
FCC Test Report

Report No.: AGC14499230501FE05

FCC ID : 2APPZ-W610W
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : Portable Wi-Fi Phone
BRAND NAME : **LINKVIL**
MODEL NAME : W610W
APPLICANT : Fanvil Technology Co., Ltd.
DATE OF ISSUE : Jun. 14, 2023
STANDARD(S) : FCC Part 15.247
TEST PROCEDURE(S)
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 | / | Jun. 14, 2023 | Valid | Initial Release |

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1. VERIFICATION OF CONFORMITY

| | |
|-------------------------------------|---|
| Applicant | Fanvil Technology Co., Ltd. |
| Address | 10/F Block A, Dualshine Global Science Innovation , Honglang North 2nd Road, Bao'an District, Shenzhen, China |
| manufacturer | Fanvil Technology Co., Ltd. |
| Address | 10/F Block A, Dualshine Global Science Innovation , Honglang North 2nd Road, Bao'an District, Shenzhen, China |
| Factory | Fanvil Technology Co., Ltd. |
| Address | 10/F Block A, Dualshine Global Science Innovation , Honglang North 2nd Road, Bao'an District, Shenzhen, China |
| Product Designation | Portable Wi-Fi Phone |
| Brand Name | LINKVIL |
| Test Model | W610W |
| Date of receipt of test item | May 30. 2023 |
| Date of test | May 30. 2023 to Jun. 14, 2023 |
| Deviation | No any deviation from the test method |
| Condition of Test Sample | Normal |
| Test Result | Pass |
| Report Template | AGCRT-US-BGN/RF |

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.247.

Prepared By



Alan Duan
(Project Engineer)

Jun. 14, 2023

Reviewed By



Calvin Liu
(Reviewer)

Jun. 14, 2023

Approved By



Max Zhang
(Authorized Officer)

Jun. 14, 2023

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as “Portable Wi-Fi Phone”. It is designed by way of utilizing the DSSS and OFDM technology to achieve the system operation.

A major technical description of EUT is described as following

| | |
|-------------------------------|---|
| Equipment Type | WLAN 2.4G |
| Frequency Band | 2400MHz ~ 2483.5MHz |
| Operation Frequency | 2412MHz ~ 2462MHz |
| Output Power (Average) | IEEE 802.11b:13.47dBm; IEEE 802.11g:12.55dBm; IEEE 802.11n(HT20):12.06dBm |
| Output Power (Peak) | IEEE 802.11b:16.05dBm; IEEE 802.11g:20.12dBm; IEEE 802.11n(HT20):19.70dBm |
| Modulation | 802.11b:DQPSK, DBPSK, CCK 802.11g/n: 64-QAM, 16-QAM, QPSK, BPSK |
| Data Rate | 802.11b: 1/2/5.5/11Mbps 802.11g: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps |
| Number of channels | 11 |
| Hardware Version | V1.0 |
| Software Version | Beta_1.0.4 |
| Antenna Designation | Internal antenna (Comply with requirements of the FCC part 15.203) |
| Antenna Gain | 4.2dBi |
| Power Supply | DC 3.8V by battery or DC 5V by adapter |

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2.2. TABLE OF CARRIER FREQUENCIES

| Frequency Band | Channel Number | Frequency |
|----------------|----------------|-----------|
| 2400~2483.5MHZ | 1 | 2412 MHZ |
| | 2 | 2417 MHZ |
| | 3 | 2422 MHZ |
| | 4 | 2427 MHZ |
| | 5 | 2432 MHZ |
| | 6 | 2437 MHZ |
| | 7 | 2442 MHZ |
| | 8 | 2447 MHZ |
| | 9 | 2452 MHZ |
| | 10 | 2457 MHZ |
| | 11 | 2462 MHZ |

Note: For 20MHZ bandwidth system use Channel 1 to Channel 11. For 40MHZ bandwidth system use Channel 3 to Channel 9

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2.3. IEEE 802.11N MODULATION SCHEME

| MCS Index | Nss | Modulation | R | NBPS | NCBPS | | NDBPS | | Data rate(Mbps) | |
|-----------|-----|------------|-----|------|-------|-------|-------|-------|-----------------|-------|
| | | | | | | | | | 800nsGI | |
| | | | | | 20MHz | 40MHz | 20MHz | 40MHz | 20MHz | 40MHz |
| 0 | 1 | BPSK | 1/2 | 1 | 52 | 108 | 26 | 54 | 6.5 | 13.5 |
| 1 | 1 | QPSK | 1/2 | 2 | 104 | 216 | 52 | 108 | 13.0 | 27.0 |
| 2 | 1 | QPSK | 3/4 | 2 | 104 | 216 | 78 | 162 | 19.5 | 40.5 |
| 3 | 1 | 16-QAM | 1/2 | 4 | 208 | 432 | 104 | 216 | 26.0 | 54.0 |
| 4 | 1 | 16-QAM | 3/4 | 4 | 208 | 432 | 156 | 324 | 39.0 | 81.0 |
| 5 | 1 | 64-QAM | 2/3 | 6 | 312 | 648 | 208 | 432 | 52.0 | 108.0 |
| 6 | 1 | 64-QAM | 3/4 | 6 | 312 | 648 | 234 | 489 | 58.5 | 121.5 |
| 7 | 1 | 64-QAM | 5/6 | 6 | 312 | 648 | 260 | 540 | 65.0 | 135.0 |

| Symbol | Explanation |
|--------|---|
| NSS | Number of spatial streams |
| R | Code rate |
| NBPS | Number of coded bits per single carrier |
| NCBPS | Number of coded bits per symbol |
| NDBPS | Number of data bits per symbol |
| GI | Guard interval |

2.4. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2APPZ-W610W** filing to comply with the FCC Part 15 requirements.

2.5. TEST METHODOLOGY

KDB 558074 D01 15.247 Meas Guidance v05: Guidance for compliance measurements on Digital transmission system, frequency hopping spread spectrum system, and hybrid system devices operating under section 15.247 of the FCC rules
ANSI C63.10:2013: American National Standard for Testing Unlicensed Wireless Devices

2.6. SPECIAL ACCESSORIES

Refer to section 5.2.

2.7. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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2.8. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

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3. MEASUREMENT UNCERTAINTY

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

| Item | Measurement Uncertainty |
|---|----------------------------|
| Uncertainty of Conducted Emission for AC Port | $U_c = \pm 3.1 \text{ dB}$ |
| Uncertainty of Radiated Emission below 1GHz | $U_c = \pm 4.0 \text{ dB}$ |
| Uncertainty of Radiated Emission above 1GHz | $U_c = \pm 4.8 \text{ dB}$ |
| 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 | $U_c = \pm 2.7 \%$ |
| Uncertainty of Occupied Channel Bandwidth | $U_c = \pm 2 \%$ |

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4. DESCRIPTION OF TEST MODES

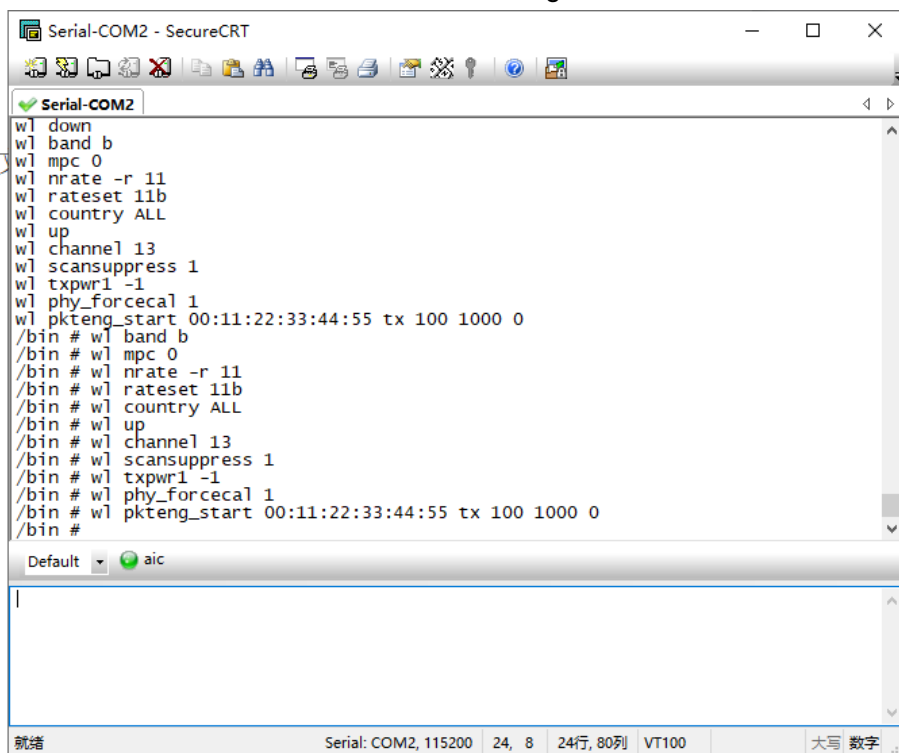
| NO. | TEST MODE DESCRIPTION |
|-----|----------------------------------|
| 1 | Low channel transmitting (TX) |
| 2 | Middle channel transmitting (TX) |
| 3 | High channel transmitting (TX) |

Note:
 Transmit by 802.11b with Data rate (1/2/5.5/11)
 Transmit by 802.11g with Data rate (6/9/12/18/24/36/48/54)
 Transmit by 802.11n (20MHz) with Data rate (6.5/13/19.5/26/39/52/58.5/65)
 Transmit by 802.11n (40MHz) with Data rate (13.5/27/40.5/54/81/108/121.5/135)
 The test channel for 20MHZ bandwidth system is channel 1, 6 and 11.
 The test channel for 40MHZ bandwidth system is channel 3, 6 and 9.

Note:

1. The EUT has been set to operate continuously on the lowest, middle and highest operation frequency Individually, and the EUT is operating at its maximum duty cycle>or equal 98%
2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.

Software Setting



```

Serial-COM2 - SecureCRT
Serial-COM2
wl down
wl band b
wl mpc 0
wl nrate -r 11
wl rateset 11b
wl country ALL
wl up
wl channel 13
wl scansuppress 1
wl txpwr1 -1
wl phy_forcecal 1
wl pkteng_start 00:11:22:33:44:55 tx 100 1000 0
/bin # wl band b
/bin # wl mpc 0
/bin # wl nrate -r 11
/bin # wl rateset 11b
/bin # wl country ALL
/bin # wl up
/bin # wl channel 13
/bin # wl scansuppress 1
/bin # wl txpwr1 -1
/bin # wl phy_forcecal 1
/bin # wl pkteng_start 00:11:22:33:44:55 tx 100 1000 0
/bin #
Default aic
  
```

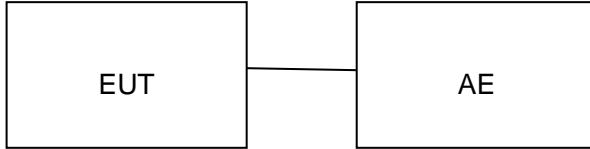
就绪 Serial: COM2, 115200 24, 8 24行, 80列 VT100 大写 数字

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure:



5.2. EQUIPMENT USED IN EUT SYSTEM

| Item | Equipment | Model No. | ID or Specification | Remark |
|------|----------------------|--------------------|---|--------|
| 1 | Portable Wi-Fi Phone | W610W | 2APPZ-W610W | EUT |
| 2 | Earphone | N/A | 0.6m unshielded | AE |
| 3 | Adapter | AS1201A-0502000USL | Input: 100-240V, 50/60Hz, 0.35A Output: 2000mA | AE |

5.3. 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)(1) | RF Output Power | Pass |
| 3 | §15.247 (a)(1) | 6 dB Bandwidth | Pass |
| 4 | §15.247 (e) | Power Spectral Density | Pass |
| 4 | §15.247 (d) | Conducted Spurious Emission | Pass |
| 5 | §15.209 | Radiated Emission& Band Edge | Pass |
| 6 | §15.207 | AC Power Line Conducted Emission | Pass |

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6. TEST FACILITY

| | |
|--|--|
| Test Site | Attestation of Global Compliance (Shenzhen) Co., Ltd |
| Location | 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China |
| Designation Number | CN1259 |
| FCC Test Firm Registration Number | 975832 |
| A2LA Cert. No. | 5054.02 |
| Description | Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA |

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

| Equipment | Manufacturer | Model | S/N | Cal. Date | Cal. Due |
|---------------|--------------|------------------|--------|---------------|---------------|
| TEST RECEIVER | R&S | ESPI | 101206 | Aug. 04, 2022 | Aug. 03, 2023 |
| LISN | R&S | ESH2-Z5 | 100086 | Jun. 03, 2023 | Jun. 02, 2024 |
| Test software | R&S | ES-K1(Ver.V1.71) | N/A | N/A | N/A |

TEST EQUIPMENT OF RADIATED EMISSION TEST

| Equipment | Manufacturer | Model | S/N | Cal. Date | Cal. Due |
|--------------------------------|----------------|-------------------|--------------|---------------|---------------|
| TEST RECEIVER | R&S | ESCI | 10096 | Feb. 18, 2023 | Feb. 17, 2024 |
| EXA Signal Analyzer | Aglient | N9010A | MY53470504 | Aug. 04, 2022 | Aug. 03, 2023 |
| Signal Analyzer | Aglient | N9020A | MY52090123 | Aug. 04, 2022 | Aug. 03, 2023 |
| 2.4GHz Filter | EM Electronics | N/A | N/A | Mar. 18, 2022 | Mar. 19, 2024 |
| Attenuator | ZHINAN | E-002 | N/A | Aug. 04, 2022 | Aug. 03, 2024 |
| Horn Antenna | SCHWARZBEC | BBHA9170 | 768 | Oct. 31, 2021 | Oct. 30, 2023 |
| Active Loop Antenna (9K-30Mhz) | ZHINAN | ZN30900C | 18051 | Mar. 12, 2022 | Mar. 11, 2024 |
| Double-Ridged Waveguide Horn | ETS | 3117 | 00034609 | Apr. 23, 2023 | Apr. 22, 2024 |
| Double-Ridged Waveguide Horn | ETS | 3117 | 00154520 | Sep. 06, 2021 | Sep. 05, 2023 |
| Preamplifier Assembly | ETS | 3117PA | 00225134 | Sep. 01, 2022 | Sep. 02, 2024 |
| Wideband Antenna | SCHWARZBECK | VULB9168 | VULB9168-494 | Jan. 05, 2023 | Jan. 04, 2025 |
| Test software | Tonscend | JS32-RE (Ver.2.5) | N/A | N/A | N/A |

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7. OUTPUT POWER

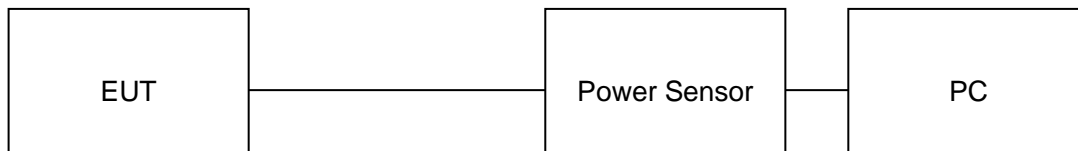
7.1. MEASUREMENT PROCEDURE

For average power test:

1. Connect EUT RF output port to power sensor through an RF attenuator.
2. Connect the power sensor to the PC.
3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
4. Record the maximum power from the software.

Note : The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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7.3. LIMITS AND MEASUREMENT RESULT

| Test Data of Conducted Output Power | | | | | |
|-------------------------------------|--------------------|---------------------|------------------|--------------|--------------|
| Test Mode | Test Channel (MHz) | Average Power (dBm) | Peak Power (dBm) | Limits (dBm) | Pass or Fail |
| 802.11b | 2412 | 13.47 | 16.05 | ≤30 | Pass |
| | 2437 | 13.15 | 15.96 | ≤30 | Pass |
| | 2462 | 13.12 | 15.92 | ≤30 | Pass |
| 802.11g | 2412 | 12.55 | 20.12 | ≤30 | Pass |
| | 2437 | 12.17 | 19.87 | ≤30 | Pass |
| | 2462 | 12.44 | 19.97 | ≤30 | Pass |
| 802.11n20 | 2412 | 12.06 | 19.70 | ≤30 | Pass |
| | 2437 | 11.80 | 19.39 | ≤30 | Pass |
| | 2462 | 11.96 | 19.63 | ≤30 | Pass |

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8. BANDWIDTH

8.1. MEASUREMENT PROCEDURE

6dB bandwidth:

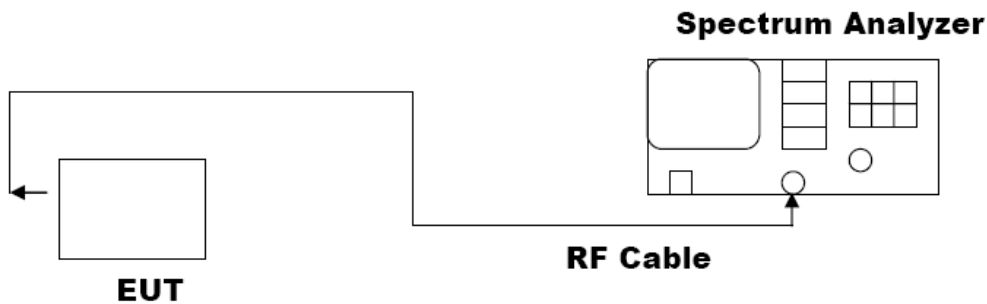
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 kHz, VBW \geq 3 \times RBW.
4. Set SPA Trace 1 Max hold, then View.

Occupied bandwidth:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel
The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



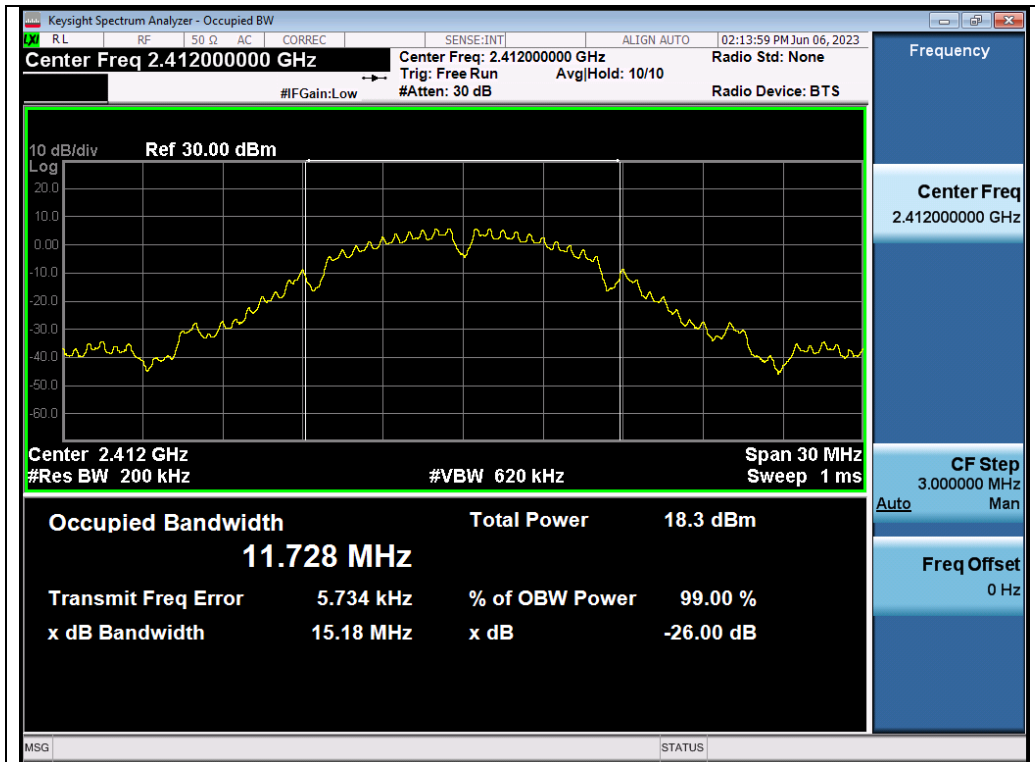
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

8.3. LIMITS AND MEASUREMENT RESULTS

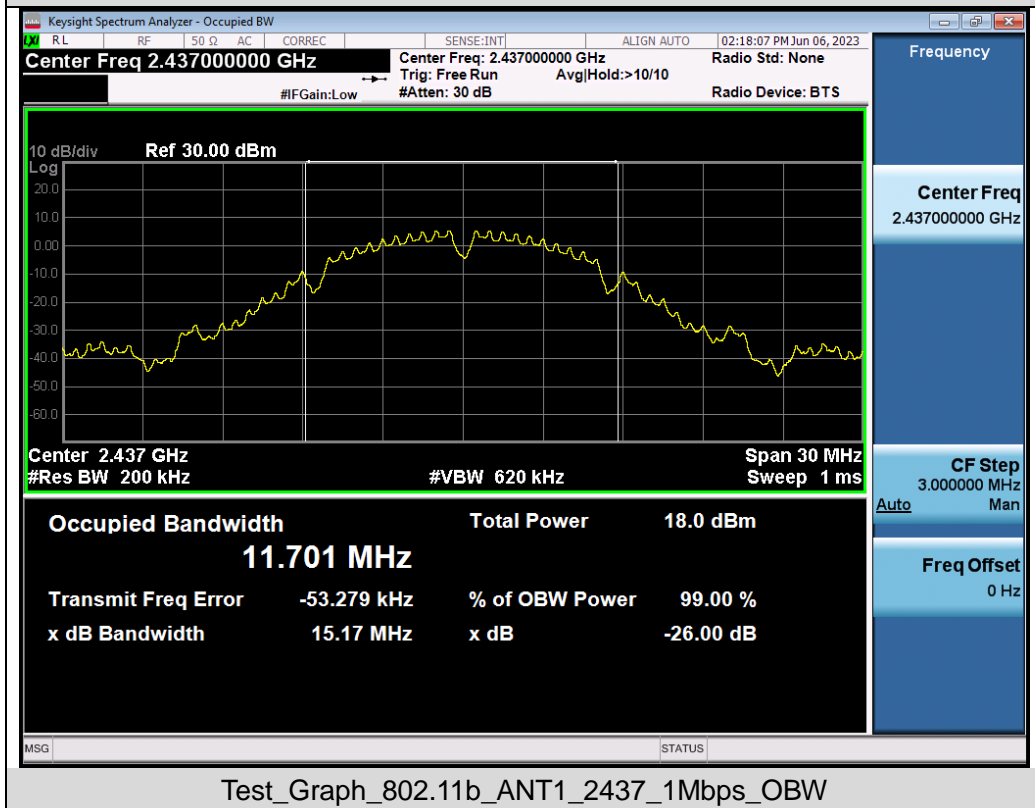
| Test Data of Occupied Bandwidth and DTS Bandwidth | | | | | |
|---|--------------------|------------------------------|----------------------|-------------------|--------------|
| Test Mode | Test Channel (MHz) | 99% Occupied Bandwidth (MHz) | -6dB Bandwidth (MHz) | -6dB Limits (MHz) | Pass or Fail |
| 802.11b | 2412 | 11.728 | 7.083 | ≥0.5 | Pass |
| | 2437 | 11.701 | 7.552 | ≥0.5 | Pass |
| | 2462 | 11.688 | 8.021 | ≥0.5 | Pass |
| 802.11g | 2412 | 16.412 | 15.18 | ≥0.5 | Pass |
| | 2437 | 16.414 | 15.16 | ≥0.5 | Pass |
| | 2462 | 16.320 | 15.17 | ≥0.5 | Pass |
| 802.11n20 | 2412 | 17.584 | 15.18 | ≥0.5 | Pass |
| | 2437 | 17.580 | 15.47 | ≥0.5 | Pass |
| | 2462 | 17.484 | 15.18 | ≥0.5 | Pass |

