

Test Report

Report No.: AGC00807180903-001

Date: Sep.28, 2018

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Applicant: Sitecom Europe B.V.
Address: Blaak 6 | 3011 TA Rotterdam | The Netherlands


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

Sample Name: Rockbox Bold S
Sample Model: 1RB6000CCv1 001, 1RB6000CLv1 001, 1RB6000INv1 001, 1RB6000PTv1 001
Manufacturer:

Address:

Sample Received Date: Sep.13, 2018
Testing Period: Sep.13, 2018 to Sep.28, 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
			68	
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

68	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	Green rubber mat(Shell)	BL	BL	BL	BL	BL
2	Green mesh cloth(Shell)	BL	BL	BL	BL	BL
3	Black plastic shell(Shell)	BL	BL	BL	BL	BL
4	Green plastic shell(Shell)	BL	BL	BL	BL	BL
5	Green rubber stopper(Shell)	BL	BL	BL	BL	BL
6	Bronze buckle(Camisole)	BL	BL	BL	BL	-
7	Green rubber belt(Camisole)	BL	BL	BL	BL	BL
8	Black rubber button	BL	BL	BL	BL	BL
9	Hot melt adhesive	BL	BL	BL	BL	BL
10	Black rubber vibrating film(Bass mask)	BL	BL	BL	BL	BL
11	Silver metal sheet(Bass mask)	BL	BL	BL	BL	-
12	White seal ring(Bass mask)	BL	BL	BL	BL	BL
13	Black screw	BL	BL	BL	BL	-
14	Black plastic seat(Joint plate)	BL	BL	BL	BL	BL
15	Micro metal connector(Joint plate)	BL	BL	BL	X*	-
16	Black audio holder(Joint plate)	BL	BL	BL	BL	BL
17	Chip resistor(Joint plate)	BL	BL	BL	BL	BL
18	Tin solder(Joint plate)	BL	BL	BL	BL	-
19	PCB board(Joint plate)	BL	BL	BL	BL	X*
20	Chip LED(Joint plate)	BL	BL	BL	BL	BL
21	Black plastic button(FFC seat)	BL	BL	BL	BL	BL
22	White plastic seat(FFC seat)	BL	BL	BL	BL	BL
23	FFC(FFC)	BL	BL	BL	BL	X*
24	Blue plastic piece(FFC)	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
25	White plastic button(Tact Switch) (Switch board)	BL	BL	BL	BL	BL
26	Silver metal shell(Tact Switch) (Switch board)	BL	BL	BL	X*	-
27	PCB board (Switch board)	BL	BL	BL	BL	X*
28	Tin solder (Switch board)	BL	BL	BL	BL	-
29	Green sleeving (Electrolytic capacitor) (Motherboard)	BL	BL	BL	BL	BL
30	Aluminum shell(Electrolytic capacitor) (Motherboard)	BL	BL	BL	BL	-
31	White glue (Motherboard)	BL	BL	BL	BL	BL
32	Crystal oscillator body(Crystal oscillator) (Motherboard)	BL	BL	BL	BL	BL
33	Black plastic seat(Crystal oscillator) (Motherboard)	BL	BL	BL	BL	BL
34	IC body(IC) (Motherboard)	BL	BL	BL	BL	BL
35	Pin(IC) (Motherboard)	BL	BL	BL	BL	-
36	Chip capacitor	BL	BL	BL	BL	BL
37	Black plastic button(FFC seat) (Motherboard)	BL	BL	BL	BL	BL
38	White plastic seat(FFC seat) (Motherboard)	BL	BL	BL	BL	BL
39	Green sleeving (Electrolytic capacitor) (Motherboard)	BL	BL	BL	BL	BL
40	White plastic micropositioner (Motherboard)	BL	BL	BL	BL	BL
41	Red plastic micropositioner (Motherboard)	BL	BL	BL	BL	BL
42	Chip diode (Motherboard)	BL	BL	BL	BL	X*
43	Gray inductance (Motherboard)	BL	BL	BL	BL	X*
44	Black plastic button (Tact Switch) (Motherboard)	BL	BL	BL	BL	BL
45	Silver metal sheet (Tact Switch) (Motherboard)	X*	BL	BL	BL	-
46	Tin solder (Motherboard)	BL	BL	BL	BL	-
47	PCB board (Motherboard)	BL	BL	BL	BL	X*
48	Black wire jacket (Microphone)	BL	BL	BL	BL	BL
49	Red wire jacket(Microphone)	BL	BL	BL	BL	BL
50	Wire core(Microphone)	BL	BL	BL	BL	-

