

## Test Report

Number: LCZC16040902-E

Date: Jun. 10, 2016

Page 1 of 49

Applicant : Foshan Shunde Anchor appliance co., LTD

Address : Section 1 Of 2#, Nanpu industrial Area, Junhe Road, Junan Town, Shunde District, Foshan City, Guangdong Province, China.

Date of Received : Apr. 19, 2016 & May. 30, 2016 & Jun. 03, 2016

Testing Period : From Apr. 19, 2016 to Jun. 06, 2016

Report on the submitted sample said to be :

Item Name : coffee makers

Model No. : ST-503B

Ref. No. : See Appendix 1:

### Test Request

As per applicant requirement, According to European RoHS directive **2011/65/EU** and it's Amendment, Test on submitted samples

— Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)) and Polybrominated Biphenyls & Polybrominated Biphenyl Ethers (PBBs & PBDEs) content.

### Conclusion:

**Pass**

Please see the next page(s) for details.

Signed for and on behalf of **LCTECH**

Reviewed by



Ken Lu  
Project Engineer

Approved by



Robert Luo  
Technical Manager

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**1 Submitted Sample(s) Information**

**1.1 Photo of submitted product**

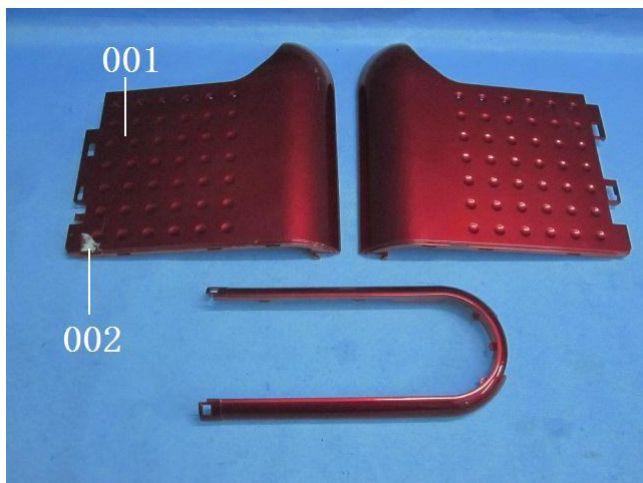


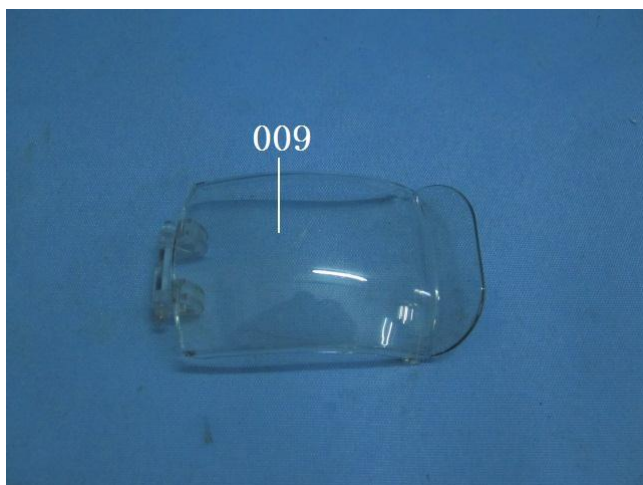
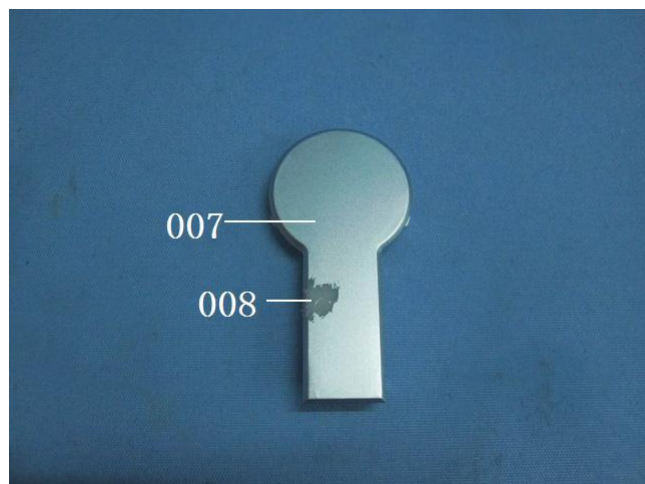
**Product 01 (Coffee makers (ST-503B))**



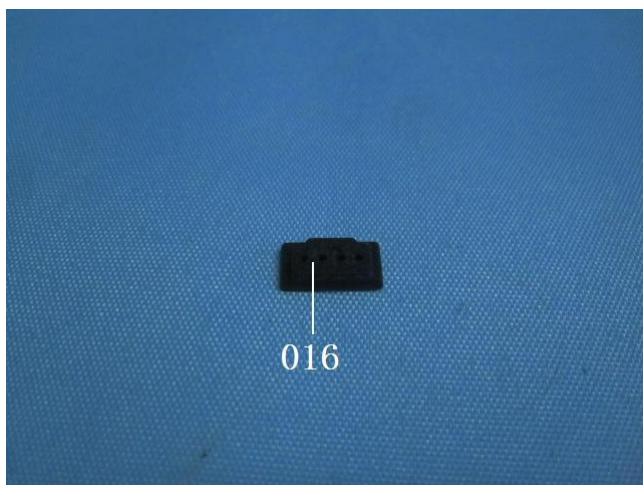
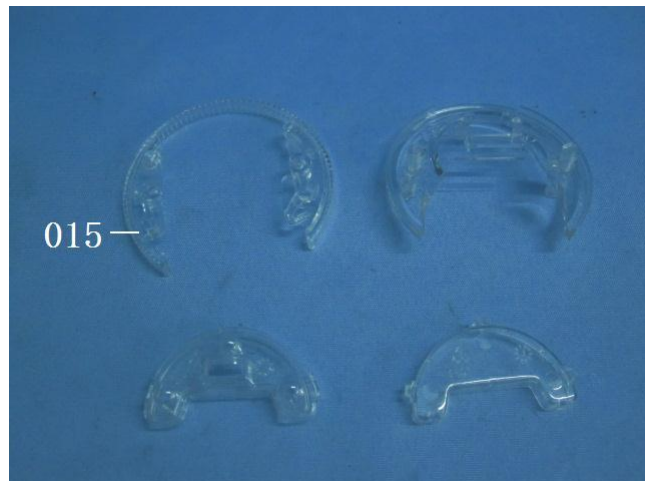
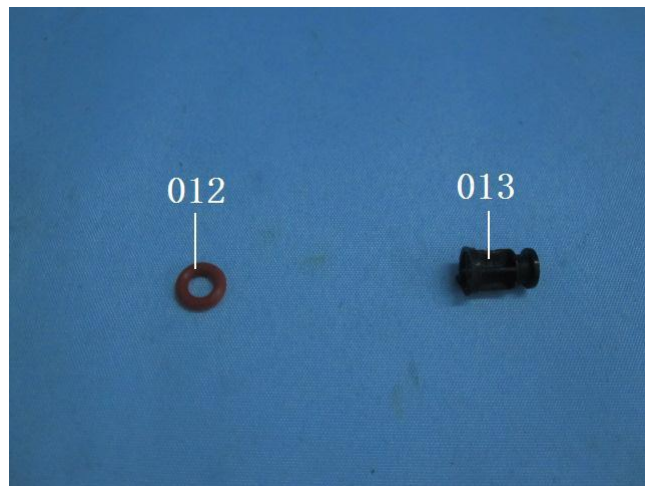
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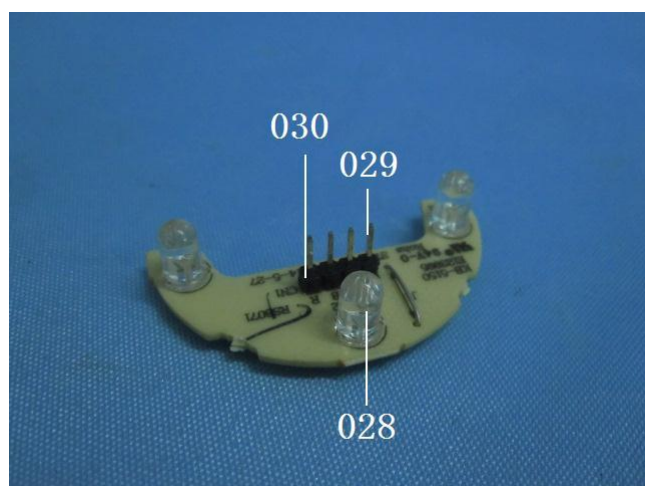
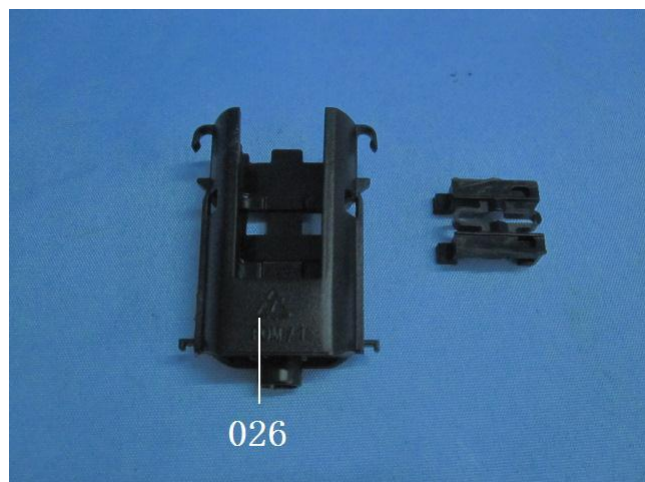
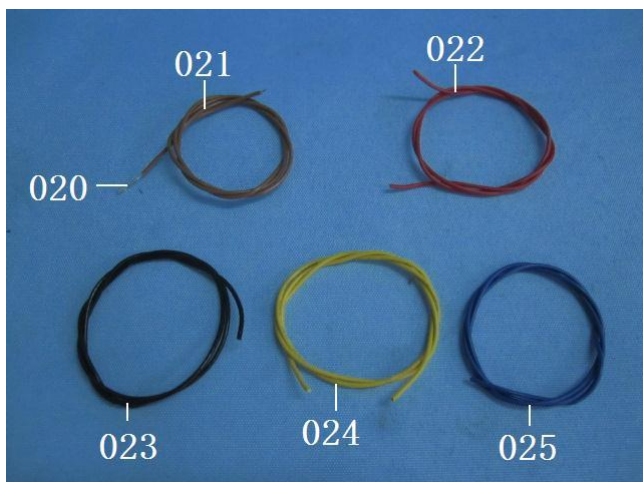
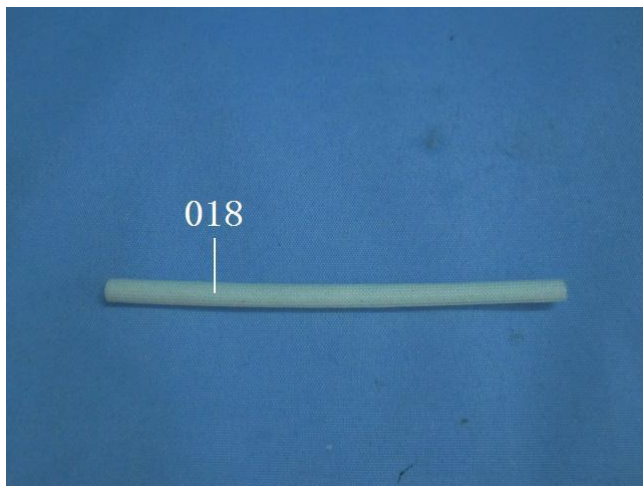
**1.2 The test Sample(s) after disassemble the product.**



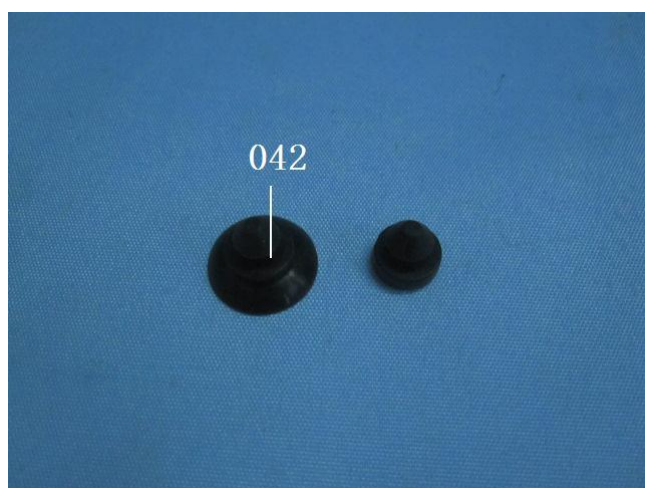
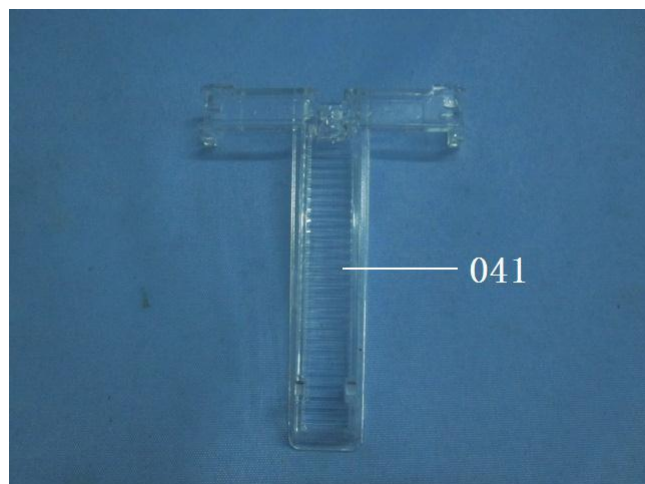
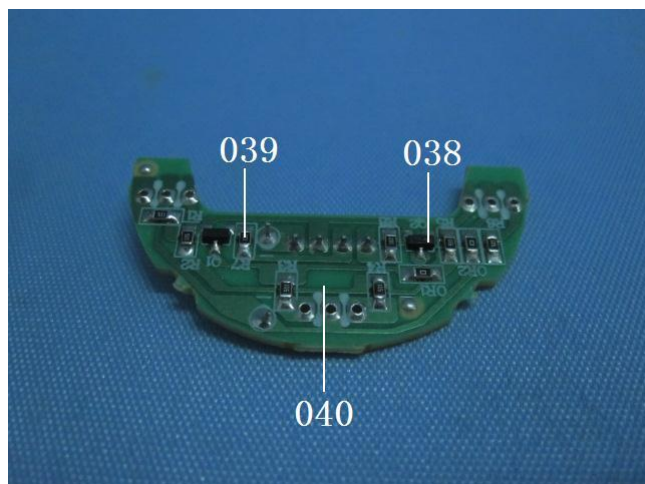
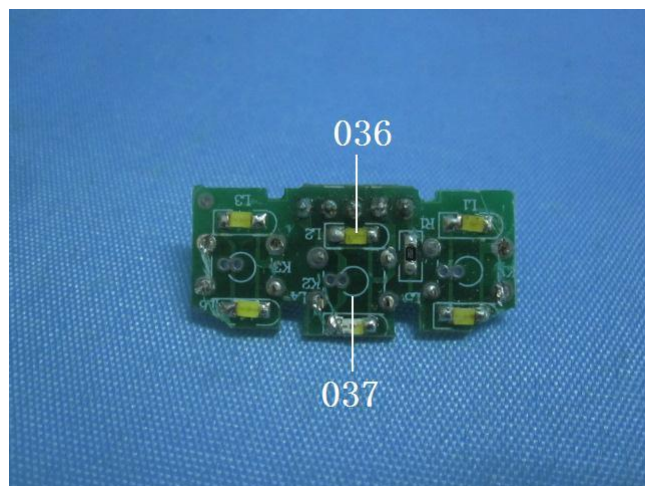
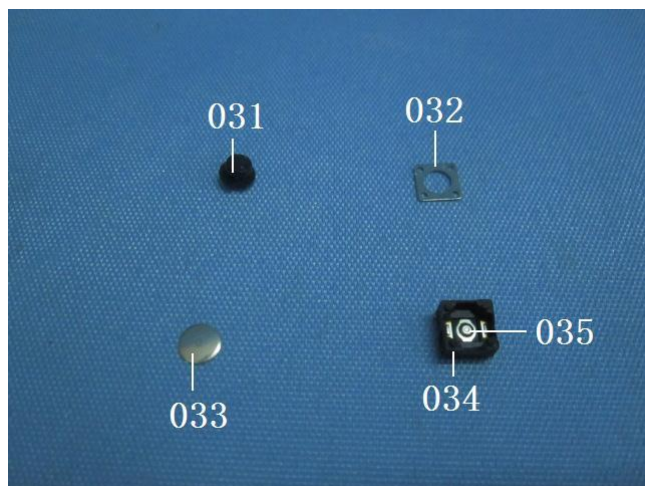












