



Report No.: TW2104254E File reference No.: 2021-05-06

Applicant: TECHNOFASHION INC.

Product: TRUE WIRELESS STEREO EARBUDS

Model No.: NTWS01

Brand Name: Nautica

Test Standards: FCC Part 15.249

Test result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.10 &FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of

electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: May 06, 2021

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

## SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com

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## **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

## **CNAS-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

## FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

## Industry Canada (IC) —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

## A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

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## Test Report Conclusion

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#### 1.0 General Details

#### 1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.

Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le

Village, Nanshan District, Shenzhen, China

Telephone: (755) 83448688 Fax: (755) 83442996

Site on File with the Federal Communications Commission – United Sates

Registration Number: 744189 For 3m Anechoic Chamber

## 1.2 Applicant Details

Applicant: TECHNOFASHION INC.

Address: 26, Park Street Ste#2340, Montclair, NJ, USA, 07042

Telephone: +1 (347) 510-2340

Fax: --

## 1.3 Description of EUT

Product: TRUE WIRELESS STEREO EARBUDS

Manufacturer: TECHNOFASHION INC.

Address: 26, Park Street Ste#2340, Montclair, NJ, USA, 07042

Brand Name: Nautica
Model Number: NTWS01

Additional Model Name N/A

Hardware Version: XL-H33T-83D-V1.0 2021-3-29

Software Version: 83D4-V111 2104191133

Serial No.: NTWS01202103

Rating: DC5V or Built-in DC3.7V, 30mAh, 0.11Wh Li-ion battery

Modulation Type: GFSK, Pi/4D-QPSK, 8DPSK (Bluetooth)

Operation Frequency: 2402-2480MHz

Channel Separate: 1MHz Channel Number: 79

Antenna Designation PCB antenna with gain 0.94dBi Max (Get from the antenna specification

provided by the applicant)

## 1.4 Submitted Sample: 1 Sample

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#### 1.5 Test Duration

2021-04-19 to 2021-05-06

## 1.6 Test Uncertainty

Conducted Emissions Uncertainty = 3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty = 5%

Conducted Emissions Uncertainty =3.6dB

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

Terry Tang

The sample tested by

Print Name: Terry Tang

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| 2.0 Test Equipment | 2.0 Test Equipment |                      |              |              |            |  |  |
|--------------------|--------------------|----------------------|--------------|--------------|------------|--|--|
| Instrument Type    | Manufacturer       | Model                | Serial No.   | Date of Cal. | Due Date   |  |  |
| ESPI Test Receiver | R&S                | ESPI 3               | 100379       | 2020-06-23   | 2021-06-22 |  |  |
| LISN               | R&S                | EZH3-Z5              | 100294       | 2020-06-23   | 2021-06-22 |  |  |
| LISN               | R&S                | EZH3-Z5              | 100253       | 2020-06-23   | 2021-06-22 |  |  |
| Impuls-Begrenzer   | R&S                | ESH3-Z2              | 100281       | 2020-06-23   | 2021-06-22 |  |  |
| Loop Antenna       | EMCO               | 6507                 | 00078608     | 2018-06-25   | 2021-06-24 |  |  |
| Spectrum           | R&S                | FSIQ26               | 100292       | 2020-06-23   | 2021-06-22 |  |  |
| Horn Antenna       | A-INFO             | LB-180400-KF         | J211060660   | 2020-06-23   | 2021-06-22 |  |  |
| Horn Antenna       | R&S                | BBHA 9120D           | 9120D-631    | 2018-07-09   | 2021-07-08 |  |  |
| Power meter        | Anritsu            | ML2487A              | 6K00003613   | 2020-06-23   | 2021-06-22 |  |  |
| Power sensor       | Anritsu            | MA2491A              | 32263        | 2020-06-23   | 2021-06-22 |  |  |
| Bilog Antenna      | Schwarebeck        | VULB9163             | 9163/340     | 2018-07-04   | 2021-07-03 |  |  |
| 9*6*6 Anechoic     |                    |                      | N/A          | 2020-07-06   | 2021-07-05 |  |  |
| EMI Test Receiver  | RS                 | ESVB                 | 826156/011   | 2020-06-23   | 2021-06-22 |  |  |
| EMI Test Receiver  | RS                 | ESH3                 | 860904/006   | 2020-06-23   | 2021-06-22 |  |  |
| Spectrum           | HP/Agilent         | ESA-L1500A           | US37451154   | 2020-06-23   | 2021-06-22 |  |  |
| Spectrum           | HP/Agilent         | E4407B               | MY50441392   | 2020-06-23   | 2021-06-22 |  |  |
| Spectrum           | RS                 | FSP                  | 1164.4391.38 | 2021-01-16   | 2022-01-15 |  |  |
| RF Cable           | Zhengdi            | ZT26-NJ-NJ-8<br>M/FA |              | 2020-06-23   | 2021-06-22 |  |  |
| RF Cable           | Zhengdi            | 7m                   |              | 2020-06-23   | 2021-06-22 |  |  |
| RF Switch          | EM                 | EMSW18               | 060391       | 2020-06-23   | 2021-06-22 |  |  |
| Pre-Amplifier      | Schwarebeck        | BBV9743              | #218         | 2020-06-23   | 2021-06-22 |  |  |
| Pre-Amplifier      | HP/Agilent         | 8449B                | 3008A00160   | 2020-06-23   | 2021-06-22 |  |  |
| LISN               | SCHAFFNER          | NNB42                | 00012        | 2021-01-06   | 2022-01-05 |  |  |

#### 2.2 Automation Test Software

## For Conducted Emission Test

| Name   | Version           |
|--------|-------------------|
| EZ-EMC | Ver.EMC-CON 3A1.1 |

#### For Radiated Emissions

| Name  | Version |
|---|---------|
| EMI Test Software BL410-EV18.91                 | V18.905 |
| EMI Test Software BL410-EV18.806 High Frequency | V18.06  |

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#### 3.0 Technical Details

## 3.1 Summary of test results

The EUT has been tested according to the following specifications:

| Standard  | Test Type                           | Result | Notes    |
|---|-------------------------------------|--------|----------|
| FCC Part 15, Paragraph 15.207                               | Conducted<br>Emission Test          | PASS   | Complies |
| FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit | Field Strength<br>of<br>Fundamental | PASS   | Complies |
| FCC Part 15, Paragraph 15.209                               | Radiated<br>Emission Test           | PASS   | Complies |
| FCC Part 15 Subpart C Paragraph 15.249(d) Limit             | Band Edge<br>Test                   | PASS   | Complies |

## 3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249, ANSI C63.4:2014 and ANSI C63.10:2013

## 4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

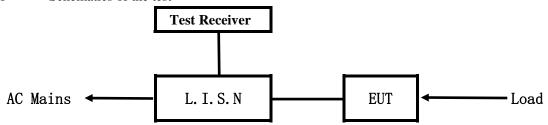
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#### 5. Power Line Conducted Emission Test

## 5.1 Schematics of the test

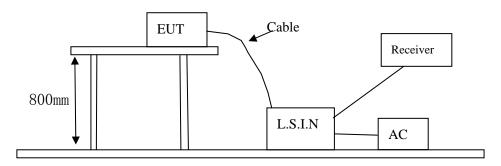


**EUT: Equipment Under Test** 

## 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10 –2013.

#### Block diagram of Test setup



## 5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

One channels are provided to the EUT

## A. EUT

| Device         | Manufacturer       | Model    | FCC ID        |  |
|----------------|--------------------|----------|---------------|--|
| TRUE WIRELESS  | TECHNOFASHION INC. | NTWS01   | 2AZBO-N00003  |  |
| STEREO EARBUDS | TECHNOPASHION INC. | NI W SUI | 2AZDO-1100003 |  |

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#### B. Internal Device

| Device | Manufacturer | Model | FCC ID/DOC |
|--------|--------------|-------|------------|
| N/A    |              |       |            |

#### C. Peripherals

| Device       | Manufacturer | Model           | Rating                            |
|--------------|--------------|-----------------|-----------------------------------|
| Power Supply | KEYU         | KA23-0502000DEU | Input: 100-240V~, 50/60Hz, 0.35A; |
|              |              |                 | Output: DC5V, 2A                  |

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

| Frequency        | Limits (dB $\mu$ V) |               |  |  |
|------------------|---------------------|---------------|--|--|
| (MHz)            | Quasi-peak Level    | Average Level |  |  |
| $0.15 \sim 0.50$ | 66.0~56.0*          | 56.0~46.0*    |  |  |
| $0.50 \sim 5.00$ | 56.0                | 46.0          |  |  |
| 5.00 ~ 30.00     | 60.0                | 50.0          |  |  |

Notes: 1. \*Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

#### 5.6 Test Results:

Pass

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## A: Conducted Emission on Live Terminal (150kHz to 30MHz)

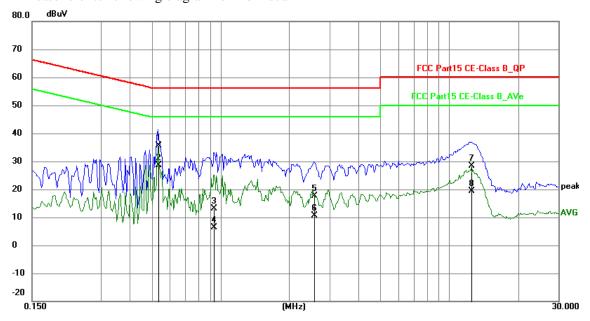
**EUT Operating Environment** 

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging and Communication by BT

