



Test Report

No.: DGC140120011A

Date: January 22, 2014

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Applicant: Ubest Electronic Co., Limited

Address: 9/F, 25th Building, 7th Zone, Taoyuanju, Bao'an District, Shenzhen, Guangdong, China

Manufacturer: Ubest Electronic Co., Limited

Address: 9/F, 25th Building, 7th Zone, Taoyuanju, Bao'an District, Shenzhen, Guangdong, China

Sample Name: POWER BANK

Model No.: POW001, POW002, POW003, POW004, POW005, POW006, POW014, POW021, POW022, POW025, POW027, POW029, POW030, POW031, POW032, POW035, POW036, POW037, POW038, POW041, POW042, POW043, POW044, POW046

Test period: January 20, 2014 to January 22, 2014

Test requested: In accordance with RoHS Directive 2011/65/EU.

Test method: With reference to IEC 62321-2008 Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products, XRF scanning first test, then using chemical test method to confirm.

Test result: Please refer to next page.

Conclusion: Based on the test results, the submitted sample(s) comply with the RoHS Directive 2011/65/EU.

Written by:



Checked by:

Handwritten signature

Approved by:



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Http://www.dgac-lab.com



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Test method:

| Testing Item | Pretreatment Method | Measuring Instrument | MDL |
|------------------------------|---------------------------|----------------------|--------|
| Lead (Pb) | IEC 62321: section 8/9/10 | ICP-OES | 2mg/kg |
| Cadmium (Cd) | IEC 62321: section 8/9/10 | ICP-OES | 2mg/kg |
| Mercury (Hg) | IEC 62321: section 7 | ICP-OES | 2mg/kg |
| Chromium (Cr ⁶⁺) | IEC 62321: Annex C | UV-Vis | 2mg/kg |
| | IEC 62321: Annex B | | --- |
| PBBs/PBDEs | IEC 62321: Annex A | GC-MS | 5mg/kg |

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Details of test results(Unit: mg/kg):

| Part No. | Test Part Name | Restricted Substances | Results of EDXRF | Result of Chemical Testing | Conclusion on RoHS |
|----------|---------------------|-----------------------|------------------|----------------------------|--------------------|
| 1 | Black metal crust | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |
| 2 | White plastic cover | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |
| 3 | Blue adhesive paper | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |
| 4 | Green paper sheet | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |
| 5 | Silvery metal sheet | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |
| 6 | Cyan adhesive paper | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |

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|----------|----------------------------------|-----------------------|------------------|----------------------------|--------------------|
| 7 | White adhesive paper | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |
| 8 | Battery | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |
| 9 | Black plastic jacket | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |
| 10 | Red plastic jacket | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |
| 11 | Silvery wire core | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |
| 12 | Metal crust of power output port | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |

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| Part No. | Test Part Name | Restricted Substances | Results of EDXRF | Result of Chemical Testing | Conclusion on RoHS |
|----------|---|-----------------------|------------------|----------------------------|--------------------|
| 13 | Beige-yellow rubber core of power output port | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |
| 14 | Metal pin of power output port | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |
| 15 | Metal crust of power input port | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |
| 16 | Black rubber core of power input port | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |
| 17 | Metal pin of power input port | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |
| 18 | SMD resistor | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |

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|----------|----------------------------|-----------------------|------------------|----------------------------|--------------------|
| 19 | SMD capacitor | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |
| 20 | SMD LED | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | IN | N.D. | Comply |
| | | PBDEs | | N.D. | Comply |
| 21 | Black body of wafer | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |
| 22 | Metal pin of wafer | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |
| 23 | Magnet core of SMD DR CORE | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |
| 24 | Copper wire of SMD DR CORE | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |

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|----------|--------------------------|-----------------------|------------------|----------------------------|--------------------|
| 25 | Black body of SMD diode | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | IN | N.D. | Comply |
| | | PBDEs | | N.D. | Comply |
| 26 | Metal pin of SMD diode | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |
| 27 | Black body of SMD audion | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | IN | N.D. | Comply |
| | | PBDEs | | N.D. | Comply |
| 28 | Metal pin of SMD audion | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |
| 29 | Soldering tin of PCB | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |
| 30 | PCB | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | IN | N.D. | Comply |
| | | PBDEs | | N.D. | Comply |