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Test Graphs of Occupied Bandwidth

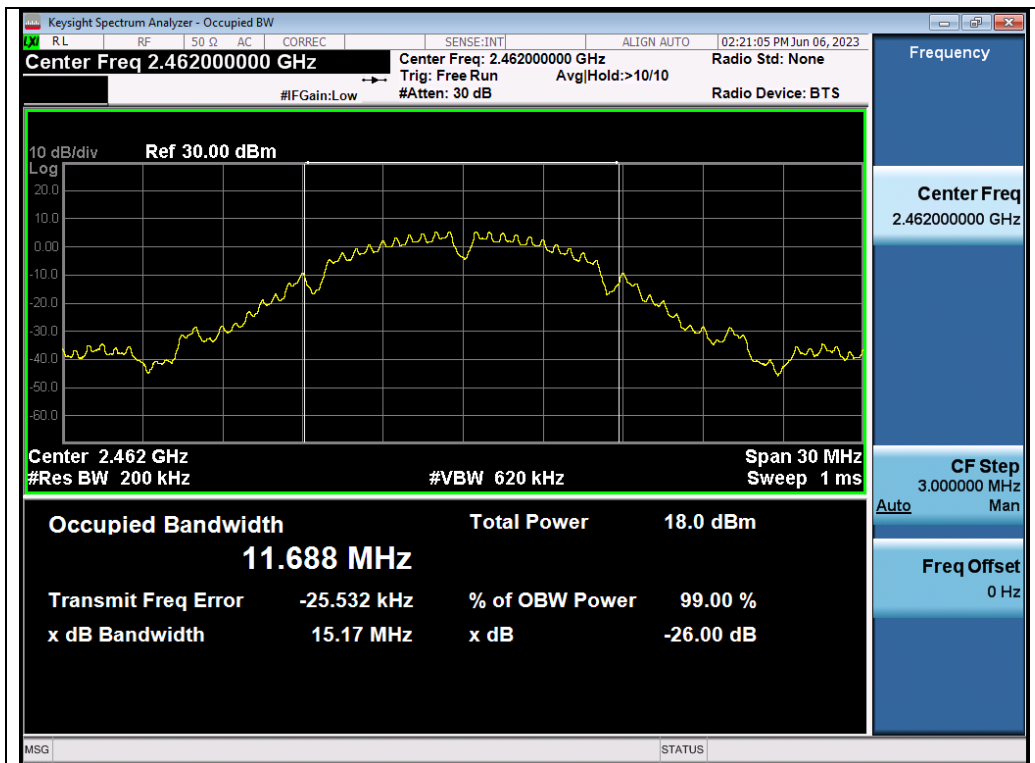


Test_Graph_802.11b_ANT1_2412_1Mbps_OBW

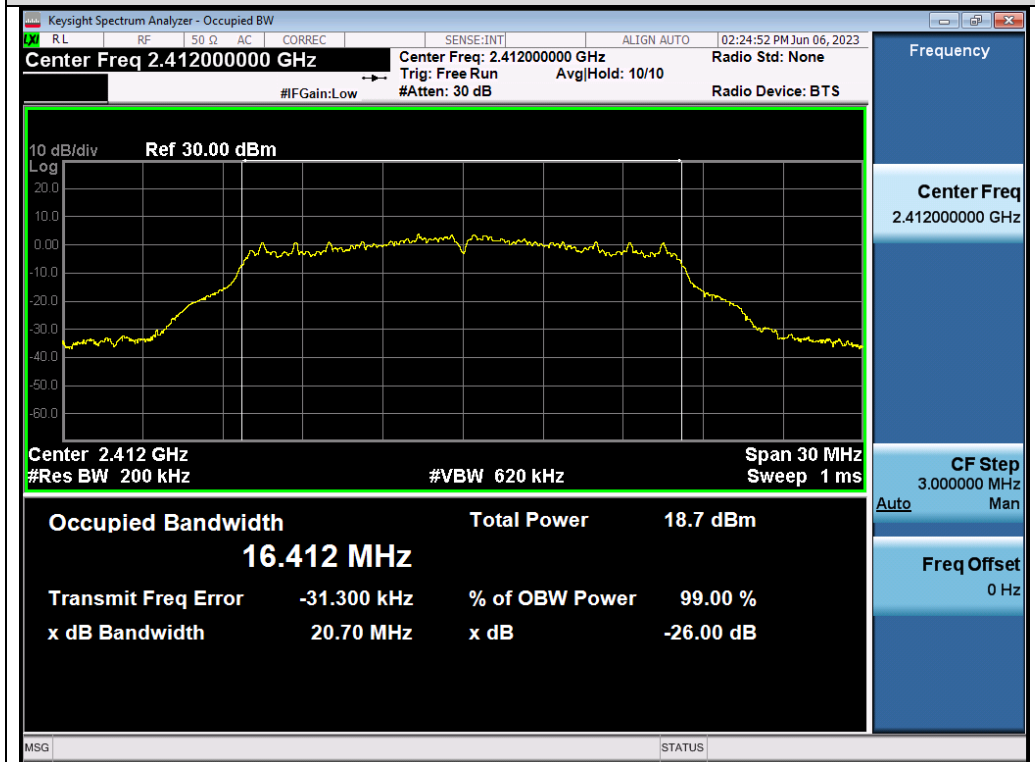


Test_Graph_802.11b_ANT1_2437_1Mbps_OBW

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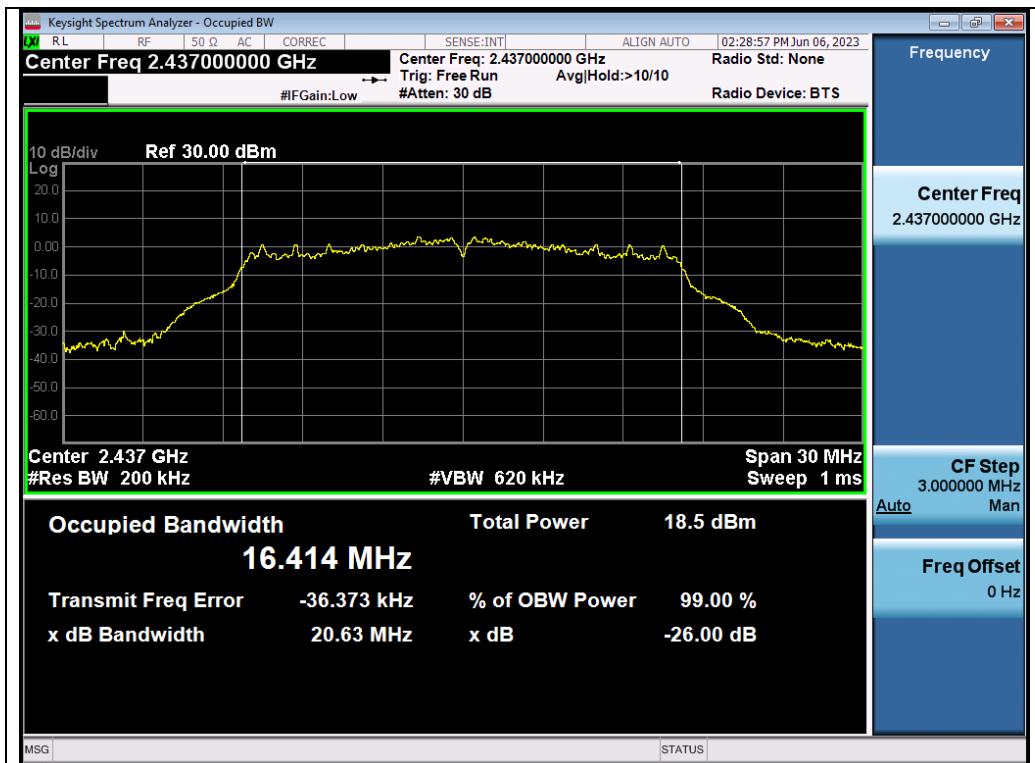


Test_Graph_802.11b_ANT1_2462_1Mbps_OBW

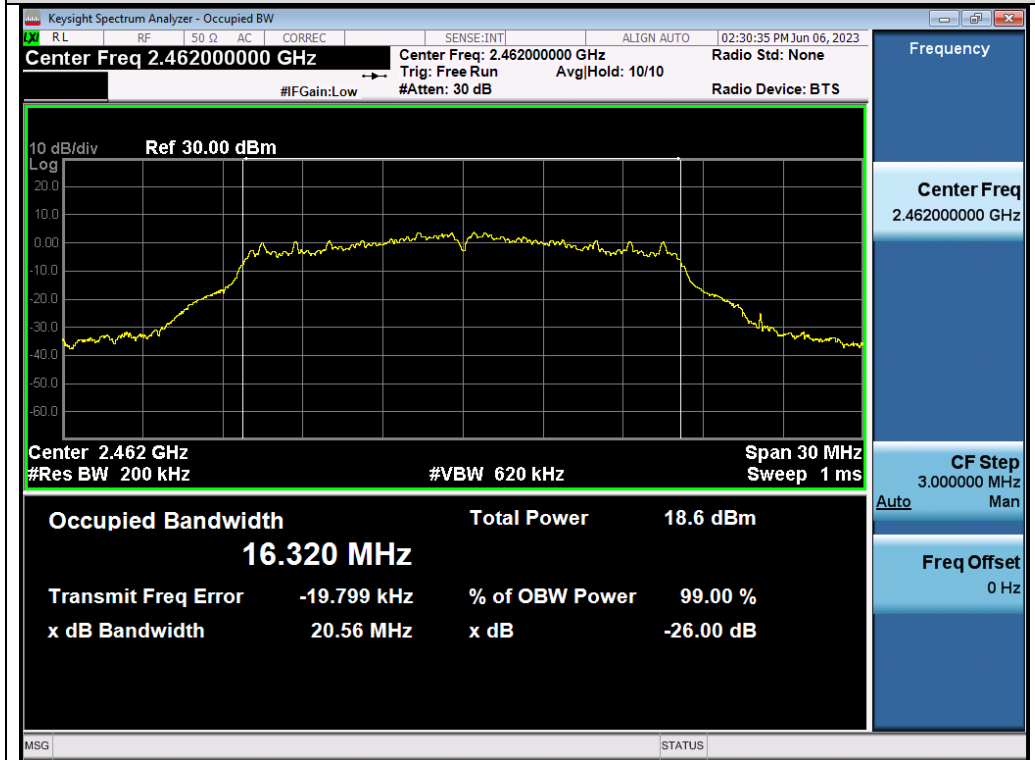


Test_Graph_802.11g_ANT1_2412_6Mbps_OBW

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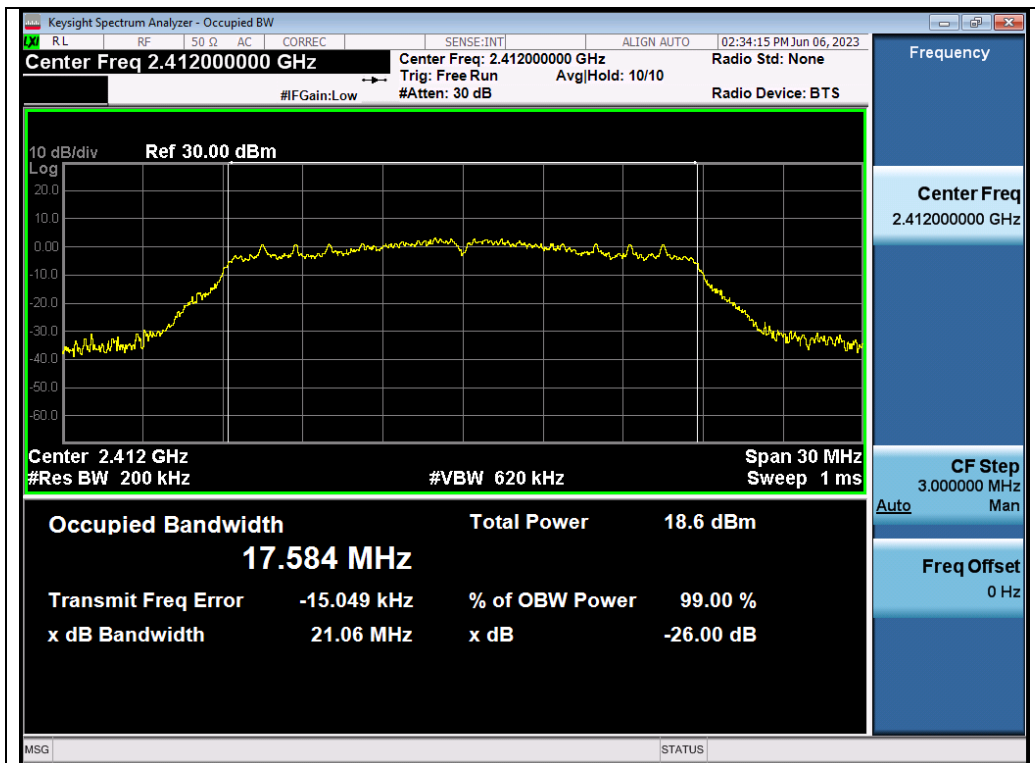


Test_Graph_802.11g_ANT1_2437_6Mbps_OBW

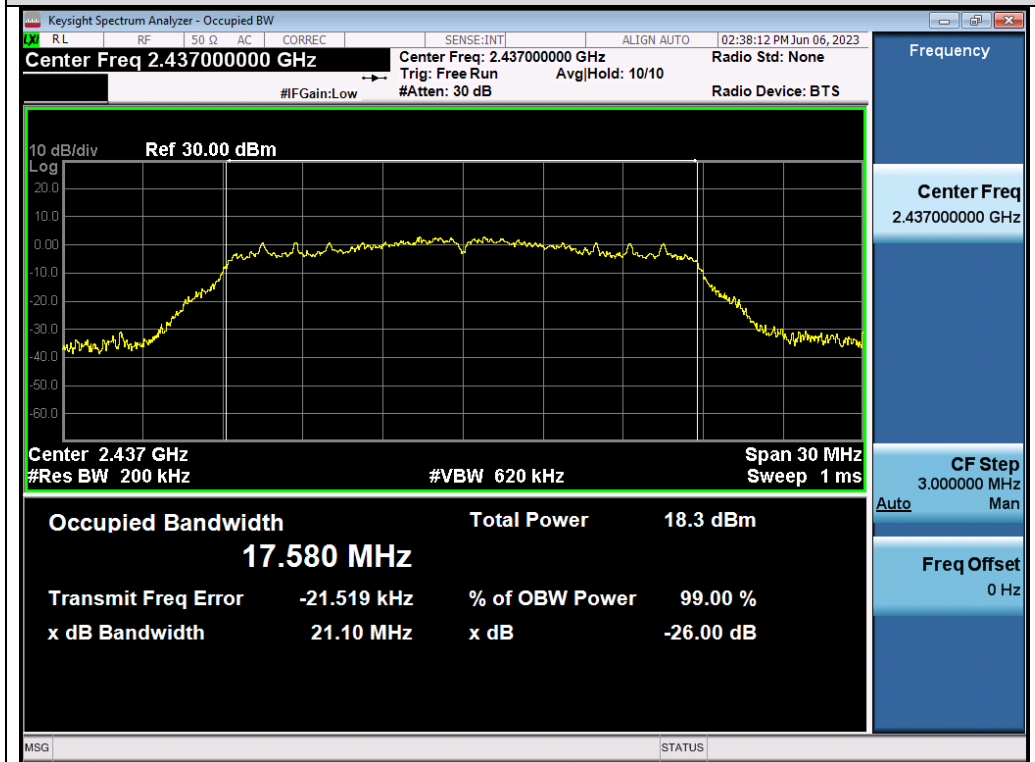


Test_Graph_802.11g_ANT1_2462_6Mbps_OBW

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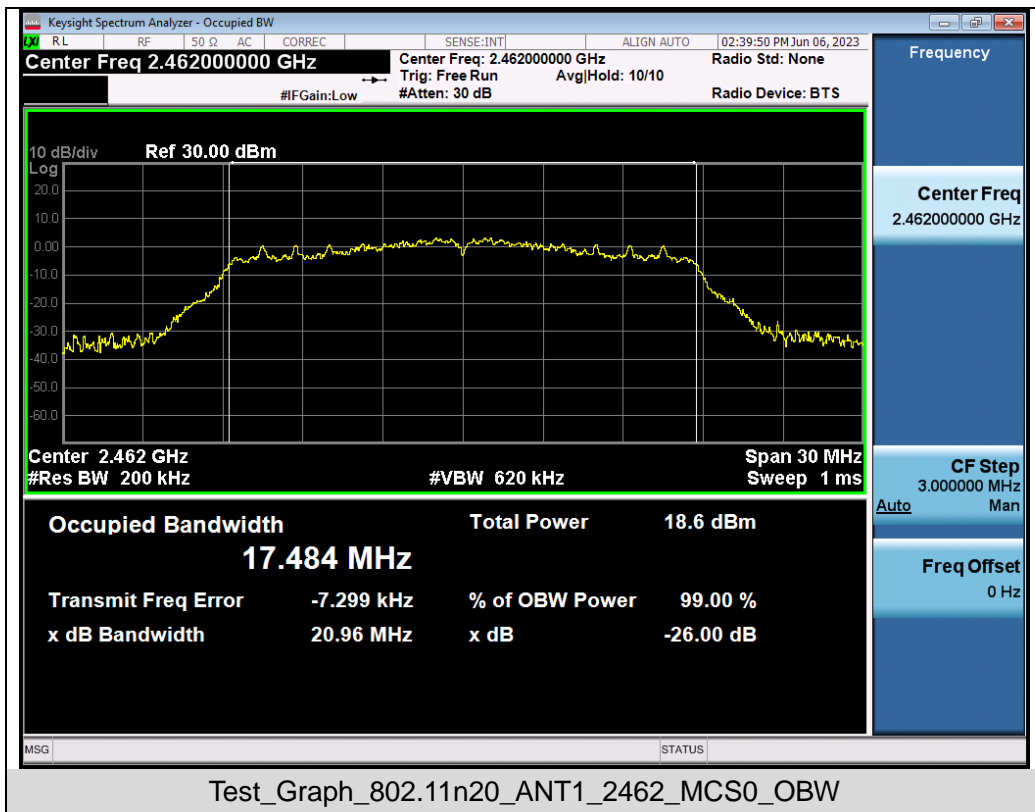


