



**中认信通**

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)

## ANTENNA TEST REPORT

**Manufacture:** Astera LED Technology GmbH

**Address:** Schatzbogen 60, 81829 Munich, Germany

**Product Name:** Aganus antenna

**Product Model:** Aganus antenna

**Report Number:** 2403A54189E-RF

**Date Of Issue:** 2025/1/3

**Reviewed & Approved By:** Sun Zhong

*Sun Zhong*

**Title:** Manager

**Test Laboratory:** China Certification ICT Co., Ltd (Dongguan)

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[www.ccttt.com.cn](http://www.ccttt.com.cn)

## **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             | 2403A54189E-RF | Original Report         | 2025/1/3         |

1. GENERAL INFORMATION

|                       |                                        |
|-----------------------|----------------------------------------|
| Product Name:         | Aganus antenna                         |
| Product Model:        | Aganus antenna                         |
| Antenna Type:         | PCB                                    |
| Test Items:           | Gain; Efficiency; Radiation Pattern    |
| Test Frequency (MHz): | 860, 870, 880, 890, 900, 910, 920, 930 |
| Sample Number:        | 2VUB-1                                 |
| EUT Received Date:    | 2024/12/11                             |
| EUT Received Status:  | Good                                   |

2. TEST CONFIGURATIONS

2.1 Test Environment

|                            |          |
|----------------------------|----------|
| Temperature (°C)           | 22       |
| Humidity (%RH)             | 42       |
| Atmospheric Pressure (kPa) | 101.3    |
| Tester                     | Leo Li   |
| Test Date                  | 2025/1/2 |

2.2 Test Equipment

|                 |          |
|-----------------|----------|
| Test Instrument | R&S ZNB8 |
|-----------------|----------|

