

Test Report

Report No.: AGC00552180804-001

Date: Sep.06, 2018

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Applicant: Shenzhen Huafurui 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: KINGKONG 3
Brand: CUBOT
Manufacturer: Shenzhen Huafurui 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: Aug.29, 2018
Testing Period: Aug.29, 2018 to Sep.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).

Approved by: 
Liulinwen, Lewis
Technical Director



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Test Requested:

1. 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.
2. As specified by client, to determine the Pb, Cd, Hg, Cr⁶⁺, 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.

Conclusion

Pass

Pass

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	ICP-OES	2 mg/kg
Lead (Pb)	IEC 62321-5:2013 Ed 1.0	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321-4:2017 Ed 1.1	ICP-OES	2 mg/kg
Non-metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-2:2017 Ed 1.0	UV-Vis	1 mg/kg
Metal Hexavalent Chromium (Cr ⁶⁺)	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 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
			80	
Lead (Pb)	Refer to IEC 62321-5:2013 ICP-OES	0.0005	N.D.	—
Cadmium (Cd)		0.0005	N.D.	0.002
Mercury (Hg)	Refer to IEC 62321-4:2017, ICP-OES	0.0001	N.D.	0.0005
Conclusion	/	/	Pass	/

Note:

- 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

80	Electric core (battery)
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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	White plastic box(Display assembly)	BL	BL	BL	BL	BL
3	Silver metal plate(Display assembly)	BL	BL	BL	X*	-
4	Lower diffusion(Display assembly)	BL	BL	BL	BL	BL
5	Light guide plate(Display assembly)	BL	BL	BL	BL	BL
6	Under intensify(Display assembly)	BL	BL	BL	BL	BL
7	Chip LED(Display assembly)	BL	BL	BL	BL	BL
8	FPC(Display assembly)	BL	BL	BL	BL	BL
9	Display glass(Display assembly)	BL	BL	BL	BL	BL
10	Upper intensify(Display assembly)	BL	BL	BL	BL	BL
11	Upper diffusion(Display assembly)	BL	BL	BL	BL	BL
12	Orange plastic frame(Partition)	BL	BL	BL	BL	BL
13	Silver metal clapboard(Partition)	BL	BL	BL	BL	-
14	Grey double sided adhesive(Partition)	BL	BL	BL	BL	BL
15	Copper nut(Partition)	BL	OL*	BL	BL	-
16	Black rubber shell(Phone back cover)	BL	BL	BL	BL	BL
17	Black LOGO(Phone back cover)	BL	BL	BL	BL	BL
18	Touch key(Phone back cover)	BL	OL*	BL	BL	BL
19	Camera lens(Phone back cover)	BL	BL	BL	BL	BL
20	Transparent lamp shade(Phone back cover)	BL	BL	BL	BL	BL
21	Black sticker(Phone back cover)	BL	BL	BL	BL	BL
22	FPC(Phone back cover)	BL	BL	BL	BL	BL
23	Black seal frame(Phone back cover)	BL	BL	BL	BL	BL
24	Metal side cover	BL	BL	BL	X*	-

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Seq. No.	Tested Part(s)	Results(mg-kg)				
		Cd	Pb	Hg	Cr	Br
25	Black plastic cover	BL	BL	BL	BL	X*
26	Metal holder	BL	BL	BL	X*	-
27	Black plastic seat(Front camera)	BL	BL	BL	BL	BL
28	Transparent lens(Front camera)	BL	BL	BL	BL	BL
29	Chip core(Front camera)	BL	BL	BL	BL	BL
30	FPC(Front camera)	BL	BL	BL	BL	BL
31	Silver metal frame(Rear camera)	BL	BL	BL	BL	-
32	Black plastic lens holder (Rear camera)	BL	BL	BL	BL	BL
33	Transparent lens(Rear camera)	BL	BL	BL	BL	BL
34	Chip core(Rear camera)	BL	BL	BL	BL	BL
35	FPC(Rear camera)	BL	BL	BL	BL	BL
36	Silver magnet(Speaker)	BL	BL	BL	X*	-
37	Magnetic shielding cover(Speaker)	BL	BL	BL	BL	-
38	Black plastic frame(Speaker)	BL	BL	BL	BL	BL
39	Enameled wire frame(Speaker)	BL	BL	BL	BL	-
40	Vibrating diaphragm(Speaker)	BL	BL	BL	BL	BL
41	Silver metal contact (Speaker)	BL	BL	BL	X*	-
42	Silver screw(Receiver)	BL	BL	BL	X*	-
43	Black plastic frame(Receiver)	BL	BL	BL	BL	BL
44	Silver metal cover(Receiver)	BL	BL	BL	BL	-
45	Magnetic shielding cover(Receiver)	BL	BL	BL	BL	-
46	Silver magnet(Receiver)	BL	BL	BL	X*	-
47	Enameled wire(Receiver)	BL	BL	BL	BL	-
48	Metal contact piece(Receiver)	BL	BL	BL	X*	-
49	Blue wire jacket(Motor)	BL	BL	BL	BL	BL
50	Red wire jacket(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 cotton stick(Motor)	BL	BL	BL	BL	BL
52	Silver metal shell(Motor)	BL	BL	BL	BL	-
53	Green PCB board(Motor)	BL	BL	BL	BL	BL
54	Silver magnet(Motor)	BL	BL	BL	X*	-
55	Black plastic socket(FPC joint)	BL	BL	BL	BL	BL
56	FPC(FPC joint)	BL	BL	BL	BL	BL
57	Metal joint(FPC joint)	BL	BL	BL	X*	-
58	Copper terminal(Connecting plate)	BL	BL	BL	X*	-
59	Blue PCB board(Connecting plate)	BL	BL	BL	BL	X*
60	Tin solder(Connecting plate)	BL	BL	BL	BL	-
61	Chip microphone(Connecting plate)	BL	BL	BL	BL	BL
62	Metal magnetic shield (Main board)	BL	BL	BL	X*	-
63	Blue PCB board(Main board)	BL	BL	BL	BL	X*
64	Chip crystal oscillator(Main board)	BL	BL	BL	BL	BL
65	Blue silica sheet(Main board)	BL	BL	BL	BL	BL
66	Chip resistor(Main board)	BL	BL	BL	BL	BL
67	Chip inductor(Main board)	BL	BL	BL	BL	BL
68	Black plastic slot(Main board)	BL	BL	BL	BL	BL
69	Silver metal holder(Main board)	BL	BL	BL	BL	-
70	Patch actinic lamp(Main board)	BL	BL	BL	BL	BL
71	Tin solder(Main board)	BL	BL	BL	BL	-
72	Chip IC(Main board)	BL	BL	BL	BL	BL
73	Chip capacitor(Main board)	BL	BL	BL	BL	BL
74	Chip white crystal oscillator (Main board)	BL	BL	BL	BL	BL
75	Metal antenna pedestal(Main board)	BL	BL	BL	BL	-
76	Copper terminal(Terminal connecting line)	OL*	BL	BL	BL	-

