

Test Report

Report No.: AGC01978180105-001

Date: Feb.07, 2018

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Applicant: Xindao B.V.
Address: VERRIJN STUARTLAAN 1D 2288EK RIJSWIJK NETHERLANDS

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

Sample Name: Portfolio with wireless power bank

Sample Model: P773.871

Manufacturer:

Address:

Country of origin: CHINA

Sample Received Date: Jan.31, 2018

Testing Period: Jan.31, 2018 to Feb.07, 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).

Tested by: Leon

Suhongliang, Leon

Test Team Leader

Reviewed by: Jessie.Liang

Liangdan, Jessie.Liang

Technical Supervisor

Approved by: Lewis

Liulinwen, Lewis

Technical Director



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Test Requested:

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.

Conclusion

Pass

Test Result(s):
Test Methods:

A: Screening by X-ray Fluorescence Spectrometry (XRF) :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 Ed 1.0 | UV-Vis | 1 mg/kg |
| Metal Hexavalent Chromium (Cr ⁶⁺) | 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 Results:
A、EU RoHS Directive 2011/65/EU and its amendment directives on XRF

| Seq. No. | Tested Part(s) | Results(mg/kg) | | | | |
|----------|--------------------------------------|----------------|----|----|----|----|
| | | Cd | Pb | Hg | Cr | Br |
| 1 | Tea tape (battery) | BL | BL | BL | BL | BL |
| 2 | Electric core (battery) | BL | BL | BL | BL | BL |
| 3 | White (battery) | BL | BL | BL | BL | BL |
| 4 | Soldering tin (battery) | BL | BL | BL | BL | - |
| 5 | Black line (battery) | BL | BL | BL | BL | BL |
| 6 | Red line (battery) | BL | BL | BL | BL | BL |
| 7 | Wire core (battery) | BL | BL | BL | BL | - |
| 8 | Black plastic sheet (battery sheet) | BL | BL | BL | BL | BL |
| 9 | Spring (battery) | BL | BL | BL | X* | - |
| 10 | Silver screw (battery) | BL | BL | BL | BL | - |
| 11 | Sheet metal (battery sheet) | BL | BL | BL | X* | - |
| 12 | Black adhesive paper (battery sheet) | BL | BL | BL | BL | BL |
| 13 | Red line skin | BL | BL | BL | BL | BL |
| 14 | Wire core | BL | BL | BL | BL | - |
| 15 | Black line skin | BL | BL | BL | BL | BL |
| 16 | Tin solder | BL | BL | BL | BL | - |
| 17 | PCB board | BL | BL | BL | BL | X* |
| 18 | IC Ontology (IC) | BL | BL | BL | BL | BL |
| 19 | Pin (IC) | BL | BL | BL | BL | - |
| 20 | Patch capacitance | BL | BL | BL | BL | BL |
| 21 | chip resistor | BL | BL | BL | BL | BL |
| 22 | Patch triode | BL | BL | BL | BL | BL |
| 23 | Wire core (induction coil) | BL | BL | BL | BL | - |
| 24 | Coil line (induction coil) | BL | BL | BL | BL | BL |

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| Seq. No. | Tested Part(s) | Results(mg/kg) | | | | |
|----------|-----------------------------------|----------------|----|----|----|----|
| | | Cd | Pb | Hg | Cr | Br |
| 25 | Gray ceramic (induction coil) | BL | BL | BL | BL | BL |
| 26 | Patch magnetic frame inductor | BL | BL | BL | BL | BL |
| 27 | Patch LED | BL | BL | BL | BL | BL |
| 28 | Red enameled wire | BL | BL | BL | BL | - |
| 29 | Brown enameled wire | BL | BL | BL | BL | - |
| 30 | Tin solder | BL | BL | BL | BL | - |
| 31 | PCB board | BL | BL | BL | BL | X* |
| 32 | Metal shell (USB joint) | BL | BL | BL | BL | - |
| 33 | White plastic joint (USB joint) | BL | BL | BL | BL | BL |
| 34 | Needle (USB joint) | BL | BL | BL | BL | - |
| 35 | Metal shell (Micro joint) | BL | BL | BL | BL | - |
| 36 | Black plastic joint (Micro joint) | BL | BL | BL | BL | BL |
| 37 | Needle (Micro joint) | BL | BL | BL | BL | - |

