



Test Report

Report No.: PTC-HX-04161101902ENA

Date: Nov. 30, 2016

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Applicant:

Address:

The following merchandise was (were) submitted and identified by client as:

Sample Name: Wireless sport earbuds

Sample Model: P326.23X

Sample Received Date: Nov. 25, 2016

Completed Date: Nov. 30, 2016

Test Requested and Conclusion(s):

No.	Test Sample	Standard and Requirement	Conclusion(s)
1	Submitted sample	RoHS Directive 2011/65/EU	PASS

Test Result(s): Please refer to next page(s).

Signed for and on Behalf of PTC



Havin Zhou / P & C Department Manager

DongGuan Precise Testing and Certification Corp. Ltd.

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Test Result(s):

RoHS - Lead (Pb)/Cadmium(Cd)/Mercury(Hg)/Hexavalent Chromium(Cr⁶⁺)/PBBs/PBDEs

Method: IEC 62321: 2008, analyzed by EDXRF & AAS & ICP-AES & GC-MS & UV-Vis.

Material No.	Substances	EDXRF Result *	Chemical Result #(mg/kg)	Conclusion
1	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
2	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
3	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
4	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
5	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS

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Material No.	Substances	EDXRF Result *	Chemical Result #(mg/kg)	Conclusion
6	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
7	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
8	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
9	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
10	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--

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Material No.	Substances	EDXRF Result *	Chemical Result #(mg/kg)	Conclusion
11	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
12	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
13	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	IN	N.D.	PASS
	PBDEs		N.D.	PASS
14	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
15	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS

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Material No.	Substances	EDXRF Result *	Chemical Result #(mg/kg)	Conclusion
16	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
17	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
18	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
19	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
20	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS

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21	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
22	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
23	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
24	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	IN	N.D.	PASS
	PBDEs		N.D.	PASS
25	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--

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Material No.	Substances	EDXRF Result *	Chemical Result #(mg/kg)	Conclusion
26	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
27	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
28	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
29	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
30	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS

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Material No.	Substances	EDXRF Result *	Chemical Result #(mg/kg)	Conclusion
31	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
32	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
33	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
34	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
35	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--

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Material No.	Substances	EDXRF Result *	Chemical Result #(mg/kg)	Conclusion
36	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
37	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
38	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
39	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
40	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS

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Material No.	Substances	EDXRF Result *	Chemical Result #(mg/kg)	Conclusion
41	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
42	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
43	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
44	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
45	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--

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46	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (<RL).
 3. RL(Reporting Limit): 5 mg/kg for Pb/ Cd/ Hg/ Cr⁶⁺(Nonmetal material); 5 mg/kg for PBBs & PBDEs.
 4. Negative = Absence of Cr⁶⁺.
 5. Positive = Presence of Cr⁶⁺: the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.
 6. "*" = It is the result on total Cr and Br while test substances are Cr⁶⁺ and PBBs & PBDEs.
 7. "#" = Result are obtained by EDXRF for primary screening, if the result exceeds the below limit (BL), and further chemical testing.
 8. "E" = This material is tin-lead solder or copper alloy proved by client, lead in tin-lead solder or copper alloy is exempted on the requirements of RoHS directive(EU Directive 2002/95/EC).

Screening limits in mg/kg for regulated elements in various matrices

Elements	Polymer	Metal	Composite Materials
Pb	BL≤(700-3σ)<X<(1300+3σ)≤ OL	BL≤(700-3σ)<X<(1300+3σ)≤ OL	BL≤(500-3σ)<X<(1500+3σ)≤ OL
Cd	BL≤(70-3σ)<X<(130+3σ)≤ OL	BL≤(70-3σ)<X<(130+3σ)≤ OL	LOD<X<(150+3σ)≤OL
Hg	BL≤(700-3σ)<X<(1300+3σ)≤ OL	BL≤(700-3σ)<X<(1300+3σ)≤ OL	BL≤(500-3σ)<X<(1500+3σ)≤ OL
Cr	BL≤(700-3σ)<X	BL≤(700-3σ)<X	BL≤(500-3σ)<X
Br	BL≤(300-3σ)<X	--	BL≤(250-3σ)<X

BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection

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Test Material List

The following materials apply only to the samples submitted for chemical testing.

