



REPORT No.: SZ23090363E01

TEST REPORT

APPLICANT : SHENZHEN WYC TECHNOLOGY CO., LTD.

PRODUCT NAME : 2.4 GHz PCB Antenna

MODEL NAME : WAT-2400Y

TRADE NAME : MOOYEE

BRAND NAME : MOOYEE

STANDARD(S) : IEEE Std 149-2021

RECEIPT DATE : 2023-09-25

TEST DATE : 2023-09-26

ISSUE DATE : 2023-09-27

Edited by:

Fang Jinshan(Rapporteur)

Approved by:

Chi Shide(Supervisor)

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MORLAB

Shenzhen Morlab Communications Technology Co., Ltd., FL.1-3, Building A,
FeiYang Science Park, No.8 LongChang Road,Block67, BaoAn District,
ShenZhen , GuangDong Province, P. R. China

Tel: 86-755-36698555

Http://www.morlab.cn

Fax: 86-755-36698525

E-mail: service@morlab.cn





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Change History		
Version	Date	Reason for change
1.0	2023-09-27	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	SHENZHEN WYC TECHNOLOGY CO., LTD.
Applicant Address:	518, A2 Bld, Peihong Mansion, Kehui 1st Road, Hi-tech Park, Nanshan District, Shenzhen, China.
Manufacturer:	SHENZHEN WYC TECHNOLOGY CO., LTD.
Manufacturer Address:	518, A2 Bld, Peihong Mansion, Kehui 1st Road, Hi-tech Park, Nanshan District, Shenzhen, China.

1.2. Equipment Under Test (EUT) Description

Wireless Type	N/A
Frequency	2400MHz-2500MHz
Product HW Version	N/A
Product SW Version	N/A
IMEI	N/A
Sample No.	1#

2. Test Results

2.1. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1	IEEE Std 149-2021	IEEE Recommended Practice for Antenna Measurements

2.2. Test Conditions

Test Environment Conditions:

Relative Humidity:	25 ... 75 %
Temperature:	+10 °C to +30 °C

2.3. Measurement Uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO. When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% Confidence intervals.

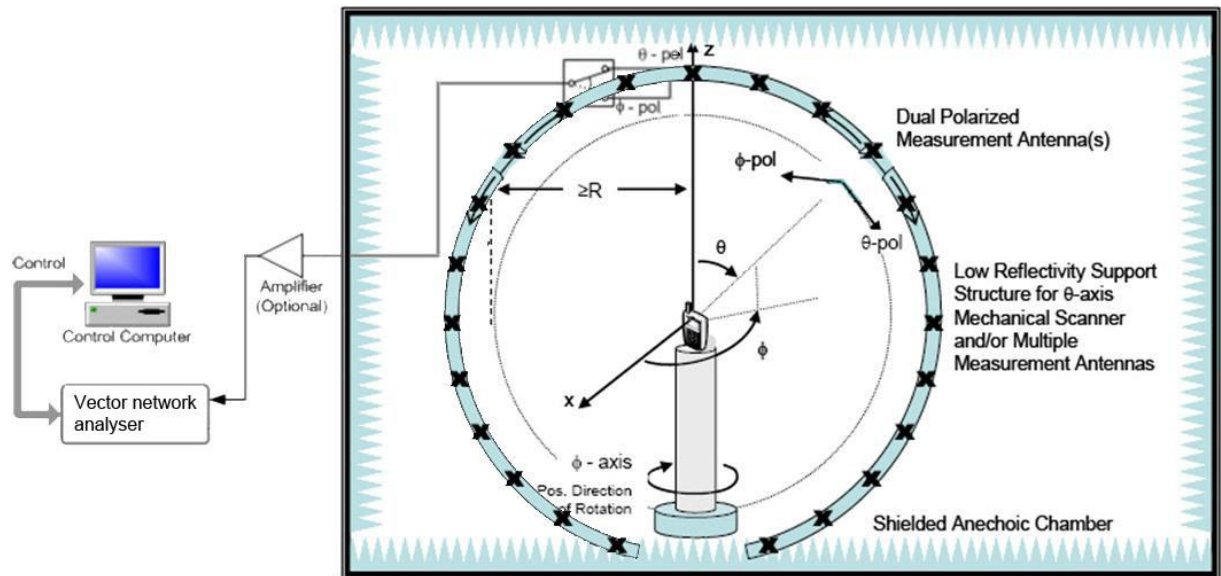


2.4. Test Results lists

2.4.1. Gain

Frequency(MHz)	Gain(dBi)
2400	1.86
2410	1.79
2420	1.81
2430	1.69
2440	1.70
2450	1.59
2460	1.45
2470	1.22
2480	0.94
2490	0.92
2500	1.12

