



REPORT No.: SZ24090185E01

TEST REPORT

APPLICANT : Gemstar Technology(Yangzhou) Co.Ltd

PRODUCT NAME : Remote control

MODEL NAME : BV EE Apple MVPD Remote 2.0

TRADE NAME : N/A

BRAND NAME : N/A

STANDARD(S) : IEEE Std 149-2021

RECEIPT DATE : 2024-09-14

TEST DATE : 2024-09-18

ISSUE DATE : 2024-09-23



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Chi Shide

Chi Shide(Supervisor)

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MORLAB

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Change History		
Version	Date	Reason for change
1.0	2024-09-23	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	2402MHz-2480MHz
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.

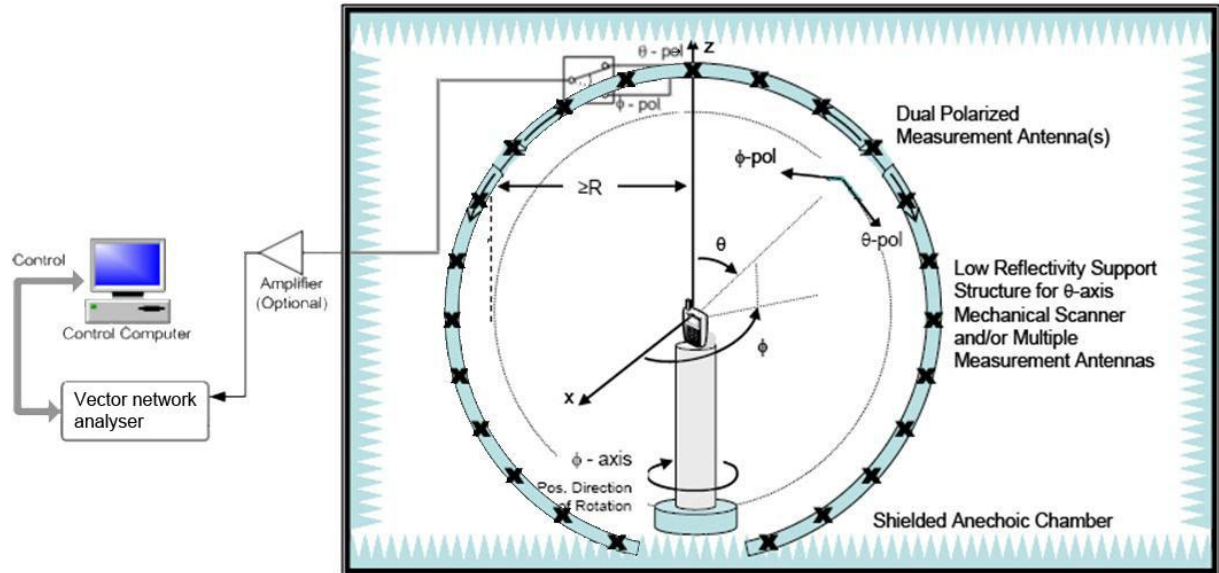


2.4. Test Results lists

2.4.1. Gain and Efficiency

Frequency (MHz)	Gain(dBi)		Efficiency(%)		Efficiency(dB)	
	1#	2#	1#	2#	1#	2#
2400	0.82	1.27	64.69	65.83	-1.89	-1.82
2402	0.96	1.39	65.04	66.21	-1.87	-1.79
2410	1.04	1.39	64.60	65.84	-1.90	-1.82
2420	1.12	1.36	63.75	64.96	-1.96	-1.87
2430	1.14	1.43	62.53	63.64	-2.04	-1.96
2440	1.13	1.55	63.34	64.24	-1.98	-1.92
2450	1.26	1.73	64.91	65.63	-1.88	-1.83
2460	1.32	1.68	65.36	65.73	-1.85	-1.82
2470	1.30	1.37	64.17	64.25	-1.93	-1.92
2480	1.07	0.86	63.28	63.01	-1.99	-2.01
2490	0.66	0.14	61.71	61.18	-2.10	-2.13
2500	0.37	0.04	62.06	61.17	-2.07	-2.13

