TEST REPORT

| | |
|---|---|
| Report No.: | TW2412166E |
| Applicant: | GODIRECTINC.COM, INC. |
| Product: | TWS/ GEARit ANC True Wireless Earbuds with Wireless Charging |
| Model No.: | G101, GI-TWS-FF-ST-BK-111, GEARit Earbuds FS111 |
| Trademark: | Glory Star, GEARIT |
| 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

Terry Tang

Manager

Dated: December 26, 2024

**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

## Special Statement:

**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

**CAB identifier: CN0033**

Test Report Conclusion

Content

## 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: GODIRECTINC.COM, INC.

Address: 489 Yorbita Rd #B, La Puente CA 91744

### 1.3 Description of EUT

| | |
|---|---|
| Product: | TWS/ GEARit ANC True Wireless Earbuds with Wireless Charging |
| Manufacturer: | ShenZhen Glory Star Industrial Co., Ltd |
| Address: | Room 2202, Block 1 st, Yi Luan Building, Xixiang Road 230, BaoAn District, Shenzhen, China |
| Trademark: | Glory Star, GEARIT |
| Model Number: | G101 |
| Additional Model Name | GI-TWS-FF-ST-BK-111, GEARit Earbuds FS111 |
| Rating: | DC5V input or Built-in DC3.7V, 30mAh Li-ion battery for earphones and DC5V input or Built-in DC3.7V, 300mAh Li-ion battery for charger base. |
| Serial No.: | GS-012412240006 |
| Hardware Version: | V1.0 |
| Software Version: | 1.3.6 |
| Operation Frequency: | 2402-2480MHz |
| Modulation Type: | GFSK, Л/4DQPSK |
| Number of Channels: | 79 |
| Channel Separation: | 1MHz |
| Antenna Designation | Chip antenna with gain 2.18dBi maximum (Get from the antenna specification) |

### 1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2024-12-13 to 2024-12-26

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

The sample tested by Andy Zhu

Print Name: Andy Zhu

| **2.0 Test Equipment** | | | | | |
|---|---|---|---|---|---|
| Instrument Type | Manufacturer | Model | Serial No. | Date of Cal. | Due Date |
| ESPI Test Receiver | R&S | ESPI 3 | 100379 | 2024-07-12 | 2025-07-11 |
| LISN | R&S | EZH3-Z5 | 100294 | 2024-07-12 | 2025-07-11 |
| LISN | R&S | EZH3-Z5 | 100253 | 2024-07-12 | 2025-07-11 |
| Impuls-Begrenzer | R&S | ESH3-Z2 | 100281 | 2024-07-12 | 2025-07-11 |
| Loop Antenna | EMCO | 6507 | 00078608 | 2022-07-18 | 2025-07-17 |
| Spectrum | R&S | FSIQ26 | 100292 | 2024-07-12 | 2025-07-11 |
| Horn Antenna | A-INFO | LB-180400-KF | J211060660 | 2022-07-18 | 2025-07-17 |
| Horn Antenna | R&S | BBHA 9120D | 9120D-631 | 2022-07-18 | 2025-07-17 |
| Power meter | Anritsu | ML2487A | 6K00003613 | 2024-07-12 | 2025-07-11 |
| Power sensor | Anritsu | MA2491A | 32263 | 2024-07-12 | 2025-07-11 |
| Bilog Antenna | Schwarebeck | VULB9163 | 9163/340 | 2022-07-18 | 2025-07-17 |
| 9*6*6 Anechoic | -- | -- | N/A | 2022-07-26 | 2025-07-25 |
| EMI Test Receiver | RS | ESVB | 826156/011 | 2024-07-12 | 2025-07-11 |
| EMI Test Receiver | RS | ESCS 30 | 834115/006 | 2024-07-12 | 2025-07-11 |
| Spectrum | HP/Agilent | E4407B | MY50441392 | 2024-07-12 | 2025-07-11 |
| Spectrum | RS | FSP | 1164.4391.38 | 2024-07-12 | 2025-07-11 |
| RF Cable | Zhengdi | ZT26-NJ-NJ-8M/FA | -- | 2024-07-12 | 2025-07-11 |
| RF Cable | Zhengdi | 7m | -- | 2024-07-12 | 2025-07-11 |
| Pre-Amplifier | Schwarebeck | BBV9743 | #218 | 2024-07-12 | 2025-07-11 |
| Pre-Amplifier | HP/Agilent | 8449B | 3008A00160 | 2024-07-12 | 2025-07-11 |
| LISN | SCHAFFNER | NNB42 | 00012 | 2024-07-12 | 2025-07-11 |
| ESPI Test Receiver | R&S | ESPI 3 | 100379 | 2024-07-12 | 2025-07-11 |
| LISN | R&S | EZH3-Z5 | 100294 | 2024-07-12 | 2025-07-11 |

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 |

## 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 15.203 | Antenna Requirement | Pass | Complies |
| FCC Part 15, Paragraph 15.207 | Conducted Emission Test | Pass | Complies |
| FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit | Field Strength of Fundamental | Pass | Complies |
| FCC Part 15, Paragraph 15.209 | Radiated Emission Test | Pass | Complies |
| FCC Part 15 Subpart C Paragraph 15.249(d) Limit | Band Edge Test | Pass | Complies |
| FCC Part 15.215(c) | 20dB bandwidth | Pass | Complies |

### 3.2 Test Standards

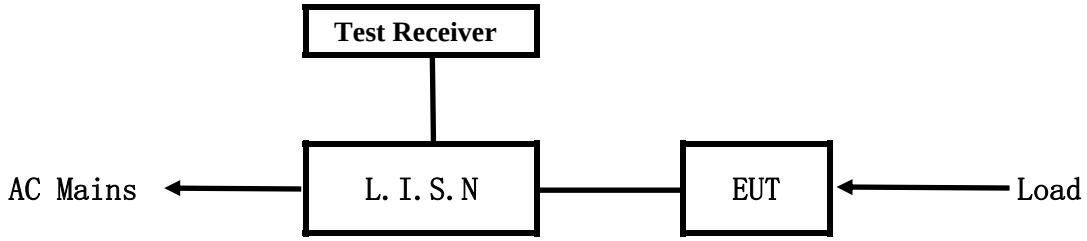
**FCC Part 15 Subpart C, Paragraph 15.249, ANSI C63.4 :2014 and ANSI C63.10 :2013**

## 4.0 EUT Modification

**No modification by SHENZHEN TIMEWAY TESTING LABORATORIES**

## 5.0 Power Line Conducted Emission Test

5.1 Schematics of the test



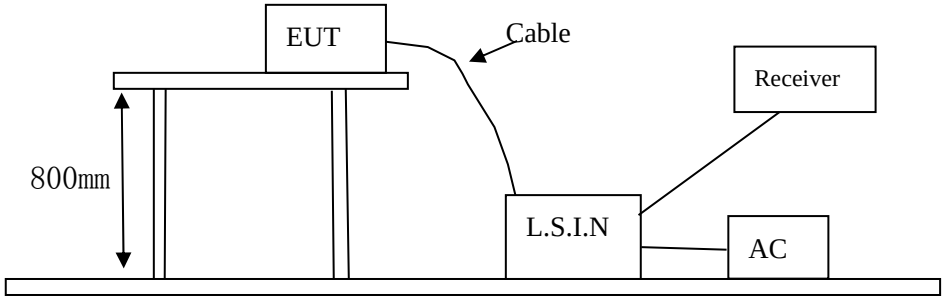

EUT: Equipment Under Test

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.

Test Voltage: 120V~, 60Hz

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.

79 channels are provided to the EUT

A. EUT

| Device | Manufacturer | Model | FCC ID |
|---|---|---|---|
| TWS/ GEARit ANC True Wireless Earbuds with Wireless Charging | ShenZhen Glory Star Industrial Co., Ltd | G101, GI-TWS-FF-ST-BK-111, GEARit Earbuds FS111 | 2BKO4-G101 |

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;<br>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 (MHz) | Limits (dB μ V) | |
|---|---|---|
| | Quasi-peak Level | Average Level |
| 0.15 ～ 0.50 | 66.0～56.0* | 56.0～46.0* |
| 0.50 ～ 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:

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

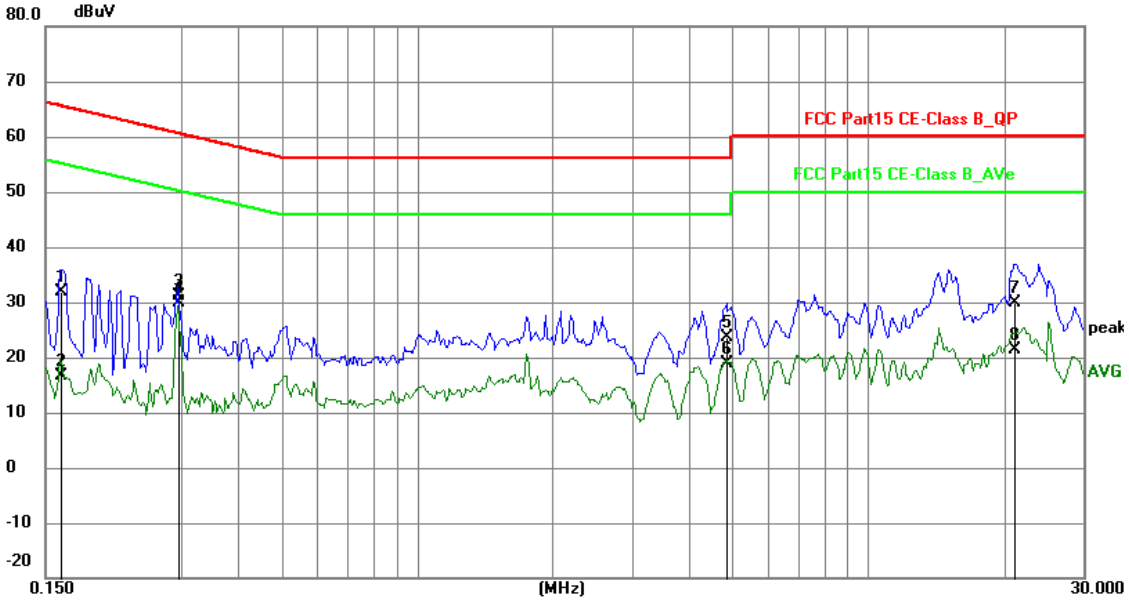
**EUT Operating Environment**

Temperature: 25℃ Humidity: 65%RH Atmospheric Pressure: 101 kPa

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

**Results: Pass**

Please refer to following diagram for individual




| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.1617 | 21.51 | 10.34 | 31.85 | 65.38 | -33.53 | QP | P |
| 2 | 0.1617 | 6.21 | 10.34 | 16.55 | 55.38 | -38.83 | AVG | P |
| 3 | 0.2943 | 20.77 | 10.35 | 31.12 | 60.40 | -29.28 | QP | P |
| 4 | 0.2943 | 19.42 | 10.35 | 29.77 | 50.40 | -20.63 | AVG | P |
| 5 | 4.8642 | 11.46 | 12.26 | 23.72 | 56.00 | -32.28 | QP | P |
| 6 | 4.8642 | 6.61 | 12.26 | 18.87 | 46.00 | -27.13 | AVG | P |
| 7 | 21.1233 | 13.75 | 16.19 | 29.94 | 60.00 | -30.06 | QP | P |
| 8 | 21.1233 | 5.30 | 16.19 | 21.49 | 50.00 | -28.51 | AVG | P |

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

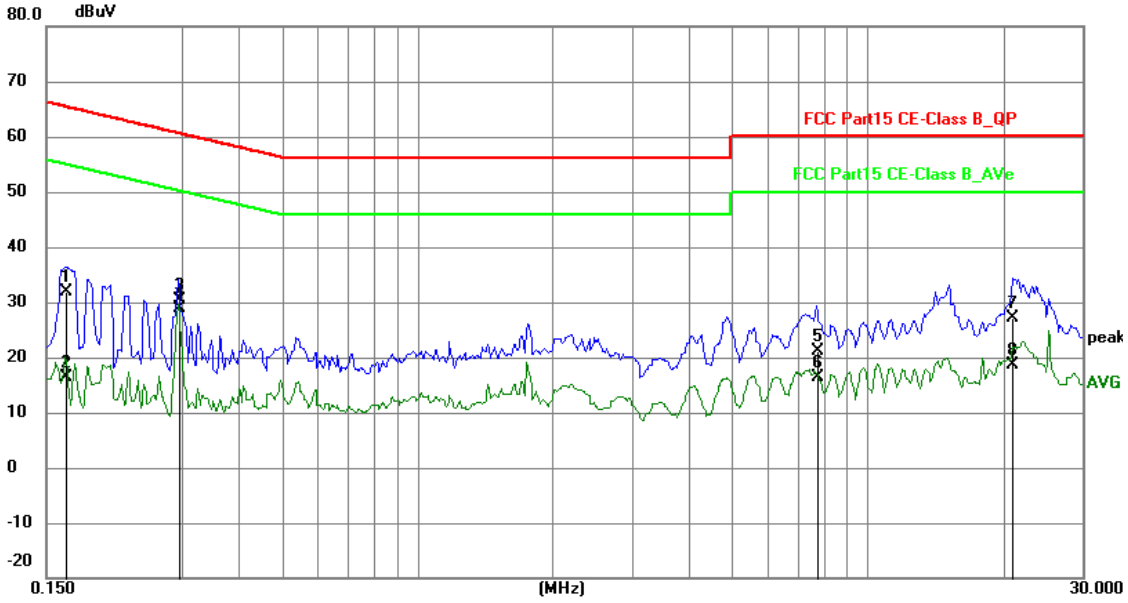
**EUT Operating Environment**

Temperature: 25℃ Humidity: 65%RH Atmospheric Pressure: 101 kPa

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

**Results: Pass**

Please refer to following diagram for individual




| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.1655 | 21.49 | 10.33 | 31.82 | 65.18 | -33.36 | QP | P |
| 2 | 0.1655 | 6.12 | 10.33 | 16.45 | 55.18 | -38.73 | AVG | P |
| 3 | 0.2943 | 20.02 | 10.35 | 30.37 | 60.40 | -30.03 | QP | P |
| 4 | 0.2943 | 18.65 | 10.35 | 29.00 | 50.40 | -21.40 | AVG | P |
| 5 | 7.6878 | 7.96 | 13.06 | 21.02 | 60.00 | -38.98 | QP | P |
| 6 | 7.6878 | 3.20 | 13.06 | 16.26 | 50.00 | -33.74 | AVG | P |
| 7 | 21.0297 | 11.03 | 16.21 | 27.24 | 60.00 | -32.76 | QP | P |
| 8 | 21.0297 | 2.40 | 16.21 | 18.61 | 50.00 | -31.39 | AVG | P |

## 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 9kHz to 25 GHz was investigated. The frequency spectrum is set as follows:

| Frequency | Detector | RBW | VBW | Value |
|---|---|---|---|---|
| 9KHz-150KHz | Quasi-peak | 200Hz | 600Hz | Quasi-peak |
| 150KHz-30MHz | Quasi-peak | 9KHz | 30KHz | Quasi-peak |
| 30MHz-1GHz | Quasi-peak | 120KHz | 300KHz | Quasi-peak |
| Above 1GHz | Peak | 1MHz | 3MHz | Peak |
| | Peak | 1MHz | 10Hz | Average |

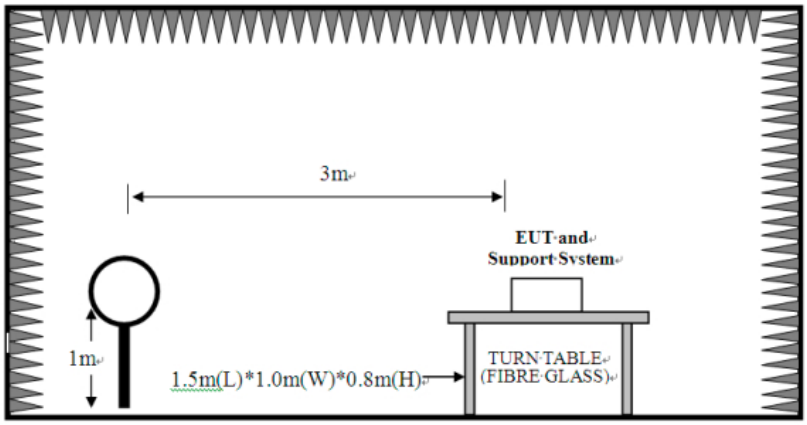
(Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz).
Measurements were made at 3 meters.

