


1. Specification

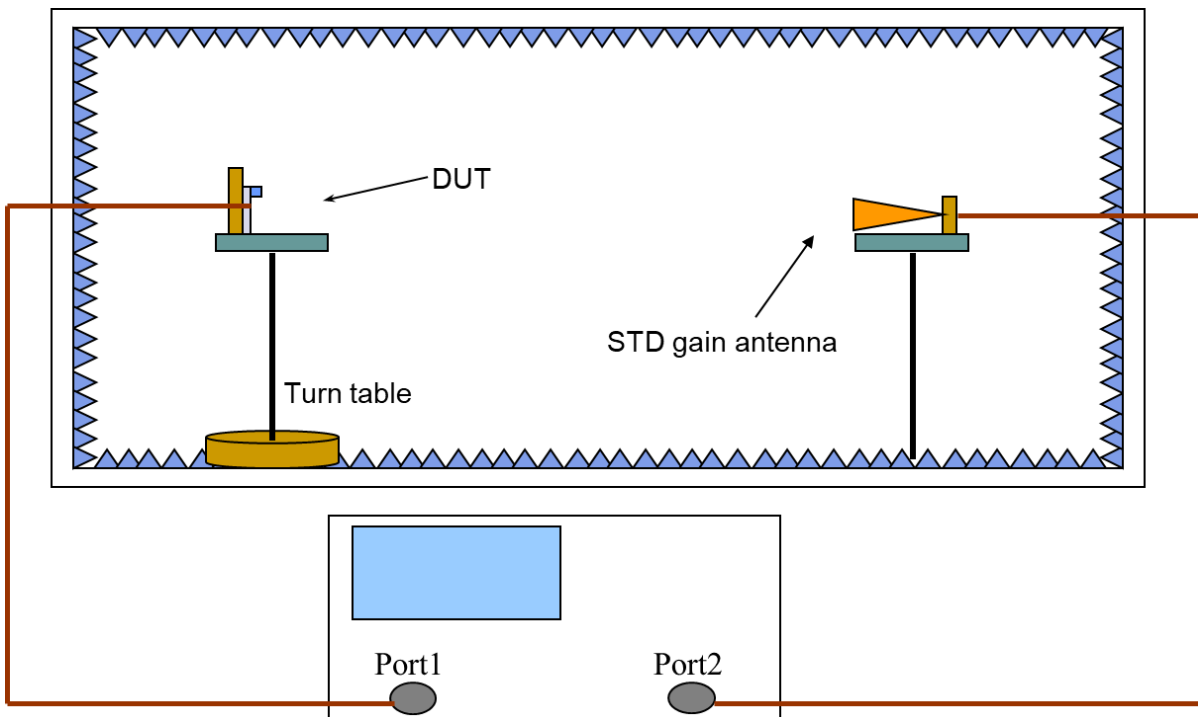
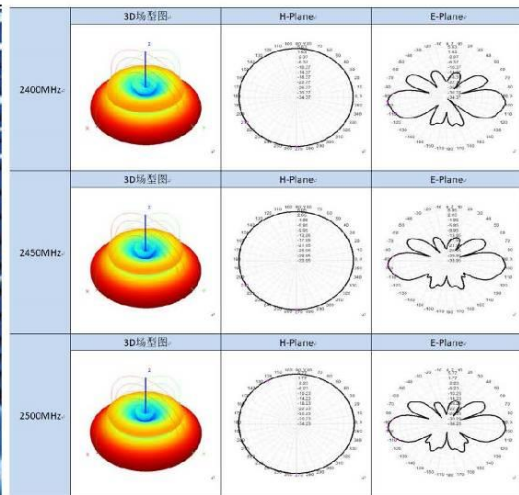
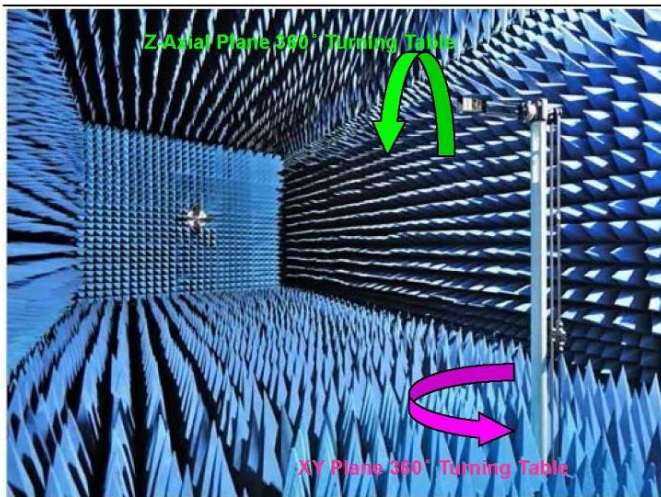
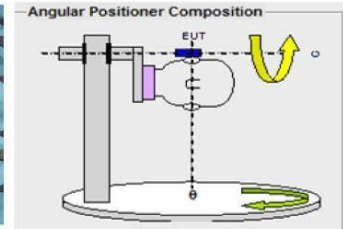
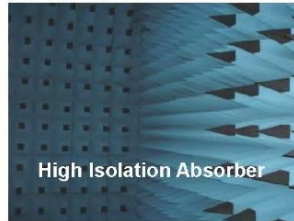
| Sample Photo | |
|--|-------------------|
|  | |
| A. Electrical Characteristics | |
| Frequency | 868MHz |
| Impedance | 50 Ohm |
| S.W.R. | <1.5 |
| Gain | 1.5dBi |
| Efficiency | ≈72% |
| Horizontal Beamwidth | 360° |
| Vertical Beamwidth | 87° |
| Polarization | Linear |
| Max Power | 50W |
| B. Material & Mechanical Characteristics | |
| Connector Type | N connector |
| Dimension | Φ 18.5*240mm |
| Weight | 0.134Kg |
| Radome material | Fiberglass |
| 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

