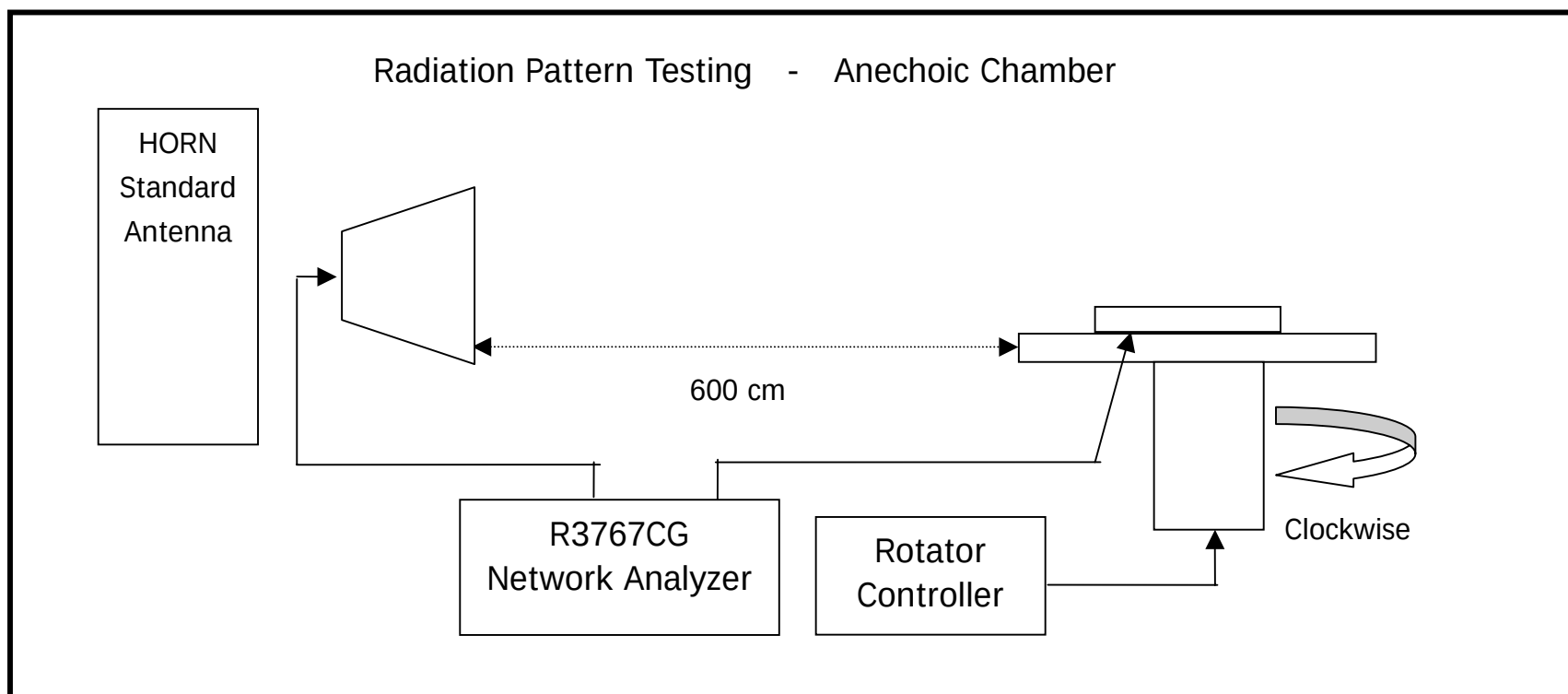




I Antenna Testing Conditions:

1. Testing set up:

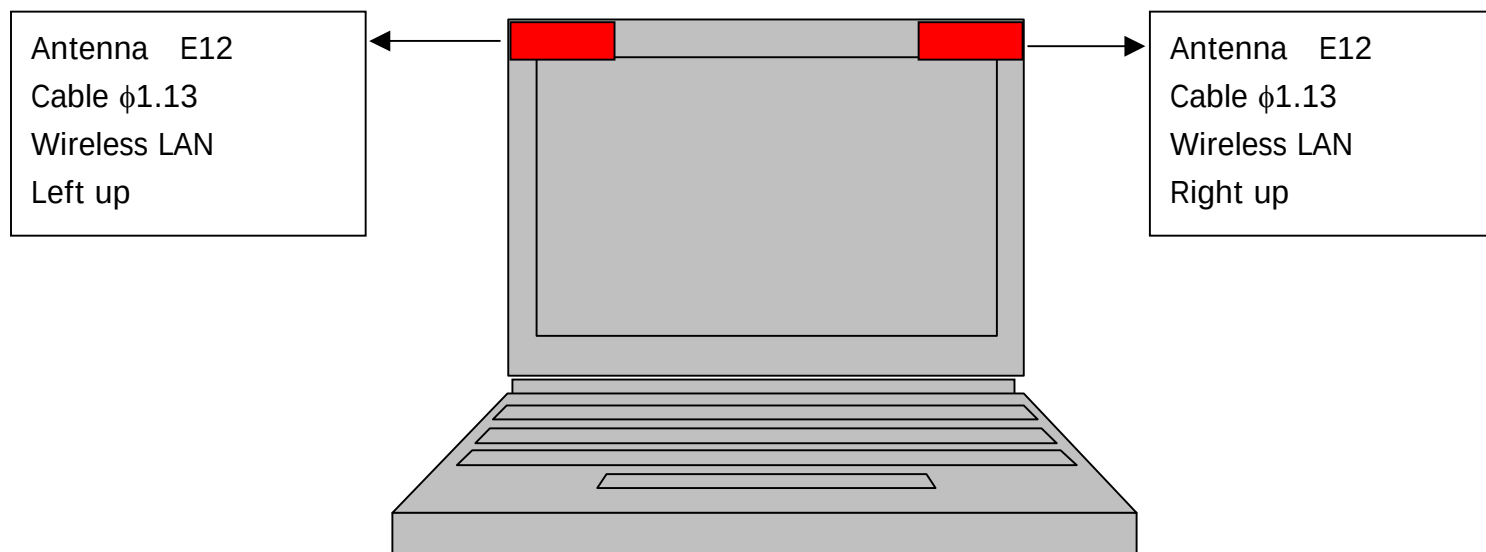




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2. Mechanical dimensions





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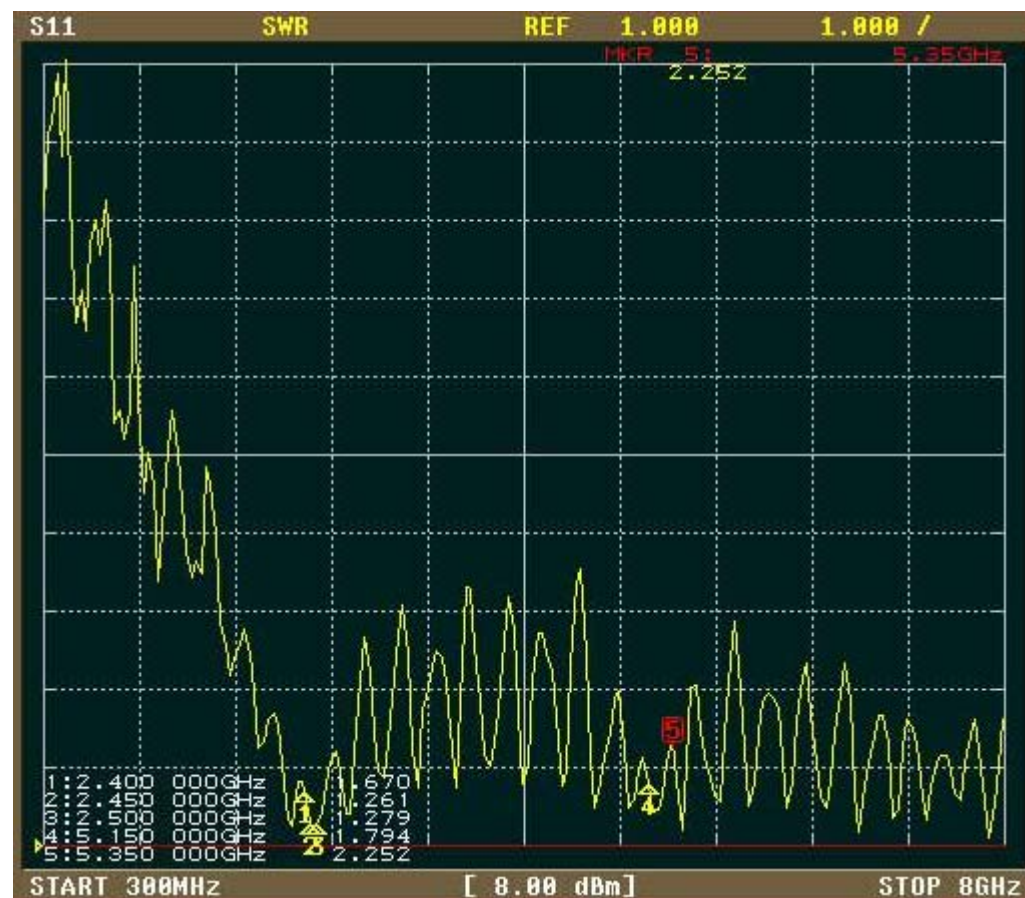
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II Test results-Left