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Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
51	Tin solder(Microphone)	BL	BL	BL	BL	-
52	PCB board(Microphone)	BL	BL	BL	BL	X*
53	Copper shell(Microphone)	BL	BL	BL	BL	-
54	Black glue cap(Microphone)	BL	BL	BL	BL	BL
55	Black magnetic shield(Horn)	BL	BL	BL	BL	-
56	Black metal frame(Horn)	BL	BL	BL	BL	-
57	Tin solder(Horn)	BL	BL	BL	BL	-
58	White connecting piece(Horn)	BL	BL	BL	BL	BL
59	Red wire jacket(Horn)	BL	BL	BL	BL	BL
60	White plastic terminal(Horn)	BL	BL	BL	BL	BL
61	Black wire jacket(Horn)	BL	BL	BL	BL	BL
62	Damper(Horn)	BL	BL	BL	BL	BL
63	Enameled coil(Horn)	BL	BL	BL	BL	-
64	Black rubber vibrating film(Horn)	BL	BL	BL	BL	BL
65	Black globe-roof(Horn)	BL	BL	BL	BL	BL
66	Black foam (Battery)	BL	BL	BL	BL	BL
67	Brown tape(Battery)	X*	BL	BL	BL	BL
69	Chip resistor(Battery)	BL	BL	BL	BL	BL
70	Chip capacitor(Battery)	BL	BL	BL	BL	BL
71	IC body(Battery)	BL	BL	BL	BL	X*
72	Pin(Battery)	X*	BL	BL	BL	-
73	Red wire jacket(Battery)	BL	BL	BL	BL	BL
74	White plastic terminal(Battery)	BL	BL	BL	BL	BL
75	Wire core(Battery)	X*	BL	BL	BL	-
76	Black wire jacket(Battery)	BL	BL	BL	BL	BL
77	Tin solder(Battery)	BL	BL	BL	BL	-

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Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
78	PCB board(Battery)	BL	BL	BL	BL	X*
79	Blue tape(Battery)	BL	BL	BL	BL	BL
Grey speakers (difference)						
80	Grey rubber sling	BL	BL	BL	BL	BL
81	Grey plastic shell	BL	BL	BL	BL	BL
82	Grey mesh cloth	BL	BL	BL	BL	BL
83	Gray rubber mats	BL	BL	BL	BL	BL
84	Grey rubber plug	BL	BL	BL	BL	BL
White speakers (difference)						
85	White rubber strap	BL	BL	BL	BL	BL
86	White plastic shell	BL	BL	BL	BL	BL
87	White mesh cloth	BL	BL	BL	BL	BL
88	White rubber pad	BL	BL	BL	BL	BL
89	White rubber plug	BL	BL	BL	BL	BL
Blue speakers (difference)						
90	Blue rubber strap	BL	BL	BL	BL	BL
91	Blue plastic shell	BL	BL	BL	BL	BL
92	Blue mesh cloth	BL	BL	BL	BL	BL
93	Blue rubber mat	BL	BL	BL	BL	BL
94	Blue rubber stopper	BL	BL	BL	BL	BL
95	Black silk screen	BL	BL	BL	BL	BL

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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 Cd

Test Item(s)	Unit	Result(s)			
		45	67	72	75
Cadmium(Cd)	mg/kg	N.D.	N.D.	N.D.	N.D.

