



中认信通

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)

ANTENNA TEST REPORT

Manufacturer: Zhejiang Yulu Electronic Technology Co., Ltd.

Address: No. 298, Weiye Road, Binjiang District, Hangzhou City,
Zhejiang Province

Product Name: LED shuttle knob

Product Model: MR-E004

Report Number: 2403X39932E-RF-M1

Date Of Issue: 2024/12/5

Reviewed: Luke Yuan

Title: OTA Engineer

Luke Yuan

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Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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Each test item follows the test standard(s) without deviation.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2403X39932E-RF	Original Report	2024/9/6
2.0	2403X39932E-RF-M1	Amend section 4	2024/12/5

This report is to supersede the test report 2403X39932E-RF which issued on 2024/9/6.

1.GENERAL INFORMATION

Product Name:	LED shuttle knob
Product Model:	MR-E004
Antenna Type:	PCB
Test Items:	Gain; Efficiency; Radiation Pattern
Test Frequency (MHz):	2402/2440/2480
Serial Number:	2R38-1
EUT Received Date:	2024/9/4
EUT Received Status:	Good

2.TEST CONFIGURATIONS

2.1 Test Environment

Temperature (°C)	23.5
Humidity (%RH)	64
Atmospheric Pressure (kPa)	100.4
Tester	Luke Yuan
Test Date	2024/9/5

2.2 Test Equipment

Test Instrument	R&S ZNB8
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3.TEST RESULTS

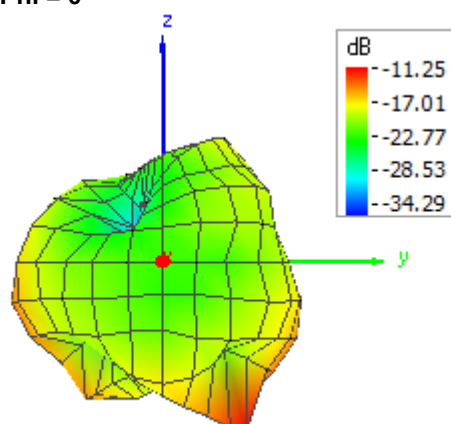
3.1 Gain and Efficiency

Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2402.00	-11.25	1.53
2440.00	-9.51	1.92
2480.00	-8.69	2.19

