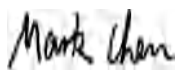


# Test Report

**Applicant** : PEAG, LLC dba JLab Audio  
**Address** : 5927 LANDAU CT, Carlsbad, CA 92008, United States  
**Product Name** : Wireless Speaker  
**Brand Mark** :   
**Model No.** : Epic Party  
**Series model** : N/A  
**FCC ID** : 2AHYV-EPICSPB  
**Report Number** : BLA-EMC-202601-A2502  
**Date of Receipt** : Jan. 06, 2026  
**Date of Test** : Jan. 06, 2026 to Jan. 27, 2026  
**Test Standard** : 47 CFR Part 15, Subpart C 15.247  
**Test Result** : Pass

Compiled by:



Review by:



Approved by:



Issued Date: Apr. 27, 2026



## BlueAsia Technical Services(Shenzhen) Co.,Ltd.

Address: No.41, South of Beihuan Road, Shangwu Community, Shiyan  
Subdistrict, Bao'an District, Shenzhen, Guangdong, China



*The test report is effective only with both signature and specialized stamp and The result(s) shown in this report refer only to the sample(s) tested. Without written approval of BlueAsia, this report can't be reproduced except in full. The results described in this report do not represent the quality or characteristics of the sampled batch, nor do they represent any similar or identical products that are not explicitly stated.*

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## Revise Record

| Version No. | Date          | Description |
|-------------|---------------|-------------|
| 01          | Apr. 27, 2026 | Original    |
|             |               |             |
|             |               |             |
|             |               |             |

# 1 General information

## 1.1 General information

|              |                                                                                                                           |
|--------------|---------------------------------------------------------------------------------------------------------------------------|
| Applicant    | PEAG, LLC dba JLab Audio                                                                                                  |
| Address      | 5927 LANDAU CT, Carlsbad, CA 92008, United States                                                                         |
| Manufacturer | GuangDong Simpreal Intelligent Technology Co., Ltd                                                                        |
| Address      | Room 2408, JiaHong ZhenXing DaSha, DongGuan Avenue #13, DongCheng District, DongGuan City, GuangDong Province, P.R. China |
| Factory      | GuangDong Simpreal Intelligent Technology Co., Ltd                                                                        |
| Address      | Room 2408, JiaHong ZhenXing DaSha, DongGuan Avenue #13, DongCheng District, DongGuan City, GuangDong Province, P.R. China |

## 1.2 General description of EUT

|                     |                                |                                                                                                                                                        |
|---------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product name        | Wireless Speaker               |                                                                                                                                                        |
| Model no.           | Epic Party                     |                                                                                                                                                        |
| Operation Frequency | 2402MHz-2480MHz                |                                                                                                                                                        |
| Modulation Type     | GFSK, $\pi/4$ -DQPSK, 8DPSK    |                                                                                                                                                        |
| Rate data           | 1Mbps, 2Mbps, 3Mbps            |                                                                                                                                                        |
| Channel Spacing     | 1MHz                           |                                                                                                                                                        |
| Number of Channels  | 79                             |                                                                                                                                                        |
| Antenna Type        | PCB antenna                    |                                                                                                                                                        |
| Antenna Gain        | 1.62dBi (Provided by customer) |                                                                                                                                                        |
| Power supply        | Adapter 1                      | MODEL: MX45WPD-30-UZ<br>INPUT: AC 100-240V, 50/60Hz, 1.5A<br>OUTPUT: DC 5.0V, 3.0A/DC 9.0V, 3.0A/DC 12.0V, 2.5A/DC 15.0V, 2.0A/DC 20.0V, 1.5A (Max30W) |
|                     | Adapter 2                      | MODEL: FX618UZ<br>INPUT: AC 100-240V, 50/60Hz, 2.0A<br>OUTPUT: DC 5.0V, 3.0A/DC 9.0V, 3.0A/DC 12.0V, 2.5A/DC 15.0V, 2.0A/DC 20.0V, 1.5A (Max30W)       |
|                     | Battery DC 11.1V               |                                                                                                                                                        |

|                  |           |
|------------------|-----------|
| Test Voltage     | DC 11.1V  |
| Hardware Version | PA2632-MD |
| Software Version | V1.0      |

*Note: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.*

## 2 Test summary

| No. | Test item                                             | FCC standard             | Test Method(Clause)                            | Result |
|-----|-------------------------------------------------------|--------------------------|------------------------------------------------|--------|
| 1   | Antenna Requirement                                   | §15.203                  | N/A                                            | Pass   |
| 2   | Conducted Emissions at AC Power Line (150kHz-30MHz)   | §15.207                  | ANSI C63.10-2020+Cor.1-2023 Clause 6.2         | Pass   |
| 3   | Conducted Peak Output Power                           | § 15.247 (b)(1)          | ANSI C63.10-2020+Cor.1-2023 Clause 7.8.5       | Pass   |
| 4   | 20dB Bandwidth                                        | § 15.247 (a)(1)          | ANSI C63.10-2020+Cor.1-2023 Clause 6.9.2       | Pass   |
| 5   | Conducted Band Edges Measurement                      | § 15.247 (d)             | ANSI C63.10-2020+Cor.1-2023 Clause 7.8.6       | Pass   |
| 6   | Conducted Spurious Emissions                          | § 15.247 (d)             | ANSI C63.10-2020+Cor.1-2023 Clause 7.8.8       | Pass   |
| 7   | Carrier Frequencies Separation                        | § 15.247 (a)(1)          | ANSI C63.10-2020+Cor.1-2023 Clause 7.8.2       | Pass   |
| 8   | Hopping Channel Number                                | § 15.247 (a)(1) (iii)    | ANSI C63.10-2020+Cor.1-2023 Clause 7.8.3       | Pass   |
| 9   | Dwell Time                                            | § 15.247 (a)(1) (iii)    | ANSI C63.10-2020+Cor.1-2023 Clause 7.8.4       | Pass   |
| 10  | Radiated Spurious Emissions                           | § 15.247 (d)<br>§ 15209  | ANSI C63.10-2020+Cor.1-2023 Clause 6.4,6.5,6.6 | Pass   |
| 11  | Radiated Emissions which fall in the restricted bands | § 15.247 (d)<br>§ 15.205 | ANSI C63.10-2020+Cor.1-2023 Clause 6.10.5      | Pass   |

### 3 Test Configuration

#### 3.1 Test mode

| Test Mode <sup>Note 1</sup> | Description                                                      |
|-----------------------------|------------------------------------------------------------------|
| TX                          | TM1: Charging+TX                                                 |
|                             | TM2: TX                                                          |
| RX                          | Keep the EUT in receiving mode                                   |
| TX Low channel              | Keep the EUT in continuously transmitting mode in low channel    |
| TX middle channel           | Keep the EUT in continuously transmitting mode in middle channel |
| TX high channel             | Keep the EUT in continuously transmitting mode in high channel   |

*Note 1: The EUT was configured to measure its highest possible emission and/or immunity level. The test modes were adapted according to the operation manual for use; the EUT was operated in the engineering mode <sup>Note 2</sup> to fix the TX or Rx frequency that was for the purpose of the measurements.*

*Note 2: Special software is used. The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.*

| Power level setup in software |            |                 |                    |
|-------------------------------|------------|-----------------|--------------------|
| Test Software Name            | FCC assist |                 |                    |
| Mode                          | Channel    | Frequency (MHz) | Soft Set           |
| TX                            | CH00       | 2402            | TX level : Default |
|                               | CH39       | 2441            |                    |
|                               | CH78       | 2480            |                    |

#### 3.2 Operation Frequency each of channel

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 0       | 2402MHz   | 20      | 2422MHz   | 40      | 2442MHz   | 60      | 2462MHz   |
| 1       | 2403MHz   | 21      | 2423MHz   | 41      | 2443MHz   | 61      | 2463MHz   |
| 2       | 2404MHz   | 22      | 2424MHz   | 42      | 2444MHz   | 62      | 2464MHz   |
| 3       | 2405MHz   | 23      | 2425MHz   | 43      | 2445MHz   | 63      | 2465MHz   |
| 4       | 2406MHz   | 24      | 2426MHz   | 44      | 2446MHz   | 64      | 2466MHz   |

|    |         |    |         |    |         |    |         |
|----|---------|----|---------|----|---------|----|---------|
| 5  | 2407MHz | 25 | 2427MHz | 45 | 2447MHz | 65 | 2467MHz |
| 6  | 2408MHz | 26 | 2428MHz | 46 | 2448MHz | 66 | 2468MHz |
| 7  | 2409MHz | 27 | 2429MHz | 47 | 2449MHz | 67 | 2469MHz |
| 8  | 2410MHz | 28 | 2430MHz | 48 | 2450MHz | 68 | 2470MHz |
| 9  | 2411MHz | 29 | 2431MHz | 49 | 2451MHz | 69 | 2471MHz |
| 10 | 2412MHz | 30 | 2432MHz | 50 | 2452MHz | 70 | 2472MHz |
| 11 | 2413MHz | 31 | 2433MHz | 51 | 2453MHz | 71 | 2473MHz |
| 12 | 2414MHz | 32 | 2434MHz | 52 | 2454MHz | 72 | 2474MHz |
| 13 | 2415MHz | 33 | 2435MHz | 53 | 2455MHz | 73 | 2475MHz |
| 14 | 2416MHz | 34 | 2436MHz | 54 | 2456MHz | 74 | 2476MHz |
| 15 | 2417MHz | 35 | 2437MHz | 55 | 2457MHz | 75 | 2477MHz |
| 16 | 2418MHz | 36 | 2438MHz | 56 | 2458MHz | 76 | 2478MHz |
| 17 | 2419MHz | 37 | 2439MHz | 57 | 2459MHz | 77 | 2479MHz |
| 18 | 2420MHz | 38 | 2440MHz | 58 | 2460MHz | 78 | 2480MHz |
| 19 | 2421MHz | 39 | 2441MHz | 59 | 2461MHz | -- |         |

### 3.3 Test channel

| Channel             | Frequency |
|---------------------|-----------|
| The lowest channel  | 2402MHz   |
| The middle channel  | 2441MHz   |
| The Highest channel | 2480MHz   |

### 3.4 Auxiliary equipment

| Device Type | Manufacturer | Model Name | Serial No. | Remark                             |
|-------------|--------------|------------|------------|------------------------------------|
| PC          | Lenovo       | E460C      | N/A        | From lab<br>(No.BLA-ZC-BS-2022005) |

**Note:**

--" mean no any auxiliary device during testing.

### 3.5 Test environment

| Environment | Temperature | Voltage  |
|-------------|-------------|----------|
| Normal      | 25°C        | DC 11.1V |

## 4 Laboratory information

### 4.1 Laboratory and accreditations

The test facility is recognized, certified, or accredited by the following organizations:

|                             |                                                                                                                  |
|-----------------------------|------------------------------------------------------------------------------------------------------------------|
| Company name:               | BlueAsia Technical Services (Shenzhen) Co.,Ltd.                                                                  |
| Address:                    | No.41, South of Beihuan Road, Shangwu Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China |
| CNAS accredited No.:        | L9788                                                                                                            |
| A2LA Cert. No.:             | 5071.01                                                                                                          |
| FCC Designation No.:        | CN1252                                                                                                           |
| Test Firm Registration No.: | 923526                                                                                                           |
| ISED CAB identifier No.:    | CN0028                                                                                                           |
| Registration No.:           | 24243                                                                                                            |
| Telephone:                  | +86-755-28682673                                                                                                 |
| FAX:                        | +86-755-28682673                                                                                                 |

### 4.2 Measurement uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=1.96$ .

| Parameter                                      | Expanded Uncertainty            |
|------------------------------------------------|---------------------------------|
| Radiated Emission(9kHz-30MHz)                  | $\pm 4.34\text{dB}$             |
| Radiated Emission(30Mz-1000MHz)                | $\pm 4.24\text{dB}$             |
| Radiated Emission(1GHz-18GHz)                  | $\pm 4.68\text{dB}$             |
| AC Power Line Conducted Emission(150kHz-30MHz) | $\pm 3.45\text{dB}$             |
| Occupied Channel Bandwidth                     | $\pm 5\%$                       |
| RF output power, conducted                     | $\pm 1.5\text{ dB}$             |
| Power Spectral Density, conducted              | $\pm 3.0\text{ dB}$             |
| Unwanted Emissions, conducted                  | $\pm 3.0\text{ dB}$             |
| Temperature                                    | $\pm 3\text{ }^{\circ}\text{C}$ |
| Supply voltages                                | $\pm 3\%$                       |
| Time                                           | $\pm 5\%$                       |

## 5 Test equipment

### Radiated Spurious Emissions (Below 1GHz)

| Equipment      | Name              | Model            | Manufacture | S/N    | Cal. Date  | Due. Date  |
|----------------|-------------------|------------------|-------------|--------|------------|------------|
| BLA-EMC-002-01 | Anechoic chamber  | 9*6*6 chamber    | SKET        | N/A    | 2024/3/27  | 2027/3/26  |
| BLA-EMC-002-02 | Control room      | 966 control room | SKET        | N/A    | 2024/3/27  | 2027/3/26  |
| BLA-EMC-009    | EMI receiver      | ESR7             | R&S         | 101199 | 2025/08/05 | 2026/08/04 |
| BLA-EMC-043    | Loop antenna      | FMZB1519B        | Schwarzbeck | 00102  | 2024/06/29 | 2026/06/28 |
| BLA-EMC-065    | Broadband antenna | VULB9168         | Schwarzbeck | 01065P | 2025/06/09 | 2026/06/08 |
| BLA-XC-01      | Coaxial Cable     | N/A              | BlueAsia    | V01    | N/A        | N/A        |
| BLA-XC-02      | Coaxial Cable     | N/A              | BlueAsia    | V02    | N/A        | N/A        |

### Radiated Spurious Emissions (Above 1GHz)

| Equipment      | Name             | Model               | Manufacture | S/N          | Cal. Date  | Due. Date  |
|----------------|------------------|---------------------|-------------|--------------|------------|------------|
| BLA-EMC-001-01 | Anechoic chamber | 9*6*6 chamber       | SKET        | N/A          | 2023/11/16 | 2026/11/15 |
| BLA-EMC-001-02 | Control Room     | 966 control room    | SKET        | N/A          | 2025/11/12 | 2026/11/11 |
| BLA-EMC-008    | Spectrum         | FSP40               | R&S         | 100817       | 2025/08/05 | 2026/08/04 |
| BLA-EMC-013    | Horn Antenna     | BBHA9120D           | Schwarzbeck | 01892        | 2024/06/29 | 2026/06/28 |
| BLA-EMC-014    | Amplifier        | PA_000318G-45       | SKET        | PA2018043003 | 2025/08/05 | 2026/08/04 |
| BLA-EMC-046    | Filter bank      | 2.4G/5G Filter bank | SKET        | N/A          | 2025/06/09 | 2026/06/08 |
| BLA-EMC-061    | Receiver         | ESPI7               | R&S         | 101477       | 2025/06/09 | 2026/06/08 |
| BLA-EMC-066    | Amplifier        | LNPA_30M01G-30      | SKET        | SK2021060801 | 2025/06/09 | 2026/06/08 |
| BLA-EMC-086    | Amplifier        | LNPA_18G40G-50dB    | SKET        | SK2022071301 | 2025/06/09 | 2026/06/08 |
| BLA-EMC-087    | Horn Antenna     | BBHA 9170           | Schwarzbeck | 1106         | 2024/06/29 | 2026/06/28 |
| BLA-XC-03      | Coaxial Cable    | N/A                 | BlueAsia    | V03          | N/A        | N/A        |
| BLA-XC-04      | Coaxial Cable    | N/A                 | BlueAsia    | V04          | N/A        | N/A        |

