

Well Green Technology Co., Ltd

**No. 20, Alley51 ,Lane 118,ShuangLian Sec.2,Mintzu Rd.,
PingJen City, TaoYuan Hsien, Taiwan, R.O.C
TEL: (03)420-6428 FAX: (03) 420-6418**

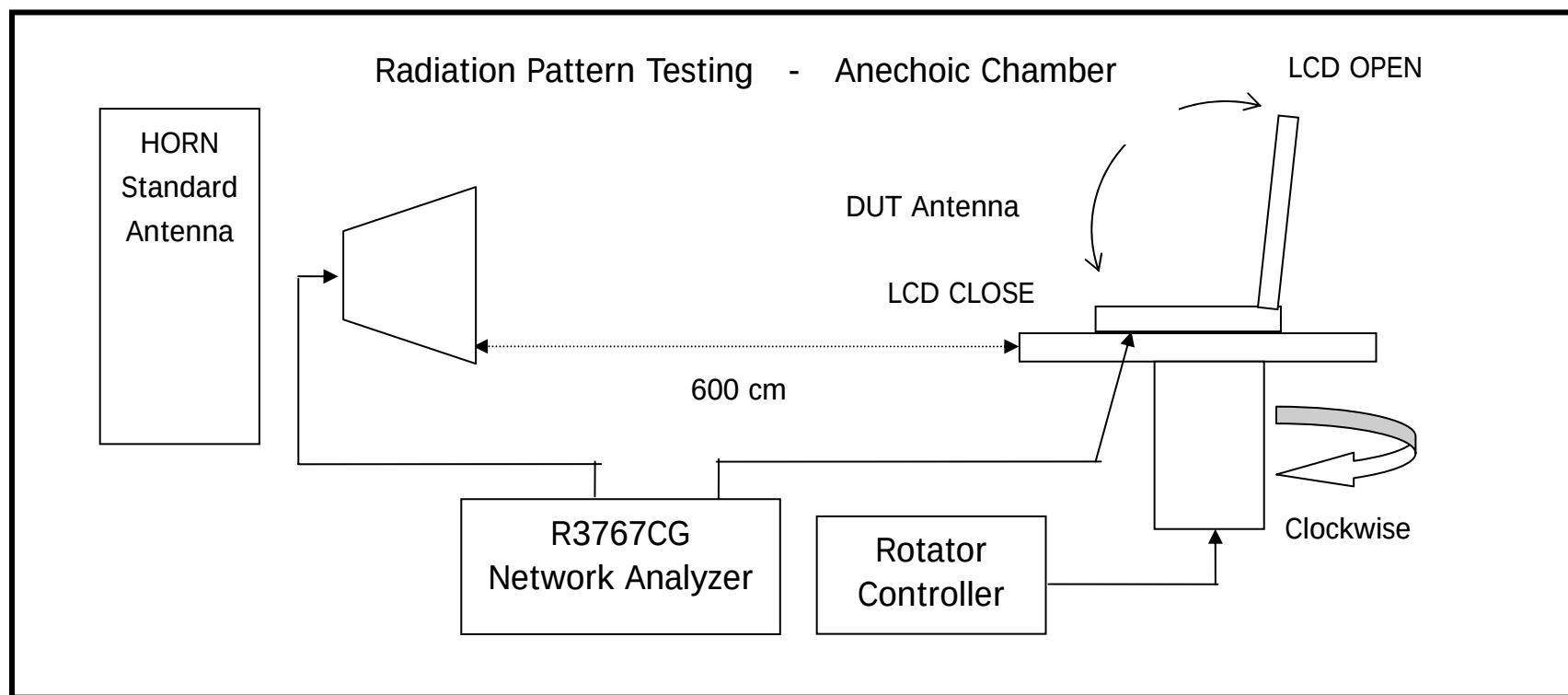
TWINHEAD R15B

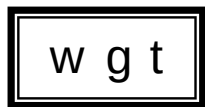
Antenna Test Report

RD Manager	Supervisor	RD engineer	Sales engineer
David	Johnson	Tim	Jerry

I Antenna Testing Conditions:

1. Testing set up:

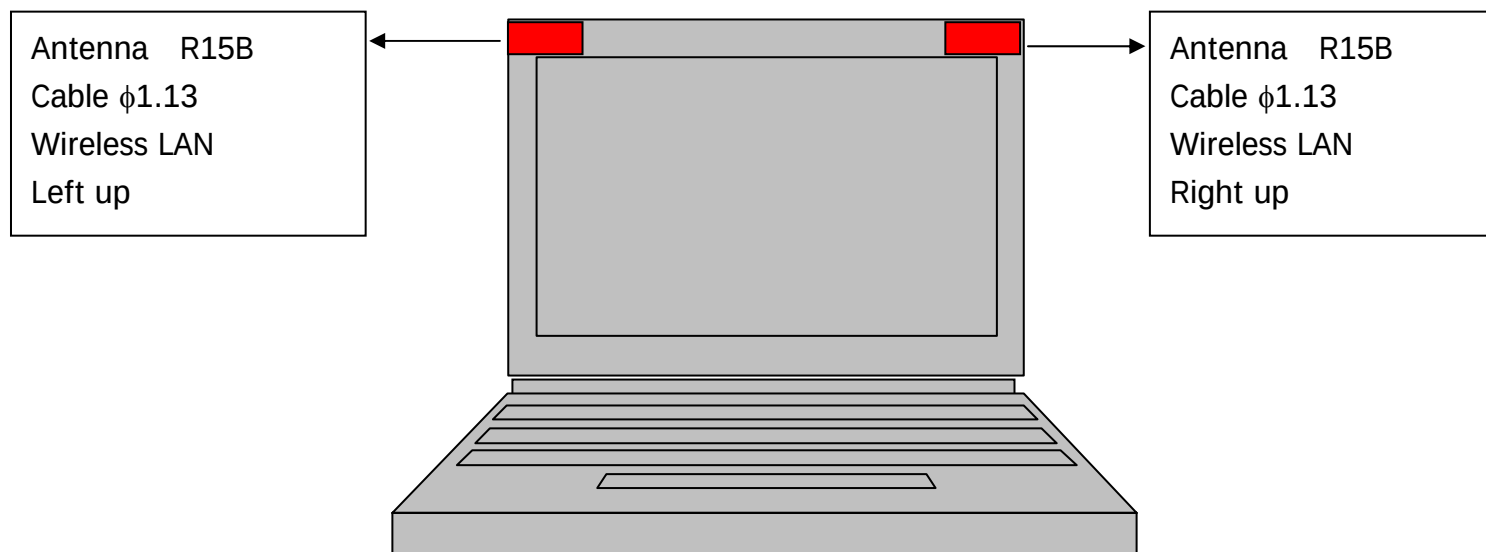


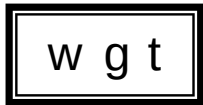


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2. Mechanical dimensions





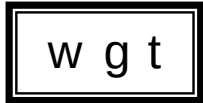
II Test results-Left

Antenna	Application	Cable dia. Φ mm
R15B	Wireless	1.13

1.VSWR

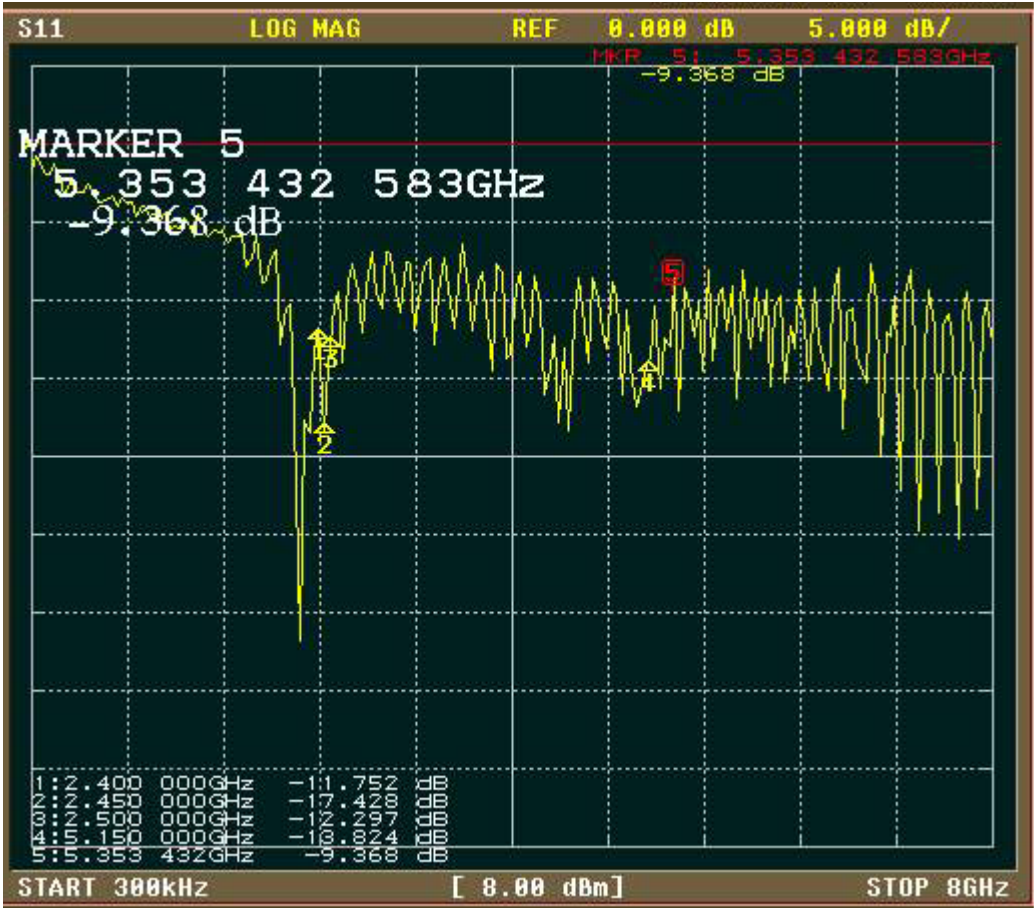
Antenna	Center freq. @MHz	BW @MHz	VSWR		
			2.4GHz	2.45GHz	2.5GHz
R15B	2450		1.72	1.31	1.65





