




Product Number: BGS-AN0470-15200B
Product Name: 470-510MHz Flexible Whip Antenna

1. Specification

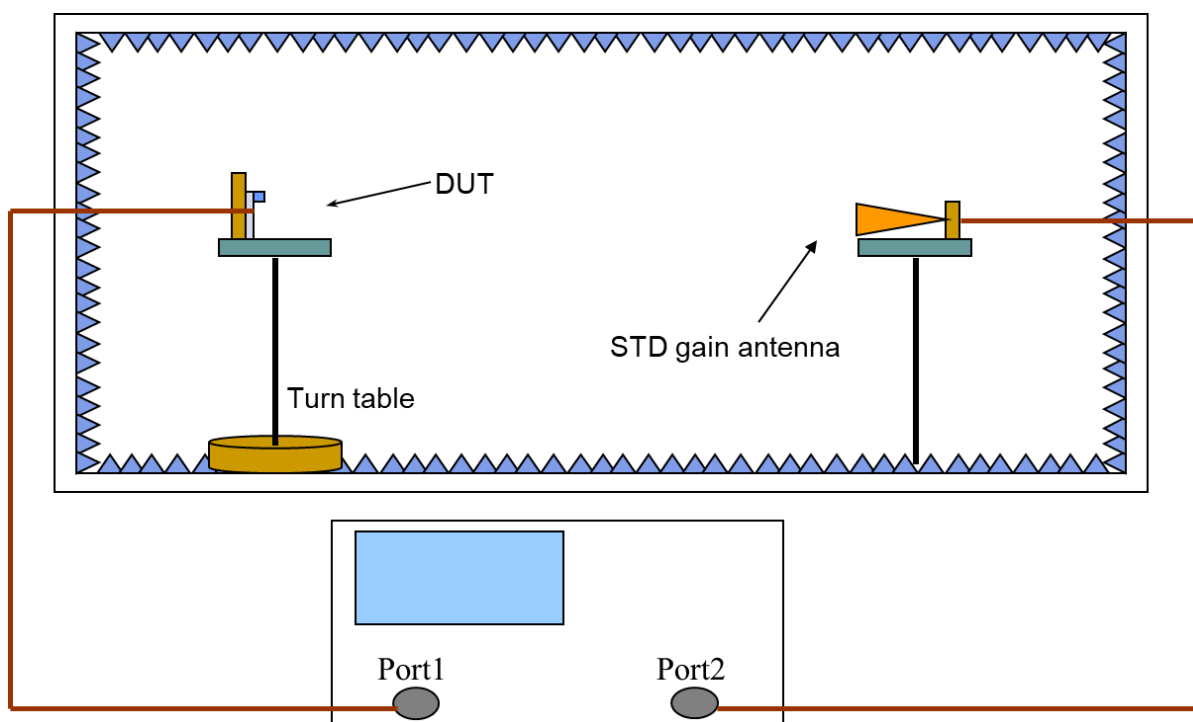
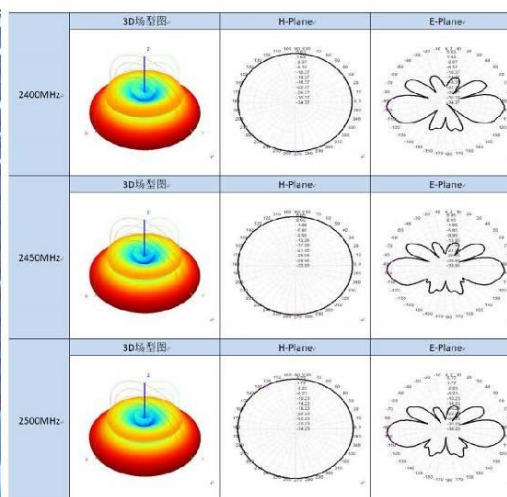
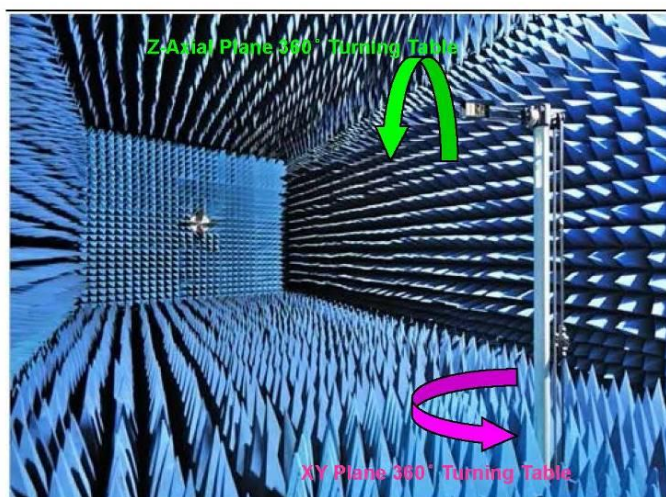
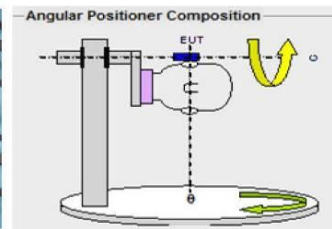
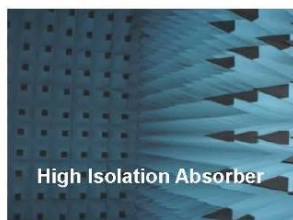
Sample Photo	
 A photograph of a flexible whip antenna. It has a black SMA connector on the left with a silver label that reads '470-510'. A thin black flexible whip extends from the connector to a small black tip on the right.	
A. Electrical Characteristics	
Frequency	470-510MHz
S.W.R.	≤ 2.0
Antenna Gain	1dBi
Efficiency	$\approx 53\%$
Polarization	Linear
Impedance	50 Ohm
B. Material & Mechanical Characteristics	
Connector Type	SMA Plug
Dimension	15*200mm
Weight	0.02Kg
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

