

# OTA TEST REPORT

**Applicant**     Shenzhen DreamLNK Technology Co.,Ltd.

**Product**       2.4G/5G Wi-Fi Glue stick antenna

**Model**          DL-J004

**Report No.**     R2412A1868-T1V1

**Issue Date**     May 14, 2025

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **ANSI/IEEE Std 149-2021**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

*Prepared by: Wei Fangying*

*Approved by: Xu Kai*

---

**Eurofins TA Technology (Shanghai) Co., Ltd.**

*Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China*

*TEL: +86-021-50791141/2/3*

*FAX: +86-021-50791141/2/3-8000*

## TABLE OF CONTENTS

1.	Test Laboratory .....	4
1.1.	Notes of the Test Report.....	4
1.2.	Test Facility .....	4
1.3.	Testing Location.....	4
1.4.	Laboratory Environment .....	4
2.	General Description of Equipment Under Test .....	5
2.1.	Applicant and Manufacturer Information.....	5
2.2.	General Information .....	5
2.3.	Test Date.....	5
2.4.	Received Date .....	5
2.5.	Applied Standards.....	6
3.	Test Conditions.....	7
3.1.	Test Configuration.....	7
3.2.	Test Measurement .....	7
4.	Test Results.....	8
4.1.	Gain and Efficiency .....	8
5.	Equipment List.....	9
	ANNEX A: 3-D Pattern Plots.....	10
	ANNEX B: The EUT Appearance and Test Configuration .....	12
	Test Configuration .....	12

Version	Revision Description	Issue Date
Rev.0	Initial issue of report.	April 7, 2025
Rev.1	Updated information.	May 14, 2025
Note: This revised report (Report No.: R2412A1868-T1V1) supersedes and replaces the previously issued report (Report No.: R2412A1868-T1). Please discard or destroy the previously issued report and dispose of it accordingly.		

## 1. Test Laboratory

### 1.1. Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **Eurofins TA Technology (Shanghai) Co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

### 1.2. Test Facility

#### A2LA (Certificate Number: 3857.01)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

### 1.3. Testing Location

Company: Eurofins TA Technology (Shanghai) Co., Ltd.  
Address: Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China  
City: Shanghai  
Post code: 201201  
Country: P. R. China  
Contact: Xu Kai  
Telephone: +86-021-50791141/2/3  
Fax: +86-021-50791141/2/3-8000  
Website: <https://www.eurofins.com/electrical-and-electronics>  
E-mail: Kain.Xu@cpt.eurofinscn.com

### 1.4. Laboratory Environment

Temperature	15°C ~ 35°C	
Relative humidity	20% ~ 80%	
Shield effect	0.7-6GHz	> 100dB
Ground resistance	<0.5Ω	

## 2. General Description of Equipment Under Test

### 2.1. Applicant and Manufacturer Information

<b>Applicant Name</b>	Shenzhen DreamLNK Technology Co.,Ltd.
<b>Applicant address</b>	602, Block C, Huameju Area A, Xinhua Road, Baoan District, Shenzhen
<b>Manufacturer Name</b>	Shenzhen DreamLNK Technology Co.,Ltd.
<b>Manufacturer address</b>	602, Block C, Huameju Area A, Xinhua Road, Baoan District, Shenzhen

### 2.2. General Information

EUT Description	
Product Name:	2.4G/5G Wi-Fi Glue stick antenna
Model	DL-J004
HW Version:	/
SW Version:	/
Antenna Type:	External Antenna
Antenna Connector	RPSMA-K
Antenna Manufacturer:	Shenzhen DreamLNK Technology Co.,Ltd.
Test Frequency:	2400MHz ~ 2500MHz; 5150MHz ~ 5850MHz
<p>Note: The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant.</p> <p>All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.</p>	

### 2.3. Test Date

The test is performed from December 11, 2024.

### 2.4. Received Date

The sample was received on December 2, 2024.

## 2.5. Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test Method: **ANSI/IEEE Std 149-2021**

### 3. Test Conditions

#### 3.1. Test Configuration

Great-Circle-Cut method is used to measure the antenna 3D GAIN of EUT in OTA qualified anechoic chamber. Equipment Under Test (EUT) geometry centre vertical projection at the centre of platform, the distance from EUT to measurement antenna is 5m.

