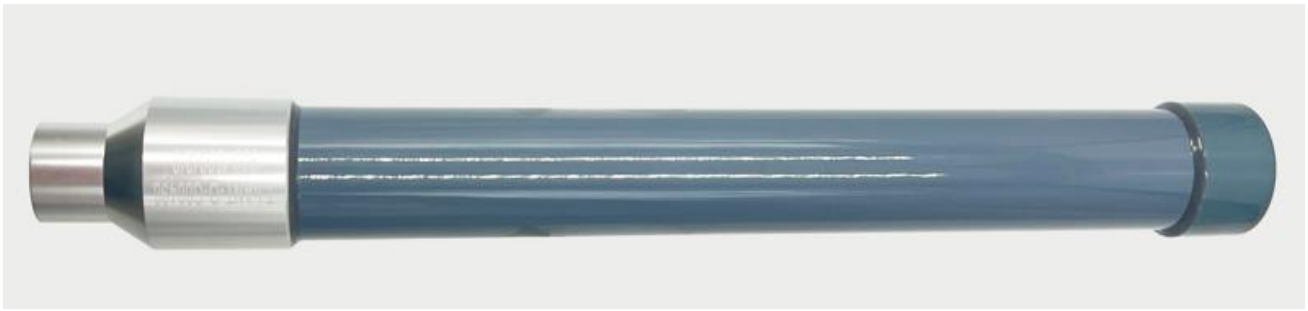
Product Number: BGS-AN1500-32300G
Product Name: 900-1500MHZ Omnidirectional Fiberglass Antenna

1. Specification

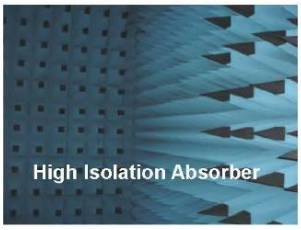
Sample Photo	
	
A. Electrical Characteristics	
Frequency	**900-1500MHz**
Impedance	**50 Ohm**
S.W.R.	**<2.0**
Antenna Gain	**1-2.5dBi**
Efficiency	**≈77%**
Polarization	**Linear**
Horizontal Beamwidth	**360°**
Vertical Beamwidth	**50~64°**
Max Power	**50W**
B. Material & Mechanical Characteristics	
Connector Type	**N connector**
Dimension	**Φ32*300mm**
Weight	**0.26Kg**
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**

