

# FCC Test Report

Report No.: AGC01110251216FR02

**FCC ID** : 2A0KB-D1204L

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION** : Wireless Headphone

**BRAND NAME** : soundcore

**MODEL NAME** : D1204

**APPLICANT** : Anker Innovations Limited

**DATE OF ISSUE** : Feb. 05, 2026

**STANDARD(S)** : FCC Part 15 Subpart C §15.247

**REPORT VERSION** : V1.0

Attestation Of Global Compliance (Shenzhen) Co., Ltd



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**Report Revise Record**

| Report Version | Revise Time | Issued Date   | Valid Version | Notes           |
|----------------|-------------|---------------|---------------|-----------------|
| V1.0           | /           | Feb. 05, 2026 | Valid         | Initial Release |

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## 1. General Information

|                              |                                                                            |
|------------------------------|----------------------------------------------------------------------------|
| Applicant                    | Anker Innovations Limited                                                  |
| Address                      | Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong |
| Manufacturer                 | Anker Innovations Limited                                                  |
| Address                      | Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong |
| Factory                      | N/A                                                                        |
| Address                      | N/A                                                                        |
| Product Designation          | Wireless Headphone                                                         |
| Brand Name                   | soundcore                                                                  |
| Test Model                   | D1204                                                                      |
| Series Model(s)              | N/A                                                                        |
| Difference Description       | N/A                                                                        |
| Date of receipt of test item | Dec. 04, 2025                                                              |
| Date of Test                 | Dec. 04, 2025 to Feb. 05, 2026                                             |
| Deviation from Standard      | No any deviation from the test method                                      |
| Condition of Test Sample     | Normal                                                                     |
| Test Result                  | Pass                                                                       |
| Test Report Form No          | AGCER-FCC-BLE-V1                                                           |

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

|             |                                                                                     |               |
|-------------|-------------------------------------------------------------------------------------|---------------|
| Prepared By |  |               |
|             | Cool Cheng                                                                          | Feb. 05, 2026 |
|             | (Project Engineer)                                                                  |               |
| Reviewed By |  |               |
|             | Bibo Zhang                                                                          | Feb. 05, 2026 |
|             | (Reviewer)                                                                          |               |
| Approved By |  |               |
|             | Angela Li                                                                           | Feb. 05, 2026 |
|             | (Authorized Officer)                                                                |               |

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## 2. Product Information

### 2.1 Product Technical Description

|                                   |                                                                                                   |
|-----------------------------------|---------------------------------------------------------------------------------------------------|
| Technology Type                   | Bluetooth Low Energy                                                                              |
| Frequency Band                    | 2400MHz-2483.5MHz                                                                                 |
| Operation Frequency Range         | 2402MHz-2480MHz                                                                                   |
| Bluetooth Version                 | V6.1                                                                                              |
| Modulation Type                   | BLE <input checked="" type="checkbox"/> GFSK 1Mbps <input checked="" type="checkbox"/> GFSK 2Mbps |
| Number of channels                | 40                                                                                                |
| Carrier Frequency of Each Channel | 40 Channels (37 Data channels + 3 Advertising channels)                                           |
| Channel Separation                | 2 MHz                                                                                             |
| Maximum Transmitter Power         | 2.370dBm                                                                                          |
| Hardware Version                  | V2.4                                                                                              |
| Software Version                  | V3.18                                                                                             |
| Antenna Designation               | LDS Antenna                                                                                       |
| Antenna Gain                      | -4.7dBi                                                                                           |
| Power Supply                      | DC 3.85V by battery or DC 5V by adapter                                                           |

### 2.2 Test Frequency List

| Frequency Band                                                                                                           | Channel Number | Test Frequency |
|--------------------------------------------------------------------------------------------------------------------------|----------------|----------------|
| 2400~2483.5MHz                                                                                                           | 0              | 2402 MHz       |
|                                                                                                                          | 1              | 2404 MHz       |
|                                                                                                                          | :              | :              |
|                                                                                                                          | 19             | 2440MHz        |
|                                                                                                                          | :              | :              |
|                                                                                                                          | 38             | 2478 MHz       |
|                                                                                                                          | 39             | 2480 MHz       |
| Note: $f = 2402 + 2 \cdot k$ MHz, $k = 0, \dots, 39$ $f$ is the operating frequency (MHz); $k$ is the operating channel. |                |                |

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### 2.3 Related Submittal(S) / Grant (S)

This submittal(s) (test report) is intended for FCC ID: **2AOKB-D1204L**, filing to comply with Part 2, Part 15 of the Federal Communication Commission rules.

### 2.4 Test Methodology

The tests were performed according to following standards:

| No. | Identity                                         | Document Title                                                                                                                                                                            |
|-----|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | FCC 47 CFR Part 2                                | Frequency allocations and radio treaty matters; general rules and regulations                                                                                                             |
| 2   | FCC 47 CFR Part 15                               | Radio Frequency Devices                                                                                                                                                                   |
| 3   | ANSI C63.10-2020                                 | American National Standard for Testing Unlicensed Wireless Devices                                                                                                                        |
| 4   | KDB 558074<br>D01 15.247 Meas<br>Guidance v05r02 | Guidance for compliance measurements on Digital Transmission Systems, Frequency Hopping Spread Spectrum system, and Hybrid system devices operating under Section 15.247 of the FCC rules |

### 2.5 Special Accessories

Not available for this EUT intended for grant.

### 2.6 Equipment Modifications

Not available for this EUT intended for grant.

### 2.7 Antenna Requirement

| Standard Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>15.203 requirement:</b><br>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.                                                                                                     |
| <b>15.247(b) (4) requirement:</b><br>The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi |
| EUT Antenna                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| The non-detachable antenna inside the device cannot be replaced by the user at will. The gain of the antenna is -4.7dBi.                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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### 3. Test Environment

#### 3.1 Address of the Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

#### 3.2 Test Facility

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

##### **CNAS-Lab Code: L5488**

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories).

##### **A2LA-Lab Cert. No.: 5054.02**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

##### **FCC-Registration No.: 975832**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

##### **IC-Registration No.: 24842 (CAB identifier: CN0063)**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

### 3.3 Environmental Conditions

|                         | Normal Conditions |
|-------------------------|-------------------|
| Temperature range (°C)  | 15 - 35           |
| Relative humidity range | 20 % - 75 %       |
| Pressure range (kPa)    | 86 - 106          |

### 3.4 Measurement Uncertainty

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

| Item                                          | Measurement Uncertainty    |
|-----------------------------------------------|----------------------------|
| Uncertainty of Conducted Emission for AC Port | $U_c = \pm 2.9 \text{ dB}$ |
| Uncertainty of Radiated Emission below 1GHz   | $U_c = \pm 3.9 \text{ dB}$ |
| Uncertainty of Radiated Emission above 1GHz   | $U_c = \pm 4.9 \text{ dB}$ |
| Uncertainty of total RF Power, Conducted      | $U_c = \pm 0.8 \text{ dB}$ |
| Uncertainty of RF Power Density, Conducted    | $U_c = \pm 2.6 \text{ dB}$ |
| Uncertainty of Spurious Emissions, Conducted  | $U_c = \pm 2 \%$           |
| Uncertainty of Occupied Channel Bandwidth     | $U_c = \pm 2 \%$           |
| Uncertainty of Duty Cycle                     | $U_c = \pm 2 \%$           |

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### 3.5 List of Equipment Use

| ● RF Conducted Test System          |               |                      |               |               |                    |                           |                           |
|-------------------------------------|---------------|----------------------|---------------|---------------|--------------------|---------------------------|---------------------------|
| Used                                | Equipment No. | Test Equipment       | Manufacturer  | Model No.     | Serial No.         | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) |
| <input checked="" type="checkbox"/> | AGC-ER-E036   | Spectrum Analyzer    | Agilent       | N9020A        | MY49100060         | 2025-05-08                | 2026-05-07                |
| <input checked="" type="checkbox"/> | AGC-ER-A007   | 6dB Fixed Attenuator | Mini circuits | BW-S6-2W263A+ | N/A                | 2025-01-30                | 2026-01-29                |
| <input checked="" type="checkbox"/> | AGC-ER-A007   | 6dB Fixed Attenuator | Mini circuits | BW-S6-2W263A+ | N/A                | 2026-01-31                | 2028-01-30                |
| <input checked="" type="checkbox"/> | N/A           | RF Connection Cable  | N/A           | 1#            | N/A                | Each time                 | N/A                       |
| <input checked="" type="checkbox"/> | N/A           | RF Connection Cable  | N/A           | 2#            | N/A                | Each time                 | N/A                       |
| <input type="checkbox"/>            | AGC-ER-E091   | DC Power Supply      | AIDEKESI      | IT6720        | 800103030787810080 | 2024-03-28                | 2026-03-27                |

| ● Radiated Spurious Emission        |               |                               |              |            |            |                           |                           |
|-------------------------------------|---------------|-------------------------------|--------------|------------|------------|---------------------------|---------------------------|
| Used                                | Equipment No. | Test Equipment                | Manufacturer | Model No.  | Serial No. | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) |
| <input checked="" type="checkbox"/> | AGC-EM-E046   | EMI Test Receiver             | R&S          | ESCI       | 100096     | 2025-01-14                | 2026-01-13                |
| <input checked="" type="checkbox"/> | AGC-EM-E046   | EMI Test Receiver             | R&S          | ESCI       | 100096     | 2026-01-13                | 2027-01-12                |
| <input type="checkbox"/>            | AGC-EM-E116   | EMI Test Receiver             | R&S          | ESCI       | 100034     | 2025-05-08                | 2026-05-07                |
| <input checked="" type="checkbox"/> | AGC-EM-E061   | Spectrum Analyzer             | Agilent      | N9010A     | MY53470504 | 2025-05-08                | 2026-05-07                |
| <input checked="" type="checkbox"/> | AGC-EM-E086   | Loop Antenna                  | ZHINAN       | ZN30900C   | 18051      | 2024-03-05                | 2026-03-04                |
| <input checked="" type="checkbox"/> | AGC-EM-E001   | Wideband Antenna              | SCHWARZBECK  | VULB9168   | D69250     | 2025-03-14                | 2027-03-13                |
| <input checked="" type="checkbox"/> | AGC-EM-E029   | Broadband Ridged Horn Antenna | ETS          | 3117       | 00034609   | 2025-03-27                | 2026-03-26                |
| <input checked="" type="checkbox"/> | AGC-EM-E082   | Horn Antenna                  | SCHWARZBECK  | BBHA 9170  | #768       | 2025-09-10                | 2027-09-09                |
| <input checked="" type="checkbox"/> | AGC-EM-E146   | Pre-amplifier                 | ETS          | 3117-PA    | 00246148   | 2024-07-24                | 2026-07-23                |
| <input checked="" type="checkbox"/> | AGC-EM-A119   | 2.4GHz Filter                 | SongYi       | N/A        | N/A        | 2025-05-16                | 2026-05-15                |
| <input checked="" type="checkbox"/> | AGC-EM-A138   | 6dB Attenuator                | Eeatsheep    | LM-XX-6-5W | N/A        | 2025-05-16                | 2027-05-15                |
| <input type="checkbox"/>            | AGC-EM-A139   | 6dB Attenuator                | Eeatsheep    | LM-XX-6-5W | N/A        | 2025-05-16                | 2027-05-15                |

| ● AC Power Line Conducted Emission  |               |                   |               |           |            |                           |                           |
|-------------------------------------|---------------|-------------------|---------------|-----------|------------|---------------------------|---------------------------|
| Used                                | Equipment No. | Test Equipment    | Manufacturer  | Model No. | Serial No. | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) |
| <input checked="" type="checkbox"/> | AGC-EM-E116   | EMI Test Receiver | R&S           | ESCI      | 100034     | 2025-05-08                | 2026-05-07                |
| <input checked="" type="checkbox"/> | AGC-EM-A171   | Attenuator        | Mini-Circuits | UNAT-10A+ | DC-6GZ     | 2024-02-01                | 2026-01-31                |
| <input checked="" type="checkbox"/> | AGC-EM-A171   | Attenuator        | Mini-Circuits | UNAT-10A+ | DC-6GZ     | 2026-01-13                | 2028-01-12                |
| <input checked="" type="checkbox"/> | AGC-EM-E023   | AMN               | R&S           | ESH2-Z5   | 100086     | 2025-05-08                | 2026-05-07                |

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| ● Test Software                     |               |                     |              |                                 |                     |
|-------------------------------------|---------------|---------------------|--------------|---------------------------------|---------------------|
| Used                                | Equipment No. | Test Equipment      | Manufacturer | Model No.                       | Version Information |
| <input checked="" type="checkbox"/> | AGC-EM-S001   | CE Test System      | R&S          | ES-K1                           | V1.71               |
| <input checked="" type="checkbox"/> | AGC-EM-S003   | RE Test System      | FARA         | EZ-EMC                          | VRA-03A             |
| <input type="checkbox"/>            | AGC-EM-S004   | RE Test System      | Tonscend     | TS <sup>+</sup> Ver2.1(JS32-RE) | 4.0.0.0             |
| <input checked="" type="checkbox"/> | AGC-ER-S012   | BT/WIFI Test System | Tonscend     | JS1120-2                        | 2.6                 |
| <input checked="" type="checkbox"/> | AGC-EM-S011   | RSE Test System     | Tonscend     | TS+-Ver2.1(JS36-RSE)            | 4.0.0.0             |

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## 4. System Test Configuration

### 4.1 EUT Configuration

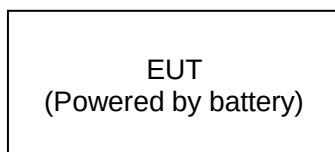
The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 4.2 EUT Exercise

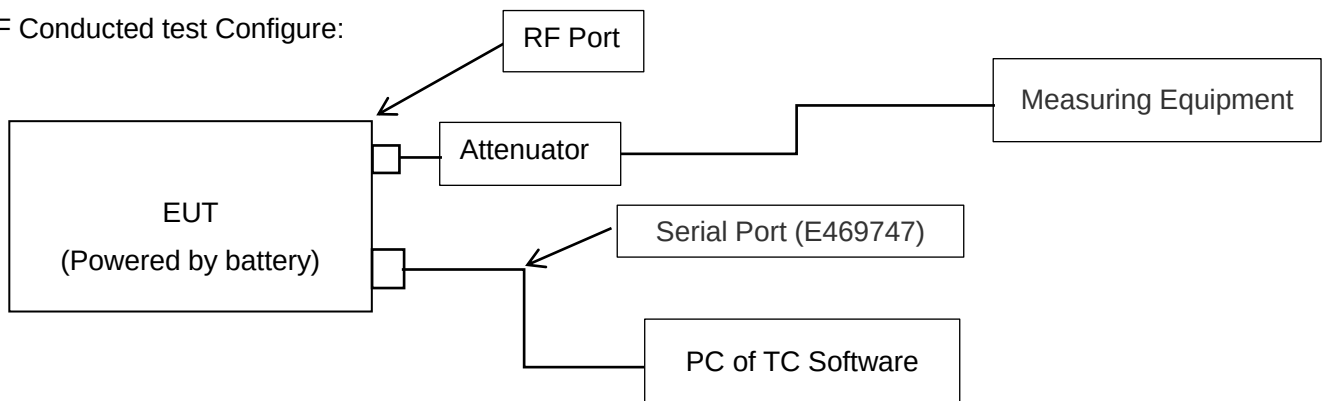
The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

### 4.3 Configuration of Tested System

Radiated Emission Configure:



RF Conducted test Configure:



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#### 4.4 Equipment Used In Tested System

The following peripheral devices and interface cables were connected during the measurement:

☒ Test Accessories Come From The Laboratory

| No. | Equipment         | Manufacturer | Model No.   | Serial No.       | Specification Information | Cable           |
|-----|-------------------|--------------|-------------|------------------|---------------------------|-----------------|
| 1   | Redmi Notebook PC | Redmi        | XMA2002-A G | 39173/82S C06732 | N/A                       | 1.2m,unshielded |
| 2   | Control Box       | RISYM        | USB-TTL     | N/A              | N/A                       | N/A             |

☐ Test Accessories Come From The Manufacturer

| No. | Equipment | Manufacturer | Model No. | Serial No. | Specification Information | Cable |
|-----|-----------|--------------|-----------|------------|---------------------------|-------|
| 1   | N/A       | N/A          | N/A       | N/A        | N/A                       | N/A   |

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#### 4.5 Summary of Test Results

| Item | FCC Rules            | Description of Test                           | Result         |
|------|----------------------|-----------------------------------------------|----------------|
| 1    | §15.203&15.247(b)(4) | Antenna Equipment                             | Pass           |
| 2    | §15.247 (b)(3)       | RF Output Power                               | Pass           |
| 3    | §15.247 (a)(2)       | 6 dB Bandwidth                                | Pass           |
| 4    | §15.247 (e)          | Power Spectral Density                        | Pass           |
| 5    | §15.247 (d)          | Conducted Band Edge and Out-of-Band Emissions | Pass           |
| 6    | §15.209              | Radiated Emission& Band Edge                  | Pass           |
| 7    | §15.207              | AC Power Line Conducted Emission              | Not applicable |

Note: The device under test is battery-powered and does not require evaluation of AC Power Line Conducted Emission.

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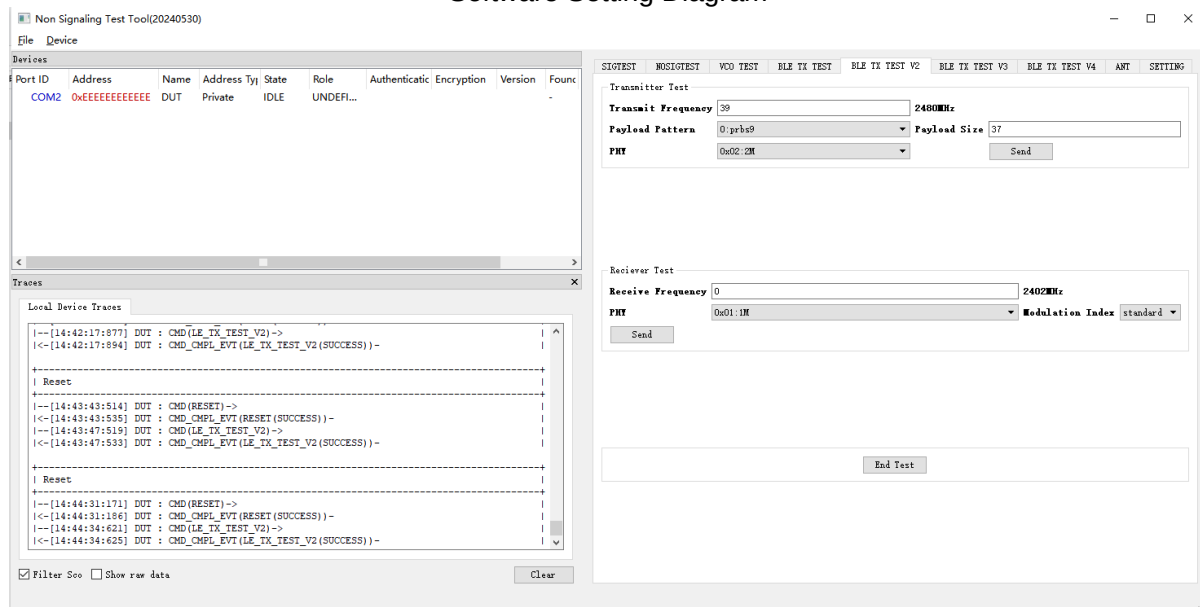
## 5. Description of Test Modes

| Summary Table of Test Cases     |                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Item                       | Data Rate / Modulation                                                                                                                                                                                                                                                                                                                                                     |
|                                 | Bluetooth-LE(1Mbps/2Mbps)/GFSK                                                                                                                                                                                                                                                                                                                                             |
| Radiated & Conducted Test Cases | Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps(Battery powered)<br>Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps(Battery powered)<br>Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps(Battery powered)<br>Mode 4: Bluetooth Tx CH00_2402 MHz_2Mbps(Battery powered)<br>Mode 5: Bluetooth Tx CH19_2440 MHz_2Mbps(Battery powered)<br>Mode 6: Bluetooth Tx CH39_2480 MHz_2Mbps(Battery powered) |
| AC Conducted Emission           | Not applicable                                                                                                                                                                                                                                                                                                                                                             |

Note:

- Only the result of the worst case was recorded in the report, if no other cases.
- The battery is full-charged during the test.
- For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- The manufacturer of RF external cable claims that the cable loss is 1dB, and the cable loss and attenuator have been compensated into the Corrections Configuration of measuring equipment.
- Input correction factor includes external cable loss and attenuator amplitude compensation. The formula is:  
Input compensation coefficient (dB) = Cable Loss (dB) + Attenuator attenuation value (dB)

Software Setting Diagram



The software interface for Non Signaling Test Tool (20240530) is shown. It features a 'Devices' table with columns: Port ID, Address, Name, Address Ty, State, Role, Authentication, Encryption, Version, and Found. A 'Traces' window displays local device traces with timestamps and commands like 'CMD (LE\_TX\_TEST\_V2)~>' and 'CMD (RESET)~>'. The main configuration panel includes 'Transmitter Test' and 'Receiver Test' sections. The 'Transmitter Test' section has fields for 'Transmit Frequency' (2400MHz), 'Payload Pattern' (0:prbs9), 'Payload Size' (37), and 'PHY' (0x02:2M). The 'Receiver Test' section has fields for 'Receive Frequency' (2402MHz), 'PHY' (0x01:1M), and 'Modulation Index' (standard). Buttons for 'Send' and 'End Test' are present.

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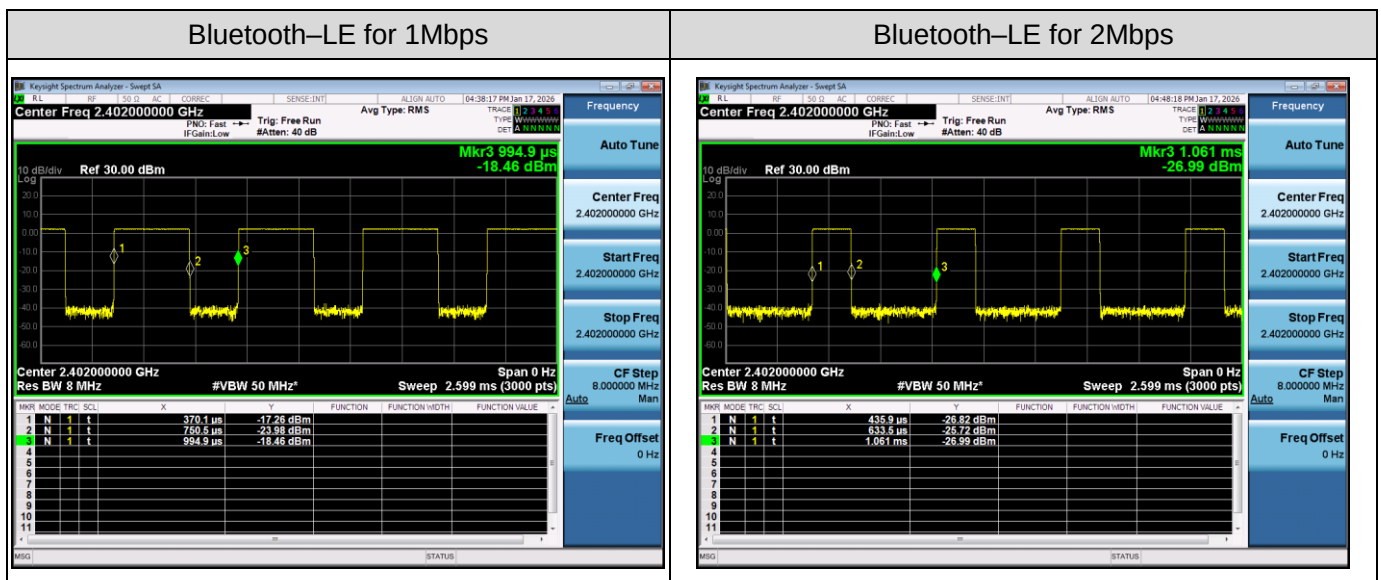
## 6. Duty Cycle Measurement

The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = Peak. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

| Operating mode | T(μs) | Duty Cycle (%) | Duty Cycle Factor (dB) | 1/ T Minimum VBW (kHz) |
|----------------|-------|----------------|------------------------|------------------------|
| BLE_1Mbps      | 380.4 | 60.88          | 2.16                   | 2.63                   |
| BLE_2Mbps      | 197.6 | 31.61          | 5.00                   | 5.06                   |

Remark:

- Duty Cycle factor =  $10 * \log (1/ \text{Duty cycle})$
  - The duty cycle of each frequency band mode reflects the determination requirements of the low channel measurement value
- The test plots as follows:



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## 7. RF Output Power Measurement

### 7.1 Provisions Applicable

For DTSs employing digital modulation techniques operating in the bands 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W.

