



# TEST REPORT

Report No.: CCI220400240ENR1

Report Date: Apr. 28, 2022

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**Applicant** : NEWARE Technology Limited

**Address** : 15/F, Tower3, Excellence City, No.128, Zhongkang Rd., Shenzhen, CHINA 518049

(The following sample(s) was (were) submitted and identified by client as)

**Sample Name** : Battery testing system  
 100V100A, 60V30A, 60V50A , 60V100A, 60V200A, 100V30A, 100V50A, 120V30A,  
**Model/Item No.** : 120V50A, 120V100A, 120V200A,150V100A, 150V120A, 200V100A, 200V300A,  
 600V150A, 1000V200A, 1000V125A, 1000V100A,10V100A  
**Test Period** : From Apr. 21, 2022 to Apr. 26, 2022  
**Report Revise Date** : Apr. 28, 2022  
**Tests Conducted** : As requested by the applicant, for details refer to next page(s).

## Executive Summary:

| No. | TESTED SAMPLE                             | STANDARD / REQUIREMENT  | CONCLUSION |
|-----|---|---|------------|
| 1   | Tested material(s) of submitted sample(s) | Pb, Cd, Hg, Cr (VI), PBBs and PBDEs - Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 and its subsequent amendments | PASS       |
| 2   | Tested material(s) of submitted sample(s) | Phthalates - Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 and its subsequent amendments                          | PASS       |

Signed for and on behalf of  
 Compliance Control Institute (Guangzhou) Co., Ltd.

Approved by:   
 Pascal SHI/Technical Director



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## TESTS CONDUCTED:

1 Pb, Cd, Hg, Cr (VI), PBBs and PBDEs

Test Method: IEC62321-3-1:2013, IEC62321-4:2013+A1:2017, IEC62321-5:2013, IEC62321-6:2015,

IEC62321-7-1:2015, IEC 62321-7-2:2017, analyzed by EDXRF & ICP-OES & GC-MS & UV-Vis.

| No. | Specimen Description                       | Test Results (mg/kg) <sup>(1)</sup> <sup>(2)</sup> |    |    |          |              | Conclusion | Comments |
|-----|--|--|----|----|----------|--------------|------------|----------|
|     |  | Pb   | Cd | Hg | Cr (VI)  | PBBs & PBDEs |            |          |
| 1   | Grey metal                                 | BL   | BL | BL | BL       | NA           | PASS       | /        |
| 2   | Silvery metal                              | BL   | BL | BL | Negative | NA           | PASS       | /        |
| 3   | Grey metal with black printing             | BL   | BL | BL | BL       | NA           | PASS       | /        |
| 4   | Silvery metal                              | BL   | BL | BL | BL       | NA           | PASS       | /        |
| 5   | Transparent plastic                        | BL   | BL | BL | BL       | BL           | PASS       | /        |
| 6   | Light blue metal                           | BL   | BL | BL | BL       | NA           | PASS       | /        |
| 7   | Black plastic                              | BL   | BL | BL | BL       | N.D.         | PASS       | /        |
| 8   | Silvery metal                              | BL   | BL | BL | BL       | NA           | PASS       | /        |
| 9   | Light blue metal                           | BL   | BL | BL | BL       | NA           | PASS       | /        |
| 10  | Light blue metal                           | BL   | BL | BL | BL       | NA           | PASS       | /        |
| 11  | White adhesive plastic with black printing | BL   | BL | BL | BL       | BL           | PASS       | /        |
| 12  | Silvery metal                              | BL   | BL | BL | Negative | NA           | PASS       | /        |
| 13  | White plastic                              | BL   | BL | BL | BL       | BL           | PASS       | /        |
| 14  | Silvery metal                              | BL   | BL | BL | BL       | NA           | PASS       | /        |
| 15  | Black plastic                              | BL   | BL | BL | BL       | N.D.         | PASS       | /        |
| 16  | Golden metal                               | BL   | BL | BL | BL       | NA           | PASS       | /        |
| 17  | Silvery metal with grey printing           | BL   | BL | BL | BL       | NA           | PASS       | /        |

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| No. | Specimen Description                       | Test Results (mg/kg) <sup>(1) (2)</sup> |    |    |         |              | Conclusion | Comments |
|-----|--|---|----|----|---------|--------------|------------|----------|
|     |  | Pb                                      | Cd | Hg | Cr (VI) | PBBs & PBDEs |            |          |
| 18  | Beige paper                                | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 19  | Grey foil                                  | BL                                      | BL | BL | BL      | NA           | PASS       | /        |
| 20  | Black rubber                               | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 21  | Black plastic                              | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 22  | Silvery grey metal                         | BL                                      | BL | BL | BL      | NA           | PASS       | /        |
| 23  | Black solid                                | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 24  | Black solid                                | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 25  | Yellow capacitance                         | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 26  | White ceramic with black printing          | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 27  | Black solid                                | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 28  | Black solid                                | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 29  | Black solid                                | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 30  | Dark grey solid                            | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 31  | Bronze metal                               | BL                                      | BL | BL | BL      | NA           | PASS       | /        |
| 32  | Black solid with white printing            | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 33  | White adhesive plastic with black printing | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 34  | Black plastic                              | BL                                      | BL | BL | BL      | N.D.         | PASS       | /        |
| 35  | Beige plastic                              | BL                                      | BL | BL | BL      | N.D.         | PASS       | /        |
| 36  | Silvery/copper metal                       | BL                                      | BL | BL | BL      | NA           | PASS       | /        |



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| No. | Specimen Description            | Test Results (mg/kg) <sup>(1)</sup> <sup>(2)</sup> |    |    |         |              | Conclusion | Comments  |
|-----|---------------------------------|--|----|----|---------|--------------|------------|-----------|
|     |                                 | Pb   | Cd | Hg | Cr (VI) | PBBs & PBDEs |            |           |
| 37  | Bronze metal                    | BL   | BL | BL | BL      | NA           | PASS       | /         |
| 38  | Silvery metal                   | BL   | BL | BL | BL      | NA           | PASS       | /         |
| 39  | White plastic                   | BL   | BL | BL | BL      | N.D.         | PASS       | /         |
| 40  | Green plastic                   | BL   | BL | BL | BL      | N.D.         | PASS       | /         |
| 41  | Golden metal                    | 13550 <sup>#</sup>                                 | BL | BL | BL      | NA           | PASS       | Remark(3) |
| 42  | Silvery metal                   | BL   | BL | BL | BL      | NA           | PASS       | /         |
| 43  | Black solid                     | BL   | BL | BL | BL      | BL           | PASS       | /         |
| 44  | Black solid                     | BL   | BL | BL | BL      | BL           | PASS       | /         |
| 45  | Black solid                     | BL   | BL | BL | BL      | BL           | PASS       | /         |
| 46  | White plastic                   | BL   | BL | BL | BL      | N.D.         | PASS       | /         |
| 47  | Red plastic with white printing | BL   | BL | BL | BL      | N.D.         | PASS       | /         |
| 48  | Black plastic                   | BL   | BL | BL | BL      | N.D.         | PASS       | /         |
| 49  | Light golden metal              | BL   | BL | BL | BL      | NA           | PASS       | /         |
| 50  | Beige solid                     | BL   | BL | BL | BL      | BL           | PASS       | /         |
| 51  | Dark green plastic              | BL   | BL | BL | BL      | BL           | PASS       | /         |
| 52  | White soft plastic              | BL   | BL | BL | BL      | BL           | PASS       | /         |
| 53  | Black solid                     | BL   | BL | BL | BL      | BL           | PASS       | /         |
| 54  | Black solid                     | BL   | BL | BL | BL      | BL           | PASS       | /         |
| 55  | Black solid                     | BL   | BL | BL | BL      | BL           | PASS       | /         |



