

Antenna Test Report

Report No.: AGC05803260104PA01

PRODUCT DESIGNATION : Smart Tag

BRAND NAME : DNS, NOV00

MODEL NAME : SH-302A, NATD-302A1, NATD-302A2, NGTD-302G1,
NGTD-302G2, NFTD-302AG

APPLICANT : SHENZHEN DNS INDUSTRIES CO., LTD.

DATE OF ISSUE : Mar. 25, 2026

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	/	Mar. 25, 2026	Valid	Initial Release

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1. General Information

Applicant	SHENZHEN DNS INDUSTRIES CO., LTD.
Address	23/F Building A, Shenzhen International Innovation Center, No. 1006 Shennan Road, Futian, Shenzhen, 518026, China
Manufacturer	SHENZHEN DNS INDUSTRIES CO., LTD.
Address	23/F Building A, Shenzhen International Innovation Center, No. 1006 Shennan Road, Futian, Shenzhen, 518026, China
Factory	Factory 1: HUIZHOU DNS TECHNOLOGY CO., LTD. Factory 2: D AND S INDUSTRIES (PHILIPPINES) CORPORATION
Address	Address 1: 5 Dongshun South Road, Dongjiang Hi-tech Industrial Park, Zhongkai Hi-tech Zone, Huizhou City, Guangdong, China Address 2: 1 to 5 Orient Goldcrest Suntrust Ecotown Building 2, Lot 8 Block 8, Sahud Ulan, Tanza, Region IV-A, Cavite, Philippines
Product Designation	Smart Tag
Brand Name	DNS, NOVOO
Test Model	SH-302A
Series Model(s)	NATD-302A1, NATD-302A2, NGTD-302G1, NGTD-302G2, NFTD-302AG
Difference Description	See discrepancy statement
Date of receipt of test item	Jan. 13, 2026
Date of Test	Jan. 13, 2026 to Mar. 25, 2026
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

Thea Huang

Thea Huang
(Project Engineer)

Mar. 25, 2026

Reviewed By

Bibo Zhang

Bibo Zhang
(Reviewer)

Mar. 25, 2026

Approved By

Angela Li

Angela Li
(Authorized Officer)

Mar. 25, 2026

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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	PCB Antenna
Dimensions	5mm*16mm
Impedance	50Ω
Maximum test values	Gain: 3.572dBi; Efficiency: 25.824%; VSWR: 1.080:1

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 3.0V

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)
☒	Antenna Measurement System	ETS-Lindgren	AMS-8600	N/A	2025.11.04	2026.11.03
☒	Network Analyzer	R&S	101443	N/A	2025.07.24	2026.07.23