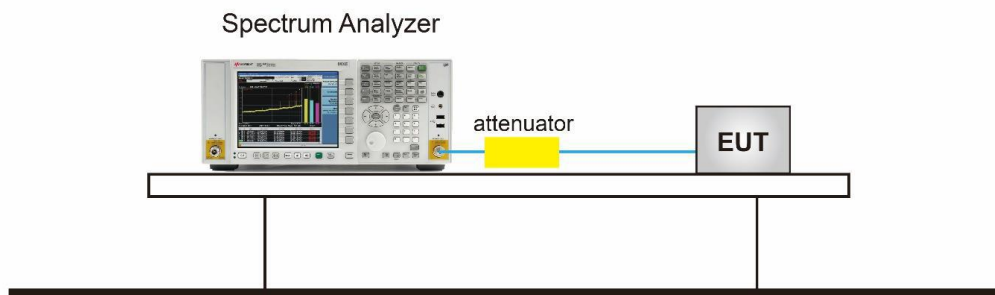
### 7.2 Measurement Procedure

☒ For Peak Power, the testing follows ANSI C63.10 Section 11.9.1.1 Method Max peak power:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the RBW  $\geq$  DTS bandwidth
3. Set the VBW  $\geq$   $[3 \times \text{RBW}]$ .
4. Span  $\geq$   $[3 \times \text{RBW}]$ .
5. Sweep= auto couple.
6. Detector Function= Peak.
7. Trace mode= Max hold.
8. Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

### 7.3 Measurement Setup (Block Diagram of Configuration)

☒ For peak power test setup



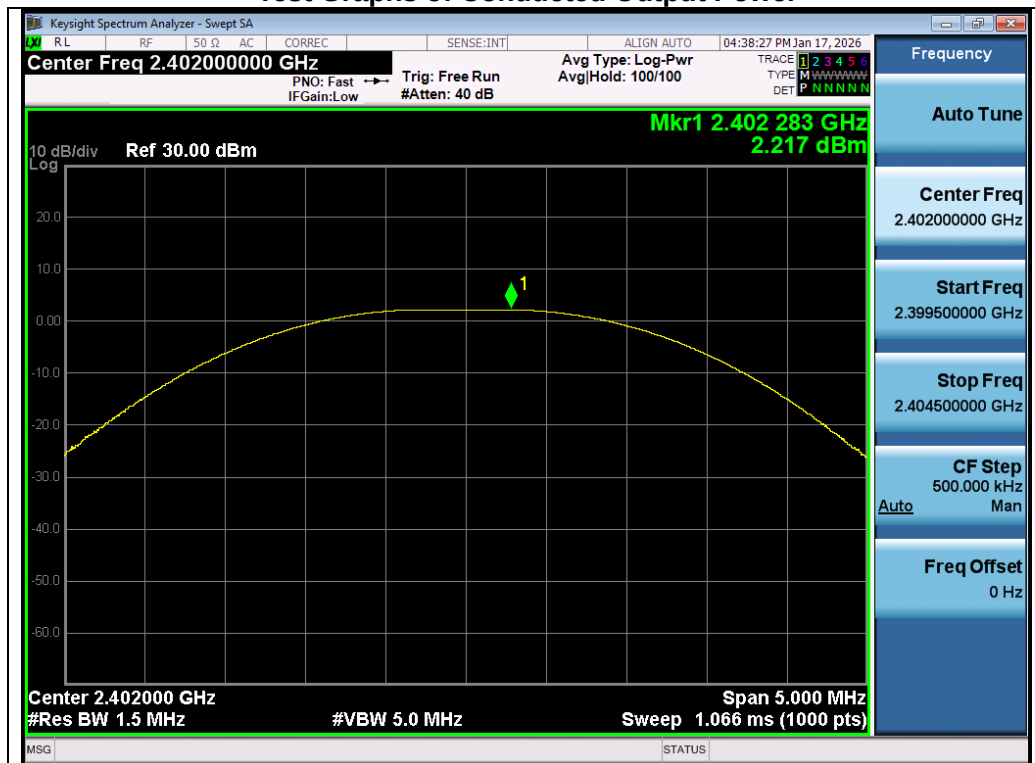
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## 7.4 Measurement Result

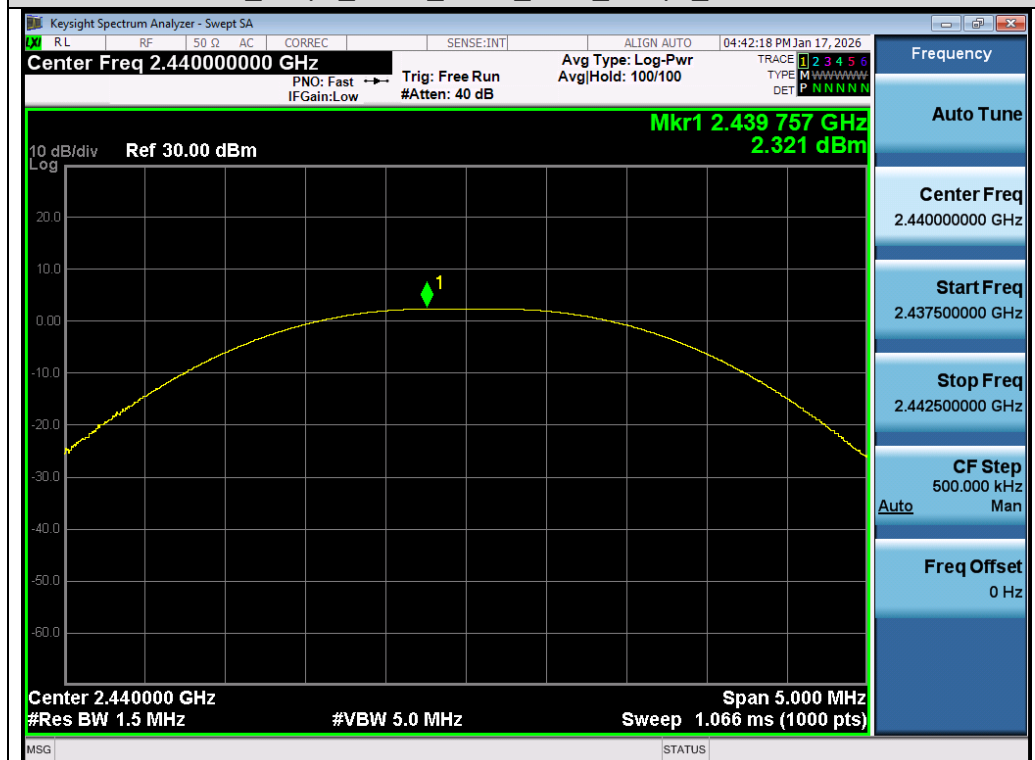
| Test Data of Conducted Output Power |                      |                  |              |              |
|-------------------------------------|----------------------|------------------|--------------|--------------|
| Test Mode                           | Test Frequency (MHz) | Peak Power (dBm) | Limits (dBm) | Pass or Fail |
| GFSK_1Mbps                          | 2402                 | 2.217            | ≤30          | Pass         |
|                                     | 2440                 | 2.321            | ≤30          | Pass         |
|                                     | 2480                 | 2.201            | ≤30          | Pass         |
| GFSK_2Mbps                          | 2402                 | 2.270            | ≤30          | Pass         |
|                                     | 2440                 | 2.370            | ≤30          | Pass         |
|                                     | 2480                 | 2.258            | ≤30          | Pass         |

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### Test Graphs of Conducted Output Power

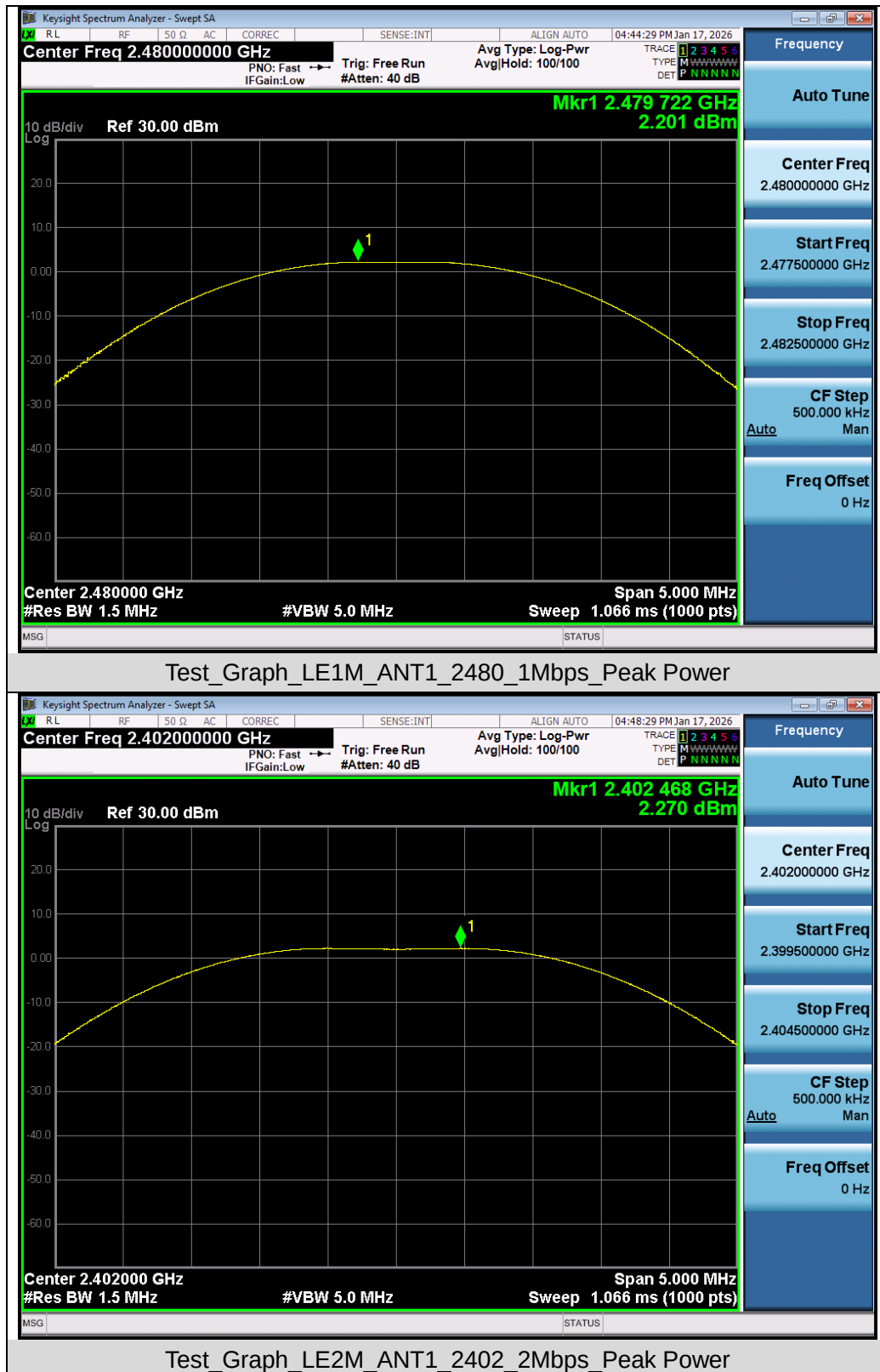


Test\_Graph\_LE1M\_ANT1\_2402\_1Mbps\_Peak Power

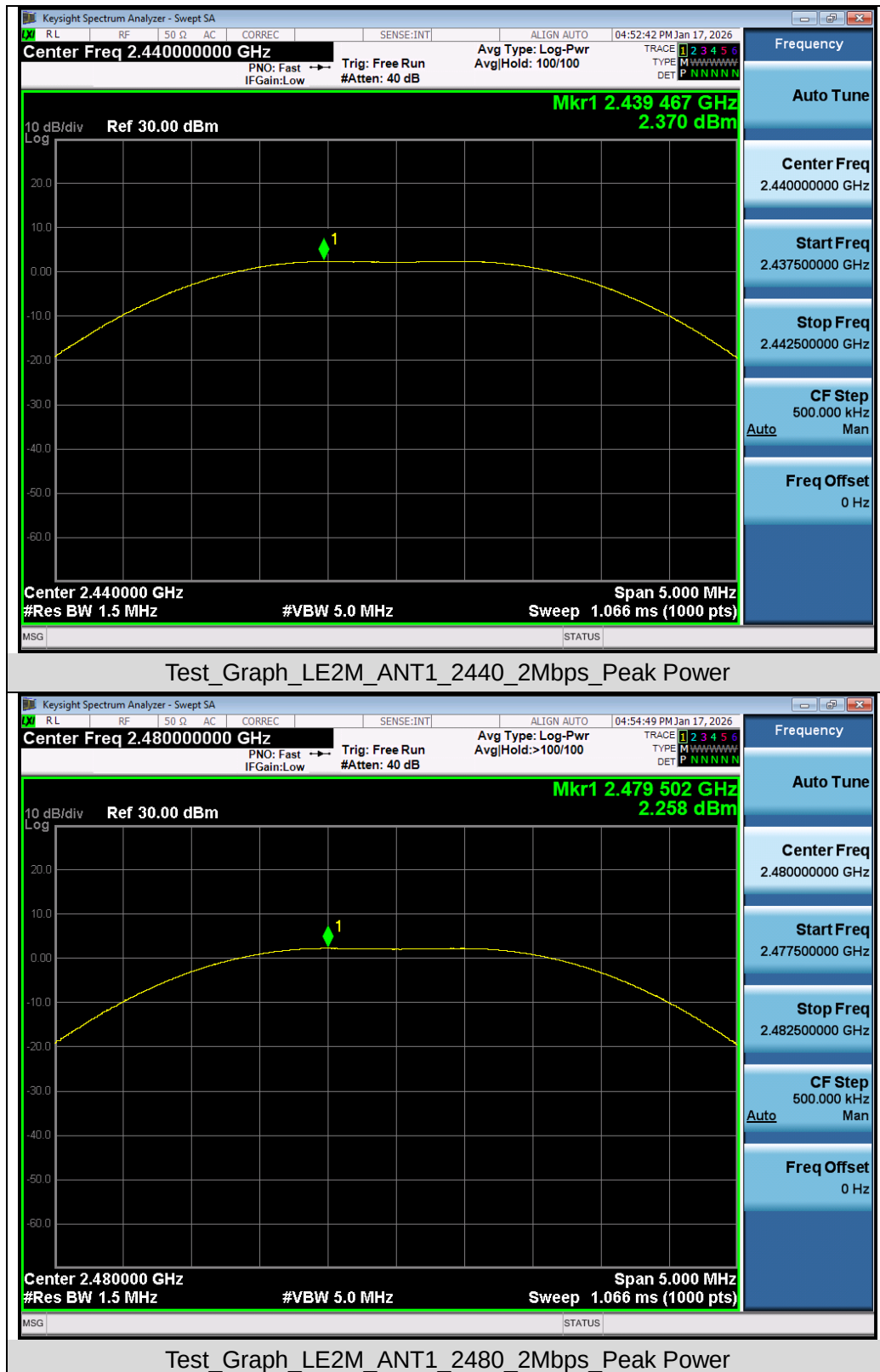


Test\_Graph\_LE1M\_ANT1\_2440\_1Mbps\_Peak Power

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## 8. 6dB Bandwidth Measurement

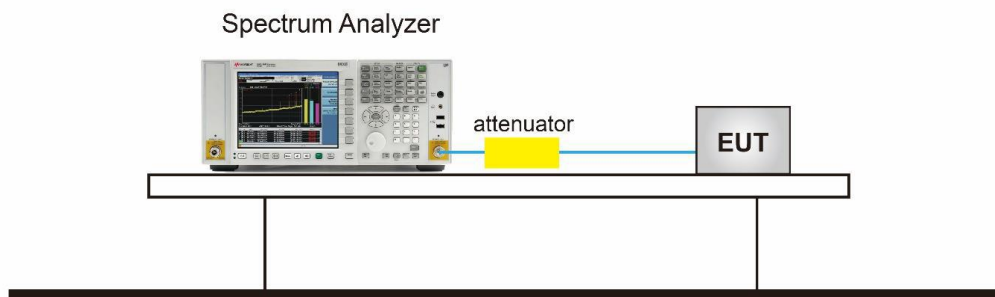
### 8.1 Provisions Applicable

The minimum 6dB bandwidth shall be 500 kHz.

### 8.2 Measurement Procedure

- The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.2(6dB BW).
1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
  2. Set to the maximum power setting and enable the EUT transmit continuously.
  3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz, Set the Video bandwidth (VBW)  $\geq 3 \times$  RBW, In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
  4. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the OBW and set the Video bandwidth (VBW)  $\geq 3 \times$  RBW.
  5. Measure and record the results in the test report.

### 8.3 Measurement Setup (Block Diagram of Configuration)

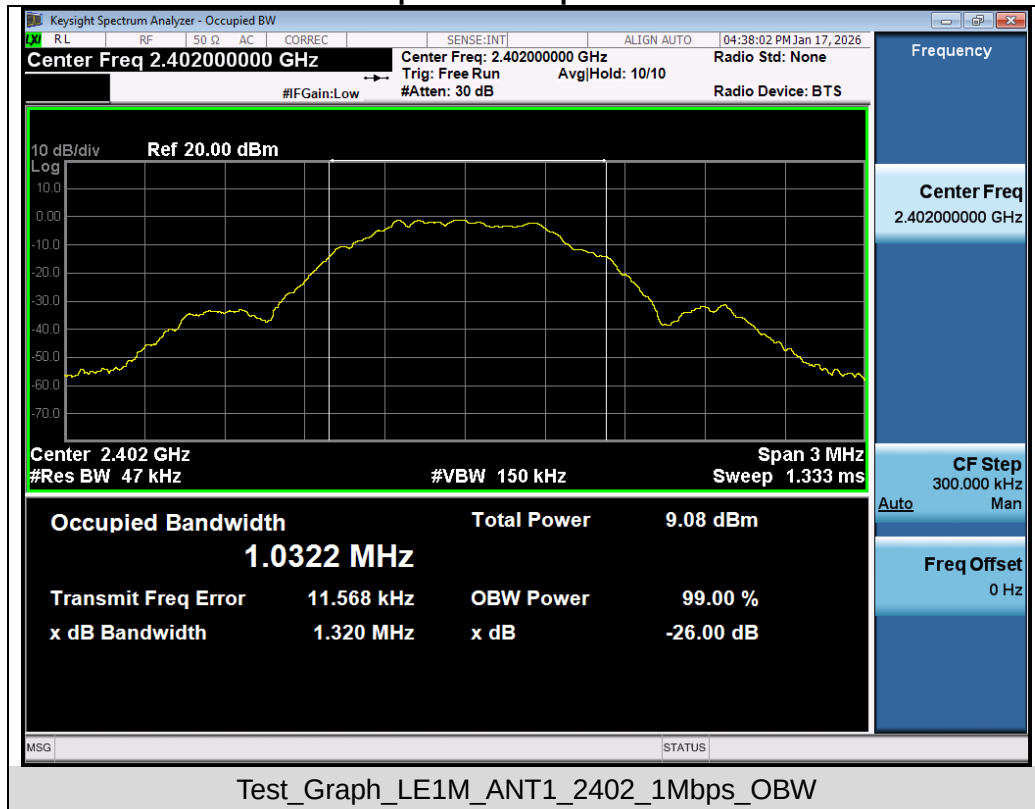


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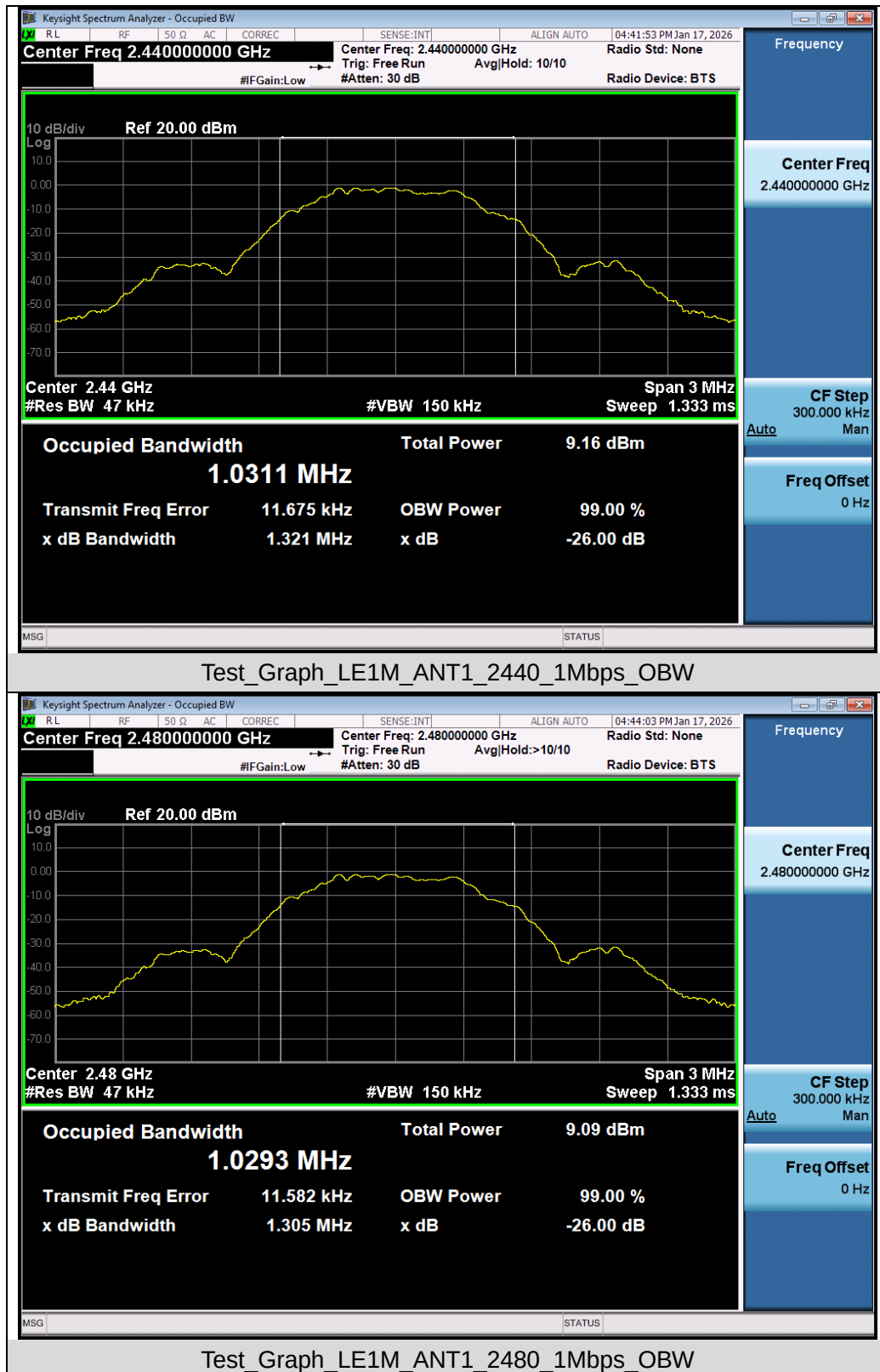
## 8.4 Measurement Results

| Test Data of Occupied Bandwidth and DTS Bandwidth |                      |                          |              |               |              |
|---------------------------------------------------|----------------------|--------------------------|--------------|---------------|--------------|
| Test Mode                                         | Test Frequency (MHz) | Occupied Bandwidth (MHz) | DTS BW (MHz) | DTS BW Limits | Pass or Fail |
| GFSK_1Mbps                                        | 2402                 | 1.032                    | 0.715        | ≥0.5          | Pass         |
|                                                   | 2440                 | 1.031                    | 0.713        | ≥0.5          | Pass         |
|                                                   | 2480                 | 1.029                    | 0.711        | ≥0.5          | Pass         |
| GFSK_2Mbps                                        | 2402                 | 2.058                    | 1.261        | ≥0.5          | Pass         |
|                                                   | 2440                 | 2.057                    | 1.262        | ≥0.5          | Pass         |
|                                                   | 2480                 | 2.055                    | 1.265        | ≥0.5          | Pass         |

