

No. NGBEC1502861901

Date: 19 Aug 2015

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NINGBO DONGLONG OPTOELECTRONIC SCIENCE & TECHNOLOGY CO., LTD CENTRAL SOUTH DISTRICT, ANDONG INDUSTRIAL ZONE, CIXI CITY, NINGBO, ZHEJIANG, CHINA

Sample Name :	LED PANEL
SGS Job No. :	NP15-002141 - NB
Tested Basic Model No. :	CUBE-PL-L600W600-30-X
Date of Sample Received :	28 Jul 2015
Verification Period :	28 Jul 2015 - 19 Aug 2015
Verification Requested :	With reference to RoHS Directive 2011/65/EU recasting 2002/95/EC.
Verification Method :	Please refer to next page(s).
Verification Result :	Please refer to next page(s).
Verification Conclusion :	Based on the verification results of the submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS Directive 2011/65/EU recasting 2002/95/EC.
Note :	The test results are related only to the tested items. The report shall not be reproduced except in full without the written approval of the testing laboratory.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch

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Iris Xiao Approved Signatory



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Verification Method :

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1. With reference to IEC 62321-2:2013, review was performed for the samples disjointed from the submitted articles submitted by the Applicant

2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in the report.

(1) With reference to IEC 62321-3-1: 2013, screening by EDXRF Spectroscopy (2) Wet Chemical Test Method:

a. With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.

b. With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.

c. With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.

d. With reference to IEC 62321:2008, determination of Hexavalent Chromium by spot test / Colorimetric Method using UV-Vis.

e. With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.



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In accordance with the result of material risk assessment, the following disjointed parts in the submitted sample have been verified.

Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
1	CUBE-PL-L600W600-30-		Pb	BL		Comply	28 Jul 2015
	X-Silvery metal pin		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs				
			PBDEs				
2	CUBE-PL-L600W600-30-		Pb	BL		Comply	28 Jul 2015
	X-Black plastic		Cd	BL		Comply	
	bracket(joint)		Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
3	CUBE-PL-L600W600-30-		Pb	BL		Comply	28 Jul 2015
	X-Silvery metal		Cd	BL		Comply	
	shell(joint)		Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs				
			PBDEs				
4	CUBE-PL-L600W600-30-		Pb	BL		Comply	28 Jul 2015
	X-Black plastic shell(joint)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	



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5	CUBE-PL-L600W600-30-		Pb	BL		Comply	28 Jul 2015
	X-Black plastic		Cd	BL		Comply	
	jacket(joint)		Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
6	CUBE-PL-L600W600-30-		Pb	BL		Comply	28 Jul 2015
	X-Red plastic jacket(joint)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
7	CUBE-PL-L600W600-30-		Pb	BL		Comply	28 Jul 2015
	X-Black plastic		Cd	BL		Comply	
	jacket(joint)		Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
8	CUBE-PL-L600W600-30-		Pb	BL		Comply	28 Jul 2015
	X-Silvery metal piece		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs				
			PBDEs				



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9	CUBE-PL-L600W600-30-		Pb	BL		Comply	28 Jul 2015
	X-Silvery metal screw		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	IN	Negative	Comply	
			PBBs				
			PBDEs				
10	CUBE-PL-L600W600-30-		Pb	BL		Comply	28 Jul 2015
-	X-Silvery plastic piece		Cd	BL		Comply	20 001 20 10
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
11	CUBE-PL-L600W600-30-		Pb	BL		Comply	28 Jul 2015
	X-White plastic piece		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
12	CUBE-PL-L600W600-30-		Pb	BL		Comply	28 Jul 2015
	X-Semitransparent plastic		Cd	BL		Comply	
	piece		Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	



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13	CUBE-PL-L600W600-30-		Pb	BL		Comply	28 Jul 2015
	X-Black plastic lump		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
14	CUBE-PL-L600W600-30-		Pb	BL		Comply	28 Jul 2015
	X-Black plastic		Cd	BL		Comply	
	jacket(wire)		Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
15	CUBE-PL-L600W600-30-		Pb	BL		Comply	28 Jul 2015
	X-Red plastic jacket(wire)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
16	CUBE-PL-L600W600-30-		Pb	BL		Comply	28 Jul 2015
	X-White plastic		Cd	BL		Comply	
	jacket(wire)		Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	



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17 -C	CUBE-PL-L600W600-30-		Pb	BL		Comply	28 Jul 2015
	X-Silvery metal soldering		Cd	BL		Comply	18 Aug 2015
	tin		Hg	BL		Comply	107 kg 2010
			Cr(VI)	BL		Comply	
			PBBs				
			PBDEs				
18	CUBE-PL-L600W600-30-		Pb	BL		Comply	28 Jul 2015
	X-White PCB body		Cd	BL		Comply	20 001 20 10
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
19	CUBE-PL-L600W600-30-		Pb	BL		Comply	28 Jul 2015
	X-White coating		Cd	BL		Comply	20 001 20 10
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
20	CUBE-PL-L600W600-30-		Pb	BL		Comply	28 Jul 2015
	X-Silvery metal base		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs				
			PBDEs				



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Remark :

- (1) (a) There are the results on total Br while test items on restricted substances are PBBs and PBDEs. There is the result on total Cr while test item on restricted substances is Cr(VI).
  - (b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC62321-3-1:2013 (unit: mg/kg).

