

Test Report

Report No.: AGC00552191002-001

Date: Oct.23, 2019

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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
Test site: 1,6/F.,Building 2,No. 1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan
District, Shenzhen, Guangdong, China

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

Sample Name: Smart Phone
Model No.: X20
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: Oct.14, 2019
Testing Period: Oct.14, 2019 to Oct.23, 2019

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:

As specified by client, to determine the Pb, Cd, Hg, Cr⁶⁺, PBBs, PBDEs, DBP, BBP, DEHP, DIBP content in the submitted sample in accordance with Directive 2011/65/EU (RoHS) and its amendment directive (EU) 2015/863 on XRF and Chemical Method.

Conclusion

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	ICP-OES	2 mg/kg
Lead (Pb)	IEC 62321-5:2013	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321-4: 2013+A1:2017	ICP-OES	2 mg/kg
Non-metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-2:2017	UV-Vis	1 mg/kg
Metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-1:2015	UV-Vis	/
PBBs/PBDEs	IEC 62321-6:2015	GC-MS	5 mg/kg
Di-iso-butyl phthalate (DIBP)	IEC 62321-8:2017	GC-MS	50 mg/kg
Dibutyl phthalate (DBP)		GC-MS	50 mg/kg
Butylbenzyl phthalate (BBP)		GC-MS	50 mg/kg
Di-(2-ethylhexyl) Phthalate (DEHP)		GC-MS	50 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(Display total screen)	BL	BL	BL	BL	BL
2	Lower diffusion(Display total screen)	BL	BL	BL	BL	BL
3	White reflector(Display total screen)	BL	BL	BL	BL	BL
4	Light guide plate(Display total screen)	BL	BL	BL	BL	BL
5	White plastic box(Display total screen)	BL	BL	BL	BL	BL
6	Silver metal plate(Display total screen)	BL	BL	BL	X*	N/A
7	Gold metal frame(shell)	BL	BL	BL	X*	N/A
8	Black plastic shell(shell)	BL	BL	BL	BL	BL
9	Gold plastic back cover(Back cover)	BL	BL	BL	BL	BL
10	Camera lens(Back cover)	BL	BL	BL	BL	BL
11	Silver metal frame(Back cover)	BL	BL	BL	BL	N/A
12	Metal sheet	BL	BL	BL	X*	N/A
13	Silver screw	BL	BL	BL	BL	N/A
14	Metal frame(speaker)	BL	BL	BL	BL	N/A
15	Black plastic shell(speaker)	BL	BL	BL	BL	BL
16	Silver magnet(speaker)	BL	BL	BL	BL	N/A
17	Magnetic shielding cover(speaker)	BL	BL	BL	BL	N/A
18	Black plastic frame(Receiver)	BL	BL	BL	BL	BL
19	Magnetic shielding cover(Receiver)	BL	BL	BL	BL	N/A
20	Silver metal shell(Motor)	BL	BL	BL	BL	N/A
21	Red wire jacket(Motor)	BL	BL	BL	BL	BL
22	Blue wire jacket(Motor)	BL	BL	BL	BL	BL
23	Black plastic shell(Camera)	BL	BL	BL	BL	BL
24	Silver metal shell(Camera)	BL	BL	BL	X*	N/A

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Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
25	Transparent lens(Camera)	BL	BL	BL	BL	BL
26	Black wire jacket(antenna)	BL	BL	BL	BL	BL
27	FPC	BL	BL	BL	BL	BL
28	PCB(Green PCB)	BL	BL	BL	BL	X*
29	Tin solder(Green PCB)	BL	BL	BL	BL	N/A
30	TYPE-C metal connector(Green PCB)	BL	BL	BL	X*	N/A
31	Black plastic contact(Green PCB)	BL	BL	BL	X*	BL
32	Copper stylus(Green PCB)	BL	BL	BL	X*	N/A
33	Chip microphone(Green PCB)	BL	BL	BL	BL	BL
34	Grey plastic terminal block(Green PCB)	BL	BL	BL	BL	BL
35	PCB	BL	BL	BL	BL	X*
36	Tin solder	BL	BL	BL	BL	N/A
37	Chip IC	BL	BL	BL	BL	BL
38	Grey plastic terminal block	BL	BL	BL	X*	BL
39	White plastic terminal block(Terminal block)	BL	BL	BL	BL	BL
40	Grey plastic buckle(Terminal block)	BL	BL	BL	BL	BL
41	Chip capacitor	BL	BL	BL	BL	BL
42	Gray inductance	BL	BL	BL	BL	BL
43	Patch antenna	BL	BL	BL	BL	BL
44	Chip crystal oscillator	BL	BL	BL	BL	BL
45	Metal cover(Memory card holder)	BL	BL	BL	X*	N/A
46	White plastic seat(Memory card holder)	BL	BL	BL	BL	BL
47	Contact pin(Memory card holder)	BL	BL	BL	X*	N/A
48	Black metal cassette(Memory card holder)	BL	BL	BL	X*	N/A
49	Brown tape	BL	BL	BL	BL	BL
50	Shielding case	BL	BL	BL	X*	N/A

