


## 1. Specification

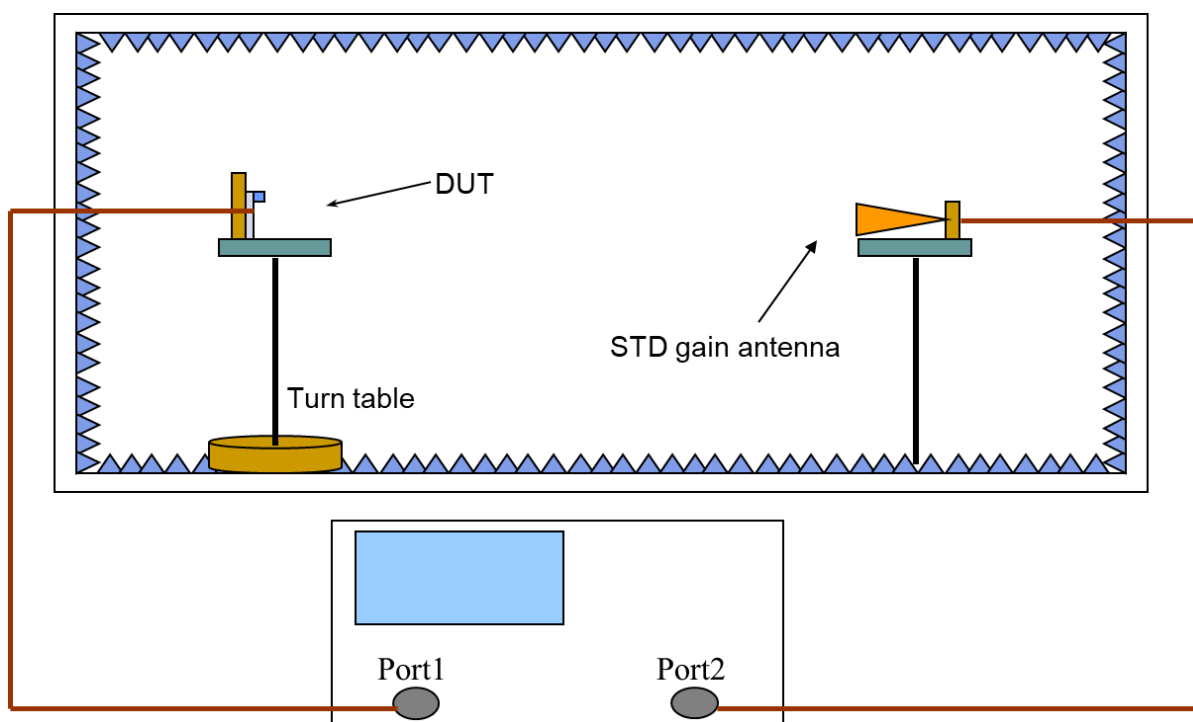
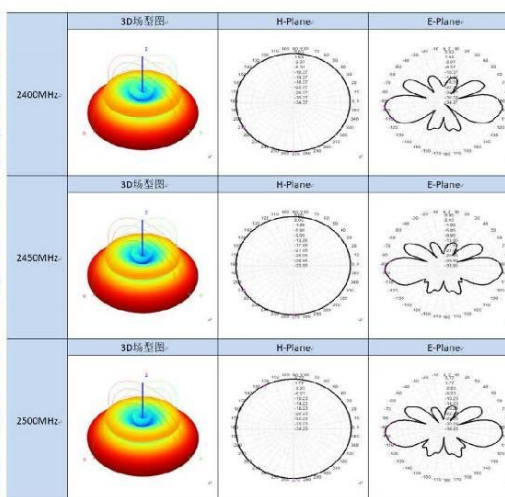
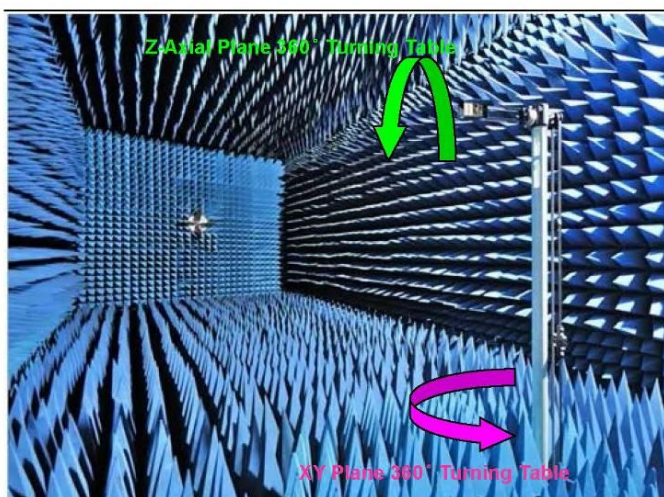
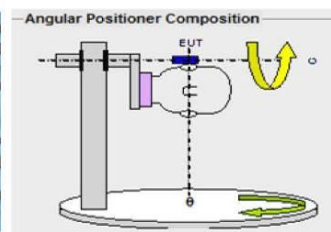
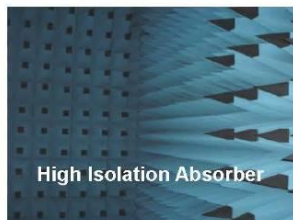
Sample Photo	
	
