Test Report

Report No.: A001R20151027024-1 Date: Nov.03, 2015 Page 1 of 11

Applicant: **USC056**

Address:

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

Sample Name: USB Booklight

Sample Model: PB-1342; LT91109

Brand Name:

Manufacturer: USC056

Address:

Sample Received Date: Oct.27, 2015

Testing Period: Oct.27, 2015 to Nov.03, 2015

Test Requested: Please refer to following page(s).

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

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

Tested by: Felix.Li	Reviewed by: Jason	Approved by: Jessie.Liang
Liwenlong, Felix.Li	Jiangyuncheng, Jason	Liangdan, Jessie.Liang
Test Engineer	Laboratory Manager	Technical Supervisor

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Test Requested:	**Conclusion**
1.As specified by client, to determine the Pb, Cd, Hg, Cr^{6+}, PBBs, PBDEs content in the submitted sample in accordance with EU RoHS Directive 2011/65/EU(RoHS) and its amendment directives on XRF and Chemical Method.	Pass
2. As specified by client, to determine the Pb and Cd content in the submitted sample in accordance with California Proposition 65.	Pass
3. As specified by client, to determine the phthalates content in the submitted sample in accordance with California Proposition 65.	Pass

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Test Results:

1. EU RoHS Directive 2011/65/EU and its amendment directives on XRF

Test method: With reference to IEC 62321 Ed 1.0, Screening by X-ray Fluorescence Spectroscopy (XRF)

Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
1	Green soft plastic shell (shell)	BL	BL	BL	BL	BL
2	White plastic shell (shell)	BL	BL	BL	BL	BL
3	White plastic lampshade (shell)	BL	BL	BL	BL	BL
4	Aluminium (shell)	BL	BL	BL	BL	-
5	White latex (shell)	BL	BL	BL	BL	BL
6	CHIP LED	BL	BL	BL	BL	BL
7	Chip resistor	BL	BL	BL	BL	BL
8	Soldering tin	BL	BL	BL	BL	-
9	PCB board (aluminium plate)	BL	BL	BL	BL	-
10	White plastic wire jacket	BL	BL	BL	BL	BL
11	Iron wire	BL	BL	BL	BL	-
12	Red enameled wire	BL	BL	BL	BL	-
13	Blue enameled wire	BL	BL	BL	BL	-
14	White hose lining	BL	BL	BL	BL	BL
15	Silver metal shell	BL	BL	BL	BL	-
16	White plastic sheet	BL	BL	BL	BL	BL
17	Silver meta lead foot	BL	BL	BL	BL	-
18	White soft plastic shell	BL	BL	BL	BL	BL
19	Black soft plastic shell	BL	BL	BL	BL	BL
20	Red soft plastic shell	BL	BL	BL	BL	BL
21	Blue soft plastic shell	BL	BL	BL	BL	BL

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Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ<X <130+3σ≤OL	BL≤70-3σ<X <130+3σ≤OL	BL≤50-3σ<X <150+3σ≤OL
Pb	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Hg	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Cr	mg/kg	BL≤700-3σ<X	BL≤700-3σ<X	BL≤500-3σ<X
Br	mg/kg	BL≤300-3σ<X	-	BL≤250-3σ<X

Note: BL= Below Limit
OL= Over limited
X= Inconclusive
"-"= Not regulated
*= Scanning by XRF and detected by chemical method. The test results of chemical method please refer to next pages.

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Remark:

i Results were obtained by XRF for primary scanning, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(Ⅵ)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the above warning value according to IEC 62321 Ed 1.0.

ii The XRF scanning test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

iii The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2011/65/EU:

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	100
Lead (Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr(Ⅵ))	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominated diphenylethers (PBDEs)	1000

Disclaimers:

This XRF Scanning report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF scanning report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

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2. Test result of Pb and Cd conent

Total Lead and Cadmium content in accessible substrate material (non-metal)

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)						Client's limit
			1-1	1-2	1-3	1-4	1-5	1-6	
Total Lead (Pb)	Refer to CPSC-CH-E1002-08.3 AAS	5	N.D.	58	N.D.	36	N.D.	N.D.	200
Cadmium (Cd)	Refer to EPA 3052-1996 AAS	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	200
Conclusion	/	/	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	/

Note: 1. MDL=Method Detection Limit
2. N.D.=Not Detected(less than method detection limit)
3. mg/kg = ppm=parts per million
4. As specified by client, only test the designated sample.

