



REPORT No.: SZ23080255E01

TEST REPORT

APPLICANT : ERA TOYS LIMITED

PRODUCT NAME : BE@RBRICK AUDIO 400% Bluetooth Speaker

MODEL NAME : BB4

TRADE NAME : BE@RBRICK AUDIO

BRAND NAME : BE@RBRICK AUDIO

STANDARD(S) : IEEE Std 149-2021

RECEIPT DATE : 2023-08-25

TEST DATE : 2023-09-05

ISSUE DATE : 2023-11-17

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Chi Shide(Supervisor)

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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
Annex C General Information	10
1.1 Identification of the Responsible Testing Laboratory	10
1.2 Identification of the Responsible Testing Location	10
1.3 TestEquipments Utilized	10
Annex D EUT Photos	

Change History		
Version	Date	Reason for change
1.0	2023-11-17	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	ERA TOYS LIMITED
ApplicantAddress:	Beverley Commerical Centre 87 - 105 Chatham Road South, 5/F., Room 505 Tsim Sha Tsui, Kowloon Hong Kong
Manufacturer:	ERA TOYS LIMITED
ManufacturerAddress:	Beverley Commerical Centre 87 - 105 Chatham Road South, 5/F., Room 505 Tsim Sha Tsui, Kowloon Hong Kong

1.2. Equipment Under Test (EUT) Description

Wireless Type	Bluetooth
Frequency	2400MHz-2500MHz
IMEI	N/A
Product HW Version	V1.0
Product SW Version	V1.0
Sample No.	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.

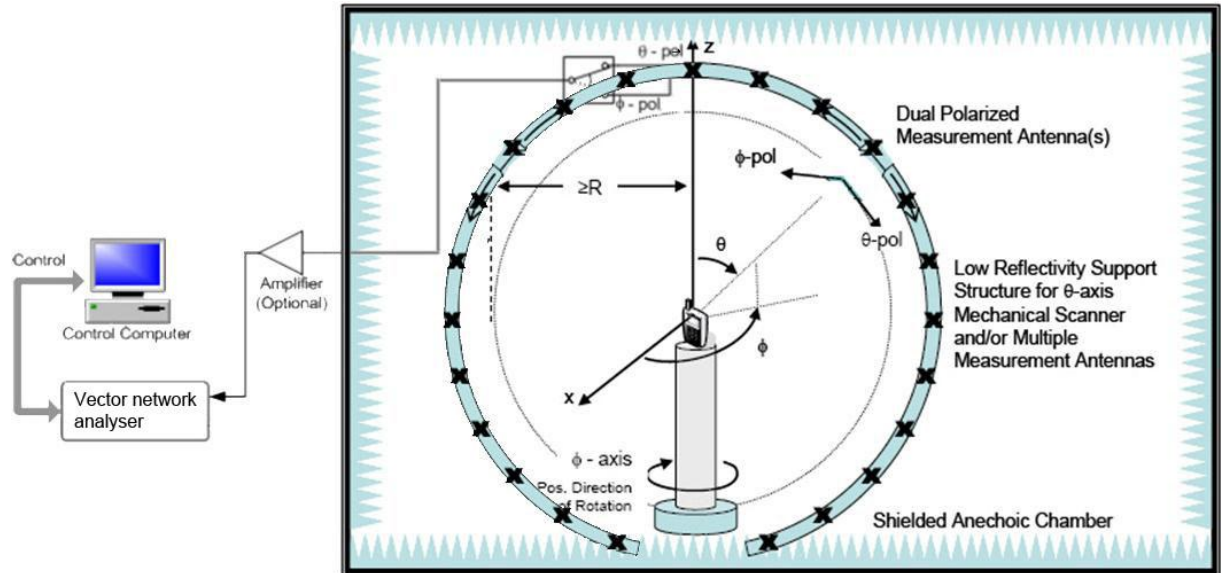


2.4. Test Results lists

2.4.1. Gain

Frequency (MHz)	Gain(dBi)
2400	1.13
2410	0.96
2420	1.07
2430	1.05
2440	0.88
2450	0.45
2460	-0.11
2470	-0.67
2480	-0.87
2490	-0.96
2500	-1.03

