

Test Report

Applicant: GuangZhou STS Lighting Equipment Co.,Ltd.
No.251 Tingshi North Road Chaoyang Shijing Town Baiyun District
Guangzhou China

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

Sample Name: UMBRELLA LIGHT

Model: HU826, HU526, HU226

Trade Mark: STSLITE

Date of Test: Mar. 12, 2018 - Mar. 21, 2018

Date of Report: Mar. 21, 2018

Test Requested: Base upon the performed tests by submitted sample, the test results comply with the limits as set by Directive (EU) 2015/863 - Amendment of EU RoHS Directive 2011/65/EU (RoHS 2.0) Annex II.

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

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

Checked By:



(Eric Zhang)

Approved By:



(Coco Tang)



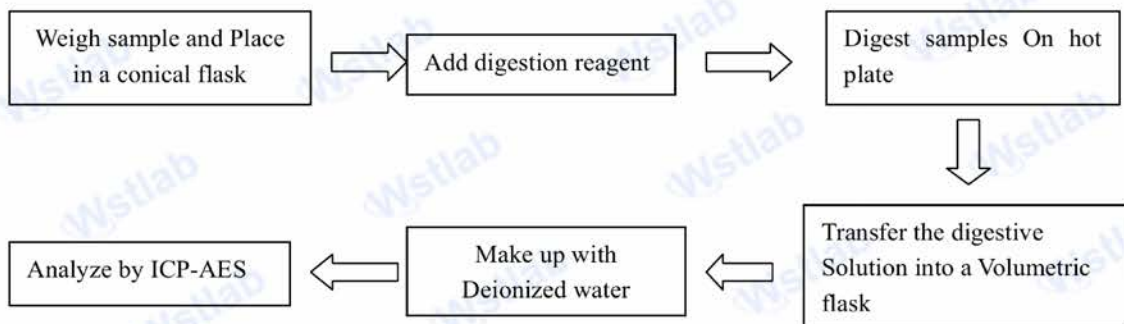
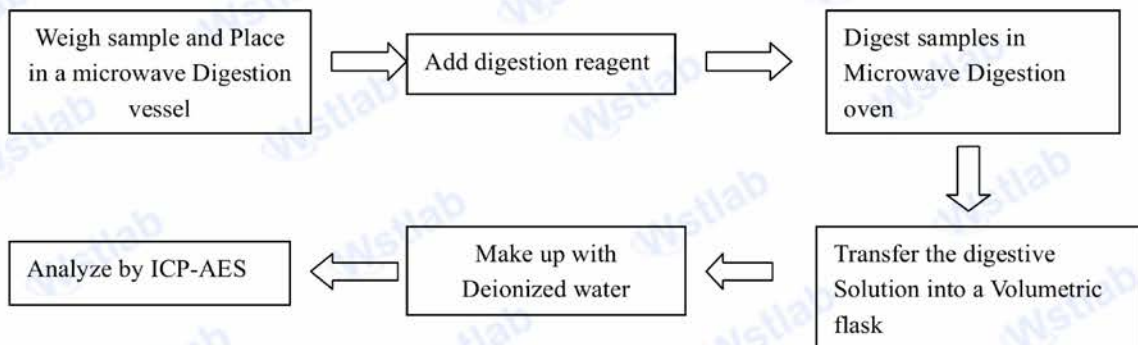
Test Method:

(1) With reference to IEC 62321:2008

Testing item	Pretreatment method	Measuring instrument	MDL
Lead(Pb)	IEC 62321-5: 2013	ICP-OES	2 mg/kg
Cadmium(Cd)	IEC 62321-5: 2013	ICP-OES	2 mg/kg
Mercury(Hg)	IEC 62321-4: 2013	ICP-OES	2 mg/kg
Chromium(Cr VI)	IEC 62321:2008	UV-VIS	2 mg/kg
PBBs/ PBDEs	IEC 62321-6:2015	GC-MS	5 mg/kg

