

# 产品规格书

## SPECIFICATION

客户：

CUSTOMER：

供应商：深圳壹能芯科技有限公司

SUPPLIER：

产品名称：黑色外置108MM可折天线（2.4G/5.8G）

DESCRIPTION：

产品编码：

MATERIAL CODE:

供应商产品名称：黑色外置**108MM**可折天线（**2.4G/5.8G**）

SUPPLIER PRODUCT NAME:

供应商物料编码：

SUPPLIER MATERIAL CODE:

日期：2022.9.28

DATE:

| 供应商<br>SUPPLIER   |                  |                   |
|-------------------|------------------|-------------------|
| 拟制<br>PREPARED BY | 审核<br>CHECKED BY | 批准<br>APPROVED BY |
|                   |                  |                   |

| 客户<br>CUSTOMER    |                  |                   |
|-------------------|------------------|-------------------|
| 承认<br>ACCEPTED BY | 审核<br>CHECKED BY | 批准<br>APPROVED BY |
|                   |                  |                   |

备注：承认盖章后请回复一份承认书或复印件给我司，其余由贵公司存档。

REMARK: Please send us one or copy of this approval with stamp after accepting, other copies filed by the customer.

地址: 深圳市龙华区

ADD:

邮编Postal code：

电话Tel:0755-

传真Fax:0755-

Http:

## 修订履历

## REVISION HISTORY

[illegible]

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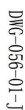
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四. 产品参数

2.4G/5.8G双频橡胶天线

| 表1    |                   |                     |           |
|-------|-------------------|---------------------|-----------|
| NO    | 项目                | 特性                  | 实验室允许附加误差 |
| 4.1.1 | 接收频率范围            | 2.4G-2.5G/5.1G-5.8G | ——        |
| 4.1.2 | 电压驻波比             | 对比波形                | ——        |
| 4.1.3 | 方向性               | Omni-directional    | ——        |
| 4.1.4 | Radiating element | 1/4 Ware Helical    | ——        |
| 4.1.5 | 线化方式              | Linear Vertical     | ——        |
| 4.1.6 | 功率                | 1W                  | ——        |
| 4.1.7 | 特性阻抗              | 50 OHM              | ——        |
| 4.1.8 | 接头型号              | SMA                 | ——        |
| 4.1.9 | 重量                | 7.57g               | ±0.3g     |

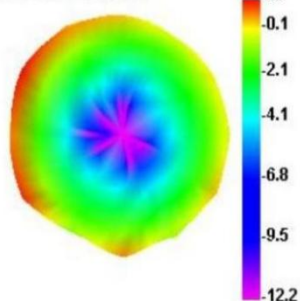
## 2. 4G/5.8G双频橡胶天线



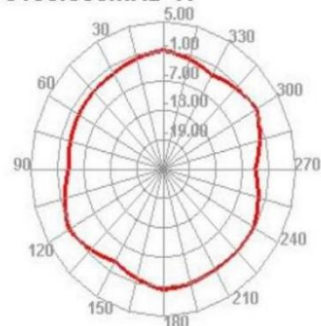
## 六：暗室测试报告

| Passive Test For 5150-5850 |             |              |               |            |            |             |             |                |                |
|----------------------------|-------------|--------------|---------------|------------|------------|-------------|-------------|----------------|----------------|
| Freq<br>(MHz)              | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) | UHS<br>(%) | DHS<br>(%) | Max<br>(dB) | Min<br>(dB) | Attenut<br>Hor | Attenut<br>Ver |
| 5150                       | 57.5        | -2.4         | 1.29          | 35.8       | 21.768     | 1.29        | -12.22      | 59.04          | 58.22          |
| 5220                       | 61.2        | -2.13        | 1.67          | 37.7       | 23.494     | 1.67        | -11.29      | 58.69          | 58.07          |
| 5290                       | 63          | -2.01        | 1.75          | 37.7       | 25.293     | 1.75        | -11.12      | 58.96          | 58.16          |
| 5360                       | 52.7        | -2.78        | 1.51          | 30.7       | 22.058     | 1.51        | -17.05      | 59.02          | 58.59          |
| 5430                       | 75.9        | -1.2         | 2.95          | 42         | 33.867     | 2.95        | -23.77      | 60.59          | 59.65          |
| 5500                       | 64.2        | -1.93        | 2.26          | 34.7       | 29.484     | 2.26        | -19.56      | 60.82          | 59.59          |
| 5570                       | 48.2        | -3.17        | 1.17          | 25.7       | 22.509     | 1.17        | -17.07      | 62.12          | 60.71          |
| 5640                       | 76.9        | -1.14        | 2.8           | 41.1       | 35.811     | 2.8         | -12.97      | 62.52          | 61.91          |
| 5710                       | 63.6        | -1.96        | 1.55          | 33.3       | 30.287     | 1.55        | -14.87      | 62.36          | 61.76          |
| 5780                       | 59.8        | -2.24        | 1.12          | 31.4       | 28.336     | 1.12        | -12.43      | 62.8           | 62.24          |
| 5850                       | 52.9        | -2.77        | 0.73          | 28.2       | 24.658     | 0.73        | -11.96      | 63.41          | 62.86          |