Model: NTWS01 Results: PASS

Please refer to following diagram for individual



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Factor<br>(dB) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|-------------------|----------------|-----------------|-----------------|----------------|----------|-----|
| 1   | 0.5322             | 25.95             | 9.77           | 35.72           | 56.00           | -20.28         | QP       | Р   |
| 2   | 0.5322             | 18.85             | 9.77           | 28.62           | 46.00           | -17.38         | AVG      | Р   |
| 3   | 0.9378             | 3.45              | 9.79           | 13.24           | 56.00           | -42.76         | QP       | Р   |
| 4   | 0.9378             | -3.33             | 9.79           | 6.46            | 46.00           | -39.54         | AVG      | Р   |
| 5   | 2.5602             | 7.76              | 9.82           | 17.58           | 56.00           | -38.42         | QP       | Р   |
| 6   | 2.5602             | 0.70              | 9.82           | 10.52           | 46.00           | -35.48         | AVG      | Р   |
| 7   | 12.5043            | 18.01             | 10.27          | 28.28           | 60.00           | -31.72         | QP       | Р   |
| 8   | 12.5043            | 9.02              | 10.27          | 19.29           | 50.00           | -30.71         | AVG      | Р   |

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## B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

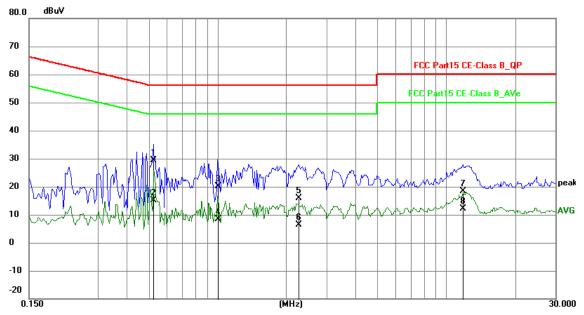
**EUT Operating Environment** 

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Charging and Communication by BT** 

Model: NTWS01 Results: Pass

Please refer to following diagram for individual



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Factor<br>(dB) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|-------------------|----------------|-----------------|-----------------|----------------|----------|-----|
| 1   | 0.5243             | 19.60             | 9.77           | 29.37           | 56.00           | -26.63         | QP       | Р   |
| 2   | 0.5243             | 5.47              | 9.77           | 15.24           | 46.00           | -30.76         | AVG      | Р   |
| 3   | 1.0002             | 10.27             | 9.79           | 20.06           | 56.00           | -35.94         | QP       | Р   |
| 4   | 1.0002             | -1.38             | 9.79           | 8.41            | 46.00           | -37.59         | AVG      | Р   |
| 5   | 2.2677             | 6.10              | 9.81           | 15.91           | 56.00           | -40.09         | QP       | Р   |
| 6   | 2.2677             | -3.34             | 9.81           | 6.47            | 46.00           | -39.53         | AVG      | Р   |
| 7   | 11.8686            | 8.12              | 10.24          | 18.36           | 60.00           | -41.64         | QP       | Р   |
| 8   | 11.8686            | 1.84              | 10.24          | 12.08           | 50.00           | -37.92         | AVG      | Р   |

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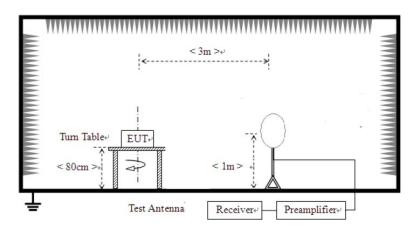


#### **6** Radiated Emission Test

- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz (Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz). Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

## **Block diagram of Test setup**

For radiated emissions from 9kHz to 30MHz



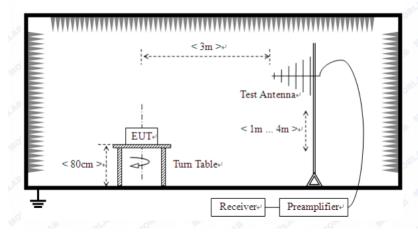
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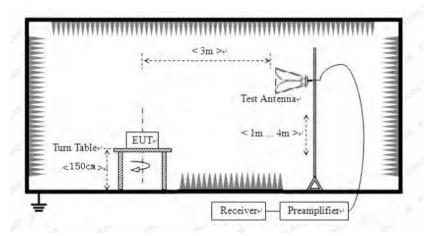
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



- 6.2 Configuration of The EUT

  Same as section 5.3 of this report
- 6.3 EUT Operating Condition

  Same as section 5.4 of this report.

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#### 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

## A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

| Fundamental Frequency | Field Strength of Fundamental (3m) |              |            | Field Strength of Harmonics (3m) |              |           |
|-----------------------|------------------------------------|--------------|------------|----------------------------------|--------------|-----------|
| (MHz)                 | mV/m                               | dBuV/m       |            | uV/m                             | dBuV/m       |           |
| 2400-2483.5           | 50                                 | 94 (Average) | 114 (Peak) | 500                              | 54 (Average) | 74 (Peak) |

Note:

- 1. RF Field Strength (dBuV) = 20 log RF Voltage (uV)
- 2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- 3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

## B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

| Frequency Range (MHz) | Distance (m) | Field strength (dB $\mu$ V/m) |
|-----------------------|--------------|-------------------------------|
| 30-88                 | 3            | 40.0                          |
| 88-216                | 3            | 43.5                          |
| 216-960               | 3            | 46.0                          |
| Above 960             | 3            | 54.0                          |

Note:

- 1. RF Voltage  $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
- 5. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.
- 6. Battery full charged during tests.
- 7. The three modulation modes of GFSK, Pi/4D-QPSK, and 8DPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

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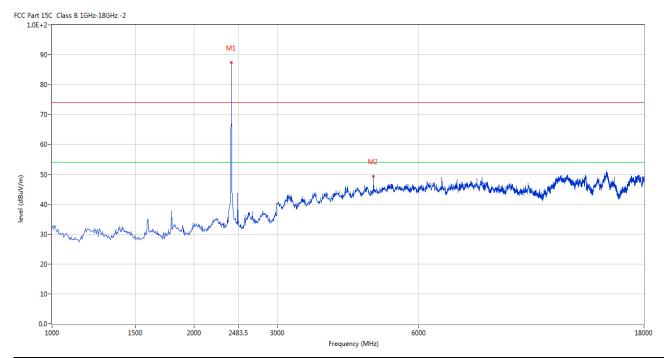


## 6.5 Test result

## A Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-2402MHz

## Horizontal



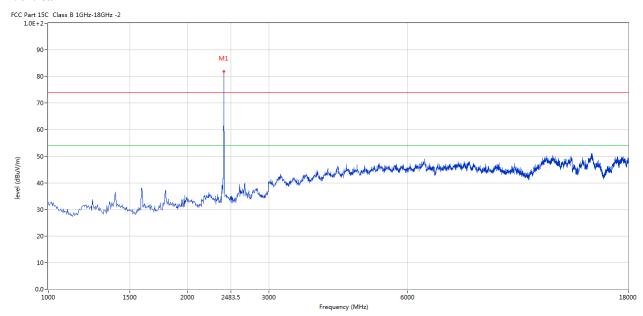
| No. | Frequency | Results  | Factor | Limit    | Over Limit | Detector | Table (o) | Height | ANT        | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|-----------|--------|------------|---------|
|     | (MHz)     | (dBuV/m) | (dB)   | (dBuV/m) | (dB)       |          |           | (cm)   |            |         |
| 1   | 2402.500  | 87.34    | -3.57  | 114.0    | -26.66     | Peak     | 312.00    | 100    | Horizontal | Pass    |
| 2   | 4803.750  | 49.32    | 3.13   | 74.0     | -24.68     | Peak     | 287.00    | 100    | Horizontal | Pass    |

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## Vertical



| Ī | No. | Frequency | Results  | Factor | Limit    | Over Limit | Detector | Table (o) | Height | ANT      | Verdict |
|---|-----|-----------|----------|--------|----------|------------|----------|-----------|--------|----------|---------|
|   |     | (MHz)     | (dBuV/m) | (dB)   | (dBuV/m) | (dB)       |          |           | (cm)   |          |         |
|   | 1   | 2402.500  | 81.84    | -3.57  | 114.0    | -32.16     | Peak     | 140.00    | 100    | Vertical | Pass    |

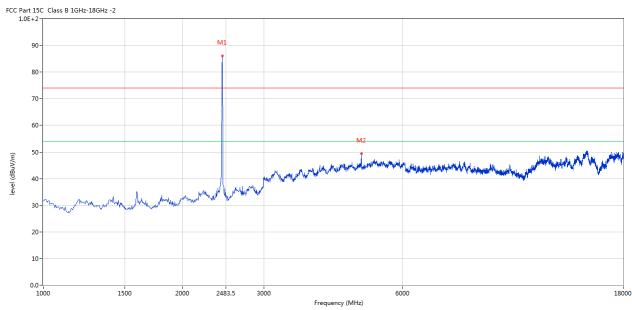
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Please refer to the following test plots for details: High Channel-2441MHz

