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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3723-2013

Test method of radiation of laser and light emitting diode in toys

装有激光器和发光二极管玩具辐射的检测方法

(English Translation)

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

Please note that some of the content of this document may involve patents. Distribution of this document Institutions do not assume the responsibility to identify these patents.

This standard is proposed and managed by the National Certification and Accreditation Administration Committee.

This standard was drafted. SZCIQ Toy Testing Center, Shenzhen Inspection and Quarantine Science Research Institute, Shenzhen Department of Czech Republic Articles Electronics Co., Ltd. Shenzhen Bao'an branch Dinuo Wei, CSTC Standards Service (Guangzhou) Co., Ltd., Guangzhou days Cheung Technology Services Limited, Guangdong Entry-Exit Inspection and Quarantine Technology Center, Guangzhou CVC Detection Technology Limited.

1 Scope

This standard specifies the test methods for electrical toys lasers and light-emitting diode radiation measuring optical power meter.

This standard applies to electrical toys lasers and light-emitting diodes radiation testing.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB 19865-2005 electrical safety of toys IEC 60384-14 Fixed capacitors for use in electronic equipment - Part 14. Sectional specification Fixed electromagnetic interference suppression capacitors IEC 60825-1:1993 A1 A2 (including errata) Safety of laser products - Part 1. Equipment Classification, Requirements and User's Guide IEC 62115:2003 A1.2004 A2.2010 Safety of toys - electric EN62115:2005 A2.2011 Safety of toys - electric

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3 Terms, definitions and symbols

IEC 62115 and IEC 60825-1:1993 A1 A2 (including corrections) and specified in the following terms, definitions and symbols apply to this file.

Transparent light-emitting diode Packaging materials transparent light-emitting diode, the human eye can see light emitting diode chip packaging material inside.

Opaque light-emitting diode untransparentlightemittingdiode Packaging materials opaque light-emitting diode, the human eye can not see the light emitting diode chip packaging material inside.

Irradiation time exposuretime Single pulse, burst or continuous laser radiation to the duration of the human body.

For a single pulse, pulse duration refers to the leading edge and the trailing half-power points between the half-power points. For the burst, the first leading pulse means A power peak highs and last a half-duration peak power point.

Magnification amplificationfactor Mlambda Wavelength lambda than the image size of the apparent source of the apparent size of the light source.

Pc.t

Pc.t for the continuous heat radiated power light emitting diode harm.

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