
Antenna Test Report

Report No.: AGC10232231102PA01

PRODUCT DESIGNATION : VidCaster
BRAND NAME : RØDE
MODEL NAME : VidCaster
APPLICANT : RØDE
DATE OF ISSUE : Jul 30, 2024
REPORT VERSION : V1.0

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jul. 30, 2024	Valid	Initial release

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1. PRODUCT INFORMATION

General information	
Applicant	RØDE
Address	107 Carnarvon St, Silverwater, New South Wales, 2128. Australia
Manufacturer	RØDE
Address	107 Carnarvon St, Silverwater, New South Wales, 2128. Australia
Factory	RØDE
Address	107 Carnarvon St, Silverwater, New South Wales, 2128. Australia
Product Designation	VidCaster
Brand Name	RØDE
Test Model	VidCaster
Series Model	N/A
Difference Description	N/A
Date of receipt of test item	Nov. 28, 2023
Date of test	Nov. 28, 2023 to Jul. 30, 2024
Report Template	AGCRT-ER-PA/V1.0
Technical information	
Frequency Range	2400-2500MHz;5150-5850MHz
Test Frequencies	2.4GHz: 2400MHz, 2410MHz, 2420MHz, 2430MHz, 2440MHz, 2450MHz, 2460MHz, 2470MHz, 2480MHz, 2490MHz, 2500MHz 5GHz: 5150MHz, 5250MHz, 5350MHz, 5450MHz, 5550MHz, 5650MHz, 5750MHz, 5850MHz
Antenna Type	SMA antenna
Dimensions	107.5mm*9.8mm
Impedance	50Ω
Maximum test values	2.4GHz: Gain: 3.079dBi; Efficiency: 33.735%; VSWR: 1.086:1 5GHz: Gain: 1.480dBi; Efficiency: 39.352%; VSWR: 1.215:1

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

Prepared By



Jack Gui
(Project Engineer)

Jul. 30, 2024

Reviewed By



Calvin Liu
(Reviewer)

Jul. 30, 2024

Approved By



Max Zhang
(Authorized Officer)

Jul. 30, 2024

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2. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	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. 28, 2023	Nov. 27, 2024
Network Analyzer	R&S	ZVL-6	Sep. 21, 2023	Sep. 20, 2024
Test software	ETS-Lindgren	EMQuest	Ver V1.12	N/A

4. MEASUREMENT UNCERTAINTY

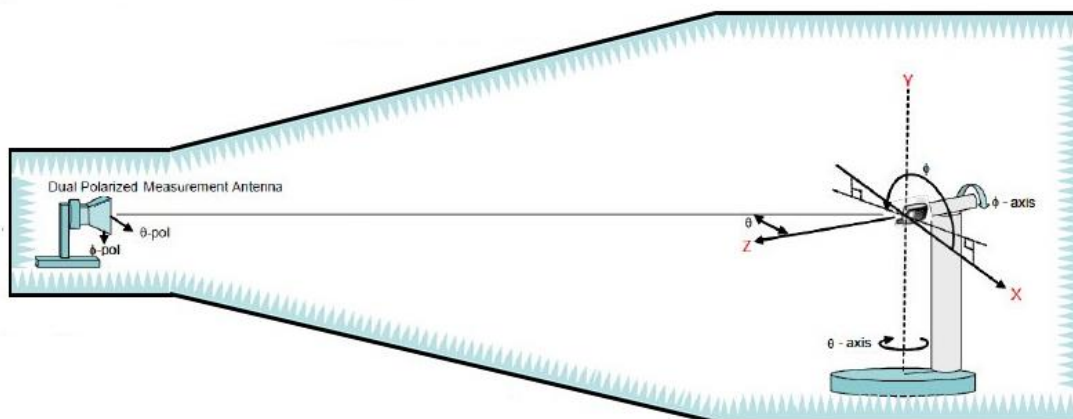
The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in measurement” (GUM) published by CISPR and ANSI.

