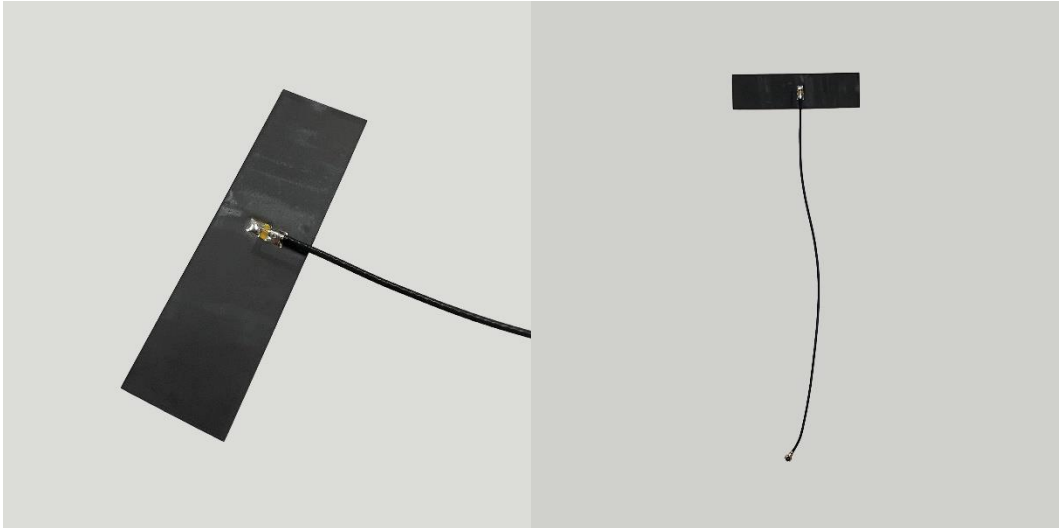


## 1. Specification

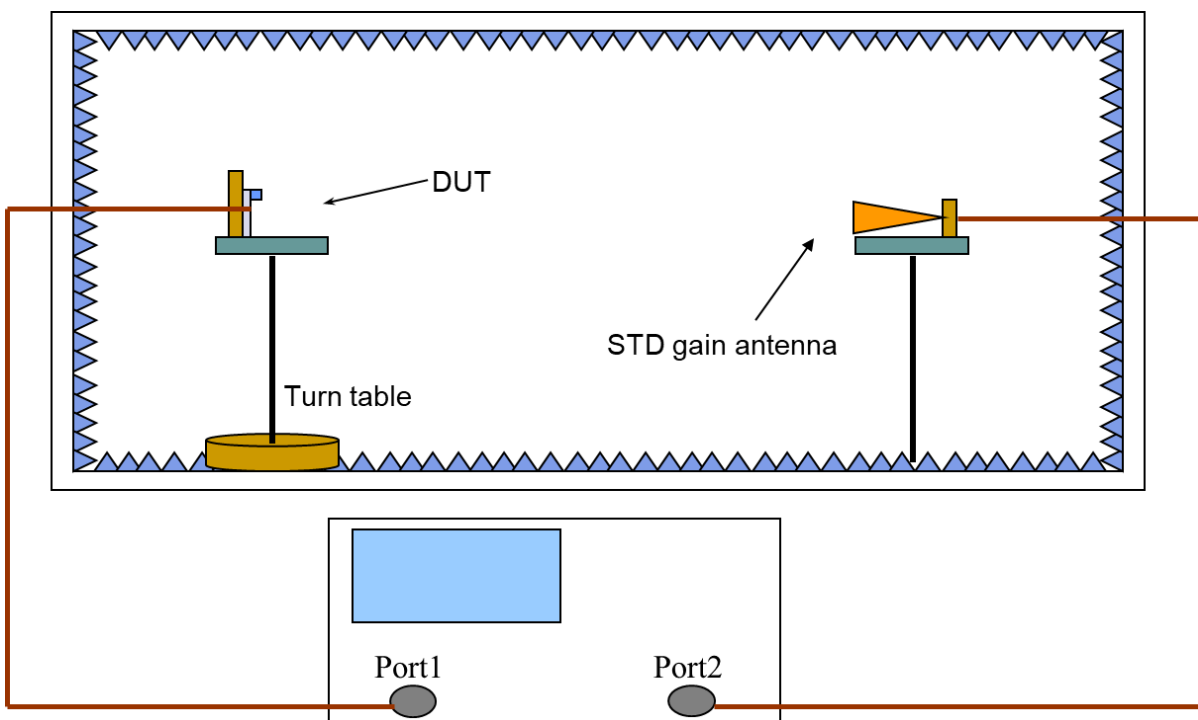
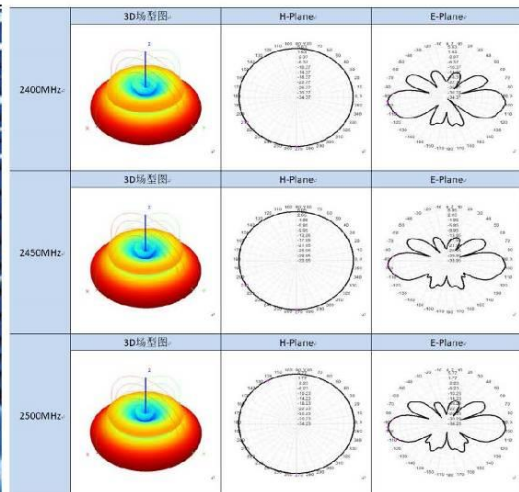
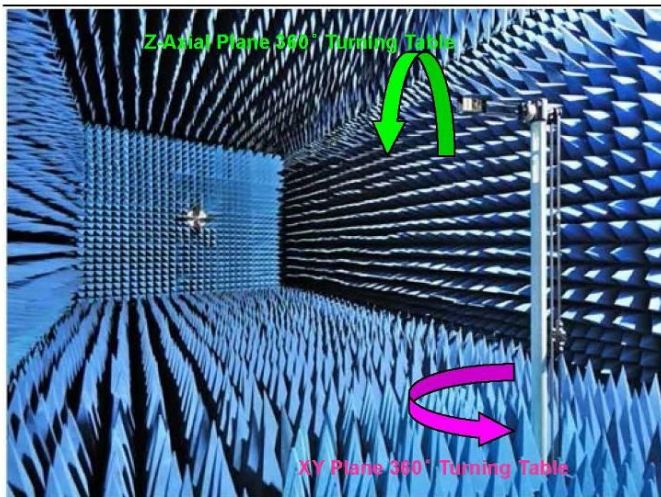
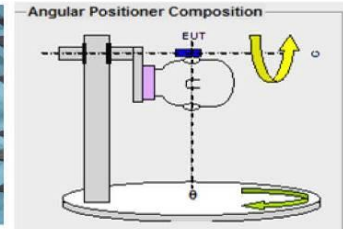
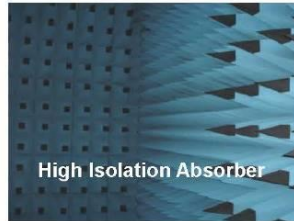
Sample Photo	
	
A. Electrical Characteristics	
Frequency	2400-2500MHz
S.W.R.	<2.0
Antenna Gain	3dBi
Efficiency	≈75%
Polarization	Linear
Horizontal Beamwidth	360°
Vertical Beamwidth	43-48°
Impedance	50 Ohm
Max Power	50W
B. Material & Mechanical Characteristics	
Cable Type	RF1.13 Cable
Connector Type	MHF1 Plug
Dimension	44*12mm
Weight	0.001Kg
C. Environmental	
Operation Temperature	- 40 °C ~ + 65 °C
Storage Temperature	- 40 °C ~ + 80 °C

## Test Equipment & Conditions

1. Network Analyzer: Keysight E5071C

2. 3D Chamber Test System

- .Chamber Size: 9 x 5 x 4 m<sup>3</sup>
- .Freq. Range: 0.4 ~ 18.0 GHz
- .Double Ridge Horn Antenna
- .VNA: Agilent E5071C
- .3D Turning Table and Positioner
- .ADT Solution 3D Testing Software





