SPECIFICATION

SHEET FOR APPROVAL

	CUSTOMER(客户名称)	高盛达	
	CS P/N(客户机种)		
	PART NAME(品名)	*WIFI* Antenna	
	FREQUENCY(频率)	2400-2500MHz 5150-5850 MHz	
	GSD NO.(物料编号)	WC0D	
	DATE(日期)	2016-06-25	

CUSTOMER	
CHECKE	APPROVAL

Remark(备注):

Sign(客户确认签字盖章): _____

DESIGN	CHECK	APPROVAL
	邹一麟	赵烽

惠 州 高 盛 达 科 技 有 限 公 司

HUIZHOU GAOSHENGDA TECHNOLOGY CO.,LTD

No.2,Jin-da Road,Huinan High-tech Industrial Park,Hui-ao Avenue,Huizhou City,Guangdong,China

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ANTENNA SPECIFICATION

1. General *Description*

Dbi	Decibel relative isotropic antenna
Tx	Transmit frequency
Rx	Receive frequency
VSWR	Voltage Standing Wave Ratio
GSM	Global Service for Mobile communication
DCS	Digital Communication System
PCS	Personal Communication System
PHS	Personal Handly-phone System
SAR	Specific Absorption Rate
PCB	Printed Circuit Board

2. Electrical Specifications

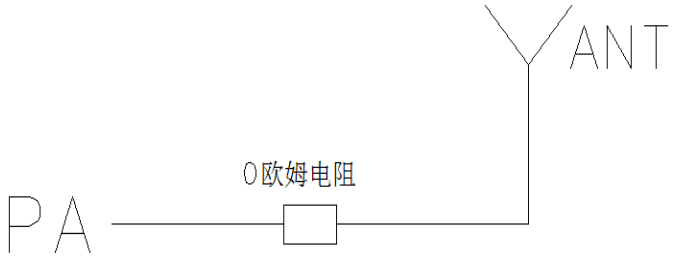
2-1 Set-up

2-1-1 Frequency Band

Frequency Band	Frequency
WIFI 2.4G	**2400-2500MHZ**
WIFI 5G	**5150-5850MHZ**

2-1-2 Impedance

Nominal Impedance(including matching circuit) : 50 ohms



2-1-3 Matching Requirements

The matching circuit on the PCB of the handset is according to Figure 1

Optimum matching circuit is highly dependent on the handset and thus.

Final matching circuit layout and values will be defined when handset is available.

2-1-4 VSWR And GAIN

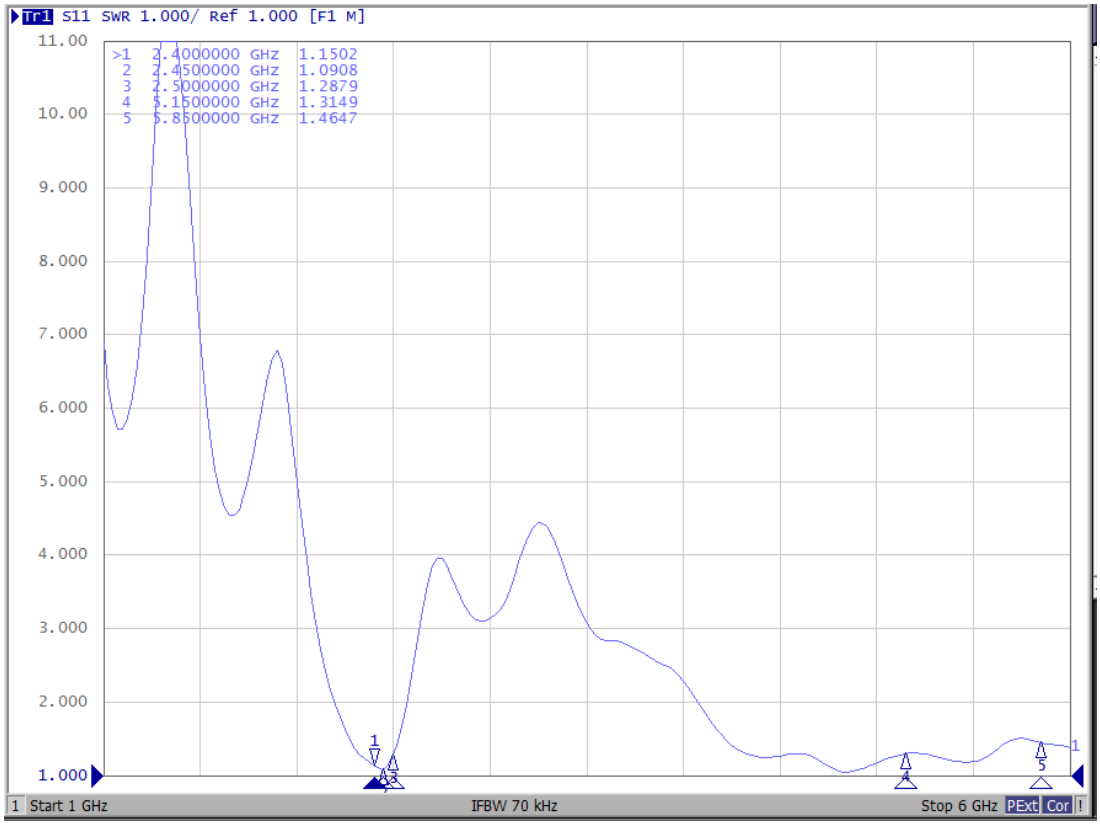
VSWR		GAIN	
Freq. Band	OPEN SPEC	**Band Freq.**	**OPEN SPEC**
2400MHz	**≦2.0**	2400MHz	**≧-1.0dBi**
2500MHz	**≦2.0**	2500MHz	**≧-1.0dBi**
5150MHz	**≦2.0**	5150MHz	**≧-1.0dBi**
5850MHz	**≦2.0**	5850MHz	**≧-1.0dBi**

※Measuring a 50Ω test jig is connected to a network analyzer to measure the VSWR.

※※All test value is done in customer approval fixture.

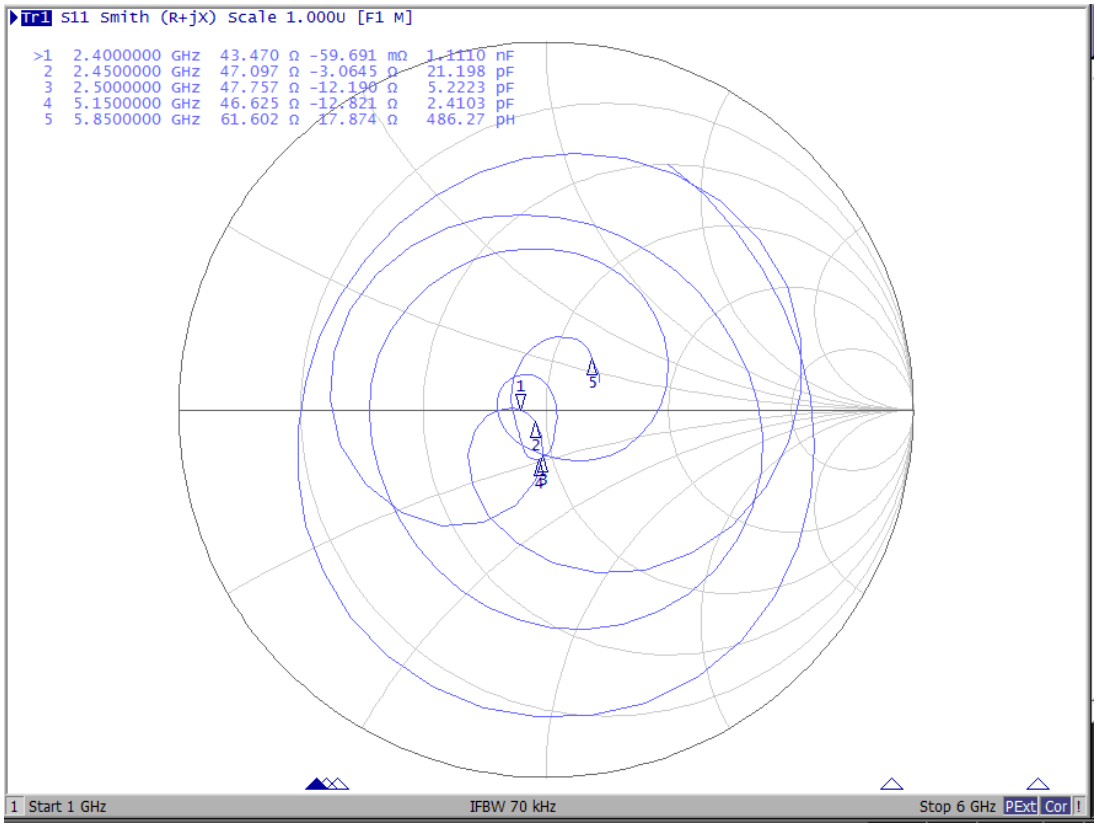
2-2 Test Data

2-2-1 VSWR



Model No:WC0D	**File:**
GSD NO:WC0D Antenna	Note: **WIFI2.4G/5G**
Sample No:yes	
Test Condition: Free Space	

2-2-2 Smith Chart



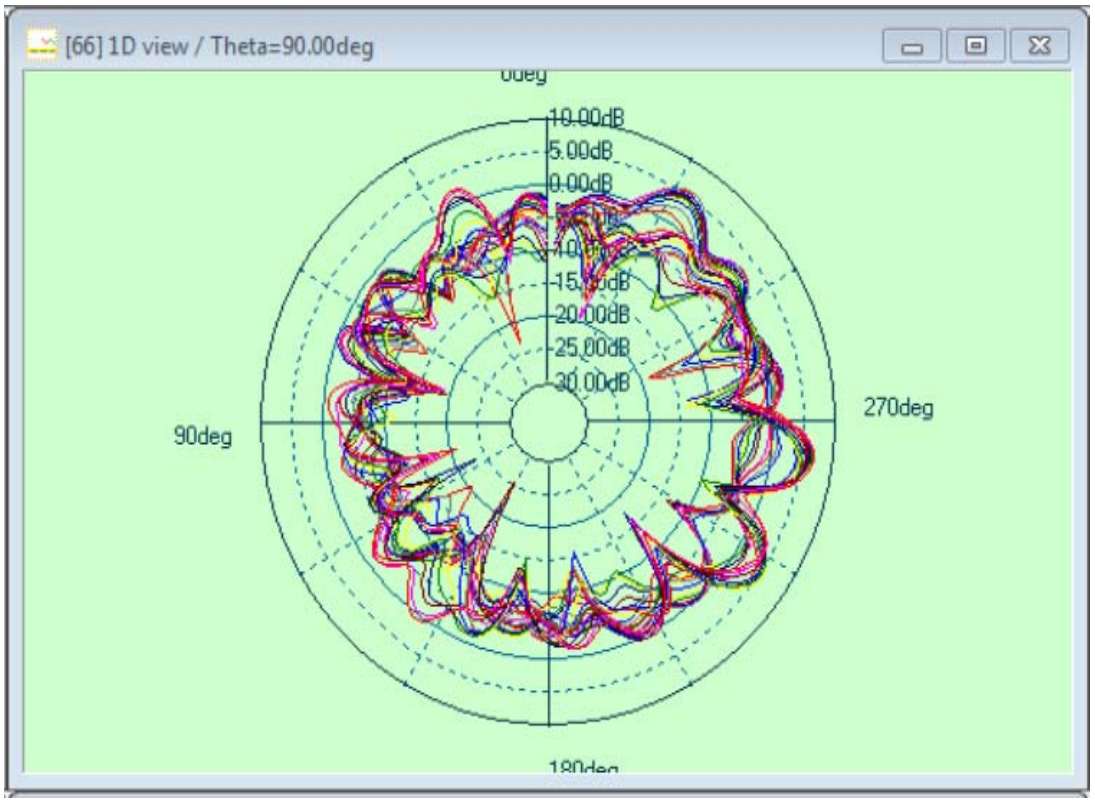
2-2-3 *GAIN Efficiency*

WIFI Gain:

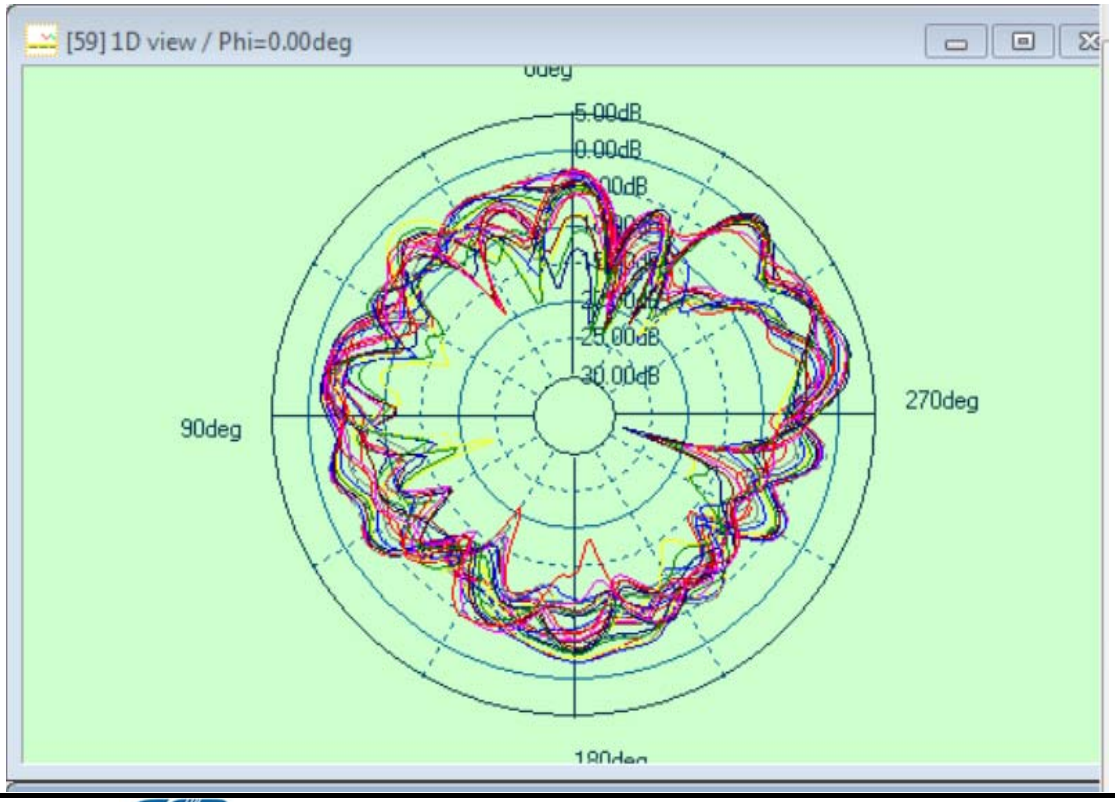
	WIFI				
Frequency (MHz)	2400	2450	2500	5150	5850
Gain Efficiency (dBi)	1.42 (44%)	1.72 (48%)	1.65 (45%)	2.34 (61%)	2.57 (66%)

2-2-4 The direction of figure

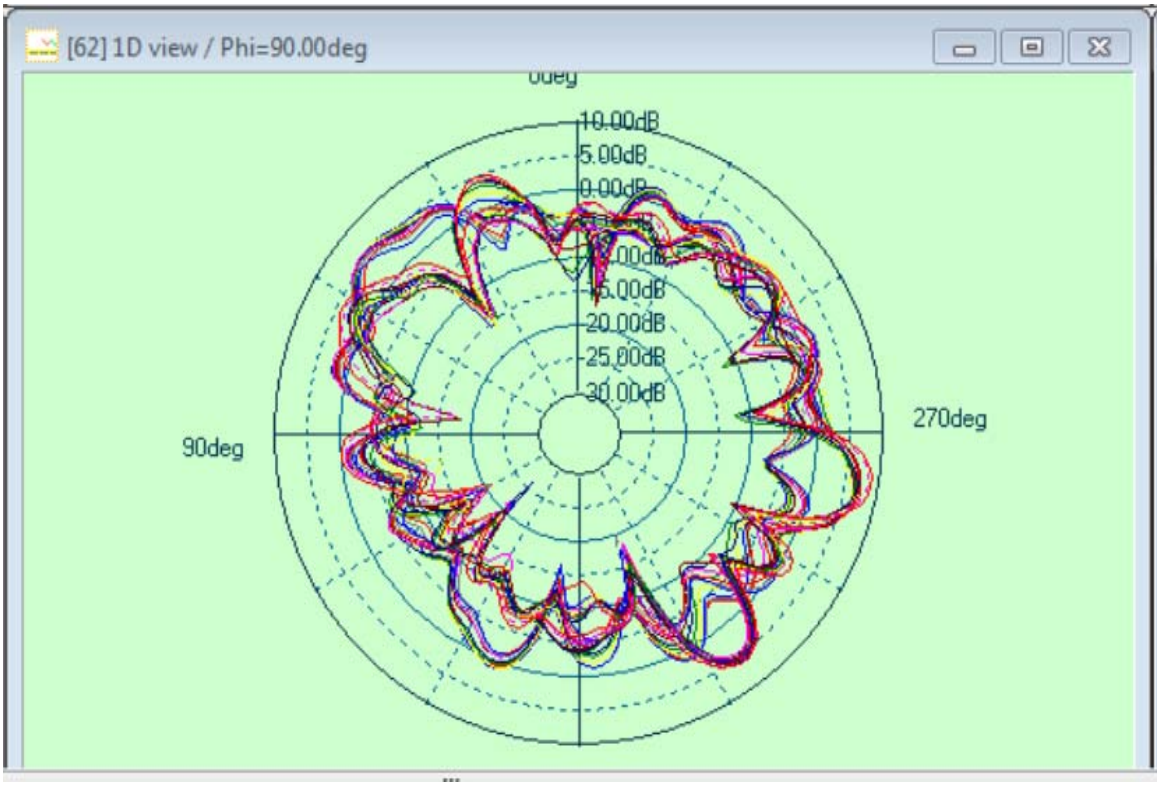
H



E1



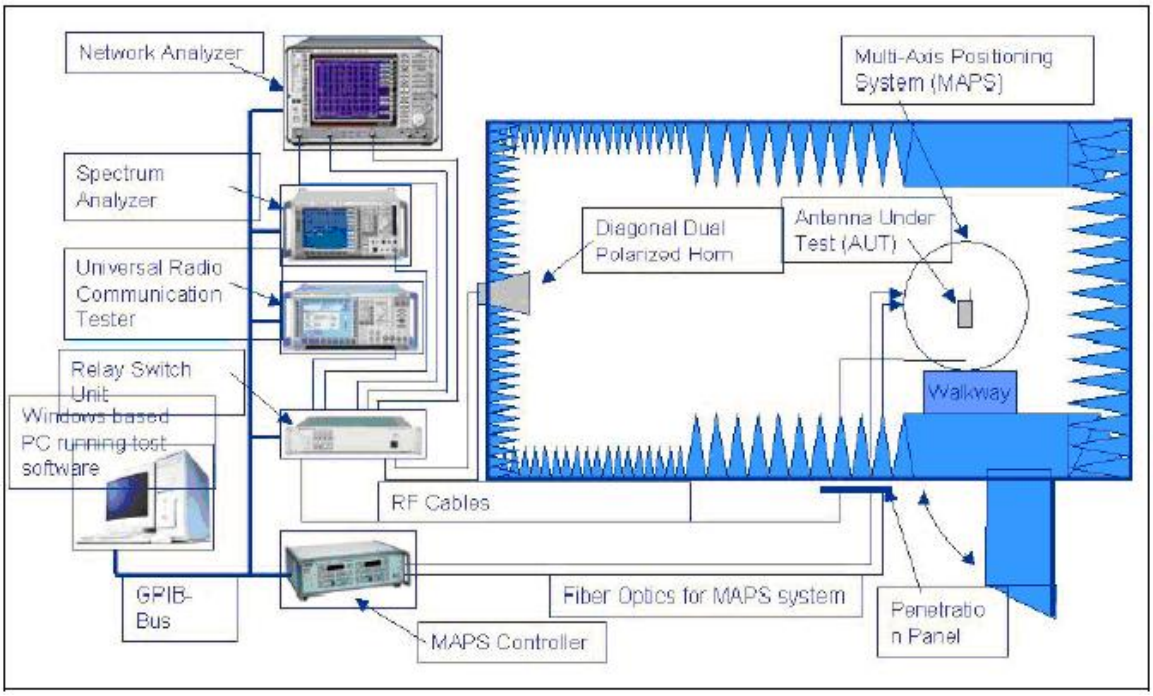
E2



2-2-5 Testing equipment

公司拥有通信行业最领先的法国 Satimo SG24 OTA测试系统1套，ETS OTA 标准测试系统2套，Bluetest 混响暗室1套， MicroPross NFC测试系统1套，能快速稳定的给客户提供精确的测试报告，完全符合CITA标准，支持GSM/CDMA/WCDMA/TD/LTE/WIFI/BT/GPS/MIMO等各制式的有源无源测试。

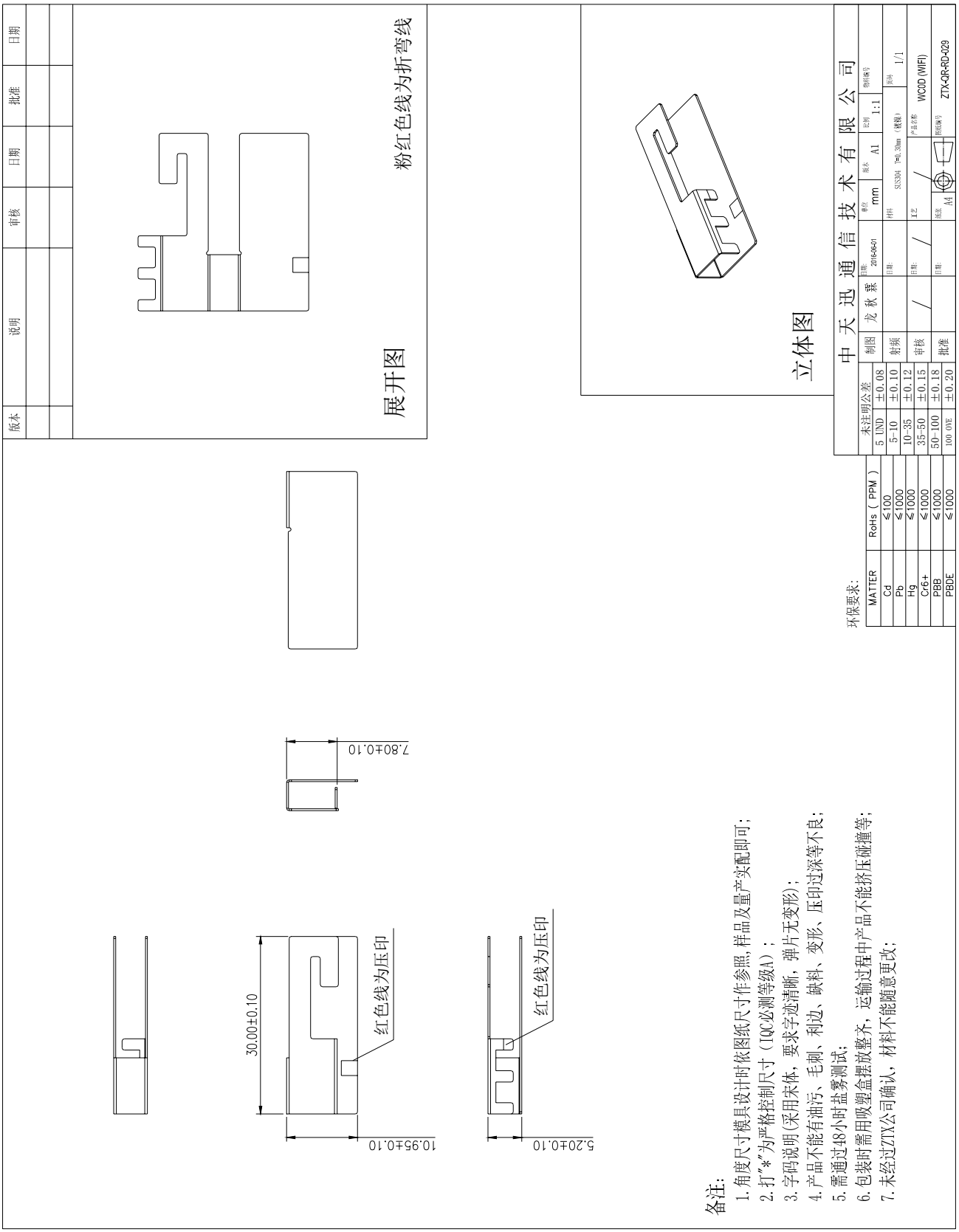
MicroPross NFC系统能满足各运行商测试要求，对NFC设备进行快速性能测试，并输出正式认证测试报告


Network Analyzer
Spectrum Analyzer
Universal Radio Communication Tester
Relay Switch Unit
Windows based PC running test software
GPIB-Bus
RF Cables
MAPS Controller
Fiber Optics for MAPS system
Multi-Axis Positioning System (MAPS)
Diagonal Dual Polarized Horn
Antenna Under Test (AUT)
Walkway
Penetration Panel

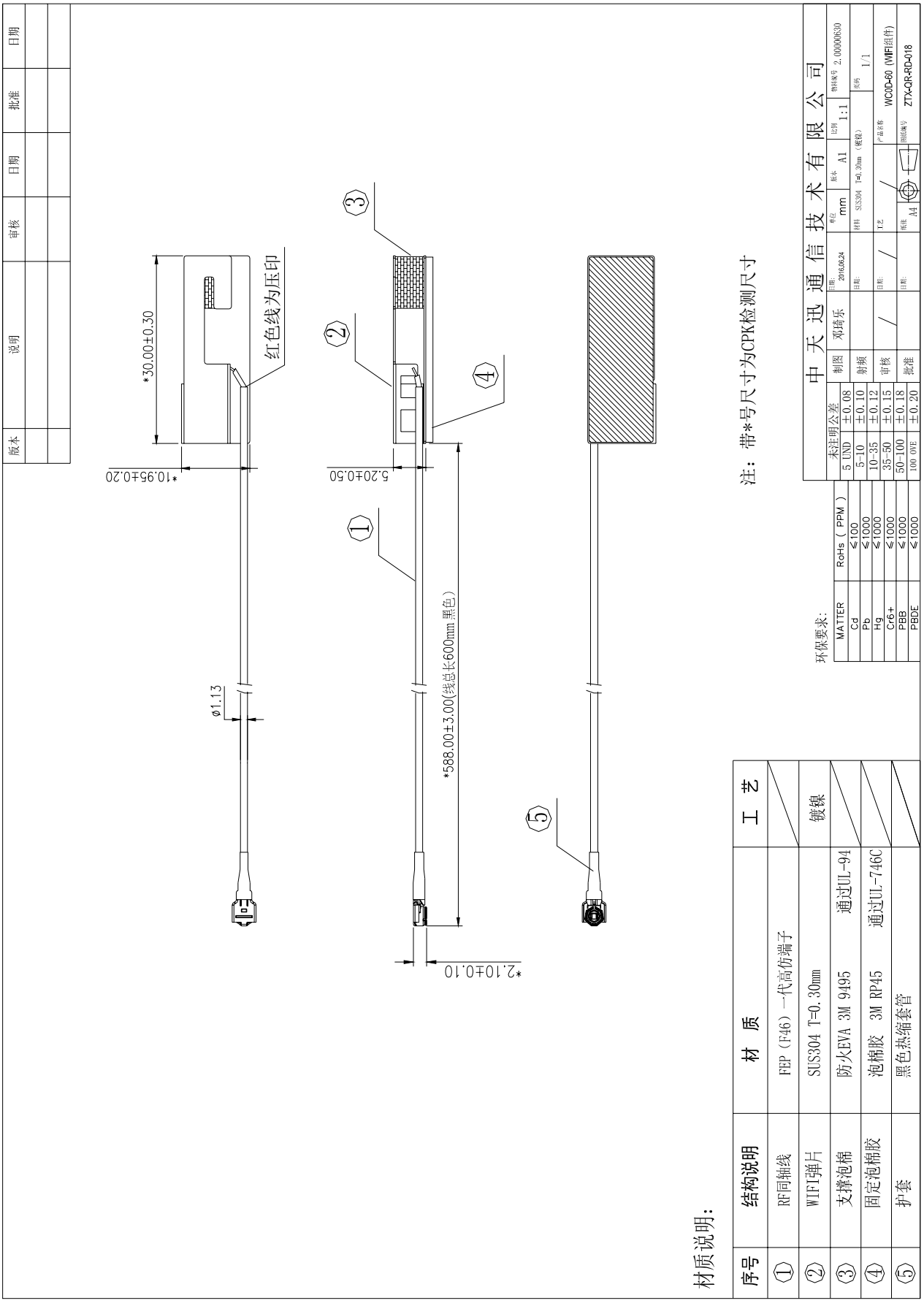
3. Mechanical Specification

3-1 ***Mechanical Configuration***

3-1-1 ***Mechanical Configuration(WIFI2.4G/5G)***



3-1-2 ***Mechanical Configuration(天线组件)***


版本
说明
审核
日期
批准
日期
红色线为压印
*30.00±0.30
*10.95±0.20
5.20±0.50
*588.00±3.00(线总长600mm 黑色)
*2.10±0.10
ø1.13
①
②
③
④
⑤
注：带*号尺寸为CPK检测尺寸
中天迅通信技术有限公司
未注明公差
5 UND ±0.08
5-10 ±0.10
10-35 ±0.12
35-50 ±0.15
50-100 ±0.18
100 OVE ±0.20
制图
邓琦乐
2016.06.24
单位 mm
版本 A1
比例 1:1
材料 SUS304 T=0.30mm (镀镍)
工艺
张数 A4
图纸编号 ZTX-QR-RD-018
物料编号 2.00000630
WC0D-60 (WIFI组件)
环保要求:
MATTER RoHs (PPM)
Cd ≤100
Pb ≤1000
Hg ≤1000
Cr6+ ≤1000
PBB ≤1000
PBDE ≤1000
材质说明:
序号 结构说明 材 质 工 艺
① RF同轴线 FEP（F46）一代高仿端子
② WIFI弹片 SUS304 T=0.30mm 镀镍
③ 支撑泡棉 防火EVA 3M 9495 通过UL-94
④ 固定泡棉胶 泡棉胶 3M RP45 通过UL-746C
⑤ 护套 黑色热缩套管