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**Report No.** A2190023094101003R2

Applicant SHENZHEN RUNLITE TECHNOLOGY CO.,LTD

Address BUILDING A15, TANTOU THE 4TH INDUSTRIAL ESTATE, SONGGANG TOWN, BAOAN DISTRICT, SHENZHEN, CHINA

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

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Sample Name	SMD PPA LED
Part No.	2835
Client Reference Information Sample Received Date	2016、3528、3014、4014、5050、5630、5730、2110、3020、4010、 side glow 3014 Feb. 13, 2019
Testing Period	Feb. 13, 2019 to Feb. 19, 2019
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	Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP) in the submitted sample(s). Please refer to the following page(s).
Test Method Test Result(s)	

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Grit Qin

Hill Zheng

Reviewed by

Cathy Huang

Date

Mar. 15, 2019

No. R158921854

Technical Manager 检测传用革ng International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. 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+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





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Test Result(s)		
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)		
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
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
Tested Item(s)	Result	MDL
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
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

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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 SMD LED(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

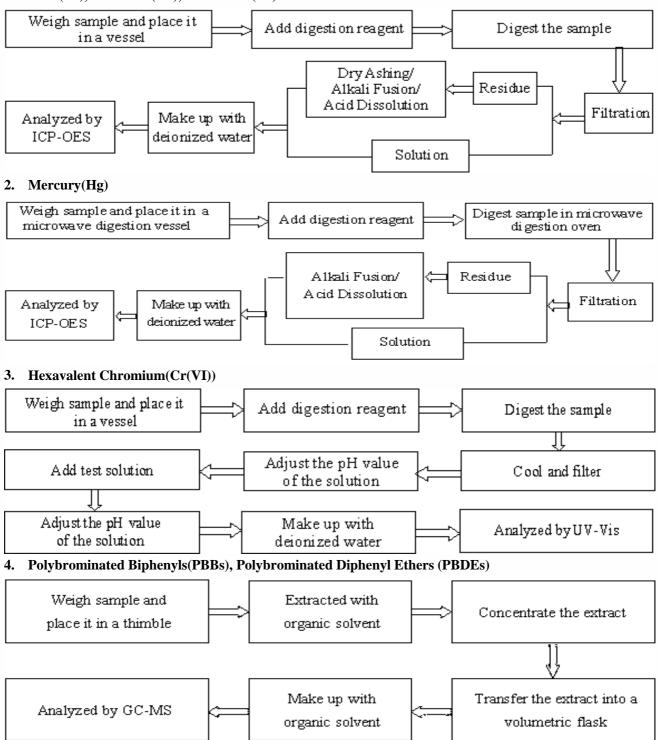
Note: This testing report revised "Client Reference Information" based on the original report of No. A2190023094101003R1 This testing report displaces the riginal one which was invalid since the date of this testing report released.



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**Test Process** 

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



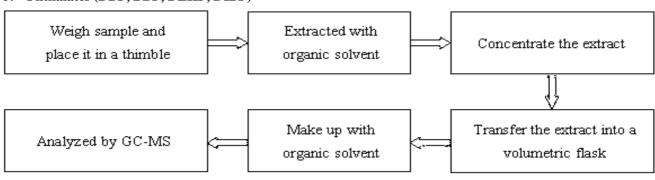
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## **Report No.** A2190023094101003R2**5.** Phthalates (DBP, BBP, DEHP, DIBP)

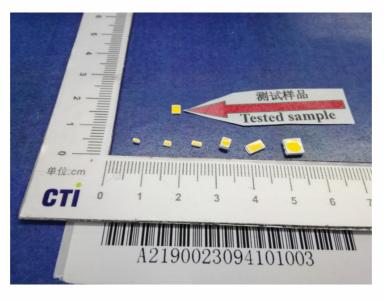
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### Photo(s) of the sample(s)



\*\*\* End of report \*\*\*

Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. 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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