

# DAM-D3-V-M1-100-02-00

## 1. Explanation of Part Number

DAM - D3 - V - M1 - 100 - 02 - 00  
 (1) (2) (3) (4) (5) (6) (7)

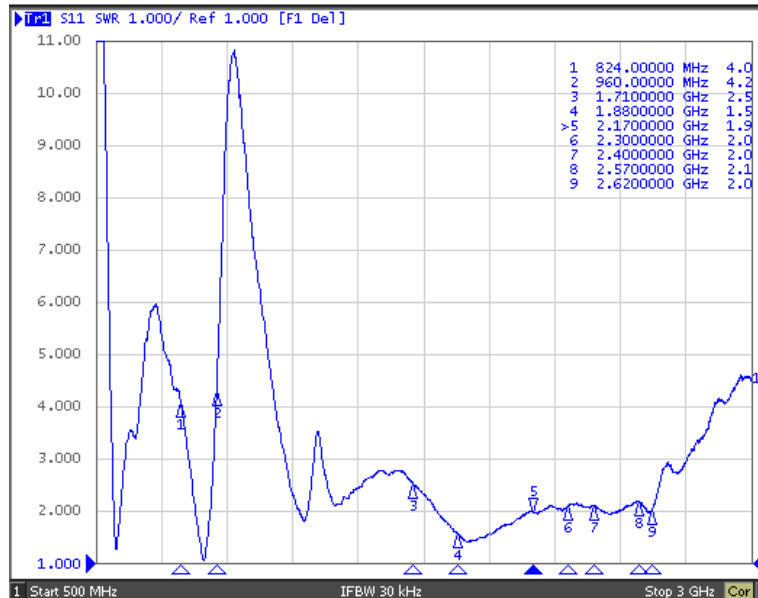
- (1) Product type : DAM-Dipole Antenna Module
  - (2) Appearance Series : D3
  - (3) Frequency : V =824~960MHz 1710~2700MHz
  - (4) Coaxial Cable Specification : Cable 1.13
  - (5) Coaxial Cable Length : 100mm
  - (6) Connector Types :02= IPEX 20278
  - (7) Suffix for special requirements :00= One Cable
- ※ RoHS Compliant

## 2. Electrical properties:

Item	Property
Frequency Range	824-960MHz 1710-2700MHz
Impedance	50 Ω (Typ.)
VSWR	4.5 max.
Peak Gain	4.0 dBi max (Typ.)

### 2-1 VSWR

Frequency(MHz)	824	960	1710	1880	2170	2300	2400	2570	2620	2700
VSWR	4.0	4.2	2.5	1.5	1.9	2.0	2.0	2.1	2.0	2.9



UNLESS OTHER SPECIFIED TOLERANCES ON :

X=N/R      X.X=N/R      X.XX =N/R  
 ANGLES=N/R      HOLEDIA=N/R

SCALE : N/R

UNIT : mm

DRAWN BY : 曹云中

CHECKED BY : 金剑

DESIGNED BY : 徐克文

APPROVED BY : 徐克文



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DOCUMENT NO.

SPEC REV.  
P0

## 2-2 Efficiency and Radiation Patten

**Instruments:** Anechoic Chamber, Network Analyzer, Quarter Ridge Horn Antenna.

### Chamber description:

1. The anechoic chamber satisfied a far-field measurement system condition with size of 8m\*4m\*4m.
2. The Probing antenna is a Quarter Ridge Horn Antenna which is placed in the one side of chamber And the AUT is placed in the other side of the chamber.
3. The antenna under test is fixed on a step rotator. We can control the rotating angle for accurate or rough measurement.

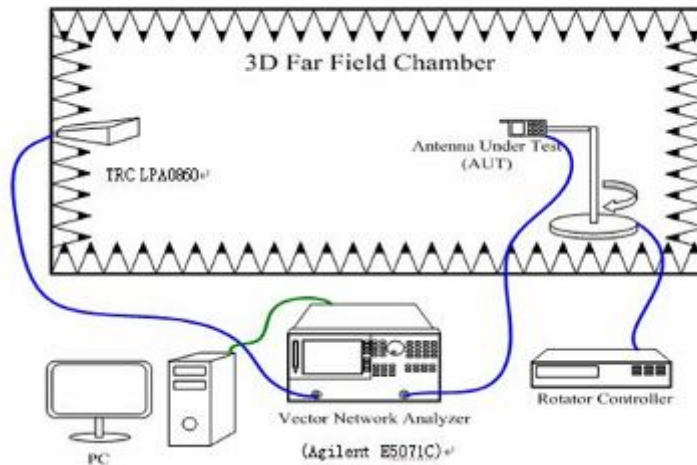


Fig. 1 shows the interior components of Anechoic chamber

### 2-2-1 Efficiency & Gain (dBi)

Frequency (MHz)	Peak Gain(dBi)	AVE Gain(dBi)	Efficiency (%)
824	0.47	-3.35	46.22
880	0.87	-2.95	50.73
920	0.92	-2.54	55.72
960	0.71	-3.39	45.81
1710	3.64	-2.17	60.70
1750	3.60	-1.95	63.78
1790	3.57	-1.84	65.52
1880	3.64	-1.96	63.73
1920	3.70	-1.82	65.74
1990	3.69	-2.26	59.38
2030	3.37	-2.35	58.17
2170	2.85	-2.49	56.39
2300	2.79	-2.67	54.05
2400	3.22	-2.64	54.43
2500	3.29	-2.93	50.89
2600	1.69	-3.11	48.83
2700	1.22	-3.35	46.23

