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# Antenna Test Report

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Report No.: AGC08389250802PA01

**PRODUCT DESIGNATION** : Smart Android Car TV  
**BRAND NAME** : N/A  
**MODEL NAME** : AT160  
**APPLICANT** : Shenzhen Kejinming Electronic Co.,Ltd  
**DATE OF ISSUE** : Sep. 08, 2025  
**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	/	Sep. 08, 2025	Valid	Initial Release

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## 1. General Information

Applicant	Shenzhen Kejinming Electronic Co.,Ltd
Address	Floor1-6,BlockB7,YintianIndustrialPark,Yantian Community,XixiangStreet,Bao'anDist.,Shenzhen,Guangdong,China
Manufacturer	Shenzhen Kejinming Electronic Co.,Ltd
Address	Floor1-6,BlockB7,YintianIndustrialPark,Yantian Community,XixiangStreet,Bao'anDist.,Shenzhen,Guangdong,China
Factory	Shenzhen Kejinming Electronic Co.,Ltd
Address	Floor1-6,BlockB7,YintianIndustrialPark,Yantian Community,XixiangStreet,Bao'anDist.,Shenzhen,Guangdong,China
Product Designation	Smart Android Car TV
Brand Name	N/A
Test Model	AT160
Series Model(s)	AT133, AT123, AT110, AT101
Difference Description	All the same except the model name.
Date of receipt of test item	Aug. 18, 2025
Date of Test	Aug. 18, 2025~Sep. 01, 2025
Test Report Form No	AGCER-OTA- Passive -V1

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

Prepared By	<u>Thea Huang</u>	
	Thea Huang (Project Engineer)	Sep. 08, 2025
Reviewed By	<u>Jack Gui</u>	
	Jack Gui (Reviewer)	Sep. 08, 2025
Approved By	<u>Angela Li</u>	
	Angela Li (Authorized Officer)	Sep. 08, 2025

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## 2. Product Technical Information

Frequency Range	2400MHz-2500MHz
Test Frequency	2400MHz;2410MHz,2420MHz,2430MHz,2440MHz,2450MHz,2460MHz,2470MHz,2480MHz,2490MHz, 2500MHz
Antenna Type	Ceramic antenna
Dimensions	3mm 8mm
Impedance	50Ω
Maximum test values	Gain: -4.433dBi; Efficiency: 5.064%; VSWR: 1.082 U

## 3. Test Summary List

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

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## 4. Test Environment

### 4.1 Address of The Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

### 4.2 Test Facility

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

#### **CNAS-Lab Code: L5488**

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories.)

#### **A2LA-Lab Cert. No.: 5054.02**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

#### **FCC-Registration No.: 975832**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

#### **IC-Registration No.: 24842(CAB identifier: CN0063)**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

#### 4.3 Environmental Conditions

	Normal Conditions
Temperature range (°C)	15 - 35
Relative humidity range	20 % - 75 %
Pressure range (kPa)	86 - 106
Power supply	DC 12V from adapter or DC 12V from Car charger

#### 4.4 Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty
Uncertainty of VSWR	$U_c = \pm 1.5 \text{ dB}$
Uncertainty of Gain	$U_c = \pm 0.8 \text{ dB}$

#### 4.5 List of Equipment Used

Used	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
<input checked="" type="checkbox"/>	Antenna Measurement System	ETS-Lindgren	AMS-8600	N/A	2024.11.27	2025.11.26
<input checked="" type="checkbox"/>	Network Analyzer	R&S	101443	N/A	2025.07.24	2026.07.23