#### 3.2. Test Measurement

##### Spherical coordinate system

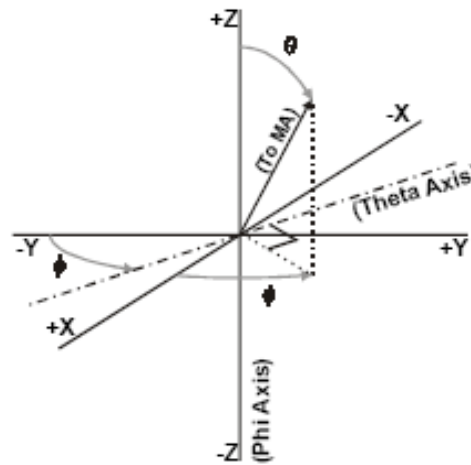
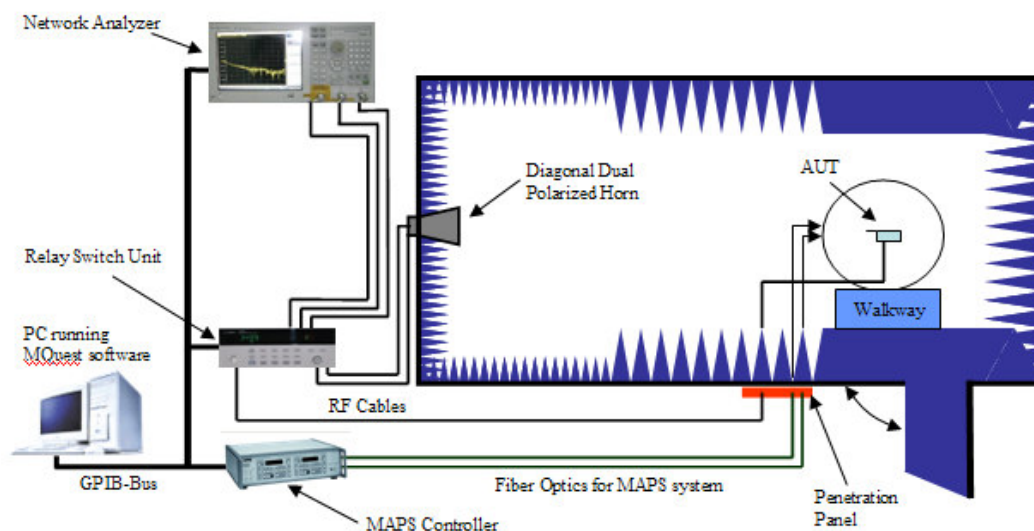


Figure 1 Test coordinate system

Note: Theta is from 0~180 degree. Phi is from 0~360. Rotate the EUT and record the Data, the step of rotation is 15 degree.

##### Test Setup



## 4. Test Results

### 4.1. Gain and Efficiency

Model	Test State	Frequency (MHz)	Efficiency (%)	Gain (dBi)	Note
DL-J004	Free Space	2400	86.90	4.05	/
		2410	82.18	4.17	
		2420	73.78	3.70	
		2430	71.64	3.67	
		2440	77.00	4.03	
		2450	79.15	4.17	
		2460	82.74	4.28	
		2470	81.71	4.42	
		2480	84.00	4.44	
		2490	84.82	4.23	
		2500	83.81	4.17	
		5150	79.33	4.53	/
		5200	81.18	4.44	
		5250	78.17	4.43	
		5300	74.96	4.59	
		5350	75.10	4.77	
		5400	74.22	4.58	
		5450	73.64	4.76	
		5500	74.89	4.80	
		5550	72.83	5.36	
		5600	71.45	5.13	
		5650	69.12	5.10	
		5700	69.15	5.42	
		5750	69.68	5.62	
		5800	66.26	5.23	
		5850	63.07	4.60	



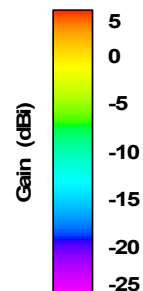
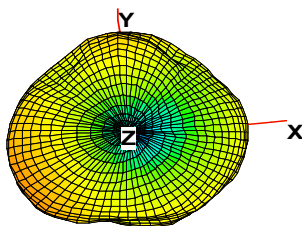
## 5. Equipment List

• Type of Equipment	Manufacturer	Model	SN	Version	Calibration Date	Expiration Time
Anechoic Chamber	ETS	AMS-8500	CT-001157-1219	/	2020-05-17	2025-05-16
Test Software	ETS	EMQuest™	1464	REV 1.17	/	/
EMCenter_Switch Control System	ETS	7006/7001	00059957/MY42001152	/	/	/
Diagonal Dual Polarized Horn	ETS	ETS 3164-04	00062743	/	2024-03-09	2029-03-08
Network Analyzer	Keysight	E5071B	MY42404014	REV.A.0 6.50	2024-05-07	2025-05-06

# ANNEX A: 3-D Pattern Plots

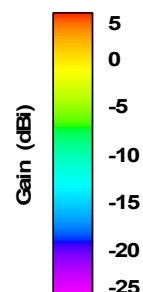
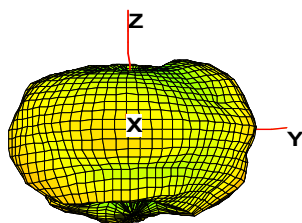
Total

