



# TEST REPORT

Report No.: GST200600074EN

Report Date: Jun. 17, 2020

Page 1 of 35

**Applicant** : Purism, SPC

**Address** : One Market Street, 36th Floor, San Francisco, CA 94105, USA

(The Submitted Sample Said To Be)

**Sample Name** : Librem Mini

**Model/Style No.** : LMv1-01

**Test Period** : From Jun. 09. 2020 to Jun. 17, 2020

**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, CrVI, 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 - Commission Delegated Directive (EU) 2015/863 of 31 March 2015                                                                         | PASS       |

Signed for and on behalf of  
GuangzhouGuanding Standard Testing TechnologyCo., Ltd.

Approved by: \_\_\_\_\_

*fans*

Shuo Fang/Technical Director

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# TEST REPORT

Report No.: GST200600074EN

Report Date: Jun. 17, 2020

Page 2 of 35

## 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.

| Part No. | Part Description                  | Characteristic Elements | Results of EDXRF <sup>(1)</sup> | Results of Wet Chemical Testing (mg/kg) <sup>(2)</sup> | Conclusion | Comments           |
|----------|-----------------------------------|-------------------------|---------------------------------|--------------------------------------------------------|------------|--------------------|
| 1        | Silvery metal                     | Pb                      | BL                              | /                                                      | Pass       | /                  |
|          |                                   | Cd                      | BL                              | /                                                      |            | /                  |
|          |                                   | Hg                      | BL                              | /                                                      |            | /                  |
|          |                                   | Cr                      | BL                              | /                                                      |            | /                  |
|          |                                   | Br                      | NA                              | /                                                      |            | /                  |
| 2        | Silvery metal                     | Pb                      | BL                              | /                                                      | Pass       | /                  |
|          |                                   | Cd                      | BL                              | /                                                      |            | /                  |
|          |                                   | Hg                      | BL                              | /                                                      |            | /                  |
|          |                                   | Cr                      | X                               | Cr <sup>6+</sup> :Negative                             |            | /                  |
|          |                                   | Br                      | NA                              | /                                                      |            | /                  |
| 3        | Black hard plastic                | Pb                      | BL                              | /                                                      | Pass       | /                  |
|          |                                   | Cd                      | BL                              | /                                                      |            | /                  |
|          |                                   | Hg                      | BL                              | /                                                      |            | /                  |
|          |                                   | Cr                      | BL                              | /                                                      |            | /                  |
|          |                                   | Br                      | X                               | PBBs&PBDEs:N.D.                                        |            | /                  |
| 4        | Black plastic                     | Pb                      | BL                              | /                                                      | Pass       | /                  |
|          |                                   | Cd                      | BL                              | /                                                      |            | /                  |
|          |                                   | Hg                      | BL                              | /                                                      |            | /                  |
|          |                                   | Cr                      | BL                              | /                                                      |            | /                  |
|          |                                   | Br                      | BL                              | /                                                      |            | /                  |
| 5        | Black plastic with white printing | Pb                      | BL                              | /                                                      | Pass       | Resubmitted sample |
|          |                                   | Cd                      | BL                              | /                                                      |            |                    |
|          |                                   | Hg                      | BL                              | /                                                      |            |                    |
|          |                                   | Cr                      | BL                              | /                                                      |            |                    |
|          |                                   | Br                      | BL                              | /                                                      |            |                    |
| 6        | Yellow plastic                    | Pb                      | BL                              | /                                                      | Pass       | Resubmitted sample |
|          |                                   | Cd                      | BL                              | /                                                      |            |                    |
|          |                                   | Hg                      | BL                              | /                                                      |            |                    |
|          |                                   | Cr                      | BL                              | /                                                      |            |                    |
|          |                                   | Br                      | BL                              | /                                                      |            |                    |
| 7        | Blue plastic                      | Pb                      | BL                              | /                                                      | Pass       | Resubmitted sample |
|          |                                   | Cd                      | BL                              | /                                                      |            |                    |
|          |                                   | Hg                      | BL                              | /                                                      |            |                    |
|          |                                   | Cr                      | BL                              | /                                                      |            |                    |
|          |                                   | Br                      | BL                              | /                                                      |            |                    |
| 8        | Brown plastic                     | Pb                      | BL                              | /                                                      | Pass       | Resubmitted sample |
|          |                                   | Cd                      | BL                              | /                                                      |            |                    |
|          |                                   | Hg                      | BL                              | /                                                      |            |                    |
|          |                                   | Cr                      | BL                              | /                                                      |            |                    |
|          |                                   | Br                      | BL                              | /                                                      |            |                    |

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Report No.: GST200600074EN

Report Date: Jun. 17, 2020

Page 3 of 35

| Part No. | Part Description                  | Characteristic Elements | Results of EDXRF <sup>(1)</sup> | Results of Wet Chemical Testing (mg/kg) <sup>(2)</sup> | Conclusion | Comments |
|----------|-----------------------------------|-------------------------|---------------------------------|--------------------------------------------------------|------------|----------|
| 9        | Bronze metal                      | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                                   | Br                      | NA                              | /                                                      |            | /        |
| 10       | Golden metal                      | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                                   | Br                      | NA                              | /                                                      |            | /        |
| 11       | Silvery metal                     | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                                   | Br                      | NA                              | /                                                      |            | /        |
| 12       | Silvery metal                     | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                                   | Br                      | NA                              | /                                                      |            | /        |
| 13       | Silvery metal                     | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                                   | Br                      | NA                              | /                                                      |            | /        |
| 14       | Black hard plastic                | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                                   | Br                      | X                               | PBBs&PBDEs:N.D.                                        |            | /        |
| 15       | Black plastic                     | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                                   | Br                      | BL                              | /                                                      |            | /        |
| 16       | Black plastic with white printing | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                                   | Br                      | BL                              | /                                                      |            | /        |

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# TEST REPORT

Report No.: GST200600074EN

Report Date: Jun. 17, 2020

Page 4 of 35

| Part No. | Part Description                                 | Characteristic Elements | Results of EDXRF <sup>(1)</sup> | Results of Wet Chemical Testing (mg/kg) <sup>(2)</sup> | Conclusion | Comments |
|----------|--------------------------------------------------|-------------------------|---------------------------------|--------------------------------------------------------|------------|----------|
| 17       | Bronze metal                                     | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                  | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                  | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                  | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                  | Br                      | NA                              | /                                                      |            | /        |
| 18       | Black plastic                                    | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                  | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                  | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                  | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                  | Br                      | BL                              | /                                                      |            | /        |
| 19       | Black solid                                      | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                  | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                  | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                  | Cr                      | X                               | Cr <sup>6+</sup> :Negative                             |            | /        |
|          |                                                  | Br                      | NA                              | /                                                      |            | /        |
| 20       | Black plastic                                    | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                  | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                  | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                  | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                  | Br                      | X                               | PBBs&PBDEs:N.D.                                        |            | /        |
| 21       | White adhesive plastic with black/white printing | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                  | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                  | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                  | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                  | Br                      | BL                              | /                                                      |            | /        |
| 22       | Grey glue                                        | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                  | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                  | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                  | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                  | Br                      | BL                              | /                                                      |            | /        |
| 23       | Black plastic                                    | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                  | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                  | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                  | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                  | Br                      | BL                              | /                                                      |            | /        |
| 24       | Silvery metal                                    | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                  | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                  | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                  | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                  | Br                      | NA                              | /                                                      |            | /        |

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# TEST REPORT

Report No.: GST200600074EN

Report Date: Jun. 17, 2020

Page 5 of 35

| Part No. | Part Description    | Characteristic Elements | Results of EDXRF <sup>(1)</sup> | Results of Wet Chemical Testing (mg/kg) <sup>(2)</sup> | Conclusion | Comments |
|----------|---------------------|-------------------------|---------------------------------|--------------------------------------------------------|------------|----------|
| 25       | Silvery metal       | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                     | Cd                      | BL                              | /                                                      |            | /        |
|          |                     | Hg                      | BL                              | /                                                      |            | /        |
|          |                     | Cr                      | BL                              | /                                                      |            | /        |
|          |                     | Br                      | NA                              | /                                                      |            | /        |
| 26       | Silvery metal       | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                     | Cd                      | BL                              | /                                                      |            | /        |
|          |                     | Hg                      | BL                              | /                                                      |            | /        |
|          |                     | Cr                      | BL                              | /                                                      |            | /        |
|          |                     | Br                      | NA                              | /                                                      |            | /        |
| 27       | Silvery metal       | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                     | Cd                      | BL                              | /                                                      |            | /        |
|          |                     | Hg                      | BL                              | /                                                      |            | /        |
|          |                     | Cr                      | BL                              | /                                                      |            | /        |
|          |                     | Br                      | NA                              | /                                                      |            | /        |
| 28       | Black plastic       | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                     | Cd                      | BL                              | /                                                      |            | /        |
|          |                     | Hg                      | BL                              | /                                                      |            | /        |
|          |                     | Cr                      | BL                              | /                                                      |            | /        |
|          |                     | Br                      | BL                              | /                                                      |            | /        |
| 29       | Pink plastic        | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                     | Cd                      | BL                              | /                                                      |            | /        |
|          |                     | Hg                      | BL                              | /                                                      |            | /        |
|          |                     | Cr                      | BL                              | /                                                      |            | /        |
|          |                     | Br                      | BL                              | /                                                      |            | /        |
| 30       | Light blue plastic  | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                     | Cd                      | BL                              | /                                                      |            | /        |
|          |                     | Hg                      | BL                              | /                                                      |            | /        |
|          |                     | Cr                      | BL                              | /                                                      |            | /        |
|          |                     | Br                      | BL                              | /                                                      |            | /        |
| 31       | Black plastic       | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                     | Cd                      | BL                              | /                                                      |            | /        |
|          |                     | Hg                      | BL                              | /                                                      |            | /        |
|          |                     | Cr                      | BL                              | /                                                      |            | /        |
|          |                     | Br                      | BL                              | /                                                      |            | /        |
| 32       | Silvery white metal | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                     | Cd                      | BL                              | /                                                      |            | /        |
|          |                     | Hg                      | BL                              | /                                                      |            | /        |
|          |                     | Cr                      | BL                              | /                                                      |            | /        |
|          |                     | Br                      | NA                              | /                                                      |            | /        |

