



# Test Report

**Applicant's name** .....: Shenzhen Yongjiu Precision Electronics Co.,Ltd.  
**Address**.....: 7/F, Sunjet Industrial Park, No.5 - 1,Dawangshan Industrial Rd 2nd, Shajing, Bao'an, Shenzhen, 518104, China  
**Manufacturer** .....: Shenzhen Yongjiu Precision Electronics Co.,Ltd.  
**Address**.....: 7/F, Sunjet Industrial Park, No.5 - 1,Dawangshan Industrial Rd 2nd, Shajing, Bao'an, Shenzhen, 518104, China  
**Trade Mark**.....: N/A  
**Test item description** .....: Wall Charger  
**Model/Type reference**.....: YJ-N24, OPP143, OPP153, OPP063  
**Date of receipt of test item**.....: Feb. 21, 2023  
**Date(s) of performance of tests**.....: Feb. 21, 2023 - Feb. 27, 2023  
**Date of report**.....: Feb. 27, 2023

**Test Requested:**

1. As specified by client ,to screen Lead(Pb),Cadmium(Cd),Mercury(Hg), Chromium(Cr)and Bromine(Br)in the submitted sample(s)by XRF.
2. As specified by client ,when screening results exceed the XRF screening limit in IEC62321:2013 Edition 1.0,further use of wet chemical methods are required to test Lead(Pb),Cadmium(Cd),Mercury(Hg),Hexavalent Chromium(Cr(VI)),Polybrominated Biphenyls(PBBs),Polybrominated Diphenyl Ethers(PBDEs),Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP) ,Butyl benzyl phthalate (BBP), Dibutylphthalate (DBP) ,and Diisobutyl phthalate (DIBP) in the submitted sample(s).

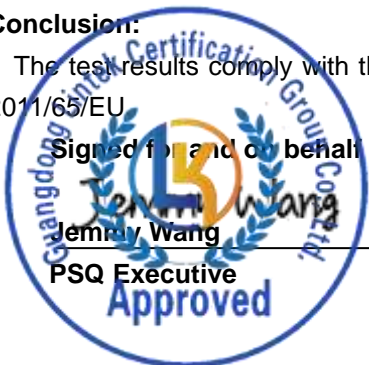
**Test Results:** Pass

**Conclusion:**

The test results comply with the limits of RoHS 2.0 Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Signed for and on behalf of Lintek.

Jemmy Wang  
 Jemmy Wang  
 PSQ Executive  
 Approved





# Test Report

No.	Sample Description	Test item	XRF Result	ChemicalTest (mg/kg)	Conclusion
1	Plastic enclosure	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI))	BL	--	
		Br(PBBs&PBDEs)	BL	--	
		Phthalate(DBP\BBP \DEHP\DIBP)	--	N.D.	
2	Plastic on plug	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI))	BL	--	
		Br(PBBs&PBDEs)	BL	--	
		Phthalate(DBP\BBP \DEHP\DIBP)	--	N.D.	
3	Metal of plug	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI))	BL	--	
		Br(PBBs&PBDEs)	N.D.	--	
		Phthalate(DBP\BBP \DEHP\DIBP)	--	N.D.	
4	Metal of wire	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI))	BL	--	
		Br(PBBs&PBDEs)	N.D.	--	
		Phthalate(DBP\BBP \DEHP\DIBP)	--	N.D.	

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5	Plastic of wire	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI))	BL	--	
		Br(PBBs&PBDEs)	BL	--	
		Phthalate(DBP\BBP \DEHP\DIBP)	--	N.D.	
6	Tape of transformer	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI))	BL	--	
		Br(PBBs&PBDEs)	BL	--	
		Phthalate(DBP\BBP \DEHP\DIBP)	--	N.D.	
7	Wire of transformer	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI))	BL	--	
		Br(PBBs&PBDEs)	BL	--	
		Phthalate(DBP\BBP \DEHP\DIBP)	--	N.D.	
8	Core of transformer	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI))	BL	--	
		Br(PBBs&PBDEs)	BL	--	
		Phthalate(DBP\BBP \DEHP\DIBP)	--	N.D.	

