REPORT No.: SZ24010180E01

TEST REPORT

APPLICANT	:	Gemstar Technology(Yangzhou) Co.Ltd
PRODUCT NAME	:	Remote control
MODEL NAME	:	EOS PR3 With Digitsremote
TRADE NAME	:	N/A
BRAND NAME	:	N/A
STANDARD(S)	:	IEEE Std 149-2021
RECEIPT DATE	:	2024-01-29
TEST DATE	:	2024-01-29
ISSUE DATE	:	2024-01-30

Edited by: Fang Jinshan(Rapporteur)

Approved by: Chi Shide(Supervisor)

MORLAB
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DIRECTORY

Change History		
Version	Date	Reason for change
1.0	2024-01-30	First edition

1.Technical Information

Note: Provide by Applicant.

1.1. Applicant and Manufacturer Information

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

1.2. Equipment Under Test (EUT) Description

Wireless Type	Bluetooth
Frequency	2400MHz-2500MHz
IMEI	N/A
Sample No.	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(°C):	10 – 30

2.3. Measurement Uncertainty

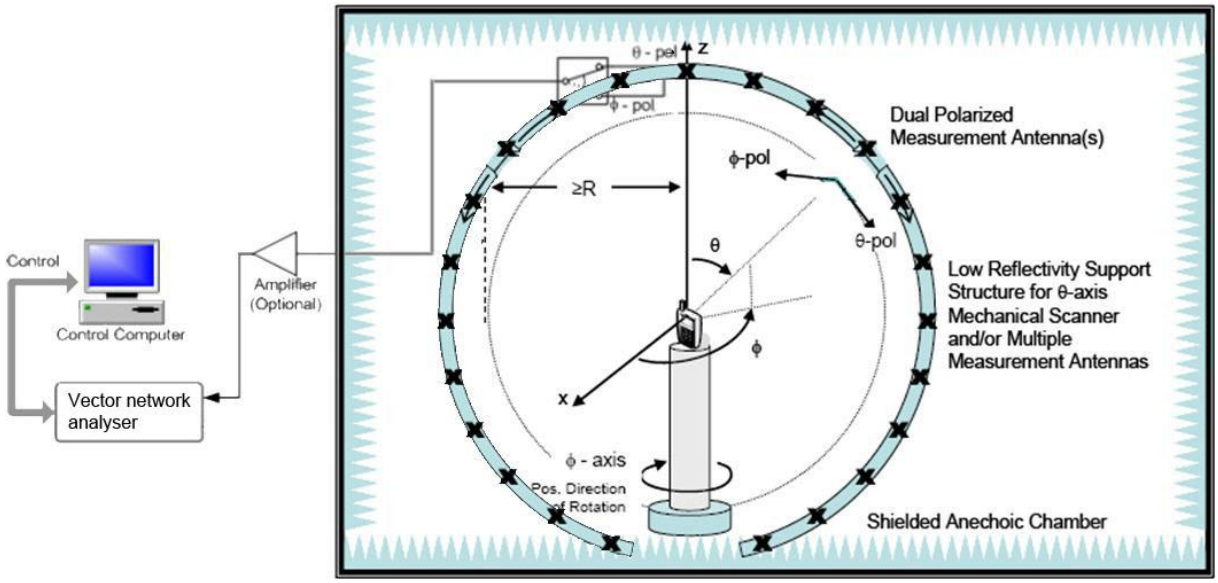
The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in Measurement” (GUM) published by ISO. When the test result is a critical value,we will use the measurement uncertainty give the judgment result based on the 95% Confidence intervals.

2.4. Test Results lists

2.4.1. Gain and Efficiency

Frequency (MHz)	Gain(dBi)		Efficiency(%)		Efficiency(dB)	
	1#	2#	1#	2#	1#	2#
2400	-1.60	-1.25	28.40	29.41	-5.47	-5.32
2402	-1.55	-1.27	28.47	29.48	-5.46	-5.30
2410	-1.57	-1.39	27.98	28.84	-5.53	-5.40
2420	-1.54	-1.44	27.55	28.31	-5.60	-5.48
2430	-1.62	-1.47	27.08	27.66	-5.67	-5.58
2440	-1.46	-1.42	27.59	27.97	-5.59	-5.53
2450	-1.36	-1.34	28.36	28.58	-5.47	-5.44
2460	-1.29	-1.33	28.51	28.55	-5.45	-5.44
2470	-1.30	-1.45	28.04	28.03	-5.52	-5.52
2480	-1.42	-1.62	27.80	27.76	-5.56	-5.57
2490	-1.49	-1.76	27.24	27.19	-5.65	-5.66
2500	-1.43	-1.71	27.51	27.35	-5.61	-5.63

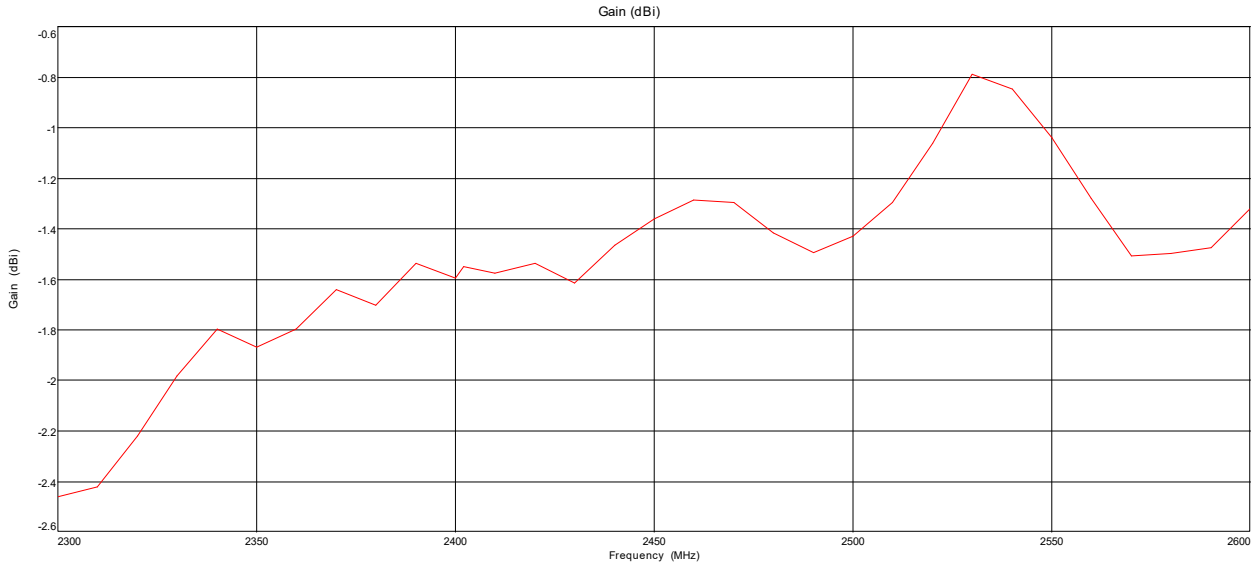
Annex A Test Setup Photos



Annex B Figures

1. 2D Radiation Pattern

Gain



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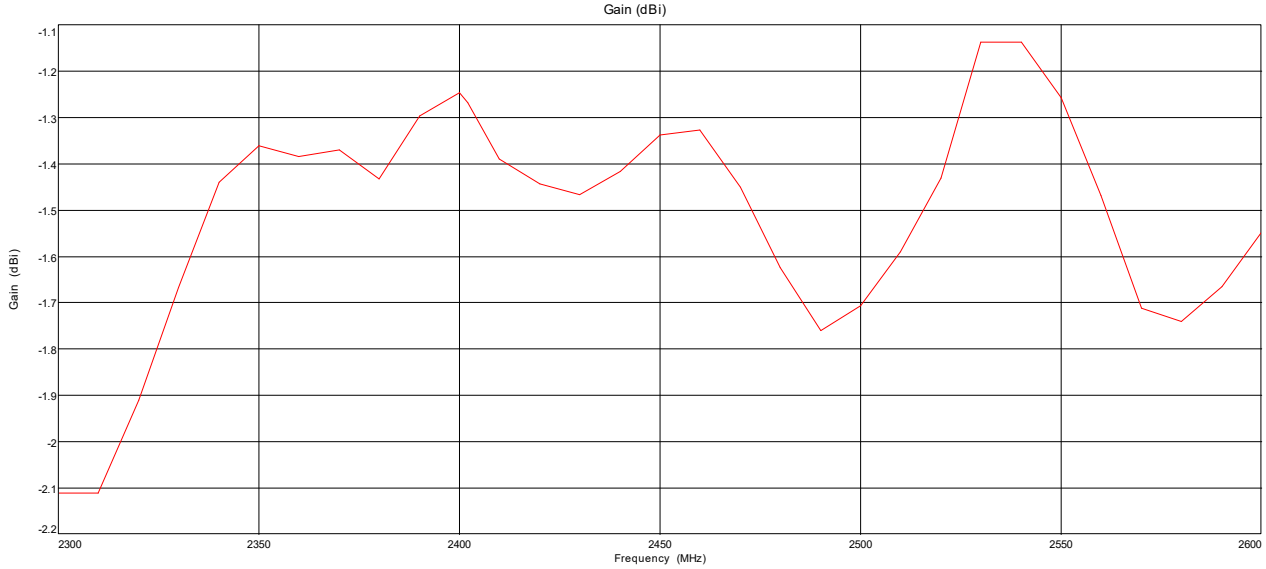
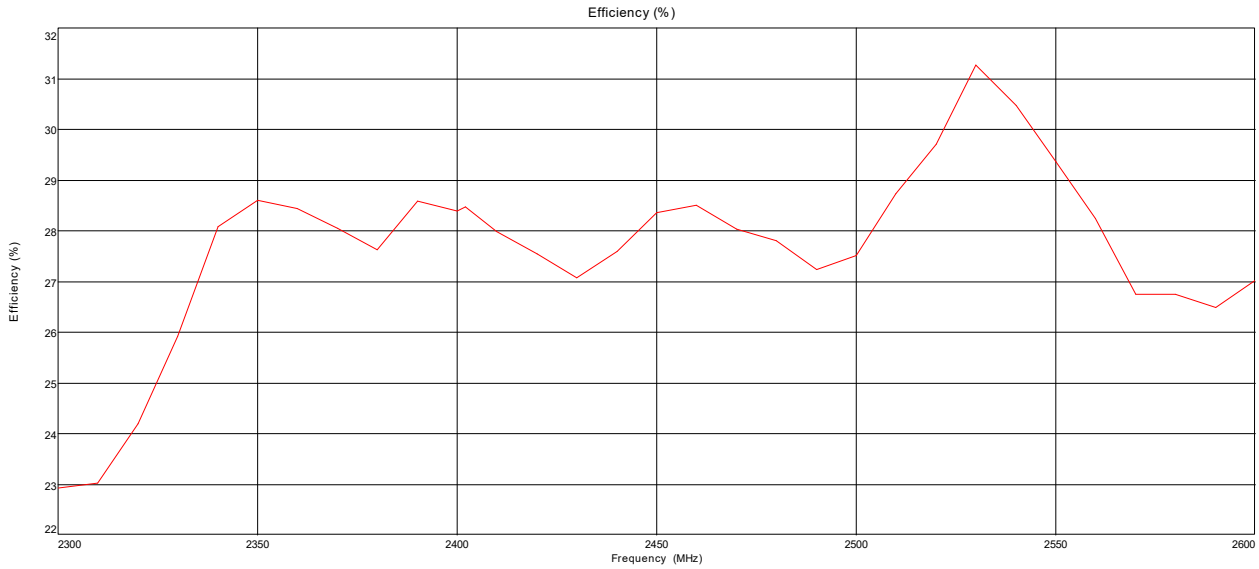


