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# Antenna Test Report

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Report No.: AGC02762241206PA01

**PRODUCT DESIGNATION** : Wireless USB Adapter  
**BRAND NAME** : N/A  
**MODEL NAME** : BT09, AX900, AX910, AX919  
**APPLICANT** : SHEN ZHEN XIN HUA TIAN TECHNOLOGY CO., LTD  
**DATE OF ISSUE** : Dec. 12, 2024  
**REPORT VERSION** : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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**REPORT REVISE RECORD**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Dec. 12, 2024	Valid	Initial release

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## 1. PRODUCT INFORMATION


General information	
<b>Applicant</b>	SHEN ZHEN XIN HUA TIAN TECHNOLOGY CO., LTD
<b>Address</b>	3Floor, B Buliding, DaHong Industrial Park, GuangMin District, Shenzhen City, China
<b>Manufacturer</b>	SHEN ZHEN XIN HUA TIAN TECHNOLOGY CO., LTD
<b>Address</b>	3Floor, B Buliding, DaHong Industrial Park, GuangMin District, Shenzhen City, China
<b>Factory</b>	SHEN ZHEN XIN HUA TIAN TECHNOLOGY CO., LTD
<b>Address</b>	3Floor, B Buliding, DaHong Industrial Park, GuangMin District, Shenzhen City, China
<b>Product Designation</b>	Wireless USB Adapter
<b>Brand Name</b>	N/A
<b>Test Model</b>	BT09
<b>Series Model</b>	AX900, AX910, AX919
<b>Difference Description</b>	All the series models are the same as the test model except for the model names.
<b>Date of receipt of test item</b>	Dec. 10, 2024
<b>Date of test</b>	Dec. 10, 2024~Dec. 11, 2024
<b>Report Template</b>	AGCRT-ER-PA/V1.0
Technical information	
<b>Frequency Range</b>	2400-2500MHz
<b>Test Frequencies</b>	2400MHz, 2410MHz, 2420MHz, 2430MHz, 2440MHz, 2450MHz, 2460MHz, 2470MHz, 2480MHz, 2490MHz, 2500MHz
<b>Antenna Type</b>	External Antenna
<b>Dimensions</b>	126.8mm
<b>Impedance</b>	50Ω
<b>Maximum test values</b>	Gain: 3.228dBi; Efficiency: 8.190%; VSWR: 1.137:1

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd.

The test results of this report relate only to the tested sample identified in this report.

Prepared By   
 \_\_\_\_\_  
 Jack Gui  
 (Project Engineer) Dec. 12, 2024

Reviewed By   
 \_\_\_\_\_  
 Calvin Liu  
 (Reviewer) Dec. 12, 2024

Approved By   
 \_\_\_\_\_  
 Angela Li  
 (Authorized Officer) Dec. 12, 2024

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## 2. TEST FACILITY

<b>Test Site</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd
<b>Location</b>	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

## 3. TEST EQUIPMENT LIST

Equipment	Manufacturer	Model	Cal. Date	Cal. Due
ANTENNA MEASUREMENT SYSTEM	ETS-Lindgren	AMS-8600	Nov. 19, 2024	Nov. 18, 2025
Network Analyzer	R&S	ZVL-6	Oct. 02, 2024	Oct. 01, 2025
Test software	ETS-Lindgren	EMQuest	Ver V1.12	N/A