### Conducted Emissions

| Equipment       | Name                                            | Model       | Manufacture | S/N          | Cal. Date  | Due. Date  |
|-----------------|-------------------------------------------------|-------------|-------------|--------------|------------|------------|
| BLA-EMC-003-001 | Shield room                                     | 8*3*3       | SKET        | N/A          | 2025/11/12 | 2026/11/11 |
| BLA-EMC-009     | EMI receiver                                    | ESR7        | R&S         | 101199       | 2025/08/05 | 2026/08/04 |
| BLA-EMC-011     | LISN                                            | ENV216      | R&S         | 101372       | 2025/08/05 | 2026/08/04 |
| BLA-EMC-033     | Impedance transformer                           | DC-2GHz     | DFXP        | N/A          | 2025/06/09 | 2026/06/08 |
| BLA-EMC-041     | LISN                                            | AT166-2     | ATTEN       | AKK180600003 | 2025/08/05 | 2026/08/04 |
| BLA-EMC-045     | Impedance stable network                        | ISNT8-cat 6 | TESEQ       | 53580        | 2025/08/05 | 2026/08/04 |
| BLA-EMC-095     | Single-channel vehicle artificial power network | NNBM 8124   | Schwarzbeck | 01045        | 2025/06/09 | 2026/06/08 |
| BLA-EMC-096     | Single-channel vehicle artificial power network | NNBM 8124   | Schwarzbeck | 01075        | 2025/06/09 | 2026/06/08 |
| BLA-XC-05       | Coaxial Cable                                   | N/A         | BlueAsia    | V05          | N/A        | N/A        |

### RF conducted

| Equipment       | Name                       | Model    | Manufacture | S/N           | Cal. Date  | Due. Date  |
|-----------------|----------------------------|----------|-------------|---------------|------------|------------|
| BLA-EMC-003-003 | Shield room                | 5*3*3    | SKET        | N/A           | 2025/11/12 | 2026/11/11 |
| BLA-EMC-016     | Signal Generator           | N5182A   | Agilent     | MY52420567    | 2025/06/09 | 2026/06/08 |
| BLA-EMC-038     | Spectrum                   | N9020A   | Agilent     | MY49100060    | 2025/08/05 | 2026/08/04 |
| BLA-EMC-042     | Power sensor               | RPR3006W | DARE        | 14I00889SN042 | 2025/08/05 | 2026/08/04 |
| BLA-EMC-044     | Radio communication tester | CMW500   | R&S         | 132429        | 2025/08/05 | 2026/08/04 |
| BLA-EMC-064     | Signal Generator           | N5182B   | KEYSIGHT    | MY58108892    | 2025/06/09 | 2026/06/08 |

|             |                |        |                    |                |            |            |
|-------------|----------------|--------|--------------------|----------------|------------|------------|
| BLA-EMC-079 | Spectrum       | N9020A | Agilent            | MY544201<br>61 | 2025/08/05 | 2026/08/04 |
| BLA-EMC-088 | Audio Analyzer | ATS-1  | Audio<br>Precision | ATS14109<br>4  | 2025/06/09 | 2026/06/08 |

**Test Software Record:**

| Software No. | Software Name | Manufacture | Software version | Test site |
|--------------|---------------|-------------|------------------|-----------|
| BLA-EMC-S001 | EZ-EMC        | EZ          | EEMC-3A1+        | RE        |
| BLA-EMC-S002 | EZ-EMC        | EZ          | EEMC-3A1+        | RE        |
| BLA-EMC-S003 | EZ-EMC        | EZ          | EEMC-3A1+        | CE        |
| BLA-EMC-S010 | MTS 8310      | MW          | 2.0.0.0          | RF        |

## 6 Test result

### 6.1 Antenna requirement

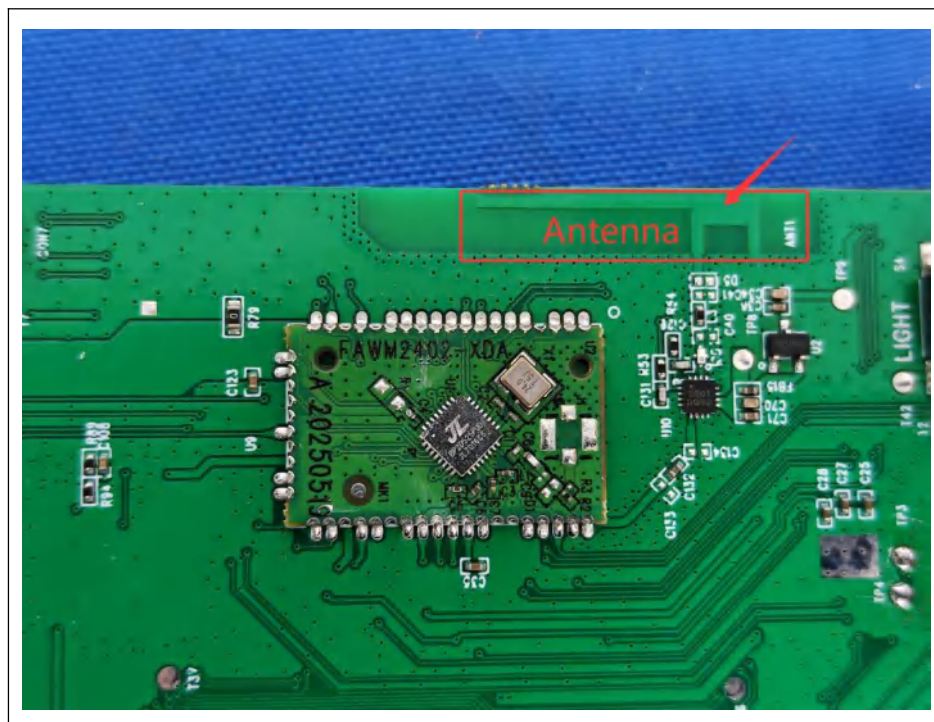
|               |                                  |
|---------------|----------------------------------|
| Test Standard | 47 CFR Part 15, Subpart C 15.247 |
| Test Method   | N/A                              |

#### 6.1.1 Requirement

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 an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of a so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT antenna:

The antenna is PCB antenna. The best case gain of the antenna is 1.62dBi.



## 6.2 Conducted emissions at AC power line (150 kHz-30 MHz)

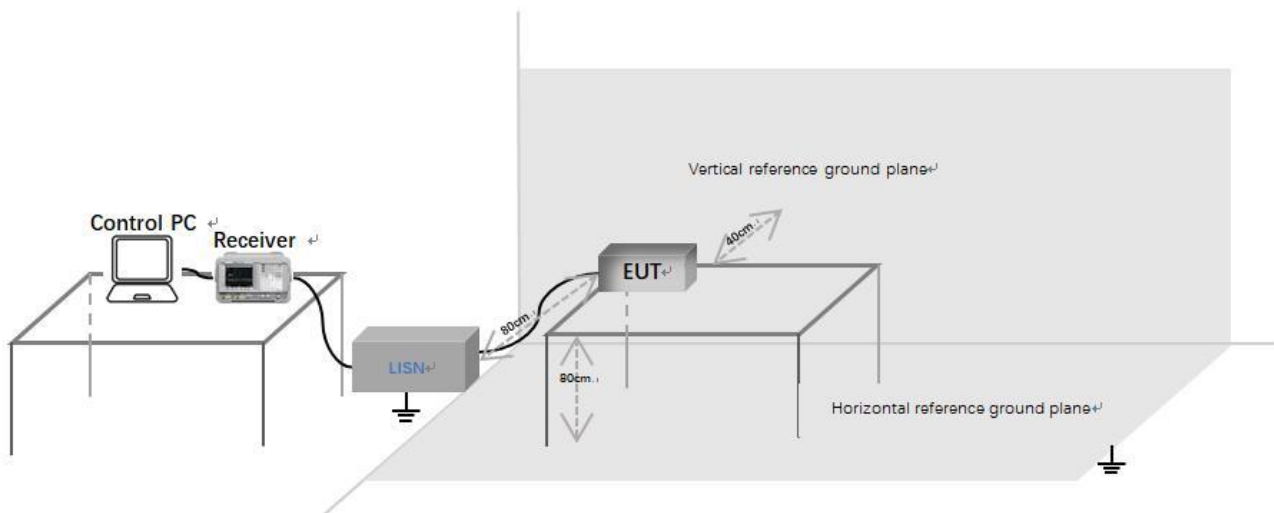
|                               |                                         |
|-------------------------------|-----------------------------------------|
| <b>Test Standard</b>          | 47 CFR Part 15, Subpart C 15.247        |
| <b>Test Method</b>            | ANSI C63.10-2020+Cor.1-2023 Section 6.2 |
| <b>Test Mode (Pre-Scan)</b>   | Charging+TX                             |
| <b>Test Mode (Final Test)</b> | Charging+TX                             |

### 6.2.1 Limit

| Frequency of emission(MHz) | Conducted limit(dB $\mu$ V) |           |
|----------------------------|-----------------------------|-----------|
|                            | Quasi-peak                  | Average   |
| 0.15-0.5                   | 66 to 56*                   | 56 to 46* |
| 0.5-5                      | 56                          | 46        |
| 5-30                       | 60                          | 50        |

\*Decreases with the logarithm of the frequency.

### 6.2.2 Test setup



Description of test setup connection:

- Connect the control PC to the receiver through a USB to GPIB cable;
- The receiver is connected to the LISN through a coaxial line;
- Connect the power port of LISN to the EUT.

### 6.2.3 Procedure

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) 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 on conducted measurement.

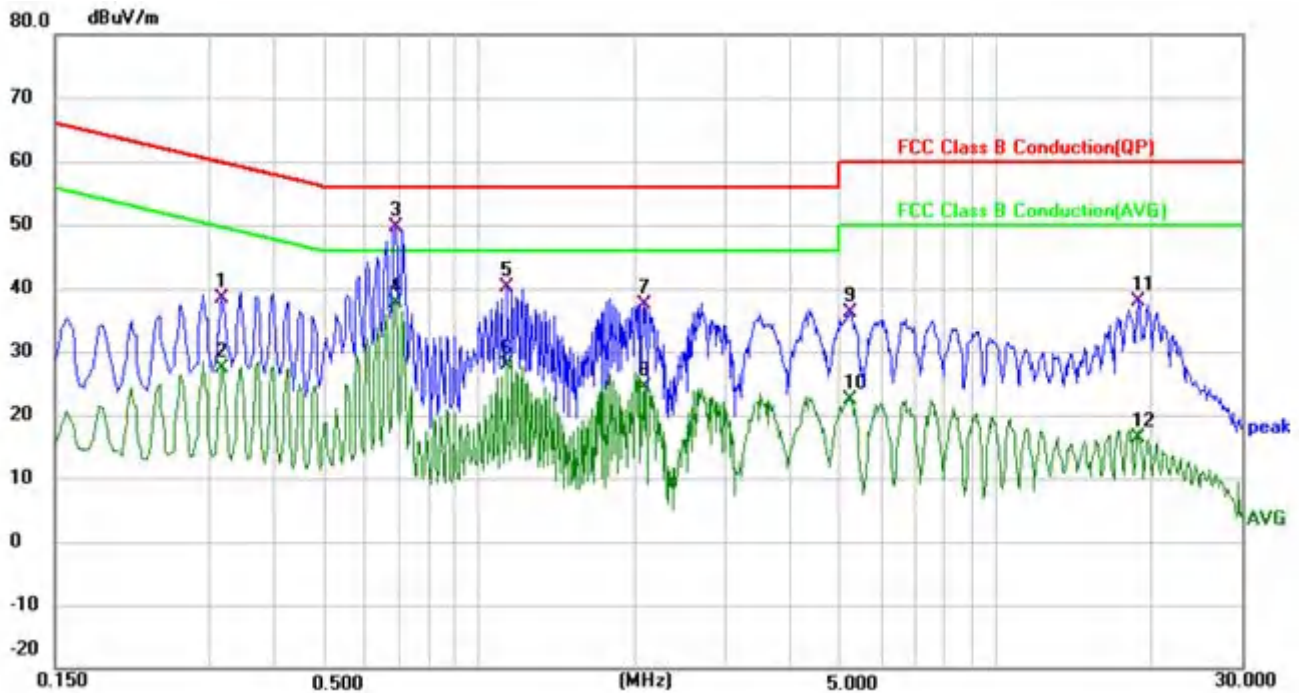
LISN=Read Level+ Cable Loss+ LISN Factor

## 6.2.4 Test data

Adapter 1

Worst case: 8DPSK

[Test Mode: Charging+TX-2480MHz]; [Line: Line];[Voltage:120V/60Hz]



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector |
|-----|-----|--------------|----------------------------|-------------------------|----------------------------|-----------------|------------|----------|
| 1   |     | 0.3140       | 28.60                      | 9.74                    | 38.34                      | 59.86           | -21.52     | QP       |
| 2   |     | 0.3140       | 17.58                      | 9.74                    | 27.32                      | 49.86           | -22.54     | AVG      |
| 3   | *   | 0.6860       | 39.85                      | 9.70                    | 49.55                      | 56.00           | -6.45      | QP       |
| 4   |     | 0.6860       | 28.00                      | 9.70                    | 37.70                      | 46.00           | -8.30      | AVG      |
| 5   |     | 1.1300       | 30.34                      | 9.79                    | 40.13                      | 56.00           | -15.87     | QP       |
| 6   |     | 1.1300       | 18.14                      | 9.79                    | 27.93                      | 46.00           | -18.07     | AVG      |
| 7   |     | 2.0780       | 27.57                      | 9.81                    | 37.38                      | 56.00           | -18.62     | QP       |
| 8   |     | 2.0780       | 14.61                      | 9.81                    | 24.42                      | 46.00           | -21.58     | AVG      |
| 9   |     | 5.2340       | 26.49                      | 9.73                    | 36.22                      | 60.00           | -23.78     | QP       |
| 10  |     | 5.2340       | 12.54                      | 9.73                    | 22.27                      | 50.00           | -27.73     | AVG      |
| 11  |     | 18.9340      | 27.78                      | 10.14                   | 37.92                      | 60.00           | -22.08     | QP       |
| 12  |     | 18.9340      | 6.36                       | 10.14                   | 16.50                      | 50.00           | -33.50     | AVG      |

