



# Test Report

Report No. : SZC18032980441-2

Date: Apr. 2, 2018

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Applicant: FOSHAN BLUE ROCKET ELECTRONICS CO.,LTD

Address: NO.45 GUXIN ROAD, CHANCHENG DISTRICT, FOSHAN, GUANGDONG, P.R.C..

## Report on the submitted sample(s) said to be:

Sample Name: Full Color LED(Black)

Sample Description: LED body(Tested as a whole)

Sample No.: QT1803298044102

Sample Received Date: Mar. 29, 2018

Testing Period: Mar. 29, 2018- Apr. 2, 2018

**Test Method:** Please refer to the following page(s).

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

Test Requested:	Conclusion
As specified by client, to determine the Pb, Cd, Hg, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP content in the submitted sample with reference to EU RoHS Directive 2011/65/EU and its amendment Directive EU 2015/863.	PASS

Checked by

*Angela*

Angela

Signed for and on behalf of HCT

*Michael*

Michael

Laboratory Manager





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Test Result(s):

Unit: mg/kg

Test Items	Test Method/ Equipment	MDL	Content	EU RoHS Directive 2011/65/EU and its amendment Directive EU 2015/863
<b>Lead(Pb)</b>	Refer to IEC 62321-5:2013. ICP-OES/AAS	2	N.D.	1000
<b>Cadmium(Cd)</b>		2	N.D.	100
<b>Mercury(Hg)</b>	Refer to IEC 62321-4:2017. ICP-OES	2	N.D.	1000
<b>Hexavalent Chromium(Cr(VI)) by Alkaline extraction</b>	Refer to IEC 62321-5:2013/ IEC 62321-7-2:2017. ICP-OES/AAS UV-VIS	8	N.D.	1000
Mono-bromobiphenyl	Refer to IEC 62321-6:2015. GC-MS	5	N.D.	—
Di-bromobiphenyl		5	N.D.	
Tri-bromobiphenyl		5	N.D.	
Tetra-bromobiphenyl		5	N.D.	
Penta-bromobiphenyl		5	N.D.	
Hexa-bromobiphenyl		5	N.D.	
Hepta-bromobiphenyl		5	N.D.	
Octa-bromobiphenyl		5	N.D.	
Nona-bromobiphenyl		5	N.D.	
Deca-bromobiphenyl		5	N.D.	
<b>Polybrominated Biphenyls(PBBs)</b>		—	N.D.	1000
Mono-bromodiphenyl ether		5	N.D.	—
Di-bromodiphenyl ether		5	N.D.	
Tri-bromodiphenyl ether		5	N.D.	
Tetra-bromodiphenyl ether		5	N.D.	
Penta-bromodiphenyl ether		5	N.D.	
Hexa-bromodiphenyl ether		5	N.D.	
Hepta-bromodiphenyl ether		5	N.D.	
Octa-bromodiphenyl ether		5	N.D.	
Nona-bromodiphenyl ether		5	N.D.	
Deca-bromodiphenyl ether	5	N.D.		
<b>Polybrominated DiphenylEthers(PBDEs)</b>	—	N.D.	1000	



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Test Items	Test Method/Equipment	MDL	Content	EU RoHS Directive 2011/65/EU and its amendment Directive EU 2015/863
Dibutyl phthalate (DBP)	Refer to IEC 62321-8:2017, GC-MS	30	N.D.	1000
Butylbenzyl phthalate (BBP)		30	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)		30	N.D.	1000
Di-iso-butyl phthalate(DIBP)		30	N.D.	1000

**Note:** mg/kg=ppm= parts per million

MDL=method detection limit

“—” =Not regulated

N.D.=not detected(less than method detection limit)

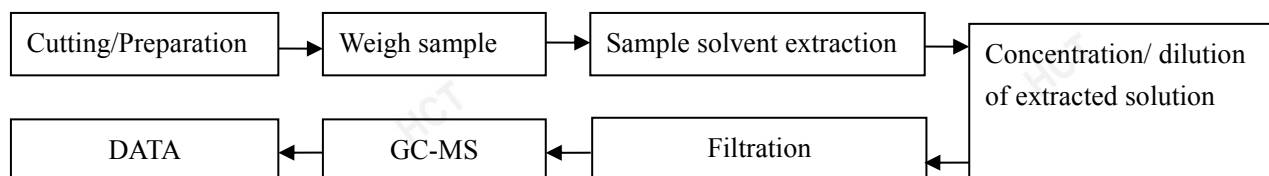
Results shown as N.D. are ignored in the sum calculation.

The detected Chromium (Cr) content is "N.D.", therefore, the Hexavalent Chromium (Cr (VI)) content is "N.D.",

No need for validation test of the Hexavalent Chromium (Cr (VI)).

If Chromium (Cr) content exceeds Hexavalent Chromium (Cr (VI)) method detection limit, Validation test of the Hexavalent Chromium (Cr (VI)) is required.