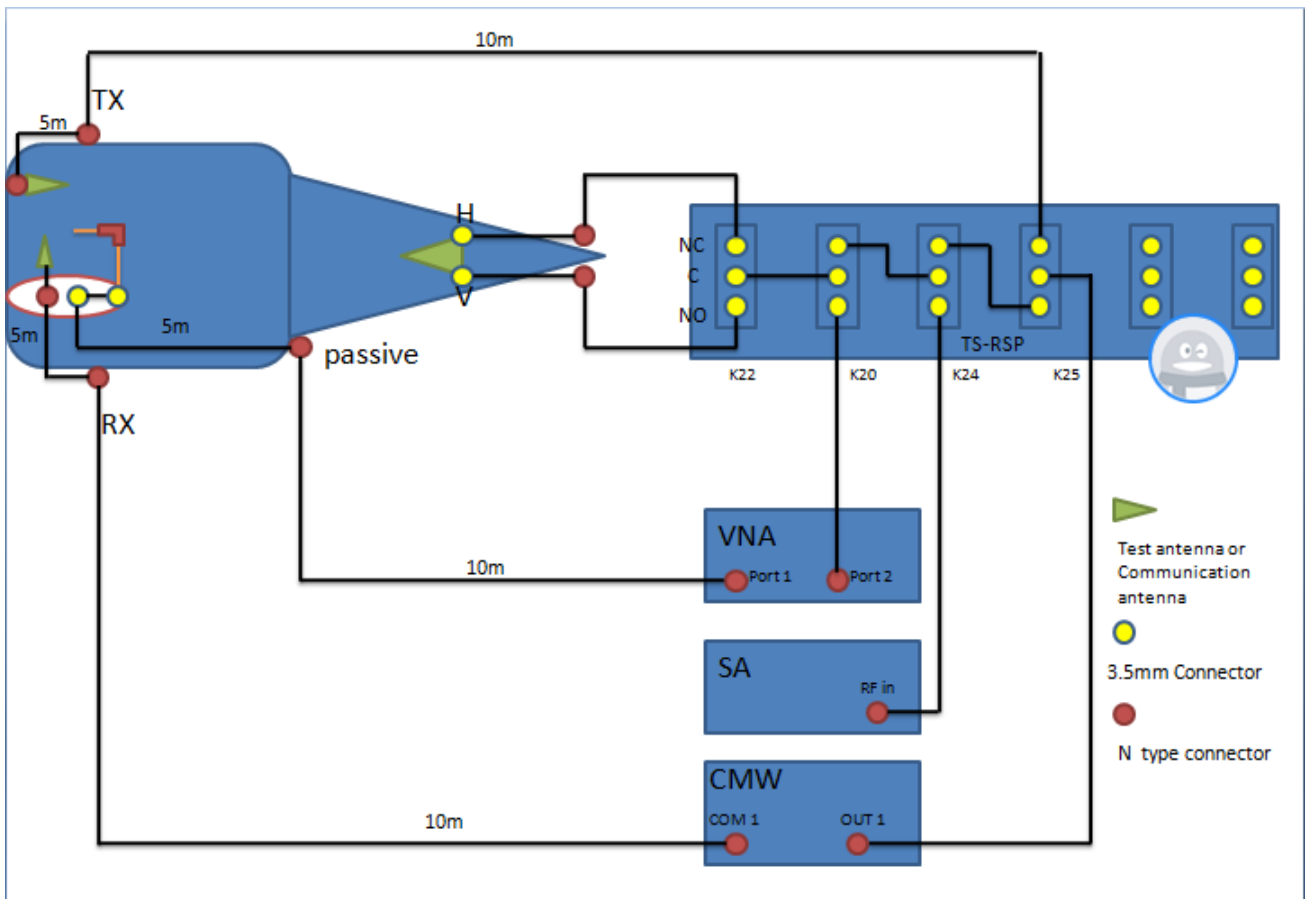
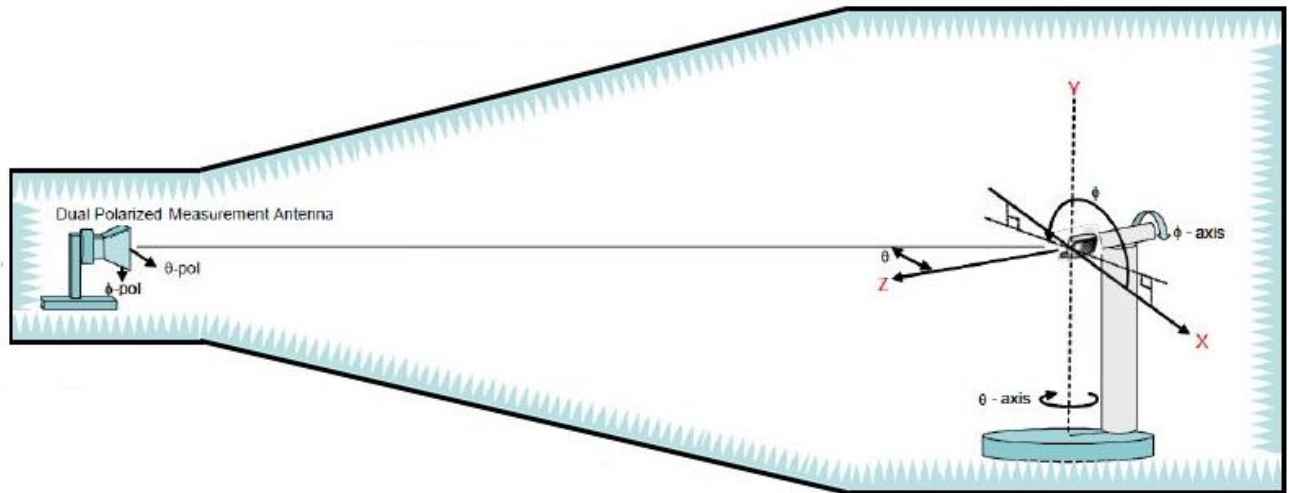
Test Software

