



No. : ZJ-2022031801

TEST REPORT

Product Name: Omni Antenna

Model: TQJ-2458A

Test Sort: Type inspection

Client: PD

Test date: March 18 2022

Kenbotong Technology Co., Ltd.
Testing Center

KBT-OP-10026-2/00-1

Test Report

Sample name	Omni Antenna	Sample Amount	1		
Model	TQJ-2458A	Product Trademark	KBT		
Client	PD				
Product department	The PD of Kenbotong Technology Co., Ltd.				
Test place.	The testing center of Kenbotong Technology Co., Ltd.				
Date Received	March 18 2022	Test date	March 18 2022		
Test Conditions	Temperature: 22	Relative Humidity: 55%			
Test Items	Frequency range ,Gain ,Antenna 2D pattern ,VSWR				
Testing Regulations	GB/T 9410-2008 General specification for antennas used in mobile communications Kenbotong Technology Co., Ltd. Omni Antenna Specifications.				
Test Profile and Analysis	According to the standard and the requirements from the client, the performance of Omni Antenna of TQJ-2458A at normal temperature have been tested.				
Testing Conclusion	☒ Passed ☐ Failed Test Appropriative cachet				
Test by:	Checked by:	Approved by:			
Hongliang Fan	Zhihui Du	ze ji Luo			
Date: 2022.3.18	Date: 2022.3.18	Date: 2022.3.18			

Performance of the Antenna at Normal Temperature

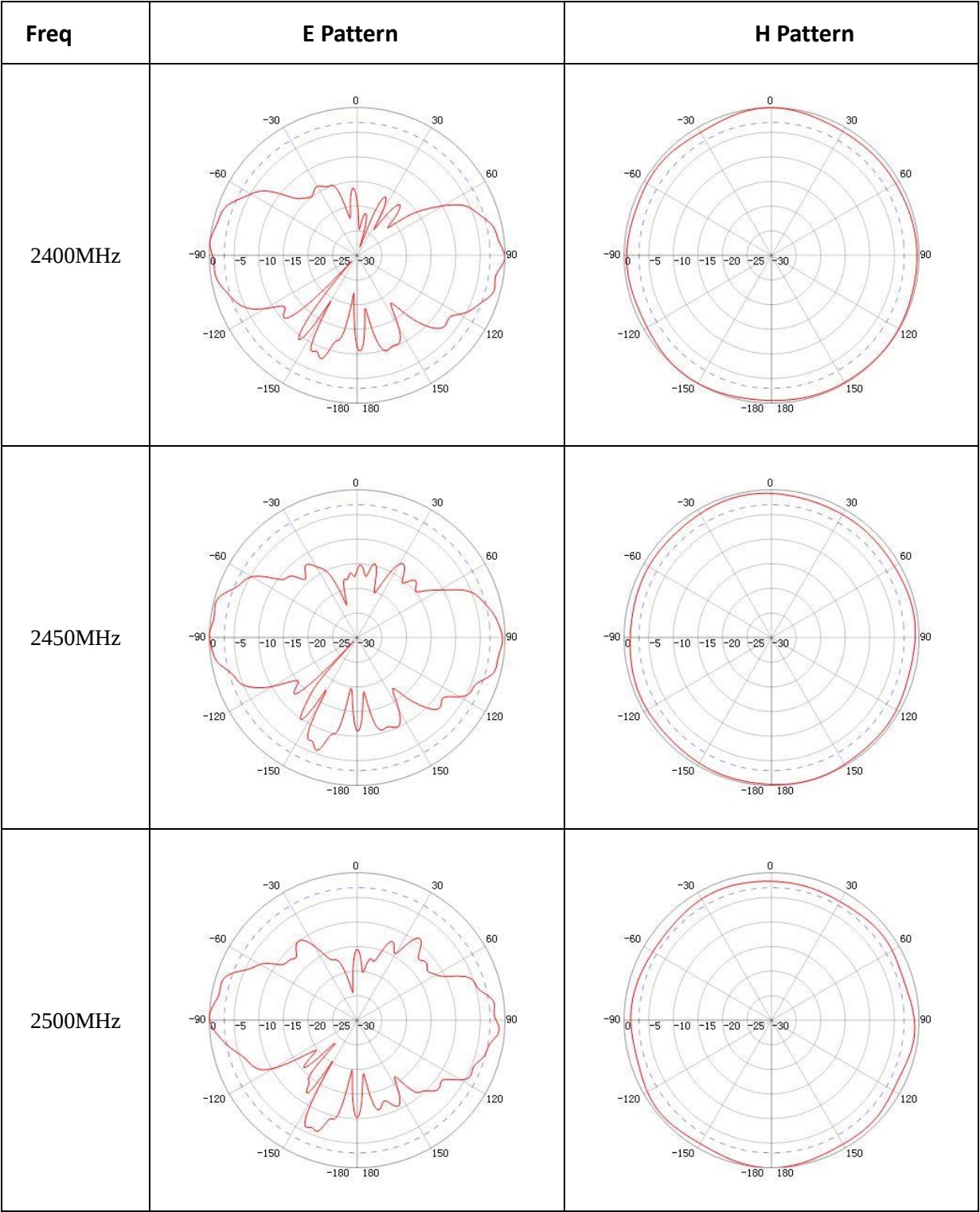
No.	Examination item	Requests of index	Units	Test results		Decide
1	Frequency range	2400-2500/5150-5875	MHz	2400-2500/5150-5875		Passed
2	Gain	$3.5\pm1/6.5\pm1$	dBi	2400	4.03	Passed
				2450	4.43	
				2500	4.26	
				5150	6.24	
				5250	6.14	
				5350	6.25	
				5450	6.37	
				5550	6.62	
				5650	7.17	
				5750	7.35	
				5850	7.46	
				5875	6.94	
3	VSWR	$2400-2500\leqslant2.2(\max)$ $@5150-5875\leqslant2.2(\max)$	/	1.54/1.78 (Chart1)		Passed
4	Vertical Beam width	$30\pm8/20\pm5$	°	2400	35.24	Passed
				2450	28.32	
				2500	29.07	
				5150	23.44	
				5250	21.91	
				5350	22.74	
				5450	21.01	
				5550	21.81	
				5650	21.08	
				5750	21.27	
				5850	22.05	
				5875	21.53	
5	Horizontal Beam width	Omni-directional	/	Omni-directional		Passed
6	pattern	/	/	patterns		Passed
7	Polarization	Vertical	/	Vertical		Passed
Decide; Requests by the client , All specifications under test are passed.						