2#

Efficiency



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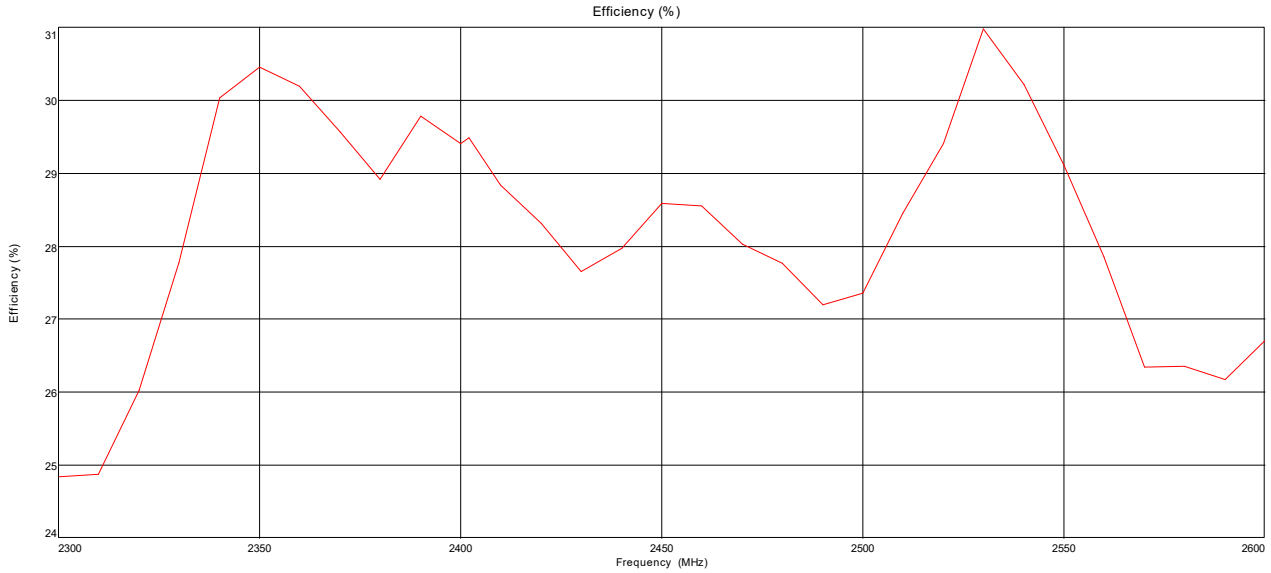

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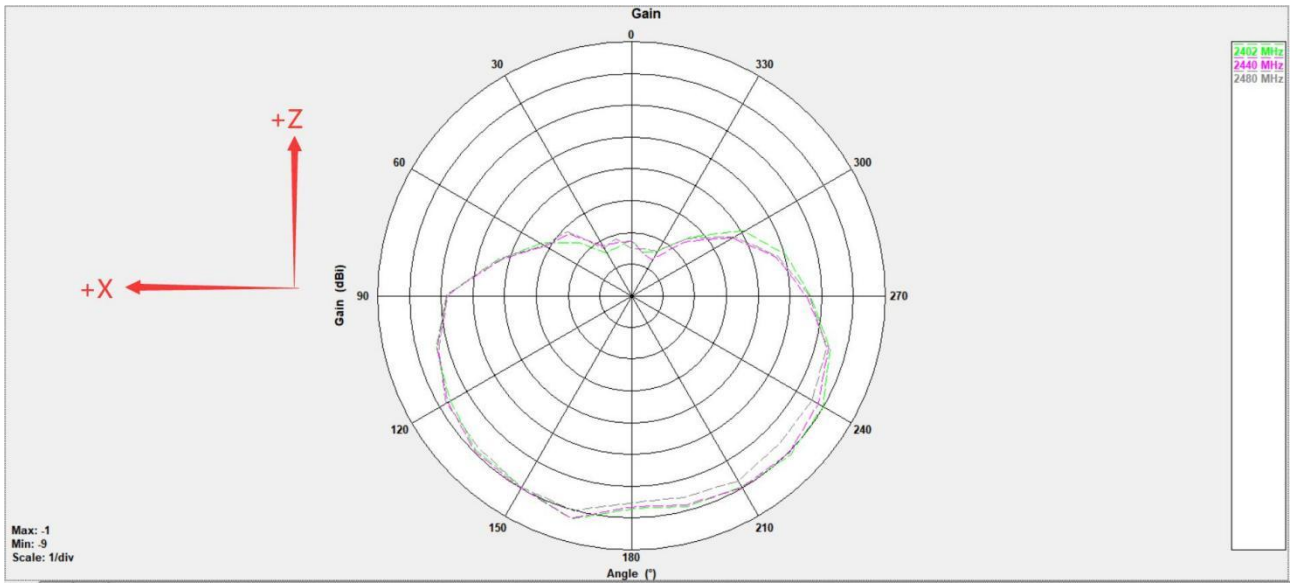
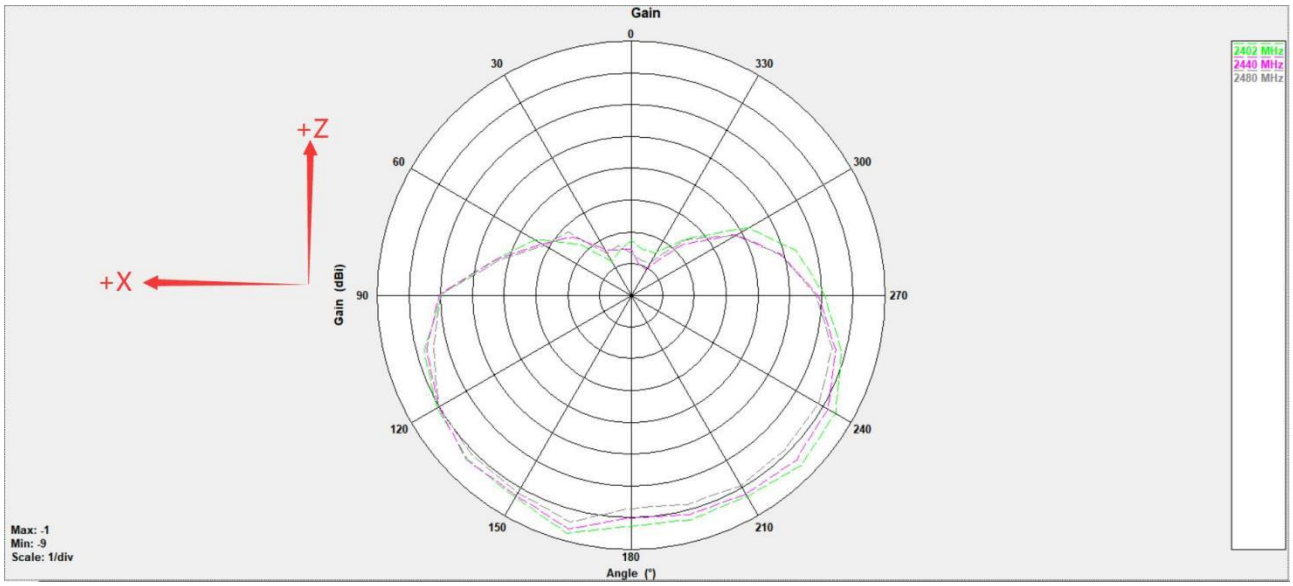
Phi=0°

