

Test Report

Report No.: A001R20170421034

Date: May 02, 2017

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Applicant:

Address:

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

Sample Name: Outdoor speaker

Model: XO-9123

Sample Received Date: Apr.21, 2017

Testing Period: Apr.21, 2017 to May 02, 2017

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: Leon

Suhongliang, Leon

Test Engineer

Reviewed by: Jason

Jiangyuncheng, Jason

Laboratory Manager

Approved by: Lewis

Liulinwen, Lewis

Technical Director



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Test Requested:

Conclusion

1. As specified by client, to determine the Polycyclic Aromatic Hydrocarbons (PAHs) content in the submitted sample(s) with German Consumer Product Safety Commission (AfPS) revised German consumer product safety regulations (ProdSG: 2014).
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.

/

Pass

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Test Result(s):
1. Test result of Polycyclic Aromatic Hydrocarbons (PAHs)

Unit: mg/kg

Test Item(s)	Test Method /Equipment	MDL	Result(s)
			1-1
Naphthalene (NAP)	Refer to German consumer product safety regulations AfPS GS 2014:01 PAK GC-MS	0.1	N.D.
Acenaphthylene (ANY)		0.1	N.D.
Acenaphthene (ANA)		0.1	N.D.
Fluorene (FLU)		0.1	N.D.
Phenanthrene (PHE)		0.1	N.D.
Anthracene (ANT)		0.1	N.D.
Fluoranthene (FLT)		0.1	N.D.
Pyrene (PYR)		0.1	N.D.
Benzo[a]anthracene (BaA)		0.1	N.D.
Chrysene (CHR)		0.1	N.D.
Benzo[b]fluoranthene (BbF)		0.1	N.D.
Benzo[k]fluoranthene (BkF)		0.1	N.D.
Benzo[j]fluoranthene(BjF)		0.1	N.D.
Benzo[a]pyrene (BaP)		0.1	N.D.
Benzo[e]pyrene(BeP)		0.1	N.D.
Indeno[1,2,3-cd]pyrene (IPY)		0.1	N.D.
Dibenzo[a,h]anthracene (DBA)		0.1	N.D.
Benzo[g,h,i]perylene (BPE)		0.1	N.D.
Sum of 18 PAHs		—	N.D.

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ProdSG -2014: Restraining maximum values for product (Unit: mg/kg):

substance	Category 1	Category 2		Category 3	
	The material which can be put into mouth, or long time contact skin of toy material (more than 30 seconds)	The material which is not included in Category 1, but long time contact skin (more than 30 seconds), or contact skin repeated but every time for a short time		The material which is not included in Category 1 and 2, but short time contact skin (less than 30 seconds)	
		The toys belong to 2009/48/EC	Other products	The toys belong to 2009/48/EC	Other products
Benzo(a)pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(1,2,3-cd)pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Acenaphthylene Acenaphthene Fluorene Phenanthrene Pyrene Anthracene fluoranthene	< 1	< 5	< 10	< 20	< 50
Naphthalene	< 1	< 2		< 10	
Sum of 18 PAHs	< 1	< 5	< 10	< 20	< 50

- Note:**
1. MDL = Method Detection Limit
 2. N.D. = Not Detected (less than method detection limit)
 3. As specified by client, only test the designated sample.

Sample description:

1-1	Black silicone handle
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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 ⁶⁺)	IEC 62321:2008 Ed 1.0 Annex C	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

