

FCC Test Report

Report No.: AGC00427190402FE03

FCC ID : 2ADDH-MP38542
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : Bluetooth earphones
BRAND NAME : IIP
MODEL NAME : MP38542
CLIENT : Monoprice, Inc.
DATE OF ISSUE : May 09, 2019
STANDARD(S) : FCC Part 15 Subpart C Section 15.249
TEST PROCEDURE(S)
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|----------------|-------------|--------------|---------------|-----------------|
| V1.0 | / | May 09, 2019 | Valid | Initial release |

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1. VERIFICATION OF CONFORMITY

| | |
|---------------------------------|---|
| Applicant | Monoprice, Inc. |
| Address | 1 Pointe Drive Suite #400, Brea, CA 92821. |
| Manufacturer | SHENZHEN TRENDWOOD TECH CO., LTD |
| Address | the 12th Floor, Block B, Building 6, Baoneng Tech Park, No.1 Qingxiang Road, Longhua, Shenzhen, China |
| Factory | SHENZHEN TRENDWOOD TECH CO., LTD |
| Address | the 12th Floor, Block B, Building 6, Baoneng Tech Park, No.1 Qingxiang Road, Longhua, Shenzhen, China |
| Product Designation | IIIP braided headphones |
| Brand Name | IIIP |
| Test Model | MP38542 |
| Date of test | Apr. 30, 2019 to May 09, 2019 |
| Deviation | None |
| Condition of Test Sample | Normal |
| Test Result | Pass |
| Report Template | AGCRT-US-BR/RF |

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.249. The test results of this report relate only to the tested sample identified in this report.

Tested By

Draven Li

Draven Li(Li Ming Liang)

May 08, 2019

Reviewed By

Max Zhang

Max Zhang(Zhang Yi)

May 08, 2019

Approved By

Forrest Lei

Forrest Lei(Lei Yonggang)
 Authorized Officer

May 08, 2019

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

| | |
|-------------------------------|---|
| Operation Frequency | 2.402 GHz to 2.480GHz |
| Bluetooth Version | V5.0 |
| Maximum field strength | 77.78dBuV/m(average)@3m |
| Modulation | BR <input checked="" type="checkbox"/> GFSK, EDR <input checked="" type="checkbox"/> π /4-DQPSK, <input checked="" type="checkbox"/> 8DPSK BLE <input type="checkbox"/> GFSK 1Mbps <input type="checkbox"/> GFSK 2Mbps |
| Number of channels | 79 for BR/EDR |
| Hardware Version | V1.0 |
| Software Version | 6.31 |
| Antenna Designation | Chip Antenna |
| Antenna Gain | 1.9dBi |
| Power Supply | DC 3.7V by battery |

Note: The left and right channel headsets are the same. Only the test data of right headset recorded in this report.

2.2. TABLE OF CARRIER FREQUENCIES

BR/EDR channel List

| Frequency Band | Channel Number | Frequency |
|----------------|----------------|-----------|
| 2400~2483.5MHz | 00 | 2402MHz |
| | 01 | 2403MHz |
| | : | : |
| | 38 | 2440 MHz |
| | 39 | 2441 MHz |
| | 40 | 2442 MHz |
| | : | : |
| | 77 | 2479 MHz |
| | 78 | 2480 MHz |

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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

- Uncertainty of Conducted Emission, $U_c = \pm 3.2$ dB
- Uncertainty of Radiated Emission below 1GHz, $U_c = \pm 3.9$ dB
- Uncertainty of Radiated Emission above 1GHz, $U_c = \pm 4.8$ dB
- Uncertainty of Occupied Channel Bandwidth: $U_c = \pm 2$ %

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4. DESCRIPTION OF TEST MODES

| NO. | TEST MODE DESCRIPTION |
|-----|-------------------------------|
| 1 | Low channel GFSK |
| 2 | Middle channel GFSK |
| 3 | High channel GFSK |
| 4 | Low channel $\pi/4$ -DQPSK |
| 5 | Middle channel $\pi/4$ -DQPSK |
| 6 | High channel $\pi/4$ -DQPSK |
| 7 | Low channel 8DPSK |
| 8 | Middle channel 8DPSK |
| 9 | High channel 8DPSK |

- Note: 1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
3. The EUT used fully-charged battery when tested.
4. The test software is the Bluetest_V2.5.8.667 which can set the EUT into the individual test modes.

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure :



5.2. EQUIPMENT USED IN EUT SYSTEM

| Item | Equipment | Mfr/Brand | Model/Type No. | Remark |
|------|--------------|-----------|----------------|--------|
| 1 | IIIP braided | IIIP | MP38542 | EUT |

5.3. SUMMARY OF TEST RESULTS

| FCC RULES | DESCRIPTION OF TEST | RESULT |
|-----------------------|---------------------|-----------|
| §15.249(a) §15.209 | Radiated Emission | Compliant |
| §15.249(d) | Band Edges | Compliant |
| §15.207 | Conduction Emission | N/A |
| §15.215 | Band Width | Compliant |

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6. TEST FACILITY

| | |
|--|--|
| Test Site | Attestation of Global Compliance (Shenzhen) Co., Ltd |
| Location | 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China |
| Designation Number | CN1259 |
| FCC Test Firm Registration Number | 975832 |
| A2LA Cert. No. | 5054.02 |
| Description | Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA |

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7. TEST EQUIPMENT LIST
TEST EQUIPMENT OF RADIATED EMISSION TEST

| Equipment | Manufacturer | Model | S/N | Cal. Date | Cal. Due |
|--------------------------------|----------------|-----------|------------|---------------|---------------|
| TEST RECEIVER | R&S | ESCI | 10096 | Jun. 12, 2018 | Jun. 11, 2019 |
| EXA Signal Analyzer | Aglient | N9010A | MY53470504 | Dec. 20, 2018 | Dec. 19, 2019 |
| 2.4GHz Fliter | Micro-tronics | 087 | N/A | Jun. 12, 2018 | Jun. 11, 2019 |
| Attenuator | Weinachel Corp | 58-30-33 | N/A | Jun. 12, 2018 | Jun. 11, 2019 |
| Horn antenna | SCHWARZBECK | BBHA 9170 | #768 | Sep. 21, 2017 | Sep. 20, 2020 |
| Active loop antenna (9K-30MHz) | ZHINAN | ZN30900C | 18051 | Jun. 14, 2018 | Jun. 13, 2020 |
| Double-Ridged Waveguide Horn | ETS LINDGREN | 3117 | 00034609 | May. 26, 2018 | May. 25, 2020 |
| Broadband Preamplifier | ETS LINDGREN | 3117PA | 00225134 | Oct. 25, 2018 | Oct. 24, 2019 |
| ANTENNA | SCHWARZBECK | VULB9168 | D69250 | Sep. 28, 2017 | Sep. 27, 2019 |

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8. RADIATED EMISSION

8.1 TEST LIMIT

Standard FCC15.249

| Fundamental Frequency | Field Strength of Fundamental (millivolts/meter) | Field Strength of Harmonics (microvolts/meter) |
|-----------------------|--|--|
| 900-928MHz | 50 | 500 |
| 2400-2483.5MHz | 50 | 500 |
| 5725-5875MHz | 50 | 500 |
| 24.0-24.25GHz | 250 | 2500 |

Standard FCC 15.209

| Frequency (MHz) | Distance Meters | Field Strengths Limit | |
|-----------------|-----------------|--|----------------|
| | | μ V/m | dB(μ V)/m |
| 0.009 ~ 0.490 | 300 | 2400/F(kHz) | --- |
| 0.490 ~ 1.705 | 30 | 24000/F(kHz) | --- |
| 1.705 ~ 30 | 30 | 30 | --- |
| 30 ~ 88 | 3 | 100 | 40.0 |
| 88 ~ 216 | 3 | 150 | 43.5 |
| 216 ~ 960 | 3 | 200 | 46.0 |
| 960 ~ 1000 | 3 | 500 | 54.0 |
| Above 1000 | 3 | Other:74.0 dB(μ V)/m (Peak) 54.0 dB(μ V)/m (Average) | |

Remark: (1) Emission level dB μ V = 20 log Emission level μ V/m
 (2) The smaller limit shall apply at the cross point between two frequency bands.
 (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

8.2. MEASUREMENT PROCEDURE

1. The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Below 1GHz)
2. The measuring distance of 3m shall used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Above 1GHz)
3. The height of the test antenna shall vary between 1m to 4m.Both horizontal and vertical polarization Of the antenna are set to make the measurement.
4. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
5. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform(Below 1GHz)
6. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak & AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(Above 1GHz)

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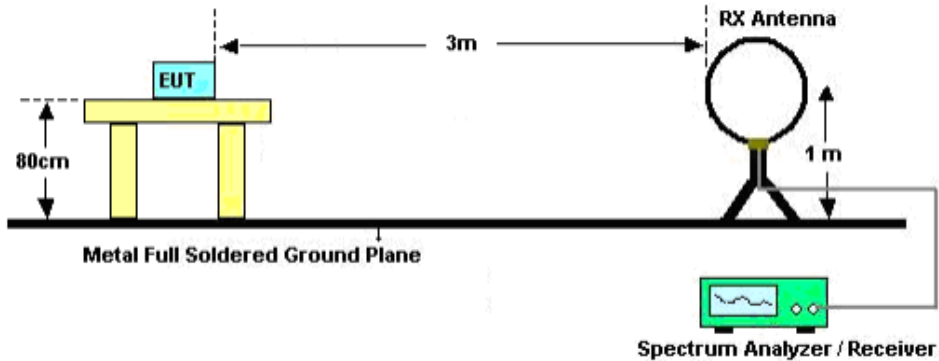
The following table is the setting of spectrum analyzer and receiver.

| Spectrum Parameter | Setting |
|-----------------------|--|
| Start ~Stop Frequency | 9KHz~150KHz/RB 200Hz for QP |
| Start ~Stop Frequency | 150KHz~30MHz/RB 9KHz for QP |
| Start ~Stop Frequency | 30MHz~1000MHz/RB 120KHz for QP |
| Start ~Stop Frequency | Fundamental: 2.4~2.483GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/ VBW 10Hz for Average Harmonics: 1GHz~25GHz RBW 1MHz/ VBW 3MHz for Peak, RBW 1MHz/ VBW 10Hz for Average |
| Receiver Parameter | Setting |
| Start ~Stop Frequency | 9KHz~150KHz/RB 200Hz for QP |
| Start ~Stop Frequency | 150KHz~30MHz/RB 9KHz for QP |
| Start ~Stop Frequency | 30MHz~1000MHz/RB 120KHz for QP |

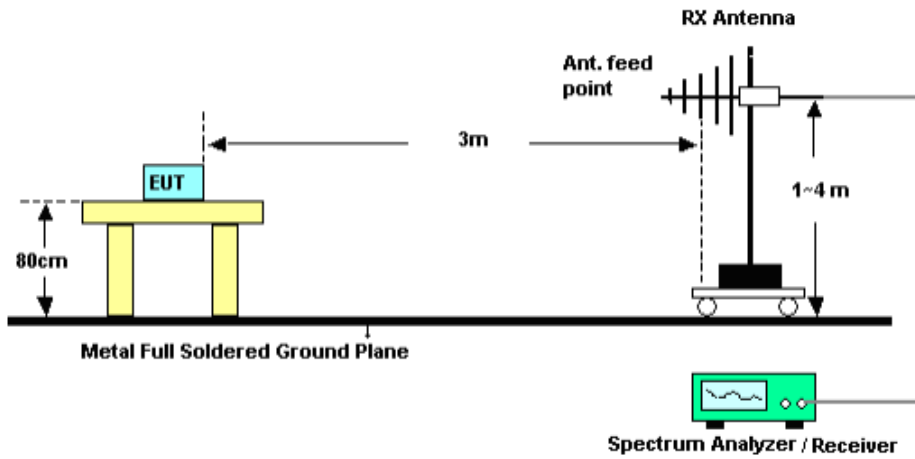
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8.3. TEST SETUP

