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Applicant Address		
Sample Name Style/Item No. Sample Received Date Testing Completed Date	 Foldable bluetooth headphone P326.701 P326.703 P326.705 November 07, 2016 November 14, 2016 	
Test Requested	: As requested by client, to evaluate the compliance of the submitted sample with the Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances electrical and electronic equipment.	
Test Method	 Review was performed for the sample and the related Bill of Material submitted by the Applicant. a) To refer to the standard IEC 62321-3-1:2013: Screening by XRF Spectroscopy. b) Wet chemical test to refer to IEC 62321-5: 2013, determine the Cadmium, Lead content by ICP-OES. to refer to IEC 62321-4: 2013, determine the Mercury content by ICP-OES. to refer to IEC 62321:2008 Ed.1 & IEC 62321-7-1:2015, determine the Hexavalent Chromium content by UV-VIS. to refer to IEC 62321-6:2015, determine the Polybrominated Biphenyls and Polybrominated Diphenyl Ethers by GC-MS. 	0
Test Results	: Please refer to next page (s).	A BEEN





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Conclusion:

Basing on the test results obtained from the homogenous materials, the submitted sample **COMPLIES** with the requirements stated in the Annex II of RoHS Directive 2011/65/EU.

Prepared by:

Kira Fu **Report Engineer**

Reviewed by:

Carrie Zhang Supervisor



Signed for and on behalf of



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Test Results:

No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Remark	
1	Blue fabric	Pb	BL			
		Cd	BL			
		Hg	BL	NA	Non comment	
		Cr	BL			
		Br	BL BL			
		Pb	BL		Non comment	
		Cd	BL			
2	Blue soft plastic	Hg	BL	NA		
		Cr	BL			
		Br	BL			
		Pb	BL		Non comment	
		Cd	BL			
3	Blue hard plastic	Hg	BL +	NA		
		Cr	BL			
		Br	BL			
	White fabric	Pb	BL-		As declared by client, the tested material is only contained in the sample item	
		Cd	BL			
4		Hg	BL	NA		
		Cr	BL			
		Br	BL		Headset(white)	
5	White soft plastic	Pb	BL		As declared by client, the tested material is only contained in the sample item	
		Cd	BL			
		Hg	BL	NA		
		Cr	BL			
		Br	BL		Headset(white)	
6	White hard plastic	Pb	BL		As declared by	
		Cd	BL		client, the tested	
		Hg	BL	NA	material is only contained in the	
		Cr	BL		sample item	
		Br	BL		Headset(white)	



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- Remark: (1) ① Results are obtained by XRF for primary screening, and further wet chemical testing by ICP-OES / AAS (for Cd, Pb, Hg), UV-VIS (for Cr(VI)) and GC/MS (for PBBs, PBDEs) is recommended to be performed, if an inconclusive result was found (as "X" in below table) (unit: mg/kg).
 - ② OL = Over Limit, BL = Below Limit, X = Inconclusive, NA= Not Applicable.
 - ③ The XRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.

Element	Polymer	Metal	Composite Materials		
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \\ \leq OL$	BL ≤(70-3 <i>σ</i>)< X <(130+3 <i>σ</i>) ≤ OL	LOD < X <(150+3 ♂)≤ OL		
Pb	BL ≤(700-3 σ)< X <(1300+3 σ)≤ OL	BL ≤(700-3 σ) < X <(1300+3 σ) ≤ OL	BL ≤(500-3 σ)< X <(1500+3 σ)≤ OL		
Hg	BL ≤(700-3 σ)< X <(1300+3 σ)≤ OL	BL ≤(700-3 σ)< X <(1300+3 σ)≤ OL	BL ≤(500-3 σ)< X <(1500+3 σ)≤ OL		
Br	BL ≤ (300-3 σ)< X	NA	BL ≤ (250-3 <i>σ</i>)< X		
Cr -	BL ≤ (700-3 σ)< X	BL ≤ (700-3 <i>σ</i>)< X	BL ≤ (500-3 <i>σ</i>)< X		

(2) ① mg/kg = ppm = 0.0001%, ND = Not Detected (Less than reporting limit value.).
② Unit, Reporting Limit (RL) and Requirement limit in wet chemical test.

Test items	Pb	Cd	Hg	Cr ⁶⁺ (Non-metal)	Cr ⁶⁺ (metal)	PBBs(single)	PBDEs(single)
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RL	2	2	2	2	2	5	5
Requirement Limit	1000	100	1000	1000	Negative	1000	1000

③ According to IEC 62321:2008 & IEC 62321-7-1:2015, result on Cr⁶⁺ for metal sample is shown as Positive/Negative.

Negative = Absence of Cr^{6+} coating, Positive = Presence of Cr^{6+} coating.