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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	Red rubber tape(shell)	BL	BL	BL	BL	BL
2	Red plastic shell(shell)	BL	BL	BL	BL	BL
3	Red rubber plug(shell)	BL	BL	BL	BL	BL
4	White plastic base(shell)	BL	BL	BL	BL	BL
5	Silver coating(shell)	BL	BL	BL	BL	BL
6	Metal net cover(shell)	BL	BL	BL	BL	-
7	Magnetic shield(horn)	BL	BL	BL	BL	-
8	Metal frame(horn)	BL	BL	BL	BL	-
9	Tin solder(horn)	BL	BL	BL	BL	-
10	White connector(horn)	BL	BL	BL	BL	BL
11	rivet(horn)	BL	BL	BL	BL	-
12	Red line leather(horn)	BL	BL	BL	BL	BL
13	Wire core(horn)	BL	BL	BL	BL	-
14	Black line leather(horn)	BL	BL	BL	BL	BL
15	magnet(horn)	BL	BL	BL	BL	-
16	Black press ring(horn)	BL	BL	BL	BL	BL
17	Rubber diaphragm(horn)	BL	BL	BL	BL	BL
18	Black paper circle(horn)	BL	BL	BL	BL	BL
19	Enameled wire(horn)	BL	BL	BL	BL	-
20	The top of the ball(horn)	BL	BL	BL	BL	BL
21	Crystal oscillator body(Crystal oscillator)	BL	BL	BL	BL	BL
22	Black plastic seat(Crystal oscillator)	BL	BL	BL	BL	BL
23	IC Ontology(U1)	BL	BL	BL	BL	BL
24	Pin(U1)	BL	BL	BL	BL	-

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Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
25	IC Ontology(U3)	BL	BL	BL	BL	BL
26	Pin(U3)	BL	BL	BL	BL	-
27	chip resistor	BL	BL	BL	BL	BL
28	SMD triode	BL	BL	BL	BL	BL
29	SMD diode	BL	BL	BL	BL	BL
30	Red glue	BL	BL	BL	BL	BL
31	Solder resist(PCB board)	BL	BL	BL	BL	BL
32	Substrate(PCB board)	BL	BL	BL	BL	X*
33	copper foil(PCB board)	BL	BL	BL	BL	-
34	Tin solder(PCB board)	BL	BL	BL	BL	-
35	White LED lamp	BL	BL	BL	BL	X*
36	Patch LED	BL	BL	BL	BL	BL
37	Black plastic button(Tact Switch)	BL	BL	BL	BL	BL
38	Shrapnel(Tact Switch)	BL	BL	BL	X*	-
39	metal sheet(Tact Switch)	BL	BL	BL	BL	-
40	Black plastic seat(Tact Switch)	BL	BL	BL	BL	BL
41	Pin(Tact Switch)	BL	BL	BL	BL	-
42	Metal shell(Android plug)	BL	BL	BL	BL	-
43	Black inner glue(Android plug)	BL	BL	BL	BL	BL
44	Pin(Android plug)	BL	BL	BL	BL	-
45	Brown tape(Battery)	BL	BL	BL	X*	BL
46	Black sponge(Battery)	BL	BL	BL	BL	BL
47	Red line leather(Battery)	BL	BL	BL	BL	BL
48	Wire core(Battery)	BL	BL	BL	BL	-
49	Black line leather(Battery)	BL	BL	BL	BL	BL
50	Tin solder(Battery)	BL	BL	BL	BL	-

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Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
51	Metal connecting piece(Battery)	BL	BL	BL	BL	-
USB line						
53	White handle(USB plug)	BL	BL	BL	BL	BL
54	White inner glue(USB plug)	BL	BL	BL	BL	BL
55	Tin solder(USB plug)	BL	BL	BL	BL	-
56	White plastic plug(USB plug)	BL	BL	BL	BL	BL
57	Pin(USB plug)	BL	BL	BL	BL	-
58	Metal shell(USB plug)	BL	BL	BL	BL	-
59	White handle(Android plug)	BL	BL	BL	BL	BL
60	Tin solder(Android plug)	BL	BL	BL	BL	-
61	Black plastic plug(Android plug)	BL	BL	BL	BL	BL
62	Metal needle(Android plug)	BL	BL	BL	X*	-
63	Pin(Android plug)	BL	BL	BL	BL	-
64	Metal shell(Android plug)	BL	BL	BL	X*	-
65	White outer line leather(Wire rod)	BL	BL	BL	BL	BL
66	White inner line leather(Wire rod)	BL	BL	BL	BL	BL
67	Wire core(Wire rod)	BL	BL	BL	BL	-
difference						
68	Black rubber belt(Black speaker)	BL	BL	BL	BL	BL
69	Black plastic shell(Black speaker)	BL	BL	BL	BL	BL
70	Black rubber plug(Black speaker)	BL	BL	BL	BL	BL
71	Grey rubber belt(Gray speaker)	BL	BL	BL	BL	BL
72	Grey plastic shell(Gray speaker)	BL	BL	BL	BL	BL
73	Gray rubber plug(Gray speaker)	BL	BL	BL	BL	BL
74	Blue coating(Gray speaker)	BL	BL	BL	BL	BL
75	Blue rubber band(Blue speaker)	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
76	Blue plastic shell(Blue speaker)	BL	BL	BL	BL	BL
77	Blue rubber plug(Blue speaker)	BL	BL	BL	BL	BL
78	Orange coating(Blue speaker)	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 the document 2005/618/EC amending 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 non-metal Cr⁶⁺

