



Test Report

Report No: BST180711338301CR

Date: Jul.10, 2018

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Applicant : SHENZHEN GREATFAVONIAN ELECTRONIC CO., LTD.

Address : 5/F, Bldg. 6, Tongfuyu Industry Zone, Lezhujiao, Jiuwei, Xixiang St., Baoan Dist.,
Shenzhen, Guangdong, China 518126

The following sample(s) was /were submitted and identified on behalf of the clients as:

Sample Name : REMOTE CONTROLLED SUBMERSIBLE LED LIGHTS

Sample Model : RCSLL68

Sample Received Date : Jul.05, 2018

Testing Period : Jul.05, 2018 To Jul.10, 2018

Test Requested : Selected test (s) in the selected parts as requested by client with the rohs 2
directive 2011/65/eu as last amended by Directive (EU) 2017/2102.

Test Method : Please refer to next page(s).

Test Result : Please refer to next page(s).

Signed for and on behalf of



Tony Qian/ Approved Signatory

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Dongguan BST Testing Co., Ltd.

A1201-1204 Xinsanqi Of Dongbao Road, Dongcheng District, Tel:400-882-9628 Fax:86-769-23020106
Dongguan, Guangdong, China E-mail:christina@bst-lab.com Http://www.bst-lab.com Complaints hotline:86-755-26747756



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Test Content:

Test Item(s)	Test Method	Reference	Unit	Limit	MDL
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES	mg/kg	100	2
Lead(Pb)	IEC 62321-5:2013	ICP-OES	mg/kg	1000	2
Mercury(Hg)	IEC 62321-4:2013	ICP-OES	mg/kg	1000	2
Hexavalent Chromium(CrVI) (Metal)	IEC 62321-7-1:2015	UV-Vis	µg/cm ²	0.13	0.1
Hexavalent Chromium(CrVI) (Nonmetal)	IEC 62321-7-2:2017	UV-Vis	mg/kg	1000	8
PBBs (Next form)	IEC 62321-6:2015	GC-MS	mg/kg	1000	5
PBDEs (Next form)	IEC 62321-6:2015	GC-MS	mg/kg	1000	5
Dibutyl Phthalate(DBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Butyl benzyl phthalate (BBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Di-(2-ethylhexyl) Phthalate(DEHP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Diisobutyl phthalate (DIBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30

PBBs		PBDEs	
Monobromobiphenyl	Hexabromobiphenyl	Monobromodiphenyl ether	Hexabromodiphenyl ether
Dibromobiphenyl	Heptabromobiphenyl	Dibromodiphenyl ether	Heptabromodiphenyl ether
Tribromobiphenyl	Octabromobiphenyl	Tribromodiphenyl ether	Octabromodiphenyl ether
Tetrabromobiphenyl	Nonabromobiphenyl	Tetrabromodiphenyl ether	Nonabromodiphenyl ether
Pentabromobiphenyl	Decabromobiphenyl	Pentabromodiphenyl ether	Decabromodiphenyl ether

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Sample Description:

No.	Description	Name	
1	Plastic	Remote Control	White Plastic
2	Plastic		Black Shell
3	Battery		Battery
4	PCB		PCB
5	Metal		Spring
6	Metal		Solder
7	Plastic	Transparent Plastic	
8	Sticker	Sticker	
9	Metal	Silver Metal	
10	Rubber	Transparent Rubber	
11	Metal	Sheet Metal	
12	Resistance	Resistance	
13	Capacitance	Capacitance	
14	IC	IC	
15	Diode	Diode	
16	Triode	Triode	
17	LED	LED	
18	Metal	PCB Solder	

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Test Result:

Test Item(s)	No.1	No.2	No.3	No.4	No.5
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	--	N.D.	--
PBDEs	N.D.	N.D.	--	N.D.	--
Dibutyl Phthalate (DBP)	N.D.	N.D.	--	N.D.	--
Butyl benzyl phthalate (BBP)	N.D.	N.D.	--	N.D.	--
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	--	N.D.	--
Diisobutyl phthalate (DIBP)	N.D.	N.D.	--	N.D.	--
Test Item(s)	No.6	No.7	No.8	No.9	No.10
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	--	N.D.	N.D.	--	N.D.
PBDEs	--	N.D.	N.D.	--	N.D.
Dibutyl Phthalate (DBP)	--	N.D.	N.D.	--	N.D.
Butyl benzyl phthalate (BBP)	--	N.D.	N.D.	--	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	--	N.D.	N.D.	--	N.D.
Diisobutyl phthalate (DIBP)	--	N.D.	N.D.	--	N.D.

