


1. Specification

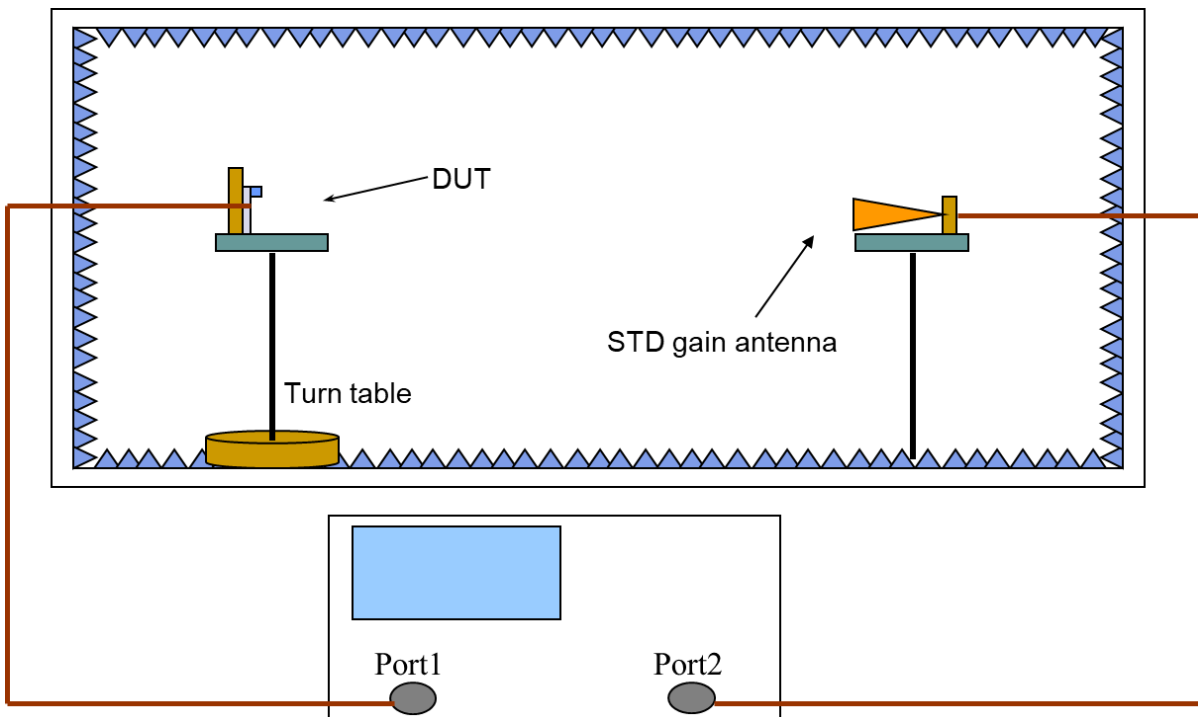
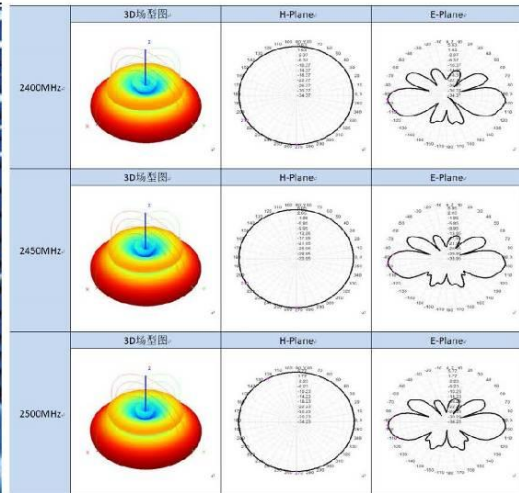
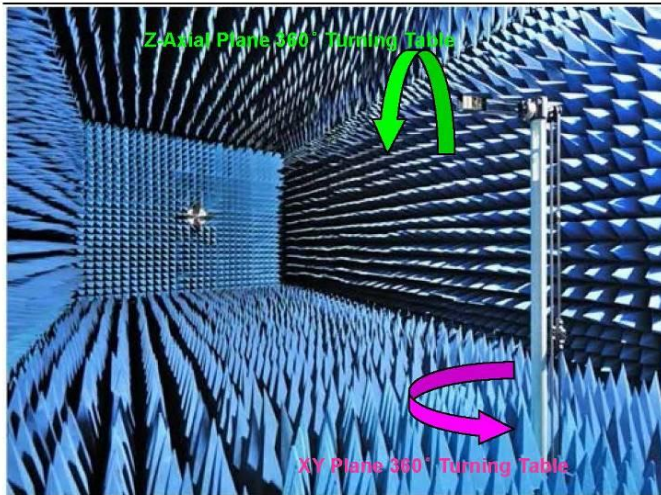
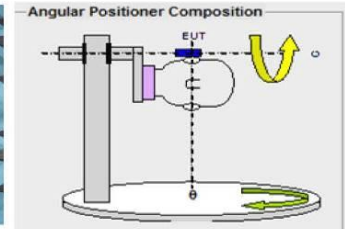
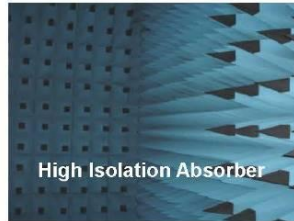
Sample Photo	
	