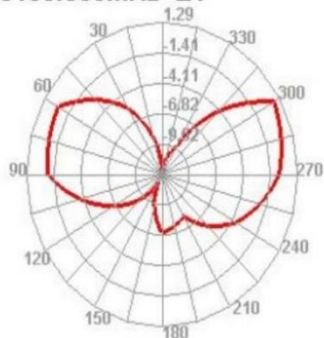
5150.000MHz



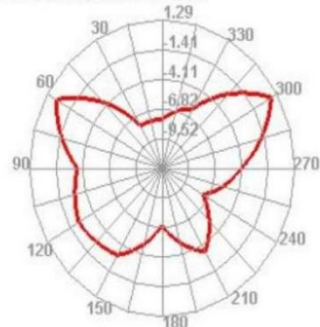
5150.000MHz H



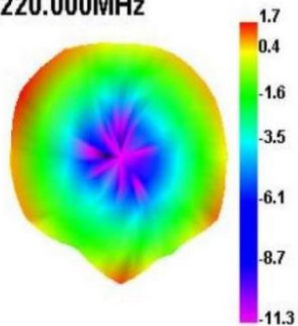
5150.000MHz E1



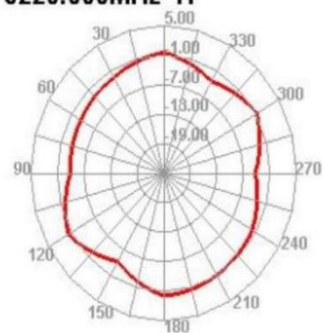
5150.000MHz E2



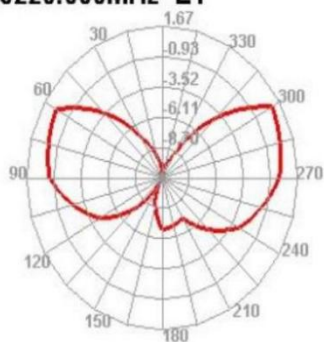
5220.000MHz



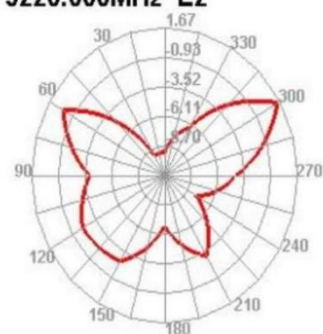
5220.000MHz H



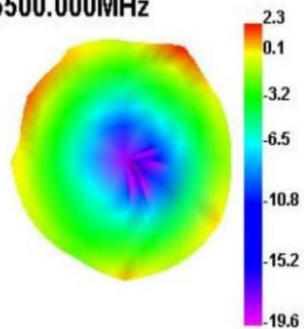
5220.000MHz E1



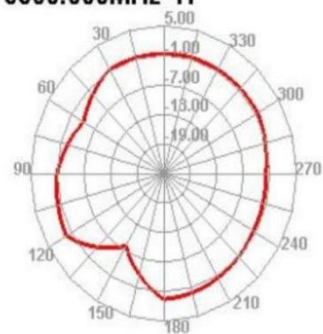
5220.000MHz E2



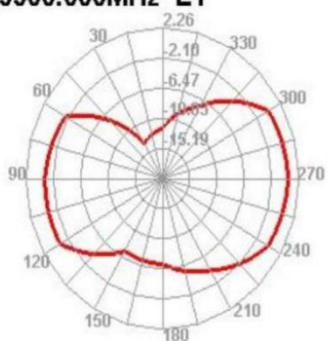
5500.000MHz



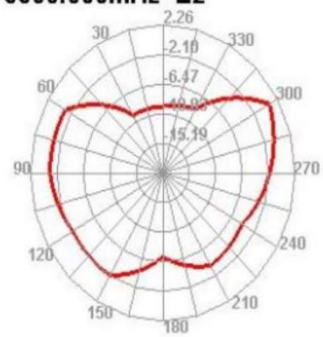
5500.000MHz H



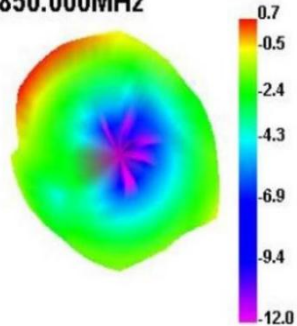
5500.000MHz E1



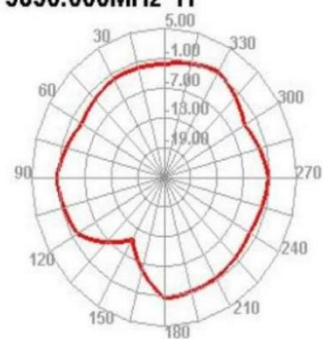
5500.000MHz E2



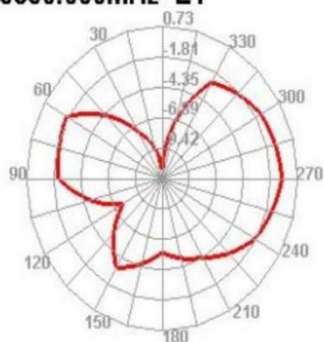
5850.000MHz



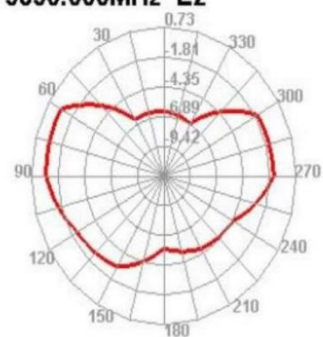
5850.000MHz H



5850.000MHz E1

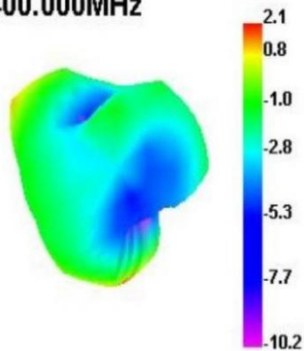


5850.000MHz E2

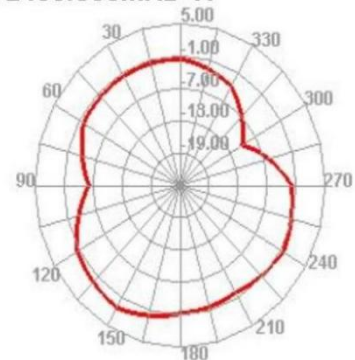


| Passive Test For 2400-2500 |             |              |               |            |             |             |             |                |                |
|----------------------------|-------------|--------------|---------------|------------|-------------|-------------|-------------|----------------|----------------|
| Freq<br>(MHz)              | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) | UHS<br>(%) | DHIS<br>(%) | Max<br>(dB) | Min<br>(dB) | Attenut<br>Hor | Attenut<br>Ver |
| 2400                       | 62.4        | -2.05        | 2.06          | 26.7       | 35.695      | 2.06        | -10.16      | 48.55          | 48.51          |