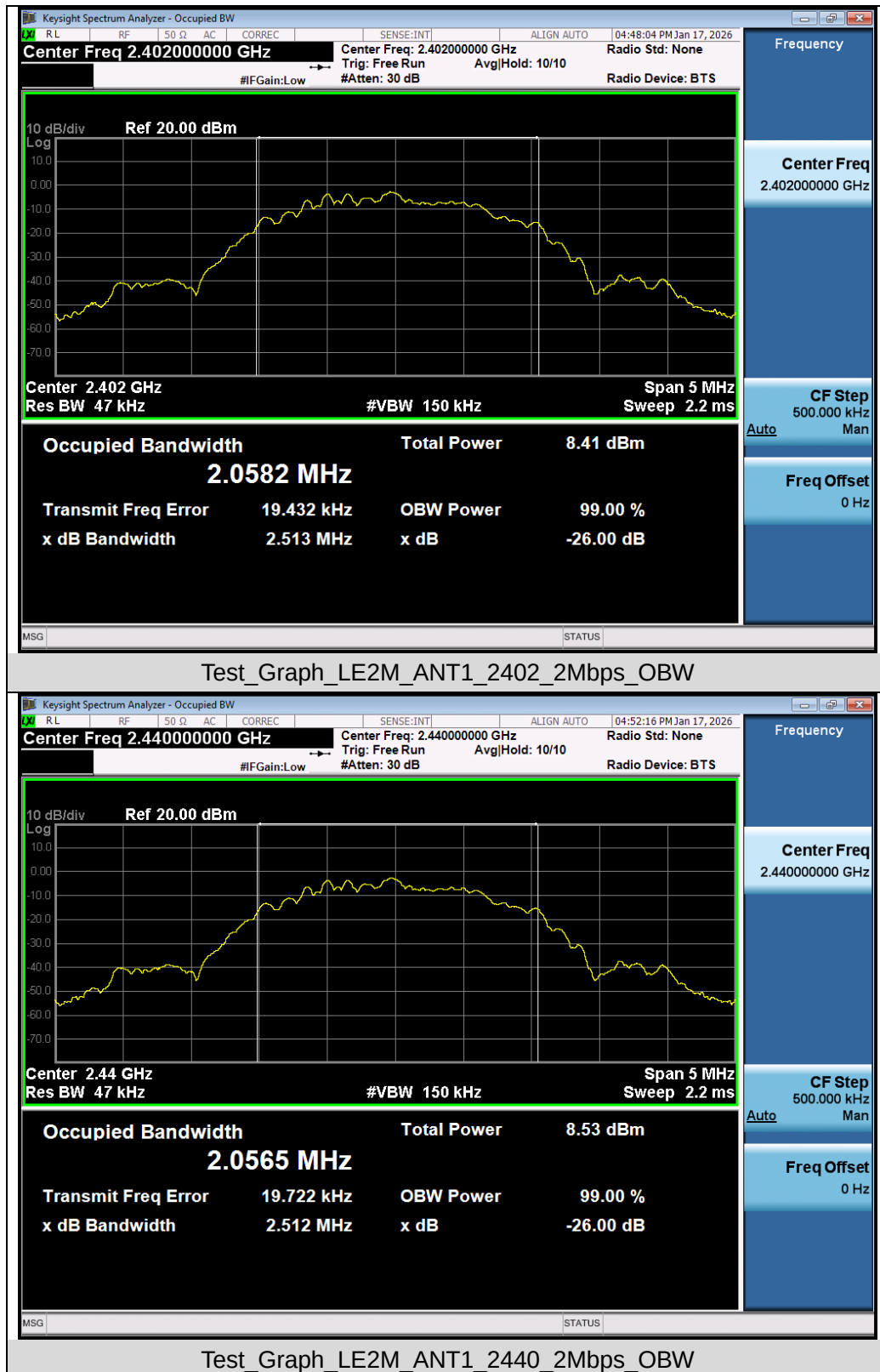
### Test Graphs of Occupied Bandwidth



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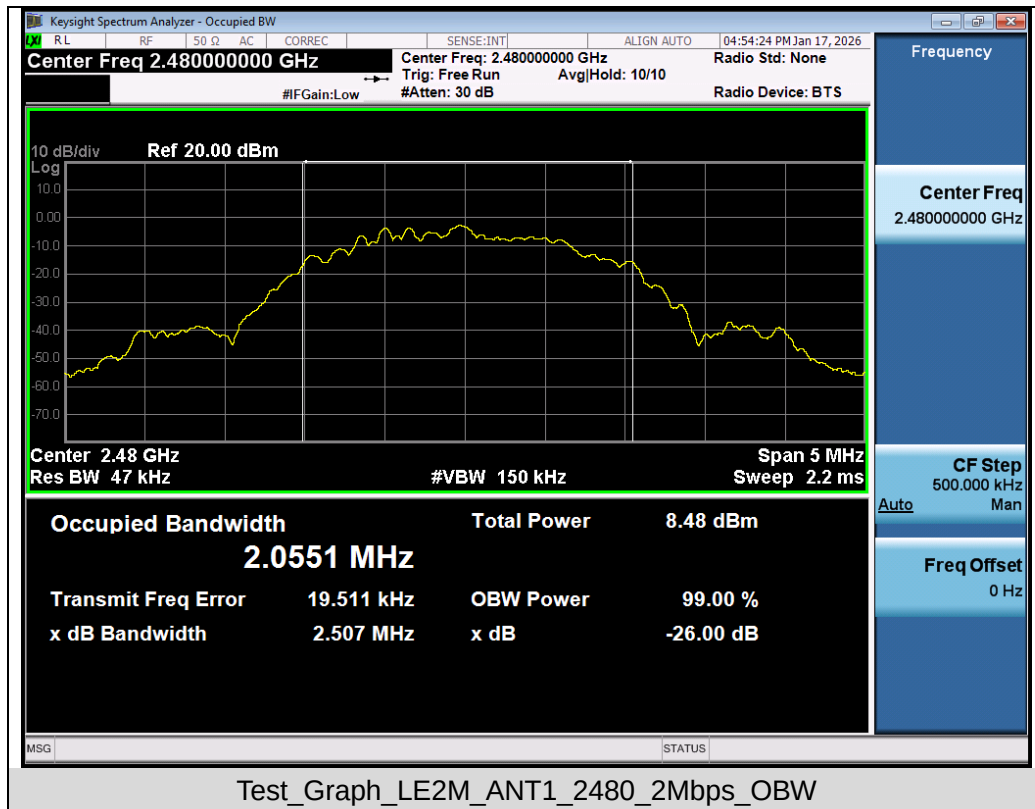


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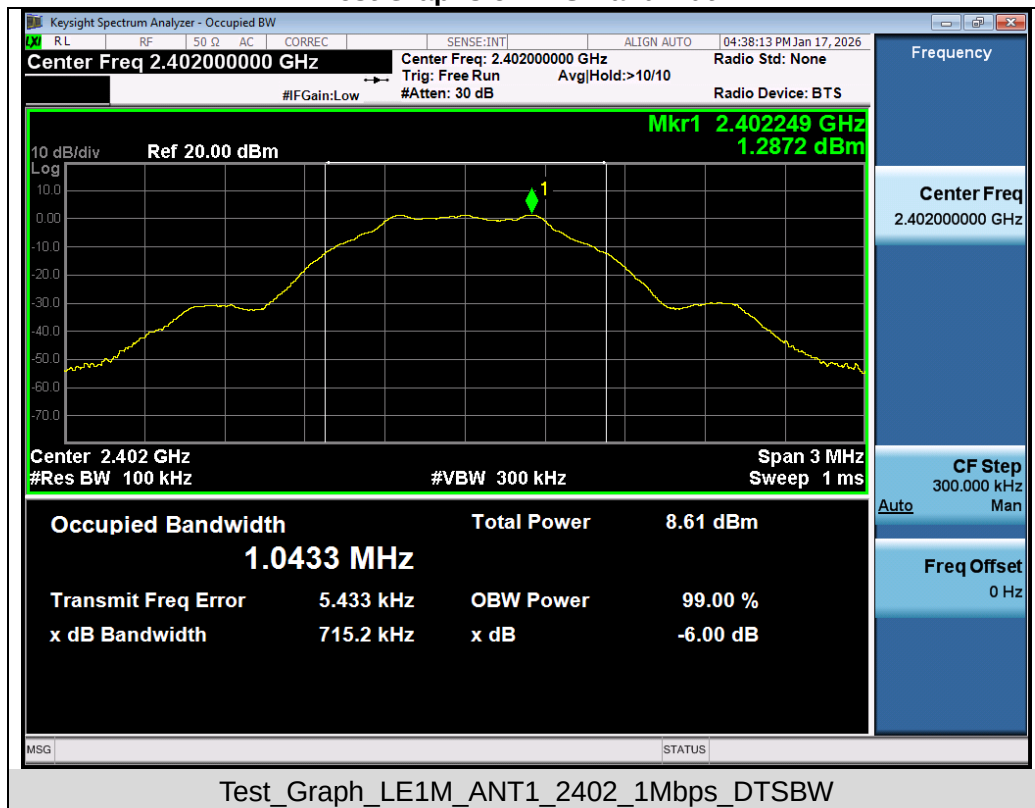


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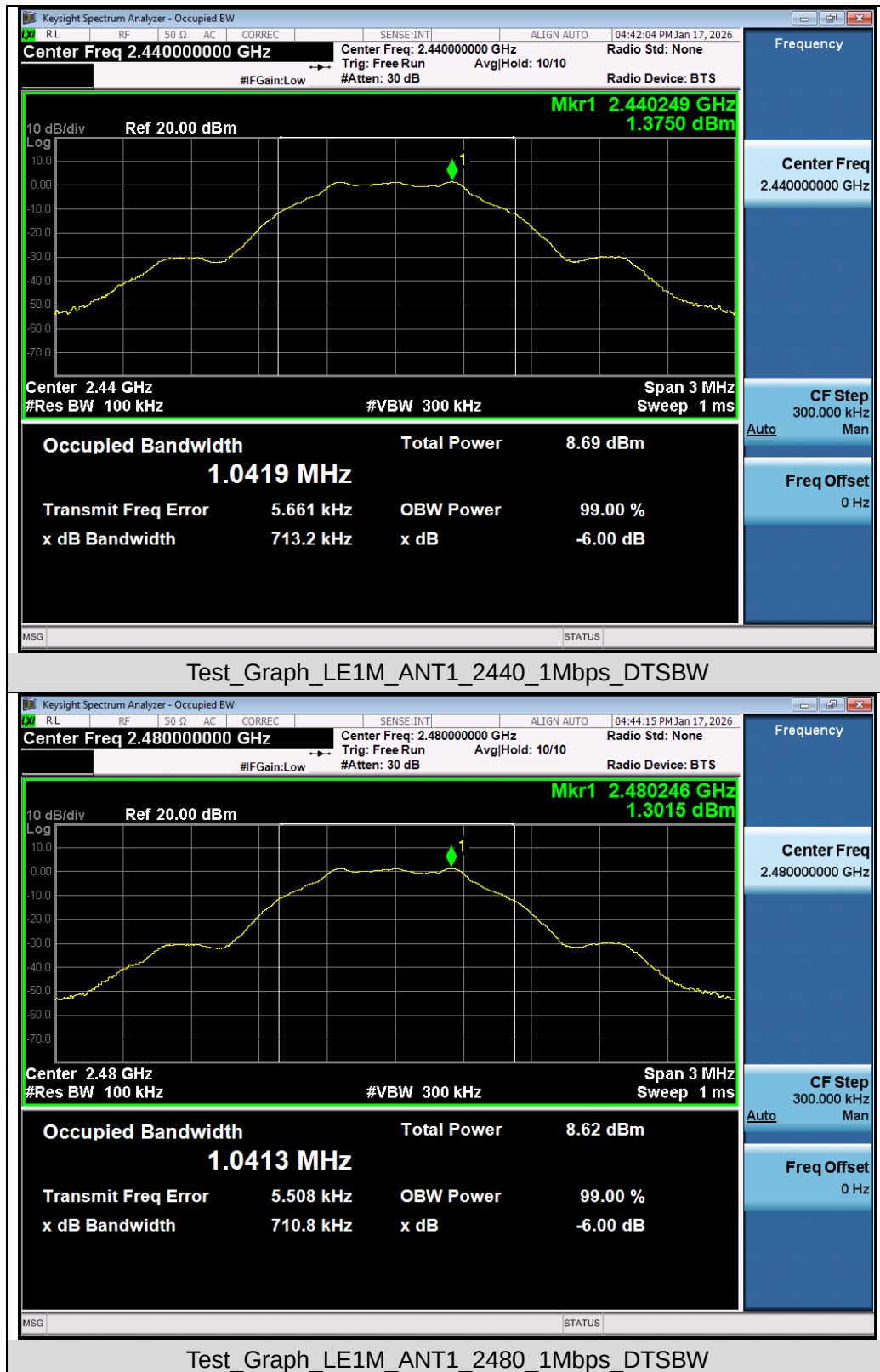
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### Test Graphs of DTS Bandwidth

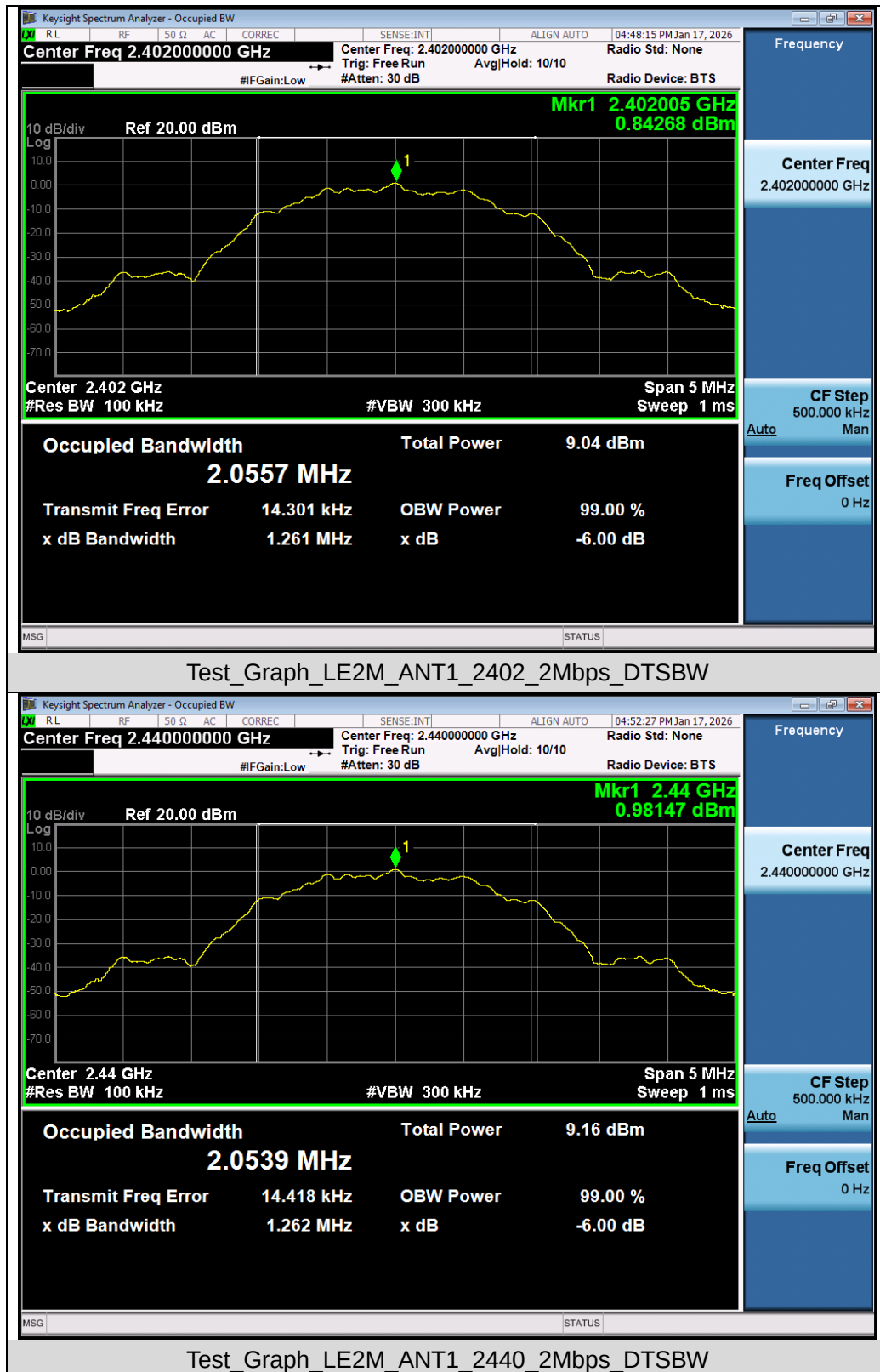


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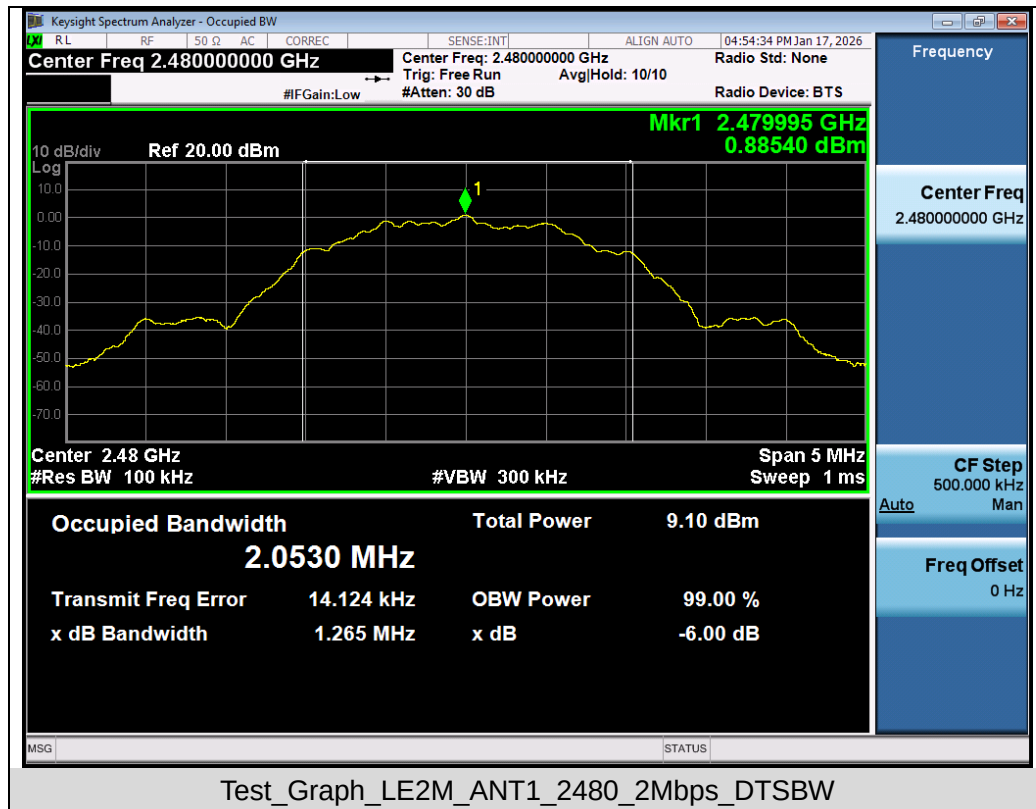


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## 9. Power Spectral Density Measurement

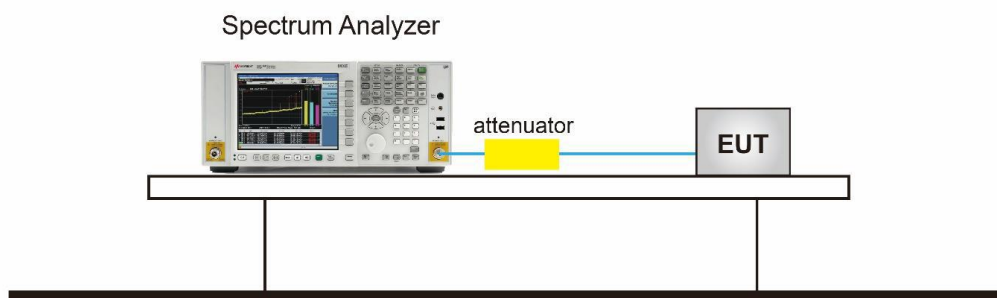
### 9.1 Provisions Applicable

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

### 9.2 Measurement Procedure

- The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
- 1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously.
- 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz in order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
- 4. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
- 5. Measure and record the results in the test report.
- 6. The Measured power density (dBm)/ 100kHz is a reference level and used as 20dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

### 9.3 Measurement Setup (Block Diagram of Configuration)



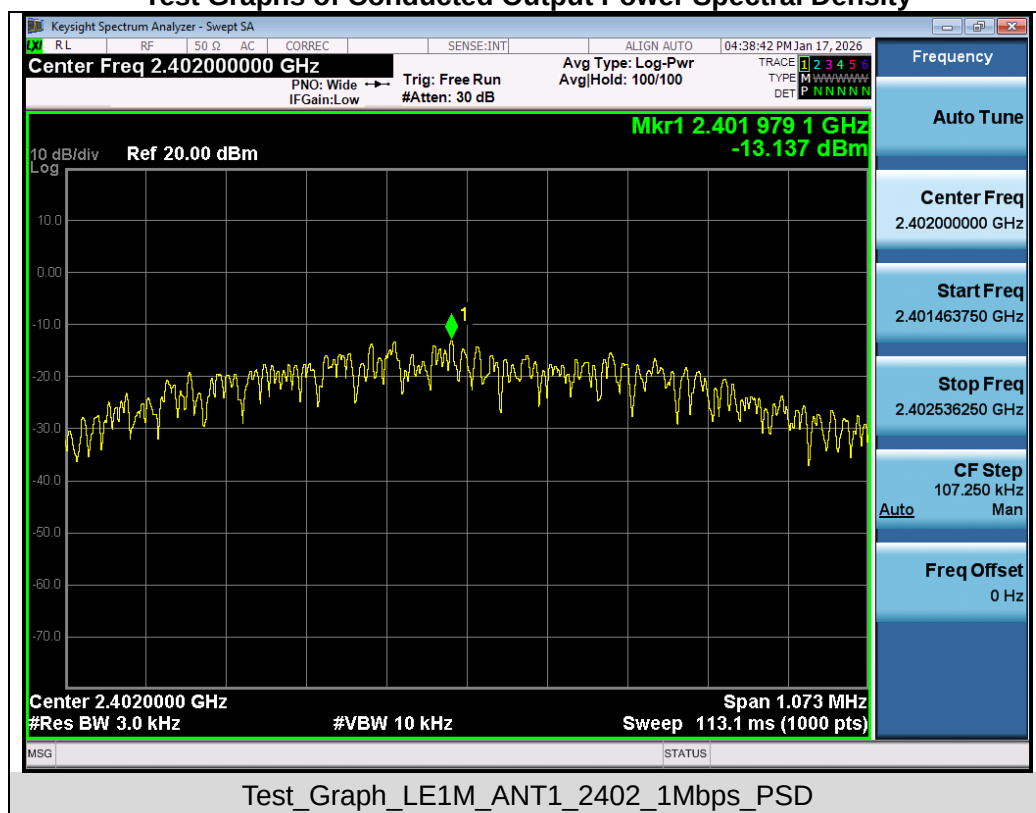
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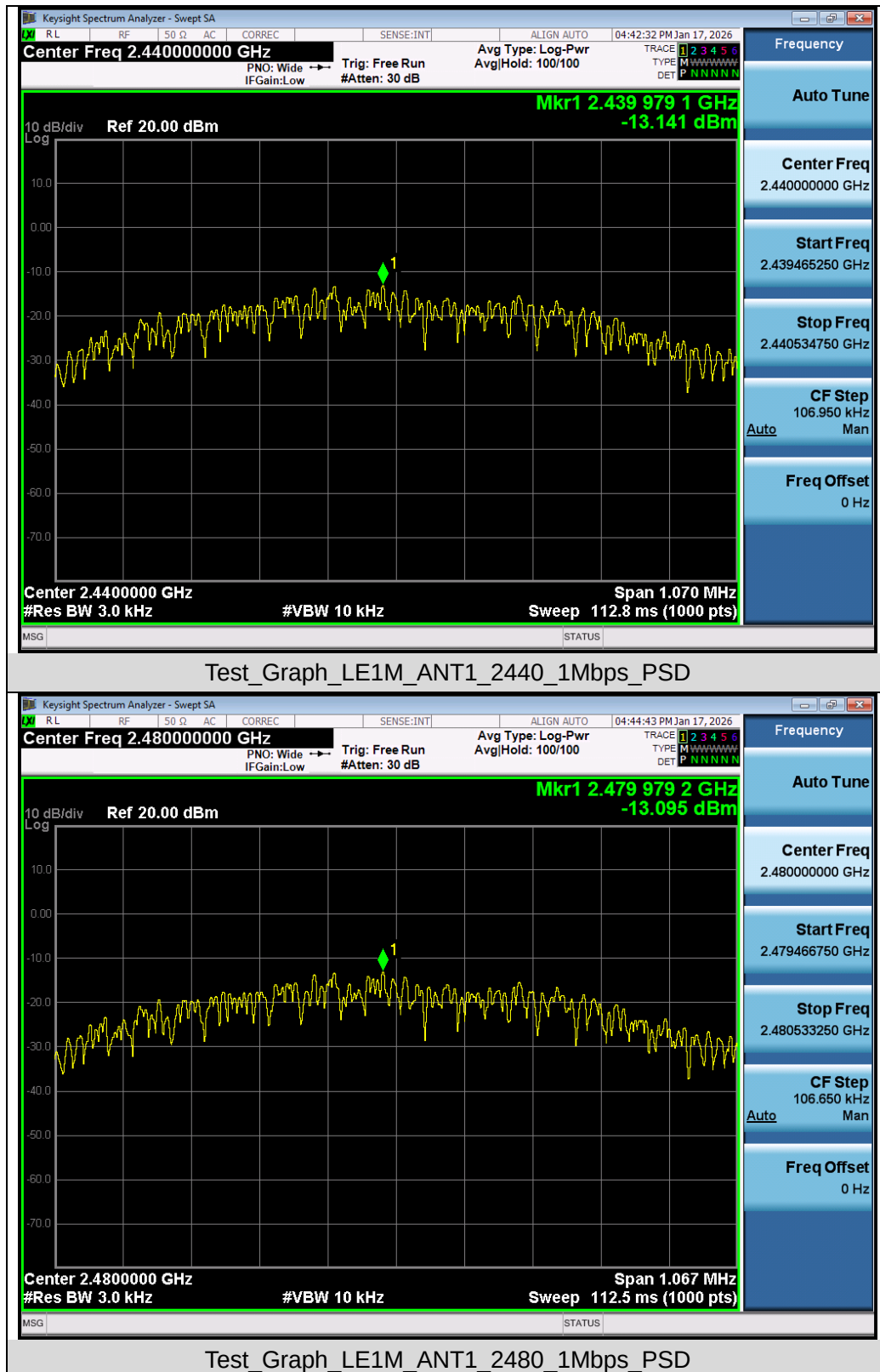
## 9.4 Measurement Results

| Test Data of Conducted Output Power Spectral Density |                      |                          |                  |              |
|------------------------------------------------------|----------------------|--------------------------|------------------|--------------|
| Test Mode                                            | Test Frequency (MHz) | Power density (dBm/3kHz) | Limit (dBm/3kHz) | Pass or Fail |
| GFSK_1Mbps                                           | 2402                 | -13.137                  | ≤8               | Pass         |
|                                                      | 2440                 | -13.141                  | ≤8               | Pass         |
|                                                      | 2480                 | -13.095                  | ≤8               | Pass         |
| GFSK_2Mbps                                           | 2402                 | -15.368                  | ≤8               | Pass         |
|                                                      | 2440                 | -15.268                  | ≤8               | Pass         |
|                                                      | 2480                 | -15.337                  | ≤8               | Pass         |

