


## 1. Specification

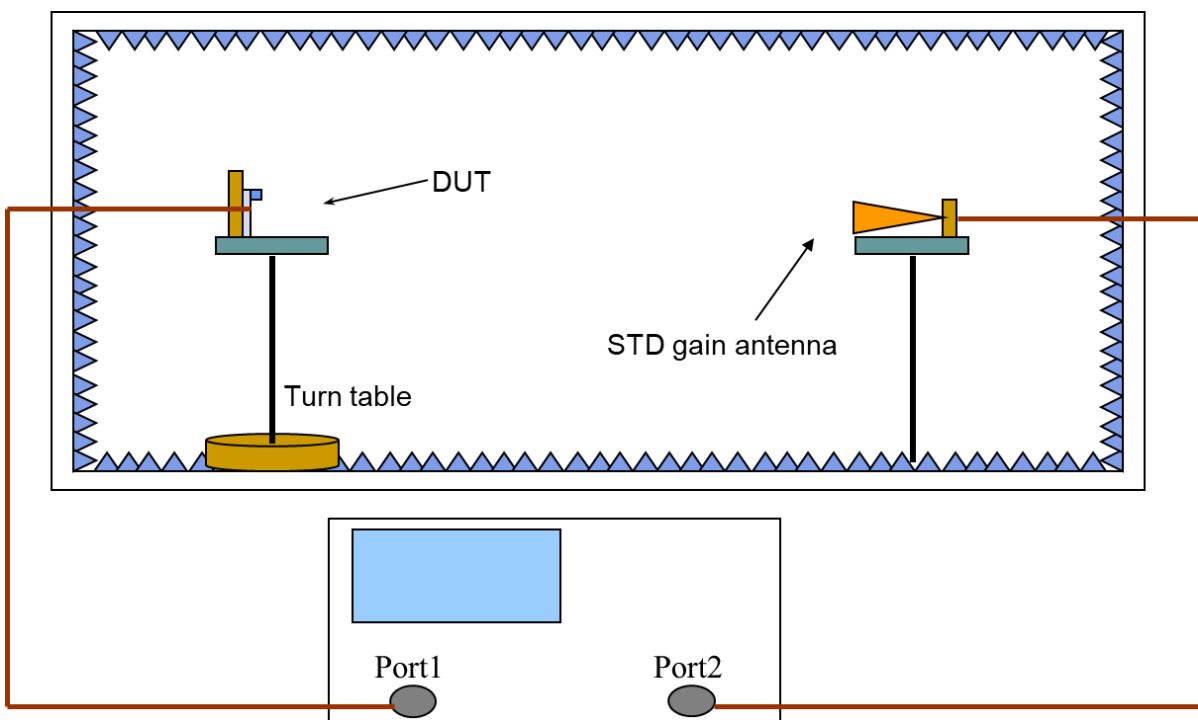
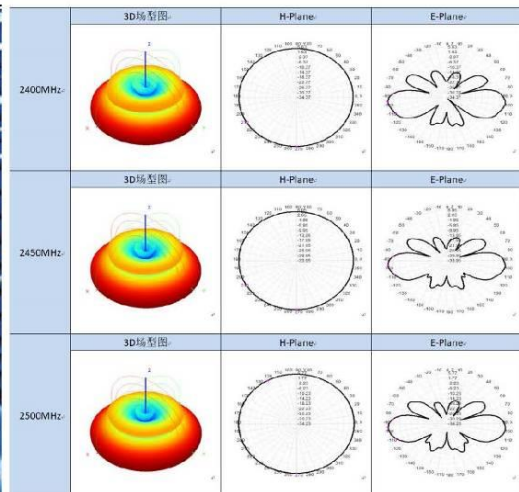
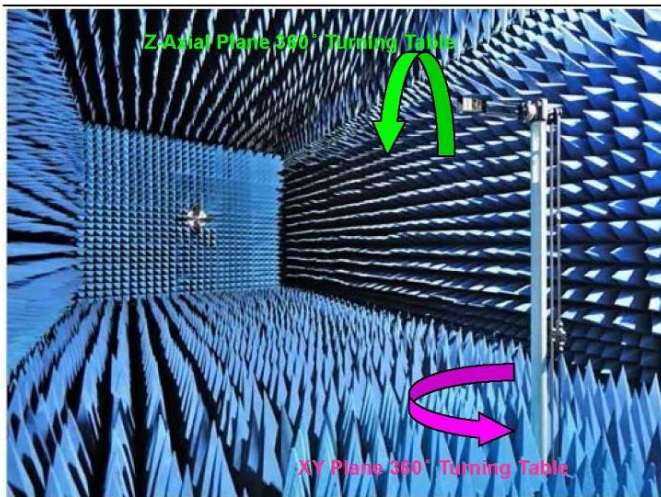
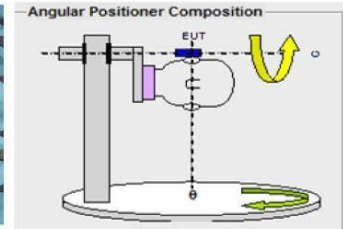
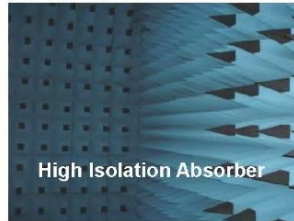
Sample Photo	
	