| 2410                       | 62          | -2.08        | 1.81          | 26.8       | 35.218      | 1.81        | -9.81       | 48.59          | 48.53          |
| 2420                       | 56.2        | -2.5         | 1.17          | 24.5       | 31.7        | 1.17        | -10.26      | 48.73          | 48.42          |
| 2430                       | 53.4        | -2.73        | 0.73          | 23.7       | 29.639      | 0.73        | -10.6       | 48.44          | 48.12          |
| 2440                       | 60.9        | -2.16        | 1.05          | 27.6       | 33.234      | 1.05        | -9.96       | 48.55          | 48.21          |
| 2450                       | 64.7        | -1.89        | 1.02          | 30         | 34.742      | 1.02        | -9.68       | 48.76          | 48.47          |
| 2460                       | 60.5        | -2.19        | 0.47          | 28.6       | 31.893      | 0.47        | -10.02      | 49.04          | 48.68          |
| 2470                       | 57.3        | -2.42        | 0.19          | 27.4       | 29.903      | 0.19        | -10.08      | 48.91          | 48.68          |
| 2480                       | 63.6        | -1.97        | 0.57          | 30.8       | 32.767      | 0.57        | -9.97       | 48.86          | 48.43          |
| 2490                       | 73.2        | -1.35        | 1.21          | 36         | 37.26       | 1.21        | -9.61       | 49.07          | 48.72          |
| 2500                       | 69.7        | -1.57        | 1.06          | 34.7       | 35.013      | 1.06        | -10.33      | 49.21          | 48.76          |

