



FCC ID: 2AR5RRMX44BT  
Report No.: T210713N01-RP1-1

Ref. No.: T200610N03-RP1-1

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Rev.: 00

**FCC 47 CFR PART 15 SUBPART C AND ANSI C63.10: 2013  
TEST REPORT  
( Class II Permissive Change Report )  
For**

**DJ MIXER**

**Model: RMX-44 BT**

**Data Applies To: N/A**

**Brand Name: RELOOP**

Issued for

**Global Distribution GmbH & Co. KG  
Schuckertstr. 28 , 48153 Muenster , Germany**

Issued By

**Compliance Certification Services Inc.**

**Tainan Lab.**

**No.8, Jiucengling, Xinhua Dist.,  
Tainan City, Taiwan**

**Issued Date: September 24, 2021**

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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**REVISION HISTORY**

| Rev. | Issue Date         | Revisions                     | Effect Page | Revised By |
|------|--------------------|-------------------------------|-------------|------------|
| 00   | September 24, 2021 | See the following note rev.00 | ALL         | Gina Lin   |
|      |                    |                               |             |            |
|      |                    |                               |             |            |
|      |                    |                               |             |            |

**Note:**

※ Rev.00 Issue Date: September 24, 2021  
Revised Class II Permissive Change Report and the description is shown in  
page 7. (3.2 DESCRIPTION OF CLASS II CHANGE)

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## 1. TEST REPORT CERTIFICATION

|                             |   |                                                                                             |
|-----------------------------|---|---------------------------------------------------------------------------------------------|
| <b>Applicant</b>            | : | <b>Global Distribution GmbH &amp; Co. KG</b><br>Schuckertstr. 28 , 48153 Muenster , Germany |
| <b>Manufacturer</b>         | : | <b>Global Distribution GmbH &amp; Co. KG</b><br>Schuckertstr. 28 , 48153 Muenster , Germany |
| <b>Equipment Under Test</b> | : | DJ MIXER                                                                                    |
| <b>Model Number</b>         | : | RMX-44 BT                                                                                   |
| <b>Data Applies To</b>      | : | N/A                                                                                         |
| <b>Brand Name</b>           | : | RELOOP                                                                                      |
| <b>Date of Test</b>         | : | July 21, 2021                                                                               |

| APPLICABLE STANDARD                                                                                                                                     |             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| STANDARD                                                                                                                                                | TEST RESULT |
| FCC Part 15 Subpart C AND<br>ANSI C63.10: 2013                                                                                                          | PASS        |
| Statements of Conformity                                                                                                                                |             |
| Determining compliance shall be based on the results of the compliance measurement,<br>not taking into account measurement instrumentation uncertainty. |             |

### We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in **ANSI C63.10: 2013** and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207, 15.209, 15.247.

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

*Approved by:*



**Eric Huang**  
Section Manager

## 2. TEST RESULT SUMMARY

| FCC Standard Section | Report Section | Test Item                        | Result |
|----------------------|----------------|----------------------------------|--------|
| 15.203               | 3              | ANTENNA REQUIREMENT              | Pass   |
| 15.247(a)(1)         | -              | 20dB BANDWIDTH                   | -      |
| 15.247(b)(1)         | -              | MAXIMUM PEAK OUTPUT POWER        | -      |
| 15.247(a)(1)         | -              | HOPPING CHANNEL SEPARATION       | -      |
| 15.247(a)(1)(iii)    | -              | NUMBER OF HOPPING FREQUENCY USED | -      |
| 15.247(a)(1)(iii)    | -              | DWELL TIME                       | -      |
| -                    | -              | DUTY CYCLE                       | -      |
| 15.247(d)            | -              | CONDUCTED SPURIOUS EMISSION      | -      |
| 15.247(d)            | 8.1            | RADIATED EMISSIONS               | Pass   |
| 15.207(a)            | -              | POWERLINE CONDUCTED EMISSIONS    | -      |

