

**CORE CORPORATION** CORE R&D CENTER. 11-1. MINAMIKUROKAWA. ASAO-KU. KAWASAKI-SHI. KANAGAWA

## The following sample(s) was/were submitted and identified by/on behalf of the applicant as:

Sample Description GR-PEACH (FULL)

: X28A-M01G Style/Item No. Sample Receiving Date 2016/09/09

2016/09/09 to 2016/09/29 **Testing Period** 

: From client requirements, with reference to the China RoHS limits of GB/T 26572-2011 to determine Cadmium, Lead, Mercury, Cr(VI), **Test Requested** 

PBBs, PBDEs content in the submitted sample.

Test Result(s) : Please refer to next page(s).

Conclusion Based upon the performed tests on submitted samples, the test results comply with the China RoHS limits of GB/T 26572-2011.



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## 1. Material Fraction Composition

Table 1 The results of XRF screening and chemical test (Unit: mg/kg)





|     |   |     |                         |           |                       | X-ray Sc | reening | UV      | ICP-AES  | GC-MS    |      |
|-----|---|-----|-------------------------|-----------|-----------------------|----------|---------|---------|----------|----------|------|
| No. | Type of Components  |     | Description             | Figure    | MDL Category          | Element  | Data    | Cr (VI) | Pb/Cd/Hg | PBB/PBDE | Note |
|     | PCBA  |     |                         | N         |                       | Pb       | n.d.    |         |          |          |      |
|     |   |     |                         |           |                       | Cd       | n.d.    |         |          |          |      |
|     |   |     |                         |           |                       | Hg       | n.d.    |         |          |          |      |
|     |   | 1.1 | ELECTRONIC              |           | Composite             | Cr       | n.d.    |         |          |          |      |
|     |   | 1   | COMPONENT               |           | Material              | Br       | n.d.    |         |          |          |      |
|     |   |     |                         |           |                       | Cr(VI)   |         |         |          |          |      |
|     | . 10 + O. Domes   |     |                         |           |                       | PBB      |         |         |          |          |      |
|     |   | 8   |                         |           |                       | PBDE     |         |         |          |          |      |
|     |   | 1.2 |                         | of office | Composite<br>Material | Pb       | n.d.    |         |          |          |      |
|     |   |     |                         |           |                       | Cd       | n.d.    |         |          |          |      |
|     |   |     | ELECTRONIC<br>COMPONENT |           |                       | Hg       | n.d.    |         |          |          |      |
| 1   |   |     |                         |           |                       | Cr       | 141     |         |          |          |      |
| '   | As and a second |     |                         |           |                       | Br       | n.d.    |         |          |          |      |
|     |   |     |                         |           |                       | Cr(VI)   |         |         |          |          |      |
|     |   |     |                         |           |                       | PBB      |         |         |          |          |      |
|     | 6 m 1 2 -   |     |                         |           |                       | PBDE     |         |         |          |          |      |
|     |   |     |                         |           |                       | Pb       | 349     |         |          |          |      |
|     |   |     |                         |           | _                     | Cd       | n.d.    |         |          |          |      |
|     | •   |     |                         |           | _                     | Hg       | n.d.    |         |          |          |      |
|     |   | 1.3 | SOLDER                  |           | Metals -              | Cr       | n.d.    |         |          |          |      |
|     |   |     | JOEDLIN                 |           |                       | Br       | n.d.    |         |          |          |      |
|     |   |     |                         |           |                       | Cr(VI)   |         |         |          |          |      |
|     |   |     |                         | 101       | -                     | PBB      |         |         |          |          |      |
|     |   |     |                         |           |                       | PBDE     |         |         |          |          |      |