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

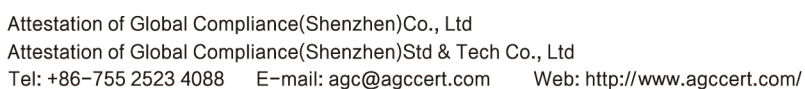
5. TEST SUMMARY LIST

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

6. TEST SETUP



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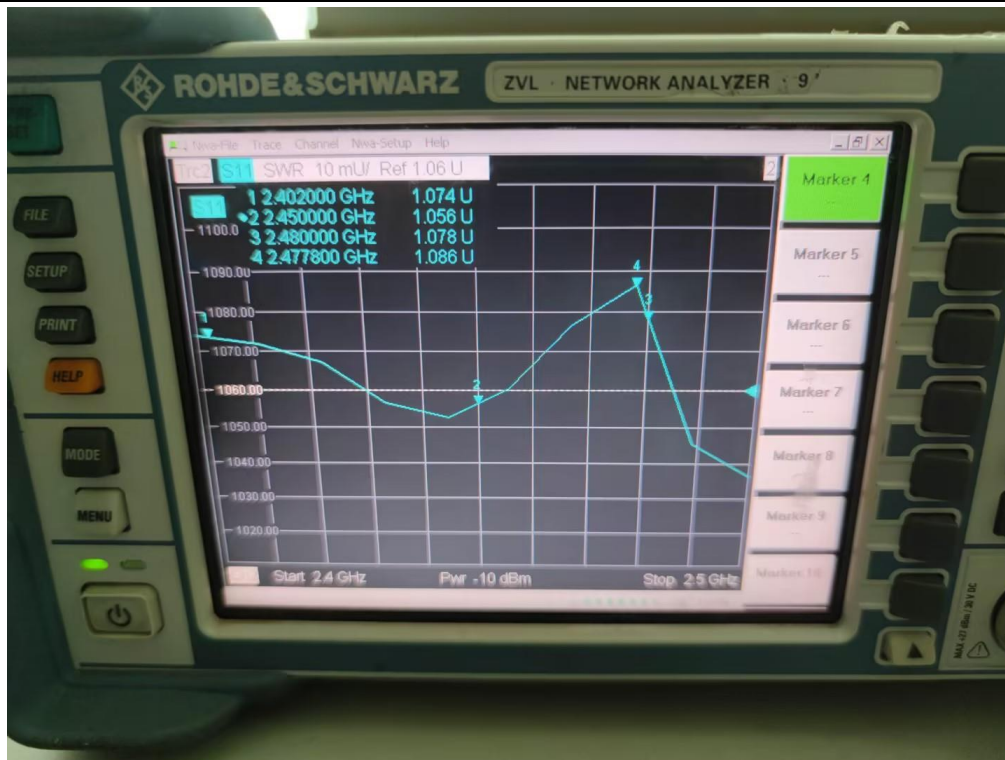


7. TEST RESULTS

7.1. VSWR

For 2.4GHz:

Frequency(MHz)	VSWR
2402	1.074:1
2450	1.056:1
2478	1.086:1
2480	1.078:1



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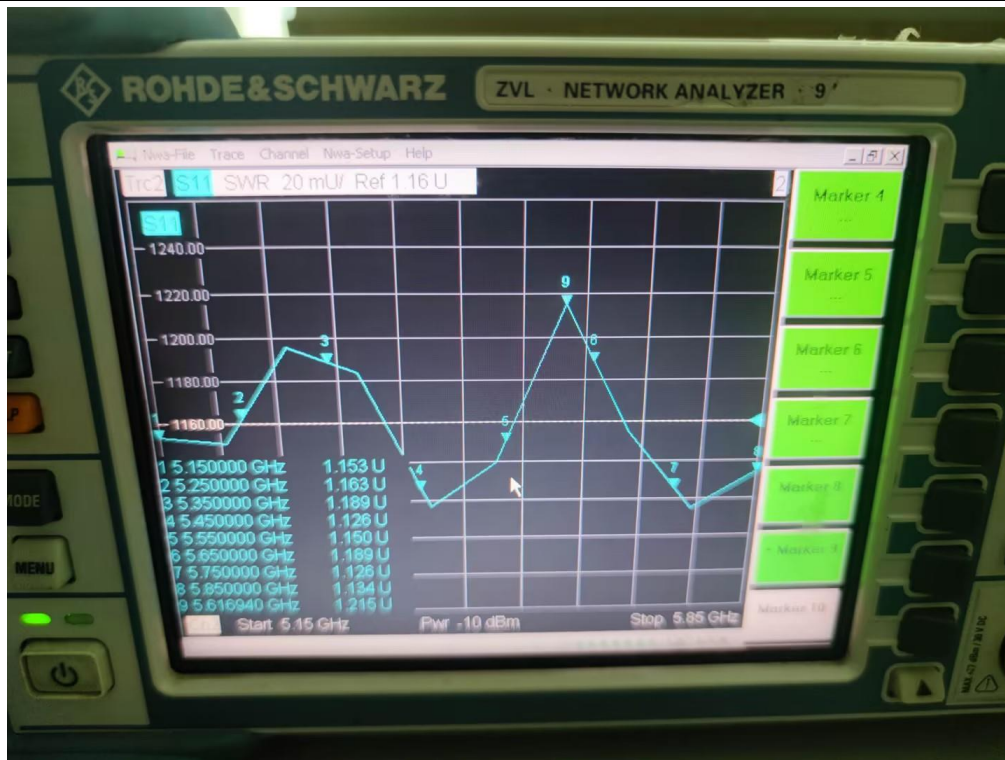
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For 5GHz:

Frequency(MHz)	VSWR
5150	1.153: 1
5250	1.163: 1
5350	1.189: 1
5450	1.126: 1
5550	1.150: 1
5650	1.189: 1
5750	1.126: 1
5850	1.134: 1
5617	1.215: 1



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7.2. GAIN AND EFFICIENCY

For 2.4GHz:

Frequency(MHz)	Efficiency(dB)	Efficiency(%)	Gain(dBi)
2400	-6.132	24.369	2.302
2410	-6.057	24.793	2.517
2420	-6.044	24.864	2.650
2430	-5.740	26.672	2.975
2440	-5.493	28.229	3.079
2450	-5.360	29.111	3.013
2460	-5.261	29.776	2.913
2470	-5.278	29.662	2.631
2480	-4.997	31.642	2.555
2490	-4.828	32.904	2.439
2500	-4.719	33.735	2.446

For 5GHz:

Frequency(MHz)	Efficiency(dB)	Efficiency(%)	Gain(dBi)
5150	-5.967	25.310	-0.607
5250	-5.189	30.280	0.379
5350	-6.385	22.989	-0.633
5450	-5.267	29.734	0.226
5550	-5.968	25.305	-0.264
5650	-4.679	34.045	0.912
5750	-4.314	37.030	1.401
5850	-4.050	39.352	1.480