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| Part No. | Test Part Name | Restricted Substances | Results of EDXRF | Result of Chemical Testing | Conclusion on RoHS |
|----------|---|-----------------------|------------------|----------------------------|--------------------|
| 31 | Metal crust of 4 pin port (data wire) | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |
| 32 | White rubber core of 4 pin port (data wire) | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | IN | N.D. | Comply |
| | | PBDEs | | N.D. | Comply |
| 33 | Metal pin of 4 pin port (data wire) | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |
| 34 | White plastic of data wire | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |
| 35 | Soldering tin of data wire | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |
| 36 | White bushing of data wire | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |

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|----------|---|-----------------------|------------------|----------------------------|--------------------|
| 37 | Black plastic jacket of data wire | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |
| 38 | Red plastic jacket of data wire | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |
| 39 | Wire core of data wire | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |
| 40 | Metal crust of 5 pin port (data wire) | Cr ⁶⁺ | IN | Negative | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |
| 41 | Black rubber core of 5 pin port (data wire) | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | IN | N.D. | Comply |
| | | PBDEs | | N.D. | Comply |
| 42 | Metal pin of 5 pin port (data wire) | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |

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|----------|--------------------------------|-----------------------|------------------|----------------------------|--------------------|
| 43 | White plastic jacket of ribbon | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |
| 44 | Silvery wire core of ribbon | Cr ⁶⁺ | BL | / | Comply |
| | | Cd | BL | / | Comply |
| | | Pb | BL | / | Comply |
| | | Hg | BL | / | Comply |
| | | PBBs | BL | / | Comply |
| | | PBDEs | | / | Comply |

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Note:

- (1) (a) It is the result on total Br while test PBBs/PBDEs by XRF, It is the result on total Cr while test Cr⁶⁺ by XRF;
 (b) Results are obtained by XRF for primary screening and further chemical testing by ICP-OES (for Pb, Cd and Hg), UV-Vis (for Cr⁶⁺) and GC-MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-2008 (unit: mg/kg);

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

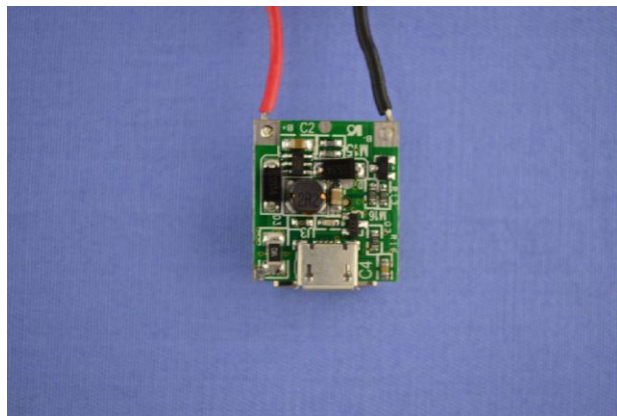
- (c) OL=Over Limit, BL=Below Limit, IN=Inconclusive, LOD= Limit of Detection;
 (d) The XRF screening test for RoHS elements –The reading may be different to the actual content in the sample be of non-uniformity composition.
- (2) (a) mg/kg=ppm=0.0001%, N.D.=Not detected(<MDL), MDL=Method Detection Limit, “---”=Not conducted, “/”=Not available.
 (b) According to IEC 62321-2008, result on Cr⁶⁺ for metal coating sample is shown as Positive/Negative. Negative= Absence of Cr⁶⁺ coating, Positive= Presence of Cr⁶⁺ coating

(3) RoHS Requirement

| Restricted substances | Limits |
|--|-----------------|
| Lead (Pb) | 0.1% (1000 ppm) |
| Cadmium (Cd) | 0.01% (100 ppm) |
| Chromium(VI) (Cr ⁶⁺) | 0.1% (1000 ppm) |
| Mercury (Hg) | 0.1% (1000 ppm) |
| Polybrominated biphenyls (PBBs) | 0.1% (1000 ppm) |
| Polybrominated diphenyl ethers (PBDEs) | 0.1% (1000 ppm) |

The above limits are reference with 2011/65/EU.

- (4) Specimens, which requested to determine Cadmium, Mercury and Lead Content, have been dissolved completely.

Photographs of Sample:

End of Report

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