### 3. EUT DESCRIPTION

#### 3.1 DESCRIPTION OF EUT & POWER

|                     |                                                                              |
|---------------------|------------------------------------------------------------------------------|
| Product             | DJ MIXER                                                                     |
| Model Number        | RMX-44 BT                                                                    |
| Data Applies To     | N/A                                                                          |
| Brand Name          | RELOOP                                                                       |
| Identify Number     | T210713N01                                                                   |
| Received Date       | July 13, 2021                                                                |
| Reported Date       | August 27, 2021                                                              |
| Frequency Range     | 2402MHz ~ 2480MHz                                                            |
| Transmit Peak Power | GFSK : 0.47dBm / 1.11mW<br>8DPSK: 1.39dBm / 1.38mW                           |
| Channel Spacing     | 1MHz                                                                         |
| Transmit Data Rate  | GFSK Mode : 1 Mbps<br>4/πDQPSK Mode : 2-3Mbps<br>8DPSK Mode : 24Mbps         |
| Modulation Type     | GFSK、π/4DQPSK、8DPSK                                                          |
| Number of Channels  | 79 Channels                                                                  |
| EUT Power Supply    | AC 100-240V, 0.8A, 50/60Hz                                                   |
| Antenna Type        | Manufacturer: Sunitec<br>Type: PCB Antenna<br>Model: BM20A<br>Gain: 1.78 dBi |
| Firmware Version    | V1.0                                                                         |
| Hardware Version    | V1.0                                                                         |
| Software Version    | V1.0                                                                         |

**Power Adapter :**

| No. | Manufacturer                       | Model No.        | Power Input                | Power Output          |
|-----|------------------------------------|------------------|----------------------------|-----------------------|
| 1   | Hon-Kwang Electric Co., Ltd.       | HK-CW-120A200-CP | AC 100-240V, 50/60Hz, 0.8A | DC 12.0V, 2.0A, 24.0W |
| 2   | SHENZHEN FUJIA APPLIANCE CO., LTD. | FJ-SW1202000N    | AC 100-240V, 50/60Hz, 0.6A | DC 12V, 2.0A, 24.0W   |

**Remark:**

1. The sample selected for test was production product and was provided by manufacturer.
2. This submittal(s) (test report) is intended for **FCC ID: 2AR5RRMX44BT** filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.
3. For more details, please refer to the User's manual of the EUT.

### 3.2 DESCRIPTION OF CLASS II CHANGE

The major change filed under this application is:

Updated RAD (Below 1GHz) test data for verification test of new adapter (model: FJ-SW1202000N).

Since the above changes do not influence the RF characteristics, after evaluated, the testing items of the data could be used and showed as original application document reports (report number: T200610N03-RP1-1).

## 4. DESCRIPTION OF TEST MODES

The EUT had been tested under operating condition.

There are three channels have been tested as following :

| Channel | Frequency (MHz) |
|---------|-----------------|
| Low     | 2402            |
| Middle  | 2441            |
| High    | 2480            |

### Radiated Emission Test (Below 1 GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

Normal Operation

### Radiated Emission Test (Above 1 GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

| Tested Channel | Modulation Technology | Modulation Type | Packet Type |
|----------------|-----------------------|-----------------|-------------|
| Low, Mid, High | FHSS                  | GFSK            | DH5         |
| Low, Mid, High | FHSS                  | 8-DPSK          | 3-DH5       |

**Bandedge Measurement :**

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

| Tested Channel | Modulation Technology | Modulation Type | Packet Type |
|----------------|-----------------------|-----------------|-------------|
| Low, High      | FHSS                  | GFSK            | DH5         |
| Low, High      | FHSS                  | 8-DPSK          | 3-DH5       |

**Antenna Port Conducted Measurement :**

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

| Tested Channel | Modulation Technology | Modulation Type | Packet Type |
|----------------|-----------------------|-----------------|-------------|
| Low, Mid, High | FHSS                  | GFSK            | DH5         |
| Low, Mid, High | FHSS                  | 8-DPSK          | 3-DH5       |

## **5. TEST METHODOLOGY**

The tests documented in this report were performed in accordance with ANSI C63.10 : 2013 and FCC CFR 47 15.207, 15.209 and 15.247.

## 6. FACILITIES AND ACCREDITATIONS

### 6.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

☒ No.8, Jiucengling, Xinhua Dist., Tainan City 712, Taiwan (R.O.C.)

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

### 6.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

### 6.3 LABORATORY ACCREDITATIONS LISTINGS

The test facilities used to perform radiated and conducted emissions tests are accredited by Taiwan Accreditation Foundation for the specific scope of accreditation under Lab Code: 1109 to perform Electromagnetic Interference tests according to FCC PART 15 AND CISPR 22 requirements. No part of this report may be used to claim or imply product endorsement by TAF or any agency of the Government. In addition, the test facilities are listed with Federal Communications Commission (registration no: TW1109).