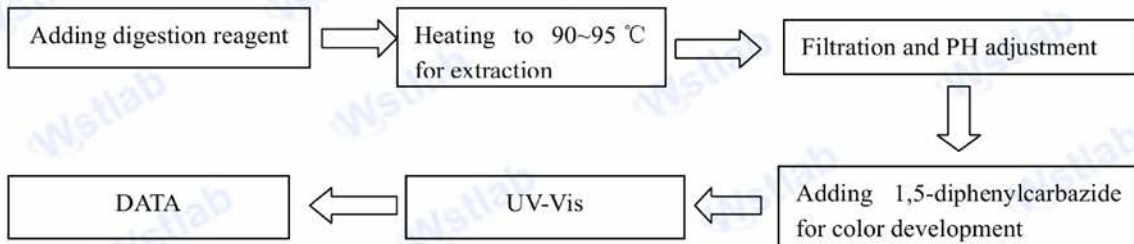
(2) With reference to EN 14372:2004

Testing item	Pretreatment method	Measuring instrument	MDL
DEHP, DBP, BBP, DIBP	EN 14372:2004	GC-MS	0.003 mg/kg

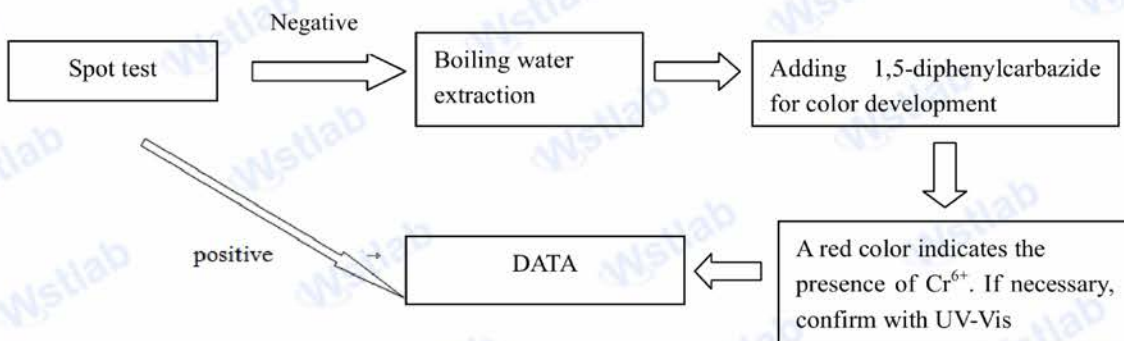
Test Process:**1. Test for Cd/Pb Content****2. Test for Hg Content**

3. Test for Chromium(VI) Content

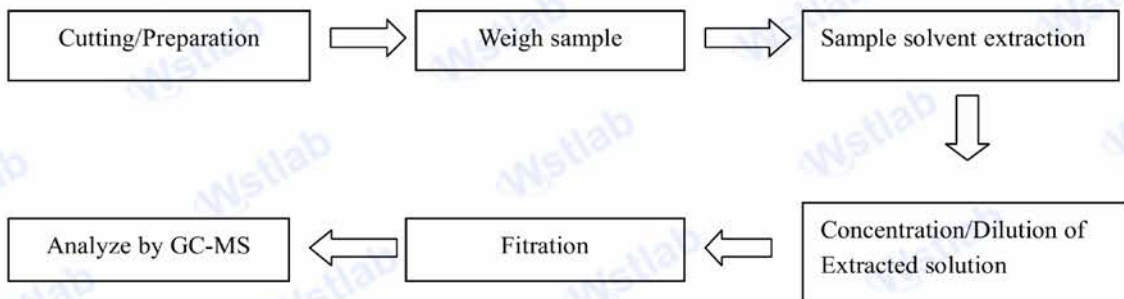
Nonmetallic material



Metallic material



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



Test Results:

Testing Item	Unit	ROHS Limit	Result					
			1	2	3	4	5	6
Lead(Pb)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium(Cd)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury(Hg)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(Cr VI)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBBs	mg/kg	1000	N.D.	/	N.D.	N.D.	/	N.D.
Monobromobiphenyl	mg/kg	-	N.D.	/	N.D.	N.D.	/	N.D.
Dibromobiphenyl	mg/kg	-	N.D.	/	N.D.	N.D.	/	N.D.
Tribromobiphenyl	mg/kg	-	N.D.	/	N.D.	N.D.	/	N.D.
Tetrabromobiphenyl	mg/kg	-	N.D.	/	N.D.	N.D.	/	N.D.
Pentabromobiphenyl	mg/kg	-	N.D.	/	N.D.	N.D.	/	N.D.
Hexabromobiphenyl	mg/kg	-	N.D.	/	N.D.	N.D.	/	N.D.
Heptabromobiphenyl	mg/kg	-	N.D.	/	N.D.	N.D.	/	N.D.
Octabromobiphenyl	mg/kg	-	N.D.	/	N.D.	N.D.	/	N.D.
Nonabromobiphenyl	mg/kg	-	N.D.	/	N.D.	N.D.	/	N.D.
Decabromobiphenyl	mg/kg	-	N.D.	/	N.D.	N.D.	/	N.D.
Sum of PBDEs	mg/kg	1000	N.D.	/	N.D.	N.D.	/	N.D.
Monobromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	N.D.	/	N.D.
Dibromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	N.D.	/	N.D.
Tribromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	N.D.	/	N.D.
Tetrabromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	N.D.	/	N.D.
Pentabromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	N.D.	/	N.D.
Hexabromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	N.D.	/	N.D.
Heptabromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	N.D.	/	N.D.
Octabromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	N.D.	/	N.D.
Nonabromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	N.D.	/	N.D.
Decabromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	N.D.	/	N.D.
Diisobutyl phthalate (DIBP)	mg/kg	1000	N.D.	/	N.D.	N.D.	/	N.D.
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	1000	N.D.	/	N.D.	N.D.	/	N.D.
Benzylbutyl Phthalate (BBP)	mg/kg	1000	N.D.	/	N.D.	N.D.	/	N.D.
Dibutyl Phthalate (DBP)	mg/kg	1000	N.D.	/	N.D.	N.D.	/	N.D.

Sample Description:

- 1: Cloth
- 2: Metal shell
- 3: Wire rod
- 4: Plug
- 5: Metal parts
- 6: Lamp beads

Testing Item	Unit	ROHS Limit	Result					
			7	8	9	10	11	12
Lead(Pb)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium(Cd)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury(Hg)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(Cr VI)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBBs	mg/kg	1000	N.D.	/	N.D.	N.D.	N.D.	N.D.
Monobromobiphenyl	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	N.D.
Dibromobiphenyl	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	N.D.
Tribromobiphenyl	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	N.D.
Tetrabromobiphenyl	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	N.D.
Pentabromobiphenyl	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	N.D.
Hexabromobiphenyl	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	N.D.
Heptabromobiphenyl	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	N.D.
Octabromobiphenyl	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	N.D.
Nonabromobiphenyl	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	N.D.
Decabromobiphenyl	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	N.D.
Sum of PBDEs	mg/kg	1000	N.D.	/	N.D.	N.D.	N.D.	N.D.
Monobromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	N.D.
Dibromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	N.D.
Tribromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	N.D.
Tetrabromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	N.D.
Pentabromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	N.D.
Hexabromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	N.D.
Heptabromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	N.D.
Octabromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	N.D.
Nonabromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	N.D.
Decabromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	mg/kg	1000	N.D.	/	N.D.	N.D.	N.D.	N.D.
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	1000	N.D.	/	N.D.	N.D.	N.D.	N.D.
Benzylbutyl Phthalate (BBP)	mg/kg	1000	N.D.	/	N.D.	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	mg/kg	1000	N.D.	/	N.D.	N.D.	N.D.	N.D.