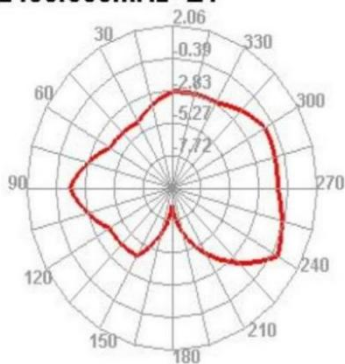
2400.000MHz



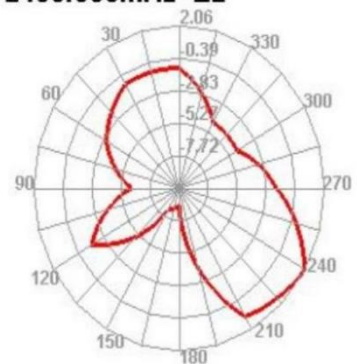
2400.000MHz H



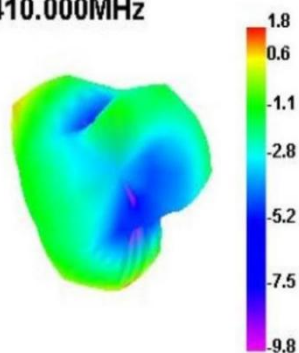
2400.000MHz E1



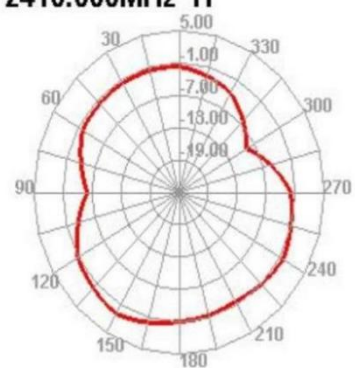
2400.000MHz E2



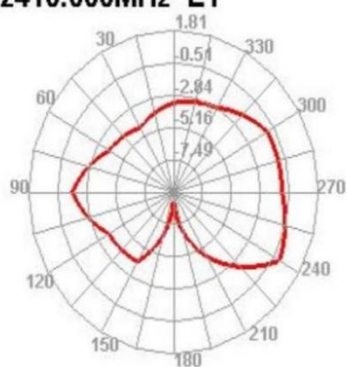
2410.000MHz



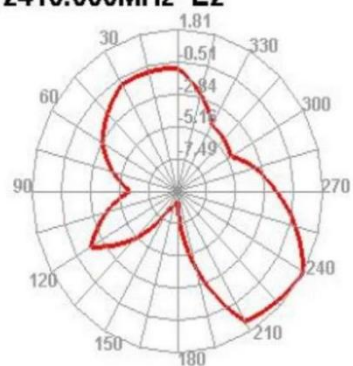
2410.000MHz H



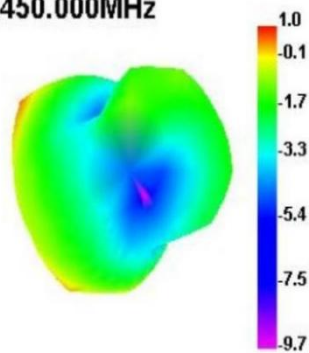
2410.000MHz E1



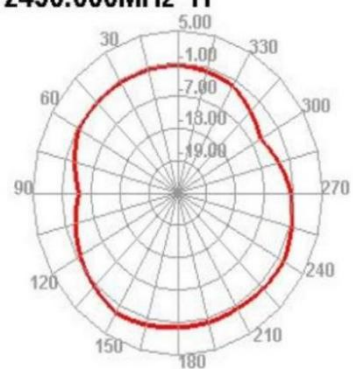
2410.000MHz E2



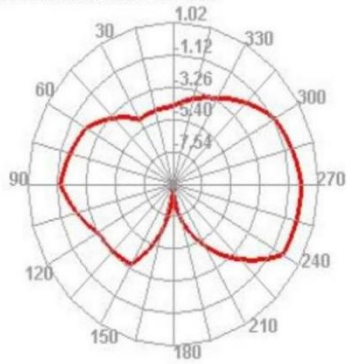
2450.000MHz



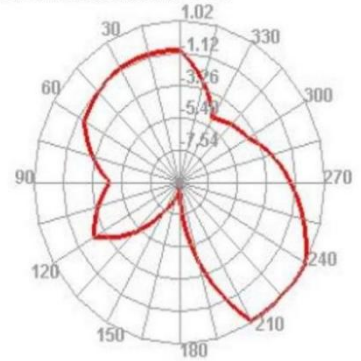
2450.000MHz H



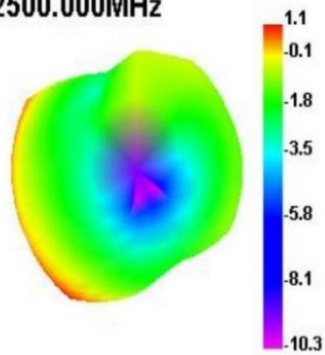
2450.000MHz E1



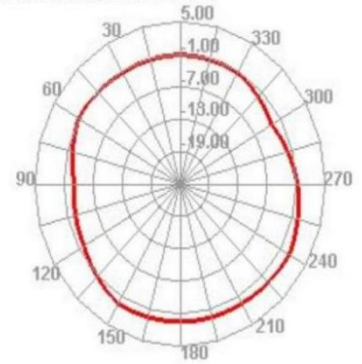
2450.000MHz E2



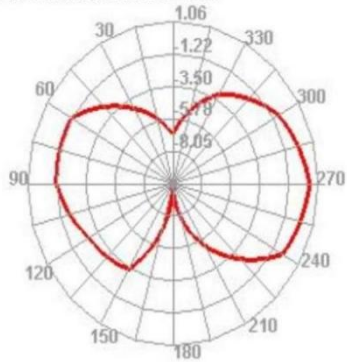
2500.000MHz



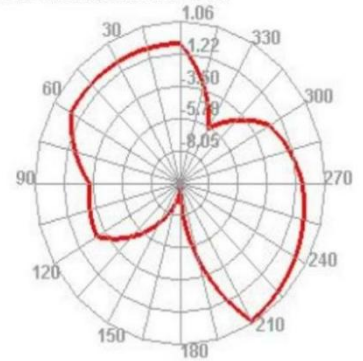
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



