Mikrotik		Model: SXT r2 2nD		Test Number: 120913		
MPE Calculator	MPE uses EIRP for calculation. EIRP is based on TX power added to the antenna gain in dBi.					
	dBi = dB gain compared to an isotropic radiator.					
	S = power density in mW/cm^2					
					Antenna Gain (dBi)	9
		Output Power		dBd + 2.17 = dBi	dBi to dBd	2.2
Tx Frequency (MHz)	2437	Maximum (Watts)	0.252859		Antenna Gain (dBd)	6.83
Cable Loss (dB)	0.0	(dBm)	24.03		Antenna minus cable (dBi)	9.00
	Calculated ERP (mw)	1218.649		EIRP = Po(dBM) + Gain (dB)		
	Calculated EIRP (mw)	2008.532			Radiated (EIRP) dBm	33.029
				ERP = EIRP - 2.17 dB		
					Radiated (ERP) dBm	30.859

Occupational Limit

5.00000 mW/cm^2

50.00000 W/m^2

General Public Limit

1.00000 mW/cm^2

10.00000 W/m^2

Power density (S)

EIRP
------- = mW/cm^2
4 p r^2

r (cm) EIRP (mW)

FCC radio frequency 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 limits per 1.1310		
Frequency (MHz)	Occupational Limit	Public Limit
300-1,500 (mW/cm2)	8.123333333	1.624666667
300-1,500 (W/m2)	81.23333333	16.24666667
1,500-10,000 (mW/cm2)	5	1
1,500-10,000 (W/m2)	50	10

EIRP	S	S	Distance	Distance	Distance	Distance
milliwatts	mW/cm^2	W/m^2	cm	meter	inches	Feet
2008.532	0.00064	0.00639	500.00	5.00	196.85	0.42
2008.532	0.00100	0.00999	400.00	4.00	157.48	0.33
2008.532	0.00178	0.01776	300.00	3.00	118.11	0.25
2008.532	0.00400	0.03996	200.00	2.00	78.74	0.17
2008.532	0.01598	0.15983	100.00	1.00	39.37	0.08
2008.532	0.01973	0.19733	90.00	0.90	35.43	0.08
2008.532	0.02497	0.24974	80.00	0.80	31.50	0.07
2008.532	0.03262	0.32619	70.00	0.70	27.56	0.06
2008.532	0.04440	0.44398	60.00	0.60	23.62	0.05
2008.532	0.06393	0.63934	50.00	0.50	19.69	0.04
2008.532	0.09990	0.99896	40.00	0.40	15.75	0.03
2008.532	0.17759	1.77593	30.00	0.30	11.81	0.03
2008.532	0.39958	3.99585	20.00	0.20	7.87	0.02
2008.532	0.94576	9.45763	13.00	0.13	5.12	0.01
2008.532	1.59834	15.98339	10.00	0.10	3.94	0.01
2008.532	4.43983	44.39830	6.00	0.06	2.36	0.01
2008.532	6.39336	63.93356	5.00	0.05	1.97	0.00

Frequency (MHz)	Occupational Limit minimum Distance (meters)	Occupational Limit minimum Distance (cm / inches)	Public Limit minimum distance (meters)	Public Limit minimum distance (cm / inches)
300-1,500	N/A	N/A	N/A	N/A
1,500-10,000	0.06	6 / 2.4	0.13	13 / 5.1