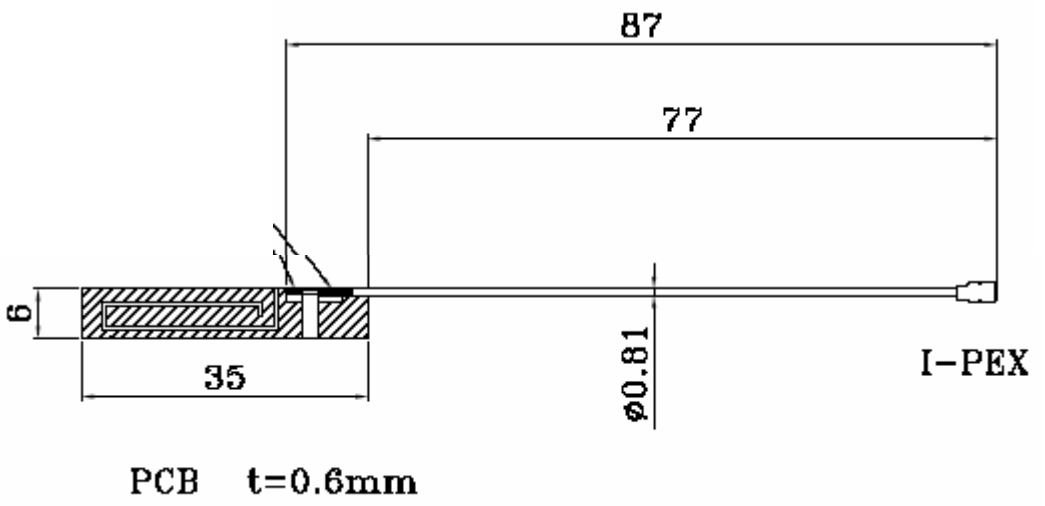
R16-FL PCB GSM ANTENNA



■ ELECTRICAL SPECIFICATION

1. ANTENNA TYPE	: Monopole Antenna(PCB)	6. ADMITTED POWER RADIATION	: 3W
2. FREQENCY RANGE	: 800MHz/900MHz /1800MHz/1900MHz/2100MHz ø0.81(87mm) + I-PEX	7. TYPE OF RADIATION	: Omni
3. IMPENDANCE	: 50 Ohms	8. POLARIZATION	: Vertical
4. GAIN	: 0 dBi	9. ELECTRICAL LENGTH	: 1/4 λ
5. VSWR	: ≦ 2.0	10. STANDARD CONNECTOR	: I-PEX

■ MECHANICAL SPECIFICATION

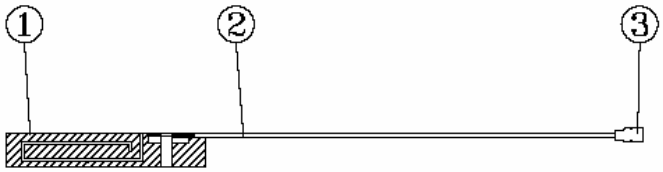
1. MECHANISM

	Description	Material	Treatment
①	PCB	FR4	———
②	Coaxial Cable	Teflon insulator	Light Gray
③	Connector (I-PEX)	Brass	Golden