Test_Graph_802.11n20_ANT1_2412_MCS0_OBW



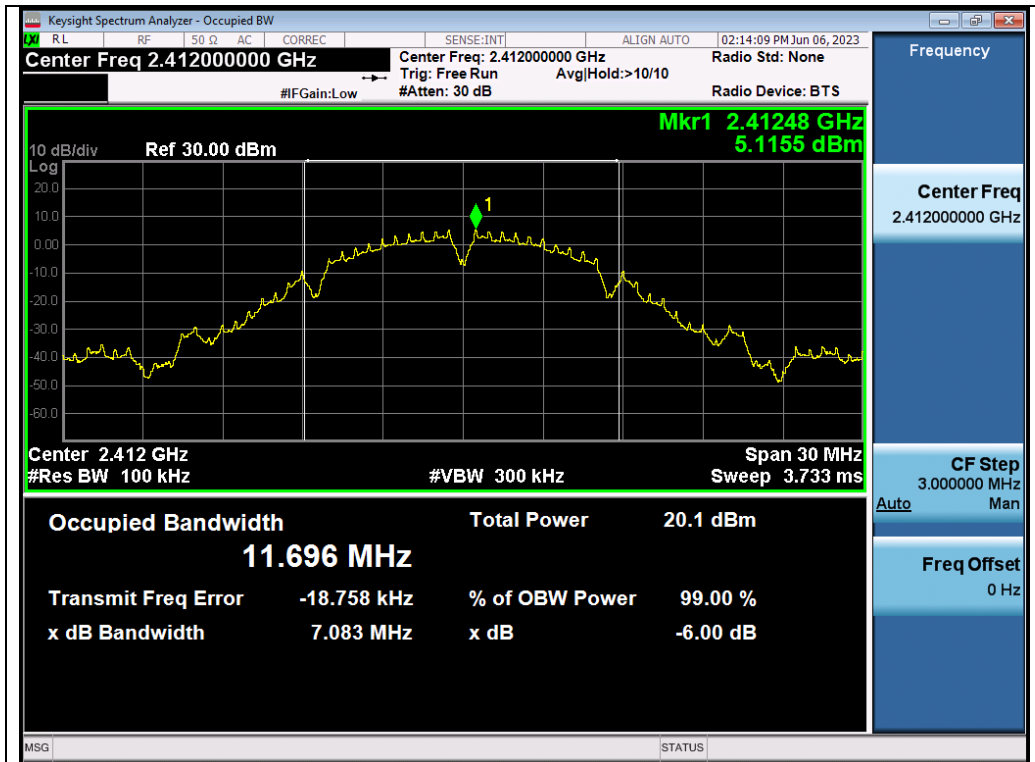
Test_Graph_802.11n20_ANT1_2437_MCS0_OBW

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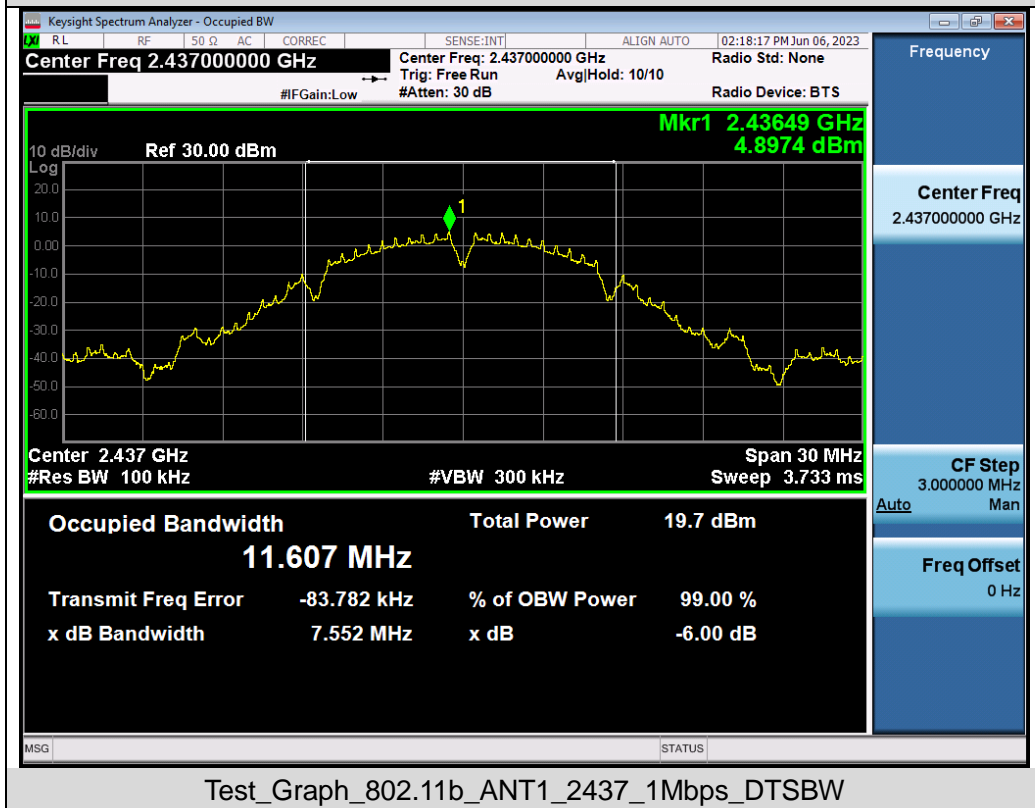


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Test Graphs of DTS Bandwidth

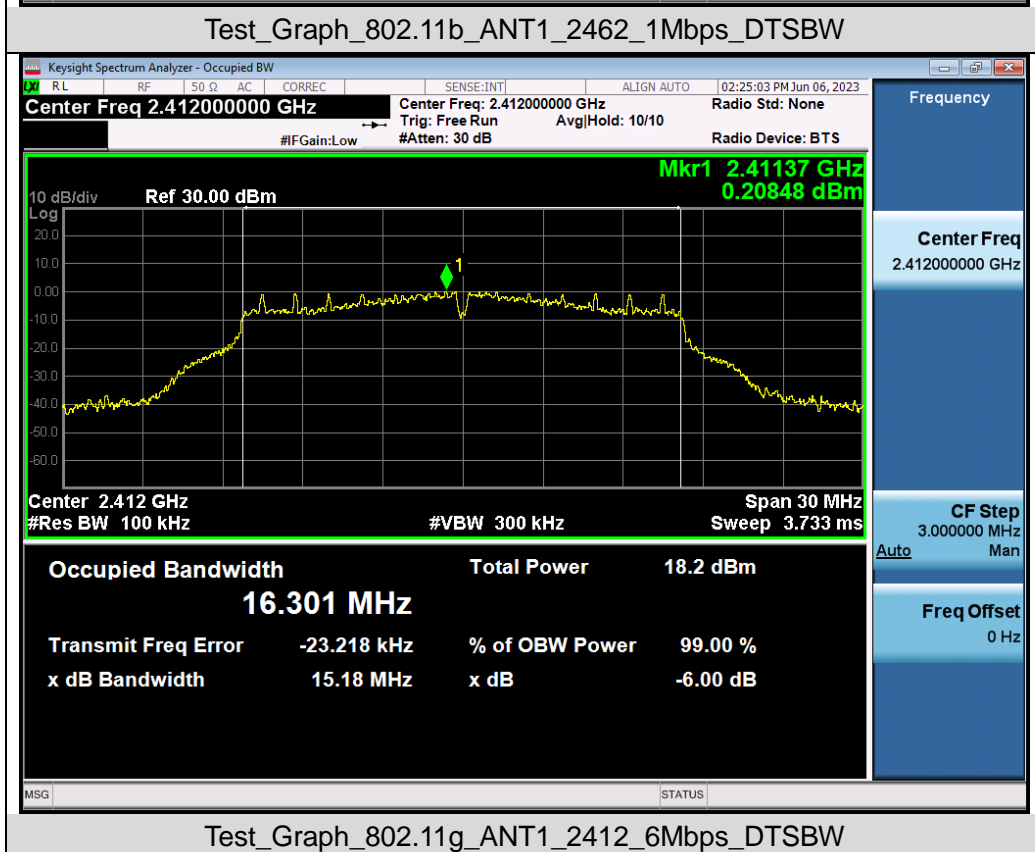


Test_Graph_802.11b_ANT1_2412_1Mbps_DTSSW

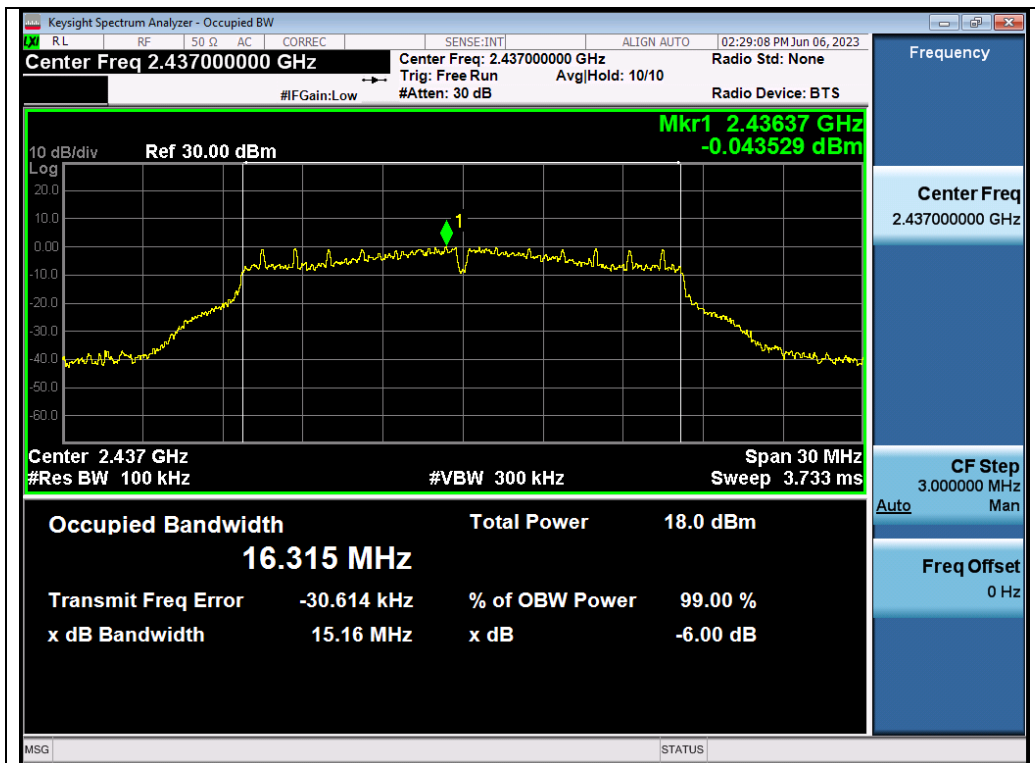


Test_Graph_802.11b_ANT1_2437_1Mbps_DTSSW

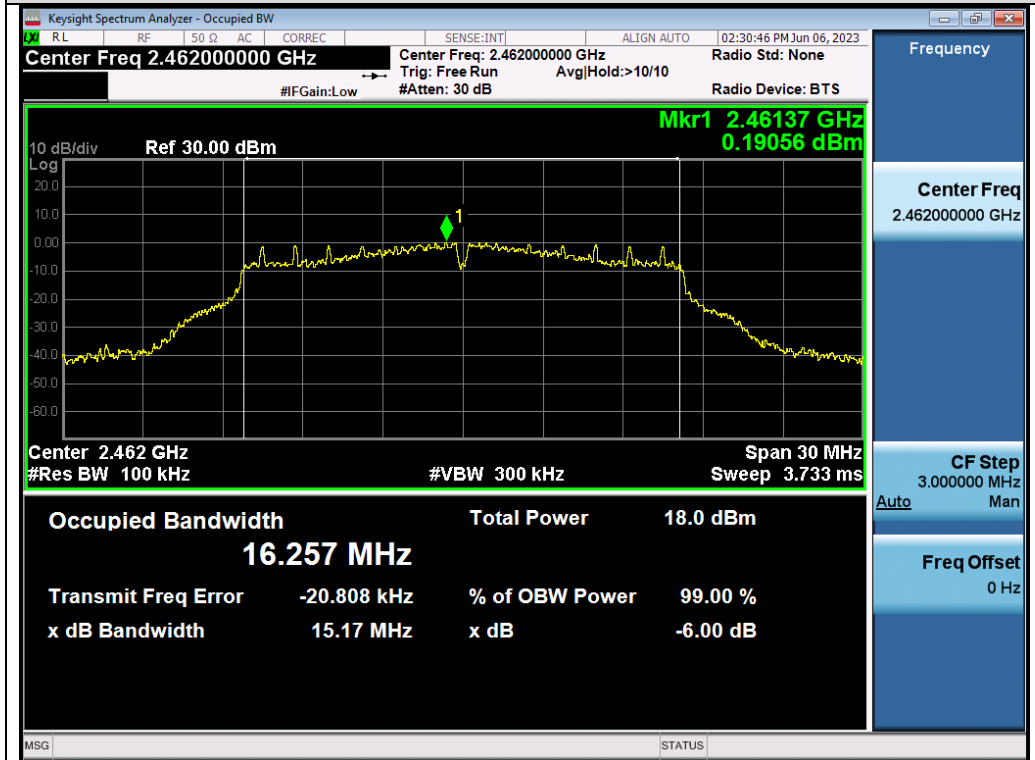
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.



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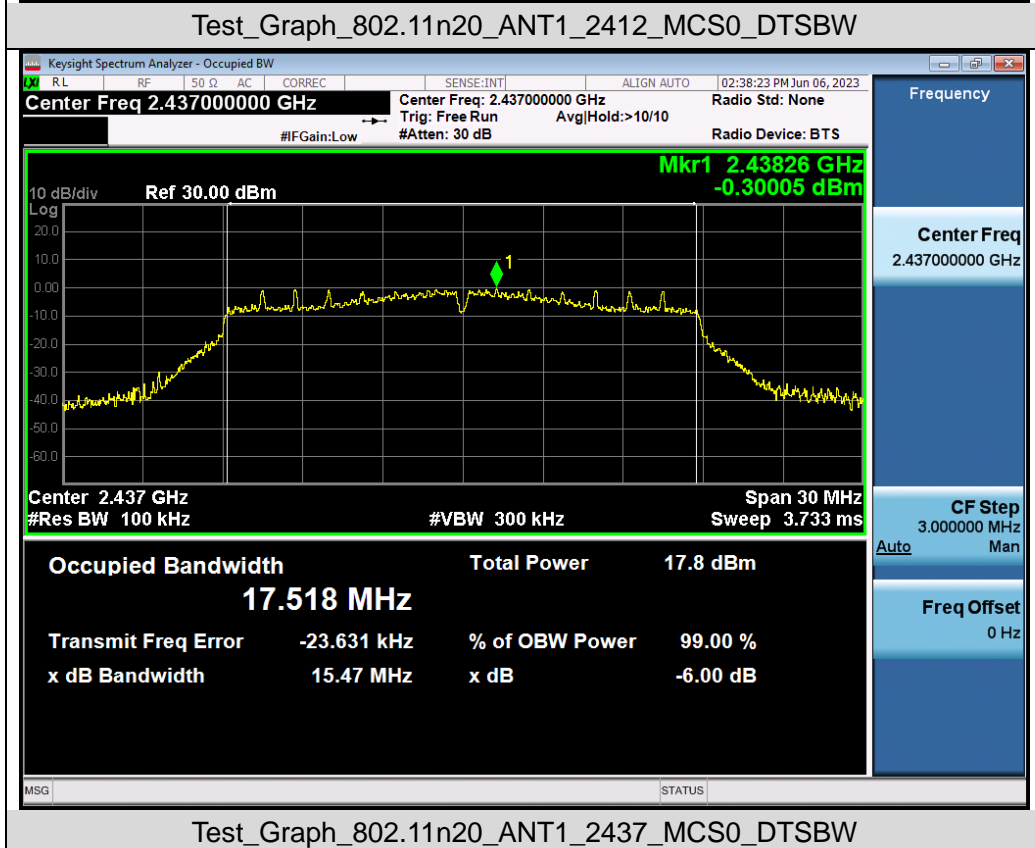
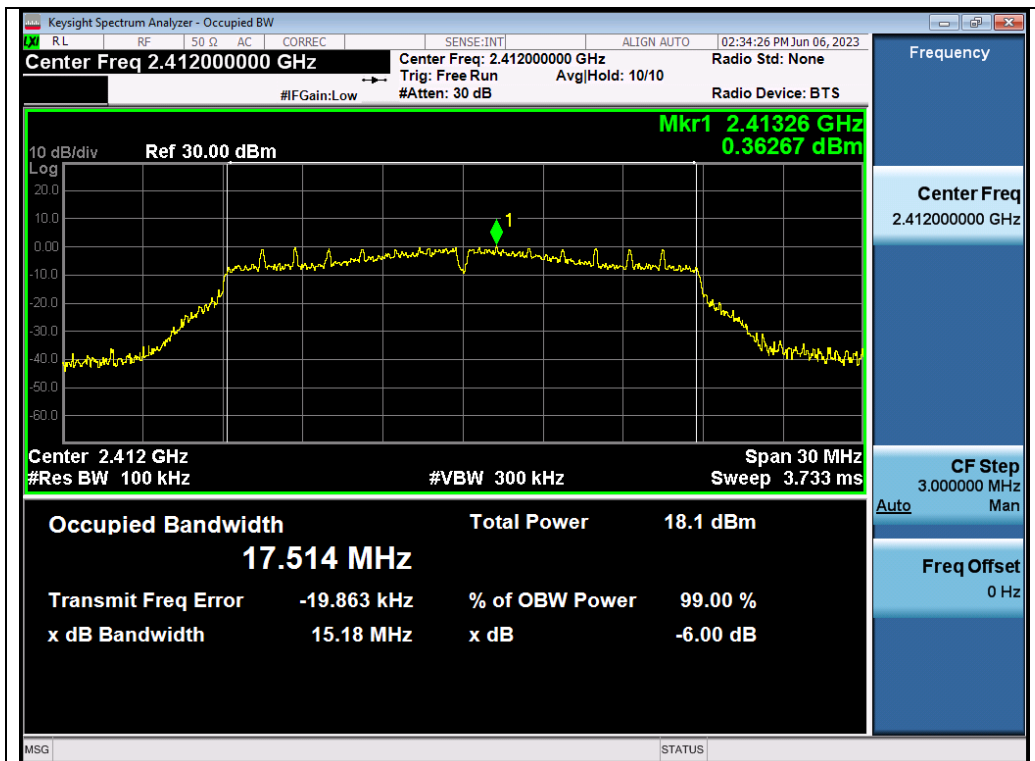


Test_Graph_802.11g_ANT1_2437_6Mbps_DTSBW

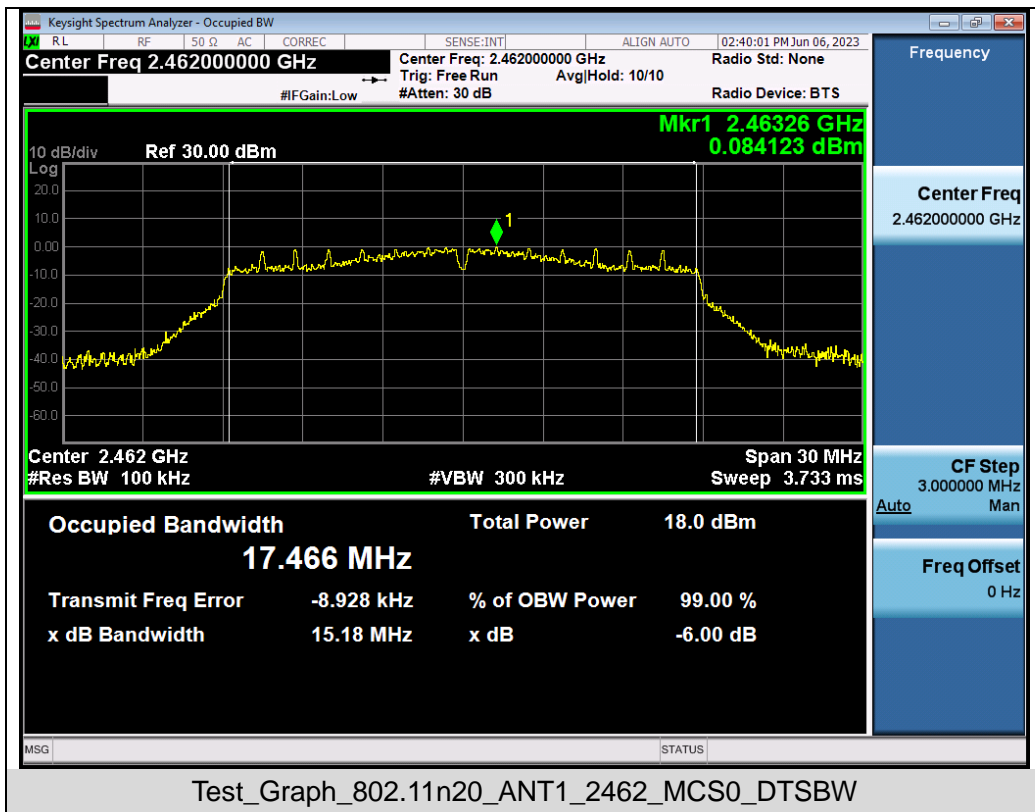


Test_Graph_802.11g_ANT1_2462_6Mbps_DTSBW

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 Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements. Owing to satisfy the requirements of the number of measurement points, we set the RBW=1MHz, VBW > RBW, scan up through 10th harmonic, and consider the tested results as the worst case, if the tested results conform to the requirement, we can deem that the real tested results(set the RBW=100KHz, VBW > RBW) are conform to the requirement.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2.

9.3. MEASUREMENT EQUIPMENT USED JN

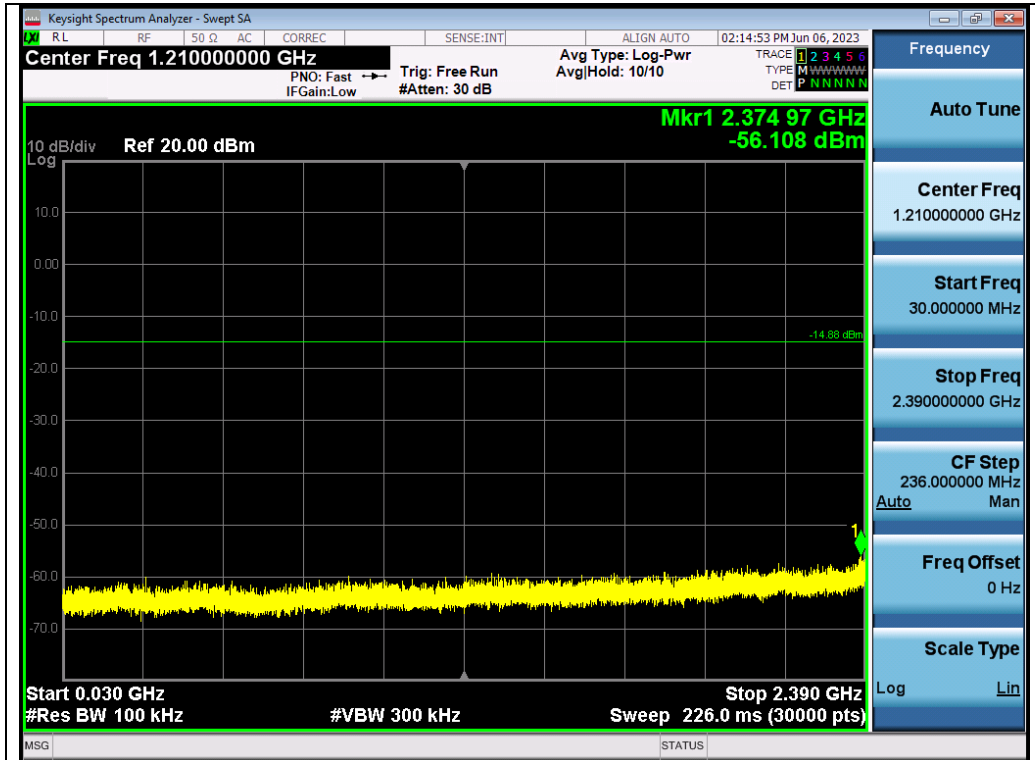
The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

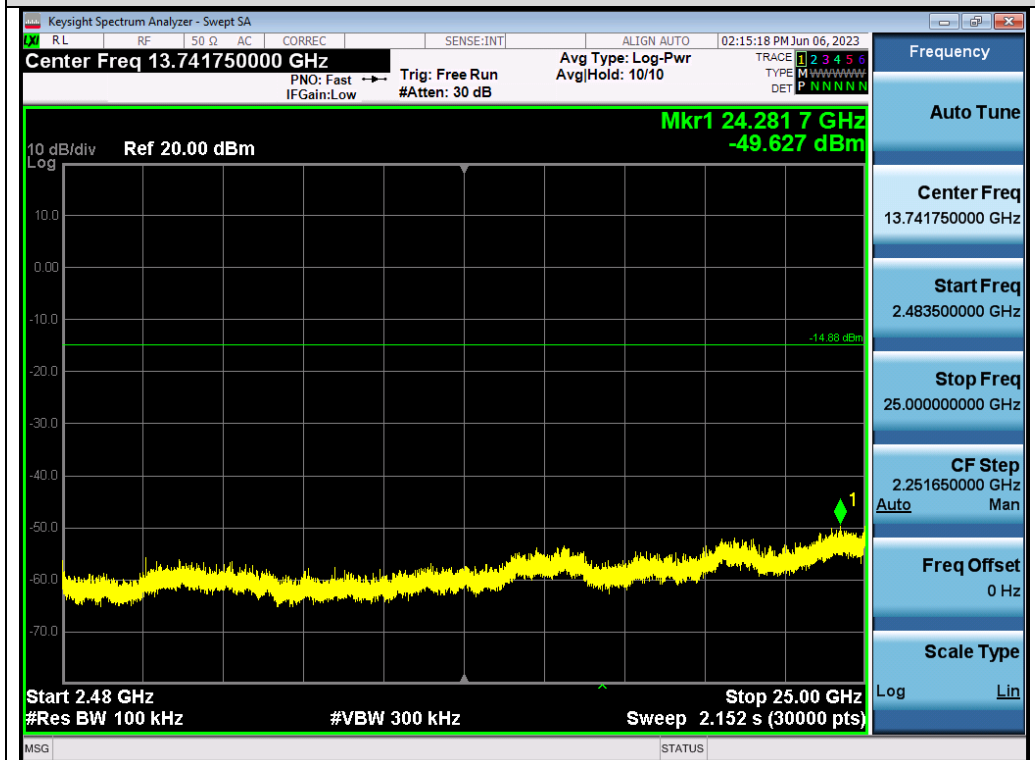
| LIMITS AND MEASUREMENT RESULT | | |
|---|--|----------|
| Applicable Limits | Measurement Result | |
| | Test Data | Criteria |
| In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiation 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)) | At least -20dBc than the limit Specified on the BOTTOM Channel | PASS |
| | At least -20dBc than the limit Specified on the TOP Channel | PASS |

Note: The limits reference level is according to the test plot of -6dB bandwidth.

Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands

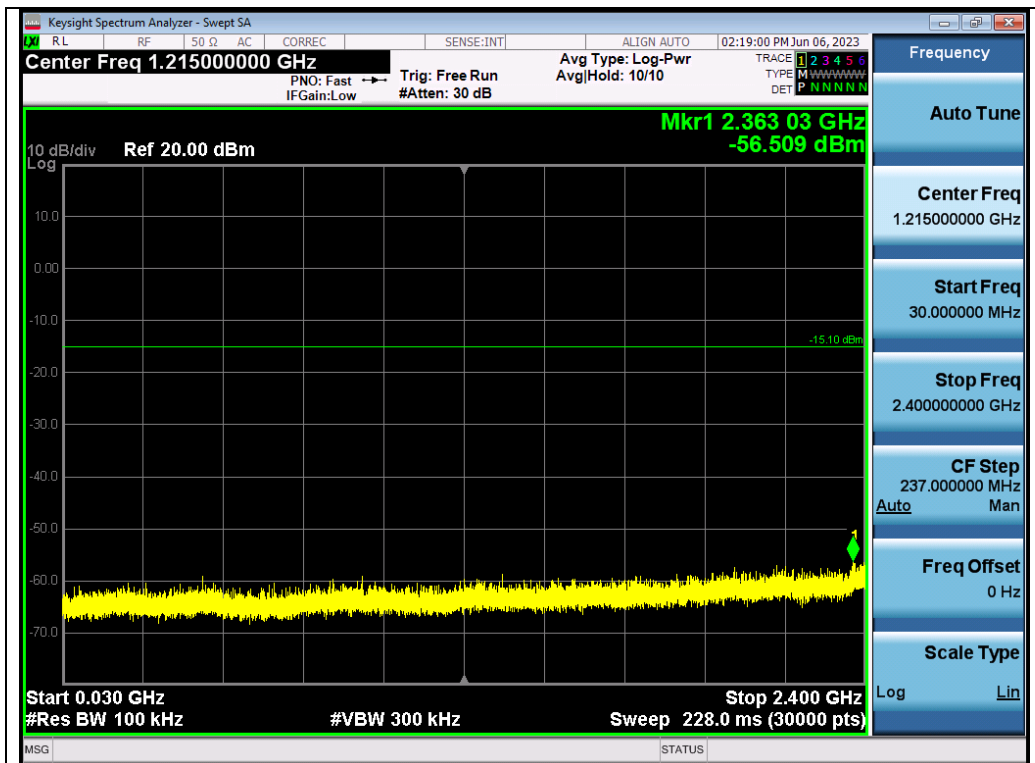


Test_Graph_802.11b_ANT1_2412_1Mbps_Lower Band Emissions



Test_Graph_802.11b_ANT1_2412_1Mbps_Higher Band Emissions

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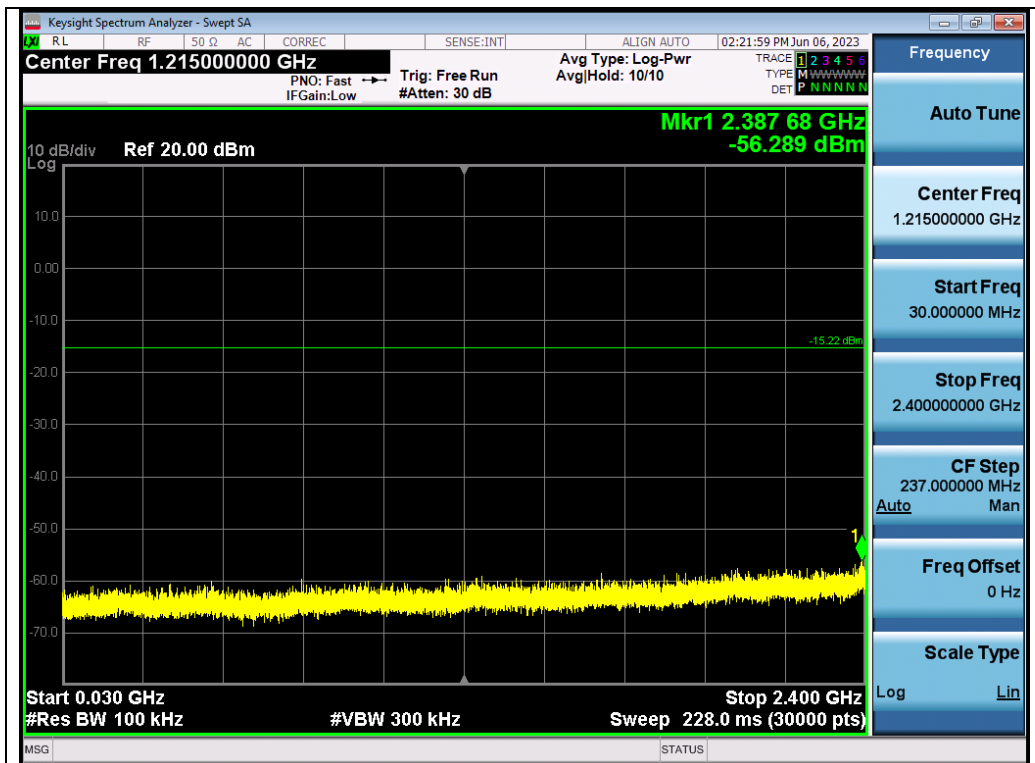


Test_Graph_802.11b_ANT1_2437_1Mbps_Lower Band Emissions

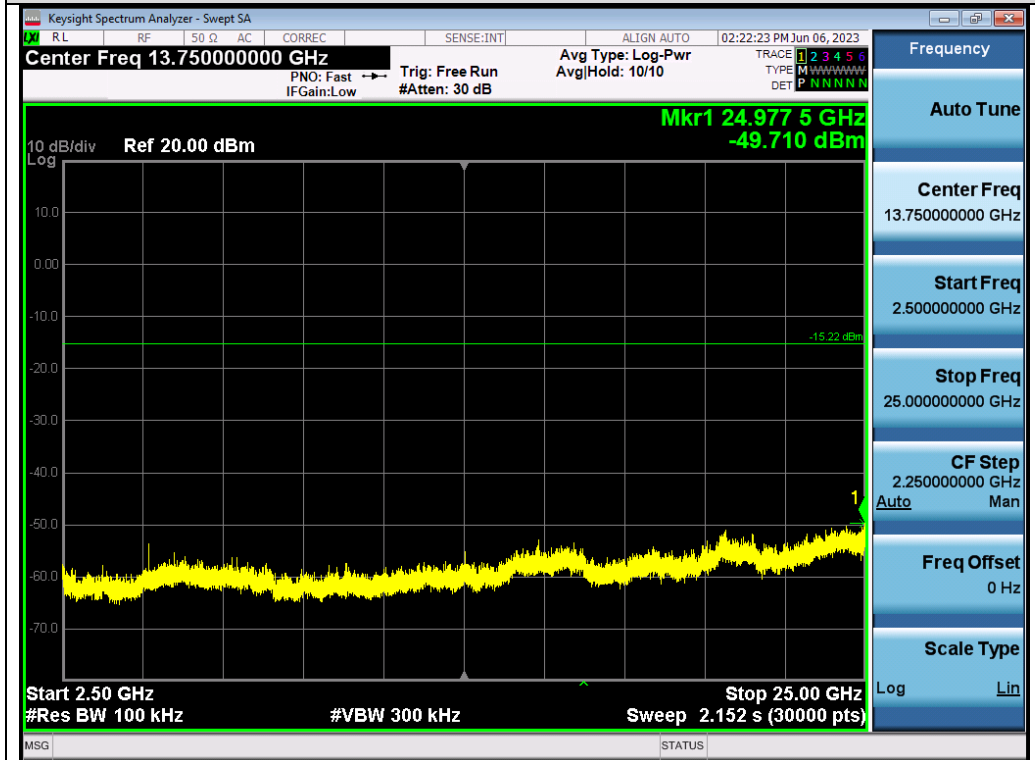


Test_Graph_802.11b_ANT1_2437_1Mbps_Higher Band Emissions

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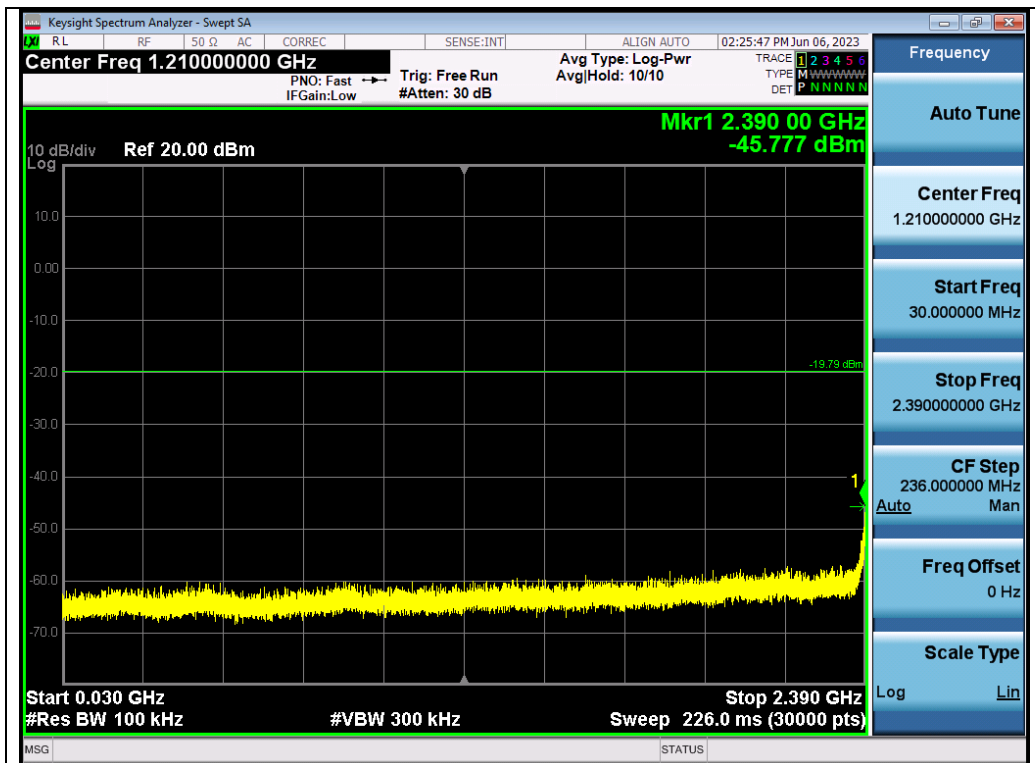


Test_Graph_802.11b_ANT1_2462_1Mbps_Lower Band Emissions

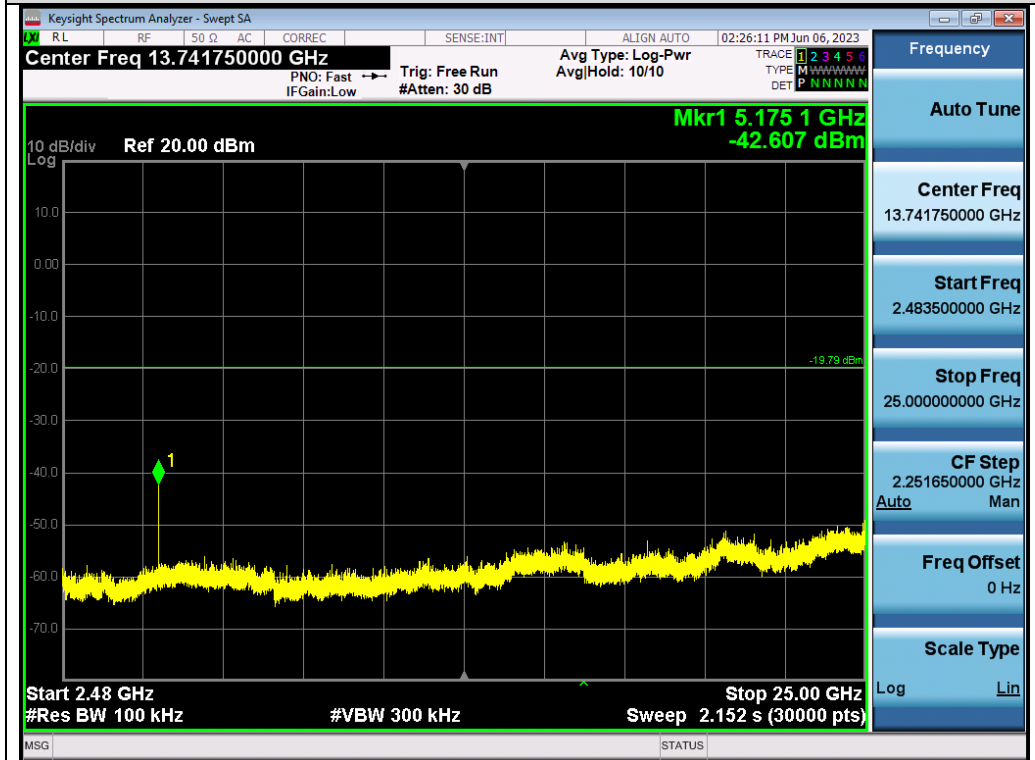


Test_Graph_802.11b_ANT1_2462_1Mbps_Higher Band Emissions

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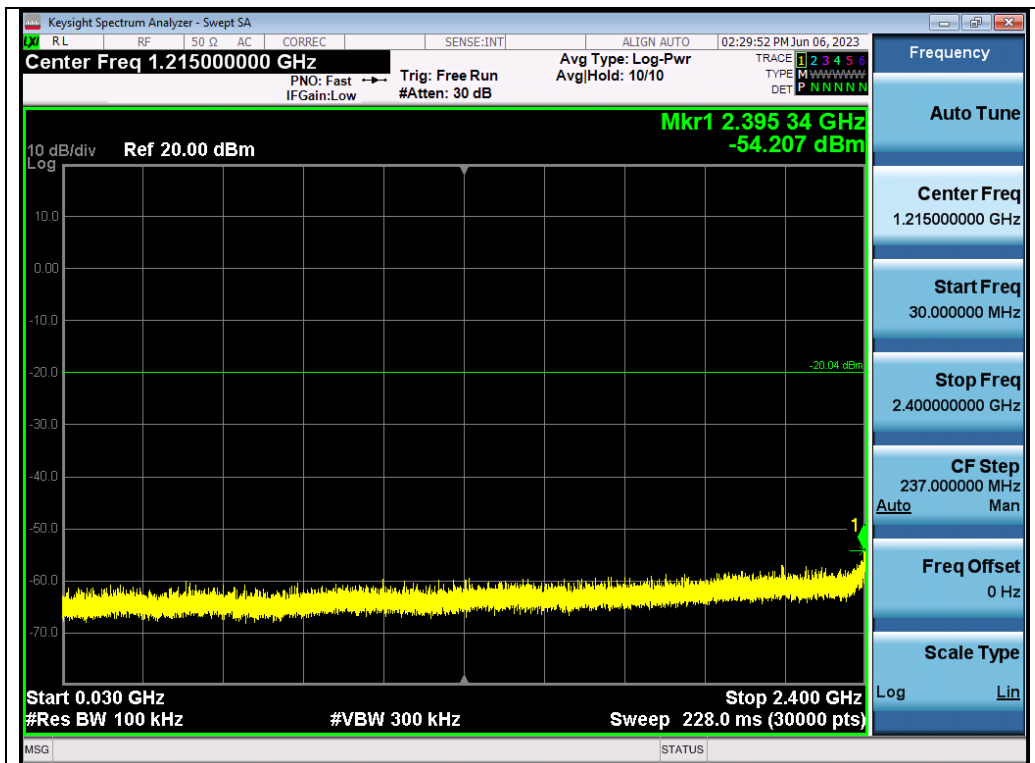


Test_Graph_802.11g_ANT1_2412_6Mbps_Lower Band Emissions

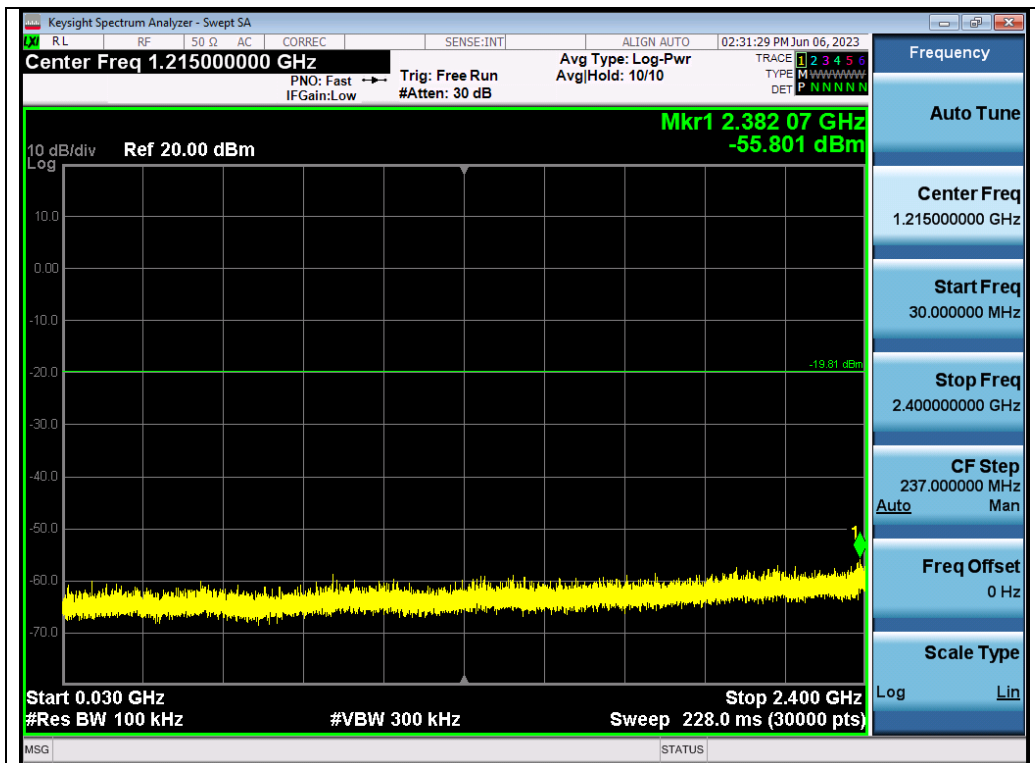


Test_Graph_802.11g_ANT1_2412_6Mbps_Higher Band Emissions

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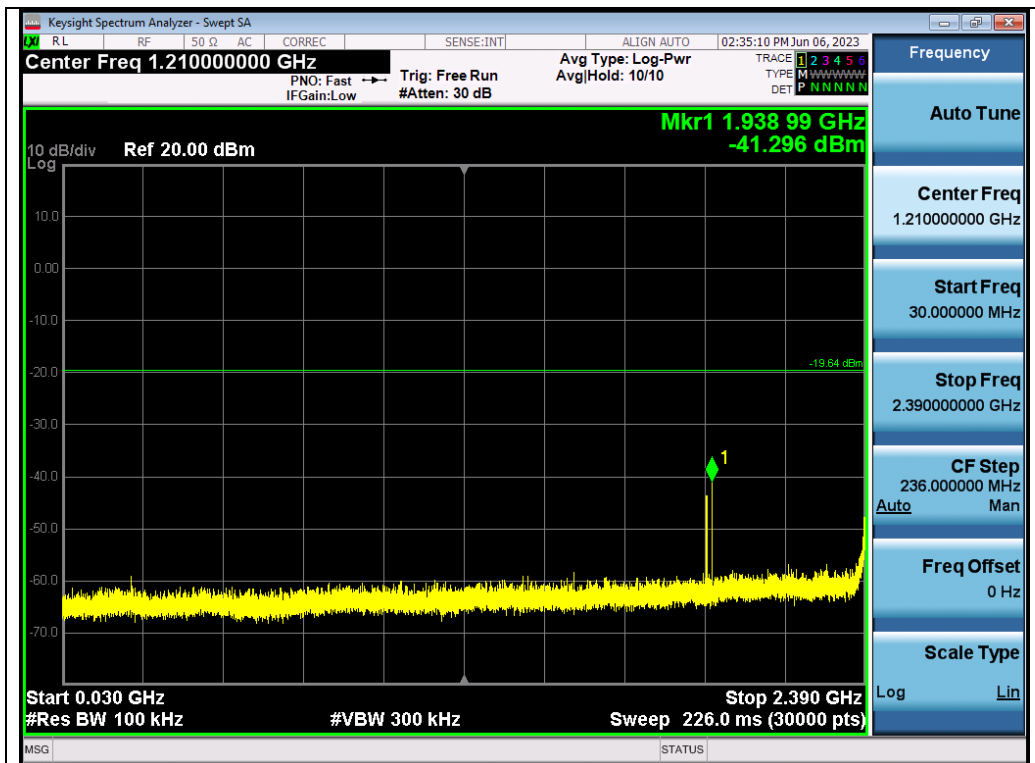


