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Applicant: Xindao B.V.

Address: P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands

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

Sample Name: Vibe wireless speaker

Sample Model: P326.63

Sample Received Date: Jun.05, 2017

Testing Period: Jun.05, 2017 to Jun.13, 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: Huisu Luo

Luohuisu

Reviewed by: _

Suhongliang, Leon

Test Engineer Test Team Leader

Jiangyuncheng, Jason

-AG Approved by:

Laboratory Manager



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Test Requested: Conclusion

1.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

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 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 62321-7-2:2017	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

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Test Results:

1.A. EU RoHS Directive 2011/65/EU and its amendment directives on XRF

Seq.	Total Pout(s)	Results(mg/kg)				
No.	Tested Part(s)	Cd	Pb	Hg	Cr	Br
Testation	Silver metal aluminum shell (shell)	BL	BL	BL	BL	-
2	Flesh pink plastic shell (shell)	BL	BL	BL	BL	BL
3	Brown sling (sling)	BL	BL	BL	BL	BL
4	White string (sling)	BL	BL	BL	BL	BL
5	Black screw	BL	BL	BL	BL	The Con
6	Silver screw	BL	BL	BL	BL	-
7	Gray mat	BL	BL	BL	BL	BL
8	Black dust screen (inner shell)	BL	BL	BL	BL	BL
9	Black plastic inner shell (inner shell)	BL	BL	BL	BL	BL
10	Black rubber diaphragm (inner shell)	BL	BL	BL	BL	BL
11	Black coating (inner shell)	BL	BL	BL	BL	BL
12	Metal sheet (inner shell)	BL	BL	BL	BL	- 1117;
13	Chip capacitor (circuit board)	BL	BL	BL	BL	BL
14	LED noumenon (circuit board)	BL	BL	BL	BL	BL
15	Pin (circuit board)	BL	BL	BL	BL	BL
16	Chip resistor (circuit board)	BL	BL	BL	BL	BL
17	IC noumenon (IC) (circuit board)	BL	BL	BL	BL	BL
18	Pin (IC) (circuit board)	BL	BL	BL	BL	estation of
19	Quartz crystal (crystal oscillator) (circuit board)	BL	BL	BL	BL	BL
20	Black plastic base (crystal oscillator) (circuit board)	BL	BL	BL	BL	₿ BL
21	Chip IC (circuit board)	BL	BL	BL	BL	BL
22	White plastic terminal (circuit board)	BL	BL	BL	BL	BL
23	Black plastic seat (audio base) (circuit board)	BL	BL	BL	BL	BL
24	Metal sheet (audio base) (circuit board)	BL	BL	BL	BL	- VE
25	LED noumenon (LED lamp) (circuit board)	BL	BL	BL	BL	X*
26	Pin (LED lamp) (circuit board)	BL	BL	BL	BL	-
27	Solder resist (PCB board) (circuit board)	BL	BL	BL	BL	BL
28	Substrate (PCB board) (circuit board)	BL	BL	BL	BL	X*
29	Copper foil (PCB board) (circuit board)	BL	BL	BL	BL	-
30	Tin solder (PCB board) (circuit board)	BL	BL	BL	BL	O_

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Seq. No.	Tooted Pout(s)	Results(mg/kg)				
	Tested Part(s)	Cd	Pb	Hg	Cr	Br
31	Black bushing (electrolytic capacitor) (circuit board)	BL	BL	BL	BL	BL
32	Black rubber plug (electrolytic capacitor) (circuit board)	BL	BL	BL	BL	BL
33	Aluminum shell (electrolytic capacitor) (circuit board)	BL	BL	BL	BL	- 4
34	Pin (electrolytic capacitor) (circuit board)	BL	BL	BL	BL	G
35	Electrolytic paper (electrolytic capacitor) (circuit board)	BL	BL	BL	BL	BL
36	Cathode foil (electrolytic capacitor) (circuit board)	BL	BL	BL	BL	不整
37	Negative foil (electrolytic capacitor) (circuit board)	BL	BL	BL	BL	an of Global
38	Metal shell (toggle switch) (circuit board)	BL	BL	BL	BL	4
39	Black toggle plastic (toggle switch) (circuit board)	BL	BL	BL	BL	BL
40	Epoxy resin (toggle switch) (circuit board)	BL	BL	BL	BL	BL
41	Card (toggle switch) (circuit board)	BL	BL	BL	BL	- F
42	Metal shell (micro) (circuit board)	BL	BL	BL	BL	_
43	Black joint plastic (micro) (circuit board)	BL	BL	BL	BL	BL
44	Pin (micro) (circuit board)	BL	BL	BL	BL 💀	Juliance -
45	Copper shell (MIC microphone	BL	BL	BL	BL	-
46	Black rubber jacket (microphone)	BL	BL	BL	BL	BL
47	Diaphragm (microphone)	BL	BL	BL	BL	BL
48	White plastic ring (microphone)	BL	BL	BL	BL	BL
49	Black cable (microphone)	BL	BL	BL	BL	BL
50	Wire core (microphone)	BL	BL	BL	BL	estaton -
51	Red cable (microphone)	BL	BL	BL	BL	BL
52	Tin solder (microphone)	BL	BL	BL	BL	ieuce -
53	PCB board (microphone)	BL	BL	BL	BL	X*
54	Brown tape (battery)	BL	BL	BL	BL	BL
55	Electric core (battery)	BL	BL	BL	BL	BL
56	Black foam stick (battery)	BL	BL	BL	BL	BL
57	Tin solder (battery)	BL	BL	BL	BL	dou of Close
58	PCB board (battery)	BL	BL	BL	BL	X*
59	Black cable (battery)	BL	BL	BL	BL	BL
60	Red cable (battery)	BL	BL	BL	BL	BL
61	Wire core (battery)	BL	BL	BL	BL	C.3
62	White plastic terminal (battery)	BL	BL	BL	BL	BL

