



# FCC Test Report

**FCC ID** : Q9DAPEX0565567  
**Equipment** : Wireless Access Point  
**Brand Name** : aruba 、 Hewlett Packard Enterprise  
**Model Name** : APEX0565,APEX0567  
**Applicant** : Hewlett Packard Enterprise Company  
3333 Scott Blvd Santa Clara, CA. 95054  
**Manufacturer** : Hewlett Packard Enterprise Company  
3333 Scott Blvd Santa Clara, CA. 95054  
**Standard** : 47 CFR FCC Part 15.407

The product was received on Apr. 30, 2020, and testing was started from May 14, 2020 and completed on Jul. 21, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Allen Lin

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

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## History of this test report

[illegible]

## Summary of Test Result

| Report Clause | Ref. Std. Clause | Test Items                        | Result (PASS/FAIL) | Remark |
|---------------|------------------|-----------------------------------|--------------------|--------|
| 1.1.2         | 15.203           | Antenna Requirement               | PASS               | -      |
| 3.1           | 15.207           | AC Power-line Conducted Emissions | PASS               | -      |
| 3.2           | 15.407(a)        | Emission Bandwidth                | PASS               | -      |
| 3.3           | 15.407(a)        | Maximum Conducted Output Power    | PASS               | -      |
| 3.4           | 15.407(a)        | Peak Power Spectral Density       | PASS               | -      |
| 3.5           | 15.407(b)        | Unwanted Emissions                | PASS               | -      |

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and explanations:**

According to the applicant's requirements, The Beamforming Function refer as "Letter of Beamforming Declaration".

**Reviewed by: Sam Tsai**

**Report Producer: Jenny Yang**

# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

| Frequency Range (MHz) | IEEE Std. 802.11                       | Ch. Frequency (MHz) | Channel Number |
|-----------------------|----------------------------------------|---------------------|----------------|
| 5150-5250             | a, n (HT20), ac (VHT20),<br>ax (HEW20) | 5180-5240           | 36-48 [4]      |
| 5725-5850             |                                        | 5745-5825           | 149-165 [5]    |
| 5150-5250             | n (HT40), ac (VHT40),<br>ax (HEW40)    | 5190-5230           | 38-46 [2]      |
| 5725-5850             |                                        | 5755-5795           | 151-159 [2]    |
| 5150-5250             | ac (VHT80),<br>ax (HEW80)              | 5210                | 42 [1]         |
| 5725-5850             |                                        | 5775                | 155 [1]        |

| Band          | Mode           | BWch (MHz) | Nant |
|---------------|----------------|------------|------|
| 5.15-5.25GHz  | 802.11a        | 20         | 2TX  |
| 5.725-5.85GHz | 802.11a        | 20         | 2TX  |
| 5.15-5.25GHz  | 802.11n HT20   | 20         | 2TX  |
| 5.725-5.85GHz | 802.11n HT20   | 20         | 2TX  |
| 5.15-5.25GHz  | 802.11n HT40   | 40         | 2TX  |
| 5.725-5.85GHz | 802.11n HT40   | 40         | 2TX  |
| 5.15-5.25GHz  | 802.11ac VHT20 | 20         | 2TX  |
| 5.725-5.85GHz | 802.11ac VHT20 | 20         | 2TX  |
| 5.15-5.25GHz  | 802.11ac VHT40 | 40         | 2TX  |
| 5.725-5.85GHz | 802.11ac VHT40 | 40         | 2TX  |
| 5.15-5.25GHz  | 802.11ac VHT80 | 80         | 2TX  |
| 5.725-5.85GHz | 802.11ac VHT80 | 80         | 2TX  |
| 5.15-5.25GHz  | 802.11ax HEW20 | 20         | 2TX  |
| 5.725-5.85GHz | 802.11ax HEW20 | 20         | 2TX  |
| 5.15-5.25GHz  | 802.11ax HEW40 | 40         | 2TX  |
| 5.725-5.85GHz | 802.11ax HEW40 | 40         | 2TX  |
| 5.15-5.25GHz  | 802.11ax HEW80 | 80         | 2TX  |
| 5.725-5.85GHz | 802.11ax HEW80 | 80         | 2TX  |

**Note:**

- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40, VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ HEW20, HEW40, HEW80 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM,

1024QAM modulation.

- ♦ BWch is the nominal channel bandwidth.
- ♦ The resource unit of HEW 20, HEW 40, HEW 80 only support full loading.

### 1.1.2 Antenna Information

#### Sample 1

| Ant. | Brand           | Model Name | Antenna Type                | Connector   |
|------|-----------------|------------|-----------------------------|-------------|
| 1    | HL Technologies | N/A        | Dipole<br>(omnidirectional) | MMCX        |
| 2    | HL Technologies | N/A        | Dipole<br>(omnidirectional) | MMCX        |
| 3    | HL Technologies | N/A        | PIFA                        | Mini Murata |

| Ant. | Gain (dBi)         |                      |                    |                      |         |         |
|------|--------------------|----------------------|--------------------|----------------------|---------|---------|
|      | 2.4G               |                      | 5G                 |                      | BT      | Zigbee  |
|      | Vertical polarized | Horizontal polarized | Vertical polarized | Horizontal polarized |         |         |
| 1    | -                  | 3.2 dBi              | -                  | 5.4 dBi              | -       | -       |
| 2    | 3.2 dBi            | -                    | 5.4 dBi            | -                    | -       | -       |
| 3    | -                  | -                    | -                  | -                    | 3.3 dBi | 3.3 dBi |

#### Sample 2

| Ant. | Brand                                                         | Model Name | Antenna Type            | Connector   |
|------|---------------------------------------------------------------|------------|-------------------------|-------------|
| 4    | Shanghai Amphenol Airwave Communication Electronics Co., Ltd. | N/A        | Dipole<br>(directivity) | MMCX        |
| 5    | Shanghai Amphenol Airwave Communication Electronics Co., Ltd. | N/A        | Dipole<br>(directivity) | MMCX        |
| 6    | Shanghai Amphenol Airwave Communication Electronics Co., Ltd. | N/A        | monopole                | Mini Murata |

| Ant. | Gain (dBi) |            |            |            |       |        |
|------|------------|------------|------------|------------|-------|--------|
|      | 2.4G       |            | 5G         |            | BT    | Zigbee |
|      | +45 degree | -45 degree | +45 degree | -45 degree |       |        |
| 4    | -          | 6.8 dBi    | -          | 7.1 dBi    | -     | -      |
| 5    | 6.8 dBi    | -          | 7.1 dBi    | -          | -     | -      |
| 6    | -          | -          | -          | -          | 3 dBi | 3 dBi  |

| Ant. | Elevation angle above 30 degrees Gain (dBi) |  |
|------|---------------------------------------------|--|
|      | 5G                                          |  |
|      |                                             |  |
| 1~2  | 3.3                                         |  |
| 4~5  | 7.1                                         |  |

Note 1: The EUT has six antennas.

Note 2: The antenna for each mode is cross polarized.

**For 2.4GHz function:**

For IEEE 802.11 b/g/n/ax mode (2TX/2RX)

Ant. 1 (Ant. 4) and Ant. 2 (Ant. 5) could transmit/receive simultaneously.

Cross-polarized antenna combination is Ant. 1 (Ant. 4) and Ant. 2 (Ant. 5).

**For BT function:**

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Only Ant. 3 (Ant. 6) can be used as transmitting/receiving antenna.

**For 5GHz function:**

For IEEE 802.11 a/n/ac/ax mode (2TX/2RX)

Ant. 1 (Ant. 4) and Ant. 2 (Ant. 5) could transmit/receive simultaneously.

Cross-polarized antenna combination is Ant. 1 (Ant. 4) and Ant. 2 (Ant. 5).

**For Zigbee function:**

Only Ant. 3 (Ant. 6) can be used as transmitting/receiving antenna.

### 1.1.3 EUT Information

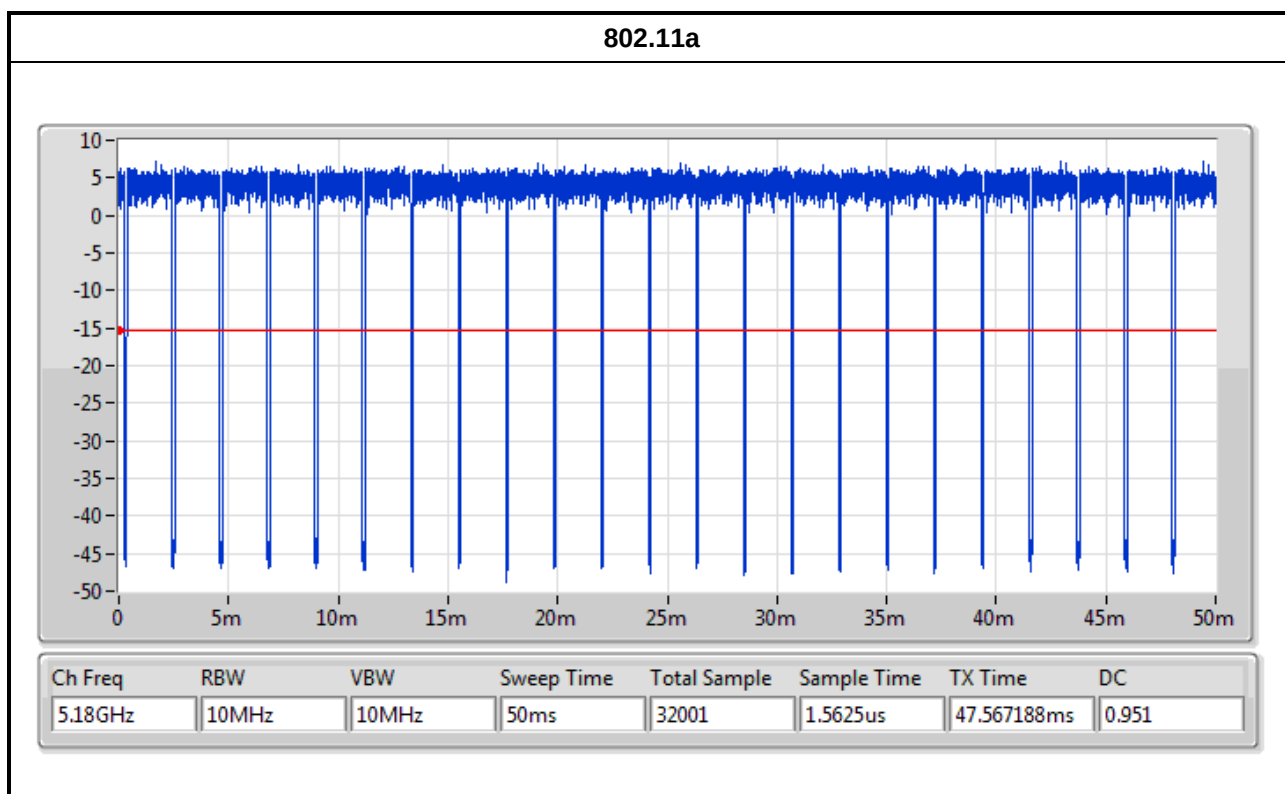
| Identify EUT                        |                                                                               |                  |                                     |                       |
|-------------------------------------|-------------------------------------------------------------------------------|------------------|-------------------------------------|-----------------------|
| FW Version                          | RVAB-A65 V1.0                                                                 |                  |                                     |                       |
| Operational Condition               |                                                                               |                  |                                     |                       |
| EUT Power Type                      | From PoE                                                                      |                  |                                     |                       |
| EUT Function                        | <input checked="" type="checkbox"/>                                           | Outdoor AP       | <input checked="" type="checkbox"/> | Indoor AP             |
|                                     | <input type="checkbox"/>                                                      | Fixed P2P AP     | <input type="checkbox"/>            | Outdoor/Indoor Client |
| Beamforming Function                | <input checked="" type="checkbox"/>                                           | With beamforming | <input type="checkbox"/>            | Without beamforming   |
| Type of EUT                         |                                                                               |                  |                                     |                       |
| <input checked="" type="checkbox"/> | Stand-alone                                                                   |                  |                                     |                       |
| <input type="checkbox"/>            | Combined (EUT where the radio part is fully integrated within another device) |                  |                                     |                       |
|                                     | Combined Equipment - Brand Name / Model No.:                                  |                  | ...                                 |                       |
| <input type="checkbox"/>            | Plug-in radio (EUT intended for a variety of host systems)                    |                  |                                     |                       |
|                                     | Host System - Brand Name / Model No.:                                         |                  |                                     |                       |
| <input type="checkbox"/>            | Other:                                                                        |                  |                                     |                       |