Test_Graph_802.11g_ANT1_2462_6Mbps_Lower Band Emissions

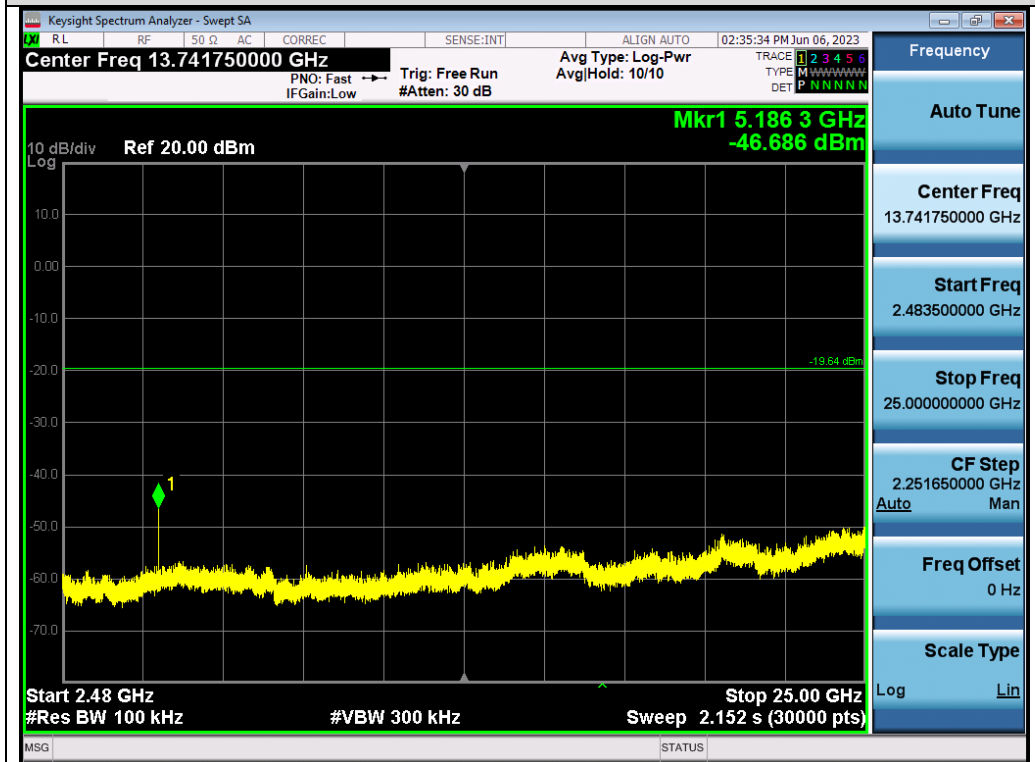


Test_Graph_802.11g_ANT1_2462_6Mbps_Higher Band Emissions

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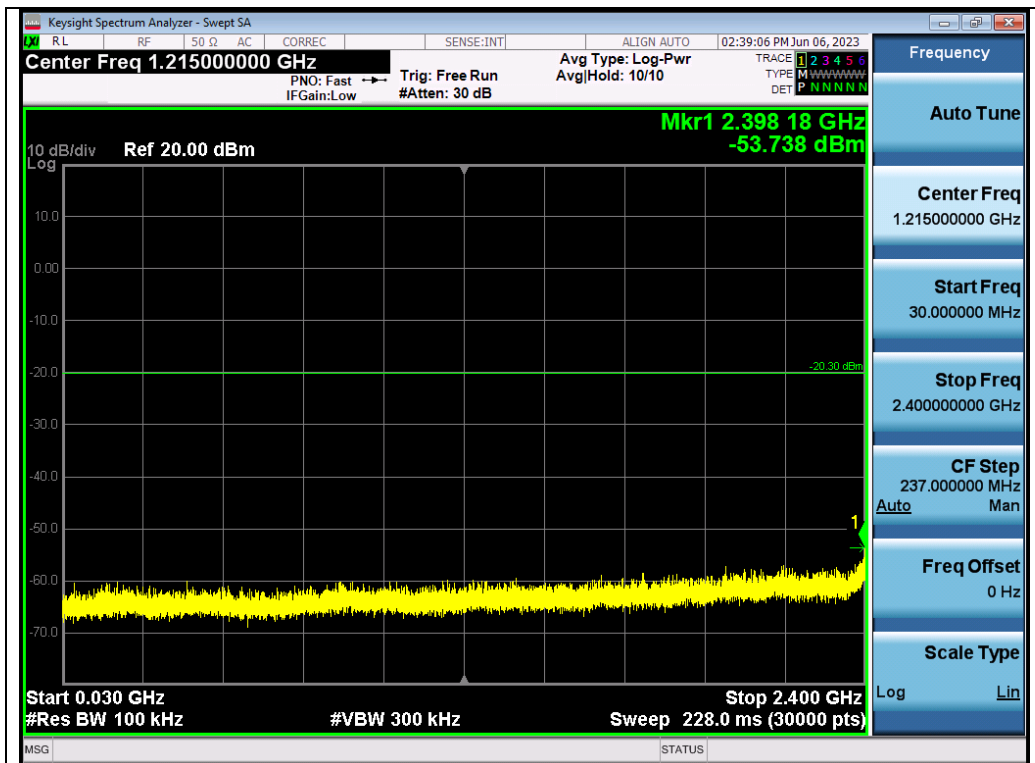


Test_Graph_802.11n20_ANT1_2412_MCS0_Lower Band Emissions



Test_Graph_802.11n20_ANT1_2412_MCS0_Higher Band Emissions

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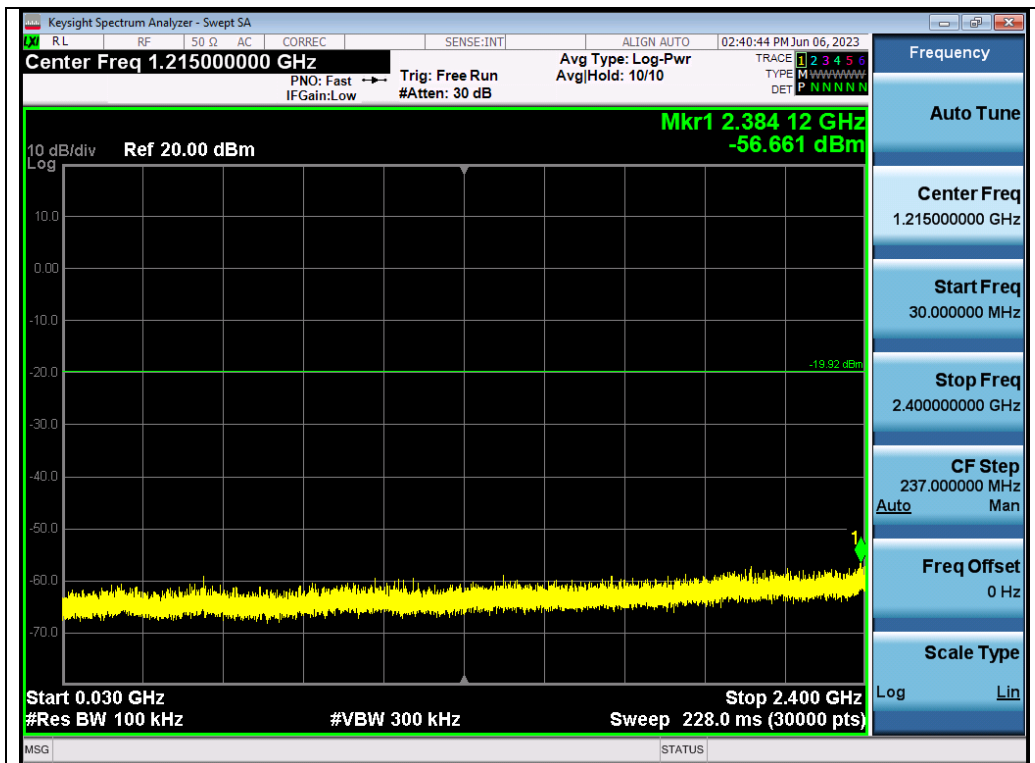


Test_Graph_802.11n20_ANT1_2437_MCS0_Lower Band Emissions

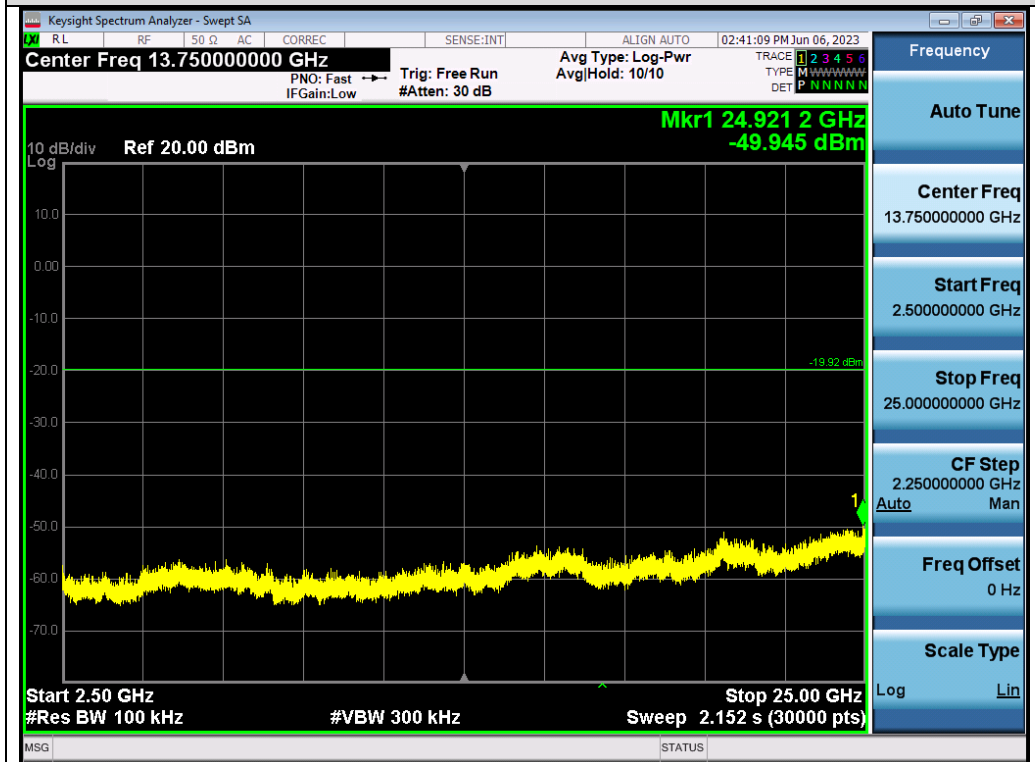


Test_Graph_802.11n20_ANT1_2437_MCS0_Higher Band Emissions

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Test_Graph_802.11n20_ANT1_2462_MCS0_Lower Band Emissions



Test_Graph_802.11n20_ANT1_2462_MCS0_Higher Band Emissions

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

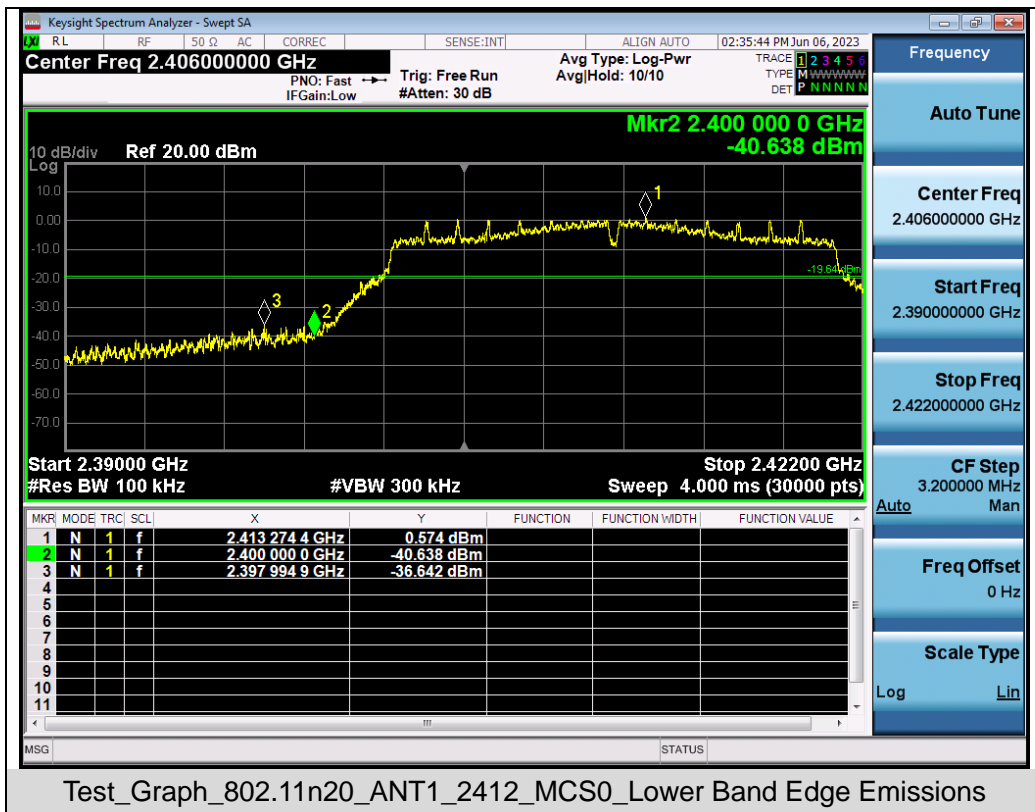


Test_Graph_802.11b_ANT1_2412_1Mbps_Lower Band Edge Emissions



Test_Graph_802.11g_ANT1_2412_6Mbps_Lower Band Edge Emissions

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Test_Graph_802.11n20_ANT1_2412_MCS0_Lower Band Edge Emissions

Note: Emissions from 2483.5-2500MHz which fall in the restricted bands had been considered with the radiated emission limits specified.

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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1 MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the ANSI C63.10 (2013) item 11.10 was used in this testing.

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer to Section 8.2.

10.3 MEASUREMENT EQUIPMENT USED

Refer to Section 6.

10.4 LIMITS AND MEASUREMENT RESULT

| Test Data of Conducted Output Power Spectral Density | | | | | |
|--|--------------------|---------------------------|--------------------------|------------------|--------------|
| Test Mode | Test Channel (MHz) | Power density (dBm/20kHz) | Power density (dBm/3kHz) | Limit (dBm/3kHz) | Pass or Fail |
| 802.11b | 2412 | 1.883 | -6.356 | ≤8 | Pass |
| | 2437 | 0.791 | -7.448 | ≤8 | Pass |
| | 2462 | 0.197 | -8.042 | ≤8 | Pass |
| 802.11g | 2412 | -3.109 | -11.348 | ≤8 | Pass |
| | 2437 | -3.514 | -11.753 | ≤8 | Pass |
| | 2462 | -3.017 | -11.256 | ≤8 | Pass |
| 802.11n20 | 2412 | -2.669 | -10.908 | ≤8 | Pass |
| | 2437 | -3.638 | -11.877 | ≤8 | Pass |
| | 2462 | -2.197 | -10.436 | ≤8 | Pass |

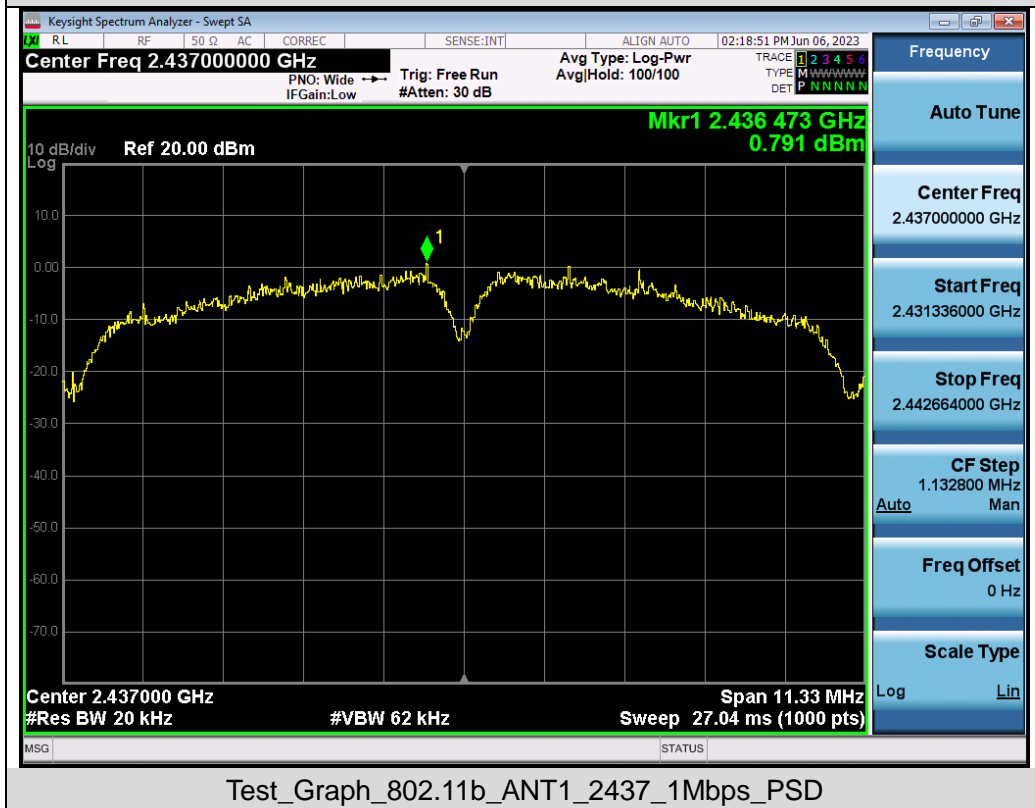
Note: Power density(dBm/3kHz) = Power density(dBm/20kHz) – 10*log(20/3).

