MPE uses EIRP for calcu	ılation. EIRP is ba	sed on TX power added to th	ne antenna gain in dBi.		
		•			
		npared to an isotropic radiato	r.		
	$S = power density in mW/cm^2$			Antenna Gain (dBi)	
		0		dBd + 2.17 = dBi	2.1
T., F., (MII-)	418	Output Power	0.000161	dBi to dBd	2.1 -1.1
Tx Frequency (MHz)	418	(Watts) (dBm)			-1.1
Cable Loss (dB)	0.0	(dbiii)		nna minus cable (dBi)	1.0
Cable Loss (db)	0.0		Ante	illia lillius caole (CDI)	1.0
Calo	culated ERP (mw)	0.123		Radiated (ERP) dBm	-9.09
Calculated EIRP (mw)			I	Radiated (EIRP) dBm	
	cupational Limit	Power density (S)			
1.39333	mW/cm ²	EIRP			
		$ = mW/cm^2$ $4 \pi r^2$			
	eral Public Limit	r (cm) EIRP (mW)			
0.27867	mW/cm ²	1 (411) 2111 (411)			
		FCC radio fraguence	radiation exposure limi	ts ner 1 1310	
		Frequency (MHz)	Occupational Limit	Public Limit	
		300-1,500	f/300	f/1500	
		1,500-10,000	5	1	
		FCC radio frequency	radiation exposure limi	ts per 1.1310	
				B4# 41 + 6 B	
		Frequency (MHz)	Occupational Limit @ Tx Freq (mW/cm^2)	Public Limit @ Tx Freq (mW/cm^2)	
		300-1,500	1.393333333	0.278666667	
		1,500-10,000	5	1	
		EIRP	Distance	Distance	S
		milliwatts	cm	inches	mW/cn
		0.203	50.00	19.69	0.00001
		0.203	25.00	9.84	0.00003
		0.203	20.00	7.87	0.00004
		0.203	15.00	5.91	0.00007
		0.203	10.00	3.94	0.00016
		0.203	9.00	3.54	0.00020
		0.203	8.00	3.15	0.00025
		0.203 0.203	7.00 6.00	2.76 2.36	0.00033
		0.203	5.00	1.97	0.00045
		0.203	4.00	1.57	0.00101
		0.203	3.00	1.18	0.00179
		0.203	2.00	0.79	0.00404
		0.203	1.00	0.39	0.01614
		0.203	0.90	0.35	0.01993
		0.203	0.75	0.30	0.02869
		0.203	0.50	0.20	0.06456
		0.203	0.25	0.10	0.25824
		0.203	0.24	0.09	0.28021
			Occupational Limit	Public Limit	
			minimum Distance	minimum distance	
		Frequency (MHz)	(cm)	(cm)	
		300-1,500	N/A	0.24	
		1,500-10,000	N/A	N/A	

Research & Development Corporation

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Revision 1

Model: TX-1 Test #: 081104

Test to: FCC Parts 2 and 15c (15.231), RSS-210 RFExp WVIRDCTX1

FCC ID#: WVI-RDCTX1

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