

JianYan Testing Group Shenzhen Co., Ltd.

Report No.: JYTSZ-R12-2301324

RF Exposure Evaluation Report

Applicant: Zhuhai Jinhong Technology Co., LTD

Address of Applicant: room R07-06, 2nd floor, 4th building, number 2007 Mingzhunan

road, Zhuhai City, Guangdong Province, China

Equipment Under Test (EUT)

Product Name: AH WiFi Extender

Model No.: AW0506K, AWT1, AH02, RM-AH-906, AH-2.4-900, AH-2.4-800

FCC ID: 2AZIK-AW0506K

Applicable standards: FCC CFR Title 47 Part 2 (§2.1091)

Date of sample receipt: 31 May, 2023

Date of Test: 01 Jun., to 10 Jul., 2023

Date of report issue: 20 Sep., 2023

Test Result: PASS

Tested by: Date: 20 Sep., 2023

Reviewed by: 20 Sep., 2023

Approved by: ______ Date: ____ 20 Sep., 2023

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 Original		
00	20 Sep., 2023			





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3 General Information

3.1 Client Information

Applicant:	Zhuhai Jinhong Technology Co., LTD
Address:	room R07-06, 2nd floor, 4th building, number 2007 Mingzhunan road, Zhuhai City, Guangdong Province, China
Manufacturer/ Factory:	Zhuhai Jinhong Technology Co., LTD
Address:	room R07-06, 2nd floor, 4th building, number 2007 Mingzhunan road, Zhuhai City, Guangdong Province, China

3.2 General Description of E.U.T.

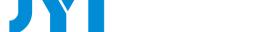
Product Name:	AH WiFi Extender		
Model No.:	AW0506K, AWT1, AH02, RM-AH-906, AH-2.4-900, AH-2.4-800		
Operation Frequency:	2.4G Wi-Fi: 2412MHz~2462MHz		
Modulation technology:	802.11b: DSSS, 802.11g/n: OFDM		
Antenna Type:	Rod Antenna		
Antenna gain:	Wi-Fi: 4.07 dBi		
Test Sample Condition: The test samples were provided in good working order with no visible defect			

3.3 Operating Modes

Operating mode Detail description			
2.4G WIFI mode	Keep the EUT in continuously transmitting in 2.4G WIFI mode		

3.4 Additions to, deviations, or exclusions from the method

No



Report No.: JYTSZ-R12-2301324

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 and 10m 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, Xingiao 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

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)

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		

4.2 Test Procedure

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{P \times G}{4 \times \pi \times R^2}$$

Where:

S = power density

P = power input to the antenna

G = numeric gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the centre of radiation of the antenna





4.3 Result

Frequency (MHz)	Maximum Output power (dBm)	Maximum Output power (mW)	Antenna Gain (dBi)	Antenna Gain (numeric)	Distance (cm)	Result (mW/cm²)	Limits for General Population/ Uncontrolled Exposure (mW/cm²)	Verdict
2.4G Wi-Fi								
2412	16.84	48.31	4.07	2.55	20.00	0.025	1.0	Pass

Note: Just the worst case mode was shown in report.

4.4 Conclusion

The device is exempt from the SAR test and satisfies RF exposure evaluation.

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