



**CENTRE OF TESTING SERVICE  
INTERNATIONAL**

**OPERATE ACCORDING TO ISO/IEC 17025**

# **TEST REPORT**

**RoHS 2011/65/EU**

**Test Report Number : CGZ3131230-04015-C-R1**



**CTS (Ningbo) Testing Service Technology Co., Ltd.**

**Fl.2 South Huoju Building, No.181 Canghai Rd., Jiangdong High-tech Park, Ningbo China**

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## TEST REPORT

REPORT No. : CGZ3131230-04015-C-R1  
DATE : Jan. 21, 2014  
PAGE : 1 of 10

### Table of contents

<b>1</b>	<b>General Information</b>	<b>2</b>
1.1	Application Details	2
1.2	Manufacturer & Buyer	2
1.3	Description of the Test Item	2
<b>2</b>	<b>Test results</b>	<b>4</b>
2.1	Sample Receiving Date	4
2.2	Testing Period	4
2.3	Test Requested	4
2.4	Test Method	4
2.5	Chemical Test Method Flow Chart	5
2.6	Conclusion	6
2.7	Test Results	7
2.7.1	Test results of all parts by EDXRF and chemical confirmation	7
<b>3</b>	<b>Sample Reference Photo</b>	<b>10</b>

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## TEST REPORT

REPORT No. : CGZ3131230-04015-C-R1  
 DATE : Jan. 21, 2014  
 PAGE : 2 of 10

### 1 General Information

#### 1.1 Application Details

Name : Shenzhen Aglare Lighting Co., Ltd.  
 Address : Factory A, Supply and Marketing Cooperative Industrial Park,  
 Guanlan Avenue, Guanlan Town, Bao'an District, Shenzhen City,  
 Guangdong, China  
 Contact : Cheng Jun  
 Telephone : +86-755-88868631  
 Fax : +86-27659398  
 Mobile telephone : 13902981139  
 Email : aglare@aglare.com

#### 1.2 Manufacturer & Buyer

Manufacturer name : Shenzhen Aglare Lighting Co., Ltd.  
 Address : Factory A, Supply and Marketing Cooperative Industrial Park,  
 Guanlan Avenue, Guanlan Town, Bao'an District, Shenzhen City,  
 Guangdong, China  
 Contact : Cheng Jun  
 Telephone : +86-755-88868631  
 Fax : +86-27659398  
 Mobile telephone : 13902981139  
 Email : aglare@aglare.com  
 Buyer name : /

#### 1.3 Description of the Test Item

Sample name : LED Amusement Light  
 Model No. : YJLED-001A-S12RGB; YJLED-015-SM16RGB, YJLED-007-SV12,  
 YJLED-007-SM12, YJLED-007-SV16, YJLED-007-SM16, YJLED-  
 007-SV18, YJLED-007-SM18, YJLED-007-SV20, YJLED-007-SM20,  
 YJLED-008-SV12, YJLED-008-SM12, YJLED-008-SV16, YJLED-  
 008-SM16, YJLED-008-SV20, YJLED-008-SM20, YJLED-009-SV12,  
 YJLED-009-SM12, YJLED-009-SV16, YJLED-009-SM16, YJLED-  
 009-SV20, YJLED-009-SM20, YJLED-010-SV22, YJLED-011-SV12,  
 YJLED-011-SV16, YJLED-011-SV20, YJLED-011-SM22, YJLED-  
 013-SV8, YJLED-013-SM8, YJLED-015-SV12RGB, YJLED-015-  
 SM16RGB-1, YJLED-015-S12RGB, YJLED-018-SM12, YJLED-018-  
 SV16, YJLED-018-SV20, YJLED-018-SM18, YJLED-018-ST9,  
 YJLED-019-S8RGB, YJLED-019-S15WW-A, YJLED-019-SV18,  
 YJLED-A019-S8RGB, YJLED-020-S1RGB, YJLED-021-S1RGB,  
 YJLED-022-S3RGB, YJLED-024-S6, YJLED-001A-S48RGB-1-A,

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**TEST REPORT**

REPORT No. : CGZ3131230-04015-C-R1  
DATE : Jan. 21, 2014  
PAGE : 3 of 10

YJLED-002A-S12RGB, YJLED-003A-S12RGB, YJLED-A003A-S12RGB, YJLED-004A-S12RGB-1, YJLED-A004A-S12RGB-1, YJLED-005A-S12RGB, YJLED-A005A-S12RGB, YJLED-006A-S12RGB-1, YJLED-A006A-S12RGB-1, YJLED-A008-SV16, YJLED-A008-SV20, YJLED-008-ST8RGB

