


1. Specification

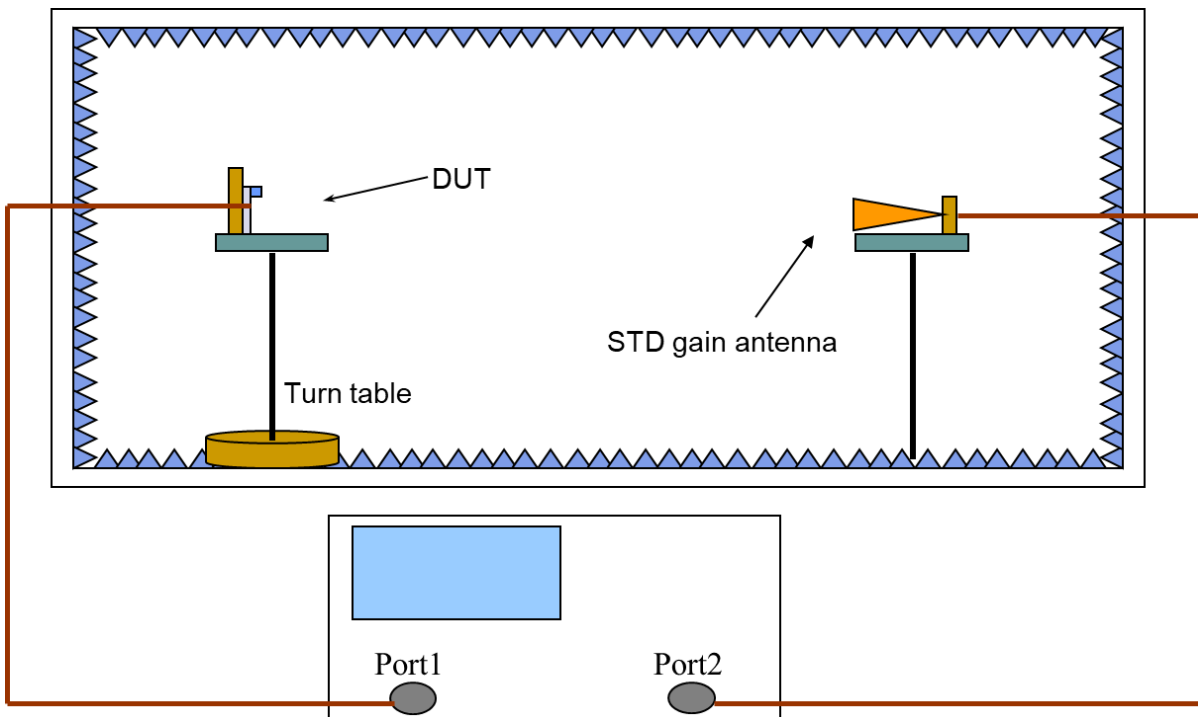
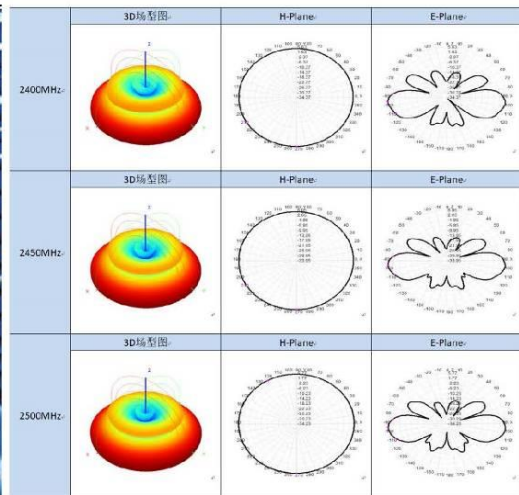
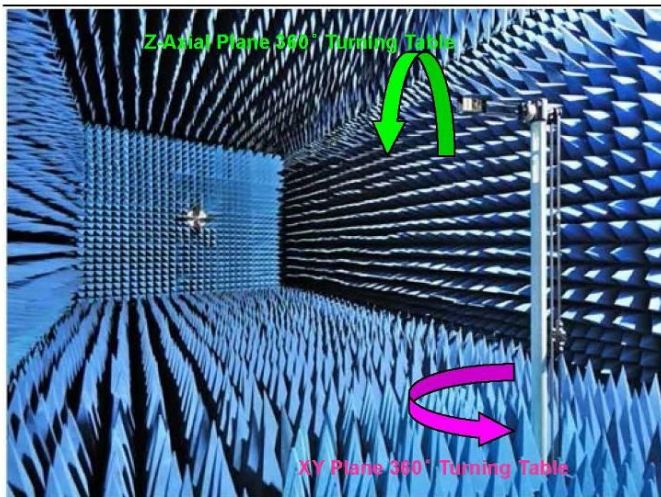
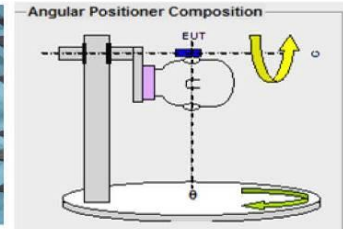
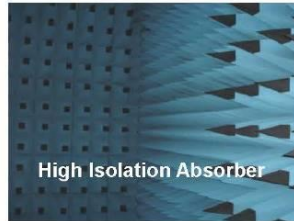
Sample Photo	
	
