



REPORT No.: SZ25120261E01

TEST REPORT

APPLICANT : Dongguan SCT Electronic Technology CO., Ltd.

PRODUCT NAME : 2.4G Antenna

MODEL NAME : ZL-PB2400-W3508FN16

TRADE NAME : N/A

BRAND NAME : N/A

STANDARD(S) : IEEE Std 149-2021

RECEIPT DATE : 2025-12-18

TEST DATE : 2025-12-18

ISSUE DATE : 2025-12-25



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MORLAB

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DIRECTORY

1. Technical Information	3
1.1. Applicant and Manufacturer Information	3
1.2. Equipment Under Test (EUT) Description	3
2. Test Results	4
2.1. Applied Reference Documents	4
2.2. Test Conditions	4
2.3. Measurement Uncertainty	4
2.4. Test Results lists	5
Annex A Test Setup Photos	6
Annex B Figures	7
1. 2D Radiation Pattern	7
2. 3D Radiation Pattern	8
3. VSWR	10
Annex C EUT Photos	11
Annex D General Information	14
1.1 Identification of the Responsible Testing Laboratory	14
1.2 Identification of the Responsible Testing Location	14
1.3 Test Equipments Utilized	14
1.4 Test Software Utilized	14

Change History		
Version	Date	Reason for change
1.0	2025-12-25	First edition

1. Technical Information

Note: Provide by applicant.

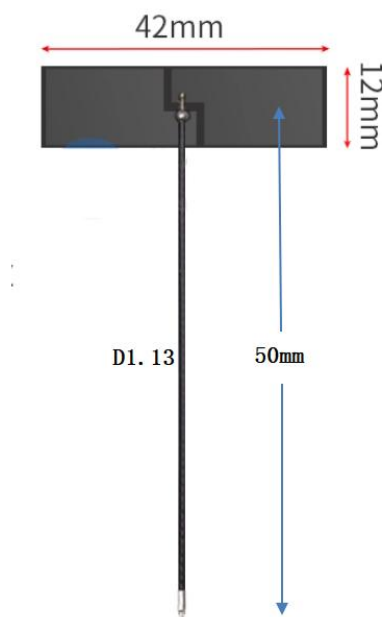
1.1. Applicant and Manufacturer Information

Applicant:	Dongguan SCT Electronic Technology CO., Ltd.
Applicant Address:	Building C, Dinghao Incubator Park, No. 33, Jinfu Road, Liaobu Town, Dongguan City, Guangdong Province, China.
Manufacturer:	Dongguan Lanlin Electronic Technology Co., Ltd
Manufacturer Address:	No.1,3rd Floor,4th Xinan Community,Songlin West Road,Chang'an Town,Dongguan
Factory:	N/A
Factory Address:	N/A

1.2. Equipment Under Test (EUT) Description

Wireless Type	N/A
Frequency	2400MHz-2500MHz
Serial number	N/A
Sample No.	1#

Dimensions:





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

Notes: Any additions, deviation, or exclusions from the method shall be noted in the "Remark".

2.2. Test Conditions

Test Environment Conditions:

Relative Humidity(%):	25 - 75
Temperature(°C):	10 - 30

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.