| Element | Unit | Non-metal | Metal | Composite Material |
|---------|-------|--|--|--|
| Cd | mg/kg | $BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$ | $BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$ | $BL \leq 50 - 3\sigma < X < 150 + 3\sigma \leq OL$ |
| Pb | mg/kg | $BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$ | $BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$ | $BL \leq 500 - 3\sigma < X < 1500 + 3\sigma \leq OL$ |
| Hg | mg/kg | $BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$ | $BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$ | $BL \leq 500 - 3\sigma < X < 1500 + 3\sigma \leq OL$ |
| Cr | mg/kg | $BL \leq 700 - 3\sigma < X$ | $BL \leq 700 - 3\sigma < X$ | $BL \leq 500 - 3\sigma < X$ |
| Br | mg/kg | $BL \leq 300 - 3\sigma < X$ | - | $BL \leq 250 - 3\sigma < X$ |

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:

- i 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) | 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 metal Cr⁶⁺

| Test Item(s) | MDL | Result(s) | | Limit |
|---|----------|-----------|----------|-------|
| | | 9 | 11 | |
| Hexavalent Chromium (Cr ⁶⁺) | See note | Negative | Negative | # |

Note: s

- Negative = Absence of Cr(VI) on the tested areas
- MDL = Method Detection Limit
- Boiling-water-extraction:

| Number | Colorimetric result (Cr(VI) concentration) | Qualitative result |
|--------|---|--|
| 1 | The sample solution is < the 0,10 µg/cm ² equivalent comparison standard solution | 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 ≥ the 0,10 µg/cm ² and ≤ the 0,13 µg/cm ² 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 µg/cm ² 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

| Item(s) | MDL | Result(s) | | Limit |
|---------------------------------------|-----|-----------|------|------------------------------|
| | | 17 | 31 | |
| Polybrominated Biphenyls (PBBs) | | | | |
| Monobromobiphenyl | 5 | N.D. | N.D. | Total PBBs Content <1000 |
| Dibromobiphenyl | 5 | N.D. | N.D. | |
| Tribromobiphenyl | 5 | N.D. | N.D. | |
| Tetrabromobiphenyl | 5 | N.D. | N.D. | |
| Pentabromobiphenyl | 5 | N.D. | N.D. | |
| Hexabromobiphenyl | 5 | N.D. | N.D. | |
| Heptabromobiphenyl | 5 | N.D. | N.D. | |
| Octabromobiphenyl | 5 | N.D. | N.D. | |
| Nonabromodiphenyl | 5 | N.D. | N.D. | |
| Decabromodiphenyl | 5 | N.D. | N.D. | |
| Total content | / | N.D. | N.D. | |
| Polybrominated Diphenylethers (PBDEs) | | | | |
| Monobromodiphenyl ether | 5 | N.D. | N.D. | Total PBDEs Content <1000 |
| Dibromodiphenyl ether | 5 | N.D. | N.D. | |
| Tribromodiphenyl ether | 5 | N.D. | N.D. | |
| Tetrabromodiphenyl ether | 5 | N.D. | N.D. | |
| Pentabromodiphenyl ether | 5 | N.D. | N.D. | |
| Hexabromodiphenyl ether | 5 | N.D. | N.D. | |
| Heptabromodiphenyl ether | 5 | N.D. | N.D. | |
| Octabromodiphenyl ether | 5 | N.D. | N.D. | |
| Nonabromodiphenyl ether | 5 | N.D. | N.D. | |
| Decabromodiphenyl ether | 5 | N.D. | N.D. | |
| Total content | / | N.D. | N.D. | |
| Conclusion | / | Pass | Pass | / |

