

RF Exposure Evaluation Report

Product : Smart Projector
Trade mark : TOUMEI
Model/Type reference : S7, S1, S2, S3, S5, S6, S8, S9, S10,
S11, S12, S13, S14, S15, S16, S17,
S18, S19, S20, S21, S22, M2, M3,
M5, M6, M7, M8, M9
Serial Number : N/A
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FCC ID : 2BCE6-S7
Date of Issue : Oct. 29, 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:

SHENZHEN TOUMEI TECHNOLOGY CO., LTD
502 Building A, Jinke Industrial Park, No.310, Luhua Community Guanhu
St., Longhua District, Shenzhen, China 518110

Prepared by:

Centre Testing International Group Co., Ltd.
Hongwei Industrial Park, Zone 70, Bao'an District,
Shenzhen, Guangdong, China
TEL: +86-755-3368 3668
FAX: +86-755-3368 3385



Compiled by:

Lucas Lu

Lucas Lu

Approved by:

Aaron Ma

Aaron Ma

Reviewed by:

Keven Tan

Keven Tan

Date:

Oct. 29, 2025

Check No.: 3902260825

1 Contents

	Page
1 CONTENTS	2
2 GENERAL INFORMATION	3
2.1 CLIENT INFORMATION	3
2.2 GENERAL DESCRIPTION OF EUT	3
2.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD	3
2.4 TEST LOCATION	5
2.5 DEVIATION FROM STANDARDS	5
2.6 ABNORMALITIES FROM STANDARD CONDITIONS	5
2.7 OTHER INFORMATION REQUESTED BY THE CUSTOMER	5
3 SAR EVALUATION	6
3.1 RF EXPOSURE COMPLIANCE REQUIREMENT	6
3.1.1 Limits	6
3.1.2 Test Procedure	6
3.1.3 EUT RF Exposure Evaluation	7

2 General Information

2.1 Client Information

Applicant:	SHENZHEN TOUMEI TECHNOLOGY CO., LTD
Address of Applicant:	502 Building A, Jinke Industrial Park, No.310, Luhua Community Guanhu St., Longhua District, Shenzhen, China 518110
Manufacturer:	SHENZHEN TOUMEI TECHNOLOGY CO., LTD
Address of Manufacturer:	502 Building A, Jinke Industrial Park, No.310, Luhua Community Guanhu St., Longhua District, Shenzhen, China 518110
Factory:	SHENZHEN TOUMEI TECHNOLOGY CO., LTD
Address of Factory:	502 Building A, Jinke Industrial Park, No.310, Luhua Community Guanhu St., Longhua District, Shenzhen, China 518110

2.2 General Description of EUT

Product Name:	Smart Projector
Model No.:	S7, S1, S2, S3, S5, S6, S8, S9, S10, S11, S12, S13, S14, S15, S16, S17, S18, S19, S20, S21, S22, M2, M3, M5, M6, M7, M8, M9
Test Model No.:	S7
Trade mark:	TOUMEI

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 IEEE 802.11n(HT40): 2422MHz to 2452MHz 5G Wi-Fi: U-NII-1: 5180-5240MHz 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 and HT40) : 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)
Test Power Grade:	Default
Test Software of EUT:	BLE/BT: WCN_Combol Tool 2.4G Wi-Fi: QATool_Dbg.exe 5G Wi-Fi: QATool_Dbg.exe
Antenna Type:	Internal Antenna
Antenna Gain:	BLE/BT: 3.39 dBi 2.4G Wi-Fi: 3.39 dBi 5G Wi-Fi: U-NII-1: 5150-5250MHz: 2.86dBi U-NII-3:5745-5825MHz: 3.28dBi

Power Supply:	Adapter:	Input:100-240V, 50/60Hz, 1.5A;Output:19V, 3.42A
	Battery:	DC 14.6 V
Sample Received Date:	Sep. 13, 2025	
Sample tested Date:	Sep. 13, 2025 to Oct. 21, 2025	
Remark: Model No.: S7, S1, S2, S3, S5, S6, S8, S9, S10, S11, S12, S13, S14, S15, S16, S17, S18, S19, S20, S21, S22, M2, M3, M5, M6, M7, M8, M9 Only the model S7 was tested, Their electrical circuit design, layout, components used and internal wiring are identical,Only the appearance color is different, the customer model name is different, the sales platform is different.		

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	5.78	3.39	7.02	5.04	3060.00	0.0016	Pass
@BT	20	-2.21	3.39	-0.97	0.80	3060.00	0.0003	Pass
@2.4G Wi-Fi	20	16.98	3.39	18.22	66.37	3060.00	0.0217	Pass
@5G Wi-Fi	20	13.84	2.86	14.55	28.51	3060.00	0.0093	Pass

Note:

- ① EIRP=conducted power+antenna gain;
- ② $ERP = EIRP - 2.15$;
- ③ $EIRP(dBm) = \text{Field strength of the fundamental signal}(dBuV/m@3m) - 95.23$;
- ④ $ERP(mW) = 10^{(ERP(dBm)/10)}$;
- ⑤ The estimation distance is 20cm;
- ⑥ The test data please refer to the report of EED32R81552401, EED32R81552402, EED32R81552403, EED32R81552404 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)=0.0016+0.0217+0.0093=0.0326 < 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 ***