Antenna Test Report

Report No.: AGC09355230302PA01

PRODUCT DESIGNATION	:	Smart Nutritional Scale
BRAND NAME	:	N/A
MODEL NAME	:	iN4901D, iN4900D
APPLICANT	:	Zhongshan Camry Electronic Co., LTD.
DATE OF ISSUE	:	Mar. 13, 2023
REPORT VERSION	:	V1.0

Attestation of ***G***lobal ***C***ompliance (Shenzhen) Co., Ltd

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Attestation of Global Compliance(Shenzhen)Co., Ltd
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Mar. 13, 2023	Valid	Initial release

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1. PRODUCT INFORMATON

General information	
Applicant	Zhongshan Camry Electronic Co., LTD.
Address	Baishawan Industrial Park, Qiwan Road(N), East Dis, Zhongshan, Guangdong, China
Manufacturer	Zhongshan Camry Electronic Co., LTD.
Address	Baishawan Industrial Park, Qiwan Road(N), East Dis, Zhongshan, Guangdong, China
Factory	Zhongshan Camry Electronic Co., LTD.
Address	Baishawan Industrial Park, Qiwan Road(N), East Dis, Zhongshan, Guangdong, China
Product Designation	Smart Nutritional Scale
Brand Name	N/A
Test Model	iN4901D
Series Model	iN4900D
Declaration of Difference	All the same except for the model name.
Date of receipt of test item	Mar. 08, 2023
Date of test	Mar. 08, 2023 to Mar. 13, 2023
Report Template	AGCRT-ER-PA/V1.0
Technical information	
Frequency Range	2400MHz-2500MHz
Test Frequencies	2400MHz, 2410MHz, 2420MHz, 2430MHz, 2440MHz, 2450MHz, 2460MHz, 2470MHz, 2480MHz, 2490MHz, 2500MHz
Antenna Type	PCB Antenna
Dimensions	10mm*5mm
Impedance	50 Ω
Maximum test values	Gain: 1.083dBi; Efficiency: 6.875%; VSWR: 1.078:1

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	Thea Huang Thea Huang (Project Engineer)	Mar. 13, 2023
Reviewed By	Calvin Liu Calvin Liu (Reviewer)	Mar. 13, 2023
Approved By	Max Zhang Max Zhang (Authorized Officer)	Mar. 13, 2023

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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. 25, 2022	Nov. 28, 2023
Network Analyzer	R&S	101443	Oct. 15, 2022	Oct. 14, 2023
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, Uc = ±1.5dB
- Uncertainty of Gain, Uc = ±0.8dB

5. TEST SUMMARY LIST

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

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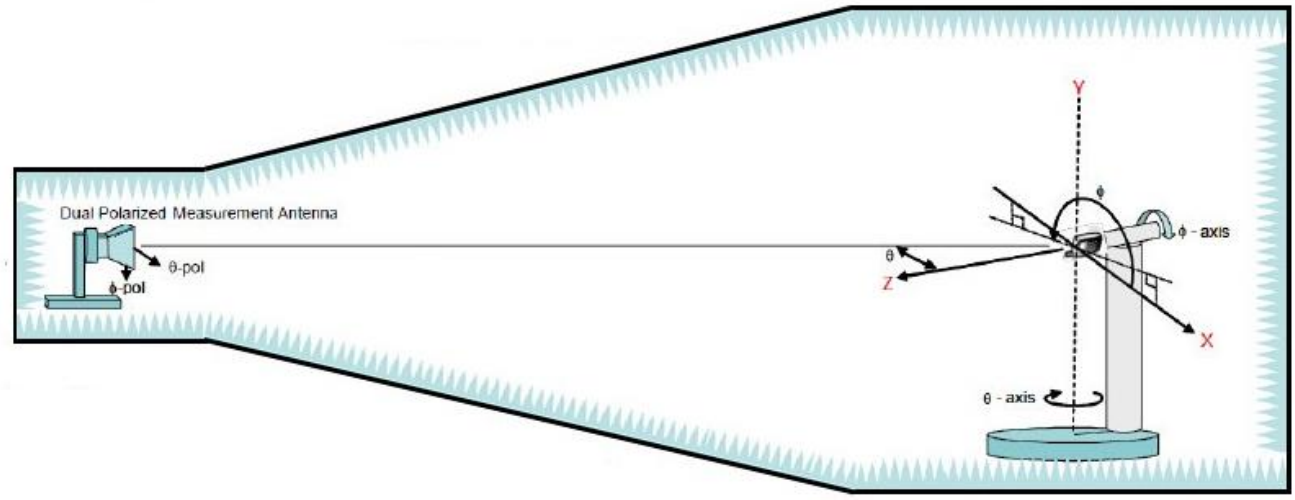
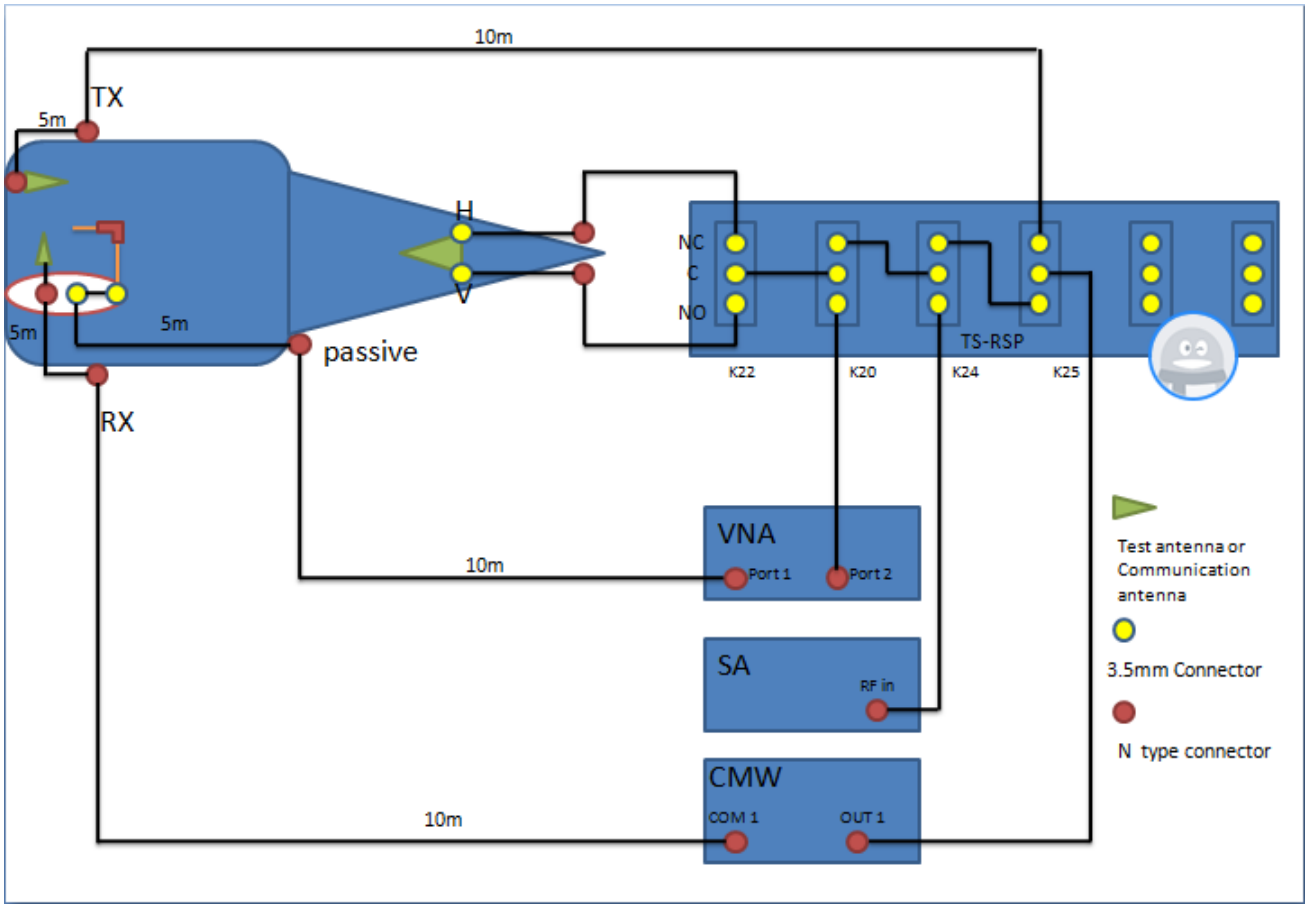
6. TEST SETUP