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Seq.		Results(mg/kg)				F Global Com
No.	Tested Part(s)	Cd	Pb	Hg	Cr	Br
63	Chip IC (battery)	BL	BL	BL	BL	BL
64	Chip resistor (battery)	BL	BL	BL	BL	BL
65	Chip capacitor (battery)	BL	BL	BL	BL	BL
66	White plastic terminal (trumpet)	BL	BL	BL	BL	BL
67	Wire core (trumpet)	BL	BL	BL	BL	
68	Red cable (trumpet)	BL	BL	BL	BL	BL
69	Black cable (trumpet)	BL	BL _	BL	BL	BL
70	Magnetic shielding case (trumpet)	BL	BL	BL	BL	-
71	Metal frame (trumpet)	BL	BL	BL	BL	
72	Tin solder (trumpet)	BL	BL	BL	BL	- //
73	White connecting piece (trumpet)	BL	BL	BL	BL	BL
74	Rivet (trumpet)	BL	BL	BL	BL	O _
75	Magnet (trumpet)	BL	BL	BL	BL	1
76	Elastic wave (trumpet)	BL	BL	BL	BL	BL
77	Enameled coil (trumpet)	BL	BL	BL	BL	-
78	Copper wire (trumpet)	BL	BL	BL	BL	\- (c
79	Paper ring (trumpet)	BL	BL	BL	BL	BL
80	Black rubber diaphragm (trumpet)	BL	BL	BL	BL	BL
81	Globe-roof (trumpet)	BL	BL	BL	BL	BL
Diffe	rence	of Global Co	- C	Artestation 6	20°	testa
82	Black aluminum shell (black speaker)	BL	BL	BL	BL	-
83	Light green plastic shell (black speaker)	BL	BL	BL	BL	BL
84	White plastic shell	BL	BL	BL	BL	BL
85	Light blue plastic shell	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</x 	BL≤70-3σ <x <130+3σ≤OL</x 	BL≤50-3σ <x <150+3σ≤OL</x
Pb	mg/kg	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤500-3σ <x <1500+3σ≤OL</x
Hg	mg/kg	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤500-3σ <x <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>- Filled on the second of the</td><td>BL≤250-3σ<x< td=""></x<></td></x<>	- Filled on the second of the	BL≤250-3σ <x< td=""></x<>

Note: BL= Below Limit

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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:

- 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 PBBs & PBDEs

Unit: mg/kg

The Company	Windshift of the state of the s		Res	ult(s)		T
Item(s)	MDL	25	28	53	58	Limit
Polybrominated Biphenyls (PBB	s)					
Monobromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	- GO
Dibromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	不够
Tetrabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	The station of Globs
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.	- Citte
Nonabromodiphenyl	5	N.D.	N.D.	N.D.	N.D.	NO
Decabromodiphenyl	5 Allestation	N.D.	N.D.	N.D.	N.D.	-711
Total content	1	N.D.	N.D.	N.D.	N.D.	The Completions
Polybrominated Diphenylethers	(PBDEs)					
Monobromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	luas.
Dibromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	TIME ST.
Tetrabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	County of Girth
Pentabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	T . I PPDE
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.	Content <1000
Octabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	Station of Choose
Nonabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	2/2
Total content	1	N.D.	N.D.	N.D.	N.D.	事 玩 。
Conclusion	/	Pass	Pass	Pass	Pass	