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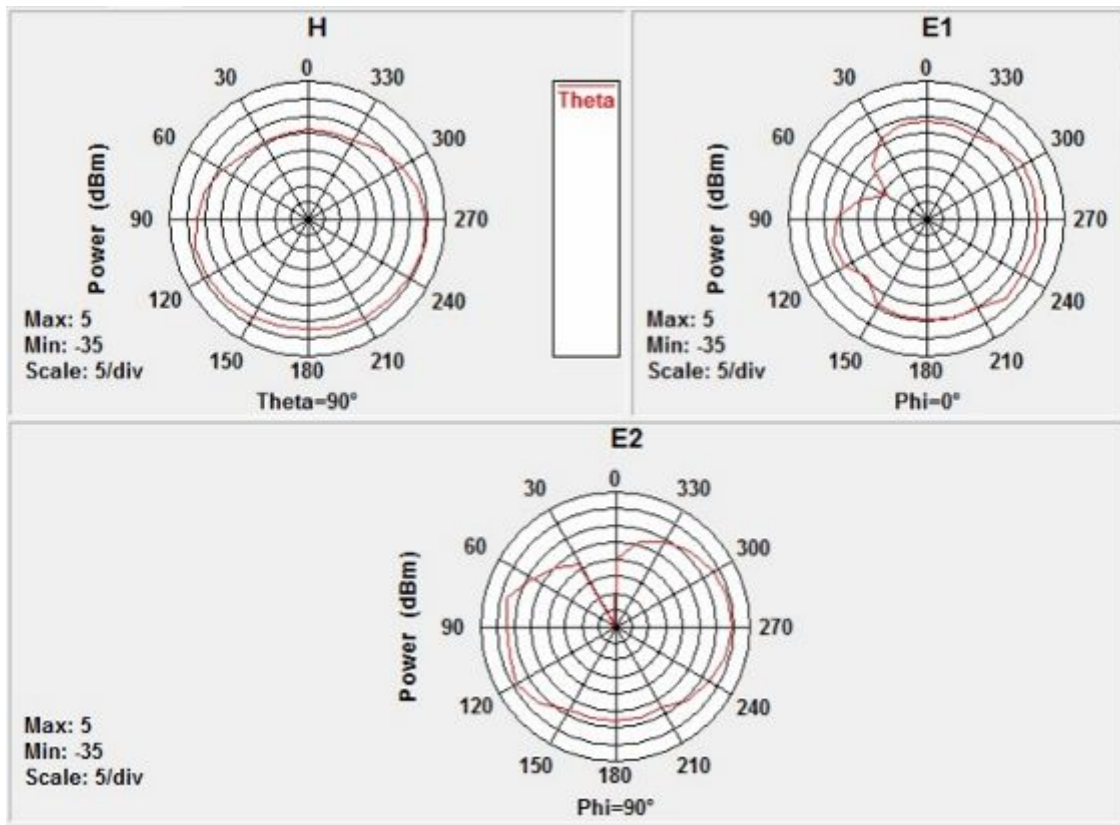
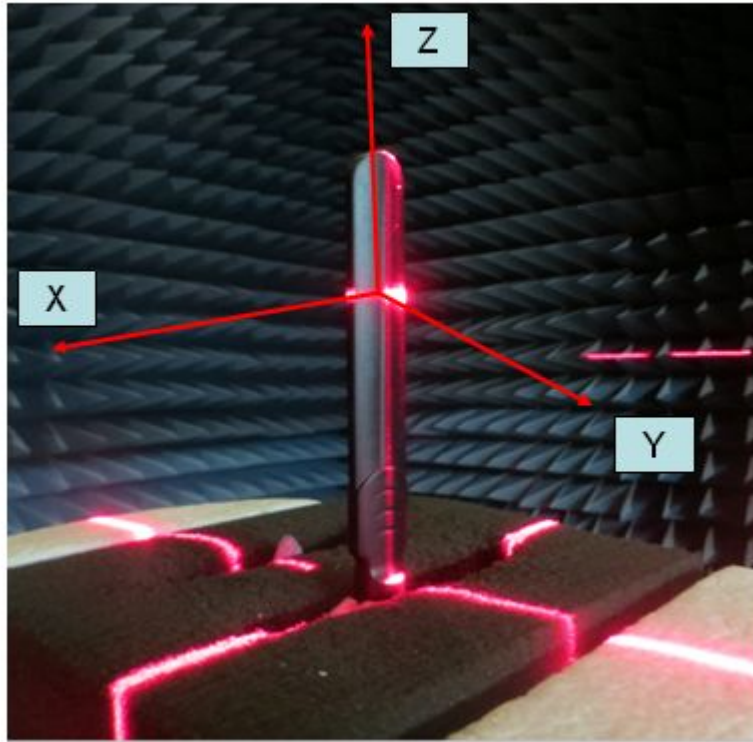
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## 2-2-2 2D Radiation Patten