A. Electrical Characteristics	
Frequency	433MHz
Impedance	50 Ohm
S.W.R.	<1.5
Antenna Gain	5dBi
Efficiency	≈80%
Polarization	Linear
Horizontal Beamwidth	360°
Vertical Beamwidth	43°
Max Power	50W
B. Material & Mechanical Characteristics	
Connector Type	N connector
Dimension	Φ 18.5*1000mm
Weight	0.62Kg
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

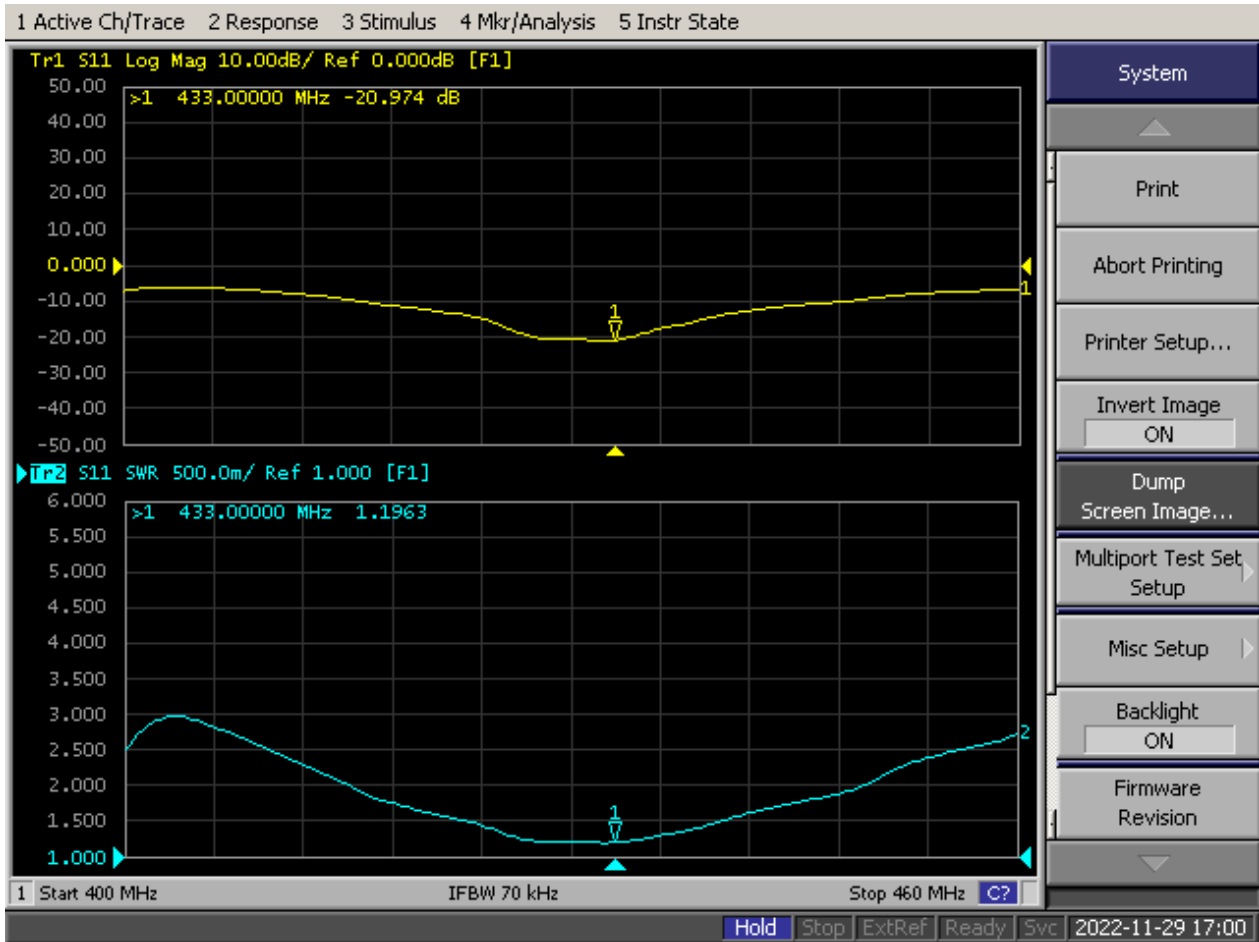


