

# Test Report

Report No.: AGC00552180501-001

Date: Jun.06,2018

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Applicant: Shenzhen Huafului Technology Co., Ltd.  
Address: Unit 1401 &1402, 14/F, Jin qi zhi gu mansion (No. 4 building of Chong wen Garden),  
Crossing of the Liu xian street and Tang ling road, Tao yuan street, Nan shan district,  
Shenzhen,P.R. China

## Report on the submitted sample(s) said to be:

Sample Name: Smart Phone  
Sample Model: P20  
Brand: CUBOT  
Manufacturer: Shenzhen Huafului Technology Co., Ltd.  
Address: Unit 1401 &1402, 14/F, Jin qi zhi gu mansion (No. 4 building of Chong wen Garden),  
Crossing of the Liu xian street and Tang ling road, Tao yuan street, Nan shan district,  
Shenzhen,P.R. China

Sample Received Date: May 29, 2018  
Testing Period: May 29, 2018 to Jun.06,2018

**Test Requested:** Please refer to following page(s).

**Test Method:** Please refer to following page(s).

**Test Result:** Please refer to following page(s).

Tested by: Luoxiao

Reviewed by: Leon

Approved by: Lewis

Luoxiao

Suhongliang, Leon

Liulinwen, Lewis

Test Engineer

Test Team Leader

Technical Director



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**Test Requested:**
**Conclusion**

- As specified by client, to determine Lead(Pb), Cadmium(Cd), Mercury(Hg) content accordance with European Directive 2006/66/EC and its amendments 2013/56/EU.
- As specified by client, to determine the Pb, Cd, Hg, Cr<sup>6+</sup>, PBBs, PBDEs content in the submitted sample in accordance with EU RoHS Directive 2011/65/EU(RoHS) and its amendment directives on XRF and Chemical Method.

Pass

Pass

**Test Result(s):**
**1. Test result of Lead(Pb), Cadmium(Cd), Mercury(Hg)**

Unit: %,w/w

Test item(s)	Test Method/ Equipment	MDL	Result(s)	Limit
			79	
<b>Lead (Pb)</b>	Refer to IEC 62321-5:2013 ICP-OES	0.0005	N.D.	—
<b>Cadmium (Cd)</b>		0.0005	N.D.	0.002
<b>Mercury (Hg)</b>	Refer to IEC 62321-4:2013, ICP-OES	0.0001	N.D.	0.0005
<b>Conclusion</b>	/	/	<b>Pass</b>	/

**Note:**

- 0.1%,w/w=1000 mg/kg
- N.D.=Not Detected(less than method detection limit)
- MDL = Method Detection Limit
- “—” =Not regulated
- As specified by client, only test the designated sample.

**Sample Description**

79	Electric core(Battery)
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**2. Test Methods:**

 A: Screening by X-ray Fluorescence Spectrometry (XRF) :With reference to IEC 62321-3-1:2013 Ed 1.0 Screening – Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry

 B: Chemical test:

Test Item	Test Method	Measuring Instrument	MDL
Cadmium (Cd)	IEC 62321-5:2013 Ed 1.0 Section 7	ICP-OES	2 mg/kg
Lead (Pb)	IEC 62321-5:2013 Ed 1.0 Section 7	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321-4:2013 Ed 1.0 Section 7	ICP-OES	2 mg/kg
Non-metal Hexavalent Chromium (Cr <sup>6+</sup> )	IEC 62321-7-2:2017 Ed 1.0	UV-Vis	1 mg/kg
Metal Hexavalent Chromium (Cr <sup>6+</sup> )	IEC 62321-7-1:2015 Ed 1.0	UV-Vis	/
PBBs/PBDEs	IEC 62321-6:2015 Ed 1.0	GC-MS	5 mg/kg

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**Test Results:**
**A、EU RoHS Directive 2011/65/EU and its amendment directives on XRF**