2. Return Loss

Antenna	Center freg. @MHz	BW @MHz	Return Loss		
			2.4GHz	2.45GHz	2.5GHz
R15B	2450		-11.75	-17.42	-12.29

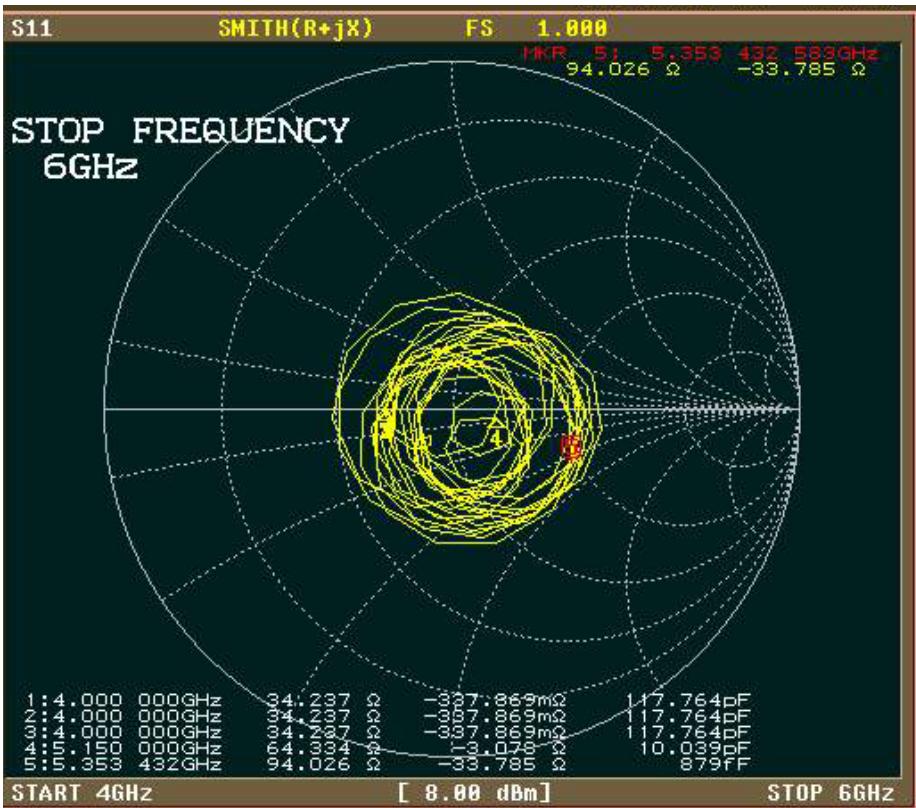
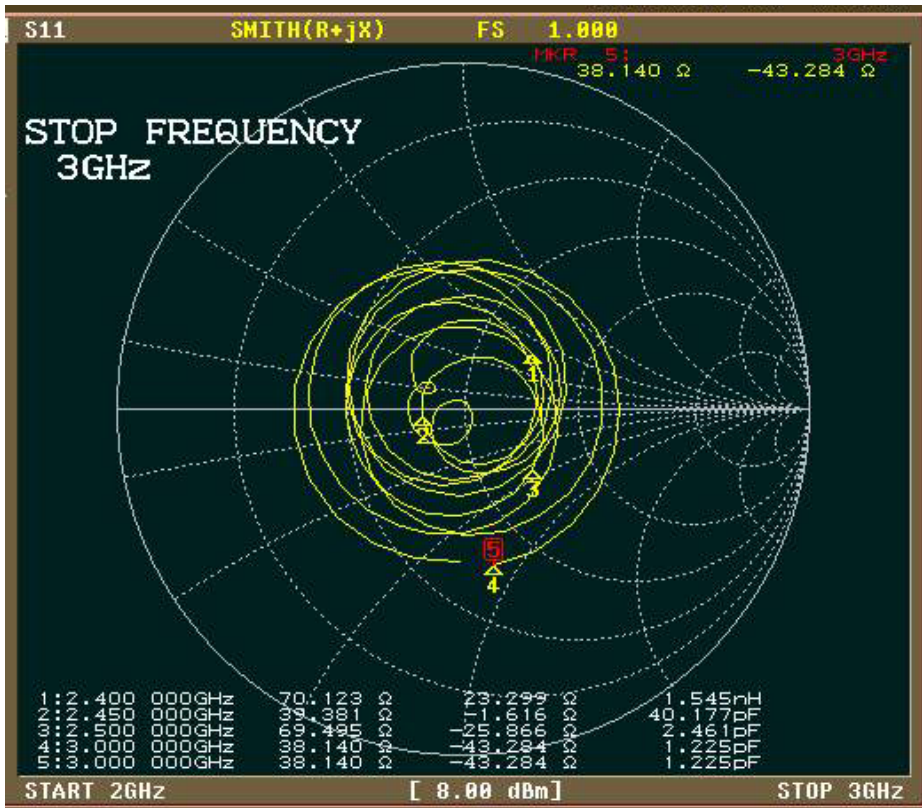