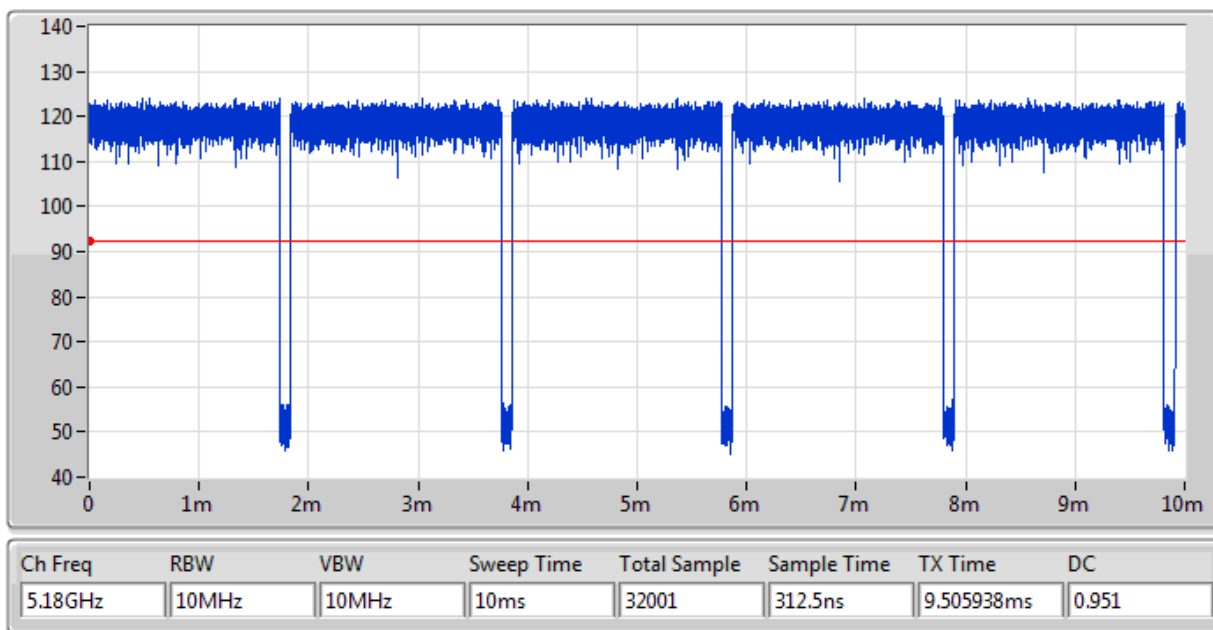
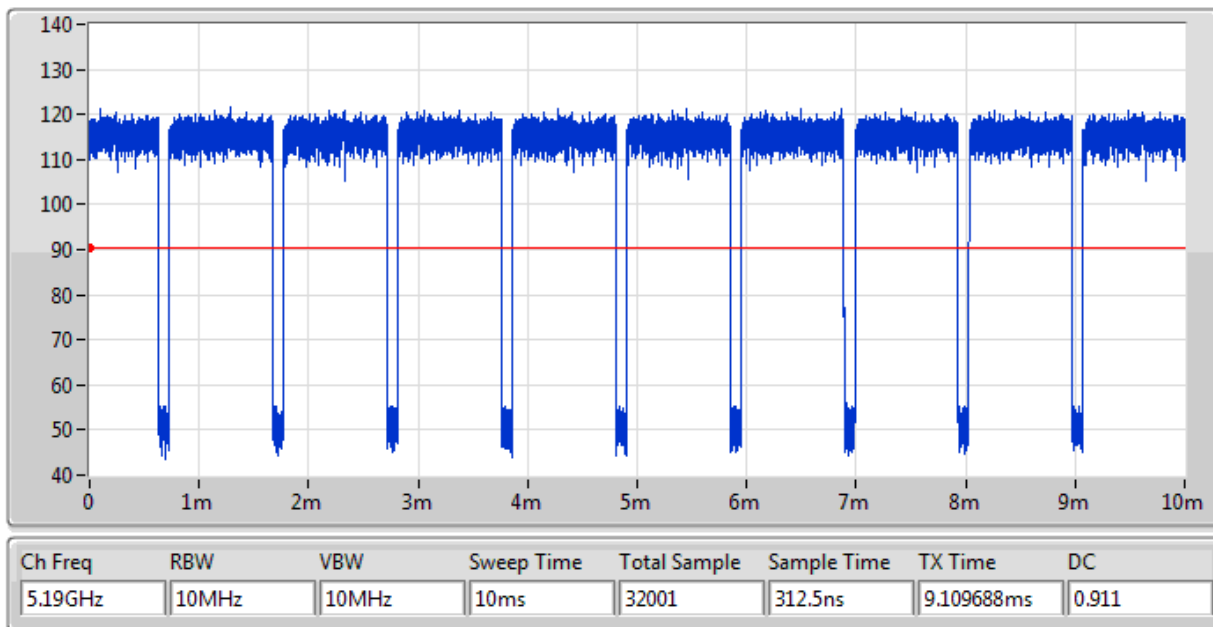
### 1.1.4 Mode Test Duty Cycle

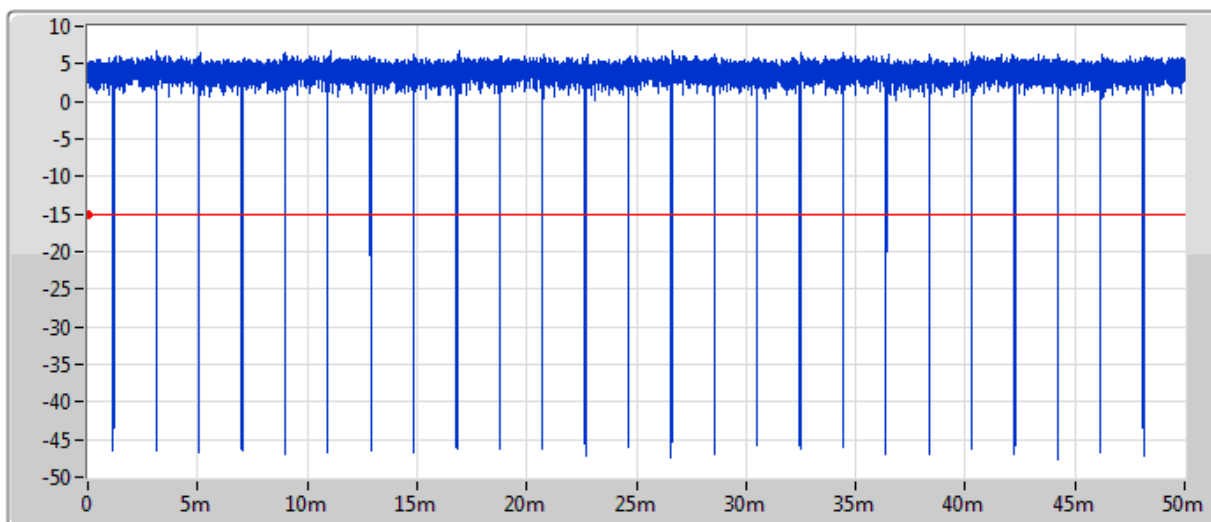
#### Sample 1

| Mode                           | DC    | DCF(dB) | T(s)     | VBW(Hz) $\geq$ 1/T |
|--------------------------------|-------|---------|----------|--------------------|
| 802.11a_Nss1,(6Mbps)_2TX       | 0.951 | 0.22    | 2.066m   | 1k                 |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 0.951 | 0.22    | 1.921m   | 1k                 |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 0.911 | 0.4     | 944.375u | 3k                 |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 0.986 | 0.06    | 1.93m    | 10                 |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 0.972 | 0.12    | 954.688u | 3k                 |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 0.943 | 0.25    | 462.5u   | 3k                 |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 0.98  | 0.09    | 1.489m   | 10                 |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 0.963 | 0.16    | 775u     | 3k                 |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 0.929 | 0.32    | 403.125u | 3k                 |

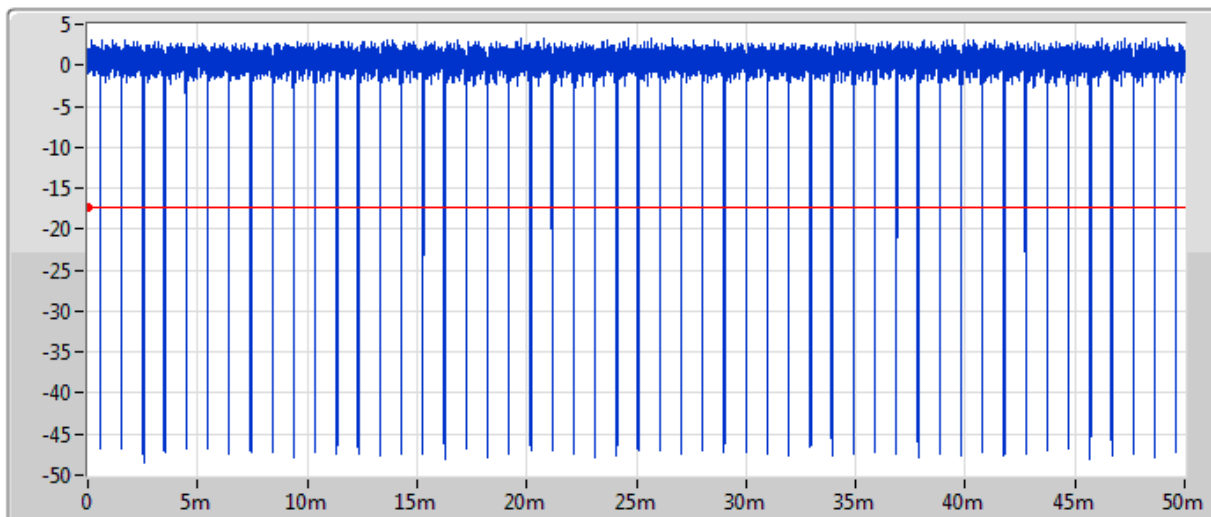
Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.