## 4. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in measurement” (GUM) published by CISPR and ANSI.

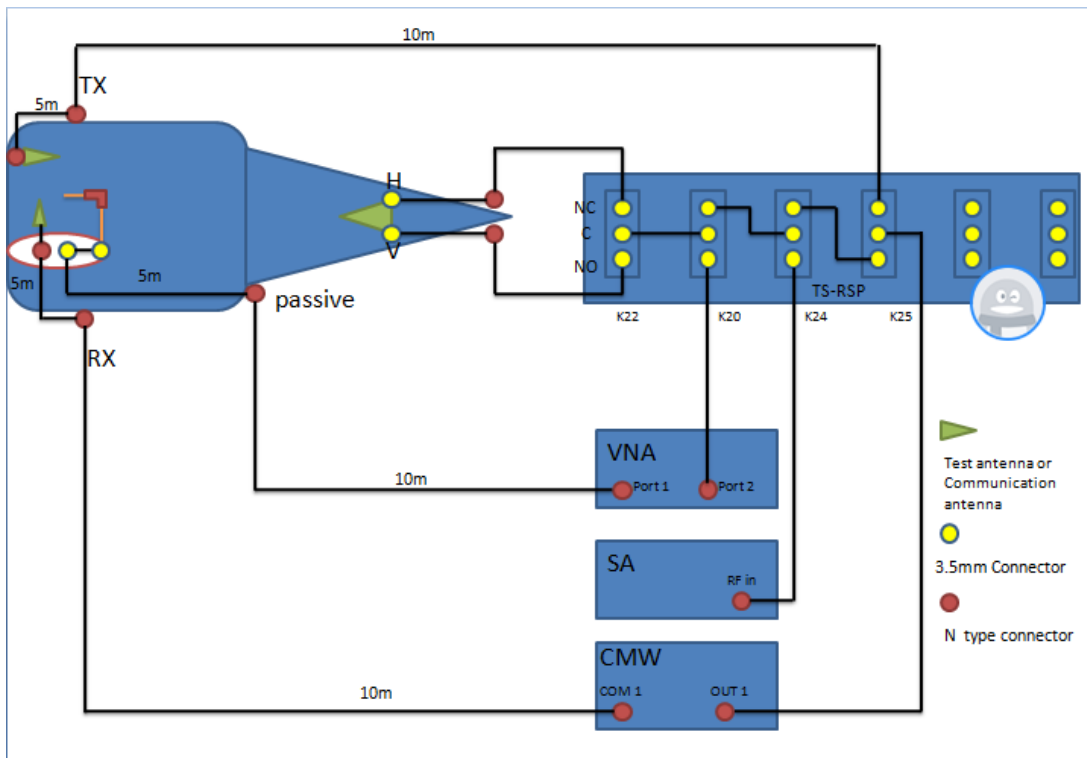
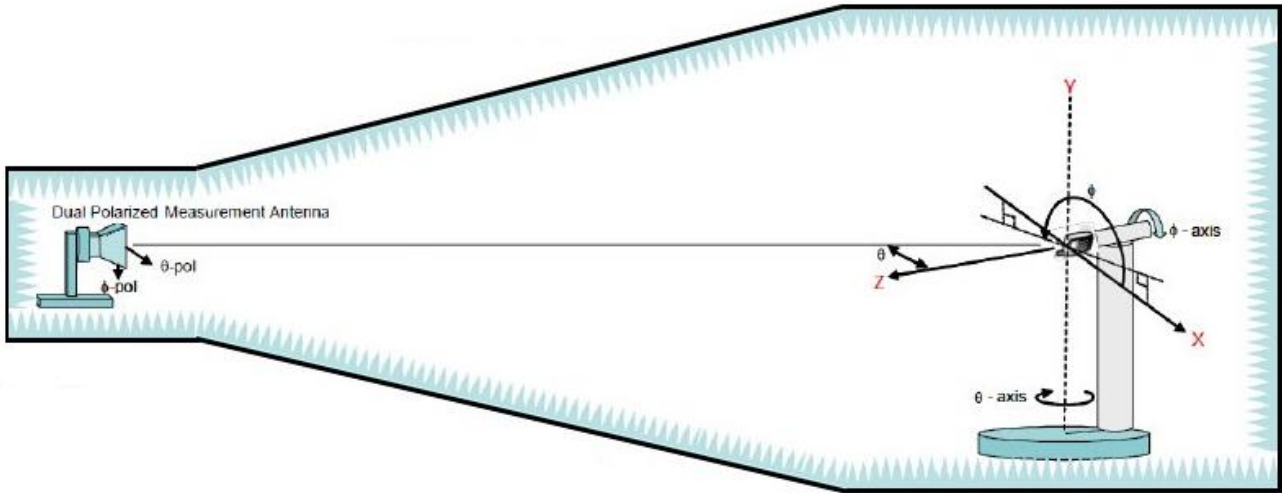
- Uncertainty of VSWR,  $U_c = \pm 1.5\text{dB}$
- Uncertainty of Gain,  $U_c = \pm 0.8\text{dB}$

## 5. TEST SUMMARY LIST

NO.	Test item	Remark
1	VSWR	--
2	Gain and efficiency	--
3	Radiation pattern	--

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## 6. TEST SETUP



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## 7. TEST RESULTS

### 7.1. VSWR

Frequency(MHz)	VSWR
2402	1.093:1
2450	1.121:1
2456	1.137:1
2480	1.121:1



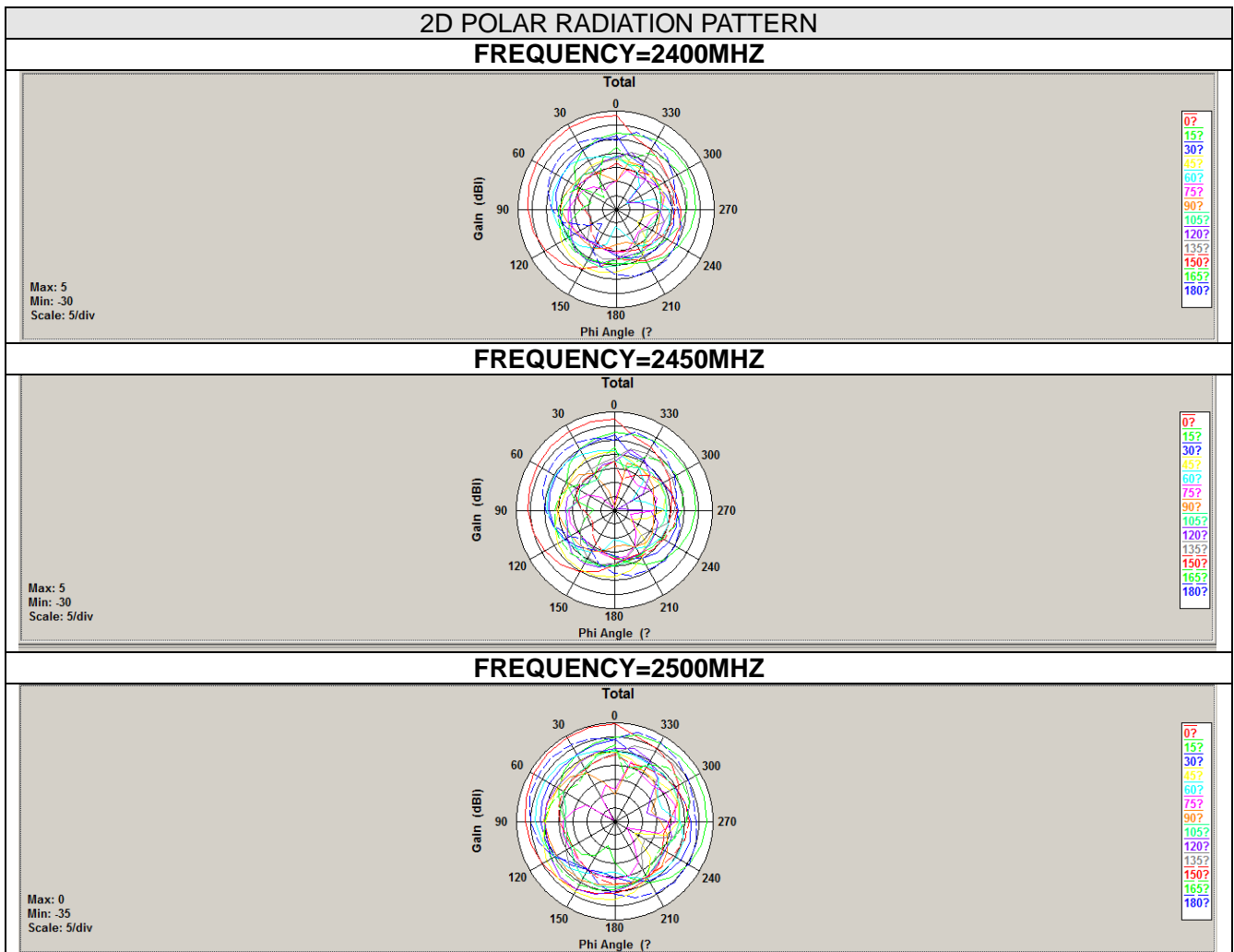
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### 7.2. GAIN AND EFFICIENCY