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Report No.: GST200600074EN

Report Date: Jun. 17, 2020

Page 6 of 35

| Part No. | Part Description                  | Characteristic Elements | Results of EDXRF <sup>(1)</sup> | Results of Wet Chemical Testing (mg/kg) <sup>(2)</sup> | Conclusion | Comments |
|----------|-----------------------------------|-------------------------|---------------------------------|--------------------------------------------------------|------------|----------|
| 33       | Silvery metal                     | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                                   | Br                      | NA                              | /                                                      |            | /        |
| 34       | Silvery metal                     | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                                   | Br                      | NA                              | /                                                      |            | /        |
| 35       | Silvery/copper metal              | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                                   | Br                      | NA                              | /                                                      |            | /        |
| 36       | Black plastic                     | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                                   | Br                      | BL                              | /                                                      |            | /        |
| 37       | White glue                        | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                                   | Br                      | BL                              | /                                                      |            | /        |
| 38       | Black plastic with white printing | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                                   | Br                      | BL                              | /                                                      |            | /        |
| 39       | Silvery white metal               | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                                   | Br                      | NA                              | /                                                      |            | /        |
| 40       | Black rubber                      | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                                   | Br                      | BL                              | /                                                      |            | /        |

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Report Date: Jun. 17, 2020

Page 7 of 35

| Part No. | Part Description                  | Characteristic Elements | Results of EDXRF <sup>(1)</sup> | Results of Wet Chemical Testing (mg/kg) <sup>(2)</sup> | Conclusion | Comments |
|----------|-----------------------------------|-------------------------|---------------------------------|--------------------------------------------------------|------------|----------|
| 41       | Transparent adhesive plastic      | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                                   | Br                      | BL                              | /                                                      |            | /        |
| 42       | Brown paper                       | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                                   | Br                      | BL                              | /                                                      |            | /        |
| 43       | Silvery foil                      | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                                   | Br                      | NA                              | /                                                      |            | /        |
| 44       | Silvery grey foil                 | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                                   | Br                      | NA                              | /                                                      |            | /        |
| 45       | Silvery metal                     | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                                   | Br                      | NA                              | /                                                      |            | /        |
| 46       | Brown plastic with white printing | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                                   | Br                      | BL                              | /                                                      |            | /        |
| 47       | Silvery white metal               | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                                   | Br                      | NA                              | /                                                      |            | /        |
| 48       | Black rubber                      | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                                   | Br                      | BL                              | /                                                      |            | /        |

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# TEST REPORT

Report No.: GST200600074EN

Report Date: Jun. 17, 2020

Page 8 of 35

| Part No. | Part Description  | Characteristic Elements | Results of EDXRF <sup>(1)</sup> | Results of Wet Chemical Testing (mg/kg) <sup>(2)</sup> | Conclusion | Comments |
|----------|-------------------|-------------------------|---------------------------------|--------------------------------------------------------|------------|----------|
| 49       | Light brown paper | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                   | Br                      | BL                              | /                                                      |            | /        |
| 50       | Silvery grey foil | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                   | Br                      | NA                              | /                                                      |            | /        |
| 51       | Silvery metal     | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                   | Br                      | NA                              | /                                                      |            | /        |
| 52       | Grey capacitance  | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                   | Br                      | BL                              | /                                                      |            | /        |
| 53       | Green capacitance | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                   | Br                      | BL                              | /                                                      |            | /        |
| 54       | White capacitance | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                   | Br                      | BL                              | /                                                      |            | /        |
| 55       | Blue solid        | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                   | Br                      | NA                              | /                                                      |            | /        |
| 56       | Black plastic     | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                   | Br                      | BL                              | /                                                      |            | /        |

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# TEST REPORT

Report No.: GST200600074EN

Report Date: Jun. 17, 2020

Page 9 of 35

| Part No. | Part Description    | Characteristic Elements | Results of EDXRF <sup>(1)</sup> | Results of Wet Chemical Testing (mg/kg) <sup>(2)</sup> | Conclusion | Comments |
|----------|---------------------|-------------------------|---------------------------------|--------------------------------------------------------|------------|----------|
| 57       | Black plastic       | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                     | Cd                      | BL                              | /                                                      |            | /        |
|          |                     | Hg                      | BL                              | /                                                      |            | /        |
|          |                     | Cr                      | BL                              | /                                                      |            | /        |
|          |                     | Br                      | BL                              | /                                                      |            | /        |
| 58       | Silvery metal       | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                     | Cd                      | BL                              | /                                                      |            | /        |
|          |                     | Hg                      | BL                              | /                                                      |            | /        |
|          |                     | Cr                      | BL                              | /                                                      |            | /        |
|          |                     | Br                      | NA                              | /                                                      |            | /        |
| 59       | Silvery metal       | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                     | Cd                      | BL                              | /                                                      |            | /        |
|          |                     | Hg                      | BL                              | /                                                      |            | /        |
|          |                     | Cr                      | BL                              | /                                                      |            | /        |
|          |                     | Br                      | NA                              | /                                                      |            | /        |
| 60       | Multi-color ceramic | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                     | Cd                      | BL                              | /                                                      |            | /        |
|          |                     | Hg                      | BL                              | /                                                      |            | /        |
|          |                     | Cr                      | X                               | Cr <sup>6+</sup> :Negative                             |            | /        |
|          |                     | Br                      | NA                              | /                                                      |            | /        |
| 61       | Silvery metal       | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                     | Cd                      | BL                              | /                                                      |            | /        |
|          |                     | Hg                      | BL                              | /                                                      |            | /        |
|          |                     | Cr                      | BL                              | /                                                      |            | /        |
|          |                     | Br                      | NA                              | /                                                      |            | /        |
| 62       | Red metal           | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                     | Cd                      | BL                              | /                                                      |            | /        |
|          |                     | Hg                      | BL                              | /                                                      |            | /        |
|          |                     | Cr                      | BL                              | /                                                      |            | /        |
|          |                     | Br                      | NA                              | /                                                      |            | /        |
| 63       | Bronze metal        | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                     | Cd                      | BL                              | /                                                      |            | /        |
|          |                     | Hg                      | BL                              | /                                                      |            | /        |
|          |                     | Cr                      | BL                              | /                                                      |            | /        |
|          |                     | Br                      | NA                              | /                                                      |            | /        |
| 64       | Light green solid   | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                     | Cd                      | BL                              | /                                                      |            | /        |
|          |                     | Hg                      | BL                              | /                                                      |            | /        |
|          |                     | Cr                      | BL                              | /                                                      |            | /        |
|          |                     | Br                      | NA                              | /                                                      |            | /        |

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# TEST REPORT

Report No.: GST200600074EN

Report Date: Jun. 17, 2020

Page 10 of 35

| Part No. | Part Description        | Characteristic Elements | Results of EDXRF <sup>(1)</sup> | Results of Wet Chemical Testing (mg/kg) <sup>(2)</sup> | Conclusion | Comments |
|----------|-------------------------|-------------------------|---------------------------------|--------------------------------------------------------|------------|----------|
| 65       | Black plastic           | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                         | Cd                      | BL                              | /                                                      |            | /        |
|          |                         | Hg                      | BL                              | /                                                      |            | /        |
|          |                         | Cr                      | BL                              | /                                                      |            | /        |
|          |                         | Br                      | BL                              | /                                                      |            | /        |
| 66       | Bronze metal            | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                         | Cd                      | BL                              | /                                                      |            | /        |
|          |                         | Hg                      | BL                              | /                                                      |            | /        |
|          |                         | Cr                      | BL                              | /                                                      |            | /        |
|          |                         | Br                      | NA                              | /                                                      |            | /        |
| 67       | Dark green solid        | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                         | Cd                      | BL                              | /                                                      |            | /        |
|          |                         | Hg                      | BL                              | /                                                      |            | /        |
|          |                         | Cr                      | BL                              | /                                                      |            | /        |
|          |                         | Br                      | NA                              | /                                                      |            | /        |
| 68       | Light brown plastic     | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                         | Cd                      | BL                              | /                                                      |            | /        |
|          |                         | Hg                      | BL                              | /                                                      |            | /        |
|          |                         | Cr                      | BL                              | /                                                      |            | /        |
|          |                         | Br                      | BL                              | /                                                      |            | /        |
| 69       | Yellow adhesive plastic | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                         | Cd                      | BL                              | /                                                      |            | /        |
|          |                         | Hg                      | BL                              | /                                                      |            | /        |
|          |                         | Cr                      | BL                              | /                                                      |            | /        |
|          |                         | Br                      | BL                              | /                                                      |            | /        |
| 70       | Black plastic           | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                         | Cd                      | BL                              | /                                                      |            | /        |
|          |                         | Hg                      | BL                              | /                                                      |            | /        |
|          |                         | Cr                      | BL                              | /                                                      |            | /        |
|          |                         | Br                      | BL                              | /                                                      |            | /        |
| 71       | Black solid             | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                         | Cd                      | BL                              | /                                                      |            | /        |
|          |                         | Hg                      | BL                              | /                                                      |            | /        |
|          |                         | Cr                      | BL                              | /                                                      |            | /        |
|          |                         | Br                      | NA                              | /                                                      |            | /        |
| 72       | Bronze metal            | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                         | Cd                      | BL                              | /                                                      |            | /        |
|          |                         | Hg                      | BL                              | /                                                      |            | /        |
|          |                         | Cr                      | BL                              | /                                                      |            | /        |
|          |                         | Br                      | NA                              | /                                                      |            | /        |

