



# TEST REPORT

**APPLICANT** : Gemstar Technology(Yangzhou) Co.Ltd

**PRODUCT NAME** : Remote control

**MODEL NAME** : BV Sky LC102 2023

**TRADE NAME** : N/A

**BRAND NAME** : N/A

**STANDARD(S)** : IEEE Std 149-2021

**RECEIPT DATE** : 2023-01-09

**TEST DATE** : 2023-01-10

**ISSUE DATE** : 2023-01-12

Edited by:

Fang Jinshan(Rapporteur)

Approved by:

Chi Shide(Supervisor)

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Change History		
Version	Date	Reason for change
1.0	2023-01-12	First edition



# 1. Technical Information

Note: Provide by Applicant.

## 1.1. Applicant and Manufacturer Information

<b>Applicant:</b>	Gemstar Technology(Yangzhou) Co.Ltd
<b>Applicant Address:</b>	Room 606, Guofa building, #3110 Renmin Road, Suzhou, Jiangsu Province, China
<b>Manufacturer:</b>	N/A
<b>Manufacturer Address:</b>	N/A

## 1.2. Equipment Under Test (EUT) Description

<b>Wireless Type</b>	Bluetooth
<b>Frequency</b>	2402MHz-2480MHz
<b>IMEI</b>	N/A
<b>Sample No.</b>	1#&2#

## 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.

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

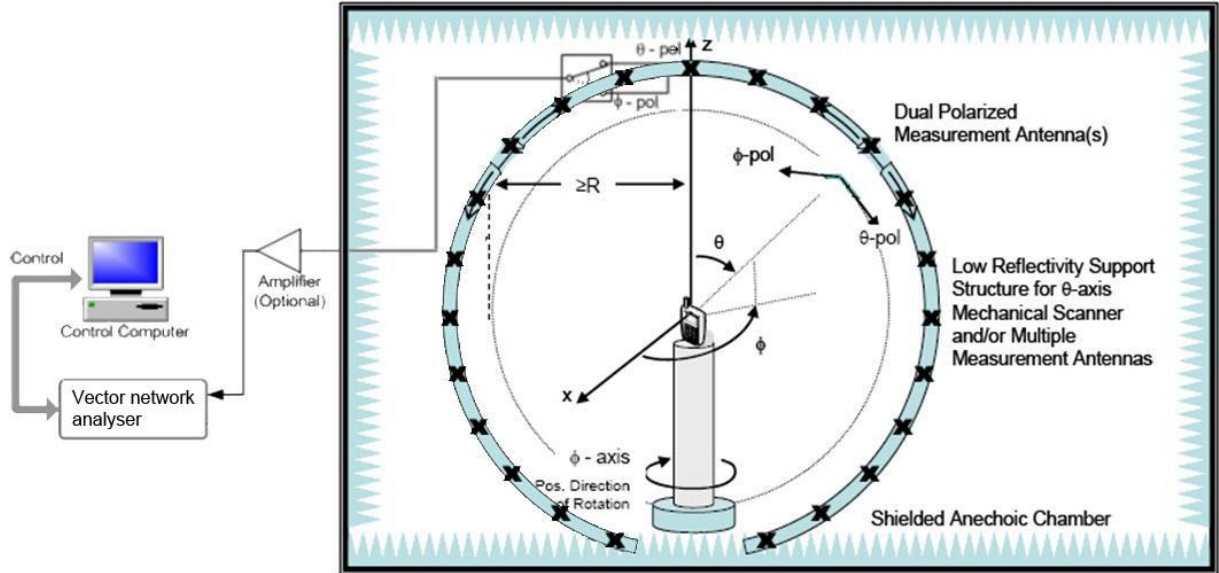


## 2.4. Test Results lists

### 2.4.1. Gain and Efficiency

Frequency (MHz)	Gain(dBi)		Efficiency(%)		Efficiency(dB)	
	1#	2#	1#	2#	1#	2#
2400	0.23	0.13	38.90	37.99	-4.10	-4.20
2402	0.28	0.17	39.13	38.28	-4.08	-4.17
2410	0.24	0.13	38.46	37.66	-4.15	-4.24
2420	0.10	0.06	37.39	36.74	-4.27	-4.35
2430	-0.01	0.07	36.57	36.07	-4.37	-4.43
2440	0.07	0.13	36.74	36.26	-4.35	-4.41
2450	0.21	0.21	37.00	36.51	-4.32	-4.38
2460	0.21	0.20	36.40	35.83	-4.39	-4.46
2470	0.16	0.10	35.03	34.45	-4.56	-4.63
2480	0.08	0.03	34.00	33.42	-4.68	-4.76
2490	-0.03	0.06	32.86	32.21	-4.83	-4.92
2500	0.15	0.20	32.77	32.10	-4.85	-4.93