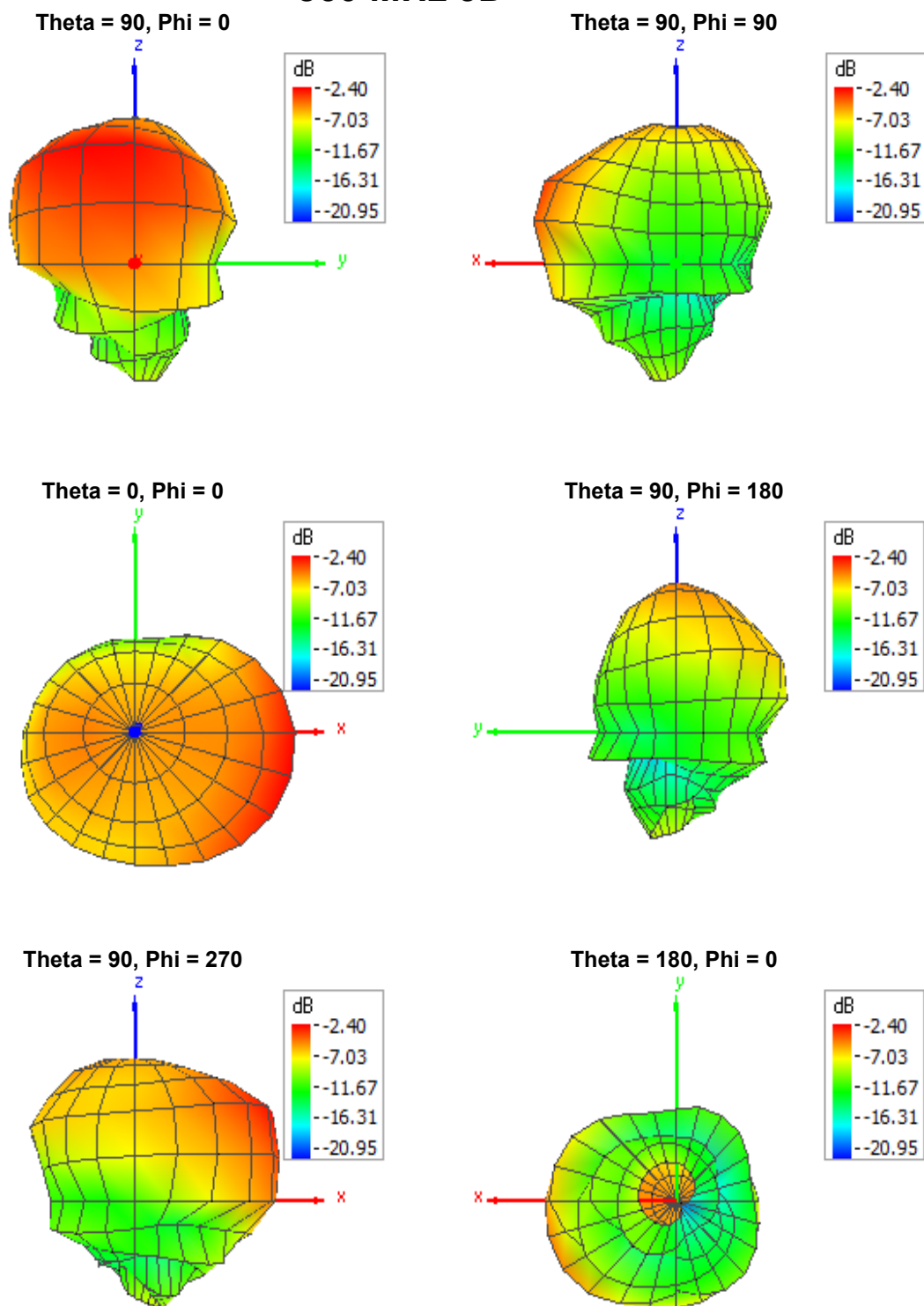
3. TEST RESULTS

3.1 Gain and Efficiency

| Frequency<br>(MHz) | Efficiency<br>(%) | Peak Gain<br>(dBi) |
|--------------------|-------------------|--------------------|
| 860.00             | 15.58             | -2.40              |
| 870.00             | 17.46             | -2.13              |
| 880.00             | 16.54             | -2.63              |
| 890.00             | 15.84             | -3.16              |
| 900.00             | 14.79             | -4.08              |
| 910.00             | 15.52             | -3.38              |
| 920.00             | 16.01             | -2.79              |
| 930.00             | 15.68             | -3.44              |

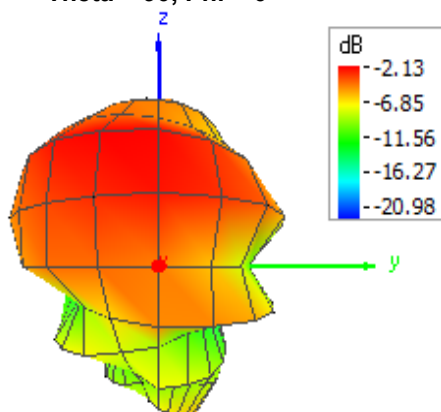
### 3.2 Radiation Pattern

#### 860 MHz 3D

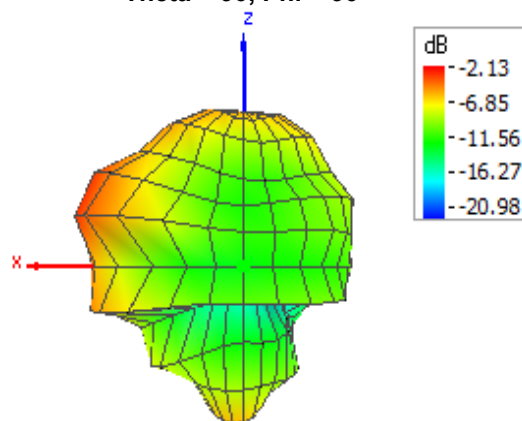


**870 MHz 3D**

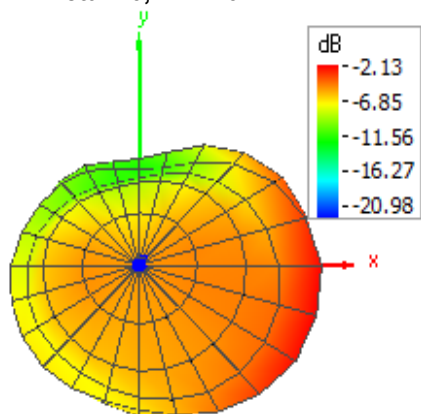
Theta = 90, Phi = 0



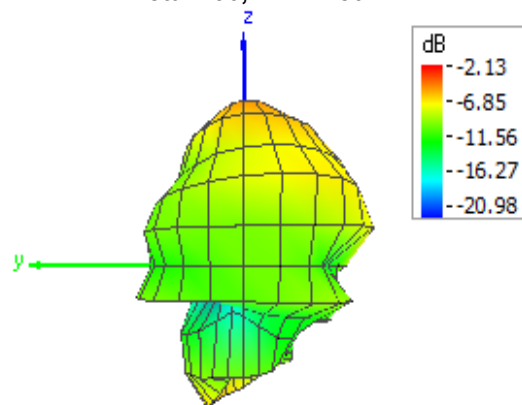
Theta = 90, Phi = 90



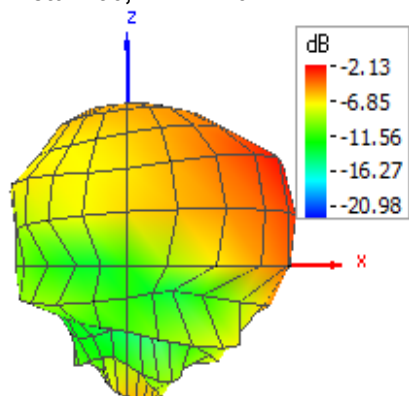
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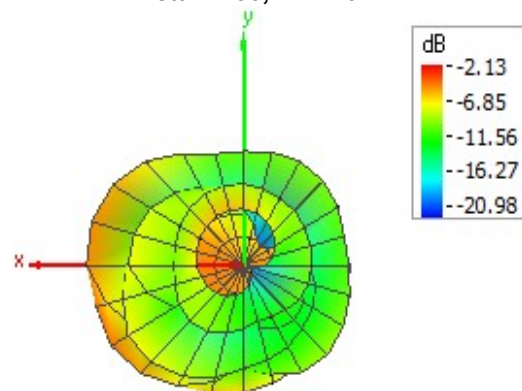
Theta = 90, Phi = 180



