

Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an District, Shenzhen, Guangdong, China

Tel: (86)755-82591330

Fax: (86)755-82591332

Internet: Http://www.LCS-cert.com

Report No.: LCS1605252316R

# TEST REPORT

Client company : Shenzhen Better Technology Limited

Client address : Floor 4<sup>th</sup>, Building F, Fusen Technology Park, Hangcheng Road, Gushu, Xixiang, Bao'an, Shenzhen, China

Report on the submitted samples said to be:

Sample Name : High Voltage SMD LED Strip Light

Trade Mark : BET

Style/ Item No. : YH-HRFAB220S-X (A stand for LED quantity as 15, 30, 44, 60, 72, 90..... B stand for LED type 2835, 3528, 5050, 5630, 3014, 3030 ..... X stand for color: R, G, B, W, WW, Y, P, O, RGB, RGBW, RGBWW. It means Red, Green, Blue, White, Warm white, Yellow, Purple, Orange, RGB, RGBW, RGBWW color.)

Sample Receiving Date : May 25, 2016

Testing Period : May 25, 2016 ~ Jun 01, 2016

Results : Please refer to next page(s).

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**Summary of Test Results:**

**TEST REQUEST**

A EU RoHS Directive 2011/65/EU and its amendment directives

**CONCLUSION**

**PASS**

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Signed for and on behalf of LCS

Written By:

Lolo Yang  
Lolo Yang  
File administrators

Approved by:

Hart Qiu  
Hart Qiu  
Manager

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**Results:**

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

Test method: With reference to IEC 62321 Ed 1.0:2013, Screening by X-ray Fluorescence Spectroscopy (XRF)

| Seq. No. | Tested Part(s)                          | Results |    |    |    |    |
|----------|---|---------|----|----|----|----|
|          |   | Pb      | Cd | Hg | Cr | Br |
| <b>A</b> | <b>High Voltage SMD LED Strip Light</b> |         |    |    |    |    |
| 1        | White plastic shell                     | BL      | BL | BL | BL | BL |
| 2        | Transparent plastic                     | BL      | BL | BL | BL | BL |
| 3        | White plastic line                      | BL      | BL | BL | BL | BL |
| 4        | Copper line                             | BL      | BL | BL | BL | BL |
| 5        | Silvery metal                           | BL      | BL | BL | BL | BL |
| 6        | Screw                                   | BL      | BL | BL | BL | BL |
| 7        | White plastic                           | BL      | BL | BL | BL | BL |
| 8        | Golden metal                            | BL      | BL | BL | BL | BL |

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Note:

- i Results were obtained by XRF for primary screening, 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 below warning value according to IEC 62321 Ed 1.0:2013.

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

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Note:

BL = Below Limit

OL = Over Limit

X = Inconclusive

- ii The XRF screening 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)<br>(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 Screening 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 screening 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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## Appendix

### Photograph of Sample



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LCS authenticate the photo on original report only

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