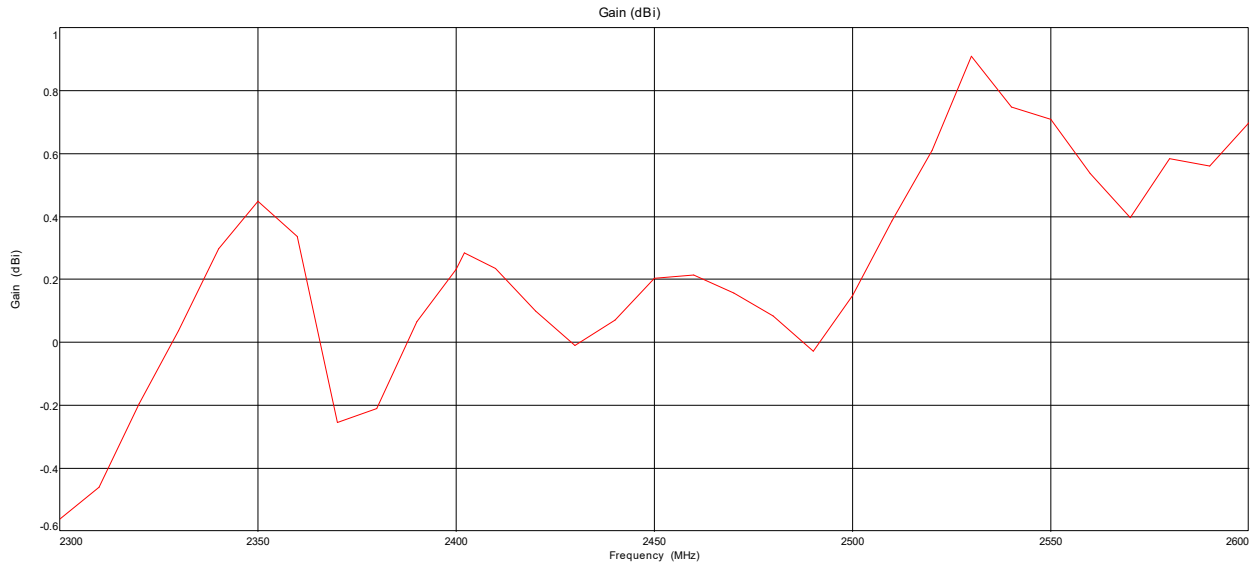
## Annex A Test Setup Photos



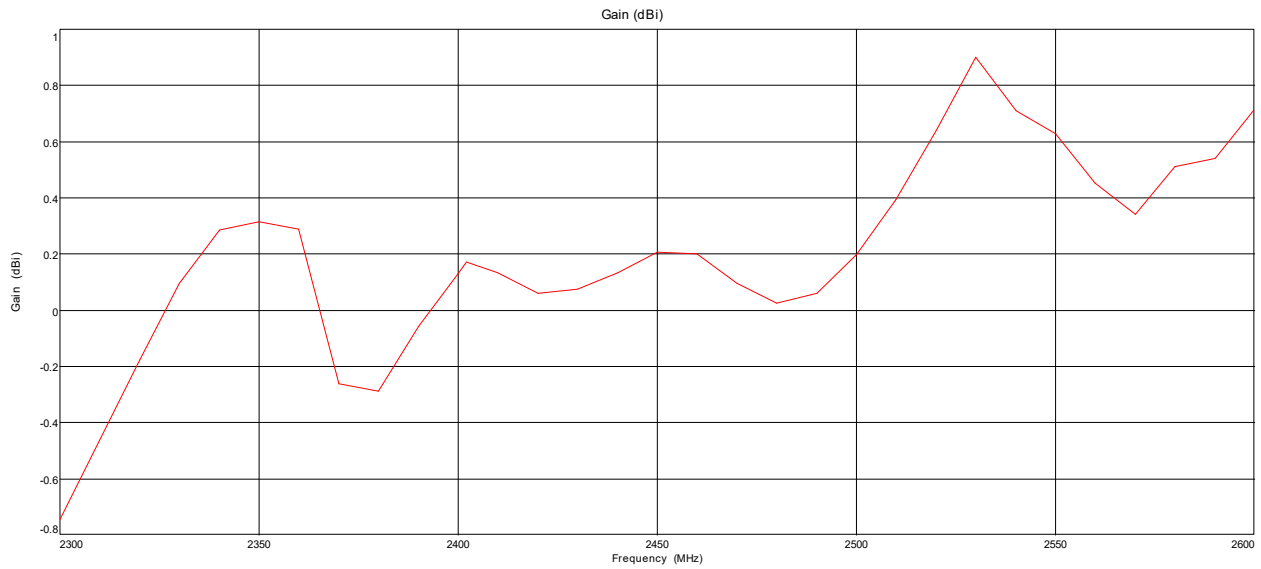
## Annex B Figures

### 1. 2D Radiation Pattern

Gain



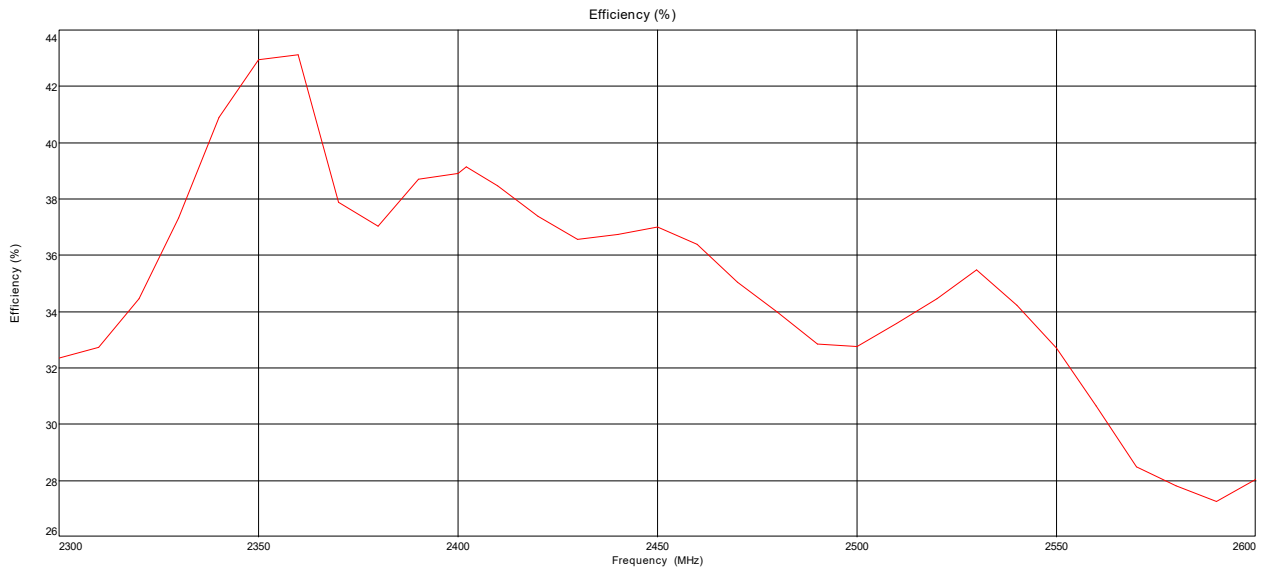
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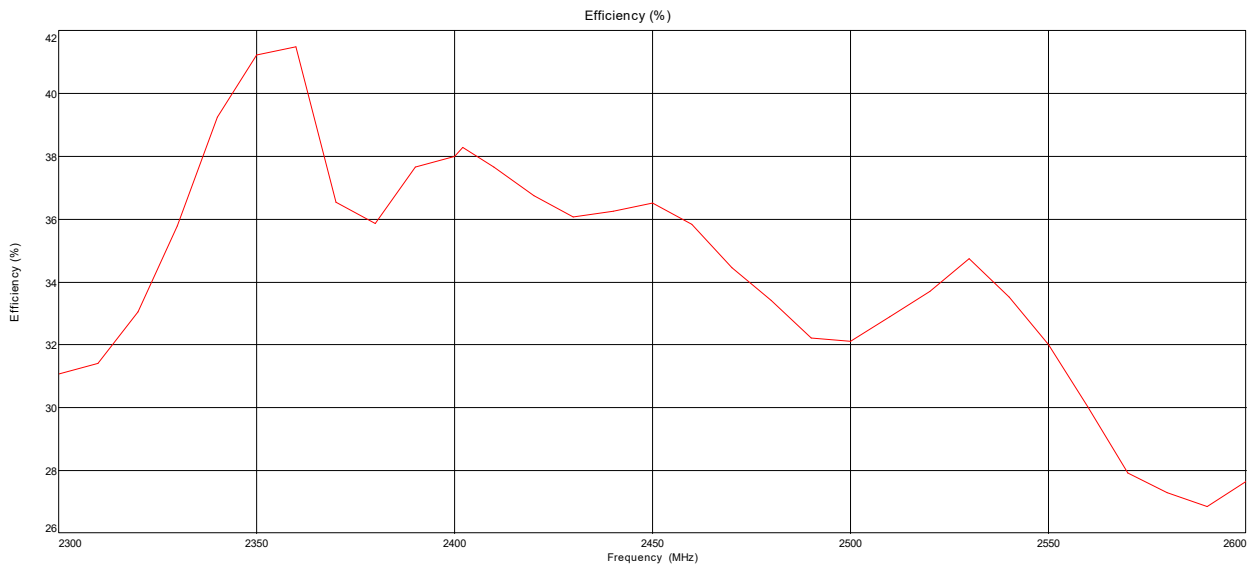
2#



### Efficiency



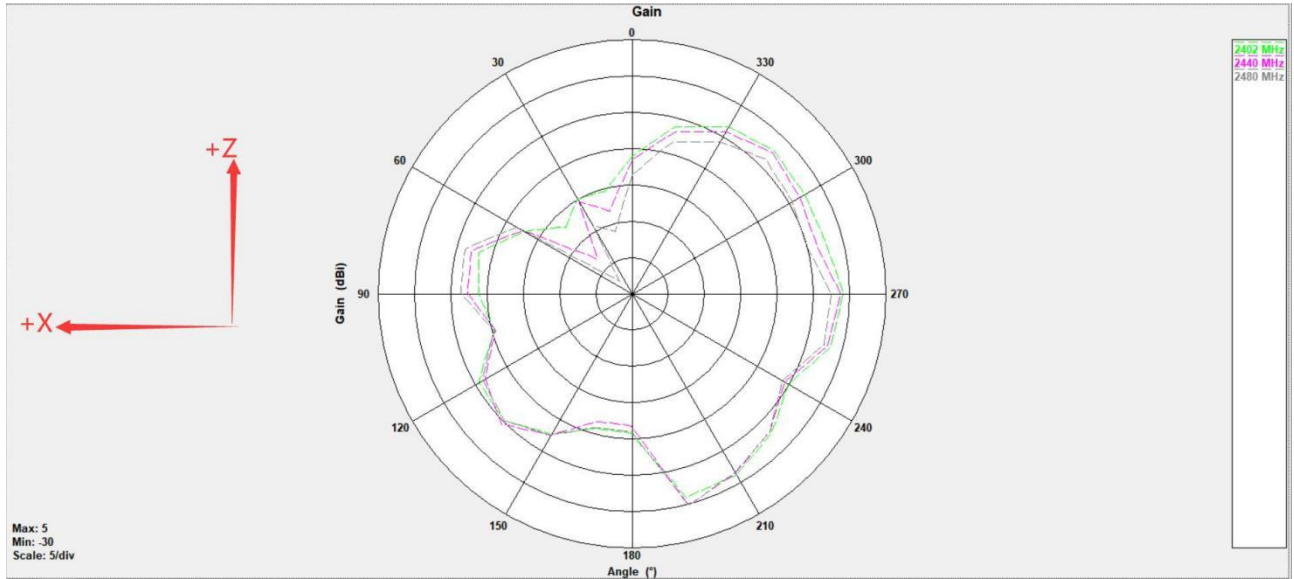
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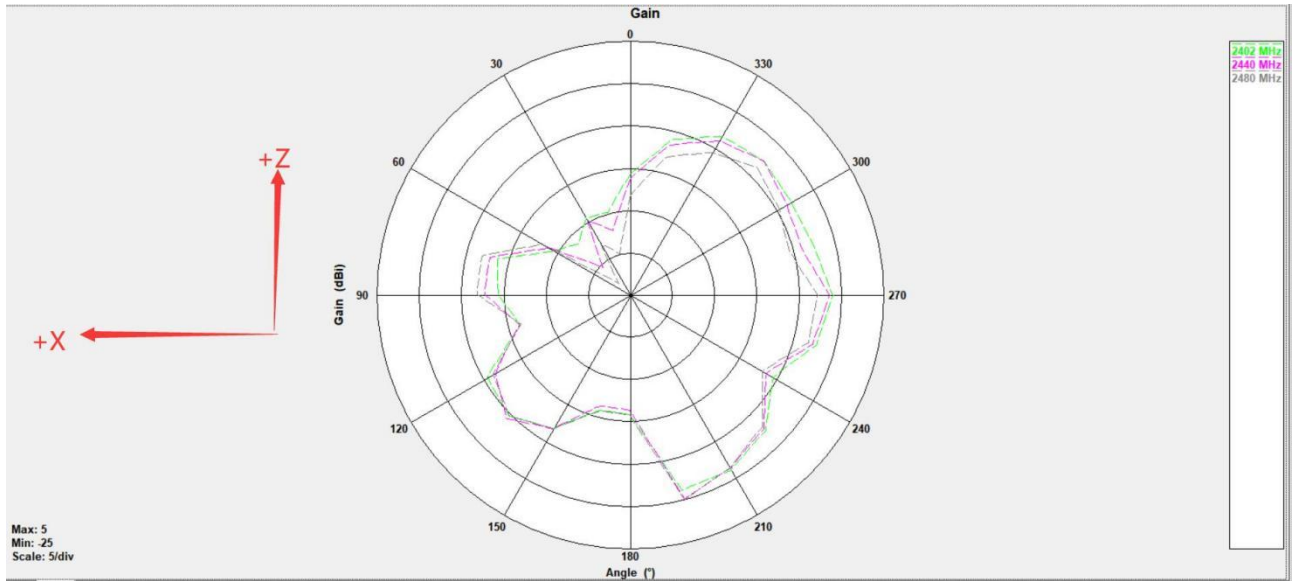
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Phi=0°