Material No.	Description	Location
1	Black soft plastic	Ear hook (black)
2	Yellow soft plastic	Ear hook (yellow)
3	Bright black plastic	Earphone shell (two)
4	Black plastic	Earphone shell、switch、key (two)
5	Black soft plastic	Earbuds (two)
6	Black soft plastic	USB socket scarfskin (two)
7	Black plastic	Earphone wire scarfskin (black)
8	Yellow plastic	Earphone wire scarfskin (yellow)
9	White paper with black printing	Earphone wire label (two)
10	Silvery metal	USB wire both ends socket shell (two)
11	Black plastic	USB wire both ends socket trailer card (two)
12	Black plastic	USB wire scarfskin (two)
13	White plastic	USB socket inner (two)
14	Silvery metal	USB wire both ends socket pin (two)
15	Black plastic	USB socket inner (two)
16	Black plastic	USB wire inner scarfskin (two)
17	Red plastic	USB wire inner scarfskin (two)
18	Copper metal	USB wire inner core (two)
19	Silvery metal net	Earphone inner shell (two)
20	Black sponge with glue	Inner horn (two)
21	Silvery metal	Inner horn shell (two)
22	Transparent plastic	Inner horn dust cover (two)
23	Copper metal	Inner horn voice coil (two)
24	White epoxy resin plate with green coating	Inner PCB board (two)
25	Black ceramic	Inner PCB board integrated circuit (two)
26	Copper metal	Inner PCB board (two)
27	Yellow adhesive tape	Inner PCB board key (two)
28	Silvery metal	Inner PCB board key (two)
29	Silvery metal	Inner PCB board crystal oscillator (two)

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31	Silvery metal	Inner PCB board key base (two)
32	White plastic	Inner PCB board key base (two)
33	Silvery metal	Inner PCB board USB socket shell (two)
34	Black plastic	Inner PCB board USB socket inner (two)
35	Silvery metal	Inner PCB board USB socket pin (two)
36	Beige adhesive tape	Inner electric wire (two)
37	Black plastic	Inner electric wire scarfskin (two)
38	Red plastic	Inner electric wire scarfskin (two)
39	Silvery metal	Inner electric wire core (two)
40	Brown adhesive tape	Inner battery (two)
41	Silvery aluminum foil with black printing	Inner battery scarfskin (two)
42	Red varnished wire	Earphone wire core (two)
43	Blue varnished wire	Earphone wire core (two)
44	Green varnished wire	Earphone wire core (two)
45	Copper varnished wire	Earphone wire core (two)
46	Silvery metal	Square head bolts (two)

Photo(s) of Sample:



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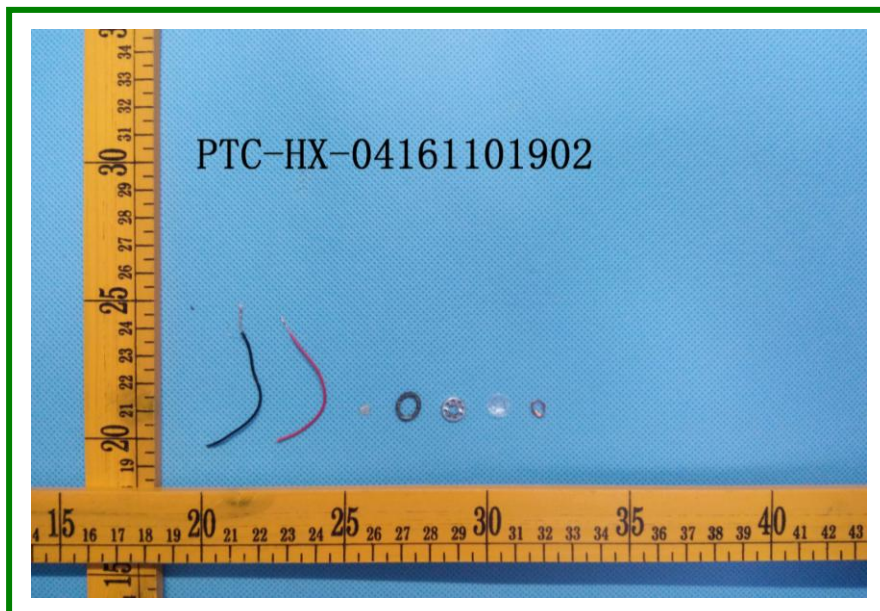


