

RF Exposure Evaluation Report

Product : Projector night lamp
Trade mark : N/A
Model/Type reference : YHY-07, YHY-08, YHY-09, YHY-10
Serial Number : N/A
Report Number : EED32Q82035903
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Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091
47 CFR Part 2.1093
KDB 447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

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1 Version

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3 General Information

3.1 Client Information

Applicant:	Shenzhen Anshun Chang Technology Co., Ltd
Address of Applicant:	602, Building 11, Binhe New Village, Nanyuan Street, Futian District, Shenzhen
Manufacturer:	Shenzhen Anshun Chang Technology Co., Ltd
Address of Manufacturer:	602, Building 11, Binhe New Village, Nanyuan Street, Futian District, Shenzhen
Factory:	Shenzhen Anshun Chang Technology Co., Ltd
Address of Factory:	602, Building 11, Binhe New Village, Nanyuan Street, Futian District, Shenzhen

3.2 General Description of EUT

Product Name:	Projector night lamp
Model No.(EUT):	YHY-07, YHY-08, YHY-09, YHY-10
Test Model No.:	YHY-07
Trade Mark:	N/A

3.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz
Modulation Type:	BLE: GFSK BT: GFSK, $\pi/4$ DQPSK, 8DPSK
Test Power Grade:	Default
Test Software of EUT:	FCC_assist_1.0.2.2
Antenna Type:	PCB Antenna
Antenna Gain:	-0.58dBi
Power Supply:	DC 5V 2A
Sample Received Date:	Dec. 16, 2024
Sample tested Date:	Dec. 16, 2024 to Dec. 23, 2024

Remark:

Model No.: YHY-07, YHY-08, YHY-09, YHY-10

Only the model YHY-07 was tested. PCB and layout, only the model name, YHY-07 and YHY-08, YHY-09, YHY-10 are different for subtle shapes. See below for details.

(Optional):

Model	shape
YHY-07	Astronauts holding stars in their arms
YHY-08	Astronauts hold the moon in their arms
YHY-09	Astronauts hold the rocket in their arms
YHY-10	Astronauts hold the airplane in their arms

3.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

3.7 Other Information Requested by the Customer

None.

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

4.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

4.1.3 EUT RF Exposure Evaluation

For Stand alone:

BLE:

Frequency (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
@2.4GHz	20	-2.17	-0.58	-4.32	0.3698	3060	0.0001	Pass

BT

Frequency (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
@2.4GHz	20	-0.43	-0.58	-2.58	0.5521	3060	0.0002	Pass

Note:

- ① EIRP=conducted power+antenna gain;
- ② ERP=EIRP-2.15;
- ③ EIRP(dBm) = Field strength of the fundamental signal(dBuV/m@3m) – 95.23;
- ④ $ERP(mW) = 10^{(ERP(dBm)/10)}$;
- ⑤ The estimation distance is 0.5cm;
- ⑥ The test data please refer to the report of EED32Q82035901, EED32Q82035902 and only the worst case data was recorded in the report.

声明

Statement

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*** End of Report ***