Seq. No.	Tested Part(s)	Results(mg-kg)				
		Cd	Pb	Hg	Cr	Br
1	Touch-screen glass (Display assembly)	BL	BL	BL	BL	BL
2	Touch screen inside glass (Display assembly)	BL	BL	BL	BL	BL
3	White plastic box (Display assembly)	BL	BL	BL	BL	BL
4	Display glass (Display assembly)	BL	BL	BL	BL	BL
5	Chip LED (Display assembly)	BL	BL	BL	BL	BL
6	Conductive adhesive (Display assembly)	BL	BL	BL	BL	BL
7	Black FPC (Display assembly)	BL	BL	BL	BL	BL
8	Lower diffusion (Display assembly)	BL	BL	BL	BL	BL
9	Upper intensify (Display assembly)	BL	BL	BL	BL	BL
10	Light guide plate (Display assembly)	BL	BL	BL	BL	BL
11	Reflector panel (Display assembly)	BL	BL	BL	BL	BL
12	Black plastic frame (Clapboard)	BL	BL	BL	BL	BL
13	Copper nut (Clapboard)	BL	OL*	BL	BL	-
14	Metal clapboard (Clapboard)	BL	BL	BL	BL	-
15	FPC (Clapboard)	BL	BL	BL	BL	BL
16	Black tape (Clapboard)	BL	BL	BL	BL	BL
17	Black screw	BL	BL	BL	BL	-
18	Silver screw	BL	BL	BL	BL	-
19	Black plastic frame (Frame)	BL	BL	BL	BL	X*
20	Camera lens (Frame)	BL	BL	BL	BL	BL
21	Transparent lamp shade (Frame)	BL	BL	BL	BL	BL
22	Metal holder	BL	BL	BL	X*	-
23	black plastic back cover	BL	BL	BL	BL	BL
24	Touch key (Finger Scanner Lite)	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results(mg-kg)				
		Cd	Pb	Hg	Cr	Br
25	FPC (Finger Scanner Lite)	BL	BL	BL	BL	BL
26	Metal sheet (Finger Scanner Lite)	BL	BL	BL	X*	-
27	Metal frame (Back camera)	BL	BL	BL	BL	-
28	Black plastic frame (Back camera)	BL	BL	BL	BL	BL
29	Transparent lens (Back camera)	BL	BL	BL	BL	BL
30	Chip core (Back camera)	BL	BL	BL	BL	BL
31	FPC (Back camera)	BL	BL	BL	BL	BL
32	Black plastic seat (Back camera)	BL	BL	BL	BL	BL
33	Black plastic seat (Front camera)	BL	BL	BL	BL	BL
34	Transparent lens (Front camera)	BL	BL	BL	BL	BL
35	Chip core (Front camera)	BL	BL	BL	BL	BL
36	FPC (Front camera)	BL	BL	BL	BL	BL
37	Chip LED (Front camera)	BL	BL	BL	BL	BL
38	Black FPC (Front camera)	BL	BL	BL	BL	BL
39	Metal contact piece (Speaker)	BL	BL	BL	X*	-
40	Black plastic frame (Speaker)	BL	BL	BL	BL	BL
41	Enameled wire (Speaker)	BL	BL	BL	BL	-
42	Vibrating diaphragm (Speaker)	BL	BL	BL	BL	BL
43	Magnetic shielding cover (Speaker)	BL	BL	BL	BL	-
44	Silver magnet (Speaker)	BL	BL	BL	BL	-
45	Copper terminal (Antenna)	BL	BL	BL	BL	-
46	Black wire jacket (Antenna)	BL	BL	BL	BL	BL
47	Black cotton stick (Motor)	BL	BL	BL	BL	BL
48	Metal shell (Motor)	BL	BL	BL	BL	-
49	Magnet (Motor)	BL	BL	BL	BL	-
50	PCB board (Motor)	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results(mg-kg)				
		Cd	Pb	Hg	Cr	Br
51	Black plastic stents (Motor)	BL	BL	BL	BL	BL
52	Metal block (Motor)	BL	BL	BL	BL	-
53	Red wire jacket (Motor)	BL	BL	BL	BL	BL
54	Blue wire jacket (Motor)	BL	BL	BL	BL	BL
55	Copper contact piece (Connecting board)	BL	BL	BL	X*	-
56	Black plastic seat (Connecting board)	BL	BL	BL	BL	BL
57	Black double-sided adhesive (Connecting board)	BL	BL	BL	BL	BL
58	Micro metal connector (Connecting board)	BL	BL	BL	BL	-
59	Green PCB board (Connecting board)	BL	BL	BL	BL	X*
60	Silver metal frame (Receiver)	BL	BL	BL	BL	-
61	Enameled wire (Receiver)	BL	BL	BL	BL	-
62	Black plastic frame (Receiver)	BL	BL	BL	BL	BL
63	Magnet (Receiver)	BL	BL	BL	BL	-
64	Metal contact piece (Receiver)	BL	BL	BL	X*	-
65	FPC (Receiver)	BL	BL	BL	BL	BL
66	Metal shield cover (Board)	BL	BL	BL	BL	-
67	Black plastic audio holder (Board)	BL	BL	BL	BL	BL
68	Chip IC (Board)	BL	BL	BL	BL	BL
69	Chip inductor (Board)	BL	BL	BL	X*	BL
70	Metal cover (Memory card holder) (Board)	BL	BL	BL	X*	-
71	Black plastic seat (Memory card holder) (Board)	BL	BL	BL	BL	BL
72	Contact pin (Memory card holder) (Board)	BL	BL	BL	BL	-
73	Chip capacitor (Board)	BL	BL	BL	BL	BL
74	Chip resistor (Board)	BL	BL	BL	BL	BL
75	Black PCB board (Board)	BL	BL	BL	BL	BL
76	Tin solder (Board)	BL	BL	BL	BL	-

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Seq. No.	Tested Part(s)	Results(mg-kg)				
		Cd	Pb	Hg	Cr	Br
77	Metal button shrapnel (Button) (Board)	BL	BL	BL	BL	BL
78	Black plastic piece (Button) (Board)	BL	BL	BL	BL	BL
80	PCB board (Battery)	BL	BL	BL	BL	X*
81	Tin solder (Battery)	BL	BL	BL	BL	-
82	Chip IC (Battery)	BL	BL	BL	BL	BL
Adapter						
83	White plastic shell (Outer shell)	BL	BL	BL	BL	BL
84	Metal plug (Outer shell)	BL	BL	BL	BL	-
85	White glue	BL	BL	BL	BL	BL
86	Metal contact piece	BL	BL	BL	BL	-
87	PCB board	BL	BL	BL	BL	X*
88	Glass diode	BL	OL*	BL	BL	BL
89	Tin solder	BL	BL	BL	BL	-
90	Chip IC	BL	BL	BL	BL	BL
91	Chip resistor	BL	BL	BL	BL	BL
92	Chip capacitor	BL	BL	BL	BL	BL
93	Chip diode	BL	BL	BL	BL	BL
94	Chip rectifier bridge	BL	BL	BL	BL	BL
95	Blue tape (Transformer)	BL	BL	BL	BL	BL
96	Yellow tape (Transformer)	BL	BL	BL	BL	BL
97	Three layer insulated wire jacket (Transformer)	BL	BL	BL	BL	BL
98	Enameled wire (Transformer)	BL	BL	BL	BL	-
99	Black framework (Transformer)	BL	BL	BL	BL	BL
100	Magnet frame (Transformer)	BL	BL	BL	BL	BL
101	Green sleeving (Electrolytic capacitor)	BL	BL	BL	BL	BL
102	Brown sleeve (Electrolytic capacitor)	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results(mg-kg)				
		Cd	Pb	Hg	Cr	Br
103	Black rubber plug (Electrolytic capacitor)	BL	BL	BL	BL	BL
104	Pin (Electrolytic capacitor)	BL	BL	BL	BL	-
105	Electrolytic paper (Electrolytic capacitor)	BL	BL	BL	BL	BL
106	Anode foil (Electrolytic capacitor)	BL	BL	BL	BL	-
107	Cathode foil (Electrolytic capacitor)	BL	BL	BL	BL	-
108	Aluminum shell (Electrolytic capacitor)	BL	BL	BL	BL	-
109	USB metal joint (USB joint)	BL	BL	BL	BL	-
110	Black plastic contact (USB joint)	BL	BL	BL	BL	X*
111	Contact pin (USB joint)	BL	BL	BL	BL	-
112	Black sleeving (Color ring resistance)	BL	BL	BL	BL	BL
113	Resistor body (Color ring resistance)	BL	BL	BL	BL	BL
114	Pin (Color ring resistance)	BL	BL	BL	BL	-
115	Ceramic capacitance	BL	BL	BL	BL	BL
116	Inductance body (Color ring inductance)	BL	BL	BL	BL	BL
117	Pin (Color ring inductance)	BL	BL	BL	BL	-
USB line						
118	White handle (USB plug)	BL	BL	BL	BL	BL
119	Tin solder (USB plug)	BL	BL	BL	BL	-
120	White plastic plug (USB plug)	BL	BL	BL	BL	BL
121	Contact pin (USB plug)	BL	BL	BL	BL	-
122	USB metal plug (USB plug)	BL	BL	BL	BL	-
123	Black plastic plug (Micro plug)	BL	BL	BL	BL	BL
124	Metal thimble (Micro plug)	BL	BL	BL	BL	-
125	Contact pin (Micro plug)	BL	BL	BL	BL	-
126	Micro metal plug (Micro plug)	BL	BL	BL	BL	-
127	White outer wire jacket (Wire)	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
128	White wire jacket (Wire)	BL	BL	BL	BL	BL
129	Wire core (Wire)	BL	BL	BL	BL	-

