

# Test Report

**Report No.:** MTi210817007-10E2  
**Date of issue:** September 17, 2021  
**Applicant:** Anker Innovations Limited  
**Product name:** Wireless Headphone  
**Model(s):** A3510, A3511  
**FCC ID:** 2AOKB-A3510

**Shenzhen Microtest Co., Ltd.**

**<http://www.mtitest.com>**

## Instructions

1. This test report shall not be partially reproduced without the written consent of the laboratory.
2. The test results in this test report are only responsible for the samples submitted
3. This test report is invalid without the seal and signature of the laboratory.
4. This test report is invalid if transferred, altered, or tampered with in any form without authorization.
5. Any objection to this test report shall be submitted to the laboratory within 15 days from the date of receipt of the report.

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| <b>TEST RESULT CERTIFICATION</b>   |  |
|--|--|
| Applicant's name .....   | Anker Innovations Limited  |
| Address .....  | Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong     |
| Manufacturer's Name .....  | Anker Innovations Limited  |
| Address .....  | Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong     |
| Factory's Name .....   | Senmai Electron Limited  |
| Address .....  | No. 5 Shuiling Road, Zhouwu Industrial Zone, Dongcheng District, Dongguan City |
| <b>Product description</b>   |  |
| Product name .....   | Wireless Headphone   |
| Trademark .....  | ANKER  |
| Model Name .....   | A3510  |
| Serial Model .....   | A3511  |
| Standards .....  | FCC Part 15.247  |
| Test procedure.....  | ANSI C63.10-2013   |
| <b>Date of Test</b>  |  |
| Date (s) of performance of tests.....  | August 26, 2021 ~ September 17, 2021   |
| Test Result .....  | Pass   |
| This device described above has been tested by Shenzhen Microtest Co., Ltd. and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report. |  |

**Testing Engineer**

 : \_\_\_\_\_  \_\_\_\_\_  
 (Danny Xu)

**Technical Manager**

 : \_\_\_\_\_  \_\_\_\_\_  
 (Leon Chen)

**Authorized Signatory**

 : \_\_\_\_\_  \_\_\_\_\_  
 (Tom Xue)

## 1. General Information

### 1.1. Description of EUT

|                              |   |
|------------------------------|---|
| Product name:                | Wireless Headphone  |
| Model name:                  | A3510   |
| Serial model:                | A3511   |
| Difference in series models: | Type A3511 has the same Circuit diagram, PCB layout and all electrical construction with type A3510.<br>For A3511: The ANC function has been cancelled, and the two ANC MICs are cancelled, and the surface paint color is different. |
| Operation frequency:         | 2402-2480MHz  |
| Modulation type:             | GFSK  |
| Bit Rate of transmitter:     | 1 Mbps  |
| Antenna type:                | PCB Antenna   |
| Antenna gain:                | 1.5dBi  |
| Max. output power:           | 3.690 dBm   |
| Hardware version:            | D   |
| Software version:            | V1.5  |
| Power supply:                | DC 3.7V from battery  |
| EUT serial number:           | MTi210817007-10-S0001   |

### 1.2. Operation channel list

| Channel No. | Frequency (MHz) |
|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|
| 0           | 2402            | 10          | 2422            | 20          | 2442            | 30          | 2462            |
| 1           | 2404            | 11          | 2424            | 21          | 2444            | 31          | 2464            |
| 2           | 2406            | 12          | 2426            | 22          | 2446            | 32          | 2466            |
| 3           | 2408            | 13          | 2428            | 23          | 2448            | 33          | 2468            |
| 4           | 2410            | 14          | 2430            | 24          | 2450            | 34          | 2470            |
| 5           | 2412            | 15          | 2432            | 25          | 2452            | 35          | 2472            |
| 6           | 2414            | 16          | 2434            | 26          | 2454            | 36          | 2474            |
| 7           | 2416            | 17          | 2436            | 27          | 2456            | 37          | 2476            |
| 8           | 2418            | 18          | 2438            | 28          | 2458            | 38          | 2478            |
| 9           | 2420            | 19          | 2440            | 29          | 2460            | 39          | 2480            |