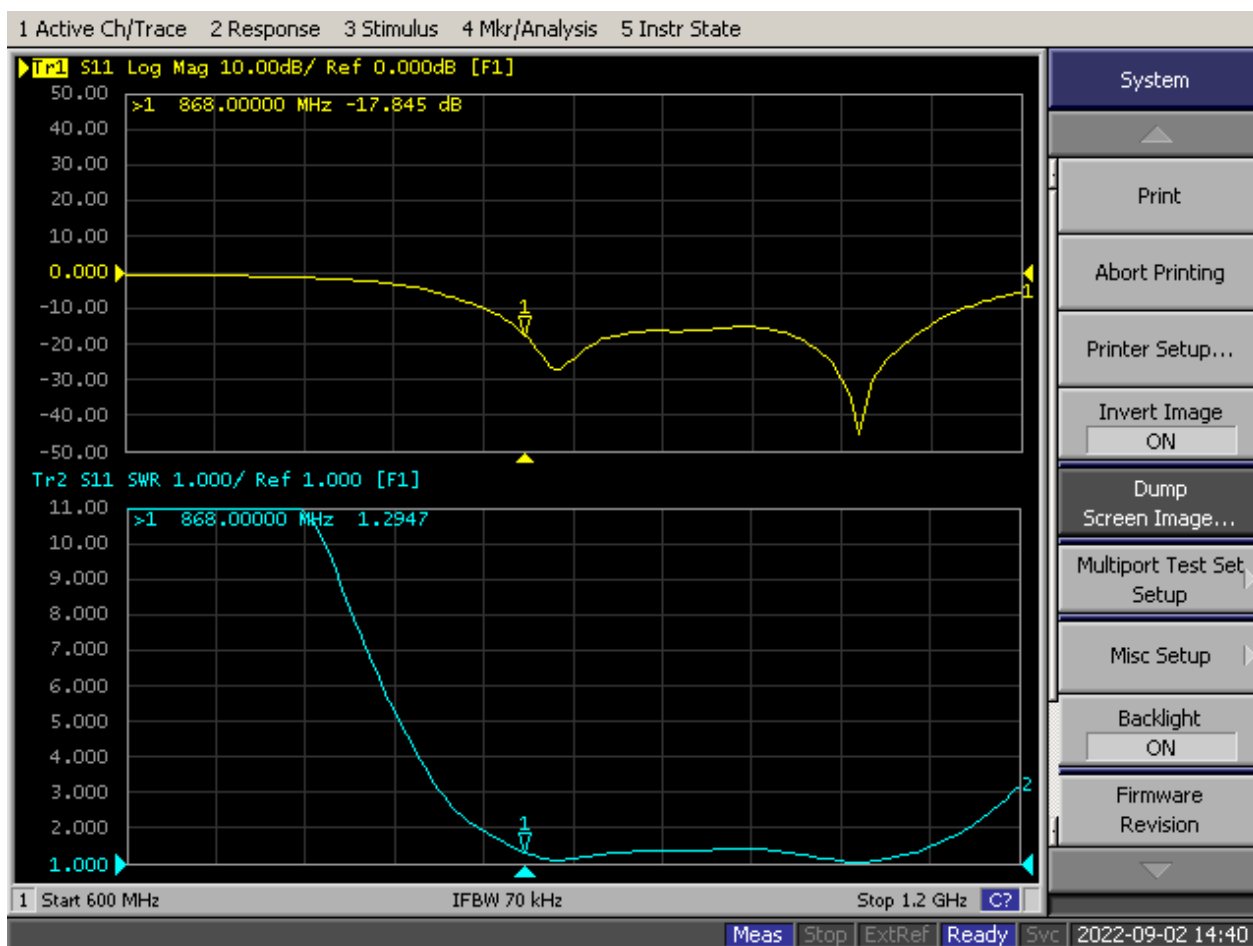




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2. Antenna - S Parameter Test Data

