

BT Antenna Test Report Prepared for Godox Project

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Client Information

Client	神牛 (Godox)
Engineer of Client	
Project Name	RD23091
Project Stage	☐ Evaluation ☒ EVT ☐ DVT ☐ PVT
Antenna Type	Linear Polarization
Antenna Band	2400~2500MHz
Antenna Engineer	ken

Tuning Note

Version	Date	Revision Description	Designer
01	2025/3/31	Version 1	Ken

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

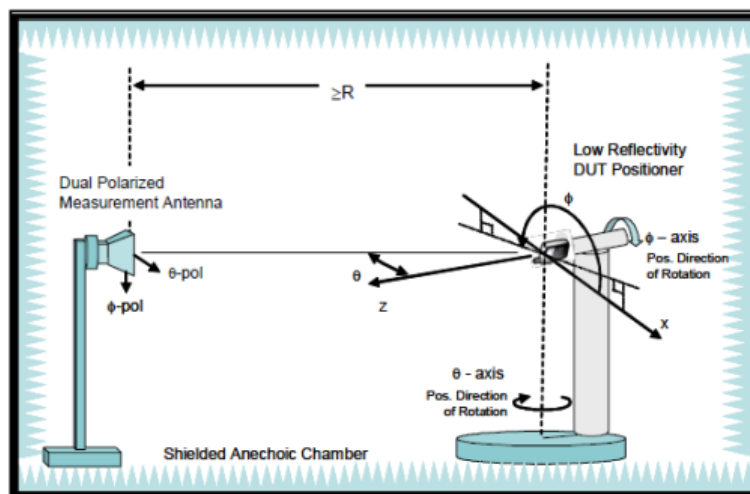
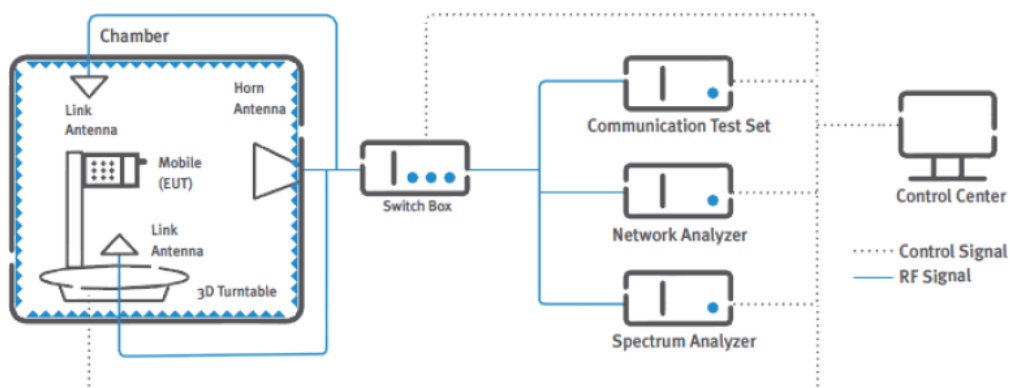
Source Antenna : Dual Polarization Horn Antenna