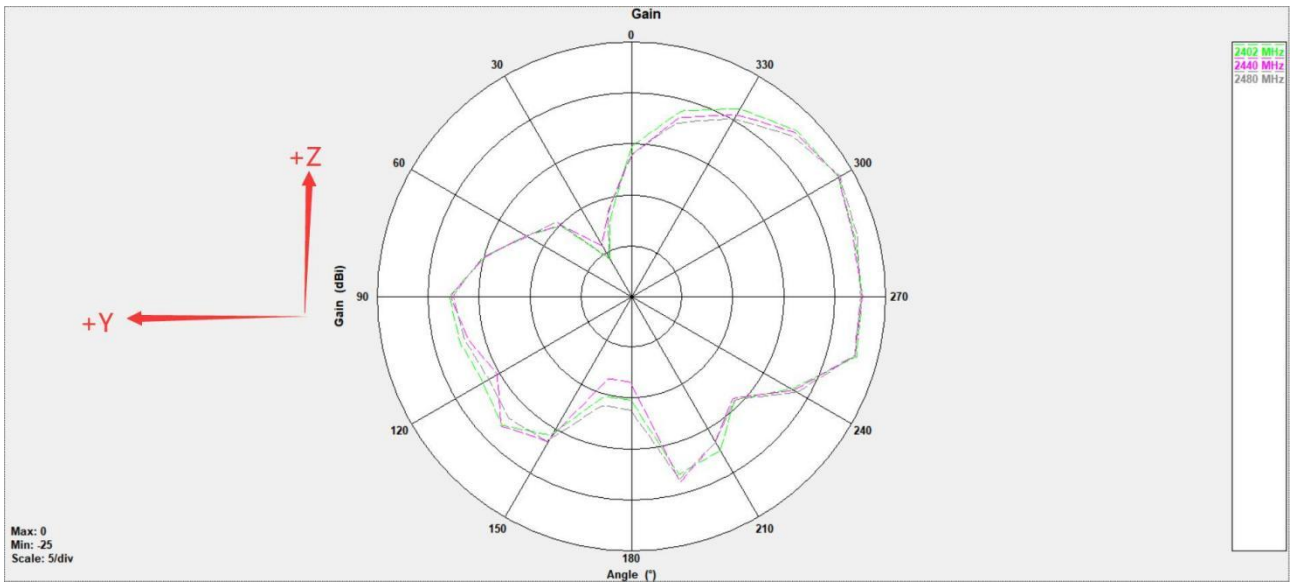

Gain
0
30
330
60
300
90
270
120
240
150
210
180
Angle (°)
Gain (dBi)
+Z
+X
2402 MHz
2440 MHz
2480 MHz
Max: -1
Min: -9
Scale: 1/div

1#

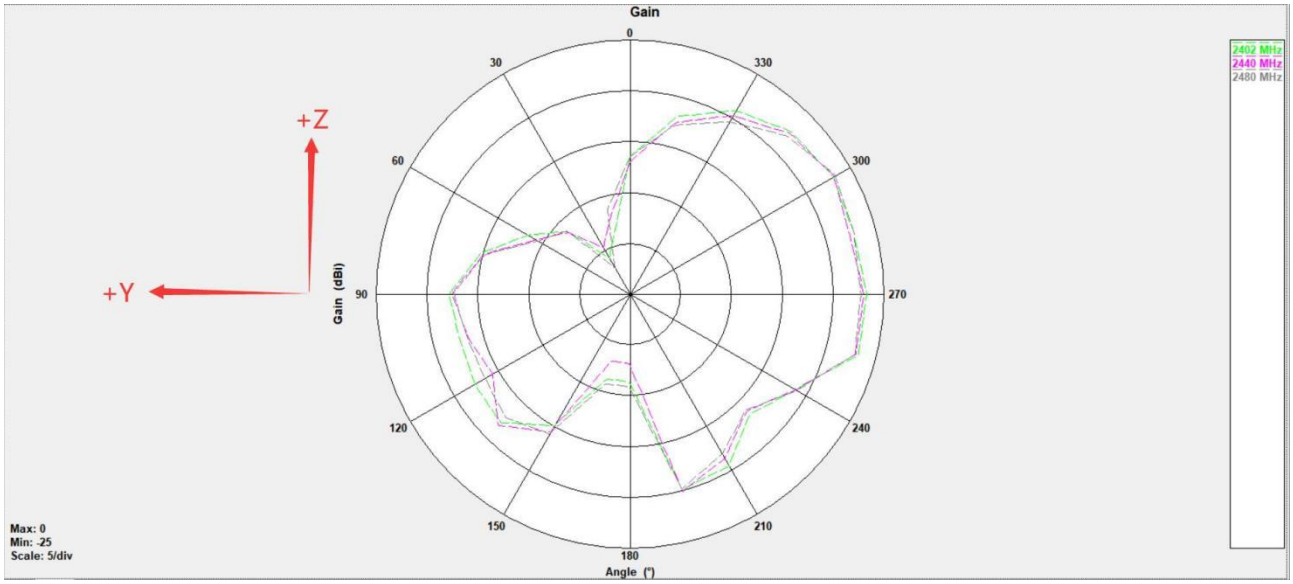

Gain
0
30
330
60
300
90
270
120
240
150
210
180
Angle (°)
Gain (dBi)
+Z
+X
2402 MHz
2440 MHz
2480 MHz
Max: -1
Min: -9
Scale: 1/div

2#

Phi=90°

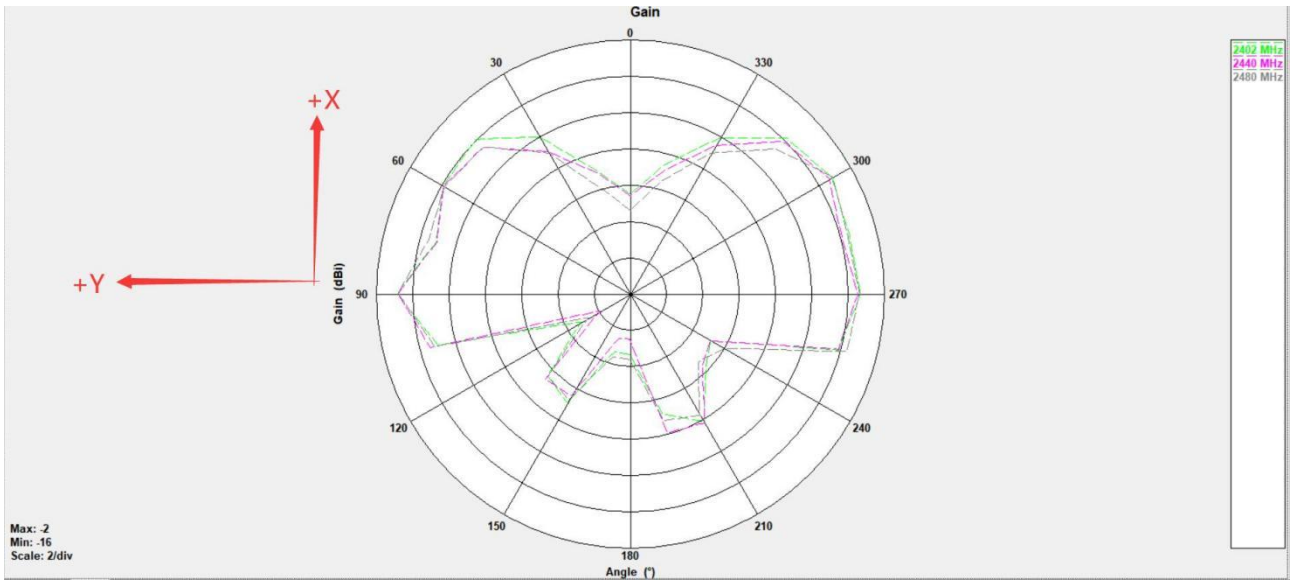

Gain
0
30
330
60
300
90
270
120
240
150
210
180
Angle (°)
Gain (dBi)
+Z
+Y
2402 MHz
2440 MHz
2480 MHz
Max: 0
Min: -25
Scale: 5/div

1#

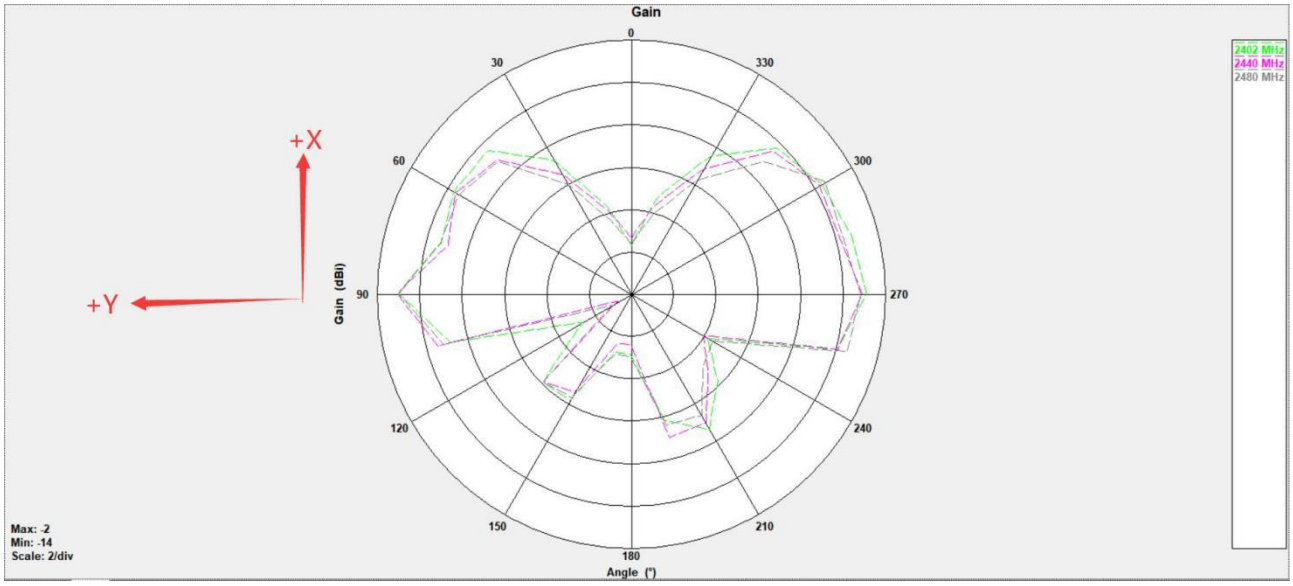

Gain
0
30
330
60
300
90
270
120
240
150
210
180
Angle (°)
Gain (dBi)
+Z
+Y
2402 MHz
2440 MHz
2480 MHz
Max: 0
Min: -25
Scale: 5/div