Antenna	Application	Cable dia. Φ mm
E12	Wireless	1.13

1.VSWR

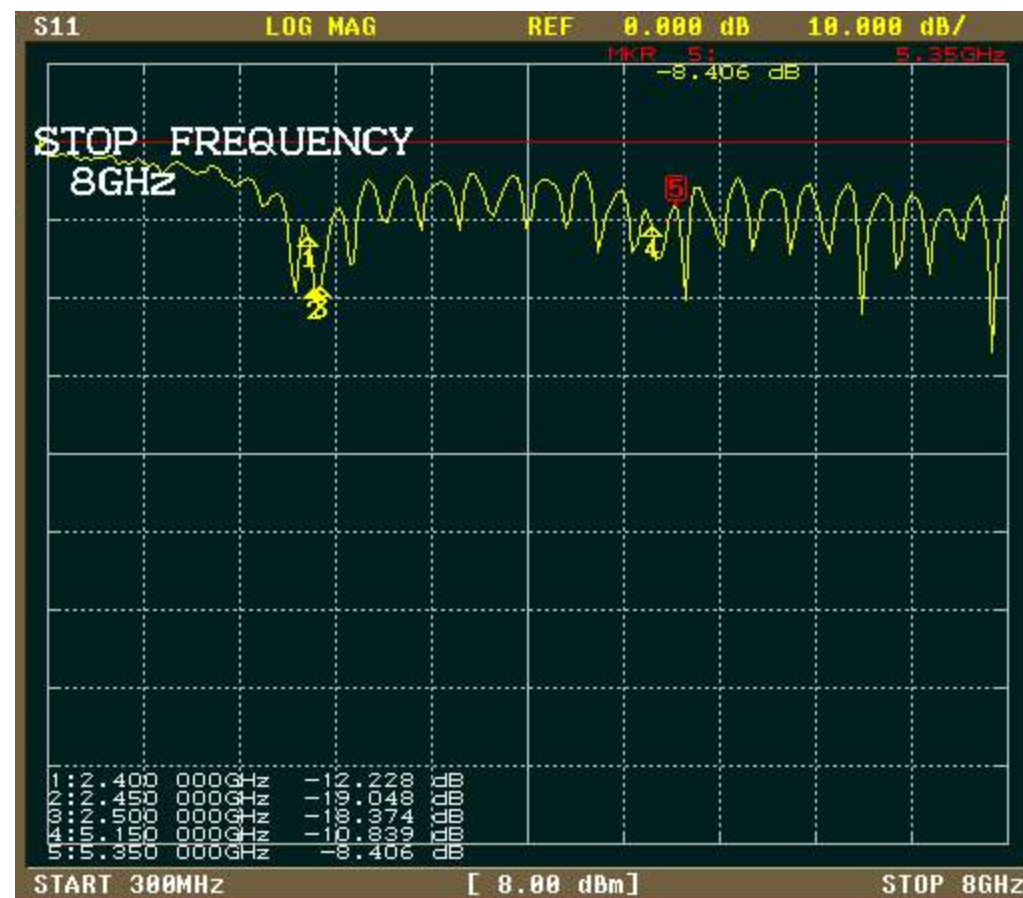
Antenna	Center freq. @MHz	BW @MHz	VSWR		
			2.4GHz	2.45GHz	2.5GHz
E12	2450		1.16	1.26	1.27





2. Return Loss

Antenna	Center freq. @MHz	BW @MHz	Return Loss		
			2.4GHz	2.45GHz	2.5GHz
E12	2450		-12.22	-19.04	-18.37