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Seq. No.	Tested Part(s)	Results(mg-kg)				
		Cd	Pb	Hg	Cr	Br
77	Black wire jacket(Terminal connecting line)	BL	BL	BL	BL	BL
78	Brown tape(Battery)	BL	BL	BL	BL	BL
79	Wrinkle paper(Battery)	BL	BL	BL	BL	BL
81	Tin solder(Battery)	BL	BL	BL	BL	-
82	FPC(Battery)	BL	BL	BL	BL	BL
83	Black PCB board(Battery)	BL	BL	BL	BL	X*
84	IC body(Battery)	BL	BL	BL	BL	BL
85	Pin (Battery)	BL	BL	BL	BL	-
Adapter						
86	Metal plug(Shell)	BL	BL	BL	BL	-
87	White plastic plug(Shell)	BL	BL	BL	BL	BL
88	White plastic shell(Shell)	BL	BL	BL	BL	BL
89	Black thermistor	BL	BL	BL	BL	BL
90	Aluminum shell(Electrolytic capacitor)	BL	BL	BL	BL	-
91	Green sleeving(Electrolytic capacitor)	BL	BL	BL	BL	BL
92	Black sleeving(Inductance)	BL	BL	BL	BL	BL
93	Magnet frame(Inductance)	BL	BL	BL	BL	BL
94	Blue capacitance	BL	BL	BL	BL	BL
95	USB metal joint(USB joint)	BL	BL	BL	BL	-
96	White plastic contact(USB joint)	BL	BL	BL	BL	X*
97	Yellow tape(Transformer)	BL	BL	BL	BL	BL
98	Black plastic skeleton(Transformer)	BL	BL	BL	BL	BL
99	Transparent sleeving(Transformer)	BL	BL	BL	BL	BL
100	Three layer insulated wire jacket(Transformer)	BL	BL	BL	BL	BL
101	Silver metal contact	BL	BL	BL	BL	-
102	Chip rectifier bridge	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results(mg-kg)				
		Cd	Pb	Hg	Cr	Br
103	Chip resistor	BL	BL	BL	BL	BL
104	Chip diode	BL	BL	BL	BL	BL
105	Chip capacitor	BL	BL	BL	BL	BL
106	Black plastic clip holder	BL	BL	BL	BL	BL
107	IC body(IC)	BL	BL	BL	BL	BL
108	Pin(IC)	BL	BL	BL	BL	-
109	PCB board	BL	BL	BL	BL	BL
110	Tin solder	BL	BL	BL	BL	-
USB line						
111	White handle(USB plug)	BL	BL	BL	BL	BL
112	Milk white inner glue(USB plug)	BL	BL	BL	BL	BL
113	Tin solder(USB plug)	BL	BL	BL	BL	-
114	White plastic plug(USB plug)	BL	BL	BL	BL	X*
115	Contact pin(USB plug)	OL*	BL	BL	BL	-
116	USB metal plug(USB plug)	BL	BL	BL	BL	-
117	Blue PCB board(TYPE-C plug)	BL	BL	BL	BL	X*
118	Tin solder(TYPE-C plug)	BL	BL	BL	BL	-
119	Black plastic plug(TYPE-C plug)	BL	BL	BL	BL	BL
120	Contact pin(TYPE-C plug)	BL	BL	BL	BL	-
121	White plastic plug(TYPE-C plug)	BL	BL	BL	BL	BL
122	Type-c metal plug(TYPE-C plug)	BL	BL	BL	X*	-
123	White outer wire jacket(Wire rod)	BL	BL	BL	X*	BL
124	Gray wire jacket(Wire rod)	BL	BL	BL	BL	BL
125	Wire core(Wire rod)	BL	BL	BL	BL	-
126	Red wire jacket(Wire rod)	BL	BL	BL	X*	BL
127	White wire jacket(Wire rod)	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
128	Green wire jacket(Wire rod)	BL	BL	BL	BL	BL