A. Electrical Characteristics	
Frequency	3700-4200MHz
S.W.R.	<= 1.8
Antenna Gain	14dBi
Polarization	Vertical
Horizontal Beamwidth	35-40°
Vertical Beamwidth	34-36°
F/B	>23dB
Impedance	50Ohm
Max. Power	50W
B. Material & Mechanical Characteristics	
Cable Type	Mine Cable, length 1 meter
Connector Type	SMA connector
Dimension	186*186*28mm
Radome material	ABS
Weight	0.905Kg
C. Environmental	
Operation Temperature	- 40 °C ~ + 85 °C
Storage Temperature	- 40 °C ~ + 85 °C
Operation Humidity	< 95%
Rated Wind Velocity	36.9m/s

## 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

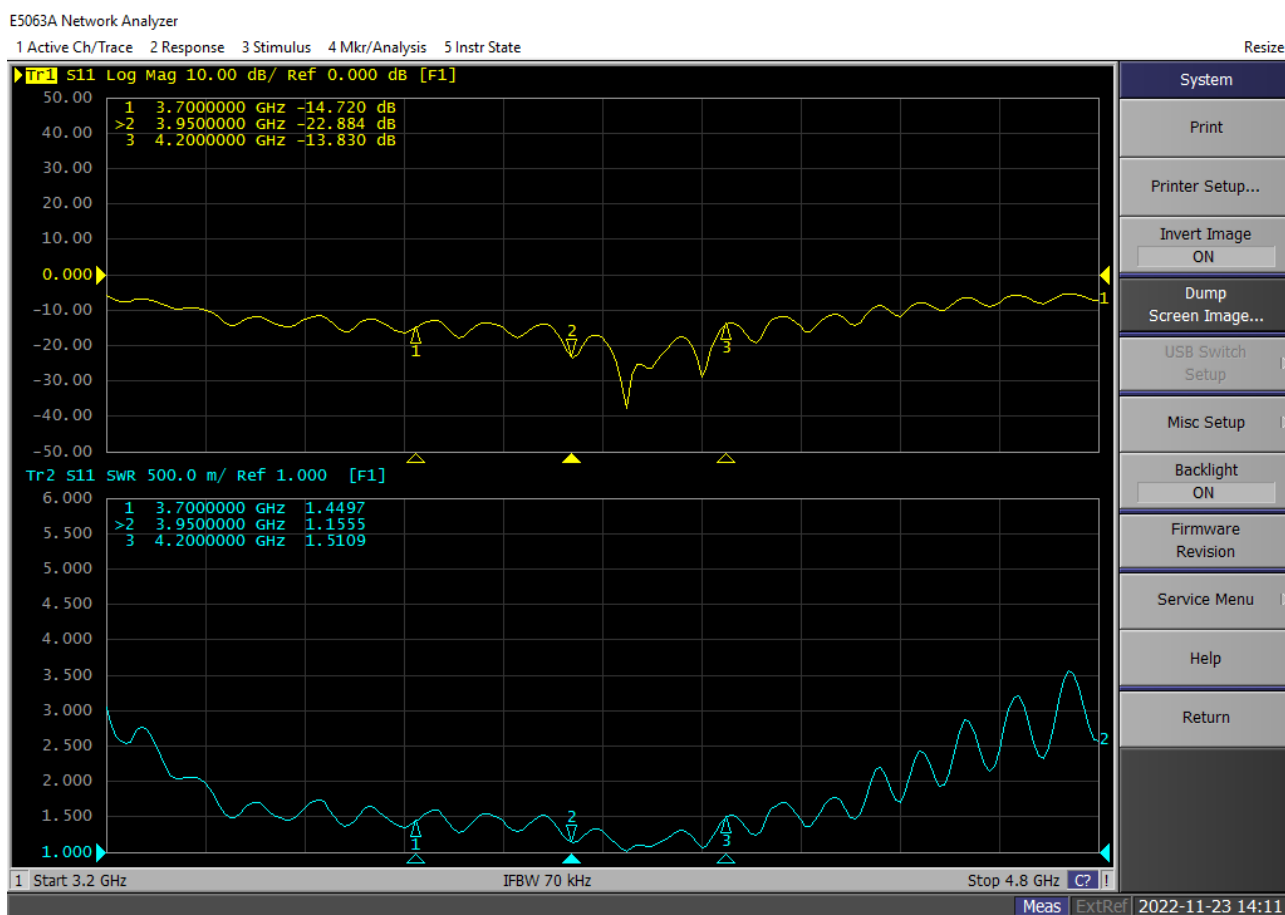




Product Number: BGS-AN3700-18618628C  
Product Name: 3.7-4.2GHz UWB Flat Panel Antenna 14dBi

## 2. Antenna - S Parameter Test Data

### 2.1 VSWR





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## **2.2 Gain:**

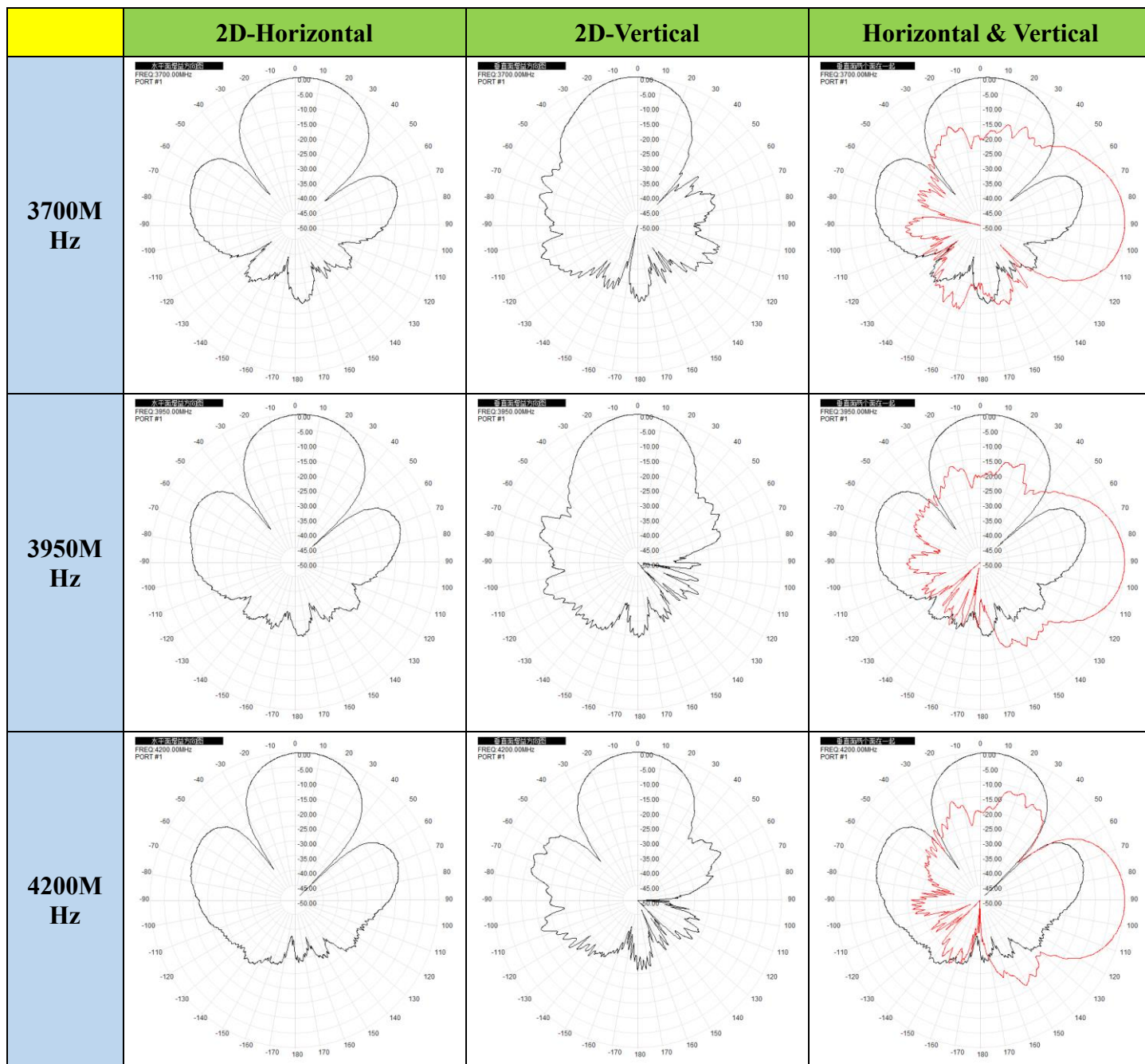
Frequency(MHz)	Gain(dBi)
3700	13.021
3750	13.315
3800	13.716
3850	13.794
3900	13.817
3950	13.834
4000	13.858
4050	13.974
4100	13.88
4150	13.813
4200	13.802



