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# Test Report

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Report No. : AGC05443260335-001

**SAMPLE NAME** : Spirit level pen with ruler  
**MODEL NAME** : MO2072  
**APPLICANT** : MID OCEAN BRANDS B.V.  
**STANDARD(S)** : Please refer to the following page(s).  
**DATE OF ISSUE** : Mar. 25, 2026

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Applicant : MID OCEAN BRANDS B.V.  
Address : Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon,  
Hong Kong.  
Test Site : 6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street,  
Bao'an District, Shenzhen, Guangdong, China

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

Sample Name : Spirit level pen with ruler  
Model : MO2072  
Vendor code : 114276  
Country of Origin : CHINA  
Country of Destination : EUROPE  
Sample Received Date : Mar. 20, 2026  
Testing Period : Mar. 20, 2026 to Mar. 25, 2026  
Test Requested : Selected test(s) as requested by client.

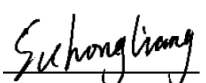
**Test Requested:****Conclusion**

2011/65/EU (RoHS) and its amendment directive (EU) 2015/863  
- Pb, Cd, Hg, Cr<sup>6+</sup>, PBBs, PBDEs, DBP, BBP, DEHP, DIBP

Pass

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 50  
- Polycyclic-aromatic Hydrocarbons (PAHs) Content

Pass

Approved by: 

Suhongliang

Technical Director

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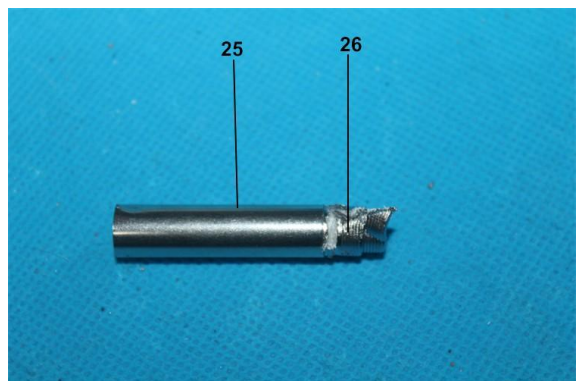
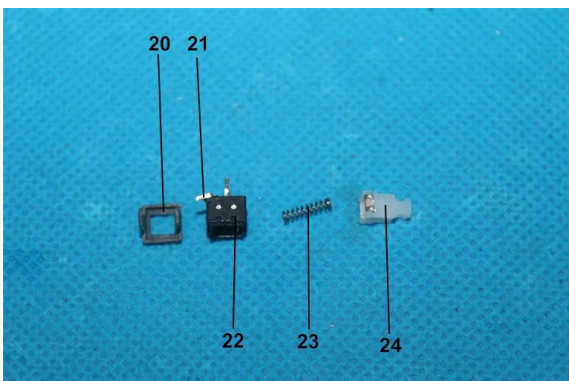
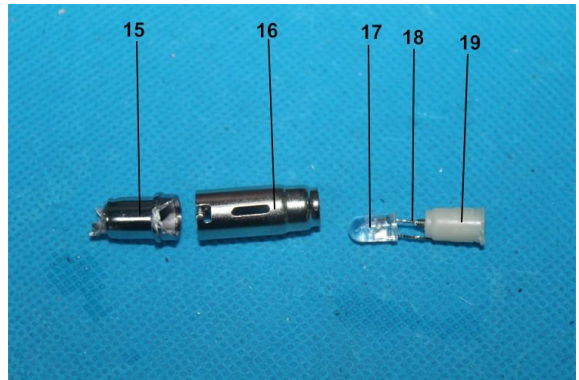
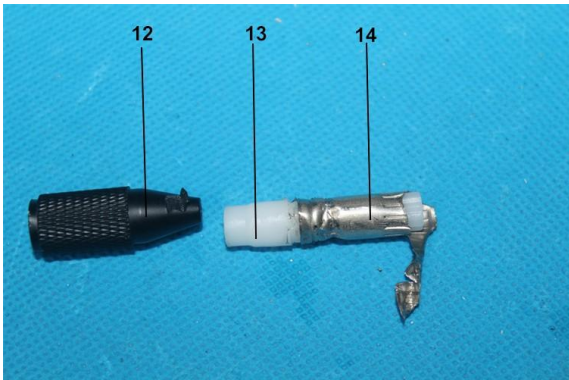
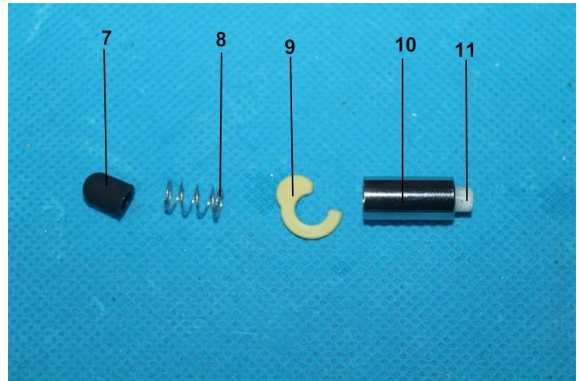
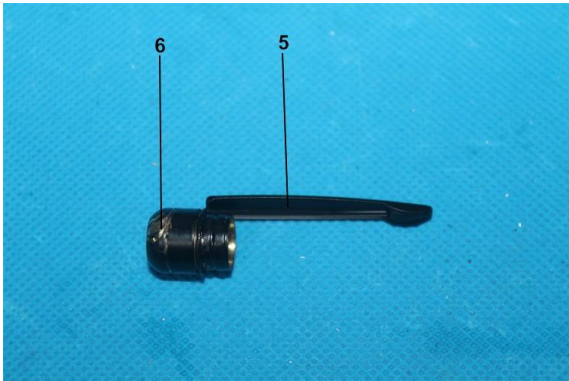
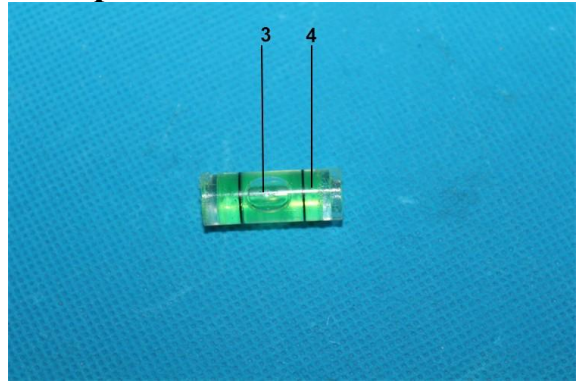
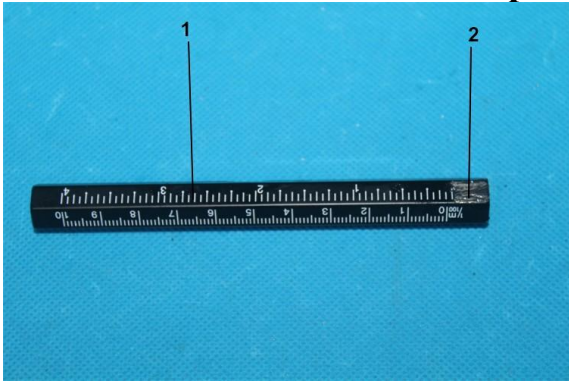
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## Report Revise Record