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|-----|--|---|----|----|---------|--------------|------------|----------|
|     |  | Pb                                      | Cd | Hg | Cr (VI) | PBBs & PBDEs |            |          |
| 56  | Black solid                                      | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 57  | Silvery/golden metal                             | BL                                      | BL | BL | BL      | NA           | PASS       | /        |
| 58  | Black solid                                      | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 59  | Golden metal                                     | BL                                      | BL | BL | BL      | NA           | PASS       | /        |
| 60  | Black plastic                                    | BL                                      | BL | BL | BL      | N.D.         | PASS       | /        |
| 61  | White LED  | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 62  | Black solid                                      | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 63  | White solid                                      | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 64  | Brown solid                                      | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 65  | Silvery metal                                    | BL                                      | BL | BL | BL      | NA           | PASS       | /        |
| 66  | Green PCB with white printing                    | BL                                      | BL | BL | BL      | N.D.         | PASS       | /        |
| 67  | Green PCB with white printing with silvery foil  | BL                                      | BL | BL | BL      | N.D.         | PASS       | /        |
| 68  | Grey metal                                       | BL                                      | BL | BL | BL      | NA           | PASS       | /        |
| 69  | Light blue metal                                 | BL                                      | BL | BL | BL      | NA           | PASS       | /        |
| 70  | Silvery adhesive plastic with black/red printing | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 71  | Black plastic                                    | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 72  | Gun metal  | BL                                      | BL | BL | BL      | NA           | PASS       | /        |
| 73  | Silvery metal                                    | BL                                      | BL | BL | BL      | NA           | PASS       | /        |
| 74  | Light yellow adhesive plastic                    | BL                                      | BL | BL | BL      | N.D.         | PASS       | /        |

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| No. | Specimen Description                   | Test Results (mg/kg) <sup>(1)</sup> <sup>(2)</sup> |    |    |         |              | Conclusion | Comments |
|-----|--|--|----|----|---------|--------------|------------|----------|
|     |  | Pb   | Cd | Hg | Cr (VI) | PBBs & PBDEs |            |          |
| 75  | Dark grey solid                        | BL   | BL | BL | BL      | BL           | PASS       | /        |
| 76  | White semitransparent plastic          | BL   | BL | BL | BL      | BL           | PASS       | /        |
| 77  | Bronze metal                           | BL   | BL | BL | BL      | NA           | PASS       | /        |
| 78  | Black solid                            | BL   | BL | BL | BL      | BL           | PASS       | /        |
| 79  | Gun metal                              | BL   | BL | BL | BL      | NA           | PASS       | /        |
| 80  | Black solid                            | BL   | BL | BL | BL      | N.D.         | PASS       | /        |
| 81  | Silvery/copper metal                   | BL   | BL | BL | BL      | NA           | PASS       | /        |
| 82  | Grey soft plastic                      | BL   | BL | BL | BL      | BL           | PASS       | /        |
| 83  | Silvery grey metal                     | BL   | BL | BL | BL      | NA           | PASS       | /        |
| 84  | Red metal                              | BL   | BL | BL | BL      | NA           | PASS       | /        |
| 85  | Bronze metal                           | BL   | BL | BL | BL      | NA           | PASS       | /        |
| 86  | Black plastic                          | BL   | BL | BL | BL      | BL           | PASS       | /        |
| 87  | Black solid                            | BL   | BL | BL | BL      | BL           | PASS       | /        |
| 88  | Black soft plastic with white printing | BL   | BL | BL | BL      | BL           | PASS       | /        |
| 89  | Black solid                            | BL   | BL | BL | BL      | BL           | PASS       | /        |
| 90  | Brown plastic with white printing      | BL   | BL | BL | BL      | BL           | PASS       | /        |
| 91  | Silvery metal                          | BL   | BL | BL | BL      | NA           | PASS       | /        |
| 92  | Transparent adhesive plastic           | BL   | BL | BL | BL      | BL           | PASS       | /        |
| 93  | Brown paper                            | BL   | BL | BL | BL      | BL           | PASS       | /        |



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| No. | Specimen Description                  | Test Results (mg/kg) <sup>(1) (2)</sup> |    |    |         |              | Conclusion | Comments  |
|-----|---------------------------------------|---|----|----|---------|--------------|------------|-----------|
|     |                                       | Pb                                      | Cd | Hg | Cr (VI) | PBBs & PBDEs |            |           |
| 94  | Grey foil                             | BL                                      | BL | BL | BL      | NA           | PASS       | /         |
| 95  | Black rubber                          | BL                                      | BL | BL | BL      | BL           | PASS       | /         |
| 96  | Silvery grey metal                    | BL                                      | BL | BL | BL      | NA           | PASS       | /         |
| 97  | Green plastic                         | BL                                      | BL | BL | BL      | BL           | PASS       | /         |
| 98  | Silvery metal                         | BL                                      | BL | BL | BL      | NA           | PASS       | /         |
| 99  | Dark blue plastic with white printing | BL                                      | BL | BL | BL      | BL           | PASS       | /         |
| 100 | Tan solid with black printing         | BL                                      | BL | BL | BL      | BL           | PASS       | /         |
| 101 | White plastic                         | BL                                      | BL | BL | BL      | BL           | PASS       | /         |
| 102 | Blue capacitance                      | BL                                      | BL | BL | BL      | BL           | PASS       | /         |
| 103 | Dark blue capacitance                 | BL                                      | BL | BL | BL      | BL           | PASS       | /         |
| 104 | Black plastic with white printing     | BL                                      | BL | BL | BL      | BL           | PASS       | /         |
| 105 | Light blue capacitance                | BL                                      | BL | BL | BL      | N.D.         | PASS       | /         |
| 106 | Green capacitance                     | BL                                      | BL | BL | BL      | BL           | PASS       | /         |
| 107 | Black solid                           | BL                                      | BL | BL | BL      | N.D.         | PASS       | /         |
| 108 | Silvery/copper metal                  | 4390 <sup>#</sup>                       | BL | BL | BL      | NA           | PASS       | Remark(3) |
| 109 | Black plastic with white printing     | BL                                      | BL | BL | BL      | BL           | PASS       | /         |
| 110 | Grey soft plastic                     | BL                                      | BL | BL | BL      | BL           | PASS       | /         |
| 111 | White ceramic with black printing     | BL                                      | BL | BL | BL      | BL           | PASS       | /         |
| 112 | Black solid                           | BL                                      | BL | BL | BL      | N.D.         | PASS       | /         |



