	Model: A04101			Test Number: 200615			
MPE Calculator	RF Exposure uses EIRP for calculation. EIRP is based on			TX power added to the antenna ga	in in dBi.		
	dBi = dB gain compared to an isotropic radiator.						
	$S = power density in mW/cm^2$			5.0			
	Transmitter Output power (mw			0.005			
Output Power for % duty Cycle (Watts)			0.005		Antenna Gain (dBi)	3	
Output Power for 100% duty Cycle operation (Watt			ion (Watts)	0.005	Antenna Gain (Numeric)		2.00
T. F	2437 Calcualtion power (Watt		····· (W-#-)	0.01			2.2
TX Frequency (WIFIZ)			wer (watts)	0.01	dBd + 2.17 = dB1	аы ю ава	2.2
						Antenna Gain (dBd)	0.83
Cable Loss (dB)	0.0 Adjusted Power (dBn		ower (dBm)	6.99 Anten		na minus cable (dBi)	3.00
	Colculated EDD (mm)	Calculated EPP (mu) 6.053			EIDD - D	enna Gain (Numeric)	2.00
	Calculated ERP (IIIW)	0.055			EIRP = PO	o(dBM) + Galii (dB) adjated (FIRP) dBm	9 990
					I. I	ERP = EIRP - 2.17	dB
	Power density (S) mW/cm ² = $\frac{\text{EIRP}}{4 \text{ pr}^{3/2}}$				F	Radiated (ERP) dBm	7.820
		4 p 1 2					
	r (cm) EIRP (mW)						
					1 1010		
	Occupational Limit	1	FCC radio frequency radiation exposure limits per 1.1310				
C	mW/cm ²	Frequency (MHZ)		Occupational Limit (mW/cm ²)	Public Limit (mW/cm ²)		
50	W/m ² 30-300)	1	0.2		
	General Public Limit 300-1,500		00	£/300	f/1500		
I	mW/cm ²	1,500-10,	000	5	I		
10	W/m ²						
	Oceanna tioneal I insit						
0 (155 0.5	Occupational Limit		C radio fra	wancy radiation avposure limits per	PSS 102		
0.64555	W/m			Juency radiation exposure minus per KSS-102			
31.9	W/m²	Frequency (MHz)		Occupational Limit (W/m ²)	Public Limit (W/m ²)		
0.02619 <i>f</i> ^{0.6834} 5.4	General Public Limit	100-6,000		$0.6455f^{0.3}$			
	W/m ²	6,000-15,000		50			
	W/m ²	48-300			1.291		
		300-6,0	00		$0.02619f^{0.6834}$		
		6,000-15,	000	50	10		
6 m 5 m AU	\				(AUL)	2427	MI
I = I ransmit Frequecny (MHZ)					f(MHz) =	2437	IVIHZ
\mathbf{P}_{T} = rower input to Antenna (mw)					$P_{T}(mw) =$	5.0000	mw
Duty cycle (percentage of operation)					% =	100	%0
$A_{A} = Augustee Tower une to Duty cycle of Cable LOSS (IIIW)$					$P_A(mw) =$	5.00	inw .
$O_N = 1$ varies will of the Antenna $S_n = Pouror Density of device at 20 am (mW/m^2)$				$(\mathbf{p}, \mathbf{C})/(4, \mathbf{p})^2$	GN(numeric) =	2.00	
S ₂₀ = 1 over Lensity of device at 20cm (mw/m)				$S_{20} = (P_A G_N)/(4\pi R_{20})$	$S_{20} (mW/m) =$	0.00	mW/m
S_{20} = Power Density of device at 20cm (W/m ⁻)				$S_{20} = (P_A G_N)/(4\pi R_{20})$	$S_{20} (W/m) =$	0.02	W/m ²
S _L = Power Density Limit (W/m ²)					$S_L (W/m^2) =$	5.404	W/m ²
R _C = Minimum distance to the Radiating Element for Compliance (cm)				$R_C = \sqrt{(P_A G_N / 4\pi s_1)}$	$R_{\rm C}$ (cm) =	1.2	cm
S_C = Power Density of the device at the Compliance Distance R_C (W/m ²)				$S_{C} = (P_{A}G_{N})/(4\pi R_{C})^{2}$	$S_C (W/m^2) =$	5.40	W/m ²
R ₂₀ = 20cm					R20=	20	cm
	E O E MO			TT M. I. ST.P. S. TT			
	For Complaince with Canada General Population Limit			a Conorol Dopulation Limit.	num seperation distance of	1.2	cm Matars
Or in meters for Companice with Canada General Population Limits, a minimum seperation distance of						0.01	wieters

Rogers Labs, Inc. 4405 West 259th Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-3214 Revision 1 Garmin International, Inc. Model: A04101 Test: 200615 Test to: CFR47 15C, RSS-210, RSS-247 File: A04101 RFExp

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