



Test Report

No.: S241120064002-1A

Date: Nov 22, 2024

Page 1 of 8

Customer: SHENZHEN JLC TECHNOLOGY GROUP CO.,LTD.

Customer Address: 27TH FLOOR, OLYMPIC BUILDING, SHANGBAO ROAD, FUTIAN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE

Sample Name: PCB  
Sample Description: ENIG (Electroless Nickel/ Immersion Gold)  
Sample Quantity: 1  
Manufacturer: SHENZHEN JLC TECHNOLOGY GROUP CO.,LTD.

The above samples and information are provided by the customer

Sample Received Date: Nov 20, 2024  
Test Period: Nov 20, 2024 to Nov 21, 2024  
Test Requirements: Test according to customer requirement  
Test Method: Please refer to next page(s)  
Test Result: Please refer to next page(s)  
Test Conclusion: **PASS**

**Result Summary:**

Test Requested	Conclusion
1. RoHS Directive 2011/65/EU Annex II amending Directive (EU)2015/863	
1) Lead, Mercury, Cadmium, Hexavalent Chromium Content	<b>PASS</b>
2) PBBs and PBDEs Content	<b>PASS</b>
3) Di-(2-ethylhexyl) phthalate (DEHP), Benzylbutyl phthalate (BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP) Content	<b>PASS</b>

WRITTEN BY

Zoey Zhang

REVIEWED BY

Kira Fu

**Soar Testing Certification  
(GuangDong) Co., Ltd.**

APPROVED BY

检验检测专用章  
Eric Wu Frank Wu  
Approved Signatory

**Note:** This Test report shall be invalid if it is not stamped with the special seal for testing. Only responsible for the tested samples, invalid if rewritten, added and deleted. This test report cannot be reproduced, except in full, without prior written permission of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. Any demurral to the content of test report, please propose in 15 days.

**Lab name:** Soar Testing Certification (GuangDong) Co., Ltd.  
**Post Code:** 523945 **Tel:** (86-769) 38937518

**Address:** Room 1093, No.12, East of Houjie Avenue, Houjie, Dongguan, Guangdong, China  
**E-mail:** service@soar-cert.com **Website:** http://www.soartestlab.com

**Test Result(s):****Description of test sample:**

Sample No.	Item / Component Description(s)	Location(s)	Style(s)/Model(s)
1.	PCB board	Refer to photo	/

Note: "/"= Customer does not provide.

**1. RoHS Directive 2011/65/EU Annex II amending Directive (EU)2015/863****1) Lead, Mercury, Cadmium, Hexavalent Chromium Content**

Test method: Refer to EN 62321-4:2014+A1:2017, EN 62321-5:2014 and EN 62321-7-2:2017, analysis was performed by ICP-OES and UV-Vis.

Test Item	Limit	Unit	MDL	Result
				No.1
Lead (Pb)	1000	mg/kg	2	N.D.
Mercury (Hg)	1000	mg/kg	2	N.D.
Cadmium(Cd)	100	mg/kg	2	N.D.
Hexavalent Chromium (CrVI)	1000	mg/kg	2	N.D.
Conclusion				PASS

Note:

1. mg/kg = milligram per kilogram = ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit

**Note:** This Test report shall be invalid if it is not stamped with the special seal for testing. Only responsible for the tested samples, invalid if rewritten, added and deleted. This test report cannot be reproduced, except in full, without prior written permission of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. Any demurral to the content of test report, please propose in 15 days.

**Lab name:** Soar Testing Certification (GuangDong) Co., Ltd.  
**Post Code:** 523945 **Tel:** (86-769) 38937518

**Address:** Room 1093, No.12, East of Houjie Avenue, Houjie, Dongguan, Guangdong, China  
**E-mail:** service@soar-cert.com **Website:** http://www.soartestlab.com



**2) PBBs and PBDEs Content**

Test method: Refer to EN 62321-6:2015 , analysis was performed by GC-MS.

