




Product Number: BGS-AN6000-95142W
Product Name: 700-6000MHz Fiberglass Antenna

1. Specification

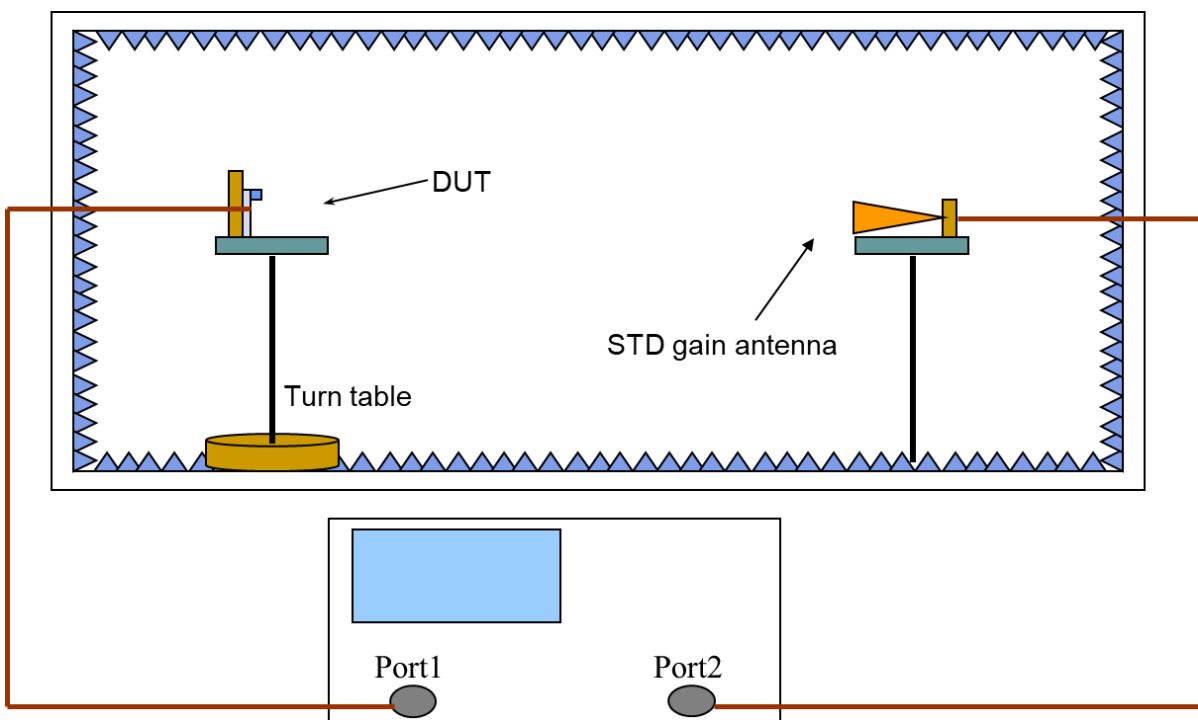
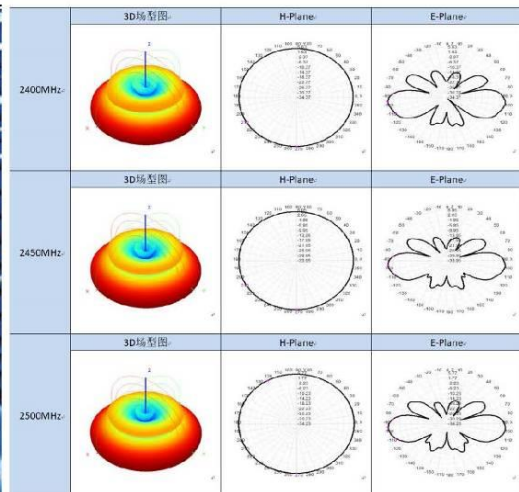
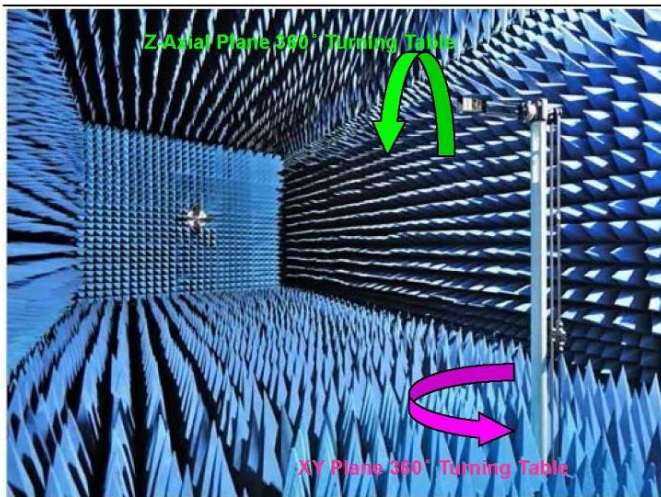
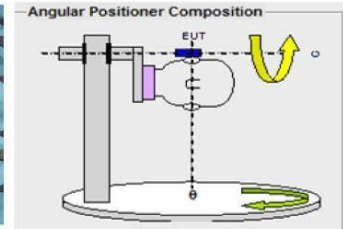
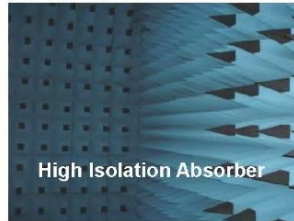
Sample Photo		
		