Test Item(s)	Unit	Result(s)	Limit
		45	
Hexavalent Chromium(Cr ⁶⁺)	mg/kg	N.D.	1000

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
		38	62	64	
Hexavalent Chromium (Cr ⁶⁺)	**	Negative	Negative	Negative	#

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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 $\mu\text{g}/\text{cm}^2$ 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 \geq the 0,10 $\mu\text{g}/\text{cm}^2$ and \leq the 0,13 $\mu\text{g}/\text{cm}^2$ 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 $\mu\text{g}/\text{cm}^2$ 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
		32	35	
Polybrominated Biphenyls (PBBs)				
Monobromobiphenyl	5	N.D.	N.D.	Total PBBs Content <1000
Dibromobiphenyl	5	N.D.	N.D.	
Tribromobiphenyl	5	N.D.	N.D.	
Tetrabromobiphenyl	5	N.D.	N.D.	
Pentabromobiphenyl	5	N.D.	N.D.	
Hexabromobiphenyl	5	N.D.	N.D.	
Heptabromobiphenyl	5	N.D.	N.D.	
Octabromobiphenyl	5	N.D.	N.D.	
Nonabromodiphenyl	5	N.D.	N.D.	
Decabromodiphenyl	5	N.D.	N.D.	
Total content	/	N.D.	N.D.	
Polybrominated Diphenylethers (PBDEs)				
Monobromodiphenyl ether	5	N.D.	N.D.	Total PBDEs Content <1000
Dibromodiphenyl ether	5	N.D.	N.D.	
Tribromodiphenyl ether	5	N.D.	N.D.	
Tetrabromodiphenyl ether	5	N.D.	N.D.	
Pentabromodiphenyl ether	5	N.D.	N.D.	
Hexabromodiphenyl ether	5	N.D.	N.D.	
Heptabromodiphenyl ether	5	N.D.	N.D.	
Octabromodiphenyl ether	5	N.D.	N.D.	
Nonabromodiphenyl ether	5	N.D.	N.D.	
Decabromodiphenyl ether	5	N.D.	N.D.	
Total content	/	N.D.	N.D.	
Conclusion	/	Pass	Pass	/

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

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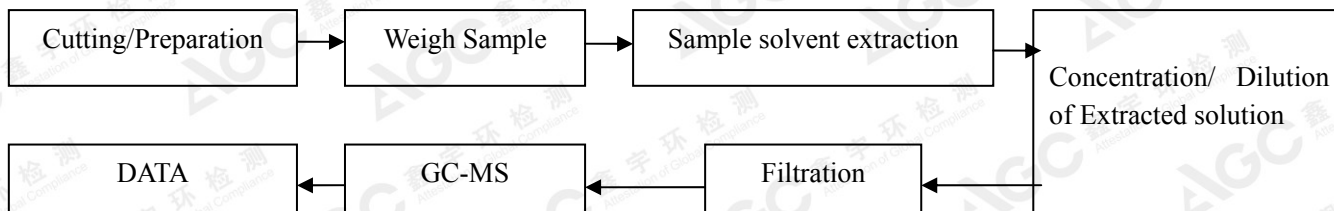
Report No.: A001R20170421034