Theta = 90, Phi = 270

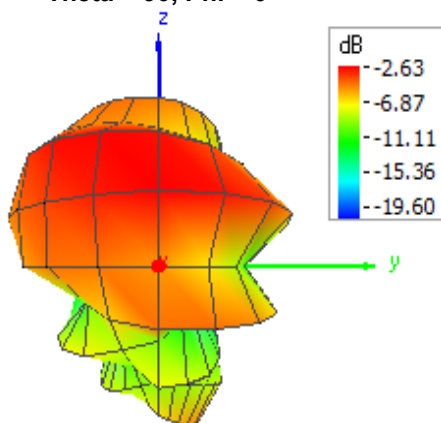


Theta = 180, Phi = 0

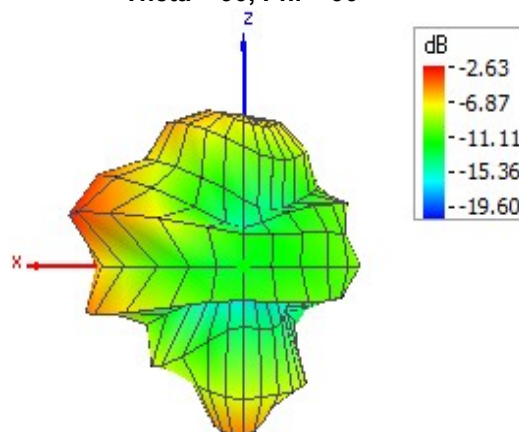


**880 MHz 3D**

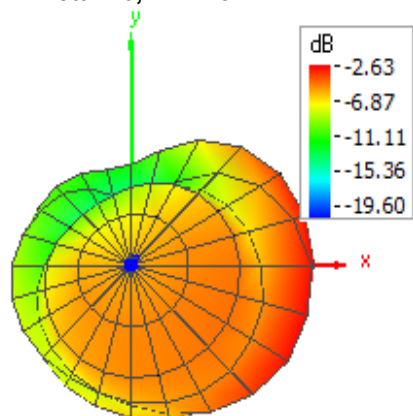
Theta = 90, Phi = 0



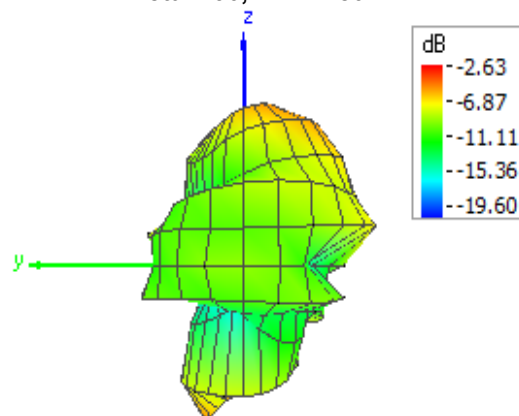
Theta = 90, Phi = 90



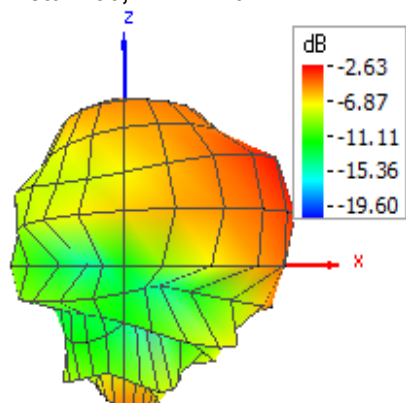
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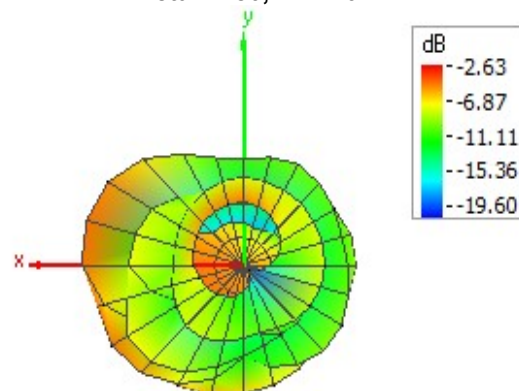
Theta = 90, Phi = 180