## 6.4 TABLE OF ACCREDITATIONS AND LISTINGS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

|               |     |
|---------------|-----|
| <b>Taiwan</b> | TAF |
|---------------|-----|

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

|                |                                |
|----------------|--------------------------------|
| <b>Canada</b>  | Industry Canada (ISED#: 2324H) |
| <b>Germany</b> | TUV NORD                       |
| <b>Taiwan</b>  | BSMI                           |
| <b>USA</b>     | FCC                            |
| <b>Japan</b>   | VCCI                           |

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.ccsrf.com>

## 6.5 MEASUREMENT EQUIPMENT USED

| Chamber 966 Room (Radiation Test) |                                         |                 |                      |                  |                 |
|-----------------------------------|-----------------------------------------|-----------------|----------------------|------------------|-----------------|
| Name of Equipment                 | Manufacturer                            | Model           | Serial Number        | Calibration Date | Calibration Due |
| Active Loop Antenna               | ETS-LINDREN                             | 6502            | 8905-2356            | 08/02/2019       | 08/01/2021      |
| Bilog Antenna With 6dB Attenuator | SUNOL SCIENCES & EMCI                   | JB1 & AT-N0681  | A070506-1 & AT-N0681 | 09/14/2020       | 09/13/2021      |
| Cable                             | Suhner                                  | SUCOFLEX104P EA | 20520/4PEA&O6        | 01/29/2021       | 01/28/2022      |
| EMI Test Receiver                 | R&S                                     | ESCI            | 100960               | 02/05/2021       | 02/04/2022      |
| Type N coaxial cable              | Suhner                                  | CHA9513         | 6                    | 01/19/2021       | 01/18/2022      |
| Software                          | Excel(ccs-o6-2020 v1.1) , e3(v6.101222) |                 |                      |                  |                 |

## 6.6 MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

## 6.7 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

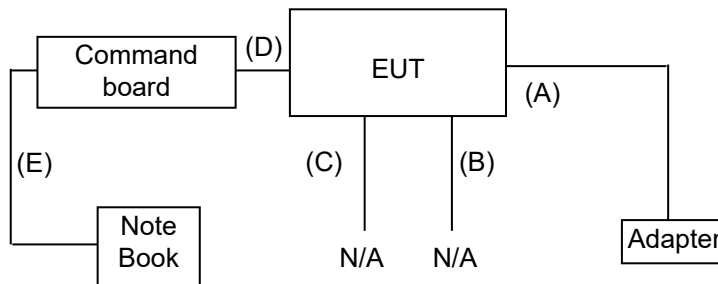
| PARAMETER                                               | UNCERTAINTY        |
|---------------------------------------------------------|--------------------|
| Radiated Emission, 30 to 200 MHz<br>Test Site : CB966   | $\pm 3.1\text{dB}$ |
| Radiated Emission, 200 to 1000 MHz<br>Test Site : CB966 | $\pm 2.7\text{dB}$ |
| Radiated Emission, 1 to 6 GHz                           | $\pm 2.7\text{dB}$ |
| Radiated Emission, 6 to 18 GHz                          | $\pm 2.7\text{dB}$ |
| Radiated Emission, 18 to 26.5 GHz                       | $\pm 2.7\text{dB}$ |
| Radiated Emission, 26 to 40 GHz                         | $\pm 3.7\text{dB}$ |
| Power Line Conducted Emission                           | $\pm 2.0\text{dB}$ |

This measurement uncertainty is confidence of approximately 95%,  $k=2$

## 7. SETUP OF EQUIPMENT UNDER TEST

### 7.1 SETUP CONFIGURATION OF EUT

RF



### 7.2 SUPPORT EQUIPMENT

For RF test

| No. | Product   | Manufacturer | Model No. | Certify No. | Signal cable             |
|-----|-----------|--------------|-----------|-------------|--------------------------|
| 1   | Note Book | Acer         | AS 3830TG | DoC         | Power cable, unshd, 1.6m |

