




Product Number: BGS-AN2458-23275W
Product Name: 2.4/5.8GHz Fiberglass Antenna

1. Specification

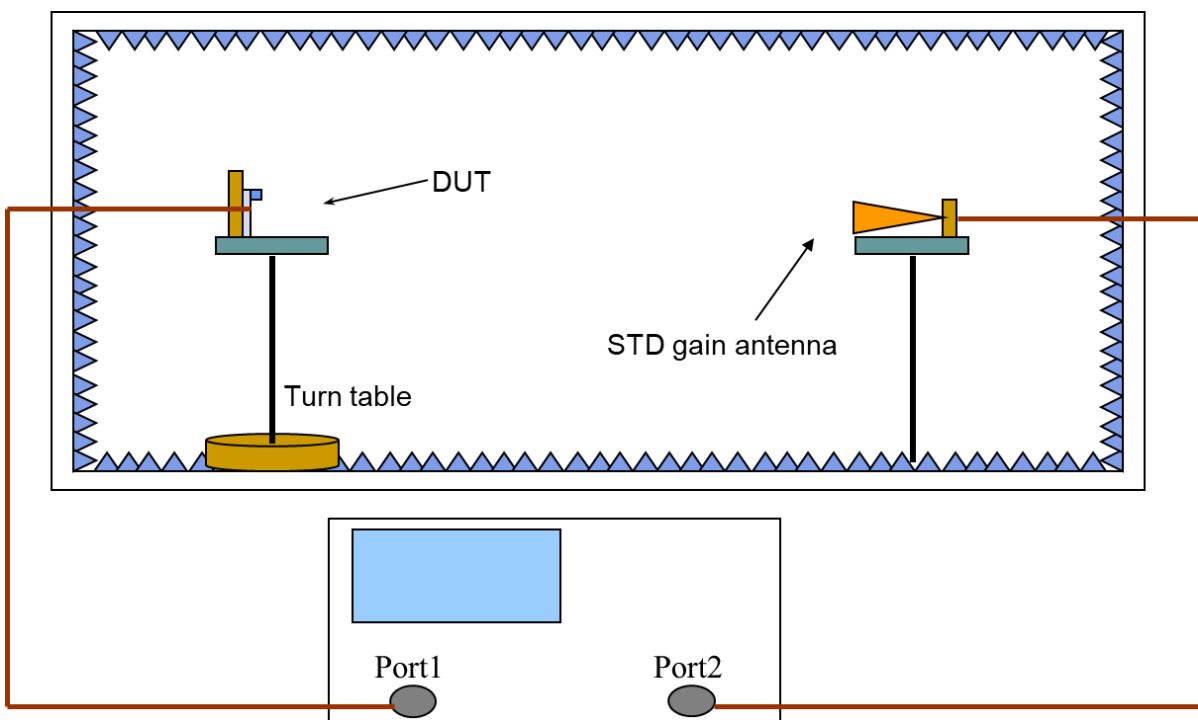
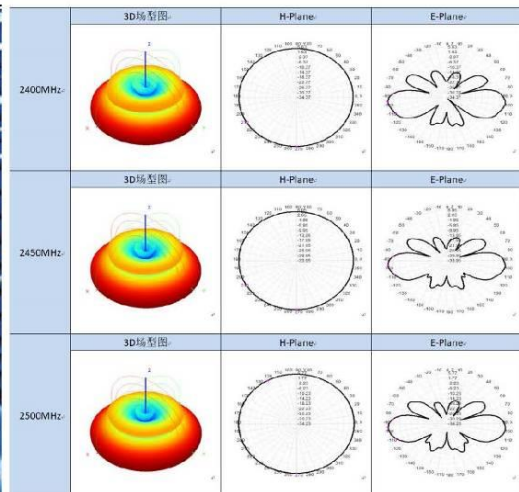
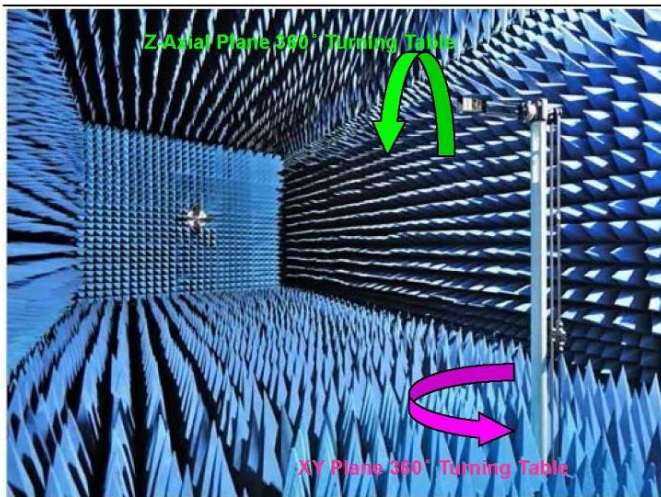
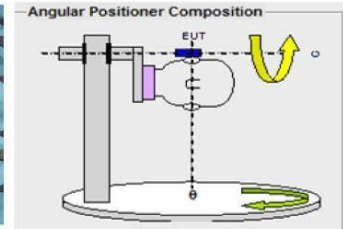
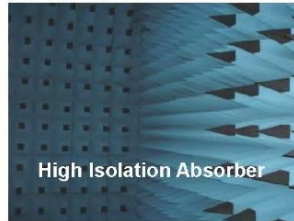
Sample Photo		
		
