# Test Report

Report No. A2240065621101002



| | |
|---|---|
| **Company Name shown on Report** | JIAXING JINGKONG ELECTRONIC CO.,LTD |
| **Address** | NO.480 JIANGXIAN ROAD, YUXIN TOWN, JIAXING, ZHEJIANG, 314009,P.R. CHINA |

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

| | |
|---|---|
| Sample Name | QUARTZ MONITOR CRYSTAL--Au |
| Sample Received Date | Feb. 1, 2024 |
| Testing Period | Feb. 1, 2024 to Feb. 5, 2024 |

| | |
|---|---|
| **Test Requested** | 1.As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates, Arsenic(As), Beryllium(Be), Antimony(Sb), Hexabromocyclododecane (HBCDD), Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I), Perfluorooctanoic Acid(PFOA), Perfluorooctane Sulfonates(PFOS) in the submitted sample(s).<br>2.As specified by client, to screen the Antimony trioxide($Sb_2O_3$) in the submitted sample(s). |
| **Test Method/Test Result(s)** | Please refer to the following page(s). |

Approved by Yin Chi

Yin Chi

Lab Authorized Signatory

Date Feb. 5, 2024

No. R219927260

# Test Report



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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.

# Test Report



**Test Method**

| Tested 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 |
| Arsenic(As) | Refer to US EPA 3052:1996 & US EPA 6010D:2018 | ICP-OES |
| Beryllium(Be) | Refer to US EPA 3052:1996 & US EPA 6010D:2018 | ICP-OES |
| Antimony(Sb) | Refer to US EPA 3052:1996 & US EPA 6010D:2018 | ICP-OES |
| Hexabromocyclododecane (HBCDD) | IEC 62321-9:2021 | GC-MS |
| Fluorine (F) | Refer to EN 14582:2016 | IC |
| Chlorine (Cl) | Refer to EN 14582:2016 | IC |
| Bromine (Br) | Refer to EN 14582:2016 | IC |
| Iodine (I) | Refer to EN 14582:2016 | IC |
| Phthalates | IEC 62321-8:2017 | GC-MS |
| Antimony trioxide($Sb_2O_3$) | Refer to US EPA 3052:1996 & US EPA 6010D:2018 | ICP-OES |
| Perfluorooctanoic Acid(PFOA) | Refer to US EPA 3550C:2007 & US EPA 8321B:2007 | LC-MS-MS |
| Perfluorooctane Sulfonates(PFOS) | Refer to US EPA 3550C:2007 & US EPA 8321B:2007 | LC-MS-MS |

# Test Report



**Test Result(s)**

| Tested Item(s) | Result | MDL | Limit |
|---|---|---|---|
| | 002 | | |
| 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 |
|---|---|---|---|
| | 002 | | |
| **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 |
|---|---|---|---|
| | 002 | | |
| **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 | |

# Test Report



| Tested Item(s) | Result | MDL | Limit |
|---|---|---|---|
| | 002 | | |
| **Phthalates (DBP, BBP, DEHP, DIBP)** | | | |
| Diisobutyl phthalate (DIBP) CAS#:84-69-5 | N.D. | 50 mg/kg | 1000 mg/kg |
| Dibutyl phthalate (DBP) CAS#:84-74-2 | N.D. | 50 mg/kg | 1000 mg/kg |
| Butyl benzyl phthalate (BBP) CAS#:85-68-7 | N.D. | 50 mg/kg | 1000 mg/kg |
| Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7 | N.D. | 50 mg/kg | 1000 mg/kg |

| Tested Item(s) | Result | MDL |
|---|---|---|
| | 002 | |
| Arsenic (As) | N.D. | 10 mg/kg |

| Tested Item(s) | Result | MDL |
|---|---|---|
| | 002 | |
| Beryllium (Be) | N.D. | 10 mg/kg |

| Tested Item(s) | Result | MDL |
|---|---|---|
| | 002 | |
| Antimony (Sb) | N.D. | 5 mg/kg |

| Tested Item(s) | Result | MDL |
|---|---|---|
| | 002 | |
| Hexabromocyclododecane (HBCDD) | N.D. | 20 mg/kg |

| Tested Item(s) | Result | MDL |
|---|---|---|
| | 002 | |
| Fluorine (F) | N.D. | 10 mg/kg |
| Chlorine (Cl) | N.D. | 10 mg/kg |
| Bromine (Br) | N.D. | 10 mg/kg |
| Iodine (I) | N.D. | 10 mg/kg |

