

規 格 承 認 書
SPECIFICATION FOR APPROVAL

客戶名稱：
CUSTOMER:

客戶料號：
CUSTOMER NO:

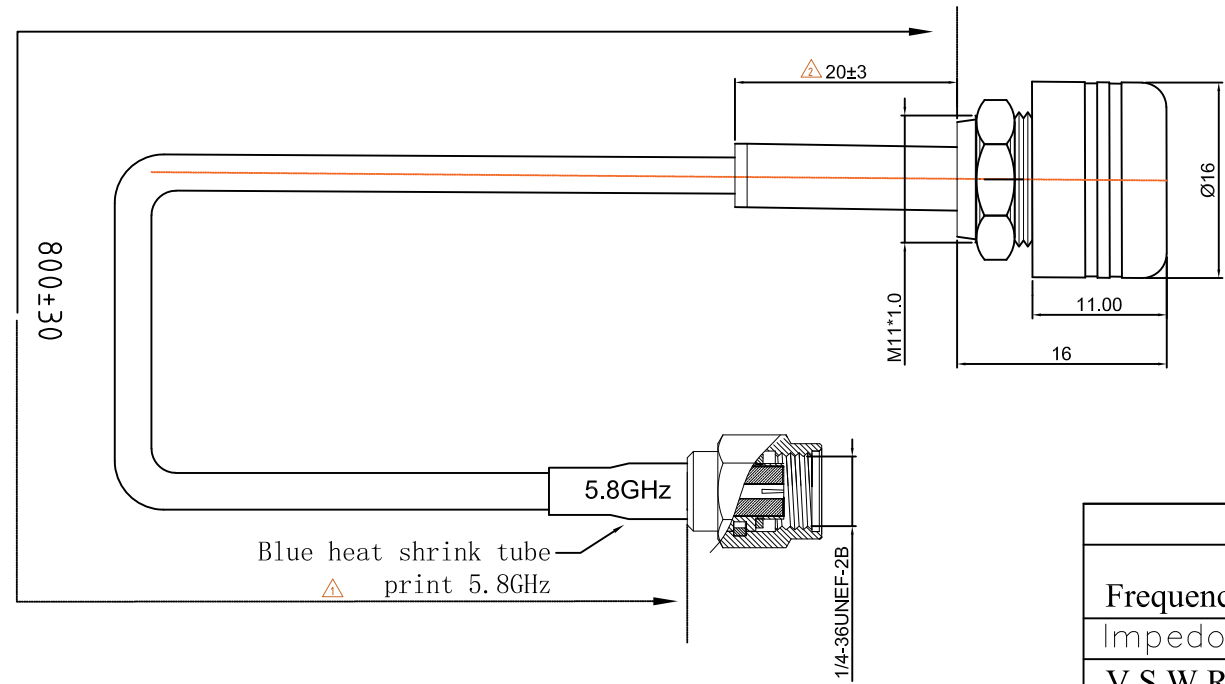
品 名
PATR NAME: 5.15~5.85GHz Antenna (短銅管)

RS 料號
RS NO: M16X.W1.1.331

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

CUSTOMER APPROVED BY (客戶確認)		
APPROVAL	CHIEF	SUPERVISOR

NO	Revision notes	Date	Designed by	Checked by
△	更改热缩套管颜色打印	22.3.27	HZH	DP
△	更新铜管尺寸	22.4.27	HZH	DP

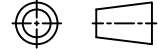


Electrical Properties	
Frequency Range	5.15~5.85GHz
Impedance	50 Ω
V.S.W.R.	≤2.0
Radiation	Omni
Gain	2.0DBi
Polarization	Vertical
Mechanical Properties	
Whip	POM
Standard Connector	SMA (M)
Weight	- g(est)
Operating Temp	-40°~ +80°

BOM

NO	Name	Material	Finish	QTY
1	Housing	POM	BLACK	1
2	SMA MALE	BRASS	GOLD	1
3	Antenna	Copper		1
4	RG174 CABLE	PVC	BLACK	1
5	Screw	Brass	NI	1
6	NUT	Brass	NI	1

THIRD ANGLE PROJECTION



Tolerance	
.X	±0.1
.XX	±0.05
.x	±1°

DRAWN BY	li	MATERIAL:		PART NO:	M16X.W1.0.331 (REV3.0)
CHECKED BY		FINISH:	BLACK	TITLE:	5GHZ Antenna
APPROVED BY	King	UNIT:	mm		
DATE:	22.4.27	SCALE:	1/1		