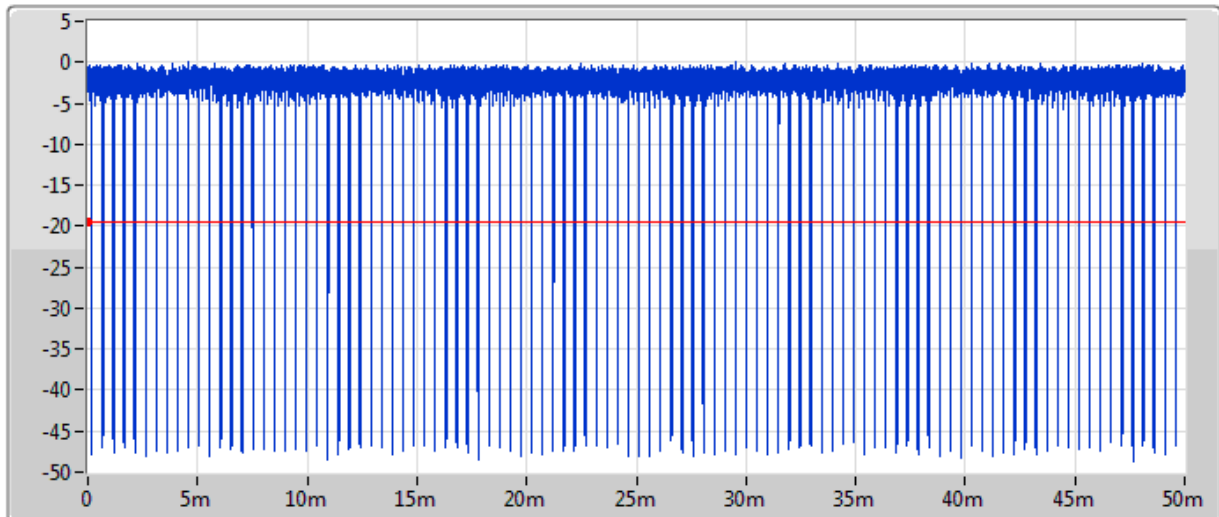
**802.11n HT20**

**802.11n HT40**


**802.11ac VHT20**


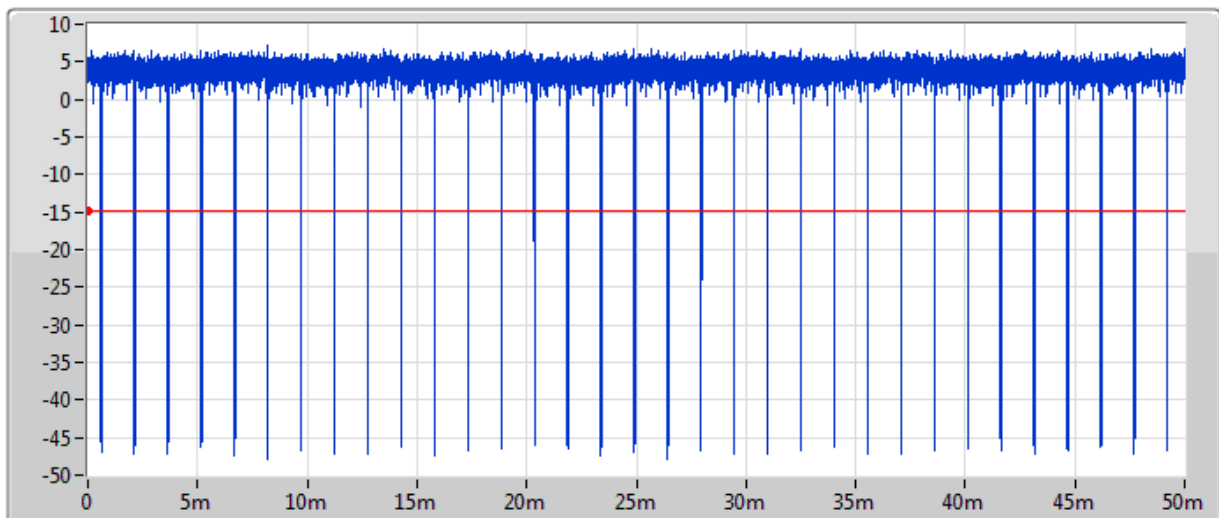
| Ch Freq | RBW   | VBW   | Sweep Time | Total Sample | Sample Time | TX Time     | DC    |
|---------|-------|-------|------------|--------------|-------------|-------------|-------|
| 5.18GHz | 10MHz | 10MHz | 50ms       | 32001        | 1.5625us    | 49.307812ms | 0.986 |

**802.11ac VHT40**


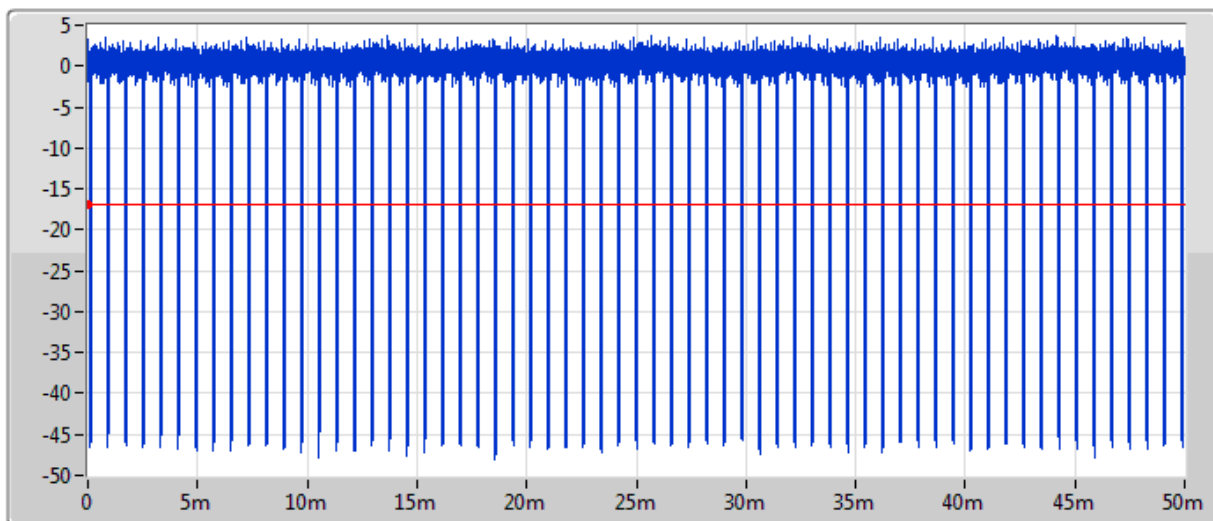
| Ch Freq | RBW   | VBW   | Sweep Time | Total Sample | Sample Time | TX Time     | DC    |
|---------|-------|-------|------------|--------------|-------------|-------------|-------|
| 5.19GHz | 10MHz | 10MHz | 50ms       | 32001        | 1.5625us    | 48.579688ms | 0.972 |

**802.11ac VHT80**


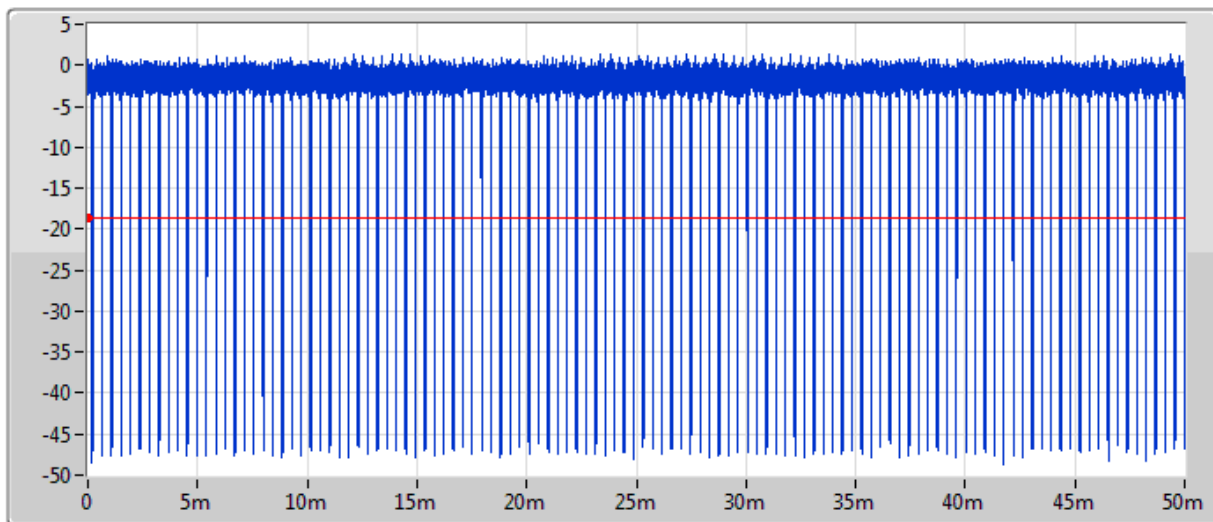
| Ch Freq | RBW   | VBW   | Sweep Time | Total Sample | Sample Time | TX Time  | DC    |
|---------|-------|-------|------------|--------------|-------------|----------|-------|
| 5.21GHz | 10MHz | 10MHz | 50ms       | 32001        | 1.5625us    | 47.175ms | 0.943 |