Theta = 90, Phi = 270

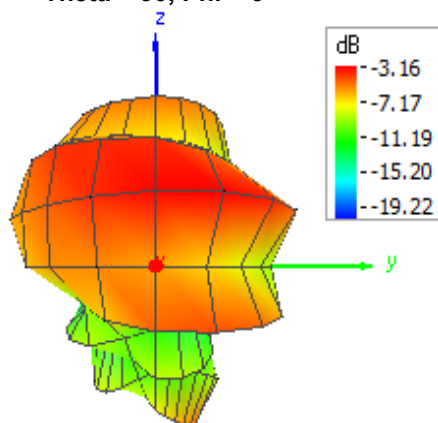


Theta = 180, Phi = 0

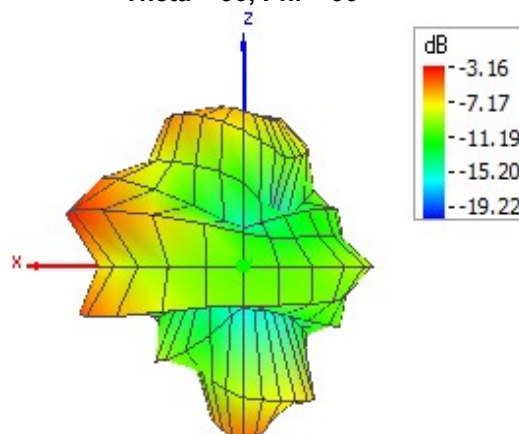


**890 MHz 3D**

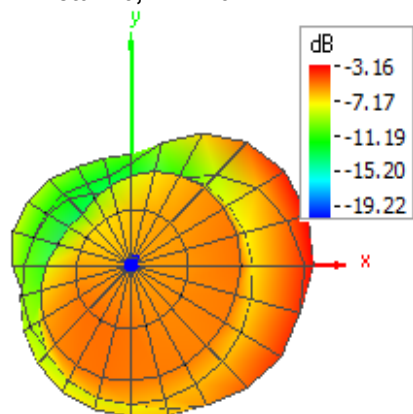
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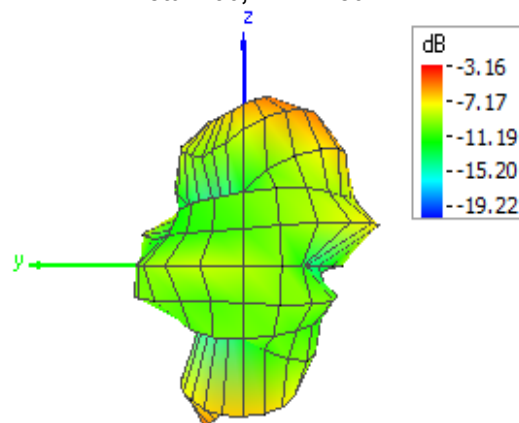
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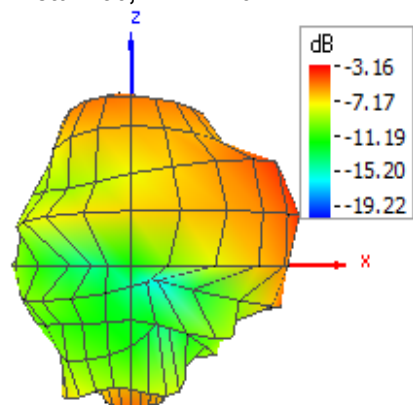
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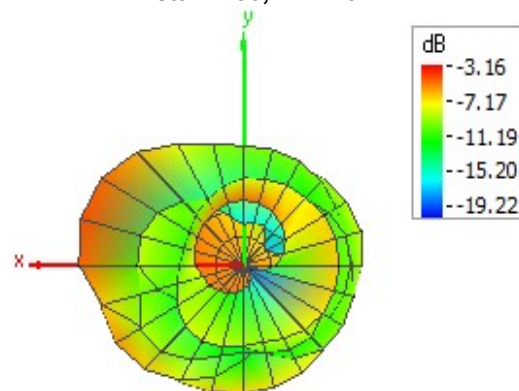
Theta = 90, Phi = 180