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|-----|--|---|----|----|----------|--------------|------------|----------|
|     |  | Pb                                      | Cd | Hg | Cr (VI)  | PBBs & PBDEs |            |          |
| 113 | Black solid                                      | BL                                      | BL | BL | BL       | BL           | PASS       | /        |
| 114 | Black solid                                      | BL                                      | BL | BL | BL       | BL           | PASS       | /        |
| 115 | Yellow plastic                                   | BL                                      | BL | BL | BL       | N.D.         | PASS       | /        |
| 116 | Silvery metal                                    | BL                                      | BL | BL | BL       | NA           | PASS       | /        |
| 117 | Light yellow PCB with green/black printing       | BL                                      | BL | BL | BL       | N.D.         | PASS       | /        |
| 118 | White adhesive paper with black printing         | BL                                      | BL | BL | BL       | BL           | PASS       | /        |
| 119 | Silvery metal                                    | BL                                      | BL | BL | Negative | NA           | PASS       | /        |
| 120 | Transparent adhesive plastic with black printing | BL                                      | BL | BL | BL       | BL           | PASS       | /        |
| 121 | Transparent plastic                              | BL                                      | BL | BL | BL       | N.D.         | PASS       | /        |
| 122 | Silvery metal                                    | BL                                      | BL | BL | BL       | NA           | PASS       | /        |
| 123 | Black plastic                                    | BL                                      | BL | BL | BL       | N.D.         | PASS       | /        |
| 124 | Grey soft plastic                                | BL                                      | BL | BL | BL       | BL           | PASS       | /        |
| 125 | Black plastic with glue                          | BL                                      | BL | BL | BL       | N.D.         | PASS       | /        |
| 126 | Black plastic                                    | BL                                      | BL | BL | BL       | BL           | PASS       | /        |
| 127 | Silvery grey metal                               | BL                                      | BL | BL | BL       | NA           | PASS       | /        |
| 128 | Blue plastic                                     | BL                                      | BL | BL | BL       | BL           | PASS       | /        |
| 129 | Red plastic                                      | BL                                      | BL | BL | BL       | BL           | PASS       | /        |
| 130 | Black plastic                                    | BL                                      | BL | BL | BL       | BL           | PASS       | /        |
| 131 | Silvery metal                                    | BL                                      | BL | BL | BL       | NA           | PASS       | /        |

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|-----|---|---|----|----|---------|--------------|------------|----------|
|     |   | Pb                                      | Cd | Hg | Cr (VI) | PBBs & PBDEs |            |          |
| 132 | Black plastic with white printing                   | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 133 | Red plastic   | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 134 | Yellow/green plastic with black printing            | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 135 | Yellow plastic                                      | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 136 | Dark green plastic                                  | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 137 | White plastic with black printing                   | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 138 | White plastic                                       | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 139 | Silvery metal                                       | BL                                      | BL | BL | BL      | NA           | PASS       | /        |
| 140 | Black plastic                                       | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 141 | Silvery metal                                       | BL                                      | BL | BL | BL      | NA           | PASS       | /        |
| 142 | Black plastic                                       | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 143 | Grey/black coating                                  | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 144 | Silvery metal                                       | BL                                      | BL | BL | BL      | NA           | PASS       | /        |
| 145 | Silvery metal                                       | BL                                      | BL | BL | BL      | NA           | PASS       | /        |
| 146 | Silvery adhesive plastic with golden/black printing | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 147 | Black plastic                                       | BL                                      | BL | BL | BL      | N.D.         | PASS       | /        |
| 148 | Black plastic                                       | BL                                      | BL | BL | BL      | N.D.         | PASS       | /        |
| 149 | Black metal   | BL                                      | BL | BL | BL      | NA           | PASS       | /        |
| 150 | White plastic                                       | BL                                      | BL | BL | BL      | BL           | PASS       | /        |

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|-----|-------------------------------|--|----|----|----------|--------------|------------|----------|
|     |                               | Pb   | Cd | Hg | Cr (VI)  | PBBs & PBDEs |            |          |
| 151 | Bronze metal                  | BL   | BL | BL | BL       | NA           | PASS       | /        |
| 152 | Silvery metal                 | BL   | BL | BL | Negative | NA           | PASS       | /        |
| 153 | Silvery metal                 | BL   | BL | BL | Negative | NA           | PASS       | /        |
| 154 | Brown plastic                 | BL   | BL | BL | BL       | BL           | PASS       | /        |
| 155 | Silvery metal                 | BL   | BL | BL | Negative | NA           | PASS       | /        |
| 156 | Silvery metal                 | BL   | BL | BL | Negative | NA           | PASS       | /        |
| 157 | Silvery metal                 | BL   | BL | BL | Negative | NA           | PASS       | /        |
| 158 | Black plastic                 | BL   | BL | BL | BL       | N.D.         | PASS       | /        |
| 159 | Silvery metal                 | BL   | BL | BL | BL       | NA           | PASS       | /        |
| 160 | Dark grey solid               | BL   | BL | BL | BL       | BL           | PASS       | /        |
| 161 | Light blue metal              | BL   | BL | BL | BL       | NA           | PASS       | /        |
| 162 | White plastic                 | BL   | BL | BL | BL       | BL           | PASS       | /        |
| 163 | White plastic                 | BL   | BL | BL | BL       | BL           | PASS       | /        |
| 164 | White semitransparent plastic | BL   | BL | BL | BL       | N.D.         | PASS       | /        |
| 165 | Silvery/golden metal          | BL   | BL | BL | BL       | NA           | PASS       | /        |
| 166 | Green PCB with white printing | BL   | BL | BL | BL       | N.D.         | PASS       | /        |
| 167 | Orange plastic                | BL   | BL | BL | BL       | BL           | PASS       | /        |
| 168 | Green plastic                 | BL   | BL | BL | BL       | BL           | PASS       | /        |
| 169 | Grey plastic                  | BL   | BL | BL | BL       | BL           | PASS       | /        |



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| No. | Specimen Description                       | Test Results (mg/kg) <sup>(1) (2)</sup> |    |    |         |              | Conclusion | Comments |
|-----|--|---|----|----|---------|--------------|------------|----------|
|     |  | Pb                                      | Cd | Hg | Cr (VI) | PBBs & PBDEs |            |          |
| 170 | White plastic                              | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 171 | Light blue plastic                         | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 172 | Blue plastic                               | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 173 | Purple plastic                             | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 174 | Black plastic with white printing          | BL                                      | BL | BL | BL      | N.D.         | PASS       | /        |
| 175 | Black plastic                              | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 176 | Silvery metal                              | BL                                      | BL | BL | BL      | NA           | PASS       | /        |
| 177 | Grey plastic with dark pink printing       | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 178 | Transparent adhesive plastic               | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 179 | White adhesive plastic with black printing | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 180 | Silvery metal                              | BL                                      | BL | BL | BL      | NA           | PASS       | /        |
| 181 | Silvery metal                              | BL                                      | BL | BL | BL      | NA           | PASS       | /        |
| 182 | Black plastic                              | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 183 | Black capacitance                          | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 184 | Dark copper metal                          | BL                                      | BL | BL | BL      | NA           | PASS       | /        |
| 185 | Blue solid                                 | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 186 | Black plastic                              | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 187 | Yellow plastic                             | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 188 | Silvery metal                              | BL                                      | BL | BL | BL      | NA           | PASS       | /        |