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3. Test result of phthalates conent

Unit: %,w/w

Test items	Test Method/ Equipment	MDL	Result(s)			Limit
			1-1	1-2	1-3	
Dibutyl Phthalate(DBP)	Refer to CPSC-CH-C1001-09.3 GC-MS	0.01	N.D	N.D	N.D	0.1
Benzylbutyl Phthalate(BBP)		0.01	N.D	N.D	N.D	0.1
Di-(2-ethylhexyl) Phthalate(DEHP)		0.01	N.D	N.D	N.D	0.1
Di-n-hexyl phthalate(DNHP)		0.01	N.D	N.D	N.D	0.1
Di-isononyl phthalate (DINP)		0.01	N.D	N.D	0.05	0.1
Di-isodexyl Phthalate(DIDP)		0.01	N.D	N.D	N.D	0.1
Conclusion		/	**Pass**	**Pass**	**Pass**	/
Di-n-octyl phthalate (DNOP)*		0.01	N.D	N.D	N.D	0.1

Unit: %,w/w

Test items	Test Method/ Equipment	MDL	Result(s)			Limit
			1-4	1-5	1-6	
Dibutyl Phthalate(DBP)	Refer to CPSC-CH-C1001-09.3 GC-MS	0.01	N.D	N.D	N.D	0.1
Benzylbutyl Phthalate(BBP)		0.01	N.D	N.D	N.D	0.1
Di-(2-ethylhexyl) Phthalate(DEHP)		0.01	N.D	N.D	N.D	0.1
Di-n-hexyl phthalate(DNHP)		0.01	N.D	N.D	N.D	0.1
Di-isononyl phthalate (DINP)		0.01	N.D	N.D	N.D	0.1
Di-isodexyl Phthalate(DIDP)		0.01	N.D	N.D	N.D	0.1
Conclusion		/	**Pass**	**Pass**	**Pass**	/
Di-n-octyl phthalate (DNOP)*		0.01	N.D	N.D	N.D	0.1

Note: 1. 0.1%,w/w =1000mg/kg
2. MDL=method detection limit
3. N.D.=not detected（less than method detection limit）
4. "—" =Not regulated
5. *= As specified by client, this item is extra testing, this item is not included in above test requested.
6. As specified by client, only test the designated sample.

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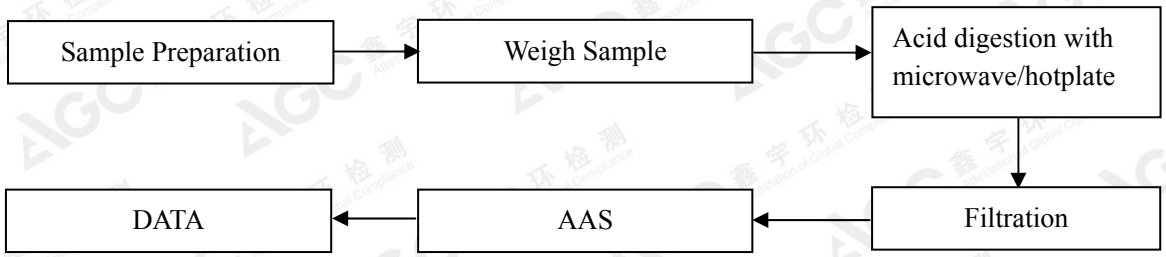
Sample Description

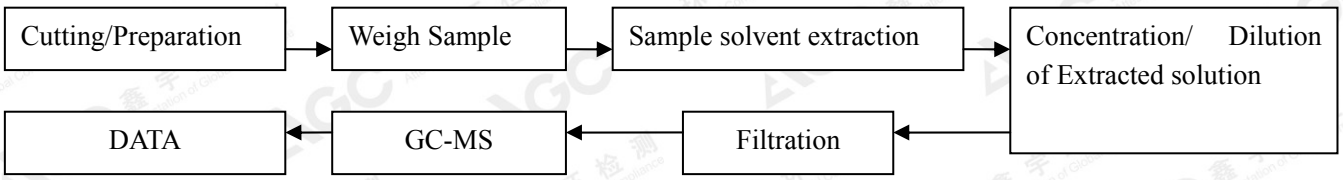
1	USB Booklight,		
1-1	White plastics	1-4	Blue soft plastic
1-2	Green soft plastic	1-5	White soft plastic
1-3	Black soft plastic	1-6	Red soft plastic