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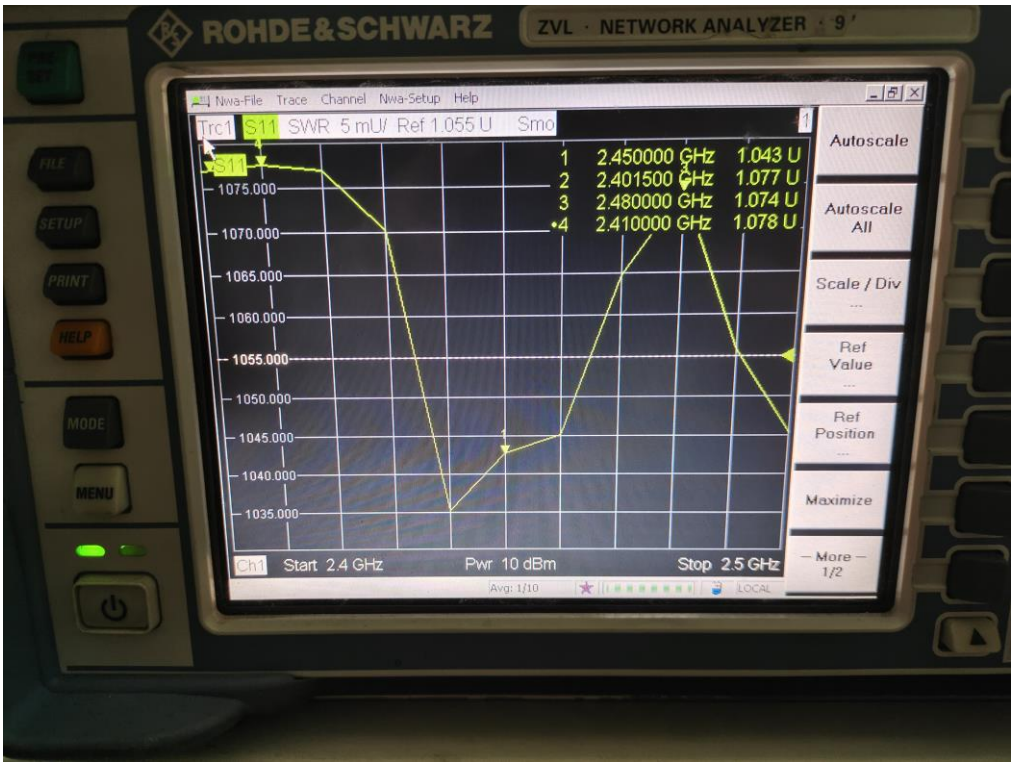
7. TEST RESULTS

7.1. VSWR

Frequency(MHz)	VSWR
2402	1.077:1
2410	1.078:1
2450	1.043:1
2480	1.074:1



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7.2. GAIN AND EFFICIENCY

Frequency(MHz)	Efficiency(dB)	Efficiency(%)	Gain(dBi)
2400	-12.331	5.845	-0.218
2410	-12.446	5.692	-0.142
2420	-12.668	5.409	-0.249
2430	-12.510	5.610	-0.177
2440	-12.329	5.849	-0.018
2450	-12.395	5.761	-0.091
2460	-12.313	5.870	0.142
2470	-12.207	6.015	0.282
2480	-11.908	6.443	0.692
2490	-11.709	6.745	0.959
2500	-11.627	6.875	1.083

