

#### Report No.: AGC01881180403-002

AGC

Date: Nov.29, 2018

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Applicant:	Xindao B.V.	
Address:	P.O. Box 3082, 2280 GB, Rijswijk, Th	e Netherlands

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

Sample Name:	Bamboo X speaker large
Model No.:	P328.11X,M10
Manufacturer:	Xindao B.V.
Address:	P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands
Test site:	6/F.,Building 2,No. 1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong, China
Sample Received Date:	Nov.20, 2018
Testing Period:	Nov.20, 2018 to Nov.29, 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).





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Conclusion

Pass

#### **Test Requested:**

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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

#### **Test Methods:**

A: <u>Screening by X-ray Fluorescence Spectrometry (XRF)</u>: 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 62321-4:2013+A1:2017 Ed 1.1	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 Result(s):

1. Test result of Lead(Pb), Cadmium(Cd), Mercury(Hg)

- G		- C	8	Unit: %,w/w
Test item(s)	Test Method/	MDL	Result(s)	Gimit
Test nem(s)	Equipment	®	28	Limit  0.002
Lead (Pb)	Refer to IEC 62321-5:2013	0.0005	N.D.	
Cadmium (Cd)	ICP-OES	0.0005	N.D.	0.002
Mercury (Hg)	Refer to IEC 62321-4:2013+A1:2017 ICP-OES	0.0001	N.D.	0.0005
Conclusion			Pass	<sub>8</sub> /

#### 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

28 Electric core (battery)

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#### **Test Results:**

#### A、EU RoHS Directive 2011/65/EU and its amendment directives on XRF

Seq.			Re	esults(mg/	kg)	
No.	Tested Part(s)	Cd	Pb	Hg	Cr	Br
1 ©	Black mesh cloth(Shell)	BL®	BL	BL	BL	BL
2	Black lifting rope(Shell)	BL	BL	BL	BL	BL
3	Black rubber button(Shell)	BL	BL	BL	BL	BL
4	Black plastic shell(Shell)	BL	BL	BL	BL	BL
5	Black rubber vibrating film(Shell)	BL	BL	BL	BL	BL
6	Black metal sheet(Shell)	BL	BL	BL	BL	
7	Silver screw	BL	BL	BL	BL	-
8	IC body(IC)	BL	BL	BL	BL	BL
9	Tin plated pin(IC)	BL®	BL	BL	BL	0
10	Crystal oscillator	BL	BL	BL	BL	BL
11	Black sleeving(Electrolytic capacitor)	BL	BL	BL	BL	BL
12	Aluminum shell(Electrolytic capacitor)	BL	BL	BL	BL	9-
13	White plastic micropositioner	BL	BL	BL	BL	BL
14	Black audio holder	BL	BL	BL	BL	BL
15	Silver metal cover(Memory card holder)	BL	BL	BL	X*	-
16	Micro metal connector	BL	BL	BL	BL	-
17	Chip LED	BL	BL	BL	BL	BL
18	Gray inductance	BL	BL	BL	BL	BL
19	Chip resistor	BL	BL	BL	BL	BL
20	Chip capacitor	BL	BL	BL	BL	BL
21	Chip triode	BL	BL	BL	BL	BL
22	Tin solder	BL	BL	BL	BL	-
23	Green PCB board	BL	BL	BL	BL 💿	BL
24	Black plastic button(Tact Switch)	BL	BL	BL	BL	X*