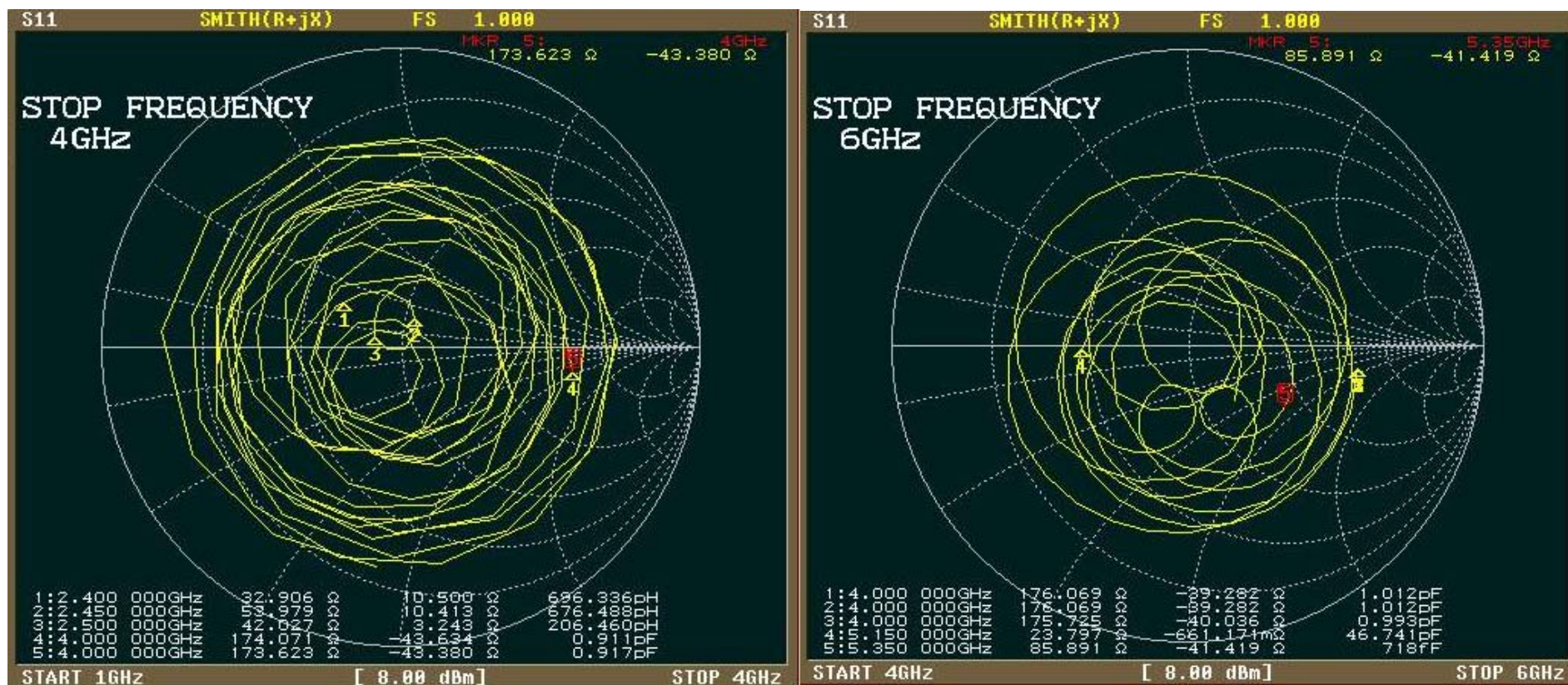




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3. Smith Chart

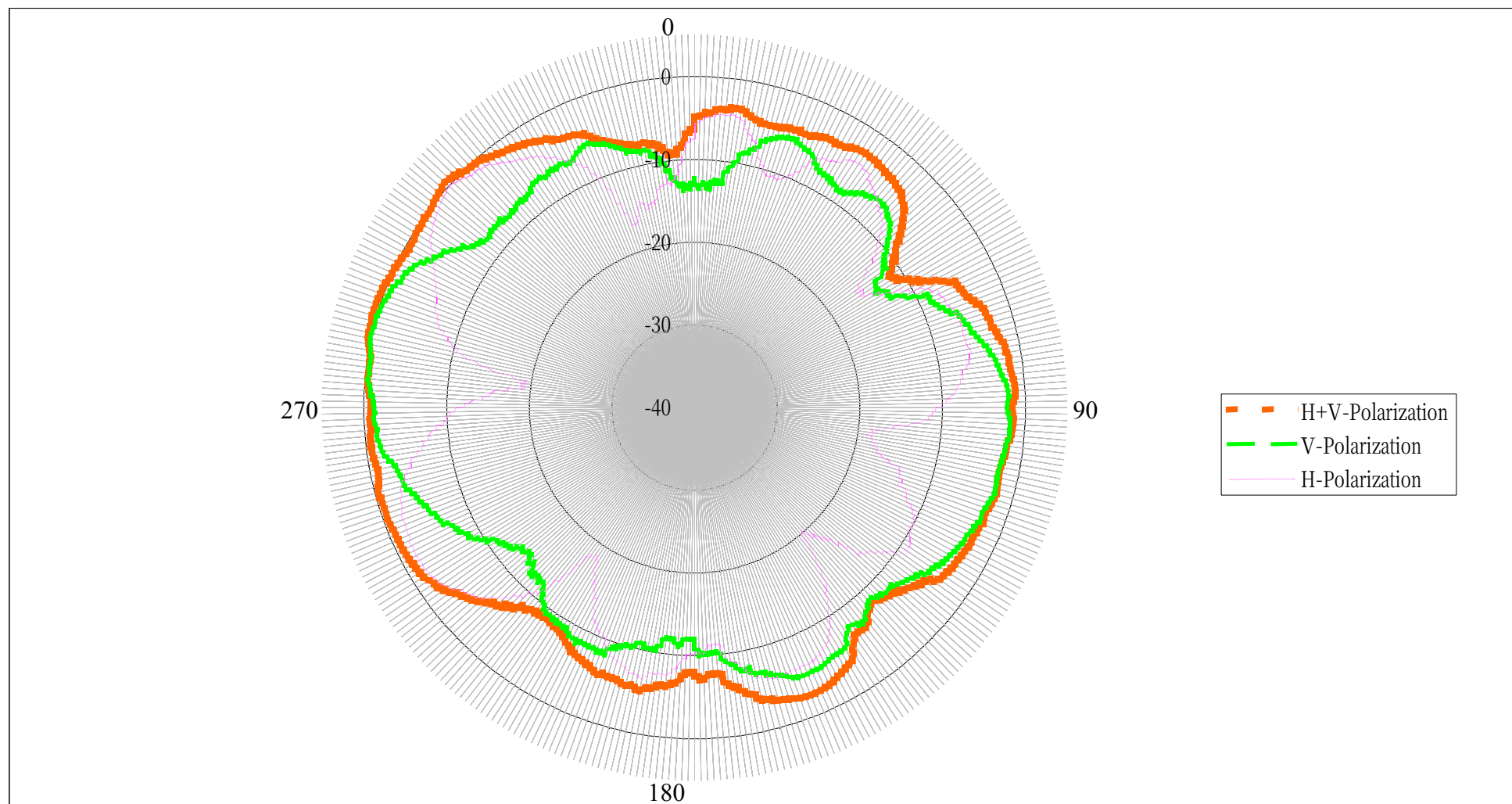




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4. Radiation Pattern of XY Plane(Azimuth)-2.45GHz

