



TEST REPORT

APPLICANT : Shenzhen chenxinda electronics co. LTD
PRODUCT NAME : 433.92MHz Antenna
MODEL NAME : 8301-0681
TRADE NAME : N/A
BRAND NAME : N/A
STANDARD(S) : IEEE Std 149-2021
RECEIPT DATE : 2022-12-22
TEST DATE : 2022-12-23
ISSUE DATE : 2022-12-26

Edited by: Fang Jinshan
Fang Jinshan(Rapporteur)

Approved by: Chi Shide
Chi Shide(Supervisor)

NOTE: This document is issued by Shenzhen Morlab Communications Technology Co., Ltd.,the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.





DIRECTORY

- 1. Technical Information3
- 1.1. Applicant and Manufacturer Information3
- 1.2. Equipment Under Test (EUT) Description3
- 2. Test Results 4
- 2.1. Applied Reference Documents4
- 2.2. Test Conditions 4
- 2.3. Measurement Uncertainty 4
- 2.4. Test Results lists5
- Annex A Test Setup Photos6
- Annex B Figures7
- 1. 2D Radiation Pattern 7
- 2. 3D Radiation Pattern 8
- Annex C EUT Photos 10
- Annex D General Information13
- 1.1 Identification of the Responsible Testing Laboratory13
- 1.2 Identification of the Responsible Testing Location13
- 1.3 Test Equipments Utilized 13

Change History		
Version	Date	Reason for change
1.0	2022-12-26	First edition



1. Technical Information

Note: Provide by manufacturer.

1.1. Applicant and Manufacturer Information

Applicant:	Shenzhen chenxinda electronics co. LTD
Applicant Address:	NO.23, changjin road, jinyuan industrial zone, heao community, henggang street office, longgang district, shenzhen city.
Manufacturer:	N/A
Manufacturer Address:	N/A

1.2. Equipment Under Test (EUT) Description

Wireless Type	N/A
Test frequency band	433.92MHz
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.

Item	Measurement Uncertainty(dB)
Gain	±0.5
VSWR	±0.2
Measurement Uncertainty(95% Confidence Interval) K=2	