## Test Graphs of Conducted Output Power Spectral Density

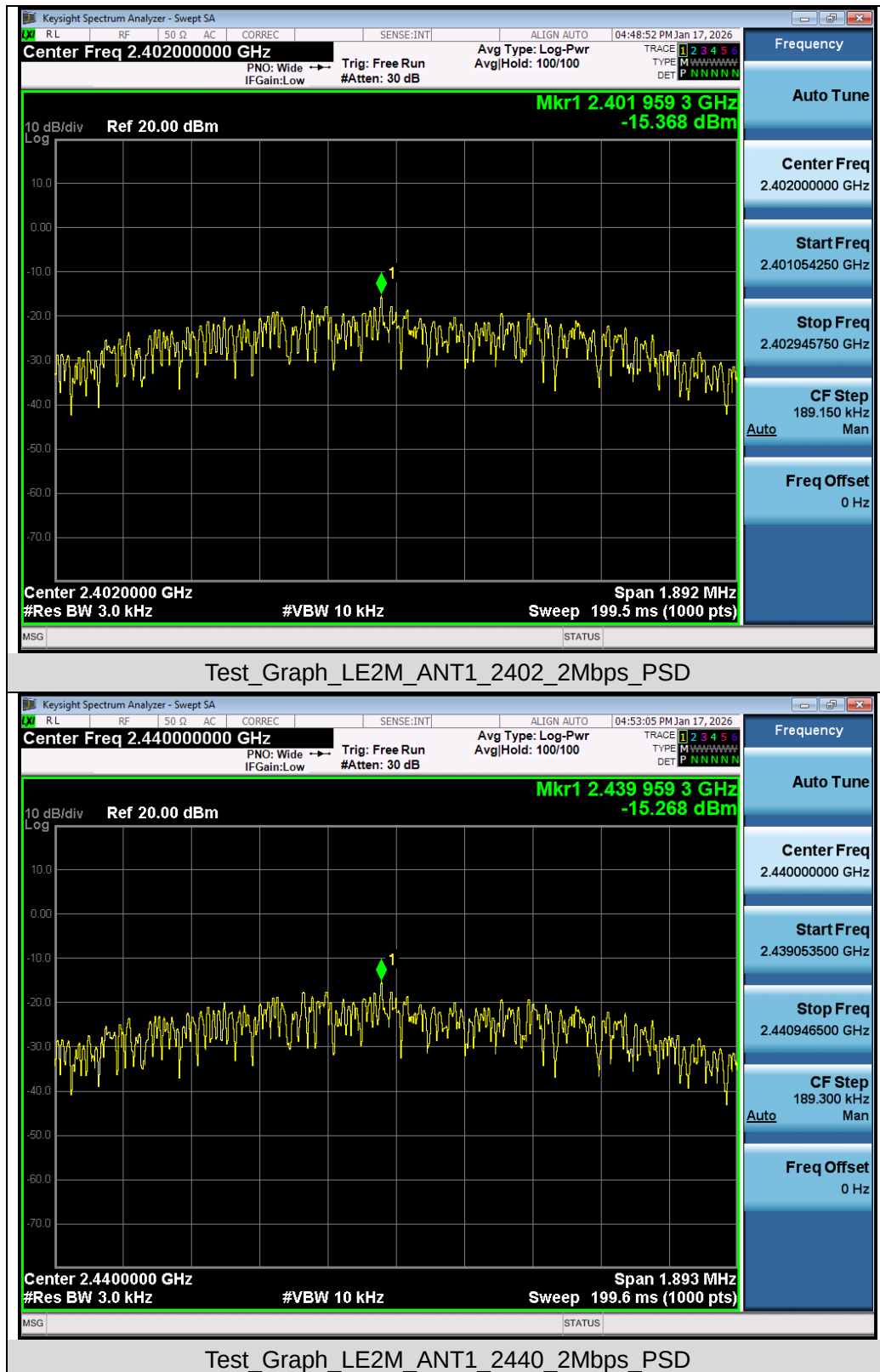


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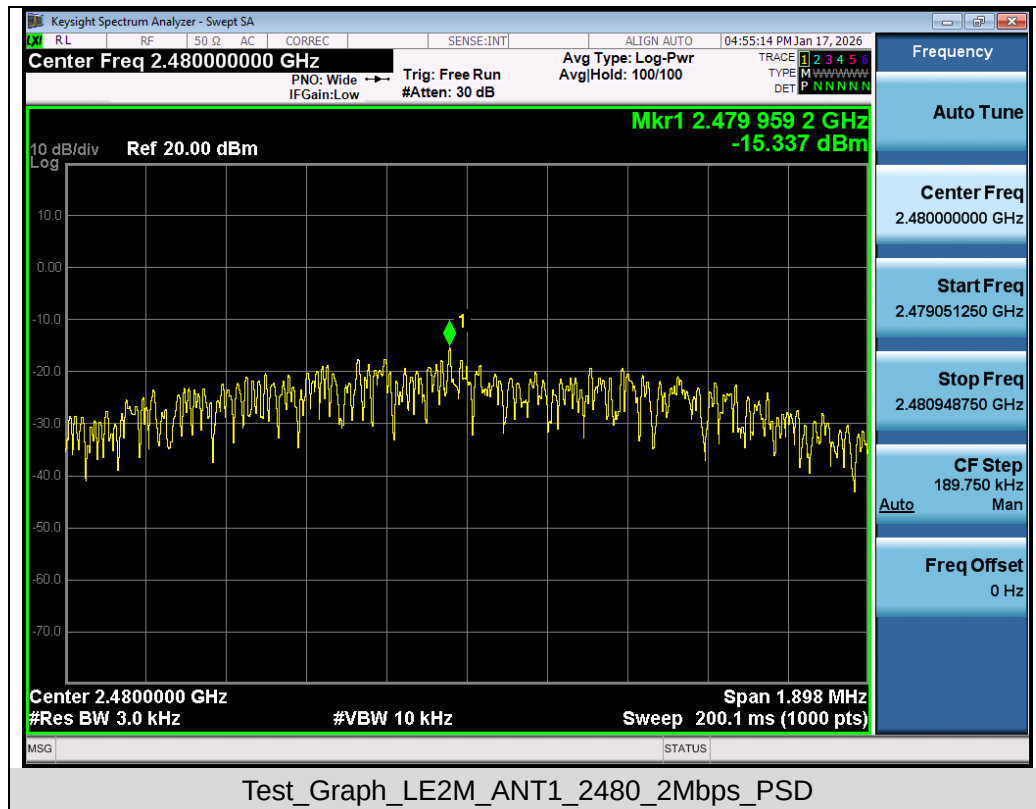


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## 10. Conducted Band Edge and Out-of-Band Emissions

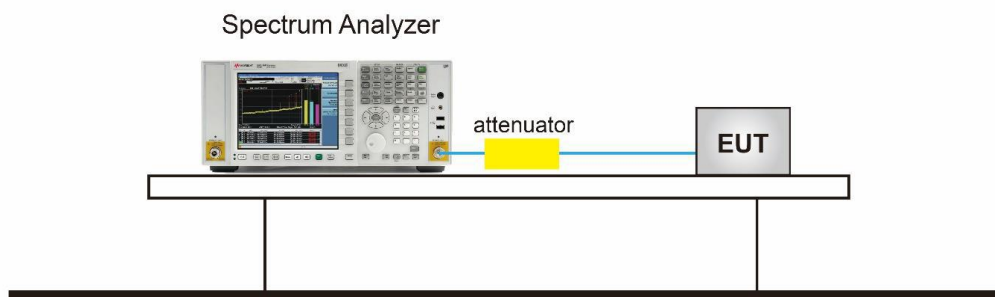
### 10.1 Provisions Applicable

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the PSD procedure.

### 10.2 Measurement Procedure

- Reference level measurement
  1. Set instrument center frequency to DTS channel center frequency
  2. Set the span to  $\geq 1.5$  times the DTS bandwidth
  3. Set the RBW = 100 kHz
  4. Set the VBW  $\geq 3 \times$  RBW
  5. Detector = peak
  6. Sweep time = auto couple
  7. Trace mode = max hold
  8. Allow trace to fully stabilize
  9. Input compensation coefficient (dB) = Cable Loss (dB) + Attenuator attenuation value (dB)
- Emission level measurement
  1. Set the center frequency and span to encompass frequency range to be measured
  2. RBW = 100kHz
  3. VBW = 300kHz
  4. Detector = Peak
  5. Trace mode = max hold
  6. Sweep time = auto couple
  7. The trace was allowed to stabilize
  8. Input compensation coefficient (dB) = Cable Loss (dB) + Attenuator attenuation value (dB)

### 10.3 Measurement Setup (Block Diagram of Configuration)



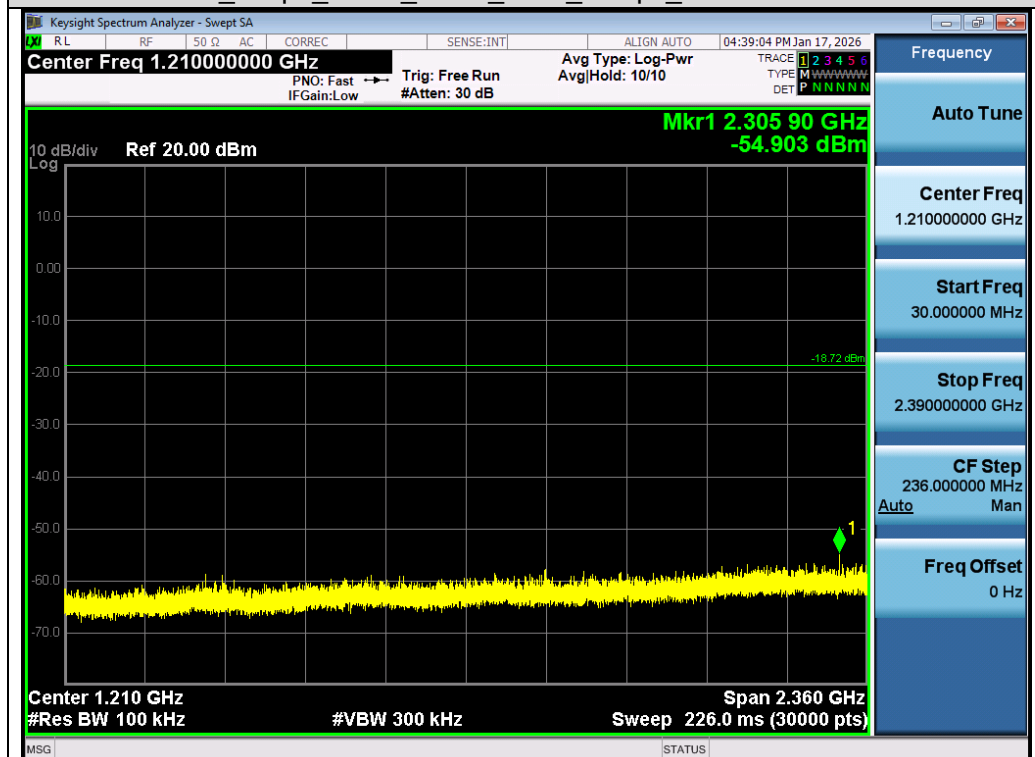
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## 10.4 Measurement Results

### Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands

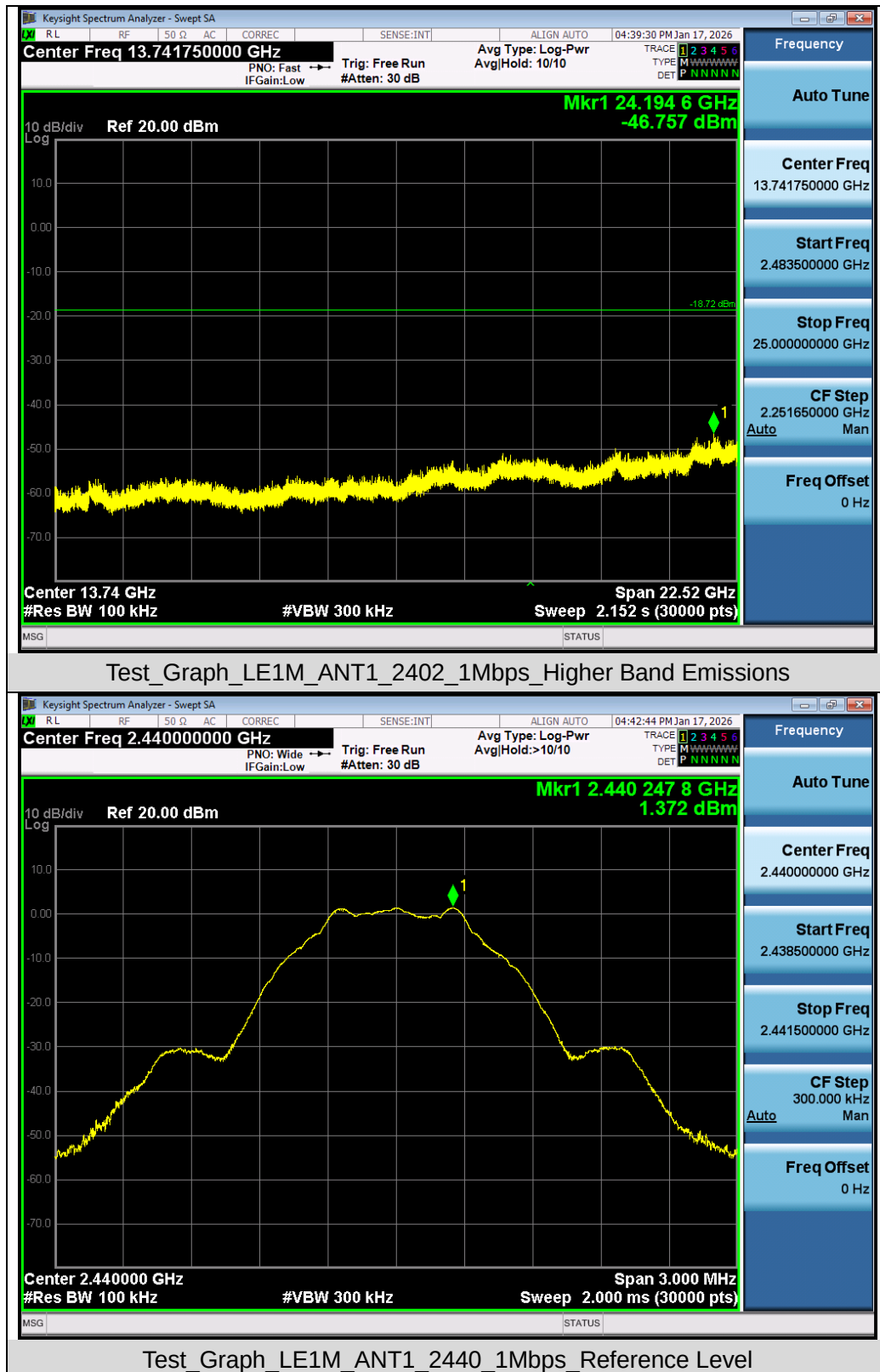


Test\_Graph\_LE1M\_ANT1\_2402\_1Mbps\_Reference Level

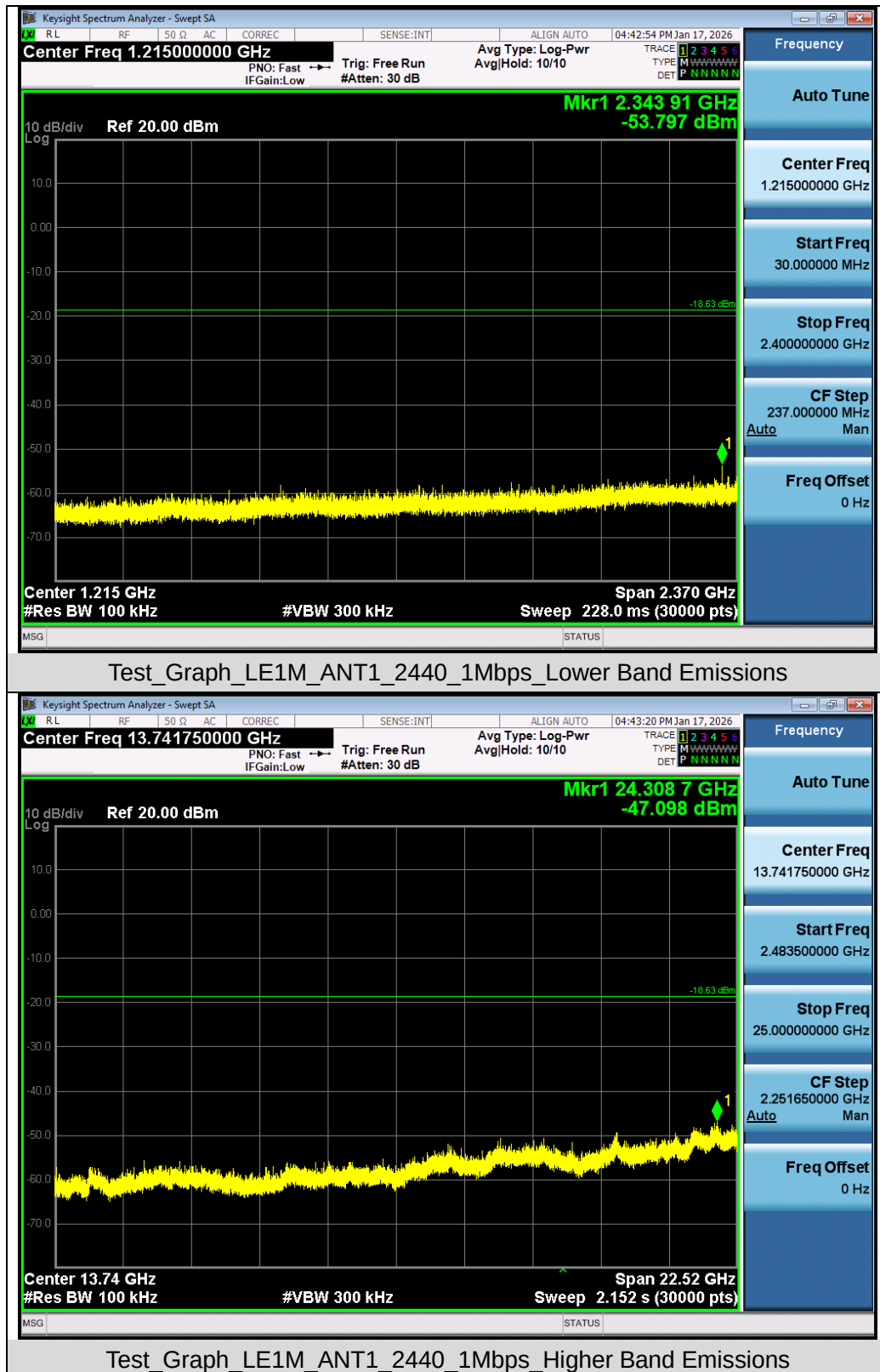


Test\_Graph\_LE1M\_ANT1\_2402\_1Mbps\_Lower Band Emissions

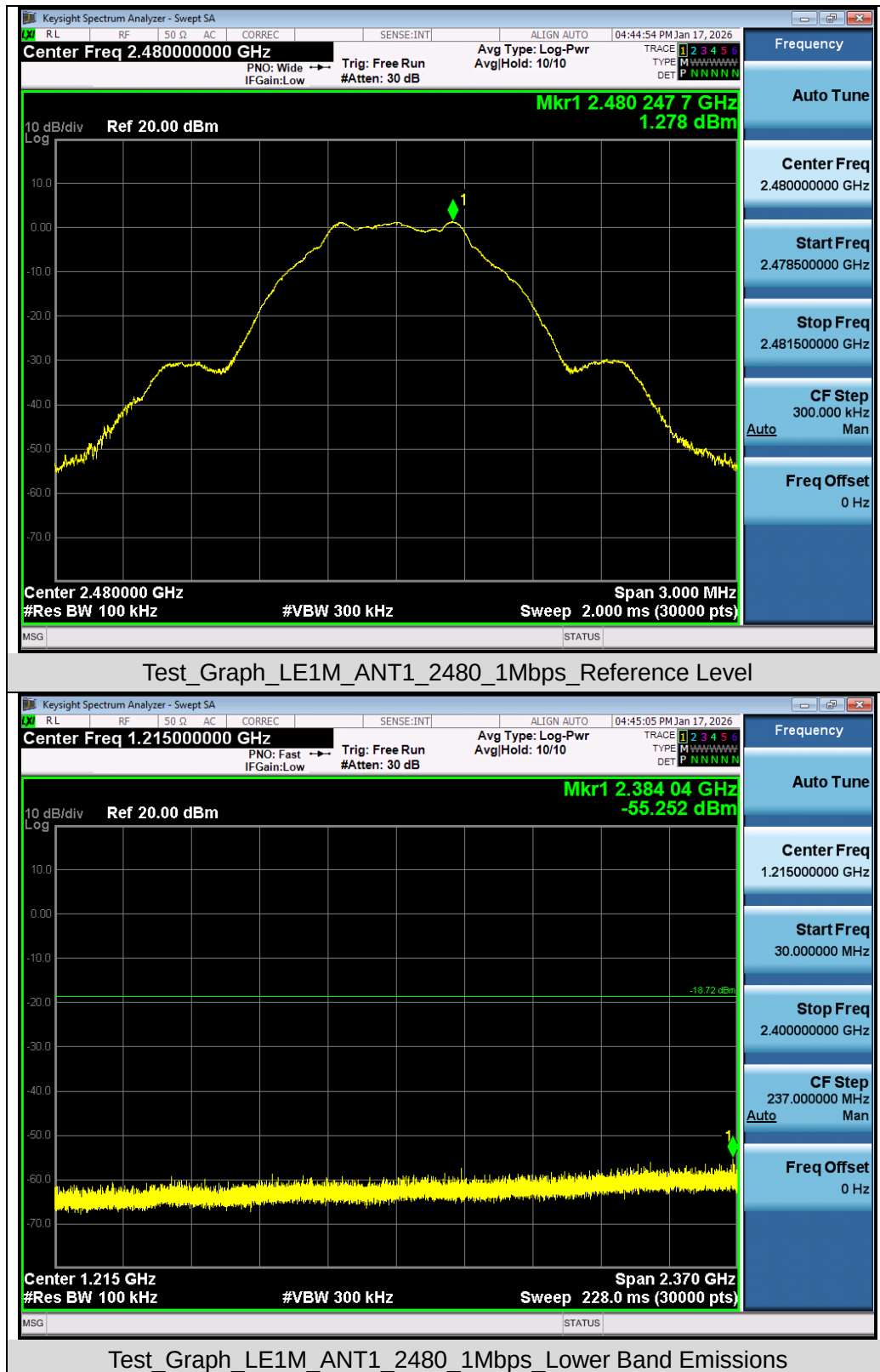
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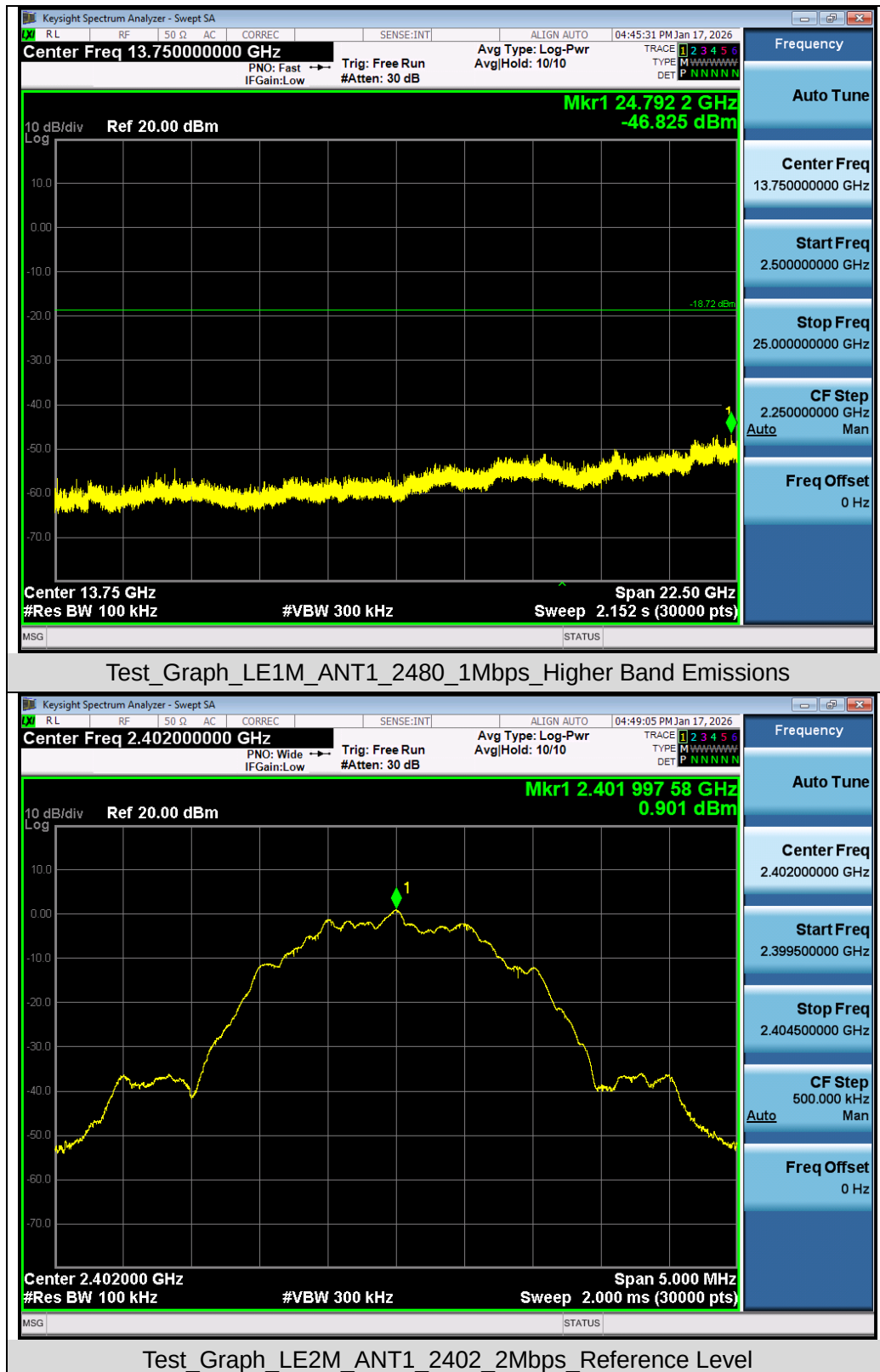
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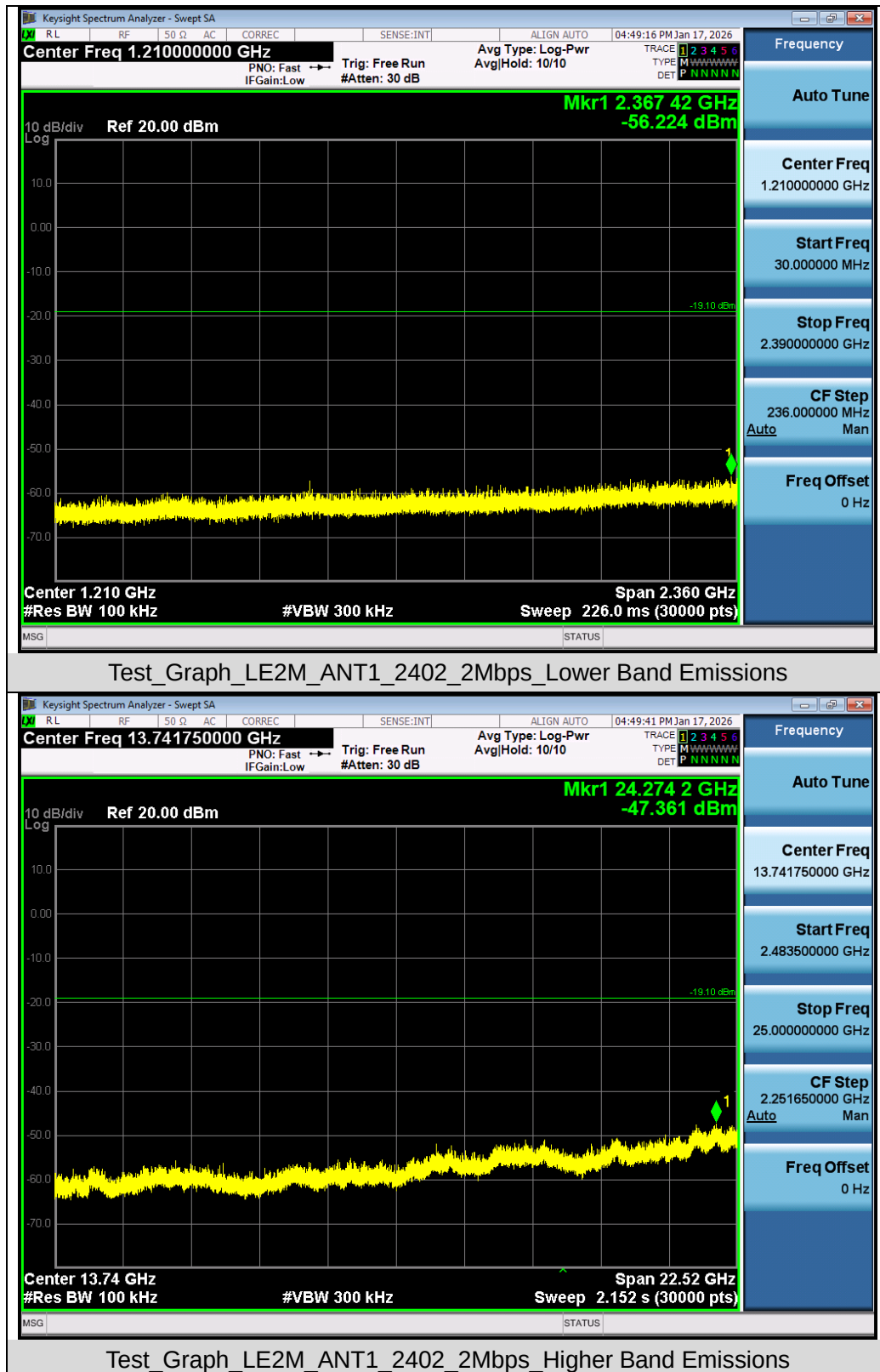