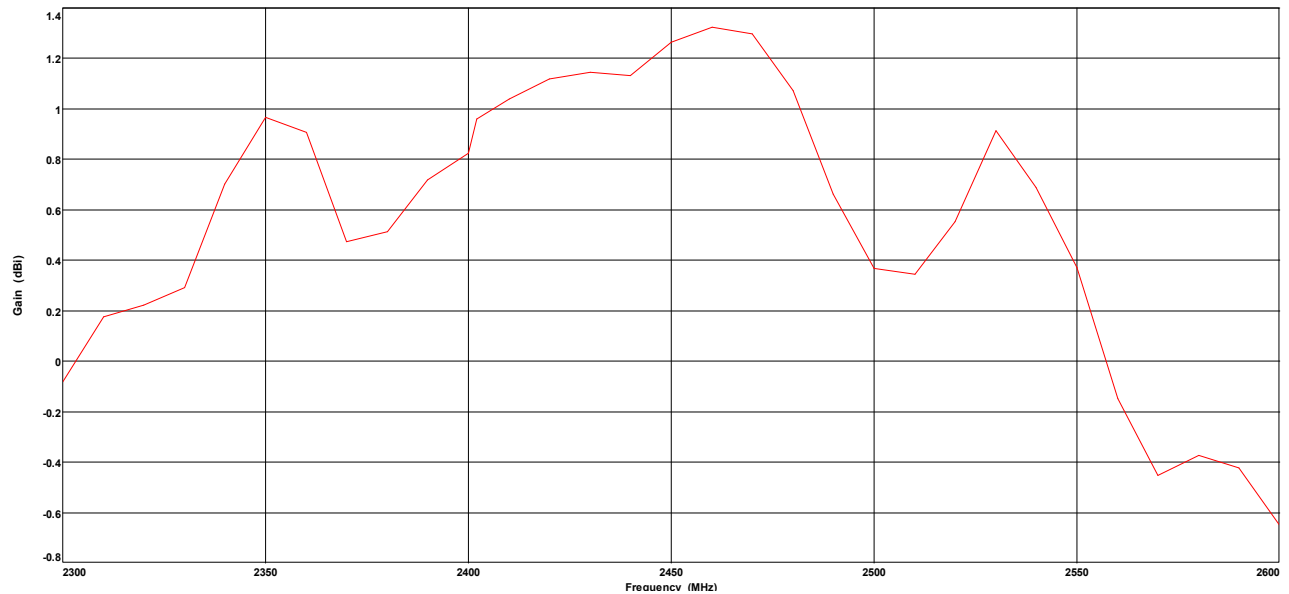
Annex A Test Setup Photos



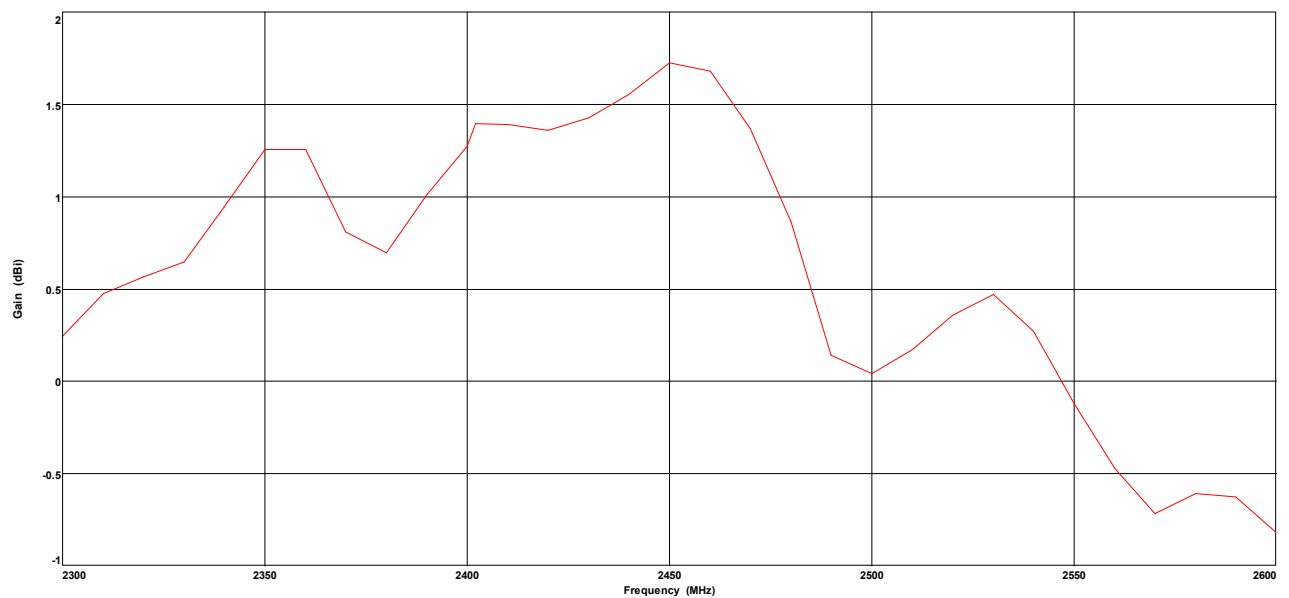
Annex B Figures

1. 2D Radiation Pattern

Gain



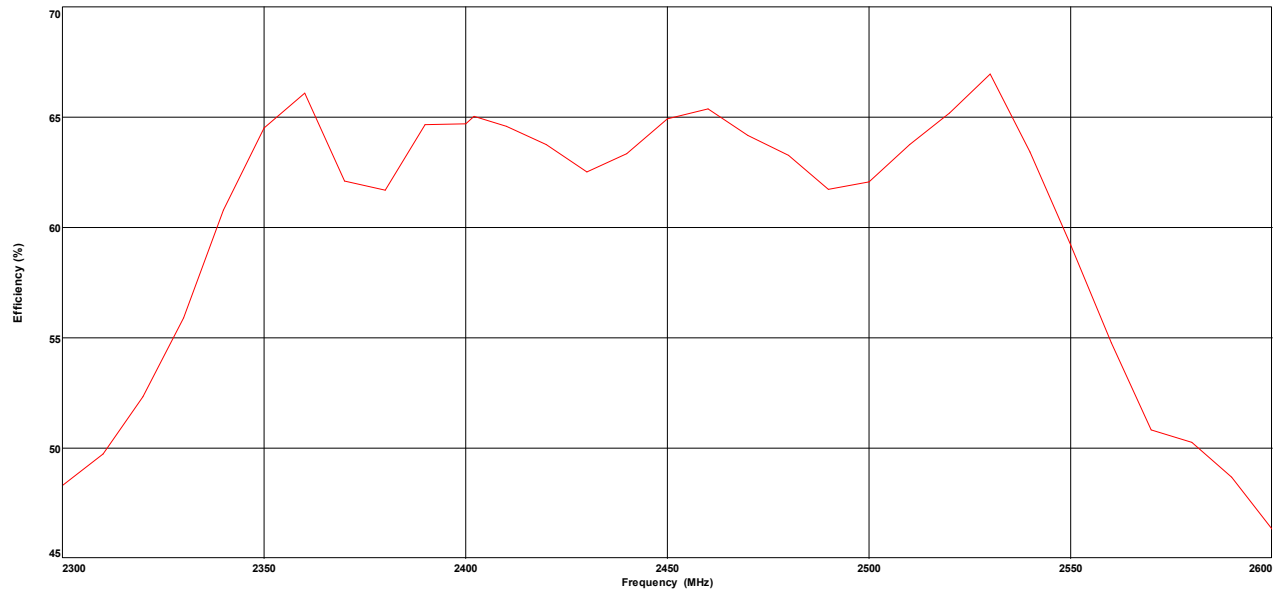
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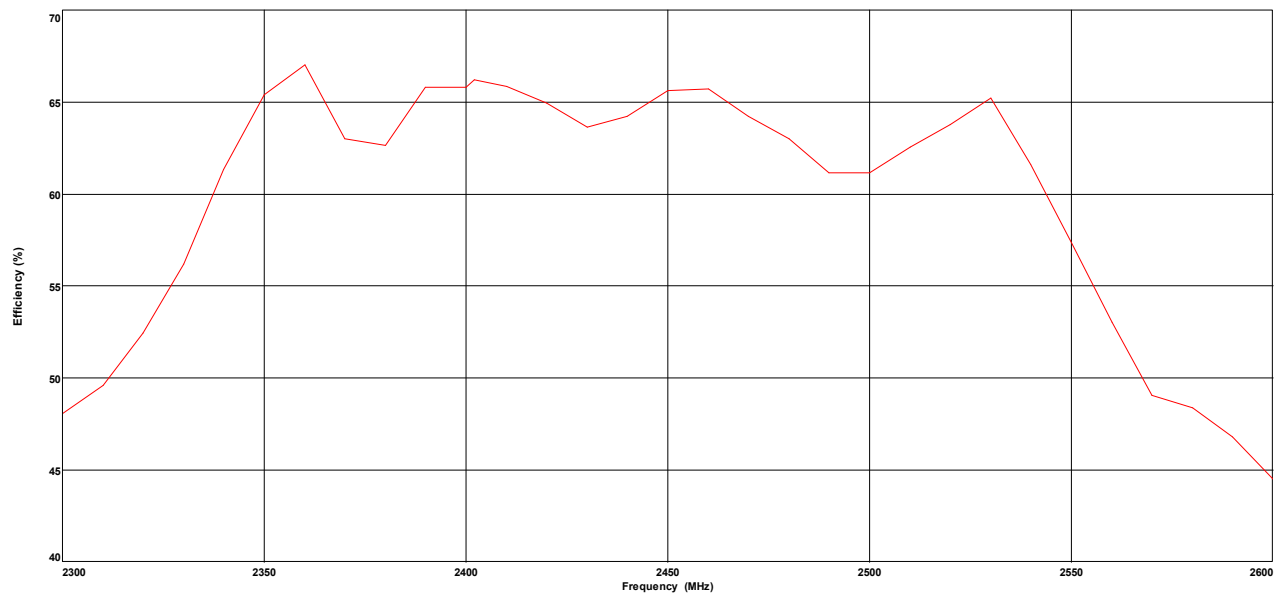
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Efficiency



