MPE Calculation page

		P for calculation. EIRP is based compared to an isotropic radiate	on TX power added to the ante	enna gain in dBi.		
	_		or.			
	s = power den	nsity in mW/cm^2			National Cala (4D)	3.
		Outsut Dosses			Antenna Gain (dBi)	
Т., Т., (А.П.)	2427	Output Power	0.000500	dBd + 2.17 = dBi	dBi to dBd	
Tx Frequency (MHz)	2437	Maximum (Watts)	0.000509	A	ntenna Gain (dBd)	1.2
Cable Loss (dB)	0.0	(dBm)	-2.93	Antenna	a minus cable (dBi)	3.4
Calculate	ad FRD (mu)	0.676		EIRP = Po(dBM) + Gain (dB)		
Calculated ERP (mw) Calculated EIRP (mw)					liated (EIRP) dBm	0.47
Calculato	d End (mw)	1.115		ERP = EIRP - 2.17 dB	llated (Effet) dibin	0.47
Occupat	tional Limit	Power density (S)			diated (ERP) dBm	-1.69
5.00000 n	_					2.00
		EIRP				
7 0000000		= mW/cm^2 4 p r^2				
	Public Limit	4 p r 2				
1.00000 n	mW/cm ²	r (cm) EIRP (mW)				
7 00000.01	W/m^2					
		FCC radio freque	ency 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 lim	its per 1.1310		
		Е ОДІ-)	Oti11 iit	Dodatio I took		
		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
1.115	0.00000	0.00000	500.00	5.00	196.85	0.42
1.115	0.00000	0.00001	400.00	4.00	157.48	0.33
1.115	0.00000	0.00001	300.00	3.00	118.11	0.25
1.115	0.00000	0.00002	200.00	2.00	78.74	0.17
1.115	0.00000	0.00003	175.00	1.75	68.90	0.15
1.115	0.00000	0.00004	150.00	1.50	59.06	0.13
1.115	0.00001	0.00006	125.00	1.25	49.21	0.10
1.115	0.00001	0.00009	100.00	1.00	39.37	0.08
1.115	0.00001	0.00011	90.00	0.90	35.43	0.08
1.115	0.00001	0.00014	80.00	0.80	31.50	0.07
1.115	0.00002	0.00018	70.00	0.70	27.56	0.06
1.115	0.00002	0.00025	60.00	0.60	23.62	0.05
1.115	0.00004	0.00035	50.00	0.50	19.69	0.04
1.115	0.00014	0.00142	25.00	0.25	9.84	0.02
1.115	0.00089	0.00887	10.00	0.10	3.94	0.01
1.115	0.00355	0.03548	5.00	0.05	1.97	0.00
1.115	0.08870	0.88698	1.00	0.01	0.39	0.00
			Occupational Limit minimum Distance	Occupational Limit minimum Distance	Public Limit	Public Limit minimum distand
		Frequency (MHz)	(meters)	(cm / inches)	distance (meters)	(cm / inches)
		300-1,500	N/A	N/A	N/A	N/A

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Phone/Fax: (913) 837-3214 Revision 1 Digital Ally Model: FirstVu

Test #: 140220A

Test to: CFR47 (15.247), RSS-210 File: RFExp FirstVu

SN: 05D0-04FD

FCC ID: WRZ-FIRSTVU IC ID: 7945A- FIRSTVU Date: March 28, 2014

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