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3. Smith Chart

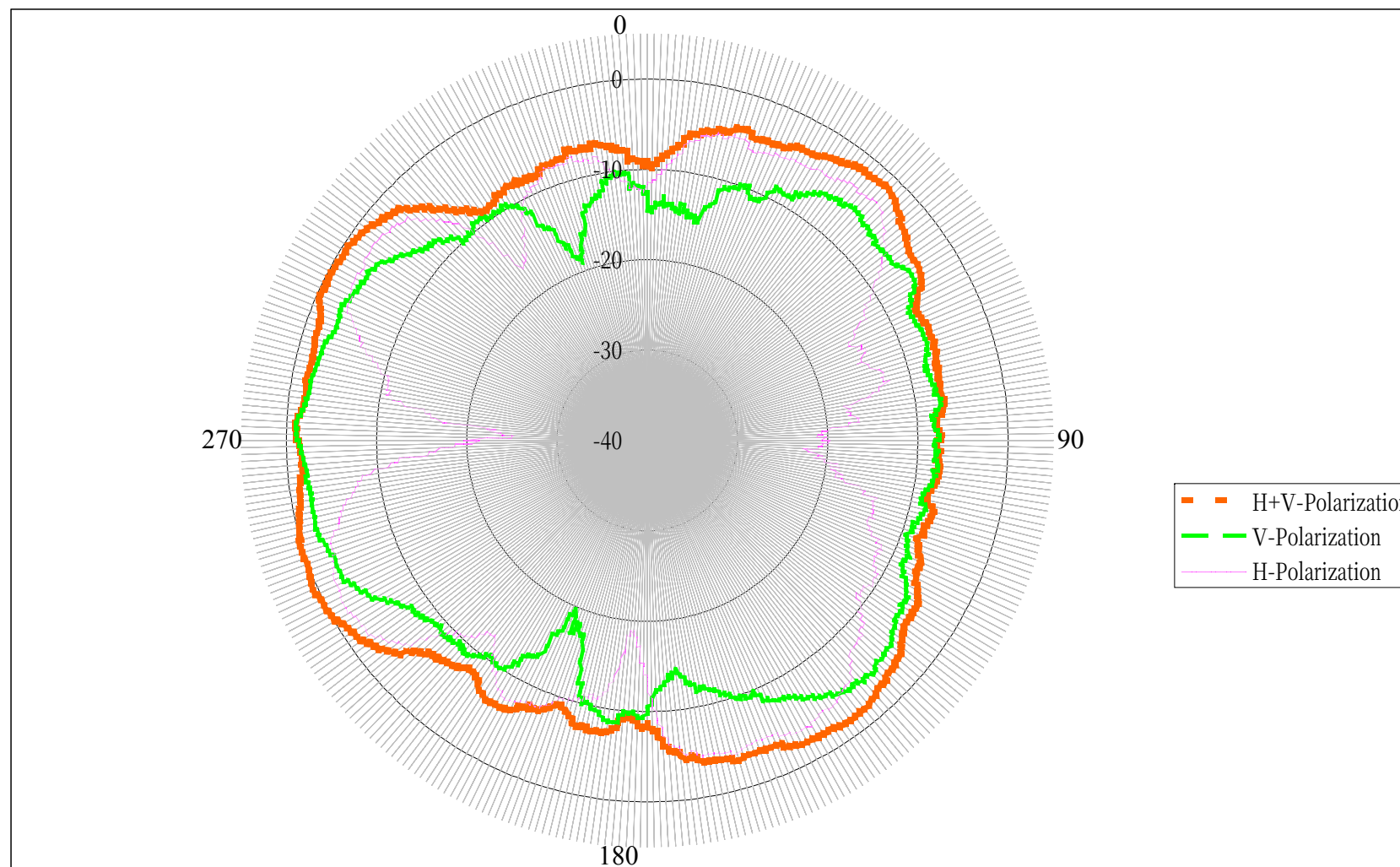




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4. Radiation Pattern of XY Plane(Azimuth)-2.45GHz