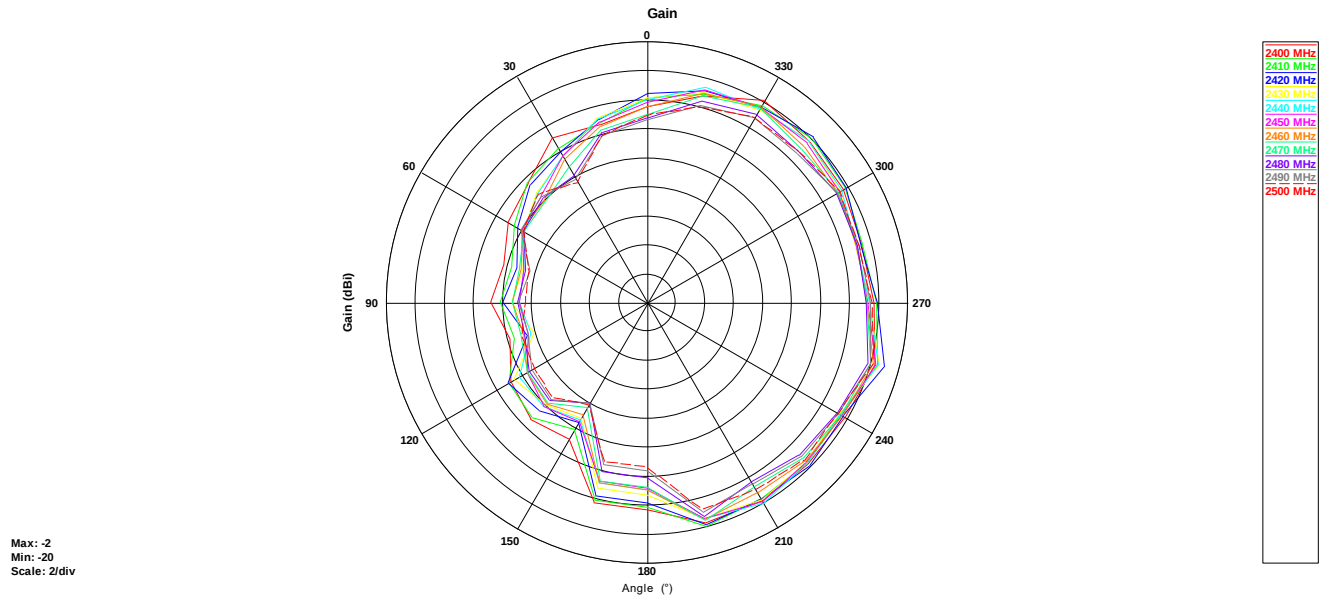
Annex A Test Setup Photos



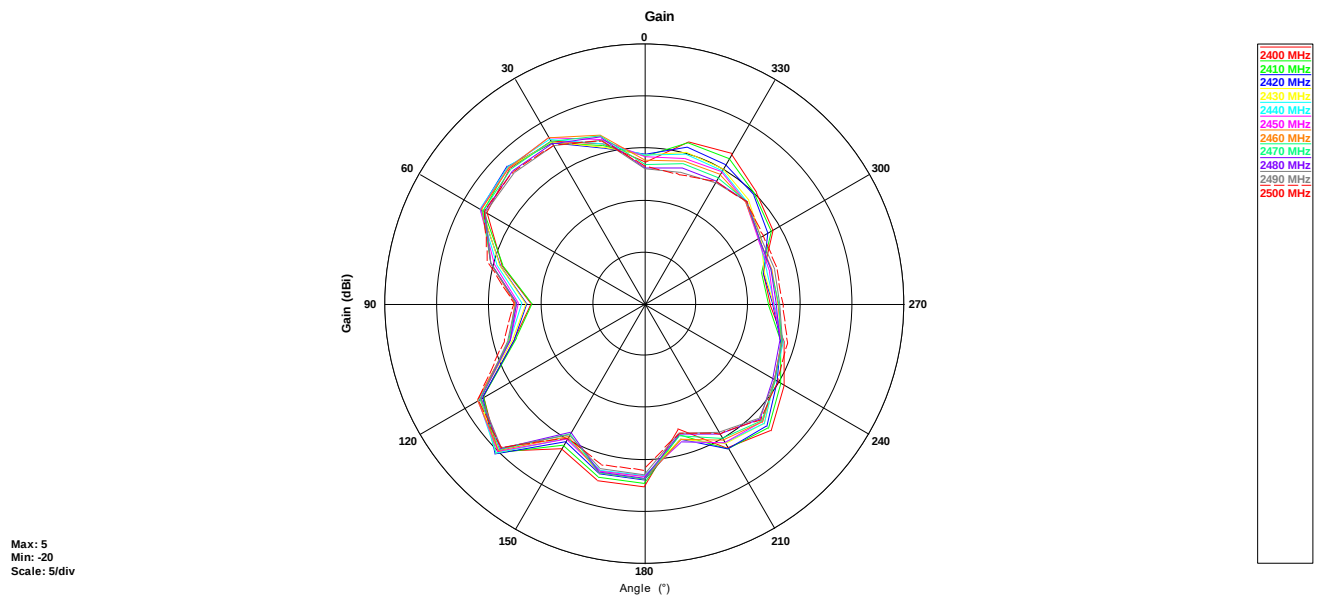


