


Product Number: BGS-AN8000-16120B

Product Name: 6000-8000MHZ Omnidirectional Fiberglass Antenna



1. Specification

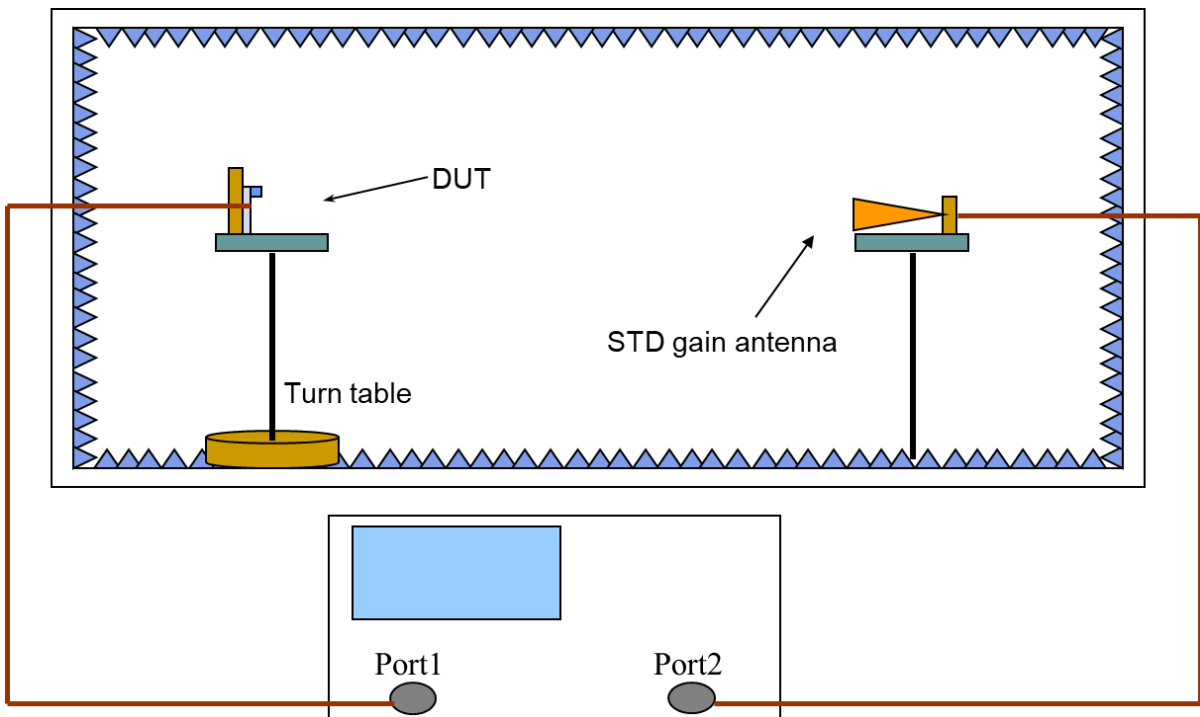
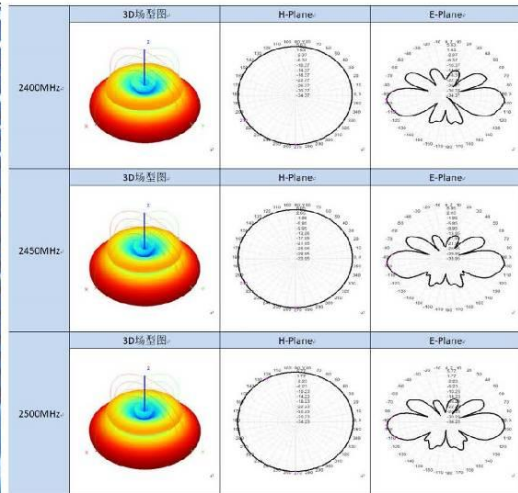
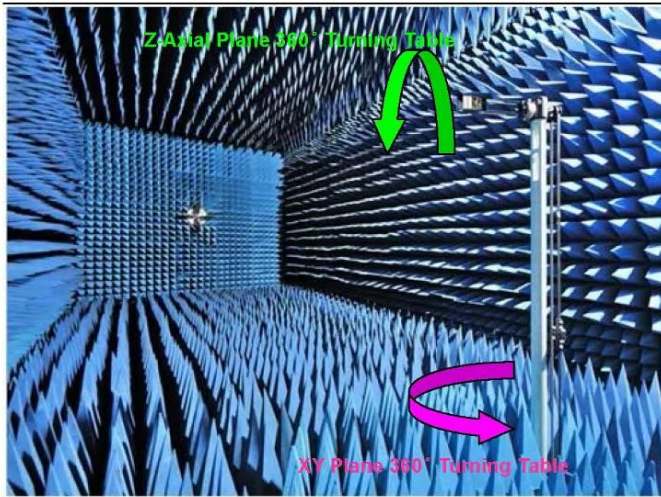
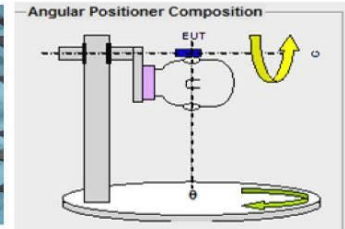
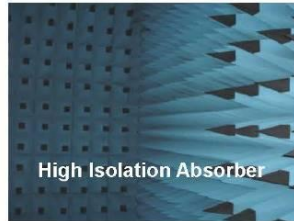
Sample Photo	
	