**802.11ax HEW20**


| Ch Freq | RBW   | VBW   | Sweep Time | Total Sample | Sample Time | TX Time     | DC   |
|---------|-------|-------|------------|--------------|-------------|-------------|------|
| 5.18GHz | 10MHz | 10MHz | 50ms       | 32001        | 1.5625us    | 49.001563ms | 0.98 |

**802.11ax HEW40**


| Ch Freq | RBW   | VBW   | Sweep Time | Total Sample | Sample Time | TX Time     | DC    |
|---------|-------|-------|------------|--------------|-------------|-------------|-------|
| 5.18GHz | 10MHz | 10MHz | 50ms       | 32001        | 1.5625us    | 48.145313ms | 0.963 |

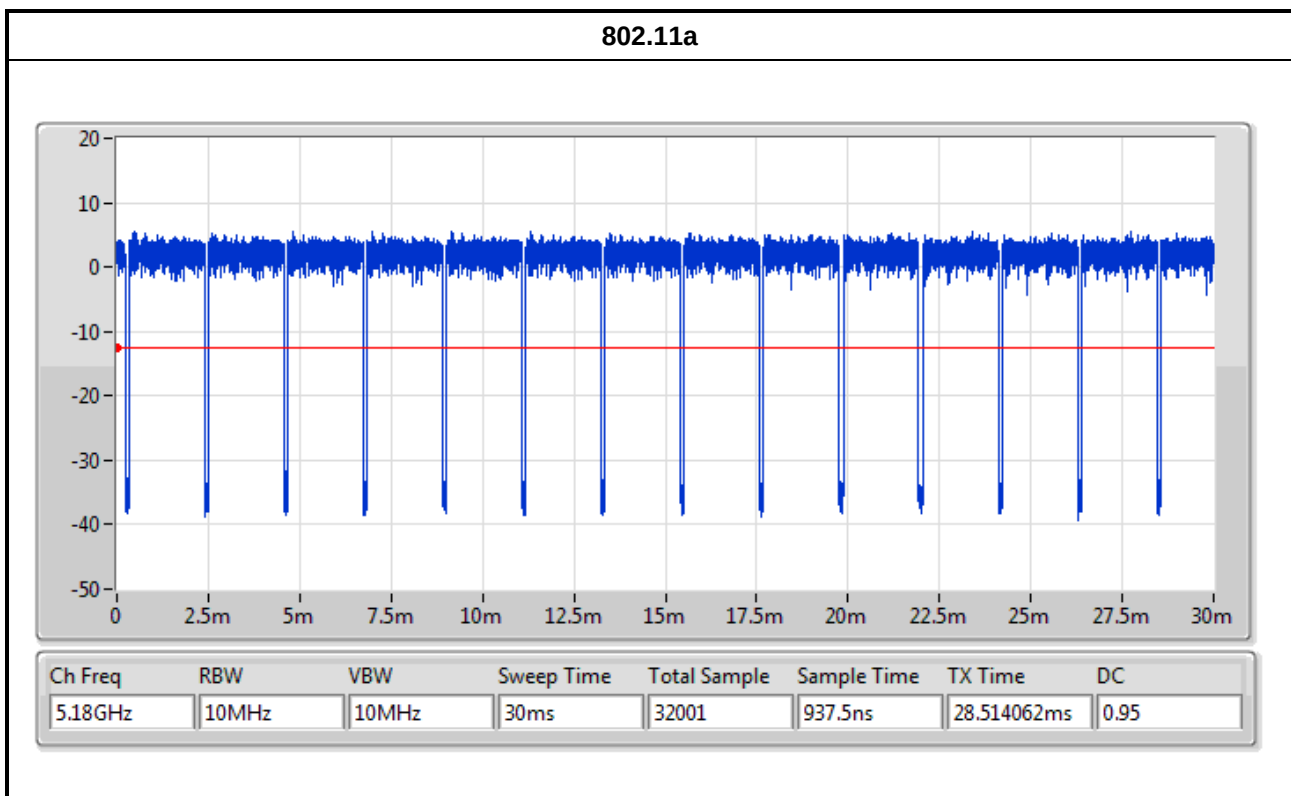
**802.11ax HEW80**


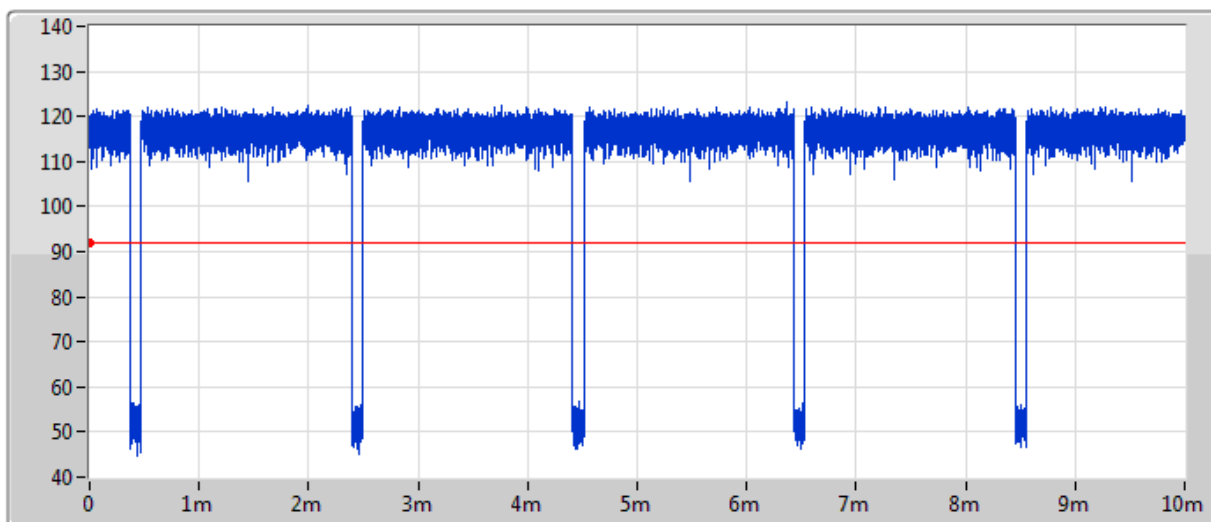
| Ch Freq | RBW   | VBW   | Sweep Time | Total Sample | Sample Time | TX Time     | DC    |
|---------|-------|-------|------------|--------------|-------------|-------------|-------|
| 5.21GHz | 10MHz | 10MHz | 50ms       | 32001        | 1.5625us    | 46.464063ms | 0.929 |

**Sample 2**

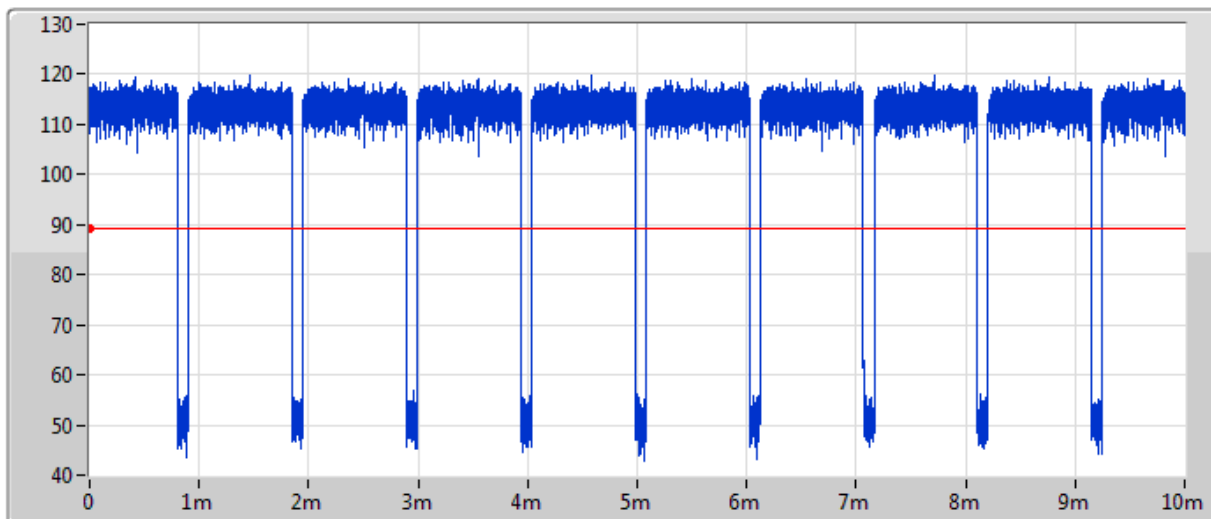
| Mode                           | DC    | DCF(dB) | T(s)     | VBW(Hz) $\geq$ 1/T |
|--------------------------------|-------|---------|----------|--------------------|
| 802.11a_Nss1,(6Mbps)_2TX       | 0.95  | 0.22    | 2.065m   | 1k                 |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 0.95  | 0.22    | 1.92m    | 1k                 |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 0.911 | 0.4     | 944.375u | 3k                 |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 0.985 | 0.07    | 1.929m   | 10                 |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 0.971 | 0.13    | 953.437u | 3k                 |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 0.942 | 0.26    | 461.25u  | 3k                 |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 0.979 | 0.09    | 1.489m   | 1k                 |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 0.962 | 0.16    | 773.437u | 3k                 |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 0.927 | 0.32    | 402.187u | 3k                 |