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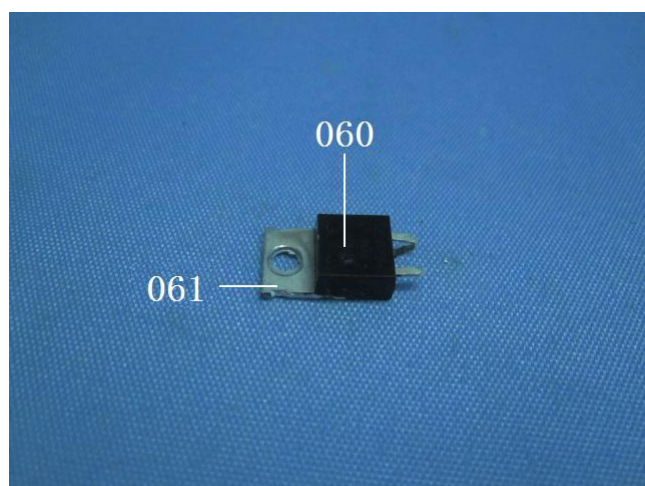
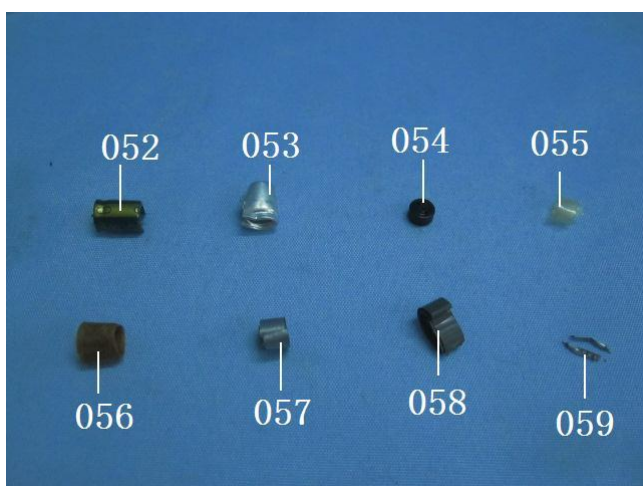
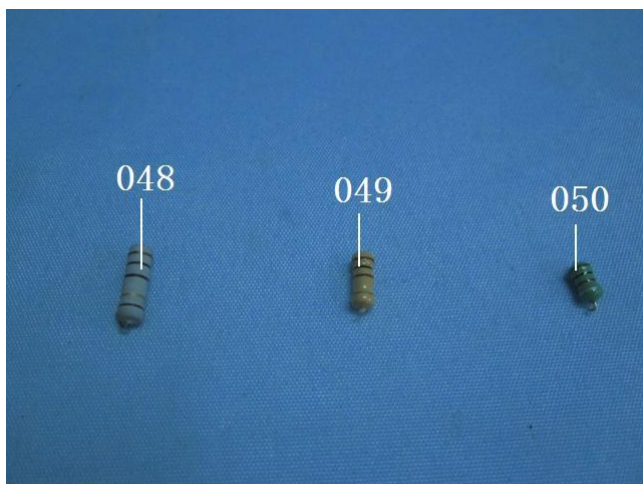
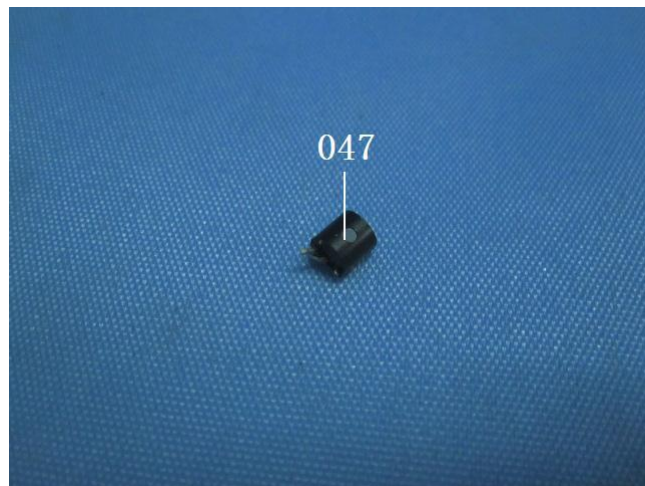
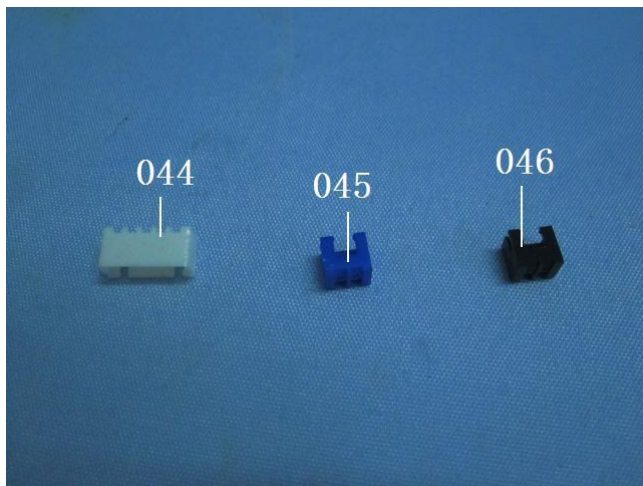
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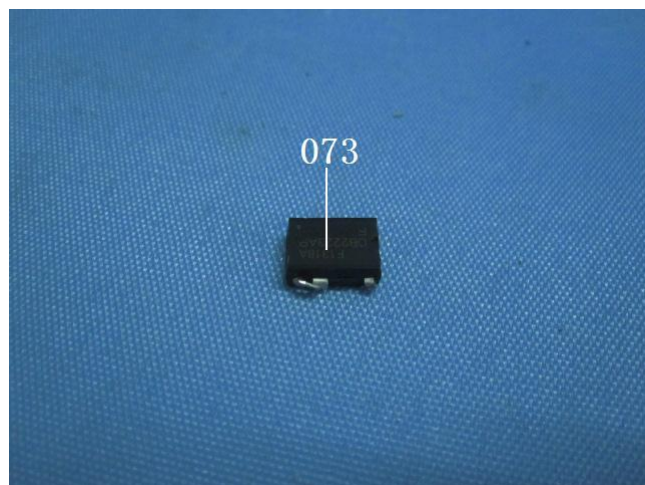
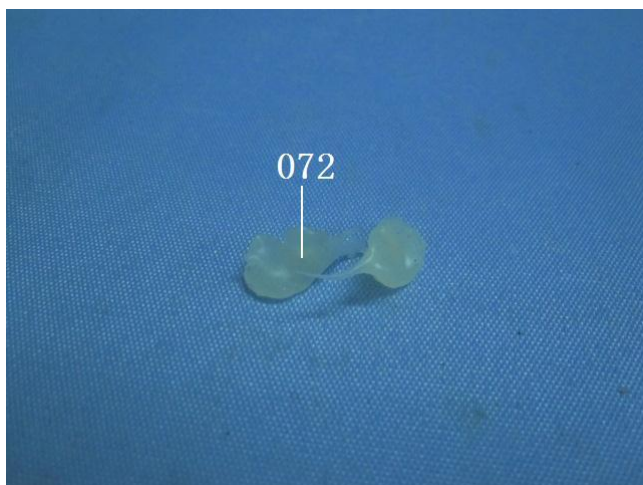
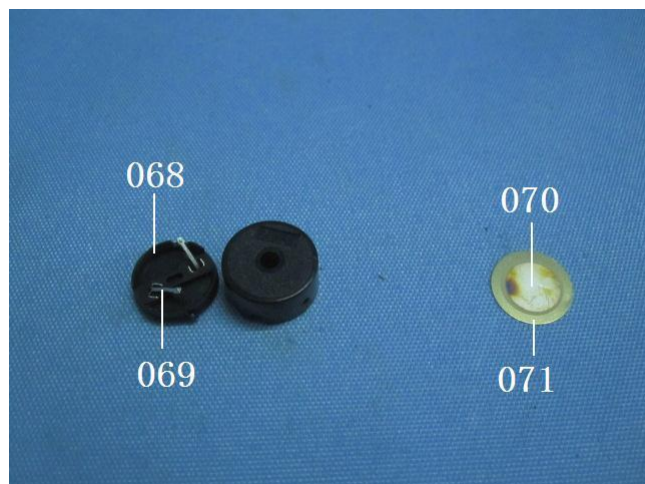
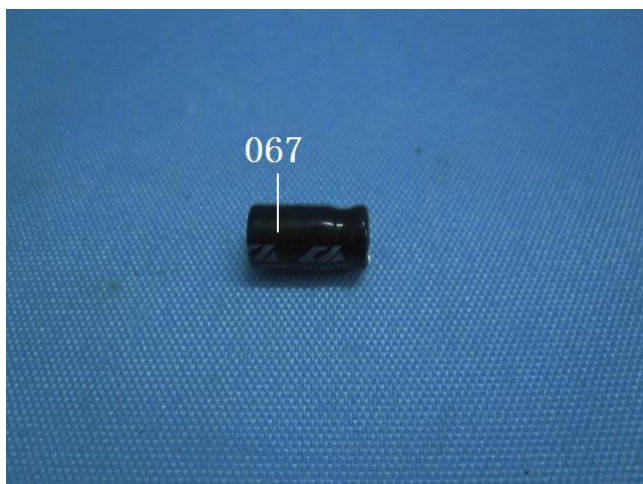
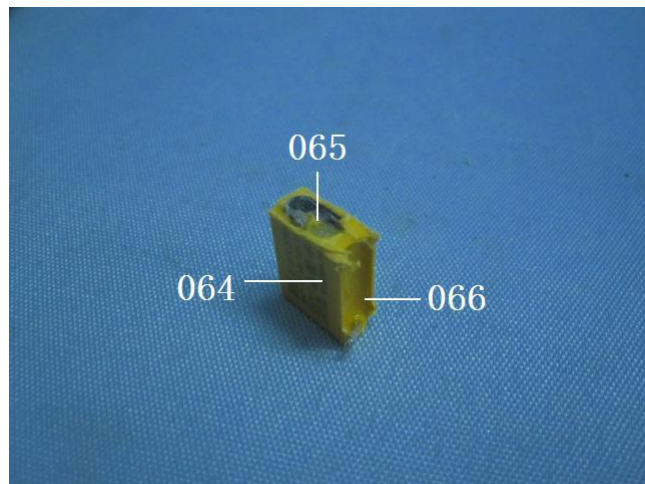
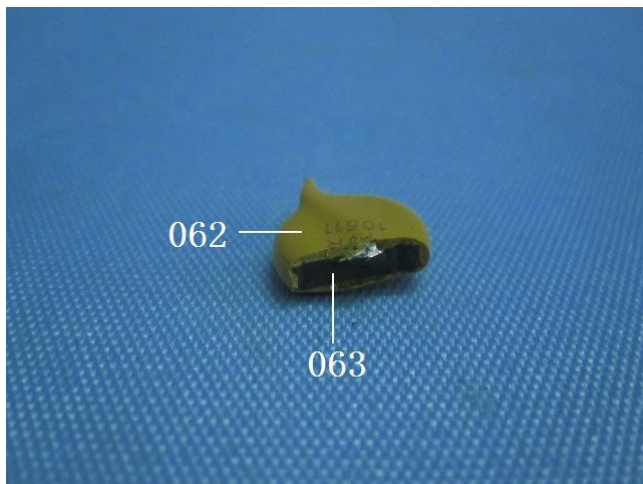
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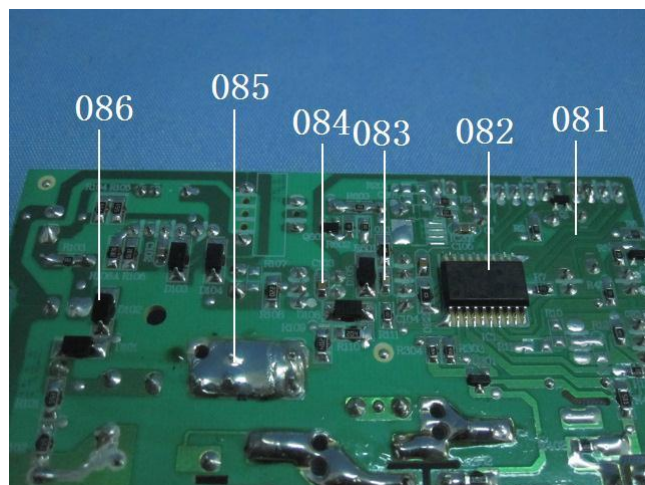
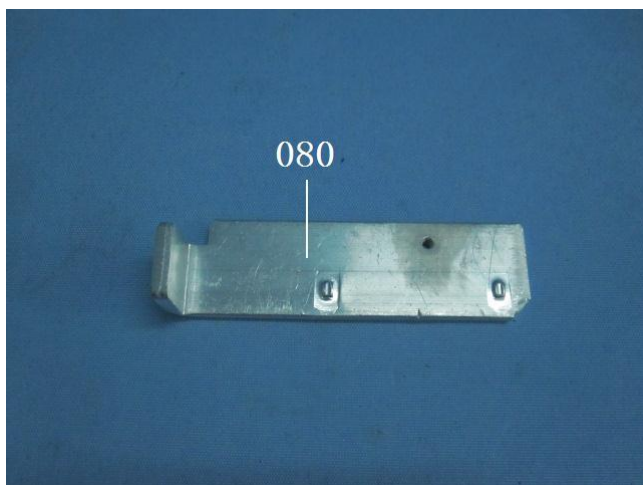
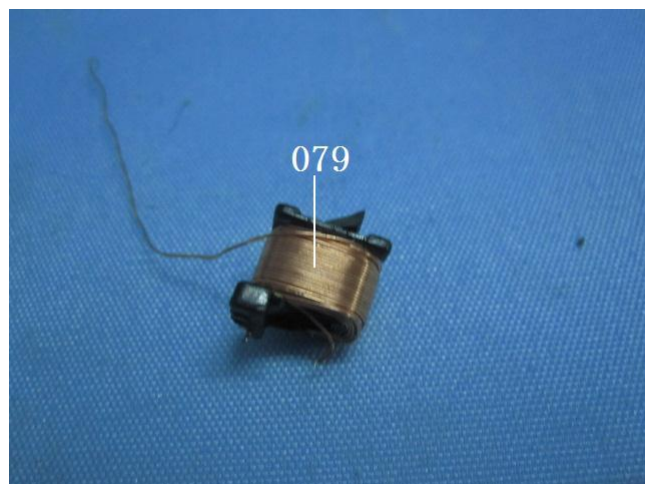
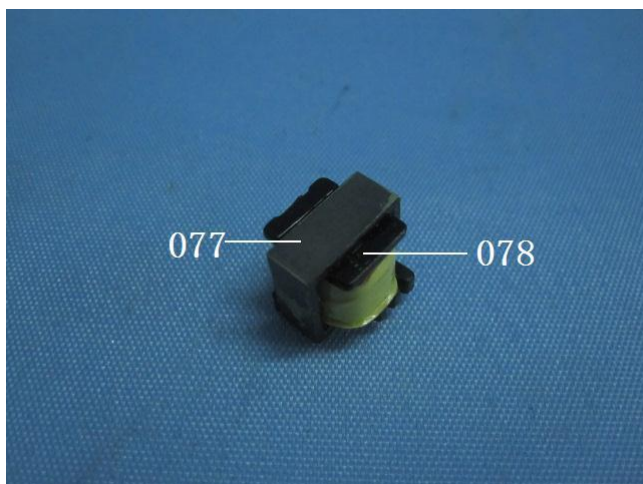
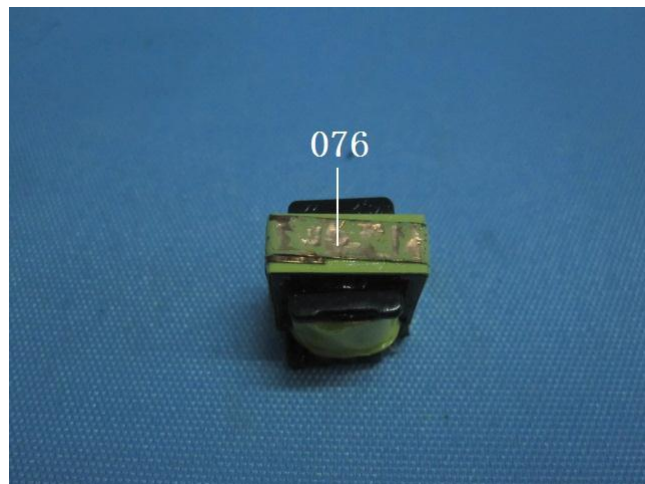
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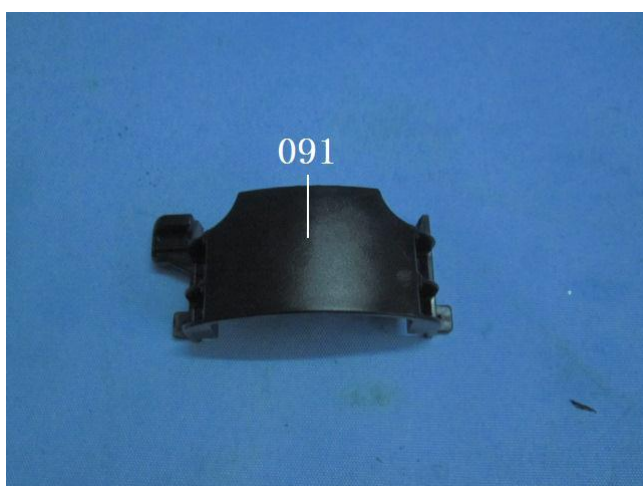
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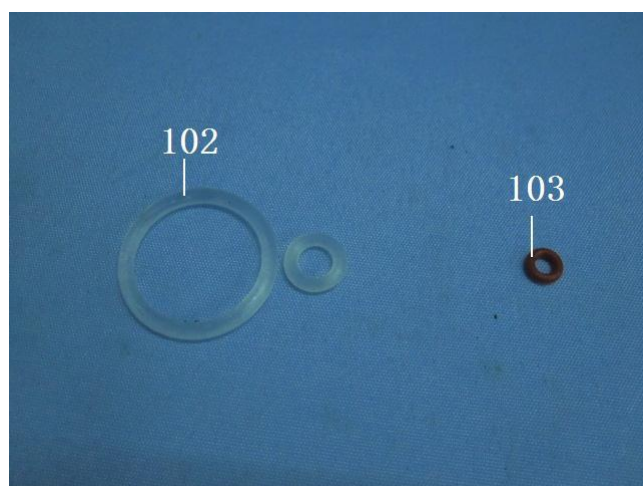
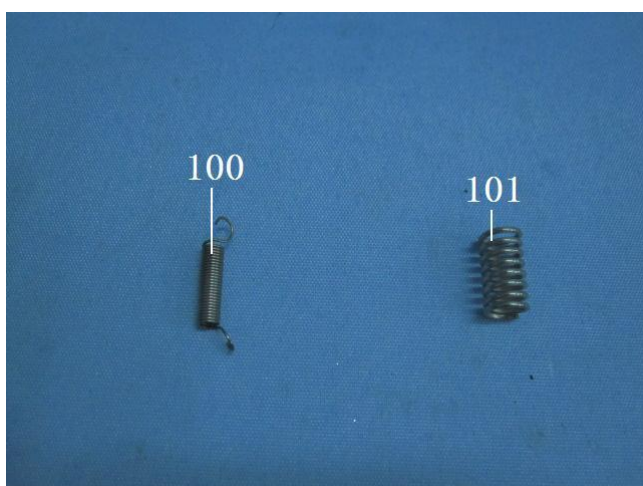
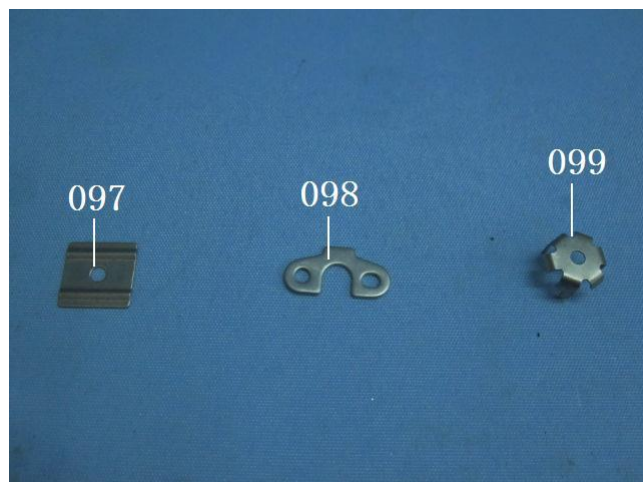
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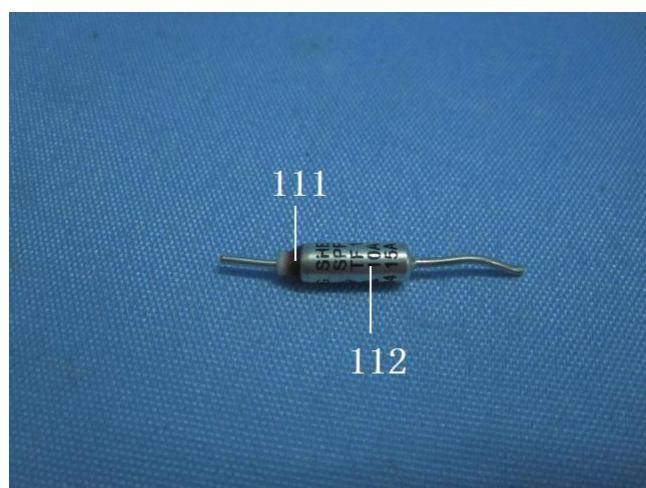
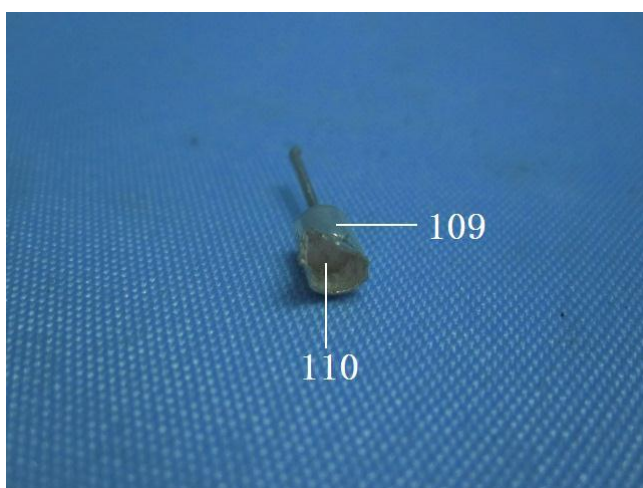
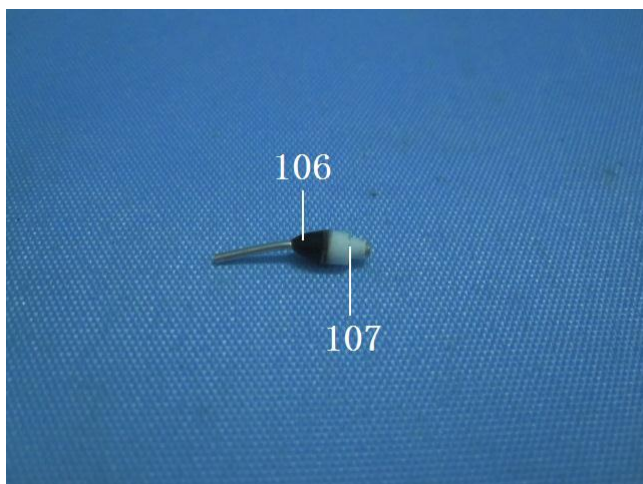
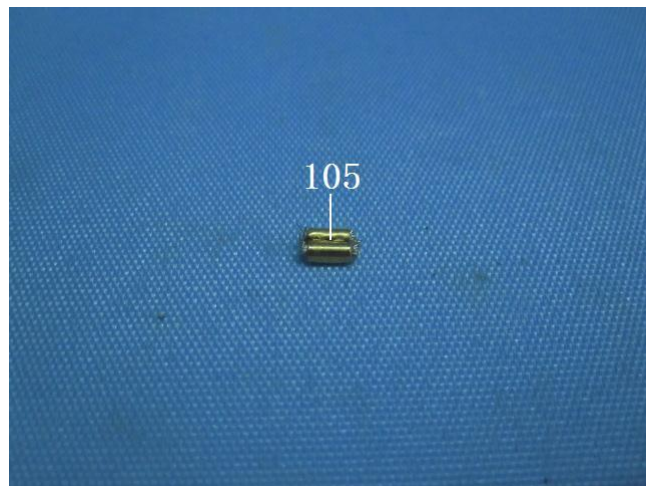
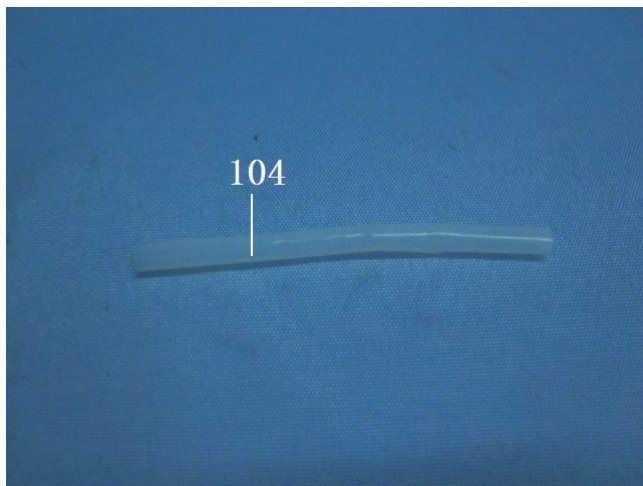
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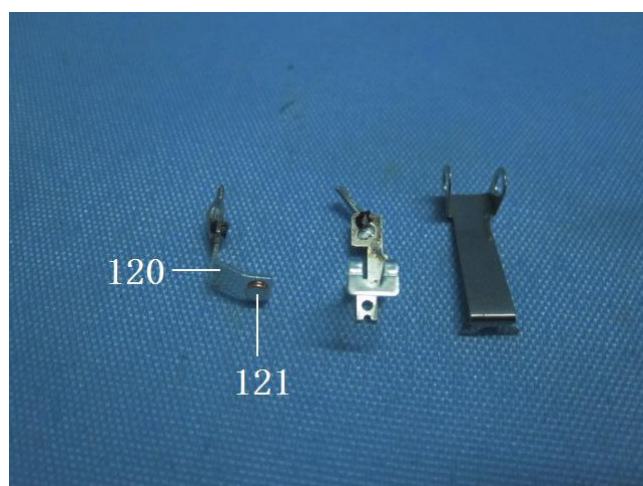
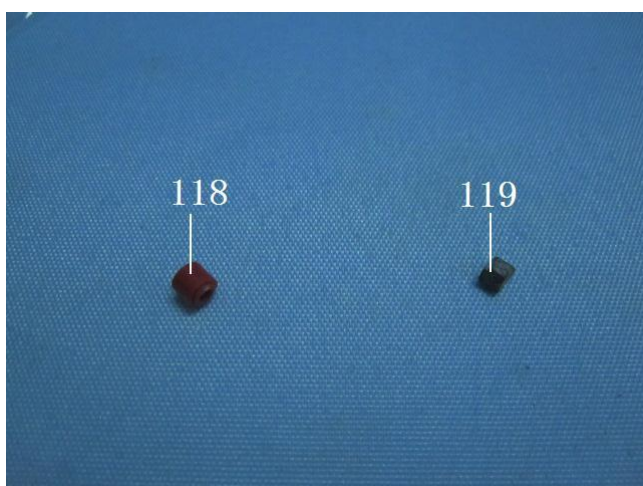
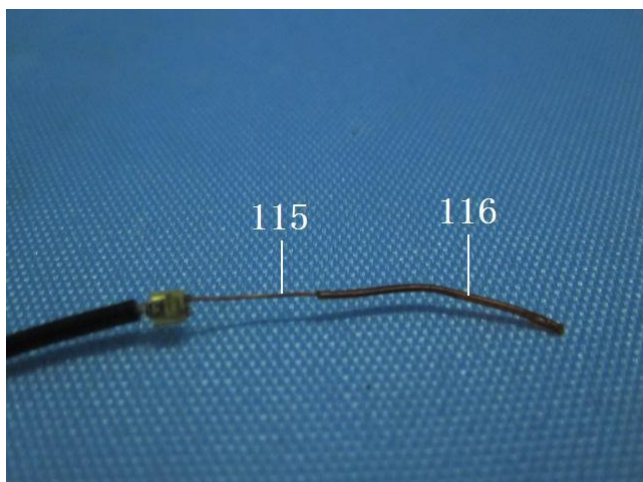