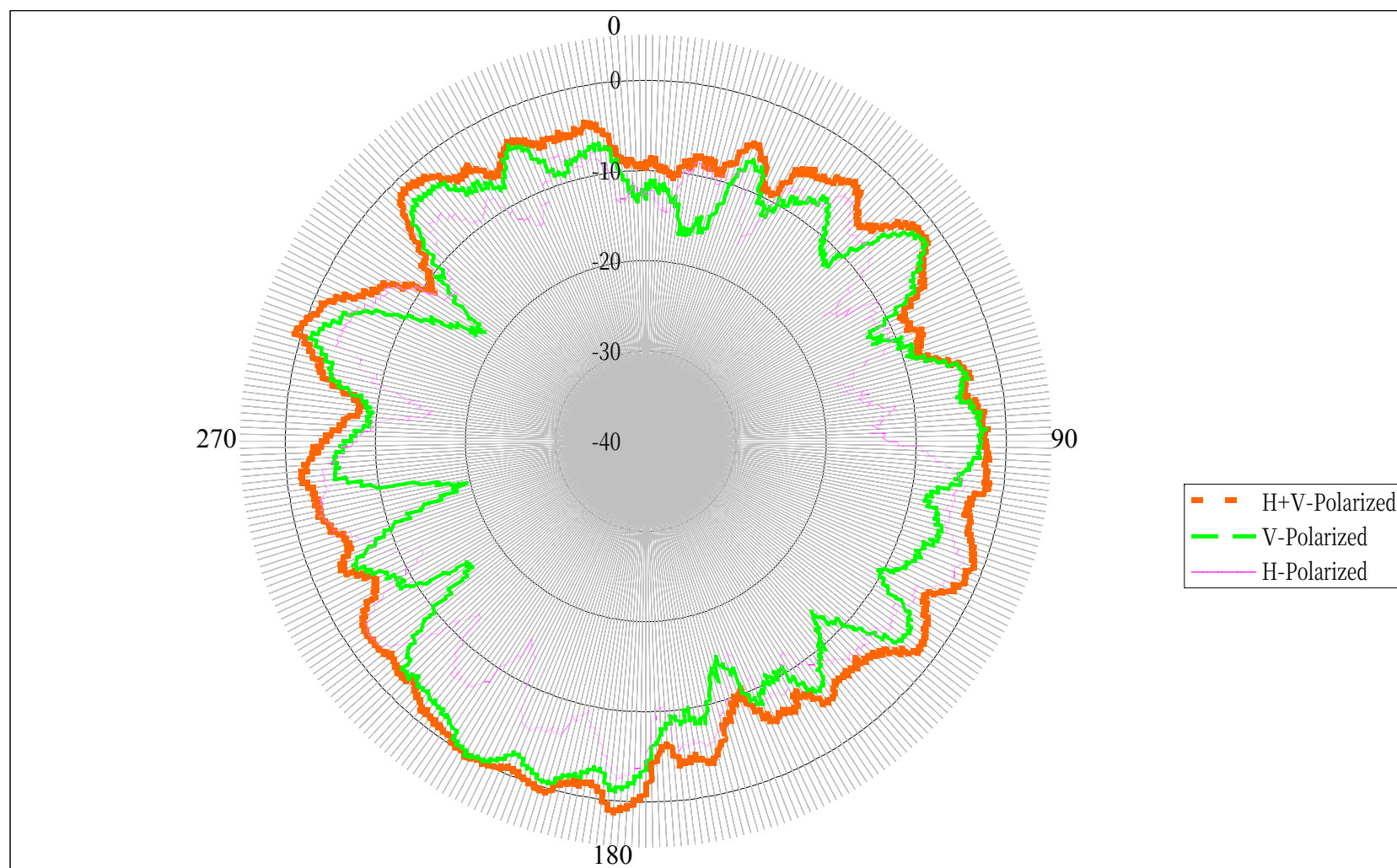




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5. Radiation Pattern of XY Plane(Azimuth)-5.25GHz

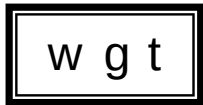




6. Peak Gain and Average Gain

Antenna	Gain of XY Plane (Azimuth)		
	Polarization		2.45GHz-L
R15B	V	Peak	-0.98
		Average	-6.67
	H	Peak	-1.67
		Average	-6.92
	H+V	Peak	0.57
		Average	-3.78

Antenna	Gain of XY Plane (Azimuth)		
	Polarization		5.25GHz-L
R15B	V	Peak	0.18
		Average	-5.83
	H	Peak	-2.22
		Average	-7.44
	H+V	Peak	1.32
		Average	-3.55