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### 2.3 Radiation Pattern

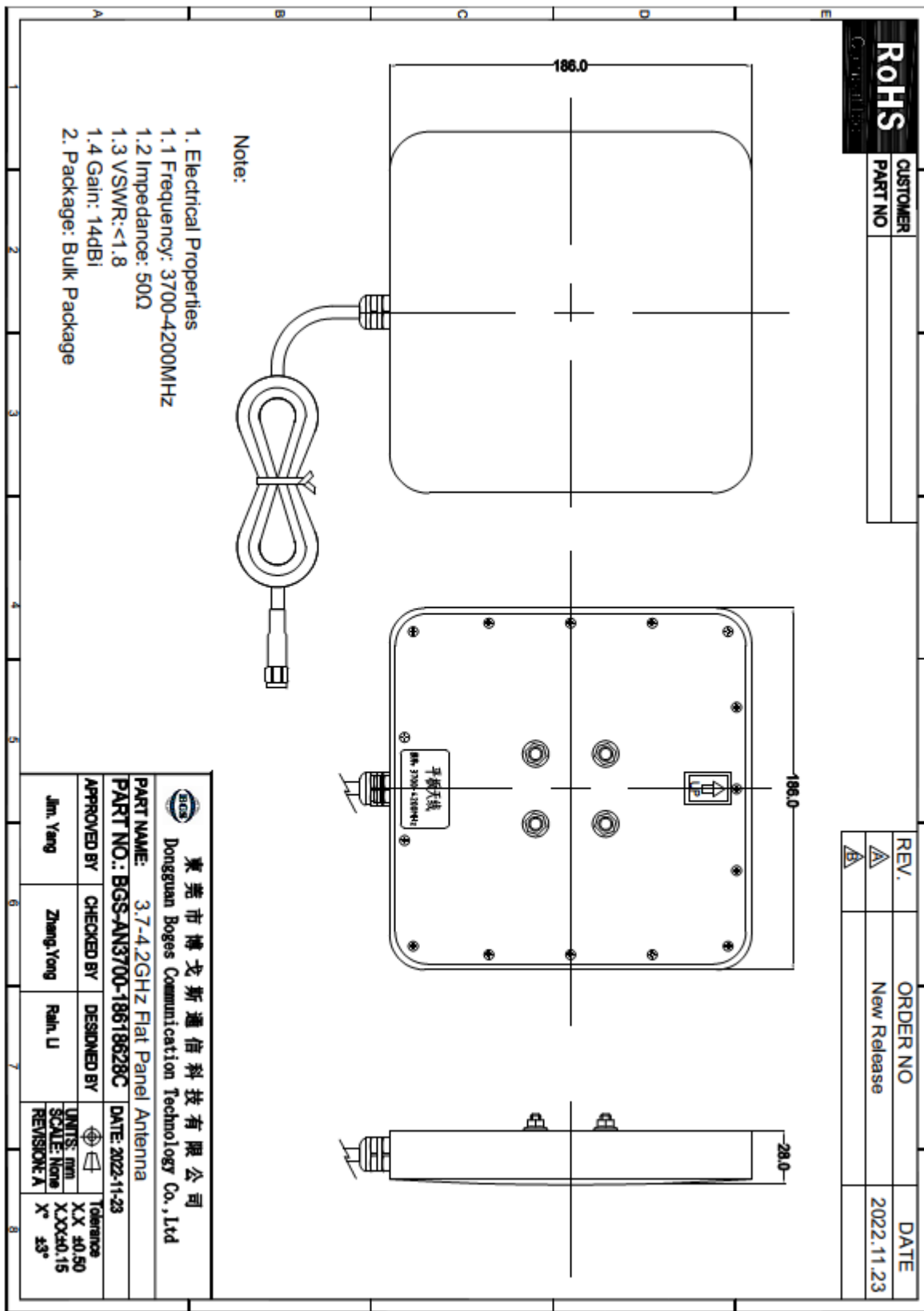




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### 3. Mechanical Drawing



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