**1.3. Test channel list**

| Channel | Channel | Frequency (MHz) |
|---------|---------|-----------------|
| Low     | 00      | 2402            |
| Middle  | 19      | 2440            |
| High    | 39      | 2480            |

**1.4. Ancillary equipment list**

| Equipment | Model | S/N | Manufacturer | Certificate type |
|-----------|-------|-----|--------------|------------------|
| Laptop    | E485  | /   | Lenovo       | /                |

**1.5. Description of Support Units**

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment | Brand | Model/Type No. | Series No. | Note |
|------|-----------|-------|----------------|------------|------|
| 1    | /         | /     | /              | /          |      |

Note:

- (1)The support equipment was authorized by Declaration of Confirmation.
- (2)For detachable type I/O cable should be specified the length in cm in 『Length』 column.

## 2. Summary of Test Results

Test procedures according to the technical standards:

| No. | Standard Section                                       | Test Item                          | Result | Remark |
|-----|--|------------------------------------|--------|--------|
| 1   | 15.203   | Antenna Requirement                | Pass   |        |
| 2   | 15.247 (b)   | Peak Output Power                  | Pass   |        |
| 3   | 15.207   | Conducted Emission                 | Pass   |        |
| 4   | 15.247 (d) & 15.209                                    | Radiated Spurious Emission         | Pass   |        |
| 5   | 15.247 (e)   | Power Spectral Density             | Pass   |        |
| 6   | 15.247 (a)(2)  | 6dB Bandwidth                      | Pass   |        |
| 7   | 558074 D01 15.247<br>Meas Guidance<br>v05r02 Chapter 6 | Duty Cycle                         | Pass   |        |
| 8   | 15.205   | Band Edge Emission                 | Pass   |        |
| 9   | 15.247(d)  | Spurious RF Conducted<br>Emissions | Pass   |        |

### 3. Test Facilities and Accreditations

#### 3.1. Test laboratory

|                       |  |
|-----------------------|--|
| Test Laboratory       | Shenzhen Microtest Co., Ltd  |
| Location              | 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China. |
| FCC Registration No.: | 448573   |

#### 3.2. Environmental conditions

|                      |              |
|----------------------|--------------|
| Temperature:         | 15°C~35°C    |
| Humidity             | 20%~75%      |
| Atmospheric pressure | 98kPa~101kPa |

#### 3.3. 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 %

| No. | Item                          | Uncertainty             |
|-----|-------------------------------|-------------------------|
| 1   | Conducted Emission Test       | $\pm 1.38\text{dB}$     |
| 2   | RF power, conducted           | $\pm 0.16\text{dB}$     |
| 3   | Spurious emissions, conducted | $\pm 0.21\text{dB}$     |
| 4   | All emissions, radiated(<1G)  | $\pm 4.68\text{dB}$     |
| 5   | All emissions, radiated(>1G)  | $\pm 4.89\text{dB}$     |
| 6   | Temperature                   | $\pm 0.5^\circ\text{C}$ |
| 7   | Humidity                      | $\pm 2\%$               |

#### 3.4. Test software

| Software Name                  | Manufacturer                  | Model    | Version     |
|--------------------------------|-------------------------------|----------|-------------|
| Bluetooth and WiFi Test System | Shenzhen JS tonskend co., ltd | JS1120-3 | 2.5.77.0418 |