900MHz

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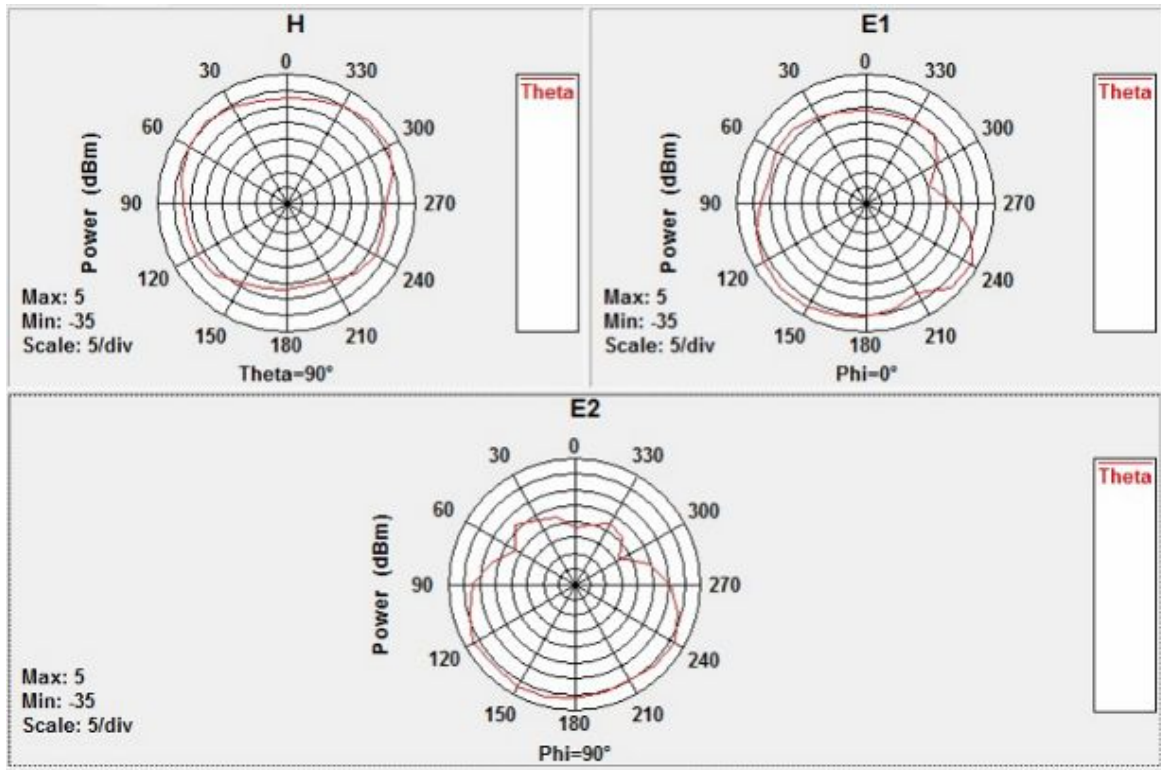
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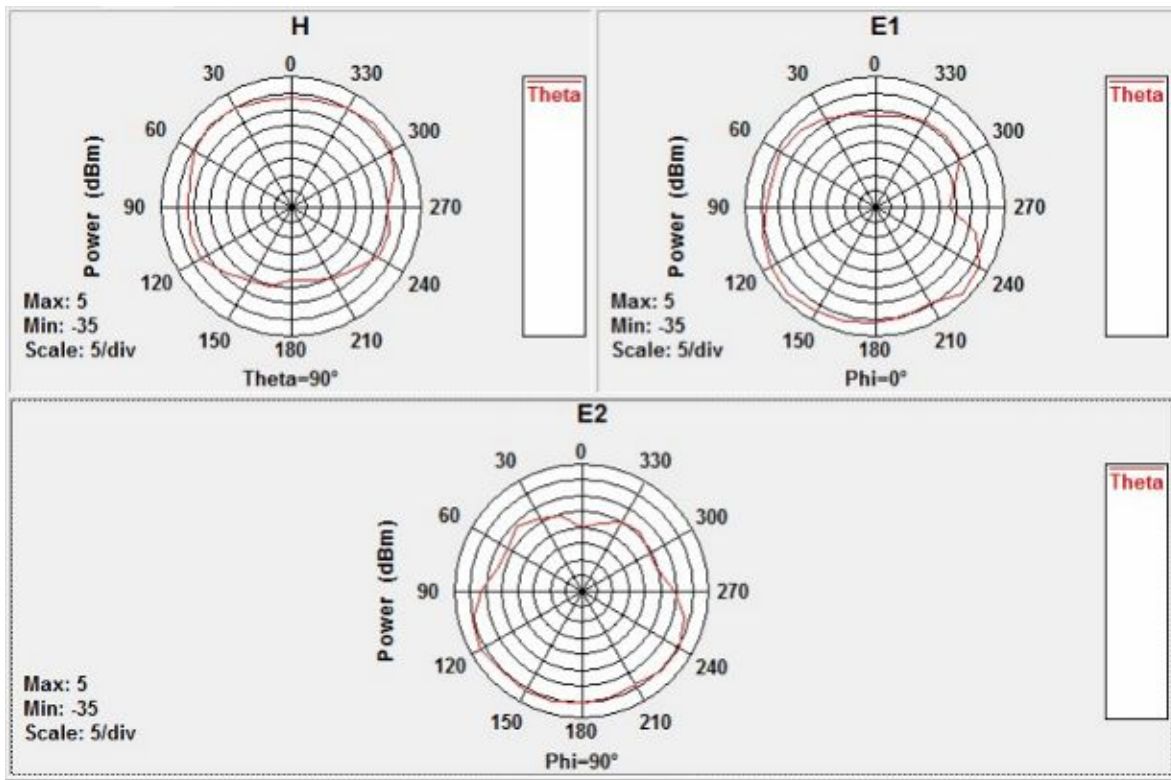
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1800MHZ



1900MHZ

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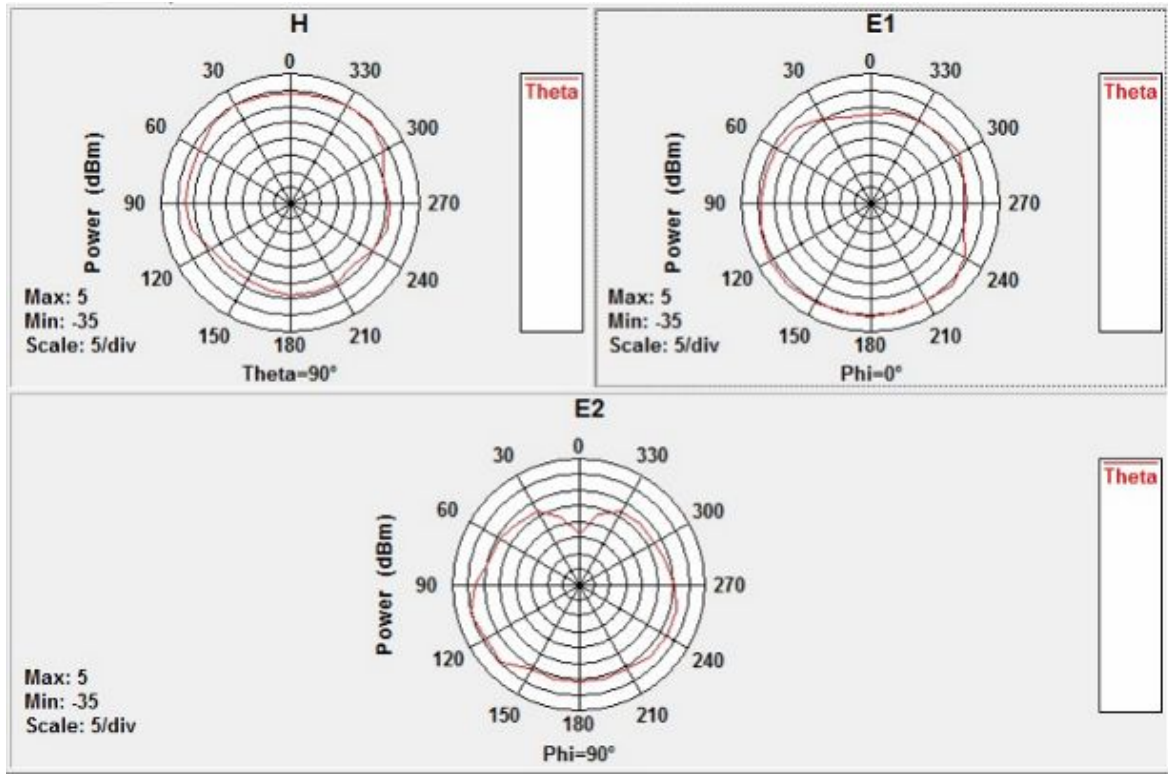
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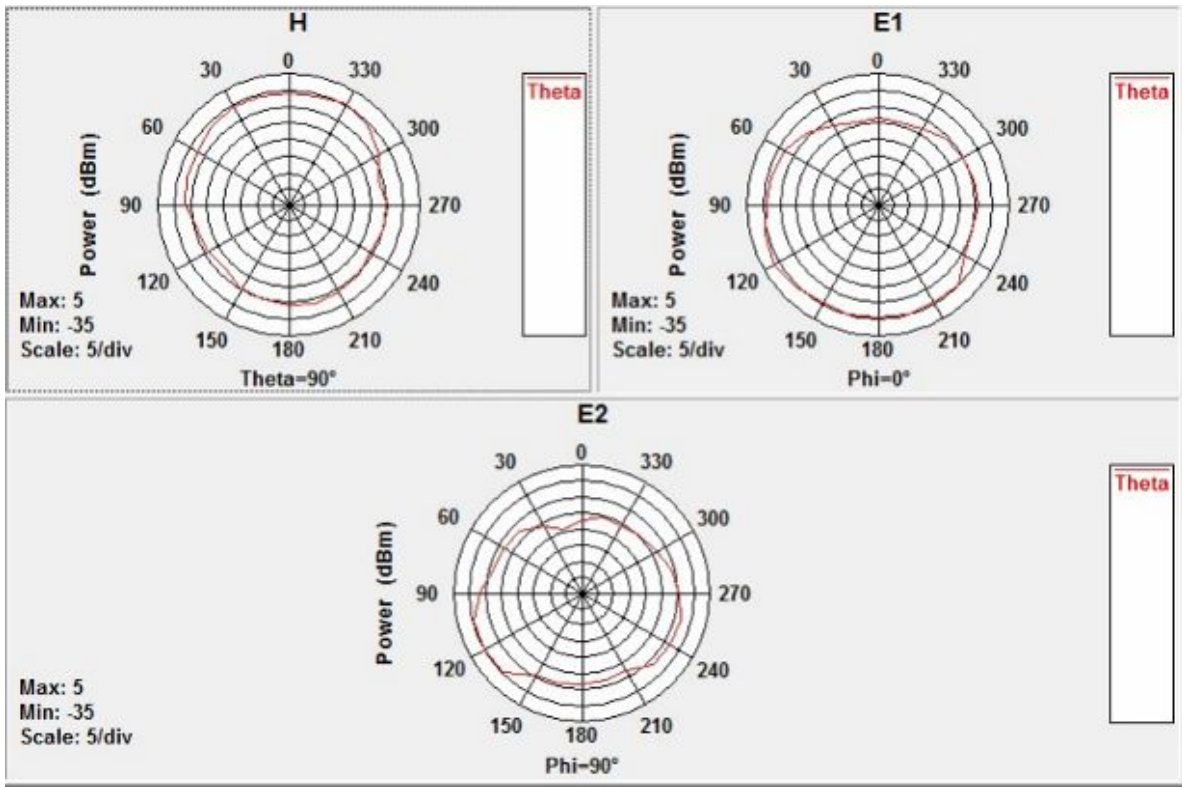
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2100MHz



