## 12. Radio Frequency Exposure

## 12.1 Applicable Standards

|                            | The available maximum time-averaged power is no more than 1 mW,  |  |  |  |  |  |  |  |
|----------------------------|--|--|--|--|--|--|--|--|
| §1.1307(b)(3)(i)(A)        | regardless of separation distance.   |  |  |  |  |  |  |  |
| ☐<br>§1.1307(b)(3)(i)(c)   | ERP is below a threshold calculated based on the distance , R between the person and the antenna / radiating structure, where R > $\lambda$ /2 $\pi$ .   |  |  |  |  |  |  |  |
| ⊠<br>§ 1.1307(b)(3)(i)(B). | Device operates between 300 MHz and 6 GHz and the maximum time-averaged power or effective radiated power (ERP), whichever is greater, <= Pth $P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \ cm} (d/20 \ \text{cm})^x & d \leq 20 \ \text{cm} \\ ERP_{20 \ cm} & 20 \ \text{cm} < d \leq 40 \ \text{cm} \end{cases}$ Where |  |  |  |  |  |  |  |

Report No.: 24100075-TRFCC01

Issued Date : Dec. 31, 2024

Cerpass Technology Corp.

T-FD-506-0 Ver 1.6 Page No. : 42 of 43 FCC ID. : SWX-UCGF

## 12.2 EUT Specification

|   | ☐ WLAN: 2412MHz ~ 2462MHz        |  |  |  |  |
|---|----------------------------------|--|--|--|--|
|   |                                  |  |  |  |  |
| Frequency band  |                                  |  |  |  |  |
| (Operating)   |                                  |  |  |  |  |
| · · · · · · · · · · · · · · · · · · ·   | ☐ WLAN: 5725MHz ~ 5850MHz        |  |  |  |  |
|   | Bluetooth: 2402MHz ~ 2480MHz     |  |  |  |  |
| Device category   | ☐ Portable (<20cm separation)    |  |  |  |  |
|   |                                  |  |  |  |  |
| Antenna diversity   | Single antenna                   |  |  |  |  |
|   |                                  |  |  |  |  |
|   | ☐ Tx diversity                   |  |  |  |  |
|   | ☐ Rx diversity                   |  |  |  |  |
|   | ☐ Tx/Rx diversity                |  |  |  |  |
| Evaluation applied  | ☐ Blanket 1 mW Blanket Exemption |  |  |  |  |
|   | MPE-based Exemption              |  |  |  |  |
|   | ☐ SAR-based Exemption            |  |  |  |  |
| Remark:   |                                  |  |  |  |  |
|   |                                  |  |  |  |  |
| The maximum conducted output power is <u>9.29dBm (8.492mW) at 2440MHz (with 4.00dBi</u> |                                  |  |  |  |  |
| antenna gain.)  |                                  |  |  |  |  |
|   |                                  |  |  |  |  |

Report No.: 24100075-TRFCC01

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## 12.3 Test Result

| Channel<br>Frequency<br>(MHz) | Max.<br>Conducted<br>output power<br>(dBm) | Max.<br>Tune up<br>power<br>(dBm) | Antenna<br>Gain(dBi) | Max.Tune up<br>e.r.p. Power<br>(dBm) | Max. Tune up<br>e.r.p power<br>(mW) | Limit<br>(mW) |
|-------------------------------|--|-----------------------------------|----------------------|--------------------------------------|-------------------------------------|---------------|
| 2402-2480                     | 9.29                                       | 9.79                              | 4.00                 | 11.64                                | 14.59                               | 3060          |

No non-compliance noted.

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T-FD-506-0 Ver 1.6 Page No. : 43 of 43 FCC ID. : SWX-UCGF