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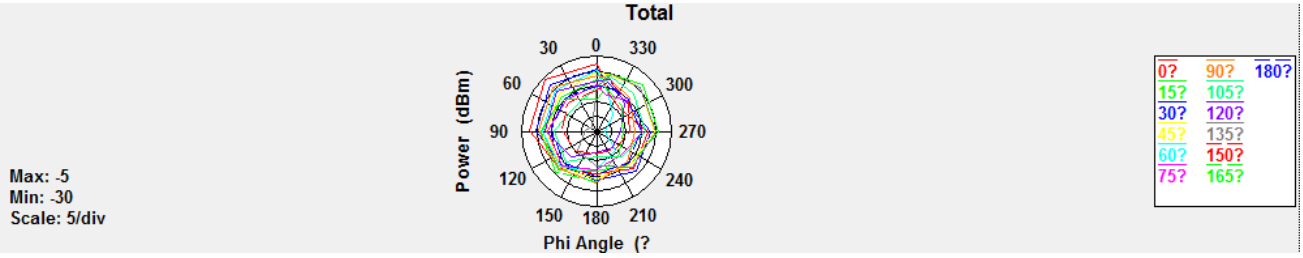
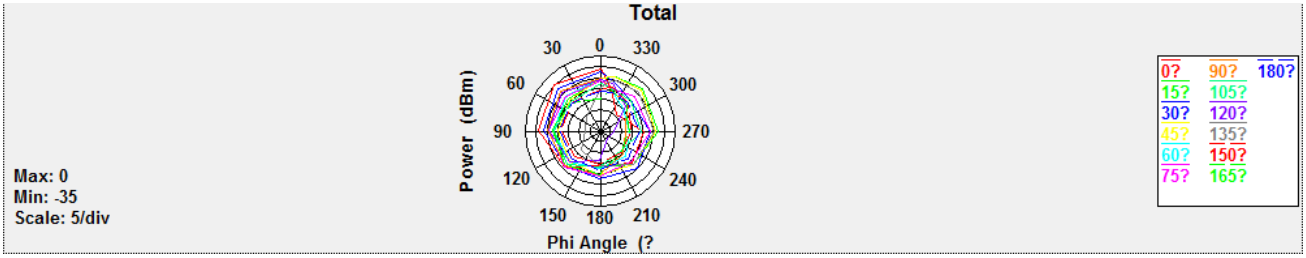
7.3. RADIATION PATTERN

2D POLAR RADIATION PATTERN

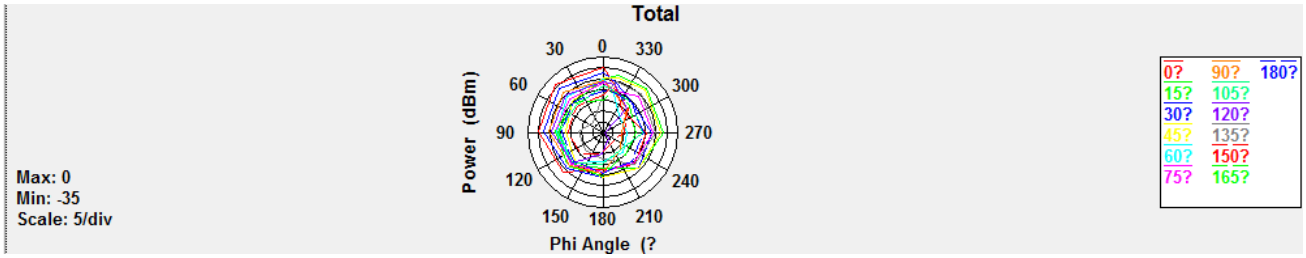
FREQUENCY=2400MHZ



FREQUENCY=2450MHZ



FREQUENCY=2500MHZ



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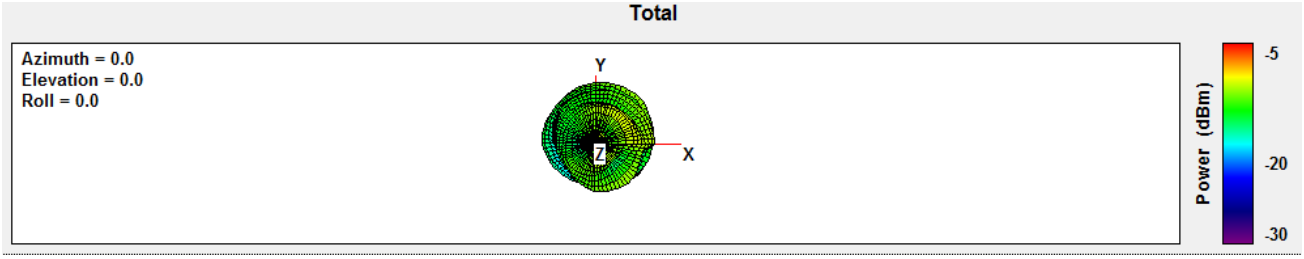
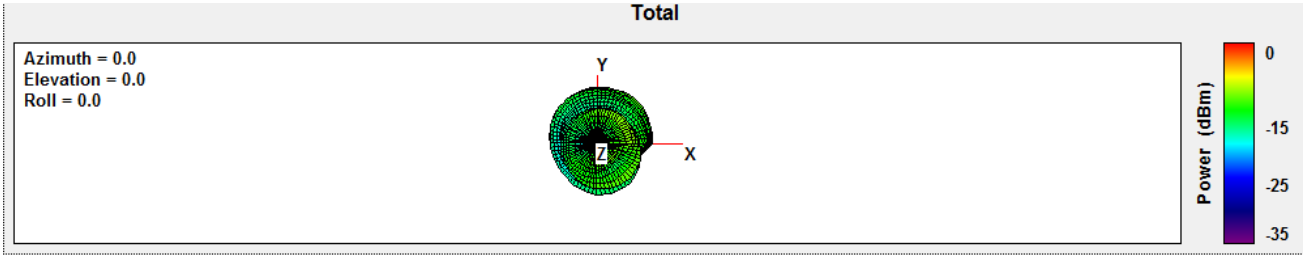
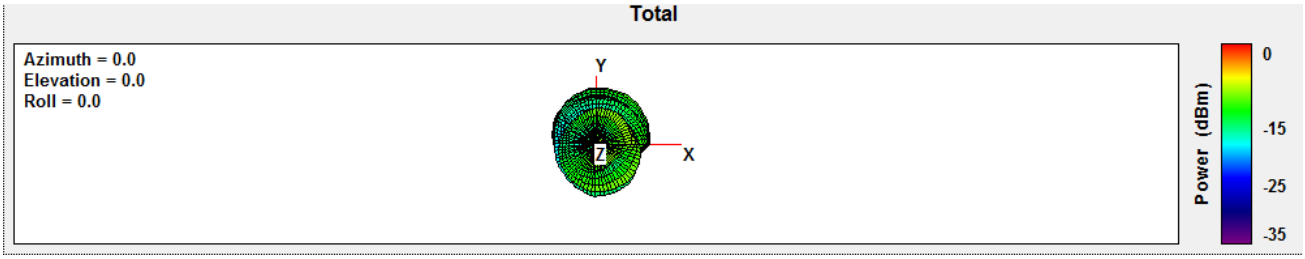
3D RADIATION PATTERN
FREQUENCY=2400MHZ