2. TEMPERATURE

Operation Temperature : -20°c~+65°c

Storage Temperature : -30°c~+75°c



■ VSWR

Band \ Freq.(MHz)	860MHz
800MHz	1.80

Band \ Freq.(MHz)	925MHz
900MHz	1.59

■ VSWR

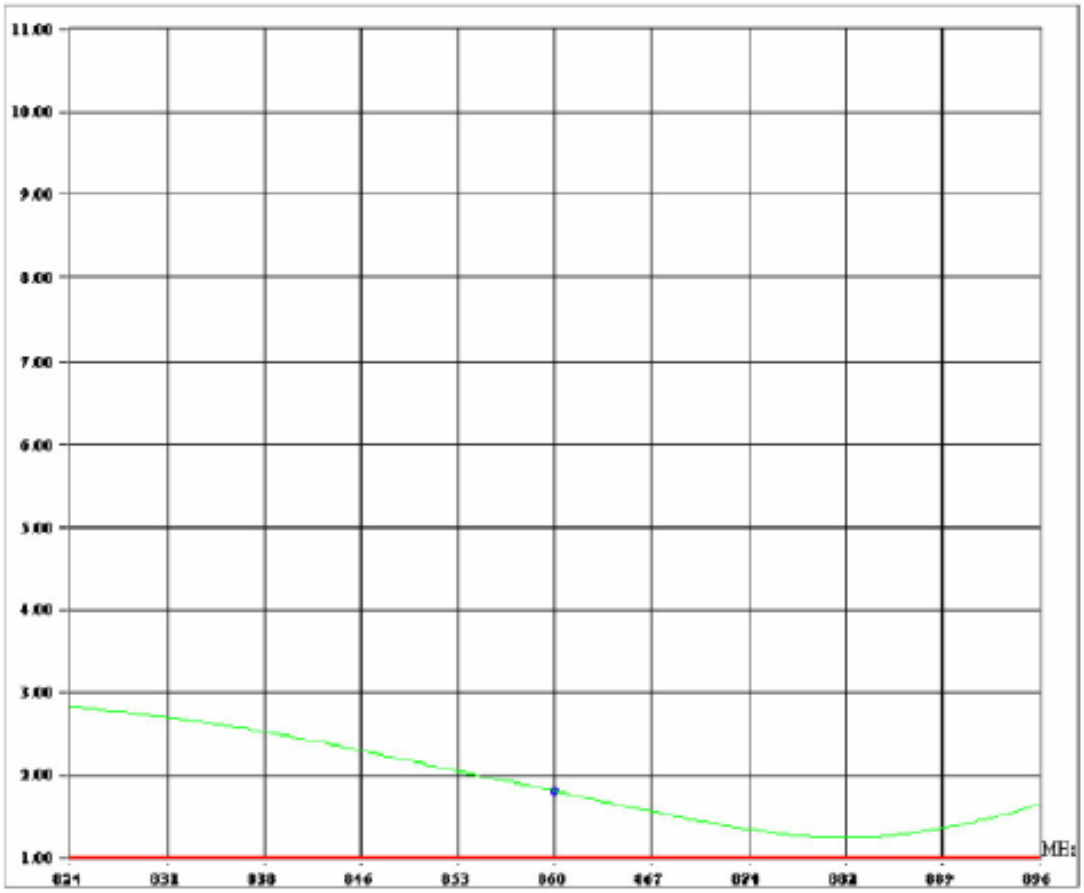
Band \ Freq.(MHz)	1800MHz
1800MHz	1.80

Band \ Freq.(MHz)	1900MHz
