



上海增信电子有限公司
Signal Plus Technology Co., Ltd.

规格承认书
SPECIFICATION FOR APPROVAL

日期
DATE: 2025.09.12

版本
REV.: A

客 户
CUSTOMER: Sercomm Corporation

客 户 料 号
CUSTOMER P/N:

品 名
PART NAME: Outdoor Antenna 3300-3800MHz 12dBi RG141=75mm white Cable1 with
Nex10*4 For Quadbridge

供 方 料 号
SUPPLIER P/N: 6124F00130

送样日期Date: 送样数量Q'TY: Pcs

客户确认CUSTOMER APPROVED BY		
核准 Approved by	审核 Checked by	确认 Confirmed by

供方确认SUPPLIER SIGNATURE		
核准 Approved by	审核 Checked by	拟制 Prepared by
Andy		Cindy

ZX-QT-RD-0011-A1

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Product Name	Panel Antenna		
Product Model	6124F00130		
Company	Signal Plus Technology co., Ltd		
Company Address	Room 605, Building 30, No.69, Guiqing Road, Shanghai, China		
Sample Receipt Date	June 22, 2025	Testing Date	June 22, 2025
Testing Environment	Temperature : 20~24°C	Relative Humidity	55%~65%
Test Items	Gain, 2D radiation pattern, VSWR, and other electrical performance verifications.		
Testing Standards	GB/T 9410-2008 "General Technical Requirements for Mobile Communication" Company's product specifications and manual.		
Test Summary	According to the inspection basis and product manual requirements, the sample antenna was tested for electrical performance at room temperature. All tested items met the standard requirements.		
Test Conclusion	☒ Passed ☐ Failed		
Inspected by : Zhongyang Rong Date : June 22, 2025		Reviewed by : Zhao Cai Date : June 22, 2025	

Antenna Specifications

Model	6124F00130
Frequency Range (MHz)	3300–3800
Horizontal Beamwidth (°)	≥65
Vertical Beamwidth (°)	≥20
Gain (dBi)	12.55
Polarization	±45°
VSWR	≤2.0
Port Isolation (dB)	≥22
Front-to-Back Ratio (dB)	≥22
Max Power (W)	100
Impedance (Ω)	50
Dimensions (mm)	443 × 272 × 22
Net Weight (kg)	1.5
Connector Type	NEX 10 ×4
Cable	RG141

Polarization Note: This device has four antennas: Antennas 1 and 3 are +45° polarized, and Antennas 2 and 4 are –45° polarized. The two groups of same-polarization antennas are orthogonal to each other.

Testing Instruments and Software

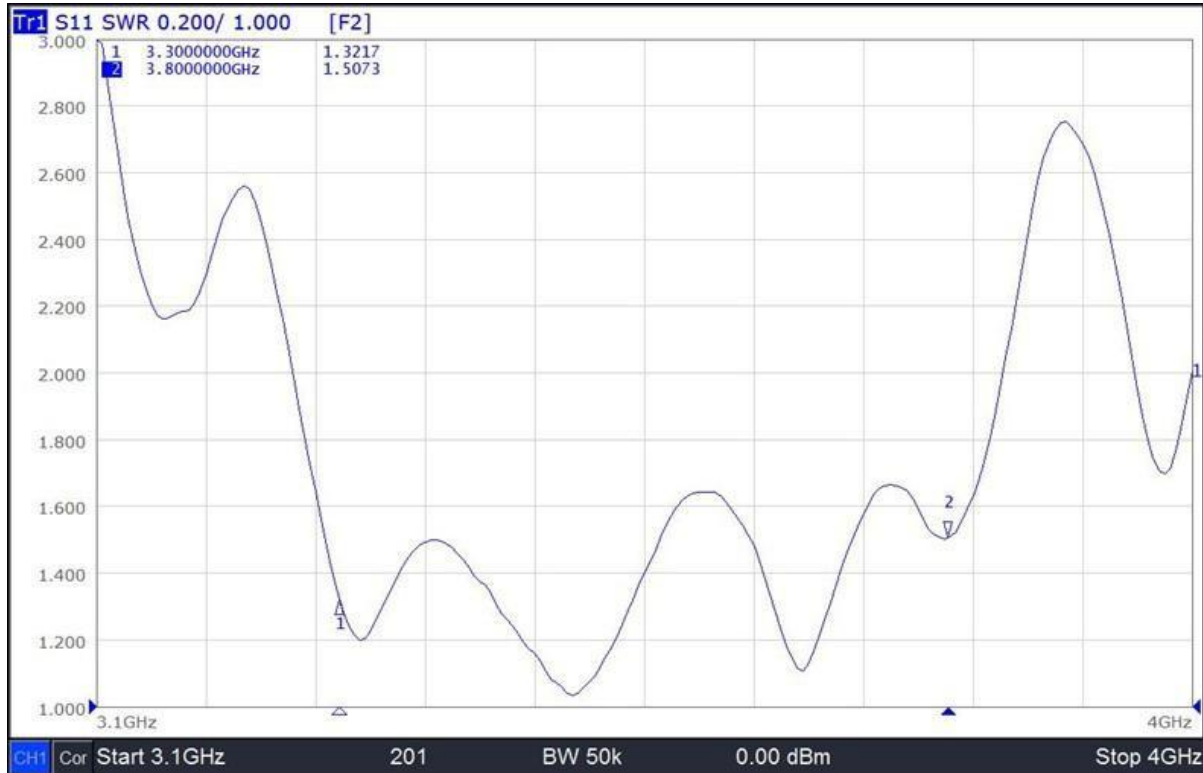
No.	Equipment Name	Model/Specification	Calibration Validity
1	36-Probe Near-Field Spherical Testing System (400MHz-8500MHz >	FT-DTT36-004	2024.12.25-2025.12.24
2	Testing Software	AntestPro-V38.20	/
3	Standard Horn Antenna (800MHz-8500MHz)	DSP-800	2024.12.25-2025.12.24
4	Network Analyzer (300kHz-8500MHz)	T5260C	2024.12.25-2025.12.24

