

Preliminary Specification
Dipole Antenna
- RFDPA870900SBLB8G1 for Single Band 2.4/5.x GHz Application
ELECTRICAL CHARACTERISTICS

Item	Specification
Working Frequency Range	2.4 ~ 2.5 / 5.15 ~ 5.85 GHz (Note-1)
Gain	2.4 ~ 2.5 GHz : 2.20 dBi 5.15 ~ 5.85GHz : 3.12 dBi
Return Loss	-10dB(Max)
VSWR	2 max.
Polarization	Linear
Radiation Pattern	Omni-directional
Impedance	50Ω

*Note 1. Central Frequency should be defined after customers' application approval.

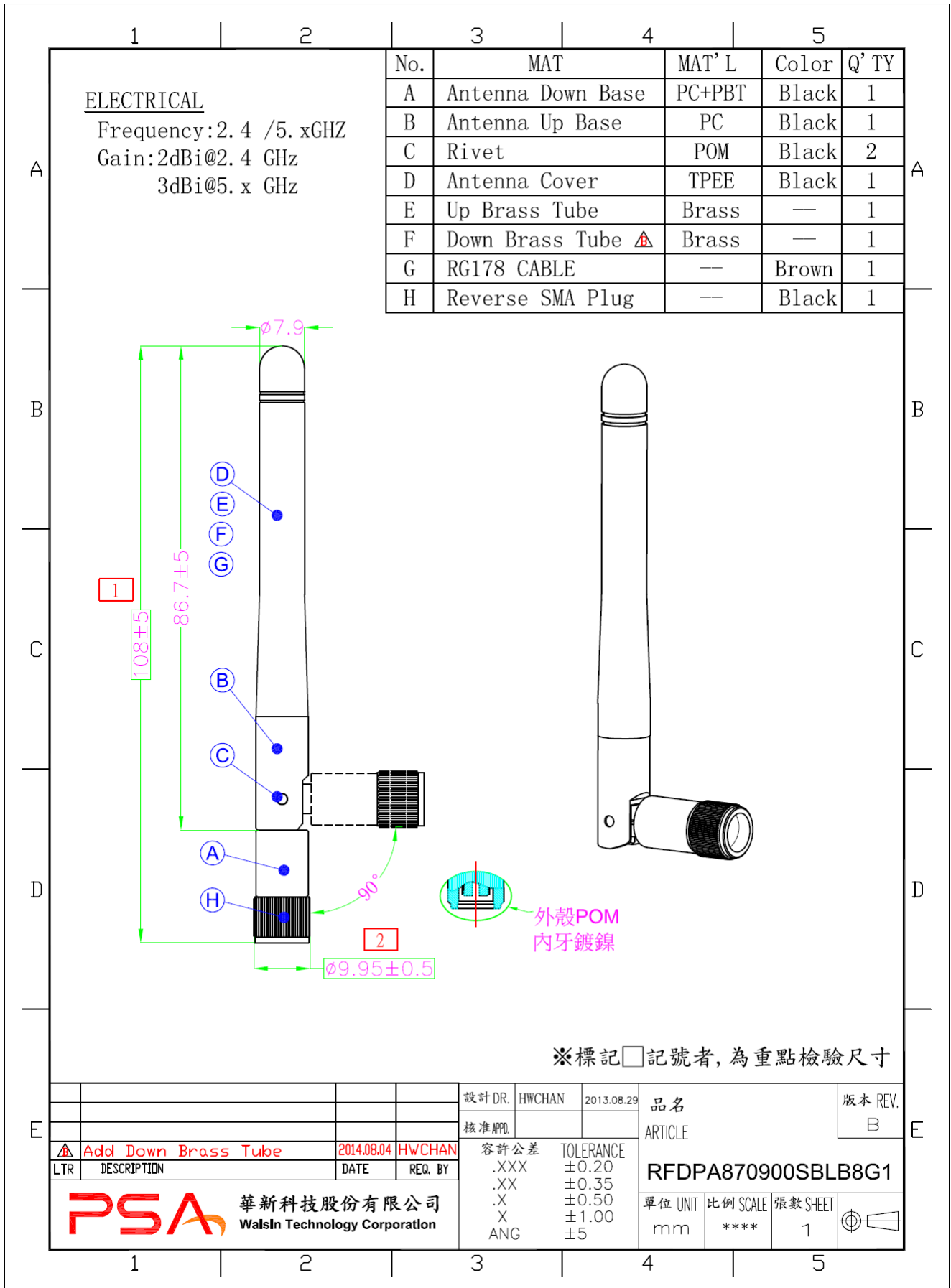
MATERIAL TABLE

Items	Description
Cable	RG178(Brown)
Antenna Cover	TPEE
Antenna Base	PC/PBT
Connector	Reverse SMA Plug
Color	Black
Brass Tube	Brass
Spring	Phosphor Bronze
Tube	CB-HFT