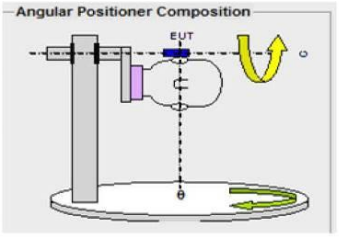
Test Equipment & Conditions

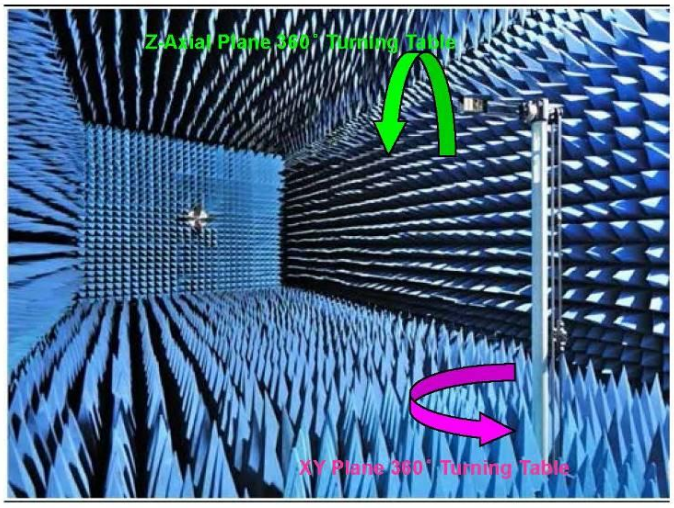
1. Network Analyzer: Keysight E5071C

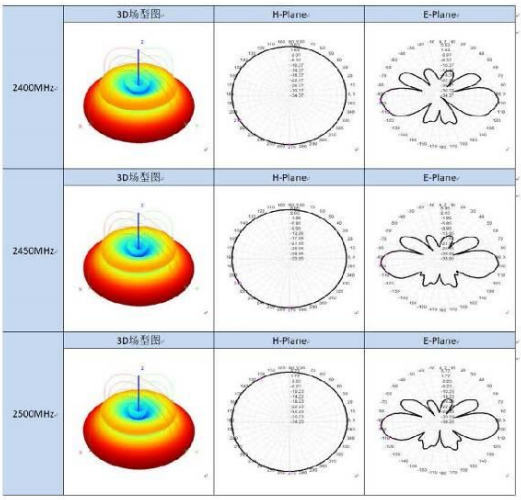
2. 3D Chamber Test System

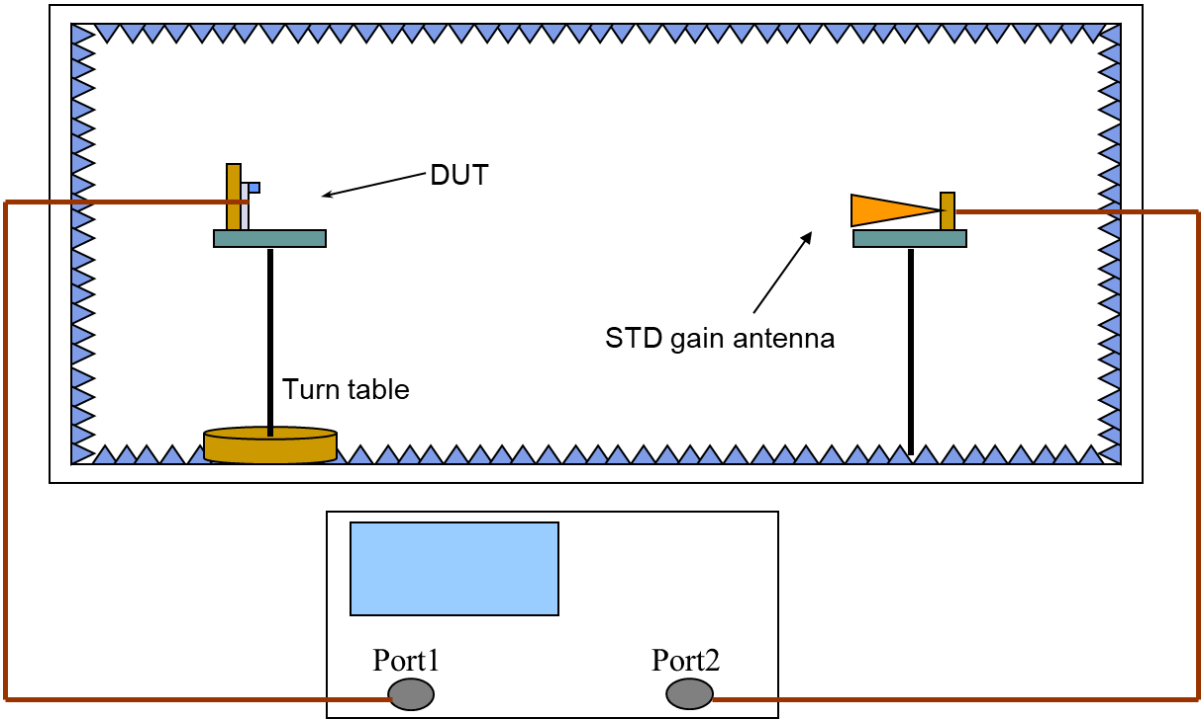
.Chamber Size: 9 x 5 x 4 m³
.Freq. Range: 0.4 ~ 18.0 GHz
.Double Ridge Horn Antenna
.VNA: Agilent E5071C
.3D Turning Table and Positioner
.ADT Solution 3D Testing Software