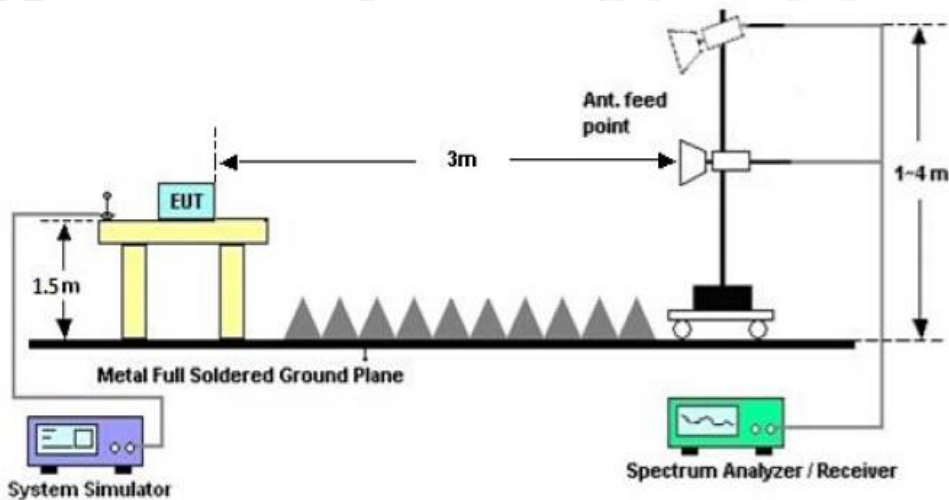
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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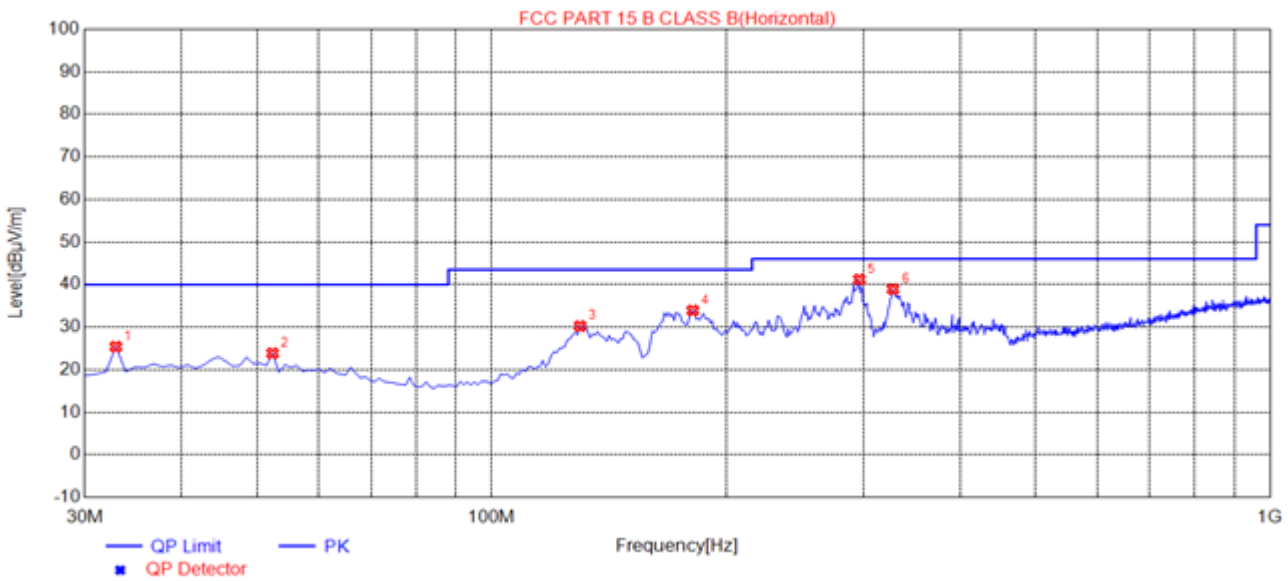
8.4. TEST RESULT

RADIATED EMISSION BELOW 30MHz

No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION 30MHz- 1GHz FOR BR/EDR

| | | | |
|---------------|-------------------------|---------------------|------------|
| EUT : | IIIP braided headphones | Model Name. : | MP38542 |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 3.7V |
| Test Mode : | Mode 7 | Polarization : | Horizontal |

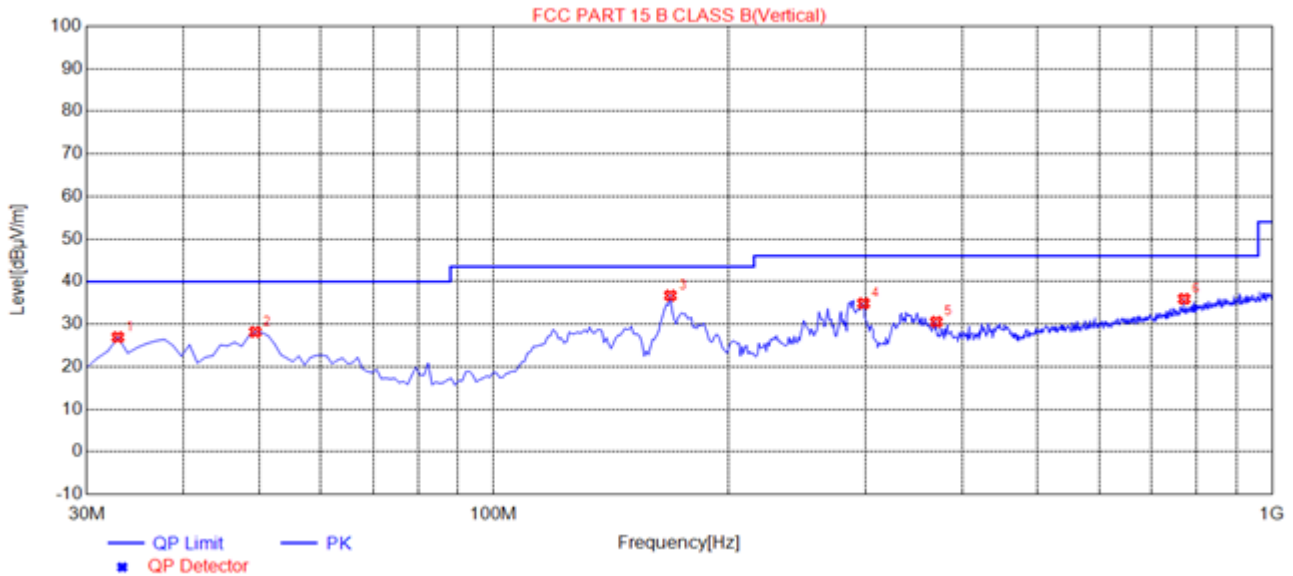


| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1 | 32.9100 | 25.40 | 13.36 | 40.00 | 14.60 | 100 | 359 | Horizontal |
| 2 | 52.3100 | 23.86 | 14.49 | 40.00 | 16.14 | 100 | 208 | Horizontal |
| 3 | 129.9100 | 30.24 | 14.14 | 43.50 | 13.26 | 150 | 202 | Horizontal |
| 4 | 181.3200 | 33.91 | 12.93 | 43.50 | 9.59 | 200 | 190 | Horizontal |
| 5 | 296.7500 | 41.19 | 15.96 | 46.00 | 4.81 | 100 | 67 | Horizontal |
| 6 | 327.7900 | 38.92 | 16.99 | 46.00 | 7.08 | 100 | 208 | Horizontal |

RESULT: PASS

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| | | | |
|---------------|-------------------------|---------------------|----------|
| EUT : | IIIP braided headphones | Model Name. : | MP38542 |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 3.7V |
| Test Mode : | Mode 7 | Polarization : | Vertical |



| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1 | 32.9100 | 26.93 | 13.36 | 40.00 | 13.07 | 100 | 250 | Vertical |
| 2 | 49.4000 | 28.16 | 14.69 | 40.00 | 11.84 | 100 | 279 | Vertical |
| 3 | 168.7100 | 36.71 | 14.08 | 43.50 | 6.79 | 100 | 304 | Vertical |
| 4 | 298.6900 | 34.87 | 15.92 | 46.00 | 11.13 | 100 | 246 | Vertical |
| 5 | 370.4700 | 30.54 | 18.63 | 46.00 | 15.46 | 150 | 193 | Vertical |
| 6 | 771.0800 | 35.92 | 27.71 | 46.00 | 10.08 | 100 | 192 | Vertical |

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin= Limit -Level.

2. The "Factor" value can be calculated automatically by software of measurement system.

3. The mode 7 is the worst case, and only the data of the worst case recorded in this test report.

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FIELD STRENGTH OF FUNDAMENTAL FOR BR/EDR

| | | | |
|-------------------|-------------------------|---------------------|------------|
| EUT : | IIIP braided headphones | Model Name. : | MP38542 |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 3.7V |
| Test Modulation : | GFSK | Polarization : | Horizontal |

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Value Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|------------|
| 2402.021 | 65.45 | 13.46 | 78.91 | 114.00 | -35.09 | peak |
| 2402.021 | 64.32 | 13.46 | 77.78 | 94.00 | -16.22 | AVG |
| 2441.021 | 64.84 | 13.88 | 78.72 | 114.00 | -35.28 | peak |
| 2441.021 | 63.66 | 13.88 | 77.54 | 94.00 | -16.46 | AVG |
| 2480.021 | 64.32 | 14.11 | 78.43 | 114.00 | -35.57 | peak |
| 2480.021 | 63.07 | 14.11 | 77.18 | 94.00 | -16.82 | AVG |

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| | | | |
|-------------------|-------------------------|---------------------|----------|
| EUT : | IIIP braided headphones | Model Name. : | MP38542 |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 3.7V |
| Test Modulation : | GFSK | Polarization : | Vertical |

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Value Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|------------|
| 2402.021 | 63.50 | 13.46 | 76.96 | 114.00 | -37.04 | peak |
| 2402.021 | 61.95 | 13.46 | 75.41 | 94.00 | -18.59 | AVG |
| 2441.021 | 62.90 | 13.88 | 76.78 | 114.00 | -37.22 | peak |
| 2441.021 | 61.31 | 13.88 | 75.19 | 94.00 | -18.81 | AVG |
| 2480.021 | 62.23 | 14.11 | 76.34 | 114.00 | -37.66 | peak |
| 2480.021 | 60.67 | 14.11 | 74.78 | 94.00 | -19.22 | AVG |

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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| | | | |
|-------------------|-------------------------|---------------------|------------|
| EUT : | IIIP braided headphones | Model Name. : | MP38542 |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 3.7V |
| Test Modulation : | π /4-DQPSK | Polarization : | Horizontal |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|---|---------------|--------|----------------|----------------|--------|------------|
| (MHz) | (dB μ V) | (dB) | (dB μ V/m) | (dB μ V/m) | (dB) | |
| 2402.021 | 65.08 | 13.46 | 78.54 | 114.00 | -35.46 | peak |
| 2402.021 | 62.79 | 13.46 | 76.25 | 94.00 | -17.75 | AVG |
| 2441.021 | 63.80 | 13.88 | 77.68 | 114.00 | -36.32 | peak |
| 2441.021 | 61.54 | 13.88 | 75.42 | 94.00 | -18.58 | AVG |
| 2480.021 | 63.25 | 14.11 | 77.36 | 114.00 | -36.64 | peak |
| 2480.021 | 61.08 | 14.11 | 75.19 | 94.00 | -18.81 | AVG |
| Remark: | | | | | | |
| Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |

| | | | |
|-------------------|-------------------------|---------------------|----------|
| EUT : | IIIP braided headphones | Model Name. : | MP38542 |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 3.7V |
| Test Modulation : | π /4-DQPSK | Polarization : | Vertical |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|---|---------------|--------|----------------|----------------|--------|------------|
| (MHz) | (dB μ V) | (dB) | (dB μ V/m) | (dB μ V/m) | (dB) | |
| 2402.021 | 62.02 | 13.46 | 75.48 | 114.00 | -38.52 | peak |
| 2402.021 | 60.35 | 13.46 | 73.81 | 94.00 | -20.19 | AVG |
| 2441.021 | 61.66 | 13.88 | 75.54 | 114.00 | -38.46 | peak |
| 2441.021 | 59.80 | 13.88 | 73.68 | 94.00 | -20.32 | AVG |
| 2480.021 | 60.87 | 14.11 | 74.98 | 114.00 | -39.02 | peak |
| 2480.021 | 58.54 | 14.11 | 72.65 | 94.00 | -21.35 | AVG |
| Remark: | | | | | | |
| Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |

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| | | | |
|-------------------|-------------------------|---------------------|------------|
| EUT : | IIIP braided headphones | Model Name. : | MP38542 |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 3.7V |
| Test Modulation : | 8DPSK | Polarization : | Horizontal |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|---|---------------|--------|----------------|----------|--------|------------|
| (MHz) | (dBμV) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | |
| 2402.021 | 64.68 | 13.46 | 78.14 | 114.00 | -35.86 | peak |
| 2402.021 | 62.39 | 13.46 | 75.85 | 94.00 | -18.15 | AVG |
| 2441.021 | 63.27 | 13.88 | 77.15 | 114.00 | -36.85 | peak |
| 2441.021 | 61.38 | 13.88 | 75.26 | 94.00 | -18.74 | AVG |
| 2480.021 | 62.28 | 14.11 | 76.39 | 114.00 | -37.61 | peak |
| 2480.021 | 60.15 | 14.11 | 74.26 | 94.00 | -19.74 | AVG |
| Remark: | | | | | | |
| Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |

| | | | |
|-------------------|-------------------------|---------------------|----------|
| EUT : | IIIP braided headphones | Model Name. : | MP38542 |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 3.7V |
| Test Modulation : | 8DPSK | Polarization : | Vertical |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|---|---------------|--------|----------------|----------|--------|------------|
| (MHz) | (dBμV) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | |
| 2402.021 | 62.22 | 13.46 | 75.68 | 114.00 | -38.32 | peak |
| 2402.021 | 60.59 | 13.46 | 74.05 | 94.00 | -19.95 | AVG |
| 2441.021 | 61.81 | 13.88 | 75.69 | 114.00 | -38.31 | peak |
| 2441.021 | 59.96 | 13.88 | 73.84 | 94.00 | -20.16 | AVG |
| 2480.021 | 61.04 | 14.11 | 75.15 | 114.00 | -38.85 | peak |
| 2480.021 | 59.55 | 14.11 | 73.66 | 94.00 | -20.34 | AVG |
| Remark: | | | | | | |
| Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |

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RADIATED EMISSION ABOVE 1GHZ FOR BR/EDR

| | | | |
|---------------|-------------------------|---------------------|------------|
| EUT : | IIIP braided headphones | Model Name. : | MP38542 |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 3.7V |
| Test Mode : | Mode 1 | Polarization : | Horizontal |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|---|---------------|--------|----------------|----------------|--------|------------|
| (MHz) | (dB μ V) | (dB) | (dB μ V/m) | (dB μ V/m) | (dB) | |
| 4804.026 | 46.63 | 3.76 | 50.39 | 74.00 | -23.61 | peak |
| 4804.026 | 42.46 | 3.76 | 46.22 | 54.00 | -7.78 | AVG |
| 7206.039 | 41.50 | 8.17 | 49.67 | 74.00 | -24.33 | peak |
| 7206.039 | 38.80 | 8.17 | 46.97 | 54.00 | -7.03 | AVG |
| Remark: | | | | | | |
| Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |

| | | | |
|---------------|-------------------------|---------------------|----------|
| EUT : | IIIP braided headphones | Model Name. : | MP38542 |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 3.7V |
| Test Mode : | Mode 1 | Polarization : | Vertical |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|---|---------------|--------|----------------|----------------|--------|------------|
| (MHz) | (dB μ V) | (dB) | (dB μ V/m) | (dB μ V/m) | (dB) | |
| 4804.026 | 48.55 | 3.76 | 52.31 | 74.00 | -21.69 | peak |
| 4804.026 | 46.41 | 3.76 | 50.17 | 54.00 | -3.83 | AVG |
| 7206.039 | 41.60 | 8.17 | 49.77 | 74.00 | -24.23 | peak |
| 7206.039 | 39.89 | 8.17 | 48.06 | 54.00 | -5.94 | AVG |
| Remark: | | | | | | |
| Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |

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| | | | |
|---------------|-------------------------|---------------------|------------|
| EUT : | IIIP braided headphones | Model Name. : | MP38542 |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 3.7V |
| Test Mode : | Mode 2 | Polarization : | Horizontal |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|---|---------------|--------|----------------|----------------|--------|------------|
| (MHz) | (dB μ V) | (dB) | (dB μ V/m) | (dB μ V/m) | (dB) | |
| 4882.042 | 49.69 | 3.78 | 53.47 | 74.00 | -20.53 | peak |
| 4882.042 | 47.47 | 3.78 | 51.25 | 54.00 | -2.75 | AVG |
| 7323.063 | 40.38 | 8.23 | 48.61 | 74.00 | -25.39 | peak |
| 7323.063 | 36.86 | 8.23 | 45.09 | 54.00 | -8.91 | AVG |
| Remark: | | | | | | |
| Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |

| | | | |
|---------------|-------------------------|---------------------|----------|
| EUT : | IIIP braided headphones | Model Name. : | MP38542 |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 3.7V |
| Test Mode : | Mode 2 | Polarization : | Vertical |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|---|---------------|--------|----------------|----------------|--------|------------|
| (MHz) | (dB μ V) | (dB) | (dB μ V/m) | (dB μ V/m) | (dB) | |
| 4882.042 | 47.55 | 3.78 | 51.33 | 74.00 | -22.67 | peak |
| 4882.042 | 45.53 | 3.78 | 49.31 | 54.00 | -4.69 | AVG |
| 7323.063 | 39.43 | 8.23 | 47.66 | 74.00 | -26.34 | peak |
| 7323.063 | 38.04 | 8.23 | 46.27 | 54.00 | -7.73 | AVG |
| Remark: | | | | | | |
| Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |

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| | | | |
|---------------|-------------------------|---------------------|------------|
| EUT : | IIIP braided headphones | Model Name. : | MP38542 |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 3.7V |
| Test Mode : | Mode 3 | Polarization : | Horizontal |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|---|---------------|--------|----------------|----------|--------|------------|
| (MHz) | (dBμV) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | |
| 4960.042 | 48.13 | 3.81 | 51.94 | 74.00 | -22.06 | peak |
| 4960.042 | 44.86 | 3.81 | 48.67 | 54.00 | -5.33 | AVG |
| 7440.063 | 38.10 | 8.27 | 46.37 | 74.00 | -27.63 | peak |
| 7440.063 | 35.79 | 8.27 | 44.06 | 54.00 | -9.94 | AVG |
| Remark: | | | | | | |
| Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |

| | | | |
|---------------|-------------------------|---------------------|----------|
| EUT : | IIIP braided headphones | Model Name. : | MP38542 |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 3.7V |
| Test Mode : | Mode 3 | Polarization : | Vertical |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|---|---------------|--------|----------------|----------|--------|------------|
| (MHz) | (dBμV) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | |
| 4960.042 | 46.01 | 3.81 | 49.82 | 74.00 | -24.18 | peak |
| 4960.042 | 42.96 | 3.81 | 46.77 | 54.00 | -7.23 | AVG |
| 7440.063 | 34.94 | 8.27 | 43.21 | 74.00 | -30.79 | peak |
| 7440.063 | 32.61 | 8.27 | 40.88 | 54.00 | -13.12 | AVG |
| Remark: | | | | | | |
| Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |

Note: Other emissions from 8G to 25 GHz are considered as ambient noise. No recording in the test report.

Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

The GFSK modulation was the worst case and only the data of worst recorded in this report.

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9. BAND EDGE EMISSION

9.1 TEST LIMIT

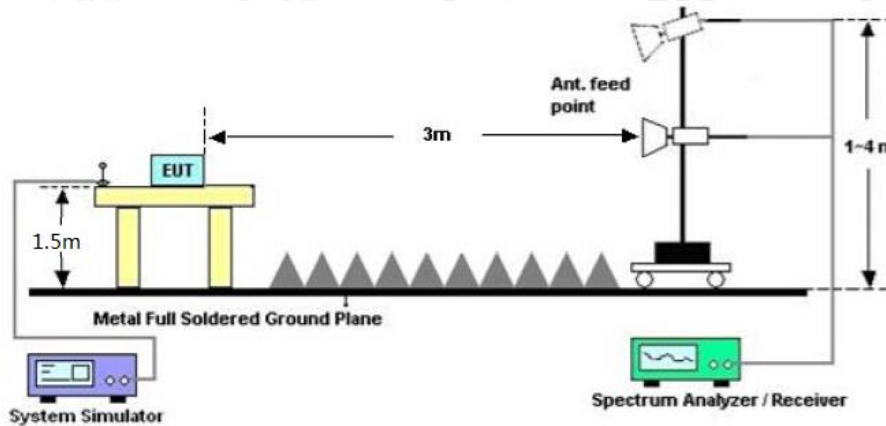
| Frequency Band | Limit of the Field Strength (dB μ V/m) | |
|---------------------------|--|---------|
| | Peak | Average |
| $f \leq 2400\text{MHz}$ | 74 | 54 |
| $f \geq 2483.5\text{MHz}$ | 74 | 54 |

9.2. MEASUREMENT PROCEDURE

1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission: (a) PEAK: RBW=1MHz, VBW=3MHz / Sweep=AUTO
(b) AVERAGE: RBW=1MHz ; VBW=3MHz / Sweep=AUTO
3. Other procedures refer to clause 8.2.

9.3 TEST SETUP

RADIATED EMISSION TEST SETUP



9.4 TEST RESULT

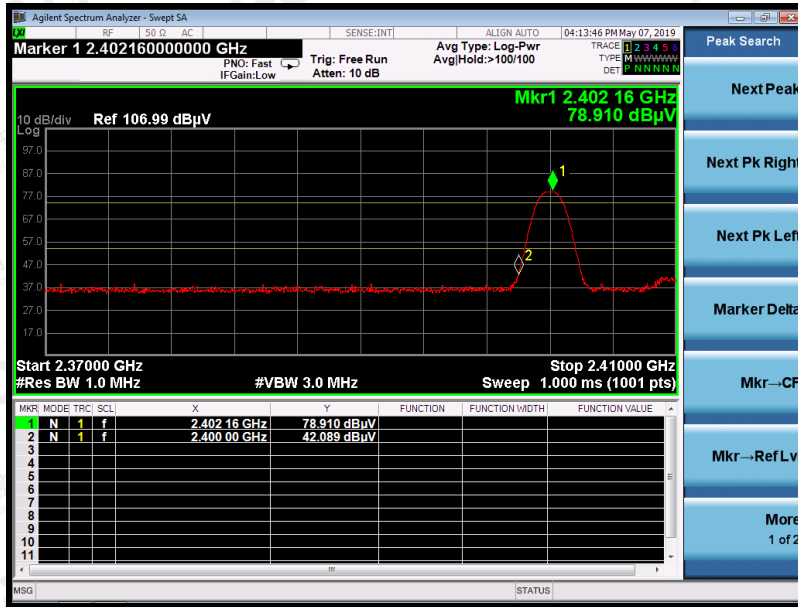
Note:

1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level
2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.