5	Description of how measurements are made		1. After the antenna is installed on the test platform, the test turntable rotates along the Z-axis. At every 10-degree interval, the test probe collects the antenna radiation data, continuing until a full 360-degree rotation is completed, thereby acquiring data for all directions of the antenna and obtaining the near-field probe data. 2. The test software reads the near-field probe data and converts it into 3D far-field data with gain. From the 3D far-field data, the required 2D cross-sections are selected to read parameters such as gain, horizontal half-power beamwidth, front-to-back ratio, and other necessary indicators.
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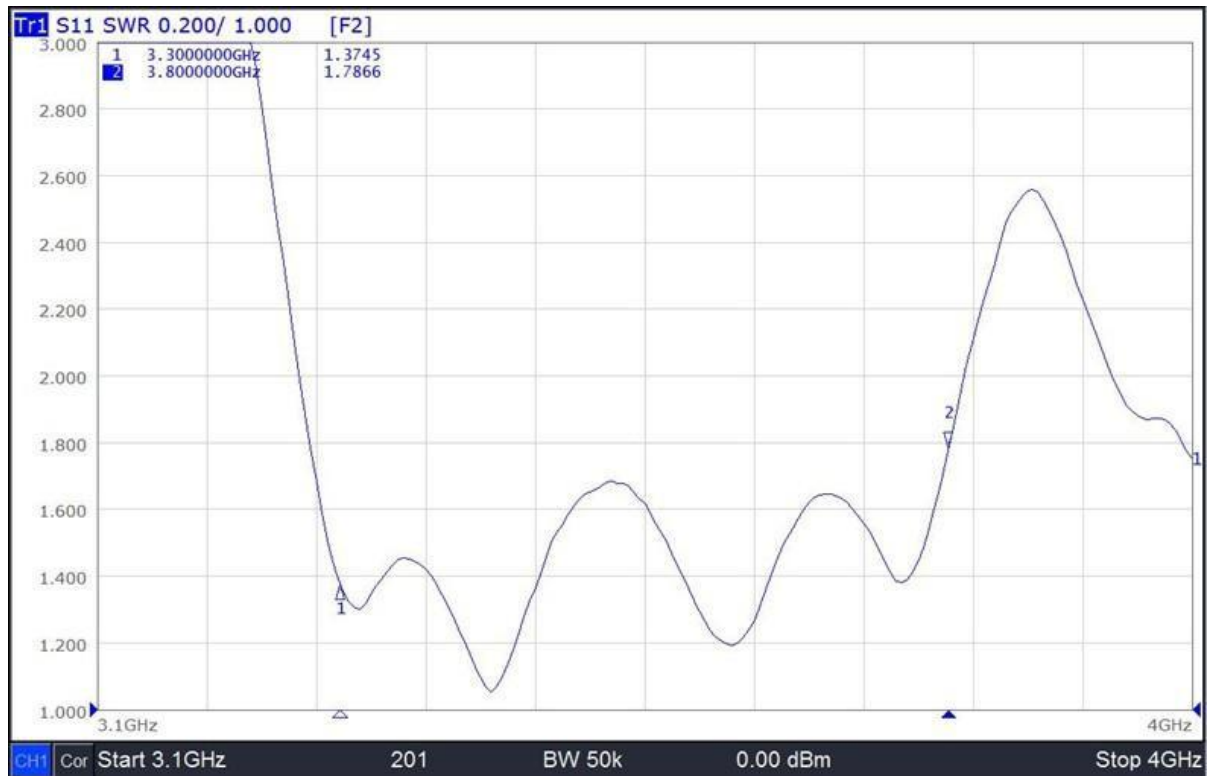
Antenna Test Results

P0 VSWR	P1 VSWR	P2 VSWR	P3VSWR	P0-P1 Isolation	P2-P3 Isolation
1.62	1.78	1.74	1.52	-23.3	-22.6

