

規 格 承 認 書  
SPECIFICATION FOR APPROVAL

客戶名稱：  
CUSTOMER:

客戶料號：  
CUSTOMER NO:

品 名  
PATR NAME: WIFI FPC Antenna

RS 料號  
RS NO: B34X.W1.1.334

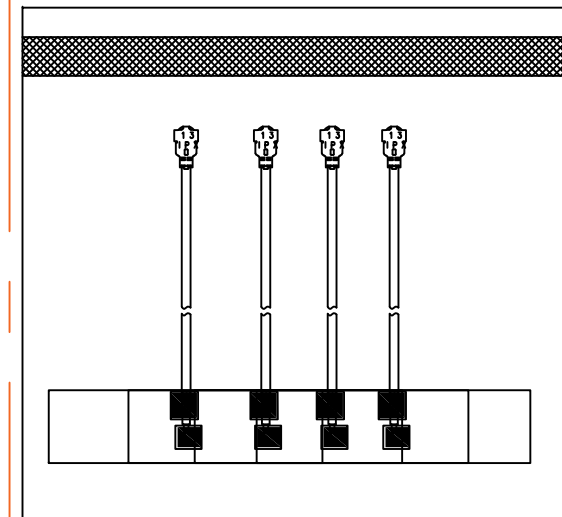
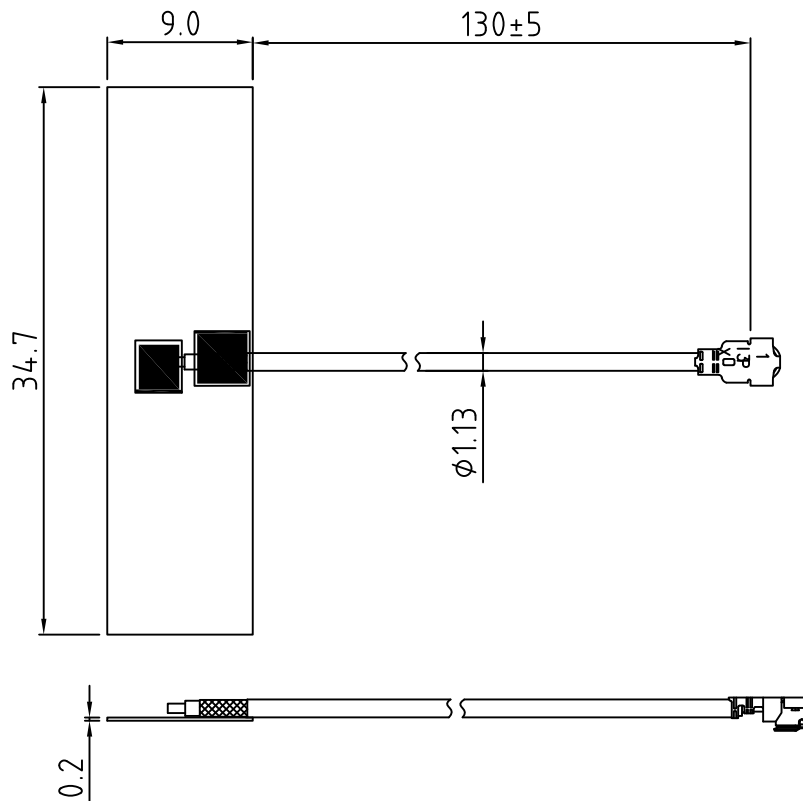
SUPPLIER SIGNATURE (供方確認)		
APPROVAL	CHECK	DESIGN
king	Frank	HZH

CUSTOMER APPROVED BY (客戶確認)		
APPROVAL	CHIEF	SUPERVISOR

产 品 规 格 概 述  
Overview of product specification

<b>Electrical properties</b>	
Frequency	2.4~2.5GHz
Impedance	50 ohm Nominal
Return Loss	-10 dBi
VSWR Port 1&2	2.0:1 MAX
Gain	2.4GHz~ 2.5dBi 2.45GHz~3.0dBi 2.5GHz~ 3.9dBi
Connector	MHF1
Cable length	RG1.13 Black
Coax cable loss	<a href="#">0.58dB/M--500MHz</a> <a href="#">2.2db/M--1000MHz</a> <a href="#">3.4db/M--2000MHz</a> <a href="#">4.2db/M--3000MHz</a> <a href="#">4.5db/M--4000MHz</a> <a href="#">5.2db/M--5000MHz</a> <a href="#">5.6db/M--6000MHz</a>
<b>Mechanical Properties</b>	
Radome	FPC
Operating Temp	-40°C to +80°C
Radome Color	Black