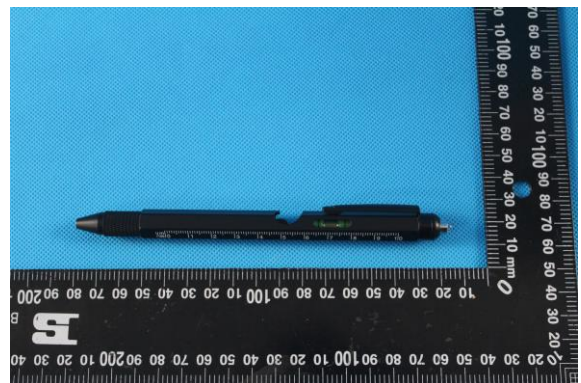
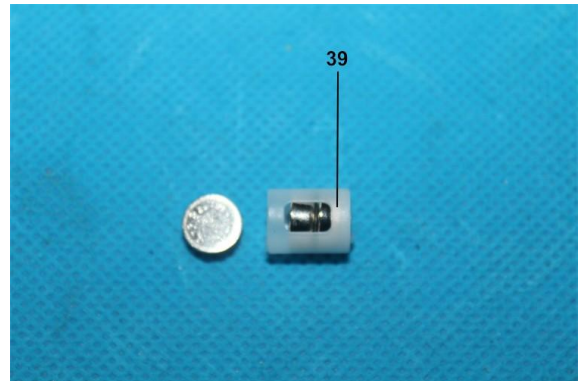
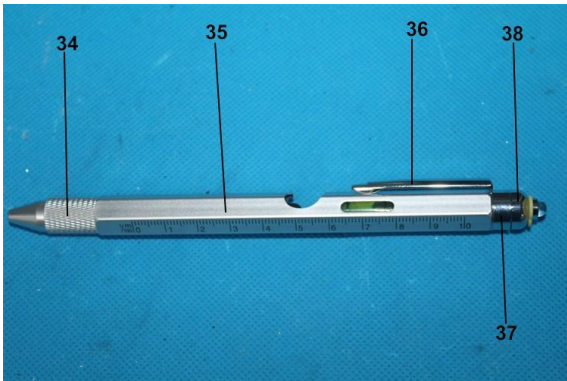
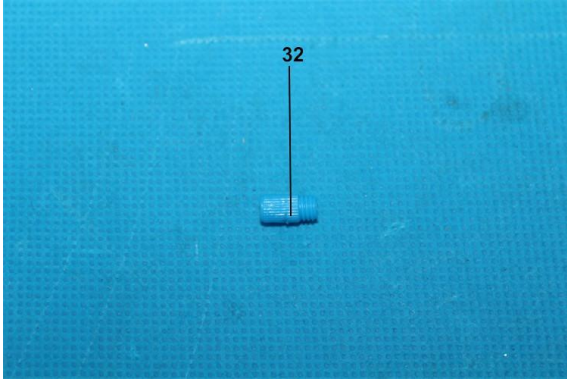
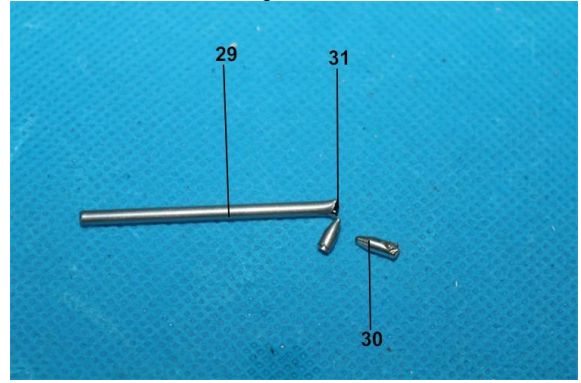
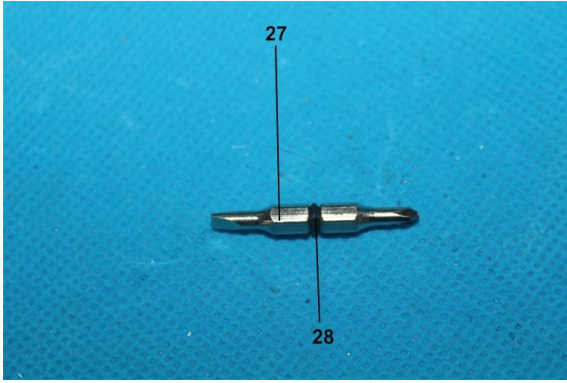
| Report Version | Issued Date   | Valid Version | Notes           |
|----------------|---------------|---------------|-----------------|
| /              | Mar. 25, 2026 | Valid         | Initial release |

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**The photo of the sample**



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**Test Point Description**

| Test point | Test module | Test parts   | Test point description      |
|------------|-------------|--------------|-----------------------------|
| MO2072     |             |              |                             |
| 1          | ---         | ---          | Black coating               |
| 2          | ---         | ---          | Metal pen barrel            |
| 3          | ---         | Spirit level | Transparent plastic         |
| 4          | ---         |              | Glycerol                    |
| 5          | ---         | Pen clip     | Black metal pen clip        |
| 6          | ---         |              | Copper metal cap            |
| 7          | ---         | ---          | Black silicone cap          |
| 8          | ---         | ---          | Silver metal spring         |
| 9          | ---         | ---          | Yellow circle               |
| 10         | ---         | ---          | Silver metallic tube        |
| 11         | ---         | ---          | White plastic               |
| 12         | ---         | ---          | Black plastic pen tip       |
| 13         | ---         | ---          | White plastic shell         |
| 14         | ---         | ---          | Silver metallic tube        |
| 15         | ---         | ---          | Silver plated plastic shell |
| 16         | ---         | ---          | Silver metallic shell       |
| 17         | ---         | ---          | LED lamp                    |
| 18         | ---         | ---          | Silver metal pin            |
| 19         | ---         | ---          | Beige plastic               |
| 20         | ---         | Tact Switch  | Grey plastic stand          |
| 21         | ---         |              | Silver metal pin            |
| 22         | ---         |              | Black plastic base          |
| 23         | ---         |              | Silver metal spring         |
| 24         | ---         |              | White plastic               |
| 25         | ---         | Pen holder   | Silver metallic tube        |
| 26         | ---         |              | Plated plastic shell        |
| 27         | ---         | Screwdriver  | Silver metal screwdriver    |
| 28         | ---         |              | Black sealing ring          |
| 29         | ---         | Pen refill   | Silver metal pen barrel     |
| 30         | ---         |              | Silver metal pen tip        |
| 31         | ---         |              | Blue ink                    |
| 32         | ---         | ---          | Blue plastic cap            |
| 33         | ---         | ---          | Copper metal ring           |
| Difference |             |              |                             |
| 34         | ---         | Silver pen   | Silver metal tip            |
| 35         | ---         |              | Silver metal pen shaft      |
| 36         | ---         |              | Silver metal pen cap        |
| 37         | ---         |              | Silver metal ring           |
| 38         | ---         |              | Silver metal knob ring      |
| 39         | ---         | ---          | White plastic sleeve        |

Note: "---" = The test point exists alone in the sample and is not attached to the test module or test parts.

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**Test Results:**

Note: N.D.=Not Detected (less than method detection limit), MDL = Method Detection Limit, 1mg/kg=0.0001%,  
N/A= Not Applicable

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019/CNAS-GL015:2022.