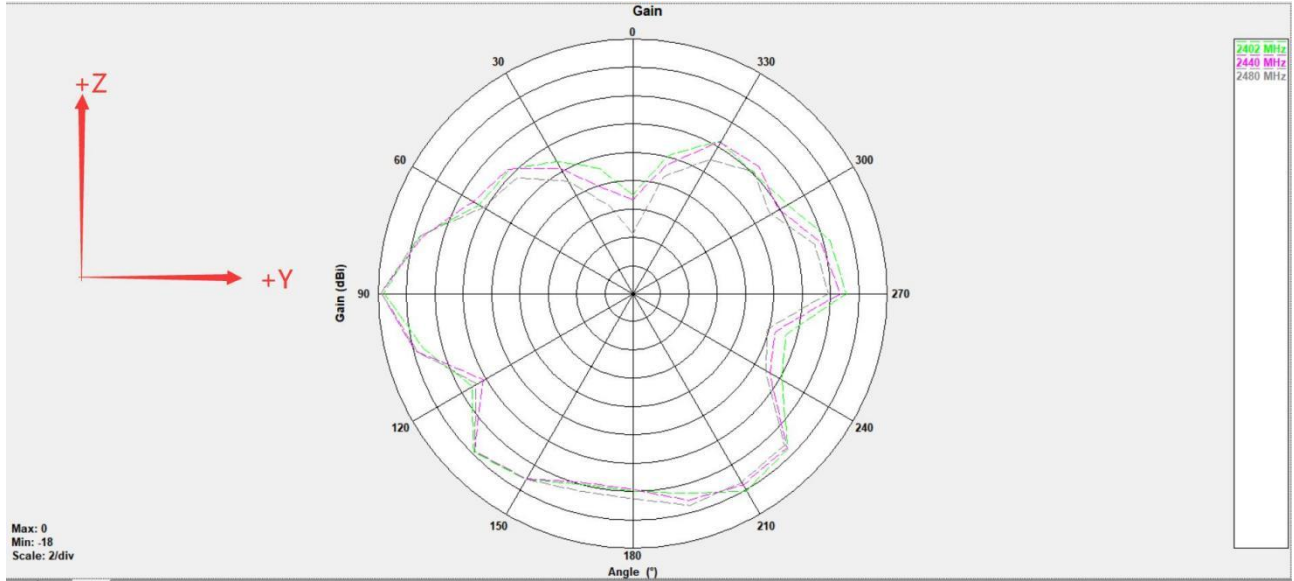


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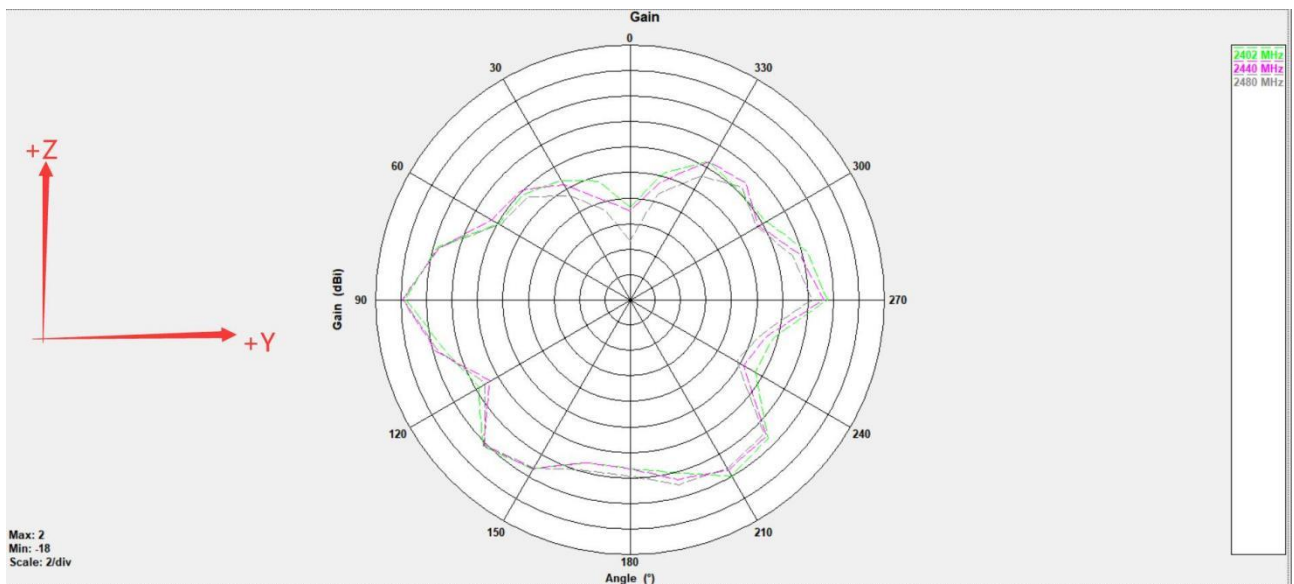


