



WHA YU INDUSTRIAL CO., LTD.(HEAD OFFICE)
 DONGGUAN AEON TECH CO.,LTD.(CHINA)
 SUZHOU AEON TECH CO.,LTD.(CHINA)
 AEON TECH (SHANGHAI) CO.,LTD(CHINA)
 DONGGUAN PARNER TECH CO.,LTD.(CHINA)



SPECIFICATION FOR APPROVAL

CUSTOMER: 永洋科技股份有限公司

PART NAME: PIFA

PART NO.: 11320Y11033A1

REVISION:

W. Y. P/NO.: C381-510146-A(SSR-90700)

REV.: X2

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
APPROVED BY :	Rome	 
DATE :	4/24/09	

WHA YU GROUP

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PIFA Antenna

Specification

1. Electrical Properties With Housing

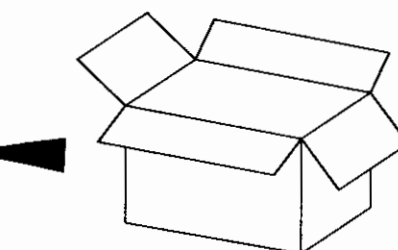
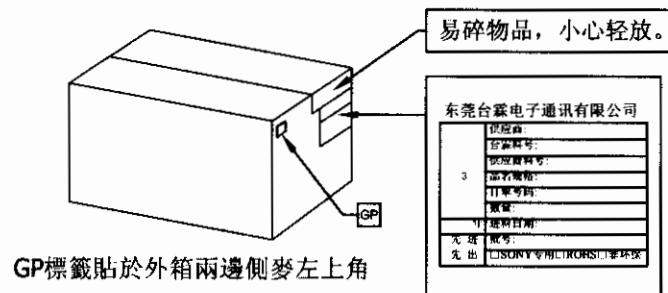
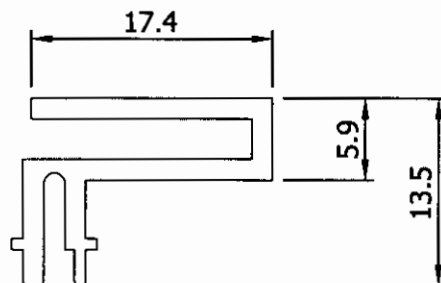
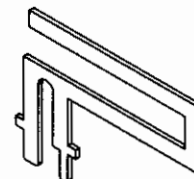
- 1.1 Frequency Range..... 2.4GHz ~ 2.5GHz
- 1.2 Impedance 50Ω Nominal
- 1.3 VSWR 1.92:1 Max.
- 1.4 Return Loss..... -10 dB Max.
- 1.5 Efficiency..... 60%
- 1.6 Gain(peak)..... 4dBi
- 1.7 Polarization..... Linear ; Vertical
- 1.8 Admitted Power..... 1W

2. Physical Properties :

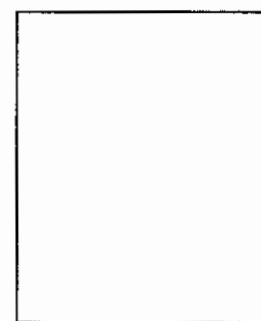
- 2.4 Operating Temp. -20°C ~ +65°C
- 2.5 Storage Temp. -30°C ~ +75°C

CG-

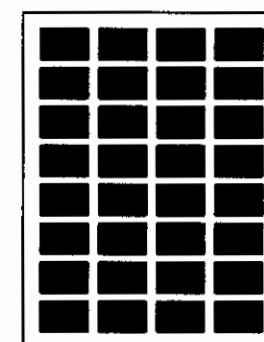
REV	DATE	DESCRIPTION
X1	4/20-2009	New Issue



5盒吸塑盤放入1個外箱中，一箱12800PCS



每一層放1PCS隔板



每格80pcs,共80*32= 2560PCS

1	PIFA	不銹鋼鍍銀	1	
NO	DESCRIPTION		Q'TY	REMARK

CUSTOMER'S SINGATURE

XX.	±5	APPROVED
X.	±3.0	
.X	±1.0	CHECKED
.XX	±0.5	
.XXX	±0.1	DRAWING

CUSTOMER:	永洋		
PART NO :	11320Y11033A1		
PARTNAME:	PIFA		
W.Y P/NO :	C381-510146-A		
REV	UNIT	FILE	SSR-90700
X1	mm	SHEET :	1/1

