Product Number: BGS-AN4000-13206B
Product Name: 4G LTE External Antenna

1. Specification

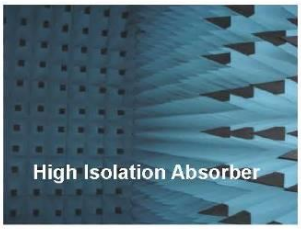
Sample Photo		
		
A. Electrical Characteristics		
Frequency	**700-960MHz**	**1710-2700MHz**
S.W.R.	**<= 3.5**	**<= 2.5**
Antenna Gain	**3dBi**	**5dBi**
Efficiency	**≈50%**	**≈60%**
Polarization	**Linear**	**Linear**
Impedance	**50 Ohm**	**50 Ohm**
B. Material & Mechanical Characteristics		
Connector Type	**SMA Connector**	
Dimension	**¢13*206mm**	
Color	**Light Black**	
Weight	**0.05Kg**	
C. Environmental		
Operation Temperature	**- 40 ˚C ~ + 80 ˚C**	
Storage Temperature	**- 40 ˚C ~ + 80 ˚C**	

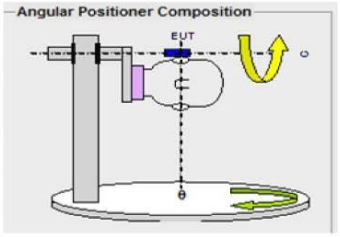
Test Equipment & Conditions

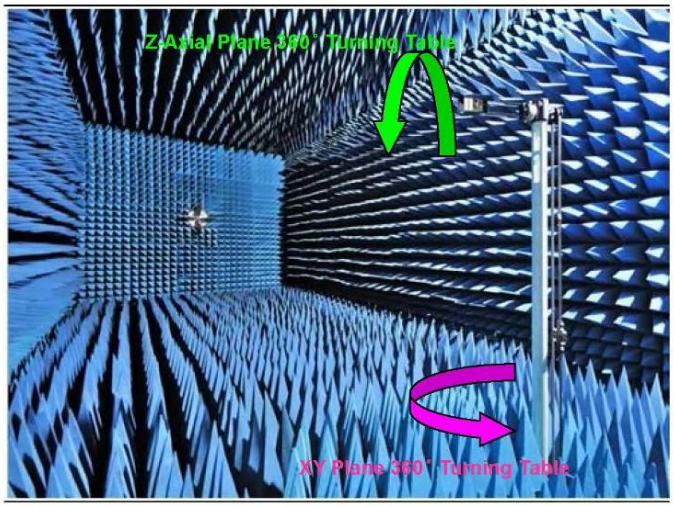
1. Network Analyzer: Keysight E5071C

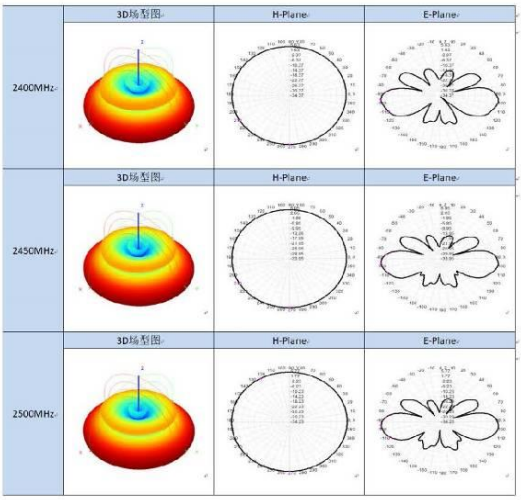
2. 3D Chamber Test System

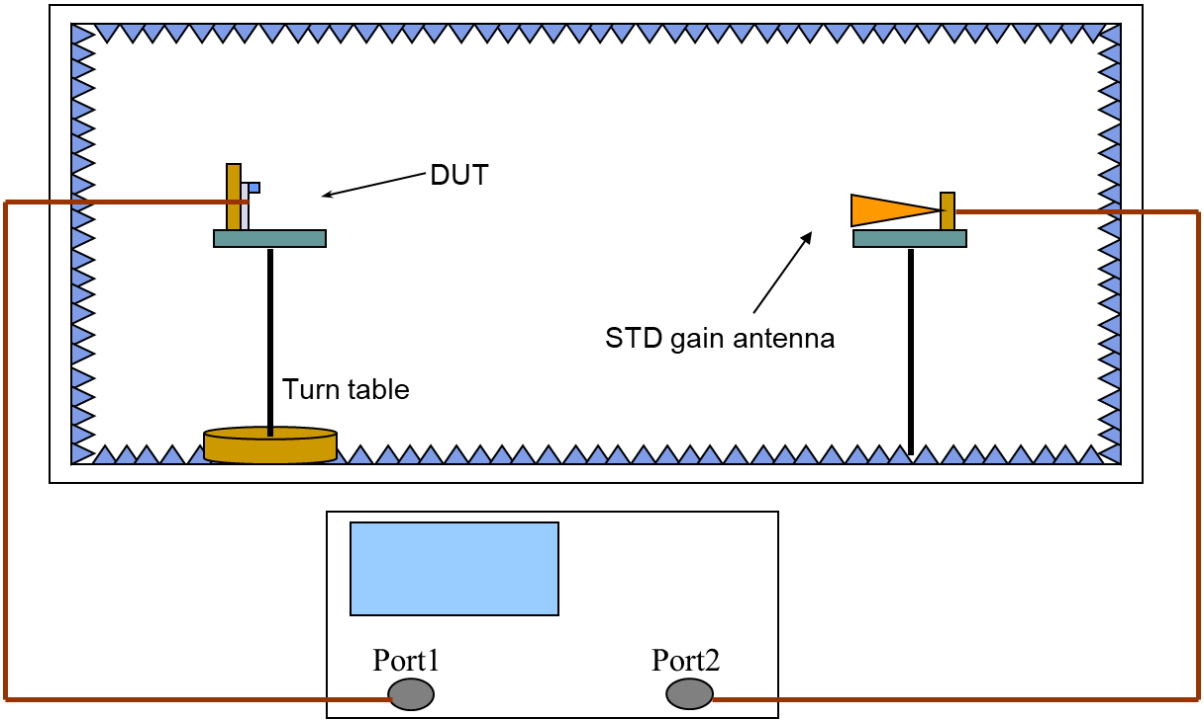
.Chamber Size: 9 x 5 x 4 m³
.Freq. Range: 0.4 ~ 18.0 GHz
.Double Ridge Horn Antenna
.VNA: Agilent E5071C
.3D Turning Table and Positioner
.ADT Solution 3D Testing Software





