

| Applicant name:    | Xiongmai Information Technology (Shenzhen) Co., Ltd  |
|--------------------|--|
| Applicant address: | 604, Building B, Chentian Dingjun Mountain Film Culture and Technology<br>Creative Park, Chentian Community, Xixiang Street, Bao'an District, Shenzhen |

### Sample information:

| Sample Name:          | Power Bank Portable Charger  |  |  |
|-----------------------|--|--|--|
| Sample Model:         | P1S/40000mAh (black), P1S/40000mAh (Yellow/black),                           |  |  |
|                       | P2S/20000mAh (Yellow/black)  |  |  |
| Trade mark:           | XiongMai   |  |  |
| Manufacturer:         | Xiongmai Information Technology (Shenzhen) Co., Ltd                          |  |  |
|                       | 604, Building B, Chentian Dingjun Mountain Film Culture and Technology       |  |  |
|                       | Creative Park, Chentian Community, Xixiang Street, Bao'an District, Shenzhen |  |  |
| Sample Received Date: | Nov.21,2022  |  |  |
| Testing Period:       | Nov.21,2022~Nov.25,2022  |  |  |

**Test Requested** As specified by client, to determine the Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs, DEHP, BBP, DBP & DIBP content in the submitted sample compliance with RoHS directive 2011/65/EU Annex II amending Annex (EU)2015/863 and amending Annex (EU)2017/2102.

#### **Test Method:**

| Tested Item(s)                         | Test Method              | Measured Equipment(s) | MDL      |  |
|--|--------------------------|-----------------------|----------|--|
| Lead(Pb)                               | IEC 62321-5:2013         | ICP-OES               | 2mg/kg   |  |
| Cadmium(Cd)                            | IEC 62321-5:2013         | ICP-OES               | 2mg/kg   |  |
| Mercury(Hg)                            | IEC 62321-4:2013+A1:2017 | ICP-OES               | 2mg/kg   |  |
| Havayalant Chuamiyum (Cu(VI))          | IEC 62321-7-1:2015       | UV-VIS                | 2000/100 |  |
| Hexavalent Chromium(Cr(VI))            | IEC 62321-7-2:2017       | 0 4-415               | 2mg/kg   |  |
| Polybrominated Biphenyls (PBBs)        | IEC 62321-6:2015         | GC-MS                 | 5mg/kg   |  |
| Polybrominated Dipheny1 Ethers (PBDEs) | IEC 62321-6:2015         | GC-MS                 | 5mg/kg   |  |
| Di-(2-ethylhexyl) phthalate(DEHP)      | IEC 62321-8:2017         | GC-MS                 | 50mg/kg  |  |
| Benzylbutyl phthalate(BBP)             | IEC 62321-8:2017         | GC-MS                 | 50mg/kg  |  |
| Dibutyl phthalate (DBP)                | IEC 62321-8:2017         | GC-MS                 | 50mg/kg  |  |
| Diisobutyl phthalate(DIBP)             | IEC 62321-8:2017         | GC-MS                 | 50mg/kg  |  |

Test Result(s)

Please refer to the following page(s).

Test by: Heber He

Technical Manage

Inspected by: Mary

\_\_\_\_\_

Approved by:

Date:

Nov.25,2022



### **Test Result:**

| <b>D</b> 7 | D. (N          | Restricted             |               |                     |
|------------|----------------|------------------------|---------------|---------------------|
| No.        | Part Name      | Substances             | Limit (mg/kg) | <b>Test Results</b> |
|            |                | Pb                     | 1000          | N.D.                |
|            |                | Cd                     | 100           | N.D.                |
|            |                | Hg                     | 1000          | N.D.                |
|            |                | Cr <sup>6+</sup>       | 1000          | N.D.                |
|            |                | PBBs                   | 1000          | N.D.                |
| 01         | USB line       | PBDEs                  | 1000          | N.D.                |
|            |                | DEHP                   | 1000          | N.D.                |
|            |                | BBP                    | 1000          | N.D.                |
|            |                | DBP                    | 1000          | N.D.                |
|            |                | DIBP                   | 1000          | N.D.                |
|            |                | Pb                     | 1000          | N.D.                |
|            |                | Cd                     | 1000          | N.D.                |
|            |                | Hg                     | 1000          | N.D.                |
|            |                | Cr <sup>6+</sup>       | 1000          | N.D.                |
|            |                | PBBs                   | 1000          | N.D.                |
| 02         | DC power cable | PBDEs                  | 1000          | N.D.                |
|            |                | DEHP                   | 1000          | N.D.                |
|            |                | BBP                    | 1000          | N.D.                |
|            |                |                        | 1000          |                     |
|            |                | DBP<br>DIBP            | 1000          | N.D.<br>N.D.        |
|            |                | Pb                     | 1000          | N.D.                |
|            |                | Cd                     | 1000          | N.D.                |
|            |                |                        |               |                     |
|            |                | Hg<br>Cr <sup>6+</sup> | 1000          | N.D.                |
|            |                |                        | 1000          | N.D.                |
| 03         | DC plug        | PBBs                   | 1000          | N.D.                |
|            |                | PBDEs                  | 1000          | N.D.                |
|            |                | DEHP                   | 1000          | N.D.                |
|            |                | BBP                    | 1000          | N.D.                |
|            | -              | DBP                    | 1000          | N.D.                |
|            |                | DIBP                   | 1000          | N.D.                |
|            |                | Pb                     | 1000          | N.D.                |
|            |                | Cd                     | 100           | N.D.                |
|            |                | Hg                     | 1000          | N.D.                |
|            |                | Cr <sup>6+</sup>       | 1000          | N.D.                |
| 04         | Screw          | PBBs                   | 1000          | -                   |
|            |                | PBDEs                  | 1000          | -                   |
|            |                | DEHP                   | 1000          | -                   |
|            |                | BBP                    | 1000          | -                   |
|            |                | DBP                    | 1000          | -                   |
|            |                | DIBP                   | 1000          | -                   |

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| No. | Part Name             | Restricted<br>Substances | Limit (mg/kg) | Test Results |
|-----|-----------------------|--------------------------|---------------|--------------|
|     |                       | Pb                       | 1000          | N.D.         |
|     |                       | Cd                       | 100           | N.D.         |
|     |                       | Hg                       | 1000          | N.D.         |
|     |                       | $\mathrm{Cr}^{6+}$       | 1000          | N.D.         |
| 05  | Dla alz myhhan atmin  | PBBs                     | 1000          | N.D.         |
| 0.5 | Black rubber strip    | PBDEs                    | 1000          | N.D.         |
|     |                       | DEHP                     | 1000          | N.D.         |
|     |                       | BBP                      | 1000          | N.D.         |
|     |                       | DBP                      | 1000          | N.D.         |
|     |                       | DIBP                     | 1000          | N.D.         |
|     |                       | Pb                       | 1000          | N.D.         |
|     |                       | Cd                       | 100           | N.D.         |
|     |                       | Hg                       | 1000          | N.D.         |
|     |                       | Cr <sup>6+</sup>         | 1000          | N.D.         |
| 06  | T                     | PBBs                     | 1000          | N.D.         |
| 06  | Transparent plastic - | PBDEs                    | 1000          | N.D.         |
|     | cover                 | DEHP                     | 1000          | N.D.         |
|     |                       | BBP                      | 1000          | N.D.         |
|     |                       | DBP                      | 1000          | N.D.         |
|     |                       | DIBP                     | 1000          | N.D.         |
|     |                       | Pb                       | 1000          | N.D.         |
|     |                       | Cd                       | 100           | N.D.         |
|     |                       | Hg                       | 1000          | N.D.         |
|     |                       | Cr <sup>6+</sup>         | 1000          | N.D.         |
| 07  | D-#                   | PBBs                     | 1000          | N.D.         |
| 07  | Battery               | PBDEs                    | 1000          | N.D.         |
|     | compartment           | DEHP                     | 1000          | N.D.         |
|     |                       | BBP                      | 1000          | N.D.         |
|     |                       | DBP                      | 1000          | N.D.         |
|     |                       | DIBP                     | 1000          | N.D.         |
|     |                       | Pb                       | 1000          | N.D.         |
|     |                       | Cd                       | 100           | N.D.         |
|     |                       | Hg                       | 1000          | N.D.         |
|     |                       | Cr <sup>6+</sup>         | 1000          | N.D.         |
| 00  | Comparailles          | PBBs                     | 1000          | -            |
| 08  | Copper pillar         | PBDEs                    | 1000          | -            |
|     |                       | DEHP                     | 1000          | -            |
|     |                       | BBP                      | 1000          | -            |
|     |                       | DBP                      | 1000          | -            |
|     |                       | DIBP                     | 1000          | -            |