A. Electrical Characteristics	
Frequency	433MHz
Impedance	50 Ohm
S.W.R.	<2.0
Gain	2dBi
Polarization	Linear
Horizontal Beamwidth	360°
Vertical Beamwidth	55-60°
Max Power	50W
B. Material & Mechanical Characteristics	
Connector Type	SMA connector
Cable Type	RG58 Cable
Dimension	Φ 62*230mm
Weight	0.38Kg
Antenna material	Copper Rod
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

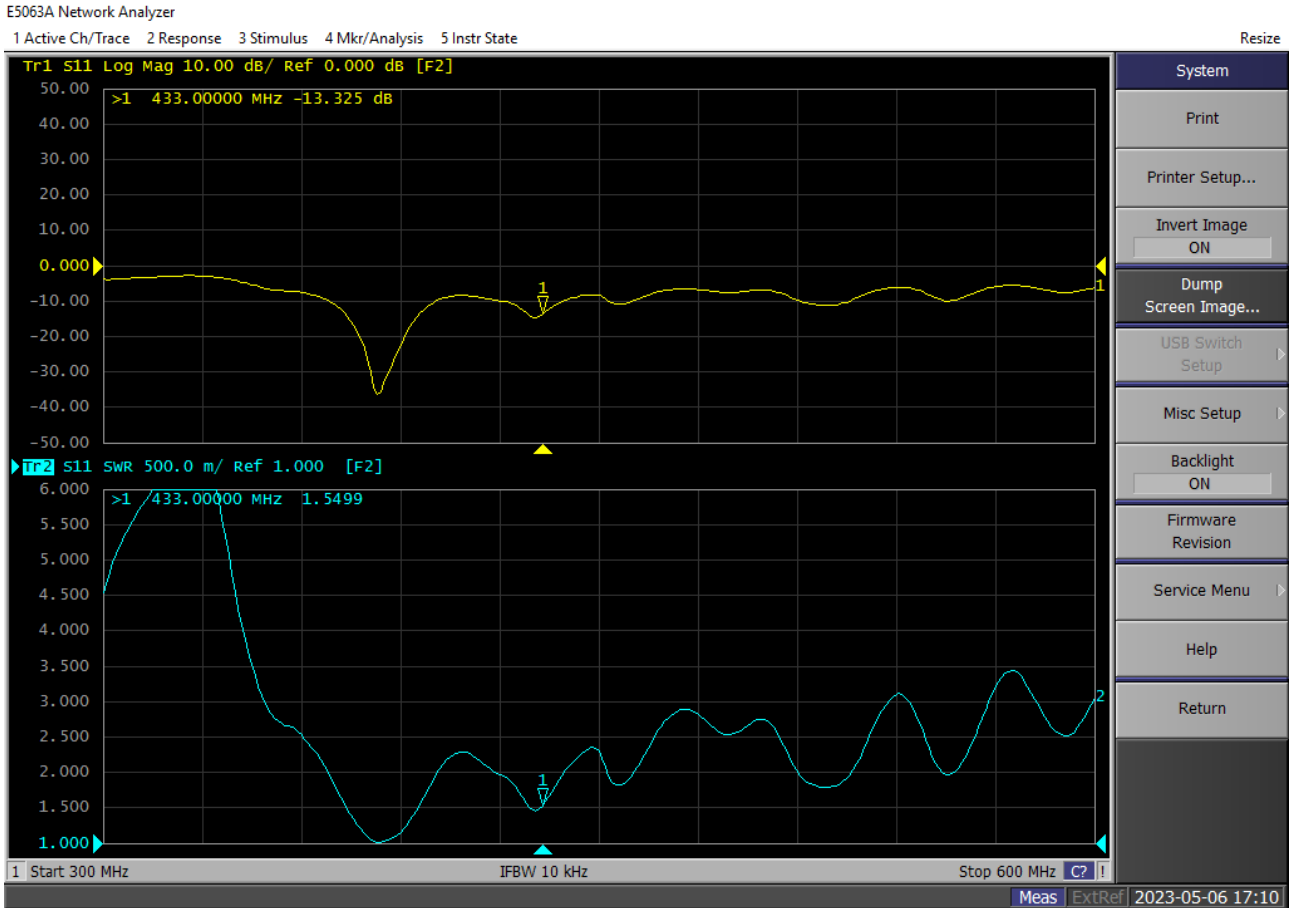




Product Number: BGS-AN0433-62230B
