规 格 承 认 书

SPECIFICATION FOR APPROVAL

日 期： 2013 / 12 / 10
Date

编 号： RD1 31210002
File No.

版 本： 1.0
Revision

客 户
CUSTOMER: _____

客 戶 料 号
CUSTOMER NO: _____

品 名 **Bluetooth Antenna**
PART NAME: _____

供 方 料 号
SUPPLIER NO: _____

送样日期 Date: 2013.11.16 送样数量 Q'TY: PCS

客户确认 **CUST OMER APPROVED BY**		
APPROVAL	CHIEF	SUPERVISOR

供方确认 **SUPPLIER SIGNATURE**		
APPROVAL	CHECK	DESIGN
Shane	**ZhangLian**	**Qinjianyong**

东莞市国旭电子通讯有限公司 业务专用

承认书项目表

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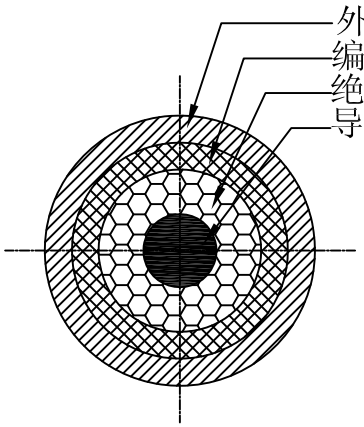
8	N/A	N/A	N/A

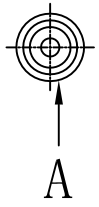
RoHS Compatible

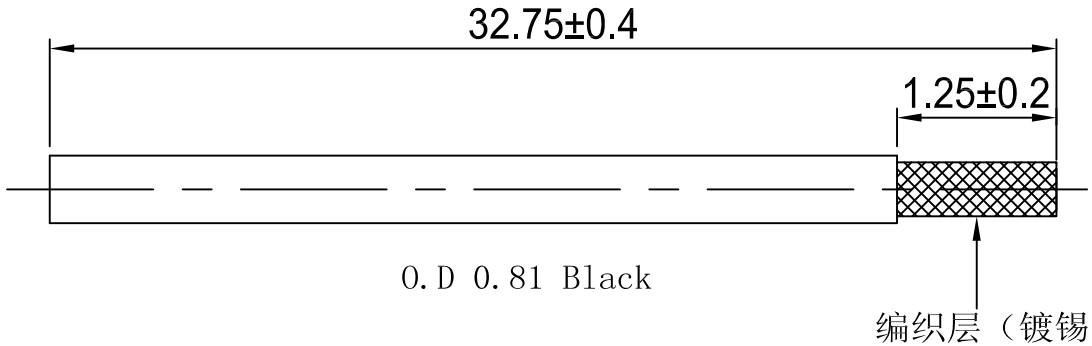
CUSTOMER	
PART NO	

REV.	DESCRIPTION	DATE
A	首次发行	2013.12.10



A-SC4/1





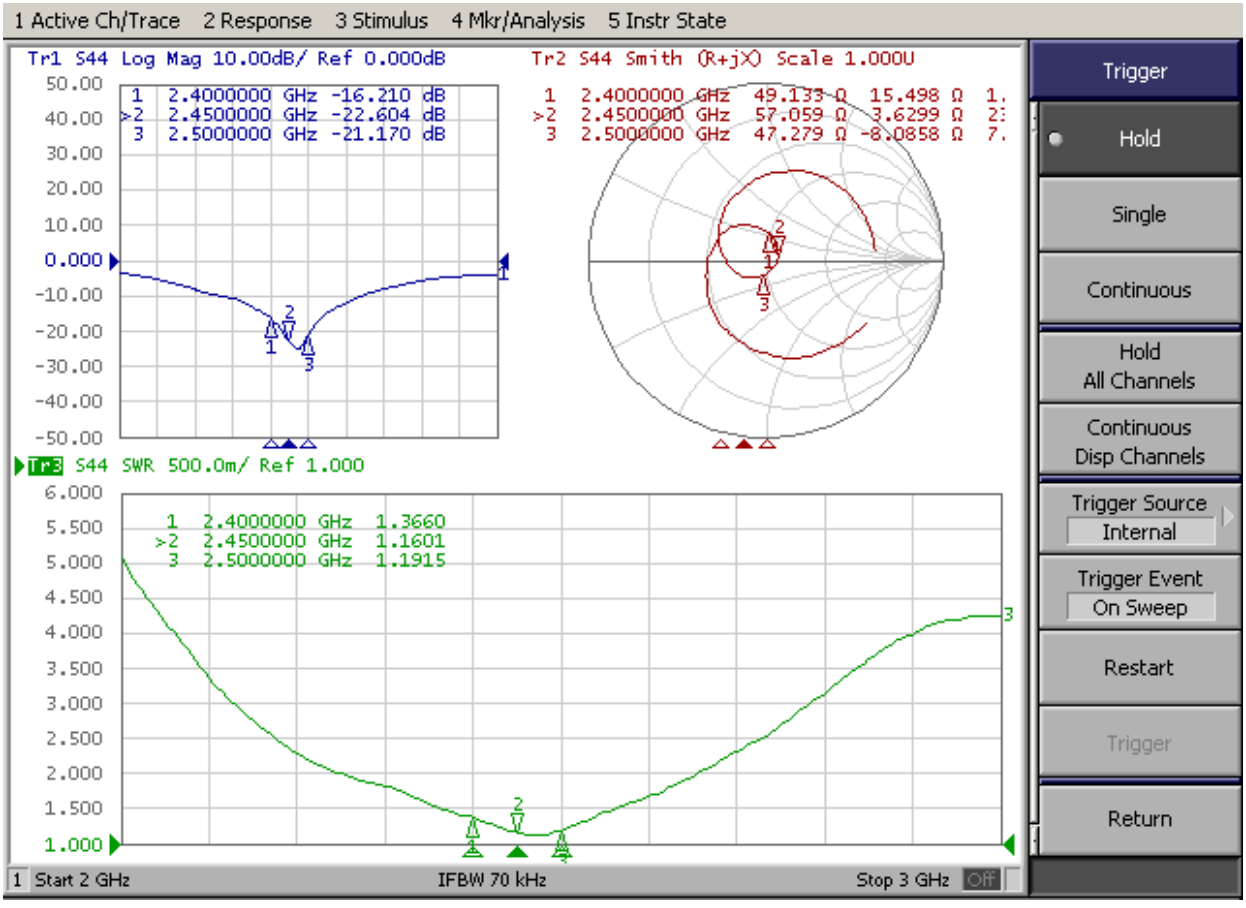
PART NAME: Bluetooth Antenna L=32.75mm Tin				
PART NO.:			DATE: 2013-12-10	
APPROVED BY	CHECKED BY	DESIDNED BY		Tolerance
		覃剑勇	UNITS: mm SCALE: 1/1 REVISION: A	X.X ±0.50 X.XX±0.15 X° ±3°

电 性 测 试 报 告
Test Reports

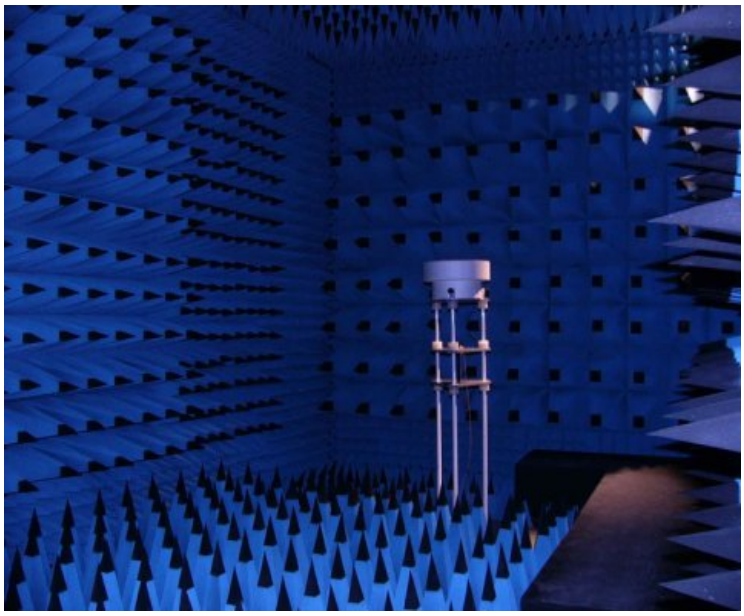
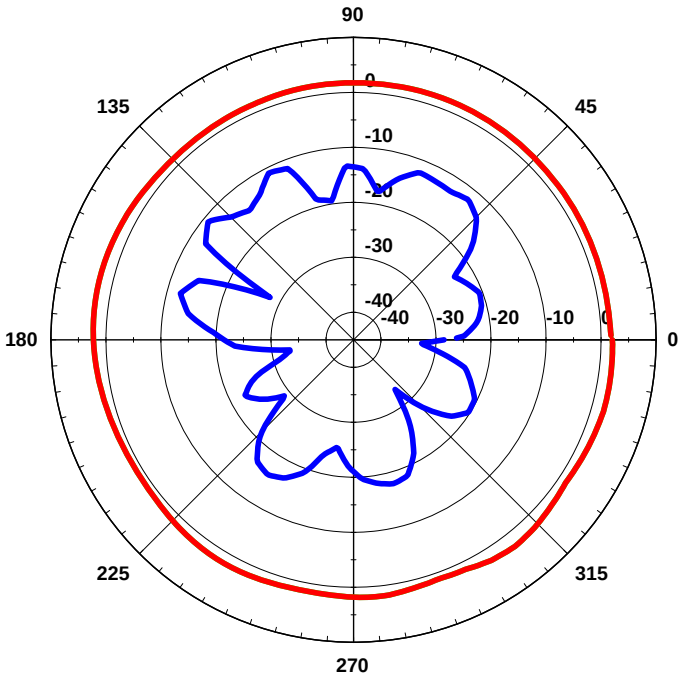
Electrical Properties	
Frequency	2.4GHz
Impedance	50 0hm Nominal
V.S.W.R	1.92 : 1 Max
Return Loss	-10 dB Max
Radiation	Omni-directional
Gain (Peak)	2.5 dBi
Cable Loss	2.3 dB / m Max @ 2450 MHz
Polarization	Linear, Vertical
Admitted Power	1 W
Connector	
Physical Properties	
Antenna Material	FEP CU
Cable Type	O.D 0.81
Operating Temp.	-10 ~ +60 ˚C
Storage Temp.	-10 ~ +70 ˚C
Cable Color	Black

S 参 数 测 试
S Parameter Test

Agilent E5071C	



增 益 测 试
Gain Test

Antenna Radiation Pattern VS Gain	
	

1. 适用范围:
Scope
本规格书制定了 RF0.81 50Ω FEP 绝缘射频电缆的结构和电气特性.
This specification covers the construction and the celec trical properties of RF0.81 50 Ω FEP Insulation Coaxial Cable

2. 结构/Construction:

单位/Unit:mm

项目/Item		详细资料/Details
导体/Conductor	材料/Material	镀银铜线/Silver plated Copper
	构成(根/mm)/Composition(No./mm)	7/0.05±0.005
	标称直径/NOM.O.D	0.15±0.01
绝缘层 /Insulation	材料/Material	聚全氟乙丙烯/FEP
	标称外径/NOM.O.D	0.41±0.03
	颜色/Color	Natural
编织层/Braid Shield	材料/Material	镀锡铜线 Tinned copper
	构成/Composition	16/3/0.05±0.005
	标称直径/NOM.O.D	0.60±0.03
护套/Jacket	材料/Material	聚全氟乙丙烯/FEP
	标称外径/NOM.O.D	0.81±0.05
	颜色/Color	/

3.电气特性(20℃时)/Electrical Properties(at 20℃)

项目/Item	单位/Unit	详细资料/Details	
电容/Capacitance	pF/m	98	
特性阻抗/Conductor Resistance	Ω	50±3.0	
耐压强度/Dielectric Strength	A.C V/1min	1500	
最大工作频率/Max.oper. frequency	MHz	6000	
抗拉强度/Tensile strength	kgf/mm²	1.76	
工作温度范围/Operating Temp.	℃	-55to200	
衰减/Attenuation	/	频率 /Frequency(MHz)	dB/1m
		1000	≤3.6
		2000	≤5.1
		3000	≤6.2
		4000	≤7.5
		5000	≤8.5
		6000	≤9.4
驻波比/Standing wave(0-6GHz)	/	≤1.4	

Test Report

Report No. RLSZF001599260002 Page 1 of 4

Applicant SHENZHEN HILETON TECHNOLOGY CO;LTD
Address B BUILDING 3 FLOOR A, SHIWEI DA TIAN YANG INDUSTRIAL ZONE C, GONGMING OFFICE JIANGSHI COMMUNITY, GUANGMING NEW DISTRICT, SHENZHEN

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name	Coaxial Cable
Part No.	RF1.13/RF0.81RF1.37
Sample Received Date	Mar. 5, 2013
Testing Period	Mar. 5, 2013 to Mar. 9, 2013

Test Requested As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)) in the submitted sample and it was tested as mixture.

Test Method

Test Item(s)	Test Method	Measured Equipment(s)	MDL
Lead(Pb)	IEC 62321:2008 Ed.1 Sec.9	ICP-OES	2 mg/kg
Cadmium(Cd)	IEC 62321:2008 Ed.1 Sec.9	ICP-OES	2 mg/kg
Mercury(Hg)	IEC 62321:2008 Ed.1 Sec.7	ICP-OES	2 mg/kg
Hexavalent Chromium(Cr(VI))	IEC 62321:2008 Ed.1 Annex B	UV-Vis	/

Test Result(s) Please refer to the following page(s).

Tested by Rick Li Reviewed by Vargas He

Approved by Danny Liu Date Mar. 9, 2013

Technical Manager

No. 10784258

Test Report

Report No. RLSZF001599260002

Test Result(s)

Tested Item(s)	Result
Lead(Pb)	N.D.
Cadmium (Cd)	N.D.
Mercury(Hg)	N.D.
Hexavalent Chromium(Cr(VI))	Negative

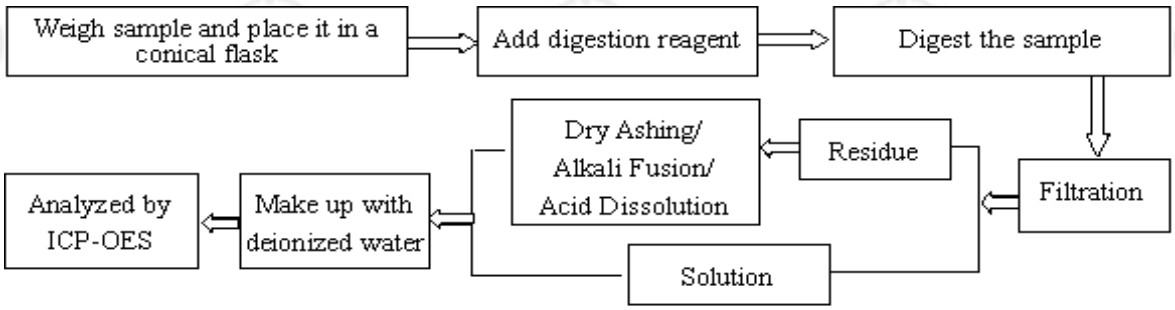
Tested Sample/Part Description Mixed test, metal wire with silvery plating

Note: **The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.**
-MDL = Method Detection Limit
-N.D. = Not Detected (<MDL)
-mg/kg = ppm = parts per million
-Negative = Absence of Cr(VI) , the detected Cr(VI) concentration in the boiling water extraction solution is less than 0.02 mg/kg with 50cm² sample surface area used.

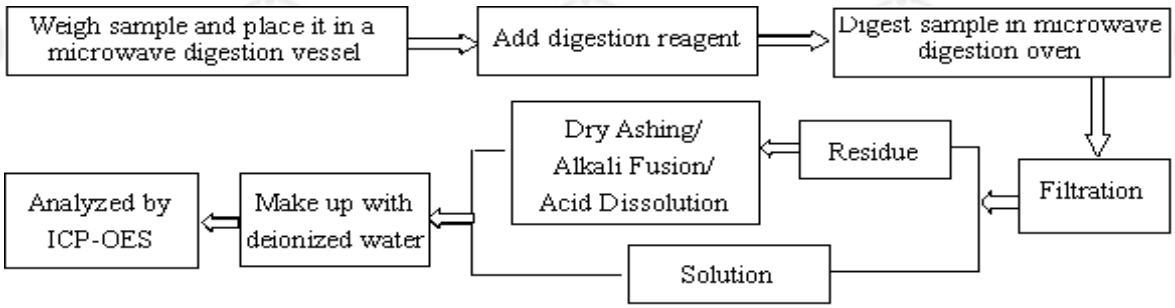
Test Report

Test Process

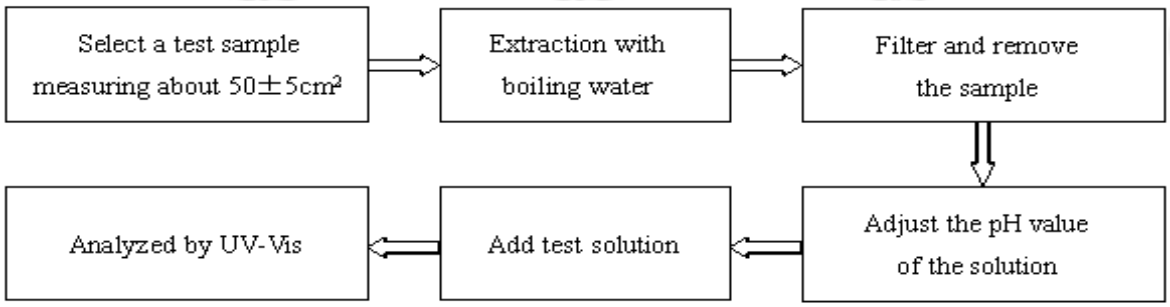
1. Lead(Pb), Cadmium(Cd)



2. Mercury(Hg)



3. Hexavalent Chromium(Cr(VI))



Test Report

Photo(s) of the sample(s)

*** End of report ***