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| No. | Part Name   | Restricted       | Limit (mg/kg) | Test Results |
|-----|-------------|------------------|---------------|--------------|
| NO. | rart Name   | Substances       | Limit (mg/kg) | Test Results |
|     |             | Pb               | 1000          | N.D.         |
|     |             | Cd               | 100           | N.D.         |
|     |             | Hg               | 1000          | N.D.         |
|     |             | Cr <sup>6+</sup> | 1000          | N.D.         |
| 00  | D "         | PBBs             | 1000          | N.D.         |
| 09  | Battery     | PBDEs            | 1000          | N.D.         |
|     |             | DEHP             | 1000          | N.D.         |
|     |             | BBP              | 1000          | N.D.         |
|     |             | DBP              | 1000          | N.D.         |
|     |             | DIBP             | 1000          | N.D.         |
|     |             | Pb               | 1000          | N.D.         |
|     |             | Cd               | 100           | N.D.         |
|     |             | Hg               | 1000          | N.D.         |
|     |             | Cr <sup>6+</sup> | 1000          | N.D.         |
| 1.0 |             | PBBs             | 1000          | N.D.         |
| 10  | Cover plate | PBDEs            | 1000          | N.D.         |
|     |             | DEHP             | 1000          | N.D.         |
|     |             | BBP              | 1000          | N.D.         |
|     |             | DBP              | 1000          | N.D.         |
|     |             | DIBP             | 1000          | N.D.         |
|     |             | Pb               | 1000          | N.D.         |
|     |             | Cd               | 100           | N.D.         |
|     |             | Hg               | 1000          | N.D.         |
|     |             | Cr <sup>6+</sup> | 1000          | N.D.         |
| 11  | IC          | PBBs             | 1000          | N.D.         |
| 11  | IC          | PBDEs            | 1000          | N.D.         |
|     |             | DEHP             | 1000          | N.D.         |
|     |             | BBP              | 1000          | N.D.         |
|     |             | DBP              | 1000          | N.D.         |
|     |             | DIBP             | 1000          | N.D.         |
|     |             | Pb               | 1000          | N.D.         |
|     |             | Cd               | 100           | N.D.         |
| 10  |             | Hg               | 1000          | N.D.         |
|     |             | Cr <sup>6+</sup> | 1000          | N.D.         |
|     | MOS         | PBBs             | 1000          | N.D.         |
| 12  | MOS         | PBDEs            | 1000          | N.D.         |
|     |             | DEHP             | 1000          | N.D.         |
|     |             | BBP              | 1000          | N.D.         |
|     |             | DBP              | 1000          | N.D.         |
|     |             | DIBP             | 1000          | N.D.         |