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

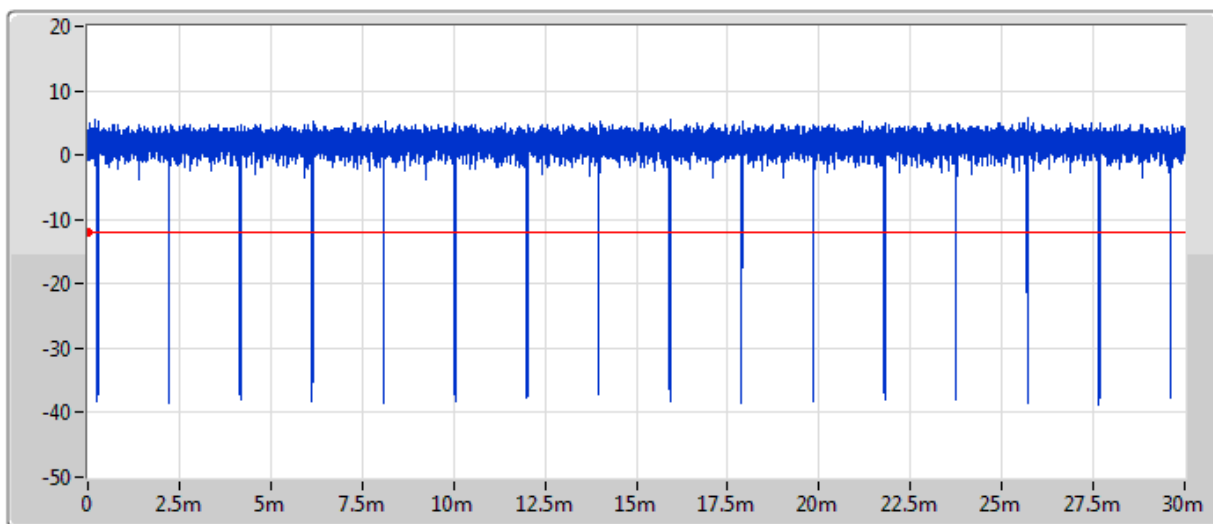


**802.11n HT20**


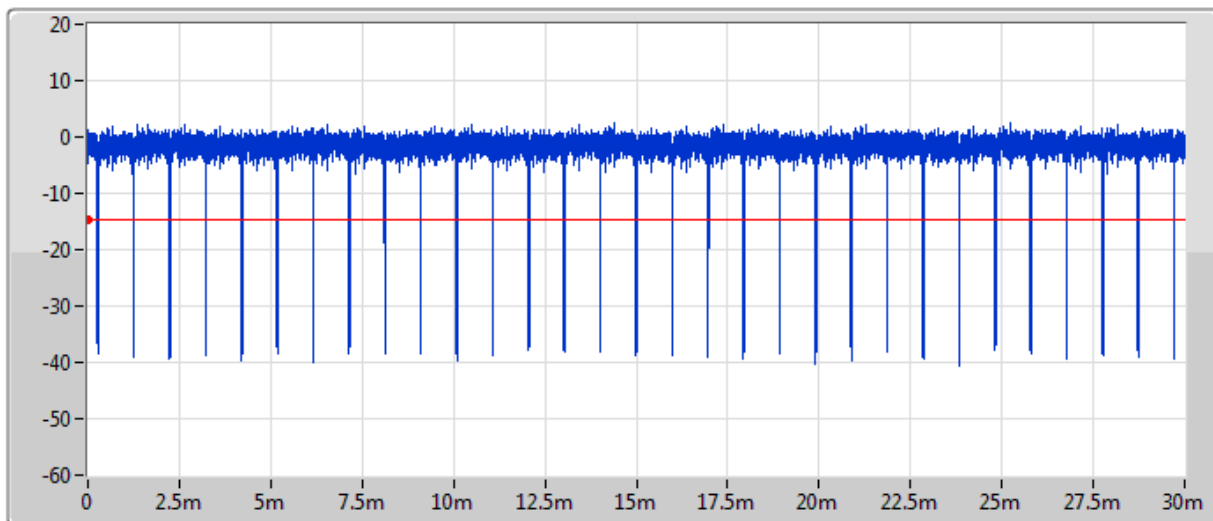
| Ch Freq | RBW   | VBW   | Sweep Time | Total Sample | Sample Time | TX Time | DC   |
|---------|-------|-------|------------|--------------|-------------|---------|------|
| 5.18GHz | 10MHz | 10MHz | 10ms       | 32001        | 312.5ns     | 9.505ms | 0.95 |

**802.11n HT40**


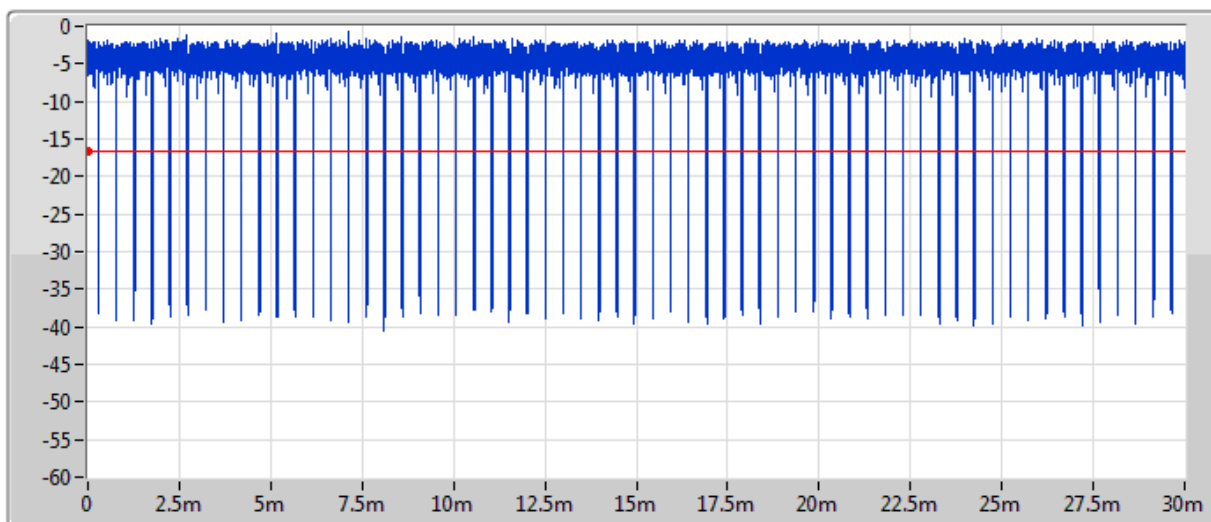
| Ch Freq | RBW   | VBW   | Sweep Time | Total Sample | Sample Time | TX Time | DC    |
|---------|-------|-------|------------|--------------|-------------|---------|-------|
| 5.19GHz | 10MHz | 10MHz | 10ms       | 32001        | 312.5ns     | 9.11ms  | 0.911 |

**802.11ac VHT20**


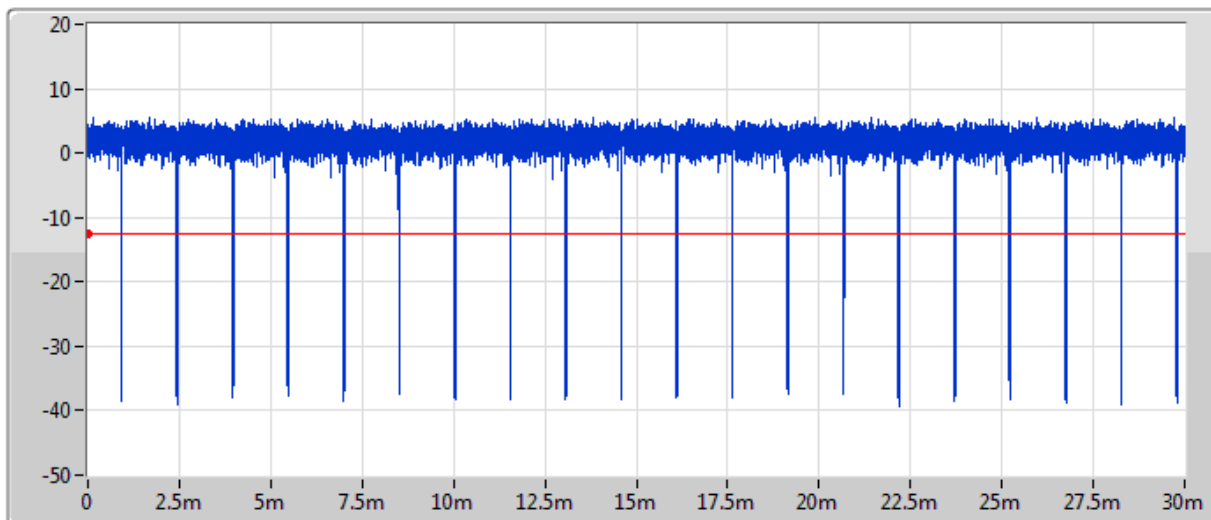
| Ch Freq | RBW   | VBW   | Sweep Time | Total Sample | Sample Time | TX Time     | DC    |
|---------|-------|-------|------------|--------------|-------------|-------------|-------|
| 5.18GHz | 10MHz | 10MHz | 30ms       | 32001        | 937.5ns     | 29.544375ms | 0.985 |