**2011/65/EU (RoHS) and its amendment directive (EU) 2015/863**
**- Pb, Cd, Hg, Cr<sup>6+</sup>, PBBs, PBDEs, DBP, BBP, DEHP, DIBP**

| Test Item   | Test Method/ Instrument            | MDL                   | Maximum Limit    |
|---|------------------------------------|-----------------------|------------------|
| Lead (Pb)   | IEC 62321-3-1:2013/ XRF            | /                     | 1000mg/kg        |
| Cadmium (Cd)  |                                    | /                     | 100mg/kg         |
| Mercury (Hg)  |                                    | /                     | 1000mg/kg        |
| Total Chromium  |                                    | /                     | /                |
| Total Bromine   |                                    | /                     | /                |
| <b>Chemistry Method</b>   |                                    |                       |                  |
| Lead (Pb)   | IEC 62321-5:2013/ ICP-OES          | 2mg/kg                | 1000mg/kg        |
| Cadmium (Cd)  | IEC 62321-5:2013/ ICP-OES          | 2mg/kg                | 100mg/kg         |
| Mercury (Hg)  | IEC 62321-4: 2013+A1:2017/ ICP-OES | 2mg/kg                | 1000mg/kg        |
| Non-metal: Hexavalent Chromium (Cr <sup>6+</sup> )  | IEC 62321-7-2:2017/ UV-Vis         | 8mg/kg                | 1000mg/kg        |
| Metal: Hexavalent Chromium (Cr <sup>6+</sup> )  | IEC 62321-7-1:2015/ UV-Vis         | 0.1µg/cm <sup>2</sup> | /                |
| Polybrominated Biphenyls (PBBs)<br>-Monobromobiphenyl (MonoBB)<br>-Dibromobiphenyl (DiBB)<br>-Tribromobiphenyl (TriBB)<br>-Tetrabromobiphenyl (TetraBB)<br>-Pentabromobiphenyl (PentaBB)<br>-Hexabromobiphenyl (HexaBB)<br>-Heptabromobiphenyl (HeptaBB)<br>-Octabromobiphenyl (OctaBB)<br>-Nonabromodiphenyl (NonaBB)<br>-Decabromodiphenyl (DecaBB)   | IEC 62321-6:2015/ GC-MS            | Single<br>5mg/kg      | Sum<br>1000mg/kg |
| Polybrominated Diphenylethers (PBDEs)<br>-Monobromodiphenyl ether (MonoBDE)<br>-Dibromodiphenyl ether (DiBDE)<br>-Tribromodiphenyl ether (TriBDE)<br>-Tetrabromodiphenyl ether (TetraBDE)<br>-Pentabromodiphenyl ether (PentaBDE)<br>-Hexabromodiphenyl ether (HexaBDE)<br>-Heptabromodiphenyl ether (HeptaBDE)<br>-Octabromodiphenyl ether (OctaBDE)<br>-Nonabromodiphenyl ether (NonaBDE)<br>-Decabromodiphenyl ether (DecaBDE) | IEC 62321-6:2015/ GC-MS            | Single<br>5mg/kg      | Sum<br>1000mg/kg |
| Di-iso-butyl phthalate (DIBP)   | IEC 62321-8:2017/ GC-MS            | 50mg/kg               | 1000mg/kg        |
| Dibutyl phthalate (DBP)   |                                    | 50mg/kg               | 1000mg/kg        |
| Butylbenzyl phthalate (BBP)   |                                    | 50mg/kg               | 1000mg/kg        |
| Di-(2-ethylhexyl) Phthalate (DEHP)  |                                    | 50mg/kg               | 1000mg/kg        |

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| Test point | Test Item             | X-ray Fluorescence Spectrometry (XRF) mg/kg | Wet Chemistry Method mg/kg | Conclusion |   |
|------------|-----------------------|---|----------------------------|------------|---|
| 1          | Pb                    | BL  | /                          | Conformity |   |
|            | Cd                    | BL  | /                          |            |   |
|            | Hg                    | BL  | /                          |            |   |
|            | Cr(Cr <sup>6+</sup> ) | BL  | /                          |            |   |
|            | Br                    | PBBs  | BL                         |            | / |
|            |                       | PBDEs                                       |                            |            | / |
|            | DIBP                  | N/A   | N.D.                       |            |   |
|            | DBP                   | N/A   | N.D.                       |            |   |
|            | BBP                   | N/A   | N.D.                       |            |   |
| DEHP       | N/A                   | N.D.  |                            |            |   |
| 2          | Pb                    | BL  | /                          | Conformity |   |
|            | Cd                    | BL  | /                          |            |   |
|            | Hg                    | BL  | /                          |            |   |
|            | Cr(Cr <sup>6+</sup> ) | IN  | N.D.                       |            |   |
|            | Br                    | PBBs  | N/A                        |            | / |
|            |                       | PBDEs                                       |                            |            | / |
|            | DIBP                  | N/A   | /                          |            |   |
|            | DBP                   | N/A   | /                          |            |   |
|            | BBP                   | N/A   | /                          |            |   |
| DEHP       | N/A                   | /   |                            |            |   |
| 3          | Pb                    | BL  | /                          | Conformity |   |
|            | Cd                    | BL  | /                          |            |   |
|            | Hg                    | BL  | /                          |            |   |
|            | Cr(Cr <sup>6+</sup> ) | BL  | /                          |            |   |
|            | Br                    | PBBs  | BL                         |            | / |
|            |                       | PBDEs                                       |                            |            | / |
|            | DIBP                  | N/A   | N.D.                       |            |   |
|            | DBP                   | N/A   | N.D.                       |            |   |
|            | BBP                   | N/A   | N.D.                       |            |   |
| DEHP       | N/A                   | N.D.  |                            |            |   |
| 4          | Pb                    | BL  | /                          | Conformity |   |
|            | Cd                    | BL  | /                          |            |   |
|            | Hg                    | BL  | /                          |            |   |
|            | Cr(Cr <sup>6+</sup> ) | BL  | /                          |            |   |
|            | Br                    | PBBs  | BL                         |            | / |
|            |                       | PBDEs                                       |                            |            | / |
|            | DIBP                  | N/A   | N.D.                       |            |   |
|            | DBP                   | N/A   | N.D.                       |            |   |
|            | BBP                   | N/A   | N.D.                       |            |   |
| DEHP       | N/A                   | N.D.  |                            |            |   |