#### 4. Equipment list

| Equipment No. | Equipment Name                       | Manufacturer    | Model       | Serial No.     | Calibration date | Due date   |
|---------------|--------------------------------------|-----------------|-------------|----------------|------------------|------------|
| MTI-E043      | EMI Test Receiver                    | Rohde&schwarz   | ESCI7       | 101166         | 2021/06/02       | 2022/06/01 |
| MTI-E044      | TRILOG Broadband Antenna             | schwarzbeck     | VULB 9163   | 9163-1338      | 2021/05/30       | 2023/05/29 |
| MTI-E047      | Amplifier                            | Hewlett-Packard | 8447F       | 3113A06150     | 2021/06/02       | 2022/06/01 |
| MTI-E089      | ESG Vector Signal Generator          | Agilent         | N5182A      | MY49060455     | 2021/06/02       | 2022/06/01 |
| MTI-E058      | ESG Series Analog Ssignal Generator  | Agilent         | E4421B      | GB40051240     | 2021/06/02       | 2022/06/01 |
| MTI-E062      | PXA Signal Analyzer                  | Agilent         | N9030A      | MY51350296     | 2021/06/02       | 2022/06/01 |
| MTI-E066      | MXA Signal Analyzer                  | Agilent         | N9020A      | MY50143483     | 2021/06/02       | 2022/06/01 |
| MTI-E078      | Synthesized Sweeper                  | Agilent         | 83752A      | 3610A01957     | 2021/06/02       | 2022/06/01 |
| MTI-E079      | DC Power Supply                      | Agilent         | E3632A      | MY40027695     | 2021/06/02       | 2022/06/01 |
| MTI-E045      | Double Ridged Broadband Horn Antenna | schwarzbeck     | BBHA 9120D  | 9120D-2278     | 2021/05/30       | 2023/05/29 |
| MTI-E021      | EMI Test Receiver                    | Rohde&schwarz   | ESCS30      | 100210         | 2021/06/02       | 2022/06/01 |
| MTI-E022      | Pulse Limiter                        | Schwarzbeck     | VSTD 9561-F | 00679          | 2021/06/02       | 2022/06/01 |
| MTI-E023      | Artificial mains network             | Schwarzbeck     | NSLK 8127   | NSLK 8127 #841 | 2021/06/02       | 2022/06/01 |
| MTI-E046      | Active Loop Antenna                  | Schwarzbeck     | FMZB 1519B  | 00044          | 2021/05/30       | 2023/05/29 |
| MTI-E048      | Amplifier                            | Agilent         | 8449B       | 3008A02400     | 2021/06/02       | 2022/06/01 |
| MTI-E072      | Thermometer Clock Humidity Monitor   | -               | HTC-1       | /              | 2021/06/02       | 2022/06/01 |

Note: the calibration interval of the above test instruments is 12 or 24 months and the calibrations are traceable to international system unit (SI).

## 5. Test Result

### 5.1. Antenna requirement

#### 5.1.1. Standard Requirement

15.203 requirement: For intentional device, according to 15.203: 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

#### 5.1.2. EUT Antenna

The EUT antenna is PCB antenna (1.5dBi). It comply with the standard requirement.

## 5.2. Peak Output Power Test

### 5.2.1. Limit

| FCC Part15 Subpart C |                   |                 |                          |
|----------------------|-------------------|-----------------|--------------------------|
| Section              | Test Item         | Limit           | Frequency Range<br>(MHz) |
| 15.247(b)(3)         | Peak output power | 1 watt or 30dBm | 2400-2483.5              |

### 5.2.2. Test setup



### 5.2.3. Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting:  
 RBW=1MHz, VBW=3MHz, Detector=Peak (If 20dB BW ≤ 1 MHz)  
 RBW=3MHz, VBW=8MHz, Detector=Peak (If 20dB BW > 1 MHz)
- (3) The EUT was set to continuously transmitting in the max power during the test.

### 5.2.4. Test Results

|            |                           |               |                      |
|------------|---------------------------|---------------|----------------------|
| EUT:       | Wireless Headphone        | Model Name:   | A3510                |
| Pressure:  | 1012 hPa                  | Test Voltage: | DC 3.7V from battery |
| Test Mode: | TX Mode /CH00, CH19, CH39 |               |                      |