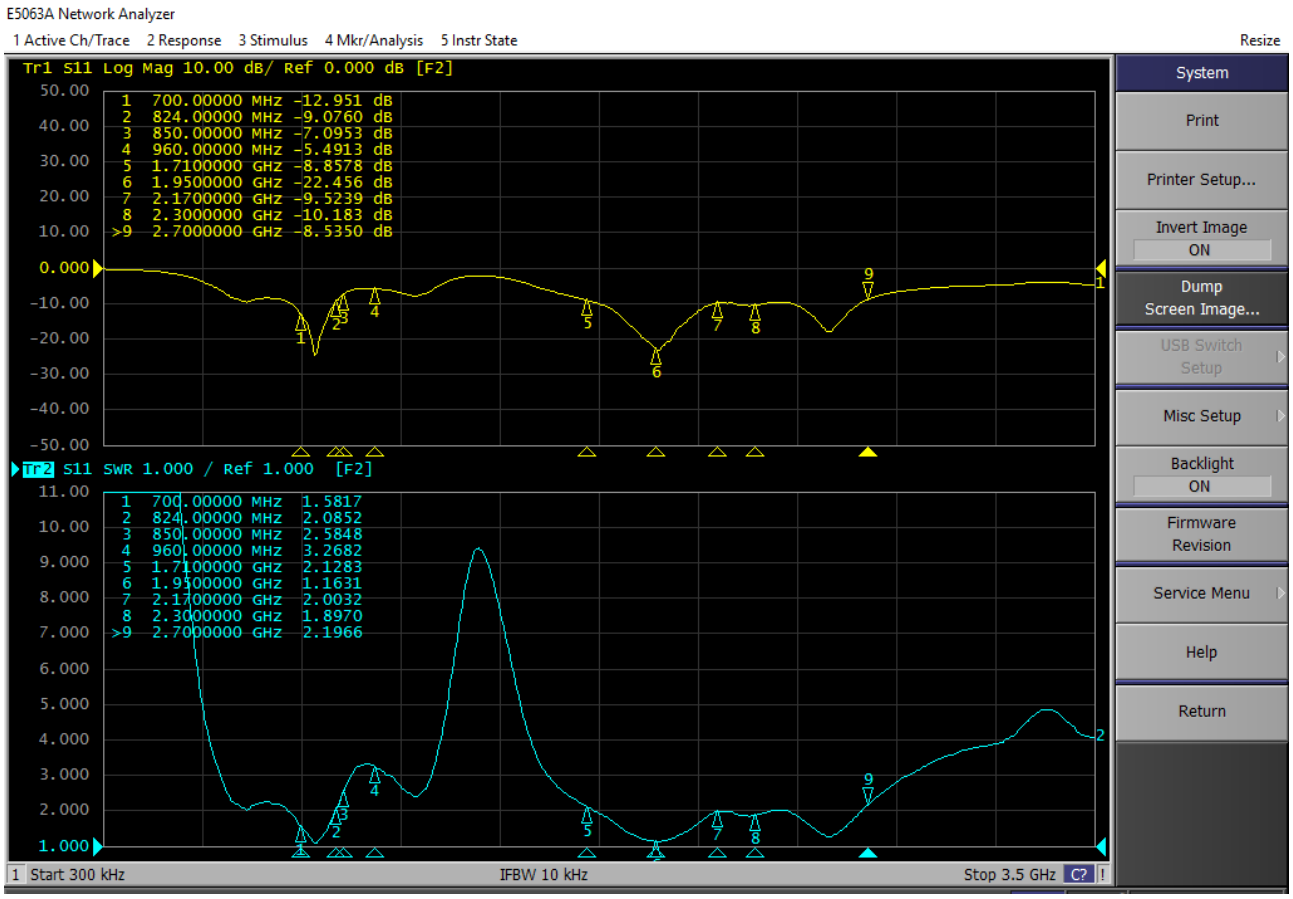






2. Antenna - S Parameter Test Data

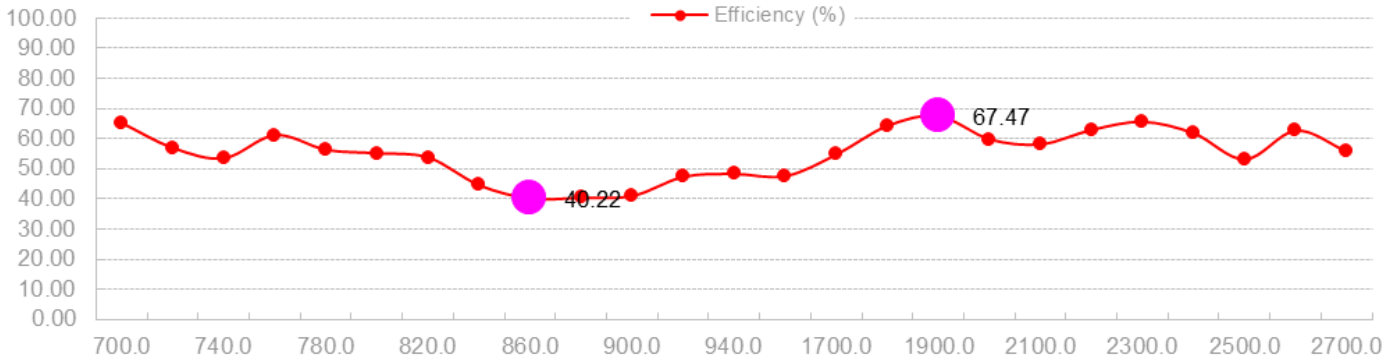
2.1. VSWR



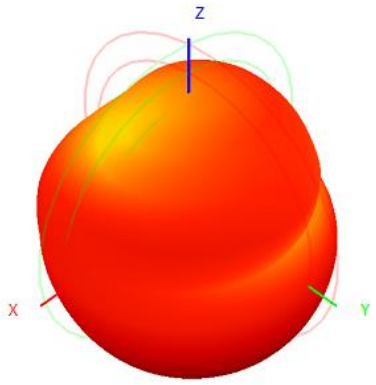
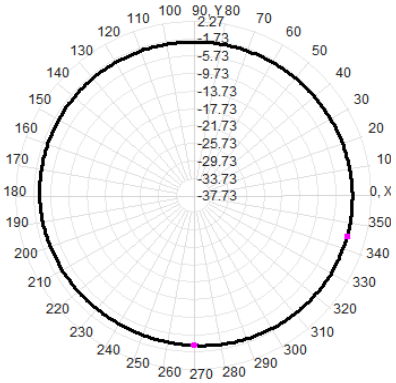
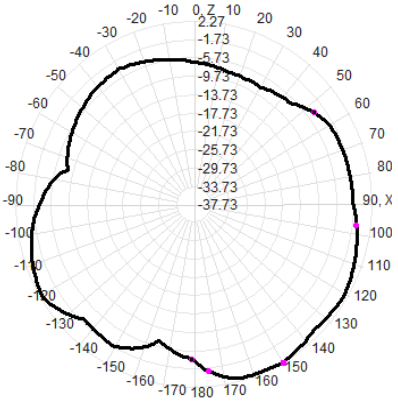