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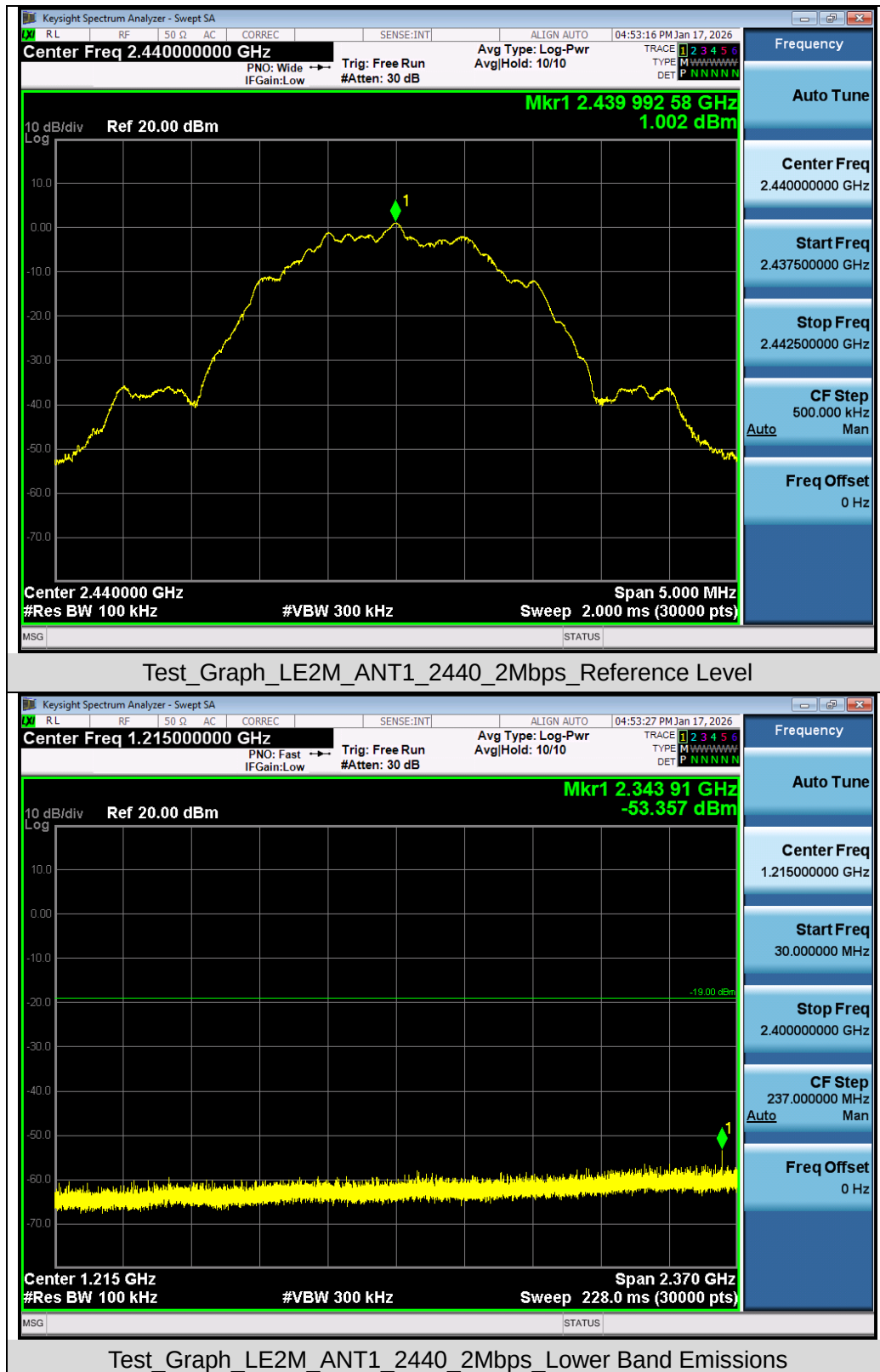
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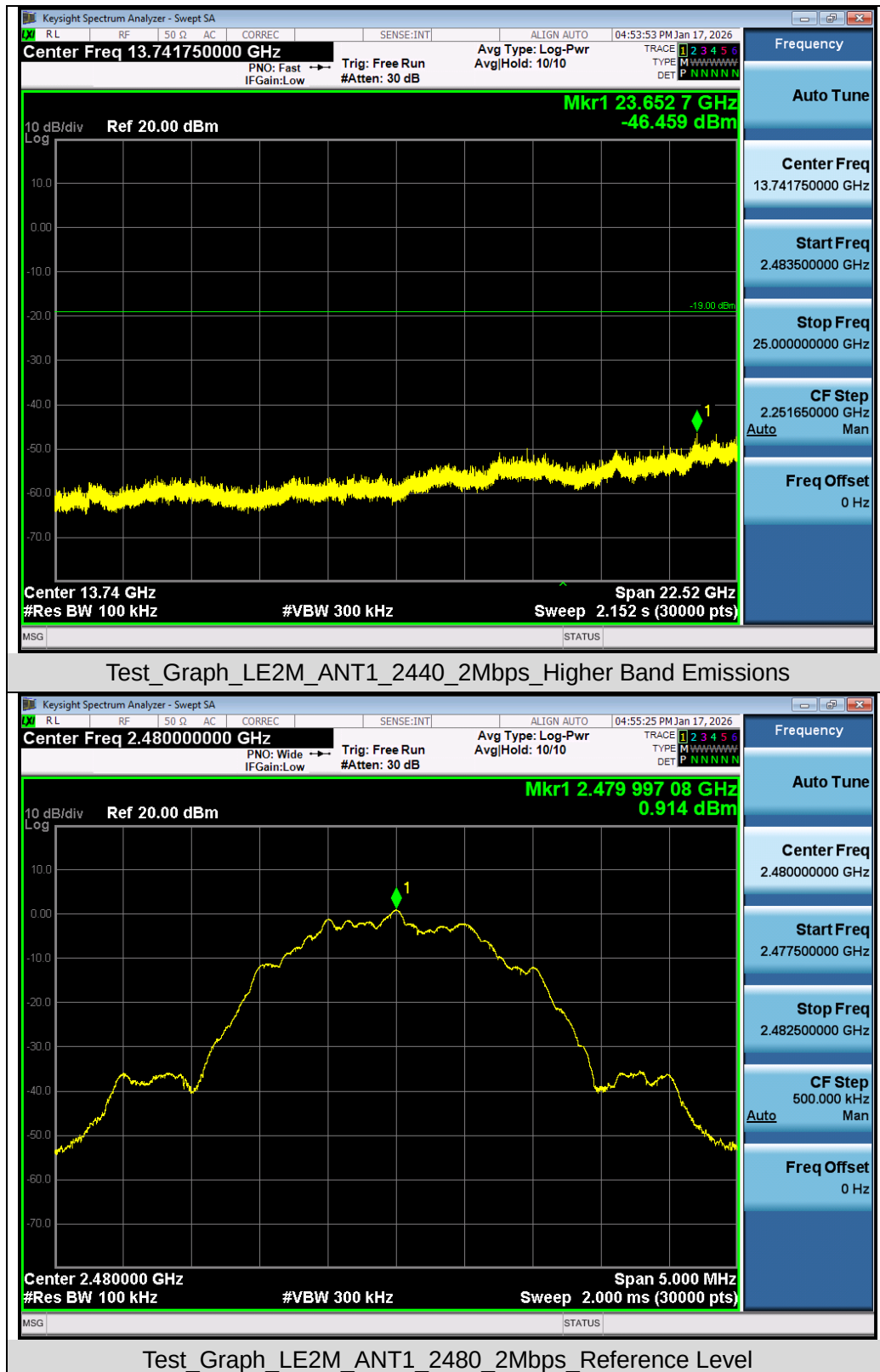
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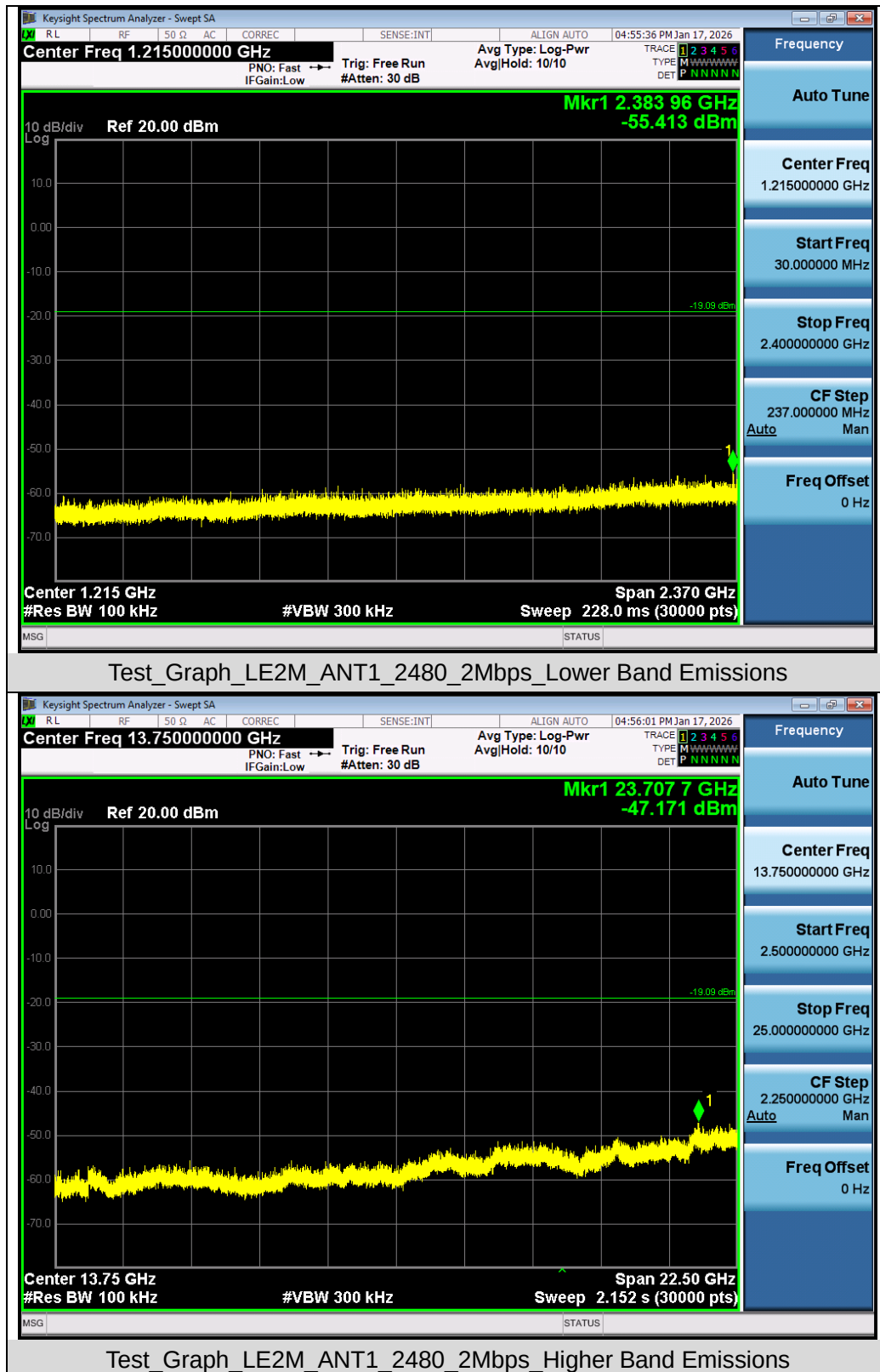


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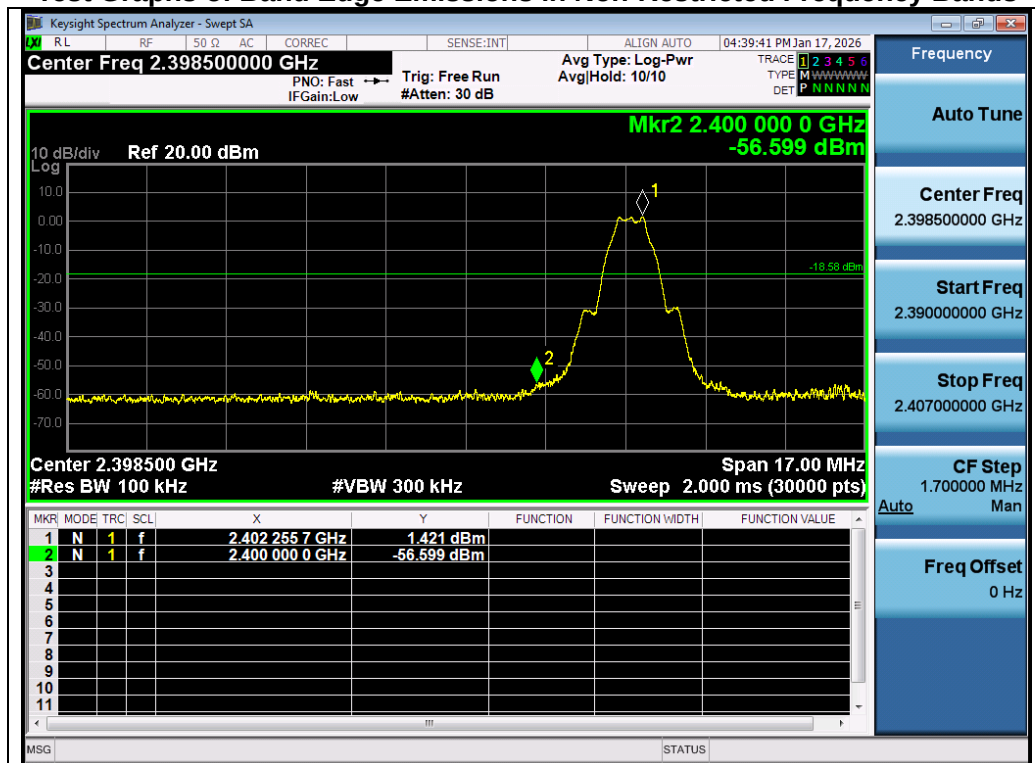


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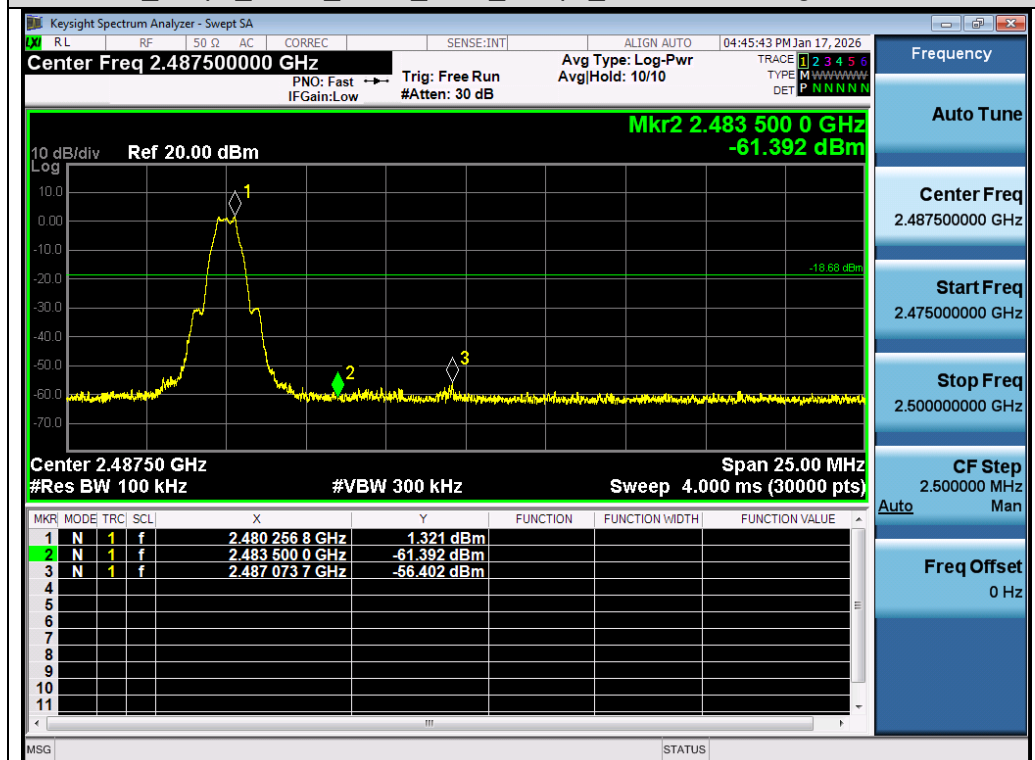


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### Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands

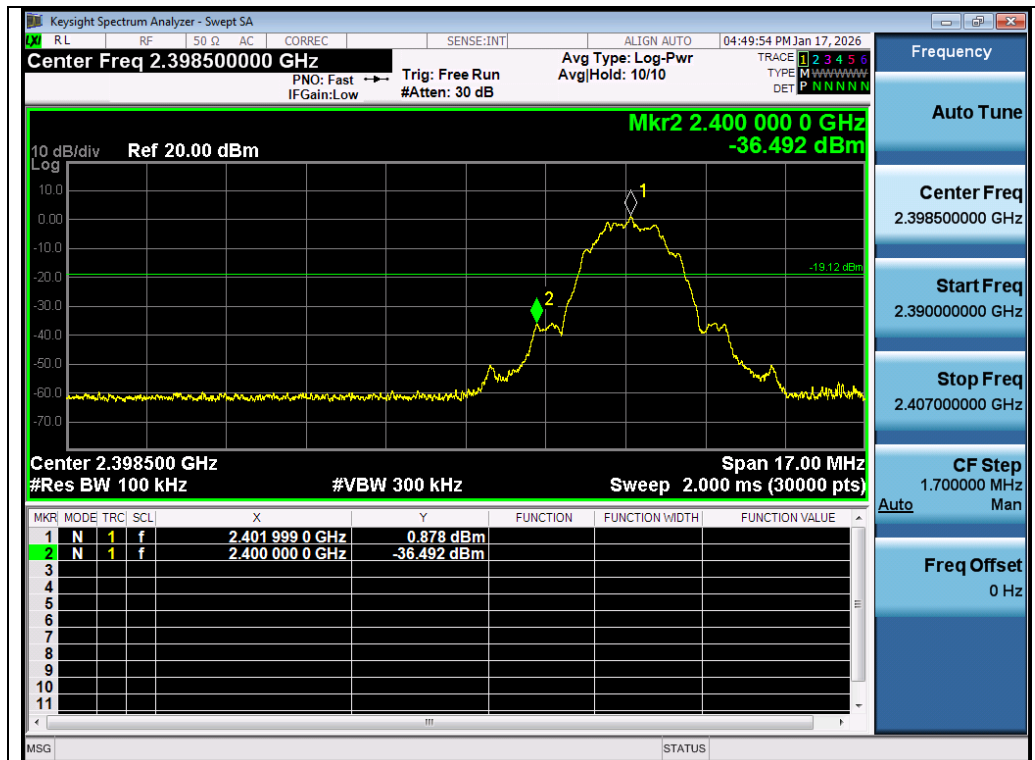


Test\_Graph\_LE1M\_ANT1\_2402\_1Mbps\_Lower Band Edge Emissions

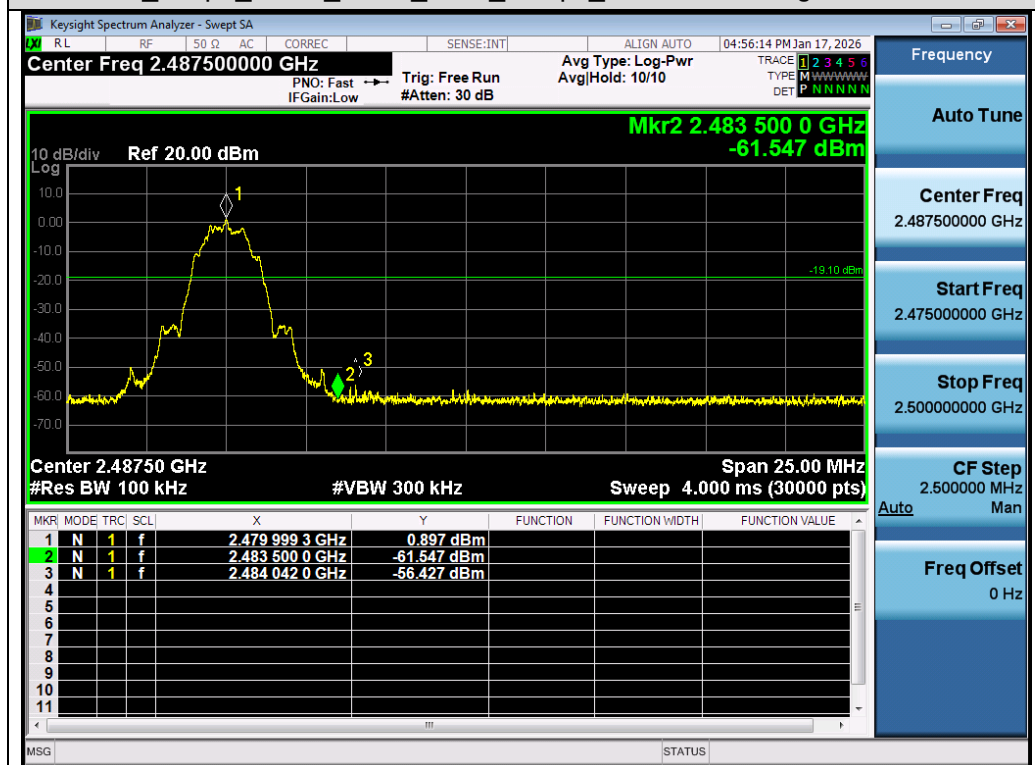


Test\_Graph\_LE1M\_ANT1\_2480\_1Mbps\_Higher Band Edge Emissions

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Test\_Graph\_LE2M\_ANT1\_2402\_2Mbps\_Lower Band Edge Emissions



Test\_Graph\_LE2M\_ANT1\_2480\_2Mbps\_Higher Band Edge Emissions

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## 11. Radiated Spurious Emission

### 11.1 Measurement Limit

- FCC Part 15.209 Limit in the below table to be followed

| Frequencies<br>(MHz) | Field Strength<br>(microvolts/meter) | Measurement Distance<br>(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                                |

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

### 11.2 Measurement Procedure

- The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- For emissions above 1GHz, insert the 2.4G filter between the receiving antenna and the Pre-amplifier(only for Radiated Spurious Emission). Use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

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7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds.
8. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
9. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
10. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
11. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

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

| Spectrum Parameter    | Setting                                                   |
|-----------------------|-----------------------------------------------------------|
| Start ~Stop Frequency | 9kHz~150kHz/RB 200Hz for QP                               |
| Start ~Stop Frequency | 150kHz~30MHz/RB 9kHz for QP                               |
| Start ~Stop Frequency | 30MHz~1000MHz/RB 120kHz for QP                            |
| Start ~Stop Frequency | 1GHz~26.5GHz<br>1MHz/3MHz for Peak, 1MHz/3MHz for Average |

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

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- **Quasi-Peak Measurements below 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as shown in the table above
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

- **Peak Measurements above 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

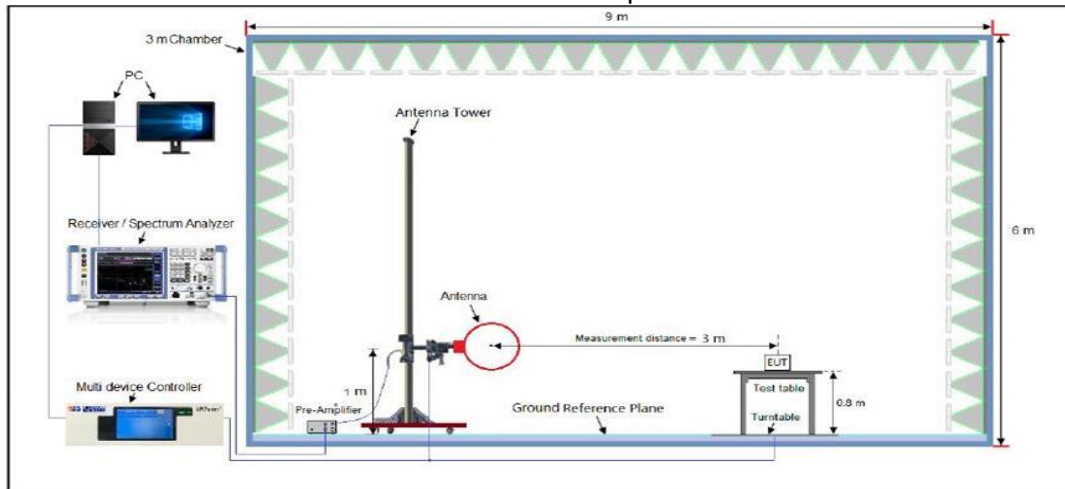
- **Average Measurements above 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW  $\geq [3 \times \text{RBW}]$
4. Detector = Power averaging (rms)
5. Averaging type = power (i.e., rms)
6. Sweep time = auto
7. Perform a trace average of at least 100 traces.
8. The applicable correction factor is  $[10 \cdot \log(1 / D)]$ , where D is the duty cycle. The factor had been edited in the "Input Correction" of the Spectrum Analyzer.