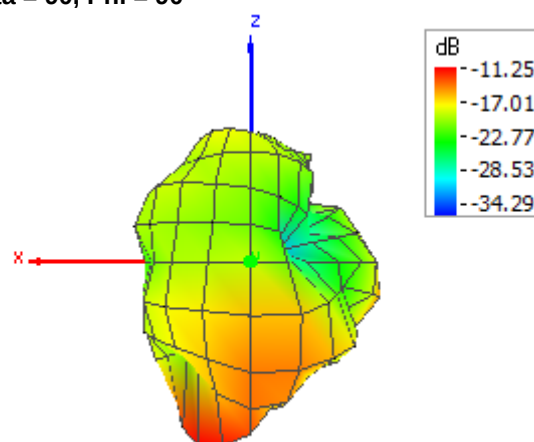
3.2 Radiation Pattern

2402 MHz 3D

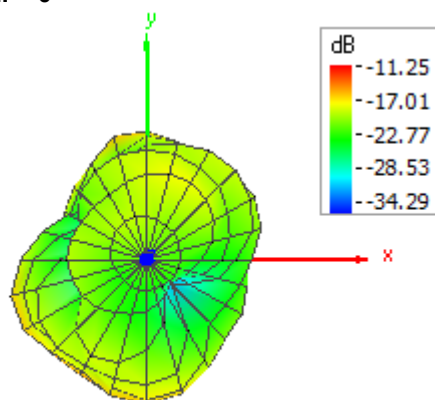
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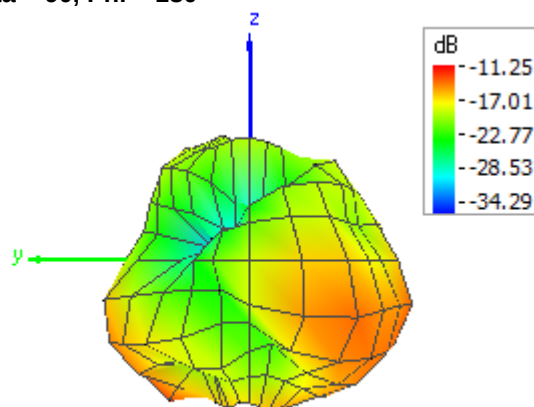
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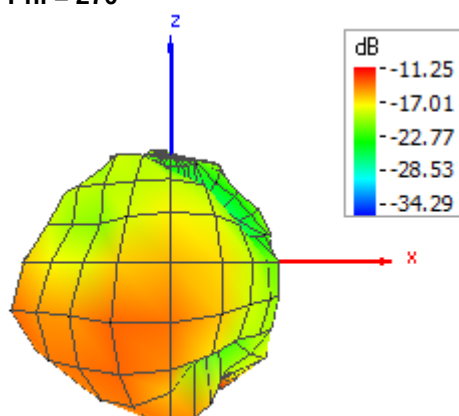
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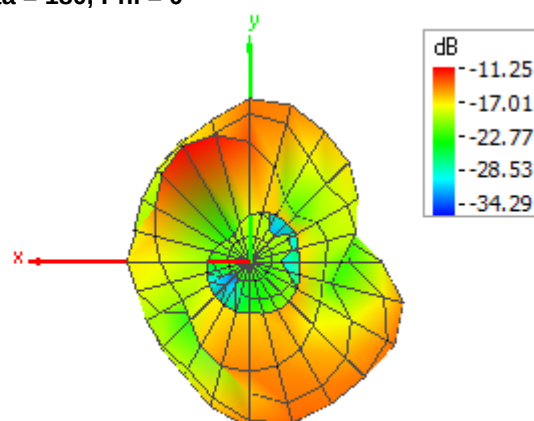
Theta = 90, Phi = 180