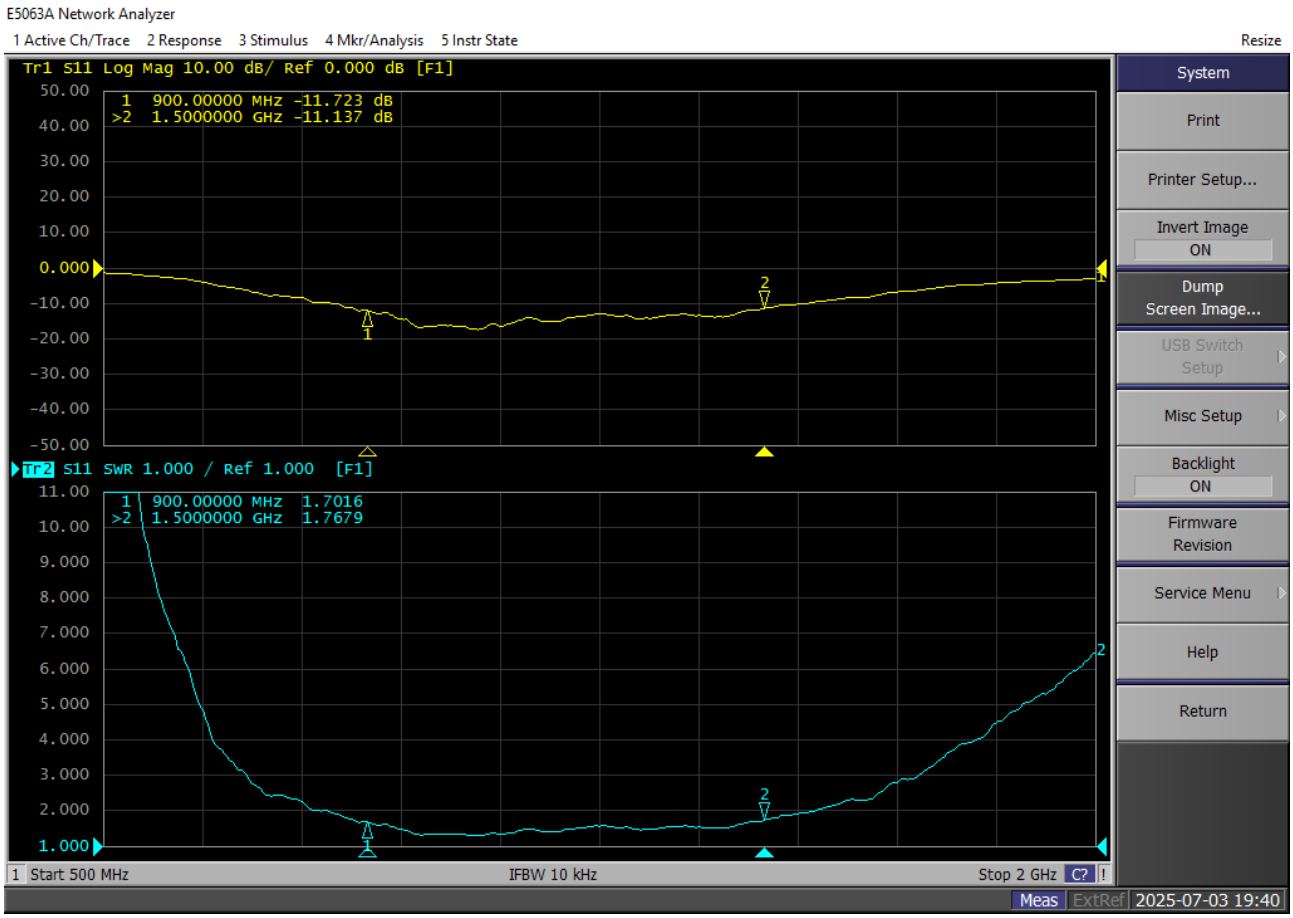






2. Antenna - S Parameter Test Data

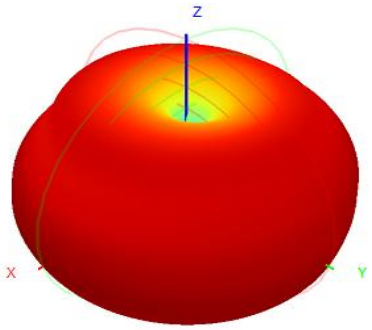
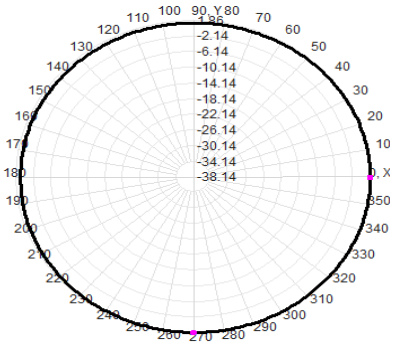
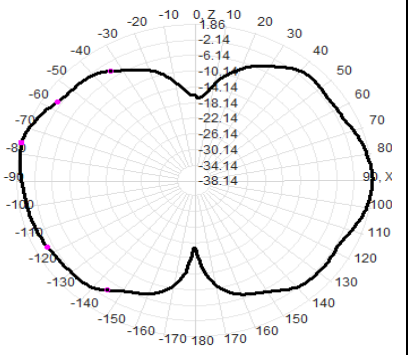
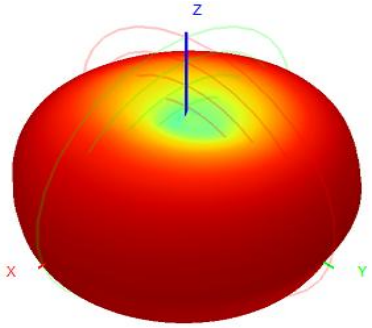
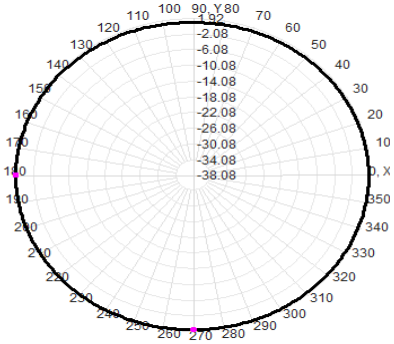
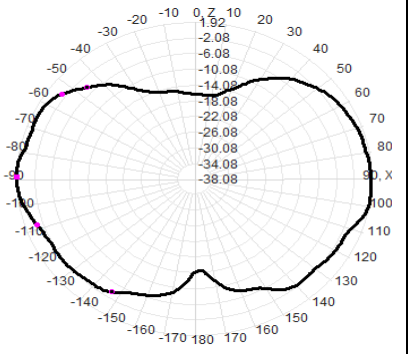
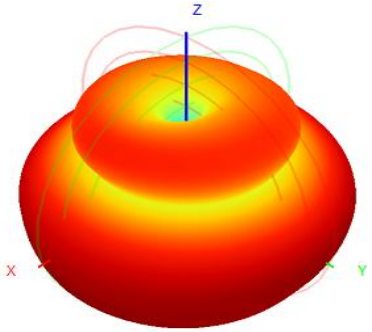
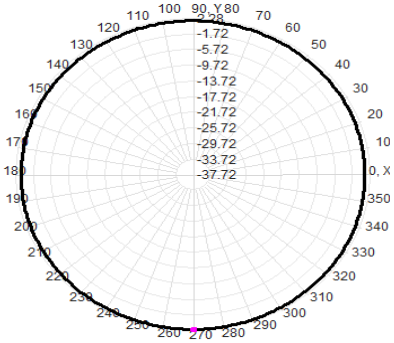
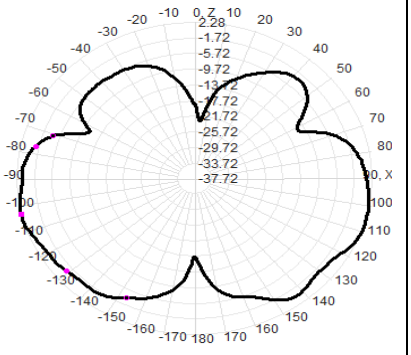
2.1. VSWR



2.2. Total Efficiency & Gain:

Frequency(MHz)	Gain(dBi)	Efficiency(%)
900	1.9	79.5
950	1.8	79.1
1000	1.2	73.1
1050	1.6	81.7
1100	1.7	77.4
1150	1.5	71.4
1200	1.9	77.8
1250	2.0	78.8
1300	2.1	79.5
1350	1.8	68.4
1400	2.5	77.6
1450	2.5	75.3
1500	2.3	75.7

2.3 Radiation Pattern

	3D	2D-Horizontal	2D-Vertical
900MHz			
1200MHz			
1500MHz			

3. Mechanical Drawing