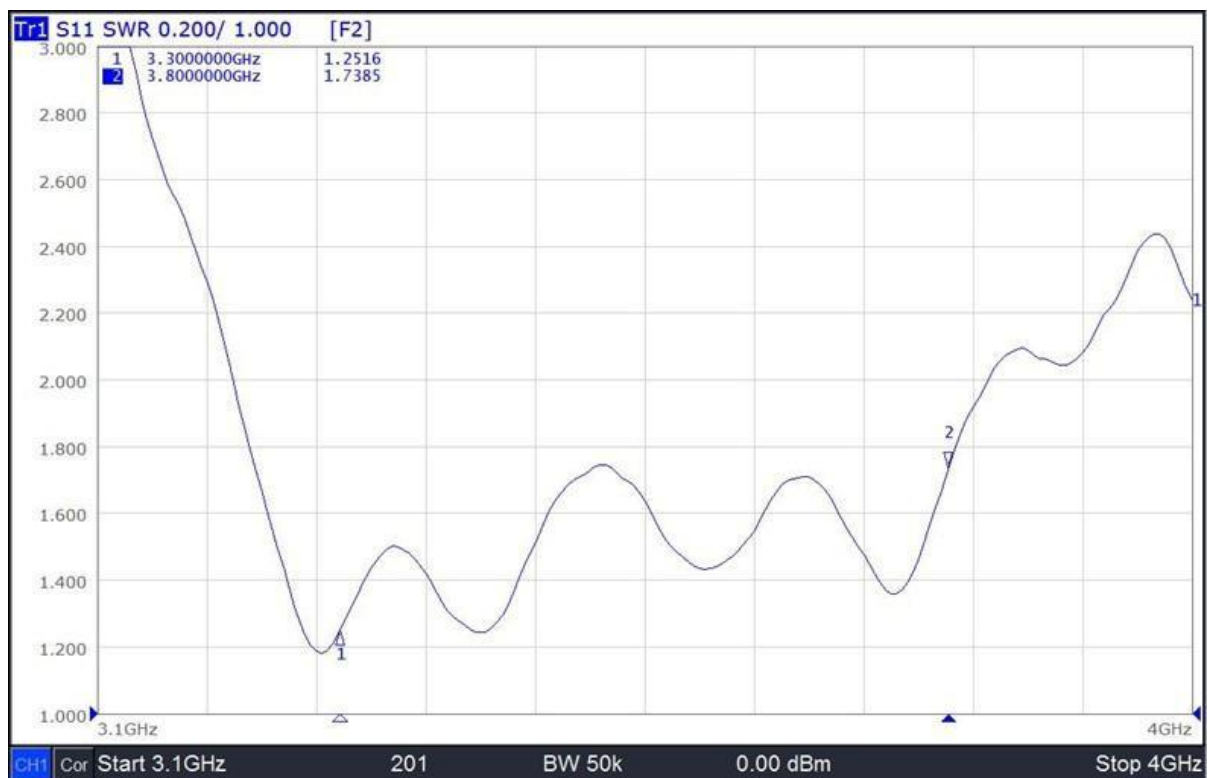
P0 VSWR Plot



P1 VSWR Plot



P2 VSWR Plot



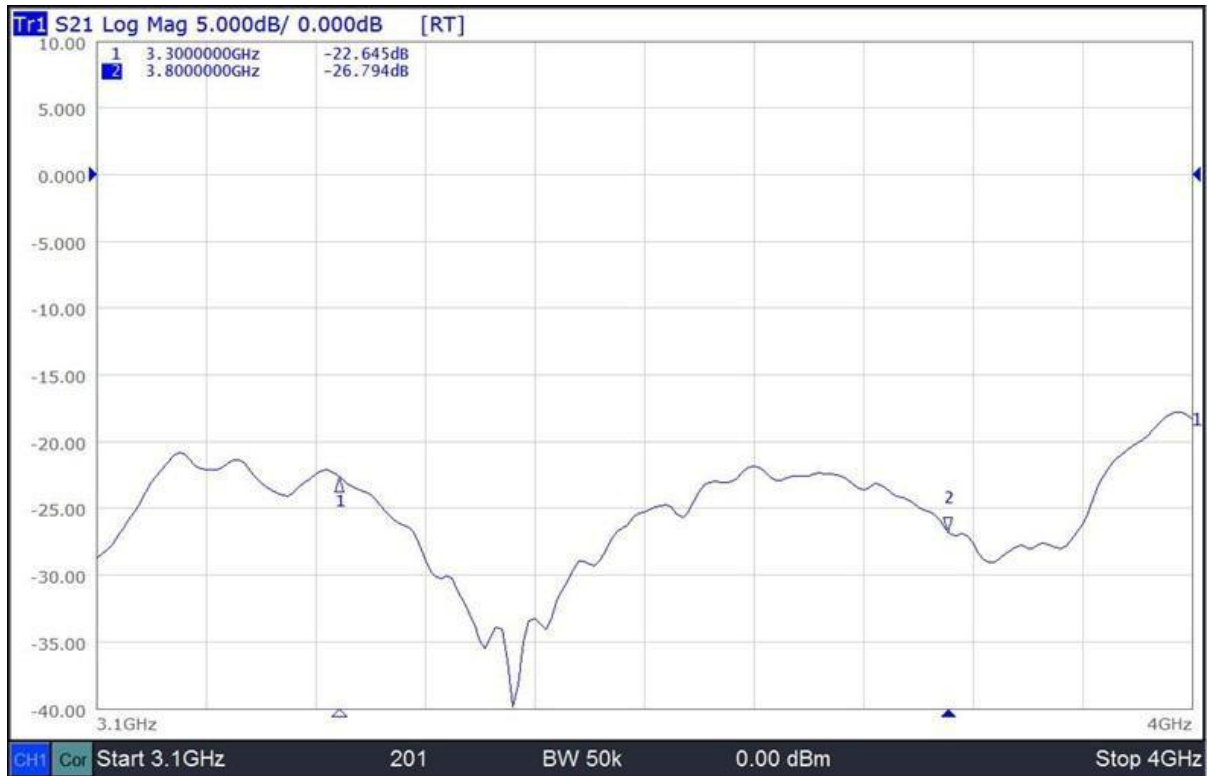
P3 VSWR Plot



P0-P1 Isolation



P2-P3 Isolation



Ant0

Test Item	Gain	H Plane (°)	E Plane (°)	H Plane F/B (dB)
Rrequirements	12.55	65	20	22
3300	11.52	72.02	25.74	26.95
3400	11.59	83.46	25.51	30.57
3500	11.89	71.41	22.78	33.86
3600	12.25	72.5	20.81	32.95
3700	12.37	67.87	21.44	34.61
3800	12.55	70.48	20.19	30.73