3M  
3M  
3M  
3M



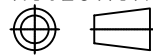
20PCS PE/BAG  
Package

Electrical Properties

Frequency Range	2.4~2.5GHZ
Impedance	50 Ω
V.S.W.R.	≤2.0
Radiation	Omni
Gain	2.0DBi
Polarization	Vertical
Mechanical Properties	
Whip	FPC
Standard Connector	MHF1
Weight	- g(est)
Operating Temp	-40°~ +85°

NO	Name	Material	Finish	QTY	Raw Material Manufacturer Name
1	Antenna	FPC	BLACK	1	RUNSHUN
2	RG1.13 Cable	FEP	BLACK	1	RUNSHUN
3	MHF1 Connector	Copper	GOLD	1	RUNSHUN
4	3M Glue		Yellow	1	RUNSHUN

THIRD ANGLE  
PROJECTION

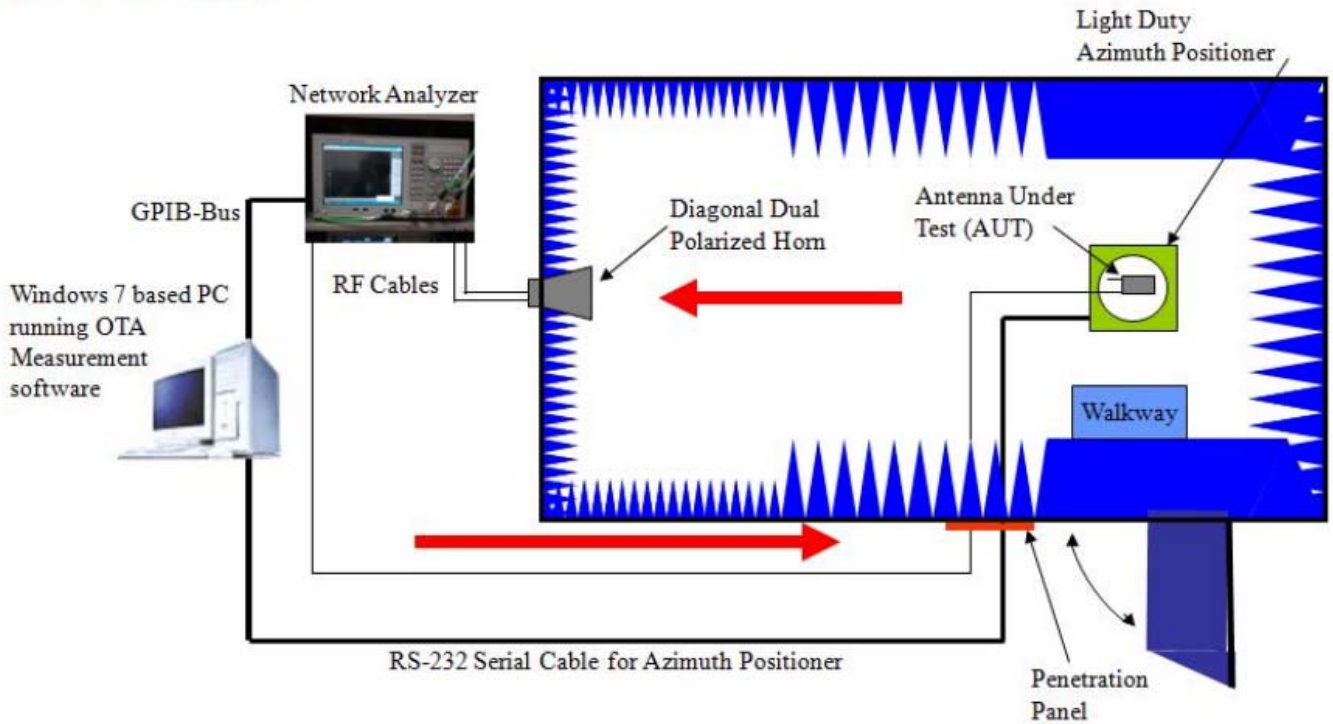


Tolerance  
.X ±0.1  
.XX ±0.05  
.x ±1°

DRAWN BY	li	MATERIAL:		PART NO:	B34X.W1.1.334
CHECKED BY		FINISH:	BLACK	TITLE:	2.4GHZ FPC Antenna
APPROVED BY	King	UNIT:	mm		
DATE:	20.12.22	SCALE:	1/1		

**RS** RUNSHUN  
Dongguan Run Shun/www.rsantenna.com

## Passive mode

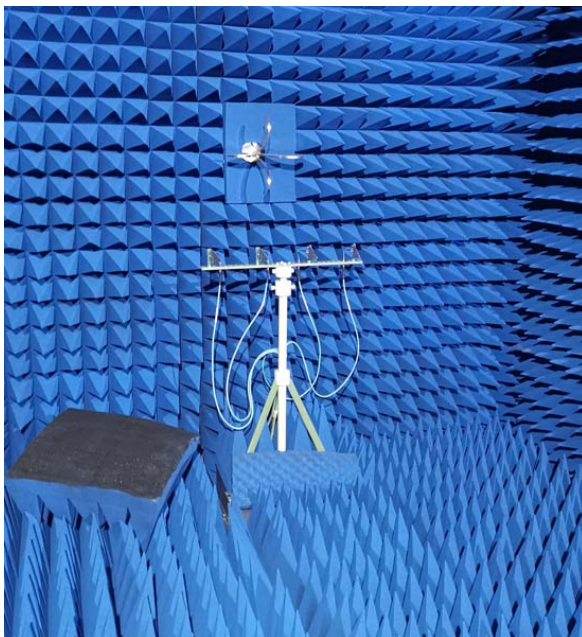


### TEST INSTRUMENT :

1. AGILENT E5071C NETWORK ANALYZER
2. 3D OTA Chamber(WanShih)

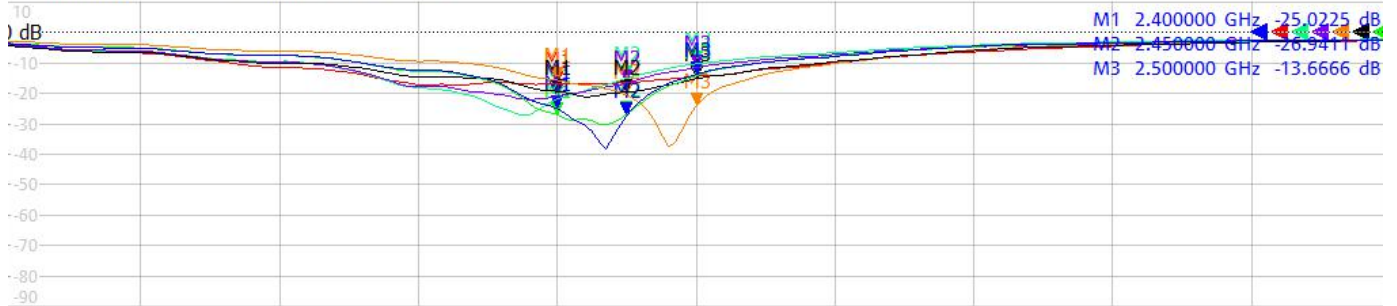
### Anechoic Chamber External Dimensions

