

# Antenna Test Report

**Report No.** : SSP24020117-1E

**Manufacturer** : Shenzhen Loyal Electronics Co., Ltd.

**Product Name** : 2.4GHz Antenna

**Model Name** : D1036E10Z

**Test Standard** : IEEE 149-1979

**Tested Date** : 2024-03-26

**Issued Date** : 2024-04-02

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

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



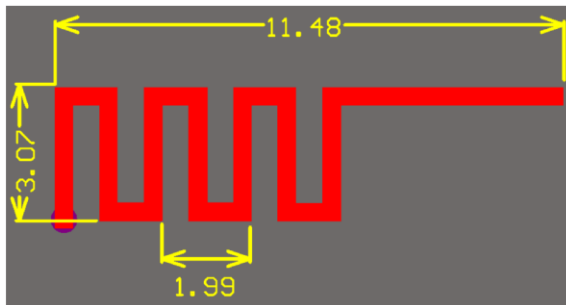
**Shenzhen CCUT Quality Technology Co., Ltd.**

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## 1. General Information

### 1.1 Product Information

|                          |                                                                                                                           |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Manufacturer:            | Shenzhen Loyal Electronics Co., Ltd.                                                                                      |
| Address of Manufacturer: | No.5, First Industry Park, Shanmen Songgang, Baoan, Shenzhen, Guangdong, China                                            |
| Product Name:            | 2.4GHz Antenna                                                                                                            |
| Model Name:              | D1036E10Z                                                                                                                 |
| Frequency Range:         | 2400MHz - 2483.5MHz                                                                                                       |
| Type of Antenna:         | PCB Antenna                                                                                                               |
| Antenna Gain:            | 0dBi (Max.)                                                                                                               |
| Impedance:               | 50 ohm                                                                                                                    |
| Antenna View:            | <p>Antenna Photo &amp; Length(mm)</p>  |