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ<X <130+3σ≤OL	BL≤70-3σ<X <130+3σ≤OL	BL≤50-3σ<X <150+3σ≤OL
Pb	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Hg	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Cr	mg/kg	BL≤700-3σ<X	BL≤700-3σ<X	BL≤500-3σ<X
Br	mg/kg	BL≤300-3σ<X	-	BL≤250-3σ<X

Note: BL= Below Limit

OL= Over limited

X= Inconclusive

“-“= Not regulated

\*= Scanning by XRF and detected by chemical method. The test results of chemical method please refer to next pages.

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**Remark:**

- i Results were obtained by XRF for primary scanning, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the above warning value according to IEC 62321-3-1:2013 Ed 1.0.
- ii The XRF scanning test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
- iii The maximum permissible limit is quoted from RoHS directive 2011/65/EU:

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	100
Lead (Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr(VI))	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominated diphenylethers (PBDEs)	1000

**Disclaimers:**

This XRF Scanning report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF scanning report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

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**B. The Test Results of Chemical Method:**

## 1) The Test Results of Pb

Test Item(s)	Unit	Result(s)	
		13	88
Lead(Pb)	mg/kg	31200*	15408*

Note: N.D. = Not Detected or less than MDL

MDL = Method Detection Limit

\* 1= As claimed by the material declaration submitted by the client, the materials of the sample No.13 is copper alloy, according to the RoHS 2011/65 / EU, Lead is exempted as an alloying element in Copper containing up to 4% (40000ppm) by weight.

2= As claimed by the material declaration submitted by the client, the materials of the sample No.88 is glass, according to the ROHS 2011/65 / EU, lead in glass of electronic components is exempted.

 2) The Test Results of non-metal Cr<sup>6+</sup>

Test Item(s)	Unit	Result(s)	Limit
		69	
Hexavalent Chromium(Cr <sup>6+</sup> )	mg/kg	N.D.	1000

Note: N.D. = Not Detected or less than MDL

MDL = Method Detection Limit

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**3)The Test Results of metal Cr<sup>6+</sup>**

Test Item(s)	MDL	Result(s)						Limit
		22	26	39	55	64	70	
Hexavalent Chromium (Cr <sup>6+</sup> )	See note	Negative	Negative	Negative	Negative	Negative	Negative	#

Note:

- Negative = Absence of Cr(VI) on the tested areas
- MDL = Method Detection Limit
- Boiling-water-extraction:

Number	Colorimetric result (Cr(VI) concentration)	Qualitative result
1	The sample solution is < the 0,10 µg/cm <sup>2</sup> equivalent comparison standard solution	The sample is negative for Cr(VI) – The Cr(VI) concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating.
2	The sample solution is ≥ the 0,10 µg/cm <sup>2</sup> and ≤ the 0,13 µg/cm <sup>2</sup> equivalent comparison standard solutions	The result is considered to be inconclusive – Unavoidable coating variations may influence the determination.
3	The sample solution is > the 0,13 µg/cm <sup>2</sup> equivalent comparison standard solution	The sample is positive for Cr(VI) – The Cr(VI) concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).

- # = Negative indicates the absence of Cr(VI) on the tested areas concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating.
- Uncertainty indicates the absence of Cr(VI) on the tested areas unavoidable coating variations may influence the determination.
- Positive indicates the presence of Cr(VI) on the tested areas concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).
- Storage conditions and production date of the tested sample are unavailable and thus result of Cr(VI) represent status of the sample at the time of testing.

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## 4) The Test Results of PBBs &amp; PBDEs

Unit: mg/kg

Item(s)	MDL	Result(s)					Limit
		19	59	80	87	110	
<b>Polybrominated Biphenyls (PBBs)</b>							
Monobromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	Total PBBs Content <1000
Dibromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Total content	/	N.D.	N.D.	N.D.	N.D.	N.D.	
<b>Polybrominated Diphenylethers (PBDEs)</b>							
Monobromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	Total PBDEs Content <1000
Dibromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Total content	/	N.D.	N.D.	N.D.	N.D.	N.D.	
<b>Conclusion</b>	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Note: N.D. = Not Detected or less than MDL  
 MDL = Method Detection Limit