1#

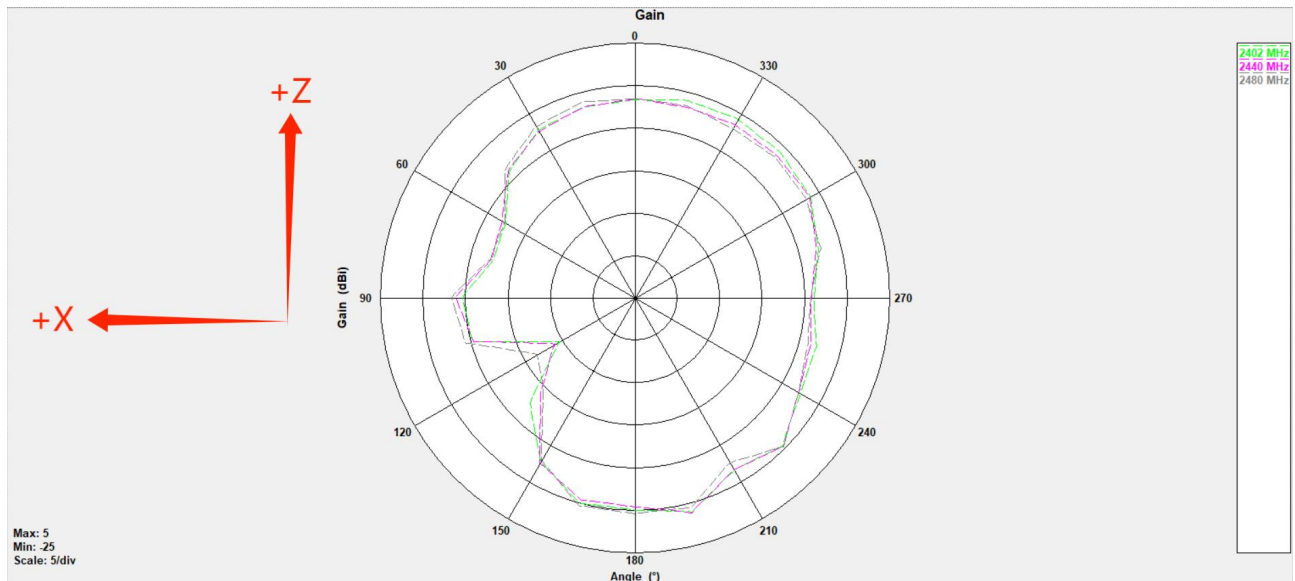


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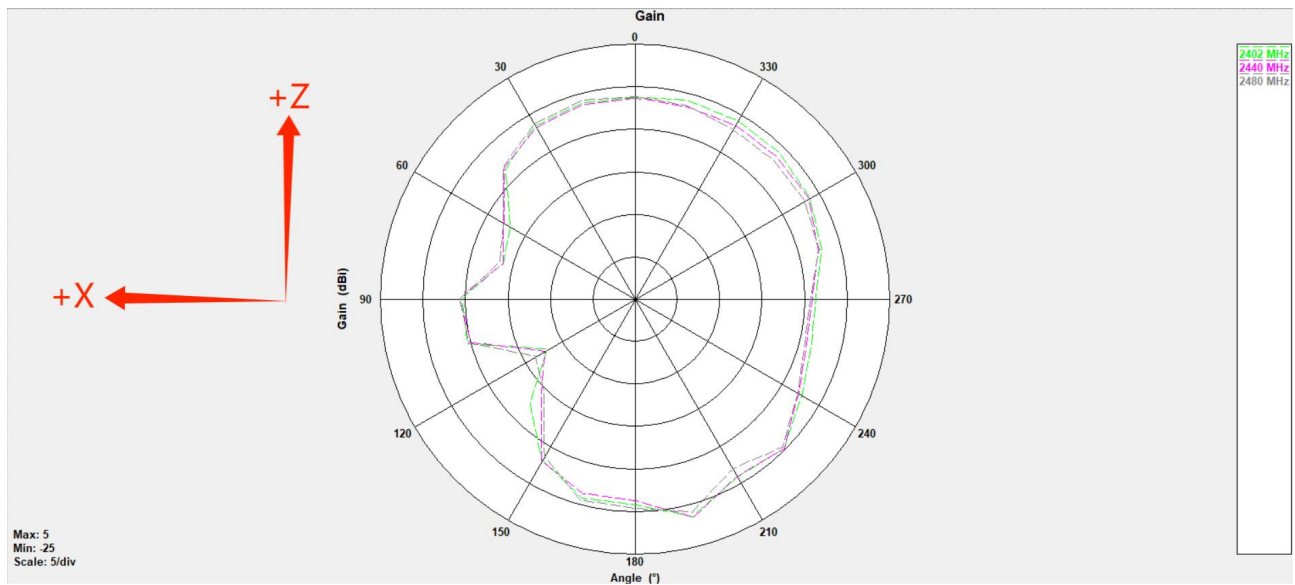


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Phi=0°



1#

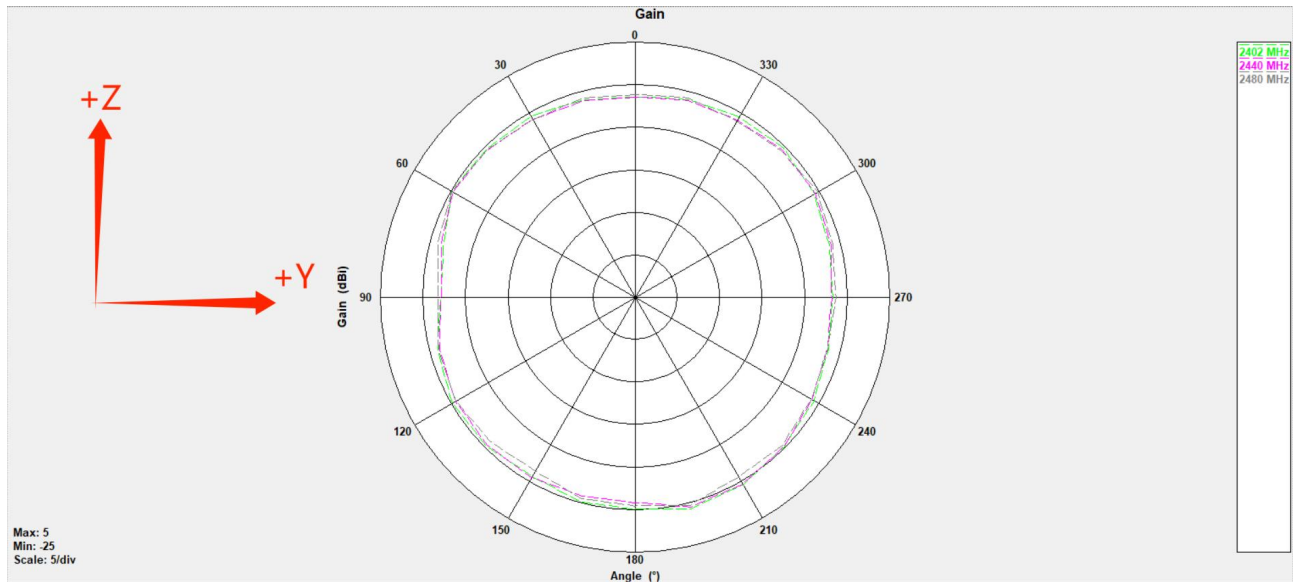


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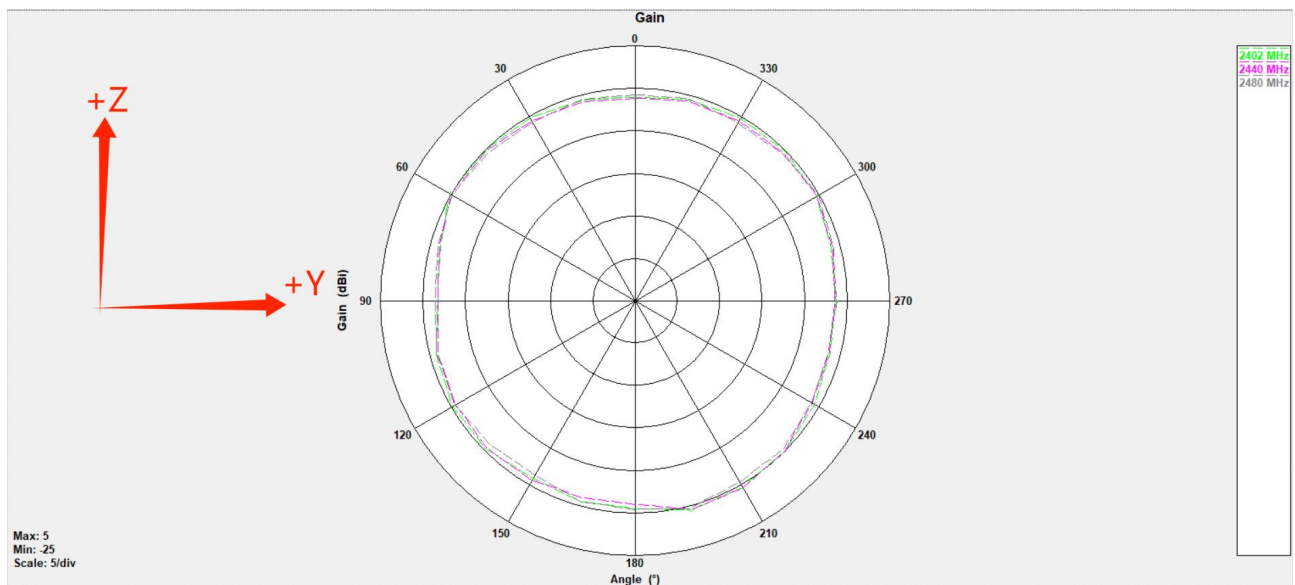


