





RF TEST REPORT

Applicant MeiG Smart Technology Co., Ltd

FCC ID 2APJ4-SLM927D

Product LTE Module

Brand MEIGLink

Model SLM927D

Report No. R2411A1659-R4

Issue Date December 27, 2024

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15E (2023)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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Summary of measurement results

| Number | Test Case | Clause in FCC rules | Verdict |
|--------|------------------------|---------------------|---------|
| 1 | Average output power | 15.407(a) | PASS |
| 2 | Occupied bandwidth | 15.407(e) | PASS |
| 3 | Frequency stability | 15.407(g) | PASS |
| 4 | Power spectral density | 15.407(a) | PASS |
| 5 | Unwanted Emissions | 15.407(b) | PASS |
| 6 | Conducted Emissions | 15.207 | PASS |

Date of Testing: November 15, 2024 ~ December 12, 2024

Date of Sample Received: November 15, 2024

Note: PASS: The EUT complies with the essential requirements in the standard.

FAIL: The EUT does not comply with the essential requirements in the standard. All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.



1. Test Laboratory

1.1. Notes of the test report

This report shall not be reproduced in full or partial, without the written approval of **Eurofins TA Technology (Shanghai) Co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2. Test facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA (Certificate Number: 3857.01)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

1.3. Testing Location

Company: Eurofins TA Technology (Shanghai) Co., Ltd.

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2. General Description of Equipment under Test

2.1. Applicant and Manufacturer Information

| Applicant | MeiG Smart Technology Co., Ltd | | |
|----------------------|---|--|--|
| Applicant address | 2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang, | | |
| Applicant address | Fuyong Street, Bao'an District, Shenzhen, China. | | |
| Manufacturer | MeiG Smart Technology Co., Ltd | | |
| Manufacturer address | 2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang, | | |
| Manufacturer address | Fuyong Street, Bao'an District, Shenzhen, China. | | |

2.2. General information

| EUT Description | | | | | |
|--|--|--------------------|--|--|--|
| Model | SLM927D | | | | |
| Lab internal SN | R2411A1659/S01 | | | | |
| HW Version | SLM927D_MB_V1.01 | | | | |
| Software Version | V01_T04 | | | | |
| Power Supply | External power supply | | | | |
| Antenna Type | External Antenna | | | | |
| Antenna Connector | SMA-J antenna (meet with the standard FCC Part 15.203 requirement) | | | | |
| Antenna Gain | U-NII-1: 1.46 dBi | U-NII-2C: 1.48 dBi | | | |
| Antenna Gam | U-NII-2A: 1.52 dBi | U-NII-3: 1.48 dBi | | | |
| | U-NII-1: 5150MHz-5250MHz | | | | |
| Operating Frequency | U-NII-2A: 5250MHz -5350MHz | | | | |
| Range(s) | U-NII-2C: 5470MHz-5725MHz | | | | |
| | U-NII-3: 5725MHz -5850MHz | | | | |
| | 802.11a: OFDM | | | | |
| Modulation Type | 802.11n (HT20/HT40): OFDM | | | | |
| | 802.11ac (VHT20/VHT40/VHT80): OFDM | | | | |
| Max. Output Power 16.94 dBm | | | | | |
| Operating temperature range | nge -25 ° C to 75 ° C | | | | |
| Operating voltage range 3.5 V to 4.0 V | | | | | |
| State voltage 3.8 V | | | | | |
| NI. C. | | | | | |

- 1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant.
- 2. This device support automatically discontinue transmission, while the device is not transmitting any information, the device can automatically discontinue transmission and become standby mode for power saving. The device can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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3. (a) Manufacturers implements security features in any digitally modulated devices capable of operating in any of the U-NII bands, so that third parties are not able to reprogram the device to operate outside the parameters for which the device was certified. The software prevents the user from operating the transmitter with operating frequencies, output power, modulation types or other radio frequency parameters outside those that were approved for the device.

Manufacturers uses means including, but not limited to the use of a private network that allows only authenticated users to download software, electronic signatures in software or coding in hardware that is decoded by software to verify that new software can be legally loaded into a device to meet these requirements and must describe the methods in their application for equipment authorization.

(b) Manufacturers take steps to ensure that DFS functionality cannot be disabled by the operator of the U-NII device.

3. Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards:

FCC CFR47 Part 15E (2023) Unlicensed National Information Infrastructure Devices

ANSI C63.10-2013

Reference standard:

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

4. Test Configuration

Test Mode

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (Y axis) and the worst case was recorded.

In order to find the worst case condition, Pre-tests are needed at the presence of different data rate. Preliminary tests have been done on all the configuration for confirming worst case. Data rate below means worst-case rate of each test item.

Worst-case data rates are shown as following table.

| Mode | Data Rate |
|----------------|-----------|
| 802.11a | 6 Mbps |
| 802.11n HT20 | MCS0 |
| 802.11n HT40 | MCS0 |
| 802.11ac VHT20 | MCS0 |
| 802.11ac VHT40 | MCS0 |
| 802.11ac VHT80 | MCS0 |



Wireless Technology and Frequency Range

| Wireless | Technology | Bandwidth | Channel | Frequency |
|----------|------------|-----------|---------|-----------|
| | | | 36 | 5180MHz |
| | | 00 MI I- | 40 | 5200MHz |
| | | 20 MHz | 44 | 5220MHz |
| | U-NII-1 | | 48 | 5240MHz |
| | | 40 MHz | 38 | 5190MHz |
| | | 40 MHz | 46 | 5230MHz |
| | | 80 MHz | 42 | 5210MHz |
| | | | 52 | 5260MHz |
| | | 20 MHz | 56 | 5280MHz |
| | | ZU WIFIZ | 60 | 5300MHz |
| | U-NII-2A | | 64 | 5320MHz |
| | | 40 MHz | 54 | 5270MHz |
| | | 40 IVINZ | 62 | 5310MHz |
| | | 80 MHz | 58 | 5290MHz |
| | | | 100 | 5500MHz |
| | | | 104 | 5520MHz |
| | | | 108 | 5540MHz |
| | U-NII-2C | | 112 | 5560MHz |
| | | | 116 | 5580MHz |
| | | 20 MH- | 120 | 5600MHz |
| Wi-Fi | | 20 MHz | 124 | 5620MHz |
| | | | 128 | 5640MHz |
| | | | 132 | 5660MHz |
| | | | 136 | 5680MHz |
| | | | 140 | 5700MHz |
| | | | 144 | 5720MHz |
| | | | 102 | 5510MHz |
| | | | 110 | 5550MHz |
| | | 40 MHz | 118 | 5590MHz |
| | | | 126 | 5630MHz |
| | | | 134 | 5670MHz |
| | | | 142 | 5710MHz |
| | | | 106 | 5530MHz |
| | | 80 MHz | 122 | 5610MHz |
| | | | 138 | 5690MHz |
| | T | | 149 | 5745MHz |
| | | | 153 | 5765MHz |
| | U-NII-3 | 20 MHz | 157 | 5785MHz |
| | | | 161 | 5805MHz |
| | | | 165 | 5825MHz |
| | | 40 MHz | 151 | 5755MHz |



RF Test Report Report No.: R2411A1659-R4 159 5795MHz 80 MHz 155 5775MHz Does this device support TPC Function? \square Yes \boxtimes No Does this device support TDWR Band? ⊠Yes □No

5. Test Case Results

5.1. Occupied Bandwidth

Ambient condition

| Temperature | Relative humidity | Pressure | |
|-------------|-------------------|------------------|--|
| 15°C ~ 35°C | 20% ~ 80% | 86 kPa ~ 106 kPa | |

Method of Measurement

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable.

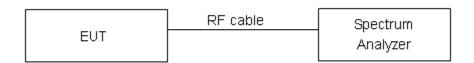
For U-NII-1/U-NII-2A/U-NII-2C, set RBW ≈1% OCB kHz, VBW ≥ 3 × RBW, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 26 dB relative to the maximum level measured in the fundamental emission.

For U-NII-3, Set RBW = 100 kHz, VBW $\geq 3 \times \text{RBW}$, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described above.

Use the 99 % power bandwidth function of the instrument

Test Setup



Limits

For U-NII-1/U-NII-2A/U-NII-2C

No specific occupied bandwidth requirements in Part 15.407.

For U-NII-3

Rule FCC Part §15.407(e)

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U = 936 Hz.



Test Results:

U-NII-1

| Mode | Carrier frequency (MHz) | 99% bandwidth (MHz) | Minimum 26 dB bandwidth (MHz) | Conclusion |
|-----------------|-------------------------------|---------------------------|-------------------------------------|------------|
| | 5180 | 16.664 | 22.827 | PASS |
| 802.11a | 5200 | 16.635 | 23.169 | PASS |
| | 5240 | 16.673 | 22.287 | PASS |
| | 5180 | 17.842 | 22.738 | PASS |
| 802.11n HT20 | 5200 | 17.807 | 23.313 | PASS |
| | 5240 | 17.870 | 23.321 | PASS |
| 002 445 LIT40 | 5190 | 36.265 | 40.967 | PASS |
| 802.11n HT40 | 5230 | 36.271 | 41.179 | PASS |
| | 5180 | 17.798 | 23.913 | PASS |
| 802.11ac VHT20 | 5200 | 17.828 | 24.086 | PASS |
| | 5240 | 17.841 | 23.605 | PASS |
| 000 44cc \/UT40 | 5190 | 36.303 | 40.940 | PASS |
| 802.11ac VHT40 | 5230 | 36.325 | 41.254 | PASS |
| 802.11ac VHT80 | 5210 | 75.777 | 90.119 | PASS |