2300MHz

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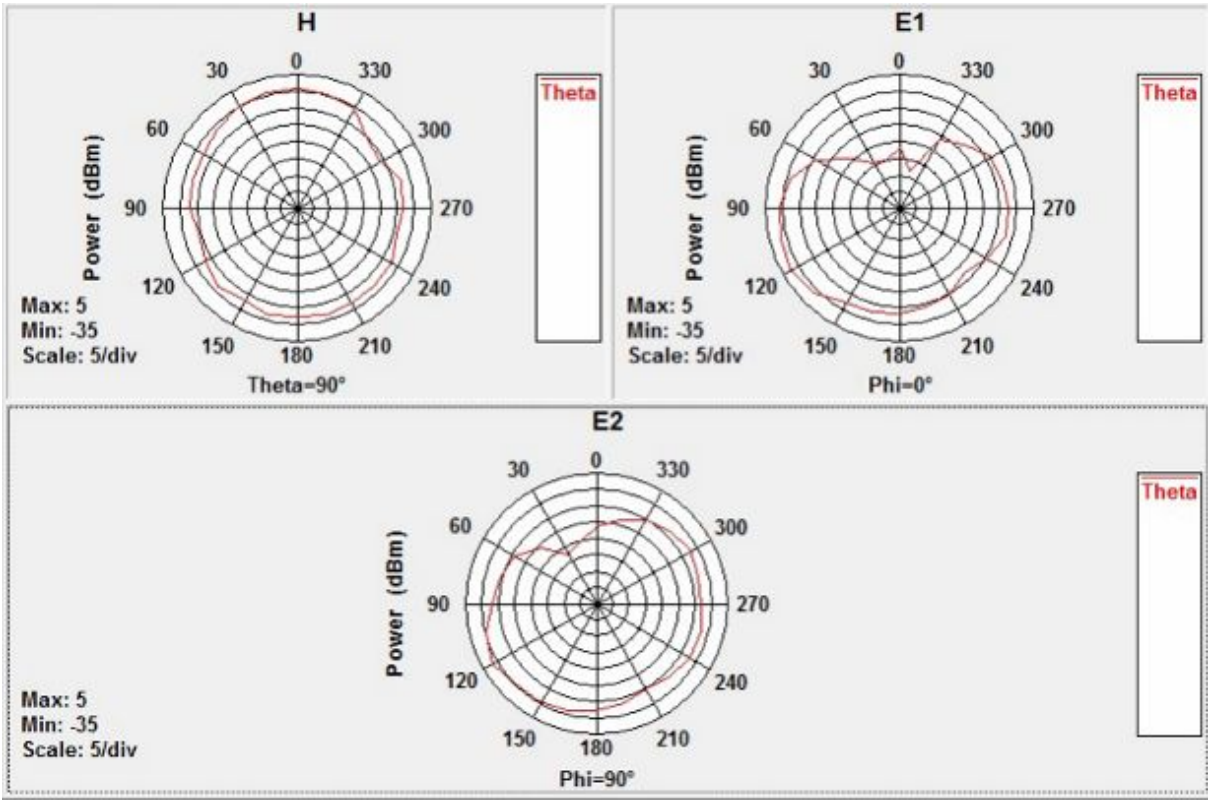
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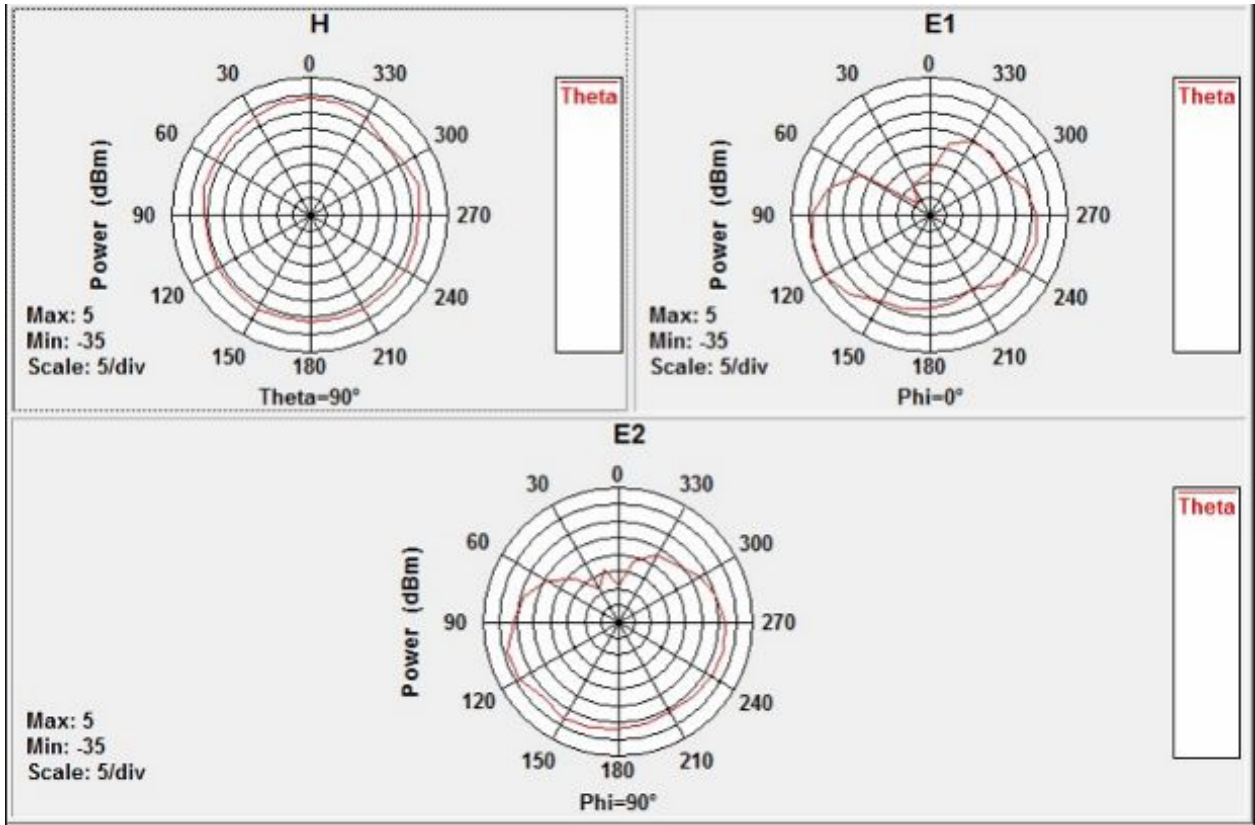
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2500MHz