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

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 & Cd

Test Item(s)	Unit	Result(s)	
		15	18
Lead(Pb)	mg/kg	32599*	14

Test Item(s)	Unit	Result(s)	
		76	115
Cadmium(Cd)	mg/kg	N.D.	N.D.

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.15 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) The Test Results of non-metal Cr⁶⁺

Test Item(s)	Unit	Result(s)		Limit
		123	126	
Hexavalent Chromium(Cr ⁶⁺)	mg/kg	N.D.	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 Cr⁶⁺

Test Item(s)	MDL	Result(s)						Limit
		3	24	26	36	41	42	
Hexavalent Chromium (Cr ⁶⁺)	See note	Negative	Negative	Negative	Negative	Negative	Negative	#

Test Item(s)	MDL	Result(s)						Limit
		46	48	54	57	58	62	
Hexavalent Chromium (Cr ⁶⁺)	See note	Negative	Negative	Negative	Negative	Negative	Negative	#

Test Item(s)	MDL	Result(s)	Limit
		122	
Hexavalent Chromium (Cr ⁶⁺)	See note	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 ² 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 ² and ≤ the 0,13 µg/cm ² 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 ² 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 & PBDEs

Unit: mg/kg

Item(s)	MDL	Result(s)						Limit
		25	59	63	83	96	114	
Polybrominated Biphenyls (PBBs)								
Monobromobiphenyl	5	N.D.	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.	N.D.	
Tribromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Total content	/	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Polybrominated Diphenylethers (PBDEs)								
Monobromodiphenyl ether	5	N.D.	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.	N.D.	
Tribromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Total content	/	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Conclusion	/	Pass	Pass	Pass	Pass	Pass	Pass	/

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Unit: mg/kg

Item(s)	MDL	Result(s)	Limit
		117	
Polybrominated Biphenyls (PBBs)			
Monobromobiphenyl	5	N.D.	Total PBBs Content <1000
Dibromobiphenyl	5	N.D.	
Tribromobiphenyl	5	N.D.	
Tetrabromobiphenyl	5	N.D.	
Pentabromobiphenyl	5	N.D.	
Hexabromobiphenyl	5	N.D.	
Heptabromobiphenyl	5	N.D.	
Octabromobiphenyl	5	N.D.	
Nonabromodiphenyl	5	N.D.	
Decabromodiphenyl	5	N.D.	
Total content	/	N.D.	
Polybrominated Diphenylethers (PBDEs)			
Monobromodiphenyl ether	5	N.D.	Total PBDEs Content <1000
Dibromodiphenyl ether	5	N.D.	
Tribromodiphenyl ether	5	N.D.	
Tetrabromodiphenyl ether	5	N.D.	
Pentabromodiphenyl ether	5	N.D.	
Hexabromodiphenyl ether	5	N.D.	
Heptabromodiphenyl ether	5	N.D.	
Octabromodiphenyl ether	5	N.D.	
Nonabromodiphenyl ether	5	N.D.	
Decabromodiphenyl ether	5	N.D.	
Total content	/	N.D.	
Conclusion	/	Pass	/