**Test Result: Pass**

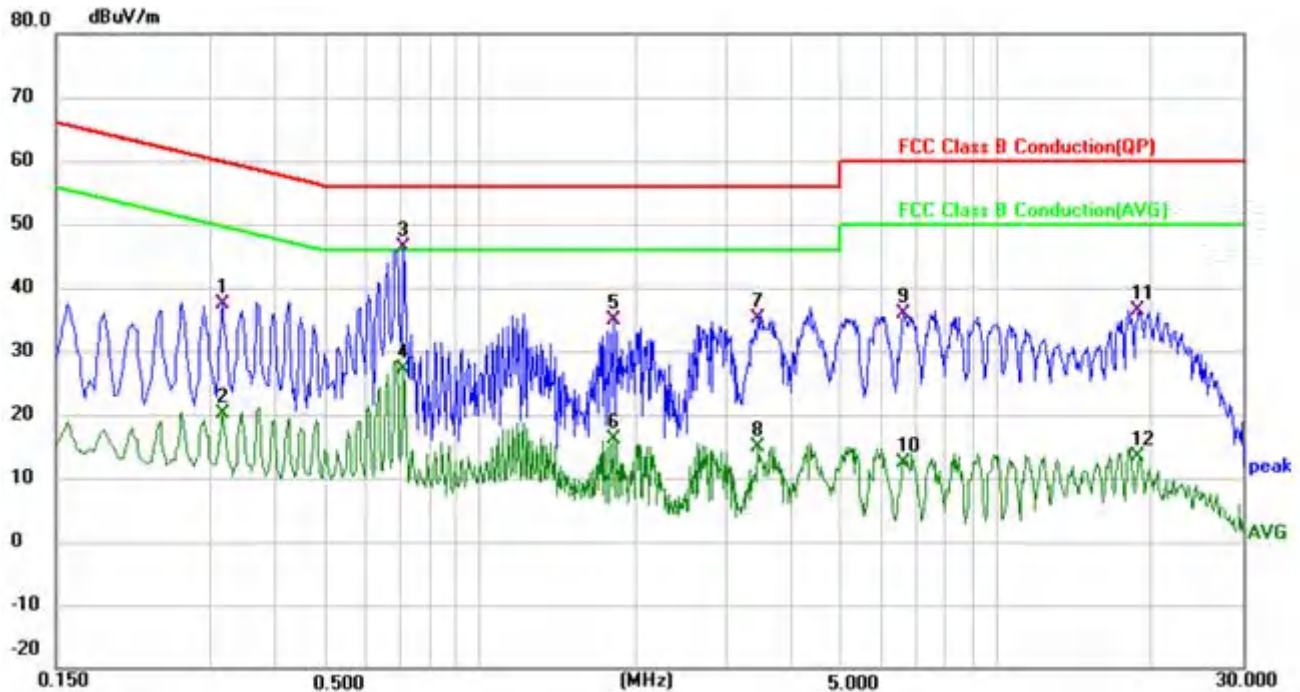
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Version:v1.3

[Test Mode: Charging+TX-2480MHz]; [Line: Neutral] ;[Voltage:120V/60Hz]



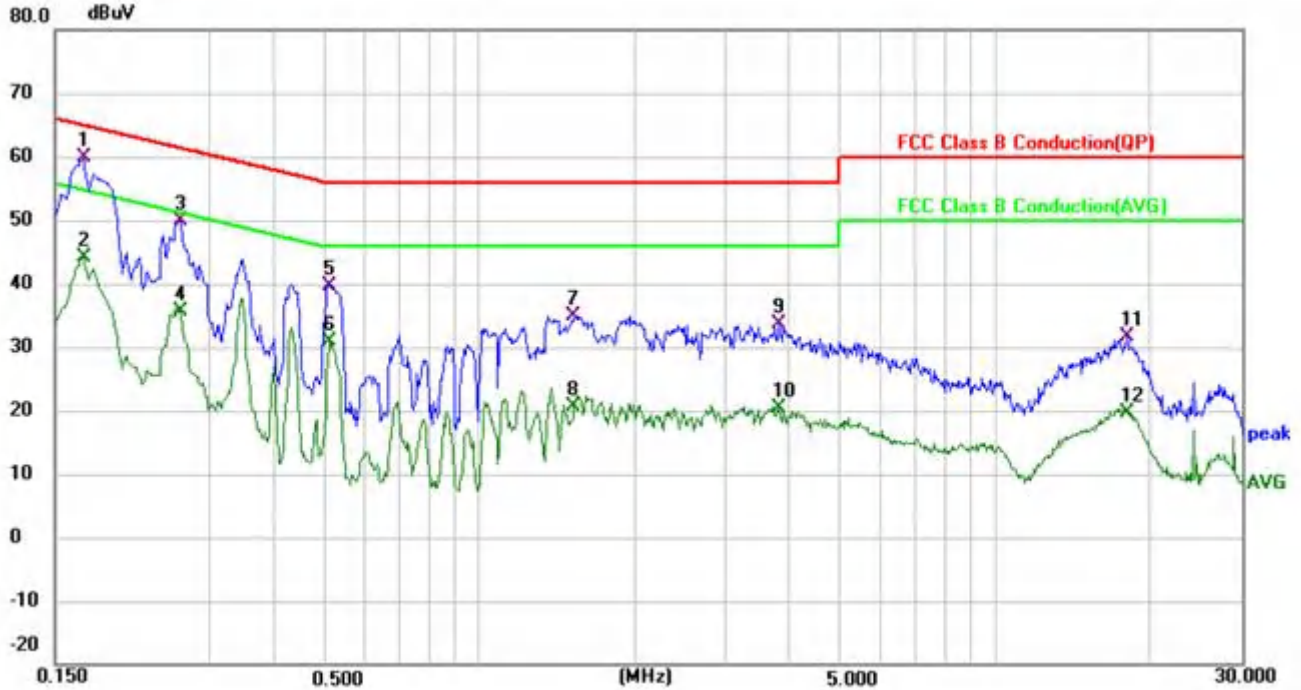
| No. Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector |
|---------|--------------|----------------------------|-------------------------|----------------------------|-----------------|------------|----------|
| 1       | 0.3140       | 27.52                      | 9.76                    | 37.28                      | 59.86           | -22.58     | QP       |
| 2       | 0.3140       | 10.41                      | 9.76                    | 20.17                      | 49.86           | -29.69     | AVG      |
| 3 *     | 0.7100       | 36.72                      | 9.71                    | 46.43                      | 56.00           | -9.57      | QP       |
| 4       | 0.7100       | 17.38                      | 9.71                    | 27.09                      | 46.00           | -18.91     | AVG      |
| 5       | 1.8140       | 25.17                      | 9.75                    | 34.92                      | 56.00           | -21.08     | QP       |
| 6       | 1.8140       | 6.34                       | 9.75                    | 16.09                      | 46.00           | -29.91     | AVG      |
| 7       | 3.4420       | 25.36                      | 9.75                    | 35.11                      | 56.00           | -20.89     | QP       |
| 8       | 3.4420       | 5.01                       | 9.75                    | 14.76                      | 46.00           | -31.24     | AVG      |
| 9       | 6.6260       | 26.25                      | 9.71                    | 35.96                      | 60.00           | -24.04     | QP       |
| 10      | 6.6260       | 2.79                       | 9.71                    | 12.50                      | 50.00           | -37.50     | AVG      |
| 11      | 18.8779      | 26.26                      | 10.07                   | 36.33                      | 60.00           | -23.67     | QP       |
| 12      | 18.8779      | 3.26                       | 10.07                   | 13.33                      | 50.00           | -36.67     | AVG      |

**Test Result: Pass**

Adapter 2

Worst case: 8DPSK

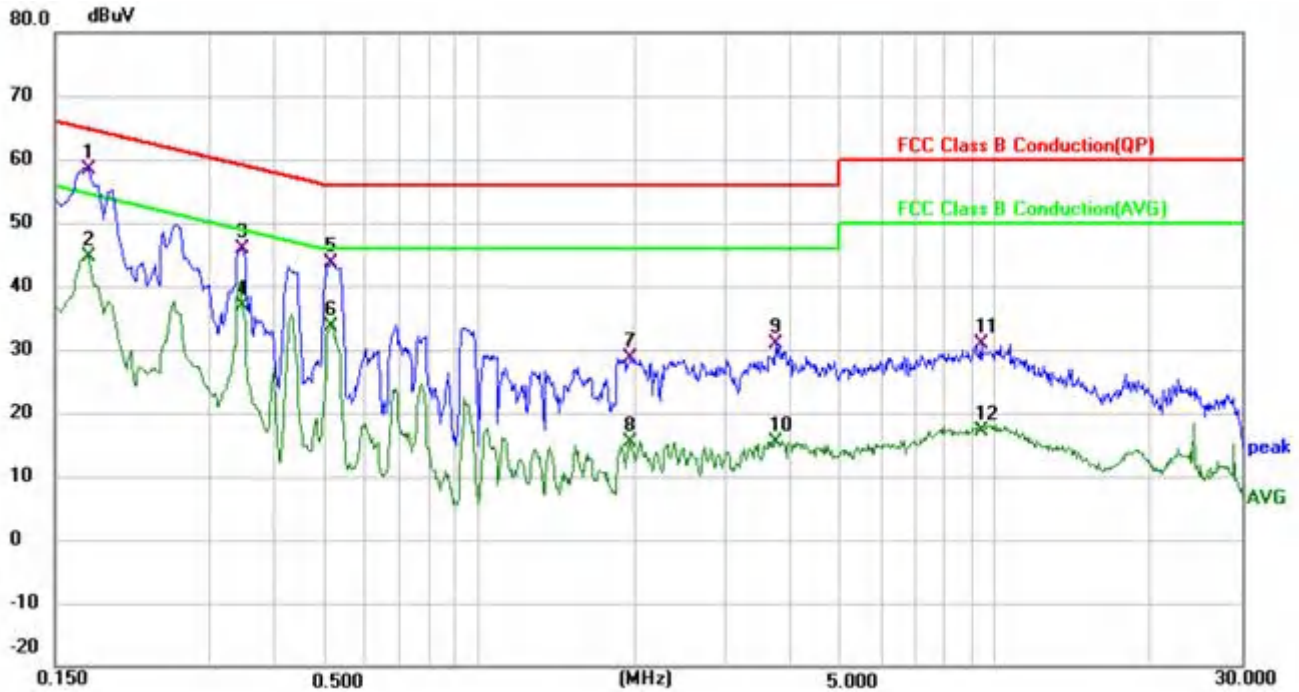
[Test Mode: Charging+TX-2480MHz]; [Line: Line];[Voltage: AC120V/60Hz]



| 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   | *   | 0.1700       | 49.90                    | 9.98                    | 59.88                    | 64.96         | -5.08      | QP       |
| 2   |     | 0.1700       | 34.27                    | 9.98                    | 44.25                    | 54.96         | -10.71     | AVG      |
| 3   |     | 0.2620       | 40.26                    | 9.66                    | 49.92                    | 61.37         | -11.45     | QP       |
| 4   |     | 0.2620       | 25.89                    | 9.66                    | 35.55                    | 51.37         | -15.82     | AVG      |
| 5   |     | 0.5100       | 29.88                    | 9.71                    | 39.59                    | 56.00         | -16.41     | QP       |
| 6   |     | 0.5100       | 21.08                    | 9.71                    | 30.79                    | 46.00         | -15.21     | AVG      |
| 7   |     | 1.5339       | 25.15                    | 9.82                    | 34.97                    | 56.00         | -21.03     | QP       |
| 8   |     | 1.5339       | 10.84                    | 9.82                    | 20.66                    | 46.00         | -25.34     | AVG      |
| 9   |     | 3.8100       | 23.59                    | 9.99                    | 33.58                    | 56.00         | -22.42     | QP       |
| 10  |     | 3.8100       | 10.47                    | 9.99                    | 20.46                    | 46.00         | -25.54     | AVG      |
| 11  |     | 18.0259      | 19.43                    | 12.21                   | 31.64                    | 60.00         | -28.36     | QP       |
| 12  |     | 18.0259      | 7.52                     | 12.21                   | 19.73                    | 50.00         | -30.27     | AVG      |

Test Result: Pass

[Test Mode: Charging+TX-2480MHz]; [Line: Neutral] ;[Voltage: AC 120V/60Hz]



| No. | Mk. | Freq.  | Reading | Correct | Measure- | Limit | Over   |          |
|-----|-----|--------|---------|---------|----------|-------|--------|----------|
|     |     | MHz    | Level   | Factor  | ment     |       |        | Detector |
|     |     |        | dBuV    | dB      | dBuV     | dBuV  | dB     |          |
| 1   | *   | 0.1739 | 48.45   | 9.97    | 58.42    | 64.77 | -6.35  | QP       |
| 2   |     | 0.1739 | 34.55   | 9.97    | 44.52    | 54.77 | -10.25 | AVG      |
| 3   |     | 0.3459 | 36.20   | 9.68    | 45.88    | 59.06 | -13.18 | QP       |
| 4   |     | 0.3459 | 27.15   | 9.68    | 36.83    | 49.06 | -12.23 | AVG      |
| 5   |     | 0.5140 | 33.89   | 9.71    | 43.60    | 56.00 | -12.40 | QP       |
| 6   |     | 0.5140 | 23.85   | 9.71    | 33.56    | 46.00 | -12.44 | AVG      |
| 7   |     | 1.9619 | 18.77   | 9.84    | 28.61    | 56.00 | -27.39 | QP       |
| 8   |     | 1.9619 | 5.64    | 9.84    | 15.48    | 46.00 | -30.52 | AVG      |
| 9   |     | 3.7500 | 20.84   | 9.98    | 30.82    | 56.00 | -25.18 | QP       |
| 10  |     | 3.7500 | 5.29    | 9.98    | 15.27    | 46.00 | -30.73 | AVG      |
| 11  |     | 9.3780 | 20.20   | 10.69   | 30.89    | 60.00 | -29.11 | QP       |
| 12  |     | 9.3780 | 6.52    | 10.69   | 17.21    | 50.00 | -32.79 | AVG      |

**Test Result: Pass**

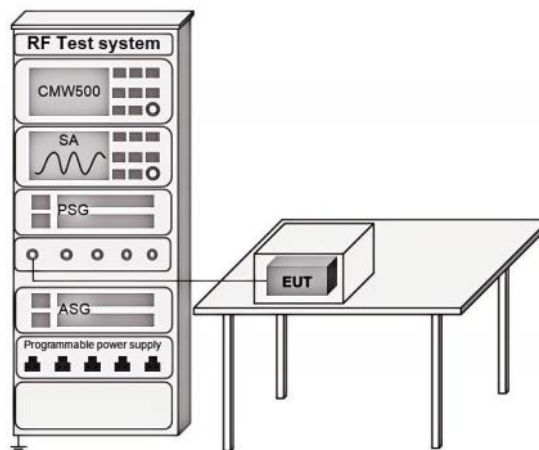
### 6.3 Conducted peak output Power

|                               |                                            |
|-------------------------------|--------------------------------------------|
| <b>Test Standard</b>          | 47 CFR Part 15, Subpart C 15.247           |
| <b>Test Method</b>            | ANSI C63.10-2020+Cor.1-2023 Section 11.9.1 |
| <b>Test Mode (Pre-Scan)</b>   | TX                                         |
| <b>Test Mode (Final Test)</b> | TX                                         |

#### 6.3.1 Limit

| Frequency range(MHz) | Output power of the intentional radiator(watt)         |
|----------------------|--------------------------------------------------------|
| 902-928              | 1 for $\geq 50$ hopping channels                       |
|                      | 0.25 for $25 \leq$ hopping channels $< 50$             |
|                      | 1 for digital modulation                               |
| 2400-2483.5          | 1 for $\geq 75$ non-overlapping hopping channels       |
|                      | 0.125 for all other frequency hopping systems          |
|                      | 1 for digital modulation                               |
| 5725-5850            | 1 for frequency hopping systems and digital modulation |

#### 6.3.2 Test setup



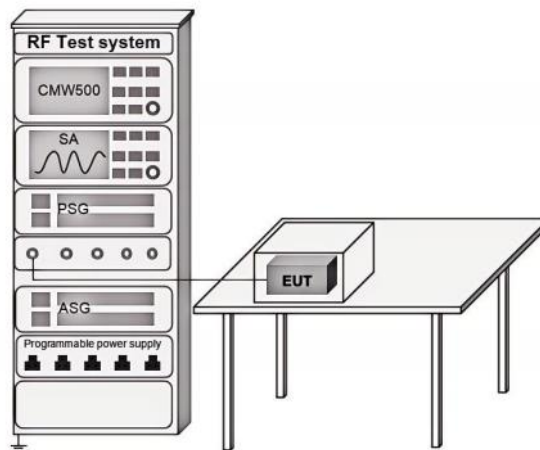
#### 6.3.3 Test data

Pass: Please refer to appendix A for details

## 6.4 20dB Bandwidth

|                        |                                                  |
|------------------------|--------------------------------------------------|
| Test Standard          | 47 CFR Part 15, Subpart C 15.247                 |
| Test Method            | ANSI C63.10-2020+Cor.1-2023 Section 6.9.2& 7.8.7 |
| Test Mode (Pre-Scan)   | TX                                               |
| Test Mode (Final Test) | TX                                               |

### 6.4.1 Test setup



### 6.4.2 Test data

Pass: Please refer to appendix A for details

## 6.5 Conducted Band Edges Measurement

|                               |                                            |
|-------------------------------|--------------------------------------------|
| <b>Test Standard</b>          | 47 CFR Part 15, Subpart C 15.247           |
| <b>Test Method</b>            | ANSI C63.10-2020+Cor.1-2023 Section 6.10.4 |
| <b>Test Mode (Pre-Scan)</b>   | TX                                         |
| <b>Test Mode (Final Test)</b> | TX                                         |

### 6.5.1 Limit

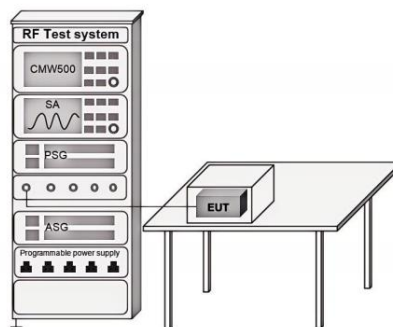
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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 20dB.

