

TEST REPORT

Product Name: Bluetooth Earbuds with Charging case

iH-B15, iH-B15B, iH-B15W, iH-B15X (X could be

single or multiple digits by any alphabets and Model Number:

punctuation marks denoting different year

version, buyers and colors)

FCC ID : EMOB15A

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.

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EUT Bluetooth Earbuds with Charging case

iH-B15, iH-B15B, iH-B15W, iH-B15X (X could be single or multiple digits by any

alphabets and punctuation marks denoting different year version, buyers and Model Name

colors)

Trademark iHome, eKids

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 (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 § 15.247(i), § 2.1093.

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

Date of Test :	June 29, 2023 to August 15, 2023
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Modified History

Version	Report No. Revision Date		Summary	
	EDG2306290283E00402R	1	Original Report	





2. EUT Specification

Characteristics	Description			
Product:	Bluetooth Earbuds with Charging case			
Model Number:	iH-B15, iH-B15B, iH-B15W, iH-B15X (X could be single or multiple digits by any alphabets and punctuation marks denoting different year version, buyers and colors) All products are the same, only the model number and color of appearance are different Here we selected iH-B15B.FXv23 for all the test			
Sample:	1#			
Device Type:	Bluetooth V5.3			
Data Rate:	1Mbps for GFSK modulation 2Mbps for π/4-DQPSK modulation 3Mbps for 8DPSK modulation			
Modulation:	GFSK, π/4-DQPSK, 8DPSK			
Operating Frequency Range(s) :	2402-2480MHz			
Number of Channels:	79 channels			
Transmit Power Max:	-10.53 dBm(0.000089W)			
Antenna Type:	Chip Antenna			
Antenna Gain:	2.7 dBi			
Evaluation applied:	☐ MPE Evaluation ☐ SAR Evaluation			



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 \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · $[\sqrt{f_{(GHz)}}] \le 3.0$ 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: 2.7 dBi

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

BT

Transmit Frequency (MHz)	Mode	Measure d Power (dBm)	E.I.R.P (dBm)	Tune up Power (dBm)	Max tune up power (dBm)	Calculation Result	1-g SAR
2402	GFSK	-11.05	-8.35	-9±1	-8	0.0491266	3
2441	GFSK	-11.22	-8.52	-9±1	-8	0.0495238	3
2480	GFSK	-12.55	-9.85	-10±1	-9	0.0396512	3
2402	П/4-DQPSK	-10.53	-7.83	-8±1	-7	0.0618467	3
2441	П/4-DQPSK	-11.07	-8.37	-9±1	-8	0.0495238	3
2480	П/4-DQPSK	-12.17	-9.47	-10±1	-9	0.0396512	3
2402	8DPSK	-10.84	-8.14	-9±1	-8	0.0491266	3
2441	8DPSK	-11.03	-8.33	-9±1	-8	0.0495238	3
2480	8DPSK	-12.01	-9.31	-10±1	-9	0.0396512	3

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

*** End of Report ***