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Phi=90°



1#

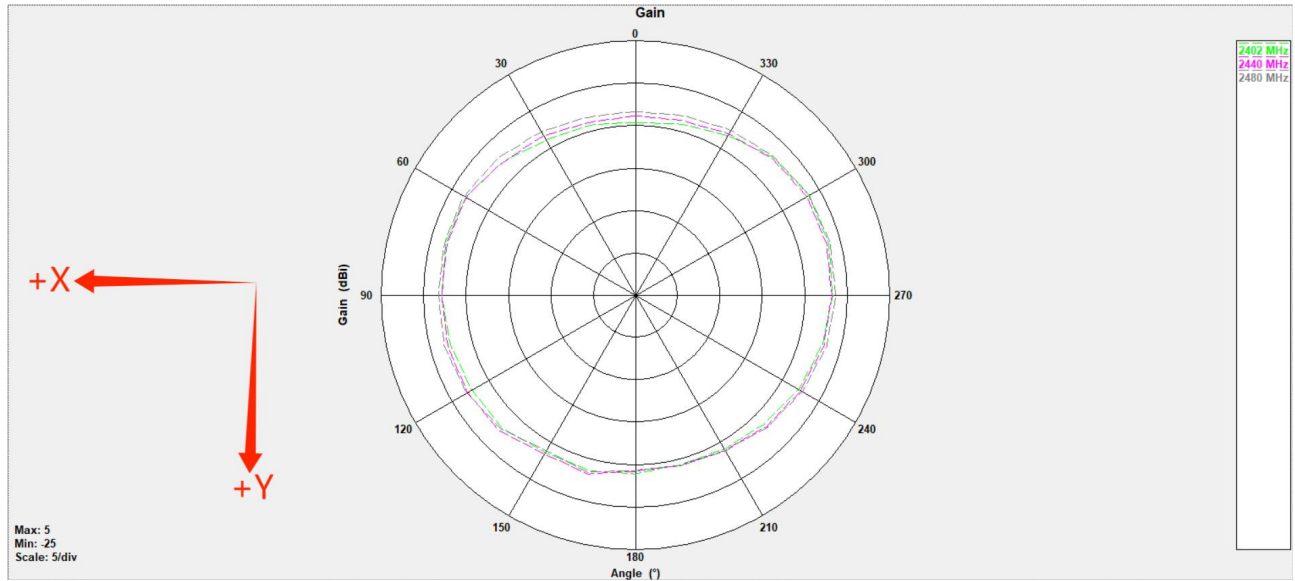


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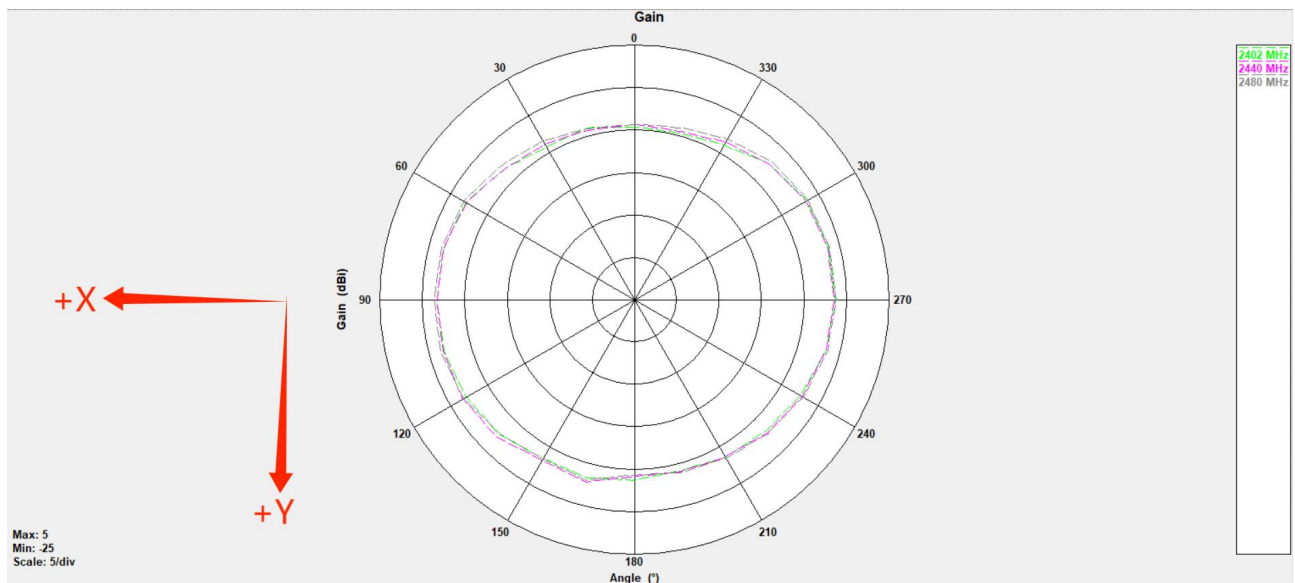


REPORT No.: SZ24090185E01

Theta=90°

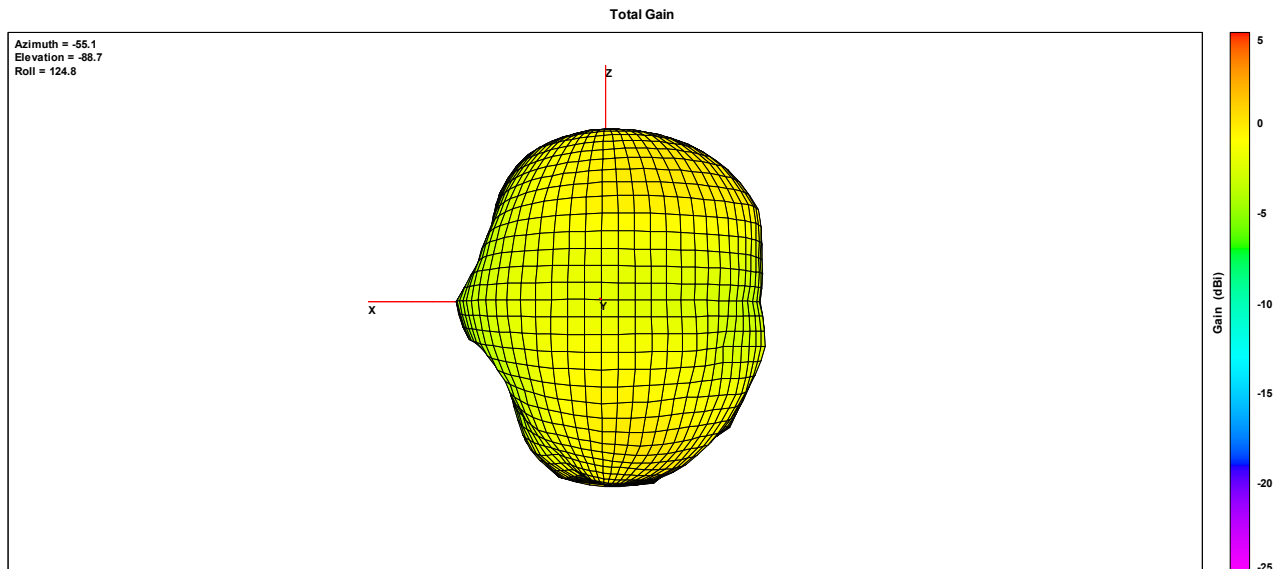


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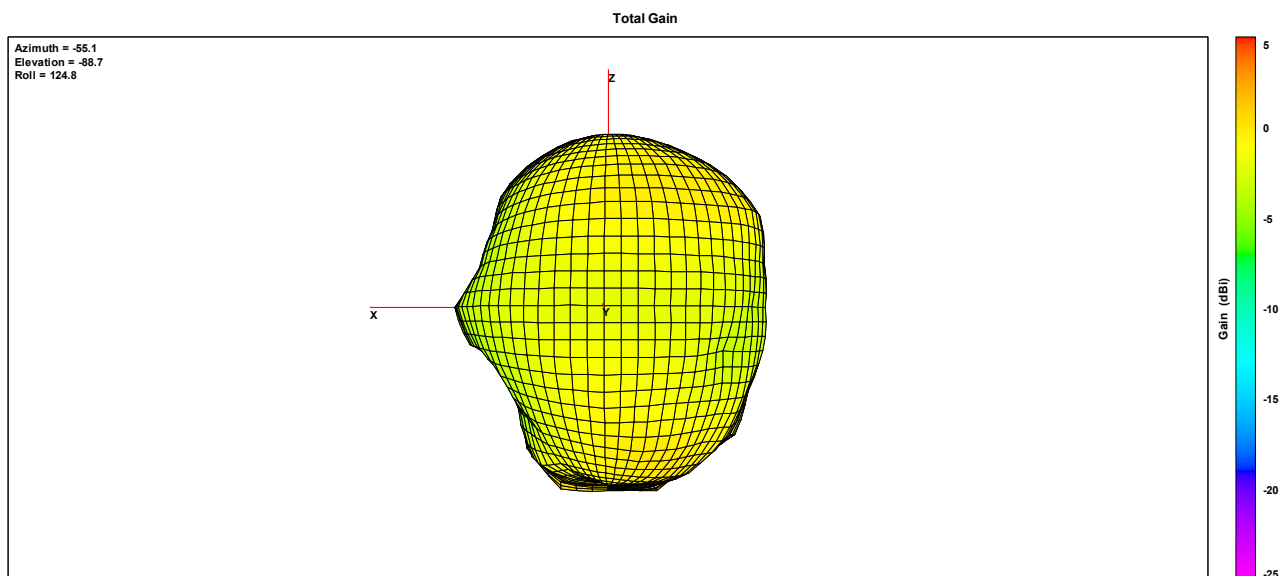


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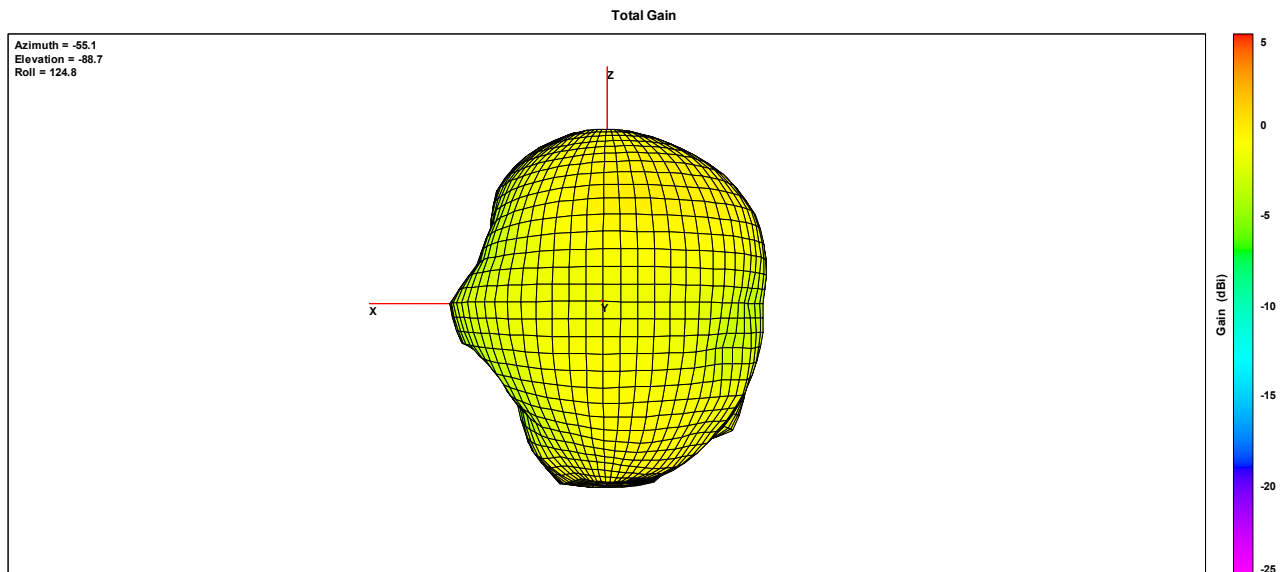
2. 3D Radiation Pattern



