TEST REPORT

Product Name	:	**Bluetooth ULTIMATE PORTABLE KARAOKE with Wireless Mic and USB Disco Ball**
Model Number	:	**KP-450VM.EXv26, X-450VM Y (X and Y could be single or multiple digits by any alphabets and punctuation marks denoting different year version, buyers and cabinet colors)**
FCC ID	:	**EMO450AM**

Prepared for	:	SDI Technologies Inc.
Address	:	1299 Main Street, Rahway, NJ 07065, U.S.A
Prepared by	:	EMTEK (DONGGUAN) CO., LTD.
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Report Number	:	EDG2604080077E00202R
Date of sample receipt	:	Apr 08, 2026
Date(s) of Tests	:	Apr 08, 2026 to May 09, 2026
Date of issue	:	May 11, 2026

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1. TEST RESULT CERTIFICATION

Applicant	:	SDI Technologies Inc.
Address	:	1299 Main Street, Rahway, NJ 07065, U.S.A
Manufacturer	:	eKids, LLC. / KIDDESIGNS INC.
Address	:	1299, Main Street, Rahway, NJ 07065, U.S.A.
Factory	:	NINGBO SC-STARMAX IMP. & EXP. CO.,LTD.
Address	:	19F, Building 1, Lane 1255, Heqing North Road, Yinzhou District, Ningbo, Zhejiang, China, 315048
EUT	:	Bluetooth ULTIMATE PORTABLE KARAOKE with Wireless Mic and USB Disco Ball
Model Name	:	KP-450VM.EXv26, X-450VM Y (X and Y could be single or multiple digits by any alphabets and punctuation marks denoting different year version, buyers and cabinet colors)
Trademark	:	eKids / iHome

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	**TEST RESULT**
§ 15.247(i), § 2.1093	**PASS**

The above equipment was tested by EMTEK (DONGGUAN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2020) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules FCC § 15.247(i), § 2.1093.

The test results of this report relate only to the tested sample identified in this report

Date of Test : Apr 08, 2026 to May 09, 2026

Prepared by : Jessica Zhang /Editor

Reviewer : Warren Deng /Supervisor

Approve & Authorized Signer : Sam Lv / Manager

Modified History

Version	Report No.	Revision Date	Summary
	EDG2604080077E00202R	/	Original Report

2. EUT Specification

Characteristics	Description
Product:	Bluetooth ULTIMATE PORTABLE KARAOKE with Wireless Mic and USB Disco Ball
Model Number:	KP-450VM.EXv26, X-450VM Y (X and Y could be single or multiple digits by any alphabets and punctuation marks denoting different year version, buyers and cabinet colors) (Note: These models are the same, except for the model names, year version, buyers and cabinet color;KP-450VM.EXv26 was selected for full test.)
Sample:	1#
Device Type:	BLE
Data Rate:	1Mbps for GFSK modulation 2Mbps for GFSK modulation
Modulation:	GFSK
Operating Frequency Range(s) :	2402-2480MHz
Number of Channels:	40 channels
Transmit Power Max:	-5.02 dBm(0.000315 W)
Antenna Gain:	-0.68 dBi
Power supply:	DC 5V from USB DC 3.7V from battery
Evaluation applied:	☐ MPE Evaluation ☒ SAR Evaluation

3. Test Requirement

SAR Evaluation

According to 447498 D01 V06, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

[(*max. power of channel, including tune-up tolerance, mW*)/(*min. test separation distance, mm*)] · [$\sqrt{f_{(GHz)}}$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,[24] where

- $f_{(GHz)}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation[25]
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum *test separation distance* is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum *test separation distance* is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to quality for TCB approval.
One antenna is available for the EUT. The minimum separation distance is 5mm.

4. Measurement Result

Antenna gain: -0.68 dBi

Transmit Frequency (MHz)	Mode	Measured Power (dBm)	Tune up Power (dBm)	Max tune up power (dBm)	Calculation Result	Calculation threshold(1-g SAR)
2402	GFSK(1M)	-5.61	-5±1	-4	0.1234	3
2440	GFSK(1M)	-5.84	-5±1	-4	0.1244	3
2480	GFSK(1M)	-5.02	-5±1	-4	0.1254	3
2402	GFSK(2M)	-5.63	-5±1	-4	0.1234	3
2440	GFSK(2M)	-5.76	-5±1	-4	0.1244	3
2480	GFSK(2M)	-5.12	-5±1	-4	0.1254	3

According to KDB 447498 D01 V06, no stand-alone required for BLE antenna, and no simultaneous SAR measurement is required.

*** End of Report ***