(4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.

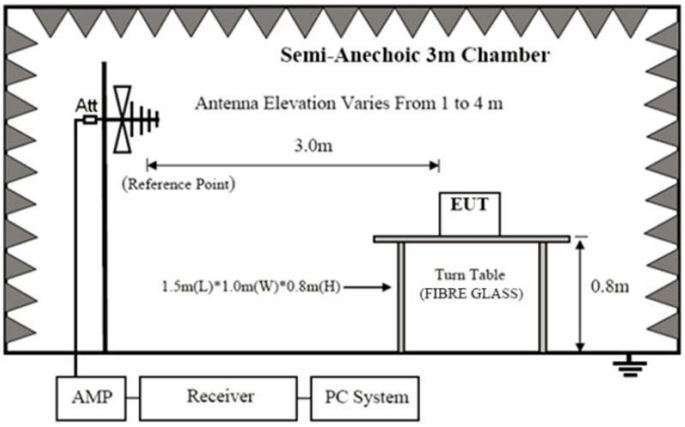
(5) The antenna polarization: Vertical polarization and Horizontal polarization.

**Block diagram of Test setup**

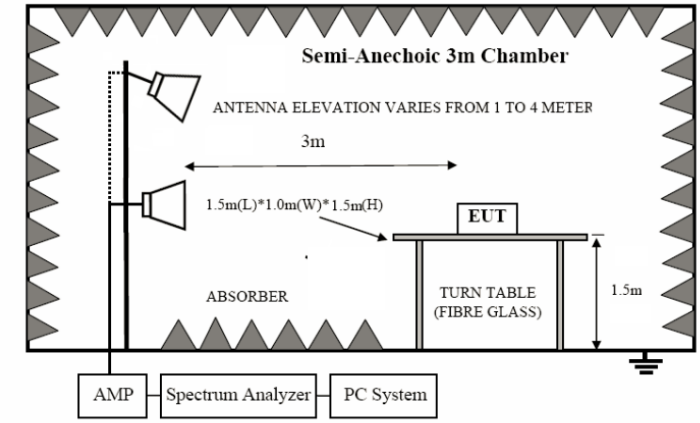
For radiated emissions from 9kHz to 30MHz



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.

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 (MHz) | Field Strength of Fundamental (3m) | | Field Strength of Harmonics (3m) | |
|---|---|---|---|---|
| | **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 μ V/m) |
|---|---|---|
| 0.009-0.490 | 3 | 20log(2400/F(kHz)) +40log (300/3) |
| 0.490-1.705 | 3 | 20log(24000/F(kHz)) +40log (30/3) |
| 1.705-30 | 3 | 69.5 |
| 30-80 | 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 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. 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.

5. The two modulation modes of GFSK, Pi/4D-QPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

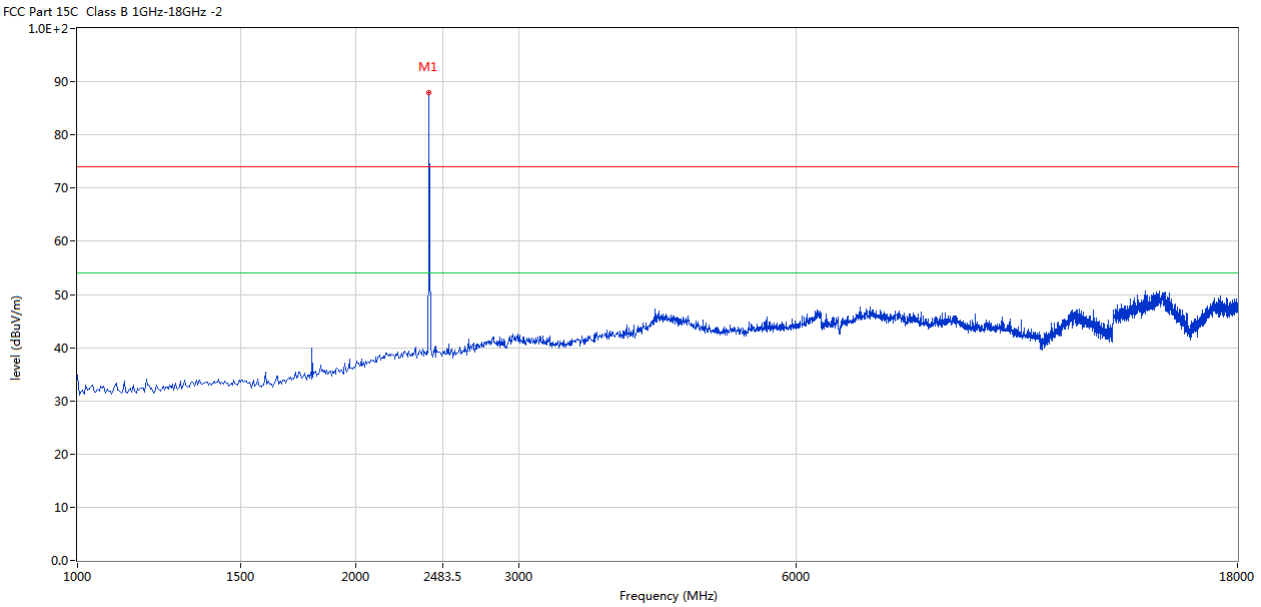
6. Battery was fully charged during test

## 6.5 Test result

## A Fundamental & Harmonics Radiated Emission Data

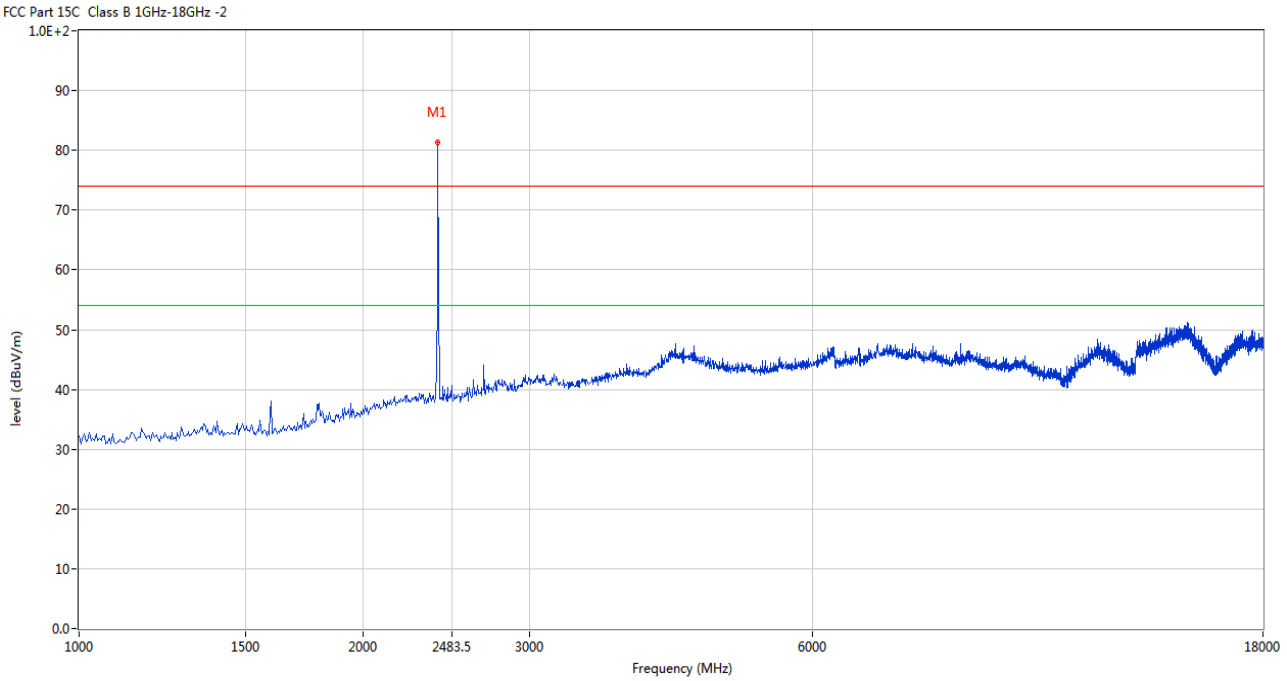
Please refer to the following test plots for details: Low Channel-2402MHz

**Horizontal**




| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2402 | 87.89 | -3.57 | 114.0 | -26.11 | Peak | 250.00 | 100 | Horizontal | Pass |

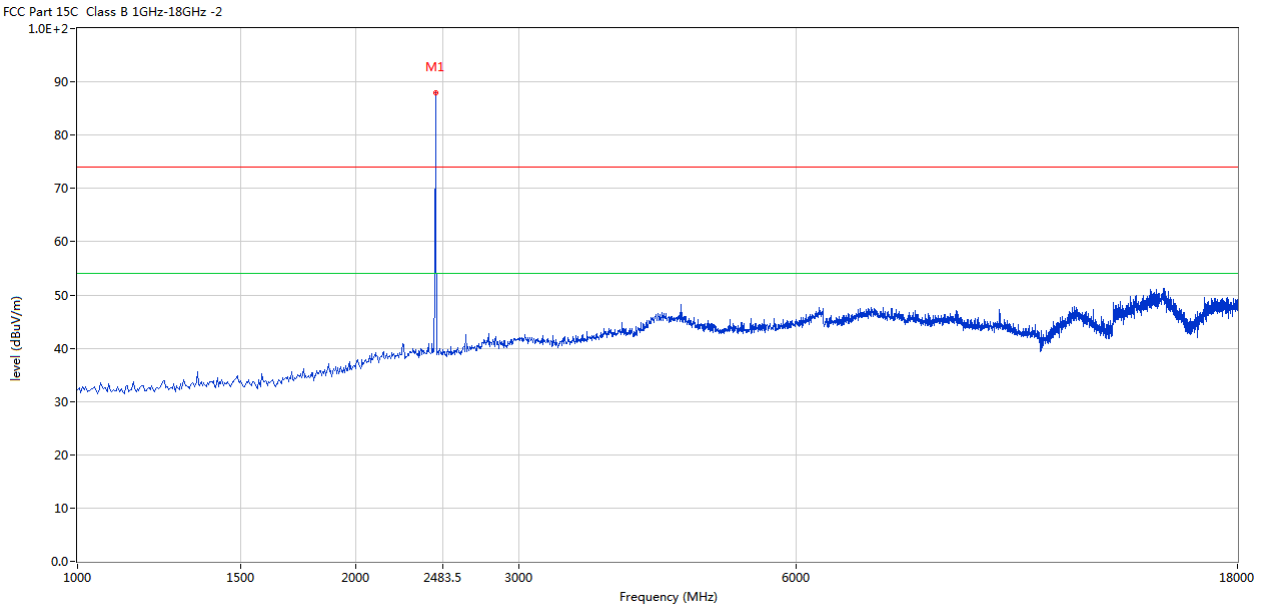
## Vertical




| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2402 | 81.44 | -3.57 | 114.0 | -32.56 | Peak | 280.00 | 100 | Vertical | Pass |

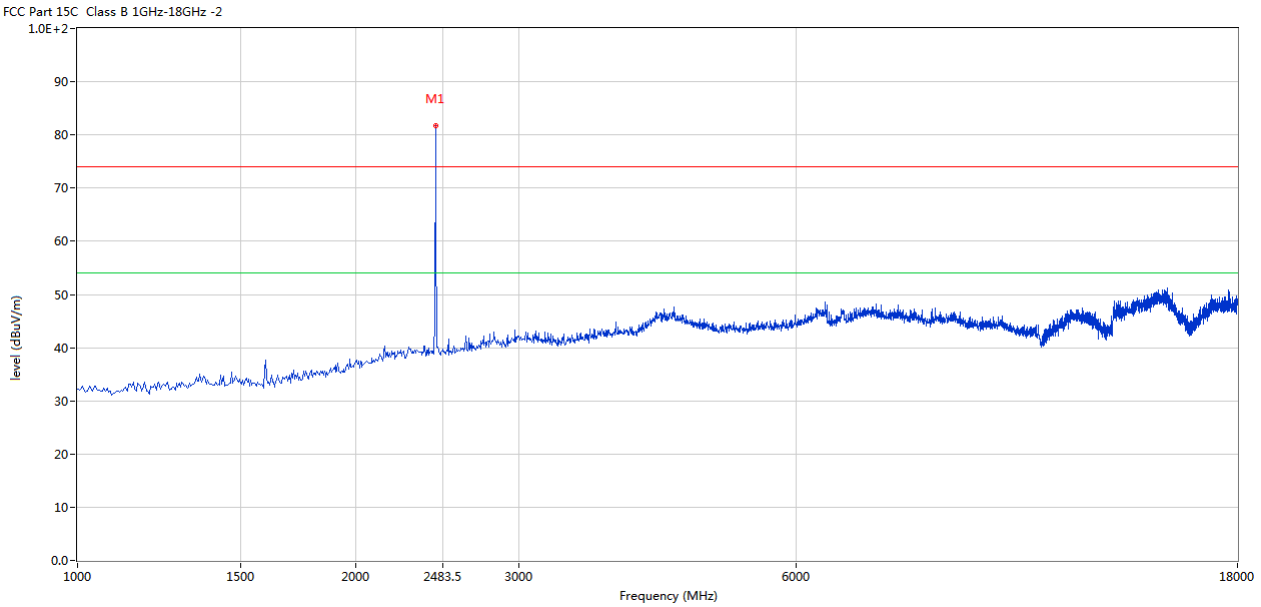
Please refer to the following test plots for details: Middle Channel-2441MHz