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| No. | Specimen Description                   | Test Results (mg/kg) <sup>(1) (2)</sup> |    |    |         |              | Conclusion | Comments |
|-----|--|---|----|----|---------|--------------|------------|----------|
|     |  | Pb                                      | Cd | Hg | Cr (VI) | PBBs & PBDEs |            |          |
| 189 | Green ceramic with multicolor printing | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 190 | Black plastic with white printing      | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 191 | Silvery metal                          | BL                                      | BL | BL | BL      | NA           | PASS       | /        |
| 192 | White ceramic with black printing      | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 193 | Bronze metal                           | BL                                      | BL | BL | BL      | NA           | PASS       | /        |
| 194 | Dark grey plastic                      | BL                                      | BL | BL | BL      | N.D.         | PASS       | /        |
| 195 | Black plastic with orange printing     | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 196 | Dark taupe plastic                     | BL                                      | BL | BL | BL      | BL           | PASS       | /        |
| 197 | Grey capacitance                       | BL                                      | BL | BL | BL      | N.D.         | PASS       | /        |
| 198 | Green PCB with white printing          | BL                                      | BL | BL | BL      | N.D.         | PASS       | /        |



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**Remark:**

(1) ① The test results shown as “BL” are obtained by EDXRF for primary screening (for Cr (VI), the EDXRF screening result is expressed as Cr, and for PBBs and PBDEs, the EDXRF screening results are expressed as Br), and the test results shown as exact data are obtained by further wet chemical testing by ICP-OES (for Cd, Pb, Hg), UV-VIS (for Cr (VI)) and GC-MS (for PBBs and PBDEs).

② The EDXRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

Unit: mg/kg

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

③ OL = Over Limit, BL = Below Limit, X = Inconclusive, NA = Not Applicable.

**Units and limits:**

| Restricted Substances | Pb    | Cd    | Hg    | Cr (VI) | PBBs  | PBDEs |
|-----------------------|-------|-------|-------|---------|-------|-------|
| Unit                  | mg/kg | mg/kg | mg/kg | mg/kg   | mg/kg | mg/kg |
| Limit                 | 1000  | 100   | 1000  | 1000    | 1000  | 1000  |

(2) ① mg/kg = ppm = 0.0001%, N.D. = Not Detected (Less than RL).

② Unit and RL (Reporting limit) in wet chemical test.

| Restricted Substances | Pb    | Cd    | Hg    | Cr (VI) | PBBs(single) | PBDEs(single) |
|-----------------------|-------|-------|-------|---------|--------------|---------------|
| Unit                  | mg/kg | mg/kg | mg/kg | mg/kg   | mg/kg        | mg/kg         |
| RL                    | 2     | 2     | 2     | 2       | 5            | 5             |

③ According to IEC 62321-7-1:2015, result on Cr (VI) for metal sample is shown as Positive/Negative.

Negative = Absence of Cr (VI) coating, Positive = Presence of Cr (VI) coating.

Storage condition and production date of the tested sample are unavailable and thus results of Cr (VI) represent status of the sample at the time of testing.

(3) # = Per applicant's declaration, according to exemption list clause 6(c) Copper alloy containing up to 4% lead by weight, the tested material was exempted.



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## 2 Phthalates (DBP, BBP, DEHP, DIBP) content

Test Method: IEC 62321-8:2017, analyzed by Gas Chromatography-Mass Spectrometry (GC-MS).

| Substances    | DBP                  | BBP     | DEHP     | DIBP    | Conclusion |
|---------------|----------------------|---------|----------|---------|------------|
| CAS No.       | 84-74-2              | 85-68-7 | 117-81-7 | 84-69-5 |            |
| Limit (mg/kg) | 1000                 | 1000    | 1000     | 1000    |            |
| RL (mg/kg)    | 30                   | 30      | 30       | 30      |            |
| No.           | Test Results (mg/kg) |         |          |         |            |
| 5+7+11        | N.D.                 | N.D.    | N.D.     | N.D.    | PASS       |
| 13+15+20      | N.D.                 | N.D.    | N.D.     | N.D.    | PASS       |
| 21+33+34      | N.D.                 | N.D.    | N.D.     | N.D.    | PASS       |
| 35+39+40      | N.D.                 | N.D.    | N.D.     | N.D.    | PASS       |
| 25+50+52      | N.D.                 | N.D.    | N.D.     | N.D.    | PASS       |
| 61+66+67      | N.D.                 | N.D.    | N.D.     | N.D.    | PASS       |
| 46+47+48      | N.D.                 | N.D.    | N.D.     | N.D.    | PASS       |
| 51+60+70      | N.D.                 | N.D.    | N.D.     | N.D.    | PASS       |
| 71+74+76      | N.D.                 | N.D.    | N.D.     | N.D.    | PASS       |
| 86+90+92      | N.D.                 | N.D.    | N.D.     | N.D.    | PASS       |
| 82+88+95      | N.D.                 | N.D.    | N.D.     | N.D.    | PASS       |
| 102+103+105   | N.D.                 | N.D.    | N.D.     | N.D.    | PASS       |
| 97+99+101     | N.D.                 | N.D.    | N.D.     | N.D.    | PASS       |
| 104+109+115   | N.D.                 | N.D.    | N.D.     | N.D.    | PASS       |
| 106+110       | N.D.                 | N.D.    | N.D.     | N.D.    | PASS       |
| 117+124       | N.D.                 | N.D.    | N.D.     | N.D.    | PASS       |
| 120+121+123   | N.D.                 | N.D.    | N.D.     | N.D.    | PASS       |
| 125+126+128   | N.D.                 | N.D.    | N.D.     | N.D.    | PASS       |
| 129+130+132   | N.D.                 | N.D.    | N.D.     | N.D.    | PASS       |
| 133+134+135   | N.D.                 | N.D.    | N.D.     | N.D.    | PASS       |
| 136+137+138   | N.D.                 | N.D.    | N.D.     | N.D.    | PASS       |
| 140+142+146   | N.D.                 | N.D.    | N.D.     | N.D.    | PASS       |
| 143           | N.D.                 | N.D.    | N.D.     | N.D.    | PASS       |