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# Test Report

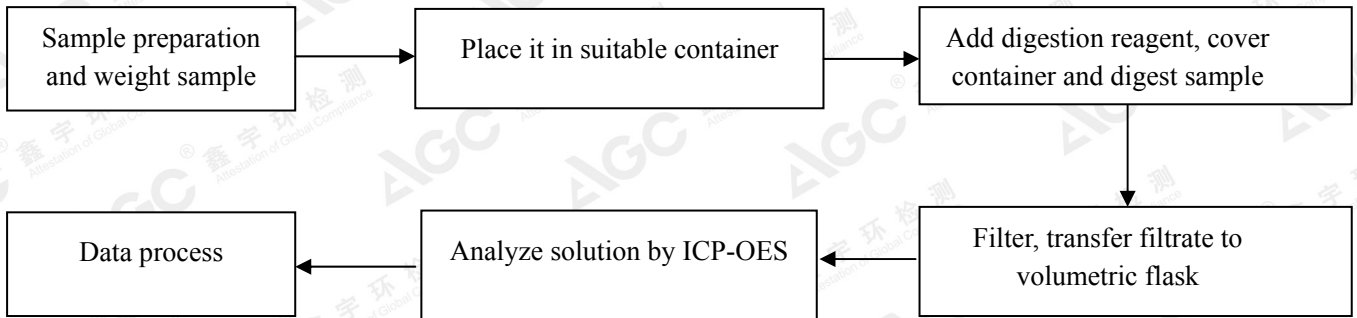
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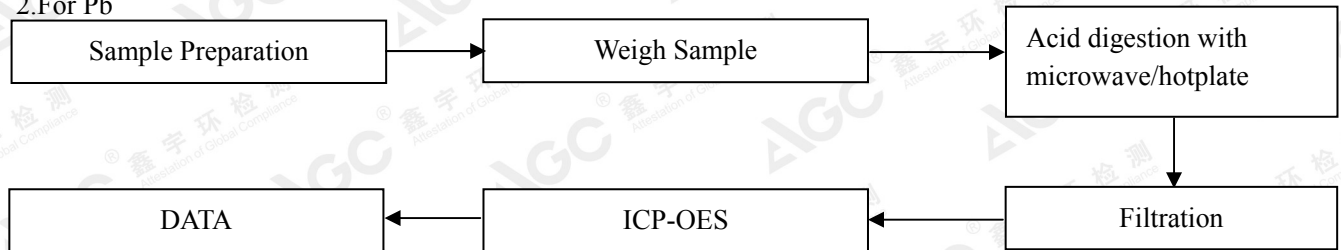
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## Test Flow Chart

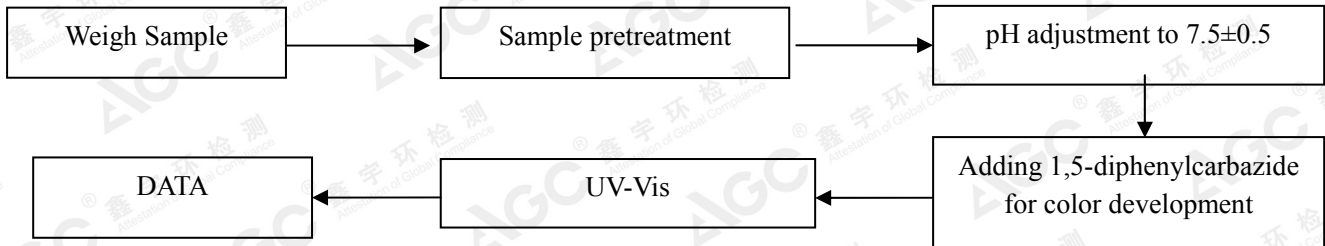
1. For Lead(Pb), Cadmium(Cd), Mercury(Hg)



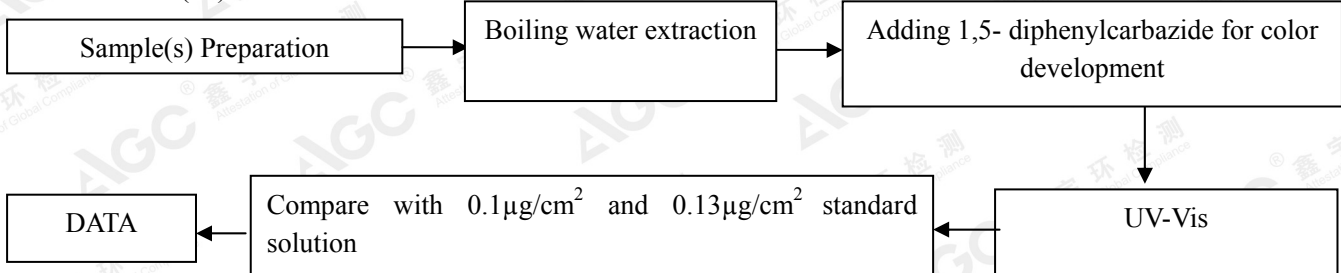
2. For Pb



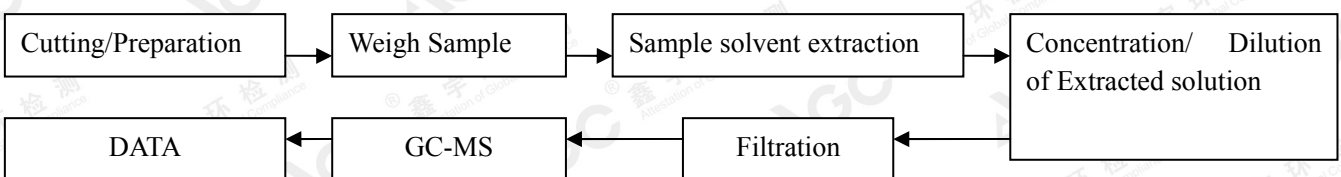
3. For non-metal Cr(VI)