Azimuth = -5.0  
Elevation = 1.7  
Roll = -2.4



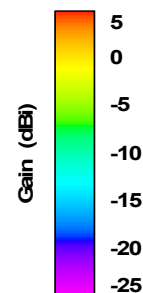
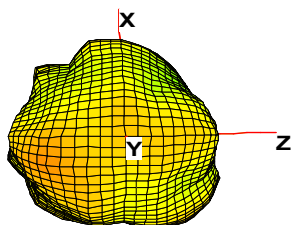
Total

Azimuth = 88.7  
Elevation = -1.3  
Roll = -96.3



Total

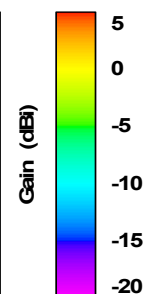
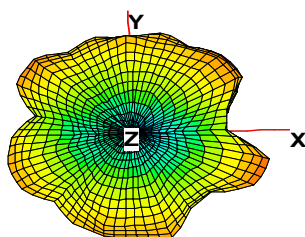
Azimuth = 128.4  
Elevation = -88.3  
Roll = -140.8



2.4GHz ~ 2.5GHz 3D Gain

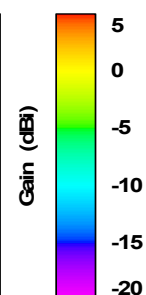
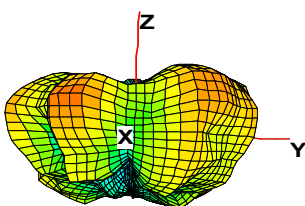
Total

Azimuth = -2.2  
Elevation = 2.4  
Roll = -2.4



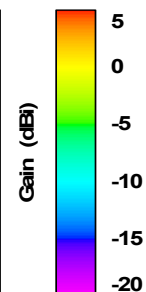
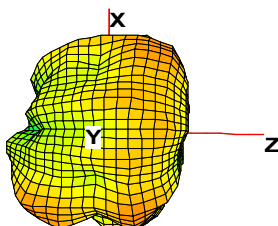
Total

Azimuth = 91.7  
Elevation = -4.6  
Roll = -93.0



Total

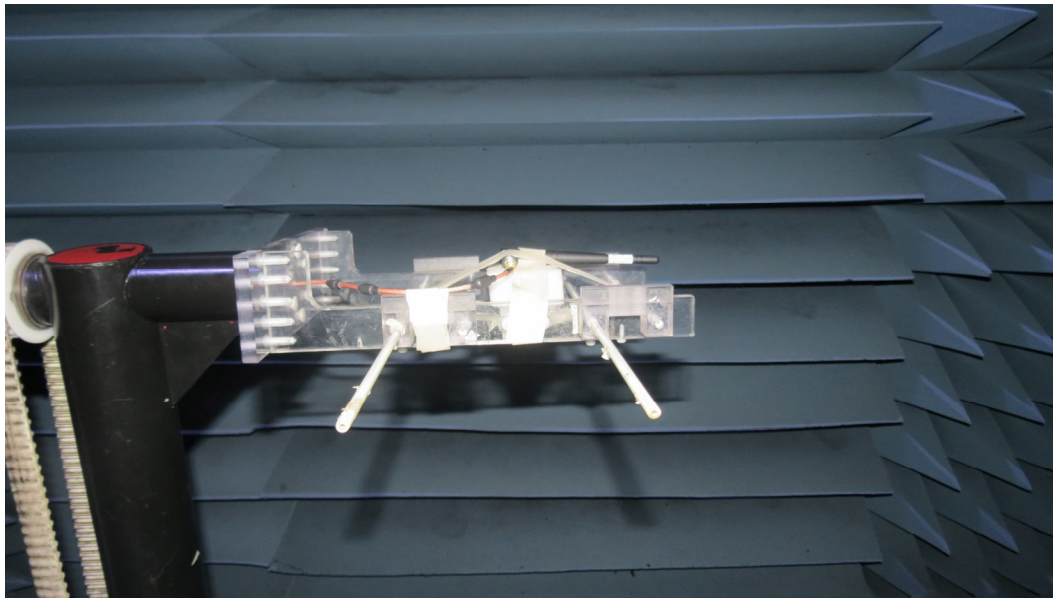
Azimuth = -71.7  
Elevation = -83.5  
Roll = 17.4



5.15GHz ~ 5.85GHz 3D Gain

## ANNEX B: THE EUT APPEARANCE AND TEST CONFIGURATION

### Test Configuration



Picture 1 Test Setup

\*\*\*\*\*END OF REPORT \*\*\*\*\*