

West Coast Imports, Inc.

MPE ASSESSMENT REPORT

Report Type:
FCC MPE assessment report

Model:
FLSL75204

REPORT NUMBER:
240300805HAN-002

ISSUE DATE:
July 5, 2024

DOCUMENT CONTROL NUMBER:
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TEST REPORT

Report no.: 240300805HAN-002

Applicant: West Coast Imports, Inc.

6000 Bandini Boulevard Commerce California, 90040, USA

Manufacturer: West Coast Imports, Inc.

6000 Bandini Boulevard Commerce California, 90040, USA

Factory:

1. Ningbo Huanya Electronics Co., Ltd
Floor 3, Building 1, NO.288 West Zhihe Road, Chunxiao Town, Beilun
District NINGBO CITY, Zhejiang 315800, China
2. HUANYA ELECTRONICS (THAILAND) CO.,LTD.
45/5 Moo3 Nong SAM SAK, BanBung Chonburi, Thailand 20170

FCC ID: 2BF57-FLSL75204

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

KDB447498 D01 General RF Exposure Guidance v06

FCC Part2.1091, FCC Part2.1093, FCC Part1.1307(b)

PREPARED BY:

Project Engineer
Offa Zhou

REVIEWED BY:

Reviewer
Wakeyou Wang



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Revision History

Report No.	Version	Description	Issued Date
240300805HAN-002	Rev. 01	Initial issue of report	July 5, 2024

TEST REPORT**GENERAL INFORMATION****Description of Equipment Under Test (EUT)**

Product name:	5000 Lumen Linkable Light
Type/Model:	FSL75204
Description of EUT:	The EUT covered in the report is LED lights with mechanical switch, suitable for dry and damp location use only, which has a transceiver with HF system 5.8GHz. Therefore, this model was tested.
Rating:	120VAC, 60Hz Receptacle: Max. 120VAC, 6A
Category of EUT:	Class B
EUT type:	<input checked="" type="checkbox"/> Table top <input type="checkbox"/> Floor standing
Software Version:	/
Hardware Version:	/
Sample received date:	March 25, 2024
Date of test:	April 6, 2024 ~ May 25, 2024

Technical Specification

Channel Frequency:	5780MHz
Modulation:	FSK
Channel Number:	1
Support Standards:	SRD
Antenna type	PCB antenna

TEST REPORT**Description of Test Facility**

Name:	Intertek Testing Services Shanghai
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L0139
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Member No: 3598 (Registration No.: R-14243, G-10845, C-14723, T-12252)
	A2LA Accreditation Lab Certificate Number: 3309.02

TEST REPORT**MPE Assessment****Test result:** **PASS****MPE Assessment Limit**

According to §1.1310, the limit for general population/uncontrolled exposures

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

F=Frequency in MHz; *Plane-wave equivalent power density

TEST REPORT**Assessment Results**

Power density (S) is calculated according to the formula:

$$S = P / (4\pi R^2)$$

Where S = power density in mW/cm²

P = Radiated transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

As we can see from the test report 240300805HAN-001:

$$72.60\text{dBuV/m} @ 3\text{m}, @ 20\text{cm} = @ 3\text{m} + 20\log(3/0.2) = 96.12\text{dBuV/m} = 0.86\text{dBm} = 1.2\text{mW}$$

Here R is chosen to be 20cm, so the maximum rate of MPE is,

$$S = P / (4\pi R^2) = 1.2 / (4 * 3.14 * 20 * 20) = 0.0002\text{mW/cm}^2 < 1\text{mW/cm}^2$$

TEST REPORT**Appendix I**

Definition below must be outlined in the User Manual:

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.

***** END *****