**Horizontal**




| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2441 | 87.88 | -3.57 | 114.0 | -26.12 | Peak | 207.00 | 100 | Horizontal | Pass |

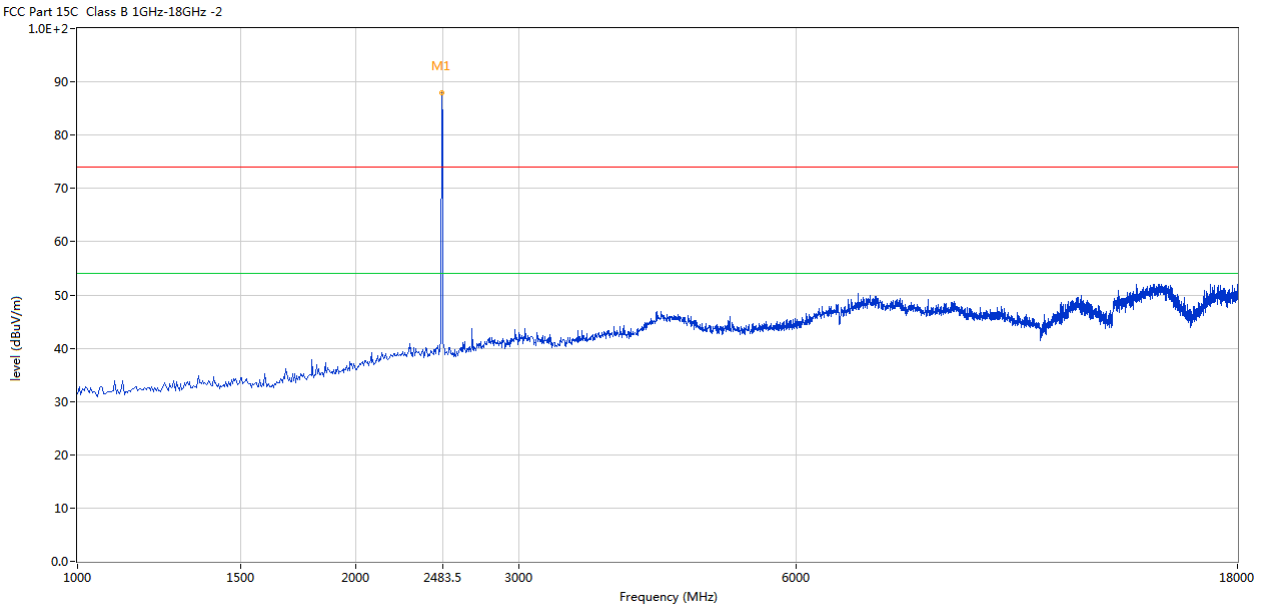
## Vertical




| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2441 | 81.77 | -3.57 | 114.0 | -32.23 | Peak | 275.00 | 100 | Vertical | Pass |

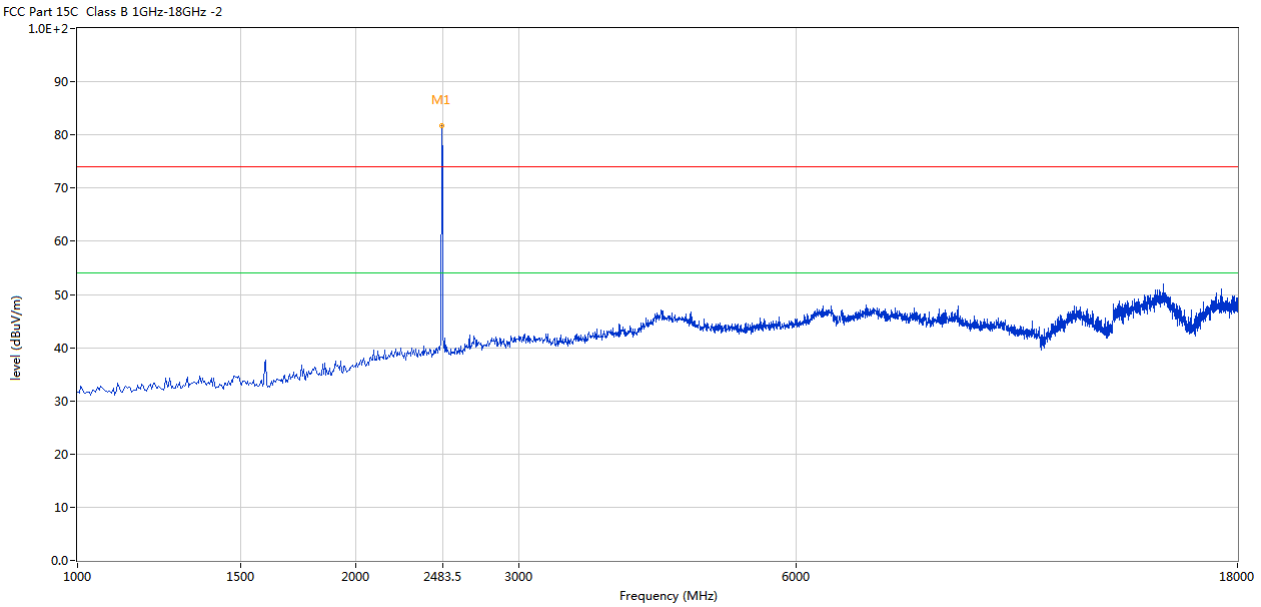
Please refer to the following test plots for details: High Channel-2480MHz

**Horizontal**




| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2480 | 87.91 | -3.57 | 114.0 | -26.09 | Peak | 261.00 | 100 | Horizontal | Pass |

## Vertical




| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2480 | 81.77 | -3.57 | 114.0 | -32.23 | Peak | 69.00 | 100 | Vertical | Pass |

Note: (1) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

(2) Margin=Emission-Limits

(3) According to section 15.35(b), the peak limit is 20dB higher than the average limit

(4) For test purpose, keep EUT continuous transmitting

(5) For emission above 18GHz and Below 30MHz, It is only the floor noise and less than the limit for more than 20dB. No necessary to take down.

(6) the measured PK value less than the AV limit.

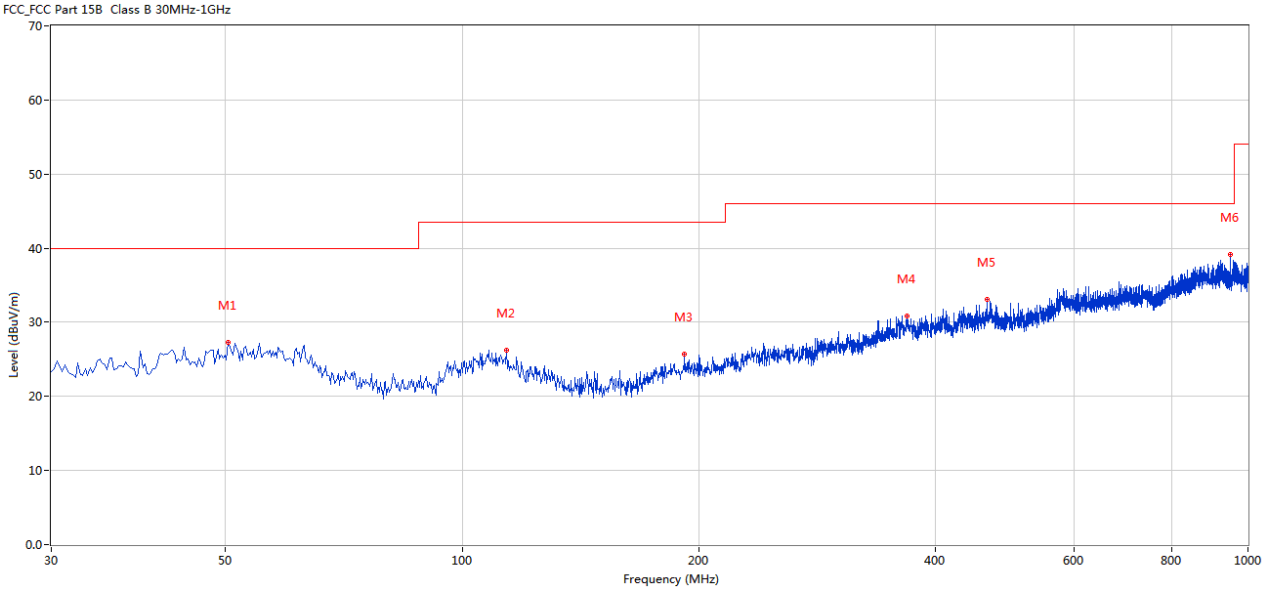
B. **General Radiated Emission Data**

**Radiated Emission In Horizontal (30MHz----1000MHz)**

EUT set Condition: Keep Tx transmitting

**Results: Pass**

Please refer to following diagram for individual



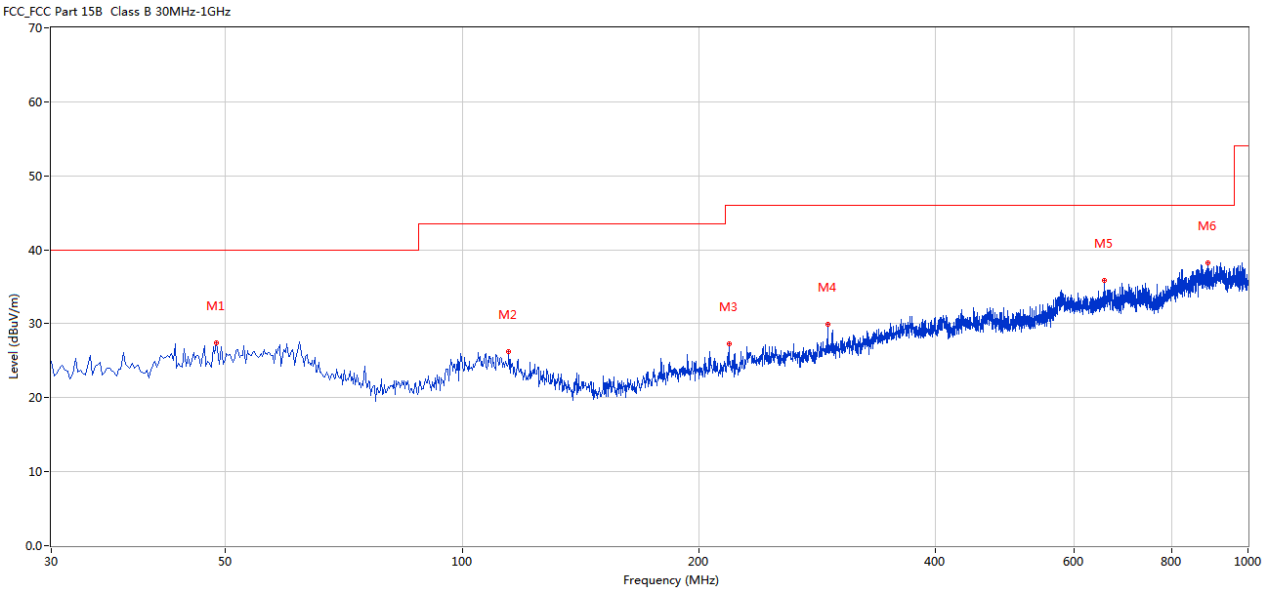

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 50.365 | 27.32 | -5.13 | 40.0 | 12.68 | Peak | 322.00 | 100 | Horizontal | Pass |
| 2 | 113.884 | 26.25 | -6.54 | 43.5 | 17.25 | Peak | 322.00 | 100 | Horizontal | Pass |
| 3 | 191.950 | 25.66 | -7.38 | 43.5 | 17.84 | Peak | 301.00 | 100 | Horizontal | Pass |
| 4 | 368.688 | 30.82 | -1.70 | 46.0 | 15.18 | Peak | 202.00 | 100 | Horizontal | Pass |
| 5 | 465.906 | 33.11 | -0.49 | 46.0 | 12.89 | Peak | 336.00 | 100 | Horizontal | Pass |
| 6 | 950.300 | 39.19 | 4.92 | 46.0 | 6.81 | Peak | 80.00 | 100 | Horizontal | Pass |

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

EUT set Condition: Keep Tx transmitting

**Results: Pass**

Please refer to following diagram for individual




| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 48.668 | 27.44 | -5.27 | 40.0 | 12.56 | Peak | 2.00 | 100 | Vertical | Pass |
| 2 | 114.611 | 26.27 | -6.68 | 43.5 | 17.23 | Peak | 160.00 | 100 | Vertical | Pass |
| 3 | 218.618 | 27.25 | -6.21 | 46.0 | 18.75 | Peak | 344.00 | 100 | Vertical | Pass |
| 4 | 291.835 | 29.98 | -4.31 | 46.0 | 16.02 | Peak | 336.00 | 100 | Vertical | Pass |
| 5 | 657.433 | 35.88 | 2.11 | 46.0 | 10.12 | Peak | 261.00 | 100 | Vertical | Pass |
| 6 | 889.205 | 38.21 | 4.93 | 46.0 | 7.79 | Peak | 122.00 | 100 | Vertical | Pass |

## 7. Band Edge

### 7.1 Test Method and test Procedure:

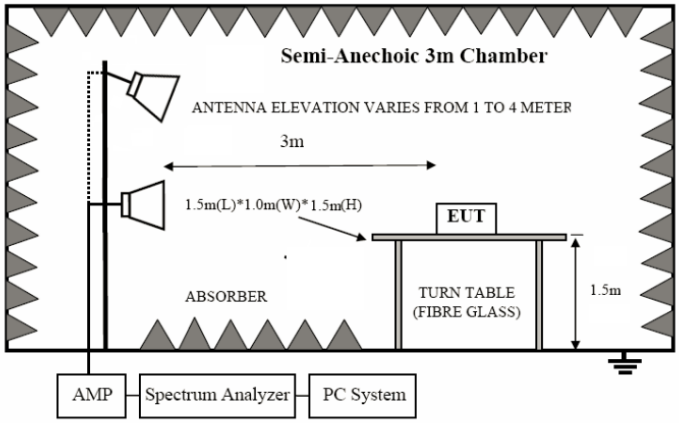
(1) The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189