Theta = 90, Phi = 270

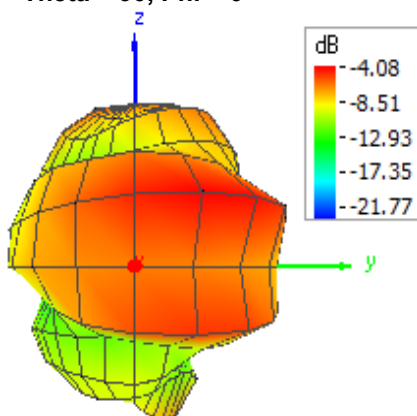


Theta = 180, Phi = 0

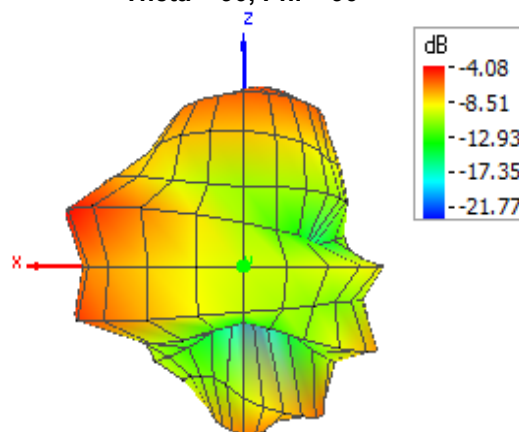


**900 MHz 3D**

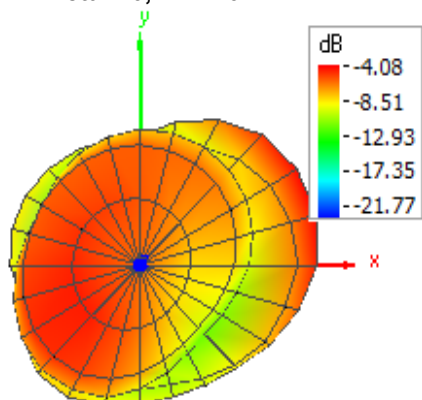
Theta = 90, Phi = 0



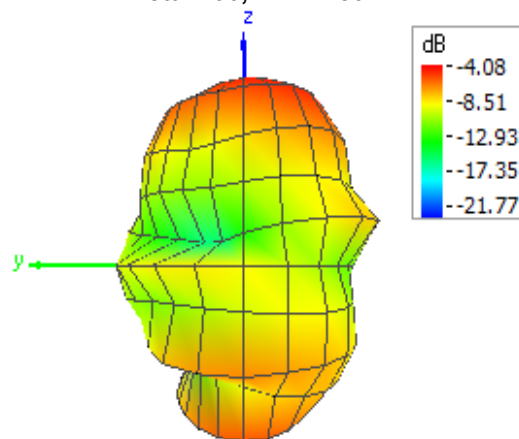
Theta = 90, Phi = 90



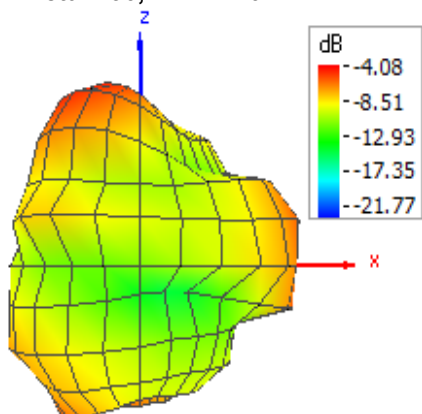
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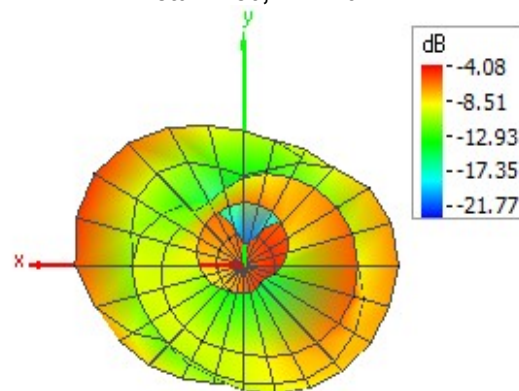
Theta = 90, Phi = 180



Theta = 90, Phi = 270

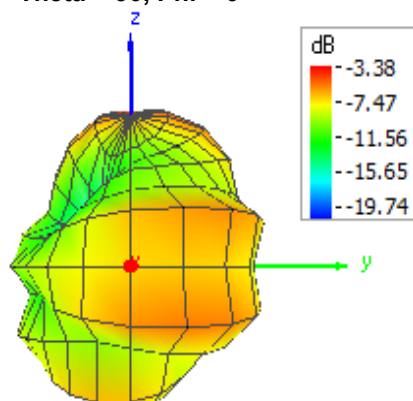


Theta = 180, Phi = 0

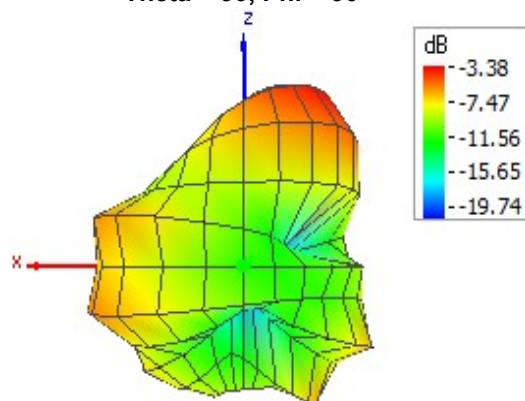


## 910 MHz 3D

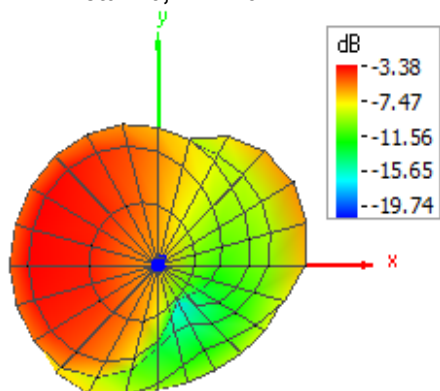
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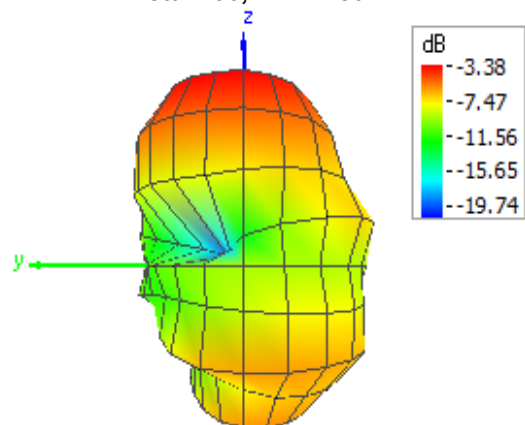
Theta = 90, Phi = 90