Used	Test Equipment	Manufacturer	Model No.	Version Information
☒	Test software	ETS-Lindgren	EMQuest	Ver V1.12

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5. Antenna Passive Measurement Results

5.1 Test Setup

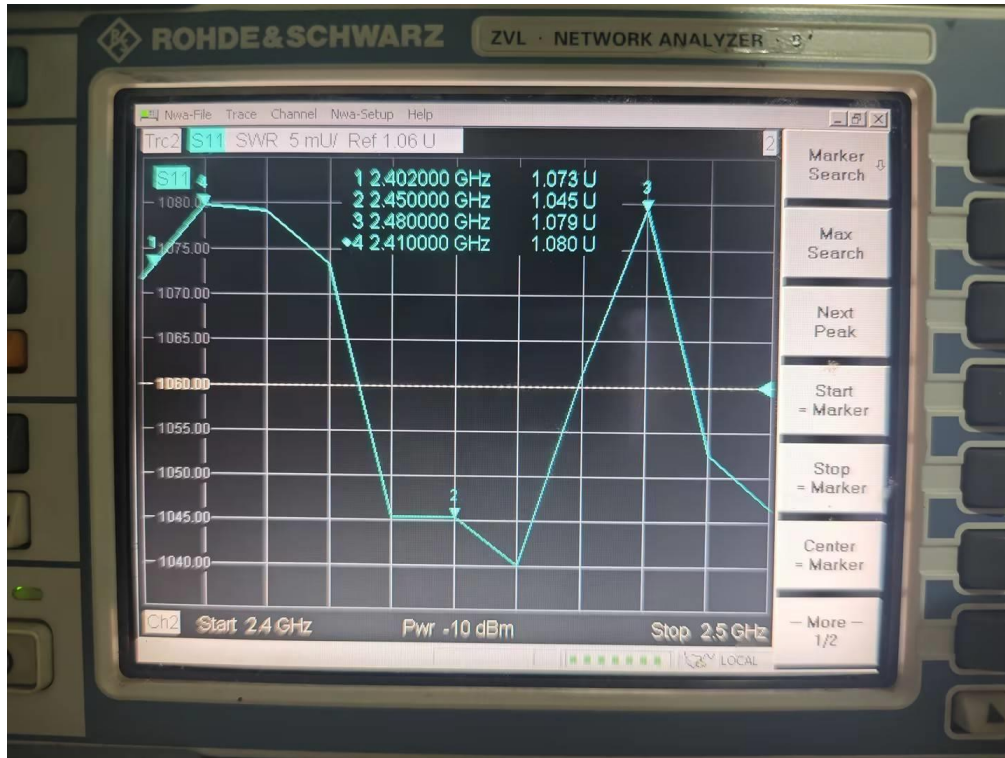


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5.2 VSWR Test Result

Frequency(MHz)	VSWR
2402MHz	1.073:1
2450MHz	1.045:1
2480MHz	1.079:1
2410MHz	1.080:1