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| Test point | Test Item             | X-ray Fluorescence Spectrometry (XRF) mg/kg | Wet Chemistry Method mg/kg | Conclusion |   |
|------------|-----------------------|---|----------------------------|------------|---|
| 5          | Pb                    | BL  | /                          | Conformity |   |
|            | Cd                    | BL  | /                          |            |   |
|            | Hg                    | BL  | /                          |            |   |
|            | Cr(Cr <sup>6+</sup> ) | IN  | N.D.                       |            |   |
|            | Br                    | PBBs  | N/A                        |            | / |
|            |                       | PBDEs                                       |                            |            | / |
|            | DIBP                  | N/A   | /                          |            |   |
|            | DBP                   | N/A   | /                          |            |   |
|            | BBP                   | N/A   | /                          |            |   |
| DEHP       | N/A                   | /   |                            |            |   |
| 6          | Pb                    | BL  | /                          | Conformity |   |
|            | Cd                    | BL  | /                          |            |   |
|            | Hg                    | BL  | /                          |            |   |
|            | Cr(Cr <sup>6+</sup> ) | IN  | N.D.                       |            |   |
|            | Br                    | PBBs  | N/A                        |            | / |
|            |                       | PBDEs                                       |                            |            | / |
|            | DIBP                  | N/A   | /                          |            |   |
|            | DBP                   | N/A   | /                          |            |   |
|            | BBP                   | N/A   | /                          |            |   |
| DEHP       | N/A                   | /   |                            |            |   |
| 7          | Pb                    | BL  | /                          | Conformity |   |
|            | Cd                    | BL  | /                          |            |   |
|            | Hg                    | BL  | /                          |            |   |
|            | Cr(Cr <sup>6+</sup> ) | BL  | /                          |            |   |
|            | Br                    | PBBs  | BL                         |            | / |
|            |                       | PBDEs                                       |                            |            | / |
|            | DIBP                  | N/A   | N.D.                       |            |   |
|            | DBP                   | N/A   | N.D.                       |            |   |
|            | BBP                   | N/A   | N.D.                       |            |   |
| DEHP       | N/A                   | N.D.  |                            |            |   |
| 8          | Pb                    | BL  | /                          | Conformity |   |
|            | Cd                    | BL  | /                          |            |   |
|            | Hg                    | BL  | /                          |            |   |
|            | Cr(Cr <sup>6+</sup> ) | BL  | /                          |            |   |
|            | Br                    | PBBs  | N/A                        |            | / |
|            |                       | PBDEs                                       |                            |            | / |
|            | DIBP                  | N/A   | /                          |            |   |
|            | DBP                   | N/A   | /                          |            |   |
|            | BBP                   | N/A   | /                          |            |   |
| DEHP       | N/A                   | /   |                            |            |   |

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|------------|-----------------------|---|----------------------------|--|---|
| 9          | Pb                    | BL  | /                          | Conformity                             |   |
|            | Cd                    | BL  | /                          |  |   |
|            | Hg                    | BL  | /                          |  |   |
|            | Cr(Cr <sup>6+</sup> ) | BL  | /                          |  |   |
|            | Br                    | PBBs  | BL                         |  | / |
|            |                       | PBDEs                                       |                            |  | / |
|            | DIBP                  | N/A   | N.D.                       |  |   |
|            | DBP                   | N/A   | N.D.                       |  |   |
|            | BBP                   | N/A   | N.D.                       |  |   |
| DEHP       | N/A                   | N.D.  |                            |  |   |
| 10         | Pb                    | IN  | 24296                      | Conformity<br>Exemption<br>clause 6(c) |   |
|            | Cd                    | BL  | /                          |  |   |
|            | Hg                    | BL  | /                          |  |   |
|            | Cr(Cr <sup>6+</sup> ) | BL  | /                          |  |   |
|            | Br                    | PBBs  | N/A                        |  | / |
|            |                       | PBDEs                                       |                            |  | / |
|            | DIBP                  | N/A   | /                          |  |   |
|            | DBP                   | N/A   | /                          |  |   |
|            | BBP                   | N/A   | /                          |  |   |
| DEHP       | N/A                   | /   |                            |  |   |
| 11         | Pb                    | BL  | /                          | Conformity                             |   |
|            | Cd                    | BL  | /                          |  |   |
|            | Hg                    | BL  | /                          |  |   |
|            | Cr(Cr <sup>6+</sup> ) | BL  | /                          |  |   |
|            | Br                    | PBBs  | BL                         |  | / |
|            |                       | PBDEs                                       |                            |  | / |
|            | DIBP                  | N/A   | N.D.                       |  |   |
|            | DBP                   | N/A   | N.D.                       |  |   |
|            | BBP                   | N/A   | N.D.                       |  |   |
| DEHP       | N/A                   | N.D.  |                            |  |   |
| 12         | Pb                    | BL  | /                          | Conformity                             |   |
|            | Cd                    | BL  | /                          |  |   |
|            | Hg                    | BL  | /                          |  |   |
|            | Cr(Cr <sup>6+</sup> ) | BL  | /                          |  |   |
|            | Br                    | PBBs  | BL                         |  | / |
|            |                       | PBDEs                                       |                            |  | / |
|            | DIBP                  | N/A   | N.D.                       |  |   |
|            | DBP                   | N/A   | N.D.                       |  |   |
|            | BBP                   | N/A   | N.D.                       |  |   |
| DEHP       | N/A                   | N.D.  |                            |  |   |

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Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

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| Test point | Test Item             | X-ray Fluorescence Spectrometry (XRF) mg/kg | Wet Chemistry Method mg/kg | Conclusion |   |
|------------|-----------------------|---|----------------------------|------------|---|
| 13         | Pb                    | BL  | /                          | Conformity |   |
|            | Cd                    | BL  | /                          |            |   |
|            | Hg                    | BL  | /                          |            |   |
|            | Cr(Cr <sup>6+</sup> ) | BL  | /                          |            |   |
|            | Br                    | PBBs  | BL                         |            | / |
|            |                       | PBDEs                                       |                            |            | / |
|            | DIBP                  | N/A   | N.D.                       |            |   |
|            | DBP                   | N/A   | N.D.                       |            |   |
|            | BBP                   | N/A   | N.D.                       |            |   |
| DEHP       | N/A                   | N.D.  |                            |            |   |
| 14         | Pb                    | BL  | /                          | Conformity |   |
|            | Cd                    | BL  | /                          |            |   |
|            | Hg                    | BL  | /                          |            |   |
|            | Cr(Cr <sup>6+</sup> ) | BL  | /                          |            |   |
|            | Br                    | PBBs  | N/A                        |            | / |
|            |                       | PBDEs                                       |                            |            | / |
|            | DIBP                  | N/A   | /                          |            |   |
|            | DBP                   | N/A   | /                          |            |   |
|            | BBP                   | N/A   | /                          |            |   |
| DEHP       | N/A                   | /   |                            |            |   |
| 15         | Pb                    | BL  | /                          | Conformity |   |
|            | Cd                    | BL  | /                          |            |   |
|            | Hg                    | BL  | /                          |            |   |
|            | Cr(Cr <sup>6+</sup> ) | BL  | /                          |            |   |
|            | Br                    | PBBs  | BL                         |            | / |
|            |                       | PBDEs                                       |                            |            | / |
|            | DIBP                  | N/A   | N.D.                       |            |   |
|            | DBP                   | N/A   | N.D.                       |            |   |
|            | BBP                   | N/A   | N.D.                       |            |   |
| DEHP       | N/A                   | N.D.  |                            |            |   |
| 16         | Pb                    | BL  | /                          | Conformity |   |
|            | Cd                    | BL  | /                          |            |   |
|            | Hg                    | BL  | /                          |            |   |
|            | Cr(Cr <sup>6+</sup> ) | BL  | /                          |            |   |
|            | Br                    | PBBs  | N/A                        |            | / |
|            |                       | PBDEs                                       |                            |            | / |
|            | DIBP                  | N/A   | /                          |            |   |
|            | DBP                   | N/A   | /                          |            |   |
|            | BBP                   | N/A   | /                          |            |   |
| DEHP       | N/A                   | /   |                            |            |   |