Brand name : Aglare Lighting  
Condition of sample(s) : EFFECTIVE

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## TEST REPORT

REPORT No. : CGZ3131230-04015-C-R1  
 DATE : Jan. 21, 2014  
 PAGE : 4 of 10

## 2 Test results

### 2.1 Sample Receiving Date

Dec. 30, 2013

### 2.2 Testing Period

Dec. 30, 2013 to Jan. 06, 2014

### 2.3 Test Requested

In accordance with the RoHS Directive 2011/65/EU Annex II.

### 2.4 Test Method

1. X-Ray Fluorescence Spectrometry method in reference to IEC 62321: 2008.
2. Chemical test method

Test Item(s)	Test Method	Test Instrument
Lead (Pb)	With reference to IEC 62321:2008	ICP-AES
Cadmium (Cd)	With reference to IEC 62321:2008	ICP-AES
Mercury (Hg)	With reference to IEC 62321:2008	ICP-AES
Chromium (Cr )	With reference to IEC 62321:2008	UV-Vis
PBBs	With reference to IEC 62321:2008	GC-MS
PBDEs		

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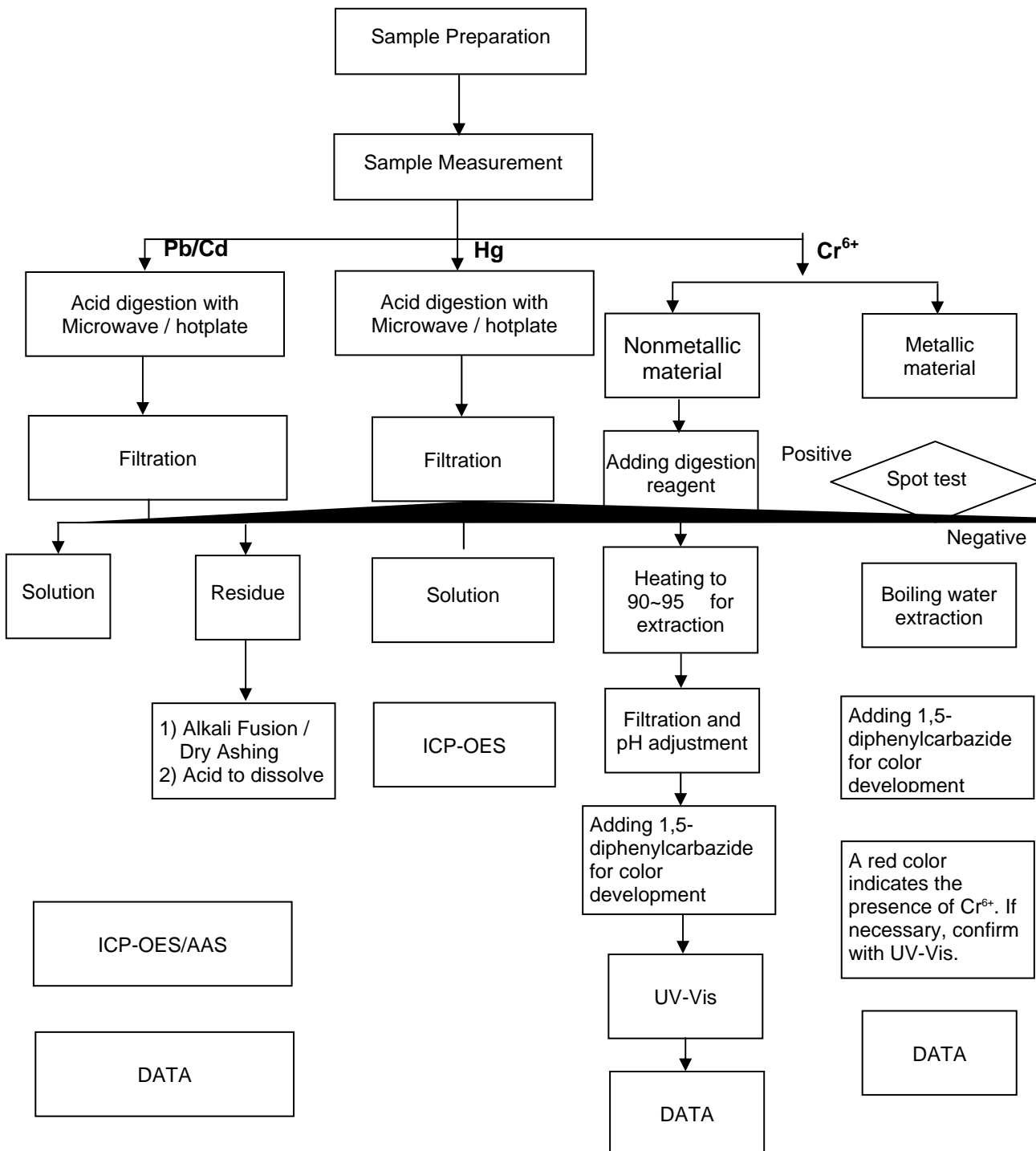
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## TEST REPORT