Annex B Figures

1. 2D Radiation Pattern



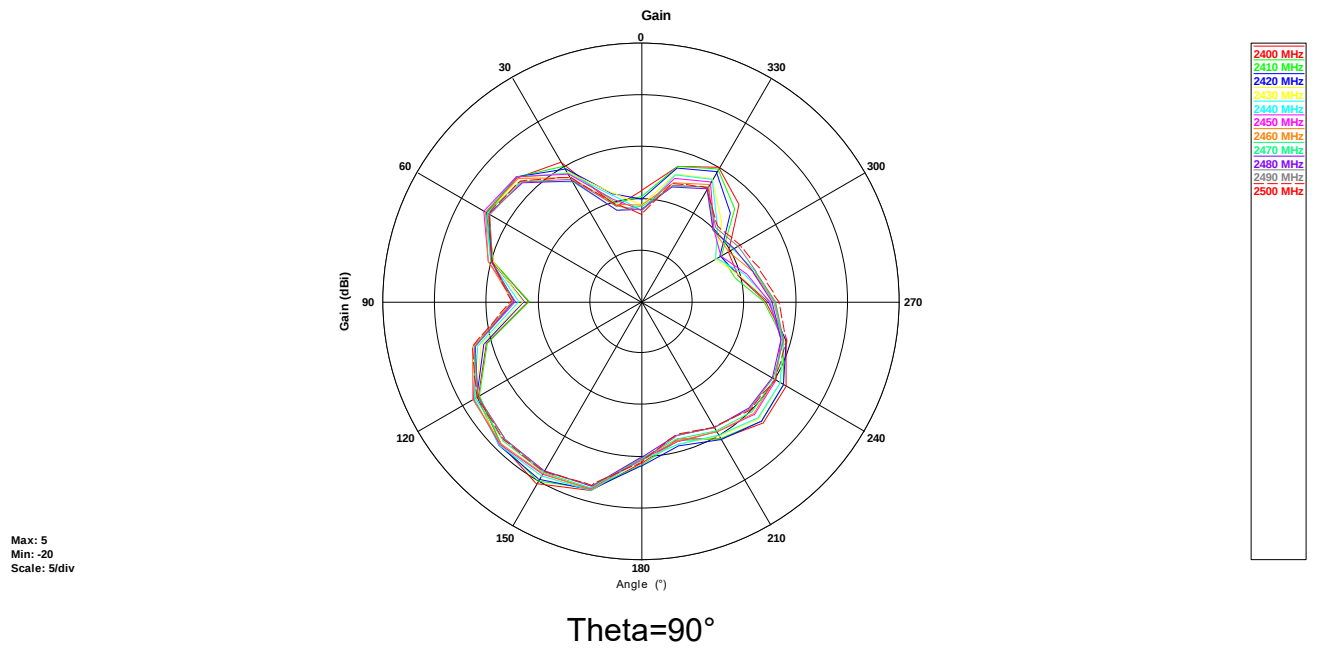