(L x W x H): 8m x 4m x 4m



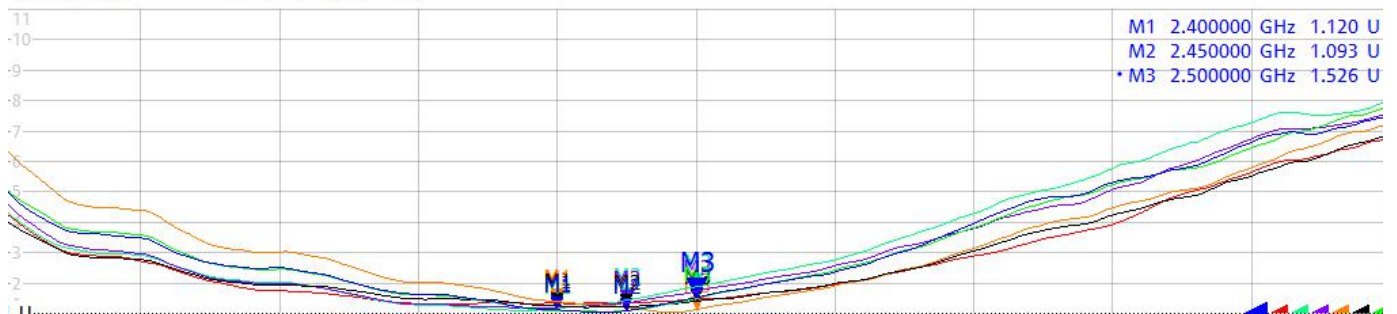
# VSWR

Trc1      S11 dB Mag 10 dB/ Ref 0 dB Cal      Mem3[Trc1]      S11 dB Mag 10 dB/ Ref 0 dB      1  
 Mem5[Trc1]      S11 dB Mag 10 dB/ Ref 0 dB      Mem7[Trc1]      S11 dB Mag 10 dB/ Ref 0 dB  
 Mem9[Trc1]      S11 dB Mag 10 dB/ Ref 0 dB      Mem11[Trc1]      S11 dB Mag 10 dB/ Ref 0 dB  
 Mem13[Trc1]      S11 dB Mag 10 dB/ Ref 0 dB



Ch1 Start 2 GHz      Pwr -10 dBm Bw 10 kHz      Stop 3 GHz

Trc2      S11 SWR 1 U/ Ref 1 U Cal      Mem4[Trc2]      S11 SWR 1 U/ Ref 1 U      2  
 Mem6[Trc2]      S11 SWR 1 U/ Ref 1 U      Mem8[Trc2]      S11 SWR 1 U/ Ref 1 U  
 Mem10[Trc2]      S11 SWR 1 U/ Ref 1 U      Mem12[Trc2]      S11 SWR 1 U/ Ref 1 U  
 Mem14[Trc2]      S11 SWR 1 U/ Ref 1 U

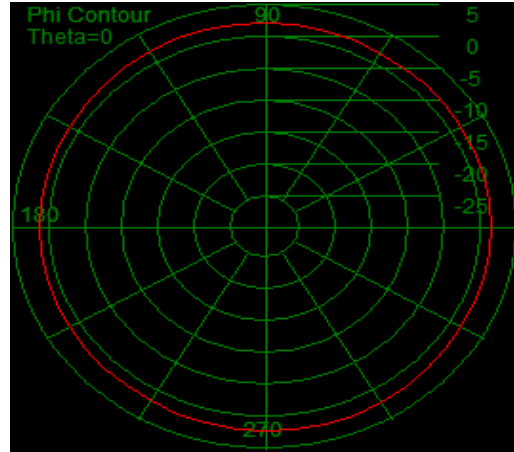
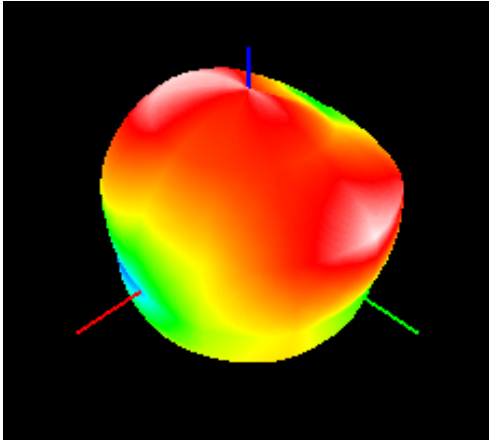


