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.

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TEST REPORT

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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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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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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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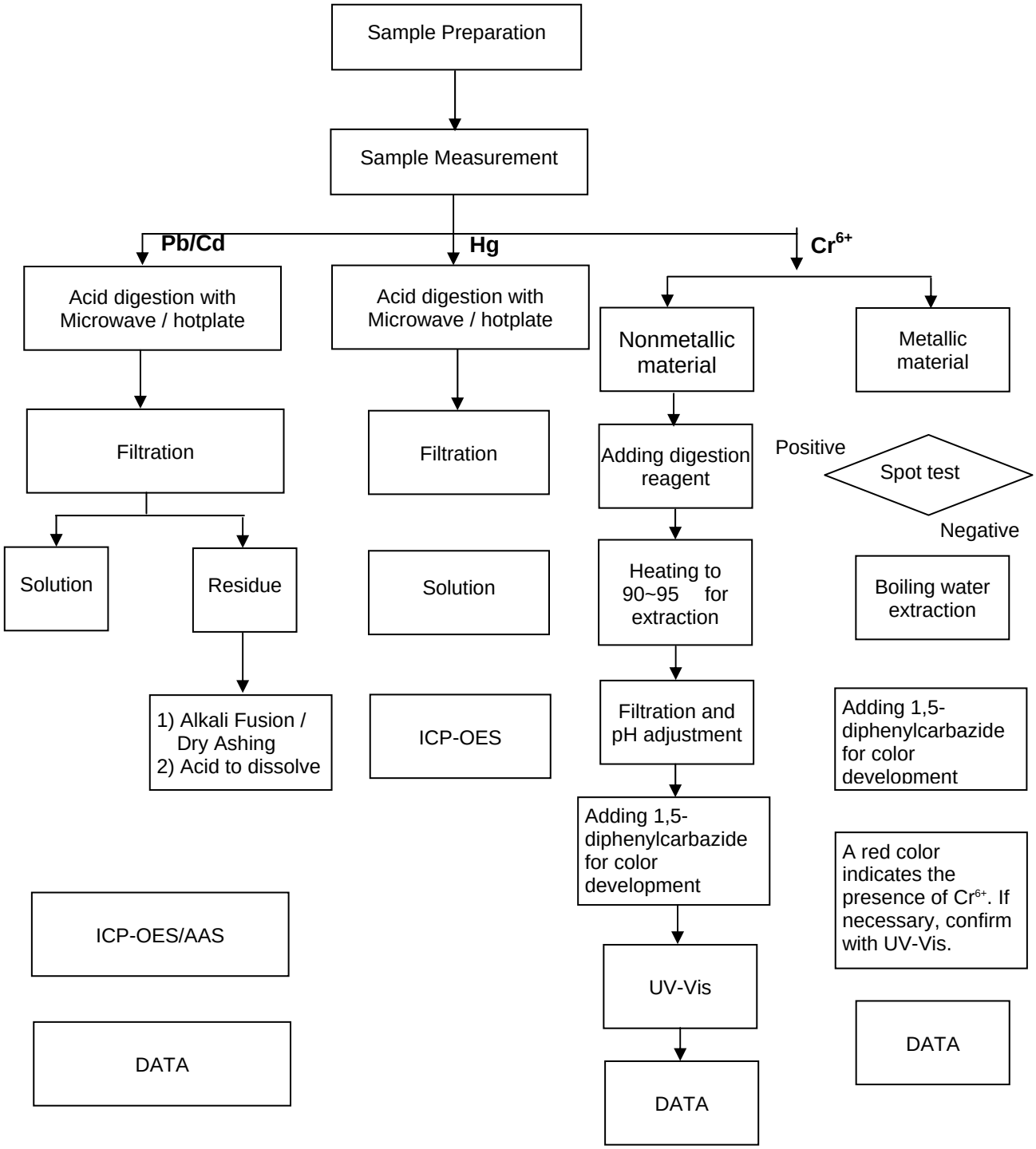
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2.5 Chemical Test Method Flow Chart



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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(YJLED-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-S12RGB)	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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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 (Cr^{VI})	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: Lyt

End of Report

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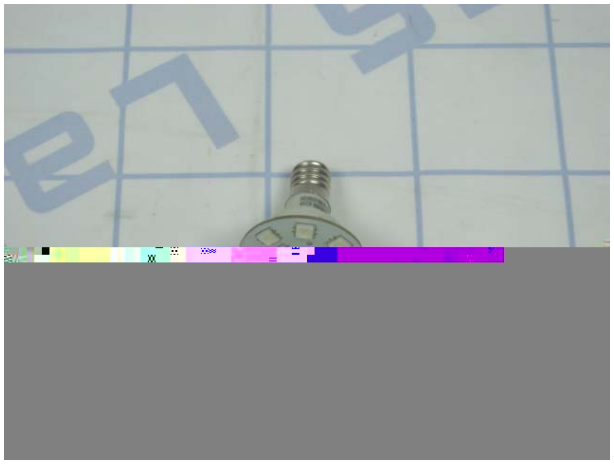
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3 Sample Reference Photo





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