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9	Metal pin of transformer	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI))	BL	--	
		Br(PBBs&PBDEs)	BL	--	
		Phthalate(DBP\BBP \DEHP\DIBP)	--	N.D.	
10	Metal wire of transformer	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI))	BL	--	
		Br(PBBs&PBDEs)	N.D.	--	
		Phthalate(DBP\BBP \DEHP\DIBP)	--	N.D.	
11	Bobbin of transformer	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI))	BL	--	
		Br(PBBs&PBDEs)	BL	--	
		Phthalate(DBP\BBP \DEHP\DIBP)	--	N.D.	
12	Capacitance	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI))	BL	--	
		Br(PBBs&PBDEs)	BL	--	
		Phthalate(DBP\BBP \DEHP\DIBP)	--	N.D.	

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13	PCB	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI))	BL	--	
		Br(PBBs&PBDEs)	BL	--	
		Phthalate(DBP\BBP \DEHP\DIBP)	--	N.D.	
14	Fuse	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI))	BL	--	
		Br(PBBs&PBDEs)	BL	--	
		Phthalate(DBP\BBP \DEHP\DIBP)	--	N.D.	
15	Metal of terminal	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI))	BL	--	
		Br(PBBs&PBDEs)	N.D.	--	
		Phthalate(DBP\BBP \DEHP\DIBP)	--	N.D.	
16	Plastic of terminal	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI))	BL	--	
		Br(PBBs&PBDEs)	BL	--	
		Phthalate(DBP\BBP \DEHP\DIBP)	--	N.D.	

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17	Solder tin	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI))	BL	--	
		Br(PBBs&PBDEs)	BL	--	
		Phthalate(DBP\BBP \DEHP\DIBP)	--	N.D.	
18	Chip	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI))	BL	--	
		Br(PBBs&PBDEs)	BL	--	
		Phthalate(DBP\BBP \DEHP\DIBP)	--	N.D.	
19	Wire of Inductance	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI))	BL	--	
		Br(PBBs&PBDEs)	BL	--	
		Phthalate(DBP\BBP \DEHP\DIBP)	--	N.D.	
20	Core of Inductance	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI))	BL	--	
		Br(PBBs&PBDEs)	BL	--	
		Phthalate(DBP\BBP \DEHP\DIBP)	--	N.D.	

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21	Internal plastic	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI))	BL	--	
		Br(PBBs&PBDEs)	BL	--	
		Phthalate(DBP\BBP \DEHP\DIBP)	--	N.D.	
22	Glue	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI))	BL	--	
		Br(PBBs&PBDEs)	BL	--	
		Phthalate(DBP\BBP \DEHP\DIBP)	--	N.D.	

1. It is the result on total Br while test item on restricted substances in PBBs/PBDEs. It is the result on total Cr while test item on restricted substances is Cr(VI).
2. Screening test by XRF spectroscopy XRF screening limits in mg/kg for regulated elements according to IEC62321:2013 Ed.1 Sec.6 & Annex D.

Element	Polymer Material	Metallic Material	Composite Material
Pb	$BL \leq 700 - 3\sigma \leq X < 1300 + 3\sigma$ $\leq OL$	$BL \leq 700 - 3\sigma \leq X < 1300 + 3\sigma$ $\leq OL$	$BL \leq 500 - 3\sigma \leq X < 1500 + 3\sigma$ $\leq OL$
Cd	$BL \leq 70 - 3\sigma \leq X < 130 + 3\sigma$ $\leq OL$	$BL \leq 70 - 3\sigma \leq X < 130 + 3\sigma$ $\leq OL$	$LOD < X < 150 + 3\sigma \leq OL$
Hg	$BL \leq 700 - 3\sigma \leq X < 1300 + 3\sigma$ $\leq OL$	$BL \leq 700 - 3\sigma \leq X < 1300 + 3\sigma$ $\leq OL$	$BL \leq 500 - 3\sigma \leq X < 1500 + 3\sigma$ $\leq OL$
Cr	$BL \leq 700 - 3\sigma < X$	$BL \leq 700 - 3\sigma < X$	$BL \leq 500 - 3\sigma < X$
Br	$BL \leq 300 - 3\sigma < X$	--	$BL \leq 250 - 3\sigma < X$