Ch1 Start 2 GHz      Pwr -10 dBm Bw 10 kHz      Stop 3 GHz

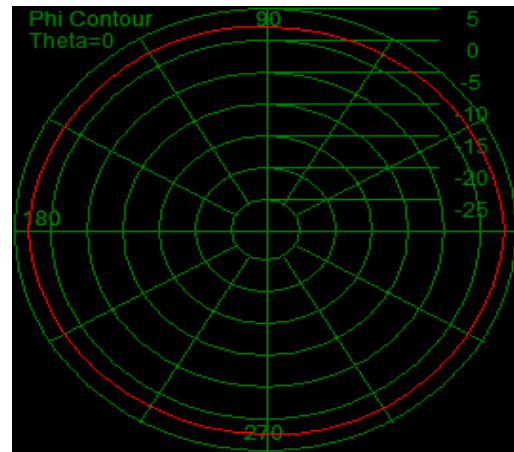
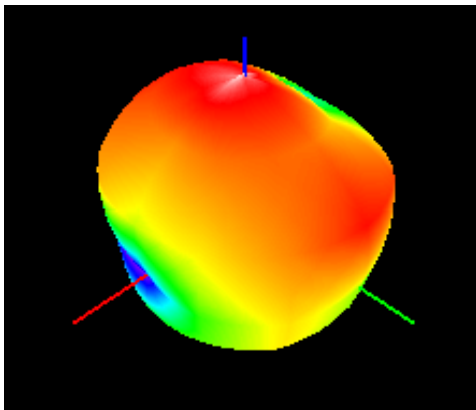
Frequency(MHz)	2400MHZ	2450MHZ	2500MHZ
S11(-10DBi)	OK	OK	OK
VSWR(≤2.0)	OK	OK	OK

## Radiation Patterns

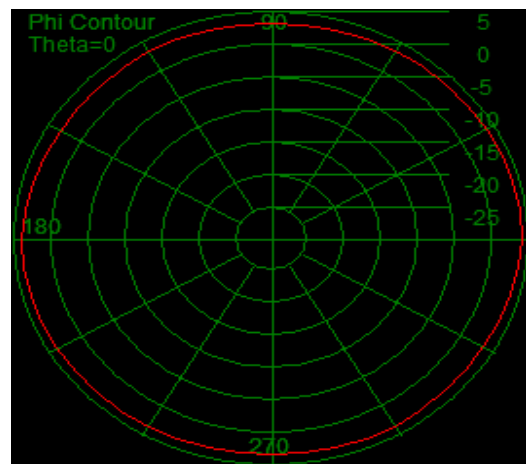
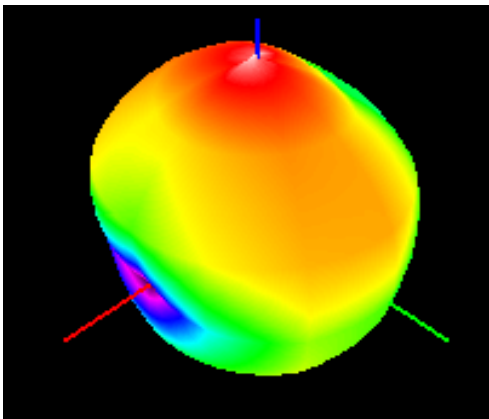
2.4GHz