FREQUENCY=2450MHZ



FREQUENCY=2500MHZ



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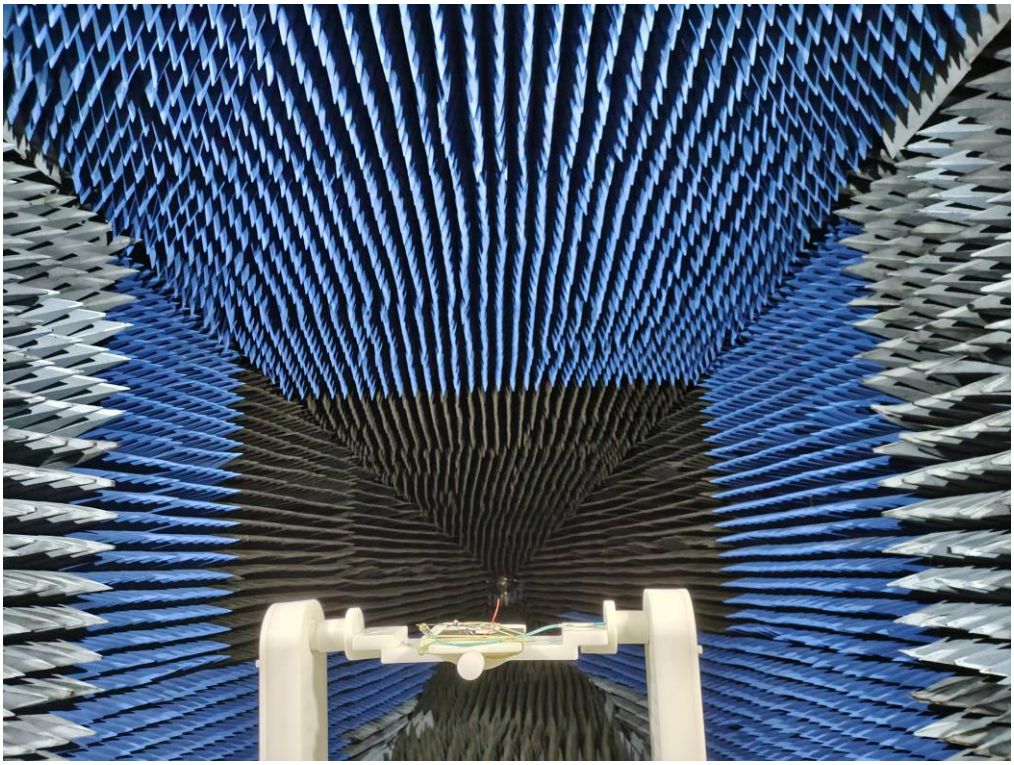

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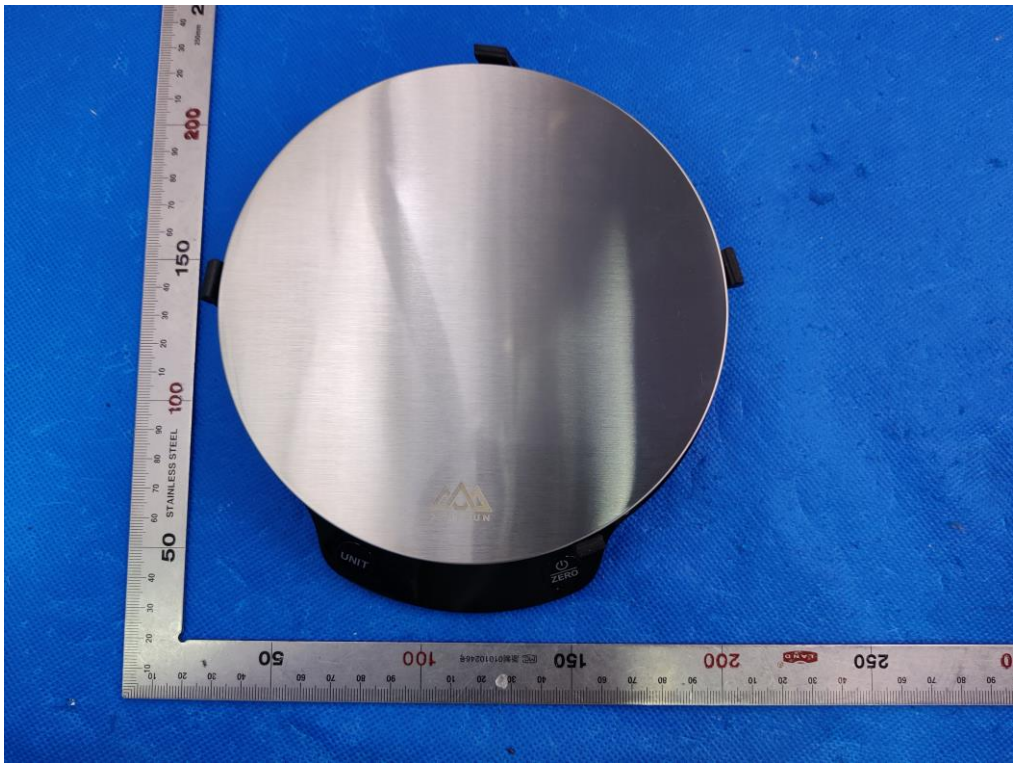
APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT



BOTTOM VIEW OF EUT

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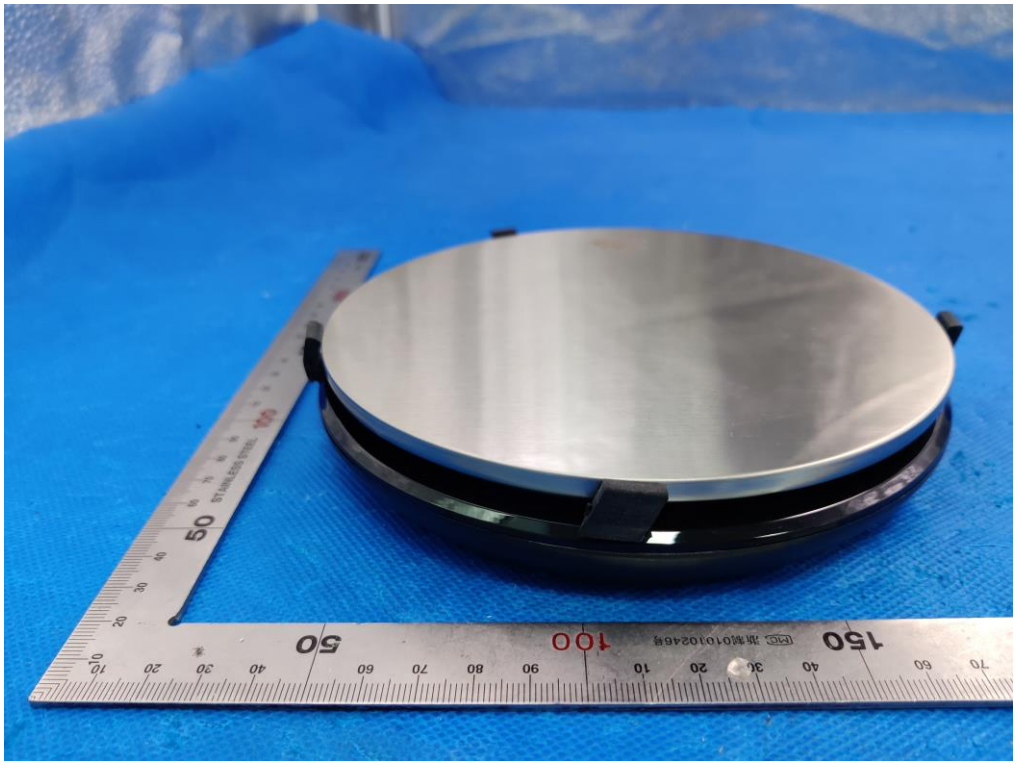
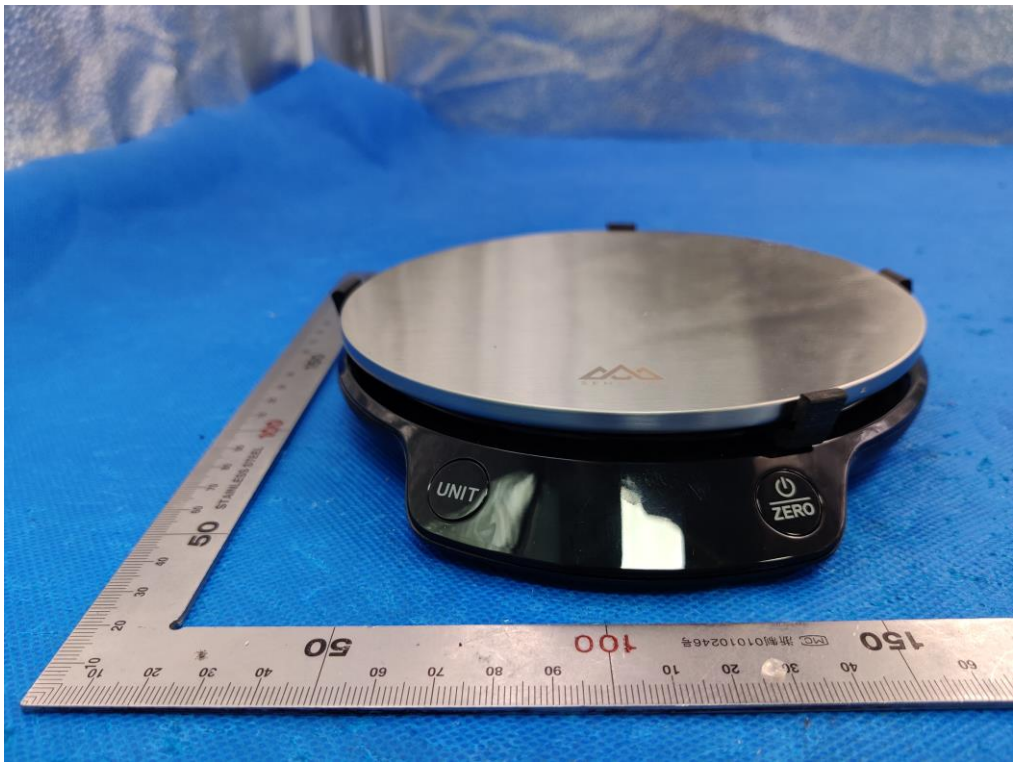
FRONT VIEW OF EUT