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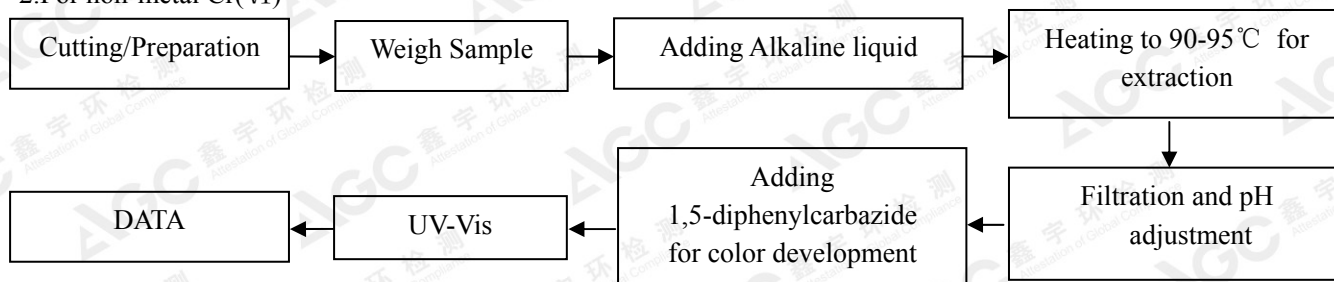
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Test Flow Chart

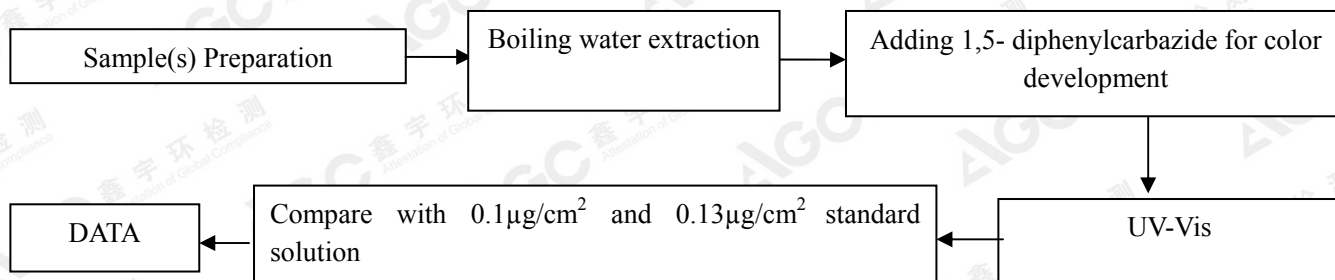
1.For PAHs



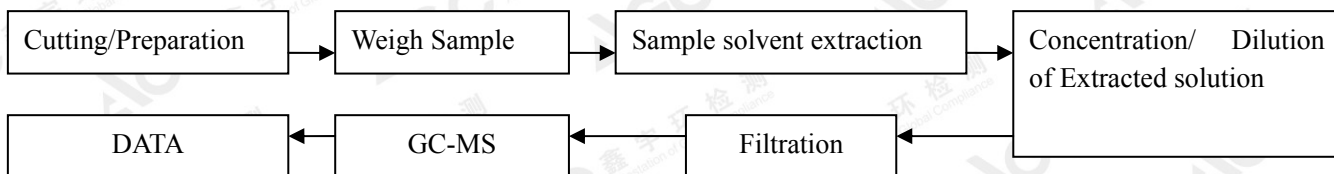
2.For non-metal Cr(VI)



3.For metal Cr(VI)