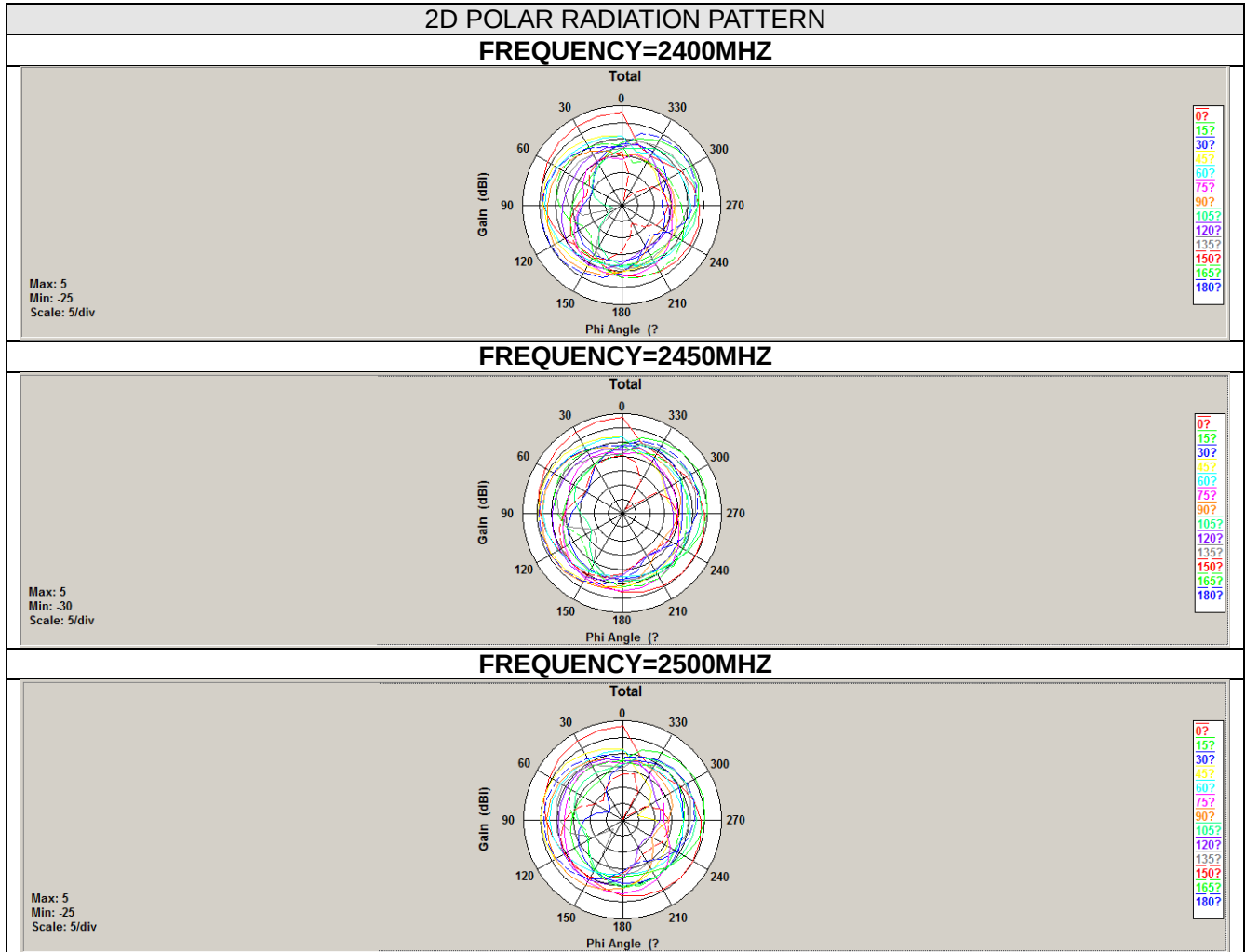
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5.3 Gain and Efficiency Test Result