M.gear Wha Yu Group

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Antenna Design for 3G AP

(AMIT)

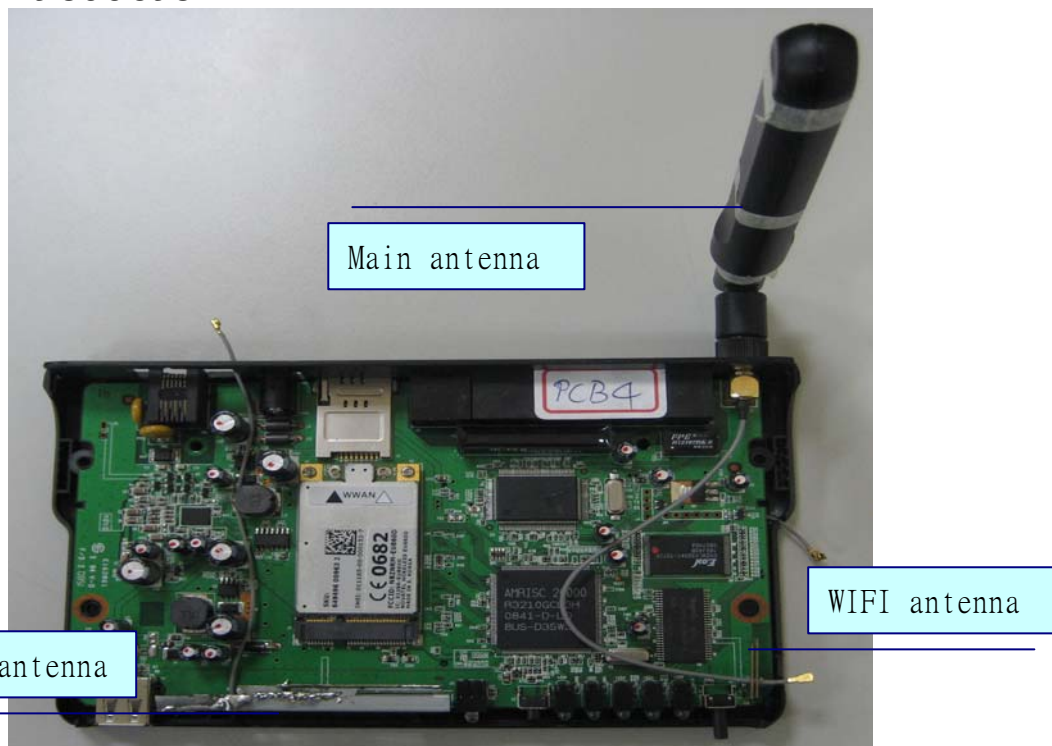
V1.05

Document Number	NP-8098
1 st Released Date	09/03/03
Last Released Date	
Author	Jerry Huang
Review by	Romeo Chou

Revised History

[illegible]

