CTI 华测检测

180000343904

# Test Report



**Report No.** A2220026167101001

**Company Name shown on Report** FOSHAN BLUE ROCKET ELECTRONICS CO.,LTD.

**Address** NO.45 GUXIN ROAD,CHANCHENG DISTRICT,FOSHAN,GUANGDONG,P.R.C.

**The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant**

| | |
|---|---|
| Sample Name | Semiconductor Device |
| Part No. | SOT-523 |
| Sample Received Date | Jan. 19, 2022 |
| Testing Period | Jan. 19, 2022 to Jan. 22, 2022 |

**Test Requested** As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP) in the submitted sample(s).

**Test Method** Please refer to the following page(s).

**Test Result(s)** Please refer to the following page(s).

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**Conclusion**

| Tested Sample | According to standard/directive | Result |
|---|---|---|
| Submitted Sample | RoHS Directive 2011/65/EU with amendment (EU) 2015/863 | PASS |

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PASS means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.

Tested by Vivi Liao

Approved by Hill Zheng

Hill Zheng
Technical Manager

Reviewed by Cathy Huang

Date Jan. 22, 2022

No. R158922001

Centre Testing International Group Co.,Ltd.
CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

# Test Report



**Test Method**

| Test Item(s) | Test Method | Measured Equipment(s) |
|---|---|---|
| Lead (Pb) | IEC 62321-5:2013 | ICP-OES |
| Cadmium (Cd) | IEC 62321-5:2013 | ICP-OES |
| Mercury (Hg) | IEC 62321-4:2013+AMD1:2017 CSV | ICP-OES |
| Hexavalent Chromium (Cr(VI)) | IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013 | UV-Vis/ICP-OES |
| Polybrominated Biphenyls (PBBs) | IEC 62321-6:2015 | GC-MS |
| Polybrominated Diphenyl Ethers (PBDEs) | IEC 62321-6:2015 | GC-MS |
| Phthalates (DBP, BBP, DEHP, DIBP) | IEC 62321-8:2017 | GC-MS |

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**Test Result(s)**

| Tested Item(s) | Result | MDL | Limit |
|---|---|---|---|
| Lead(Pb) | N.D. | 2 mg/kg | 1000 mg/kg |
| Cadmium(Cd) | N.D. | 2 mg/kg | 100 mg/kg |
| Mercury(Hg) | N.D. | 2 mg/kg | 1000 mg/kg |
| Hexavalent Chromium(Cr(VI)) | N.D. | 8 mg/kg | 1000 mg/kg |

| Tested Item(s) | Result | MDL | Limit |
|---|---|---|---|
| **Polybrominated Biphenyls (PBBs)** | | | |
| Monobromobiphenyl | N.D. | 5 mg/kg | 1000 mg/kg |
| Dibromobiphenyl | N.D. | 5 mg/kg | |
| Tribromobiphenyl | N.D. | 5 mg/kg | |
| Tetrabromobiphenyl | N.D. | 5 mg/kg | |
| Pentabromobiphenyl | N.D. | 5 mg/kg | |
| Hexabromobiphenyl | N.D. | 5 mg/kg | |
| Heptabromobiphenyl | N.D. | 5 mg/kg | |
| Octabromobiphenyl | N.D. | 5 mg/kg | |
| Nonabromobiphenyl | N.D. | 5 mg/kg | |
| Decabromobiphenyl | N.D. | 5 mg/kg | |

| Tested Item(s) | Result | MDL | Limit |
|---|---|---|---|
| **Polybrominated Diphenyl Ethers (PBDEs)** | | | |
| Monobromodiphenyl ether | N.D. | 5 mg/kg | 1000 mg/kg |
| Dibromodiphenyl ether | N.D. | 5 mg/kg | |
| Tribromodiphenyl ether | N.D. | 5 mg/kg | |
| Tetrabromodiphenyl ether | N.D. | 5 mg/kg | |
| Pentabromodiphenyl ether | N.D. | 5 mg/kg | |
| Hexabromodiphenyl ether | N.D. | 5 mg/kg | |
| Heptabromodiphenyl ether | N.D. | 5 mg/kg | |
| Octabromodiphenyl ether | N.D. | 5 mg/kg | |
| Nonabromodiphenyl ether | N.D. | 5 mg/kg | |
| Decabromodiphenyl ether | N.D. | 5 mg/kg | |