2.4. Test Results lists

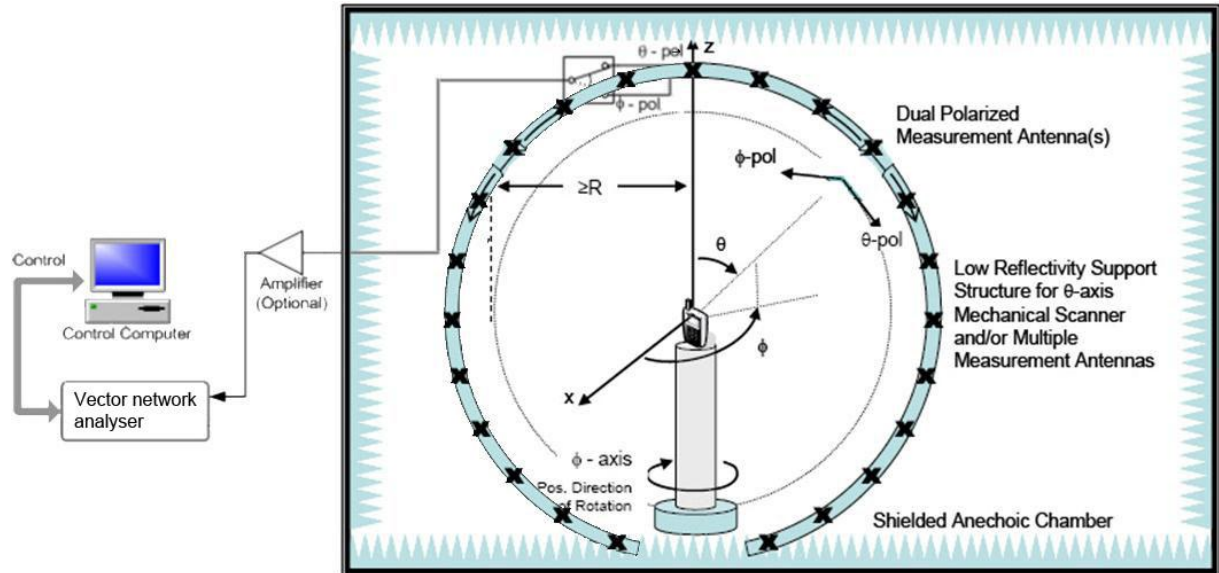
2.4.1. Gain

Frequency (MHz)	Gain(dBi)
2400	1.74
2410	2.02
2420	2.07
2430	2.10
2440	2.26
2450	2.32
2460	2.36
2470	2.27
2480	2.11
2490	2.12
2500	2.30

