

Product Number: BGS-AN5850-20400G

Product Name: 5150-5850MHZ Omnidirectional Fiberglass Antenna



1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency	5150-5850MHz
Impedance	50 Ohm
S.W.R.	<2.0
Antenna Gain	6.5-8dBi
Efficiency	≈76%
Polarization	Linear
Horizontal Beamwidth	360°
Vertical Beamwidth	11~15°
Max Power	50W
B. Material & Mechanical Characteristics	
Connector Type	N connector
Dimension	Φ 20*400mm
Weight	0.71Kg
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

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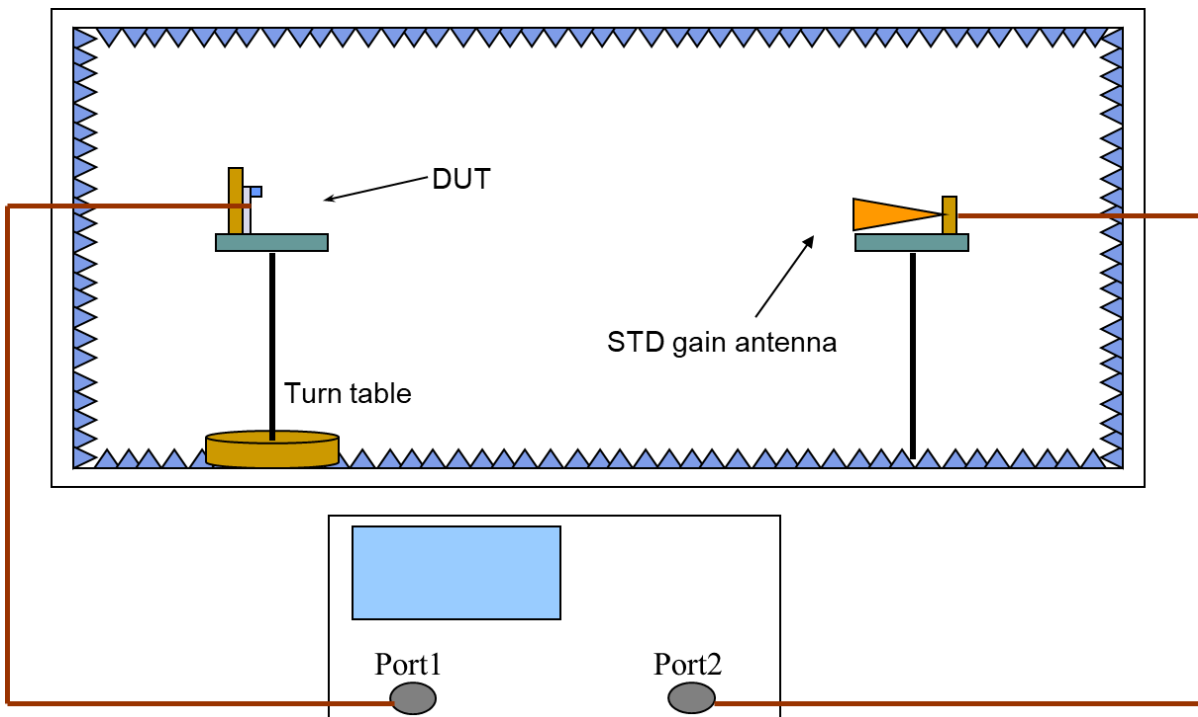
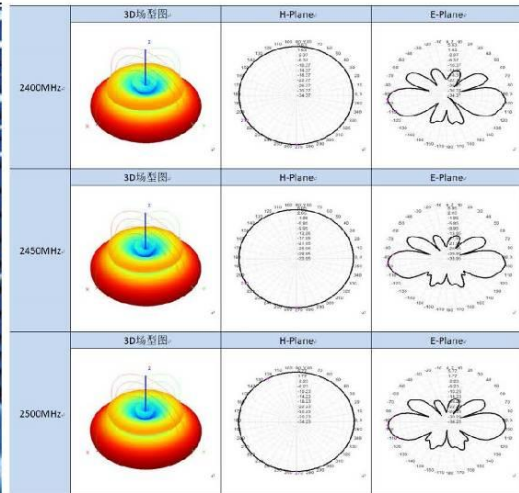
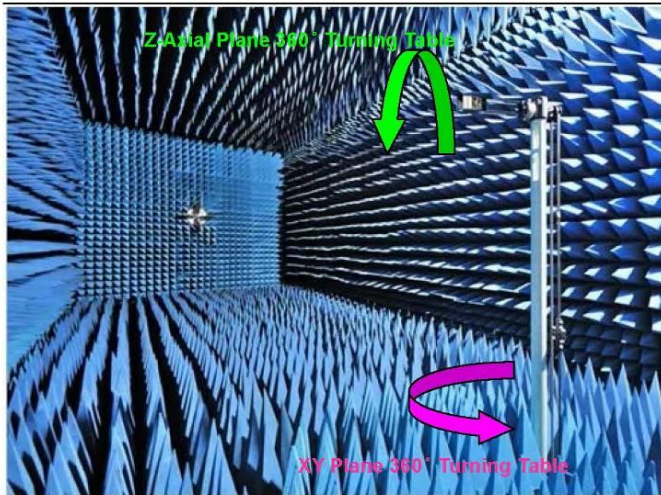
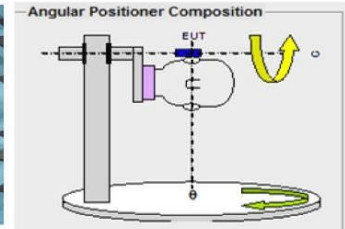
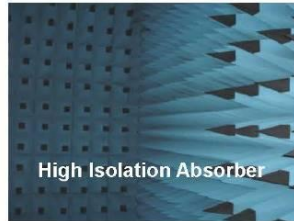