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| No. | p. Type of Components                   |     | Description              | Figure N   | MDL Category | X-ray So | reening | UV      | ICP-AES  | GC-MS    | Note |
|-----|---|-----|--------------------------|--|--------------|----------|---------|---------|----------|----------|------|
|     | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |     |                          | 1.9  |              | Element  | Data    | Cr (VI) | Pb/Cd/Hg | PBB/PBDE |      |
|     | PCBA                                    |     |                          |  |              | Pb       | n.d.    |         |          |          |      |
|     |   |     |                          |  |              | Cd       | n.d.    |         |          |          |      |
|     |   |     |                          |  |              | Hg       | n.d.    |         |          |          |      |
|     |   | 1.4 | RAW PCB                  |  | Composite    | Cr       | n.d.    |         |          |          |      |
|     | 1 1 2 B 1 2 B 1 B 1 B 1 B 1 B 1 B 1 B 1 | 1   | IVAVIOD                  |  | Material     | Br       | 383     |         |          |          |      |
|     |   |     |                          | •  |              | Cr(VI)   |         |         |          |          |      |
|     | •                                       |     |                          |  |              | PBB      |         |         |          | n.d.     |      |
|     |   |     |                          |  |              | PBDE     |         |         |          | n.d.     |      |
|     | PCBA                                    |     |                          |  |              | Pb       | n.d.    |         |          |          |      |
|     |   |     |                          |  | Polymers -   | Cd       | n.d.    |         |          |          |      |
|     |   |     | BLACK PLASTIC<br>HOUSING |  |              | Hg       | n.d.    |         |          |          |      |
|     |   | 1.5 |                          |  |              | Cr       | n.d.    |         |          |          |      |
|     |   | 1.0 |                          |  |              | Br       | 117000  |         |          |          |      |
|     |   |     |                          |  |              | Cr(VI)   |         |         |          |          |      |
|     | The second second                       |     |                          |  |              | PBB      |         |         |          | n.d.     |      |
| 1   |   |     |                          |  |              | PBDE     |         |         |          | n.d.     |      |
|     |   |     | GOLDEN METALLIC          | 10   | -            | Pb       | n.d.    |         |          |          |      |
|     | 10 PM                                   |     |                          |  |              | Cd       | n.d.    |         |          |          |      |
|     | ::::::::::::::::::::::::::::::::::::::  |     |                          |  |              | Hg       | n.d.    |         |          |          |      |
|     |   | 1.6 |                          |  | Metals       | Cr       | n.d.    |         |          |          |      |
|     |   | 1.0 | PIN                      | INVA TO THE REAL PROPERTY OF THE PERTY OF TH | Wetais       | Br       | n.d.    |         |          |          |      |
|     |   |     |                          |  |              | Cr(VI)   |         |         |          |          |      |
|     | Total Ballion                           |     |                          |  |              | PBB      |         |         |          |          |      |
|     | 1000                                    |     |                          | The state of the s |              | PBDE     |         |         |          |          |      |
|     | \$ 10 PER 19 1                          |     |                          |  |              | Pb       | n.d.    |         |          |          |      |
|     | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   |     |                          | <b>建设</b> 有关的  |              | Cd       | n.d.    |         |          |          |      |
|     |   |     |                          |  |              | Hg       | n.d.    |         |          |          |      |
|     |   | 1.7 | SILVERY METALLIC         | 旗  | Metals       | Cr       | 98600   |         |          |          |      |
|     |   |     | FRAME                    |  | Wotalo       | Br       | n.d.    |         |          |          |      |
|     |   |     |                          |  |              | Cr(VI)   |         | n.d.    |          |          |      |
|     |   |     |                          |  |              | PBB      |         |         |          |          |      |
|     |   |     |                          | <b>建筑的设备的是这个大学的</b>  |              | PBDE     |         |         |          |          |      |

