



Test Report No.:
FCCSZ2025-0026-H

RF Test Report

FCC ID : 2AV2J-DBRC18
EUT : Bluetooth remote control
APPLICANT : Shenzhen Dangs Science Technology Co.,Ltd
Classification of Test : N/A

CVC Testing Technology (Shenzhen) Co., Ltd.



Applicant	Name : Shenzhen Dangs Science Technology Co.,Ltd Address :1301, Building D, 1st Block, Chuangzhi Yuncheng, Liuxian Avenue, Xili Community, Xili Street, Nanshan District, Shenzhen,China		
Manufacturer	Name : Wuxi Weida Intelligent Electronics Co., Ltd. Address :No. 85, Feihong Road, Liangxi District, Wuxi City, Jiangsu Province, China.		
Equipment Under Test	Name : Bluetooth remote control Model/Type: DBRC-18 Additional model:N/A Trade mark :Dangbei,emotn Serial NO.:N/A Sampe NO.:2-1		
Date of Receipt.	Mar. 31,2025	Date of Testing	Mar. 31,2025~Apr. 15,2025
Test Specification		Test Result	
FCC Part 2 (Section 2.1091) KDB 447498 D04, IEEE C95.3		PASS	
Evaluation of Test Result	The equipment under test was found to comply with the requirements of the standards applied.		
Seal of CVC Issue Date: May.8,2025			
Compiled by: <u>Cai Jianyu</u> <u>Cai Jianyu</u> Name Signature	Reviewed by: <u>Mo Xianbiao</u> <u>Mo Xianbiao</u> Name Signature	Approved by:  <u>Dong Sanbi</u> Name Signature	
Other Aspects: NONE.			
Abbreviations:OK, Pass= passed Fail = failed N/A= not applicable EUT= equipment, sample(s) under tested			

This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.



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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FCCSZ2025-0026-H	Original release	May.8,2025



1. GENERAL PRODUCT INFORMATION

PRODUCT	Bluetooth remote control
BRAND	Dangbei,emotn
MODEL	DBRC-18
ADDITIONAL MODEL	N/A
POWER SUPPLY	DC 3V From Battery
OPERATING FREQUENCY	GFSK for BT-LE
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A

Remark:

1. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
3. EUT photo refer to the report (Report NO.: FCCSZ2025-0026-EUT).



2. RF EXPOSURE LIMIT

(Option B) According to FCC Part2.1091 and FCC Part1.1307b, the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P is given by:

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

Where:

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

and f is in GHz;

and

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

(Option C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

RF SOURCE FREQUENCY (MHZ)	THRESHOLD ERP(W)
0.3 - 1.34	$1,920 R^2$
1.34 - 30	$3,450 R^2 F^2$
30 - 300	$3.83 R^2$
300-1500	$0.0128 R^2 F$
1500-100,000	$19.2 R^2$



3. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 0.5cm away from the body of the user. So, this device is classified as **Portable Device**.

4. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
BT-LE	1.92	PCB Antenna

This is provided by the manufacturer. The laboratory is not responsible for technical data provided by the customer.

5. CALCULATION RESULT OF MAXIMUM CONDUCTED PEAK POWER

The measured conducted Peak Power

Technology	Antenna	Maximum conducted power (dBm)	Maximum Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	R(cm)	Threshold ERP(mW)	Ratio
BT-LE	Ant1	2.51	1.92	2.28	1.69	0.5	2.77	0.61

Conclusion:Pass.

----- End of the Report -----



Important

- (1) The test report is invalid without the official stamp of CVC;
- (2) Any part photocopies of the test report are forbidden without the written permission from CVC;
- (3) The test report is invalid without the signatures of Approval and Reviewer;
- (4) The test report is invalid if altered;
- (5) Objections to the test report must be submitted to CVC within 15 days.
- (6) Generally, commission test is responsible for the tested samples only.
- (7) As for the test result “-” or “N” means “not applicable”, “/” means “not test”, “P” means “pass” and “F” means “fail”

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