1 Antenna Introduction

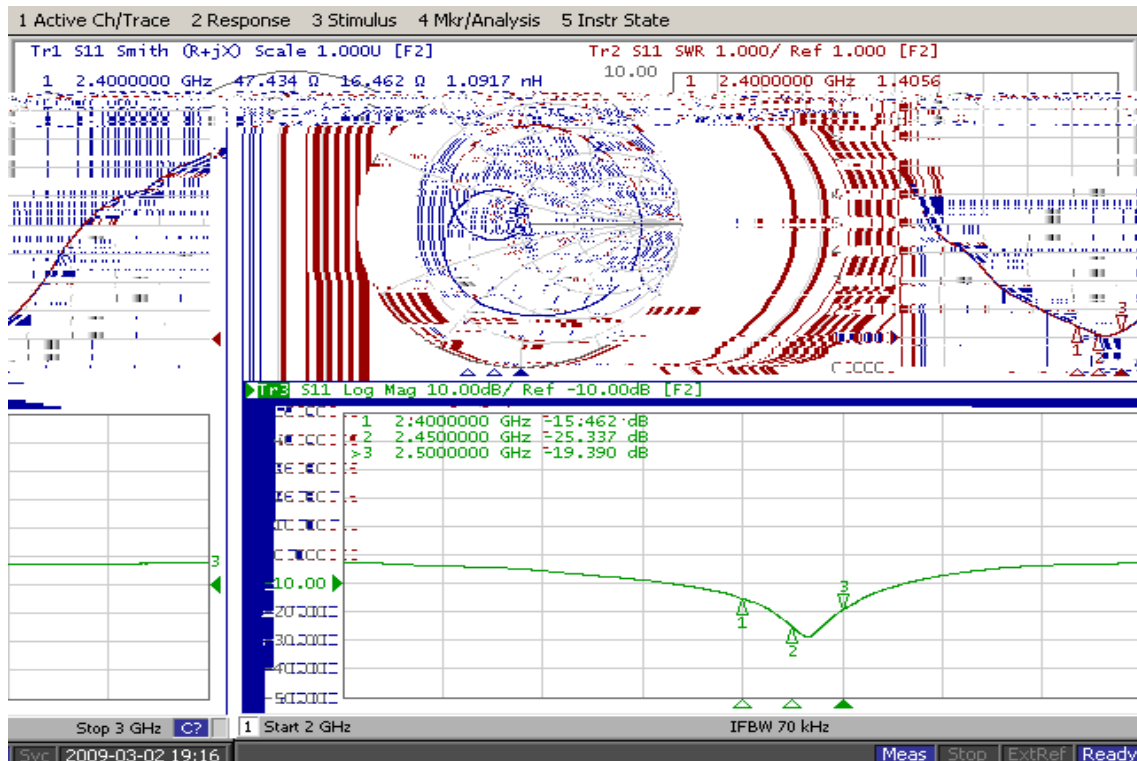


2 S-parameter test results

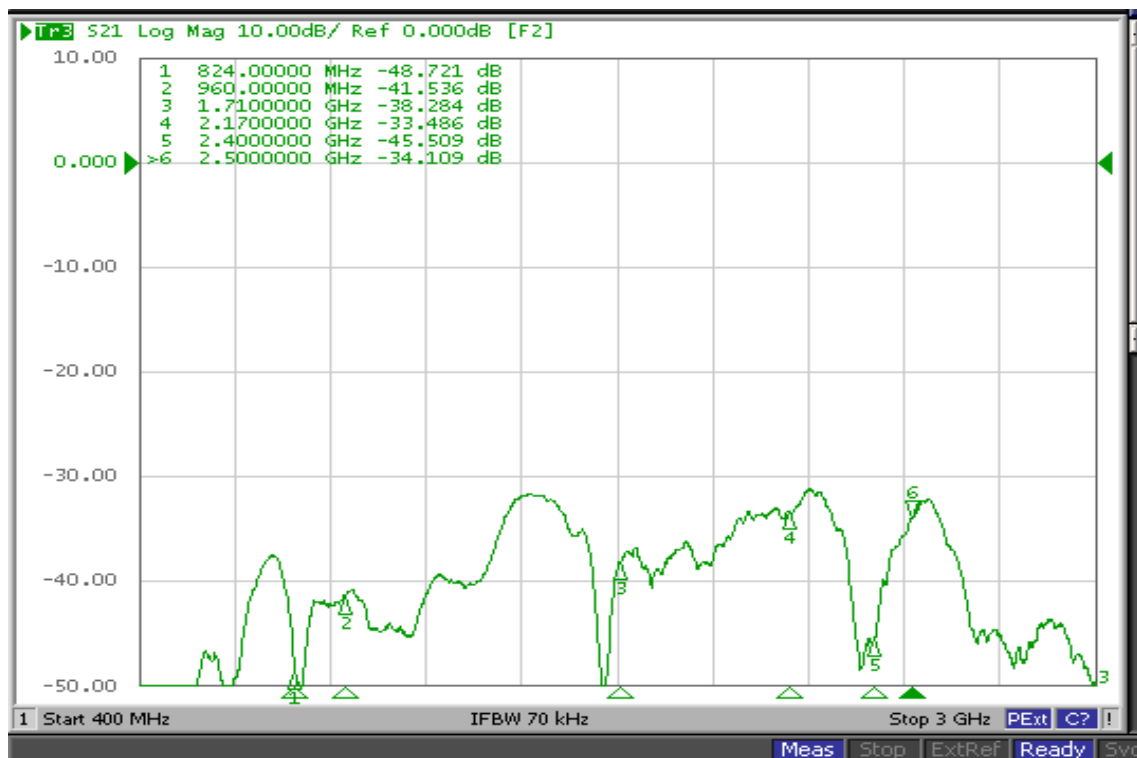
2.1 Measured method:



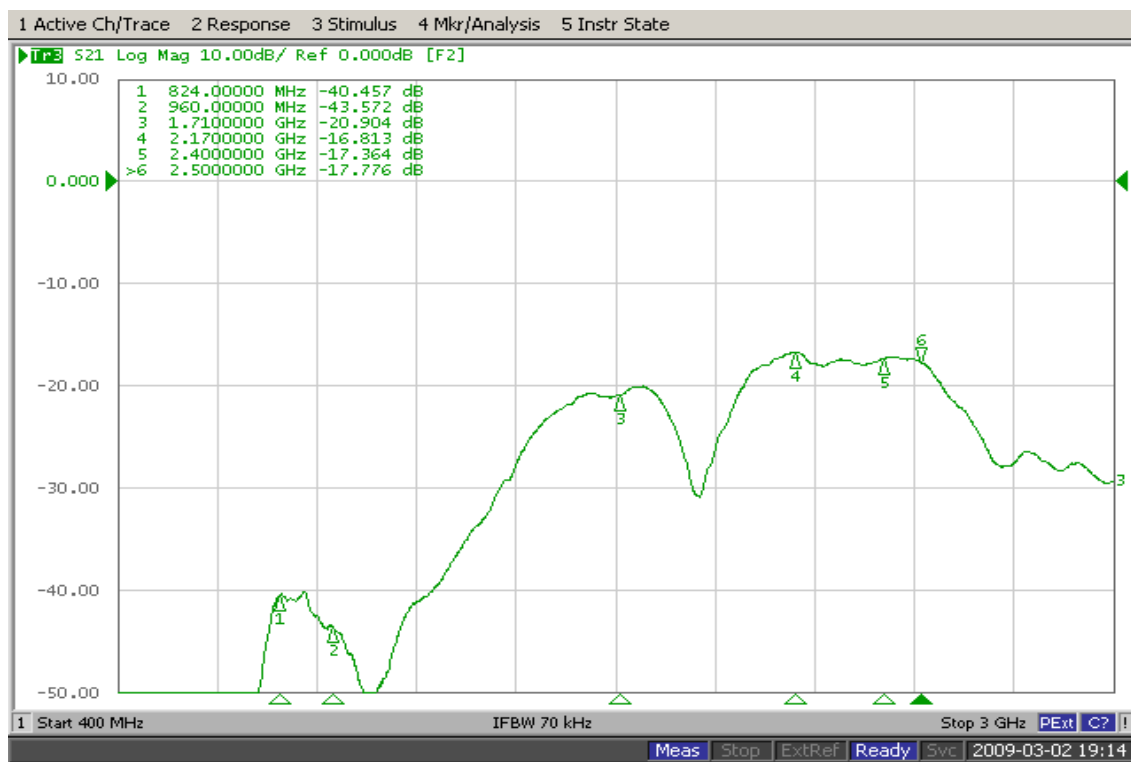
2.2 WIFI antenna



2.3 Isolation



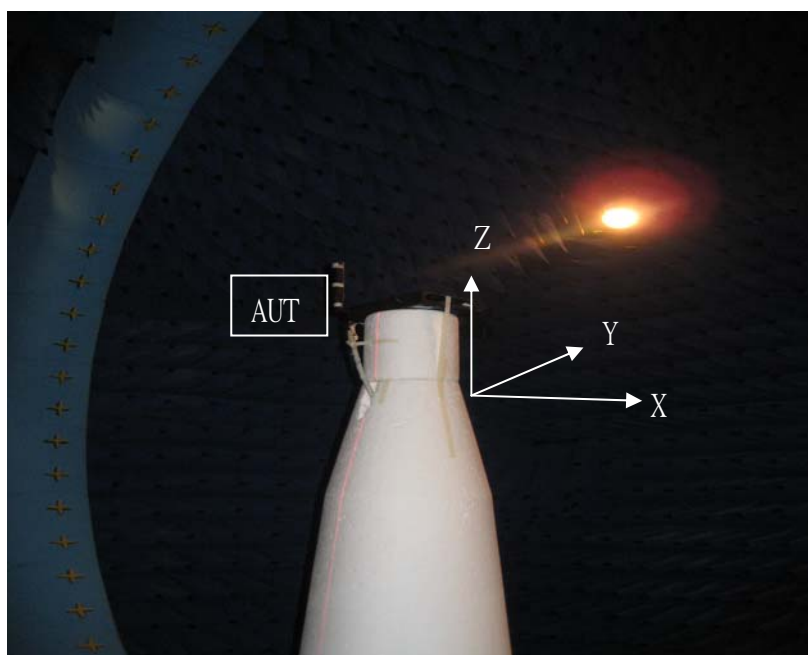
Main to WIFI

