



# RF Exposure Report

## For

**Applicant Name:** Shenzhen Addition Audio Science & Technology Co.,Ltd  
Floor1-5, No.2 Building, Huidebao Industrial Park, No.11,Second  
**Address:** Industrial Zone, Baihua Community, Guangming Sub-district,  
Guangming District, Shenzhen, China  
**EUT Name:** Self-Tuning Hearing aids  
**Brand Name:** Larksound, EarSpirit  
**Model Number:** ZT2209

## Issued By

**Company Name:** BTF Testing Lab (Shenzhen) Co., Ltd.  
F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park,  
**Address:** Tantou Community, Songgang Street, Bao'an District, Shenzhen,  
China

**Report Number:** BTF-SZ230301R-003  
**Test Standards:** 47 CFR Part 2 Subpart J Section 2.1093  
**FCC ID:** ZRR-ZT2209  
**Test Conclusion:** Pass  
**Test Date:** 2023-03-18 to 2023-03-19  
**Date of Issue:** 2023-03-20

**Prepared By:**

Gavin Cui

**Date:**

Gavin Cui / Project Engineer  
2023-03-20

**Approved By:**

Ryan.CJ

**Date:**

Ryan.CJ / EMC Manager  
2023-03-20

*Note: All the test results in this report only related to the testing samples. Which can be duplicated completely for the legal use with approval of applicant; it shall not be reproduced except in full without the written approval of BTF Testing Lab (Shenzhen) Co., Ltd., All the objections should be raised within thirty days from the date of issue. To validate the report, you can contact us.*

| Revision History |                                                                              |                   |
|------------------|------------------------------------------------------------------------------|-------------------|
| Version          | Issue Date                                                                   | Revisions Content |
| R_V0             | 2023-03-20                                                                   | Original          |
|                  |                                                                              |                   |
| Note:            | Once the revision has been made, then previous versions reports are invalid. |                   |

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## 1. Introduction

### 1.1 Identification of Testing Laboratory

|               |                                                                                                                                     |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Company Name: | BTF Testing Lab (Shenzhen) Co., Ltd.                                                                                                |
| Address:      | F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China |
| Phone Number: | +86-0755-23146130                                                                                                                   |
| Fax Number:   | +86-0755-23146130                                                                                                                   |

### 1.2 Identification of the Responsible Testing Location

|                          |                                                                                                                                                                                                                    |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Location:           | BTF Testing Lab (Shenzhen) Co., Ltd.                                                                                                                                                                               |
| Address:                 | F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China                                                                                |
| Description:             | All measurement facilities used to collect the measurement data are located at F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China |
| FCC Registration Number: | 518915                                                                                                                                                                                                             |
| Designation Number:      | CN1330                                                                                                                                                                                                             |

### 1.3 Laboratory Condition

|                            |                    |
|----------------------------|--------------------|
| Ambient Temperature:       | 20°C to 25°C       |
| Ambient Relative Humidity: | 45% to 55%         |
| Ambient Pressure:          | 100 kPa to 102 kPa |

### 1.4 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

## 2. Product Information

### 2.1 Application Information

|               |                                                                                                                                                                |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Company Name: | Shenzhen Adition Audio Science & Technology Co.,Ltd                                                                                                            |
| Address:      | Floor1-5, No.2 Building, Huidebao Industrial Park, No.11,Second Industrial Zone, Baihua Community, Guangming Sub-district, Guangming District, Shenzhen, China |

### 2.2 Manufacturer Information

|               |                                                                                                                                                                |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Company Name: | Shenzhen Adition Audio Science & Technology Co.,Ltd                                                                                                            |
| Address:      | Floor1-5, No.2 Building, Huidebao Industrial Park, No.11,Second Industrial Zone, Baihua Community, Guangming Sub-district, Guangming District, Shenzhen, China |

### 2.3 Factory Information

|               |                                                                                                                                                                |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Company Name: | Shenzhen Adition Audio Science & Technology Co.,Ltd                                                                                                            |
| Address:      | Floor1-5, No.2 Building, Huidebao Industrial Park, No.11,Second Industrial Zone, Baihua Community, Guangming Sub-district, Guangming District, Shenzhen, China |

### 2.4 General Description of Equipment under Test (EUT)

|                                           |                          |
|-------------------------------------------|--------------------------|
| EUT Name                                  | Self-Tuning Hearing aids |
| Under Test Model Name                     | ZT2209                   |
| Series Model Name                         | N/A                      |
| Description of Model name differentiation | N/A                      |
| Hardware Version                          | N/A                      |
| Software and Firmware Version             | N/A                      |

### 3. Test Requirement

KDB447498 D01 General RF Exposure Guidance v06, Clause 4.3.1(a)

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$

Where

-f(GHz) is the RF channel transmit frequency in GHz

-Power and distance are rounded to the nearest mW and mm before calculation

-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 4.1 f) is applied to determine SAR test exclusion.

#### 3.1 Assessment Result

☒ Passed

☐ Not Applicable

| Type   | Frequency (MHz) | Conducted Power (dBm) | Maximum Tune-up (dBm) | Calculating data | Limit | Result |
|--------|-----------------|-----------------------|-----------------------|------------------|-------|--------|
| BT-BLE | 2402            | 1.18                  | 2                     | 0.46             | 3.0   | Pass   |

Note: The exposure evaluation safety distance is 5mm.



Test Report Number: BTF-SZ230301R-003



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**--END OF REPORT--**