REPORT No. : CGZ3131230-04015-C-R1  
 DATE : Jan. 21, 2014  
 PAGE : 5 of 10

### 2.5 Chemical Test Method Flow Chart



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**TEST REPORT**

REPORT No. : CGZ3131230-04015-C-R1  
DATE : Jan. 21, 2014

## TEST REPORT

REPORT No. : CGZ3131230-04015-C-R1  
 DATE : Jan. 21, 2014  
 PAGE : 7 of 10

### 2.7 Test Results

#### 2.7.1 Test results of all parts by EDXRF and chemical confirmation

No.	Sample Description		Results					Chemical Confirmation Result (Unit=mg/kg)		
			Pb	Cd	Hg	Cr	Br			
1	Cover(YJLE D-001A-S12RGB)	Transparent plastic cover	P	P	P	P	P			
2		White plastic cover	P	P	P	P	P			
3		Silvery metal screw	P	P	P	P	/			
4		Black ink	P	P	P	P	P			
5	Body (YJLED -001A-S12RG B)	Transparent encapsulation material (soft)		P	P	P	P	P		
6		LED	White plastic	P	P	P	P	P		
7		White fibre board		P	P	P	P	X	PBBs,PBDEs =N.D.	
8		Copper-colored metal wafer		P	P	P	P	/		
9		Aluminum electrolytic capacitor	Black plastic jacket with white printing		P	P	P	P	P	
10			Silvery metal cover		P	P	P	P	/	
11			Black rubber end closure		P	P	P	P	P	
12			Pin		P	P	P	P	/	
13			Capacitor anode film		P	P	P	P	/	
14			Capacitor cathode film		P	P	P	P	/	
15			Paper film		P	P	P	P	P	
16			Brown polyester capacitor	Brown encapsulation material		P	P	P	P	P
17		Capacitor film		P	P	P	P	/		
18		Pin		P	P	P	P	/		

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REPORT No. : CGZ3131230-04015-C-R1  
 DATE : Jan. 21, 2014  
 PAGE : 9 of 10

Note : P = Below Limit (Pass)  
 F = Over Limit (Fail)  
 X = Inconclusive  
 N.D. = not detected (less than MDL)  
 1mg/kg=1ppm=0.0001%  
 \* According to the declaration from client, the source of lead in the sample could be from the glass material .Lead in glass of electronic components cathode ray tubes/fluorescent tubes is exempted from the requirement of RoHS Directive (Annex ,2011/65/EU).  
 According to the declaration from client, the source of lead in the sample could be from the ceramic parts. Lead in electronic ceramic parts is exempted from the requirement of RoHS Directive (Annex ,2011/65/EU).

Remarks:

(1) Results are obtained by EDXRF for primary screening, and further chemical testing is recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321: 2008.

Element	Polymer Materials	Metallic Materials	Electronic Materials
Pb	P ≤ 500 < X < 1300 ≤ F	P ≤ 500 < X < 1300 ≤ F	P ≤ 500 < X < 1300 ≤ F
Cd	P ≤ 50 < X < 130 ≤ F	P ≤ 50 < X < 130 ≤ F	X < 130 ≤ F
Hg	P ≤ 500 < X < 1300 ≤ F	P ≤ 500 < X < 1300 ≤ F	P ≤ 500 < X < 1300 ≤ F
Cr	P ≤ 700 < X	P ≤ 700 < X	P ≤ 500 < X
Br	P ≤ 250 < X	/	P ≤ 250 < X

(2) Chemical Confirmation Result acceptable Limit:

Test items	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium (CrVI)	PBBs	PBDEs
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Acceptable Limit	1000	100	1000	1000	1000	1000

(3) The test results only apply to the materials requested by applicant.