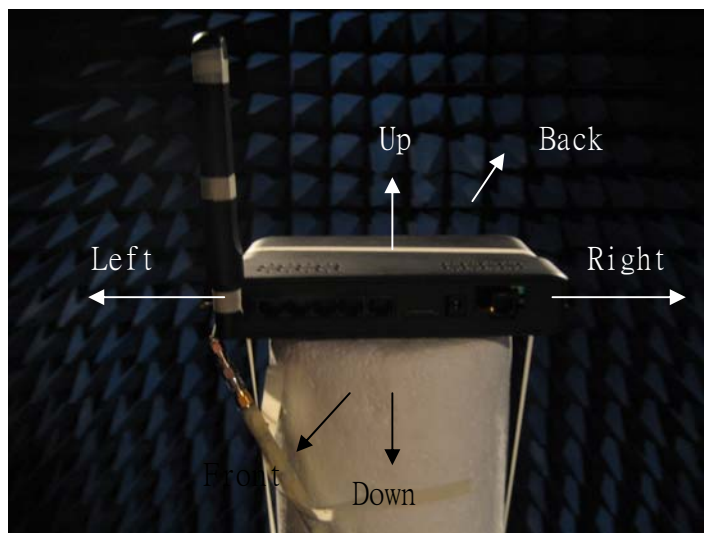


Diversity to WIFI

3 Gain & Patterns test results

3.1 Measurement setting

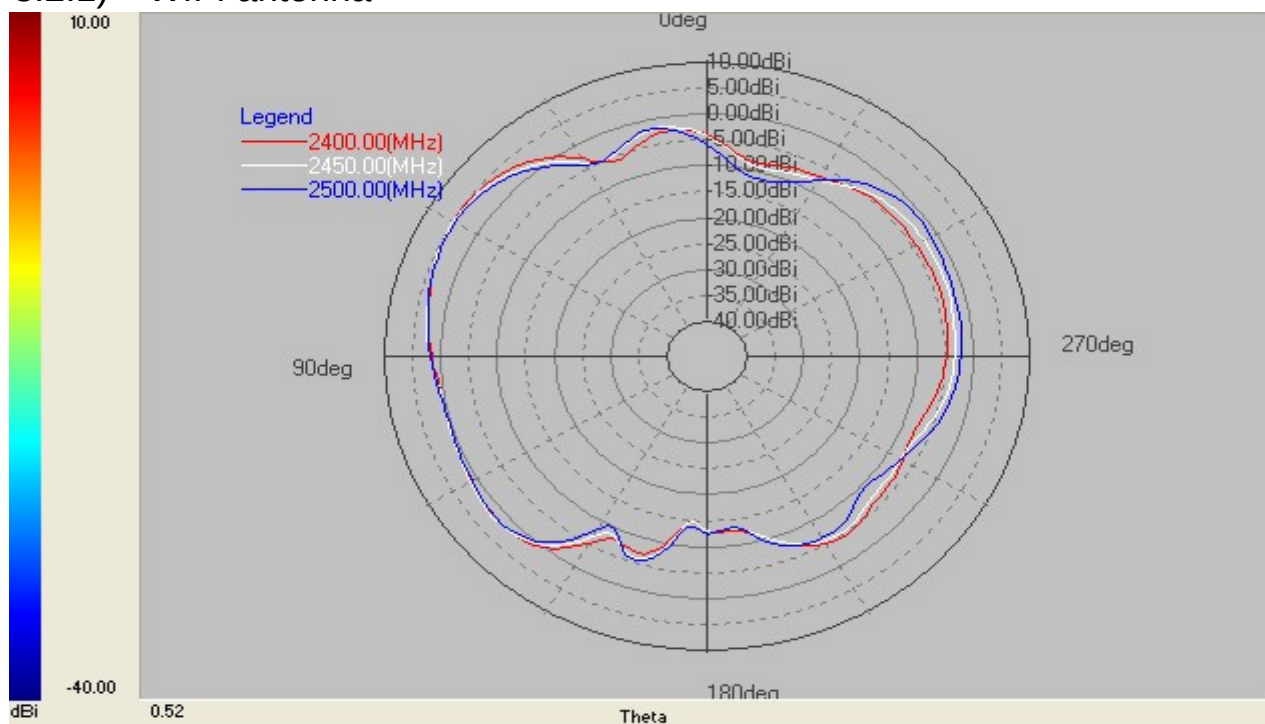