Attenuation below the general limits specified in §15.209(a) is not required.

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)).

### 6.5.2 Test setup



### 6.5.3 Test data

Pass: Please refer to appendix A for details

## 6.6 Conducted spurious emissions

|                               |                                           |
|-------------------------------|-------------------------------------------|
| <b>Test Standard</b>          | 47 CFR Part 15, Subpart C 15.247          |
| <b>Test Method</b>            | ANSI C63.10-2020+Cor.1-2023 Section 7.8.8 |
| <b>Test Mode (Pre-Scan)</b>   | TX                                        |
| <b>Test Mode (Final Test)</b> | TX                                        |

### 6.6.1 Limit

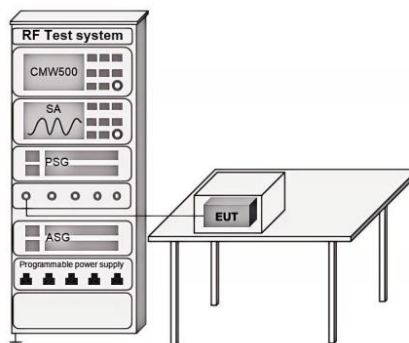
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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 20dB.

Attenuation below the general limits specified in §15.209(a) is not required.

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)).

### 6.6.2 Test setup



### 6.6.3 Test data

Pass: Please refer to appendix A for details

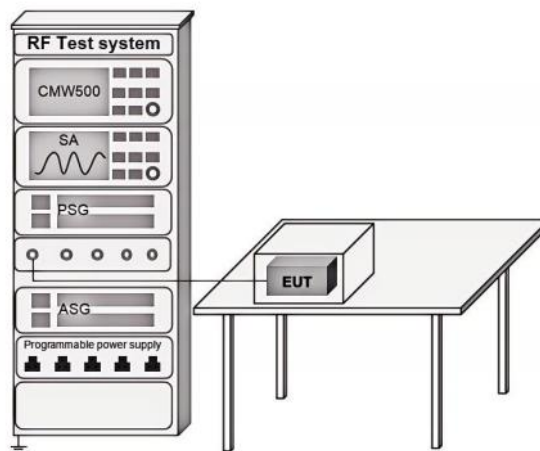
## 6.7 Carrier Frequencies Separation

|                        |                                           |
|------------------------|-------------------------------------------|
| Test Standard          | 47 CFR Part 15, Subpart C 15.247          |
| Test Method            | ANSI C63.10-2020+Cor.1-2023 Section 7.8.2 |
| Test Mode (Pre-Scan)   | TX                                        |
| Test Mode (Final Test) | TX                                        |

### 6.7.1 Limit

2/3 of the 20dB bandwidth base on the transmission power is less than 0.125W

### 6.7.2 Test setup



### 6.7.3 Test data

Pass: Please refer to appendix A for details

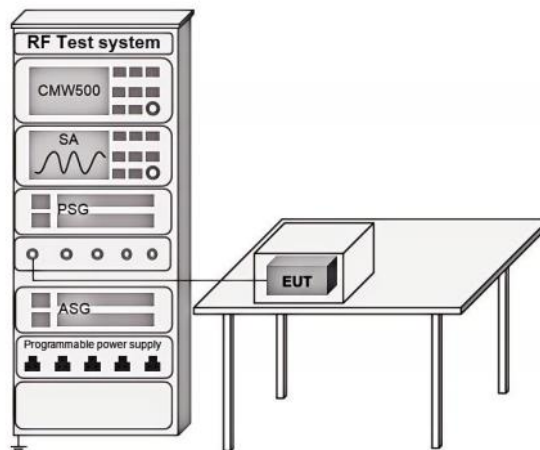
## 6.8 Hopping Channel Number

|                               |                                           |
|-------------------------------|-------------------------------------------|
| <b>Test Standard</b>          | 47 CFR Part 15, Subpart C 15.247          |
| <b>Test Method</b>            | ANSI C63.10-2020+Cor.1-2023 Section 7.8.3 |
| <b>Test Mode (Pre-Scan)</b>   | TX                                        |
| <b>Test Mode (Final Test)</b> | TX                                        |

### 6.8.1 Limit

| Frequency range(MHz) | Number of hopping channels (minimum) |
|----------------------|--------------------------------------|
| 902-928              | 50 for 20dB bandwidth <250kHz        |
|                      | 25 for 20dB bandwidth ≥250kHz        |
| 2400-2483.5          | 15                                   |
| 5725-5850            | 75                                   |

### 6.8.2 Test setup



### 6.8.3 Test data

Pass: Please refer to appendix A for details

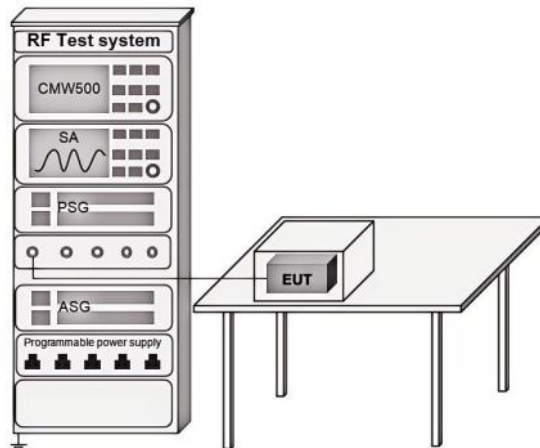
## 6.9 Dwell Time

|                               |                                           |
|-------------------------------|-------------------------------------------|
| <b>Test Standard</b>          | 47 CFR Part 15, Subpart C 15.247          |
| <b>Test Method</b>            | ANSI C63.10-2020+Cor.1-2023 Section 7.8.4 |
| <b>Test Mode (Pre-Scan)</b>   | TX                                        |
| <b>Test Mode (Final Test)</b> | TX                                        |

### 6.9.1 Limit

| Frequency(MHz) | Limit                                                                     |
|----------------|---------------------------------------------------------------------------|
| 902-928        | 0.4s within a 20s period(20dB bandwidth<250kHz)                           |
|                | 0.4s within a 10s period(20dB bandwidth≥250kHz)                           |
| 2400-2483.5    | 0.4s within a period of 0.4s multiplied by the number of hopping channels |
| 5725-5850      | 0.4s within a 30s period                                                  |

### 6.9.2 Test setup



### 6.9.3 Test data

Pass: Please refer to appendix A for details

## 6.10 Radiated spurious emissions

|                               |                                                                         |
|-------------------------------|-------------------------------------------------------------------------|
| <b>Test Standard</b>          | 47 CFR Part 15, Subpart C 15.247(d)<br>47 CFR Part 15, Subpart C 15.209 |
| <b>Test Method</b>            | ANSI C63.10-2020+Cor.1-2023 Section 6.3,6.4,6.5,6.6                     |
| <b>Test Mode (Pre-Scan)</b>   | TX                                                                      |
| <b>Test Mode (Final Test)</b> | TX                                                                      |

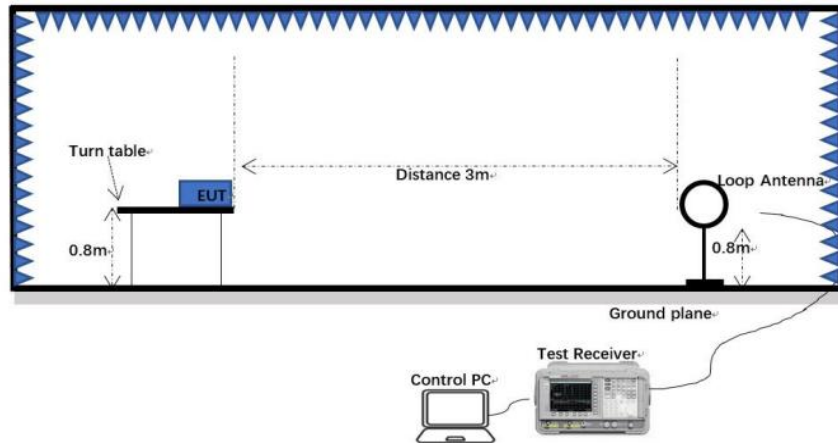
### 6.10.1 Limit

| 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                            |

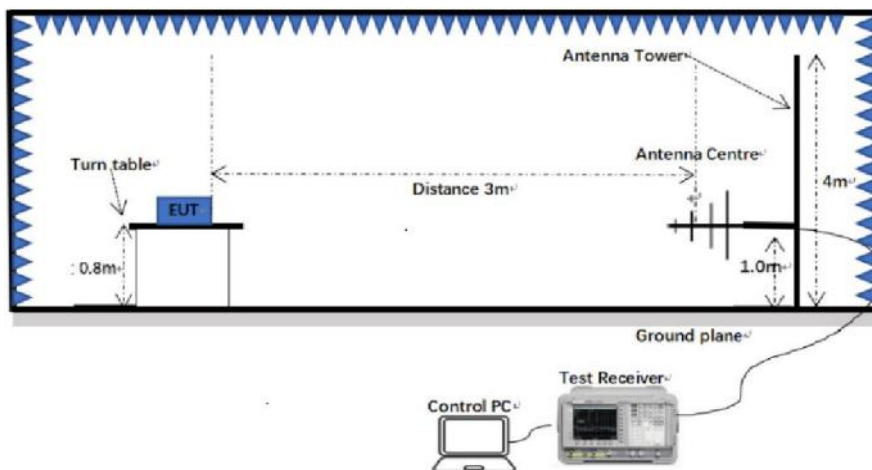
*Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.*

## 6.10.2 Test setup

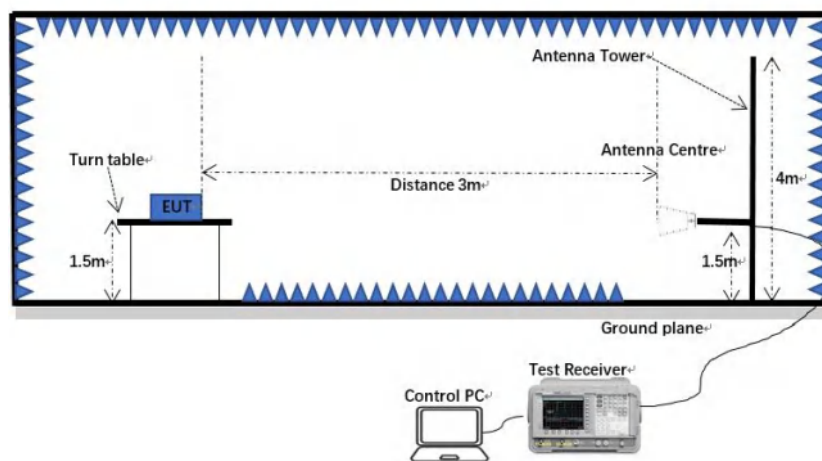
Below 1GHz:



30MHz-1GHz:



Above 1GHz:



### 6.10.3 Procedure

- a) For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b) For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c) 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.
- d) 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.
- e) 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) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g) 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.
- h) Test the EUT in the lowest channel, the middle channel, the highest channel.
- i) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j) Repeat above procedures until all frequencies measured was complete.

*Note 1: Scan from 9 kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.*

*Note 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.*

*Note 3: The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:*

$$\text{Level (dBuV)} = \text{Reading (dBuV)} + \text{Factor (dB/m)}$$

#### 6.10.4 Test data

##### Below 1GHz

Remark: During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case lowest channel for 8DPSK was recorded in the report.

Adapter 1:

[Test mode: Charging+TX-2402MHz]; [Polarity: Horizontal]



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 * | 81.4970         | 54.19          | -23.14        | 31.05          | 40.00          | -8.95       | QP       |
| 2   | 107.8877        | 48.25          | -22.02        | 26.23          | 43.50          | -17.27      | QP       |
| 3   | 124.1330        | 48.91          | -19.77        | 29.14          | 43.50          | -14.36      | QP       |
| 4   | 359.1860        | 34.75          | -17.59        | 17.16          | 46.00          | -28.84      | QP       |
| 5   | 672.8444        | 27.60          | -11.01        | 16.59          | 46.00          | -29.41      | QP       |
| 6   | 948.7610        | 29.17          | -5.74         | 23.43          | 46.00          | -22.57      | QP       |

**Test Result: Pass**

[Test mode: Charging+TX-2402MHz]; [Polarity: Vertical]



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 56.5929         | 41.41          | -19.30        | 22.11          | 40.00          | -17.89      | QP       |
| 2 * | 81.7833         | 58.77          | -23.17        | 35.60          | 40.00          | -4.40       | QP       |
| 3   | 99.5281         | 59.58          | -22.70        | 36.88          | 43.50          | -6.62       | QP       |
| 4   | 124.5690        | 56.32          | -19.83        | 36.49          | 43.50          | -7.01       | QP       |
| 5   | 226.8936        | 43.85          | -22.02        | 21.83          | 46.00          | -24.17      | QP       |
| 6   | 443.2943        | 31.40          | -14.94        | 16.46          | 46.00          | -29.54      | QP       |

**Test Result: Pass**

Adapter 2:

[Test mode: Charging+TX-2402MHz]; [Polarity: Horizontal]



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 66.0342         | 55.50          | -20.68        | 34.82          | 40.00          | -5.18       | QP       |
| 2   | 80.6441         | 57.59          | -23.08        | 34.51          | 40.00          | -5.49       | QP       |
| 3   | 86.5027         | 56.38          | -22.86        | 33.52          | 40.00          | -6.48       | QP       |
| 4 * | 137.4202        | 58.01          | -18.82        | 39.19          | 43.50          | -4.31       | QP       |
| 5   | 194.4534        | 51.70          | -22.21        | 29.49          | 43.50          | -14.01      | QP       |
| 6   | 317.7010        | 44.33          | -18.32        | 26.01          | 46.00          | -19.99      | QP       |

**Test Result: Pass**

[Test mode: Charging+TX-2402MHz]; [Polarity: Vertical]