Test Item	Limit	Unit	MDL	Result
				No.1
Sum of Polybrominated biphenyls(PBBs)	1000	mg/kg	-	N.D.
Sum of Polybrominated diphenyl ethers(PBDEs) .	1000	mg/kg	-	N.D.
Monobromobiphenyl	-	mg/kg	5	N.D.
Dibromobiphenyl	-	mg/kg	5	N.D.
Tribromobiphenyl	-	mg/kg	5	N.D.
Tetrabromobiphenyl	-	mg/kg	5	N.D.
Pentabromobiphenyl	-	mg/kg	5	N.D.
Hexabromobiphenyl	-	mg/kg	5	N.D.
Heptabromobiphenyl	-	mg/kg	5	N.D.
Octabromobiphenyl	-	mg/kg	5	N.D.
Nonabromobiphenyl	-	mg/kg	5	N.D.
Decabromobiphenyl	-	mg/kg	5	N.D.
Monobromodiphenyl ether	-	mg/kg	5	N.D.
Dibromodiphenyl ether	-	mg/kg	5	N.D.
Tribromodiphenyl ether	-	mg/kg	5	N.D.
Tetrabromodiphenyl ether	-	mg/kg	5	N.D.
Pentabromodiphenyl ether	-	mg/kg	5	N.D.
Hexabromodiphenyl ether	-	mg/kg	5	N.D.
Heptabromodiphenyl ether	-	mg/kg	5	N.D.
Octabromodiphenyl ether	-	mg/kg	5	N.D.
Nonabromodiphenyl ether	-	mg/kg	5	N.D.
Decabromodiphenyl ether	-	mg/kg	5	N.D.
Conclusion				PASS

**Note:**

1. mg/kg = milligram per kilogram = ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit
4. "-" = Not Regulated

**Note:** This Test report shall be invalid if it is not stamped with the special seal for testing. Only responsible for the tested samples, invalid if rewritten, added and deleted. This test report cannot be reproduced, except in full, without prior written permission of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. Any demurral to the content of test report, please propose in 15 days.

**Lab name:** Soar Testing Certification (GuangDong) Co., Ltd.  
**Post Code:** 523945 **Tel:** (86-769) 38937518

**Address:** Room 1093, No.12, East of Houjie Avenue, Houjie, Dongguan, Guangdong, China  
**E-mail:** service@soar-cert.com **Website:** <http://www.soartestlab.com>

**3) Di-(2-ethylhexyl) phthalate(DEHP), Benzylbutyl phthalate(BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate(DIBP) Content**

Test method: Refer to EN 62321-8:2017, analysis was performed by GC-MS.

Test Item	Limit	Unit	MDL	Result
				No.1
Dibutyl phthalate (DBP)	1000	mg/kg	50	N.D.
Benzylbutyl phthalate (BBP)	1000	mg/kg	50	N.D.
Di-(2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	N.D.
Diisobutyl phthalate(DIBP)	1000	mg/kg	50	N.D.
Conclusion				PASS

**Note:**

1. mg/kg = milligram per kilogram = ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit

**Remark:**

1. The report S241120064002-1 was repealed and replaced by the report S241120064002-1A.
2. As specified by applicant, to test content in the selected materials of the submitted samples. The test results are only responsible for the submitted sample. The test report is only for customer research, teaching, internal quality control, product development and other purposes, for reference only.

**Note:** This Test report shall be invalid if it is not stamped with the special seal for testing. Only responsible for the tested samples, invalid if rewritten, added and deleted. This test report cannot be reproduced, except in full, without prior written permission of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. Any demurral to the content of test report, please propose in 15 days.

