


1. Specification

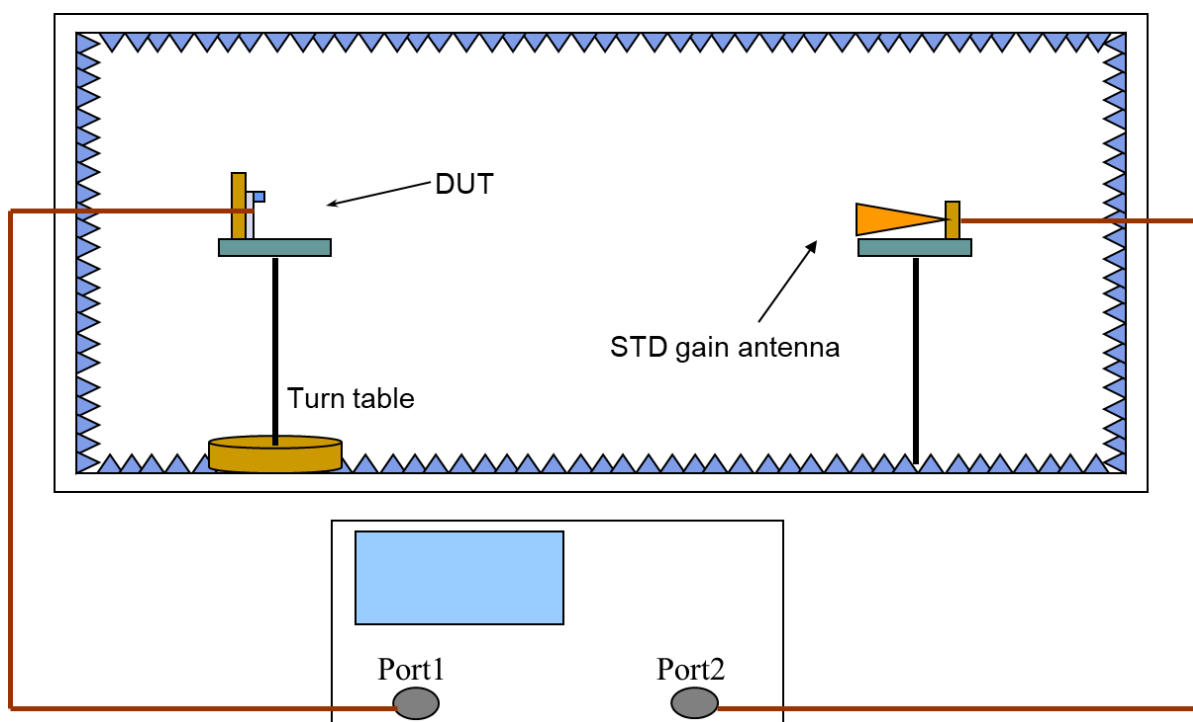
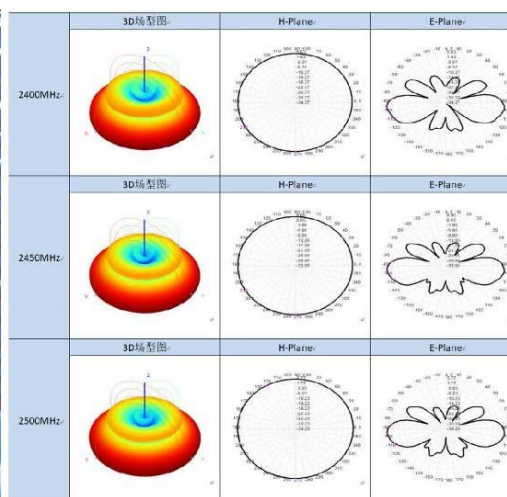
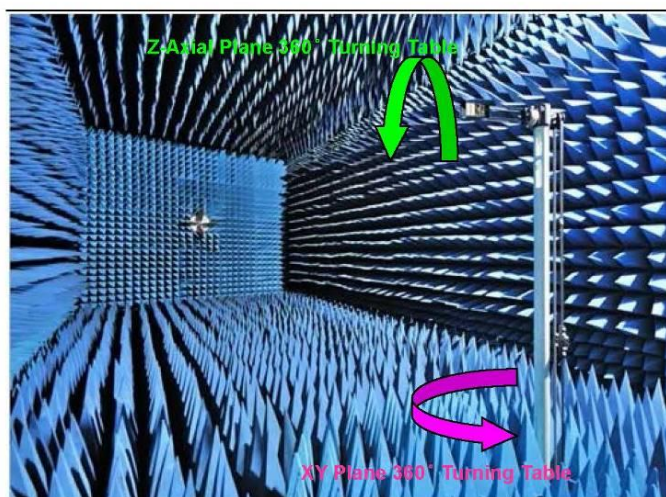
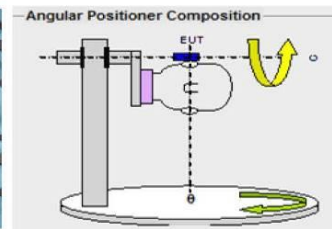
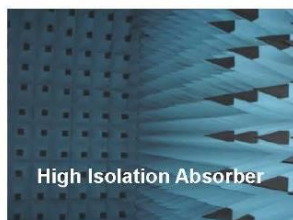
Sample Photo	
	