A. Electrical Characteristics		
Frequency	700-960MHz	1710-6000MHz
S.W.R.	<2.0	<2.0
Efficiency	≈70%	≈80%
Antenna Gain	3dBi	5dBi
Polarization	Linear	Linear
Horizontal Beamwidth	360°	360°
Vertical Beamwidth	27-32°	27-80°
Impedance	50 Ohm	50 Ohm
Max Power	50W	50W
B. Material & Mechanical Characteristics		
Connector Type	N connector	
Dimension	Φ95*142mm	
Weight	0.375Kg	
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

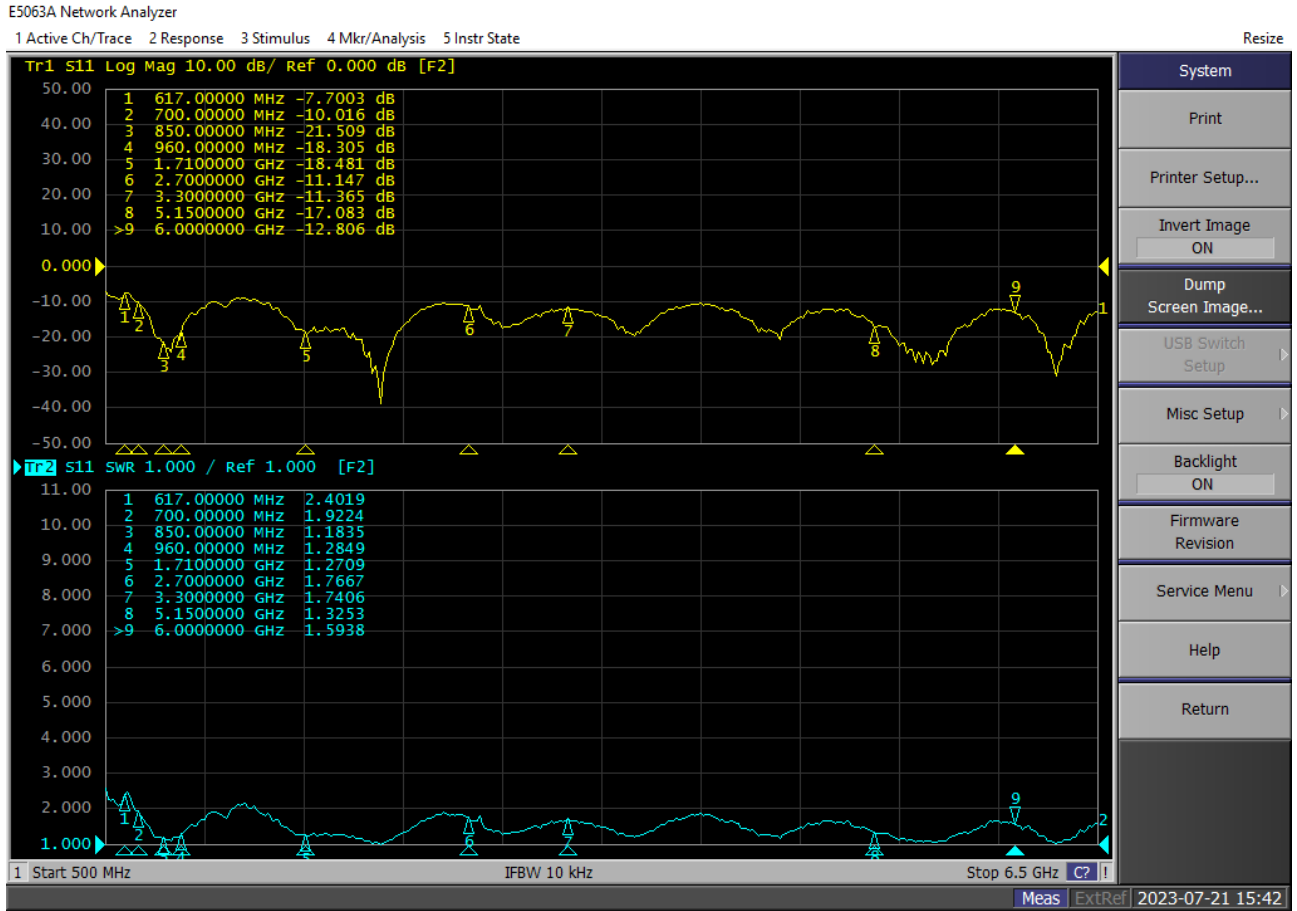




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2. Antenna - S Parameter Test Data

2.1. VSWR





2.2. Total Efficiency & Gain:

Frequency (MHz)	Gain (dBi)	Efficiency (%)	Frequency (MHz)	Gain (dBi)	Efficiency (%)
617.0	2.7	54.8	3100.0	4.9	72.8
618.0	2.7	54.5	3200.0	4.9	74.5
619.0	2.6	53.8	3300.0	4.2	76.3
620.0	2.6	53.1	3400.0	4.2	79.2
630.0	3.1	56.8	3500.0	3.4	73.5
660.0	2.5	57.0	3600.0	4.1	83.7
690.0	3.4	61.7	3700.0	4.8	81.2
720.0	3.3	71.7	3800.0	4.9	85.7