1900MHz	1.81

■ VSWR

Band \ Freq.(MHz)	2100MHz
2100MHz	1.76

VSWR Measurement



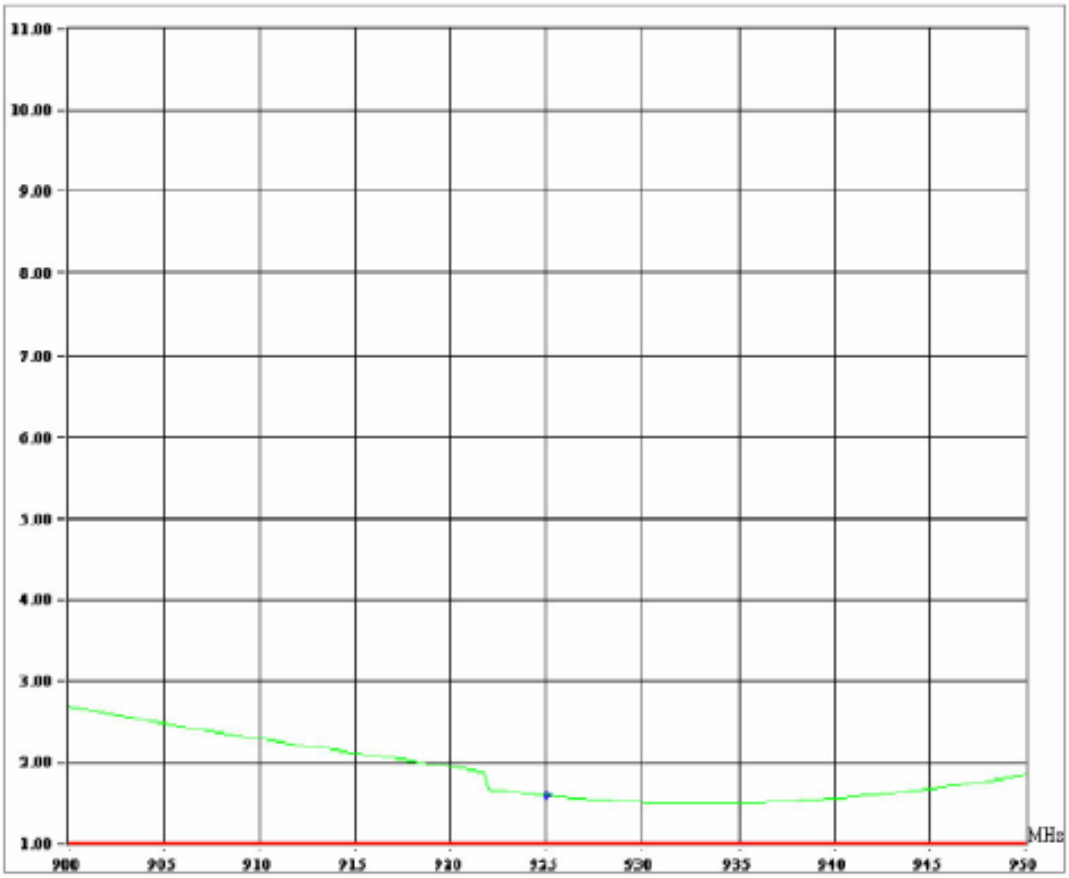
	Freq(MHz)	VSWR(U)
1	860.00	1.80

Test Mode: 800MHz

Test date: 2006/12/13

at PM 05:38

VSWR Measurement



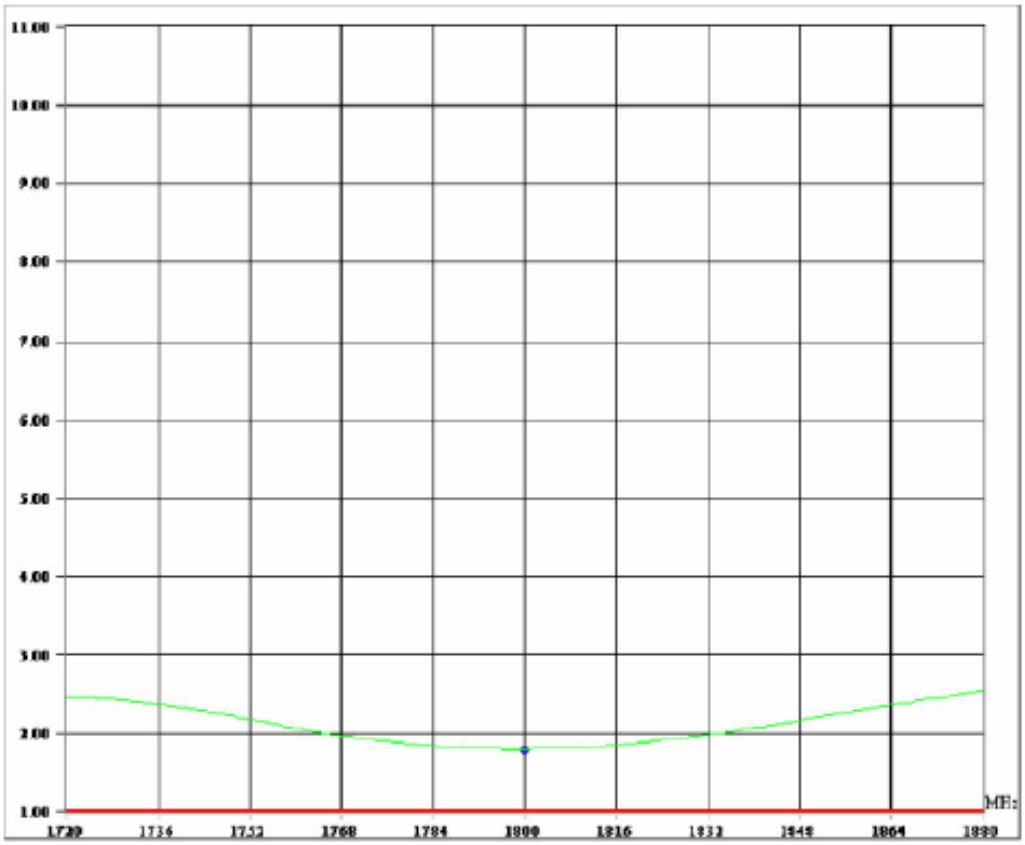
	Freq(MHz)	VSWR(U)