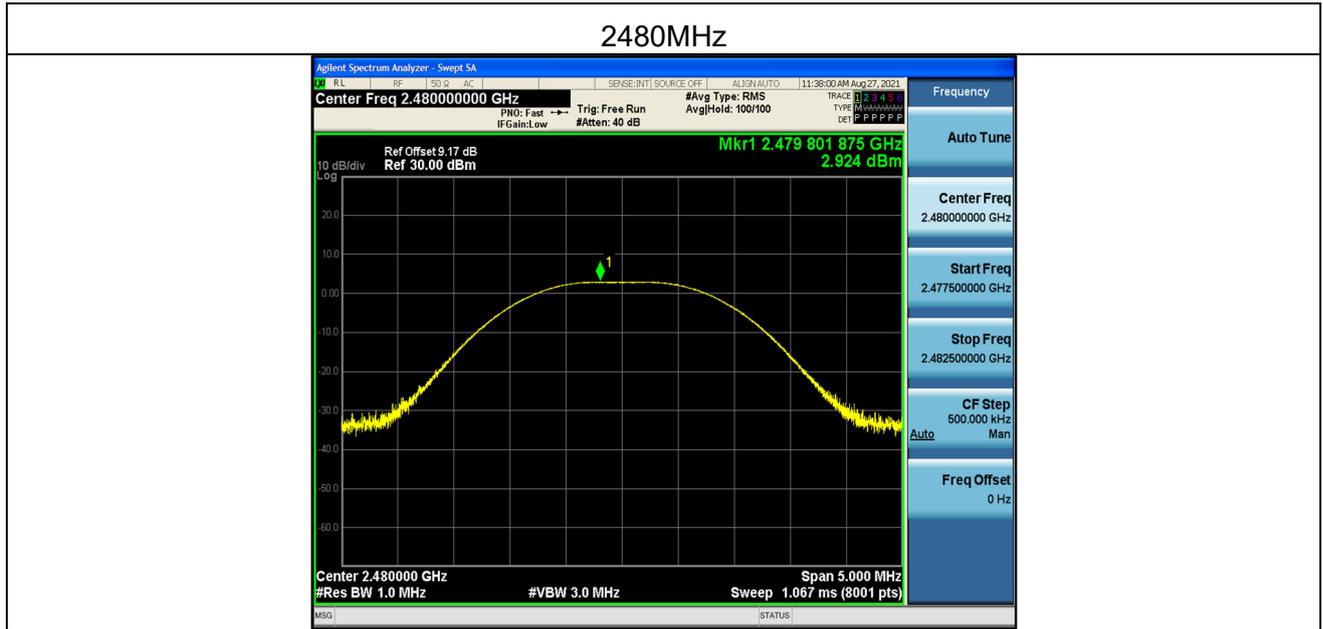
| Test Channel | Frequency | Maximum Peak Output Power | Limit |
|--------------|-----------|---------------------------|-------|
|              | (MHz)     | (dBm)                     | dBm   |
| CH00         | 2402      | 3.081                     | 30    |
| CH19         | 2440      | 3.690                     | 30    |
| CH39         | 2480      | 2.924                     | 30    |

