

# Antenna Test Report

**Test Standard:** GB/T9401-2008;ANSI/IEEE 149-1979

**Manufacturer:** Dongguan Qianhe Electronic Technology Co., Ltd.

**Product Name:** DuoGlow

**Model:** SL278U

**Report No.:** SSP25082018A

**Tested Date:** 2025-08-12

**Issued Date:** 2025-08-20

**Tested By:** William Liu (Engineer)

**Approved By:** Lahm Peng (Manager)

**Prepared By:**

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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen ZRLK Testing Technology Co.,Ltd.

# 1. General Information

## 1.1 Product Information

|                          |                                                                                       |
|--------------------------|---------------------------------------------------------------------------------------|
| Manufacturer             |                                                                                       |
| Manufacturer:            | Dongguan Qianhe Electronic Technology Co., Ltd.                                       |
| Address of Manufacturer: | Building 3, No. 3, Chang'an Fengsheng Road, Chang'an Town, Dongguan, Guangdong, China |

|                                |                 |
|--------------------------------|-----------------|
| General Description of Antenna |                 |
| Product Name:                  | DuoGlow         |
| Model No.:                     | SL278U          |
| Frequency Range:               | 2400-2500MHz    |
| Type of Antenna:               | PCB Antenna     |
| Antenna Gain:                  | -8.39dBi (Max.) |
| Impedance:                     | 50 ohm          |

Antenna



## 1.2 Test Methodology

All measurements contained in this report were conducted with standards IEEE 149-1979 for IEEE Standard Test Procedures for Antennas.

## 1.3 Test Facilities

|                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Testing Lab: ShenzhenZRLK Testing Technology Co., Ltd.                                                                                                                                                                    |
| All measurement facilities used to collect the measurement data are located at 1F, No. 35 Building, Changxing Technology Industrial Park, Yutang Street, Guangming New District, Shenzhen City, Guangdong Province, China |