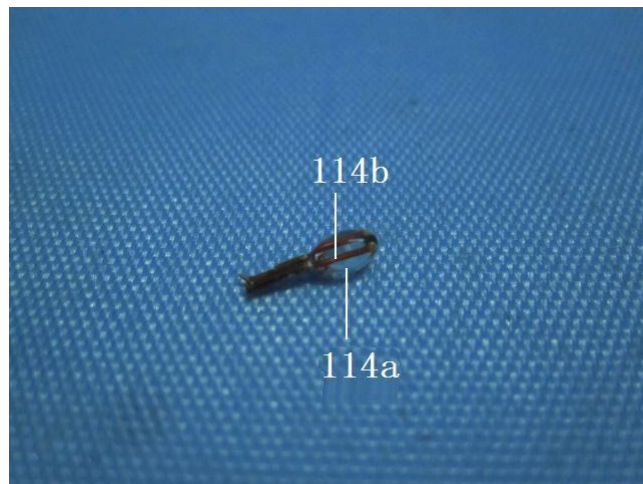
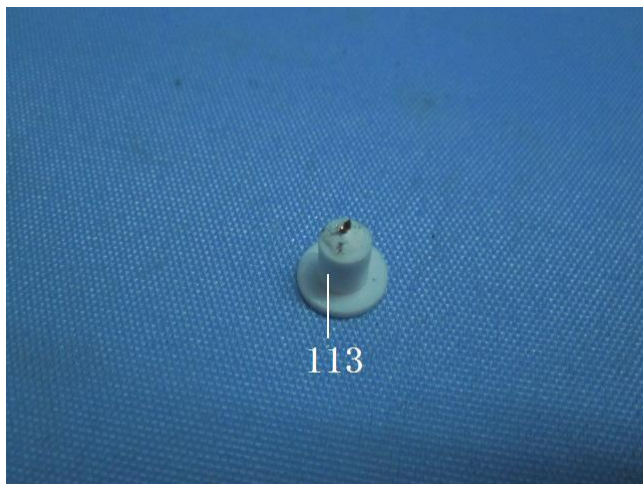
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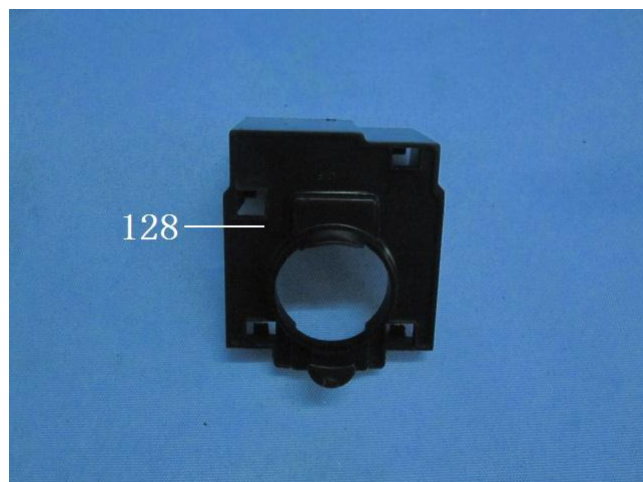
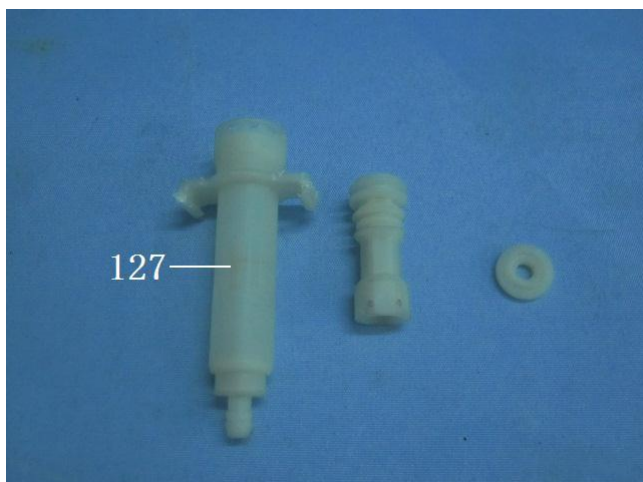
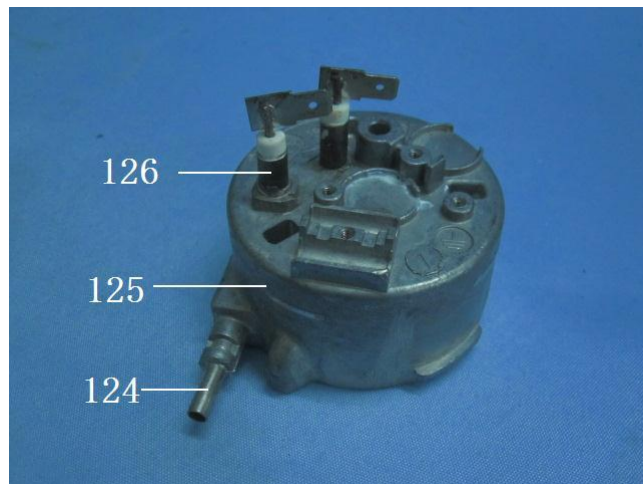
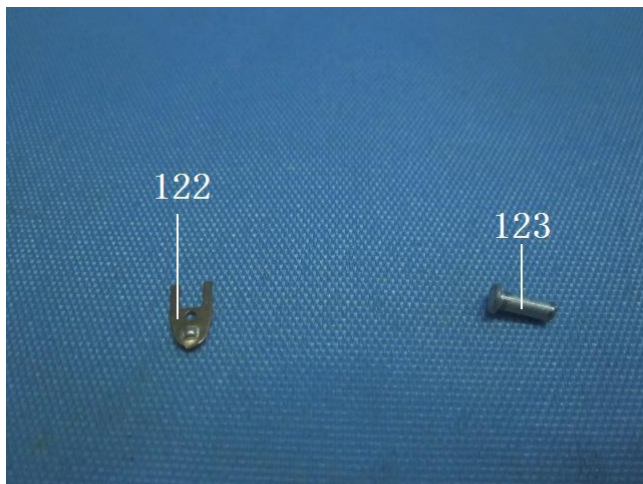
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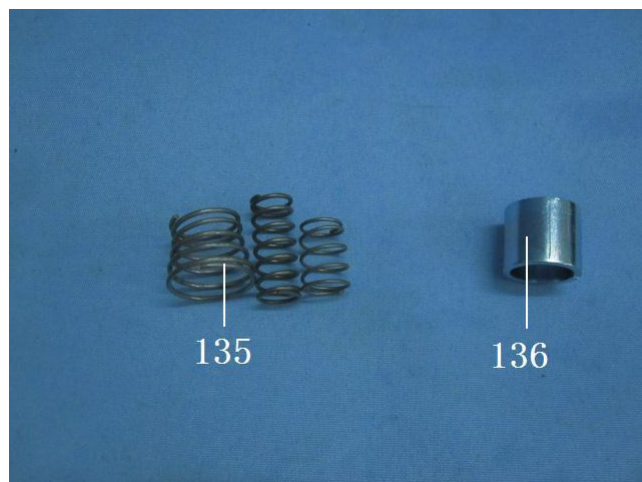
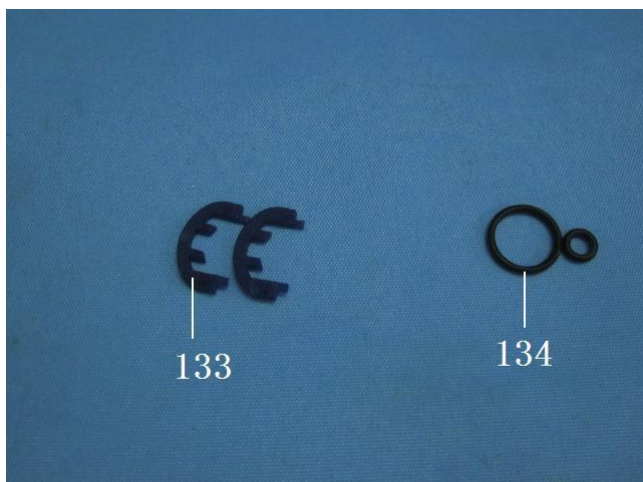
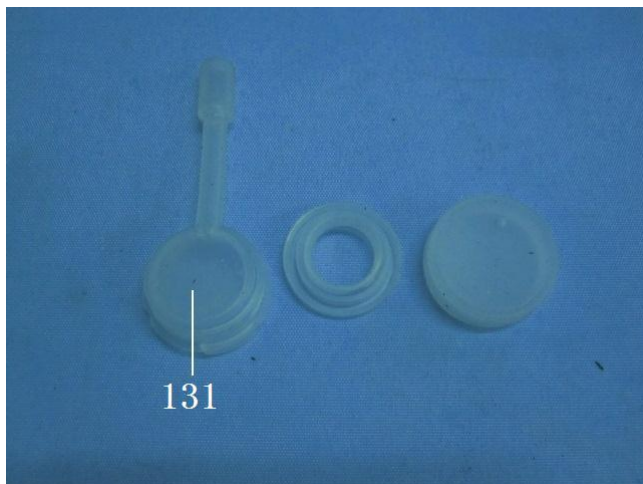
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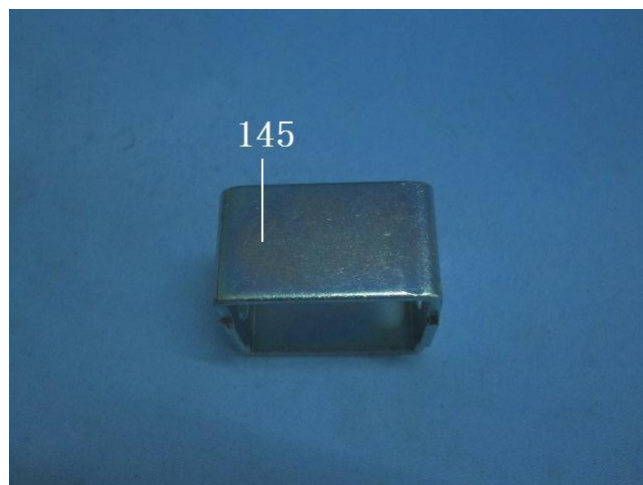
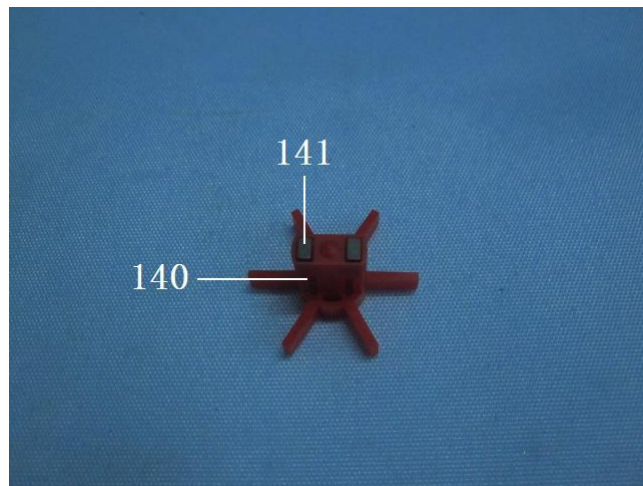
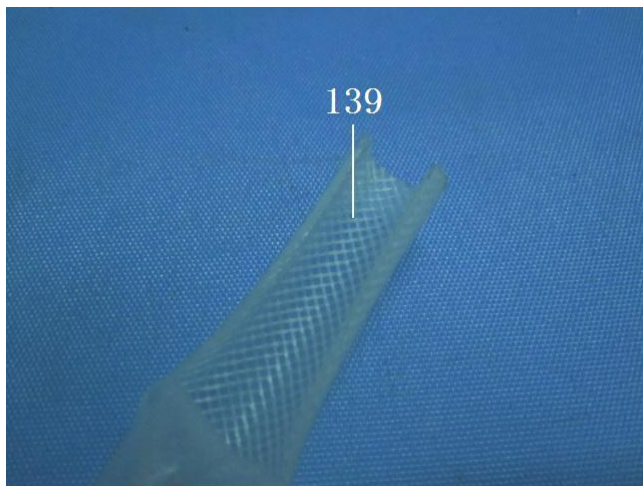
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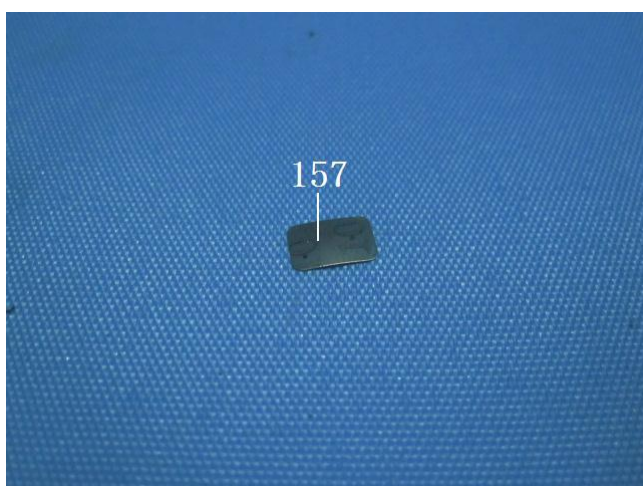
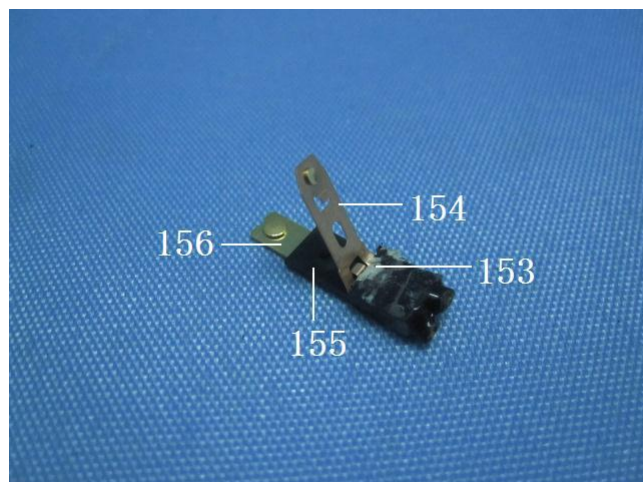
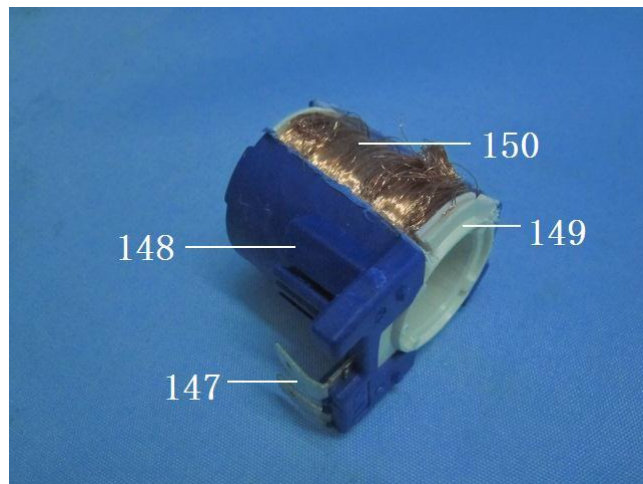
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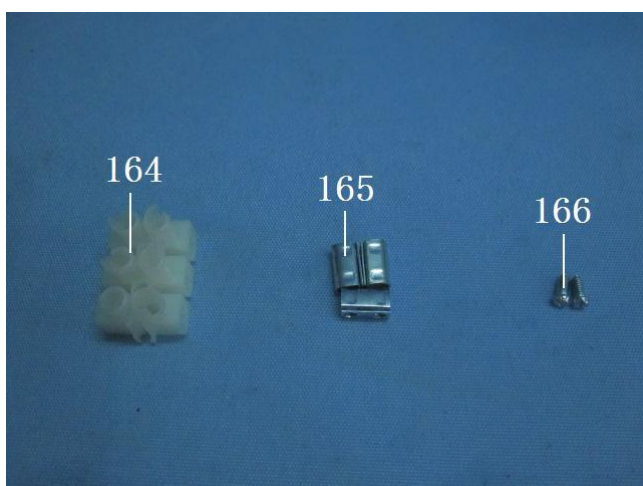
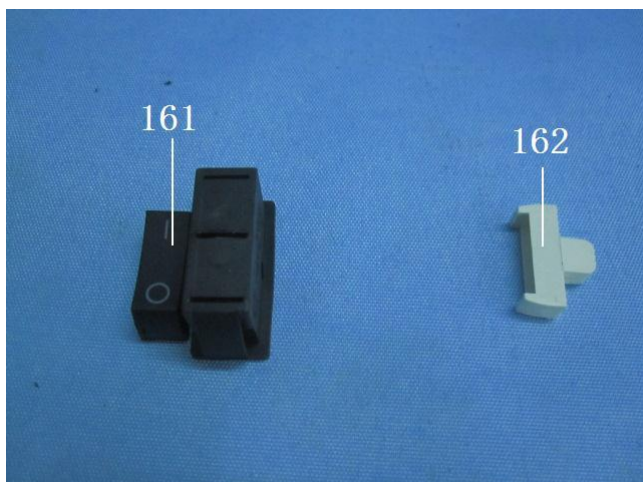
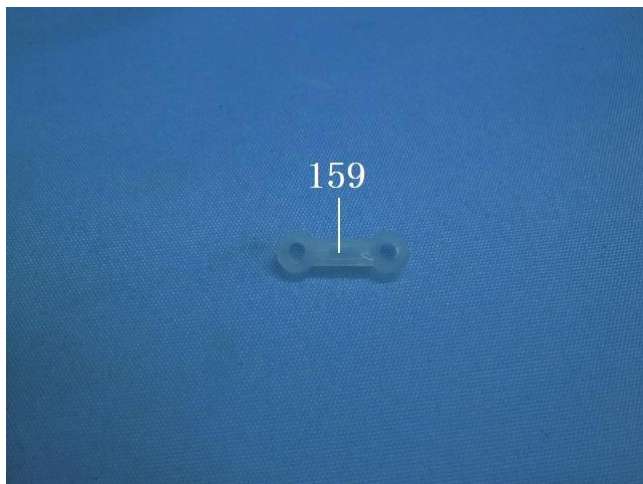
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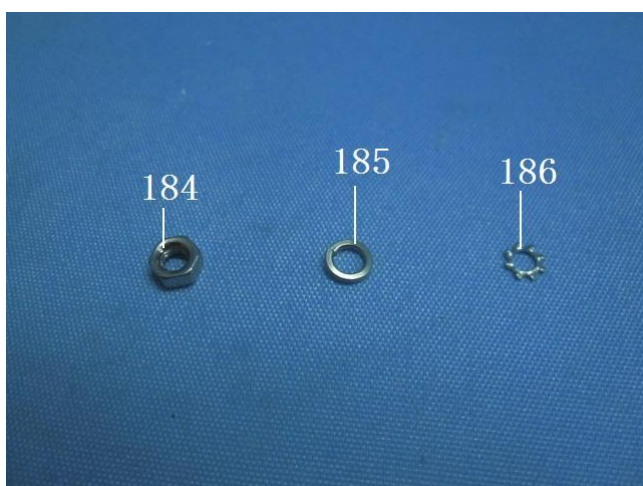
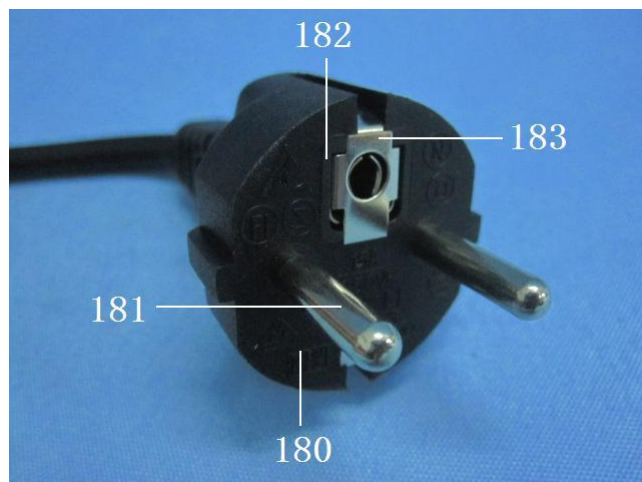
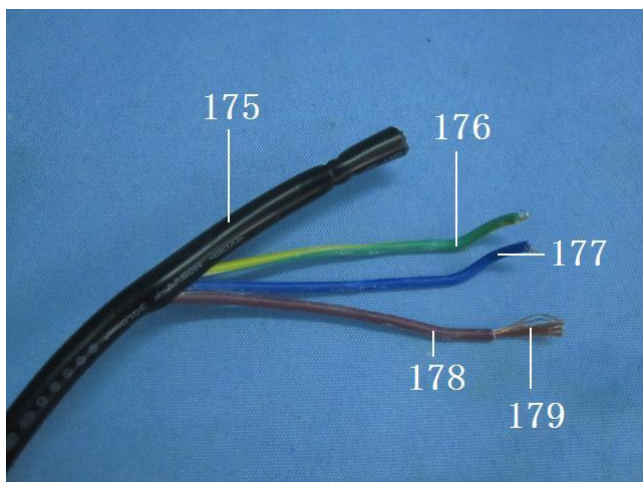
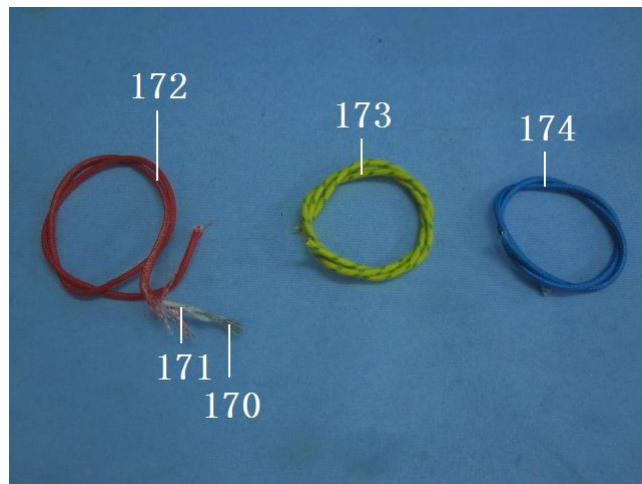
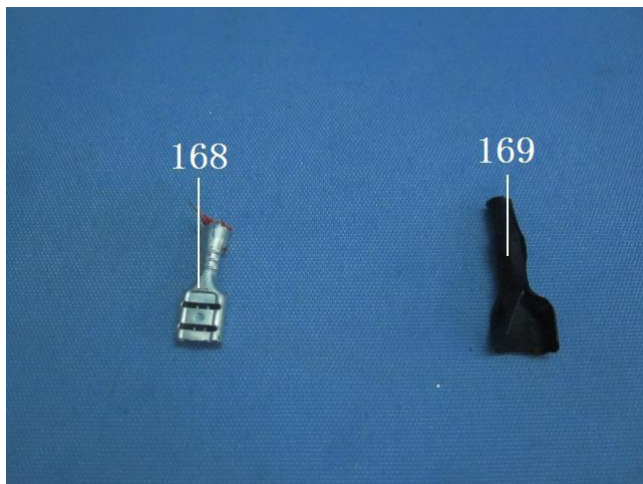
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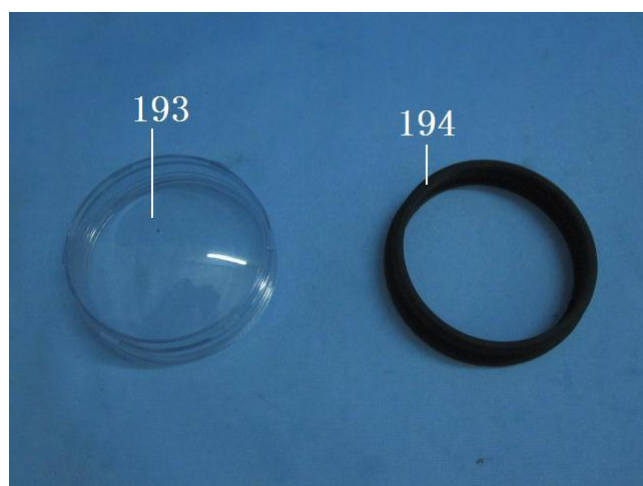
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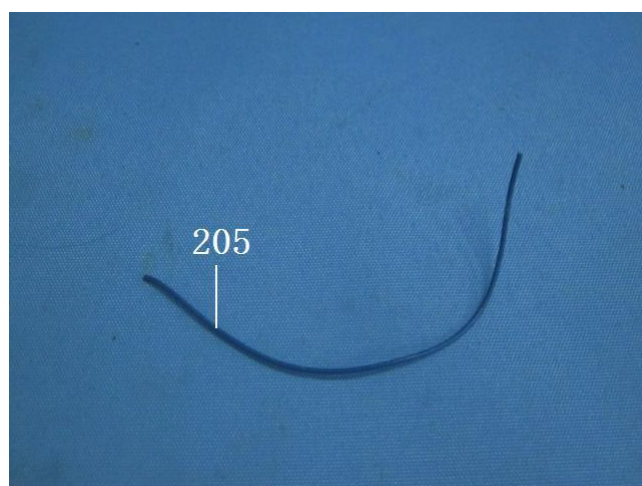
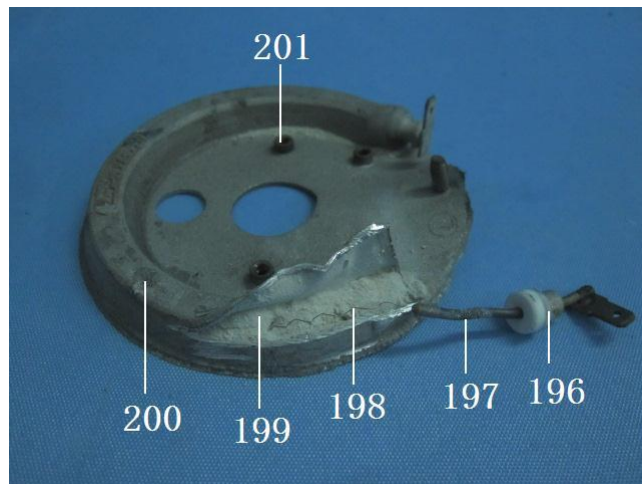




