







Report No. A221007626310115 Page 1 of 7

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 -	Chip 樹脂
002		Chip PCB

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	
	amendment (EU) 2015/863	1A33	

\*

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 de ling International Group Co., Ltd.

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



Report No. A221007626310115 Page 2 of 7

#### **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	UV-Vis/ICP-OES	
Hexavaient Chronnum (Cr(V1))	Total Chromium by IEC 62321-5:2013	UV-VIS/ICF-OES	
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS	
Polybrominated Diphenyl Ethers	IEC 62321-6:2015	GC-MS	
(PBDEs)	IEC 02321-0:2013		
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS	

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Report No. A221007626310115 Page 3 of 7

#### Test Result(s)

Tested Item(s)	Result		MDL	Limit
resteu item(s)	001	002	NIDL	
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
Hexavalent Chromium (Cr(VI))	N.D.	N.D.	8 mg/kg	1000 mg/kg

Tested Item(s)	Result		MDL	Limit		
rested item(s)	001	002	NIDL	Limit		
Polybrominated Biphenyls (PBBs	Polybrominated Biphenyls (PBBs)					
Monobromobiphenyl	N.D.	N.D.	5 mg/kg			
Dibromobiphenyl	N.D.	N.D.	5 mg/kg			
Tribromobiphenyl	N.D.	N.D.	5 mg/kg			
Tetrabromobiphenyl	N.D.	N.D.	5 mg/kg			
Pentabromobiphenyl	N.D.	N.D.	5 mg/kg	1000 //		
Hexabromobiphenyl	N.D.	N.D.	5 mg/kg	1000 mg/kg		
Heptabromobiphenyl	N.D.	N.D.	5 mg/kg			
Octabromobiphenyl	N.D.	N.D.	5 mg/kg			
Nonabromobiphenyl	N.D.	N.D.	5 mg/kg			
Decabromobiphenyl	N.D.	N.D.	5 mg/kg	]		

Tested Item(s)	Result		MDL	T ::4
resteu rtem(s)	001	002	WIDL	Limit
<b>Polybrominated Diphenyl Ethe</b>	rs (PBDEs)			
Monobromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Dibromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Tribromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Tetrabromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Pentabromodiphenyl ether	N.D.	N.D.	5 mg/kg	1000 m a/lra
Hexabromodiphenyl ether	N.D.	N.D.	5 mg/kg	1000 mg/kg
Heptabromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Octabromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Nonabromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Decabromodiphenyl ether	N.D.	N.D.	5 mg/kg	

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Report No. A221007626310115 Page 4 of 7

Tested Item(s)	Result		MDL	Limit		
rested item(s)	001	002	WIDL	1/111111		
Phthalates (DBP, BBP, DEHP, DI	Phthalates (DBP, BBP, DEHP, DIBP)					
Dibutyl phthalate (DBP)	N.D.	N.D.	50 mg/kg	1000 mg/kg		
CAS#:84-74-2	N.D.	N.D.	50 mg/kg	1000 mg/kg		
Butyl benzyl phthalate (BBP)	N.D.	N.D.	50 m a/ls a	1000 m a/lva		
CAS#:85-68-7	N.D.	N.D.	50 mg/kg	1000 mg/kg		
Di-(2-ethylhexyl) phthalate	N.D.	N.D.	50 m a/ls a	1000 m a/lva		
(DEHP) CAS#:117-81-7	N.D.	N.D.	50 mg/kg	1000 mg/kg		
Diisobutyl phthalate (DIBP)	ND	ND	50 ma/lsa	1000 m a/lva		
CAS#:84-69-5	N.D.	N.D.	50 mg/kg	1000 mg/kg		

#### Sample/Part Description

001 Transparent solid

002 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%



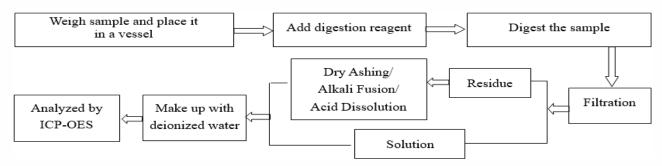


Report No. A221007626310115

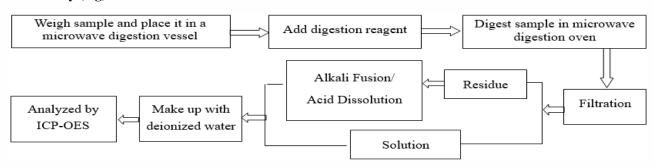
Page 5 of 7

#### **Test Process**

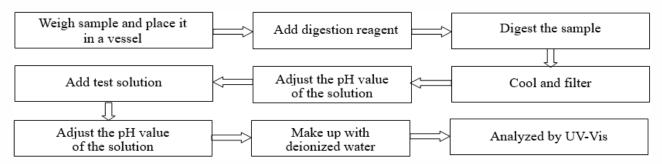
#### 1. Lead (Pb), Cadmium (Cd), Chromium(Cr)



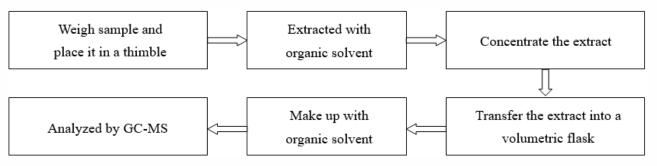
#### 2. Mercury (Hg)



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



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



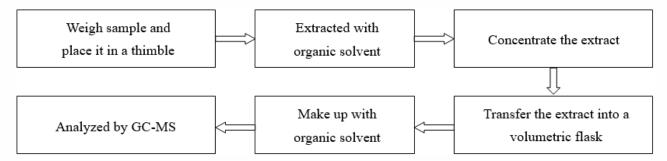




Report No. A221007626310115

Page 6 of 7

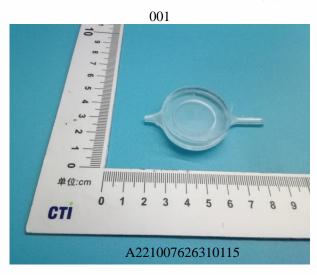
#### 5. Phthalates (DBP, BBP, DEHP, DIBP)

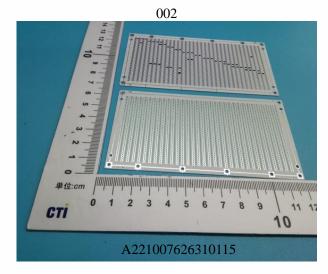




Report No. A221007626310115 Page 7 of 7

### 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 \*\*\*

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### **Appendix**

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



#### **Statement:**

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