U-NII-2A

| Mode | Carrier frequency (MHz) | 99% bandwidth (MHz) | Minimum 26 dB bandwidth (MHz) | Conclusion |
|-----------------|-------------------------------|---------------------------|-------------------------------------|------------|
| | 5260 | 16.662 | 22.962 | PASS |
| 802.11a | 5300 | 16.692 | 22.714 | PASS |
| | 5320 | 16.725 | 22.844 | PASS |
| | 5260 | 17.842 | 23.849 | PASS |
| 802.11n HT20 | 5300 | 17.835 | 23.663 | PASS |
| | 5320 | 17.829 | 24.182 | PASS |
| 802.11n HT40 | 5270 | 36.275 | 41.428 | PASS |
| 002.111111140 | 5310 | 36.236 | 40.794 | PASS |
| | 5260 | 17.872 | 22.719 | PASS |
| 802.11ac VHT20 | 5300 | 17.860 | 23.910 | PASS |
| | 5320 | 17.816 | 23.293 | PASS |
| 902 1100 V/UT40 | 5270 | 36.276 | 41.796 | PASS |
| 802.11ac VHT40 | 5310 | 36.255 | 41.072 | PASS |
| 802.11ac VHT80 | 5290 | 75.793 | 96.624 | PASS |



RF Test Report

U-NII-2C

Carrier 99% Minimum 26 dB frequency bandwidth Mode bandwidth Conclusion (MHz) (MHz) (MHz) 5500 16.756 23.590 **PASS PASS** 5600 16.689 23.330 802.11a **PASS** 5700 16.674 24.071 5720 16.732 24.973 **PASS PASS** 5500 17.862 23.866 5600 17.851 24.442 **PASS** 802.11n HT20 5700 17.847 24.153 **PASS PASS** 5720 17.779 24.038 5510 42.335 **PASS** 36.447 5590 36.522 64.473 **PASS** 802.11n HT40 5670 36.332 44.341 **PASS** 5710 **PASS** 36.368 49.391

17.902

17.893

17.881

17.846

36.451

36.432

36.435

36.354

75.820

76.012

24.363

24.679

23.922

24.250

44.962

42.212

47.351

41.487

86.980

99.957

5500

5600

5700

5720

5510

5590

5670

5710

5610

5690

802.11ac VHT20

802.11ac VHT40

802.11ac VHT80

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PASS

U-NII-3

| Mode | Carrier frequency (MHz) | 99% bandwidth (MHz) | Minimum 6 dB bandwidth (MHz) | Limit (kHz) | Conclusion |
|-----------------|-------------------------------|---------------------------|------------------------------------|----------------|------------|
| | 5720 | 16.728 | 14.183 | 500 | PASS |
| 802.11a | 5745 | 16.767 | 15.394 | 500 | PASS |
| 002.11a | 5785 | 16.801 | 15.007 | 500 | PASS |
| | 5825 | 16.691 | 11.397 | 500 | PASS |
| | 5720 | 17.865 | 16.266 | 500 | PASS |
| 802.11n HT20 | 5745 | 17.859 | 16.658 | 500 | PASS |
| 802.1111 1120 | 5785 | 17.859 | 15.567 | 500 | PASS |
| | 5825 | 17.858 | 17.302 | 500 | PASS |
| | 5710 | 36.432 | 35.299 | 500 | PASS |
| 802.11n HT40 | 5755 | 36.464 | 35.397 | 500 | PASS |
| | 5795 | 36.385 | 35.740 | 500 | PASS |
| | 5720 | 17.881 | 15.712 | 500 | PASS |
| 000 44 \/ UT00 | 5745 | 17.864 | 16.938 | 500 | PASS |
| 802.11ac VHT20 | 5785 | 17.875 | 16.638 | 500 | PASS |
| | 5825 | 17.897 | 14.727 | 500 | PASS |
| | 5710 | 36.403 | 35.672 | 500 | PASS |
| 802.11ac VHT40 | 5755 | 36.543 | 35.251 | 500 | PASS |
| | 5795 | 36.297 | 35.359 | 500 | PASS |
| 000 44cc \/UT00 | 5690 | 75.969 | 75.150 | 500 | PASS |
| 802.11ac VHT80 | 5775 | 75.950 | 75.146 | 500 | PASS |

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99% bandwidth

U-NII-1

OBW 802.11a 5180MHz



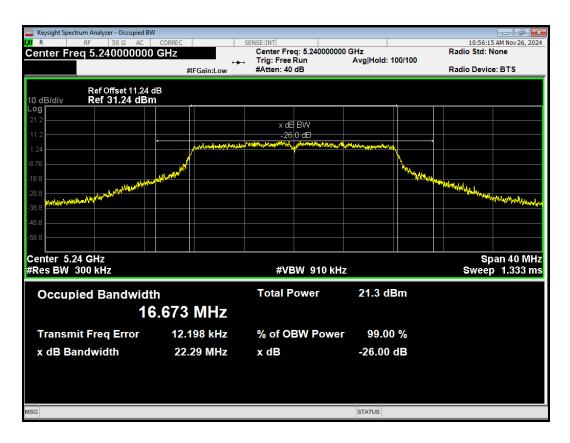
OBW 802.11a 5200MHz





OBW 802.11a 5240MHz

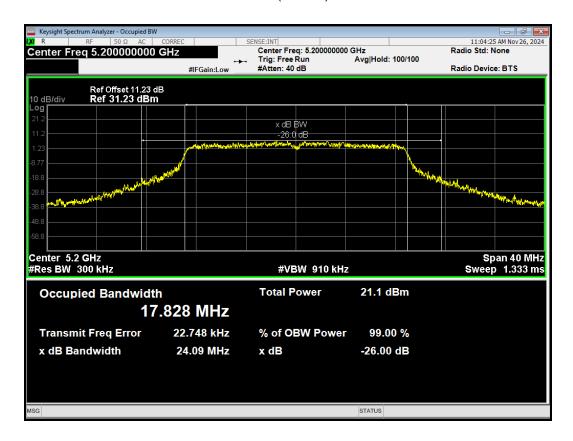
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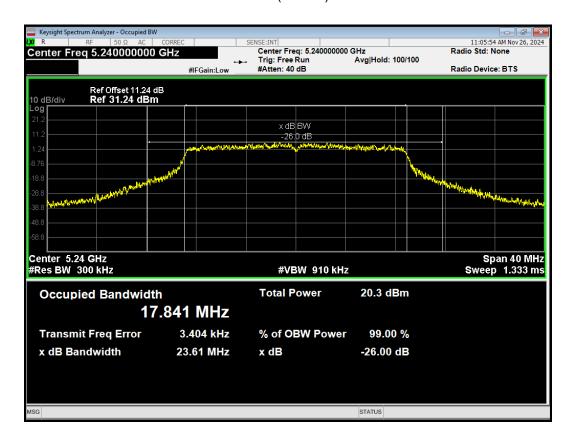
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OBW 802.11ac(VHT20) 5200MHz

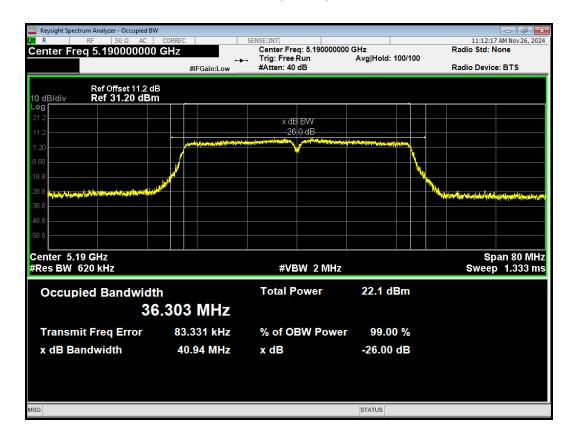


OBW 802.11ac(VHT20) 5240MHz

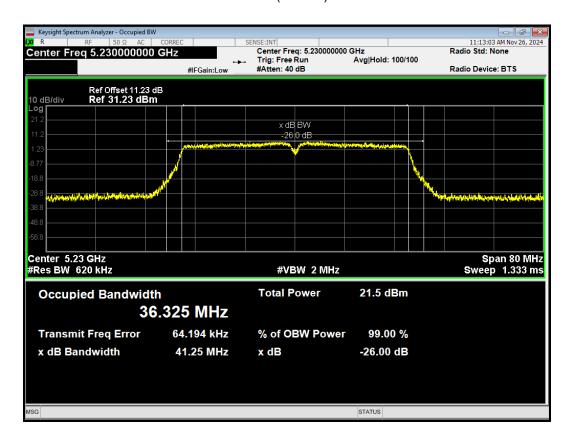




OBW 802.11ac(VHT40) 5190MHz

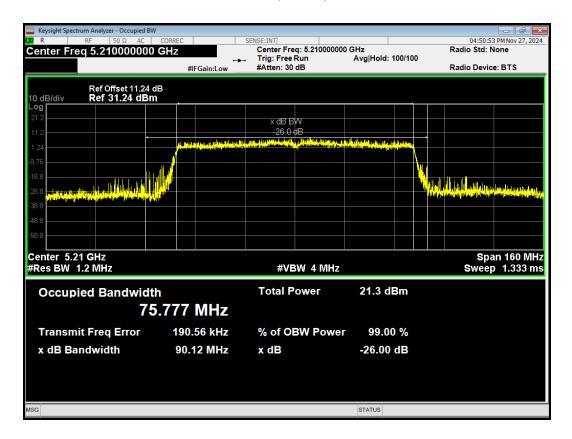


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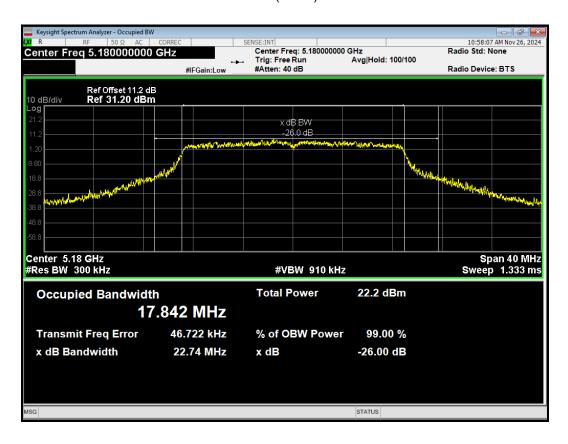




