

## 1. Specification

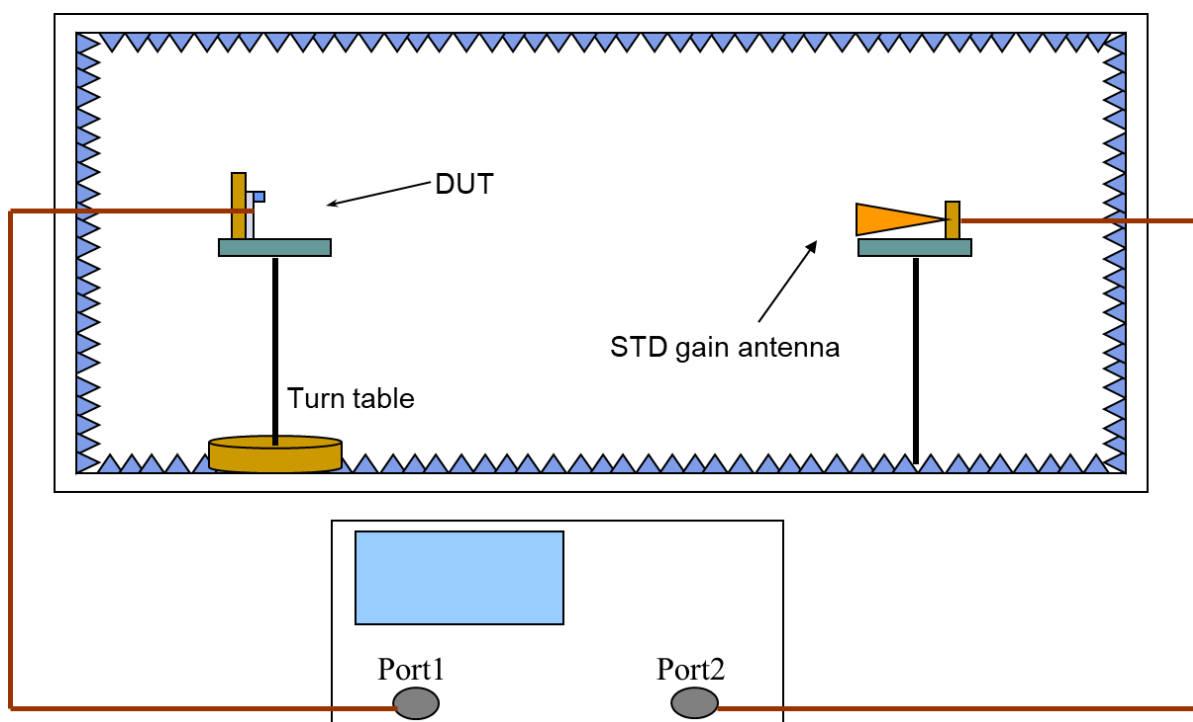
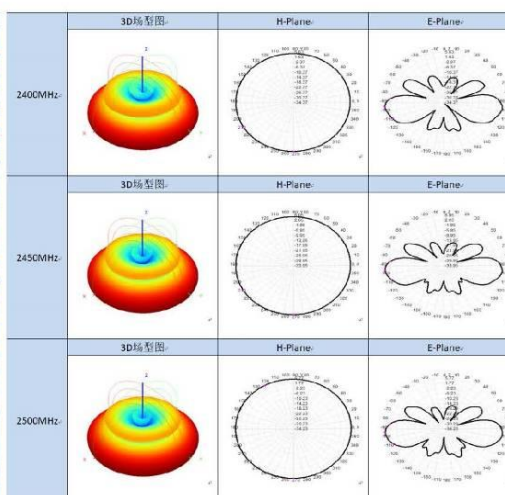
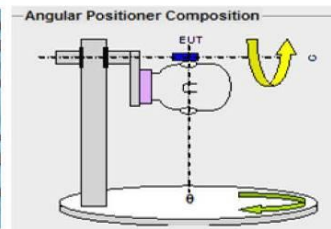
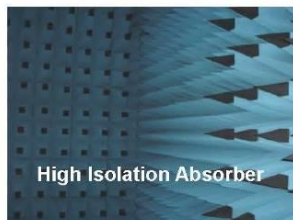
Sample Photo	
	
A. Electrical Characteristics	
Frequency	3700-4200MHz
S.W.R.	<= 2.0
Antenna Gain	5dBi
Efficiency	≈65%
Polarization	Linear
Horizontal Beamwidth	360°
Vertical Beamwidth	23-28°
Impedance	50 Ohm
B. Material & Mechanical Characteristics	
Connector Type	N Male
Dimension	φ 20*218mm
Color	Black
Weight	0.055Kg
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 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