A. Electrical Characteristics	
Frequency	0-6000MHz
Impedance	50 Ohm
S.W.R.	<2
Gain	2dBi
Efficiency	≈33%
Horizontal Beamwidth	360°
Polarization	Linear
Max Power	50W
B. Material & Mechanical Characteristics	
Connector Type	N connector
Dimension	Φ38*400mm
Weight	0.585Kg
Radome material	Fiberglass
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 m<sup>3</sup>
- .Freq. Range: 0.4 ~ 18.0 GHz
- .Double Ridge Horn Antenna
- .VNA: Agilent E5071C
- .3D Turning Table and Positioner
- .ADT Solution 3D Testing Software

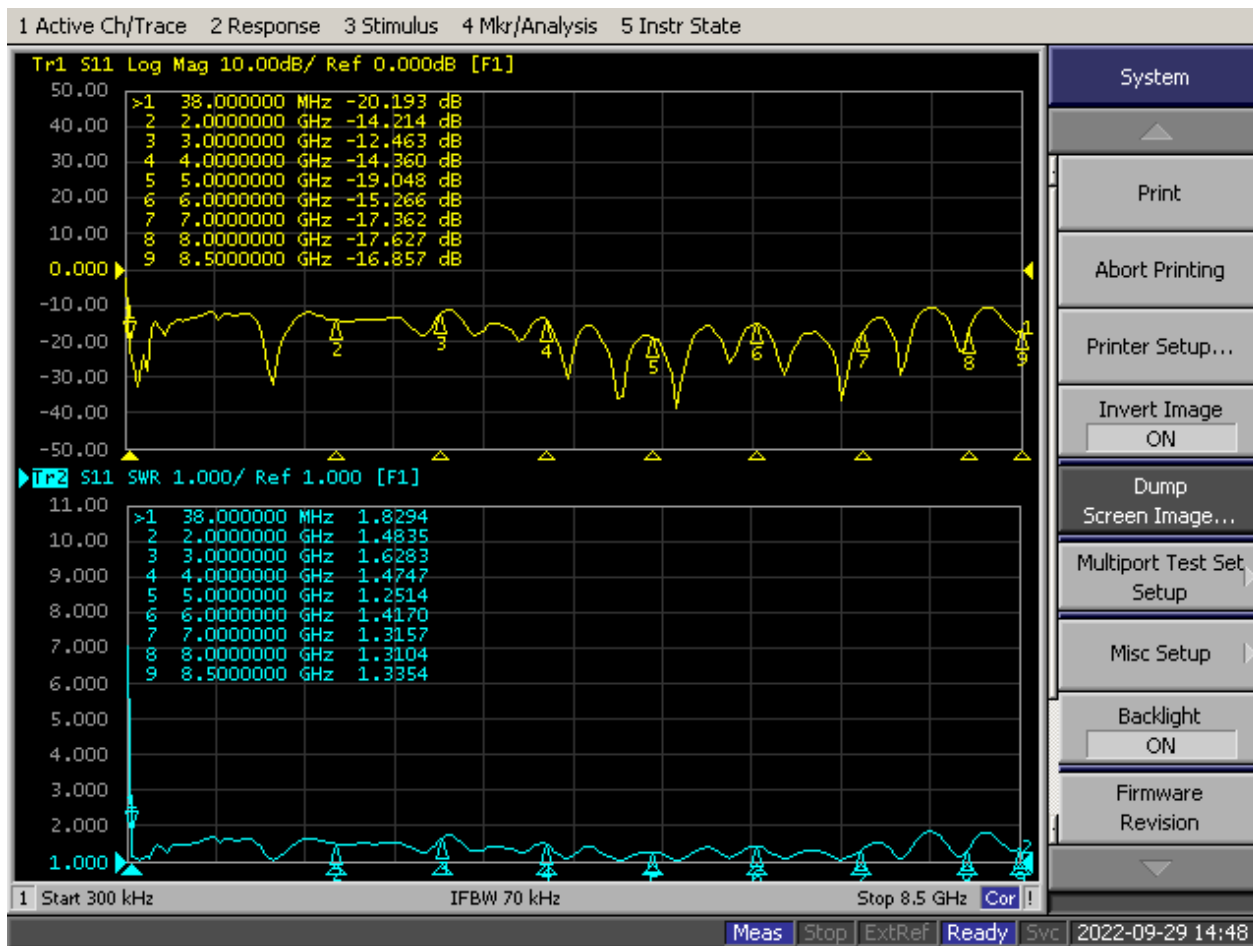




Product Number: BGS-AN6000-38400B  
Product Name: 0-6GHz Fiberglass Antenna

## 2. Antenna - S Parameter Test Data

### 2.1. VSWR





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## 2.2 Total Efficiency & Gain:

Frequency (MHz)	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900
