

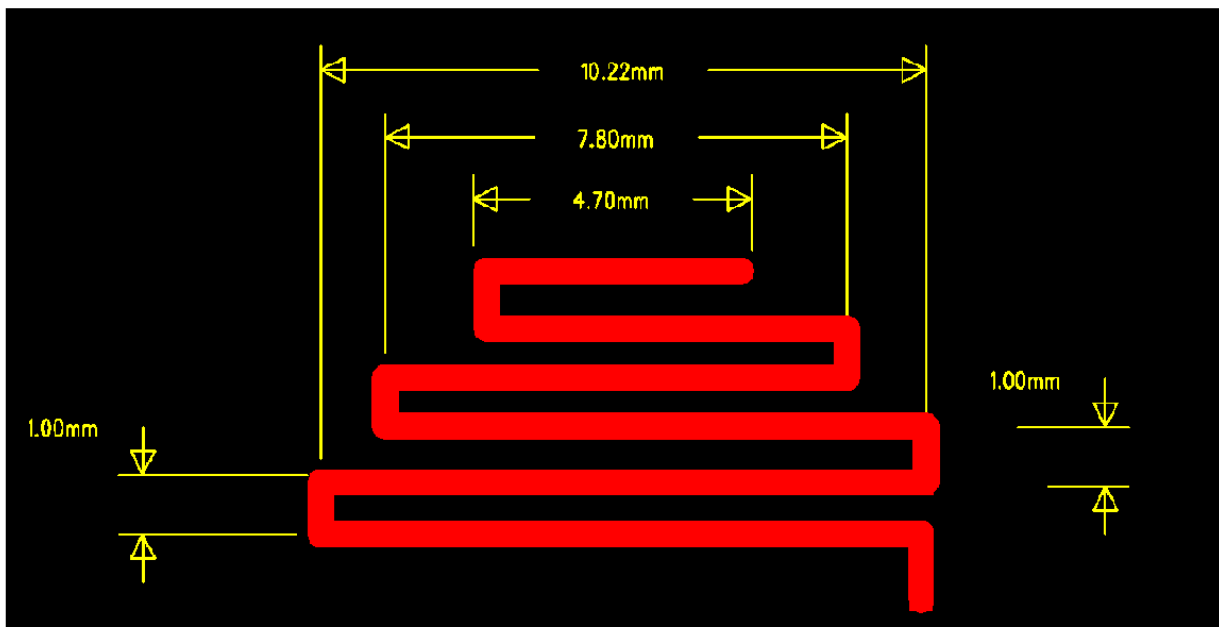
ANTENNA SPECIFICATION

Summary

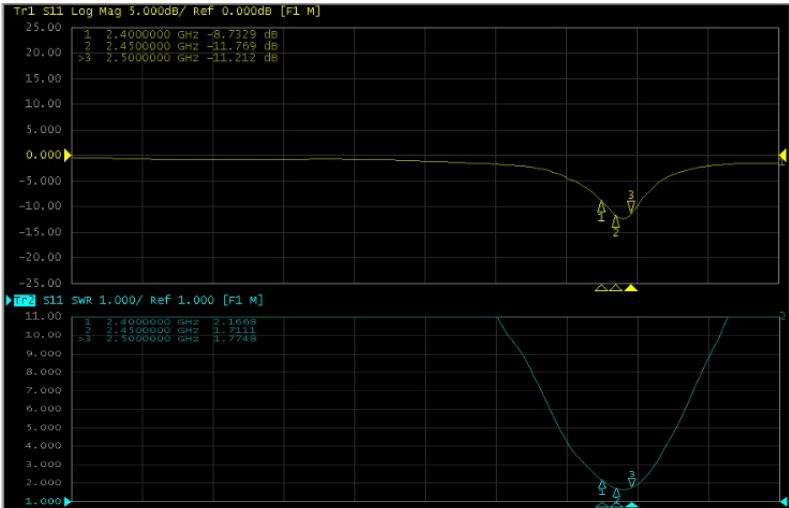
ITEM	ANT SPEC					
Model Name	2.4G ANT					
Center Frequency Gain	Horizontal			Vertical		
	2400MHz	2450MHz	2500MHz	2400MHz	2450MHz	2500MHz
	-0.21	0.44	-0.04	-2.4	-1.88	-2.15
MAX Gain	0.44					
Polarization	Horizontal and Vertical					
Azimuth Beam Pattern	Omni-directional					
Impedance	50 Ohm					
Antenna Length	27.5 mm					
Model	BQ70					