4.For PBBs & PBDEs



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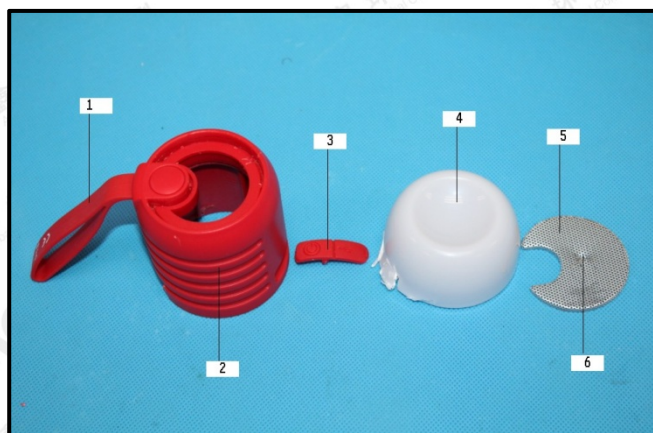
Test Report

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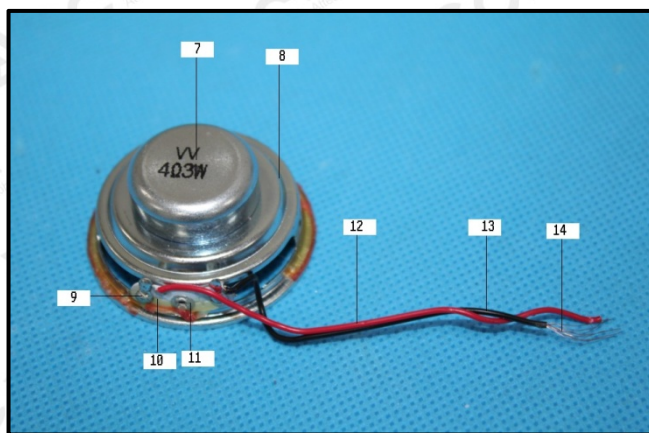
Date: May 02, 2017

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The photo of the sample



1



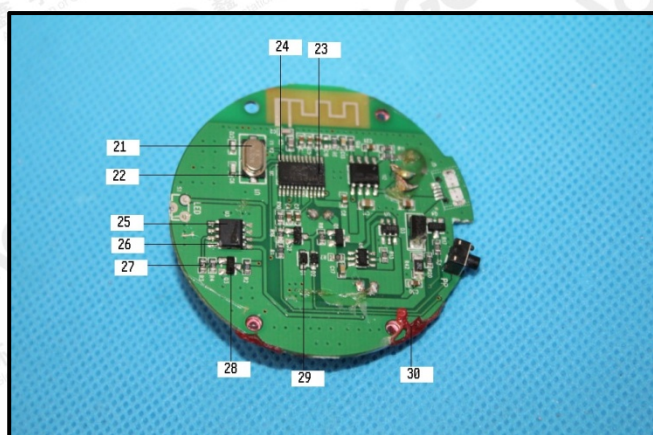
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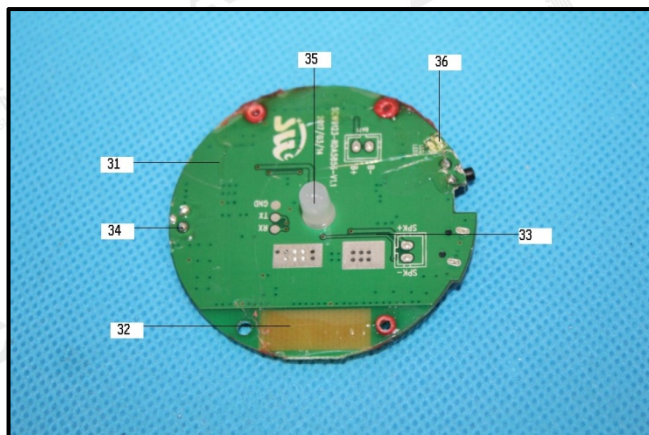
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4