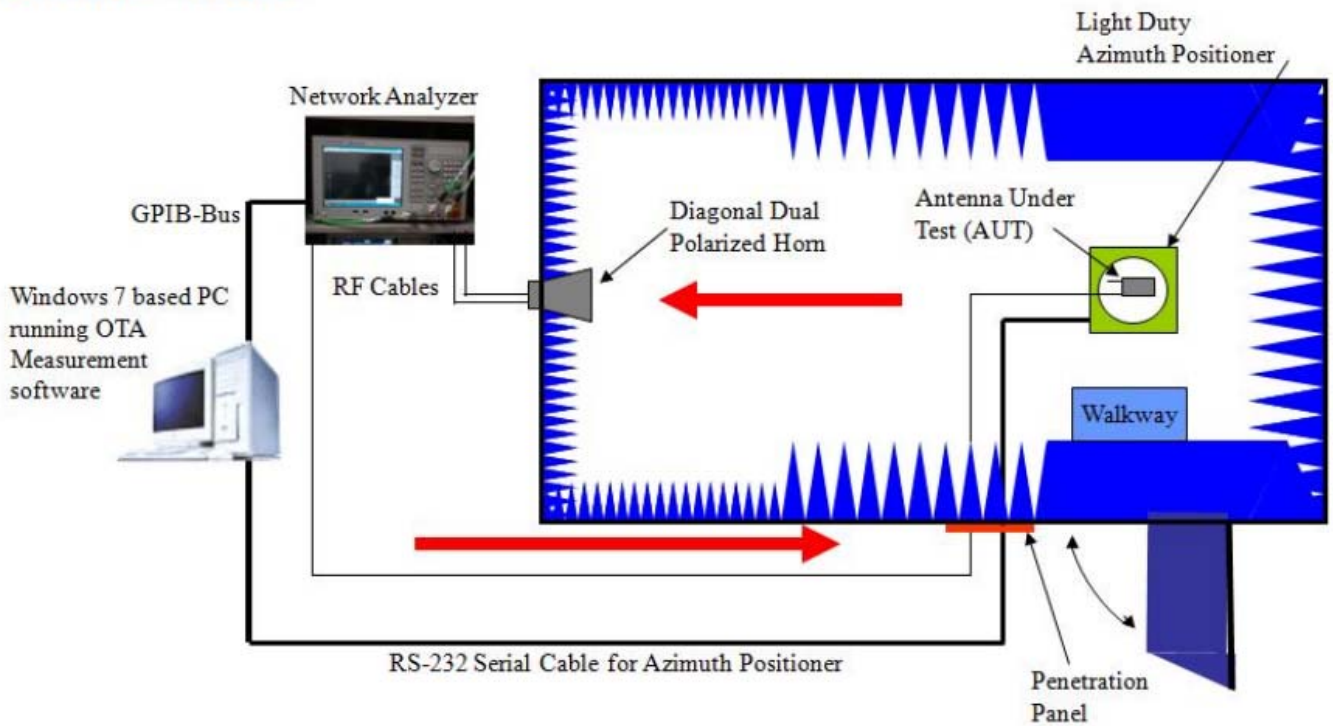
产品照片
Product Photos



产 品 规 格 概 述
Overview of product specification

Electrical properties	
Frequency	5.15~5.85GHZ
Impedance	50 ohm Nominal
Return Loss	-10 dBi
VSWR Port 1&2	2.3:1 MAX
Gain	5.15GHZ ~1.76dBi 5.5GHZ~1.74dBi 5.9GHZ~1.5dBi
Connector	RP-SMA Male
Cable length	RG174 BLACK 1.5 Meter
Coax cable loss	1.3dB/M~2.4GHz 1.45dB/M~2.45GHz 1.56dB/M~2.5GHz
Mechanical Properties	
Radome	UV Resistant POM
Operating Temp	-40°C to +80°C
Radome Color	Black

Passive mode

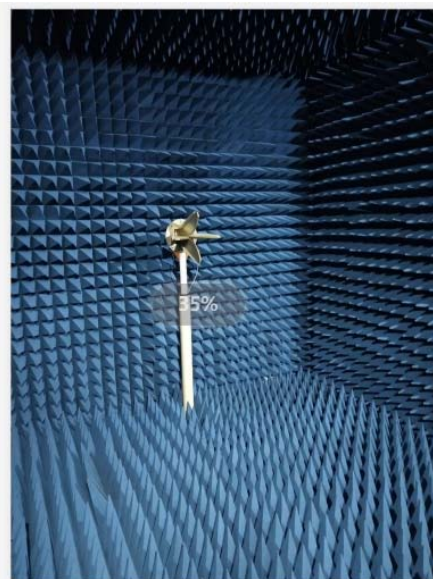


TEST INSTRUMENT :

