

# 检测报告 Test Report

报告编号 :RLSZD00104241  
Report No.:RLSZD00104241

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**申请单位** :惠州市興利業精密電子廠有限公司[敬業電子(惠州)有限公司]  
**Applicant** :BENNIC COMPONENTS  
**地址** :广东省惠州市惠城区平南工业区50号小区  
**Address** :NO.50 DISTRICT, PINNAN INDUSTRIAL ZONE HUICHENG DISTRICT  
HUIZHOU, GUANGDONG. CHINA

样品信息 Report on the submitted sample(s) said to be:

## 水泥电阻 CEMENT TYPE WIRE WOUND RESISTORS

序号 No.	样品名称 Sample names	样品描述 Sample Description
1	瓷壳 Porcelain case	白色固体 White solid
2	瓷棒 Porcelain rods	白色固体 White solid
3	石英沙填充料 Material quartz sand fills	白色固体 White solid
4	引线型铁帽 Pin-type iron cap	带有银色覆盖层的金属 Metal with silver color plating
5	插片型铁帽 Insert type money cap	带有银色覆盖层的金属 Metal with silver color plating
6	电阻丝 Resistance wire	银色金属线 Silver color metal wire
7	黑色油墨	黑色液体 Black liquid
8	紅色油墨	红色液体 Red liquid

客户 Buyer :SONY,SAMSUNG;LG;MYS,UHL,PIONEER  
样品接收日期 :2011.09.23  
Sample Received Date Sep. 23, 2011  
样品检测日期 :2011.09.23-2011.09.27  
Testing Period Sep. 23, 2011 to Sep. 27, 2011

检测要求/检测依据/检测结果: 请参见下页。

**Test Requested /Test Method/Test Result(s):** Please refer to the following page(s)

主 检:  
Tested by  
签 发:  
Approved by



Technical Manager

审 核:  
Inspected by  
签发日期:  
Date

Vargas

2011.09.27  
Sep. 27, 2011

No. 13933081

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## 检测要求

- 1.根据客户要求,测定所提交样品中的铅、镉、汞、六价铬、多溴联苯和多溴二苯醚的含量。
- 2.根据客户要求,检测所提交样品是否含有六价铬。

## Test Requested

- 1.As specified by client, to determine the Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs&PBDEs content in the submitted sample.
- 2.As specified by client, to identify if there is the Hexavalent Chromium in the submitted sample.

## 检测依据 Test Method:

测试项目 Tested Item(s)	测试方法 Test Method	测试仪器 Measured Equipment(s)	方法检测限 MDL
铅 Lead (Pb)	IEC 62321:2008 Ed.1 Sec.9	ICP-OES	2 mg/kg
	IEC 62321:2008 Ed.1 Sec.10		
镉 Cadmium (Cd)	IEC 62321:2008 Ed.1 Sec.9	ICP-OES	2 mg/kg
	IEC 62321:2008 Ed.1 Sec.10		
汞 Mercury (Hg)	IEC 62321:2008 Ed.1 Sec.7	ICP-OES	2 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	IEC 62321:2008 Ed.1 Annex B	UV-Vis	/
	IEC 62321:2008 Ed.1 Annex C		2 mg/kg
多溴联苯 Polybrominated Biphenyls (PBBs)	IEC 62321:2008 Ed.1 Annex A	GC-MS	5 mg/kg
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321:2008 Ed.1 Annex A	GC-MS	5 mg/kg

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检测结果 Test Result(s):

测试项目 Tested Item(s)	含量 Content		
	样品 1 Sample No.1	样品 2 Sample No.2	样品 3 Sample No.3
铅 Lead (Pb)	N.D.	57 mg/kg	N.D.
镉 Cadmium (Cd)	N.D.	N.D.	N.D.
汞 Mercury (Hg)	N.D.	N.D.	N.D.
六价铬 Hexavalent Chromium (Cr(VI))	N.D.	N.D.	N.D.

测试项目 Tested Item(s)	含量 Content		
	样品 4 Sample No.4	样品 5 Sample No.5	样品 6 Sample No.6
铅 Lead (Pb)	N.D.	N.D.	35 mg/kg
镉 Cadmium (Cd)	N.D.	N.D.	N.D.
汞 Mercury (Hg)	N.D.	N.D.	N.D.