2.4.2. VSWR

Frequency (MHz)	VSWR
2400	2.56
2450	2.31
2500	1.85

Annex A Test Setup Photos

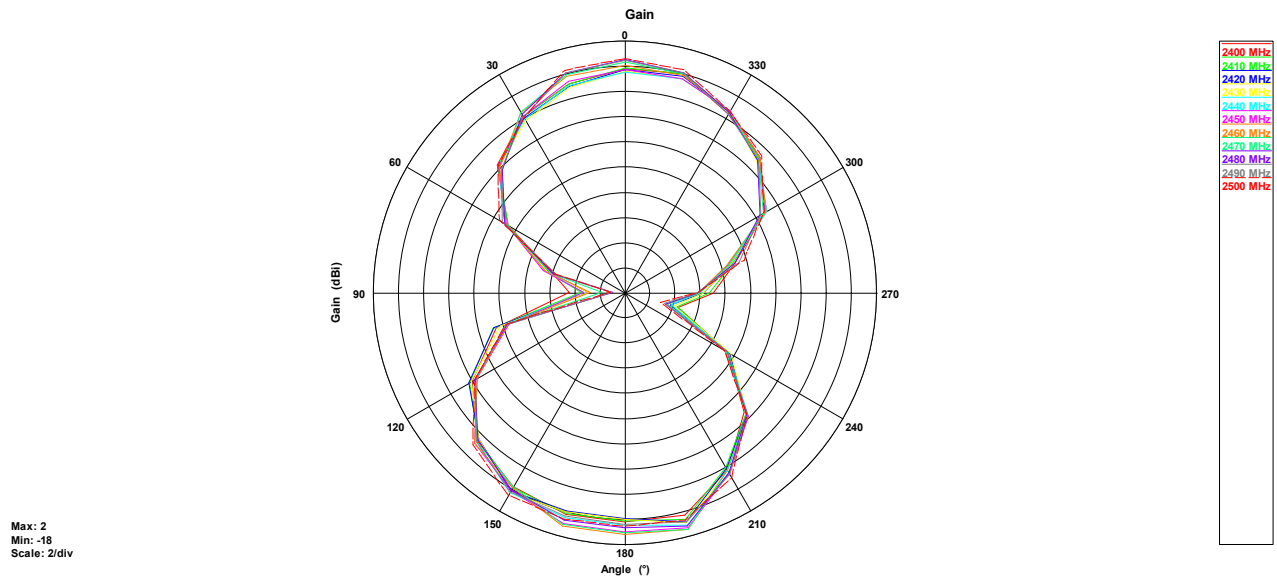