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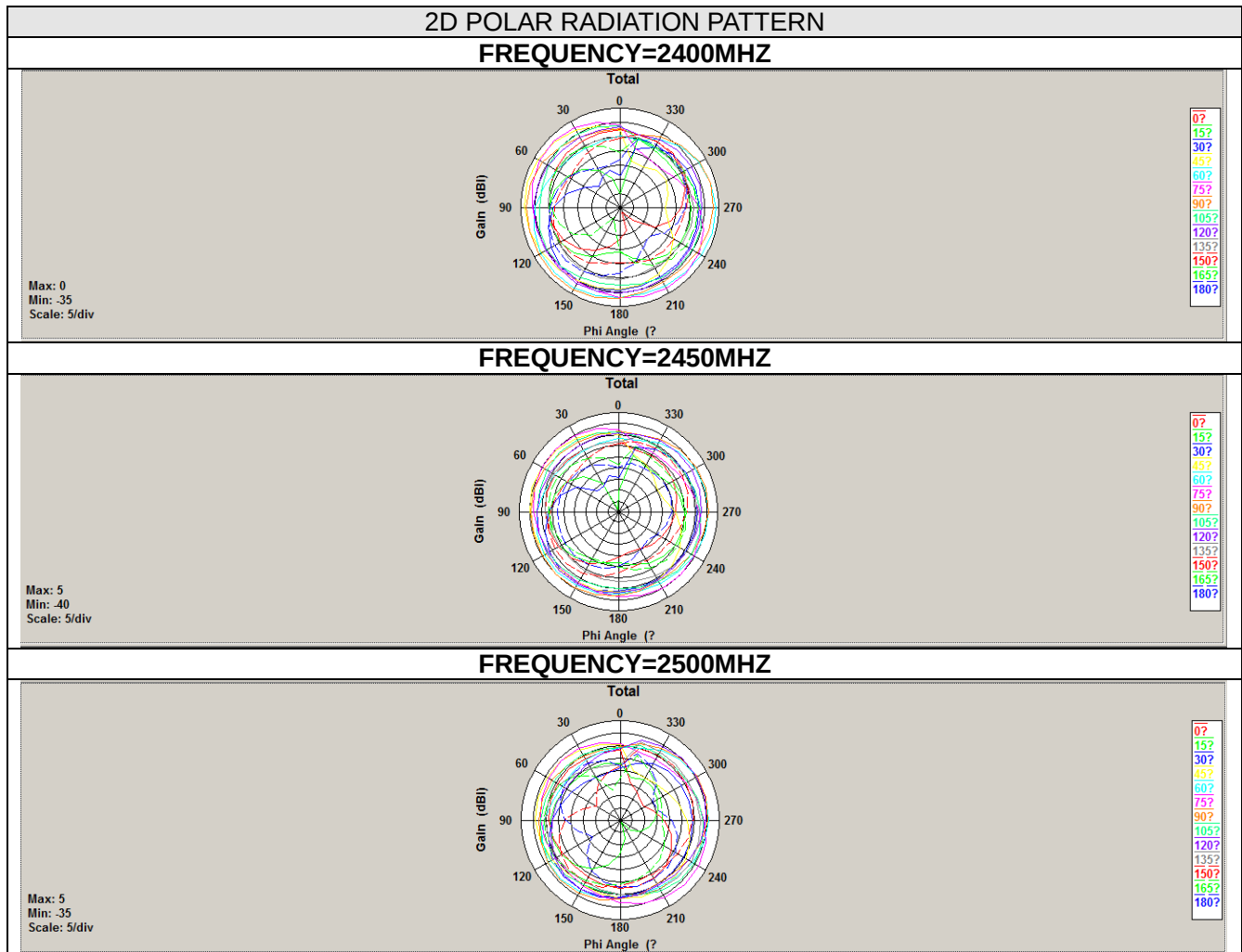
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7.3. RADIATION PATTERN