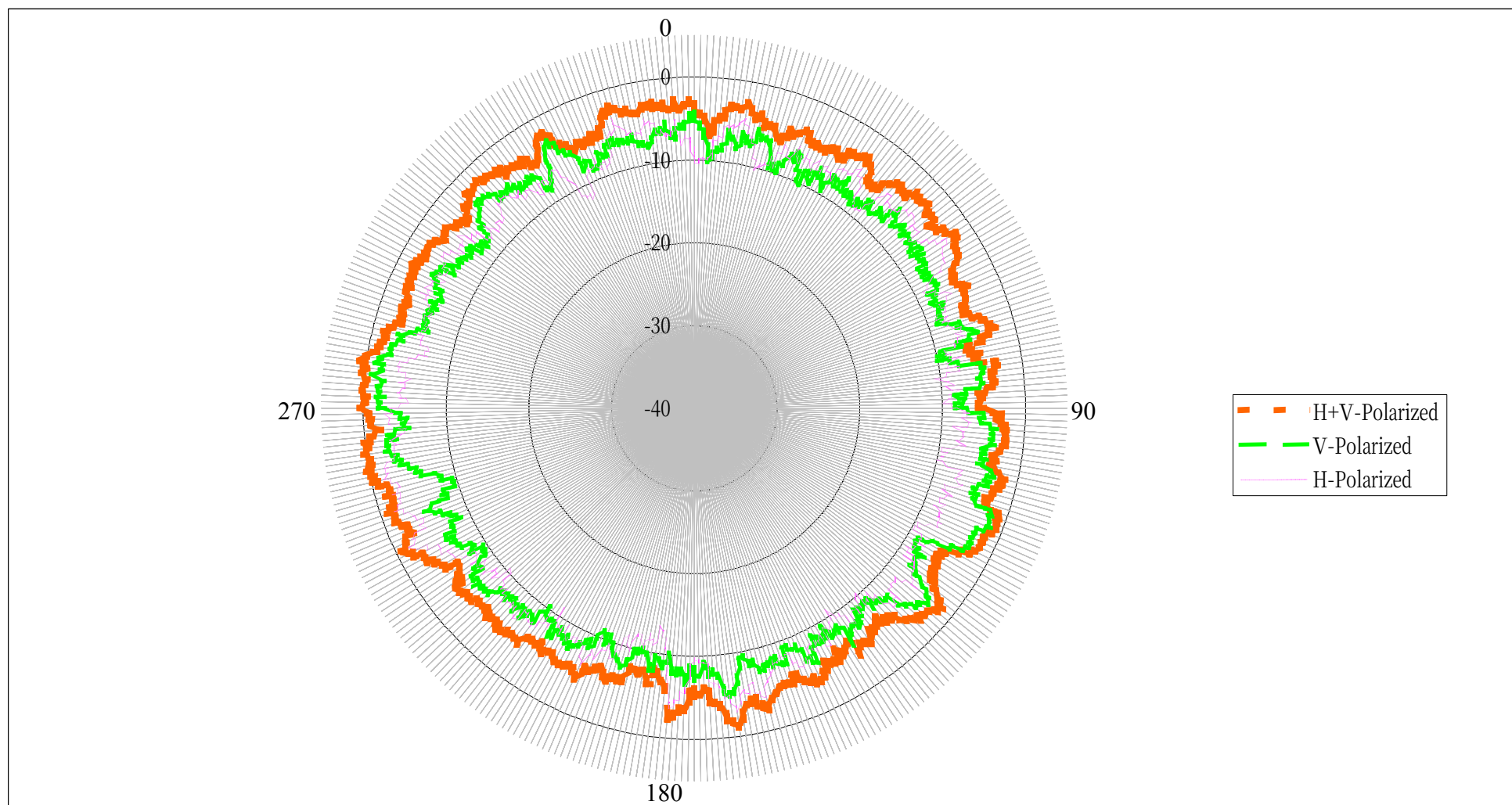




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5. Radiation Pattern of XY Plane(Azimuth)-5.25GHz



2003/10/17

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2003wgt2003wgt2003wgt2003



6. Peak Gain and Average Gain

Antenna	Gain of XY Plane(Azimuth)		
	Polariztion		2.45GHz-L
E12	V	Peak	0.13
		Average	-5.42
	H	Peak	-0.12
		Average	-6.70
	H+V	Peak	0.60
		Average	-3.00

Antenna	Gain of XY Plane(Azimuth)		
	Polariztion		5.25GHz-L
E12	V	Peak	-0.73
		Average	-6.24
	H	Peak	-1.52
		Average	-6.52
	H+V	Peak	0.83
		Average	-3.37