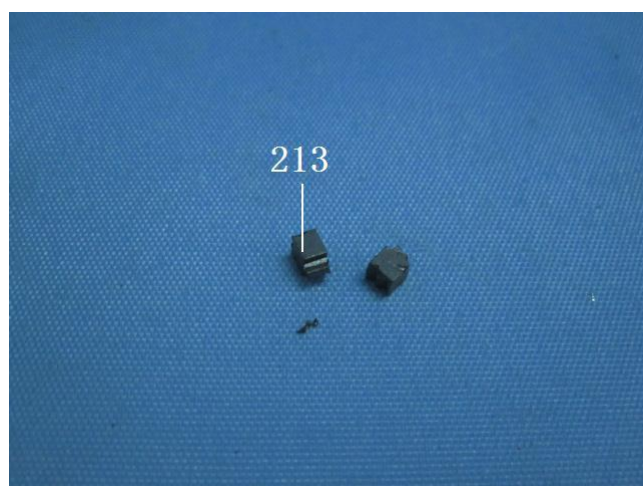
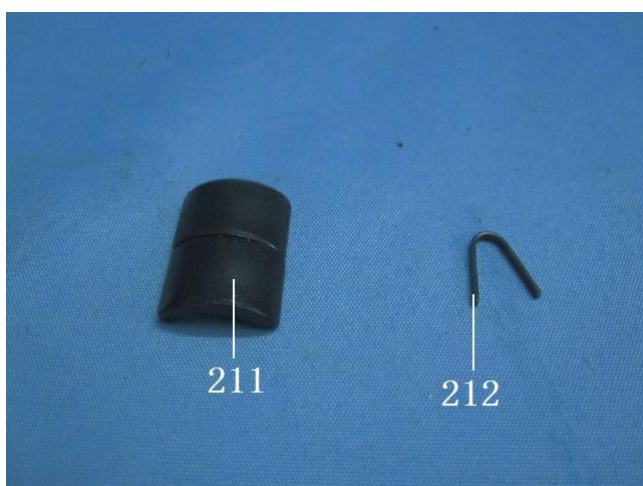
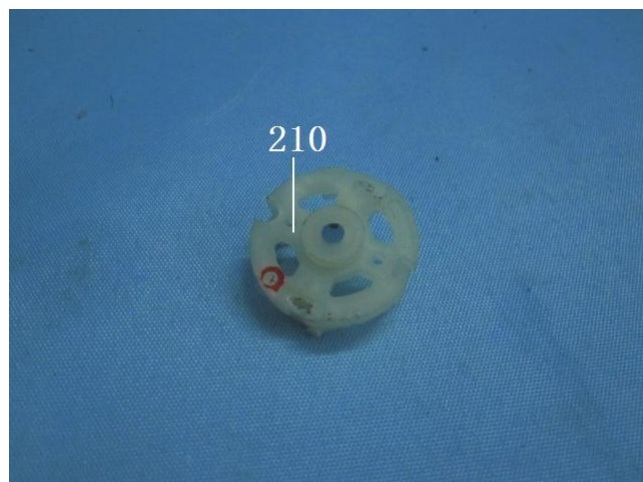
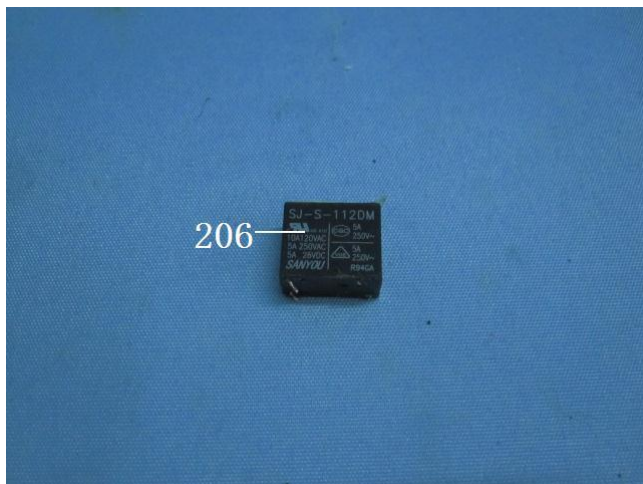