2600MHz

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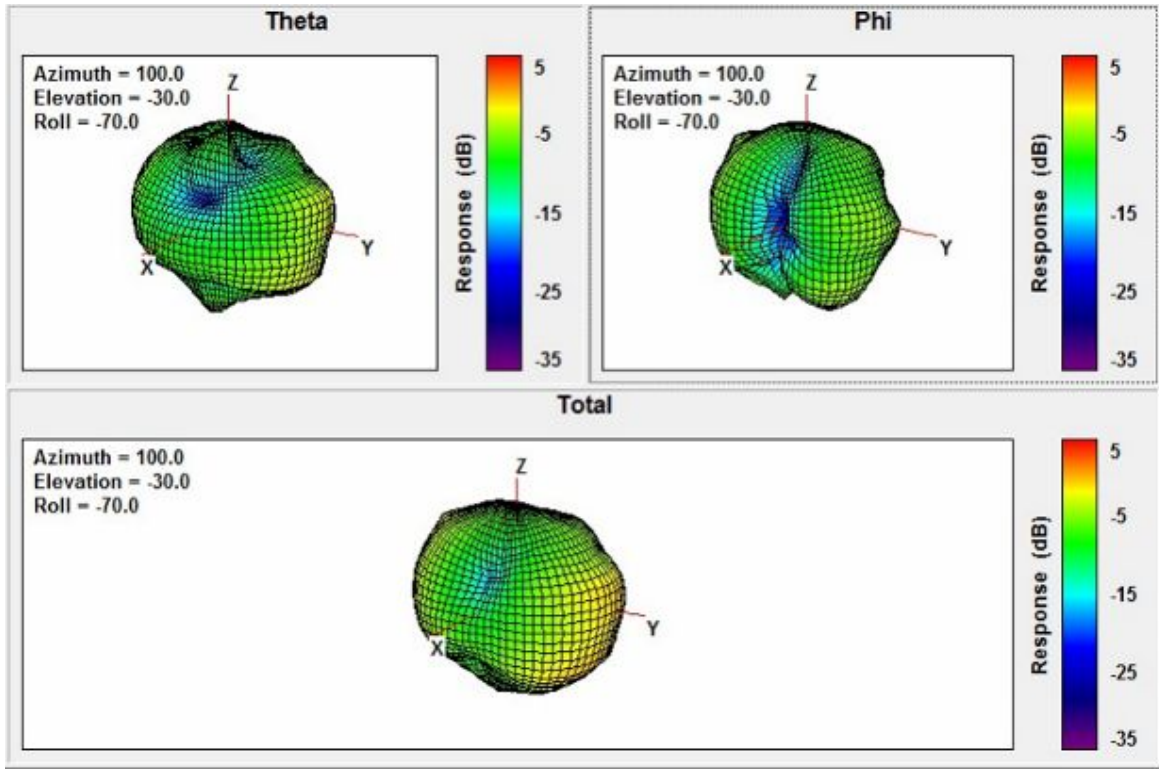
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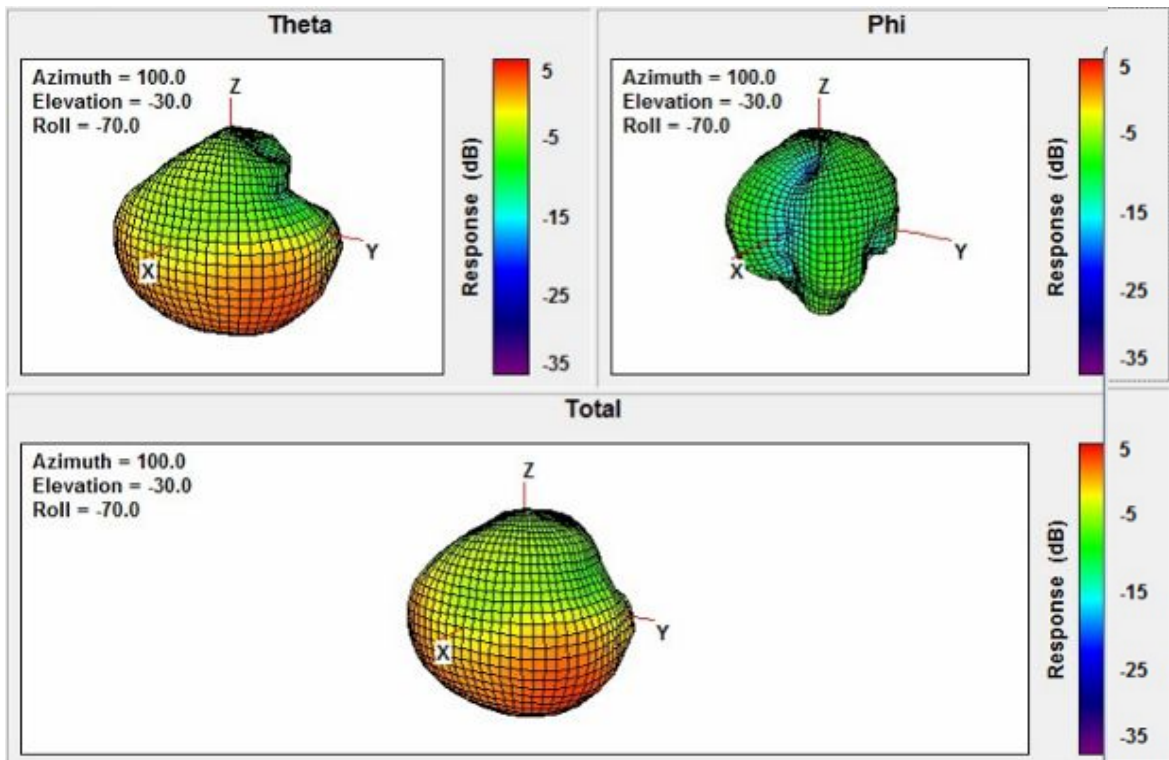
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## 2-2-2 3D Radiation Patten