**802.11ac VHT40**


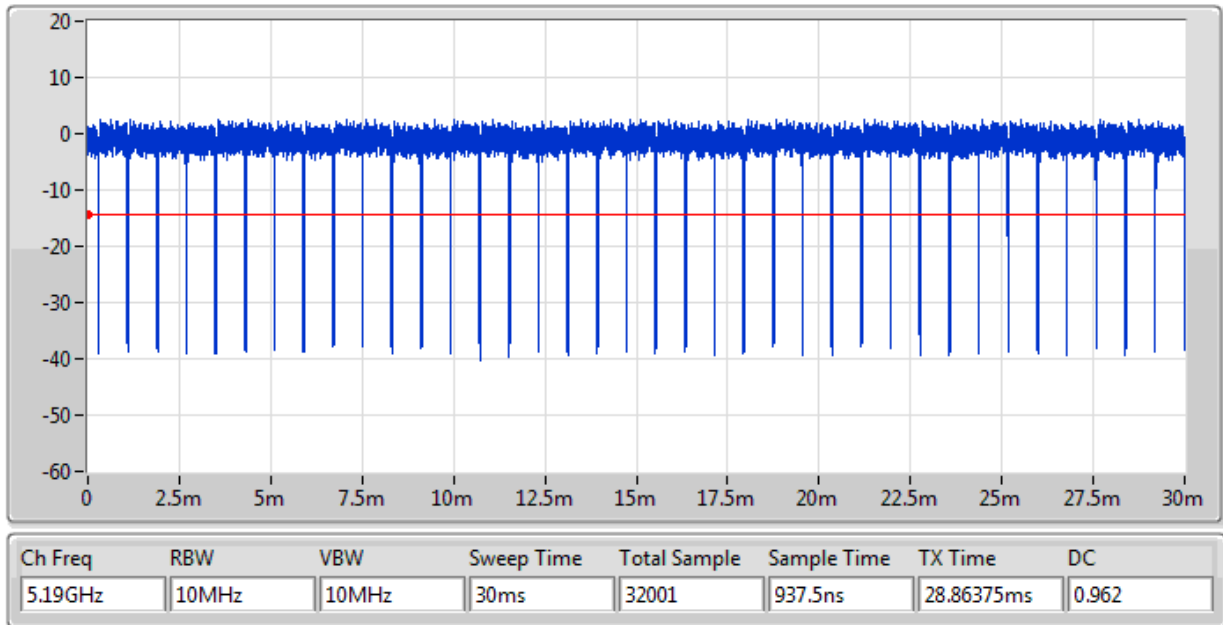
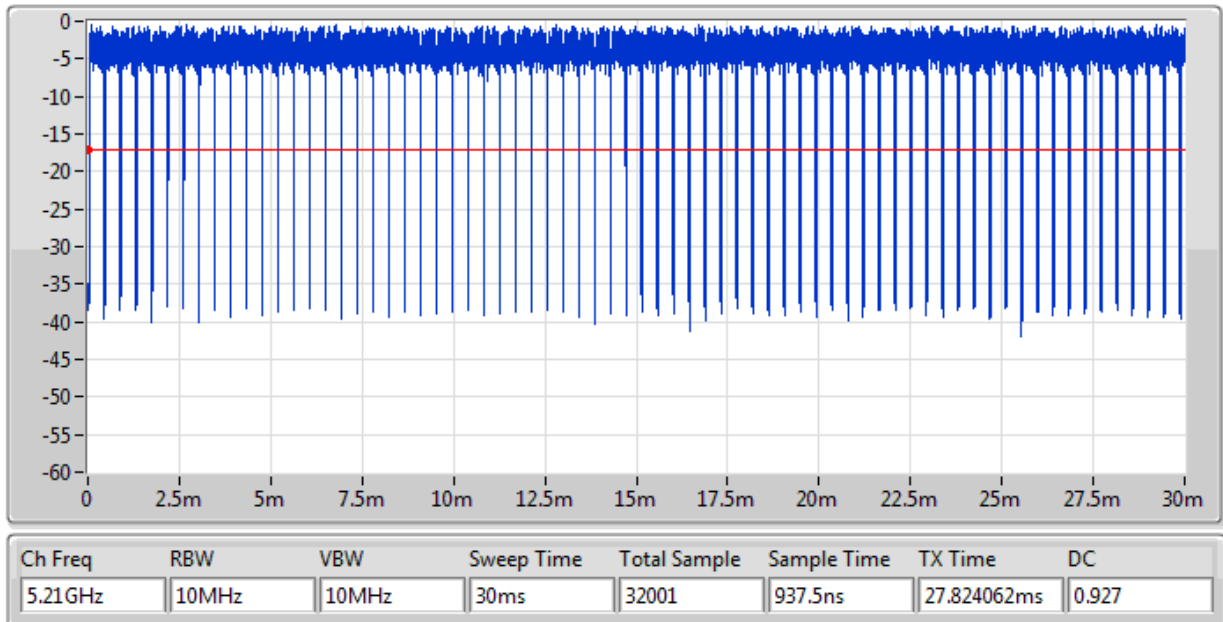
| Ch Freq | RBW   | VBW   | Sweep Time | Total Sample | Sample Time | TX Time     | DC    |
|---------|-------|-------|------------|--------------|-------------|-------------|-------|
| 5.19GHz | 10MHz | 10MHz | 30ms       | 32001        | 937.5ns     | 29.116875ms | 0.971 |

**802.11ac VHT80**


| Ch Freq | RBW   | VBW   | Sweep Time | Total Sample | Sample Time | TX Time     | DC    |
|---------|-------|-------|------------|--------------|-------------|-------------|-------|
| 5.21GHz | 10MHz | 10MHz | 30ms       | 32001        | 937.5ns     | 28.274062ms | 0.942 |

**802.11ax HEW20**


| Ch Freq | RBW   | VBW   | Sweep Time | Total Sample | Sample Time | TX Time    | DC    |
|---------|-------|-------|------------|--------------|-------------|------------|-------|
| 5.18GHz | 10MHz | 10MHz | 30ms       | 32001        | 937.5ns     | 29.38125ms | 0.979 |

**802.11ax HEW40**

**802.11ax HEW80**


### 1.1.5 Table for Multiple Listing

| Sample Number | Model Name | Description                                                                                                                                                  |
|---------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1             | APEX0565   | There are two Samples for EUT. The only difference between Sample 1 and Sample 2 is the Antenna. For detailed specifications, please refer to section 1.1.2. |
| 2             | APEX0567   |                                                                                                                                                              |

## 1.2 Testing Applied Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013
- ♦ KDB 789033 D02 v02r01

The following reference test guidance is not within the scope of accreditation of TAF:

- ♦ KDB 662911 D01 v02r01
- ♦ KDB 414788 D01 v01r01

## 1.3 Testing Location Information

| Testing Location                           |          |                                                                                       |                      |
|--------------------------------------------|----------|---------------------------------------------------------------------------------------|----------------------|
| <input checked="" type="checkbox"/>        | HWA YA   | ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)             |                      |
|                                            |          | TEL : 886-3-327-3456                                                                  | FAX : 886-3-327-0973 |
| Test site Designation No. TW1190 with FCC. |          |                                                                                       |                      |
| <input type="checkbox"/>                   | JHUBEI   | ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)          |                      |
|                                            |          | TEL : 886-3-656-9065                                                                  | FAX : 886-3-656-9085 |
| Test site Designation No. TW0006 with FCC. |          |                                                                                       |                      |
| <input checked="" type="checkbox"/>        | Wen Shan | ADD : No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) |                      |
|                                            |          | TEL : 886-3-318-0787                                                                  | FAX : 886-3-318-0287 |
| Test site Designation No. TW1097 with FCC. |          |                                                                                       |                      |

| Test Condition | Test Site No. | Test Engineer | Test Environment      | Test Date                   |
|----------------|---------------|---------------|-----------------------|-----------------------------|
| AC Conduction  | CO04-HY       | Edward Wang   | 21.4~23.2°C / 52~ 57% | 03/Jun/2020~<br>04/Jun/2020 |
| RF Conducted   | TH01-HY       | Barry Hsiao   | 22.1~25.9°C / 54~60%  | 15/May/2020~<br>30/Jun/2020 |
| Radiated       | 03CH09-HY     | Daniel Hsu    | 22.3~23.7°C / 53~ 59% | 14/May/2020~<br>21/Jul/2020 |

## 1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

| Test Items                           | Uncertainty | Remark                   |
|--------------------------------------|-------------|--------------------------|
| Conducted Emission (150kHz ~ 30MHz)  | 0.9 dB      | Confidence levels of 95% |
| Radiated Emission (9kHz ~ 30MHz)     | 2.4 dB      | Confidence levels of 95% |
| Radiated Emission (30MHz ~ 1,000MHz) | 3.7 dB      | Confidence levels of 95% |
| Radiated Emission (1GHz ~ 18GHz)     | 3.6 dB      | Confidence levels of 95% |
| Radiated Emission (18GHz ~ 40GHz)    | 3.5 dB      | Confidence levels of 95% |
| Conducted Emission                   | 1.0 dB      | Confidence levels of 95% |
| Temperature                          | 0.41 °C     | Confidence levels of 95% |
| Humidity                             | 3.4 %       | Confidence levels of 95% |

## 2 Test Configuration of EUT

### 2.1 Test Condition

| Condition Item | Abbreviation/Remark | Remark |
|----------------|---------------------|--------|
| TnomVnom       | Tnom                | 20°C   |
| -              | Vnom                | 120V   |

### 2.2 Test Channel Mode

|                       |               |
|-----------------------|---------------|
| Test Software Version | MTool_3_1_0_5 |
|-----------------------|---------------|

#### indoor Sample 1

| Mode                           | Power Setting |
|--------------------------------|---------------|
| 802.11a_Nss1,(6Mbps)_2TX       | -             |
| 5180MHz                        | 88            |
| 5200MHz                        | 92            |
| 5240MHz                        | 94            |
| 5745MHz                        | 92            |
| 5785MHz                        | 92            |
| 5825MHz                        | 93            |
| 802.11n HT20_Nss1,(MCS0)_2TX   | -             |
| 5180MHz                        | 81            |
| 5200MHz                        | 91            |
| 5240MHz                        | 92            |
| 5745MHz                        | 90            |
| 5785MHz                        | 91            |
| 5825MHz                        | 92            |
| 802.11n HT40_Nss1,(MCS0)_2TX   | -             |
| 5190MHz                        | 76            |
| 5230MHz                        | 90            |
| 5755MHz                        | 91            |
| 5795MHz                        | 91            |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | -             |
| 5180MHz                        | 81            |
| 5200MHz                        | 91            |
| 5240MHz                        | 92            |
| 5745MHz                        | 90            |



| Mode                           | Power Setting |
|--------------------------------|---------------|
| 5785MHz                        | 91            |
| 5825MHz                        | 92            |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | -             |
| 5190MHz                        | 76            |
| 5230MHz                        | 90            |
| 5755MHz                        | 91            |
| 5795MHz                        | 91            |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | -             |
| 5210MHz                        | 77            |
| 5775MHz                        | 85            |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | -             |
| 5180MHz                        | 81            |
| 5200MHz                        | 91            |
| 5240MHz                        | 92            |
| 5745MHz                        | 90            |
| 5785MHz                        | 91            |
| 5825MHz                        | 92            |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | -             |
| 5190MHz                        | 76            |
| 5230MHz                        | 90            |
| 5755MHz                        | 91            |
| 5795MHz                        | 91            |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | -             |
| 5210MHz                        | 77            |
| 5775MHz                        | 85            |

**indoor Sample 2**

| Mode                           | Power Setting |
|--------------------------------|---------------|
| 802.11a_Nss1,(6Mbps)_2TX       | -             |
| 5180MHz                        | 84            |
| 5200MHz                        | 87            |
| 5240MHz                        | 87            |
| 5745MHz                        | 87            |
| 5785MHz                        | 88            |
| 5825MHz                        | 89            |
| 802.11n HT20_Nss1,(MCS0)_2TX   | -             |
| 5180MHz                        | 76            |
| 5200MHz                        | 86            |
| 5240MHz                        | 86            |
| 5745MHz                        | 85            |
| 5785MHz                        | 87            |
| 5825MHz                        | 87            |
| 802.11n HT40_Nss1,(MCS0)_2TX   | -             |
| 5190MHz                        | 70            |
| 5230MHz                        | 87            |
| 5755MHz                        | 86            |
| 5795MHz                        | 87            |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | -             |
| 5180MHz                        | 76            |
| 5200MHz                        | 86            |
| 5240MHz                        | 86            |
| 5745MHz                        | 85            |
| 5785MHz                        | 87            |
| 5825MHz                        | 87            |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | -             |
| 5190MHz                        | 70            |
| 5230MHz                        | 87            |
| 5755MHz                        | 86            |
| 5795MHz                        | 87            |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | -             |
| 5210MHz                        | 67            |
| 5775MHz                        | 83            |

| Mode                           | Power Setting |
|--------------------------------|---------------|
| 802.11ax HEW20_Nss1,(MCS0)_2TX | -             |
| 5180MHz                        | 76            |
| 5200MHz                        | 86            |
| 5240MHz                        | 86            |
| 5745MHz                        | 85            |
| 5785MHz                        | 87            |
| 5825MHz                        | 87            |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | -             |
| 5190MHz                        | 70            |
| 5230MHz                        | 87            |
| 5755MHz                        | 86            |
| 5795MHz                        | 87            |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | -             |
| 5210MHz                        | 67            |
| 5775MHz                        | 83            |