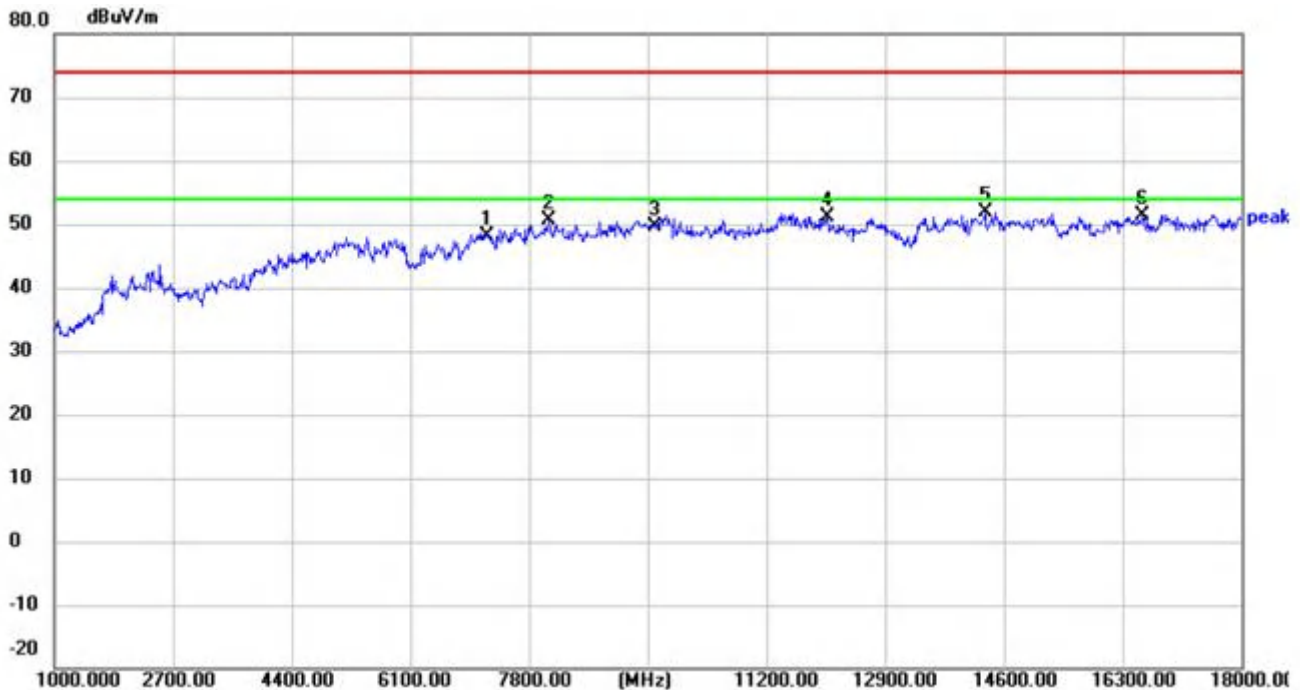
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 * | 55.4147         | 54.97          | -19.13        | 35.84          | 40.00          | -4.16       | QP       |
| 2   | 66.7325         | 55.95          | -20.81        | 35.14          | 40.00          | -4.86       | QP       |
| 3   | 80.9275         | 57.64          | -23.09        | 34.55          | 40.00          | -5.45       | QP       |
| 4   | 134.0882        | 54.47          | -18.82        | 35.65          | 43.50          | -7.85       | QP       |
| 5   | 169.5990        | 52.13          | -19.21        | 32.92          | 43.50          | -10.58      | QP       |
| 6   | 330.1949        | 48.15          | -17.60        | 30.55          | 46.00          | -15.45      | QP       |

**Test Result: Pass**

Above 1GHz:

Remark: During the test, the Radiates Emission from above 1GHz was performed in all modes, only the worst case for 8DPSK was recorded in the report.

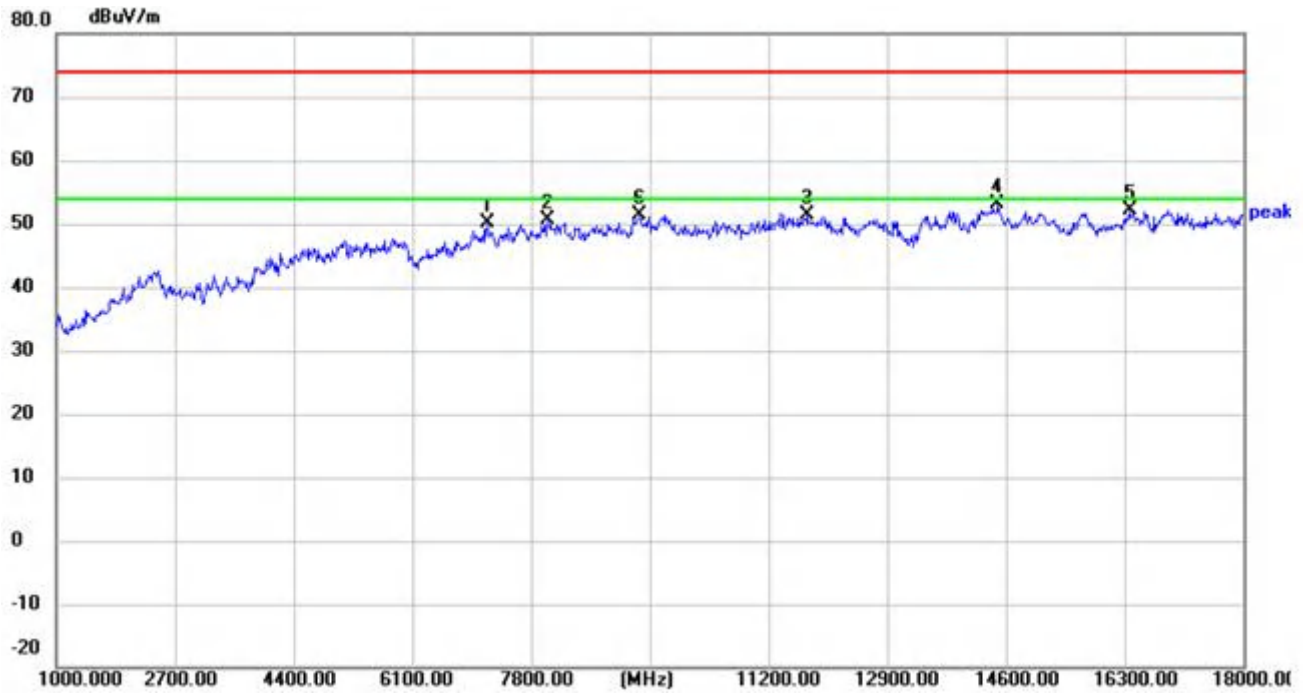
[Test mode: TX low channel]; [Polarity: Horizontal]



| 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 |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|
| 1   |     | 7206.000     | 37.71                    | 10.39                   | 48.10                      | 74.00           | -25.90     | peak     |
| 2   |     | 8089.000     | 38.78                    | 11.78                   | 50.56                      | 74.00           | -23.44     | peak     |
| 3   |     | 9608.000     | 36.62                    | 13.01                   | 49.63                      | 74.00           | -24.37     | peak     |
| 4   |     | 12067.00     | 37.28                    | 13.94                   | 51.22                      | 74.00           | -22.78     | peak     |
| 5   |     | 14328.00     | 40.87                    | 10.97                   | 51.84                      | 74.00           | -22.16     | peak     |
| 6   |     | 16589.00     | 40.39                    | 10.88                   | 51.27                      | 74.00           | -22.73     | peak     |

**Test Result: Pass**

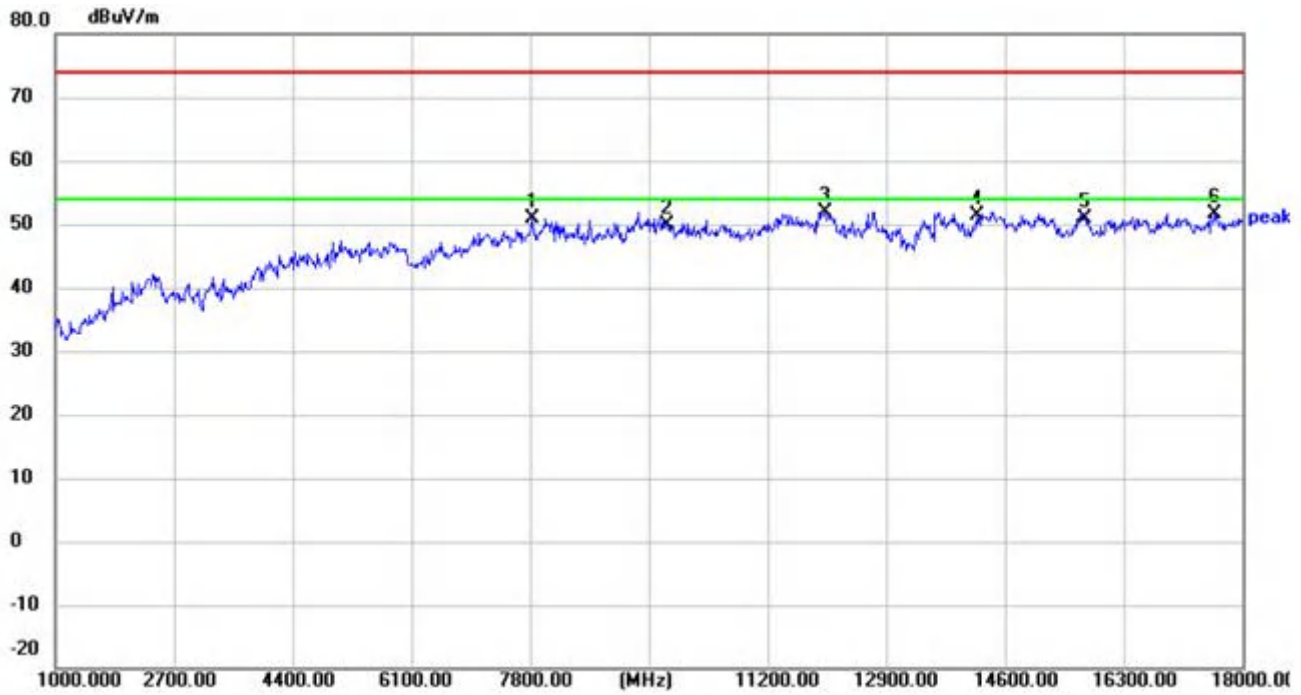
[Test mode: TX low channel]; [Polarity: Vertical]



| 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 |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|
| 1   |     | 7171.000     | 39.50                    | 10.55                   | 50.05                      | 74.00           | -23.95     | peak     |
| 2   |     | 8038.000     | 38.85                    | 11.68                   | 50.53                      | 74.00           | -23.47     | peak     |
| 3   |     | 11744.00     | 37.91                    | 13.47                   | 51.38                      | 74.00           | -22.62     | peak     |
| 4   | *   | 14481.00     | 42.50                    | 10.51                   | 53.01                      | 74.00           | -20.99     | peak     |
| 5   |     | 16368.00     | 42.71                    | 9.40                    | 52.11                      | 74.00           | -21.89     | peak     |
| 6   |     | 9347.000     | 37.96                    | 13.38                   | 51.34                      | 74.00           | -22.66     | peak     |

**Test Result: Pass**

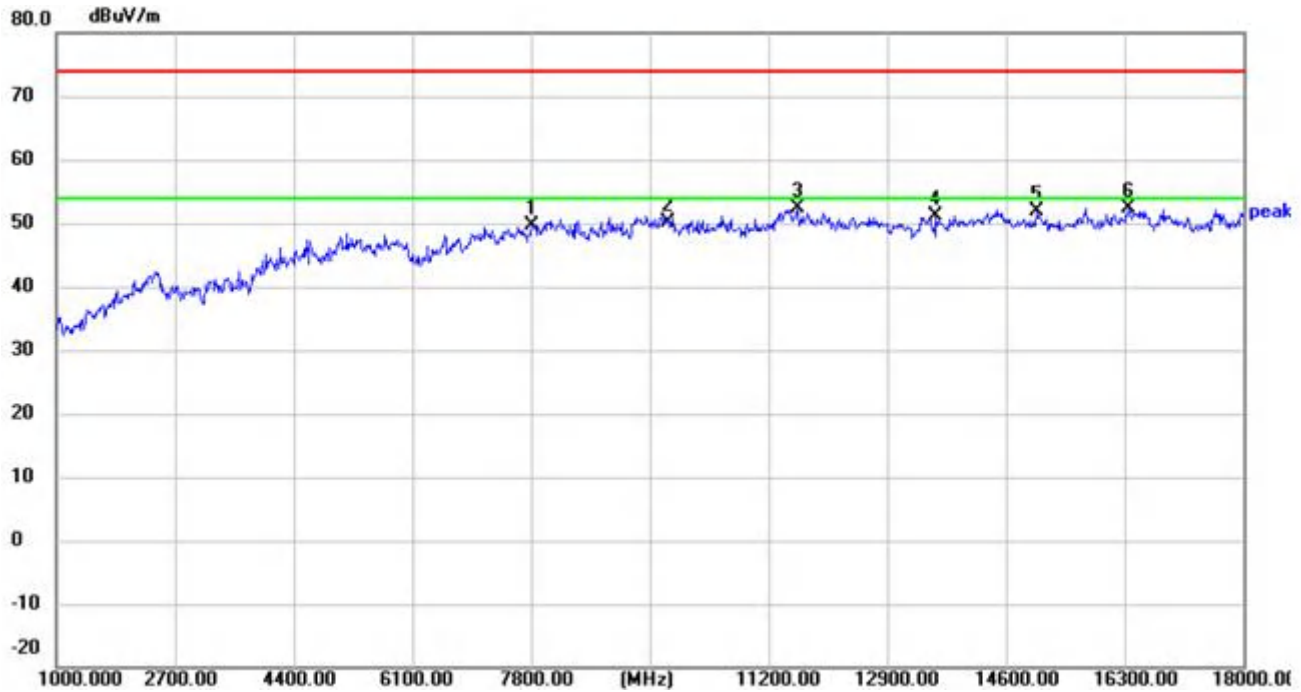
[Test mode: TX middle channel]; [Polarity: Horizontal]



| 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 |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|
| 1   |     | 7834.000     | 40.19                    | 10.63                   | 50.82                      | 74.00           | -23.18     | peak     |
| 2   |     | 9764.000     | 36.06                    | 13.76                   | 49.82                      | 74.00           | -24.18     | peak     |
| 3   | *   | 12016.00     | 37.72                    | 14.20                   | 51.92                      | 74.00           | -22.08     | peak     |
| 4   |     | 14192.00     | 40.78                    | 10.48                   | 51.26                      | 74.00           | -22.74     | peak     |
| 5   |     | 15739.00     | 41.76                    | 9.19                    | 50.95                      | 74.00           | -23.05     | peak     |
| 6   |     | 17609.00     | 41.37                    | 10.38                   | 51.75                      | 74.00           | -22.25     | peak     |