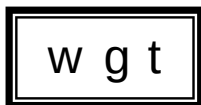
III Test results-Right

Antenna	Application	Cable dia. Φ mm
R15B	Wireless	1.13

1.VSWR

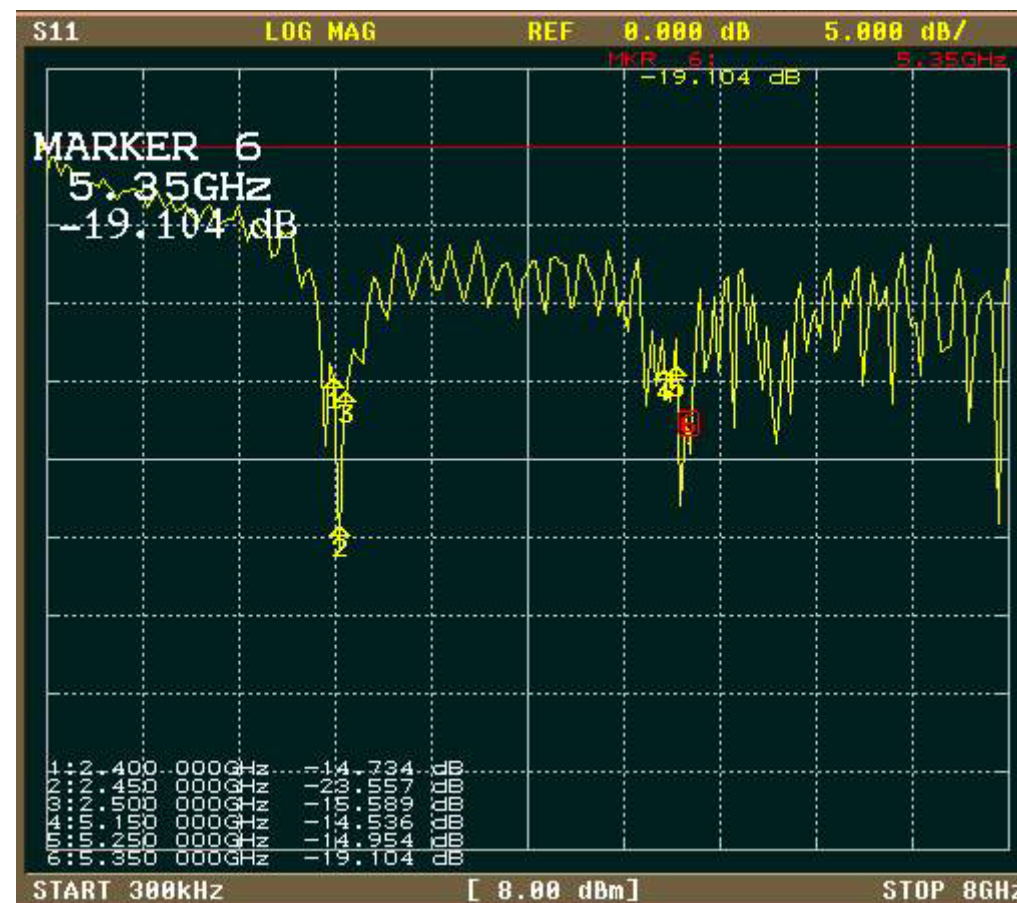
Antenna	Center freg. @MHz	BW @MHz	VSWR		
			2.4GHz	2.45GHz	2.5GHz
R15B	2450		1.44	1.17	1.38





2. Return Loss

Antenna	Center freg. @MHz	BW @MHz	Return Loss		
			2.4GHz	2.45GHz	2.5GHz
R15B	2450		-14.73	-23.55	-15.58