4. For metal Cr(VI)



5. For PBBs & PBDEs



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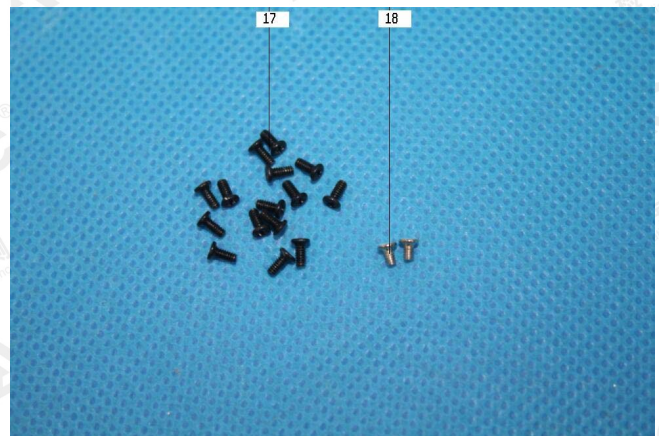
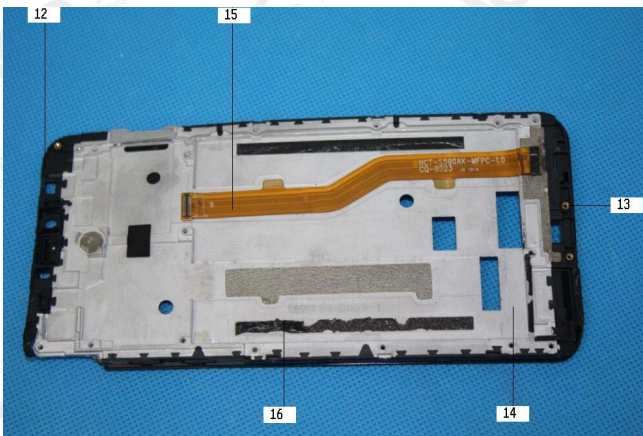
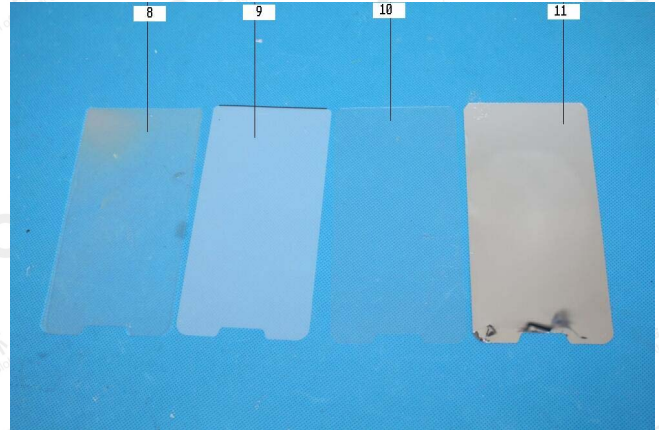
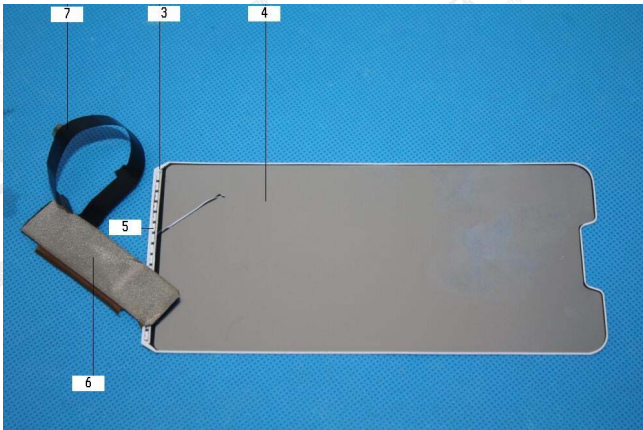
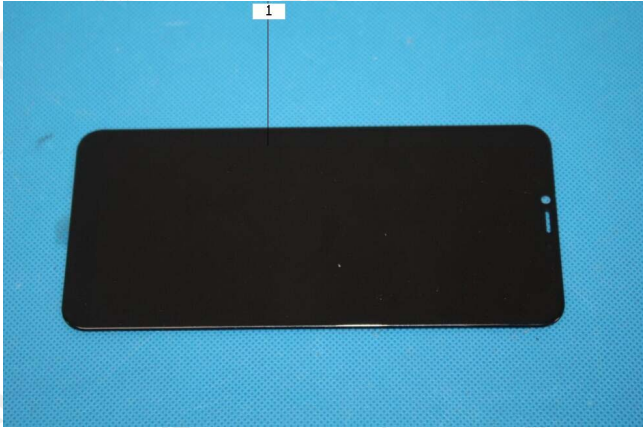
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## The photo of the sample



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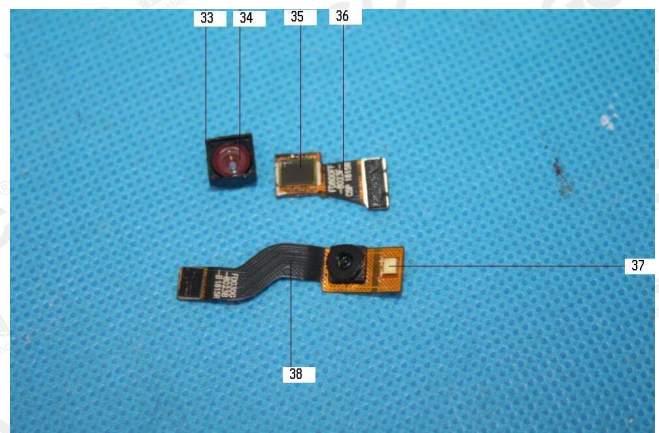
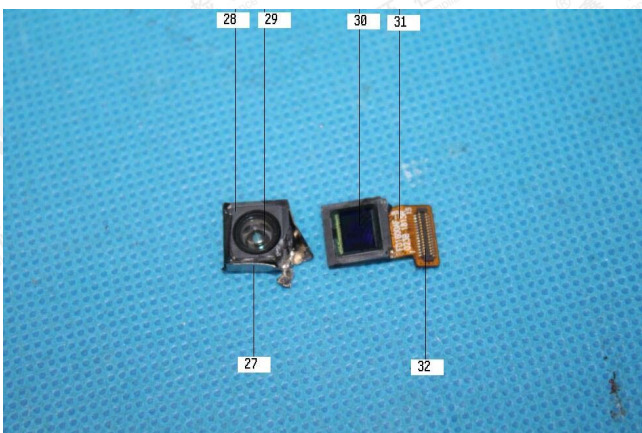
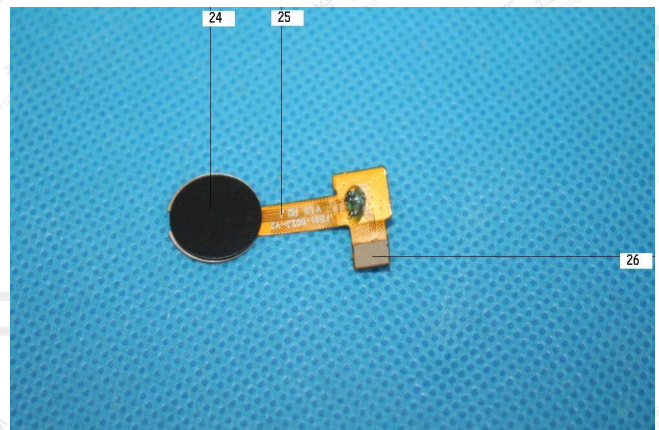
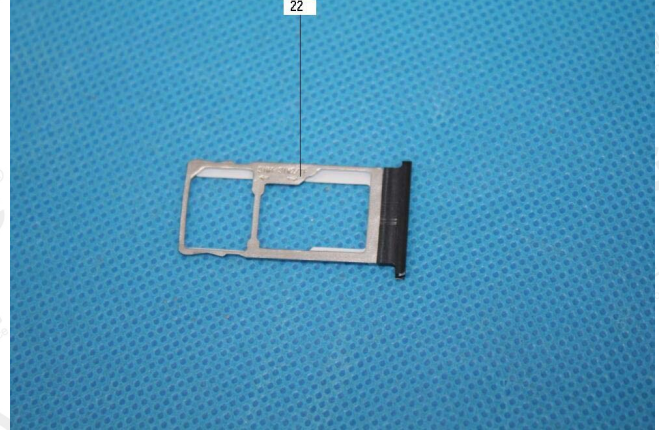


