

TEST REPORT

Report No. : CQASZ20260801706E-03

Applicant: SHENZHEN XINWU TECHNOLOGY LIMITED

Address of Applicant: Floor 6, Building 2, Chungu Science park, Meisheng Huigu Science Park, 83 Dabao Road, Baoan District, Shenzhen

Equipment Under Test (EUT):

EUT Name: AI NOTE

Model No.: Ai-M1, Ai-M2, Ai-M3, Ai-M4, Ai-M5, Ai-M6, Ai-M7, Ai-M8, Ai-M9, Ai-M10,
Ai-M11, Ai-M12, Ai-M13, Ai-M14, Ai-M15, Ai-M16, Ai-M17, Ai-M18, Ai-M19,
Ai-M20, Ai-M8PRO

Test Model No.: Ai-M8

Brand Name: N/A

FCC ID: 2AW97-M8
47 CFR Part 1.1307

Standards: 47 CFR Part 1.1310
KDB447498D01 General RF Exposure Guidance v06

Date of Receipt: 2026-08-06

Date of Test: 2026-08-06 to 2026-09-01

Date of Issue: 2026-09-29

Test Result : **PASS**

Tested By: Azir Wang
(Azir Wang)

Reviewed By: Timo Lei
(Timo Lei)

Approved By: Jack Ai
(Jack Ai)



1. Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20260801706E-03	Rev.01	Initial report	2026-09-29

Note:

Model No.: Ai-M1, Ai-M2, Ai-M3, Ai-M4, Ai-M5, Ai-M6, Ai-M7, Ai-M8, Ai-M9, Ai-M10,

Ai-M11, Ai-M12, Ai-M13, Ai-M14, Ai-M15, Ai-M16, Ai-M17, Ai-M18, Ai-M19, Ai-M20, Ai-M8PRO

The products differ only in the texture of the front shell, with the same shell material used. Their electrical circuit design, PCB layout, component selection and internal wiring are all identical.

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3. General Information

4. Client Information

Applicant:	SHENZHEN XINWU TECHNOLOGY LIMITED
Address of Applicant:	Floor 6, Building 2, Chungu Science park, Meisheng Huigu Science Park, 83 Dabao Road, Baoan District, Shenzhen
Manufacturer:	SHENZHEN XINWU TECHNOLOGY LIMITED
Address of Manufacturer:	Floor 6, Building 2, Chungu Science park, Meisheng Huigu Science Park, 83 Dabao Road, Baoan District, Shenzhen
Factory:	SHENZHEN XINWU TECHNOLOGY LIMITED
Address of Factory:	Floor 6, Building 2, Chungu Science park, Meisheng Huigu Science Park, 83 Dabao Road, Baoan District, Shenzhen

5. General Description of EUT

Product Name:	AI NOTE
Model No.:	Ai-M1, Ai-M2, Ai-M3, Ai-M4, Ai-M5, Ai-M6, Ai-M7, Ai-M8, Ai-M9, Ai-M10, Ai-M11, Ai-M12, Ai-M13, Ai-M14, Ai-M15, Ai-M16, Ai-M17, Ai-M18, Ai-M19, Ai-M20, Ai-M8PRO
Test Model No.:	Ai-M8
Trade Mark:	N/A
Software Version:	XW232-WIFI-M8_20260611_v1.6_7312
Hardware Version:	XW232-WIFI-AI-RECORD-V1.2
Power Supply:	Li-ion battery DC 3.85V 500mAh, Charge by DC 5V for adapter
Simultaneous Transmission	☐ Simultaneous TX is supported and evaluated in this report. ☒ Simultaneous TX is not supported.

6. General Description of BLE

Operation Frequency:	2402MHz~2480MHz
Modulation Type:	GFSK
Transfer Rate:	1Mbps, 2Mbps
Number of Channel:	40
Product Type:	☐ Mobile ☒ Portable ☐ Fix Location
Antenna Type:	Chip antenna
Antenna Gain:	3 dBi

7. General Description of 2.4G WIFI Classic

Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20) : OFDM (64QAM, 16QAM, QPSK, BPSK)

Number of Channel:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels
Channel Separation:	5MHz
Transfer Rate:	IEEE for 802.11b: 1Mbps/2Mbps/5.5Mbps/11Mbps IEEE for 802.11g : 6Mbps/9Mbps/12Mbps/18Mbps/24Mbps/36Mbps/48Mbps/54Mbps IEEE for 802.11n(HT20) : 6.5Mbps/13Mbps/19.5Mbps/26Mbps/39Mbps/52Mbps/58.5Mbps/65Mbps/72.2Mbps
Sample Type:	☐ Mobile ☒ Portable ☐ Fix Location
Antenna Type:	Chip antenna
Antenna Gain:	3 dBi

RF Exposure Evaluation

RF Exposure Compliance Requirement

Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

Limits

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:

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

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

EUT RF Exposure

1) For BLE

Measurement Data

Worst case: GFSK				
Test Channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-4.37	-4.0±1	-3.0	0.37
Middle(2440MHz)	-3.82	-3.5±1	-2.5	0.41
Highest(2480MHz)	-4.19	-4.0±1	-3.0	0.38

Worst case: GFSK			
Channel	Maximum tuneup Power (mW)	Calculated value	Exclusion threshold
Lowest (2402MHz)	0.50	0.16	3.0
Middle (2440MHz)	0.56	0.18	
Highest (2480MHz)	0.50	0.16	
Conclusion: the calculated value ≤3.0, SAR is exempted.			

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20260801706E-01

2) For 2.4G WIFI

Measurement Data

Worst case: 802.11n				
Test Channel	AV Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2412MHz)	7.82	8.0±1	9	7.94
Middle(2437MHz)	7.52	7.5±1	8.5	7.08
Highest(2462MHz)	7.13	7.0±1	8.0	6.31

Worst case: 802.11n			
Channel	Maximum tuneup Power (mW)	Calculated value	Exclusion threshold
Lowest (2412MHz)	7.94	2.47	3.0
Middle (2437MHz)	7.08	2.21	
Highest (2462MHz)	6.31	1.98	
Conclusion: the calculated value ≤3.0, SAR is exempted.			

Remark: The Max Conducted AV Output Power data refer to report Report No.: CQASZ20260801706E-02

*** END OF REPORT ***