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| No.  | Part Name             | Restricted         | Limit (mg/kg) | Test Results |
|------|-----------------------|--------------------|---------------|--------------|
| 110. | T ar t Traine         | Substances         | Limit (mg/kg) | rest results |
|      |                       | Pb                 | 1000          | N.D.         |
|      |                       | Cd                 | 100           | N.D.         |
|      |                       | Hg                 | 1000          | N.D.         |
|      |                       | $\mathrm{Cr}^{6+}$ | 1000          | N.D.         |
| 13   | Chin register         | PBBs               | 1000          | N.D.         |
| 13   | Chip resistor         | PBDEs              | 1000          | N.D.         |
|      |                       | DEHP               | 1000          | N.D.         |
|      |                       | BBP                | 1000          | N.D.         |
|      |                       | DBP                | 1000          | N.D.         |
|      |                       | DIBP               | 1000          | N.D.         |
|      |                       | Pb                 | 1000          | N.D.         |
|      |                       | Cd                 | 100           | N.D.         |
|      |                       | Hg                 | 1000          | N.D.         |
|      |                       | Cr <sup>6+</sup>   | 1000          | N.D.         |
| 14   | Cl. in a constitution | PBBs               | 1000          | N.D.         |
| 14   | Chip capacitor        | PBDEs              | 1000          | N.D.         |
|      |                       | DEHP               | 1000          | N.D.         |
|      |                       | BBP                | 1000          | N.D.         |
|      |                       | DBP                | 1000          | N.D.         |
|      |                       | DIBP               | 1000          | N.D.         |
|      |                       | Pb                 | 1000          | N.D.         |
|      |                       | Cd                 | 100           | N.D.         |
|      |                       | Hg                 | 1000          | N.D.         |
|      |                       | Cr <sup>6+</sup>   | 1000          | N.D.         |
| 15   | F1414 -               | PBBs               | 1000          | N.D.         |
| 13   | Electrolytic          | PBDEs              | 1000          | N.D.         |
|      | capacitor             | DEHP               | 1000          | N.D.         |
|      |                       | BBP                | 1000          | N.D.         |
|      |                       | DBP                | 1000          | N.D.         |
|      |                       | DIBP               | 1000          | N.D.         |
|      |                       | Pb                 | 1000          | N.D.         |
|      |                       | Cd                 | 100           | N.D.         |
|      |                       | Hg                 | 1000          | N.D.         |
|      |                       | Cr <sup>6+</sup>   | 1000          | N.D.         |
| 1.4  | Windin                | PBBs               | 1000          | N.D.         |
| 16   | Winding               | PBDEs              | 1000          | N.D.         |
|      | inductance            | DEHP               | 1000          | N.D.         |
|      |                       | BBP                | 1000          | N.D.         |
|      |                       | DBP                | 1000          | N.D.         |
|      |                       | DIBP               | 1000          | N.D.         |