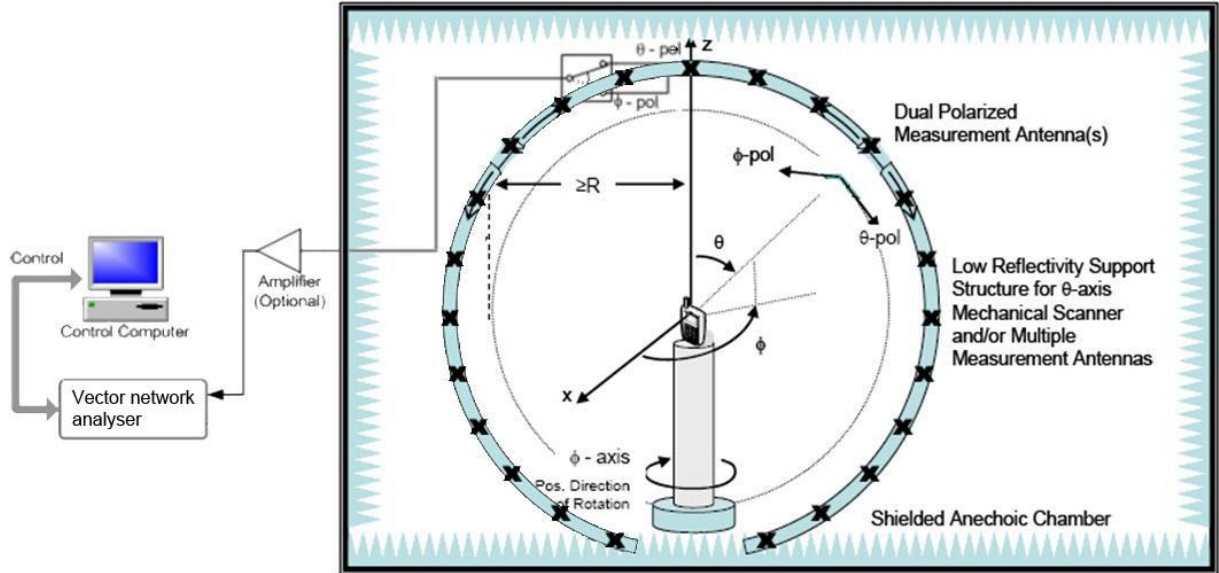


2.4. Test Results lists

2.4.1. Gain(dBi)

Frequency	Gain
433.87MHz	-9.65
433.92MHz	-9.65
433.97MHz	-9.65