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| | | | |
|---------------|-------------------------|---------------------|------------|
| EUT : | IIIP braided headphones | Model Name. : | MP38542 |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 3.7V |
| Test Mode : | Mode 1 | Polarization : | Horizontal |

Peak Value



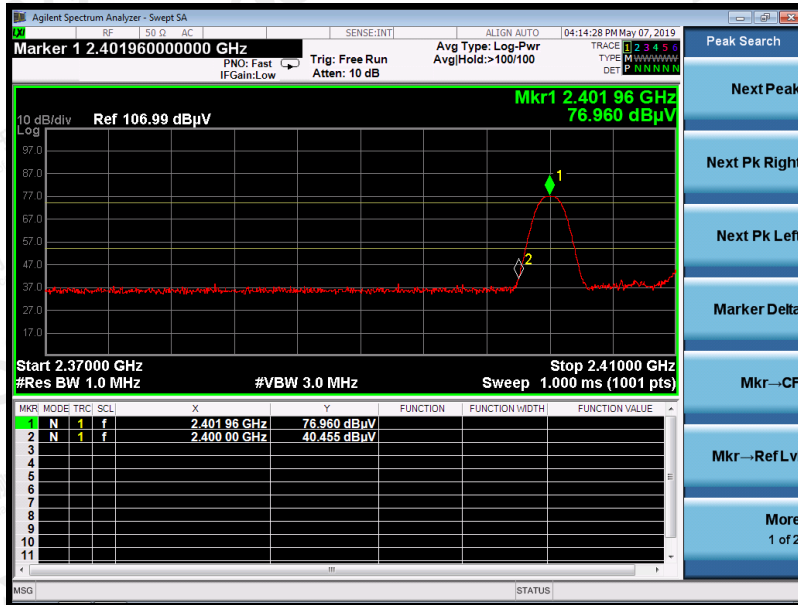
Average Value



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| | | | |
|---------------|-------------------------|---------------------|----------|
| EUT : | IIIP braided headphones | Model Name. : | MP38542 |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 3.7V |
| Test Mode : | Mode 1 | Polarization : | Vertical |

Peak Value



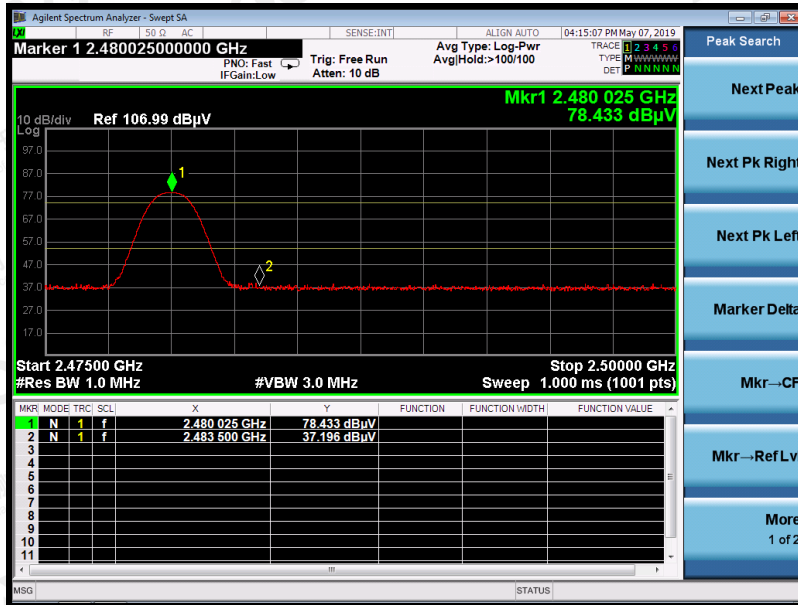
Average Value



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| | | | |
|---------------|-------------------------|---------------------|------------|
| EUT : | IIIP braided headphones | Model Name. : | MP38542 |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 3.7V |
| Test Mode : | Mode 3 | Polarization : | Horizontal |

Peak Value



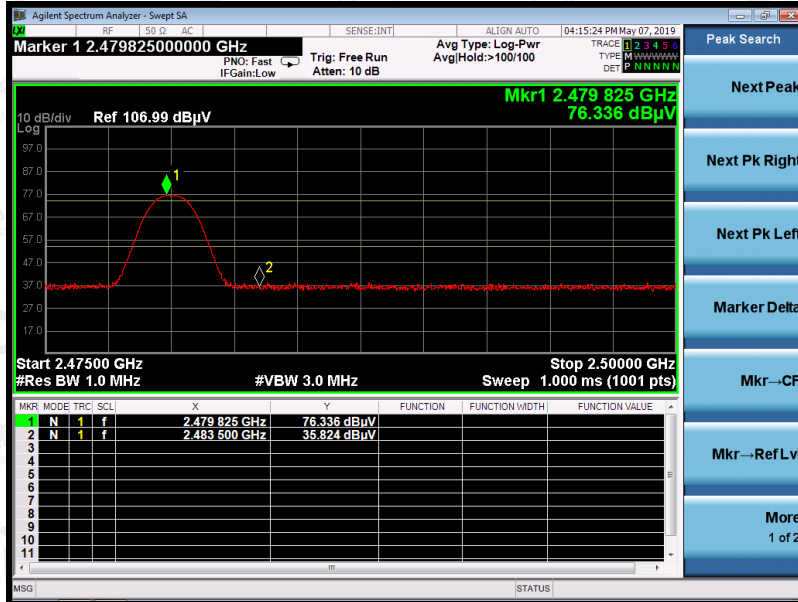
Average Value



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| | | | |
|---------------|-------------------------|---------------------|----------|
| EUT : | IIIP braided headphones | Model Name. : | MP38542 |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 3.7V |
| Test Mode : | Mode 3 | Polarization : | Vertical |

Peak Value



Average Value



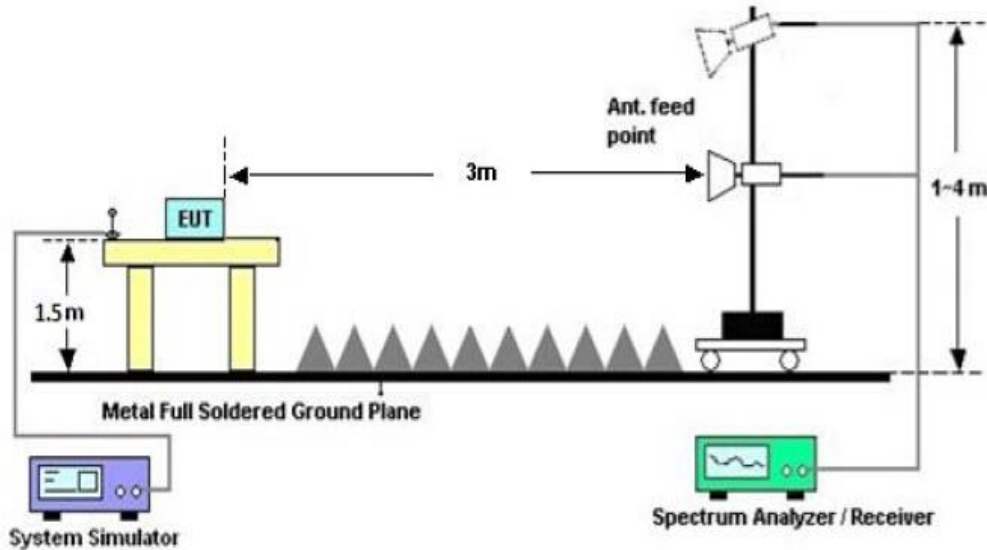
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10. 20DB BANDWIDTH

10.1. MEASUREMENT PROCEDURE

1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
2. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hoping channel
RBW \geq 1% of the 20 dB bandwidth, VBW \geq 3RBW; Sweep = auto; Detector function = peak
3. Set SPA Trace 1 Max hold, then View.

10.2. TEST SET-UP



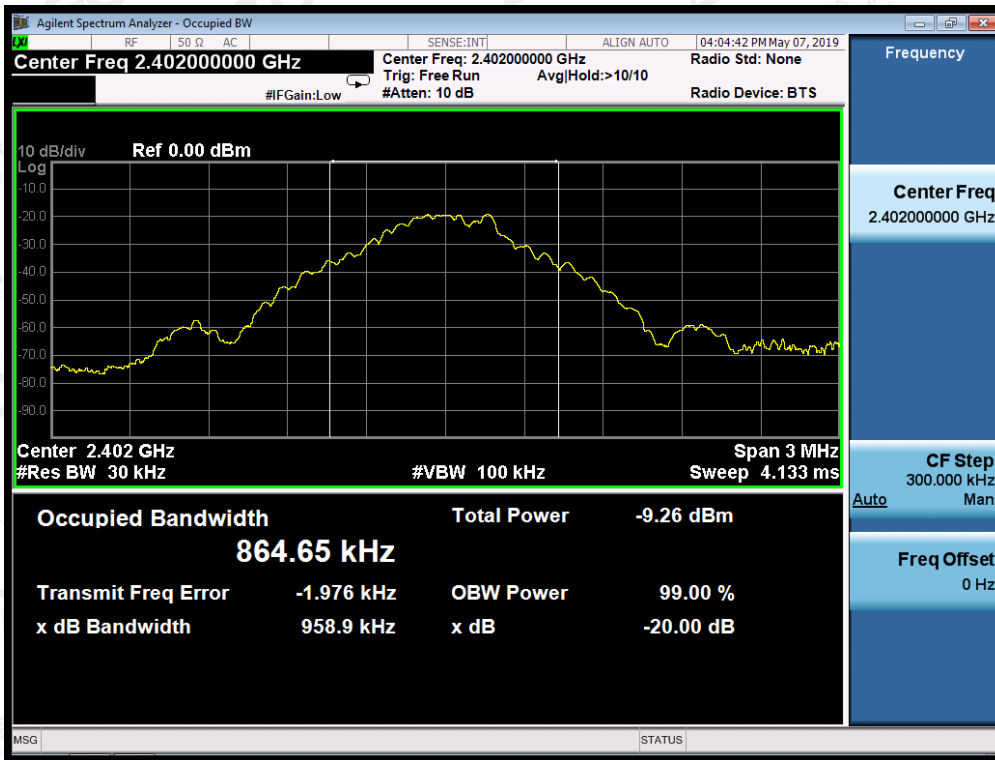
10.3. LIMITS AND MEASUREMENT RESULTS

| | |
|-----------------|-----------------|
| TEST ITEM | 20DB BANDWIDTH |
| TEST MODULATION | GFSK for BR/EDR |

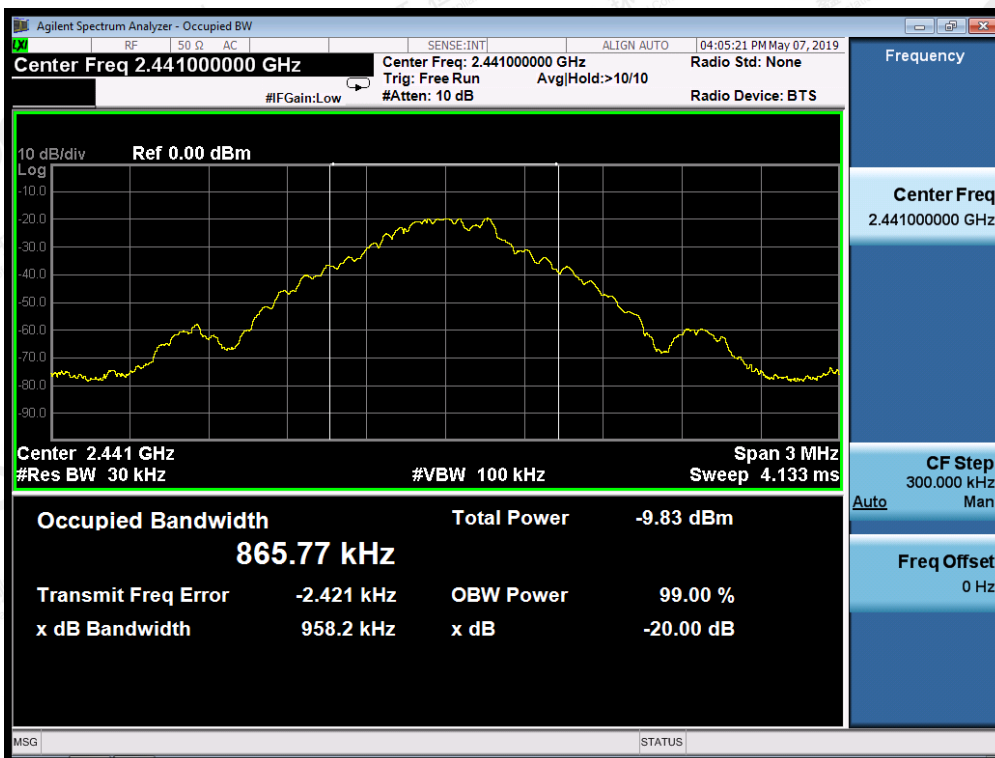
| Test Data (MHz) | | Criteria |
|-----------------|--------|----------|
| Low Channel | 0.9589 | PASS |
| Middle Channel | 0.9582 | PASS |
| High Channel | 0.9574 | PASS |