## Test Flow Chart (DBP, BBP, DEHP, DIBP)



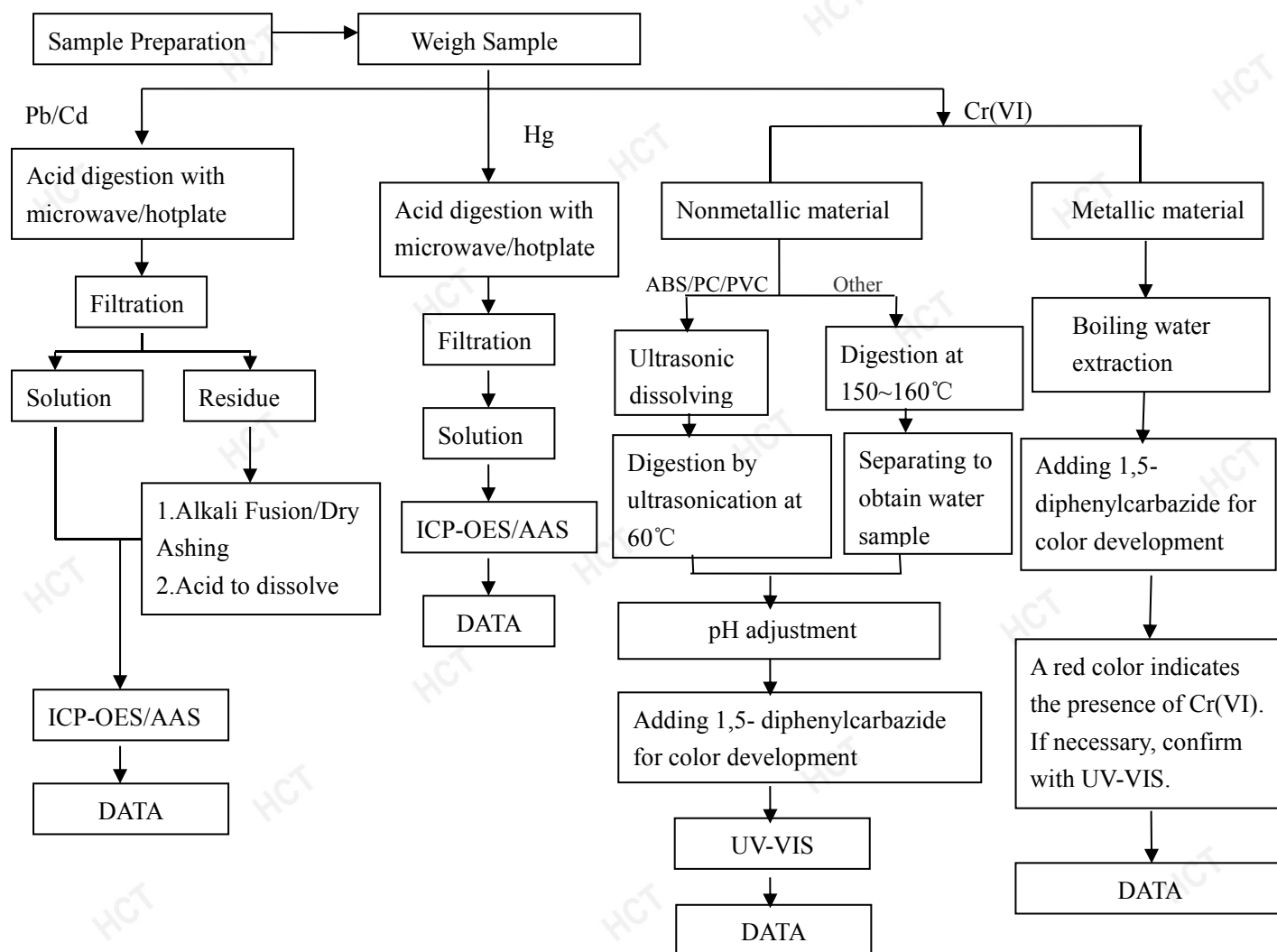
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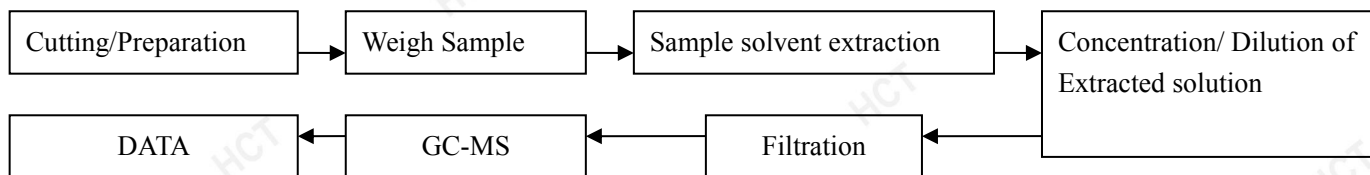
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## Test Flow Chart (Pb, Cd, Hg, Cr(VI), PBBs, PBDEs)



These sample were dissolved totally by pre-conditioning method according to above flow chart(Cr(VI) test method excluded)

### PBBs/PBDEs



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## The photo of the sample



\*\*\*End\*\*\*

This report will go into effect with HCT stamp. This report could not be revised. This report is only responsible for the test result of submitted samples. Without written authorization, any copy of this report for propaganda is invalid.