**outdoor Sample 1**

| Mode                           | Power Setting |
|--------------------------------|---------------|
| 802.11a_Nss1,(6Mbps)_2TX       | -             |
| 5180MHz                        | 70            |
| 5200MHz                        | 70            |
| 5240MHz                        | 71            |
| 5745MHz                        | 92            |
| 5785MHz                        | 92            |
| 5825MHz                        | 93            |
| 802.11n HT20_Nss1,(MCS0)_2TX   | -             |
| 5180MHz                        | 68            |
| 5200MHz                        | 69            |
| 5240MHz                        | 70            |
| 5745MHz                        | 90            |
| 5785MHz                        | 91            |
| 5825MHz                        | 92            |
| 802.11n HT40_Nss1,(MCS0)_2TX   | -             |
| 5190MHz                        | 68            |
| 5230MHz                        | 69            |
| 5755MHz                        | 91            |
| 5795MHz                        | 91            |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | -             |
| 5180MHz                        | 68            |
| 5200MHz                        | 69            |
| 5240MHz                        | 70            |
| 5745MHz                        | 90            |
| 5785MHz                        | 91            |
| 5825MHz                        | 92            |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | -             |
| 5190MHz                        | 68            |
| 5230MHz                        | 69            |
| 5755MHz                        | 91            |
| 5795MHz                        | 91            |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | -             |
| 5210MHz                        | 69            |
| 5775MHz                        | 85            |

| Mode                           | Power Setting |
|--------------------------------|---------------|
| 802.11ax HEW20_Nss1,(MCS0)_2TX | -             |
| 5180MHz                        | 68            |
| 5200MHz                        | 69            |
| 5240MHz                        | 70            |
| 5745MHz                        | 90            |
| 5785MHz                        | 91            |
| 5825MHz                        | 92            |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | -             |
| 5190MHz                        | 68            |
| 5230MHz                        | 69            |
| 5755MHz                        | 91            |
| 5795MHz                        | 91            |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | -             |
| 5210MHz                        | 69            |
| 5775MHz                        | 85            |

**outdoor Sample 2**

| Mode                           | Power Setting |
|--------------------------------|---------------|
| 802.11a_Nss1,(6Mbps)_2TX       | -             |
| 5180MHz                        | 54            |
| 5200MHz                        | 54            |
| 5240MHz                        | 55            |
| 5745MHz                        | 87            |
| 5785MHz                        | 88            |
| 5825MHz                        | 89            |
| 802.11n HT20_Nss1,(MCS0)_2TX   | -             |
| 5180MHz                        | 53            |
| 5200MHz                        | 53            |
| 5240MHz                        | 54            |
| 5745MHz                        | 85            |
| 5785MHz                        | 87            |
| 5825MHz                        | 87            |
| 802.11n HT40_Nss1,(MCS0)_2TX   | -             |
| 5190MHz                        | 54            |
| 5230MHz                        | 54            |
| 5755MHz                        | 86            |
| 5795MHz                        | 87            |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | -             |
| 5180MHz                        | 53            |
| 5200MHz                        | 53            |
| 5240MHz                        | 54            |
| 5745MHz                        | 85            |
| 5785MHz                        | 87            |
| 5825MHz                        | 87            |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | -             |
| 5190MHz                        | 54            |
| 5230MHz                        | 54            |
| 5755MHz                        | 86            |
| 5795MHz                        | 87            |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | -             |
| 5210MHz                        | 53            |
| 5775MHz                        | 83            |



| Mode                           | Power Setting |
|--------------------------------|---------------|
| 802.11ax HEW20_Nss1,(MCS0)_2TX | -             |
| 5180MHz                        | 53            |
| 5200MHz                        | 53            |
| 5240MHz                        | 54            |
| 5745MHz                        | 85            |
| 5785MHz                        | 87            |
| 5825MHz                        | 87            |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | -             |
| 5190MHz                        | 54            |
| 5230MHz                        | 54            |
| 5755MHz                        | 86            |
| 5795MHz                        | 87            |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | -             |
| 5210MHz                        | 53            |
| 5775MHz                        | 83            |

## 2.3 The Worst Case Measurement Configuration

| The Worst Case Mode for Following Conformance Tests |                                                          |
|-----------------------------------------------------|----------------------------------------------------------|
| <b>Tests Item</b>                                   | AC power-line conducted emissions                        |
| <b>Condition</b>                                    | AC power-line conducted measurement for line and neutral |
| <b>Operating Mode</b>                               | CTX                                                      |
| 1                                                   | PoE Mode; Sample 1                                       |
| 2                                                   | PoE Mode; Sample 2                                       |

| The Worst Case Mode for Following Conformance Tests |                                                                                     |
|-----------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Tests Item</b>                                   | Emission Bandwidth<br>Maximum Conducted Output Power<br>Peak Power Spectral Density |
| <b>Test Condition</b>                               | Conducted measurement at transmit chains                                            |

| The Worst Case Mode for Following Conformance Tests |                                                                                                                                                                                                                                                     |                                                                                      |                                                                                       |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Tests Item</b>                                   | Unwanted Emissions                                                                                                                                                                                                                                  |                                                                                      |                                                                                       |
| <b>Test Condition</b>                               | Radiated measurement<br>If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type. |                                                                                      |                                                                                       |
| <b>Operating Mode &lt; 1GHz</b>                     | CTX                                                                                                                                                                                                                                                 |                                                                                      |                                                                                       |
| 1                                                   | PoE Mode; Sample 1                                                                                                                                                                                                                                  |                                                                                      |                                                                                       |
| 2                                                   | PoE Mode; Sample 2                                                                                                                                                                                                                                  |                                                                                      |                                                                                       |
| <b>Operating Mode &gt; 1GHz</b>                     | CTX                                                                                                                                                                                                                                                 |                                                                                      |                                                                                       |
| <b>Orthogonal Planes of EUT</b>                     | <b>X Plane</b>                                                                                                                                                                                                                                      | <b>Y Plane</b>                                                                       | <b>Z Plane</b>                                                                        |
|                                                     |                                                                                                                                                                  |  |  |
| <b>Worst Planes of EUT</b>                          |                                                                                                                                                                                                                                                     | V                                                                                    | V                                                                                     |

| The Worst Case Mode for Following Conformance Tests                                |                                     |
|------------------------------------------------------------------------------------|-------------------------------------|
| <b>Tests Item</b>                                                                  | Simultaneous Transmission Analysis  |
| <b>Operating Mode</b>                                                              | CTX                                 |
| 1                                                                                  | WLAN 2.4GHz + WLAN 5GHz + Bluetooth |
| Refer to Sporton Test Report No.: FA042903 for Co-location RF Exposure Evaluation. |                                     |

## 2.4 Support Equipment

| Support Equipment – AC Conduction |              |            |                   |        |        |
|-----------------------------------|--------------|------------|-------------------|--------|--------|
| No.                               | Equipment    | Brand Name | Model Name        | FCC ID | Remark |
| 1                                 | PoE          | Microsemi  | PD-9001GO/AC-INTL | -      | Note 1 |
| 2                                 | Ground Cable | SPORTON    | SPORTON           | -      | -      |
| 3                                 | RJ-45 Cable  | Power Sync | CAT-6E-10         | -      | -      |

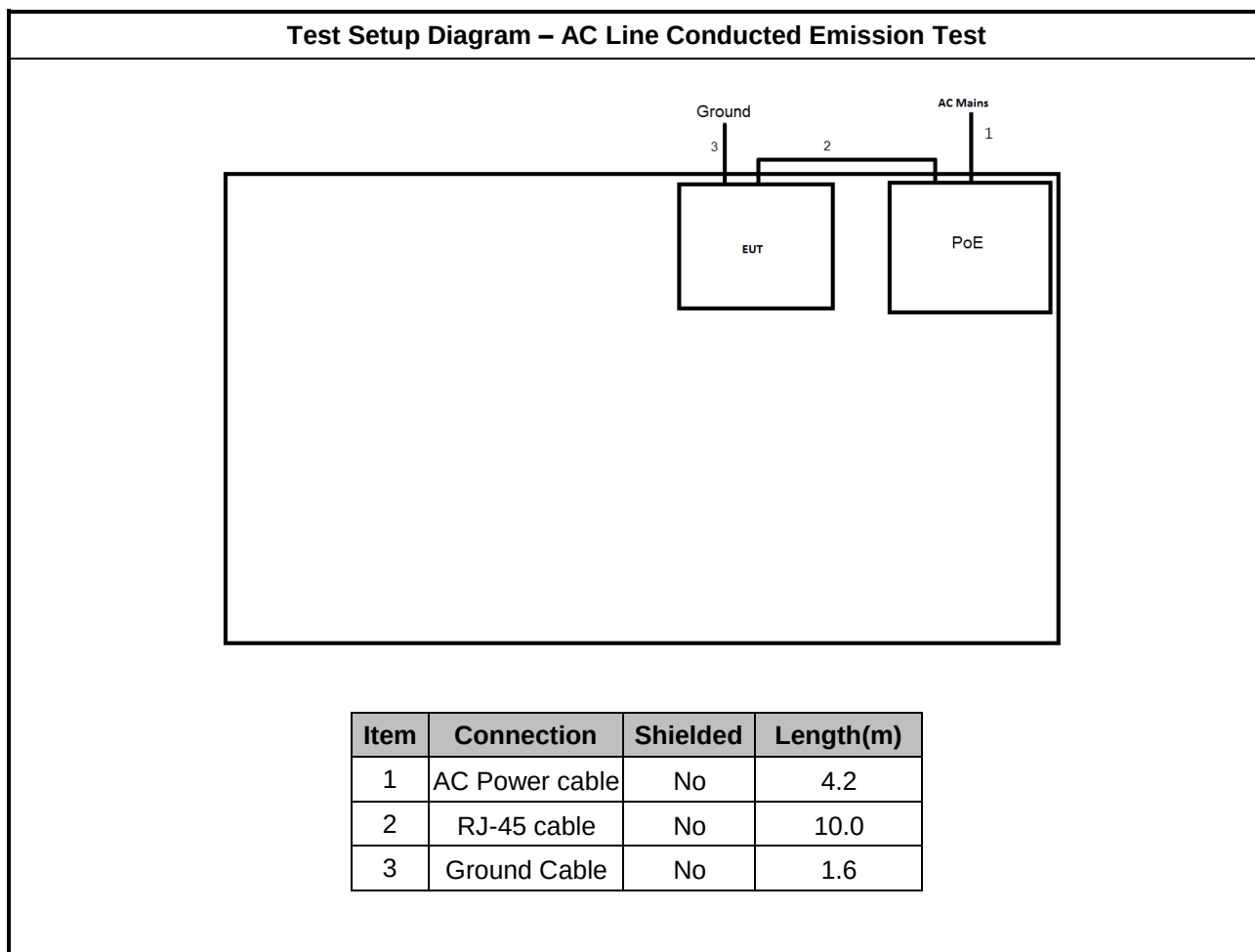
Note 1: Support equipment No.1 was provided by customer.