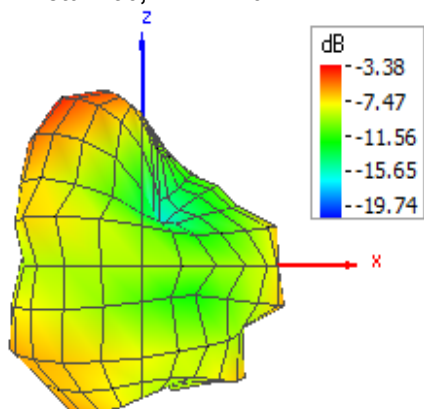
Theta = 0, Phi = 0



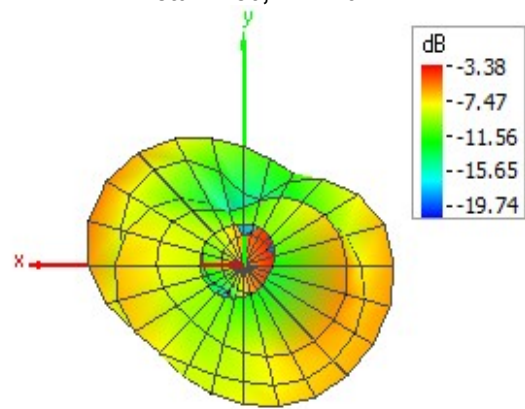
Theta = 90, Phi = 180



Theta = 90, Phi = 270

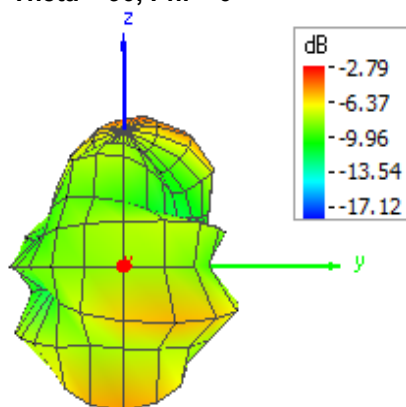


Theta = 180, Phi = 0

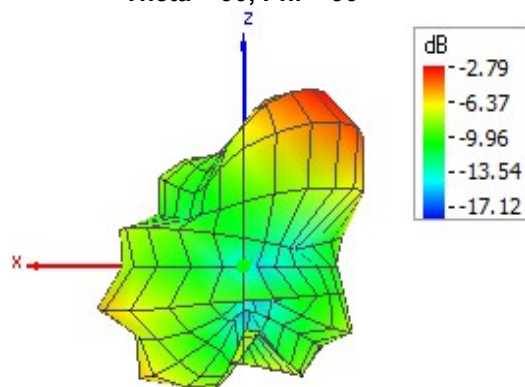


**920 MHz 3D**

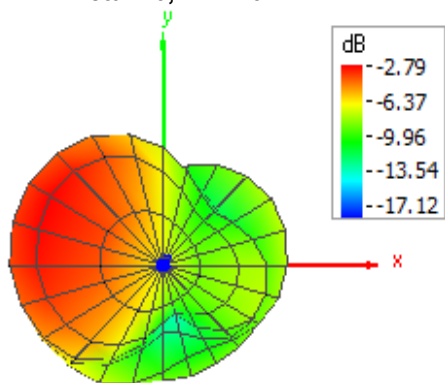
Theta = 90, Phi = 0



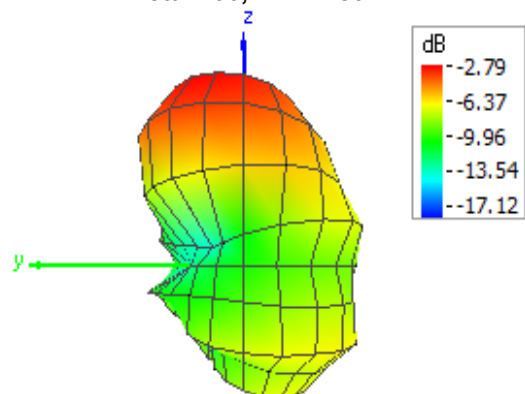
Theta = 90, Phi = 90



