

RF Exposure Evaluation Report

Report No.: JYTSZ-R12-2500937

Applicant: Sunwell Technology Company Limited

Address of Applicant: Building 2.Unit 2.Floor 4A. Jinlong Mingyuan, Nanlian Community, Longgang Street, Longgang District, Shenzhen.China

Equipment Under Test (EUT)

Product Name: RF REMOTE CONTROL

Model No.: RCB-TS2A

Trade mark: N/A

FCC ID: 2AWRZ-RCB-TS2A-TX

Applicable standards: FCC CFR Title 47 Part 2 (§2.1093)

Date of sample receipt: 16 May, 2025

Date of Test: 17 May, to 16 Jun., 2025

Date of report issue: 16 Jun., 2025

Test Result: PASS

Project by: _____

Date: 16 Jun., 2025

Reviewed by: _____

Date: 16 Jun., 2025

Approved by: _____

Date: 16 Jun., 2025

Manager

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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1 Version

Version No.	Date	Description
00	16 Jun., 2025	Original

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3 General Information

3.1 Client Information

Applicant:	Sunwell Technology Company Limited
Address:	Building 2.Unit 2.Floor 4A. Jinlong Mingyuan, Nanlian Community, Longgang Street, Longgang District, Shenzhen.China
Manufacturer/Factory:	Sunwell Technology Company Limited
Address:	Building 2.Unit 2.Floor 4A. Jinlong Mingyuan, Nanlian Community, Longgang Street, Longgang District, Shenzhen.China

3.2 General Description of E.U.T.

Product Name:	RF REMOTE CONTROL
Model No.:	RCB-TS2A
Operation Frequency:	303.875 MHz
Modulation technology:	ASK
Antenna Type:	Internal Antenna
Antenna gain:	-0.5 dBi (declare by Applicant)
Power Supply:	DC 3V(AAA battery *2)
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

3.3 Operating Modes

Operating mode	Detail description
Tx mode	Keep the EUT in continuously transmitting mode

3.4 Additions to, Deviations, or Exclusions from the Method

No

3.5 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

● **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● **CNAS - Registration No.: CNAS L15527**

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

● **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

3.6 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website:<http://jyt.lets.com>

4 Technical Requirements Specification

4.1 Limits

According to 447498 D01 General RF Exposure Guidance v06 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

4.2 Result

According to the calculation formula of power:

$$\text{EIRP} = P \cdot G = (E \cdot d)^2 / 30$$

Where:

P = transmitter output power in watts,

G = numeric gain of the antenna in the direction of interest relative to an isotropic radiator (unitless),

E = electric field strength in V/m, --- $10^{((\text{dBuV/m})/20)}/10^6$,

d = measurement distance in meters (m)---3m,

So,

$$P = (E \cdot d)^2 / (30 \cdot G)$$

Frequency (MHz)	Maximum field strength@3m (dBuV/m)	Maximum field strength@3m (V/m)	Antenna Gain (dBi)	Antenna Gain (numeric)	Distance (m)	Output power (mW)
303.875	74.88	0.0055	-0.5	0.89	3	0.01

Thus, Worse case below:

Frequency (MHz)	Max Output power (mW)	Min test distance (mm)	Result	Limit of 10-g SAR test exclusion thresholds
303.875	0.01	5	0.03	7.5

4.3 Conclusion

Cuz $0.03 < 7.5$ for 10-g SAR, the device is exempt from the SAR test and satisfies RF exposure evaluation.

-----End of report-----