测试项目 Tested Item(s)	含量 Content	
	样品 7 Sample No.7	样品 8 Sample No.8
铅 Lead (Pb)	N.D.	N.D.
镉 Cadmium (Cd)	N.D.	N.D.
汞 Mercury (Hg)	N.D.	N.D.
六价铬 Hexavalent Chromium (Cr(VI))	N.D.	N.D.

测试项目 Tested Item(s)	结论 Conclusion		
	样品 4 Sample No.4	样品 5 Sample No.5	样品 6 Sample No.6
六价铬 Hexavalent Chromium (Cr(VI))	Negative	Negative	Negative

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**检测结果 Test Result(s):**

测试项目 Tested Item(s)	含量 Content		
	样品 1 Sample No.1	样品 2 Sample No.2	样品 3 Sample No.3
<b>多溴联苯 Polybrominated Biphenyls(PBBs)</b>			
一溴联苯 Monobromobiphenyl	N.D.	N.D.	N.D.
二溴联苯 Dibromobiphenyl	N.D.	N.D.	N.D.
三溴联苯 Tribromobiphenyl	N.D.	N.D.	N.D.
四溴联苯 Tetrabromobiphenyl	N.D.	N.D.	N.D.
五溴联苯 Pentabromobiphenyl	N.D.	N.D.	N.D.
六溴联苯 Hexabromobiphenyl	N.D.	N.D.	N.D.
七溴联苯 Heptabromobiphenyl	N.D.	N.D.	N.D.
八溴联苯 Octabromobiphenyl	N.D.	N.D.	N.D.
九溴联苯 Nonabromobiphenyl	N.D.	N.D.	N.D.
十溴联苯 Decabromobiphenyl	N.D.	N.D.	N.D.
<b>多溴二苯醚 Polybrominated Diphenyl Ethers(PBDEs)</b>			
一溴二苯醚 Monobromodiphenyl ether	N.D.	N.D.	N.D.
二溴二苯醚 Dibromodiphenyl ether	N.D.	N.D.	N.D.
三溴二苯醚 Tribromodiphenyl ether	N.D.	N.D.	N.D.
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	N.D.	N.D.
五溴二苯醚 Pentabromodiphenyl ether	N.D.	N.D.	N.D.
六溴二苯醚 Hexabromodiphenyl ether	N.D.	N.D.	N.D.
七溴二苯醚 Heptabromodiphenyl ether	N.D.	N.D.	N.D.
八溴二苯醚 Octabromodiphenyl ether	N.D.	N.D.	N.D.
九溴二苯醚 Nonabromodiphenyl ether	N.D.	N.D.	N.D.
十溴二苯醚 Decabromodiphenyl ether	N.D.	N.D.	N.D.

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测试项目 Tested Item(s)	含量 Content	
	样品 7 Sample No.7	样品 8 Sample No.8
<b>多溴联苯 Polybrominated Biphenyls(PBBs)</b>		
一溴联苯 Monobromobiphenyl	N.D.	N.D.
二溴联苯 Dibromobiphenyl	N.D.	N.D.
三溴联苯 Tribromobiphenyl	N.D.	N.D.
四溴联苯 Tetrabromobiphenyl	N.D.	N.D.
五溴联苯 Pentabromobiphenyl	N.D.	N.D.
六溴联苯 Hexabromobiphenyl	N.D.	N.D.
七溴联苯 Heptabromobiphenyl	N.D.	N.D.
八溴联苯 Octabromobiphenyl	N.D.	N.D.
九溴联苯 Nonabromobiphenyl	N.D.	N.D.
十溴联苯 Decabromobiphenyl	N.D.	N.D.

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测试项目 Tested Item(s)	含量 Content	
	样品 7 Sample No.7	样品 8 Sample No.8
<b>多溴二苯醚 Polybrominated Diphenyl Ethers(PBDEs)</b>		
一溴二苯醚 Monobromodiphenyl ether	N.D.	N.D.
二溴二苯醚 Dibromodiphenyl ether	N.D.	N.D.
三溴二苯醚 Tribromodiphenyl ether	N.D.	N.D.
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	N.D.
五溴二苯醚 Pentabromodiphenyl ether	N.D.	N.D.
六溴二苯醚 Hexabromodiphenyl ether	N.D.	N.D.
七溴二苯醚 Heptabromodiphenyl ether	N.D.	N.D.
八溴二苯醚 Octabromodiphenyl ether	N.D.	N.D.
九溴二苯醚 Nonabromodiphenyl ether	N.D.	N.D.
十溴二苯醚 Decabromodiphenyl ether	N.D.	N.D.

