

Page 1 of 7

Report No. A2230199541101003

Company Name
shown on ReportSHENZHEN JDB TECHNOLOGY CO., LTD.Address301, BUILDING 32, LONGWANGMIAO INDUSTRIAL ZONE, BAISHIXIA COMMUNITY,
FUYONG STREET, BAO'AN DISTRICT, SHENZHEN CITY

The following sample(s) and	nd sample information was/were submitted and identified by/on the behalf of the
applicant	
Sample Name	HASL lead free PCB
Material	pcb FR-4
Sample Received Date	May 5, 2023
Testing Period	May 5, 2023 to May 10, 2023
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).
**************************************	**********

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

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.



flitt They Hill Zheng

Date

May 10, 2023

No. R179751952

检验检测专用章 Technical Manager No. Inspectificational Group Co.,Ltd. CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A2230199541101003

Page 2 of 7

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





Report No. A2230199541101003

	Result			
Tested Item(s)	003		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	
	Result	MDI	T	
Tested Item(s)	003	MDL	Limit	
Polybrominated Biphenyls (PBBs)				
Monobromobiphenyl	N.D.	5 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	1000 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		
	Result	MDI	Limit	
Tested Item(s)	003	MDL	Limit	
Polybrominated Diphenyl Ethers (PBDEs)				
Monobromodiphenyl ether	N.D.	5 mg/kg		
Dibromodiphenyl ether	N.D.	5 mg/kg		
Tribromodiphenyl ether	N.D.	5 mg/kg	5 mg/kg 5 mg/kg 5 mg/kg 1000 mg/kg 5 mg/kg 5 mg/kg 5 mg/kg 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		

Page 3 of 7



Report No. A2230199541101003

Test Result(s)			
Tested Item(s)	Result 003	MDL	Limit
Phthalates (DBP, BBP, DEHP, DIBP)			
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
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg	1000 mg/kg

Sample/Part Description

No.	CTI Sample ID	Description
1	003	PCB (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

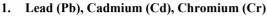
-1000 mg/kg = 0.1%

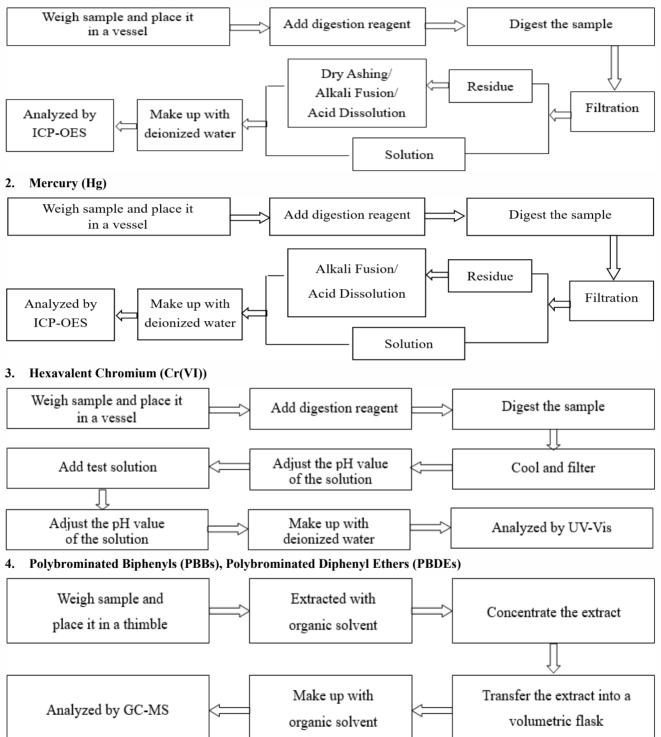
Page 4 of 7



Report No. A2230199541101003

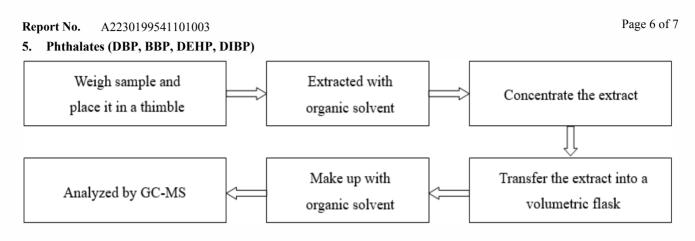
Test Process





Page 5 of 7

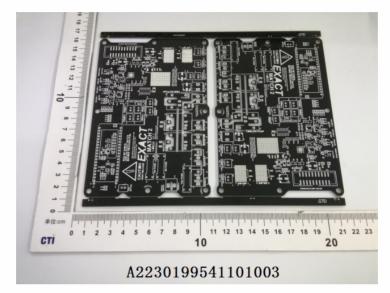






Report No. A2230199541101003

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 ***

Page 7 of 7