A. Electrical Characteristics	
Frequency	6000-8000MHz
Impedance	50 Ohm
S.W.R.	<2.0
Antenna Gain	1.9-2.6dBi
Efficiency	≈88%
Polarization	Linear
Horizontal Beamwidth	360°
Vertical Beamwidth	22~86°
Max Power	50W
B. Material & Mechanical Characteristics	
Connector Type	N connector
Dimension	Φ 16*120mm
Weight	0.032Kg
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

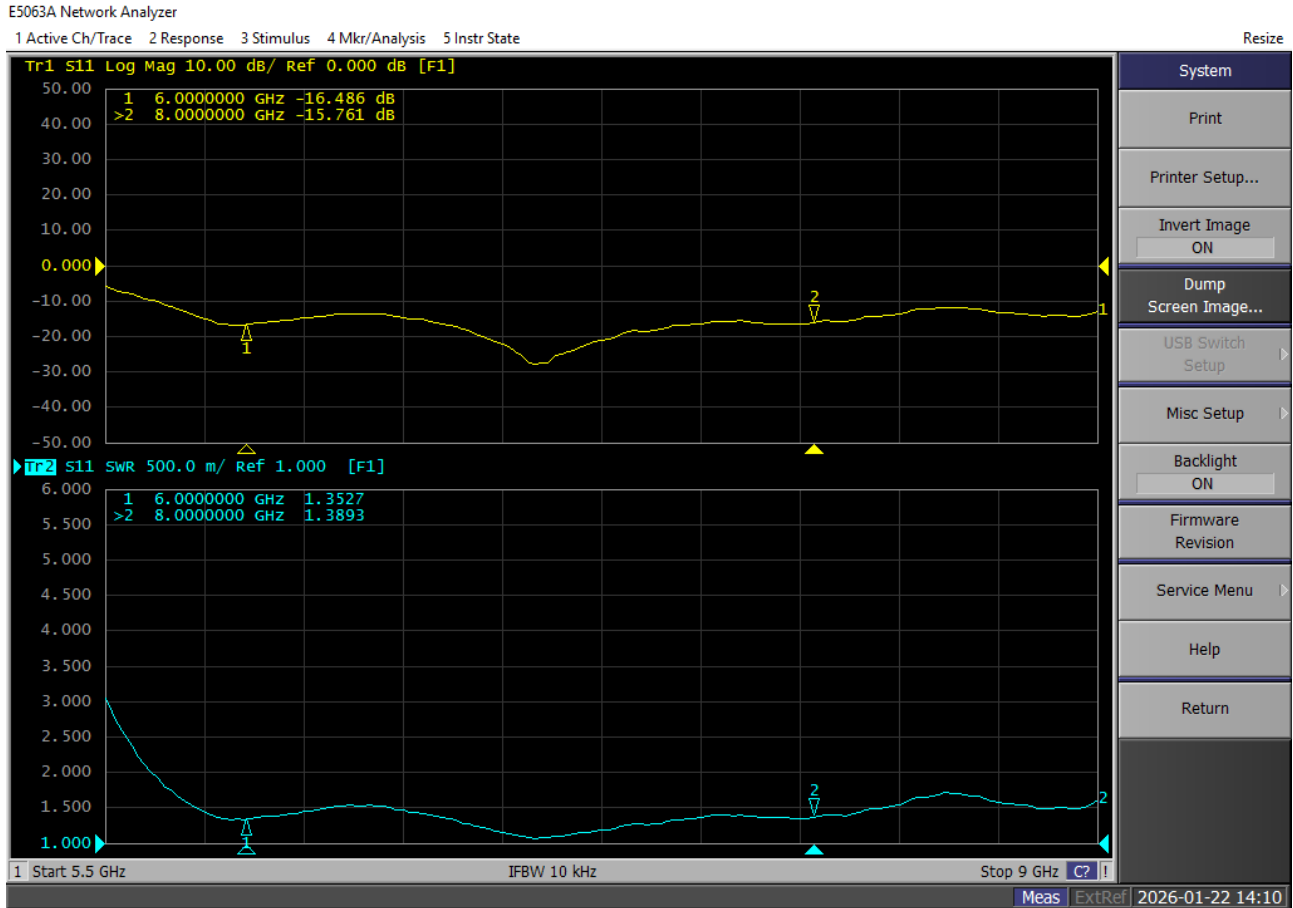


Product Number: BGS-AN8000-16120B

Product Name: 6000-8000MHZ Omnidirectional Fiberglass Antenna

2. Antenna - S Parameter Test Data

2.1. VSWR



Product Number: BGS-AN8000-16120B

Product Name: 6000-8000MHZ Omnidirectional Fiberglass Antenna