Test Flow Chart

1.For Pb & Cd



2.For phthalates



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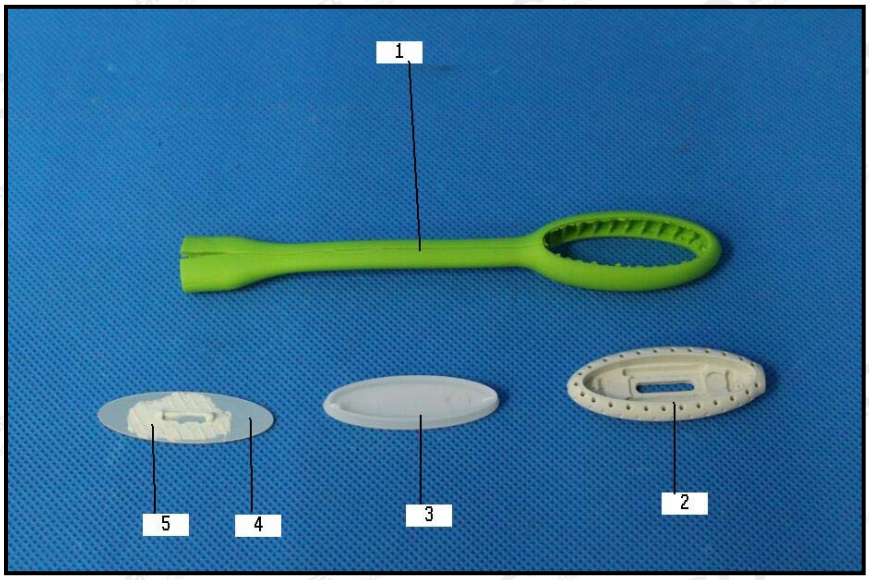
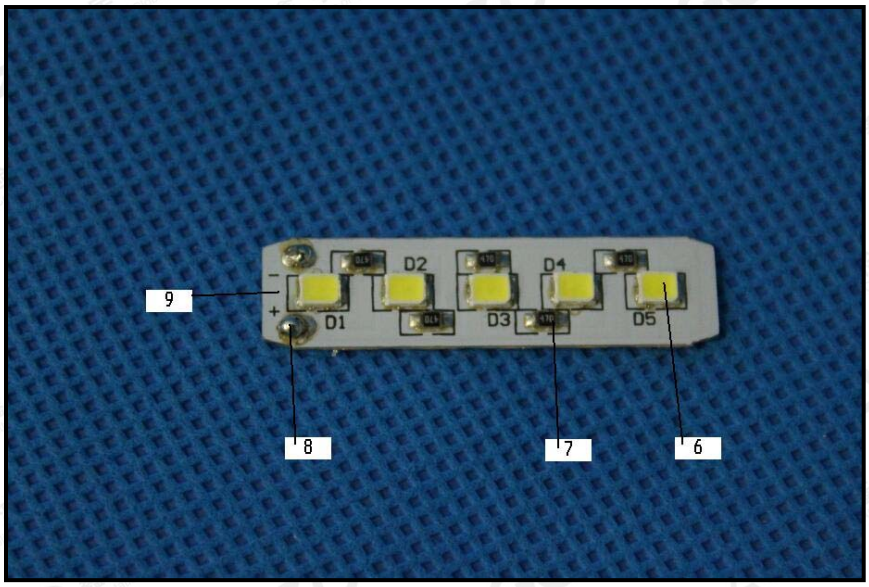
The photo of the sample





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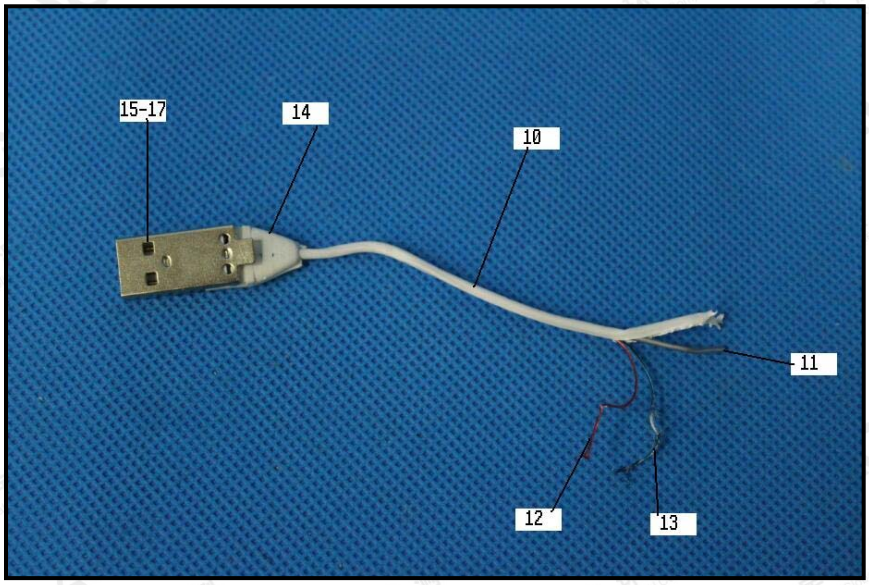