Product Number: BGS-AN0433-181000G

Product Name: 433MHz 5dBi Omnidirectional Fiberglass Antenna

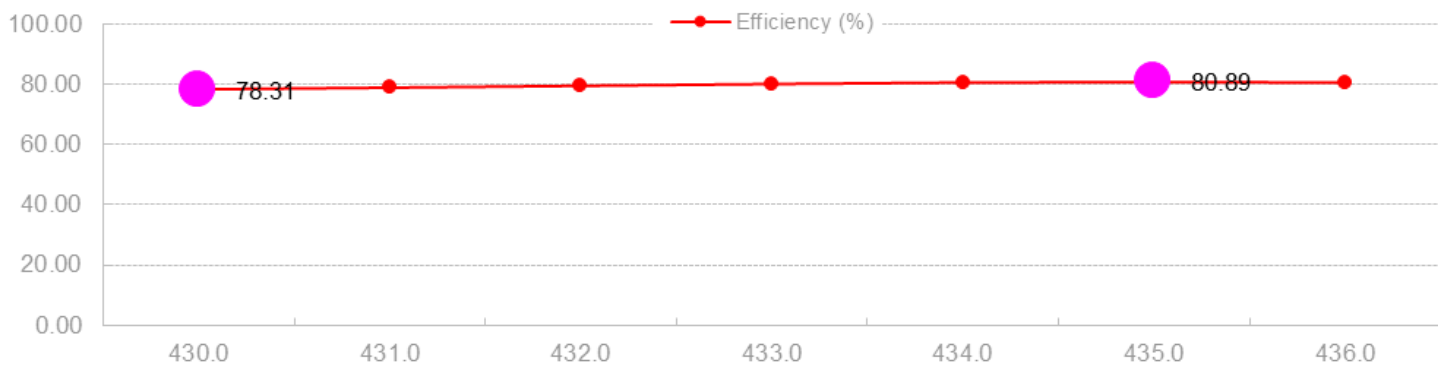
2. Antenna - S Parameter Test Data

2.1. VSWR



2.2. Total Efficiency & Gain:

Frequency(MHz)	430.0	431.0	432.0	433.0	434.0	435.0	436.0
Gain (dBi)	4.47	4.50	4.52	4.54	4.55	4.55	4.36
Efficiency (%)	78.31	78.90	79.54	80.20	80.72	80.89	80.70