(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

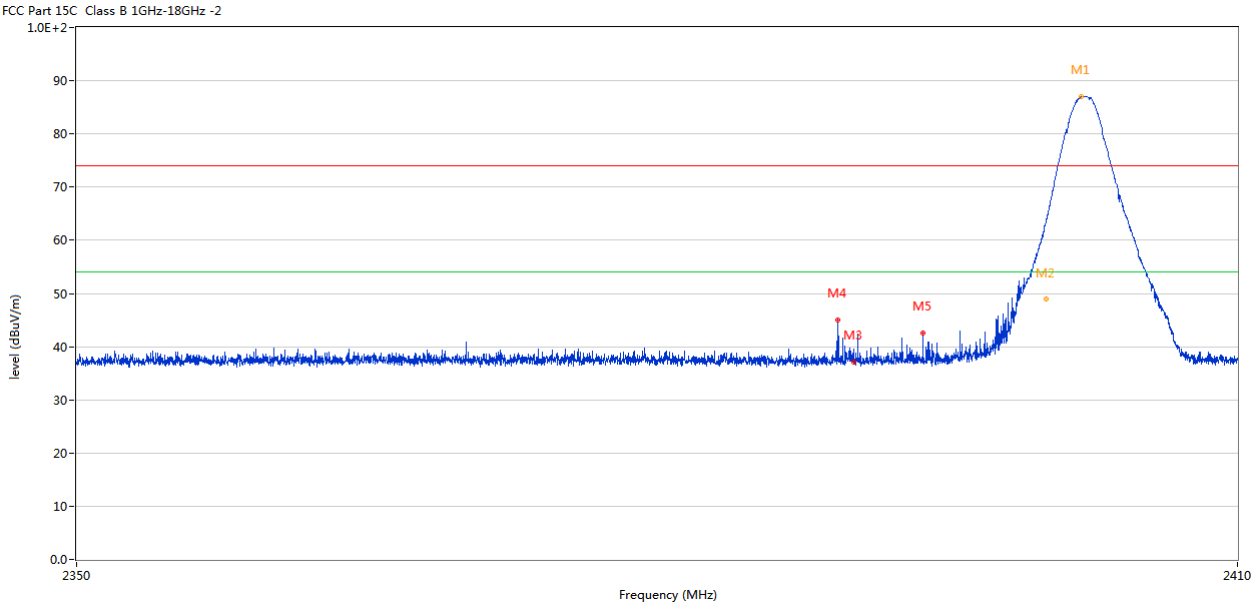
Same as section 5.4 of this report.

### 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.

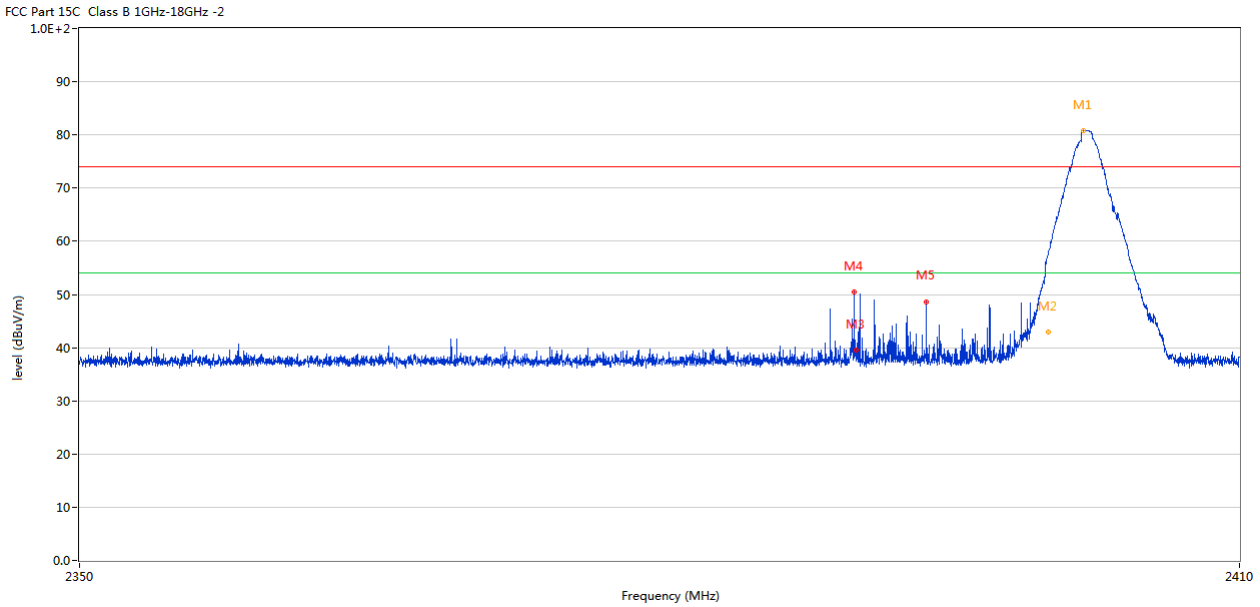
### 7.6 Test Result

| Product: | TWS/ GEARit ANC True Wireless Earbuds with Wireless Charging | Polarity | Horizontal |
|---|---|---|---|
| Mode | Keeping Transmitting | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | -- | -- |



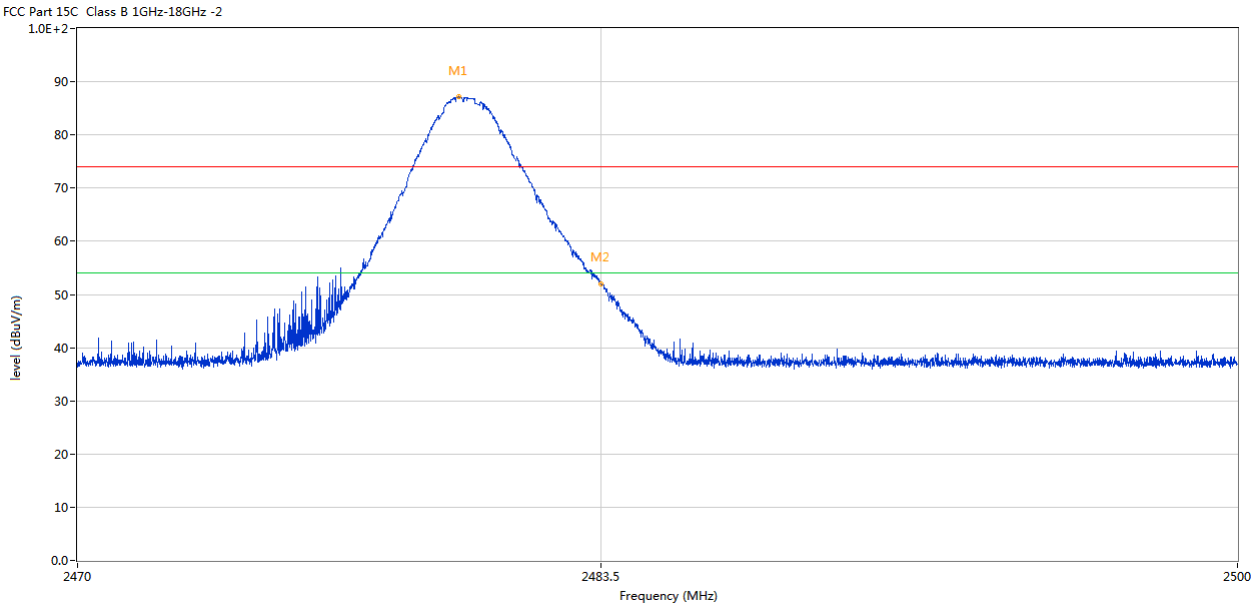

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2401.857 | 87.03 | -3.57 | 74.0 | 13.03 | Peak | 255.00 | 100 | Horizontal | N/A |
| 2 | 2400.027 | 63.98 | -3.57 | 74.0 | -10.02 | Peak | 255.00 | 100 | Horizontal | Pass |
| 2** | 2400.027 | 48.94 | -3.57 | 54.0 | -5.06 | AV | 255.00 | 100 | Horizontal | Pass |
| 3 | 2390.025 | 37.04 | -3.53 | 74.0 | -36.96 | Peak | 209.00 | 100 | Horizontal | Pass |
| 4 | 2389.155 | 45.02 | -3.53 | 74.0 | -28.98 | Peak | 164.00 | 100 | Horizontal | Pass |
| 5 | 2393.594 | 42.60 | -3.54 | 74.0 | -31.40 | Peak | 265.00 | 100 | Horizontal | Pass |

| Product: | TWS/ GEARit ANC True Wireless Earbuds with Wireless Charging | Detector | Vertical |
|---|---|---|---|
| Mode | Keeping Transmitting | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | -- | -- |



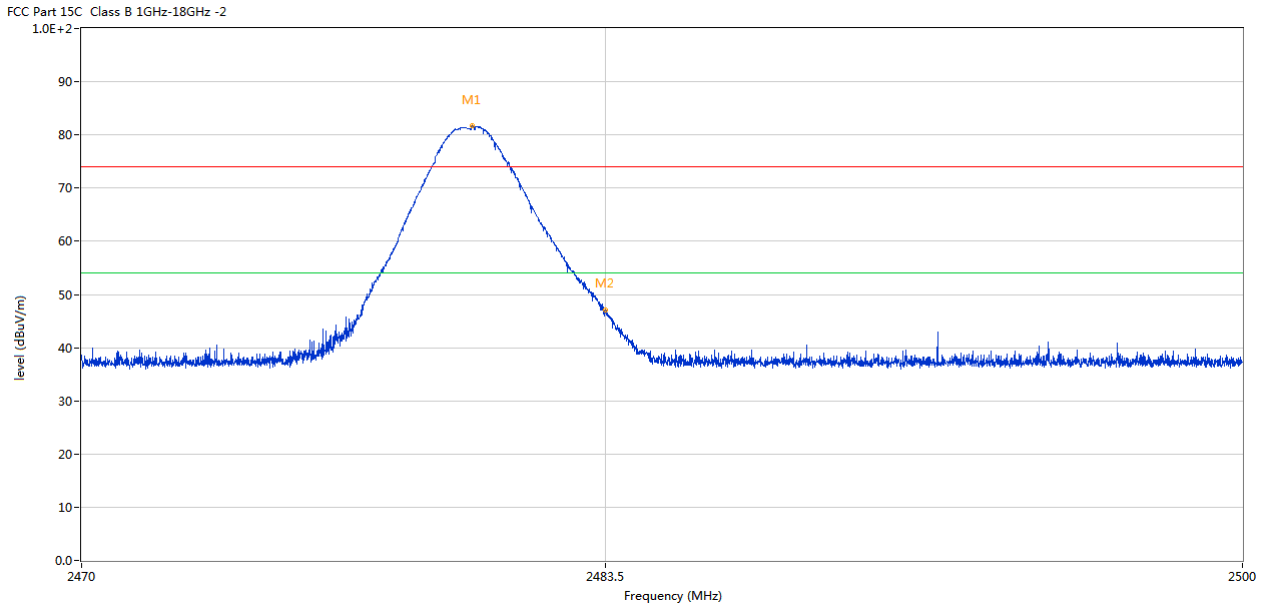

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2401.812 | 80.80 | -3.57 | 74.0 | 6.80 | Peak | 51.00 | 100 | Vertical | N/A |
| 2 | 2400.027 | 58.12 | -3.57 | 74.0 | -15.88 | Peak | 51.00 | 100 | Vertical | Pass |
| 2** | 2400.027 | 42.98 | -3.57 | 54.0 | -11.02 | AV | 51.00 | 100 | Vertical | Pass |
| 3 | 2390.010 | 39.62 | -3.53 | 74.0 | -34.38 | Peak | 112.00 | 100 | Vertical | Pass |
| 4 | 2389.905 | 50.38 | -3.53 | 74.0 | -23.62 | Peak | 97.00 | 100 | Vertical | Pass |
| 5 | 2393.639 | 48.59 | -3.54 | 74.0 | -25.41 | Peak | 102.00 | 100 | Vertical | Pass |

| Product: | TWS/ GEARit ANC True Wireless Earbuds with Wireless Charging | Polarity | Horizontal |
|---|---|---|---|
| Mode | Keeping Transmitting | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | -- | -- |




| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2479.830 | 87.11 | -3.57 | 74.0 | 13.11 | Peak | 248.00 | 100 | Horizontal | N/A |
| 2 | 2483.500 | 51.97 | -3.57 | 74.0 | -22.03 | Peak | 248.00 | 100 | Horizontal | Pass |

| Product: | TWS/ GEARit ANC True Wireless Earbuds with Wireless Charging | Detector | Vertical |
|---|---|---|---|
| Mode | Keeping Transmitting | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | -- | -- |




| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2480.047 | 81.66 | -3.57 | 74.0 | 7.66 | Peak | 36.00 | 100 | Vertical | N/A |
| 2 | 2483.500 | 47.02 | -3.57 | 74.0 | -26.98 | Peak | 63.86 | 100 | Vertical | Pass |

Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.
2. The two modulation modes of GFSK, Pi/4D-QPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

## 8.0 Antenna Requirement

### Applicable Standard

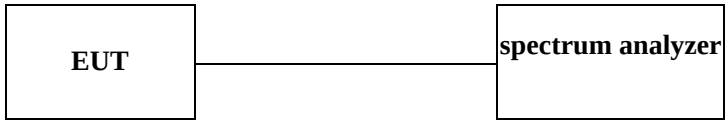
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply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

This product has a Chip antenna with gain 2.18dBi maximum. It fulfills the requirement of this section.

Test Result: Pass

**9.0 20dB Bandwidth Measurement**

**Test Configuration**




**Test Procedure**

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW.

