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| Rogers Labs, Inc.                   | Garmin International, Inc.          | FCC ID: IPH-04277                      |
| 4405 West 259 <sup>th</sup> Terrace | PMN: A04277, B04277, C04277, D04277 | IC: 1792A-04277                        |
| Louisburg, KS 66053                 | Test: 230404                        | SN's: 85Y000013 /85W000016 /3438712904 |
| Phone/Fax: (913) 837-3214           | Test to: 47CFR 15.249, RSS-210      | Date: August 30, 2023                  |
| Revision 1                          | File: 04277 RFExp                   | Page 1 of 3                            |

Rogers Labs, Inc.  
4405 West 259<sup>th</sup> Terrace  
Louisburg, KS 66053  
Phone/Fax: (913) 837-3214  
Revision 1

FCC ID: IPH-04277  
IC: 1792A-04277  
W000016 /3438712904  
Date: August 30, 2023  
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|                                                    |  |                                                                                                                                                                                       |  |                                 |  |                                  |  |
|----------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------|--|----------------------------------|--|
|                                                    |  | HVIN: 4277                                                                                                                                                                            |  | Test Number: 230405D            |  |                                  |  |
| MPE Calculator                                     |  | RF Exposure uses EIRP for calculation. EIRP is based on TX power added to the antenna gain in dBi.<br>dBi = dB gain compared to an isotropic radiator.<br>S = power density in mW/cm² |  |                                 |  |                                  |  |
|                                                    |  | Transmitter Output power (mW)                                                                                                                                                         |  | 17.7                            |  |                                  |  |
|                                                    |  | Transmitter Output power (W)                                                                                                                                                          |  | 0.037                           |  |                                  |  |
| Output Power for % duty Cycle operation (Watts)    |  | 100                                                                                                                                                                                   |  | 0.037                           |  | Antenna Gain (dBi) 0.9           |  |
| Output Power for 100% duty Cycle operation (Watts) |  | 0.037                                                                                                                                                                                 |  |                                 |  | Antenna Gain (Numeric) 1.23      |  |
| Tx Frequency (MHz)                                 |  | 2412                                                                                                                                                                                  |  | Calculation power (Watts) 0.037 |  | dBd + 2.17 = dBi dBi to dBd 2.17 |  |
|                                                    |  |                                                                                                                                                                                       |  |                                 |  | Antenna Gain (dBd) -1.27         |  |
| Cable Loss (dB)                                    |  | 0.0                                                                                                                                                                                   |  | Adjusted Power (dBm) 15.67      |  | Antenna minus cable (dBi) 0.90   |  |
|                                                    |  |                                                                                                                                                                                       |  |                                 |  | Antenna Gain (Numeric) 1.23      |  |
|                                                    |  | Calculated ERP (mw) 27.542                                                                                                                                                            |  |                                 |  | EIRP = Po(dBm) + Gain (dB)       |  |
|                                                    |  | Calculated EIRP (mw) 45.394                                                                                                                                                           |  |                                 |  | Radiated (EIRP) dBm 16.570       |  |
|                                                    |  |                                                                                                                                                                                       |  |                                 |  | ERP = EIRP - 2.17 dB             |  |
|                                                    |  |                                                                                                                                                                                       |  |                                 |  | Radiated (ERP) dBm 14.400        |  |
|                                                    |  | <div>Power density (S) mW/cm² = <div>EIRP -----<br/>4 π r²</div></div> <div>r (cm) EIRP (mW)</div>                                                                                    |  |                                 |  |                                  |  |
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Revision 1

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