

# TEST REPORT

**Product Name** : Backtrack JR Retro Boombox  
**Model Number** : AI7013, AI7013-BLK, AI7013-BLKGLD, AI7013-SIL,  
LT-BT305BUF, AI7013-XXXXXX (X= Blank or 0-9 or  
A-Z or a-z, represents appearance color.)  
**FCC ID** : 2AHW8-LT-BT305BUF

**Prepared for** : LEOTEC ELECTRONICS CO.,LTD  
**Address** : 174 Wenzhou Road, Dongcheng Street, Dongguan City,  
Guangdong Province, China

**Prepared by** : EMTEK (SHENZHEN) CO., LTD.  
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**Report Number** : ENS2511250038W00402R  
**Date of sample receipt** : Nov 25, 2025  
**Date(s) of Tests** : Nov 25, 2025 to Dec 16, 2025  
**Date of issue** : Dec 17, 2025

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## 1. TEST RESULT CERTIFICATION

Applicant : LEOTEC ELECTRONICS CO.,LTD  
Address : 174 Wenzhou Road, Dongcheng Street, Dongguan City, Guangdong Province, China  
Manufacturer : LEOTEC ELECTRONICS CO.,LTD  
Address : 174 Wenzhou Road, Dongcheng Street, Dongguan City, Guangdong Province, China  
Factory : LEOTEC ELECTRONICS CO.,LTD  
Address : 174 Wenzhou Road, Dongcheng Street, Dongguan City, Guangdong Province, China  
EUT : Backtrack JR Retro Boombox  
Model Name : AI7013, AI7013-BLK, AI7013-BLKGLD, AI7013-SIL, LT-BT305BUF, AI7013-XXXXXX (X= Blank or 0-9 or A-Z or a-z, represents appearance color.)  
Trademark : N/A

Measurement Procedure Used:

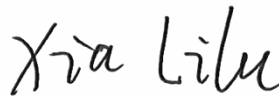
| APPLICABLE STANDARDS  |             |
|-----------------------|-------------|
| STANDARD              | TEST RESULT |
| § 15.247(i), § 2.1093 | PASS        |

The above equipment was tested by EMTEK (SHENZHEN) 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 : Nov 25, 2025 to Dec 16, 2025

Prepared by :   
Yu Xiaolan /Editor

Reviewer :   
Xia Lilu/Supervisor

Approve & Authorized Signer :   
Wang Li/Manager



## Modified History

| Version | Report No.           | Revision Date | Summary         |
|---------|----------------------|---------------|-----------------|
|         | ENS2511250038W00402R | /             | Original Report |
|         |                      |               |                 |
|         |                      |               |                 |



## 2. EUT Specification

| Characteristics                       | Description                                                                                                                                                                                                                                        |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product:</b>                       | Backtrack JR Retro Boombox                                                                                                                                                                                                                         |
| <b>Model Number:</b>                  | AI7013, AI7013-BLK, AI7013-BLKGLD, AI7013-SIL, LT-BT305BUF, AI7013-XXXXXX (X= Blank or 0-9 or A-Z or a-z, represents appearance color.)<br>All products are identical except the model number and color. Here we selected AI7013 for all the test. |
| <b>Sample:</b>                        | 1#                                                                                                                                                                                                                                                 |
| <b>Data Rate:</b>                     | 1Mbps for GFSK modulation<br>2Mbps for $\pi/4$ -DQPSK modulation                                                                                                                                                                                   |
| <b>Modulation:</b>                    | GFSK, $\pi/4$ -DQPSK                                                                                                                                                                                                                               |
| <b>Operating Frequency Range(s) :</b> | 2402-2480MHz                                                                                                                                                                                                                                       |
| <b>Number of Channels:</b>            | 79 channels                                                                                                                                                                                                                                        |
| <b>Transmit Power Max:</b>            | 0.65 dBm(0.001161W)                                                                                                                                                                                                                                |
| <b>Antenna Gain:</b>                  | -0.58 dBi                                                                                                                                                                                                                                          |
| <b>Power supply:</b>                  | AC 120V~60Hz, 30W<br>DC 9V from battery                                                                                                                                                                                                            |
| <b>Evaluation applied:</b>            | <input type="checkbox"/> MPE Evaluation<br><input checked="" type="checkbox"/> 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*  $\leq 50$  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  $\leq 7.5$  for 10-g extremity SAR,<sup>24</sup> where

- $f_{(\text{GHz})}$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation<sup>25</sup>
- 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  $\leq 50$  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.

## 4. Measurement Result

Antenna gain: -0.58 dBi

| Transmit Frequency (MHz) | Mode      | Measured Power (dBm) | EIRP (dBm) | Tune up Power (dBm) | Max tune up power (dBm) | Calculation Result | Calculation threshold(1-g SAR) |
|--------------------------|-----------|----------------------|------------|---------------------|-------------------------|--------------------|--------------------------------|
| 2402                     | GFSK      | -1.24                | -1.24      | -1±1                | 0                       | 0.3100             | 3                              |
| 2441                     | GFSK      | -0.48                | -0.48      | 0±1                 | 1                       | 0.3933             | 3                              |
| 2480                     | GFSK      | -0.79                | -0.79      | 0±1                 | 1                       | 0.3965             | 3                              |
| 2402                     | Π/4-DQPSK | -0.17                | -0.17      | 0±1                 | 1                       | 0.3902             | 3                              |
| 2441                     | Π/4-DQPSK | 0.65                 | 0.65       | 0±1                 | 1                       | 0.3933             | 3                              |
| 2480                     | Π/4-DQPSK | 0.42                 | 0.42       | 0±1                 | 1                       | 0.3965             | 3                              |

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

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