2#

Phi=90°

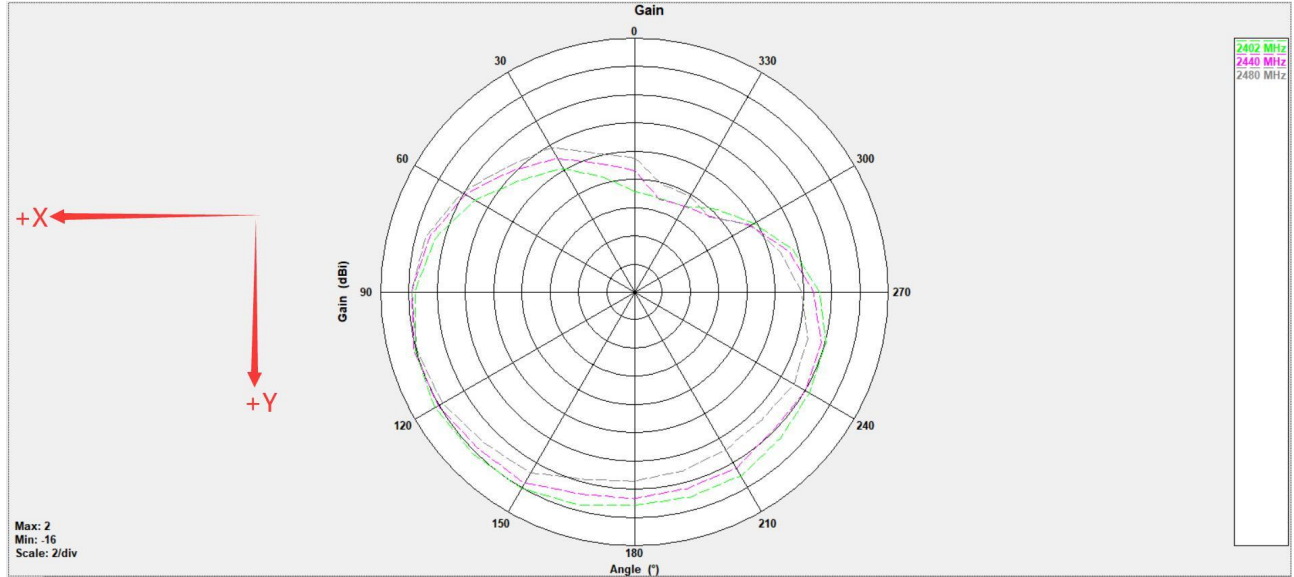


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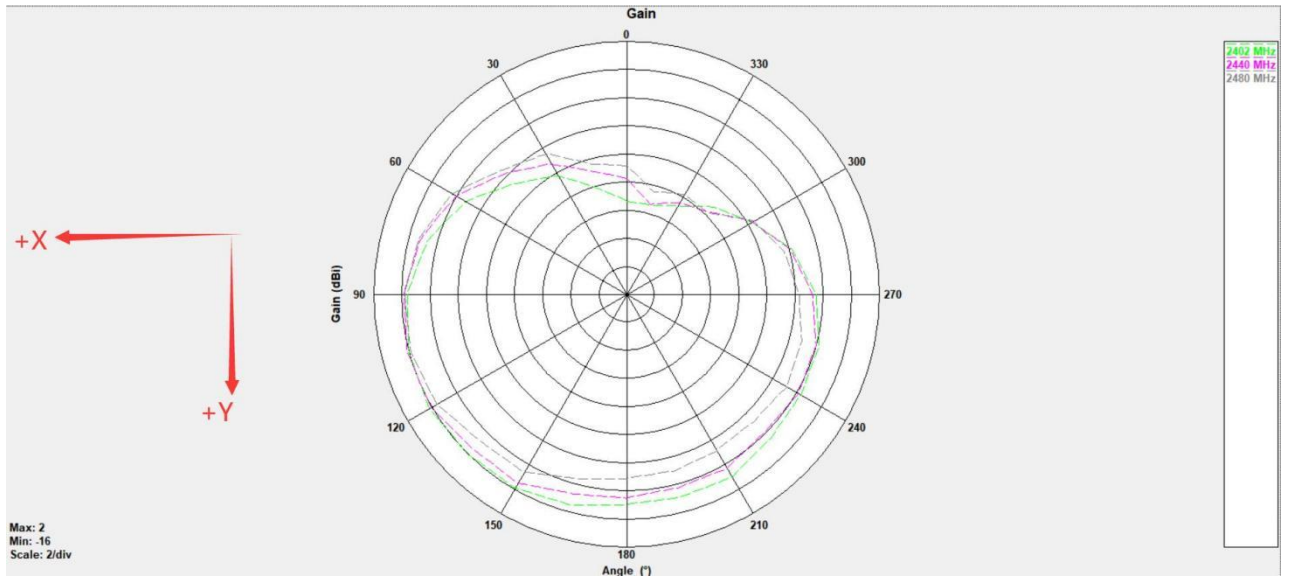


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Theta=90°

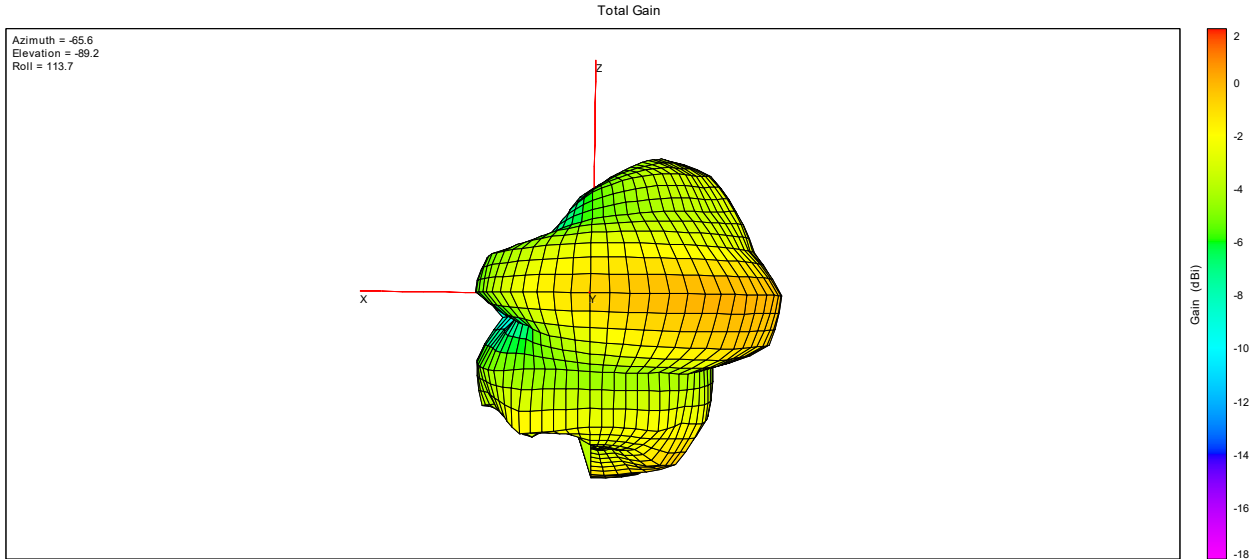


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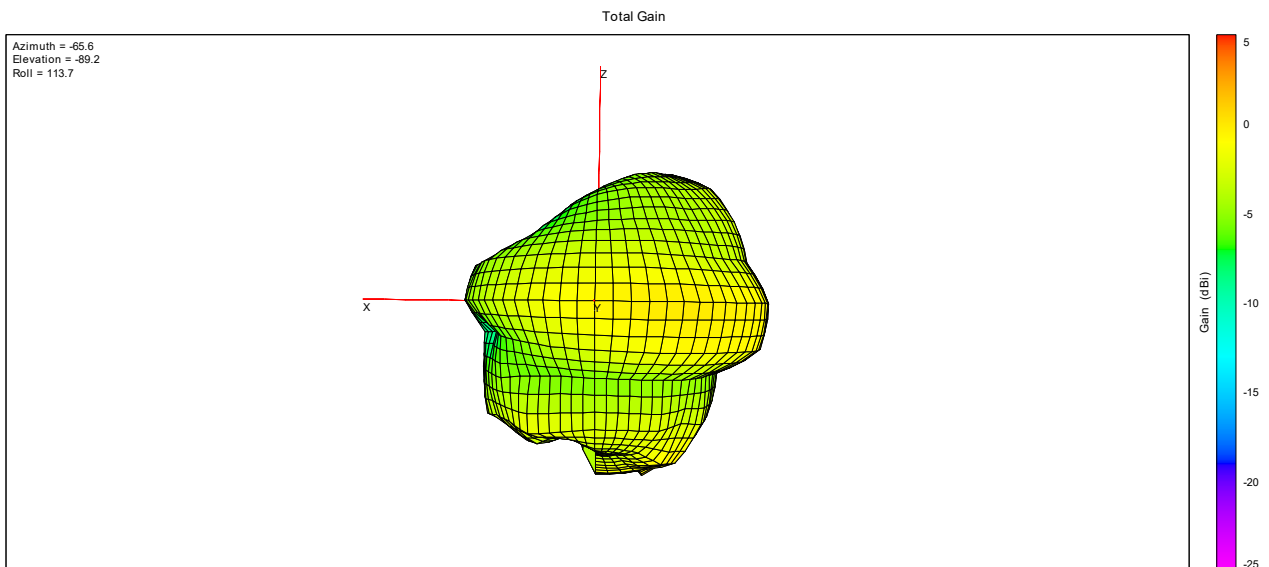