Ant1

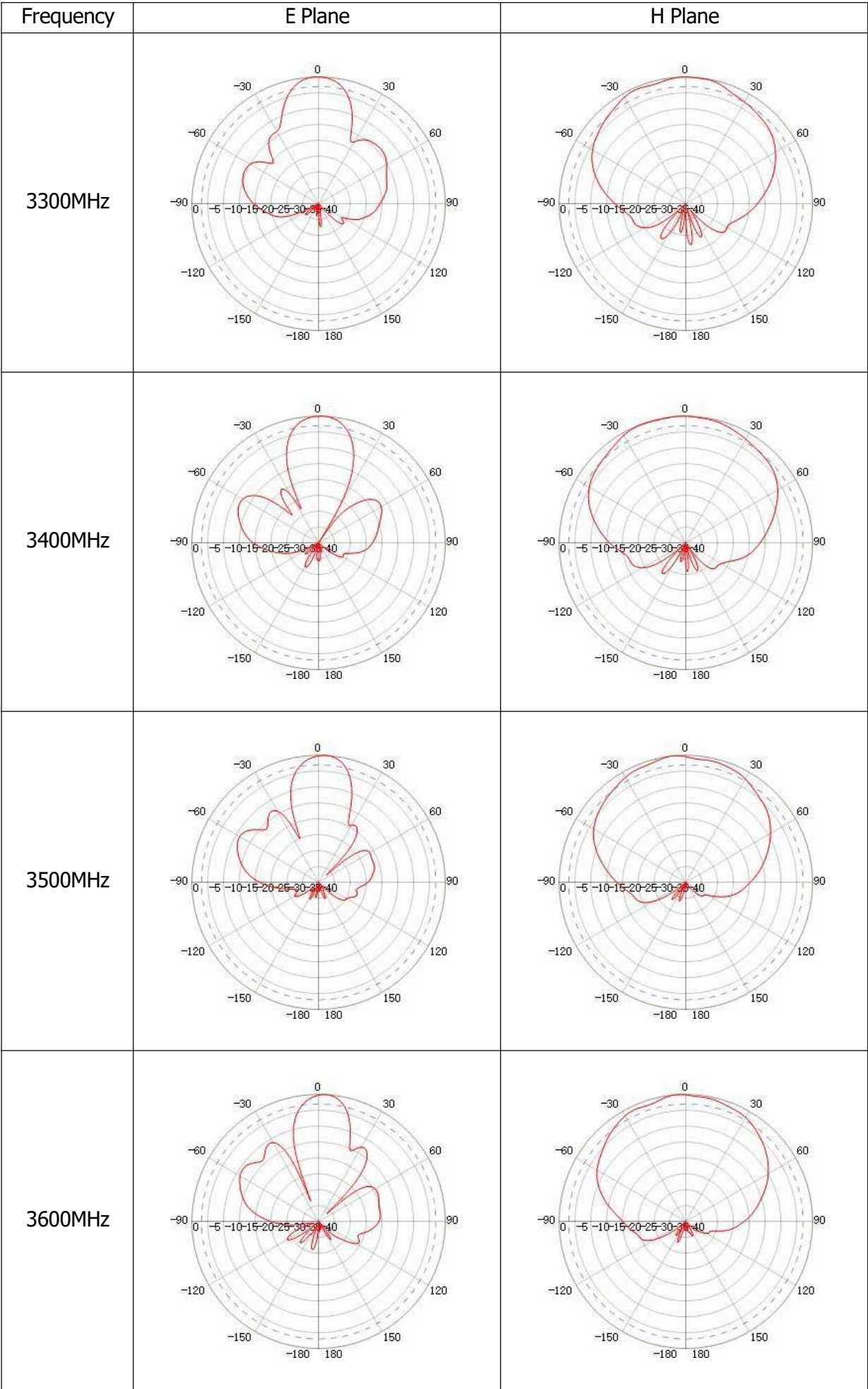
Test Item	Gain	H Plane (°)	E Plane (°)	H Plane F/B (dB)
Rrequirements	12.55	65	20	22
3300	11.48	80.92	25.46	27.8
3400	11.68	87.11	25.12	28.55
3500	11.85	83.1	24.17	31.29
3600	12.05	76.52	22.74	28.9
3700	12.26	69.21	21.88	30.79
3800	12.36	73.22	20.51	31.83

