	Model:	A04475		Test Number:	230301				
MPE Calculator	RF Exposure uses EIRP for calculation. EIRP is based or dBi = dB gain compared to an isotropic radiator.			TX power added to the antenna ga	in in dBi.				
	S = power density in mW/cm								
	Transmitter Output power (dBn								
0	Transmitter Output power (mW						_		
1 3 3 1 1		100			Antenna Gain (dBi)				
	Output Power for 100% duty Cycle operate		n (Watts)	0.01	Ant	enna Gain (Numeric)	3.16		
Tx Frequency (MHz)	2437	2437 Calcualtion power (Wat		0.01	dBd + 2.17 = dB		2.2		
						Antenna Gain (dBd)	2.83		
Cable Loss (dB)	0.0	O.0 Adjusted Power (dBm		9.28	Antenna minus cable (dBi)		5.00		
	Colculated EDD (mm) 16 255				EIRP = Po(dBM) + Gain (dB)				
	Calculated ERP (mw) 16.255				Radiated (EIRP) dBm		14 200		
	Calculated EIRP (mw) 26.792			ERP = EIRP - 2.17					
	EIRP				Radiated (ERP) dBm				
	Power density (S) mW/	/cm ² = 4 p r^2			'	Radiated (ERF) dBill	12.110		
	r (cm) FIPP (mW)								
	r (cm) EIRP (mW)								
	Occupational Limit	FC	C radio t	requency radiation exposure limits p	per 1 1310				
50		Frequency (M			2				
				Occupational Limit (mW/cm ²)	Public Limit (mW/cm²)				
		30-300		1	0.2				
	General Public Limit	300-1,500		f/300	f/1500				
	mW/cm ² 1,500-10,00)()	5	1				
10	W/m ²								
	Occupational Limit								
$0.6455 f^{0.5}$	5 W/m ² IC radio from		radio fre	equency radiation exposure limits per RSS-102					
39.7	W/m ² Frequency (MHz)		Hz)	Occupational Limit (W/m ²)	Public Limit (W/m ²)				
	General Public Limit 100-6,000		$0.6455f^{0.5}$						
$0.02619f^{0.6834}$	W/m ²	6,000-15,00	00	50					
5.4	W/m² 48-300				1.291				
5.4	W/III								
		300-6,000		50	$0.02619f^{0.6834}$				
		6,000-15,00)()	50	10				
f = Transmit Frequeeny (MHz	7)				f (MHz) =	2/27	MHz		
P _T = Power Input to Antenna (mW)									
					P _T (mW) = % =	-			
Duty cycle (percentage of operation) PA = Adjusted Power due to Duty cycle or Cable Loss (mW)									
-					P _A (mW) = GN (numeric) =				
G _N = Numeric Gain of the Antenna			G (D G)//4 D) ²	·		numeric 2			
S_{20} = Power Density of device at 20cm (mW/m ²)			$S_{20} = (P_A G_N)/(4\pi R_{20})^2$	$S_{20} (mW/m^2) =$					
S_{20} = Power Density of device at 20 cm (W/m^2)			$S_{20} = (P_A G_N)/(4\pi R_{20})^2$	$S_{20} (W/m^2) =$					
$S_L = Power Density Limit (W/m^2)$				$S_L (W/m^2)=$					
$R_C = M$ inimum distance to the Radiating Element for Compliance (cm)			$R_C = \sqrt{(P_A G_N / 4\pi s_L)}$	R_{C} (cm) =					
S_C = Power Density of the device at the Compliance Distance $R_C (W/m^2)$		$S_C = (P_A G_N)/(4\pi R_C)^2$	$S_C(W/m^2) =$						
R ₂₀ = 20cm				R20=					
	For Complaince with Canada Canaral Danulation Limit			Hom Manual and Callerte		1.0			
				s, User Manual must indicate a minimum seperation distance of la General Population Limits, a minimum seperation distance of					
		£		1,					
	PE Calculations and Summary					2	2		ļ .
Band (MHZ)	Tx Duty Cycle (%)			Power Total (mW)	Antenna Gain (dBi)	$S_L (W/m^2)$	$S_{20} (W/m^2)$	R _C (cm)	$S_C (W/m^2)$
2402-2480	100	2437		8	5	5.404	0.04	1.6	5.40

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Revision 2

Garmin International, Inc. SN's: 3432028971 / 3442517201 PMN: A04475 – 10", A04475 – 7" FCC ID: IPH-04475

Test: 230301 IC: 1792A-04475 Test to: CFR47 15C, RSS-210, RSS-247 Date: June 28, 2023

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