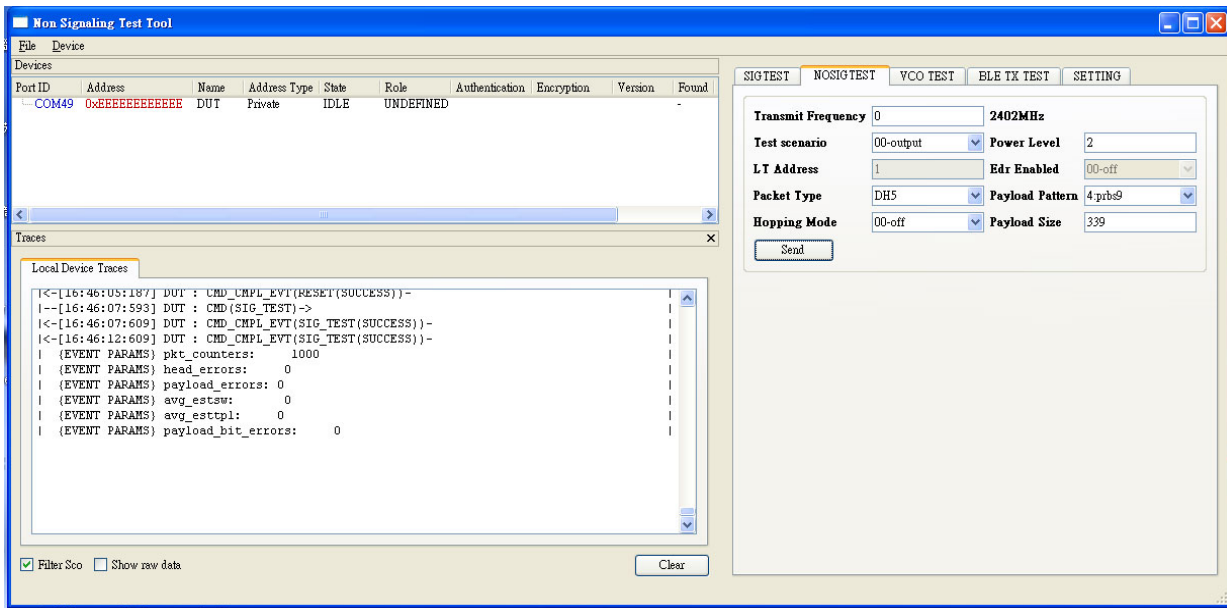
| No. | Signal cable description |                                   |
|-----|--------------------------|-----------------------------------|
| A   | Power                    | Unshielded, 1.5m 1 pcs.           |
| B   | MIC                      | Unshielded, 0.8m 2 pcs.           |
| C   | Audio                    | Unshielded, 1.0m 13 pcs.          |
| D   | Command                  | Unshielded, 0.3m 1 pcs.           |
| E   | USB                      | Shielded, 1.7m 1 pcs with 1 core. |

**Note:**

- 1) All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2) Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3) shd. = shielded; unshd. = unshielded

**EUT OPERATING CONDITION****RF Setup**

1. Set up all computers like the setup diagram.
2. The “BQB” software was used for testing.
3. Choose “Device” → “Add Platform Device” → “Auto Detect” → “Connect”.

**TX Mode:****BT1.0****NOSIG TEST**

Transmit Frequency:0 (0,39,78)

Packet Type:DH5 (DH1,DH3,DH5)

Send

**BT3.0****NOSIG TEST**

Transmit Frequency:0 (0,39,78)

Packet Type:DH5\_3 (DH1-3,DH3\_3,DH5\_3)

Send

**BT4.0****BLE TX TEST**

Transmit Frequency:0 (0,20,39)

Send

**RX Mode:****BLE TX TEST**

Receiver Frequency:0 (0,20,39)

4. All of the function are under run.
5. Start test.

## 8. APPLICABLE LIMITS AND TEST RESULTS

### 8.1 RADIATED EMISSIONS

#### 8.8.1 TRANSMITTER RADIATED SUPURIOUS EMSSIONS

##### LIMITS

§ 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz                        | MHz                   | MHz             | GHz              |
|----------------------------|-----------------------|-----------------|------------------|
| 0.090 - 0.110              | 16.42 - 16.423        | 399.9 - 410     | 4.5 - 5.15       |
| <sup>1</sup> 0.495 - 0.505 | 16.69475 - 16.69525   | 608 - 614       | 5.35 - 5.46      |
| 2.1735 - 2.1905            | 16.80425 - 16.80475   | 960 - 1240      | 7.25 - 7.75      |
| 4.125 - 4.128              | 25.5 - 25.67          | 1300 - 1427     | 8.025 - 8.5      |
| 4.17725 - 4.17775          | 37.5 - 38.25          | 1435 - 1626.5   | 9.0 - 9.2        |
| 4.20725 - 4.20775          | 73 - 74.6             | 1645.5 - 1646.5 | 9.3 - 9.5        |
| 6.215 - 6.218              | 74.8 - 75.2           | 1660 - 1710     | 10.6 - 12.7      |
| 6.26775 - 6.26825          | 108 - 121.94          | 1718.8 - 1722.2 | 13.25 - 13.4     |
| 6.31175 - 6.31225          | 123 - 138             | 2200 - 2300     | 14.47 - 14.5     |
| 8.291 - 8.294              | 149.9 - 150.05        | 2310 - 2390     | 15.35 - 16.2     |
| 8.362 - 8.366              | 156.52475 - 156.52525 | 2483.5 - 2500   | 17.7 - 21.4      |
| 8.37625 - 8.38675          | 156.7 - 156.9         | 2655 - 2900     | 22.01 - 23.12    |
| 8.41425 - 8.41475          | 162.0125 - 167.17     | 3260 - 3267     | 23.6 - 24.0      |
| 12.29 - 12.293             | 167.72 - 173.2        | 3332 - 3339     | 31.2 - 31.8      |
| 12.51975 - 12.52025        | 240 - 285             | 3345.8 - 3338   | 36.43 - 36.5     |
| 12.57675 - 12.57725        | 322 - 335.4           | 3600 - 4400     | ( <sup>2</sup> ) |
| 13.36 - 13.41              |                       |                 |                  |