ORDERING RULE

RF	DPA	8709	00	S	B	L	B	8	G1
Type Code	Product Code	Dipole Dimension (Unit: mm)	Cable Length (unit: cm)	Connector Brand	Type of Connector	Application	Project status	Wire Diameter	Project
Walsin RF Device	DPA: Dipole Antenna	Per 2 digits of length, width e.g.: 8709 Length 86.7mm, Width 9.95mm	2 digits for cable length e.g.: 00 None Cable	A: N C:MCX D:IPEX III E: IPEX IV F: IPEX A13 H: Hirose I: IPEX M: MMCX S: SMA T: TNC U:MURATA N: None	A: Reverse Female B: Reverse Male F: Female M: Male N: None	0: 0GHz 3: 3GHz 5: 5 GHz 6: 6GHz A: 2.4GHz ISM band B: GSM 900/1800 dual band G: GPS band L: 2.4/5.2/5.8 GHz tri-band N: NFC T:LTE band W: WCDMA band	B: MP T:During Test X: Pile Run	0:None 1:φ0.81 3:φ1.13 6:RG316 7:φ1.37 8:RG178	01~99 series number

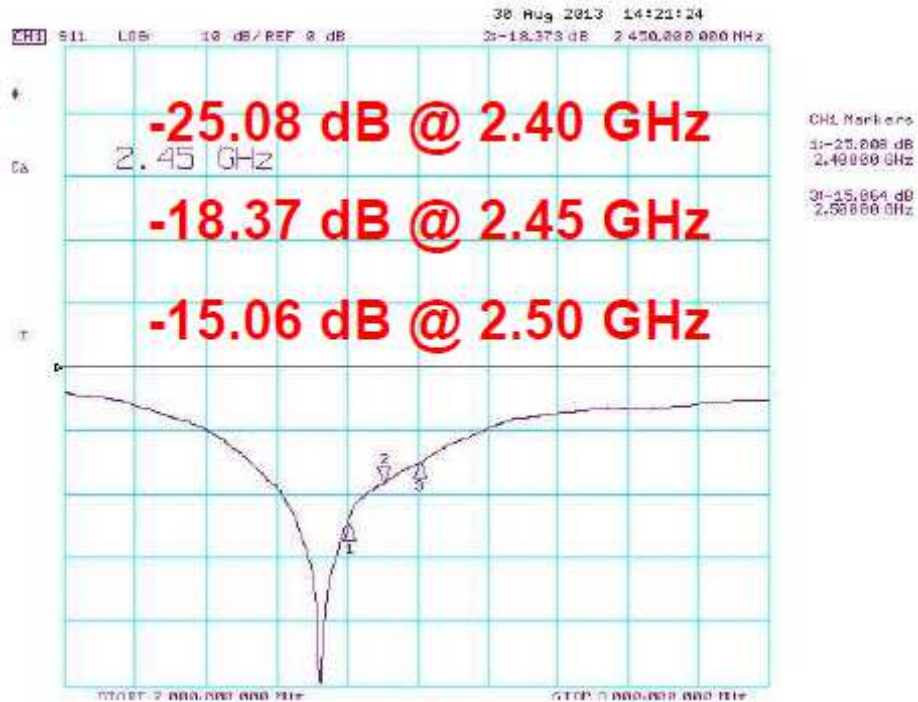
DIMENSIONS



Test Report

ELECTRICAL CHARACTERISTICS

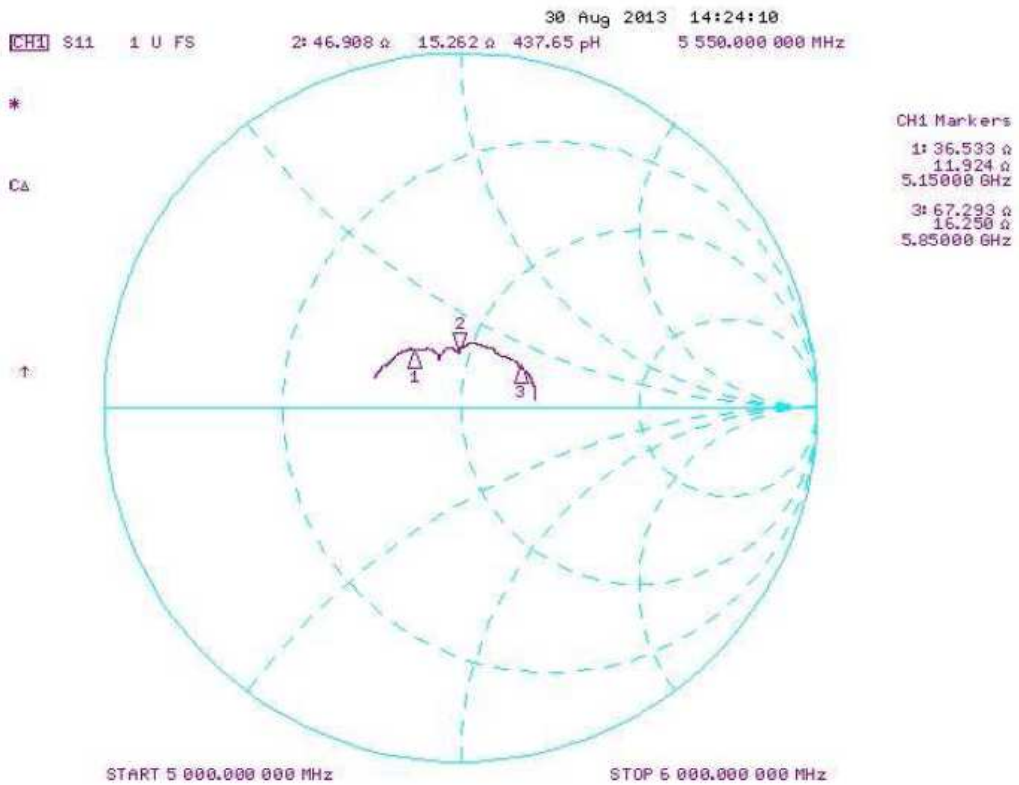
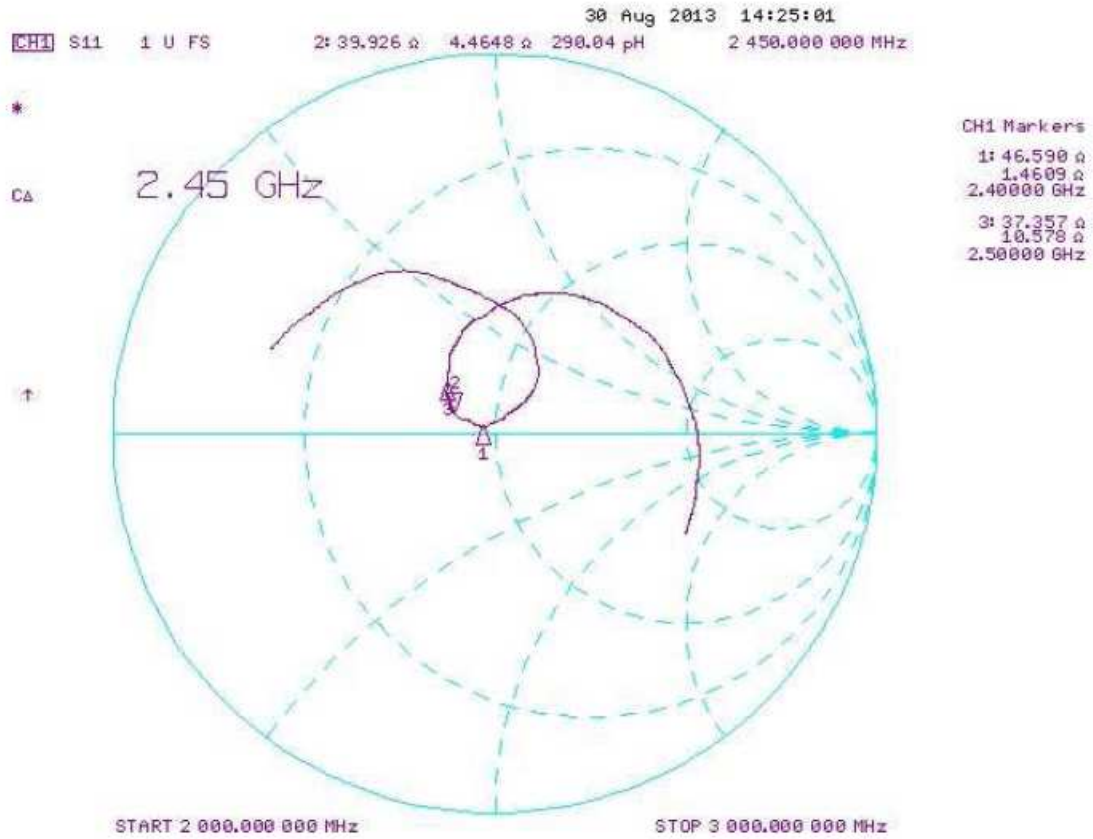
Return Loss