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# TEST REPORT

Report No.: GST200600074EN

Report Date: Jun. 17, 2020

Page 11 of 35

| Part No. | Part Description                                            | Characteristic Elements | Results of EDXRF <sup>(1)</sup> | Results of Wet Chemical Testing (mg/kg) <sup>(2)</sup> | Conclusion | Comments |
|----------|-------------------------------------------------------------|-------------------------|---------------------------------|--------------------------------------------------------|------------|----------|
| 73       | Silvery metal                                               | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                             | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                             | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                             | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                             | Br                      | NA                              | /                                                      |            | /        |
| 74       | Transparent plastic                                         | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                             | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                             | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                             | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                             | Br                      | BL                              | /                                                      |            | /        |
| 75       | Copper metal with yellow printing                           | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                             | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                             | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                             | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                             | Br                      | NA                              | /                                                      |            | /        |
| 76       | Light yellow PCB with green/white printing with copper foil | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                             | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                             | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                             | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                             | Br                      | X                               | PBBs&PBDEs:N.D.                                        |            | /        |
| 77       | Silvery metal                                               | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                             | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                             | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                             | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                             | Br                      | NA                              | /                                                      |            | /        |
| 78       | Black plastic                                               | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                             | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                             | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                             | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                             | Br                      | BL                              | /                                                      |            | /        |
| 79       | Brown ceramics                                              | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                             | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                             | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                             | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                             | Br                      | NA                              | /                                                      |            | /        |
| 80       | White ceramic with black printing                           | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                             | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                             | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                             | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                             | Br                      | NA                              | /                                                      |            | /        |

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# TEST REPORT

Report No.: GST200600074EN

Report Date: Jun. 17, 2020

Page 12 of 35

| Part No. | Part Description                               | Characteristic Elements | Results of EDXRF <sup>(1)</sup> | Results of Wet Chemical Testing (mg/kg) <sup>(2)</sup> | Conclusion | Comments           |
|----------|------------------------------------------------|-------------------------|---------------------------------|--------------------------------------------------------|------------|--------------------|
| 81       | Silvery metal                                  | Pb                      | BL                              | /                                                      | Pass       | /                  |
|          |                                                | Cd                      | BL                              | /                                                      |            | /                  |
|          |                                                | Hg                      | BL                              | /                                                      |            | /                  |
|          |                                                | Cr                      | BL                              | /                                                      |            | /                  |
|          |                                                | Br                      | NA                              | /                                                      |            | /                  |
| 82       | Silvery white metal                            | Pb                      | BL                              | /                                                      | Pass       | /                  |
|          |                                                | Cd                      | BL                              | /                                                      |            | /                  |
|          |                                                | Hg                      | BL                              | /                                                      |            | /                  |
|          |                                                | Cr                      | BL                              | /                                                      |            | /                  |
|          |                                                | Br                      | NA                              | /                                                      |            | /                  |
| 83       | Black rubber with glue                         | Pb                      | BL                              | /                                                      | Pass       | /                  |
|          |                                                | Cd                      | BL                              | /                                                      |            | /                  |
|          |                                                | Hg                      | BL                              | /                                                      |            | /                  |
|          |                                                | Cr                      | BL                              | /                                                      |            | /                  |
|          |                                                | Br                      | BL                              | /                                                      |            | /                  |
| 84       | Black metal                                    | Pb                      | BL                              | /                                                      | Pass       | /                  |
|          |                                                | Cd                      | BL                              | /                                                      |            | /                  |
|          |                                                | Hg                      | BL                              | /                                                      |            | /                  |
|          |                                                | Cr                      | BL                              | /                                                      |            | /                  |
|          |                                                | Br                      | NA                              | /                                                      |            | /                  |
| 85       | Transparent plastic with black/silver printing | Pb                      | BL                              | /                                                      | Pass       | /                  |
|          |                                                | Cd                      | BL                              | /                                                      |            | /                  |
|          |                                                | Hg                      | BL                              | /                                                      |            | /                  |
|          |                                                | Cr                      | BL                              | /                                                      |            | /                  |
|          |                                                | Br                      | NA                              | /                                                      |            | /                  |
| 86       | Silvery metal                                  | Pb                      | BL                              | /                                                      | Pass       | /                  |
|          |                                                | Cd                      | BL                              | /                                                      |            | /                  |
|          |                                                | Hg                      | BL                              | /                                                      |            | /                  |
|          |                                                | Cr                      | BL                              | /                                                      |            | /                  |
|          |                                                | Br                      | NA                              | /                                                      |            | /                  |
| 87       | Black metal                                    | Pb                      | BL                              | /                                                      | Pass       | /                  |
|          |                                                | Cd                      | BL                              | /                                                      |            | /                  |
|          |                                                | Hg                      | BL                              | /                                                      |            | /                  |
|          |                                                | Cr                      | BL                              | /                                                      |            | /                  |
|          |                                                | Br                      | NA                              | /                                                      |            | /                  |
| 88       | Black plastic with glue                        | Pb                      | BL                              | /                                                      | Pass       | Resubmitted sample |
|          |                                                | Cd                      | BL                              | /                                                      |            |                    |
|          |                                                | Hg                      | BL                              | /                                                      |            |                    |
|          |                                                | Cr                      | BL                              | /                                                      |            |                    |
|          |                                                | Br                      | BL                              | /                                                      |            |                    |

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# TEST REPORT

Report No.: GST200600074EN

Report Date: Jun. 17, 2020

Page 13 of 35

| Part No. | Part Description                         | Characteristic Elements | Results of EDXRF <sup>(1)</sup> | Results of Wet Chemical Testing (mg/kg) <sup>(2)</sup> | Conclusion | Comments           |
|----------|------------------------------------------|-------------------------|---------------------------------|--------------------------------------------------------|------------|--------------------|
| 89       | Black plastic with copper foil with glue | Pb                      | BL                              | /                                                      | Pass       | /                  |
|          |                                          | Cd                      | BL                              | /                                                      |            | /                  |
|          |                                          | Hg                      | BL                              | /                                                      |            | /                  |
|          |                                          | Cr                      | BL                              | /                                                      |            | /                  |
|          |                                          | Br                      | BL                              | /                                                      |            | /                  |
| 90       | Silvery metal                            | Pb                      | BL                              | /                                                      | Pass       | /                  |
|          |                                          | Cd                      | BL                              | /                                                      |            | /                  |
|          |                                          | Hg                      | BL                              | /                                                      |            | /                  |
|          |                                          | Cr                      | BL                              | /                                                      |            | /                  |
|          |                                          | Br                      | NA                              | /                                                      |            | /                  |
| 91       | Silvery adhesive plastic                 | Pb                      | BL                              | /                                                      | Pass       | /                  |
|          |                                          | Cd                      | BL                              | /                                                      |            | /                  |
|          |                                          | Hg                      | BL                              | /                                                      |            | /                  |
|          |                                          | Cr                      | BL                              | /                                                      |            | /                  |
|          |                                          | Br                      | BL                              | /                                                      |            | /                  |
| 92       | Golden metal                             | Pb                      | BL                              | /                                                      | Pass       | Resubmitted sample |
|          |                                          | Cd                      | BL                              | /                                                      |            |                    |
|          |                                          | Hg                      | BL                              | /                                                      |            |                    |
|          |                                          | Cr                      | BL                              | /                                                      |            |                    |
|          |                                          | Br                      | NA                              | /                                                      |            |                    |
| 93       | Black metal                              | Pb                      | BL                              | /                                                      | Pass       | /                  |
|          |                                          | Cd                      | BL                              | /                                                      |            | /                  |
|          |                                          | Hg                      | BL                              | /                                                      |            | /                  |
|          |                                          | Cr                      | BL                              | /                                                      |            | /                  |
|          |                                          | Br                      | NA                              | /                                                      |            | /                  |
| 94       | Silvery metal                            | Pb                      | BL                              | /                                                      | Pass       | /                  |
|          |                                          | Cd                      | BL                              | /                                                      |            | /                  |
|          |                                          | Hg                      | BL                              | /                                                      |            | /                  |
|          |                                          | Cr                      | X                               | Cr <sup>6+</sup> :Negative                             |            | /                  |
|          |                                          | Br                      | NA                              | /                                                      |            | /                  |
| 95       | Golden metal                             | Pb                      | BL                              | /                                                      | Pass       | Resubmitted sample |
|          |                                          | Cd                      | BL                              | /                                                      |            |                    |
|          |                                          | Hg                      | BL                              | /                                                      |            |                    |
|          |                                          | Cr                      | BL                              | /                                                      |            |                    |
|          |                                          | Br                      | NA                              | /                                                      |            |                    |
| 96       | Silvery metal                            | Pb                      | BL                              | /                                                      | Pass       | /                  |
|          |                                          | Cd                      | BL                              | /                                                      |            | /                  |
|          |                                          | Hg                      | BL                              | /                                                      |            | /                  |
|          |                                          | Cr                      | BL                              | /                                                      |            | /                  |
|          |                                          | Br                      | NA                              | /                                                      |            | /                  |