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

MDL = Method Detection Limit

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Test Report

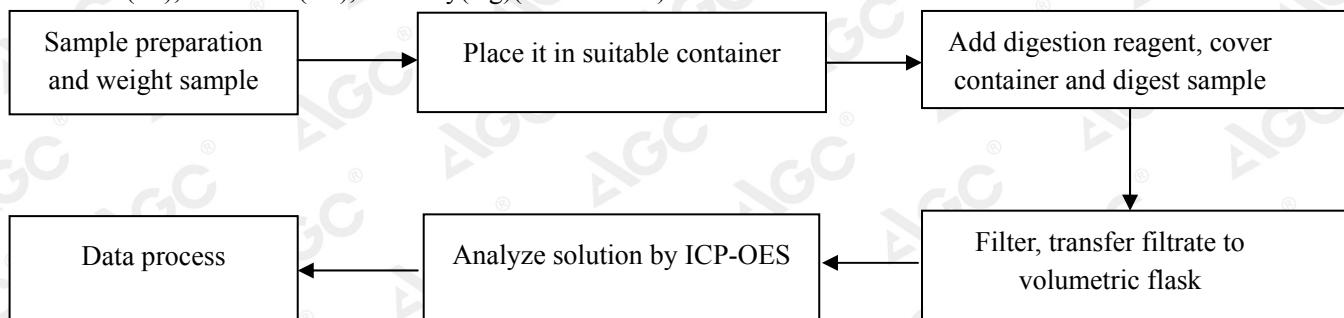
Report No.: AGC00552180804-001

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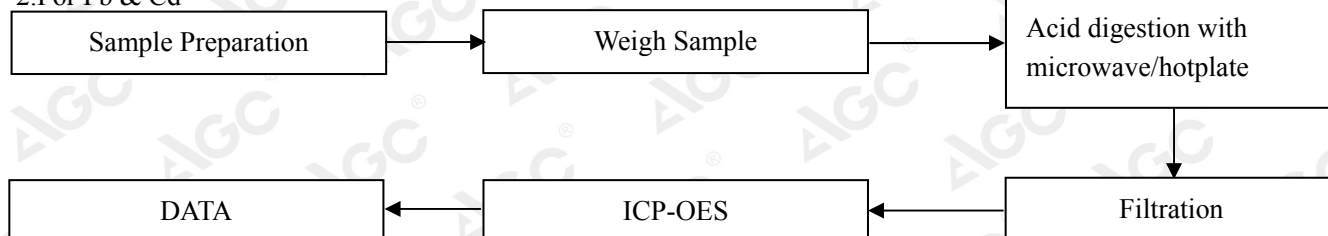
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Test Flow Chart

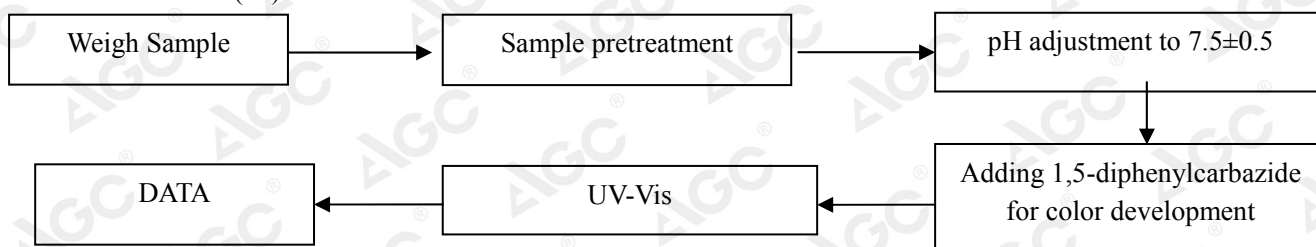
1. For Lead(Pb), Cadmium(Cd), Mercury(Hg)(2006/66/EC)



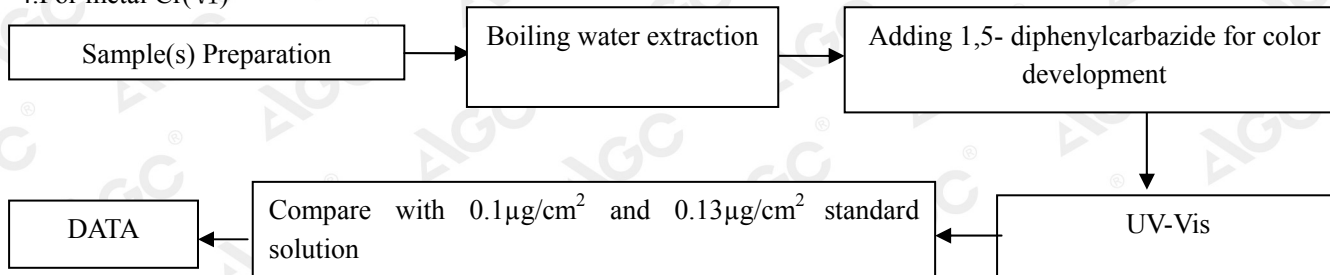
2. For Pb & Cd



3. For non-metal Cr(VI)



4. For metal Cr(VI)



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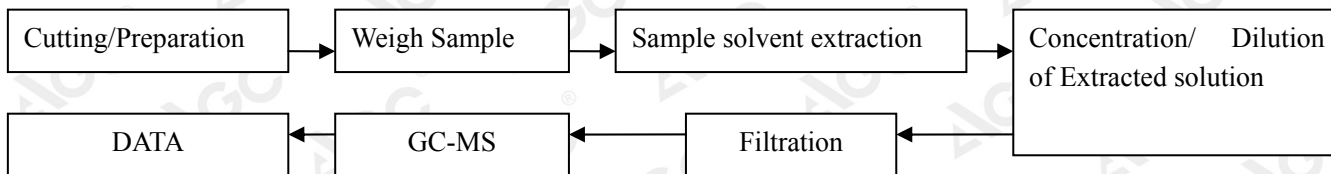
Test Report

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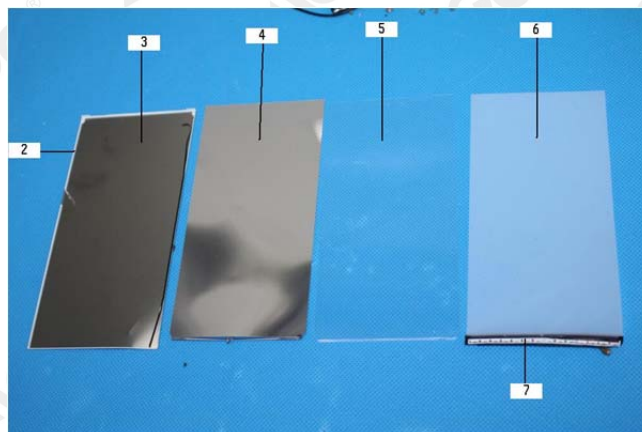
5.For PBBs & PBDEs