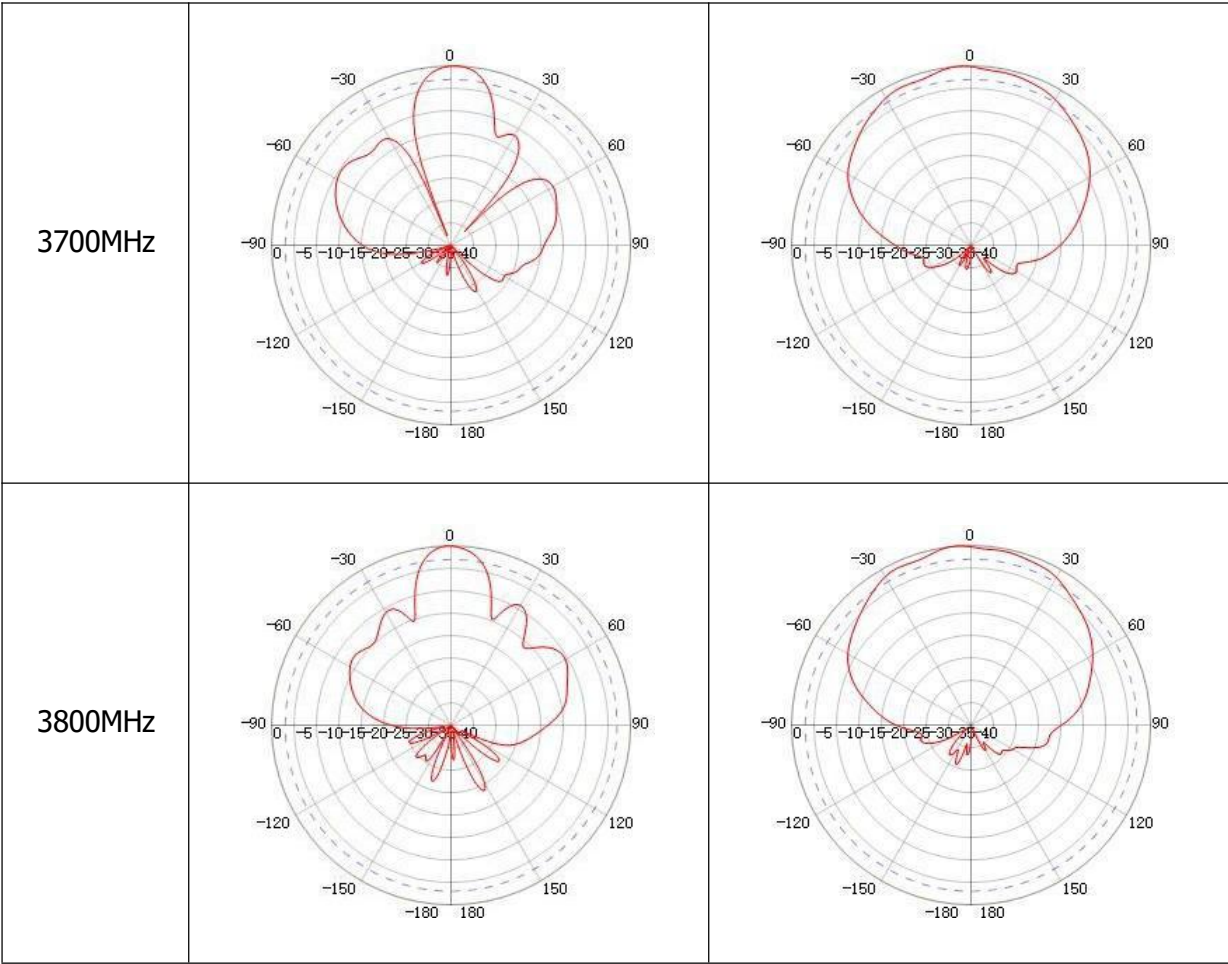
Ant2

Test Item	Gain	H Plane (°)	E Plane (°)	H Plane F/B (dB)
Rrequirements	12.55	65	20	22
3300	11.53	75.8	26.37	28.07
3400	11.41	79.1	25.89	28.03
3500	11.94	72.62	23.3	30.78
3600	12.24	71.94	20.57	30.15
3700	12.18	70.46	20.43	28.39
3800	12.25	72.15	21.45	29.58

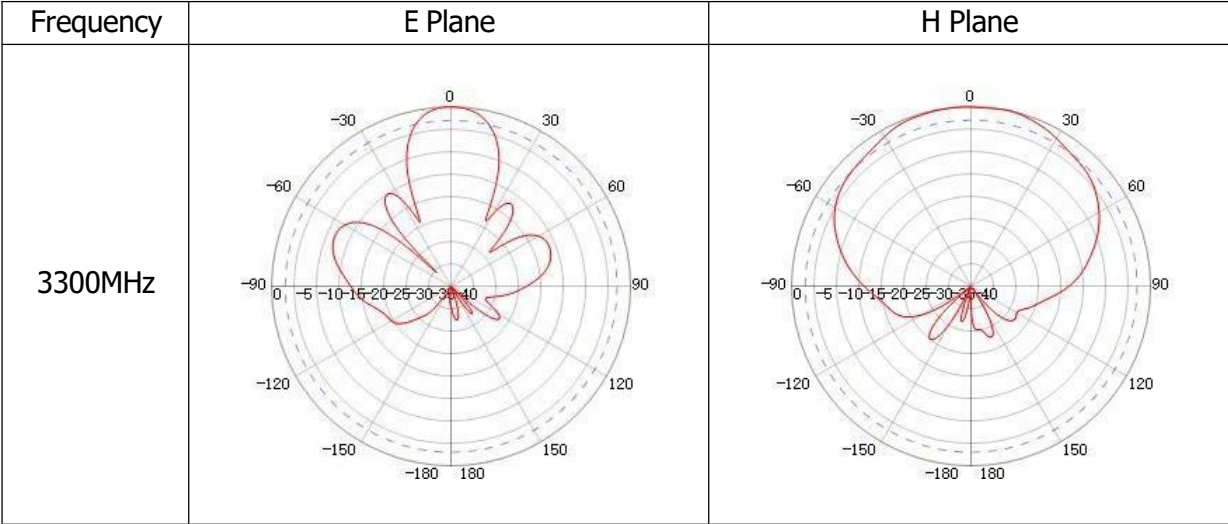