Phi=0°



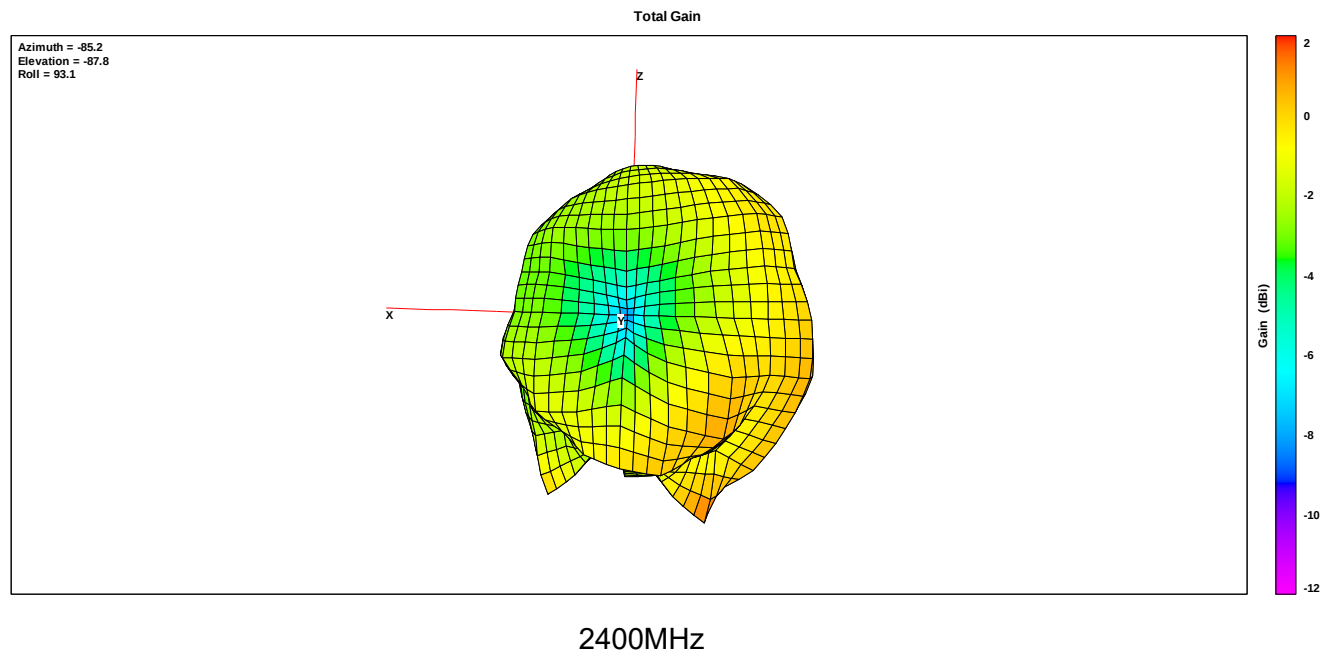
Phi=90°

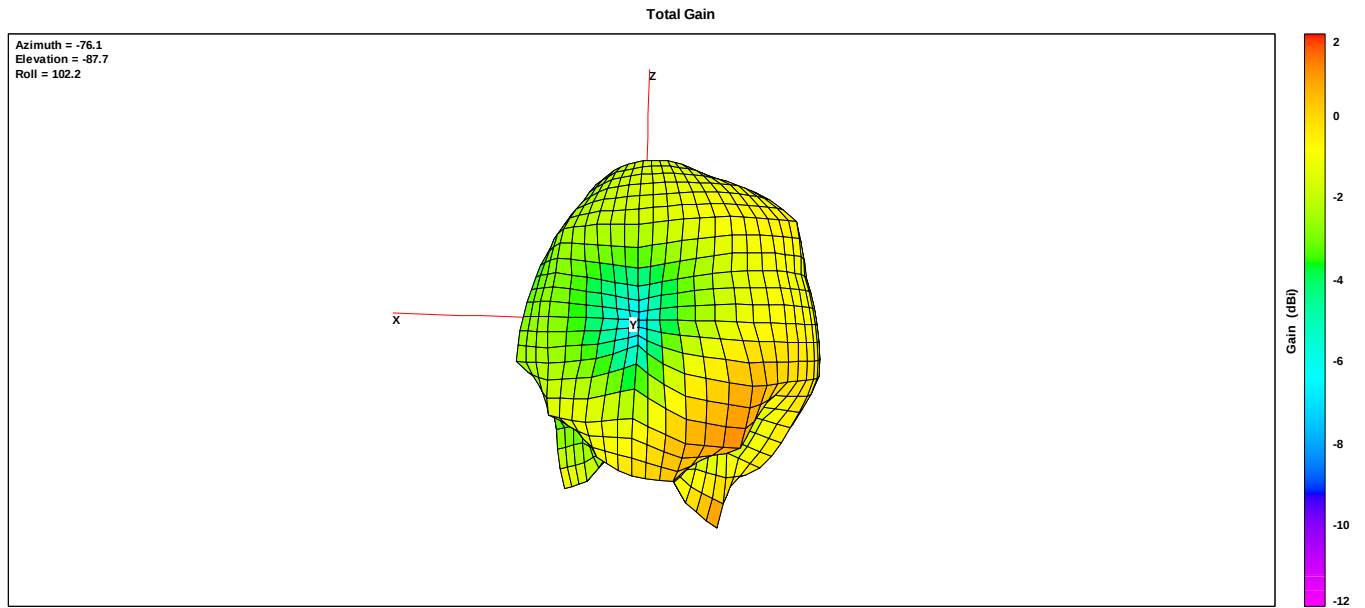


