

Report Seal



# **RF Exposure Evaluation Report**

**Product**: Remote Controller

Trade mark

**Model/Type reference**: 25212, 25111, 25112, 25113,

25114, 25115, 25116,

XXXXX (X=0-9)

Serial Number : N/A

**Report Number** : EED32R80427702 **FCC ID** : 2ACO2-GV-TX01

**Date of Issue** : Apr. 21, 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:

Golden Vessel Electronic & Lighting, Inc Industrial District, ZhongHan Town ChaoHu City, AnHui Province, China

Prepared by:

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Page 2 of 8

# 1 Version

Version No.	Date		Description			
00	Apr. 21, 2025		Original			
	200	(2)				
			(62)	(6,7)		





Report No.: EED32R80427702

Page 3 of 8

# **Contents**

							Page
1 VERSION	••••••	•••••	•••••	•••••	•••••	•••••	2
2 CONTENTS	S	•••••		•••••	•••••	•••••	3
3 GENERAL	INFORMATION	•••••		•••••		•••••	4
3.2 GENERA 3.3 PRODUC 3.4 TEST LC 3.5 DEVIATI 3.6 ABNORN	Information L Description of T Specification s OCATION ION FROM STANDA MALITIES FROM ST. INFORMATION REQ	EUTSUBJECTIVE TORDS	THIS STANDARI	)			
	UATION						
4.1.1 Lir 4.1.2 T∈	osure Compliand mitsest Procedure JT RF Exposure						<i>6</i>



Report No.: EED32R80427702 Page 4 of 8

# 3 General Information

### 3.1 Client Information

Applicant:	Golden Vessel Electronic & Lighting, Inc
Address of Applicant: Industrial District, ZhongHan Town ChaoHu City, AnHui Province,	
Manufacturer: Golden Vessel Electronic & Lighting, Inc	
Address of Manufacturer:	Industrial District, ZhongHan Town ChaoHu City, AnHui Province, China
Factory:	Golden Vessel Electronic & Lighting, Inc
Address of Factory:	Industrial District, ZhongHan Town ChaoHu City, AnHui Province, China

# 3.2 General Description of EUT

Product Name:	Remote Cont	roller					
Model No.:	25212, 25111, 25112, 25113, 25114, 25115, 25116, XXXXX (X=0-9)						
Test Model No.:	25212						
Trade mark:	E						

# 3.3 Product Specification subjective to this standard

Frequency Range:	2420MHz	/	(6)			
Modulation Type:	GFSK					
Test Power Grade:	Default					
Test Software of EUT:	N/A					
Antenna Type:	PCB anten	na		(6,2)		(0,0)
Antenna Gain:	-1.97dBi					
Power Supply:	Battery:	DC 1.5V x2				
Sample Received Date:	Apr. 10, 20	)25	/°		(3)	
Sample tested Date:	Apr. 10, 20	25 to Apr. 14, 202	25		(57)	

Remark:

Model No.: 25212, 25111, 25112, 25113, 25114, 25115, 25116, XXXXX (X=0-9)

Only the model 25212 was tested. The model is 25111, 25112, 25113, 25114, 25115, 25116, XXXXX (X=0-9), and the only difference between these model series is the model name.







### 3.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

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

No tests were sub-contracted. FCC Designation No.: CN1164

### 3.5 Deviation from Standards

None.

### 3.6 Abnormalities from Standard Conditions

None.

# 3.7 Other Information Requested by the Customer





Report No.: EED32R80427702 Page 6 of 8

### 4 SAR Evaluation

### 4.1 RF Exposure Compliance Requirement

#### **4.1.1 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

$$P_{\text{th}} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\,\mathrm{cm}}\sqrt{f}}\right)$$

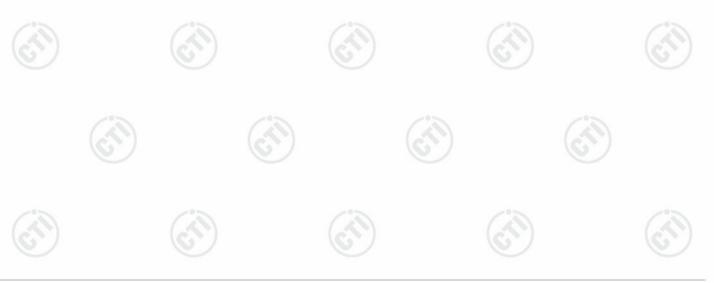
and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

$$P_{\text{th}} (\text{mW}) = ERP_{20 \text{ cm}} (\text{mW}) = \begin{cases} 2040f & 0.3 \text{ GHz} \le f < 1.5 \text{ GHz} \\ \\ 3060 & 1.5 \text{ GHz} \le f \le 6 \text{ GHz} \end{cases}$$
(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.

#### 4.1.2 Test Procedure

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





Report No.: EED32R80427702 Page 7 of 8

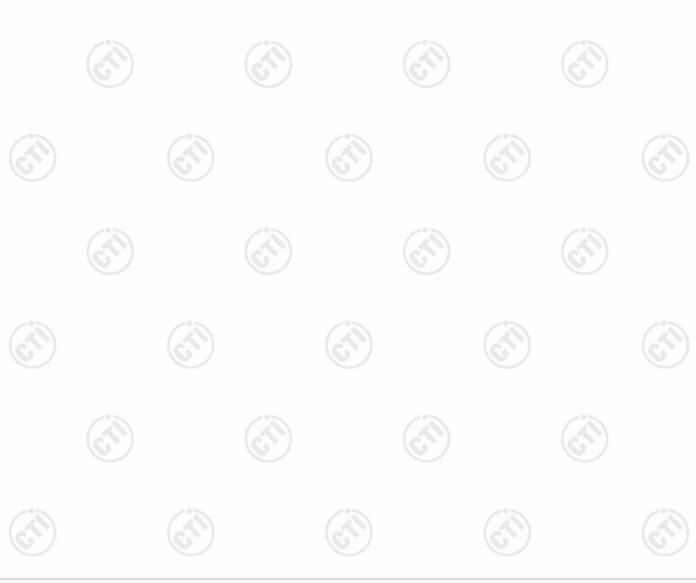
## 4.1.3 EUT RF Exposure Evaluation

### **Evaluation Results**

		Antenna	RF output power (including tune-up tolerance)		SAR Test Exclusio	SAR Test	
	Band/Mode	f (GHz)	Distance	dBm	mW	n	Exclusion
			(mm)			Threshol	
						d	
	2.4G	2.420	5	-13.34	0.046	0.046<3.0	Yes

### Note:

The test data please refer to the report of EED32R80427701 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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