

RF Exposure Evaluation Report

Product : OBE Smart Projector
Trade mark : N/A
Model/Type reference : C2D, C2D*****("*=0-9, A-Z, a-z, -,
_or any character such as a space)
Serial Number : N/A
Report Number : EED32R81471406
FCC ID : 2BRQF-C2D
Date of Issue : Sep. 10, 2025
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:

OBE TECHNOLOGY INC
595 S Green Valley Pkwy, APT 2322, Henderson, Nevada 89012,
United States

Prepared by:

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2 General Information

2.1 Client Information

Applicant:	OBE TECHNOLOGY INC
Address of Applicant:	595 S Green Valley Pkwy, APT 2322, Henderson, Nevada 89012, United States
Manufacturer:	Shenzhen Orange Digital Technology Co.,Ltd.
Address of Manufacturer:	Room 2305, Building 2, Phase 6, Vanke Yuncheng, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen, Guangdong Province, P.R. China
Factory:	Chuzhou OBE Digital Technology Co.,LTD
Address of Factory:	Floor 3th,building 21& building 7, Zhaoyang Industrial Park, 801 century avenue, Chuzhou city, Anhui Province, P.R. China

2.2 General Description of EUT

Product Name:	OBE Smart Projector
Model No.:	C2D, C2D*****("*"=0-9, A-Z, a-z, -, _ or any character such as a space)
Test Model No.:	C2D
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 IEEE 802.11n(HT40): 2422MHz to 2452MHz 5G Wi-Fi: U-NII-1: 5150-5250MHz U-NII-2A: 5250-5350MHz U-NII-2C:5470-5725MHz 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/VHT80): OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) IEEE 802.11ax(HE20/HE40/HE80): OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM,1024QAM)
Test Power Grade:	Default
Test Software of EUT:	SecureCRT.exe
Antenna Type:	Internal Antenna
Antenna Gain:	BLE/BT: 5.16dBi

	2.4G Wi-Fi: 3.96dBi 5G Wi-Fi: U-NII-1: 5150-5250MHz 3.39dBi U-NII-2A: 5250-5350MHz 3.6dBi U-NII-2C:5470-5725MHz 5.75dBi U-NII-3:5745-5825MHz 4.38dBi	
Power Supply:	Adapter:	Input:AC 100V-240V~50/60Hz 2A,Output:DC 19V/6.3A
Sample Received Date:	Aug. 26, 2025	
Sample tested Date:	Aug. 26, 2025 to Sep. 01, 2025	
Remark: Model No.: C2D, C2D*****("*=0-9, A-Z, a-z, -, _or any character such as a space) Only the model C2D was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being color of appearance and model name.		

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

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:

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	-0.72	5.16	2.29	1.6943	3060	0.00055	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	-5.89	5.16	-2.88	0.5152	3060	0.00017	Pass

2.4G Wi-Fi:

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	13.77	3.96	15.58	36.1410	3060	0.01181	Pass

5G Wi-Fi:

Frequency (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
@5GHz U-NII-1	20	11.66	3.39	12.9	19.4984	3060	0.00647	Pass
@5GHz U-NII-2A	20	11.50	3.6	12.95	19.7242	3060	0.00645	Pass
@5GHz U-NII-2C	20	11.92	5.75	15.52	35.6451	3060	0.01165	Pass
@5GHz U-NII-3	20	12.48	4.38	14.71	29.5801	3060	0.00967	Pass

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Note:

- ① EIRP=conducted power+antenna gain;
- ② ERP=EIRP-2.15;
- ③ $\text{EIRP(dBm)} = \text{Field strength of the fundamental signal(dBuV/m@3m)} - 95.23$;
- ④ $\text{ERP(mW)} = 10^{(\text{ERP (dBm)}/10)}$;
- ⑤ The estimation distance is 20cm.
- ⑥ The test data please refer to the report of EED32R81471401, EED32R81471402, EED32R81471403, EED32R81471404, 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)= $0.00055+0.01181+0.01165=0.02401 < 1$, 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 ***