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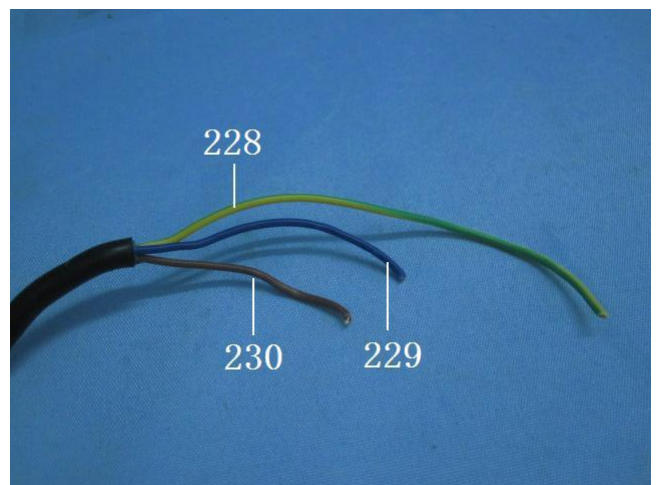
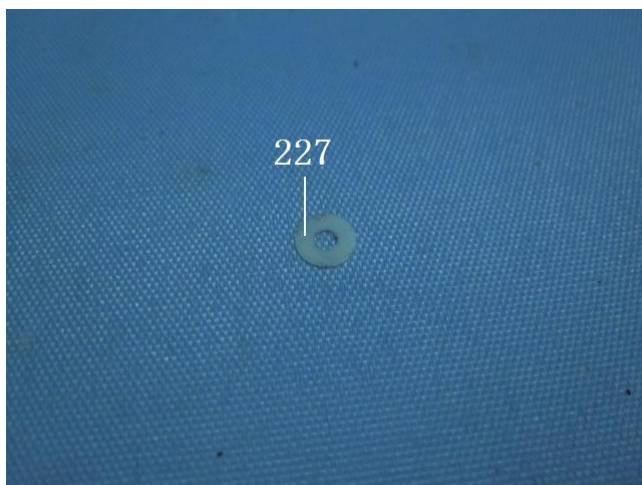
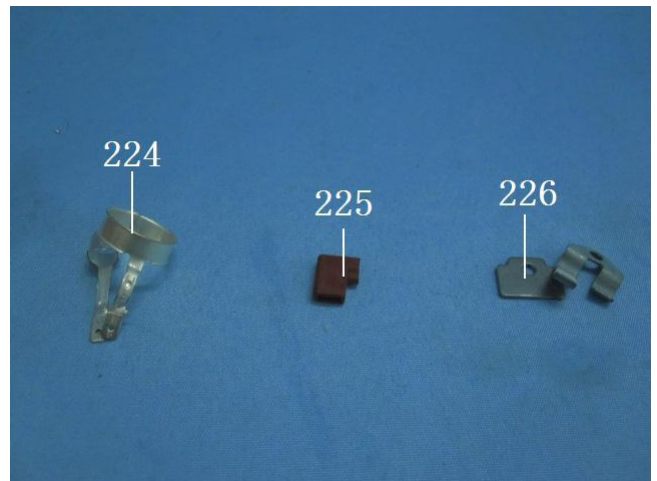
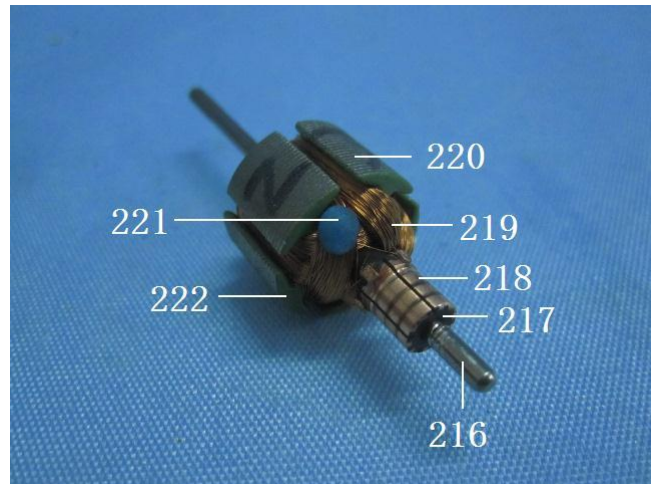
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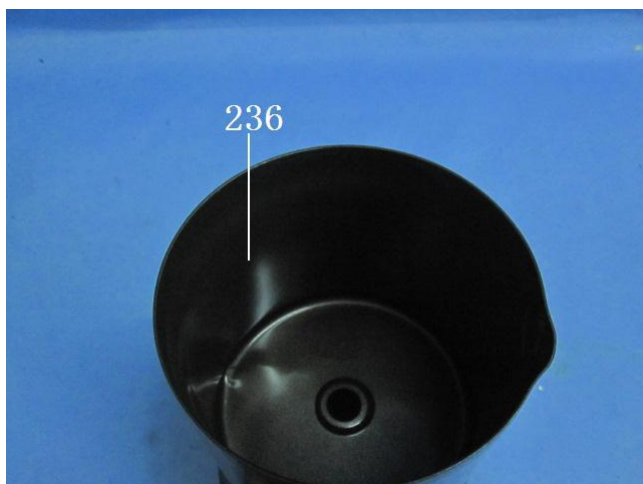
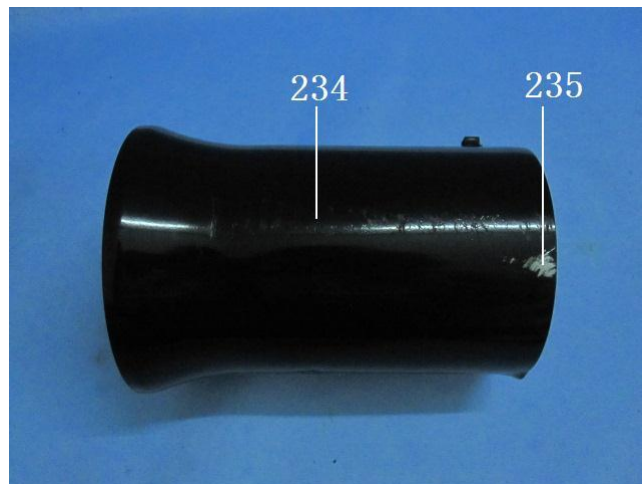
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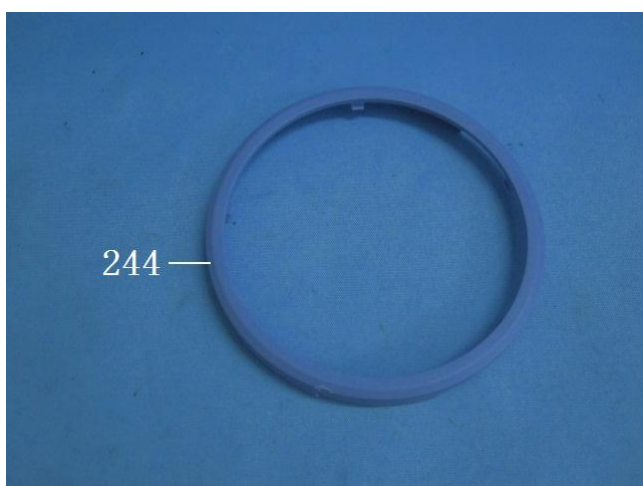
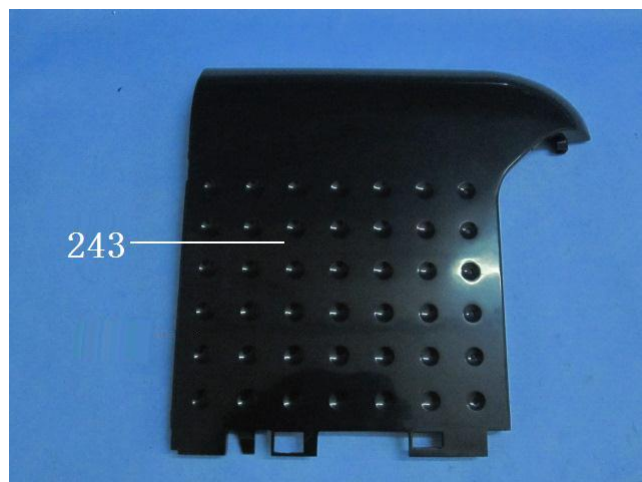
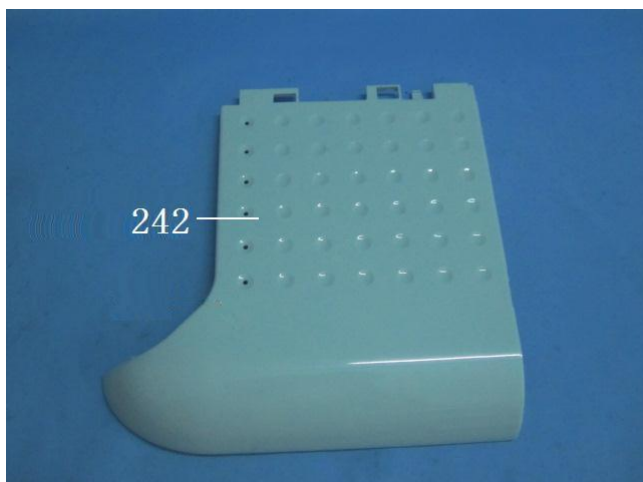
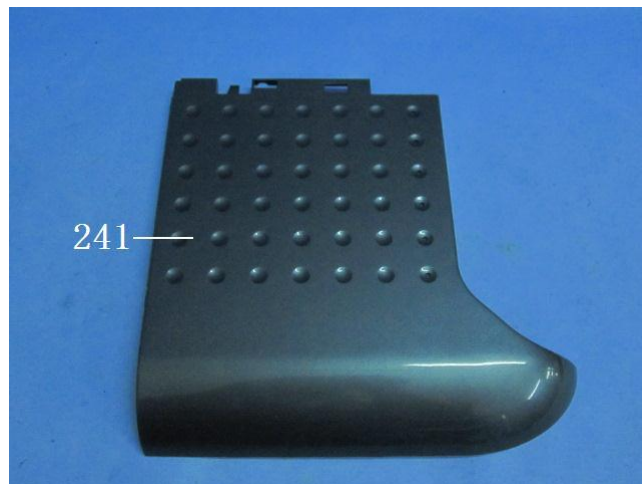
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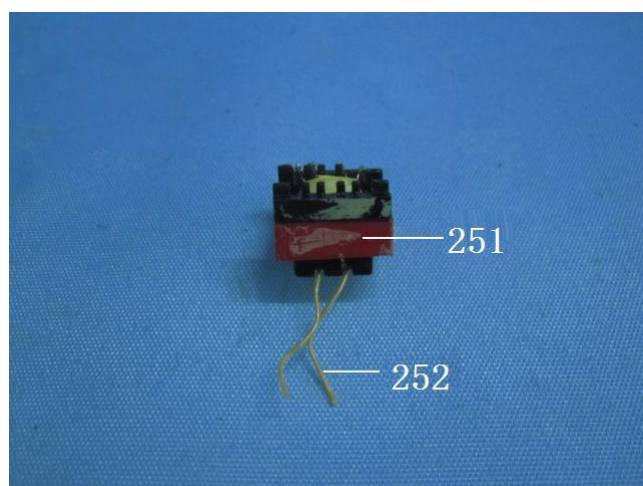
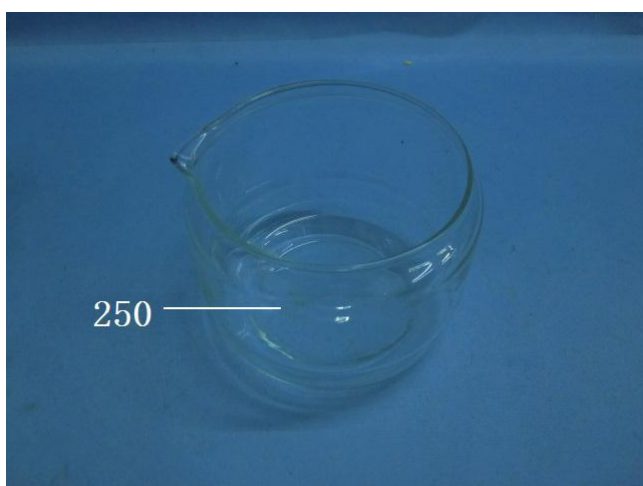
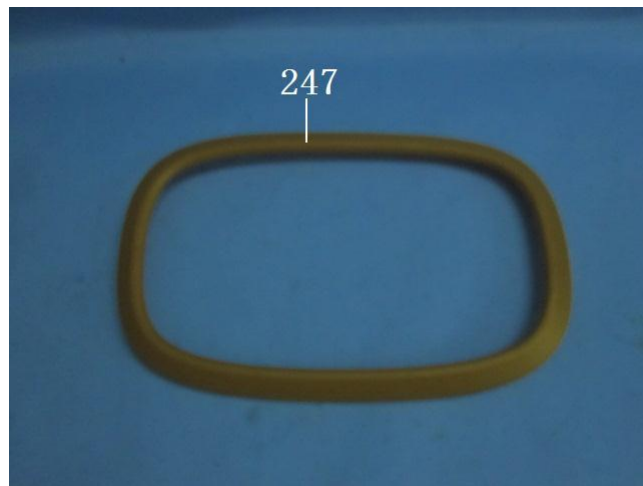
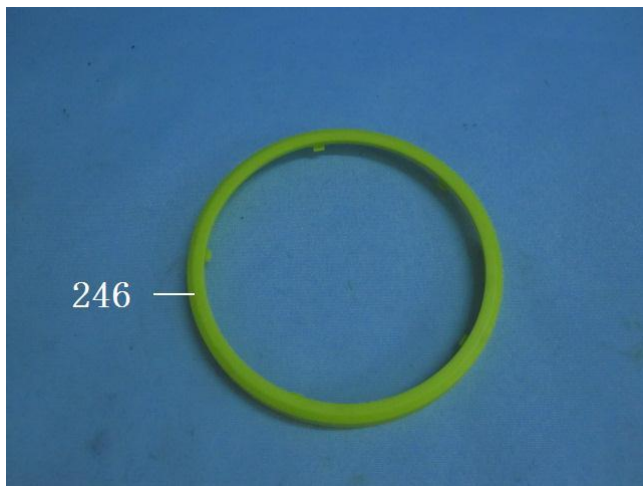
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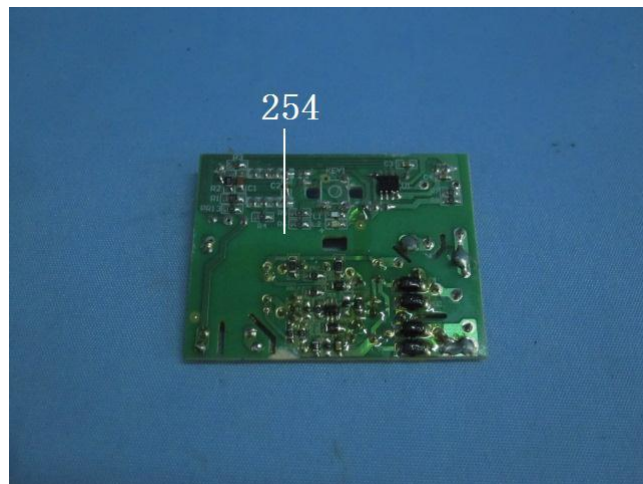
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## 2 Test Results