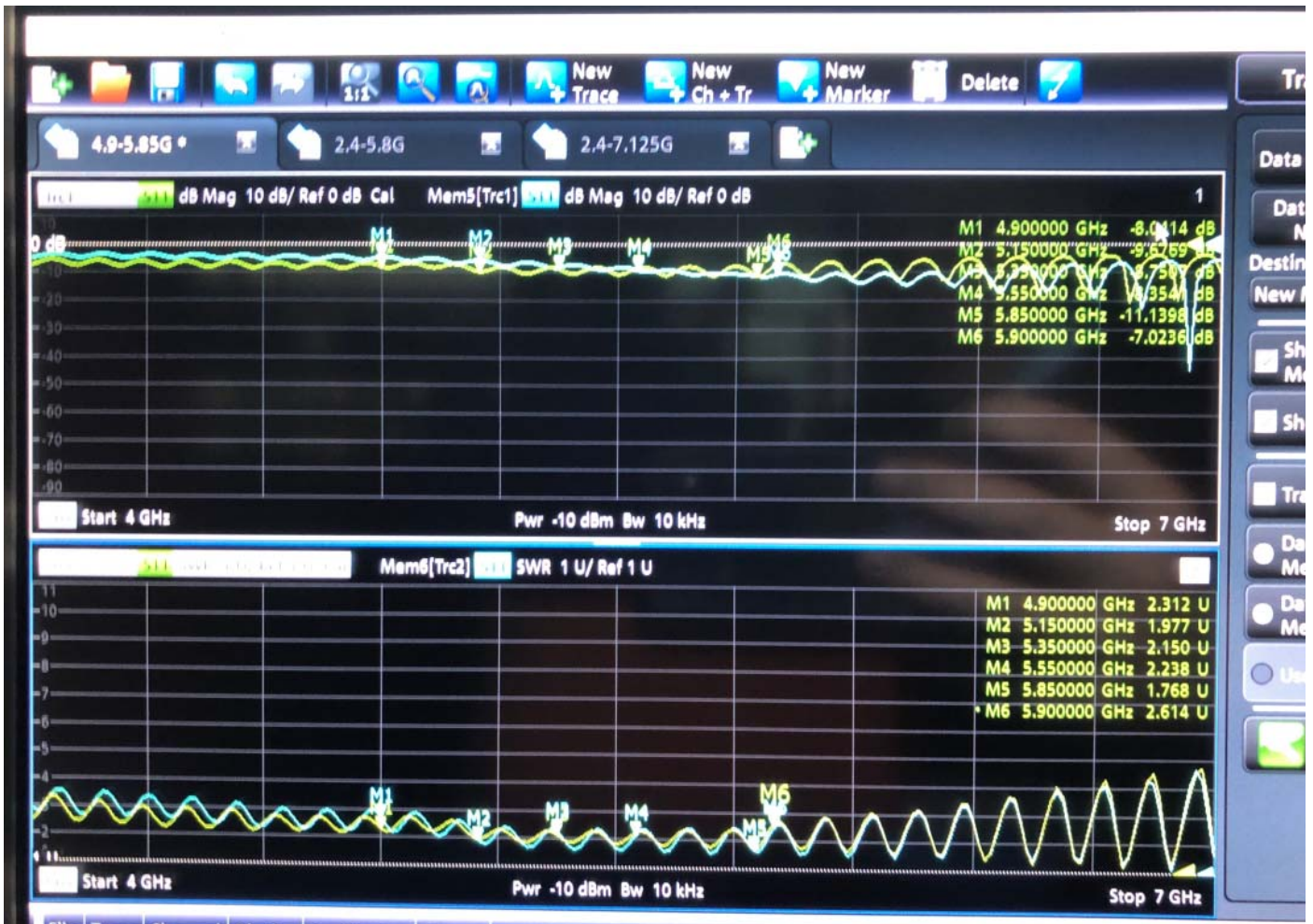
1. AGILENT E5071C NETWORK ANALYZER
2. 3D OTA Chamber(WanShih)