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| No. | Type of Components                       |      | Description               | Figure   | MDL Category | X-ray So | creening | UV      | ICP-AES  | GC-MS    | Note |
|-----|--|------|---------------------------|--|--------------|----------|----------|---------|----------|----------|------|
|     |  |      |                           | g  | 3.00         | Element  | Data     | Cr (VI) | Pb/Cd/Hg | PBB/PBDE |      |
|     | PCBA                                     |      |                           | 100  |              | Pb       | n.d.     |         |          |          |      |
|     |  |      |                           |  |              | Cd       | n.d.     | 1       |          |          |      |
|     |  |      |                           | M.A.   |              | Hg       | n.d.     |         |          |          |      |
|     |  | 1.8  | BLACK PLASTIC             | AND SECOND   | Polymers     | Cr       | n.d.     |         |          |          |      |
|     |  | 1.0  | HOUSING                   |  | Folymers     | Br       | n.d.     |         |          |          |      |
|     |  |      |                           | 400  |              | Cr(VI)   |          |         |          |          |      |
|     |  |      |                           | 200  |              | PBB      |          |         |          |          |      |
|     |  |      |                           |  |              | PBDE     |          |         |          |          |      |
|     |  |      |                           |  |              | Pb       | n.d.     |         |          |          |      |
|     | 80                                       |      |                           |  |              | Cd       | n.d.     |         |          |          |      |
|     |  |      |                           | - 1464   |              | Hg       | n.d.     |         |          |          |      |
|     |  | 1.9  | SILVERY METALLIC          | 3400 C   | Metals       | Cr       | 167000   |         |          |          |      |
|     |  | 1.5  | FRAME                     | A CONTRACTOR OF THE PARTY OF TH | IVICIAIS     | Br       | n.d.     |         |          |          |      |
|     |  |      |                           |  |              | Cr(VI)   |          | n.d.    |          |          |      |
|     | CHARLES CONTRACTOR                       |      |                           |  |              | PBB      |          |         |          |          |      |
| 1   |  |      |                           |  |              | PBDE     |          |         |          |          |      |
| '   |  |      |                           |  |              | Pb       | n.d.     |         |          |          |      |
|     | - 14 (14 (14 (14 (14 (14 (14 (14 (14 (14 |      |                           |  |              | Cd       | n.d.     |         |          |          |      |
|     |  |      |                           |  |              | Hg       | n.d.     |         |          |          |      |
|     |  | 1.10 | BLACK PLASTIC             | - 600  | Polymers     | Cr       | n.d.     |         |          |          |      |
|     | 1 Mary Marines 1                         | 1.10 | FRAME                     | 100000   | 1 Olymora    | Br       | n.d.     |         |          |          |      |
|     | 0000                                     |      |                           | 10000  |              | Cr(VI)   |          |         |          |          |      |
|     | The second second                        |      |                           | 19   |              | PBB      |          |         |          |          |      |
|     |  |      |                           |  |              | PBDE     |          |         |          |          |      |
|     |  |      |                           |  |              | Pb       | n.d.     |         |          |          |      |
|     |  |      |                           |  |              | Cd       | n.d.     |         |          |          |      |
|     |  |      |                           |  |              | Hg       | n.d.     |         |          |          |      |
|     |  | 1.11 | SILVERY METALLIC<br>SHEET |  | Metals       | Cr       | 183000   |         |          |          |      |
|     |  |      | SHEET                     |  |              | Br       | n.d.     |         |          |          |      |
|     |  |      |                           |  |              | Cr(VI)   |          | n.d.    |          |          |      |
|     |  |      |                           | <b>对于</b>  |              | PBB      |          |         |          |          |      |
|     |  |      |                           |  |              | PBDE     |          |         |          |          |      |

