

RF Exposure Evaluation Report

Product : Projector
Trade mark : N/A
Model/Type reference : YL03B, YL03B PRO, YL03A, YL02, YL05, YL06
Serial Number : N/A
Report Number : EED32R80871905
FCC ID : 2BR8O-YL03
Date of Issue : Nov. 17, 2025
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091
KDB 447498 D04 Interim General RF Exposure Guidance v01
Test result : PASS

Prepared for:

YYZK(ShenZhen) technology CO.,LTD
No. 602, Building A, 6th Dongfu Industrial Zone, Kukeng Community,
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2 General Information

2.1 Client Information

Applicant:	YYZK(ShenZhen) technology CO.,LTD
Address of Applicant:	No. 602, Building A, 6th Dongfu Industrial Zone, Kukeng Community, Guanlan Street, Longhua District, Shenzhen
Manufacturer:	YYZK(ShenZhen) technology CO.,LTD
Address of Manufacturer:	No. 602, Building A, 6th Dongfu Industrial Zone, Kukeng Community, Guanlan Street, Longhua District, Shenzhen
Factory:	YYZK(ShenZhen) technology CO.,LTD
Address of Factory:	No. 602, Building A, 6th Dongfu Industrial Zone, Kukeng Community, Guanlan Street, Longhua District, Shenzhen

2.2 General Description of EUT

Product Name:	Projector
Model No.:	YL03B, YL03B PRO, YL03A, YL02, YL05, YL06
Test Model No.:	YL03B
Trade mark:	N/A

2.3 Product Specification subjective to this standard

Frequency Range:	BLE/BT: 2402MHz~2480MHz 2.4G Wi-Fi: IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz 5G Wi-Fi: U-NII-1: 5150-5250MHz U-NII-3:5745-5825MHz	
Modulation Type:	BLE: GFSK BT: GFSK, $\pi/4$ DQPSK, 8DPSK 2.4G Wi-Fi: IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g :OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20) : OFDM (64QAM, 16QAM,QPSK, BPSK) 5G Wi-Fi: IEEE 802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11n(HT20/HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11ac(VHT20/VHT40): OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) IEEE 802.11ax(HE20/HE40): OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM,1024QAM) (only Full RU supported in 802.11ax)	
Test Power Grade:	Default	
Test Software of EUT:	Cmd.exe	
Antenna Type:	FPC antenna	
Antenna Gain:	BLE/ BT/ 2.4G Wi-Fi: 2.17dBi 5G Wi-Fi: 3.84 dBi	
Power Supply:	Adapter:	AC 120V
Sample Received Date:	Sep. 10, 2025	

Sample tested Date:	Sep. 10, 2025 to Oct. 22, 2025
Remark: Model: YL03B, YL03B PRO, YL03A, YL02, YL05, YL06 Only the model YL03B was tested. We the undersigned hereby confirm that any of our production units bearing the following all models are identical, except for model name and appearance(Only color and logo)	

2.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Hongwei Industrial Park, Zone 70, Bao'an District, Shenzhen, Guangdong, China

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

No tests were sub-contracted.

FCC Designation No.: CN1164, Test Firm Registration No.: 260439

2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None.

2.7 Other Information Requested by the Customer

None.

3 SAR Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 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 P_{th} (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). P_{th} 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 $ERP_{20 \text{ cm}}$ 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.

3.1.2 Test Procedure

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

3.1.3 EUT RF Exposure Evaluation

For Stand alone:

Freq. (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
@BLE	20	7.38	2.17	7.4	5.50	3060.00	0.0018	Pass
@BT	20	7.37	2.17	7.39	5.48	3060.00	0.0018	Pass
@2.4G Wi-Fi	20	12.23	2.17	12.25	16.79	3060.00	0.0055	Pass
@5G Wi-Fi	20	12.67	3.84	14.36	27.29	3060.00	0.0089	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) = $10^{(ERP \text{ (dBm)}/10)}$;

⑤ The estimation distance is 20cm;

⑥ The test data please refer to the report of EED32R80871901, EED32R80871902, EED32R80871903, EED32R80871904 and only the worst case data was recorded in the report.

For Simultaneous Transmission:

As MPE ratio (BLE+2.4G Wi-Fi+5G Wi-Fi)=0.0018+0.0055+0.0089=0.0162 < 1, it's deemed to fulfil the RF exposure requirement.

Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;
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*** End of Report ***