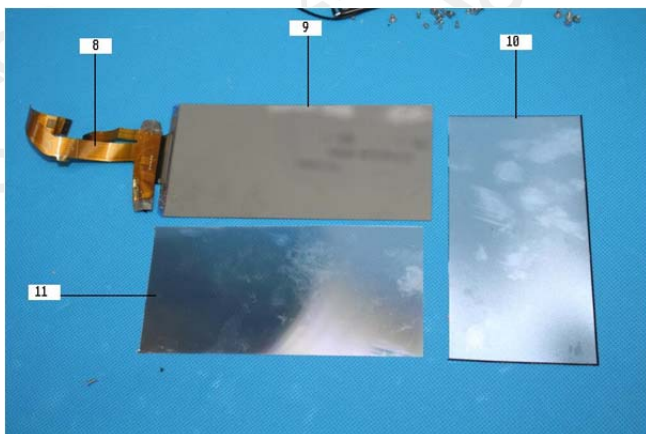
The photo of the sample



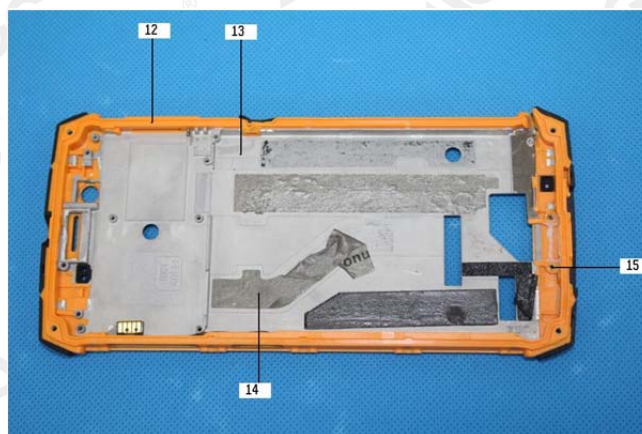
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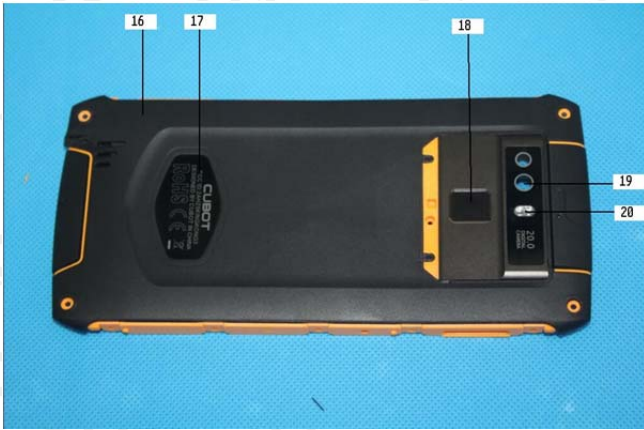


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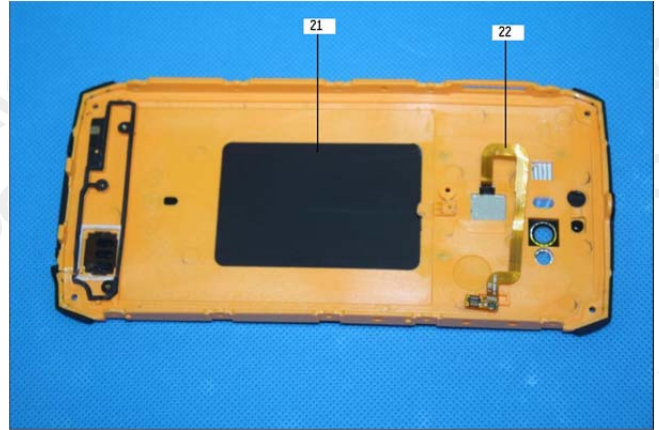
Report No.: AGC00552180804-001

