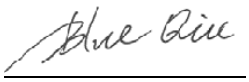
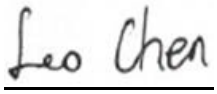
RF EXPOSURE REPORT

FCC ID: 2A5CV-RH-088-F

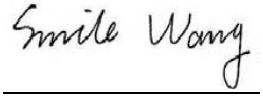
Report Reference No. ..... :	24EFSS11090 02501
Date of issue ..... :	2025-01-20
Applicant's name.....:	Huizhou Ronghui Technology Co., Ltd
Address.....:	Liboshui No.1 Industrial Zone, Shiwan Town, Boluo County, Huizhou City, Guangdong Province, China
Manufacturer.....:	Huizhou Ronghui Technology Co., Ltd
Equipment.....:	Wireless Controller for RH-088-F
Trade Mark.....:	/
Model .....:	RH-088-F
Ratings.....:	I/P: 5Vdc, 500mA 3.7Vdc, 600mAh (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:

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

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

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：3.603dBm@2402MHz

ERP=3.603+0-2.15= 1.453dBm

WORSE CASE:

10^0.3603=2.3mW <3mW

Then SAR evaluation is not required

END