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Test Item(s)	No.11	No.12	No.13	No.14
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.
PBBs	--	N.D.	N.D.	N.D.
PBDEs	--	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	--	N.D.	N.D.	N.D.
Butyl benzyl phthalate (BBP)	--	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	--	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	--	N.D.	N.D.	N.D.
Test Item(s)	No.15	No.16	No.17	No.18
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	473
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	N.D.	--
PBDEs	N.D.	N.D.	N.D.	--
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	--
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	--
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	N.D.	--
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	--

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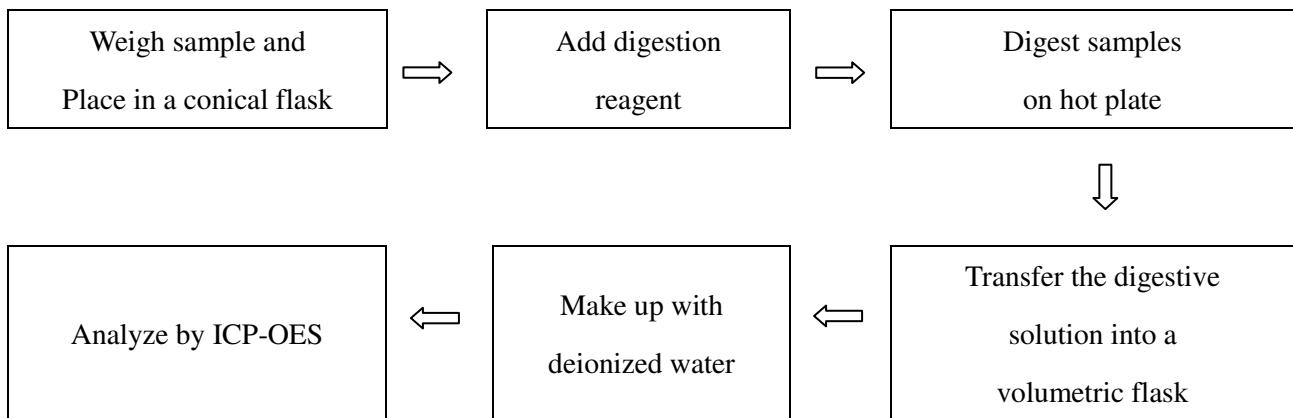
Date: Jul.10, 2018

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- Note:**
1. mg/kg= ppm
 2. N.D.= Not Detected(<MDL)
 3. MDL = Method Detection Limit
 4. -- = No Testing
 5. when Cr(VI) in a sample is detected below the $0.10 \mu\text{g}/\text{cm}^2$ LOQ (limit of quantification), the sample is considered to be negative for Cr(VI). Since Cr(VI) may not be uniformly distributed in the coating even within the same sample batch, a "grey zone" between $0.10 \mu\text{g}/\text{cm}^2$ and $0.13 \mu\text{g}/\text{cm}^2$ has been established as "inconclusive" to reduce inconsistent results due to unavoidable coating variations. In this case, additional testing may be necessary to confirm the presence of Cr(VI). When Cr(VI) is detected above $0.13 \mu\text{g}/\text{cm}^2$, the sample is considered to be positive for the presence of Cr(VI) in the coating layer. unavoidable coating variations may influence the determination Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Test Process:

1. Test for Cd/Pb Content



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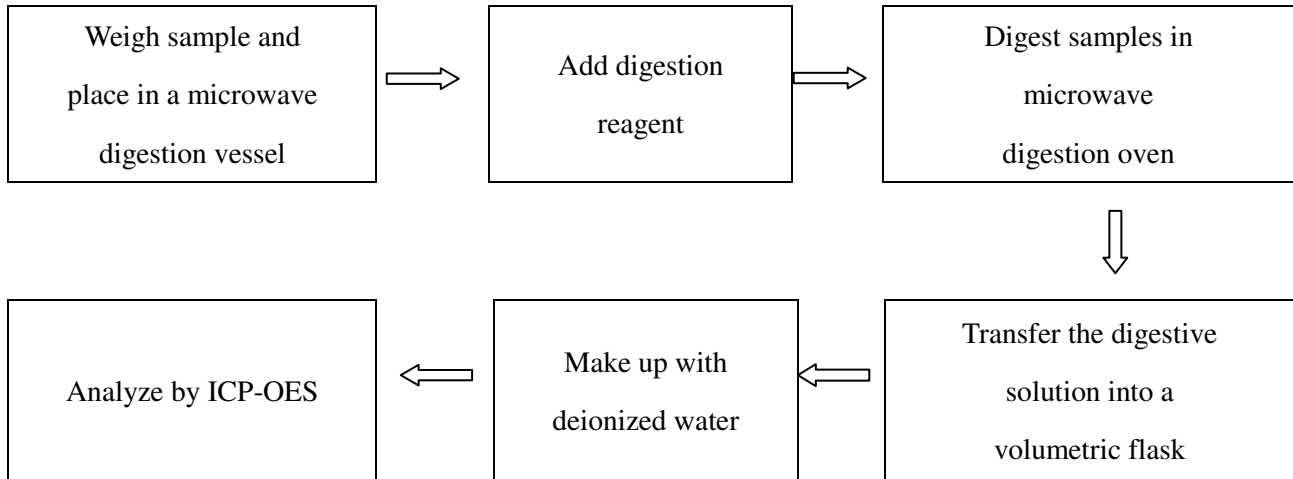
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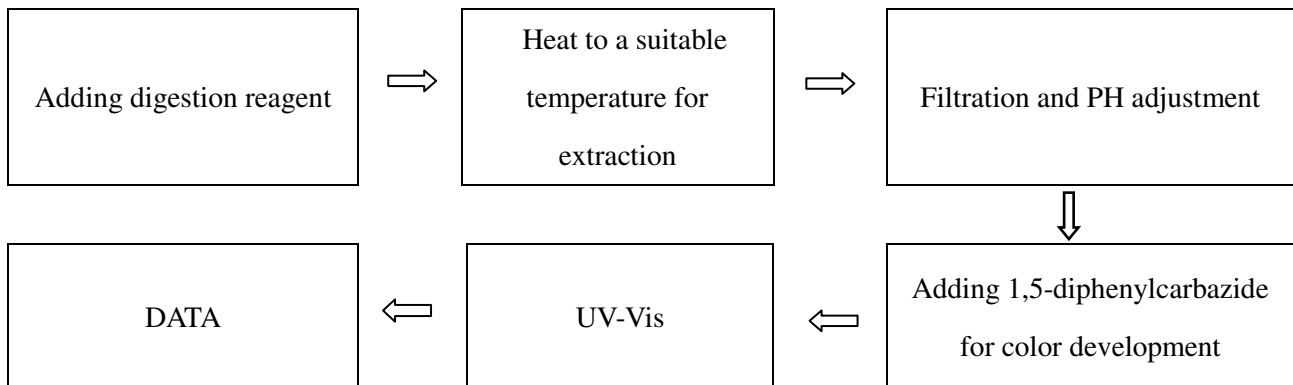
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2. Test for Hg Content