XRF detection limits in mg/kg for regulated elements in various material

Element	Polymer Material	Metallic Material	Composite Material
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# Test Report

Pb	10	50	50
Cd	10	50	50
Hg	10	50	50
Cr	10	50	50
Br	10	50	50

- Note:**
- BL = Under the XRF screening limit
  - OL = Future chemical test will be conducted while result is above the screening limit
  - X = The symbol "X" marks the region where further investigation is necessary
  - 3 $\sigma$  = The reproducibility of analytical instruments
  - LOD = Detection limit

### 3. Wet chemical test

Test Item(s)	Test Method	Test Equipment	MDL
Pb	IEC62321-5:2013	ICP-AES	2
Cd	IEC62321-5:2013	ICP-AES	2
Hg	IEC62321-4:2013	ICP-AES	2
Cr(VI)	IEC62321-7-1:2015 IEC62321-7-2:2017	UV-Vis	2
PBB	IEC62321-6:2015	GC-MS	5
PBDE	IEC62321-6:2015	GC-MS	5
Dibutyl Phthalate (DBP)	IEC62321-8:2017	GC-MS	30
Benzylbutyl Phthalate (BBP)	IEC62321-8:2017	GC-MS	30
Di-(2-ethylhexyl) Phthalate (DEHP)	IEC62321-8:2017	GC-MS	30

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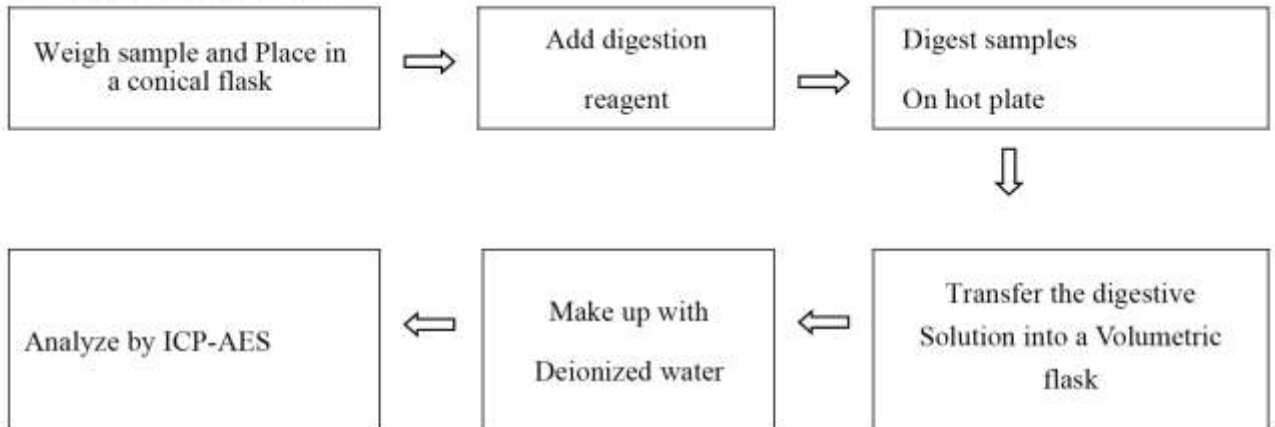
Diisobutylthalate (DIBP)	IEC62321-8:2017	GC-MS	30
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- Note:**
- mg/kg= ppm=0.0001%
  - ND=Not Detected(<MDL)
  - MDL = Method Detection Limit
  - = No Testing
  - Negative = Absence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is less than 0.02 mg/kg with 50cm<sup>2</sup> sample surface
  - \*=According to 2011/65/EU Annex, point 6-Lead as an alloying element is steel containing up to 0.35% lead by weight, aluminum containing up to 0.4% lead by weight and as a copper alloy, containing up to 4% lead by weight can be exempted.

