


1. Specification

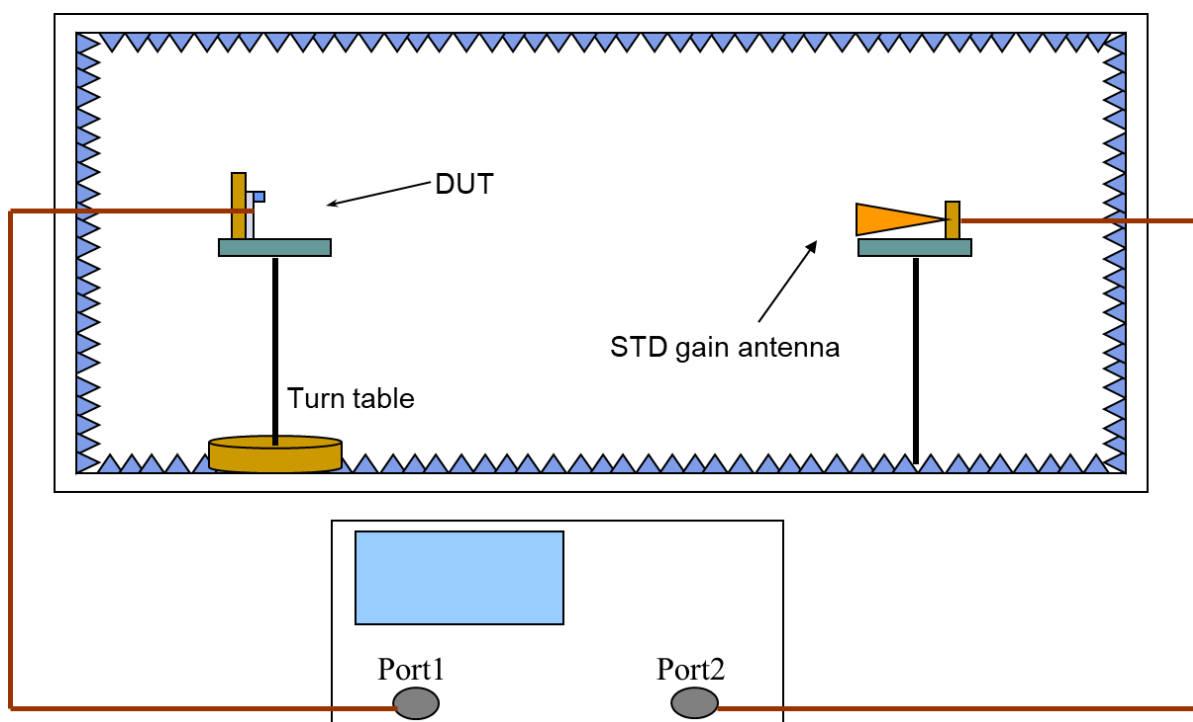
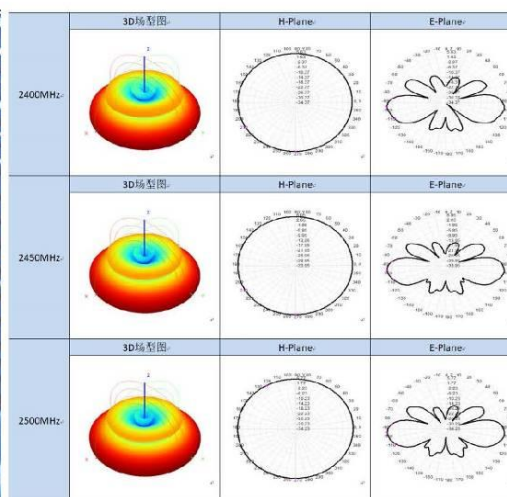
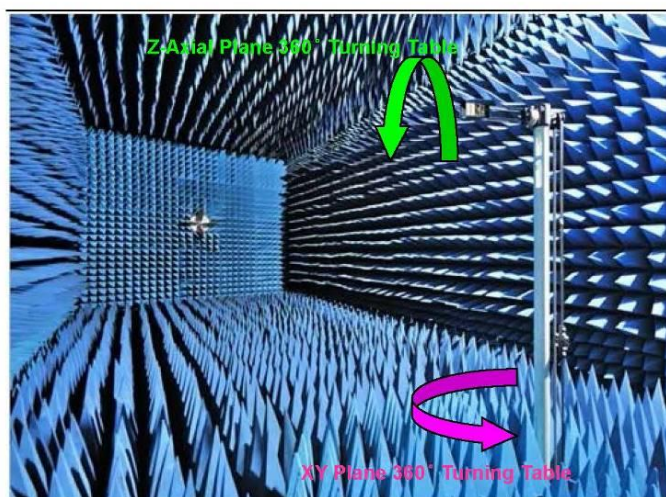
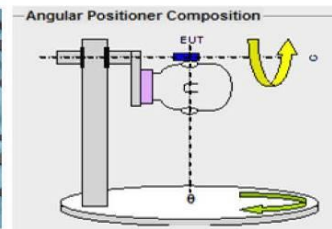
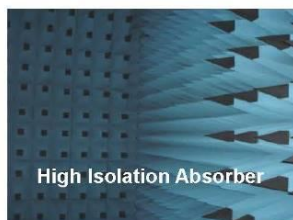
Sample Photo		
		