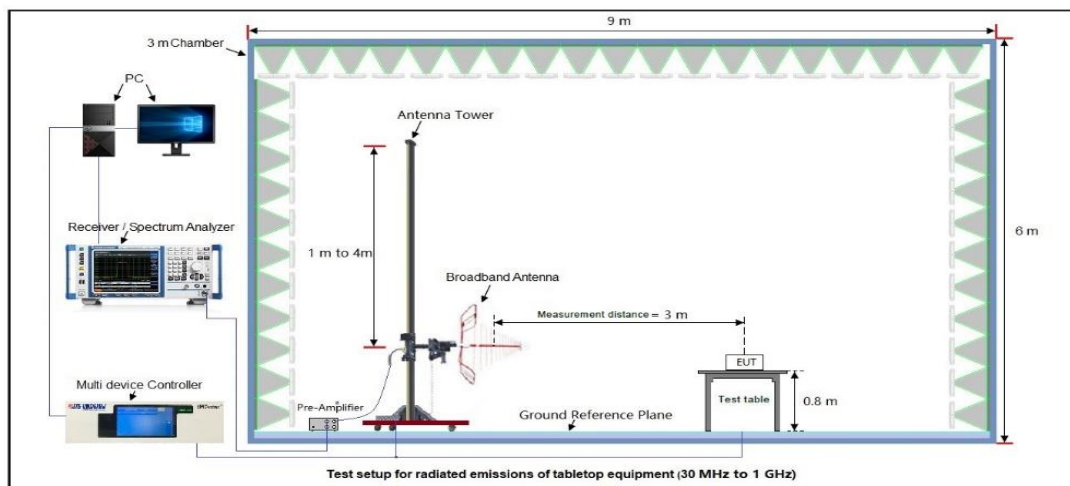
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### 11.3 Measurement Setup (Block Diagram of Configuration)

Radiated Emission Test Setup 9kHz-30MHz

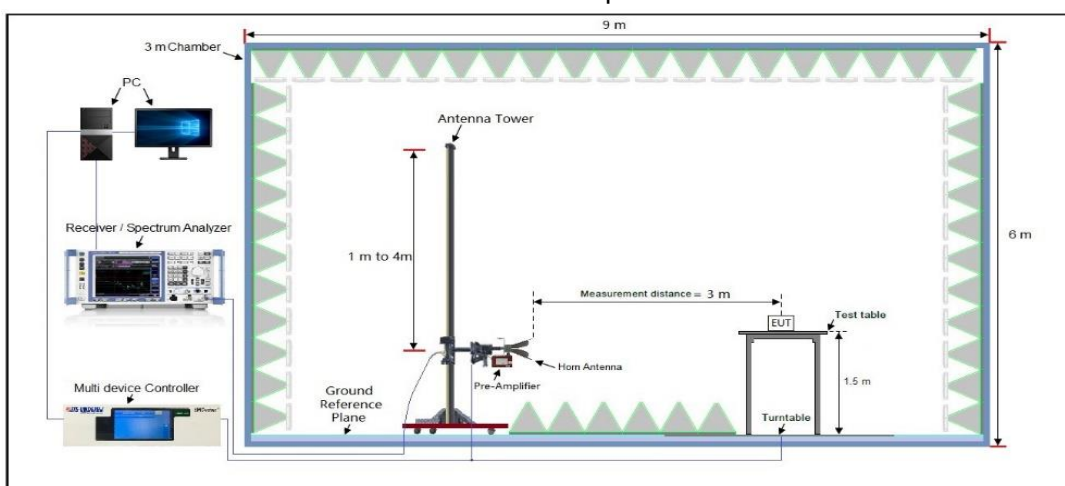


Radiated Emission Test Setup 30MHz-1000MHz



Test setup for radiated emissions of tabletop equipment (30 MHz to 1 GHz)

Radiated Emission Test Setup Above 1000MHz

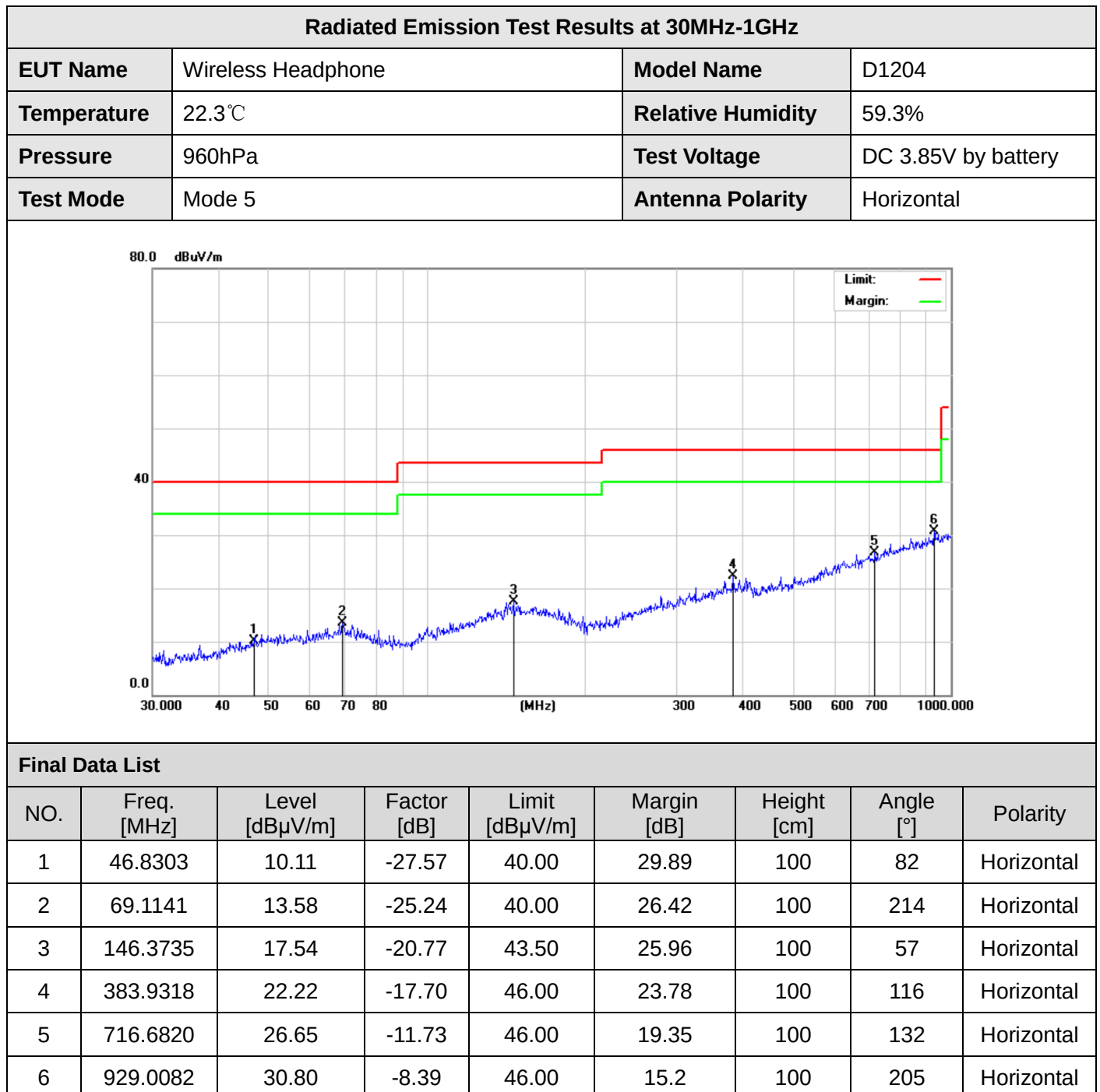


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## 11.4 Measurement Result

### Radiated Emission Below 30MHz

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

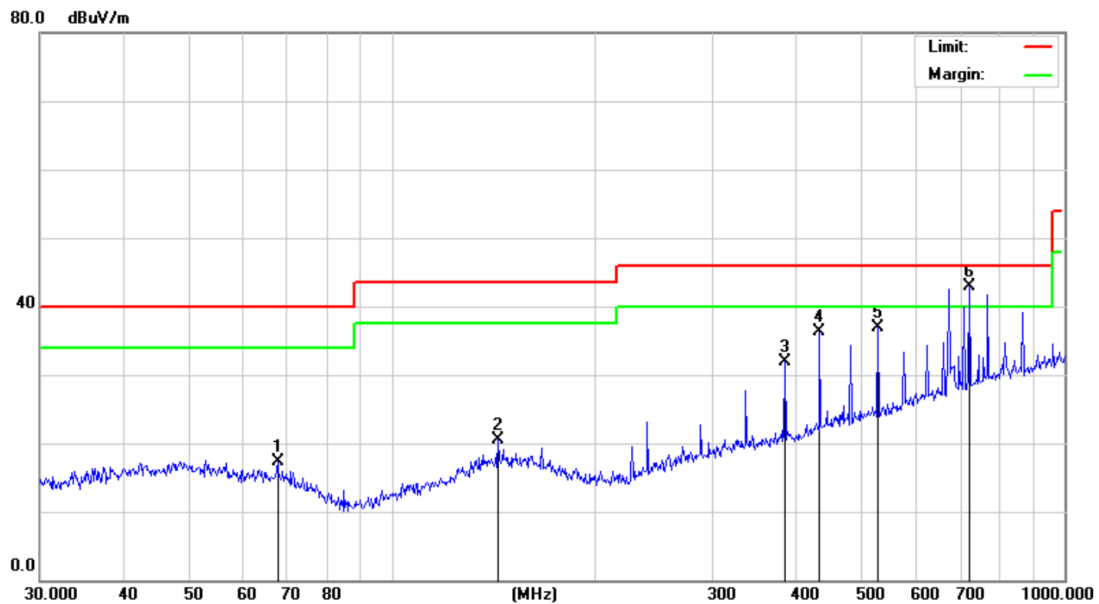


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### Radiated Emission Test Results at 30MHz-1GHz

|                    |                    |                          |                     |
|--------------------|--------------------|--------------------------|---------------------|
| <b>EUT Name</b>    | Wireless Headphone | <b>Model Name</b>        | D1204               |
| <b>Temperature</b> | 22.3℃              | <b>Relative Humidity</b> | 59.3%               |
| <b>Pressure</b>    | 960hPa             | <b>Test Voltage</b>      | DC 3.85V by battery |
| <b>Test Mode</b>   | Mode 5             | <b>Antenna Polarity</b>  | Vertical            |



### Final Data List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1   | 67.6751     | 17.29          | -22.39      | 40.00          | 22.71       | 100         | 75        | Vertical |
| 2   | 143.8295    | 20.45          | -19.92      | 43.50          | 23.05       | 100         | 129       | Vertical |
| 3   | 383.9318    | 31.88          | -17.03      | 46.00          | 14.12       | 100         | 114       | Vertical |
| 4   | 432.5457    | 36.33          | -15.66      | 46.00          | 9.67        | 100         | 203       | Vertical |
| 5   | 528.2458    | 36.88          | -13.71      | 46.00          | 9.12        | 100         | 86        | Vertical |
| 6   | 721.7259    | 42.92          | -9.19       | 46.00          | 3.08        | 100         | 124       | Vertical |

### RESULT: Pass

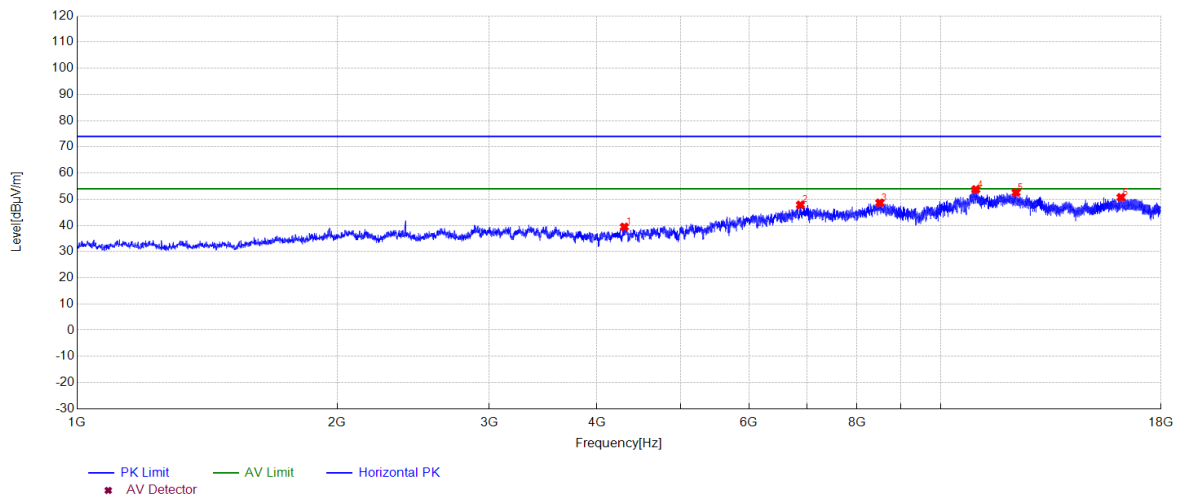
#### Note:

- Factor=Antenna Factor + Cable loss - Pre-amplifier, Margin=Limit-Level.
- All test modes had been pre-tested. The mode 5 is the worst case and recorded in the report.

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### Radiated Emissions Test Results for Above 1GHz

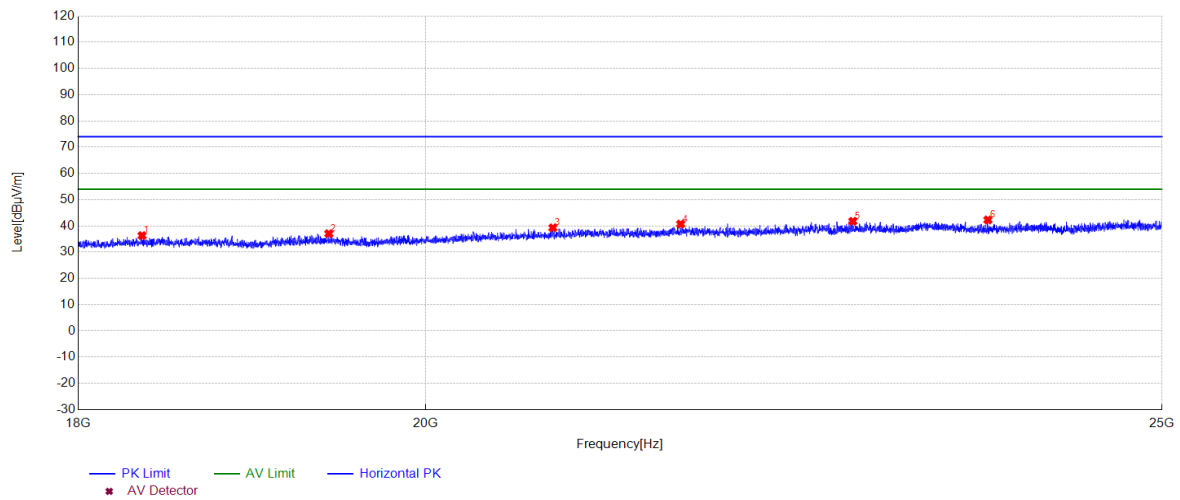
|             |                    |                   |                     |
|-------------|--------------------|-------------------|---------------------|
| EUT Name    | Wireless Headphone | Model Name        | D1204               |
| Temperature | 21.5℃              | Relative Humidity | 53.1%               |
| Pressure    | 960hPa             | Test Voltage      | DC 3.85V by battery |
| Test Mode   | Mode 4             | Antenna Polarity  | Horizontal          |



| PK Data List |              |                |             |                |             |             |           |            |
|--------------|--------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO.          | Freq. [MHz]  | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1            | 4302.415121  | 39.41          | -9.73       | 74.00          | 34.59       | 150         | 177       | Horizontal |
| 2            | 6879.743987  | 47.84          | -2.92       | 74.00          | 26.16       | 150         | 360       | Horizontal |
| 3            | 8503.325166  | 48.61          | -1.50       | 74.00          | 25.39       | 150         | 359       | Horizontal |
| 4            | 10984.59923  | 53.73          | 4.51        | 74.00          | 20.27       | 150         | 309       | Horizontal |
| 5            | 12227.361368 | 52.55          | 2.99        | 74.00          | 21.45       | 150         | 59        | Horizontal |
| 6            | 16177.508875 | 50.71          | 3.93        | 74.00          | 23.29       | 150         | 191       | Horizontal |

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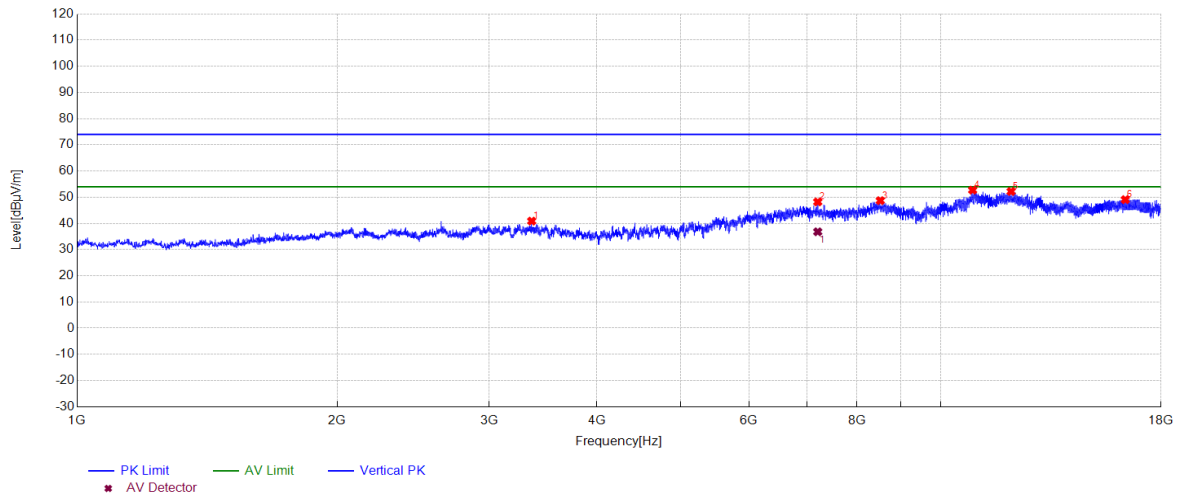
#### PK Data List

| NO. | Freq.<br>[MHz] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|
| 1   | 18352.050293   | 36.30             | -7.37          | 74.00             | 37.70          | 150            | 180          | Horizontal |
| 2   | 19421.203029   | 37.03             | -7.02          | 74.00             | 36.97          | 150            | 210          | Horizontal |
| 3   | 20785.397914   | 39.27             | -5.84          | 74.00             | 34.73          | 150            | 240          | Horizontal |
| 4   | 21606.515217   | 40.70             | -4.89          | 74.00             | 33.30          | 150            | 10           | Horizontal |
| 5   | 22763.680526   | 41.76             | -3.50          | 74.00             | 32.24          | 150            | 140          | Horizontal |
| 6   | 23714.816402   | 42.28             | -3.18          | 74.00             | 31.72          | 150            | 210          | Horizontal |

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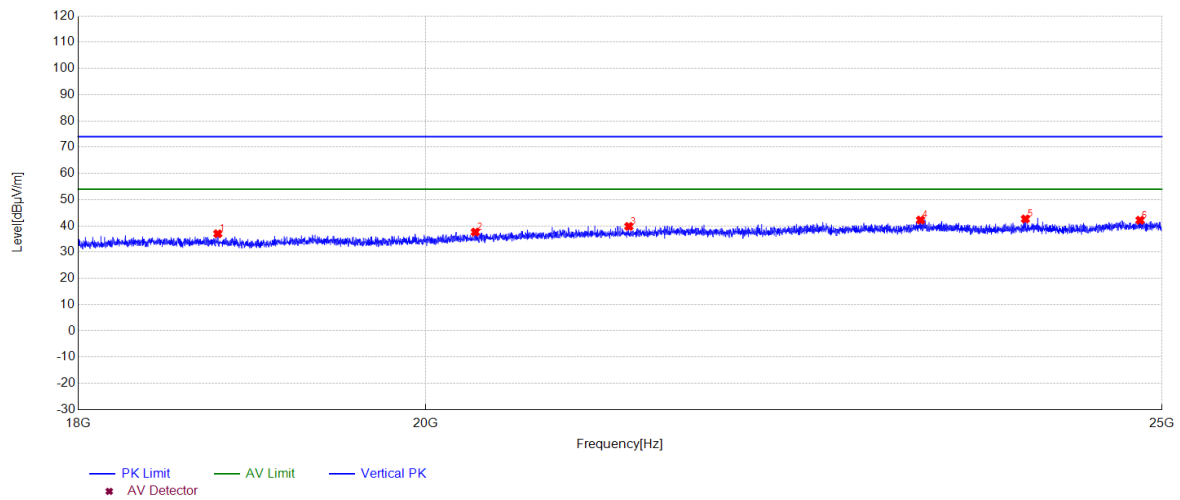
|             |                    |                   |                     |
|-------------|--------------------|-------------------|---------------------|
| EUT Name    | Wireless Headphone | Model Name        | D1204               |
| Temperature | 21.5°C             | Relative Humidity | 53.1%               |
| Pressure    | 960hPa             | Test Voltage      | DC 3.85V by battery |
| Test Mode   | Mode 4             | Antenna Polarity  | Vertical            |



| PK Data List |              |                |             |                |             |             |           |          |
|--------------|--------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.          | Freq. [MHz]  | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1            | 3360.568028  | 40.88          | -10.69      | 74.00          | 33.12       | 150         | 359       | Vertical |
| 2            | 7206.160308  | 48.21          | -2.83       | 74.00          | 25.79       | 150         | 316       | Vertical |
| 3            | 8513.525676  | 48.70          | -1.50       | 74.00          | 25.30       | 150         | 356       | Vertical |
| 4            | 10891.944597 | 52.71          | 4.07        | 74.00          | 21.29       | 150         | 67        | Vertical |
| 5            | 12067.553378 | 52.20          | 3.22        | 74.00          | 21.80       | 150         | 249       | Vertical |
| 6            | 16363.668183 | 49.08          | 3.94        | 74.00          | 24.92       | 150         | 213       | Vertical |

| AV Final Data List |             |             |                   |                   |                |             |           |          |
|--------------------|-------------|-------------|-------------------|-------------------|----------------|-------------|-----------|----------|
| NO.                | Freq. [MHz] | Factor [dB] | AV Value [dBμV/m] | AV Limit [dBμV/m] | AV Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1                  | 7206.160308 | -2.83       | 36.80             | 54.00             | 17.20          | 150         | 316       | Vertical |

