**RF** Exposure Calculations

Mikrotik	Model: DynaDish 5 (RBDyn	aDishG-5HacD-US)	Test Number:	170217		
MPE Calculator			K power added to the antenna gain in dBi.	1,021,		
	dBi = dB gain compared to an isotropic radiator.					
	S = power density in mW/cm^2					
	F 2	_			Antenna Gain (dBi)	
		Output Power		dBd + 2.17 = dBi	dBi to dBd	-
x Frequency (MHz)	5785	Maximum (Watts)	0.24200		Antenna Gain (dBd)	21.
AT requercy (MILE)	5765	Witamikiii (Wittis)	0.24200		Tincina Gan (aba)	21.0
Cable Loss (dB)  5 50	0.0	(dBm)	23	.8	Antenna minus cable (dBi)	24.
	Calculated ERP (mw)	36882.077		EIRP = Po(dBM) + Gain (dB)		
	Calculated EIRP (mw)	60787.652			Radiated (EIRP) dBm	47.8
		Power density (S)		ERP = EIRP - 2.17 dB		
					Radiated (ERP) dBm	45.6
		EIRP				
		= mW/cr	n^2			
		4 p r^2				
		EIRP (mW), r (cm)				
		(, ), 1 (cm)		T : 11010		
	Occupational Limit		FCC radio frequency radiation exposu			
		Frequency (MHz)	Occupational Limit (mW/cm <sup>2</sup> )	Public Limit (mW/cm <sup>2</sup> )		
		300-1,500	f/300	f/1500		
	General Public Limit	1,500-10,000	5	1		
1	mW/cm <sup>2</sup>					
10	$W/m^2$					
	Occupational Limit		IC radio frequency radiation exposure	limits per RSS-102		
$0.6455f^{0.5}$		Frequency (MHz)	Occupational Limit (W/m²)	Public Limit (W/m²)		
49.09621	W/m²	100-6,000	$0.6455f^{0.5}$	T do le Elita (William)		
17.07021	General Public Limit	6,000-15,000	50			
$0.02619 f^{0.6834}$	W/m <sup>2</sup>	48-300	30	1.291		
				$0.02619f^{0.6834}$		
9.75649	W/m <sup>2</sup>	300-6,000	50			
		6,000-15,000	50	10		
EIRP	S	S	Distance	Distance	Distance	Distance
milliwatts	mW/cm <sup>2</sup>	W/m <sup>2</sup>	cm	meter	inches	Feet
60787.652	0.59720	5.97201	90.00	0.90	35.43	2.95
60787.652	0.75583	7.55832	80.00	0.90	31.50	2.62
60787.652	0.75383	9.59597	71.00	0.80	27.95	2.33
60787.652	1.34370	13.43702	60.00	0.60	23.62	1.97
60787.652	1.59912	15.99117	55.00	0.55	21.65	1.80
60787.652	3.02333	30.23330	40.00	0.40	15.75	1.31
60787.652	3.34995	33.49950	38.00	0.38	14.96	1.25
60787.652	3.53348	35.33475	37.00	0.37	14.57	1.21
60787.652	3.94884	39.48839	35.00	0.35	13.78	1.15
60787.652	4.44199	44.41990	33.00	0.33	12.99	1.08
60787.652	4.72395	47.23953	32.00	0.320	12.60	1.05
60787.652	5.03364	50.33640	31.00	0.310	12.20	1.02
60787.652	5.37481	53.74808	30.00	0.300	11.81	0.98
60787.652	7.73972	77.39724	25.00	0.250	9.84	0.82
60787.652	12.09332	120.93319	20.00	0.200	7.87	0.66
60787.652	21.49923	214.99234	15.00	0.150	5.91	0.49
60787.652	48.37328	483.73276	10.00	0.100	3.94	0.33
			Occupational Limit minimum Distance			
		Frequency (MHz)	(meters)	Public Limit minimum distance (meters)		
		47.CED 1 1210	0.32	0.71		
		47CFR 1.1310	0.32	0.71		

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Model: RBDynaDishG-5HacD-USr3 FCC ID: TV7DYNADISHGAC Test #: 170217 IC: 7442A-DYNADISHGAC

Test to: CFR47 15(c) and RSS-247 Date: March 28, 2017 File: RBDynaDishG-5HacD-US RFExp Page 1 of 1