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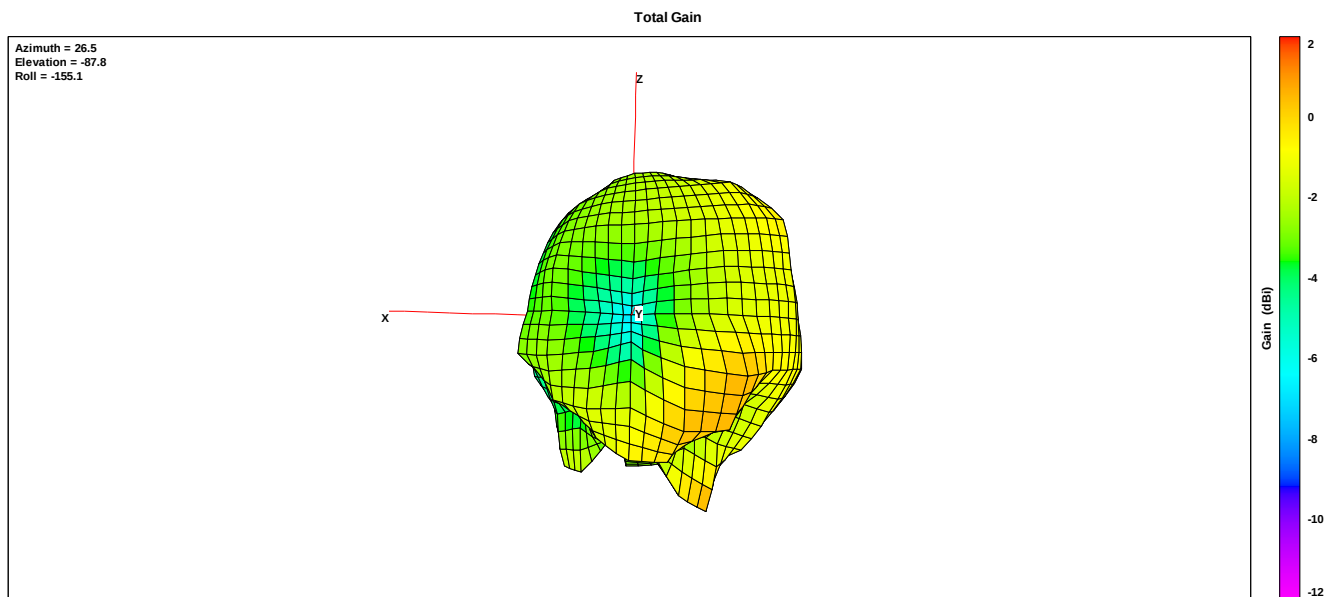


