

# RF EXPOSURE REPORT

**FCC ID: 2A5CV-RH-1025**

Report Reference No. .... : 24EFSS11090 02911

Date of issue ..... : 2025-01-15

Applicant's name.....: Huizhou Ronghui Technology Co., Ltd

Address.....: Liboshui No.1 Industrial Zone, Shiwan Town, Boluo County,  
Huizhou City, Guangdong Province, China

Manufacturer.....: Huizhou Ronghui Technology Co., Ltd

Equipment.....: Wireless Controller for RH-1025

Trade Mark.....: /

Model .....: RH-1025

Ratings.....: I/P: 5Vdc, 500mA  
3.7Vdc, 1000mAh (Battery power)

Testing Laboratory .....: DongGuan ShuoXin Electronic Technology Co., Ltd.

Address.....: Zone A, 1F, No. 6, XinGang Road YuanGang Street, XinAn  
District, ChangAn Town, DongGuan City, GuangDong, China

According .....: KDB 447498 D04 Interim General RF Exposure Guidance v01

Test Engineer:



Blue Qiu

Responsible Engineer :



Leo Chen

Authorized Signatory:



Smile Wang

## MPE CALCULATION METHOD:

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B. 1})$$

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B. 2})$$

where

$$x = -\log_{10} \left( \frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and  $f$  is in GHz,  $d$  is the separation distance (cm), and  $ERP_{20 \text{ cm}}$  is per Formula (B.1). The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

| Frequency (MHz) | Distance (mm) |    |    |     |     |     |     |     |     |     |
|-----------------|---------------|----|----|-----|-----|-----|-----|-----|-----|-----|
|                 | 5             | 10 | 15 | 20  | 25  | 30  | 35  | 40  | 45  | 50  |
| 300             | 39            | 65 | 88 | 110 | 129 | 148 | 166 | 184 | 201 | 217 |
| 450             | 22            | 44 | 67 | 89  | 112 | 135 | 158 | 180 | 203 | 226 |
| 835             | 9             | 25 | 44 | 66  | 90  | 116 | 145 | 175 | 207 | 240 |
| 1900            | 3             | 12 | 26 | 44  | 66  | 92  | 122 | 157 | 195 | 236 |
| 2450            | 3             | 10 | 22 | 38  | 59  | 83  | 111 | 143 | 179 | 219 |
| 3600            | 2             | 8  | 18 | 32  | 49  | 71  | 96  | 125 | 158 | 195 |
| 5800            | 1             | 6  | 14 | 25  | 40  | 58  | 80  | 106 | 136 | 169 |

Antenna gain = 0dBi

MAX Output Power : 3.090dBm@2402MHz

ERP=3.090+0-2.15= 0.94dBm

WORSE CASE:

$10^{0.309}=2.04\text{mW} < 3\text{mW}$

Then SAR evaluation is not required

END