



Aibo Standard Technology (Shenzhen) Co., Ltd.

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FCC TEST REPORT

Report No.....: AB25070084FW02

FCC ID.....: 2BQWH-MINI30

Applicant.....: Hangzhou Zhirui Technology Co., Ltd.

Address.....: Room 503, Bldg. 2, Wanguanghui Business Ctr,Gongshu District, Hangzhou, Zhejiang,China

Manufacturer.....: Hangzhou Zhirui Technology Co., Ltd.

Address.....: Room 503, Bldg. 2, Wanguanghui Business Ctr,Gongshu District, Hangzhou, Zhejiang,China

Product Name.....: Smart curtain motor kit

Trade Mark.....: Minicurtain

Test Model.....: Mini30

Additional Model(s).....: Mini40, Mini50, Mini60, Mini70, Mini80

Standard.....: FCC Part 2 (Section 2.1091)
KDB 447498 D01
IEEE C95.1

Date of Receipt.....: 2025.07.17

Date of Issue.....: 2025.08.06

Test Result.....: Pass

Compiled by:
(Printed Name + Signature)

Huaijie Li

Huaijie Li

Supervised by:
(Printed Name + Signature)

Jay Liu

Jay Liu

Approved by:
(Printed Name + Signature)

Mic Cheng

Mic Cheng

Testing Laboratory Name.....: Aibo Standard Technology (Shenzhen) Co., Ltd.

Address.....: 101, Building B, Tuori New Energy Industrial Park, High-tech Park, Tianliao Community, Yutang Street, Guangming District, Shenzhen City, Guangdong Province, China

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FCC TEST REPORT

Test Report No.: AB25070084FW02	<u>2025.08.06</u> Date of issue
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EUT.....	: Smart curtain motor kit
Test Model.....	: Mini30
Applicant.....	: Hangzhou Zhirui Technology Co., Ltd.
Address.....	: Room 503, Bldg. 2, Wanguanghui Business Ctr,Gongshu District, Hangzhou, Zhejiang,China
Manufacturer.....	: Hangzhou Zhirui Technology Co., Ltd.
Address.....	: Room 503, Bldg. 2, Wanguanghui Business Ctr,Gongshu District, Hangzhou, Zhejiang,China

Test Result	Positive
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

REPORT VERSION

Version No.	Issue Date	Description
01	2025.08.06	Initial Issue

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1. GENERAL INFORMATION

1.1. GENERAL DESCRIPTION OF EUT

Product Name:	Smart curtain motor kit
Trade Mark:	Minicurtain
Test Model:	Mini30
Additional Model(s):	Mini40, Mini50, Mini60, Mini70, Mini80
Model Difference:	All models are the same circuit and RF module, except the model name.
Hardware Version:	/
Software Version:	/
Power Source:	AC 120V/60Hz
Test Sample(s) Number:	AB25070084-01(Engineer Sample)
Antenna Gain:	2.54dBi

1.2. DESCRIPTION OF TEST FACILITY

Test Lab: Aibo Standard Technology (Shenzhen) Co., Ltd.

Address: 101, Building B, Tuori New Energy Industrial Park, High-tech Park, Tianliao Community, Yutang Street, Guangming District, Shenzhen City, Guangdong Province, China

Tel.: +(86) 0755 85250797

E-mail: Aibonorm@aibonorm.com

Website: www.Aibonorm.com

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

A2LA-Lab Certificate No.: 7514.01

Aibo Standard Technology (Shenzhen) Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC Accredited Lab.

Designation Number: CN1411

Test Firm Registration Number: 567066

ISED Wireless Device Testing Laboratories

CAB identifier: CN0185

2. RF EXPOSURE EVALUATION

2.1 Limit

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

f = frequency in MHz

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

P_d = power density in mW/cm², P_{out} = output power to antenna in mW;

G = gain of antenna in linear scale, $\pi = 3.1416$;

R = distance between observation point and center of the radiator in cm

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

2.2 Evaluation Result

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
b	2412-2462	5	+ -1	4	6
g	2412-2462	6	+ -1	5	7
n20	2412-2462	6	+ -1	5	7

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
b	2437	5.89
g	2412	6.69
n20	2412	6.46

g mode

Mode	Max AVerage power (dBm)	Antenna gain (dBi)	Output power to antenna (mW)	Power Density at R=20cm (mW/cm2)	Limit (mW/cm2)	Result
g	7	2.54	8.99	0.0018	1.0	PASS

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

*****THE END*****