Anechoic Chamber External Dimensions

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



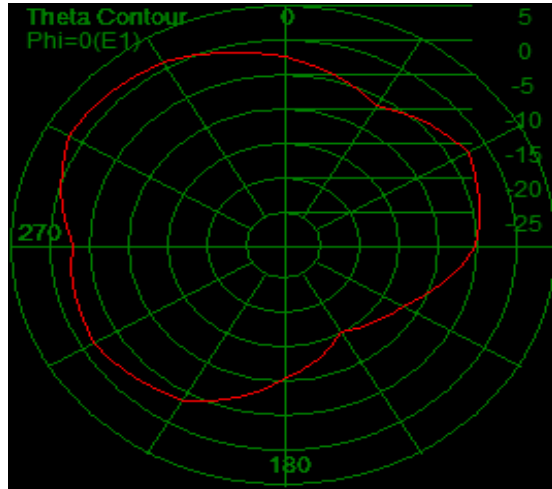
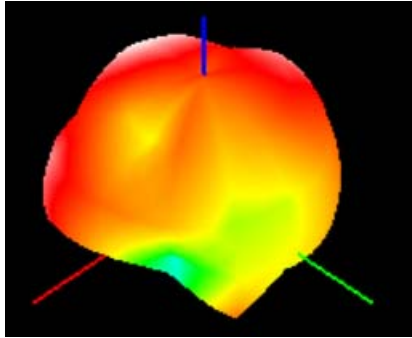
VSWR



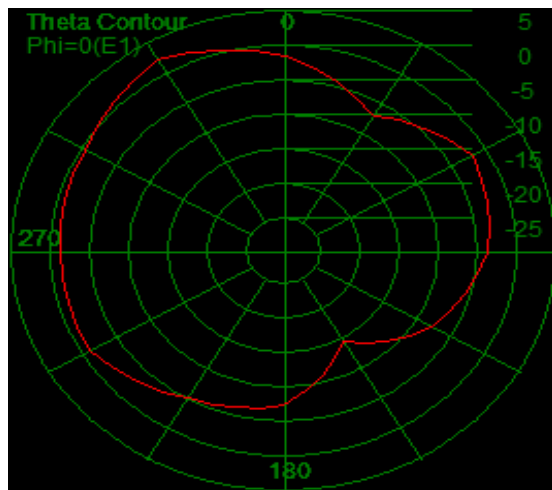
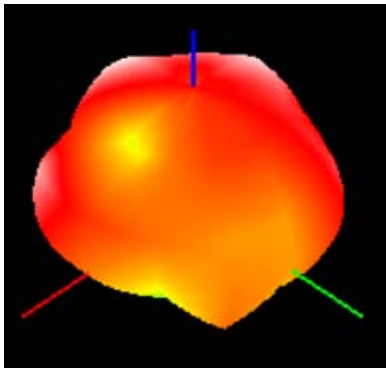
Frequency(MHz)	5.15GHz	5.5GHz	5.85GHz
S11(-10DBi)	9.676	8.354	11.13
VSWR(≤ 3.0)	1.977	2.238	1.768

Radiation Patterns

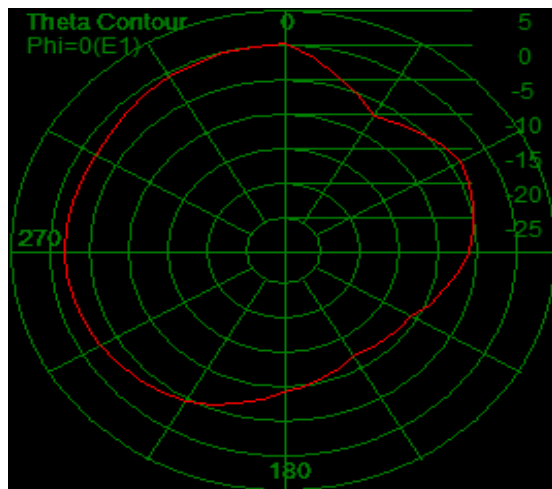
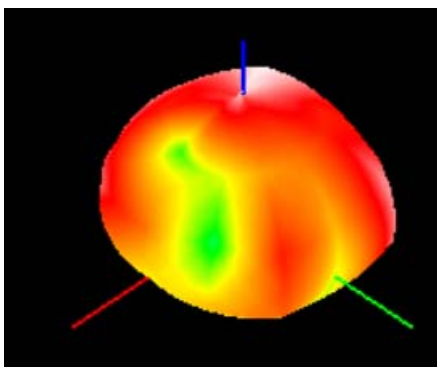
5.15GHz



5.5GHz



5.85GHz



Frequency(MHz)	5.15GHz	5.5GHz	5.85GHz
Peak gain(without cable loss)	1.76	1.74	1.51
Efficiency(without cable loss)	57.6%	63.3%	55.7%