750.0	2.8	79.3	3900.0	5.0	84.5
780.0	2.9	83.7	4000.0	5.0	88.0
810.0	3.0	83.9	4100.0	4.8	82.8
840.0	2.9	76.5	4200.0	4.7	84.6
870.0	3.0	71.3	4300.0	4.6	86.7
900.0	3.2	70.6	4400.0	4.6	85.5
930.0	3.3	77.0	4500.0	4.8	85.4
960.0	3.2	80.2	4600.0	4.7	88.8
1700.0	3.3	73.5	4700.0	4.1	86.6
1800.0	3.0	68.2	4800.0	4.0	91.7
1900.0	3.6	73.3	4900.0	3.3	83.8
2000.0	4.3	79.5	5000.0	3.5	82.7
2100.0	4.1	81.6	5100.0	3.4	79.4
2200.0	3.9	79.5	5200.0	2.9	77.0
2300.0	3.2	76.7	5300.0	4.3	83.3
2400.0	3.1	80.2	5400.0	4.0	75.8
2500.0	3.3	77.9	5500.0	4.5	77.2
2600.0	3.8	71.0	5600.0	4.5	75.5
2700.0	3.8	67.1	5700.0	4.8	79.0
2800.0	4.2	73.3	5800.0	4.7	78.9
2900.0	3.8	75.1	5900.0	4.8	82.6
3000.0	4.6	72.3	6000.0	4.7	89.2



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2.3 Radiation Pattern

	3D	2D-Horizontal	2D-Vertical
617MHz			
810MHz			
960MHz			



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	3D	2D-Horizontal	2D-Vertical
1700M Hz			
2500M Hz			
3000M Hz			