VSWR



Smith Chart



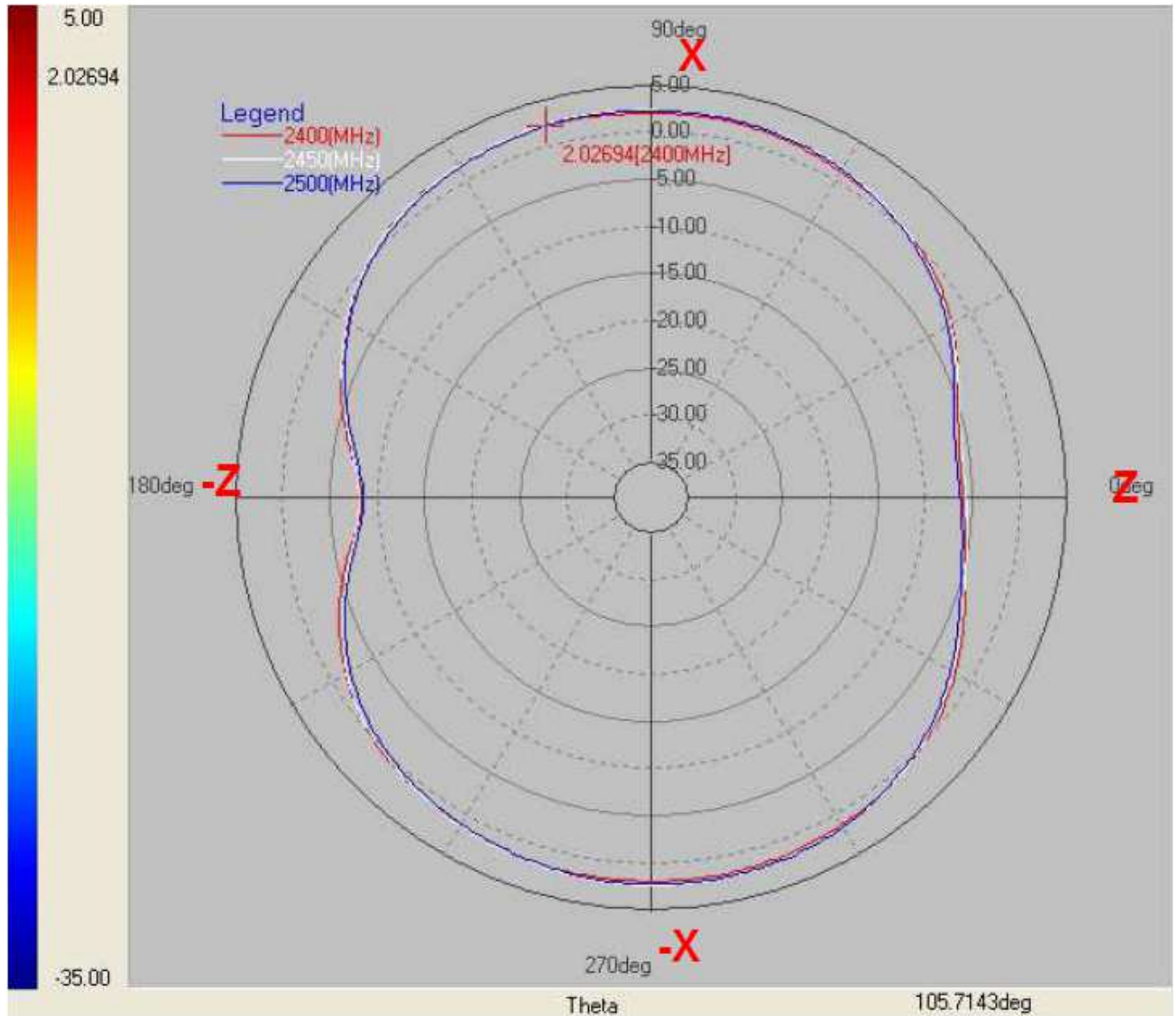
RADIATION PATTERN

2400~2500 MHz

X-Z Plane

Phi=0.00deg

Gain . dB



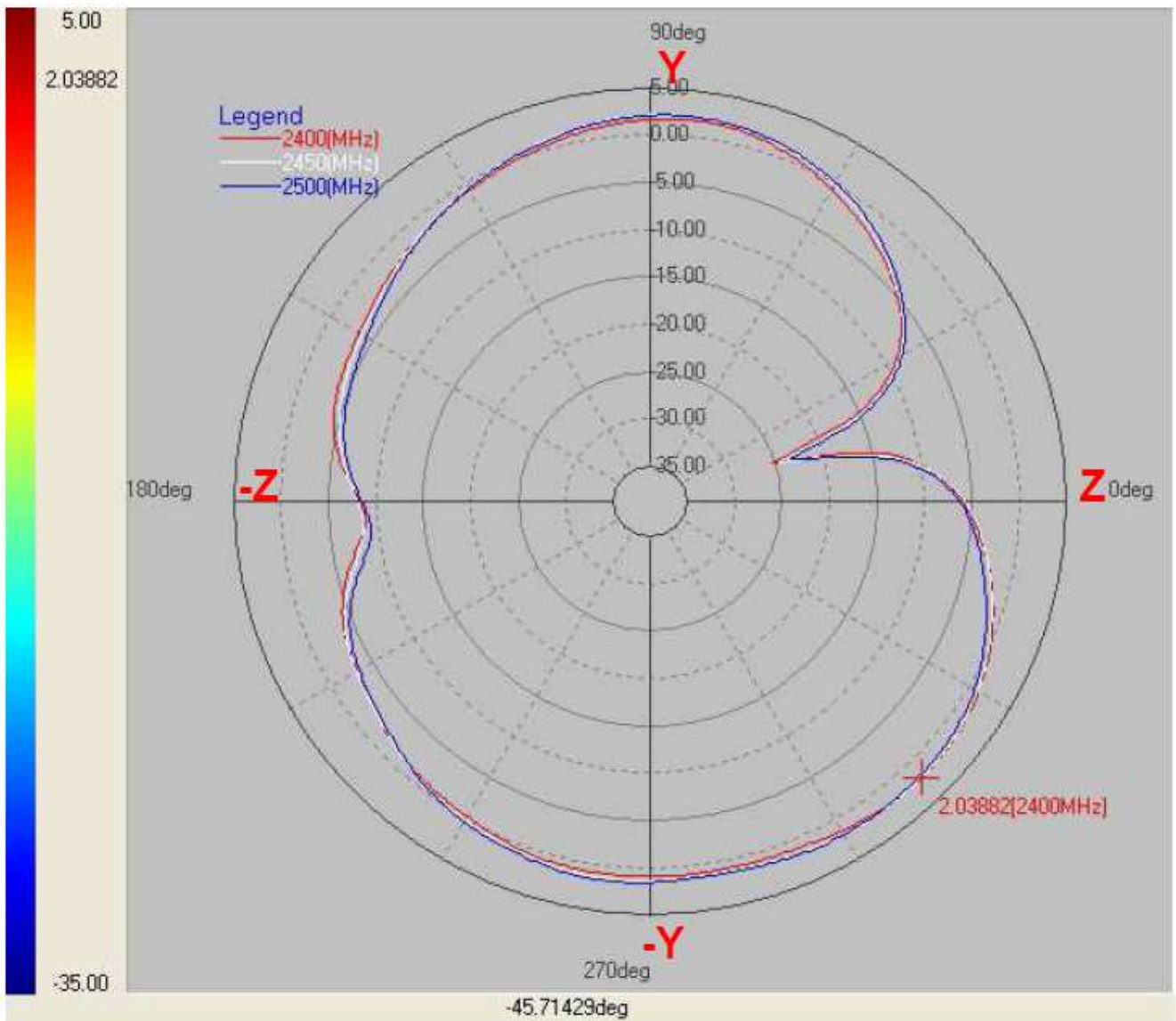
Layer	Max value	Min value	Average
2400(MHz)	2.03	-8.37	-0.17
2450(MHz)	2.20	-8.08	-0.04
2500(MHz)	2.12	-8.53	-0.21

