



# TEST REPORT

*For*

**Applicant : Shenzhen Mango Acoustics Co., Ltd**

**Address : 810,Haixiang Square, 1052Nanhai Blvd, Shenzhen**

**Product Name : Wireless headphone**

**PICKov TS816B SW, PICKov TS816B MS,  
Model Name : PICKov TS816B XX (XX could be any letters a-z,  
on behalf of A different color)**

**Brand Name : Dioo**

**FCC Number : FCC ID: 2AKGZ-PICKOVTS816B**

**Report No. : MTE/CEC/S16112411**

**Date of Issue : Nov.21, 2016**

**Issued by : Most Technology Service Co., Limited .**

**Address : No.5, 2nd Langshan Road, North District, Hi-tech Industrial  
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## 1. PRODUCT INFORMATION

|                                  |                                                                                                                                                                   |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Equipment Under Test:</b>     | Wireless headphone                                                                                                                                                |
| <b>Brand Name:</b>               | Dioo                                                                                                                                                              |
| <b>Model Number:</b>             | PICKov TS816B SW                                                                                                                                                  |
| <b>FCC Number:</b>               | FCC ID: 2AKGZ-PICKOVTS816B                                                                                                                                        |
| <b>Applicant:</b>                | Shenzhen Mango Acoustics Co., Ltd<br>810,Haixiang Square, 1052Nanhai Blvd, Shenzhen                                                                               |
| <b>Manufacturer:</b>             | Metaline Industrial Limited<br>B2 Buliding, Huaxing Industrial park, Hongshi Road, Buxin Group, Yantian Village, Fenggang Town, Dongguan City, Guangdong Province |
| <b>Technical Standards:</b>      | 47 CFR Part 15 Subpart C (Part 15.247 of the FCC Rules)                                                                                                           |
| <b>File Number:</b>              | MTE/CEC/S16112411                                                                                                                                                 |
| <b>Date of test:</b>             | Nov.07-17, 2016                                                                                                                                                   |
| <b>Deviation:</b>                | None                                                                                                                                                              |
| <b>Condition of Test Sample:</b> | Normal                                                                                                                                                            |
| <b>Test Result:</b>              | PASS                                                                                                                                                              |

The above equipment was tested by Most Technology Service Co., Ltd. for compliance with the requirements set forth in FCC rules and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Prepared by (+ signature):

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Nov.07-17, 2016

Review by (+ signature):

*John*  
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Nov.18, 2016

Approved by (+ signature):

*Yvette*  
Yvette Zhou (Manager)

Nov.18, 2016

## 2. GENERAL INFORMATION

### 2.1 Product Information

|                                             |                                                                                                 |
|---------------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Product</b>                              | Wireless headphone                                                                              |
| <b>Brand Name</b>                           | Dioo                                                                                            |
| <b>Model Number</b>                         | PICKov TS816B SW                                                                                |
| <b>Series Model Name:</b>                   | PICKov TS816B MS, PICKov TS816B XX(XX could be any letters a-z, on behalf of A different color) |
| <b>Series Model Difference description:</b> | Only different in model name.                                                                   |
| <b>Power Supply</b>                         | 1.DC 5 V by USB Port<br>2.DC 3.7 V by Battery                                                   |
| <b>Frequency Range</b>                      | 2402MHz -2480MHz                                                                                |
| <b>Modulation Type:</b>                     | GFSK                                                                                            |
| <b>Channel Number</b>                       | 40                                                                                              |
| <b>Antenna Type</b>                         | Internal PCB Antenna, Antenna Gain :0dBi                                                        |
| <b>Temperature Range-</b>                   | -20°C ~ +60°C                                                                                   |

**NOTE:**

1. For a more detailed features description about the EUT, please refer to User's Manual.

### 2.2 Objective

The objective of the report is to perform tests according to FCC Part 15 Subpart C for the EUT FCC ID Certification:

| No. | Identity       | Document Title                                                                   |
|-----|----------------|----------------------------------------------------------------------------------|
| 1   | 47 CFR Part 15 | Radio Frequency Devices                                                          |
| 2   | DA00-705       | Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems. |

## 2.3 Test Standards and Results

| No. | Section              | Test Items                                 | Result | Date of Test |
|-----|----------------------|--------------------------------------------|--------|--------------|
| 2   | FCC 15.203           | Antenna Requirement                        | PASS   | 2016-11-16   |
| 3   | FCC15.207 (a)        | AC Power Line Conducted Emission           | PASS   | 2016-11-10   |
| 3   | FCC15.209, 15.247(d) | Radiated Emission                          | PASS   | 2016-11-10   |
| 4   | FCC15.247(b)(3)      | Conducted Peak Output Power                | PASS   | 2016-11-15   |
| 5   | FCC15.247(a)(2)      | 6dB Emission Bandwidth                     | PASS   | 2016-11-15   |
| 6   | FCC15.247(e)         | Power Spectral Density                     | PASS   | 2016-11-15   |
| 7   | FCC15.247(d)         | Band Edge and Conducted Spurious Emissions | PASS   | 2016-11-15   |
| 8   | FCC15.247(d)         | Restricted Frequency Bands                 | PASS   | 2016-11-10   |

*Note:* 1. The test result judgment is decided by the limit of measurement standard  
 2. The information of measurement uncertainty is available upon the customer's request.

## 2.4 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 15-35°C
- Humidity: 30-60 %
- Atmospheric pressure: 86-106 kPa

### 3. TEST METHODOLOGY

#### 3.1 TEST FACILITY

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Site:</b>    | Most Technology Service Co., Limited                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Location:</b>     | No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description:</b>  | There is one 3m semi-anechoic an area test sites and two line conducted labs for final test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.10:2013 and CISPR 16 requirements.<br>The FCC Registration Number is <b>490827</b> . The IC Registration Number is <b>7103A-1</b> .                                                                                                                                                                                                                                                                                                                                       |
| <b>Site Filing:</b>  | The site description is on file with the Federal Communications Commission, 7435 Oakland Mills Road, Columbia, MD 21046.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Instrument</b>    | All measuring equipment is in accord with ANSI C63.10:2013 and CISPR 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Tolerance:</b>    | requirements that meet industry regulatory agency and accreditation agency requirement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Ground Plane:</b> | Two conductive reference ground planes were used during the Line Conducted Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire area between the EUT and the antenna. |

#### 3.2 GENERAL TEST PROCEDURES

##### Radiated Emissions

The EUT is placed on a turn table, which is 1.5 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.5 of ANSI C63.10:2013.

##### Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2 of ANSI C63.10:2013, Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

## 4. SETUP OF EQUIPMENT UNDER TEST

### 4.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

### 4.2 SUPPORT EQUIPMENT

| Device Type | Manufacturer | Model Name | Serial No. | Data Cable | Power Cable |
|-------------|--------------|------------|------------|------------|-------------|
| ---         | ---          | ---        | ---        | ---        | ---         |

*Remark:*

*All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.*

### 4.3 TEST EQUIPMENT LIST

**Instrumentation:** The following list contains equipment used at Most for testing. The equipment conforms to the CISPR 16-1 / ANSI C63.2 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 10 kHz to 1.0 GHz or above.

| No. | Equipment                      | Manufacturer     | Model No.  | S/N        | Calibration date | Calibration Interval |
|-----|--------------------------------|------------------|------------|------------|------------------|----------------------|
| 1   | Test Receiver                  | Rohde & Schwarz  | ESCI       | 100492     | 2016/03/10       | 1 Year               |
| 2   | Spectrum Analyzer              | Agilent          | E7405A     | US44210471 | 2016/03/14       | 1 Year               |
| 3   | L.I.S.N.                       | Rohde & Schwarz  | ENV216     | 100093     | 2016/03/10       | 1 Year               |
| 4   | Coaxial Switch                 | Anritsu Corp     | MP59B      | 6200283933 | 2016/03/07       | 1 Year               |
| 5   | Terminator                     | Hubersuhner      | 50Ω        | No.1       | 2016/03/07       | 1 Year               |
| 6   | RF Cable                       | SchwarzBeck      | N/A        | No.1       | 2016/03/07       | 1 Year               |
| 7   | Test Receiver                  | Rohde & Schwarz  | ESPI       | 101202     | 2016/03/10       | 1 Year               |
| 8   | Bilog Antenna                  | Sunol            | JB3        | A121206    | 2016/03/14       | 1 Year               |
| 9   | Horn Antenna                   | SCHWARZBECK      | BBHA9120D  | 756        | 2016/03/14       | 1 Year               |
| 10  | Horn Antenna                   | Penn Engineering | 9034       | 8376       | 2016/03/14       | 1 Year               |
| 11  | Cable                          | Resenberger      | N/A        | NO.1       | 2016/03/07       | 1 Year               |
| 12  | Cable                          | SchwarzBeck      | N/A        | NO.2       | 2016/03/07       | 1 Year               |
| 13  | Cable                          | SchwarzBeck      | N/A        | NO.3       | 2016/03/07       | 1 Year               |
| 14  | Single Phase Power Line Filter | DuoJi            | FNF 202B30 | N/A        | 2016/03/07       | 1 Year               |
| 15  | Test Receiver                  | Rohde & Schwarz  | ESCI       | 100492     | 2016/03/10       | 1 Year               |
| 16  | Loop antenna                   | ARA              | PLA-1030/B | 1039       | 2016/03/14       | 1 Year               |

**NOTE:** Equipments listed above have been calibrated and are in the period of validation.

## 5. 47 CFR Part 15 C Requirements

### 5.1 ANTENNA REQUIREMENT

#### 5.1.1 Applicable Standard

According to FCC § 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. 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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

#### 5.1.2 Evaluation Criteria

(a) Antenna must be permanently attached to the unit.

(b) Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, Installer shall be responsible for verifying that the correct antenna is employed with the unit.

#### 5.1.3 Result: Compliance.

The EUT has one integral antenna arrangement, which was permanently attached and the antenna gain is 0 dBi, fulfill the requirement of this section.

## 5.2 AC Power Line Conducted Emission

### 5.2.1 Requirement

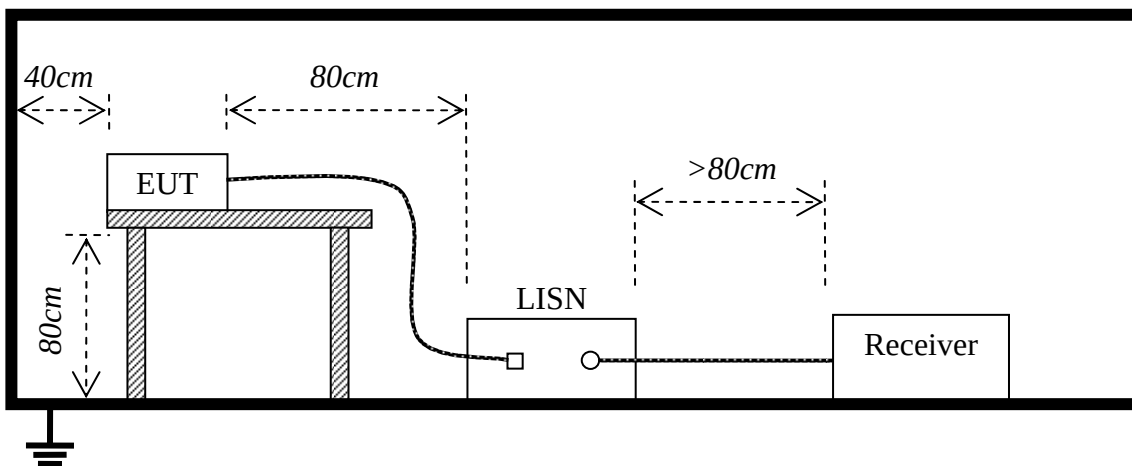
A radio apparatus that is designed to be connected to the public utility (AC) power line shall ensure that the radio frequency voltage, which is conducted back onto the AC power line on any frequency or frequencies within the and 150 kHz-30 MHz, shall not exceed the limits in the following table:

| Frequency     | Maximum RF Line Voltage |                |
|---------------|-------------------------|----------------|
|               | Q.P.( dBuV)             | Average( dBuV) |
| 150kHz-500kHz | 66-56                   | 56-46          |
| 500kHz-5MHz   | 56                      | 46             |
| 5MHz-30MHz    | 60                      | 50             |

**\*\*Note:** 1. the lower limit shall apply at the band edges.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

### 5.2.2 Block Diagram of Test Setup



### 5.2.3 Test procedure

1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.
2. Exploratory measurements were made to identify the frequency of the emission that has the highest amplitude relative to the limit;
3. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).
4. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.
5. The bandwidth of test receiver (ESCI) set at 9 KHz.
6. All data was recorded in the Quasi-peak and average detection mode.

