



# **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: Lighting Equipment

Model: M WASH 920Z

Trade Mark: STSLITE

Date of Test: May 16, 2017 ~ May 23, 2017

Date of Report: May 23, 2017

Test Requested: As specified by client, to determine the Pb, Cd, Hg, Cr(VI), PBBs, PBDEs content in the

submitted sample.

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

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

Test Conclusion: 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.

Checked By:

(Eric Zhang)

Approved By:

( Melon Tang )

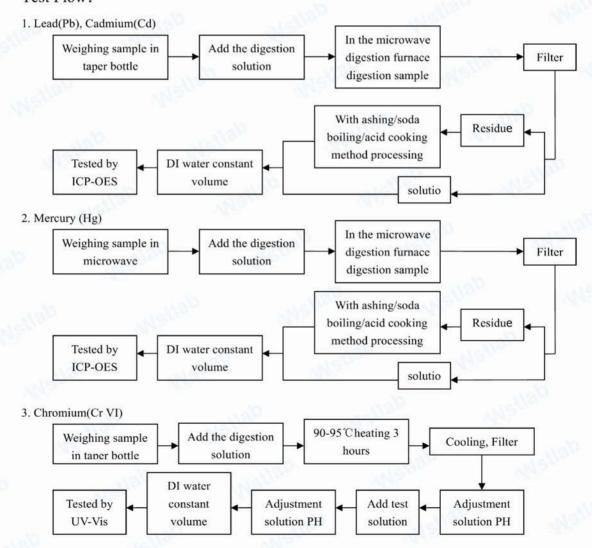


## Test Method:

### (1) With reference to IEC 62321:2008

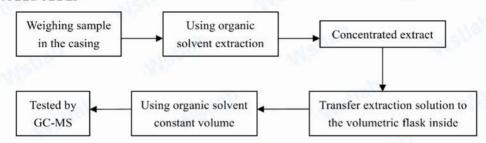
Testing item	Pretreatment method	Measuring instrument	MDL
Lead(Pb)	IEC 62321-5: 2013	ICP-OES	2 mg/kg
Cadmium(Cd)	IEC 62321-5: 2013	ICP-OES	2 mg/kg
Mercury(Hg)	IEC 62321-4: 2013	ICP-OES	2 mg/kg
Chromium(Cr VI)	IEC 62321:2008	UV-VIS	2 mg/kg
PBBs/ PBDEs	IEC 62321-6:2015	GC-MS	5 mg/kg

## Test Flow:





### 4. PBBs/ PBDEs





# Test Results:

Testing Item	Unit	ROHS Limit	Result						
resting item			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.	N.D.	N.D	
Monobromobiphenyl	mg/kg	132	N.D.	N.D.	N.D.	N.D.	N.D.	N.D	
Dibromobiphenyl	mg/kg	3(=)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D	
Tribromobiphenyl	mg/kg	10-1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D	
Tetrabromobiphenyl	mg/kg		N.D.	N.D.	N.D.	N.D.	N.D.	N.D	
Pentabromobiphenyl	mg/kg	1 -	N.D.	N.D.	N.D.	N.D.	N.D.	N.D	
Hexabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.E	
Heptabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D	
Octabromobiphenyl	mg/kg	-15	N.D.	N.D.	N.D.	N.D.	N.D.	N.D	
Nonabromobiphenyl	mg/kg	7/2/	N.D.	N.D.	N.D.	N.D.	N.D.	N.D	
Decabromobiphenyl	mg/kg	25	N.D.	N.D.	N.D.	N.D.	N.D.	N.E	
Sum of PBDEs	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D	
Monobromodiphenyl ether	mg/kg	V=0	N.D.	N.D.	N.D.	N.D.	N.D.	N.D	
Dibromodiphenyl ether	mg/kg	920	N.D.	N.D.	N.D.	N.D.	N.D.	N.D	
Tribromodiphenyl ether	mg/kg		N.D.	N.D.	N.D.	N.D.	N.D.	N.D	
Tetrabromodiphenyl ether	mg/kg		N.D.	N.D.	N.D.	N.D.	N.D.	N.E	
Pentabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.E	
Hexabromodiphenyl ether	mg/kg		N.D.	N.D.	N.D.	N.D.	N.D.	N.E	
Heptabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D	
Octabromodiphenyl ether	mg/kg		N.D.	N.D.	N.D.	N.D.	N.D.	N.D	
Nonabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.E	
Decabromodiphenyl ether	mg/kg	(i+)	N.D.	N.D.	N.D.	N.D.	N.D.	N.E	

- 1: Hardware
- 2: Power Supply
- 3: X shaft motor
- 4: Y shaft motor
- 5: Focusing shaft motor
- 6: The qalun board



Togting Itom	77-14	ROHS Limit	Result						
Testing Item	Unit		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.	N.D.	
Monobromobiphenyl	mg/kg	8#3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	A 12-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	* -	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D	
Heptabromobiphenyl	mg/kg		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	(12)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Nonabromobiphenyl	mg/kg	a-ale	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Decabromobiphenyl	mg/kg	-	N.D.	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.	N.D	
Monobromodiphenyl ether	mg/kg	020	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	1 38	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D	
Pentabromodiphenyl ether	mg/kg	( <del></del> )	N.D.	N.D.	N.D.	N.D.	N.D.	N.D	
Hexabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D	
Heptabromodiphenyl ether	mg/kg	10 to 4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	12	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	

- 7: Siamese Kalong seat
- 8: Cassette power male seat
- 9: Safety tube
- 10: Power cord
- 11: Circuit board
- 12: Light coupler plate