2#

Theta=90°

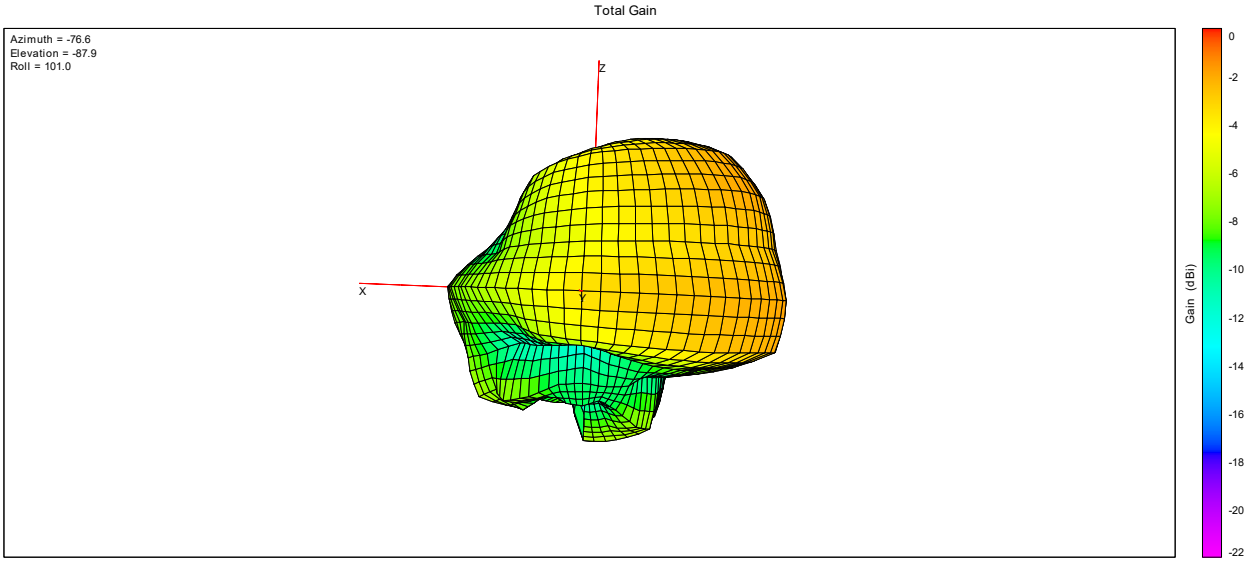

Gain
0
30
330
60
300
90
270
120
240
150
210
180
Angle (°)
Gain (dBi)
+X
+Y
2402 MHz
2440 MHz
2480 MHz
Max: -2
Min: -16
Scale: 2/div

1#

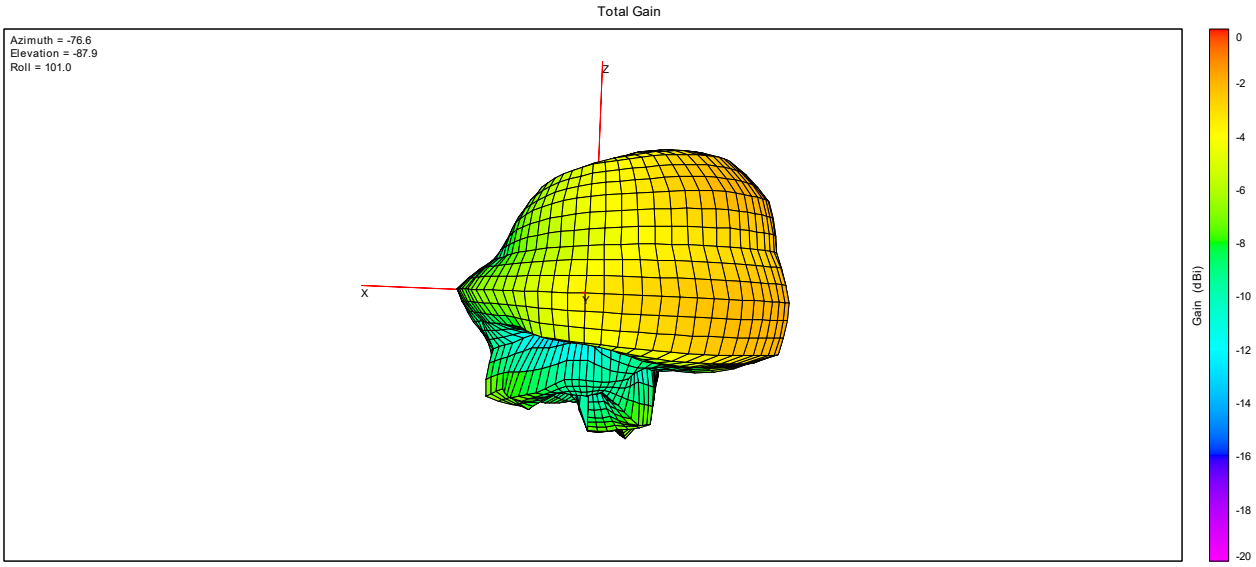

Gain
0
30
330
60
300
90
270
120
240
150
210
180
Angle (°)
Gain (dBi)
+X
+Y
2402 MHz
2440 MHz
2480 MHz
Max: -2
Min: -14
Scale: 2/div

2#

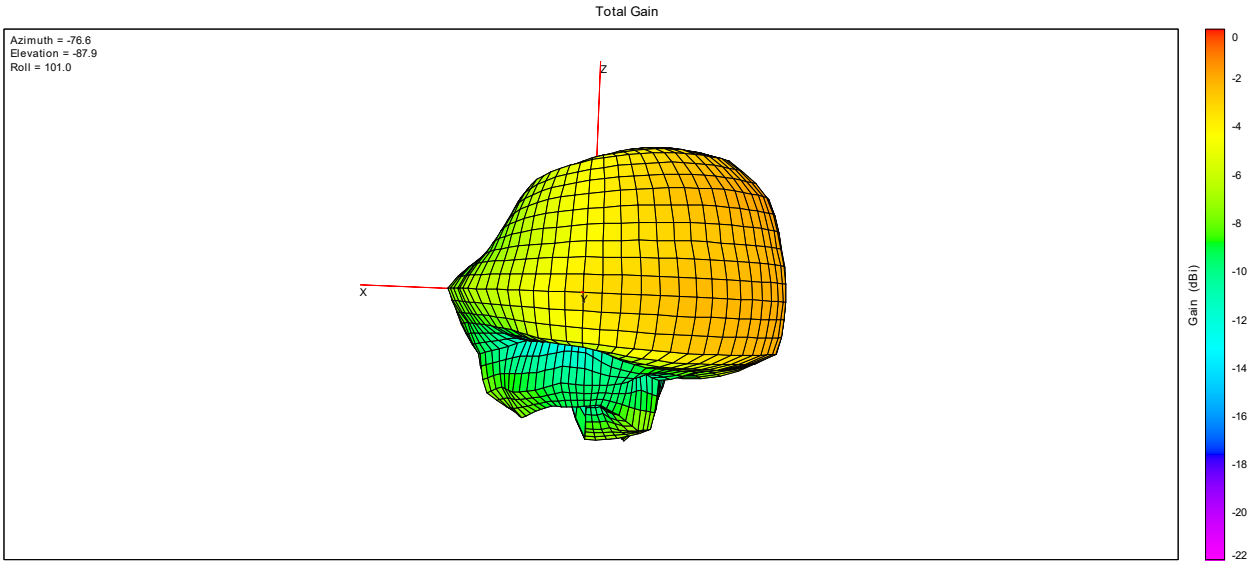
2. 3D Radiation Pattern



2402MHz_1#



2440MHz_1#



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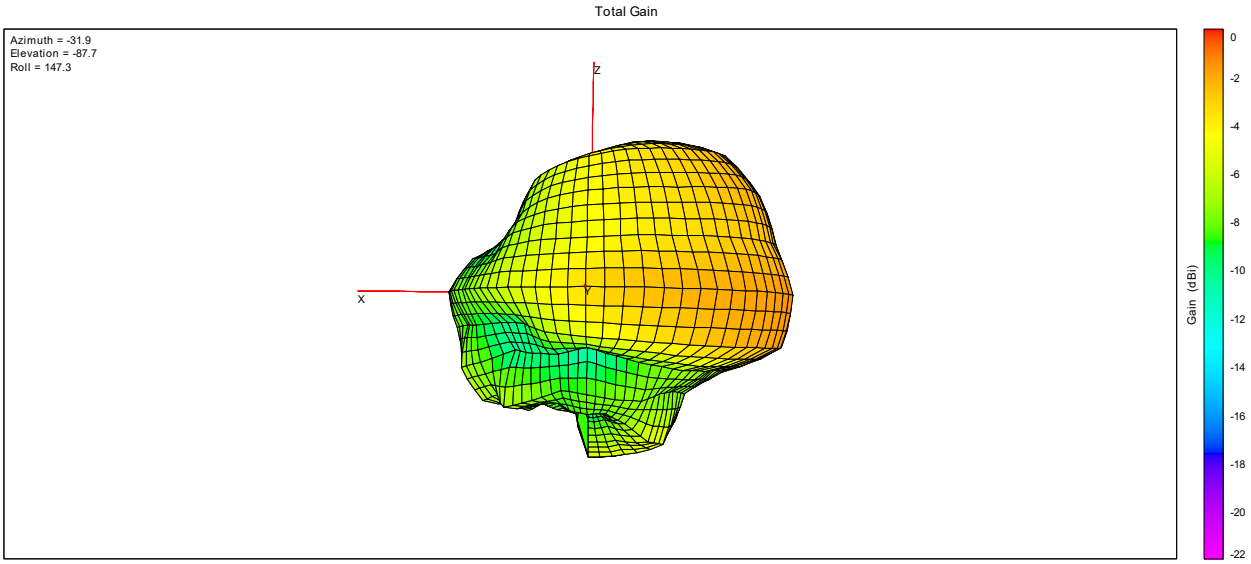