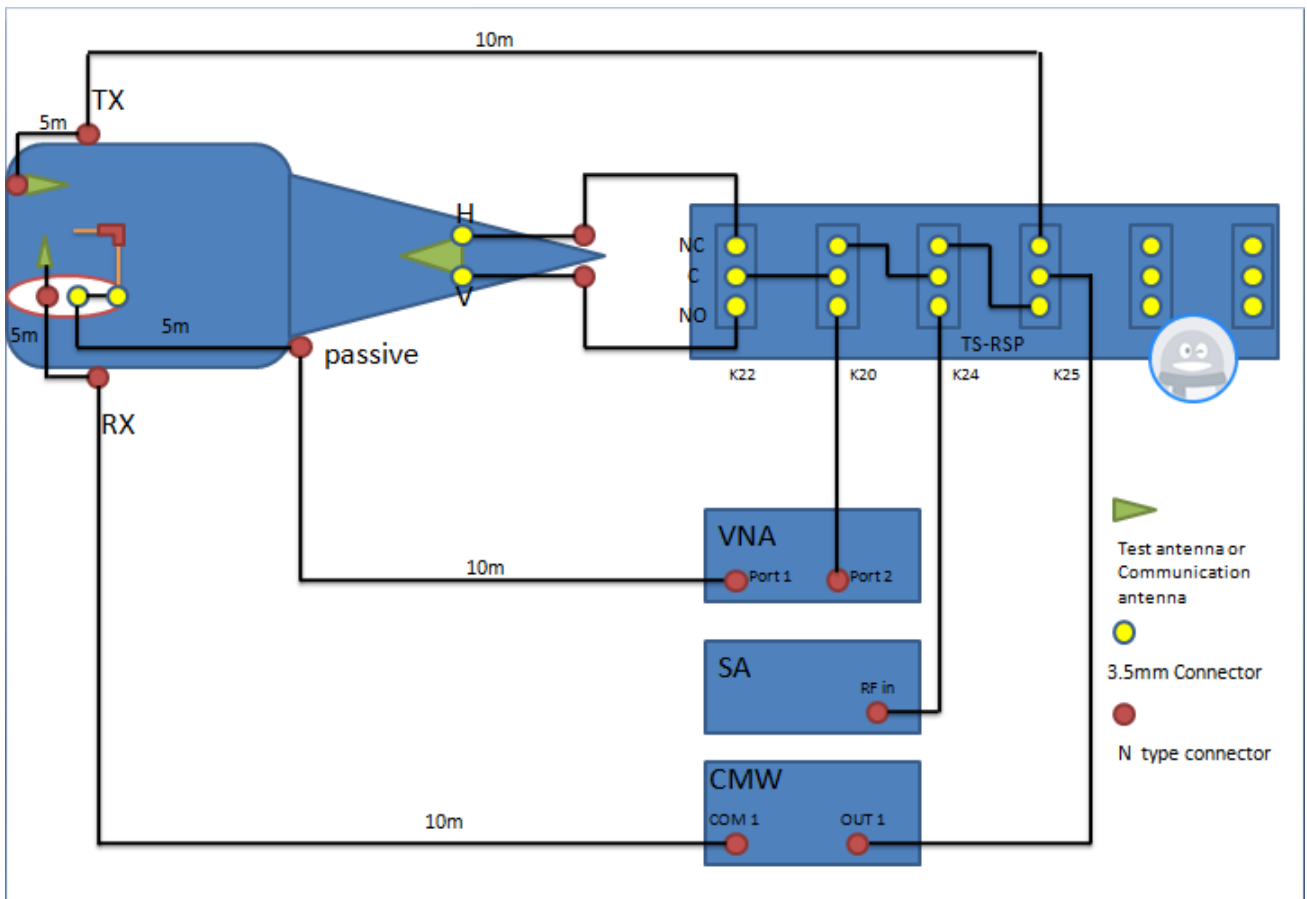
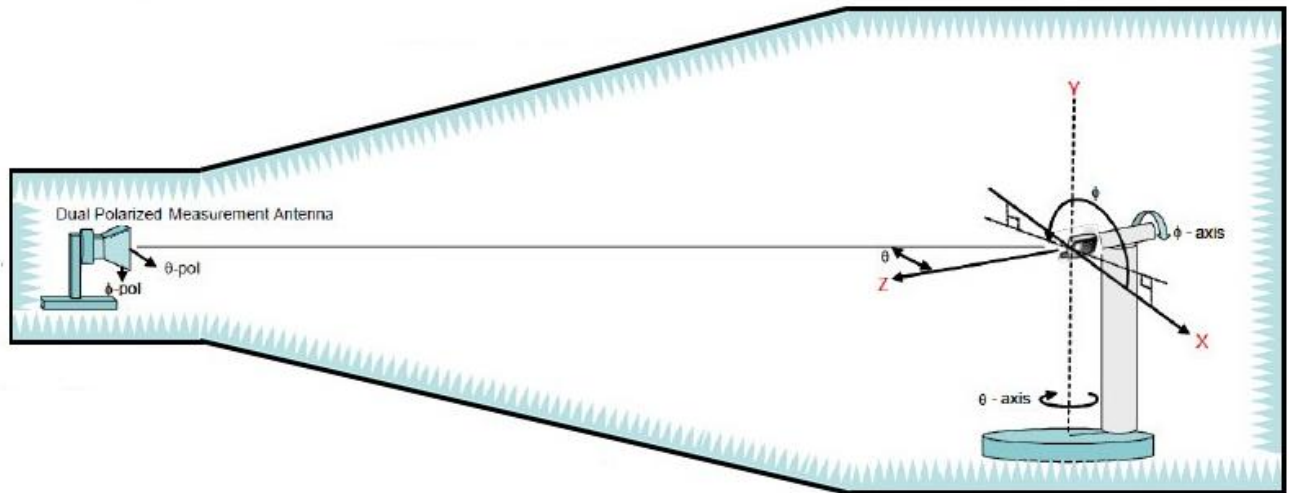
Test Software				
Used	Test Equipment	Manufacturer	Model No.	Version Information
<input checked="" type="checkbox"/>	Test software	ETS-Lindgren	EMQuest	Ver V1.12