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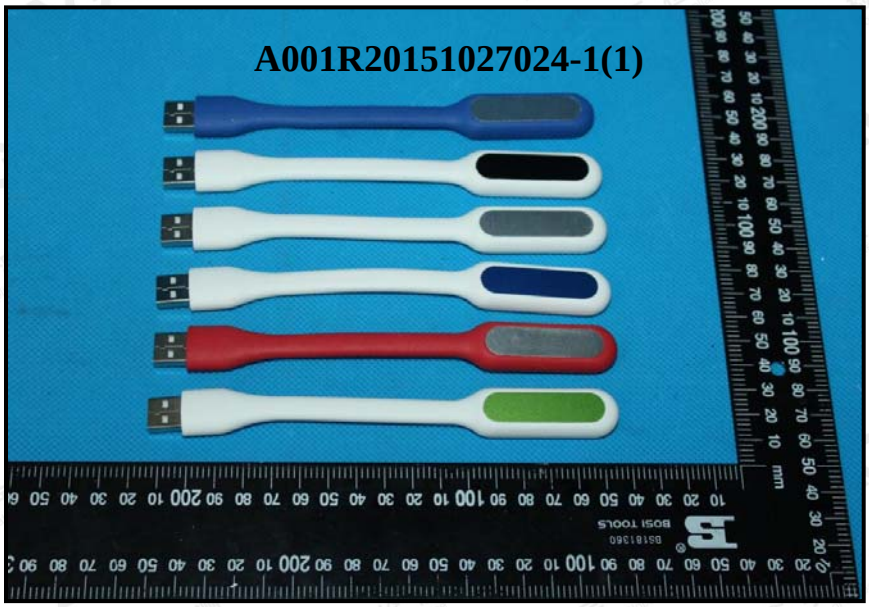
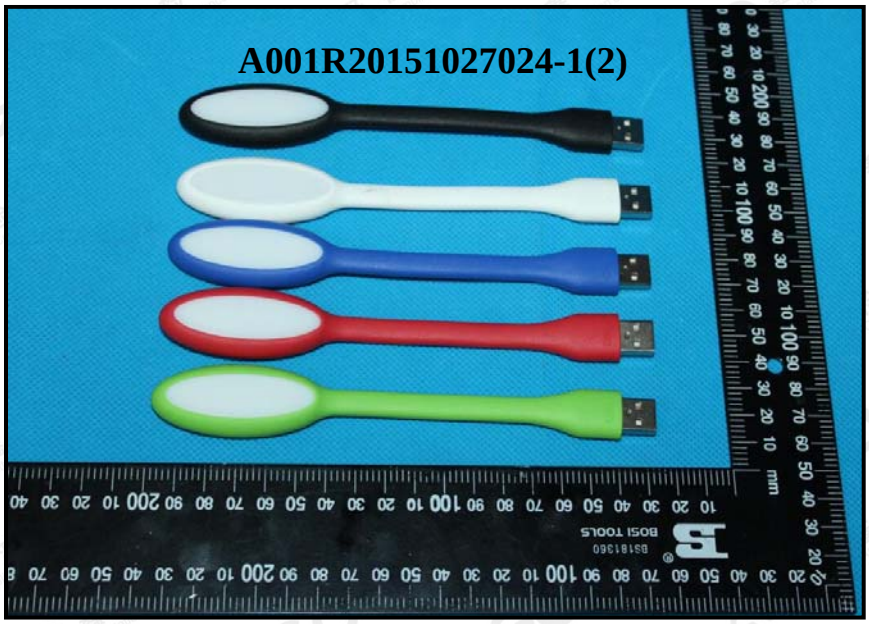


A001R20151027024-1(2)



AGC authenticate the photo only on original report

*** End of Report ***

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