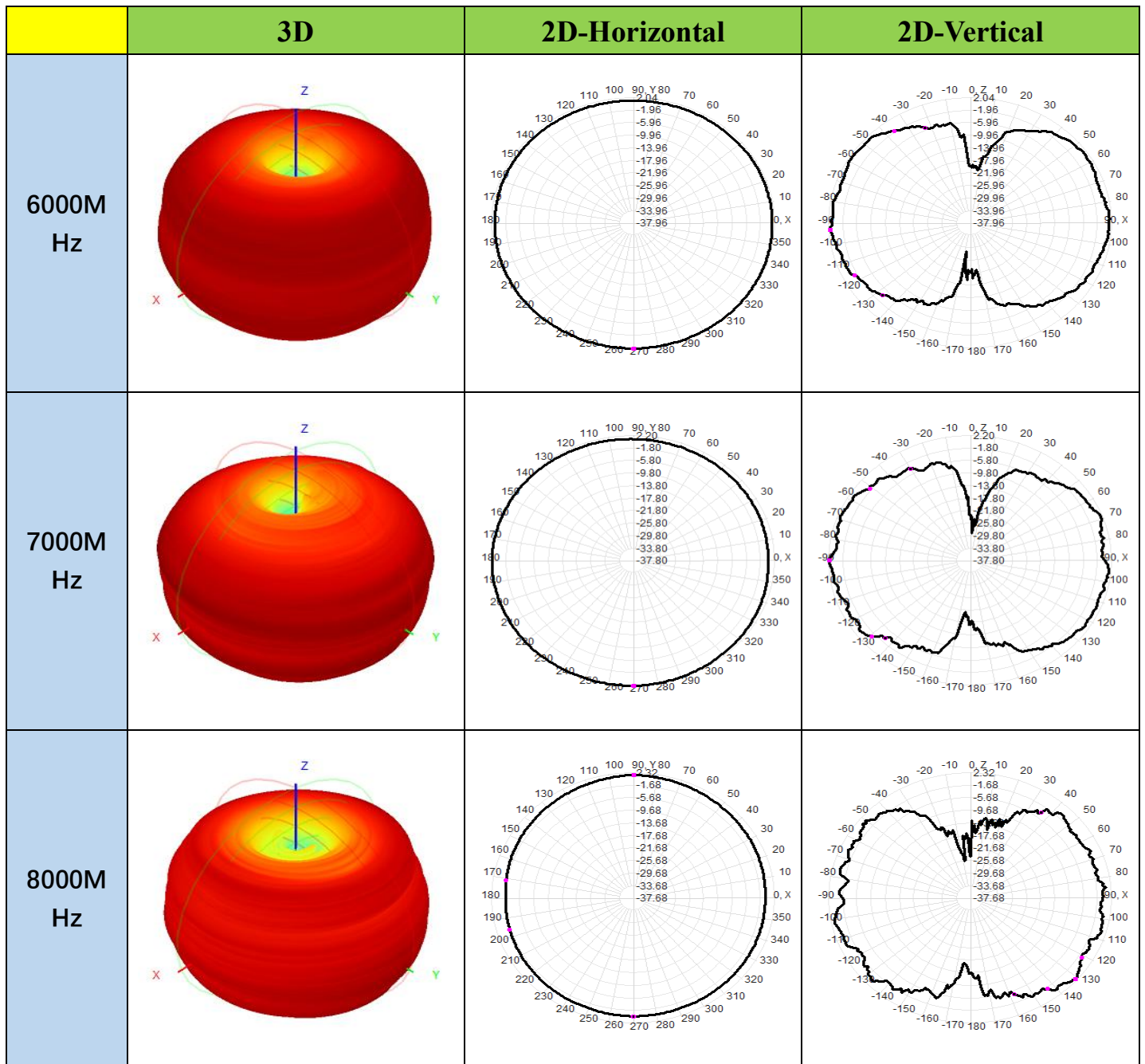
2.2. Total Efficiency & Gain:

Frequency(MHz)	Gain(dBi)	Efficiency(%)
6000	2.0	88.7
6100	2.4	95.7
6200	2.2	93.3
6300	2.2	89.6
6400	2.4	91.4
6500	2.3	94.9
6600	2.3	93.0
6700	2.4	93.6
6800	2.0	85.6
6900	2.2	90.9
7000	2.2	92.5
7100	2.4	90.4
7200	2.4	88.6
7300	2.2	81.3
7400	2.6	87.8
7500	2.2	81.6
7600	2.2	80.9
7700	2.0	79.4
7800	1.9	78.3
7900	2.1	82.9
8000	2.3	85.0

Product Number: BGS-AN8000-16120B

Product Name: 6000-8000MHZ Omnidirectional Fiberglass Antenna

2.3 Radiation Pattern



Product Number: BGS-AN8000-16120B

Product Name: 6000-8000MHZ Omnidirectional Fiberglass Antenna

3. Mechanical Drawing

