	цили.	Δ04336		Test Number	r 220223				
MPE Calculator	HVIN: A04336 RF Exposure uses EIRP for calculation. EIRP is based on '								
	dBi = dB gain compared to a			,					
	S = power density in mW/cm								
Output Power for %	Tra	ansmitter Output p	ower (mW)	4.1					
	Transmitter Output power (W) duty Cycle operation (Watts) 100			0.004					
				0.004		Antenna Gain (dBi)	3.9		
	Output Power for 100% duty Cycle operation (Watts			0.004	Ant	enna Gain (Numeric)	2.45		
Tx Frequency (MHz)	2441	Calculation power (Watts)		0.004	dBd + 2.17 = dBi		2.17		
						Antenna Gain (dBd)			
Cable Loss (dB)	0.0	Adjusted Po	ower (dBm)	6.09		na minus cable (dBi)	3.90		
	Calculated EDD (may) 6 052					enna Gain (Numeric)	2.45		
	Calculated ERP (mw) 6.053 Calculated EIRP (mw) 9.977				o(dBm) + Gain (dB) adiated (EIRP) dBm	9.990			
				IN The second se	ERP = EIRP - 2.17				
	Power density (S) mW/cm ² = EIRP 4 p r ²				1	Radiated (ERP) dBm			
	r (cm) EIRP (mW)								
	` ' ` '								
	Occupational Limit	I	CC radio fi	equency radiation exposure limits	per 1.1310				
8.136666667	mW/cm ²	Frequency (MHz)		Occupational Limit (mW/cm ²)	Public Limit (mW/cm ²)				
81.4	W/m ²	30-300)	1	0.2				
	General Public Limit 300-1,500			f/300	f/1500				
1.627333333	mW/cm ²	1,500-10.		5	1				
16.3	W/m ²	2,500 10,			•				
10.3	w/m								
	Occupational Limit								
0.6455 (0.5	W/m ²		C radio free	uency radiation exposure limits pe	r RSS_102				
$0.6455 f^{0.5}$ 31.9					1				
	W/m ²	Frequency (MHz)		Occupational Limit (W/m²)	Public Limit (W/m ²)				
	General Public Limit	100-6,0		$0.6455f^{0.5}$					
$0.02619f^{0.6834}$	W/m ²	6,000-15,000		50					
5.41	W/m^2 48-300)		1.291				
		300-6,0	00		$0.02619f^{0.6834}$				
		6,000-15,	.000	50	10				
						General Public	Occupational		
f = Transmit Frequency (MHz)					f (MHz) =	2441	2441	MHz	
P _T = Power Input to Antenna (mW)					P_T (mW) =	4.0644	4.0644	mW	
Duty cycle (percentage of operation)				% =	100			
P _A = Adjusted Power due to Duty cy					P _A (mW) =	4.06		mW	
G _N = Numeric Gain of the Antenna					GN (numeric) =	2.45		numeric	
S ₂₀ = Power Density of device at 20cm (mW/m ²)				$S_{20}=(P_AG_N)/(4\pi R_{20})^2$	$S_{20} (mW/m^2) =$	0.00		mW/m ²	
						0.02		W/m ²	
S_{20} = Power Density of device at $20cm(W/m^2)$				$S_{20} = (P_A G_N)/(4\pi R_{20})^2$	$S_{20} (W/m^2) =$				
S_L = Power Density Limit (W/m ²) FCC					$S_L (W/m^2)=$	16.273	81.367		
$S_L = Power Density Limit (W/m^2) Canada$					$S_L (W/m^2)=$	5.410	31.892	W/m ²	
$R_C = Minimum distance to the Radiating Element for Compliance (cm)$		FCC		$R_C = \sqrt{(P_A G_N / 4\pi s_L)}$	R_{C} (cm) =	0.7	0.3	cm	
R _C = Minimum distance to the Radia	Canada		$R_C = \sqrt{(P_A G_N / 4\pi S_L)}$	R_{C} (cm) =	1.2	0.5	cm		
S _C = Power Density of the device at	n²) FCC		$S_C = (P_A G_N)/(4\pi R_C)^2$	$S_C(W/m^2) =$	16.27	81.37	W/m ²		
S_C = Power Density of the device at			$S_C = (P_A G_N)/(4\pi R_C)^2$	$S_C(W/m^2) =$	5.41		W/m ²		
$R_{20} = 20$ cm	q	,		(* AON)* (*(')	R20=	20		cm	
				, User Manual must indicate a min a General Population Limits, a min	imum separation distance of	1.2			
	31 M 19100		June		The state of	5.01			
Summary: Standalone MPE Cal	culations and Summary					Public Limit		Public	
·	Tx Duty Cycle (%)	Tx Frequency	(MHz)	Power Total (mW)	Antenna Gain (numeric)	$S_L (W/m^2)$	S ₂₀ (W/m ²)	R _C (cm)	S _C (W/m ²)
FCC	100	2441		4	2.45	16.273	0.02	0.7	16.27
Canada	100	2441		4	2.45	5.410	0.02	1.2	5.41
				Limit	Overall Minimum (cm)	Overall Minimum (in	iches)		
	Public		Occupational						
	FCC (cm)	0.7		0.3					
	FCC (inches)	1.0		1.0					
	Canada (cm)	1.2		0.5					
	Canada (inches)	1.0		1.0					
	Canada (niches)								
Overall Minimur	m Limit Public			Overall Minumu Limi	* *				
Overall Minimur 2					it Occuppational 1 cm 1 inches				

 Rogers Labs, Inc.
 Garmin International, Inc.
 SN's: 7B1000067, 7B1000062

 4405 West 259th Terrace
 HVIN: A04336
 FCC ID: IPH-04336

 Louisburg, KS 66053
 Test: 220223
 IC: 1792A-04336

Phone/Fax: (913) 837-3214 Test to: CFR47 15C, RSS-210, RSS-247 Date: March 20, 2022

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