

## RF Exposure Evaluation Report

**Report Reference No.**.....: **MTWG22020087-H**

**FCC ID**..... : **2AVTD-ELEROET7**

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Date of issue.....: **February 28, 2022**

**Representative Laboratory Name .:** **Shenzhen Most Technology Service Co., Ltd.**

Address .....: No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park,  
Nanshan, Shenzhen, Guangdong, China.

**Applicant's name**.....: **Shenzhen Tantio Technology Co.,LTD**

Address .....: **806, A block, Taojindi Building, Tenlong Road, Longhua  
district, Shenzhen, China**

**Test specification/ Standard** .....: **47 CFR Part 1.1307**

**47 CFR Part 2.1093**

TRF Originator.....: Shenzhen Most Technology Service Co., Ltd.

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**Test item description** .....: TWS

Trade Mark .....: eleror

Model/Type reference.....: eleror T7

Listed Models .....: N/A

Modulation Type .....: GFSK,  $\pi/4$ DQPSK, 8DPSK

Operation Frequency.....: From 2402MHz to 2480MHz

Hardware Version.....: B3.1

Software Version .....: /

Rating .....: DC 3.7V(by battery)

DC 5V(by USB)

Result.....: PASS

**TEST REPORT**

Equipment under Test : TWS

Model /Type : eleror T7

Listed Models : N/A

Remark : N/A

Applicant : **Shenzhen Tantio Technology Co.,LTD**

Address : 806, A block, Taojindi Building, Tenlong Road, Longhua district, Shenzhen, China

Manufacturer : **Shenzhen Tantio Technology Co.,LTD**

Address : 806, A block, Taojindi Building, Tenlong Road, Longhua district, Shenzhen, China

|                     |             |
|---------------------|-------------|
| <b>Test Result:</b> | <b>PASS</b> |
|---------------------|-------------|

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

## 1. Revision History

| Revision | Issue Date | Revisions     | Revised By |
|----------|------------|---------------|------------|
| 00       | 2022.02.28 | Initial Issue | Alisa Luo  |
|          |            |               |            |
|          |            |               |            |

## **2. SAR Evaluation**

### **2.1 RF Exposure Compliance Requirement**

#### **2.1.1 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.

#### **2.1.2 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:

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

## 2.1.3 EUT RF Exposure

## Measurement Data

## BT classic

| GFSK             |                            |                            |                       |
|------------------|----------------------------|----------------------------|-----------------------|
| Test channel     | Peak Output Power<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |
|                  |                            |                            | (dBm)                 |
| Lowest(2402MHz)  | -1.55                      | $-1.55 \pm 1$              | -0.55                 |
| Middle(2440MHz)  | -1.15                      | $-1.15 \pm 1$              | -0.15                 |
| Highest(2480MHz) | -1.50                      | $-1.50 \pm 1$              | -0.50                 |

| $\pi/4$ DQPSK    |                            |                            |                       |
|------------------|----------------------------|----------------------------|-----------------------|
| Test channel     | Peak Output Power<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |
|                  |                            |                            | (dBm)                 |
| Lowest(2402MHz)  | -0.93                      | $-0.93 \pm 1$              | 0.07                  |
| Middle(2440MHz)  | -0.52                      | $-0.52 \pm 1$              | 0.48                  |
| Highest(2480MHz) | -1.05                      | $-1.05 \pm 1$              | -0.05                 |

| 8DPSK            |                            |                            |                       |
|------------------|----------------------------|----------------------------|-----------------------|
| Test channel     | Peak Output Power<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |
|                  |                            |                            | (dBm)                 |
| Lowest(2402MHz)  | -0.65                      | $-0.65 \pm 1$              | 0.35                  |
| Middle(2440MHz)  | -0.25                      | $-0.25 \pm 1$              | 0.75                  |
| Highest(2480MHz) | -0.71                      | $-0.71 \pm 1$              | 0.29                  |

| Worst case: 8DPSK |                                                    |                          |       |                     |                        |                       |
|-------------------|----------------------------------------------------|--------------------------|-------|---------------------|------------------------|-----------------------|
| Channel           | Maximum Peak<br>Conducted Output<br>Power<br>(dBm) | Maximum tune-up<br>Power |       | Calculated<br>value | Exclusion<br>threshold | SAR Test<br>Exclusion |
|                   |                                                    | (dBm)                    | (mW)  |                     |                        |                       |
| Middle(2440MHz)   | -0.25                                              | 0.75                     | 1.189 | 0.37                | 3.0                    | Yes                   |

.....THE END OF REPORT.....