### 5.2.4 Test Result

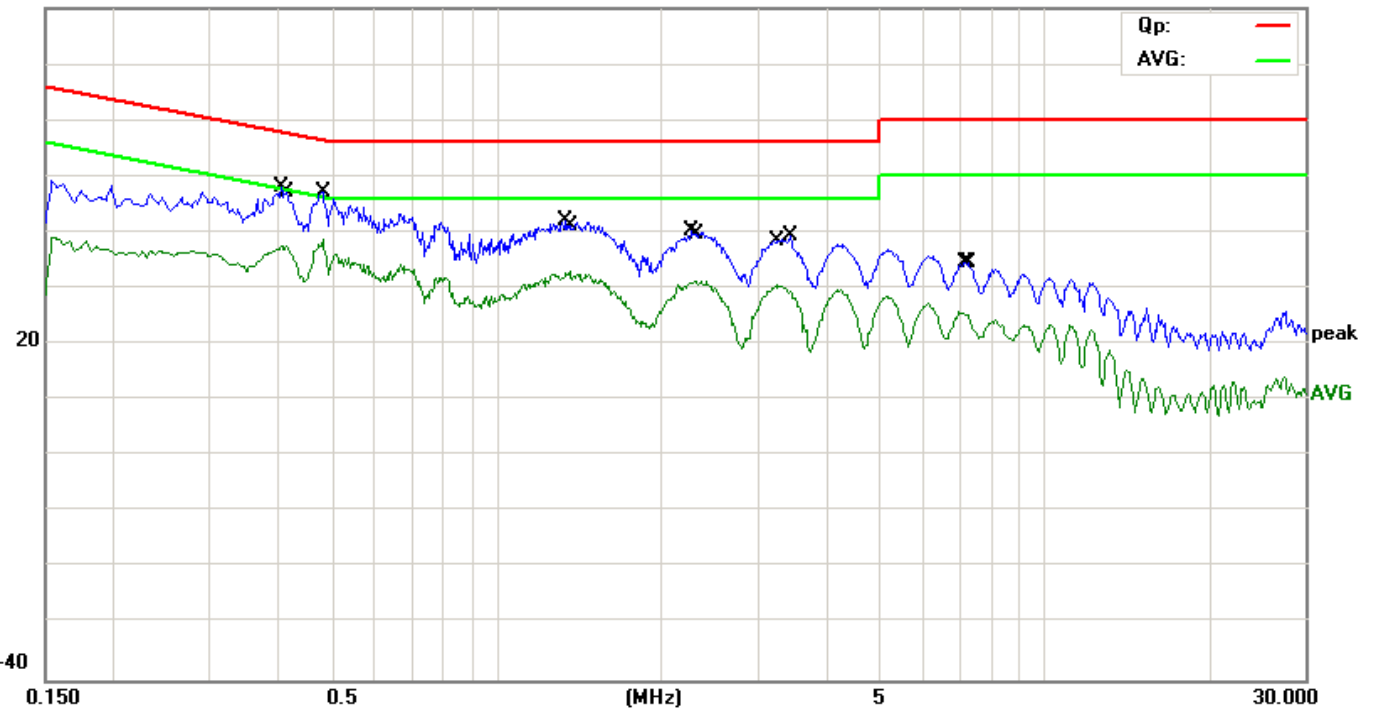
PASS

Note: All test modes are performed, only the worst case is recorded in this report.

Please refer the following pages.

|                         |                    |            |                   |
|-------------------------|--------------------|------------|-------------------|
| EUT:                    | Wireless headphone | M/N:       | PICKov TS816B SW  |
| Mode:                   | GFSK               | Phase:     | L1                |
| Tested by:              | SKY(Engineer)      | Power:     | DC 5V by USB Port |
| Temperature: / Humidity | 23.4°C / 52.9%     | Test date: | 2016-11-10        |

80.0 dBuV

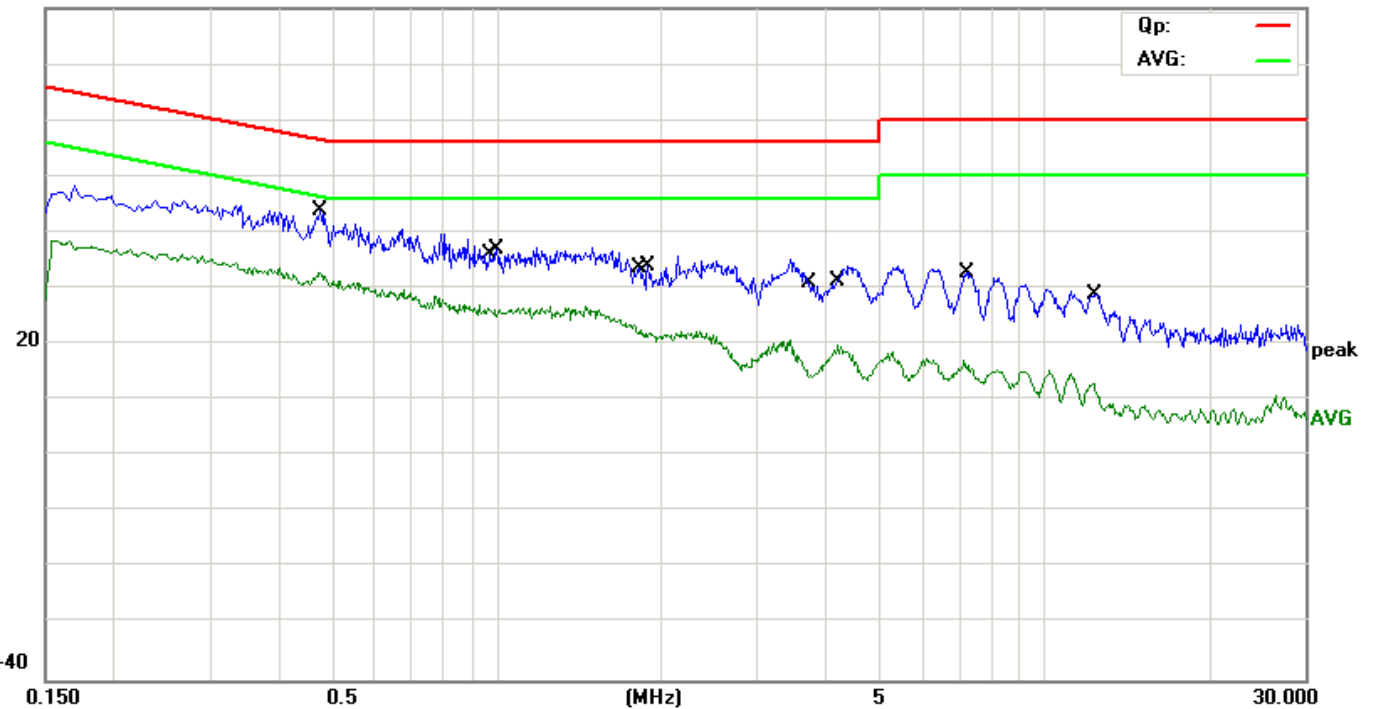


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 0.4060       | 38.34                    | 9.59                    | 47.93                    | 57.73         | -9.80      | QP       |         |
| 2   |     | 0.4140       | 27.87                    | 9.59                    | 37.46                    | 47.57         | -10.11     | AVG      |         |
| 3   |     | 0.4820       | 37.58                    | 9.59                    | 47.17                    | 56.30         | -9.13      | QP       |         |
| 4   | *   | 0.4820       | 29.14                    | 9.59                    | 38.73                    | 46.30         | -7.57      | AVG      |         |
| 5   |     | 1.3420       | 32.45                    | 9.60                    | 42.05                    | 56.00         | -13.95     | QP       |         |
| 6   |     | 1.3620       | 23.32                    | 9.60                    | 32.92                    | 46.00         | -13.08     | AVG      |         |
| 7   |     | 2.2740       | 30.62                    | 9.61                    | 40.23                    | 56.00         | -15.77     | QP       |         |
| 8   |     | 2.3180       | 21.61                    | 9.61                    | 31.22                    | 46.00         | -14.78     | AVG      |         |
| 9   |     | 3.2420       | 20.92                    | 9.61                    | 30.53                    | 46.00         | -15.47     | AVG      |         |
| 10  |     | 3.4380       | 29.89                    | 9.61                    | 39.50                    | 56.00         | -16.50     | QP       |         |
| 11  |     | 7.2460       | 15.71                    | 9.65                    | 25.36                    | 50.00         | -24.64     | AVG      |         |
| 12  |     | 7.2540       | 24.93                    | 9.65                    | 34.58                    | 60.00         | -25.42     | QP       |         |

\*:Maximum data    x:Over limit    !:over margin

|                         |                    |            |                   |
|-------------------------|--------------------|------------|-------------------|
| EUT:                    | Wireless headphone | M/N:       | PICKov TS816B SW  |
| Mode:                   | GFSK               | Phase:     | N                 |
| Tested by:              | SKY(Engineer)      | Power:     | DC 5V by USB Port |
| Temperature: / Humidity | 23.4°C / 52.9%     | Test date: | 2016-11-10        |

80.0 dBuV



| 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 | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   | *   | 0.4780       | 34.35                    | 9.59                    | 43.94                    | 56.37         | -12.43     | QP       |         |
| 2   |     | 0.4780       | 23.16                    | 9.59                    | 32.75                    | 46.37         | -13.62     | AVG      |         |
| 3   |     | 0.9660       | 16.74                    | 9.60                    | 26.34                    | 46.00         | -19.66     | AVG      |         |
| 4   |     | 1.0020       | 27.25                    | 9.60                    | 36.85                    | 56.00         | -19.15     | QP       |         |
| 5   |     | 1.8340       | 12.81                    | 9.60                    | 22.41                    | 46.00         | -23.59     | AVG      |         |
| 6   |     | 1.8900       | 24.21                    | 9.60                    | 33.81                    | 56.00         | -22.19     | QP       |         |
| 7   |     | 3.7300       | 21.47                    | 9.62                    | 31.09                    | 56.00         | -24.91     | QP       |         |
| 8   |     | 4.1340       | 8.50                     | 9.62                    | 18.12                    | 46.00         | -27.88     | AVG      |         |
| 9   |     | 7.1580       | 7.50                     | 9.65                    | 17.15                    | 50.00         | -32.85     | AVG      |         |
| 10  |     | 7.2380       | 23.05                    | 9.65                    | 32.70                    | 60.00         | -27.30     | QP       |         |
| 11  |     | 12.3380      | 3.35                     | 9.69                    | 13.04                    | 50.00         | -36.96     | AVG      |         |
| 12  |     | 12.4260      | 19.24                    | 9.69                    | 28.93                    | 60.00         | -31.07     | QP       |         |

\*:Maximum data    x:Over limit    !:over margin

## 5.3 Radiated Emission

### 5.3.1 Requirement

According to FCC section 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to FCC section 15.209(a), Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency (MHz) | Field Strength ( $\mu\text{V/m}$ at 3-meter) | Test Distance (m) | Field Strength ( $\text{dB}\mu\text{V/m}$ at 3-meter) |
|-----------------|----------------------------------------------|-------------------|-------------------------------------------------------|
| 0.009 - 0.490   | $2400/F(\text{kHz})$                         | 300               |                                                       |
| 0.490 - 1.705   | $24000/F(\text{kHz})$                        | 30                |                                                       |
| 1.705-30        | 30                                           | 30                |                                                       |
| 30-88           | 100                                          | 3                 | 40                                                    |
| 88-216          | 150                                          | 3                 | 43.5                                                  |
| 216-960         | 200                                          | 3                 | 46                                                    |
| Above 960       | 500                                          | 3                 | 54                                                    |

Note:

1. For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

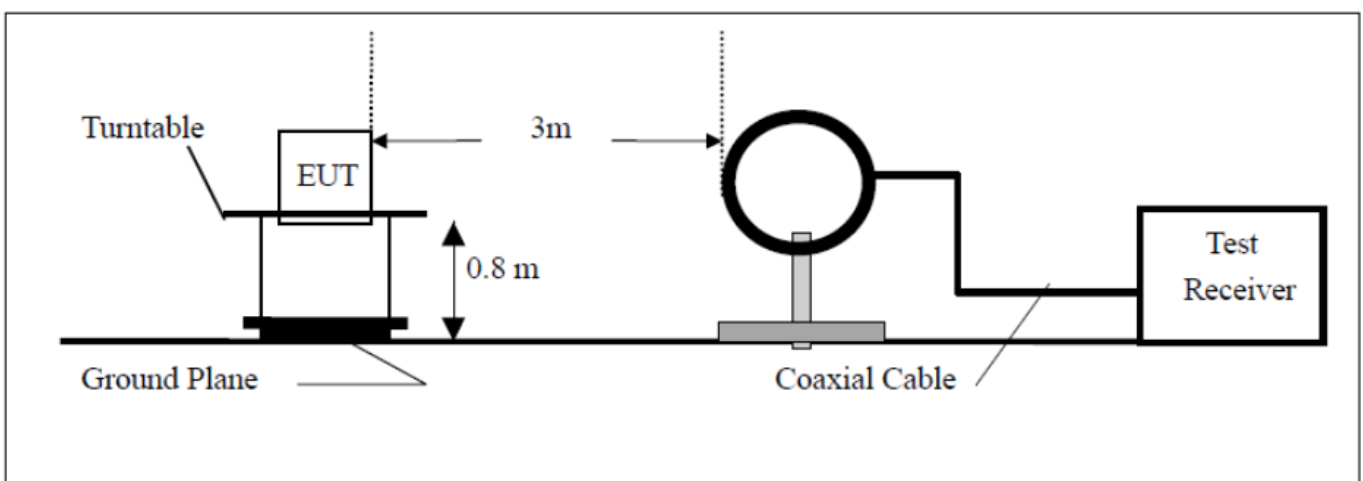
2. For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK)

