



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

X51

Antenna Test Report

RD Manager	Supervisor	RD engineer	Sales engineer
David	Johnson	Jason	Jerry

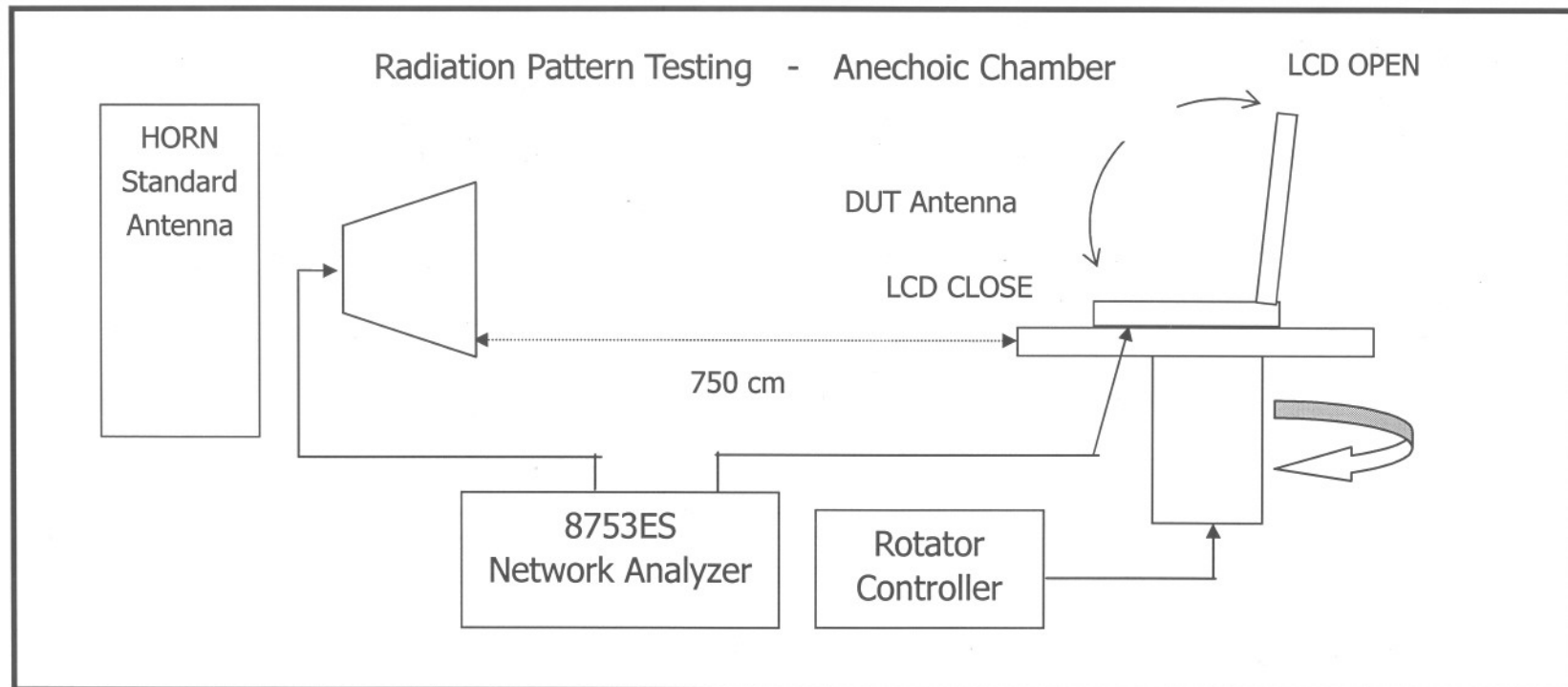


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I 、Antenna Testing Conditions:

1. Testing set up:

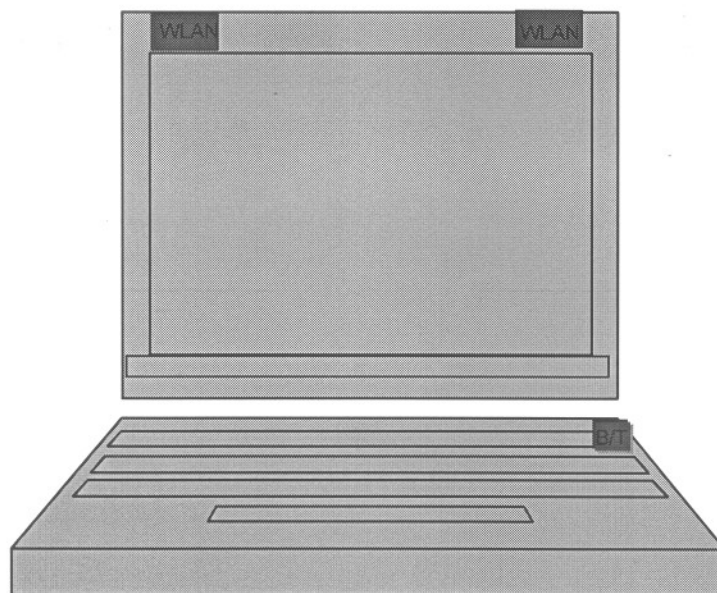




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2. Mechanical dimensions





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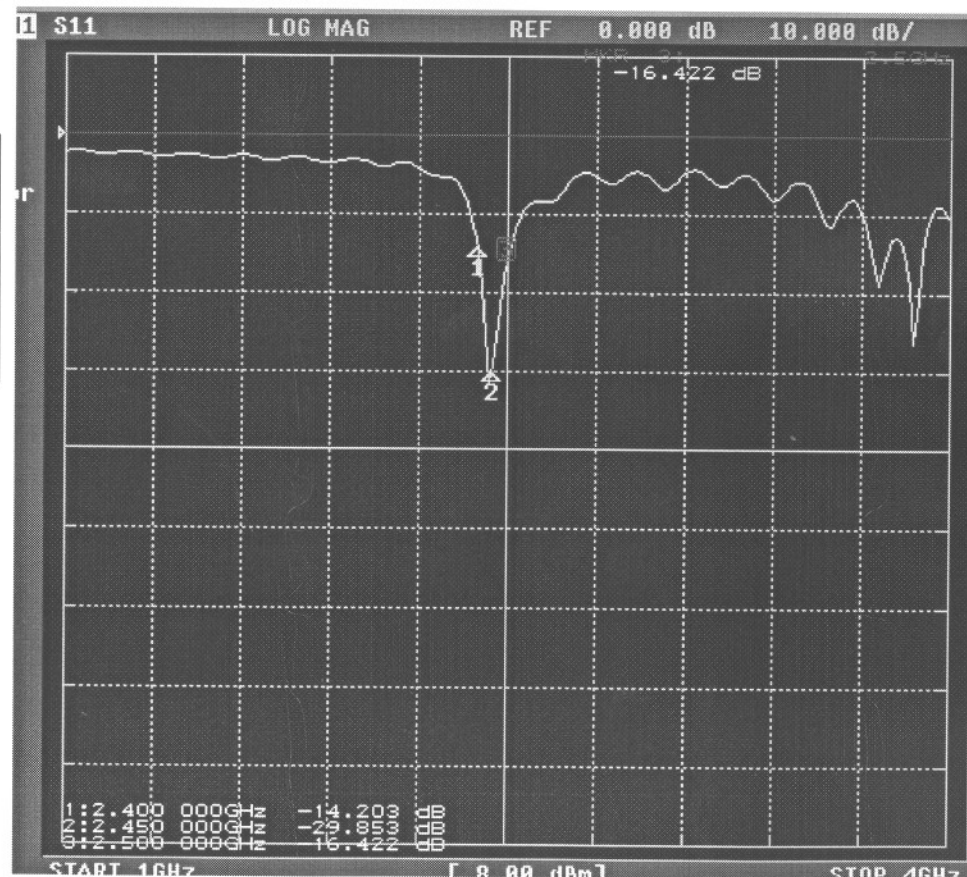
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V Test results

Antenna	Application	Placement	Cable dia. Φ mm
<u>X51</u>	<u>Bluetooth</u>	<u>Right intermediate</u>	<u>1.13</u>

1. 2.4-2.5GHz Return Loss

Antenna	Center freq. @MHz	BW @MHz	Return Loss		
			2.4GHz	2.45GHz	2.5GHz
X51	2450		-14.20	-29.85	-16.42