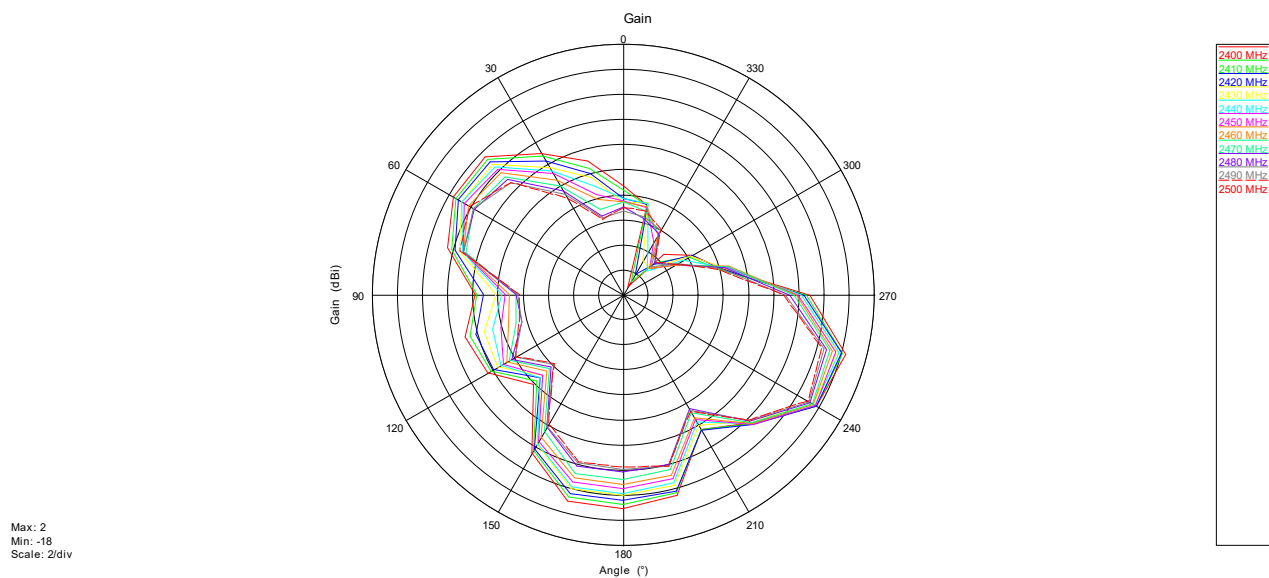
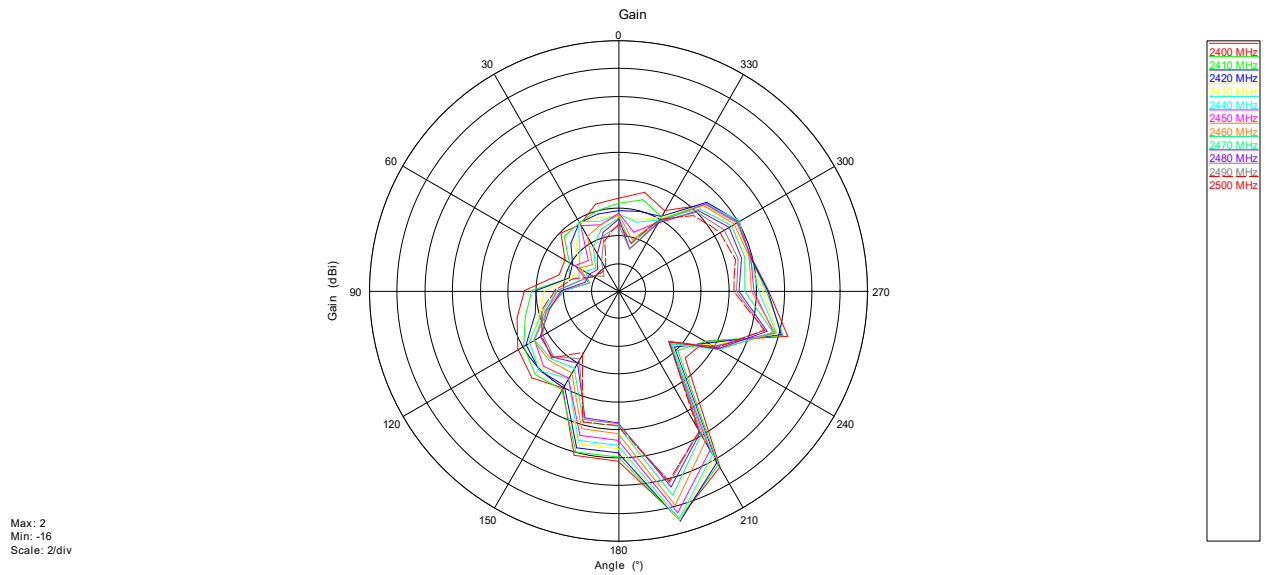
Annex A Test Setup Photos