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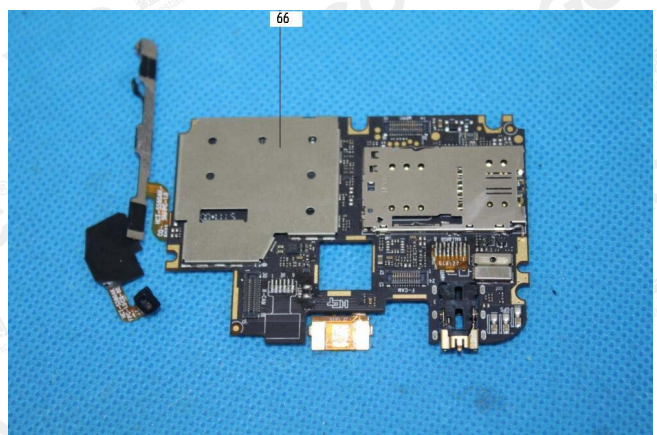
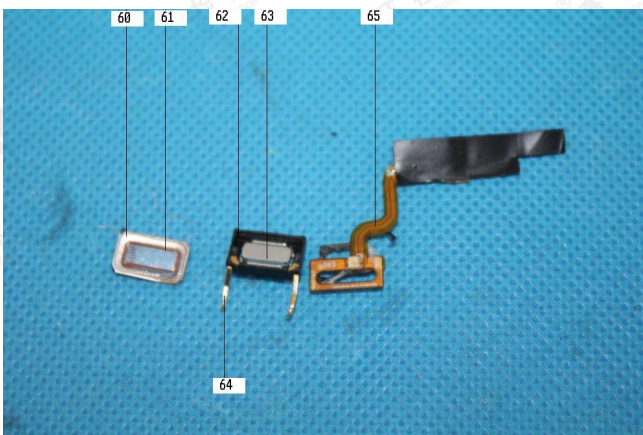
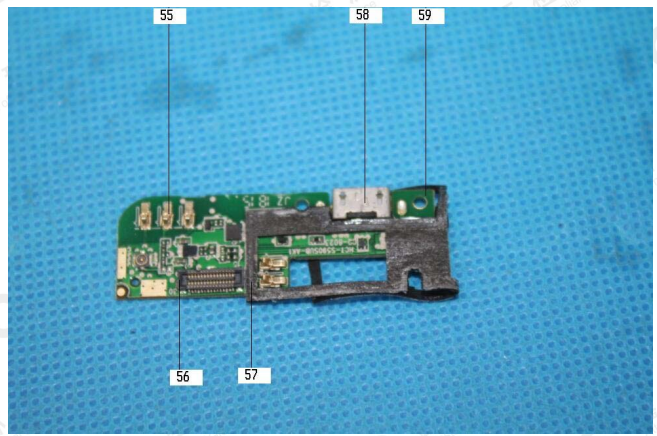
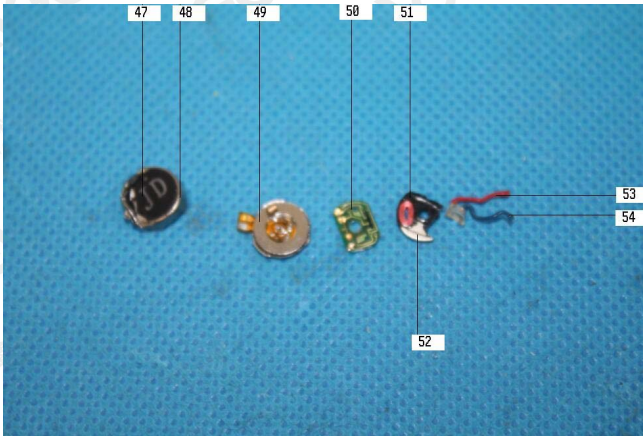
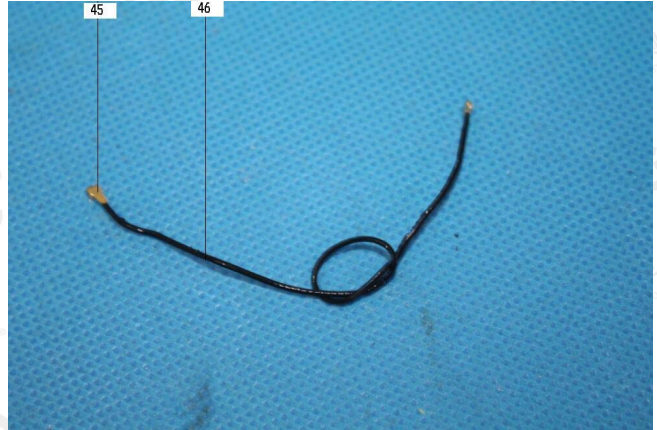
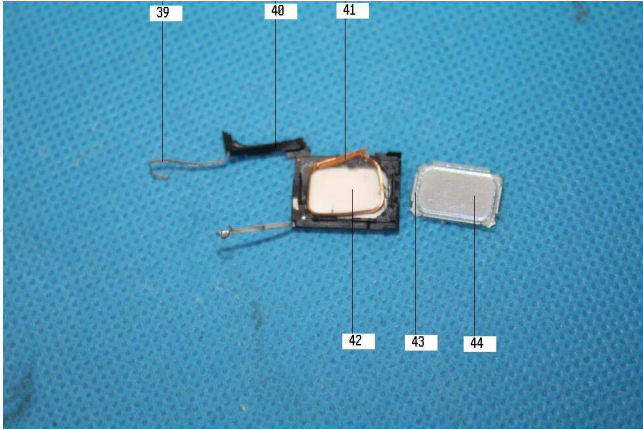


