

RF Antenna Assembly

Specification

1. Electrical Properties :

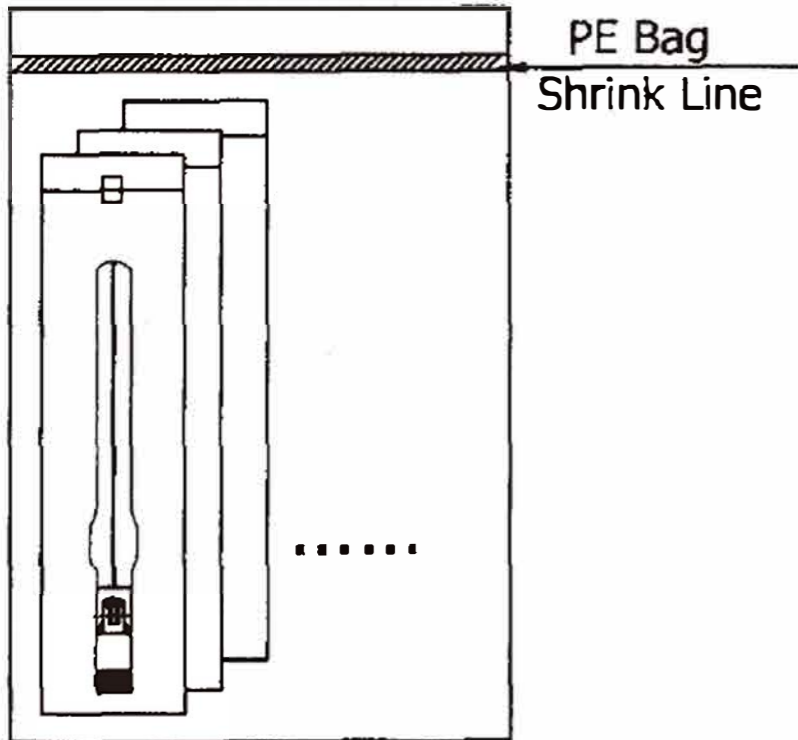
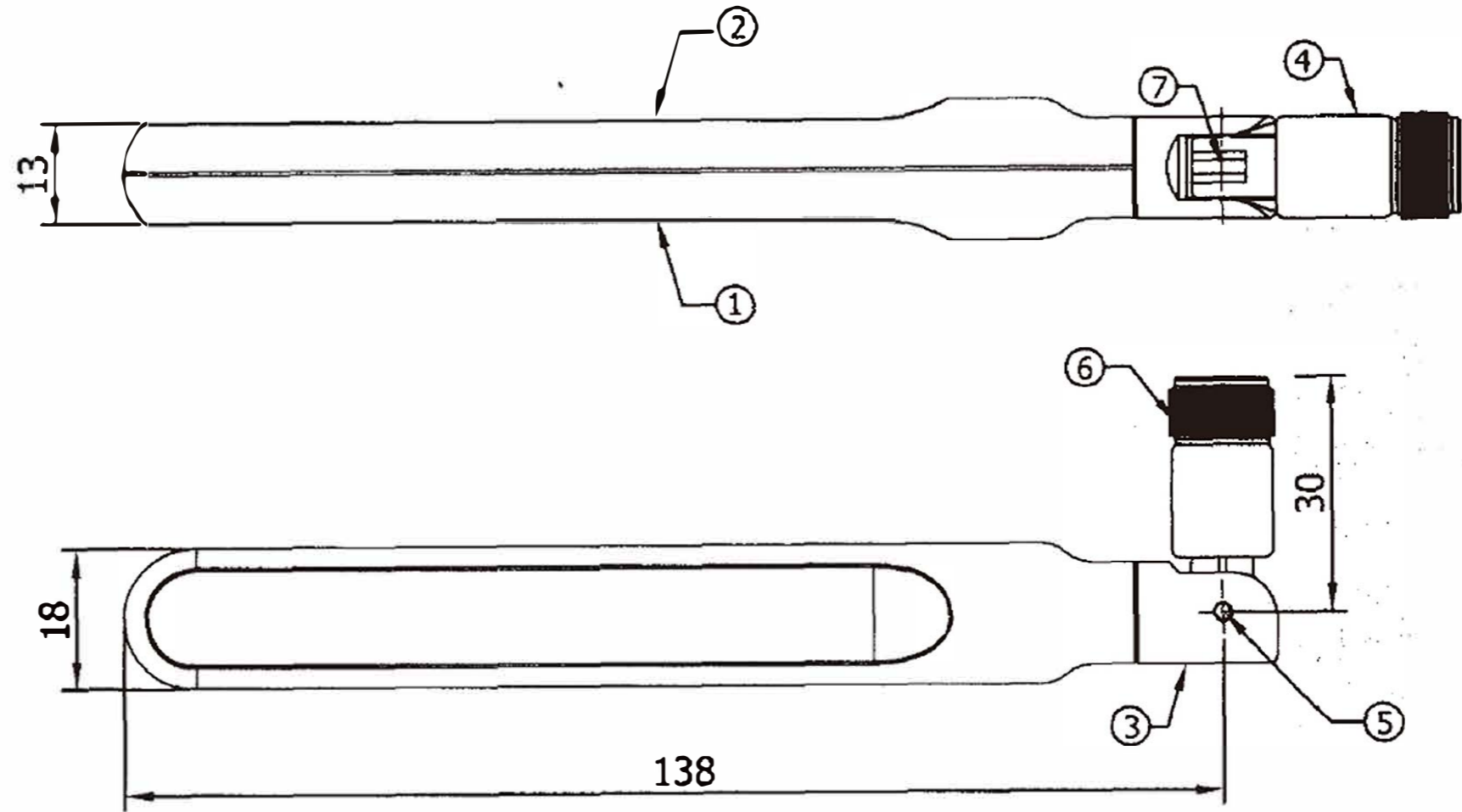
- 1.1 Frequency Range.....700MHz ~ 960MHz/1575MHz ~2170MHz/2400MHz~2700MHz
- 1.2 Impedance50Ω Nominal
- 1.3 VSWR 3.56 : 1 Max.
- 1.4 Return Loss.....-5 dB Maximum
- 1.5 Radiation Omni-directional
- 1.6 Gain(peak).....2dBi @700MHz ~ 960MHz (including cable loss)
3dBi @1575MHz ~2170MHz (including cable loss)
3dBi @2400MHz~2700MHz (including cable loss)
- 1.7 Polarization.....Linear Vertical
- 1.8 Admitted Power.....1W
- 1.9 Cable.....RG-178透明棕
- 1.10 Connector..... SMA Plug Reverse