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| No.  | Part Name           | Restricted       | Limit (mg/kg) | Test Results |
|------|---------------------|------------------|---------------|--------------|
| 110. | Part Name           | Substances       | Limit (mg/kg) | Test Results |
|      |                     | Pb               | 1000          | N.D.         |
|      |                     | Cd               | 100           | N.D.         |
|      |                     | Hg               | 1000          | N.D.         |
|      |                     | Cr <sup>6+</sup> | 1000          | N.D.         |
| 17   | T :41: : 1: -44 - : | PBBs             | 1000          | N.D.         |
| 17   | Lithium battery     | PBDEs            | 1000          | N.D.         |
|      | protection IC       | DEHP             | 1000          | N.D.         |
|      |                     | BBP              | 1000          | N.D.         |
|      |                     | DBP              | 1000          | N.D.         |
|      |                     | DIBP             | 1000          | N.D.         |
|      |                     | Pb               | 1000          | N.D.         |
|      |                     | Cd               | 100           | N.D.         |
|      |                     | Hg               | 1000          | N.D.         |
|      |                     | Cr <sup>6+</sup> | 1000          | N.D.         |
| 1.0  | I ED                | PBBs             | 1000          | N.D.         |
| 18   | LED                 | PBDEs            | 1000          | N.D.         |
|      |                     | DEHP             | 1000          | N.D.         |
|      |                     | BBP              | 1000          | N.D.         |
|      |                     | DBP              | 1000          | N.D.         |
|      |                     | DIBP             | 1000          | N.D.         |
|      |                     | Pb               | 1000          | N.D.         |
|      |                     | Cd               | 100           | N.D.         |
|      |                     | Hg               | 1000          | N.D.         |
|      |                     | Cr <sup>6+</sup> | 1000          | N.D.         |
| 19   | Diode               | PBBs             | 1000          | N.D.         |
| 19   | Diode               | PBDEs            | 1000          | N.D.         |
|      |                     | DEHP             | 1000          | N.D.         |
|      |                     | BBP              | 1000          | N.D.         |
|      |                     | DBP              | 1000          | N.D.         |
|      |                     | DIBP             | 1000          | N.D.         |
|      |                     | Pb               | 1000          | N.D.         |
|      |                     | Cd               | 100           | N.D.         |
|      |                     | Hg               | 1000          | N.D.         |
| 20   |                     | Cr <sup>6+</sup> | 1000          | N.D.         |
|      | Triode              | PBBs             | 1000          | N.D.         |
| 20   | ITIOGE              | PBDEs            | 1000          | N.D.         |
|      |                     | DEHP             | 1000          | N.D.         |
|      |                     | BBP              | 1000          | N.D.         |
|      |                     | DBP              | 1000          | N.D.         |
|      |                     | DIBP             | 1000          | N.D.         |

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| NI  | D. AN      | Restricted       | T: 4 ( B )    | T (D 1       |
|-----|------------|------------------|---------------|--------------|
| No. | Part Name  | Substances       | Limit (mg/kg) | Test Results |
|     |            | Pb               | 1000          | N.D.         |
|     |            | Cd               | 100           | N.D.         |
|     |            | Hg               | 1000          | N.D.         |
|     |            | Cr <sup>6+</sup> | 1000          | N.D.         |
| 2.1 |            | PBBs             | 1000          | N.D.         |
| 21  | Thermistor | PBDEs            | 1000          | N.D.         |
|     |            | DEHP             | 1000          | N.D.         |
|     |            | BBP              | 1000          | N.D.         |
|     |            | DBP              | 1000          | N.D.         |
|     |            | DIBP             | 1000          | N.D.         |
|     |            | Pb               | 1000          | N.D.         |
|     |            | Cd               | 100           | N.D.         |
|     |            | Hg               | 1000          | N.D.         |
|     |            | Cr <sup>6+</sup> | 1000          | N.D.         |
| 22  | I ED       | PBBs             | 1000          | N.D.         |
| 22  | LED screen | PBDEs            | 1000          | N.D.         |
|     |            | DEHP             | 1000          | N.D.         |
|     |            | BBP              | 1000          | N.D.         |
|     |            | DBP              | 1000          | N.D.         |
|     |            | DIBP             | 1000          | N.D.         |
|     |            | Pb               | 1000          | N.D.         |
|     |            | Cd               | 100           | N.D.         |
|     |            | Hg               | 1000          | N.D.         |
|     |            | Cr <sup>6+</sup> | 1000          | N.D.         |
| 23  | Switch     | PBBs             | 1000          | N.D.         |
| 23  | Switch     | PBDEs            | 1000          | N.D.         |
|     |            | DEHP             | 1000          | N.D.         |
|     |            | BBP              | 1000          | N.D.         |
|     |            | DBP              | 1000          | N.D.         |
|     |            | DIBP             | 1000          | N.D.         |
|     |            | Pb               | 1000          | N.D.         |
|     |            | Cd               | 100           | N.D.         |
|     |            | Hg               | 1000          | N.D.         |
|     |            | Cr <sup>6+</sup> | 1000          | N.D.         |
| 24  | USB socket | PBBs             | 1000          | N.D.         |
| _ r | 222 Source | PBDEs            | 1000          | N.D.         |
|     |            | DEHP             | 1000          | N.D.         |
|     |            | BBP              | 1000          | N.D.         |
|     |            | DBP              | 1000          | N.D.         |
|     |            | DIBP             | 1000          | N.D.         |