BACK VIEW OF EUT



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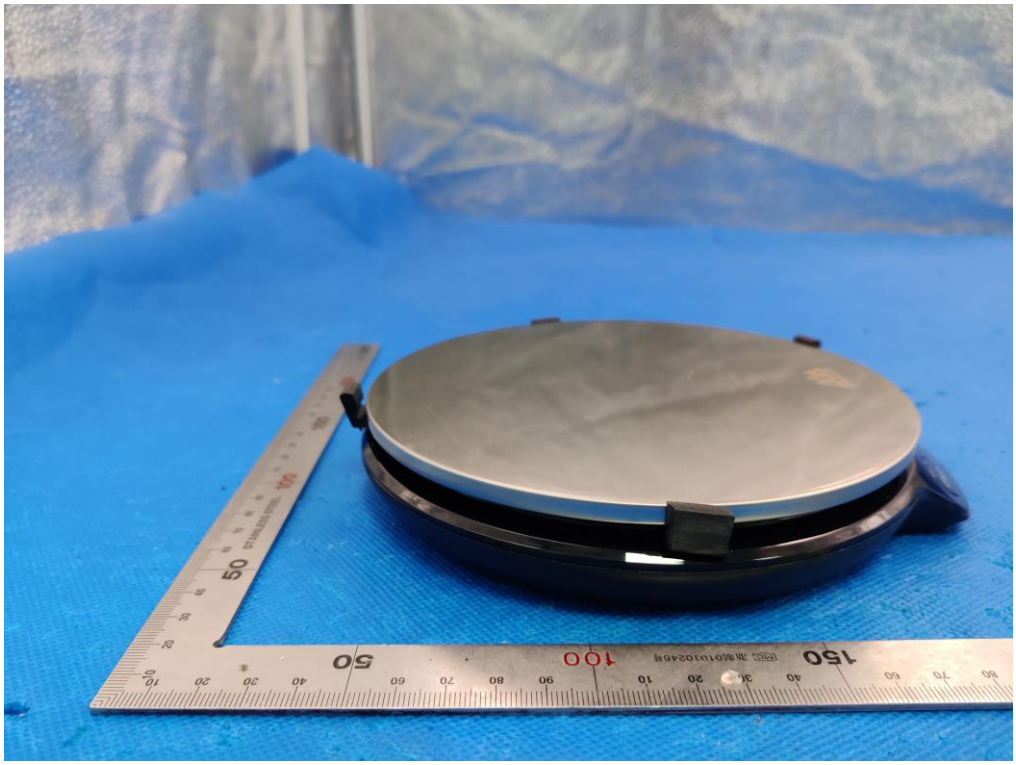
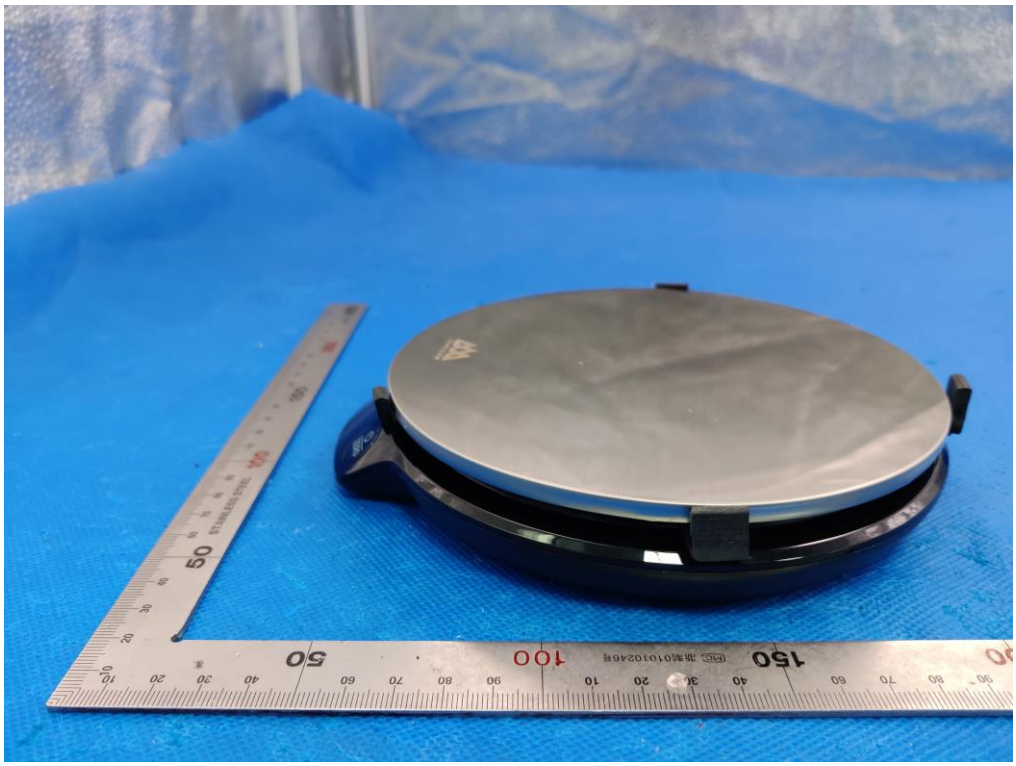
LEFT VIEW OF EUT



