

Test Report Prepared for Godox Project

Author Ken

Date 2024.5.10

Client Information

| | |
|--------------------|--|
| Client | 神牛(Godox) |
| Engineer of Client | |
| Project Name | |
| Project Stage | <input type="checkbox"/> Evaluation <input checked="" type="checkbox"/> EVT <input type="checkbox"/> DVT <input type="checkbox"/> PVT |
| Antenna Type | Chip antenna |
| Antenna Band | 2400~2500MHz |
| Antenna Engineer | Ken |

Tuning Note

| Version | Date | Revision Description | Designer |
|---------|-----------|----------------------|----------|
| 01 | 2024/5/10 | Version 1 | Ken |
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Antenna Info

| Product name | Material | Dimension | Feed-In Location | PIN Length |
|--------------|----------|---------------|------------------|------------|
| PCAK0000-10 | / | 5.0×2.0×1.0mm | / | / |

1. Test Content :

BT Antenna in pattern measurement

2. Test Item :

Efficiency 、 Radiation Pattern 、 Total Gain 、 Average Gain

3. Test Setting :

Network Analyzer : Agilent E5071C

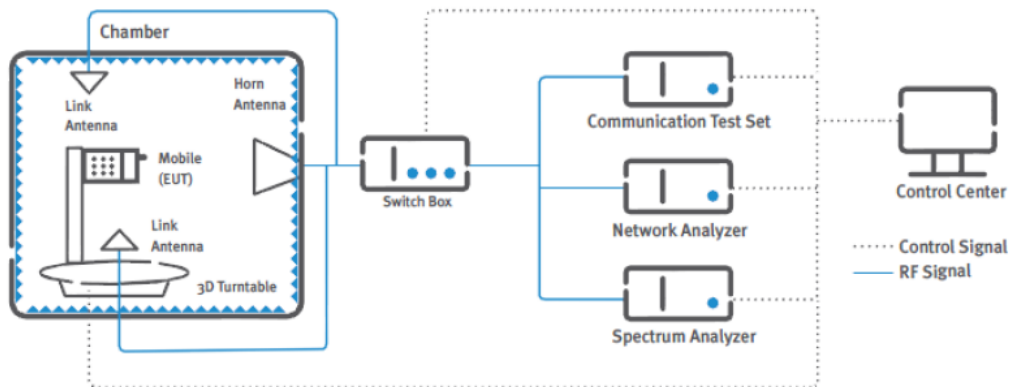
Source Antenna : Dual Polarization Horn Antenna

