



## SHENZHEN HUAXIA TESTING TECHNOLOGY CO., LTD

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# TEST REPORT

**Report No. :** CQASZ20260701627E-02  
**Applicant:** Shenzhen Shenduchuang Technology Co., Ltd.  
**Address of Applicant:** Room 101, Rear Side of Building B, No. 88 Xintang Road, Silian Community,  
Henggang Street, Longgang District, Shenzhen City, Guangdong Province,  
China  
**Equipment Under Test (EUT):**  
**EUT Name:** Under-Pillow Sleep Speaker  
**Model No.:** Ambrosi S80 Ultra, Ambrosi S90 Ultra ,Ambrosi S12 Ultra,  
Ambrosi S15 Ultra, Ambrosi S16 Ultra, Ambrosi S17 Ultra,  
Ambrosi S18 Ultra, Ambrosi S19 Ultra  
**Test Model No.:** Ambrosi S80 Ultra  
**Brand Name:** N/A  
**FCC ID:** 2BXEK-AMBROSIS80  
47 CFR Part 1.1307  
**Standards:** 47 CFR Part 1.1310  
KDB447498D01 General RF Exposure Guidance v06  
**Date of Receipt:** 2026-07-24  
**Date of Test:** 2026-07-24 to 2026-08-04  
**Date of Issue:** 2026-8-19  
**Test Result :** **PASS**

**Tested By:** Azir Wang  
( Azir Wang )

**Reviewed By:** Timo Lei  
( Timo Lei )

**Approved By:** Jack Ai  
( Jack Ai )



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## 1. Version

Revision History Of Report

| Report No.           | Version | Description    | Issue Date |
|----------------------|---------|----------------|------------|
| CQASZ20260701627E-02 | Rev.01  | Initial report | 2026-8-19  |

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### 3. General Information

### 4. Client Information

|                          |                                                                                                                                                        |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applicant:               | Shenzhen Shenduchuang Technology Co., Ltd.                                                                                                             |
| Address of Applicant:    | Room 101, Rear Side of Building B, No. 88 Xintang Road, Silian Community, Henggang Street, Longgang District, Shenzhen City, Guangdong Province, China |
| Manufacturer:            | Shenzhen Shenduchuang Technology Co., Ltd.                                                                                                             |
| Address of Manufacturer: | Room 101, Rear Side of Building B, No. 88 Xintang Road, Silian Community, Henggang Street, Longgang District, Shenzhen City, Guangdong Province, China |
| Factory:                 | Shenzhen Shenduchuang Technology Co., Ltd.                                                                                                             |
| Address of Factory:      | Room 101, Rear Side of Building B, No. 88 Xintang Road, Silian Community, Henggang Street, Longgang District, Shenzhen City, Guangdong Province, China |

### 5. General Description of EUT

|                       |                                                                                                                                                        |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:         | Under-Pillow Sleep Speaker                                                                                                                             |
| Model No.:            | Ambrosi S80 Ultra, Ambrosi S90 Ultra ,Ambrosi S12 Ultra, Ambrosi S15 Ultra, Ambrosi S16 Ultra, Ambrosi S17 Ultra, Ambrosi S18 Ultra, Ambrosi S19 Ultra |
| Test Model No.:       | Ambrosi S80 Ultra                                                                                                                                      |
| Trade Mark:           | N/A                                                                                                                                                    |
| Software Version:     | V1.0                                                                                                                                                   |
| Hardware Version:     | V1.0                                                                                                                                                   |
| Modulation Technique: | Frequency Hopping Spread Spectrum(FHSS)                                                                                                                |
| Modulation Type:      | GFSK                                                                                                                                                   |
| Transfer Rate:        | 1Mbps                                                                                                                                                  |
| Number of Channel:    | 79                                                                                                                                                     |
| Hopping Channel Type: | Adaptive Frequency Hopping systems                                                                                                                     |
| Antenna Type:         | PCB antenna                                                                                                                                            |
| Antenna Gain:         | -0.58dBi                                                                                                                                               |
| Product Type:         | <input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location                                     |
| Power Supply:         | Li-ion battery DC 3.7V 450mAh, Charge by DC 5V for adapter                                                                                             |

## RF Exposure Evaluation

### RF Exposure Compliance Requirement

#### Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

##### 4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

#### Limits

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:

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

Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

The result is rounded to one decimal place for comparison

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 is applied to determine SAR test exclusion

## EUT RF Exposure

### 1) For BT

#### Measurement Data

| Worst case: GFSK |                            |                            |                       |       |
|------------------|----------------------------|----------------------------|-----------------------|-------|
| Test Channel     | Peak Output Power<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |       |
|                  |                            |                            | (dBm)                 | (mW)  |
| Lowest(2402MHz)  | 1.86                       | 2.0±1                      | 3.0                   | 1.995 |
| Middle(2441MHz)  | 1.61                       | 1.5±1                      | 2.5                   | 1.778 |
| Highest(2480MHz) | 1.13                       | 1.0±1                      | 2.0                   | 1.585 |

|                                                         |                           |                  |                     |
|---------------------------------------------------------|---------------------------|------------------|---------------------|
| Worst case: GFSK                                        |                           |                  |                     |
| Channel                                                 | Maximum tuneup Power (mW) | Calculated value | Exclusion threshold |
| Lowest (2402MHz)                                        | 1.995                     | 0.618            | 3.0                 |
| Middle (2441MHz)                                        | 1.778                     | 0.556            |                     |
| Highest (2480MHz)                                       | 1.585                     | 0.499            |                     |
| Conclusion: the calculated value ≤3.0, SAR is exempted. |                           |                  |                     |

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20260701627E-01

\*\*\* END OF REPORT \*\*\*