For 2.4GHz

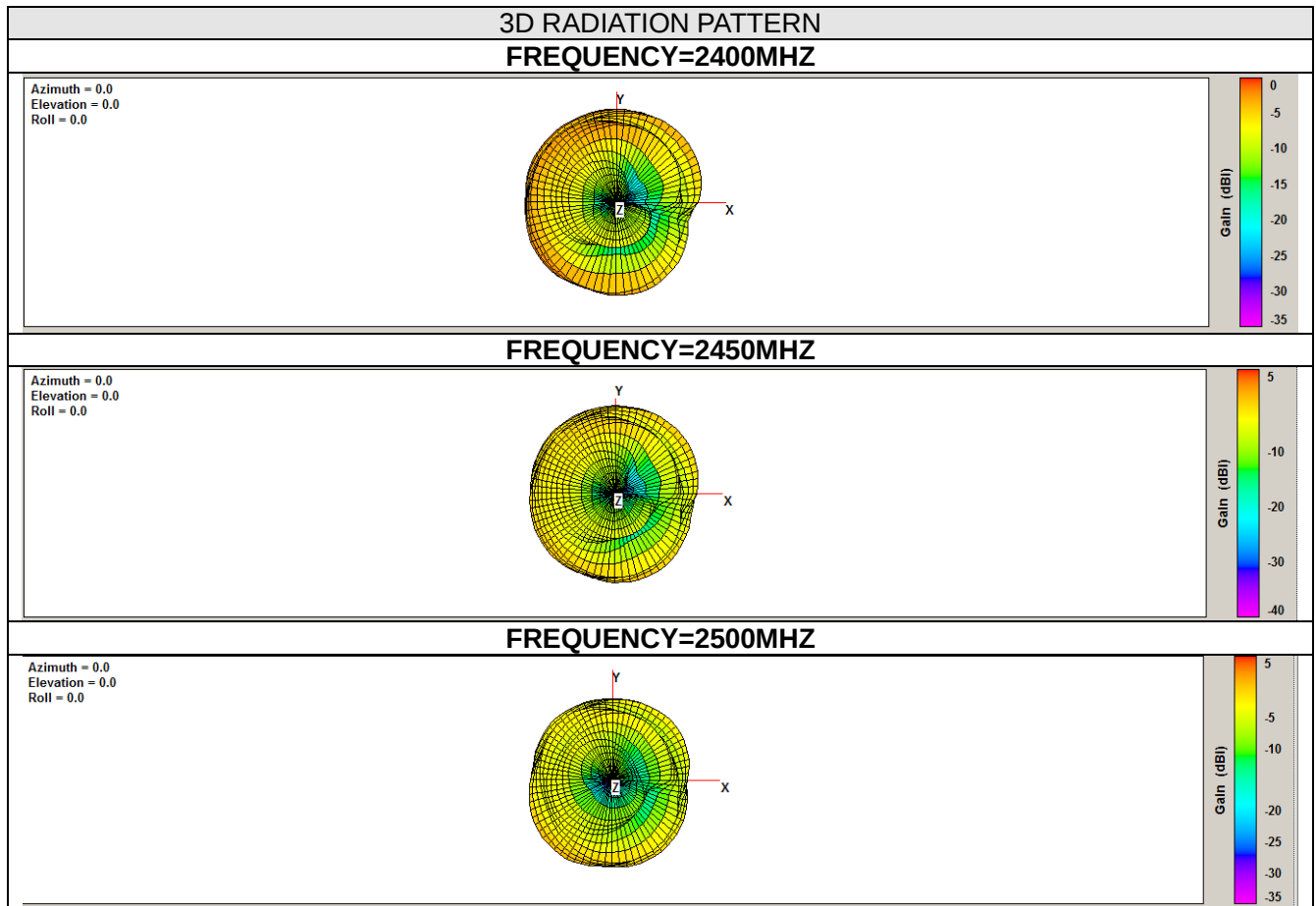


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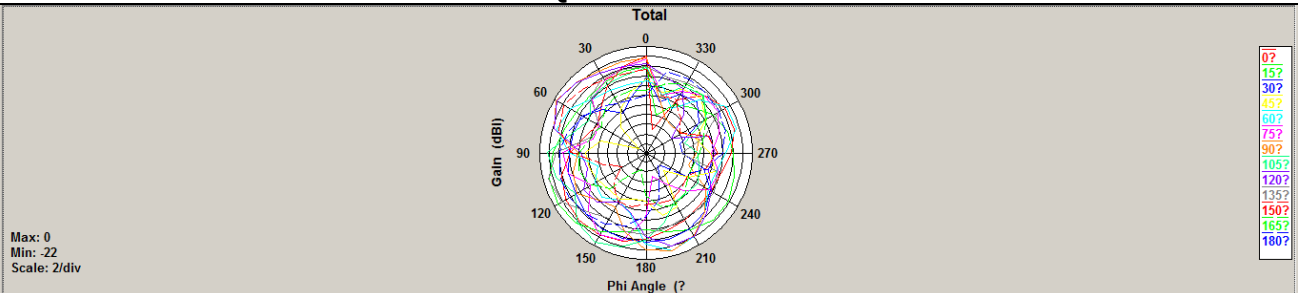
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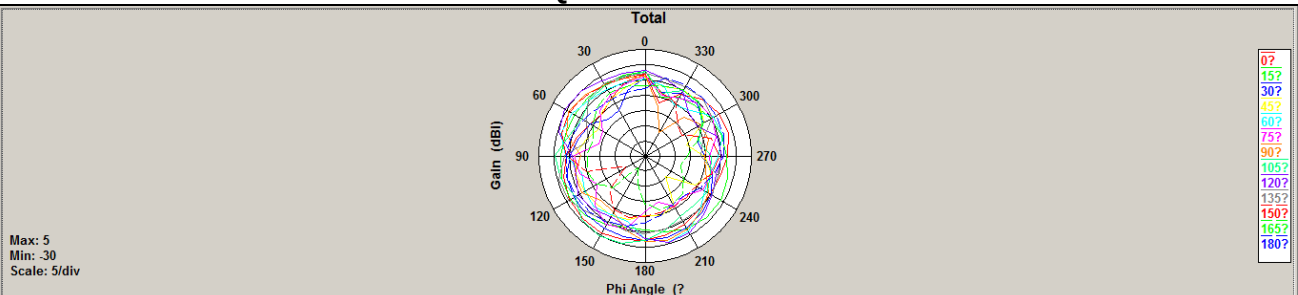
For 5GHz