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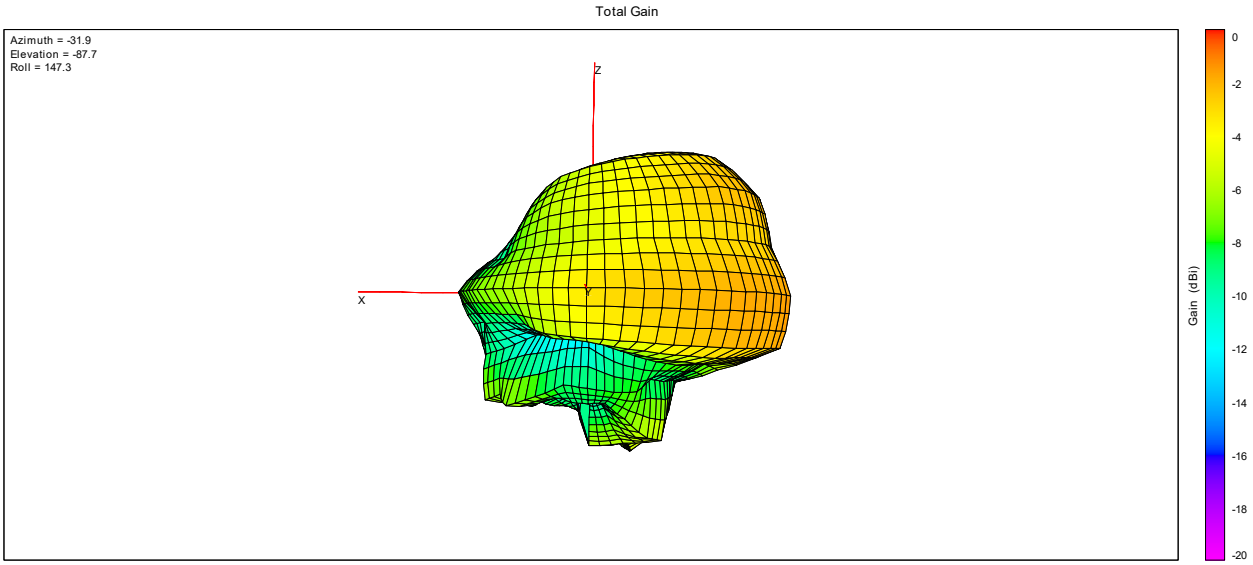

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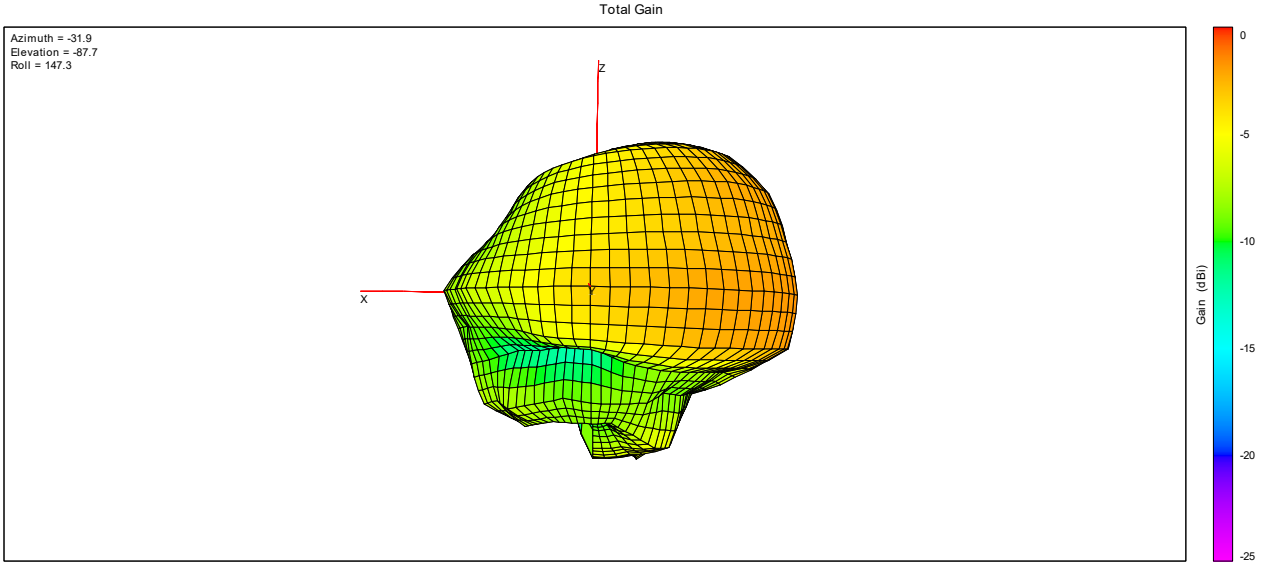
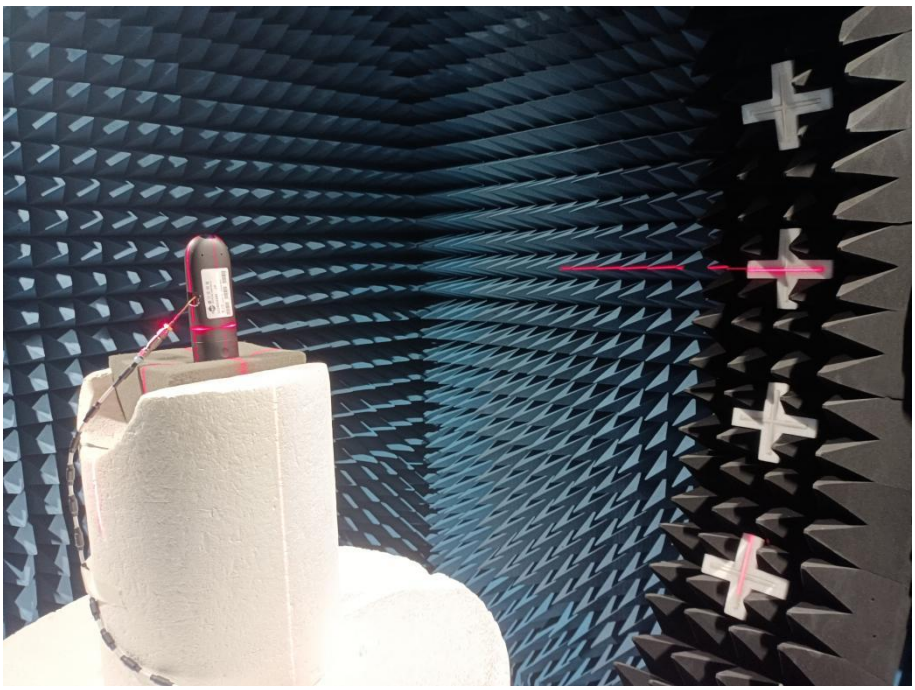
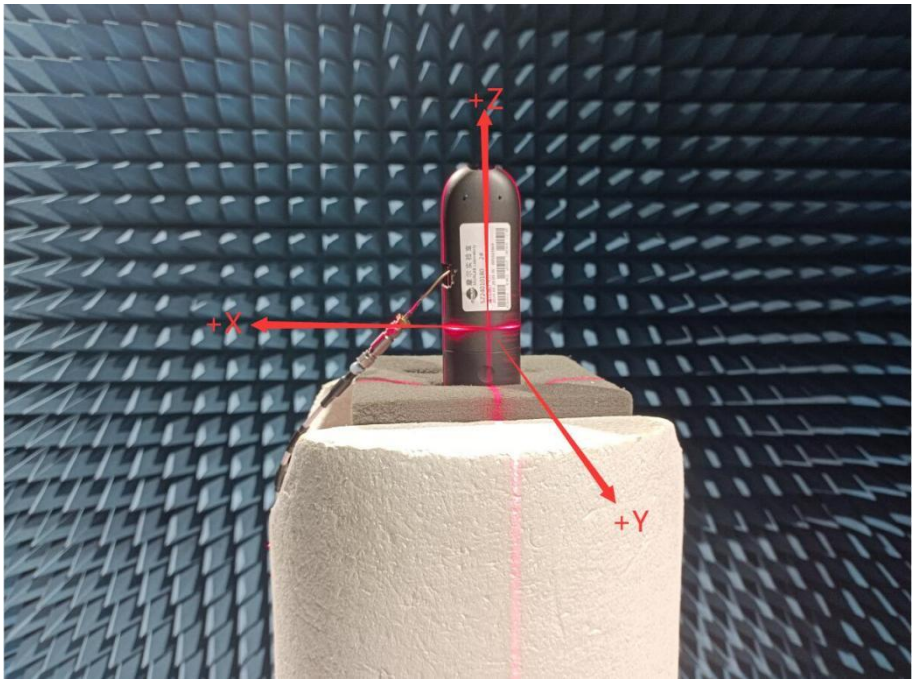