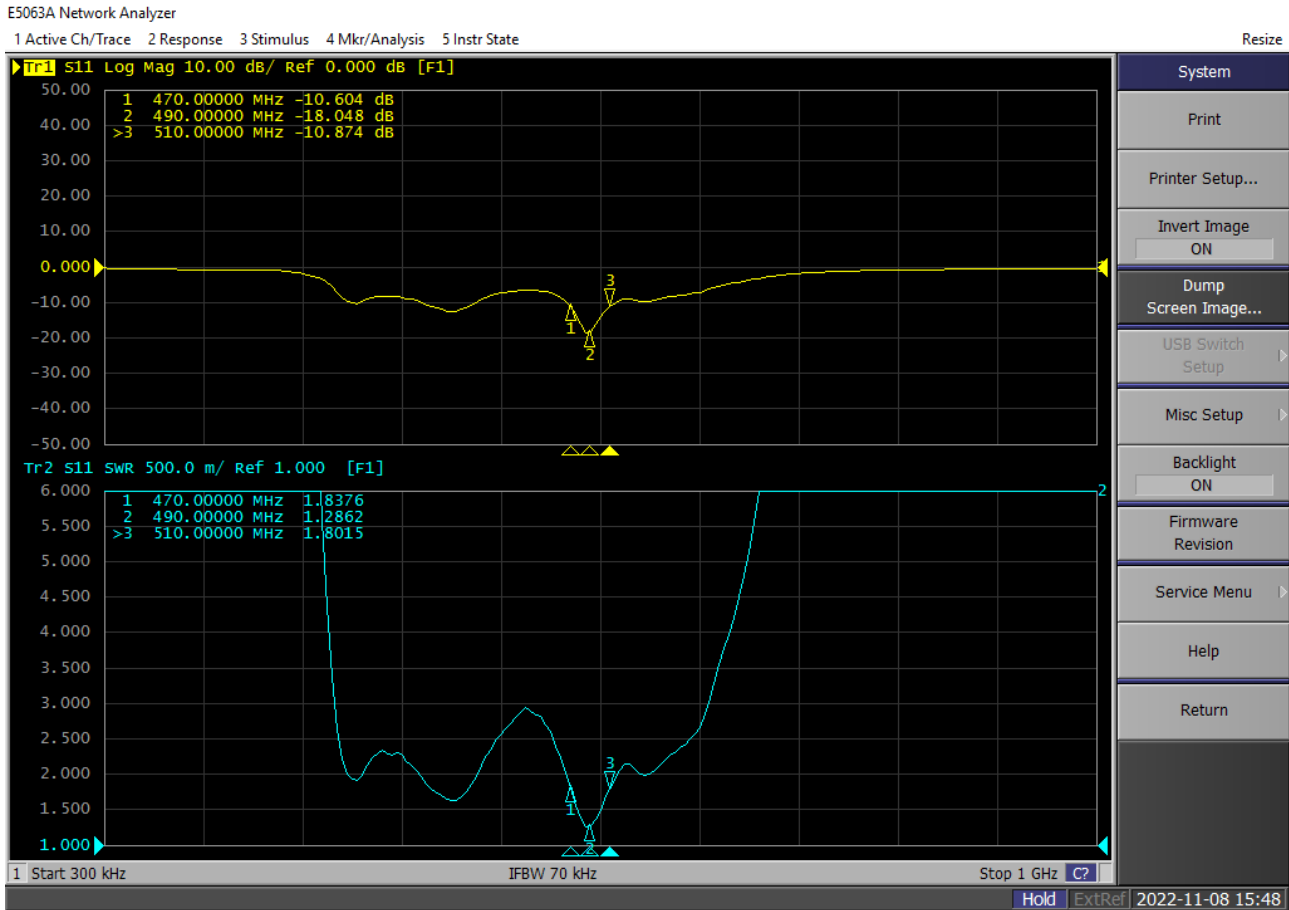




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2. Antenna - S Parameter Test Data

2.1. VSWR

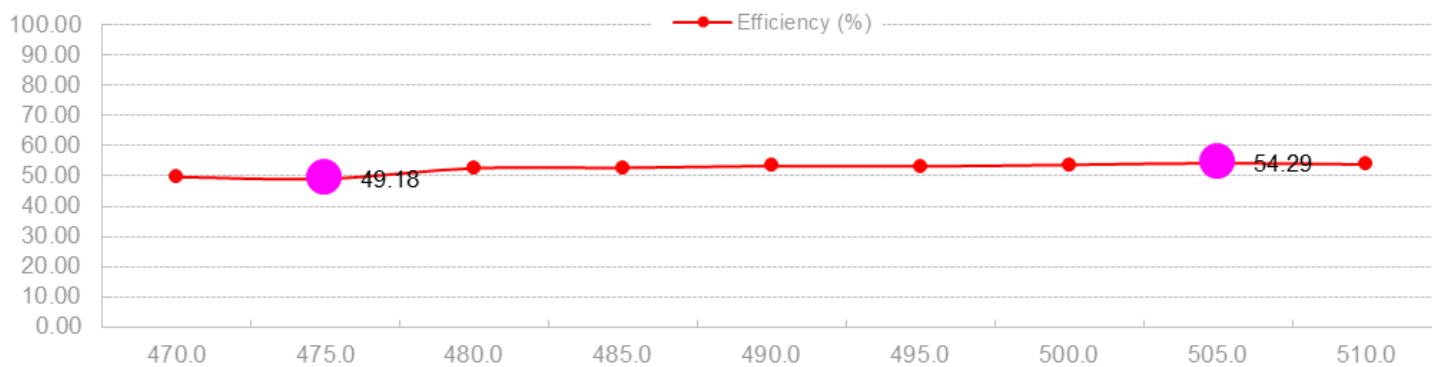




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2.2. Total Efficiency & Gain:

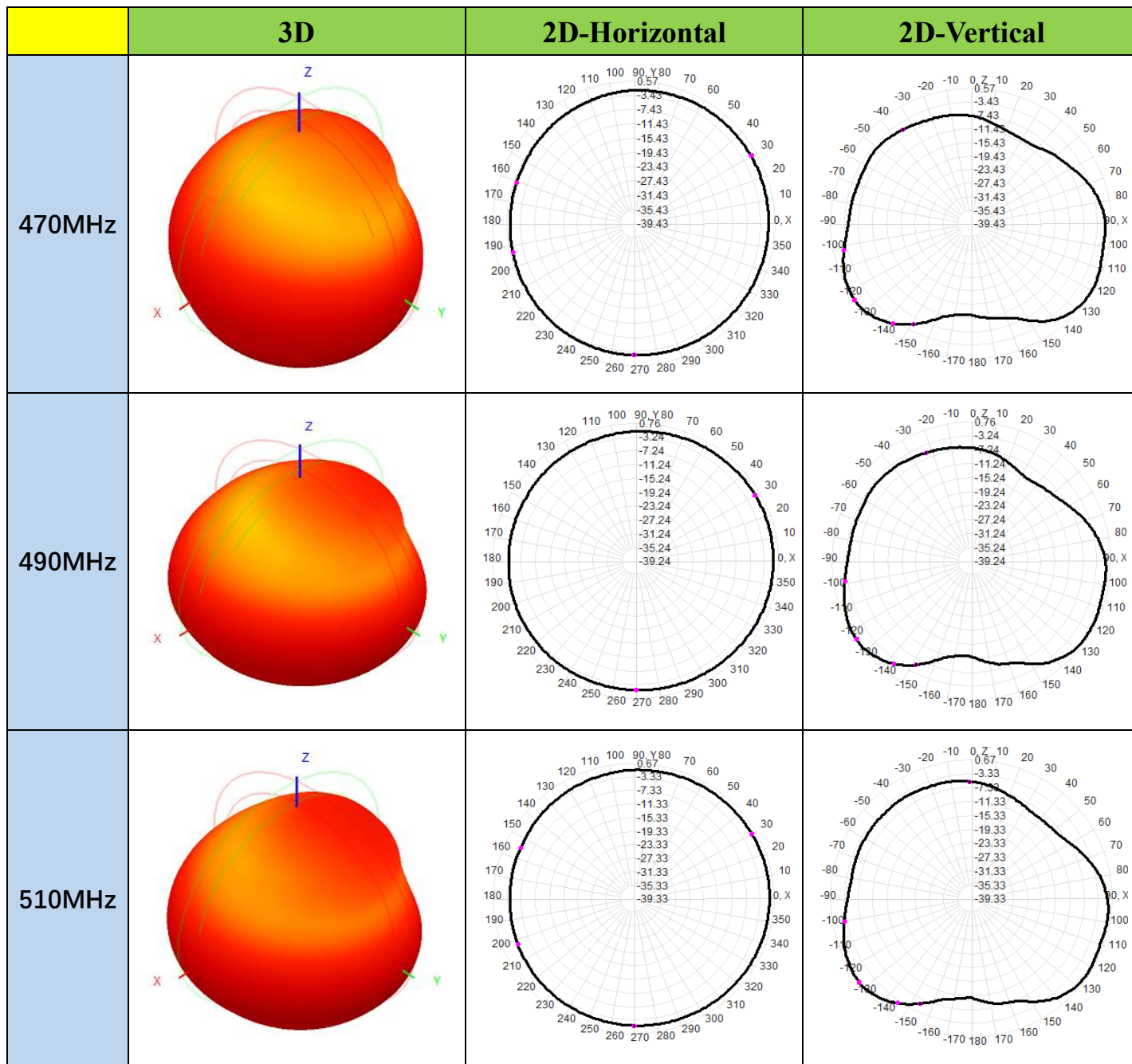
Frequency (MHz)	470.0	475.0	480.0	485.0	490.0	495.0	500.0	505.0	510.0
Gain (dBi)	0.58	0.58	0.89	0.86	0.83	0.74	0.74	0.80	0.81
Efficiency (%)	49.78	49.18	52.67	52.77	53.39	53.26	53.76	54.29	53.89





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2.3 Radiation Pattern





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3. Mechanical Drawing