2D POLAR RADIATION PATTERN

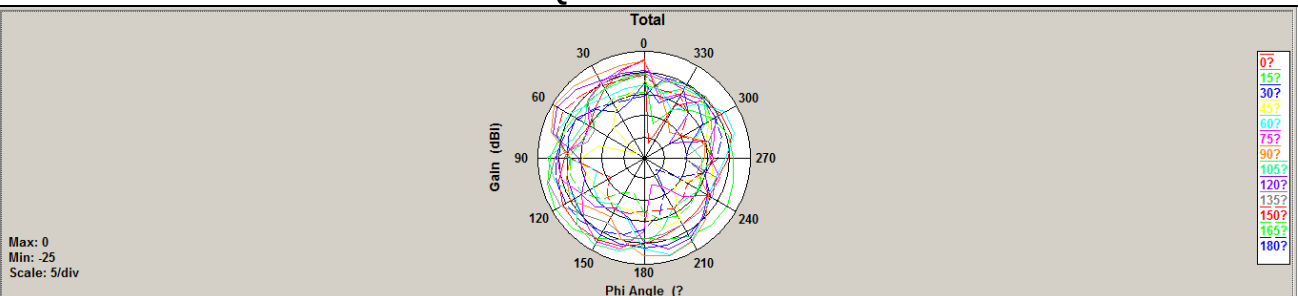
FREQUENCY=5150MHZ



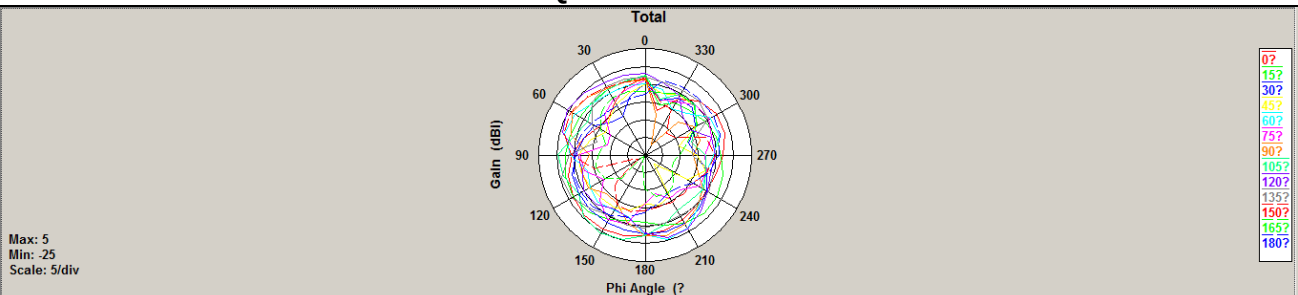
FREQUENCY=5250MHZ



FREQUENCY=5350MHZ



