



REPORT No.: SZ22080085E01

TEST REPORT

APPLICANT : Gemstar Technology(Yangzhou) Co.Ltd

PRODUCT NAME : Remote control

MODEL NAME : BV BeIN Monarch Linux Voice URCU 2021

TRADE NAME : N/A

BRAND NAME : N/A

STANDARD(S) : ANSI/IEEE Std 149-2008

RECEIPT DATE : 2022-08-08

TEST DATE : 2022-08-09

ISSUE DATE : 2022-08-12



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MORLAB

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Change History		
Version	Date	Reason for change
1.0	2022-08-12	First edition



1. Technical Information

Note: Provide by manufacturer.

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	ANSI/IEEE Std 149-2008	IEEE Standard Test Procedures for Antennas

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	



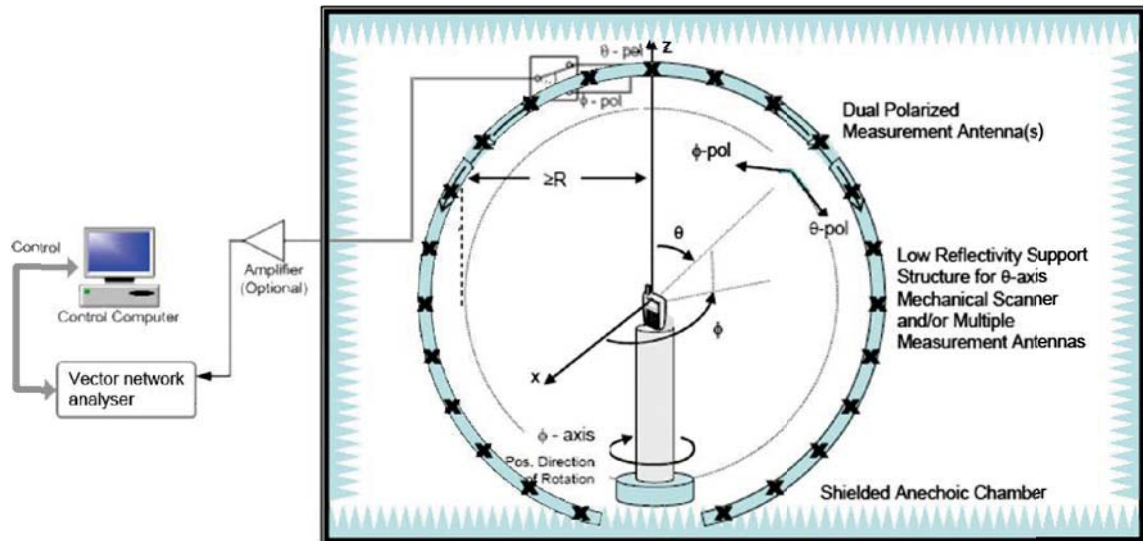
2.4. Test Results lists

2.4.1. Gain and Efficiency

Frequency(MHz)	Gain(dBi)		Efficiency(%)		Efficiency(dB)	
	1#	2#	1#	2#	1#	2#
2400	0.44	0.29	39.03	37.41	-4.09	-4.27
2402	0.47	0.29	39.61	37.89	-4.02	-4.21
2410	0.43	0.23	39.31	37.59	-4.05	-4.25
2420	0.39	0.17	38.93	37.10	-4.10	-4.31
2430	0.43	0.29	39.03	37.03	-4.09	-4.31
2440	0.58	0.47	40.44	38.19	-3.93	-4.18
2450	0.75	0.53	41.66	39.18	-3.80	-4.07
2460	0.87	0.62	42.47	39.85	-3.72	-4.00
2470	0.80	0.54	41.99	39.31	-3.77	-4.06
2480	0.61	0.29	41.76	38.94	-3.79	-4.10
2490	0.50	0.22	41.33	38.50	-3.84	-4.15
2500	0.45	0.23	42.15	39.29	-3.75	-4.06