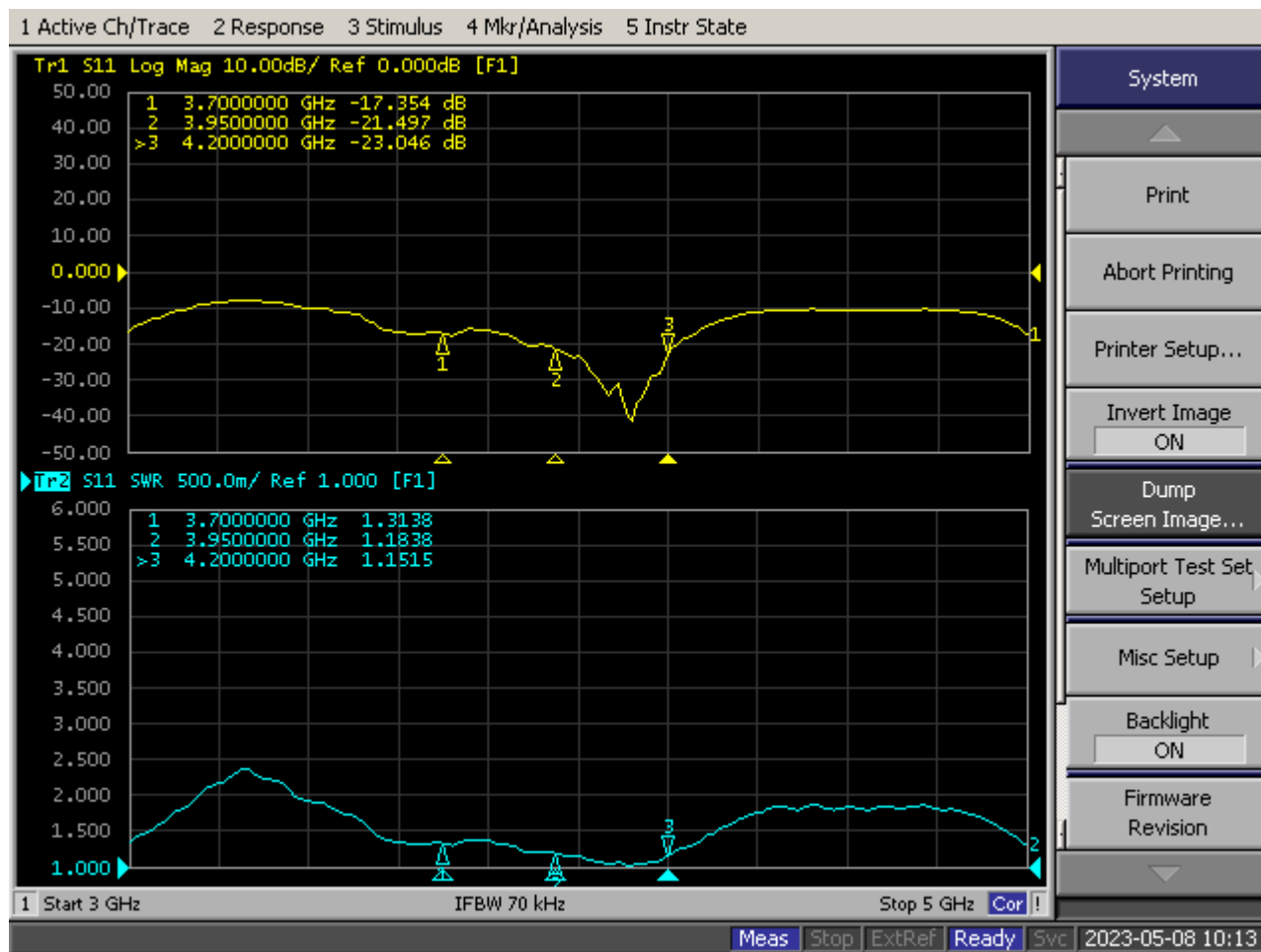




Product Number: BGS-AN3700-20218B  
Product Name: 3.7-4.2GHz UWB External Antenna