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Test Graphs of Conducted Output Power Spectral Density



Test_Graph_802.11b_ANT1_2412_1Mbps_PSD

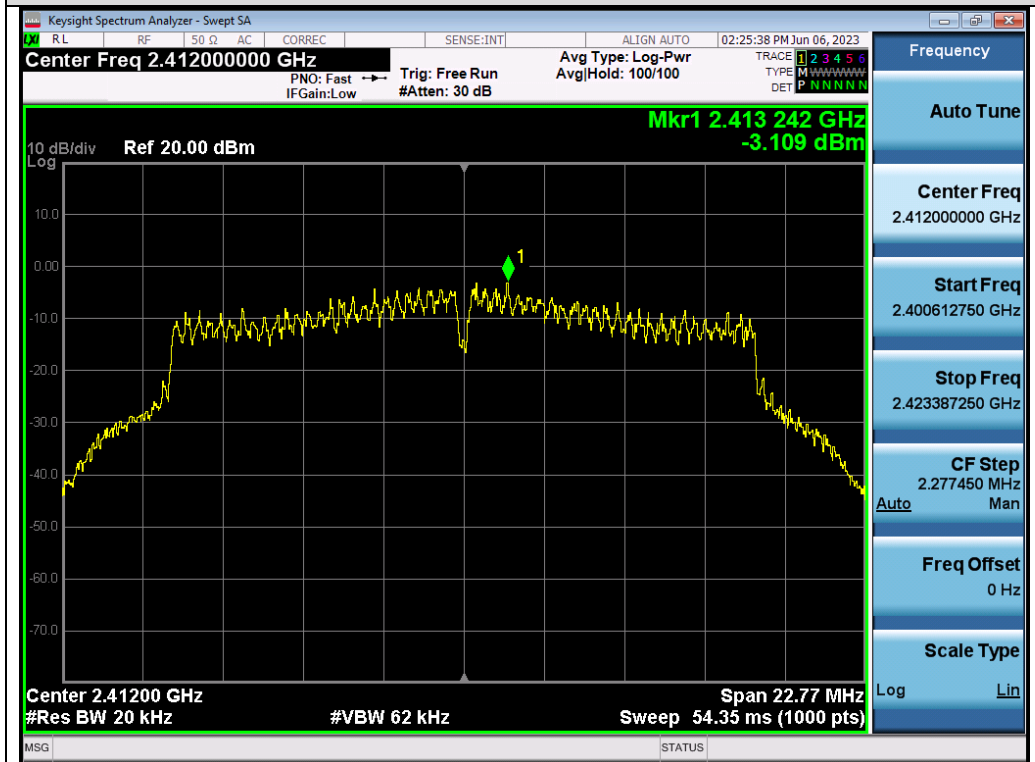


Test_Graph_802.11b_ANT1_2437_1Mbps_PSD

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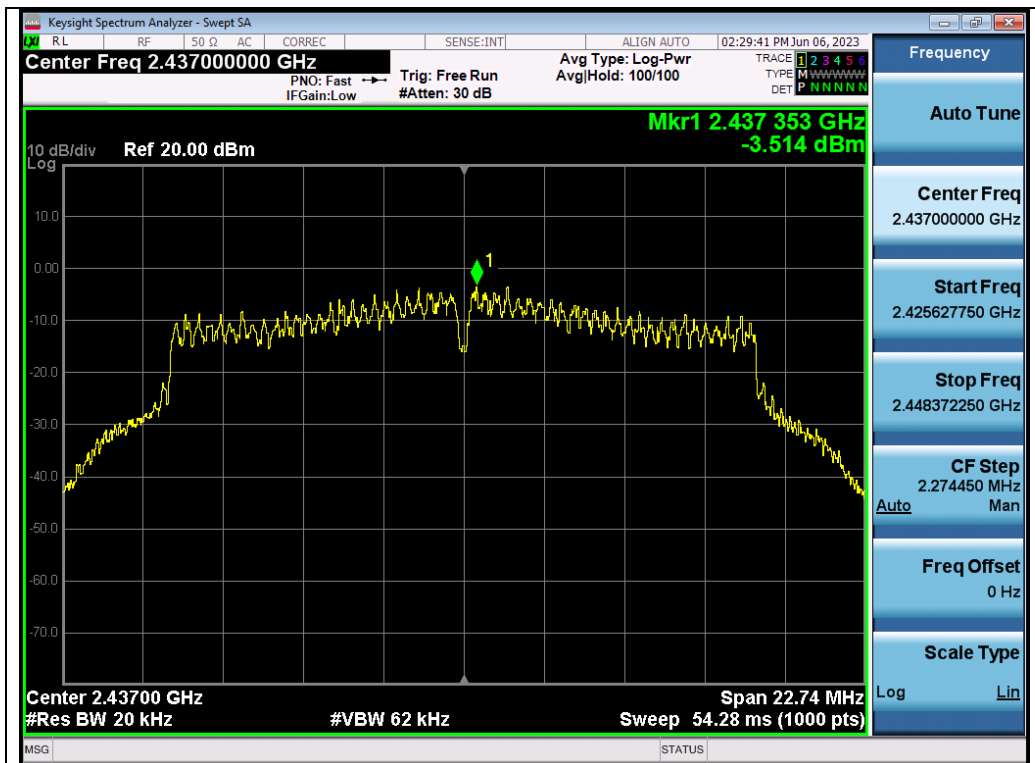


Test_Graph_802.11b_ANT1_2462_1Mbps_PSD

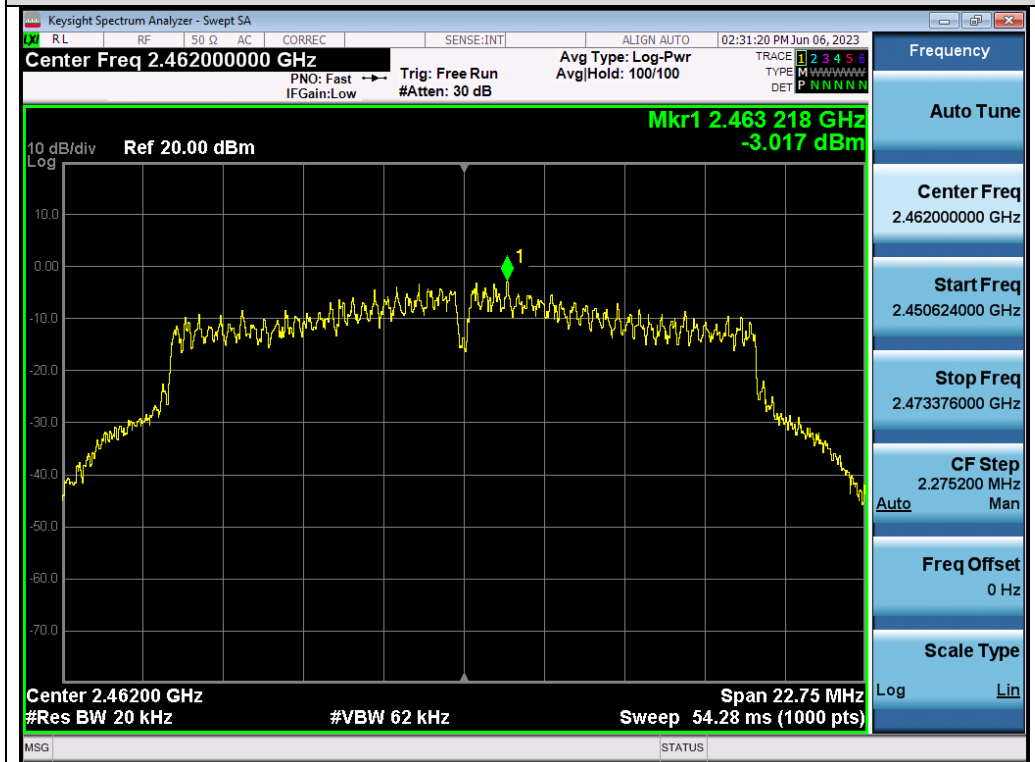


Test_Graph_802.11g_ANT1_2412_6Mbps_PSD

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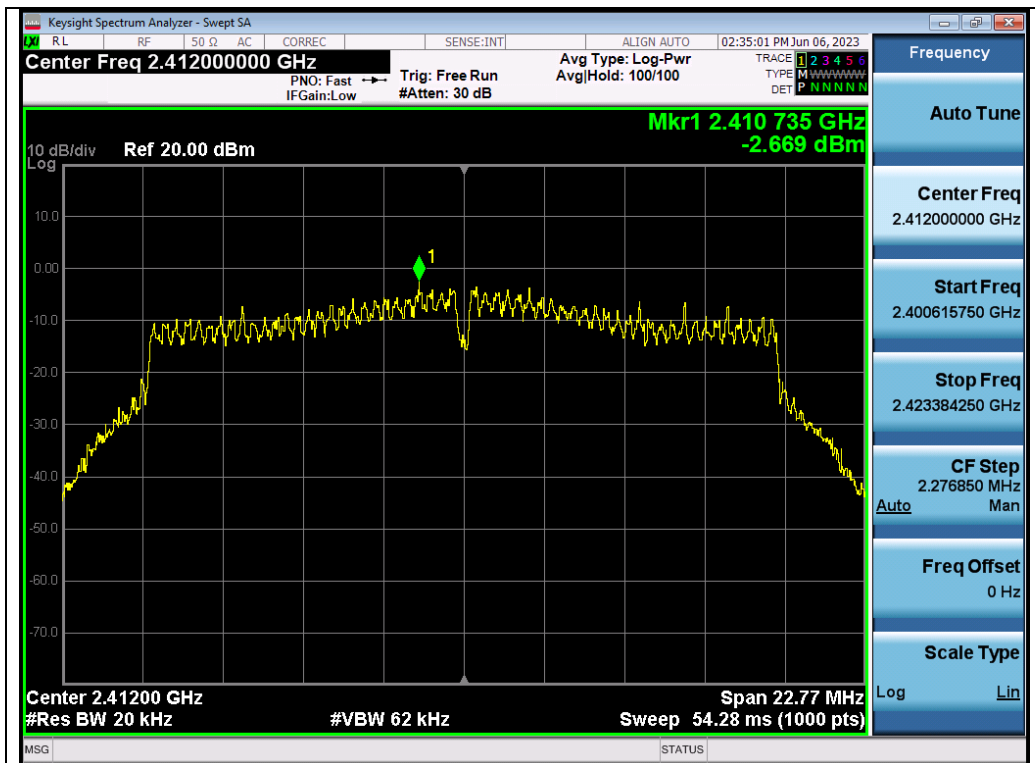


Test_Graph_802.11g_ANT1_2437_6Mbps_PSD

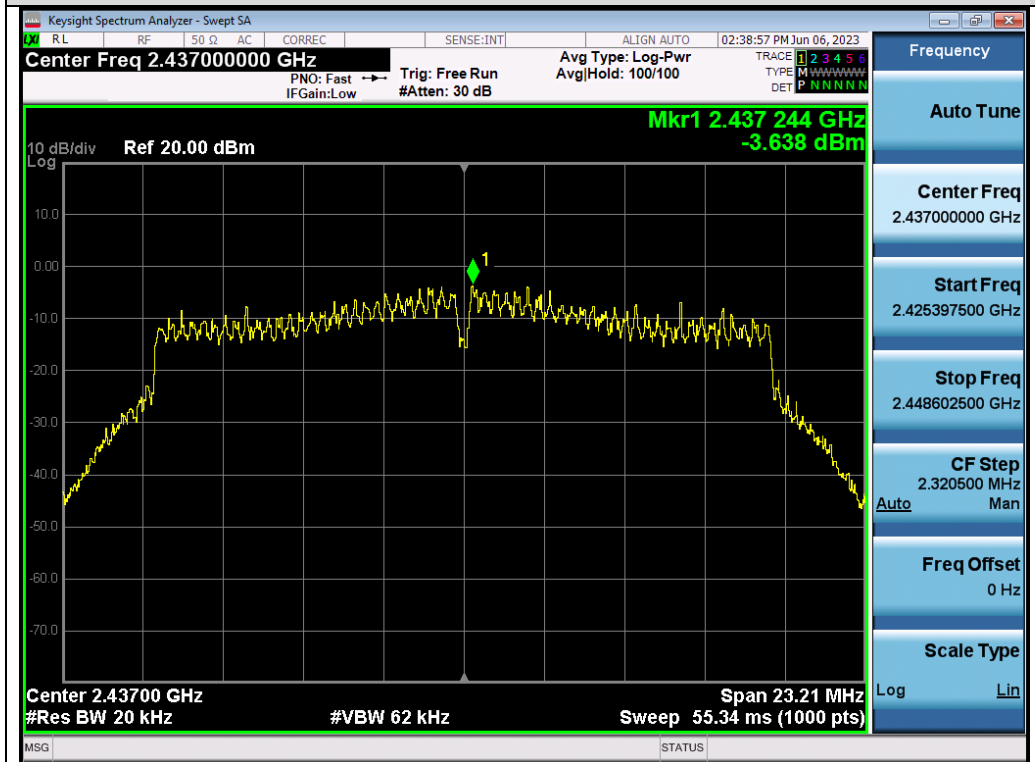


Test_Graph_802.11g_ANT1_2462_6Mbps_PSD

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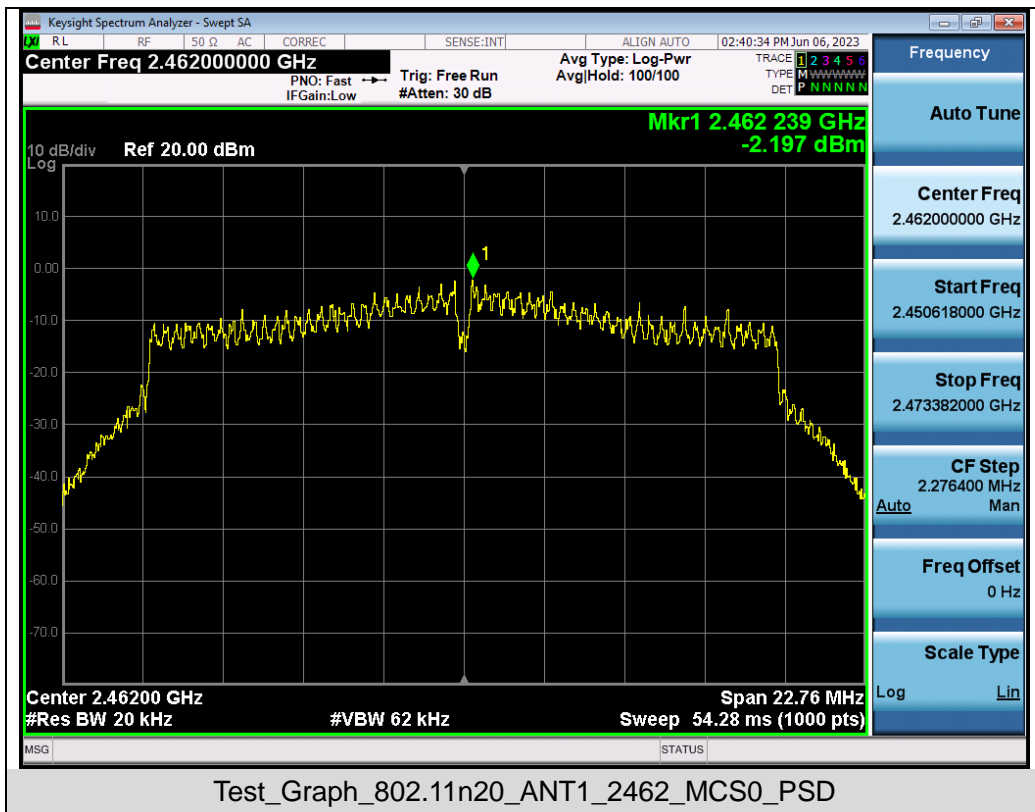


Test_Graph_802.11n20_ANT1_2412_MCS0_PSD



Test_Graph_802.11n20_ANT1_2437_MCS0_PSD

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 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd
 Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

11. RADIATED EMISSION

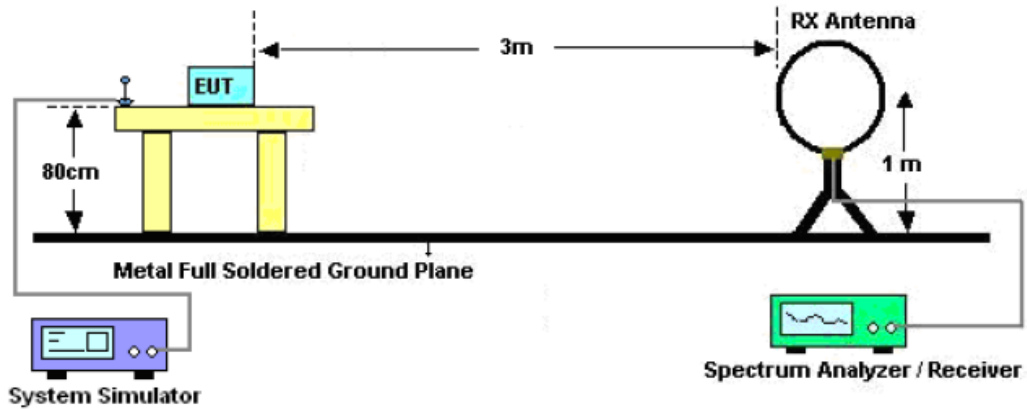
11.1. MEASUREMENT PROCEDURE

1. 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.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. 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.
4. 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.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, 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.
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. 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.
8. 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.
9. 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.
10. 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.

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11.2. TEST SETUP

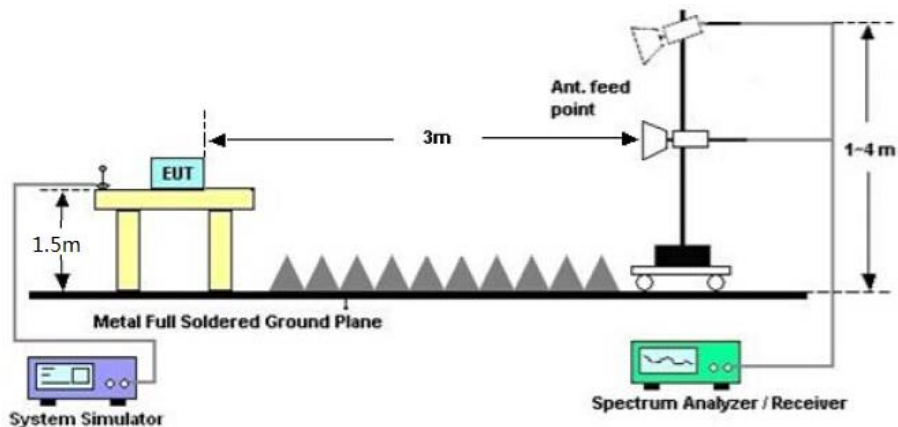
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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11.3. LIMITS AND MEASUREMENT RESULT

15.209(a) Limit in the below table has to be followed

| Frequencies (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 |

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

11.4. TEST RESULT

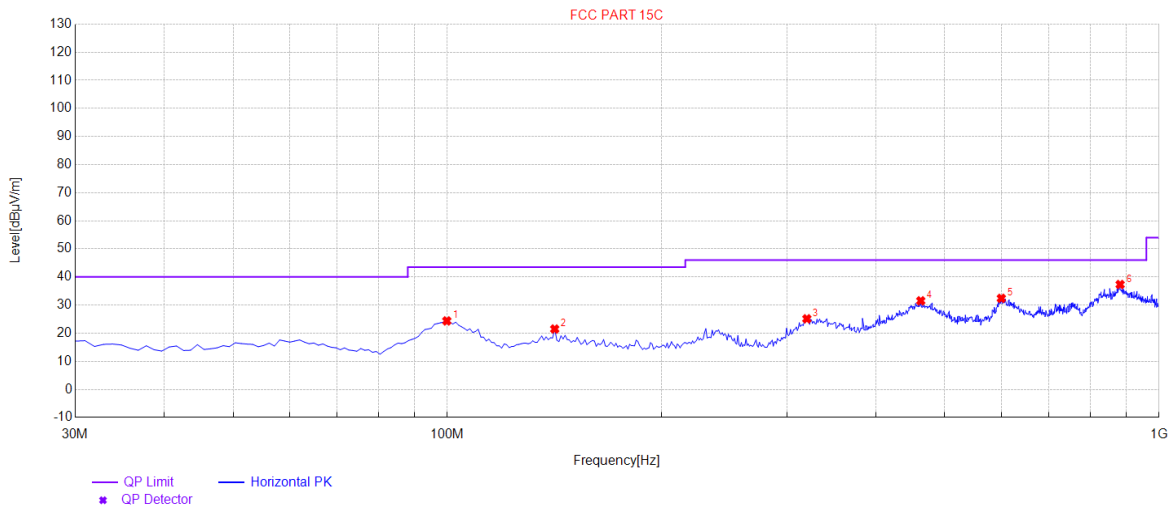
Radiated emission below 30MHz

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 from 30MHz to 1000MHz

| | | | |
|--------------------|-------------------------------------|--------------------------|----------------|
| EUT | Portable Wi-Fi Phone | Model Name | W610W |
| Temperature | 25°C | Relative Humidity | 58% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2412MHz | Antenna | Horizontal |



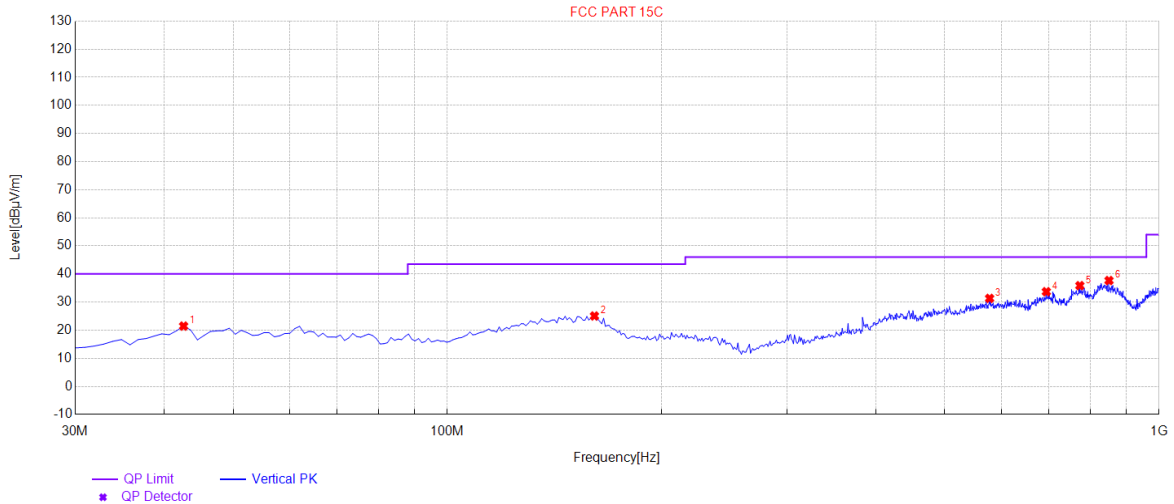
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1 | 99.84 | 24.36 | 21.38 | 43.50 | 19.14 | 100 | 240 | Horizontal |
| 2 | 141.55 | 21.48 | 14.80 | 43.50 | 22.02 | 100 | 70 | Horizontal |
| 3 | 320.03 | 25.12 | 21.33 | 46.00 | 20.88 | 100 | 340 | Horizontal |
| 4 | 462.62 | 31.52 | 27.40 | 46.00 | 14.48 | 100 | 130 | Horizontal |
| 5 | 600.36 | 32.40 | 28.71 | 46.00 | 13.60 | 100 | 330 | Horizontal |
| 6 | 881.66 | 37.32 | 33.14 | 46.00 | 8.68 | 100 | 310 | Horizontal |

RESULT: PASS

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

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| | | | |
|--------------------|-------------------------------------|--------------------------|----------------|
| EUT | Portable Wi-Fi Phone | Model Name | W610W |
| Temperature | 25°C | Relative Humidity | 58% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2412MHz | Antenna | Vertical |



| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1 | 42.61 | 21.46 | 12.15 | 40.00 | 18.54 | 100 | 140 | Vertical |
| 2 | 160.95 | 25.05 | 21.61 | 43.50 | 18.45 | 100 | 0 | Vertical |
| 3 | 578.05 | 31.31 | 25.62 | 46.00 | 14.69 | 100 | 40 | Vertical |
| 4 | 694.45 | 33.69 | 28.74 | 46.00 | 12.31 | 100 | 270 | Vertical |
| 5 | 773.99 | 35.85 | 30.81 | 46.00 | 10.15 | 100 | 0 | Vertical |
| 6 | 850.62 | 37.66 | 32.25 | 46.00 | 8.34 | 100 | 10 | Vertical |

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The “Factor” value can be calculated automatically by software of measurement system.