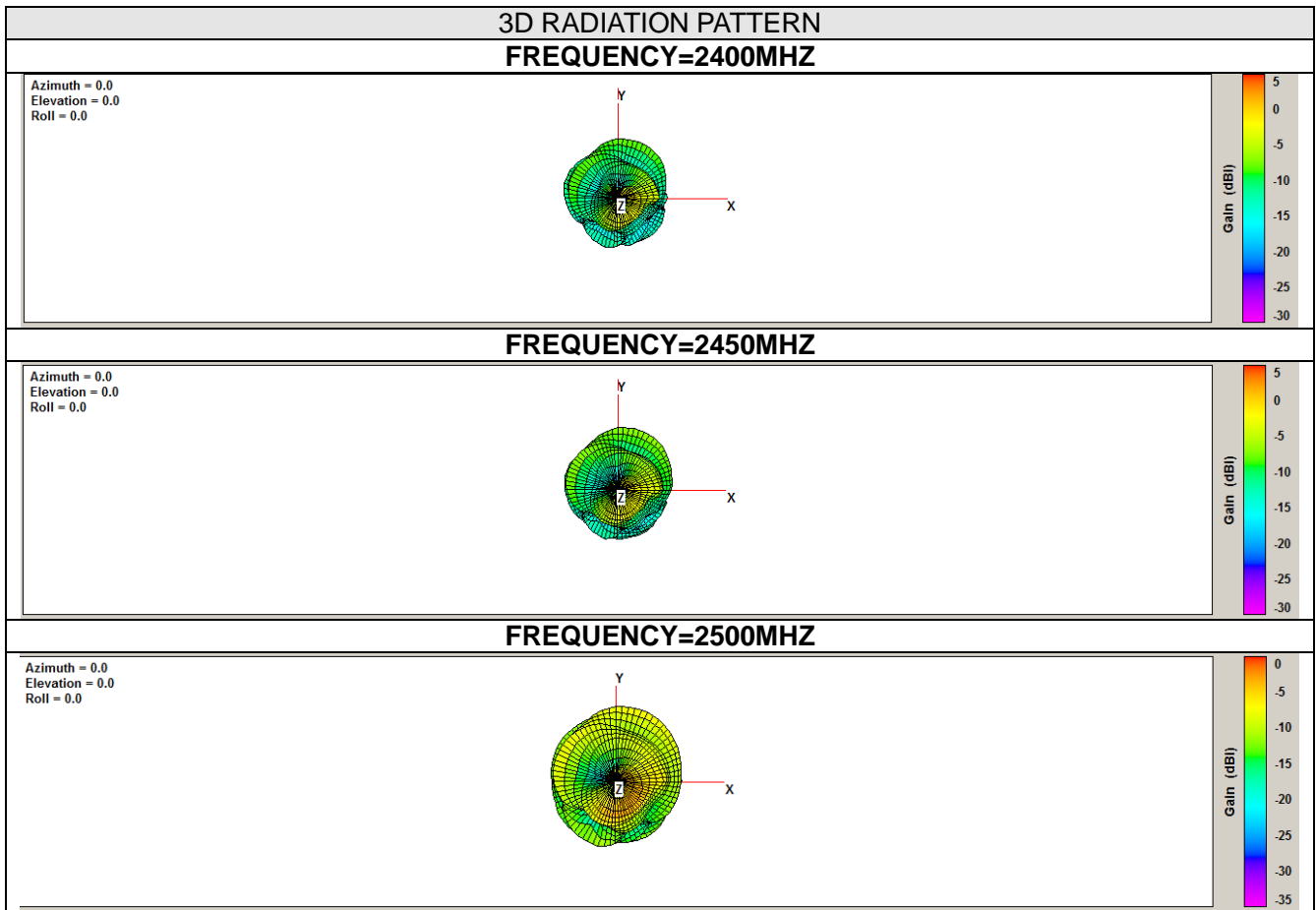
Frequency(MHz)	Efficiency(dB)	Efficiency(%)	Gain(dBi)
2400	-11.510	7.063	3.228
2410	11.582	6.948	2.814
2420	-11.616	6.893	2.516
2430	-10.276	7.454	2.505
2440	-10.915	8.100	2.521
2450	-10.867	8.190	2.248
2460	-10.959	8.018	1.749
2470	-11.100	7.763	0.879
2480	-11.106	7.751	0.337
2490	-11.173	7.633	-0.332
2500	-11.360	7.312	-0.626