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**Test Result(s)**

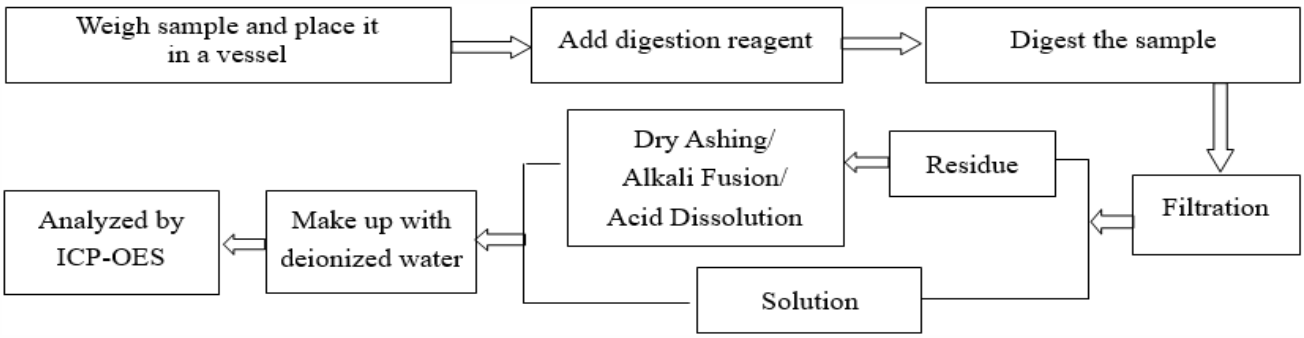
| Tested Item(s) | Result | MDL | Limit |
|---|---|---|---|
| **Phthalates (DBP, BBP, DEHP, DIBP)** | | | |
| Dibutyl phthalate(DBP)<br>CAS#:84-74-2 | N.D. | 50 mg/kg | 1000 mg/kg |
| Butyl benzyl phthalate(BBP)<br>CAS#:85-68-7 | N.D. | 50 mg/kg | 1000 mg/kg |
| Di-(2-ethylhexyl) phthalate(DEHP)<br>CAS#:117-81-7 | N.D. | 50 mg/kg | 1000 mg/kg |
| Diisobutyl phthalate(DIBP)<br>CAS#:84-69-5 | N.D. | 50 mg/kg | 1000 mg/kg |

**Sample/Part Description** Black solid with silvery metal(Tested as a whole)

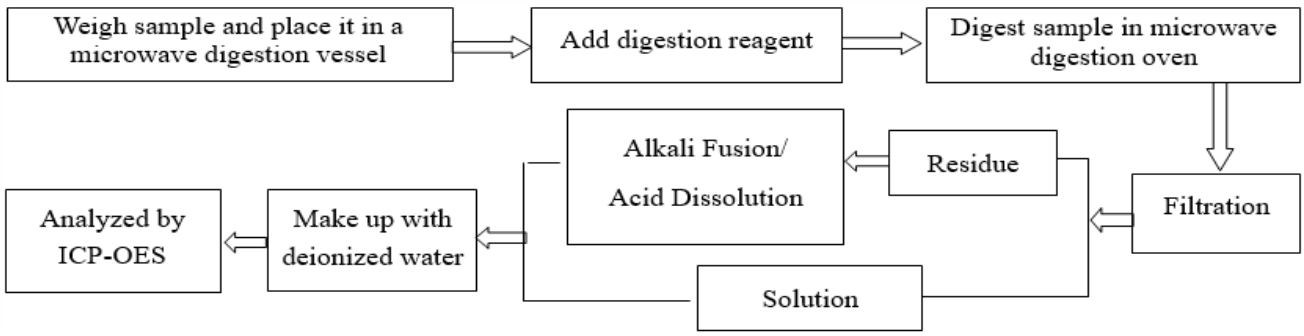
**Remark:** **-The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.**
**-The sample(s) was tested as a whole, because it's impossible to disassemble or separate it by current equipment and technology. The result(s) shown on this report may be different from the content of any homogeneous material.**
-MDL = Method Detection Limit
-N.D. = Not Detected (<MDL )
-mg/kg = ppm = parts per million
-1000 mg/kg = 0.1%

**Test Process**

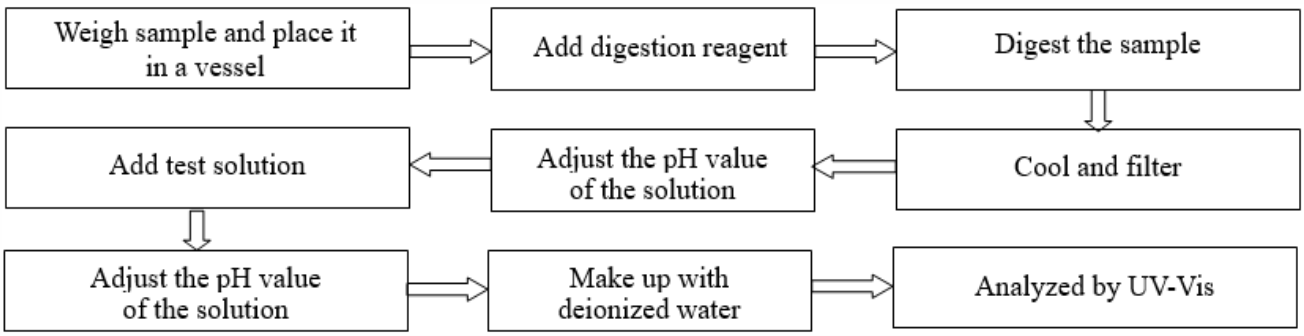
**1. Lead (Pb), Cadmium (Cd), Chromium (Cr)**