#### Horizontal



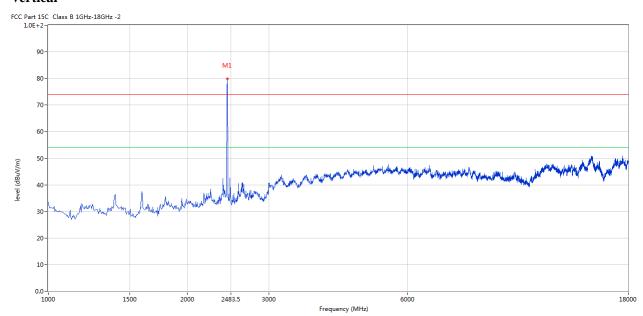
| No. | Frequency | Results  | Factor | Limit    | Over Limit | Detector | Table (o) | Height | ANT        | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|-----------|--------|------------|---------|
|     | (MHz)     | (dBuV/m) | (dB)   | (dBuV/m) | (dB)       |          |           | (cm)   |            |         |
| 1   | 2440.750  | 86.11    | -3.57  | 114.0    | -27.89     | Peak     | 128.00    | 100    | Horizontal | Pass    |
| 2   | 4880.250  | 49.39    | 3.20   | 74.0     | -24.61     | Peak     | 134.00    | 100    | Horizontal | Pass    |

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#### Vertical



| No. | Frequency | Results  | Factor | Limit    | Over Limit | Detector | Table (o) | Height | ANT      | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|-----------|--------|----------|---------|
|     | (MHz)     | (dBuV/m) | (dB)   | (dBuV/m) | (dB)       |          |           | (cm)   |          |         |
| 1   | 2440.750  | 79.93    | -3.57  | 114.0    | -34.07     | Peak     | 27.00     | 100    | Vertical | Pass    |

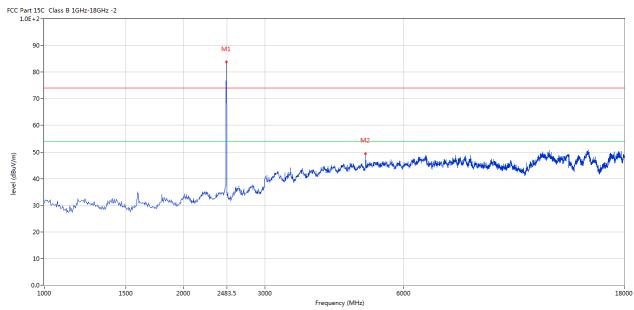
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Please refer to the following test plots for details: High Channel-2480MHz

#### Horizontal



| No. | Frequency | Results  | Factor | Limit    | Over Limit | Detector | Table (o) | Height | ANT        | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|-----------|--------|------------|---------|
|     | (MHz)     | (dBuV/m) | (dB)   | (dBuV/m) | (dB)       |          |           | (cm)   |            |         |
| 1   | 2479.750  | 83.78    | -3.57  | 114.0    | -30.22     | Peak     | 94.00     | 100    | Horizontal | Pass    |
| 2   | 4961.000  | 49.41    | 3.36   | 74.0     | -24.59     | Peak     | 81.00     | 100    | Horizontal | Pass    |

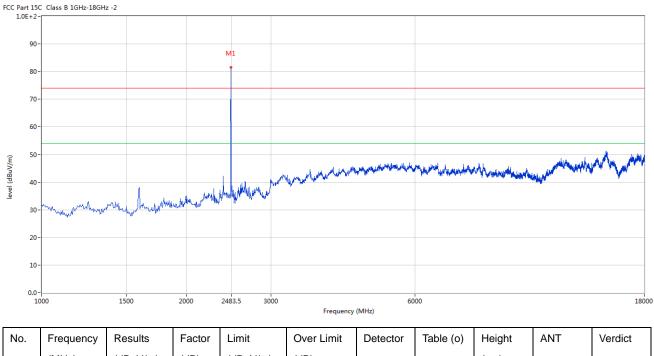
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#### Vertical



| No. | Frequency | Results  | Factor | Limit    | Over Limit | Detector | Table (o) | Height | ANT      | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|-----------|--------|----------|---------|
|     | (MHz)     | (dBuV/m) | (dB)   | (dBuV/m) | (dB)       |          |           | (cm)   |          |         |
| 1   | 2479.750  | 81.09    | -3.57  | 114.0    | -32.91     | Peak     | 70.00     | 100    | Vertical | Pass    |

Note: (2) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

- (3) Margin=Emission-Limits
- (4) According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (5) For test purpose, keep EUT continuous transmitting
- (5) For emission above 18GHz and Below 30MHz, It is only the floor noise. No necessary to take down.
- (6) the measured PK value less than the AV limit.

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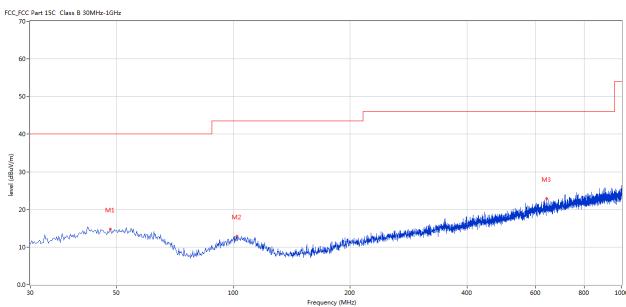


# B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

**Results:** Pass

Please refer to following diagram for individual



|   | No. | Frequency | Results  | Factor | Limit    | Over Limit | Detector | Table (o) | Height | ANT        | Verdict |
|---|-----|-----------|----------|--------|----------|------------|----------|-----------|--------|------------|---------|
|   |     | (MHz)     | (dBuV/m) | (dB)   | (dBuV/m) | (dB)       |          |           | (cm)   |            |         |
| Ī | 1   | 48.183    | 14.81    | -11.26 | 40.0     | -25.19     | Peak     | 360.00    | 100    | Horizontal | Pass    |
|   | 2   | 102.004   | 12.93    | -13.42 | 43.5     | -30.57     | Peak     | 279.00    | 100    | Horizontal | Pass    |
|   | 3   | 640.947   | 22.89    | -4.74  | 46.0     | -23.11     | Peak     | 302.00    | 100    | Horizontal | Pass    |

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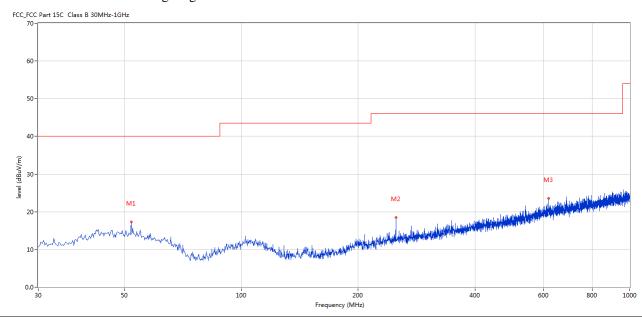


## Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

**Results:** Pass

Please refer to following diagram for individual



| No. | Frequency | Results  | Factor | Limit    | Over Limit | Detector | Table (o) | Height | ANT      | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|-----------|--------|----------|---------|
|     | (MHz)     | (dBuV/m) | (dB)   | (dBuV/m) | (dB)       |          |           | (cm)   |          |         |
| 1   | 52.062    | 17.24    | -11.43 | 40.0     | -22.76     | Peak     | 65.00     | 100    | Vertical | Pass    |
| 2   | 249.893   | 18.44    | -12.08 | 46.0     | -27.56     | Peak     | 10.00     | 100    | Vertical | Pass    |
| 3   | 619.128   | 23.53    | -4.86  | 46.0     | -22.47     | Peak     | 26.00     | 100    | Vertical | Pass    |

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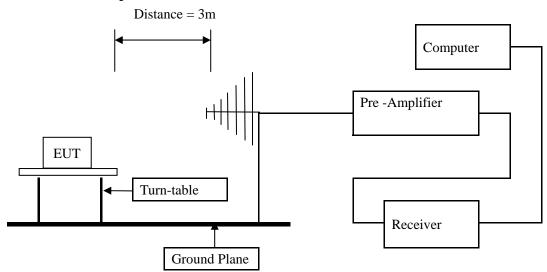


## 7. Band Edge

#### 7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) Set Spectrum as RBW=1MHz, VBW=3MHz and Peak detector used for PK value. RBW=1MHz, VBW=10Hz and Peak detector used for AV value.
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

## 7. 2 Radiated Test Setup



For the actual test configuration, please refer to the related items – Photos of Testing

## 7.3 Configuration of The EUT

Same as section 5.3 of this report

## 7.4 EUT Operating Condition

Same as section 5.4 of this report.

## 7.5 Band Edge Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

The report refers only to the sample tested and does not apply to the bulk.