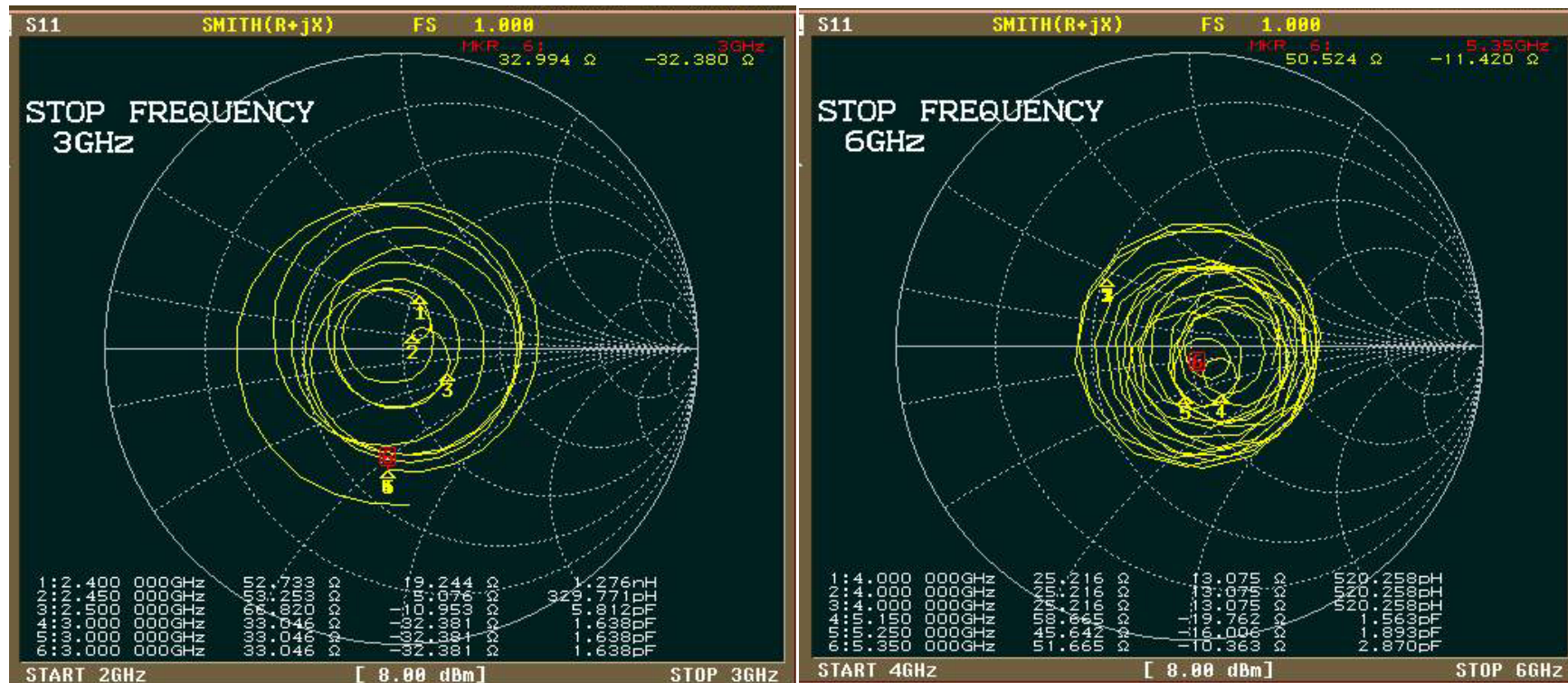


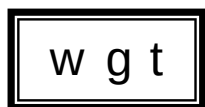


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3. Smith Chart

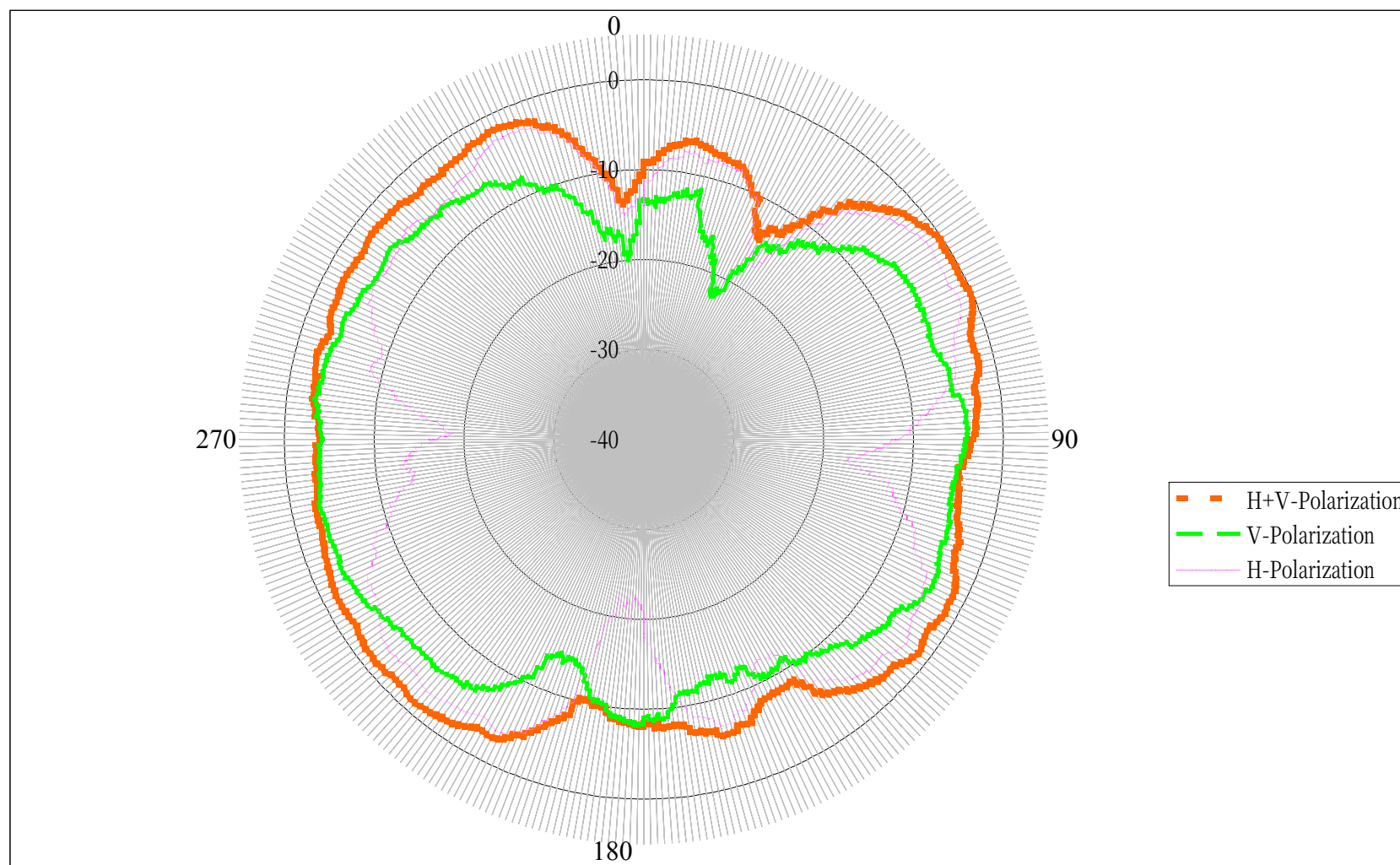




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4. Radiation Pattern of XY Plane(Azimuth)-2.45GHz