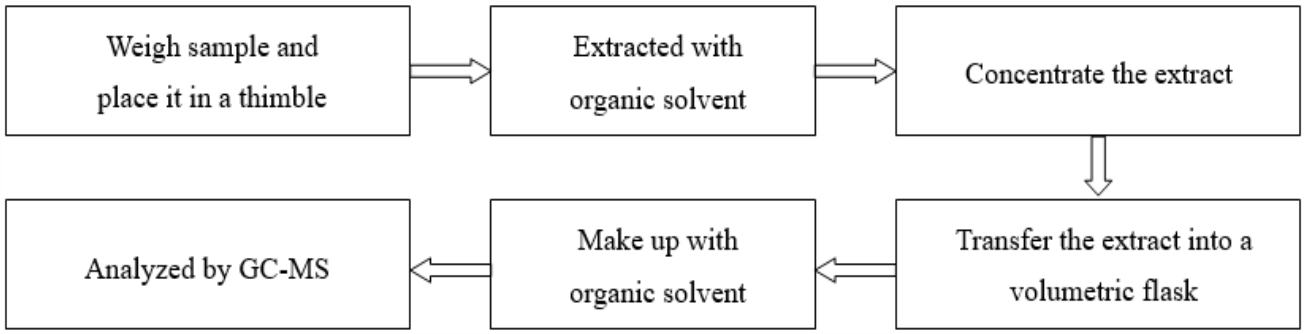

**2. Mercury (Hg)**




**3. Hexavalent Chromium (Cr(VI))**




**4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)**



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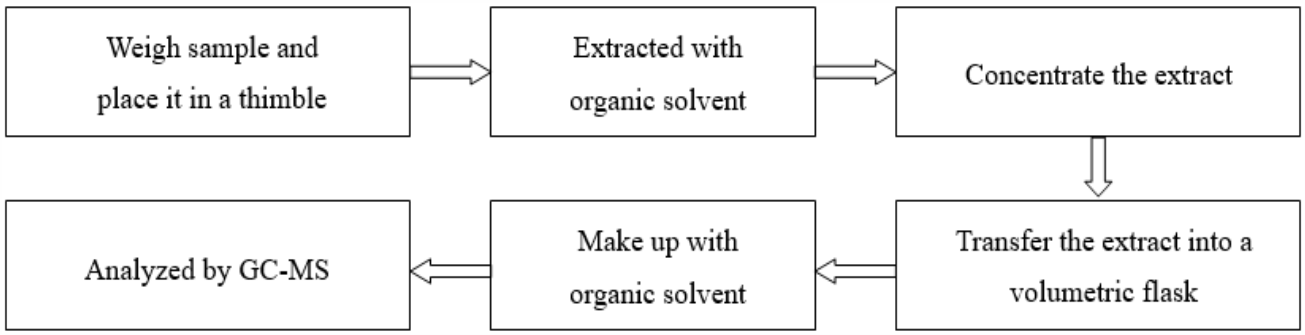
**5. Phthalates (DBP, BBP, DEHP, DIBP)**



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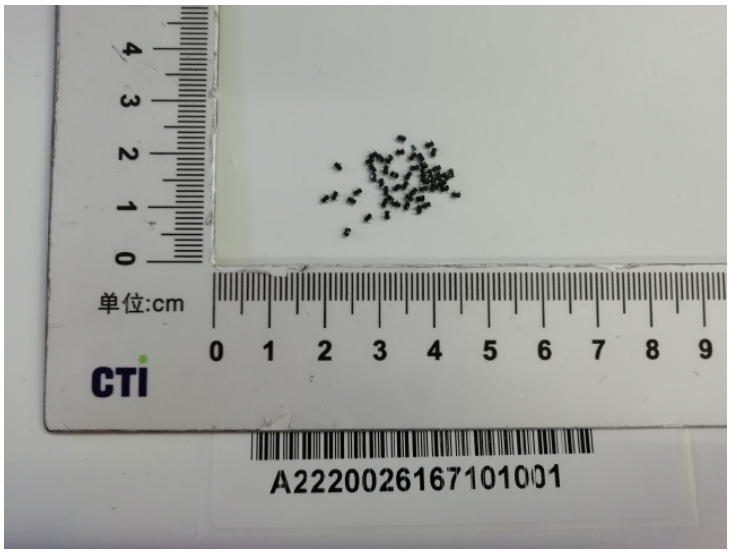
## Photo(s) of the sample(s)




Statement:

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Without written approval of CTI, this report can't be reproduced except in full;
5. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** End of report ***