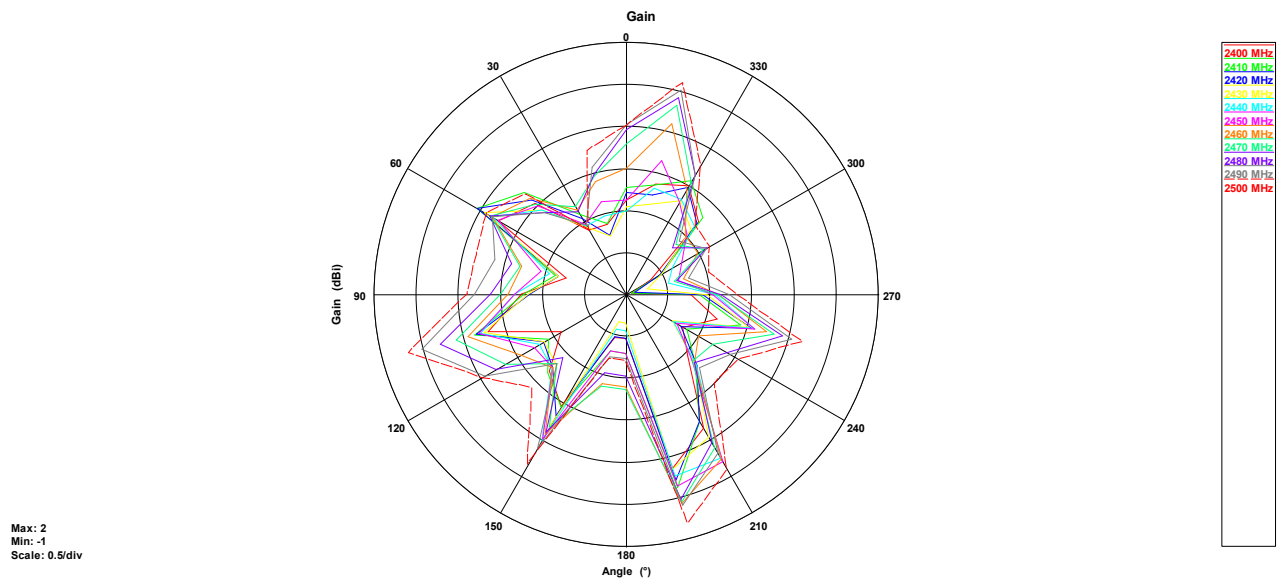
Annex B Figures

1. 2D Radiation Pattern

Phi=0°

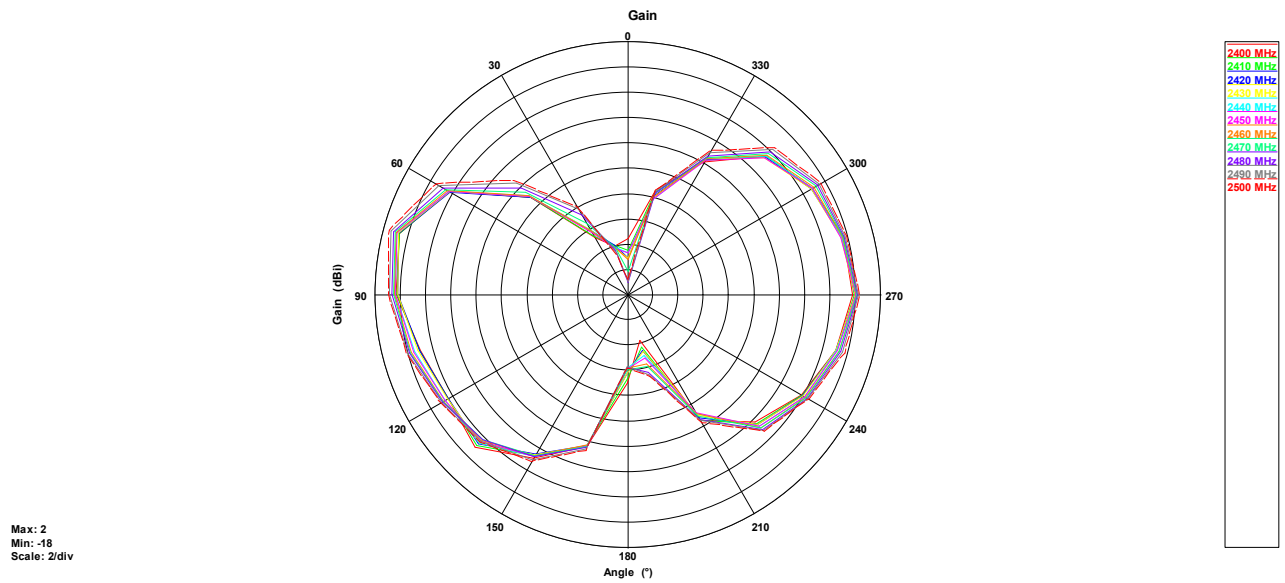


Phi=90°

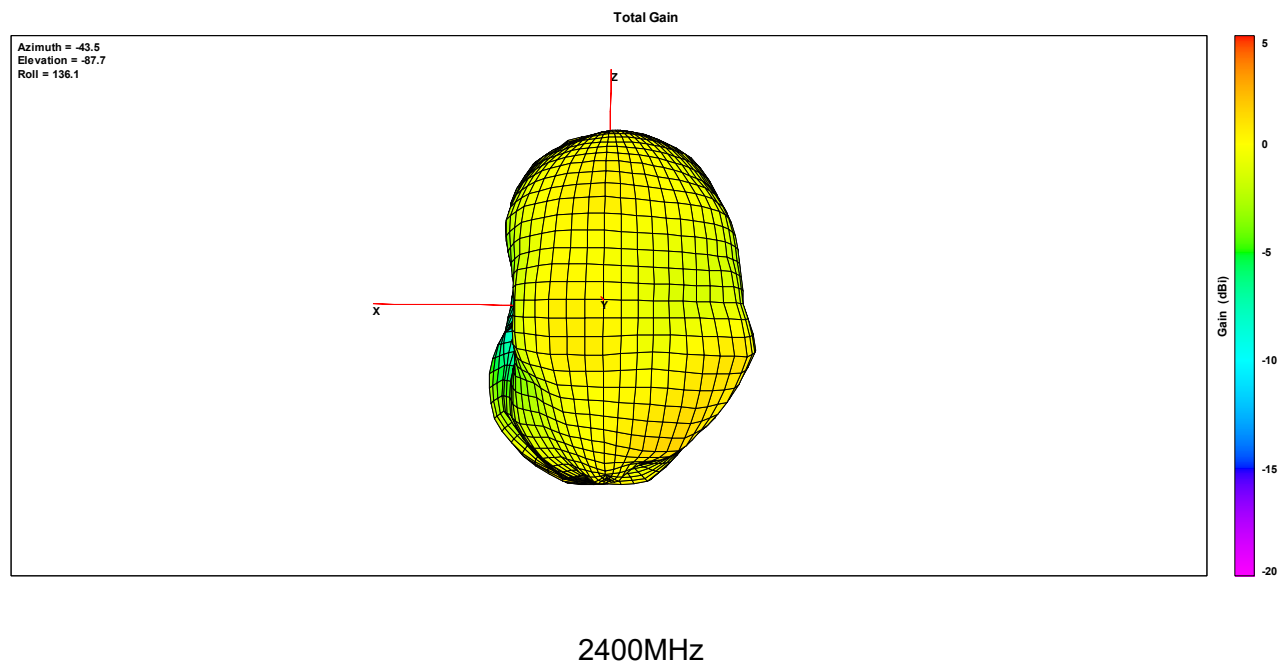