### 2.1 XRF Screening test or(and) Chemical test on the Submitted Sample(s).

Sample No.	Sample description	Test Results, mg/kg					
		Cd	Pb	Hg	Cr(VI)	PBBs	PBDEs
001	Red coating	BL	BL	BL	BL	BL	BL
002	Beige plastic (base material)	BL	BL	BL	BL	BL	BL
003	Black plastic	BL	BL	BL	BL	BL	BL
004	Silvery metal	BL	BL	BL	Negative	NA	NA
005a	Silvery plating layer	BL	BL	BL	Negative	NA	NA
005b	Beige plastic (base material)	BL	BL	BL	BL	BL	BL
006	Transparent black plastic	BL	BL	BL	BL	BL	BL
007	Silvery coating	BL	BL	BL	BL	BL	BL
008	Beige plastic (base material)	BL	BL	BL	BL	BL	BL
009	Transparent plastic	BL	BL	BL	BL	BL	BL
010	Silvery metal	BL	BL	BL	Negative	NA	NA
011	Transparent plastic	BL	BL	BL	BL	BL	BL
012	Red soft plastic	BL	BL	BL	BL	BL	BL
013	Black plastic	BL	BL	BL	BL	BL	BL
014	Black soft plastic	BL	BL	BL	BL	BL	BL
015	Transparent plastic	BL	BL	BL	BL	BL	BL
016	Black soft plastic	BL	BL	BL	BL	BL	BL
017	Black plastic	BL	BL	BL	BL	BL	BL
018	White soft plastic	BL	BL	BL	BL	BL	BL
019	White plastic	BL	BL	BL	BL	BL	BL
020	Silvery metal	BL	BL	BL	BL	NA	NA

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Sample No.	Sample description	Test Results, mg/kg					
		Cd	Pb	Hg	Cr(VI)	PBBs	PBDEs
021	Brown plastic wire covering	BL	BL	BL	BL	BL	BL
022	Red plastic wire covering	BL	BL	BL	BL	BL	BL
023	Black plastic wire covering	BL	BL	BL	BL	BL	BL
024	Yellow plastic wire covering	BL	BL	BL	BL	BL	BL
025	Blue plastic wire covering	BL	BL	BL	BL	BL	BL
026	Black plastic	BL	BL	BL	BL	BL	BL
027	Transparent soft plastic with black printing	BL	BL	BL	BL	BL	BL
028	Transparent plastic	BL	BL	BL	BL	BL	BL
029	Silvery metal	BL	BL	BL	BL	NA	NA
030	Black plastic	BL	BL	BL	BL	ND	ND
031	Black plastic	BL	BL	BL	BL	BL	BL
032	Silvery metal	BL	BL	BL	BL	NA	NA
033	Silvery metal	BL	BL	BL	BL	NA	NA
034	Black plastic	BL	BL	BL	BL	BL	BL
035	Silvery metal	BL	BL	BL	BL	NA	NA
036	Yellow electronic component	BL	BL	BL	BL	BL	BL
037	Green PCB	BL	BL	BL	BL	ND	ND
038	Black electronic component	BL	BL	BL	BL	BL	BL
039	Black electronic component	BL	1686 <sup>#1</sup>	BL	BL	BL	BL
040	Green PCB	BL	BL	BL	BL	ND	ND
041	Transparent plastic	BL	BL	BL	BL	BL	BL
042	Black soft plastic	BL	BL	BL	BL	BL	BL
043	Black plastic	BL	BL	BL	BL	BL	BL

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Sample No.	Sample description	Test Results, mg/kg					
		Cd	Pb	Hg	Cr(VI)	PBBs	PBDEs
044	White plastic	BL	BL	BL	BL	BL	BL
045	Blue plastic	BL	BL	BL	BL	BL	BL
046	Black plastic	BL	BL	BL	BL	BL	BL
047	Black electronic component	BL	BL	BL	BL	ND	ND
048	Grey electronic component	BL	BL	BL	BL	BL	BL
049	Yellow electronic component	BL	BL	BL	BL	BL	BL
050	Green electronic component	BL	BL	BL	BL	BL	BL
051	White label with black printing	BL	BL	BL	BL	BL	BL
052	Green plastic with yellow printing	BL	BL	BL	BL	BL	BL
053	Silvery metal	BL	BL	BL	BL	BL	BL
054	Black plastic	BL	BL	BL	BL	BL	BL
055	Transparent plastic	BL	BL	BL	BL	BL	BL
056	Brown paper	BL	BL	BL	BL	BL	BL
057	Silvery grey metal	BL	BL	BL	BL	NA	NA
058	Grey metal	BL	BL	BL	BL	NA	NA
059	Silvery metal	BL	BL	BL	BL	NA	NA
060	Black plastic	BL	BL	BL	BL	ND	ND
061	Silvery metal	BL	BL	BL	BL	NA	NA
062	Yellow plastic	BL	BL	BL	BL	BL	BL
063	Black ceramic	BL	BL	BL	BL	BL	BL
064	Yellow plastic with grey printing	BL	BL	BL	BL	ND	ND
065	Silvery plastic	BL	BL	BL	BL	ND	ND
066	Yellow plastic	BL	BL	BL	BL	ND	ND

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Sample No.	Sample description	Test Results, mg/kg					
		Cd	Pb	Hg	Cr(VI)	PBBs	PBDEs
067	Black plastic with white printing	BL	BL	BL	BL	BL	BL
068	Black plastic	BL	BL	BL	BL	ND	ND
069	Silvery metal	BL	BL	BL	BL	NA	NA
070	White ceramic	ND	671518 <sup>#1</sup>	BL	BL	BL	BL
071	Golden metal	BL	BL	BL	BL	NA	NA
072	Semitransparent plastic	BL	BL	BL	BL	BL	BL
073	Black electronic component	BL	BL	BL	BL	BL	BL
074	Transparent label with black printing	BL	BL	BL	BL	BL	BL
075	Yellow plastic	BL	BL	BL	BL	BL	BL
076	Coppery enameled wire	BL	BL	BL	BL	BL	BL
077	Black finished metal	BL	BL	BL	BL	NA	NA
078	Black plastic	BL	BL	BL	BL	BL	BL
079	Coppery enameled wire	BL	BL	BL	BL	BL	BL
080	Silvery metal	BL	BL	BL	Negative	NA	NA
081	Green PCB	BL	BL	BL	BL	ND	ND
082	Black electronic component	BL	BL	BL	BL	BL	BL
083	Beige electronic component	BL	BL	BL	BL	BL	BL
084	Brown electronic component	BL	BL	BL	BL	BL	BL
085	Silvery metal (solder)	BL	BL	BL	BL	NA	NA
086	Black electronic component	BL	BL	BL	BL	ND	ND
087	Silvery electronic component	BL	19765 <sup>#2</sup>	BL	BL	BL	BL
088	Black plastic	BL	BL	BL	BL	BL	BL
089	Black plastic	BL	BL	BL	BL	ND	ND

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Sample No.	Sample description	Test Results, mg/kg					
		Cd	Pb	Hg	Cr(VI)	PBBs	PBDEs
090	Black plastic	BL	BL	BL	BL	BL	BL
091	Black plastic	BL	BL	BL	BL	BL	BL
092	Black plastic	BL	BL	BL	BL	ND	ND
093	Black coating	BL	BL	BL	BL	BL	BL
094	Silvery metal (base material)	ND	BL	BL	BL	NA	NA
095	Silvery metal	BL	BL	BL	Negative	NA	NA
096	Silvery metal	BL	BL	BL	Negative	NA	NA
097	Silvery metal	BL	BL	BL	Negative	NA	NA
098	Silvery metal	BL	BL	BL	Negative	NA	NA
099	Silvery metal	BL	BL	BL	Negative	NA	NA
100	Silvery metal spring	BL	BL	BL	Negative	NA	NA
101	Silvery metal spring	BL	BL	BL	Negative	NA	NA
102	Transparent soft plastic	BL	BL	BL	BL	BL	BL
103	Red soft plastic	BL	BL	BL	BL	BL	BL
104	Semitransparent soft plastic	BL	BL	BL	BL	BL	BL
105	Golden metal	BL	BL	BL	BL	NA	NA
106	Black plastic	BL	BL	BL	BL	BL	BL
107	White ceramic	BL	BL	BL	BL	BL	BL
108	Coppery metal	BL	BL	BL	BL	NA	NA
109	Silvery metal	BL	BL	BL	BL	NA	NA
110	White powder	BL	BL	BL	BL	BL	BL
111	Dark red plastic	BL	BL	BL	BL	BL	BL
112	Silvery metal	BL	BL	BL	BL	NA	NA

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Sample No.	Sample description	Test Results, mg/kg					
		Cd	Pb	Hg	Cr(VI)	PBBs	PBDEs
113	White ceramic	BL	BL	BL	BL	BL	BL
114a	Transparent glass	ND	100901 <sup>#1</sup>	BL	BL	BL	BL
114b	Red enameled wire	BL	BL	BL	BL	BL	BL
115	Coppery metal	BL	BL	BL	BL	NA	NA
116	Brown plastic	BL	BL	BL	BL	BL	BL
117	Black plastic	BL	BL	BL	BL	ND	ND
118	Red plastic	BL	BL	BL	BL	BL	BL
119	Grey plastic	BL	BL	BL	BL	ND	ND
120	Silvery metal	BL	BL	BL	BL	NA	NA
121	Silvery metal (electrical contact)	34279 <sup>#4</sup>	BL	BL	BL	NA	NA
122	Coppery metal	BL	BL	BL	BL	NA	NA
123	Silvery metal	BL	BL	BL	BL	NA	NA
124	Silvery metal	BL	BL	BL	Negative	NA	NA
125	Silvery grey metal	BL	BL	BL	BL	NA	NA
126	Grey metal	BL	BL	BL	Negative	NA	NA
127	Beige plastic	BL	BL	BL	BL	BL	BL
128	Black plastic	BL	BL	BL	BL	BL	BL
129	Black plastic	BL	BL	BL	BL	BL	BL
130	Black plastic	BL	BL	BL	BL	BL	BL
131	Transparent soft plastic	BL	BL	BL	BL	BL	BL
132	Transparent soft plastic	BL	BL	BL	BL	BL	BL
133	Dark purple plastic	BL	BL	BL	BL	ND	ND
134	Black soft plastic	BL	BL	BL	BL	BL	BL

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Sample No.	Sample description	Test Results, mg/kg					
		Cd	Pb	Hg	Cr(VI)	PBBs	PBDEs
135	Grey metal spring	BL	BL	BL	Negative	NA	NA
136	Silvery metal	BL	BL	BL	Negative	NA	NA
137	Black soft plastic	BL	BL	BL	BL	BL	BL
138	Beige plastic	BL	BL	BL	BL	BL	BL
139	Semitransparent soft plastic	BL	BL	BL	BL	BL	BL
140	Red plastic	BL	BL	BL	BL	BL	BL
141	Black magnet	BL	BL	BL	BL	NA	NA
142	Silvery metal	BL	BL	BL	Negative	NA	NA
143	Silvery metal	BL	BL	BL	Negative	NA	NA
144	White label with black printing	BL	BL	BL	BL	BL	BL
145	Light blue metal	BL	BL	BL	Negative	NA	NA
146	Black electronic component	BL	BL	BL	BL	ND	ND
147	Silvery metal	BL	BL	BL	BL	NA	NA
148	Blue plastic	BL	BL	BL	BL	ND	ND
149	White plastic	BL	BL	BL	BL	ND	ND
150	Coppery enameled wire	BL	BL	BL	BL	BL	BL
151	Blue plastic with white printing	BL	BL	BL	BL	ND	ND
152	Black plastic	BL	BL	BL	BL	BL	BL
153	White plastic	BL	BL	BL	BL	ND	ND
154	Coppery metal	BL	BL	BL	BL	NA	NA
155	Black plastic	BL	BL	BL	BL	ND	ND
156	Golden metal	BL	BL	BL	BL	NA	NA
157	Silvery metal	BL	BL	BL	BL	NA	NA