OBW 802.11ac(VHT80) 5210MHz



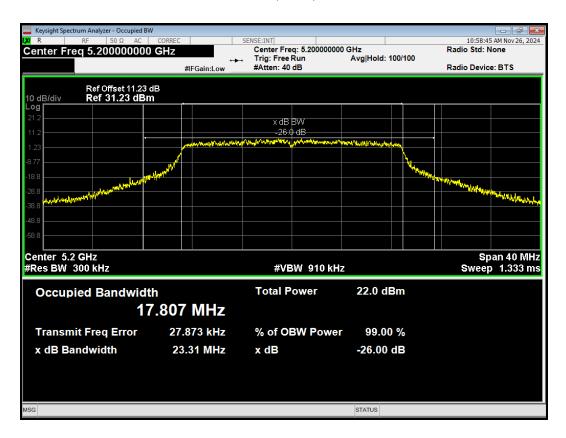
OBW 802.11n(HT20) 5180MHz



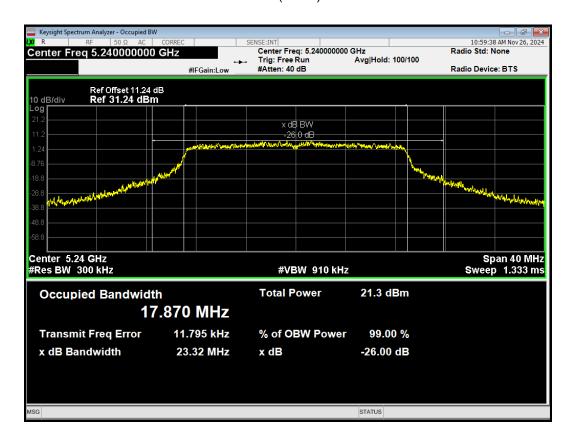


OBW 802.11n(HT20) 5200MHz

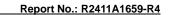
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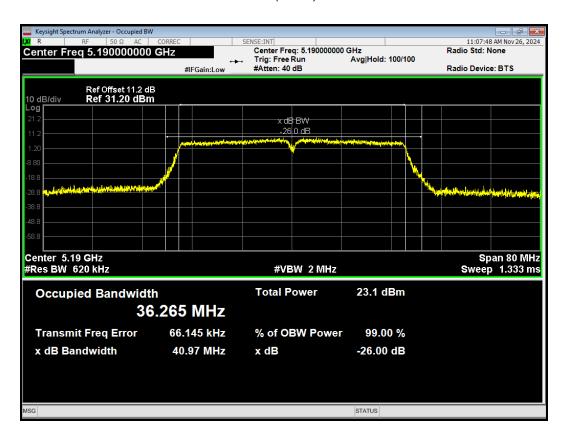
OBW 802.11n(HT20) 5240MHz