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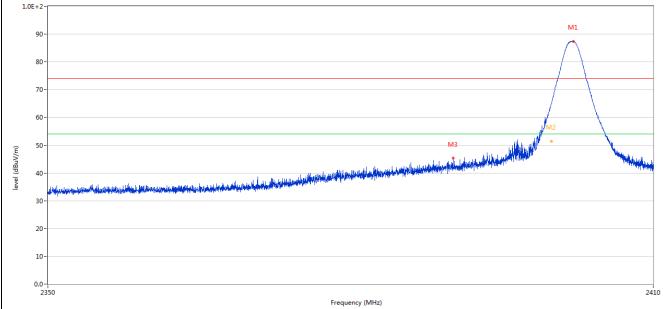
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#### 7.6 Test Result

| 7.6 Test Result                 |                              |              |            |
|---------------------------------|------------------------------|--------------|------------|
| Product:                        | TRUE WIRELESS STEREO EARBUDS | Polarity     | Horizontal |
| Mode                            | Keeping Transmitting         | Test Voltage | DC3.7V     |
| Temperature                     | 24 deg. C,                   | Humidity     | 56% RH     |
| Test Result:                    | Pass                         |              | -1         |
| FCC Part 15C Class B 1GHz-18GHz | -2                           |              | M1         |
| 80-                             |                              |              |            |



| N | o. | Frequency | Results  | Factor | Limit    | Over Limit | Detector | Table (o) | Height | ANT        | Verdict |
|---|----|-----------|----------|--------|----------|------------|----------|-----------|--------|------------|---------|
|   |    | (MHz)     | (dBuV/m) | (dB)   | (dBuV/m) | (dB)       |          |           | (cm)   |            |         |
| 2 |    | 2399.995  | 62.40    | -3.57  | 74.0     | -11.60     | Peak     | 295.00    | 100    | Horizontal | Pass    |
| 2 | ** | 2399.995  | 50.77    | -3.57  | 54.0     | -3.23      | AV       | 295.00    | 100    | Horizontal | Pass    |
| 3 |    | 2389.990  | 45.31    | -3.53  | 74.0     | -28.69     | Peak     | 292.00    | 100    | Horizontal | Pass    |

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| Pr  | oduct:   | TRUE W   | TRELES   | S STEREO   | EARBUDS  | Detec  | tor                                      | ,  | Vertical |  |
|---|--|--|--|--|--|--|--|--|----------|--|
| N   | Mode   |  | Keeping  | g Transmitti   | ng   | Test Vol   | ltage                                    | I  | DC3.7V   |  |
| Tem   | perature   |  | 24   | 4 deg. C,  |  | Humid  | lity                                     | 5  | 56% RH   |  |
| Test  | t Result:  |  |  | Pass   |  |  |  |  |          |  |
| Part 15C<br>1.0E+2-                             | Class B 1GHz-18GHz                                 | -2   |  |  |  |  |  |  |          |  |
| 90-   |  |  |  |  |  |  |  |  |          |  |
|   |  |  |  |  |  |  |  |  | M1       |  |
| 80-   |  |  |  |  |  |  |  |  |          |  |
| 70-   |  |  |  |  |  |  |  |  | /_\_     |  |
|   |  |  |  |  |  |  |  | ſ  | \        |  |
| 60-   |  |  |  |  |  |  |  | /  | \        |  |
| 50-   |  |  |  |  |  |  | .M3 .                                    | /A2  |          |  |
| 50-   |  |  |  |  |  |  | M3                                       |  |          |  |
| 50 <b>-</b>                                     | angli tanda na na kata kata kata kata kata kata ka | ariskais praktimos kiela stalikuriska s  | i de la companya da la companya da la companya da la companya da c | ad to the options of the options of the  | the state of the s | LANGE OF THE PARTY | M3                                       | MARINE NO.   |          | the and the land and the   |
| 50-   | ngi kalangan dan pada dalah san s                  | egidegyjállasátálastasát   | understein der   | nd Louis is bistorio de la constitución de la const | the state of the s | ades of the state  | M3                                       | Maria Maria Maria Cara Cara Cara Cara Cara Cara Cara   |          | the addition to the  |
| 50 <b>-</b>                                     | ngikladise osekanjad inderese                      | agalaga, palitaga kirkka kirkkaya sa d   | n daga daga daga daga daga daga daga dag   | ndi koluyi shiqinin dabkan di  | the property of the same of th | and the second second second second  |  | MATTER STATE OF THE STATE OF TH |          | the state of the s |
| 50 -<br>40 -<br>30 -                            | ngkinden genden da katalangan                      | and the state of t | ungha panda kapakaba   | ndistantin distantin di dan pila   | elistinas illeritation and the same better   | adental aleman   | M3 I I I I I I I I I I I I I I I I I I I | AND STATE OF THE PARTY OF THE P |          | the addition to the same of th |
| 50<br>40<br>30<br>20<br>10                      | ngibitalisi pandanjaka kalaka energi               | egiden jalluselide tildas es si  | n saglese Polon del servició de dels   | nd Leiny is higher a das kan a li  | the party of the same  |  |  | MARIAN MARIANTA O  |          |  |
| 50<br>40-<br>30-<br>20                          | 50   | agalegy, politica picket a tick bey con th   | ingkantantiya dah  | ndi kulusi ya histori ista ista merika   | Frequency (MHz   |  |  | MATERIAL PROPERTY OF THE PROPE |          | 2410   |
| 50-<br>40-<br>30-<br>20-<br>10-<br>0.0-<br>23:  | 50<br>Frequency                                    | Results  | Factor   | Limit  |  |  | Table (o)                                | Height   | ANT      | 2410   |
| 50-<br>40-<br>30-<br>20-<br>10-<br>0.0-,<br>23: |  | Results<br>(dBuV/m)  | Factor<br>(dB)   | Manufacture (Act of the Control of t | Frequency (MHz   | )  | Table (o)                                | Height (cm)  |          | 2410   |
| 50<br>40<br>30<br>20<br>10                      | Frequency  |  |  | Limit  | Frequency (MHz   | )  | Table (o)                                | _  |          |  |
| 50<br>40<br>30<br>10<br>0.0<br>23:              | Frequency<br>(MHz)                                 | (dBuV/m)   | (dB)   | Limit<br>(dBuV/m)  | Frequency (MHz Over Limit (dB)   | Detector   |  | (cm)   | ANT      | 2410<br>Verdic   |

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| Pı                                     | roduct:                                      | TRUE W   | TRELES   | S STEREO          | EARBUDS                   | Polari  | ty   |  | Horizontal   |                          |
|--|--|--|--|-------------------|---------------------------|---|--|--|--|--------------------------|
| I                                      | Mode   |  | Keeping  | g Transmitti      | ng                        | Test Vol  | tage   |  | DC3.7V   |                          |
| Ten                                    | nperature                                    |  | 24   | deg. C,           |                           | Humid   | ity  | 56% RH   |  |                          |
| Tes                                    | t Result:                                    |  |  | Pass              |                           |   |  |  |  |                          |
| C Part 15C                             | C Class B 1GHz-18GHz                         | -2   |  |                   |                           |   |  |  |  |                          |
| 90 -<br>80 -<br>70 -                   |  |  |  |                   |                           |   |  |  |  |                          |
|  |  |  |  | X                 |                           |   |  |  |  |                          |
| 50 <b>-</b>                            | investille delle persone addition des d      | here the state of  | A STATE OF THE STA |                   | No. of the second second  | atilities belongs to the second state of the s          | ok prik pilik olik ori, mija kan poro anj pira     | المناطلان المراجع والمعارفة والمناط  | approprieta de la fina | hadrede by salding       |
| 50 -<br>40 -<br>30 -                   | માં ભાગમાં આવેલું અને માન કરવા છે. આ માને મે | history of the literature of the contract of t |  |                   | The second second         | white he safe with the my   | delalidistica menutud                              | والمراجع وا   | ann gelle side side side a san glas his la base  | sephonificating and time |
| 40-                                    | have milit fellips for a still be deaded     | indeletti tili tili tili tili tili tili til  |  |                   | The second second         | <del>witers Life and a collection</del>   | rkalpsiladisələri miyabayarındırı d                | hindhun dan dan  | nerothide distributed annihilation of  | kada afu diyadida        |
| 40 -<br>30 -                           | have might helipped by a plicible had a de-  | under de le le le constitue de   |  |                   | The second second         | militari kalender disperien   | niyakali bili sali sali sali sali sali sali sali s | interestation of the state of t | gere eller die des des des des ausgescheides des sei   | hada afii a ki ga aki ka |
| 30-<br>20-<br>10-                      |  | ikadele (i filipi kunsusi kisaria)   |  |                   | 2483.5<br>Frequency (MHz) | <del>ari firmi katan</del> en esta en en esta e | Makalankari menangan                               | interest the second   | properties als the defendance printed in the local   | 2500                     |
| 40-<br>30-<br>20-<br>10-<br>0.0-<br>24 |  | Results  | Factor   | Limit             | 2483.5                    | Detector  | Table (o)  | Height   | ANT  |                          |
| 30-<br>20-<br>10-                      | 770  |  | Factor (dB)  | Limit<br>(dBuV/m) | 2483.5<br>Frequency (MHz) |   |  |  |  | 2500                     |