Written by: *Amanda* Inspected by: *Annie* Approved by: *hyt*

\*\*\*End of Report\*\*\*

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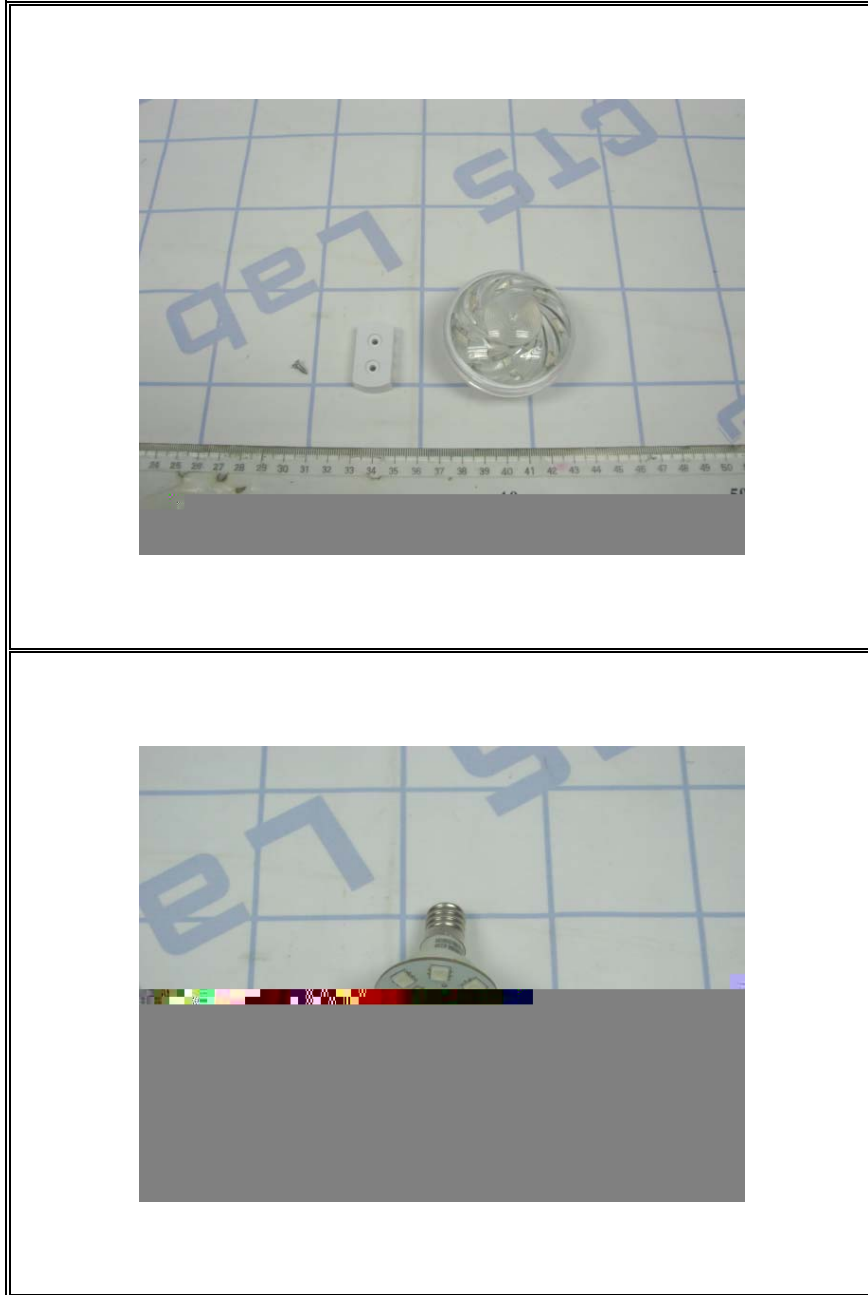
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## TEST REPORT

REPORT No. : CGZ3131230-04015-C-R1  
DATE : Jan. 21, 2014  
PAGE : 10 of 10

### 3 Sample Reference Photo



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