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## 5. Antenna Passive Measurement Results

## 5.1 Test Setup



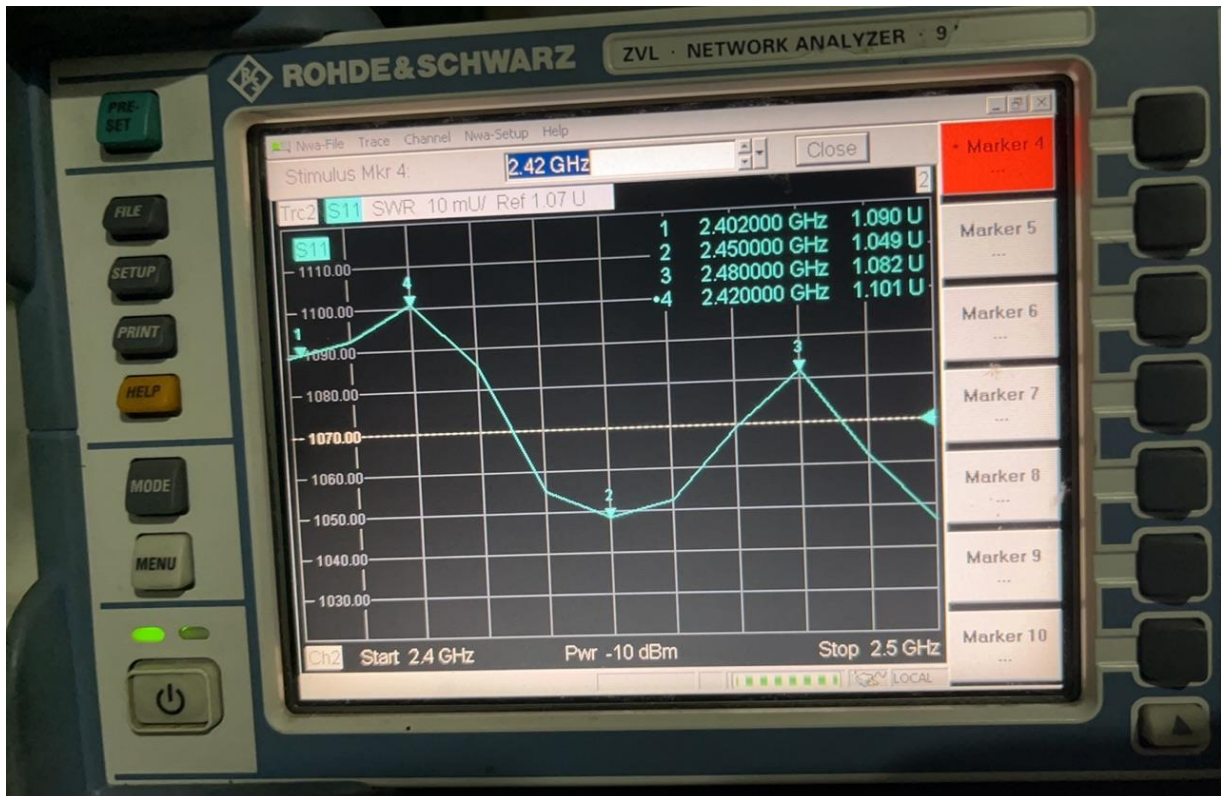
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## 5.2 VSWR Test Result