- Storage condition and production date of the tested sample are unavailable and thus results of Cr^{6+} represent status of the sample at the time of testing.
- ④ According to IEC 62321-3-1:2013, this column represents the results of wet chem test. And "NA" means no need to perform wet chem test, when the XRF screening results are qualified.
- (3) The tested parts were designated by client.



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Photo Appendix







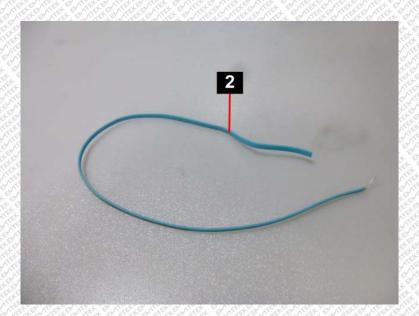
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Photo Appendix









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Photo Appendix





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ANNEX

EXEMPTION LIST

- Mercury in single capped (compact) fluorescent lamps not exceeding (per burner):
- For general lighting purposes < 30W: 5mg (expires on 31 December 2011; 3.5mg may be used per burner after 31 December 2011 until 31 December 2012; 2.5mg shall be used per burner after 31 December 2012) 1(a)
- For general lighting purposes ≥ 30W and <50W: 5mg (expires on 31 December 2011, 3.5mg may be used per burner after 31 1(b) December 2011)
- For general lighting purposes ≥ 50W and <150W: 5mg 1(c)
- 1(d) For general lighting purposes \geq 150W: 15mg
- For general lighting purposes with circular or square structural shape and tube diameter ≤17mm (no limitation of use until 31 1(e) December 2011; 7mg may be used per burner after 31 December 2011)
- For special purposes: 5mg 1(f)
- For general lighting purposes < 30 W with a lifetime equal or above 20 000 h: 3,5 mg (Expires on 31 December 2017) 1(g)
- Mercury in double-capped linear fluorescent lamps for general lighting purples not exceeding (per lamp): 2(a)
- 2(a)(1) Tri-band phosphor with normal lifetime and a tube diameter < 9mm (e.g. T2): 5mg (expires on 31 December 2011; 4mg may be used per lamp after 31 December 2011)
- 2(a)(2) Tri-band phosphor with normal lifetime and a tube diameter ≥ 9mm and ≤ 17mm (e.g. T5): 5mg (expires on 31 December 2011; 3mg may be used per lamp after 31 December 2011)
- 2(a)(3) Tri-band phosphor with normal lifetime and a tube diameter > 17mm and < 28mm (e.g. T8): 5mg (expires on 31 December 2011; 3.5mg may be used per lamp after 31 December 2011)
- Tri-band phosphor with normal lifetime and a tube diameter > 28mm (e.g. T12): 5mg (expires on 31 December 2012; 3.5mg 2(a)(4) may be used per lamp after 31 December 2012)
- Tri-band phosphor with long lifetime (≥ 25000h): 8mg (expires on 31 December 2011; 5mg may be used per lamp after 31 2(a)(5) December 2011)
- 2(b) Mercury in other fluorescent lamps not exceeding (per lamp):
- 2(b)(2) Non-linear halophosphate lamps (all diameters): 15mg (expires on 13 April 2016)
- Non-linear tri-band phosphor lamps with tube diameter > 17mm (e.g. T9) (no limitation of use until 31 December 2011; 15mg 2(b)(3) may be used per lamp after 31 December 2011)
- 2(b)(4) Lamps for other general lighting and special purposes (e.g. induction lamps) (no limitation of use until 31 December 2011; 15mg may be used per lamp after 31 December 2011)
- 3 Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp):
- Short length (≤ 500mm) (No limitation of use until 31 December 2011; 3.5mg may be used per lamp after 31 December 2011) 3(a)
- Medium length (> 500m and ≤ 1500mm) (No limitation of use until 31 December 2011; 5mg may be used per lamp after 31 3(b) December 2011)
- Long length (> 1500mm) (No limitation of use until 31 December 2011; 13mg may be used per lamp after 31 December 2011) 3(c) Mercury in other low pressure discharge lamps (per lamp) (no limitation of use until 31 December 2011; 15mg may be used per 4(a)
- lamp after 31 December 2011) Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with 4(b) improved colour rendering index Ra > 60:
- 4(b)-I $P \le 155W$ (no limitation of use until 31 December 2011; 40mg may be used per burner after 31 December 2011)
- 155W < P ≤ 405W (no limitation of use until 31 December 2011; 40mg may be used per burner after 31 December 2011) 4(b)-11

4(b)-III P > 405W (no limitation of use until 31 December 2011; 40mg may be used per burner after 31 December 2011)