A. Electrical Characteristics		
Frequency	2400-2500MHz	5150-5850MHz
Impedance	50 Ohm	50 Ohm
S.W.R.	<2.0	<2.0
Gain	6dBi	8dBi
Efficiency	≈75%	≈72%
Horizontal Beamwidth	360°	360°
Vertical Beamwidth	25-27°	16-40°
Polarization	Linear	Linear
Max Power	50W	50W
B. Material & Mechanical Characteristics		
Connector Type	N connector	
Dimension	Φ 23*275mm	
Weight	0.097Kg	
Radome material	Fiberglass	
C. Environmental		
Operation Temperature	- 40 °C ~ + 80 °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 m³
- .Freq. Range: 0.4 ~ 18.0 GHz
- .Double Ridge Horn Antenna
- .VNA: Agilent E5071C
- .3D Turning Table and Positioner
- .ADT Solution 3D Testing Software

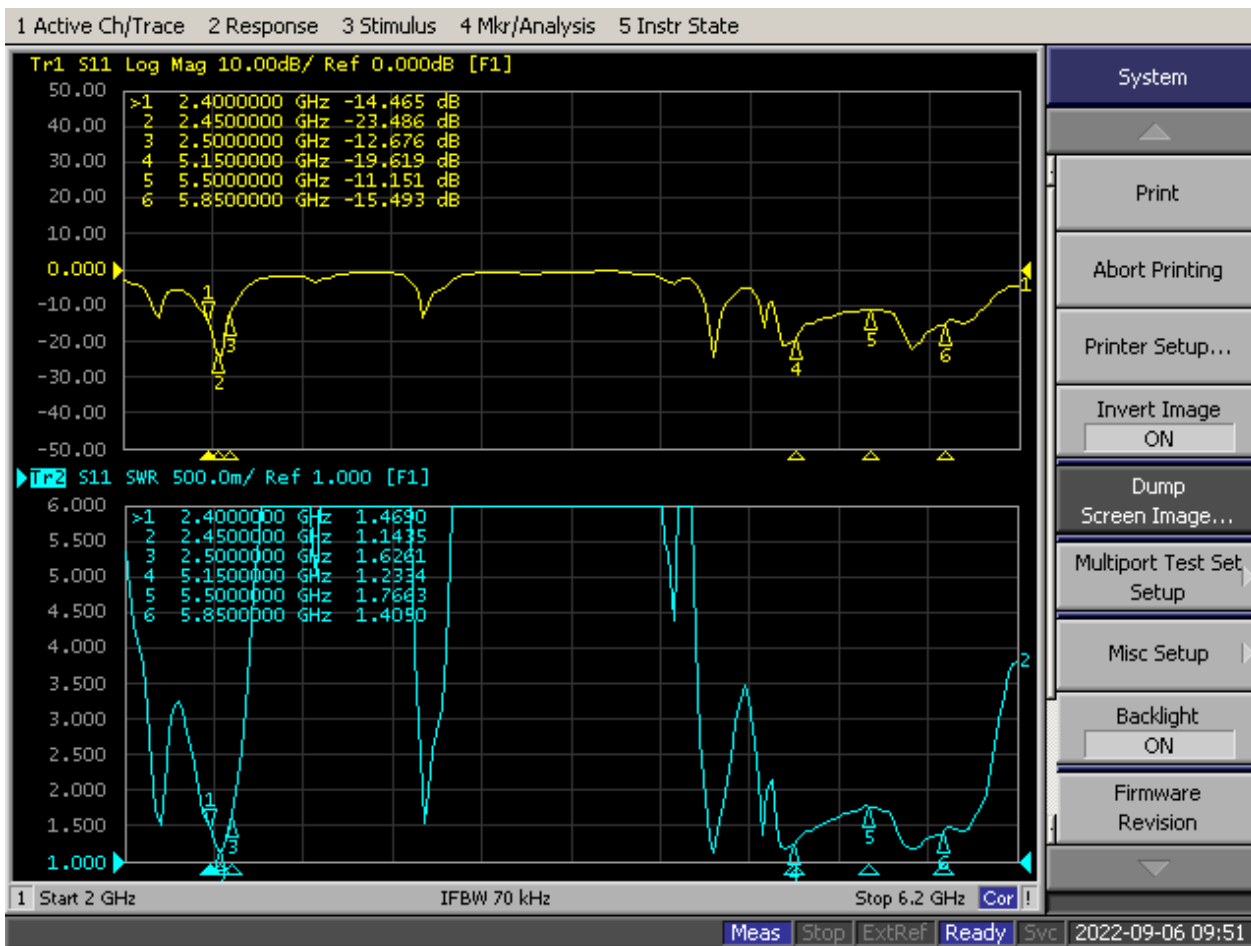




Product Number: BGS-AN2458-23275W
Product Name: 2.4/5.8GHz Fiberglass Antenna

2. Antenna - S Parameter Test Data

2.1. VSWR



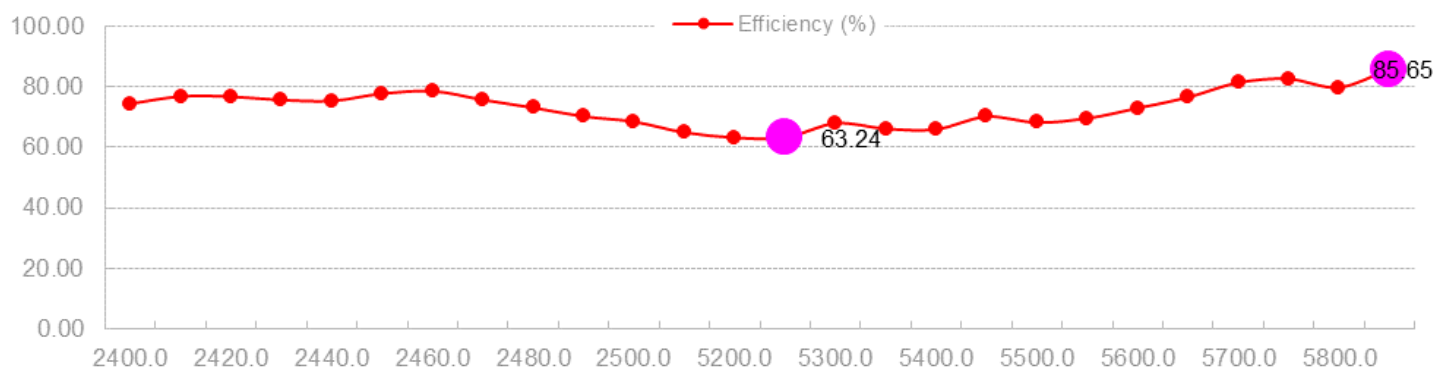


Product Number: BGS-AN2458-23275W
 Product Name: 2.4/5.8GHz Fiberglass Antenna

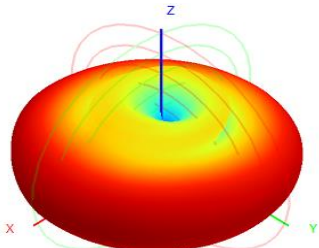
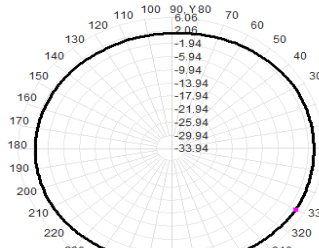
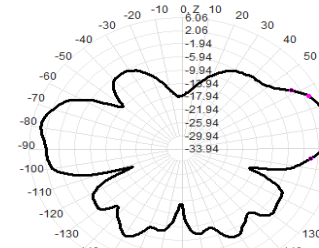
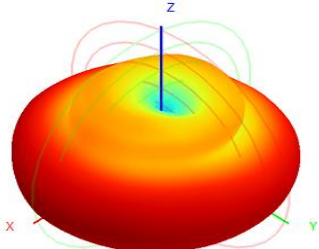
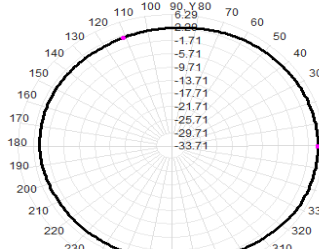
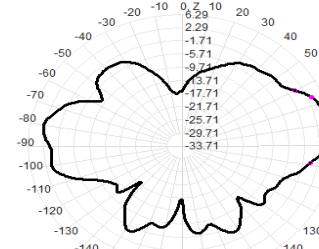
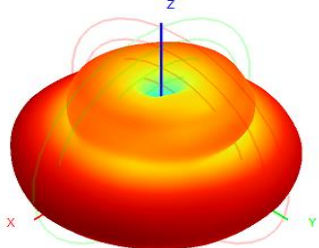
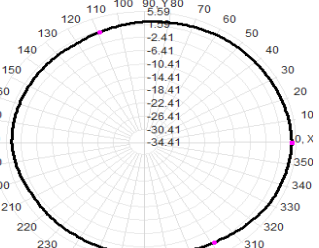
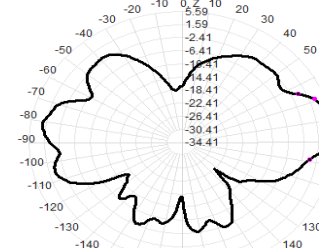
2.2 Total Efficiency & Gain:

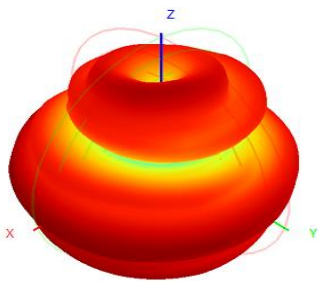
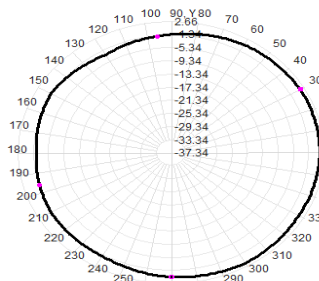
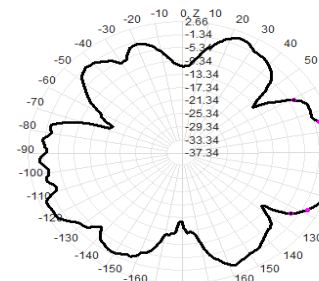
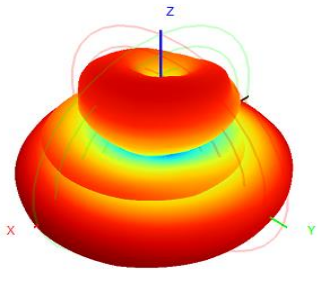
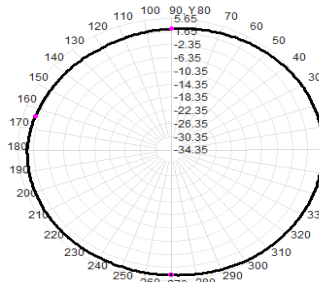
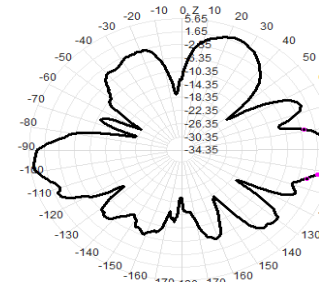
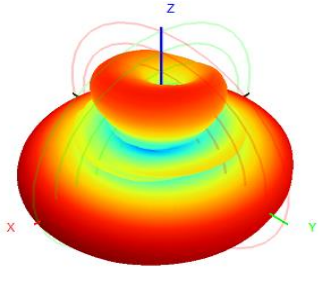
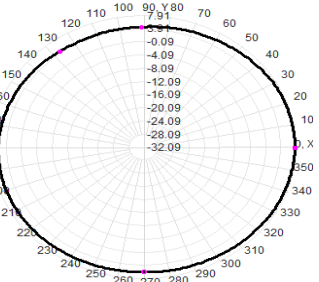
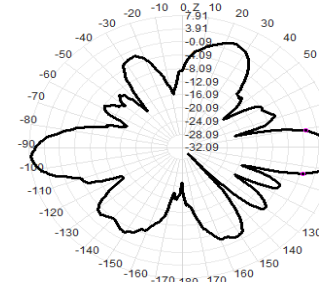
Frequency(MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	5.92	6.06	6.06	6.03	6.14	6.29	6.30	6.14	6.02	5.83	5.60
Efficiency (%)	74.46	76.85	76.74	75.64	75.38	77.77	78.56	75.69	73.08	70.27	68.49

Frequency(MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850
Gain (dBi)	3.25	3.33	3.65	4.12	4.57	5.01	5.65	5.65	5.69	6.61	7.63	7.94	8.01	7.72	7.91
Efficiency (%)	64.98	63.28	63.24	68.00	66.20	66.00	70.20	68.25	69.60	72.96	76.50	81.36	82.60	79.81	85.65



2.3 Radiation Pattern

	3D	2D-Horizontal	2D-Vertical
2400M Hz			
2450M Hz			
2500M Hz			

	3D	2D-Horizontal	2D-Vertical
5150M Hz			
5500M Hz			
5850M Hz			



Product Number: BGS-AN2458-23275W
 Product Name: 2.4/5.8GHz Fiberglass Antenna

3. Mechanical Drawing

