

# RF Exposure Evaluation Report

**Product** : ENC DUAL MIC NOISE-CANCELING TWS  
BLUETOOTH EARPHONES

**Trade mark** : MINISO

**Model/Type reference** : MINISO-P66

**Serial Number** : N/A

**Report Number** : EED32O80105503

**FCC ID** : 2ART4-P06A

**Date of Issue** : Aug. 23, 2022  
: 47 CFR Part 1.1307  
: 47 CFR Part 2.1093

**Test Standards** : KDB447498D01 General RF  
Exposure Guidance v06

**Test result** : PASS

Prepared for:

**Miniso Corporation**

**Room 2501, No. 486 Heye Square Kangwang Middle Road,  
Liwan District, GuangZhou, Guangdong, China**

Prepared by:

**Centre Testing International Group Co., Ltd.  
Hongwei Industrial Zone, Bao'an 70 District,  
Shenzhen, Guangdong, China**

**TEL: +86-755-3368 3668**

**FAX: +86-755-3368 3385**

Compiled by:

*mark.chen.*

Reviewed by:

*Tom chen*

Mark Chen

Tom Chen

Approved by:

*Aaron Ma*

Date:

Aug. 23, 2022

Aaron Ma

Check No.:3850210122



1 Version

| Version No. | Date          | Description |
|-------------|---------------|-------------|
| 00          | Aug. 23, 2022 | Original    |
|             |               |             |
|             |               |             |

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### 3 General Information

#### 3.1 Client Information

|                          |                                                                                                                                 |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Applicant:               | Miniso Corporation                                                                                                              |
| Address of Applicant:    | Room 2501, No. 486 Heye Square Kangwang Middle Road, Liwan District, GuangZhou, Guangdong, China                                |
| Manufacturer:            | CNCE                                                                                                                            |
| Address of Manufacturer: | 37F, Headquarters Building, No. 2, HBC Huilong Center, Mintang Road, Longhua District, Shenzhen City, Guangdong Province, China |
| Factory:                 | CNCE                                                                                                                            |
| Address of Factory:      | 37F, Headquarters Building, No. 2, HBC Huilong Center, Mintang Road, Longhua District, Shenzhen City, Guangdong Province, China |

#### 3.2 General Description of EUT

|                       |                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:         | ENC DUAL MIC NOISE-CANCELING TWS BLUETOOTH EARPHONES                                                                                                                                                                                                                                                                                                                                                |
| Model No.(EUT):       | MINISO-P66                                                                                                                                                                                                                                                                                                                                                                                          |
| Trade mark:           | MINISO                                                                                                                                                                                                                                                                                                                                                                                              |
| Product Type:         | <input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location                                                                                                                                                                                                                                                                                  |
| Power Supply:         | DC 3.7V                                                                                                                                                                                                                                                                                                                                                                                             |
| Test Voltage:         | DC 3.7V                                                                                                                                                                                                                                                                                                                                                                                             |
| Sample Received Date: | Jan. 24, 2022                                                                                                                                                                                                                                                                                                                                                                                       |
| Sample tested Date:   | Jan. 24, 2022 to Apr. 07, 2022                                                                                                                                                                                                                                                                                                                                                                      |
| Remark:               | <p>Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.</p> <p>During the test, the data was showed in all modes, only the worst case left ear was recorded in the report.</p> <p>The left and right headphone are same electrical circuit design and color.</p> |

#### 3.3 General Description of BLE

|                      |                                                                                     |
|----------------------|-------------------------------------------------------------------------------------|
| Operation Frequency: | 2402MHz~2480MHz                                                                     |
| Modulation Type:     | GFSK                                                                                |
| Transfer Rate:       | <input checked="" type="checkbox"/> 1Mbps <input checked="" type="checkbox"/> 2Mbps |
| Number of Channel:   | 40                                                                                  |
| Antenna Type:        | Chip Antenna                                                                        |
| Antenna Gain:        | 2.5dBi                                                                              |

#### 3.4 General Description of BT Classic

|                       |                                         |
|-----------------------|-----------------------------------------|
| Operation Frequency:  | 2402MHz~2480MHz                         |
| Modulation Technique: | Frequency Hopping Spread Spectrum(FHSS) |
| Modulation Type:      | GFSK, $\pi/4$ DQPSK                     |
| Number of Channel:    | 79                                      |
| Hopping Channel Type: | Adaptive Frequency Hopping systems      |
| Antenna Type:         | Chip Antenna                            |
| Antenna Gain:         | 2.5dBi                                  |

## 3.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

## 3.6 Deviation from Standards

None.

## 3.7 Abnormalities from Standard Conditions

None.