A. Electrical Characteristics		
Frequency	824-960MHz	1710-2700MHz
Impedance	50 Ohm	50 Ohm
S.W.R.	<2.0	<2.0
Gain	-1.4dBi	-2.2dBi
Efficiency	≈10%	≈10%
Polarization	Linear	Linear
Horizontal Beamwidth	360°	360°
Vertical Beamwidth	34-146°	24-53°
Max Power	50W	50W
B. Material & Mechanical Characteristics		
Connector Type	SMA connector	
Cable Type	RG174 Cable	
Dimension	Φ 30*225mm	
Weight	0.048Kg	
Antenna material	Carbon Steel	
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-AN4000-30225B

Product Name: Magnetic Antenna 4G

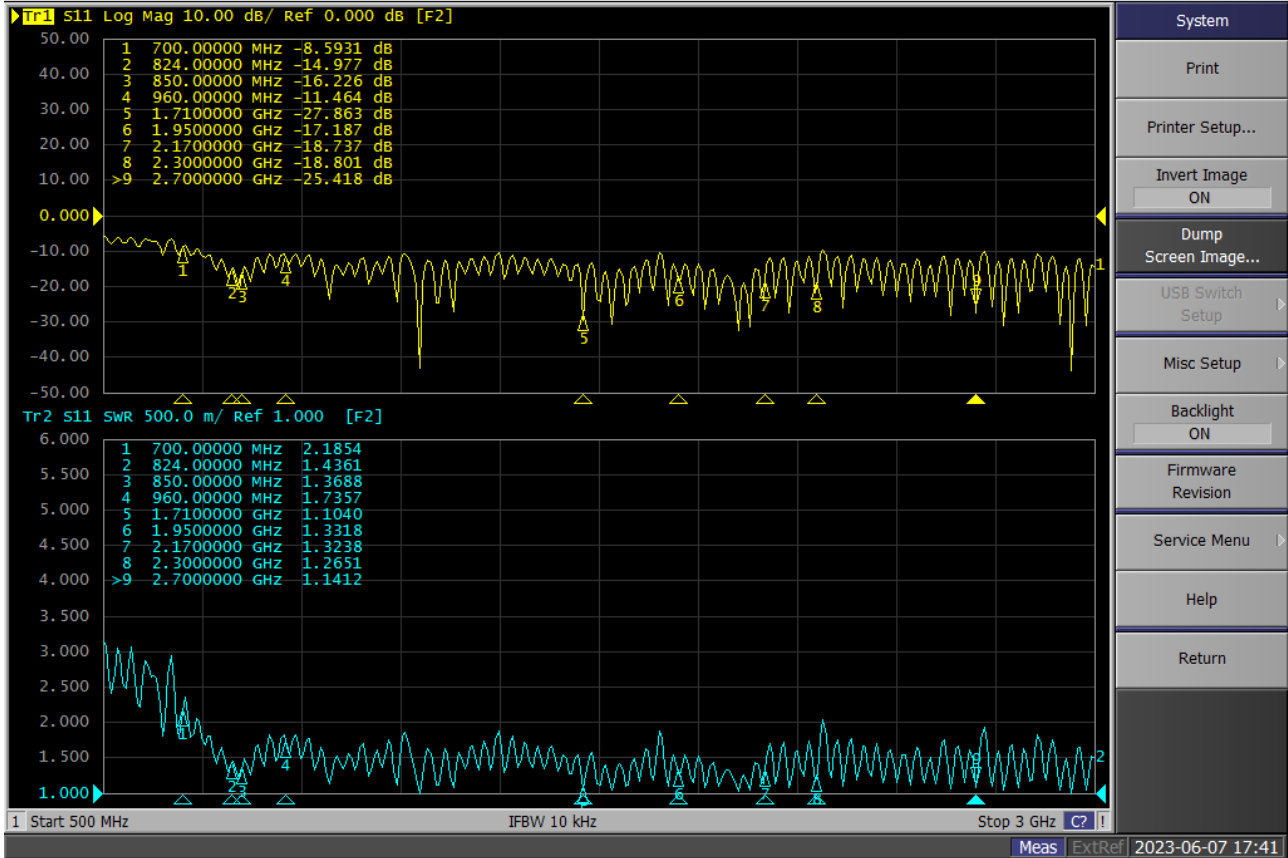
2. Antenna - S Parameter Test Data

2.1. VSWR

