

RF Exposure Evaluation Report

Product : karaoke machine with screen
Trade mark : N/A
Model/Type reference : V-09
Serial Number : N/A
Report Number : EED32S820650
FCC ID : 2BNFO-V09
Date of Issue : September 28, 2026
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091
KDB 447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

Shenzhen Xutao Electronics Co., Ltd
Unit 301, Dawangshan Rainbow Residence, No. 1007 Xihuan Road,
Dawangshan Community, Shajing District, Bao'an District, Shenzhen
GuangDong

Prepared by:

Centre Testing International Group Co., Ltd.
Building C, Hongwei Industrial Park Block 70, Bao'an District,
Shenzhen, China

TEL: +86-755-3368 3668

FAX: +86-755-3368 3385

Compiled by:

Frazer Li

Frazer Li

Reviewed by:

Tom Chen

Tom Chen

Approved by:

Aaron Ma

Aaron Ma

Date:

September 28, 2026

Check No.: 6414250826



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2 General Information

2.1 Client Information

Applicant:	Shenzhen Xutao Electronics Co., Ltd
Address of Applicant:	Unit 301, Dawangshan Rainbow Residence, No. 1007 Xihuan Road, Dawangshan Community, Shajing District, Bao'an District, Shenzhen GuangDong
Manufacturer:	Dongguan Langyun Electronic Co., Ltd.
Address of Manufacturer:	Room 401&Room 403,No.26, Gong'ao 1st Road, Dalang Town, Dongguan,Guangdong,China

2.2 General Description of EUT

Product Name:	karaoke machine with screen
Model No.:	V-09
Test Model No.:	V-09
Model difference:	N/A
Trade mark:	N/A
Product Type:	Fixed Use

Power Supply:	Adapter:	Model No.: N/A Input: N/A Output: N/A
	Battery:	DC 7.4V
	USB Port:	DC 5V
Test Voltage:	DC 5V	
Sample Received Date:	Aug. 25, 2026	
Sample tested Date:	Aug. 25, 2026 to Sep. 17, 2026	

2.3 Product Specification subjective to this standard

BT:

Operation Frequency:	2402MHz-2480MHz
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Antenna Type:	PIFA antenna
Antenna Gain:	2.22 dBi

2.4G Wi-Fi:

Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40): 2422MHz to 2452MHz
Modulation Type:	IEEE for 802.11b:DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g:OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40): OFDM (64QAM, 16QAM,QPSK,BPSK)
Number of Channel:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7 Channels
Channel Separation:	5MHz

Function	SISO
Antenna Type:	PIFA antenna
Antenna Gain:	1.78 dBi

5G Wi-Fi:

EUT Function:	☐ Outdoor AP ☐ Indoor AP ☐ Fixed P2P AP ☒ Indoor
Type of Modulation:	IEEE 802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11n(HT20/HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11ac(VHT20/VHT40): OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) IEEE 802.11ax(HE20/HE40): OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Operating Frequency	U-NII-1: 5150-5250MHz U-NII-3: 5745-5825MHz
Antenna Configuration:	☒ Single Transmitting;
Antenna Type:	PIFA antenna
Antenna Gain:	U-NII-1:2.06dBi U-NII-3:1.49dBi

2.4 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, Test Firm Registration No.: 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:

Band/Freq. (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
@BT	20	7.57	2.22	7.64	5.81	3060.00	0.0019	Pass
@2.4G Wi-Fi	20	16.74	1.78	16.37	43.35	3060.00	0.0142	Pass
@5G NII-1 Wi-Fi	20	12.68	2.06	12.59	18.16	3060.00	0.0059	Pass
@5G NII-3 Wi-Fi	20	14.98	1.49	14.32	27.04	3060.00	0.0088	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) = $10^{(ERP \text{ (dBm)}/10)}$;

⑤The estimation distance is 20cm;

⑥The test data please refer to the report of EED32S820649, EED32S820650, EED32S820651 and only the worst case data was recorded in the report.

For Simultaneous Transmission:

As MPE ratio (BLE+2.4G Wi-Fi+5G Wi-Fi)=0.0019+ 0.0142+ 0.0088=0.0249 < 1, it's deemed to fulfil the RF exposure requirement.

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;
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*** End of Report ***