2480MHz_2#

Annex C EUT Photos

1. Test environment





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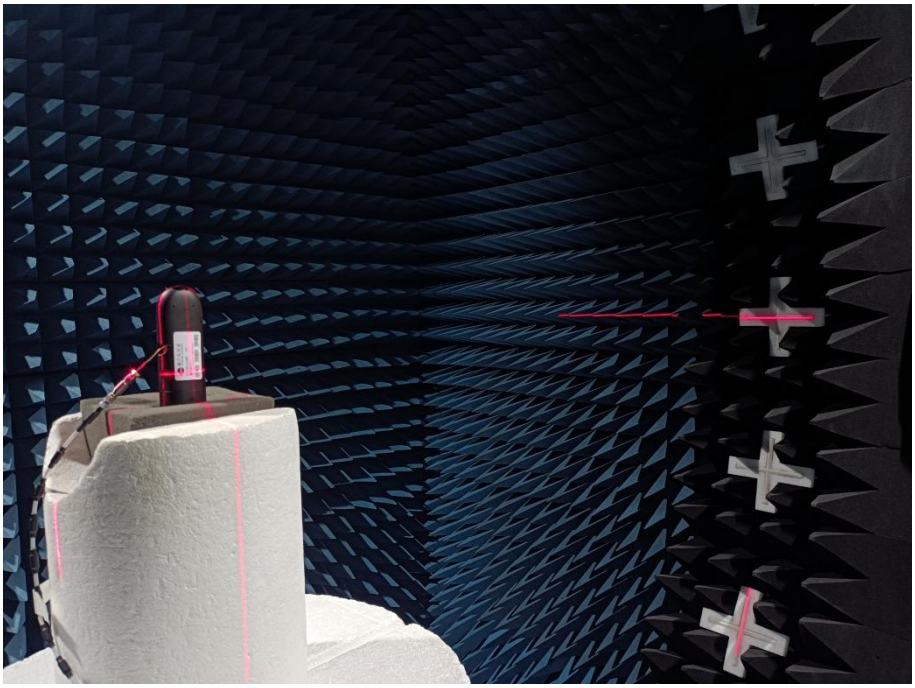
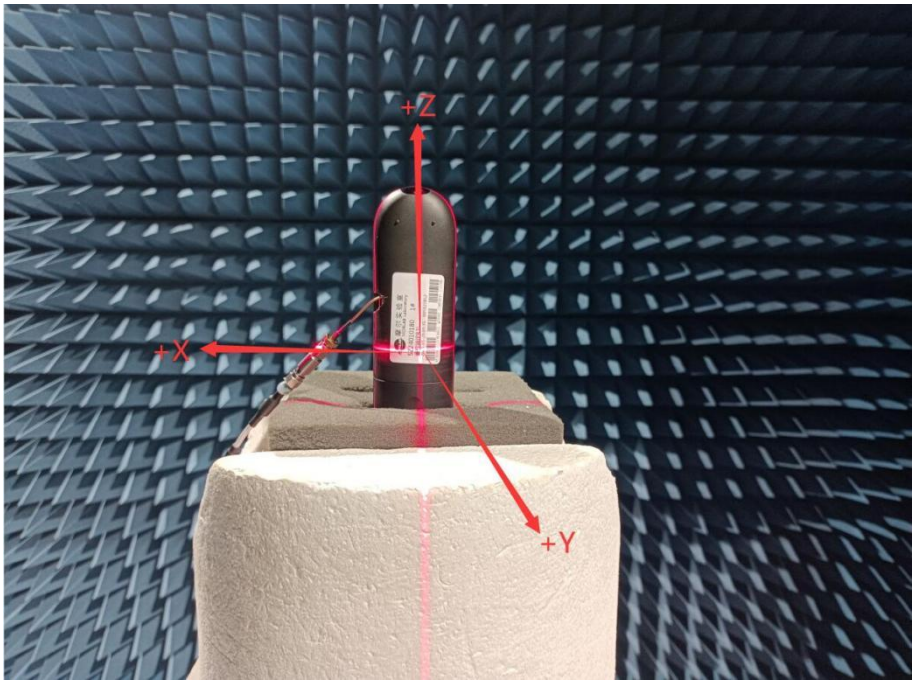
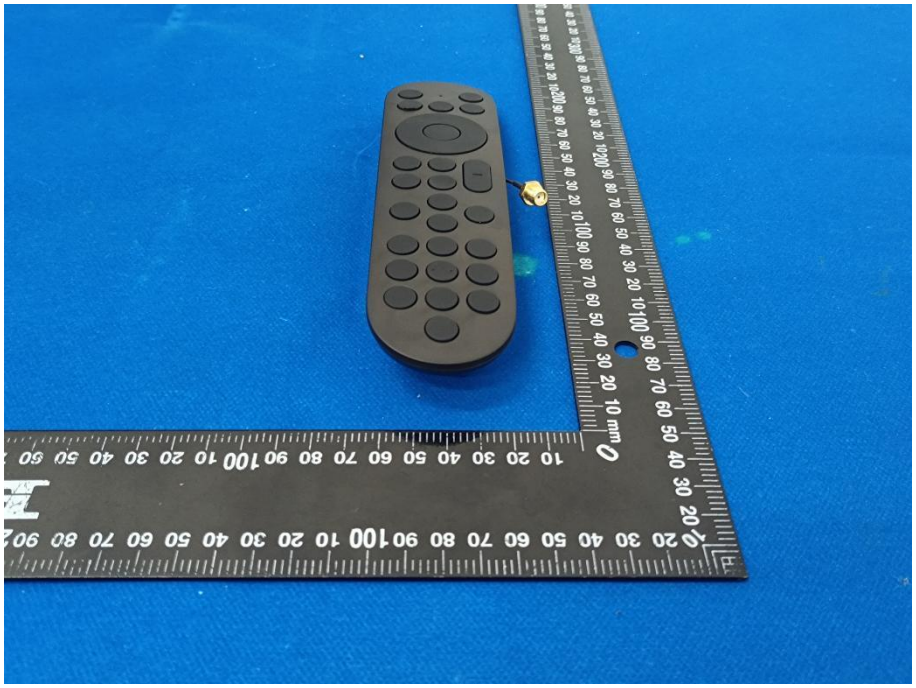
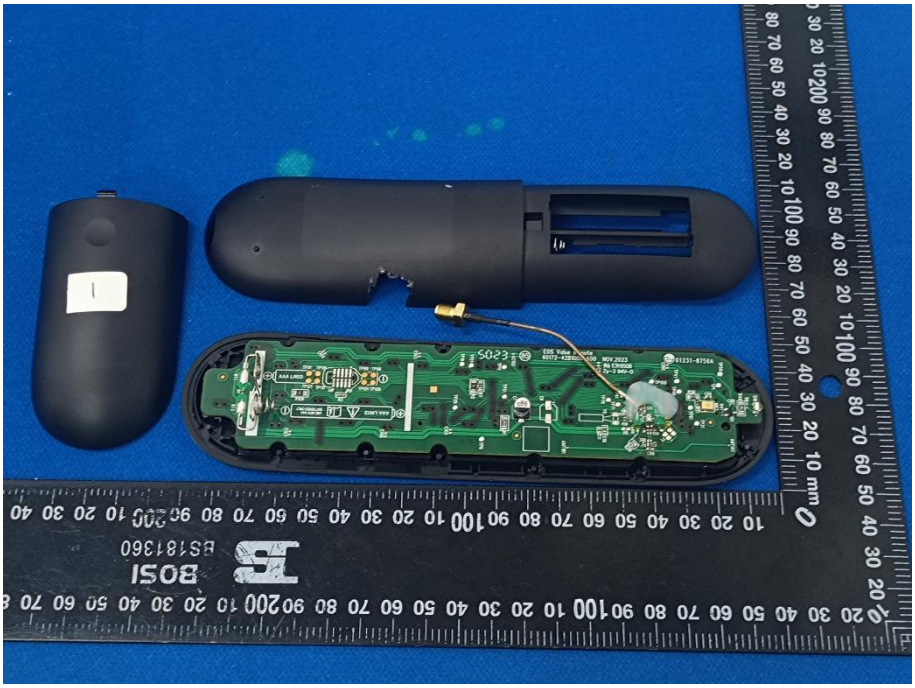


