


1. Specification

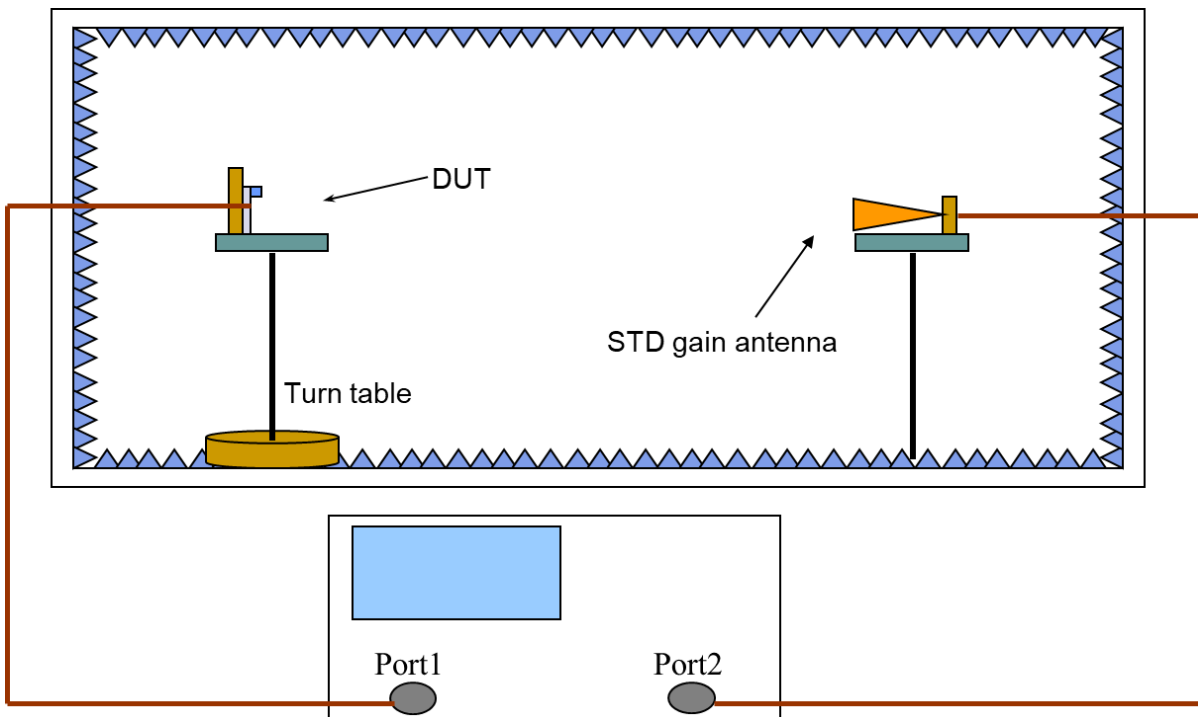
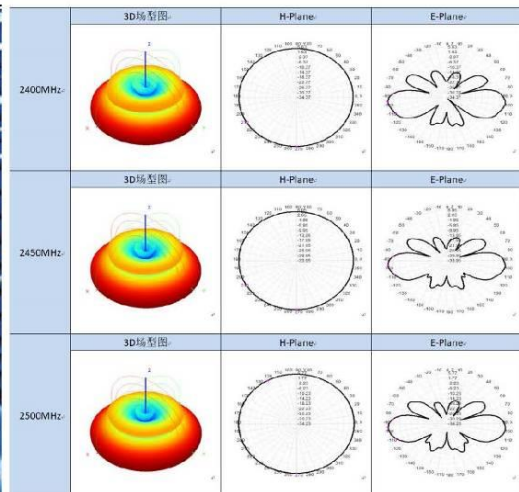
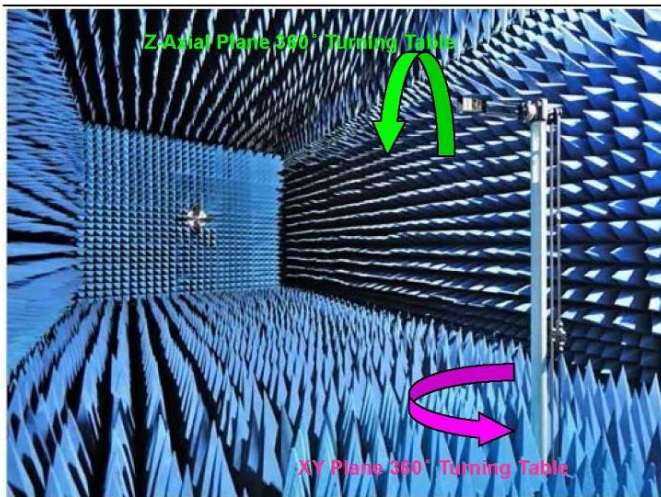
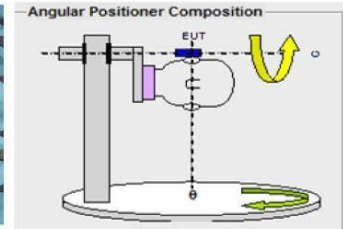
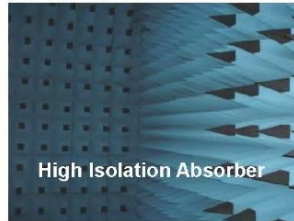
Sample Photo		
		