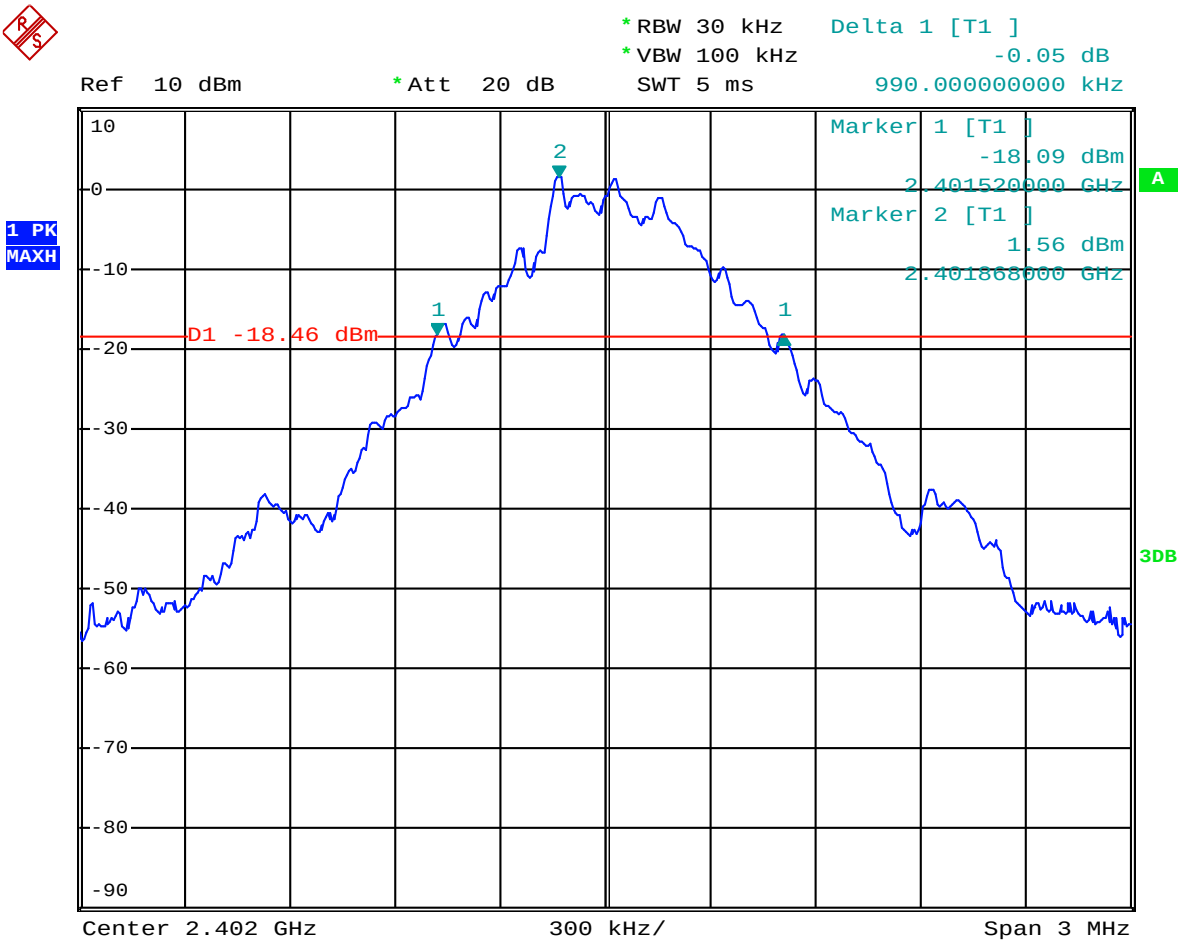
The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

**Limit**

N/A

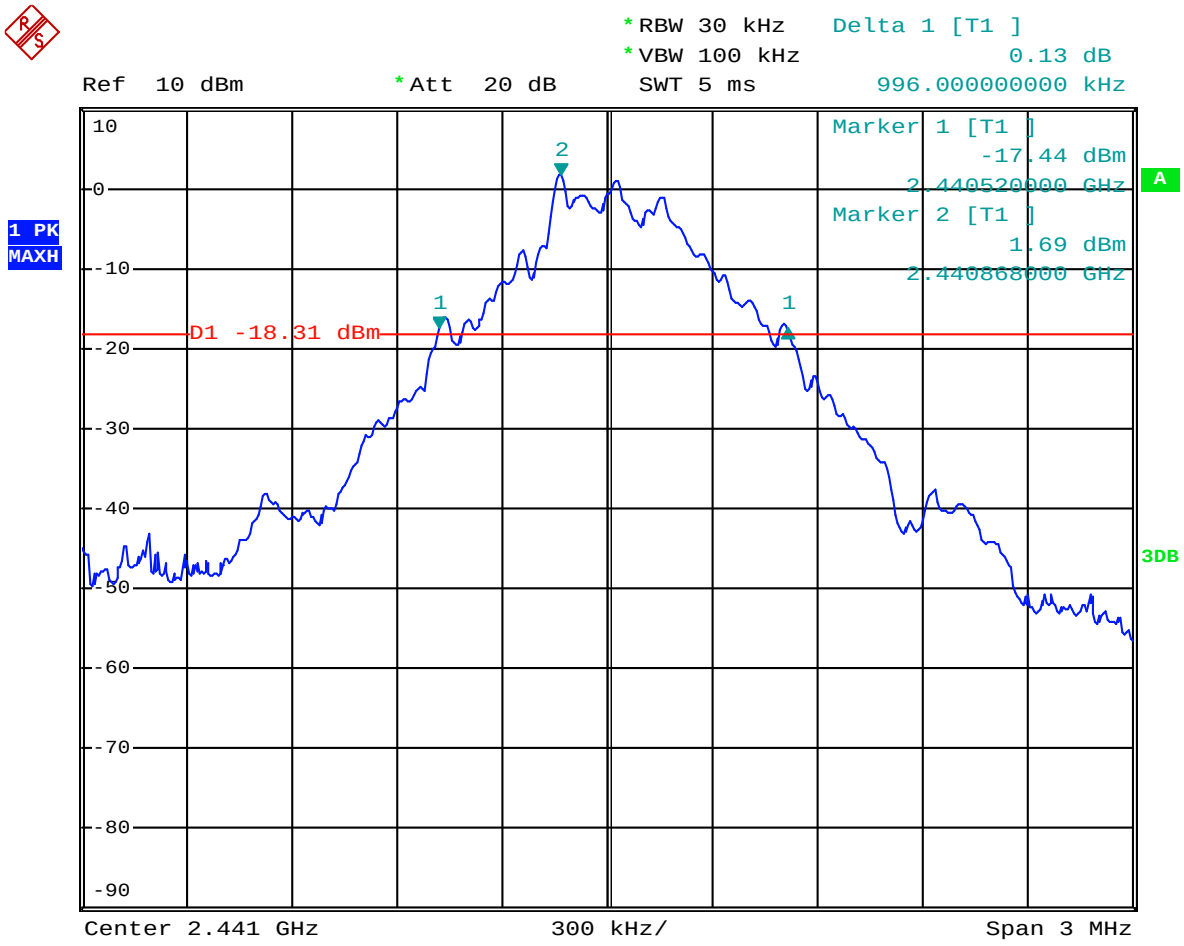
**Test Result**

| GFSK | | | |
|---|---|---|---|
| Product: | TWS/ GEARit ANC True Wireless Earbuds with Wireless Charging | Test Mode: | Keep transmitting |
| Mode | Keeping Transmitting | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | Detector | PK |
| 20dB Bandwidth | 990kHz | -- | -- |

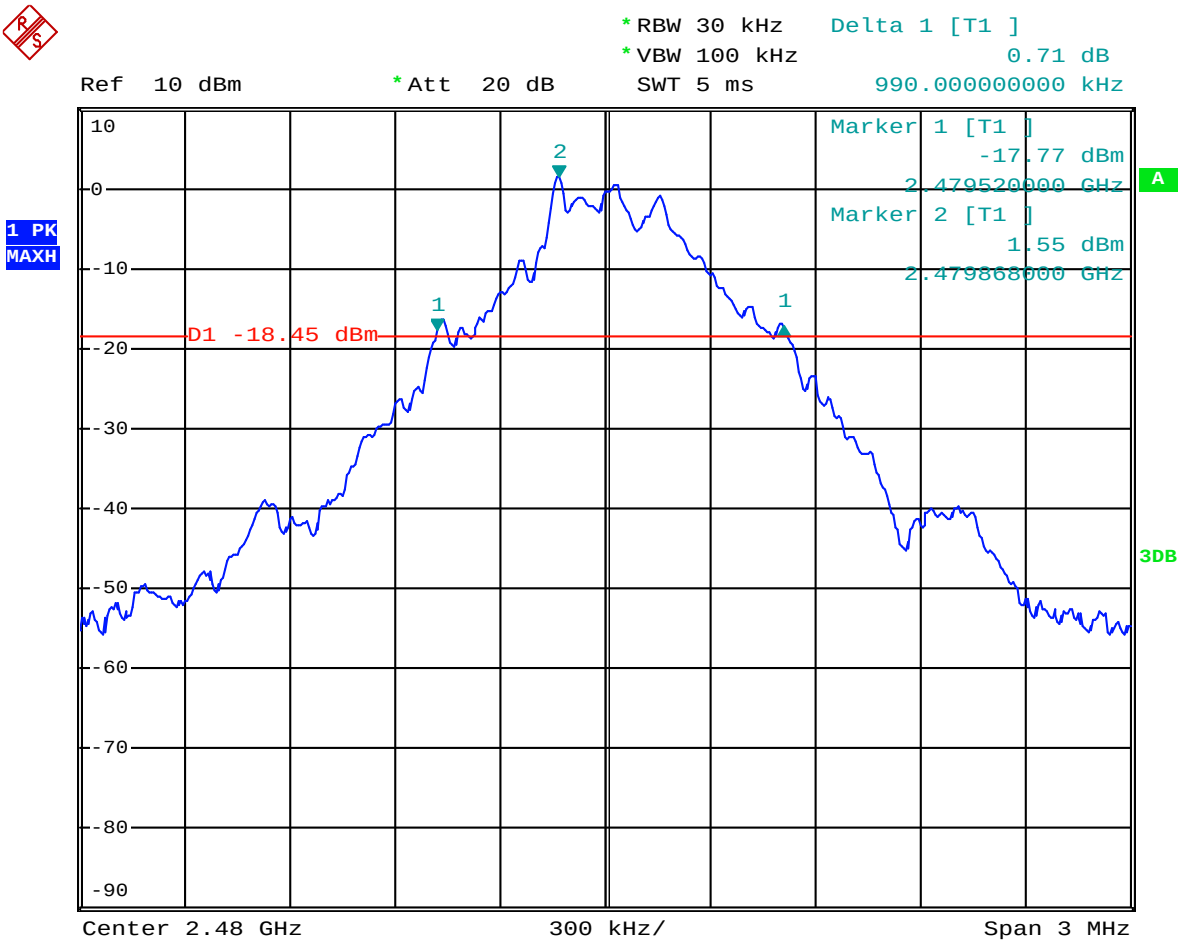



Date: 25.DEC.2024 16:44:54

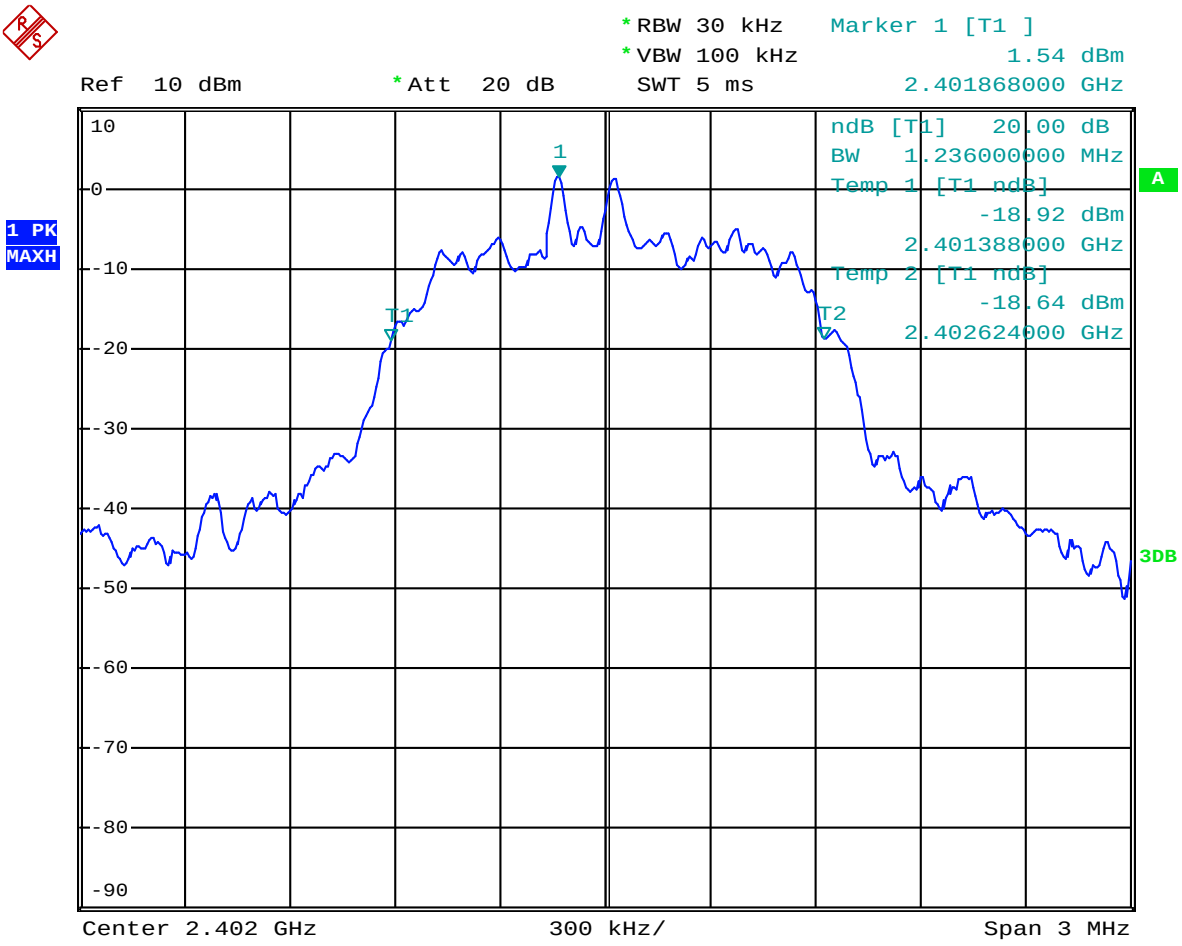
| GFSK | | | |
|---|---|---|---|
| Product: | TWS/ GEARit ANC True Wireless Earbuds with Wireless Charging | Test Mode: | Keep transmitting |
| Mode | Keeping Transmitting | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | Detector | PK |
| 20dB Bandwidth | 996kHz | -- | -- |



| GFSK | | | |
|---|---|---|---|
| Product: | TWS/ GEARit ANC True Wireless Earbuds with Wireless Charging | Test Mode: | Keep transmitting |
| Mode | Keeping Transmitting | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | Detector | PK |
| 20dB Bandwidth | 990kHz | -- | -- |

