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# RF Exposure Evaluation Report

Product : karaoke machine

Trade mark : Blueera

Model/Type reference : See section 4.2

Serial Number : N/A

**Report Number** : EED32Q80407202 **FCC ID** : 2BF39BS2024032001

Date of Issue : May 20, 2024

Test Standards : 47 CFR Part 1.1307

47 CFR Part 1.1310 47 CFR Part 2.1091 47 CFR Part 2.1093

447498 D04 Interim General RF

Exposure Guidance v01

Test result : PASS

Prepared for:

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Prepared by:

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May 20, 2024









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Version

Version No.	Date		Description	
00	May 20, 2024		Original	
(	(ii)	(3)		
/		(0)	(6.)	(0)



















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## 3 General Information

### 3.1 Client Information

Applicant:	Shenzhen Laner Technology Co., Ltd.		
Address of Applicant:	Room 1204, Building 13, Lane 1, Changkeng District, Wuhe Avenue, Bantian Street, Longgang District, Shenzhen City, Guangdong Province, China		
Manufacturer:	Shenzhen Laner Technology Co., Ltd.		
Address of Manufacturer:	Room 1204, Building 13, Lane 1, Changkeng District, Wuhe Avenue, Bantian Street, Longgang District, Shenzhen City, Guangdong Province, China		
Factory:	Shenzhen Laner Technology Co., Ltd.		
Address of Factory:	Room 1204, Building 13, Lane 1, Changkeng District, Wuhe Avenue, Bantian Street, Longgang District, Shenzhen City, Guangdong Province, China		

# 3.2 General Description of EUT

Product Name:	karaoke machine
Model No.(EUT):	Ardour 1, Ardour 2, Ardour 3, Ardour 4, Amber 1, Amber 2, Amber 3,
(ii)	Amber 4, Amber 5, Amber 6, Trendy 1, Trendy 2, Trendy 3, Trendy 4, Ebullient 1, Ebullient 2, Ebullient 3, Ebullient 4, Ebullient 5, Ebullient 6
Test Model No.:	Ardour 1
Trade Mark:	Blueera

## 3.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2	402MHz~2480MHz				
Modulation Type:	GFSK, π/4D	FSK, π/4DQPSK, 8DPSK				
Test Power Grade:	Default				6)	
Test Software of EUT:	FrequencyTool_v0.3.2					
Antenna Type:	FPC Antenna 3.43dBi					
Antenna Gain:						
Power Supply:	Battery:	DC 11.1V				
Sample Received Date:	Mar. 29, 2024 Mar. 29, 2024 to May. 14, 2024				(6)	
Sample tested Date:						

#### Remark

Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

Model No.: Ardour 1, Ardour 2, Ardour 3, Ardour 4, Amber 1, Amber 2, Amber 3, Amber 4, Amber 5, Amber 6, Trendy 1, Trendy 2, Trendy 3, Trendy 4, Ebullient 1, Ebullient 2, Ebullient 3, Ebullient 4, Ebullient 5, Ebullient 6 Only the model Ardour 1 was tested. The electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being color and 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





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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

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

where

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

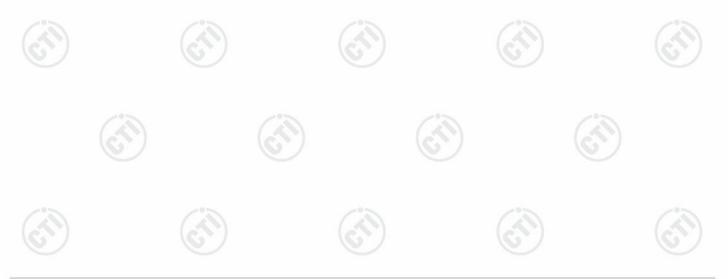
and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

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





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### 4.1.3 EUT RF Exposure Evaluation

#### For Stand alone:

#### For BT

6	Frequency	Max. Conducted Output	Antenna Gain	ERP	ERP	Limit	Result
9	(MHz)	power (dBm)	(dBi)	(dBm)	(mW)	(mW)	(0)
-	2402	0.81	3.43	2.09	1.618	2.788	PASS

#### 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;
- ©The test data please refer to the report of EED32Q80407201 and only the worst case data was recorded in the report.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

\*\*\* End of Report \*\*\*