注释: 对于检测铅, 镉, 汞之样品已完全溶解。

-N.D. = 未检出 (小于方法检测限)

-mg/kg = ppm = 百万分之几

-Negative 表示阴性

阴性=不含有六价铬, 由表面积为 50cm<sup>2</sup> 的样品所萃取出来的溶液中的六价铬的浓度小于 0.02mg/kg

**Note: The sample 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 50cm<sup>2</sup> sample surface area used.

备注: 此检测报告中样品7的测试结果从测试报告编号RLSZD000970350001中的样品的测试结果中复制而来。

此检测报告中样品8的测试结果从测试报告编号RLSZD000970350002中的样品的测试结果中复制而来。

**Remark: The test results of the sample No.7 of this report copy from the test results of the test report (Report No.RLSZD000970350001).**

**The test results of the sample No.8 of this report copy from the test results of the test report (Report No.RLSZD000970350002).**

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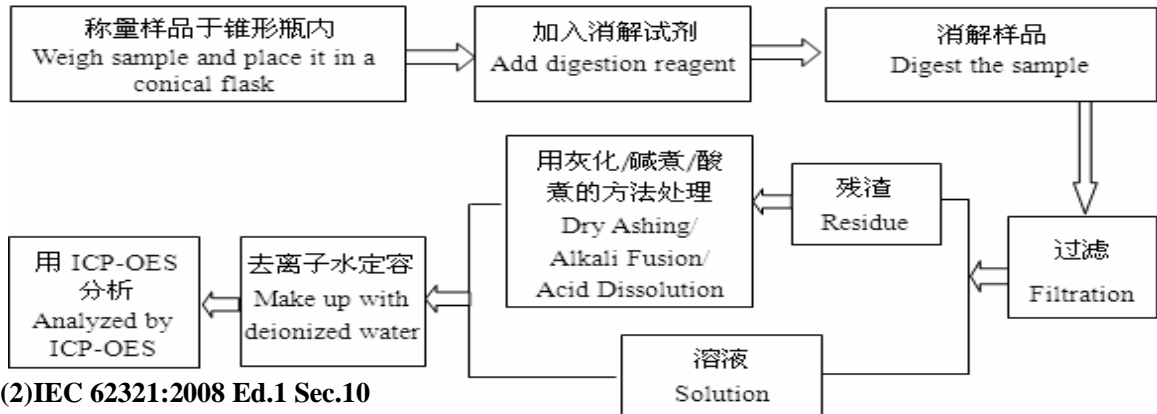
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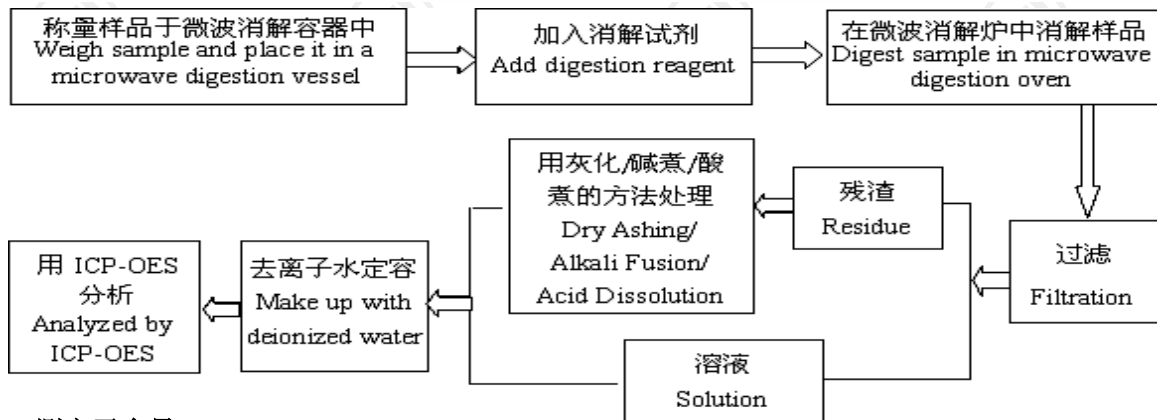
检测流程 Test Process:

## 1. 测定铅/镉含量 Test for Pb/Cd Content

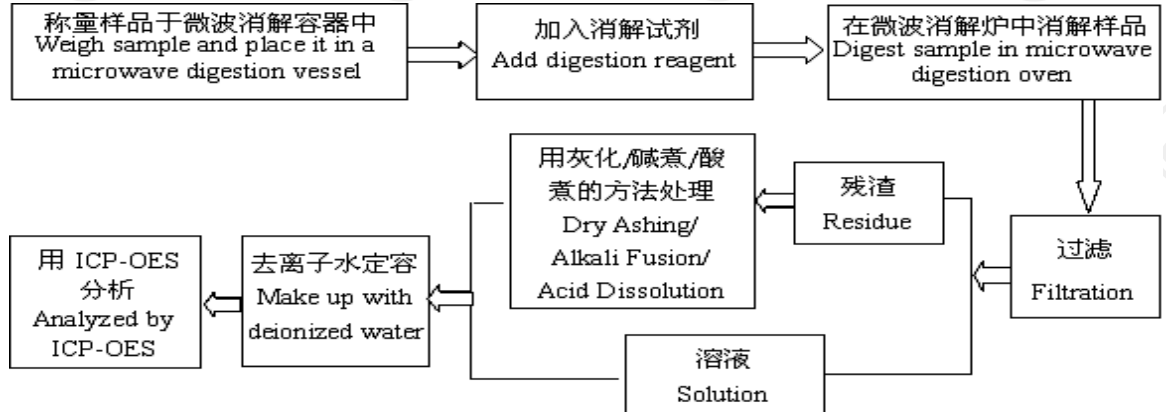
### (1) IEC 62321:2008 Ed.1 Sec.9



### (2) IEC 62321:2008 Ed.1 Sec.10



## 2. 测定汞含量 Test for Hg Content



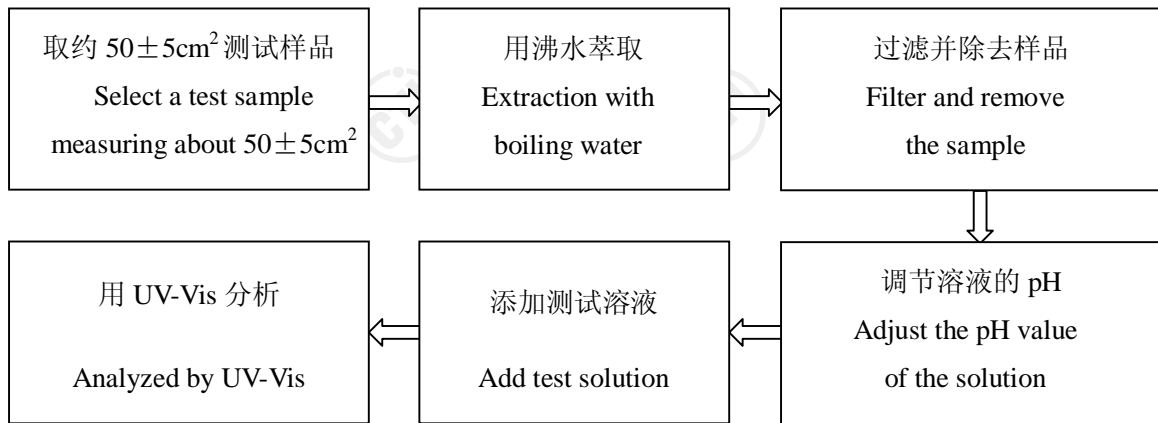
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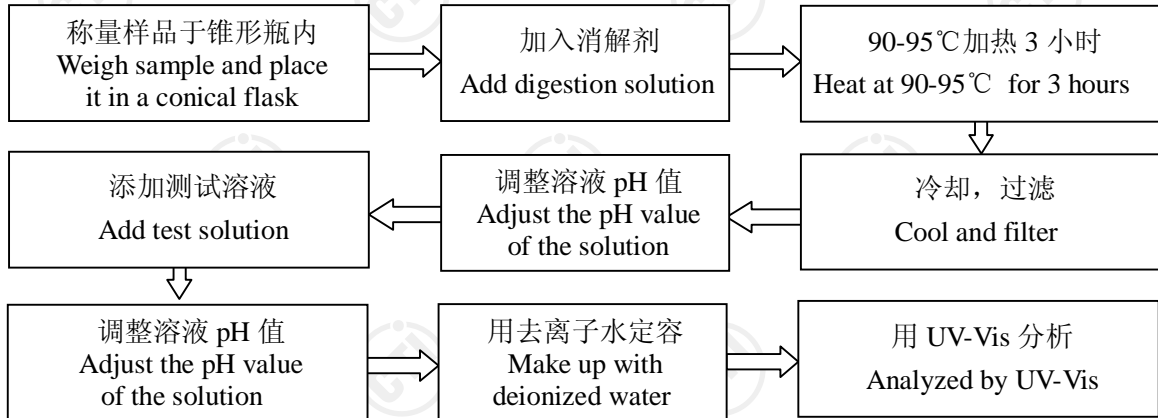
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### 3. 测定六价铬含量 Test for Chromium(VI) Content