Date: Sep.06, 2018

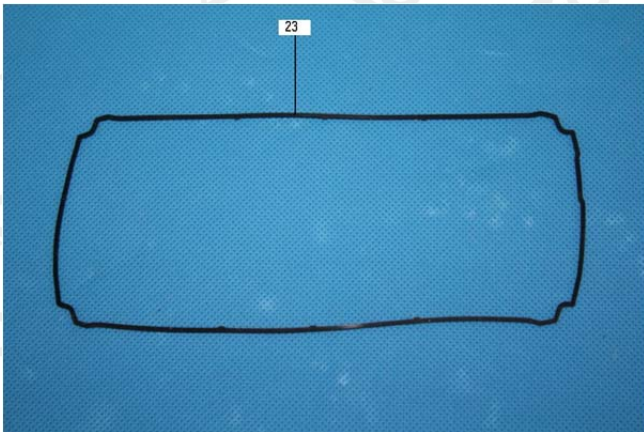
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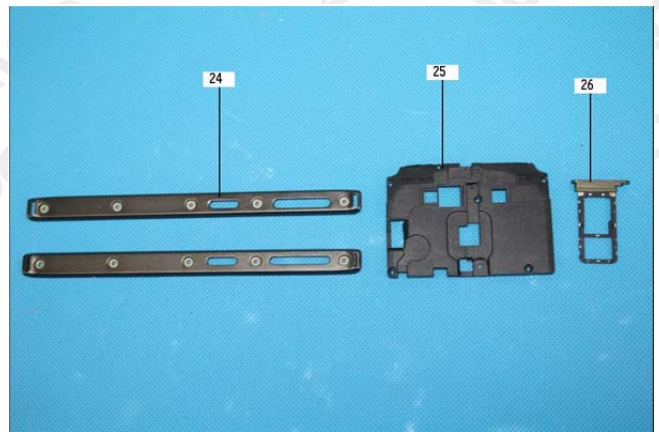
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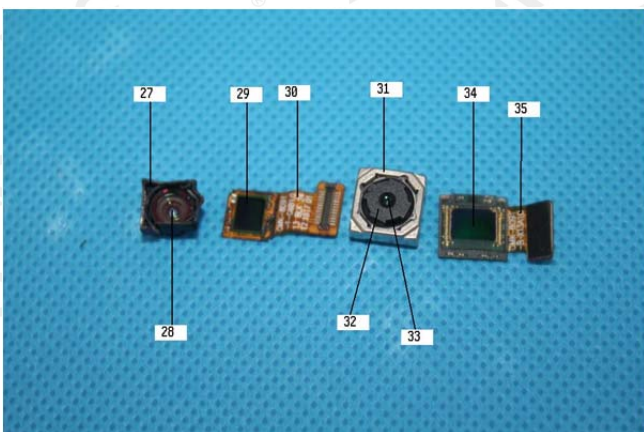
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Test Report

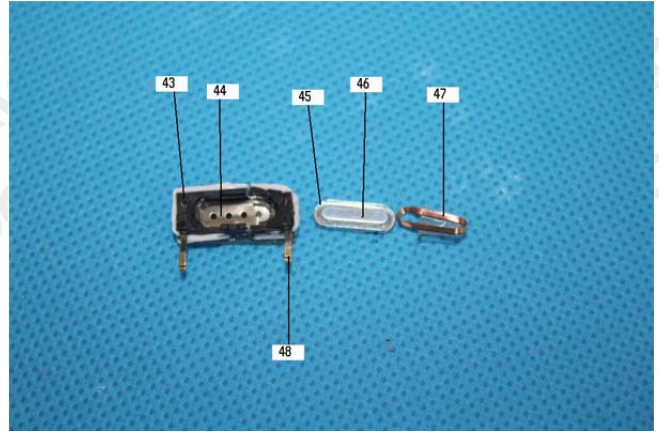
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Date: Sep.06, 2018