2. Physical Properties :

- 2.1 Antenna Cap..... PC+ABS
- 2.2 Antenna Base.....PC+ABS
- 2.3 Antenna Base.....PBT
- 2.4 Operating Temp.-10°C ~ +60°C
- 2.5 Storage Temp. -10°C ~ +70°C
- 2.6 ColorBlack



Packing:1pcs/bag

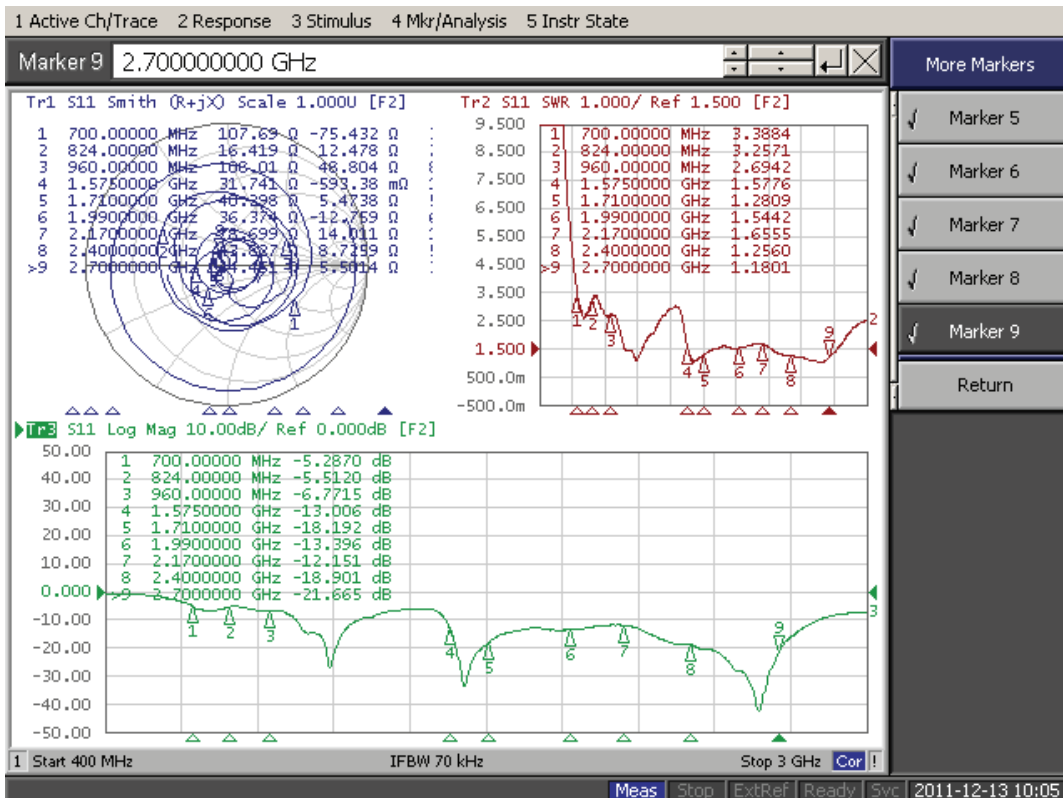
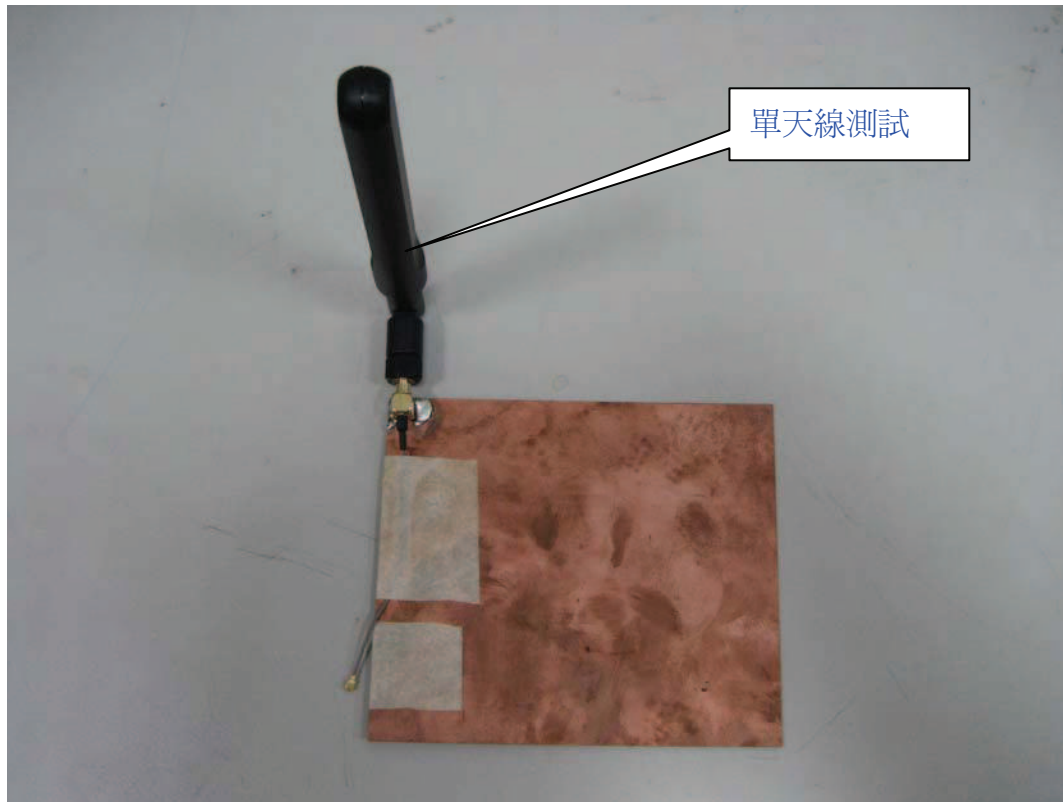