RIGHT VIEW OF EUT



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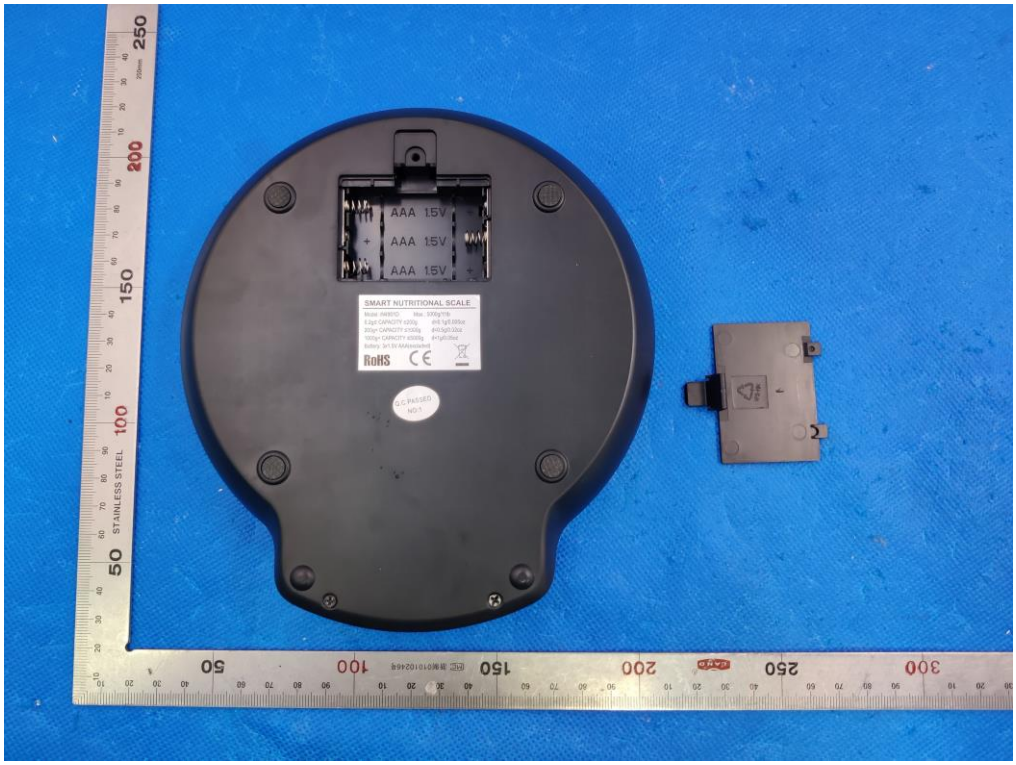
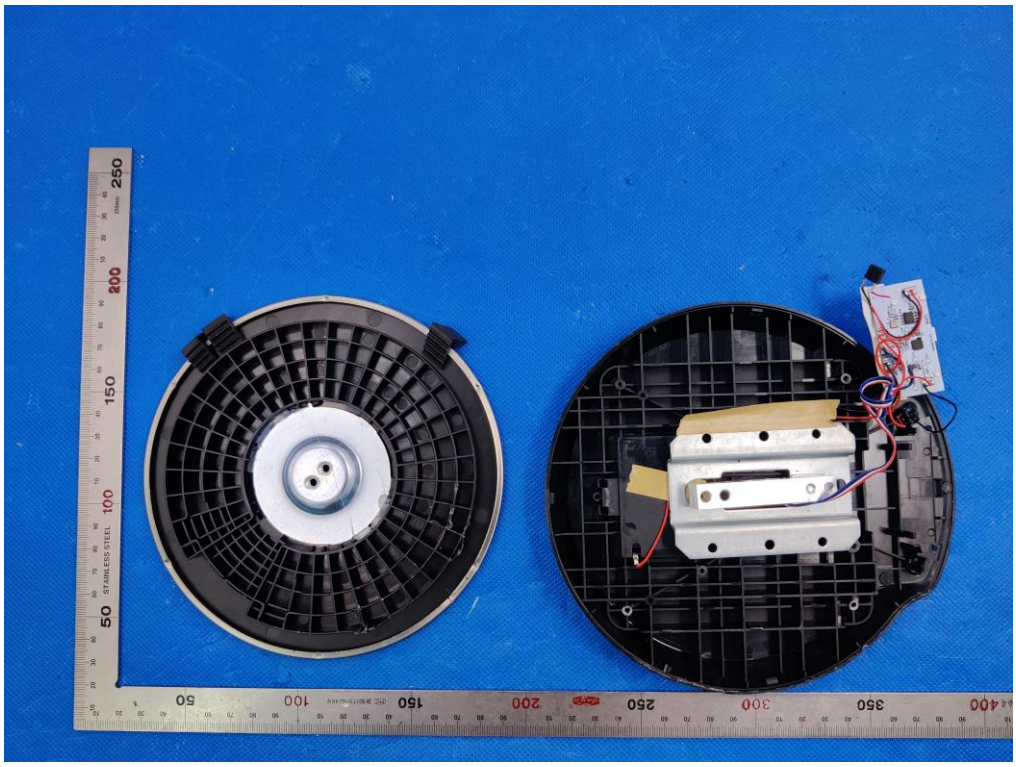
OPEN VIEW OF EUT (FIGURE 1)



OPEN VIEW OF EUT (FIGURE 2)