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

MDL = Method Detection Limit

2)The Test Results of metal Cr⁶⁺

Test Item(s)	MDL	Result(s)		Limit
		15	26	
Hexavalent Chromium (Cr ⁶⁺)	See note	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 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
		19	23	27	42	43	47	
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
		52	71	78	
Polybrominated Biphenyls (PBBs)					
Monobromobiphenyl	5	N.D.	N.D.	N.D.	Total PBBs Content <1000
Dibromobiphenyl	5	N.D.	N.D.	N.D.	
Tribromobiphenyl	5	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	5	N.D.	N.D.	N.D.	
Pentabromobiphenyl	5	N.D.	N.D.	N.D.	
Hexabromobiphenyl	5	N.D.	N.D.	N.D.	
Heptabromobiphenyl	5	N.D.	N.D.	N.D.	
Octabromobiphenyl	5	N.D.	N.D.	N.D.	
Nonabromodiphenyl	5	N.D.	N.D.	N.D.	
Decabromodiphenyl	5	N.D.	N.D.	N.D.	
Total content	/	N.D.	N.D.	N.D.	
Polybrominated Diphenylethers (PBDEs)					
Monobromodiphenyl ether	5	N.D.	N.D.	N.D.	Total PBDEs Content <1000
Dibromodiphenyl ether	5	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	5	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	5	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	5	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	5	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	5	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	5	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	5	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	5	N.D.	N.D.	N.D.	
Total content	/	N.D.	N.D.	N.D.	
Conclusion	/	Pass	Pass	Pass	/

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

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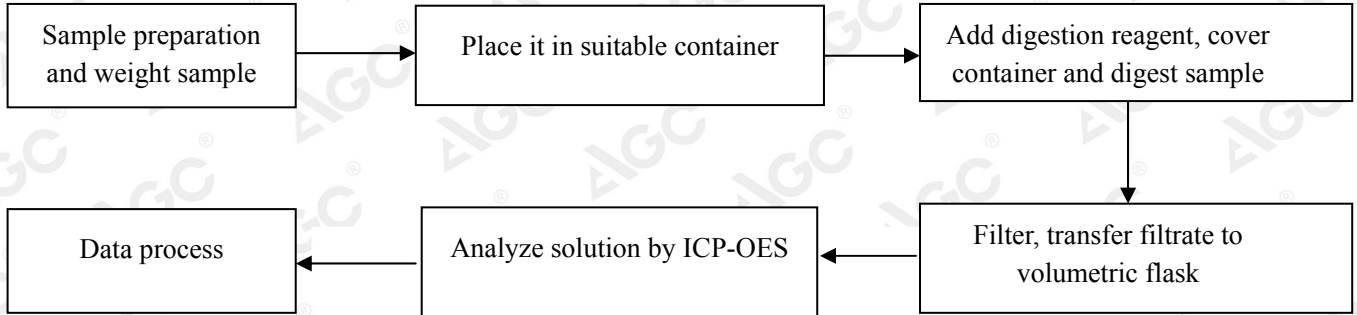
Report No.: AGC00807180903-001

Date: Sep.28, 2018

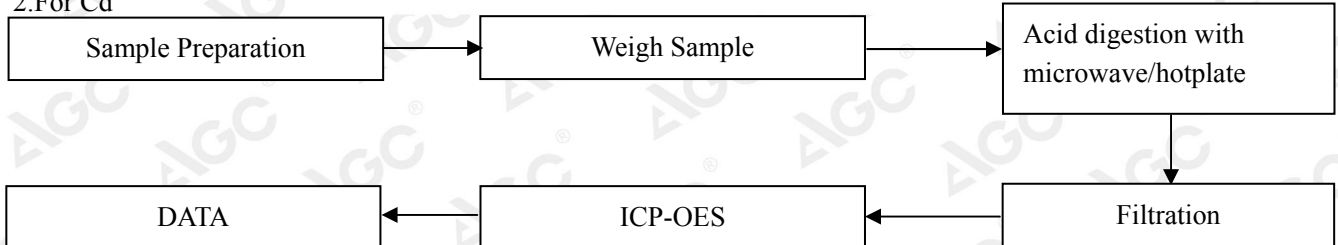
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Test Flow Chart