## 3.8 Other Information Requested by the Customer

None.



## 4 SAR Evaluation

### 4.1 RF Exposure Compliance Requirement

#### 4.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06  
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:

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

$f(\text{GHz})$  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

#### 4.1.2 EUT RF Exposure

##### 1) For BLE

Measurement Data:

The Ear L for 1M of data is worst, only the worst case is recorded in the report.

| GFSK mode        |                            |                            |                       |       |
|------------------|----------------------------|----------------------------|-----------------------|-------|
| Test channel     | Peak Output Power<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |       |
|                  |                            |                            | (dBm)                 | (mW)  |
| Lowest(2402MHz)  | 1.75                       | 2.0±1                      | 3                     | 1.995 |
| Middle(2440MHz)  | 1.8                        | 2.0±1                      | 3                     | 1.995 |
| Highest(2480MHz) | 1.88                       | 2.0±1                      | 3                     | 1.995 |

| Worst case: GFSK                                        |                                                    |                               |                           |       |                     |                        |
|---------------------------------------------------------|----------------------------------------------------|-------------------------------|---------------------------|-------|---------------------|------------------------|
| Channel                                                 | Maximum Peak<br>Conducted<br>Output Power<br>(dBm) | Tune up<br>tolerance<br>(dBm) | Maximum tune-<br>up Power |       | Calculated<br>value | Exclusion<br>threshold |
|                                                         |                                                    |                               | (dBm)                     | (mW)  |                     |                        |
| Lowest<br>(2402MHz)                                     | 1.75                                               | 2.0±1                         | 3                         | 1.995 | 0.62                | 3.0                    |
| Middle<br>(2440MHz)                                     | 1.8                                                | 2.0±1                         | 3                         | 1.995 | 0.62                |                        |
| Highest<br>(2480MHz)                                    | 1.88                                               | 2.0±1                         | 3                         | 1.995 | 0.62                |                        |
| Conclusion: the calculated value ≤3.0, SAR is exempted. |                                                    |                               |                           |       |                     |                        |

Remark: The Max Conducted Peak Output Power data refer to report Report No.: EED32O80105501.

## 2) For BT Classic

### Measurement Data

The Ear L of data is worst, only the worst case is recorded in the report.

| GFSK mode        |                            |                            |                       |       |
|------------------|----------------------------|----------------------------|-----------------------|-------|
| Test channel     | Peak Output Power<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |       |
|                  |                            |                            | (dBm)                 | (mW)  |
| Lowest(2402MHz)  | 2.01                       | 2.5±1                      | 3.5                   | 2.239 |
| Middle(2441MHz)  | 2.03                       | 2.5±1                      | 3.5                   | 2.239 |
| Highest(2480MHz) | 2.37                       | 2.5±1                      | 3.5                   | 2.239 |
| π/4DQPSK mode    |                            |                            |                       |       |
| Test channel     | Peak Output Power<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |       |
|                  |                            |                            | (dBm)                 | (mW)  |
| Lowest(2402MHz)  | 2.8                        | 3.0±1                      | 4.0                   | 2.512 |
| Middle(2441MHz)  | 2.95                       | 3.0±1                      | 4.0                   | 2.512 |
| Highest(2480MHz) | 3.04                       | 3.0±1                      | 4.0                   | 2.512 |

| Worst case: $\pi/4$ DQPSK                                      |                                                    |                               |                           |       |                     |                        |
|----------------------------------------------------------------|----------------------------------------------------|-------------------------------|---------------------------|-------|---------------------|------------------------|
| Channel                                                        | Maximum Peak<br>Conducted<br>Output Power<br>(dBm) | Tune up<br>tolerance<br>(dBm) | Maximum tune-<br>up Power |       | Calculated<br>value | Exclusion<br>threshold |
|                                                                |                                                    |                               | (dBm)                     | (mW)  |                     |                        |
| Lowest<br>(2402MHz)                                            | 2.8                                                | 3.0±1                         | 4.0                       | 2.512 | 0.8                 | 3.0                    |
| Middle<br>(2441MHz)                                            | 2.95                                               | 3.0±1                         | 4.0                       | 2.512 | 0.8                 |                        |
| Highest<br>(2480MHz)                                           | 3.04                                               | 3.0±1                         | 4.0                       | 2.512 | 0.8                 |                        |
| Conclusion: the calculated value $\leq 3.0$ , SAR is exempted. |                                                    |                               |                           |       |                     |                        |

Remark: The Max Conducted Peak Output Power data refer to report Report No.: EED32O80105502.



## PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32O80105501 for EUT external and internal photos.

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