




Product Number: BGS-AN5800-16300W
Product Name: 5.8GHz Omnidirectional Fiberglass Antenna

1. Specification

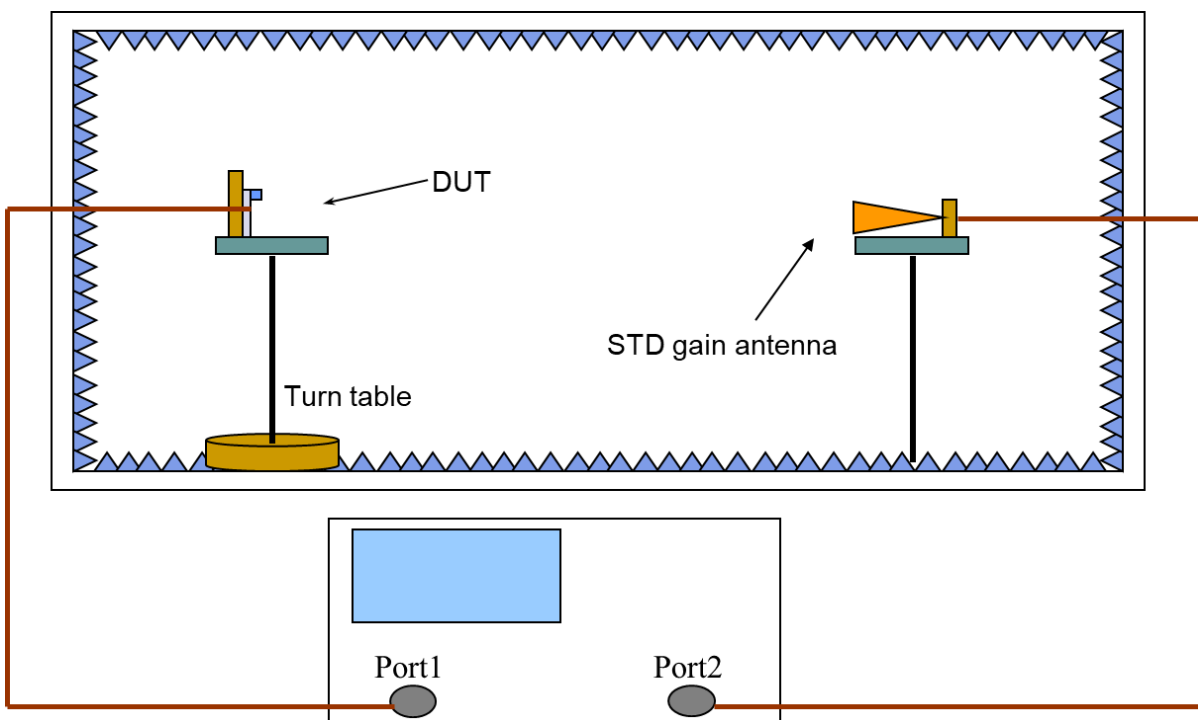
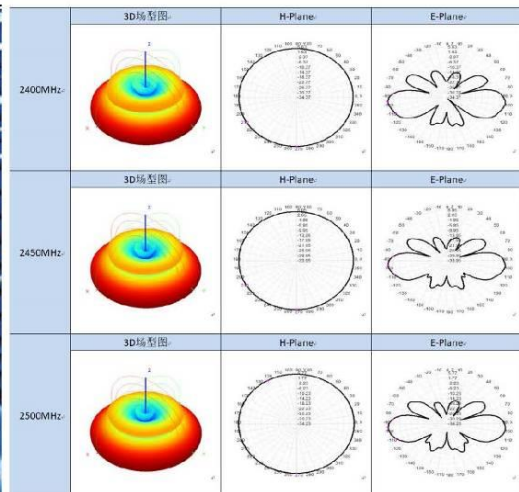
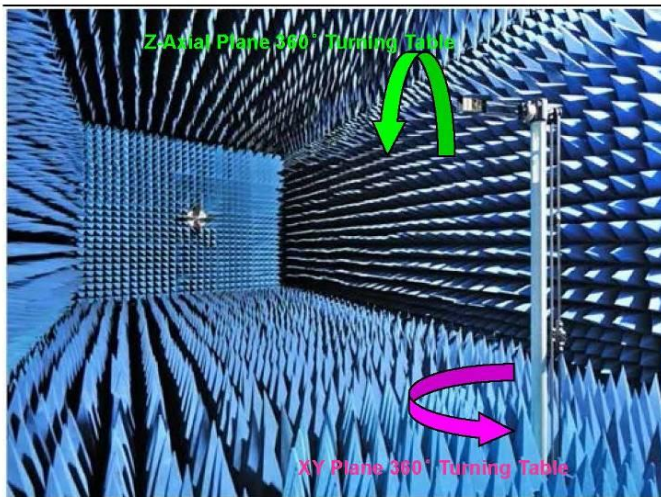
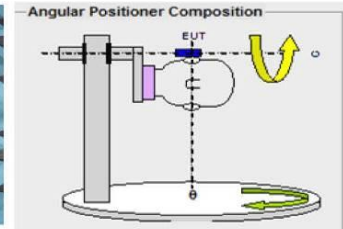
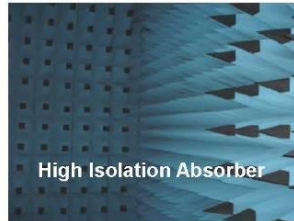
Sample Photo	
	