3. All test modes had been pre-tested. The 802.11b at low channel is the worst case and recorded in the report.

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Radiated emission above 1GHz

| | | | |
|--------------------|-------------------------------------|--------------------------|----------------|
| EUT | Portable Wi-Fi Phone | Model Name | W610W |
| Temperature | 25°C | Relative Humidity | 58% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2412MHz | Antenna | Horizontal |

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Value Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|------------|
| 4824.000 | 55.26 | 0.08 | 55.34 | 74 | -18.66 | peak |
| 4824.000 | 46.29 | 0.08 | 46.37 | 54 | -7.63 | AVG |
| 7236.000 | 52.43 | 2.21 | 54.64 | 74 | -19.36 | peak |
| 7236.000 | 41.38 | 2.21 | 43.59 | 54 | -10.41 | AVG |
| | | | | | | |
| | | | | | | |

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| | | | |
|--------------------|-------------------------------------|--------------------------|----------------|
| EUT | Portable Wi-Fi Phone | Model Name | W610W |
| Temperature | 25°C | Relative Humidity | 58% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2412MHz | Antenna | Vertical |

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Value Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|------------|
| 4824.000 | 56.39 | 0.08 | 56.47 | 74 | -17.53 | peak |
| 4824.000 | 46.28 | 0.08 | 46.36 | 54 | -7.64 | AVG |
| 7236.000 | 52.14 | 2.21 | 54.35 | 74 | -19.65 | peak |
| 7236.000 | 41.38 | 2.21 | 43.59 | 54 | -10.41 | AVG |
| | | | | | | |
| | | | | | | |

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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| | | | |
|--------------------|-------------------------------------|--------------------------|----------------|
| EUT | Portable Wi-Fi Phone | Model Name | W610W |
| Temperature | 25°C | Relative Humidity | 58% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2437MHz | Antenna | Horizontal |

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Value Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|------------|
| 4874.000 | 56.97 | 0.14 | 57.11 | 74 | -16.89 | peak |
| 4874.000 | 46.28 | 0.14 | 46.42 | 54 | -7.58 | AVG |
| 7311.000 | 51.27 | 2.36 | 53.63 | 74 | -20.37 | peak |
| 7311.000 | 42.15 | 2.36 | 44.51 | 54 | -9.49 | AVG |
| | | | | | | |
| | | | | | | |

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| | | | |
|--------------------|-------------------------------------|--------------------------|----------------|
| EUT | Portable Wi-Fi Phone | Model Name | W610W |
| Temperature | 25°C | Relative Humidity | 58% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2437MHz | Antenna | Vertical |

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Value Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|------------|
| 4874.000 | 56.34 | 0.14 | 56.48 | 74 | -17.52 | peak |
| 4874.000 | 46.28 | 0.14 | 46.42 | 54 | -7.58 | AVG |
| 7311.000 | 52.18 | 2.36 | 54.54 | 74 | -19.46 | peak |
| 7311.000 | 41.25 | 2.36 | 43.61 | 54 | -10.39 | AVG |
| | | | | | | |
| | | | | | | |

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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| | | | |
|--------------------|-------------------------------------|--------------------------|----------------|
| EUT | Portable Wi-Fi Phone | Model Name | W610W |
| Temperature | 25°C | Relative Humidity | 58% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with date rate 1 2462MHz | Antenna | Horizontal |

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Value Type |
|---|-------------------------|----------------|----------------------------|--------------------|----------------|------------|
| 4924.000 | 56.34 | 0.22 | 56.56 | 74 | -17.44 | peak |
| 4924.000 | 45.28 | 0.22 | 45.5 | 54 | -8.5 | AVG |
| 7386.000 | 51.24 | 2.64 | 53.88 | 74 | -20.12 | peak |
| 7386.000 | 42.18 | 2.64 | 44.82 | 54 | -9.18 | AVG |
| | | | | | | |
| | | | | | | |
| Remark: | | | | | | |
| Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |

| | | | |
|--------------------|-------------------------------------|--------------------------|----------------|
| EUT | Portable Wi-Fi Phone | Model Name | W610W |
| Temperature | 25°C | Relative Humidity | 58% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with date rate 1 2462MHz | Antenna | Vertical |

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Value Type |
|---|-------------------------|----------------|----------------------------|--------------------|----------------|------------|
| 4924.000 | 56.34 | 0.22 | 56.56 | 74 | -17.44 | peak |
| 4924.000 | 46.28 | 0.22 | 46.5 | 54 | -7.5 | AVG |
| 7386.000 | 52.14 | 2.64 | 54.78 | 74 | -19.22 | peak |
| 7386.000 | 42.19 | 2.64 | 44.83 | 54 | -9.17 | AVG |
| | | | | | | |
| | | | | | | |
| Remark: | | | | | | |
| Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |

RESULT: PASS

Note:

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The “Factor” value can be calculated automatically by software of measurement system.

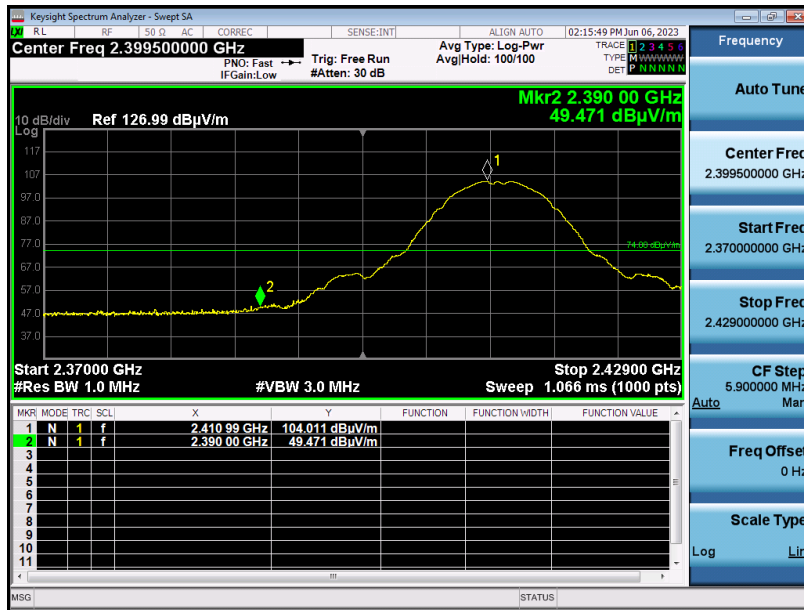
All test modes had been pre-tested. The 802.11b mode is the worst case and recorded in the report.

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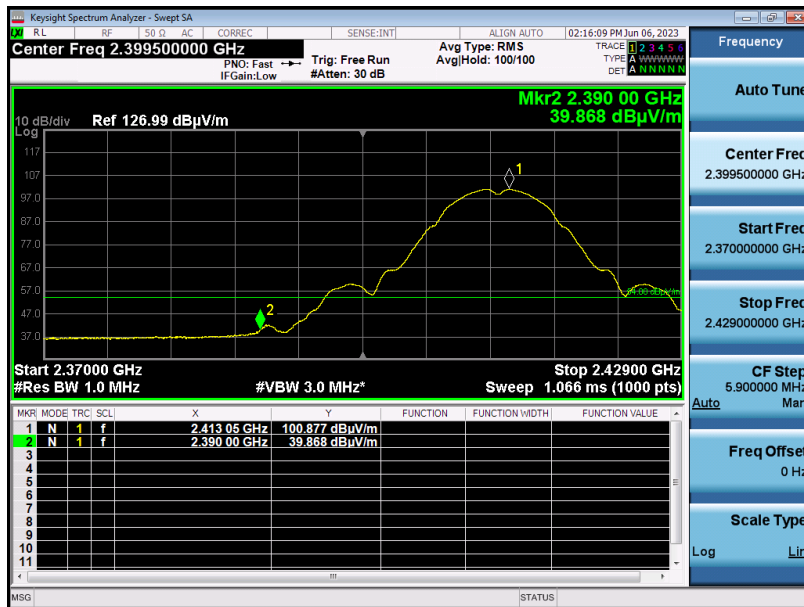
Test result for band edge emission at restricted bands

| | | | |
|-------------|-------------------------------------|-------------------|----------------|
| EUT | Portable Wi-Fi Phone | Model Name | W610W |
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2412MHz | Antenna | Horizontal |

Test Graph for Peak Measurement



Test Graph for Average Measurement

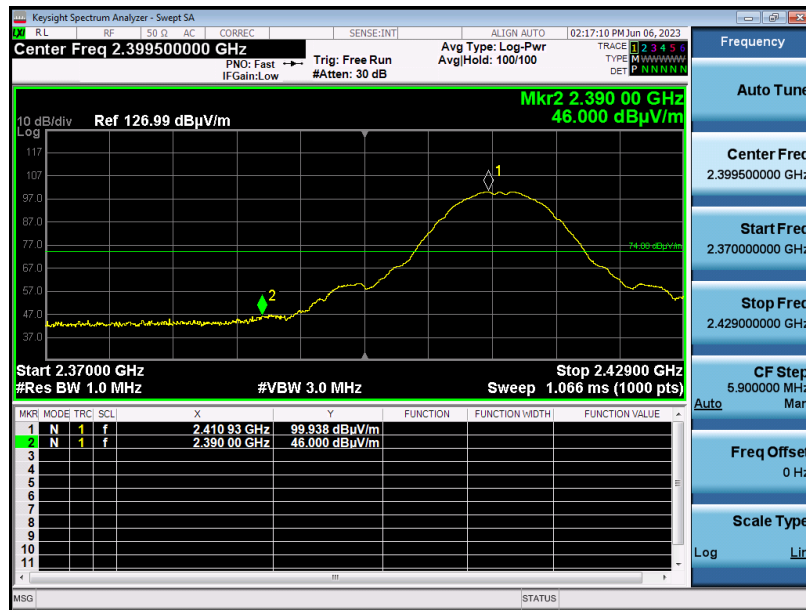


RESULT: PASS

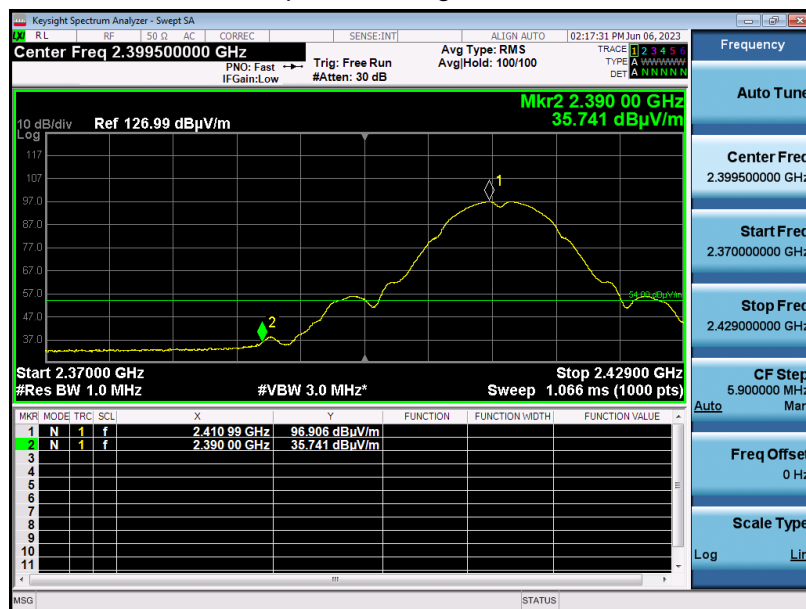
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| | | | |
|-------------|-------------------------------------|-------------------|----------------|
| EUT | Portable Wi-Fi Phone | Model Name | W610W |
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2412MHz | Antenna | Vertical |

Test Graph for Peak Measurement



Test Graph for Average Measurement



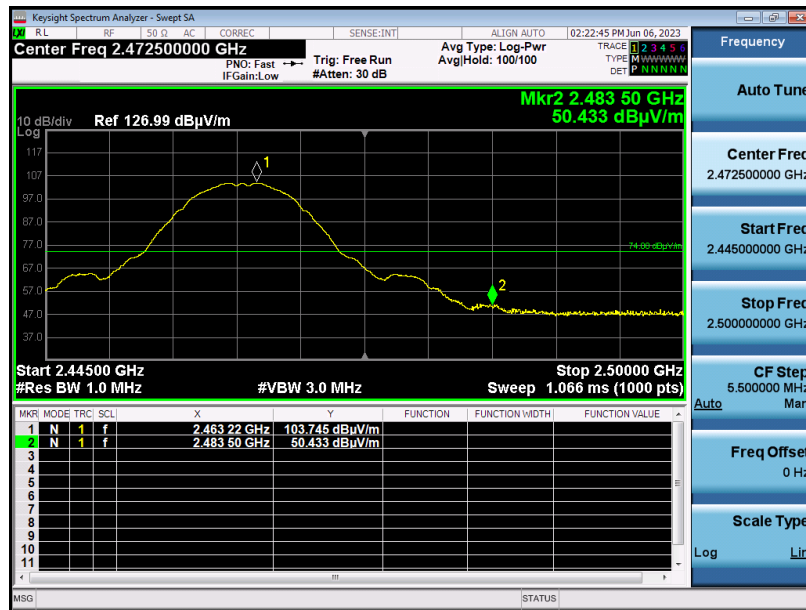
RESULT: PASS

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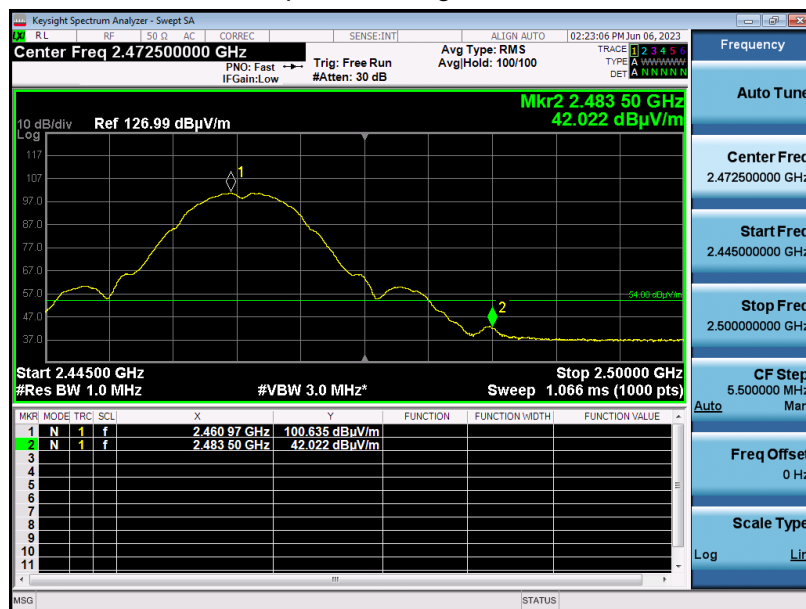
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| | | | |
|-------------|-------------------------------------|-------------------|----------------|
| EUT | Portable Wi-Fi Phone | Model Name | W610W |
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2462MHz | Antenna | Horizontal |

Test Graph for Peak Measurement



Test Graph for Average Measurement

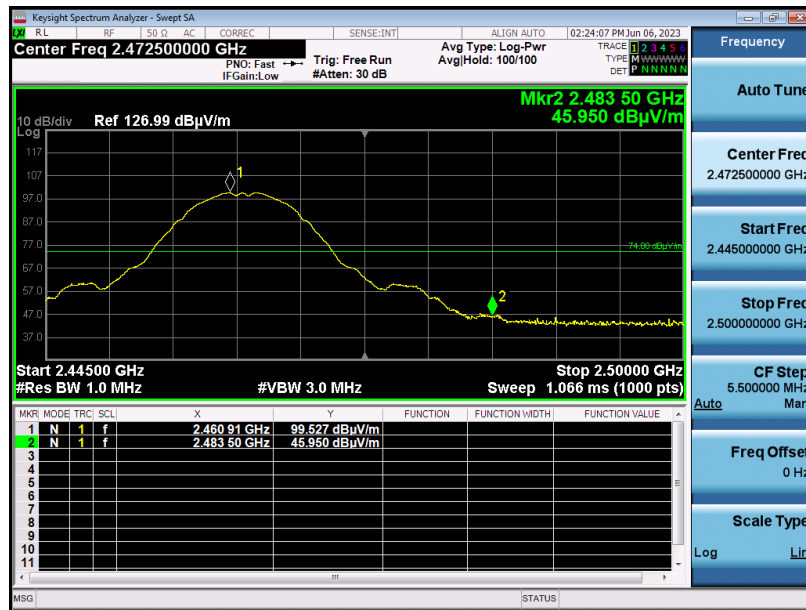


RESULT: PASS

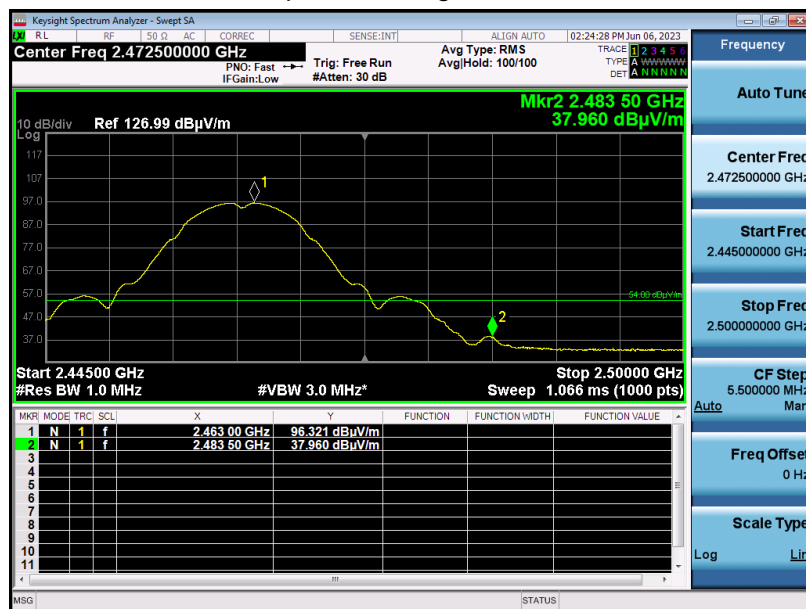
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| | | | |
|-------------|-------------------------------------|-------------------|----------------|
| EUT | Portable Wi-Fi Phone | Model Name | W610W |
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2462MHz | Antenna | Vertical |

Test Graph for Peak Measurement



Test Graph for Average Measurement

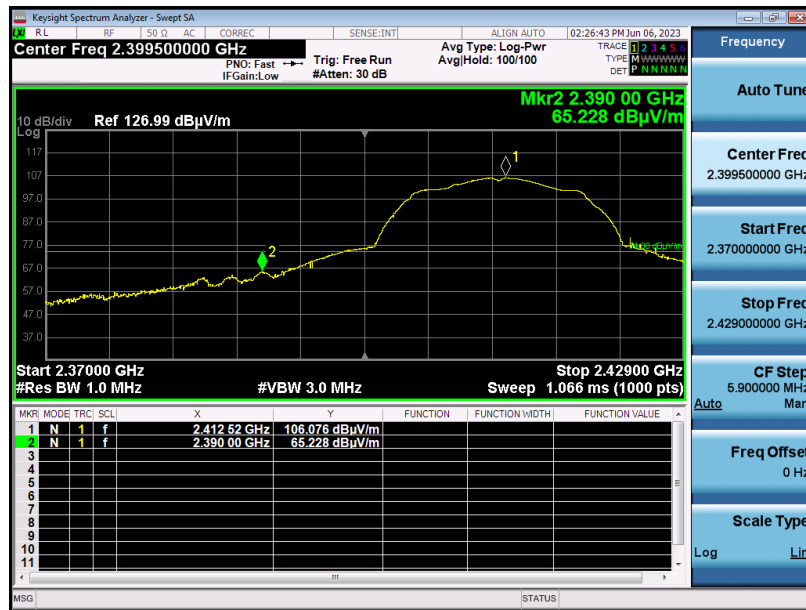


RESULT: PASS

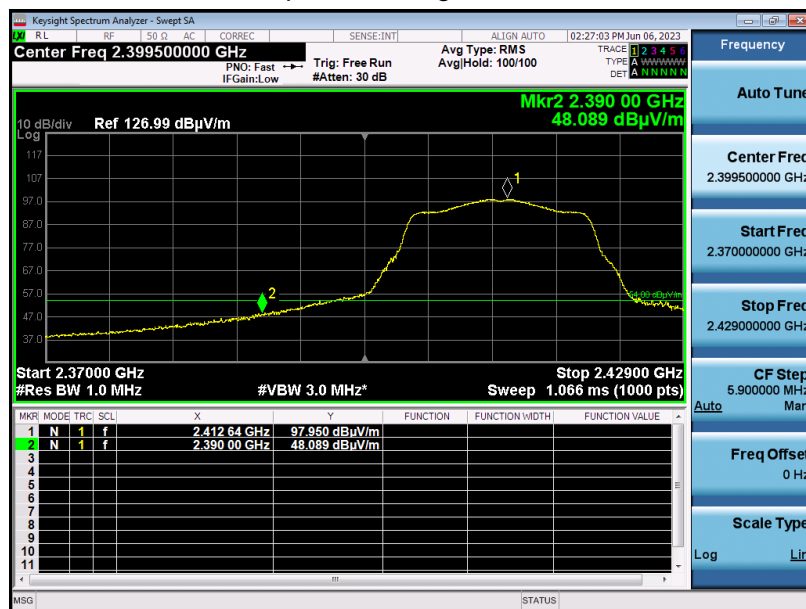
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| | | | |
|-------------|-------------------------------------|-------------------|----------------|
| EUT | Portable Wi-Fi Phone | Model Name | W610W |
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11g with data rate 6 2412MHz | Antenna | Horizontal |