## 七.试验检测.

| 项目      | 测试条件                                                                                | 规格                 |
|---------|-------------------------------------------------------------------------------------|--------------------|
| 储存环境    | 在没有指定的情况下测试温度，湿度，气压如下：<br>1， 温度为-30℃~+80℃<br>2， 相对湿度为 45%-85%<br>3 气压为 86kpa-106kpa | 电气机械性能正常           |
| 电压驻波比   | 在 70℃于 40℃之间进行 5 次循环，然后在正常条件下 1-2H，检查外观质量                                           | 尺寸应满足规定并应满足机械，电器性能 |
| 耐恒定湿热试验 | 相对湿度 95±3%，试验温度：40℃，持续 2H 作用后，试品去除后 5min 之内测定电器性能，试品在正常条件下 1-2H，检查外观质量。             | 尺寸应满足规定并应满足机械，电器性能 |
| 振动试验    | 振动范围 10-55HZ，位移幅值：0.35MM 加速度幅值：50.0M/S，扫频循环次数：30 次                                  | 电气机械性能正常           |
| 拉拔力测试   | 1M 高空按照互相垂直的轴方向自由跌落 3 次                                                             | 电气机械性能正常           |
| 耐压力     | 1. 绝缘火花电压 1.5KV<br>2. 护套火花电压 1.5KV<br>3. 绝缘对护套耐电压 0.5KV                             | 电气机械性能正常           |
| 扭力测试    | 固定螺套，扭力计测试往 360 度方向扭动时测试值 $\geq$ 2N                                                 | 无扭力不良              |

八：环境监测

环境测试要求

| 序 | 测试项目 | 测试方法及条件                                                                        | 测试设备                         | 测试结果              |
|---|------|--------------------------------------------------------------------------------|------------------------------|-------------------|
| 1 | 温湿测试 | 参考 EIA 364-31 方法三，测试条件 A<br>本测试程序的目的是，详细的标准试验方法中所用的产品，它们由高湿度和热的影响，影响材料的性能进行评价。 | K.SON INS<br><br>THS-A4L-150 | <div>PASSED</div> |
|   |      | 要求：<br><br>温度：70℃<br>湿度：90~95% (R. H)<br>时间：72 小时                              |                              |                   |
| 2 | 低温测试 | 所测样品应放置于一个恒温环境中，其温度设定在-20℃                                                     | K.SON INS<br><br>THS-A4L-150 | <div>PASSED</div> |
|   |      | 要求：<br><br>时间：24 小时                                                            |                              |                   |
| 3 | 高温测试 | 所测样品应放置于一个恒温环境中，其温度设定在 70℃.                                                    | K.SON INS<br><br>THS-A4L-150 | <div>PASSED</div> |
|   |      | 要求：<br><br>时间：24 小时                                                            |                              |                   |
| 4 | 冷热冲击 | 所测样品应放置于一个固定环境中，其温度设定为-20~80℃.                                                 | K.SON INS<br><br>THS-A4L-150 | <div>PASSED</div> |
|   |      | 要求：<br><br>8 小时以上.(30 分钟/次，12 周期)                                              |                              |                   |

## 九. 包装说明报告

### 鹽水噴霧試驗報告 SALT SPRAY TEST REPORT

|         |                                                                                                                                                                                                                                                                 |        |                                 |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------------|
| 廠商名稱    | 永艺发                                                                                                                                                                                                                                                             | 報告編號   | 20181220-01                     |
| 產品品名    | SMA                                                                                                                                                                                                                                                             | 試驗日期   | 2018.12.20 9:00-2018.12.22 9:00 |
| 產品料號    | A031-SMA-C-001                                                                                                                                                                                                                                                  | 試驗設備   | 鹽霧試驗機                           |
| 產品材質    | 黃銅                                                                                                                                                                                                                                                              | 電鍍規格   | 鍍金                              |
| 送檢單位    | OQC                                                                                                                                                                                                                                                             | 樣品數量   | 5PCS                            |
| 試驗條件    |                                                                                                                                                                                                                                                                 |        |                                 |
| 鹽水試驗濃度  | 5%                                                                                                                                                                                                                                                              | 壓縮空氣壓力 | 1.00±0.01kgf/cm <sup>2</sup>    |
| 試驗室溫度   | 35℃±1℃                                                                                                                                                                                                                                                          | 樣品放置角度 | 15°-30°                         |
| 鹽水桶溫度   | 47℃±1℃                                                                                                                                                                                                                                                          | 噴霧收集量  | 1.0-2.0ml/80cm <sup>2</sup> /hr |
| 試驗室相對溫度 | 85%                                                                                                                                                                                                                                                             | PH值    | 6.5-7.2                         |
| NACL    | 分子量58.6                                                                                                                                                                                                                                                         | 試驗時間   | 48H                             |
| 試驗結果    |                                                                                                                                                                                                                                                                 |        |                                 |
| 樣品編號    | 樣品檢驗描述                                                                                                                                                                                                                                                          |        | 判定                              |
| 1       | 表面無氧化、無發綠現象                                                                                                                                                                                                                                                     |        | OK                              |
| 2       | 表面無氧化、無發綠現象                                                                                                                                                                                                                                                     |        | OK                              |
| 3       | 表面無氧化、無發綠現象                                                                                                                                                                                                                                                     |        | OK                              |
| 4       | 表面無氧化、無發綠現象                                                                                                                                                                                                                                                     |        | OK                              |
| 5       | 表面無氧化、無發綠現象                                                                                                                                                                                                                                                     |        | OK                              |
| 判定      | ( <input checked="" type="checkbox"/> ) 合格 ( <input type="checkbox"/> ) 不合格                                                                                                                                                                                     |        |                                 |
| 檢測說明    | ( <input type="checkbox"/> ) 依客戶要求檢測 ( <input type="checkbox"/> ) 新產品驗證 ( <input type="checkbox"/> ) 樣品評估檢測<br>( <input type="checkbox"/> ) 進料檢驗 ( <input type="checkbox"/> ) 制程檢驗 ( <input checked="" type="checkbox"/> ) 出貨檢驗 ( <input type="checkbox"/> ) 其它 |        |                                 |
| 備註      | 1. 檢驗條件：照明度710路克斯（LUX）以上眼睛離被視物30公分，檢驗時間為5秒；<br>2. 鹽霧測試依目視判定其切割面，彎曲、吊懸接點處算起5mm之內不考慮；<br>3. 依標準圖（GB1266-86）判定腐蝕等級，4等級以上，判定合格；<br>4. 參考資料：GB/T 2423.17-93 EIATP-26A ISO3768；                                                                                       |        |                                 |