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.	1	N.D.	N.D.	N.D	
Monobromobiphenyl	mg/kg	S#)	N.D.	N.D.	1	N.D.	N.D.	N.D	
Dibromobiphenyl	mg/kg	A 18-	N.D.	N.D.	1	N.D.	N.D.	N.D	
Tribromobiphenyl	mg/kg	-	N.D.	N.D.	1	N.D.	N.D.	N.D	
Tetrabromobiphenyl	mg/kg	-	N.D.	N.D.	1	N.D.	N.D.	N.D	
Pentabromobiphenyl	mg/kg	-	N.D.	N.D.	1	N.D.	N.D.	N.D	
Hexabromobiphenyl	mg/kg	-	N.D.	N.D.	1	N.D.	N.D.	N.D	
Heptabromobiphenyl	mg/kg	0.5	N.D.	N.D.	1	N.D.	N.D.	N.D	
Octabromobiphenyl	mg/kg	32	N.D.	N.D.	1	N.D.	N.D.	N.D	
Nonabromobiphenyl	mg/kg	z-a1E	N.D.	N.D.	1	N.D.	N.D.	N.D	
Decabromobiphenyl	mg/kg	-	N.D.	N.D.	1	N.D.	N.D.	N.D	
Sum of PBDEs	mg/kg	1000	N.D.	N.D.	1	N.D.	N.D.	N.E	
Monobromodiphenyl ether	mg/kg	929	N.D.	N.D.	1	N.D.	N.D.	N.D	
Dibromodiphenyl ether	mg/kg		N.D.	N.D.	1	N.D.	N.D.	N.D	
Tribromodiphenyl ether	mg/kg		N.D.	N.D.	1	N.D.	N.D.	N.D	
Tetrabromodiphenyl ether	mg/kg	-	N.D.	N.D.	1	N.D.	N.D.	N.E	
Pentabromodiphenyl ether	mg/kg	1.5	N.D.	N.D.	1	N.D.	N.D.	N.E	
Hexabromodiphenyl ether	mg/kg	-	N.D.	N.D.	1	N.D.	N.D.	N.I	
Heptabromodiphenyl ether	mg/kg	N ke	N.D.	N.D.	-1	N.D.	N.D.	N.D	
Octabromodiphenyl ether	mg/kg	121	N.D.	N.D.	1	N.D.	N.D.	N.D	
Nonabromodiphenyl ether	mg/kg	-	N.D.	N.D.	1	N.D.	N.D.	N.D	
Decabromodiphenyl ether	mg/kg	120	N.D.	N.D.	1	N.D.	N.D.	N.D	

- 13: Optocoupler
- 14: Lens
- 15: Magnet
- 16: Magnetic susceptibility
- 17: Magnetic sensitive plate
- 18: Lamp beads



Testing Item	Unit	ROHS Limit	Result						
			19	20	21	22	23	24	
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.	N.D.	
Monobromobiphenyl	mg/kg	S#3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	A 12-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	* -	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D	
Heptabromobiphenyl	mg/kg		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	(12)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Nonabromobiphenyl	mg/kg	-10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Decabromobiphenyl	mg/kg	-	N.D.	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.	N.D.	
Monobromodiphenyl ether	mg/kg	020	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	1.00	N.D.	N.D.	N.D.	N.D.	N.D.	N.D	
Tetrabromodiphenyl ether	mg/kg	5.45	N.D.	N.D.	N.D.	N.D.	N.D.	N.D	
Pentabromodiphenyl ether	mg/kg	( <del></del> )	N.D.	N.D.	N.D.	N.D.	N.D.	N.D	
Hexabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D	
Heptabromodiphenyl ether	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	121	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	

19: Aluminum substrate

20: Fan

21: X axle belt

22: Y axle belt

23: Machine foot

24: Wire rod



Testing Item	Unit	ROHS Limit	Result						
			25	26	27	28	29	/	
Lead(Pb)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	1	
Cadmium(Cd)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	1	
Mercury(Hg)	mg/kg	1000	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.	1	
Sum of PBBs	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	:1	
Monobromobiphenyl	mg/kg	9347	N.D.	N.D.	N.D.	N.D.	N.D.	- 1	
Dibromobiphenyl	mg/kg	A 10-	N.D.	N.D.	N.D.	N.D.	N.D.	- 1	
Tribromobiphenyl	mg/kg	823	N.D.	N.D.	N.D.	N.D.	N.D.		
Tetrabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	- 1	
Pentabromobiphenyl	mg/kg	25	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.	5.0	
Octabromobiphenyl	mg/kg	)/ <b>=</b> )	N.D.	N.D.	N.D.	N.D.	N.D.	- 1	
Nonabromobiphenyl	mg/kg	z-n1E	N.D.	N.D.	N.D.	N.D.	N.D.		
Decabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	1	
Sum of PBDEs	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.		
Monobromodiphenyl ether	mg/kg	200	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.	Į.	
Pentabromodiphenyl ether	mg/kg	12.	N.D.	N.D.	N.D.	N.D.	N.D.	10	
Hexabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	- /	
Heptabromodiphenyl ether	mg/kg	N ke	N.D.	N.D.	N.D.	N.D.	N.D.	1	
Octabromodiphenyl ether	mg/kg	121	N.D.	N.D.	N.D.	N.D.	N.D.	1	
Nonabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	- 1	
Decabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.		

- 25: Display sticker
- 26: Quick locking seat
- 27: Plastic bags
- 28: Pearl cotton
- 29: Carton





### Notes:

1mg/kg=1ppm = 0.0001% N.D. = Not Detected (<MDL) MDL = Method Detection Limit /=Not Regulated

Breakdown of product







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