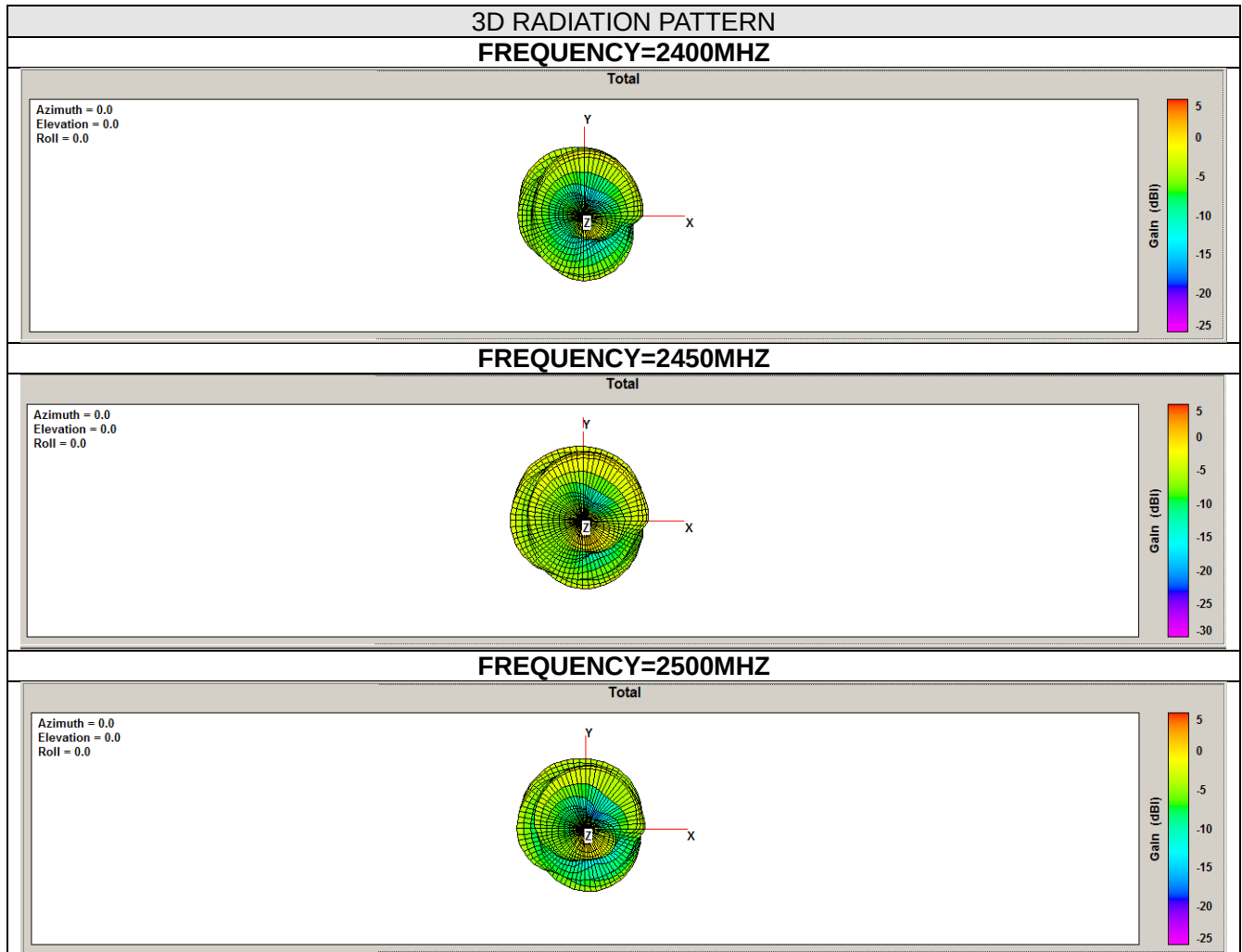
Frequency(MHz)	Efficiency(dB)	Efficiency(%)	Gain(dBi)
2400	-6.359	23.126	2.846
2410	-6.355	23.149	2.904
2420	-6.452	22.636	2.845
2430	-6.178	24.111	3.045
2440	-5.880	25.824	3.289
2450	-5.904	25.681	3.414
2460	-5.892	25.750	3.572
2470	-6.006	25.081	3.423
2480	-5.944	25.447	3.563
2490	-5.945	25.437	3.368
2500	-6.008	25.070	3.144

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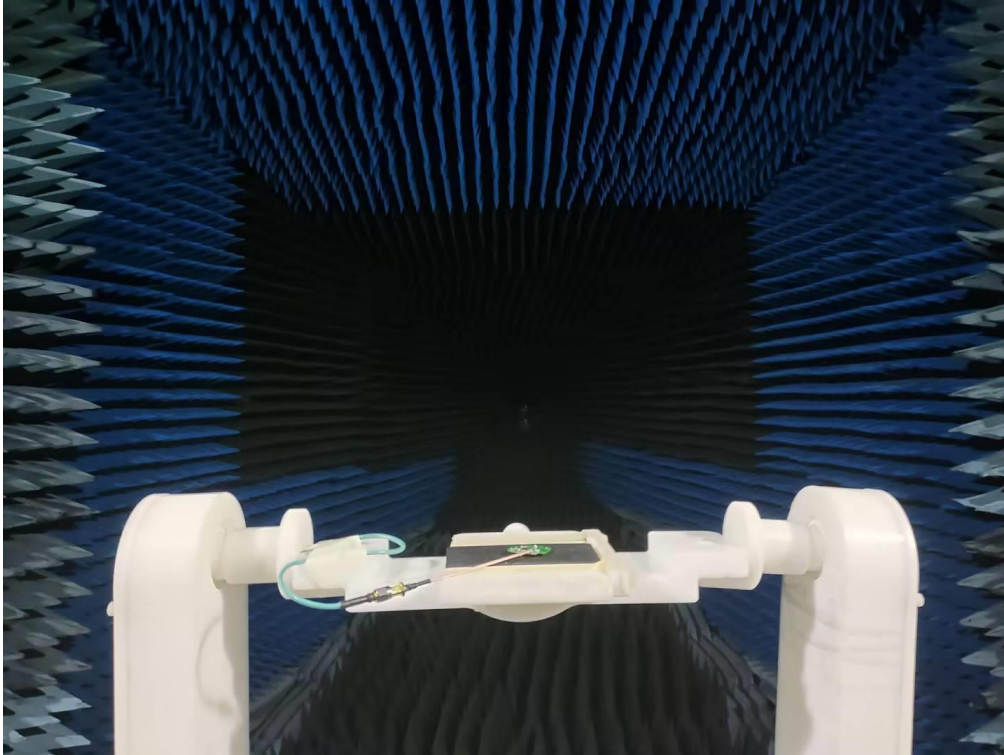
5.4 Radiation Pattern Diagram