1	925.00	1.59

Test Mode: 900MHz

Test date: 2006/12/13

at PM 05:40

VSWR Measurement



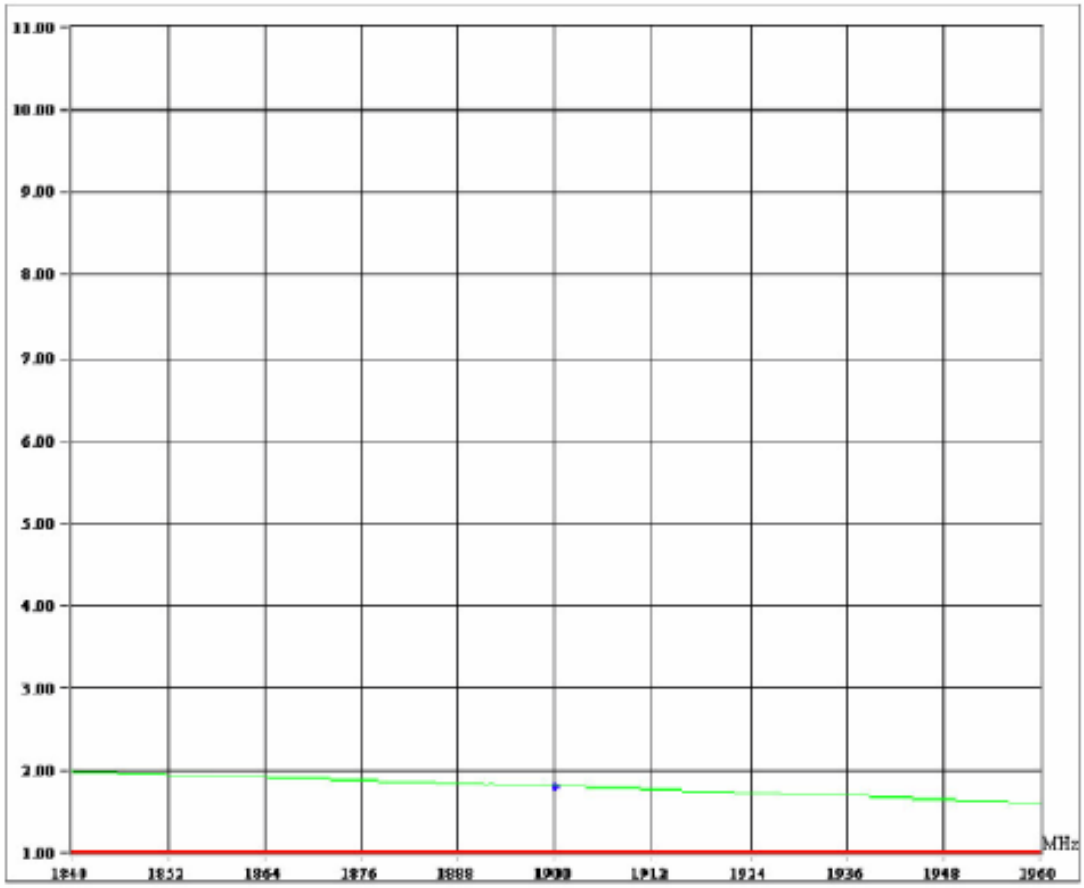
	Freq(MHz)	VSWR(U)
1	1800.00	1.80

Test Mode: 1800MHz

Test date: 2006/12/14

at AM 09:35

VSWR Measurement



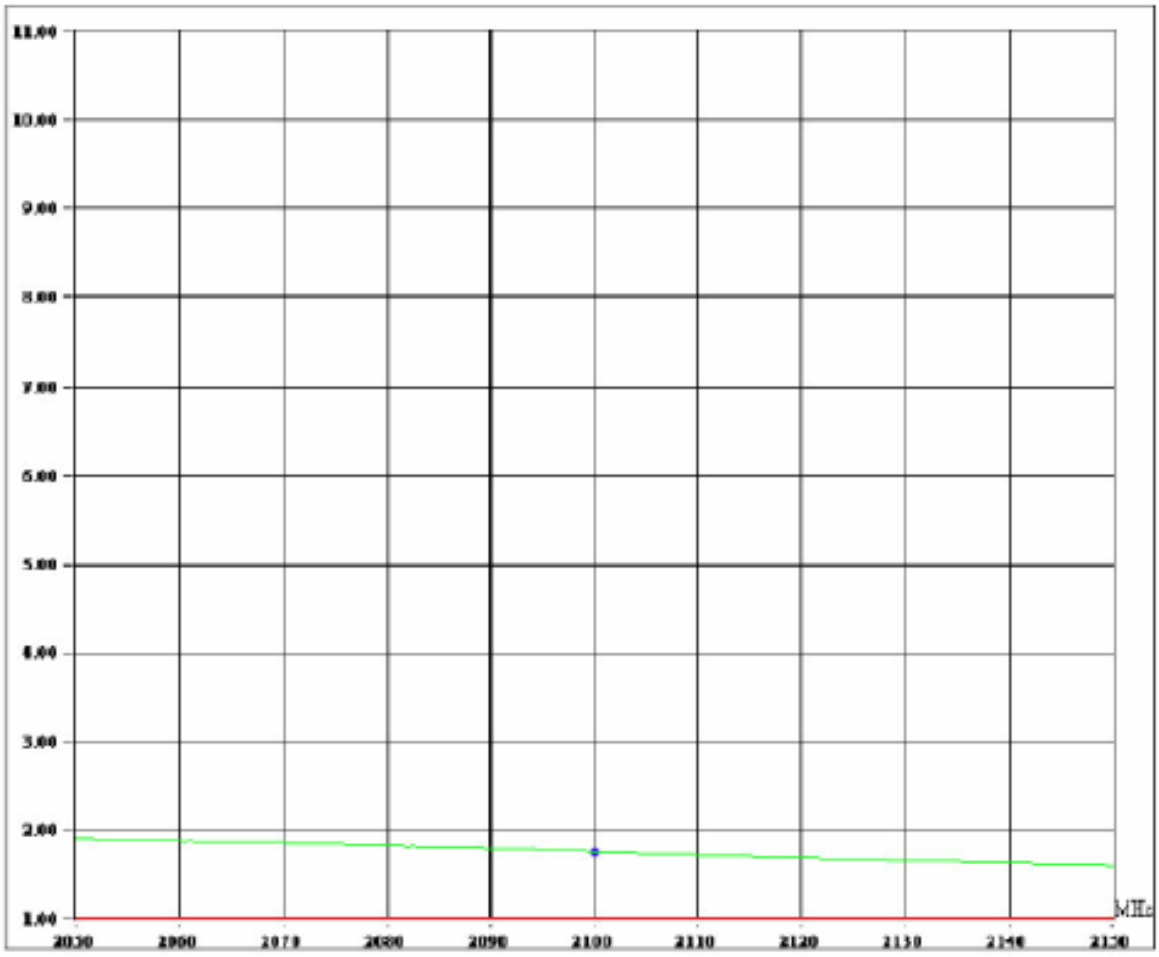
