


1. Specification

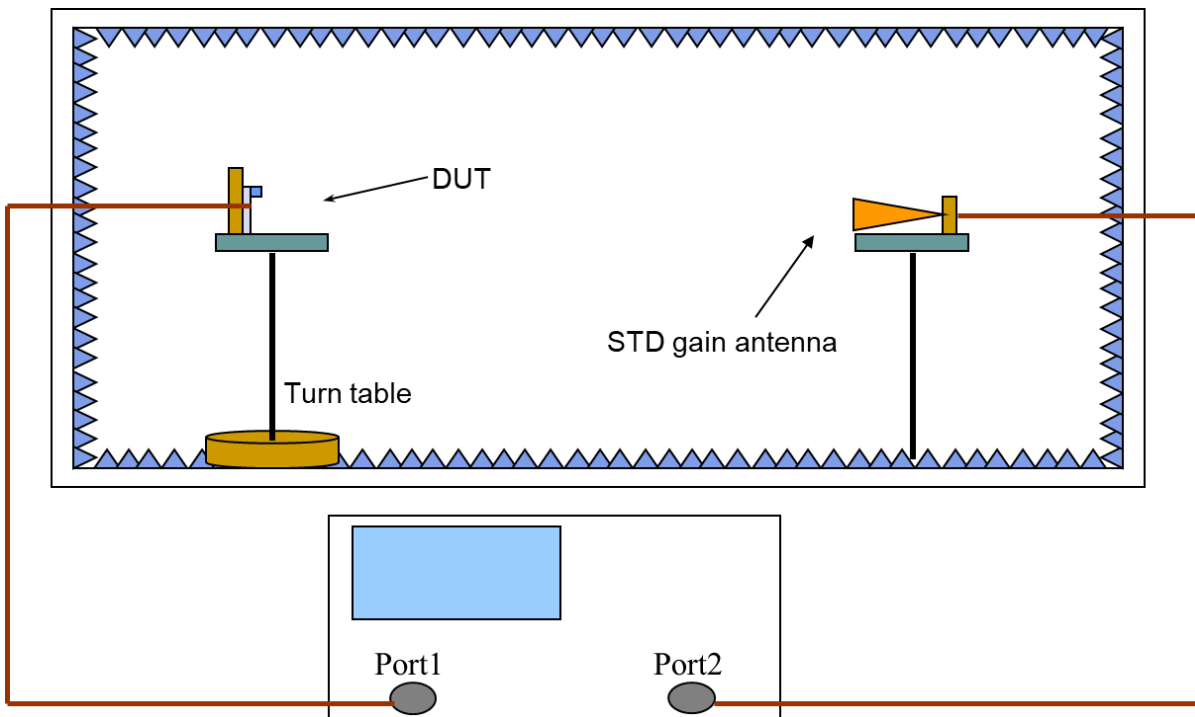
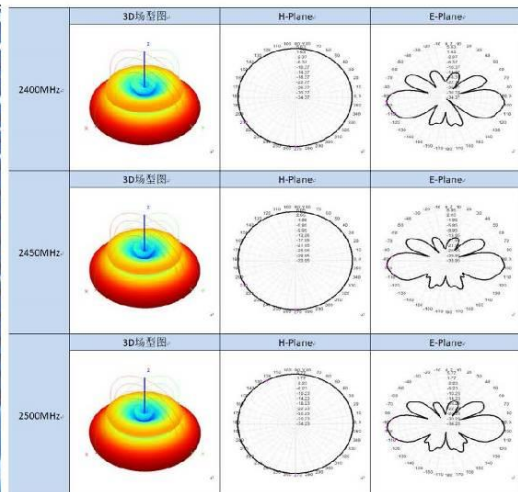
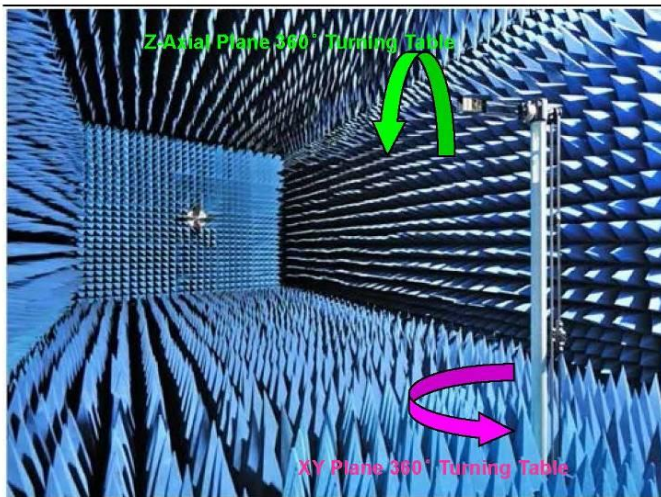
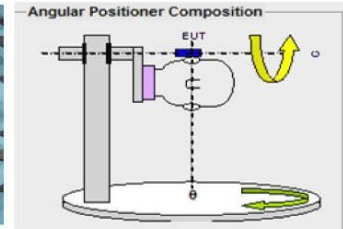
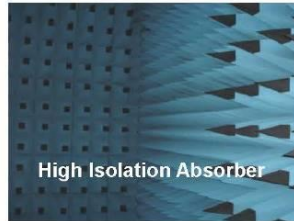
| Sample Photo | |
|--|-------------------|
|  | |
| A. Electrical Characteristics | |
| Frequency | 5150-5850MHz |
| S.W.R. | <2.0 |
| Antenna Gain | 15dBi |
| Polarization | Vertical |
| Horizontal Beamwidth | 30±6° |
| Vertical Beamwidth | 40±5° |
| F/B | >20dB |
| Impedance | 50Ohm |
| Max. Power | 50W |
| B. Material & Mechanical Characteristics | |
| Connector Type | N connector |
| Dimension | 97*97*23mm |
| Radome material | ABS |
| Weight | 0.105Kg |
| 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 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