Annex A Photographs

1. Test Setup

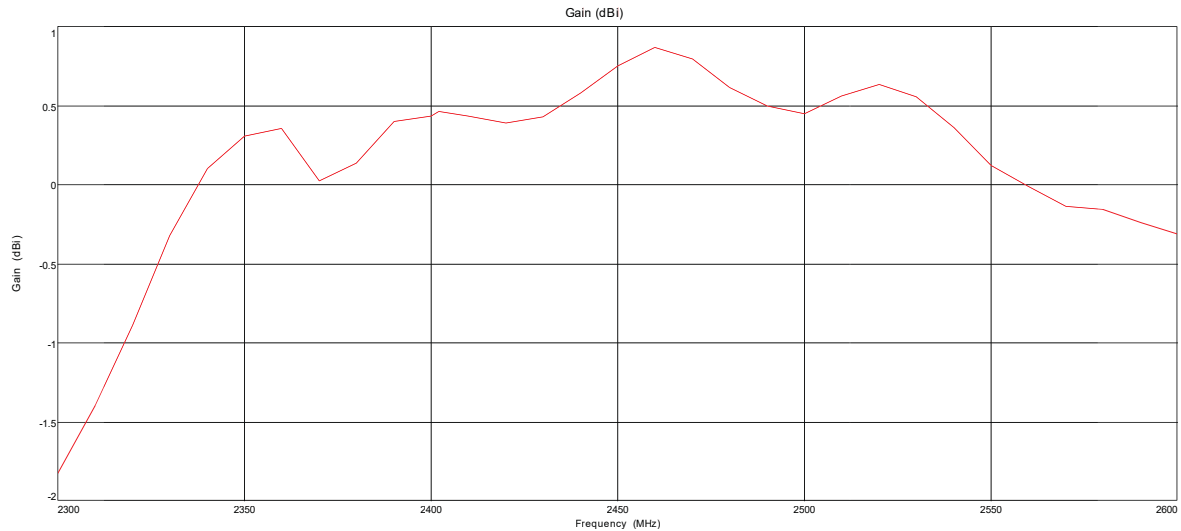




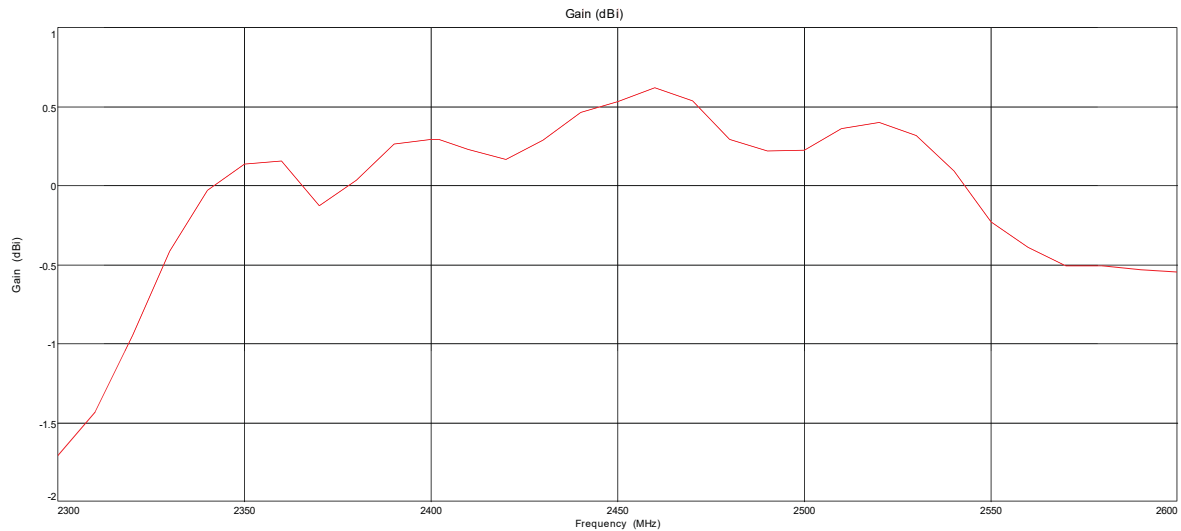
Annex B Figures

1. 2D Radiation Pattern

Gain



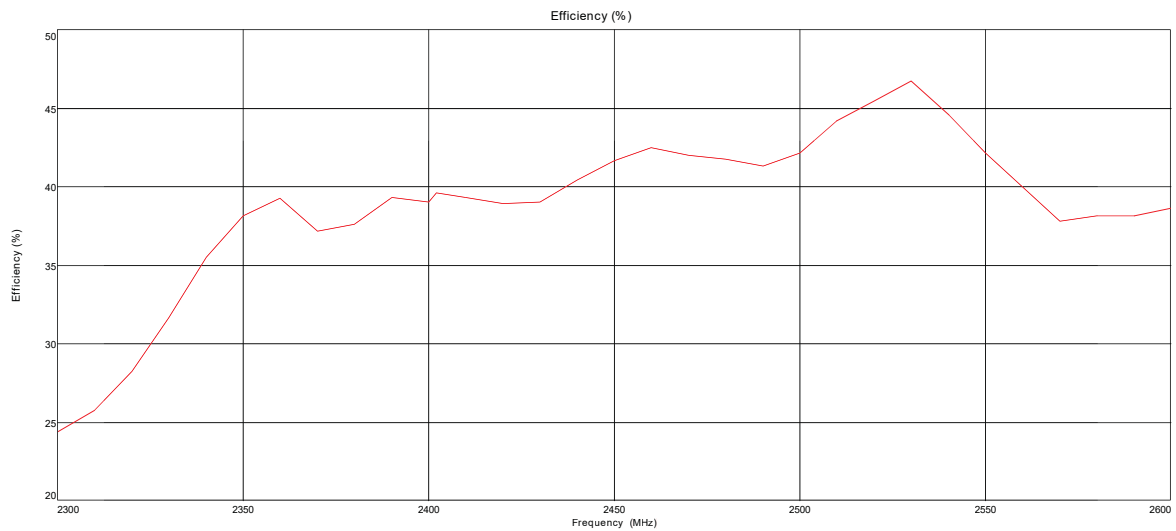
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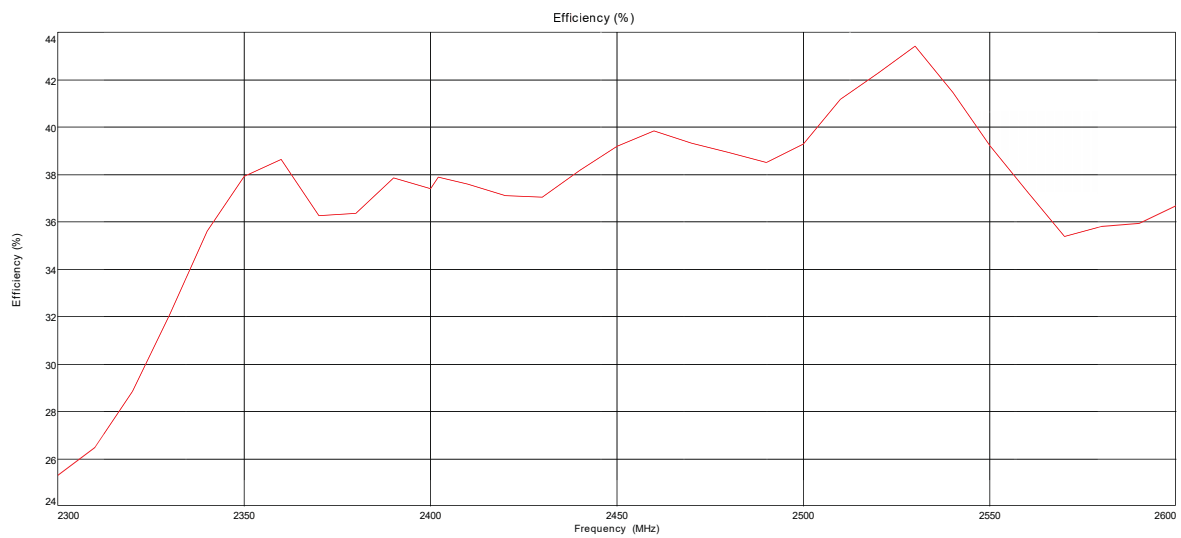
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Efficiency