	Freq(MHz)	VSWR(U)
1	1900.00	1.81

Test Mode: 1900MHz

Test date: 2006/12/14

at AM 09:37

VSWR Measurement



	Freq(MHz)	VSWR(U)
1	2100.00	1.76

Test Mode: 2100MHz

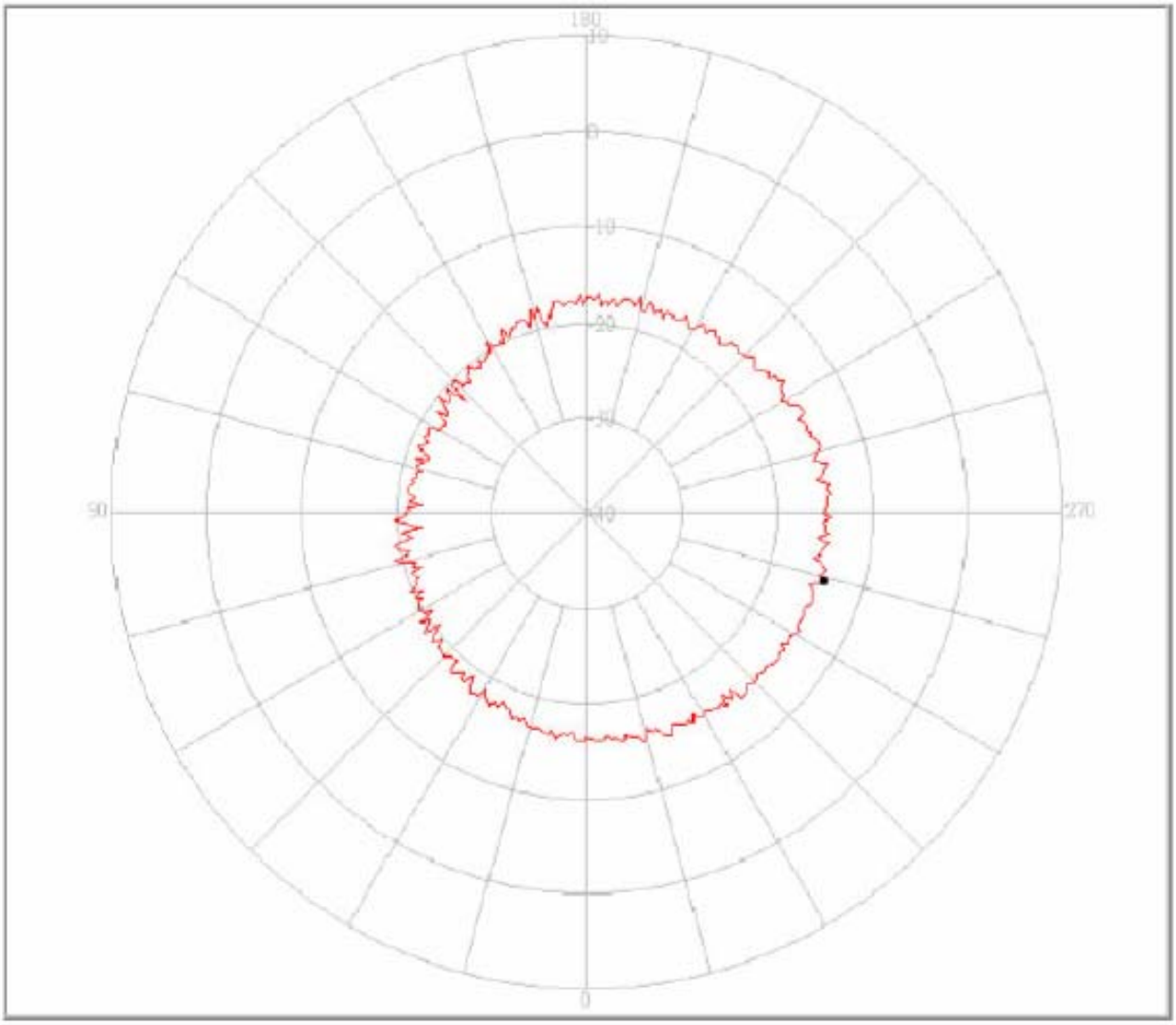
Test date: 2006/12/14

at AM 09:40

Pattern

(1) Polar : H-plane
Freg.(MHz) : 860