Manufacturer: Dongguan Yande Electronic Technology Co., Ltd
Address: Room 508, Building 3, No. 19 Jinpeng Road, Fenggang Town, Dongguan City, Guangdong Province, China

Antenna Photo & Length (mm)



VSWR



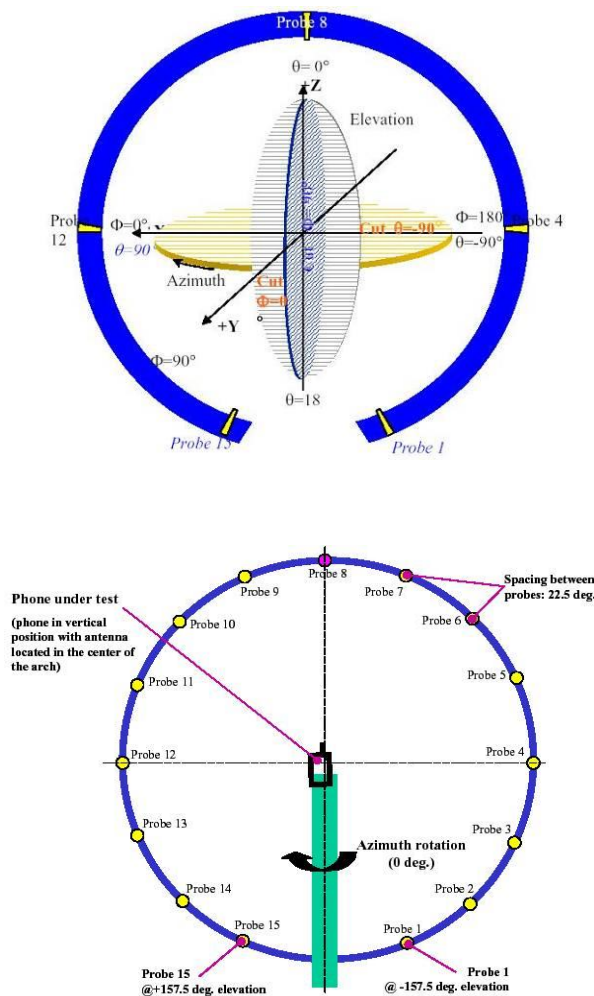
Frequency (MHz)	2400	2450	2500
Return Loss	-8.73	-11.76	-11.21
VSWR	2.16	1.71	1.77

3D Radiation Pattern:

Test environment :

Room temperature : 25°C Humidity : 40%

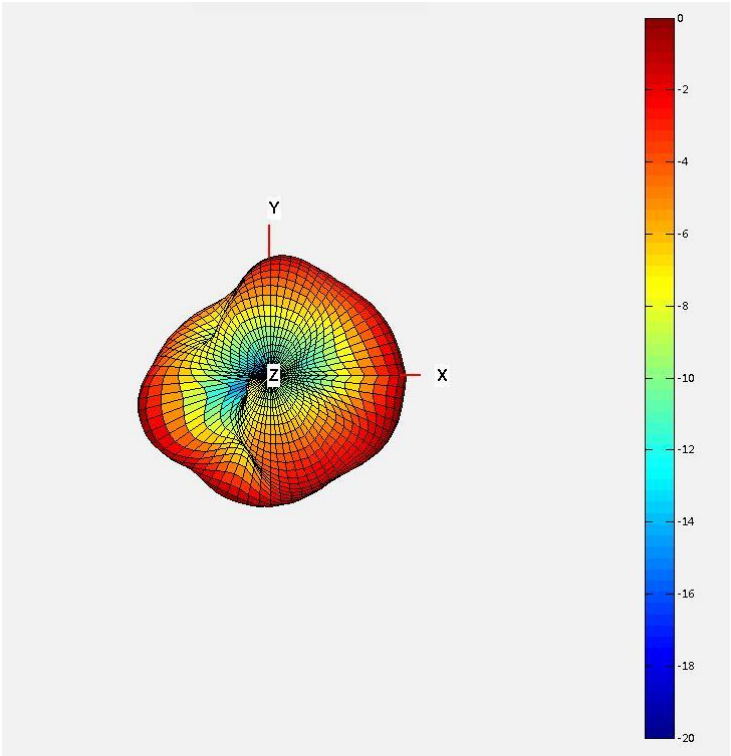
Test schematic:



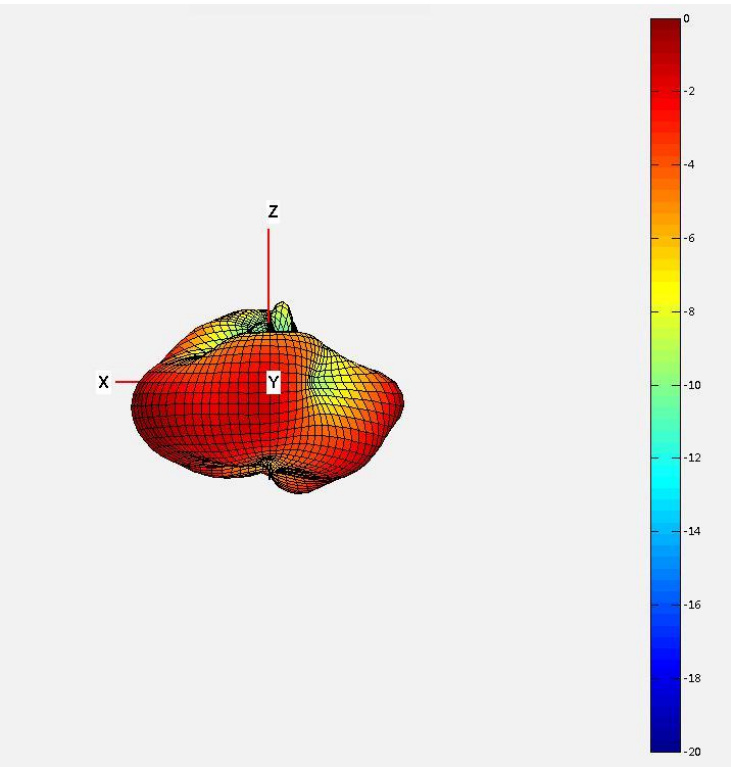
Test system and equipment

	测试项目/Test items	设备/equipment
1: S参数 S parameter	1. 回波损耗 Return loss 2. 驻波比 VSWR	网络分析仪/Network analyzer: A338/A333
2: 耦合功率测试 Active test	1. 发射功率 Transmitting power 2. 接收灵敏度 Receiving sensitivity	综合测试仪/Comprehensive test instrument: Agilent 8960/ CMW500
3: 辐射模式与增益 Radiation mode and gain	1. 辐射模式 Radiation mode 2. 天线增益 Gain	1. 暗室/Shielding room: 7x4x3 m (ETS-3D) 2. 网络分析仪/Network analyzer: HP 8753D

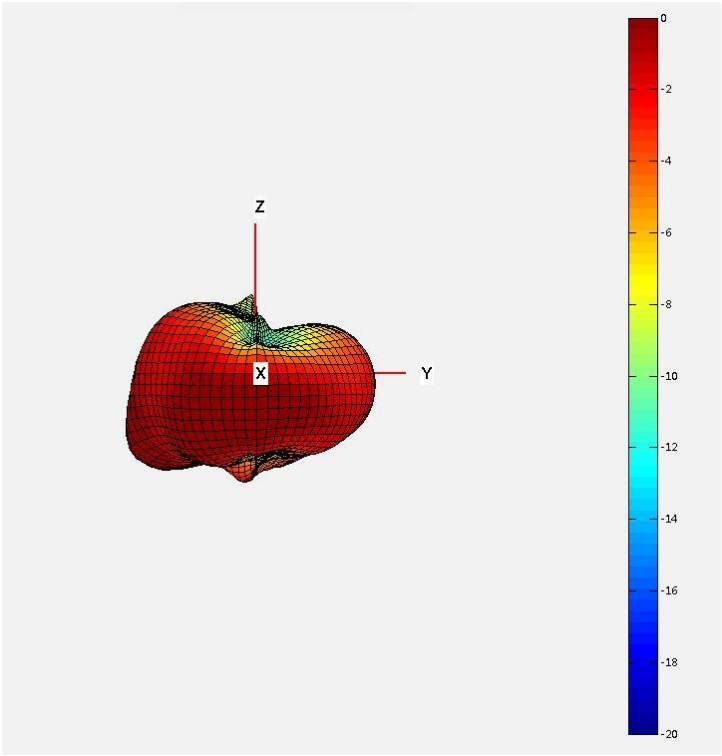
2400MHz



2450MHz



2500MHz



Passive Performance:

Frequency (MHz)	Total Gain （dBi）	Efficiency (%)
2400	-0.21	45.08
2450	0.44	46.13
2500	-0.04	35.32