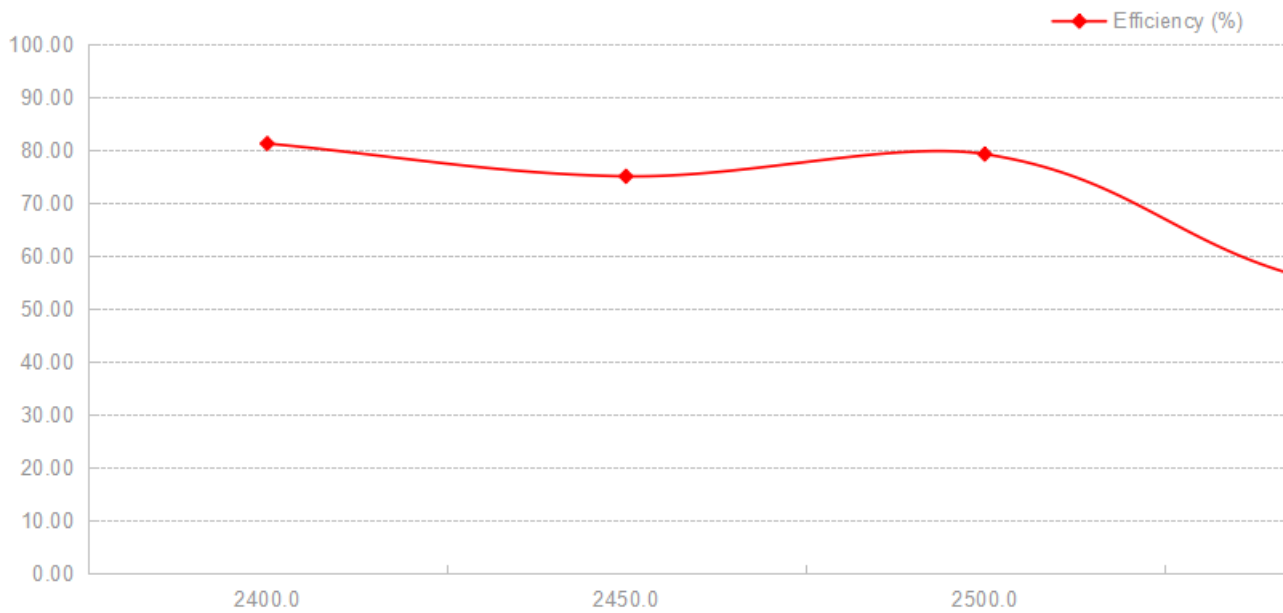
2.45GHz



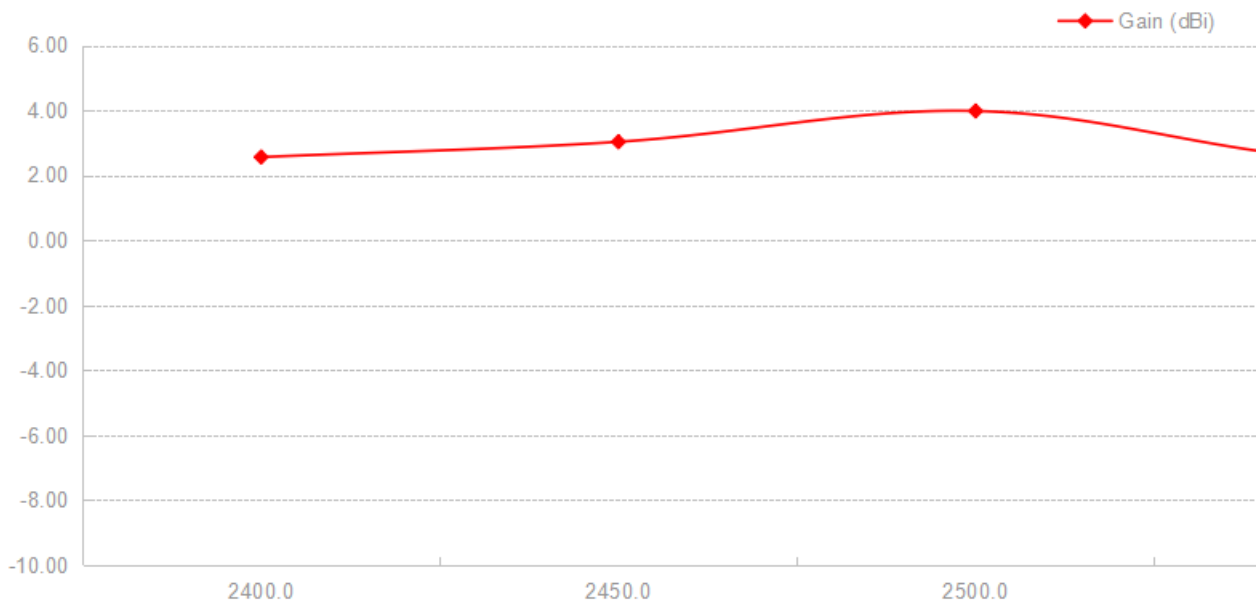
2.5GHz



## Efficiency(%)



## Peak Gain



Frequency(MHz)	2400MHZ	2450MHZ	2500MHZ
Efficiency(%)	81.3%	75.1%	79.3%
Peak Gain	2.57	3.04	3.99