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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

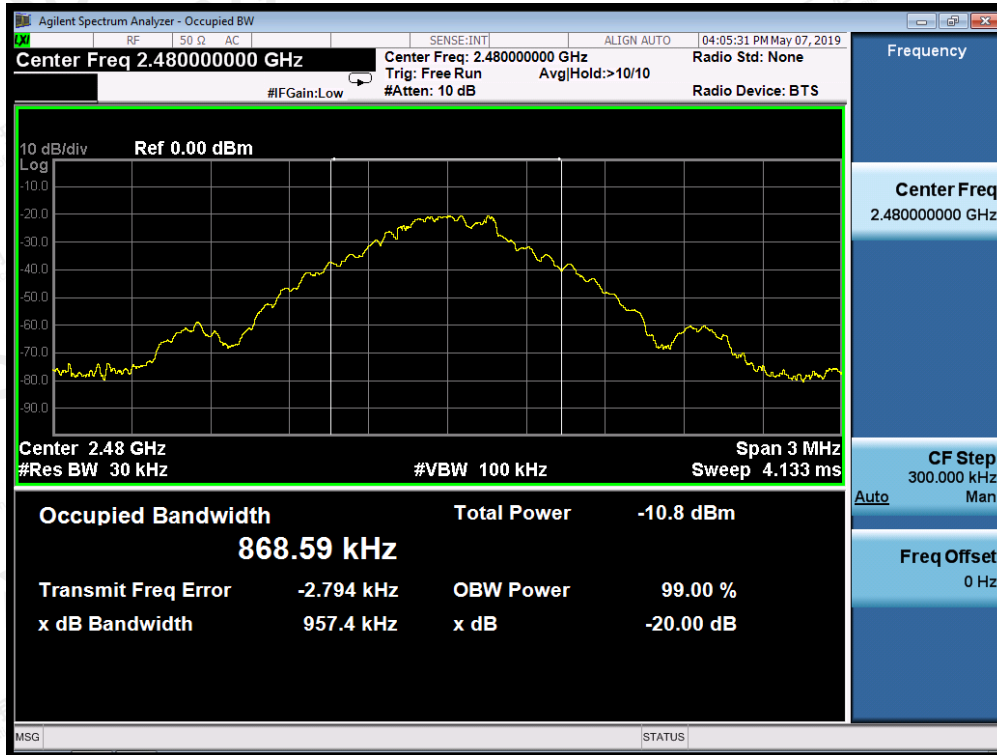


TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

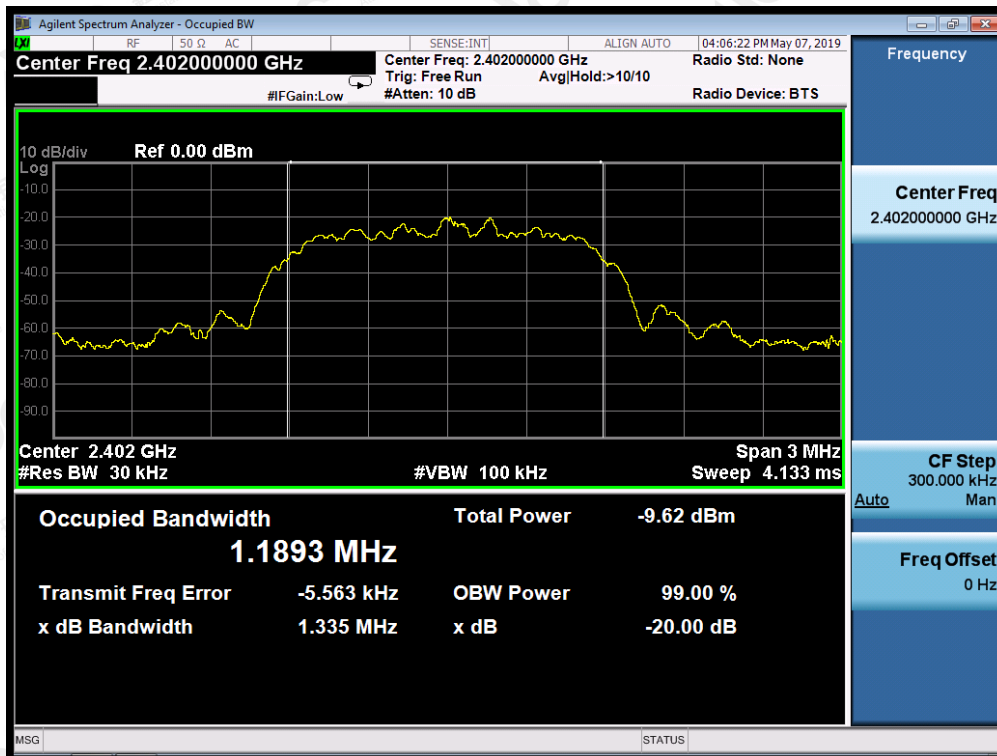


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| | |
|------------------------|---------------------------|
| TEST ITEM | 20DB BANDWIDTH |
| TEST MODULATION | π /4-DQPSK for BR/EDR |

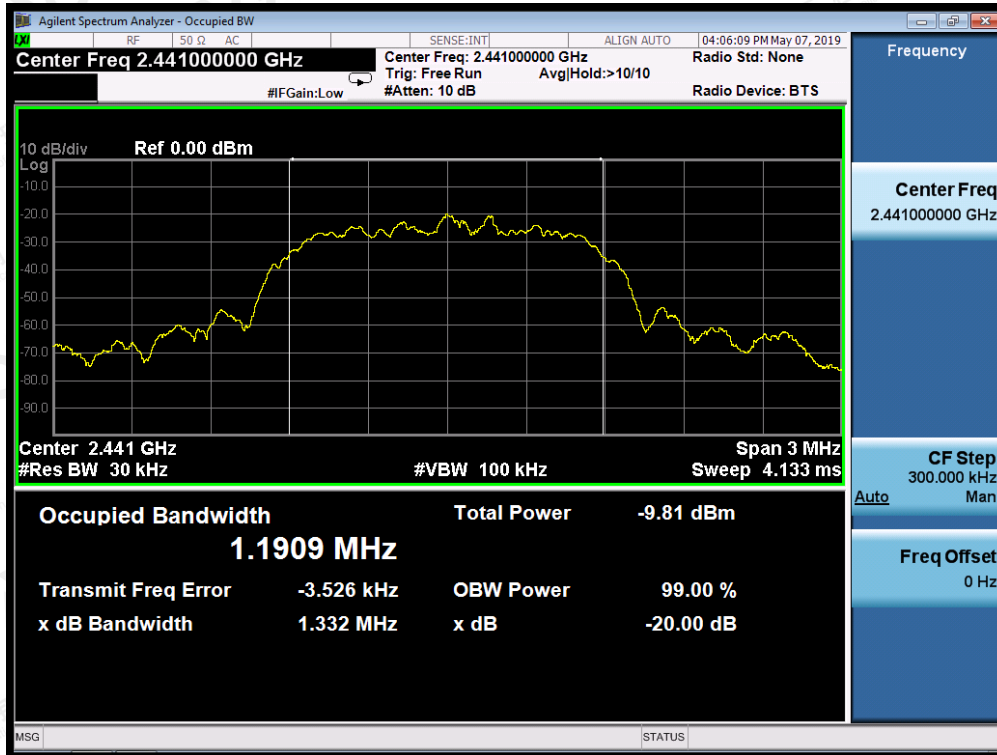
| Test Data (MHz) | Criteria |
|-----------------|----------|
| Low Channel | PASS |
| Middle Channel | PASS |
| High Channel | PASS |

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

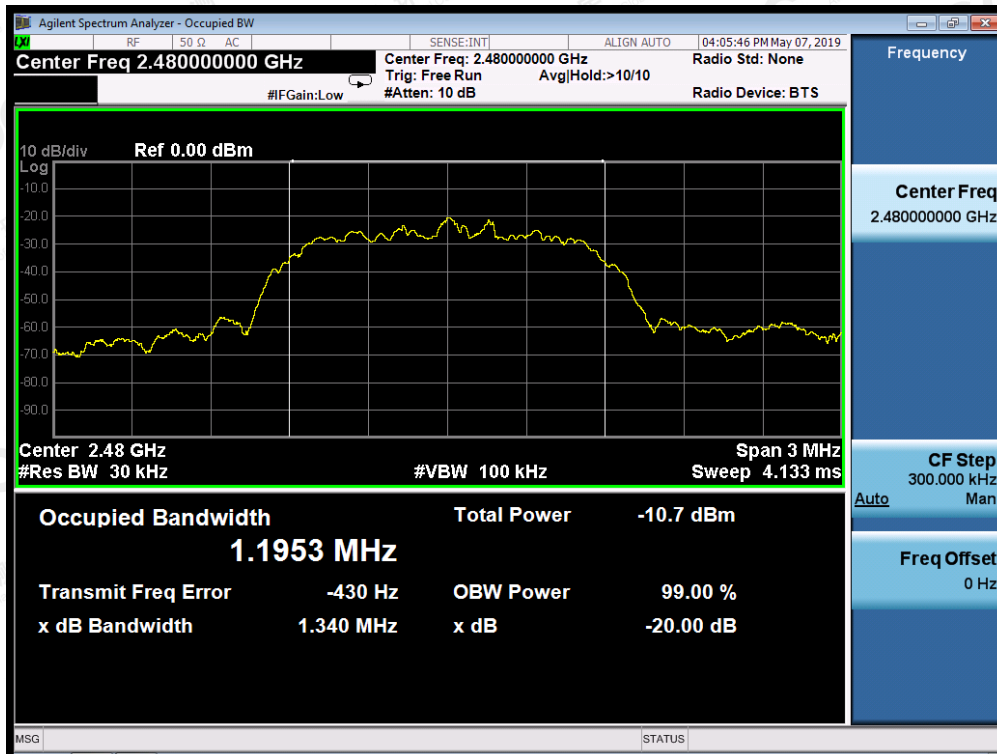


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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