1#

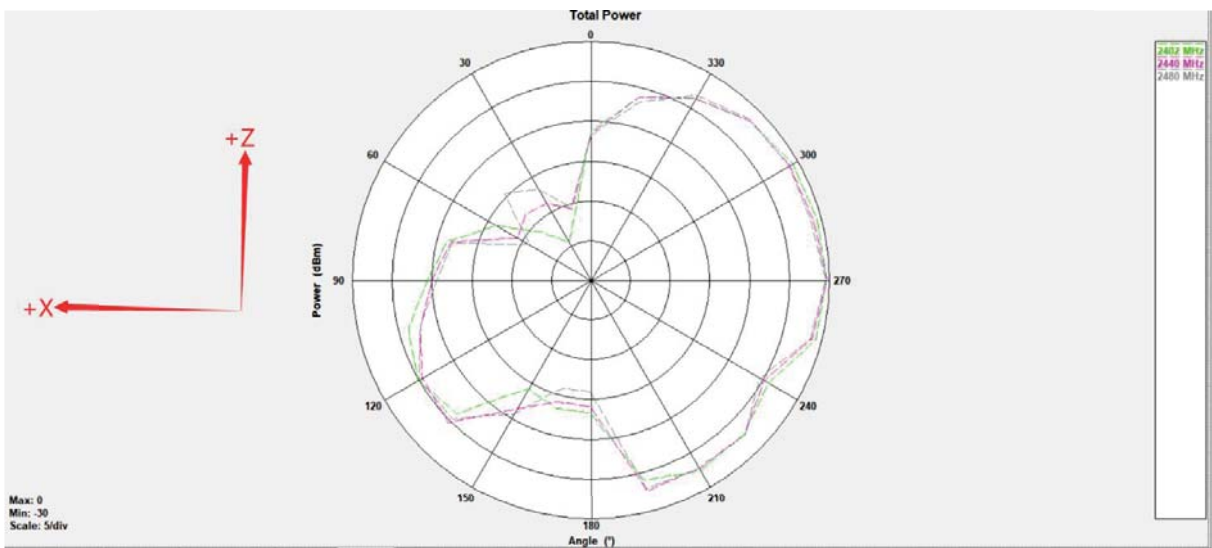
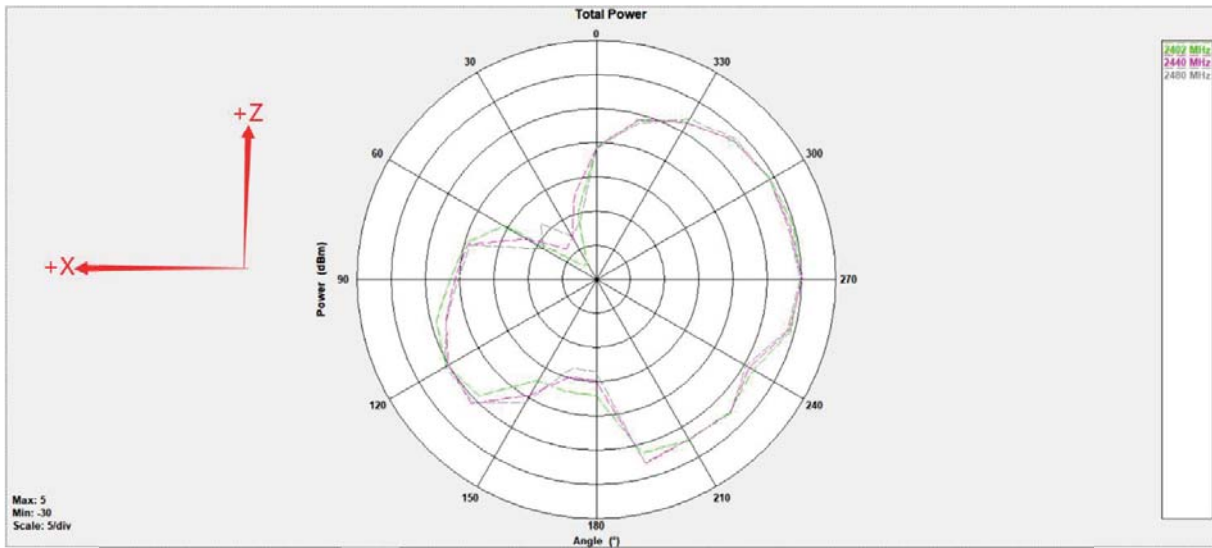