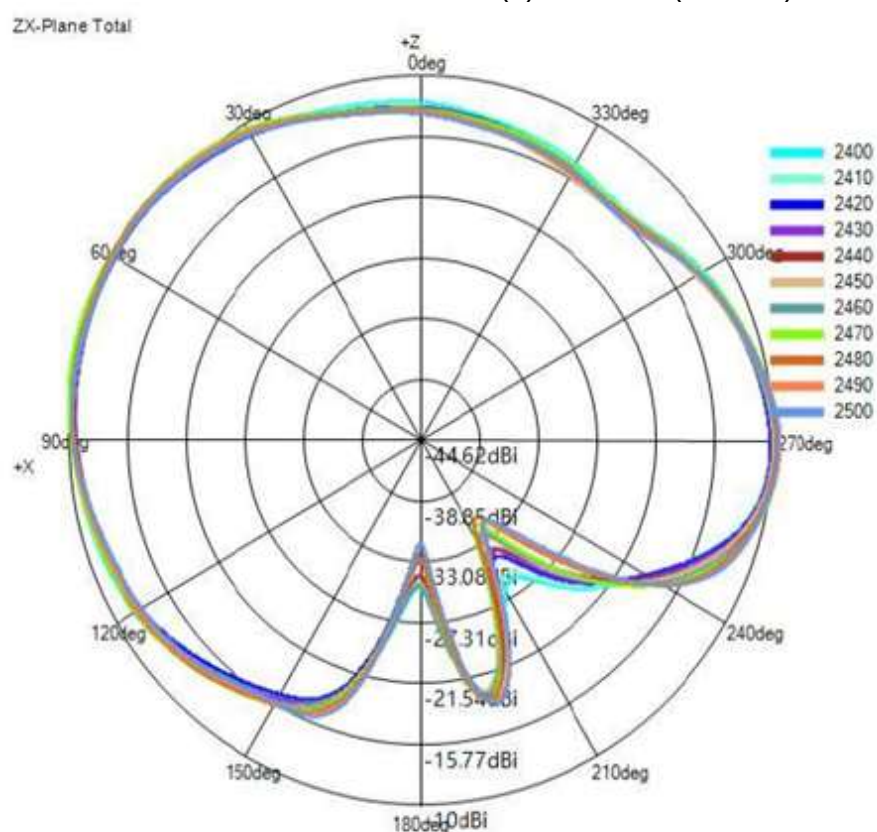
## 2. OTA Test

### 2.1 Gain

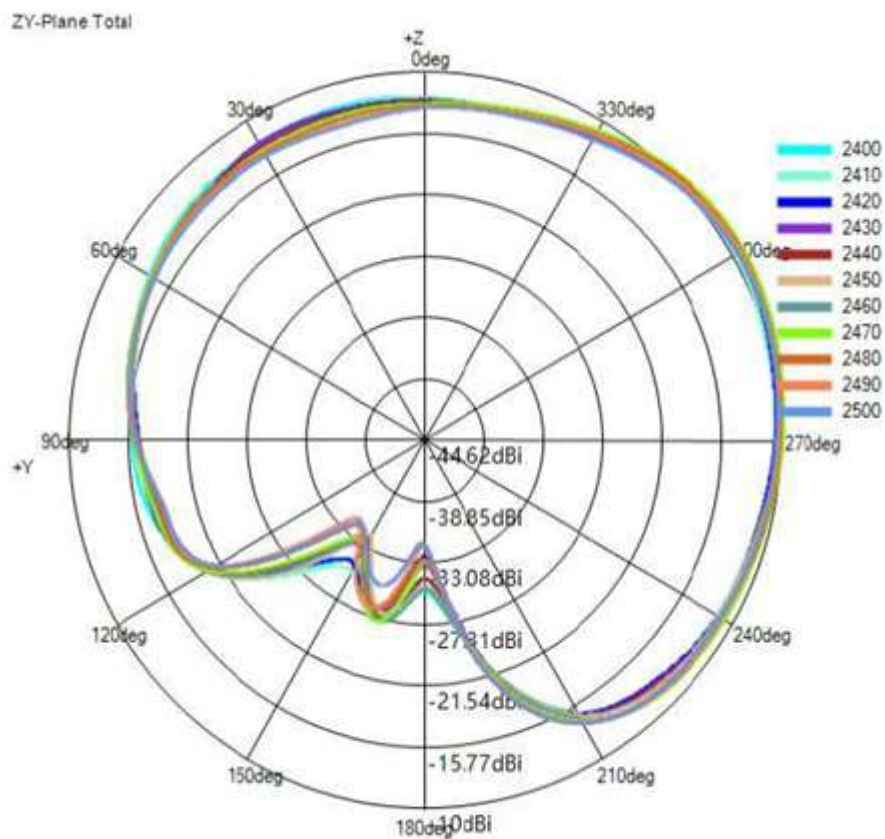
| Frequency/MHz | 2400  | 2410  | 2420  | 2430  | 2440  | 2450  | 2460  | 2470  | 2480  | 2490  | 2500  |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Peak Gain/dBi | -8.95 | -9.22 | -9.09 | -8.85 | -8.67 | -8.65 | -8.50 | -8.39 | -8.48 | -8.43 | -8.59 |
| Efficiency/%  | 5.94  | 5.76  | 5.70  | 5.84  | 5.92  | 5.89  | 6.21  | 6.43  | 6.12  | 6.00  | 5.88  |