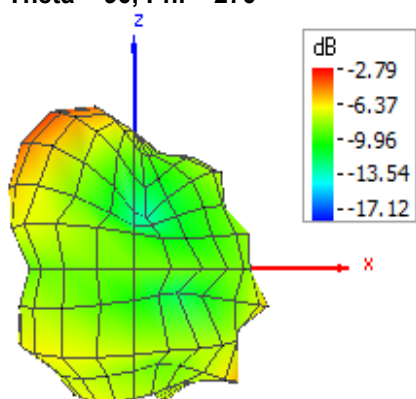
Theta = 0, Phi = 0



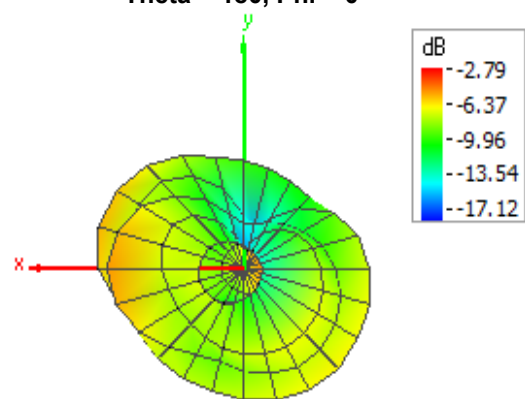
Theta = 90, Phi = 180



Theta = 90, Phi = 270

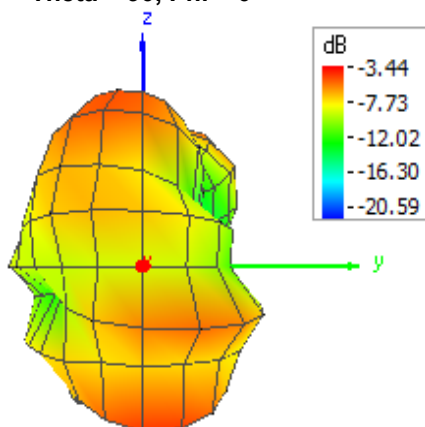


Theta = 180, Phi = 0

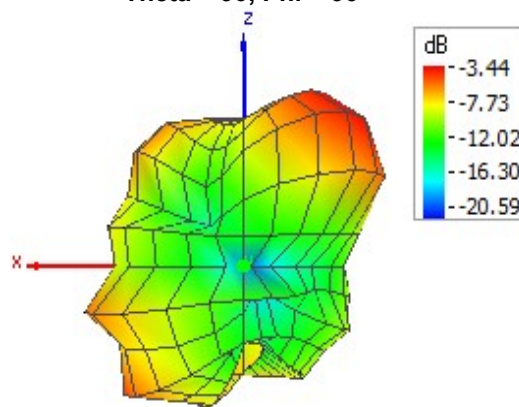


**930 MHz 3D**

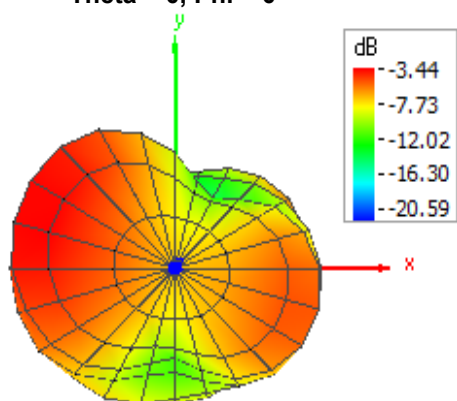
Theta = 90, Phi = 0



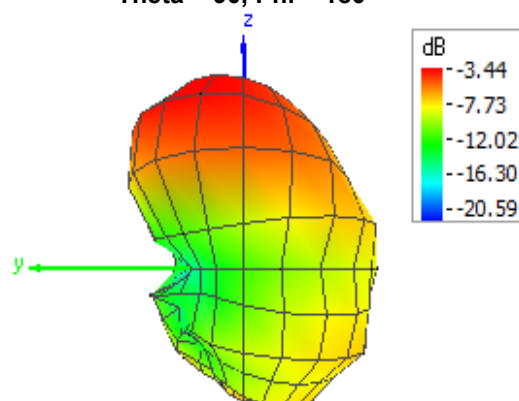
Theta = 90, Phi = 90