### 7.3. RADIATION PATTERN

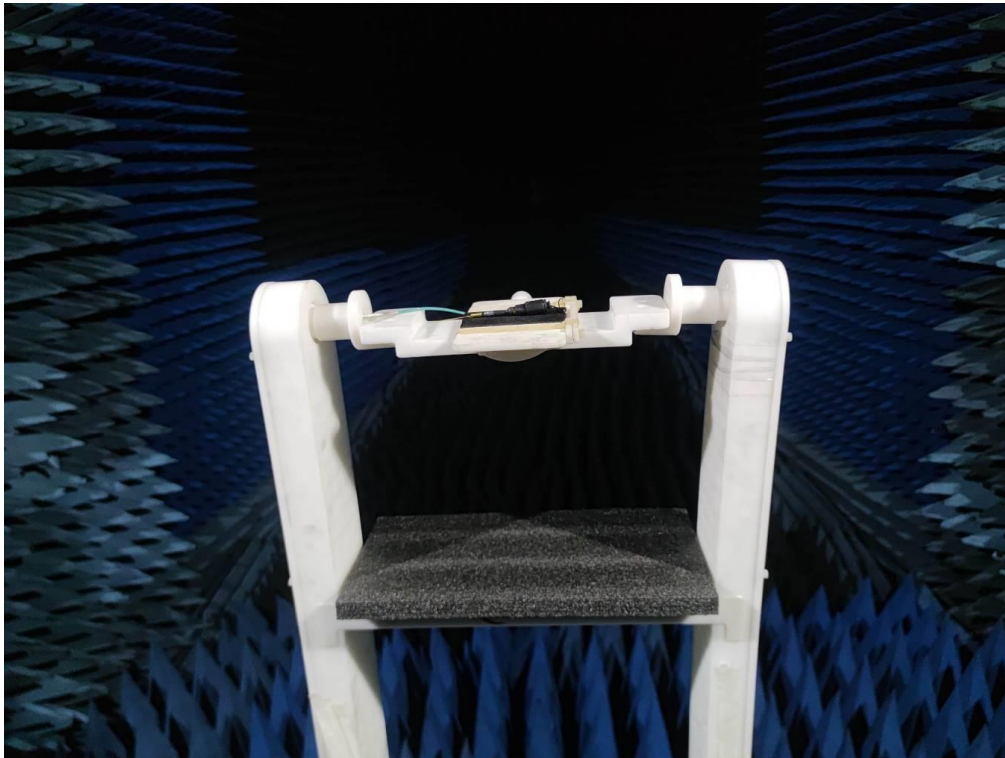


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**APPENDIX A: PHOTOGRAPHS OF TEST SETUP**

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## APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT



BOTTOM VIEW OF EUT



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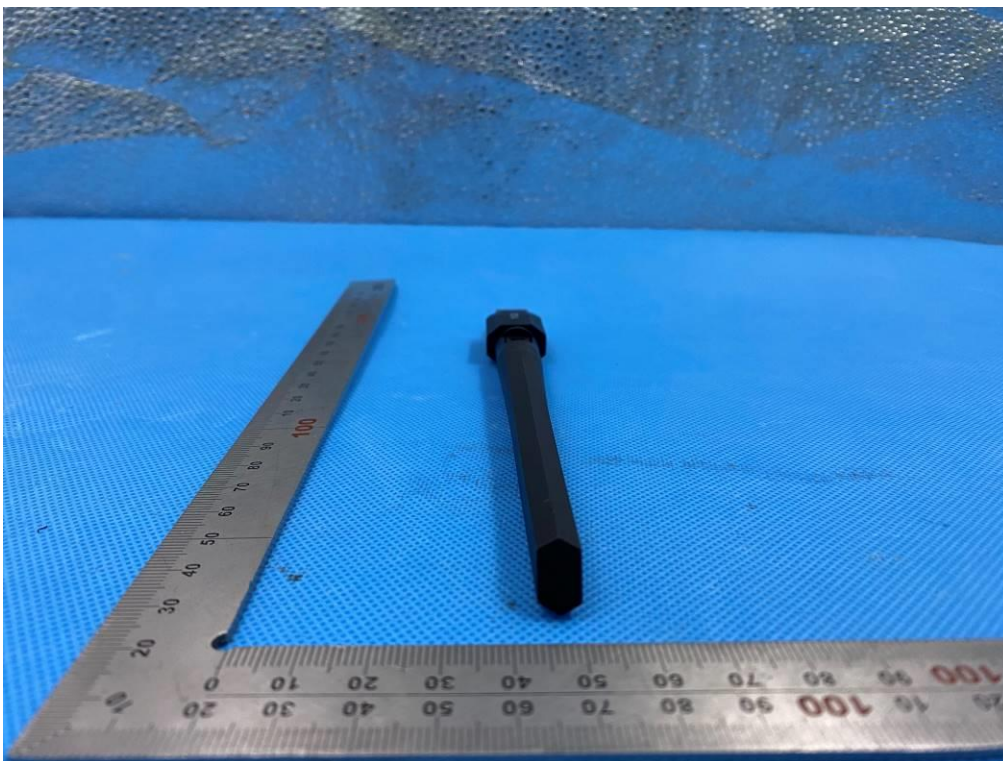
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FRONT VIEW OF EUT