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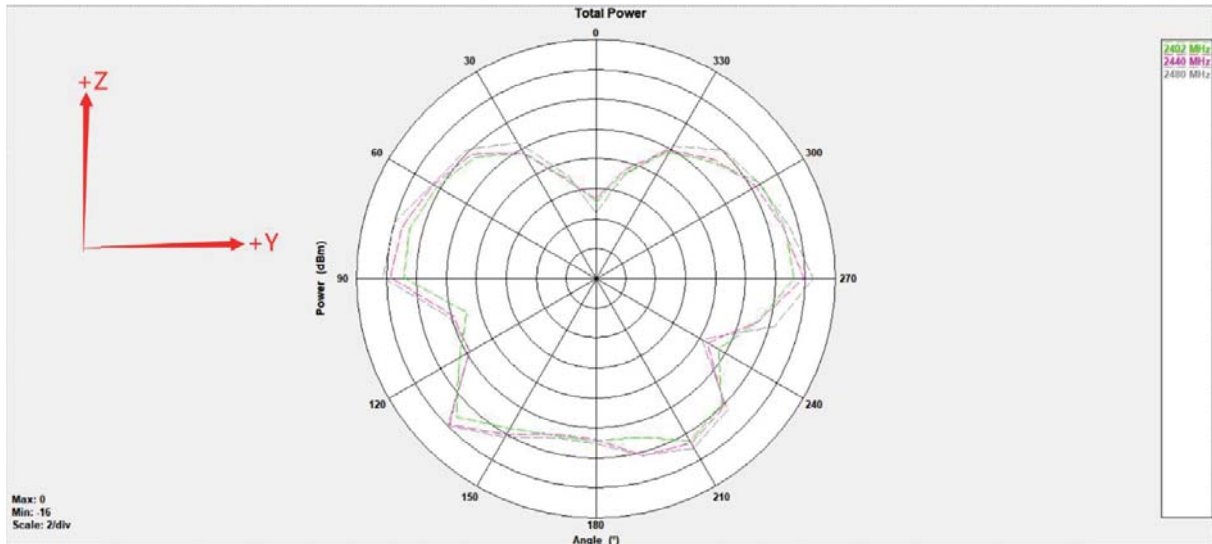
Phi=0°