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# TEST REPORT

Report No.: GST200600074EN

Report Date: Jun. 17, 2020

Page 14 of 35

| Part No. | Part Description                               | Characteristic Elements | Results of EDXRF <sup>(1)</sup> | Results of Wet Chemical Testing (mg/kg) <sup>(2)</sup> | Conclusion | Comments |
|----------|------------------------------------------------|-------------------------|---------------------------------|--------------------------------------------------------|------------|----------|
| 97       | Grey plastic                                   | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                | Br                      | BL                              | /                                                      |            | /        |
| 98       | Black plastic                                  | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                | Br                      | BL                              | /                                                      |            | /        |
| 99       | Golden metal                                   | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                | Br                      | NA                              | /                                                      |            | /        |
| 100      | White adhesive plastic with black printing     | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                | Br                      | BL                              | /                                                      |            | /        |
| 101      | Silvery metal                                  | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                | Br                      | NA                              | /                                                      |            | /        |
| 102      | Silvery metal                                  | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                | Br                      | NA                              | /                                                      |            | /        |
| 103      | Black plastic                                  | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                | Br                      | BL                              | /                                                      |            | /        |
| 104      | Green PCB with white printing with copper foil | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                | Br                      | BL                              | /                                                      |            | /        |

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# TEST REPORT

Report No.: GST200600074EN

Report Date: Jun. 17, 2020

Page 15 of 35

| Part No. | Part Description | Characteristic Elements | Results of EDXRF <sup>(1)</sup> | Results of Wet Chemical Testing (mg/kg) <sup>(2)</sup> | Conclusion | Comments |
|----------|------------------|-------------------------|---------------------------------|--------------------------------------------------------|------------|----------|
| 105      | Silvery metal    | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                  | Cd                      | BL                              | /                                                      |            | /        |
|          |                  | Hg                      | BL                              | /                                                      |            | /        |
|          |                  | Cr                      | BL                              | /                                                      |            | /        |
|          |                  | Br                      | NA                              | /                                                      |            | /        |
| 106      | Bronze metal     | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                  | Cd                      | BL                              | /                                                      |            | /        |
|          |                  | Hg                      | BL                              | /                                                      |            | /        |
|          |                  | Cr                      | BL                              | /                                                      |            | /        |
|          |                  | Br                      | NA                              | /                                                      |            | /        |
| 107      | Silvery metal    | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                  | Cd                      | BL                              | /                                                      |            | /        |
|          |                  | Hg                      | BL                              | /                                                      |            | /        |
|          |                  | Cr                      | BL                              | /                                                      |            | /        |
|          |                  | Br                      | NA                              | /                                                      |            | /        |
| 108      | Yellow plastic   | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                  | Cd                      | BL                              | /                                                      |            | /        |
|          |                  | Hg                      | BL                              | /                                                      |            | /        |
|          |                  | Cr                      | BL                              | /                                                      |            | /        |
|          |                  | Br                      | BL                              | /                                                      |            | /        |
| 109      | Red plastic      | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                  | Cd                      | BL                              | /                                                      |            | /        |
|          |                  | Hg                      | BL                              | /                                                      |            | /        |
|          |                  | Cr                      | BL                              | /                                                      |            | /        |
|          |                  | Br                      | BL                              | /                                                      |            | /        |
| 110      | Black plastic    | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                  | Cd                      | BL                              | /                                                      |            | /        |
|          |                  | Hg                      | BL                              | /                                                      |            | /        |
|          |                  | Cr                      | BL                              | /                                                      |            | /        |
|          |                  | Br                      | BL                              | /                                                      |            | /        |
| 111      | Silvery metal    | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                  | Cd                      | BL                              | /                                                      |            | /        |
|          |                  | Hg                      | BL                              | /                                                      |            | /        |
|          |                  | Cr                      | BL                              | /                                                      |            | /        |
|          |                  | Br                      | NA                              | /                                                      |            | /        |
| 112      | White plastic    | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                  | Cd                      | BL                              | /                                                      |            | /        |
|          |                  | Hg                      | BL                              | /                                                      |            | /        |
|          |                  | Cr                      | BL                              | /                                                      |            | /        |
|          |                  | Br                      | X                               | PBBs&PBDEs:N.D.                                        |            | /        |

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# TEST REPORT

Report No.: GST200600074EN

Report Date: Jun. 17, 2020

Page 16 of 35

| Part No. | Part Description    | Characteristic Elements | Results of EDXRF <sup>(1)</sup> | Results of Wet Chemical Testing (mg/kg) <sup>(2)</sup> | Conclusion | Comments |
|----------|---------------------|-------------------------|---------------------------------|--------------------------------------------------------|------------|----------|
| 113      | Silvery metal       | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                     | Cd                      | BL                              | /                                                      |            | /        |
|          |                     | Hg                      | BL                              | /                                                      |            | /        |
|          |                     | Cr                      | BL                              | /                                                      |            | /        |
|          |                     | Br                      | NA                              | /                                                      |            | /        |
| 114      | Red plastic         | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                     | Cd                      | BL                              | /                                                      |            | /        |
|          |                     | Hg                      | BL                              | /                                                      |            | /        |
|          |                     | Cr                      | BL                              | /                                                      |            | /        |
|          |                     | Br                      | BL                              | /                                                      |            | /        |
| 115      | Yellow plastic      | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                     | Cd                      | BL                              | /                                                      |            | /        |
|          |                     | Hg                      | BL                              | /                                                      |            | /        |
|          |                     | Cr                      | BL                              | /                                                      |            | /        |
|          |                     | Br                      | BL                              | /                                                      |            | /        |
| 116      | Black plastic       | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                     | Cd                      | BL                              | /                                                      |            | /        |
|          |                     | Hg                      | BL                              | /                                                      |            | /        |
|          |                     | Cr                      | BL                              | /                                                      |            | /        |
|          |                     | Br                      | BL                              | /                                                      |            | /        |
| 117      | Silvery metal       | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                     | Cd                      | BL                              | /                                                      |            | /        |
|          |                     | Hg                      | BL                              | /                                                      |            | /        |
|          |                     | Cr                      | BL                              | /                                                      |            | /        |
|          |                     | Br                      | NA                              | /                                                      |            | /        |
| 118      | White adhesive tape | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                     | Cd                      | BL                              | /                                                      |            | /        |
|          |                     | Hg                      | BL                              | /                                                      |            | /        |
|          |                     | Cr                      | BL                              | /                                                      |            | /        |
|          |                     | Br                      | BL                              | /                                                      |            | /        |
| 119      | Black adhesive tape | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                     | Cd                      | BL                              | /                                                      |            | /        |
|          |                     | Hg                      | BL                              | /                                                      |            | /        |
|          |                     | Cr                      | BL                              | /                                                      |            | /        |
|          |                     | Br                      | BL                              | /                                                      |            | /        |
| 120      | Silvery metal       | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                     | Cd                      | BL                              | /                                                      |            | /        |
|          |                     | Hg                      | BL                              | /                                                      |            | /        |
|          |                     | Cr                      | BL                              | /                                                      |            | /        |
|          |                     | Br                      | NA                              | /                                                      |            | /        |

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# TEST REPORT

Report No.: GST200600074EN

Report Date: Jun. 17, 2020

Page 17 of 35

| Part No. | Part Description                                  | Characteristic Elements | Results of EDXRF <sup>(1)</sup> | Results of Wet Chemical Testing (mg/kg) <sup>(2)</sup> | Conclusion | Comments |
|----------|---------------------------------------------------|-------------------------|---------------------------------|--------------------------------------------------------|------------|----------|
| 121      | Silver adhesive plastic with green/black printing | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                   | Br                      | BL                              | /                                                      |            | /        |
| 122      | Grey metal                                        | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                   | Br                      | NA                              | /                                                      |            | /        |
| 123      | Black plastic                                     | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                   | Br                      | X                               | PBBs&PBDEs:N.D.                                        |            | /        |
| 124      | Grey foam with glue                               | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                   | Br                      | BL                              | /                                                      |            | /        |
| 125      | Black plastic                                     | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                   | Br                      | X                               | PBBs&PBDEs:N.D.                                        |            | /        |
| 126      | Black magnetic plastic                            | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                   | Br                      | NA                              | /                                                      |            | /        |
| 127      | Grey metal                                        | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                   | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                   | Br                      | NA                              | /                                                      |            | /        |
| 128      | Silvery metal                                     | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                   | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                   | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                   | Cr                      | X                               | Cr <sup>6+</sup> :Negative                             |            | /        |
|          |                                                   | Br                      | NA                              | /                                                      |            | /        |

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# TEST REPORT

Report No.: GST200600074EN

Report Date: Jun. 17, 2020

Page 18 of 35

| Part No. | Part Description                               | Characteristic Elements | Results of EDXRF <sup>(1)</sup> | Results of Wet Chemical Testing (mg/kg) <sup>(2)</sup> | Conclusion | Comments |
|----------|------------------------------------------------|-------------------------|---------------------------------|--------------------------------------------------------|------------|----------|
| 129      | Black plastic                                  | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                | Br                      | BL                              | /                                                      |            | /        |
| 130      | White ceramic with black printing              | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                | Br                      | NA                              | /                                                      |            | /        |
| 131      | Blue plastic                                   | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                | Br                      | BL                              | /                                                      |            | /        |
| 132      | Silvery metal                                  | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                | Br                      | NA                              | /                                                      |            | /        |
| 133      | Green PCB with white printing with copper foil | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                | Br                      | X                               | PBBs&PBDEs:N.D.                                        |            | /        |
| 134      | Blue plastic                                   | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                | Br                      | BL                              | /                                                      |            | /        |
| 135      | Silvery metal                                  | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                | Cr                      | X                               | Cr <sup>6+</sup> :Negative                             |            | /        |
|          |                                                | Br                      | NA                              | /                                                      |            | /        |
| 136      | Black metal                                    | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                | Cr                      | X                               | Cr <sup>6+</sup> :Negative                             |            | /        |
|          |                                                | Br                      | NA                              | /                                                      |            | /        |