Packing:10pcs/bag

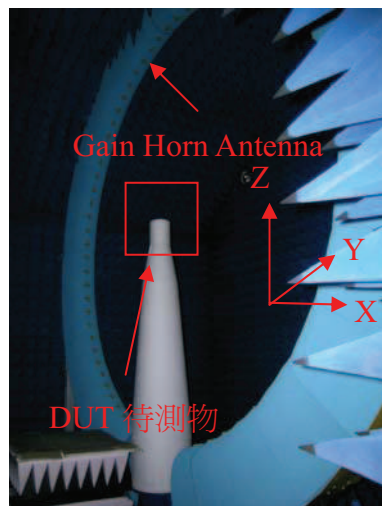
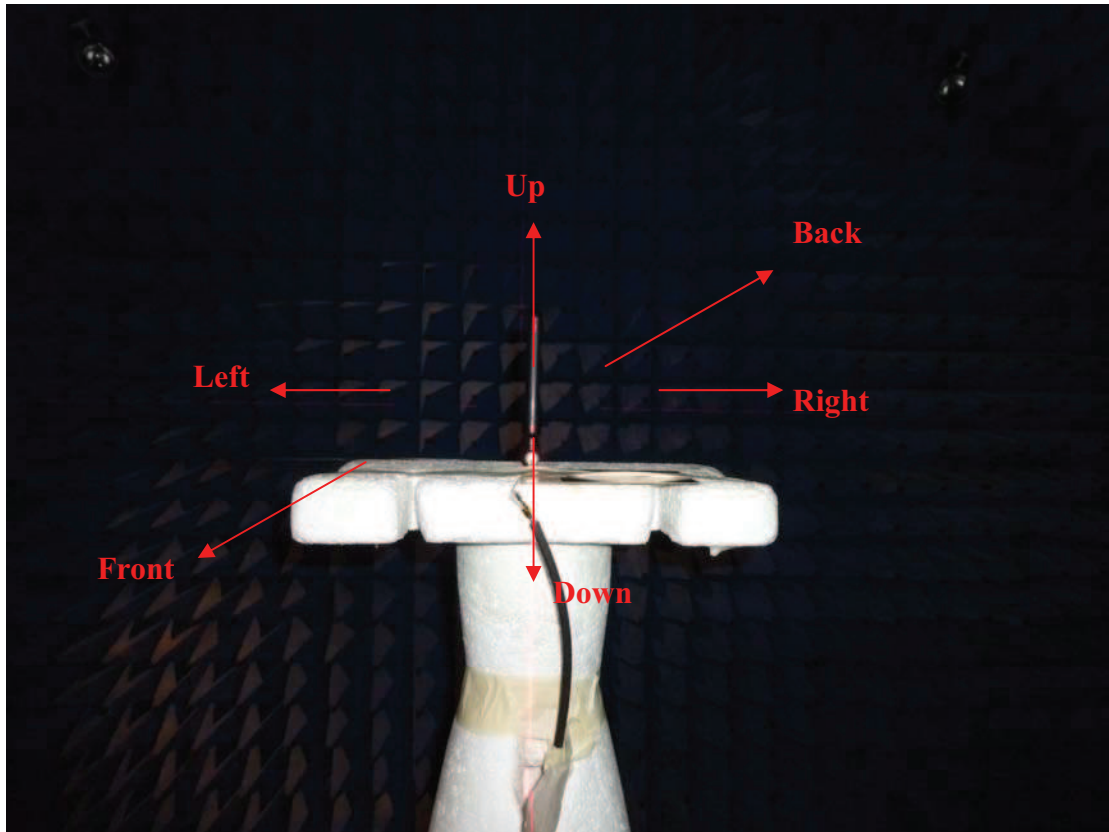
7	Cable	RG-178 Cable	1	
6	Connector	SMA Straight Plug Reverse	1	
5	Rivet	POM,Black C	2	
4	Antenna Base	PBT 310-SE0;Color:Black C	1	
3	Antenna Base	PC+ABS;Color:Black C	1	
2	Antenna Housing(R)	PC+ABS;Color:Black C	1	
1	Antenna Housing(L)	PC+ABS;Color:Black C	1	
NO	DESCRIPTION		QTY	REMARK

