

# 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 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.

##### 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:**

- 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 0.5cm;
- ⑥ The 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 \*\*\*