<sup>1</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

<sup>2</sup> Above 38.6

§ 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

§ 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<br>(MHz) | Field Strength<br>(microvolts/meter) | Measurement Distance<br>(meters) |
|--------------------|--------------------------------------|----------------------------------|
| 30 - 88            | 100 **                               | 3                                |
| 88 - 216           | 150 **                               | 3                                |
| 216 - 960          | 200 **                               | 3                                |
| Above 960          | 500                                  | 3                                |

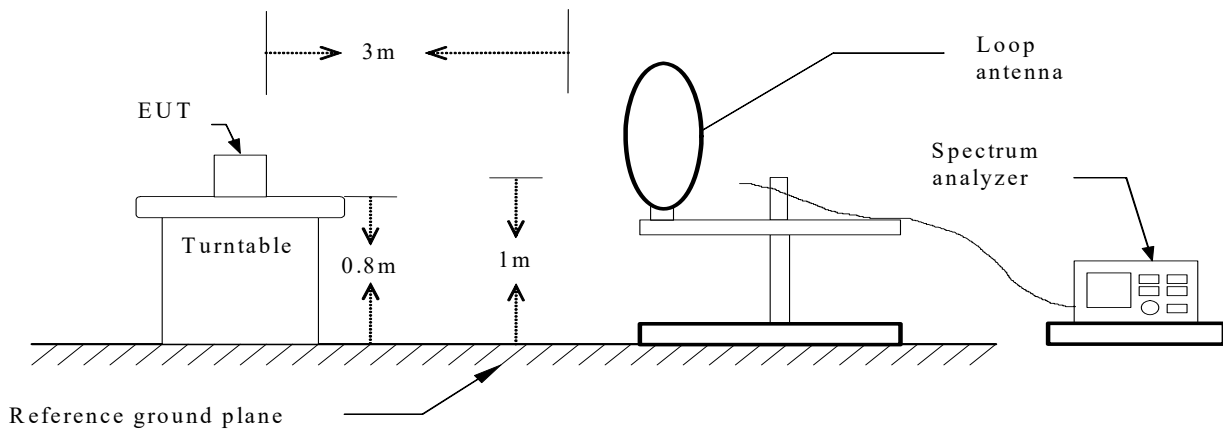
\*\* Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz, However, operation within these frequency bands is permitted under other sections of this Part, e-g, Sections 15.231 and 15.241.

§ 15.209 (b) In the emission table above, the tighter limit applies at the band edges.