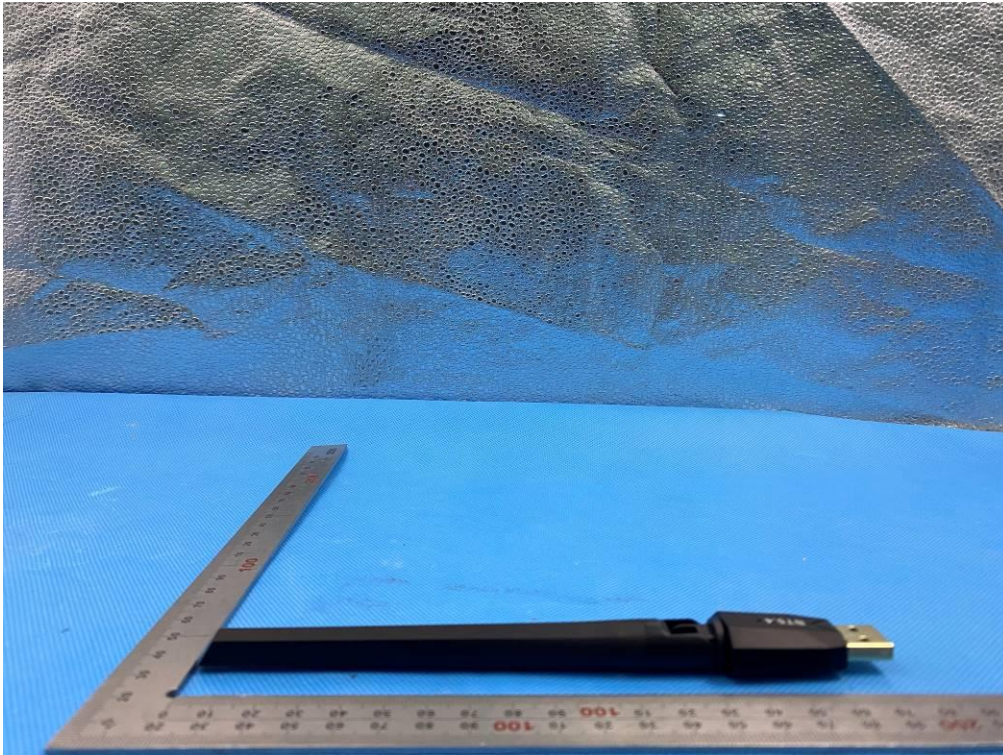
BACK VIEW OF EUT



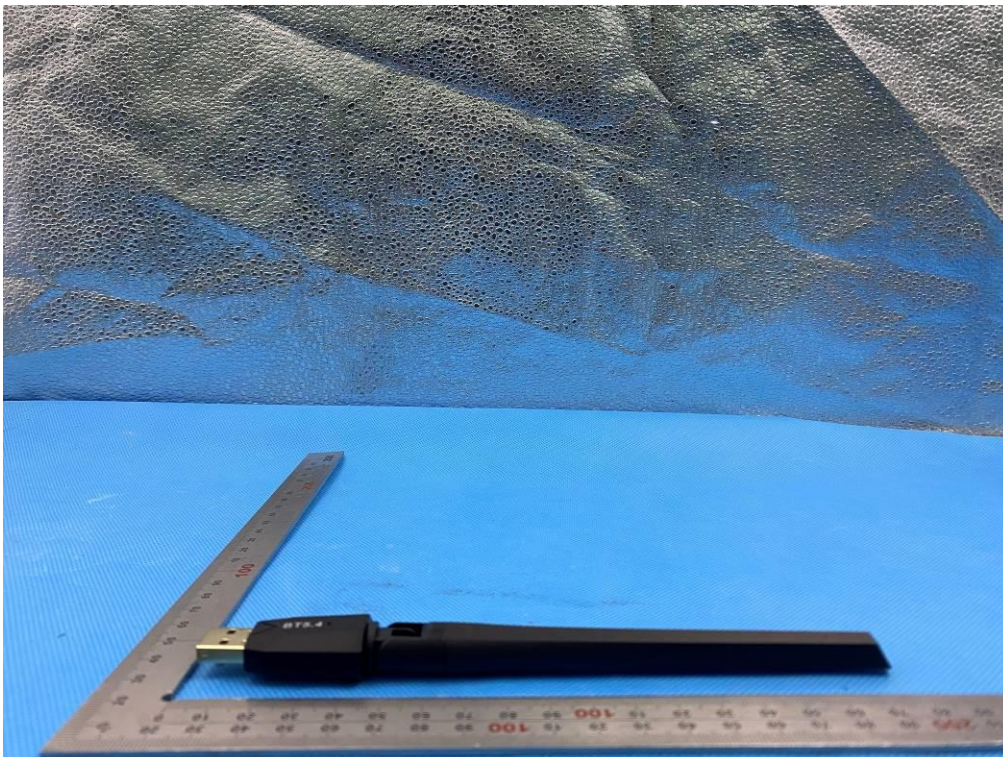
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LEFT VIEW OF EUT



