		rotik R11e-5HacD Test Number: 140610				
		nna gain in dBi.	•	P for calculation. EIRP is based		MPE Calculator
			r.	compared to an isotropic radiato	dBi = dB gain	
				sity in mW/cm^2	S = power den	
3:	ıntenna Gain (dBi)	A				
2.:	dBi to dBd	dBd + 2.17 = dBi		Output Power		
29.8	ntenna Gain (dBd)	Aı	0.524240	Maximum (Watts)	5785	Tx Frequency (MHz)
32.0	minus cable (dBi)	Antenna	27.20	(dBm)	0.0	Cable Loss (dB)
		EIRP = Po(dBM) + Gain(dB)		504115.770	ulated ERP (mw)	Calcu
59.19	iated (EIRP) dBm	Rad			lated EIRP (mw)	
	` ′	ERP = EIRP - 2.17 dB			` ´	
57.02:	diated (ERP) dBm	Rac		Power density (S)	pational Limit	Осси
				F	00 mW/cm <sup>2</sup>	
				EIRP = mW/cm^2		
				$4 p r^2$	00 W/m <sup>2</sup>	
				4 p1 2	ral Public Limit	
				r (cm) EIRP (mW)	00 mW/cm <sup>2</sup>	1.0000
					$00 \text{ W/m}^2$	10.0000
		1.1310 (mW/cm2)	ncy radiation exposure limits per	FCC radio freque		
		Public Limit	Occupational Limit	Frequency (MHz)		
		f/1500	f/300	300-1,500		
		1	5	1,500-10,000		
		-		1,500 10,000		
		its ner 1 1310	frequency radiation exposure lim	FCC radio		
		_				
		Public Limit	Occupational Limit	Frequency (MHz)		
		3.856666667	19.28333333	300-1,500 (mW/cm2)		
		38.56666667	192.8333333	300-1,500 (W/m2)		
		1	5	1,500-10,000 (mW/cm2)		
		10	50	1,500-10,000 (W/m2)		
Distance	Distance	Distance	Distance	S	S	EIRP
Feet	inches	meter	cm	$W/m^2$	$mW/cm^2$	milliwatts
0.42	196.85	5.00	500.00	2.64472	0.26447	830864.653
0.33	157.48	4.00	400.00	4.13238	0.41324	830864.653
0.25	118.11	3.00	300.00	7.34646	0.73465	830864.653
0.23	108.27	2.75	275.00	8.74289	0.87429	830864.653
0.22	102.36	2.60	260.00	9.78079	0.97808	830864.653
0.21	98.43	2.50	250.00	10.57890	1.05789	830864.653
	88.58	2.25	225.00	13.06037	1.30604	830864.653
0.19		2.22		25.00051		050001.055
0.19	78 74	2.00		16 52953	1 65295	830864 653
0.17	78.74 68.90	2.00	200.00	16.52953 21.58959	1.65295 2.15896	830864.653 830864.653
0.17 0.15	68.90	1.75	200.00 175.00	21.58959	2.15896	830864.653
0.17 0.15 0.13	68.90 59.06	1.75 1.50	200.00 175.00 150.00	21.58959 29.38583	2.15896 2.93858	830864.653 830864.653
0.17 0.15 0.13 0.12	68.90 59.06 55.12	1.75 1.50 1.40	200.00 175.00 150.00 140.00	21.58959 29.38583 33.73373	2.15896 2.93858 3.37337	830864.653 830864.653 830864.653
0.17 0.15 0.13 0.12 0.11	68.90 59.06 55.12 51.18	1.75 1.50 1.40 1.30	200.00 175.00 150.00 140.00 130.00	21.58959 29.38583 33.73373 39.12314	2.15896 2.93858 3.37337 3.91231	830864.653 830864.653 830864.653 830864.653
0.17 0.15 0.13 0.12 0.11 0.10	68.90 59.06 55.12 51.18 49.21	1.75 1.50 1.40 1.30 1.25	200.00 175.00 150.00 140.00 130.00 125.00	21.58959 29.38583 33.73373 39.12314 42.31559	2.15896 2.93858 3.37337 3.91231 4.23156	830864.653 830864.653 830864.653 830864.653 830864.653
0.17 0.15 0.13 0.12 0.11 0.10 0.10	59.06 55.12 51.18 49.21 47.24	1.75 1.50 1.40 1.30 1.25 1.20	200.00 175.00 150.00 140.00 130.00 125.00 120.00	21.58959 29.38583 33.73373 39.12314 42.31559 45.91535	2.15896 2.93858 3.37337 3.91231 4.23156 4.59154	830864.653 830864.653 830864.653 830864.653 830864.653 830864.653