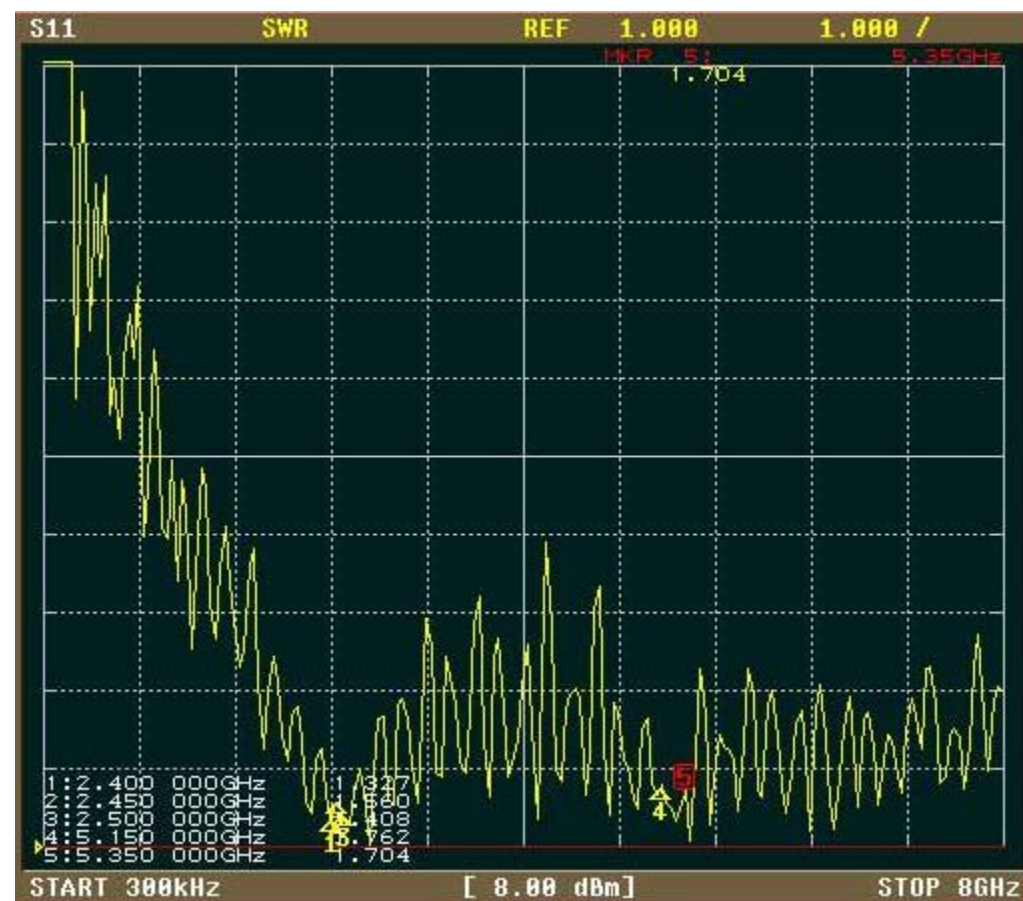


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7.VSWR -Right

Antenna	Center freg. @MHz	BW @MHz	VSWR		
			2.4GHz	2.45GHz	2.5GHz
E12	2450		1.32	1.56	1.40



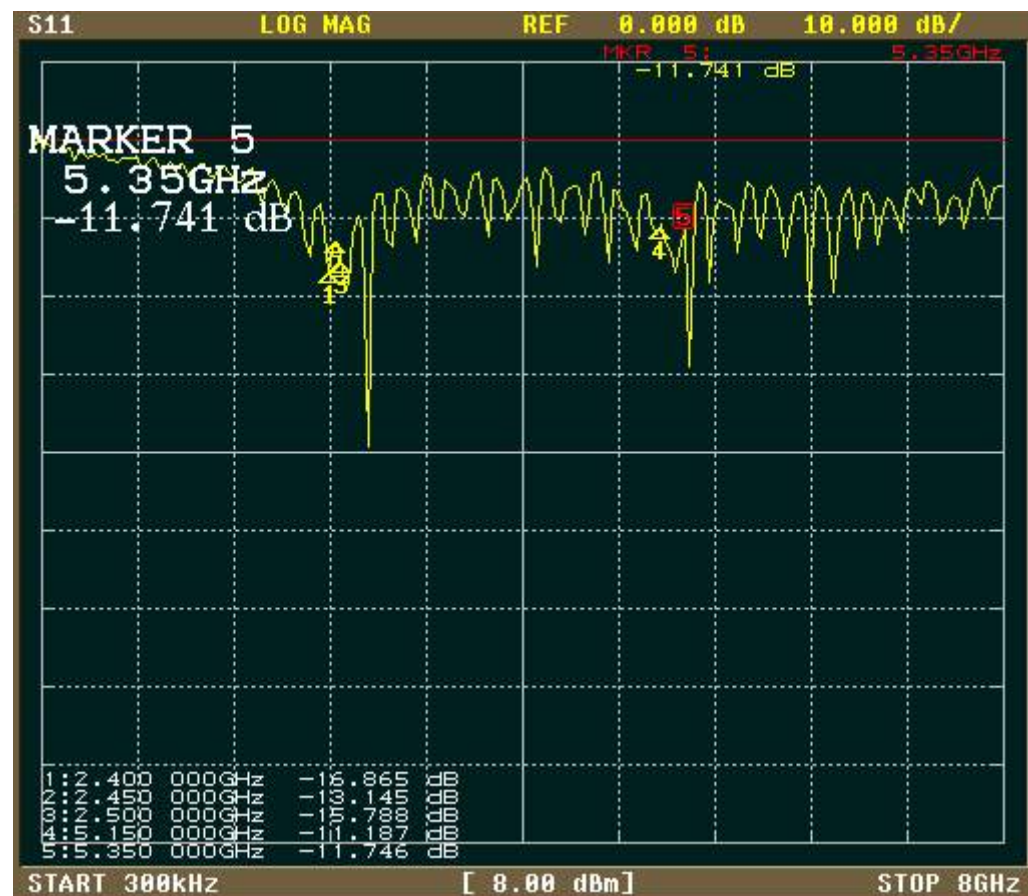


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8. Return Loss

Antenna	Center freq. @MHz	BW @MHz	Return Loss		
			2.4GHz	2.45GHz	2.5GHz
E12	2450		-16.86	-13.14	-15.78