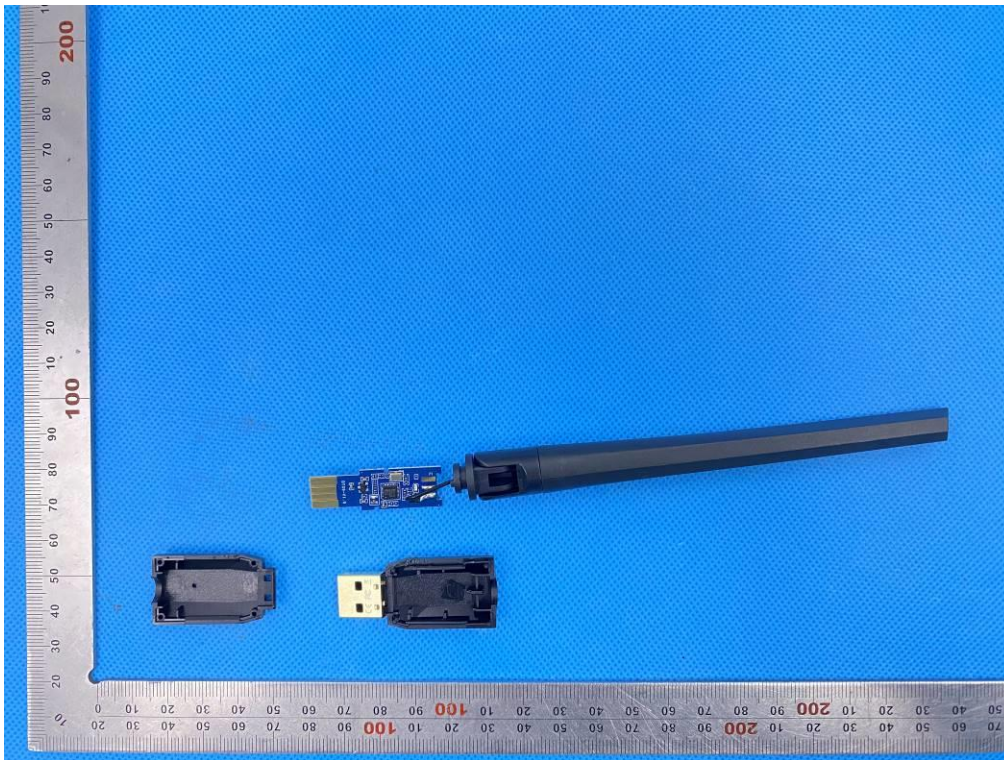
RIGHT VIEW OF EUT



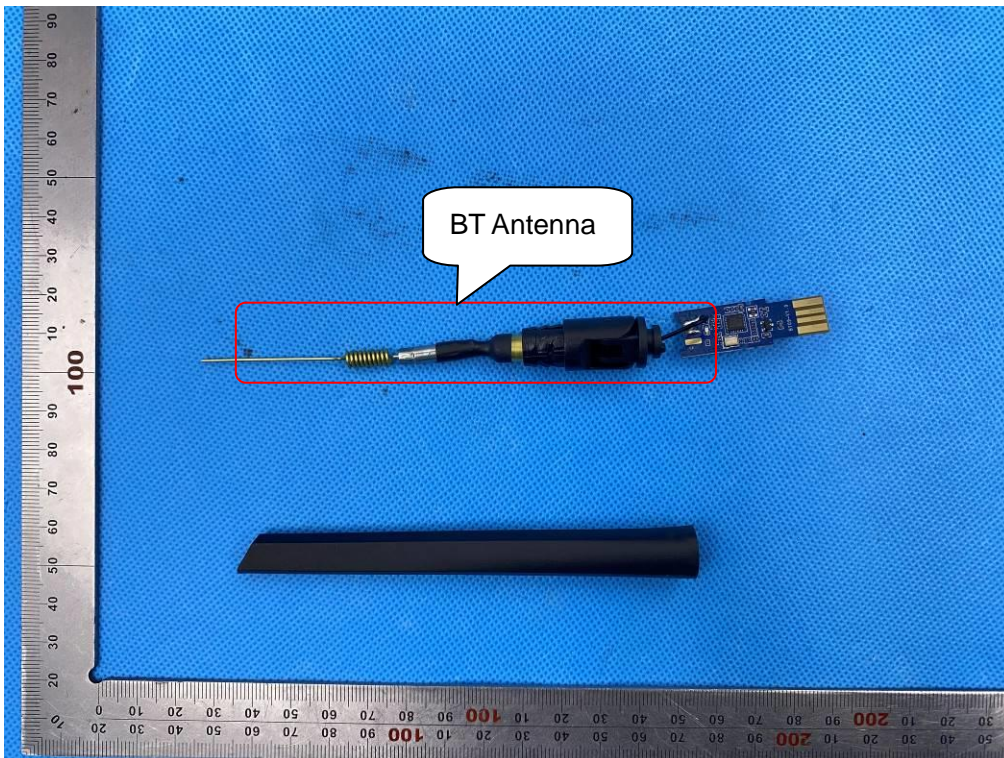
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OPEN VIEW OF EUT (FIGURE 1)