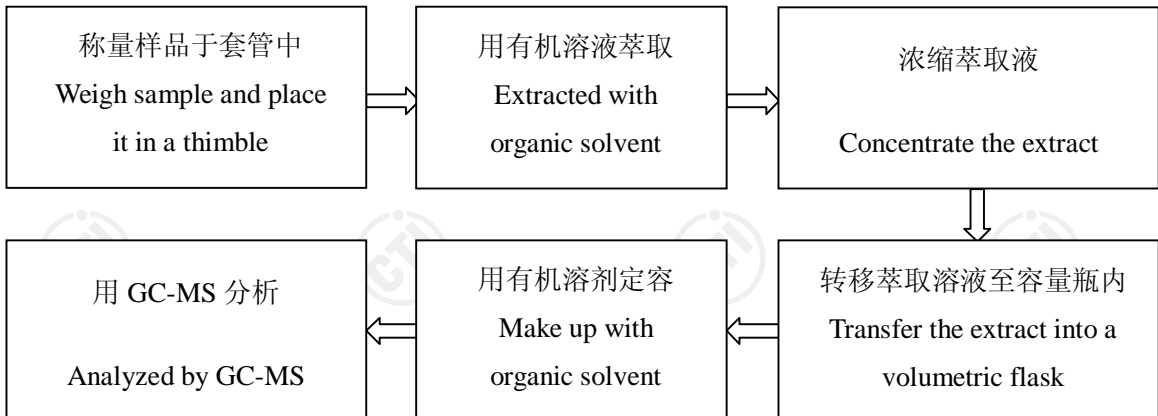
#### (1) IEC 62321:2008 Ed. 1 Annex B



#### (2) IEC 62321:2008 Ed. 1 Annex C



### 4. 测定多溴联苯/多溴二苯醚含量 Test for PBBs/PBDEs Content





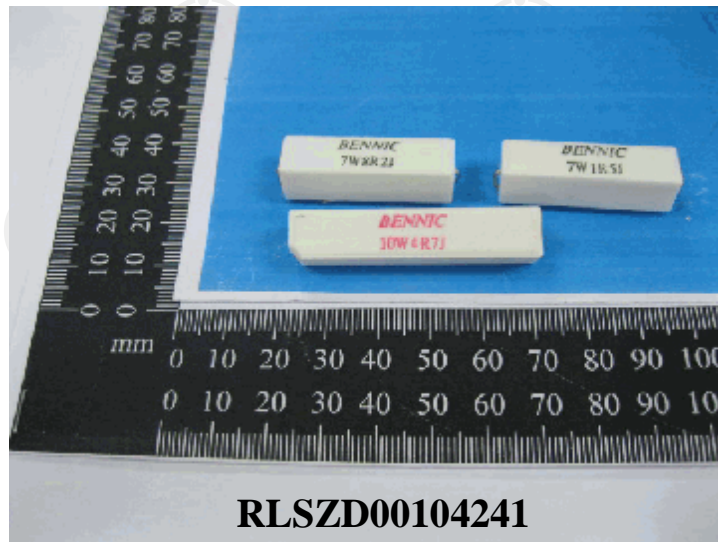
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## 成品图片

Finished product of the sample(s)