**Test Result: Pass**

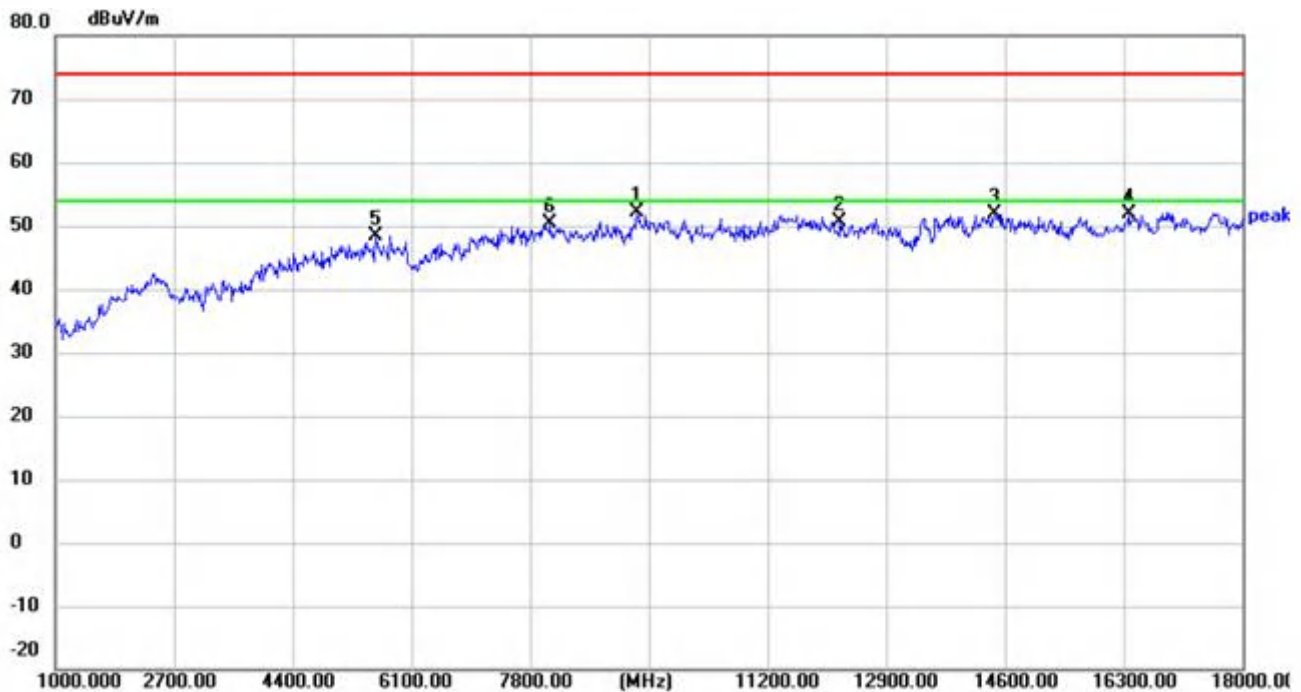
[Test mode: TX middle channel]; [Polarity: Vertical]



| 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 |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|
| 1   |     | 7800.000     | 38.94                    | 10.77                   | 49.71                      | 74.00           | -24.29     | peak     |
| 2   |     | 9764.000     | 36.42                    | 13.76                   | 50.18                      | 74.00           | -23.82     | peak     |
| 3   |     | 11608.00     | 37.72                    | 14.67                   | 52.39                      | 74.00           | -21.61     | peak     |
| 4   |     | 13597.00     | 38.22                    | 12.90                   | 51.12                      | 74.00           | -22.88     | peak     |
| 5   |     | 15042.00     | 42.52                    | 9.42                    | 51.94                      | 74.00           | -22.06     | peak     |
| 6   | *   | 16351.00     | 43.07                    | 9.33                    | 52.40                      | 74.00           | -21.60     | peak     |

Test Result: Pass

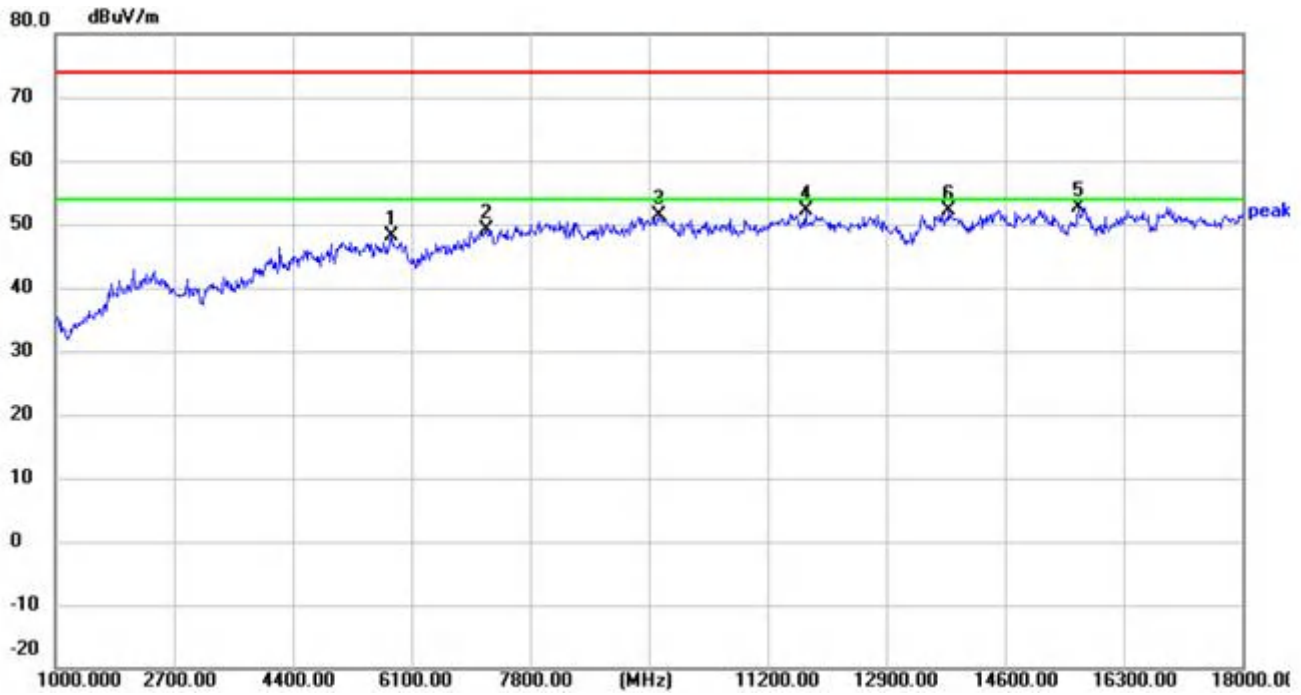
[Test mode: TX High channel]; [Polarity: Horizontal]



| 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 |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|
| 1   | *   | 9330.000     | 38.74                    | 13.29                   | 52.03                      | 74.00           | -21.97     | peak     |
| 2   |     | 12237.00     | 37.43                    | 13.19                   | 50.62                      | 74.00           | -23.38     | peak     |
| 3   |     | 14447.00     | 41.32                    | 10.59                   | 51.91                      | 74.00           | -22.09     | peak     |
| 4   |     | 16368.00     | 42.51                    | 9.40                    | 51.91                      | 74.00           | -22.09     | peak     |
| 5   |     | 5590.000     | 40.01                    | 8.39                    | 48.40                      | 74.00           | -25.60     | peak     |
| 6   |     | 8089.000     | 38.54                    | 11.78                   | 50.32                      | 74.00           | -23.68     | peak     |

Test Result: Pass

[Test mode: TX High channel]; [Polarity: Vertical]



| 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 |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|
| 1   |     | 5811.000     | 39.13                    | 8.98                    | 48.11                      | 74.00           | -25.89     | peak     |
| 2   |     | 7171.000     | 38.57                    | 10.55                   | 49.12                      | 74.00           | -24.88     | peak     |
| 3   |     | 9636.000     | 38.06                    | 13.34                   | 51.40                      | 74.00           | -22.60     | peak     |
| 4   |     | 11744.00     | 38.60                    | 13.47                   | 52.07                      | 74.00           | -21.93     | peak     |
| 5   | *   | 15654.00     | 43.26                    | 9.30                    | 52.56                      | 74.00           | -21.44     | peak     |
| 6   |     | 13801.00     | 41.55                    | 10.63                   | 52.18                      | 74.00           | -21.82     | peak     |

**Test Result: Pass**

## 6.11 Radiated emissions which fall in the restricted bands

|                               |                                                                         |
|-------------------------------|-------------------------------------------------------------------------|
| <b>Test Standard</b>          | 47 CFR Part 15, Subpart C 15.247(d)<br>47 CFR Part 15, Subpart C 15.205 |
| <b>Test Method</b>            | ANSI C63.10-2020+Cor.1-2023 Section 6.10.5                              |
| <b>Test Mode (Pre-Scan)</b>   | TX                                                                      |
| <b>Test Mode (Final Test)</b> | TX                                                                      |

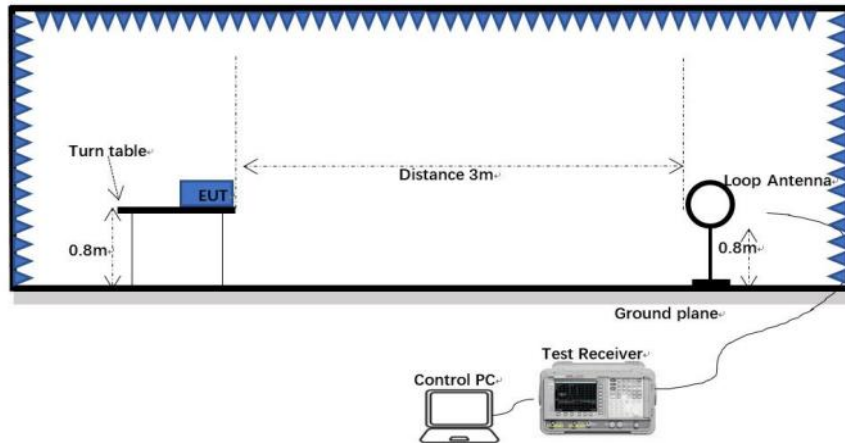
### 6.11.1 Limit

| <b>Frequency(MHz)</b> | <b>Field strength(microvolts/meter)</b> | <b>Measurement distance(meters)</b> |
|-----------------------|-----------------------------------------|-------------------------------------|
| 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                                   |

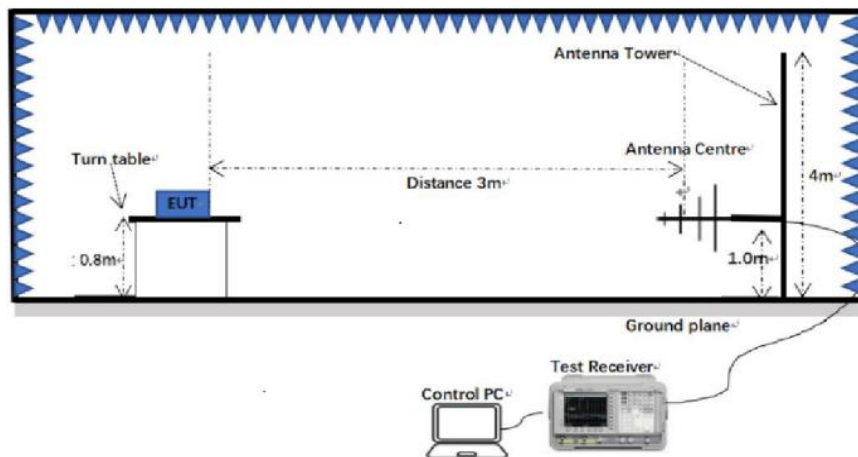
*Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.*

### 6.11.2 Test setup

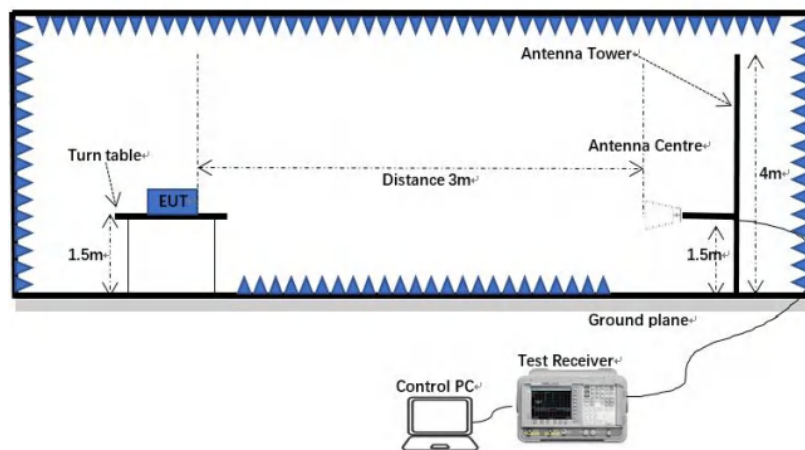
Below 1GHz:



30MHz-1GHz:



Above 1GHz:



### 6.11.3 Procedure

- a) For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b) For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c) 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.
- d) 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.
- e) 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) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g) 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.
- h) Test the EUT in the lowest channel, the middle channel, the highest channel.
- i) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j) Repeat above procedures until all frequencies measured was complete.

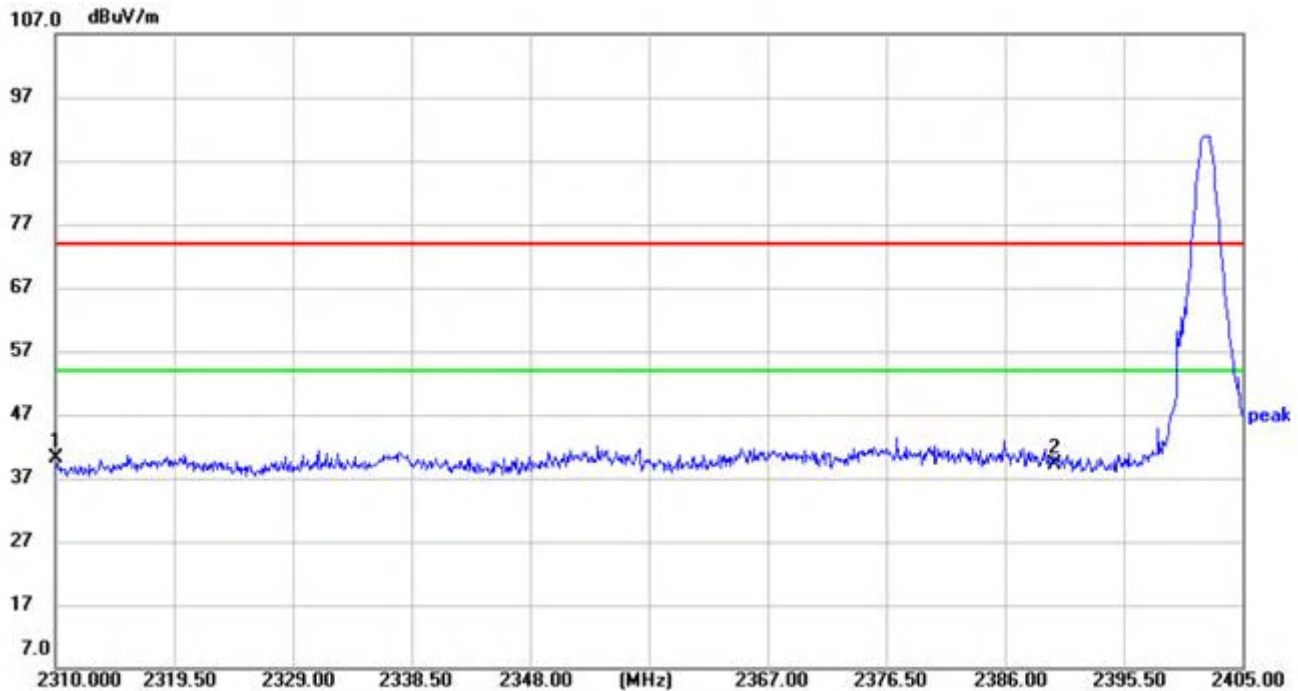
*Note 1: Level (dBuV) = Reading (dBuV) + Factor (dB/m)*

*Note 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.*

#### 6.11.4 Test data

Remark: During the test, the Radiates Emission restricted bands from above 1GHz was performed in all modes, only the worst case for 8DPSK was recorded in the report.