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| No. | Type of Components  |      | Description      | Figure                    | MDL Category | X-ray So | creening | UV      | ICP-AES  | GC-MS    | Note |
|-----|---|------|------------------|---------------------------|--------------|----------|----------|---------|----------|----------|------|
|     |   |      |                  | 1.54.1                    | ,            | Element  | Data     | Cr (VI) | Pb/Cd/Hg | PBB/PBDE |      |
|     | PCBA  |      |                  | EASTERNAL TO THE PARTY OF |              | Pb       | n.d.     |         |          |          |      |
|     |   |      |                  |                           |              | Cd       | n.d.     | ]       |          |          |      |
|     |   |      |                  |                           |              | Hg       | n.d.     |         |          |          |      |
|     |   | 1.12 | BEIGE PLASTIC    |                           | Polymers     | Cr       | n.d.     |         |          |          |      |
|     |   | 1.12 | BUTTON           |                           | Polymers     | Br       | n.d.     |         |          |          |      |
|     |   |      |                  |                           |              | Cr(VI)   |          |         |          |          |      |
|     |   |      |                  |                           |              | PBB      |          |         |          |          |      |
|     |   |      |                  | 是是专门组织的是外外。               |              | PBDE     |          |         |          |          |      |
|     |   |      |                  |                           |              | Pb       | n.d.     |         |          |          |      |
|     |   |      |                  |                           |              | Cd       | n.d.     |         |          |          |      |
|     |   |      |                  |                           |              | Hg       | n.d.     |         |          |          |      |
|     |   | 1.13 | SILVERY METALLIC |                           | Metals       | Cr       | 109000   |         |          |          |      |
|     |   | 1.15 | FRAME            |                           | IVICIAIS     | Br       | n.d.     |         |          |          |      |
|     |   |      |                  |                           |              | Cr(VI)   |          | n.d.    |          |          |      |
|     | - Interest of the last of the |      |                  | 1                         |              | PBB      |          |         |          |          |      |
| 1   |   |      |                  |                           |              | PBDE     |          |         |          |          |      |
| '   |   |      |                  |                           |              | Pb       | n.d.     |         |          |          |      |
|     |   |      |                  |                           |              | Cd       | n.d.     |         |          |          |      |
|     |   |      |                  | -                         | L            | Hg       | n.d.     |         |          |          |      |
|     |   | 1.14 | BLACK PLASTIC    | FEEDA                     | Polymers     | Cr       | n.d.     |         |          |          |      |
|     | 1 Details   |      | HOUSING          | Partie Allen              | 1 diyinidid  | Br       | 51800    |         |          |          |      |
|     | Torse Target  |      |                  |                           |              | Cr(VI)   |          |         |          |          |      |
|     | Est Carrier Commen  |      |                  |                           |              | PBB      |          |         |          | n.d.     |      |
|     |   |      |                  |                           |              | PBDE     |          |         |          | n.d.     |      |
|     |   |      |                  |                           |              | Pb       | n.d.     |         |          |          |      |
|     |   |      |                  |                           |              | Cd       | n.d.     |         |          |          |      |
|     |   |      |                  |                           |              | Hg       | n.d.     |         |          |          |      |
|     |   | 1.15 | LED              | C-                        | Composite    | Cr       | n.d.     |         |          |          |      |
|     |   |      |                  |                           | Material     | Br       | n.d.     |         |          |          |      |
|     |   |      |                  |                           |              | Cr(VI)   |          |         |          |          |      |
|     |   |      |                  |                           |              | PBB      |          |         |          |          |      |
|     |   |      |                  |                           |              | PBDE     |          |         |          |          |      |

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| No  | No. Type of Components                  |            | Description | Figure | MDL Category _        | X-ray Screening |      | UV      | ICP-AES  | GC-MS    | Note |
|-----|---|------------|-------------|--------|-----------------------|-----------------|------|---------|----------|----------|------|
| 110 | Type of Components                      | Bosonption |             |        |                       | Element         | Data | Cr (VI) | Pb/Cd/Hg | PBB/PBDE |      |
|     | PCBA                                    |            |             |        |                       | Pb              | n.d. |         |          |          |      |
|     | 1.16                                    |            |             |        | Composite<br>Material | Cd              | n.d. |         |          |          |      |
|     |   |            |             |        |                       | Hg              | n.d. |         |          |          |      |
| 1   |   | 1.16       | 1.16 LED    |        |                       | Cr              | n.d. |         |          |          |      |
| 1.  |   | 1.10       | LLD         |        |                       | Br              | n.d. |         |          |          |      |
|     |   |            |             |        |                       | Cr(VI)          |      |         |          |          |      |
|     |   |            |             |        |                       | PBB             |      |         |          |          |      |
|     | *************************************** |            |             | にはなる。  |                       | PBDE            |      |         |          |          |      |