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Seq.	Tracked Dearth(a)	8	Results(mg/kg)					
No.	Tested Part(s)	Cd	Pb	Hg	Cr	Br		
25	Silver metal sheet(Tact Switch)	BL	BL	BL	BL	_		
26	Microphone copper case	BL	BL	BL	BL			
27	Sky blue tube(Battery)	BL	BL	BL	BL	BL		
29	Silver metal sheet(Battery)	BL	BL	BL	BL	e		
30	White washer(Battery)	BL	BL	BL	BL	BL		
31	PCB board(Battery)	BL	BL	BL	BL	<sub>©</sub> X*		
32	Tin solder(Battery)	BL	BL	BL	BL	5 -		
33	Red wire jacket(Battery)	BL	BL	BL	BL	BL		
34	Black wire jacket(Battery)	BL	BL	BL	BL	BL		
35	IC body(Battery)	BL	BL	BL	BL	X*		
36	Tin plated pin(Battery)	BL	BL	BL	BL	-		
37	Blue sleeving(Battery)	BL	BL	BL	BL	BL		
38	Magnetic shielding cover(Horn)	BL	BL	BL	BL	0-		
39	Silver metal shell(Horn)	BL	BL	BL	BL	© -		
40	Tin solder(Horn)	BL	BL	BL	BL	<b>G</b> -		
41	White connecting piece(Horn)	BL	BL	BL	BL	BL		
42	Red wire jacket(Horn)	BL	BL	BL	BL	BL		
43	Black wire jacket(Horn)	BL 💿	BL	BL	BL	BL		
44	Black rubber vibrating film(Horn)	BL	BL	BL	BL	BL		
45	Black globe-roof(Horn)	BL	BL	BL	BL	BL		
46	Red wire jacket(Horn)	BL	BL	BL	BL	BL		
47	Black wire jacket(Horn)	BL	BL	BL	BL	®BL		
48	Black rubber vibrating film(Horn)	BL	BL	BL	BL	BL		
49	Black globe-roof(Horn)	BL	BL	BL	BL	BL		
N	Da Da	ta line		60	c.Č			
50	Black handle(USB plug)	BL	BL	BL	BL	BL		

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Seq.			Re	Results(mg/kg)			
No.	Tested Part(s)	Cd	Pb	Hg	Cr	Br	
51	Metal plug(USB plug)	BL	BL	BL	BL		
52	White plastic plug(USB plug)	BL	BL	BL	BL	X*	
53	Micro metal connector(Micro plug)	BL	BL	BL	X*	-	
54	Black plastic plug(Micro plug)	BL	BL	BL	BL	BL	
55	Metal thimble(Micro plug)	BL	BL	BL	X*	9-	
56	Tin solder(Micro plug)	BL	BL	BL	BL	® -	
57	Black outer wire jacket(Wire rod)	BL	BL	BL	BL	BL	
58	Red wire jacket(Wire rod)	BL	BL	BL	BL	BL	
59	Black wire jacket(Wire rod)	BL	BL	BL	BL	BL	

	B		6	
Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ <x &lt;130+3σ≤OL</x 	BL≤70-3σ <x &lt;130+3σ≤OL</x 	BL≤50-3σ <x &lt;150+3σ≤OL</x 
Pb	mg/kg	BL≤700-3σ <x &lt;1300+3σ≤OL</x 	BL≤700-3σ <x &lt;1300+3σ≤OL</x 	BL≤500-3σ <x &lt;1500+3σ≤OL</x 
Hg	mg/kg	BL≤700-3σ <x &lt;1300+3σ≤OL</x 	BL≤700-3σ <x &lt;1300+3σ≤OL</x 	BL≤500-3σ <x &lt;1500+3σ≤OL</x 
Cr	mg/kg	BL≤700-3σ <x< td=""><td>BL≤700-3σ<x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<></td></x<>	BL≤700-3σ <x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<>	BL≤500-3σ <x< td=""></x<>
Br	mg/kg	BL≤300-3σ <x< td=""><td>G</td><td>BL≤250-3σ<x< td=""></x<></td></x<>	G	BL≤250-3σ <x< td=""></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:

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- 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)					
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 metal Cr<sup>6+</sup>

To -4 14 ()	MDI		<b>Result</b> (s)		T ::4
Test Item(s)	MDL	15	53	55	Limit
Hexavalent Chromium (Cr <sup>6+</sup> )	See note	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
	The sample solution is <the 0,10="" <math="">\mug/cm<sup>2</sup> equivalent comparison standard solution</the>	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 µg/cm <sup>2</sup> and $\leq$ the0,13 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 $\mu$ g/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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#### 2) The Test Results of PBBs & PBDEs

