

1. Specification

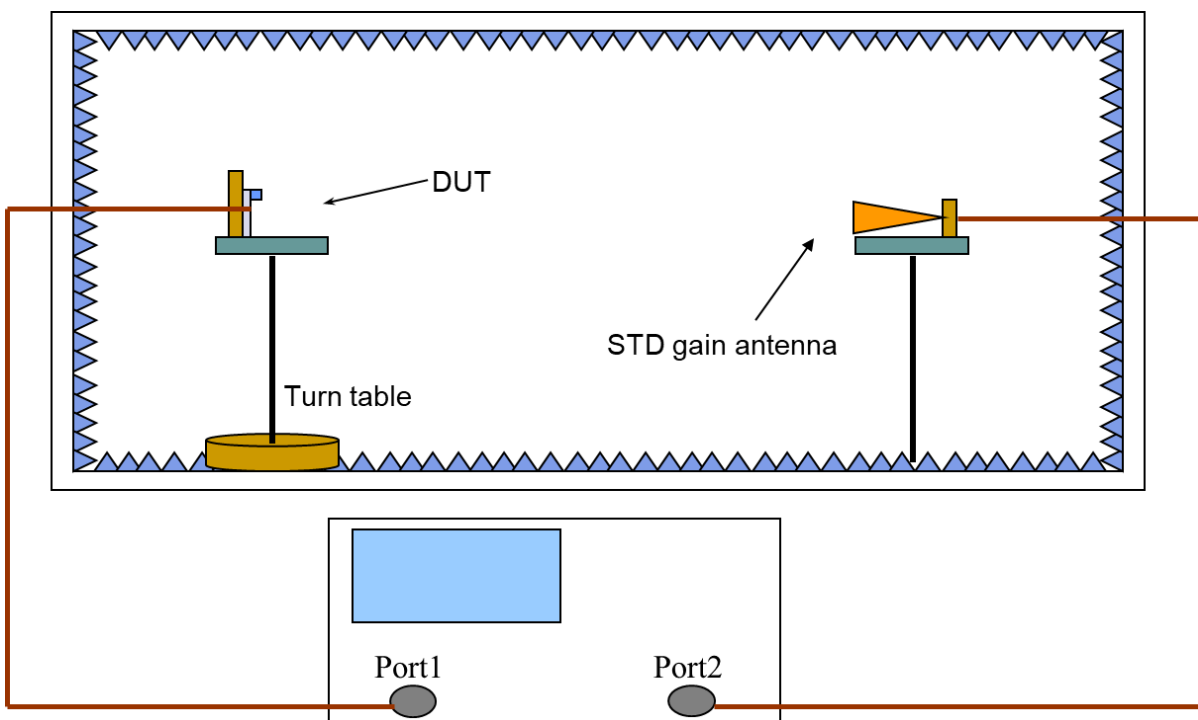
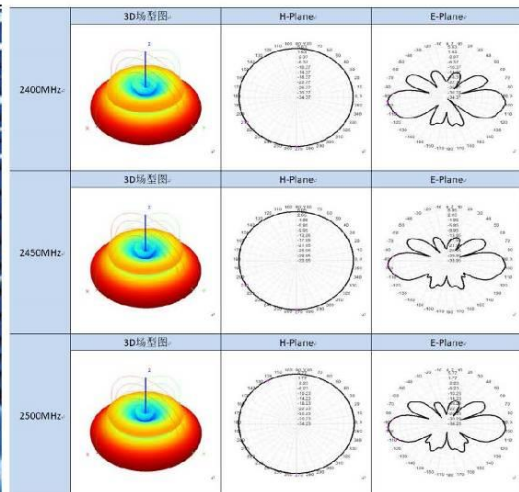
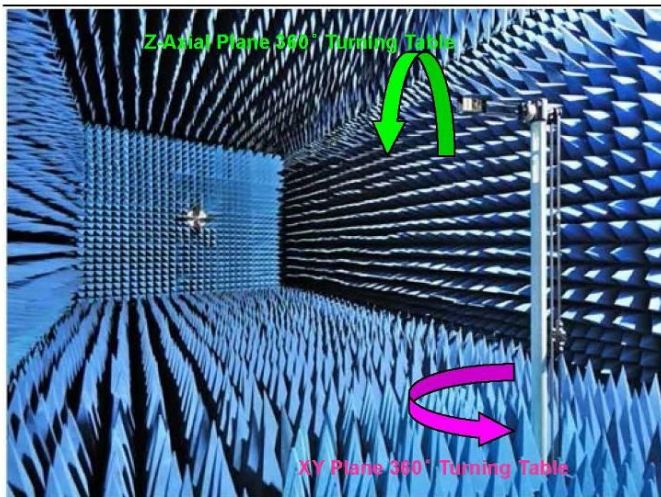
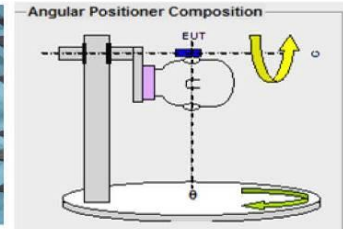
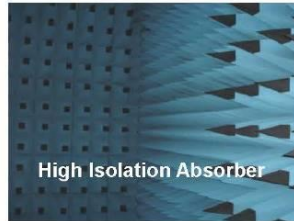
Sample Photo	
	