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Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
51	Grey tape	BL	BL	BL	BL	BL
52	Brown tape(Battery)	BL	BL	BL	BL	BL
53	PCB(Battery)	BL	BL	BL	BL	X*
54	Tin solder(Battery)	BL	BL	BL	BL	N/A
55	Chip IC(Battery)	BL	BL	BL	BL	BL
56	Silver metal sheet	BL	BL	BL	BL	N/A
Adapter						
57	White plastic shell(shell)	BL	BL	BL	BL	BL
58	Metal plug(shell)	BL	BL	BL	BL	N/A
59	Brown sleeve(Electrolytic capacitor) (PCB)	BL	BL	BL	BL	BL
60	Green sleeving(Electrolytic capacitor) (PCB)	BL	BL	BL	BL	BL
61	Black sleeving(Electrolytic capacitor) (PCB)	BL	BL	BL	BL	BL
62	Black sleeving(Color ring resistance) (PCB)	BL	BL	BL	BL	BL
63	Metal contact piece(PCB)	BL	BL	BL	X*	N/A
64	Black plastic skeleton(Transformer) (PCB)	BL	BL	BL	BL	BL
65	Yellow tape(Transformer) (PCB)	BL	BL	BL	BL	BL
66	Blue ceramic capacitor(PCB)	BL	BL	BL	BL	BL
67	Chromatic ring inductor(PCB)	BL	BL	BL	BL	BL
68	Chip IC(PCB)	BL	BL	BL	BL	BL
69	Chip rectifier bridge(PCB)	BL	BL	BL	BL	BL
70	PCB	BL	BL	BL	BL	X*
71	Tin solder(PCB)	BL	BL	BL	BL	N/A
USB line						
72	White handle(USB plug)	BL	BL	BL	BL	X*
73	White plastic plug(USB plug)	BL	BL	BL	BL	BL
74	USB metal plug(USB plug)	BL	BL	BL	BL	N/A

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Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
75	Tin solder(USB plug)	BL	BL	BL	BL	N/A
76	Tin solder(TYPE-C plug)	BL	BL	BL	BL	N/A
77	Grey plastic plug(TYPE-C plug)	BL	BL	BL	BL	BL
78	Thimble(TYPE-C plug)	BL	BL	BL	X*	N/A
79	White plastic plug(TYPE-C plug)	BL	BL	BL	BL	BL
80	Type-c metal plug(TYPE-C plug)	BL	BL	BL	X*	N/A
81	PCB(TYPE-C plug)	BL	BL	BL	BL	X*
82	White outer wire jacket(Wire rod)	BL	BL	BL	BL	BL
83	Green wire jacket(Wire rod)	BL	BL	BL	BL	BL
84	Black wire jacket(Wire rod)	BL	BL	BL	BL	BL
85	White wire jacket(Wire rod)	BL	BL	BL	BL	BL
86	Red wire jacket(Wire rod)	BL	BL	BL	BL	BL

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

Note: BL= Below Limit
 OL= Over limited
 X= Inconclusive
 "N/A"= Not applicable
 *= 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.
- 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 and its amendment directive (EU) 2015/863:

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
Polybrominateddiphenylethers (PBDEs)	1000
Di-iso-butyl phthalate (DIBP)	1000
Dibutyl phthalate (DBP)	1000
Butylbenzyl phthalate (BBP)	1000
Di-(2-ethylhexyl) Phthalate (DEHP)	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 non-metal Cr⁶⁺

Test Item(s)	Unit	Result(s)		Limit
		31	38	
Hexavalent Chromium(Cr ⁶⁺)	mg/kg	N.D.	N.D.	1000

Note: N.D. = Not Detected or less than MDL
 mg/kg = parts per million
 MDL = Method Detection Limit

2)The Test Results of metal Cr⁶⁺

Test Item(s)	MDL	Result(s)					Limit
		6	7	12	24	30	
Hexavalent Chromium (Cr ⁶⁺)	See note	Negative	Negative	Negative	Negative	Negative	#

Test Item(s)	MDL	Result(s)					Limit
		32	45	47	48	50	
Hexavalent Chromium (Cr ⁶⁺)	See note	Negative	Negative	Negative	Negative	Negative	#

Test Item(s)	MDL	Result(s)			Limit
		63	78	80	
Hexavalent Chromium (Cr ⁶⁺)	See note	Negative	Negative	Negative	#