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| Substances    | DBP                  | BBP     | DEHP     | DIBP    | Conclusion |
|---------------|----------------------|---------|----------|---------|------------|
| CAS No.       | 84-74-2              | 85-68-7 | 117-81-7 | 84-69-5 |            |
| Limit (mg/kg) | 1000                 | 1000    | 1000     | 1000    |            |
| RL (mg/kg)    | 30                   | 30      | 30       | 30      |            |
| No.           | Test Results (mg/kg) |         |          |         |            |
| 147+148+150   | N.D.                 | N.D.    | N.D.     | N.D.    | PASS       |
| 154+158+162   | N.D.                 | N.D.    | N.D.     | N.D.    | PASS       |
| 163+164+167   | N.D.                 | N.D.    | N.D.     | N.D.    | PASS       |
| 168+169+170   | N.D.                 | N.D.    | N.D.     | N.D.    | PASS       |
| 166+183       | N.D.                 | N.D.    | N.D.     | N.D.    | PASS       |
| 197+198       | N.D.                 | N.D.    | N.D.     | N.D.    | PASS       |
| 171+172+173   | N.D.                 | N.D.    | N.D.     | N.D.    | PASS       |
| 174+175+177   | N.D.                 | N.D.    | N.D.     | N.D.    | PASS       |
| 178+179+182   | N.D.                 | N.D.    | N.D.     | N.D.    | PASS       |
| 186+187+190   | N.D.                 | N.D.    | N.D.     | N.D.    | PASS       |
| 194+195+196   | N.D.                 | N.D.    | N.D.     | N.D.    | PASS       |

**Remark:**

1. mg/kg = milligram per kilogram (ppm).
2. RL = Reporting Limit.
3. N.D. = Not Detected (Less than RL).



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## Sample Photos



## Tested Parts Photos





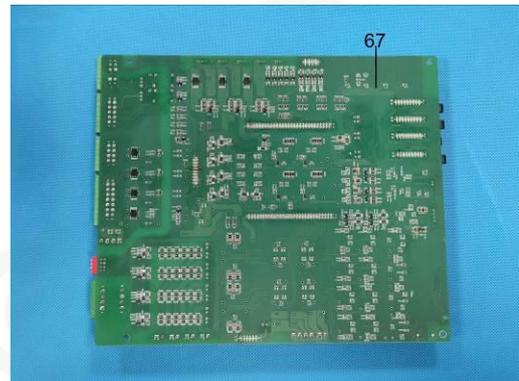
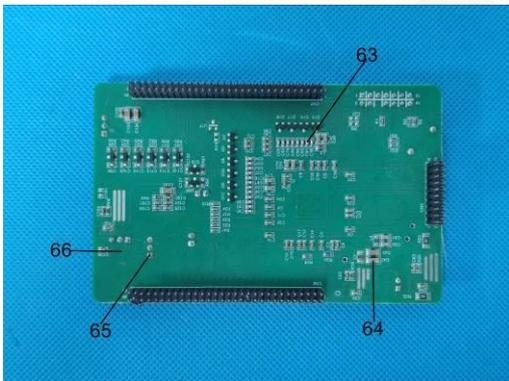
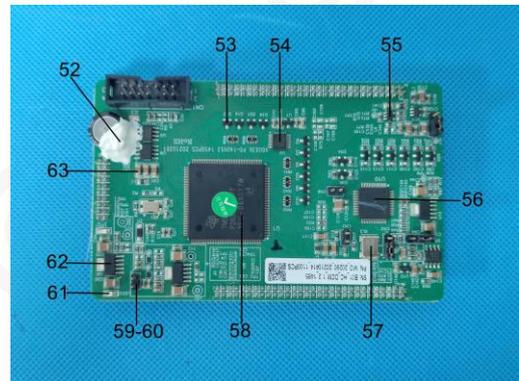
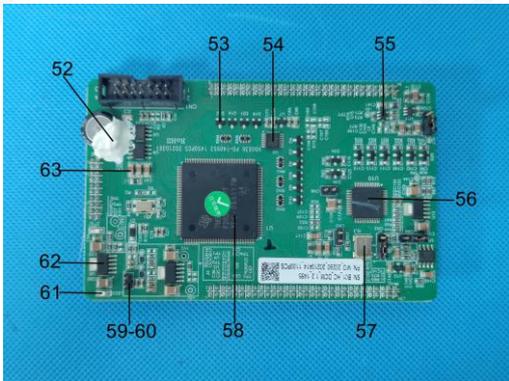
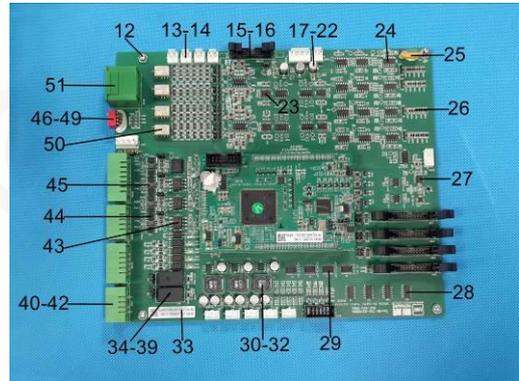
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## Tested Parts Photos