5



6

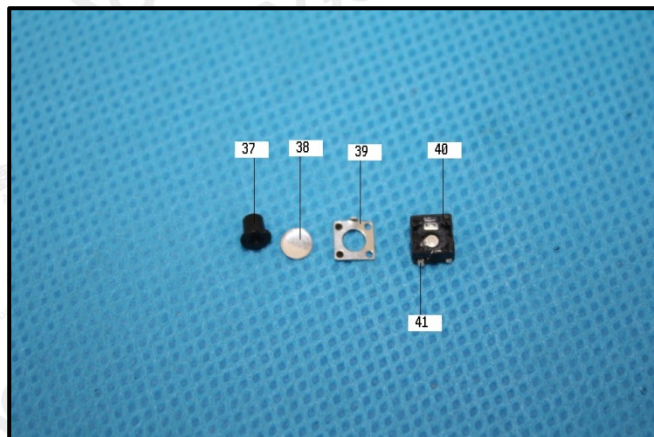
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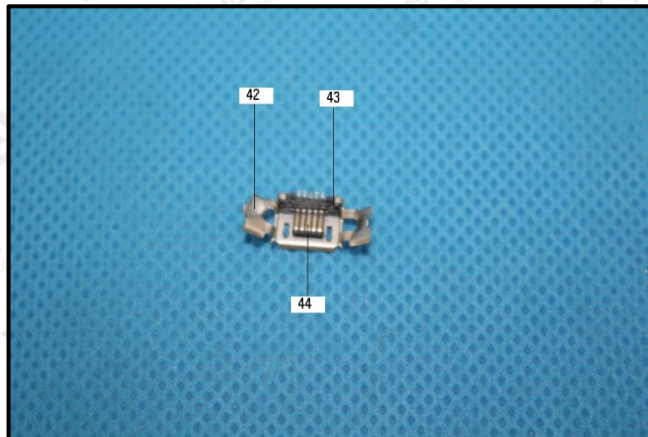
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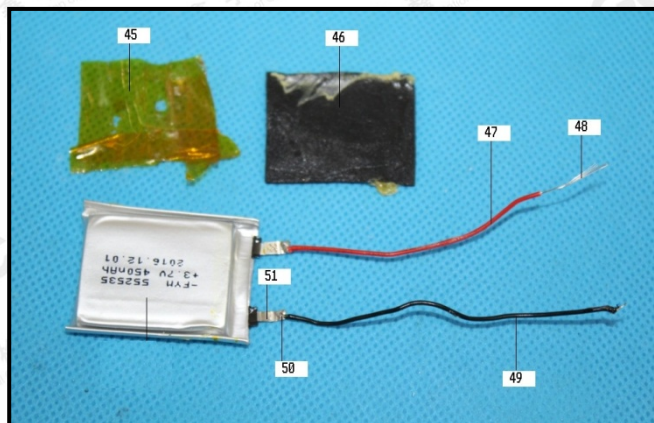
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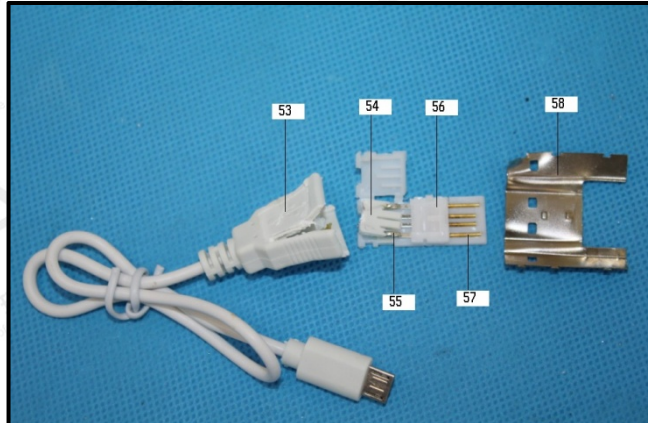
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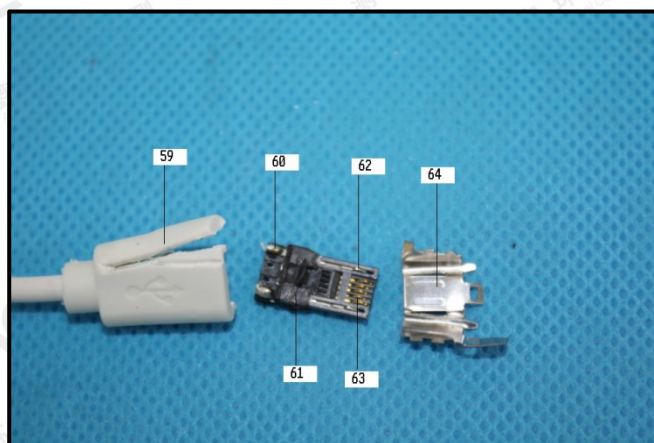
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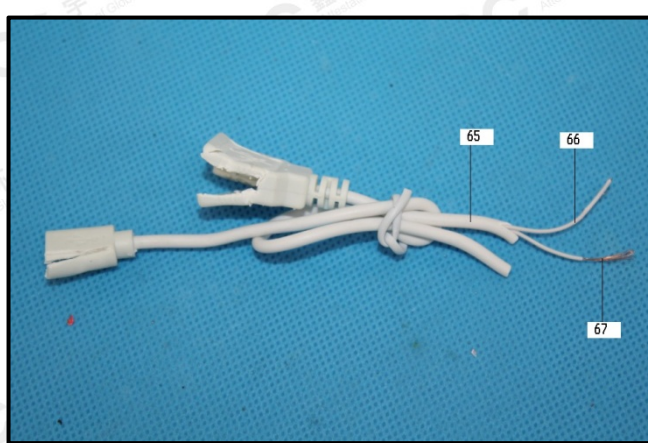
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Add: Building 2, No. 171, Meihua Road, Shangmeilin, Futian District, Shenzhen, Guangdong China