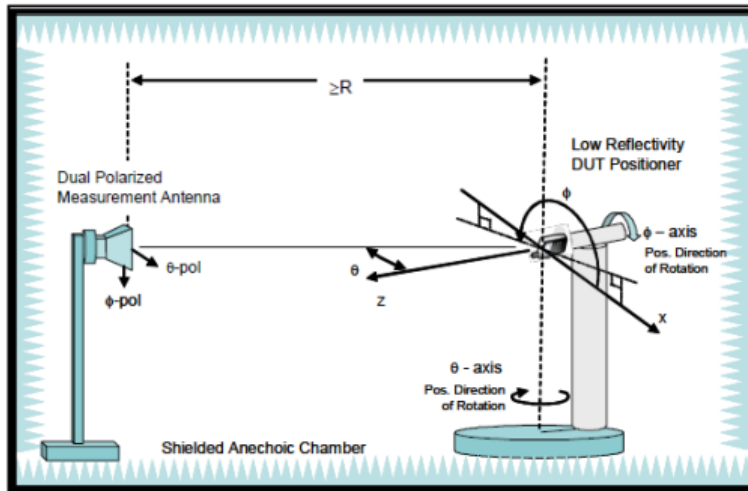
Test Frequency : 2400~2500MHz

4. Test Environment :

Room temperature : 22°C Humidity : 31%

5. Test Schematic Drawing of Setting :



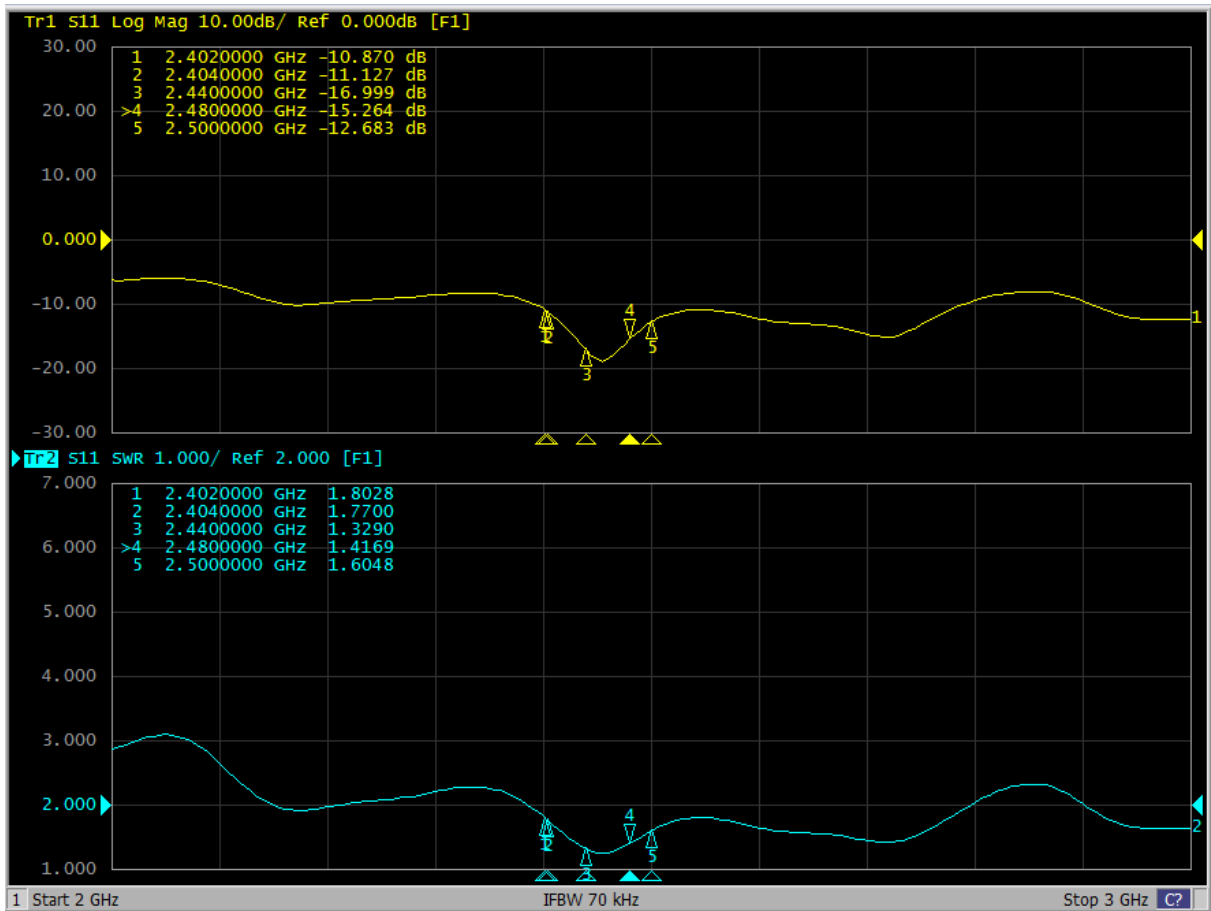


6. Test Data

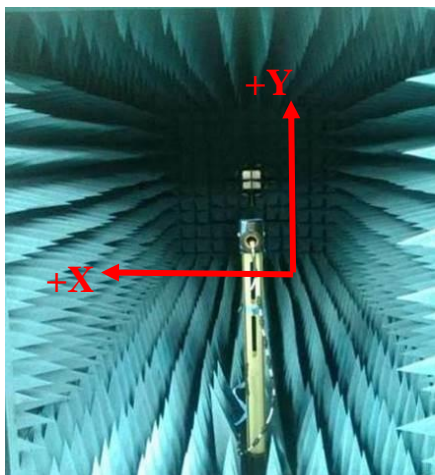
Environment



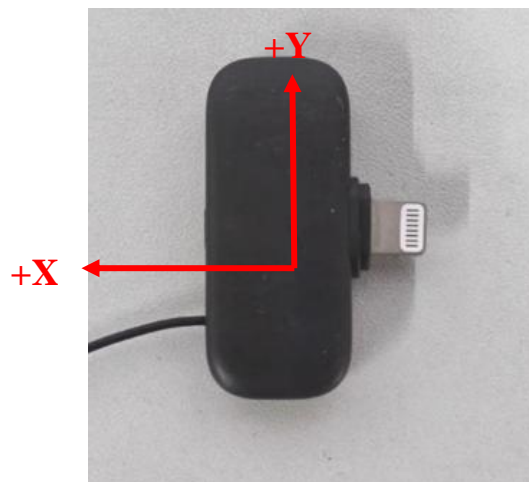
Antenna S11 Return Loss Measurement