Frequency (MHz)	VSWR
2402	1.090 U
2450	1.049 U
2480	1.082 U
2420	1.101 U



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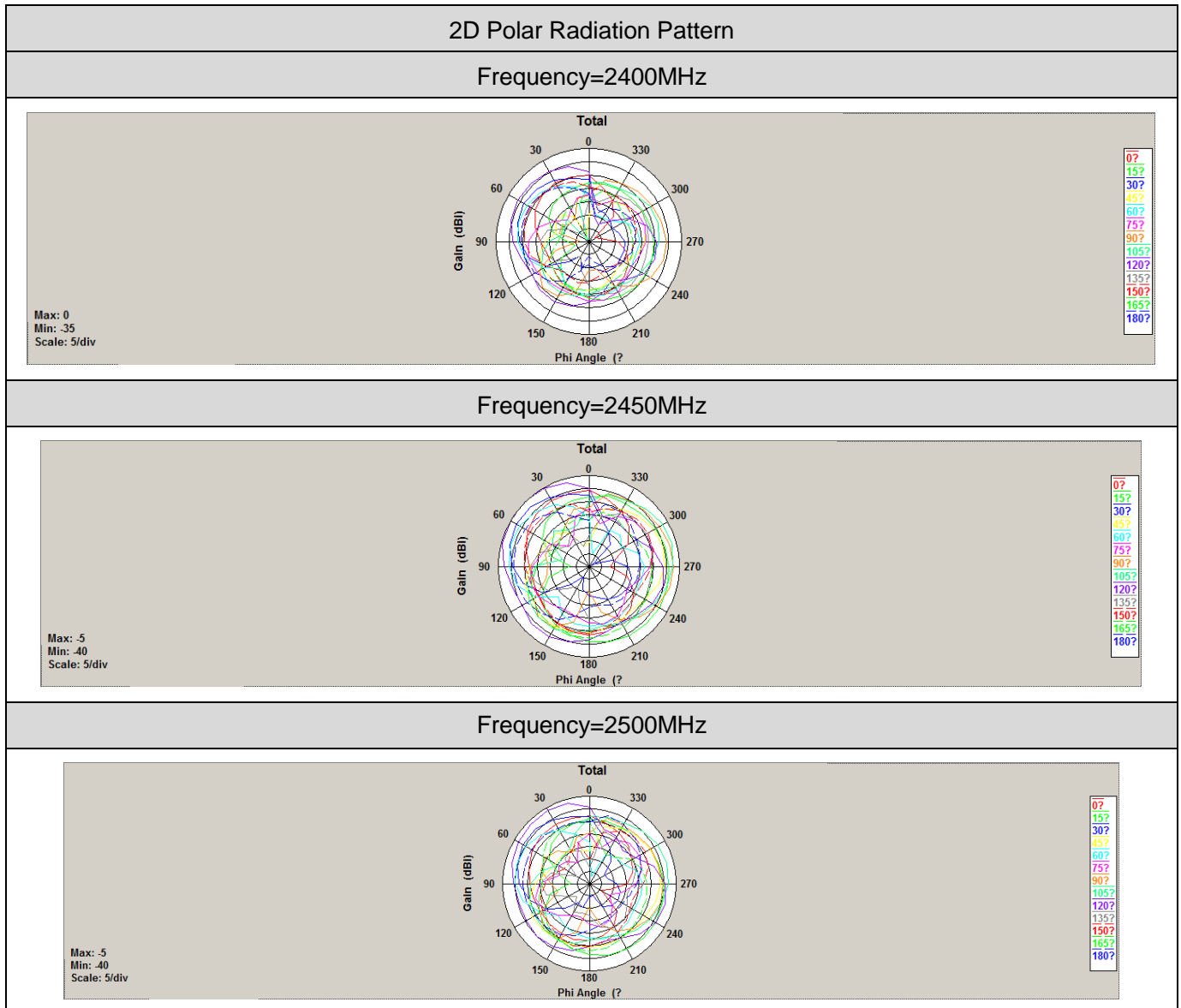
### 5.3 Gain and Efficiency Test Result

Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2400	-12.955	5.064	<b>-4.433</b>
2410	-13.129	4.865	-4.530
2420	-13.430	4.540	-4.845
2430	-13.341	4.634	-4.806
2440	-13.443	4.526	-4.985
2450	-13.599	4.366	-5.174
2460	-13.552	4.414	-5.025
2470	-13.842	4.128	-5.256
2480	-13.832	4.138	-5.202
2490	-14.104	3.887	-5.442
2500	-14.849	3.274	-6.484