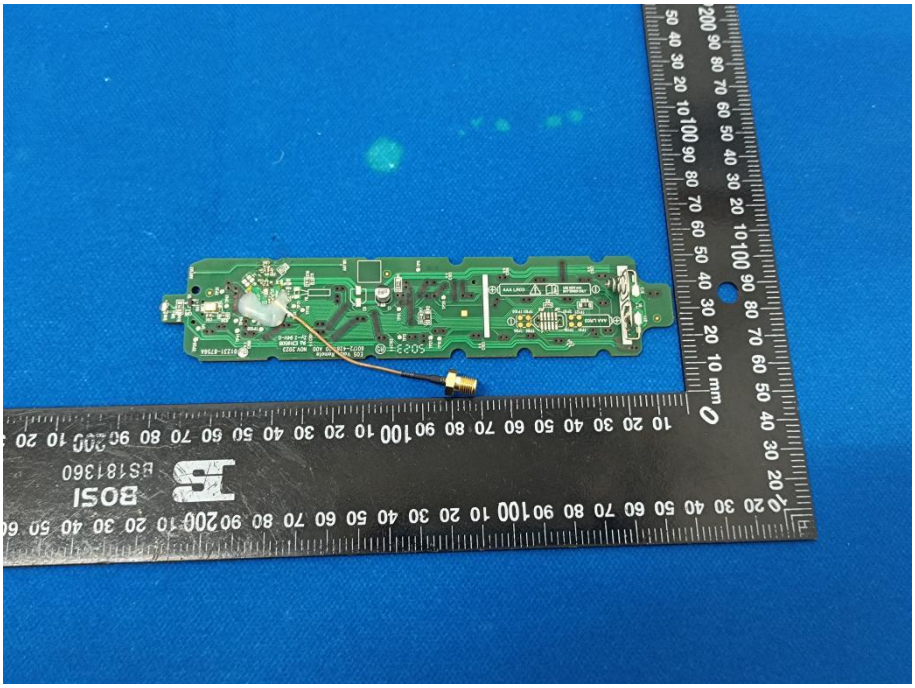


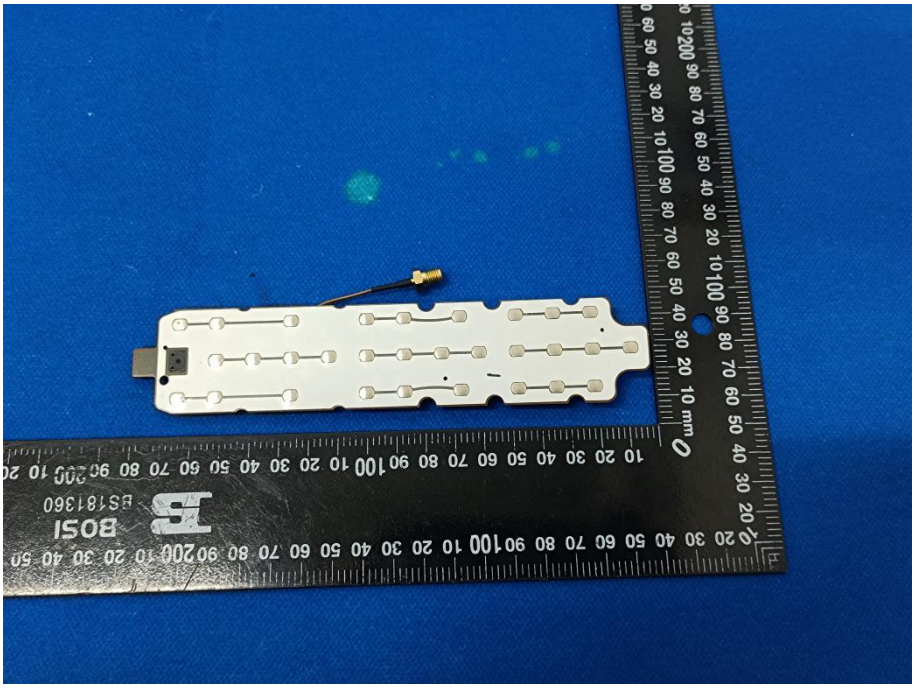
2#

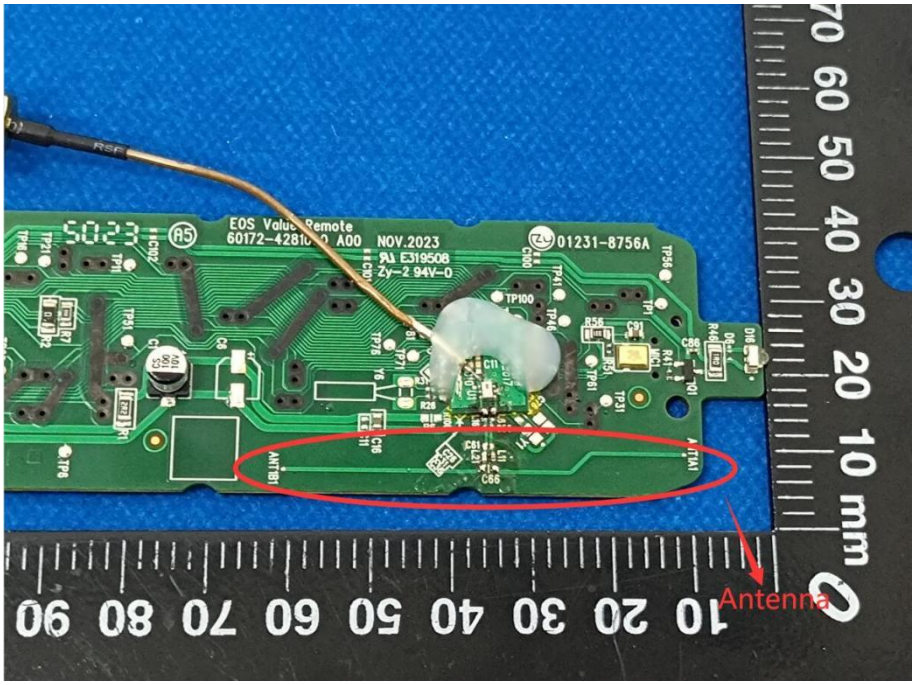
2. EUT











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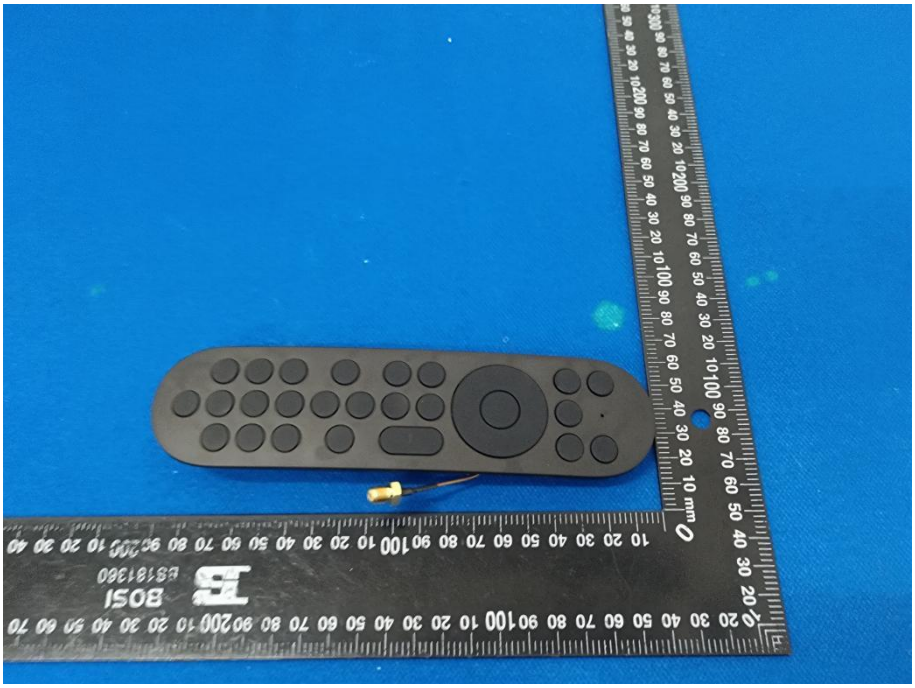