# Test Report



| Tested Item(s) | Result | MDL |
|---|---|---|
| | 002 | |
| **Phthalates** | | |
| Di-n-octyl phthalate (DNOP) CAS#:117-84-0 | N.D. | 50 mg/kg |
| Di-isononyl phthalate (DINP) CAS#:28553-12-0,68515-48-0 | N.D. | 50 mg/kg |
| Di-iso-decyl phthalate (DIDP) CAS#:26761-40-0,68515-49-1 | N.D. | 50 mg/kg |
| Dimethyl phthalate (DMP) CAS#:131-11-3 | N.D. | 50 mg/kg |
| Dipentyl phthalate (DPP/DPENP) CAS#:131-18-0 | N.D. | 50 mg/kg |
| Diethyl phthalate (DEP) CAS#:84-66-2 | N.D. | 50 mg/kg |
| Diisopentylphthalate (DIPP) CAS#:605-50-5 | N.D. | 50 mg/kg |
| Bis(2-methoxyethyl) phthalate (DMEP) CAS#:117-82-8 | N.D. | 50 mg/kg |
| Diundecyl phthalates (DUP) CAS#:3648-20-2 | N.D. | 50 mg/kg |
| Dicyclohexyl phthalate (DCHP) CAS#:84-61-7 | N.D. | 50 mg/kg |
| Di-n-hexyl phthalate (DNHP/DHEXP) CAS#:84-75-3 | N.D. | 50 mg/kg |
| N-Pentyl-isopentyl phthalate (NIPP) CAS#:776297-69-9 | N.D. | 50 mg/kg |
| ①1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (NHIHP) CAS#:68515-50-4 | N.D. | 50 mg/kg |
| ①1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate CAS#:68515-51-5; 68648-93-1 | N.D. | 50 mg/kg |

# Test Report



| Tested Item(s) | Result | MDL |
|---|---|---|
| | 002 | |
| **Phthalates** | | |
| ①1,2-Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters (DHNUP) CAS#:68515-42-4 | N.D. | 50 mg/kg |
| ①1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) CAS#:71888-89-6 | N.D. | 50 mg/kg |
| ①1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (BADP) CAS#:84777-06-0 | N.D. | 50 mg/kg |

| Tested Item(s) | Result | MDL |
|---|---|---|
| | 002 | |
| Antimony trioxide ($Sb_2O_3$)* | N.D. | 5 mg/kg |

| Tested Item(s) | Result | MDL |
|---|---|---|
| | 002 | |
| Perfluorooctanoic Acid (PFOA) | N.D. | 0.01 mg/kg |

| Tested Item(s) | Result | MDL |
|---|---|---|
| | 002 | |
| Perfluorooctane Sulfonates (PFOS) | N.D. | 5 mg/kg |

**Sample/Part Description**

| No. | CTI Sample ID | Description |
|---|---|---|
| 1 | 002 | Crystal(Tested as a whole) |

**Remark:** **The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury, Arsenic, Beryllium, Antimony.**
**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%
-①: In view of the substances are established as UVCB substances(substances of unknown or variable composition, complex reaction products or biological materials) consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances.
-*=The test result of the item is converted from the test result of certain element.

# Test Report



**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)**

**5. Phthalates**

**6. Hexabromocyclododecane (HBCDD)**

**7. Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I)**

**8. Arsenic(As), Beryllium(Be), Antimony(Sb), Antimony trioxide($Sb_2O_3$)**

**9. Perfluorooctanoic Acid(PFOA), Perfluorooctane Sulfonates(PFOS)**

# Test Report



## 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. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019 / CNAS-GL015:2022;
5. Without written approval of CTI, this report can't be reproduced except in full;
6. 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 ***

# Appendix

**Client Reference Photo (Non-tested sample)**

**Statement:**

1. The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.
2. The Appendix Information is/are the supplement(s) for the Report A2240065621101002.