	Model:	051064B	Test Number:	200116		
MPE Calculator	RF Exposure 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					
	Transmitter Output power (dBm)		0.00			
	Transmitter Output power (mW)		1.00			
	Transmitter maximum Output power operating at 100% (Watts)		0.001		Antenna Gain (dBi)	1
	Output Power for 100% duty Cycle operation (Watts)		0.001		Antenna Gain (Numeric)	1.26
Tx Frequency (MHz)	915	Calcualtion power (Watts)	0.001	dBd + 2.17 = dBi	dBi to dBd	2.2
					Antenna Gain (dBd)	-1.17
Cable Loss (dB)	0.0	Adjusted Power (dBm)	0.0		Antenna minus cable (dBi)	1.00
	Calculated ERP (mw)	0.764			EIRP = Po(dBM) + Gain (dB)	
	Calculated EIRP (mw)	1.259			Radiated (EIRP) dBm	1.000
					ERP = EIRP - 2.17 dB	
					Radiated (ERP) dBm	-1.170

Power density (S) mW/cm^2 = EIRP / (4 p r^2)

r (cm) EIRP (mW)

	Occupational Limit	FCC radio frequency radiation exposure limits per 1.1310		
f/300	mW/cm^2	Frequency (MHz)	Occupational Limit (mW/cm^2)	Public Limit (mW/cm^2)
30.5	W/m^2	30-300	1	0.2
	General Public Limit	300-1,500	f/300	f/1500
f/1500	mW/cm^2	1,500-10,000	5	1
6.1	W/m^2			

	Occupational Limit			
$0.6455f^{0.5}$	W/m^2	IC radio frequency radiation exposure limits per RSS-102		
24.3	W/m^2	Frequency (MHz)	Occupational Limit (W/m^2)	Public Limit (W/m^2)
	General Public Limit	100-6,000	$0.6455f^{0.5}$	
$0.02619f^{0.6834}$	W/m^2	6,000-15,000	50	
2.8	W/m^2	48-300		1.291
		300-6,000		$0.02619f^{0.6834}$
		6,000-15,000	50	10

f = Transmit Frequecny (MHz)		f (MHz) =	915
P_T = Power Input to Antenna (mW)		P_T (mW) =	1.0000
Duty cycle (percentage of operation)		% =	100
P_A = Adjusted Power due to Duty cycle or Cable Loss (mW)		P_A (mW) =	1.00
G_N = Numeric Gain of the Antenna		GN (numeric) =	1.26
S_{20} = Power Density of device at 20cm (mW/m^2)	$S_{20}=(P_AG_N)/(4\pi R_{20})^2$	S_{20} (mW/m^2) =	0.00
S_{20} = Power Density of device at 20cm (W/m^2)	$S_{20}=(P_AG_N)/(4\pi R_{20})^2$	S_{20} (W/m^2) =	0.00
S_L = Power Density Limit (W/m^2)		S_L (W/m^2)=	2.767
R_C = Minimum distance to the Radiating Element for Compliance (cm)	$R_C=\sqrt{(P_AG_N/4\pi S_L)}$	R_C (cm) =	0.6
S_C = Power Density of the device at the Compliance Distance R_C (W/m^2)	$S_C=(P_AG_N)/(4\pi R_C)^2$	S_C (W/m^2) =	2.77
R_{20} = 20cm		R20=	20

For Complaince with Canada General Population Limits, User Manual must indicate a minimum seperation distance of 0.6 cm

Or in Meters for Complaince with Canada General Population Limits, a minimum seperation distance of 0.006 Meters