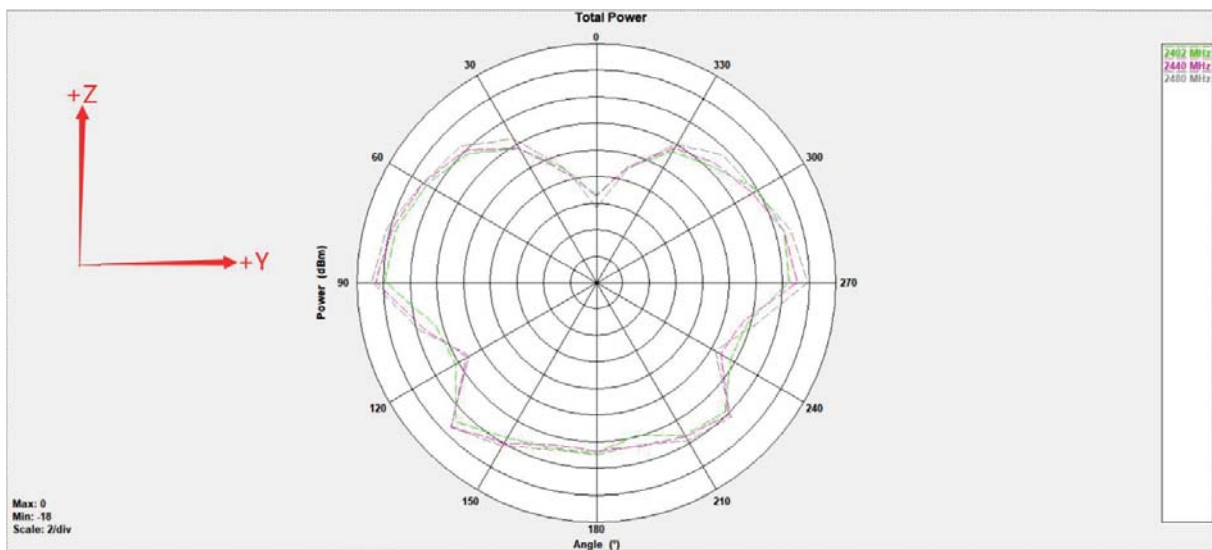


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Phi=90°

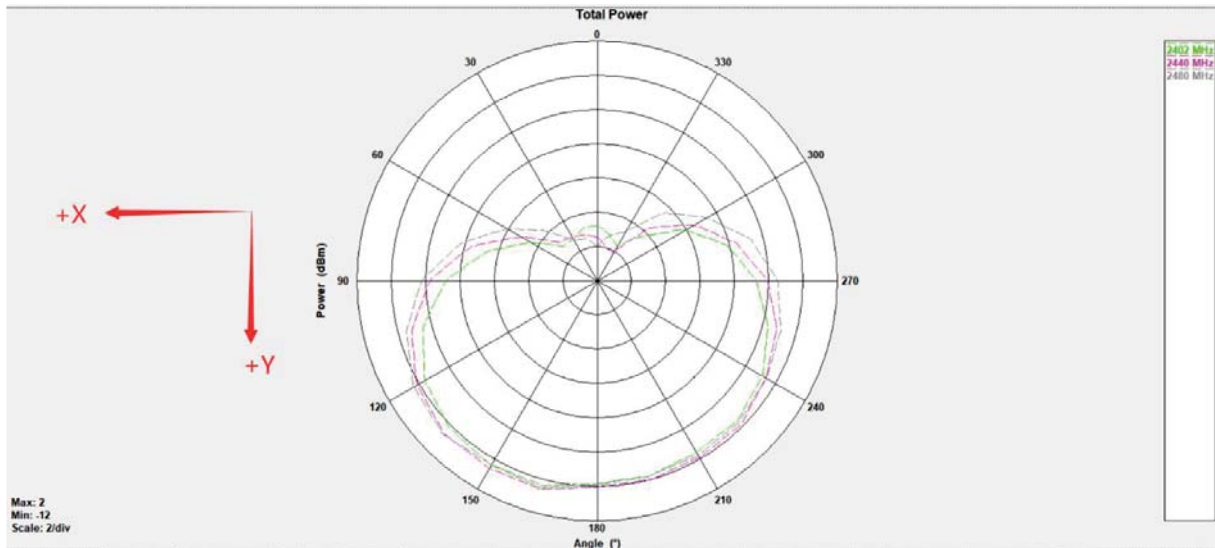


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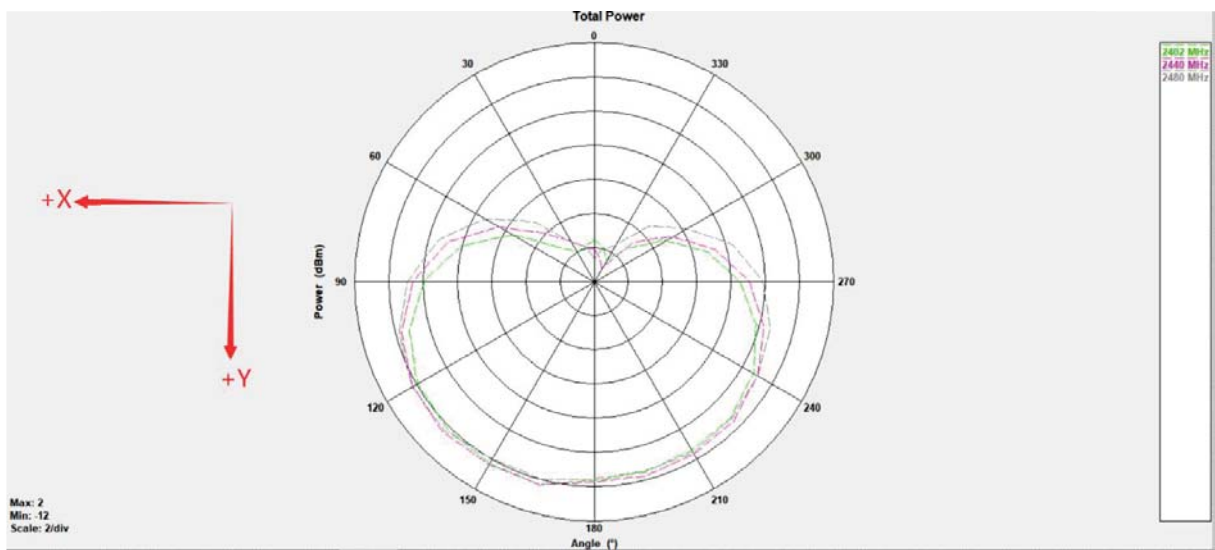