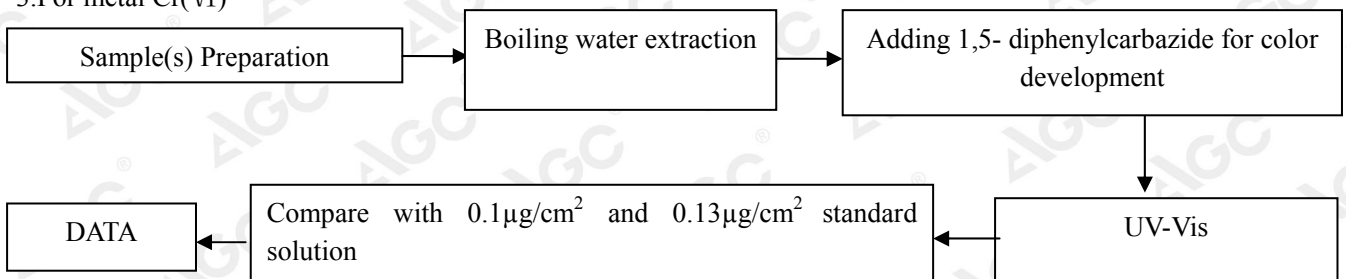
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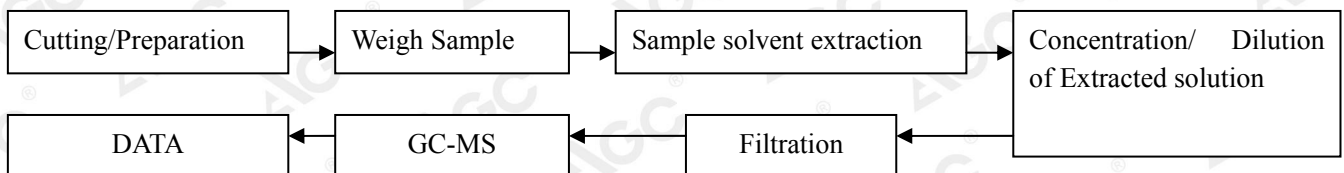
2. For Cd



3. For metal Cr(VI)



4. For PBBs & PBDEs



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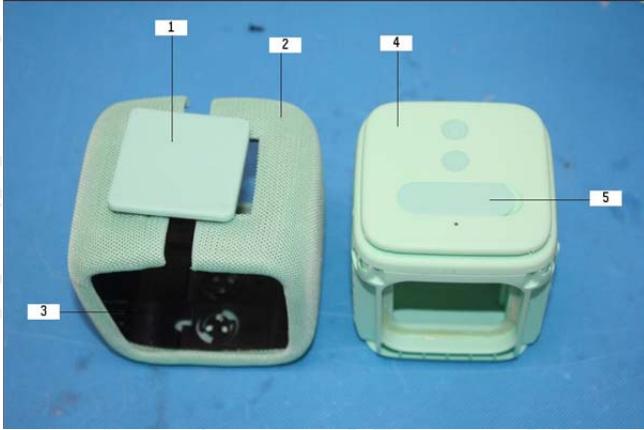
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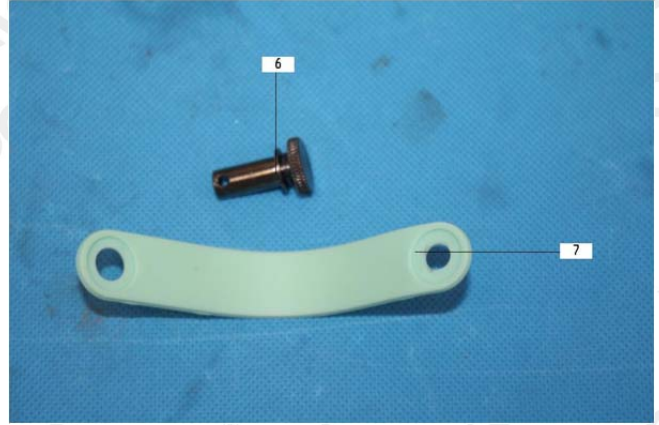
Date: Sep.28, 2018