Theta = 90, Phi = 270

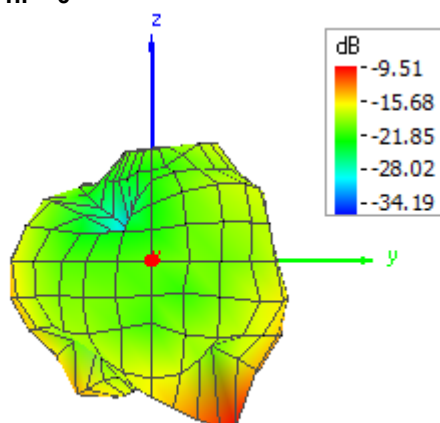


Theta = 180, Phi = 0

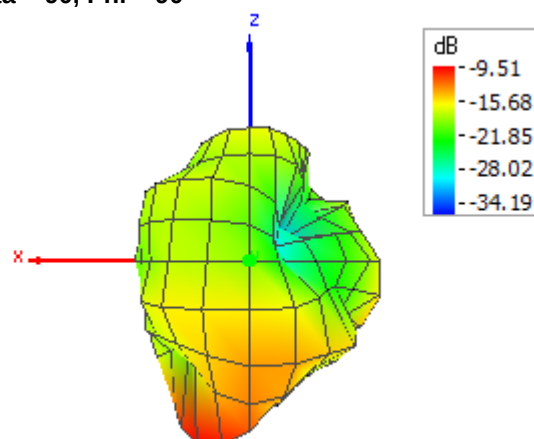


2440 MHz 3D

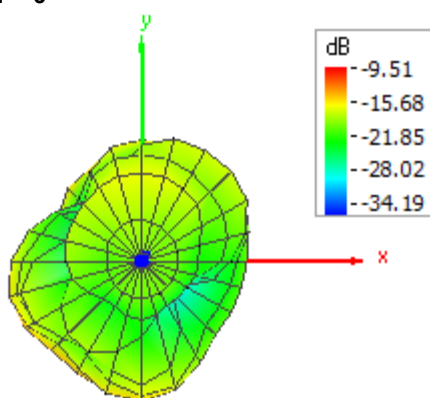
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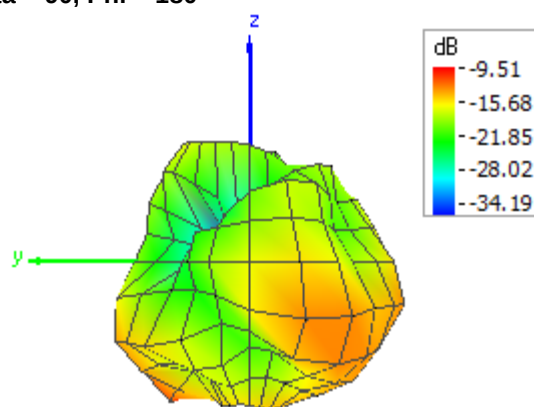
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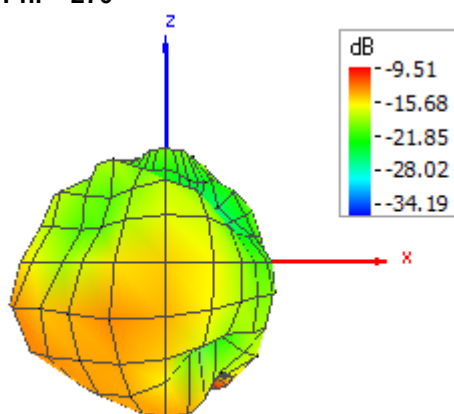
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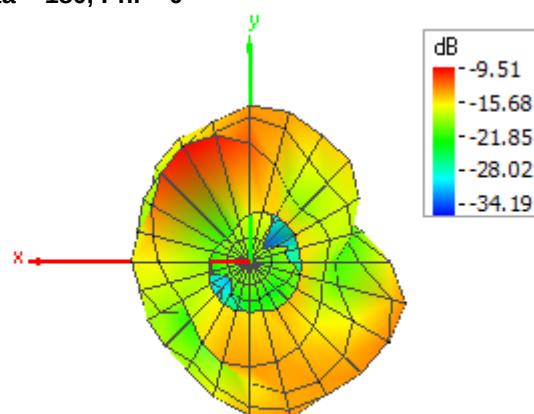
Theta = 90, Phi = 180