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Theta=90°

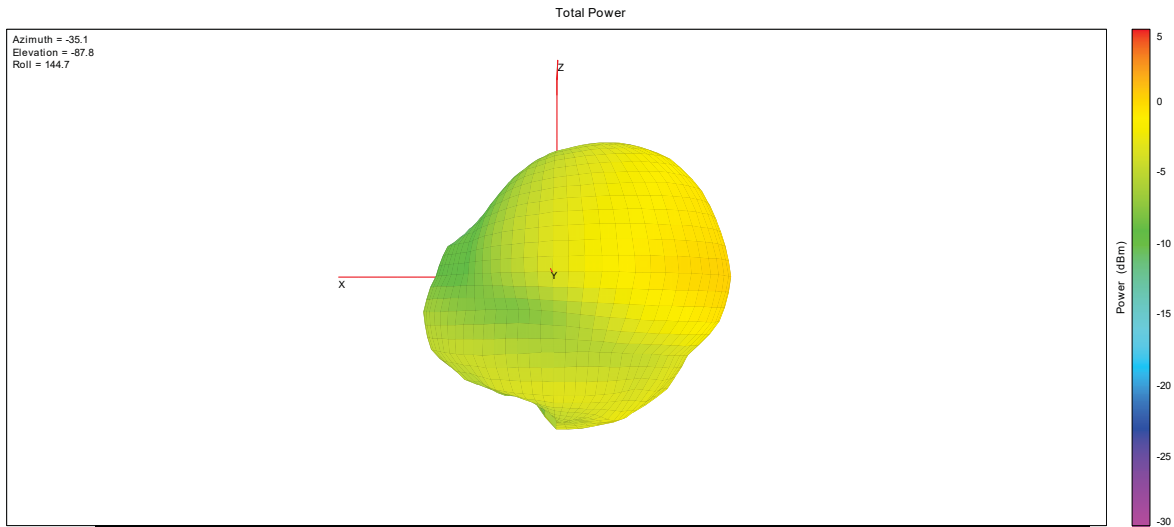


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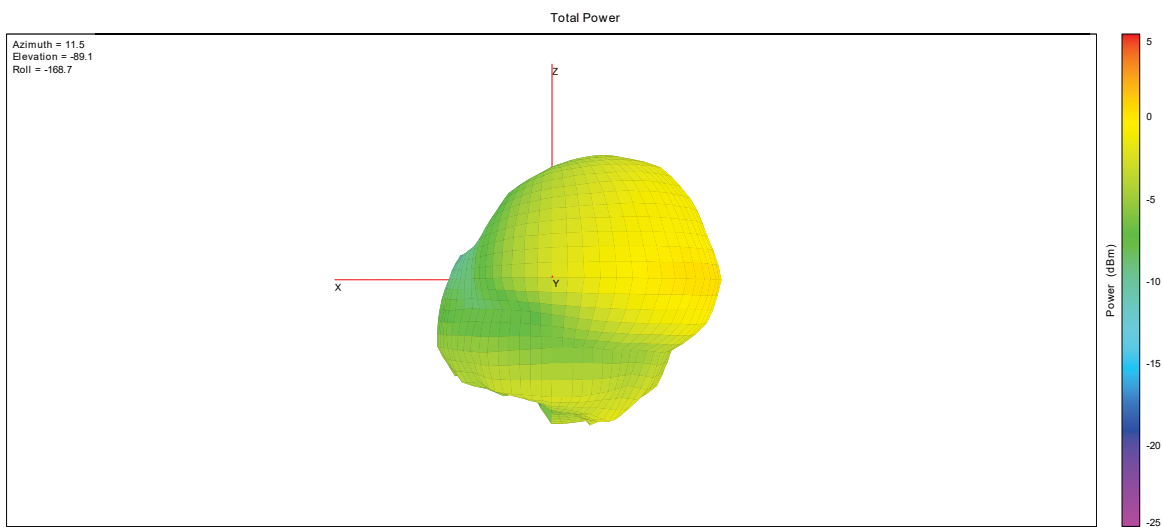


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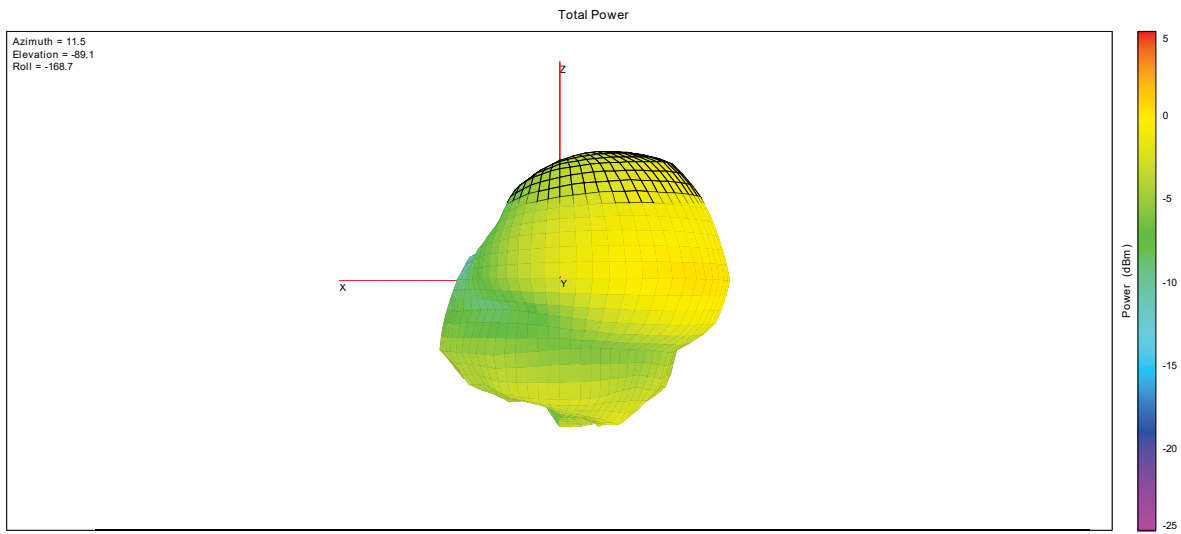
2. 3D Radiation Pattern