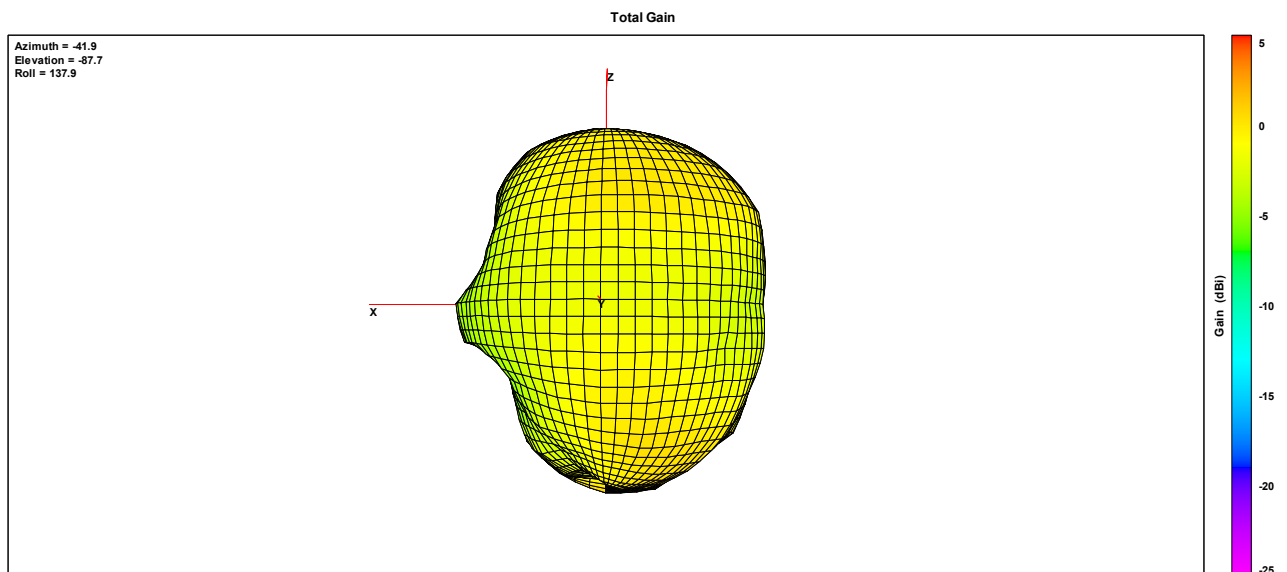
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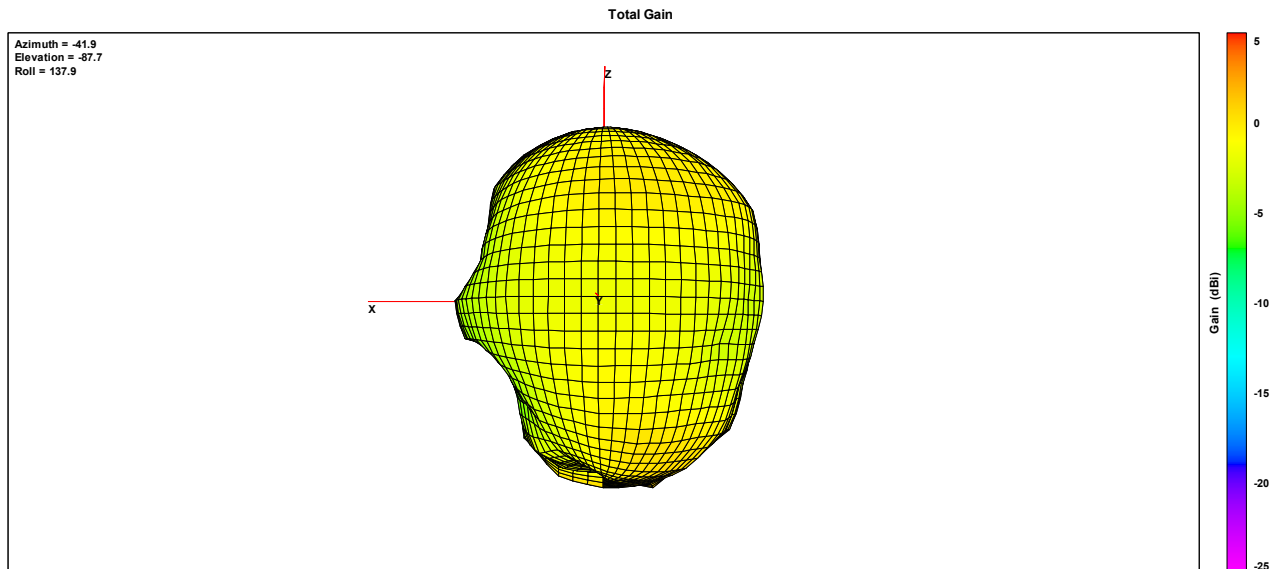
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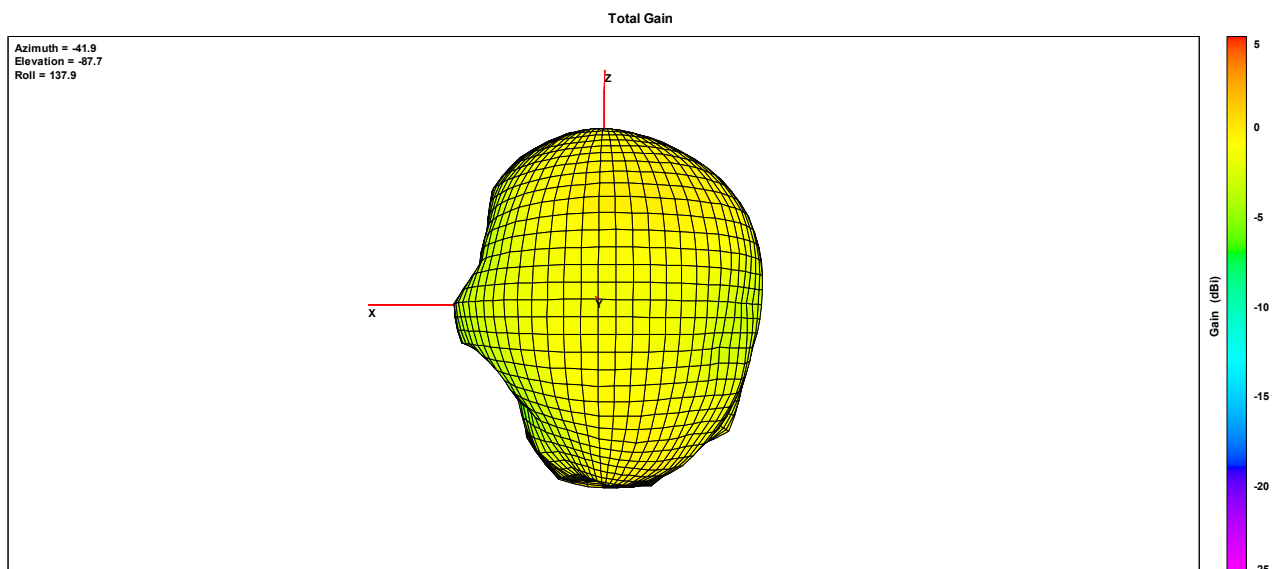
2480MHz_1#