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# TEST REPORT

Report No.: GST200600074EN

Report Date: Jun. 17, 2020

Page 19 of 35

| Part No. | Part Description    | Characteristic Elements | Results of EDXRF <sup>(1)</sup> | Results of Wet Chemical Testing (mg/kg) <sup>(2)</sup> | Conclusion | Comments |
|----------|---------------------|-------------------------|---------------------------------|--------------------------------------------------------|------------|----------|
| 137      | Bronze metal        | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                     | Cd                      | BL                              | /                                                      |            | /        |
|          |                     | Hg                      | BL                              | /                                                      |            | /        |
|          |                     | Cr                      | BL                              | /                                                      |            | /        |
|          |                     | Br                      | NA                              | /                                                      |            | /        |
| 138      | Bronze metal        | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                     | Cd                      | BL                              | /                                                      |            | /        |
|          |                     | Hg                      | BL                              | /                                                      |            | /        |
|          |                     | Cr                      | BL                              | /                                                      |            | /        |
|          |                     | Br                      | NA                              | /                                                      |            | /        |
| 139      | Black plastic       | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                     | Cd                      | BL                              | /                                                      |            | /        |
|          |                     | Hg                      | BL                              | /                                                      |            | /        |
|          |                     | Cr                      | BL                              | /                                                      |            | /        |
|          |                     | Br                      | BL                              | /                                                      |            | /        |
| 140      | Silvery metal       | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                     | Cd                      | BL                              | /                                                      |            | /        |
|          |                     | Hg                      | BL                              | /                                                      |            | /        |
|          |                     | Cr                      | BL                              | /                                                      |            | /        |
|          |                     | Br                      | NA                              | /                                                      |            | /        |
| 141      | Silvery metal       | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                     | Cd                      | BL                              | /                                                      |            | /        |
|          |                     | Hg                      | BL                              | /                                                      |            | /        |
|          |                     | Cr                      | BL                              | /                                                      |            | /        |
|          |                     | Br                      | NA                              | /                                                      |            | /        |
| 142      | Silvery metal       | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                     | Cd                      | BL                              | /                                                      |            | /        |
|          |                     | Hg                      | BL                              | /                                                      |            | /        |
|          |                     | Cr                      | BL                              | /                                                      |            | /        |
|          |                     | Br                      | NA                              | /                                                      |            | /        |
| 143      | Silvery metal       | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                     | Cd                      | BL                              | /                                                      |            | /        |
|          |                     | Hg                      | BL                              | /                                                      |            | /        |
|          |                     | Cr                      | BL                              | /                                                      |            | /        |
|          |                     | Br                      | NA                              | /                                                      |            | /        |
| 144      | Transparent plastic | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                     | Cd                      | BL                              | /                                                      |            | /        |
|          |                     | Hg                      | BL                              | /                                                      |            | /        |
|          |                     | Cr                      | BL                              | /                                                      |            | /        |
|          |                     | Br                      | X                               | PBBs&PBDEs:N.D.                                        |            | /        |

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# TEST REPORT

Report No.: GST200600074EN

Report Date: Jun. 17, 2020

Page 20 of 35

| Part No. | Part Description | Characteristic Elements | Results of EDXRF <sup>(1)</sup> | Results of Wet Chemical Testing (mg/kg) <sup>(2)</sup> | Conclusion | Comments |
|----------|------------------|-------------------------|---------------------------------|--------------------------------------------------------|------------|----------|
| 145      | Black plastic    | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                  | Cd                      | BL                              | /                                                      |            | /        |
|          |                  | Hg                      | BL                              | /                                                      |            | /        |
|          |                  | Cr                      | BL                              | /                                                      |            | /        |
|          |                  | Br                      | X                               | PBBs&PBDEs:N.D.                                        |            | /        |
| 146      | Silvery metal    | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                  | Cd                      | BL                              | /                                                      |            | /        |
|          |                  | Hg                      | BL                              | /                                                      |            | /        |
|          |                  | Cr                      | BL                              | /                                                      |            | /        |
|          |                  | Br                      | NA                              | /                                                      |            | /        |
| 147      | Silvery metal    | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                  | Cd                      | BL                              | /                                                      |            | /        |
|          |                  | Hg                      | BL                              | /                                                      |            | /        |
|          |                  | Cr                      | BL                              | /                                                      |            | /        |
|          |                  | Br                      | NA                              | /                                                      |            | /        |
| 148      | Silvery metal    | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                  | Cd                      | BL                              | /                                                      |            | /        |
|          |                  | Hg                      | BL                              | /                                                      |            | /        |
|          |                  | Cr                      | BL                              | /                                                      |            | /        |
|          |                  | Br                      | NA                              | /                                                      |            | /        |
| 149      | Silvery metal    | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                  | Cd                      | BL                              | /                                                      |            | /        |
|          |                  | Hg                      | BL                              | /                                                      |            | /        |
|          |                  | Cr                      | BL                              | /                                                      |            | /        |
|          |                  | Br                      | NA                              | /                                                      |            | /        |
| 150      | Black plastic    | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                  | Cd                      | BL                              | /                                                      |            | /        |
|          |                  | Hg                      | BL                              | /                                                      |            | /        |
|          |                  | Cr                      | BL                              | /                                                      |            | /        |
|          |                  | Br                      | X                               | PBBs&PBDEs:N.D.                                        |            | /        |
| 151      | Blue plastic     | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                  | Cd                      | BL                              | /                                                      |            | /        |
|          |                  | Hg                      | BL                              | /                                                      |            | /        |
|          |                  | Cr                      | BL                              | /                                                      |            | /        |
|          |                  | Br                      | BL                              | /                                                      |            | /        |
| 152      | Black plastic    | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                  | Cd                      | BL                              | /                                                      |            | /        |
|          |                  | Hg                      | BL                              | /                                                      |            | /        |
|          |                  | Cr                      | BL                              | /                                                      |            | /        |
|          |                  | Br                      | BL                              | /                                                      |            | /        |

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# TEST REPORT

Report No.: GST200600074EN

Report Date: Jun. 17, 2020

Page 21 of 35

| Part No. | Part Description                         | Characteristic Elements | Results of EDXRF <sup>(1)</sup> | Results of Wet Chemical Testing (mg/kg) <sup>(2)</sup> | Conclusion | Comments |
|----------|------------------------------------------|-------------------------|---------------------------------|--------------------------------------------------------|------------|----------|
| 153      | Silvery/gold metal                       | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                          | Cd                      | BL                              | /                                                      |            | /        |
|          |                                          | Hg                      | BL                              | /                                                      |            | /        |
|          |                                          | Cr                      | BL                              | /                                                      |            | /        |
|          |                                          | Br                      | NA                              | /                                                      |            | /        |
| 154      | Silvery metal                            | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                          | Cd                      | BL                              | /                                                      |            | /        |
|          |                                          | Hg                      | BL                              | /                                                      |            | /        |
|          |                                          | Cr                      | BL                              | /                                                      |            | /        |
|          |                                          | Br                      | NA                              | /                                                      |            | /        |
| 155      | Beige plastic                            | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                          | Cd                      | BL                              | /                                                      |            | /        |
|          |                                          | Hg                      | BL                              | /                                                      |            | /        |
|          |                                          | Cr                      | BL                              | /                                                      |            | /        |
|          |                                          | Br                      | X                               | PBBs&PBDEs:N.D.                                        |            | /        |
| 156      | White adhesive paper with black printing | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                          | Cd                      | BL                              | /                                                      |            | /        |
|          |                                          | Hg                      | BL                              | /                                                      |            | /        |
|          |                                          | Cr                      | BL                              | /                                                      |            | /        |
|          |                                          | Br                      | BL                              | /                                                      |            | /        |
| 157      | Silvery metal                            | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                          | Cd                      | BL                              | /                                                      |            | /        |
|          |                                          | Hg                      | BL                              | /                                                      |            | /        |
|          |                                          | Cr                      | X                               | Cr <sup>6+</sup> :Negative                             |            | /        |
|          |                                          | Br                      | NA                              | /                                                      |            | /        |
| 158      | Brown transparent adhesive plastic       | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                          | Cd                      | BL                              | /                                                      |            | /        |
|          |                                          | Hg                      | BL                              | /                                                      |            | /        |
|          |                                          | Cr                      | BL                              | /                                                      |            | /        |
|          |                                          | Br                      | BL                              | /                                                      |            | /        |
| 159      | Silvery metal                            | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                          | Cd                      | BL                              | /                                                      |            | /        |
|          |                                          | Hg                      | BL                              | /                                                      |            | /        |
|          |                                          | Cr                      | BL                              | /                                                      |            | /        |
|          |                                          | Br                      | NA                              | /                                                      |            | /        |
| 160      | Silvery/gold metal                       | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                          | Cd                      | BL                              | /                                                      |            | /        |
|          |                                          | Hg                      | BL                              | /                                                      |            | /        |
|          |                                          | Cr                      | BL                              | /                                                      |            | /        |
|          |                                          | Br                      | NA                              | /                                                      |            | /        |