A. Electrical Characteristics	
Frequency	5150-5850MHz
Impedance	50 Ohm
S.W.R.	<2.0
Antenna Gain	9.5dBi
Efficiency	≈70%
Polarization	Linear
Horizontal Beamwidth	360°
Vertical Beamwidth	15°±5°
Max Power	50W
B. Material & Mechanical Characteristics	
Connector Type	N connector
Dimension	Φ 16*300mm
Weight	0.097Kg
Radome material	Fiberglass
C. Environmental	
Operation Temperature	- 40 °C ~ + 80 °C
Storage Temperature	- 40 °C ~ + 80 °C
Rated Wind Velocity	36.9m/s
Lighting Protection	DC Ground

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

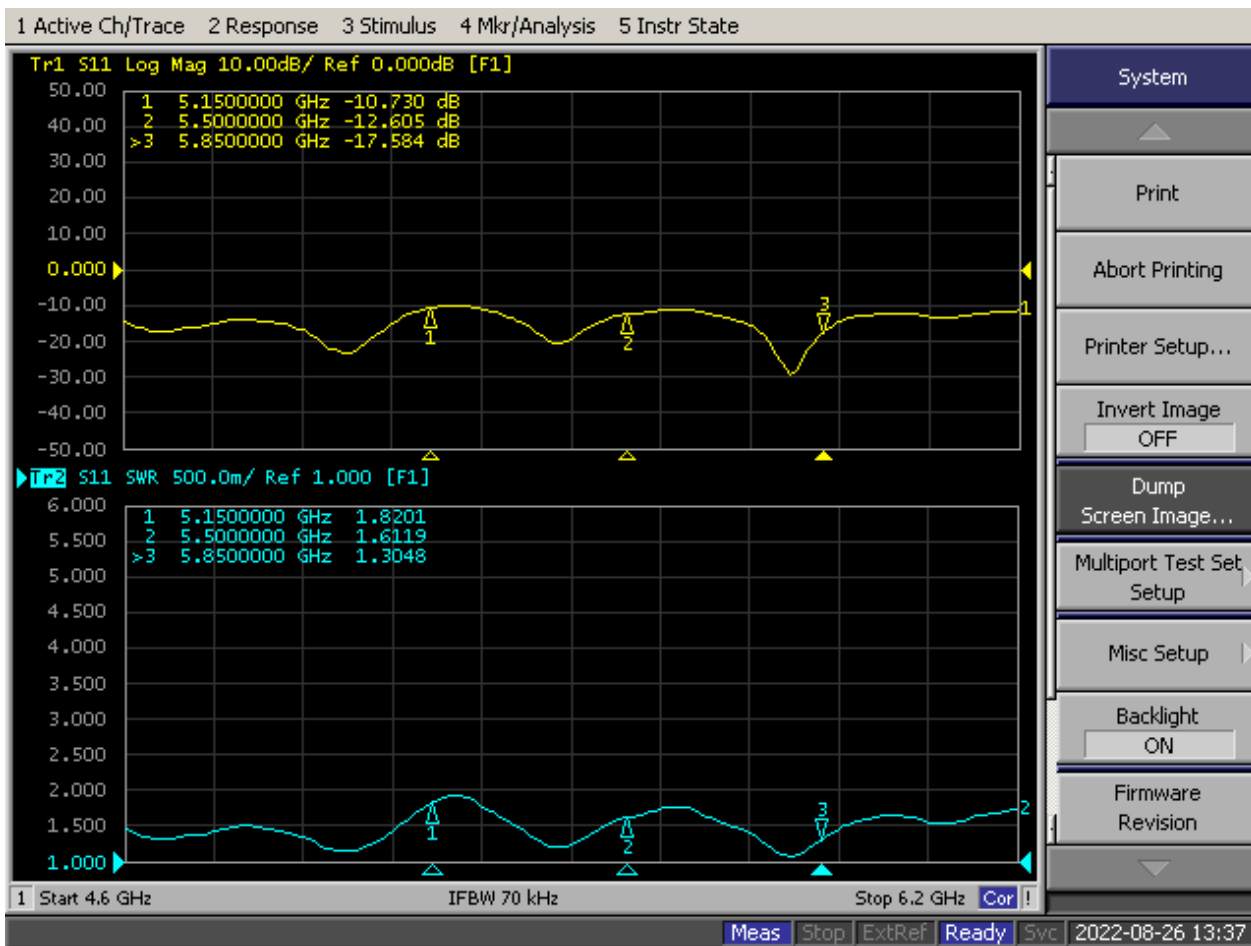




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2. Antenna - S Parameter Test Data