A. Electrical Characteristics		
Frequency	700-960MHz	1710-2700MHz
S.W.R.	<4.6	<2.0
Antenna Gain	2.3dBi	4.2dBi
Efficiency	≈50%	≈50%
Polarization	Linear	
Impedance	50 Ohm	
Max Power	50W	
B. Material & Mechanical Characteristics		
Cable Type	RF1.13 Cable	
Connector Type	MHF1 Plug	
Dimension	30*20mm	
Weight	0.001Kg	
C. Environmental		
Operation Temperature	- 40 °C ~ + 65 °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 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-AN4000-3020B-0075
Product Name: WIFI Embedded Antenna

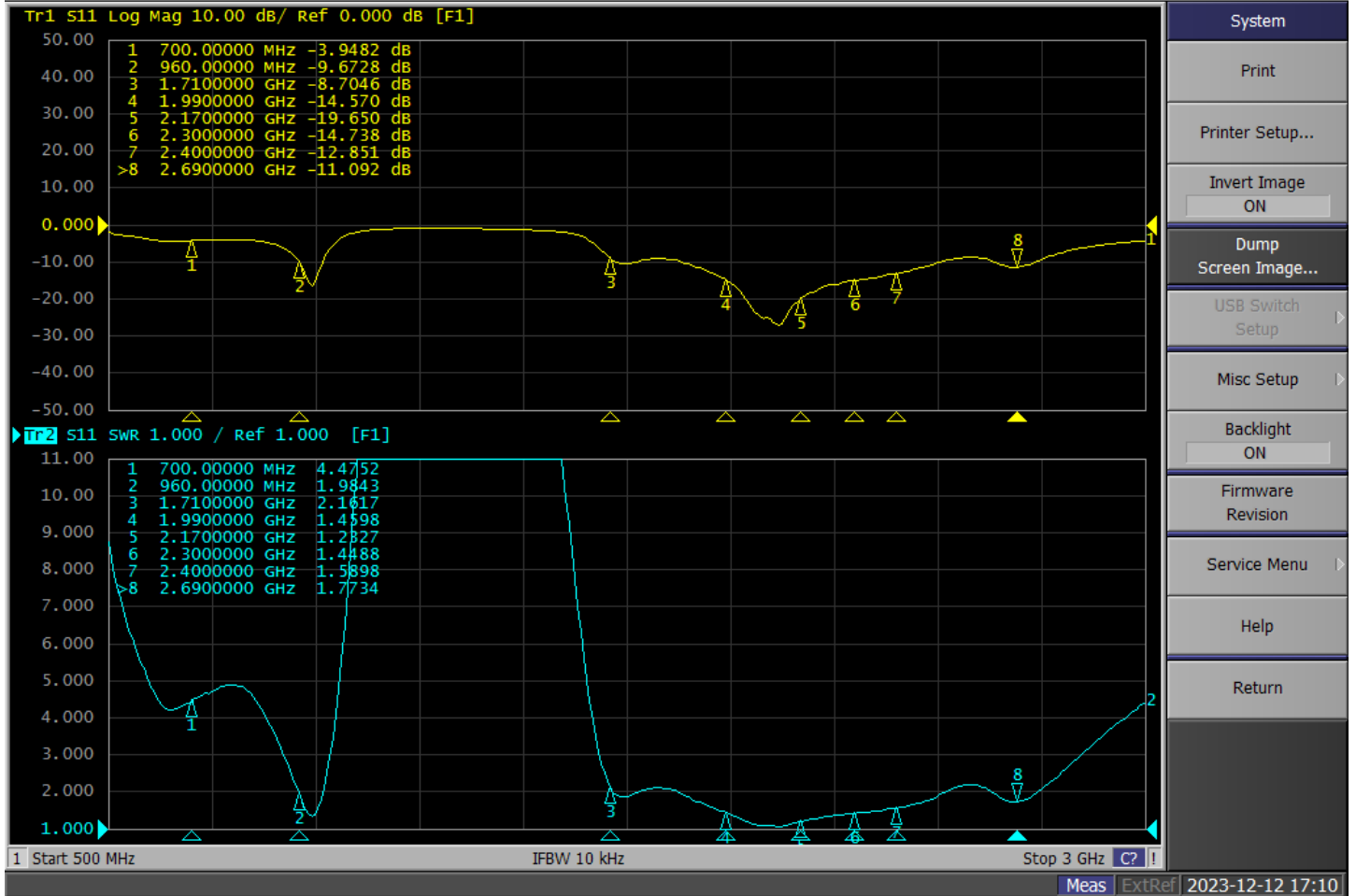
2. Antenna - S Parameter Test Data

2.1. VSWR

E5063A Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

Resize



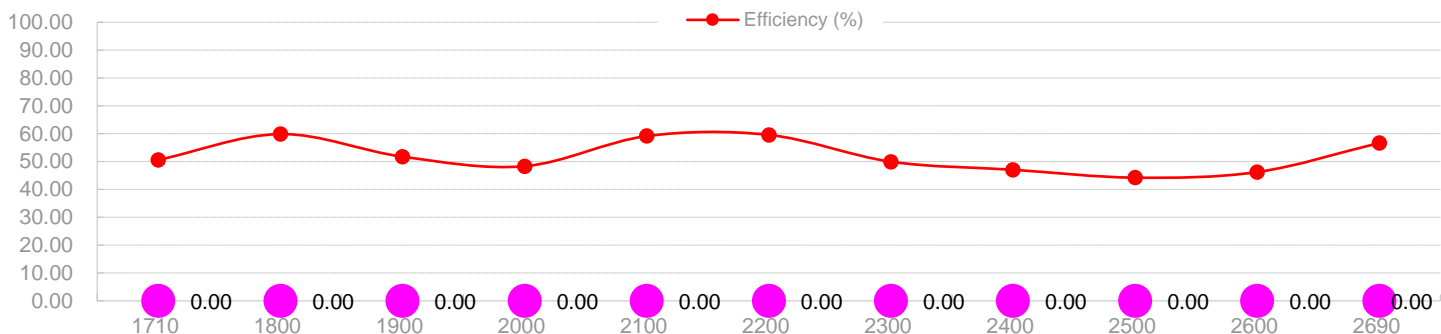


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2.2. Total Efficiency & Gain:

Frequency (MHz)	700	720	740	760	780	800	820	840	860	880	900	920	940	960
Gain (dBi)	-2.84	-2.87	-2.46	-2.16	-2.42	-1.56	-1.41	-1.77	-1.76	-1.08	-0.36	0.28	2.17	2.32
Efficiency (%)	23.35	23.42	27.17	31.02	30.82	33.02	33.33	29.57	27.9	31.83	36.31	38.3	53.76	55.32

Frequency (MHz)	1710	1800	1900	2000	2100	2200	2300	2400	2500	2600	2690
Gain (dBi)	2.21	3.01	3.06	3.27	4.23	3.68	2.97	3.08	3.18	3.67	3.74
Efficiency (%)	50.59	59.86	51.75	48.32	59.14	59.57	49.95	47.05	44.23	46.24	56.66





Product Number: BGS-AN4000-3020B-0075

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2.3 Radiation Pattern

	3D	2D-水平面	2D-垂直面
700MHz			
800MHz			
960MHz			



	3D	2D-水平面	2D-垂直面
1700M Hz			
2400M Hz			
2690M Hz			



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3. Mechanical Drawing