Sample Description:

7: Blue plastic

8: Screw

9: Black tape

10: Interface

11: PCB board

12: Inductance

Testing Item	Unit	ROHS Limit	Result					
			13	14	15	16	17	18
Lead(Pb)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium(Cd)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury(Hg)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(Cr VI)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBBs	mg/kg	1000	N.D.	N.D.	/	N.D.	N.D.	N.D.
Monobromobiphenyl	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Dibromobiphenyl	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Tribromobiphenyl	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Tetrabromobiphenyl	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Pentabromobiphenyl	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Hexabromobiphenyl	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Heptabromobiphenyl	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Octabromobiphenyl	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Nonabromobiphenyl	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Decabromobiphenyl	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Sum of PBDEs	mg/kg	1000	N.D.	N.D.	/	N.D.	N.D.	N.D.
Monobromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Dibromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Tribromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Tetrabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Pentabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Hexabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Heptabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Octabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Nonabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Decabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	mg/kg	1000	N.D.	N.D.	/	N.D.	N.D.	N.D.
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	1000	N.D.	N.D.	/	N.D.	N.D.	N.D.
Benzylbutyl Phthalate (BBP)	mg/kg	1000	N.D.	N.D.	/	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	mg/kg	1000	N.D.	N.D.	/	N.D.	N.D.	N.D.

Sample Description:

- 13: Optocoupler
- 14: Insulated wire
- 15: Transformer
- 16: Enameled wire
- 17: Insulating tape
- 18: Y capacitor

Testing Item	Unit	ROHS Limit	Result					
			19	20	21	/	/	/
Lead(Pb)	mg/kg	1000	N.D.	N.D.	N.D.	/	/	/
Cadmium(Cd)	mg/kg	100	N.D.	N.D.	N.D.	/	/	/
Mercury(Hg)	mg/kg	1000	N.D.	N.D.	N.D.	/	/	/
Chromium(Cr VI)	mg/kg	1000	N.D.	N.D.	N.D.	/	/	/
Sum of PBBs	mg/kg	1000	N.D.	/	N.D.	/	/	/
Monobromobiphenyl	mg/kg	-	N.D.	/	N.D.	/	/	/
Dibromobiphenyl	mg/kg	-	N.D.	/	N.D.	/	/	/
Tribromobiphenyl	mg/kg	-	N.D.	/	N.D.	/	/	/
Tetrabromobiphenyl	mg/kg	-	N.D.	/	N.D.	/	/	/
Pentabromobiphenyl	mg/kg	-	N.D.	/	N.D.	/	/	/
Hexabromobiphenyl	mg/kg	-	N.D.	/	N.D.	/	/	/
Heptabromobiphenyl	mg/kg	-	N.D.	/	N.D.	/	/	/
Octabromobiphenyl	mg/kg	-	N.D.	/	N.D.	/	/	/
Nonabromobiphenyl	mg/kg	-	N.D.	/	N.D.	/	/	/
Decabromobiphenyl	mg/kg	-	N.D.	/	N.D.	/	/	/
Sum of PBDEs	mg/kg	1000	N.D.	/	N.D.	/	/	/
Monobromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	/	/	/
Dibromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	/	/	/
Tribromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	/	/	/
Tetrabromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	/	/	/
Pentabromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	/	/	/
Hexabromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	/	/	/
Heptabromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	/	/	/
Octabromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	/	/	/
Nonabromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	/	/	/
Decabromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	/	/	/
Diisobutyl phthalate (DIBP)	mg/kg	1000	N.D.	/	N.D.	/	/	/
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	1000	N.D.	/	N.D.	/	/	/
Benzylbutyl Phthalate (BBP)	mg/kg	1000	N.D.	/	N.D.	/	/	/
Dibutyl Phthalate (DBP)	mg/kg	1000	N.D.	/	N.D.	/	/	/

Sample Description:

19: Varistor

20: Fuse

21: X capacitor

Notes:

1mg/kg=1ppm = 0.0001%

N.D. = Not Detected (<MDL)

MDL = Method Detection Limit

/=Not Regulated

Breakdown of product

Sample photo: 1



-----End of report -----