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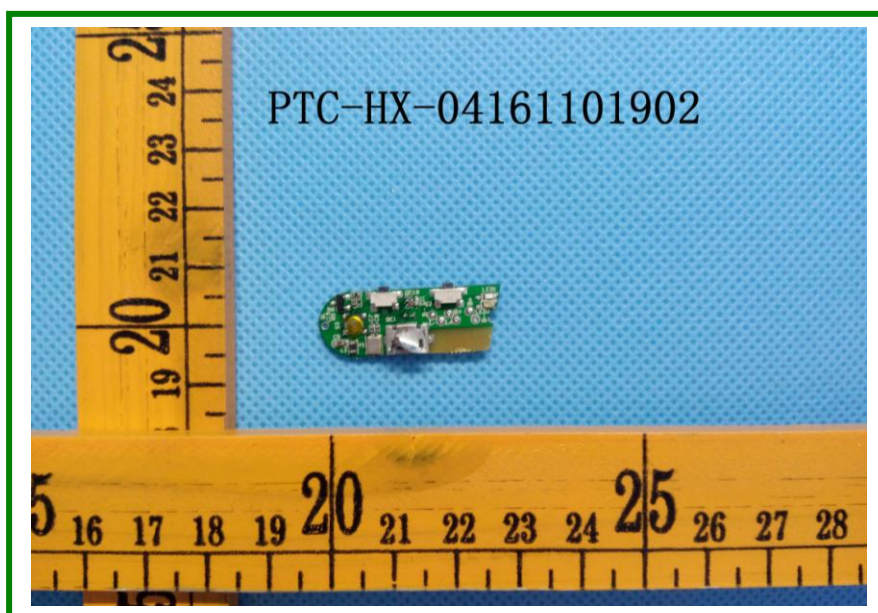
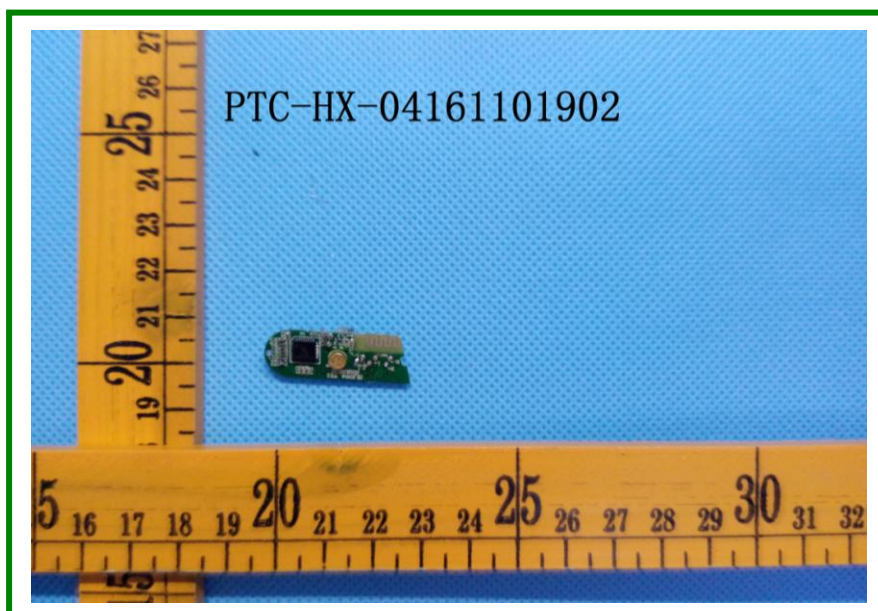


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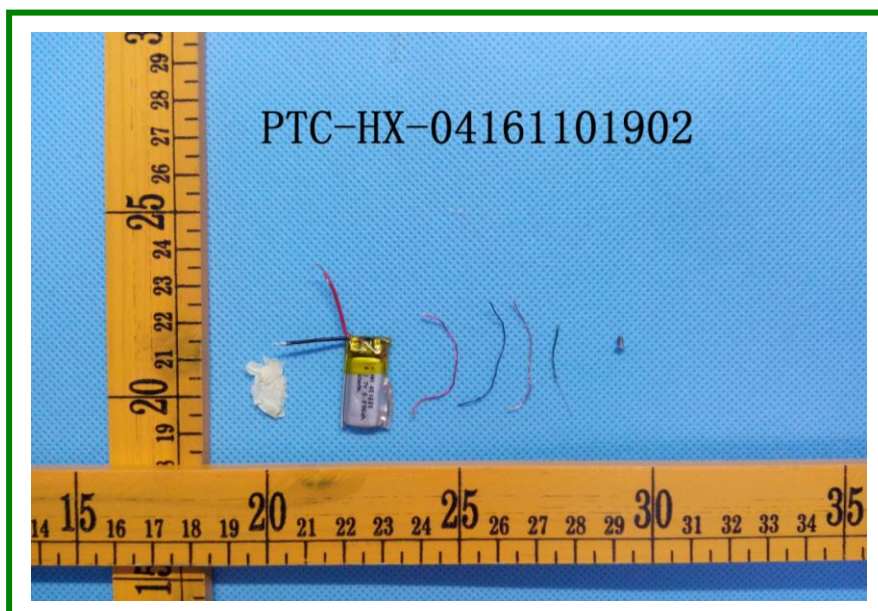


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