0.17 0.15 0.13 0.12 0.11 0.10 0.10	68.90 59.06 55.12 51.18 49.21 47.24 45.28	1.75 1.50 1.40 1.30 1.25 1.20	200.00 175.00 150.00 140.00 130.00 125.00 120.00 115.00	21.58959 29.38583 33.73373 39.12314 42.31559 45.91535 49.99479	2.15896 2.93858 3.37337 3.91231 4.23156 4.59154 4.99948	830864.653 830864.653 830864.653 830864.653 830864.653 830864.653 830864.653
0.17 0.15 0.13 0.12 0.11 0.10 0.10 0.10 0.09	68.90 59.06 55.12 51.18 49.21 47.24 45.28 43.31	1.75 1.50 1.40 1.30 1.25 1.20 1.15 1.10	200.00 175.00 150.00 140.00 130.00 125.00 120.00 115.00 110.00	21.58959 29.38583 33.73373 39.12314 42.31559 45.91535 49.99479 54.64306	2.15896 2.93858 3.37337 3.91231 4.23156 4.59154 4.99948 5.46431	830864.653 830864.653 830864.653 830864.653 830864.653 830864.653 830864.653
0.17 0.15 0.13 0.12 0.11 0.10 0.10	68.90 59.06 55.12 51.18 49.21 47.24 45.28	1.75 1.50 1.40 1.30 1.25 1.20	200.00 175.00 150.00 140.00 130.00 125.00 120.00 115.00	21.58959 29.38583 33.73373 39.12314 42.31559 45.91535 49.99479	2.15896 2.93858 3.37337 3.91231 4.23156 4.59154 4.99948	830864.653 830864.653 830864.653 830864.653 830864.653 830864.653 830864.653
0.17 0.15 0.13 0.12 0.11 0.10 0.10 0.10 0.09	68.90 59.06 55.12 51.18 49.21 47.24 45.28 43.31	1.75 1.50 1.40 1.30 1.25 1.20 1.15 1.10	200.00 175.00 150.00 140.00 130.00 125.00 120.00 115.00 110.00 100.00	21.58959 29.38583 33.73373 39.12314 42.31559 45.91535 49.99479 54.64306	2.15896 2.93858 3.37337 3.91231 4.23156 4.59154 4.99948 5.46431	830864.653 830864.653 830864.653 830864.653 830864.653 830864.653 830864.653
0.17 0.15 0.13 0.12 0.11 0.10 0.10 0.10 0.09 0.08	68.90 59.06 55.12 51.18 49.21 47.24 45.28 43.31 39.37	1.75 1.50 1.40 1.30 1.25 1.20 1.15 1.10 1.00	200.00 175.00 150.00 140.00 130.00 125.00 120.00 115.00 110.00	21.58959 29.38583 33.73373 39.12314 42.31559 45.91535 49.99479 54.64306	2.15896 2.93858 3.37337 3.91231 4.23156 4.59154 4.99948 5.46431	830864.653 830864.653 830864.653 830864.653 830864.653 830864.653 830864.653
0.17 0.15 0.13 0.12 0.11 0.10 0.10 0.10 0.09 0.08	68.90 59.06 55.12 51.18 49.21 47.24 45.28 43.31 39.37 Public Limit minimum	1.75 1.50 1.40 1.30 1.25 1.20 1.15 1.10 1.00  Occupational Limit minimum Distance	200.00 175.00 150.00 140.00 130.00 125.00 120.00 115.00 110.00  Occupational Limit minimum Distance	21.58959 29.38583 33.73373 39.12314 42.31559 45.91535 49.99479 54.64306 66.11811	2.15896 2.93858 3.37337 3.91231 4.23156 4.59154 4.99948 5.46431	830864.653 830864.653 830864.653 830864.653 830864.653 830864.653 830864.653
0.17 0.15 0.13 0.12 0.11 0.10 0.10 0.10 0.09 0.08	68.90 59.06 55.12 51.18 49.21 47.24 45.28 43.31 39.37	1.75 1.50 1.40 1.30 1.25 1.20 1.15 1.10 1.00  Occupational Limit minimum	200.00 175.00 150.00 140.00 130.00 125.00 120.00 115.00 110.00 100.00	21.58959 29.38583 33.73373 39.12314 42.31559 45.91535 49.99479 54.64306	2.15896 2.93858 3.37337 3.91231 4.23156 4.59154 4.99948 5.46431	830864.653 830864.653 830864.653 830864.653 830864.653 830864.653 830864.653

Rogers Labs, Inc. 4405 W. 259th Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-321

Phone/Fax: (913) 837-3214 Revision 1 Mikrotikls SIA Model: R11e-5HacD Test #: 140610

Test to: CFR47 (15.247) File: RFExp R11e5HacD SN: 3F1E04E68BEF/001 FCC ID#: TV7R11E5HACD

Date: July 3, 2014 Page 1 of 1