## 2402MHz



## 2440MHz





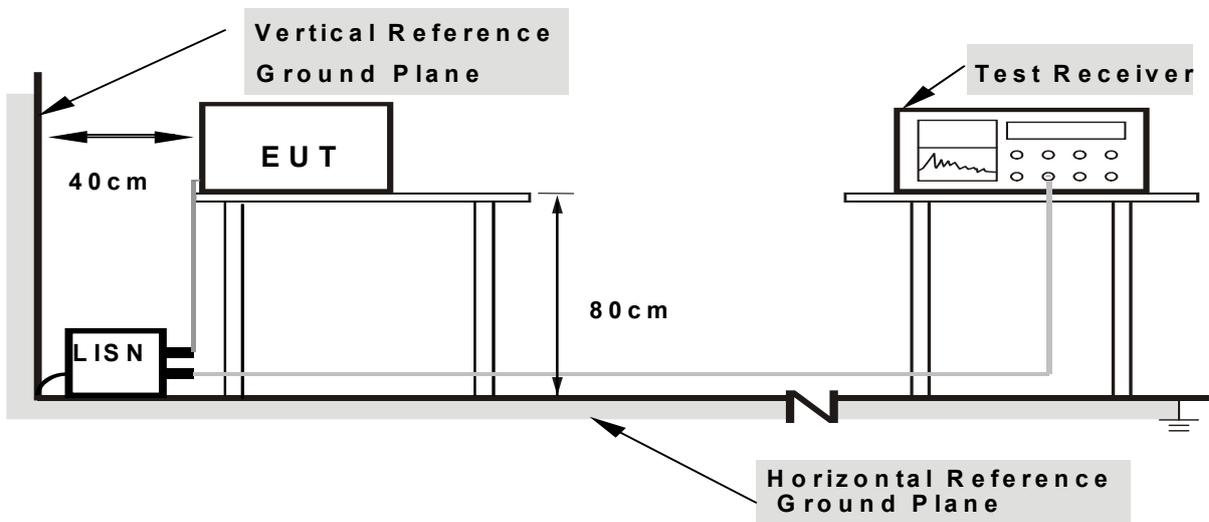
**5.3. Conducted emission**

**5.3.1.Limits**

| FREQUENCY (MHz) | Class B (dBuV) |           |
|-----------------|----------------|-----------|
|                 | Quasi-peak     | Average   |
| 0.15 -0.5       | 66 - 56 *      | 56 - 46 * |
| 0.50 -5.0       | 56.00          | 46.00     |
| 5.0 -30.0       | 60.00          | 50.00     |

Note: \*Decreases with the logarithm of the frequency.

**5.3.2.Test Setup**



**Note: 1.Support units were connected to second LISN.**

**2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes**

### 5.3.3. Test Procedure

#### a. EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

#### b. The following table is the setting of the receiver

| Receiver Parameters | Setting  |
|---------------------|----------|
| Attenuation         | 10 dB    |
| Start Frequency     | 0.15 MHz |
| Stop Frequency      | 30 MHz   |
| IF Bandwidth        | 9 kHz    |

- c. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- d. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- e. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- f. LISN at least 80 cm from nearest part of EUT chassis.

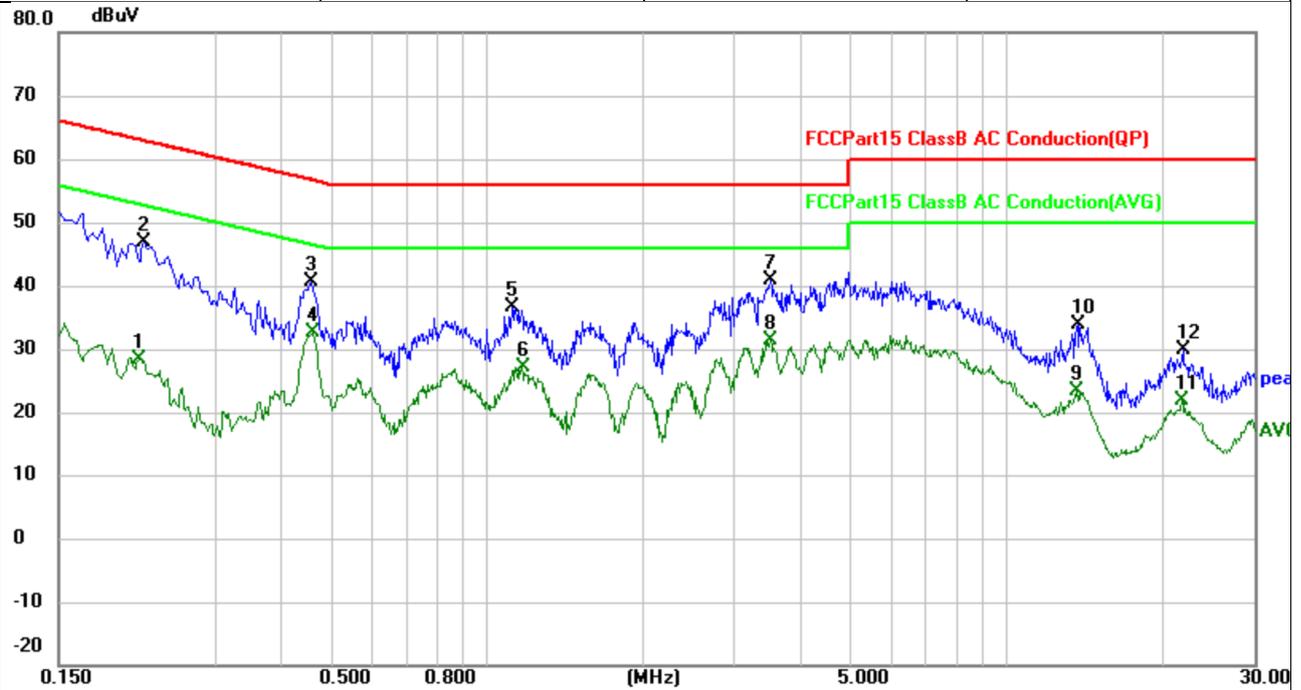
For the actual test configuration, please refer to the related Item – EUT Test Photos.