Peak Gain (dBi) : -14.16
Peak angle : 286.00
Avg. Gain(dBi) : -17.15

Antenna Pattern & EIRP Measurement

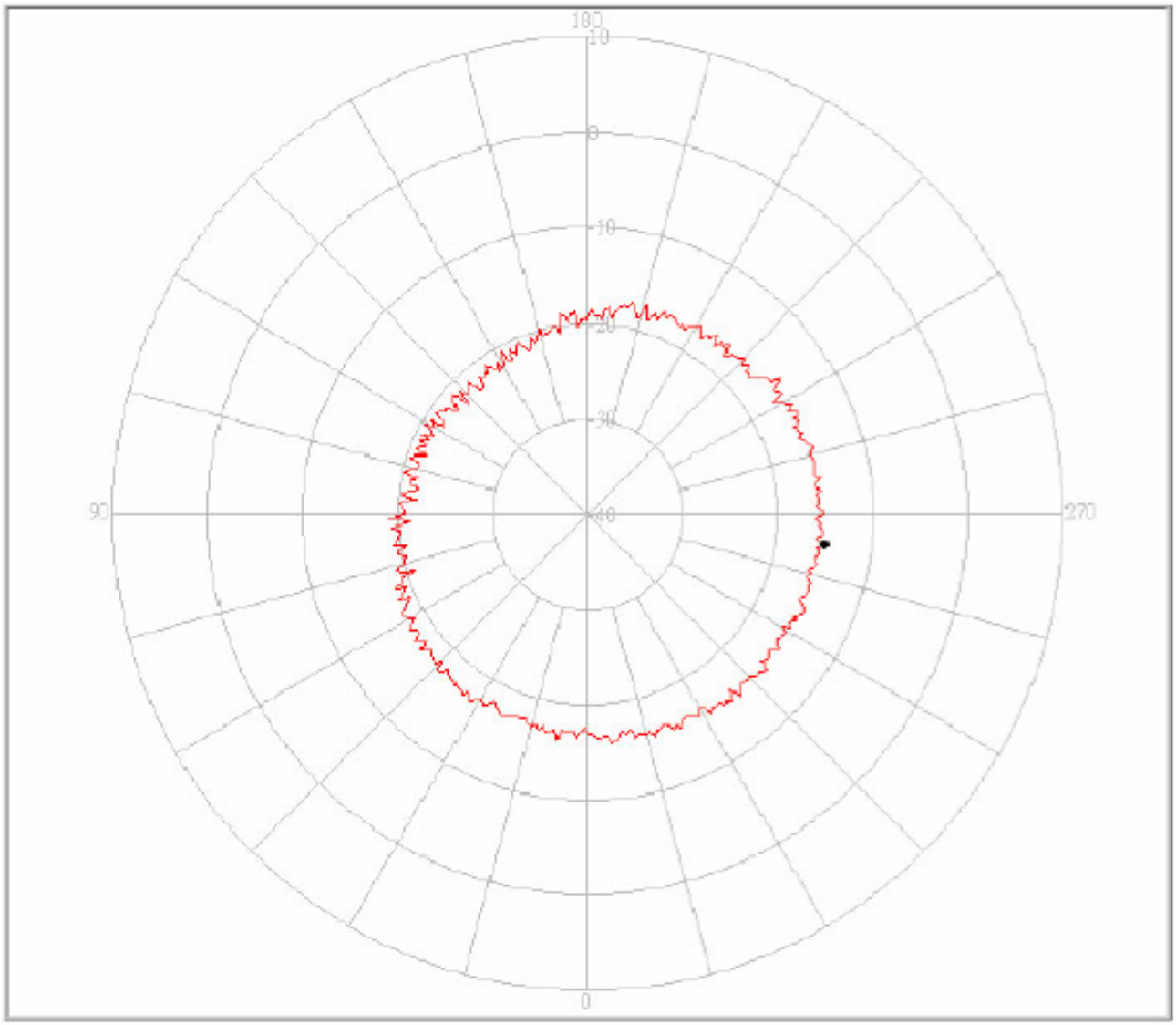


Pattern	Model No.	Test Mode	Freq(MHz)	Peak Gain(dBi)	Peak angle	Avg. Gain(dBi)	Source Polar.	Date
1		800MHz	860.00	-14.16	286.00	-17.15	Ver.	2006/12/13