2402MHz_2#



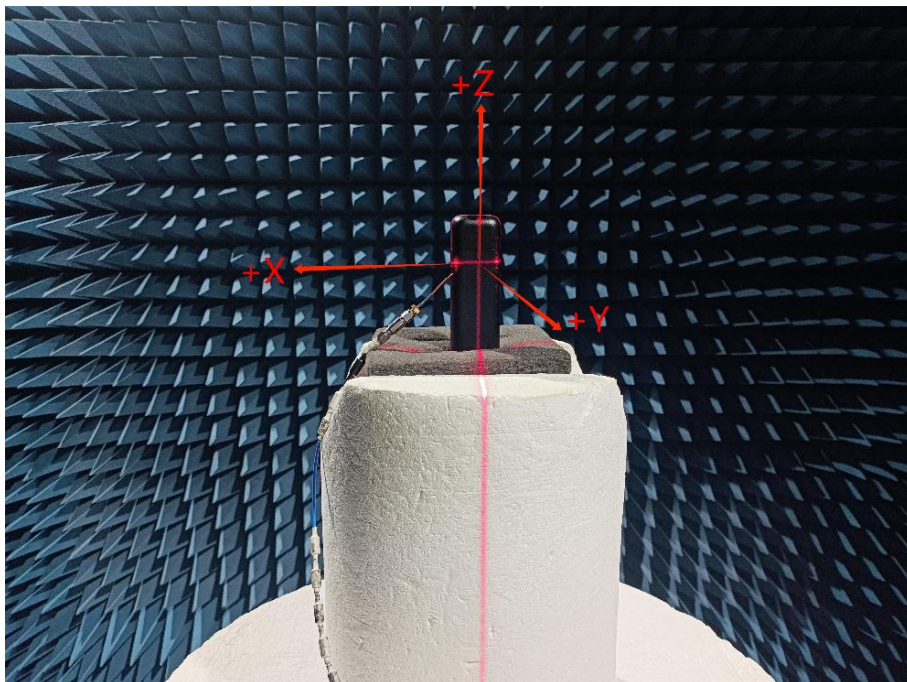
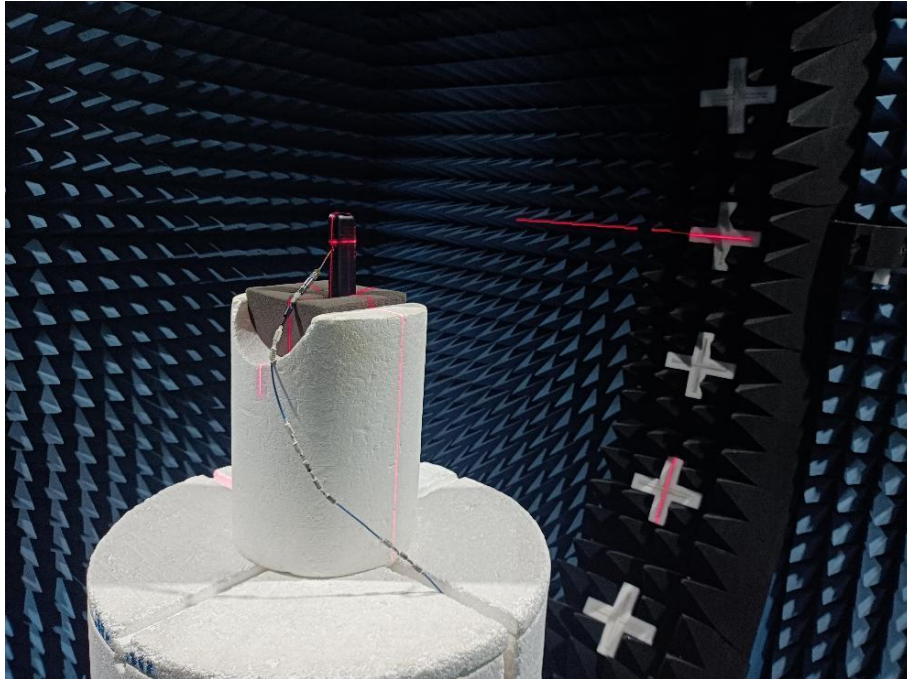
2440MHz_2#



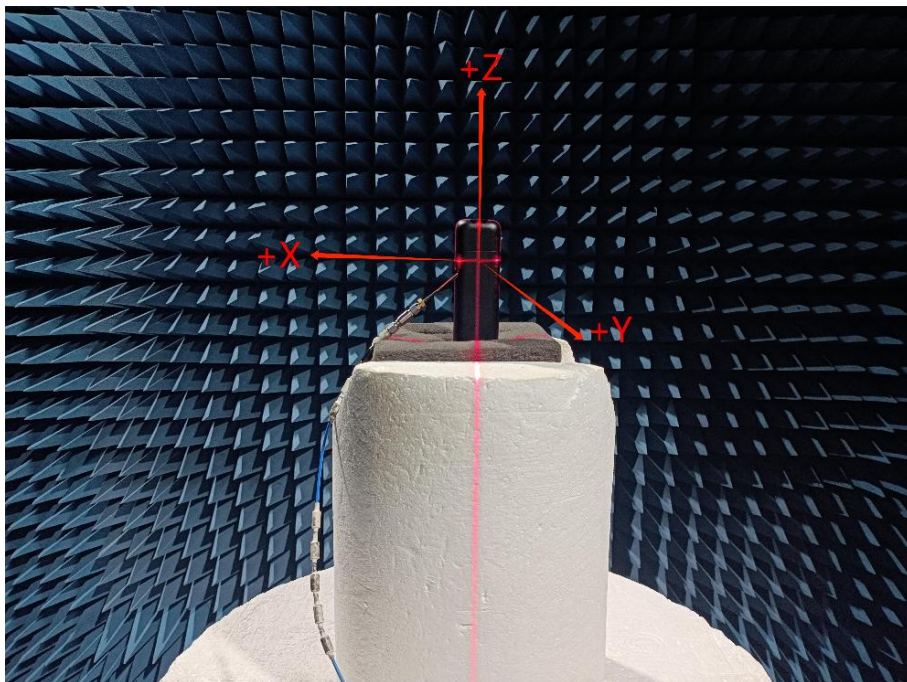
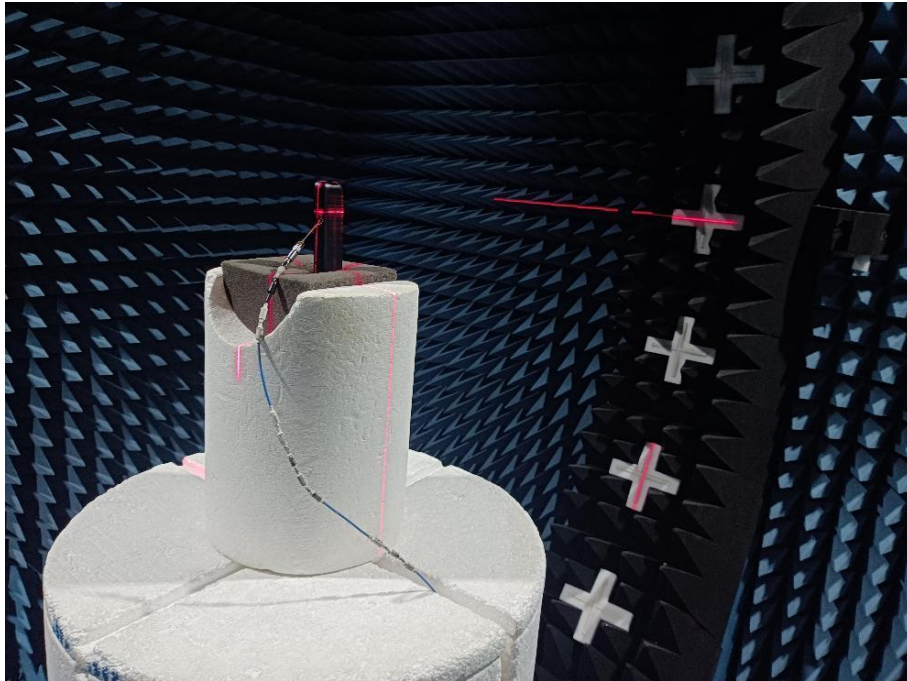
2480MHz_2#