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The photo of the sample



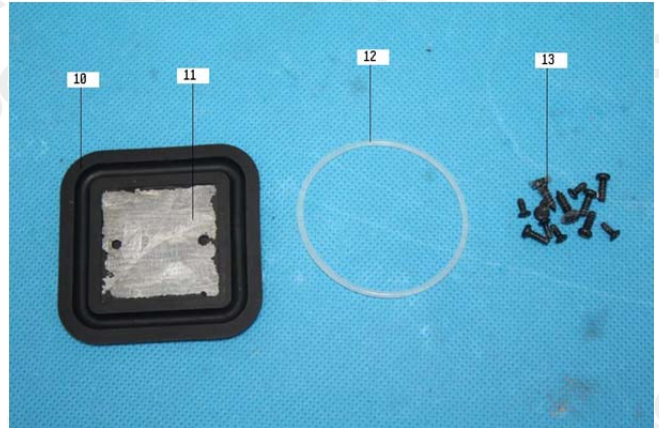
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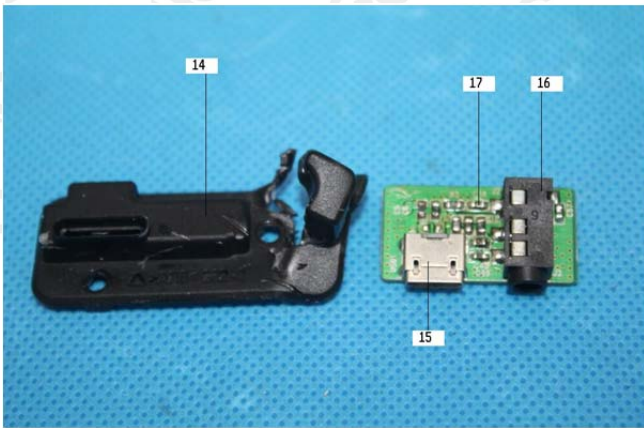
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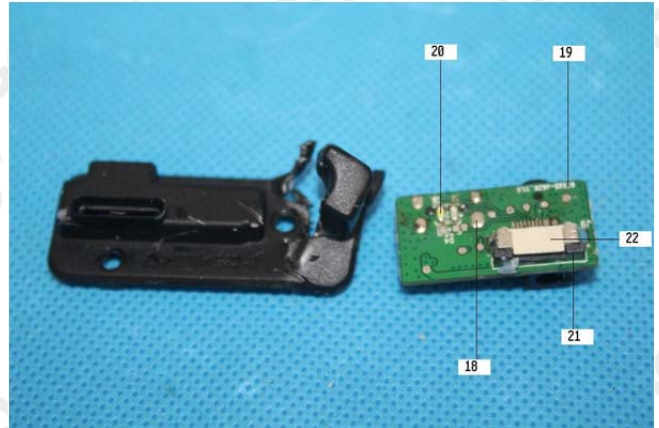
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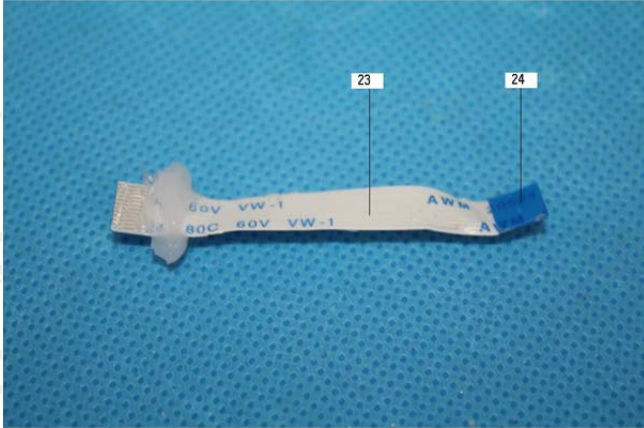
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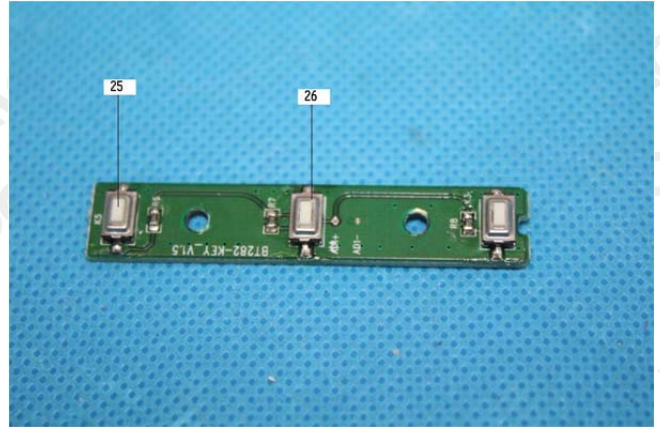
Report No.: AGC00807180903-001

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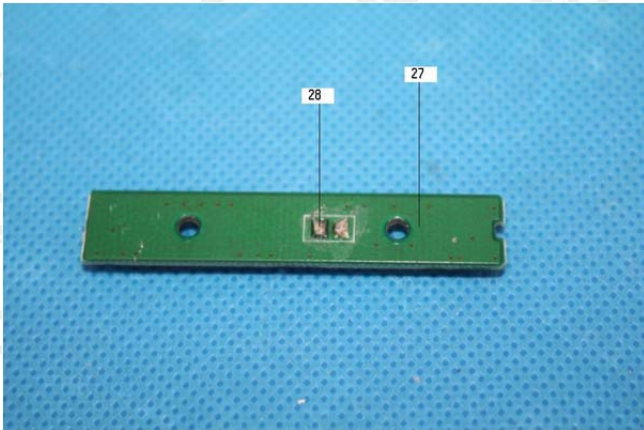
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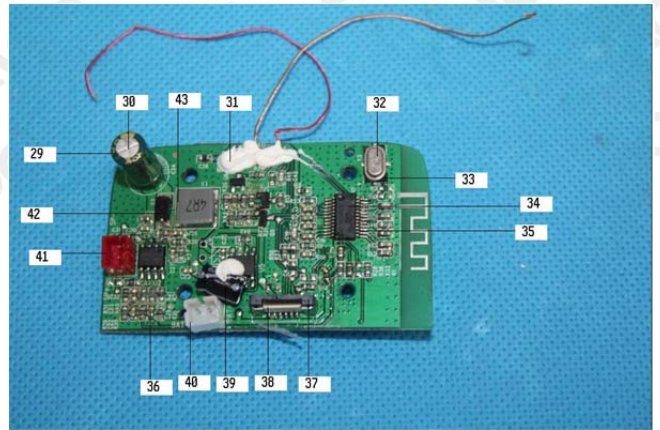
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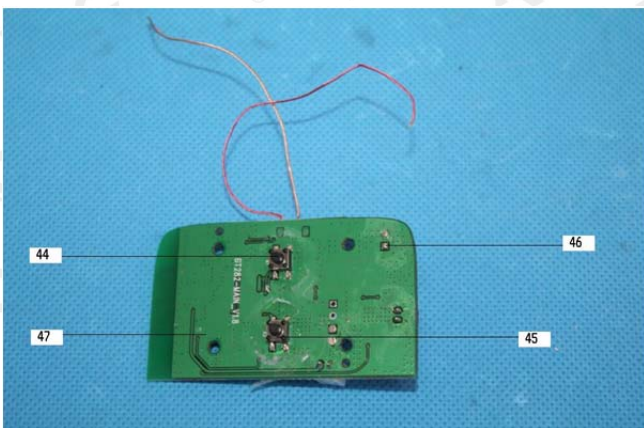
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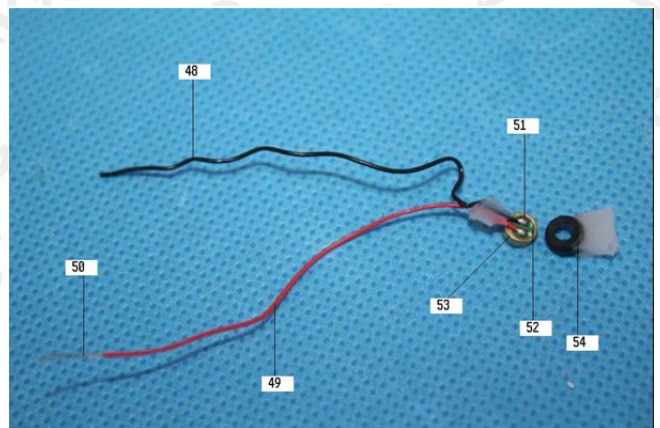
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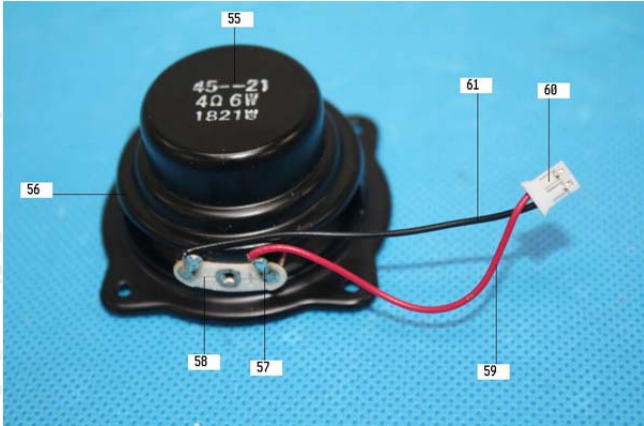
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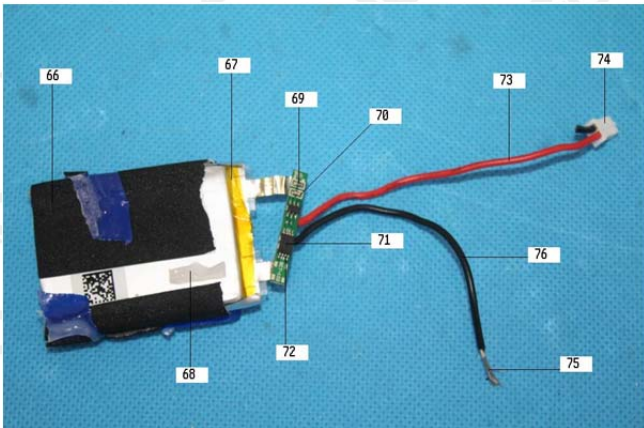
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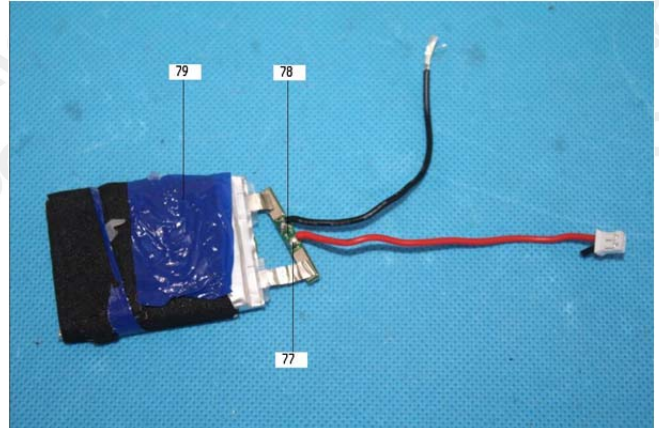
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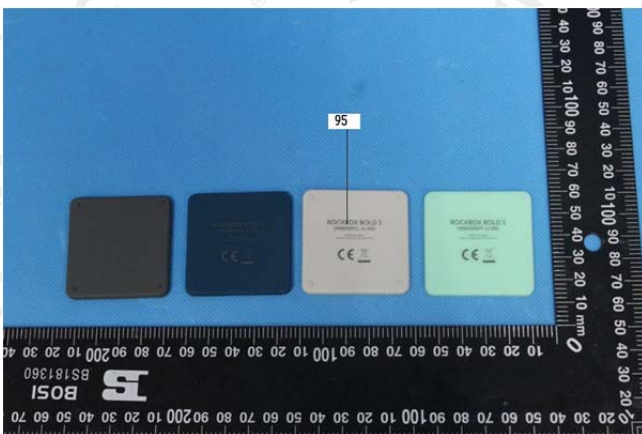
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