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

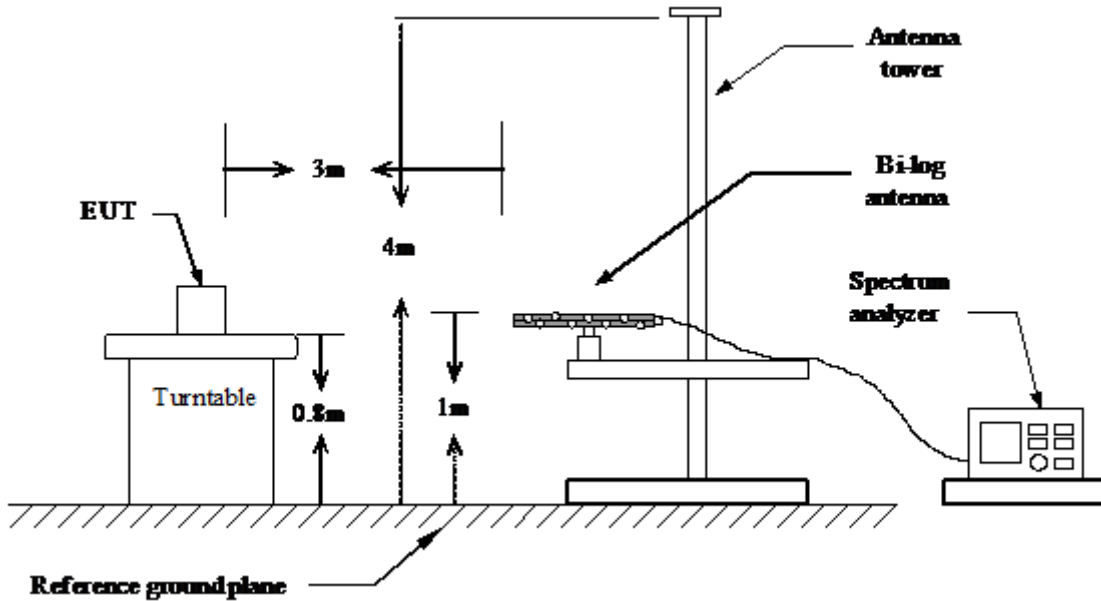
### 5.3.2 Test Configuration

#### Test Setup:

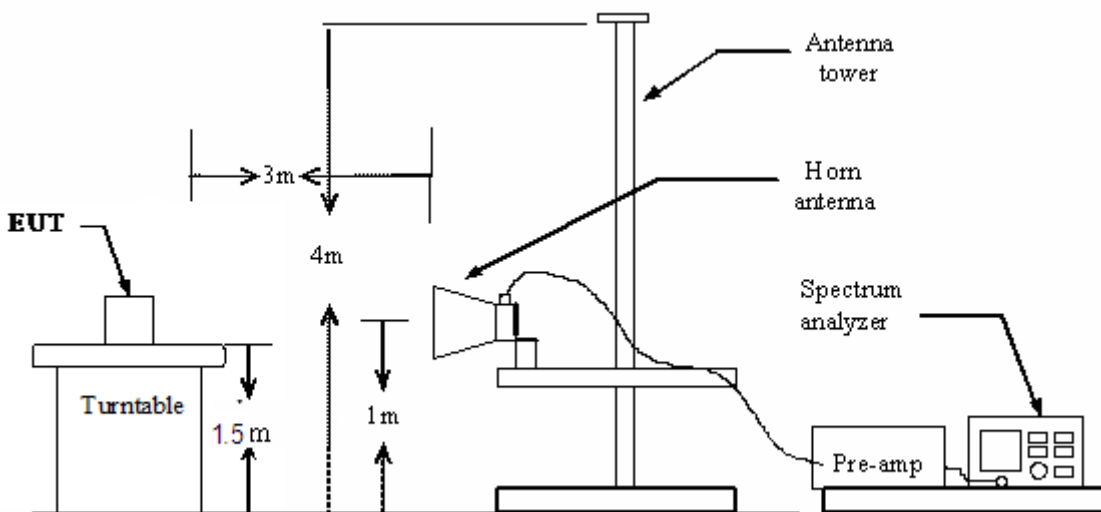
1) For radiated emissions from 9kHz to 30MHz



## 2) For radiated emissions from 30MHz to 1GHz



## 3) For radiated emissions above 1GHz

**5.3.3 Test Procedure:**

1. The EUT was placed on the top of a wooden table 0.8 meters (for measurement at frequency below 1GHz) and a wooden table 1.5 meters (for measurement at frequency above 1GHz) above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter, for the test frequency of above 1GHz, horn antenna opening in the test would have been facing the EUT when rise or fall) and the table was turned from 0 degrees to 360 degrees to find the maximum reading.

6. Set the spectrum analyzer in the following setting as:

Below 1GHz: PEAK: RBW=100 kHz / VBW=300 kHz / Sweep=AUTO QP: RBW=120 kHz / Sweep=AUTO  
Above 1GHz: (a)PEAK: RBW=VBW=1MHz / Sweep=AUTO  
(b)AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

7. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

#### 5.3.4 Test Result

Pass

##### Remark:

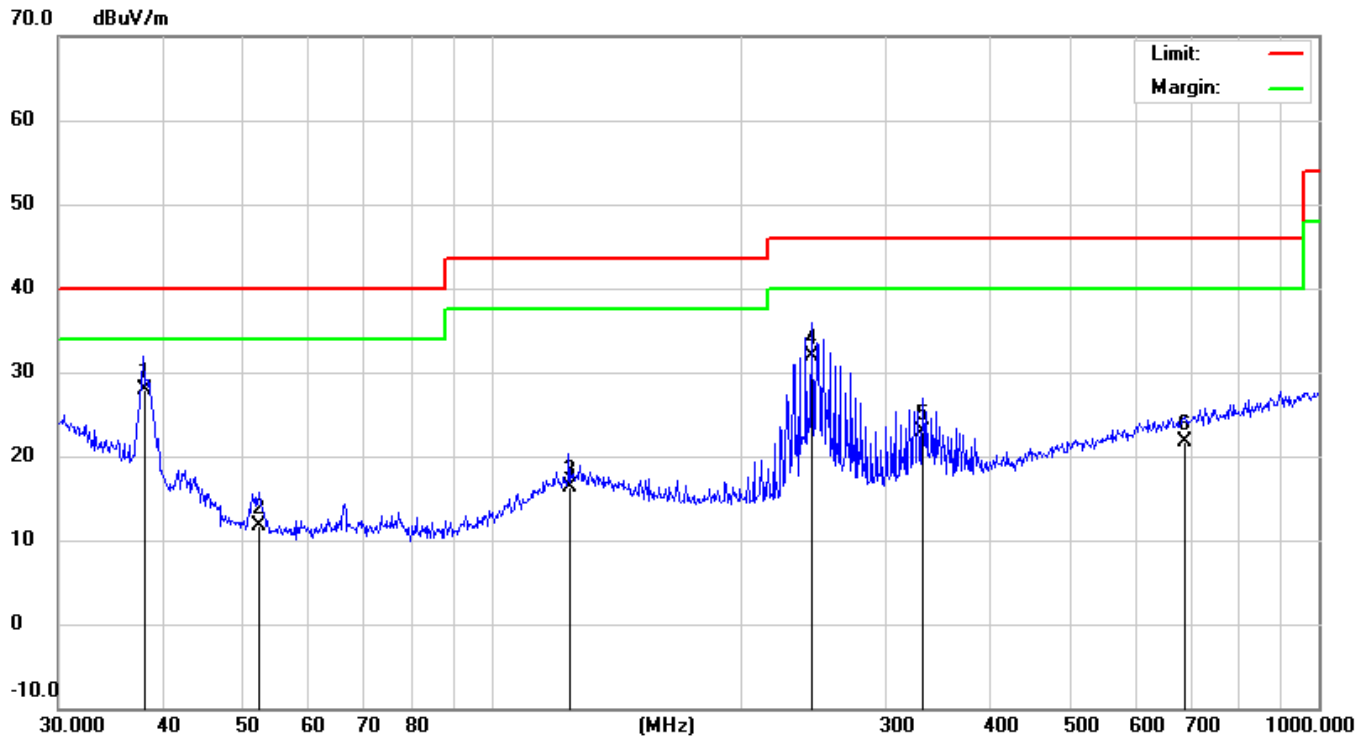
1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.
2. Found the GFSK modulation Low channel is worse case in above 1GHz and below 1GHz.
3. For radiated emissions from 9kHz to 30MHz, Test results show that the margin of over -20db.

Note: All test modes are performed, only the worst case is recorded in this report.

Please refer the following pages

## Below 1GHz:

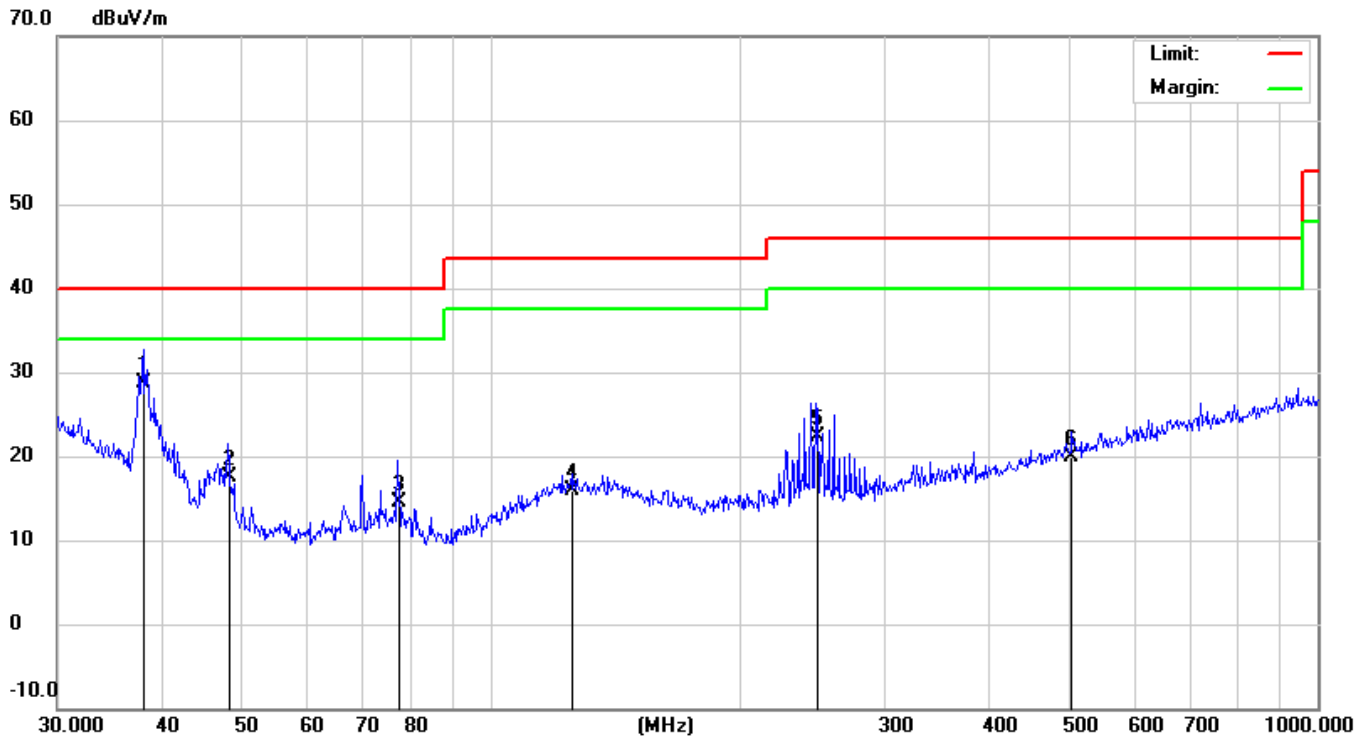
|                         |                    |               |                    |
|-------------------------|--------------------|---------------|--------------------|
| EUT:                    | Wireless headphone | M/N:          | PICKov TS816B SW   |
| Mode:                   | GFSK-CH0           | Polarization: | Horizontal         |
| Tested by:              | SKY(Engineer)      | Power:        | DC 3.7V by Battery |
| Temperature: / Humidity | 24.0°C / 50.5%     | Test date:    | 2016-11-10         |



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | cm             | degree       | Comment |
| 1   | *   | 37.9450  | 12.68         | 15.32          | 28.00       | 40.00  | -12.00 | QP             |              |         |
| 2   |     | 52.3912  | 3.64          | 7.98           | 11.62       | 40.00  | -28.38 | QP             |              |         |
| 3   |     | 124.1330 | 2.37          | 13.97          | 16.34       | 43.50  | -27.16 | QP             |              |         |
| 4   |     | 244.2321 | 20.02         | 11.85          | 31.87       | 46.00  | -14.13 | QP             |              |         |
| 5   |     | 332.5187 | 8.87          | 14.12          | 22.99       | 46.00  | -23.01 | QP             |              |         |
| 6   |     | 689.5644 | 1.66          | 19.96          | 21.62       | 46.00  | -24.38 | QP             |              |         |

\*:Maximum data    x:Over limit    !:over margin

|                         |                    |               |                    |
|-------------------------|--------------------|---------------|--------------------|
| EUT:                    | Wireless headphone | M/N:          | PICKov TS816B SW   |
| Mode:                   | GFSK-CH0           | Polarization: | Vertical           |
| Tested by:              | SKY(Engineer)      | Power:        | DC 3.7V by Battery |
| Temperature: / Humidity | 24.0°C / 50.5%     | Test date:    | 2016-11-10         |