Test Equipment & Conditions

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

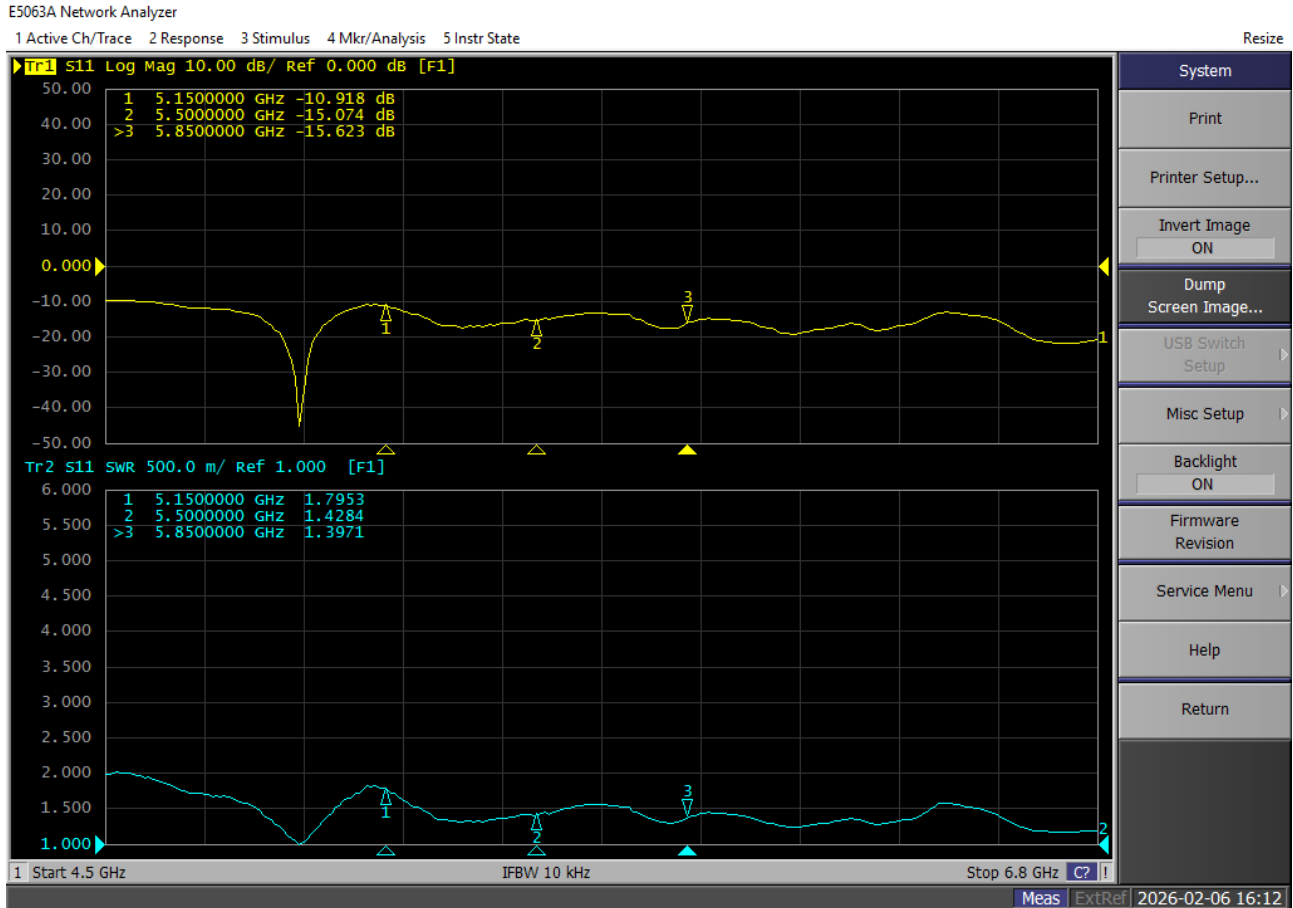


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2. Antenna - S Parameter Test Data