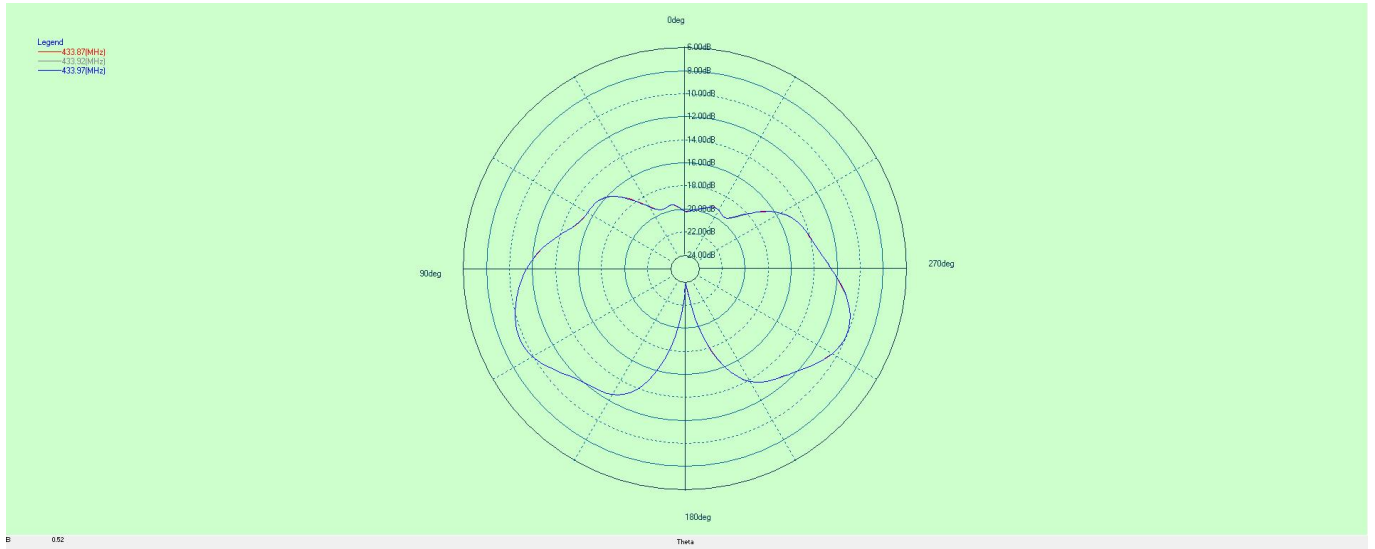
Annex A Test Setup Photos



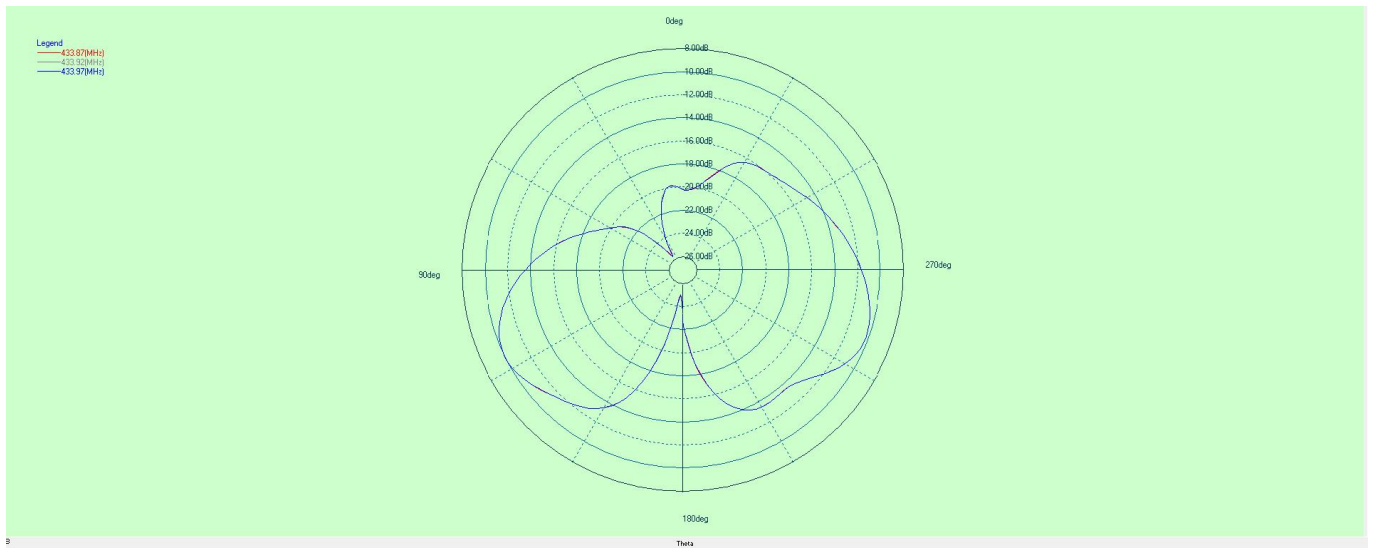
Annex B Figures

1. 2D Radiation Pattern

Phi=0°