2400~2500 MHz

Y-Z Plane

Phi=90.00deg

Gain . dB



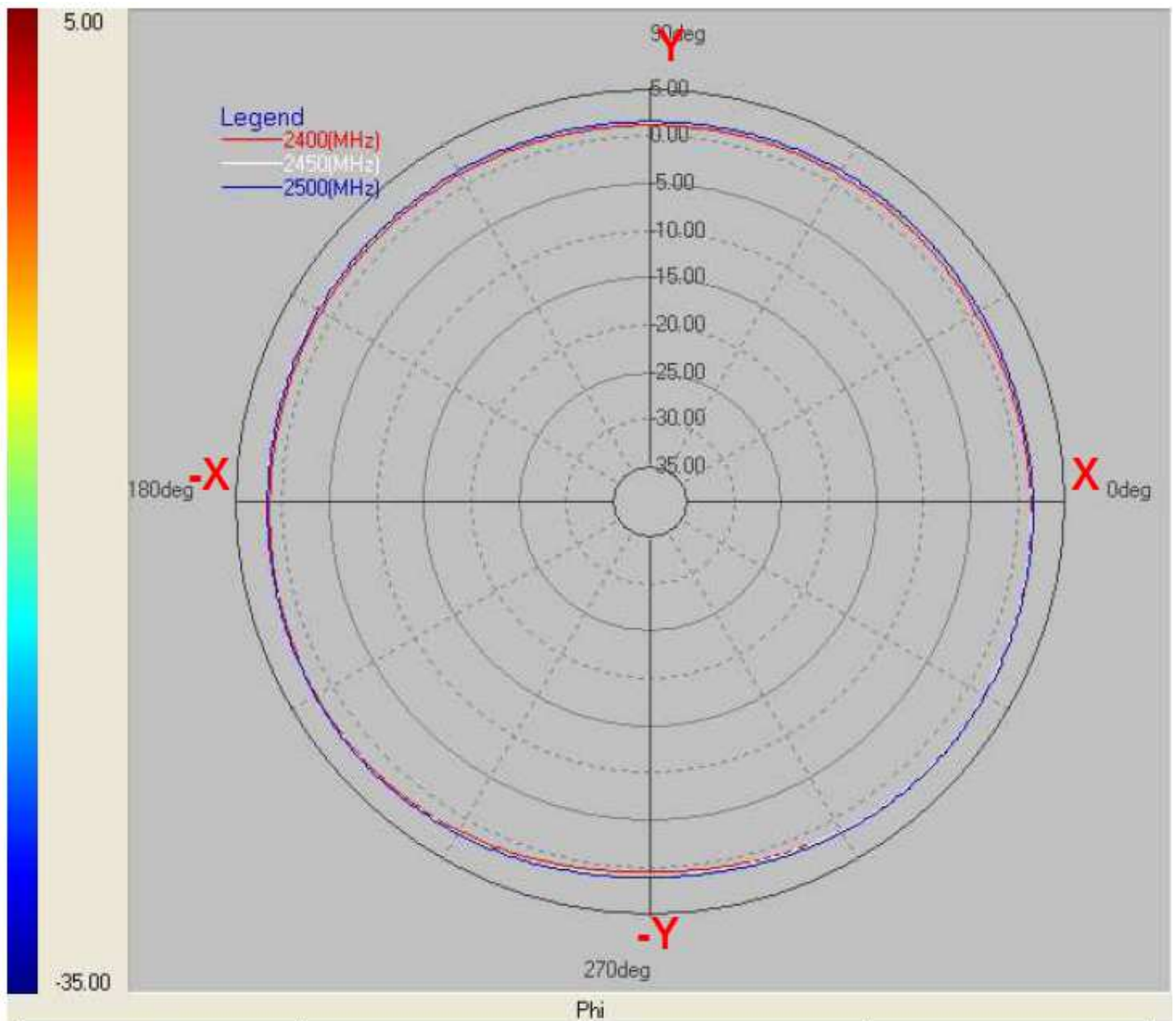
Layer	Max value	Min value	Average
2400(MHz)	2.04	-25.82	-1.07
2450(MHz)	2.02	-25.22	-0.82
2500(MHz)	2.01	-23.79	-1.07

