

Report No. A2180031921101001

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Applicant

SHANGHAI JINPEI ELECTRONICS CO., LTD.

Address

3A, BUILDING A, NO.168 CHENGNAN ROAD, PUDONG DISTRICT, SHANGHAI,

CHINA. 201300

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

of the client

Sample Name multilayer ceramic chip capacitor

Part No. MLCC

Sample Received Date Sep. 3, 2024

Testing Period Sep. 3, 2024 to Sep. 9, 2024

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).

y <u>LiuJie</u> Su Hongwe

> Su Hongwei Senior Laboratory Manager

Centre Testing International Pinbiao(Shanghai) Co., Ltd.

Reviewed by Jong Min

Sep. 9, 2024 Date

No. R131271629

No.1996, Xinjinqiao Road, Pudong New District, Shanghai, China

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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	ICP-OES
He xavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OE
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	ed Diphenyl Ethers (PBDEs) IEC 62321-6:2015	
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
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Test Result(s)

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Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		(20)
Monobrom obiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribrom obiphenyl	N.D.	5 mg/kg
Tetrabrom obiphenyl	N.D.	5 mg/kg
Pentabrom obiphenyl	N.D.	5 mg/kg
Hex abrom obiphenyl	N.D.	5 mg/kg
Heptabrom obiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabrom obiphenyl	N.D.	5 mg/kg
Decabrom obiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Dip henyl Ethers (PBD	Es)	
Monobrom odiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabrom odiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabrom odiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabrom odiphenyl 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
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	N.D.	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg

Tested Sample/Part Description

Electronic components (Tested as a whole)

Remark:

The samp le(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

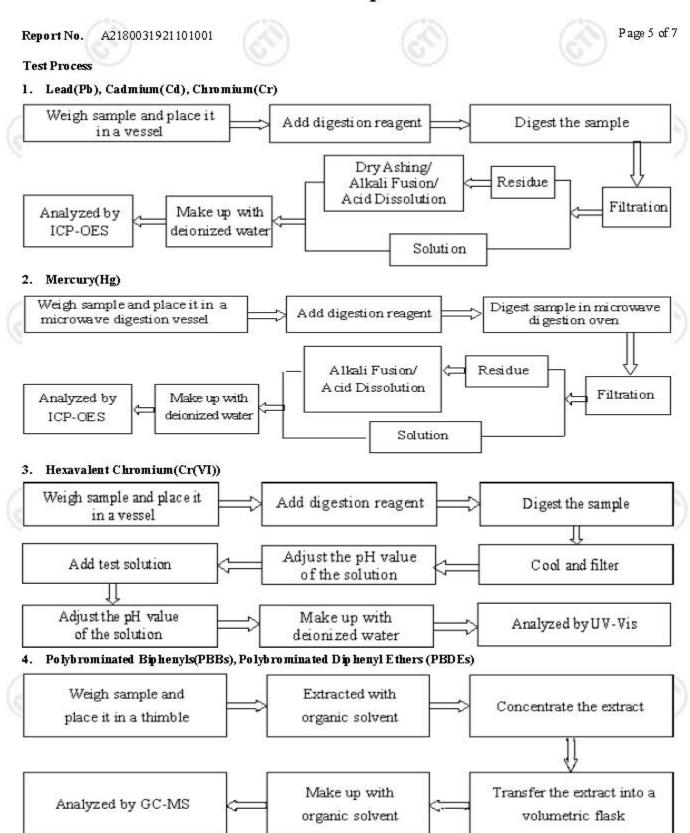
-N.D. = Not Detected (<MDL)

-m g/kg = ppm = parts per million

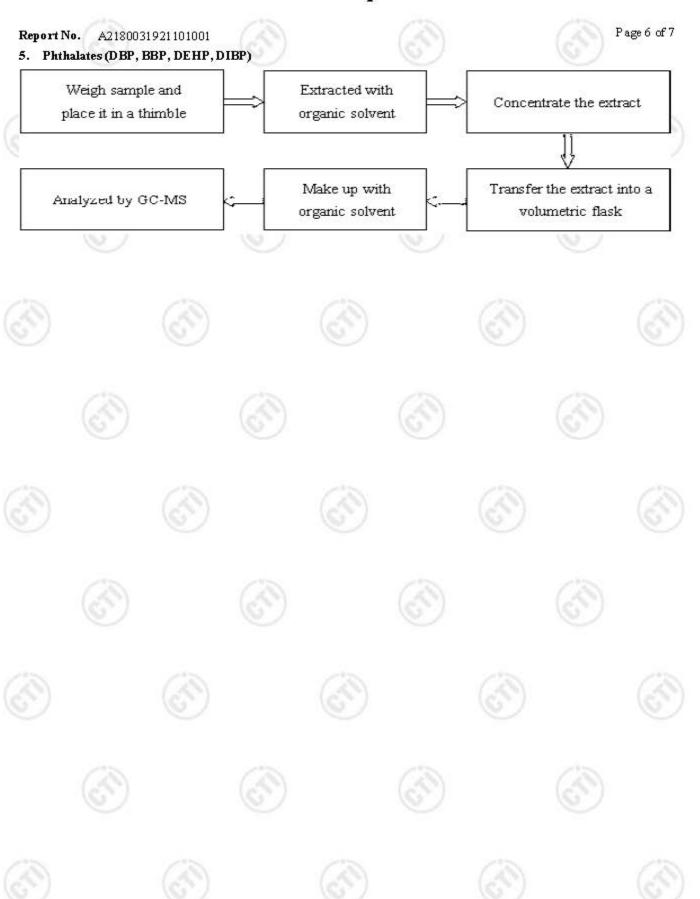


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Photo(s) of the sample(s)



*** End of report ***

Statement:

- 1. This report is considered invalidated without approval signature, special seal and the seal on the perforation;
- The sample(s) and sample information was/were provided by the client who should be responsible for the autenticity 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 genrated), the Chinese version shall prevail.



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