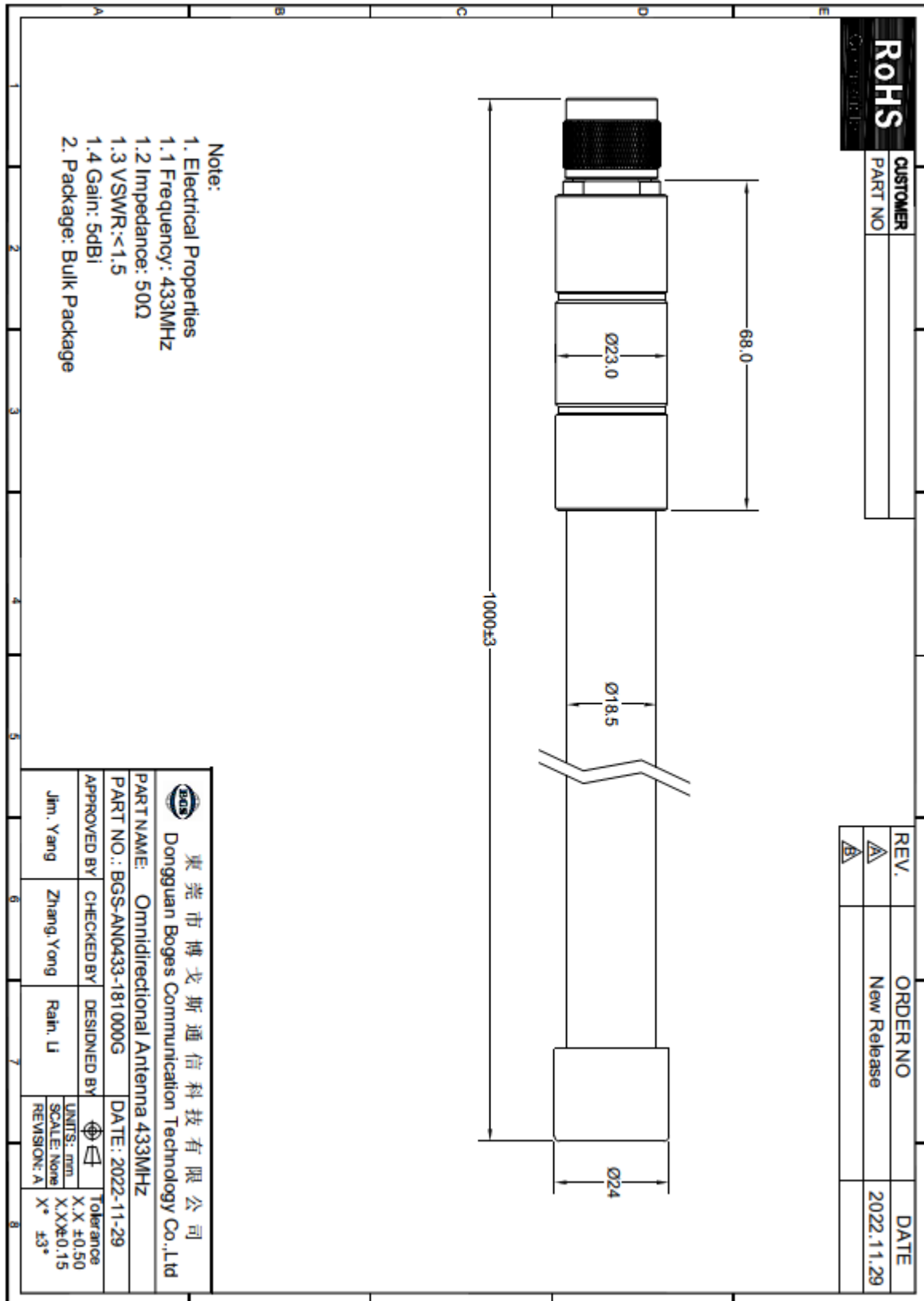
2.3 Radiation Pattern

	3D	2D-Horizontal	2D-Vertical
430MHz			
433MHz			
436MHz			

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3. Mechanical Drawing



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