Test Frequency : 2400~2500MHz

4. Test Environment :

Room temperature : 22°C Humidity : 31%

5. Test Schematic Drawing of Setting :

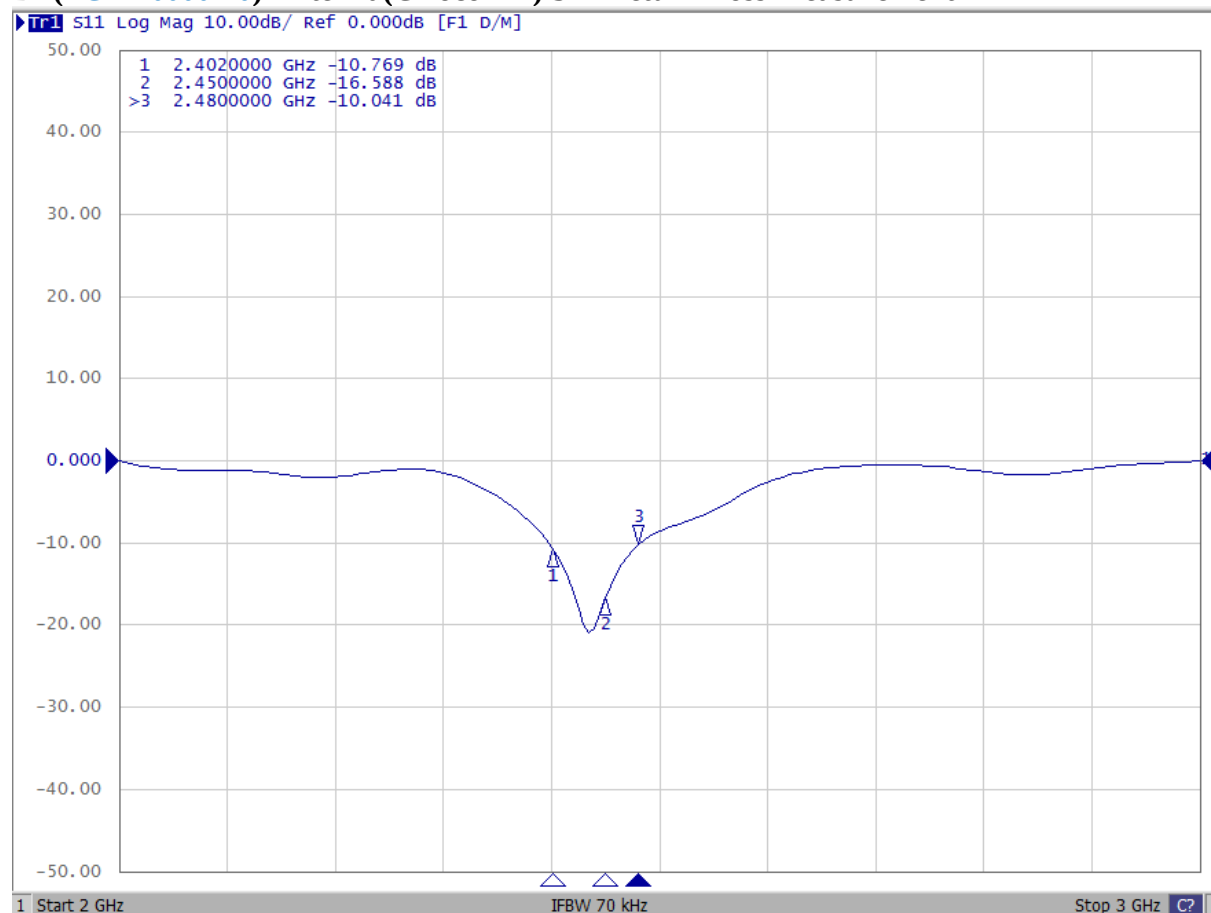


6. Test Data

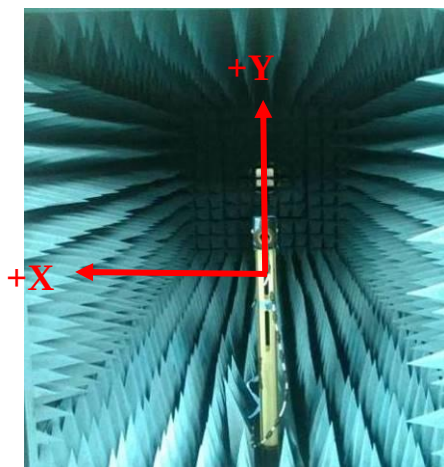
Environment



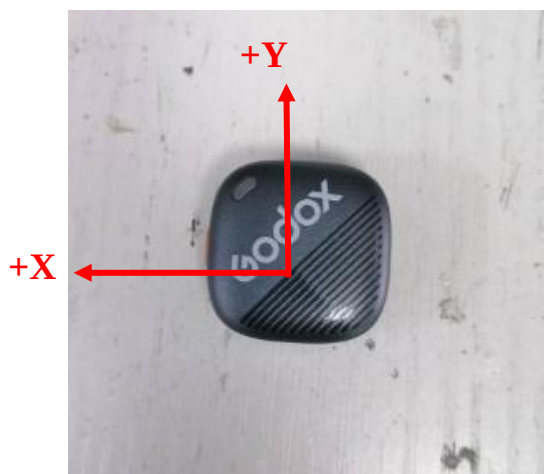
BT(PCAK0000-10) Antenna(Cirocomm) S11 Return Loss Measurement



Coordinate



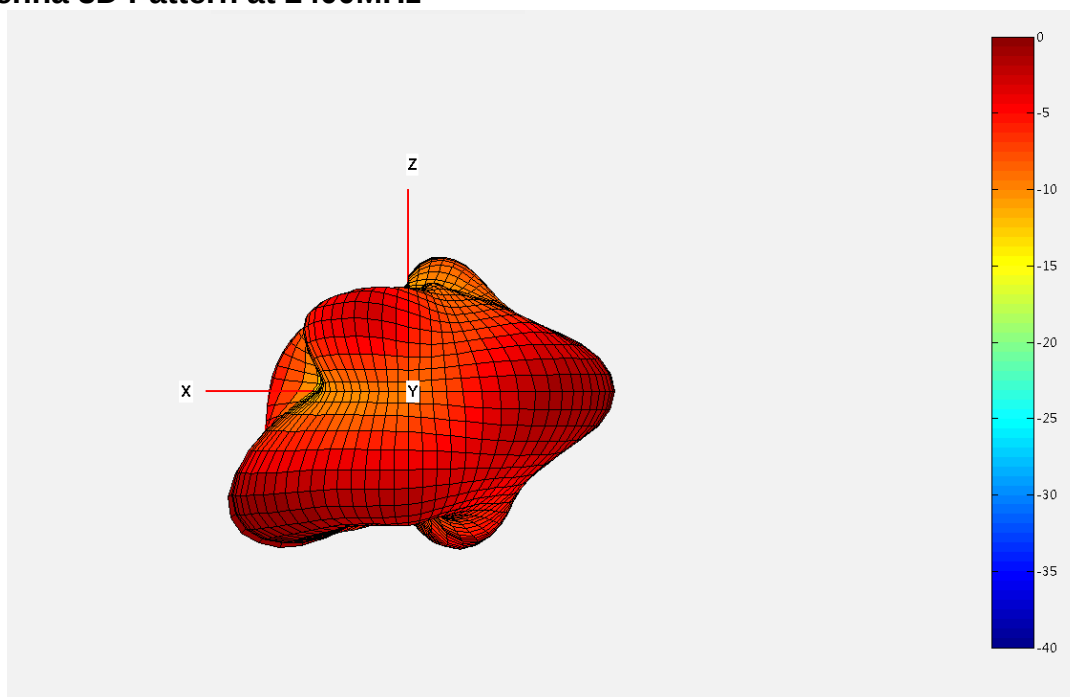
Chamber coordinate



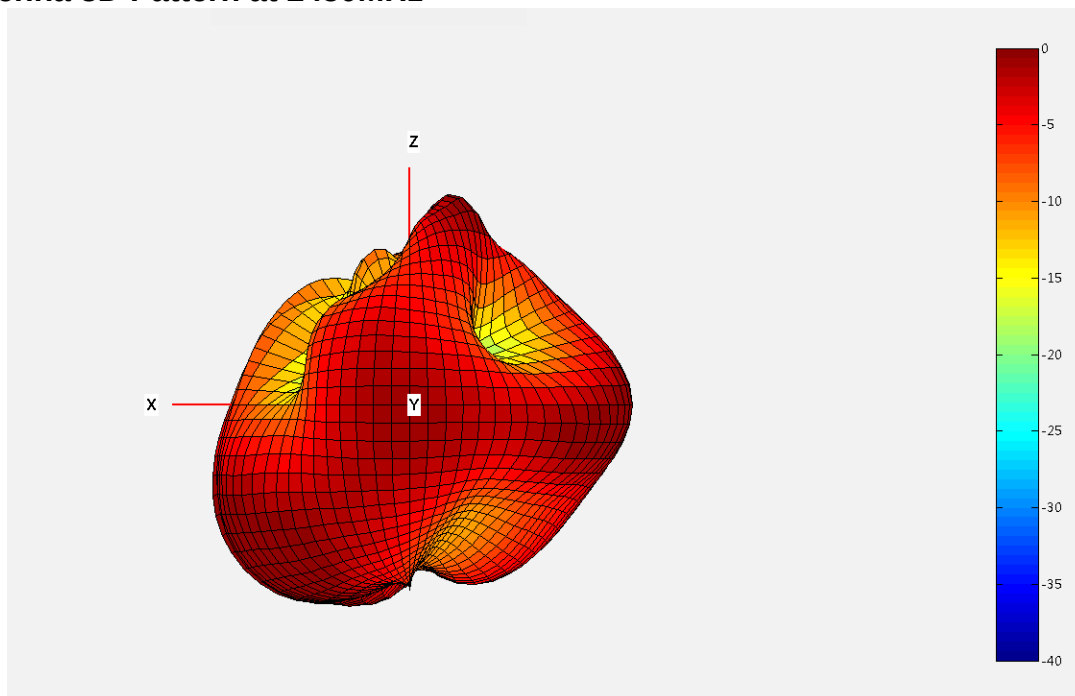
Antenna mounted on chamber coordinate

Radiation Pattern

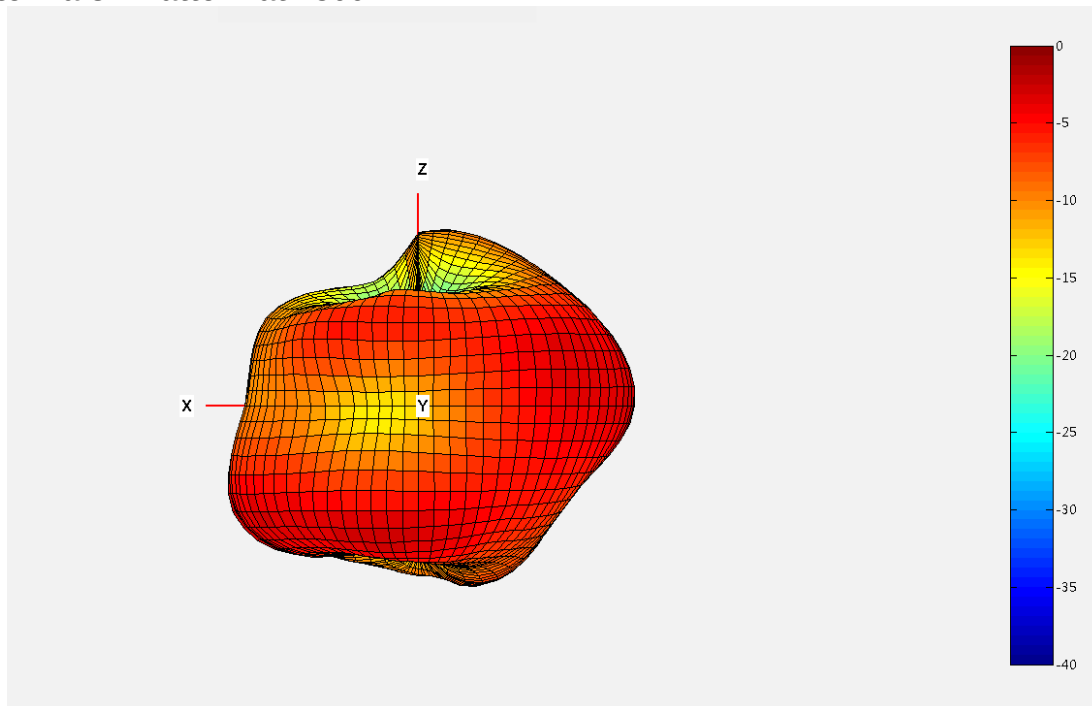
Antenna 3D Pattern at 2400MHz



Antenna 3D Pattern at 2450MHz



Antenna 3D Pattern at 2500MHz



Passive Performance :

Frequency	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2402MHz	-5.19	30.27	0.08
2404MHz	-4.65	34.28	0.02
2440MHz	-4.51	35.4	0.07
2441MHz	-4.47	35.73	0.14
2472MHz	-4.73	33.65	0.12
2480MHz	-5.02	31.48	0.04