900MHz



1800MHz

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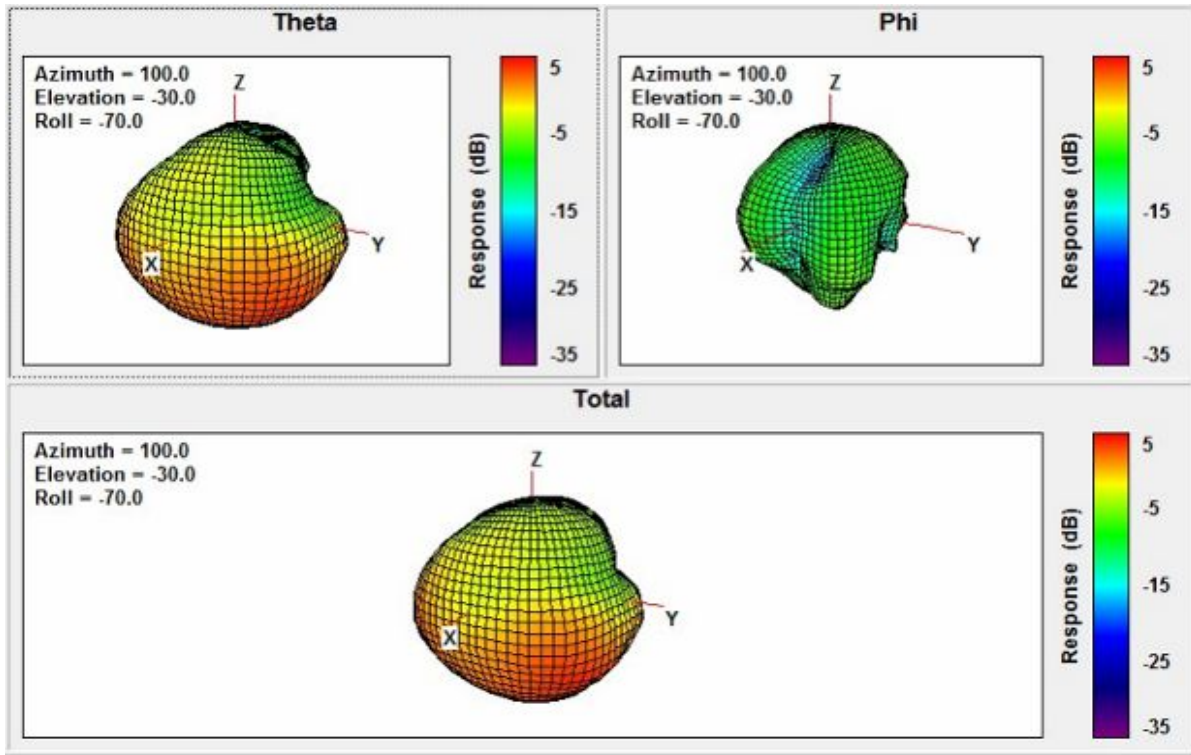
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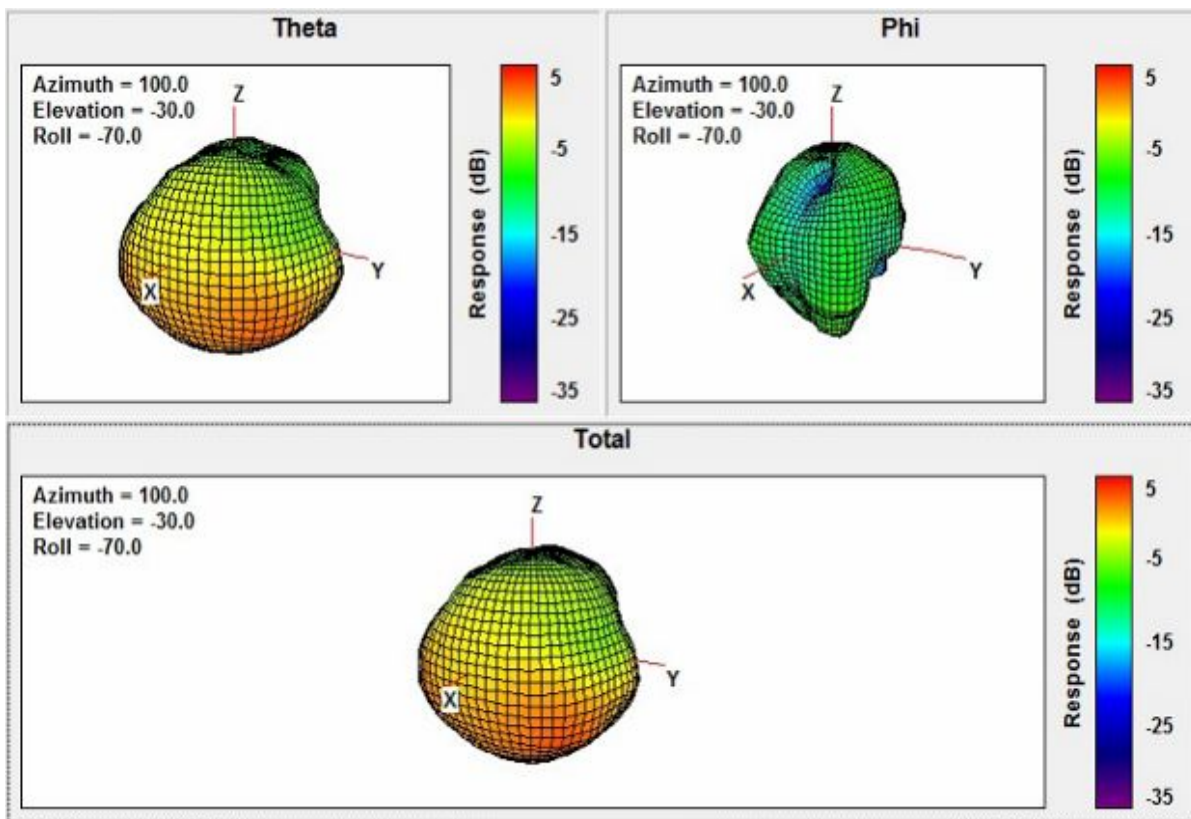
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1900MHz