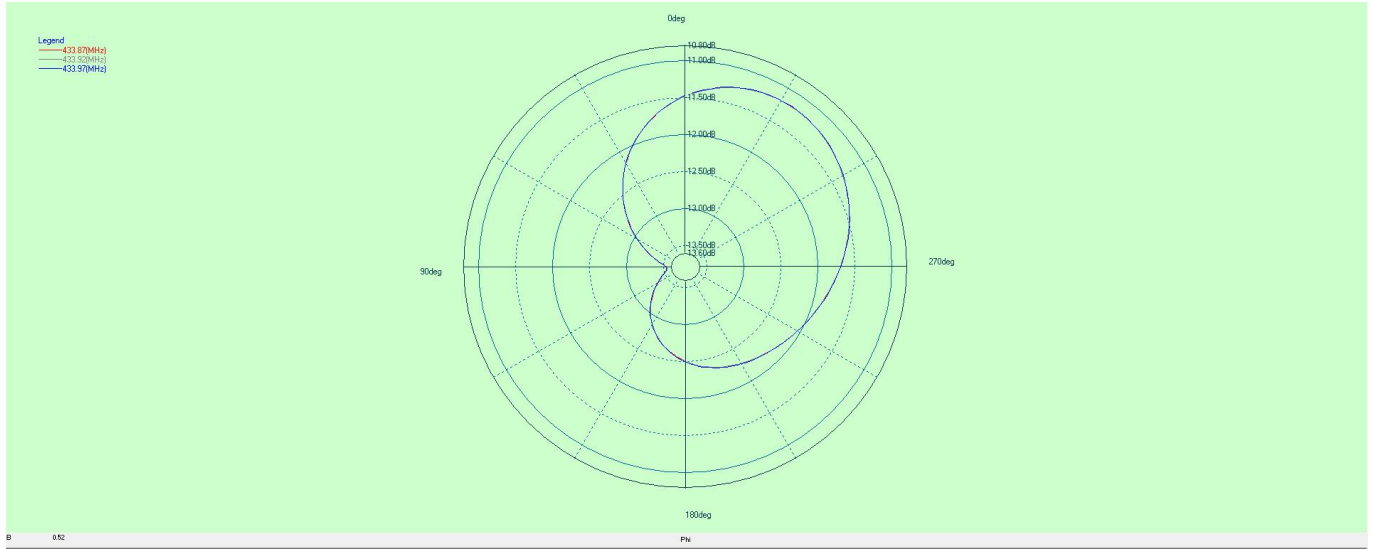


Phi=90°

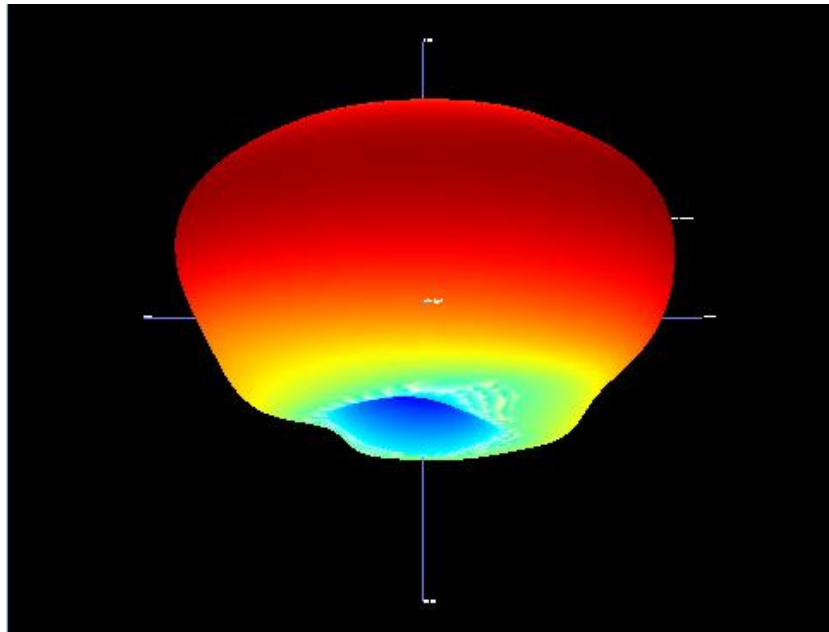




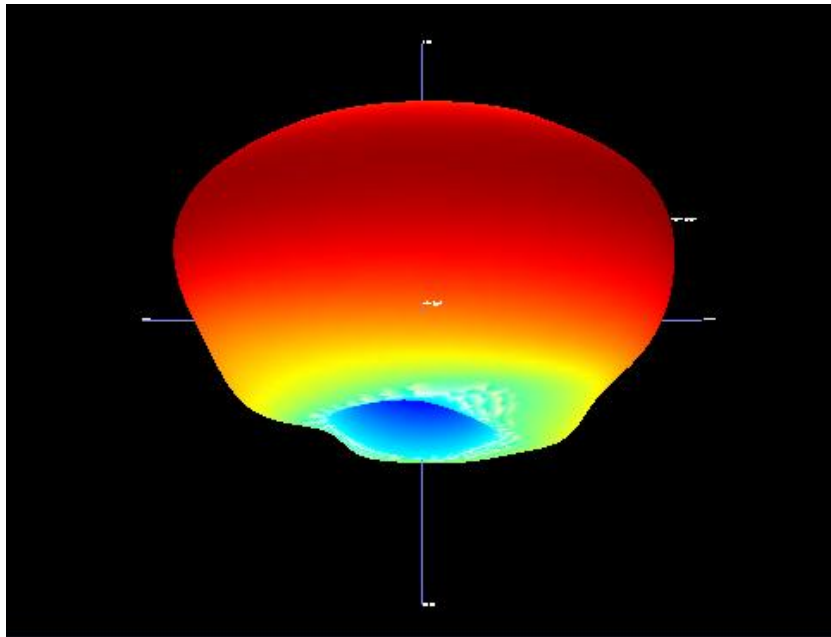
Theta=90°