## 2. Antenna - S Parameter Test Data

### 2.1 VSWR

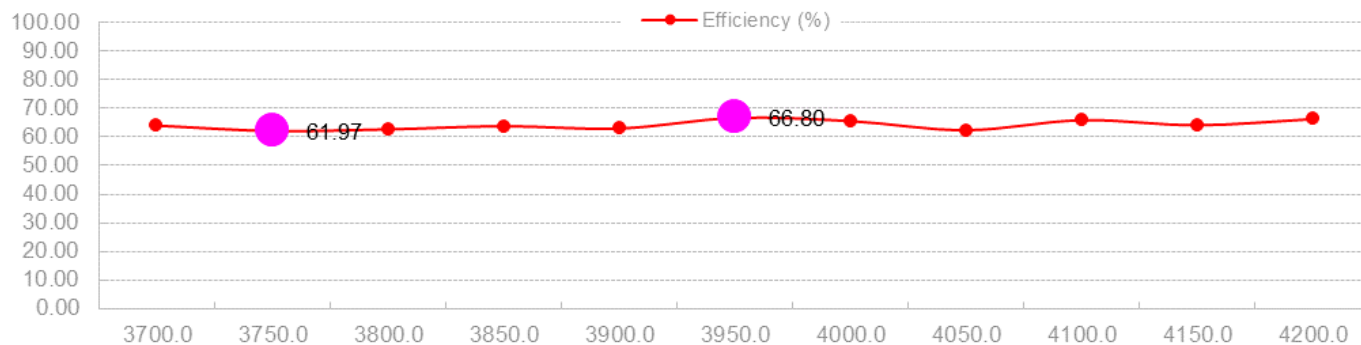




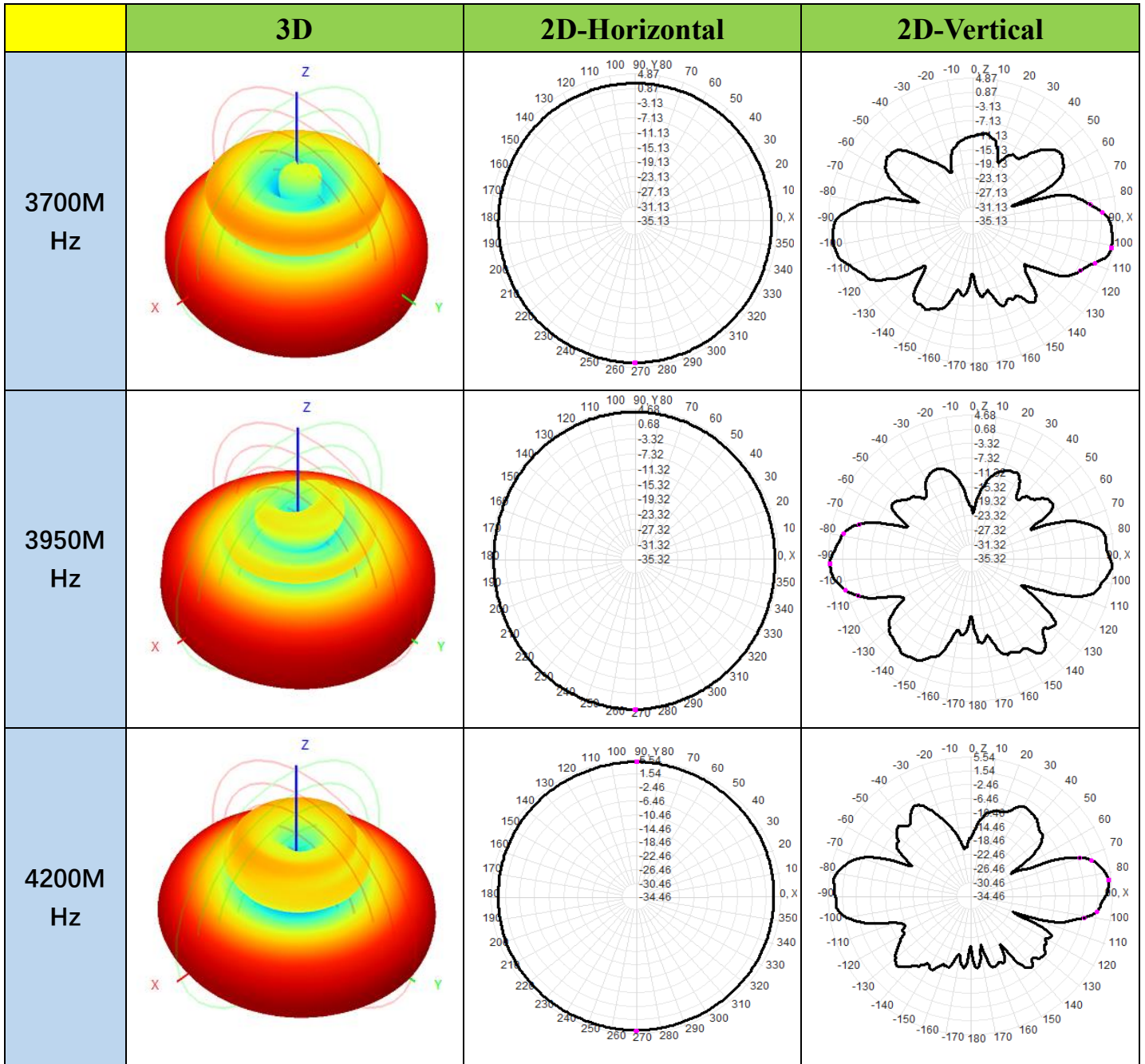
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## 2.2 Total Efficiency & Gain:

Frequency (MHz)	3700.0	3750.0	3800.0	3850.0	3900.0	3950.0	4000.0	4050.0	4100.0	4150.0	4200.0
Gain (dBi)	4.87	4.52	4.44	4.52	4.56	4.68	4.38	4.27	4.94	5.15	5.54
Efficiency (%)	63.98	61.97	62.59	63.76	62.90	66.80	65.66	62.28	66.00	64.12	66.35



### 2.3 Radiation Pattern





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### 3. Mechanical Drawing