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| P   | roduct:  | TRUE W   | IRELES   | S STEREO       | EARBUDS  | Detec  | tor   |  | Vertical   |                 |
|---|--|--|--|----------------|--|--|---|--|--|-----------------|
|   | Mode   |  | Keeping  | g Transmitti   | ng   | Test Vol   | tage  |  | DC3.7V   |                 |
| Ten   | mperature  |  | 24   | 4 deg. C,      |  | Humic  | lity  | 56% RH   |  |                 |
| Tes   | st Result:   |  |  | Pass           |  |  |   |  |  |                 |
| C Part 150<br>1.0E+2                          | C Class B 1GHz-18GHz   | -2   |  |                |  |  |   |  |  |                 |
| 90-   |  |  |  |                |  |  |   |  |  |                 |
|   |  |  |  |                |  |  |   |  |  |                 |
| 80-   |  |  | /  |                |  |  |   |  |  |                 |
| 70-   |  |  |  |                |  |  |   |  |  |                 |
|   |  |  | /  | \              |  |  |   |  |  |                 |
| 60-   |  |  |  |                |  |  |   |  |  |                 |
|   |  | . 4  | Jan  |                |  |  |   |  |  |                 |
|   |  | ikanda dipikan industrak   |  |                | - Addition   |  | Values fingliffer of reglets fifty  | Maril Marie Control  | of the light and the state of t | h, hudosopple   |
|   | olatei olekaa pirittii dajai dalah   | through the spelled wheel he   | June 1   |                | and the state of t |  | Marine Haller de Labert fight   | gio i i de la collección de la collecció | afigliphed ha desptable has problem.   | h.Juntungskutes |
| 50-<br>40-                                    | ahdajirdajagiddhidgiddiajli  | Hadiadahin selah berketak  |  |                | and the state of t |  | Villamitally depth figh   | pio idilahan dan dadah   | Andred a deceleration principal  | in description  |
| 40-   | ahdajirdiyayiddindgooddayb   | it nette de plante spellede plante de la constante de la const | por la constantina de la constantina della const |                | and the second   | oppedalisation de la la  | h <sup>a</sup> l Statemen (Mediller) et legislet (Medill | pirithikanilar fedati  | other free free free free free free free f   | h.Jankrayabh    |
| 30-<br>20-                                    | ahdajirdajipiddhidgoodiin,h  | il vedin di plane redikolo oberbe <sup>k</sup>   |  |                | and the best of the second sec | ing and the second an | ki panon ligaliko da ajata fijali   | rishlikeriker kedali   | Applyand to describe the American Principal  | h.Juntangah     |
| 50·<br>40·<br>30·<br>20·<br>10·               | ahdajirdajipiddhidgoodiin,h  | il vedit di plate pod kode ode ode ode ode ode ode ode ode ode   |  |                | 2483.5<br>Frequency (MHz)  | ing and the second an | k <sup>a</sup> jatan <del>(kgill</del> ede) alajati fijol   | distillation fred the  | Applyton () to describe the describe of the office   | 2500            |
| 50-<br>40-<br>30-<br>20-<br>10-<br>0.0-<br>24 | akda kir dalam pindibik da sadibik d   | Results  | Factor   | Limit          |  | Detector   | Table (o)   | Height   | ANT  | 2500<br>Verdict |
| 30-<br>20-<br>10-                             | And the shape of t | Results<br>(dBuV/m)  | Factor (dB)  | Limit (dBuV/m) | Frequency (MHz)  |  | Table (o)   | Height (cm)  | ANT  |                 |

Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.

- 2. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
- 3. The three modulation modes of GFSK, Pi/4D-QPSK, and 8DPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

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## 8.0 Antenna Requirement

## **Applicable Standard**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

This product has a PCB antenna. The antenna gain is 0.94dBi Max. It fulfills the requirement of this section. Test Result: Pass

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| Product:                  |  |       |            |         |           |           |  |      |                |                     |   |
|---------------------------|--|-------|------------|---------|-----------|-----------|--|------|----------------|---------------------|---|
|                           | TRUE W   | IRELE | SS STER    | EO EARB | UDS       | Te        | est Mode:  |      | Keep tran      | nsmitting           |   |
| Mode Keeping Transmitting |  |       |            |         |           | Te        | st Voltage   |      | DC3            | 3.7V                |   |
| emperature                |  | 2     | 24 deg. C, |         |           | Humidity  |  |      | 56%            | RH                  |   |
| Test Result:              | Pass   |       |            |         |           | Detector  |  |      | P              | K                   |   |
| IB Bandwidth              | 781.56kHz  |       |            |         |           |           |  |      |                | -                   |   |
| Ref Lvl                   | Marker 1 [T1 ndB]  ndB 20.00 dB  BW 781.56312625 kHz |       |            |         | VI        | RBW 30 k. |  | Hz   | F Att          | 20 dB               |   |
| 10 dBm                    | BV   | 781   | .563126    | 525 kHz | SI        | VT        | 8.5 m  | s Ui | nit            | dBr                 | n |
|                           |  |       |            |         |           |           | $\blacktriangledown_1$   | [T1] | -3             | l.08 dBm            | n |
| 0                         |  |       |            | ]       |           |           |  |      | 2.40199        | 699 GHz             | 3 |
|                           |  |       |            | W       | Λ.        |           | ndB<br>BW  | 7.9  | 20<br>1.56312  | 0.00 dB<br>2625 kHz |   |
| 10                        |  |       |            |         | $\bigvee$ |           | $oldsymbol{ abla}_{	ext{T}1}$  |      | -20            |                     |   |
| 10                        |  |       |            | $\sim$  | 0         | 7         |  |      | 2.40161        | 824 GHz             | 3 |
|                           |  |       | TA         |         |           | V         | $\nabla_{\mathrm{T2}}$   | [T1] | -21            | l.11 dBm            | n |
| 1MAX                      |  |       |            |         |           |           |  |      | 2.40239        | 980 GHz             | 1 |
| 30                        |  | \-\-\ | /          |         |           |           | , and the second | ٦_   |                |                     |   |
| 40                        |  |       |            |         |           |           |  |      | M              |                     |   |
| 50 444                    |  |       |            |         |           |           |  | V    | L <sub>M</sub> | lahar Langu         | u |
| 60                        |  |       |            |         |           |           |  |      |                |                     |   |
| 70                        |  |       |            |         |           |           |  |      |                |                     |   |
| 80                        |  |       |            |         |           |           |  |      |                |                     | - |
| 90 Center 2.              |  |       |            |         | kHz/      |           |  |      |                | an 3 MHz            |   |

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| Product:      | TRUE                                    | WIRELES | SS STERE  | O EARBU    | JDS  | Т  | est Mode:                        |            | Keep tra       | nsmitting    |     |
|---------------|---|---------|-----------|------------|------|----|----------------------------------|------------|----------------|--------------|-----|
| Mode          |   | Keepin  | g Transmi | tting      |      | Т  | est Voltage                      |            | DC             | 3.7V         |     |
| Temperature   |   | 2       | 4 deg. C, |            |      | ]  | Humidity                         |            | 56% RH         |              |     |
| Test Result:  |   |         | Pass      |            |      |    | Detector                         |            | I              | PK           |     |
| OdB Bandwidth |   | 78      | 31.56kHz  |            |      |    |                                  |            |                |              |     |
| Ŕ             |   | Marker  | 1 [T1 n   | ndB]       | R    | BW | 30 kF                            | Iz RI      | 7 Att          | 20 dB        |     |
| Ref Lvl       |   | ndB     |           | 00 dB      | V    | BW | 100 kF                           |            |                |              |     |
| 10 dBm        |   | BW 781  | 1.563126  | 25 kHz     | S    | WT | 8.5 ms                           | . Ur       | nit            | dBm          | ı   |
| 10            |   |         |           |            |      |    | <b>v</b> <sub>1</sub>            | [T1]       | -1             | .55 dBm      | A   |
|               |   |         |           | 1          |      |    |                                  |            | 2.44099        | 699 GHz      |     |
| 0             |   |         |           | ^~/        | \ ^  |    | ndB                              | 7.0        | 20             | .00 dB       |     |
|               |   |         |           |            | V    |    | $oldsymbol{	riangle}_{	ext{T1}}$ | 78<br>[T1] | 1.56312<br>-21 | 625 kHz      |     |
| -10           |   |         |           |            | V    | ٦  |                                  |            | 2.44061        |              |     |
|               |   |         | TA        | <b>/</b> • |      | V  | $\nabla_{\mathbf{T}2}$           | [T1]       | -21            | .58 dBm      |     |
| -20           |   |         | <b>√</b>  |            |      |    | No.                              |            | 2.44139        | 980 GHz      | 1M2 |
|               |   |         | كهير      |            |      |    | ~\                               |            |                |              |     |
| -30           |   | ^       | /         |            |      |    |                                  | \          |                |              |     |
|               |   | $\sim$  |           |            |      |    |                                  | lη.        |                |              |     |
| -40           |   |         |           |            |      |    |                                  | 1          |                |              |     |
|               | /\_\                                    | _ /     |           |            |      |    |                                  | Ψ, (       | ~~~            |              |     |
| -50           | Jun | 4       |           |            |      |    |                                  | V          | M.             |              |     |
| V             |   |         |           |            |      |    |                                  |            | *              | Linkey       |     |
| -60           |   |         |           |            |      |    |                                  |            |                |              |     |
|               |   |         |           |            |      |    |                                  |            |                |              |     |
| -70           |   |         |           |            |      |    |                                  |            |                |              |     |
|               |   |         |           |            |      |    |                                  |            |                |              |     |
| -80           |   |         |           |            |      |    |                                  |            |                |              |     |
|               |   |         |           |            |      |    |                                  |            |                |              |     |
| -90 Center 2  |   |         |           |            |      |    |                                  |            | Cn o           | n 3 MHz      |     |
|               | .441 G                                  | .12     |           | 300        | kHz/ |    |                                  |            | ъра            | .11 5 171172 |     |