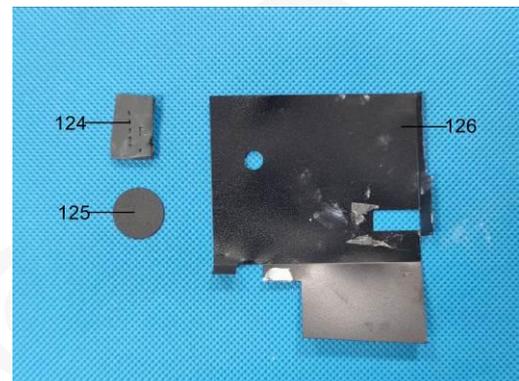
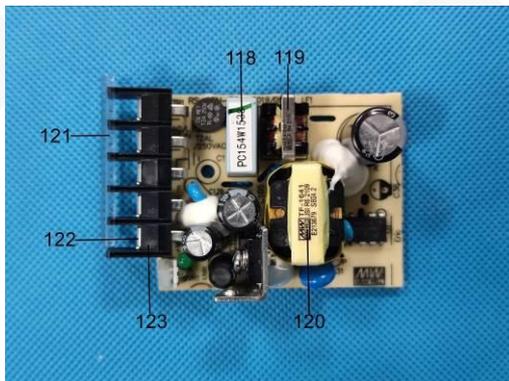
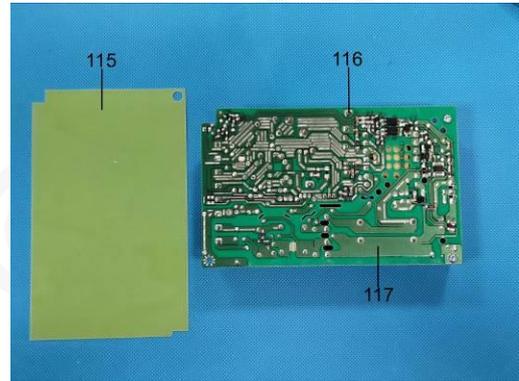
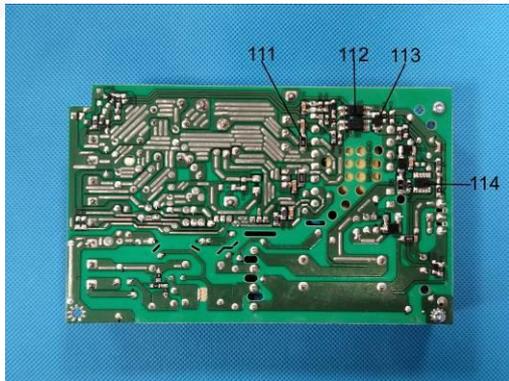
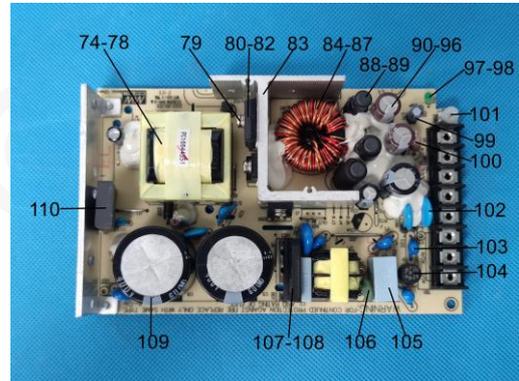
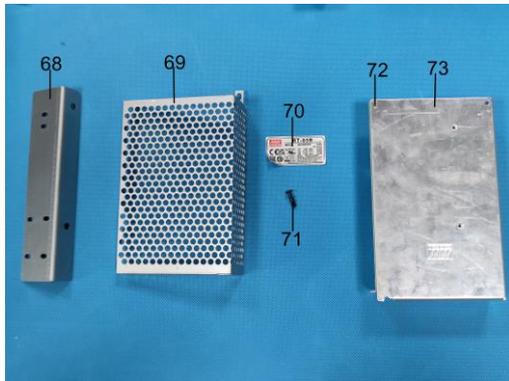
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## Tested Parts Photos





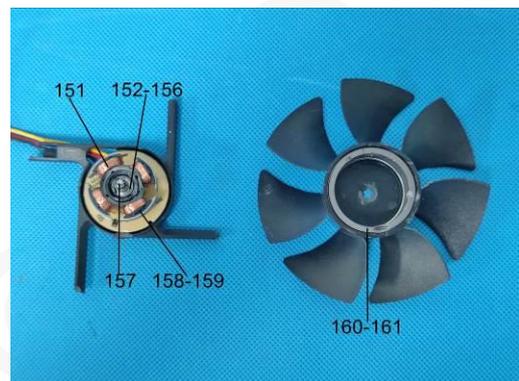
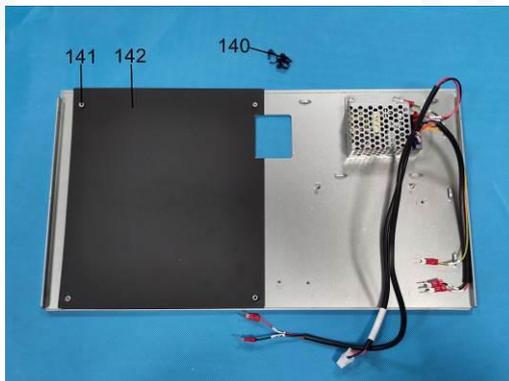
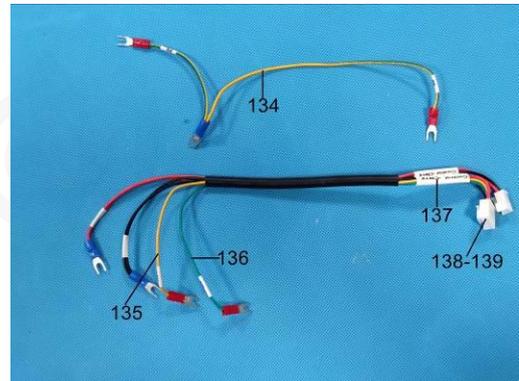
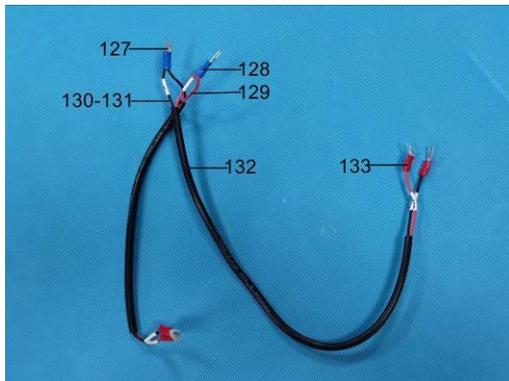
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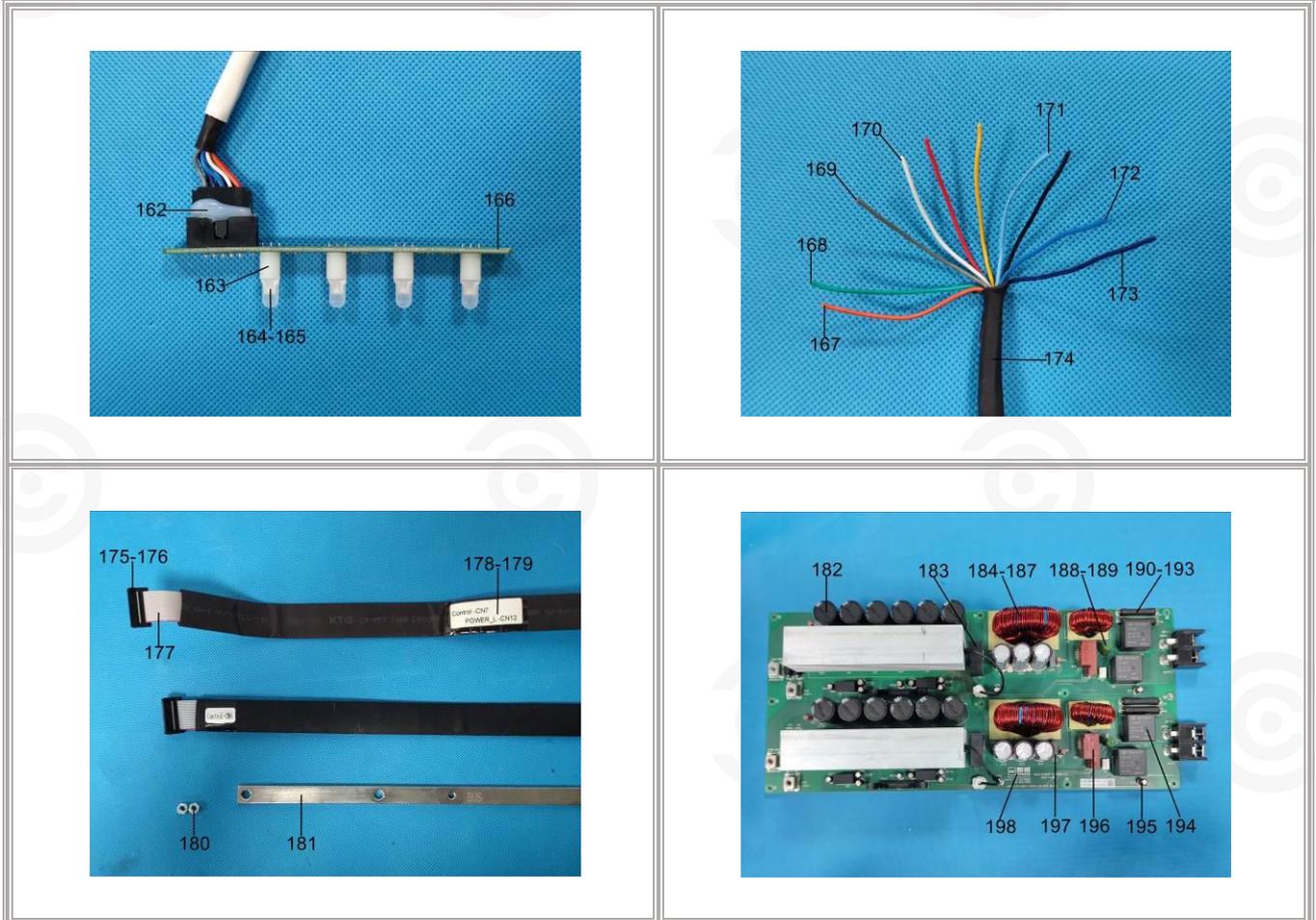
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## Tested Parts Photos