### 2.2 Radiation Pattern View

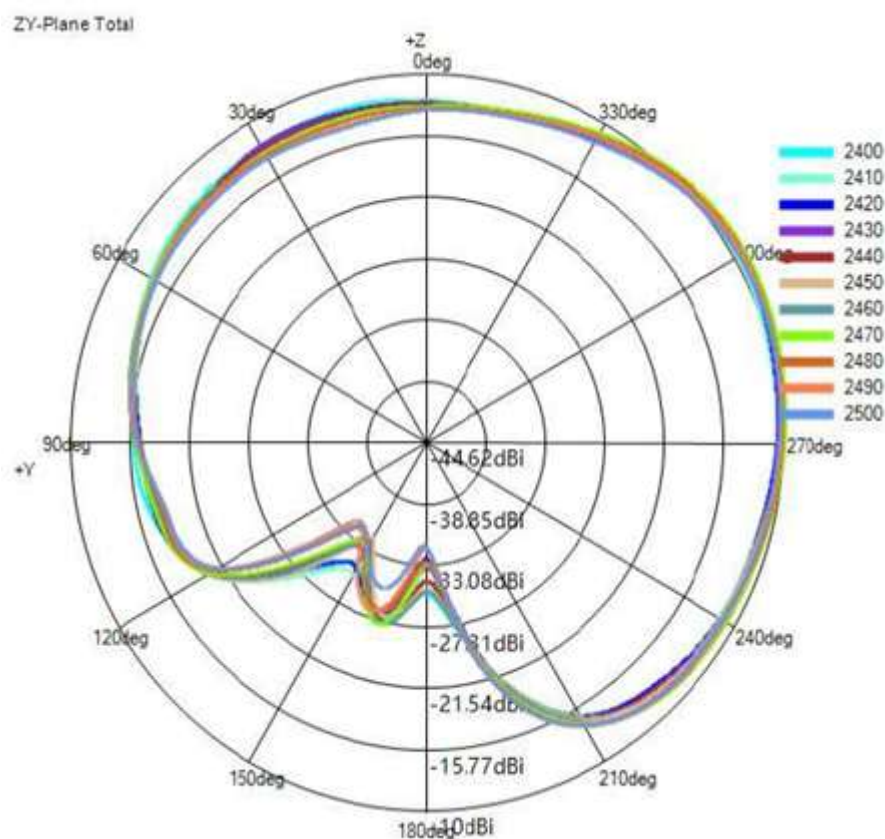
(1) X-Z Plane(unit:dBi):



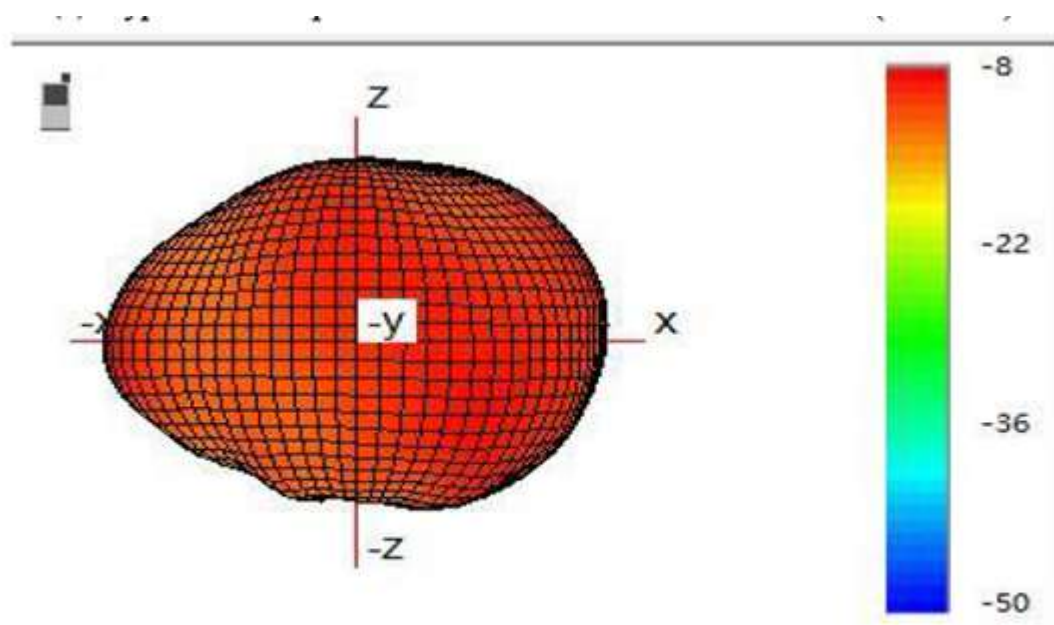
(2) Y-Z Plane(unit:dBi):



(3)X-Y Plane(unit:dBi):



(4) Typical Free Space 3D Radiation Pattern at 2.47GHz(unit:dBi):



End