Theta = 90, Phi = 270

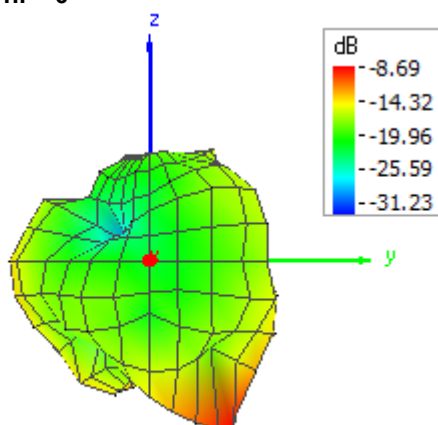


Theta = 180, Phi = 0

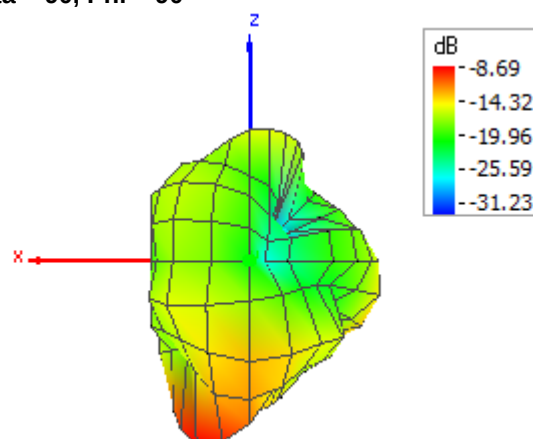


2480 MHz 3D

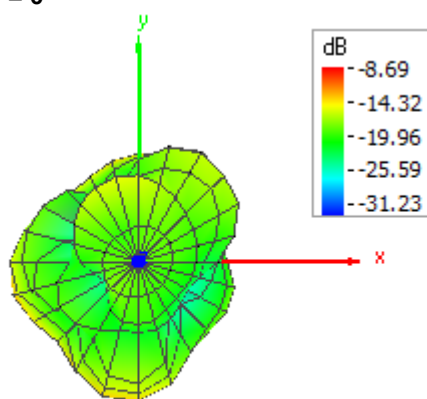
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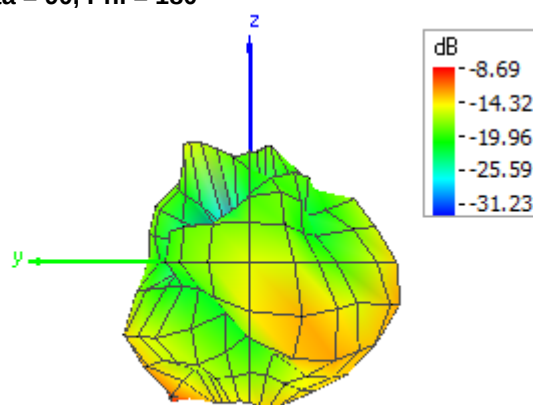
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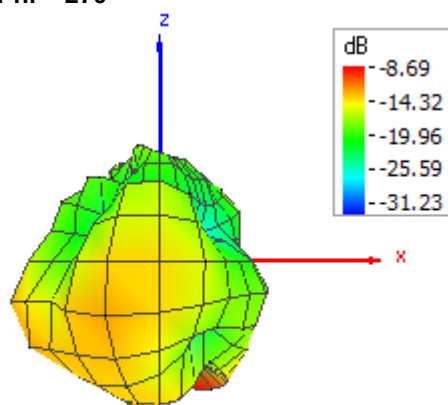
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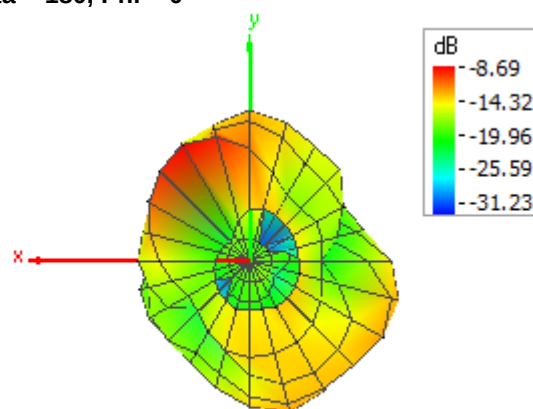
Theta = 90, Phi = 180



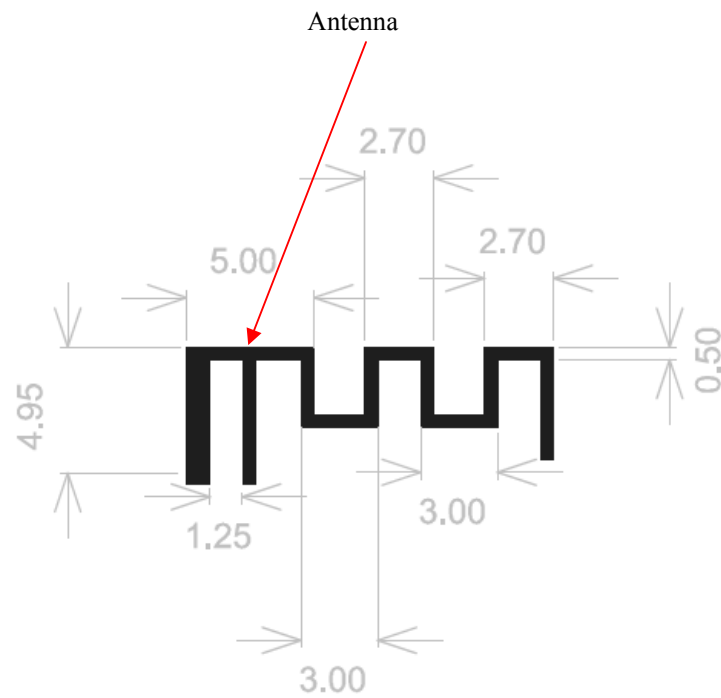
Theta = 90, Phi = 270



Theta = 180, Phi = 0



4.EUT PHOTOGRAPHS



5.TEST SETUP PHOTOGRAPHS



===== END OF REPORT =====