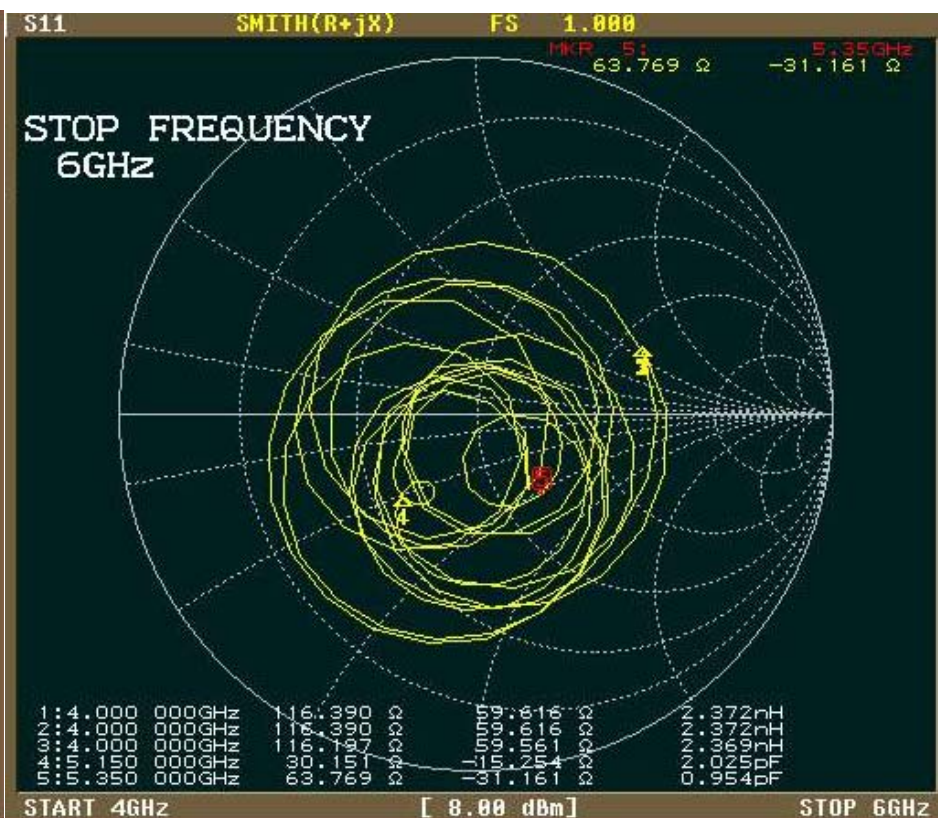




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9. Smith Chart

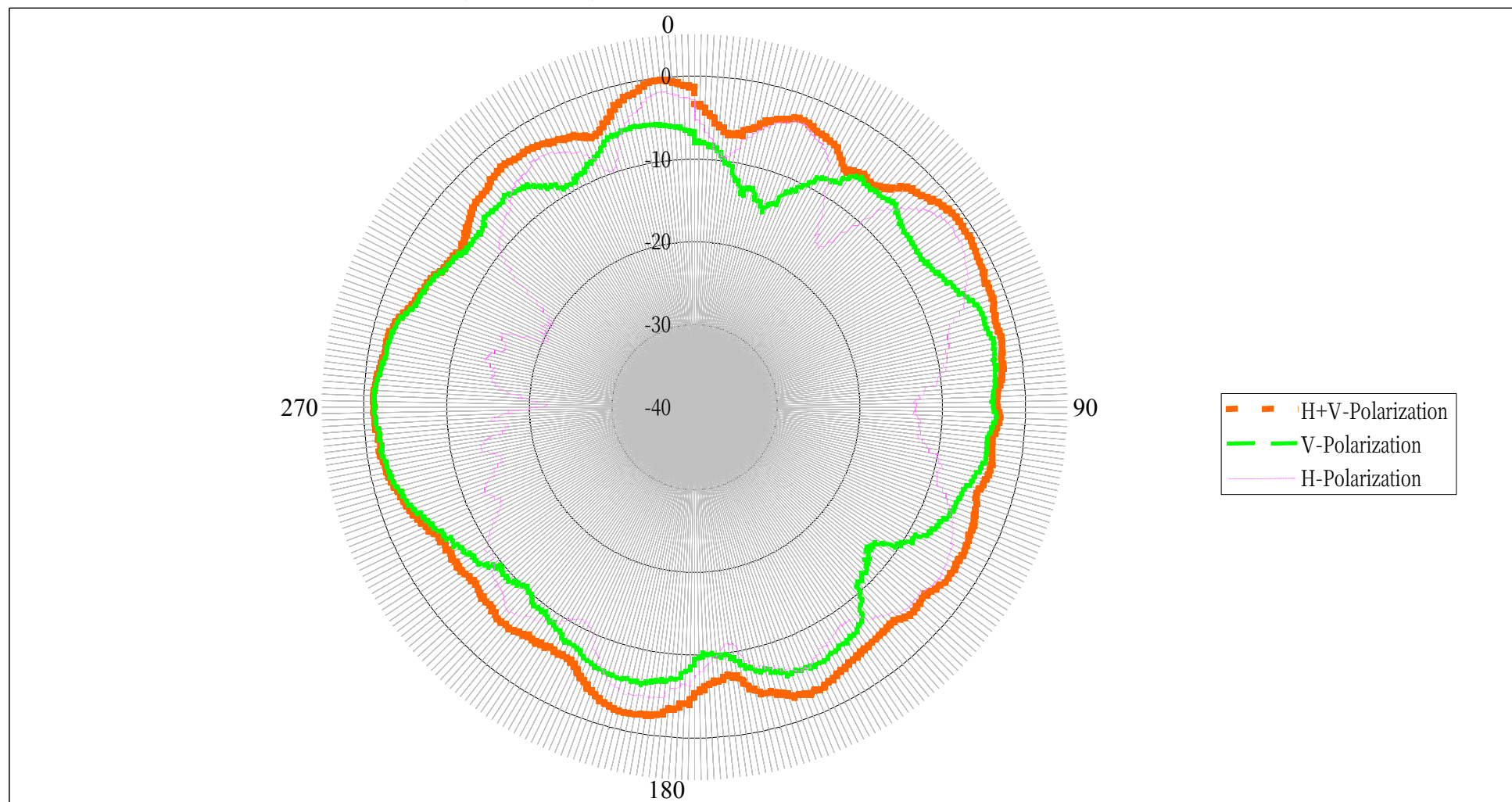




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10. Radiation Pattern of XY Plane(Azimuth)-2.45GHz