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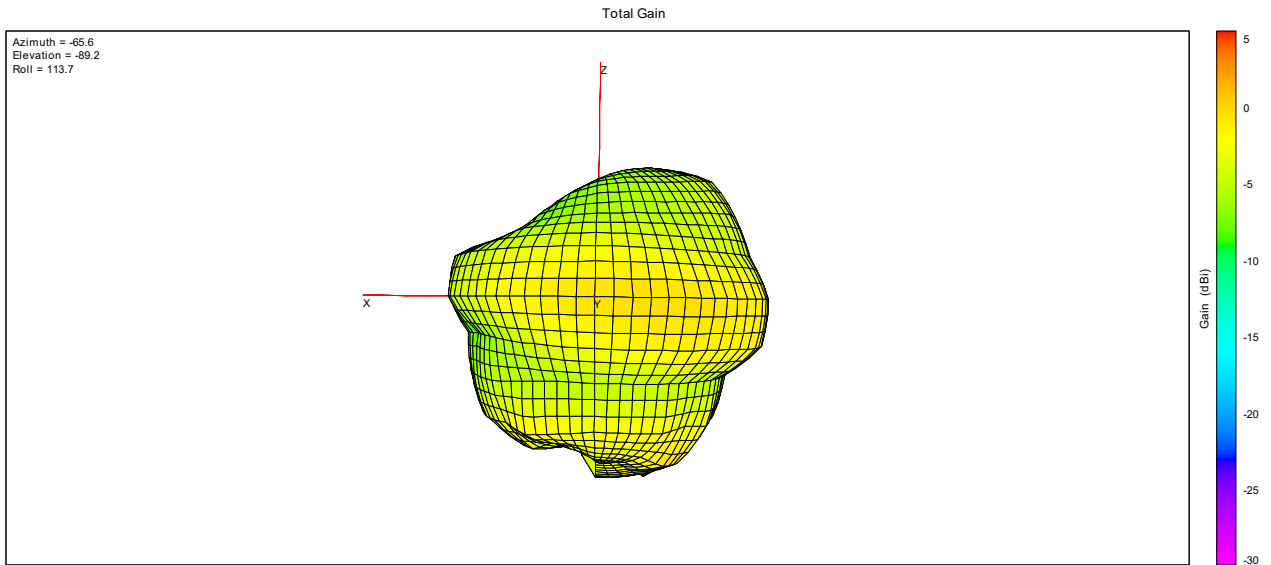
## 2. 3D Radiation Pattern