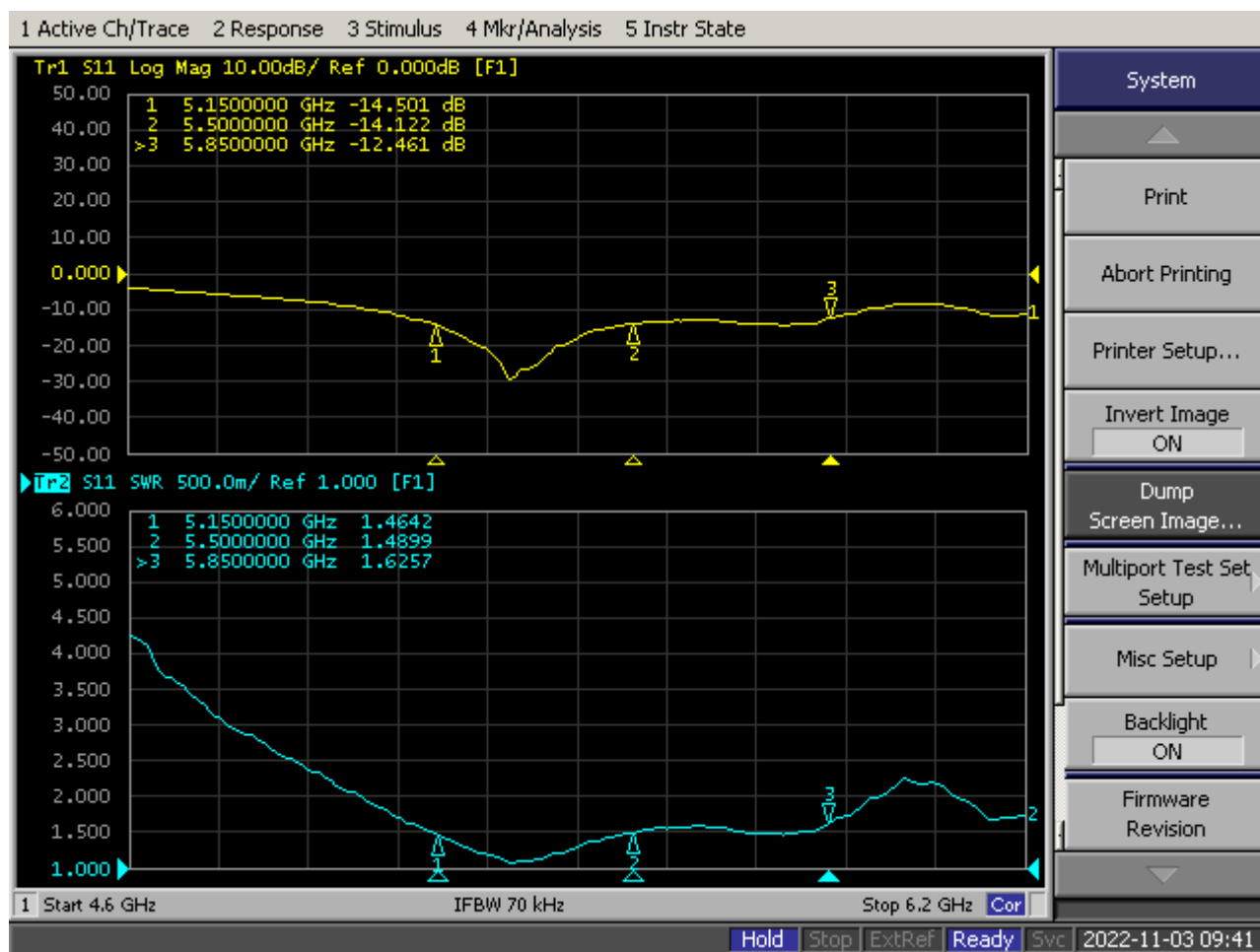




Product Number: BGS-AN5850-979723G
Product Name: Flat Panel Antenna 5.8GHz 15dBi

2. Antenna - S Parameter Test Data

2.1 VSWR





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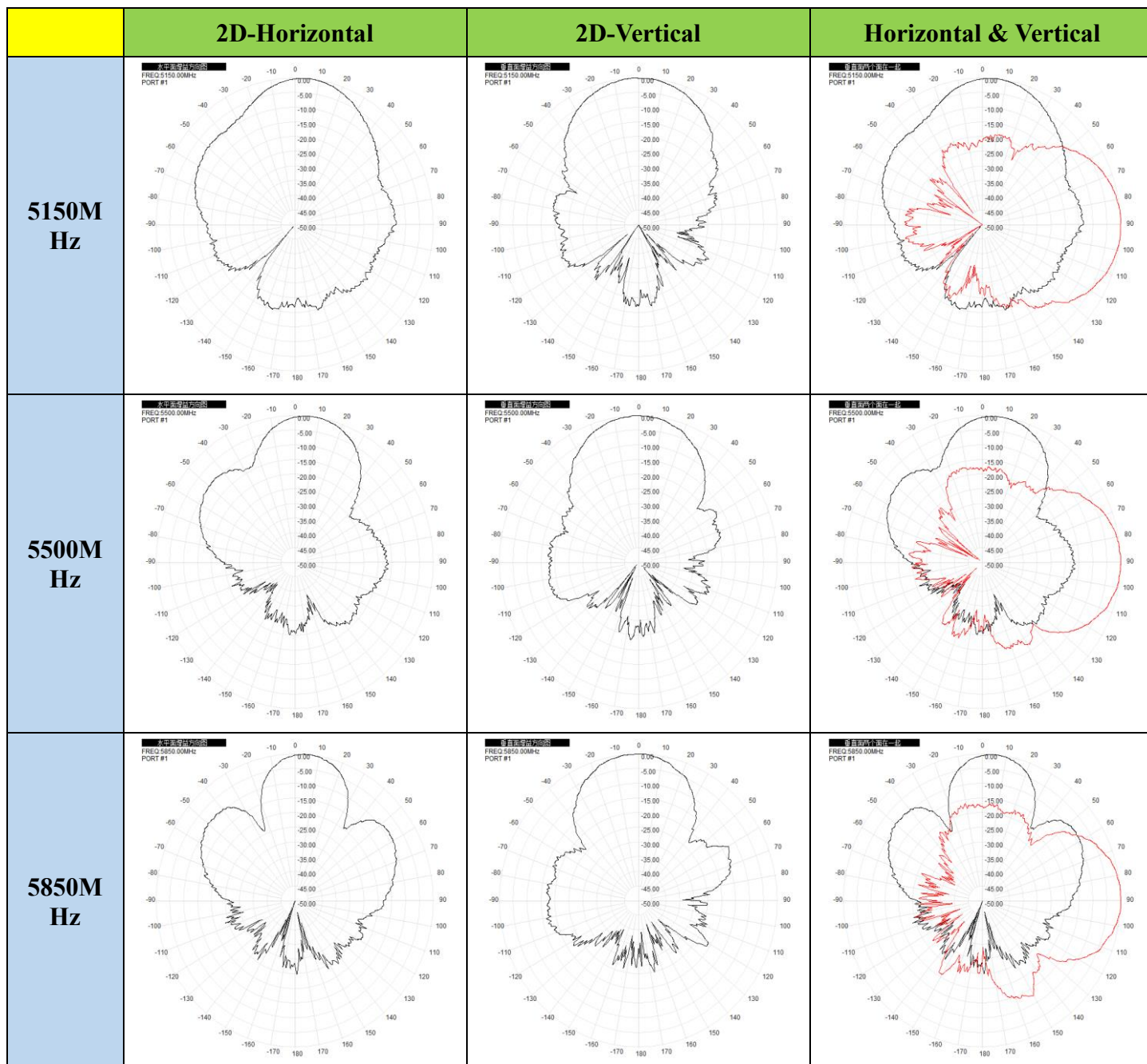
2.2 Gain:

| Frequency(MHz) | Gain(dBi) |
|----------------|-----------|
| 5150 | 13.6 |
| 5200 | 13.8 |
| 5250 | 14.1 |
| 5300 | 14.3 |
| 5350 | 14.5 |
| 5400 | 14.8 |
| 5450 | 14.9 |
| 5500 | 15.1 |
| 5550 | 15.5 |
| 5600 | 15.4 |
| 5650 | 15.4 |
| 5700 | 15.3 |
| 5750 | 15.5 |
| 5800 | 14.9 |
| 5850 | 14.9 |



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2.3 Radiation Pattern





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| | | | | | | | |
|----------------|--|-----------------|--|-------------|--|-----------------|--|
| RoHS | | CUSTOMER | | | | DATE | |
| PART NO | | | | REV. | | ORDER NO | |
| | | | | New Release | | 2022.11.03 | |

Antenna
L Bracket
Pipe Bracket
U Bolt
Mount Pole (Ø30-Ø50)

L Bracket

U Bolt

Pipe Bracket

| | | | |
|---|------------|-------------|------------------|
| <p>东莞市博戈斯通信科技有限公司 Dongguan Boges Communication Technology Co., Ltd</p> | | | |
| PARTNAME: Antenna Accessories | | | |
| PART NO.: BGS-AN5850-979723G | | | |
| APPROVED BY | CHECKED BY | DESIGNED BY | DATE: 2022-11-03 |
| Jin Yang | Zhang Yong | Rain Li | |
| UNITS: mm | | Tolerance | |
| SCALE: None | | X.X ±0.50 | |
| REVISION: A | | X.XX ±0.15 | |
| | | X° ±3° | |