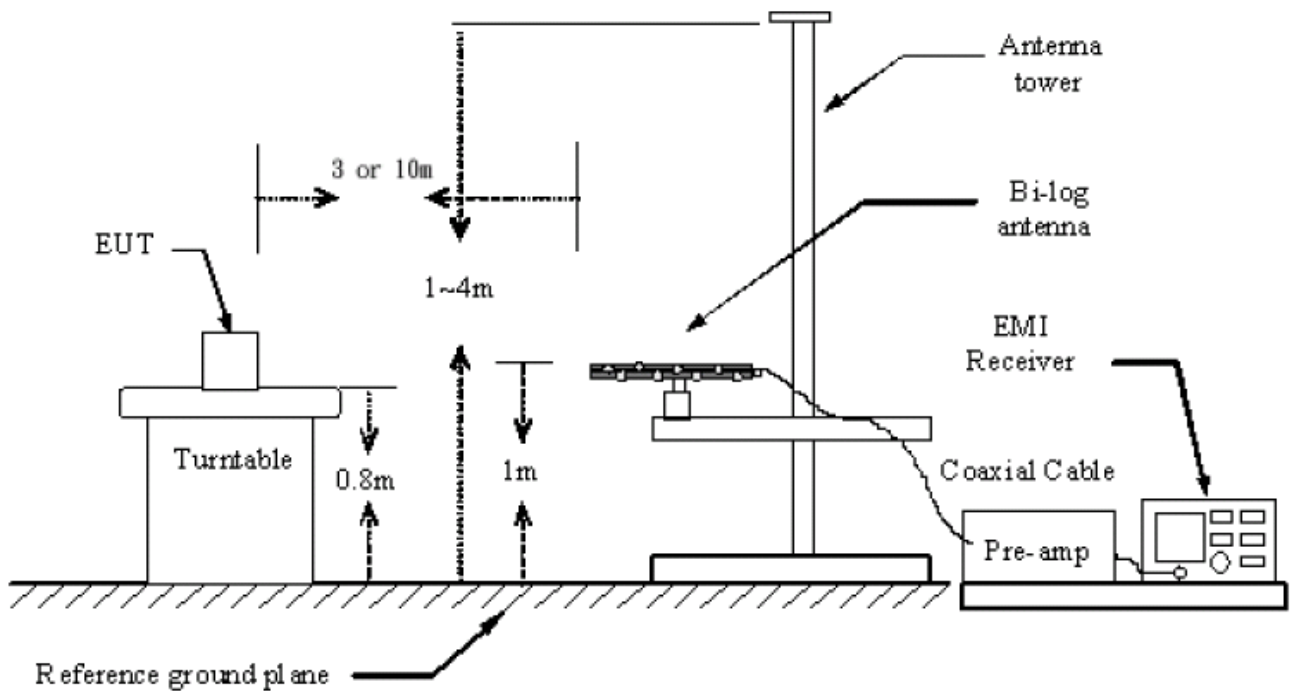
## TEST SETUP

The diagram below shows the test setup that is utilized to make the measurements for emission from below 1GHz.

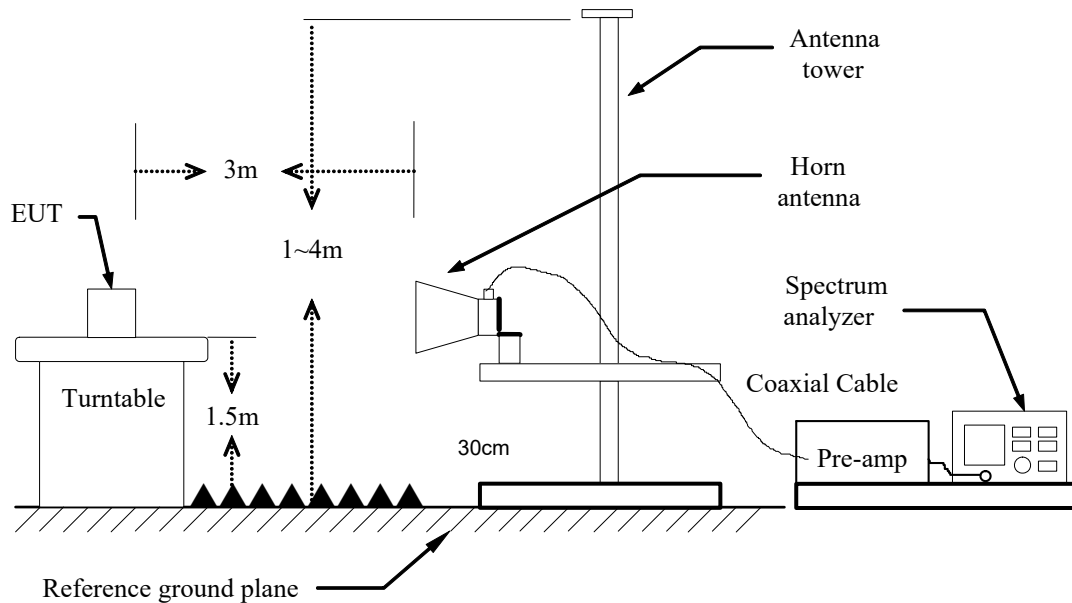
### 9kHz ~ 30MHz



### 30MHz ~ 1GHz



The diagram below shows the test setup that is utilized to make the measurements for emission above 1GHz.



## TEST PROCEDURE

- The EUT was placed on the top of a rotating table 0.8/1.5 meters above the ground at a 10/3 meter open site/chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- While measuring the radiated emission below 1GHz, the EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. While measuring the radiated emission above 1GHz, the EUT was set 3 or 10 meters away from the interference-receiving antenna.
- The antenna is a broadband antenna, and its 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 polarization of the antenna are set to make the measurement.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10 dB 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 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Note :

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 510 Hz for Average detection (AV) at frequency above 1GHz.