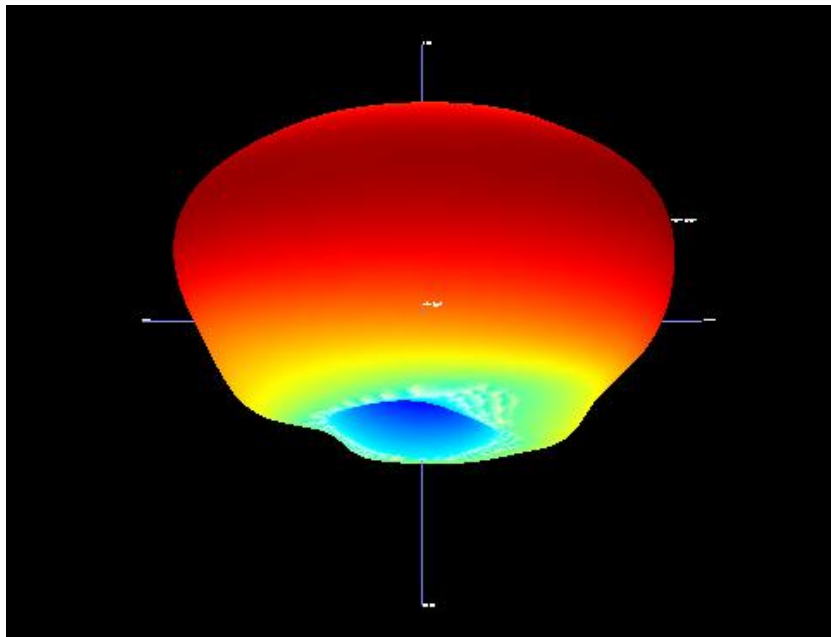
2. 3D Radiation Pattern



433.87MHz



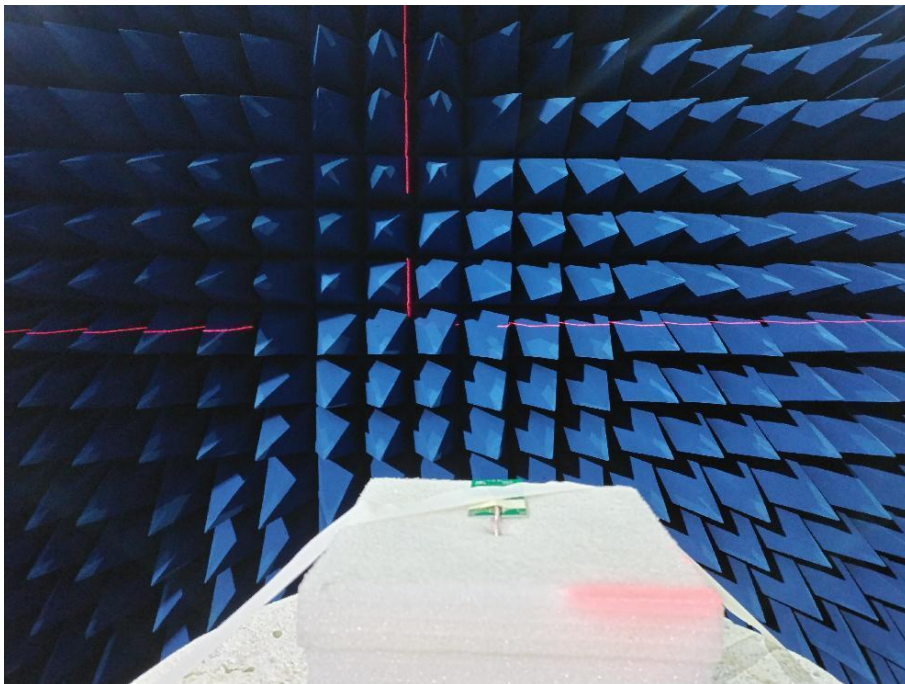
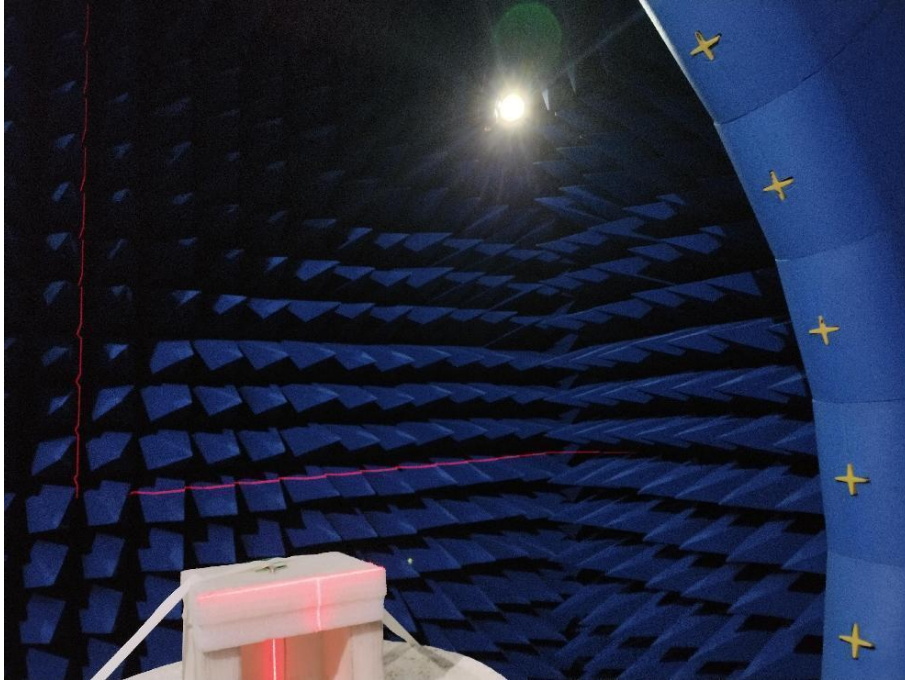
433.92MHz