Gain (dBi)	-1.49	-2.17	-4.10	-1.63	-2.69	0.14	-1.70	-0.04	0.01	0.90	1.21	1.62	0.63	0.56	0.97	-0.01
Efficiency (%)	43.90	35.65	21.96	34.20	31.72	39.11	33.33	40.01	41.58	48.41	47.24	44.65	44.99	38.32	39.03	39.01

Frequency (MHz)	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500
Gain (dBi)	0.87	0.95	0.41	0.40	0.52	-0.31	0.97	1.03	0.47	-0.38	0.22	0.52	0.74	2.11	0.82	2.13
Efficiency (%)	41.71	39.48	37.03	38.41	40.21	34.81	32.26	35.50	35.66	38.85	30.37	32.73	32.94	34.52	39.81	37.94

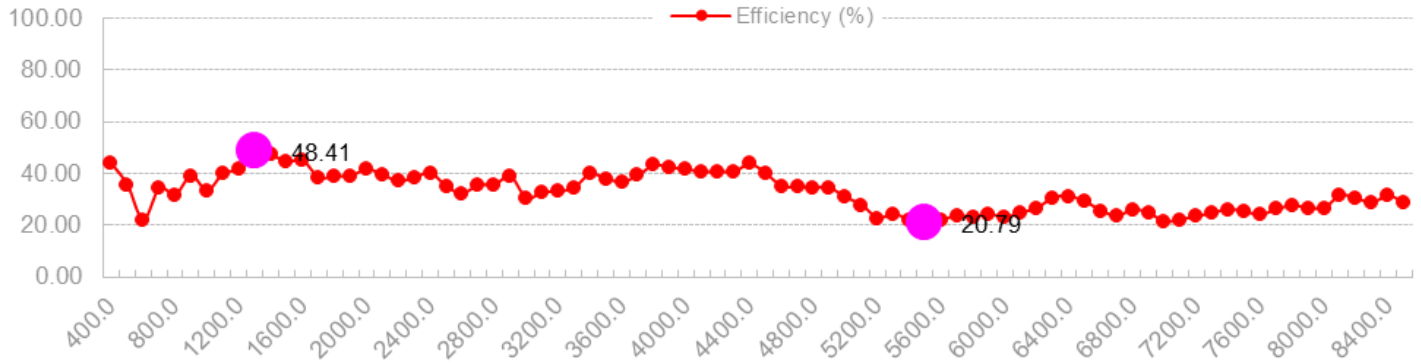
Frequency (MHz)	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000	5100
Gain (dBi)	1.20	0.70	0.39	0.66	0.60	1.06	0.54	1.54	1.76	1.17	0.38	0.19	-0.53	-1.46	-0.84	-1.71
Efficiency (%)	36.69	39.28	43.29	42.16	41.71	40.54	40.80	40.61	43.72	39.93	35.09	34.68	34.50	34.35	30.68	27.72