No.16 C

Test Report

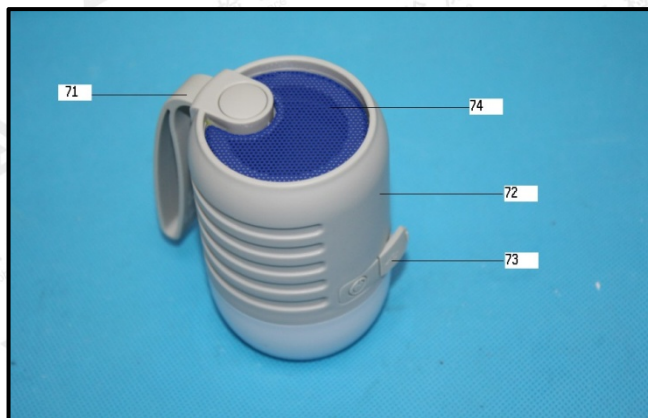
Report No.: A001R20170421034

Date: May 02, 2017

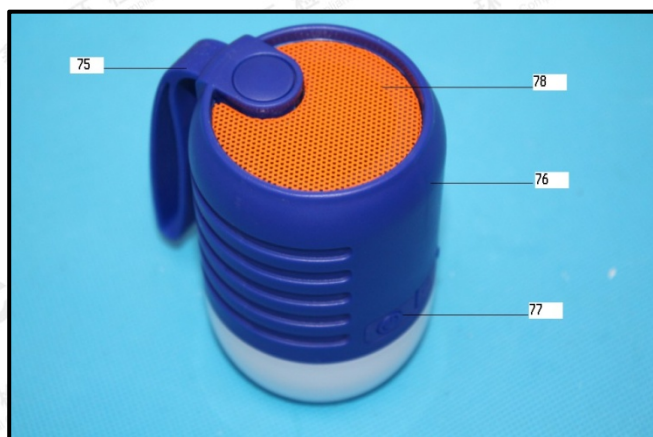
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AGC authenticate the photo only on original report

*** End of Report ***

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