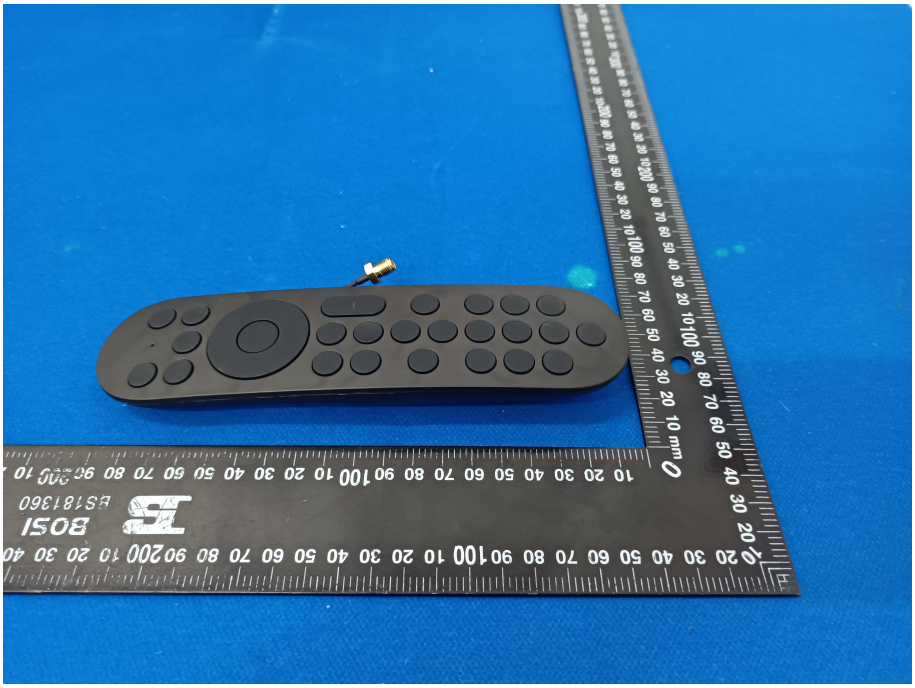

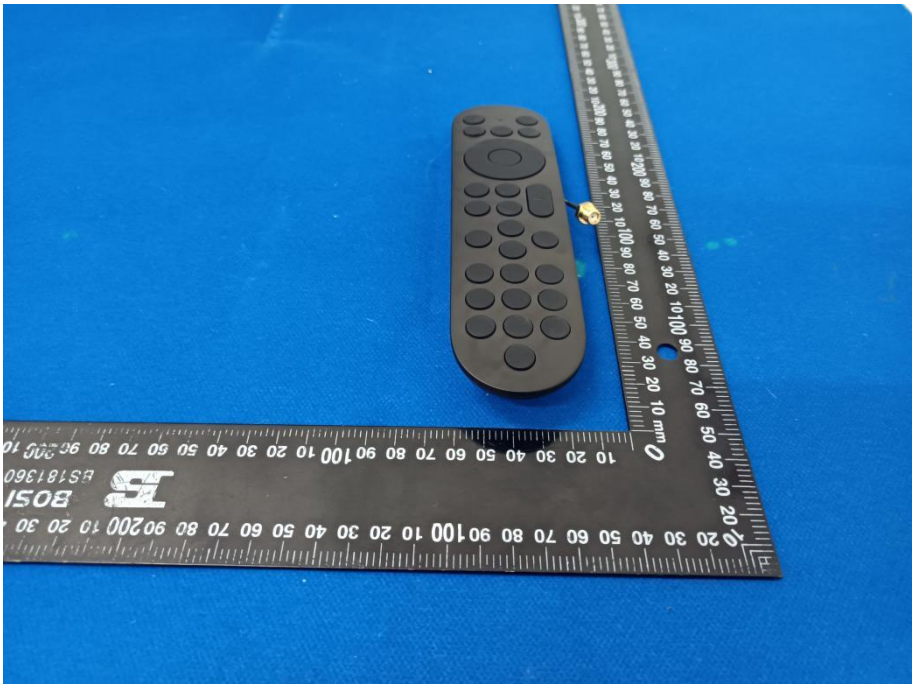

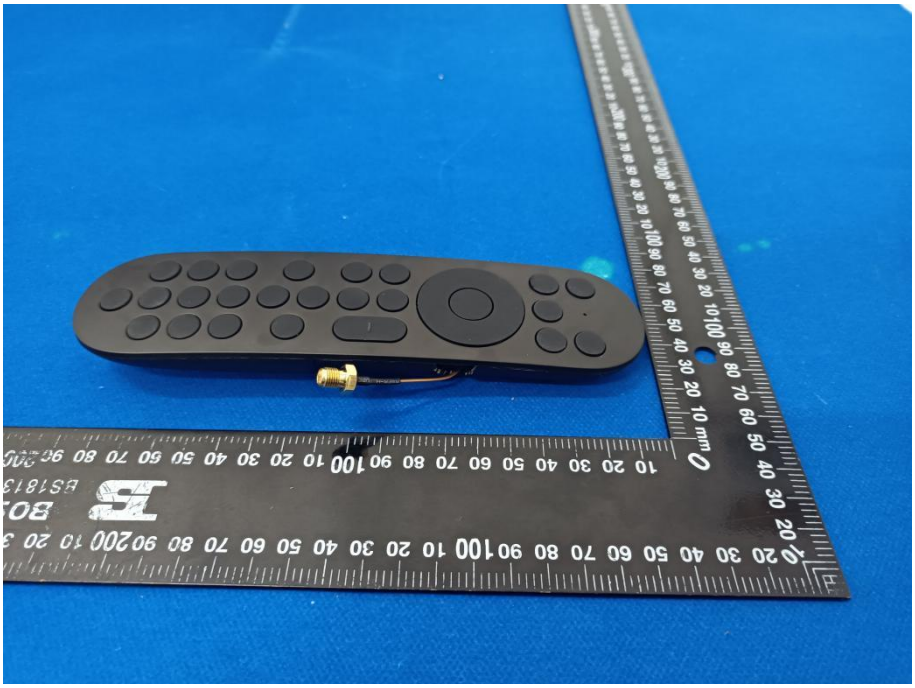

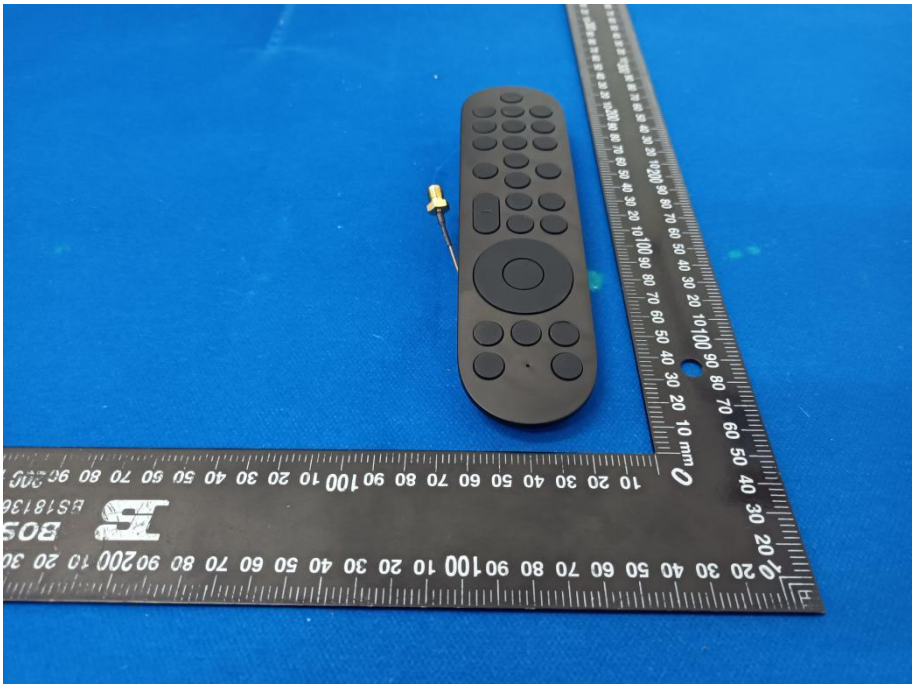

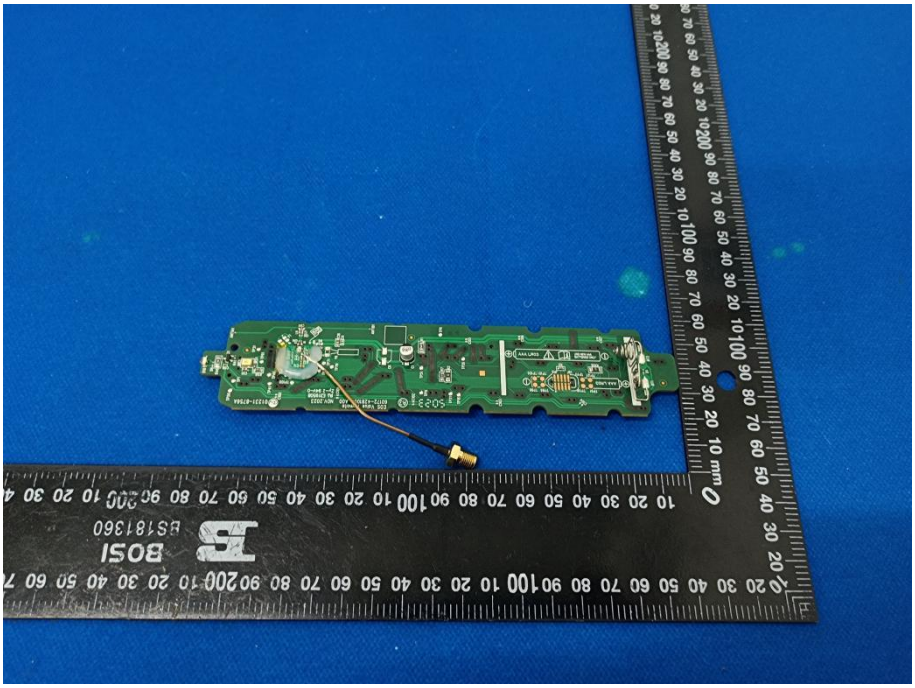

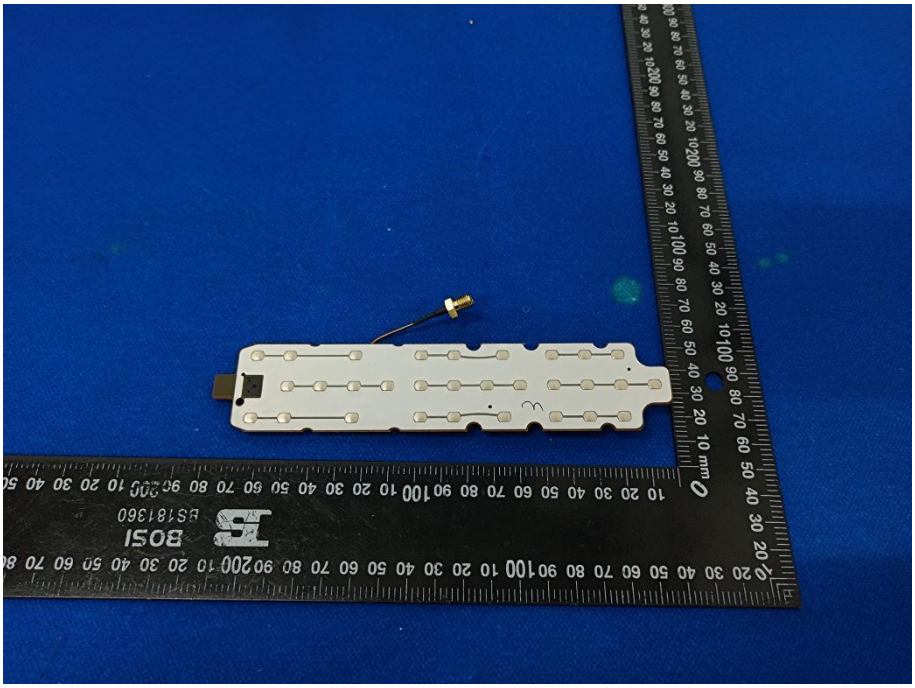

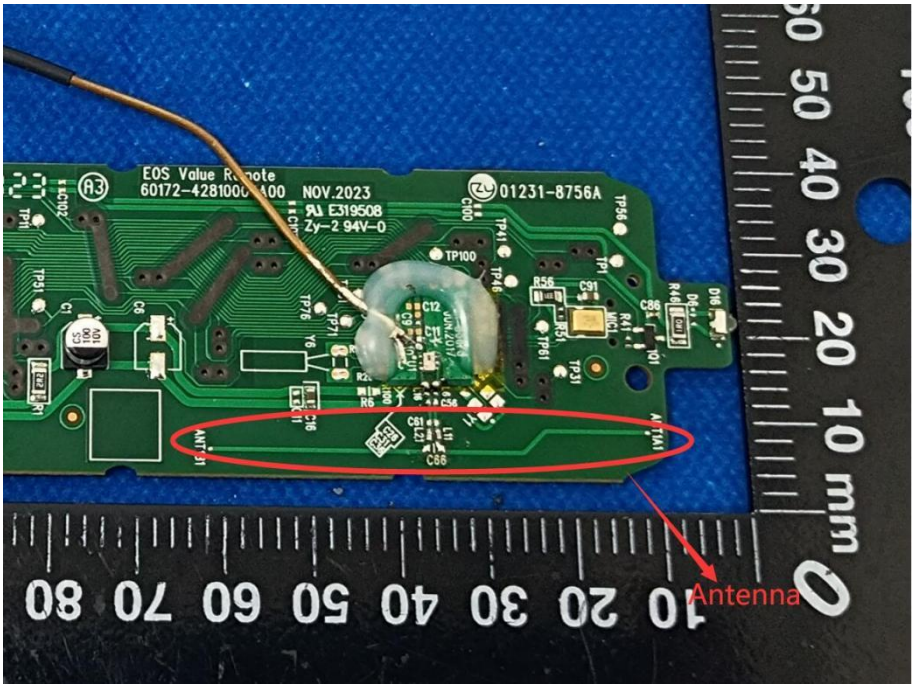

2#

Annex D General Information

1.1 Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road,Block 67, 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,Block 67, 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	2023.06.21	2024.06.20
2	OTA Chamber	TJ2235-Q1793	AMS-8923-150	ETS	2022.11.30	2025.11.29

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