核准：鄭婷婷

實驗員：張困妹

保存期限：三年

文件編號：R20-04 A/0

## 十. 包装说明报告

**PE**包裝袋 天线**100PCS/包**、馈线 **200PCS/包**；

外包装标签上须含有以下信息：供应商名称、客户料号、物料名称、**RoHS**标签、包装数量、生产日期

**Package by PE bags, Antenna 100PCS/ bag, Feeder line 200PCS/ bag;**

**The carton label shall contain the following information: supplier name, customer material number,**

**1. 供方所提供样品及量产物料均需满足上述技术要求**

**1. Product samples provided by the supplier and the amount of material must meet the technical requirements**

**2. 每页及所有附件每一页均需加盖供方公章确认**

**2. Each page and all the attachments were confirmed need official seal of the supplier**

**3. 每项页数不够填写时供方可以自行增加**

**3. Each page not enough to fill out, the supplier can increase on its own**

**4. 技术规格书必须于试产前提供，且需作为物料承认的基本条件**

**4. Technical specification must be provided prior to trial production, and need to be admitted as the basic condition material**

# 十一：环境测试报告



## Test Report

No. SHAEC1811665907

Date: 05 Jun 2018

Page 1 of 4

SUZHOU SHENG FU TECH METAL MATERIALS CO.,LTD  
DEV.ZONE,SHAXI TOWN,TAICANG CITY,SUZHOU JIANGSU CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : BRASS METAL

SGS Job No. : SP18-018263 - SUZ  
Model No. : C3604  
Date of Sample Received : 01 Jun 2018  
Testing Period : 01 Jun 2018 - 05 Jun 2018  
Test Requested : Selected test(s) as requested by client.  
Test Method : Please refer to next page(s).  
Test Results : Please refer to next page(s).  
Conclusion : Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of  
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

*Dora Hu*

Dora Hu  
Approved Signatory



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## Test Report

No. SHAEC1811665907

Date: 05 Jun 2018

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### Test Results :

### Test Part Description :

| Specimen No. | SGS Sample ID    | Description  |
|--------------|------------------|--------------|
| SN1          | SHA18-116659.004 | Yellow metal |

### Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

### RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013 and IEC62321-7-1:2015, analyzed by ICP-OES, AAS and UV-Vis .

| Test Item(s)                  | Limit | Unit   | MDL  | 004    |
|-------------------------------|-------|--------|------|--------|
| Cadmium (Cd)                  | 100   | mg/Kg  | 2    | 5      |
| Lead (Pb)                     | 1000  | mg/Kg  | 2    | 19872▲ |
| Mercury (Hg)                  | 1000  | mg/Kg  | 2    | ND     |
| Hexavalent Chromium (Cr(VI))▼ | -     | µg/cm² | 0.10 | ND     |

### Notes :

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.  
IEC 62321 series is equivalent to EN 62321 series  
[http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP\\_ORG\\_ID,FSP\\_LANG\\_ID:1258637,25](http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25)
- (2) ▼ = a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm².  
The sample coating is considered to contain CrVI  
b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating  
c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination  
Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.
- (3) ▲ According to the declaration from the client, Lead (Pb) in No.004 is exempted by EU RoHS directive 2011/65/EU based on [ANNEX III 6(c)]: Copper alloy containing up to 4 % lead by weight.