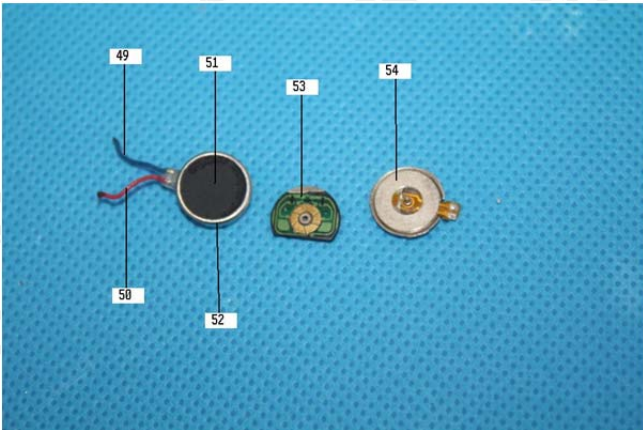
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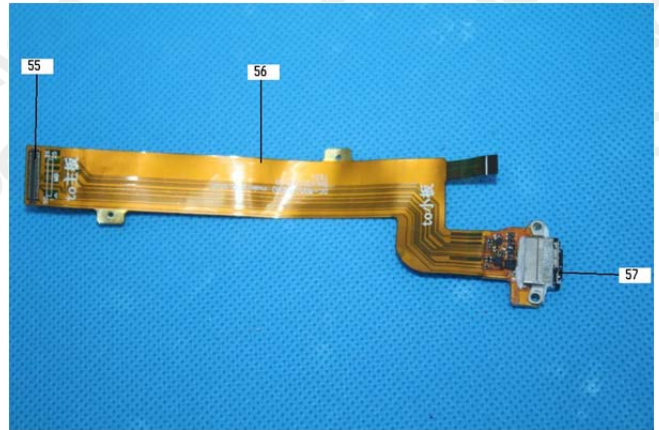
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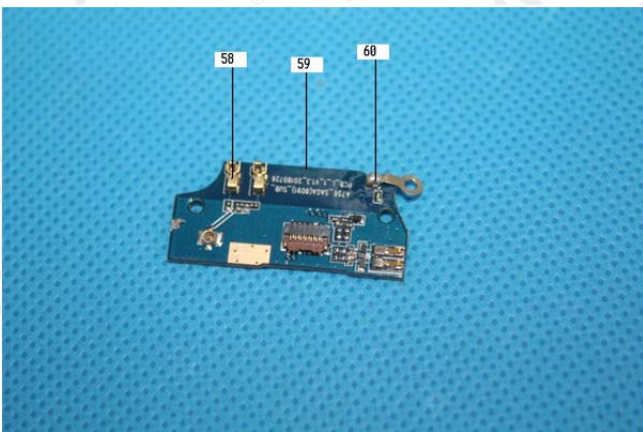
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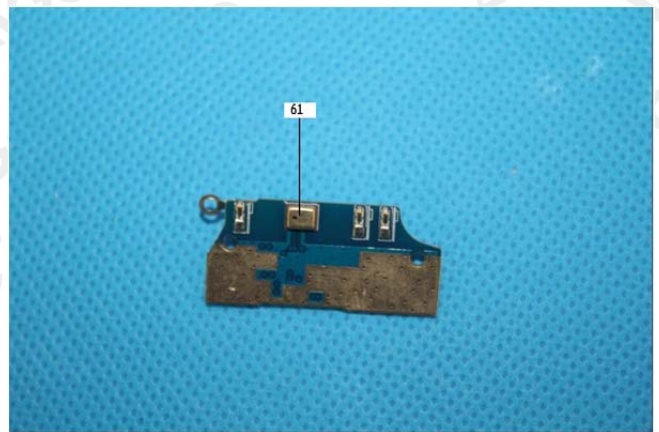
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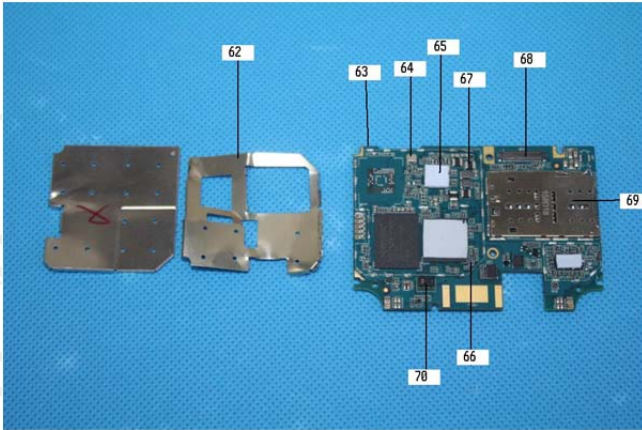


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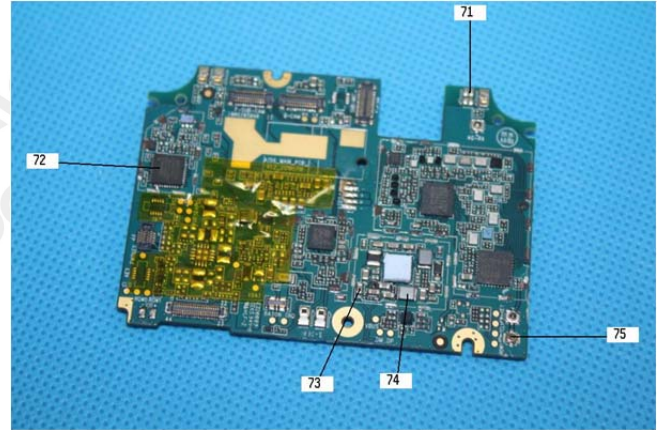
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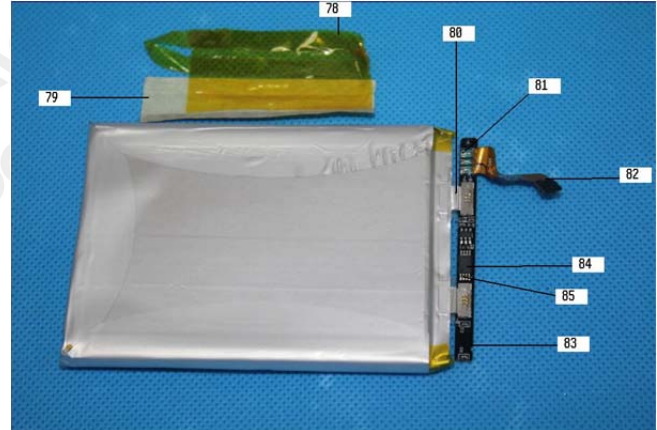
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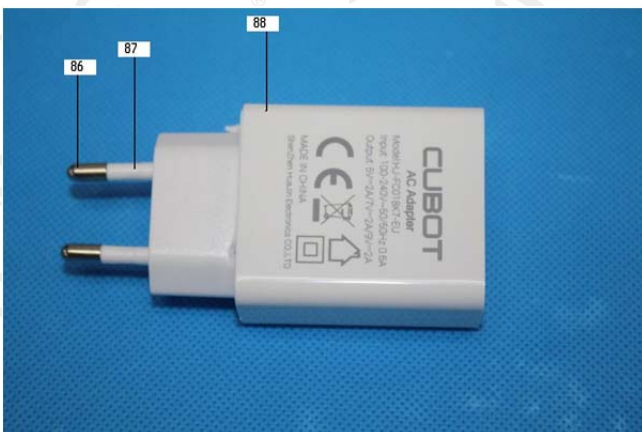
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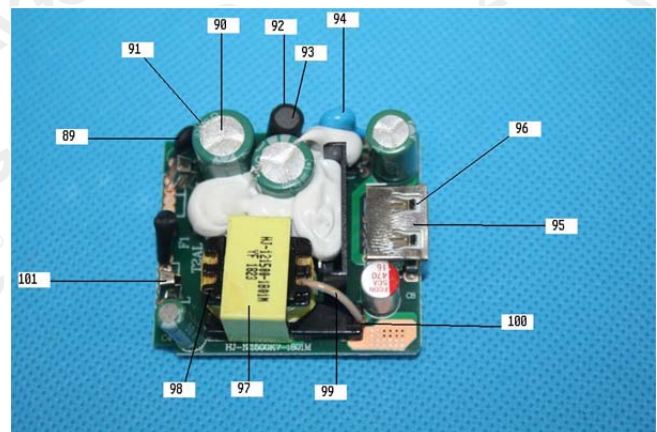
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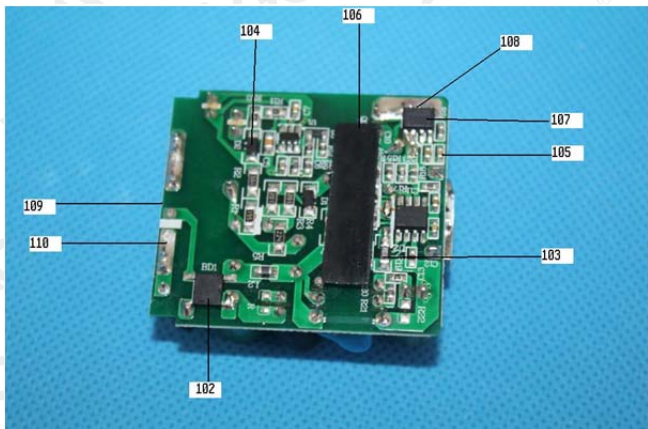