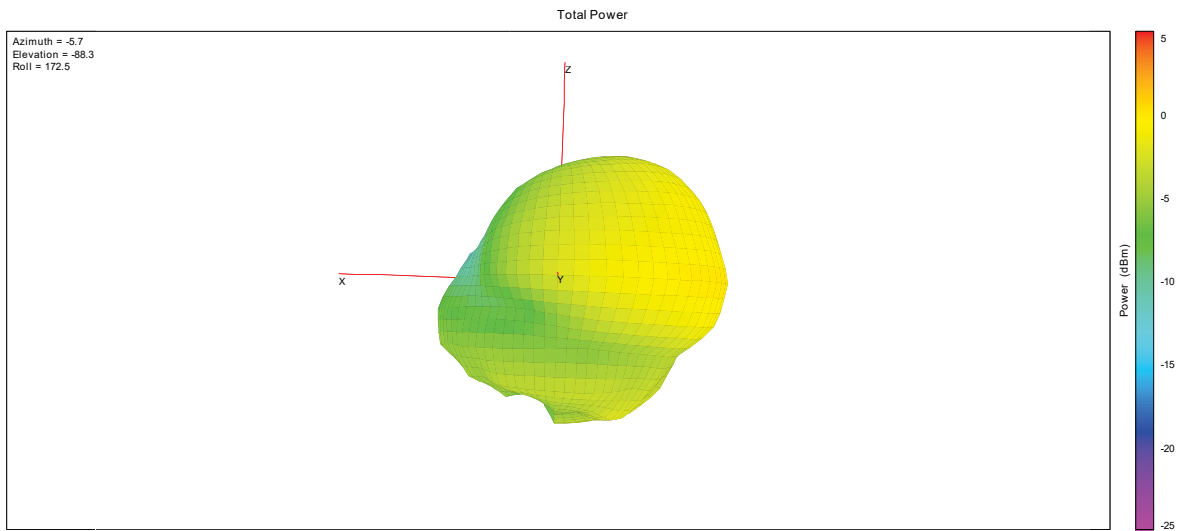
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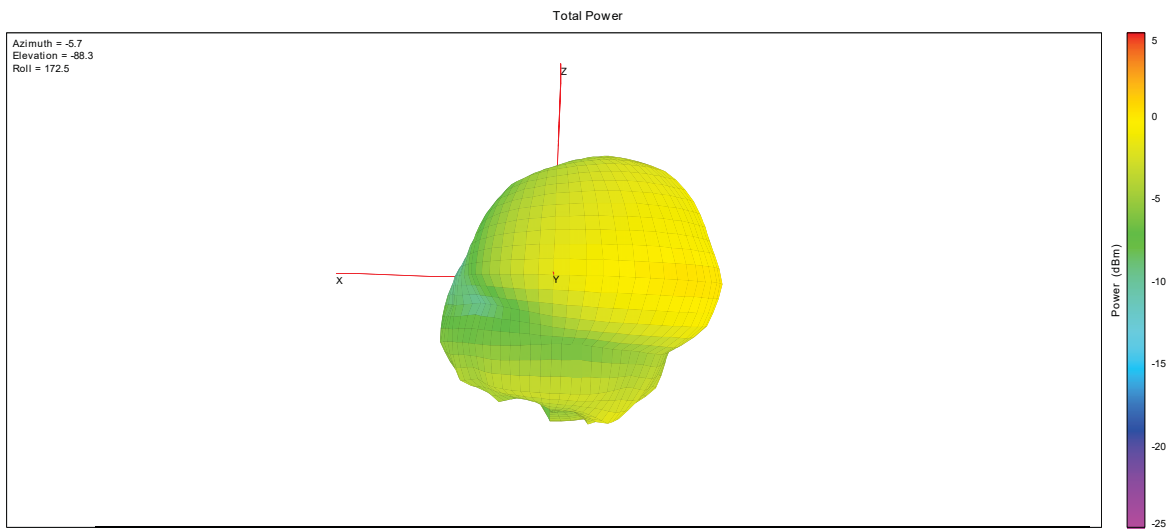
2440MHz_1#