E5063A Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

Resize



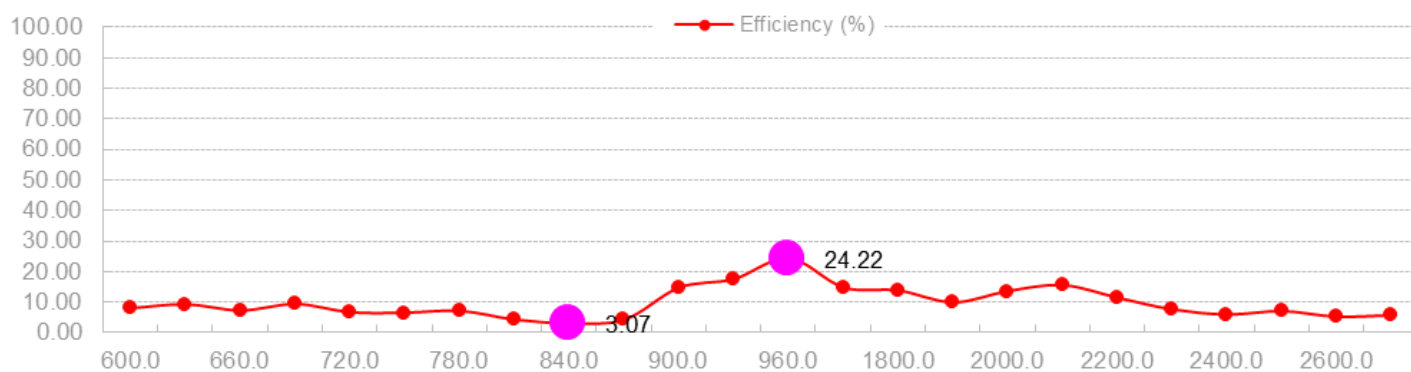


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2.2 Total Efficiency & Gain:

Frequency(MHz)	690.0	720.0	750.0	780.0	810.0	840.0	870.0	900.0	930.0	960.0
Gain (dBi)	-7.76	-9.19	-9.09	-7.15	-8.46	-9.13	-8.50	-3.44	-1.47	-2.18
Efficiency (%)	9.35	6.67	6.51	7.11	4.30	3.07	4.25	14.68	17.47	24.22

Frequency(MHz)	1700.0	1800.0	1900.0	2000.0	2100.0	2200.0	2300.0	2400.0	2500.0	2600.0	2700.0
Gain (dBi)	-4.13	-2.57	-4.53	-3.24	-2.24	-4.60	-5.37	-6.84	-5.09	-7.87	-7.97
Efficiency (%)	14.74	13.76	9.89	13.53	15.48	11.42	7.60	5.95	7.06	5.25	5.70

