MPE Calculator	Mikrotik		Test Number	101119	
MPE uses EIRP for calculatio	n. EIRP is bas	ed on TX power added	to the antenna gain in dBi.		
		compared to an isotrop			
	S = power de	nsity in mW/cm^2		Antenna Gain (dBi)	14
		Output Power	dBd + 2.17 = dBi	dBi to dBd	2.1
Tx Frequency (MHz)	5785	(Watts)	0.400000		11.83
				Antenna minus cable (dBi)	14.00
Cable Loss (dB)	0.0	(dBm)	26.02		
Calcula	ted ERP (mw)	6096.211		Radiated (EIRP) dBm	40.02
Calculate	ed EIRP (mw)	10047.546			
				Radiated (ERP) dBm	37.85
Оссир	ational Limit	Power density (S)	=		
5.00000	_	EIRP			
		$= mW/cm^{2}$	2		
Genera	l Public Limit	4 p r^2			
1.00000		[r (cm), EIRP (mV	W)]		
1.00000	mw/cm				
		ECC	lio frequency radiation exposure lim	to nor 1 1210	
				Public Limit	
		Frequency (MHz)	Occupational Limit		
		300-1,500	f/300	f/1500	
		1,500-100,000	5	1	
	FCC radio frequency radiation exposure limits per 1.1310				
		Frequency (MHz)	Occupational Limit @ Tx Freq	Public Limit @ Tx Freq	
			(mW/cm^2)	(mW/cm^2)	
		300-1,500	19.28333333	3.856666667	
		1,500-100,000	5	1	
		EIDD	D' .	D' ·	
		EIRP	Distance	Distance	S
		milliwatts	cm	inches	mW/cm
		10047.546	70.00	27.56	0.16318
		10047.546	60.00	23.62	0.22210
		10047.546	57.00	22.44	0.24609
		10047.546	55.00	21.65	0.26432
		10047.546	50.00	19.69	0.31982
		10047.546	40.00	15.75	0.49972
		10047.546	30.00	11.81	0.88840
		10047.546	29.00	11.42	0.95072
		10047.546	28.20	11.10	1.00543
		10047.546	25.00	9.84	1.27929
		10047.546	20.00	7.87	1.99890
		10047.546	15.00	5.91	3.55359
		10047.546	13.00	5.12	4.73111
		10047.546	12.70	5.00	4.95727
		10047.546	12.00	4.72	5.55249
		Frequency (MHz)	Occupational Limit minimum Distance (cm)	Public Limit minimum distance (cm)	
		300-1,500	N/A	N/A	
		1,500-10,000	12.70	28.20	
		1,500-10,000	12.70	20.20	

Rogers Labs, Inc. 4405 W. 259th Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-3214 Revision 1

MIKROTIK Model: SXT-5D Test #: 101119 Test to: FCC (15.247) File: RFExp SXT5D

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