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

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- 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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3) The Test Results of PBBs & PBDEs

Unit:mg/kg

Item(s)	MDL	Result(s)						Limit
		28	35	53	70	72	81	
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	/

Note: N.D. = Not Detected or less than MDL
 mg/kg = parts per million
 MDL = Method Detection Limit

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2. Test result of DBP, BBP, DEHP, DIBP content

Unit: mg/kg

Seq. No.	Limit Test item	DIBP	DBP	BBP	DEHP	Conclusion
		1000	1000	1000	1000	
1		N.D.	N.D.	N.D.	N.D.	Pass
2		N.D.	N.D.	N.D.	N.D.	Pass
3		N.D.	N.D.	N.D.	N.D.	Pass
4		N.D.	N.D.	N.D.	N.D.	Pass
5		N.D.	N.D.	N.D.	N.D.	Pass
8		N.D.	N.D.	N.D.	N.D.	Pass
9		N.D.	N.D.	N.D.	N.D.	Pass
10		N.D.	N.D.	N.D.	N.D.	Pass
15		N.D.	N.D.	N.D.	N.D.	Pass
18		N.D.	N.D.	N.D.	N.D.	Pass
21		N.D.	N.D.	N.D.	N.D.	Pass
22		N.D.	N.D.	N.D.	N.D.	Pass
23		N.D.	N.D.	N.D.	N.D.	Pass
25		N.D.	N.D.	N.D.	N.D.	Pass
26		N.D.	N.D.	N.D.	N.D.	Pass
27		N.D.	N.D.	N.D.	N.D.	Pass
28		N.D.	N.D.	N.D.	N.D.	Pass
31		N.D.	N.D.	N.D.	N.D.	Pass
33		N.D.	N.D.	N.D.	N.D.	Pass
34		N.D.	N.D.	N.D.	N.D.	Pass
35		N.D.	N.D.	N.D.	N.D.	Pass
37		N.D.	N.D.	N.D.	N.D.	Pass
38		N.D.	N.D.	N.D.	N.D.	Pass
39		N.D.	N.D.	N.D.	N.D.	Pass
40		N.D.	N.D.	N.D.	N.D.	Pass
41		N.D.	N.D.	N.D.	N.D.	Pass

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Seq. No.	Test item Limit	DIBP	DBP	BBP	DEHP	Conclusion
		1000	1000	1000	1000	
42		N.D.	N.D.	N.D.	N.D.	Pass
43		N.D.	N.D.	N.D.	N.D.	Pass
44		N.D.	N.D.	N.D.	N.D.	Pass
46		N.D.	N.D.	N.D.	N.D.	Pass
49		N.D.	N.D.	N.D.	N.D.	Pass
51		N.D.	N.D.	N.D.	N.D.	Pass
52		N.D.	N.D.	N.D.	N.D.	Pass
53		N.D.	N.D.	N.D.	N.D.	Pass
55		N.D.	N.D.	N.D.	N.D.	Pass
57		N.D.	N.D.	N.D.	N.D.	Pass
59		N.D.	N.D.	N.D.	N.D.	Pass
60		N.D.	N.D.	N.D.	N.D.	Pass
61		N.D.	N.D.	N.D.	N.D.	Pass
62		N.D.	N.D.	N.D.	N.D.	Pass
64		N.D.	N.D.	N.D.	N.D.	Pass
65		N.D.	N.D.	N.D.	N.D.	Pass
66		N.D.	N.D.	N.D.	N.D.	Pass
67		N.D.	N.D.	N.D.	N.D.	Pass
68		N.D.	N.D.	N.D.	N.D.	Pass
69		N.D.	N.D.	N.D.	N.D.	Pass
70		N.D.	N.D.	N.D.	N.D.	Pass
72		N.D.	N.D.	N.D.	N.D.	Pass
73		N.D.	N.D.	N.D.	N.D.	Pass
77		N.D.	N.D.	N.D.	N.D.	Pass
79		N.D.	N.D.	N.D.	N.D.	Pass
81		N.D.	N.D.	N.D.	N.D.	Pass
82		N.D.	N.D.	N.D.	N.D.	Pass
83		N.D.	N.D.	N.D.	N.D.	Pass

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Test Report

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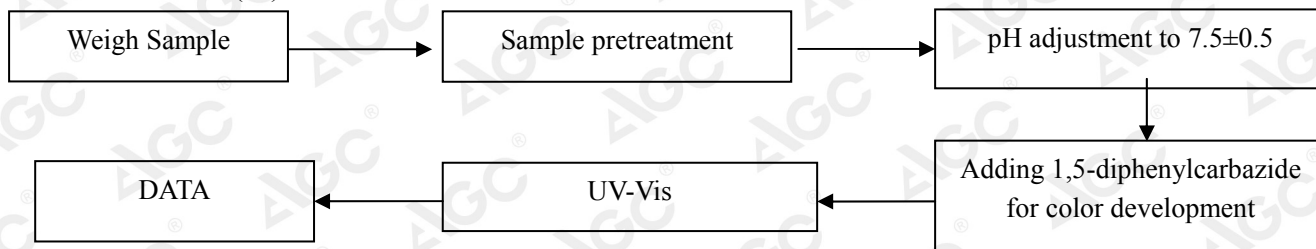
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Seq. No.	Test item	DIBP	DBP	BBP	DEHP	Conclusion
		1000	1000	1000	1000	
84		N.D.	N.D.	N.D.	N.D.	Pass
85		N.D.	N.D.	N.D.	N.D.	Pass
86		N.D.	N.D.	N.D.	N.D.	Pass

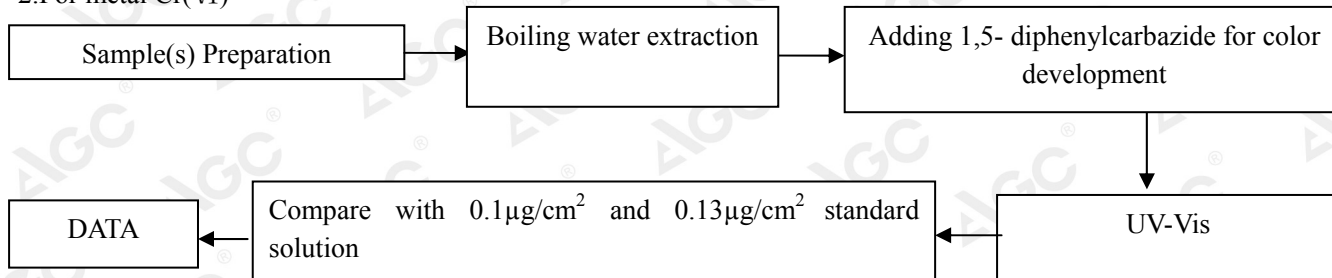
Note:
 1. MDL=Method Detection Limit
 2. N.D.=Not Detected(less than method detection limit)

Test Flow Chart

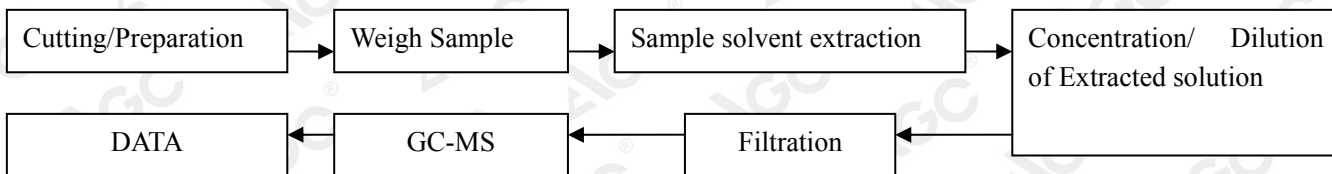
1.For non-metal Cr(VI)



2.For metal Cr(VI)



3.For PBBs, PBDEs, DBP, BBP, DEHP, DIBP



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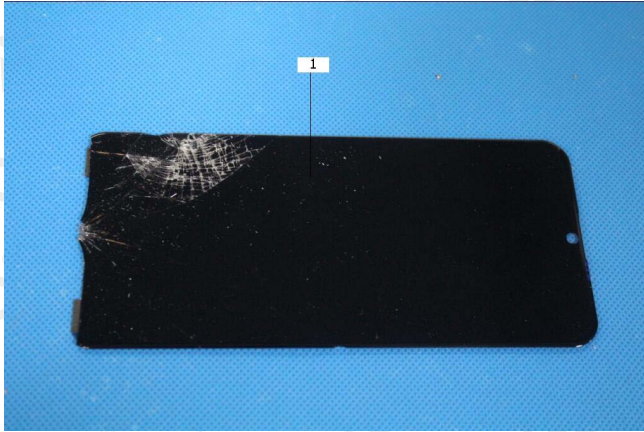
Test Report

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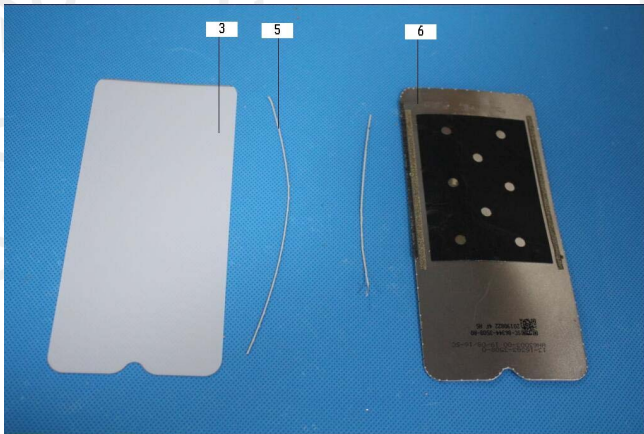
The photo of the sample



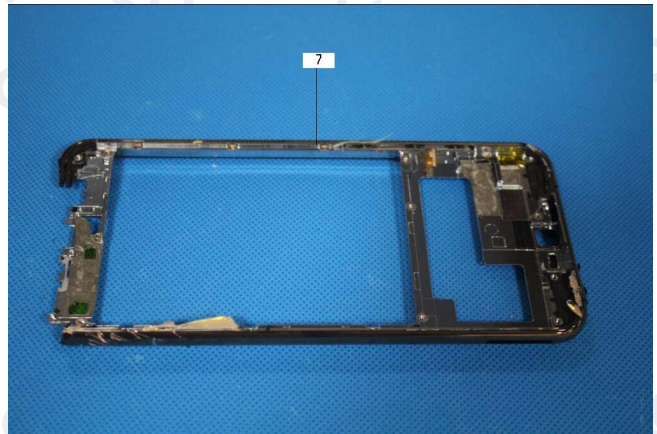
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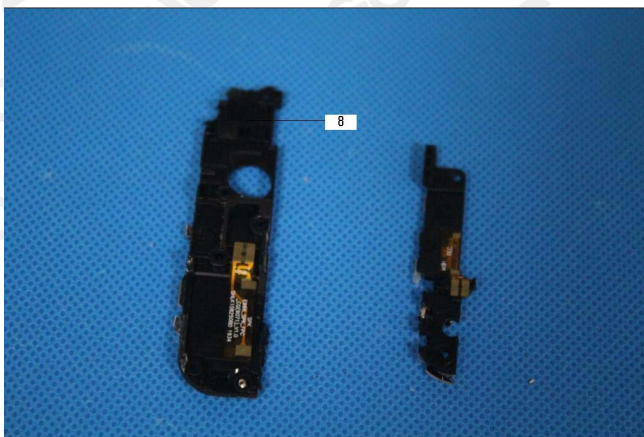
2



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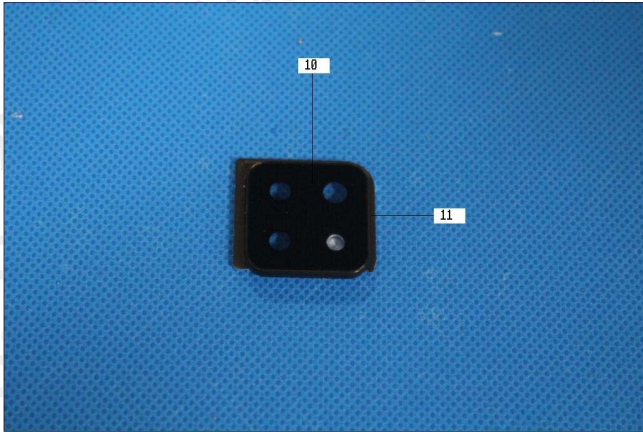


Test Report

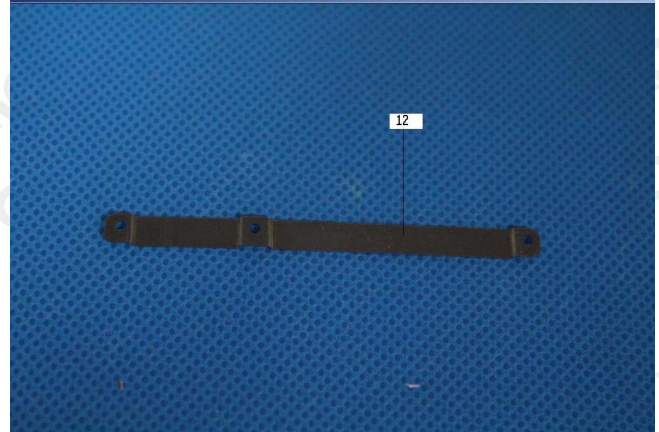
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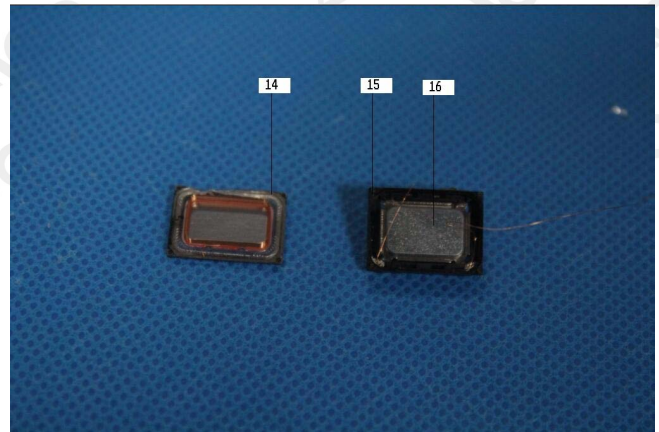
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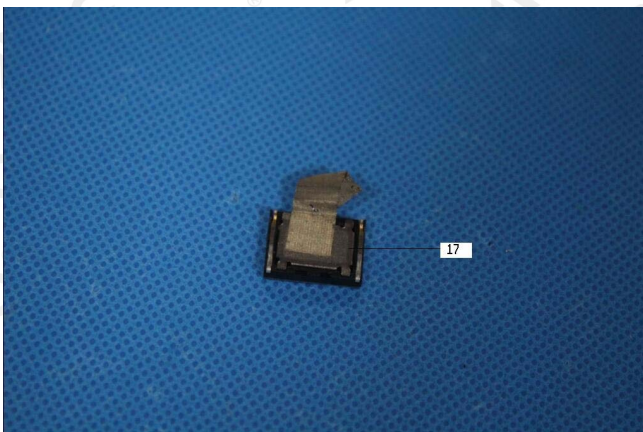
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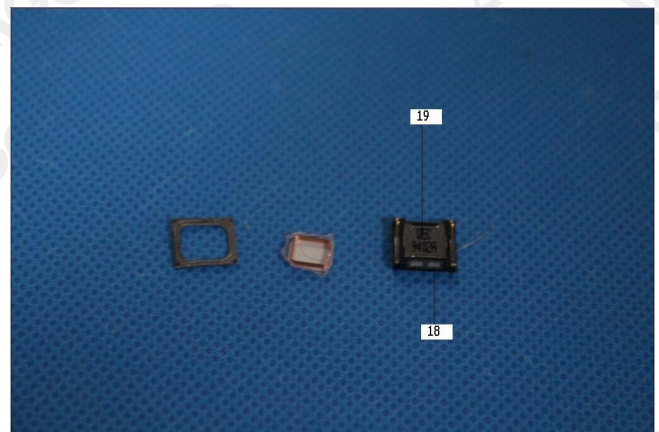
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No.18 C

Test Report

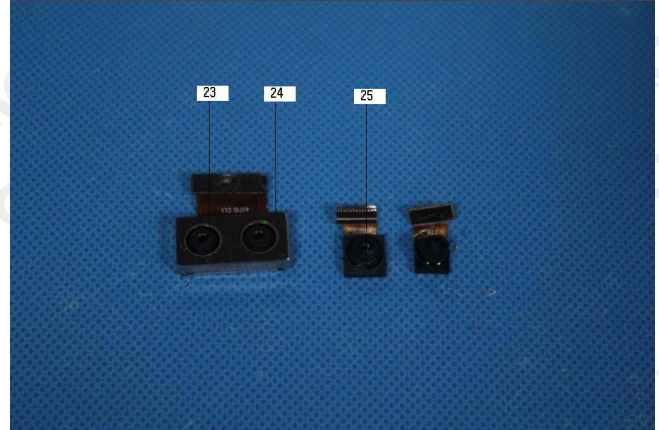
Report No.: AGC00552191002-001

Date: Oct.23, 2019

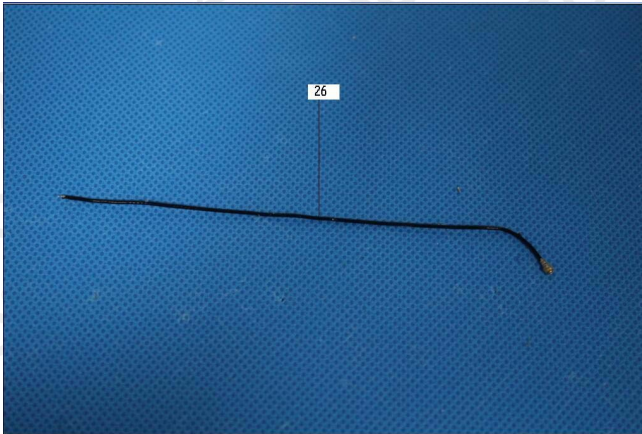
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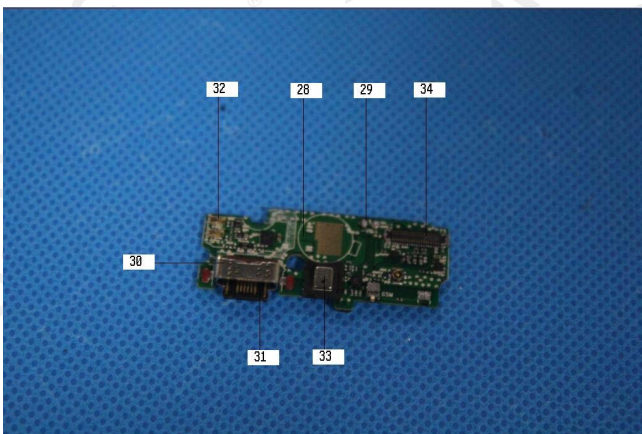
14



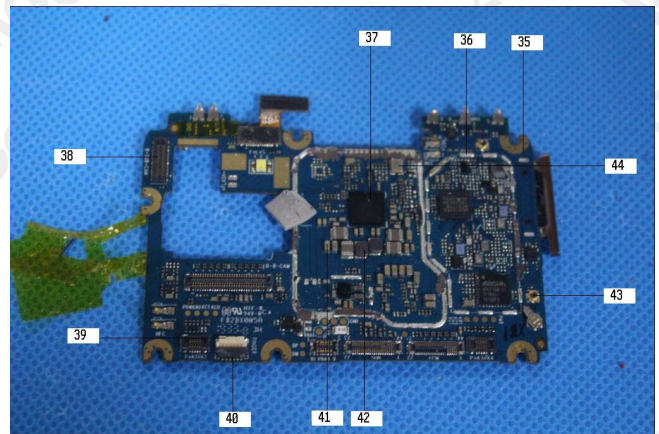
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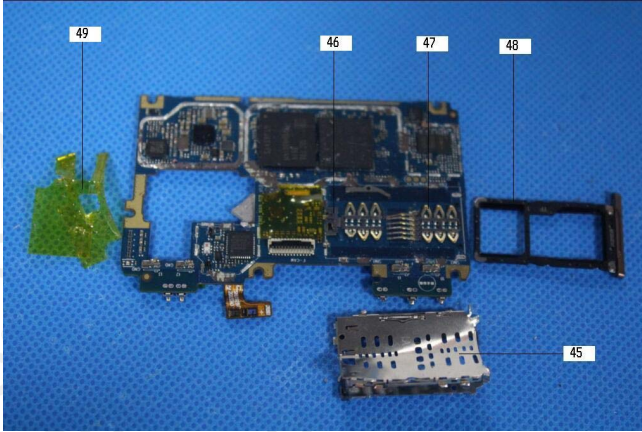
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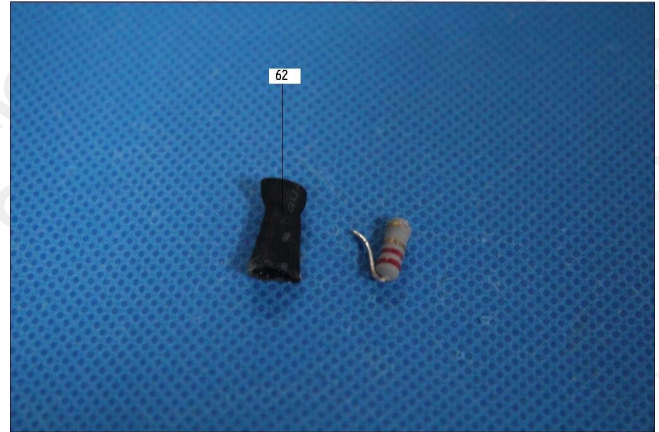
Report No.: AGC00552191002-001

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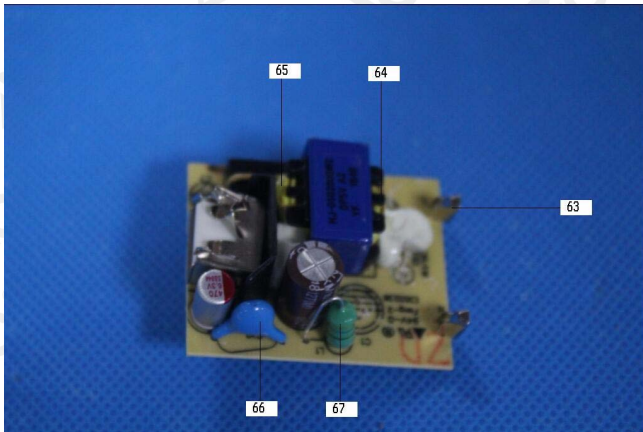
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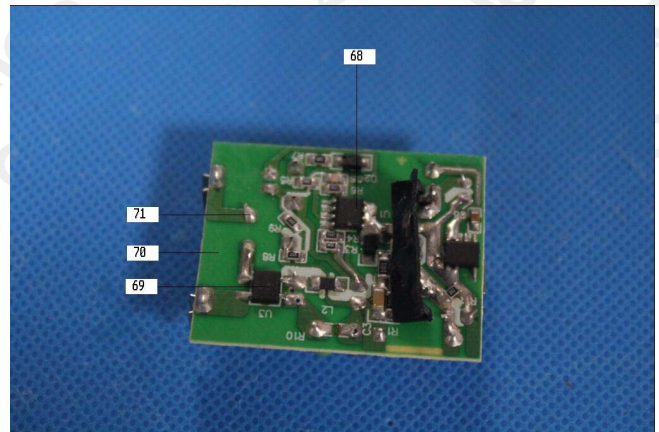
25



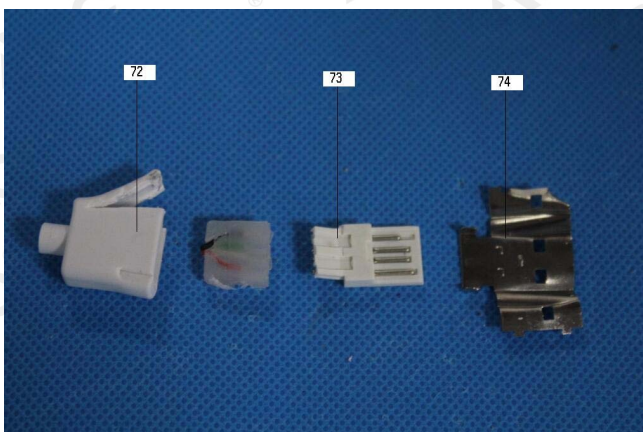
26



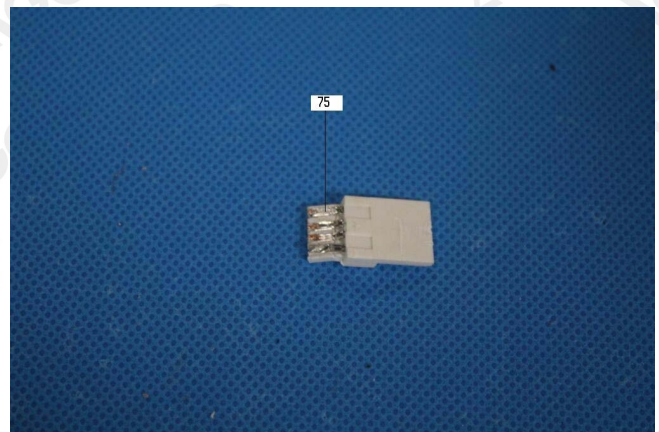
27



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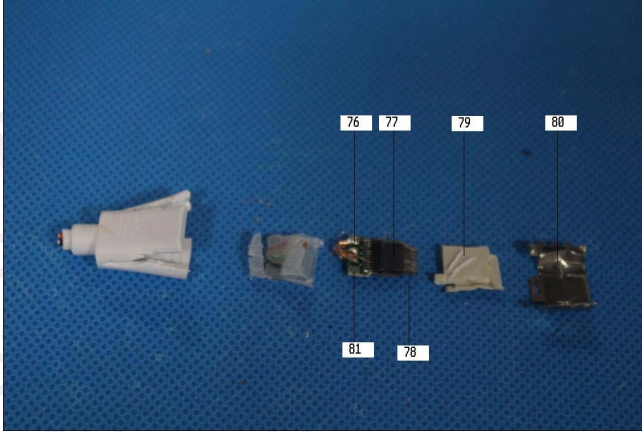
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Test Report

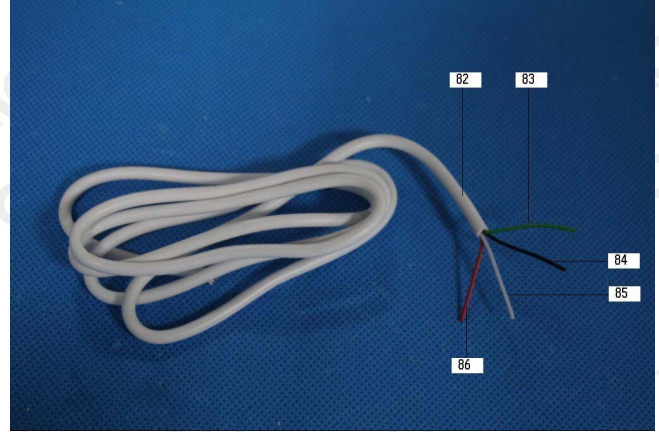
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