Coordinate

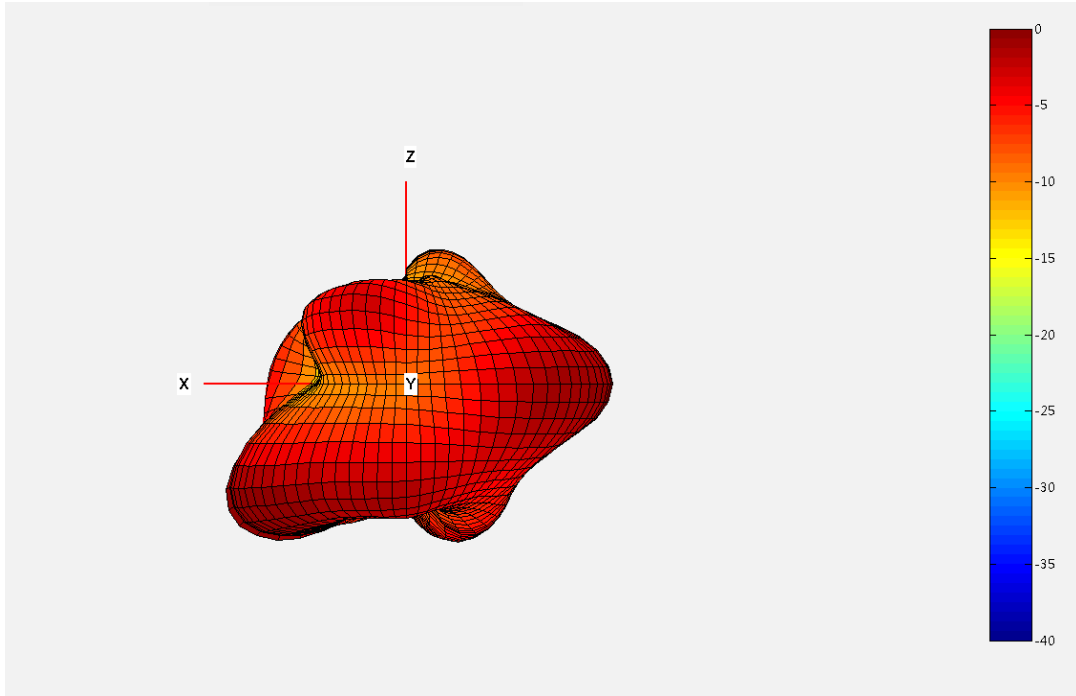


Chamber coordinate

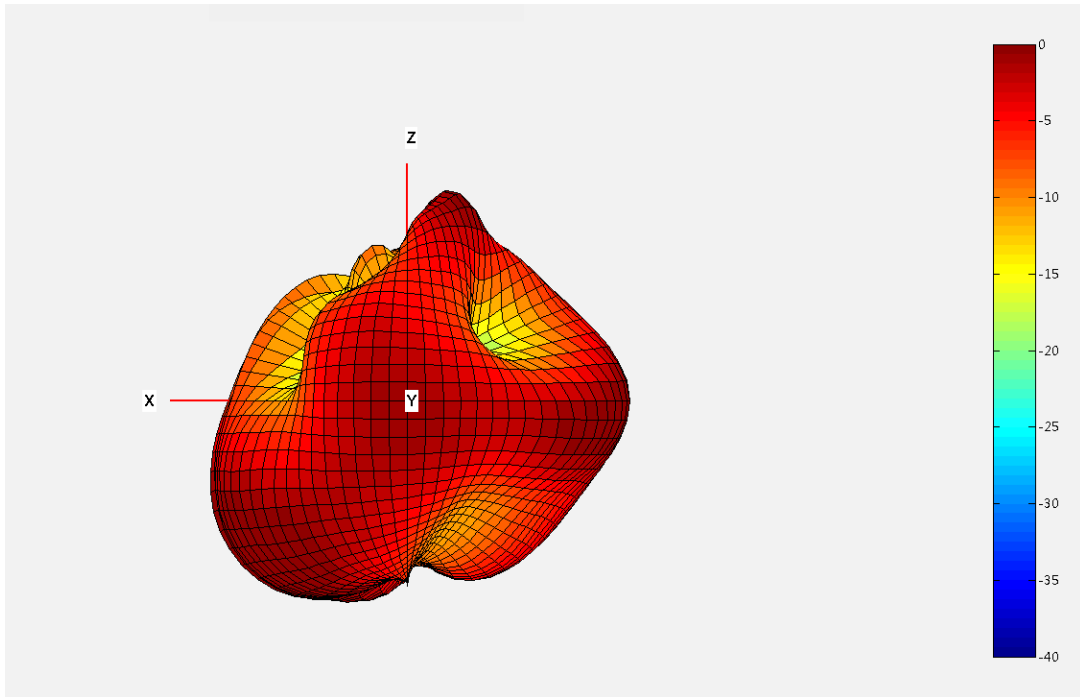


Antenna mounted on chamber coordinate

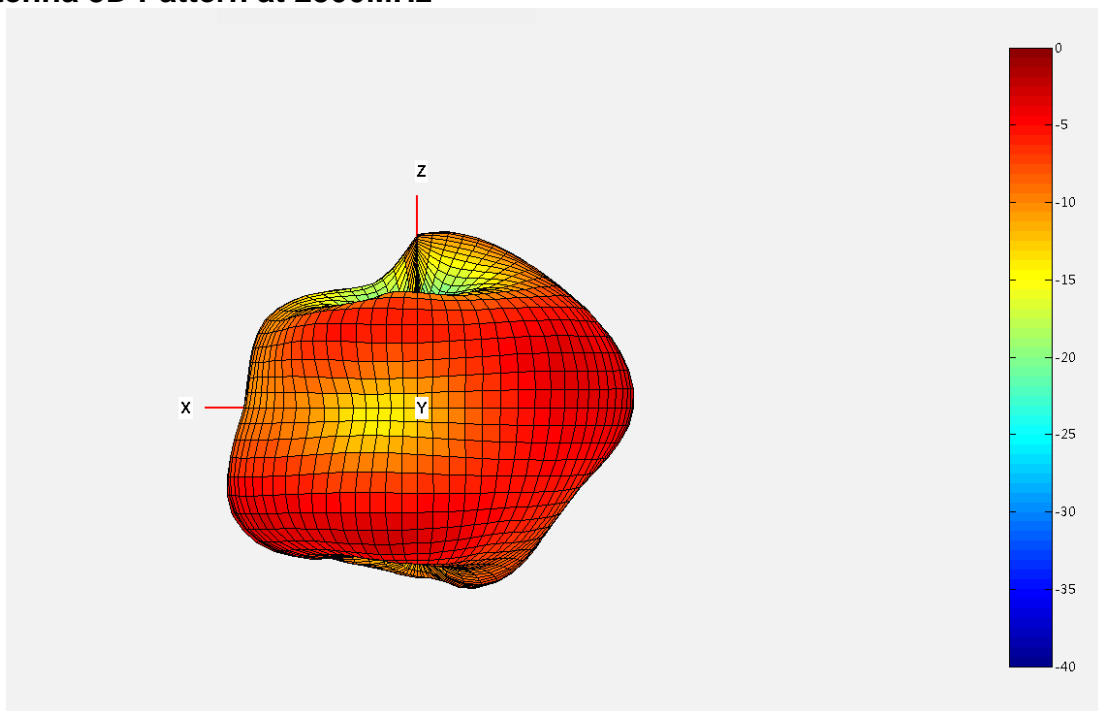
Radiation Pattern
Antenna 3D Pattern at 2400MHz



Antenna 3D Pattern at 2450MHz



Antenna 3D Pattern at 2500MHz



Measurements summary

| Frequency | Efficiency (dB) | Efficiency (%) | Gain (dBi) |
|-----------|-----------------|----------------|------------|
| 2402MHz | -4.13 | 38.64 | -0.29 |
| 2404MHz | -3.92 | 40.55 | -0.24 |
| 2440MHz | -3.73 | 42.36 | -0.22 |
| 2441MHz | -3.75 | 42.17 | -0.22 |
| 2472MHz | -3.9 | 40.74 | -0.26 |
| 2480MHz | -3.89 | 40.83 | -0.33 |

Chip antenna /5.0*2.0*1.0 mm/2400-2500MHz