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

MDL = Method Detection Limit

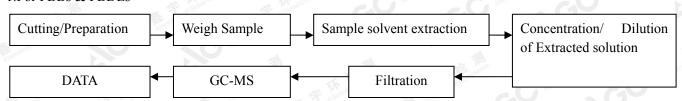
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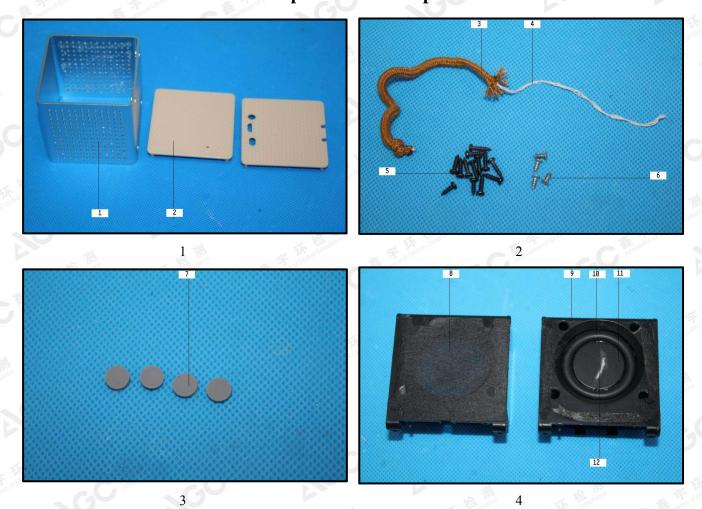
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Test Flow Chart

1.For PBBs & PBDEs



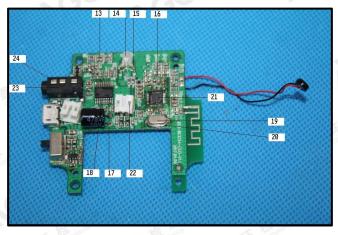
The photo of the sample

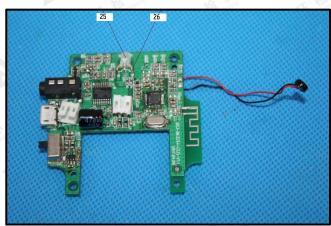


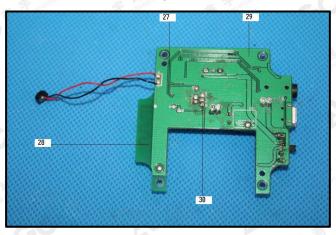
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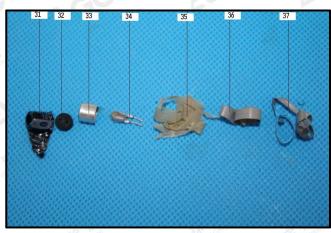


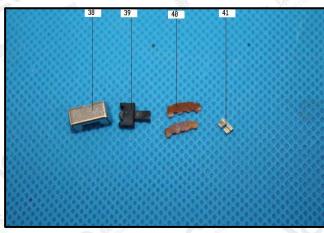
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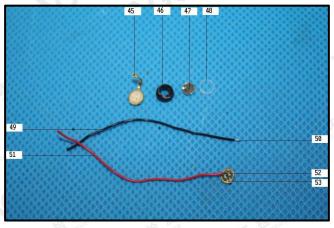




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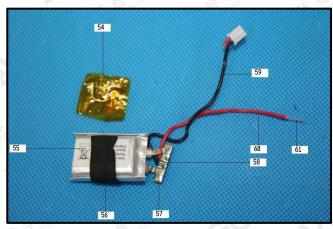
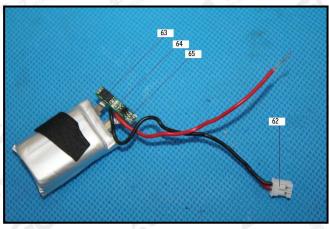
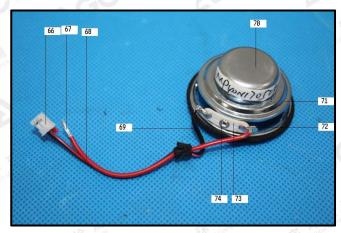


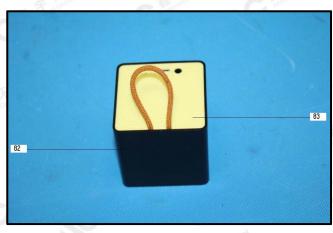
Figure 2 The state of the state





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