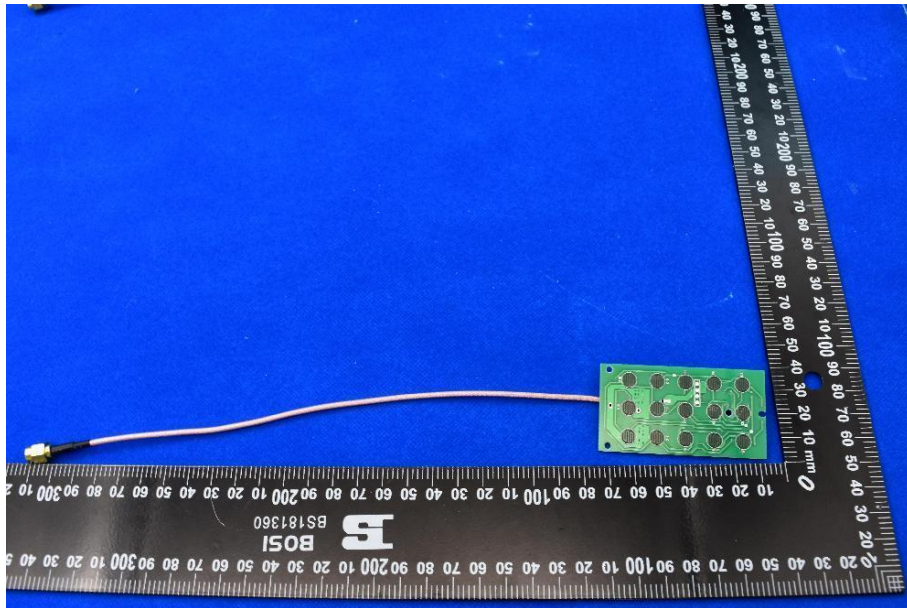
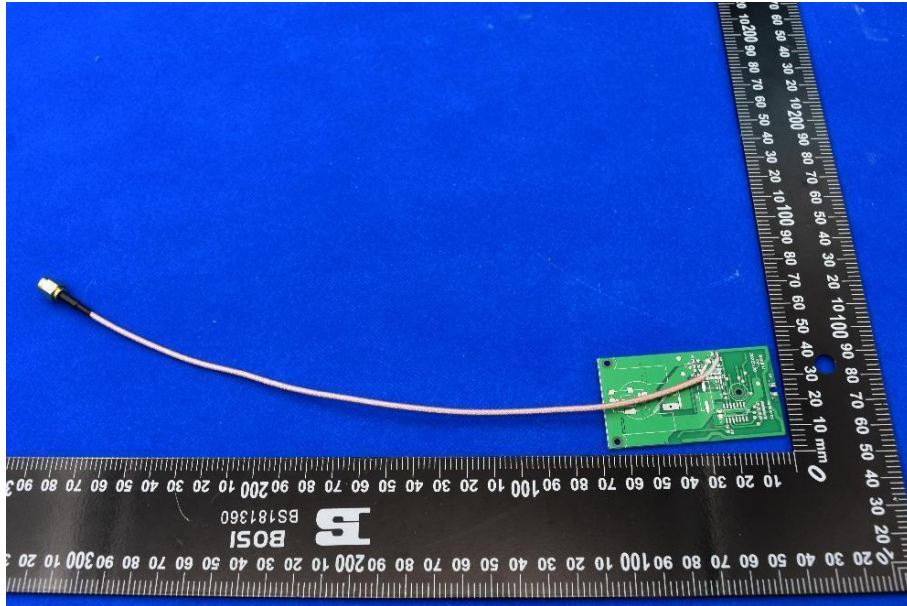
433.97MHz