### 1.2 Test Standard

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

### 1.3 Test Facilities

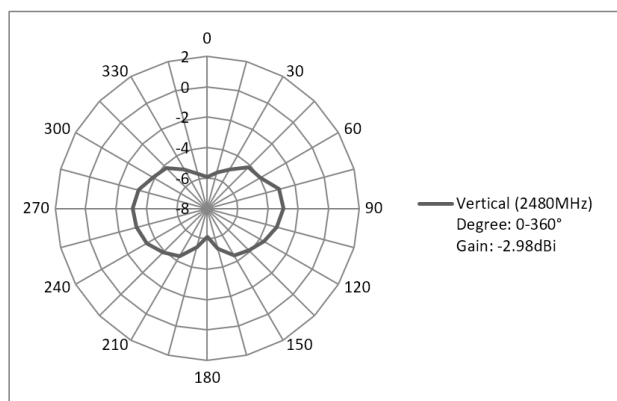
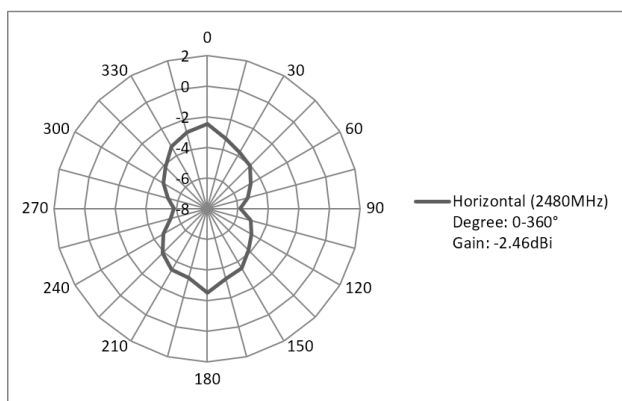
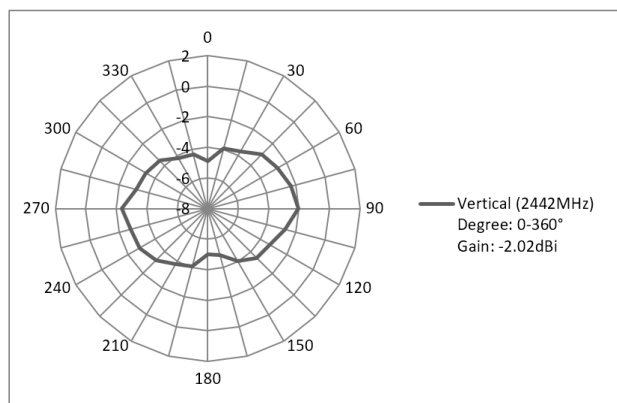
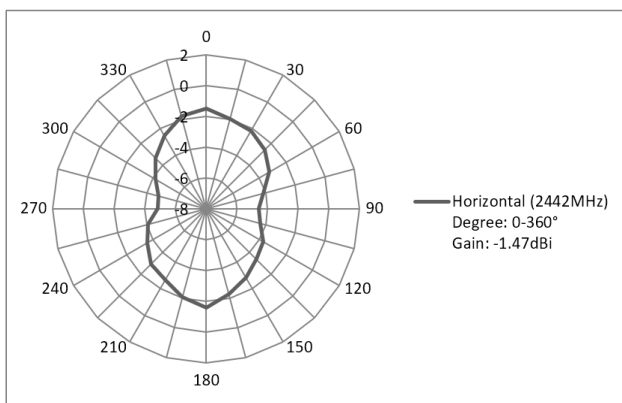
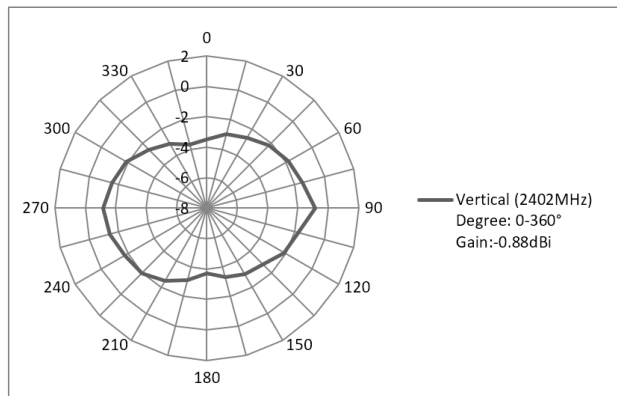
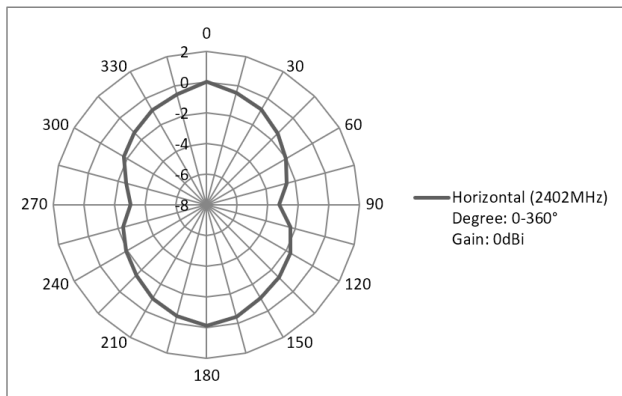
|                                                                                                                                                                                                      |                                                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Laboratory Name:                                                                                                                                                                                     | <b>Shenzhen CCUT Quality Technology Co., Ltd.</b><br>1F, Building 35, Changxing Technology Industrial Park, Yutang Street,<br>Guangming District, Shenzhen, Guangdong, China |
| All measurement facilities used to collect the measurement data are located at 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China. |                                                                                                                                                                              |

## 2. OTA Test

### 2.1 Gain

| Frequency | Peak Gain (dBi) | Polarity   |
|-----------|-----------------|------------|
| 2402MHz   | 0               | Horizontal |
| 2402MHz   | -0.88           | Vertical   |
| 2442MHz   | -1.47           | Horizontal |
| 2442MHz   | -2.02           | Vertical   |
| 2480MHz   | -2.46           | Horizontal |
| 2480MHz   | -2.98           | Vertical   |

## 2.2 Radiation Pattern View



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