一、 Return Loss & VSWR

測試線焊接示意圖

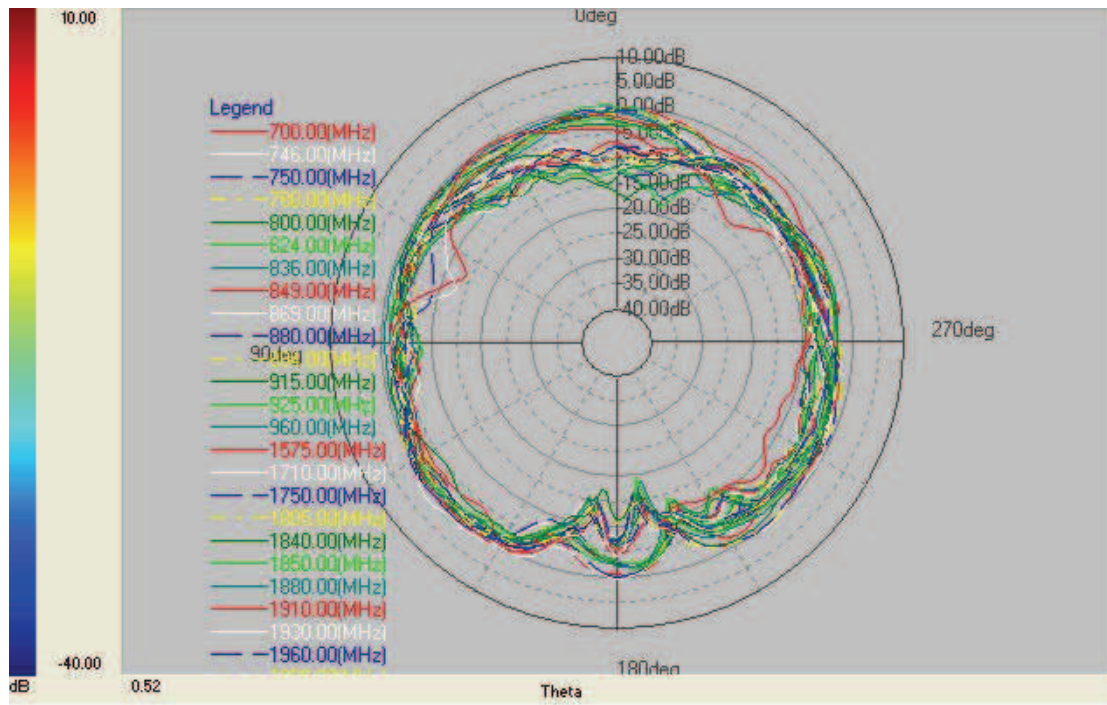


二、 Radiation Pattern Measurement

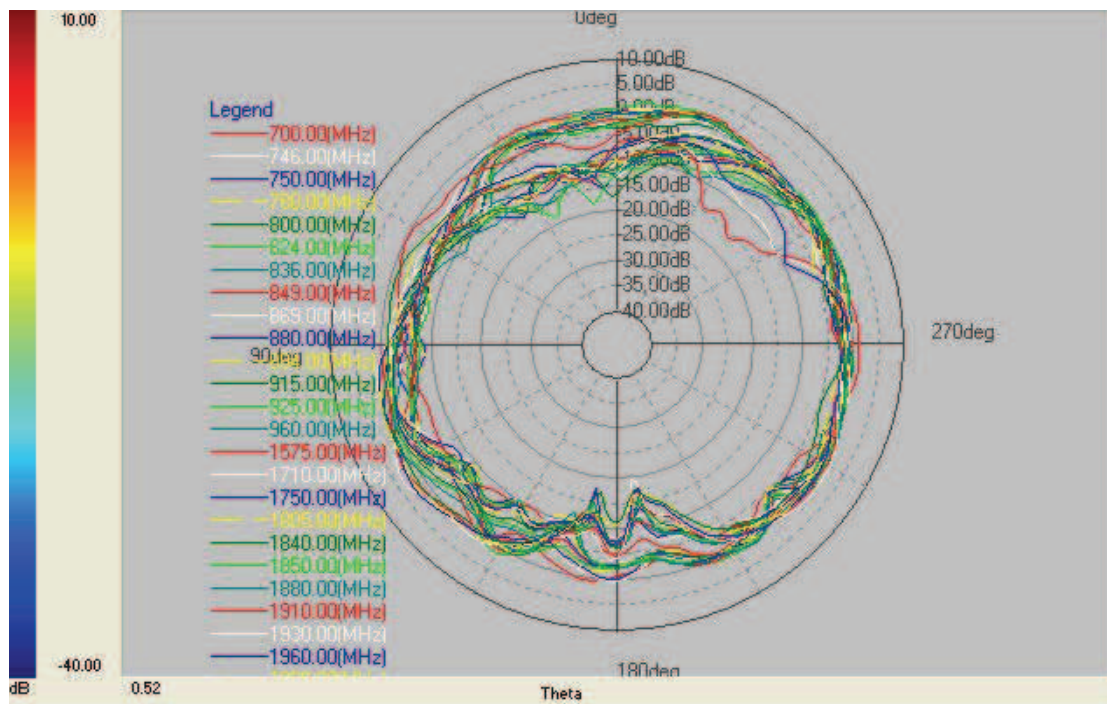


	XY	YZ	XZ
0°	Right	Up	Up
90°	Back	Back	Right
180°	Left	Down	Down
270°	Front	Front	Left