### 5.3.4. Test Results

Note:

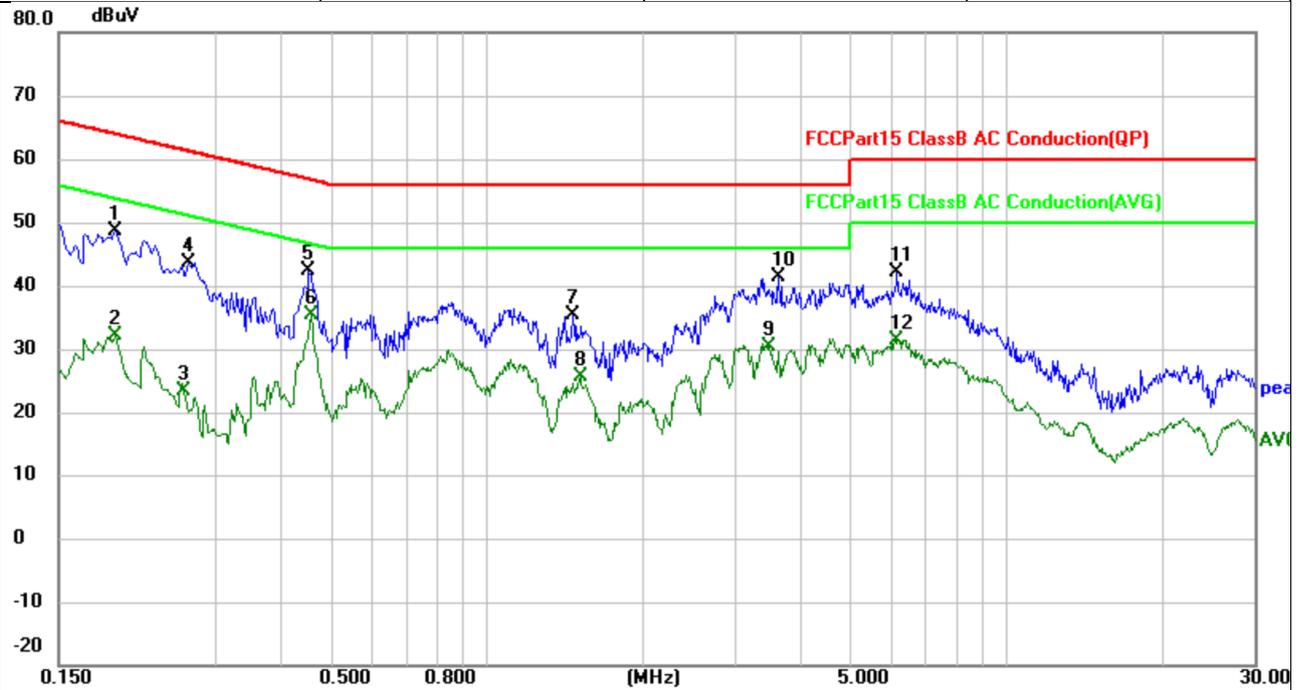
1. The three modulated high, medium and low channels have been tested. The report only shows the worst mode. The worst mode is GFSK CH39.
2. Emission Level = Reading Level + Factor, Margin = Emission Level - Limit, Factor = LISN modulus + Cable Loss