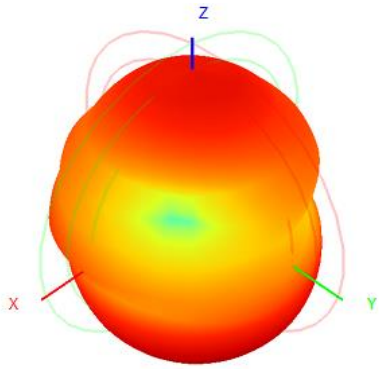
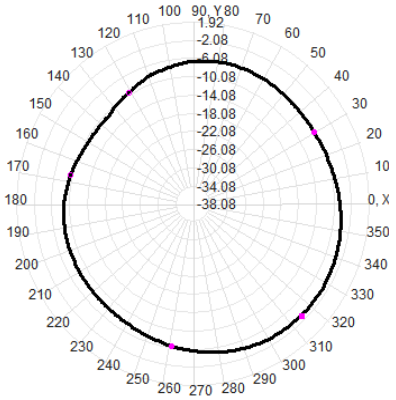
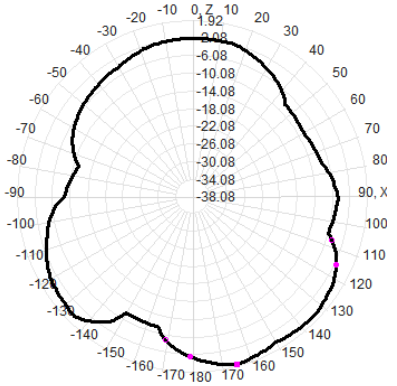
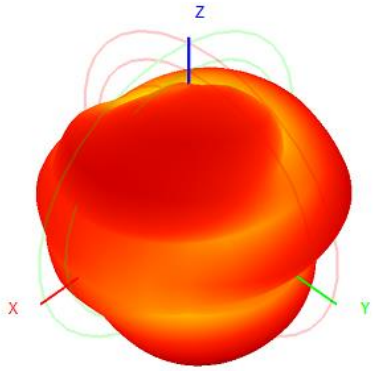
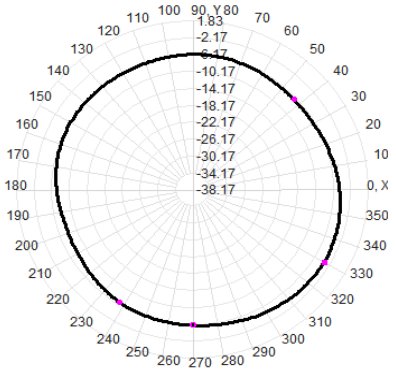
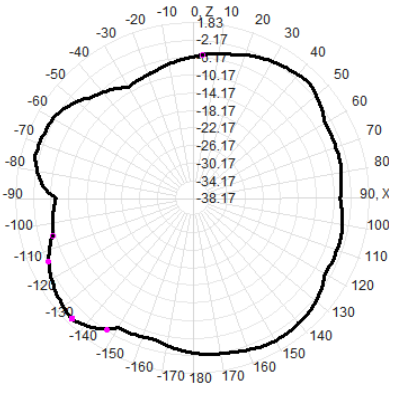
2.2. Total Efficiency & Gain:

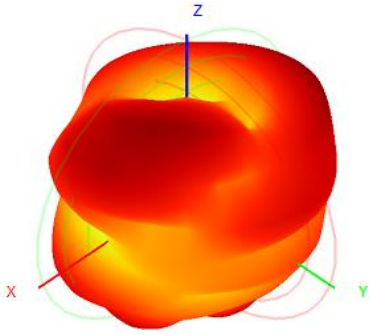
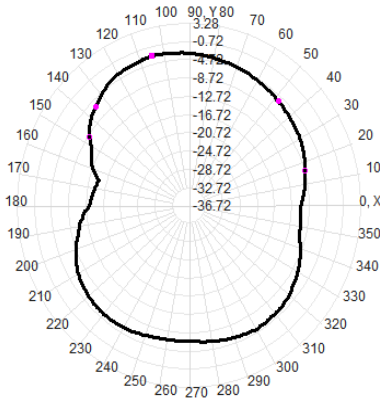
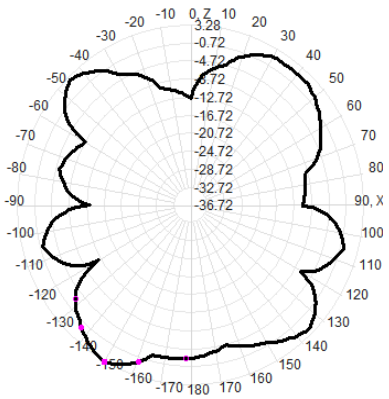
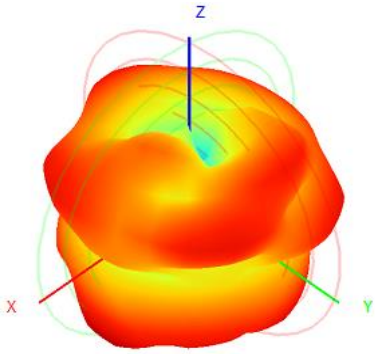
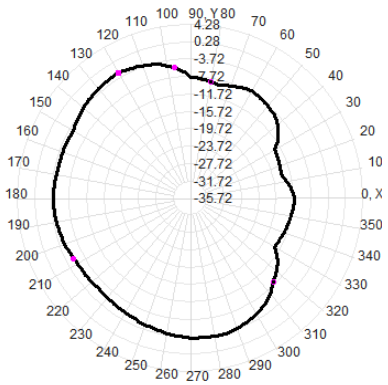
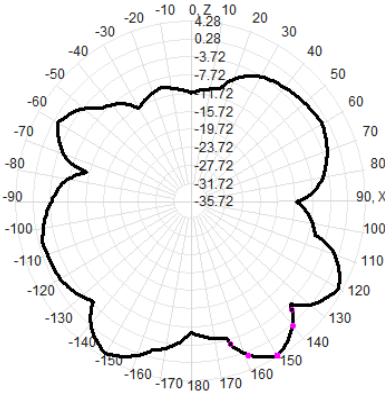
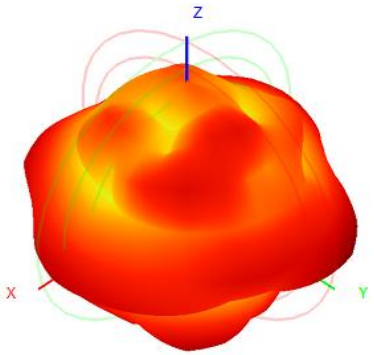
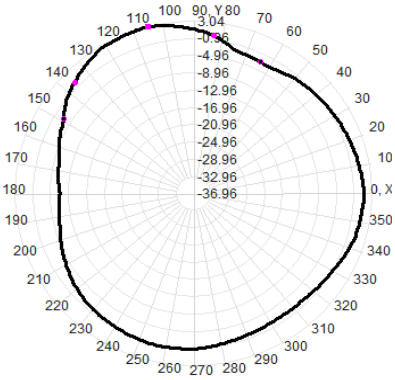
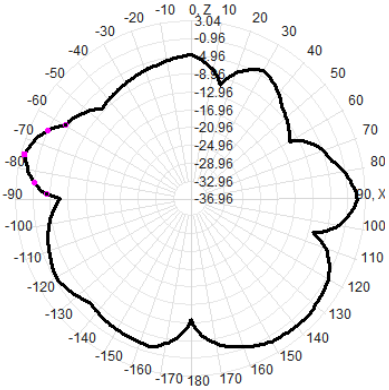
Frequency (MHz)	700.0	720.0	740.0	760.0	780.0	800.0	820.0	840.0	860.0	880.0	900.0	920.0	940.0	960.0
Gain (dBi)	2.45	2.03	2.27	3.18	3.11	2.96	3.04	2.70	2.27	2.05	1.91	2.06	2.11	2.07
Efficiency (%)	65.20	56.96	53.57	61.22	56.34	55.20	53.79	44.58	40.22	40.42	41.03	47.38	48.33	47.63

Frequency (MHz)	1700.0	1800.0	1900.0	2000.0	2100.0	2200.0	2300.0	2400.0	2500.0	2600.0	2700.0	1700.0
Gain (dBi)	3.47	4.40	4.47	4.15	4.50	5.01	4.88	4.24	2.26	2.72	3.04	3.47
Efficiency (%)	54.82	64.32	67.47	59.83	58.16	62.95	65.60	61.80	53.15	62.70	55.71	54.82



2.3 Radiation Pattern

	3D	2D-Horizontal	2D-Vertical
700MHz			
840MHz			
960MHz			

	3D	2D-Horizontal	2D-Vertical
1700MHz			
2200MHz			
2700MHz			

3. Mechanical Drawing