■ Pattern

(1) Polar : H-plane
Freg.(MHz) : 925
Peak Gain (dBi) : -14.94
Peak angle : 277.00
Avg. Gain(dBi) : -17.54

Antenna Pattern & EIRP Measurement

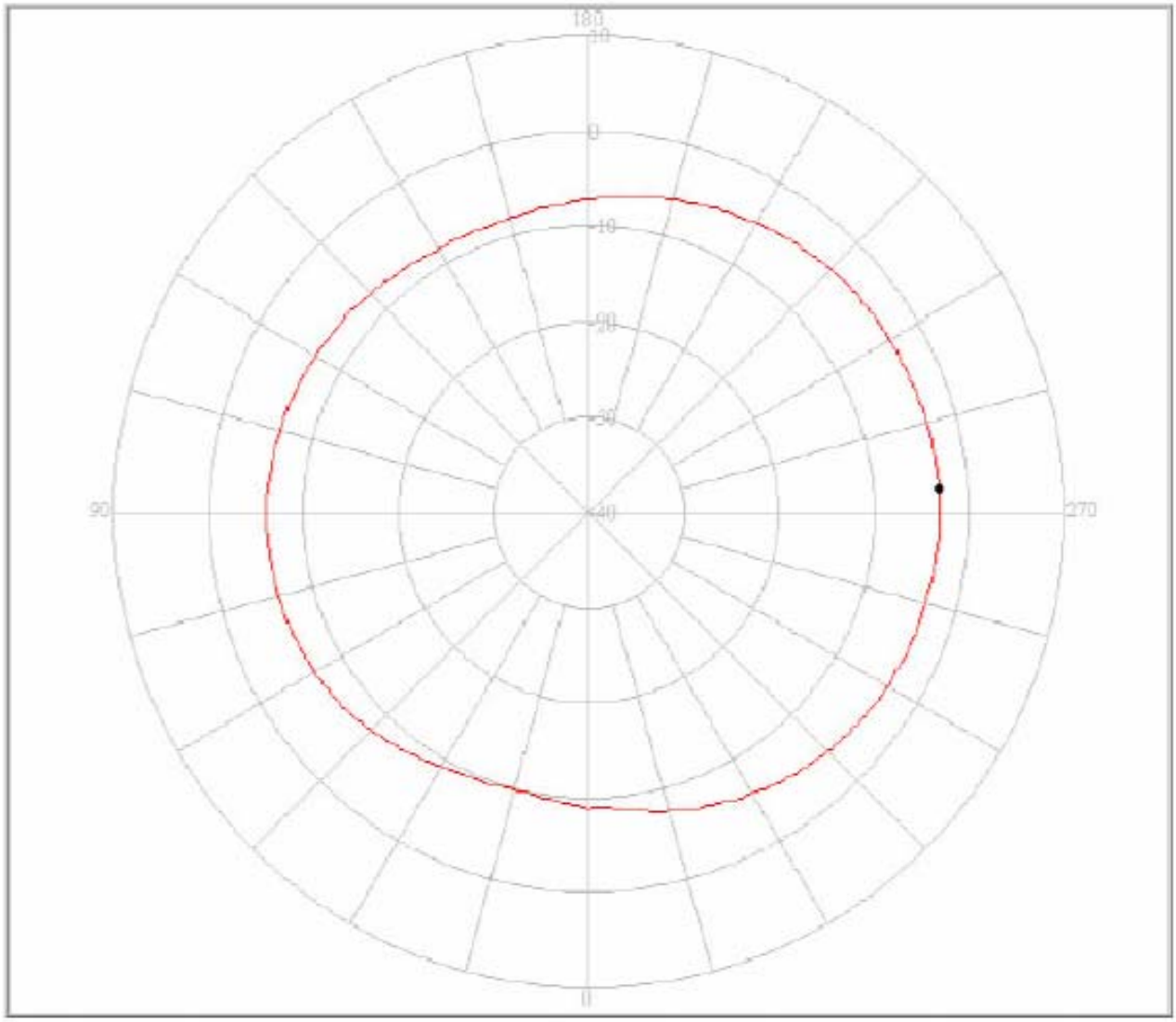


Pattern	Model No.	Test Mode	Freq(MHz)	Peak Gain(dBi)	Peak angle	Avg. Gain(dBi)	Source Polar.	Date
1		900MHz	925.00	-14.94	277.00	-17.54	Ver.	2006/12/13

■ Pattern

(1) Polar : H-plane
Freg.(MHz) : 1800
Peak Gain (dBi) : -3.09
Peak angle : 266.00
Avg. Gain(dBi) : -5.76