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Sample No.	Sample description	Test Results, mg/kg					
		Cd	Pb	Hg	Cr(VI)	PBBs	PBDEs
158	Black plastic	BL	BL	BL	BL	BL	BL
159	Transparent plastic	BL	BL	BL	BL	BL	BL
160	Black plastic	BL	BL	BL	BL	BL	BL
161	Black plastic with grey printing	BL	BL	BL	BL	ND	ND
162	White plastic	BL	BL	BL	BL	ND	ND
163	Silvery metal	BL	BL	BL	BL	NA	NA
164	Beige plastic	BL	BL	BL	BL	BL	BL
165	Light blue metal	BL	BL	BL	Negative	NA	NA
166	Light blue metal	BL	BL	BL	Negative	NA	NA
167	Silvery metal	BL	BL	BL	BL	NA	NA
168	Silvery metal	BL	BL	BL	BL	NA	NA
169	Black plastic	BL	BL	BL	BL	BL	BL
170	Silvery metal	BL	BL	BL	BL	NA	NA
171	White plastic wire covering	BL	BL	BL	BL	BL	BL
172	Red fiber	BL	BL	BL	BL	BL	BL
173	Yellow/Green fiber	BL	BL	BL	BL	BL	BL
174	Blue fiber	BL	BL	BL	BL	BL	BL
175	Black plastic	BL	BL	BL	BL	BL	BL
176	Yellow/Green plastic wire covering	BL	BL	BL	BL	BL	BL
177	Blue plastic wire covering	BL	BL	BL	BL	BL	BL
178	Brown plastic wire covering	BL	BL	BL	BL	BL	BL
179	Coppery metal	BL	BL	BL	BL	NA	NA
180	Black plastic	BL	BL	BL	BL	BL	BL

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Sample No.	Sample description	Test Results, mg/kg					
		Cd	Pb	Hg	Cr(VI)	PBBs	PBDEs
181	Silvery metal	36	24121 <sup>#3</sup>	BL	BL	NA	NA
182	Black plastic	BL	BL	BL	BL	ND	ND
183	Silvery metal	BL	BL	BL	BL	NA	NA
184	Silvery metal nut	BL	BL	BL	Negative	NA	NA
185	Silvery metal gasket	BL	BL	BL	Negative	NA	NA
186	Silvery metal gasket	BL	BL	BL	Negative	NA	NA
187	Silvery metal screw	BL	BL	BL	Negative	NA	NA
188	Black plastic	BL	BL	BL	BL	BL	BL
189	Black plastic	BL	BL	BL	BL	BL	BL
190	Black plastic	BL	BL	BL	BL	ND	ND
191	Black plastic	BL	BL	BL	BL	BL	BL
192	Silvery plating layer	BL	BL	BL	Negative	NA	NA
193	Transparent plastic	BL	BL	BL	BL	BL	BL
194	Black soft plastic	BL	BL	BL	BL	BL	BL
195	Golden metal	BL	BL	BL	BL	NA	NA
196	White ceramic	BL	BL	BL	BL	BL	BL
197	Grey metal	BL	BL	BL	BL	NA	NA
198	Grey metal	BL	BL	BL	Negative	NA	NA
199	White powder	BL	BL	BL	BL	BL	BL
200	Silvery grey metal	BL	BL	BL	BL	NA	NA
201	Grey metal	BL	BL	BL	BL	NA	NA
202	Silvery metal	BL	BL	BL	Negative	NA	NA
203	Blue plastic	BL	BL	BL	BL	BL	BL

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Sample No.	Sample description	Test Results, mg/kg					
		Cd	Pb	Hg	Cr(VI)	PBBs	PBDEs
204	White fiber	BL	BL	BL	BL	BL	BL
205	Blue plastic wire covering	BL	BL	BL	BL	BL	BL
206	Black electronic component	BL	BL	BL	BL	ND	ND
207	White plastic	BL	BL	BL	BL	ND	ND
208	Black plastic	BL	BL	BL	BL	ND	ND
209	Silvery metal	BL	BL	BL	Negative	NA	NA
210	Beige plastic	BL	BL	BL	BL	BL	BL
211	Black magnet	BL	BL	BL	ND	NA	NA
212	Grey metal	BL	BL	BL	BL	NA	NA
213	Black solid	BL	BL	BL	BL	BL	BL
214	Coppery metal	BL	BL	BL	BL	NA	NA
215	Light coppery metal	BL	BL	BL	BL	NA	NA
216	Silvery metal	BL	BL	BL	BL	NA	NA
217	Black plastic	BL	BL	BL	BL	BL	BL
218	Coppery metal	BL	BL	BL	BL	NA	NA
219	Coppery enameled wire	BL	BL	BL	BL	BL	BL
220	Silvery metal	BL	BL	BL	Negative	NA	NA
221	Blue plastic	BL	BL	BL	BL	BL	BL
222	Green plastic	BL	BL	BL	BL	BL	BL
223	Golden metal	BL	BL	BL	BL	NA	NA
224	Silvery metal	BL	BL	BL	BL	NA	NA
225	Red plastic	BL	BL	BL	BL	BL	BL
226	Silvery grey metal	BL	BL	BL	Negative	NA	NA

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Sample No.	Sample description	Test Results, mg/kg					
		Cd	Pb	Hg	Cr(VI)	PBBs	PBDEs
227	White plastic	BL	BL	BL	BL	BL	BL
228	Yellow/Green plastic wire covering	BL	BL	BL	BL	BL	BL
229	Blue plastic wire covering	BL	BL	BL	BL	BL	BL
230	Brown plastic wire covering	BL	BL	BL	BL	BL	BL
231	Black plastic	BL	BL	BL	BL	BL	BL
232	Black plastic	BL	BL	BL	BL	ND	ND
233	Silvery metal	BL	BL	BL	BL	NA	NA
234	Black coating	BL	BL	BL	BL	BL	BL
235	Silvery metal (base material)	BL	BL	BL	Negative	NA	NA
236	Grey coating	BL	BL	BL	BL	BL	BL
237	Red coating	BL	BL	BL	BL	BL	BL
238	White coating	BL	BL	BL	BL	BL	BL
239	Grey coating	BL	BL	BL	BL	BL	BL
240	Golden coating	BL	BL	BL	BL	BL	BL
241	Grey coating	BL	BL	BL	BL	BL	BL
242	White plastic	BL	BL	BL	BL	BL	BL
243	Black plastic	BL	BL	BL	BL	BL	BL
244	Blue plastic	BL	BL	BL	BL	BL	BL
245	Brown plastic	BL	BL	BL	BL	BL	BL
246	Yellow green plastic	BL	BL	BL	BL	BL	BL
247	Brownness plastic	BL	BL	BL	BL	BL	BL
248	White ceramic	BL	BL	BL	BL	BL	BL
249	Black ceramic	BL	BL	BL	ND	BL	BL

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Sample No.	Sample description	Test Results, mg/kg					
		Cd	Pb	Hg	Cr(VI)	PBBs	PBDEs
250	Transparent glass	BL	BL	BL	BL	BL	BL
251	Red plastic	BL	BL	BL	BL	BL	BL
252	Yellow plastic wire covering	BL	BL	BL	BL	BL	BL
253	Black plastic	BL	BL	BL	BL	BL	BL
254	Green PCB	BL	BL	BL	BL	ND	ND
255	Silvery metal (solder)	BL	BL	BL	BL	NA	NA

**Remark:**

BL = Below Limit, Comply with RoHS requirement based on XRF Screening test. please see 3.1.

ND =Not Detected (less than Report Limit);

NA= Not applicable;

Negative = The absence of Cr(VI)

**Cr(VI)** = Hexavalent Chromium.

**PBBs** = Polybrominated Biphenyls

**PBDEs**= Polybrominated Biphenyl Ethers

According to the annex III to RoHS Directive 2011/65/EU:

**#1** = In accordance with item No.7(c)-I, Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound is exemption.

**#2** = In accordance with item No.7(a), Lead in high melting temperature type solder(i. e. lead-based alloy containing 85% by weight or more lead) is exemption.

**#3** = In accordance with item No.6(c), Copper alloy containing up to **4 %** lead by weight is exemption.

**#4** = In accordance with item No.8(b), Cadmium and its compounds in electrical contacts is exemption.

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**2.2 Test for Polybrominated Biphenyls (PBBs) & Polybrominated Diphenyl Ethers (PBDEs)**

Testing Item	Result, mg/kg				
	030	037	040	047	060
Monobromobiphenyl (MonoBB)	ND	ND	ND	ND	ND
Dibromobiphenyl (DiBB)	ND	ND	ND	ND	ND
Tribromobiphenyl (TriBB)	ND	ND	ND	ND	ND
Tetrabromobiphenyl (TetraBB)	ND	ND	ND	ND	ND
Pentabromobiphenyl (PentaBB)	ND	ND	ND	ND	ND
Hexabromobiphenyl (HexaBB)	ND	ND	ND	ND	ND
Heptabromobiphenyl (HeptaBB)	ND	ND	ND	ND	ND
Octabromobiphenyl (OctaBB)	ND	ND	ND	ND	ND
Nonabromobiphenyl (NonaBB)	ND	ND	ND	ND	ND
Decabromobiphenyl (DecaBB)	ND	ND	ND	ND	ND
<b>Polybrominated Biphenyls (PBBs)</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
Limit	1000				
Monobromodiphenyl Ether (MonoBDE)	ND	ND	ND	ND	ND
Dibromodiphenyl Ether (DiBDE)	ND	ND	ND	ND	ND
Tribromodiphenyl Ether (TriBDE)	ND	ND	ND	ND	ND
Tetrabromodiphenyl Ether (TetraBDE)	ND	ND	ND	ND	ND
Pentabromodiphenyl Ether (PentaBDE)	ND	ND	ND	ND	ND
Hexabromodiphenyl Ether (HexaBDE)	ND	ND	ND	ND	ND
Heptabromodiphenyl Ether (HeptaBDE)	ND	ND	ND	ND	ND
Octabromodiphenyl Ether (OctaBDE)	ND	ND	ND	ND	ND
Nonabromodiphenyl Ether (NonaBDE)	ND	ND	ND	ND	ND
Decabromodiphenyl Ether (DecaBDE)	ND	ND	ND	ND	ND
<b>Polybrominated Diphenyl Ethers (PBDEs)</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
Limit	1000				

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Testing Item	Result, mg/kg				
	064	065	066	068	081
Monobromobiphenyl (MonoBB)	ND	ND	ND	ND	ND
Dibromobiphenyl (DiBB)	ND	ND	ND	ND	ND
Tribromobiphenyl (TriBB)	ND	ND	ND	ND	ND
Tetrabromobiphenyl (TetraBB)	ND	ND	ND	ND	ND
Pentabromobiphenyl (PentaBB)	ND	ND	ND	ND	ND
Hexabromobiphenyl (HexaBB)	ND	ND	ND	ND	ND
Heptabromobiphenyl (HeptaBB)	ND	ND	ND	ND	ND
Octabromobiphenyl (OctaBB)	ND	ND	ND	ND	ND
Nonabromobiphenyl (NonaBB)	ND	ND	ND	ND	ND
Decabromobiphenyl (DecaBB)	ND	ND	ND	ND	ND
<b>Polybrominated Biphenyls (PBBs)</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
Limit	1000				
Monobromodiphenyl Ether (MonoBDE)	ND	ND	ND	ND	ND
Dibromodiphenyl Ether (DiBDE)	ND	ND	ND	ND	ND
Tribromodiphenyl Ether (TriBDE)	ND	ND	ND	ND	ND
Tetrabromodiphenyl Ether (TetraBDE)	ND	ND	ND	ND	ND
Pentabromodiphenyl Ether (PentaBDE)	ND	ND	ND	ND	ND
Hexabromodiphenyl Ether (HexaBDE)	ND	ND	ND	ND	ND
Heptabromodiphenyl Ether (HeptaBDE)	ND	ND	ND	ND	ND
Octabromodiphenyl Ether (OctaBDE)	ND	ND	ND	ND	ND
Nonabromodiphenyl Ether (NonaBDE)	ND	ND	ND	ND	ND
Decabromodiphenyl Ether (DecaBDE)	ND	ND	ND	ND	ND
<b>Polybrominated Diphenyl Ethers (PBDEs)</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
Limit	1000				

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Testing Item	Result, mg/kg				
	086	089	092	117	119
Monobromobiphenyl (MonoBB)	ND	ND	ND	ND	ND
Dibromobiphenyl (DiBB)	ND	ND	ND	ND	ND
Tribromobiphenyl (TriBB)	ND	ND	ND	ND	ND
Tetrabromobiphenyl (TetraBB)	ND	ND	ND	ND	ND
Pentabromobiphenyl (PentaBB)	ND	ND	ND	ND	ND
Hexabromobiphenyl (HexaBB)	ND	ND	ND	ND	ND
Heptabromobiphenyl (HeptaBB)	ND	ND	ND	ND	ND
Octabromobiphenyl (OctaBB)	ND	ND	ND	ND	ND
Nonabromobiphenyl (NonaBB)	ND	ND	ND	ND	ND
Decabromobiphenyl (DecaBB)	ND	ND	ND	ND	ND
<b>Polybrominated Biphenyls (PBBs)</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
Limit	1000				
Monobromodiphenyl Ether (MonoBDE)	ND	ND	ND	ND	ND
Dibromodiphenyl Ether (DiBDE)	ND	ND	ND	ND	ND
Tribromodiphenyl Ether (TriBDE)	ND	ND	ND	ND	ND
Tetrabromodiphenyl Ether (TetraBDE)	ND	ND	ND	ND	ND
Pentabromodiphenyl Ether (PentaBDE)	ND	ND	ND	ND	ND
Hexabromodiphenyl Ether (HexaBDE)	ND	ND	ND	ND	ND
Heptabromodiphenyl Ether (HeptaBDE)	ND	ND	ND	ND	ND
Octabromodiphenyl Ether (OctaBDE)	ND	ND	ND	ND	ND
Nonabromodiphenyl Ether (NonaBDE)	ND	ND	ND	ND	ND
Decabromodiphenyl Ether (DecaBDE)	ND	ND	ND	ND	ND
<b>Polybrominated Diphenyl Ethers (PBDEs)</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
Limit	1000				

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Testing Item	Result, mg/kg				
	133	146	148	149	151
Monobromobiphenyl (MonoBB)	ND	ND	ND	ND	ND
Dibromobiphenyl (DiBB)	ND	ND	ND	ND	ND
Tribromobiphenyl (TriBB)	ND	ND	ND	ND	ND
Tetrabromobiphenyl (TetraBB)	ND	ND	ND	ND	ND
Pentabromobiphenyl (PentaBB)	ND	ND	ND	ND	ND
Hexabromobiphenyl (HexaBB)	ND	ND	ND	ND	ND
Heptabromobiphenyl (HeptaBB)	ND	ND	ND	ND	ND
Octabromobiphenyl (OctaBB)	ND	ND	ND	ND	ND
Nonabromobiphenyl (NonaBB)	ND	ND	ND	ND	ND
Decabromobiphenyl (DecaBB)	ND	ND	ND	ND	ND
<b>Polybrominated Biphenyls (PBBs)</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
Limit	1000				
Monobromodiphenyl Ether (MonoBDE)	ND	ND	ND	ND	ND
Dibromodiphenyl Ether (DiBDE)	ND	ND	ND	ND	ND
Tribromodiphenyl Ether (TriBDE)	ND	ND	ND	ND	ND
Tetrabromodiphenyl Ether (TetraBDE)	ND	ND	ND	ND	ND
Pentabromodiphenyl Ether (PentaBDE)	ND	ND	ND	ND	ND
Hexabromodiphenyl Ether (HexaBDE)	ND	ND	ND	ND	ND
Heptabromodiphenyl Ether (HeptaBDE)	ND	ND	ND	ND	ND
Octabromodiphenyl Ether (OctaBDE)	ND	ND	ND	ND	ND
Nonabromodiphenyl Ether (NonaBDE)	ND	ND	ND	ND	ND
Decabromodiphenyl Ether (DecaBDE)	ND	ND	ND	ND	ND
<b>Polybrominated Diphenyl Ethers (PBDEs)</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
Limit	1000				