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# TEST REPORT

Report No.: GST200600074EN

Report Date: Jun. 17, 2020

Page 22 of 35

| Part No. | Part Description           | Characteristic Elements | Results of EDXRF <sup>(1)</sup> | Results of Wet Chemical Testing (mg/kg) <sup>(2)</sup> | Conclusion | Comments |
|----------|----------------------------|-------------------------|---------------------------------|--------------------------------------------------------|------------|----------|
| 161      | Grey plastic               | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                            | Cd                      | BL                              | /                                                      |            | /        |
|          |                            | Hg                      | BL                              | /                                                      |            | /        |
|          |                            | Cr                      | BL                              | /                                                      |            | /        |
|          |                            | Br                      | BL                              | /                                                      |            | /        |
| 162      | Black plastic              | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                            | Cd                      | BL                              | /                                                      |            | /        |
|          |                            | Hg                      | BL                              | /                                                      |            | /        |
|          |                            | Cr                      | BL                              | /                                                      |            | /        |
|          |                            | Br                      | X                               | PBBs&PBDEs:N.D.                                        |            | /        |
| 163      | Transparent green Plastic  | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                            | Cd                      | BL                              | /                                                      |            | /        |
|          |                            | Hg                      | BL                              | /                                                      |            | /        |
|          |                            | Cr                      | BL                              | /                                                      |            | /        |
|          |                            | Br                      | BL                              | /                                                      |            | /        |
| 164      | Transparent yellow plastic | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                            | Cd                      | BL                              | /                                                      |            | /        |
|          |                            | Hg                      | BL                              | /                                                      |            | /        |
|          |                            | Cr                      | BL                              | /                                                      |            | /        |
|          |                            | Br                      | BL                              | /                                                      |            | /        |
| 165      | Silvery metal              | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                            | Cd                      | BL                              | /                                                      |            | /        |
|          |                            | Hg                      | BL                              | /                                                      |            | /        |
|          |                            | Cr                      | BL                              | /                                                      |            | /        |
|          |                            | Br                      | NA                              | /                                                      |            | /        |
| 166      | Golden metal               | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                            | Cd                      | BL                              | /                                                      |            | /        |
|          |                            | Hg                      | BL                              | /                                                      |            | /        |
|          |                            | Cr                      | BL                              | /                                                      |            | /        |
|          |                            | Br                      | NA                              | /                                                      |            | /        |
| 167      | Black plastic              | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                            | Cd                      | BL                              | /                                                      |            | /        |
|          |                            | Hg                      | BL                              | /                                                      |            | /        |
|          |                            | Cr                      | BL                              | /                                                      |            | /        |
|          |                            | Br                      | BL                              | /                                                      |            | /        |
| 168      | Silvery metal              | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                            | Cd                      | BL                              | /                                                      |            | /        |
|          |                            | Hg                      | BL                              | /                                                      |            | /        |
|          |                            | Cr                      | BL                              | /                                                      |            | /        |
|          |                            | Br                      | NA                              | /                                                      |            | /        |

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# TEST REPORT

Report No.: GST200600074EN

Report Date: Jun. 17, 2020

Page 23 of 35

| Part No. | Part Description                     | Characteristic Elements | Results of EDXRF <sup>(1)</sup> | Results of Wet Chemical Testing (mg/kg) <sup>(2)</sup> | Conclusion | Comments           |
|----------|--------------------------------------|-------------------------|---------------------------------|--------------------------------------------------------|------------|--------------------|
| 169      | Golden metal                         | Pb                      | BL                              | /                                                      | Pass       | Resubmitted sample |
|          |                                      | Cd                      | BL                              | /                                                      |            |                    |
|          |                                      | Hg                      | BL                              | /                                                      |            |                    |
|          |                                      | Cr                      | BL                              | /                                                      |            |                    |
|          |                                      | Br                      | NA                              | /                                                      |            |                    |
| 170      | Black plastic                        | Pb                      | BL                              | /                                                      | Pass       | /                  |
|          |                                      | Cd                      | BL                              | /                                                      |            | /                  |
|          |                                      | Hg                      | BL                              | /                                                      |            | /                  |
|          |                                      | Cr                      | BL                              | /                                                      |            | /                  |
|          |                                      | Br                      | BL                              | /                                                      |            | /                  |
| 171      | Black plastic with brown printing    | Pb                      | BL                              | /                                                      | Pass       | /                  |
|          |                                      | Cd                      | BL                              | /                                                      |            | /                  |
|          |                                      | Hg                      | BL                              | /                                                      |            | /                  |
|          |                                      | Cr                      | BL                              | /                                                      |            | /                  |
|          |                                      | Br                      | BL                              | /                                                      |            | /                  |
| 172      | Black solid with copper/red coil     | Pb                      | BL                              | /                                                      | Pass       | /                  |
|          |                                      | Cd                      | BL                              | /                                                      |            | /                  |
|          |                                      | Hg                      | BL                              | /                                                      |            | /                  |
|          |                                      | Cr                      | BL                              | /                                                      |            | /                  |
|          |                                      | Br                      | NA                              | /                                                      |            | /                  |
| 173      | Silver white metal with red printing | Pb                      | BL                              | /                                                      | Pass       | /                  |
|          |                                      | Cd                      | BL                              | /                                                      |            | /                  |
|          |                                      | Hg                      | BL                              | /                                                      |            | /                  |
|          |                                      | Cr                      | BL                              | /                                                      |            | /                  |
|          |                                      | Br                      | NA                              | /                                                      |            | /                  |
| 174      | Black plastic                        | Pb                      | BL                              | /                                                      | Pass       | /                  |
|          |                                      | Cd                      | BL                              | /                                                      |            | /                  |
|          |                                      | Hg                      | BL                              | /                                                      |            | /                  |
|          |                                      | Cr                      | BL                              | /                                                      |            | /                  |
|          |                                      | Br                      | BL                              | /                                                      |            | /                  |
| 175      | Brown paper                          | Pb                      | BL                              | /                                                      | Pass       | /                  |
|          |                                      | Cd                      | BL                              | /                                                      |            | /                  |
|          |                                      | Hg                      | BL                              | /                                                      |            | /                  |
|          |                                      | Cr                      | BL                              | /                                                      |            | /                  |
|          |                                      | Br                      | BL                              | /                                                      |            | /                  |
| 176      | Silvery grey foil                    | Pb                      | BL                              | /                                                      | Pass       | /                  |
|          |                                      | Cd                      | BL                              | /                                                      |            | /                  |
|          |                                      | Hg                      | BL                              | /                                                      |            | /                  |
|          |                                      | Cr                      | BL                              | /                                                      |            | /                  |
|          |                                      | Br                      | NA                              | /                                                      |            | /                  |

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# TEST REPORT

Report No.: GST200600074EN

Report Date: Jun. 17, 2020

Page 24 of 35

| Part No. | Part Description               | Characteristic Elements | Results of EDXRF <sup>(1)</sup> | Results of Wet Chemical Testing (mg/kg) <sup>(2)</sup> | Conclusion | Comments |
|----------|--------------------------------|-------------------------|---------------------------------|--------------------------------------------------------|------------|----------|
| 177      | Silvery metal                  | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                | Cd                      | BL                              | /                                                      |            | /        |
|          |                                | Hg                      | BL                              | /                                                      |            | /        |
|          |                                | Cr                      | BL                              | /                                                      |            | /        |
|          |                                | Br                      | NA                              | /                                                      |            | /        |
| 178      | Black plastic                  | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                | Cd                      | BL                              | /                                                      |            | /        |
|          |                                | Hg                      | BL                              | /                                                      |            | /        |
|          |                                | Cr                      | BL                              | /                                                      |            | /        |
|          |                                | Br                      | BL                              | /                                                      |            | /        |
| 179      | Grey solid with black printing | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                | Cd                      | BL                              | /                                                      |            | /        |
|          |                                | Hg                      | BL                              | /                                                      |            | /        |
|          |                                | Cr                      | X                               | Cr <sup>6+</sup> :Negative                             |            | /        |
|          |                                | Br                      | NA                              | /                                                      |            | /        |
| 180      | Bronze metal                   | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                | Cd                      | BL                              | /                                                      |            | /        |
|          |                                | Hg                      | BL                              | /                                                      |            | /        |
|          |                                | Cr                      | X                               | Cr <sup>6+</sup> :Negative                             |            | /        |
|          |                                | Br                      | NA                              | /                                                      |            | /        |
| 181      | Black plastic                  | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                | Cd                      | BL                              | /                                                      |            | /        |
|          |                                | Hg                      | BL                              | /                                                      |            | /        |
|          |                                | Cr                      | BL                              | /                                                      |            | /        |
|          |                                | Br                      | BL                              | /                                                      |            | /        |
| 182      | Brown ceramics                 | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                | Cd                      | BL                              | /                                                      |            | /        |
|          |                                | Hg                      | BL                              | /                                                      |            | /        |
|          |                                | Cr                      | BL                              | /                                                      |            | /        |
|          |                                | Br                      | NA                              | /                                                      |            | /        |
| 183      | Black plastic                  | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                | Cd                      | BL                              | /                                                      |            | /        |
|          |                                | Hg                      | BL                              | /                                                      |            | /        |
|          |                                | Cr                      | BL                              | /                                                      |            | /        |
|          |                                | Br                      | BL                              | /                                                      |            | /        |
| 184      | Black ceramics                 | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                | Cd                      | BL                              | /                                                      |            | /        |
|          |                                | Hg                      | BL                              | /                                                      |            | /        |
|          |                                | Cr                      | BL                              | /                                                      |            | /        |
|          |                                | Br                      | NA                              | /                                                      |            | /        |