Antenna Pattern & EIRP Measurement

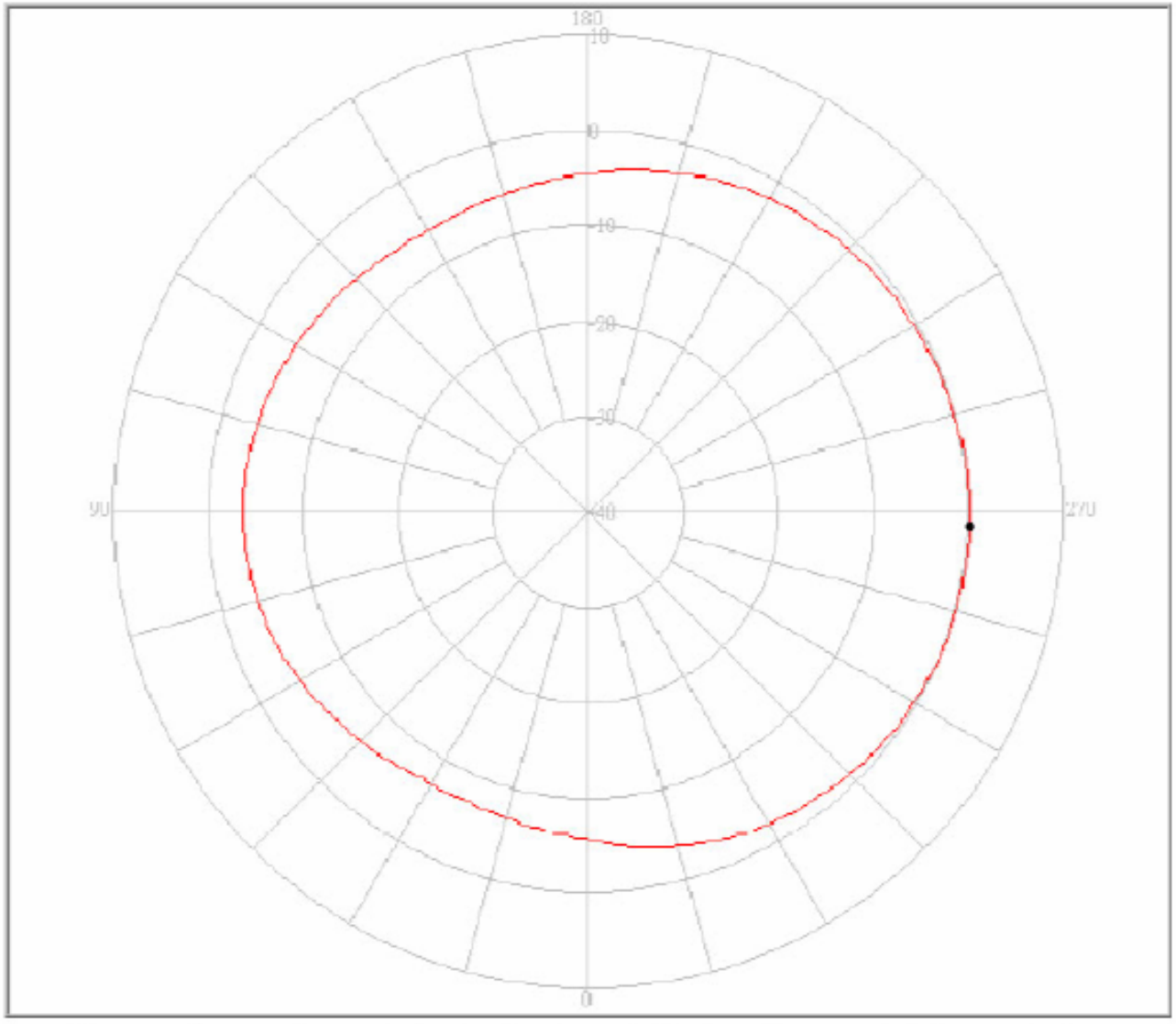


Pattern	Model No.	Test Mode	Freq(MHz)	Peak Gain(dBi)	Peak angle	Avg. Gain(dBi)	Source Polar.	Date
1		1800MHz	1800.00	-3.09	266.00	-5.76	Ver.	2006/12/13

Pattern

(1) Polar : H-plane
Freg.(MHz) : 1900
Peak Gain (dBi) : 0.13
Peak angle : 272.00
Avg. Gain(dBi) : -2.83

Antenna Pattern & EIRP Measurement



Pattern	Model No.	Test Mode	Freq(MHz)	Peak Gain(dBi)	Peak angle	Avg. Gain(dBi)	Source Polar.	Date
1		1900MHz	1900.00	0.13	272.00	-2.83	Ver.	2006/12/13