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| Test point | Test Item             | X-ray Fluorescence Spectrometry (XRF) mg/kg | Wet Chemistry Method mg/kg | Conclusion |      |
|------------|-----------------------|---|----------------------------|------------|------|
| 17         | Pb                    | BL  | /                          | Conformity |      |
|            | Cd                    | BL  | /                          |            |      |
|            | Hg                    | BL  | /                          |            |      |
|            | Cr(Cr <sup>6+</sup> ) | BL  | /                          |            |      |
|            | Br                    | PBBs  | IN                         |            | N.D. |
|            |                       | PBDEs                                       |                            |            | N.D. |
|            | DIBP                  | N/A   | N.D.                       |            |      |
|            | DBP                   | N/A   | N.D.                       |            |      |
|            | BBP                   | N/A   | N.D.                       |            |      |
| DEHP       | N/A                   | N.D.  |                            |            |      |
| 18         | Pb                    | BL  | /                          | Conformity |      |
|            | Cd                    | BL  | /                          |            |      |
|            | Hg                    | BL  | /                          |            |      |
|            | Cr(Cr <sup>6+</sup> ) | BL  | /                          |            |      |
|            | Br                    | PBBs  | N/A                        |            | /    |
|            |                       | PBDEs                                       |                            |            | /    |
|            | DIBP                  | N/A   | /                          |            |      |
|            | DBP                   | N/A   | /                          |            |      |
|            | BBP                   | N/A   | /                          |            |      |
| DEHP       | N/A                   | /   |                            |            |      |
| 19         | Pb                    | BL  | /                          | Conformity |      |
|            | Cd                    | BL  | /                          |            |      |
|            | Hg                    | BL  | /                          |            |      |
|            | Cr(Cr <sup>6+</sup> ) | BL  | /                          |            |      |
|            | Br                    | PBBs  | BL                         |            | /    |
|            |                       | PBDEs                                       |                            |            | /    |
|            | DIBP                  | N/A   | N.D.                       |            |      |
|            | DBP                   | N/A   | N.D.                       |            |      |
|            | BBP                   | N/A   | N.D.                       |            |      |
| DEHP       | N/A                   | N.D.  |                            |            |      |
| 20         | Pb                    | BL  | /                          | Conformity |      |
|            | Cd                    | BL  | /                          |            |      |
|            | Hg                    | BL  | /                          |            |      |
|            | Cr(Cr <sup>6+</sup> ) | BL  | /                          |            |      |
|            | Br                    | PBBs  | BL                         |            | /    |
|            |                       | PBDEs                                       |                            |            | /    |
|            | DIBP                  | N/A   | N.D.                       |            |      |
|            | DBP                   | N/A   | N.D.                       |            |      |
|            | BBP                   | N/A   | N.D.                       |            |      |
| DEHP       | N/A                   | N.D.  |                            |            |      |

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| Test point | Test Item             | X-ray Fluorescence Spectrometry (XRF) mg/kg | Wet Chemistry Method mg/kg | Conclusion |   |
|------------|-----------------------|---|----------------------------|------------|---|
| 21         | Pb                    | BL  | /                          | Conformity |   |
|            | Cd                    | BL  | /                          |            |   |
|            | Hg                    | BL  | /                          |            |   |
|            | Cr(Cr <sup>6+</sup> ) | BL  | /                          |            |   |
|            | Br                    | PBBs  | N/A                        |            | / |
|            |                       | PBDEs                                       |                            |            | / |
|            | DIBP                  | N/A   | /                          |            |   |
|            | DBP                   | N/A   | /                          |            |   |
|            | BBP                   | N/A   | /                          |            |   |
| DEHP       | N/A                   | /   |                            |            |   |
| 22         | Pb                    | BL  | /                          | Conformity |   |
|            | Cd                    | BL  | /                          |            |   |
|            | Hg                    | BL  | /                          |            |   |
|            | Cr(Cr <sup>6+</sup> ) | BL  | /                          |            |   |
|            | Br                    | PBBs  | BL                         |            | / |
|            |                       | PBDEs                                       |                            |            | / |
|            | DIBP                  | N/A   | N.D.                       |            |   |
|            | DBP                   | N/A   | N.D.                       |            |   |
|            | BBP                   | N/A   | N.D.                       |            |   |
| DEHP       | N/A                   | N.D.  |                            |            |   |
| 23         | Pb                    | BL  | /                          | Conformity |   |
|            | Cd                    | BL  | /                          |            |   |
|            | Hg                    | BL  | /                          |            |   |
|            | Cr(Cr <sup>6+</sup> ) | BL  | /                          |            |   |
|            | Br                    | PBBs  | N/A                        |            | / |
|            |                       | PBDEs                                       |                            |            | / |
|            | DIBP                  | N/A   | /                          |            |   |
|            | DBP                   | N/A   | /                          |            |   |
|            | BBP                   | N/A   | /                          |            |   |
| DEHP       | N/A                   | /   |                            |            |   |
| 24         | Pb                    | BL  | /                          | Conformity |   |
|            | Cd                    | BL  | /                          |            |   |
|            | Hg                    | BL  | /                          |            |   |
|            | Cr(Cr <sup>6+</sup> ) | BL  | /                          |            |   |
|            | Br                    | PBBs  | BL                         |            | / |
|            |                       | PBDEs                                       |                            |            | / |
|            | DIBP                  | N/A   | N.D.                       |            |   |
|            | DBP                   | N/A   | N.D.                       |            |   |
|            | BBP                   | N/A   | N.D.                       |            |   |
| DEHP       | N/A                   | N.D.  |                            |            |   |

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| Test point | Test Item             | X-ray Fluorescence Spectrometry (XRF) mg/kg | Wet Chemistry Method mg/kg | Conclusion |   |
|------------|-----------------------|---|----------------------------|------------|---|
| 25         | Pb                    | BL  | /                          | Conformity |   |
|            | Cd                    | BL  | /                          |            |   |
|            | Hg                    | BL  | /                          |            |   |
|            | Cr(Cr <sup>6+</sup> ) | IN  | N.D.                       |            |   |
|            | Br                    | PBBs  | N/A                        |            | / |
|            |                       | PBDEs                                       |                            |            | / |
|            | DIBP                  | N/A   | /                          |            |   |
|            | DBP                   | N/A   | /                          |            |   |
|            | BBP                   | N/A   | /                          |            |   |
| DEHP       | N/A                   | /   |                            |            |   |
| 26         | Pb                    | BL  | /                          | Conformity |   |
|            | Cd                    | BL  | /                          |            |   |
|            | Hg                    | BL  | /                          |            |   |
|            | Cr(Cr <sup>6+</sup> ) | BL  | /                          |            |   |
|            | Br                    | PBBs  | BL                         |            | / |
|            |                       | PBDEs                                       |                            |            | / |
|            | DIBP                  | N/A   | N.D.                       |            |   |
|            | DBP                   | N/A   | N.D.                       |            |   |
|            | BBP                   | N/A   | N.D.                       |            |   |
| DEHP       | N/A                   | N.D.  |                            |            |   |
| 27         | Pb                    | BL  | /                          | Conformity |   |
|            | Cd                    | BL  | /                          |            |   |
|            | Hg                    | BL  | /                          |            |   |
|            | Cr(Cr <sup>6+</sup> ) | BL  | /                          |            |   |
|            | Br                    | PBBs  | N/A                        |            | / |
|            |                       | PBDEs                                       |                            |            | / |
|            | DIBP                  | N/A   | /                          |            |   |
|            | DBP                   | N/A   | /                          |            |   |
|            | BBP                   | N/A   | /                          |            |   |
| DEHP       | N/A                   | /   |                            |            |   |
| 28         | Pb                    | BL  | /                          | Conformity |   |
|            | Cd                    | BL  | /                          |            |   |
|            | Hg                    | BL  | /                          |            |   |
|            | Cr(Cr <sup>6+</sup> ) | BL  | /                          |            |   |
|            | Br                    | PBBs  | BL                         |            | / |
|            |                       | PBDEs                                       |                            |            | / |
|            | DIBP                  | N/A   | N.D.                       |            |   |
|            | DBP                   | N/A   | N.D.                       |            |   |
|            | BBP                   | N/A   | N.D.                       |            |   |
| DEHP       | N/A                   | N.D.  |                            |            |   |