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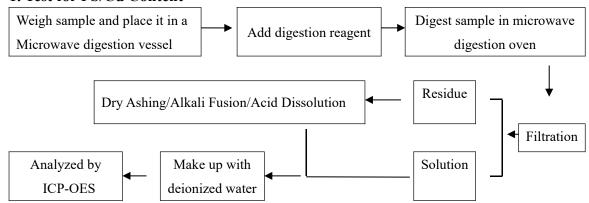


Note:

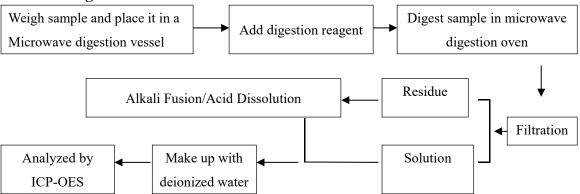
N.D. =Not Detected(<MDL)
mg/kg = ppm =parts per million
"- "=Not specified</pre>

### **Test process**

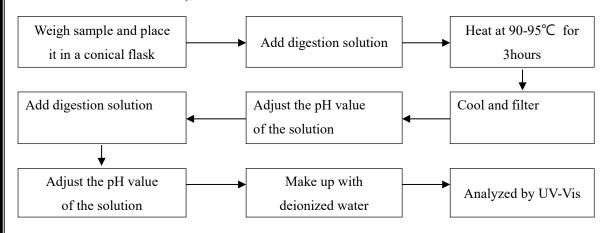
#### 1. Test for Pb/Cd Content



### 2. Test for Hg Content



### 3. Test for Chromium (VI) Content



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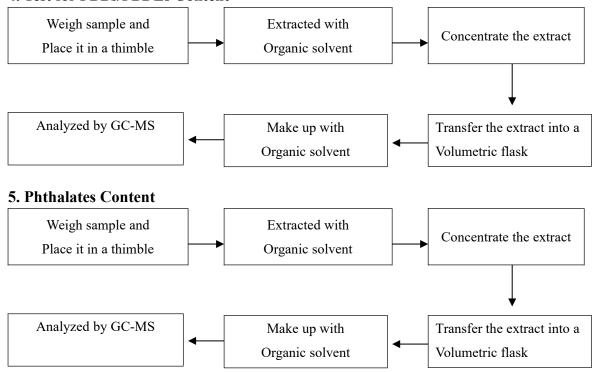
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### 4. Test for PBBs/PBDEs Content



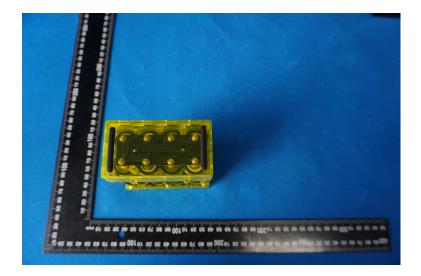
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Photo(s) of the sample(s)

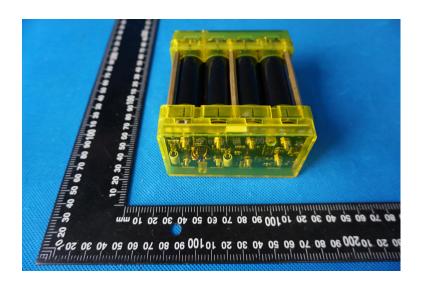


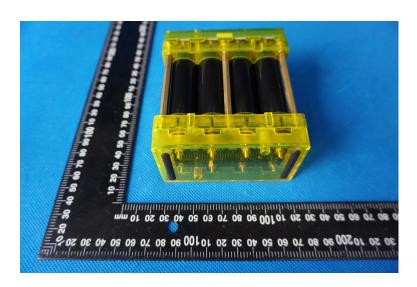


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\*\*\* End of report \*\*\*

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