Product Number: BGS-AN2400-4412B-0125  
Product Name: WIFI Embedded Antenna

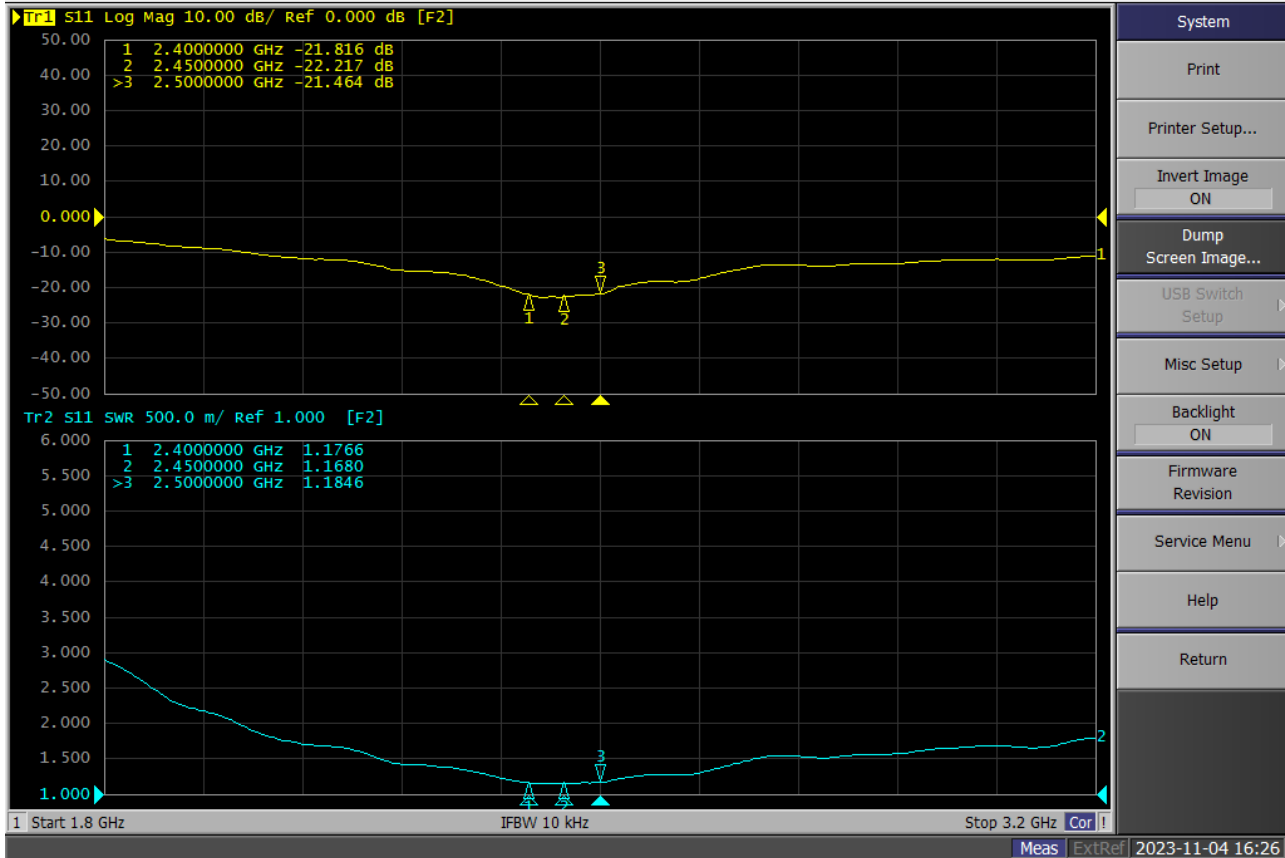
## 2. Antenna - S Parameter Test Data

### 2.1. VSWR

E5063A Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

Resize

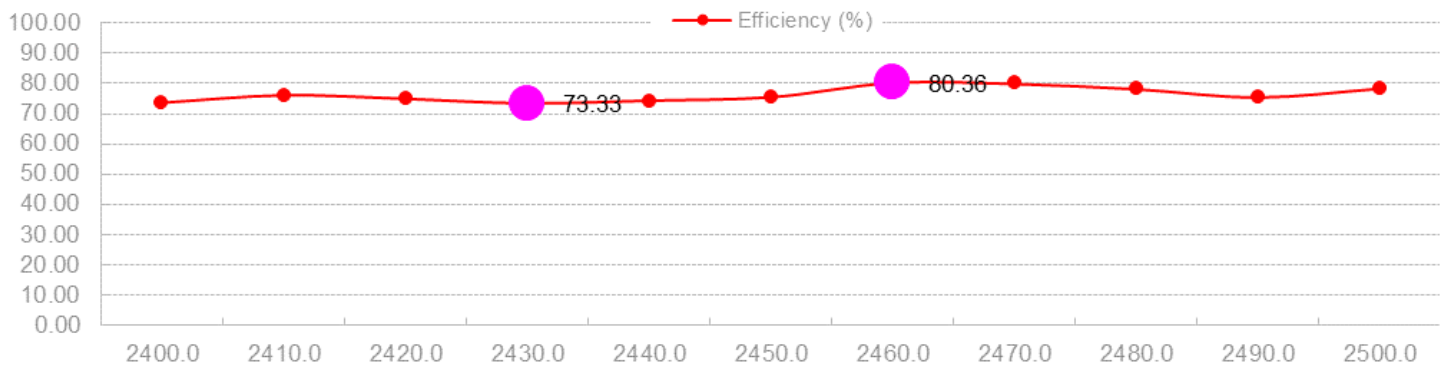




Product Number: BGS-AN2400-4412B-0125  
Product Name: WIFI Embedded Antenna

## 2.2. Total Efficiency & Gain:

Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	2.18	2.46	2.53	2.38	2.31	2.43	2.88	2.98	2.88	2.59	2.74
Efficiency (%)	73.56	76.10	74.87	73.33	74.27	75.43	80.36	79.99	78.17	75.33	78.35





### 2.3 Radiation Pattern

2.4G	3D	2D-水平面	2D-垂直面
2400M Hz		<p>2.18</p> <p>-1.82</p> <p>-5.82</p> <p>-9.82</p> <p>-13.82</p> <p>-17.82</p> <p>-21.82</p> <p>-25.82</p> <p>-29.82</p> <p>-33.82</p> <p>-37.82</p>	<p>2.18</p> <p>-1.82</p> <p>-5.82</p> <p>-9.82</p> <p>-13.82</p> <p>-17.82</p> <p>-21.82</p> <p>-25.82</p> <p>-29.82</p> <p>-33.82</p> <p>-37.82</p>
2450M Hz		<p>2.43</p> <p>-1.57</p> <p>-5.57</p> <p>-9.57</p> <p>-13.57</p> <p>-17.57</p> <p>-21.57</p> <p>-25.57</p> <p>-29.57</p> <p>-33.57</p> <p>-37.57</p>	<p>2.43</p> <p>-1.57</p> <p>-5.57</p> <p>-9.57</p> <p>-13.57</p> <p>-17.57</p> <p>-21.57</p> <p>-25.57</p> <p>-29.57</p> <p>-33.57</p> <p>-37.57</p>
2500M Hz		<p>2.74</p> <p>-1.26</p> <p>-5.26</p> <p>-9.26</p> <p>-13.26</p> <p>-17.26</p> <p>-21.26</p> <p>-25.26</p> <p>-29.26</p> <p>-33.26</p> <p>-37.26</p>	<p>2.74</p> <p>-1.26</p> <p>-5.26</p> <p>-9.26</p> <p>-13.26</p> <p>-17.26</p> <p>-21.26</p> <p>-25.26</p> <p>-29.26</p> <p>-33.26</p> <p>-37.26</p>



Product Number: BGS-AN2400-4412B-0125  
 Product Name: WIFI Embedded Antenna

### 3. Mechanical Drawing