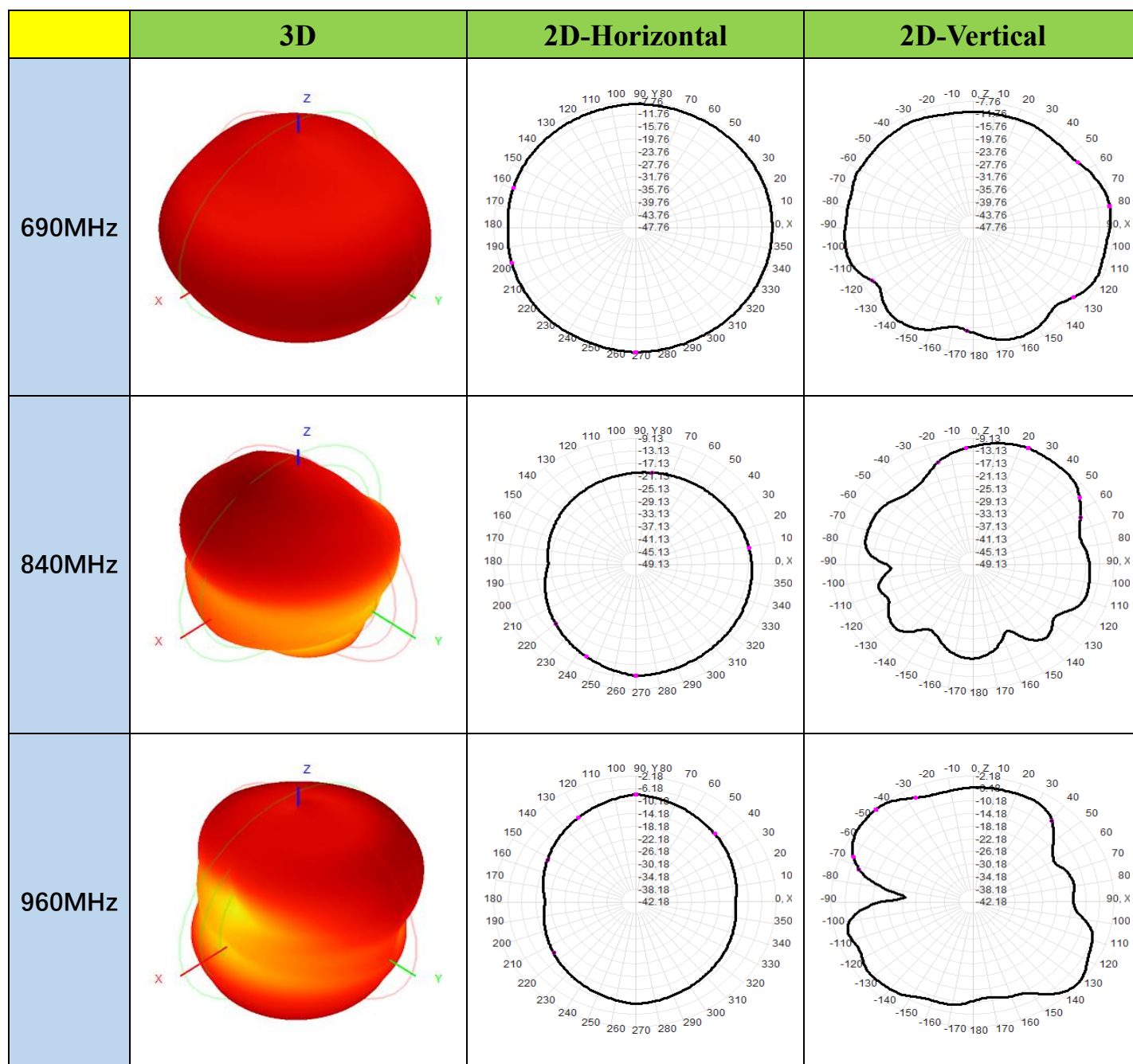




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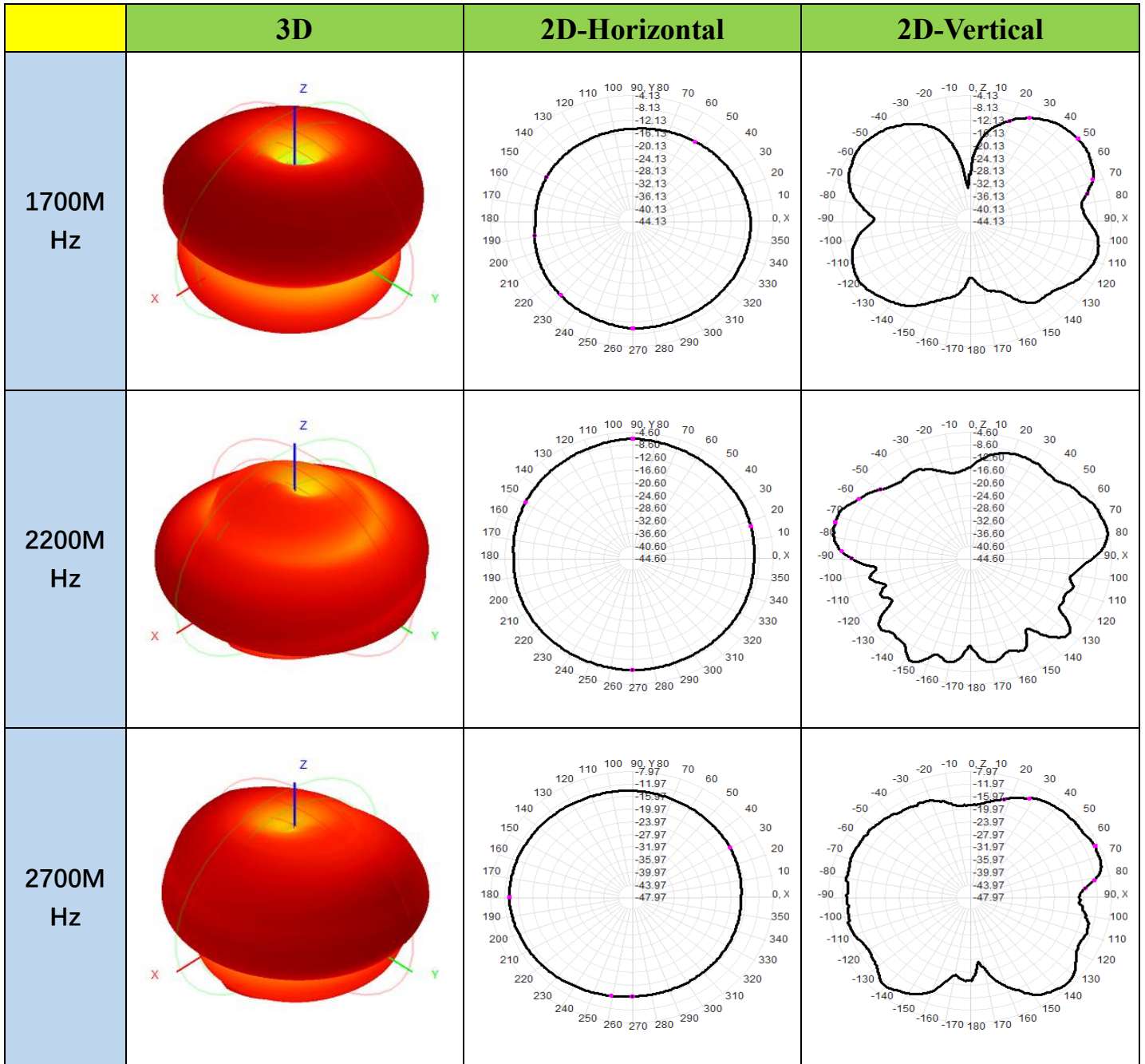
2.3 Radiation Pattern





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3. Mechanical Drawing