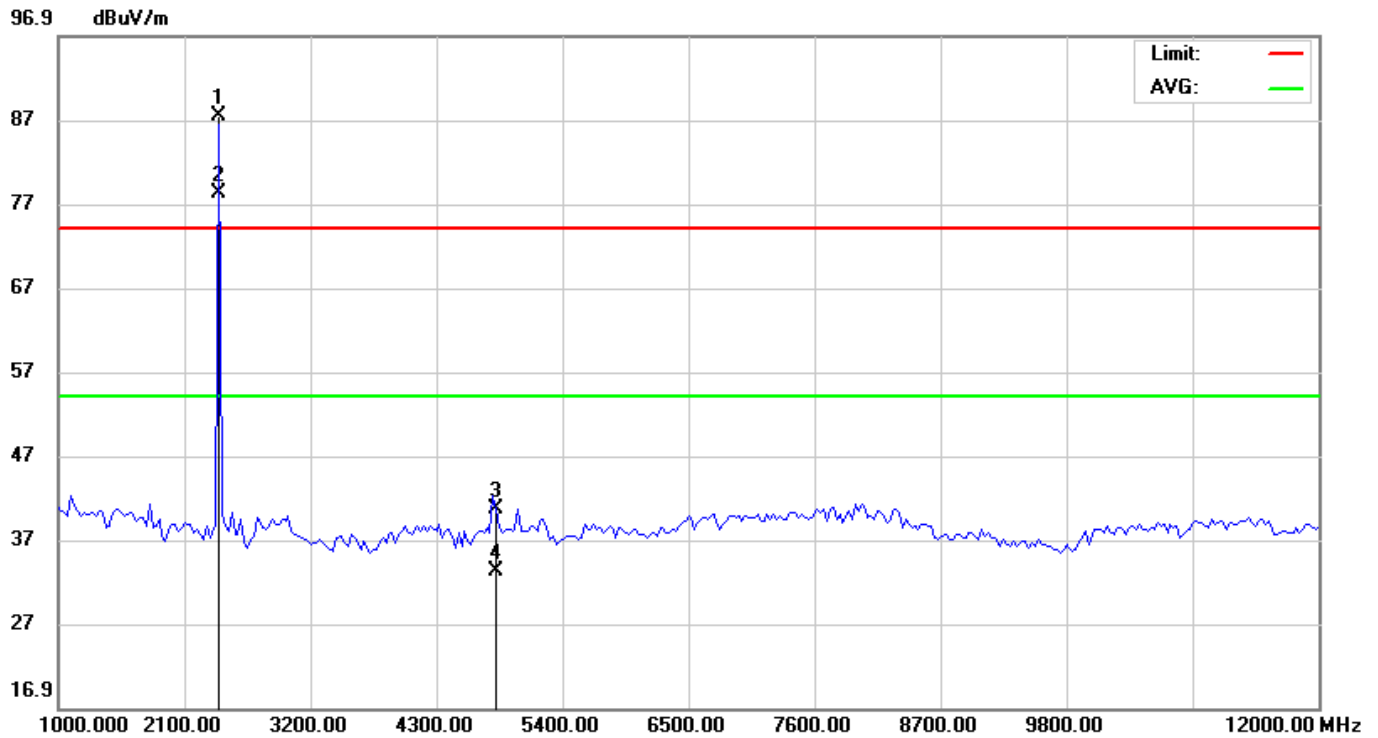


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | cm             | degree       | Comment |
| 1   | *   | 38.0783  | 13.47         | 15.22          | 28.69       | 40.00  | -11.31 | QP             |              |         |
| 2   |     | 48.1626  | 8.50          | 8.98           | 17.48       | 40.00  | -22.52 | QP             |              |         |
| 3   |     | 77.3212  | 6.34          | 8.15           | 14.49       | 40.00  | -25.51 | QP             |              |         |
| 4   |     | 125.4457 | 1.89          | 13.98          | 15.87       | 43.50  | -27.63 | QP             |              |         |
| 5   |     | 247.6819 | 10.57         | 11.82          | 22.39       | 46.00  | -23.61 | QP             |              |         |
| 6   |     | 504.7062 | 2.10          | 17.75          | 19.85       | 46.00  | -26.15 | QP             |              |         |

\*:Maximum data    x:Over limit    !:over margin

## Above 1GHz:

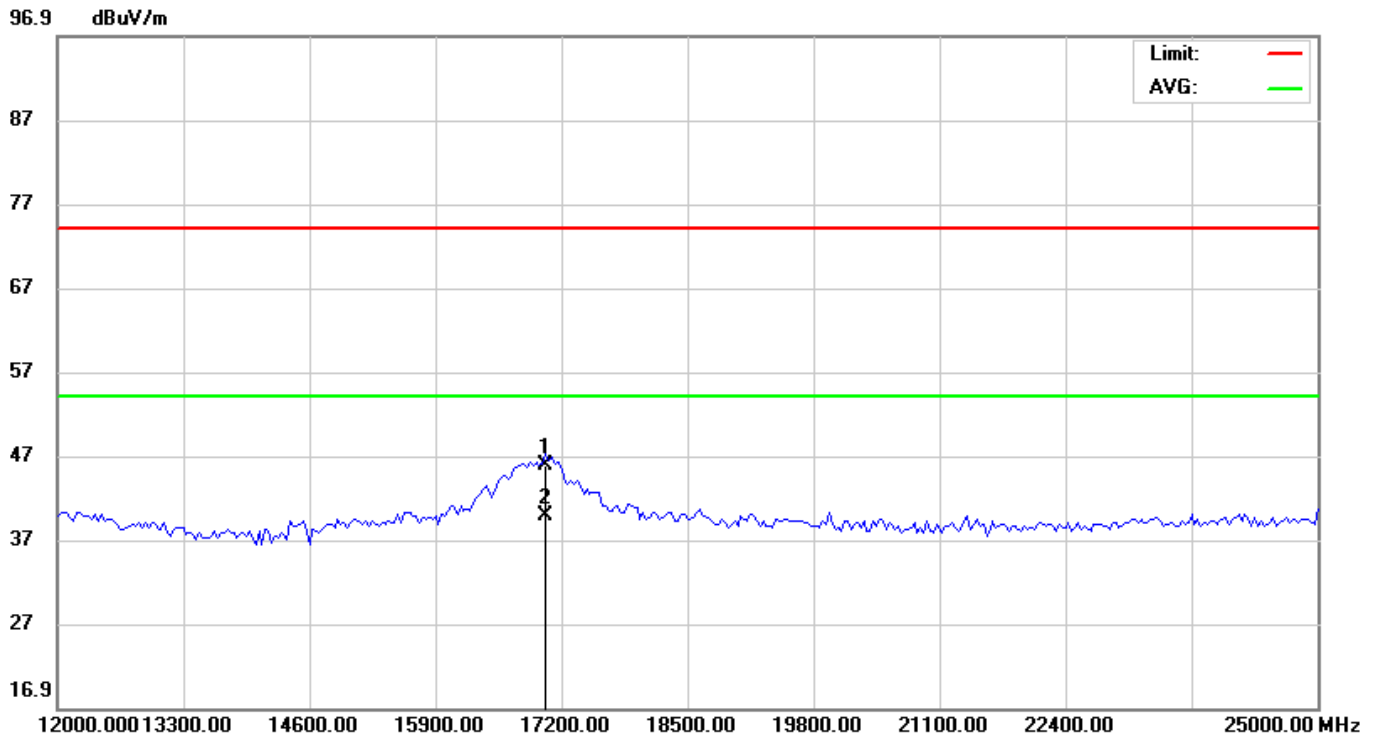
|                         |                    |               |                    |
|-------------------------|--------------------|---------------|--------------------|
| EUT:                    | Wireless headphone | M/N:          | PICKov TS816B SW   |
| Mode:                   | GFSK-CH0           | Polarization: | Horizontal         |
| Tested by:              | SKY(Engineer)      | Power:        | DC 3.7V by Battery |
| Temperature: / Humidity | 24.2°C / 51.3%     | Test date:    | 2016-11-10         |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Antenna<br>Height<br>cm | Table<br>Degree<br>degree | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|-------------------------|---------------------------|---------|
| 1   | X   | 2402.500     | 95.86                    | -8.43                   | 87.43                      | 74.00           | 13.43      | peak     |                         |                           |         |
| 2   | *   | 2402.500     | 86.70                    | -8.43                   | 78.27                      | 54.00           | 24.27      | AVG      |                         |                           |         |
| 3   |     | 4804.000     | 46.75                    | -6.15                   | 40.60                      | 74.00           | -33.40     | peak     |                         |                           |         |
| 4   |     | 4804.000     | 39.40                    | -6.15                   | 33.25                      | 54.00           | -20.75     | AVG      |                         |                           |         |

\*:Maximum data    x:Over limit    !:over margin

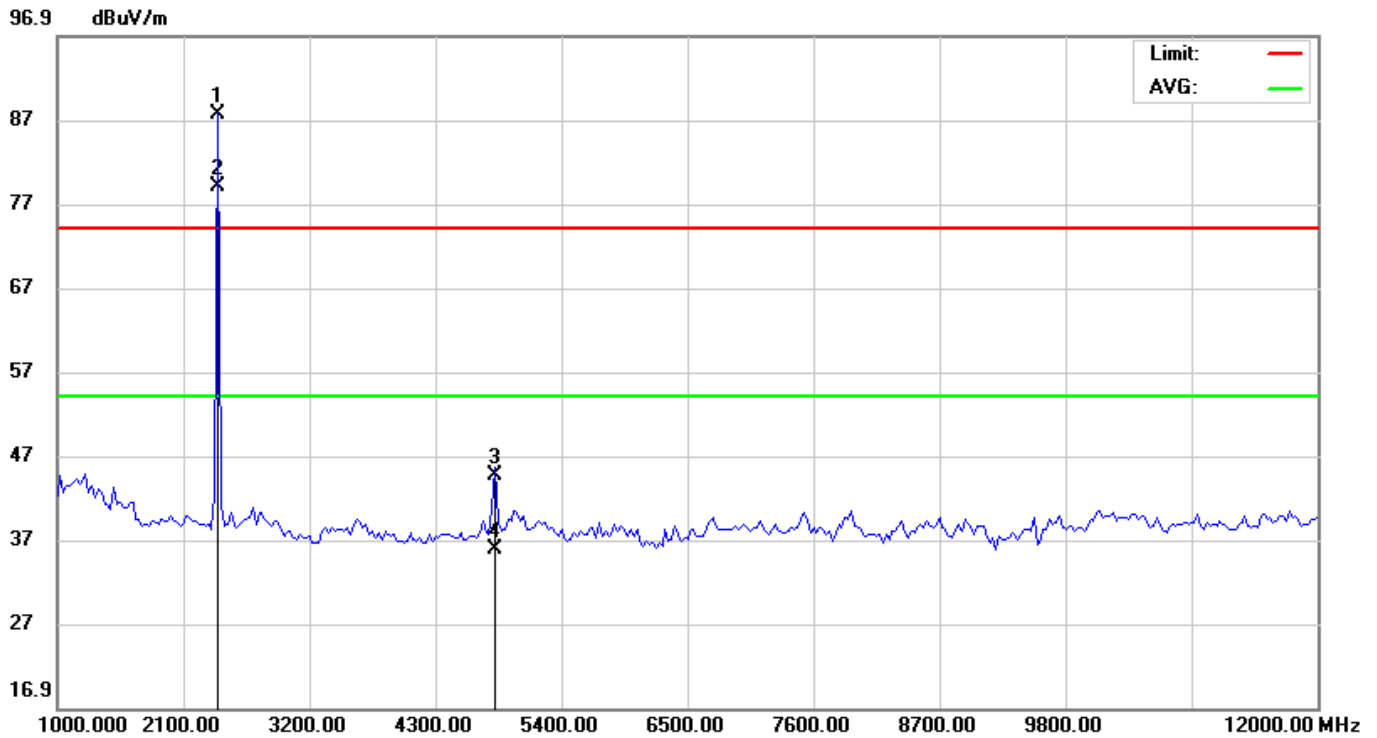
|                         |                    |               |                    |
|-------------------------|--------------------|---------------|--------------------|
| EUT:                    | Wireless headphone | M/N:          | PICKov TS816B SW   |
| Mode:                   | GFSK-CH0           | Polarization: | Horizontal         |
| Tested by:              | SKY(Engineer)      | Power:        | DC 3.7V by Battery |
| Temperature: / Humidity | 24.2°C / 51.3%     | Test date:    | 2016-11-10         |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Antenna<br>Height<br>cm | Table<br>Degree<br>degree | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|-------------------------|---------------------------|---------|
| 1   |     | 17037.50     | 39.01                    | 6.73                    | 45.74                      | 74.00           | -28.26     | peak                    |                           |         |
| 2   | *   | 17037.50     | 33.15                    | 6.73                    | 39.88                      | 54.00           | -14.12     | AVG                     |                           |         |