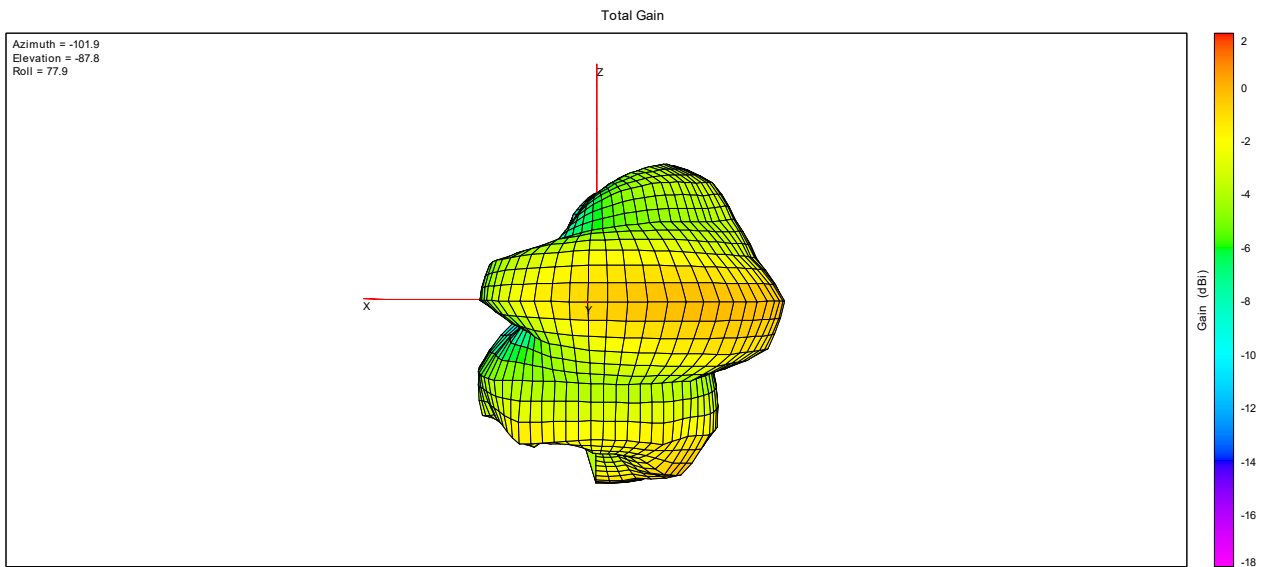
2402MHz\_1#



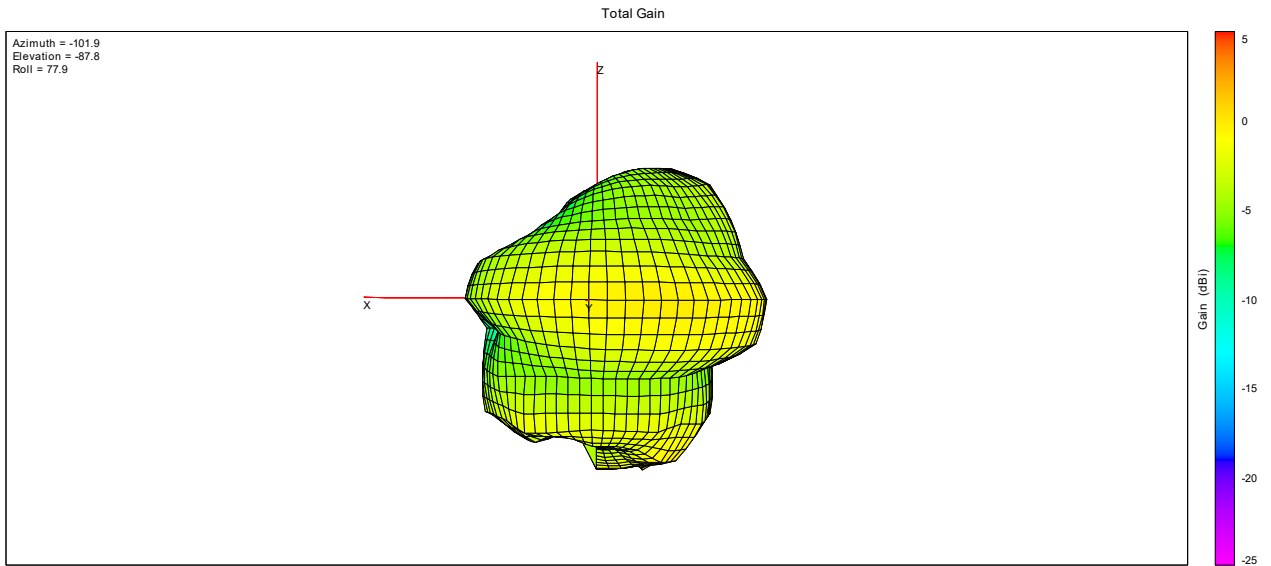
2440MHz\_1#



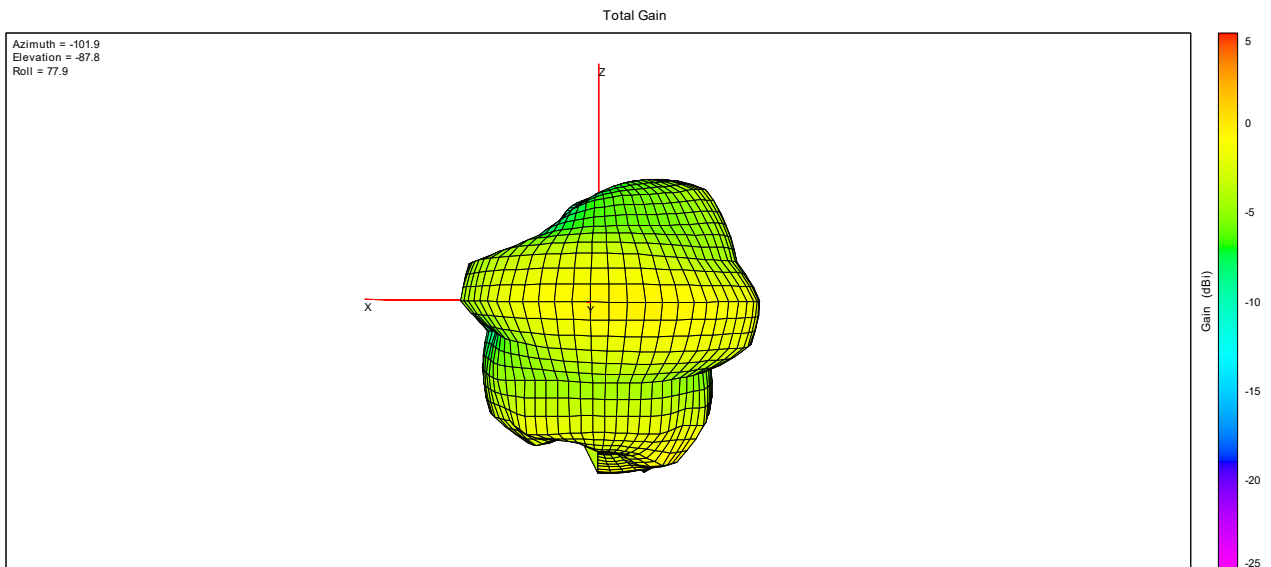
2480MHz\_1#



2402MHz\_2#



2440MHz\_2#

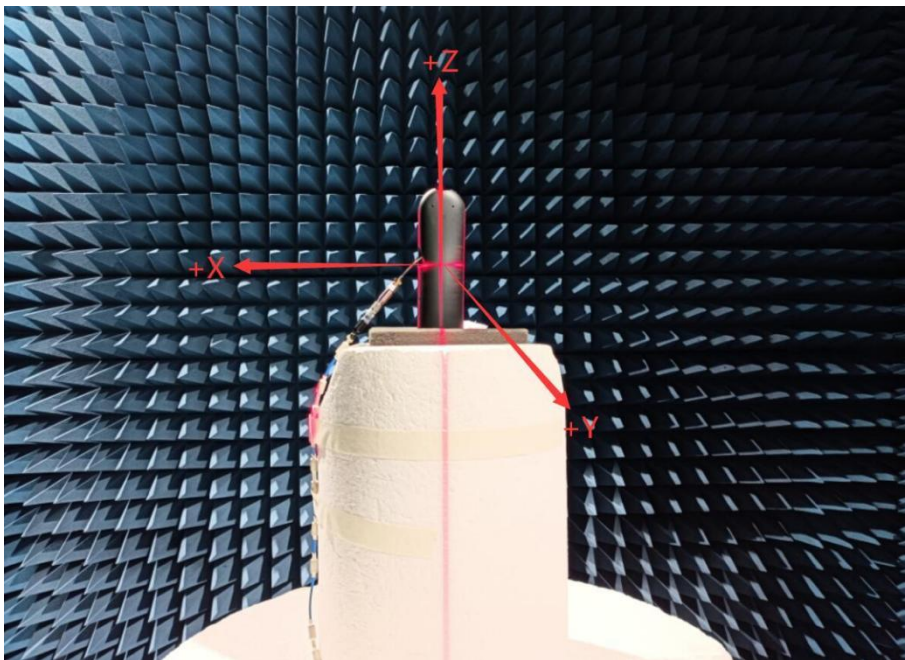
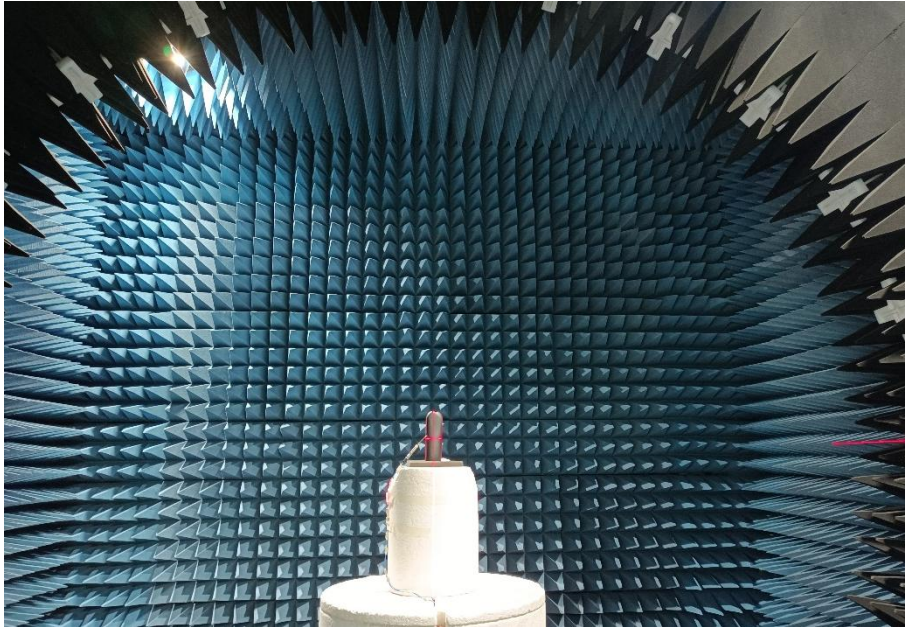


2480MHz\_2#

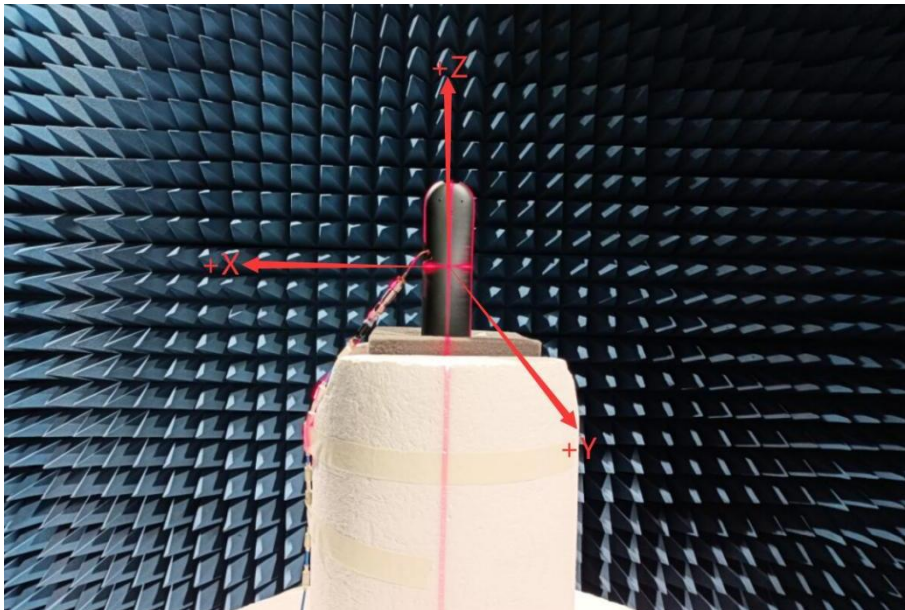
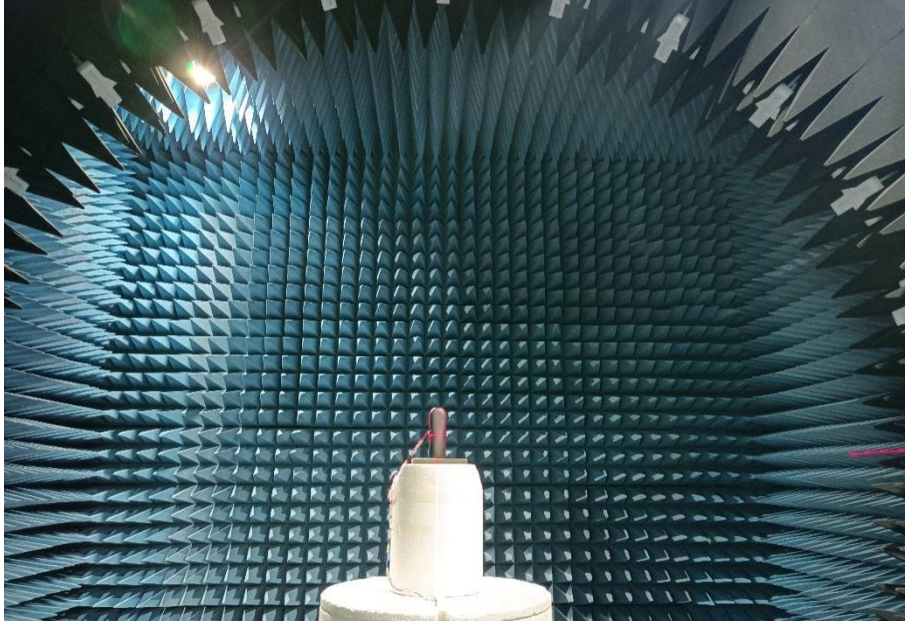