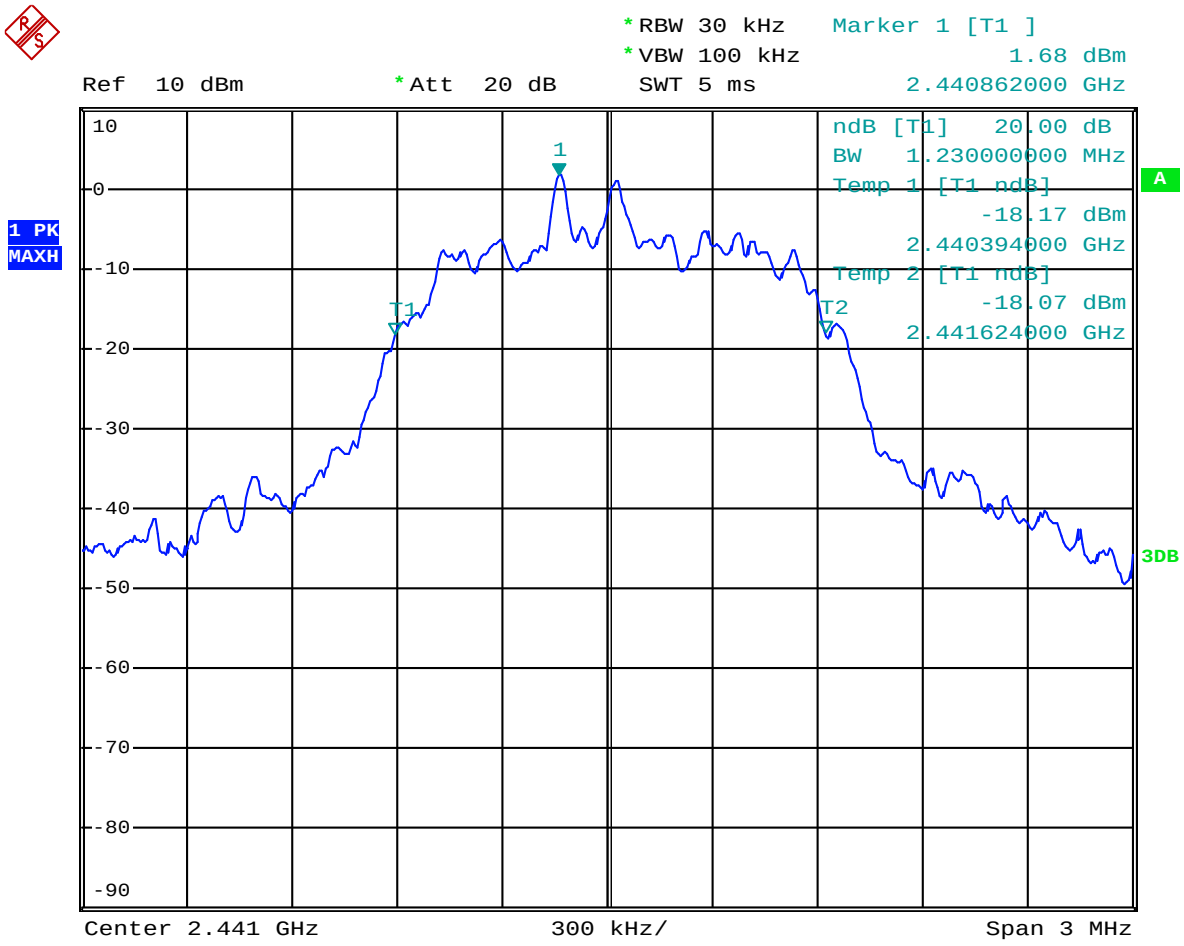


| Л/4DQPSK | | | |
|---|---|---|---|
| Product: | TWS/ GEARit ANC True Wireless Earbuds with Wireless Charging | Test Mode: | Keep transmitting |
| Mode | Keeping Transmitting | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | Detector | PK |
| 20dB Bandwidth | 1.236MHz | -- | -- |



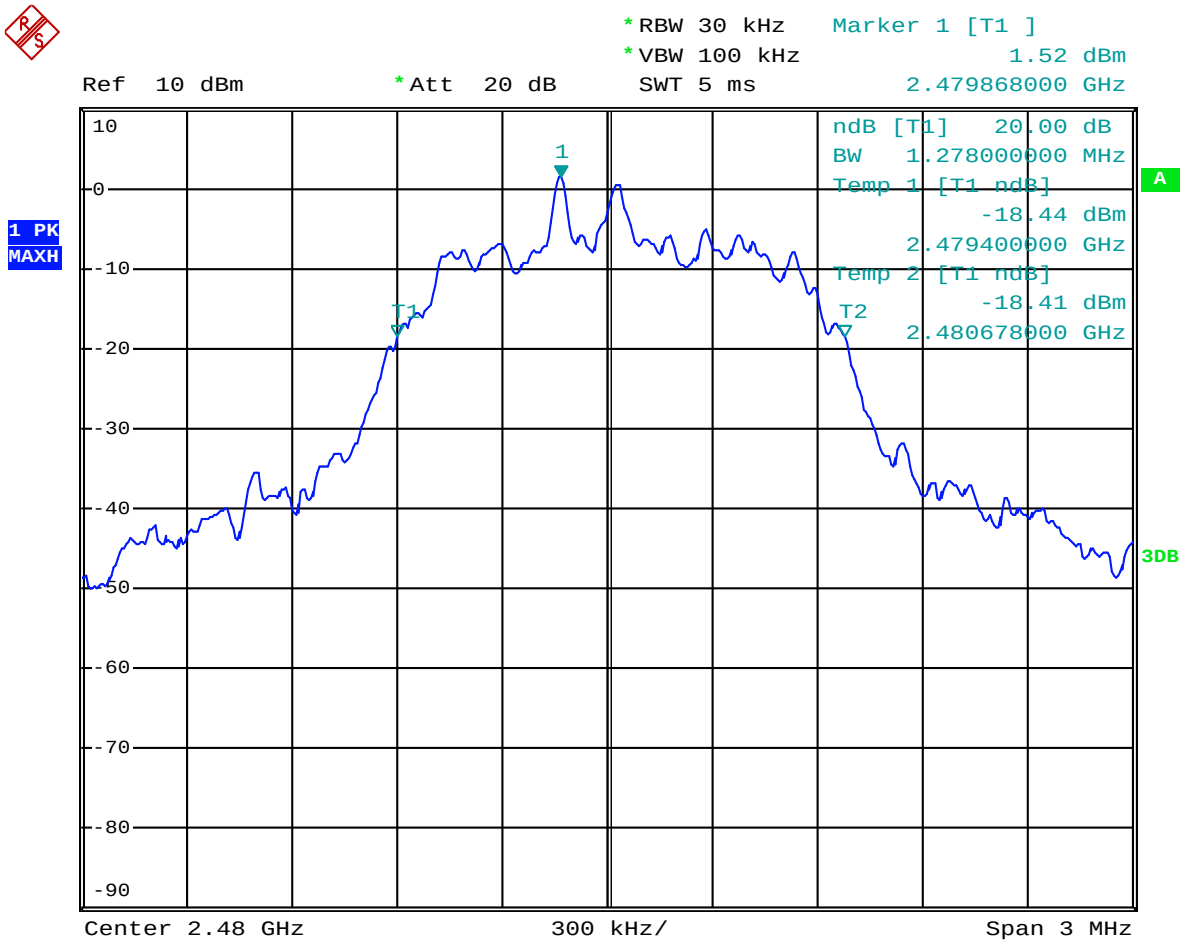

Date: 25.DEC.2024 17:00:32

| Л/4DQPSK | | | |
|---|---|---|---|
| Product: | TWS/ GEARit ANC True Wireless Earbuds with Wireless Charging | Test Mode: | Keep transmitting |
| Mode | Keeping Transmitting | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | Detector | PK |
| 20dB Bandwidth | 1.230MHz | -- | -- |




Date: 25.DEC.2024 16:58:36

| Л/4DQPSK | | | |
|---|---|---|---|
| Product: | TWS/ GEARit ANC True Wireless Earbuds with Wireless Charging | Test Mode: | Keep transmitting |
| Mode | Keeping Transmitting | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | Detector | PK |
| 20dB Bandwidth | 1.278MHz | -- | -- |




Date: 25.DEC.2024 16:57:50

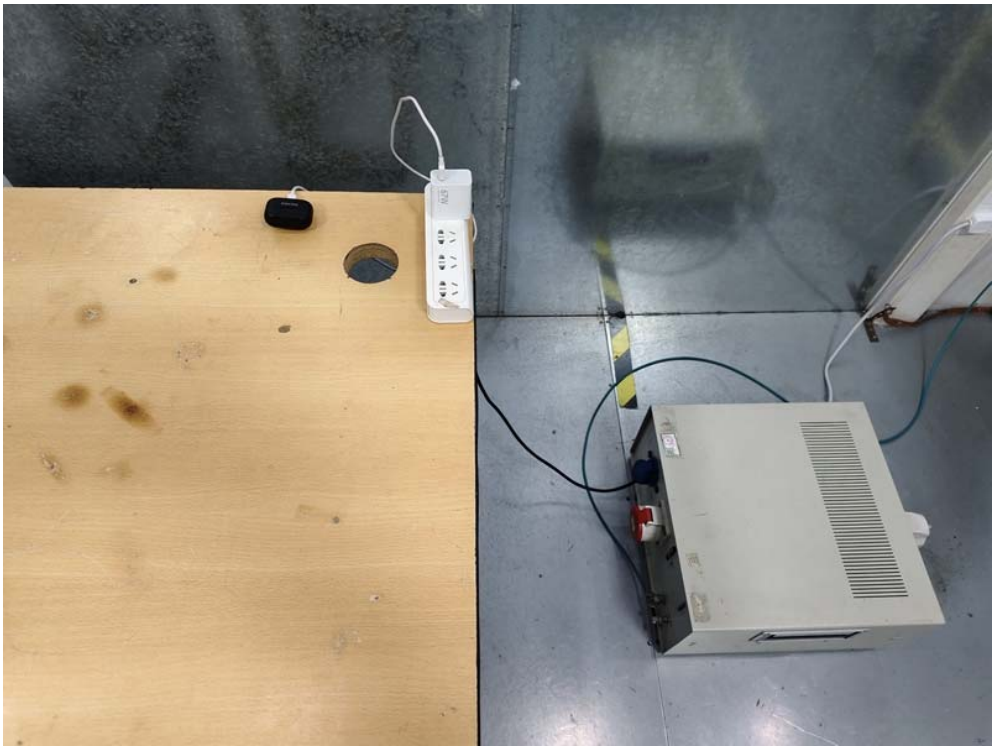
## 10.0 FCC ID Label

**FCC ID: 2BKO4-G101**

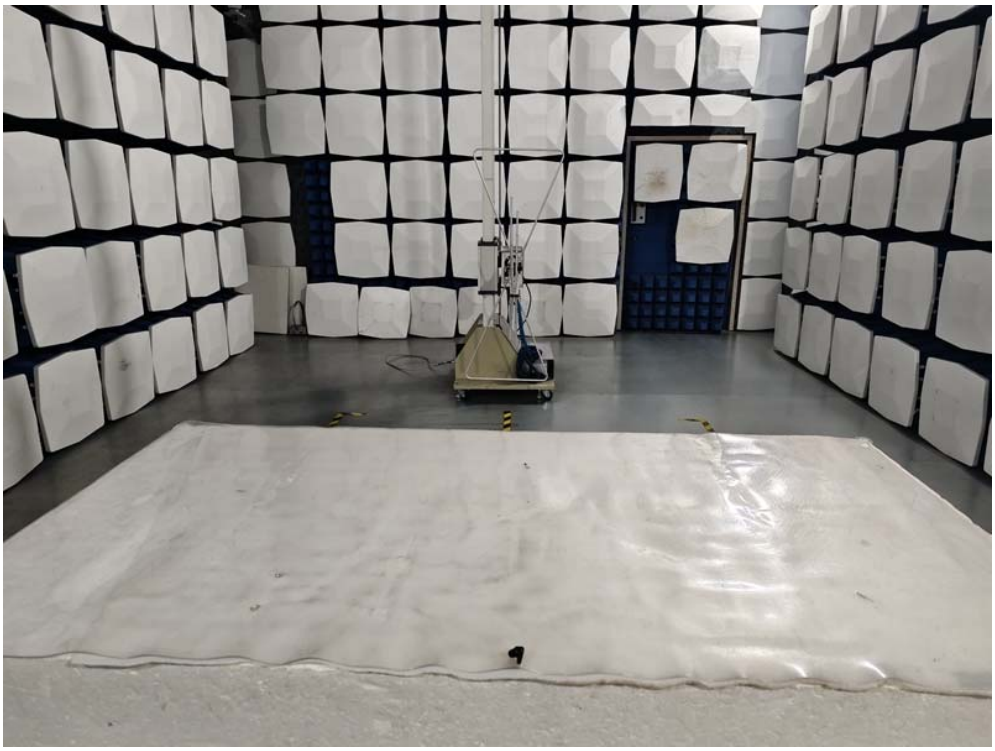
The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

**11.0** Photo of testing

11.1 Conducted test View



Radiated emission test view



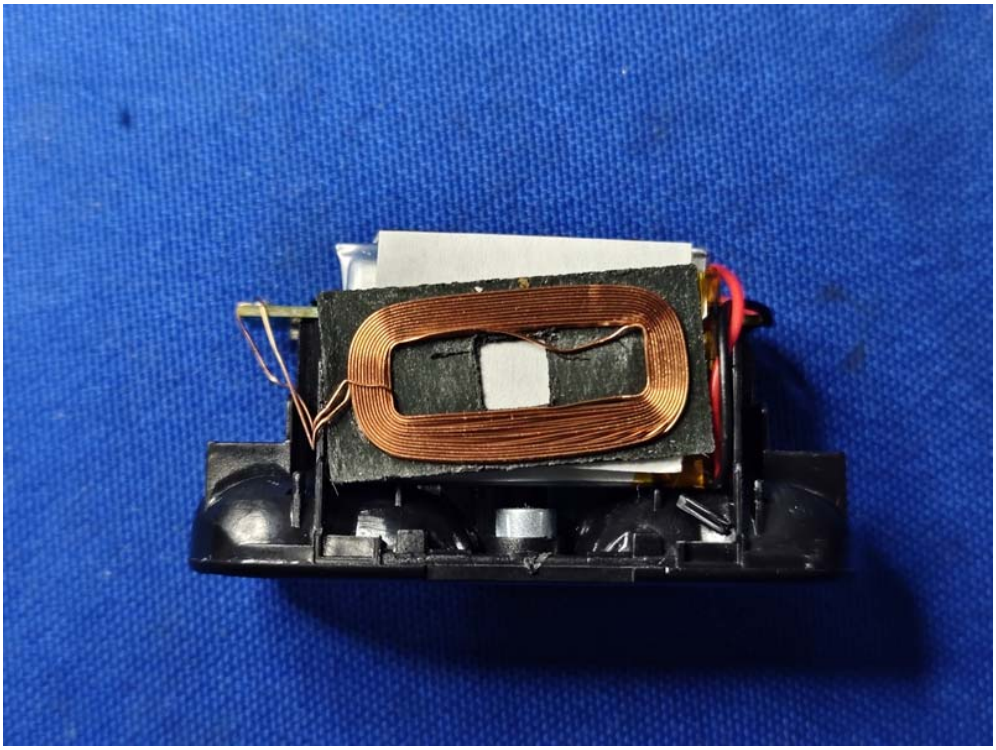
11.2 Photographs – EUT Outside View- charger base