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# TEST REPORT

Report No.: GST200600074EN

Report Date: Jun. 17, 2020

Page 25 of 35

| Part No. | Part Description                               | Characteristic Elements | Results of EDXRF <sup>(1)</sup> | Results of Wet Chemical Testing (mg/kg) <sup>(2)</sup> | Conclusion | Comments |
|----------|------------------------------------------------|-------------------------|---------------------------------|--------------------------------------------------------|------------|----------|
| 185      | Black plastic with brown printing              | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                | Br                      | BL                              | /                                                      |            | /        |
| 186      | Black/gold metal                               | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                | Br                      | NA                              | /                                                      |            | /        |
| 187      | Silvery metal                                  | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                | Cr                      | X                               | Cr <sup>6+</sup> :Negative                             |            | /        |
|          |                                                | Br                      | NA                              | /                                                      |            | /        |
| 188      | Taupe glass                                    | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                | Br                      | NA                              | /                                                      |            | /        |
| 189      | Green PCB                                      | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                | Br                      | BL                              | /                                                      |            | /        |
| 190      | Black PCB with white printing with copper foil | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                | Br                      | X                               | PBBs&PBDEs:N.D.                                        |            | /        |
| 191      | Silvery metal                                  | Pb                      | BL                              | /                                                      | Pass       | /        |
|          |                                                | Cd                      | BL                              | /                                                      |            | /        |
|          |                                                | Hg                      | BL                              | /                                                      |            | /        |
|          |                                                | Cr                      | BL                              | /                                                      |            | /        |
|          |                                                | Br                      | NA                              | /                                                      |            | /        |



# TEST REPORT

Report No.: GST200600074EN

Report Date: Jun. 17, 2020

Page 26 of 35

## Remark:

- (1) ① Results are obtained by EDXRF for primary screening, and further wet chemical testing by ICP-OES (for Cd, Pb, Hg), UV-VIS (for Cr(VI)) and GC/MS (for PBBs, PBDEs) is recommended to be performed, if an inconclusive result was found (as "X" in below table) (unit: mg/kg).
- ② OL = Over Limit, BL = Below Limit, X = Inconclusive, NA = Not Applicable.
- ③ The EDXRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

| 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      | $BL \leq (700-3\sigma) < X$                          | $BL \leq (700-3\sigma) < X$                          | $BL \leq (500-3\sigma) < X$                          |

## 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.



# TEST REPORT

Report No.: GST200600074EN

Report Date: Jun. 17, 2020

Page 27 of 35

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

Test Method: IEC 62321-8: 2017, analyzed by gas chromatographic- mass spectrometer (GC-MS).

| Substances    | DBP                  | BBP     | DEHP     | DIBP    | Conclusion |
|---------------|----------------------|---------|----------|---------|------------|
| CAS#          | 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      |            |
| Part No.      | Test Results (mg/kg) |         |          |         | Pass       |
| 3+4+5         | ND                   | ND      | ND       | ND      |            |
| 6+7+8         | ND                   | ND      | ND       | ND      |            |
| 14+15+16      | ND                   | ND      | ND       | ND      |            |
| 18+20+21      | ND                   | ND      | ND       | ND      |            |
| 22+23+28      | ND                   | ND      | ND       | ND      |            |
| 29+30+31      | ND                   | ND      | ND       | ND      |            |
| 36+37+38      | ND                   | ND      | ND       | ND      |            |
| 40+41+46      | ND                   | ND      | ND       | ND      |            |
| 48+52         | ND                   | ND      | ND       | ND      |            |
| 53+54+56      | ND                   | ND      | ND       | ND      |            |
| 57+65+68      | ND                   | ND      | ND       | ND      |            |
| 69+70+74      | ND                   | ND      | ND       | ND      |            |
| 76+78+83      | ND                   | ND      | ND       | ND      |            |
| 85+88+89      | ND                   | ND      | ND       | ND      |            |
| 91+97+98      | ND                   | ND      | ND       | ND      |            |
| 100+103+104   | ND                   | ND      | ND       | ND      |            |
| 108+109+110   | ND                   | ND      | ND       | ND      |            |
| 112+114+115   | ND                   | ND      | ND       | ND      |            |
| 116+118+119   | ND                   | ND      | ND       | ND      |            |
| 121+123+124   | ND                   | ND      | ND       | ND      |            |
| 125+129+131   | ND                   | ND      | ND       | ND      |            |
| 133+134+139   | ND                   | ND      | ND       | ND      |            |
| 144+145+150   | ND                   | ND      | ND       | ND      |            |
| 151+152+155   | ND                   | ND      | ND       | ND      |            |
| 156+158+161   | ND                   | ND      | ND       | ND      |            |
| 162+163+164   | ND                   | ND      | ND       | ND      |            |
| 167+170+171   | ND                   | ND      | ND       | ND      |            |
| 174+178+181   | ND                   | ND      | ND       | ND      |            |
| 183+185       | ND                   | ND      | ND       | ND      |            |
| 189+190       | ND                   | ND      | ND       | ND      |            |

Remark:

1, mg/kg = milligram per kilogram (ppm)

2, RL = Reporting Limit

3, ND = Not Detected (Less than RL)

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# TEST REPORT

Report No.: GST200600074EN

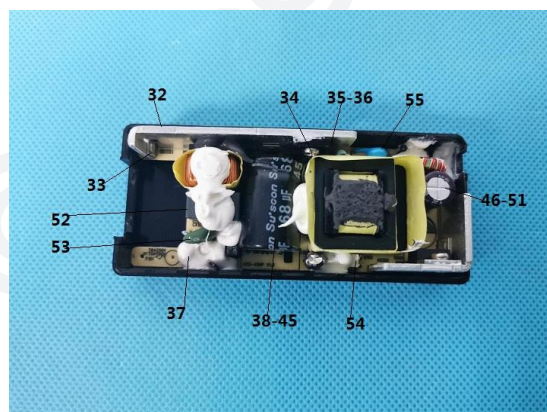
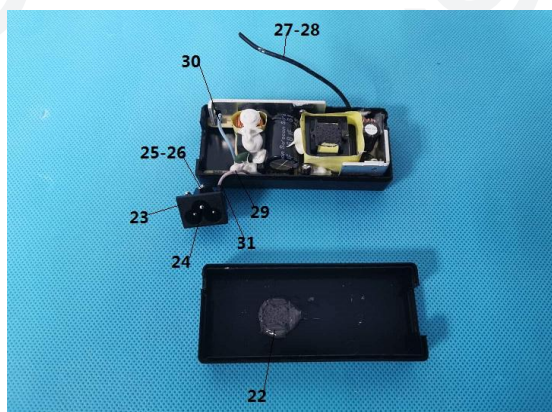
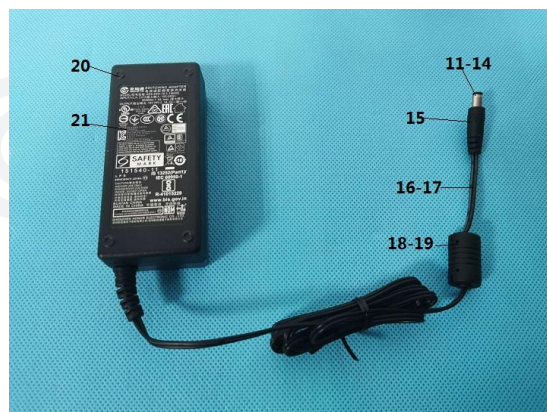
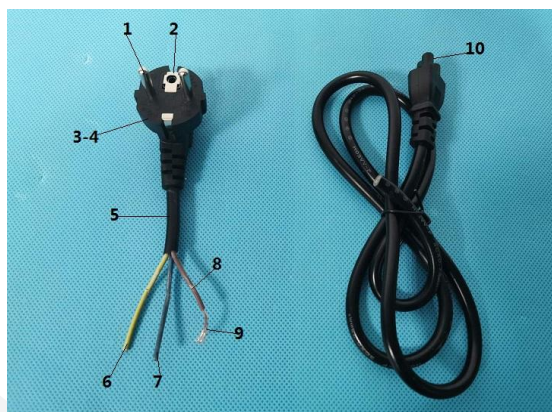
Report Date: Jun. 17, 2020

Page 28 of 35

## Sample Photo



## Tested Parts Photos



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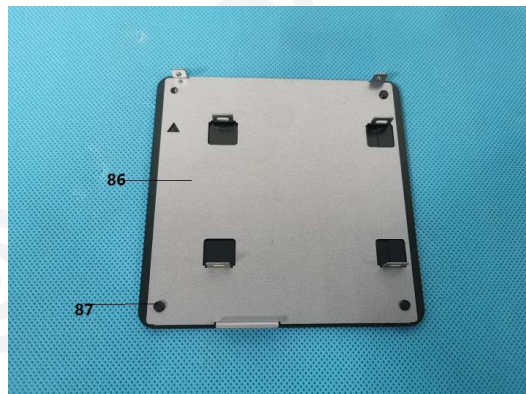
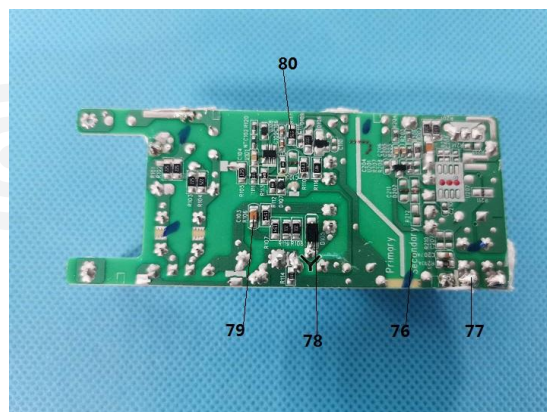
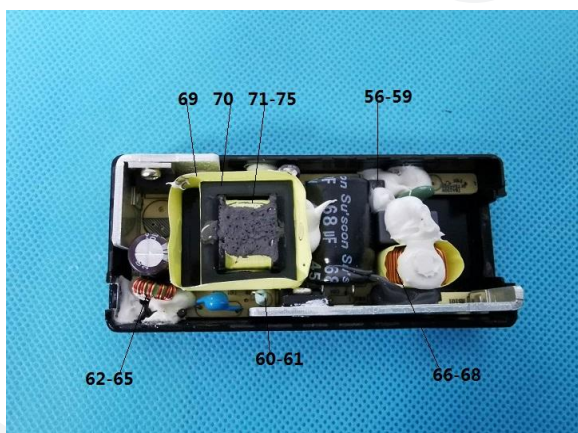
# TEST REPORT