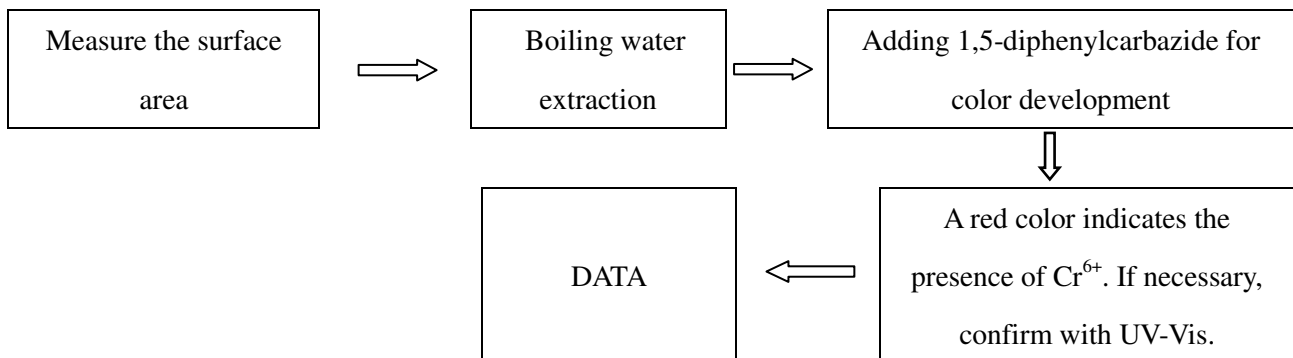


3. Test for Chromium (VI) Content

Nonmetal material



Metal material



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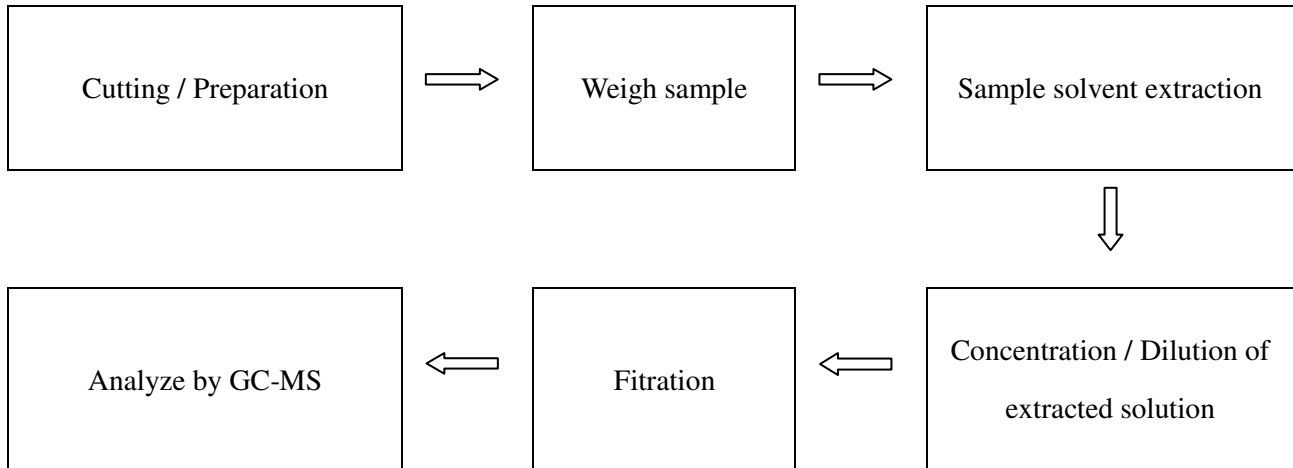
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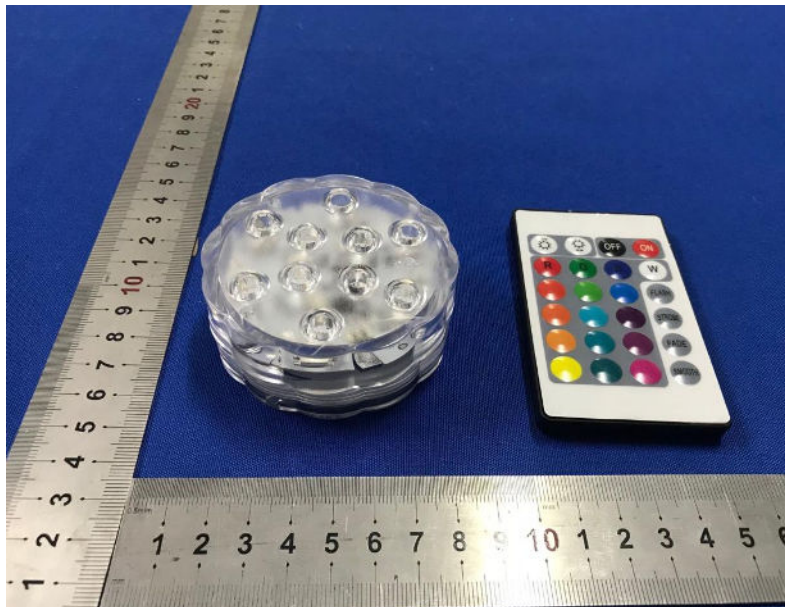
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4. Test for DBP, BBP, DEHP, DIBP, PBB, PBDE Content



Sample Photo:



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