2400~2500 MHz

X-Y Plane

Theta=90.00deg

Gain . dB



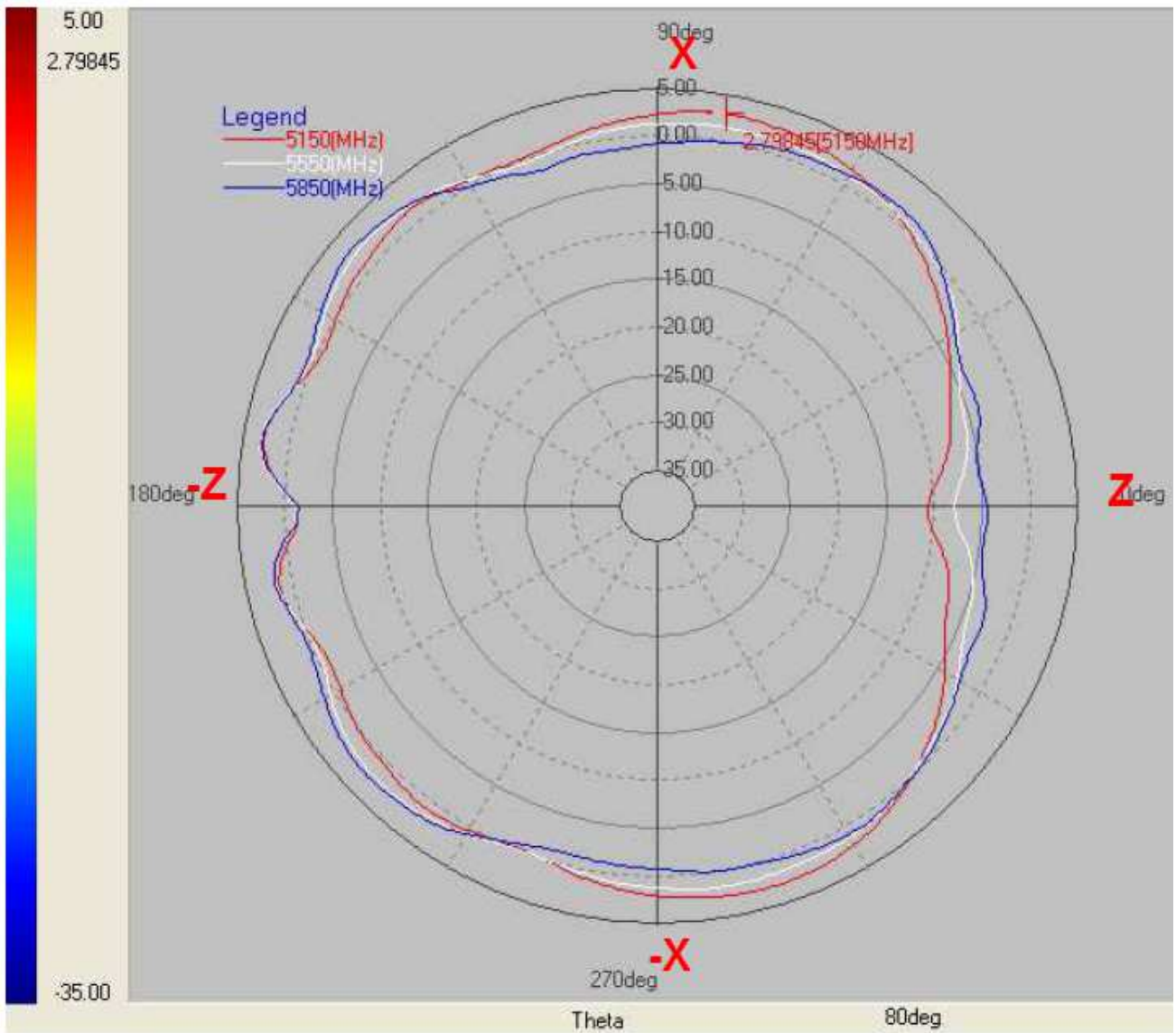
Layer	Max value	Min value	Average
2400(MHz)	2.10	0.35	1.32
2450(MHz)	2.08	0.65	1.55
2500(MHz)	2.13	0.91	1.60