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Testing Item	Result, mg/kg				
	153	155	161	162	182
Monobromobiphenyl (MonoBB)	ND	ND	ND	ND	ND
Dibromobiphenyl (DiBB)	ND	ND	ND	ND	ND
Tribromobiphenyl (TriBB)	ND	ND	ND	ND	ND
Tetrabromobiphenyl (TetraBB)	ND	ND	ND	ND	ND
Pentabromobiphenyl (PentaBB)	ND	ND	ND	ND	ND
Hexabromobiphenyl (HexaBB)	ND	ND	ND	ND	ND
Heptabromobiphenyl (HeptaBB)	ND	ND	ND	ND	ND
Octabromobiphenyl (OctaBB)	ND	ND	ND	ND	ND
Nonabromobiphenyl (NonaBB)	ND	ND	ND	ND	ND
Decabromobiphenyl (DecaBB)	ND	ND	ND	ND	ND
<b>Polybrominated Biphenyls (PBBs)</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
Limit	1000				
Monobromodiphenyl Ether (MonoBDE)	ND	ND	ND	ND	ND
Dibromodiphenyl Ether (DiBDE)	ND	ND	ND	ND	ND
Tribromodiphenyl Ether (TriBDE)	ND	ND	ND	ND	ND
Tetrabromodiphenyl Ether (TetraBDE)	ND	ND	ND	ND	ND
Pentabromodiphenyl Ether (PentaBDE)	ND	ND	ND	ND	ND
Hexabromodiphenyl Ether (HexaBDE)	ND	ND	ND	ND	ND
Heptabromodiphenyl Ether (HeptaBDE)	ND	ND	ND	ND	ND
Octabromodiphenyl Ether (OctaBDE)	ND	ND	ND	ND	ND
Nonabromodiphenyl Ether (NonaBDE)	ND	ND	ND	ND	ND
Decabromodiphenyl Ether (DecaBDE)	ND	ND	ND	ND	ND
<b>Polybrominated Diphenyl Ethers (PBDEs)</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
Limit	1000				

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Testing Item	Result, mg/kg					
	190	206	207	208	232	254
Monobromobiphenyl (MonoBB)	ND	ND	ND	ND	ND	ND
Dibromobiphenyl (DiBB)	ND	ND	ND	ND	ND	ND
Tribromobiphenyl (TriBB)	ND	ND	ND	ND	ND	ND
Tetrabromobiphenyl (TetraBB)	ND	ND	ND	ND	ND	ND
Pentabromobiphenyl (PentaBB)	ND	ND	ND	ND	ND	ND
Hexabromobiphenyl (HexaBB)	ND	ND	ND	ND	ND	ND
Heptabromobiphenyl (HeptaBB)	ND	ND	ND	ND	ND	ND
Octabromobiphenyl (OctaBB)	ND	ND	ND	ND	ND	ND
Nonabromobiphenyl (NonaBB)	ND	ND	ND	ND	ND	ND
Decabromobiphenyl (DecaBB)	ND	ND	ND	ND	ND	ND
<b>Polybrominated Biphenyls (PBBs)</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
Limit	1000					
Monobromodiphenyl Ether (MonoBDE)	ND	ND	ND	ND	ND	ND
Dibromodiphenyl Ether (DiBDE)	ND	ND	ND	ND	ND	ND
Tribromodiphenyl Ether (TriBDE)	ND	ND	ND	ND	ND	ND
Tetrabromodiphenyl Ether (TetraBDE)	ND	ND	ND	ND	ND	ND
Pentabromodiphenyl Ether (PentaBDE)	ND	ND	ND	ND	ND	ND
Hexabromodiphenyl Ether (HexaBDE)	ND	ND	ND	ND	ND	ND
Heptabromodiphenyl Ether (HeptaBDE)	ND	ND	ND	ND	ND	ND
Octabromodiphenyl Ether (OctaBDE)	ND	ND	ND	ND	ND	ND
Nonabromodiphenyl Ether (NonaBDE)	ND	ND	ND	ND	ND	ND
Decabromodiphenyl Ether (DecaBDE)	ND	ND	ND	ND	ND	ND
<b>Polybrominated Diphenyl Ethers (PBDEs)</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
Limit	1000					

Remark:

mg/kg = parts per million = ppm.

ND = Not Detected, less than the reporting limit.

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### 3 Test Methods and Limit

#### 3.1 XRF Screening test limits in mg/kg for regulated elements in different materials

Element	Judgment	Metallic and non-Metallic materials	Polymer	Complex Material
Cd	BL	$X \leq (70-3\sigma)$	$X \leq (70-3\sigma)$	$X \leq (50-3\sigma)$
	Inconclusive	$(70-3\sigma) < X < (130+3\sigma)$	$(70-3\sigma) < X < (130+3\sigma)$	$(50-3\sigma) < X < (150+3\sigma)$
	OL	$(130+3\sigma) \leq X$	$(130+3\sigma) \leq X$	$(150+3\sigma) \leq X$
Pb	BL	$X \leq (700-3\sigma)$	$X \leq (700-3\sigma)$	$X \leq (500-3\sigma)$
	Inconclusive	$(700-3\sigma) < X < (1300+3\sigma)$	$(700-3\sigma) < X < (1300+3\sigma)$	$(500-3\sigma) < X < (1500+3\sigma)$
	OL	$(1300+3\sigma) \leq X$	$(1300+3\sigma) \leq X$	$(1500+3\sigma) \leq X$
Hg	BL	$X \leq (700-3\sigma)$	$X \leq (700-3\sigma)$	$X \leq (500-3\sigma)$
	Inconclusive	$(700-3\sigma) < X < (1300+3\sigma)$	$(700-3\sigma) < X < (1300+3\sigma)$	$(500-3\sigma) < X < (1500+3\sigma)$
	OL	$(1300+3\sigma) \leq X$	$(1300+3\sigma) \leq X$	$(1500+3\sigma) \leq X$
Total Cr <sup>[a]</sup>	BL	$X \leq (700-3\sigma)$	$X \leq (700-3\sigma)$	$X \leq (700-3\sigma)$
	Inconclusive	$(700-3\sigma) < X$	$(700-3\sigma) < X$	$(700-3\sigma) < X$
Total Br <sup>[b]</sup>	BL	NA	$BL \leq (300-3\sigma)$	$BL \leq (250-3\sigma)$
	Inconclusive	NA	$(300-3\sigma) < X$	$(250-3\sigma) < X$

Remark:

 -  $\sigma$  = Standard Deviation.

- [a] The content of Cr(VI) is always less than total Cr, and BL means that the content of Cr(VI) &lt;1000 mg/kg.

- [b] The limit for total Br, with a 30 % margin of safety, is calculated based on the stoichiometry of Br in the most common congeners of PBB/PBDE, and BL means that the content of PBB/PBDE &lt;1000 mg/kg.

- BL = Below Limit, Comply with RoHS requirement based on XRF Screening test.

- OL= Over Limit, Not comply with RoHS requirement (100ppm for Cd, and 1000ppm for Pb/Hg) based on XRF Screening test.

- Inconclusive =Not to be confirmed by XRF Screening test, Chemical test need to be done.

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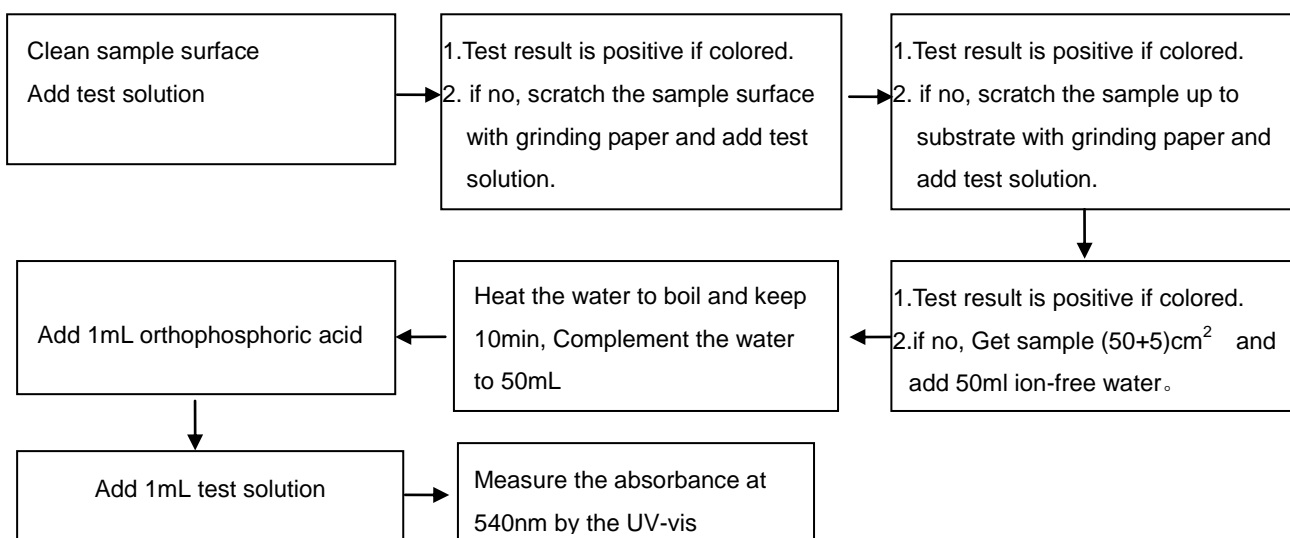
**3.2 Test methods , Report limit (RL) and Maximum Limit**

Testing Item	Testing Method	RL (mg/kg)	Maximum Limit (mg/kg)
Cd / Pb / Hg Total Cr / Br	With reference to IEC 62321-3-1:2013, Determined by XRF	-	-
Cadmium (Cd)	With reference to IEC 62321-5:2013, Determined by ICP-OES	5	100
Lead (Pb)		5	1000
Mercury (Hg)	With reference to IEC 62321-4:2013, Determined by ICP-OES	5	1000
Chromium (VI)	With reference to IEC 62321 (Edition 1.0 2008-12), Annex C. Determined by UV-VIS.	2	1000
	With reference to IEC 62321 (Edition 1.0 2008-12), Annex B. Determined by UV-VIS.	Negative Positive	Negative Positive
PBBs/PBDEs	With reference to IEC 62321 (Edition 1.0 2008-12), Annex A. Determined by GC/MS	5	1000

Remark:

Negative= The absence of Cr(VI).

 Positive= The presence of Cr(VI) by spot test, or the detected concentration in boiling-water-extraction solution is equal or greater than 0.02mg/kg with 50cm<sup>2</sup> sample surface area.

**4 Flow Charts**
**4.1 To Determine Hexavalent Chromium Content in Coating on Metals**

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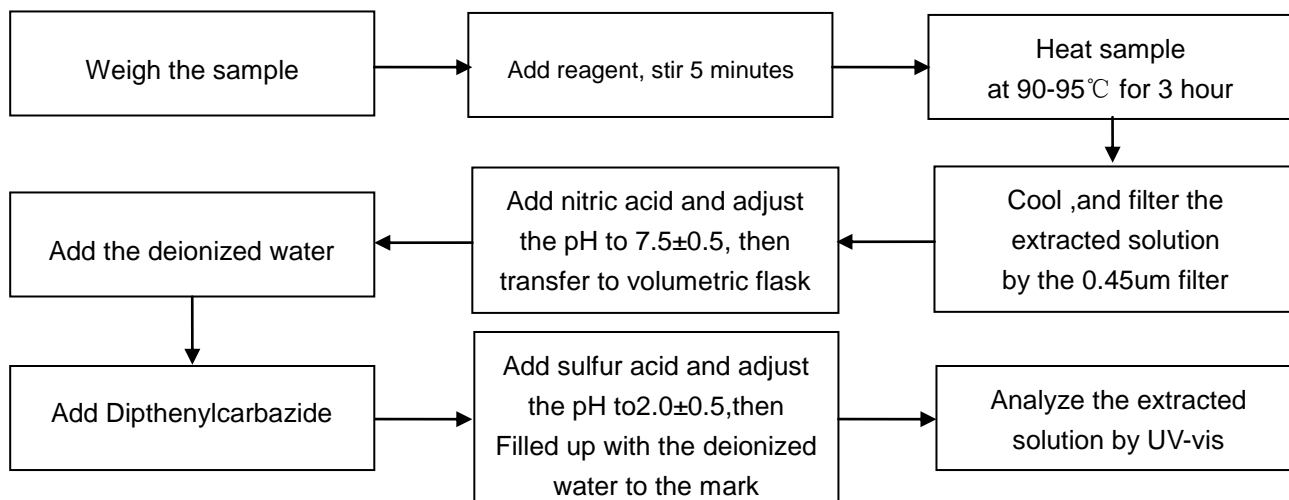
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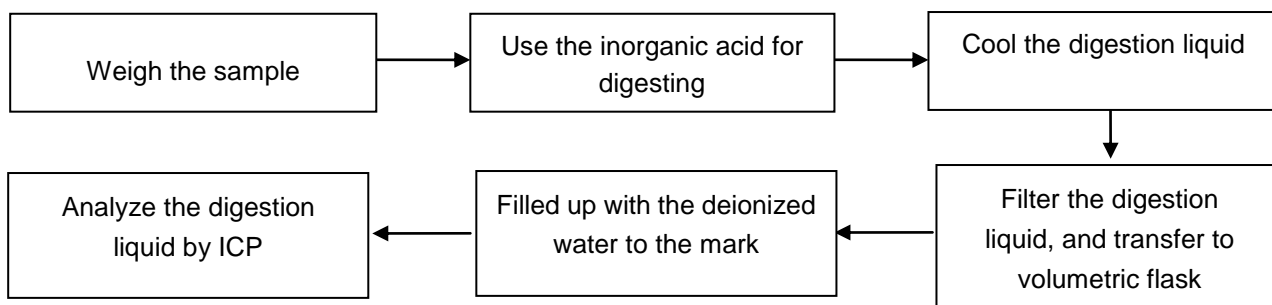
Tel: (86-760) 2283 3366 Fax: (86-760) 2283 3399

<http://www.lccert.com> Security code: 17640

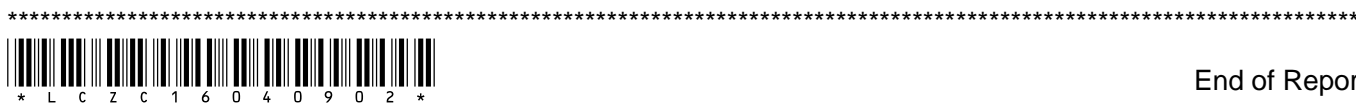
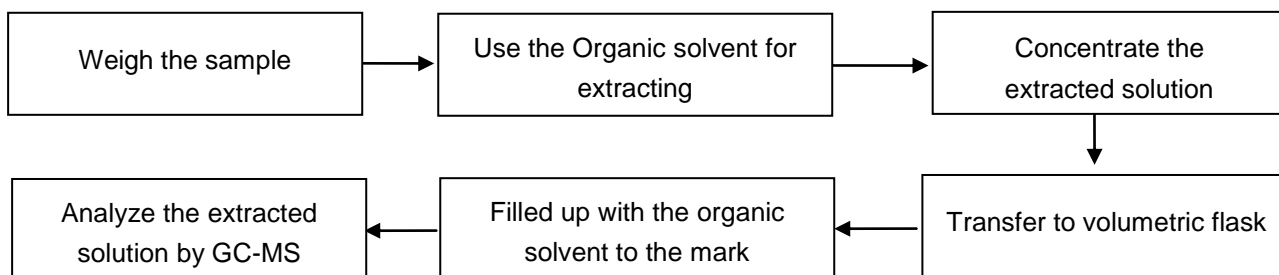
#### 4.2 To Determine Hexavalent Chromium Content in polymers and electronics



#### 4.3 To Determine Lead(Pb) / Cadmium (Cd) / Mercury (Hg) Content



#### 4.4 To Determine PBBs/PBDEs Content in polymers



End of Report



**Appendix 1:****Reference Model Number**

ST-501XY, ST-502 XY, ST-504 XY, ST-505 XY, ST-506 XY, ST-507 XY,  
ST-508 XY, ST-509 XY, ST-503NXY, ST-503DNXY,  
ST-503PNXY (X=a,b,c,...;Y=1,2,3,...) AC-501N, ST-503, ST-503BF, ST-503BM1, ST-503BM1F, ST-503A,  
ST-503AM, ST-503AMF, ST-503AM1, ST-503AM1F,  
ST-503C, ST-503CM, ST-503CL, ST-503CLM, ST-503D, ST-503DM, ST-503DMF, ST-503DM1,  
ST-503DM1F, ST-503DL, ST-503DLM, ST-503DLMF, ST-503DLM1, ST-503DLM1F, ST-503E, ST-503EM,  
ST-503EL, ST-503ELM, ST-503M, ST-503MA, ST-503P, ST-503PM, ST-503PMF, ST-503PM1,  
ST-503PM1F, ST-503PH, ST-503PHM, ST-503PHMF, ST-503PHM1, ST-503PHM1F, AC-501K, AC-502K,  
AC-503K, AC-504K, AC-505K, AC-506K, AC-507K, AC-508K, AC-509K, AC-510K,  
AC-511K, AC-512K, AC-513K, AC-514K, AC-515K, AC-516K, AC-517K, AC-518K,  
AC-519K, AC-520K.

Remark: According to applicant's declaration, the above information is reference to the model referred to the tested items in this report. LCTECH (ZhongShan) Testing Service Co., Ltd takes no responsibility for any mistake caused by inaccuracy and/or invalid information. The client will take the full responsibility of all risks.