MPE Calculation page

		Model: 33011009 FTU		110223		
VekTek Inc. MPE Calculator Tx Frequency (MHz)	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.					
	_	nsity in mW/cm^2				
	•	•			Antenna Gain (dBi)	
		Output Power		dBd + 2.17 = dBi	dBi to dBd	2
	915	Maximum (Watts)	0.000104		Antenna Gain (dBd)	
in requestey (initial)		1/12/2011/2011/	0.000101			
Cable Loss (dB)	0.0	(dBm)	-9.83	Ante	enna minus cable (dBi)	1.0
Calculated ERP (mw)		0.079		EIRP = Po(dBM) + Ga		
Calculat	ted EIRP (mw)	0.131			Radiated (EIRP) dBm	-8.82
		D 1it (C)		ERP = EIRP - 2.17 dB		
Оссира	tional Limit	Power density (S) EIRP			Radiated (ERP) dBm	-10.99
3.05000	mW/cm ²	= mW/cm^2				
30.50000	W/m ²	4 p r^2				
	Public Limit	r (cm) EIRP (mW)				
	mW/cm ²	- ()				
6.10000	W/m ²					
		FCC radio frequency	radiation exposure l			
		Frequency (MHz)	Occupational Limit	Public Limit		
		300-1,500	f/300	f/1500		
		1,500-10,000	5	1		
		FCC radio frequency	y radiation exposure l	limits per 1.1310		
			Occupational Limit	Public Limit @ Tx		
		Frequency (MHz)	@ Tx Freq	Freq (mW/cm ²)		
		300-1,500 (mW/cm2)	3.05	0.61		
		300-1,500 (W/m2)	30.5	6.1		
		1,500-10,000 (mW/cm2)	5	1		
		1,500-10,000 (W/m2)	50	10		
TIP D			5	5 .	n: .	D
EIRP	S	S	Distance	Distance	Distance	Distance
milliwatts	mW/cm ²	W/m^2	cm	meter	inches	Feet
0.131	0.00010	0.00104	10.00	0.10	3.94	0.01
0.131	0.00013	0.00129	9.00	0.09	3.54	0.01
0.131	0.00016	0.00163	8.00	0.08	3.15	0.01
0.131	0.00021	0.00213	7.00	0.07	2.76	0.01
0.131	0.00029	0.00289	6.00	0.06	2.36	0.01
0.131	0.00042	0.00417	5.00	0.05	1.97	0.00
0.131	0.00065	0.00651	4.00	0.04	1.57	0.00
0.131	0.00116	0.01158	3.00	0.03	1.18	0.00
0.131	0.00261	0.02605	2.00	0.02	0.79	0.00
0.131	0.01042	0.10421	1.00	0.01	0.39	0.00
0.131	0.01287	0.12865	0.90	0.009	0.35	0.001
0.131	0.01628	0.16283	0.80	0.008	0.31	0.001
0.131	0.02127	0.21267	0.70	0.007	0.28	0.001
0.131	0.02895	0.28947	0.60	0.006	0.24	0.001
0.131	0.04168	0.41684	0.50	0.005	0.20	0.000
0.131	0.06513	0.65132	0.40	0.004	0.16	0.000
0.131	0.11579	1.15789	0.30	0.003	0.12	0.000
			Occupational Limit	Occupational Limit	Public Limit minimum	Public Limit minimu
			minimum Distance	minimum Distance	distance (meters)	distance (cm /
			(meters)	(cm / inches)		inches)
		Frequency (MHz)			I	
		Frequency (MHz)				
		300-1,500	N/A	N/A	N/A	N/A

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Revision 1

Vektek, Inc. Model: 33011009 Test #: 101229

Test to: FCC Parts 2, 15C, RSS-210

File: RFExp 33011009

FCC ID#: YVC33011009 IC: 9287A-33011009

SN: EUT 0

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