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Test Report

No. SHAEC1811665907

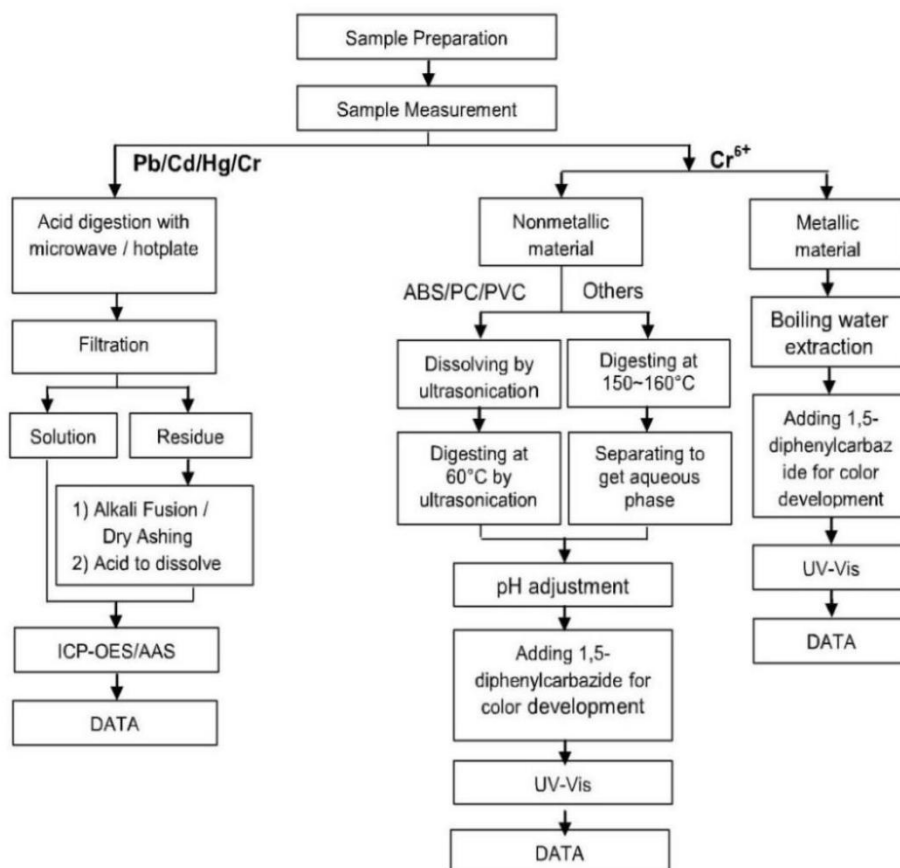
Date: 05 Jun 2018

Page 3 of 4

## ATTACHMENTS

### Pb/Cd/Hg/Cr<sup>6+</sup> Testing Flow Chart

- 1) Name of the person who made testing: Meria Jin/Xiaolong Yang/Sielina Song
- 2) Name of the person in charge of testing: Jan Shi/Luna Xu/Shara Wang
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart.  
(Cr<sup>6+</sup> test method excluded)



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## Test Report

No. SHAEC1811665907

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Sample photo:



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## Test Report

No. SZXEC1801073602

Date: 13 Jul 2018

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SHENZHEN DINGCHENG PLASTIC TECHNOLOGY CO.,LTD.

NO.33 SONGLUO ROAD,SONGGANG STREET,BAO'AN DISTRICT,SHENZHEN CITY

The following sample(s) was/were submitted and identified on behalf of the clients as : TPEE

SGS Job No. : RP18-010548 - SZ

Date of Sample Received : 10 Jul 2018

Testing Period : 10 Jul 2018 - 13 Jul 2018

Test Requested : Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Conclusion : Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Tina

Tina Fan  
Approved Signatory



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## Test Report

No. SZXEC1801073602

Date: 13 Jul 2018

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Test Results :

### Test Part Description :

| Specimen No. | SGS Sample ID    | Description          |
|--------------|------------------|----------------------|
| SN1          | SZX18-010736.002 | Black plastic grains |

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

### RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC62321-7-2:2017, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

| Test Item(s)                 | Limit | Unit  | MDL | 002 |
|------------------------------|-------|-------|-----|-----|
| Cadmium (Cd)                 | 100   | mg/kg | 2   | ND  |
| Lead (Pb)                    | 1,000 | mg/kg | 2   | ND  |
| Mercury (Hg)                 | 1,000 | mg/kg | 2   | ND  |
| Hexavalent Chromium (Cr(VI)) | 1,000 | mg/kg | 8   | ND  |
| Sum of PBBs                  | 1,000 | mg/kg | -   | ND  |
| Monobromobiphenyl            | -     | mg/kg | 5   | ND  |
| Dibromobiphenyl              | -     | mg/kg | 5   | ND  |
| Tribromobiphenyl             | -     | mg/kg | 5   | ND  |
| Tetrabromobiphenyl           | -     | mg/kg | 5   | ND  |
| Pentabromobiphenyl           | -     | mg/kg | 5   | ND  |
| Hexabromobiphenyl            | -     | mg/kg | 5   | ND  |
| Heptabromobiphenyl           | -     | mg/kg | 5   | ND  |
| Octabromobiphenyl            | -     | mg/kg | 5   | ND  |
| Nonabromobiphenyl            | -     | mg/kg | 5   | ND  |
| Decabromobiphenyl            | -     | mg/kg | 5   | ND  |
| Sum of PBDEs                 | 1,000 | mg/kg | -   | ND  |
| Monobromodiphenyl ether      | -     | mg/kg | 5   | ND  |
| Dibromodiphenyl ether        | -     | mg/kg | 5   | ND  |
| Tribromodiphenyl ether       | -     | mg/kg | 5   | ND  |
| Tetrabromodiphenyl ether     | -     | mg/kg | 5   | ND  |
| Pentabromodiphenyl ether     | -     | mg/kg | 5   | ND  |