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| Test point | Test Item             | X-ray Fluorescence Spectrometry (XRF) mg/kg | Wet Chemistry Method mg/kg | Conclusion |   |
|------------|-----------------------|---|----------------------------|------------|---|
| 29         | Pb                    | BL  | /                          | Conformity |   |
|            | Cd                    | BL  | /                          |            |   |
|            | Hg                    | BL  | /                          |            |   |
|            | Cr(Cr <sup>6+</sup> ) | IN  | N.D.                       |            |   |
|            | Br                    | PBBs  | N/A                        |            | / |
|            |                       | PBDEs                                       |                            |            | / |
|            | DIBP                  | N/A   | /                          |            |   |
|            | DBP                   | N/A   | /                          |            |   |
|            | BBP                   | N/A   | /                          |            |   |
| DEHP       | N/A                   | /   |                            |            |   |
| 30         | Pb                    | BL  | /                          | Conformity |   |
|            | Cd                    | BL  | /                          |            |   |
|            | Hg                    | BL  | /                          |            |   |
|            | Cr(Cr <sup>6+</sup> ) | BL  | /                          |            |   |
|            | Br                    | PBBs  | N/A                        |            | / |
|            |                       | PBDEs                                       |                            |            | / |
|            | DIBP                  | N/A   | /                          |            |   |
|            | DBP                   | N/A   | /                          |            |   |
|            | BBP                   | N/A   | /                          |            |   |
| DEHP       | N/A                   | /   |                            |            |   |
| 31         | Pb                    | BL  | /                          | Conformity |   |
|            | Cd                    | BL  | /                          |            |   |
|            | Hg                    | BL  | /                          |            |   |
|            | Cr(Cr <sup>6+</sup> ) | BL  | /                          |            |   |
|            | Br                    | PBBs  | BL                         |            | / |
|            |                       | PBDEs                                       |                            |            | / |
|            | DIBP                  | N/A   | N.D.                       |            |   |
|            | DBP                   | N/A   | N.D.                       |            |   |
|            | BBP                   | N/A   | N.D.                       |            |   |
| DEHP       | N/A                   | N.D.  |                            |            |   |
| 32         | Pb                    | BL  | /                          | Conformity |   |
|            | Cd                    | BL  | /                          |            |   |
|            | Hg                    | BL  | /                          |            |   |
|            | Cr(Cr <sup>6+</sup> ) | BL  | /                          |            |   |
|            | Br                    | PBBs  | BL                         |            | / |
|            |                       | PBDEs                                       |                            |            | / |
|            | DIBP                  | N/A   | N.D.                       |            |   |
|            | DBP                   | N/A   | N.D.                       |            |   |
|            | BBP                   | N/A   | N.D.                       |            |   |
| DEHP       | N/A                   | N.D.  |                            |            |   |

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| Test point | Test Item             | X-ray Fluorescence Spectrometry (XRF) mg/kg | Wet Chemistry Method mg/kg | Conclusion |   |
|------------|-----------------------|---|----------------------------|------------|---|
| 33         | Pb                    | BL  | /                          | Conformity |   |
|            | Cd                    | BL  | /                          |            |   |
|            | Hg                    | BL  | /                          |            |   |
|            | Cr(Cr <sup>6+</sup> ) | BL  | /                          |            |   |
|            | Br                    | PBBs  | N/A                        |            | / |
|            |                       | PBDEs                                       |                            |            | / |
|            | DIBP                  | N/A   | /                          |            |   |
|            | DBP                   | N/A   | /                          |            |   |
|            | BBP                   | N/A   | /                          |            |   |
| DEHP       | N/A                   | /   |                            |            |   |
| 34         | Pb                    | BL  | /                          | Conformity |   |
|            | Cd                    | BL  | /                          |            |   |
|            | Hg                    | BL  | /                          |            |   |
|            | Cr(Cr <sup>6+</sup> ) | BL  | /                          |            |   |
|            | Br                    | PBBs  | N/A                        |            | / |
|            |                       | PBDEs                                       |                            |            | / |
|            | DIBP                  | N/A   | /                          |            |   |
|            | DBP                   | N/A   | /                          |            |   |
|            | BBP                   | N/A   | /                          |            |   |
| DEHP       | N/A                   | /   |                            |            |   |
| 35         | Pb                    | BL  | /                          | Conformity |   |
|            | Cd                    | BL  | /                          |            |   |
|            | Hg                    | BL  | /                          |            |   |
|            | Cr(Cr <sup>6+</sup> ) | IN  | N.D.                       |            |   |
|            | Br                    | PBBs  | N/A                        |            | / |
|            |                       | PBDEs                                       |                            |            | / |
|            | DIBP                  | N/A   | /                          |            |   |
|            | DBP                   | N/A   | /                          |            |   |
|            | BBP                   | N/A   | /                          |            |   |
| DEHP       | N/A                   | /   |                            |            |   |
| 36         | Pb                    | BL  | /                          | Conformity |   |
|            | Cd                    | BL  | /                          |            |   |
|            | Hg                    | BL  | /                          |            |   |
|            | Cr(Cr <sup>6+</sup> ) | IN  | N.D.                       |            |   |
|            | Br                    | PBBs  | N/A                        |            | / |
|            |                       | PBDEs                                       |                            |            | / |
|            | DIBP                  | N/A   | /                          |            |   |
|            | DBP                   | N/A   | /                          |            |   |
|            | BBP                   | N/A   | /                          |            |   |
| DEHP       | N/A                   | /   |                            |            |   |

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| Test point | Test Item             | X-ray Fluorescence Spectrometry (XRF) mg/kg | Wet Chemistry Method mg/kg | Conclusion |   |
|------------|-----------------------|---|----------------------------|------------|---|
| 37         | Pb                    | BL  | /                          | Conformity |   |
|            | Cd                    | BL  | /                          |            |   |
|            | Hg                    | BL  | /                          |            |   |
|            | Cr(Cr <sup>6+</sup> ) | IN  | N.D.                       |            |   |
|            | Br                    | PBBs  | N/A                        |            | / |
|            |                       | PBDEs                                       |                            |            | / |
|            | DIBP                  | N/A   | /                          |            |   |
|            | DBP                   | N/A   | /                          |            |   |
|            | BBP                   | N/A   | /                          |            |   |
| DEHP       | N/A                   | /   |                            |            |   |
| 38         | Pb                    | BL  | /                          | Conformity |   |
|            | Cd                    | BL  | /                          |            |   |
|            | Hg                    | BL  | /                          |            |   |
|            | Cr(Cr <sup>6+</sup> ) | IN  | N.D.                       |            |   |
|            | Br                    | PBBs  | N/A                        |            | / |
|            |                       | PBDEs                                       |                            |            | / |
|            | DIBP                  | N/A   | /                          |            |   |
|            | DBP                   | N/A   | /                          |            |   |
|            | BBP                   | N/A   | /                          |            |   |
| DEHP       | N/A                   | /   |                            |            |   |
| 39         | Pb                    | BL  | /                          | Conformity |   |
|            | Cd                    | BL  | /                          |            |   |
|            | Hg                    | BL  | /                          |            |   |
|            | Cr(Cr <sup>6+</sup> ) | BL  | /                          |            |   |
|            | Br                    | PBBs  | BL                         |            | / |
|            |                       | PBDEs                                       |                            |            | / |
|            | DIBP                  | N/A   | N.D.                       |            |   |
|            | DBP                   | N/A   | N.D.                       |            |   |
|            | BBP                   | N/A   | N.D.                       |            |   |
| DEHP       | N/A                   | N.D.  |                            |            |   |