**Lab name:** Soar Testing Certification (GuangDong) Co., Ltd.  
**Post Code:** 523945

**Tel:** (86-769) 38937518

**Address:** Room 1093, No.12, East of Houjie Avenue, Houjie, Dongguan, Guangdong, China  
**E-mail:** service@soar-cert.com

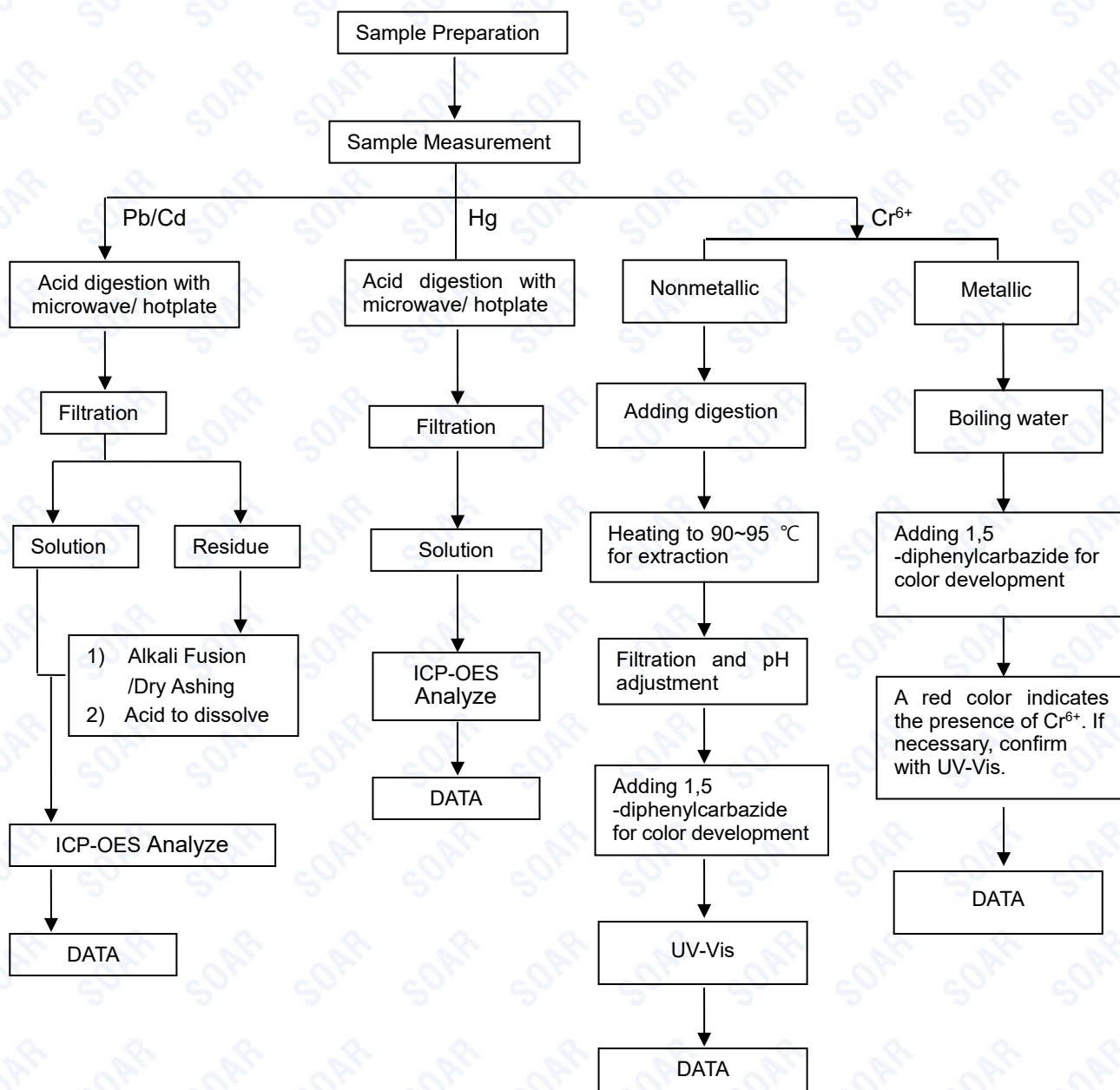
**Website:** <http://www.soartestlab.com>