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Appendix I: Photographs of Test Setup

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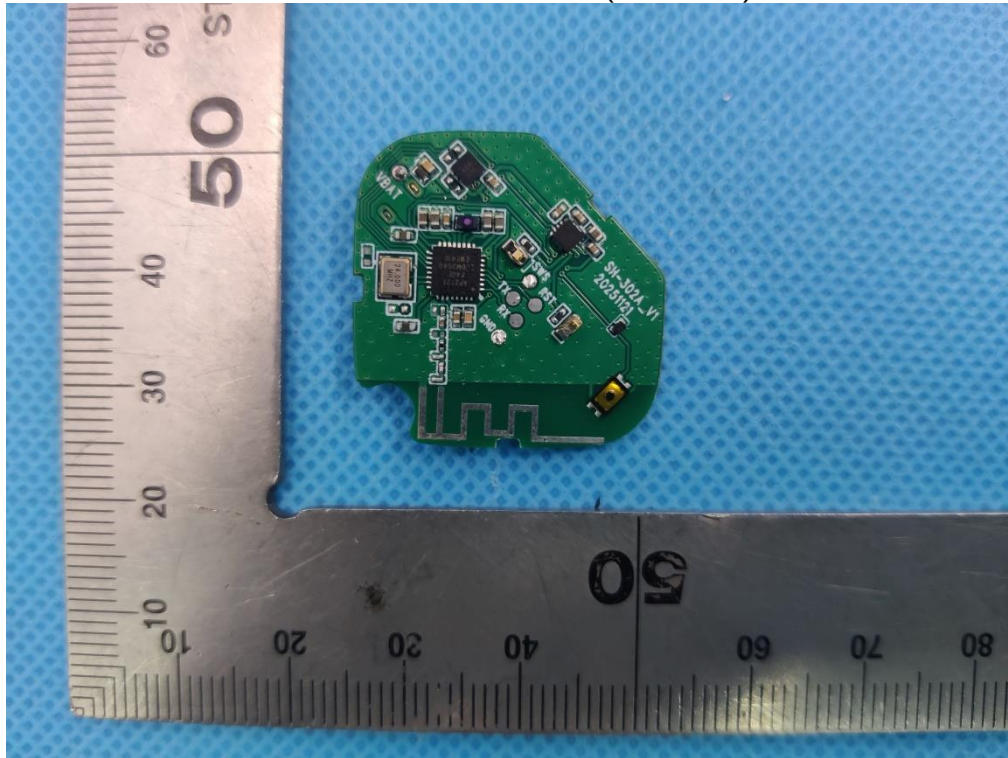
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Appendix II: Photographs of Test EUT

INTERNAL VIEW OF EUT (FIGURE 1)