## Annex C EUT Photos

### 1. Test environment



1#

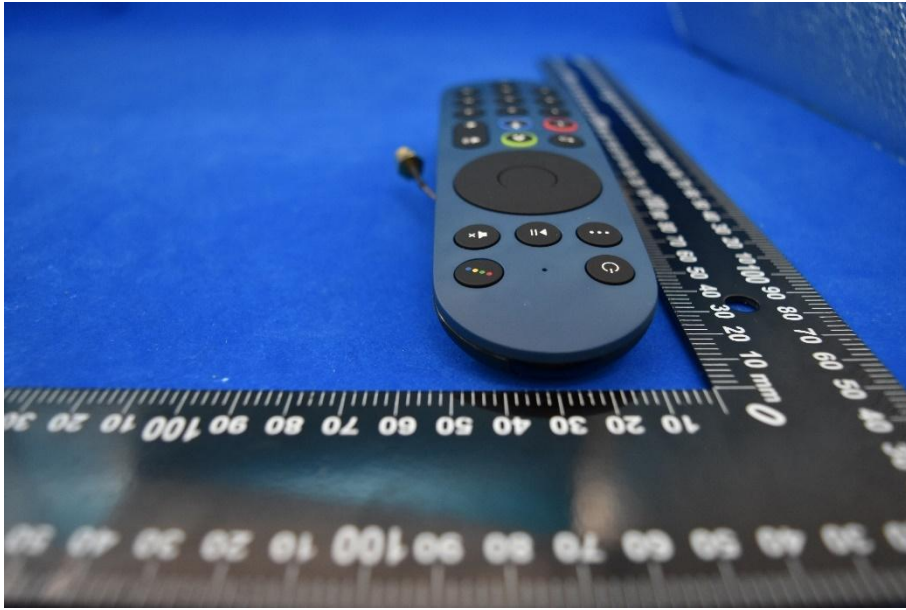


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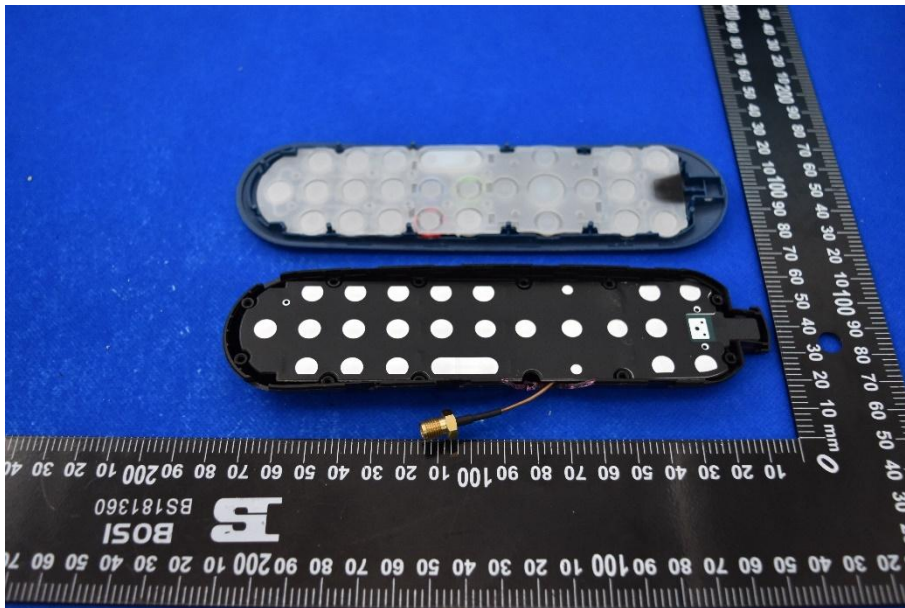
2. EUT

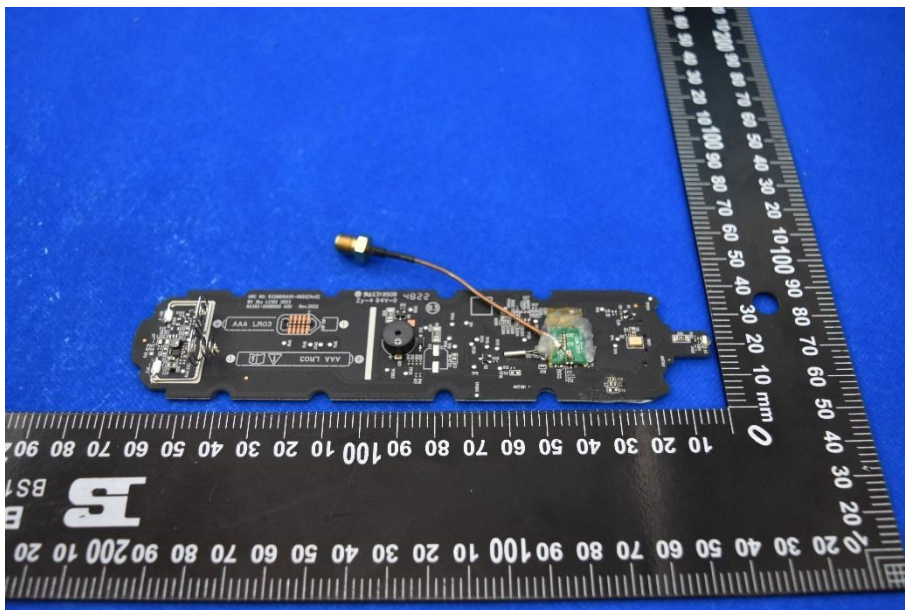
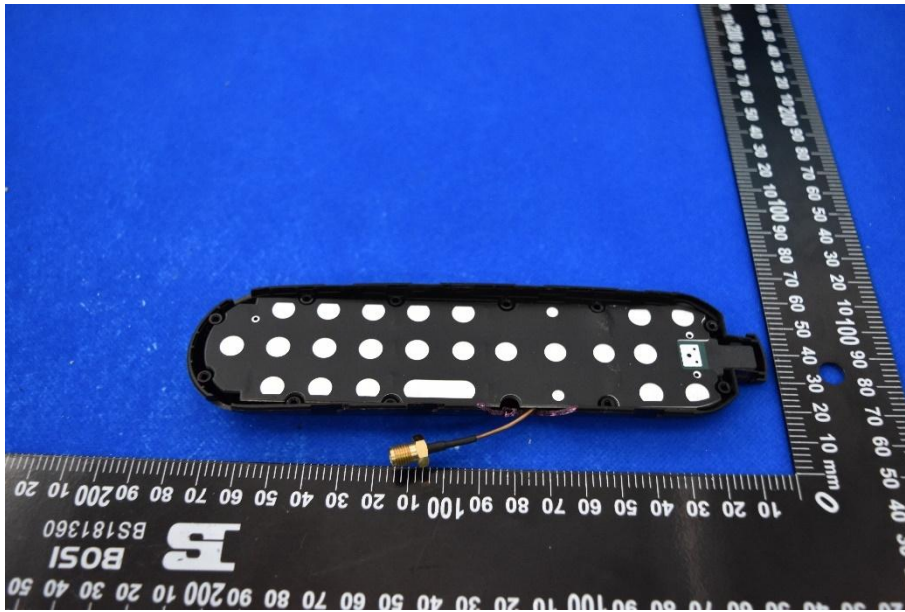