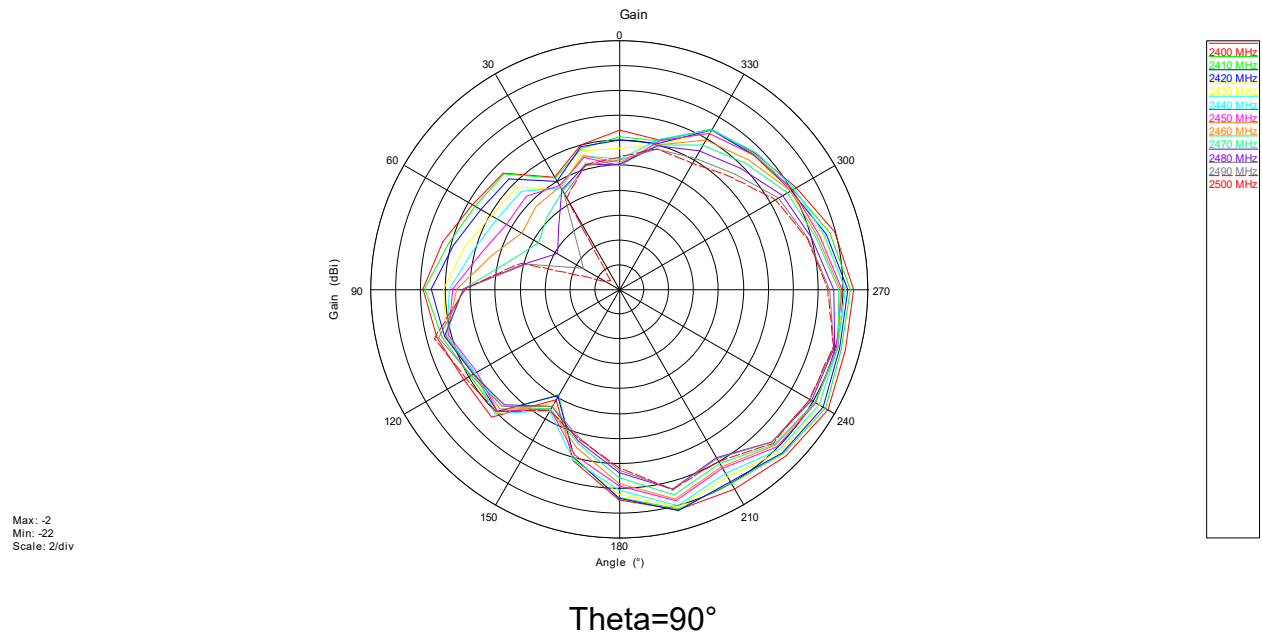




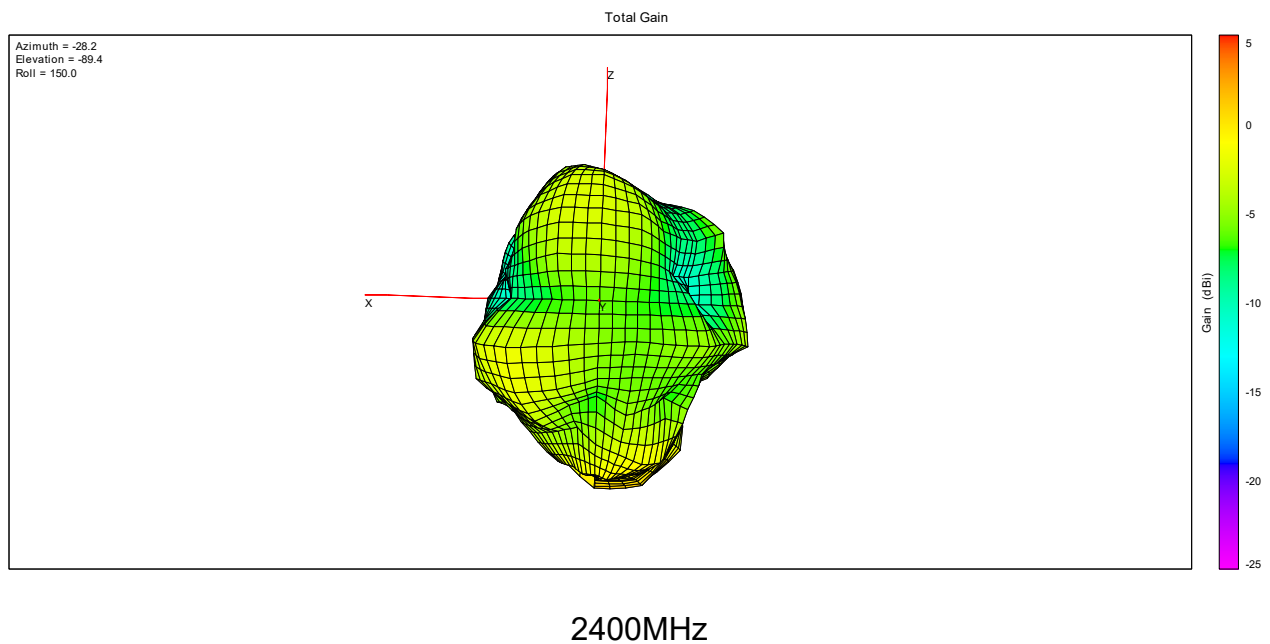
Annex B Figures

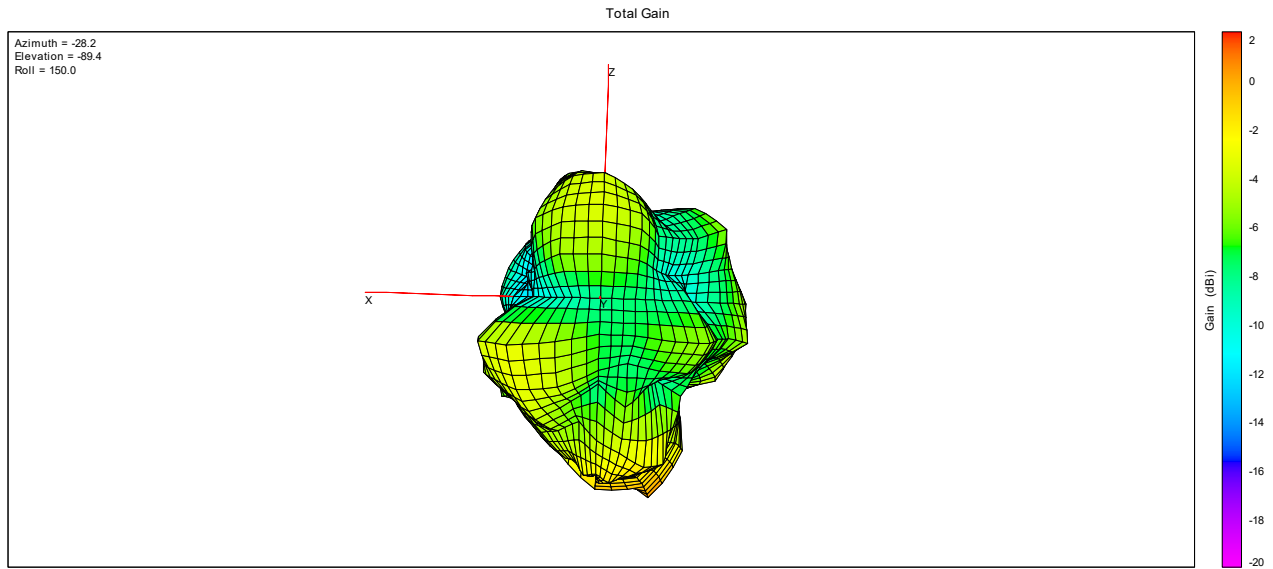
1. 2D Radiation Pattern



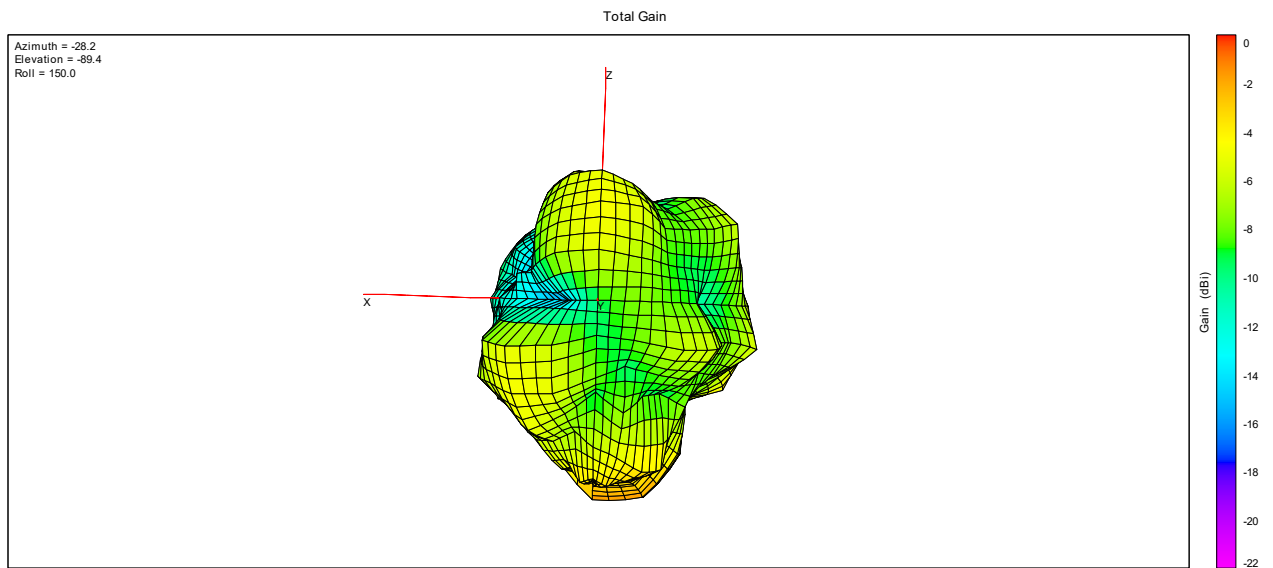


2. 3D Radiation Pattern





2440MHz



2480MHz



Annex C General Information

1.1 Identification of the Responsible Testing Laboratory

Laboratory Name:	ShenzhenMorlab 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:	ShenzhenMorlab 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 TestEquipments 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
3	Antenna Measurement System	1685	EMQuest EMQ-100 V 1.13 Build 21267	ETS	N/A	N/A

Note:The Main report is end here and the other Annex D will be submitted separately.

————— END OF REPORT —————