Remark: This report replaces CCI220400240EN, which will be automatically nullified on the date of issuance of this report.



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## Appendix

### EXEMPTION LIST (ANNEX III TO RoHS DIRECTIVE)

- 1 Mercury in single capped (compact) fluorescent lamps not exceeding (per burner):
  - 1(a) For general lighting purposes < 30W: 2.5mg
  - 1(b) For general lighting purposes ≥ 30W and <50W: 3.5mg
  - 1(c) For general lighting purposes ≥ 50W and <150W: 5mg
  - 1(d) For general lighting purposes ≥ 150W: 15mg
  - 1(e) For general lighting purposes with circular or square structural shape and tube diameter ≤17mm: 7mg
  - 1(f) For special purposes: 5mg
  - 1(g) For general lighting purposes < 30 W with a lifetime equal or above 20000 h: 3,5 mg (Expires on 31 December 2017)
- 2(a) Mercury in double-capped linear fluorescent lamps for general lighting purposes not exceeding (per lamp):
  - 2(a)(1) Tri-band phosphor with normal lifetime and a tube diameter < 9mm (e.g. T2): 4mg
  - 2(a)(2) Tri-band phosphor with normal lifetime and a tube diameter ≥ 9mm and ≤ 17mm (e.g. T5): 3mg
  - 2(a)(3) Tri-band phosphor with normal lifetime and a tube diameter > 17mm and ≤ 28mm (e.g. T8): 3.5mg
  - 2(a)(4) Tri-band phosphor with normal lifetime and a tube diameter > 28mm (e.g. T12): 3.5mg
  - 2(a)(5) Tri-band phosphor with long lifetime (≥ 25000h): 5mg
- 2(b) Mercury in other fluorescent lamps not exceeding (per lamp):
  - 2(b)(3) Non-linear tri-band phosphor lamps with tube diameter > 17mm (e.g. T9): 15mg
  - 2(b)(4) Lamps for other general lighting and special purposes (e.g. induction lamps): 15mg
- 3 Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp):
  - 3(a) Short length (≤ 500mm): 3.5mg
  - 3(b) Medium length (> 500mm and ≤ 1500mm): 5mg
  - 3(c) Long length (> 1500mm): 13mg
- 4(a) Mercury in other low pressure discharge lamps (per lamp): 15mg
- 4(b) Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index Ra > 60:
  - 4(b)-I P ≤ 155W: 40mg
  - 4(b)-II 155W < P ≤ 405W: 40mg
  - 4(b)-III P > 405W: 40mg
- 4(c) Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner):
  - 4(c)-I P ≤ 155W: 25mg
  - 4(c)-II 155W < P ≤ 405W: 30mg
  - 4(c)-III P > 405W: 40mg
- 4(e) Mercury in metal halide lamps (MH)
- 4(f) Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex
- 5(b) Lead in glass of fluorescent tubes not exceeding 0.2% by weight
- 6(a)-I Lead as an alloying element in steel for machining purposes containing up to 0,35 % lead by weight and in batch hot dip galvanised steel components containing up to 0,2 % lead by weight (Expires on 21 July 2021 for categories 1-7 and 10)
- 6(b)-I Lead as an alloying element in aluminium containing up to 0,4 % lead by weight, provided it stems from lead-bearing aluminium scrap recycling (Expires on 21 July 2021 for categories 1-7 and 10.)
- 6(b)-II Lead as an alloying element in aluminium for machining purposes with a lead content up to 0,4 % by weight (Expires on 18 May 2021 for categories 1-7 and 10.)
- 6(c) Copper alloy containing up to 4% lead by weight. (Expires on: 21 July 2021 for categories 1-7 and 10; 21 July 2021 for categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 *in vitro* diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 7(a) Lead in high melting temperature type solders (i.e. lead based alloys containing 85% by weight or more lead) (Applies to categories 1-7 and 10 (except applications covered under point 24) and expires on 21 July 2021. For categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments expires on 21 July 2021. For category 8 *in vitro* diagnostic medical devices expires on 21 July 2023. For category 9 industrial monitoring and control instruments, and for category 11 expires on 21 July 2024.)
- 7(c)-I Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectric devices, or in a glass or ceramic matrix compound (Applies to categories 1-7 and 10 (except applications covered under point 34) and expires on 21 July 2021. For categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments expires on 21 July 2021. For category 8 *in vitro* diagnostic medical devices expires on 21 July 2023. For category 9 industrial monitoring and control instruments, and for category 11 expires on 21 July 2024.)
- 7(c)-II Lead in dielectric ceramic in capacitors for a rated voltage of 125V AC or 250V DC or higher (Does not apply to applications covered by point 7(c)-I and 7(c)-IV of this Annex. Expires on: 21 July 2021 for categories 1-7 and 10; 21 July 2021 for categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 *in vitro* diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 7(c)-IV Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors (Expires on: 21 July 2021 for categories 1-7 and 10; 21 July 2021 for categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 *in vitro* diagnostic medical devices; 21 July 2024 for category 9 industrial