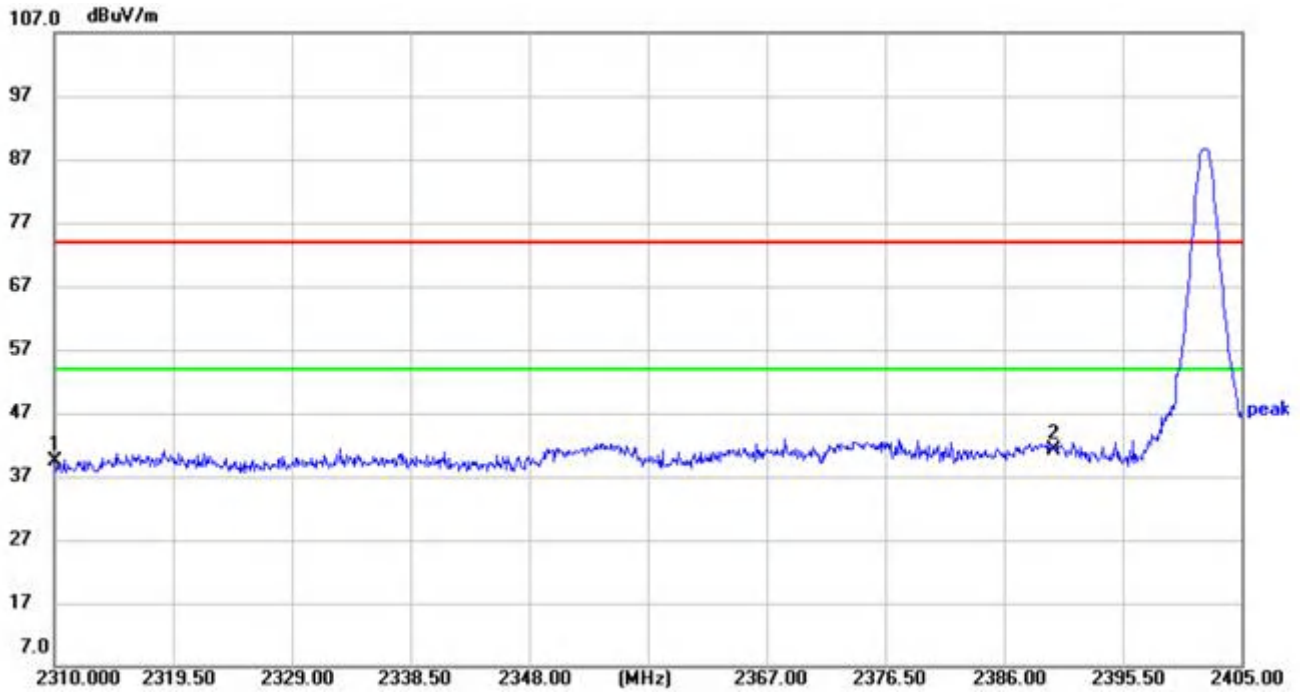
[Test mode: TX low channel]; [Polarity: Horizontal]



| 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 |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|
| 1   | *   | 2310.000     | 43.06                    | -2.87                   | 40.19                      | 74.00           | -33.81     | peak     |
| 2   |     | 2390.000     | 41.50                    | -2.44                   | 39.06                      | 74.00           | -34.94     | peak     |

**Test Result: Pass**

[Test mode:TX low channel]; [Polarity: Vertical]



| 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 |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|
| 1   |     | 2310.000     | 42.27                    | -2.87                   | 39.40                      | 74.00           | -34.60     | peak     |
| 2   | *   | 2390.000     | 43.67                    | -2.44                   | 41.23                      | 74.00           | -32.77     | peak     |

**Test Result: Pass**

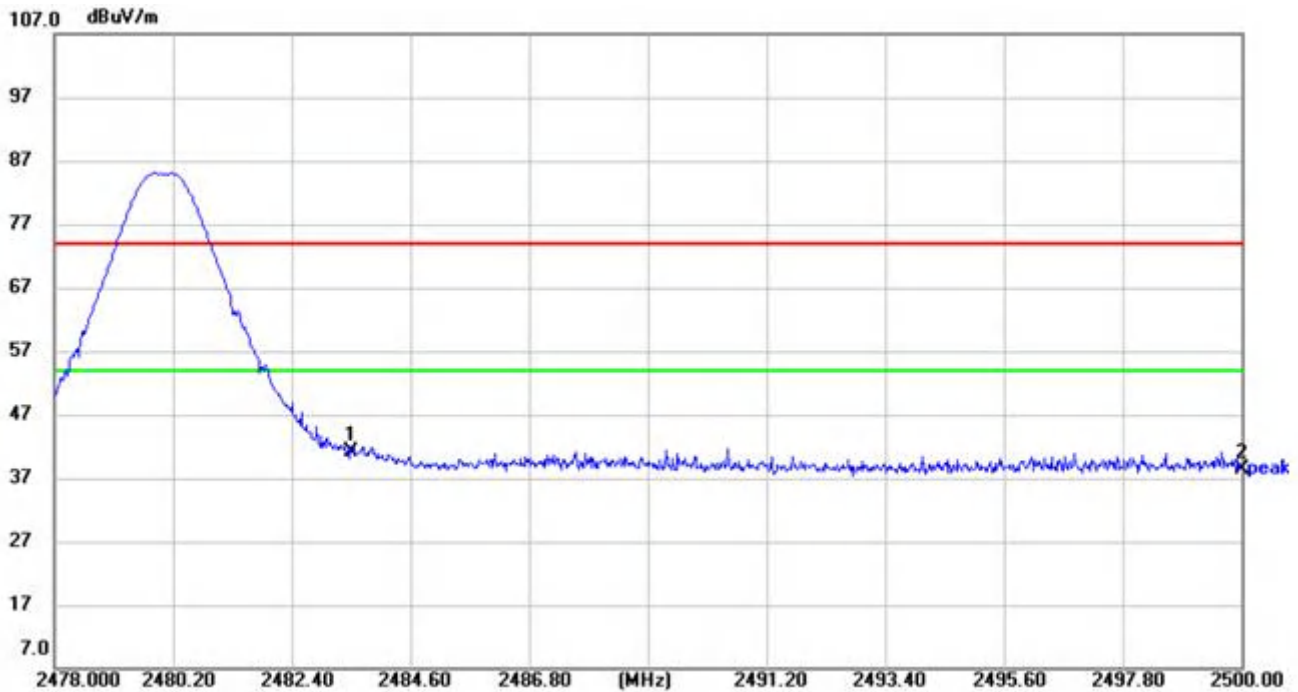
[Test mode: TX High channel]; [Polarity: Horizontal]



| 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 |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|
| 1   | *   | 2483.500     | 45.68                    | -2.91                   | 42.77                      | 74.00           | -31.23     | peak     |
| 2   |     | 2500.000     | 43.92                    | -3.00                   | 40.92                      | 74.00           | -33.08     | peak     |

Test Result: Pass

[Test mode:TX High channel]; [Polarity: Vertical]



| 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 |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|
| 1   | *   | 2483.500     | 43.99                    | -2.91                   | 41.08                      | 74.00           | -32.92     | peak     |
| 2   |     | 2500.000     | 41.27                    | -3.00                   | 38.27                      | 74.00           | -35.73     | peak     |

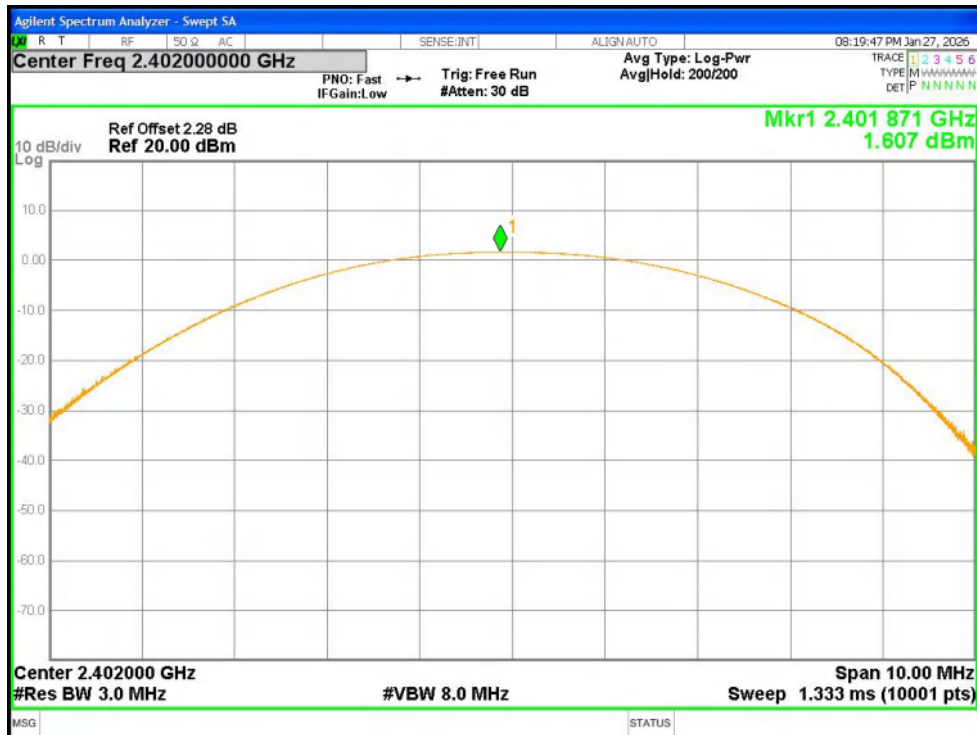
**Test Result: Pass**

## 7 Appendix A

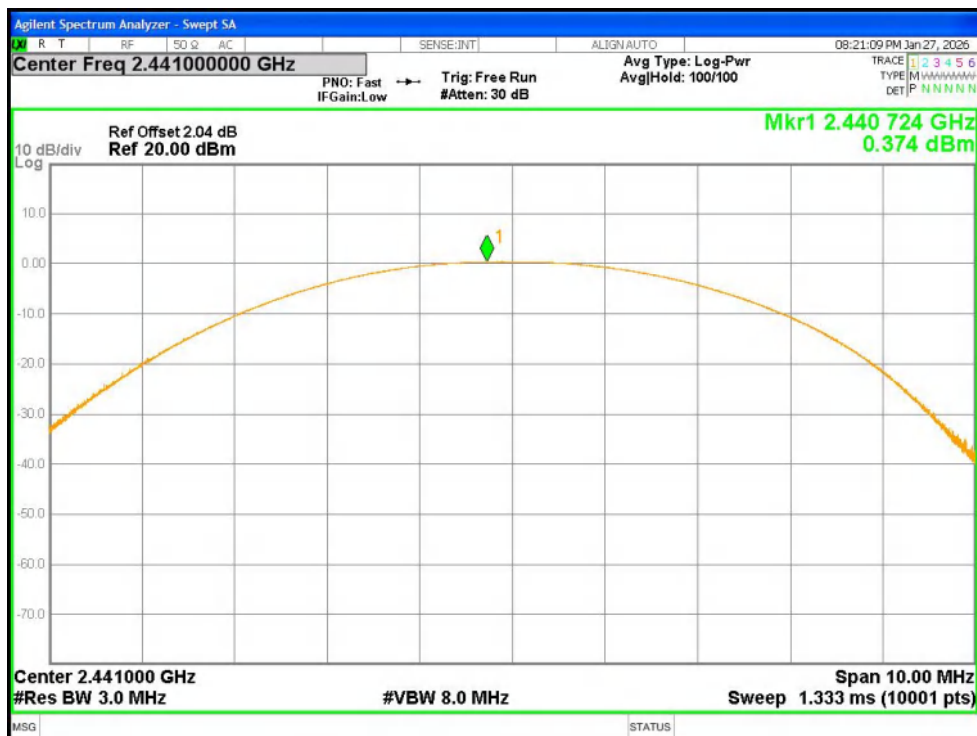
### 7.1 Maximum Conducted Output Power

| Condition | Mode  | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|-------|-----------------|---------|-----------------------|-------------|---------|
| NVNT      | 1-DH1 | 2402            | Ant1    | 1.607                 | 21          | Pass    |
| NVNT      | 1-DH1 | 2441            | Ant1    | 0.374                 | 21          | Pass    |
| NVNT      | 1-DH1 | 2480            | Ant1    | -0.802                | 21          | Pass    |
| NVNT      | 2-DH1 | 2402            | Ant1    | 2.513                 | 21          | Pass    |
| NVNT      | 2-DH1 | 2441            | Ant1    | 1.244                 | 21          | Pass    |
| NVNT      | 2-DH1 | 2480            | Ant1    | 0.064                 | 21          | Pass    |
| NVNT      | 3-DH1 | 2402            | Ant1    | <b>3.111</b>          | 21          | Pass    |
| NVNT      | 3-DH1 | 2441            | Ant1    | 1.867                 | 21          | Pass    |
| NVNT      | 3-DH1 | 2480            | Ant1    | 0.707                 | 21          | Pass    |