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

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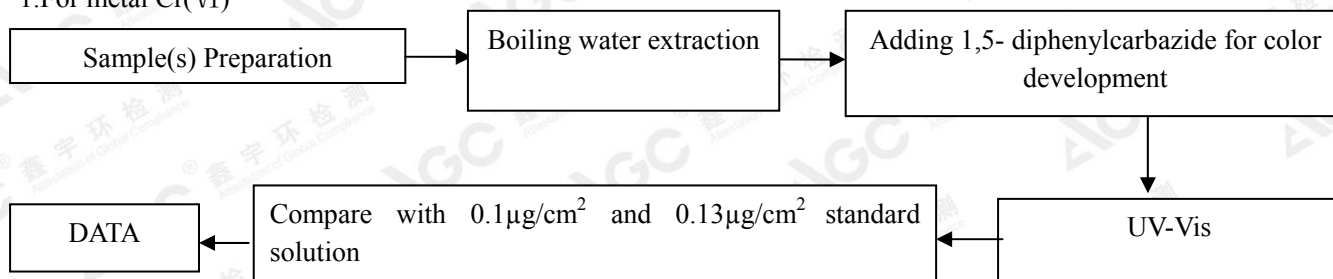
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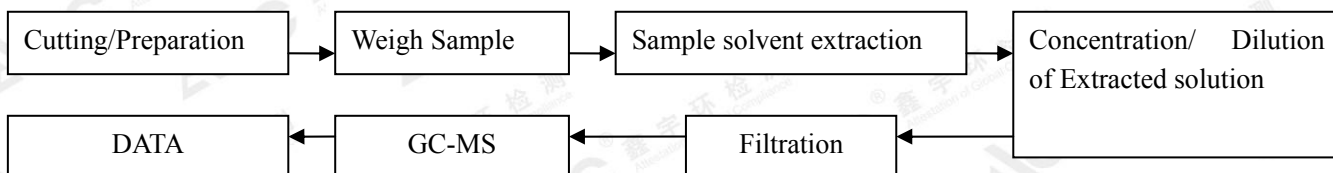
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Test Flow Chart

1.For metal Cr(VI)