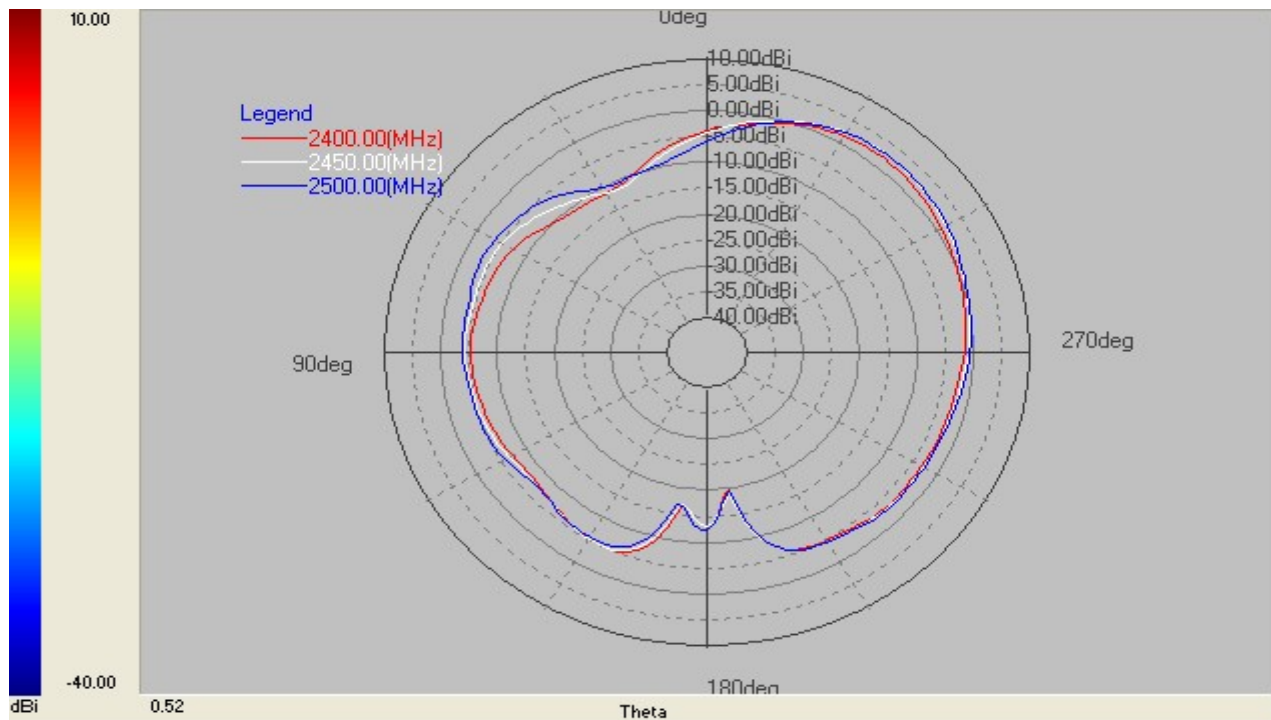
	XY	YZ	XZ
0°	Right	Up	Up
90°	Back	Back	Right
180°	Left	Down	Down
270°	Front	Front	Left