5150~5850 MHz

X-Z Plane

Phi=0.00deg

Gain . dB



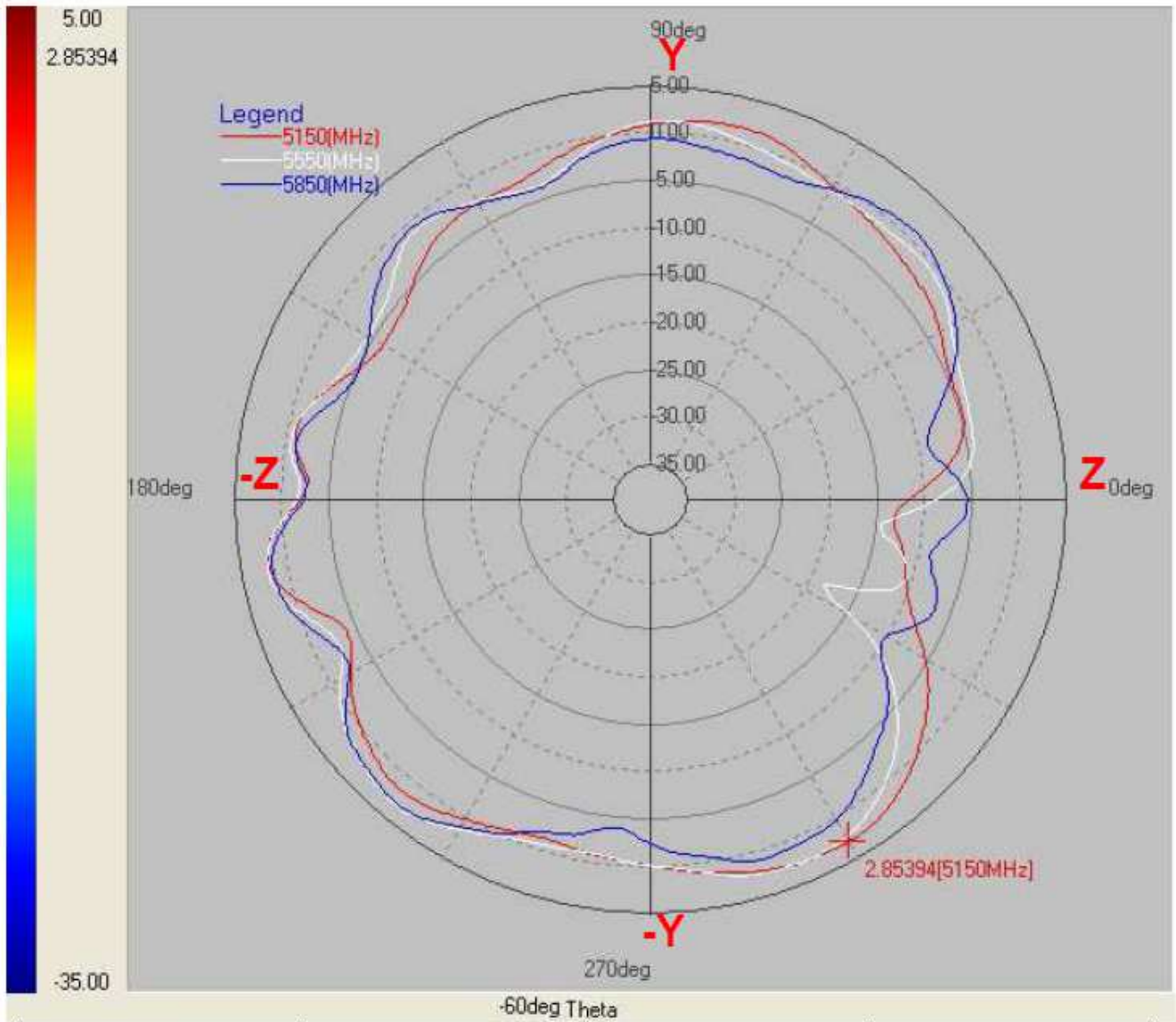
Layer	Max value	Min value	Average
5150MHz)	2.80	-10.65	0.29
5550(MHz)	3.05	-7.90	0.32
5850 (MHz)	2.93	-6.22	-0.90