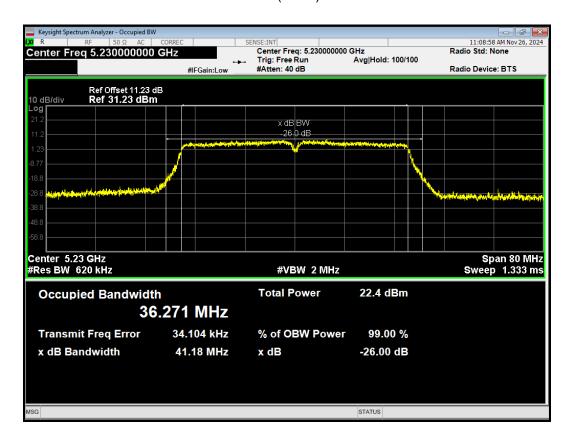
eurofins



OBW 802.11n(HT40) 5190MHz

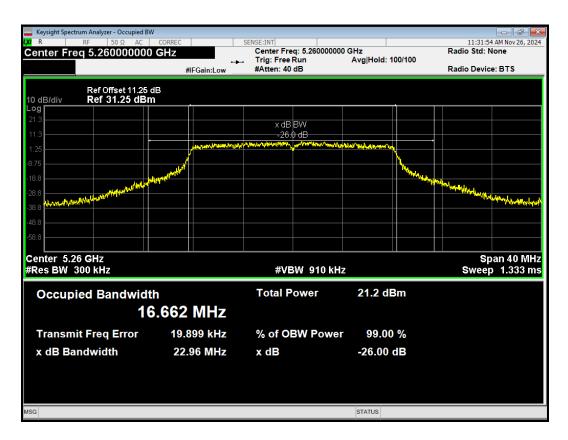


OBW 802.11n(HT40) 5230MHz

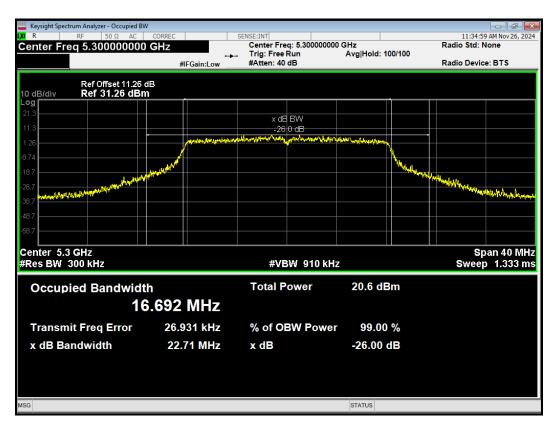


U-NII-2A

OBW 802.11a 5260MHz



OBW 802.11a 5300MHz



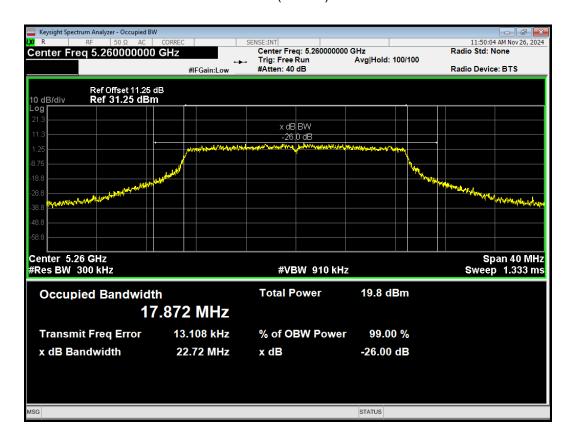


OBW 802.11a 5320MHz

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OBW 802.11ac(VHT20) 5260MHz





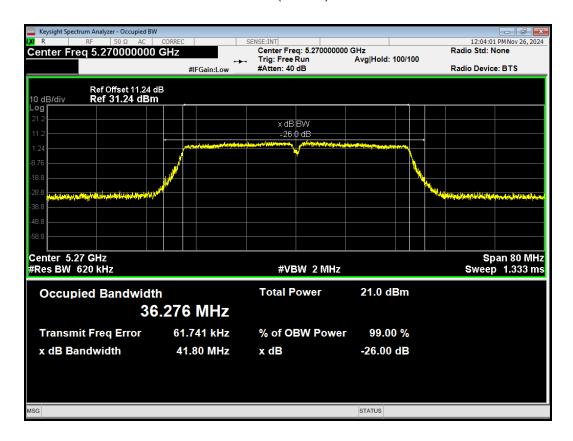
OBW 802.11ac(VHT20) 5300MHz



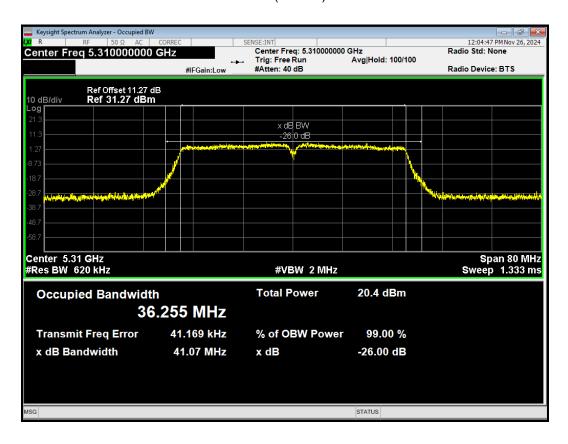
OBW 802.11ac(VHT20) 5320MHz



OBW 802.11ac(VHT40) 5270MHz



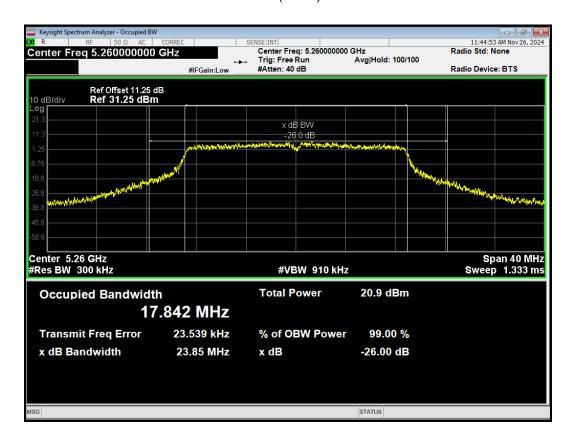
OBW 802.11ac(VHT40) 5310MHz



OBW 802.11ac(VHT80) 5290MHz



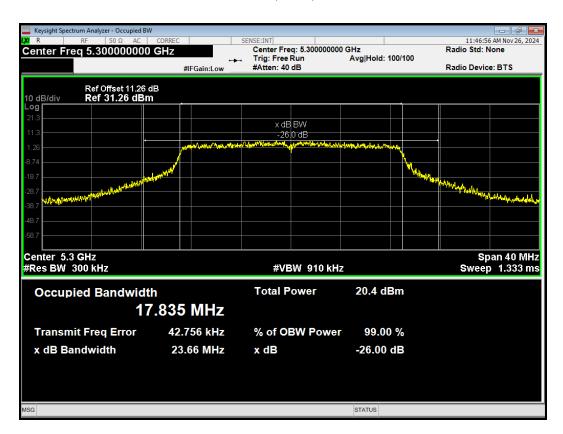
OBW 802.11n(HT20) 5260MHz



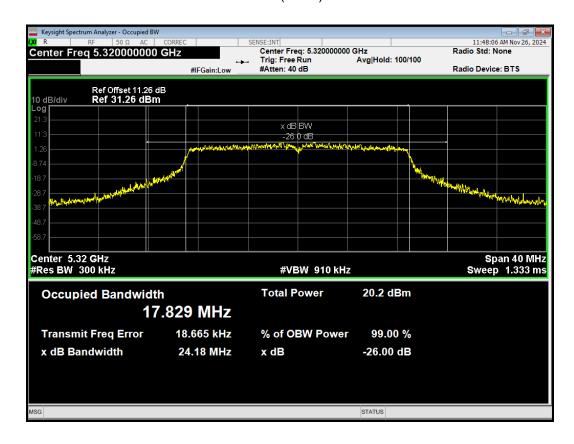


OBW 802.11n(HT20) 5300MHz

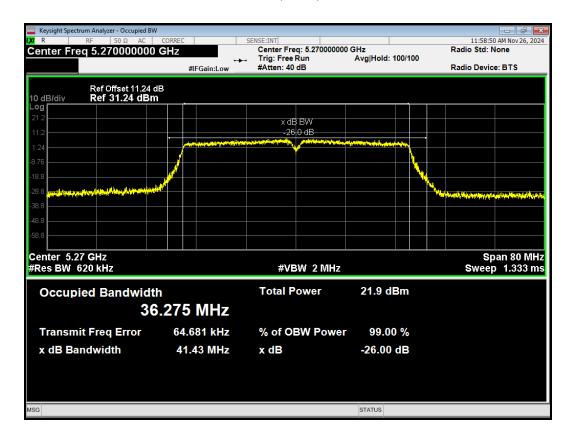
Report No.: R2411A1659-R4



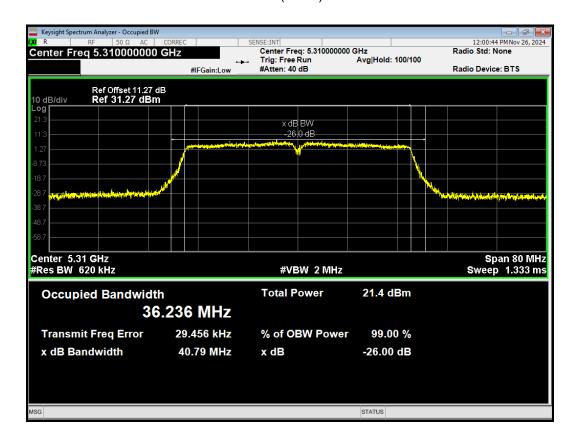
OBW 802.11n(HT20) 5320MHz



OBW 802.11n(HT40) 5270MHz

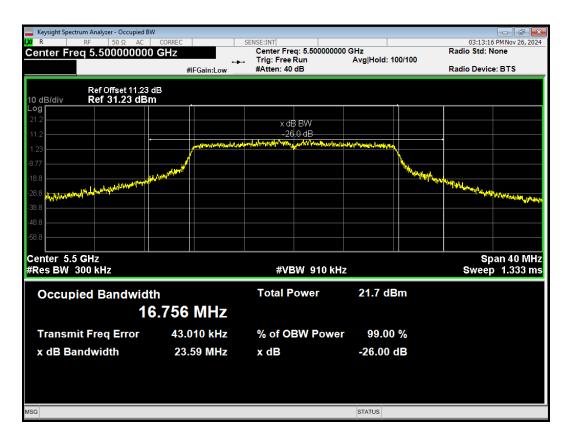


OBW 802.11n(HT40) 5310MHz

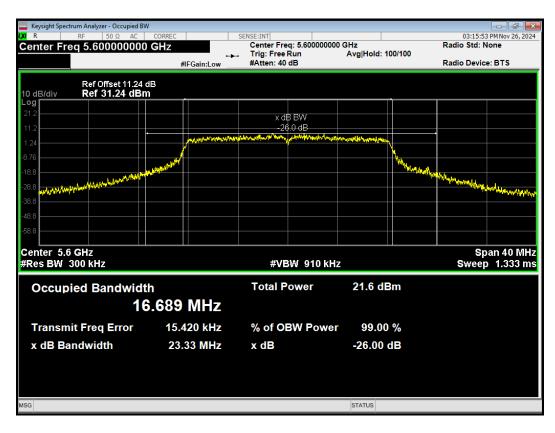


U-NII-2C

OBW 802.11a 5500MHz



OBW 802.11a 5600MHz