3.2 Radiation patterns

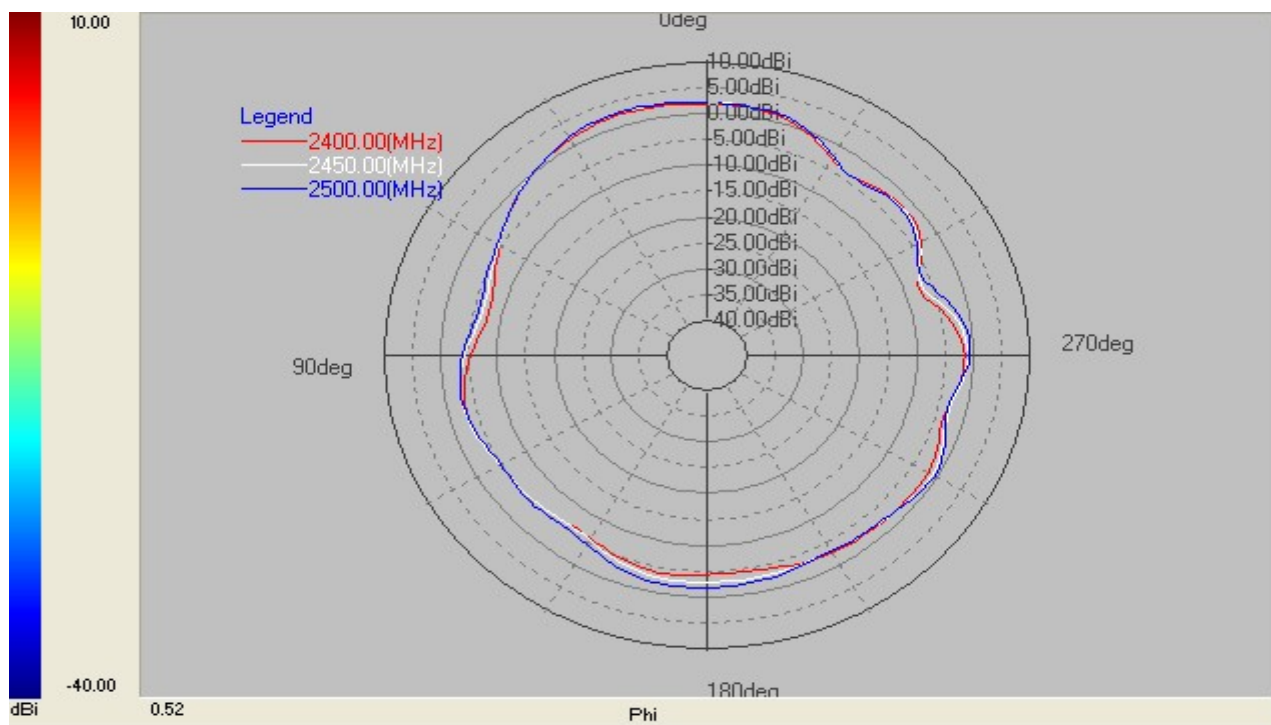
3.2.1) WIFI antenna



X-Z plane



Y-Z plane



X-Y plane

3.3 Gain table

3.3.1) WIFI antenna

Frequency (MHz)	X-Z plane Phi=0		Y-Z plane Phi=90		X-Y plane theta=90		E-total (dBi)	Efficiency (%)
	Peak Gain	Average Gain	Peak Gain	Average Gain	Peak Gain	Average Gain		
2400	4.74	-2.68	1.75	-4.41	1.90	-2.70	5.70	62.90
2450	4.72	-2.54	2.66	-3.77	2.40	-2.30	5.53	64.80
2500	4.41	-2.58	2.72	-3.60	2.45	-2.07	5.10	64.20

SGS Test Report

Product : PIFA

Contents

No	Description		Report No.	Page
1	PIFA	不銹鋼鍍鎳	CANEC0902007130 CE/2009/26412	P.12~15 P.16~25

Result for RoHS : PASS



譚裕實業股份有限公司
WHA YU INDUSTRIAL CO., LTD

RoHS 排外條款說明
RoHS Exclusive item Hazardous Substance

本公司保證，本產品均屬環保產品，皆符合 RoHS 法規要求，並適用於 RoHS 規定之排除條款。

We hereby confirm and assure that all parts and sub-materials delivered to your company comply with RoHS Standard and apply to RoHS Exclusive item.

RoHS 合金類排除條款要求如下：

RoHS Exclusive item :

合金種類 alloys item	鉛允許含量(ppm) Lead acceptance concentration
鋼材 steel	<3,500ppm
鋁合金 aluminium alloys	<4,000ppm
銅合金 copper alloys	<40,000ppm
焊錫 solder	<1,000ppm

立承諾書人

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company name: WHA YU INDUSTRIAL CO., LTD

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負責人：_____ 林祺生 _____ 董事長
sign by

立約日期：西元 2006 年 9 月 05 日
Date: 2006. 09. 05