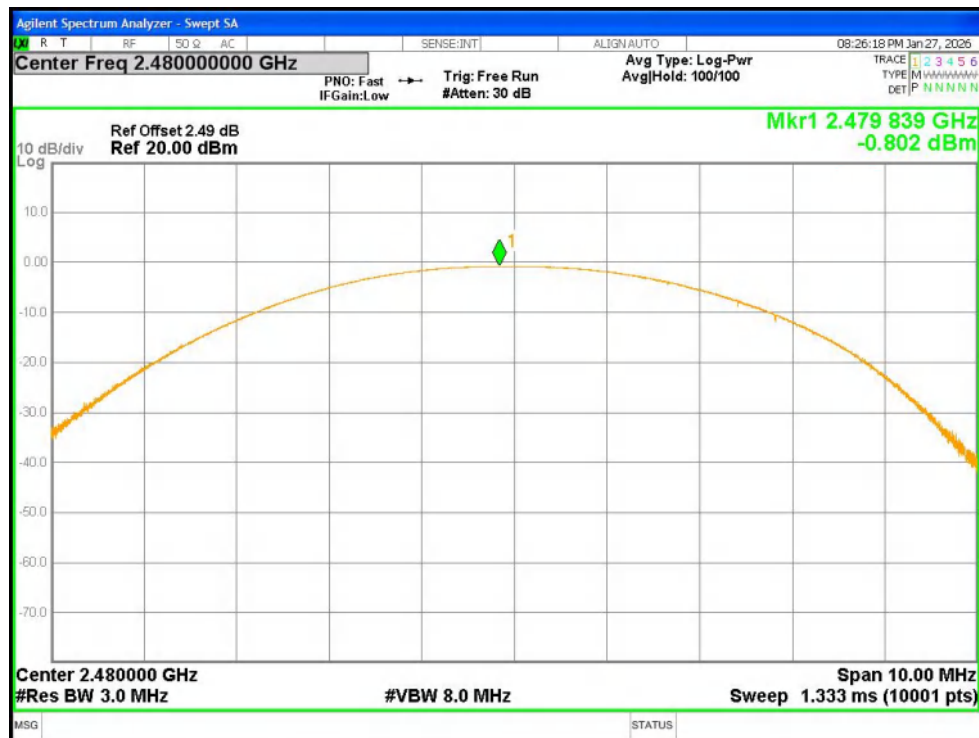
Power NVNT 1-DH1 2402MHz Ant1



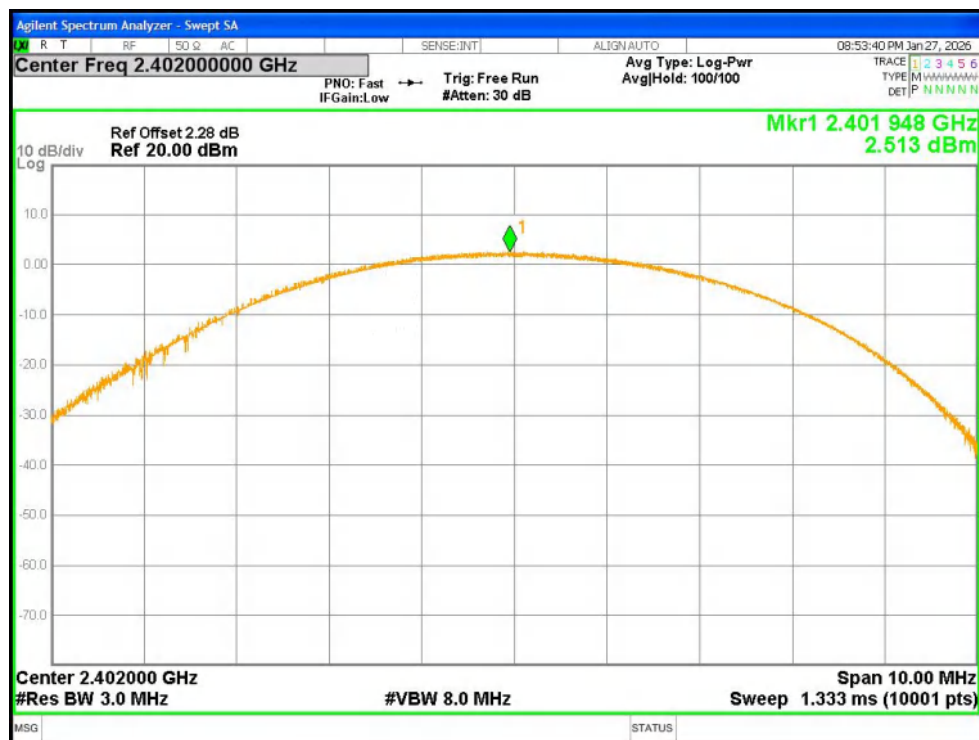
Power NVNT 1-DH1 2441MHz Ant1



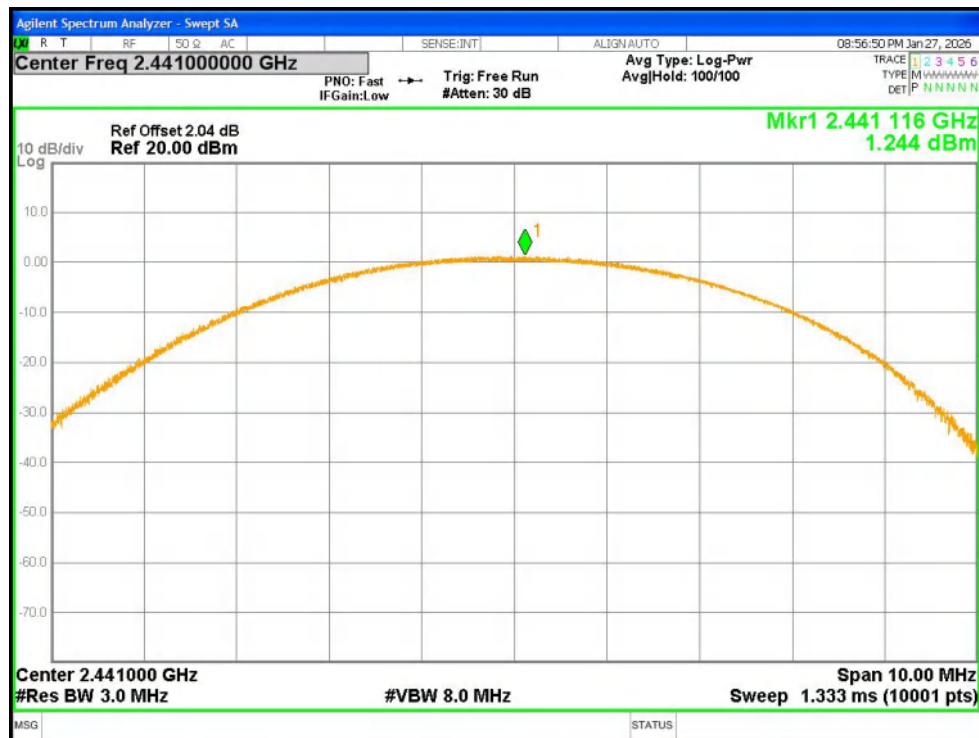
Power NVNT 1-DH1 2480MHz Ant1



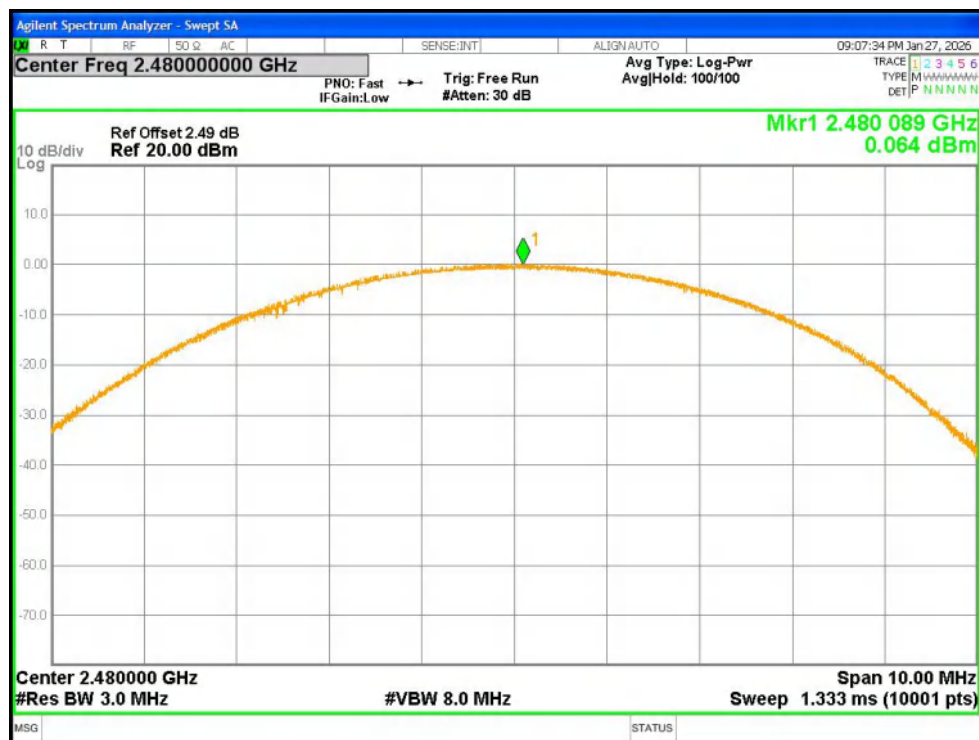
Power NVNT 2-DH1 2402MHz Ant1



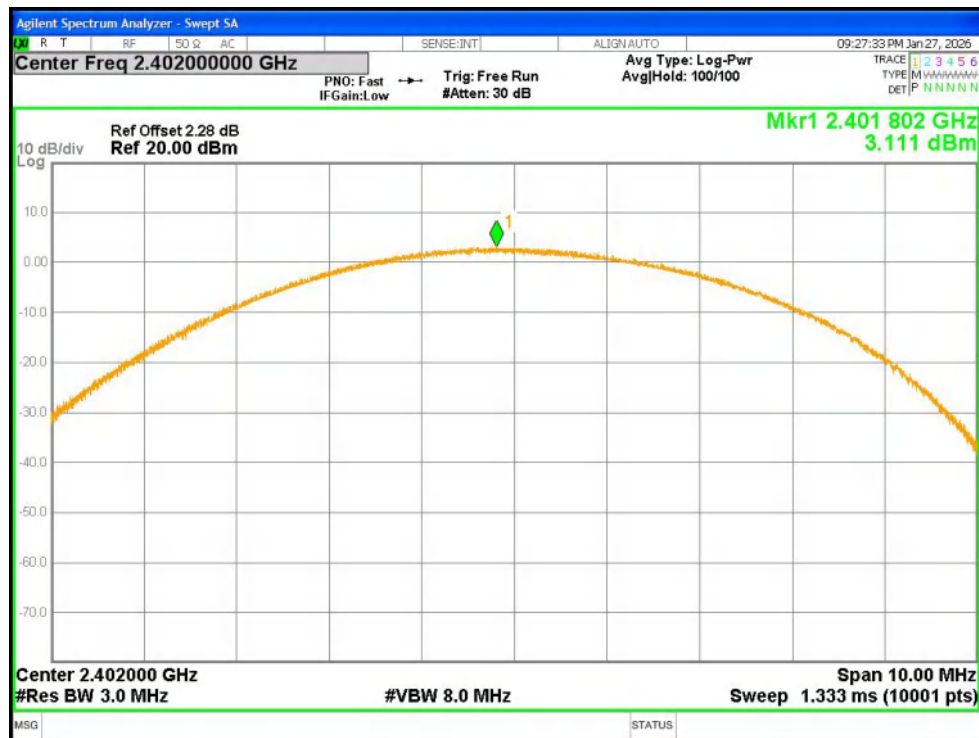
Power NVNT 2-DH1 2441MHz Ant1



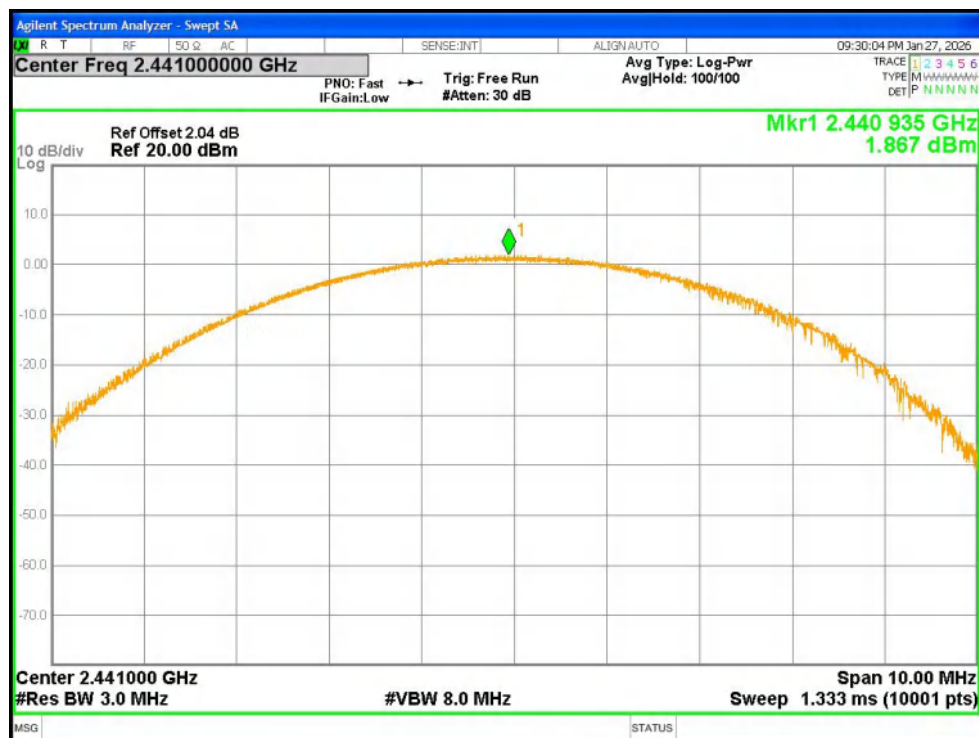
Power NVNT 2-DH1 2480MHz Ant1



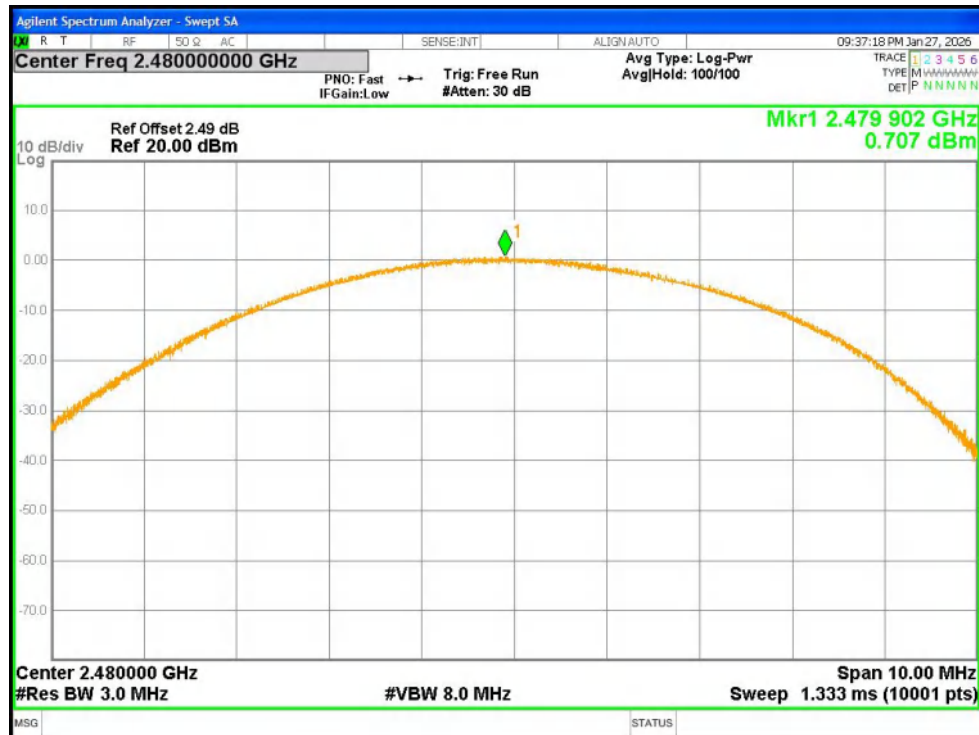
Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1



Power NVNT 3-DH1 2480MHz Ant1



## 7.2 -20dB Bandwidth

| Condition | Mode  | Frequency (MHz) | Antenna | -20 dB Bandwidth (MHz) | Limit -20 dB Bandwidth (MHz) | Verdict |
|-----------|-------|-----------------|---------|------------------------|------------------------------|---------|
| NVNT      | 1-DH1 | 2402            | Ant1    | 0.874                  | N/A                          | Pass    |
| NVNT      | 1-DH1 | 2441            | Ant1    | 0.872                  | N/A                          | Pass    |
| NVNT      | 1-DH1 | 2480            | Ant1    | 0.875                  | N/A                          | Pass    |
| NVNT      | 2-DH1 | 2402            | Ant1    | 1.249                  | N/A                          | Pass    |
| NVNT      | 2-DH1 | 2441            | Ant1    | 1.247                  | N/A                          | Pass    |
| NVNT      | 2-DH1 | 2480            | Ant1    | 1.25                   | N/A                          | Pass    |
| NVNT      | 3-DH1 | 2402            | Ant1    | 1.243                  | N/A                          | Pass    |
| NVNT      | 3-DH1 | 2441            | Ant1    | 1.216                  | N/A                          | Pass    |
| NVNT      | 3-DH1 | 2480            | Ant1    | 1.217                  | N/A                          | Pass    |