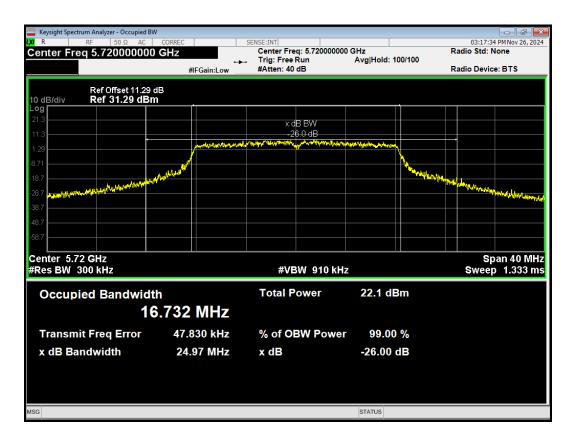


OBW 802.11a 5700MHz

Report No.: R2411A1659-R4

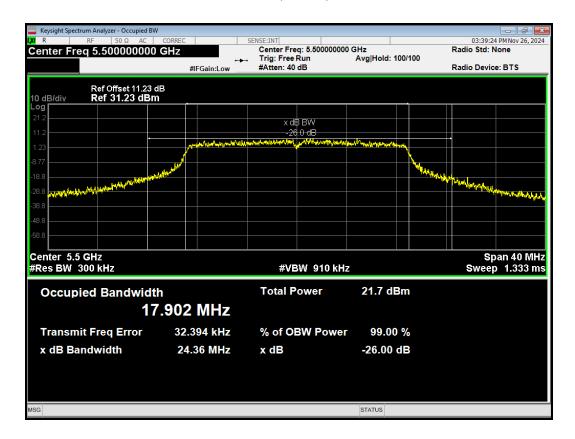


OBW 802.11a 5720MHz

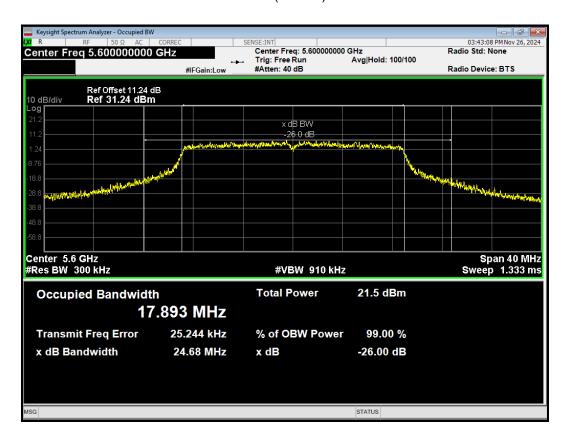




OBW 802.11ac(VHT20) 5500MHz

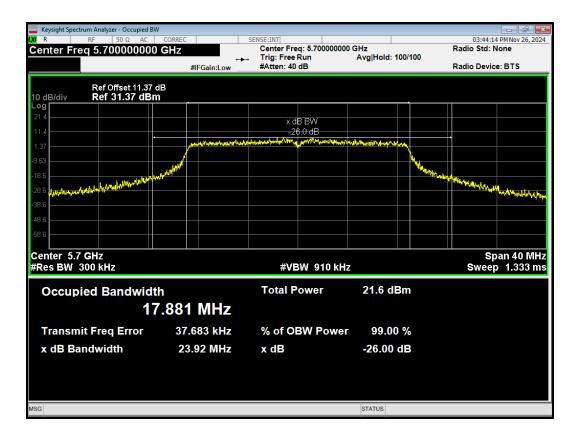


OBW 802.11ac(VHT20) 5600MHz

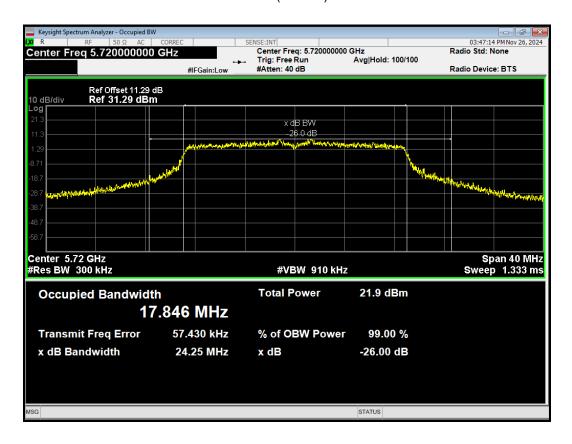




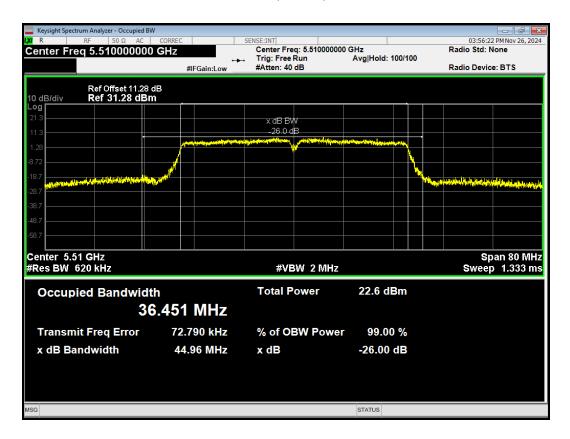
OBW 802.11ac(VHT20) 5700MHz



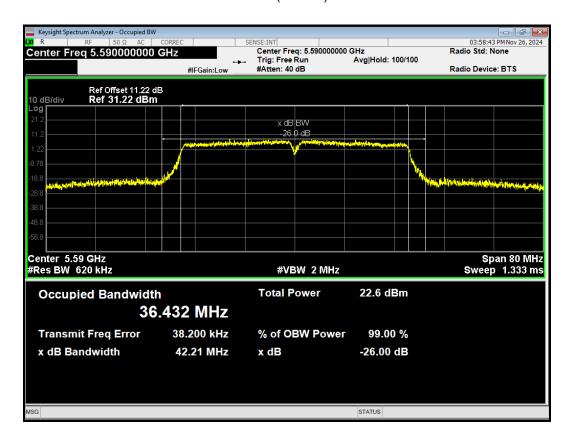
OBW 802.11ac(VHT20) 5720MHz



OBW 802.11ac(VHT40) 5510MHz

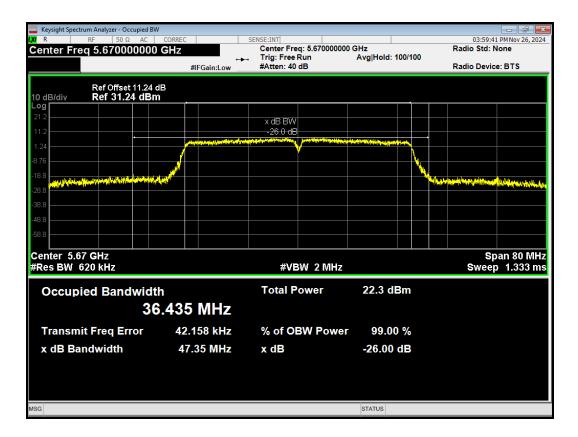


OBW 802.11ac(VHT40) 5590MHz

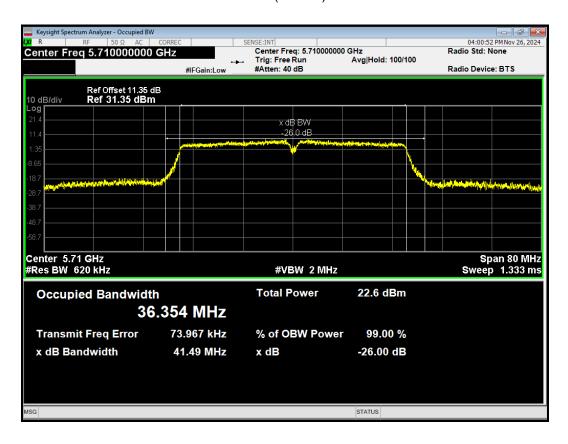




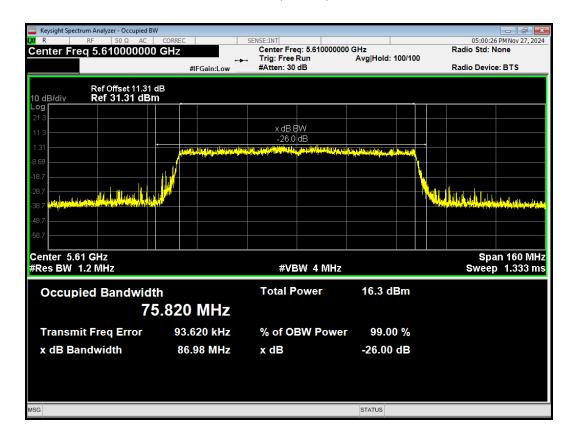
OBW 802.11ac(VHT40) 5670MHz



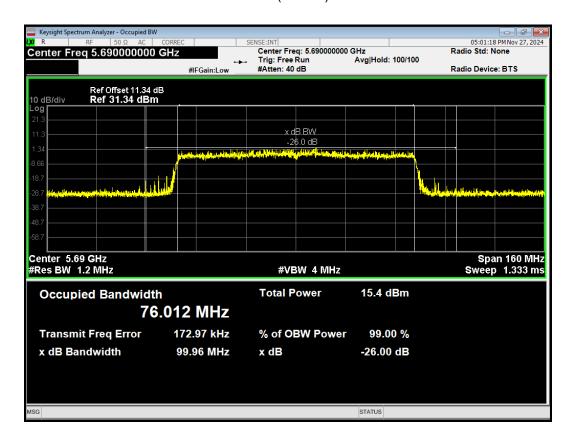
OBW 802.11ac(VHT40) 5710MHz



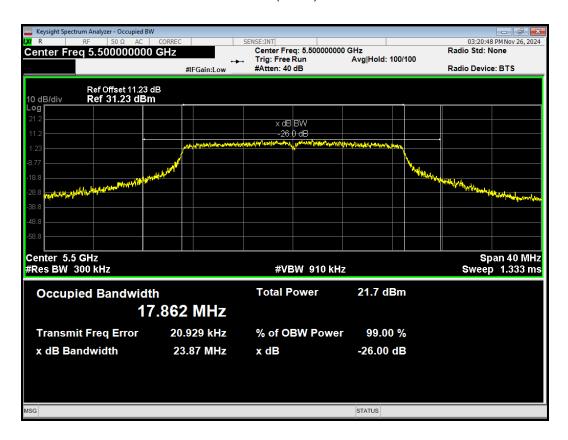
OBW 802.11ac(VHT80) 5610MHz



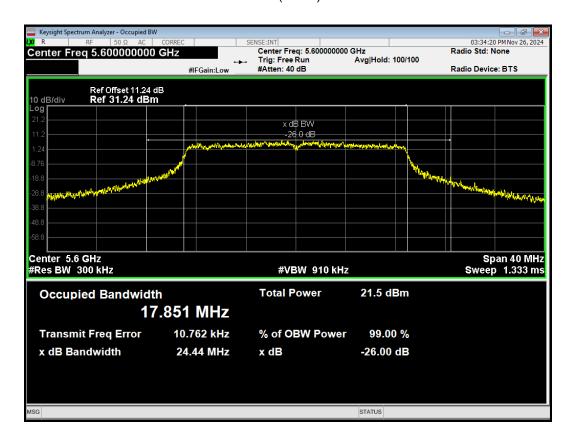
OBW 802.11ac(VHT80) 5690MHz



OBW 802.11n(HT20) 5500MHz



OBW 802.11n(HT20) 5600MHz



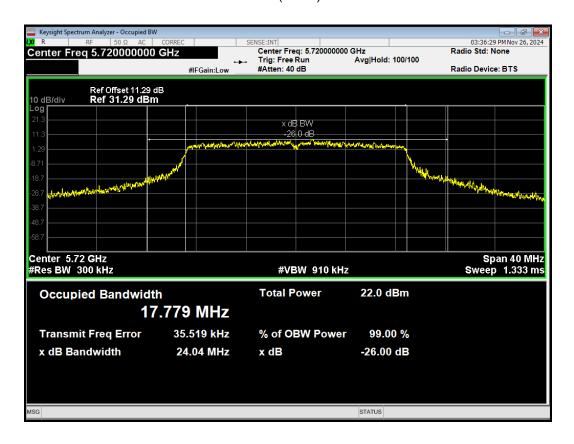


OBW 802.11n(HT20) 5700MHz

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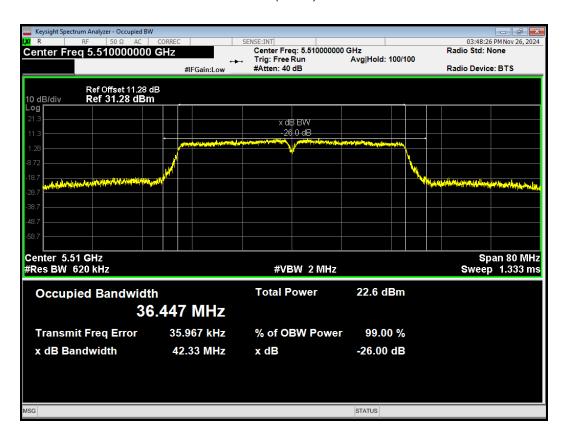
OBW 802.11n(HT20) 5720MHz



