

TEST REPORT

Product Name : Bluetooth Karaoke & Microphone with EZ Link
+ Technology - Microphone
Model Number : Di-565, M1 - 565 M2M3M4M5M6M7M8M9M10
(M1 - M10, please refer to model no. table)
FCC ID : EMO565M

Prepared for : SDI Technologies Inc.
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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 : DongGuan Synst Electronics Co., Ltd.
Address : No. 20, Fudong Road, Houjie Town, Dong-Guang City, Guangdong Province, China
EUT : Bluetooth Karaoke & Microphone with EZ Link + Technology - Microphone
Model Name : Di-565, M1 – 565 M2M3M4M5M6M7M8M9M10 (M1 – M10, please refer to model no. table)
Trademark : eKids, iHome

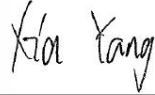
Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
§ 15.249, § 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 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules FCC § 15.249, § 2.1093.

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

Date of Test : March 30, 2023 to April 24, 2023

Prepared by : 
Xia Yang /Editor

Reviewer : 
Tim Dong/ Supervisor

Approve & Authorized Signer : 
Sam Lv / Manager

Modified History

Version	Report No.	Revision Date	Summary
	EDG2303300217E00402R	/	Original Report



2. EUT Specification

Characteristics	Description
Product:	Bluetooth Karaoke & Microphone with EZ Link + Technology - Microphone
Model Number:	Di-565, M1 – 565 M2M3M4M5M6M7M8M9M10 (M1 – M10, please refer to model no. table) All products are the same, only the model number and color of appearance are different Here we selected Di-565 for all the test
Sample:	1#
Modulation:	GFSK
Operating Frequency Range(s) :	2402-2480MHz
Number of Channels:	3 Channels
Transmit Power Max:	92.84 dBuV@3m
Antenna Gain:	-0.58 dBi
Power supply:	DC 5V from Speaker, DC 3.7V from battery
Evaluation applied:	<input type="checkbox"/> MPE Evaluation <input checked="" type="checkbox"/> SAR Evaluation

Model: M_1 – 565 $M_2M_3M_4M_5M_6M_7M_8M_9M_{10}$ ($M_1 - M_{10}$, please refer to model no. table)

Model no. table

Part of model #	M_1	M_2	M_3	M_4	M_5	M_6	M_7	M_8	M_9	M_{10}
Number of digit(s)	2 to 3	2	1	1	1 to 2	1	1 to 3	1 to 4	2	1
Description	2 to 3 digits alphabets combination by "a" – "z" for brand	1 to 2 digits alphabets combination by "a" – "z" special character version <i>Or</i> <i>blank</i>	"." <i>Or</i> <i>blank</i>	"U" for Europe version <i>Or</i> <i>blank</i>	"E" for English content <i>Or</i> "F" for English & French <i>Or</i> "3" for 3 language version <i>Or</i> "5" for 5 languages version <i>Or</i> "11" for Europe version with 11 languages	"X" for no sound effect <i>Or</i> "E" for having sound effect or speech effect <i>Or</i> "M" for having sound effect (Music)	"0" – "9" for year version <i>Or</i> "V0" – "V99" for year version	"M" for Movie version brand <i>Or</i> <i>blank</i>	"AK" for Walmart exclusive <i>Or</i> "AP" for Apple exclusive <i>Or</i> "KS" for Kohl's exclusive <i>Or</i> "TG" for Target exclusive <i>blank</i>	"I" for inner carton required <i>Or</i> "z" for direct to consumer on-line packaging <i>Or</i> "OL" for Amazon packaging <i>Or</i> <i>blank</i>

3. Test Requirement

RF EXPOSURE EVALUATION

According to §15.247(i) and §1.1307(b)(1), 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:

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

- $f_{\text{(GHz)}}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation²⁵
- 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 qualify for TCB approval. One antenna is available for the EUT. The minimum separation distance is 5mm.

According to ANSI C63.10-2013

9.5 Equations to calculate EIRP

Calculate the EIRP from the radiated field strength in the far field using Equation (22):

$$\text{EIRP} = E + 20 \log(d) - 104.7 \quad (22)$$

where

EIRP is the equivalent isotropically radiated power, in dBm

E is the field strength of the emission at the measurement distance, in dBμV/m

d is the measurement distance, in m

4. Measurement Result

Antenna gain:-0.58 dBi

When a single module works, the measurement results are as follows:

2.4G

Channel Freq. (MHz)	Max Field Strength (dBuV/m)	peak output power (dBm)	Tune upPower (dBm)	Max tune up power(dBm)	Calculation Result	1-g SAR
2402	90.47	-5.2676	-4±1	-5	0.09802041	3
2441	88.87	-6.8676	-5±1	-6	0.07848992	3
2480	92.84	-2.8976	-3±1	-2	0.19872652	3

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

*** End of Report ***