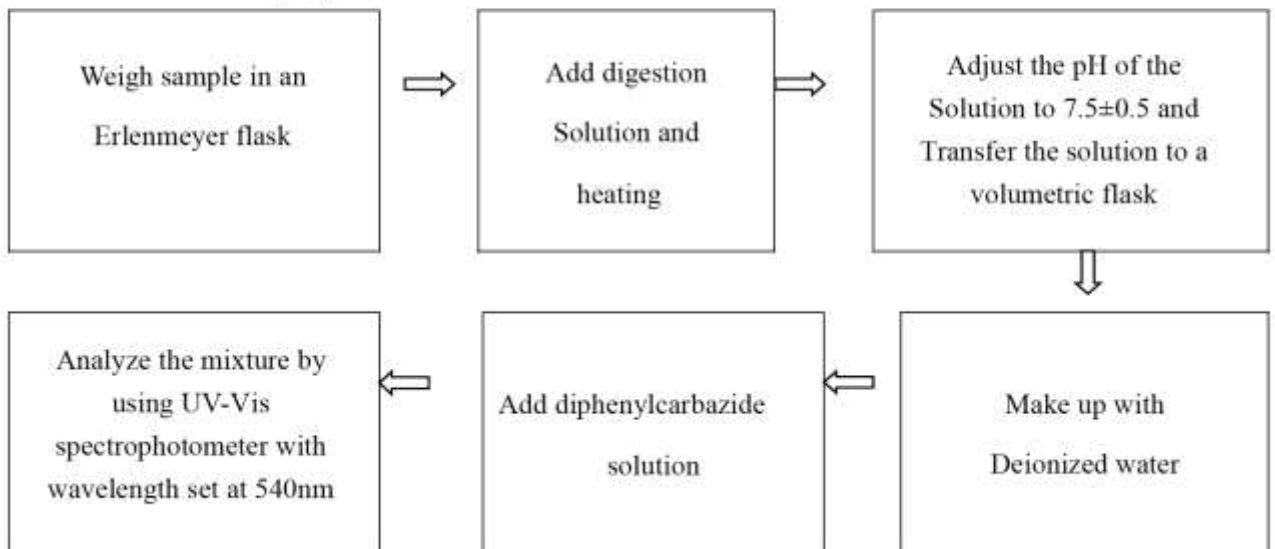


**Test Process:**

1. Test for Cd/Pb Content

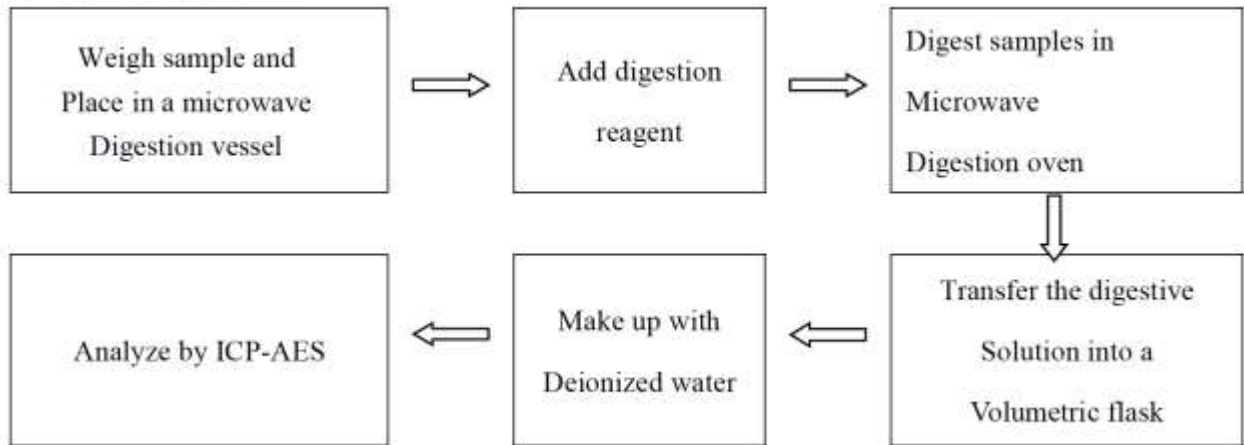


2. Test for Chromium(VI)Content

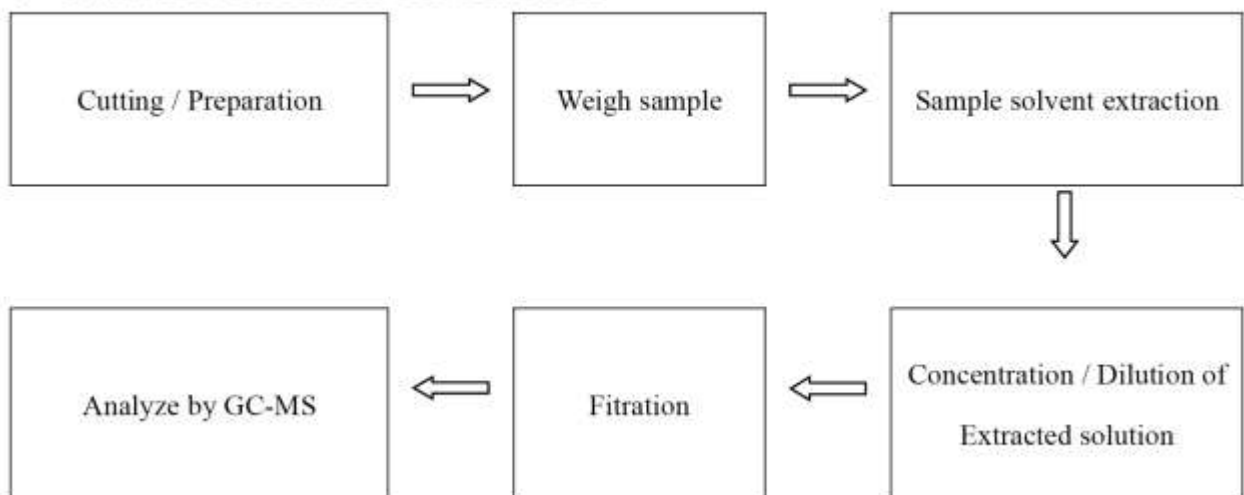




3. Test for Hg Contents



4. Test for PBBs/PBDES/DBP/BBP/DEHP/DIBP