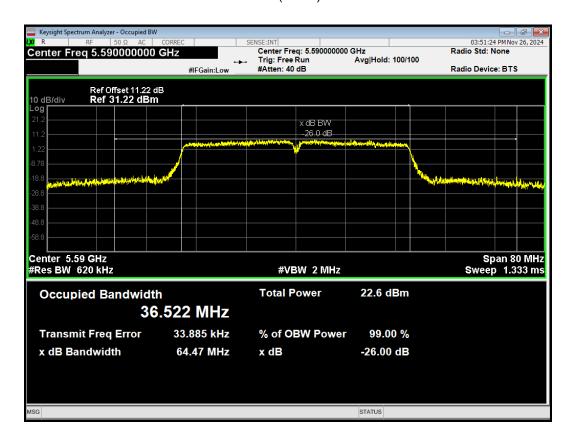


OBW 802.11n(HT40) 5510MHz

Report No.: R2411A1659-R4



OBW 802.11n(HT40) 5590MHz

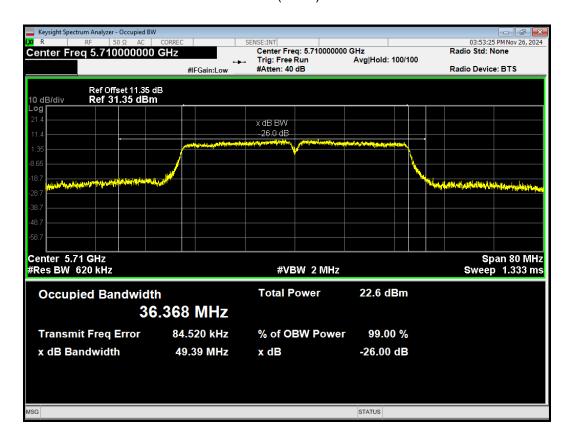




OBW 802.11n(HT40) 5670MHz

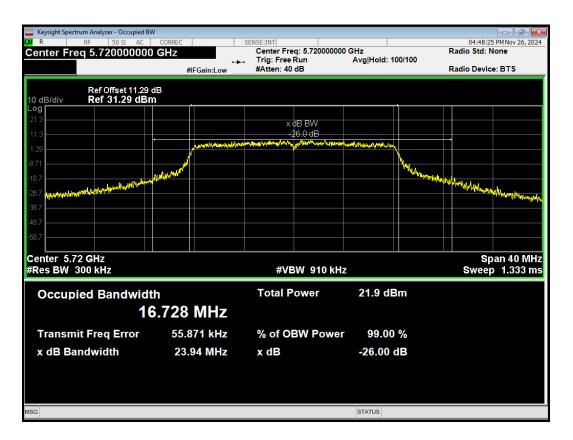


OBW 802.11n(HT40) 5710MHz



U-NII-3

OBW 802.11a 5720MHz



OBW 802.11a 5745MHz



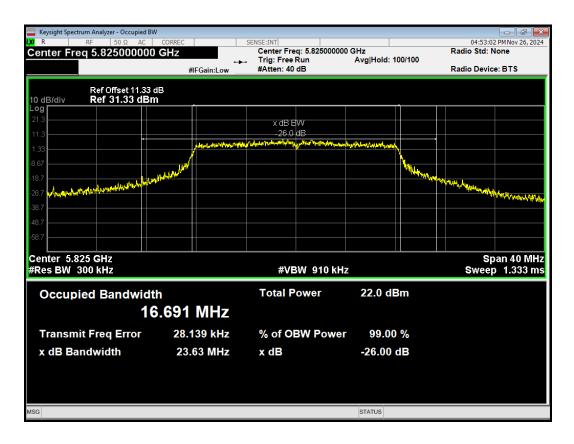


OBW 802.11a 5785MHz

Report No.: R2411A1659-R4



OBW 802.11a 5825MHz

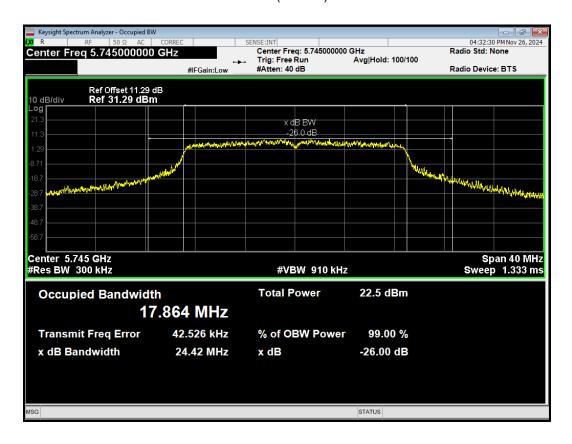




OBW 802.11ac(VHT20) 5720MHz



OBW 802.11ac(VHT20) 5745MHz

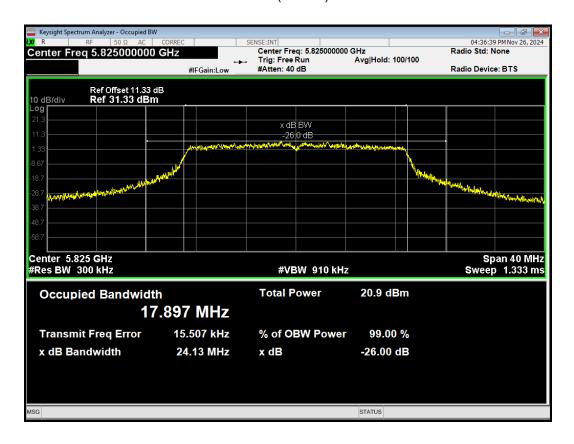




OBW 802.11ac(VHT20) 5785MHz

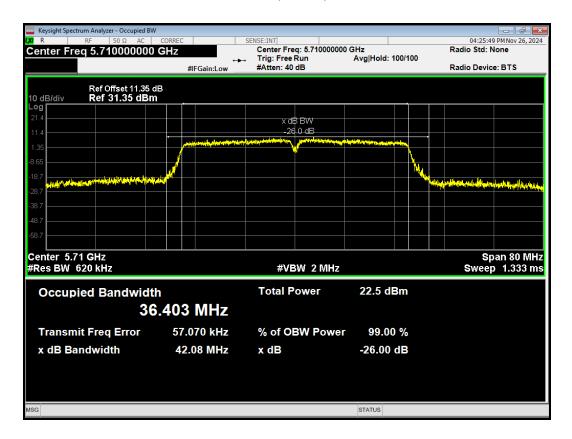


OBW 802.11ac(VHT20) 5825MHz

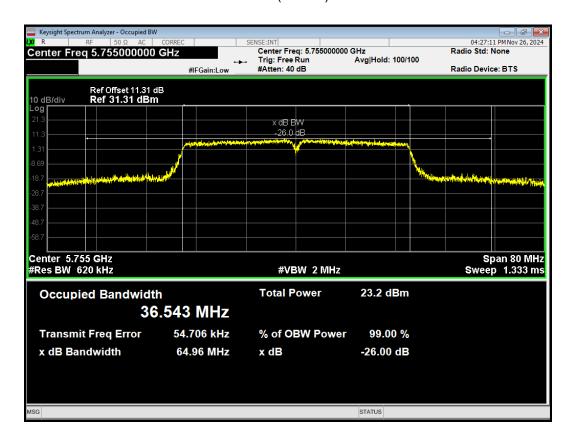




OBW 802.11ac(VHT40) 5710MHz

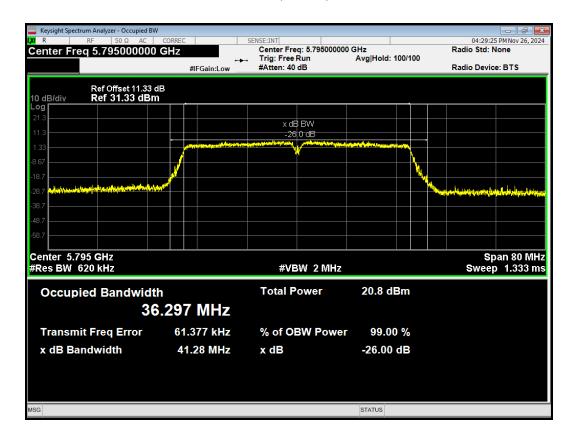


OBW 802.11ac(VHT40) 5755MHz

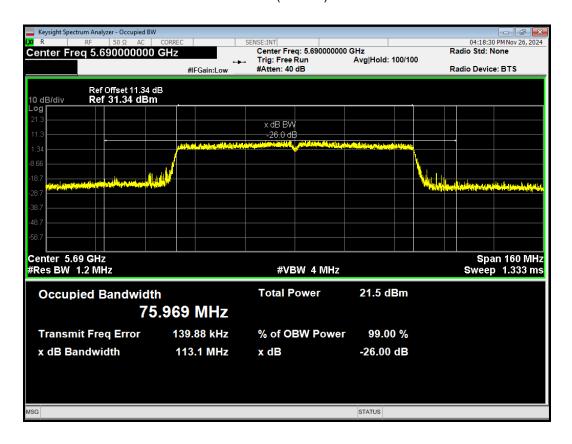




OBW 802.11ac(VHT40) 5795MHz

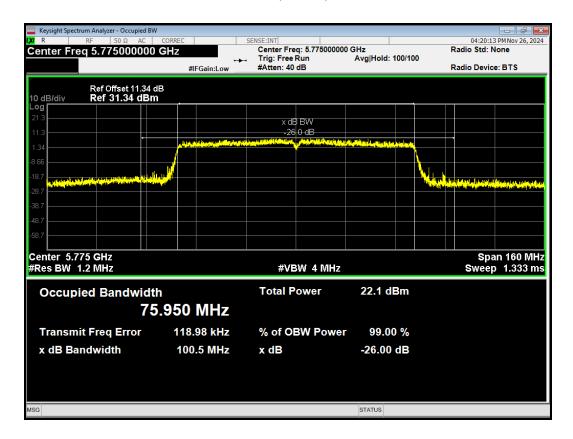


OBW 802.11ac(VHT80) 5690MHz

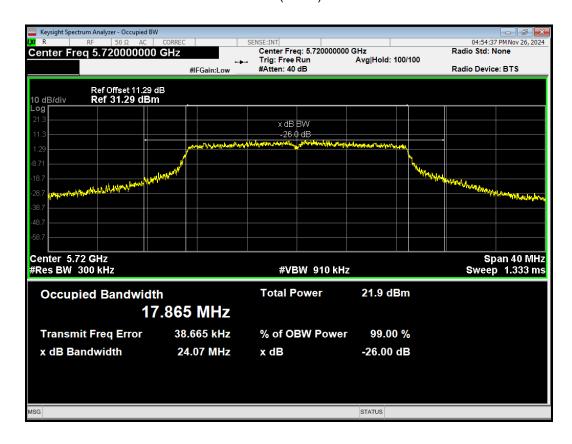




OBW 802.11ac(VHT80) 5775MHz



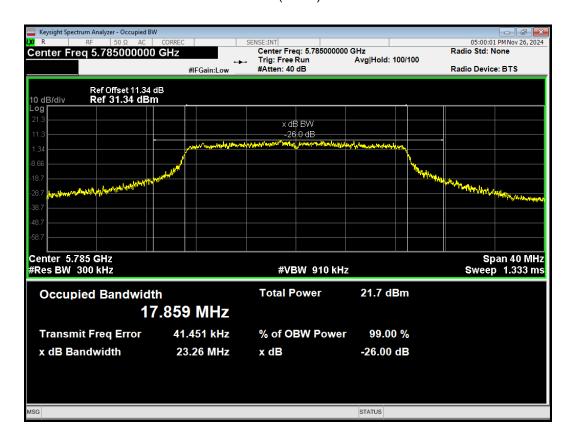
OBW 802.11n(HT20) 5720MHz



OBW 802.11n(HT20) 5745MHz

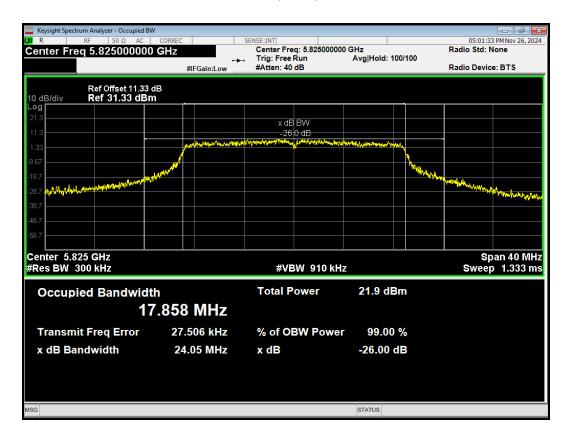


OBW 802.11n(HT20) 5785MHz

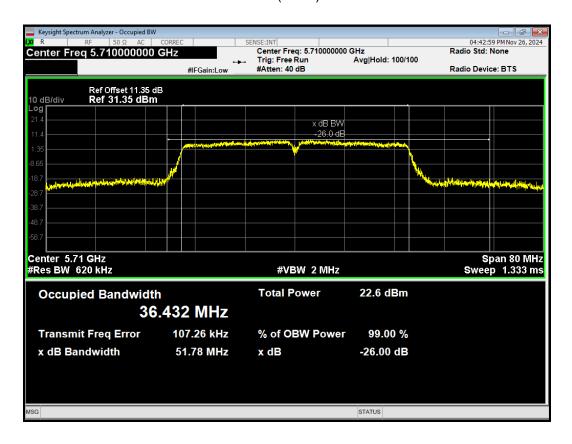




OBW 802.11n(HT20) 5825MHz