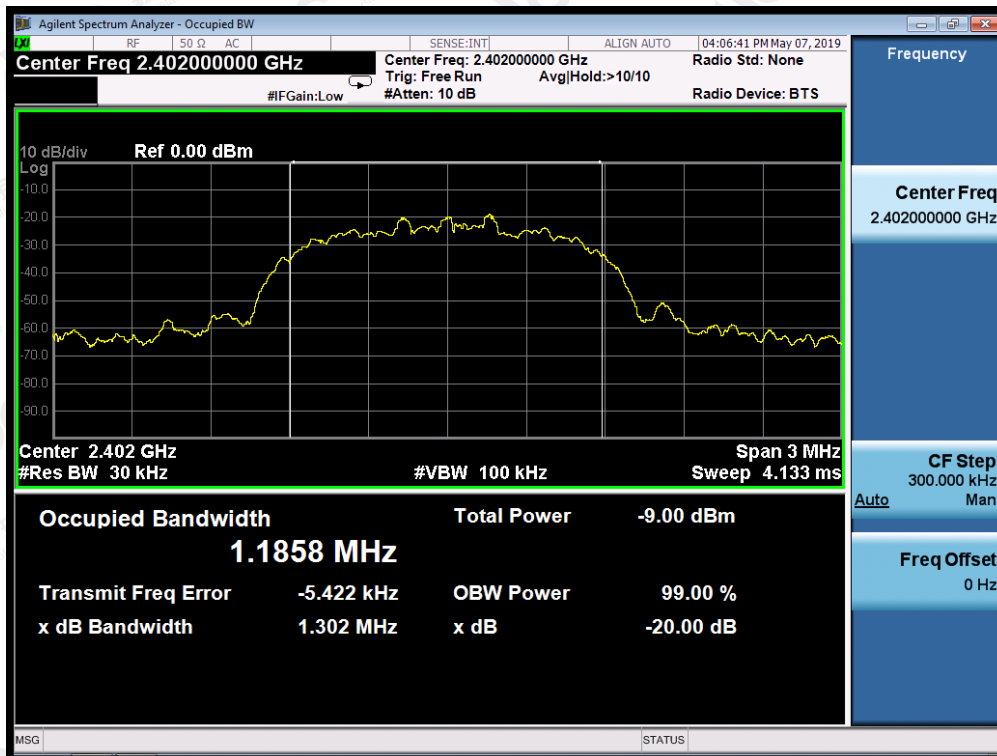


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| | |
|------------------------|------------------|
| TEST ITEM | 20DB BANDWIDTH |
| TEST MODULATION | 8DPSK for BR/EDR |

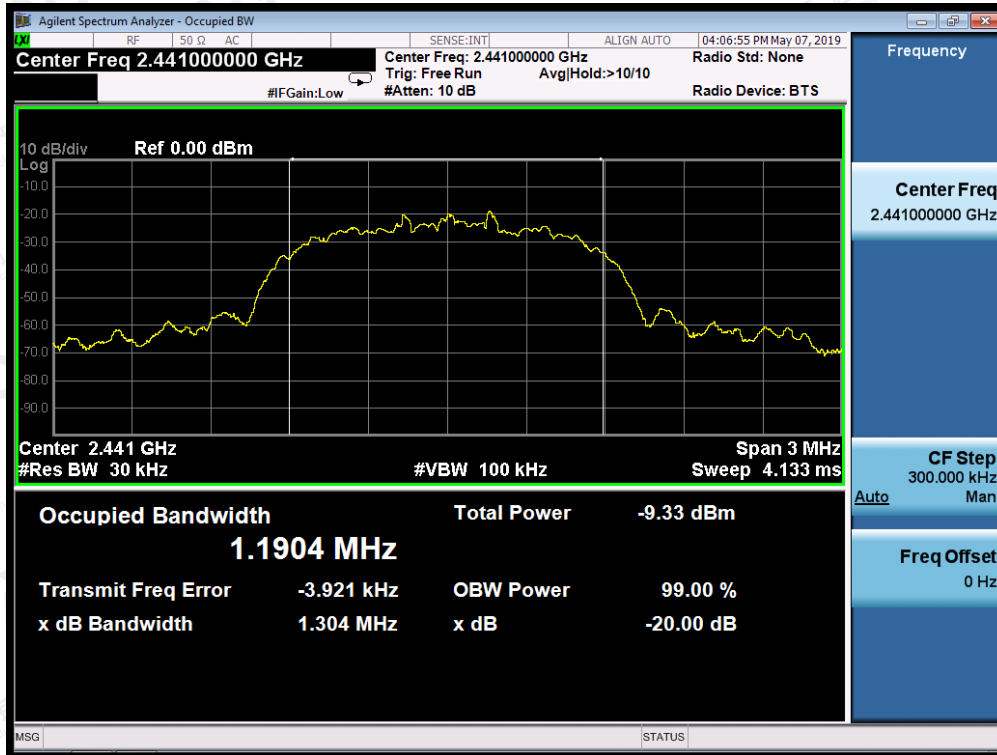
| Test Data (MHz) | | Criteria |
|-----------------|-------|----------|
| Low Channel | 1.302 | PASS |
| Middle Channel | 1.304 | PASS |
| High Channel | 1.308 | PASS |

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

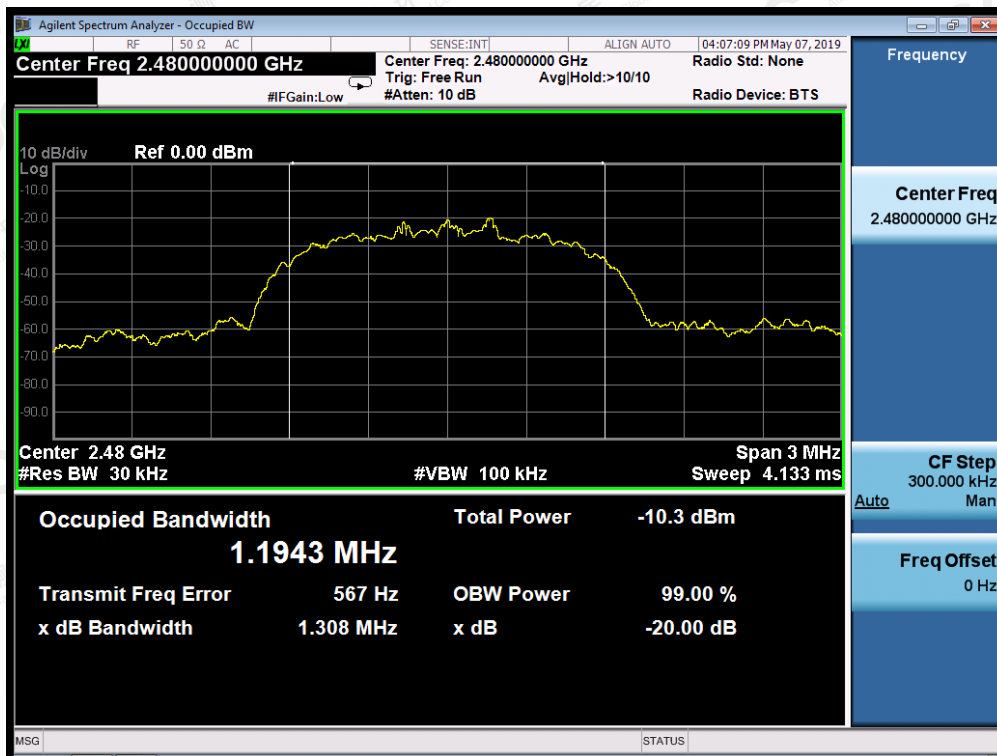


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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

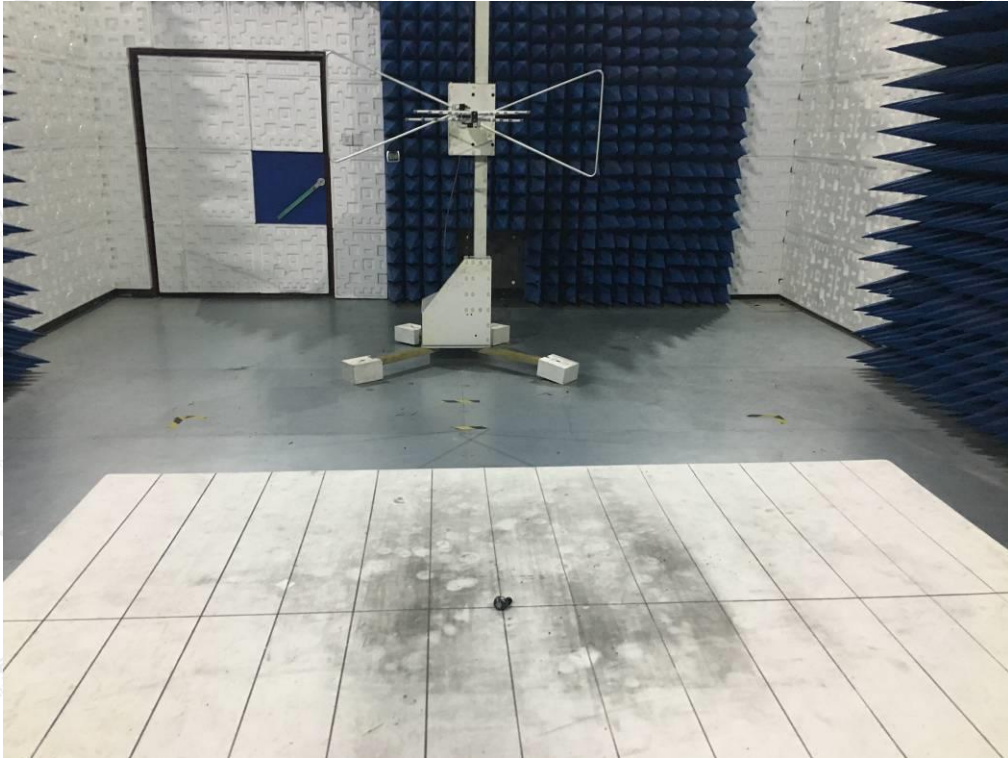


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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APPENDIX A: PHOTOGRAPHS OF TEST SETUP
FCC RADIATED EMISSION TEST SETUP



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APPENDIX B: PHOTOGRAPHS OF EUT
TOTAL VIEW OF EUT



TOP VIEW OF EUT



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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT

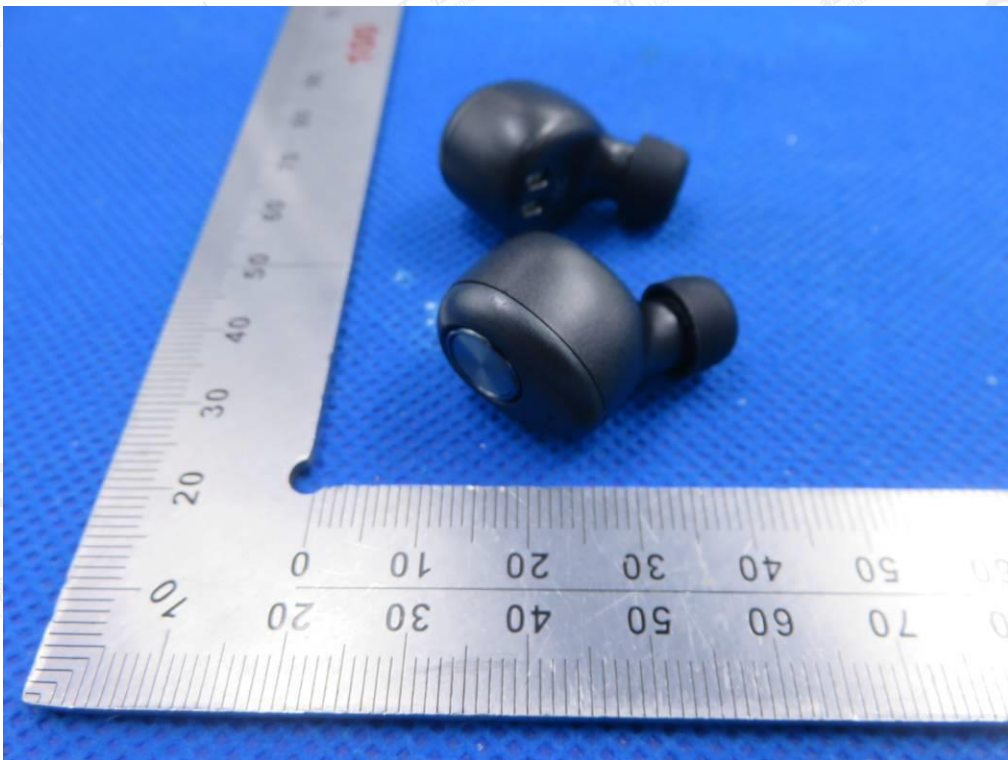


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BACK VIEW OF EUT



LEFT VIEW OF EUT

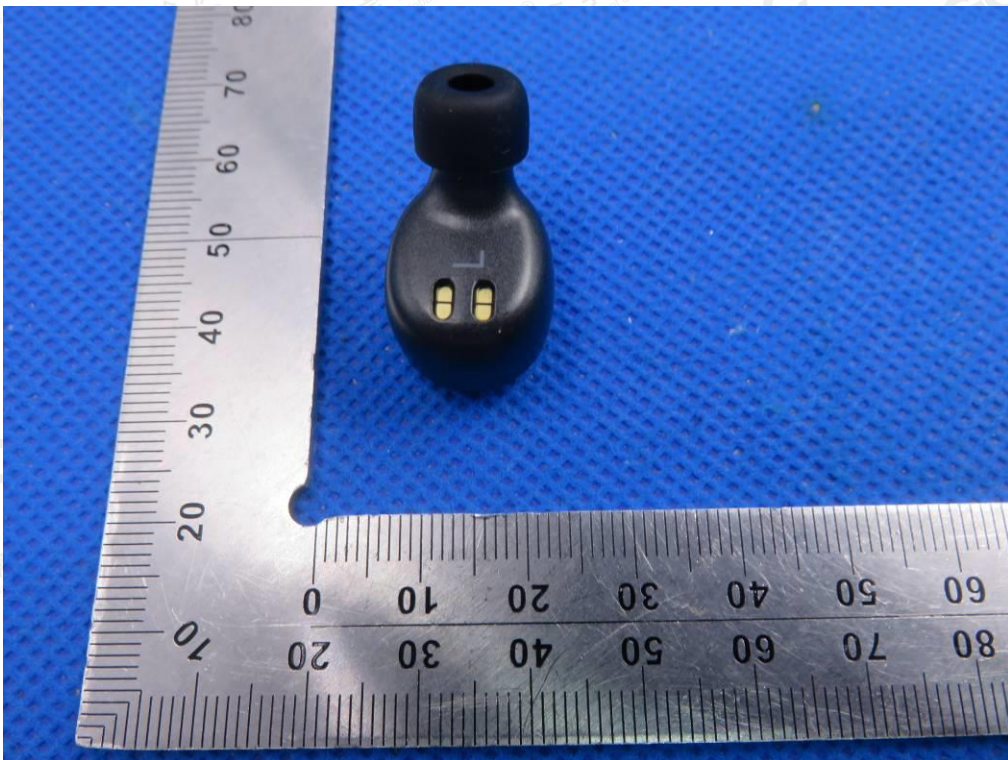


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RIGHT VIEW OF EUT



OPEN VIEW-1 OF EUT(left)

