







Report No. A221007626310119 Page 1 of 8

Company Name DONG GUAN BRIGHT LED ELECTRONICS LTD

shown on Report

Address NO.8,GAO LONG EAST RD ,GAOBU TOWN,DONG GUAN CTY,GUANG DONG

PROVINCE, CHINA 523283

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

the applicant

Sample No.	Final Product Name	Sample Name(s)
001	SMD	Axial 支架
002		Axial 樹脂

Sample Received Date Mar. 12, 2021

Testing Period Mar. 12, 2021 to Mar. 31, 2021

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

\*

#### Conclusion

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

\*

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

Kid Zhang

Hill Zheng

Reviewed by

Mar. 31, 2021

Hill Zheng

Technical Manager

No. R450149963

he telling in rnational Group Co.,Ltd.

Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A221007626310119 Page 2 of 8

Sample No.	Reference Report NoSample No.
002	A221007626310115-001

#### Remark:

The samples with the reference information in the table above are non-tested in this report. Test results and the photos of the "Sample No." column reference to "Reference Report Number - Sample No." column.



Report No. A221007626310119 Page 3 of 8

#### **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	
	IEC 62321-7-1:2015	UV-Vis	
Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 and/or determination of	UV-Vis/ICP-OES	
	Total Chromium by IEC 62321-5:2013	UV-VIS/ICP-UES	
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. A221007626310119 Page 4 of 8

#### Test Result(s)

Tested Item(s)	Result		MDL	Limit
rested tem(s)	001	002	WIDL	Limit
Lead (Pb)	N.D.	N.D.	2 mg/kg	1000 mg/kg
Cadmium (Cd)	N.D.	N.D.	2 mg/kg	100 mg/kg
Mercury (Hg)	N.D.	N.D.	2 mg/kg	1000 mg/kg
		N.D.	8 mg/kg	1000 mg/kg
Hexavalent Chromium (Cr(VI))	N.D. <sup>▼</sup>	N.D. ¥	0.10 μg/cm <sup>2</sup>	1000 mg/kg
			(LOQ)	

Tested Item(s)	Result	MDL	Limit		
resteu rtem(s)	002	WIDL	LIIIII		
Polybrominated Biphenyls (PBBs	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 //		
Hexabromobiphenyl	N.D.	5 mg/kg	1000 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			

Tootad Itam(s)	Result	MDL	I imit
Tested Item(s)	002	MIDL	Limit
Polybrominated Diphenyl Ethers (PBI	DEs)	·	
Monobromodiphenyl ether	N.D.	5 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	1000 /1
Hexabromodiphenyl ether	N.D.	5 mg/kg	1000 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	



Report No. A221007626310119

Page 5 of 8

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

#### Sample/Part Description

001 Metal with silvery plating

002 Transparent solid

#### Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

- -MDL = Method Detection Limit
- -N.D. = Not Detected (<MDL or LOQ)
- -mg/kg = ppm = parts per million
- -1000 mg/kg = 0.1%
- -LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 μg/cm<sup>2</sup>
- -▼The sample is negative for Cr(VI) The Cr(VI) concentration is below 0.10 μg/cm<sup>2</sup>. The coating is considered a non-Cr(VI) based coating.

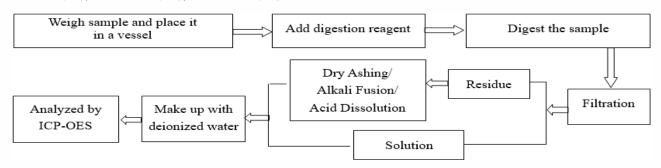


Report No. A221007626310119

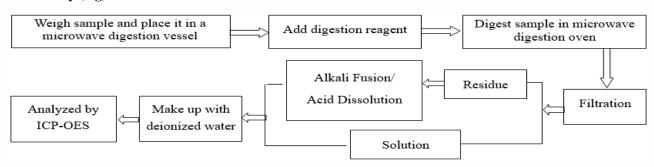
Page 6 of 8

#### **Test Process**

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

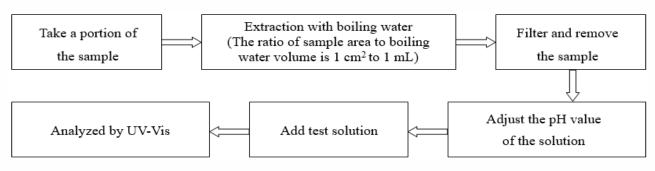


#### 2. Mercury (Hg)

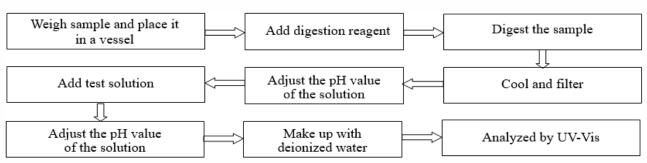


#### 3. Hexavalent Chromium (Cr(VI))

#### (1) IEC 62321-7-1:2015



#### (2) IEC 62321-7-2:2017





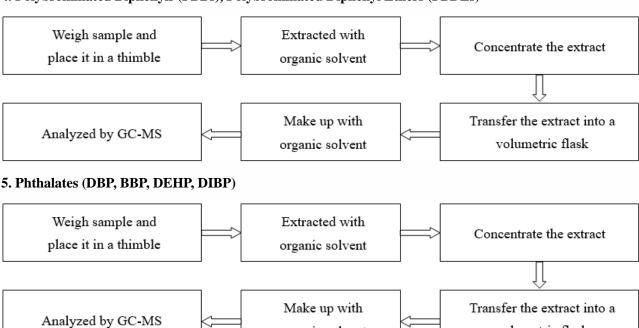


Report No. A221007626310119

Page 7 of 8

volumetric flask

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

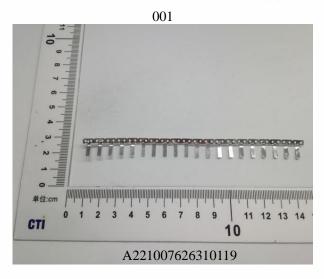


organic solvent



Report No. A221007626310119 Page 8 of 8

### 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.

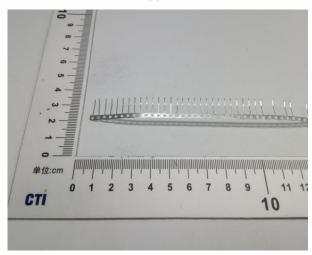
\*\*\* End of Report \*\*\*



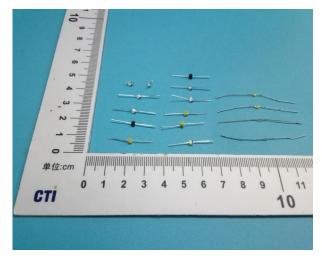
### **Appendix**

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

001



Final Product



#### **Statement:**

The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.