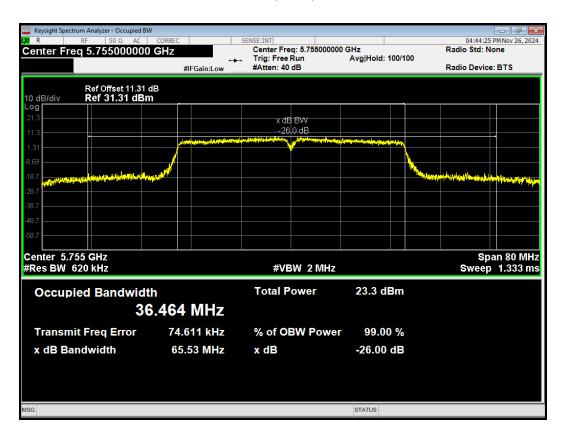
OBW 802.11n(HT40) 5710MHz



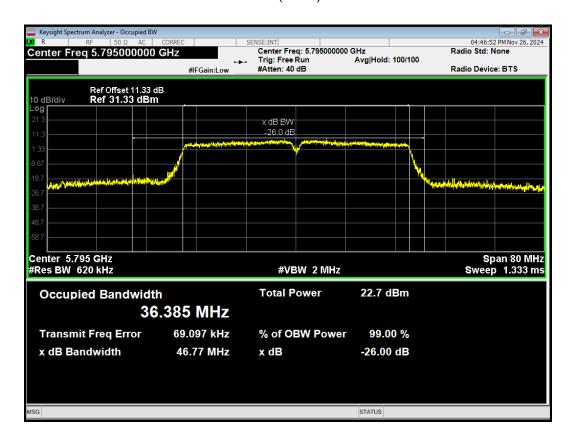


OBW 802.11n(HT40) 5755MHz

Report No.: R2411A1659-R4



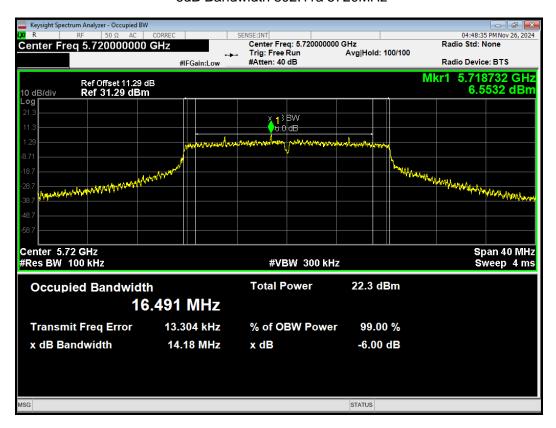
OBW 802.11n(HT40) 5795MHz



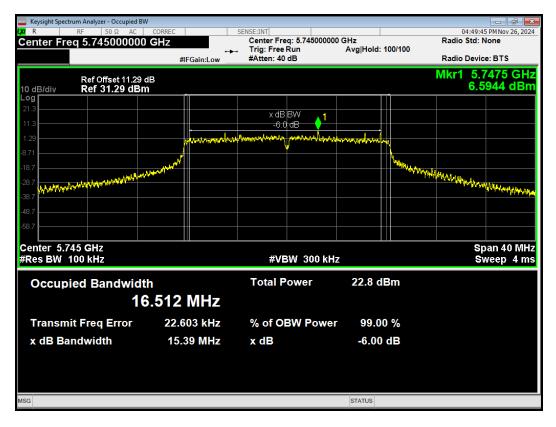
Report No.: R2411A1659-R4

Minimum 6 dB bandwidth U-NII-3

-6dB Bandwidth 802.11a 5720MHz



-6dB Bandwidth 802.11a 5745MHz





-6dB Bandwidth 802.11a 5785MHz

Report No.: R2411A1659-R4

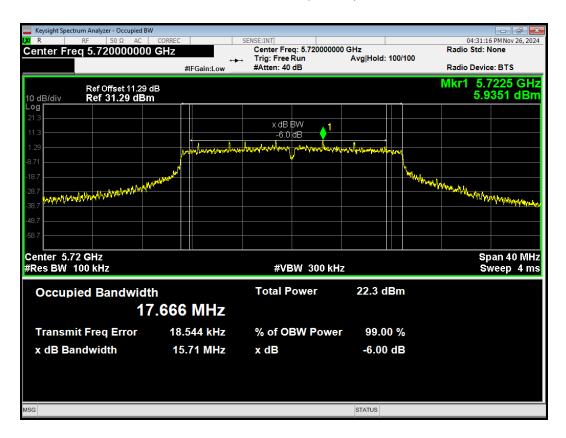


-6dB Bandwidth 802.11a 5825MHz

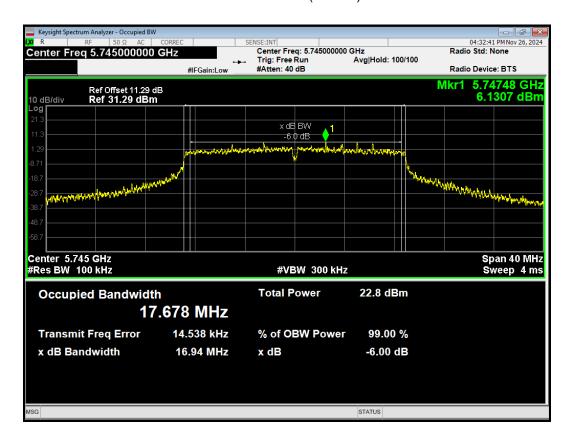




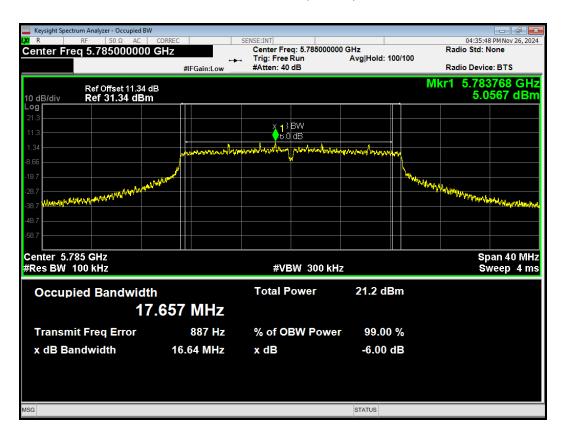
-6dB Bandwidth 802.11ac(VHT20) 5720MHz



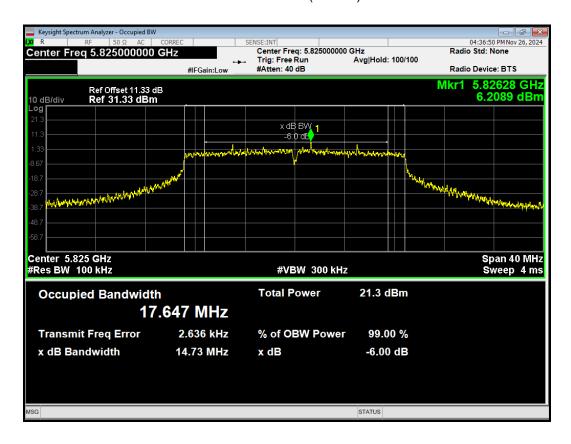
-6dB Bandwidth 802.11ac(VHT20) 5745MHz



-6dB Bandwidth 802.11ac(VHT20) 5785MHz

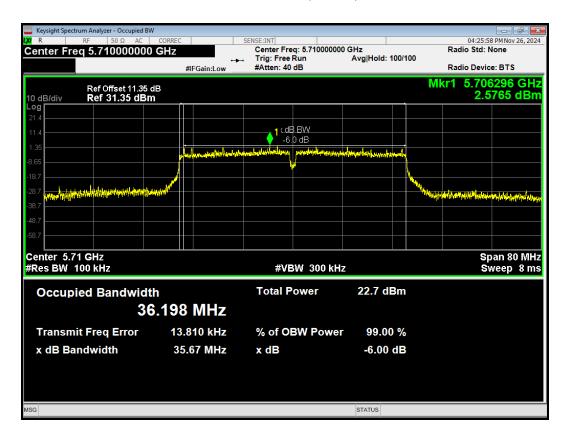


-6dB Bandwidth 802.11ac(VHT20) 5825MHz

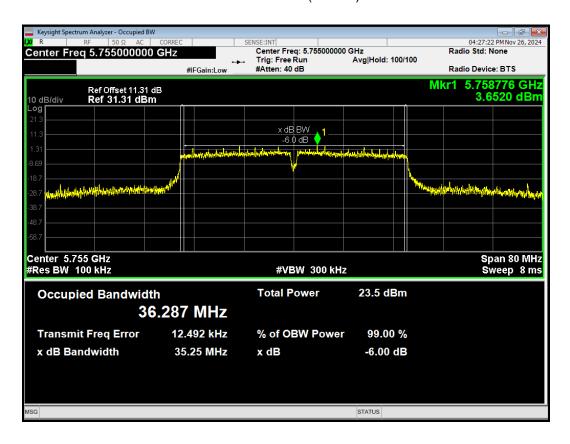




-6dB Bandwidth 802.11ac(VHT40) 5710MHz

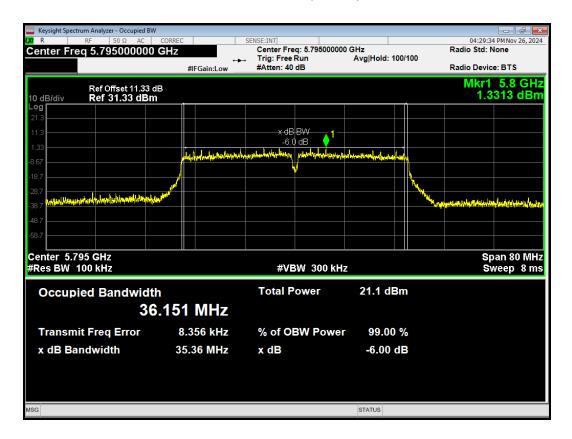


-6dB Bandwidth 802.11ac(VHT40) 5755MHz

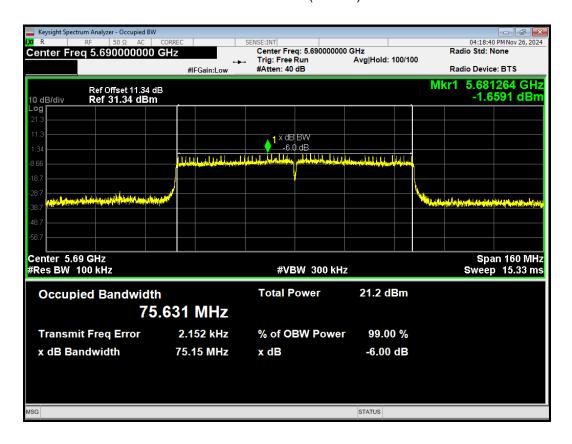


Report No.: R2411A1659-R4

-6dB Bandwidth 802.11ac(VHT40) 5795MHz



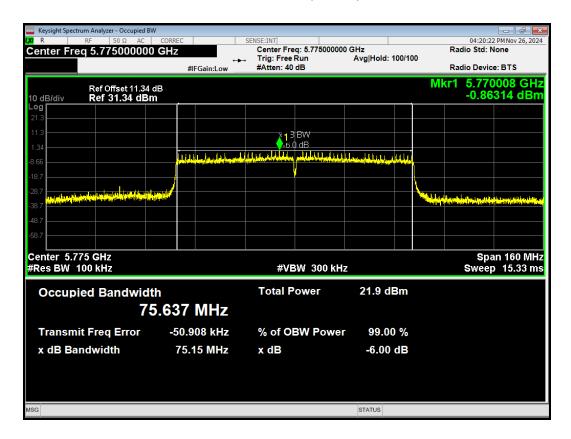
-6dB Bandwidth 802.11ac(VHT80) 5690MHz



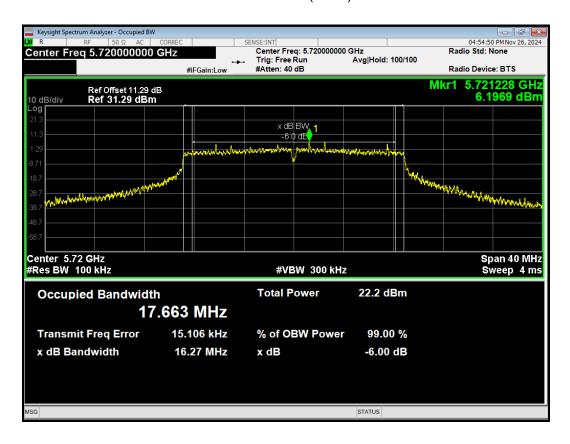
eurofins



