

RF Exposure Evaluation Report

Product	: Remote Control
Trade mark	: N/A
Model/Type reference	: OBE_RCU_R8
Serial Number	: N/A
Report Number	: EED32R81539701
FCC ID	: 2BRQF-OBERCUR8
Date of Issue	: Sep. 16, 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:	Remote Control
Model No.(EUT):	OBE_RCU_R8
Trade Mark:	N/A

2.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz
Modulation Type:	GFSK
Test Power Grade:	Default
Test Software of EUT:	FCC_assist1.0.4.exe
Antenna Type:	PCB antenna
Antenna Gain:	1.03 dBi
Power Supply:	Battery: 1.5V*2=3V
Sample Received Date:	Sep. 02, 2025
Sample tested Date:	Sep. 02, 2025 to Sep. 05, 2025

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 Number: 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:**

Frequency (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio
2402	0.5	1.81	1.03	0.69	1.1722	2.7877	0.4205

Note:

- ①EIRP=conducted power+antenna gain;
- ②ERP=EIRP-2.15;
- ③EIRP(dBm) = Field strength of the fundamental signal(dBuV/m@3m) – 95.23;
- ④ERP(mW) = $10^{(ERP\ (dBm)/10)}$;
- ⑤The estimation distance is 0.5cm;
- ⑥The test data please refer to the report of EED32R81539701 and only the worst case data was recorded in the report.

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 ***