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| 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 | $BL \leq 300 - 3\sigma < X$                          | N/A  | $BL \leq 250 - 3\sigma < X$                          |

**Remark:**

- BL= Below Limit, OL= Over limited, IN = Inconclusive, Scanning by XRF and detected by chemical method, N/A = Not applicable.
- 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.
- The XRF scanning test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
- Boiling-water-extraction:(X represents the results of the tested sample)

| Number | Colorimetric result (Cr(VI) concentration)                             | Judgement   |
|--------|--|-------------|
| 1      | $X < 0.1 \mu\text{g}/\text{cm}^2$                                      | Negative    |
| 2      | $0.1 \mu\text{g}/\text{cm}^2 \leq X \leq 0.13 \mu\text{g}/\text{cm}^2$ | Uncertainty |
| 3      | $X > 0.13 \mu\text{g}/\text{cm}^2$                                     | Positive    |

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.

- 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.

| Exemption clause | Exemption  |
|------------------|--|
| 6(c)             | Copper alloy containing up to 4 % lead by weight |

**Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 50**
**- Polycyclic-aromatic Hydrocarbons (PAHs) Content**

Test Methods and Equipment: AfPS GS 2019:01 PAK; GC-MS

| Test Item(s)                | Unit  | Limit | MDL | Test Result(s) |            |            |
|-----------------------------|-------|-------|-----|----------------|------------|------------|
|                             |       |       |     | 1              | 3          | 7 +28      |
| Benzo[a]pyrene(BaP)         | mg/kg | 1     | 0.1 | N.D.           | N.D.       | N.D.       |
| Benzo[e]pyrene(BeP)         | mg/kg | 1     | 0.1 | N.D.           | N.D.       | N.D.       |
| Benzo[a]anthracene(BaA)     | mg/kg | 1     | 0.1 | N.D.           | N.D.       | N.D.       |
| Benzo[b]fluoranthene(BbF)   | mg/kg | 1     | 0.1 | N.D.           | N.D.       | N.D.       |
| Benzo[j]fluoranthene(BjFA)  | mg/kg | 1     | 0.1 | N.D.           | N.D.       | N.D.       |
| Benzo[k]fluoranthene(BkF)   | mg/kg | 1     | 0.1 | N.D.           | N.D.       | N.D.       |
| Chrysene(CHR)               | mg/kg | 1     | 0.1 | N.D.           | N.D.       | N.D.       |
| Dibenzo[a,h]anthracene(DBA) | mg/kg | 1     | 0.1 | N.D.           | N.D.       | N.D.       |
| Conclusion                  |       |       |     | Conformity     | Conformity | Conformity |

Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 7 +28

## Limit requirements of Polycyclic-aromatic Hydrocarbons (PAHs) (Unit: mg/kg)

| Items  | CAS No.  | Extender oils or used for the production of tyres or parts of tyres | Any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity | Toys, including activity toys, and childcare articles, any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity |
|--|----------|---|--|---|
| Benzo[a]pyrene(BaP)                            | 50-32-8  | ≤ 1   | ≤ 1  | ≤ 0.5   |
| Benzo[e]pyrene(BeP)                            | 192-97-2 | /   | ≤ 1  | ≤ 0.5   |
| Benzo[a]anthracene(BaA)                        | 56-55-3  | /   | ≤ 1  | ≤ 0.5   |
| Benzo[b]fluoranthene(BbF)                      | 205-99-2 | /   | ≤ 1  | ≤ 0.5   |
| Benzo[j]fluoranthene(BjFA)                     | 205-82-3 | /   | ≤ 1  | ≤ 0.5   |
| Benzo[k]fluoranthene(BkF)                      | 207-08-9 | /   | ≤ 1  | ≤ 0.5   |
| Chrysene(CHR)                                  | 218-01-9 | /   | ≤ 1  | ≤ 0.5   |
| Dibenzo[a,h]anthracene(DBA)                    | 53-70-3  | /   | ≤ 1  | ≤ 0.5   |
| Sum of BaP+ BeP+ BaA+ BbF+ BjFA+ BkF+ CHR+ DBA | /        | ≤ 10  | /  | /   |

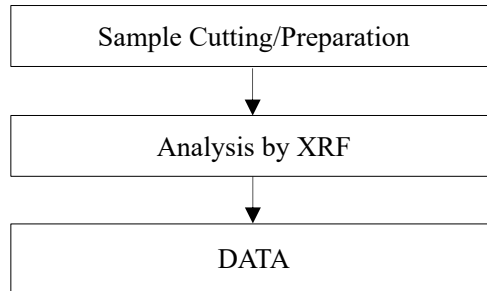
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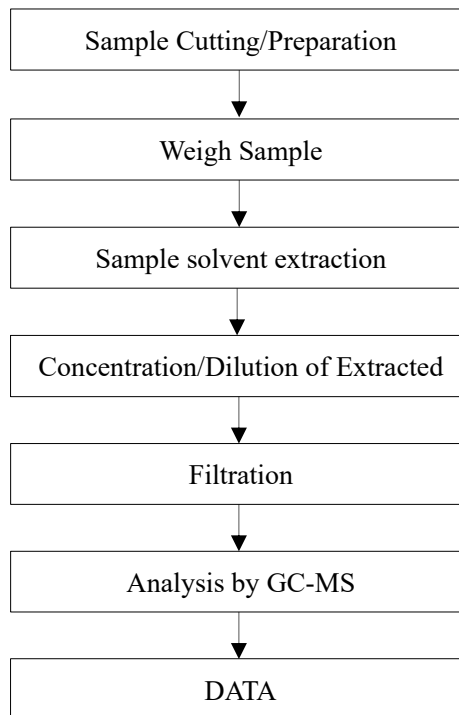
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### Test Flow Chart of XRF