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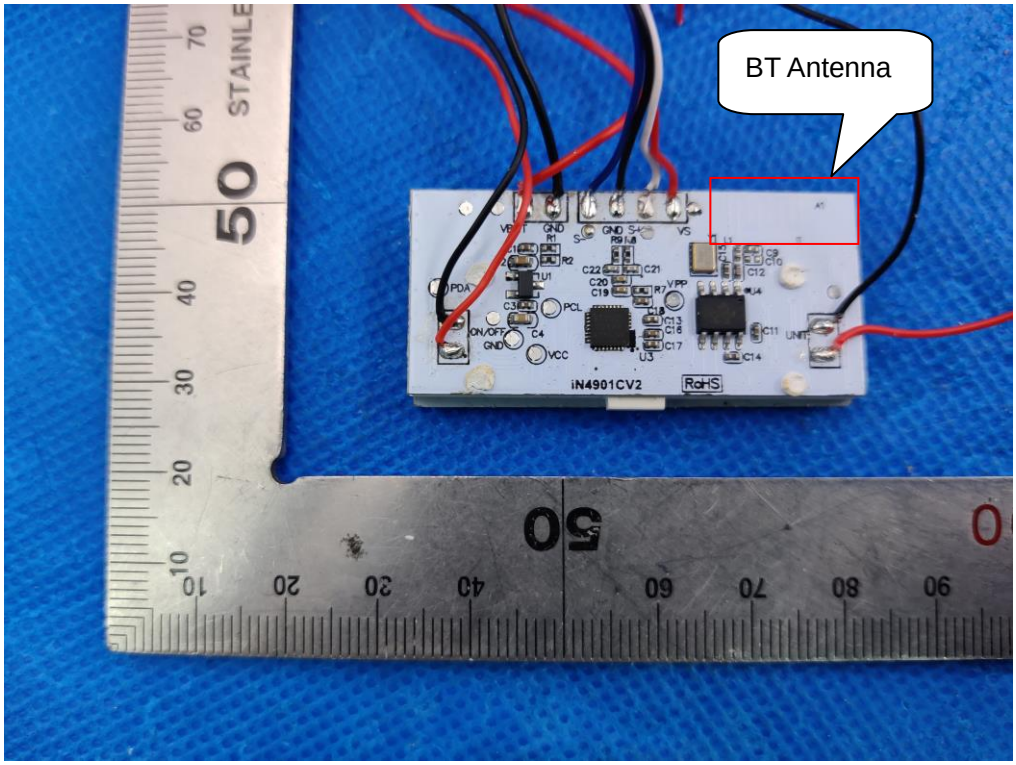
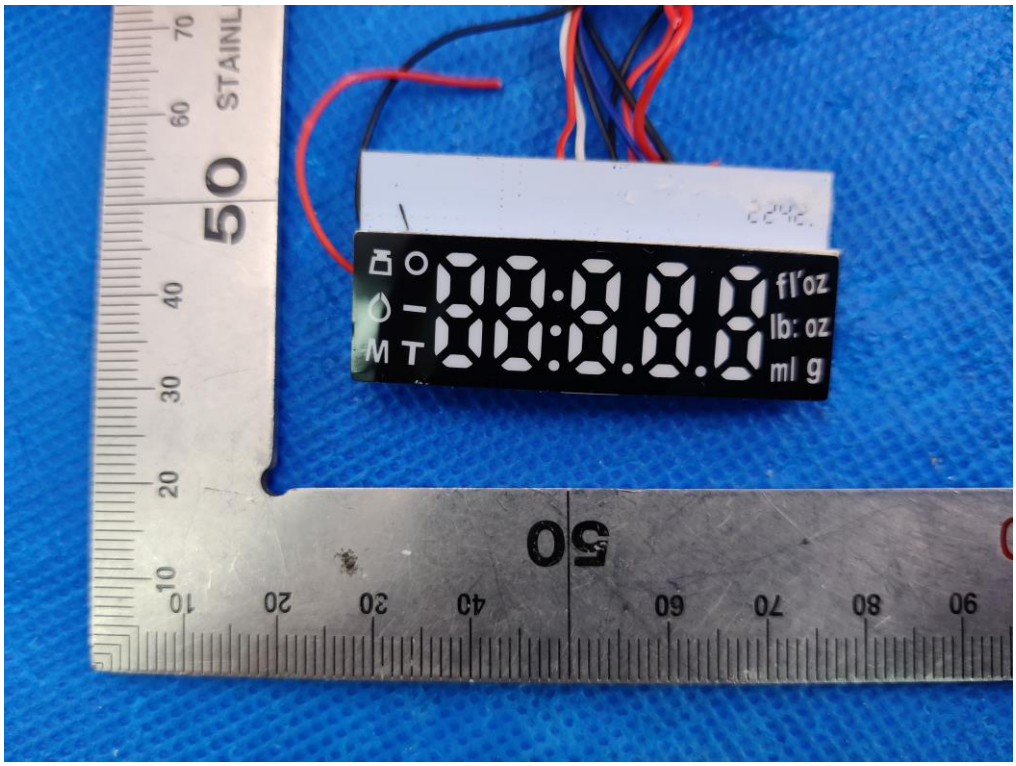
INTERNAL VIEW OF EUT (FIGURE 1)



INTERNAL VIEW OF EUT (FIGURE 2)



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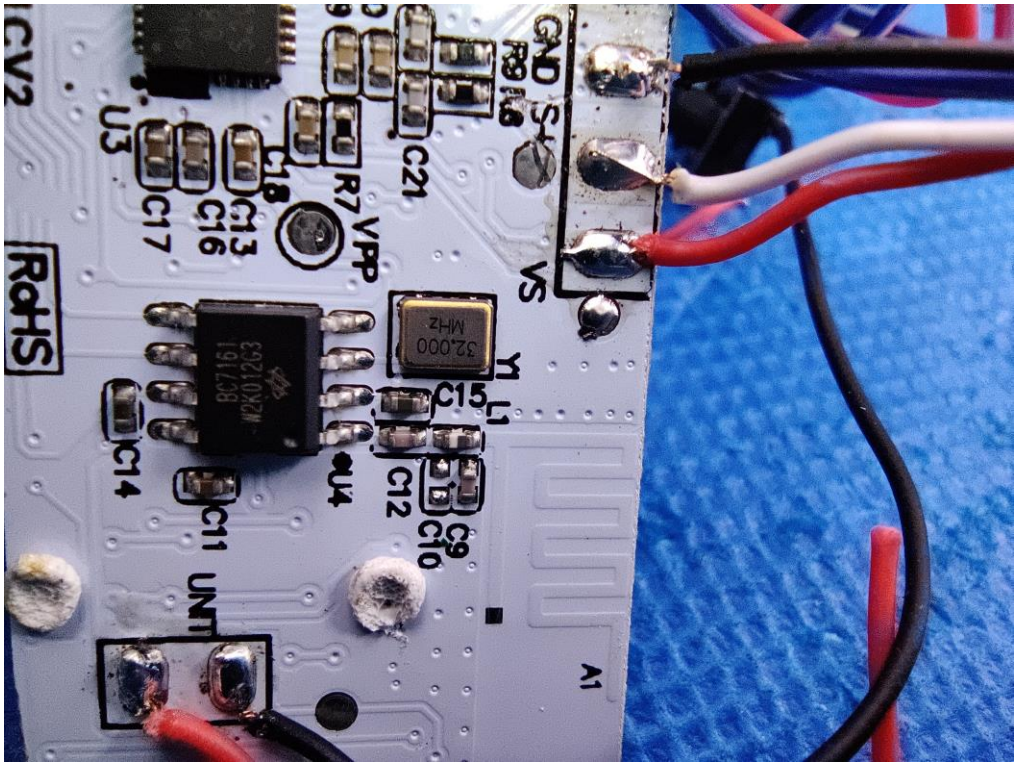
INTERNAL VIEW OF EUT (FIGURE 3)



----END OF REPORT----

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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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