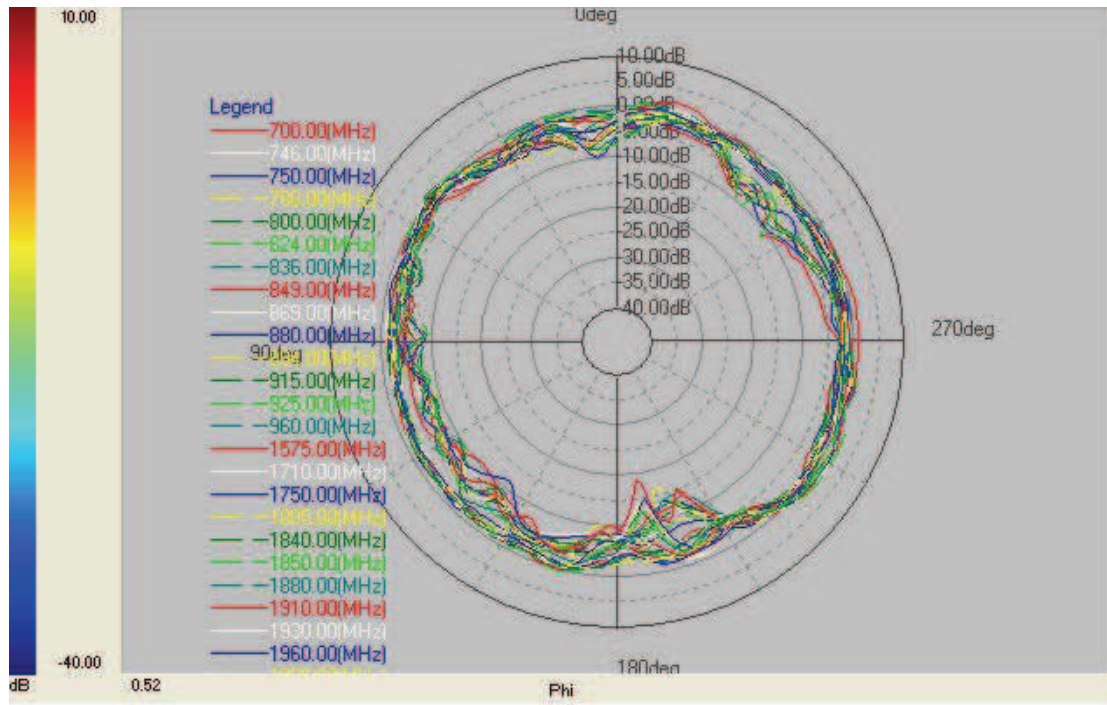
X-Z Plane (E-total)



Y-Z Plane (E-total)



X-Y Plane (E-total)



三、Test Value

1-1 Return Loss

mark	S11
700 MHz	-5.29
824 MHz	-5.51
960 MHz	-6.77
1575 MHz	-13.01
1710MHz	-18.19
1990 MHz	-13.40
2170MHz	-12.15
2400 MHz	-18.90
2700MHz	-21.67

1-2 Peak Gain

	Gain (dBi)	Efficiency (%)
700MHz	2.27	56.49
746MHz	2.35	52.53
750MHz	2.17	45.05
780MHz	1.73	45.03
800MHz	2.19	44.10
824MHz	2.45	54.78
836MHz	2.50	43.89
849MHz	2.96	47.70
869MHz	2.41	46.19
880MHz	2.94	51.13
894MHz	2.62	50.80
915MHz	2.98	51.94
925MHz	2.51	49.54
960MHz	2.74	56.04
1575MHz	3.08	51.92
1710MHz	3.14	54.28
1750MHz	2.95	51.02
1805MHz	2.90	50.52
1840MHz	2.97	51.57
1850MHz	2.98	52.77
1880MHz	2.94	53.90
1910MHz	3.06	55.42

1930MHz	2.69	54.74
1960MHz	2.94	57.27
1990MHz	2.80	57.65
2110MHz	3.07	59.42
2140MHz	3.11	60.77
2170MHz	3.01	63.57
2400MHz	3.09	60.31
2450MHz	3.04	67.06
2500MHz	2.91	61.89
2600MHz	2.93	64.74
2700MHz	1.99	60.65