FREQUENCY=5450MHZ

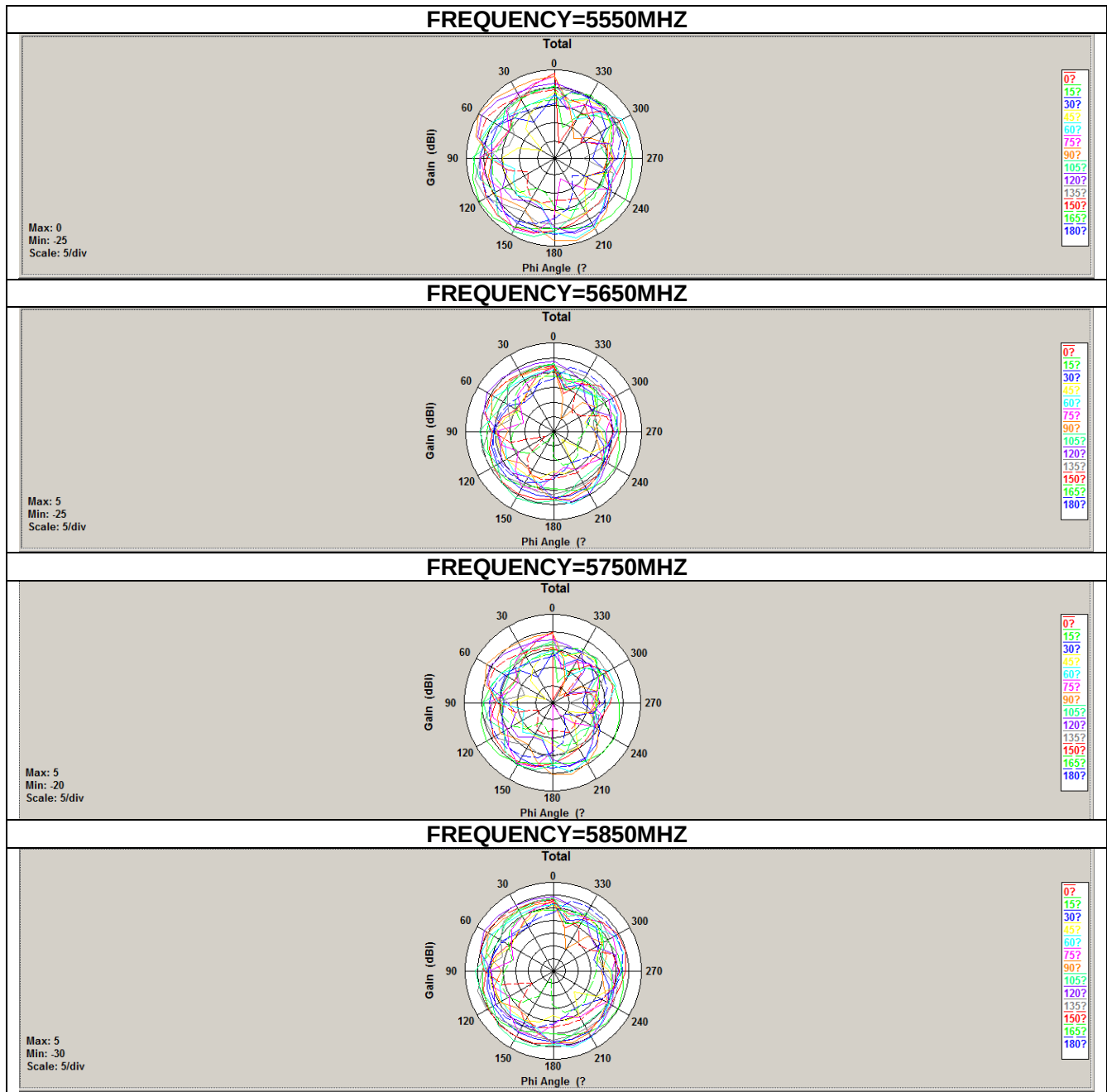


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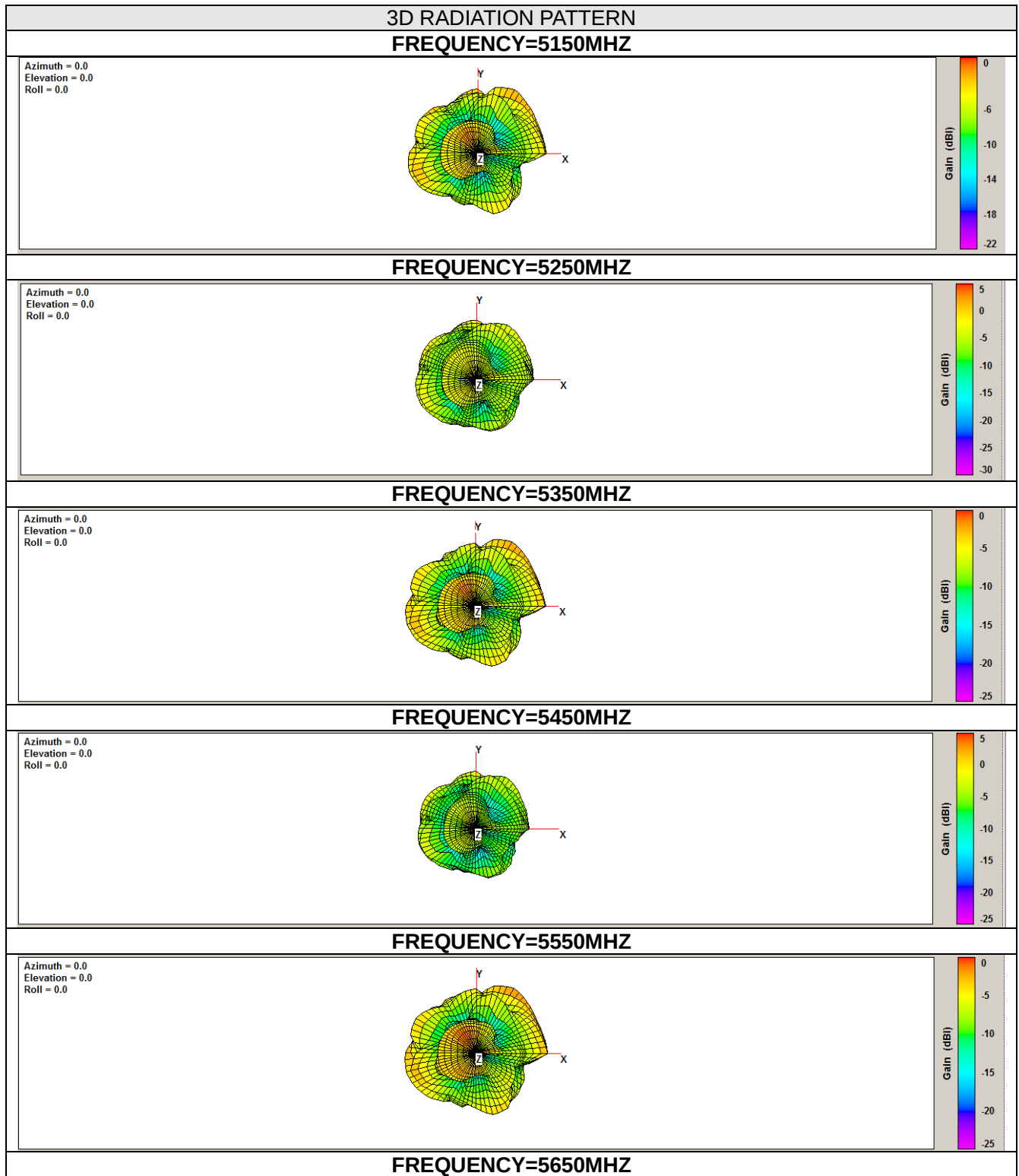