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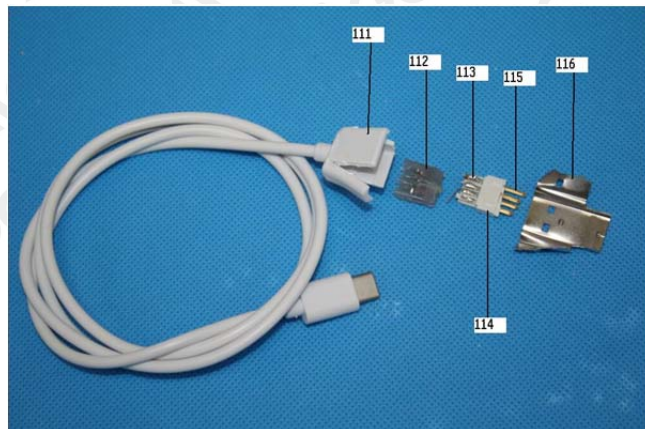
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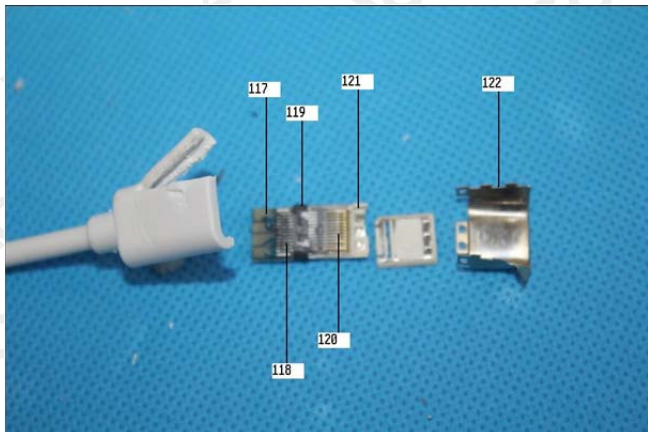
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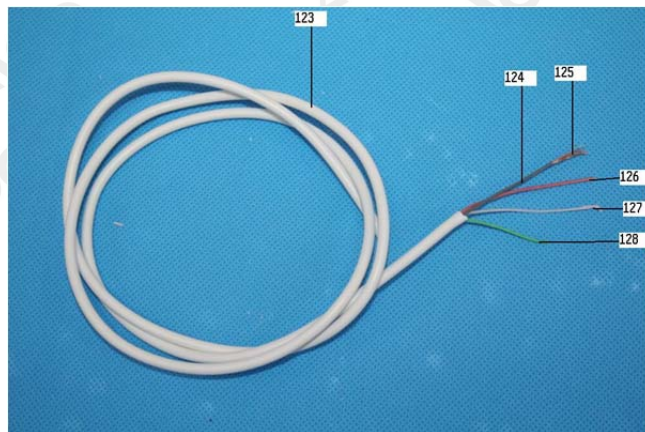
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AGC00552180804-001

AGC authenticate the photo only on original report

*** End of Report ***

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No.18 C