2.For PBBs & PBDEs



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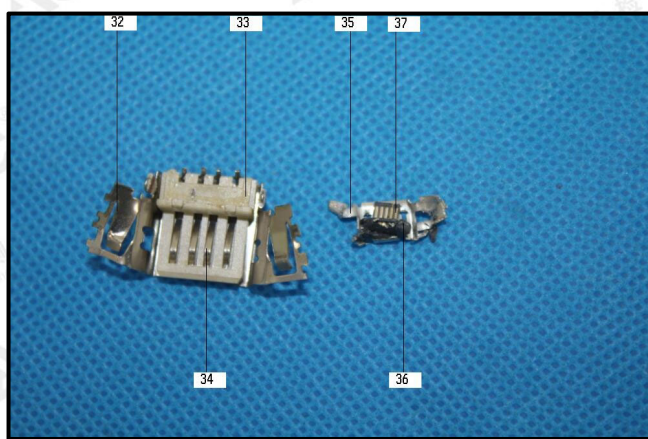
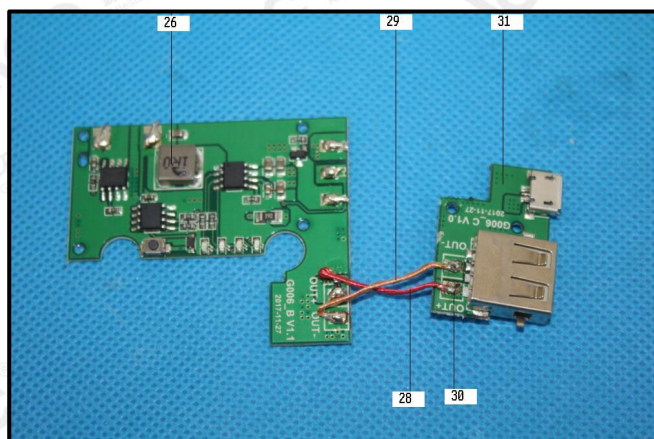
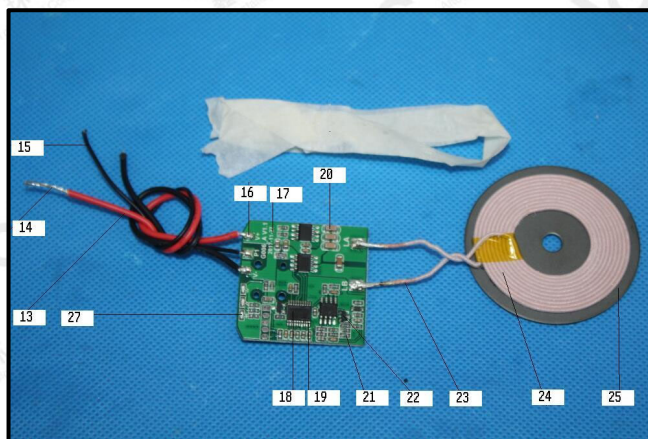
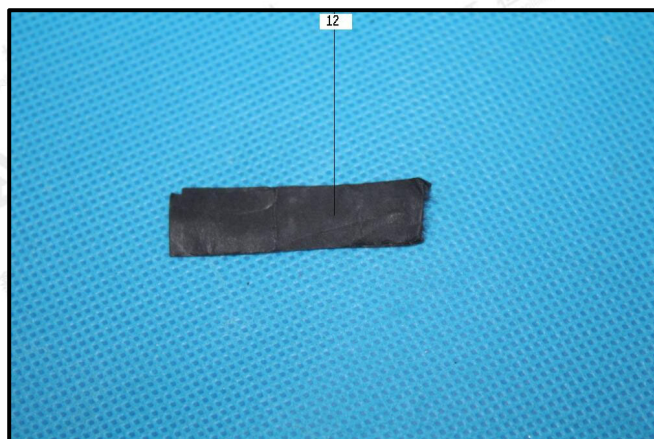
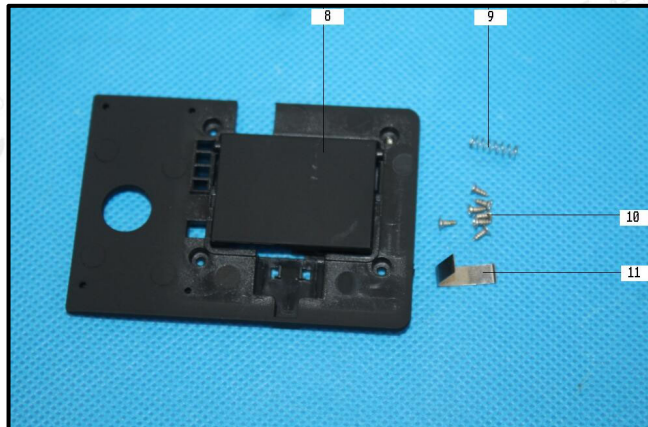
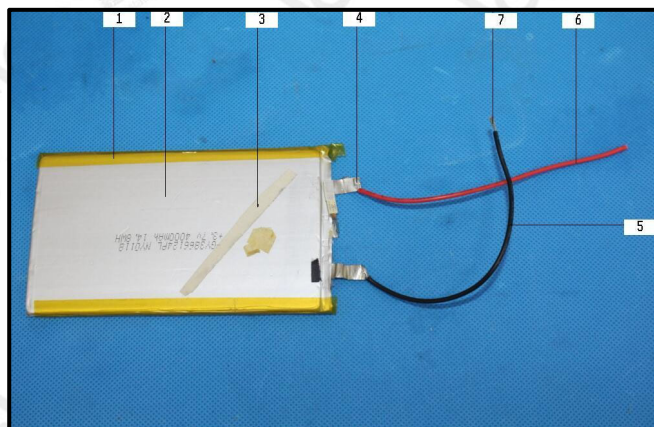
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The photo of the sample



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