| Test Item :   |                     | MDL (n   | XRF screening         | Test method |                      |                   |
|---------------|---------------------|----------|-----------------------|-------------|----------------------|-------------------|
|               | Category<br>Element | Polymers | Composite<br>Material | Metals      | threshold<br>(mg/kg) |                   |
| XRF           | Pb                  | 50       | 100                   | 100         | 500                  | With reference to |
| (X-ray        | Cd                  | 50       | 50                    | 50          | 50                   | GB/T 26125-       |
| fluorescence) | Hg                  | 50       | 100                   | 100         | 500                  | 2011              |
|               | Cr                  | 50       | 100                   | 100         | 500                  |                   |
|               | Br                  | 50       | 100                   | n.a.        | 250                  |                   |

| Test Item (s): | Test method  | MDL<br>(mg/kg) | Facilities |
|----------------|--|----------------|------------|
| Cr(VI)         | With reference to GB/T 26125-2011 (For Polymers and Electronics) | 2              | UV         |
| Pb/Cd          | With reference to CD/T 26125 2011                                | 2              | ICP-AFS    |
| Hg             | With reference to GB/T 26125-2011                                | 2              | ICP-AES    |

| Test Item (s): | Test method   | MDL<br>(μg/cm²) | Facilities |
|----------------|---|-----------------|------------|
| Cr(VI)(#2)     | With reference to IEC 62321-7-1:2015 (For Coatings on Metals) | 0.1             | UV         |

| Test Item (s):           | Unit  | Method                                | MDL<br>(mg/kg) |
|--------------------------|-------|---------------------------------------|----------------|
| PBBs                     |       |                                       |                |
| Monobromobiphenyl        | mg/kg |                                       | 5              |
| Dibromobiphenyl          | mg/kg |                                       | 5              |
| Tribromobiphenyl         | mg/kg |                                       | 5              |
| Tetrabromobiphenyl       | mg/kg |                                       | 5              |
| Pentabromobiphenyl       | mg/kg |                                       | 5              |
| Hexabromobiphenyl        | mg/kg |                                       | 5              |
| Heptabromobiphenyl       | mg/kg |                                       | 5              |
| Octabromobiphenyl        | mg/kg | With reference to<br>GB/T 26125-2011. | 5              |
| Nonabromobiphenyl        | mg/kg |                                       | 5              |
| Decabromobiphenyl        | mg/kg |                                       | 5              |
| PBDEs                    |       | Determination of PBB                  |                |
| Monobromodiphenyl ether  | mg/kg | and PBDE by GC/MS.                    | 5              |
| Dibromodiphenyl ether    | mg/kg |                                       | 5              |
| Tribromodiphenyl ether   | mg/kg |                                       | 5              |
| Tetrabromodiphenyl ether | mg/kg |                                       | 5              |
| Pentabromodiphenyl ether | mg/kg |                                       | 5              |
| Hexabromodiphenyl ether  | mg/kg |                                       | 5              |
| Heptabromodiphenyl ether | mg/kg |                                       | 5              |
| Octabromodiphenyl ether  | mg/kg | -                                     | 5              |
| Nonabromodiphenyl ether  | mg/kg |                                       | 5              |
| Decabromodiphenyl ether  | mg/kg |                                       | 5              |

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- 1. mg/kg = ppm
- 2. n.d. = not detected or lower than MDL
- 3. MDL = Method detection limit
- 4. "---" = not conducted
- 5. n.a. = not applicable

The XRF result of Br for metal sample is conducted from semi-quantitative method of polymer. If the Br result is shown as n.d., the reading will be less than 100ppm.

- 6. " " = Not Regulated
- 7. (#2):
  - a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 mg/cm2.
    - The coating is considered to contain Cr(VI).
  - b. The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than 0.10 mg/cm2). The coating is considered a non-Cr(VI) based coating.
  - c. The result between 0.10 mg/cm2 and 0.13 mg/cm2 is considered to be inconclusive - unavoidable coating variations may influence the determination.
- 8. Magnetic samples can not be located on test position and there are breakdown risks on XRF equipment. Therefore, this kind of sample will be conducted chemical test directly.
- 9. If the test result by EDXRF analysis is greater than XRF screening threshold, the test sample should be further conducted by chemical test.

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