Report No.: GST200600074EN

Report Date: Jun. 17, 2020

Page 29 of 35

## Tested Parts Photos





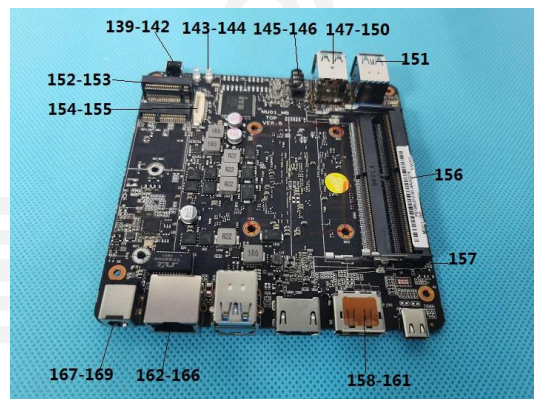
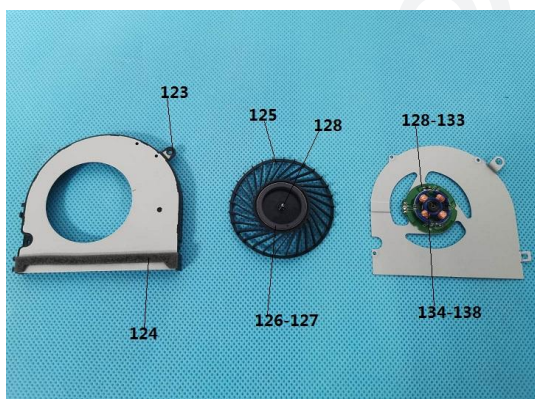
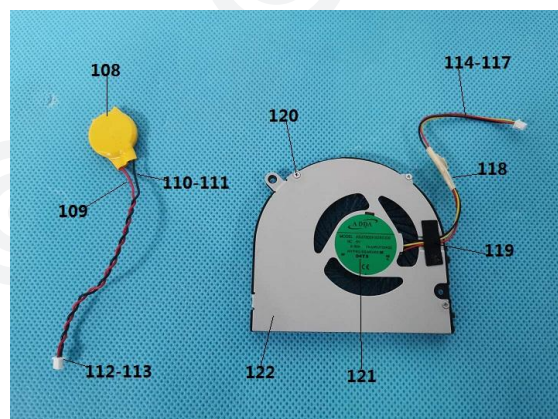
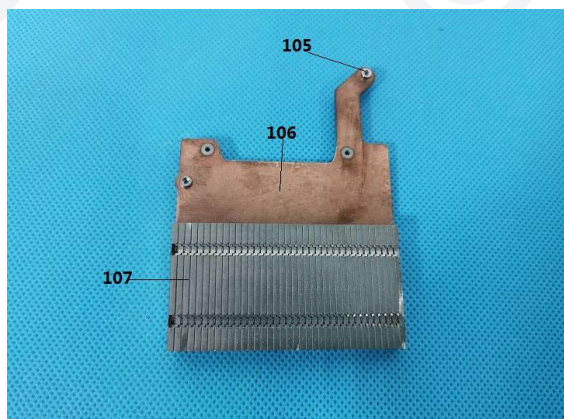
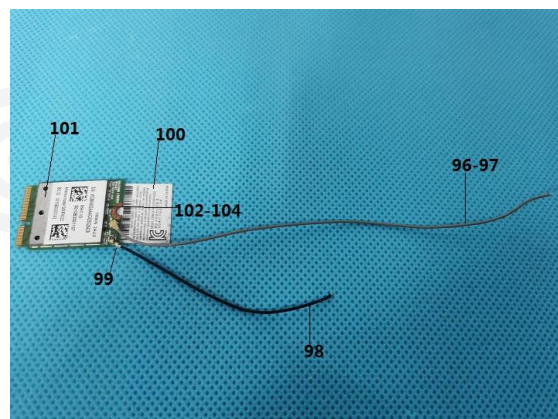
# TEST REPORT

Report No.: GST200600074EN

Report Date: Jun. 17, 2020

Page 30 of 35

## Tested Parts Photos





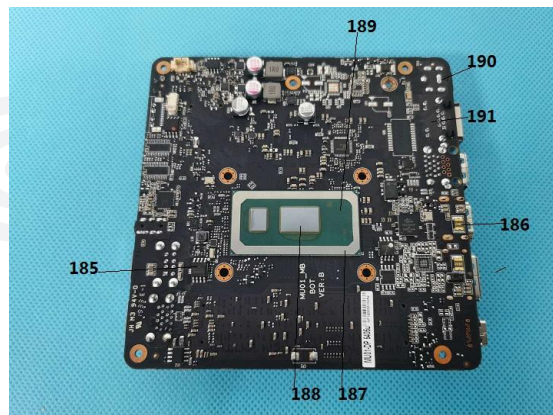
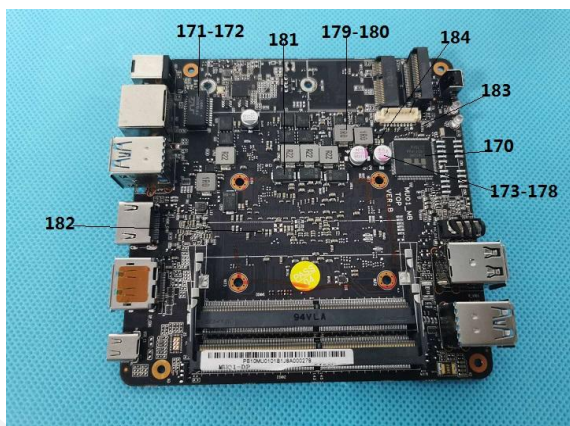
# TEST REPORT

Report No.: GST200600074EN

Report Date: Jun. 17, 2020

Page 31 of 35

## Tested Parts Photos





# TEST REPORT

Report No.: GST200600074EN

Report Date: Jun. 17, 2020

Page 32 of 35

## 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
- 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(a) Lead in glass of cathode ray tubes
- 5(b) Lead in glass of fluorescent tubes not exceeding 0.2% by weight
- 6(a) Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35% lead by weight (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.)
- 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) Lead as an alloying element in aluminium containing up to 0.4% lead by weight (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.)
- 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(b) Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission, and network management for telecommunications
- 7(c)-I Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectric



# TEST REPORT

Report No.: GST200600074EN

Report Date: Jun. 17, 2020

Page 33 of 35

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)-III Lead in dielectric ceramic in capacitors for a rated voltage of less than 125V AC or 250V DC (For spare parts for EEE placed on the market before 1 January 2013).

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 monitoring and control instruments, and for category 11.)

8(a) Cadmium and its compounds in one shot pellet type thermal cut-offs (For spare parts for EEE placed on the market before 1 January 2012)

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)-I 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 (including minibars) designed to operate fully or partly with electrical heater, having an average utilised power input  $< 75$  W at constant running conditions. (Applies to categories 1-7 and 10 and expires on 5 March 2021.)

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.)

11(b) Lead used in other than C-press compliant pin connector systems (For spare parts for EEE placed on the market before 1 January 2013)

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)

14 Lead in solders consisting of more than two elements for the connection between the pins and the package of microprocessors with a lead content of more than 80% and less than 85% by weight (For spare parts for EEE placed on the market before 1 January 2011)

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.)



# TEST REPORT

Report No.: GST200600074EN

Report Date: Jun. 17, 2020

Page 34 of 35

- 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.)
- 17 Lead halide as radiant agent in High Intensity Discharge (HID) lamps used for professional reprography applications
- 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.)
- 21(a) Cadmium when used in colour printed glass to provide filtering functions, used as a component in lighting applications installed in displays and control panels of EEE (Applies to categories 1 to 7 and 10 except applications covered by entry 21(b) or entry 39 and expires on 21 July 2021)
- 21(b) Cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses (Applies to categories 1 to 7 and 10 except applications covered by entry 21(a) or 39 and expires on 21 July 2021)
- 21(c) Lead in printing inks for the application of enamels on other than borosilicate glasses (Applies to categories 1 to 7 and 10 and expires on 21 July 2021.)
- 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.)
- 25 Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring
- 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.)
- 30 Cadmium alloys as electrical/mechanical solder joints to electrical conductors located directly on the voice coil in transducers used in high-powered loudspeakers with sound pressure levels of 100 dB (A) and more
- 31 Lead in soldering materials in mercury free flat fluorescent lamps (which e.g. are used for liquid crystal displays, design or industrial lighting)
- 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.)
- 33 Lead in solders for the soldering of thin copper wires of 100 µm diameter and less in power transformers
- 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.)
- 38 Cadmium and cadmium oxide in thick film pastes used on aluminium bonded beryllium oxide
- 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



# TEST REPORT

Report No.: GST200600074EN

Report Date: Jun. 17, 2020

Page 35 of 35

- 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 <sup>(1)</sup>, 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)

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