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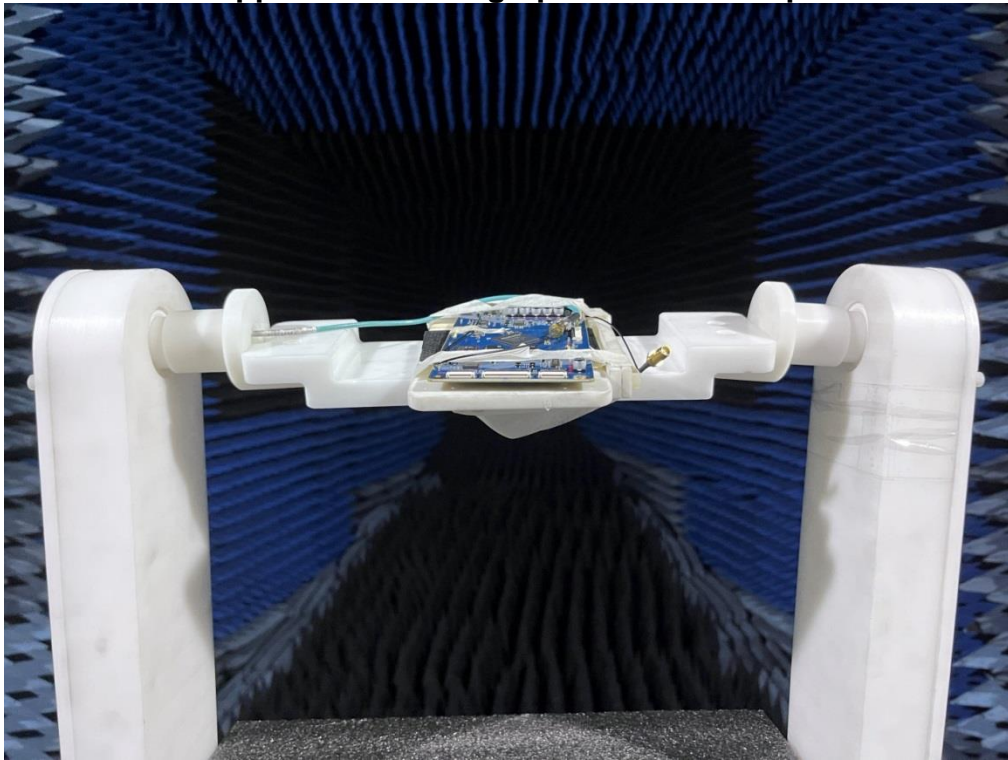
## 5.4 Radiation Pattern Diagram



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**Appendix I: Photographs of Test Setup**

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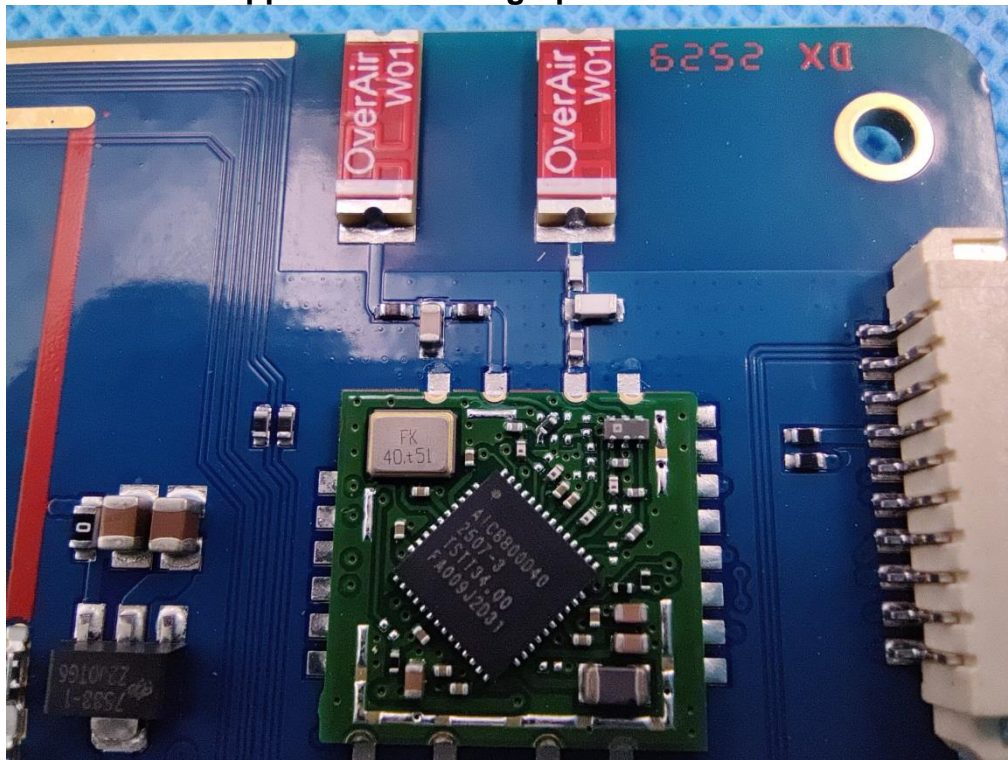
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## Appendix II: Photographs of Test EUT



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2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
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.

**-----End of Report-----**

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