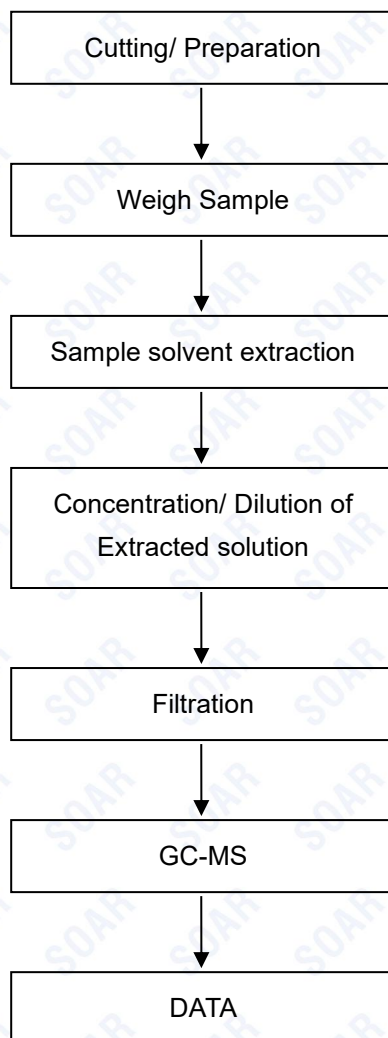
### Pb/Cd/Hg/Cr<sup>6+</sup> Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart.

(Cr<sup>6+</sup> test method excluded)



**Note:** This Test report shall be invalid if it is not stamped with the special seal for testing. Only responsible for the tested samples, invalid if rewritten, added and deleted. This test report cannot be reproduced, except in full, without prior written permission of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. Any demurral to the content of test report, please propose in 15 days.

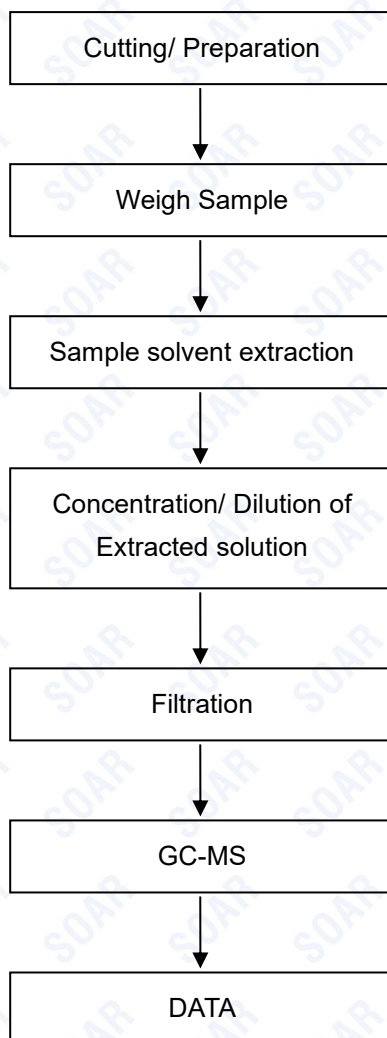
**PBBs/PBDEs Testing Flow Chart**

**Note:** This Test report shall be invalid if it is not stamped with the special seal for testing. Only responsible for the tested samples, invalid if rewritten, added and deleted. This test report cannot be reproduced, except in full, without prior written permission of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. Any demurral to the content of test report, please propose in 15 days.

**Lab name:** Soar Testing Certification (GuangDong) Co., Ltd.  
**Post Code:** 523945

**Tel:** (86-769) 38937518

**Address:** Room 1093, No.12, East of Houjie Avenue, Houjie, Dongguan, Guangdong, China  
**E-mail:** [service@soar-cert.com](mailto:service@soar-cert.com)  
**Website:** <http://www.soartestlab.com>

**Phthalates Testing Flow Chart**

**Note:** This Test report shall be invalid if it is not stamped with the special seal for testing. Only responsible for the tested samples, invalid if rewritten, added and deleted. This test report cannot be reproduced, except in full, without prior written permission of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. Any demurral to the content of test report, please propose in 15 days.

