

Test Report

Number: GZHH00370921

Applicant: MAY CHEONG TOY PRODUCTS FTY LTD
UNIT 901-2, 9/F., EAST OCEAN CENTRE,
98 GRANVILLE ROAD, TSIMSHATSUI EAST,
KOWLOON, HONG KONG

Date: Jul 17, 2020

Attn: ICY HUANG

Sample Description:

Two (2) sets of submitted sample said to be :

Item Name : **1:6 R/C Off-Road Rock Fighter**
Item No. : **81324(14023 /15932)**
Client's Reference Item Name : XS Runner, 1:6 R/C Ford Raptor, 28" RC 2020 Jeep Gladiator,
28" RC Police Car, 22" Ferrari 488 GTB, 1/24 RC Premium,
1/24 RC Premium – MB Glass,
1/24 RC Premium – Lamborghini Terzo Millennium,
24 RC Premium – Bugatti DIVO, 1/24 RC Premium – Ferrari SF90 Stradale,
1/24 RC Premium – Ford GT, 1/24 RC Premium – Red Bull Racing RB15,
1/24 RC Premium – Mercedes Benz Pertronas F1 W10 EQ W10+,
1/24 RC Premium – Ferrari SF1000

Client's Reference Item No. : 81153(15903), 81601/81603/81604, 82133(14167) / 82134/82135/82136/
82137/82138, 82330/82331/82332/82333/82334(18892)/82335/82336/82337/
82338/82339/82340/82341/82342/82343/82344/82351/82352/82353

Labelled Age Group : "8+"
Applicant Specified Age : Over 8 years
Grading for Testing :
Packaging Provided by Applicant : Yes
Country of Origin : China


Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

Conclusion:

The tested sample was tested and found to comply with EN 60825-1:1994 + A1:2002 + A2:2001 Class 1 LED Product.

Authorized by:
For Intertek Testing Services Shenzhen Ltd.
Guangzhou Branch, Hardlines


Victor T.J. Wang
Assistant General Manager



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1 Safety of Laser Products

As per European Standard EN 60825-1:1994 + A1:2002 + A2:2001 on Safety of Laser Product Part 1: Equipment Classification, Requirements and User's Guide-Section Two: Manufacturing Requirements.

Classification of the laser product	
Laser and/or LED product class for which the equipment is assigned :	Class 1 LED product
Laser and/or LED product class of the equipment :	--
Laser and/or LED product class of the embedded laser/LED :	--
Test specification	
Test procedure :	Testing (Laser classification only)
Test case verdicts	
Test case does not apply to the test object ... :	N/A
Test item does meet the requirement :	Pass
General product information:	
In normal operation, the vehicle is operated by 1 piece "700mAh 6.4V" rechargeable battery, the transmitter is operated by 2 pieces "AA" batteries.	

Clause	Requirement – Test	Result – Remark	Verdict
4	Engineering Specifications		N/A
5	Labelling		N/A
6	Other Informational Requirements		N/A
7	Additional Requirements for Specific Laser Products		N/A
8	Classification (Normal Condition)		Pass
8.4	Classification rules		Pass
	Applicable condition/s	Condition 2	Pass
8.4e	Time base used	100s for Class 1 limits;	Pass



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Clause	Requirement – Test	Result – Remark	Verdict
	Calculations and limits: 1. Ø3mm red LED in the vehicle: Measured wavelength: 671.1 nm Measured thermal power: 3.79 µW AEL(1) for retinal thermal hazard: 3146.66 µW 2. Ø5mm red LED in the transmitter: Measured wavelength: 668.1 nm Measured thermal power: 4.33 µW AEL(1) for retinal thermal hazard: 4962.51 µW		Pass
8.4f	Repetitively pulsed or modulated lasers	Continuous	N/A
	Calculations and limits		N/A
	AEL for continued operation used		N/A
	Total-on-time-pulse (TOTP) method used		N/A
9	Measurements for Classification (Normal Condition)		Pass
9.1	Tests		Pass
9.2	Measurement conditions		Pass
	Measured laser radiation	a,b,c,d,e,f,g	—
9.3	Measurement geometry		Pass
	a) aperture diameter (mm)	7mm	Pass
	b) measurement distance (mm)	Thermal hazard: 1. 36.6 mm for Ø3mm red LED in the vehicle 2. 46.5 mm for Ø5mm red LED in the transmitter	Pass
	c) angle of acceptance γ		Pass
	i) photochemical limits	11mrad (at t = 100s)	NA
	ii) all other limits	100mrad	Pass
8	Classification (Fault Condition)		Pass
8.4	Classification rules		Pass
	Applicable condition/s	Condition 2	Pass
8.4e	Time base used	100s for Class 1 limits;	Pass



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Clause	Requirement – Test	Result – Remark	Verdict
	Calculations and limits: 1. Ø3mm red LED in the vehicle: Measured wavelength: 671.1 nm Measured thermal power: 6.38 µW AEL(1) for retinal thermal hazard: 3146.66 µW 2. Ø5mm red LED in the transmitter: Measured wavelength: 668.1 nm Measured thermal power: 7.62 µW AEL(1) for retinal thermal hazard: 4962.51 µW		Pass
8.4f	Repetitively pulsed or modulated lasers	Continuous	N/A
	Calculations and limits		N/A
	AEL for continued operation used		N/A
	Total-on-time-pulse (TOTP) method used		N/A
9	Measurements For Classification (Fault Condition)		Pass
9.1	Tests		Pass
9.2	Measurement conditions		Pass
	Measured laser radiation	a,b,c,d,e,f,g	—
9.3	Measurement geometry		Pass
	a) aperture diameter (mm)	7mm	Pass
	b) measurement distance (mm)	Thermal hazard: 1. 36.6 mm for Ø3mm red LED in the vehicle 2. 46.5 mm for Ø5mm red LED in the transmitter	Pass
	c) angle of acceptance γ		Pass
	i) photochemical limits	11mrad (at t = 100s)	NA
	ii) all other limits	100mrad	Pass

Date sample received: Jul 03, 2020
 Testing period: Jul 03, 2020 to Jul 16, 2020



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End of report

The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019 (Non-binary acceptance based on guard band $w = U$) except designation from the customer, regulation or test specification.

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