5150~5850 MHz

Y-Z Plane

Phi=90.00deg

Gain . dB



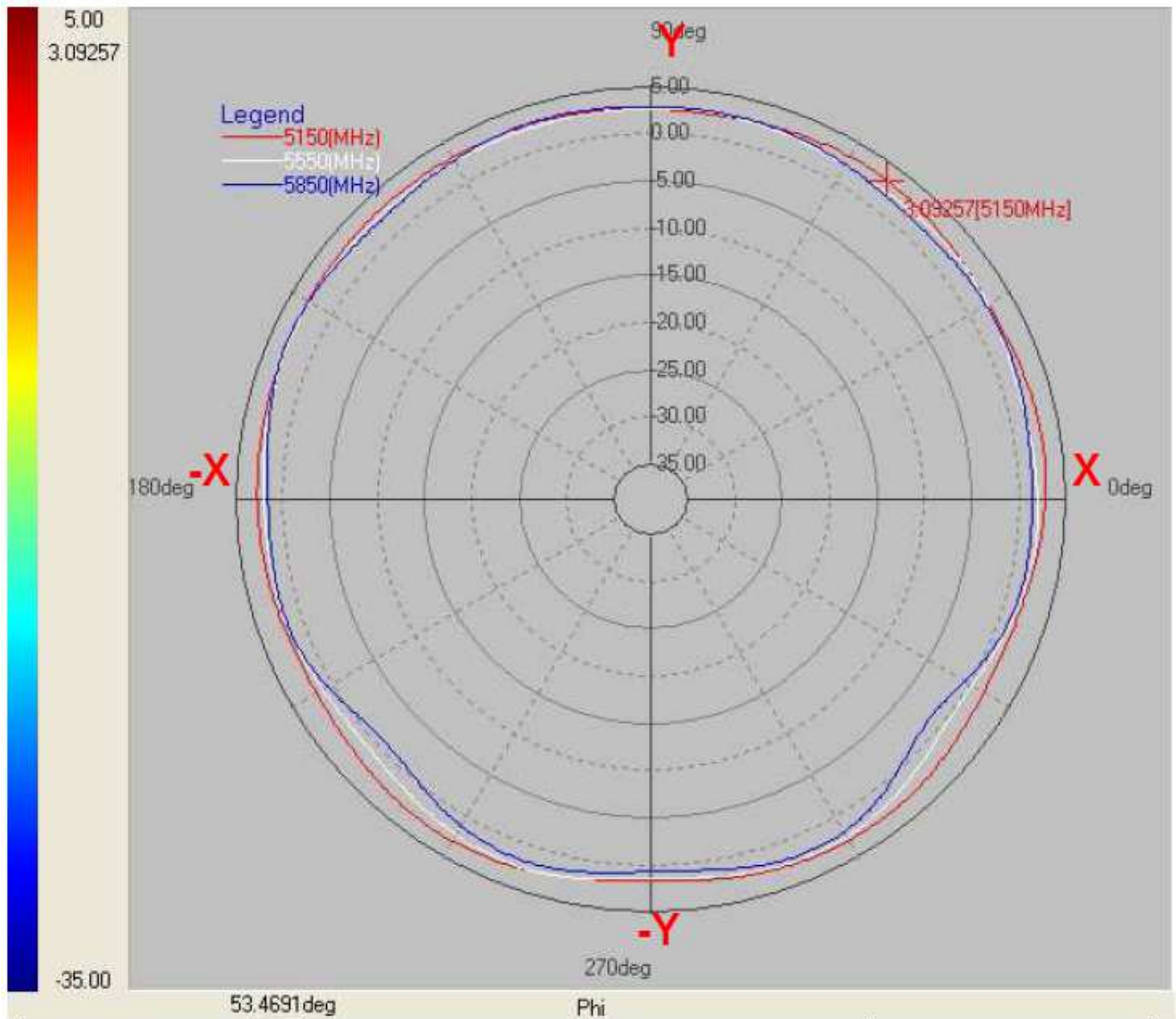
Layer	Max value	Min value	Average
5150MHz)	2.85	-13.11	-1.04
5550MHz)	3.12	-18.74	-0.84
5850(MHz)	2.95	-10.38	-1.48

5150~5850 MHz

X-Y Plane











Theta=90.00deg

Gain . dB



Layer	Max value	Min value	Average
5150(MHz)	3.09	1.52	2.58
5550(MHz)	2.84	0.31	2.03
5850(MHz)	3.01	-1.36	1.69

Package

華新科技股份有限公司																	
RFDPA870900SBLB8G1 製品工程表	頁次： 1 之 1																
	規章編號：	版次：A版															
	制修訂日期：2014/8/15																
包裝圖																	
<div style="border: 1px dashed black; padding: 5px;"> <p>圖一</p> <div style="display: flex; justify-content: space-around; align-items: center;">  →  →  </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> 單PCS產品 10pcs/PE袋 </div> </div>																	
<div style="border: 1px dashed black; padding: 5px;"> <p>圖二</p> <div style="display: flex; justify-content: space-around; align-items: center;">  →  →  </div> </div>																	
<div style="border: 1px dashed black; padding: 5px;"> <p>圖三</p> <div style="display: flex; justify-content: space-around; align-items: center;">  →  →  </div> </div>																	
<p>產品包裝規範：</p> <ol style="list-style-type: none"> 將每10PCS產品裝入PE袋中、封口，並在PE袋中上方粘貼製造標籤。(如圖一) 將珍珠棉放入外箱中(如圖示二) 將裝好的成品(如圖示三)放入外箱中，每箱放1500pcs產品，上下各放1片珍珠棉，標籤需貼到最小包裝。 																	
<p>製標圖示： 實物標籤內容僅作參考 具體內容以出貨料號為準</p>																	
	<p>(NO 1.): Spec desc. (NO 2.): 料號 批號 數量(PN & LOT & QTY) (NO 3.): 盤點條碼(Inventory check barcode) (NO 4.): 列印時間-總張數(print system time-total piece this print) (NO 5.): 表示 BULK LOT (NO 6.): 表示該張標籤流水序號</p>																
<p>標籤注釋權屬華科電子有限公司</p>																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>變更時間</th> <th>變更版別</th> <th>變更內容</th> </tr> </thead> <tbody> <tr> <td>2014/8/15</td> <td>A</td> <td>新版發行</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>			變更時間	變更版別	變更內容	2014/8/15	A	新版發行									
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制定：		袁蕊蕊															