Outside View - charger base

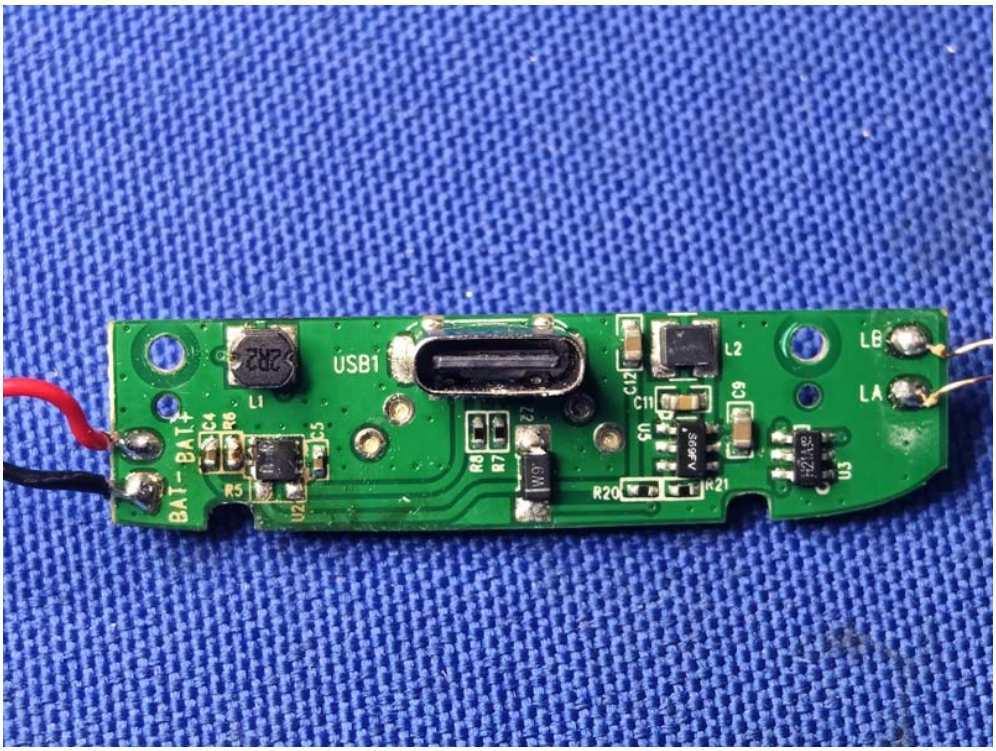

Outside View - charger base

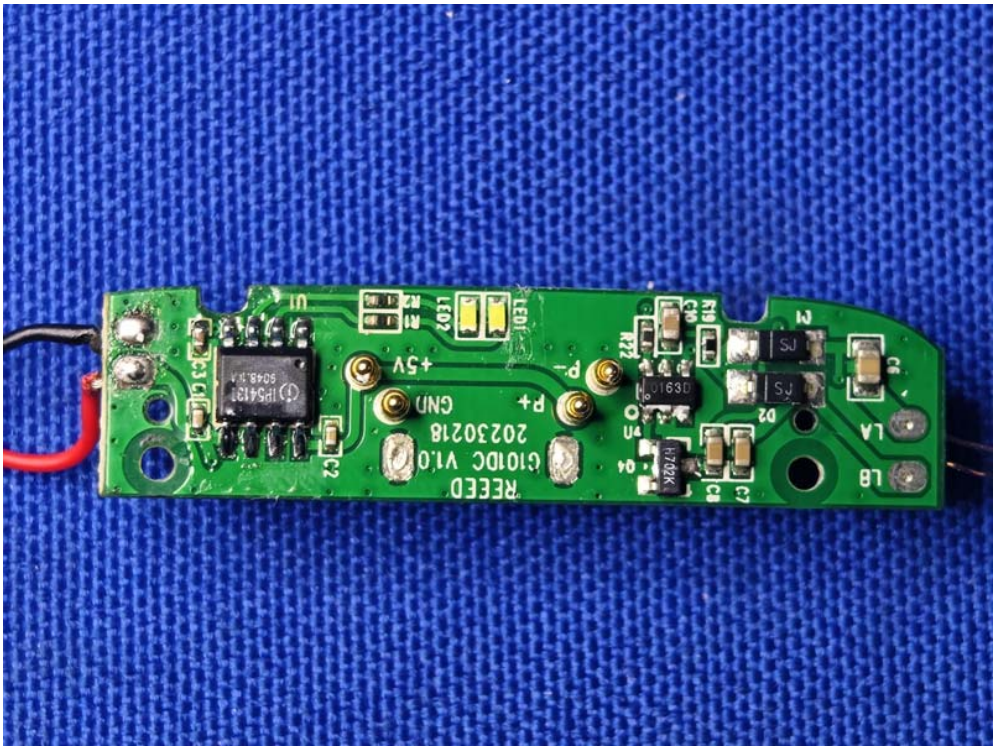

Outside View - charger base


Inside View - charger base

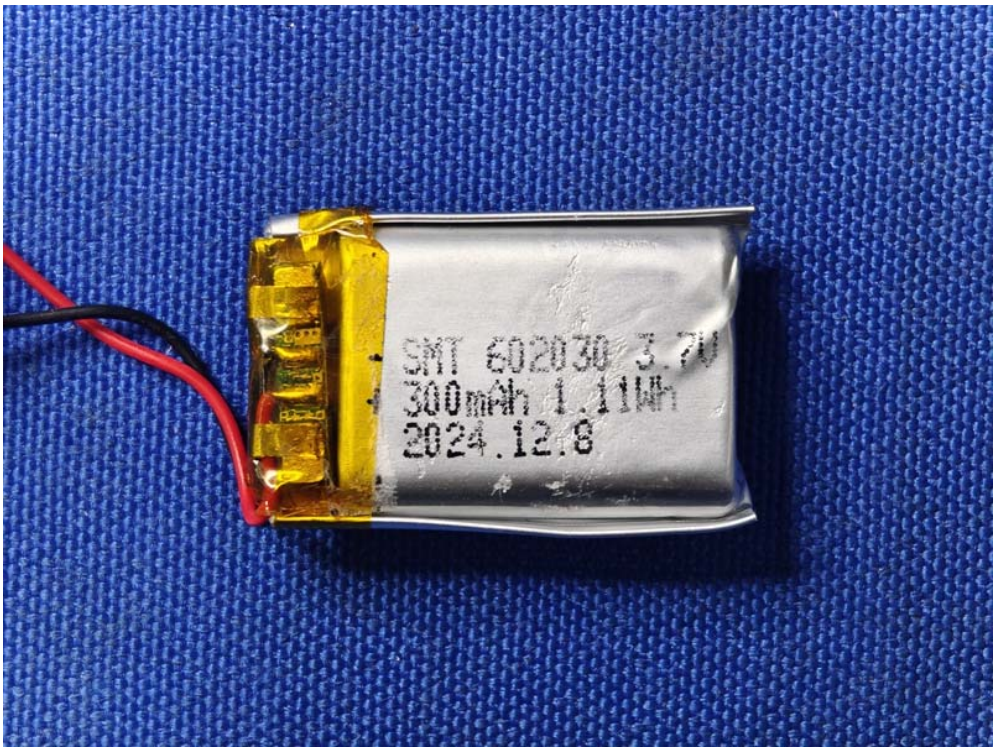



Inside View - charger base



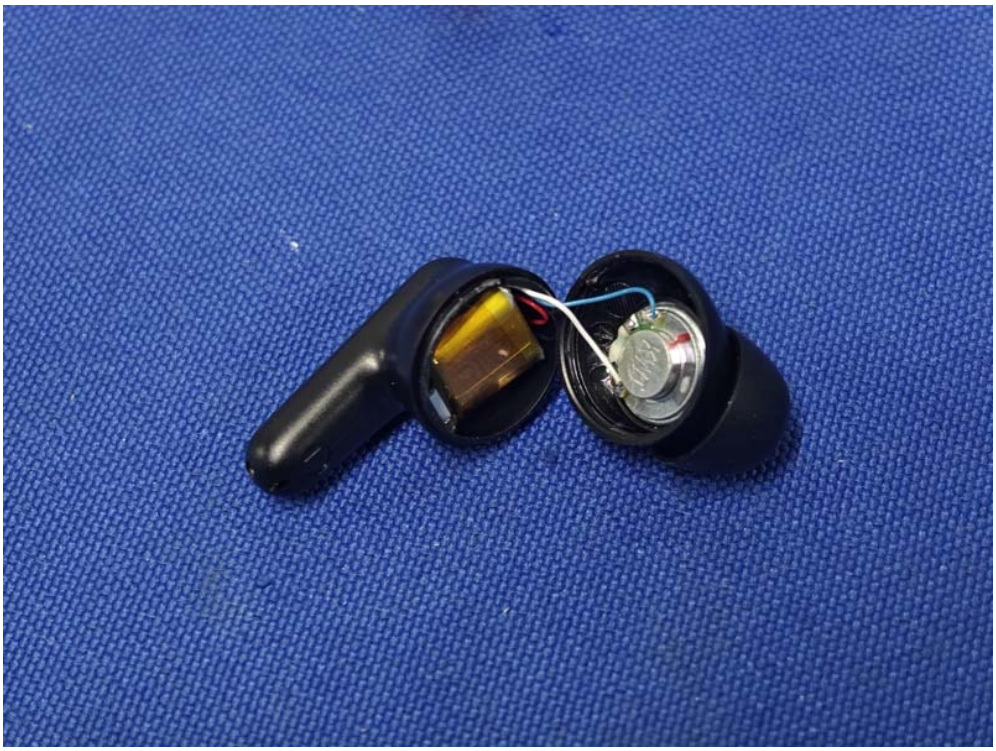
Inside View - charger base

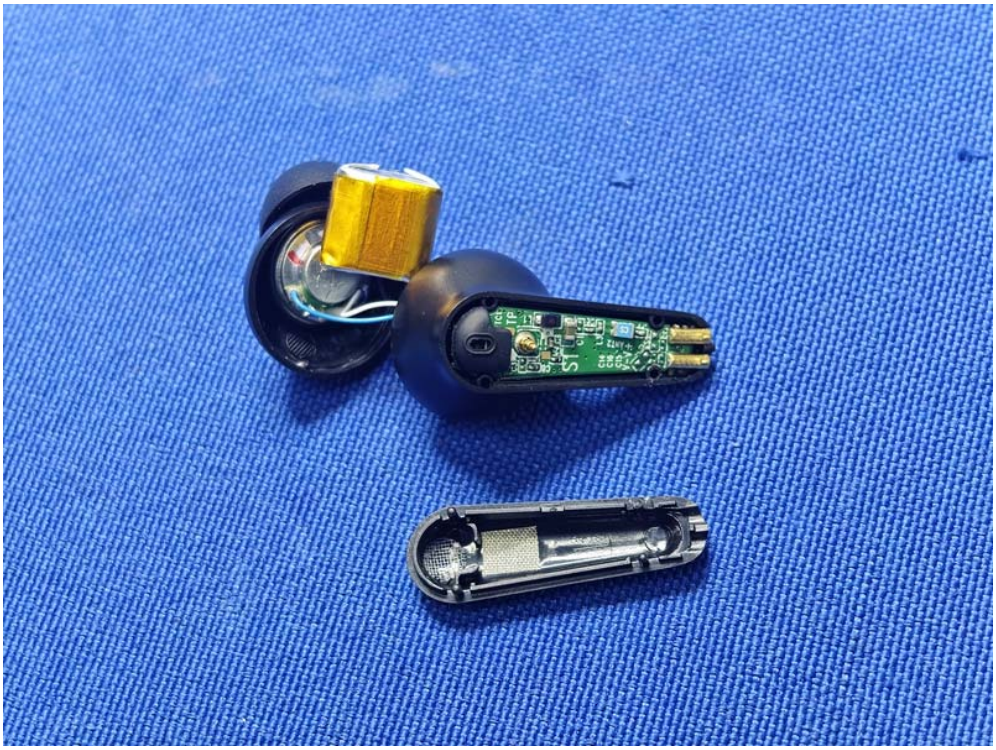


Outside View - Left earphone

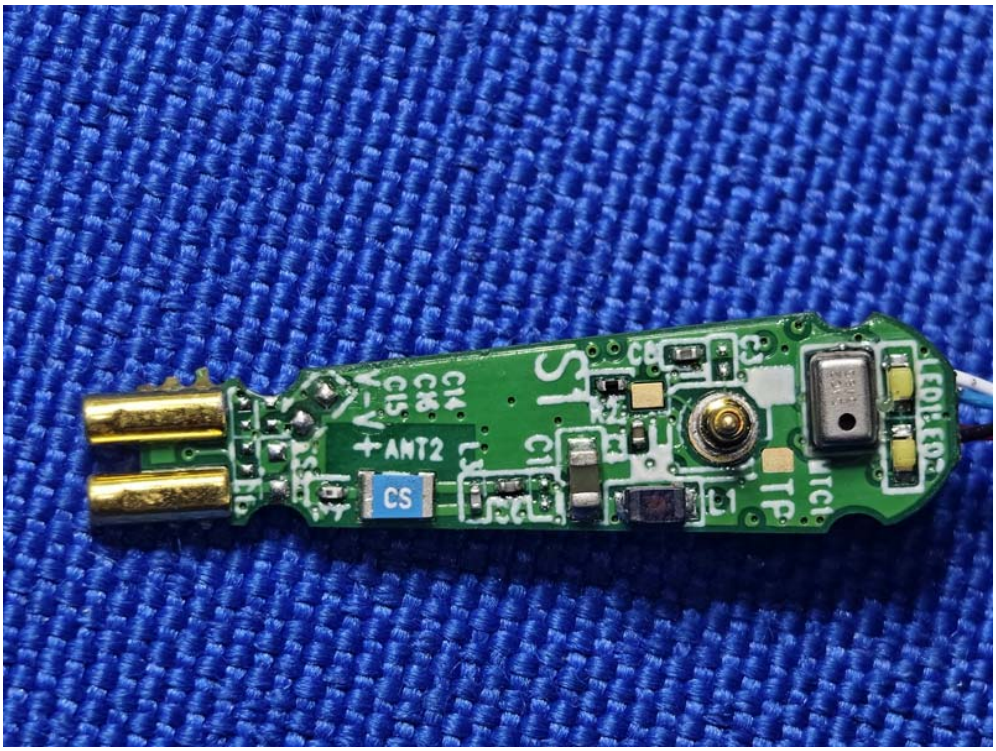
Outside View - Left earphone