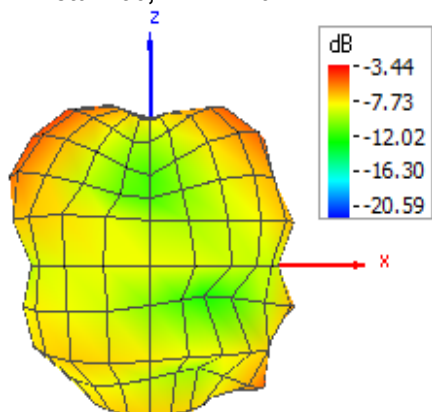
Theta = 0, Phi = 0



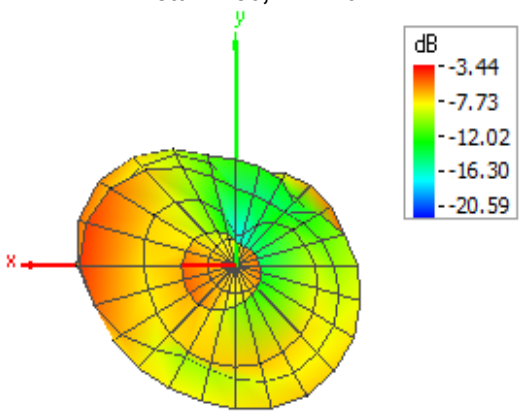
Theta = 90, Phi = 180



Theta = 90, Phi = 270



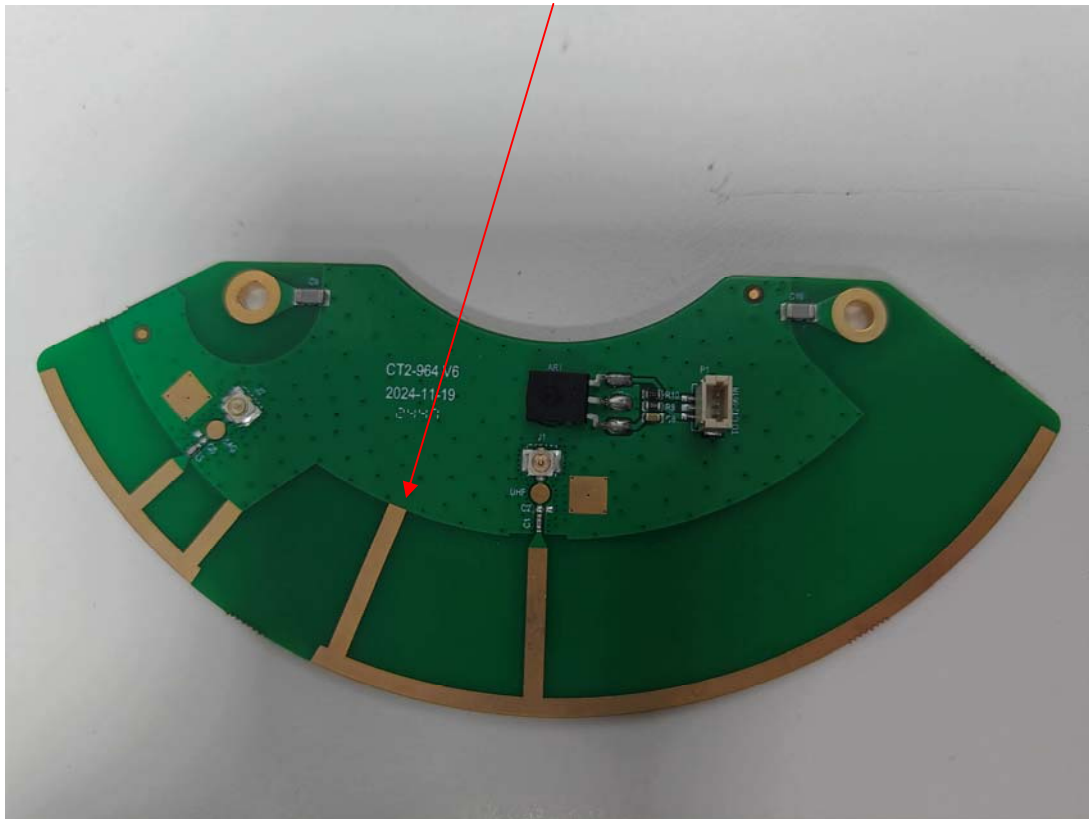
Theta = 180, Phi = 0



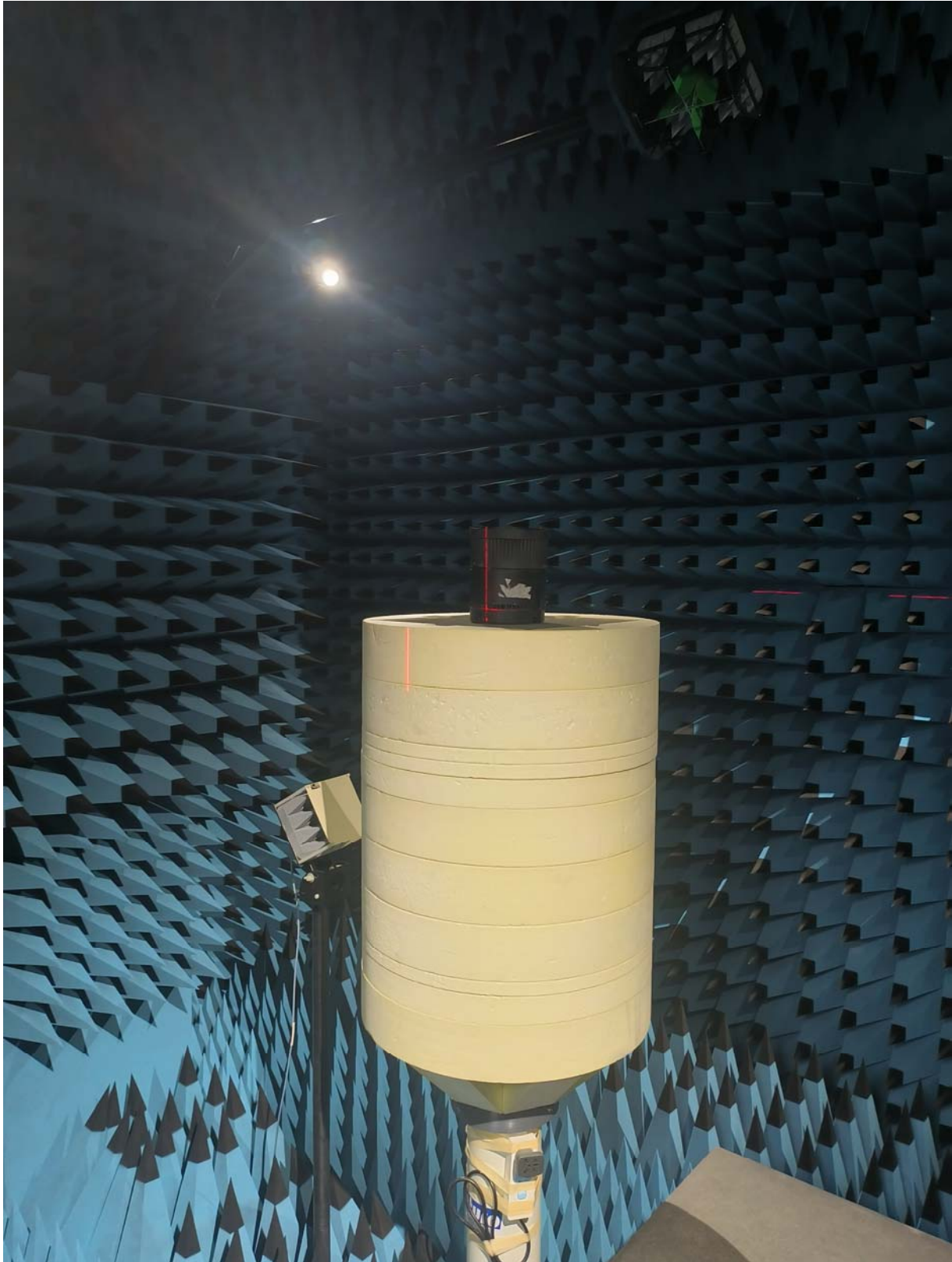
#### 4. EUT PHOTOGRAPHS

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Antenna



## 5. TEST SETUP PHOTOGRAPHS



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