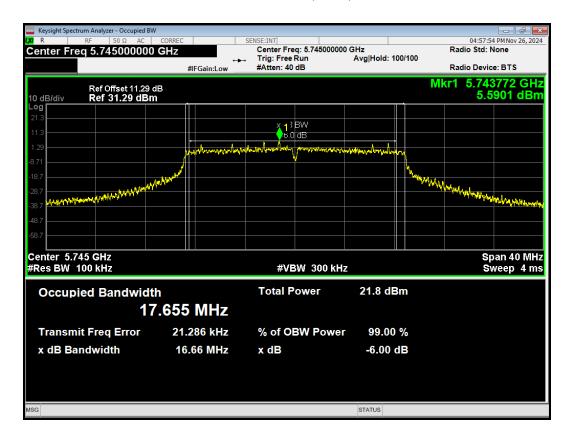
-6dB Bandwidth 802.11ac(VHT80) 5775MHz



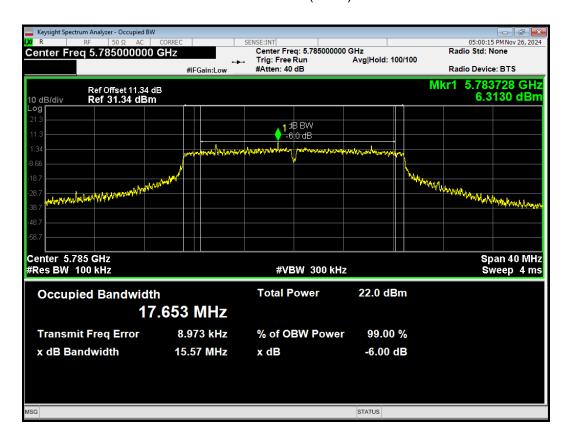
-6dB Bandwidth 802.11n(HT20) 5720MHz



-6dB Bandwidth 802.11n(HT20) 5745MHz



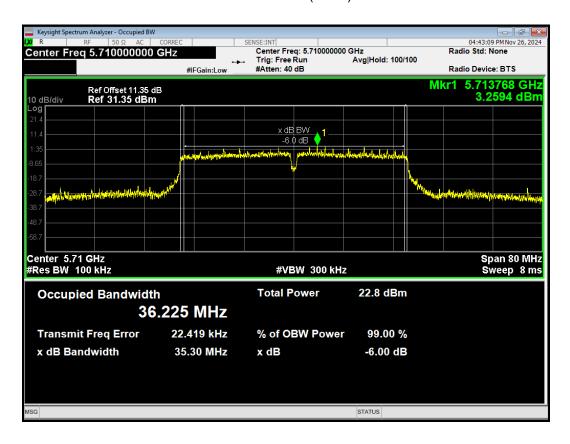
-6dB Bandwidth 802.11n(HT20) 5785MHz



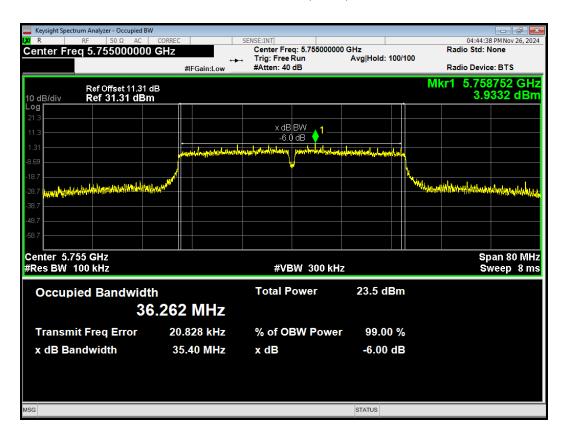
-6dB Bandwidth 802.11n(HT20) 5825MHz



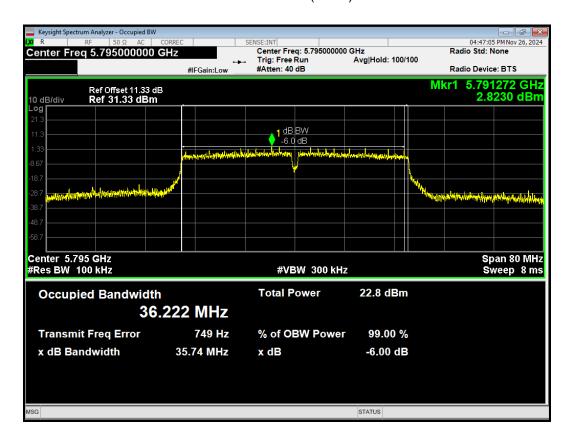
-6dB Bandwidth 802.11n(HT40) 5710MHz



-6dB Bandwidth 802.11n(HT40) 5755MHz



-6dB Bandwidth 802.11n(HT40) 5795MHz





RF Test Report No.: R2411A1659-R4

5.2. Average Power Output

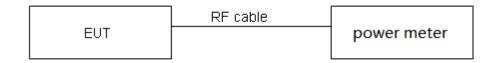
Ambient condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|------------------|
| 15°C ~ 35°C | 20% ~ 80% | 86 kPa ~ 106 kPa |

Methods of Measurement

During the process of the testing, The EUT was connected to the average power meter through an external attenuator and a known loss cable. The EUT is max power transmission with proper modulation. We use Maximum average Conducted Output Power Level Method in KDB789033 for this test

Test Setup



Limits

Rule FCC Part 15.407(a)(1) / FCC Part 15.407(a) (2) / FCC Part 15.407(a) (3)

- (1) For the band 5.15-5.25 GHz.
- (i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
- (ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude