BLE-0101 Antenna Specification

Version 1.0

1. General Information

1.1. General product infomation

Model	BLE-0101
Manufacture	RYSE Inc.
Address	20 Camden St. Suite 200, Toronto, Ontario, Canada
Antenna Type	PCB trace
Test Items	Gain; Efficiency; Radiation Pattern
Test Frequency	2400-2500MHz
Test Standard	ANSI/IEEE Std 149-1979 IEEE Standard Test Procedures for Antennas
Test Location	CVC Testing Technology (Shenzhen) Co., Ltd.

2. Test Configurations

2.1. Test Environment

Temperature (°C)	22.4
Humidity (%RH)	54.9
Atmospheric Pressure (kPa)	101

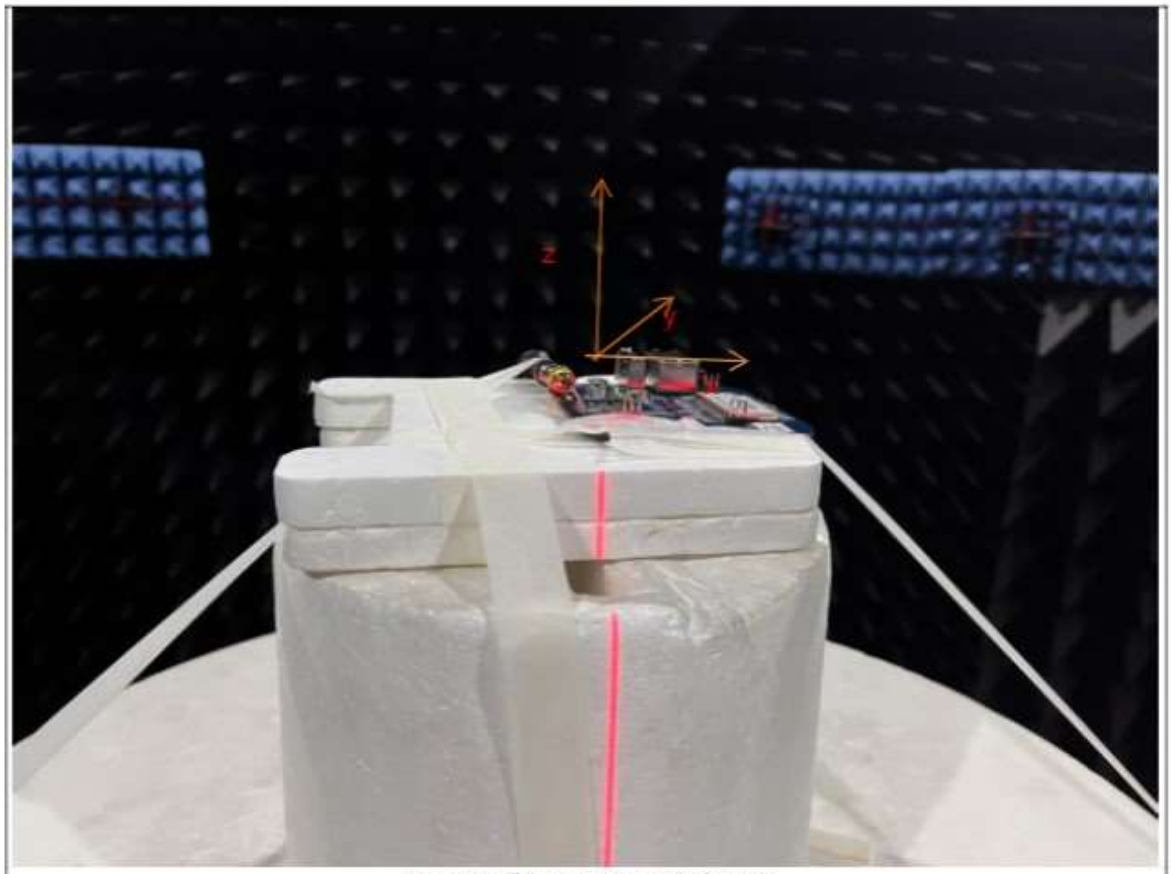
2.2. Technical Information

Frequency Range	2400MHz-2500MHz
Test Frequency	2400MHz-2500MHz

2.3. Measurement uncertainty

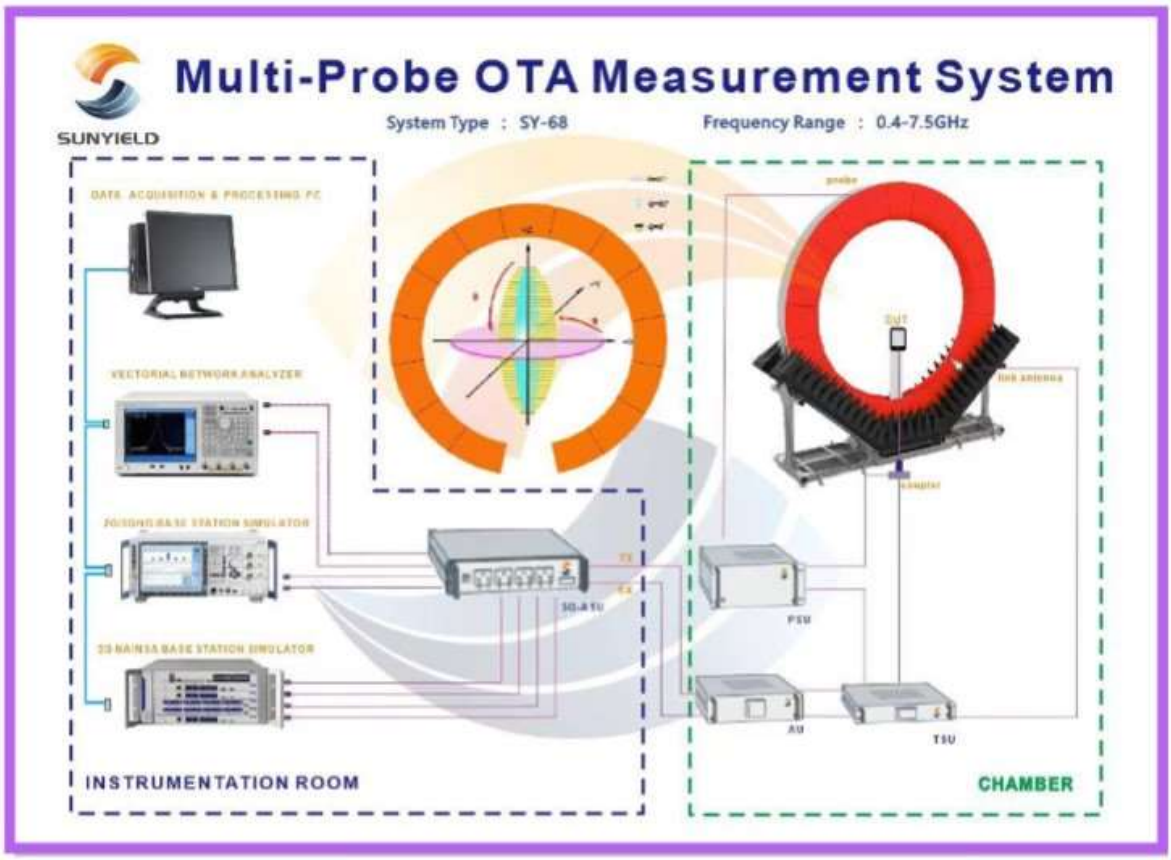
Item	Uncertainty
Gain	±0.8dB

2.4. Test Configurations



Passive Measurement Setup

2.5. Test Principle



2.6. Test Equipments

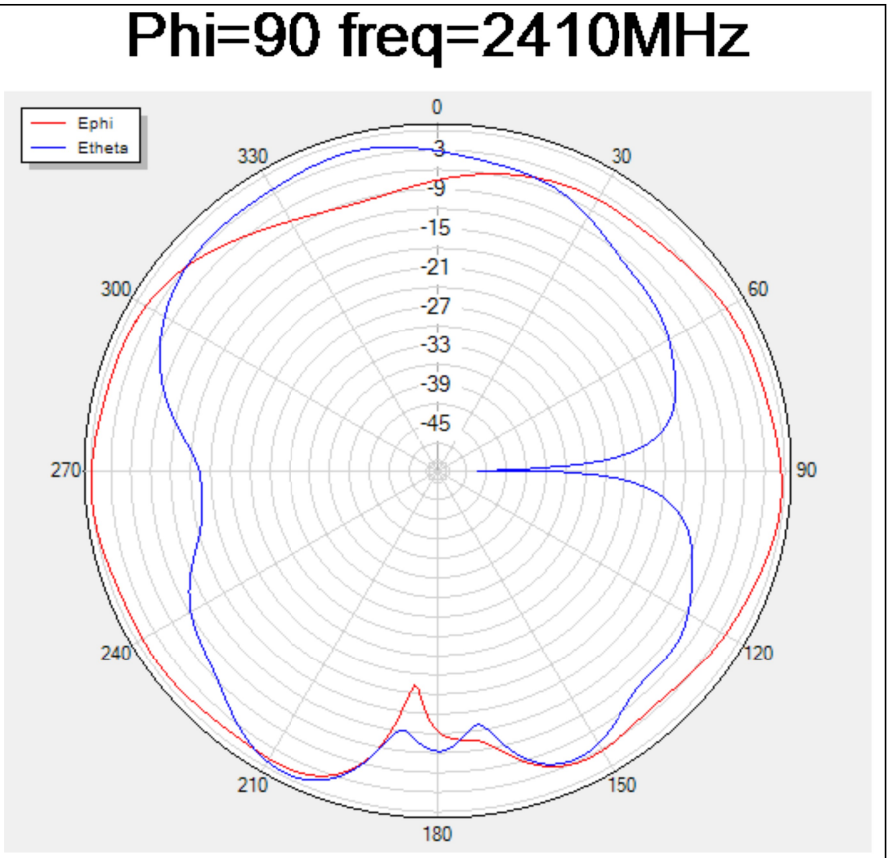
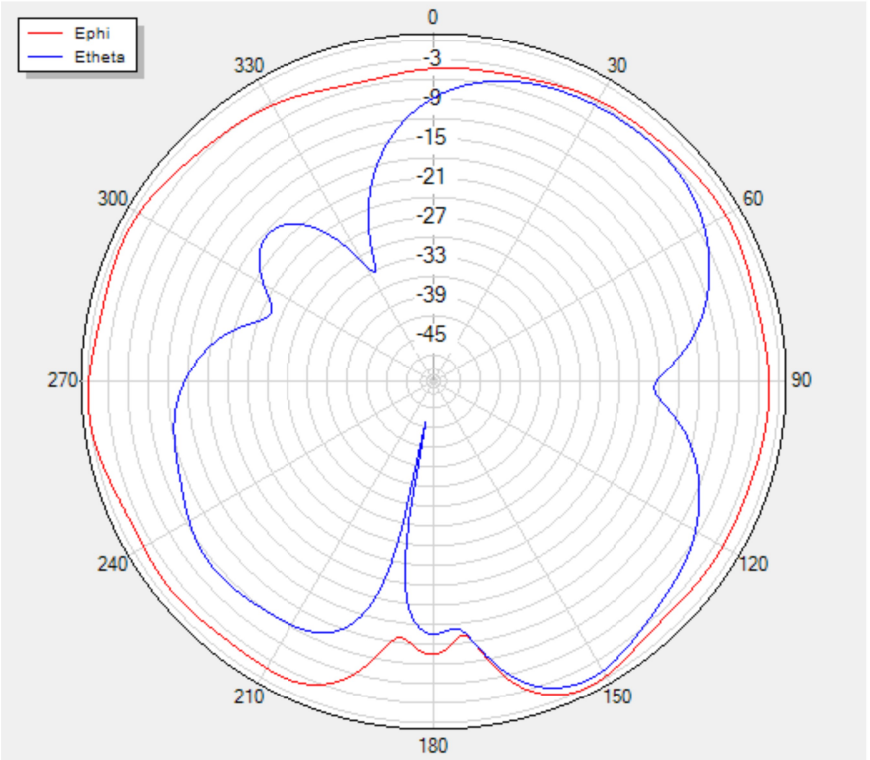
TestEquipment	Equipment No.	Serial No.	Manufacturer	Type/Mode	Cal.Due	Using
Shielded Room	CS0300038	20211221	SUN YIELD	6m*6m*6m	2024/12/20	√
Wide band Radio Communication Tester	CS0300068	102635	R&S	CMW270	2023/07/04	×
Vector Network Analyzer	CS0300067	101544	R&S	ZNB40	2023/06/26	√
Automatic switching Unit	CS0300039	81612472	/	5G ACTIVE SWITCHING UINT	/	√

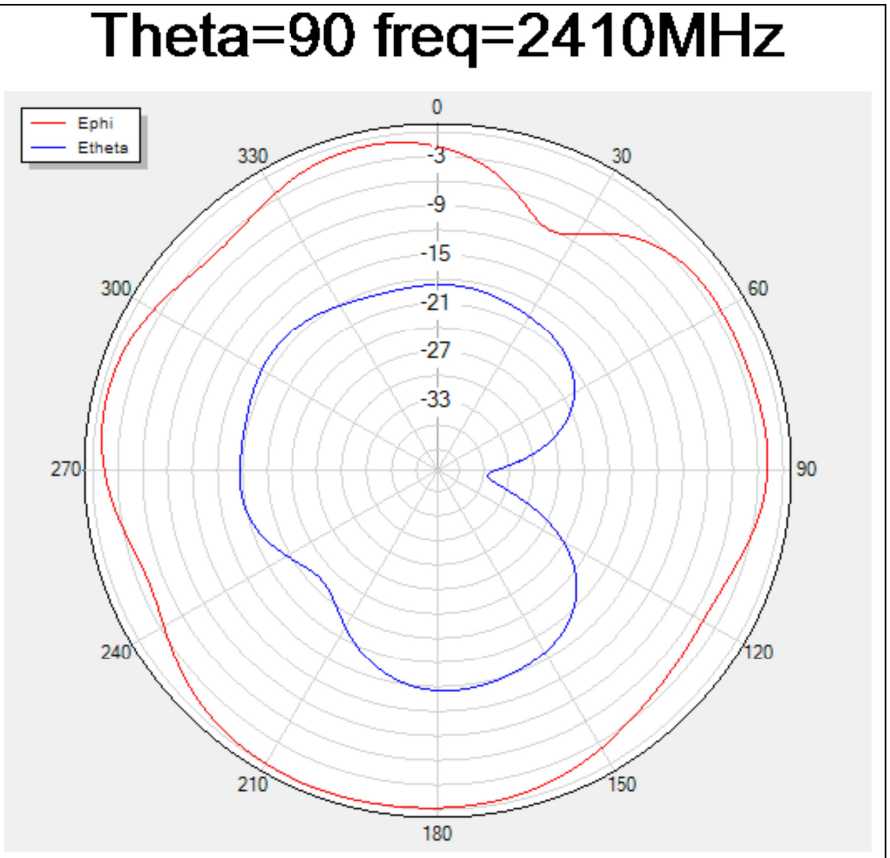
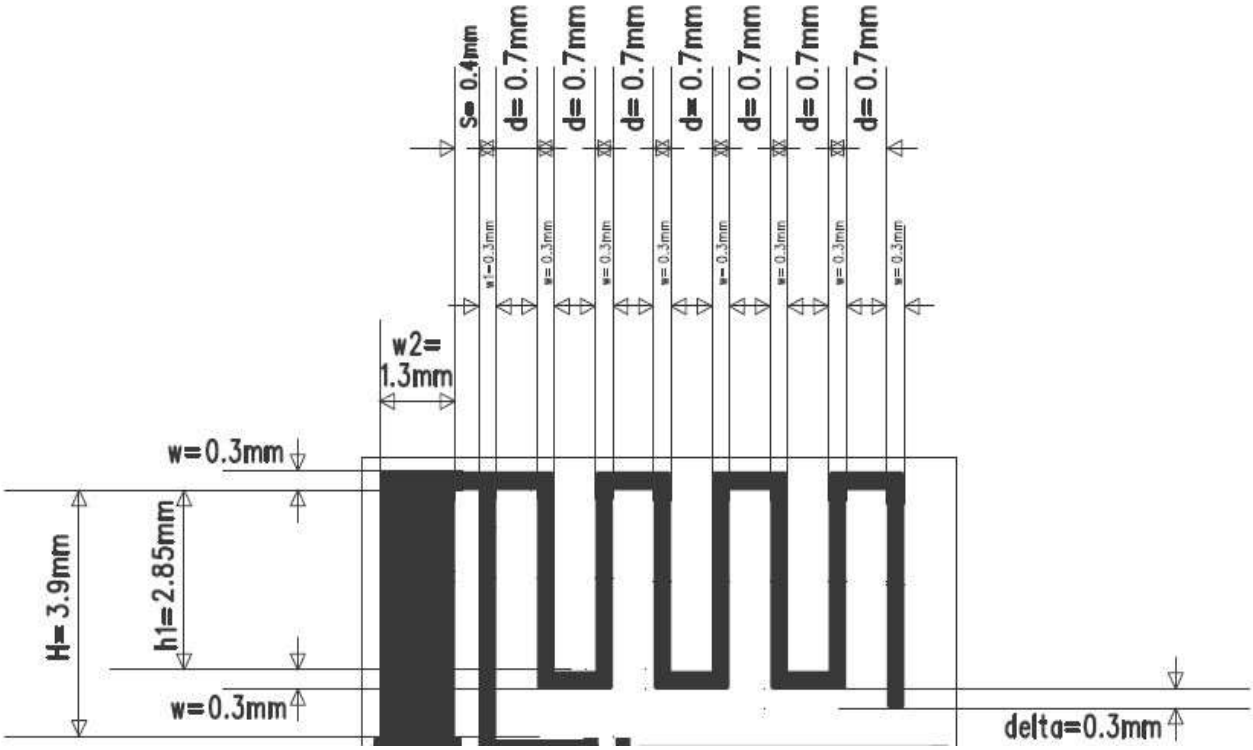
3. Test results

3.1. Gain and Efficienty

Test Model	BLE-0101	
Sample No.	1-1	
Frequency (MHz)	Gain(dBi)	Efficiency(dB)
2400	0.44	-4.08
2410	***0.62***	-3.93
2420	0.49	-4.06
2430	0.35	-4.15
2440	0.35	-4.22
2450	0.43	-4.15
2460	0.06	-4.48
2470	-0.12	-4.65
2480	-0.41	-5.06
2490	-0.36	-5.09
2500	-0.87	-5.53

3.2. Radition Pattern

2410MHz-XOZ	
2410MHz-YOZ	

2410MHz-XOY	 Theta=90 freq=2410MHz Ephi Etheta 0 30 60 90 120 150 180 210 240 270 300 330 -3 -9 -15 -21 -27 -33

4. **Antenna Dimension**