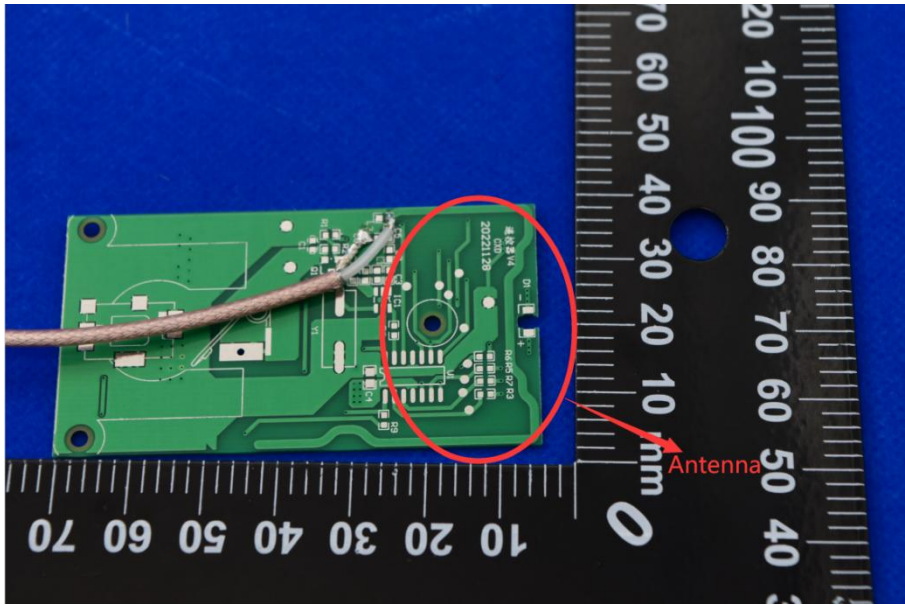
Annex C EUT Photos

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:	FL1-3, 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:	FL1-3, 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	Vector Network Analyzer	MY46214666	E5071C	Agilent	2022.03.01	2023.02.28
2	OTA Chamber	N/A	SG24	Satimo	2021.01.12	2024.01.11
3	SatEnv	N/A	2.0.1.5 build 12	Satimo	N/A	N/A
4	SPM	N/A	1.11	Satimo	N/A	N/A

————— END OF REPORT —————