2100MHz

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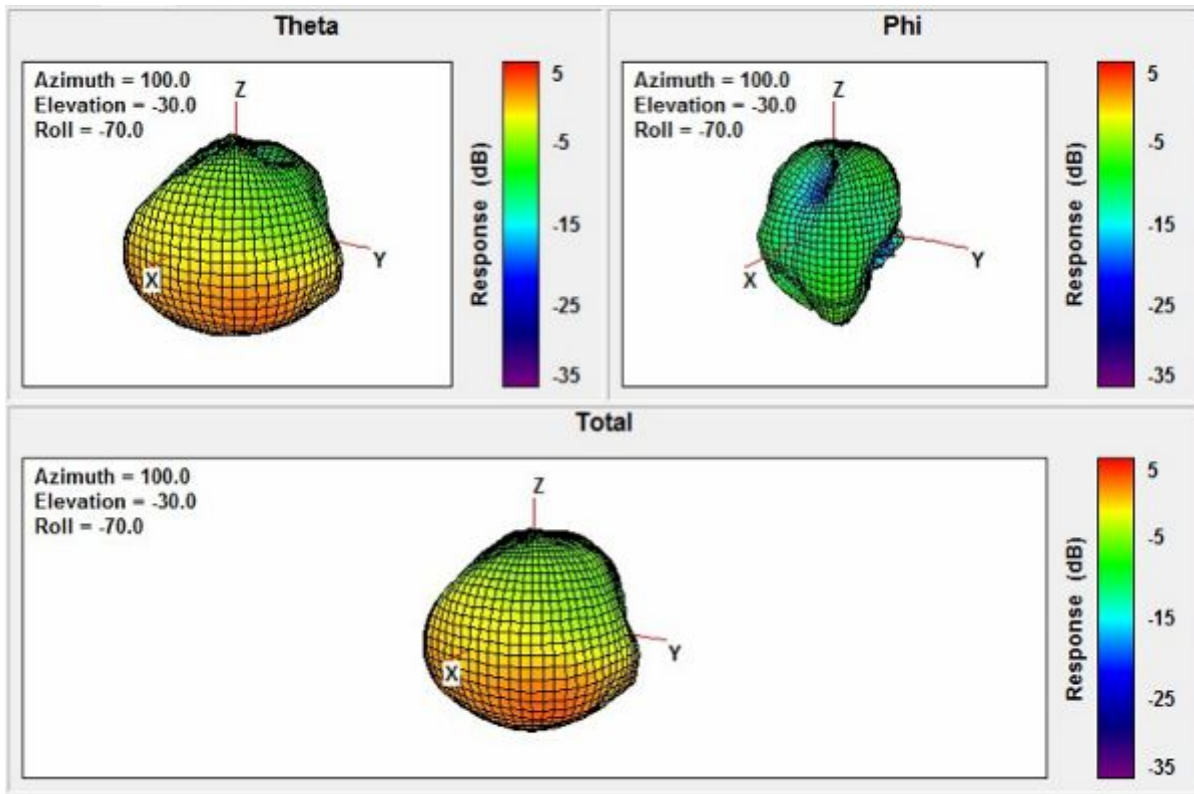
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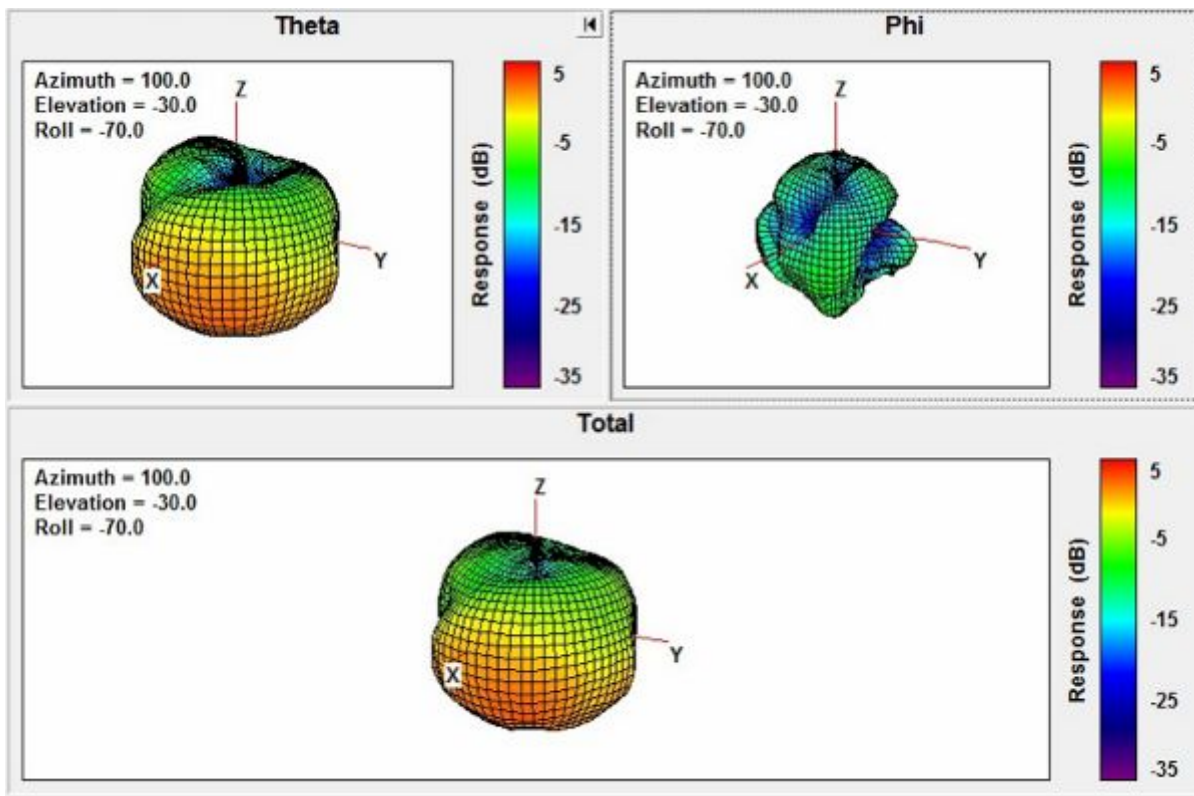
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2300MHz