A. Electrical Characteristics	
Frequency	470-510MHz
Impedance	50 Ohm
S.W.R.	<2.5
Gain	0.5dBi
Polarization	Linear
Horizontal Beamwidth	360°
Max Power	50W
B. Material & Mechanical Characteristics	
Connector Type	SMA connector
Cable Type	RG58 Cable
Dimension	Φ 62*208mm
Weight	0.355Kg
Antenna 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

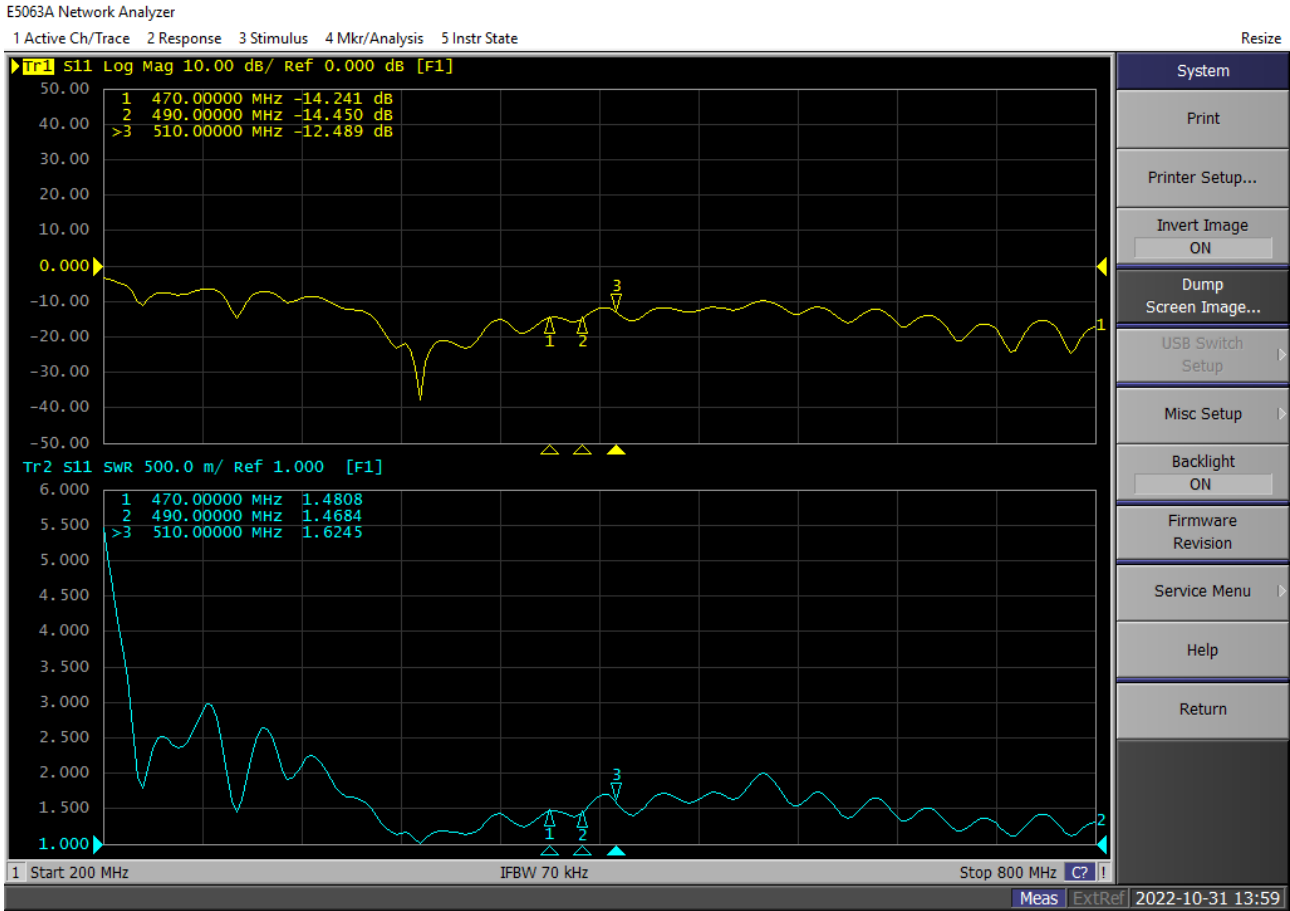




Product Number: BGS-AN0470-62208B
Product Name: Magnetic Lora Antenna 470-510MHz

2. Antenna - S Parameter Test Data

2.1. VSWR





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2.2 Total Efficiency & Gain:

Frequency (MHz)	470	480	490	500	510
Gain (dBi)	0.61	0.52	-0.16	-1.52	-0.26
Efficiency (%)	57.35	56.91	49.69	34.09	39.56



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2.3 Radiation Pattern

	3D	2D-Horizontal	2D-Vertical
470MHz			
490MHz			
510MHz			



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1. Mechanical Drawing