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| PK Data List |              |                |             |                |             |             |           |          |
|--------------|--------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.          | Freq. [MHz]  | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1            | 18778.111159 | 37.00          | -7.03       | 74.00          | 37.00       | 150         | 0         | Vertical |
| 2            | 20302.328904 | 37.64          | -6.59       | 74.00          | 36.36       | 150         | 240       | Vertical |
| 3            | 21269.467067 | 39.80          | -5.23       | 74.00          | 34.20       | 150         | 110       | Vertical |
| 4            | 23235.747964 | 42.23          | -3.30       | 74.00          | 31.77       | 150         | 250       | Vertical |
| 5            | 23985.855122 | 42.63          | -3.28       | 74.00          | 31.37       | 150         | 30        | Vertical |
| 6            | 24833.976282 | 42.16          | -2.98       | 74.00          | 31.84       | 150         | 150       | Vertical |

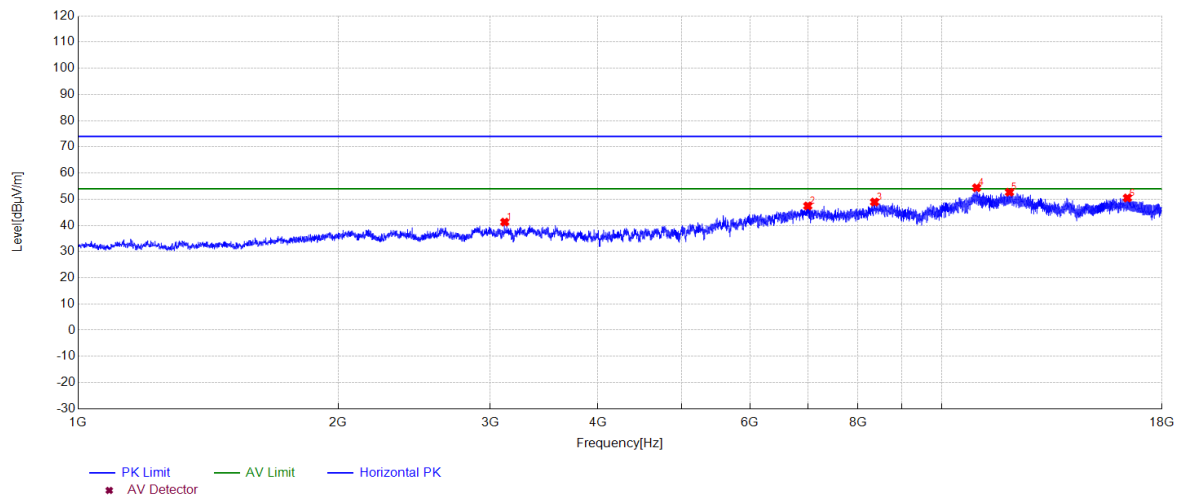
## RESULT: PASS

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### Radiated Emissions Test Results for Above 1GHz

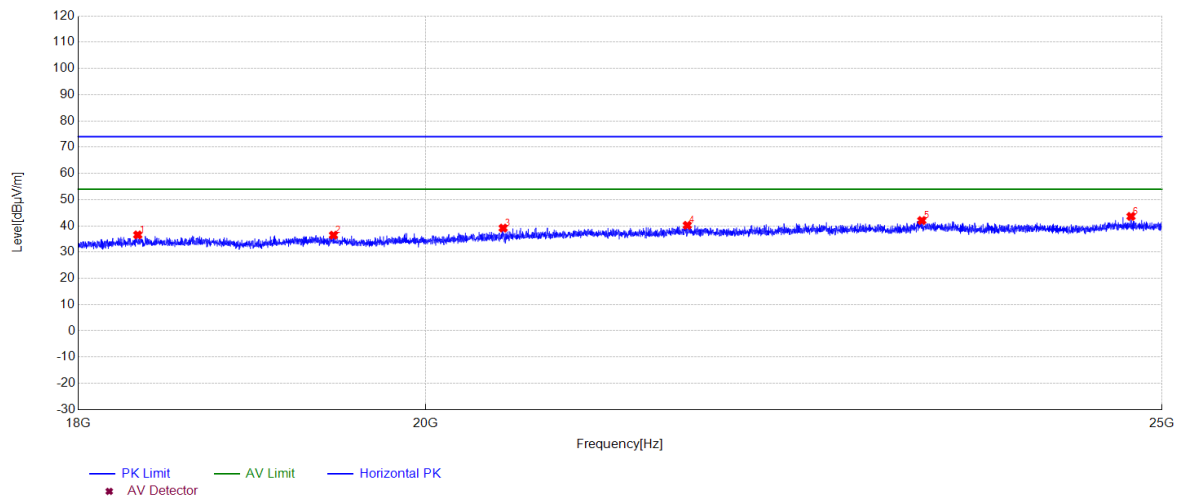
|                    |                    |                          |                     |
|--------------------|--------------------|--------------------------|---------------------|
| <b>EUT Name</b>    | Wireless Headphone | <b>Model Name</b>        | D1204               |
| <b>Temperature</b> | 21.5℃              | <b>Relative Humidity</b> | 53.1%               |
| <b>Pressure</b>    | 960hPa             | <b>Test Voltage</b>      | DC 3.85V by battery |
| <b>Test Mode</b>   | Mode 5             | <b>Antenna Polarity</b>  | Horizontal          |



| PK Data List |              |                |             |                |             |             |           |            |
|--------------|--------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO.          | Freq. [MHz]  | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1            | 3119.155958  | 41.26          | -11.01      | 74.00          | 32.74       | 150         | 190       | Horizontal |
| 2            | 6998.749938  | 47.44          | -2.54       | 74.00          | 26.56       | 150         | 357       | Horizontal |
| 3            | 8362.218111  | 48.93          | -2.09       | 74.00          | 25.07       | 150         | 168       | Horizontal |
| 4            | 10979.498975 | 54.38          | 4.48        | 74.00          | 19.62       | 150         | 306       | Horizontal |
| 5            | 11983.39917  | 52.68          | 3.30        | 74.00          | 21.32       | 150         | 349       | Horizontal |
| 6            | 16410.420521 | 50.48          | 3.94        | 74.00          | 23.52       | 150         | 146       | Horizontal |

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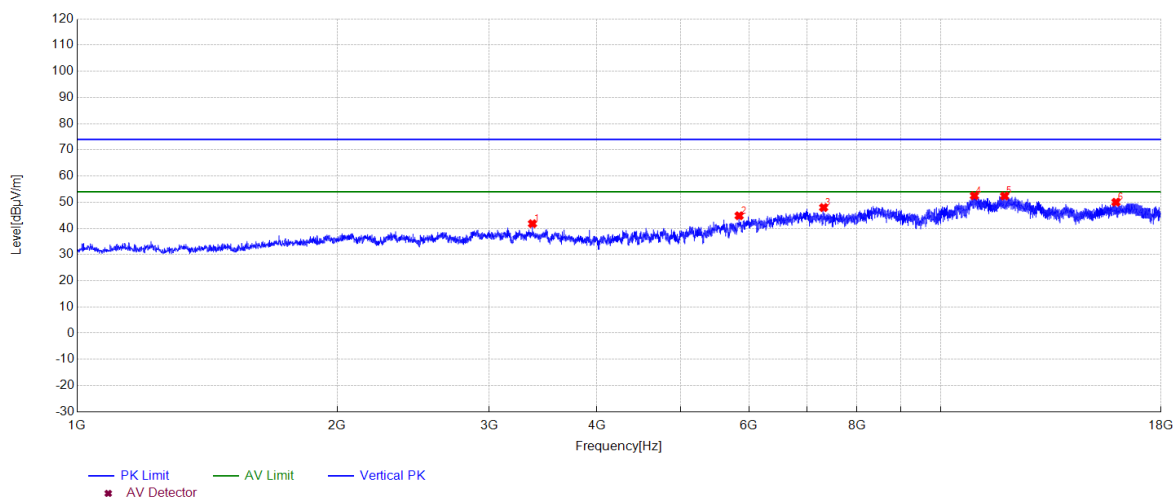


### PK Data List

| NO. | Freq. [MHz]  | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|--------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1   | 18328.046864 | 36.55          | -7.39       | 74.00          | 37.45       | 150         | 190       | Horizontal |
| 2   | 19448.206887 | 36.45          | -7.03       | 74.00          | 37.55       | 150         | 280       | Horizontal |
| 3   | 20474.353479 | 39.15          | -6.32       | 74.00          | 34.85       | 150         | 260       | Horizontal |
| 4   | 21649.52136  | 40.21          | -4.85       | 74.00          | 33.79       | 150         | 280       | Horizontal |
| 5   | 23244.74925  | 42.04          | -3.19       | 74.00          | 31.96       | 150         | 300       | Horizontal |
| 6   | 24765.966567 | 43.61          | -2.98       | 74.00          | 30.39       | 150         | 270       | Horizontal |

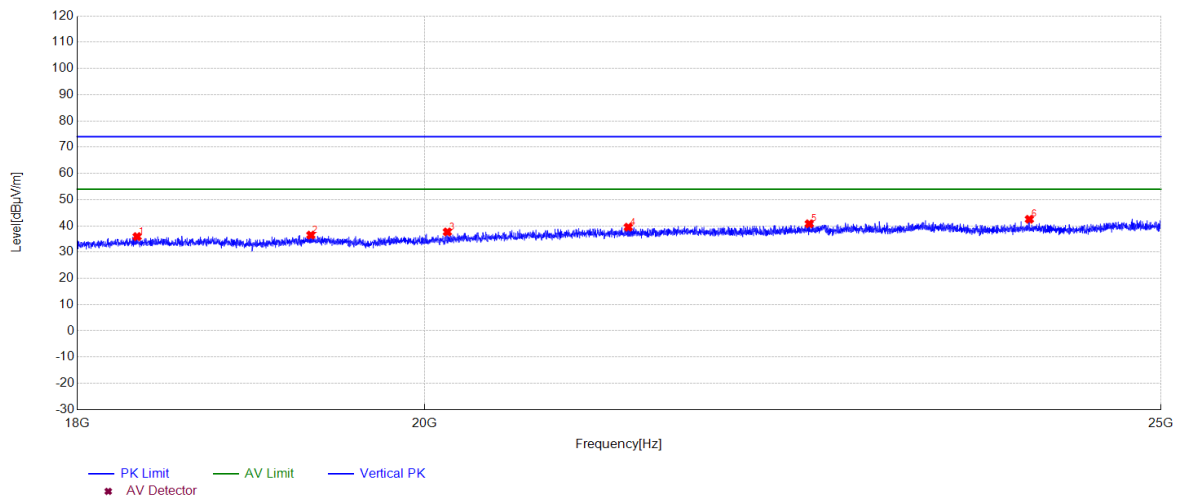
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|                    |                    |                          |                     |
|--------------------|--------------------|--------------------------|---------------------|
| <b>EUT Name</b>    | Wireless Headphone | <b>Model Name</b>        | D1204               |
| <b>Temperature</b> | 21.5℃              | <b>Relative Humidity</b> | 53.1%               |
| <b>Pressure</b>    | 960hPa             | <b>Test Voltage</b>      | DC 3.85V by battery |
| <b>Test Mode</b>   | Mode 5             | <b>Antenna Polarity</b>  | Vertical            |



| PK Data List |              |                |             |                |             |             |           |          |
|--------------|--------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.          | Freq. [MHz]  | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1            | 3367.368368  | 41.80          | -10.69      | 74.00          | 32.20       | 150         | 84        | Vertical |
| 2            | 5843.542177  | 44.83          | -5.41       | 74.00          | 29.17       | 150         | 192       | Vertical |
| 3            | 7320.066003  | 47.96          | -2.98       | 74.00          | 26.04       | 150         | 324       | Vertical |
| 4            | 10942.097105 | 52.48          | 4.30        | 74.00          | 21.52       | 150         | 185       | Vertical |
| 5            | 11858.442922 | 52.38          | 3.11        | 74.00          | 21.62       | 150         | 192       | Vertical |
| 6            | 15960.748037 | 50.00          | 3.87        | 74.00          | 24.00       | 150         | 33        | Vertical |

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#### PK Data List

| NO. | Freq. [MHz]  | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|--------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1   | 18330.04715  | 35.91          | -7.28       | 74.00          | 38.09       | 150         | 330       | Vertical |
| 2   | 19321.188741 | 36.48          | -6.96       | 74.00          | 37.52       | 150         | 250       | Vertical |
| 3   | 20137.305329 | 37.68          | -6.85       | 74.00          | 36.32       | 150         | 110       | Vertical |
| 4   | 21272.467495 | 39.50          | -5.22       | 74.00          | 34.50       | 150         | 200       | Vertical |
| 5   | 22471.638806 | 40.79          | -3.93       | 74.00          | 33.21       | 150         | 160       | Vertical |
| 6   | 24021.860266 | 42.51          | -3.27       | 74.00          | 31.49       | 150         | 210       | Vertical |

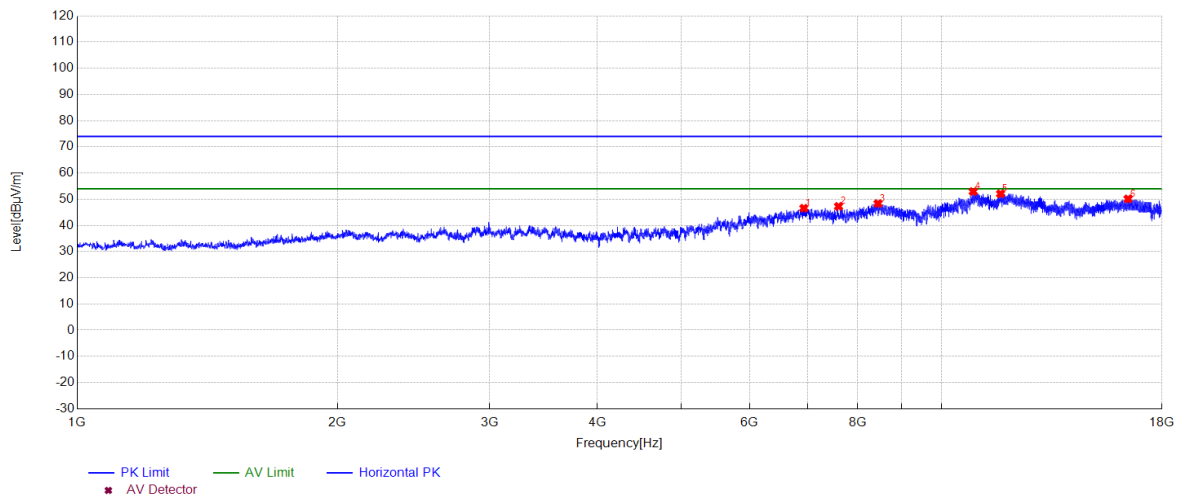
#### RESULT: Pass

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### Radiated Emissions Test Results for Above 1GHz

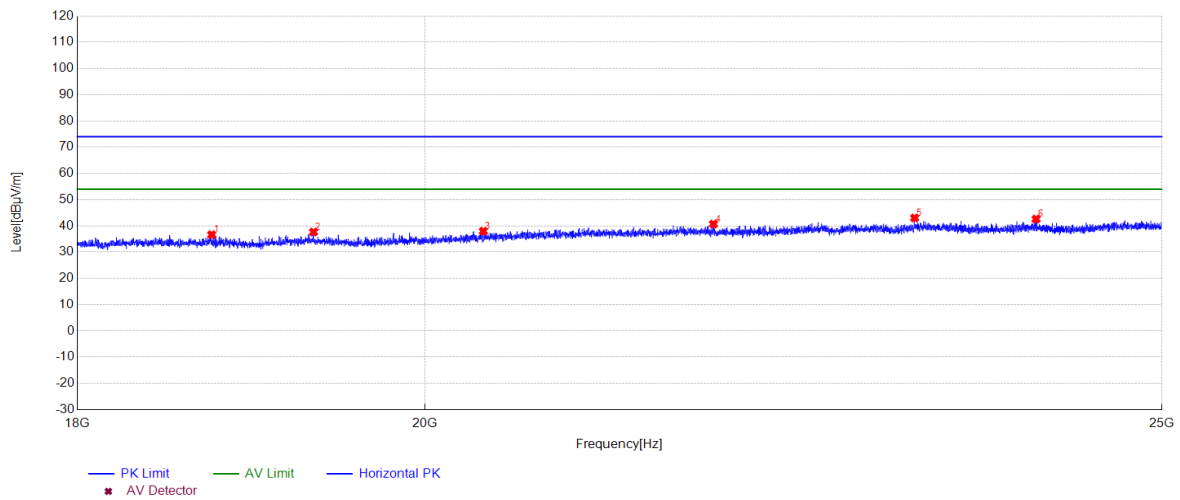
|             |                    |                   |                     |
|-------------|--------------------|-------------------|---------------------|
| EUT Name    | Wireless Headphone | Model Name        | D1204               |
| Temperature | 21.5℃              | Relative Humidity | 53.1%               |
| Pressure    | 960hPa             | Test Voltage      | DC 3.85V by battery |
| Test Mode   | Mode 6             | Antenna Polarity  | Horizontal          |



| PK Data List |              |                |             |                |             |             |           |            |
|--------------|--------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO.          | Freq. [MHz]  | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1            | 6931.59658   | 46.56          | -2.76       | 74.00          | 27.44       | 150         | 188       | Horizontal |
| 2            | 7603.130157  | 47.25          | -3.31       | 74.00          | 26.75       | 150         | 304       | Horizontal |
| 3            | 8446.372319  | 48.33          | -1.73       | 74.00          | 25.67       | 150         | 152       | Horizontal |
| 4            | 10884.294215 | 52.93          | 4.04        | 74.00          | 21.07       | 150         | 203       | Horizontal |
| 5            | 11707.985399 | 52.08          | 2.89        | 74.00          | 21.92       | 150         | 358       | Horizontal |
| 6            | 16443.572179 | 50.11          | 3.94        | 74.00          | 23.89       | 150         | 173       | Horizontal |

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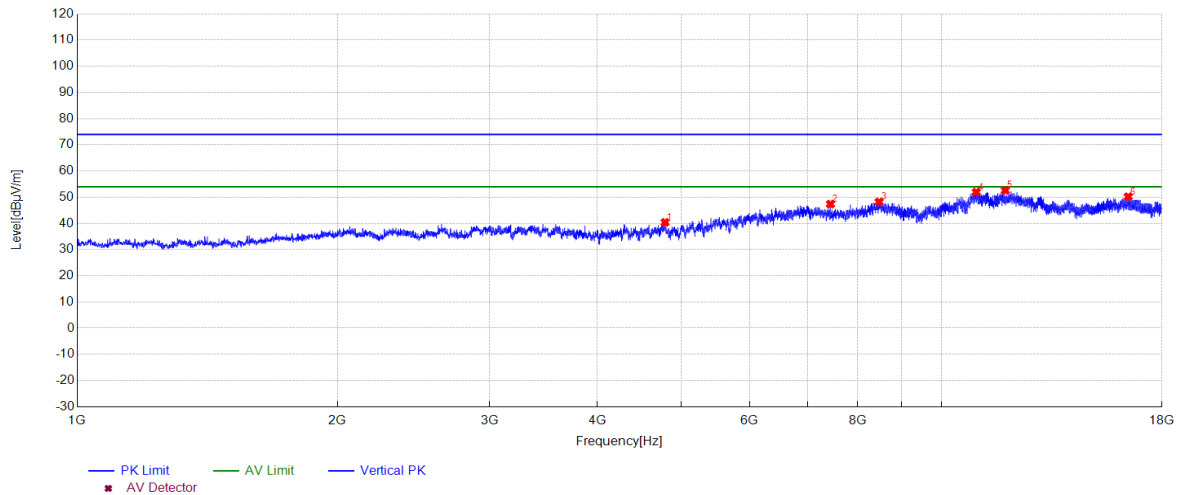


### PK Data List

| NO. | Freq. [MHz]  | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|--------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1   | 18748.106872 | 36.64          | -7.15       | 74.00          | 37.36       | 150         | 310       | Horizontal |
| 2   | 19335.190742 | 37.65          | -7.02       | 74.00          | 36.35       | 150         | 310       | Horizontal |
| 3   | 20355.336477 | 37.99          | -6.51       | 74.00          | 36.01       | 150         | 330       | Horizontal |
| 4   | 21824.546364 | 40.69          | -4.67       | 74.00          | 33.31       | 150         | 220       | Horizontal |
| 5   | 23195.742249 | 43.02          | -3.19       | 74.00          | 30.98       | 150         | 310       | Horizontal |
| 6   | 24064.86641  | 42.59          | -3.17       | 74.00          | 31.41       | 150         | 80        | Horizontal |

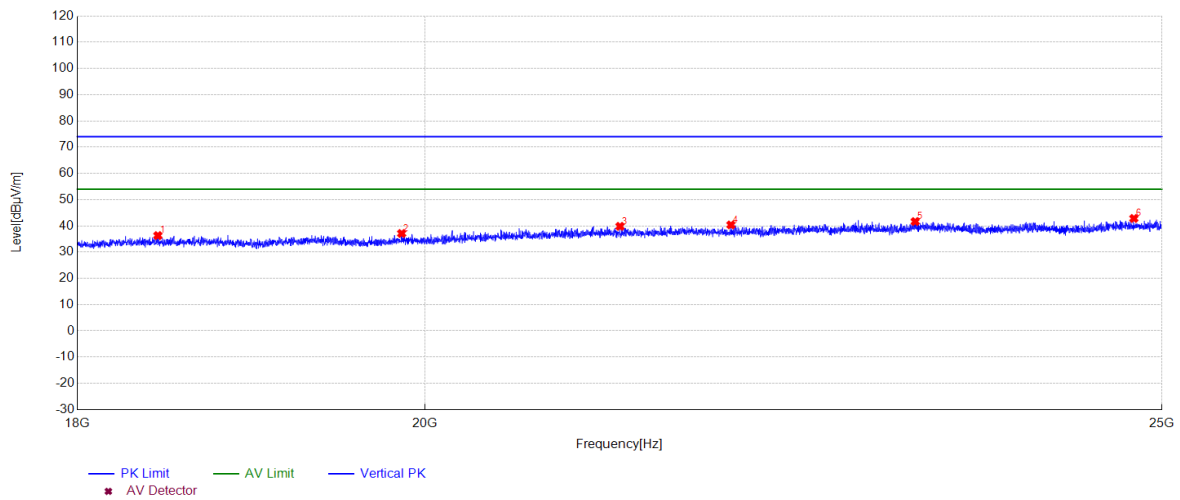
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|             |                    |                   |                     |
|-------------|--------------------|-------------------|---------------------|
| EUT Name    | Wireless Headphone | Model Name        | D1204               |
| Temperature | 21.5°C             | Relative Humidity | 53.1%               |
| Pressure    | 960hPa             | Test Voltage      | DC 3.85V by battery |
| Test Mode   | Mode 6             | Antenna Polarity  | Vertical            |



| PK Data List |              |                |             |                |             |             |           |          |
|--------------|--------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.          | Freq. [MHz]  | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1            | 4789.489475  | 40.41          | -8.84       | 74.00          | 33.59       | 150         | 134       | Vertical |
| 2            | 7440.772039  | 47.37          | -3.15       | 74.00          | 26.63       | 150         | 294       | Vertical |
| 3            | 8470.173509  | 48.20          | -1.62       | 74.00          | 25.80       | 150         | 0         | Vertical |
| 4            | 10974.39872  | 51.97          | 4.46        | 74.00          | 22.03       | 150         | 46        | Vertical |
| 5            | 11855.042752 | 52.60          | 3.11        | 74.00          | 21.40       | 150         | 7         | Vertical |
| 6            | 16452.072604 | 50.19          | 3.94        | 74.00          | 23.81       | 150         | 11        | Vertical |

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#### PK Data List

| NO. | Freq. [MHz]  | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|--------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1   | 18445.063581 | 36.30          | -7.22       | 74.00          | 37.70       | 150         | 90        | Vertical |
| 2   | 19858.265467 | 37.10          | -7.04       | 74.00          | 36.90       | 150         | 260       | Vertical |
| 3   | 21215.459351 | 39.82          | -5.28       | 74.00          | 34.18       | 150         | 100       | Vertical |
| 4   | 21940.562938 | 40.36          | -4.55       | 74.00          | 33.64       | 150         | 220       | Vertical |
| 5   | 23199.74282  | 41.64          | -3.30       | 74.00          | 32.36       | 150         | 110       | Vertical |
| 6   | 24787.96971  | 42.82          | -2.99       | 74.00          | 31.18       | 150         | 130       | Vertical |

#### RESULT: Pass

##### Note:

- Factor = Antenna Factor + Cable loss – Pre-amplifier gain, Margin = Emission Level - Limit.
- The “Factor” value can be calculated automatically by software of measurement system.
- All test modes had been pre-tested. The BLE GFSK 2Mbps is the worst case and recorded in the report.