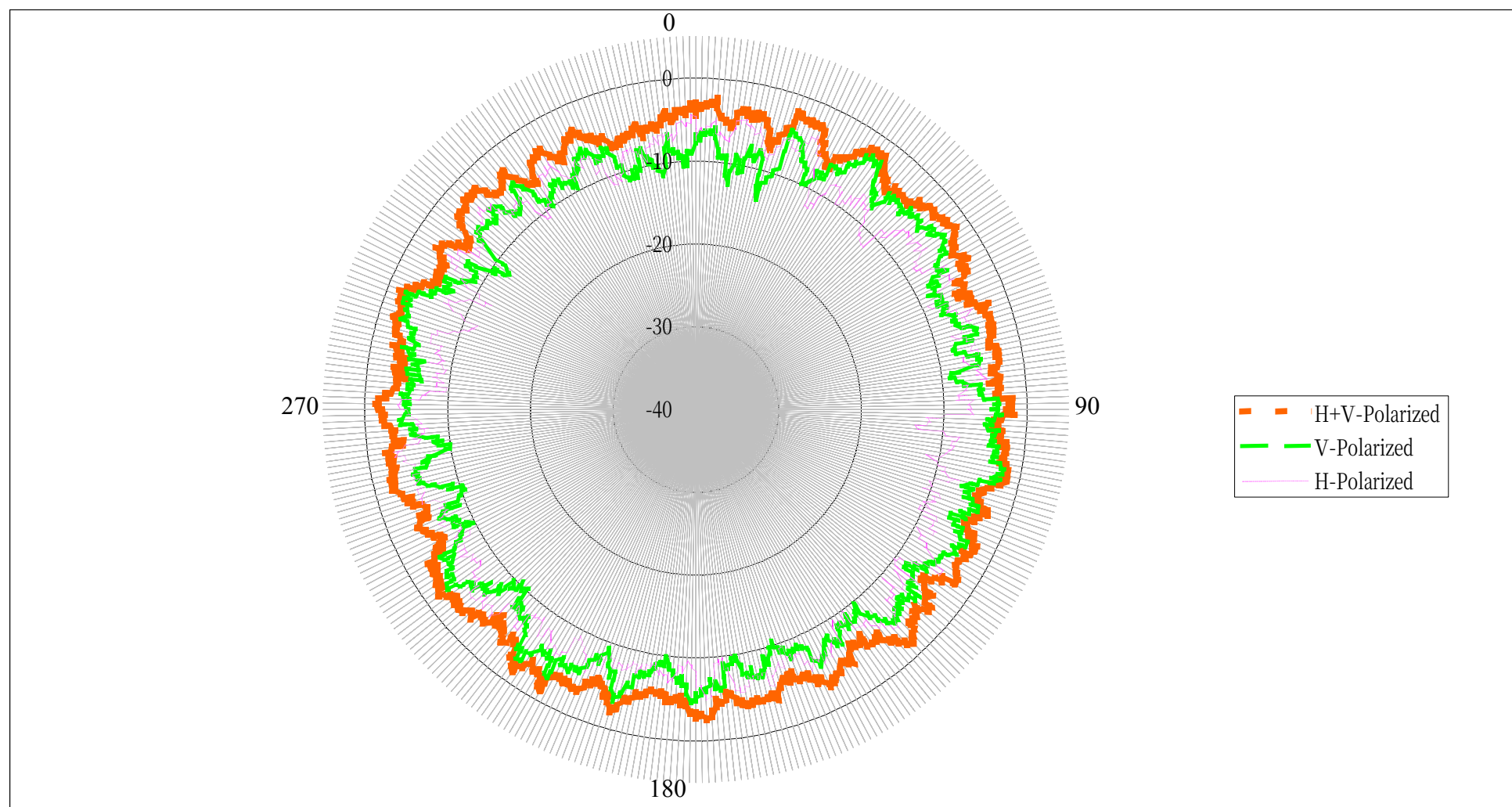




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11. Radiation Pattern of XY Plane(Azimuth)-5.25GHz





12. Peak Gain and Average Gain

Antenna	Gain of XY Plane(Azimuth)		
	Polariztion		2.45GHz-R
E12	V	Peak	-1.17
		Average	-5.84
	H	Peak	-1.62
		Average	-7.00
	H+V	Peak	-0.19
		Average	-3.37

Antenna	Gain of XY Plane(Azimuth)		
	Polariztion		5.25GHz-R
E12	V	Peak	-2.01
		Average	-6.27
	H	Peak	-3.08
		Average	-7.13
	H+V	Peak	-1.22
		Average	-3.67