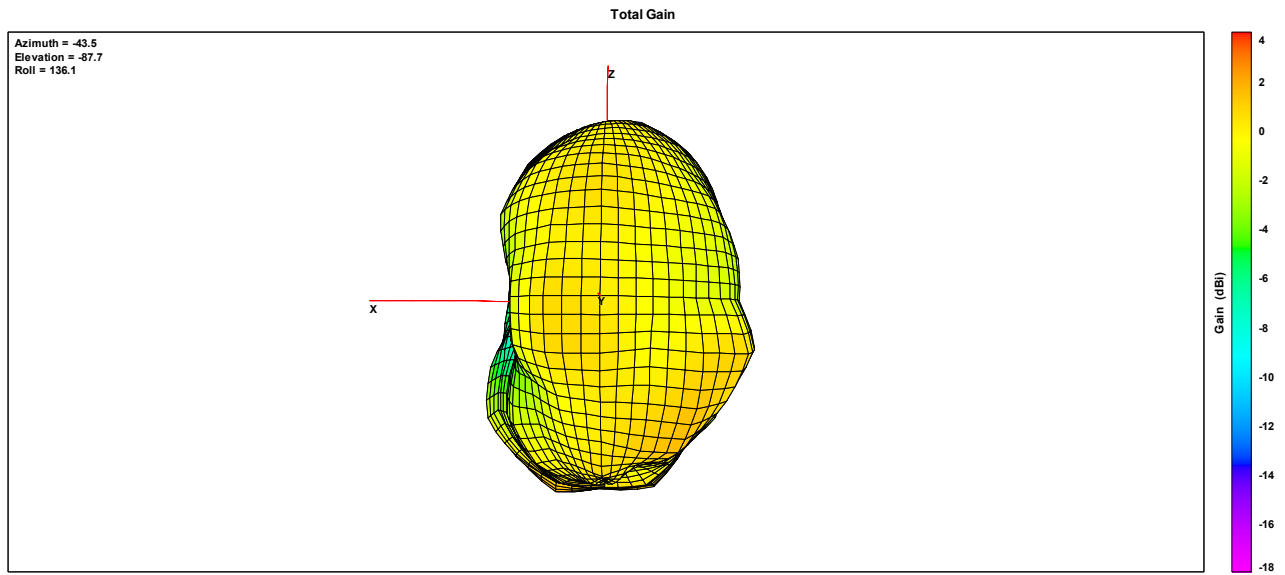


Theta=90°

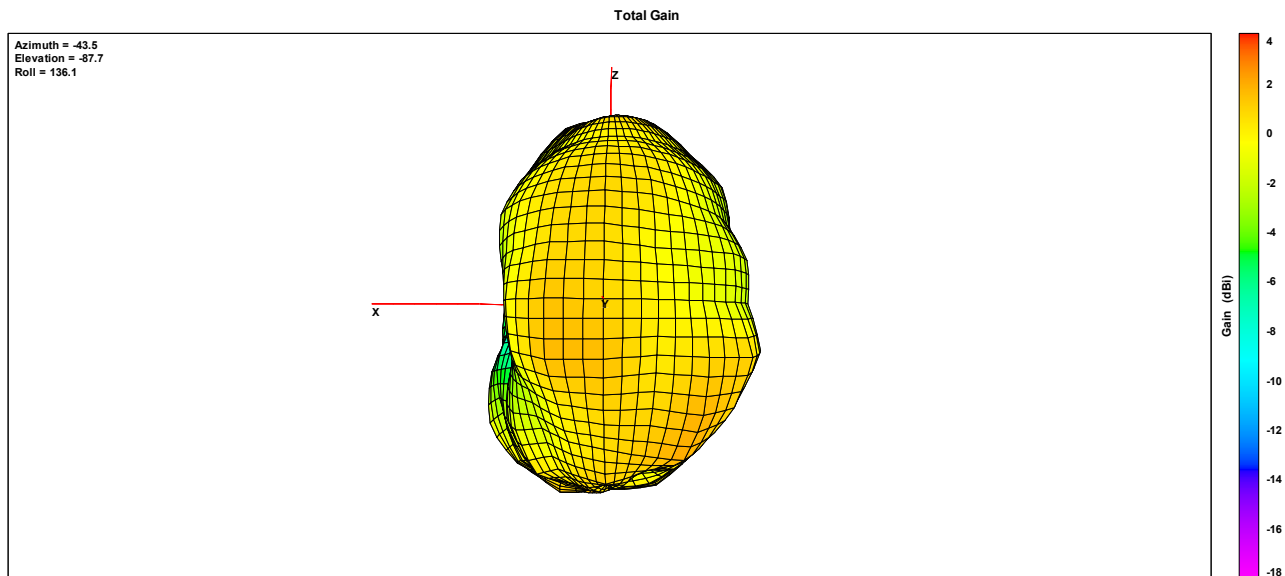


2. 3D Radiation Pattern