\*:Maximum data    x:Over limit    !:over margin

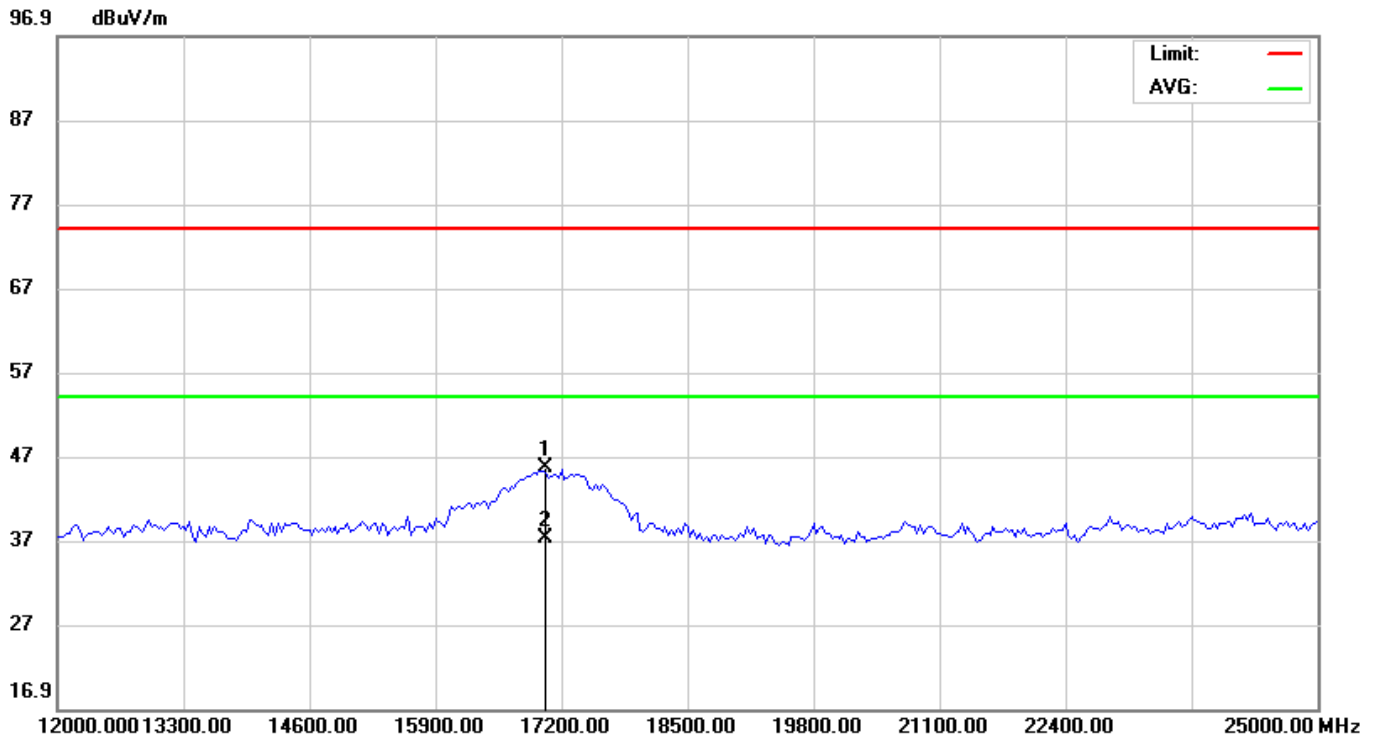
|                         |                    |               |                    |
|-------------------------|--------------------|---------------|--------------------|
| EUT:                    | Wireless headphone | M/N:          | PICKov TS816B SW   |
| Mode:                   | GFSK-CH0           | Polarization: | Vertical           |
| Tested by:              | SKY(Engineer)      | Power:        | DC 3.7V by Battery |
| Temperature: / Humidity | 24.2°C / 51.3%     | Test date:    | 2016-11-10         |



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | cm             | degree       | Comment |
| 1   | X   | 2402.500 | 96.01         | -8.43          | 87.58       | 74.00  | 13.58  |                |              | peak    |
| 2   | *   | 2402.500 | 87.50         | -8.43          | 79.07       | 54.00  | 25.07  |                |              | AVG     |
| 3   |     | 4804.000 | 50.76         | -6.15          | 44.61       | 74.00  | -29.39 |                |              | peak    |
| 4   |     | 4804.000 | 41.90         | -6.15          | 35.75       | 54.00  | -18.25 |                |              | AVG     |

\*:Maximum data    x:Over limit    !:over margin

|                         |                    |               |                    |
|-------------------------|--------------------|---------------|--------------------|
| EUT:                    | Wireless headphone | M/N:          | PICKov TS816B SW   |
| Mode:                   | GFSK-CH0           | Polarization: | Vertical           |
| Tested by:              | SKY(Engineer)      | Power:        | DC 3.7V by Battery |
| Temperature: / Humidity | 24.2°C / 51.3%     | Test date:    | 2016-11-10         |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Antenna<br>Height<br>cm | Table<br>Degree<br>degree | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|-------------------------|---------------------------|---------|
| 1   |     | 17006.00     | 38.70                    | 6.90                    | 45.60                      | 74.00           | -28.40     | peak                    |                           |         |
| 2   | *   | 17006.00     | 30.24                    | 6.90                    | 37.14                      | 54.00           | -16.86     | AVG                     |                           |         |

\*:Maximum data    x:Over limit    !:over margin

## 5.4 Conducted Peak Output Power

### 5.4.1 Requirement

According to FCC section 15.247(b)(3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

### 5.4.2 Block Diagram of Test Setup



### 5.5.3 Test Procedure

1. Place the EUT on a bench and set in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to an EMI test receiver.
3. Add a correction factor to the display.

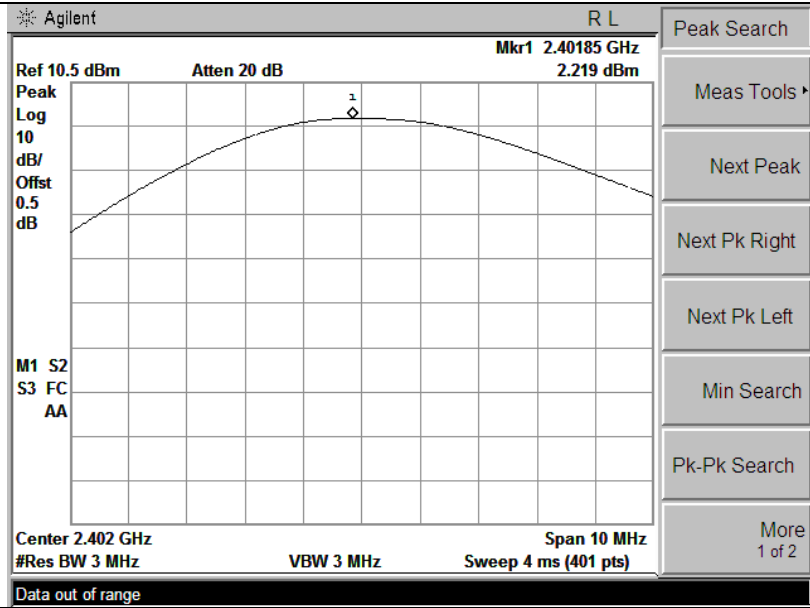
.

### 5.4.4 Test Result

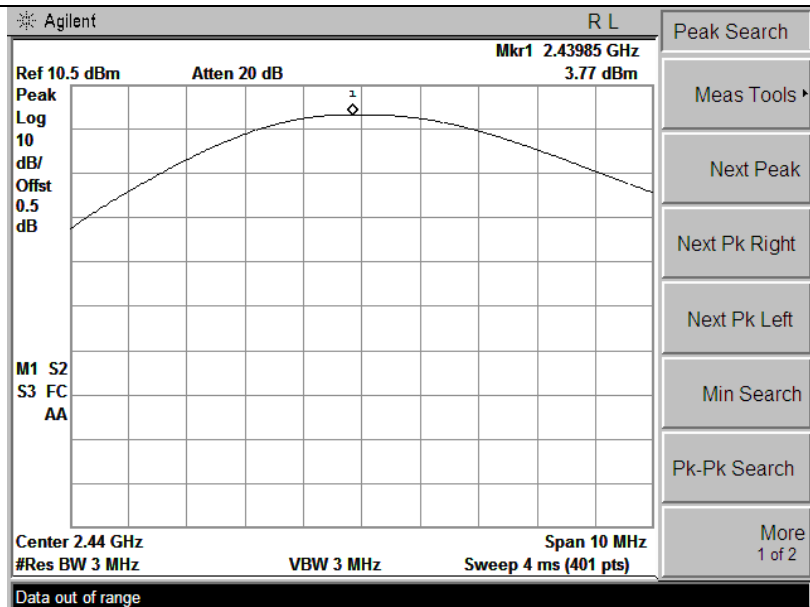
|            |                   |                     |      |
|------------|-------------------|---------------------|------|
| Test Item: | Peak Output Power | Temperature :       | 21°C |
| Tested by: | Sunny (Engineer)  | Relative Humidity : | 57%  |

| Mode | Channel | Frequency (MHz) | Peak Output Power(dBm) | Limit |       | Pass/Fail |
|------|---------|-----------------|------------------------|-------|-------|-----------|
|      |         |                 |                        | (mW)  | (dBm) |           |
| GFSK | Low     | 2402            | 2.219                  | 1000  | 30    | Pass      |
|      | Middle  | 2440            | 3.770                  | 1000  | 30    | Pass      |
|      | High    | 2480            | 3.706                  | 1000  | 30    | Pass      |

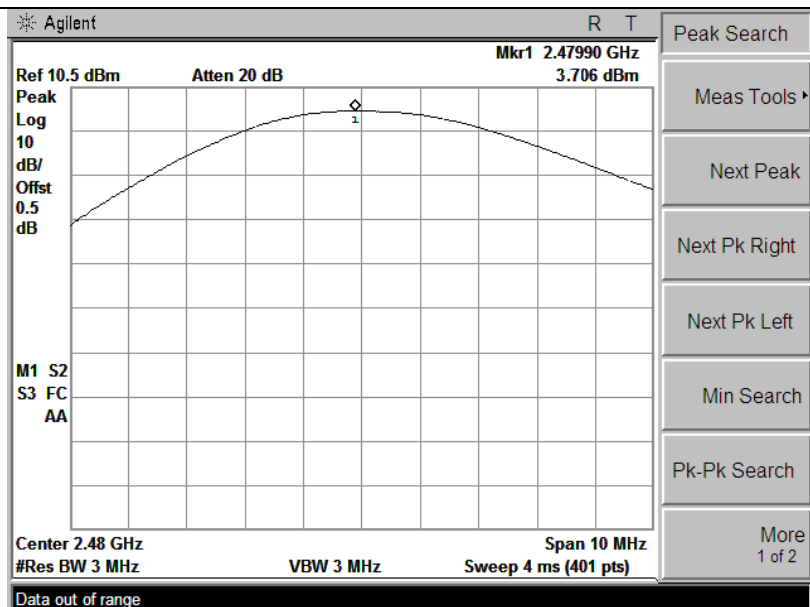
## GFSK Mode



## Ch 0



## Ch 19



## Ch 39

## 5.5 6dB Emission Bandwidth

### 5.5.1 Test Requirement

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

### 5.6.2 Block Diagram of Test Setup



### 5.5.3 Test Procedure

According to KDB 558074 D01 DTS Meas Guidance v03r02 clause8.1 Option 1:

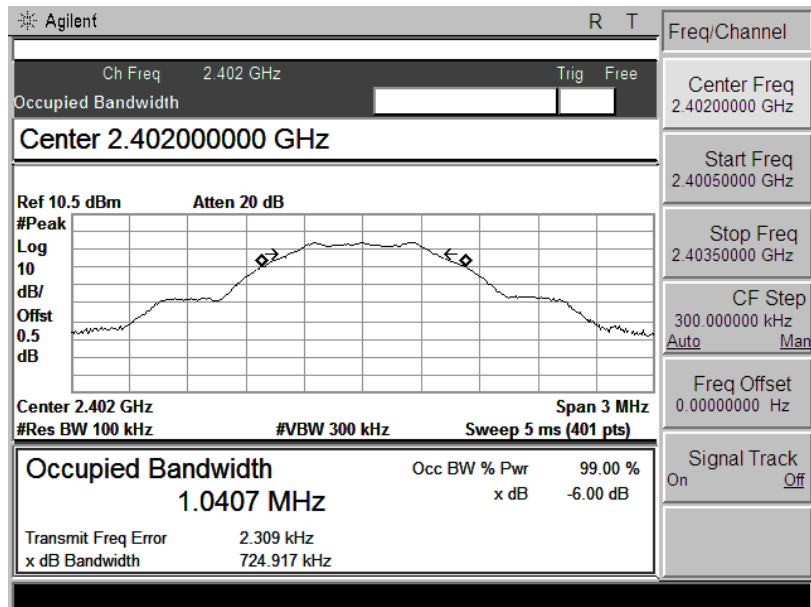
- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW)  $\geq 3 \times \text{RBW}$ .
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