Frequency (MHz)	5200	5300	5400	5500	5600	5700	5800	5900	6000	6100	6200	6300	6400	6500	6600	6700
Gain (dBi)	-2.39	-1.88	-2.39	-3.09	-2.29	-2.22	-3.34	-3.13	-2.43	-1.46	-0.87	-1.37	-1.42	-1.99	-2.32	-2.52
Efficiency (%)	22.63	24.19	22.03	20.79	22.02	23.44	23.20	23.90	23.09	24.74	26.66	30.58	31.11	29.03	25.55	23.38

Frequency (MHz)	6800	6900	7000	7100	7200	7300	7400	7500	7600	7700	7800	7900	8000	8100	8200	8300
Gain (dBi)	-2.06	-1.88	-2.33	-2.94	-2.45	-1.48	-1.49	-1.60	-1.56	-0.76	-0.73	-0.30	-0.56	-0.44	-0.90	-0.66
Efficiency (%)	26.04	24.52	21.25	22.07	23.32	24.66	25.98	25.16	23.87	26.15	27.43	26.55	26.69	31.61	30.14	28.77



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### 2.3 Radiation Pattern

	3D	2D-Horizontal	2D-Vertical
400MHz			
800MHz			
1800M Hz			



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	3D	2D-Horizontal	2D-Vertical
2100M Hz			
2700M Hz			
3500M Hz			



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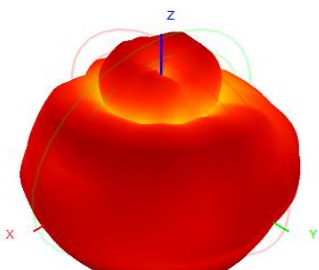
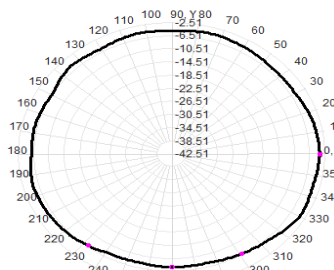
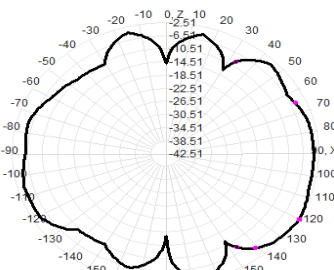
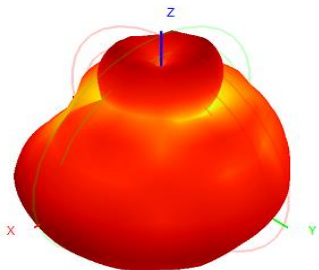
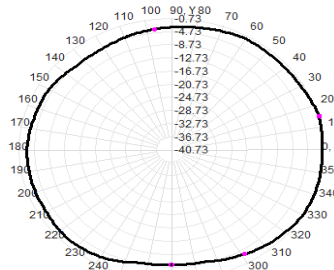
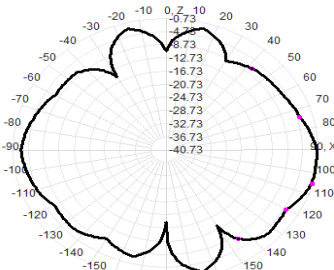
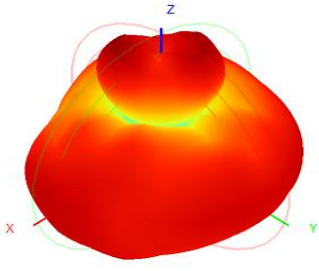
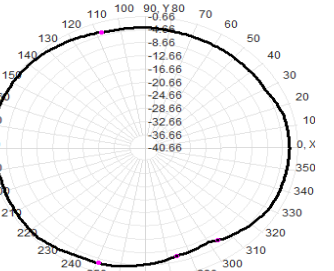
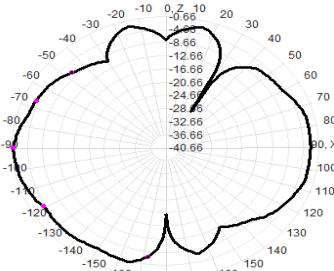
	3D	2D-Horizontal	2D-Vertical
4200M Hz			
5000M Hz			
5800M Hz			





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	3D	2D-Horizontal	2D-Vertical
6000M Hz			
6800M Hz			
7000M Hz			

	3D	2D-Horizontal	2D-Vertical
7200M Hz			
7800M Hz			
8300M Hz			



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### 3. Mechanical Drawing