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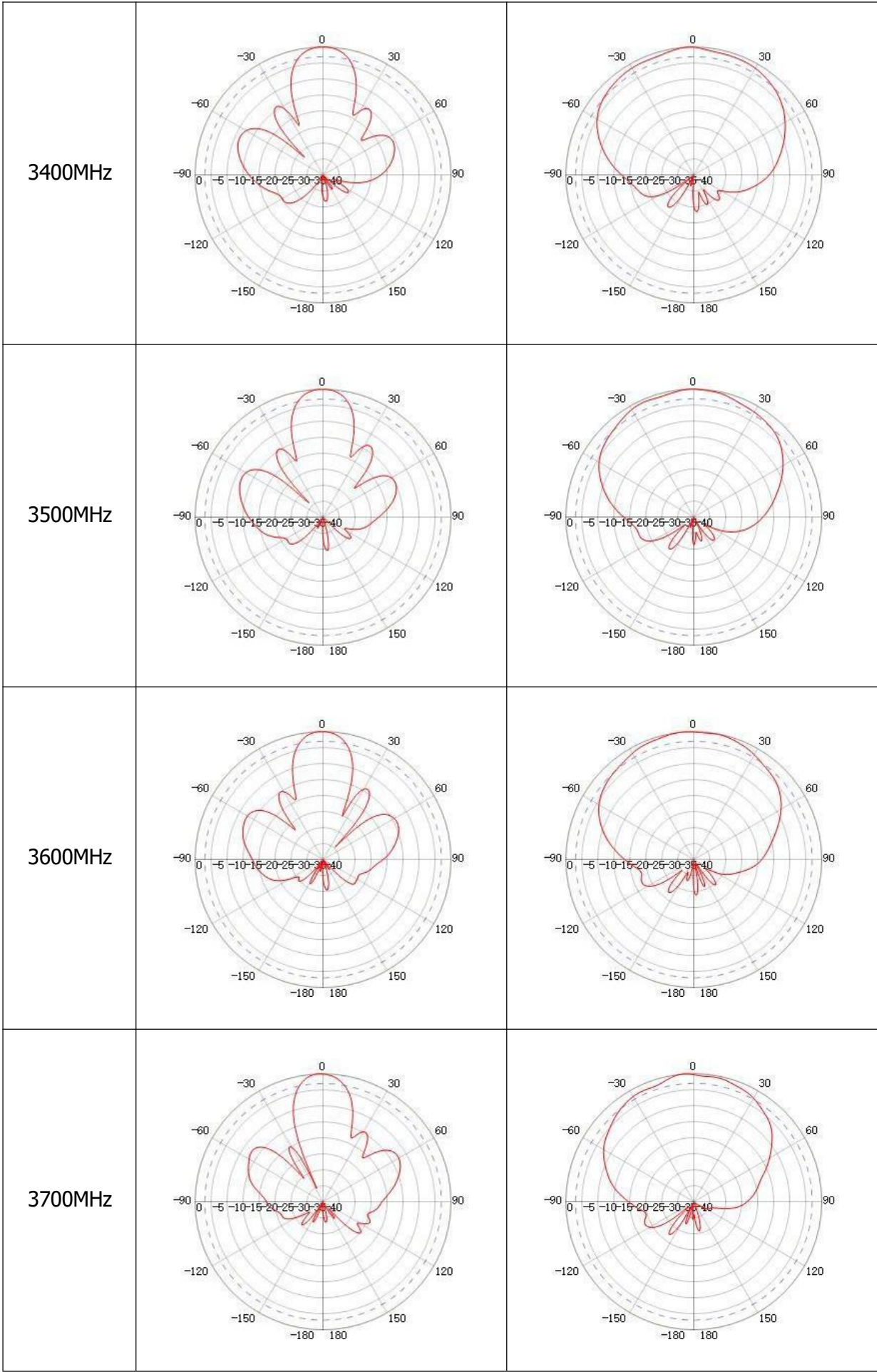
Test Item	Gain	H Plane (°)	E Plane (°)	H Plane F/B (dB)
Rrequirements	12.55	65	20	22
3300	11.66	73.65	23.39	26.23
3400	11.64	79.42	23.11	28.68
3500	11.95	79.89	22.54	31.02
3600	12.36	77.49	21.94	28.87
3700	12.26	67.81	22.09	29.33
3800	12.54	72.29	20.12	32.82