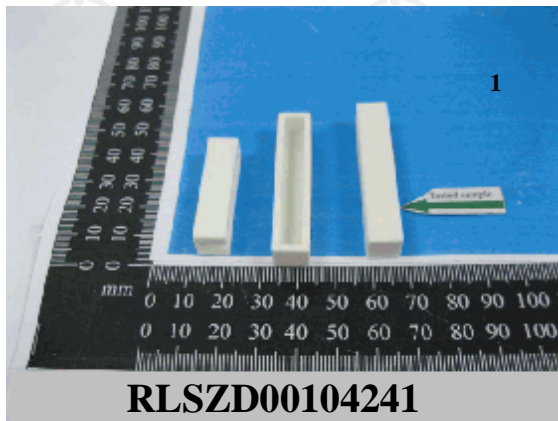
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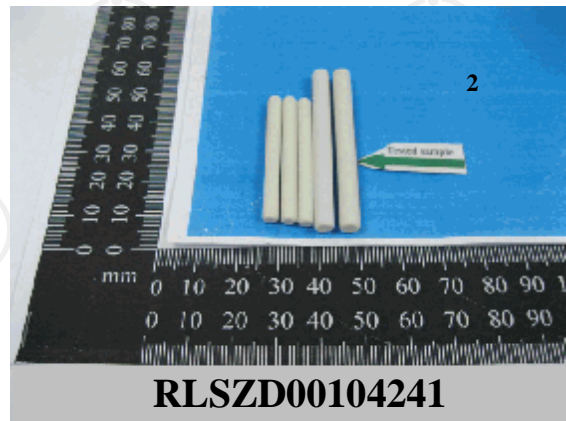
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## 样品图片 Photo(s) of the sample(s)

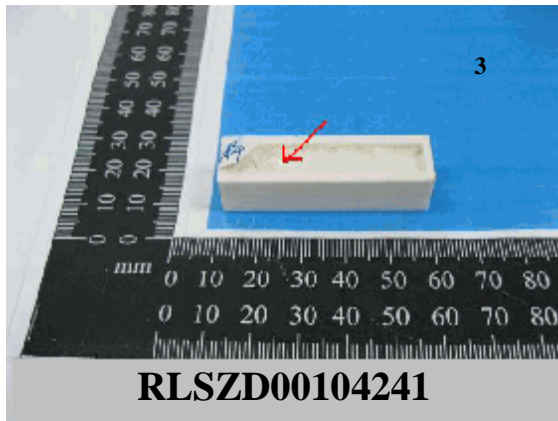
样品 1 Sample No.1



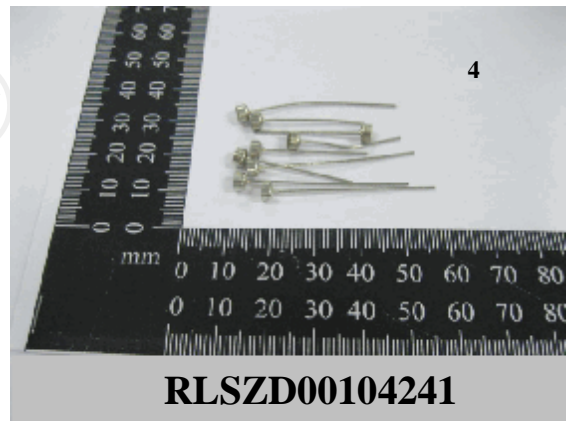
样品 2 Sample No.2



样品 3 Sample No.3



样品 4 Sample No.4



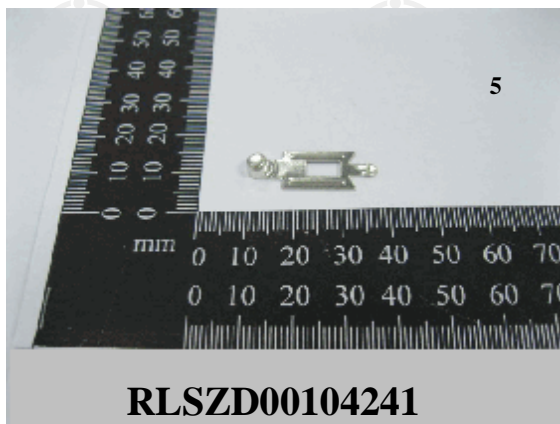
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## 样品图片 Photo(s) of the sample(s)

样品 5 Sample No.5



样品 6 Sample No.6



样品 7 Sample No.7



样品 8 Sample No.8



\*\*\* 报告结束 \*\*\*  
\*\*\* End of report \*\*\*

本报告无 CTI 盖章无效。本报告不得修改、增加或删除。此结果只对本次受测样品的结果负责。未经 CTI 书面同意，不得部分复制本报告，亦不可作为宣传品使用。

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