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RF Exposure Evaluation Report

	Product	: BLUETOOTH CONTROLLER	
	Trade mark	: N/A	
	Model/Type reference		
	Serial Number	: N/A	
	Report Number	: EED32R80427502	
	FCC ID	: 2ACO2-GV-TX02	
	Date of Issue	: May 14, 2025	
	Test Standards	47 CFR Part 1.1307	
		47 CFR Part 1.1310 47 CFR Part 2.1091	
		47 CFR Part 2.1091	
		KDB 447498 D04 Interim Gene	ral RF
		Exposure Guidance v01	
	Test result	: PASS	
	Coldon Voor	Prepared for:	
Judu		el Electronic & Lighting,Inc	Province China
Indu	strial District, Zhonghai	Town ChaoHu City, AnHui F	rovince, china
		Drepered by:	
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	proved by: E Janon Ma	Date: May	/ 14, 2025
뉟	S Aaron Ma		
CENTRE 7			Chook No : 1129210225
R	eport Seal		Check No.:4438310325





1 Version

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Version No.	Date	Description	
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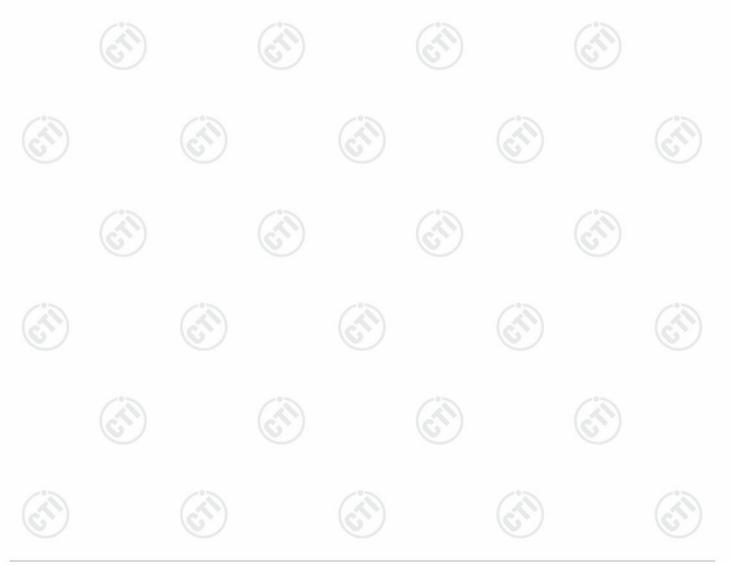


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Report No. : EED32R80427502

3 General Information

3.1 Client Information

Applicant:	Golden Vessel Electronic & Lighting, Inc			
Address of Applicant: Industrial District, ZhongHan Town ChaoHu City, AnHui Province, China				
Manufacturer 1: Golden Vessel Electronic & Lighting, Inc				
Address of Manufacturer 1:	Industrial District, ZhongHan Town ChaoHu City, AnHui Province, China			
Manufacturer 2:	WINKSTAR ELECTRONIC AND LIGHTING CO., LTD			
Address of Manufacturer 2: Kilometer number 69, National Road No. 2, Prey Prom Village, Roka Knong				
Commune, Daun keo City, Takeo Province, Cambodia				
Factory 1:	Golden Vessel Electronic & Lighting, Inc			
Address of Factory 1:	Industrial District, ZhongHan Town ChaoHu City, AnHui Province, China			
Factory 2:	WINKSTAR ELECTRONIC AND LIGHTING CO., LTD			
Address of Factory 2: Kilometer number 69, National Road No. 2, Prey Prom Village, Roka Knon				
Commune, Daun keo City, Takeo Province, Cambodia				

3.2 General Description of EUT

Product Name:	BLUETOOTH CONTR	OLLER		
Model No.:	BL-GV-2025			
Test Model No.:	BL-GV-2025			
Trade mark:	N/A	(C)	G	

3.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~248	30MHz	2°2		2°>>
Modulation Type:	GFSK		(\mathcal{A})		(\mathcal{A})
Test Power Grade:	Default		V		V
Test Software of EUT:	bt_tool_v1.1.4				
Antenna Type:	PCB Antenna				
Antenna Gain:	-2.44dBi				
Power Supply:	Adapter:	Model: JL-DC240V0375-I Input: 120V, 60Hz Output: 24V/0.375A	כ	G	
Sample Received Date:	Apr. 21, 2025		-0-		-07
Sample tested Date:	Apr. 21, 2025	to Apr. 23, 2025			
)				67







All tests were performed at:



3.4 Test Location



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

None.







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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

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

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.





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4.1.3 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	Result
@2.4GHz	20	-3.1	-2.44	-5.25	0.2985	3060	0.0001	Pass

Note:

①EIRP=conducted power+antenna gain;

②ERP=EIRP-2.15;

③EIRP(dBm) = Field strength of the fundamental signal(dBuV/m@3m) – 95.23;

(4)ERP(mW) = 10^{(ERP (dBm)/10)};

⑤The estimation distance is 20cm;

⁽⁶⁾The test data please refer to the report of EED32R80427501 and only the worst case data was recorded in the report.





















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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;

5. Without written approval of CTI, this report can't be reproduced except in full;

*** End of Report ***