	HVIN:	GMN-01322		Test Number: 220801					
MPE Calculator	calculation. EIRP is based on		TX power added to the antenna gai	in in dBi.					
	dBi = dB gain compared to a								
S = power density in the second sec		/cm^2							
	Transmitter Out		ower (mW)	8.4					
	Transmitter Output p		power (W)	0.008					
Output Power for %	duty Cycle operation (Watts) 10		100	0.008		Antenna Gain (dBi)	-5		
Output Power for 100%   Tx Frequency (MHz) 2442		duty Cycle operation (Watts)		0.008	Ant	enna Gain (Numeric)	0.32		
		Calculation po	wer (Watts)	0.008	dBd + 2.17 = dBi	dBi to dBd	2.17		
						Antenna Gain (dBd)	-7.17		
Cable Loss (dB)	0.0	Adjusted Po	ower (dBm)	9.24	Anter	ina minus cable (dBi)	-5.00		
					Ant	enna Gain (Numeric)	0.32		
	Calculated ERP (mw) 1.611 Calculated EIRP (mw) 2.655				EIRP = P	o(dBm) + Gain (dB)			
					R	adiated (EIRP) dBm	4.240		
		EIRP				ERP = EIRP - 2.17	dB		
	Power density (S) mW/	/cm <sup>2</sup> =			ł	Radiated (ERP) dBm	2.070		
		4 p r^2							
	r (cm) FIPP (mW)								
		,							
			]						
	Occupational Limit		FCC radio fi	requency radiation exposure limits p	er 1.1310				
5	mW/cm <sup>2</sup>	Frequency (	(MHz)	Occupational Limit (mW/cm <sup>2</sup> )	Public Limit (mW/cm <sup>2</sup> )				
50.0	W/m <sup>2</sup>	30-300		1	0.2				
	General Public Limit	300-1 5	00	f/300	f/1500				
1	mW/cm <sup>2</sup>	1 500-1,5	000	5	1				
10.0	11w/cm	1,500-10	,500	5	-				
10.0	W/m <sup>-</sup>								
	Occupational Limit								
$0.6455 t^{0.5} \qquad Wt/m^2$		IC radio fre		uency radiation exposure limits per	PSS-102				
0.04555				R35-102					
51.9 W/m <sup>-</sup>		Fiequency (MHZ)		Occupational Limit (W/m <sup>2</sup> )	Public Limit (W/m <sup>2</sup> )				
	General Public Limit	100-6,0	00	$0.6455f^{0.3}$					
$0.02619f^{0.6834}$	W/m <sup>2</sup> 6,000-15,000		,000	50					
5.41	W/m <sup>2</sup>	48-300			1.291				
		300-6,000			$0.02619 f^{0.6834}$				
		6,000-15	,000	50	10				
						General Public	Occupational		
f = Transmit Frequency (MHz)					f (MHz) =	2442	2442	MHz	
P <sub>T</sub> = Power Input to Antenna (mW)					$P_T (mW) =$	8.3946	8.3946	mW	
Duty cycle (percentage of operation)					% =	100	100	%	
$P_A = Adjusted$ Power due to Duty cycle or Cable Loss (mW)					$P_A(mW) =$	8.39	8.39	mW	
G <sub>N</sub> = Numeric Gain of the Antenna					GN (numeric) =	0.32	0.32	numeric	
$S_{20}$ = Power Density of device at 20cm (mW/m <sup>2</sup> )				$S_{20} = (P_A G_N)/(4\pi R_{20})^2$	$S_{20} (mW/m^2) =$	0.00	0.00	mW/m <sup>2</sup>	
$S_{20}$ = Power Density of device at 20cm (W/m <sup>2</sup> )				$S_{20} = (P_A G_N) / (4\pi R_{20})^2$	$S_{20} (W/m^2) =$	0.01	0.01	W/m <sup>2</sup>	
$S_{L} = Power Density Limit (W/m2) FO$				$S_{I} (W/m^2) =$	10.000	50.000	W/m <sup>2</sup>		
$S_{I} = Power Density Limit (W/m2) Ca$				$S_r (W/m^2) =$	5.412	31.898	W/m <sup>2</sup>		
Ro - Minimum distance to the Radia	FCC		$\mathbf{R} = \sqrt{\mathbf{R} \cdot \mathbf{C}}$	$\mathbf{R}_{-}(\mathbf{cm}) =$	0.5	0.2	cm		
D = Minimum distance to the Patients	Canada		$\mathbf{D} = \sqrt{\mathbf{D} \cdot \mathbf{C} \cdot \mathbf{U}}$		0.3	0.2	am		
$n_{\rm C} = minimum$ distance to the Radia			$\mathbf{N}_{\mathbf{C}} = \mathbf{V}(\mathbf{P}_{\mathbf{A}}\mathbf{O}_{\mathbf{N}}/4\pi\mathbf{S}_{1})$	$\kappa_{\rm C}$ (cm) =	0.6	0.3	ciii		
$S_C =$ Power Density of the device at	a <sup>+</sup> ) FCC		$S_C = (P_A G_N)/(4\pi R_C)^2$	$S_C(W/m) =$	10.00	50.00	W/m²		
$S_C =$ Power Density of the device at	the Compliance Distance R <sub>C</sub> (W/n	n <sup>-</sup> ) Canada		$S_{C} = (P_{A}G_{N})/(4\pi R_{C})^{2}$	$S_{\rm C} (W/m^2) =$	5.41	31.90	W/m <sup>2</sup>	
R <sub>20</sub> = 20cm					R20=	20	20	cm	
	For Compliance with Constant Constant Description Links			Una Manualana († 15. d. – † †					
	aua General Popu	uation Limits	Oser Ivianual must indicate a mining General Population Limits a mining	num separation distance of	0.6	Meters			
	Of in Meters for Compliance with Canada			a General i Opuladoli Lillius, a lilliu	ium separation distance of	0.01	IVICICIS		
Summary: Standalone MPF Ca	culations and Summary					Public Limit		Public	
	Tx Duty Cycle (%)	Tx Frequency	(MHz)	Power Total (mW)	Antenna Gain (numeric)	$S_{\rm r}$ (W/m <sup>2</sup> )	$S_{aa}$ (W/m <sup>2</sup> )	R <sub>c</sub> (cm)	$S_{c}(W/m^2)$
FCC	100	2442	(1111)	8	0.32	10,000	0.01	0.5	10.00
Canada	100	2442		8	0.32	5.412	0.01	0.6	5.41
				Limit Overall Minimum (cm)		Overall Minimum (ir	iches)		
	FCC (cm) Public 0.5		;	Occupational		`			
				0.2					
	FCC (inches) 1.0			1.0					
	Canada (cm) 0.6			0.3					
	Canada (inches)	1.0		1.0					
Overall Minimu			Overall Minumu Limit	Occuppational					
1 cm				1	cm				
1	inches			1	inches				

Rogers Labs, Inc. 4405 West 259<sup>th</sup> Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-3214 Revision 1 Garmin International, Inc. SN Model: GMN-01322 Test: 220801 Test to: CFR47 15C, RSS-210, RSS-247 File: GMN01322 RFExp

SN's: 3414709308/ 3425762876 FCC ID: IPH-0215411 IC: 1792A-0215411 247 Date: January 23, 2023 Page 1 of 1