MPE Calculation page

MPE Calculation	1 0				
MPE Calculator	Trig Avionics		Test Number	090507	
MPE uses EIRP for cal				again in dBi.	
		compared to an isotro	ppic radiator.		
	S = power de	nsity in mW/cm^2		Antenna Gain (dBi)	2.1
	4000	-	dBd + 2.17 = dBi	dBi to dBd	2.1
Tx Frequency (MHz)	1090	(Watts)			0.03
				ntenna minus cable (dBi)	2.20
Cable Loss (dB)	0.0	(dBm)	51.5	0	
C-11-	+- 4 EDD ()	142220.000		D - 4'-+- 4 (EIDD) 4D	52.70
Calculated ERP (mw) Calculated EIRP (mw)				Radiated (EIRP) dBm	53.70
Calculat	ed EIRP (mw)	254410.051		Radiated (ERP) dBm	51.53
Ocean	pational Limit			Radialed (ERP) dbin	31.33
5.00000			1 1 (0)		
5.00000	mW/cm ²	Power EIRP	density (S) =		
~			= mW/cm^2		
	l Public Limit	4 p r^2			
1.00000	mW/cm ²		, EIRP (mW)]		
		F00 # 4	41.1	# 5 4 4040	
			ency radiation exposu		
		Frequency (MHz)	Occupational Limit		
		300-1,500	f/300	f/1500	
		1,500-10,000	5	1	
		ECC 1 C	41.7	f 5 1 1210	
		FCC radio frequency radiation exposure limits per 1.1310			
			Occupational Limit (Public Limit @ Tx	
		Frequency (MHz)	Tx Freq (mW/cm^2) Freq (mW/cm^2)	
		300-1,500	3.633333333	0.726666667	
		1,500-10,000	5	1	
		EIRP	Distance	Distance	S
		milliwatts	cm	inches	mW/cm
		234416.651	300.00	118.11	0.21
		234416.651	250.00	98.43	0.30
		234416.651	200.00	78.74	0.47
		234416.651	175.00	68.90	0.61
		234416.651	162.00	63.78	0.71
		234416.651	140.00	55.12	0.95
		234416.651	135.00	53.15	1.02
		234416.651	130.00	51.18	1.10
		234416.651	120.00	47.24	1.30
		234416.651	110.00	43.31	1.54
		234416.651	100.00	39.37	1.87
		234416.651	90.00	35.43	2.30
		234416.651	80.00	31.50	2.91
		234416.651	72.00	28.35	3.60
		234416.651	70.00	27.56	3.81
		I	Occupational Limit	Public Limit minimum	
		Frequency (MHz)	minimum Distance		
			(cm)	distance (cm)	
		300-1,500 1,500-10,000			

Rogers Labs, Inc. 4405 West 259th Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-321

Phone/Fax: (913) 837-3214 Revision 1 Trig Avionics Limited Model: TT21, P/N 00675-00

Test #: 090507

Test to: FCC Parts 2, 15 and 87

File RFExp 0067500

SN: 00111

FCC ID#: VZI00675-00

Page 1 of 1

Date: May 26, 2009