RF Exposure Calculations

Mikrotik	Calculations Model: RB SXT HG5		Test Number:	170512		
IPE Calculator			power added to the antenna gain in dBi.	170312		
INI L'Carcuator	dBi = dB gain compared to a		power added to the america gain in dist			
	S = power density in mW/cm					
	5 - power density in mvv/en	1 2			Antenna Gain (dBi)	
		Output Poure		dBd + 2.17 = dBi	dBi to dBd	
- F (MI)	5005	Output Power	0.645			2
x Frequency (MHz)	5825	Maximum (Watts)	0.643	494	Antenna Gain (dBd)	17.8
lable Loss (dD)	0.0	(dBm)		28.1	Antonno minus achlo (dBi)	20.0
Cable Loss (dB)	0.0	(авт)		28.1	Antenna minus cable (dBi)	20.0
	C 1 1 (1 PPP ()	20164 420		EIDD D (IDM) - C : (ID)		
	Calculated ERP (mw)			EIRP = Po(dBM) + Gain (dB)	D. I. (1 (FIDD) 1D	40.0
	Calculated EIRP (mw)	64549.355		TDD TYDD A 17 ID	Radiated (EIRP) dBm	48.0
		Power density (S)		ERP = EIRP - 2.17 dB	p ti t tepp in	15.0
					Radiated (ERP) dBm	45.9
		EIRP	22			
		= mW/cn	n^2			
		4 p r^2				
		EIRP (mW), r (cm)				
		zara (mr.), r (cm)				
	Occupational Limit		FCC radio frequency radiation expos			
		Frequency (MHz)	Occupational Limit (mW/cm ²)	Public Limit (mW/cm ²)		
	W/m ²	300-1,500	f/300	f/1500		
	General Public Limit	1,500-10,000	5	1		
1	mW/cm ²	, ,				
10						
10	W/M					
			70 11 6	F : Dag 102		
	Occupational Limit		IC radio frequency radiation exposur			
$0.6455 f^{0.5}$	W/m ²	Frequency (MHz)	Occupational Limit (W/m ²)	Public Limit (W/m ²)		
49.26565	W/m^2	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		
9.80254	W/m ²	300-6,000		$0.02619f^{0.6834}$		
	W/III	6,000-15,000	50			
		6,000-15,000	30	10		
EIDD	C C	C C	D	D' :	D: .	D' /
EIRP	S	S	Distance	Distance	Distance	Distance
milliwatts	mW/cm ²	W/m ²	cm	meter	inches	Feet
64549.355	0.12842	1.284	200.00	2.00	78.74	6.56
64549.355	0.16773	1.677	175.00	1.75	68.90	5.74
64549.355	0.22830	2.283	150.00	1.50	59.06	4.92
64549.355	0.32875	3.287	125.00	1.25	49.21	4.10
64549.355	0.51367	5.137	100.00	1.00	39.37	3.28
64549.355	0.63416	6.342	90.00	0.90	35.43	2.95
64549.355	0.80261	8.026	80.00	0.80	31.50	2.62
64549.355	0.91319	9.132	75.00	0.75	29.53	2.46
64549.355	1.04830	10.483	70.00	0.70	27.56	2.30
64549.355	1.42685	14.269	60.00	0.60	23.62	1.97
64549.355	1.69807	16.981	55.00	0.550	21.65	1.80
64549.355	2.05467	20.547	50.00	0.500	19.69	1.64
64549.355	3.21042	32.104	40.00	0.400	15.75	1.31
64549.355	2.53663	25.366	45.00	0.450	17.72	1.48
64549.355	3.21042	32.104	40.00	0.400	15.75	1.31
64549.355	4.71687	47.169	33.00	0.330	12.99	1.08
64549.355	5.70742	57.074	30.00	0.300	11.81	0.98
04347.333	2	2				****
			Occupational Limit minimum Distance			
		Frequency (MHz)	Occupational Limit minimum Distance	Public Limit minimum distance (meters)		
			(meters)	Public Limit minimum distance (meters)		
		Frequency (MHz) 47CFR 1.1310 RSS-102		Public Limit minimum distance (meters) 0.75 0.75		

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Revision 1

S/N: 557D0965765/608, 557C05918C44/540 Mikrotikls SIA Model: RBSXTG-5HPnD FCC ID: TV7SXTG-5HPND Test #: 170512 IC: 7442A-SXTG5HPND Test to: CFR47 15(e) and RSS-247 Date: June 11, 2017

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