**Lab name:** Soar Testing Certification (GuangDong) Co., Ltd.  
**Post Code:** 523945

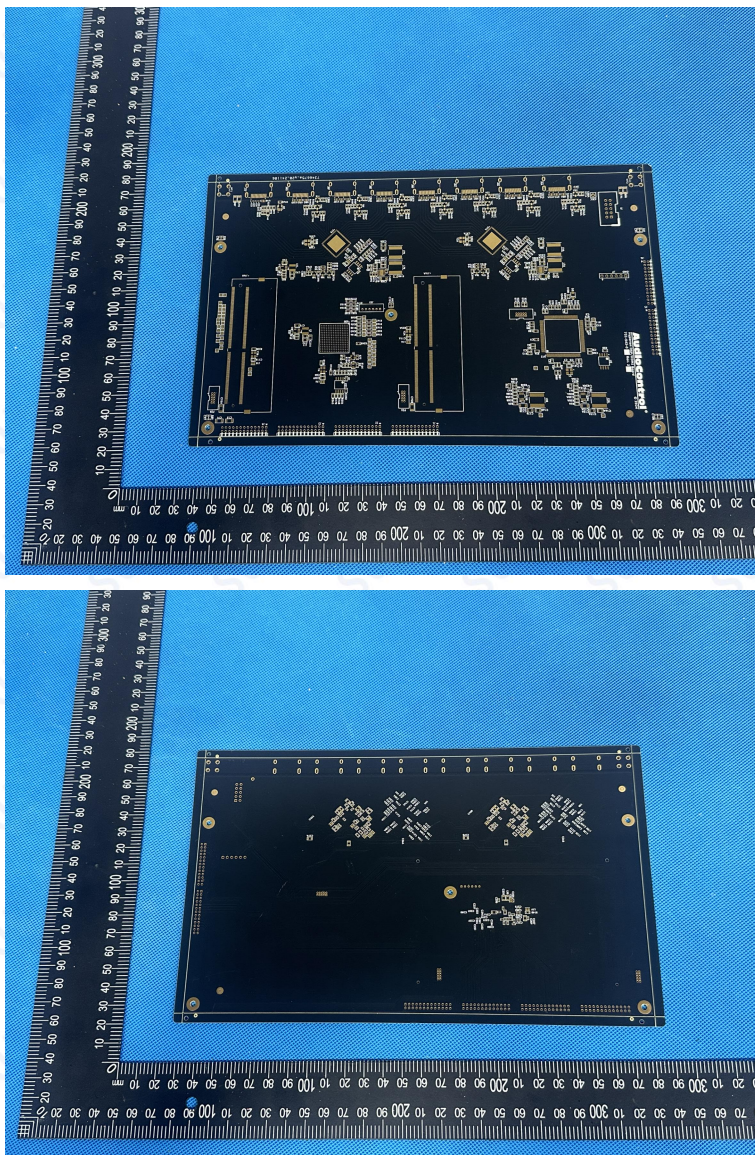
**Tel:** (86-769) 38937518

**Address:** Room 1093, No.12, East of Houjie Avenue, Houjie, Dongguan, Guangdong, China  
**E-mail:** [service@soar-cert.com](mailto:service@soar-cert.com)

**Website:** <http://www.soartestlab.com>



## Photo of the Sample:



The photo is for use with SOAR original report only.

\*\*\* End of Report \*\*\*

**Note:** This Test report shall be invalid if it is not stamped with the special seal for testing. Only responsible for the tested samples, invalid if rewritten, added and deleted. This test report cannot be reproduced, except in full, without prior written permission of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. Any demurral to the content of test report, please propose in 15 days.

**Lab name:** Soar Testing Certification (GuangDong) Co., Ltd.  
**Post Code:** 523945

**Tel:** (86-769) 38937518

**Address:** Room 1093, No.12, East of Houjie Avenue, Houjie, Dongguan, Guangdong, China  
**E-mail:** service@soar-cert.com

**Website:** <http://www.soartestlab.com>