2500MH

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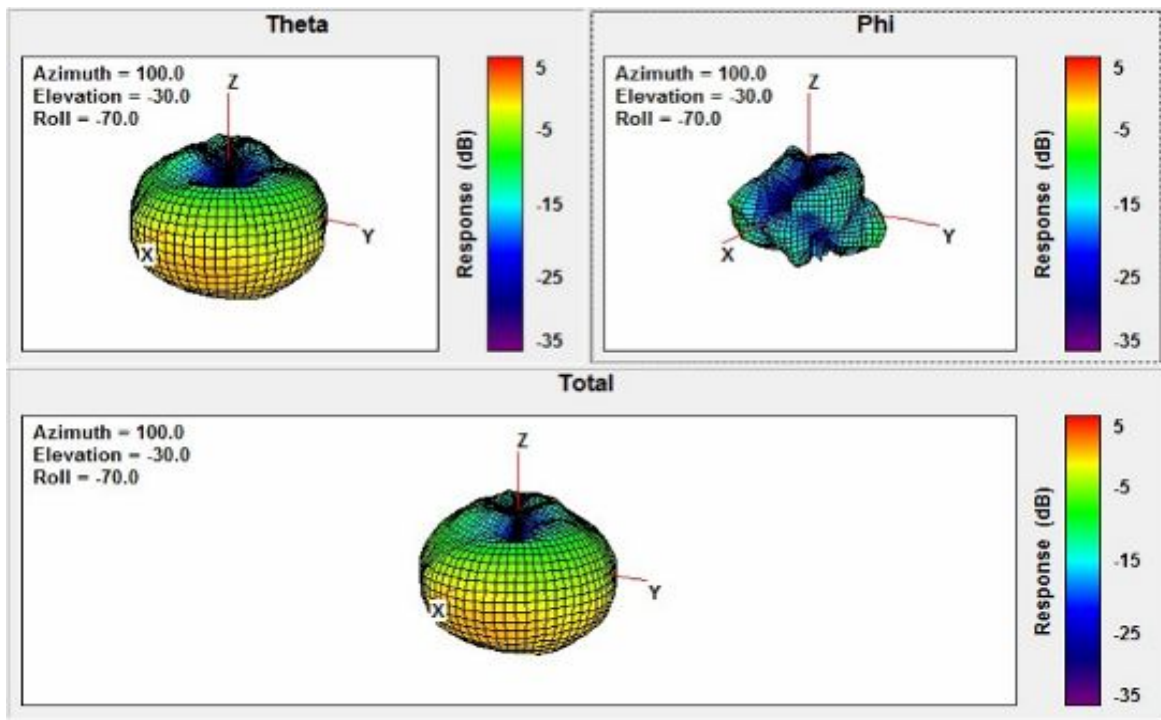
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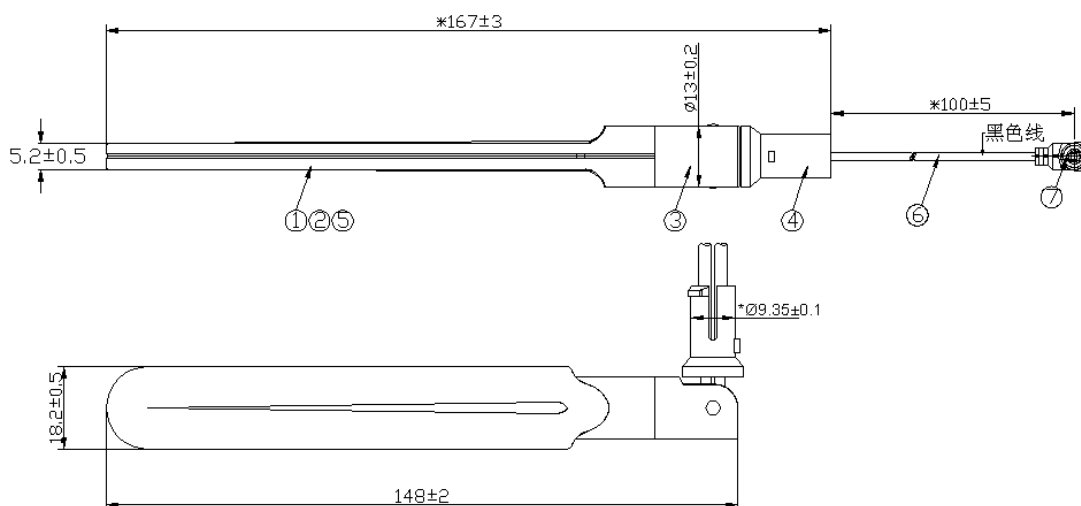
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2600MH

### 3. Mechanical properties:



Item	Parts	Dasages	Unit
1	Antenna down	1	PCS
2	Antenna up	1	PCS
3	Antenna connector	1	PCS
4	Antenna spindle	1	PCS
5	PCB	1	PCS
6	RF 1.13OD1.13 Black	0.136	M
7	1.13 IPEX 20278	1	PCS

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#### 4. Environmental Characteristics:

Test Item	Procedure	Requirement
1. Hi-Low Temperature Test	-40°C (30minutes) to 80°C (30minutes); 24 cycles	After 2 hours recovery: 1. no visible damage 2. Freq. Tol.: < ±5%
2.Damp heat Test	24hours at 85°C 90~95%RH	After 2 hours recovery: 1. no visible damage 2. Freq. Tol. : < ±5%
3. High temperature storage Test	24 hours at 90°C	After 2 hours recovery: 1. no visible damage 2. Freq. Tol. : < ±5%
4. Endurance Test	30cycles at a speed 25 ± 3mm/minutes along the mating by the push-on/pull-off machine	After 2 hours recovery: 1. no visible damage 2. Freq Tol.: < ±5%

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