

規格承認書 Approval Sheet

客	户	名	稱
	\boldsymbol{r}	A	7押

70 /U /IT		
Customer Name:	Comtrend	
產品名稱		
Product description:	Ant-1	
泓 淋 料 號		
Hong Lin P/N:	290-50009	
客戶料號	502219-239	
Customer P/N:		
實際之生產地		
Production:	中國 江蘇 常熟	

版 別 日期

Version: X4 Date: 2013/11/14

客戶承認簽印	供應商承認簽印		
CUSTOMER APPROVED BY	VENDER APPROVED BY		
APPROVED 康全電訊股份有限公司 COMTREND CORPORATION by Nick Huang			
Checked By:	Checked By:		
Approval By:	Approval By:		

工廠/Factory:

1) 深圳市寶安區松崗鎮沙浦圍村第二工業區六棟;電話+86-755-27090678;電子信箱: yhh@honglintech.com

Building 6.No.2 Industrial Park, Shapuwei, Songgang Town, Baoan District, Shenzhen, Guangdong, China; Tel:+86-755-27090678; E-mail:yhh@honglintech.com

2) 江蘇省常熟市高新技術產業園柳州路 8 號;電話: +86-512-51538298;電子 信箱: jtk@honglincable.com

No.8 Liuzhou Road, Yushan Industrial Park, Hi-tech Development Zone, Changshu, Jiangsu, China

Tel: +86-512-51538298; E-mail: jtk@honglincable.com



Content

<u>Item</u>	<u>Page</u>
1. Specification (規格表)	1
2. Test data(测试资料)	2
2.1 Antenna location	2
2.2 Return loss	2
2.3 Radiation Pattern	3
2.4 Gain table	4
3. Antenna assembly(成品图)	5
4. Antenna SGS	6-9



1 Specification

1.1 Electrical Properties

1.1.1 Frequency Range----- 2.4GHz~2.5GHz

1.1.2 Impedance----- 50 Ω

1.1.3 VSWR----- \leq 1.92:1 (With Housing)

1.1.4 Return Loss----- -10dB (With Housing)

1.1.5 Peak Gain----- 1.76 dBi

1.1.6 Admitted Power----- 1W

1.1.7 Antenna type----- PIFA type

1.1.8 Polarization------ Vertical, Horizontal

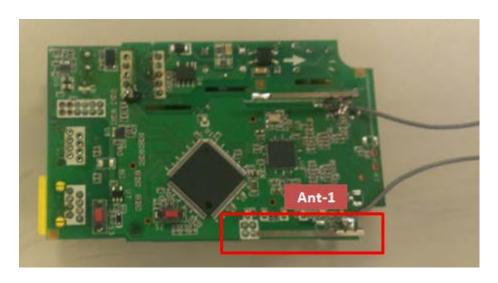
1.2 Physical Properties

- 1.2.1 Antenna Body------SUS430 Plated Ni(不鏽鋼預鍍鎳)
- 1.2.2 Color----- Silver

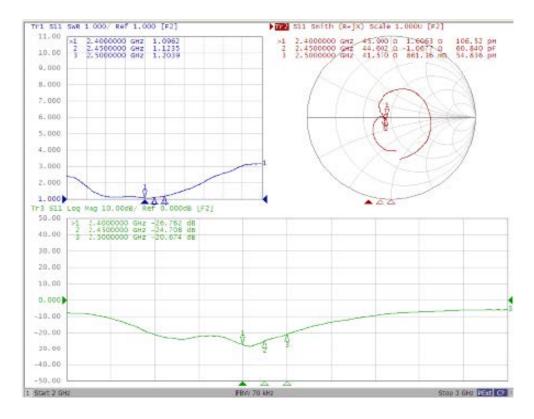


2 Test data

2.1 Antenna location



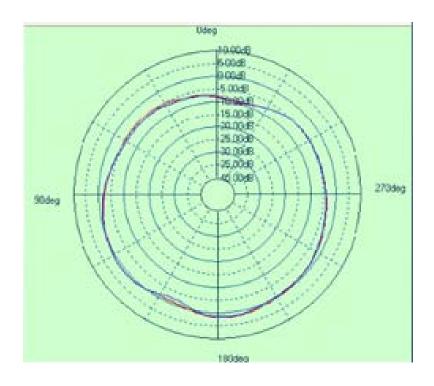
2.2 Return Loss and VSWR



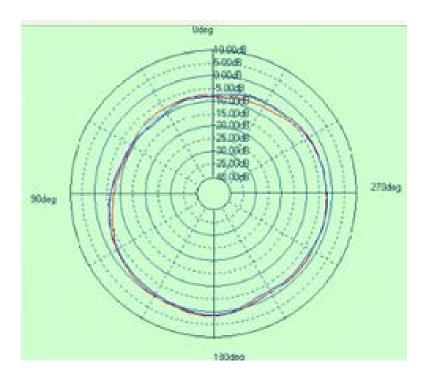


2.3 Radiation Pattern

2.3.1 X-Z plane

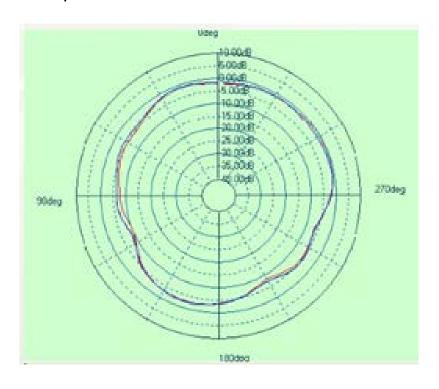


2.3.2 Y-Z plane





2.3.3 X-Y plane

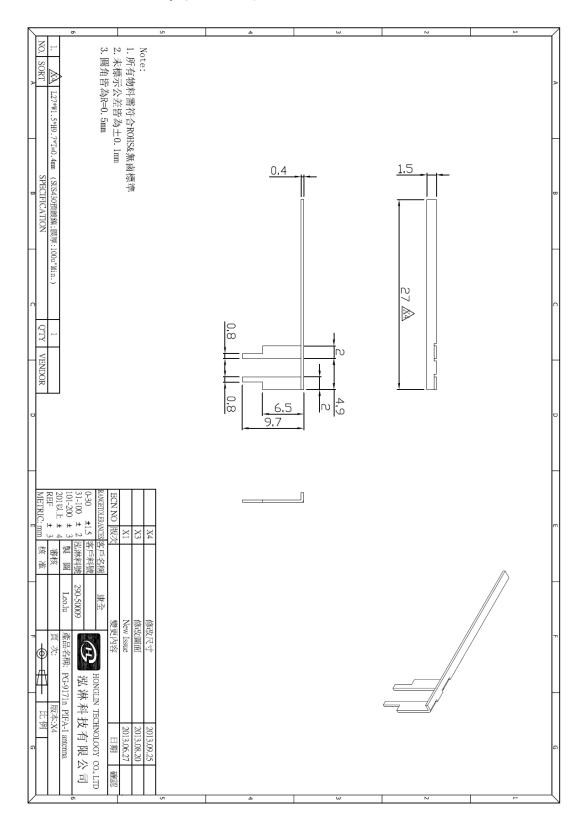


2.4 Gain Table

Fraguency	X-Z plane		Y-Z plane		X-Y plane		E-total	Efficiency
Frequency	Phi=0		Phi=90		theta=90			
/N/I□\	Peak	Average	Peak	Average	Peak	Average	(dBi)	(%)
(MHz)	Gain	Gain	Gain	Gain	Gain	Gain	(ubi)	
2400	1.55	-2.59	1.4	-3.56	-0.37	-3.86	1.74	55%
2450	1.37	-2.56	1.23	-3.42	-0.33	-3.59	1.76	57%
2500	1.25	-2.87	1.14	-3.68	-0.94	-3.62	1.27	56%



3 Antenna Assembly (成品圖)





测试报告

No. SHAMLP1303306401 日期: 2013年03月13日 第1页,共4页

昆山志竟成金属制品有限公司 江苏省昆山市玉山镇玉城南路18号

以下测试之样品是由申请者所提供及确认: SUS430不锈钢

SGS工作编号: SC130301163 - SH

材质牌号: SUS430

样品接收日期: 2013年03月08日

测试周期: 2013年03月08日 - 2013年03月13日

测试要求: 根据客户要求测试

测试方法: 请参见下一页 测试结果: 请参见下一页

通标标准技术服务有限公司 授权签名

JJ Fan 范晶捷 批准签署人

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/terms_and_conditions. The conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability intermediate and intermediate and intermediate attention and jurisdiction issues defined therein. Any holder of this document at information contained hereon reflects the Company's findings at the time of its low contained hereon reflects the Company's findings at the time of its low contained hereon reflects the Company's findings at the time of its low committee and this document does not exonerate parties to a transaction from exercising all the contained hereon reflects the Company. The Company is a focument in the contained hereon reflects the Company is contained hereon reflects the Company. The Company is sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all the contained hereon reflects the Company. The Company is a focument is unlawful and offenders may be prosecuted to the fullest extent of the law.

In the Company is a state of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

In the Company is a state of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



测试报告 No. SHAMLP1303306401 日期: 2013年03月13日 第2页,共4页

测试结果:

测试样品描述:

样品编号SGS样品ID描述1SHA13-033064.001银色金属片

备注:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = 方法检测限

(3) ND = 未检出 (< MDL)

(4) "-" = 未规定

RoHS指令2011/65/EU

测试方法: 参考IEC 62321:2008:

(1) 用ICP-OES测定镉的含量.(2) 用ICP-OES测定铅的含量.(3) 用ICP-OES测定汞的含量.

(4) 用点测试法/紫外-可见分光光度计比色法测定六价铬的含量.

<u>测试项目</u>	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>001</u>
镉 (Cd)	100	mg/kg	2	ND
铅(Pb)	1000	mg/kg	2	ND
汞 (Hg)	1000	mg/kg	2	ND
六价铬(CrVI)	-	-	\Diamond	阴性

备注:

- (1) 最大允许极限值引用自指令2011/65/EU 附录II.
- (2) ◊点测试法:

阴性= 未检测到六价铬,阳性 = 检测到六价铬;

(当点测试结果为阴性或无法确定时,将采用沸水萃取法作进一步的结果验证.)

◇沸水萃取法:

阴性= 未检测到六价铬

阳性= 检测到六价铬; 表明50 cm²表面积的被测试样品的沸水萃取液中六价铬的浓度等于或大于0.02 mg/kg 由于未获知样品的存储条件和生产日期,样品的六价铬测试结果仅能代表测试时样品含六价铬的状态.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, personal transportation and jurisdiction issues defined therein. Any holder of this document information contained hereon reflects the Company's findings at the time of its instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all that the subject is an adobting the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. For exercising all that the subject is a subject in the subject is a subject to the subject in the subject is a subject in the subject in full, without prior written approval of the Company. For exercising all that the subject is a subject in the subject is a subject in the subject in the subject is a subject in the subject in the subject is a subject in the subject in the subject is a subject in the subject in the subject is a subject in the subject in the subject in the subject is a subject in the subject in the subject in the subject is a subject in the subject in the subject in the subject is a subject in the subject in

No.69, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China 201319 t (86-21) 61196300 中国•上海•浦东康桥东路1159弄69号邮编: 201319 t (86-21) 61196300

f (86-21) 68183122/68183920 www.cn.sgs.com f (86-21) 68183122/68183920 e sgs.china@ sgs.com



测试报告

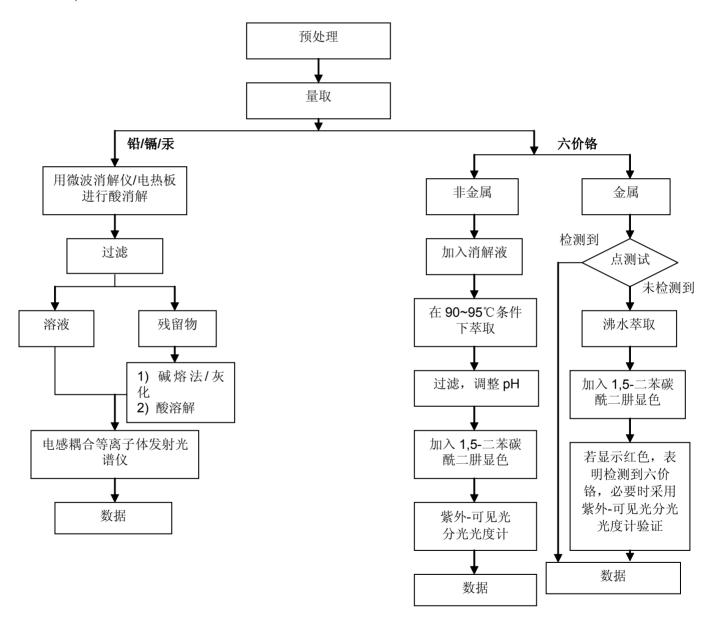
No. SHAMLP1303306401

日期: 2013年03月13日 第3页,共4页

附件

RoHS 测试流程图

- 1) 分析人员: 施青/王彦青/肖飞
- 2) 项目负责人: 张春华/徐亮
- 3) 样品按照下述流程被完全消解(六价铬测试除外)



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at httm.and.for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability indexemine and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its loss sole responsibility is to its Client and this document does not exonerate parties to a transaction for processoricising all lightly in the finding support in full, without prior written approval of the Company. It is unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

The company of the company of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

No.69, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China 201319 t (86-21) 61196300 中国·上海·浦东康桥东路1159弄69号邮编: 201319 t(86-21)61196300

f (86-21) 68183122/68183920 f (86-21) 68183122/68183920 e sgs.china# sgs.com

www.cn.sgs.com



测试报告

No. SHAMLP1303306401

日期: 2013年03月13日 第4页,共4页

样品照片:



此照片仅限于随SGS正本报告使用

*** 报告完 ***

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/terms_and_conditions. Its document is a way subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability intermediated at information contained hereon reflects the Company's findings at the time of its intermediated at information contained hereon reflects the Company's findings at the time of its intermediated at information contained hereon reflects the Company's findings at the time of its intermediated and this document does not exonerate parties to a transaction from exercising all the produced except in full, without prior written approval of the Company. The Company is a state of the intermediated and such examples are retained for 30 days could be samples are retained for 30 days could be contained and such examples are retained for 30 days could be contained. on, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law e results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.