**Photograph of Sample:**



Fig.1



Fig.2

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Fig.3

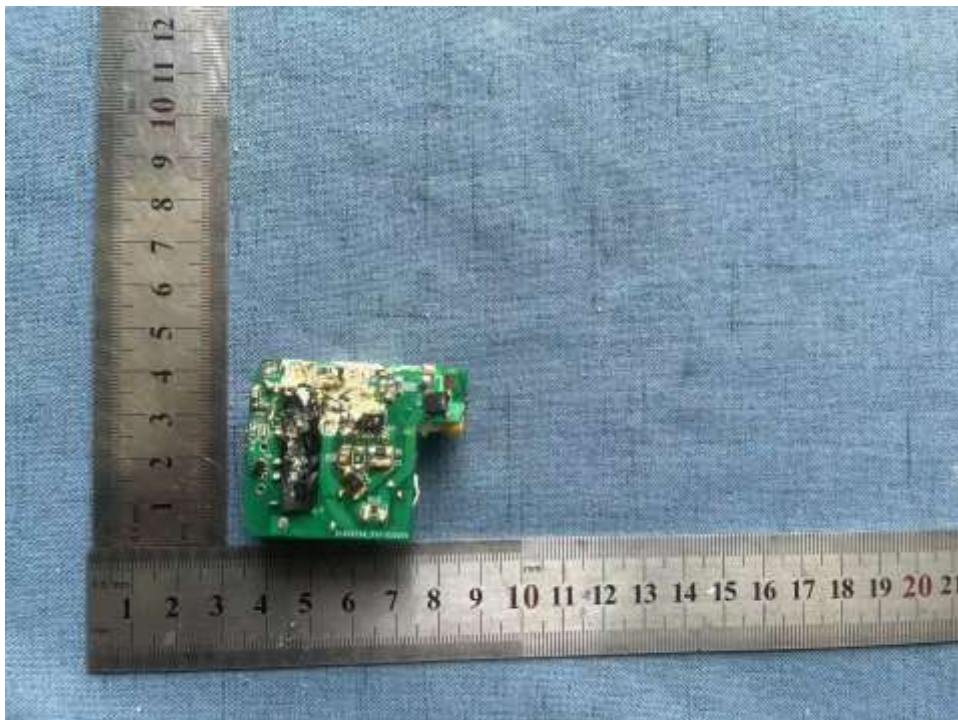


Fig.4

\*\*\*\*\*End of Report \*\*\*\*\*

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