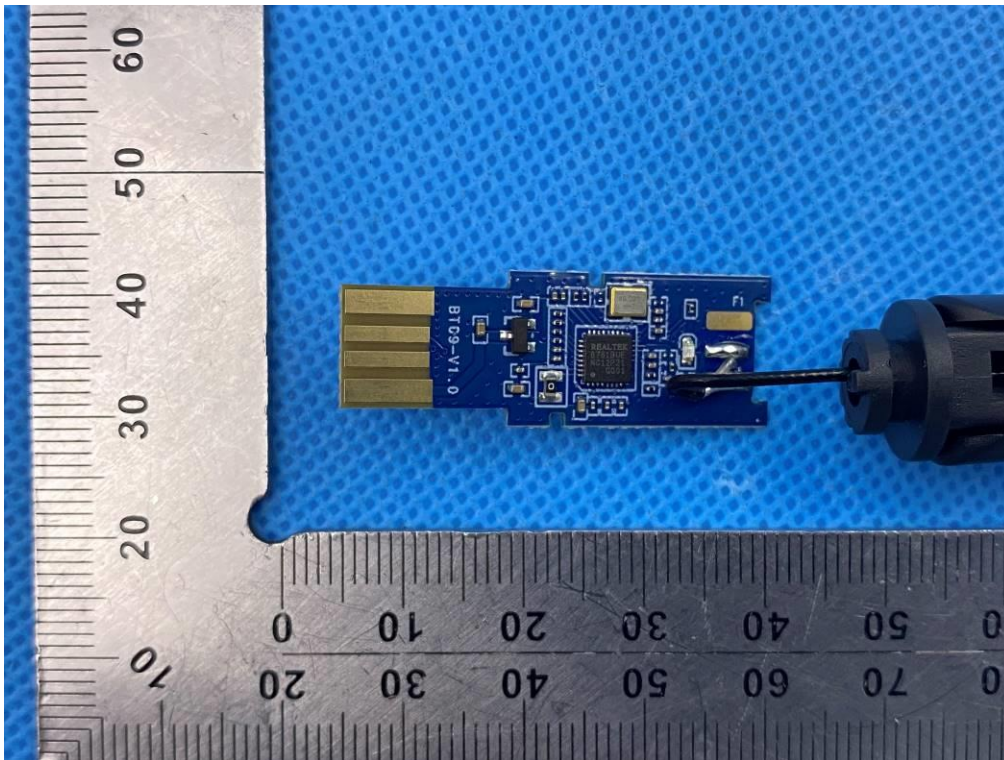
OPEN VIEW OF EUT (FIGURE 2)



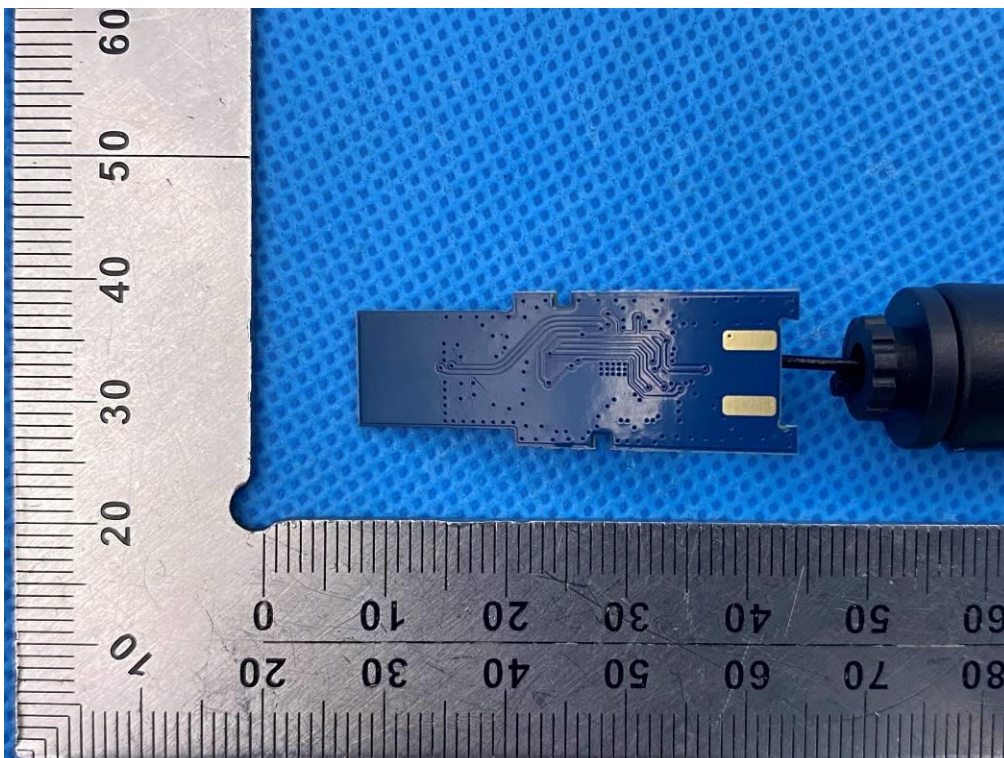
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INTERNAL VIEW OF EUT (FIGURE 1)