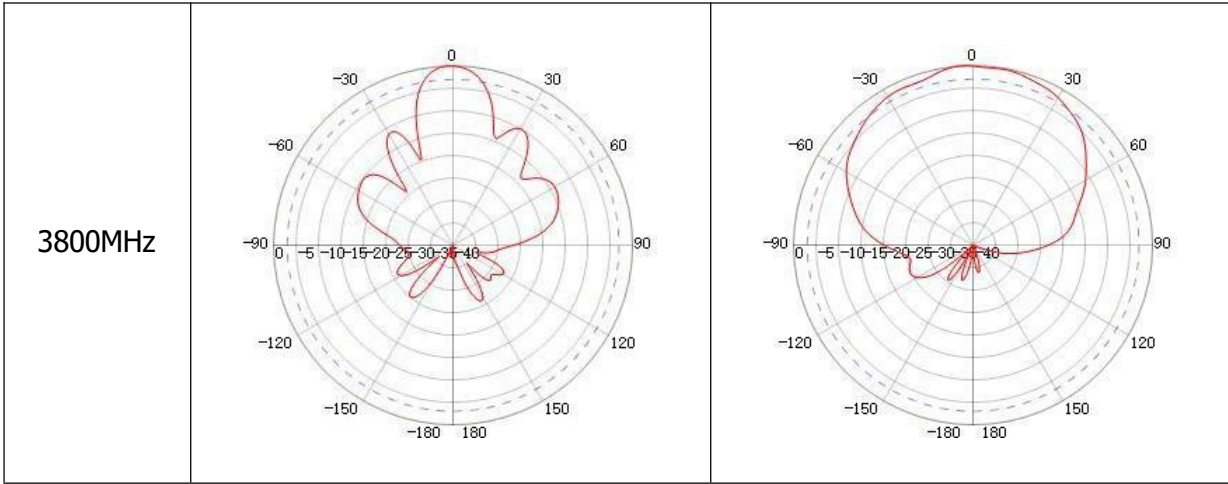




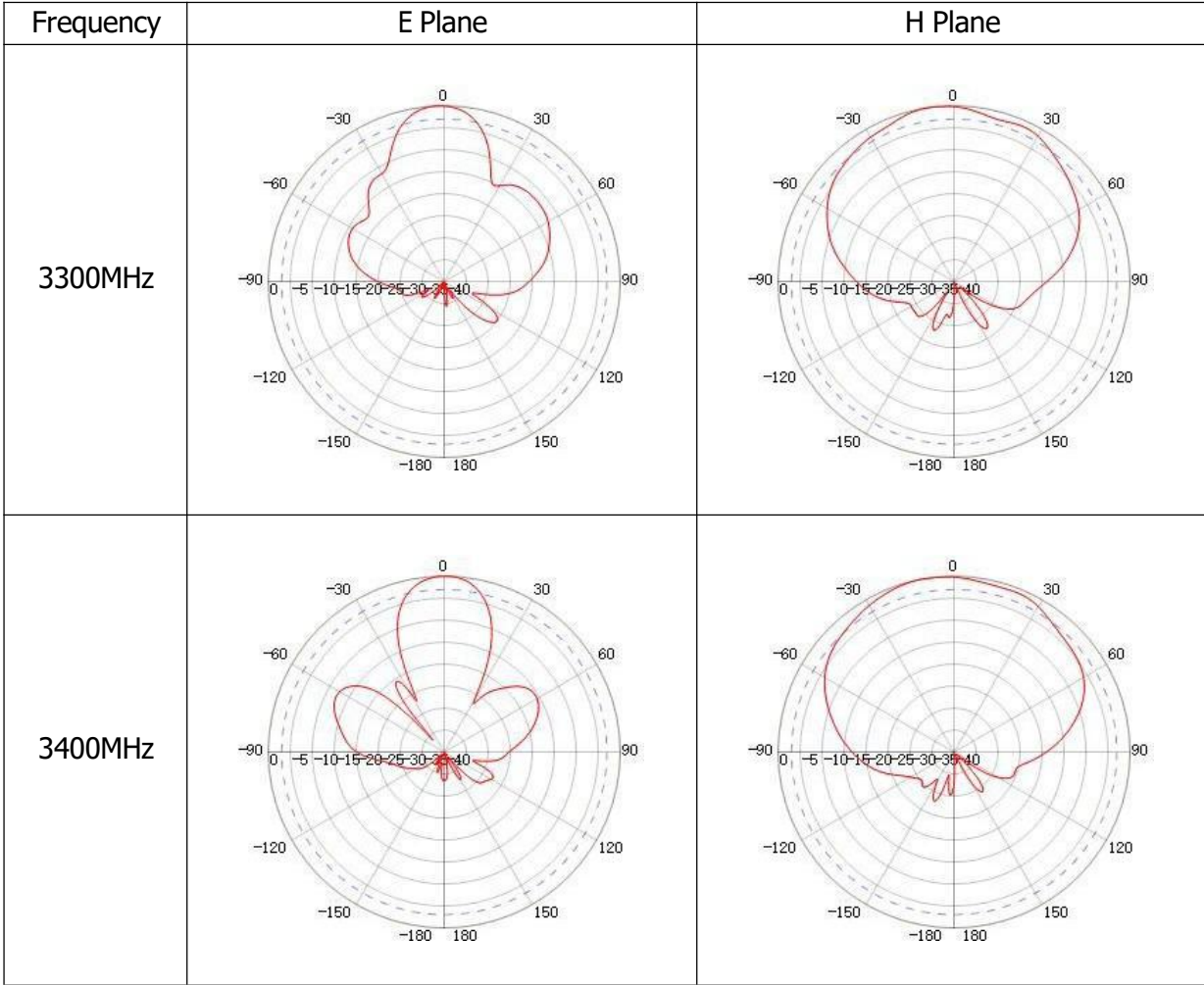
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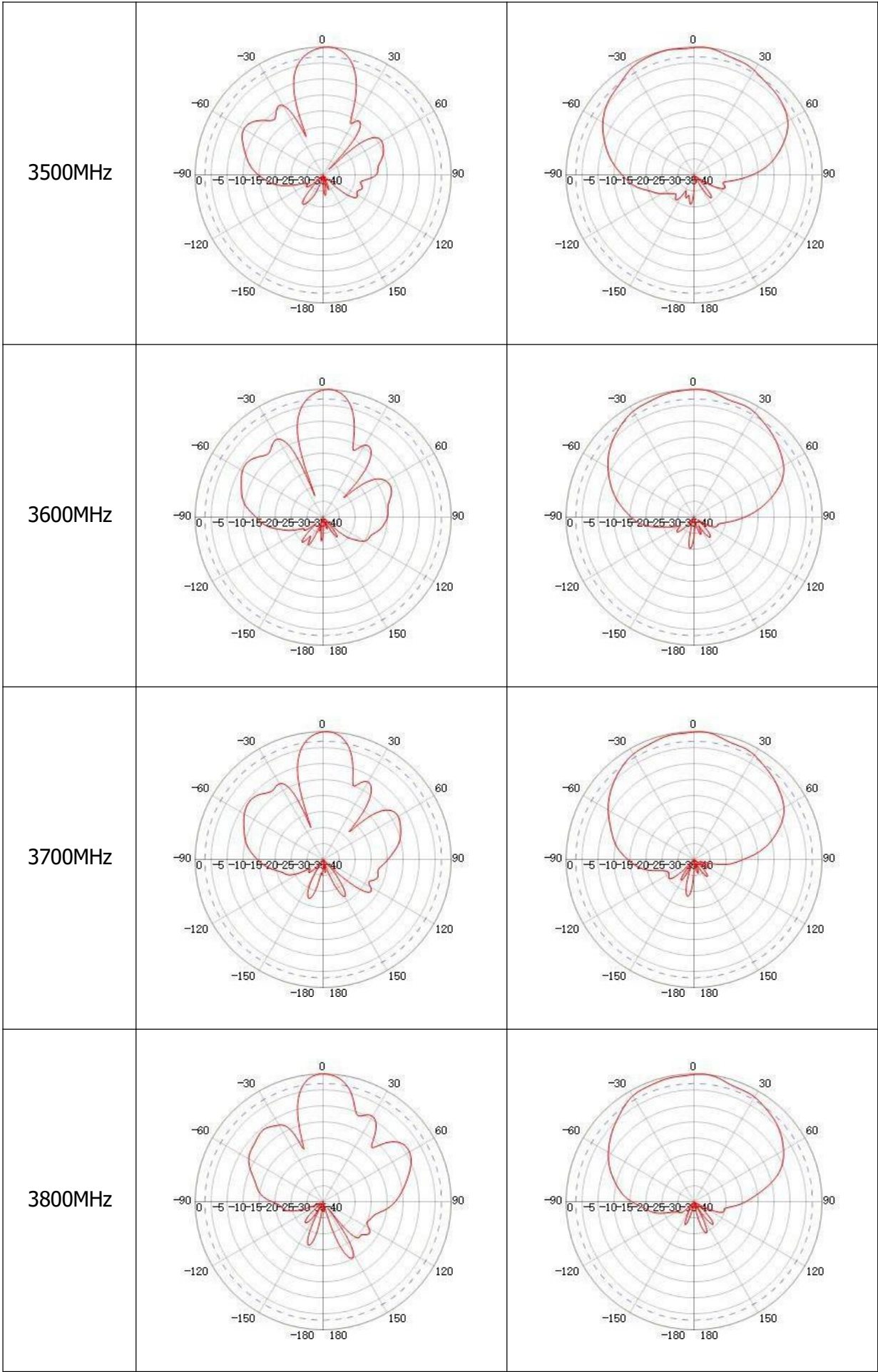