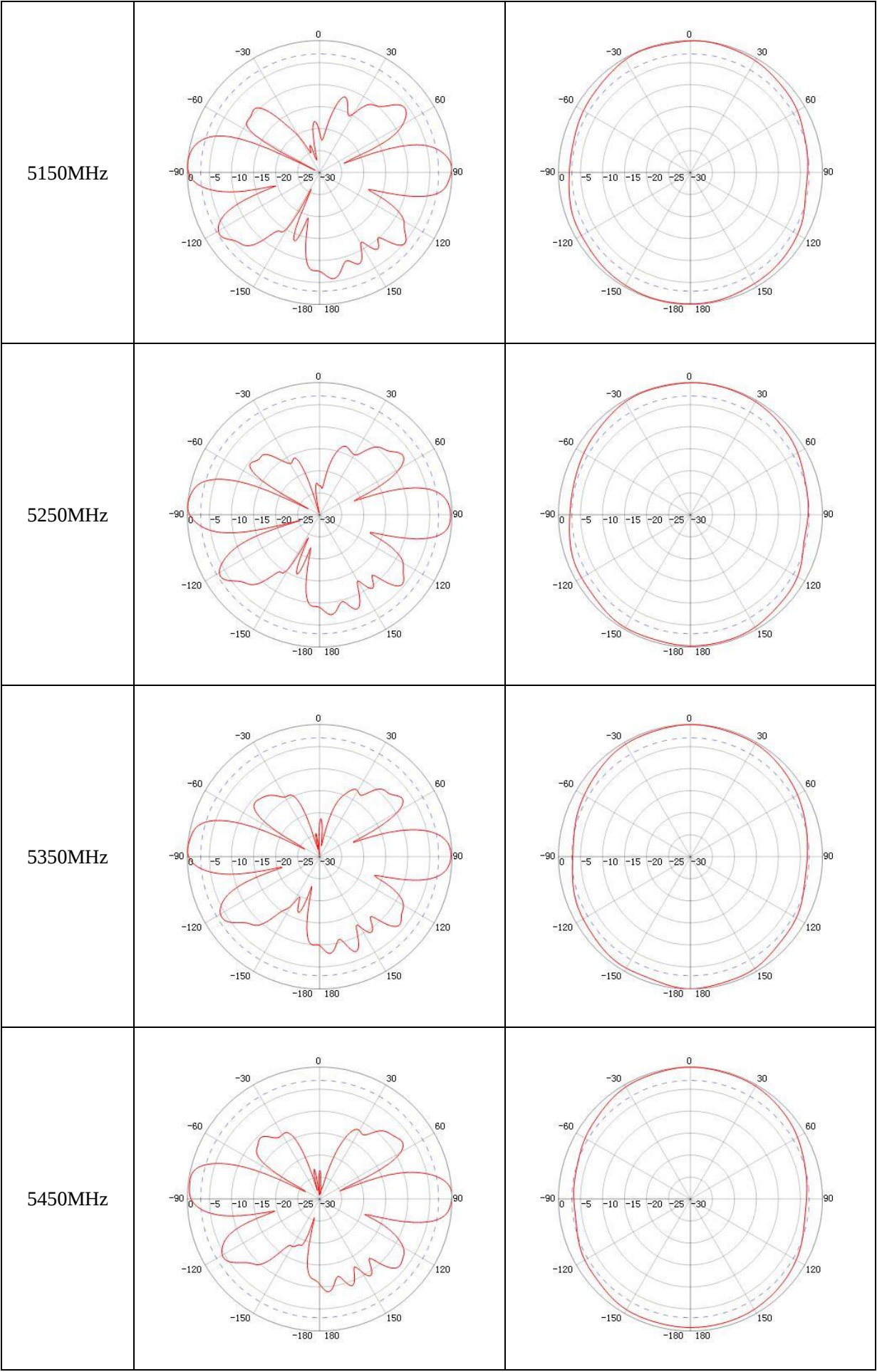
The VSWR at Normal Temperature

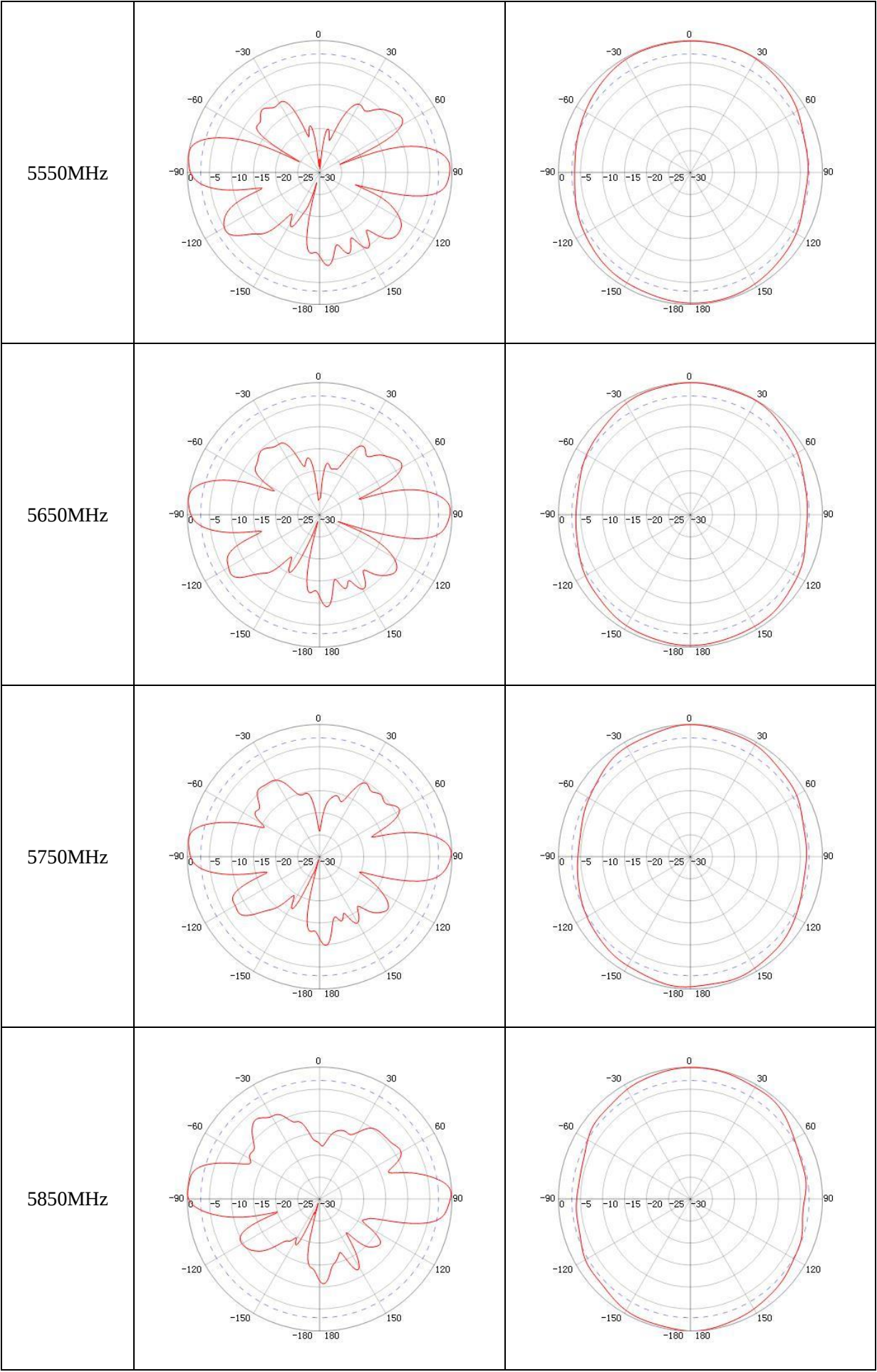


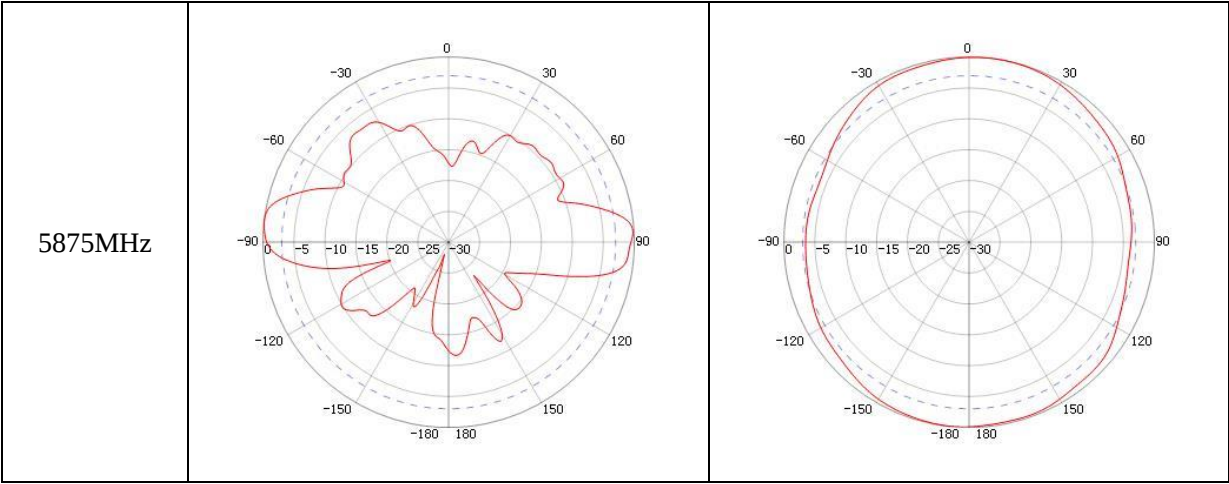
Chart1

The Pattern at Normal Temperature









Devices been used

No.	Name	Model	Period of Validity
1	Test Systems	SG64	Within Effective Date
2	Standard Gain Antenna	SH-400	Within Effective Date