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CI ©			G	- Ci	8	Unit: mg/kg	
Item(s)	MDL	Ċ	Res	ult(s)	C C	Limit	
Item(s)	WIDL	24	® 31	35	52	CLIIIII	
Polybrominated Biphenyls (Pl	BBs)						
Monobromobiphenyl	5	N.D.	N.D.	N.D.	N.D.		
Dibromobiphenyl	5	N.D.	N.D.	N.D.	N.D.		
Tribromobiphenyl	5	N.D.	N.D.	N.D.	N.D.		
Tetrabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.		
Pentabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.		
Hexabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	Total PBBs Content <1000	
Heptabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.®		
Octabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	8	
Nonabromodiphenyl	5	N.D.	N.D.	N.D.	N.D.		
Decabromodiphenyl	5	N.D.	N.D.	N.D.	N.D.		
Total content	/ ®	N.D.	N.D.	N.D.	N.D.		
Polybrominated Diphenylethe	rs (PBDEs)						
Monobromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	S	
Dibromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.		
Tribromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.		
Tetrabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.		
Pentabromodiphenyl ether	s 5	N.D.	N.D.	N.D.	N.D.		
Hexabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	Total PBDEs Content <1000	
Heptabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.		
Octabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.		
Nonabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.		
Decabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.		
Total content		N.D.	N.D.	N.D.	0 N.D.		
Conclusion	/	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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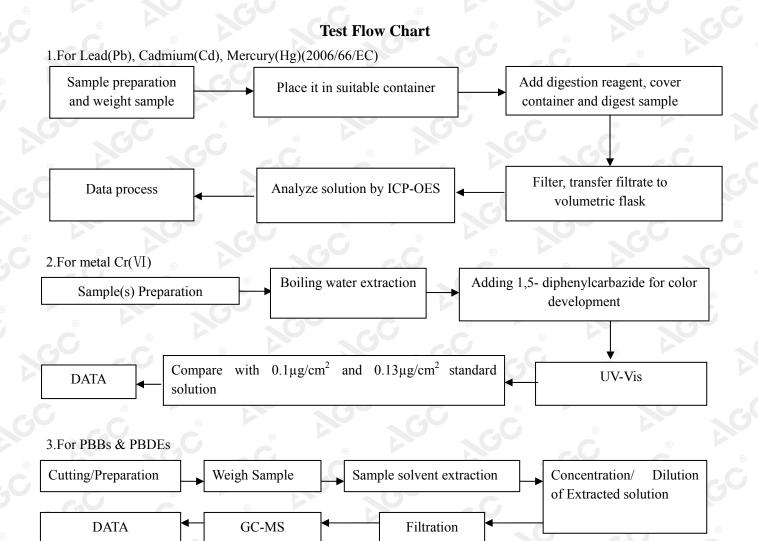
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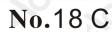
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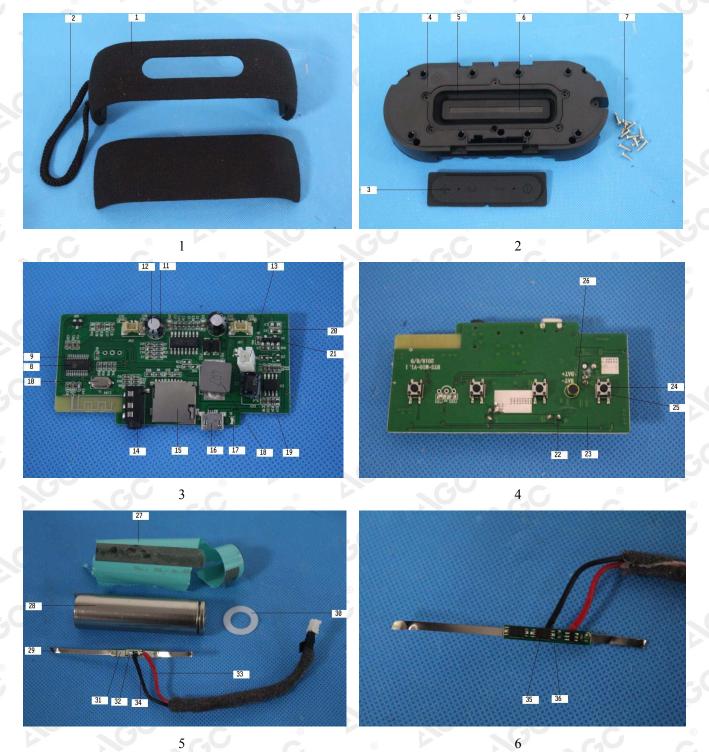


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### The photo of the sample



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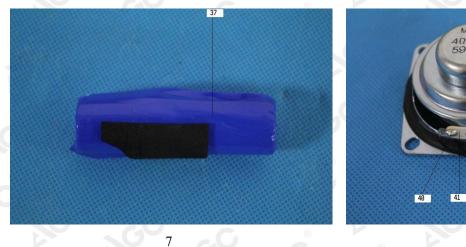
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AGC authenticate the photo only on original report

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