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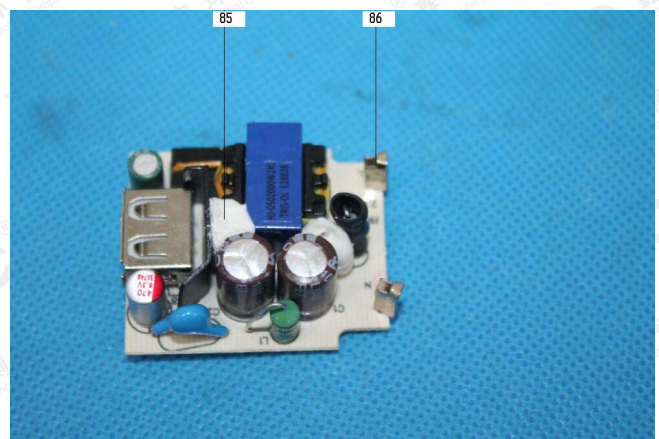
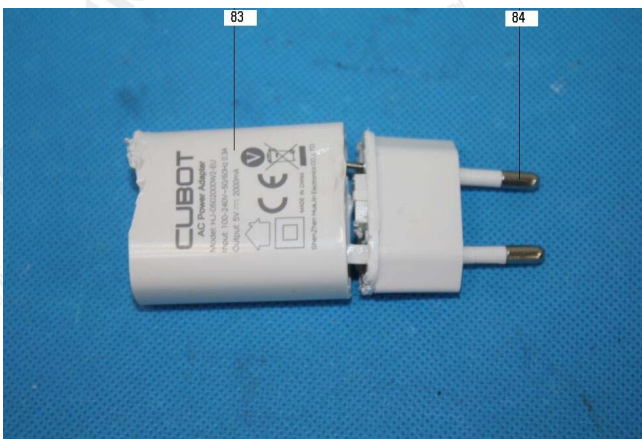
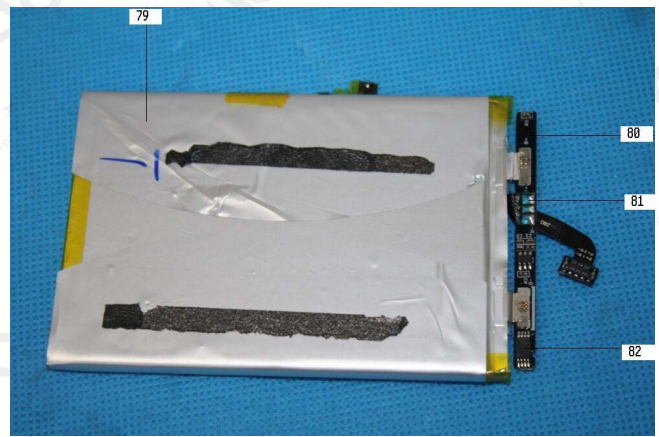
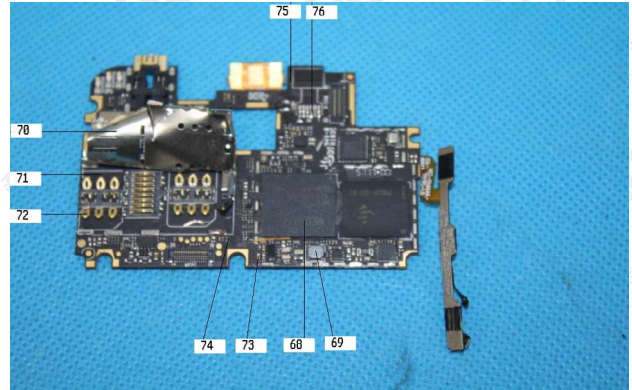
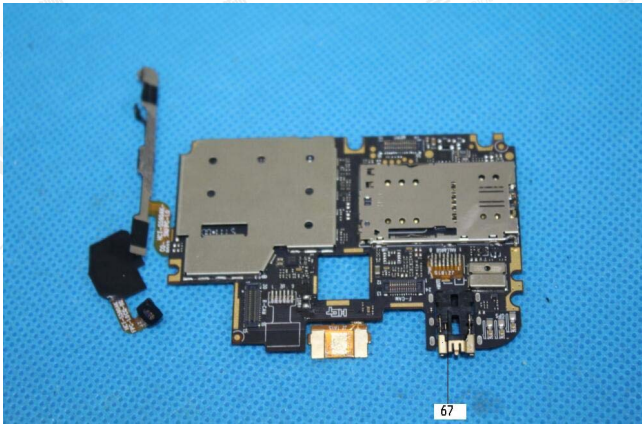