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- monitoring and control instruments, and for category 11.)
- 8(b) Cadmium and its compounds in electrical contacts (Applies to categories 8, 9 and 11 and expires on: 21 July 2021 for categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 *in vitro* diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 8(b)-I Cadmium and its compounds in electrical contacts used in:
- circuit breakers,
  - thermal sensing controls,
  - thermal motor protectors (excluding hermetic thermal motor protectors),
  - AC switches rated at:
    - 6 A and more at 250 V AC and more, or
    - 12 A and more at 125 V AC and more,
  - DC switches rated at 20 A and more at 18 V DC and more, and
  - switches for use at voltage supply frequency  $\geq 200$  Hz
- (Applies to categories 1 to 7 and 10 and expires on 21 July 2021)
- 9 Hexavalent chromium as an anti-corrosion agent of the carbon steel cooling system in absorption refrigerators up to 0.75% by weight in the cooling solution (Applies to categories 8, 9 and 11 and expires on: 21 July 2021 for categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 *in vitro* diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 9(a)-II Up to 0,75 % hexavalent chromium by weight, used as an anticorrosion agent in the cooling solution of carbon steel cooling systems of absorption refrigerators:
- designed to operate fully or partly with electrical heater, having an average utilised power input  $\geq 75$  W at constant running conditions,
  - designed to fully operate with non-electrical heater.
- (Applies to categories 1-7 and 10 and expires on 21 July 2021.)
- 9(b) Lead in bearing shells and bushes for refrigerant-containing compressors for heating, ventilation, air conditioning and refrigeration (HVACR) applications (Applies to categories 8, 9 and 11 and expires on: 21 July 2021 for categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 *in vitro* diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 13(a) Lead in white glasses used for optical applications (Applies to all categories; expires on: 21 July 2023 for category 8 *in vitro* diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments and for category 11; 21 July 2021 for all other categories and subcategories)
- 13(b) Cadmium and lead in filter glasses and glasses used for reflectance standards (Applies to categories 8, 9 and 11 and expires on: 21 July 2021 for categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 *in vitro* diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 13(b)-(I) Lead in ion coloured optical filter glass types (Applies to categories 1 to 7 and 10; expires on 21 July 2021 for categories 1 to 7 and 10)
- 13(b)-(II) Cadmium in striking optical filter glass types; excluding applications falling under point 39 of this Annex (Applies to categories 1 to 7 and 10; expires on 21 July 2021 for categories 1 to 7 and 10)
- 13(b)-(III) Cadmium and lead in glazes used for reflectance standards (Applies to categories 1 to 7 and 10; expires on 21 July 2021 for categories 1 to 7 and 10)
- 15 Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit Flip Chip packages (Applies to categories 8, 9 and 11 and expires on: 21 July 2021 for categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 *in vitro* diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 15(a) Lead in solders to complete a viable electrical connection between the semiconductor die and carrier within integrated circuit flip chip packages where at least one of the following criteria applies:
- a semiconductor technology node of 90 nm or larger;
  - a single die of 300 mm<sup>2</sup> or larger in any semiconductor technology node;
  - stacked die packages with die of 300 mm<sup>2</sup> or larger, or silicon interposers of 300 mm<sup>2</sup> or larger.
- (Applies to categories 1 to 7 and 10 and expires on 21 July 2021.)
- 18(b) Lead as activator in the fluorescent powder (1% lead by weight or less) of discharge lamps when used as sun tanning lamps containing phosphors such as BSP (BaSi<sub>2</sub>O<sub>5</sub>:Pb) (Expires on: 21 July 2021 for categories 1-7 and 10; 21 July 2021 for categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 *in vitro* diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 18(b)-I Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps containing phosphors such as BSP (BaSi<sub>2</sub>O<sub>5</sub>:Pb) when used in medical phototherapy equipment (Applies to categories 5 and 8, excluding applications covered by entry 34 of Annex IV, and expires on 21 July 2021)
- 21 Lead and cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glass (Applies to categories 8, 9 and 11 and expires on: 21 July 2021 for categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 *in vitro* diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 24 Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors (Expires on: 21 July 2021 for categories 1-7 and 10; 21 July 2021 for categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 *in vitro* diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)

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- 29 Lead bound in crystal glass as defined in Annex 1 (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC (Expires on: 21 July 2021 for categories 1-7 and 10; 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 in vitro diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 32 Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes (Expires on: 21 July 2021 for categories 1-7 and 10; 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 in vitro diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 34 Lead in cermet-based trimmer potentiometer elements (Applies to all categories; expires on: 21 July 2021 for categories 1-7 and 10; 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 in vitro diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 37 Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body (Expires on: 21 July 2021 for categories 1-7 and 10; 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 in vitro diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 39(a) Cadmium selenide in downshifting cadmium-based semiconductor nanocrystal quantum dots for use in display lighting applications (< 0,2 µg Cd per mm<sup>2</sup> of display screen area) (Expires for all categories on [two years after the publication of the Delegated Directive in the Official Journal])
- 41 Lead in solders and termination finishes of electrical and electronic components and finishes of printed circuit boards used in ignition modules and other electrical and electronic engine control systems, which for technical reasons must be mounted directly on or in the crankcase or cylinder of hand-held combustion engines (classes SH:1, SH:2, SH:3 of Directive 97/68/EC of the European Parliament and of the Council) (Applies to all categories and expires on: 31 March 2022 for categories 1 to 7, 10 and 11; 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 in vitro diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments.)
- 42 Lead in bearings and bushes of diesel or gaseous fuel powered internal combustion engines applied in non-road professional use equipment:  
- with engine total displacement ≥ 15 litres; or  
- with engine total displacement < 15 litres and the engine is designed to operate in applications where the time between signal to start and full load is required to be less than 10 seconds; or regular maintenance is typically performed in a harsh and dirty outdoor environment, such as mining, construction, and agriculture applications.
- 43 Bis(2-ethylhexyl) phthalate in rubber components in engine systems, designed for use in equipment that is not intended solely for consumer use and provided that no plasticised material comes into contact with human mucous membranes or into prolonged contact with human skin and the concentration value of bis(2-ethylhexyl) phthalate does not exceed:  
(a) 30 % by weight of the rubber for  
(i) gasket coatings;  
(ii) solid-rubber gaskets; or  
(iii) rubber components included in assemblies of at least three components using electrical, mechanical or hydraulic energy to do work, and attached to the engine.  
(b) 10 % by weight of the rubber for rubber-containing components not referred to in point (a).  
For the purposes of this entry, "prolonged contact with human skin" means continuous contact of more than 10 minutes duration or intermittent contact over a period of 30 minutes, per day.  
(Applies to category 11 and expires on 21 July 2024.)
- 44 Lead in solder of sensors, actuators, and engine control units of combustion engines within the scope of Regulation (EU) 2016/1628 of the European Parliament and of the Council (1), installed in equipment used at fixed positions while in operation which is designed for professionals, but also used by non-professional users (Applies to category 11 and expires on 21 July 2024)
- 45 Lead diazide, lead styphnate, lead dipicramate, orange lead (lead tetroxide), lead dioxide in electric and electronic initiators of explosives for civil (professional) use and barium chromate in long time pyrotechnic delay charges of electric initiators of explosives for civil (professional) use (Effective from 1 November 2021. Applies to category 11 and expires on 20 April 2026)

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