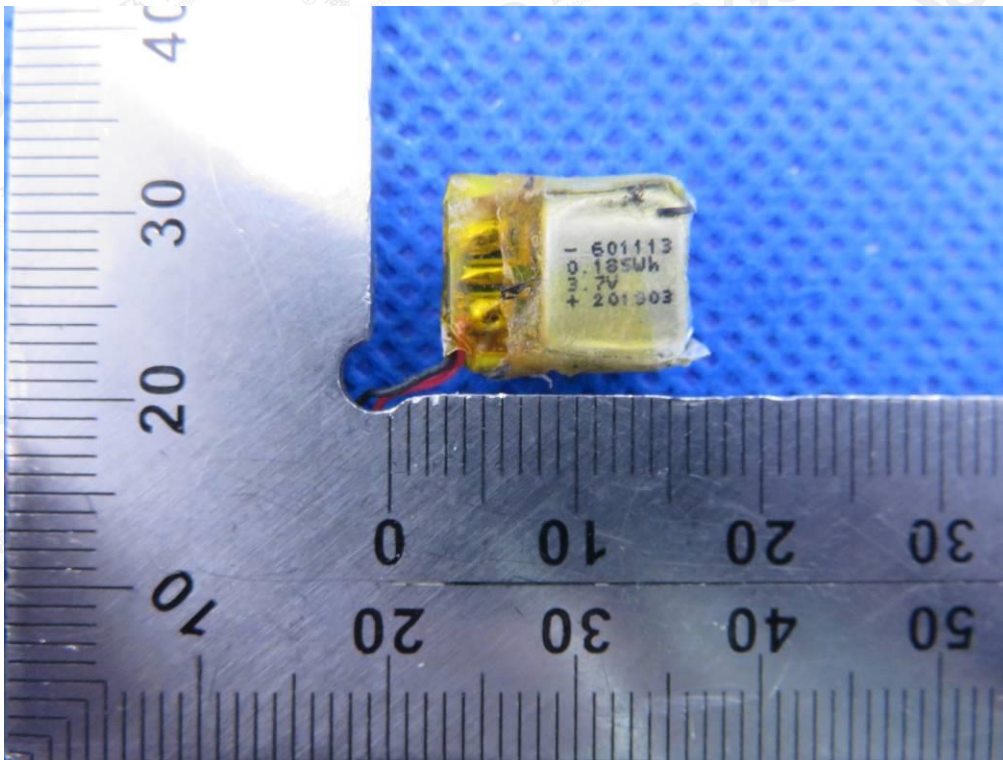


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OPEN VIEW-2 OF EUT

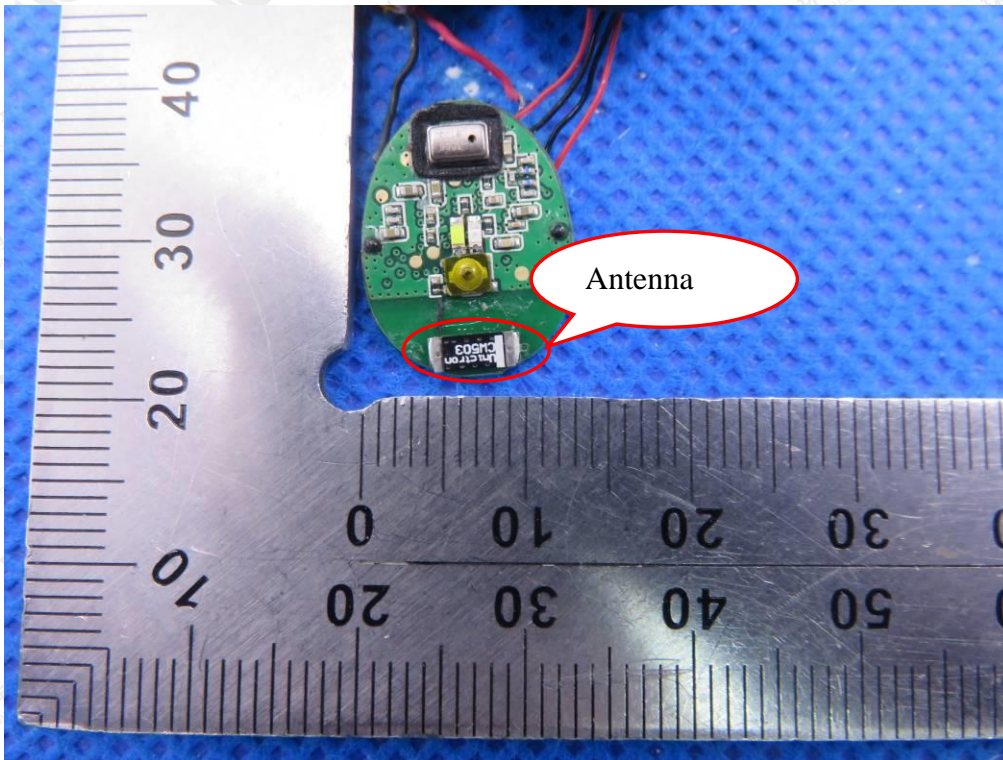


VIEW OF BATTERY

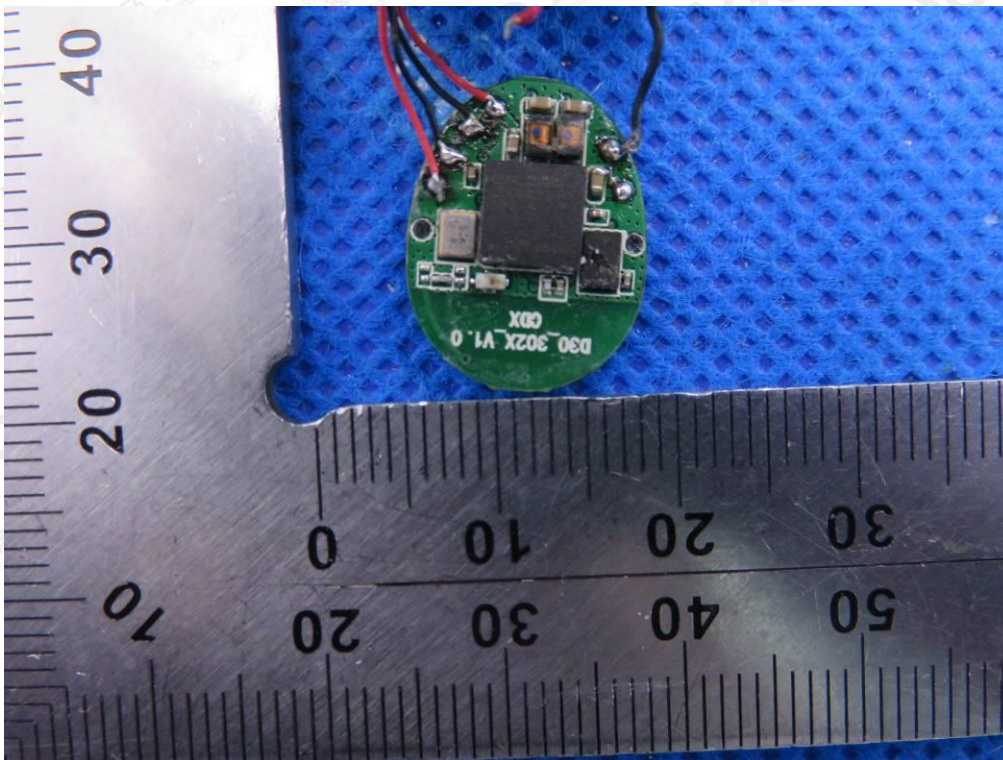


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INTERNAL VIEW-1 OF EUT

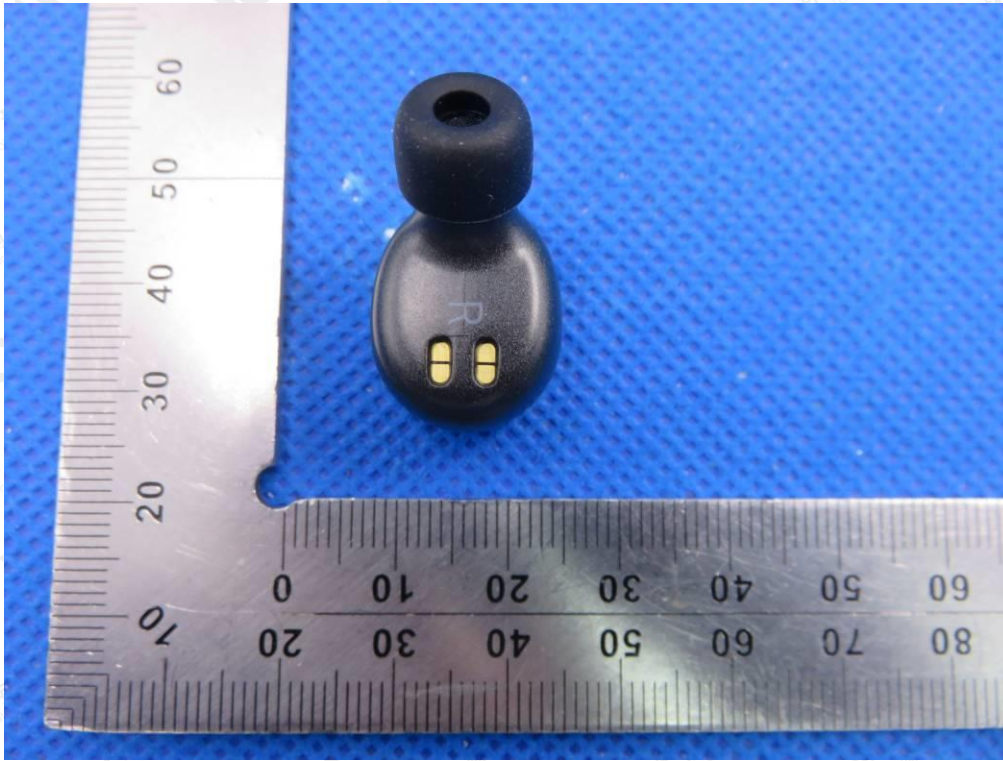


INTERNAL VIEW-2 OF EUT

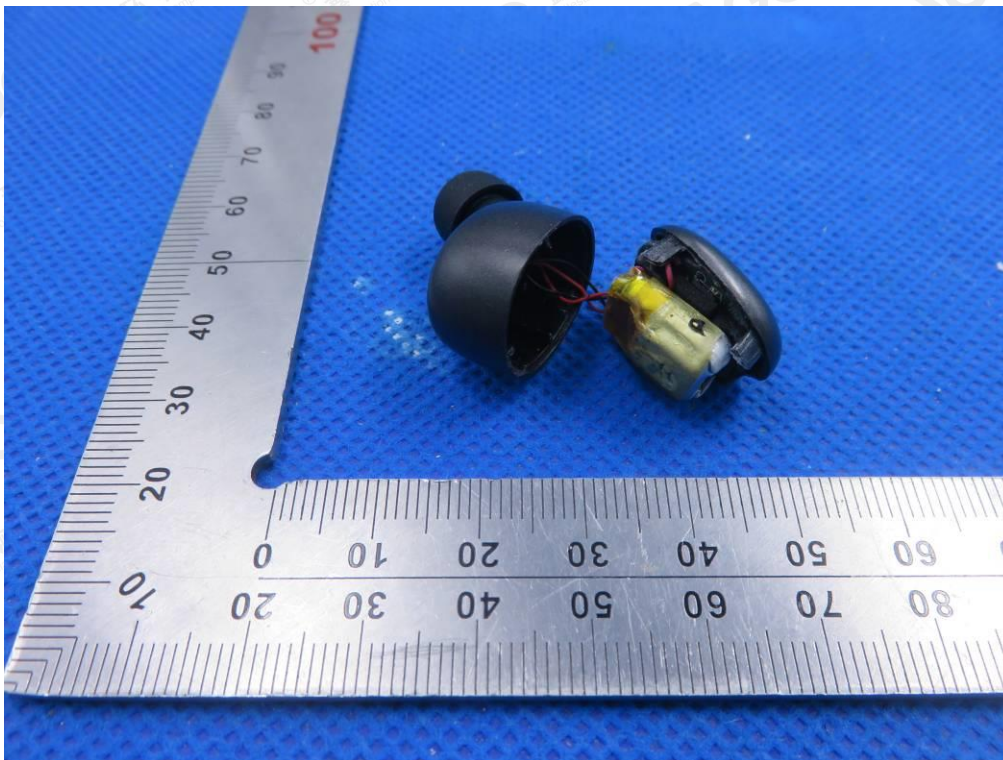


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OPEN VIEW-1 OF EUT(right)

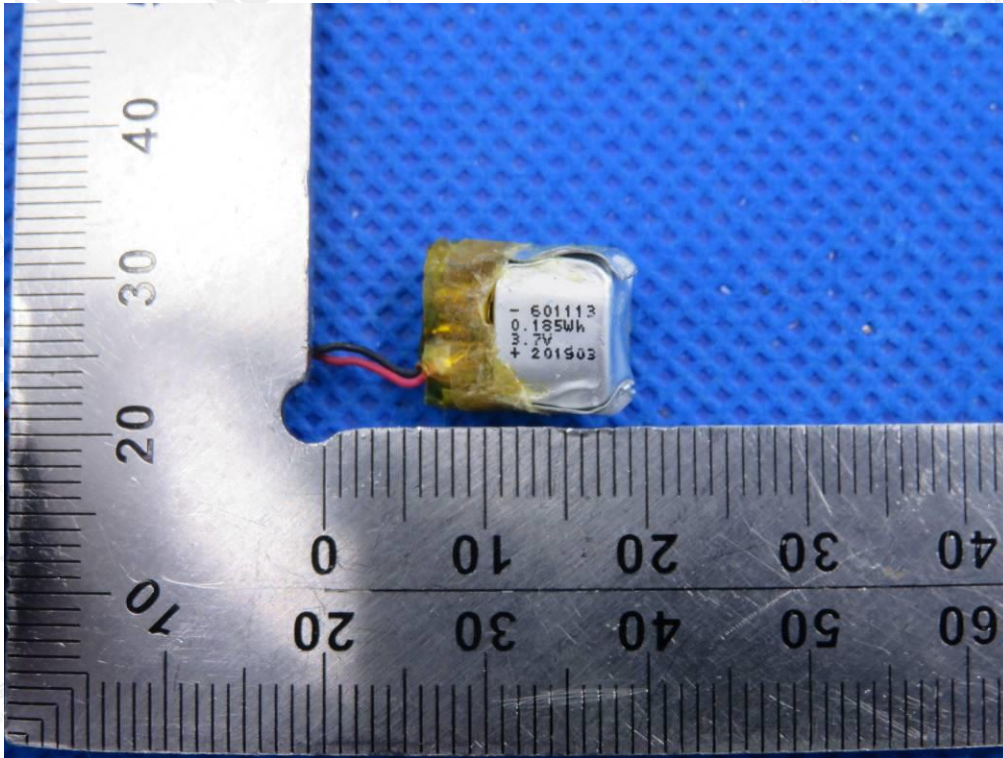


OPEN VIEW-2 OF EUT

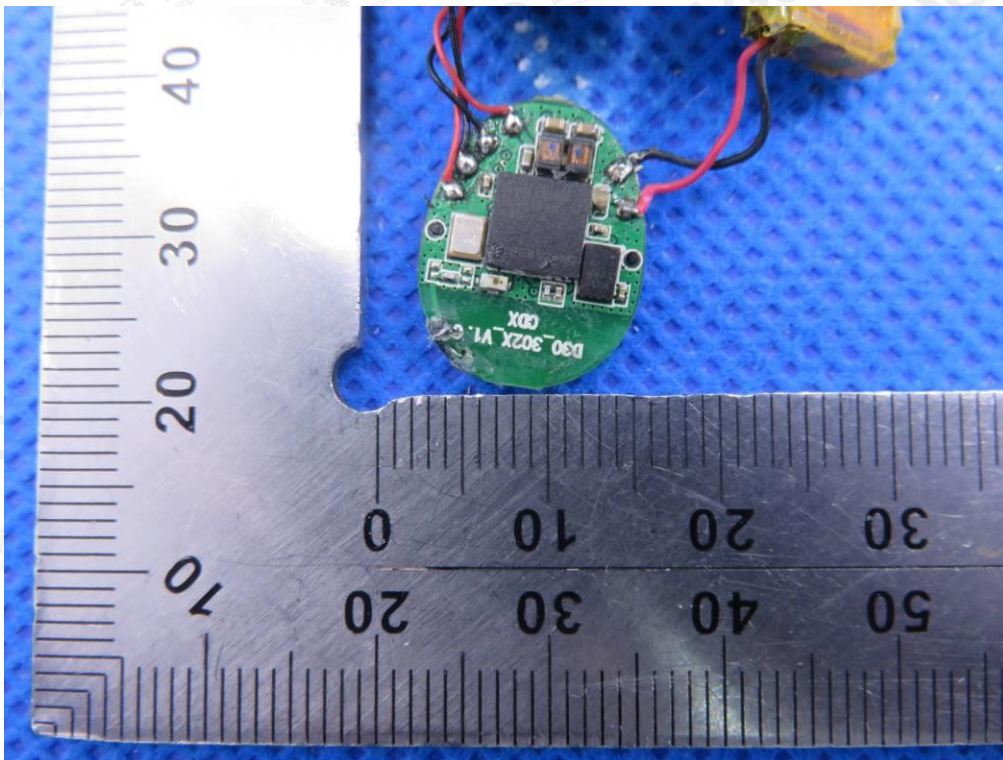


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VIEW OF BATTERY

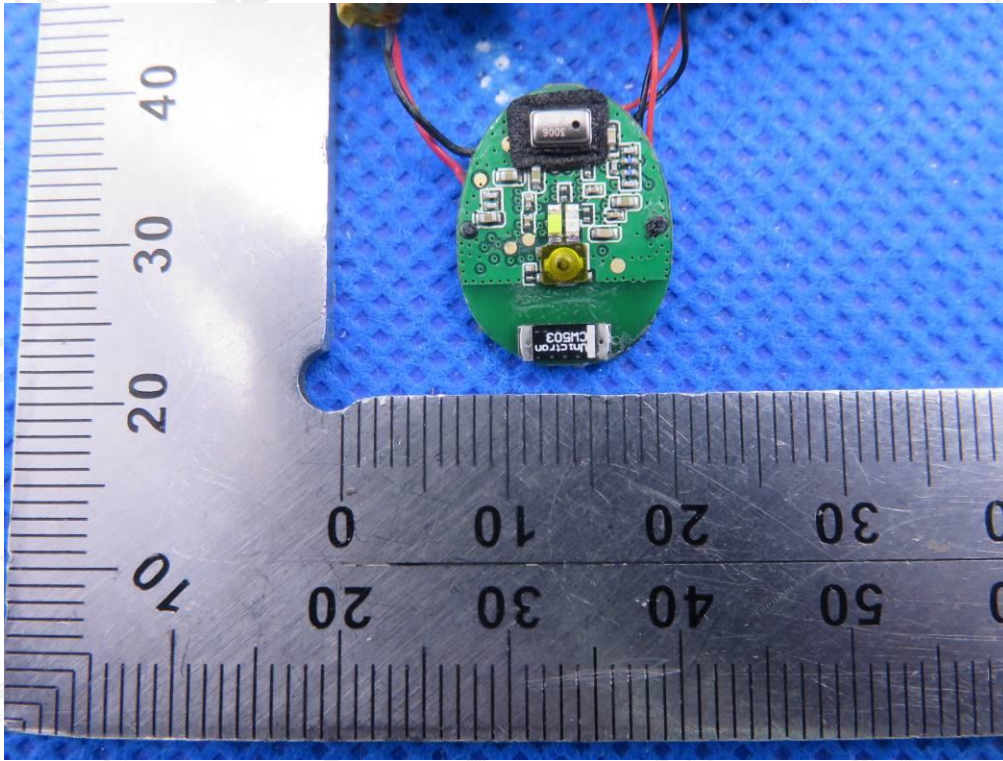


INTERNAL VIEW-1 OF EUT



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INTERNAL VIEW-2 OF EUT



----END OF REPORT----

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