A. Electrical Characteristics	
Frequency	617-960MHZ, 1575-2690MHZ, 3300-6000MHZ
S.W.R.	≤ 3.0
Antenna Gain	2.0dBi @ 617-960MHZ 2.0dBi @ 1575-2690MHZ 2.5dBi @ 3300-6000MHZ
Efficiency	$\approx 65\%$
Polarization	Linear
Impedance	50 Ohm
B. Material & Mechanical Characteristics	
Connector Type	SMA Plug
Dimension	10*135.6mm
Weight	0.01Kg
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 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

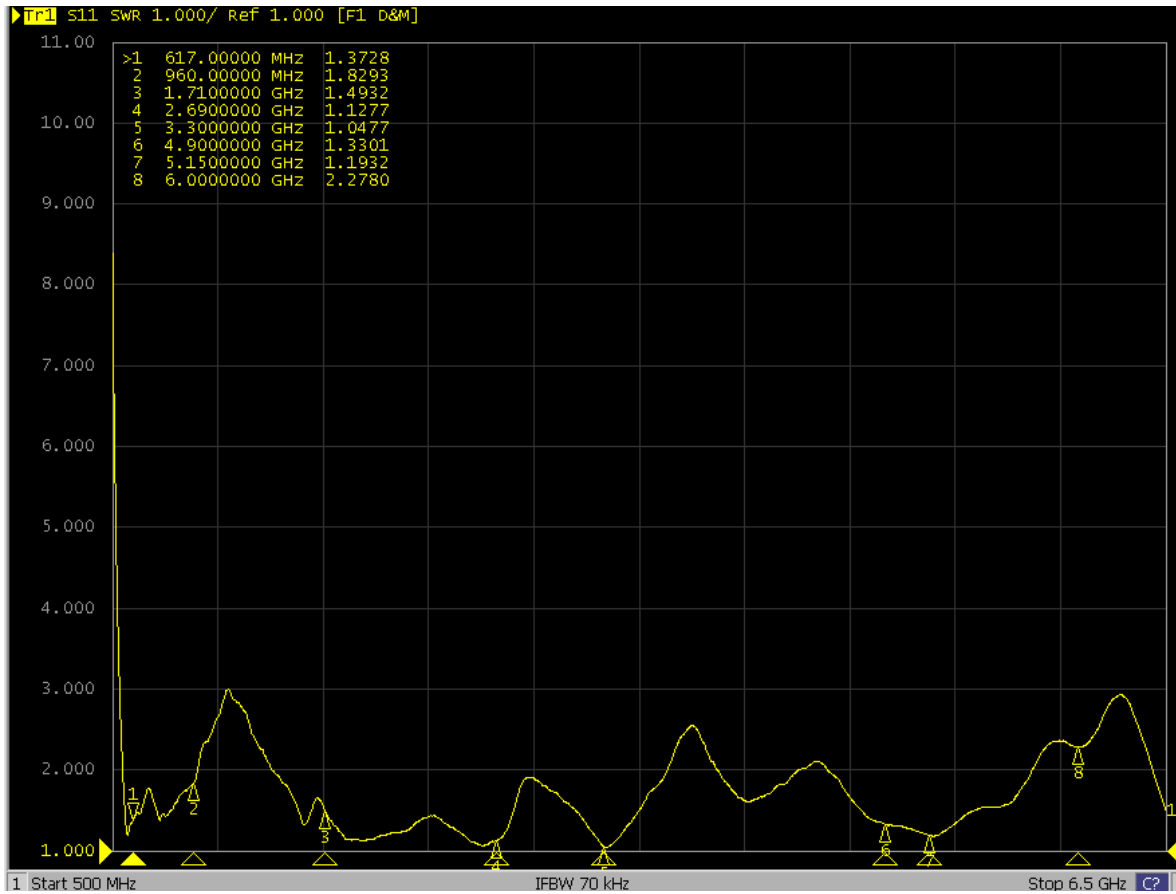




Product Number: BGS-AN5000-10135B
Product Name: 5G External Antenna

2. Antenna - S Parameter Test Data

2.1. VSWR





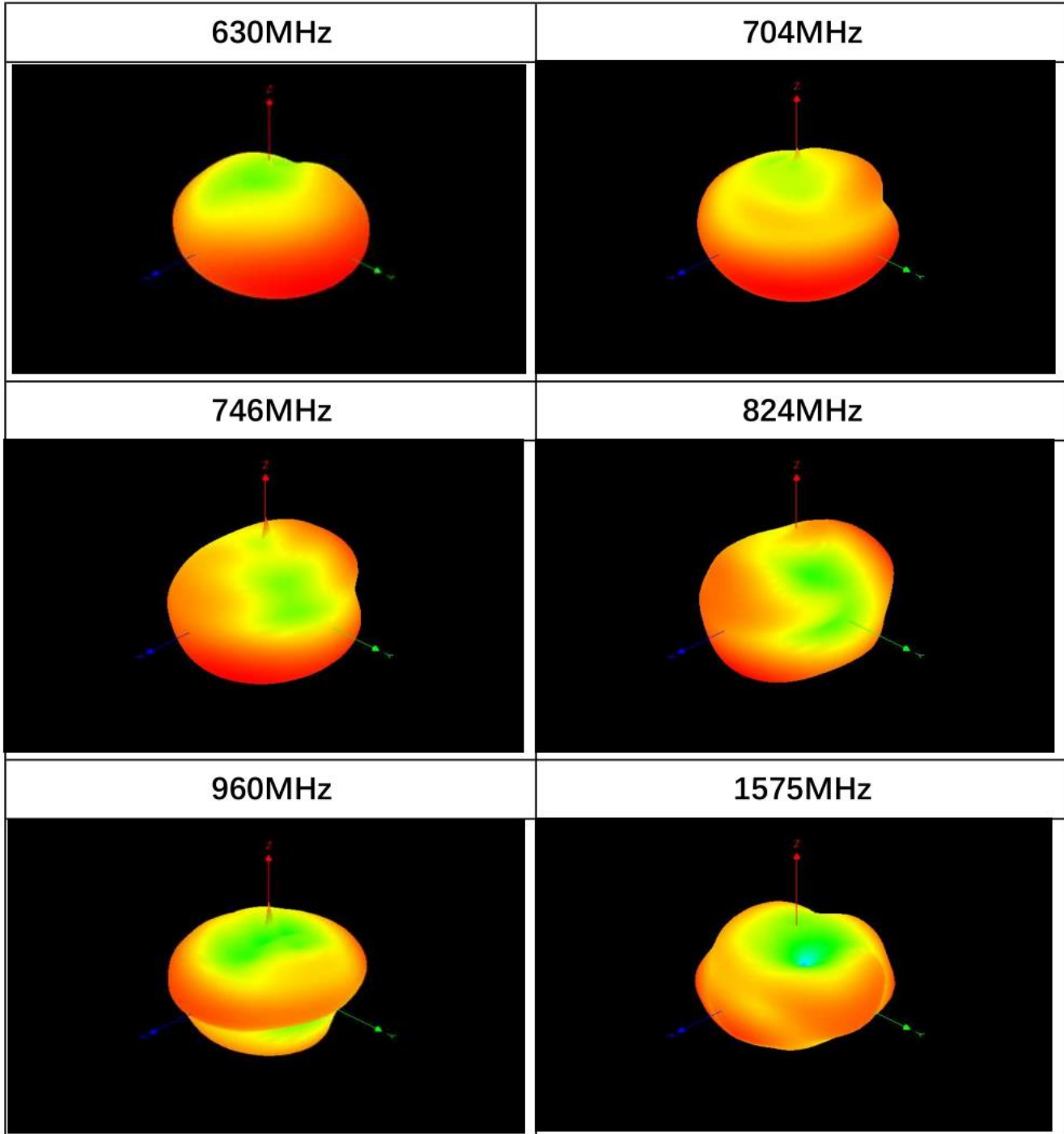
Product Number: BGS-AN5000-10135B

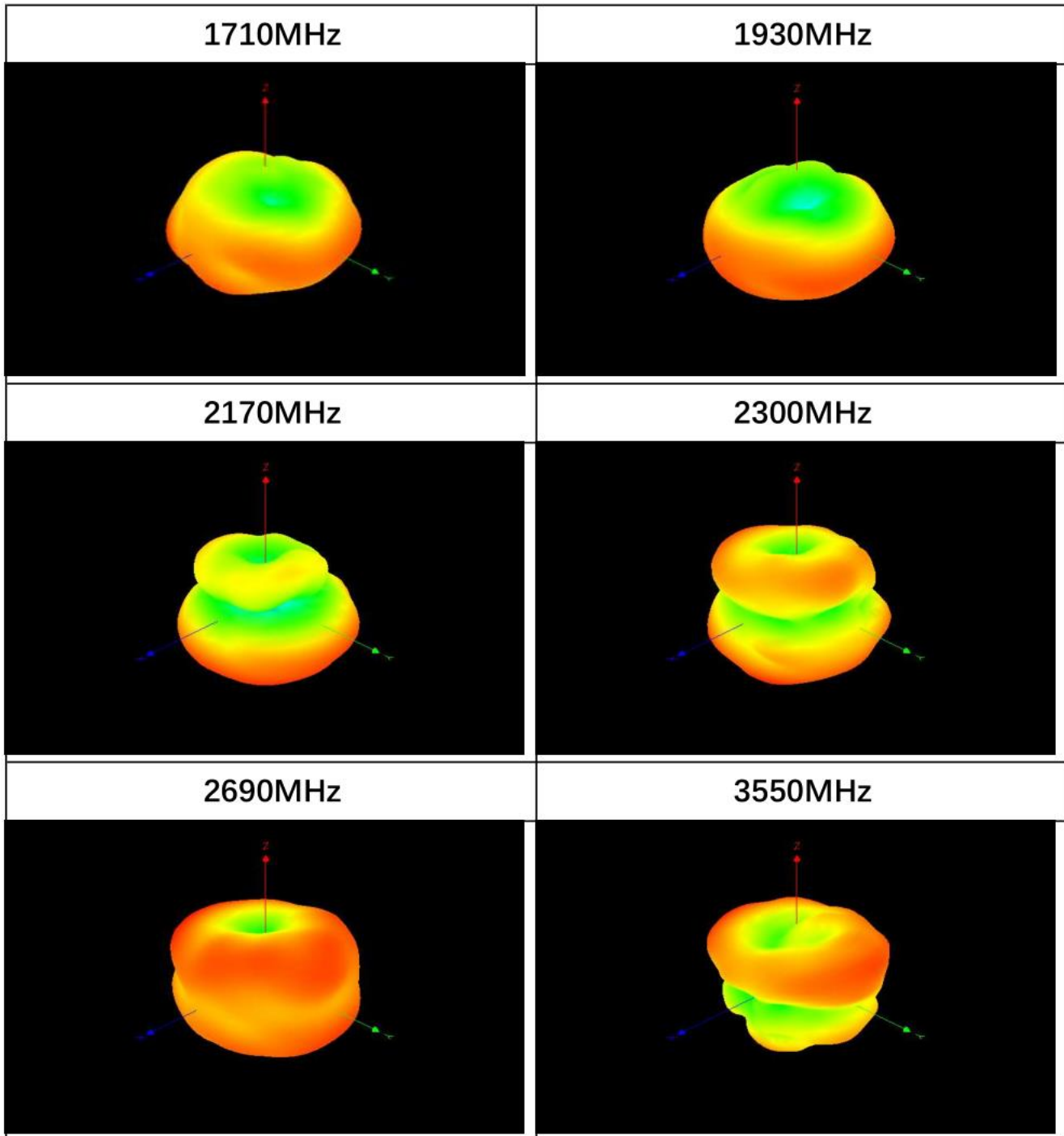
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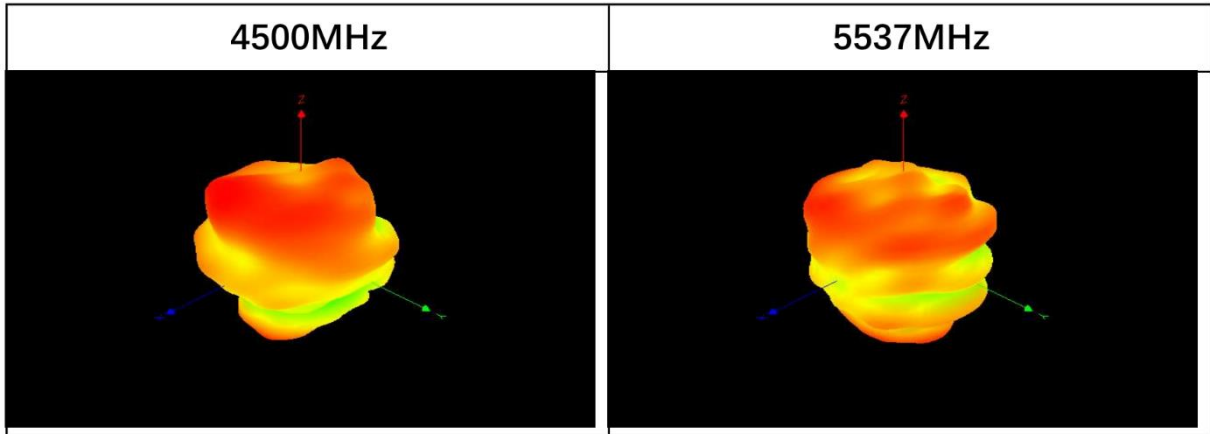
2.2. Total Efficiency & Gain:

Frequency MHz	Efficiency %	Peak Gain dBi
617	41.33	3.09
670	44.85	3.22
698	46.87	3.44
704	51.52	3.31
798	55.67	3.78
814	55.63	2.92
824	54.66	2.83
832	54.83	2.94
880	55.55	2.65
894	57.22	2.74
960	58.63	3.31
1575	52.09	2.85
1710	72.95	4.03
1850	70.64	3.84
1900	76.66	3.54
1920	73.72	3.89
1980	70.56	3.26
1995	73.29	3.44
2170	67.46	3.93
2200	64.55	3.77
2300	61.09	-1.89
2305	63.47	-2.07
2360	63.39	-1.88
2496	62.57	2.77
2500	62.15	2.41
2570	70.95	2.66
2690	70.34	2.19
3300	69.25	-1.92
3400	63.66	-1.99
3552	92.26	-2.21
3600	69.33	-1.95
3690	66.48	-2.01
3700	63.58	-2.16
3800	62.35	-1.9
4200	63.66	2.33
4400	57.71	1.23
4800	59.35	2.98
5550	65.28	2.68
6000	60.62	2.65

2.3 Radiation Pattern









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3. Mechanical Drawing