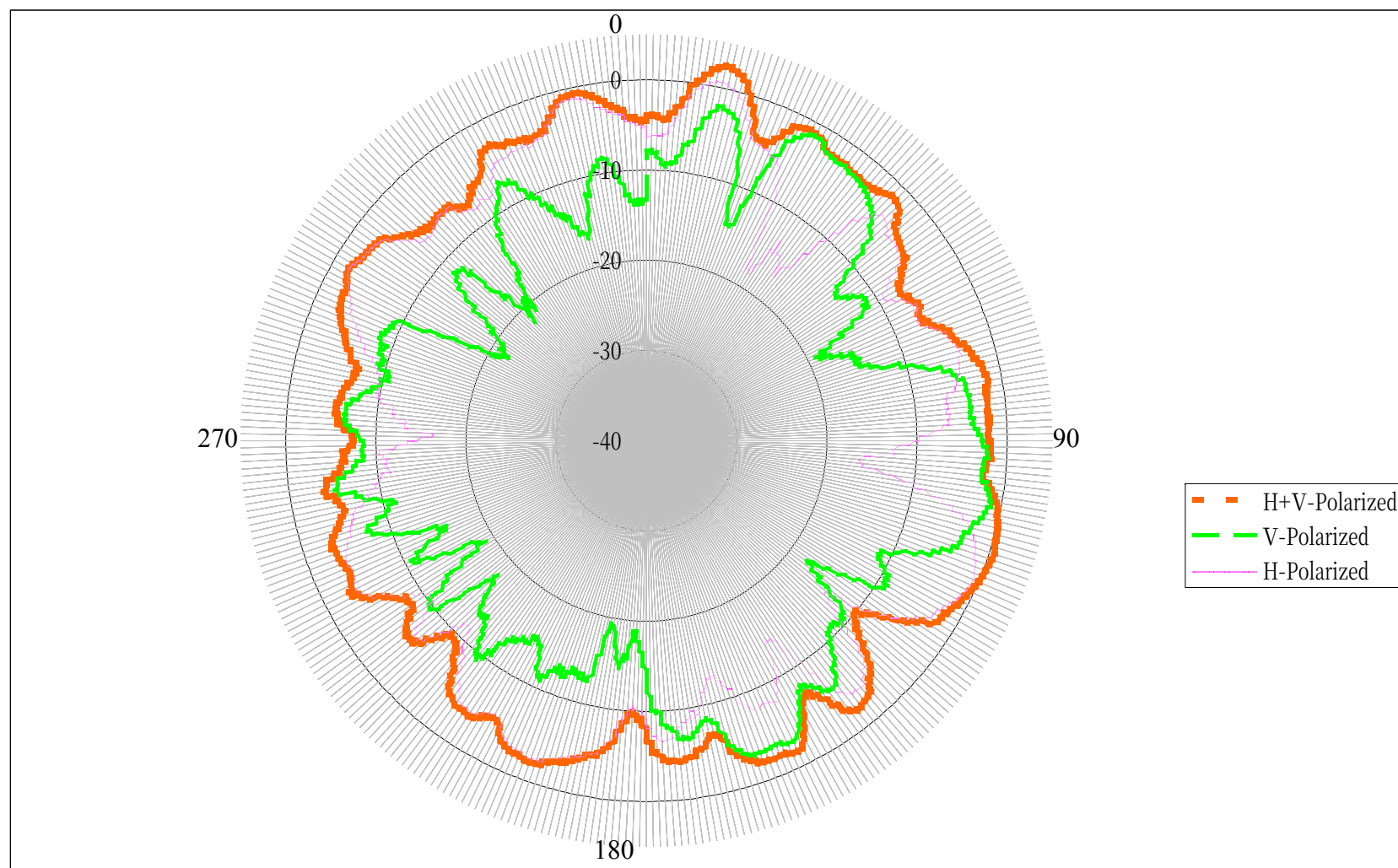




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5. Radiation Pattern of XY Plane(Azimuth)-5.25GHz





6. Peak Gain and Average Gain

Antenna	Gain of XY Plane(Azimuth)		
	Polarization		2.45GHz-R
R15B	V	Peak	-3.13
		Average	-6.68
	H	Peak	-1.48
		Average	-6.30
	H+V	Peak	-0.19
		Average	-3.48

Antenna	Gain of XY Plane(Azimuth)		
	Polarization		5.25GHz-R
R15B	V	Peak	-1.14
		Average	-7.43
	H	Peak	0.61
		Average	-5.38
	H+V	Peak	2.45
		Average	-3.28