Element	Polymer	Metal	Composite Materials
Cd	BL ≤(70-3σ)< X <(130+3σ)≤OL	BL ≤(70-3σ)< X <(130+3σ)≤OL	LOD < X <(150+3σ)≤ OL
Pb	BL ≤(700-3σ)< X<(1300+3σ)≤ OL	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(500-3σ)< X<(1500+3σ)≤ OL
Hg	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	$BL \leq (500\text{-}3\sigma) < X < (1500\text{+}3\sigma) \leq OL$
Br	BL ≤ (300-3σ)< X		BL ≤ (250-3σ)< X
Cr	BL ≤ (700-3σ)< X	BL ≤ (700-3σ)< X	BL ≤ (500-3σ)< X

- (c) BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection, -- = Not regulated.
- (d) The XRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- (2) (a) mg/kg = 0.0001%, MDL = Method detection Limit, ND = Not Detected (<MDL), --- = Not conducted,</li>
  = Without BOM.
  - (b) Unit and MDL in wet chemical test

Test Item	Pb	Cd	Hg
Unit	mg/kg	mg/kg	mg/kg
MDL	10	10	10

The MDL for single compound of PBBs and PBDEs is 100 mg/kg, MDL of Cr(VI) for polymer and composite sample is 10 mg/kg.

(c) According to IEC 62321:2008, result on Cr(VI) for metal sample is shown as Positive/Negative. Negative = Absence of Cr(VI) coating, Positive = Presence of Cr(VI) coating.



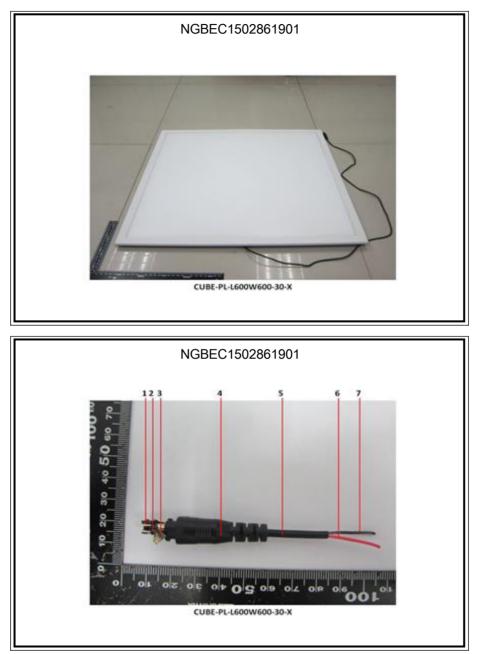
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Sample photo:



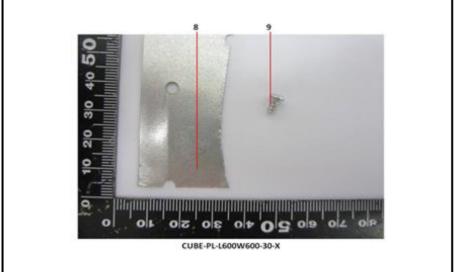


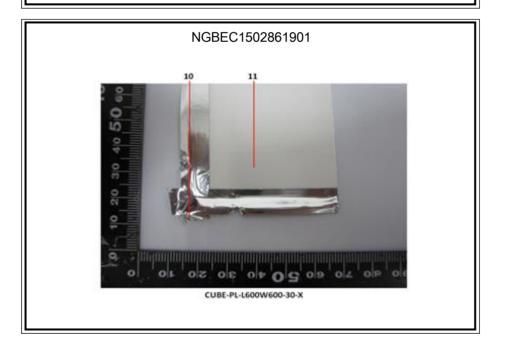
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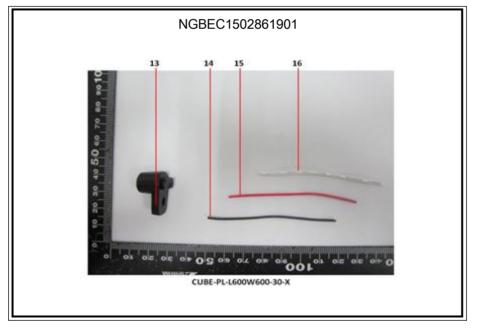


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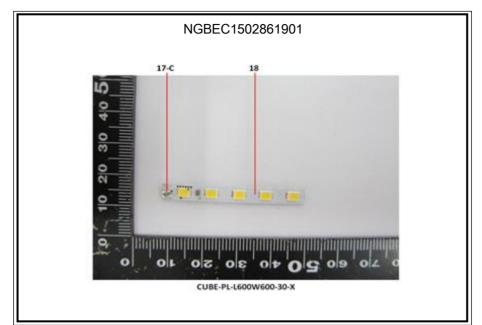


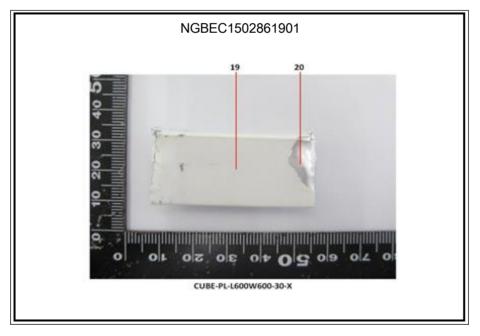
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