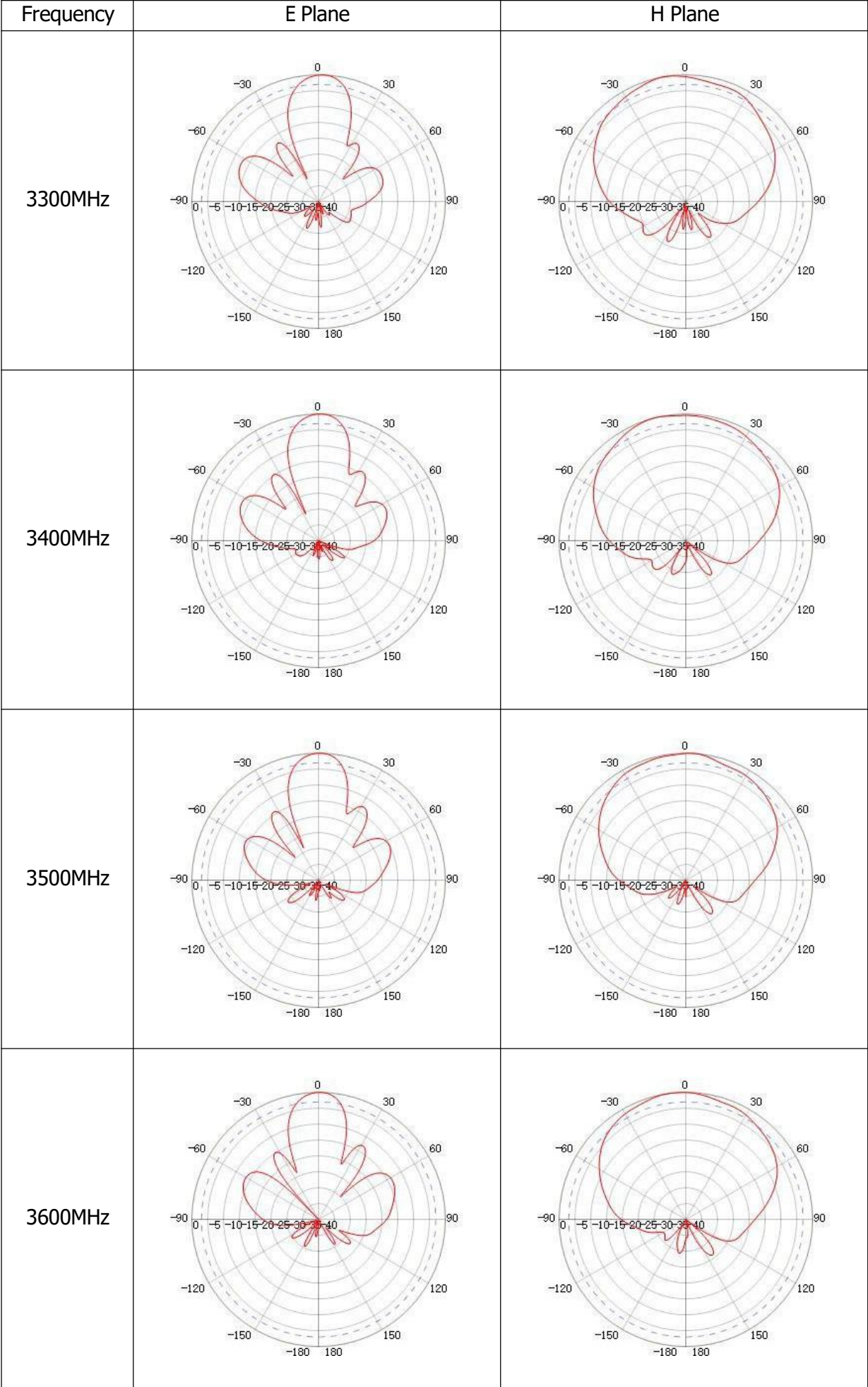




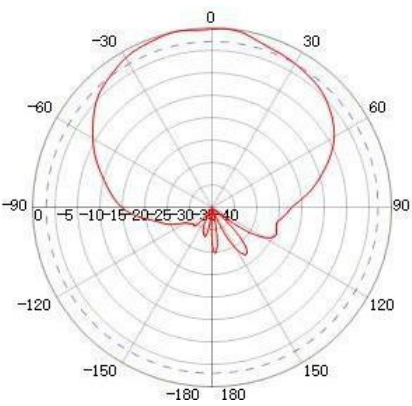
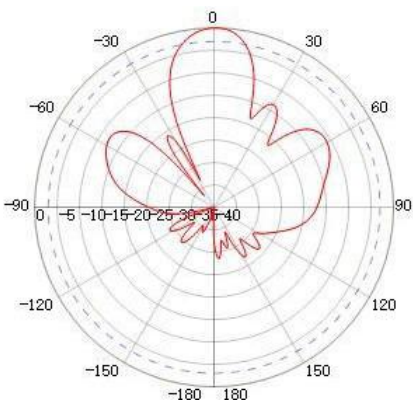
Ant2







3700MHz



3800MHz