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| Product:       | TRUE              | WIRELES     | SS STERE  | O EARBU | JDS       | Т  | est Mode:                |      | Keep tra       | ansmitting         |     |
|----------------|-------------------|-------------|-----------|---------|-----------|----|--------------------------|------|----------------|--------------------|-----|
| Mode           |                   |             | g Transmi |         |           |    | est Voltage              |      |                | 23.7V              |     |
| Temperature    |                   |             | 4 deg. C, |         |           |    | Humidity                 |      |                | % RH               |     |
| Test Result:   |                   |             | Pass      |         |           |    | Detector                 |      |                | PK                 |     |
| 20dB Bandwidth |                   | 78          | 37.58kHz  |         |           |    |                          |      |                |                    |     |
|                | Marker 1 [T1 ndB] |             |           |         |           | BW | 30 kHz                   | : RI | F Att          | 20 dB              |     |
| Ref Lvl        |                   | ndB         | 20.       | 00 dB   | V         | BW | 100 kHz                  | :    |                |                    |     |
| 10 dBm         |                   | BW 787      | 7.575150  | 30 kHz  | S         | WT | 8.5 ms                   | Uı   | nit            | dBm                | L   |
| 10             |                   |             |           |         |           |    | <b>v</b> <sub>1</sub> [  | г1]  | -2             | .34 dBm            |     |
|                |                   |             |           |         |           |    |                          |      | 2.47999        | 699 GHz            | A   |
| 0              |                   |             |           | . 7     |           |    | ndB                      |      | 20             | .00 dB             |     |
|                |                   |             |           |         | $\Lambda$ |    | BW<br>V-                 | 78   | 7.57515        |                    |     |
| -10            |                   |             |           |         | 1         | 7  | $ abla_{\mathrm{T1}}$    | [T1] | -22<br>2.47961 | .65 dBm<br>222 GHz |     |
|                |                   |             | /         | $\sim$  |           | ٦, | <b>,</b> ∇ <sub>T2</sub> | [T1] | -22            | .64 dBm            |     |
| -20            |                   |             |           |         |           | Ť  | <u>√√2</u>               |      | 2.48039        | 980 GHz            |     |
| 1MAX           |                   |             |           |         |           |    | hy                       |      |                |                    | 1MA |
| -30            |                   |             |           |         |           |    | <u> </u>                 |      |                |                    |     |
| 4.0            |                   | $\sqrt{}$   |           |         |           |    | $\searrow$               | ٣    |                |                    |     |
| -40            |                   | ر           |           |         |           |    |                          |      | $\sim$         |                    |     |
| -50            | and a             | <b>&gt;</b> |           |         |           |    |                          | V    | W              | wheny              |     |
| -60            |                   |             |           |         |           |    |                          |      |                |                    |     |
| -70            |                   |             |           |         |           |    |                          |      |                |                    |     |
|                |                   |             |           |         |           |    |                          |      |                |                    |     |
| -80            |                   |             |           |         |           |    |                          |      |                |                    |     |
|                |                   |             |           |         |           |    |                          |      |                |                    |     |
| -90 Contor 2   |                   |             |           |         | kHz/      |    |                          |      | G              | n 2 MII-           |     |
| Center 2       | Center 2.48 GHz   |             |           |         |           |    |                          |      | Spa            | n 3 MHz            |     |

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| Pi/4D-QPSK M    | Iodulatio | n       |                     |         |      |                      |                                       |           |               |                    |      |
|-----------------|-----------|---------|---------------------|---------|------|----------------------|---------------------------------------|-----------|---------------|--------------------|------|
| Product:        | TRUE V    | WIRELES | S STERE             | O EARBU | JDS  | Т                    | est Mode:                             |           | Keep tra      | ansmitting         |      |
| Mode            |           | Keeping | g Transmi           | tting   |      | Te                   | est Voltage                           | ;         | DC            | 23.7V              |      |
| Temperature     |           | 24      | 4 deg. C,           |         |      | ]                    | Humidity                              |           | 569           | % RH               |      |
| Test Result:    |           |         | Pass                |         |      |                      | Detector                              |           | ]             | PK                 |      |
| 20dB Bandwidth  |           | 1.      | 208MHz              |         |      |                      |                                       |           |               |                    |      |
| Ŕ               | 1         | Marker  | 1 [T1 n             | ndB]    | R    | BW                   | 30 k                                  | Hz R      | F Att         | 20 dB              |      |
| Ref Lvl         | 1         | ndB     | 20.                 | 00 dB   | V    | BW                   | 100 k                                 |           |               |                    |      |
| 10 dBm          |           | BW 1    | .208416             | 83 MHz  | SI   | TW                   | 8.5 m                                 | s U:      | nit           | dBm                | ı    |
|                 |           |         |                     |         |      |                      | <b>v</b> <sub>1</sub>                 | [T1]      | -1            | .23 dBm            | A    |
|                 |           |         |                     | 1       |      |                      |                                       |           | 2.40199       | 699 GHz            |      |
| 0               |           |         |                     | ^ /     |      |                      | ndE                                   | 3         | 20            | .00 dB             |      |
|                 |           |         |                     |         | \    |                      | BW $\nabla_{\mathrm{T}}$              | [T1]      | 1.20841       | 683 MHz            |      |
| -10             |           |         | ~~^                 | ~ \ \   | ~~/  | $\mathcal{J}^{\sim}$ | Ma                                    | _ [ + + ] | 2.40137       | .14 dBm<br>776 GHz |      |
|                 |           | тэ      | $\int_{0}^{\infty}$ |         |      |                      | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | g [T1]    | -21           | .00 dBm            |      |
| -20<br>1W2V     |           | 7       | •                   |         |      |                      | V                                     | \         | 2.40258       | 617 GHz            | 1363 |
| 1MAX            |           |         |                     |         |      |                      |                                       | 7         |               |                    | 1MA  |
| -30             |           |         |                     |         |      |                      |                                       |           |               |                    |      |
| -40             | . ^/      | V       |                     |         |      |                      |                                       | M         | $\mathcal{N}$ |                    |      |
| -50             |           |         |                     |         |      |                      |                                       | V         | M             | My LAND            |      |
| -60             |           |         |                     |         |      |                      |                                       |           |               |                    |      |
| -70             |           |         |                     |         |      |                      |                                       |           |               |                    |      |
| -80             |           |         |                     |         |      |                      |                                       |           |               |                    |      |
| -90<br>Center 2 | .402 GH   | z       |                     | 300     | kHz/ |                      |                                       |           | Spa           | ın 3 MHz           |      |
| Date: 28        | 3.APR.20  | 021 13  | :34:55              |         |      |                      |                                       |           |               |                    |      |

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| Product:      | TRUE V              | VIRELES     | SS STERE  | O EARBU  | JDS           | T                      | est Mode:             |               | Keep tra         | nsmitting    |    |
|---------------|---------------------|-------------|---|----------|---------------|------------------------|-----------------------|---------------|------------------|--------------|----|
| Mode          |                     | Keepin      | g Transmi   | tting    |               | Te                     | est Voltage           |               | DC3.7V<br>56% RH |              |    |
| Temperature   |                     | 2           | 4 deg. C,   |          |               | ]                      | Humidity              |               |                  |              |    |
| Test Result:  |                     |             | Pass  |          |               |                        | Detector              |               | F                | PK           |    |
| 0dB Bandwidth |                     | 1.          | 214MHz  |          |               |                        |                       |               |                  |              |    |
| Ŕ             | ľ                   | Marker      | 1 [T1 n   | ndB]     | R             | BW                     | 30 kH                 | z RI          | 7 Att            | 20 dB        |    |
| Ref Lvl       | 1                   | ndB         |   | 00 dB    | V             | BW                     | 100 kH                |               |                  |              |    |
| 10 dBm        | I                   | BW 1        | .214428   | 886 MHz  | S             | WT                     | 8.5 ms                | Ur            | nit              | dBm          | 1  |
|               |                     |             |   |          |               |                        | <b>v</b> <sub>1</sub> | [T1]          | -1               | .62 dBm      | A  |
|               |                     |             |   | 1        |               |                        |                       |               | 2.44099          | 699 GHz      |    |
| 0             |                     |             |   | ^ /      |               |                        | ndB                   |               | 20               | .00 dB       |    |
|               |                     |             |   |          | \ _           |                        | BW VT1                | [T1]          | 1.21442          | 886 MHz      |    |
| -10           |                     |             | $\sim$  | <b>7</b> | $\rightarrow$ | $\mathcal{I}^{\wedge}$ | ma                    |               | 2.44037          | 776 GHz      |    |
|               |                     | do J        | $\int_{0}^{\infty} \int_{0}^{\infty} \int_{0$ |          |               |                        | ~ √ <del>1</del> 2    | [T1]          | -22              | .02 dBm      |    |
| -20           |                     | 7           | *   |          |               |                        | <b>1</b>              |               | 2.44159          | 218 GHz      | 1M |
| IMAX          |                     |             |   |          |               |                        | \                     | ٦             |                  |              | I  |
| -30           |                     |             |   |          |               |                        |                       | <del>\</del>  |                  |              |    |
|               |                     | /           |   |          |               |                        |                       |               |                  |              |    |
| -40           | ,                   | $\frac{}{}$ |   |          |               |                        |                       | $\overline{}$ |                  |              |    |
|               | $\wedge$            | W           |   |          |               |                        |                       |               | <b>L</b> \       |              |    |
| -50           | ^ <del>~</del> / \/ |             |   |          |               |                        |                       | •             | W                | YM,          |    |
| V.            |                     |             |   |          |               |                        |                       |               | •                | and the same |    |
| -60           |                     |             |   |          |               |                        |                       |               |                  |              |    |
|               |                     |             |   |          |               |                        |                       |               |                  |              |    |
| -70           |                     |             |   |          |               |                        |                       |               |                  |              |    |
|               |                     |             |   |          |               |                        |                       |               |                  |              |    |
| -80           |                     |             |   |          |               |                        |                       |               |                  |              |    |
|               |                     |             |   |          |               |                        |                       |               |                  |              |    |
| -90           | -90                 |             |   |          |               |                        |                       |               |                  |              |    |
| Center 2      | .441 GH             | z           |   | 300      | kHz/          |                        |                       |               | Spa              | n 3 MHz      |    |