2. 3D Radiation Pattern





2450MHz



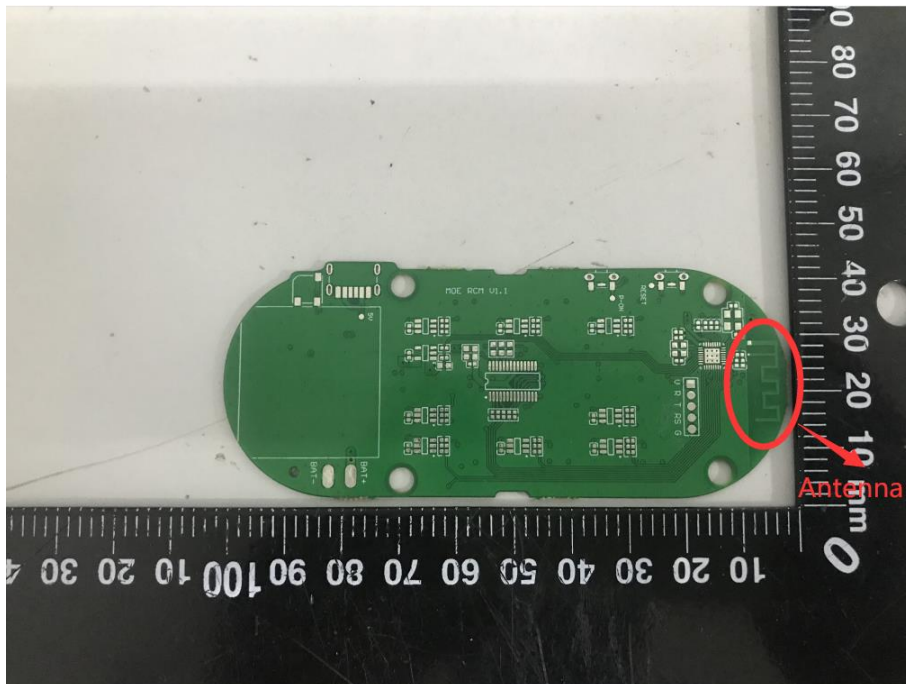
2500MHz

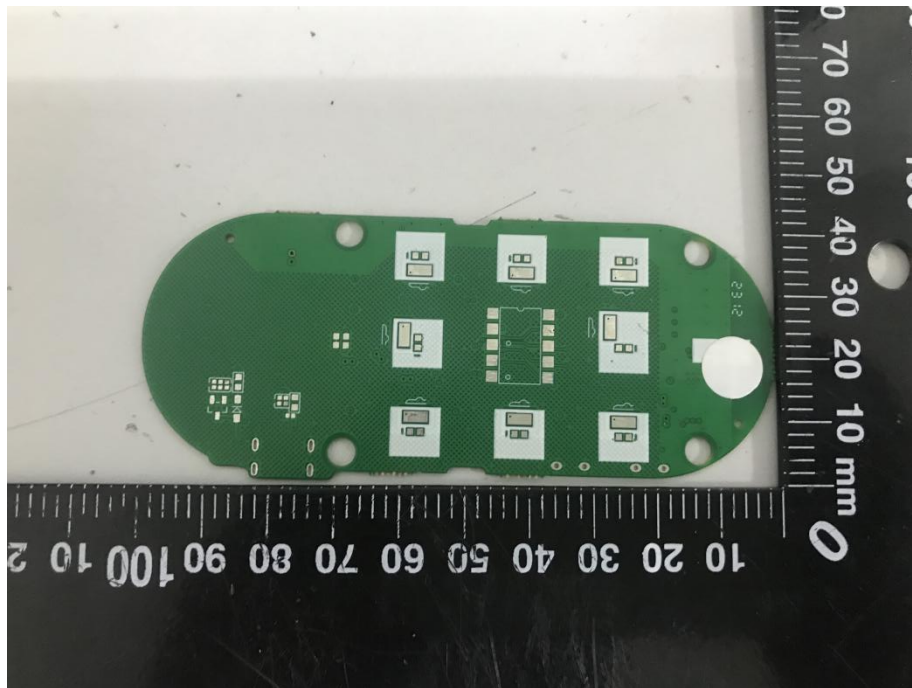
Annex C EUT Photos

1. Test environment



2. EUT







Annex D General Information

1.1 Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

1.2 Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

1.3 Test Equipments Utilized

No.	Equipment Name	Serial No.	Type	Manufacturer	Cal.Date	Cal.Due Date
1	Network Analyzer	MY46110140	E5071C	Agilent	2023.06.21	2024.06.20
2	OTA Chamber	TJ2235-Q1793	AMS-8923-150	ETS	2022.11.30	2025.11.29
3	Antenna Measurement System	1685	EMQuest EMQ-100 V 1.13 Build 21267	ETS	N/A	N/A

————— END OF REPORT —————