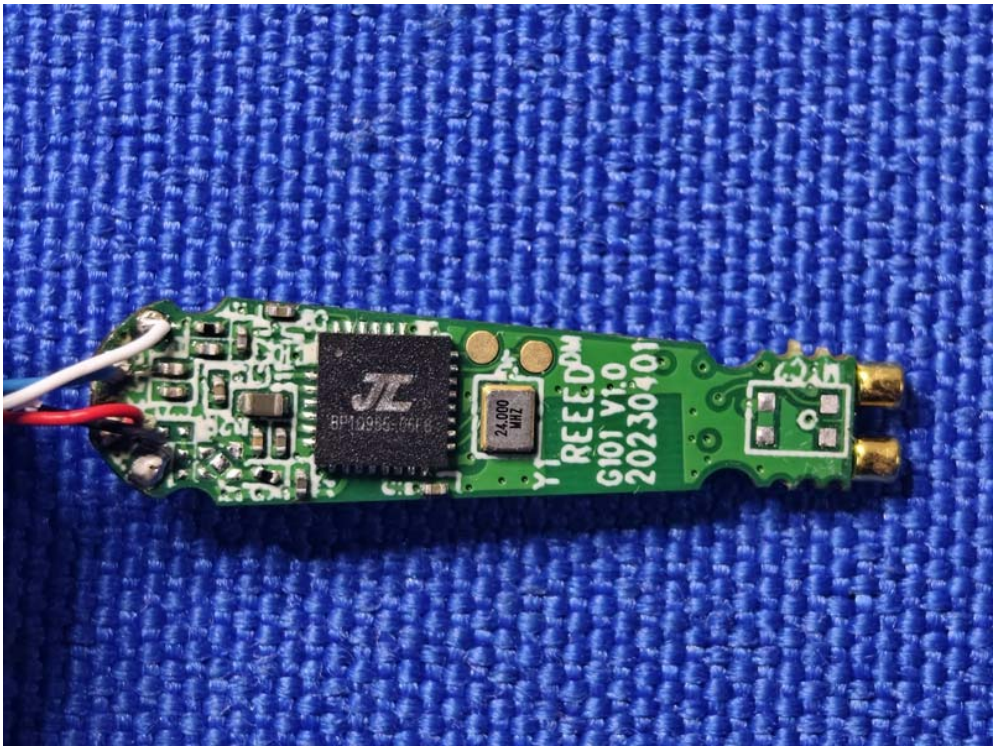
Inside View - Left earphone



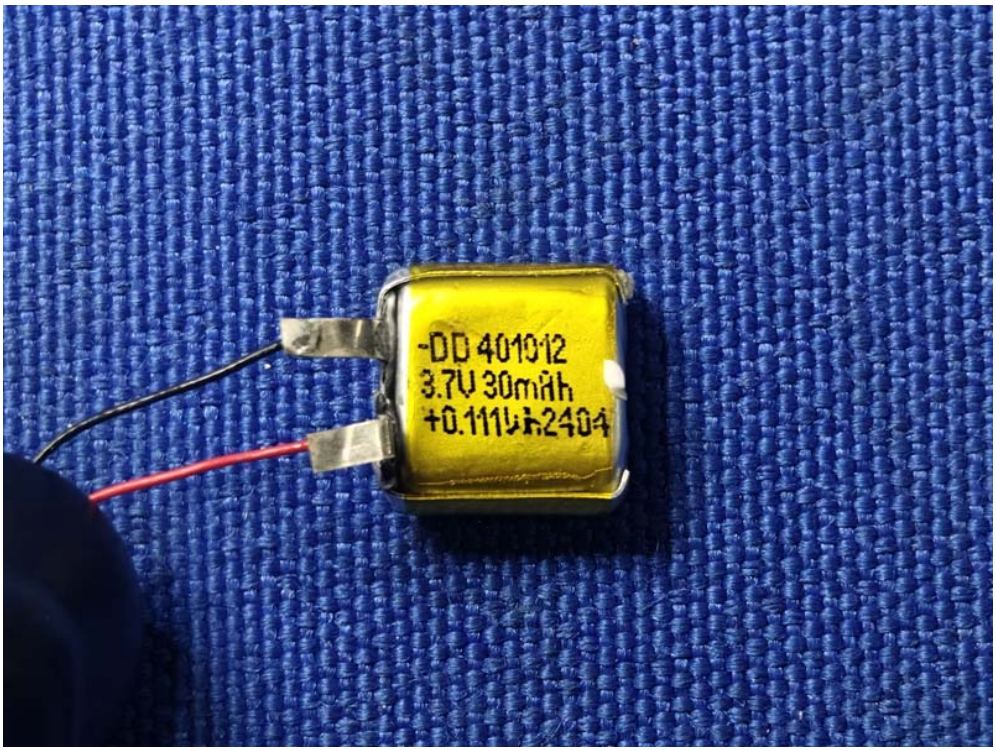


Inside View - Left earphone



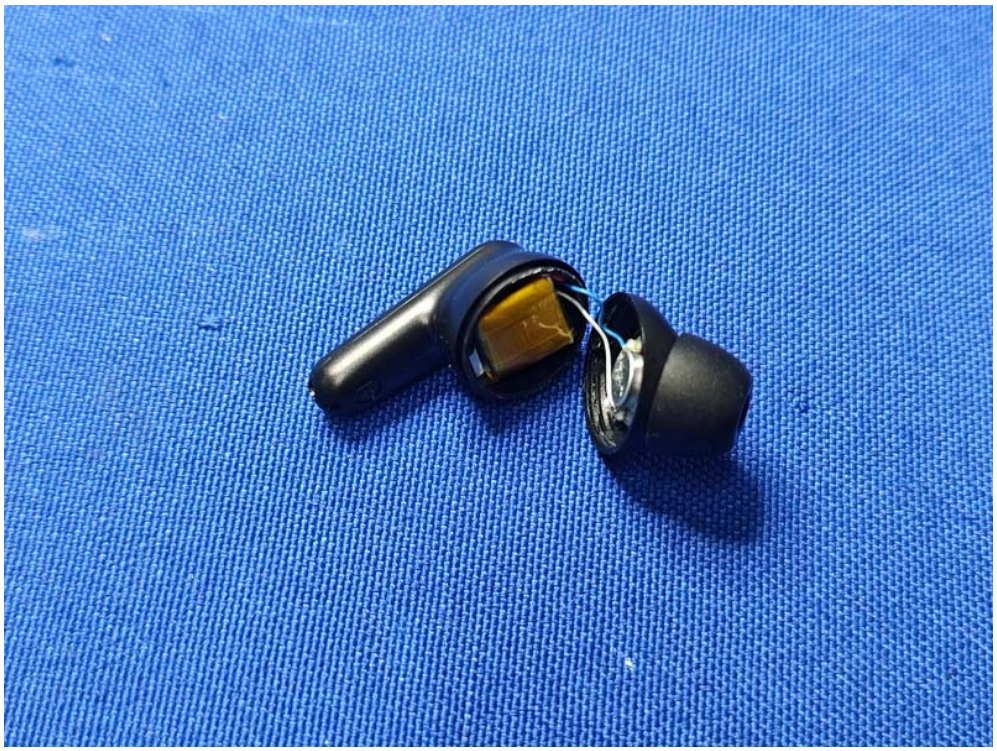
Inside View - Left earphone



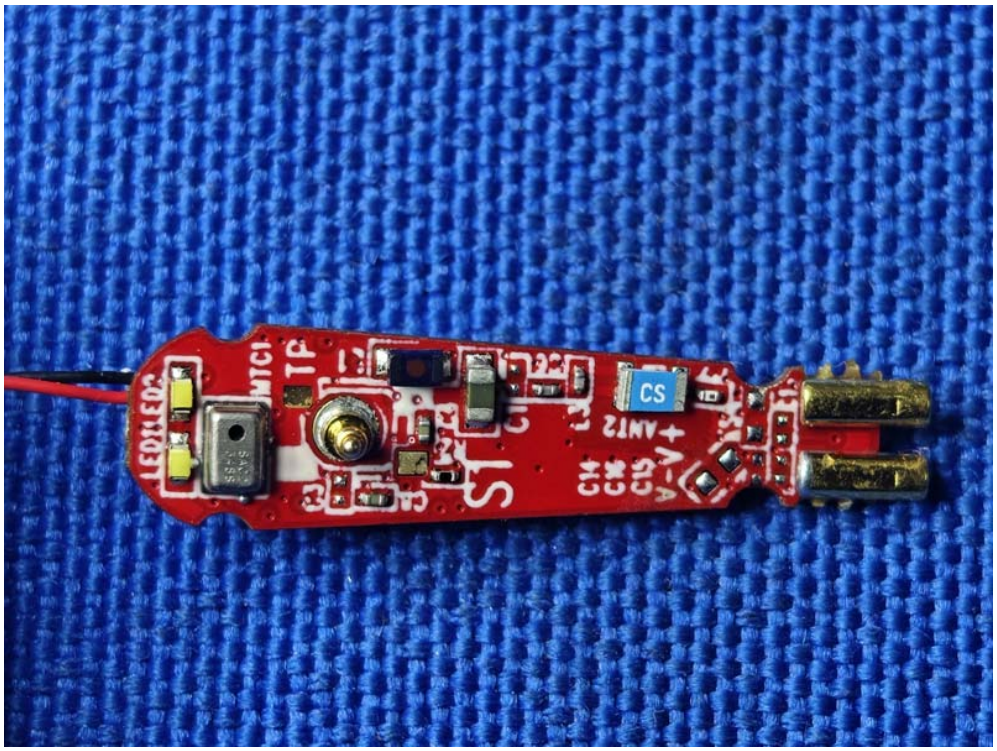
Outside View - Right earphone

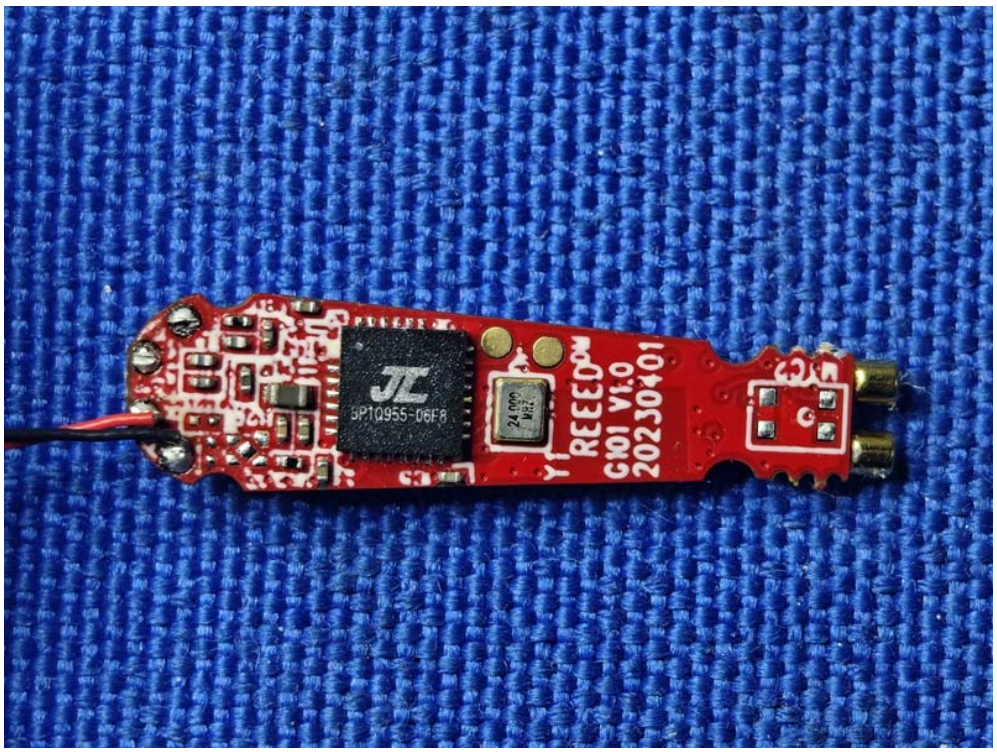
Outside View - Right earphone

Inside View - Right earphone

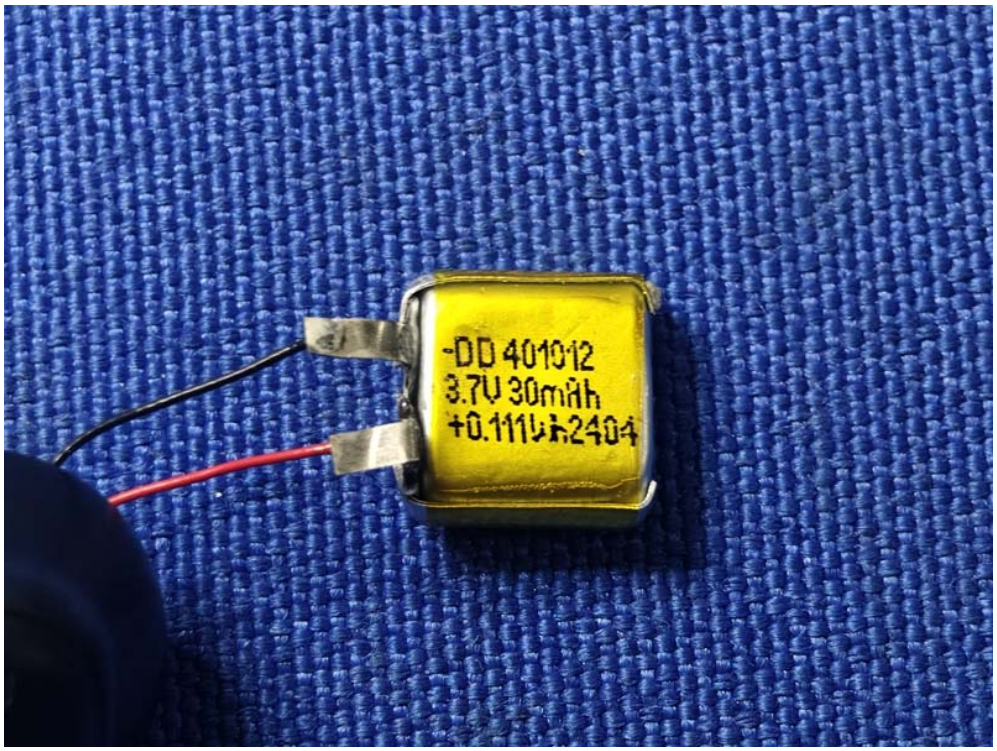


Inside View - Right earphone



Inside View - Right earphone




**--End of the report--**