|               |                                     |             |       |
|---------------|-------------------------------------|-------------|-------|
| EUT:          | Wireless Headphone                  | Model Name: | A3510 |
| Pressure:     | 1010hPa                             | Phase:      | L     |
| Test Voltage: | DC 5V from notebook<br>AC 120V/60Hz | Test Mode:  | TX    |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|
| 1   |     | 0.2139       | 17.44                    | 10.98                   | 28.42                    | 53.05         | -24.63     | AVG      |
| 2   |     | 0.2179       | 35.90                    | 10.98                   | 46.88                    | 62.90         | -16.02     | QP       |
| 3   |     | 0.4580       | 29.58                    | 11.04                   | 40.62                    | 56.73         | -16.11     | QP       |
| 4   | *   | 0.4620       | 21.59                    | 11.04                   | 32.63                    | 46.66         | -14.03     | AVG      |
| 5   |     | 1.1220       | 23.11                    | 13.54                   | 36.65                    | 56.00         | -19.35     | QP       |
| 6   |     | 1.1656       | 13.45                    | 13.63                   | 27.08                    | 46.00         | -18.92     | AVG      |
| 7   |     | 3.5100       | 29.40                    | 11.41                   | 40.81                    | 56.00         | -15.19     | QP       |
| 8   |     | 3.5100       | 20.02                    | 11.41                   | 31.43                    | 46.00         | -14.57     | AVG      |
| 9   |     | 13.6900      | 11.60                    | 11.68                   | 23.28                    | 50.00         | -26.72     | AVG      |
| 10  |     | 13.7659      | 22.08                    | 11.68                   | 33.76                    | 60.00         | -26.24     | QP       |
| 11  |     | 21.8260      | 10.12                    | 11.84                   | 21.96                    | 50.00         | -28.04     | AVG      |
| 12  |     | 21.8658      | 18.10                    | 11.83                   | 29.93                    | 60.00         | -30.07     | QP       |

|               |                                     |             |       |
|---------------|-------------------------------------|-------------|-------|
| EUT:          | Wireless Headphone                  | Model Name: | A3510 |
| Pressure:     | 1010hPa                             | Phase:      | N     |
| Test Voltage: | DC 5V from notebook<br>AC 120V/60Hz | Test Mode:  | TX    |



| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measurement | Limit | Over   | Detector |
|-----|-----|--------|---------------|----------------|-------------|-------|--------|----------|
|     |     | MHz    | dBuV          | dB             | dBuV        | dBuV  | dB     |          |
| 1   |     | 0.1922 | 37.81         | 10.92          | 48.73       | 63.94 | -15.21 | QP       |
| 2   |     | 0.1922 | 21.10         | 10.92          | 32.02       | 53.94 | -21.92 | AVG      |
| 3   |     | 0.2600 | 12.57         | 10.93          | 23.50       | 51.43 | -27.93 | AVG      |
| 4   |     | 0.2660 | 32.78         | 10.92          | 43.70       | 61.24 | -17.54 | QP       |
| 5   |     | 0.4540 | 31.43         | 10.90          | 42.33       | 56.80 | -14.47 | QP       |
| 6   | *   | 0.4580 | 24.40         | 10.90          | 35.30       | 46.73 | -11.43 | AVG      |
| 7   |     | 1.4657 | 21.09         | 14.23          | 35.32       | 56.00 | -20.68 | QP       |
| 8   |     | 1.5180 | 11.18         | 14.34          | 25.52       | 46.00 | -20.48 | AVG      |
| 9   |     | 3.4980 | 18.96         | 11.39          | 30.35       | 46.00 | -15.65 | AVG      |
| 10  |     | 3.6419 | 30.06         | 11.39          | 41.45       | 56.00 | -14.55 | QP       |
| 11  |     | 6.1859 | 30.75         | 11.41          | 42.16       | 60.00 | -17.84 | QP       |
| 12  |     | 6.1859 | 20.07         | 11.41          | 31.48       | 50.00 | -18.52 | AVG      |