2.1. VSWR

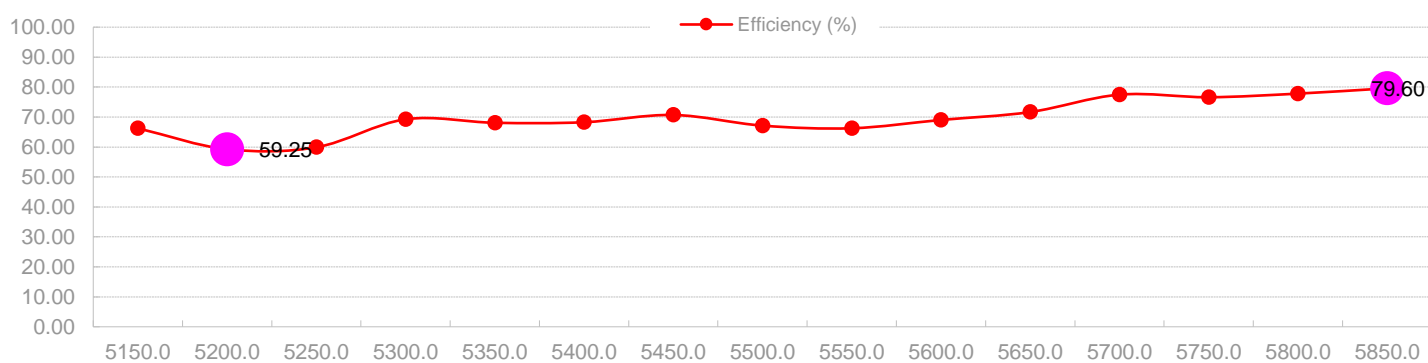




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2.2. Total Efficiency & Gain:

Frequency(MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850
Gain (dBi)	8.13	7.58	7.41	7.71	7.52	7.19	7.21	7.70	8.07	8.50	8.76	9.18	9.12	9.14	9.51
Efficiency (%)	66.24	59.25	59.92	69.26	68.08	68.27	70.70	67.14	66.26	69.03	71.68	77.47	76.62	77.82	79.60





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2.3 Radiation Pattern

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



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3. Mechanical Drawing