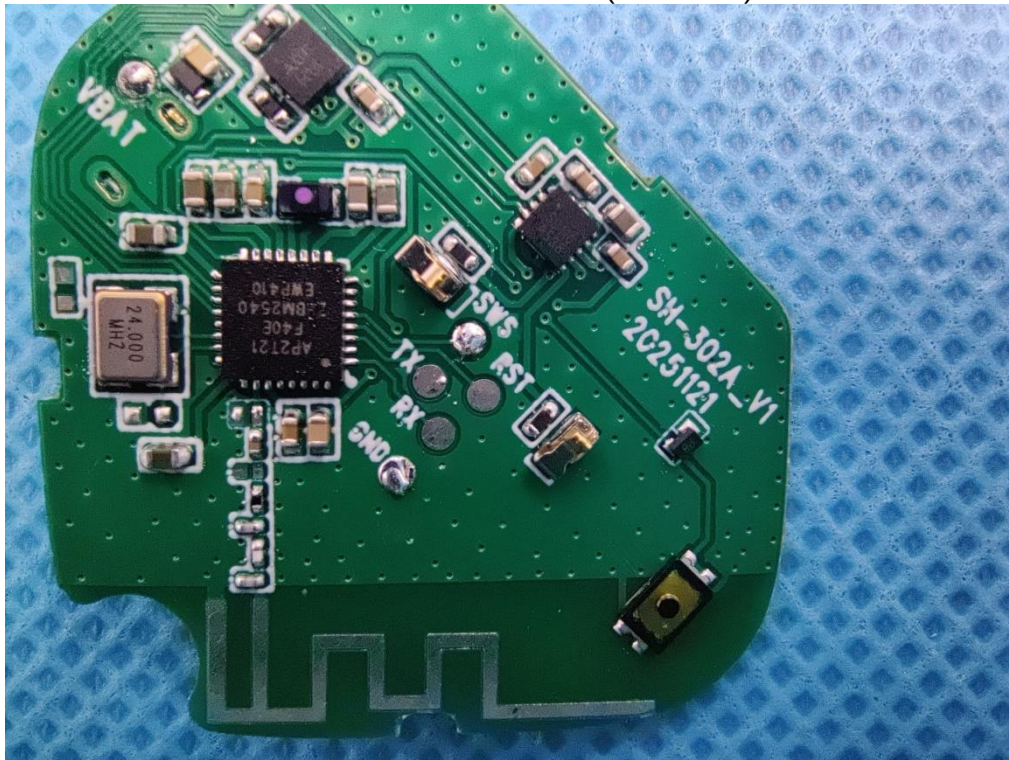


INTERNAL VIEW OF EUT (FIGURE 2)

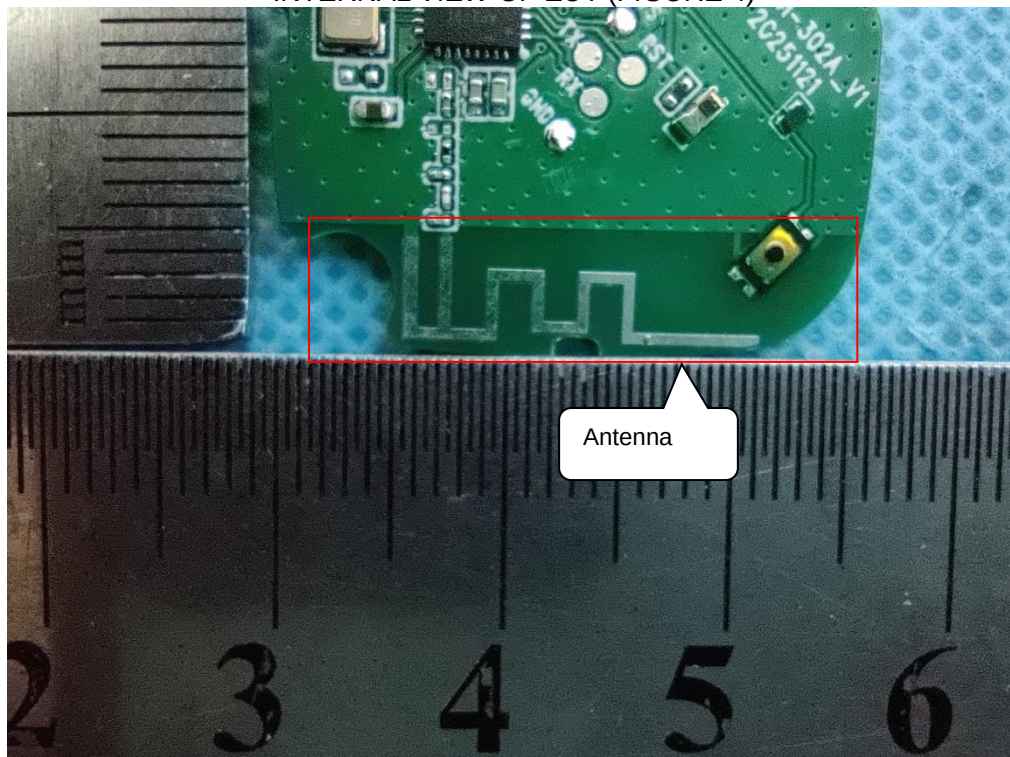


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INTERNAL VIEW OF EUT (FIGURE 3)



INTERNAL VIEW OF EUT (FIGURE 4)



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1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").
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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