### 5.5.4 Test Result

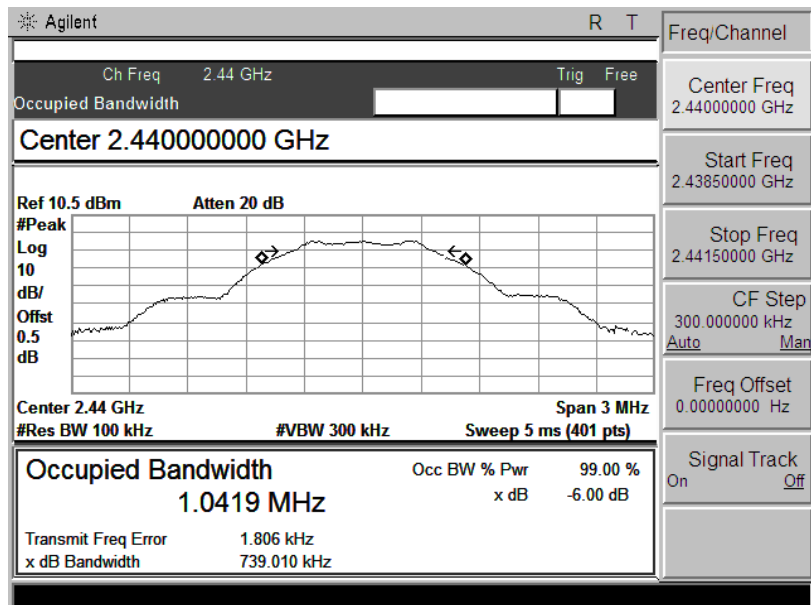
|                   |                        |                            |      |
|-------------------|------------------------|----------------------------|------|
| <b>Test Item:</b> | 6dB Emission Bandwidth | <b>Temperature :</b>       | 21°C |
| <b>Tested by:</b> | Sunny (Engineer)       | <b>Relative Humidity :</b> | 57%  |

| Mode | Channel | Frequency (MHz) | 6dB Bandwidth(KHz) | Limit(KHz) |
|------|---------|-----------------|--------------------|------------|
| GFSK | Low     | 2402            | 724.917            | $\geq 500$ |
|      | Middle  | 2440            | 739.010            | $\geq 500$ |
|      | High    | 2480            | 742.734            | $\geq 500$ |

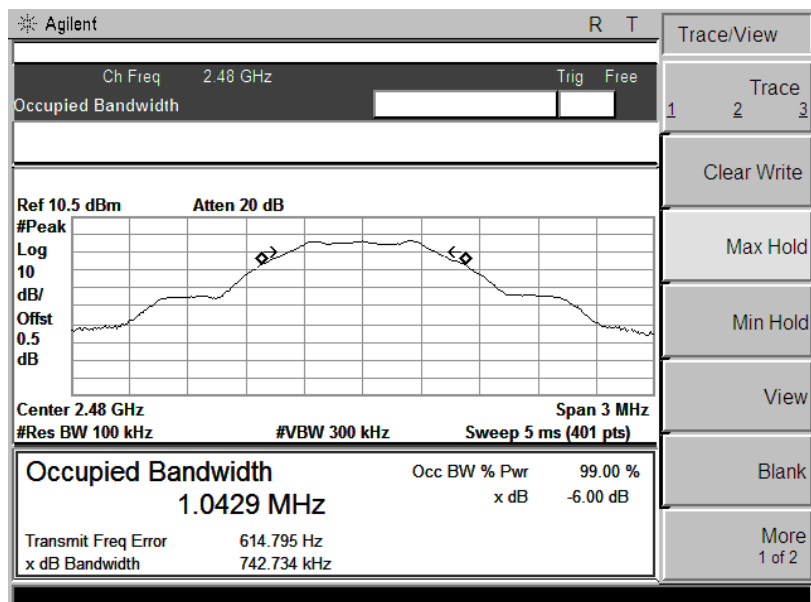
## GFSK Mode



## Ch 0



## Ch 19



## Ch 39

## 5.6 POWER SPECTRAL DENSITY

### 5.6.1 Applicable Standard

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

### 5.6.2 Block Diagram of Test Setup



### 5.6.3 Test Procedure

According to KDB 558074 D01 DTS Meas Guidance v03r01clause10.2:

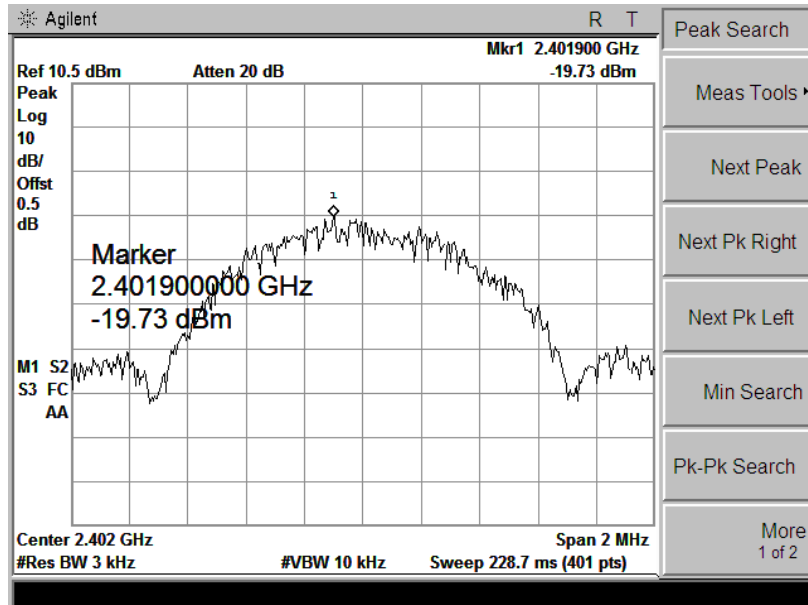
- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
- Set the VBW  $\geq 3 \times \text{RBW}$ .
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.
- If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

### 5.6.4 Test Result

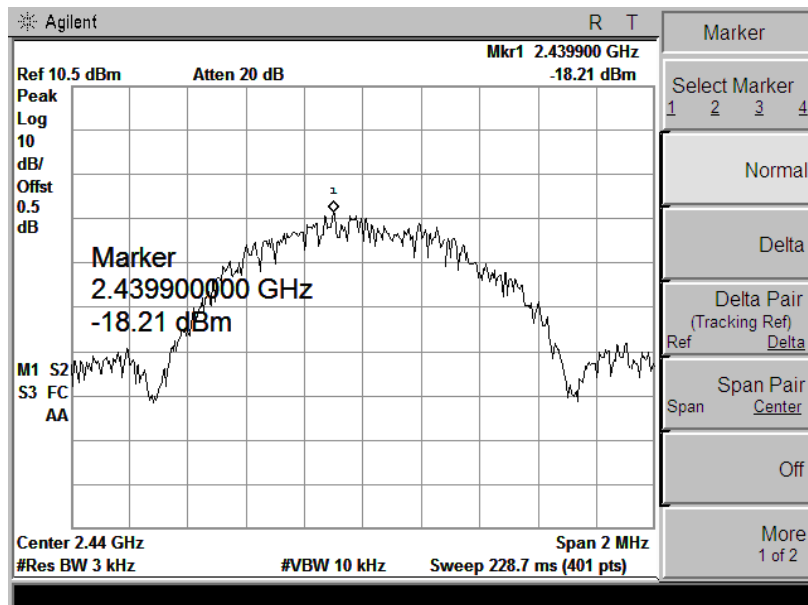
|            |                        |                     |      |
|------------|------------------------|---------------------|------|
| Test Item: | POWER SPECTRAL DENSITY | Temperature :       | 21°C |
| Tested by: | Sunny (Engineer)       | Relative Humidity : | 57%  |

| Mode | Channel | Frequency (MHz) | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Result |
|------|---------|-----------------|----------------|------------------|--------|
| GFSK | Low     | 2402            | -19.73         | $\leq 8$         | Pass   |
|      | Middle  | 2440            | -18.21         | $\leq 8$         | Pass   |
|      | High    | 2480            | -17.16         | $\leq 8$         | Pass   |

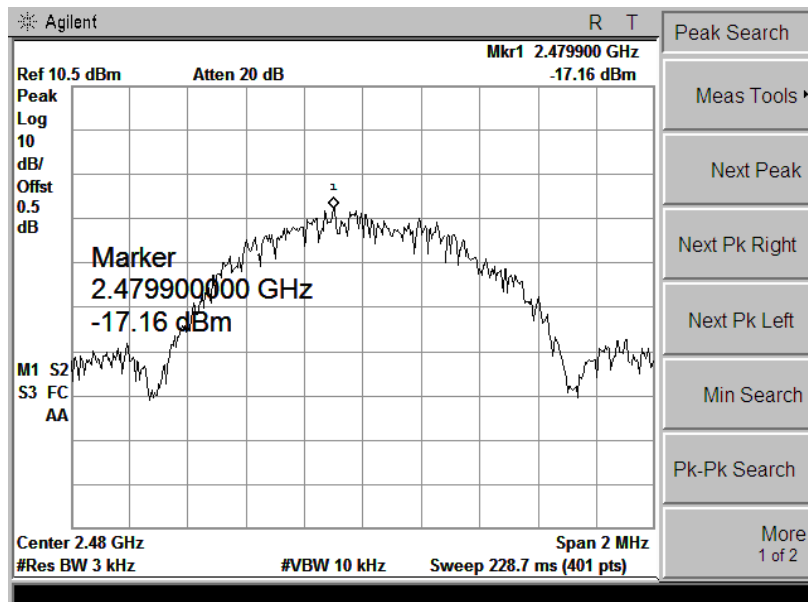
## GFSK Mode



Ch 0



Ch 19



Ch 39

## 5.7 Band Edge and Conducted Spurious Emissions

### 5.7.1 Test Requirement

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

### 5.7.2 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
3. Set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

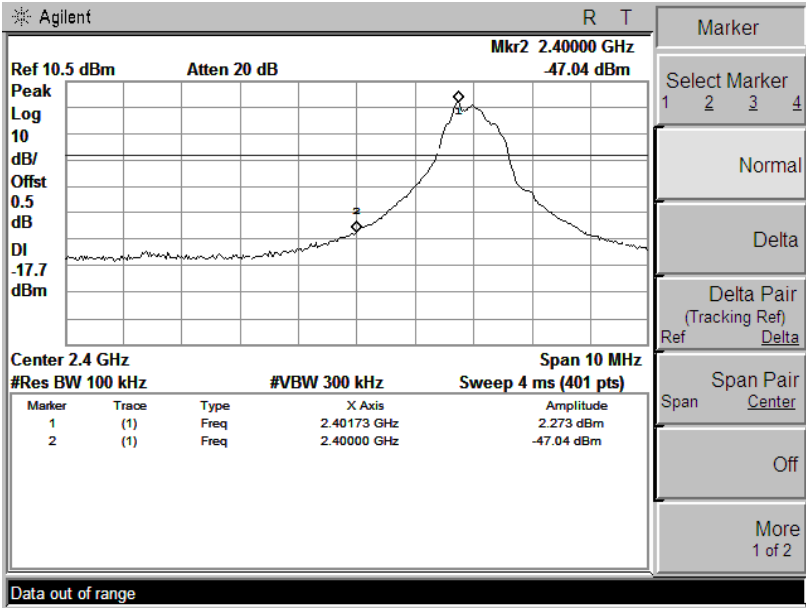
### 5.7.3 Test Result

Pass

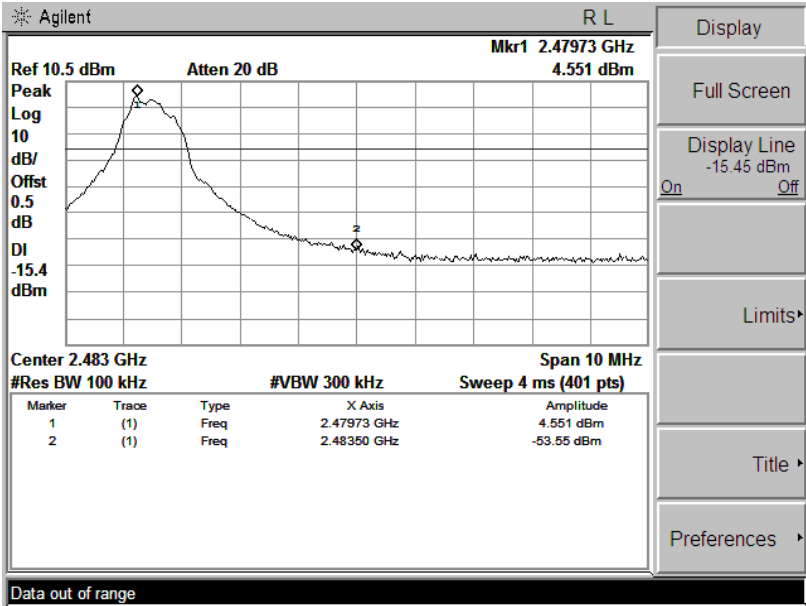
Remark:

|            |                  |                     |      |
|------------|------------------|---------------------|------|
| Test Item: | Band Edge        | Temperature :       | 21°C |
| Tested by: | Sunny (Engineer) | Relative Humidity : | 57%  |