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| Product:        | TRUE                           | WIRELES          | SS STERE  | O EARBU                                   | JDS         | T  | est Mode:                     |        | Keep tra       | nsmitting          |    |
|-----------------|--------------------------------|------------------|-----------|---|-------------|----|-------------------------------|--------|----------------|--------------------|----|
| Mode            |                                | Keepin           | g Transmi | tting                                     |             | Те | est Voltage                   |        | DC             | 3.7V               |    |
| Temperature     |                                | 2                | 4 deg. C, |   |             | ]  | Humidity                      | 56% RH |                |                    |    |
| Test Result:    |                                |                  | Pass      |   |             |    | Detector                      |        | I              | PK                 |    |
| 20dB Bandwidth  |                                | 1.               | .214MHz   |   |             |    |                               |        |                |                    |    |
| Ŕ               | Marker 1 [T1 ndB] ndB 20.00 dB |                  |           |   |             | BW | 30 kH                         | z RI   | 7 Att          | 20 dB              |    |
| Ref Lvl         |                                |                  |           |   |             | BW | 100 kH                        |        |                |                    |    |
| 10 dBm          |                                | BW 1             | L.214428  | 886 MHz                                   | S           | WT | 8.5 ms                        | Ur     | nit            | dBm                | ı  |
| 10              |                                |                  |           |   |             |    | <b>v</b> <sub>1</sub> [       | T1]    | -2             | .34 dBm            | A  |
|                 |                                |                  |           |   |             |    |                               |        | 2.47999        | 699 GHz            | A  |
| 0               |                                |                  |           | A 7                                       |             |    | ndB                           |        | 20             | .00 dB             |    |
|                 |                                |                  |           | $  \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$ | $\setminus$ |    | $oldsymbol{ abla}_{	ext{T1}}$ |        | 1.21442        | 886 MHz            |    |
| -10             |                                |                  | - 4 0 \   |   | $\Delta$    | m  | My TT                         | [T1]   | -22<br>2.47937 | .11 dBm<br>776 GHz |    |
|                 |                                |                  |           | <b>~</b>                                  | \           |    |                               | [T1]   | -22            | .46 dBm            |    |
| -20             |                                | T.               | V         |   |             |    | +2                            |        | 2.48059        | 218 GHz            |    |
| 1MAX<br>-30     |                                |                  |           |   |             |    |                               | 1      |                |                    | 1M |
|                 |                                |                  |           |   |             |    |                               |        |                |                    |    |
| -40             | Λ                              | $\wedge \sqrt{}$ |           |   |             |    |                               | M      | L /\           |                    |    |
| -50             |                                |                  |           |   |             |    |                               |        | M              | We want            |    |
| -60             |                                |                  |           |   |             |    |                               |        |                | •                  |    |
| -70             |                                |                  |           |   |             |    |                               |        |                |                    |    |
| -80             |                                |                  |           |   |             |    |                               |        |                |                    |    |
| -90<br>Center 2 |                                |                  |           | 300                                       | kHz/        |    |                               |        | G              | n 3 MHz            |    |

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| Product:      | TRUE           | WIRELE | SS STERE                               | O EARBU                                | JDS  | Test M  | ode:                  |               | Keep tra      | ansmitting                              |     |
|---------------|----------------|--------|--|--|------|---------|-----------------------|---------------|---------------|---|-----|
| Mode          |                | Keepin | g Transmi                              | tting                                  |      | Test Vo | tage                  |               | DC            | 23.7V                                   |     |
| Temperature   |                | 2      | 4 deg. C,                              |  |      | Humio   | lity                  | 56% RH        |               |   |     |
| Test Result:  |                |        | Pass                                   |  |      | Detec   | tor                   |               | ]             | PK                                      |     |
| 0dB Bandwidth |                | 1      | 1.208MHz                               |  |      |         |                       |               |               |   |     |
| Ŕ             | ndB 20.00 dB 7 |        |  |  |      | W 3     | 0 kHz                 | R             | F Att         | 20 dB                                   |     |
| Ref Lvl       |                |        |  |  |      |         | 0 kHz                 |               |               |   |     |
| 10 dBm        |                | BW I   | 1.208416                               | 83 MHz                                 | SW   | т 8.    | 5 ms                  | Uı            | nit           | dBm                                     | ı   |
|               |                |        |  |  |      |         | <b>V</b> 1 [3         | r1]           | -1            | .22 dBm                                 | A   |
|               |                |        |  | _1                                     |      |         |                       |               | 2.40199       | 699 GHz                                 |     |
| 0             |                |        |  | ^ /                                    | \    |         | ndB                   |               | 20            | .00 dB                                  |     |
|               |                |        |  | $  \   \   \   \  $                    | \ _  |         | BW<br>▼ <sub>T1</sub> | T11           | 1.20841       | .683 MHz                                |     |
| -10           |                |        | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | ~\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | ~/~  | ~~~~    | \                     |               | 2.40137       |   |     |
|               |                | т      |  |  |      |         | $^{\frac{4}{4}}$      | [T1]          | -20           | .92 dBm                                 |     |
| -20           |                | 7      |  |  |      |         | <del>-</del>          |               | 2.40258       | 617 GHz                                 | 1M2 |
| IMAX          |                |        |  |  |      |         | 4                     |               |               |   | IMA |
| -30           |                |        |  |  |      |         |                       |               |               |   |     |
| -40           |                |        |  |  |      |         |                       | $\overline{}$ |               |   |     |
| -50           | <u> </u>       | $\sim$ |  |  |      |         |                       | <b>\</b> \\\  | $\mathcal{N}$ |   |     |
|               |                |        |  |  |      |         |                       |               | Wh            | May |     |
| -60           |                |        |  |  |      |         |                       |               |               | •                                       |     |
|               |                |        |  |  |      |         |                       |               |               |   |     |
| -70           |                |        |  |  |      |         |                       |               |               |   |     |
|               |                |        |  |  |      |         |                       |               |               |   |     |
| -80           |                |        |  |  |      |         |                       |               |               |   |     |
|               |                |        |  |  |      |         |                       |               |               |   |     |
| -90           | · ·            |        |  |  |      |         |                       |               |               |   |     |
| Center 2      | .402 G         | Hz     |  | 300                                    | kHz/ |         |                       |               | Spa           | ın 3 MHz                                |     |

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| Product:        | TRUE V                                | VIRELES | SS STERE  | O EARBU | JDS    | T                      | est Mode:                 |      | Keep transmitting |                |     |
|-----------------|---------------------------------------|---------|-----------|---------|--------|------------------------|---------------------------|------|-------------------|----------------|-----|
| Mode            |                                       | Keepin  | g Transmi | tting   |        | Te                     | est Voltage               |      | DC                | 3.7V           |     |
| Temperature     | _                                     | 2       | 4 deg. C, |         |        | ]                      | Humidity                  |      | 56%               | 6 RH           |     |
| Test Result:    |                                       |         | Pass      |         |        |                        | Detector                  |      | I                 | PK             |     |
| OdB Bandwidth   |                                       | 1.      | 220MHz    |         |        |                        |                           |      |                   |                |     |
| Ŕ               | 1                                     | Marker  | 1 [T1 n   | ıdB]    | R      | BW                     | 30 kH                     | z Rl | F Att             | 20 dB          |     |
| Ref Lvl         | 1                                     | ndB     |           | 00 dB   | V      | BW                     | 100 kH                    |      |                   |                |     |
| 10 dBm          | 1                                     | BW 1    | .220440   | 88 MHz  | S      | WT                     | 8.5 ms                    | U1   | nit               | dBm            | ı   |
| 10              |                                       |         |           |         |        |                        | <b>v</b> <sub>1</sub>     | [T1] | -1                | .64 dBm        | A   |
|                 |                                       |         |           | 1       |        |                        |                           |      | 2.44099           | 699 GHz        |     |
| 0               |                                       |         |           | Λ /     |        |                        | ndB                       |      | 20                | .00 dB         |     |
|                 |                                       |         |           |         | \      |                        | BW $\nabla_{\mathrm{T}1}$ | [T1] | 1.22044<br>-21    | 088 MHz        |     |
| -10             |                                       |         | $\sim$    | \\\     | $\sim$ | $\mathcal{J}^{\wedge}$ | M                         |      | 2.44037           | 174 GHz        |     |
|                 |                                       | т:1     | $\sqrt{}$ |         |        |                        | \dag{\frac{1}{7}2}        | [T1] | -21               | .84 dBm        |     |
| -20<br>1MAX     |                                       | 7       |           |         |        |                        |                           | ካ    | 2.44159           | 218 GHz        | 1M2 |
| -30             |                                       |         |           |         |        |                        |                           |      |                   |                |     |
| -40             | /                                     | "\\\    |           |         |        |                        |                           | M    | $\sim$            |                |     |
| -50 Human       | · · · · · · · · · · · · · · · · · · · |         |           |         |        |                        |                           |      | \\\\              | and the second |     |
| -60             |                                       |         |           |         |        |                        |                           |      |                   |                |     |
| -70             |                                       |         |           |         |        |                        |                           |      |                   |                |     |
| -80             |                                       |         |           |         |        |                        |                           |      |                   |                |     |
| -90<br>Center 2 | -90 Center 2.441 GHz                  |         |           |         | kHz/   |                        |                           |      | Spa               | n 3 MHz        |     |