Annex C EUT Photos

1. Test environment



1#

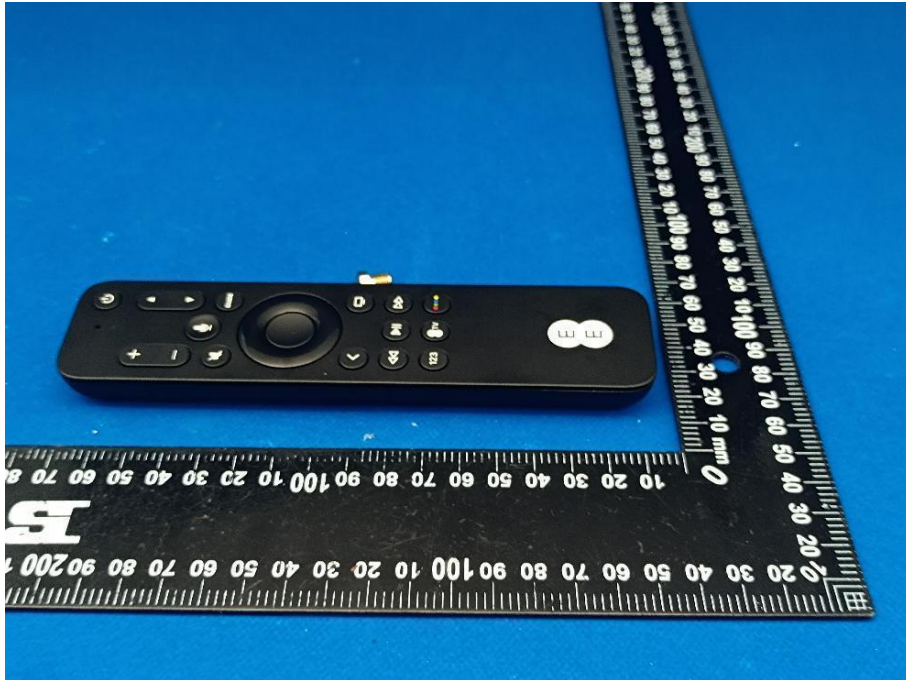


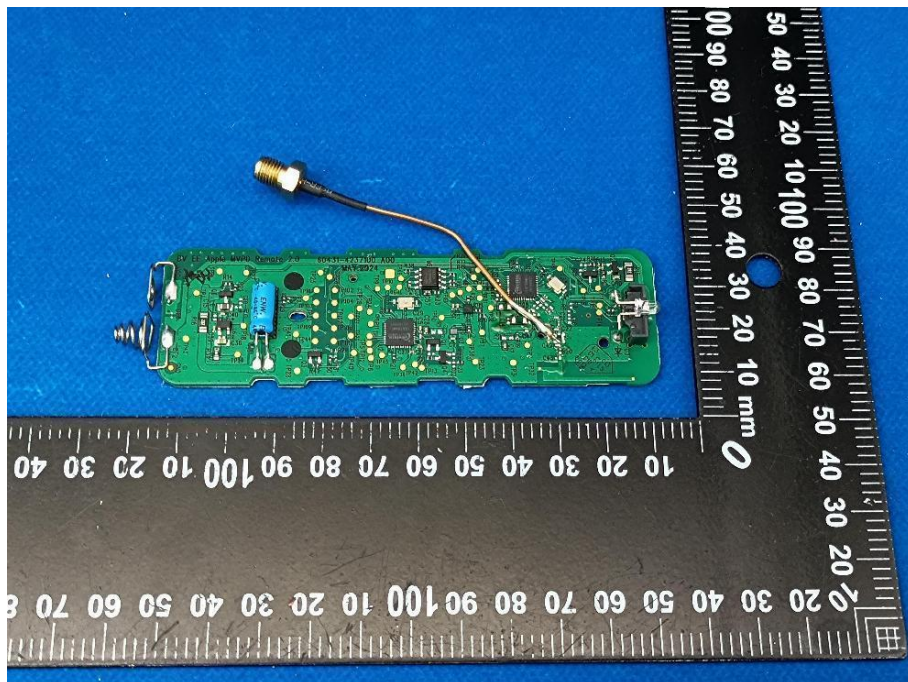
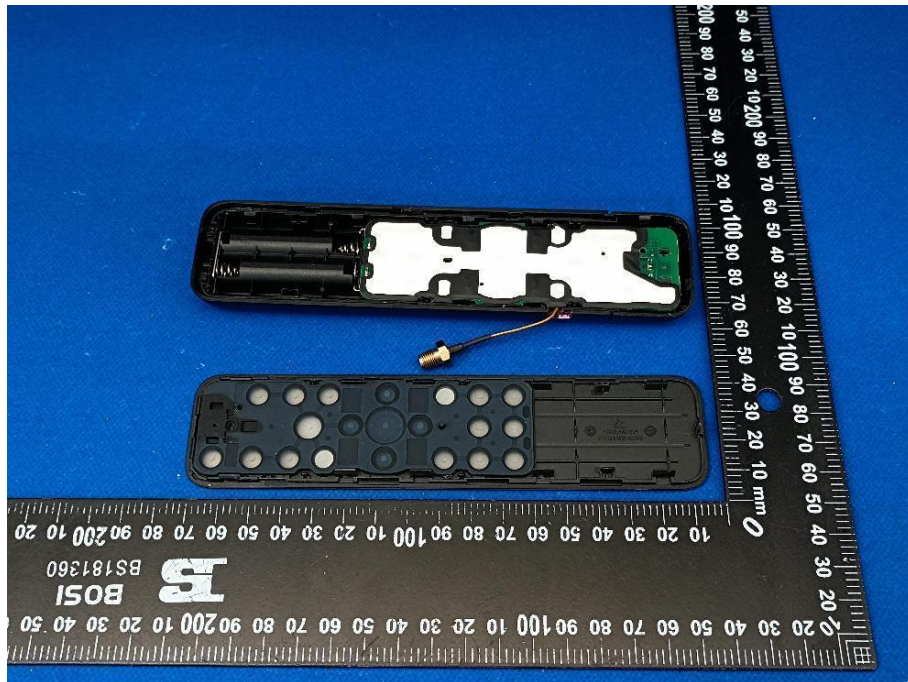
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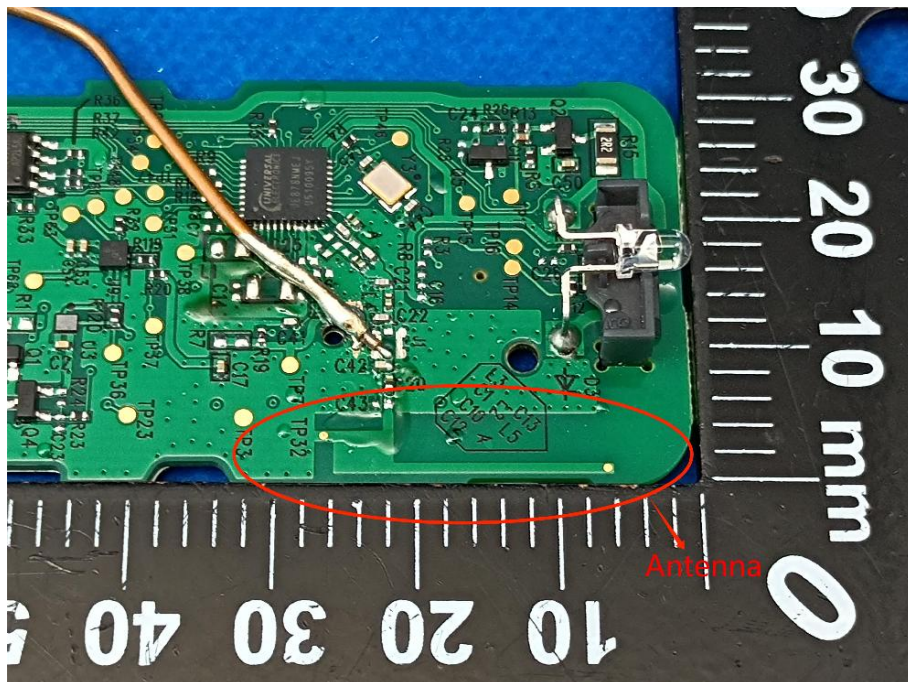
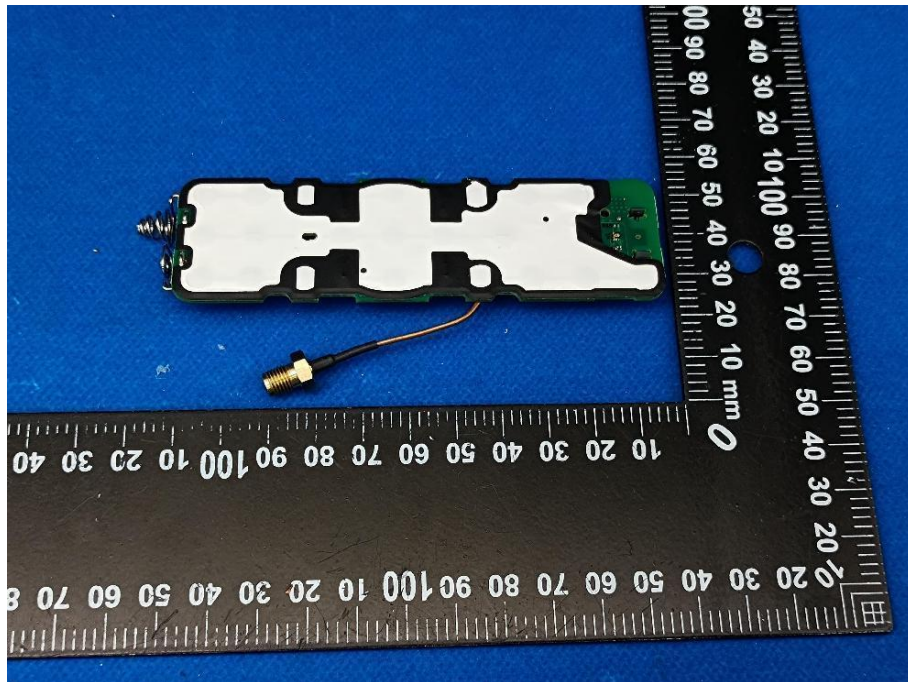
2. EUT