#### 5.4. Radiated spurious emission

##### 5.4.1. Limits

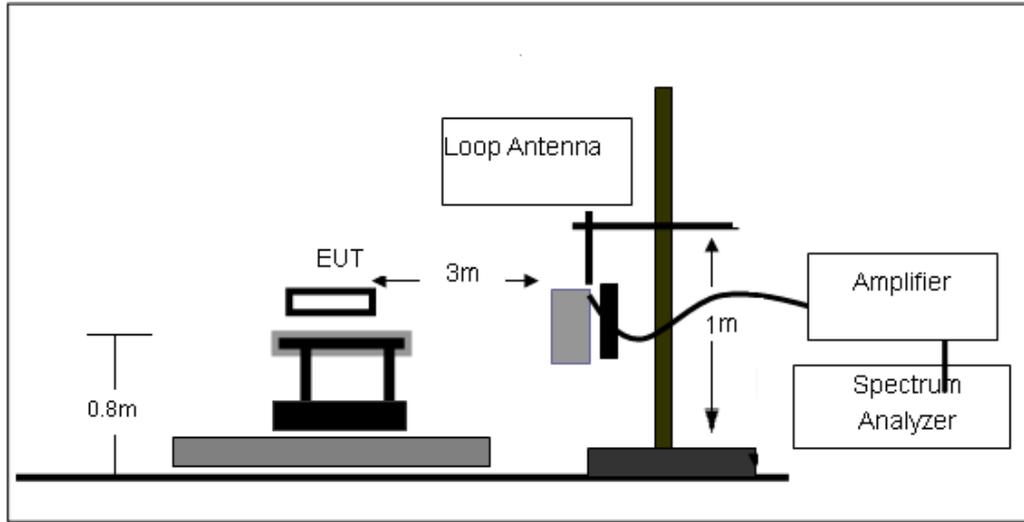
| Frequency (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-----------------|-----------------------------------|-------------------------------|
| 0.009~0.490     | 2400/F(kHz)                       | 300                           |
| 0.490~1.705     | 24000/F(kHz)                      | 30                            |
| 1.705~30.0      | 30                                | 30                            |
| 30~88           | 100                               | 3                             |
| 88~216          | 150                               | 3                             |
| 216~960         | 200                               | 3                             |
| Above 960       | 500                               | 3                             |

| Spectrum Parameter                    | Setting  |
|---------------------------------------|--|
| Attenuation                           | Auto   |
| Start Frequency                       | 1000 MHz   |
| Stop Frequency                        | 10th carrier harmonic                            |
| RB / VB (emission in restricted band) | 1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average |

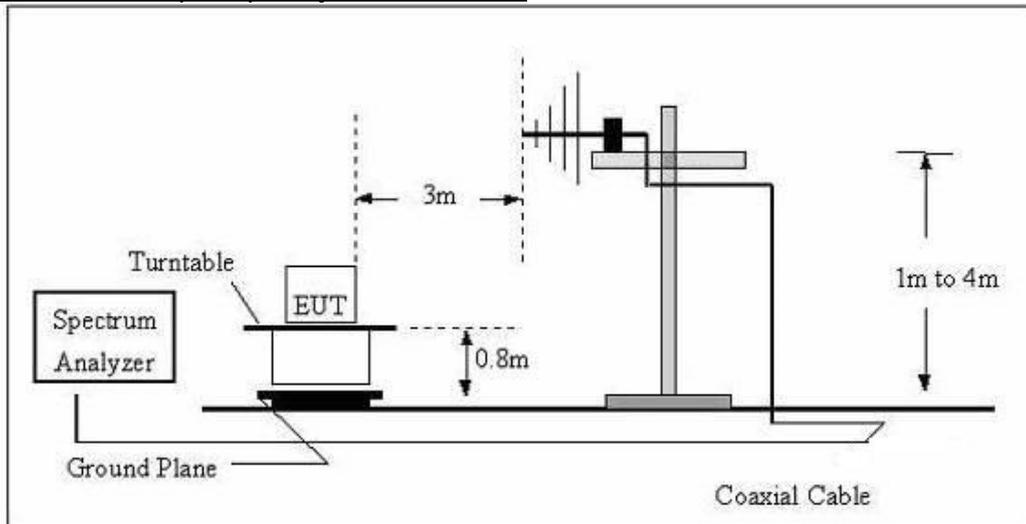
| Receiver Parameter     | Setting                          |
|------------------------|----------------------------------|
| Attenuation            | Auto                             |
| Start ~ Stop Frequency | 9kHz~150kHz / RB 200Hz for QP    |
| Start ~ Stop Frequency | 150kHz~30MHz / RB 9kHz for QP    |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP |

**5.4.2. Test Setup**

Radiated emission test-up frequency below 30MHz



Radiated emission test-up frequency 30MHz~1GHz



Radiated emission test-up frequency above 1GHz