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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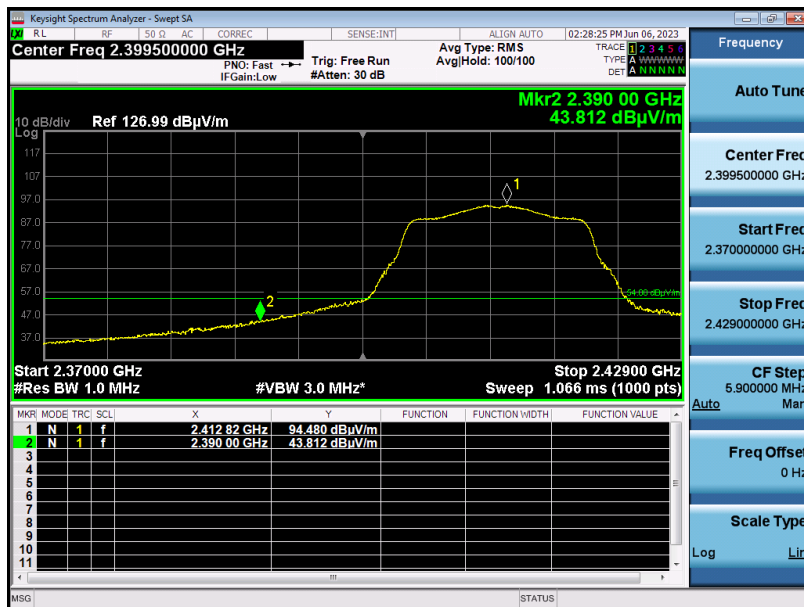
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| | | | |
|-------------|-------------------------------------|-------------------|----------------|
| EUT | Portable Wi-Fi Phone | Model Name | W610W |
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11g with data rate 6 2412MHz | Antenna | Vertical |

Test Graph for Peak Measurement



Test Graph for Average Measurement



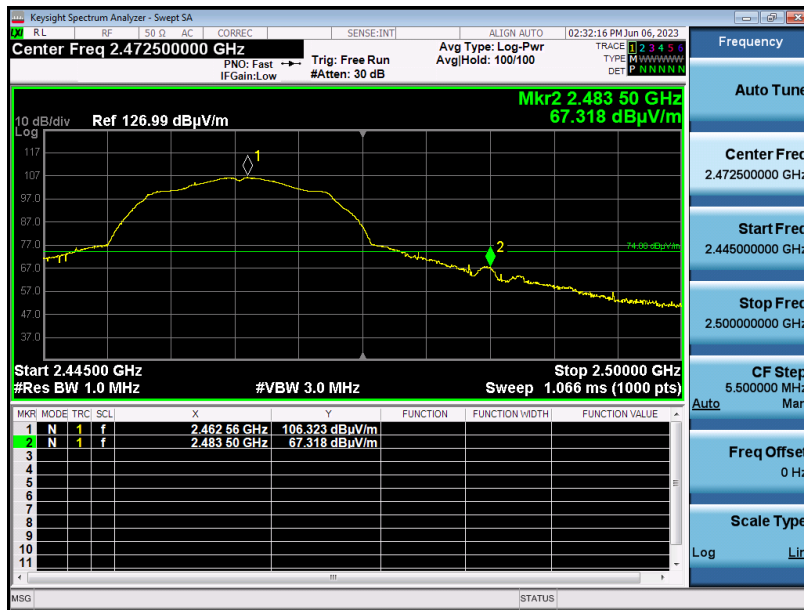
RESULT: PASS

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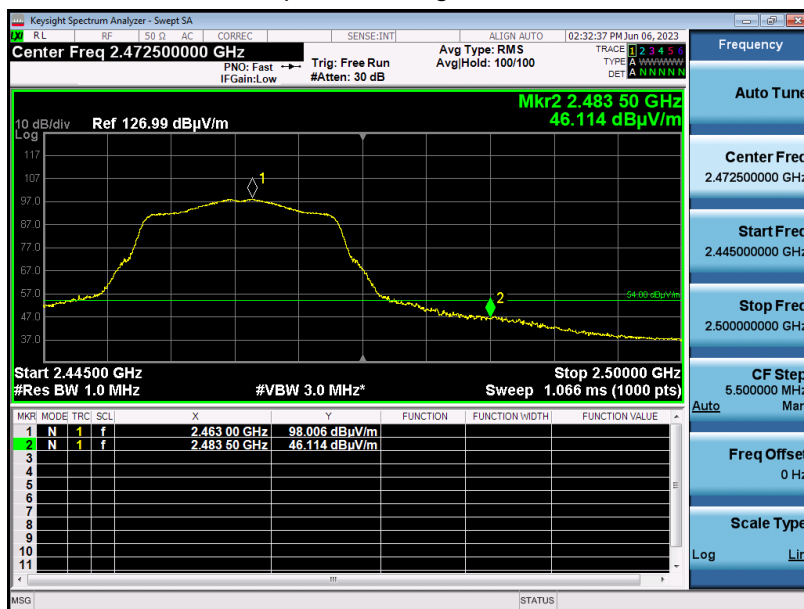
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| | | | |
|-------------|-------------------------------------|-------------------|----------------|
| EUT | Portable Wi-Fi Phone | Model Name | W610W |
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11g with data rate 6 2462MHz | Antenna | Horizontal |

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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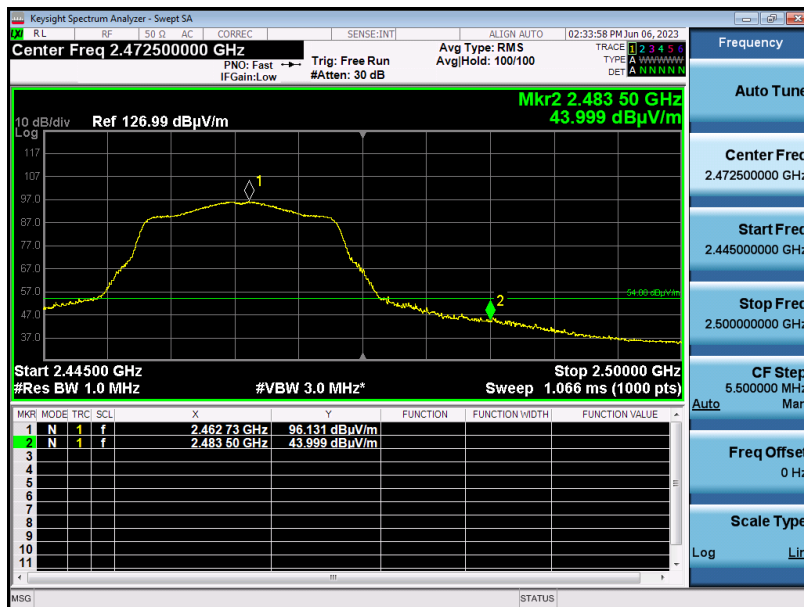
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| | | | |
|-------------|-------------------------------------|-------------------|----------------|
| EUT | Portable Wi-Fi Phone | Model Name | W610W |
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11g with data rate 6 2462MHz | Antenna | Vertical |

Test Graph for Peak Measurement



Test Graph for Average Measurement



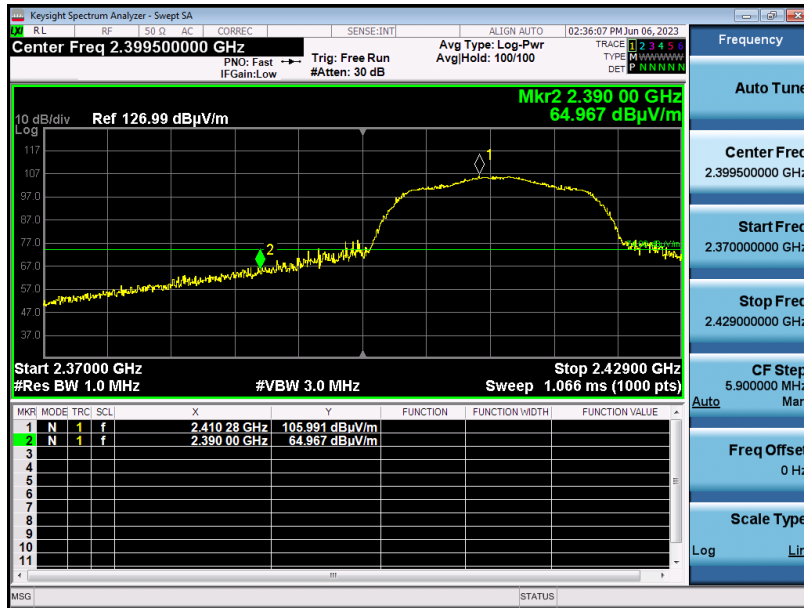
RESULT: PASS

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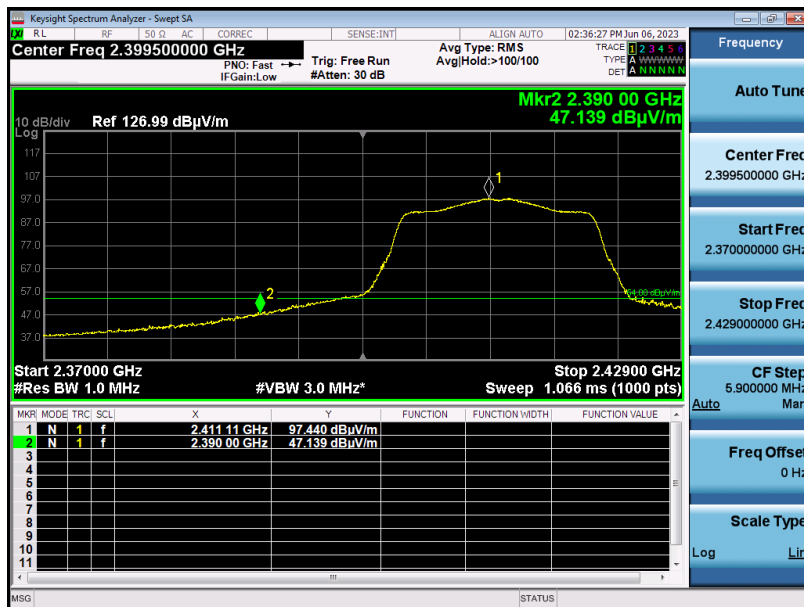
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| | | | |
|-------------|---|-------------------|----------------|
| EUT | Portable Wi-Fi Phone | Model Name | W610W |
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11n20 with data rate 6.5 2412MHz | Antenna | Horizontal |

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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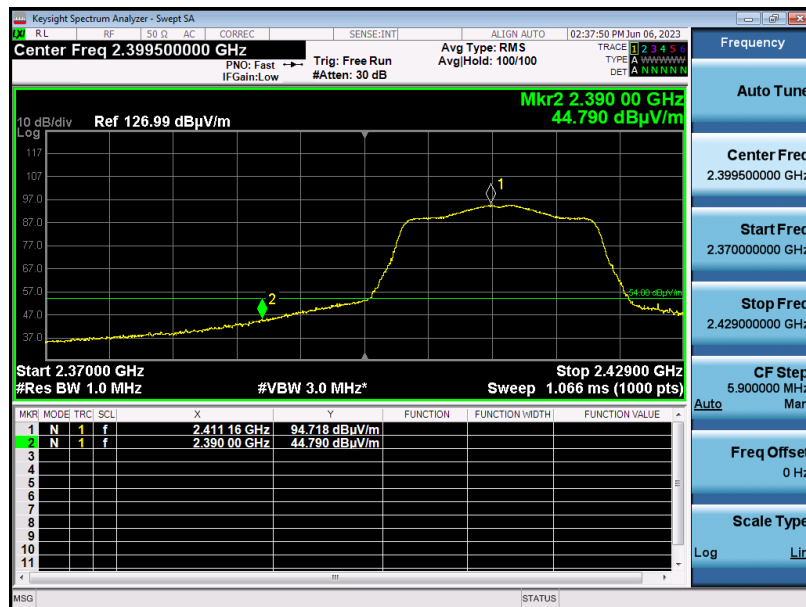
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| | | | |
|-------------|---|-------------------|----------------|
| EUT | Portable Wi-Fi Phone | Model Name | W610W |
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11n20 with data rate 6.5 2412MHz | Antenna | Vertical |

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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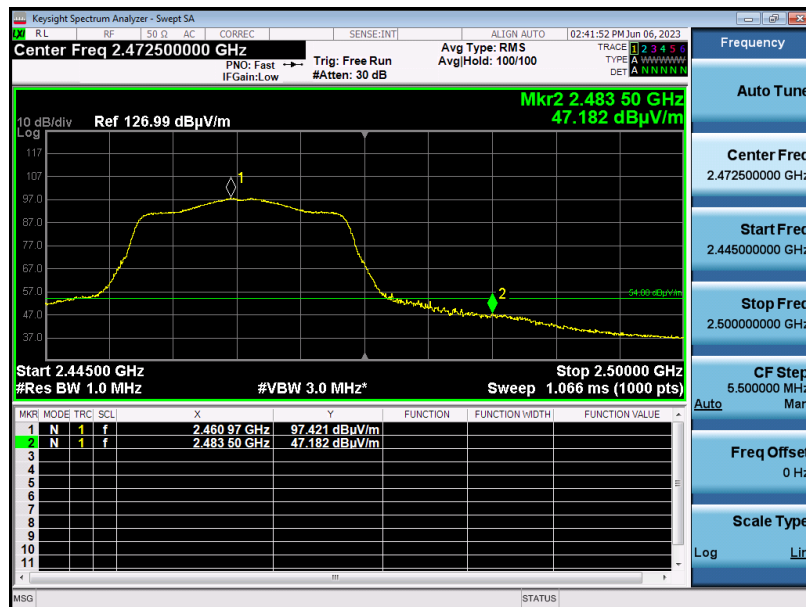
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| | | | |
|-------------|---|-------------------|----------------|
| EUT | Portable Wi-Fi Phone | Model Name | W610W |
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11n20 with data rate 6.5 2462MHz | Antenna | Horizontal |

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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| | | | |
|-------------|---|-------------------|----------------|
| EUT | Portable Wi-Fi Phone | Model Name | W610W |
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11n20 with data rate 6.5 2462MHz | Antenna | Vertical |

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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12. LINE CONDUCTED EMISSION TEST

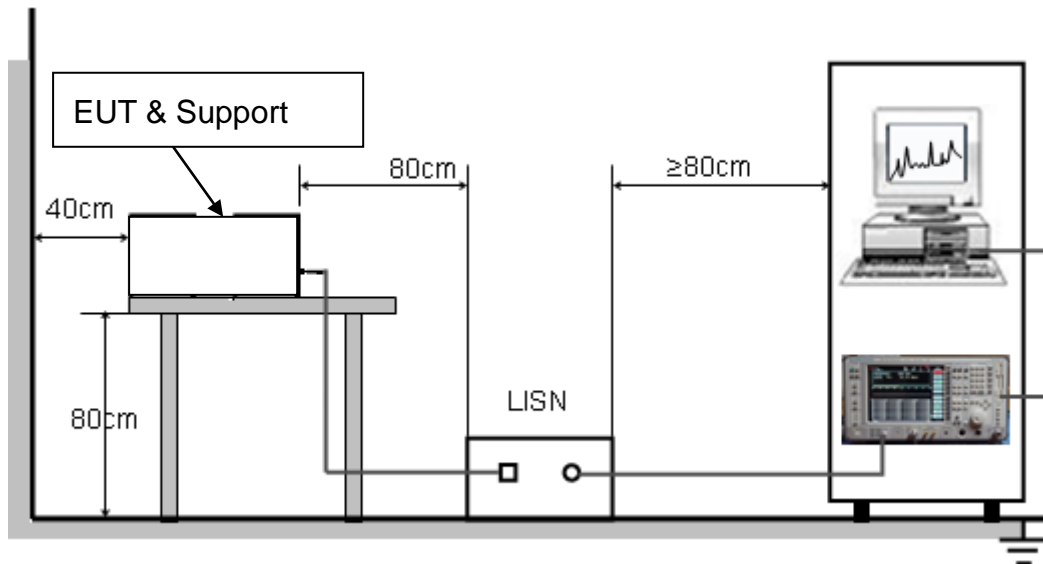
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

| Frequency | Maximum RF Line Voltage | |
|---------------|-------------------------|----------------------|
| | Q.P (dB μ V) | Average (dB μ 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. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipment received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC 5V power from adapter which received AC120V/60Hz power from a LISN.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 Ohm load; the second scan had Line 1 connected to a 50 Ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

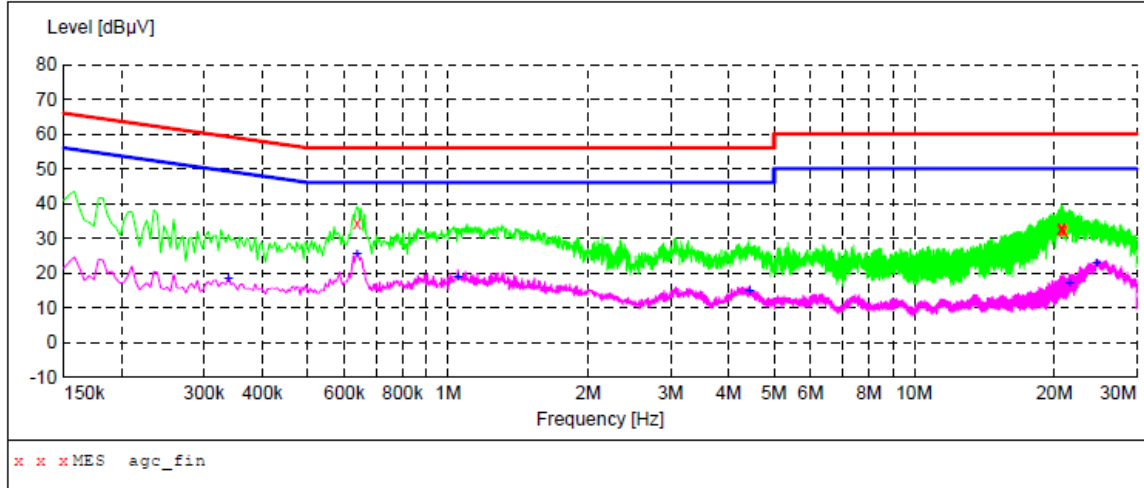
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less – 2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case was reported on the Summary Data page.

12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "agc_fin"

2023/6/5 22:00

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line |
|------------------|---------------|--------------|---------------|--------------|----------|------|
| 0.638000 | 34.50 | 4.3 | 56 | 21.5 | QP | L1 |
| 20.614000 | 32.60 | 5.9 | 60 | 27.4 | QP | L1 |
| 20.714000 | 32.80 | 5.9 | 60 | 27.2 | QP | L1 |
| 20.742000 | 32.80 | 5.9 | 60 | 27.2 | QP | L1 |
| 20.846000 | 32.40 | 5.9 | 60 | 27.6 | QP | L1 |
| 20.926000 | 31.90 | 6.0 | 60 | 28.1 | QP | L1 |

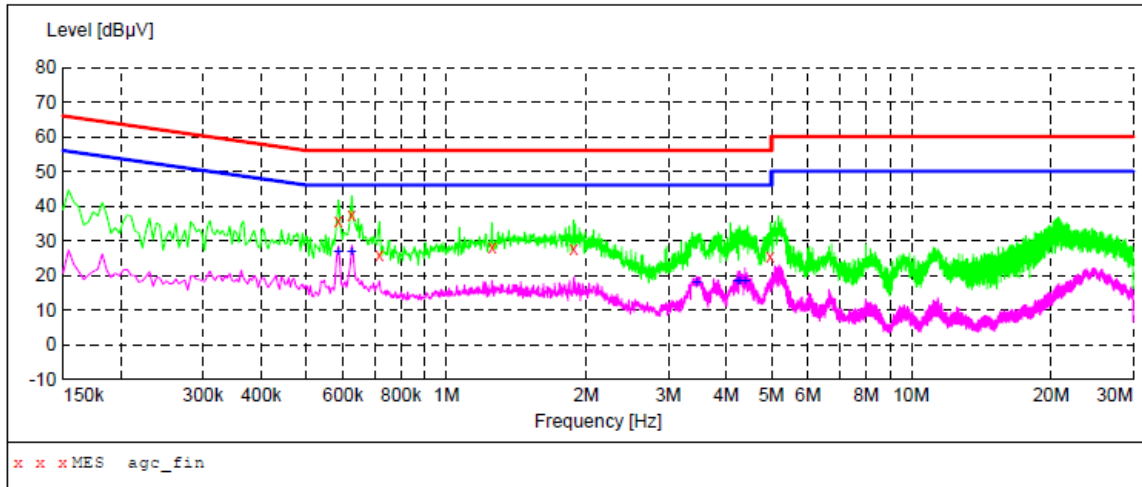
MEASUREMENT RESULT: "agc_fin2"

2023/6/5 22:00

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line |
|------------------|---------------|--------------|---------------|--------------|----------|------|
| 0.338000 | 18.10 | 4.3 | 49 | 31.2 | AV | L1 |
| 0.638000 | 25.20 | 4.3 | 46 | 20.8 | AV | L1 |
| 1.050000 | 18.60 | 4.3 | 46 | 27.4 | AV | L1 |
| 4.438000 | 14.60 | 4.7 | 46 | 31.4 | AV | L1 |
| 21.494000 | 16.90 | 6.1 | 50 | 33.1 | AV | L1 |
| 24.618000 | 22.80 | 6.8 | 50 | 27.2 | AV | L1 |

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Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "agc_fin"

2023/6/5 22:03

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line |
|------------------|---------------|--------------|---------------|--------------|----------|------|
| 0.586000 | 35.70 | 4.2 | 56 | 20.3 | QP | N |
| 0.626000 | 37.60 | 4.2 | 56 | 18.4 | QP | N |
| 0.718000 | 25.80 | 4.3 | 56 | 30.2 | QP | N |
| 1.254000 | 27.90 | 4.4 | 56 | 28.1 | QP | N |
| 1.878000 | 27.60 | 4.6 | 56 | 28.4 | QP | N |
| 4.982000 | 25.30 | 4.7 | 56 | 30.7 | QP | N |

MEASUREMENT RESULT: "agc_fin2"

2023/6/5 22:03

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line |
|------------------|---------------|--------------|---------------|--------------|----------|------|
| 0.586000 | 26.50 | 4.2 | 46 | 19.5 | AV | N |
| 0.626000 | 26.50 | 4.2 | 46 | 19.5 | AV | N |
| 3.450000 | 18.00 | 4.7 | 46 | 28.0 | AV | N |
| 4.230000 | 18.10 | 4.7 | 46 | 27.9 | AV | N |
| 4.274000 | 18.30 | 4.7 | 46 | 27.7 | AV | N |
| 4.386000 | 18.10 | 4.7 | 46 | 27.9 | AV | N |

RESULT: PASS

Note: All test modes had been pre-tested. The 802.11b at low channel is the worst case and recorded in the report.

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC14499230501AP02

APPENDIX B: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC14499230501AP03

----END OF REPORT----

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2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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