GFSK Mode

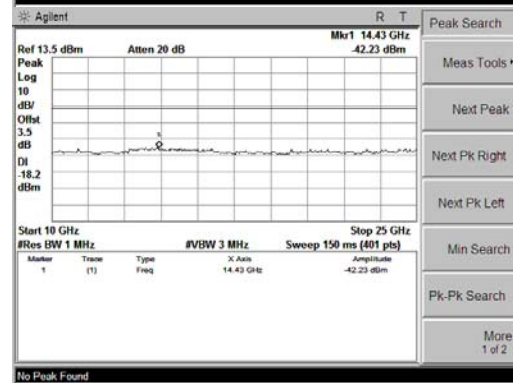
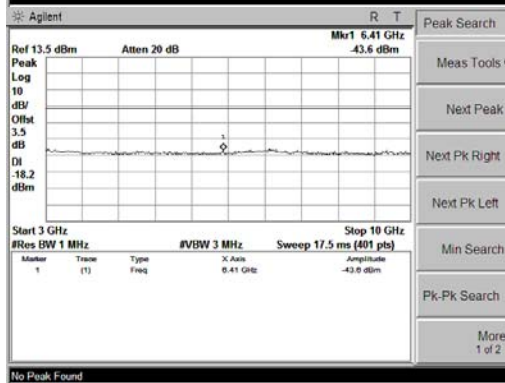
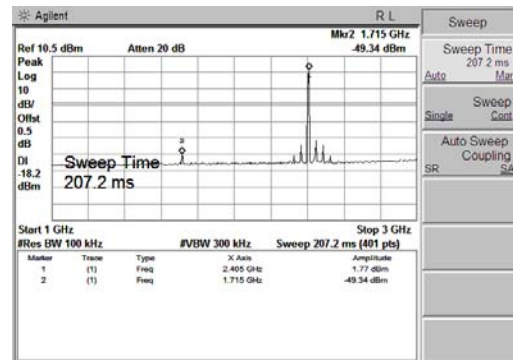
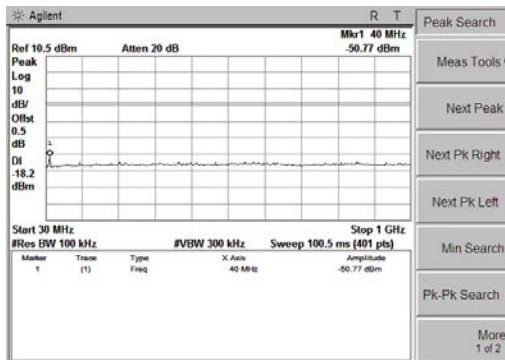


Band Edge, Left Side

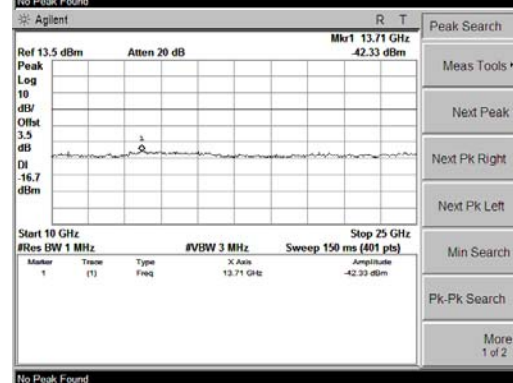
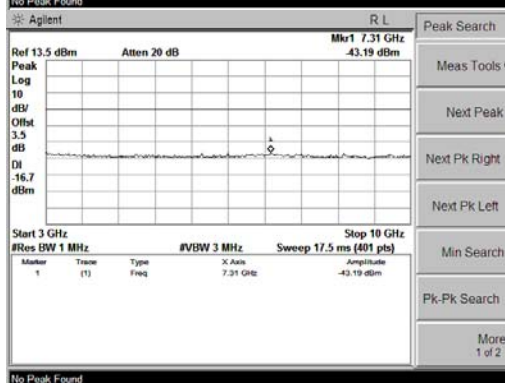
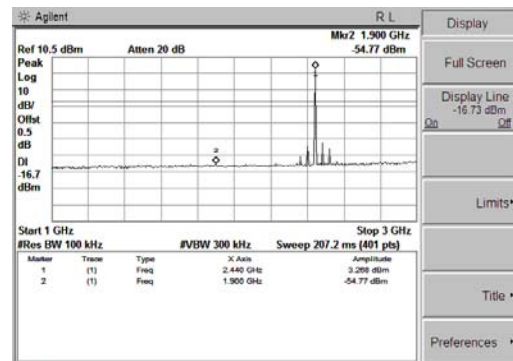
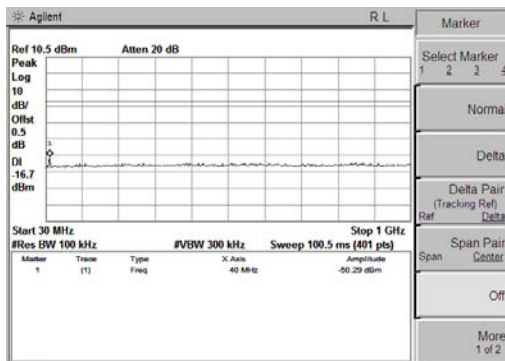


Band Edge, Right Side

## Conducted Spurious Emissions

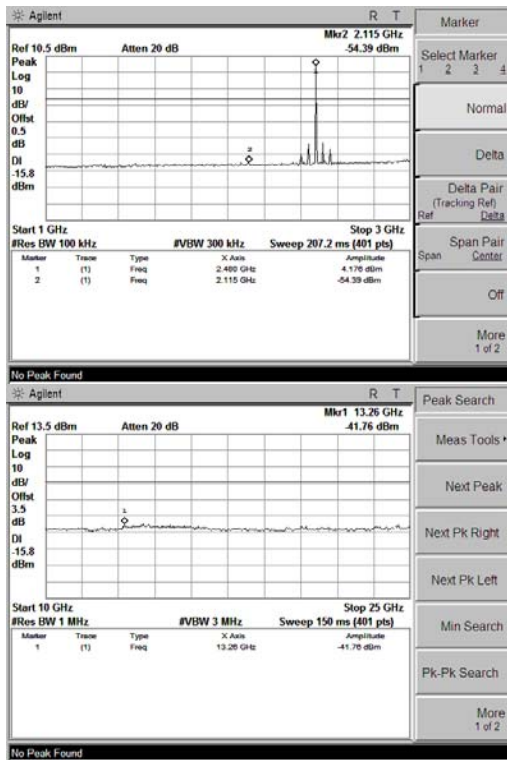
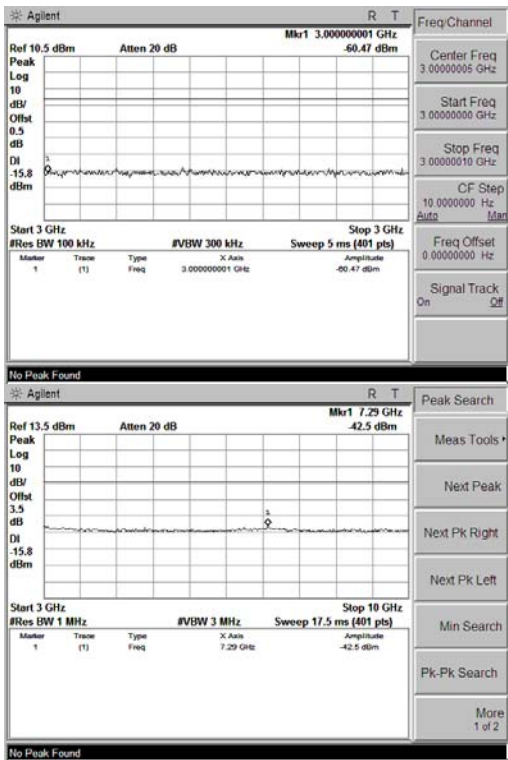


GFSK Mode, Ch0



GFSK Mode, Ch19

Conducted Spurious Emissions



GFSK Mode, Ch39

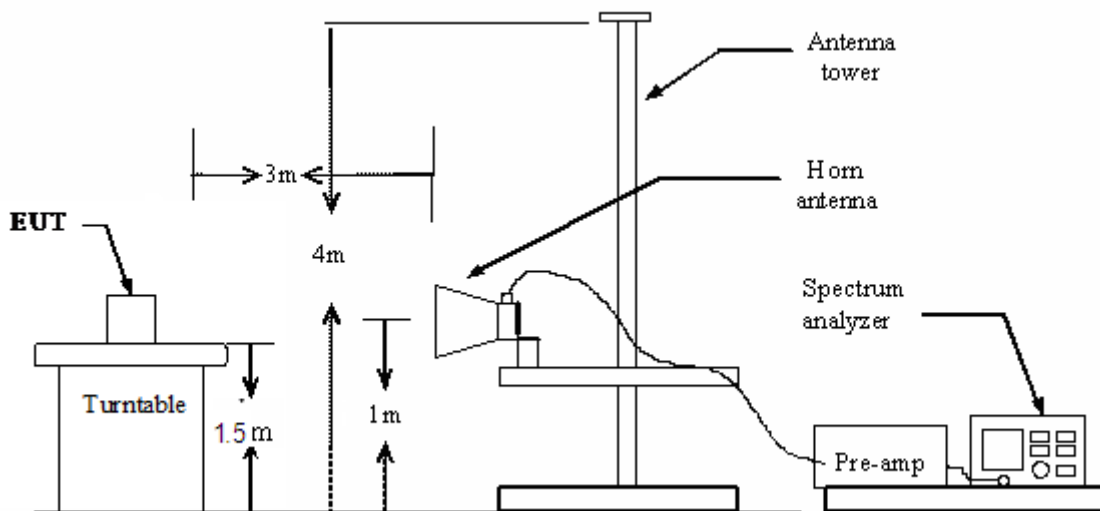
## 5.8 Restricted Frequency Bands

### 5.8.1 Test Requirement

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### 5.8.2 Test Configuration

Test Setup:



### 5.8.3 Test Procedure:

1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.

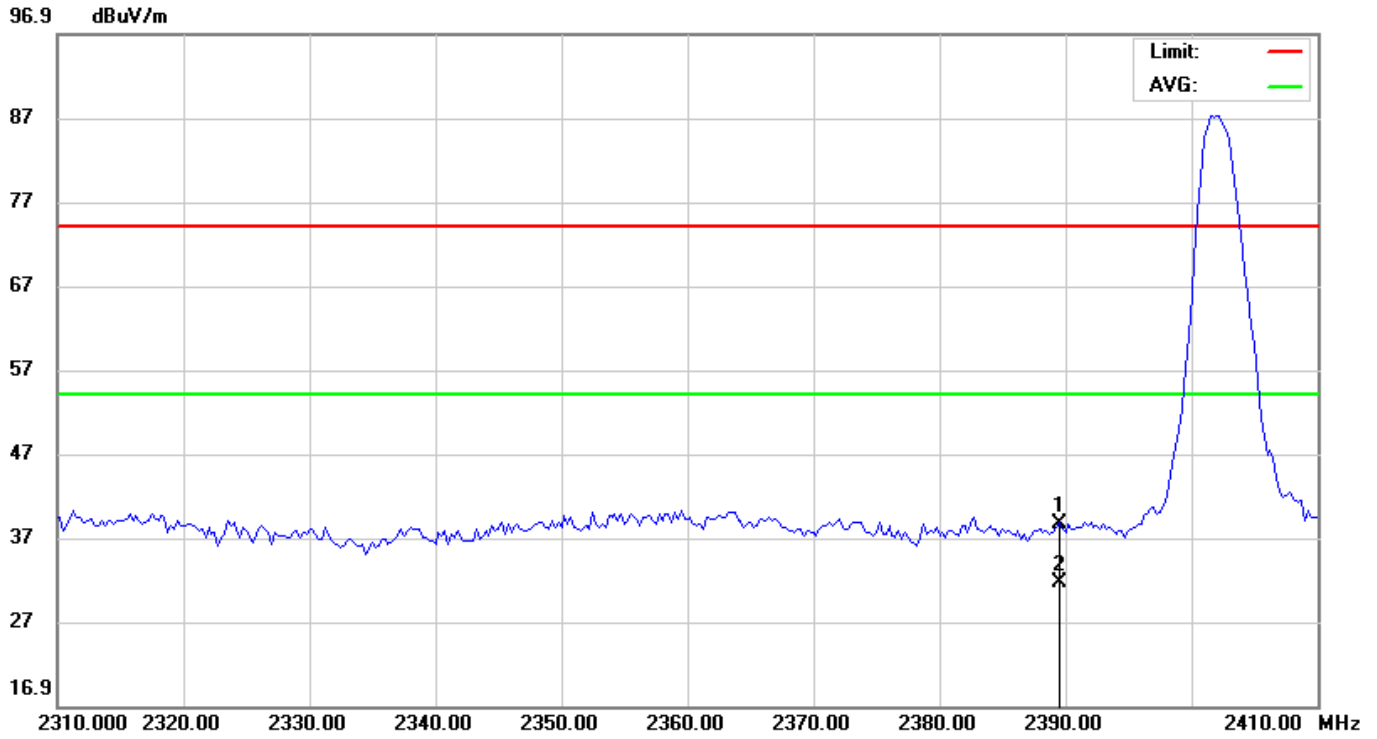
### 5.8.4 Test Result

Pass

Note: All test modes are performed, only the worst case is recorded in this report.

Please refer the following plots.