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Date: 2021-05-06



| Product:                 | WIRELES          | ELESS STEREO EARBUDS            |          |         | Test Mode: |              |                          | Keep transmitting |         |          |      |
|--------------------------|------------------|---------------------------------|----------|---------|------------|--------------|--------------------------|-------------------|---------|----------|------|
| Mode                     |                  | Keeping Transmitting 24 deg. C, |          |         |            |              | Test Voltage<br>Humidity |                   | DC3.7V  |          |      |
| Temperature              |                  |                                 |          |         |            |              |                          |                   | 56% RH  |          |      |
| Test Result:             | Pass<br>1.214MHz |                                 |          |         |            | Detector<br> |                          | PK                |         |          |      |
| 20dB Bandwidth           |                  |                                 |          |         |            |              |                          |                   |         |          |      |
| Ŕ                        |                  | Marker                          | 1 [T1 n  | ndB]    | R          | BW           | 30 kH:                   | z RI              | 7 Att   | 20 dB    |      |
| Ref Lvl                  |                  | ndB                             | 20.      | 00 dB   | V          | BW           | 100 kH                   |                   |         |          |      |
| 10 dBm                   |                  | BW 1                            | L.214428 | 886 MHz | S          | WT           | 8.5 ms                   | Ur                | nit     | dBm      | ı    |
| 10                       |                  |                                 |          |         |            |              | ▼1 [                     | T1]               | -2      | .37 dBm  | A    |
|                          |                  |                                 |          | 1       |            |              |                          |                   | 2.47999 | 699 GHz  |      |
| 0                        |                  |                                 |          | ^ /     |            |              | ndB                      |                   | 20      | .00 dB   |      |
|                          |                  |                                 |          |         | \          |              | BW<br>▼ <sub>T1</sub>    | [T1]              | 1.21442 | 886 MHz  |      |
| -10                      |                  |                                 | 241      | 77      | $\Delta$   | $\sim$       | My                       | [11]              | 2.47937 | 776 GHz  |      |
|                          |                  |                                 |          | ~       | Ì          |              | A 4.3                    | [T1]              | -22     | .49 dBm  |      |
| -20<br>1MAX              |                  | Y                               | N .      |         |            |              | 4                        |                   | 2.48059 | 218 GHz  | 1 20 |
|                          |                  |                                 |          |         |            |              | \                        | \                 |         |          | 1M2  |
| -30                      |                  |                                 |          |         |            |              |                          |                   |         |          |      |
| -40                      | $\wedge$         | ~                               |          |         |            |              |                          | by                | h       |          |      |
| -50 Why                  |                  |                                 |          |         |            |              |                          |                   | WW      | Mary     |      |
| -60                      |                  |                                 |          |         |            |              |                          |                   |         |          |      |
| -70                      |                  |                                 |          |         |            |              |                          |                   |         |          |      |
|                          |                  |                                 |          |         |            |              |                          |                   |         |          |      |
| -80                      |                  |                                 |          |         |            |              |                          |                   |         |          |      |
|                          |                  |                                 |          |         |            |              |                          |                   |         |          |      |
| -90                      |                  |                                 |          |         |            |              |                          |                   |         |          |      |
| Center 2.48 GHz 300 kHz/ |                  |                                 |          |         |            |              |                          |                   | Spa     | ın 3 MHz |      |

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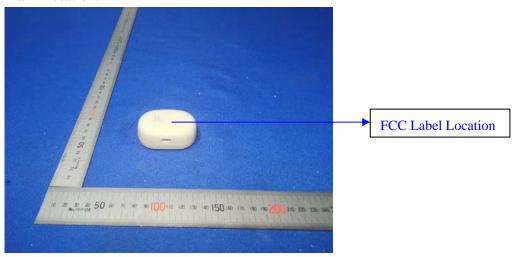


## 10.0 FCC ID Label

### FCC ID: 2AZBO-N00003

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

## **Mark Location:**



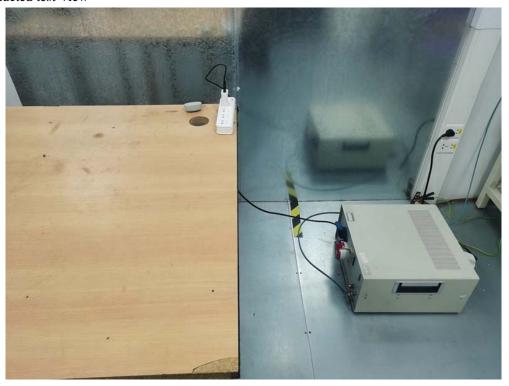
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#### 11.0 Photo of testing

#### 11.1 Conducted test View--



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# Radiated emission test view



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#### 11.2 Photographs - EUT

### Outside View



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Photographs - EUT

Outside View



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Left - Outside View



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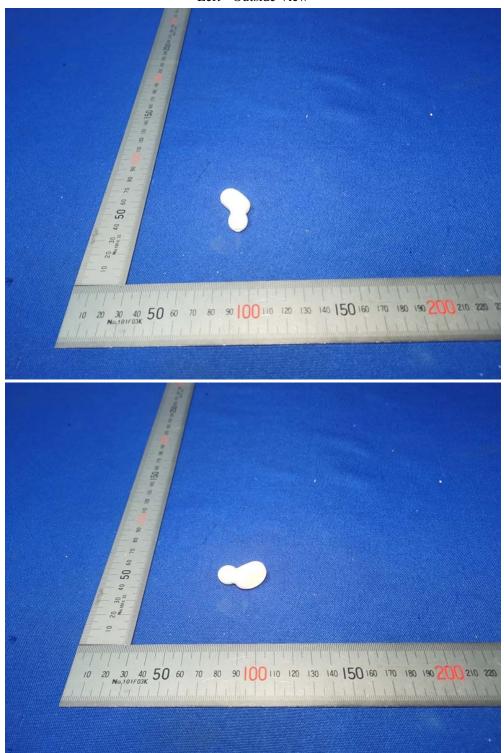
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Left - Outside View



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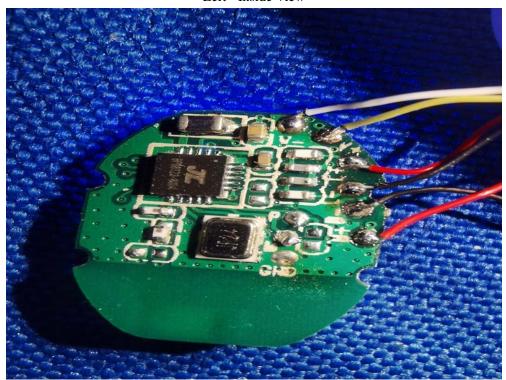
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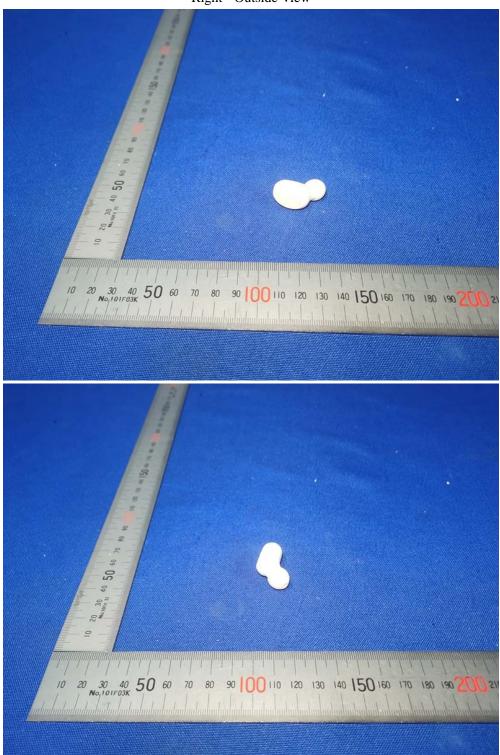
Left - Inside View



Date: 2021-05-06



Right - Outside View



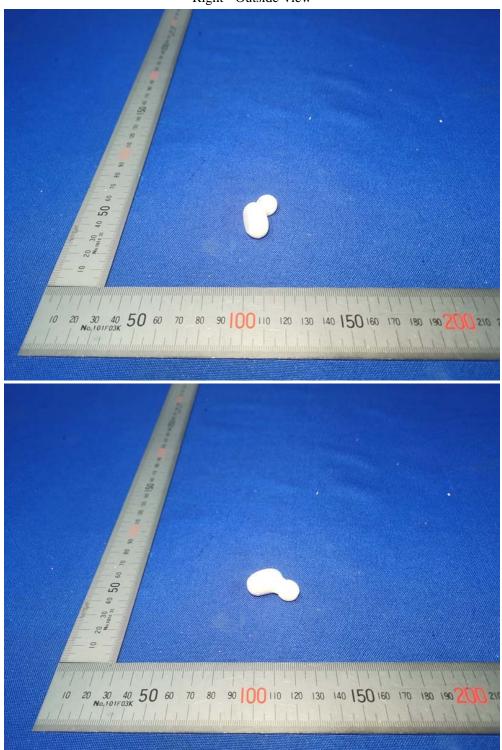
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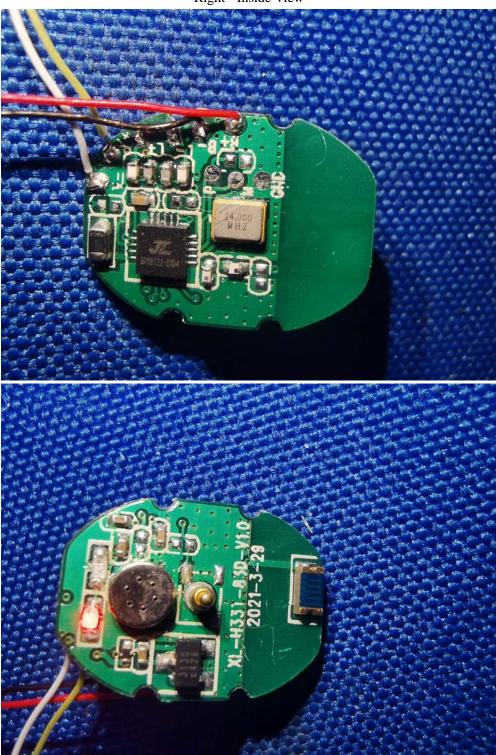
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Right - Inside View



-- End of the report--

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