2.1. VSWR



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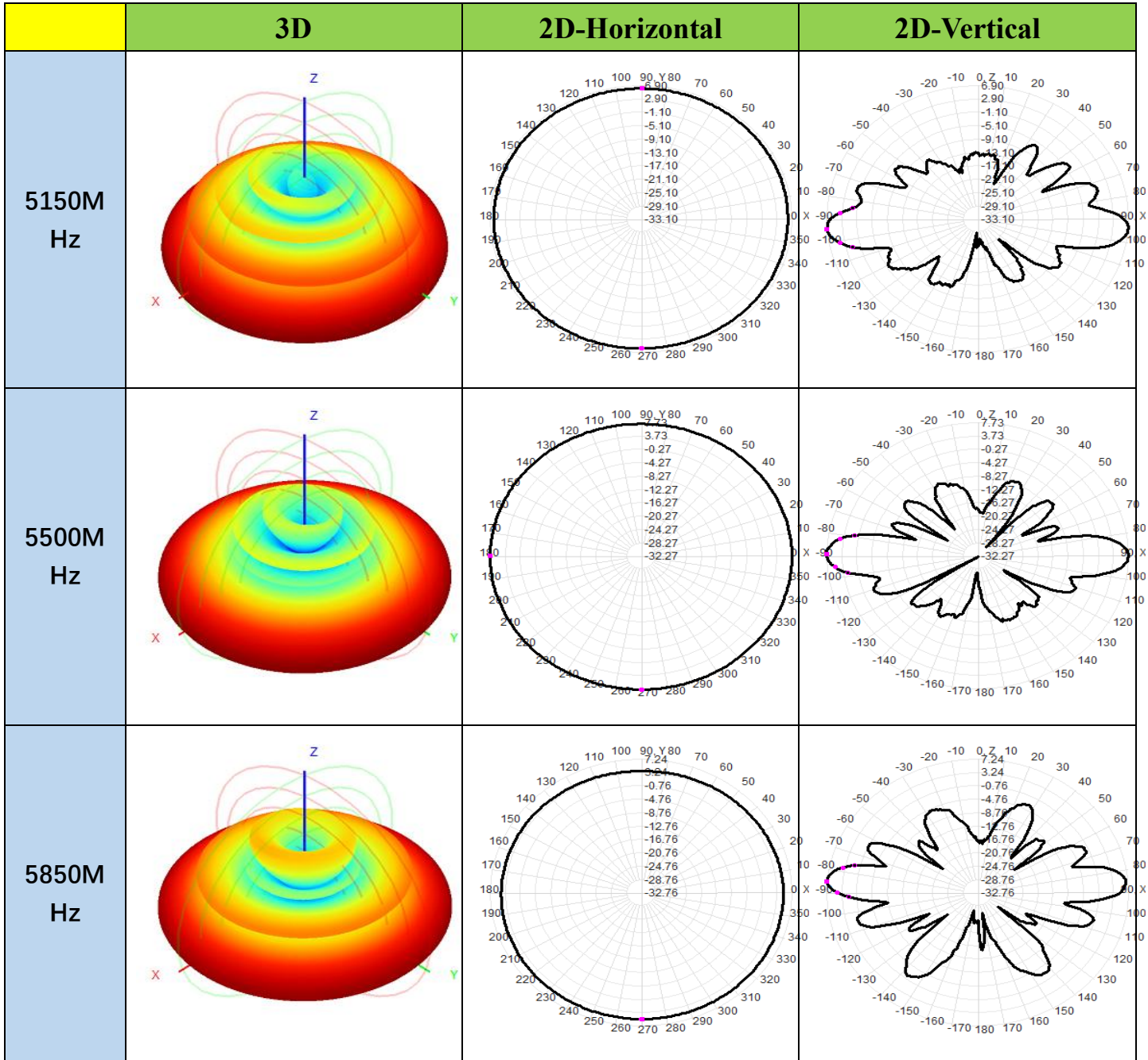
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2.2. Total Efficiency & Gain:

Frequency(MHz)	Gain(dBi)	Efficiency(%)
5150	6.9	74.9
5200	7.3	76.2
5250	7.6	80.5
5300	7.4	75.5
5350	7.5	76.6
5400	7.8	80.7
5450	7.7	81.4
5500	7.7	78.6
5550	7.9	79.1
5600	7.6	76.0
5650	7.9	80.2
5700	6.8	63.9
5750	7.3	72.7
5800	7.5	72.1
5850	7.2	70.5

2.3 Radiation Pattern



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3. Mechanical Drawing

