

FCC TEST REPORT

Report No.....: AB26050242FW03

FCC ID.....: **2BWNW-BKSG2-MINI**

Applicant.....: Shenzhen Xinzhongxin Technology Co., Ltd

Address.....: Floor1~3 of Block 2, Dong Huan Industrial Park, NanPu Road
No.293,Shang Liao Community, Xin Qiao Street, BaoAn District,
Shenzhen City, Guangdong Province, PRC.

Manufacturer.....: Shenzhen Xinzhongxin Technology Co., Ltd

Address.....: Floor1~3 of Block 2, Dong Huan Industrial Park, NanPu Road
No.293,Shang Liao Community, Xin Qiao Street, BaoAn District,
Shenzhen City, Guangdong Province, PRC.

Product Name.....: WIFI Module

Trade Mark.....: /

Test Model.....: BKSG2-MINI

Additional Model(s).....: /

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

Date of Receipt.....: 2026.05.15

Date of Test Date.....: 2026.05.15-2026.06.03

Date of Issue.....: 2026.06.03

Test Result.....: Pass

Compiled by:
(Printed Name + Signature)

Huaijie Li

Huaijie Li

Supervised by:
(Printed Name + Signature)

David Huang

David Huang

Approved by:
(Printed Name + Signature)

Jay Liu

Jay Liu

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

This test report may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product endorsement by Aibo. The test results in the report only apply to the tested sample. The test report shall be invalid without all the signatures of testing engineers, reviewer and approver. Any objections must be raised to Aibo within 15 days since the date when the report is received. It will not be taken into consideration beyond this limit. The test report merely correspond to the test sample.

FCC TEST REPORT

EUT.....	: WIFI Module
Test Model.....	: BKSG2-MINI
Applicant.....	: Shenzhen Xinzhongxin Technology Co., Ltd
Address.....	: Floor1~3 of Block 2, Dong Huan Industrial Park, NanPu Road No.293,Shang Liao Community, Xin Qiao Street, BaoAn District, Shenzhen City, Guangdong Province, PRC.
Manufacturer.....	: Shenzhen Xinzhongxin Technology Co., Ltd
Address.....	: Floor1~3 of Block 2, Dong Huan Industrial Park, NanPu Road No.293,Shang Liao Community, Xin Qiao Street, BaoAn District, Shenzhen City, Guangdong Province, PRC.

Test Result	Positive
--------------------	-----------------

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	2026.06.03	Initial Issue

TABLE OF CONTENTS

1. GENERAL INFORMATION	5
1.1. GENERAL DESCRIPTION OF EUT	5
1.2. DESCRIPTION OF TEST FACILITY	6
2. RF EXPOSURE EVALUATION	7
2.1 LIMIT	7
2.2 EVALUATION RESULT	8

1. GENERAL INFORMATION

1.1. GENERAL DESCRIPTION OF EUT

Product Name:	WIFI Module
Trade Mark:	/
Test Model:	BKSG2-MINI
Additional Model(s):	/
Hardware Version:	/
Software Version:	/
Power Supply:	DC 5V
EUT Supports Function: (Provided by the customer)	2.4GHz ISM Bands
Test Sample(s) Number:	AB26050241-01 (Engineer Sample)
Radio Specification Subject to this Report	
Bluetooth Version:	Bluetooth LE
Frequency Range:	2402MHz~2480MHz
Modulation Type:	GFSK
Channel Spacing:	2MHz
Channel Number(s):	40
Antenna Type:	PCB Antenna
Antenna Gain:	-0.71dBi
Radio Specification Subject to this Report	
Radio Specification:	IEEE 802.11b/g/n
Frequency Range:	2412MHz~2462MHz for IEEE 802.11b/g/n(HT20) 2422MHz~2452MHz for IEEE 802.11n(HT40)
Modulation Type:	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11n-HT20: OFDM (64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11n-HT40: OFDM (64-QAM, 16-QAM, QPSK, BPSK)
Channel Spacing:	5MHz
Channel Number(s):	11 Channels for IEEE 802.11b/g/n(HT20) 7 Channels for IEEE 802.11n(HT40)
Antenna Type:	PCB Antenna
Antenna Gain:	-0.71dBi

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.: +86 755 85250797

E-mail: aibo@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

Company Number: 33924

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

Mode	Total Power (dBm)	Antenna Gain	Max.EIRP (dBm)	Max.EIRP (mW)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Result
2.4G WIFI	5.65	-0.71	4.940	3.119	0.00062048	1.0	PASS
BLE	-1.17	-0.71	-1.880	0.649	0.000129	1.0	PASS

Results for transmit simultaneously

No.	Configurations	Maximum MPE Value mW/cm ²		Transmit simultaneously	Limits
1	2.4G WIFI+ BLE	0.00062048	0.000129	0.00074948	1

At the transmit simultaneously calculation method is as follows:

Transmit simultaneously MPE = Σ of MPE ratios²

MPE ratios = Field strengths or power density / MPE limit at the test frequency

So a SAR test is not required

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