## 8.8.2 WORST-CASE RADIATED EMISSION BELOW 1 GHz

### BELOW 1 GHz (9kHz ~ 30MHz)

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

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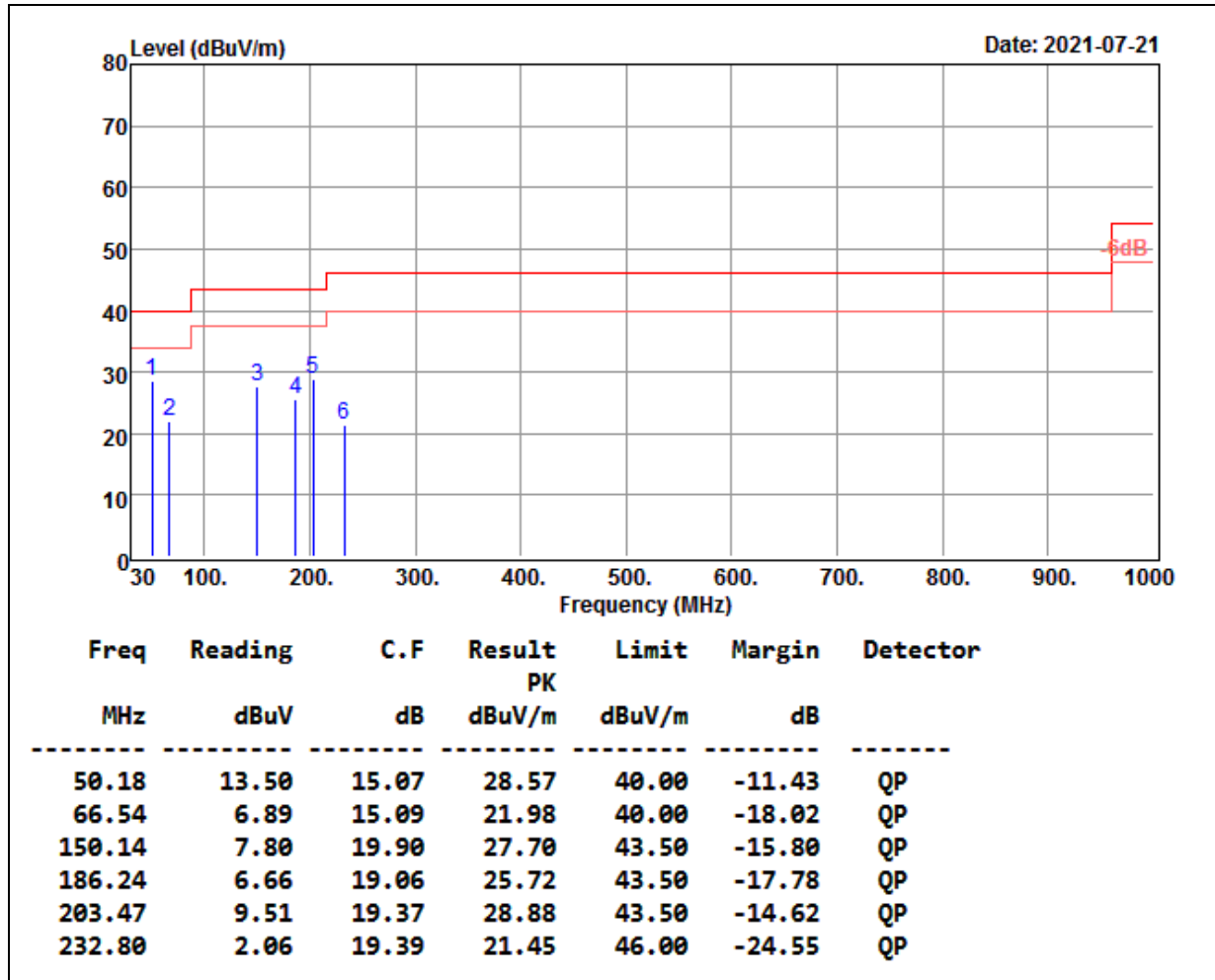
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**BELOW 1 GHz (30MHz ~ 1GHz)**

|                     |           |                            |             |
|---------------------|-----------|----------------------------|-------------|
| <b>Product Name</b> | DJ MIXER  | <b>Test Date</b>           | 2021/07/21  |
| <b>Model Name</b>   | RMX-44 BT | <b>Test By</b>             | Ted Huang   |
| <b>Test Mode</b>    | TX        | <b>Temp &amp; Humidity</b> | 26.2°C, 58% |