### Test Flow Chart of Phthalates



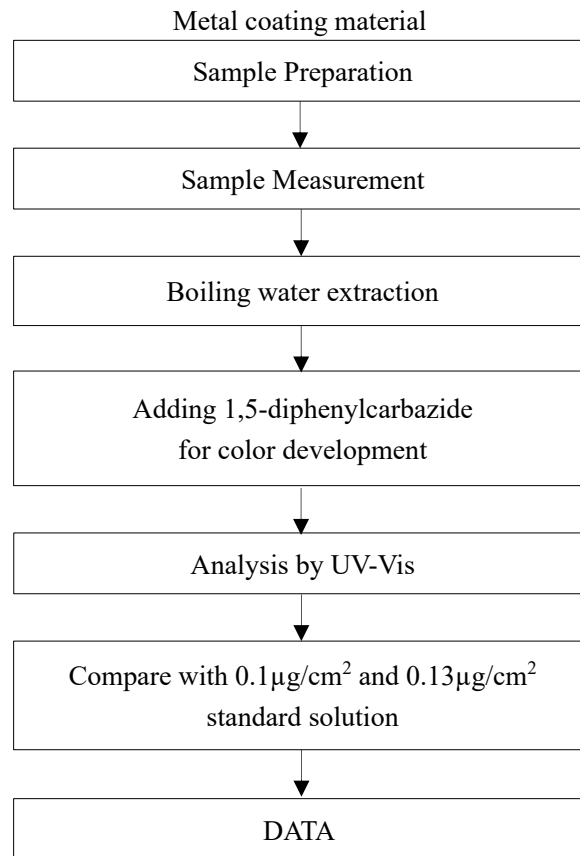
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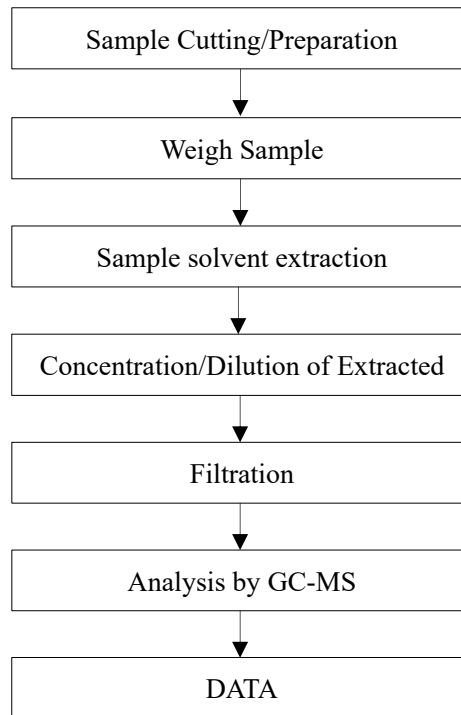
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### Test Flow Chart of Hexavalent Chromium (Cr<sup>6+</sup>)

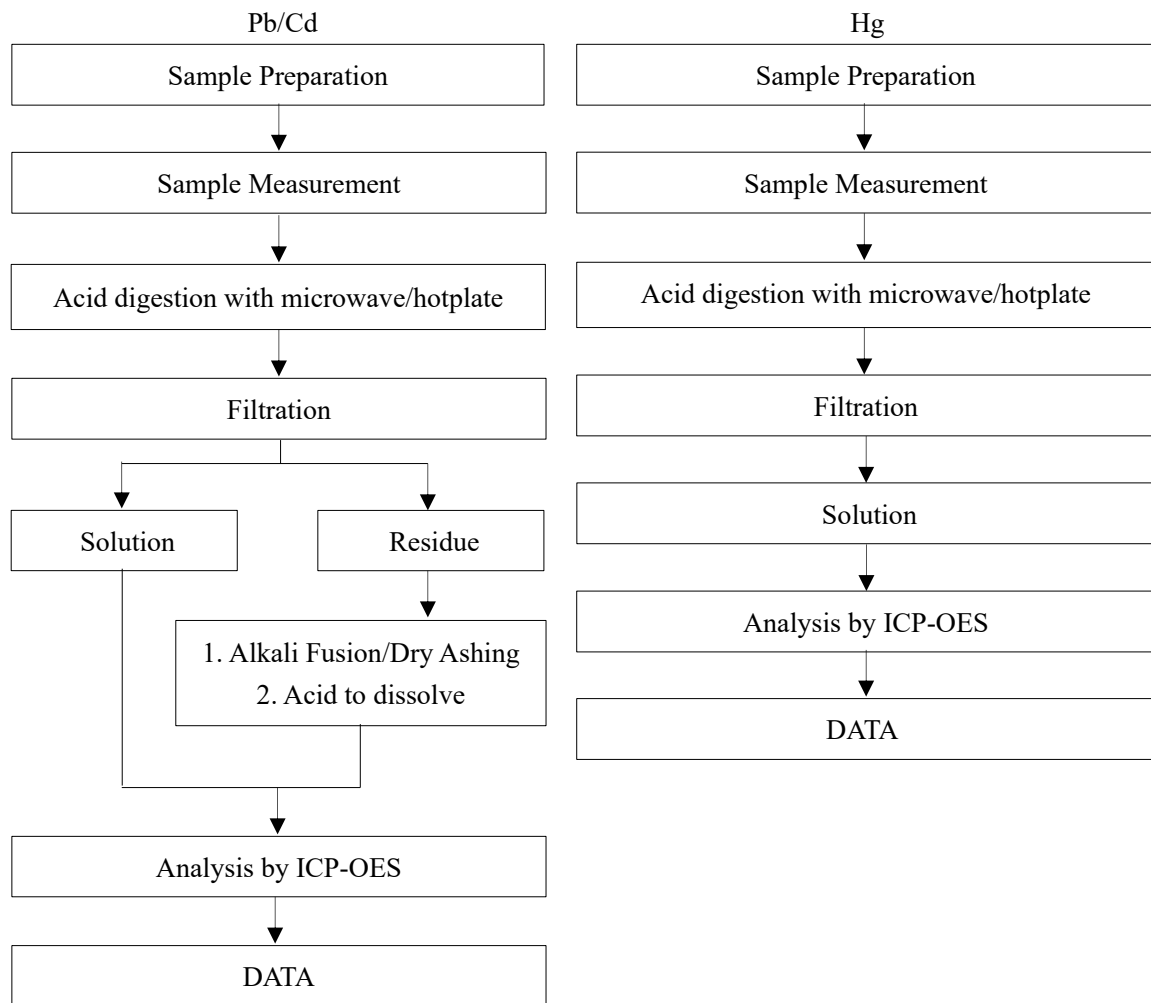


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**Test Flow Chart of PBBs and PBDEs**

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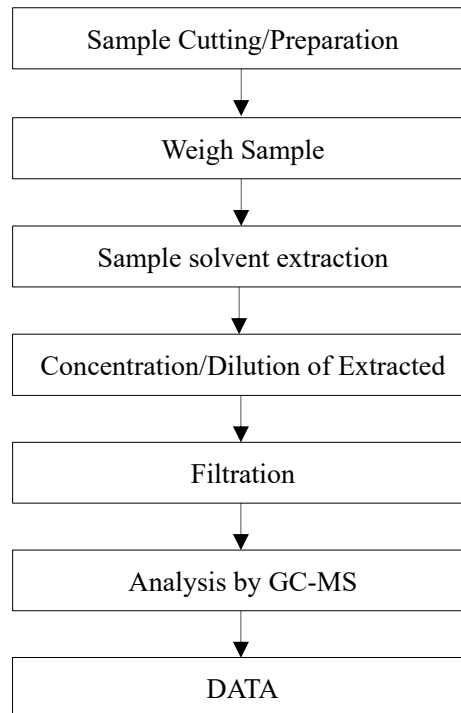
### Test Flow Chart of Lead, Cadmium and Mercury



These sample were dissolved totally by pre-conditioning method according to above flow chart

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### Test Flow Chart of Polycyclic-aromatic Hydrocarbons (PAHs)



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2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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

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