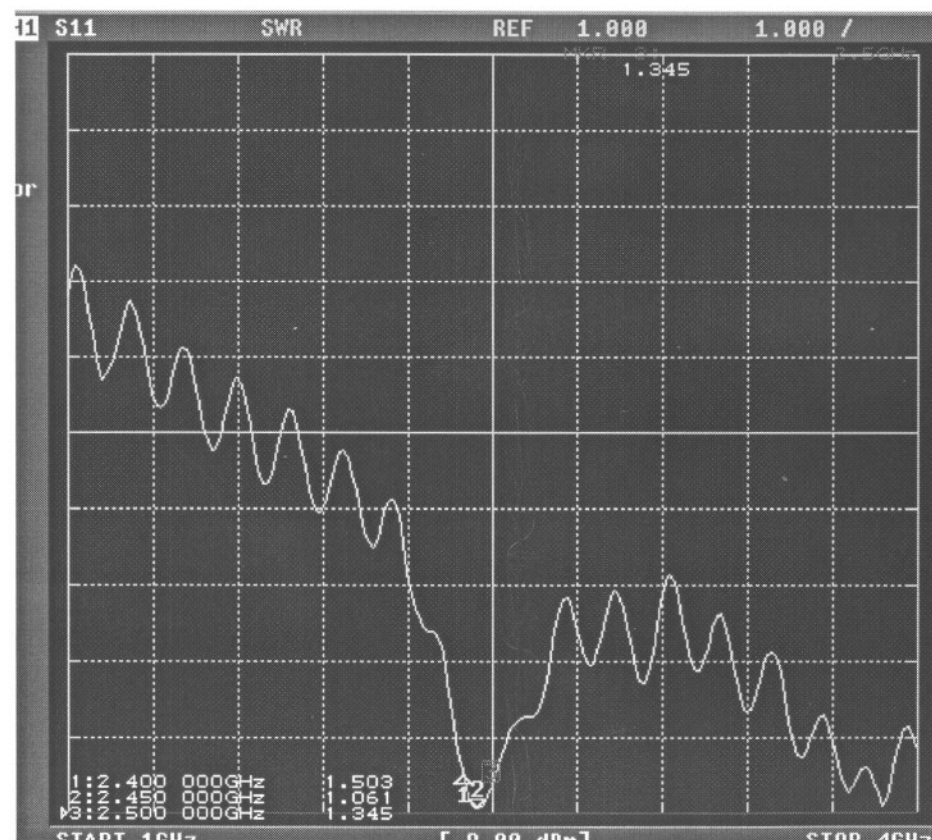


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2. 2.4-2.5GHZ VSWR

Antenna	Center freq. @MHz	BW @MHz	VSWR		
			2.4GHz	2.45GHz	2.5GHz
X51	2450		1.50	1.06	1.34

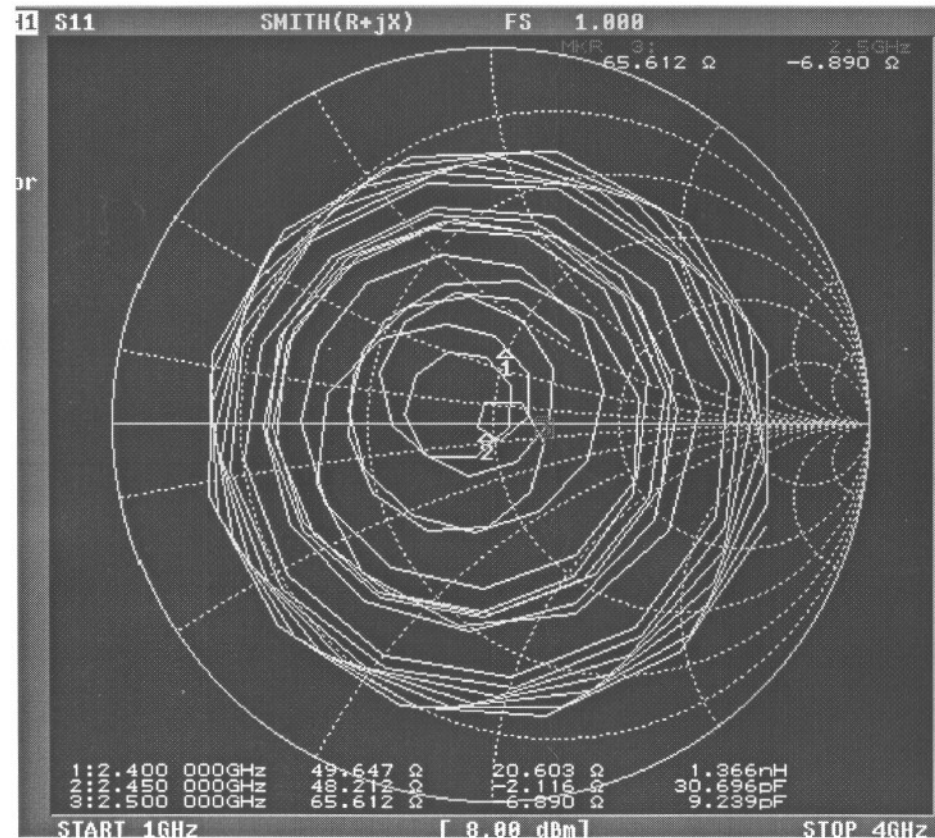




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3. Smith Chart

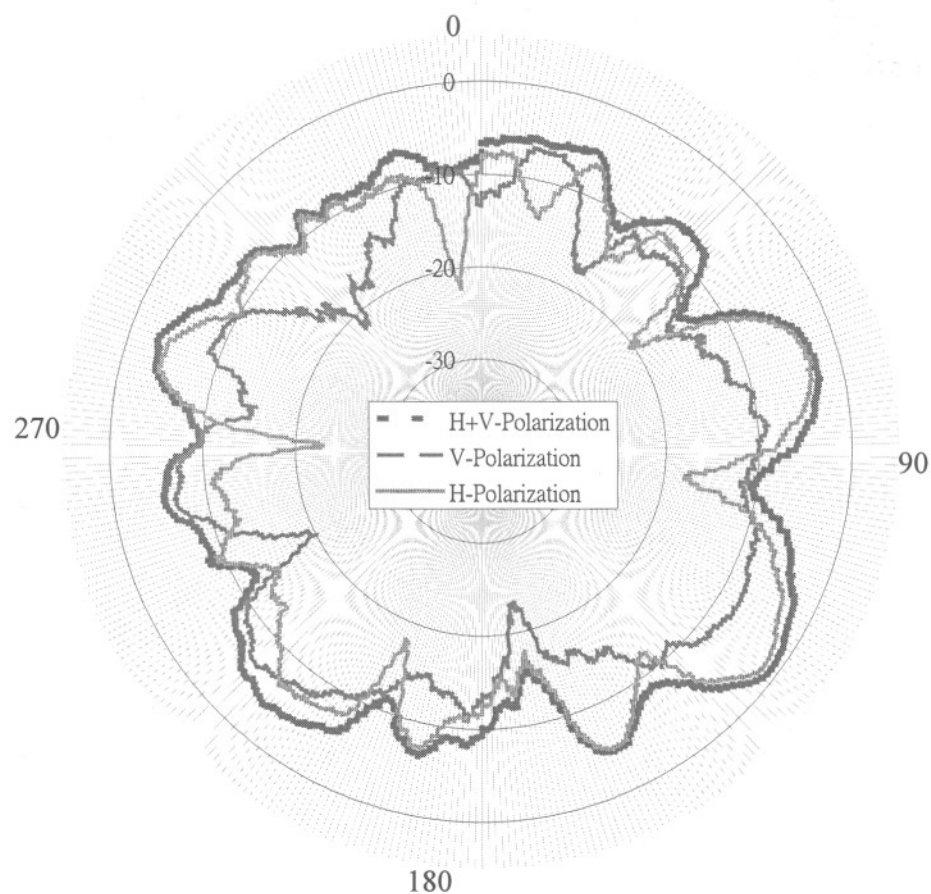




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4. Radiation Pattern of XY Plane(Azimuth)-(Open)



Center Frequency	2450 MHz
Vertical peak Gain (dBi) ✓	-6.37
Vertical Average Gain (dBi)	-10.85
Vertical Min	-23.22
Horizontal peak Gain (dBi) ✓	-1.61
Horizontal Average Gain (dBi)	-8.17
Horizontal Min	-22.97
Hori+Vert peak Gain (dBi) ✓	-0.78
Hori+Vert Average Gain (dBi)	-6.29
Hori+Vert Min	-16.51