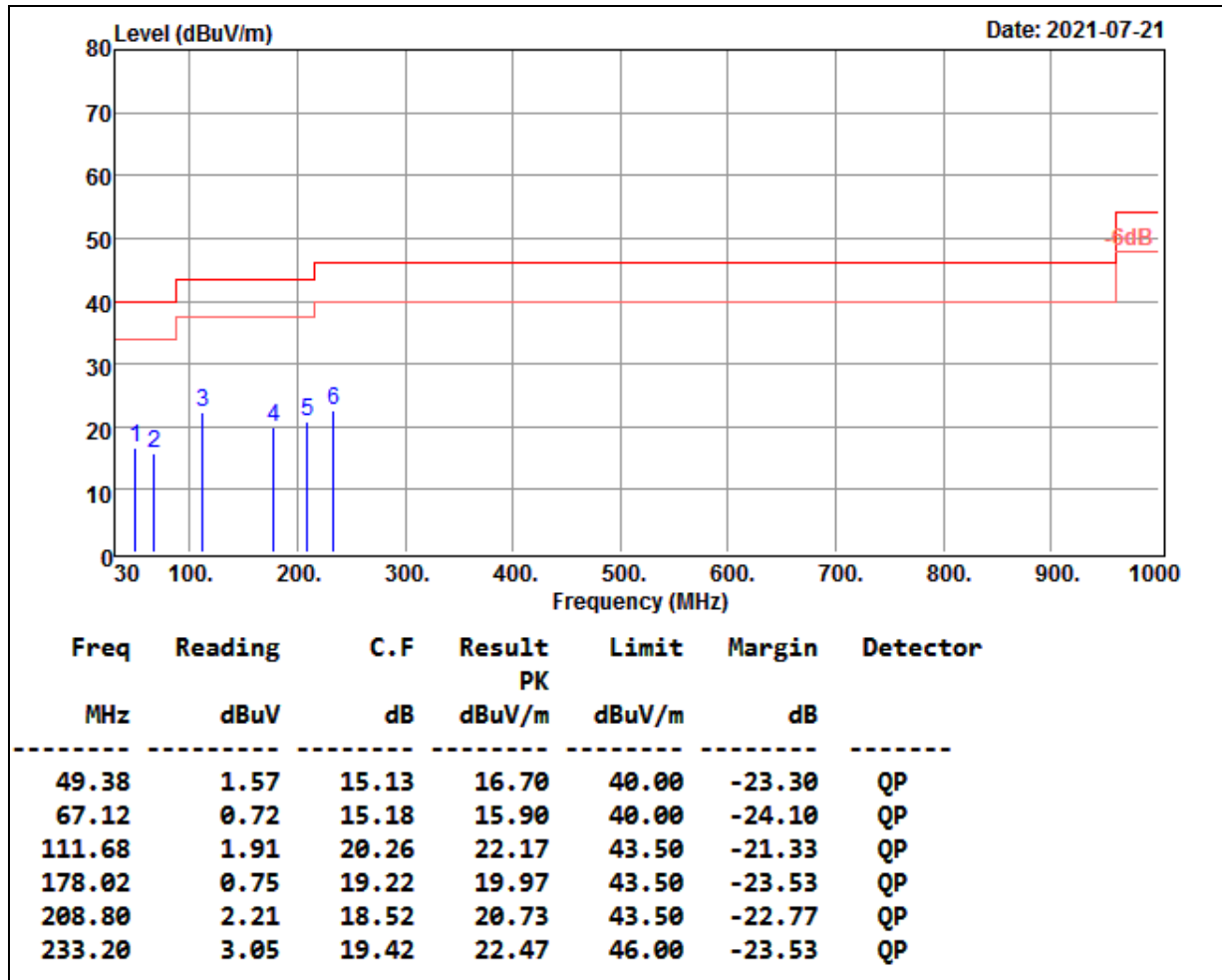
Vertical

**Remark:**

1. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).
2. Radiated emissions measured were made with an instrument using peak/quasi-peak detector mode.
3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
4. Margin (dB) = Remark result (dBuV/m) – Quasi-peak limit (dBuV/m).

|              |           |                 |             |
|--------------|-----------|-----------------|-------------|
| Product Name | DJ MIXER  | Test Date       | 2021/07/21  |
| Model Name   | RMX-44 BT | Test By         | Ted Huang   |
| Test Mode    | TX        | Temp & Humidity | 26.2°C, 58% |

## Horizontal



## Remark:

1. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).
2. Radiated emissions measured were made with an instrument using peak/quasi-peak detector mode.
3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
4. Margin (dB) = Remark result (dBuV/m) – Quasi-peak limit (dBuV/m).

**=== END of Report ===**