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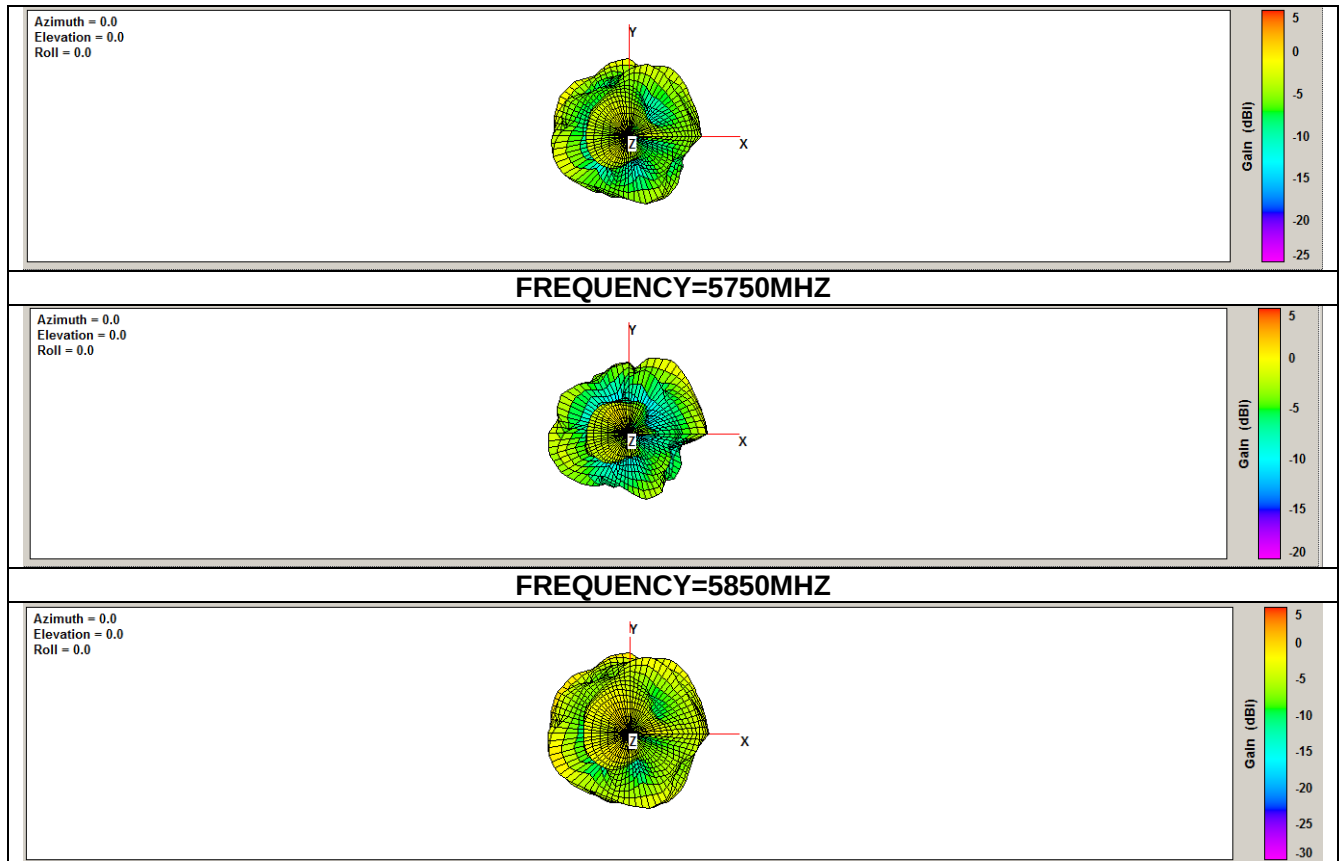


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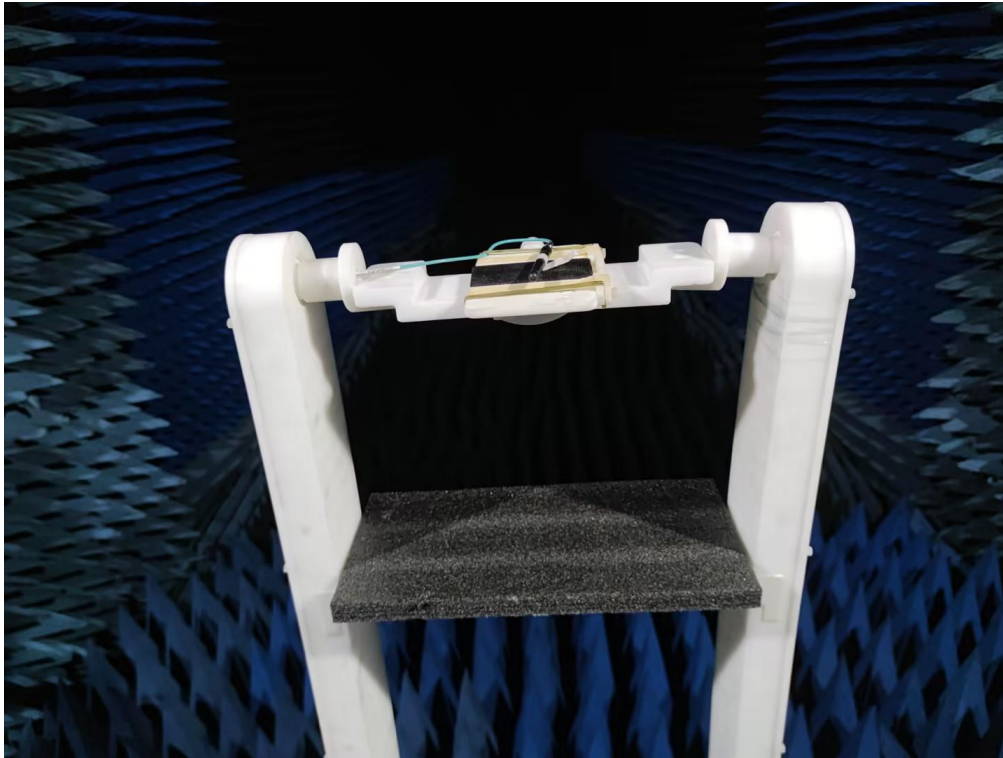