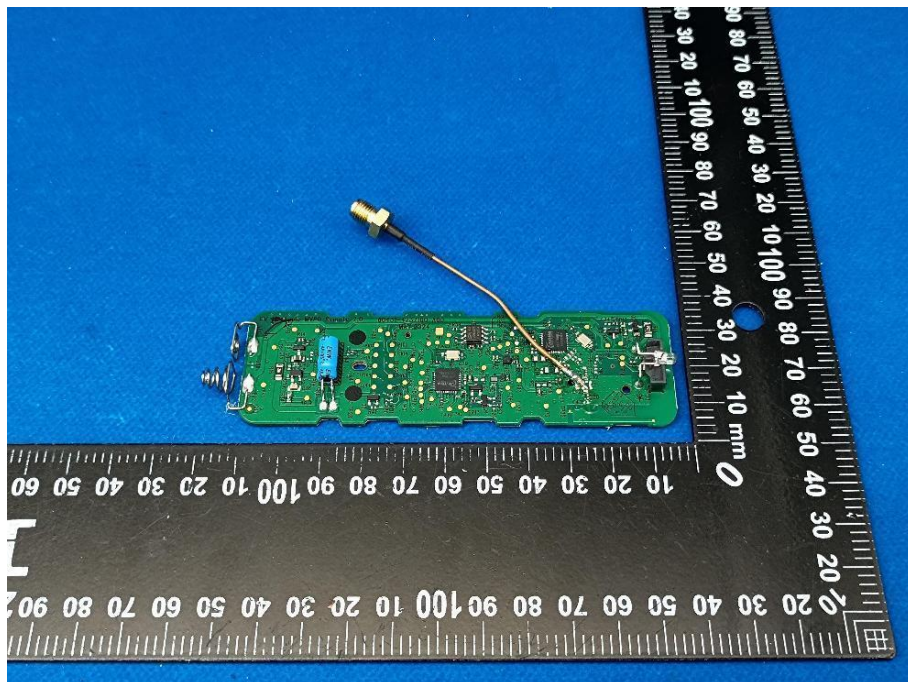
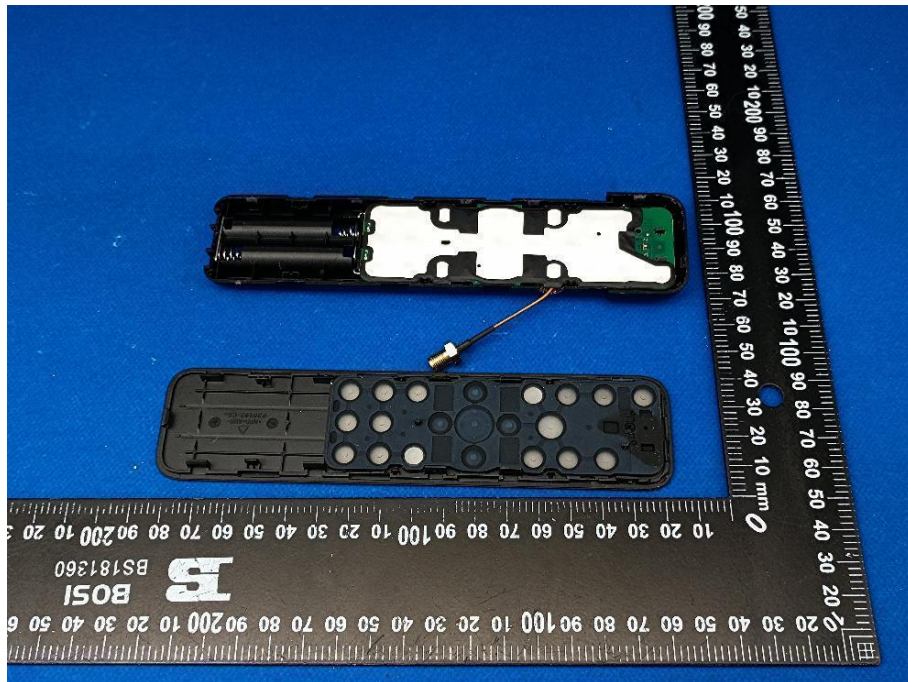


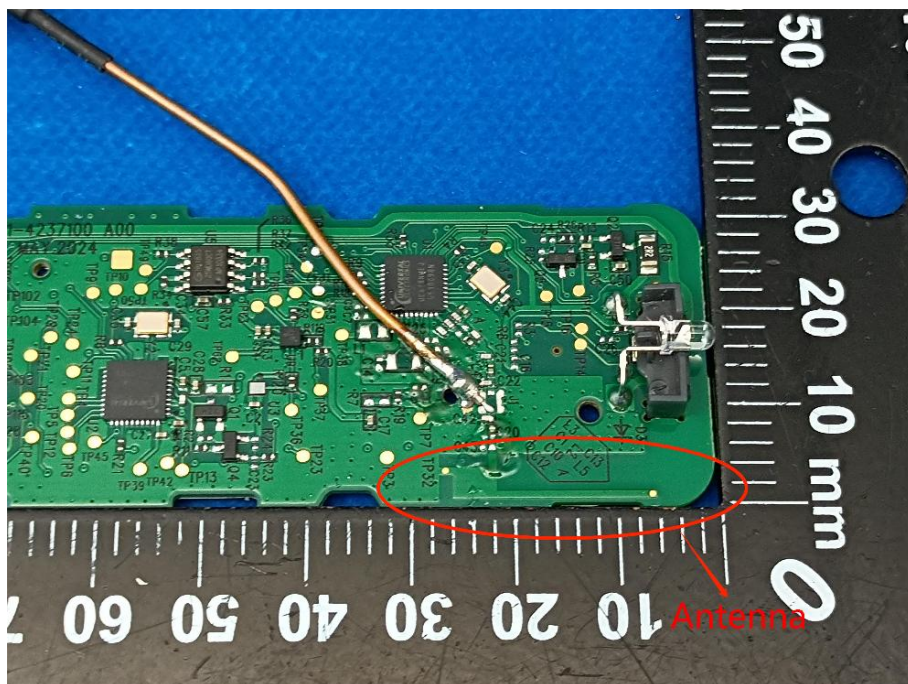
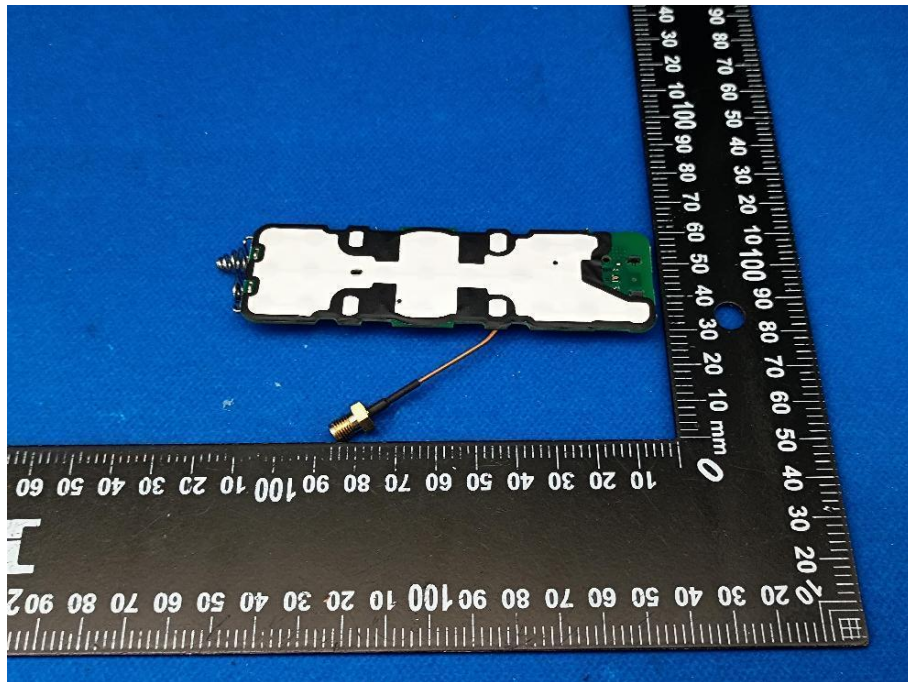
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2#



Annex D General Information

1.1 Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	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.	Equipment Name	Serial No.	Type	Manufacturer	Cal.Date	Cal.Due Date
1	Network Analyzer	MY46110140	E5071C	Agilent	2024.05.30	2025.05.29
2	OTA Chamber	TJ2235-Q1793	AMS-892 3-150	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 —————