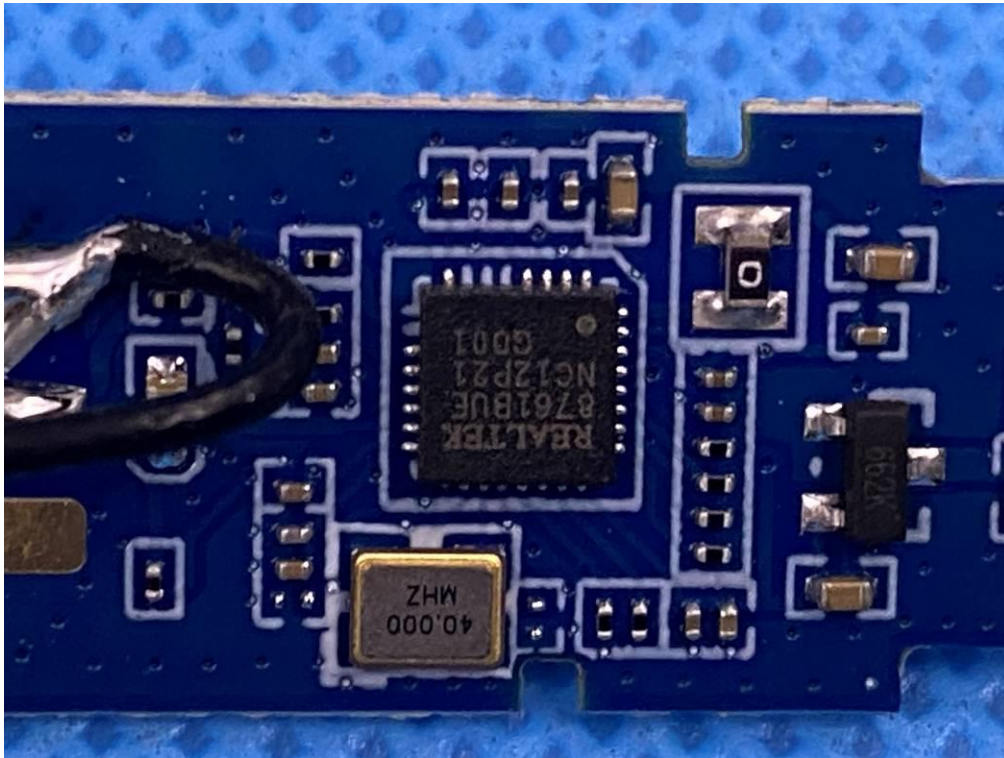
INTERNAL VIEW OF EUT (FIGURE 2)



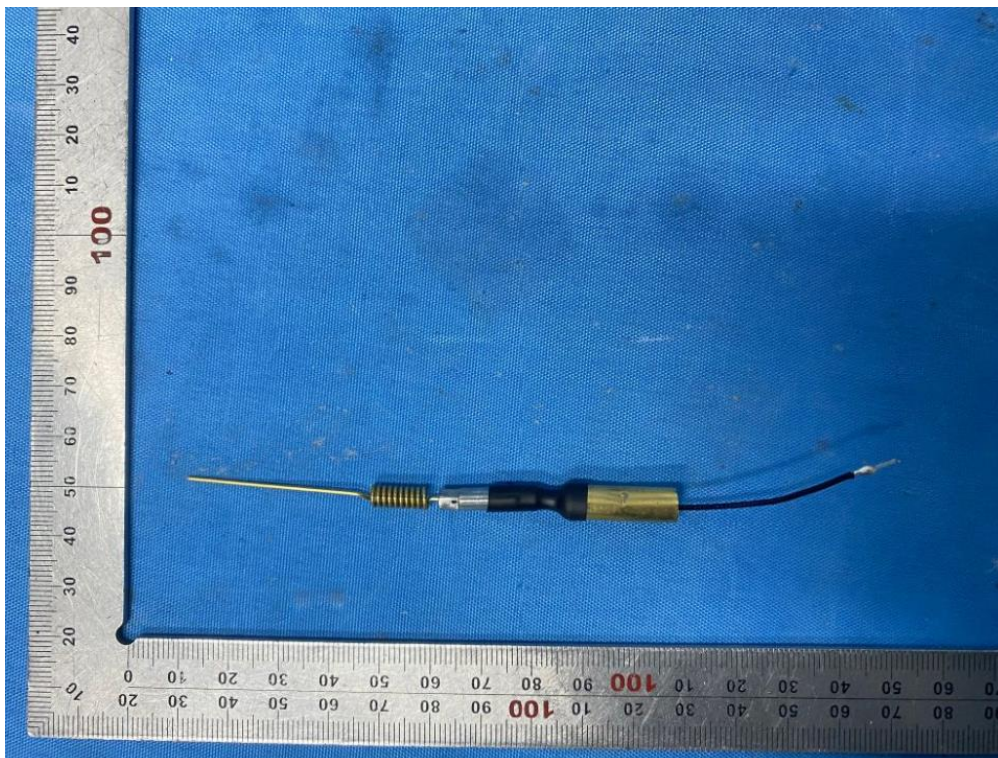
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INTERNAL VIEW OF EUT (FIGURE 3)



INTERNAL VIEW OF EUT (FIGURE 4)



**----END OF REPORT----**

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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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