Product Name: Magnetic Antenna 433MHz

2. Antenna - S Parameter Test Data

2.1. VSWR

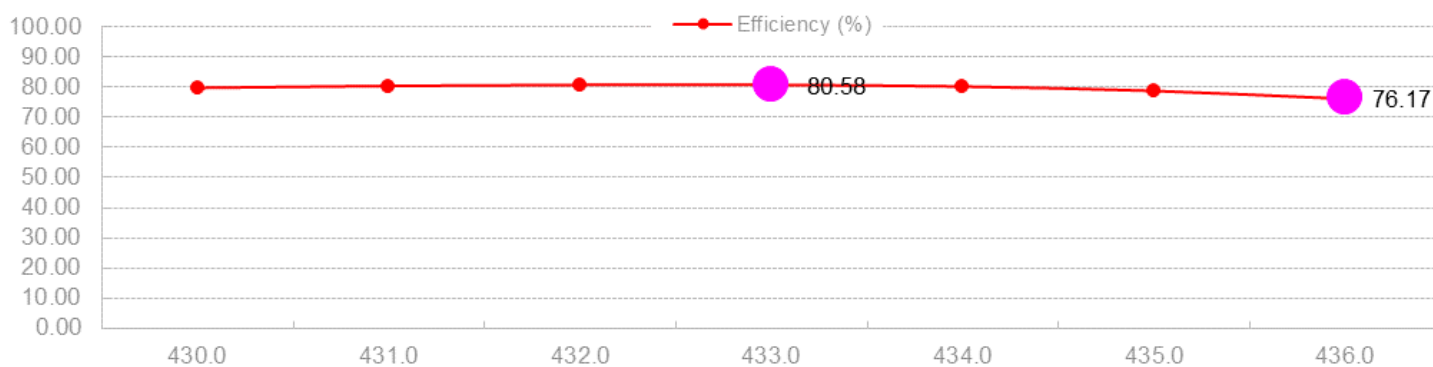




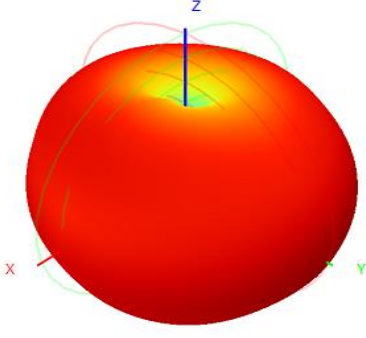
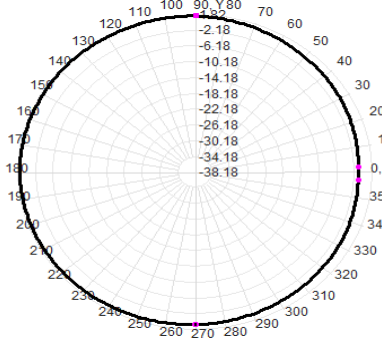
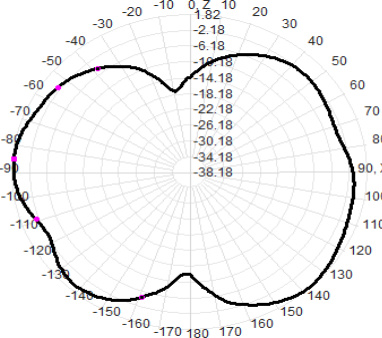
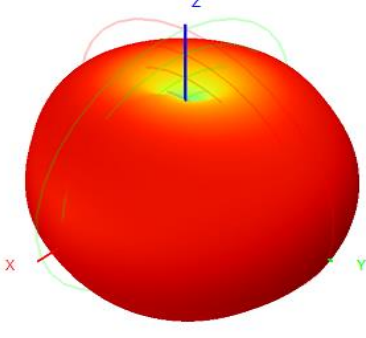
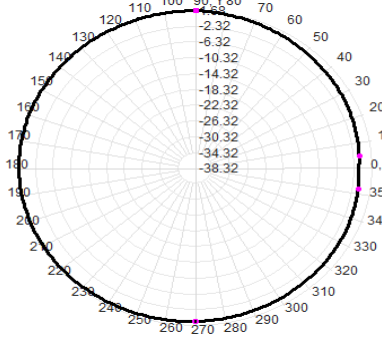
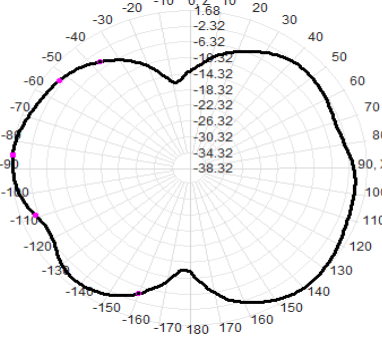
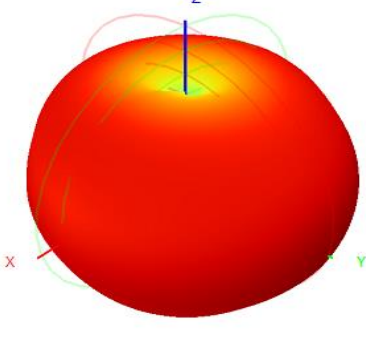
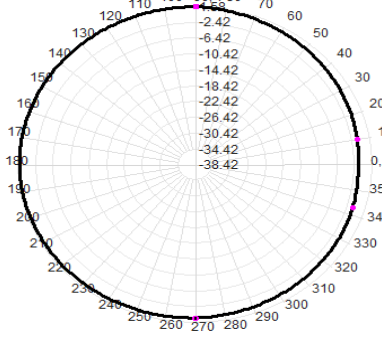
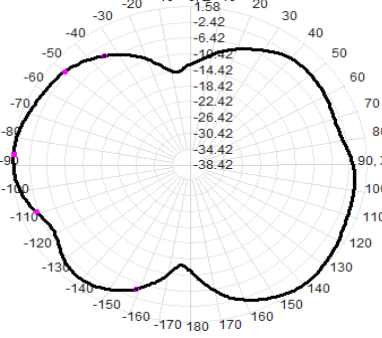
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2.2 Total Efficiency & Gain:

Frequency(MHz)	430.0	431.0	432.0	433.0	434.0	435.0	436.0
Gain (dBi)	1.82	1.79	1.74	1.68	1.69	1.67	1.58
Efficiency (%)	79.64	80.24	80.56	80.58	80.05	78.70	76.17



2.3 Radiation Pattern

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



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1. Mechanical Drawing