2450MHz



2500MHz

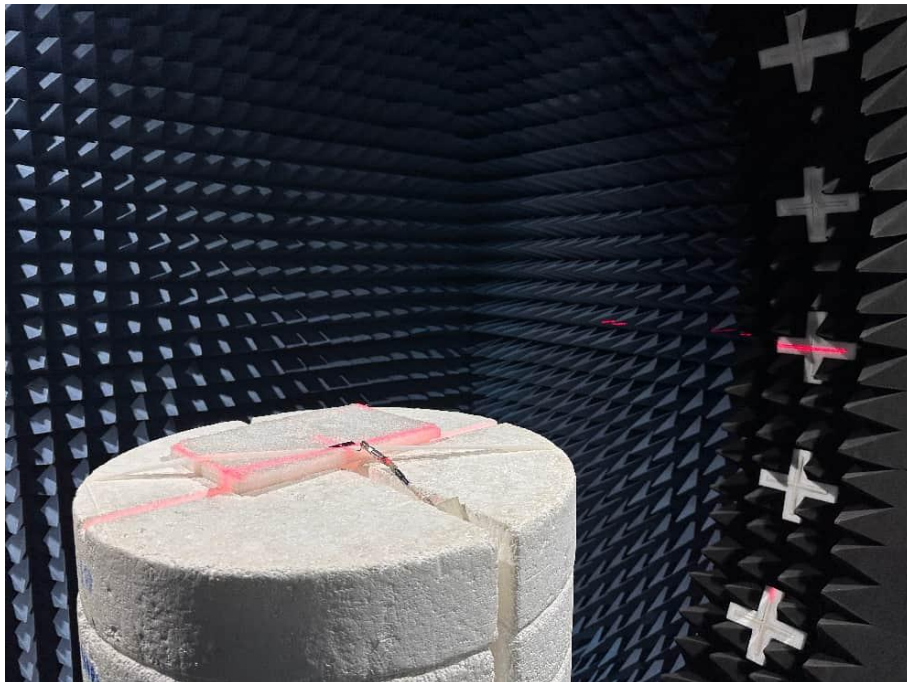


3. VSWR

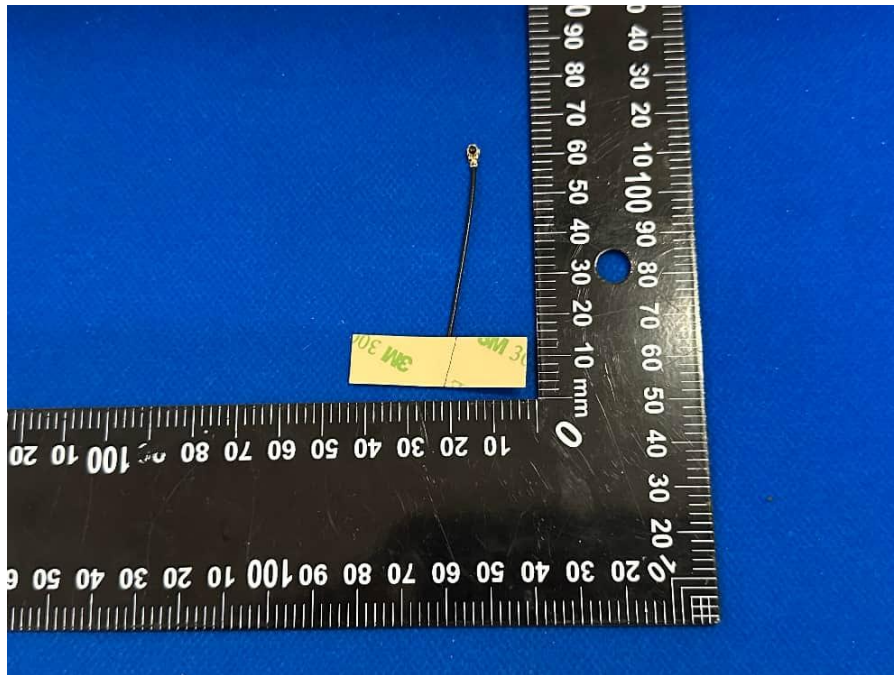
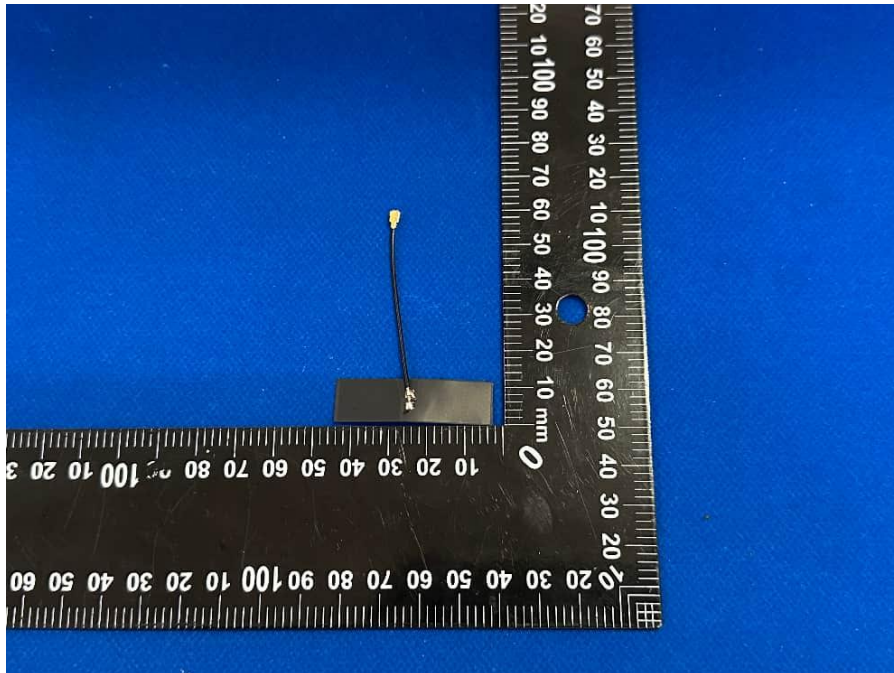