2.1. VSWR

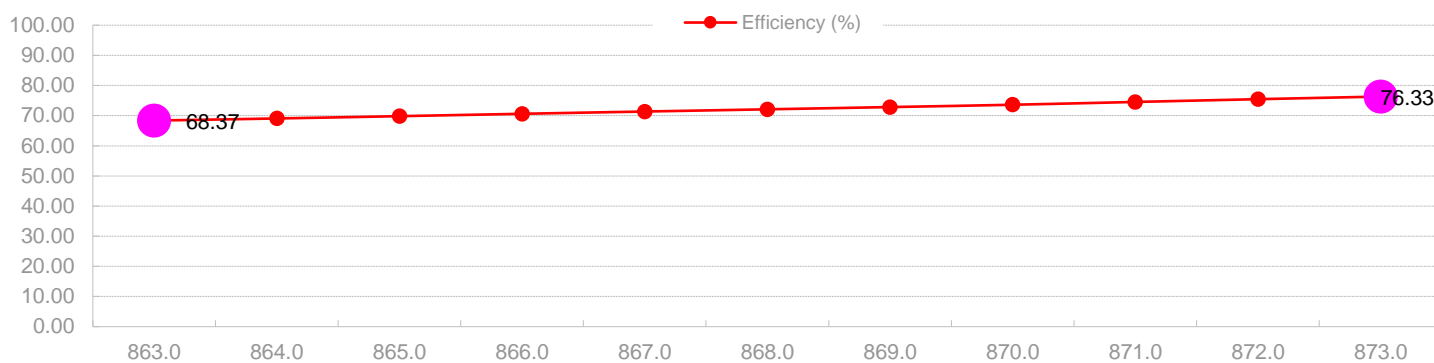




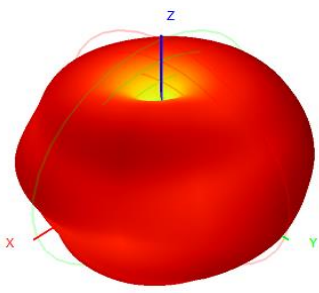
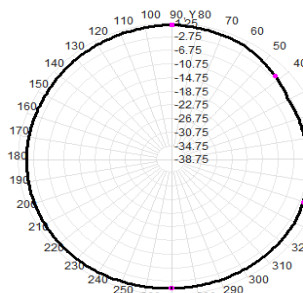
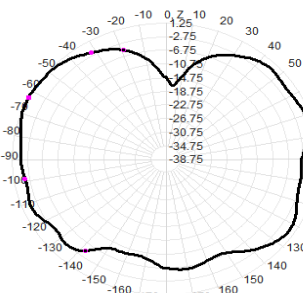
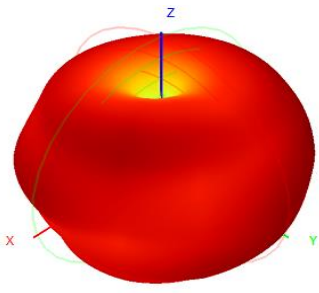
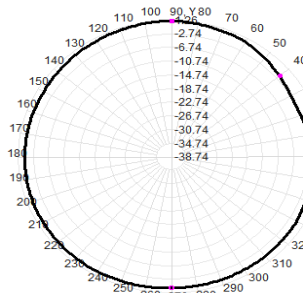
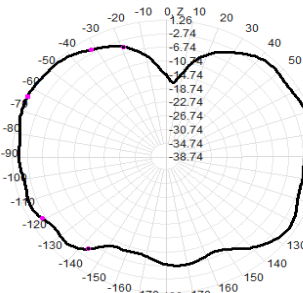
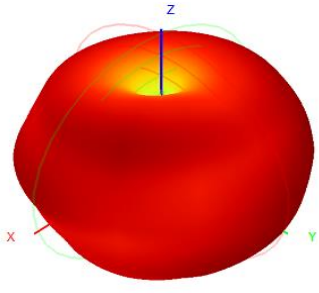
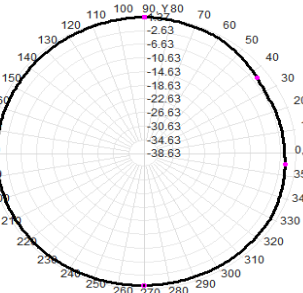
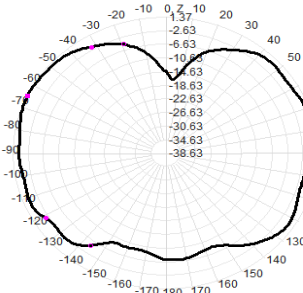
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2.2 Total Efficiency & Gain:

| Frequency(MHz) | 863.0 | 864.0 | 865.0 | 866.0 | 867.0 | 868.0 | 869.0 | 870.0 | 871.0 | 872.0 | 873.0 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Gain (dBi) | 1.36 | 1.38 | 1.40 | 1.42 | 1.44 | 1.46 | 1.48 | 1.50 | 1.53 | 1.55 | 1.56 |
| Efficiency (%) | 68.37 | 69.06 | 69.83 | 70.61 | 71.37 | 72.10 | 72.84 | 73.62 | 74.54 | 75.46 | 76.33 |



2.3 Radiation Pattern

| | 3D | 2D-Horizontal | 2D-Vertical |
|--------|---|--|---|
| 863MHz |  |  |  |
| 868MHz |  |  |  |
| 873MHz |  |  |  |



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3. Mechanical Drawing