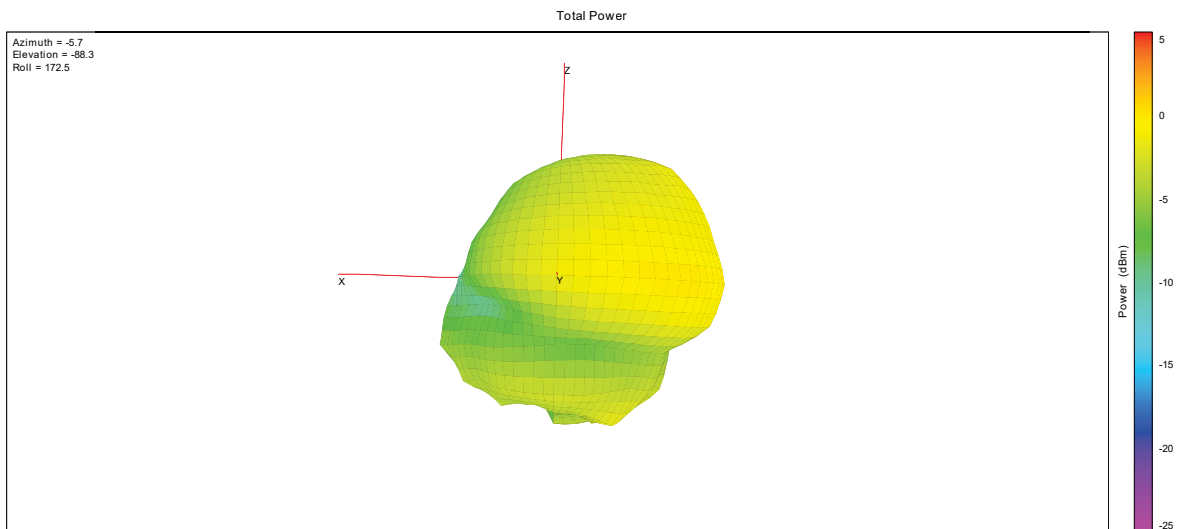
2480MHz_1#



2402MHz_2#



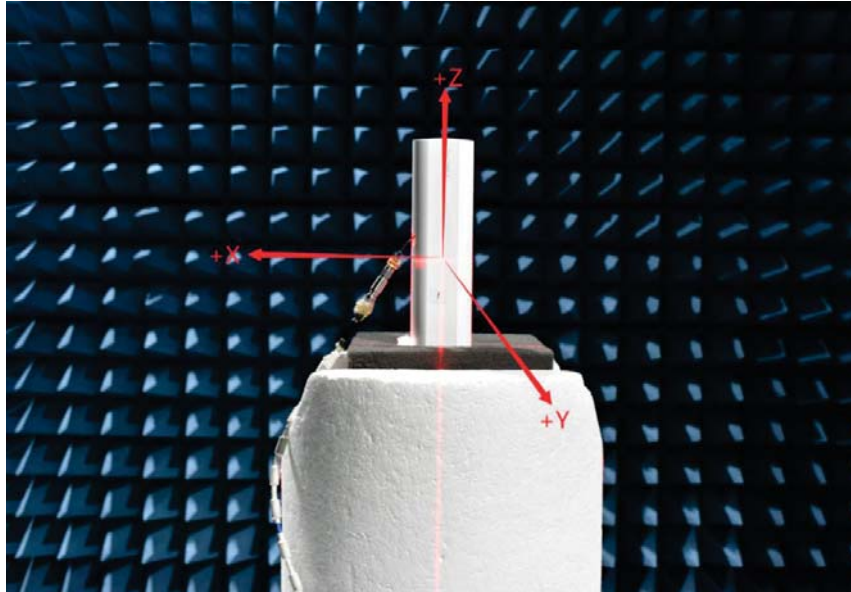
2440MHz_2#



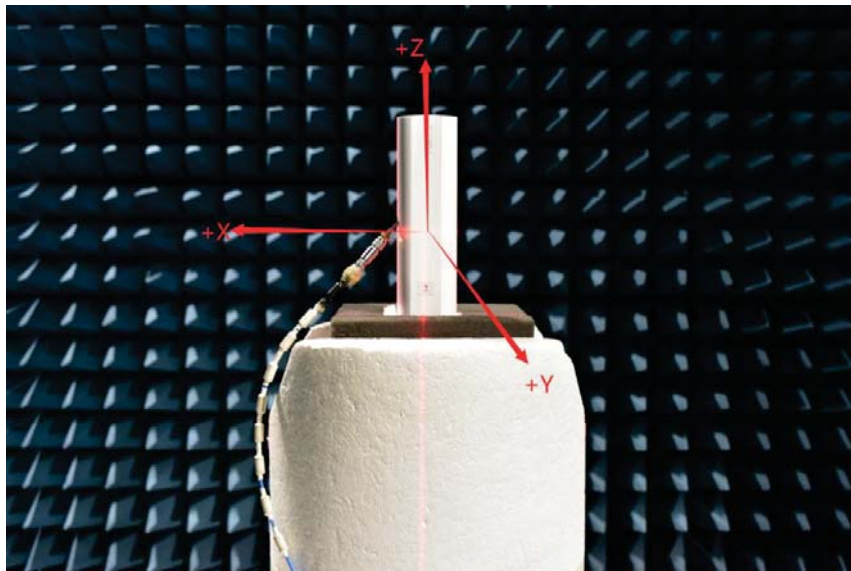
2480MHz_2#

Annex C Photographs

1. Test environment



1#



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.	Equipment 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-Q17 93	AMS-8923-1 50	ETS	2020.01.06	2023.01.05
3	Antenna Measurement System	1685	EMQuest EMQ-100 V 1.13 Build 21267	ETS	N/A	N/A

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