MPE Calculator	Model: 7004 RF Exposure uses EIRP for calculation. EIRP is based on 7			Test Number: 180712			
				TX power added to the antenna gain in dBi.			
	dBi = dB gain compared to an	<u>^</u>	or.				
	S = power density in mW/cm		0.04 (111	0.0150			
Transmitter maximum Output power operating at 100% (Watts) Percent Duty Cycle operation (%)						1.7	
					A mts	Antenna Gain (dBi)	1.5
	Output Power for 100% duty Cycle operation (Wa					enna Gain (Numeric)	1.41
Tx Frequency (MHz)	2437 Calcualtion power		wer (watts)	0.0032	dBd + 2.17 = dBi	dBi to dBd Antenna Gain (dBd)	2.2 -0.67
Cable Loss (dB)	0.0 Adjusted Power (dBn		ower (dBm)	5.05	Antenna minus cable (dBi)		-0.67
	0.0 Adjusted i Ower (dBir		Jwei (ubiii)	5.05	Anten	na minus cable (ubi)	1.50
	Calculated ERP (mw) 2.74		0.00	FIRP - Pe	o(dBM) + Gain (dB)		
	Calculated EIRP (mw) 4.52		0.00			6.551	
			0.00	ERP = EIRP - 2.17 dB			
	EIRP					Radiated (ERP) dBm	4.381
	Power density (S) mW/e					(ind) dom	
		4 p r^2					
	r (cm) EIRP (mW)						
5 50	Occupational Limit FCC radio f		requency radiation exposure limits p	per 1.1310			
	5 mW/cm ²	Frequency (MHz)		Occupational Limit (mW/cm ²)	Public Limit (mW/cm ²)		
		30-300		1	0.2		
	General Public Limit	300-1,500		f/300	f/1500		
	mW/cm ²	1,500-10,000		5	1		
10		1,500-10,000		3	1		
II.	W/m						
	Occupational Limit						
$0.6455f^{0.5}$		IC radio free		quency radiation exposure limits per	- RSS-102		
, 0.6455 <i>f</i> ** 39.7							
		Frequency (MHz)		Occupational Limit (W/m ²)	Public Limit (W/m ²)		
	General Public Limit	100-6,000		$0.6455 f^{0.5}$			
0.02619 <i>f</i> ^{0.6834} W/m ²		6,000-15,000		50			
5.4	W/m ²	48-300			1.291		
		300-6,000			$0.02619f^{0.6834}$		
		6,000-15,000		50	10		
= Transmit Frequecny (MHz	z)				f (MHz) =	2437	
$P_T =$ Power Input to Antenna (mW)					$P_{T}(mW) =$	16.0000	
Duty cycle (percentage of operation)					% =	0.2	
$P_A = Adjusted Power due to Duty cycle or Cable Loss (mW)$					$P_A(mW) =$	3.20	
G _N = Numeric Gain of the Antenna					GN (numeric) =	1.41	
S_{20} = Power Density of device at 20cm (W/m ²)				$S_{20} = (P_A G_N) / (4\pi R_{20})^2$	$S_{20} (W/m^2) =$	0.01	
$S_L = Power Density Limit (W/m^2)$					$S_L (W/m^2) =$	5.404	
•		(cm)		$R_{C} = \sqrt{(P_{A}G_{N}/4\pi s_{L})}$	$R_{\rm C}$ (cm) =	0.8	
$R_{\rm C}$ = Minimum distance to the Radiating Element for Compliance (cm)							
$S_{\rm C}$ = Power Density of the device at the Compliance Distance $R_{\rm C}$ (W/m ²)				$S_{\rm C} = (P_{\rm A}G_{\rm N})/(4\pi R_{\rm C})^2$	$S_{\rm C} (W/m^2) =$	5.40	
$R_{20} = 20 \text{cm}$					R20=	20	
	Excount: 11.0	1. C 1D	1	The Manual and All Parks		0.02	
	For Complaince with Cana	ada General Popu	lation Limits	s, User Manual must indicate a mini	mum seperation distance of	0.82 c	m

Rogers Labs, Inc. 4405 W. 259th Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-3214 Revision 1 FitBark Inc. Model: 7004 Test: 180712 Test to: CFR47 15C, RSS-Gen RSS-247 File: FitBark 7004 MPE Exclusion SN: ENG1 / ENG2 FCC ID: 2ADEQ7004 IC: 12329A-7004 Date: November 26, 2019 Page 1 of 1