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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

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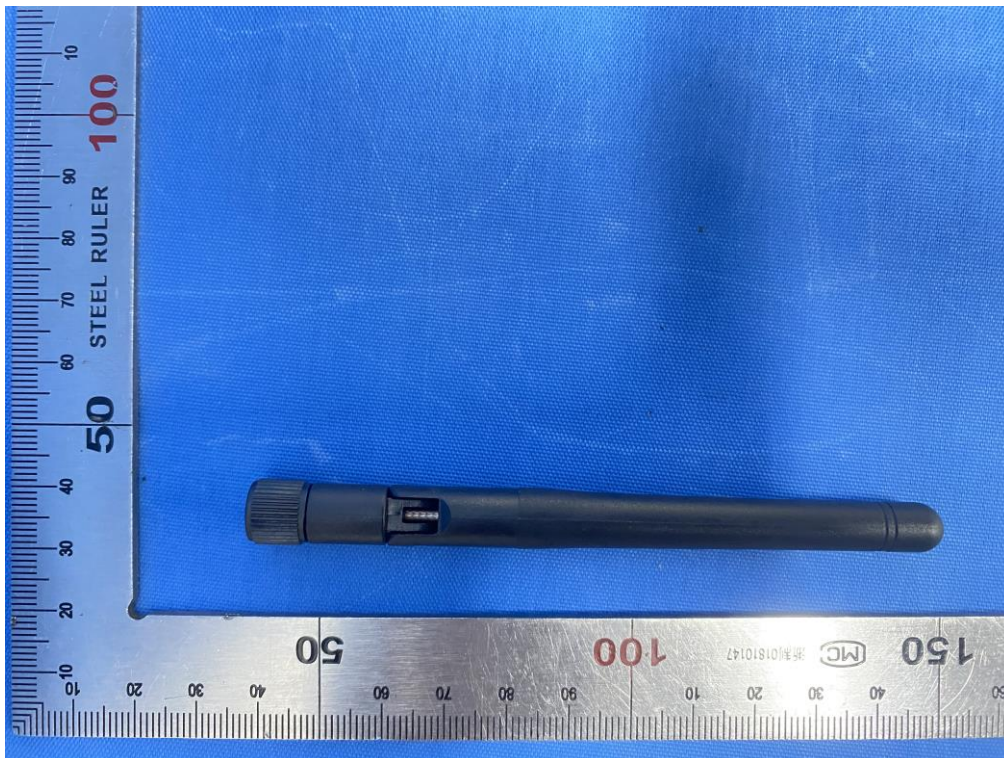
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APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT



BOTTOM VIEW OF EUT



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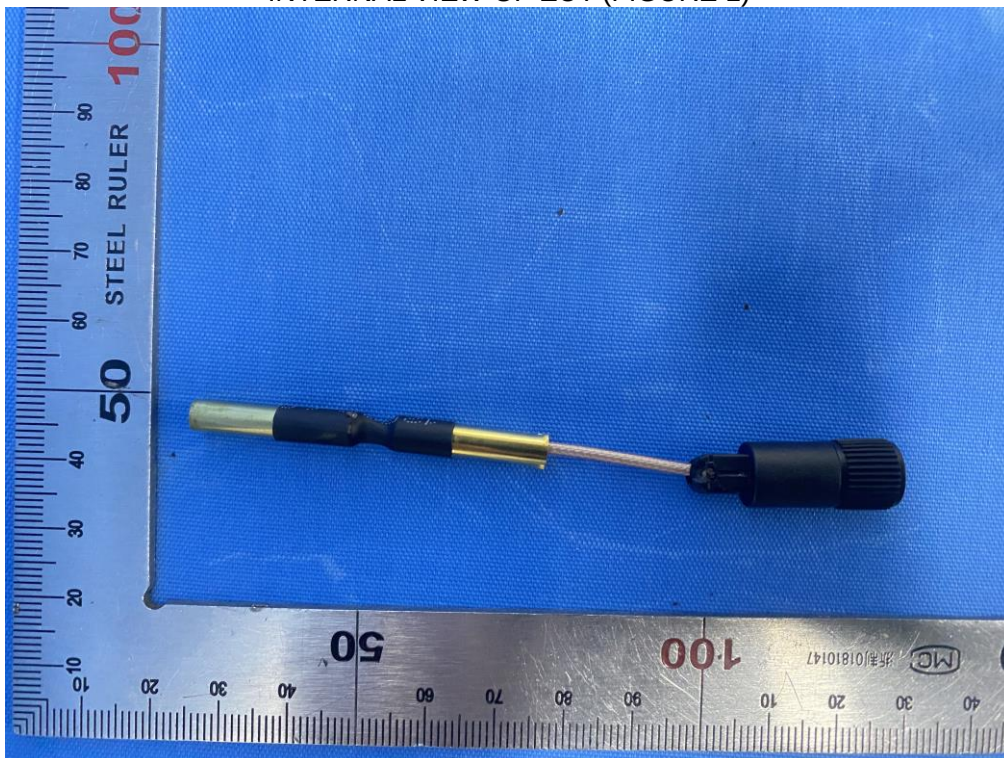
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OPEN VIEW OF EUT



INTERNAL VIEW OF EUT (FIGURE 1)



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Conditions of Issuance of Test Reports

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.

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