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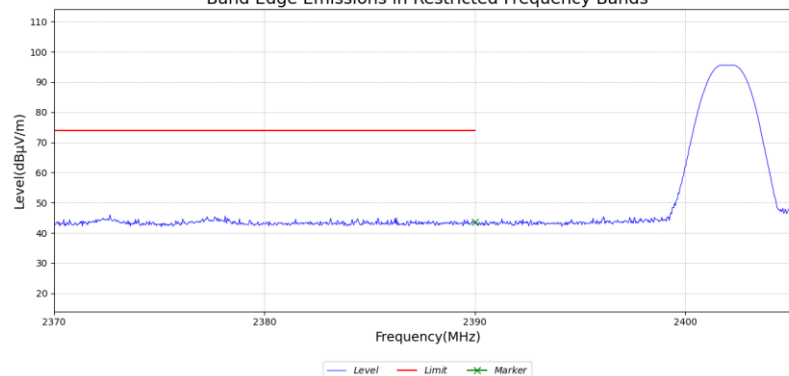
### Band Edge Emission Test Results for Restricted Bands

|             |                    |                   |                     |
|-------------|--------------------|-------------------|---------------------|
| EUT Name    | Wireless Headphone | Model Name        | D1204               |
| Temperature | 25.0°C             | Relative Humidity | 50.0%               |
| Pressure    | 960hPa             | Test Voltage      | DC 3.85V by battery |

#### Bluetooth Tx CH00\_2402 MHz\_1Mbps

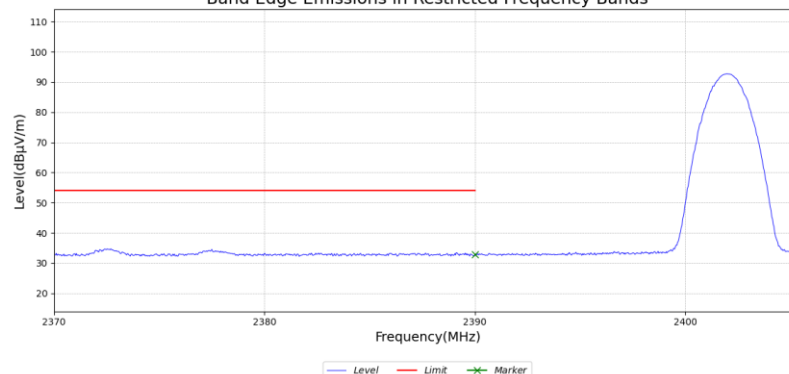
##### Test Graph for Peak Measurement- Horizontal

Band Edge Emissions in Restricted Frequency Bands



##### Test Graph for Average Measurement- Horizontal

Band Edge Emissions in Restricted Frequency Bands



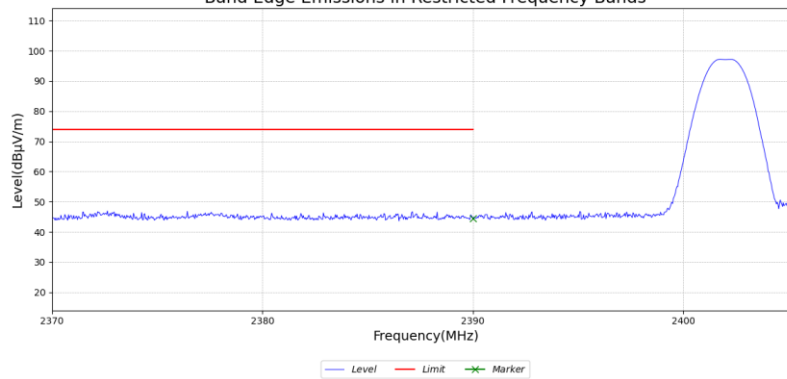
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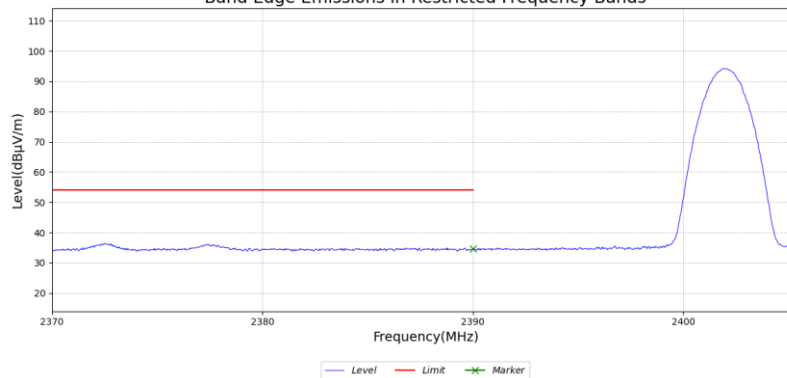
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Test Graph for Peak Measurement- Vertical  
Band Edge Emissions in Restricted Frequency Bands



Test Graph for Average Measurement- Vertical  
Band Edge Emissions in Restricted Frequency Bands



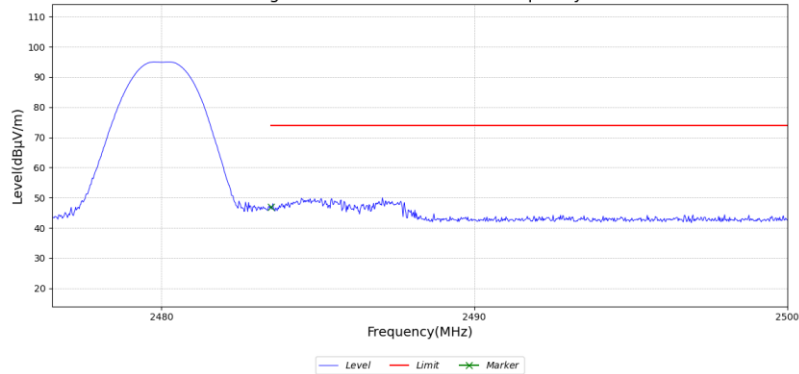
| Item (Mark) | Freq. MHz | Reading dBμV | Ant. Fac. dB/m | PRM Factor dB | Cable Loss dB | Level dBμV/m | Limit dBμV/m | Margin dB | Detector | Pol.       |
|-------------|-----------|--------------|----------------|---------------|---------------|--------------|--------------|-----------|----------|------------|
| 1           | 2390.00   | 35.39        | 29.99          | 30.21         | 8.35          | 43.52        | 74           | -30.48    | Peak     | Horizontal |
| 2           | 2390.00   | 24.69        | 29.99          | 30.21         | 8.35          | 32.82        | 54           | -21.18    | AV       | Horizontal |
| 3           | 2390.00   | 36.35        | 29.99          | 30.21         | 8.35          | 44.48        | 74           | -29.52    | Peak     | Vertical   |
| 4           | 2390.00   | 26.54        | 29.99          | 30.21         | 8.35          | 34.67        | 54           | -19.33    | AV       | Vertical   |

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### Bluetooth Tx CH39 2480 MHz 1Mbps

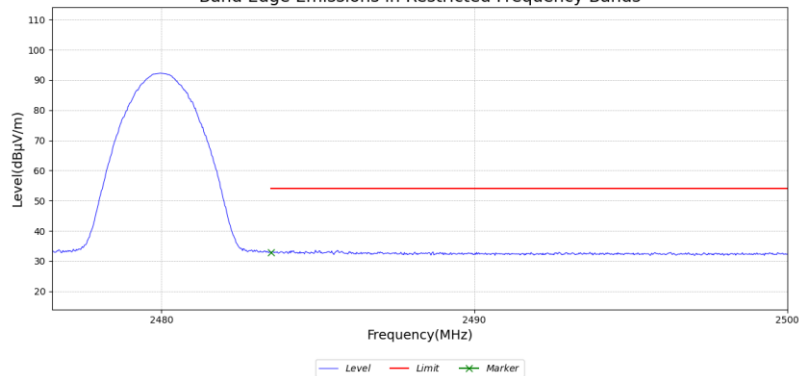
#### Test Graph for Peak Measurement- Horizontal

Band Edge Emissions in Restricted Frequency Bands



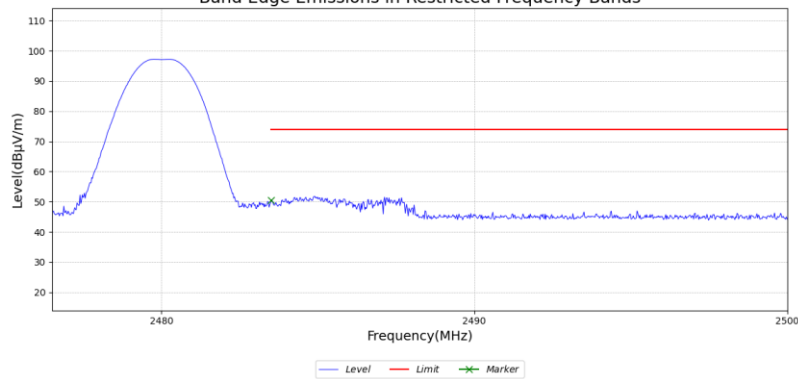
#### Test Graph for Average Measurement- Horizontal

Band Edge Emissions in Restricted Frequency Bands

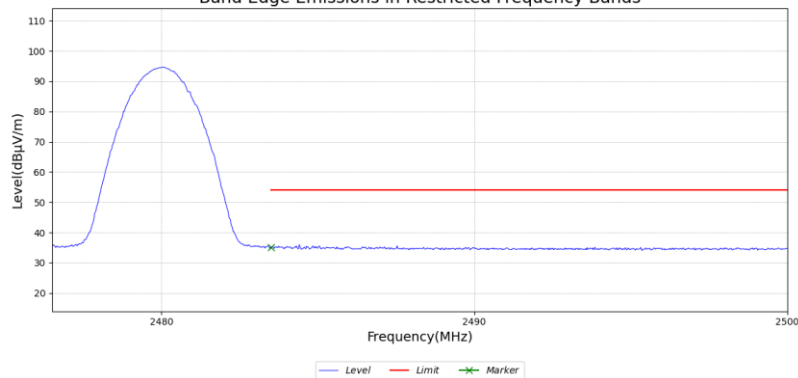


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Test Graph for Peak Measurement- Vertical  
Band Edge Emissions in Restricted Frequency Bands



Test Graph for Average Measurement- Vertical  
Band Edge Emissions in Restricted Frequency Bands



| Item (Mark) | Freq. MHz | Reading dBμV | Ant. Fac. dB/m | PRM Factor dB | Cable Loss dB | Level dBμV/m | Limit dBμV/m | Margin dB | Detector | Pol.       |
|-------------|-----------|--------------|----------------|---------------|---------------|--------------|--------------|-----------|----------|------------|
| 1           | 2483.50   | 38.41        | 30.25          | 30.25         | 8.5           | 46.91        | 74           | -27.09    | Peak     | Horizontal |
| 2           | 2483.50   | 24.30        | 30.25          | 30.25         | 8.5           | 32.8         | 54           | -21.20    | AV       | Horizontal |
| 3           | 2483.50   | 41.99        | 30.25          | 30.25         | 8.5           | 50.49        | 74           | -23.51    | Peak     | Vertical   |
| 4           | 2483.50   | 26.73        | 30.25          | 30.25         | 8.5           | 35.23        | 54           | -18.77    | AV       | Vertical   |

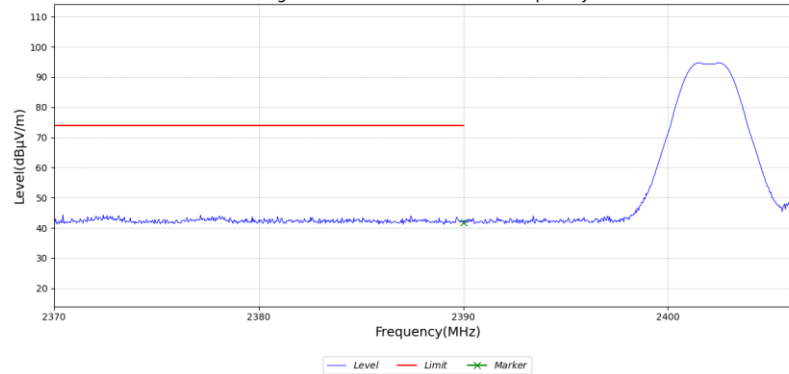
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### Bluetooth Tx CH00 2402 MHz 2Mbps

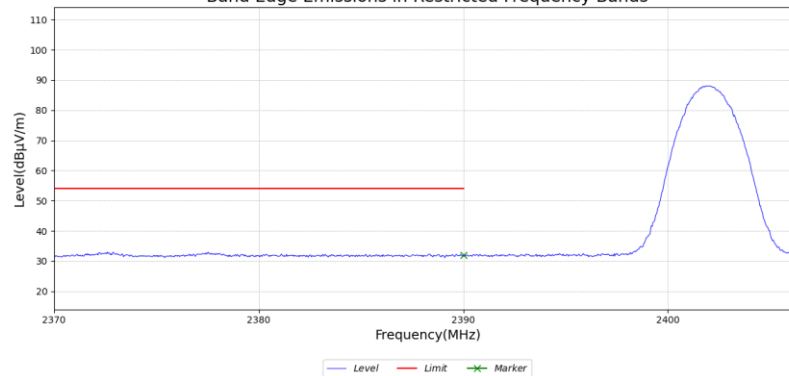
#### Test Graph for Peak Measurement- Horizontal

Band Edge Emissions in Restricted Frequency Bands



#### Test Graph for Average Measurement- Horizontal

Band Edge Emissions in Restricted Frequency Bands



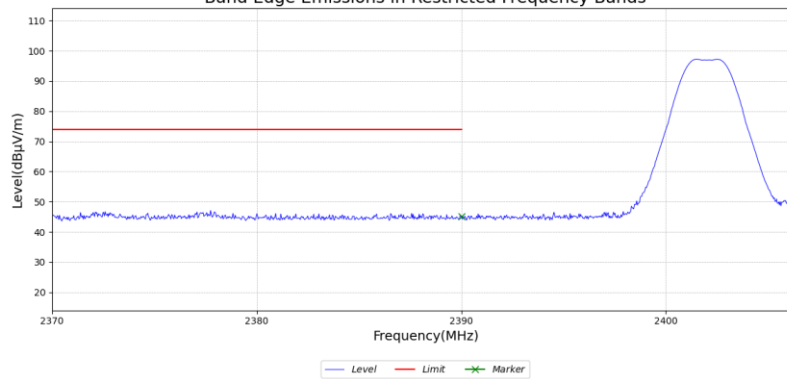
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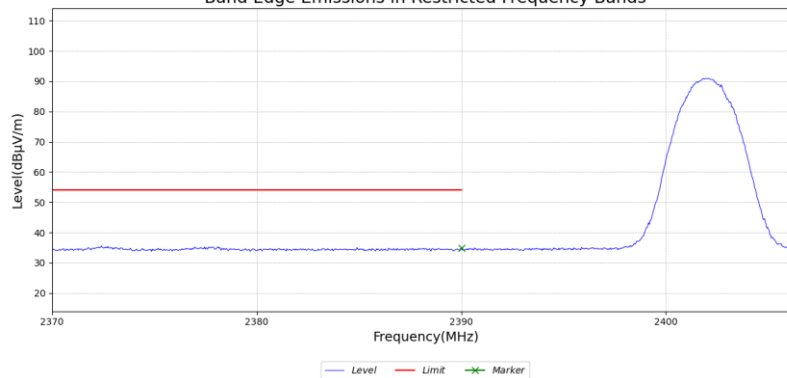
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Test Graph for Peak Measurement- Vertical  
Band Edge Emissions in Restricted Frequency Bands



Test Graph for Average Measurement- Vertical  
Band Edge Emissions in Restricted Frequency Bands



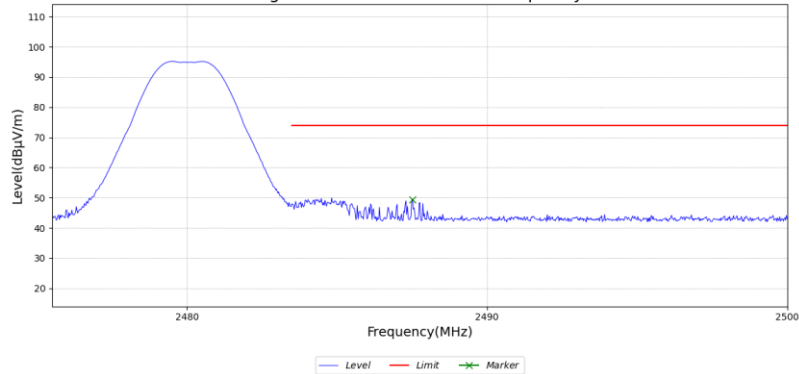
| Item (Mark) | Freq. MHz | Reading dBμV | Ant. Fac. dB/m | PRM Factor dB | Cable Loss dB | Level dBμV/m | Limit dBμV/m | Margin dB | Detector | Pol.       |
|-------------|-----------|--------------|----------------|---------------|---------------|--------------|--------------|-----------|----------|------------|
| 1           | 2390.00   | 33.79        | 29.99          | 30.21         | 8.35          | 41.92        | 74           | -32.08    | Peak     | Horizontal |
| 2           | 2390.00   | 23.80        | 29.99          | 30.21         | 8.35          | 31.93        | 54           | -22.07    | AV       | Horizontal |
| 3           | 2390.00   | 37.06        | 29.99          | 30.21         | 8.35          | 45.19        | 74           | -28.81    | Peak     | Vertical   |
| 4           | 2390.00   | 26.72        | 29.99          | 30.21         | 8.35          | 34.85        | 54           | -19.15    | AV       | Vertical   |

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### Bluetooth Tx CH39 2480 MHz 2Mbps

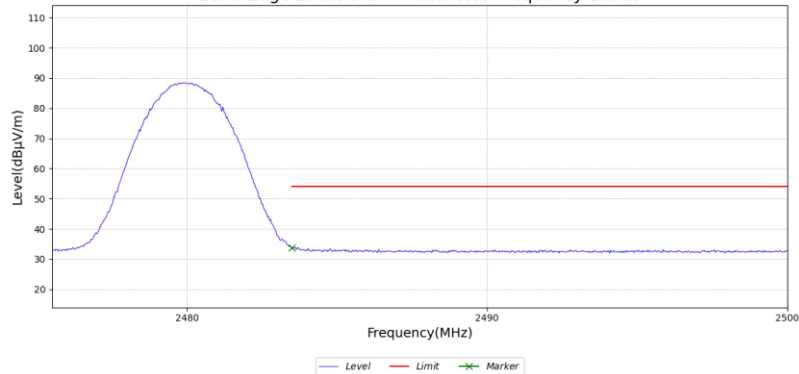
#### Test Graph for Peak Measurement- Horizontal

Band Edge Emissions in Restricted Frequency Bands



#### Test Graph for Average Measurement- Horizontal

Band Edge Emissions in Restricted Frequency Bands

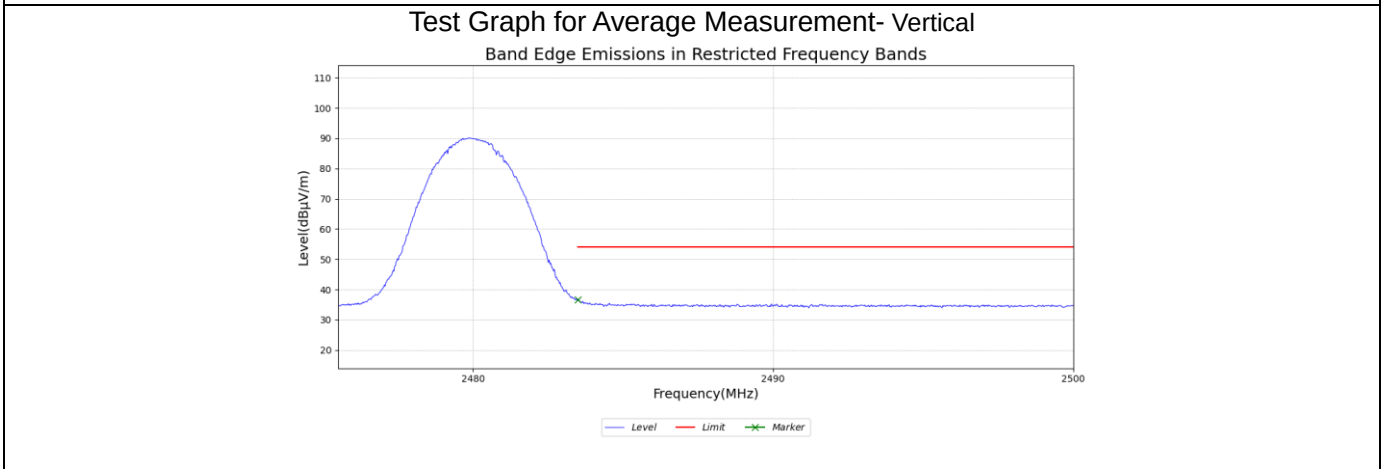
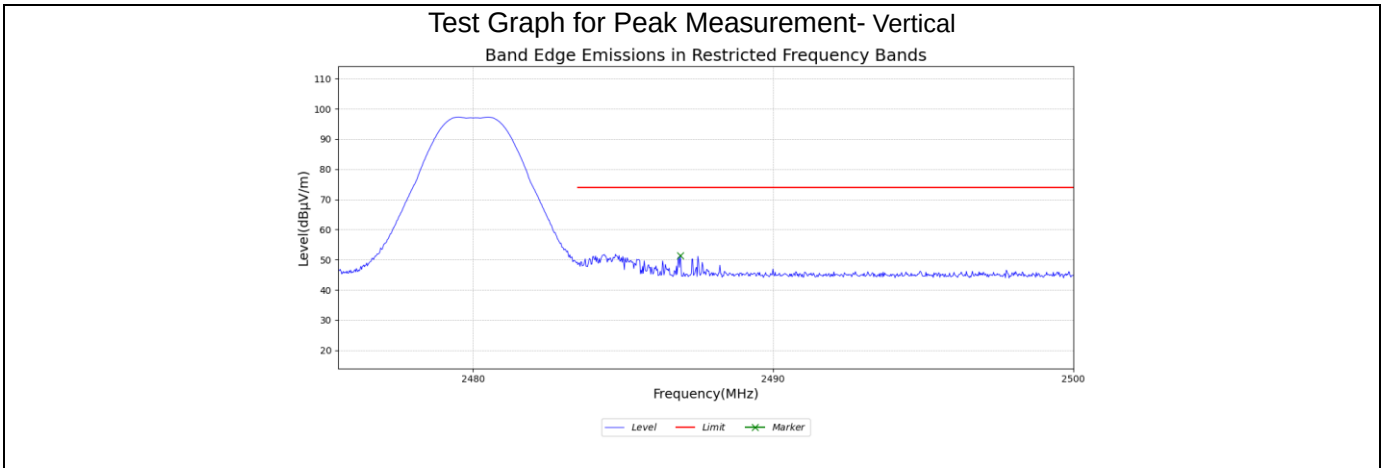


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| Item (Mark) | Freq. MHz | Reading dBμV | Ant. Fac. dB/m | PRM Factor dB | Cable Loss dB | Level dBμV/m | Limit dBμV/m | Margin dB | Detector | Pol.       |
|-------------|-----------|--------------|----------------|---------------|---------------|--------------|--------------|-----------|----------|------------|
| 1           | 2483.50   | 40.98        | 30.25          | 30.25         | 8.5           | 49.48        | 74           | -24.52    | Peak     | Horizontal |
| 2           | 2483.50   | 25.38        | 30.25          | 30.25         | 8.5           | 33.88        | 54           | -20.12    | AV       | Horizontal |
| 3           | 2483.50   | 42.84        | 30.25          | 30.25         | 8.5           | 51.34        | 74           | -22.66    | Peak     | Vertical   |
| 4           | 2483.50   | 28.08        | 30.25          | 30.25         | 8.5           | 36.58        | 54           | -17.42    | AV       | Vertical   |

Remark:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. Margin = Emission Level - Limit.
3. The duty cycle coefficient has been corrected into the spectrum analyzer readings.

**RESULT: PASS**

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## 12. AC Power Line Conducted Emission Test

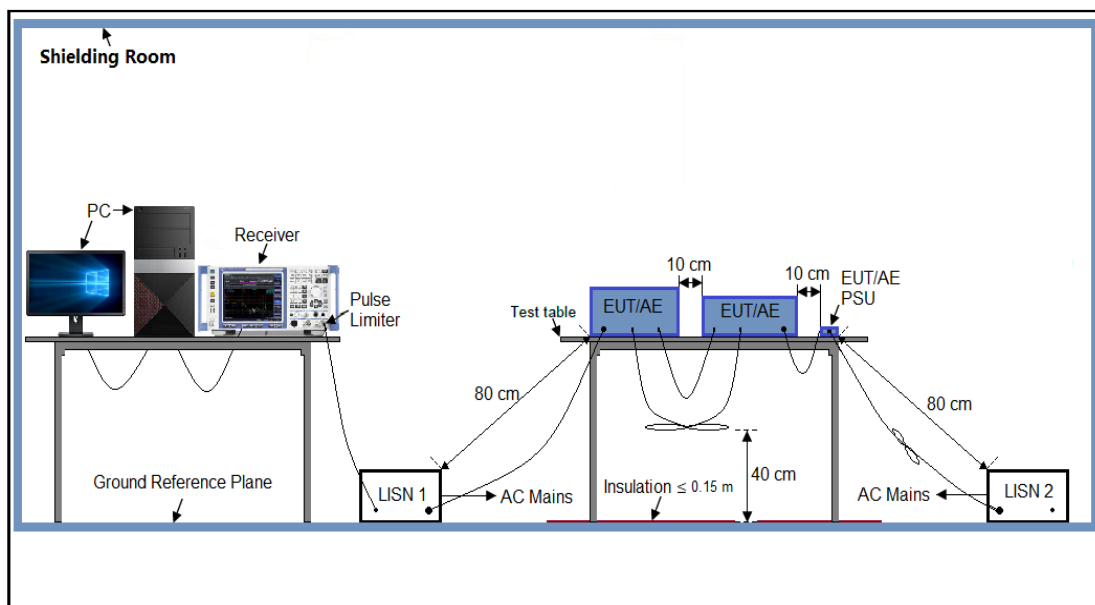
### 12.1 Measurement Limit

| Frequency     | Maximum RF Line Voltage |                      |
|---------------|-------------------------|----------------------|
|               | Q.P. (dB $\mu$ V)       | Average (dB $\mu$ V) |
| 150kHz~500kHz | 66-56                   | 56-46                |
| 500kHz~5MHz   | 56                      | 46                   |
| 5MHz~30MHz    | 60                      | 50                   |

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

### 12.2 Measurement Setup (Block Diagram of Configuration)



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