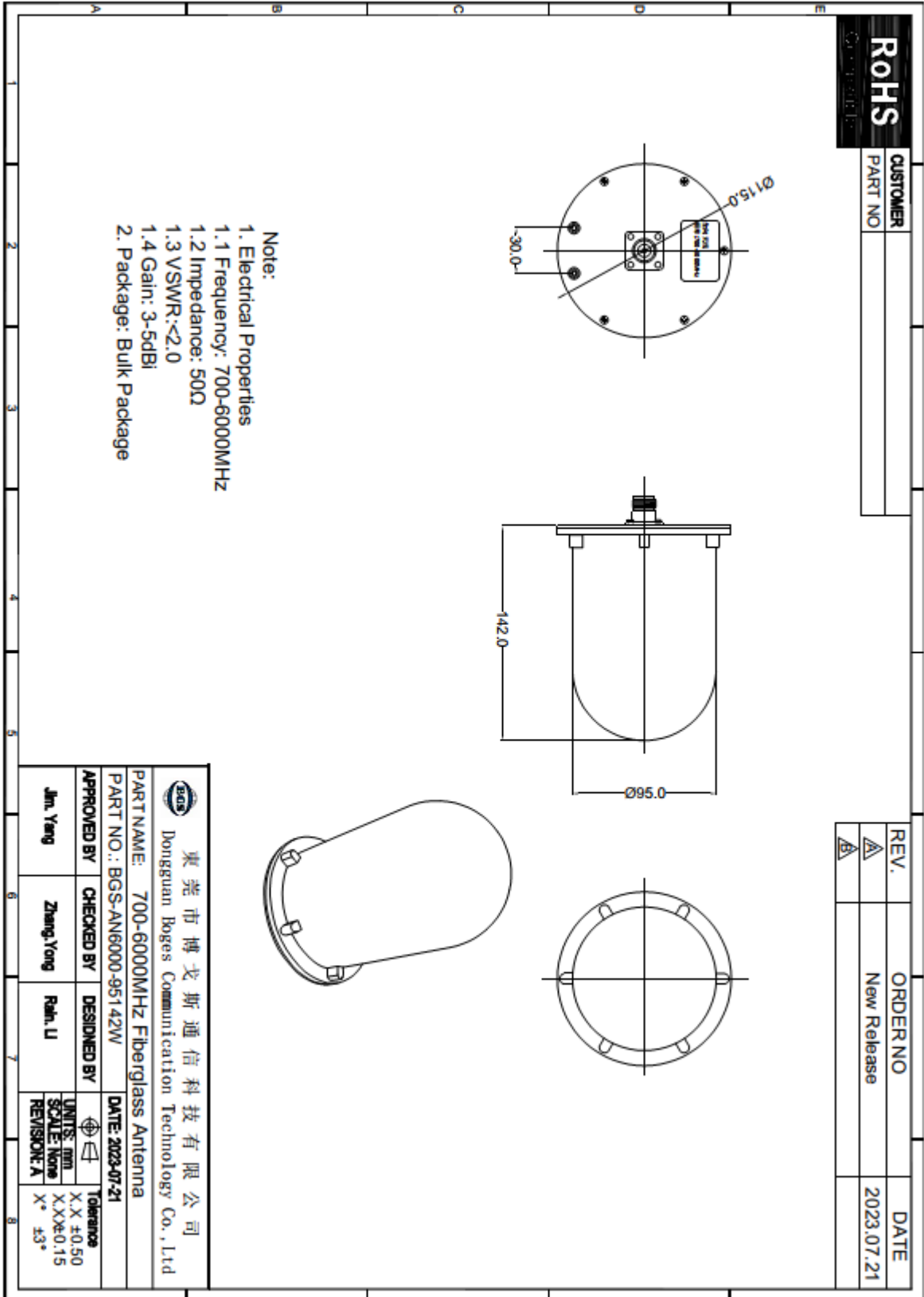
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	3D	2D-Horizontal	2D-Vertical
4000M Hz			
5000M Hz			
6000M Hz			



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3. Mechanical Drawing





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RoHS		CUSTOMER	DATE
PART NO		ORDER NO	2023.07.21
REV.		New Release	

Antenna

L Bracket

U Bolt

Mount Pole (Ø30-Ø50)

L Bracket

U Bolt

BGS		东莞市博戈斯通信科技有限公司	
Dongguan Boges Communication Technology Co., Ltd		Antenna Accessories	
PART NO.: BGS-AN6000-95142W		DATE: 2023-07-21	
APPROVED BY	CHECKED BY	DESIGNED BY	Tolerance
Jin Yang	Zhang Yong	Rahn U	X X ±0.50
UNITS: mm		SCALE: None	
REVISION: A		X° ±3°	