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## Test Report

No. SZXEC1801073602

Date: 13 Jul 2018

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| Test Item(s)                       | Limit | Unit  | MDL | 002 |
|------------------------------------|-------|-------|-----|-----|
| Hexabromodiphenyl ether            | -     | mg/kg | 5   | ND  |
| Heptabromodiphenyl ether           | -     | mg/kg | 5   | ND  |
| Octabromodiphenyl ether            | -     | mg/kg | 5   | ND  |
| Nonabromodiphenyl ether            | -     | mg/kg | 5   | ND  |
| Decabromodiphenyl ether            | -     | mg/kg | 5   | ND  |
| Dibutyl Phthalate (DBP)            | 1000  | mg/kg | 50  | ND  |
| Butyl benzyl Phthalate (BBP)       | 1000  | mg/kg | 50  | ND  |
| Bis(2-ethylhexyl) Phthalate (DEHP) | 1000  | mg/kg | 50  | ND  |
| Diisobutyl Phthalate (DIBP)        | 1000  | mg/kg | 50  | ND  |

### Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

IEC 62321 series is equivalent to EN 62321 series

[http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP\\_ORG\\_ID,FSP\\_LANG\\_ID:1258637,25](http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25)



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No. SZXEC1801073602

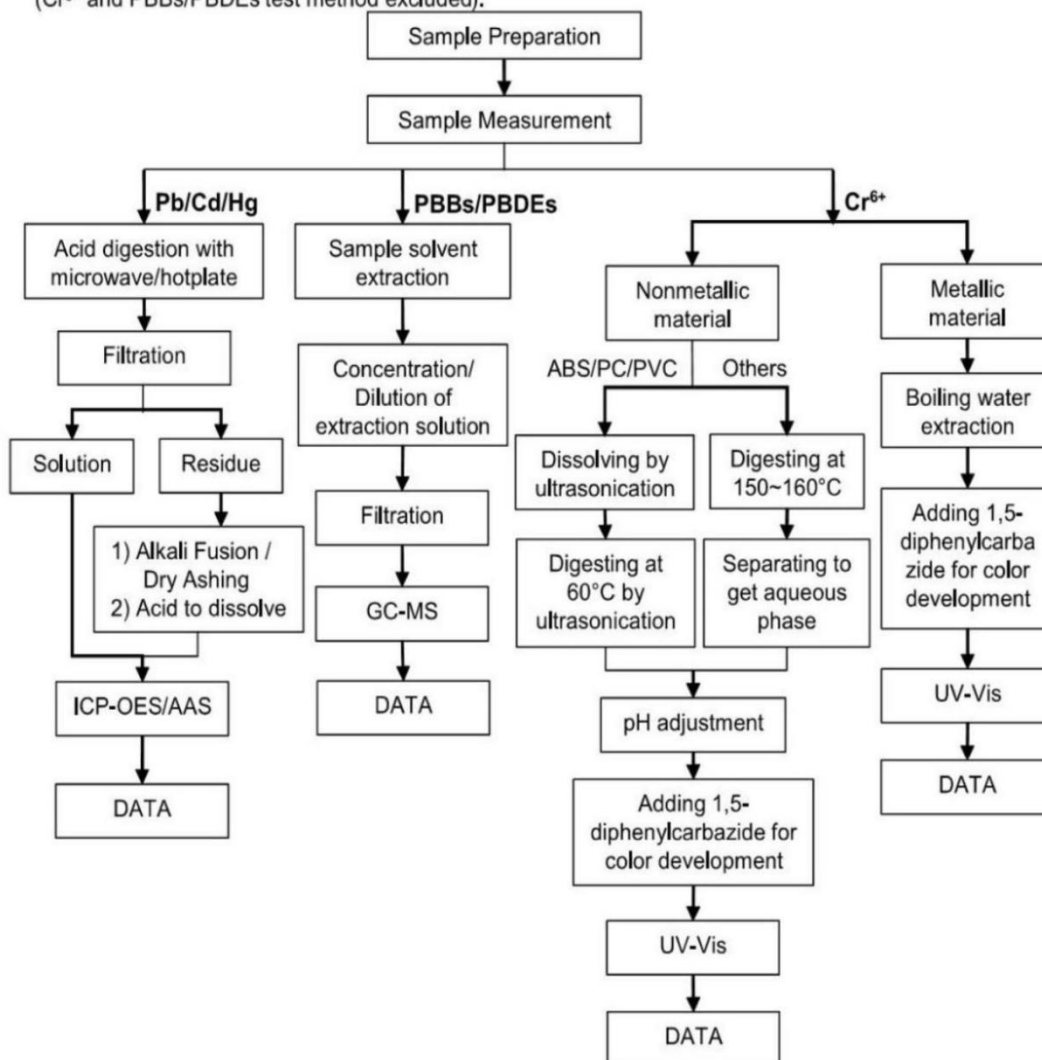
Date: 13 Jul 2018

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## ATTACHMENTS

### Pb/Cd/Hg/Cr<sup>6+</sup>/PBBs/PBDEs Testing Flow Chart

- 1) Name of the person who made testing: Winsen Deng / David Mai / Truly Ren
- 2) Name of the person in charge of testing: Zoe Luo / Roje Zhou / Muky Tong
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart.  
(Cr<sup>6+</sup> and PBBs/PBDEs test method excluded).



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## Test Report

No. SZXEC1801073602

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Sample photo:



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