- 4(c) Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner):
- P≤ 155W (no limitation of use until 31 December 2011; 25mg may be used per burner after 31 December 2011) 4(c)-l
- 4(c)-II 155W < P ≤405W (no limitation of use until 31 December 2011; 30mg may be used per burner after 31 December 2011)
- 4(c)-III P > 405W (no limitation of use until 31 December 2011; 40mg may be used per burner after 31 December 2011)
- Mercury in High Pressure Mercury (vapour) lamps (HPMV) (expires on 13 April 2015) 4(d)
- Mercury in metal halide lamps (MH)
- 4(e)
- 4(f) Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex
- Mercury in hand crafted luminous discharge tubes used for signs, decorative or architectural and specialist lighting and light-4(g) artwork, where the mercury content shall be limited as follows: (Expires on 31 December 2018)
 - (a) 20 mg per electrode pair + 0,3 mg per tube length in cm, but not more than 80 mg, for outdoor applications and indoor applications exposed to temperatures below 20 ° C;
 - (b) 15 mg per electrode pair + 0,24 mg per tube length in cm, but not more than 80 mg, for all other indoor applications.





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ANNEX

EXEMPTION LIST

Continued

- 5(a) Lead in glass of cathode ray tubes
- 5(b) Lead in glass of fluorescent tubes not exceeding 0.2% by weight
- 6(a) Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35% lead by weight
- 6(b) Lead as an alloying element in aluminium containing up to 0.4% lead by weight
- 6(c) Copper alloy containing up to 4% lead by weight.
- 7(a) Lead in high melting temperature type solders (i.e. lead based alloys containing 85% by weight or more lead)
- 7(b) Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission, and network management for telecommunications
- 7(c)-1 Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound
- 7(c)-II Lead in dielectric ceramic in capacitors for a rated voltage of 125V AC or 250V DC or higher
- 7(c)-III Lead in dielectric ceramic in capacitors for a rated voltage of less than 125V AC or 250V DC (expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013).
- 7(c)-IV Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors
- 8(a) Cadmium and its compounds in one shot pellet type thermal cut-offs (expires on 1 January 2012 and after that date may be used in spare parts for EEE placed on the market before 1 January 2012)
- 8(b) Cadmium and its compounds in electrical contacts
- 9 Hexavalent chromium as an anti-corrosion agent of the carbon steel cooling system in absorption refrigerators up to 0.75% by weight in the cooling solution
- 9(b) Lead in bearing shells and bushes for refrigerant-containing compressors for heating, ventilation, air conditioning and refrigeration (HVACR) applications
- 11(b) Lead used in other than C-press compliant pin connector systems (expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013)
- 13(a) Lead in white glasses used for optical applications
- 13(b) Cadmium and lead in filter glasses and glasses used for reflectance standards
- 14 Lead in solders consisting of more than two elements for the connection between the pins and the package of microprocessors with a lead content of more than 80% and less than 85% by weight (expires on 1 January 2011 and after that date may be used in spare parts for EEE placed on the market before 1 January 2011)
- 15 Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit Flip Chip packages
- 17 Lead halide as radiant agent in High Intensity Discharge (HID) lamps used for professional reprography applications
- 18(b) Lead as activator in the fluorescent powder (1% lead by weight or less) of discharge lamps when used as sun tanning lamps containing phosphors such as BSP (BaSi₂O₅:Pb)
- 21 Lead and cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glass
- 24 Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors
- Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring Lead bound in crystal glass as defined in Annex 1 (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC
- 30 Cadmium alloys as electrical/mechanical solder joints to electrical conductors located directly on the voice coil in transducers used in high-powered loudspeakers with sound pressure levels of 100 dB (A) and more
- 31 Lead in soldering materials in mercury free flat fluorescent lamps (which e.g. are used for liquid crystal displays, design or industrial lighting)
- 32 Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes
- 33 Lead in solders for the soldering of thin copper wires of 100 µm diameter and less in power transformers
- 34 Lead in cermet-based trimmer potentiometer elements
- 37 Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body
- 38 Cadmium and cadmium oxide in thick film pastes used on aluminium bonded beryllium oxide
- 39 Cadmium in colour converting II-VI LEDs (< 10 µg Cd per mm² of light- emitting area) for use in solid state illumination or display systems (expires on 1 July 2014)
- 41 Lead in solders and termination finishes of electrical and electronic components and finishes of printed circuit boards used in ignition modules and other electrical and electronic engine control systems, which for technical reasons must be mounted directly on or in the crankcase or cylinder of hand-held combustion engines (classes SH:1, SH:2, SH:3 of Directive 97/68/EC of the European Parliament and of the Council (2)) (Expires on 31 December 2018)