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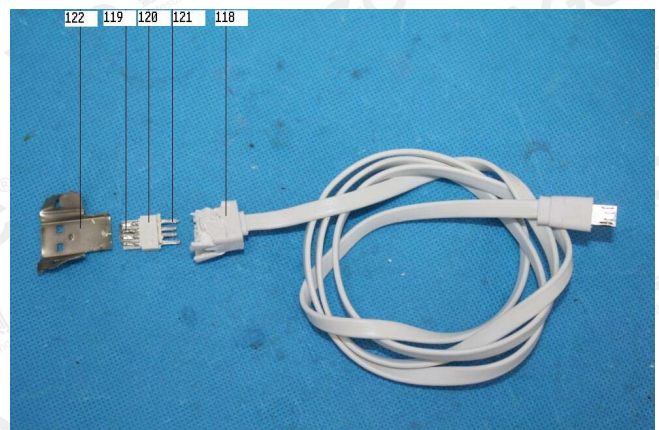
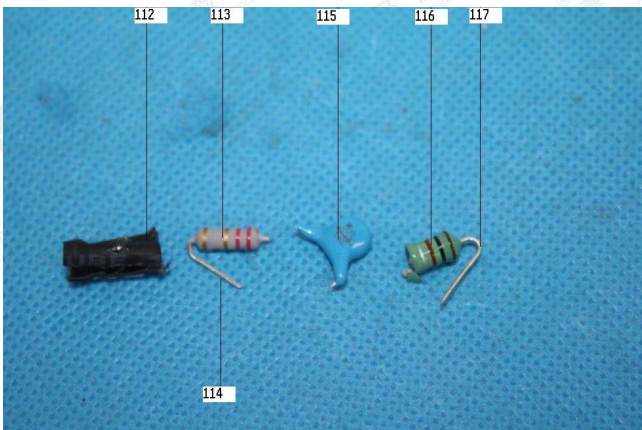
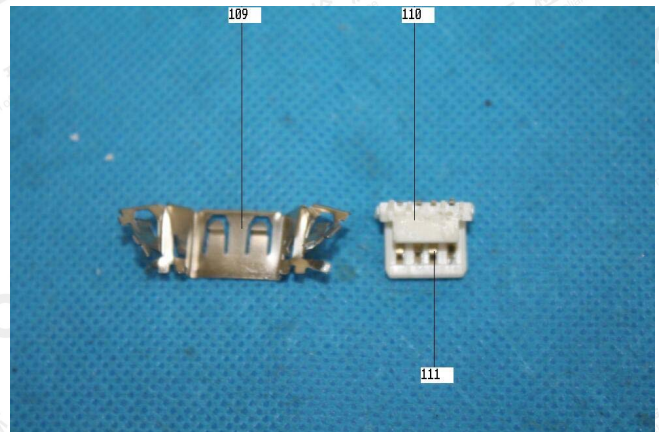
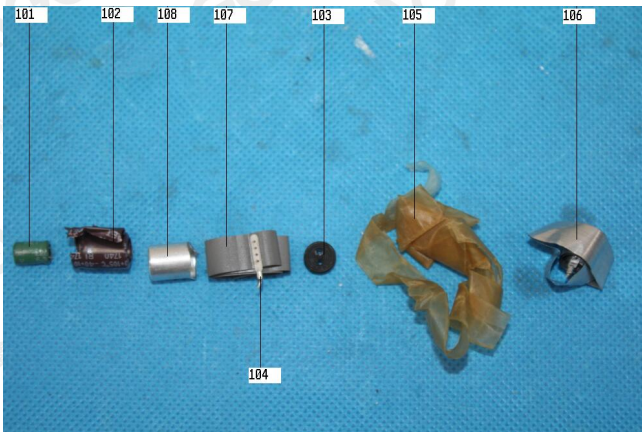
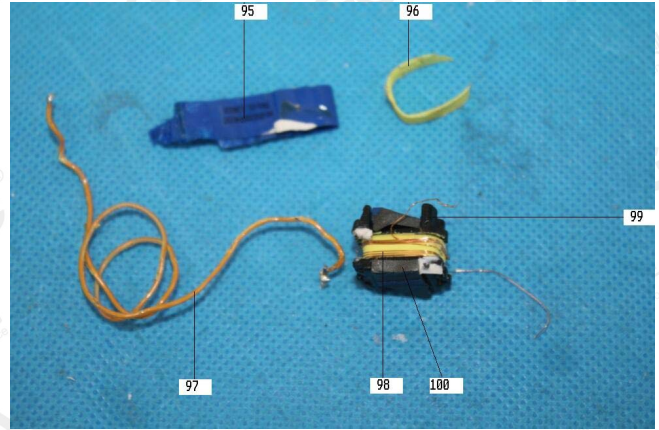
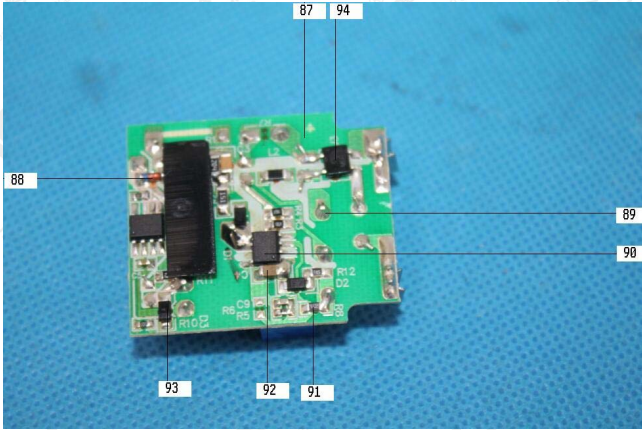


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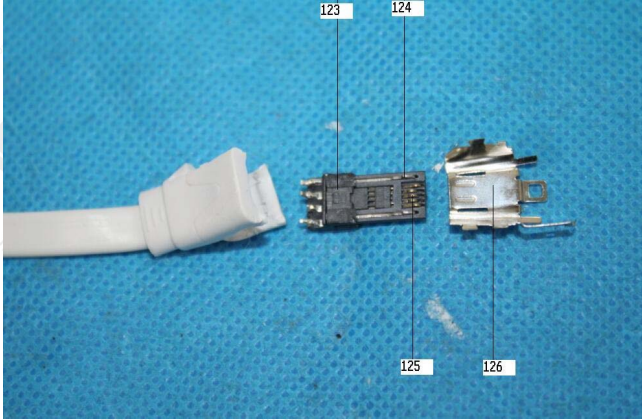


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AGC authenticate the photo only on original report

\*\*\* End of Report \*\*\*

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