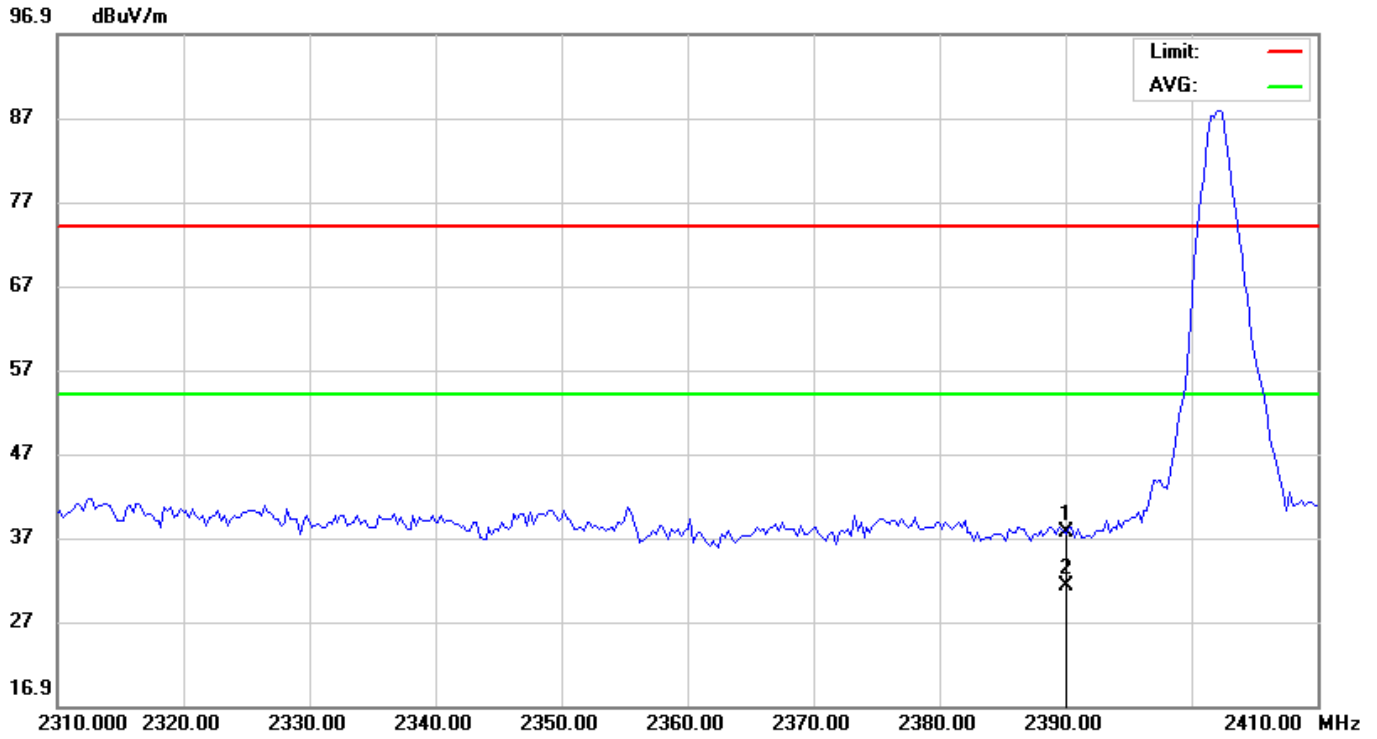
|                         |                    |               |                    |
|-------------------------|--------------------|---------------|--------------------|
| EUT:                    | Wireless headphone | M/N:          | PICKov TS816B SW   |
| Mode:                   | GFSK-CH0           | Polarization: | Horizontal         |
| Tested by:              | SKY(Engineer)      | Power:        | DC 3.7V by Battery |
| Temperature: / Humidity | 24°C / 54%         | Test date:    | 2016-11-10         |



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | cm             | degree       | Comment |
| 1   |     | 2389.500 | 47.01         | -8.43          | 38.58       | 74.00  | -35.42 | peak           |              |         |
| 2   | *   | 2389.500 | 40.03         | -8.43          | 31.60       | 54.00  | -22.40 | AVG            |              |         |

\*:Maximum data    x:Over limit    !:over margin

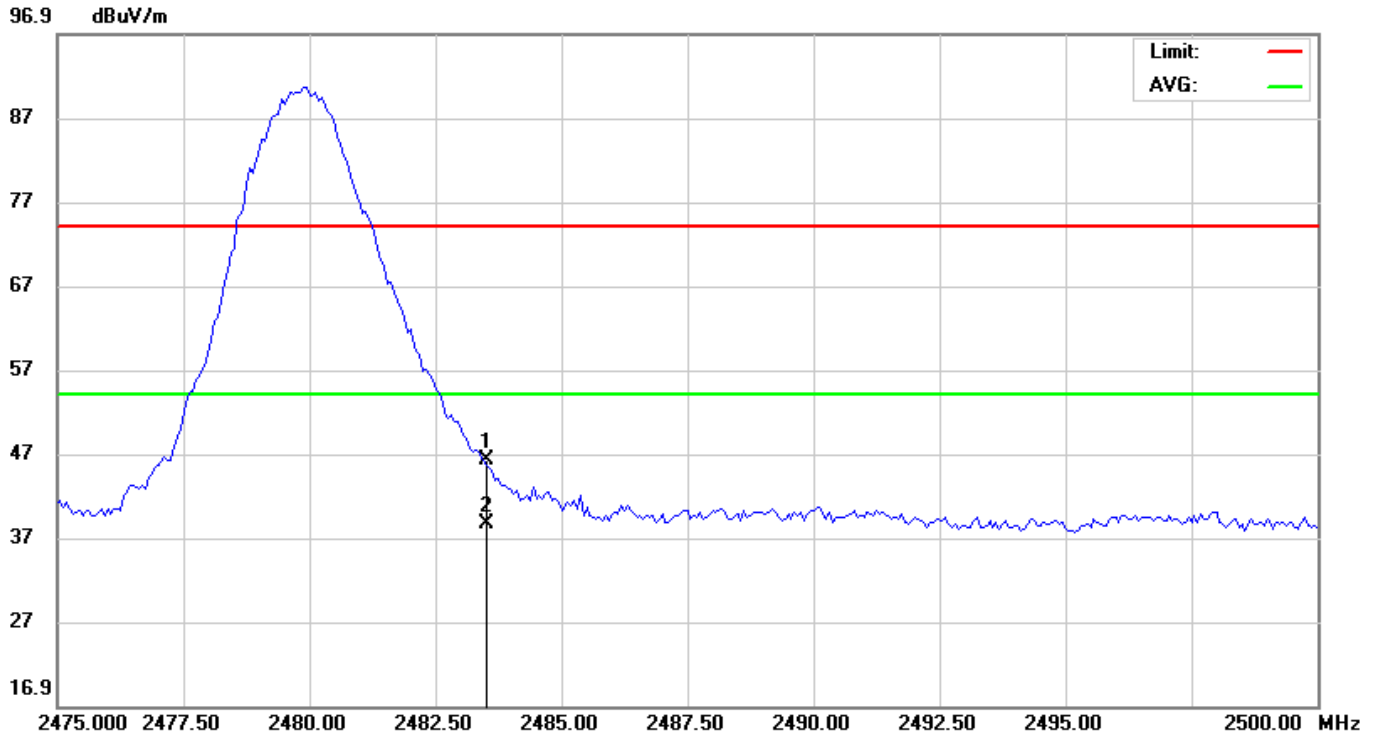
|                         |                    |               |                    |
|-------------------------|--------------------|---------------|--------------------|
| EUT:                    | Wireless headphone | M/N:          | PICKov TS816B SW   |
| Mode:                   | GFSK-CH0           | Polarization: | Vertical           |
| Tested by:              | SKY(Engineer)      | Power:        | DC 3.7V by Battery |
| Temperature: / Humidity | 24°C / 54%         | Test date:    | 2016-11-10         |



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | cm             | degree       | Comment |
| 1   |     | 2390.000 | 46.01         | -8.43          | 37.58       | 74.00  | -36.42 |                |              | peak    |
| 2   | *   | 2390.000 | 39.58         | -8.43          | 31.15       | 54.00  | -22.85 |                |              | AVG     |

\*:Maximum data    x:Over limit    !:over margin

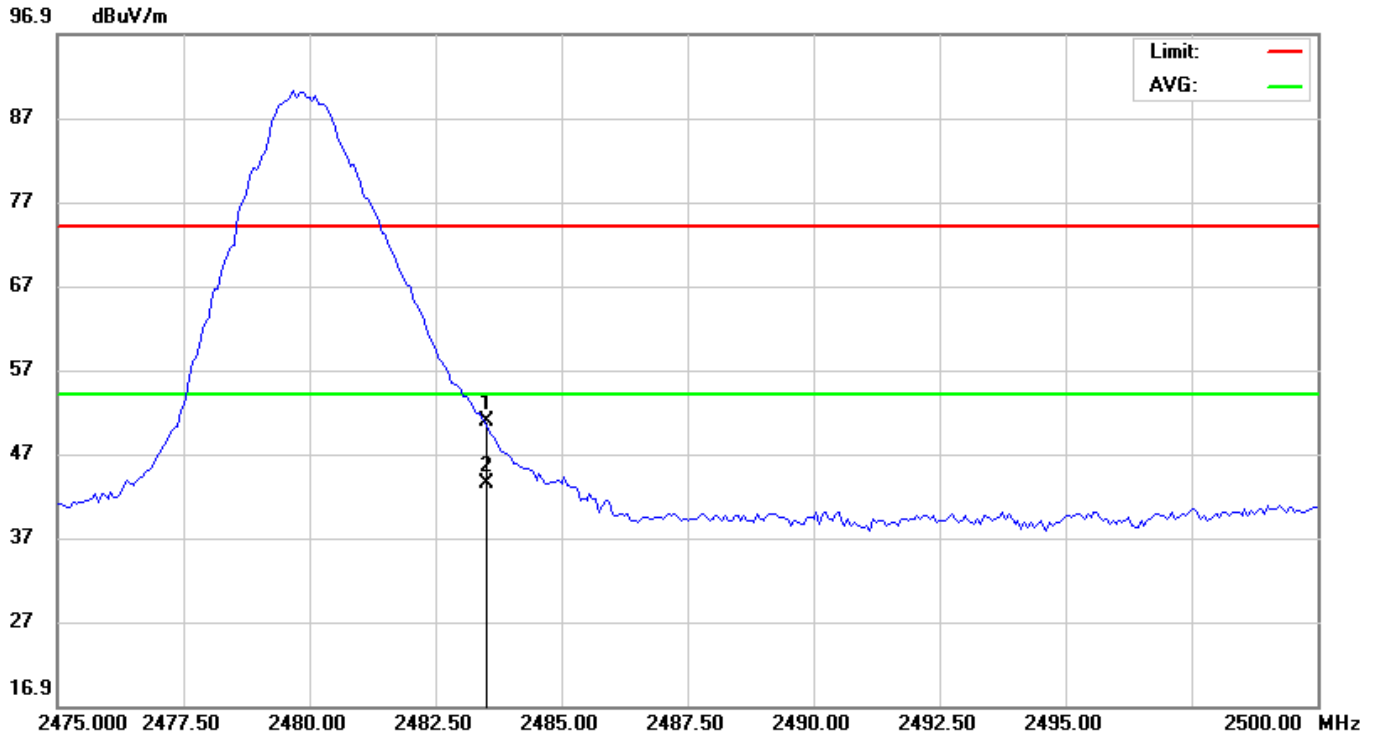
|                         |                    |               |                    |
|-------------------------|--------------------|---------------|--------------------|
| EUT:                    | Wireless headphone | M/N:          | PICKov TS816B SW   |
| Mode:                   | GFSK-CH78          | Polarization: | Horizontal         |
| Tested by:              | SKY(Engineer)      | Power:        | DC 3.7V by Battery |
| Temperature: / Humidity | 24°C / 54%         | Test date:    | 2016-11-10         |



| No. | Mk. | Freq.    | Reading | Correct | Measure- | Limit  | Over   | Antenna | Table  |         |
|-----|-----|----------|---------|---------|----------|--------|--------|---------|--------|---------|
|     |     | MHz      | Level   | Factor  | ment     |        |        | Height  | Degree |         |
|     |     |          | dBuV    | dB      | dBuV/m   | dBuV/m | dB     | cm      | degree | Comment |
| 1   |     | 2483.500 | 54.50   | -8.29   | 46.21    | 74.00  | -27.79 | peak    |        |         |
| 2   | *   | 2483.500 | 46.80   | -8.29   | 38.51    | 54.00  | -15.49 | AVG     |        |         |

\*:Maximum data    x:Over limit    !:over margin

|                         |                    |               |                    |
|-------------------------|--------------------|---------------|--------------------|
| EUT:                    | Wireless headphone | M/N:          | PICKov TS816B SW   |
| Mode:                   | GFSK-CH78          | Polarization: | Vertical           |
| Tested by:              | SKY(Engineer)      | Power:        | DC 3.7V by Battery |
| Temperature: / Humidity | 24°C / 54%         | Test date:    | 2016-11-10         |



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |        |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|--------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector       | cm           | degree |
| 1   |     | 2483.500 | 59.01         | -8.29          | 50.72       | 74.00  | -23.28 | peak           |              |        |
| 2   | *   | 2483.500 | 51.60         | -8.29          | 43.31       | 54.00  | -10.69 | AVG            |              |        |

\*:Maximum data    x:Over limit    l:over margin

End of the Report