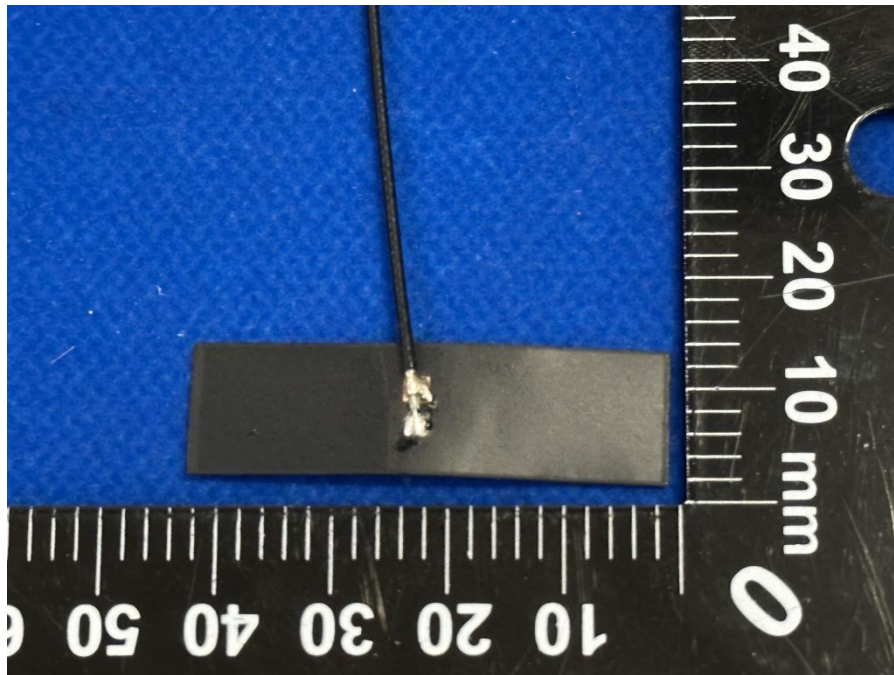
Annex C EUT Photos

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.	Equipement Name	Serial No.	Type	Manufacturer	Cal.Date	Cal.Due Date
1	Network Analyzer	MY46110140	E5071C	Agilent	2025.05.13	2026.05.12
2	OTA Chamber	TJ2235-Q1793	AMS-8923 -150	ETS	2025.11.15	2028.11.14

1.4 Test Software Utilized

No.	Software Name	Serial No.	Version	Manufacturer
1	Antenna Measurement System	1685	EMQuest EMQ-100 V 1.13 Build 21267	ETS

————— END OF REPORT —————