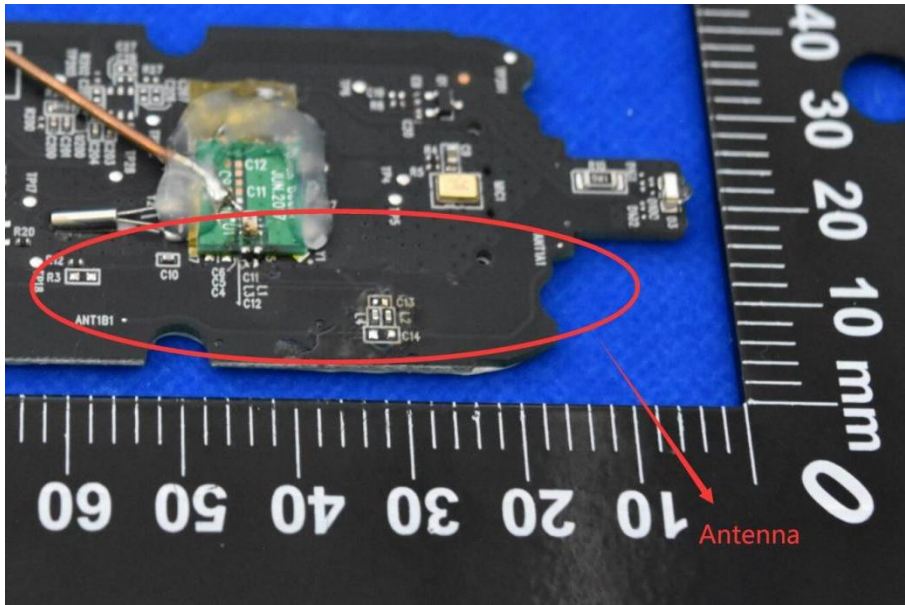












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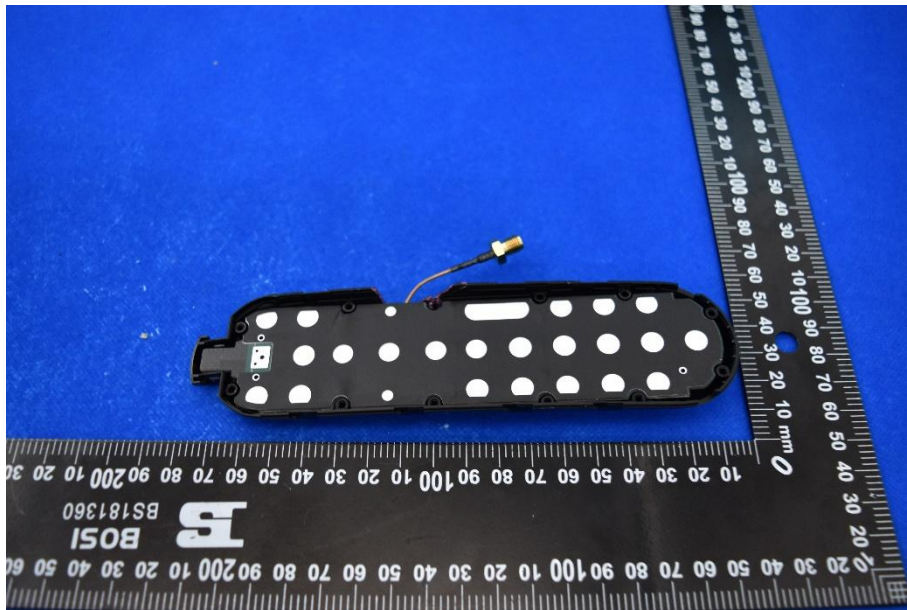
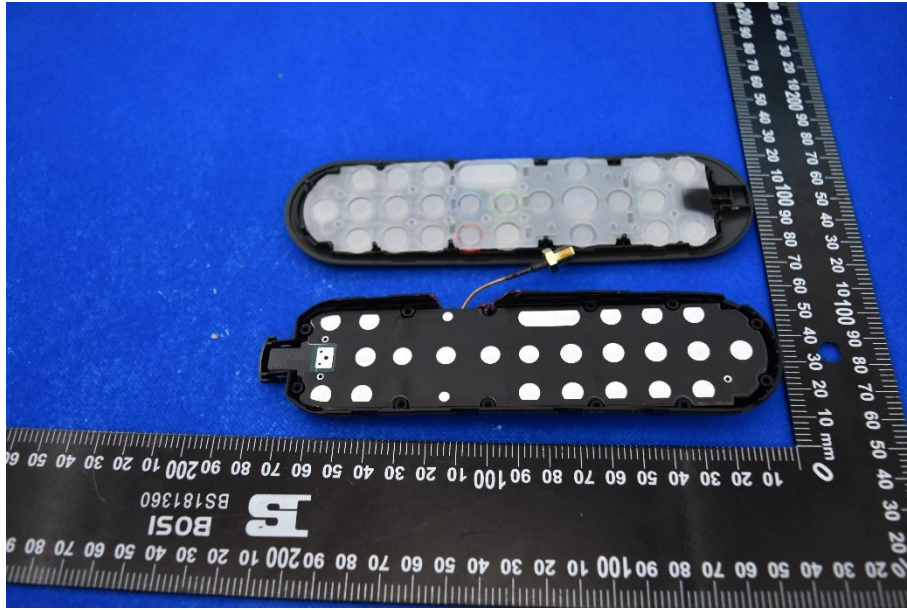




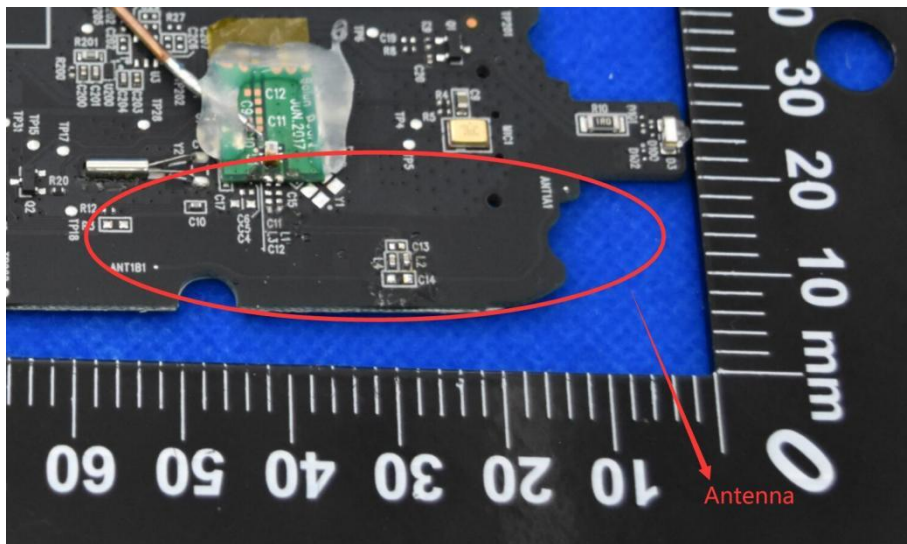
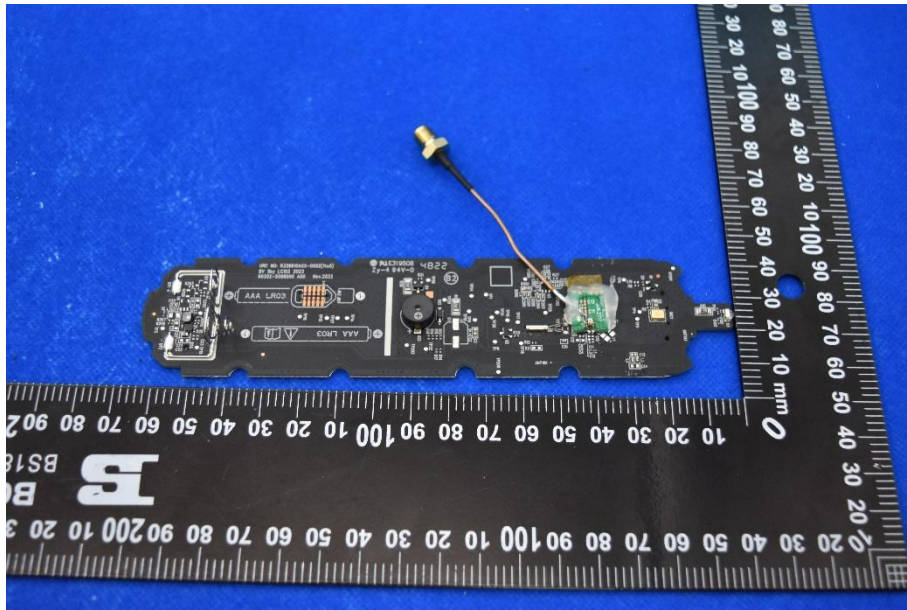












2#



## 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.	Equipement Name	Serial No.	Type	Manufacturer	Cal.Date	Cal.Due Date
1	Network Analyzer	MY46110140	E5071C	Agilent	2022.07.04	2023.07.03
2	OTA Chamber	TJ2235-Q1793	AMS-892 3-150	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 —————