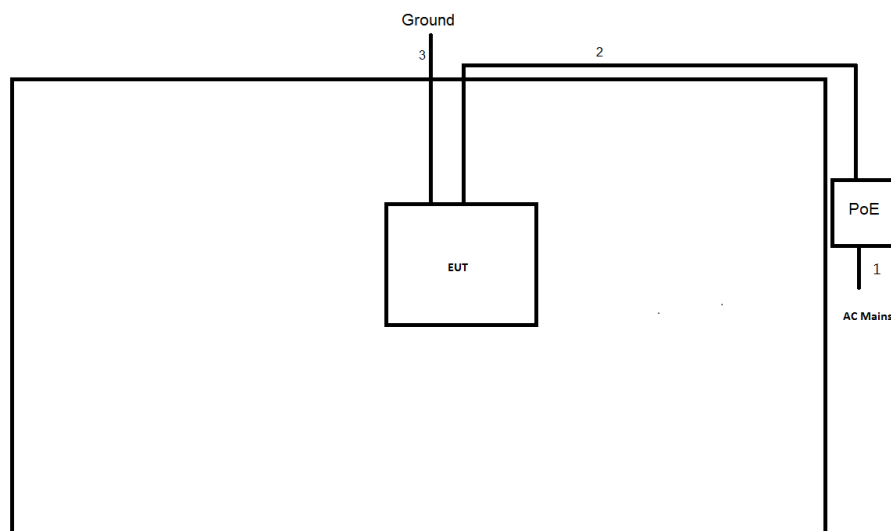
| Support Equipment –Conducted |                |            |            |        |        |
|------------------------------|----------------|------------|------------|--------|--------|
| No.                          | Equipment      | Brand Name | Model Name | FCC ID | Remark |
| 1                            | Notebook       | DELL       | E5410      | -      | -      |
| 2                            | Adapter for NB | DELL       | HA65NM130  | -      | -      |

| Support Equipment –Radiated |              |            |                   |        |                 |
|-----------------------------|--------------|------------|-------------------|--------|-----------------|
| No.                         | Equipment    | Brand Name | Model Name        | FCC ID | Remark          |
| 1                           | Ground Cable | SPORTON    | SPORTON           | -      | -               |
| 2                           | RJ-45 Cable  | Power Sync | CAT-6E-10         | -      | -               |
| 3                           | PoE          | Microsemi  | PD-9001GO/AC-INTL | -      | Note 1 / Remote |

Note 1: Support equipment No.3 was provided by customer.

## 2.5 Test Setup Diagram



**Test Setup Diagram - Radiated Test**


| Item | Connection     | Shielded | Length(m) |
|------|----------------|----------|-----------|
| 1    | AC Power cable | No       | 4.2       |
| 2    | RJ-45 cable    | No       | 10.0      |
| 3    | Ground Cable   | No       | 1.6       |

### 3 Transmitter Test Result

#### 3.1 AC Power-line Conducted Emissions

##### 3.1.1 AC Power-line Conducted Emissions Limit

| AC Power-line Conducted Emissions Limit                  |            |           |
|----------------------------------------------------------|------------|-----------|
| Frequency Emission (MHz)                                 | Quasi-Peak | Average   |
| 0.15-0.5                                                 | 66 - 56 *  | 56 - 46 * |
| 0.5-5                                                    | 56         | 46        |
| 5-30                                                     | 60         | 50        |
| Note 1: * Decreases with the logarithm of the frequency. |            |           |

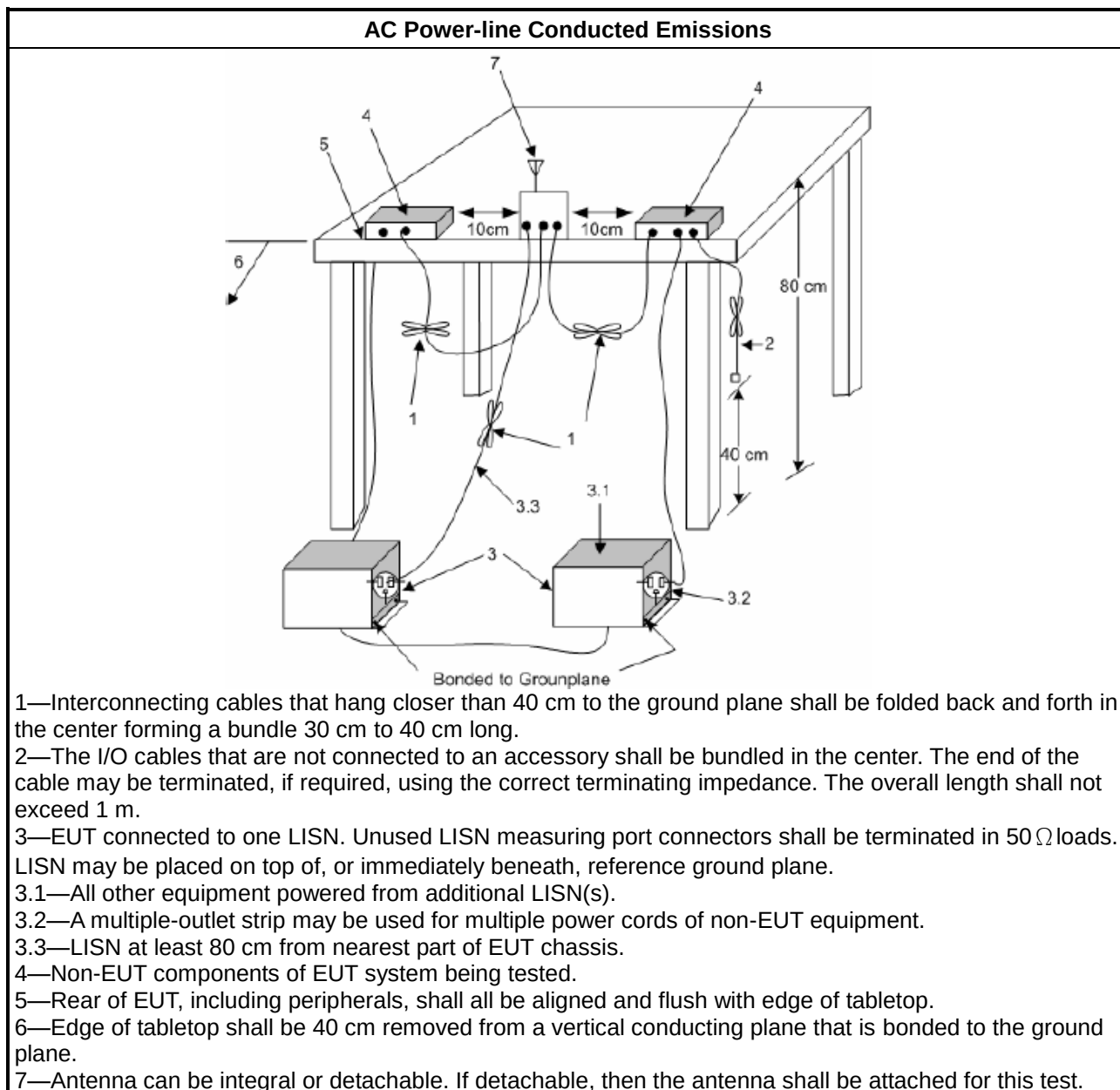
##### 3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

##### 3.1.3 Test Procedures

| Test Method                                                                                                      |
|------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions. |

### 3.1.4 Test Setup



### 3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

## 3.2 Emission Bandwidth

### 3.2.1 Emission Bandwidth Limit

| Emission Bandwidth Limit            |                                                                     |
|-------------------------------------|---------------------------------------------------------------------|
| <b>UNII Devices</b>                 |                                                                     |
| <input checked="" type="checkbox"/> | For the 5.15-5.25 GHz band, N/A                                     |
| <input type="checkbox"/>            | For the 5.25-5.35 GHz band, N/A                                     |
| <input type="checkbox"/>            | For the 5.47-5.725 GHz band, N/A                                    |
| <input checked="" type="checkbox"/> | For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq$ 500kHz. |

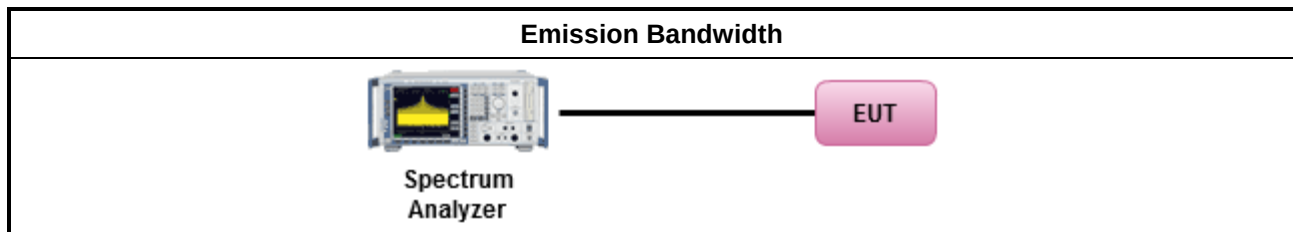
### 3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

### 3.2.3 Test Procedures

| Test Method                                                                                                                    |                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>For the emission bandwidth shall be measured using one of the options below:</li> </ul> |                                                                         |
| <input checked="" type="checkbox"/>                                                                                            | Refer as KDB 789033, clause C for EBW and clause D for OBW measurement. |
| <input type="checkbox"/>                                                                                                       | Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.      |
| <input type="checkbox"/>                                                                                                       | Refer as IC RSS-Gen, clause 6.7 for bandwidth testing.                  |

### 3.2.4 Test Setup



### 3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

### 3.3 Maximum Conducted Output Power

#### 3.3.1 Maximum Conducted Output Power Limit

| Maximum Conducted Output Power Limit                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UNII Devices</b>                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <input checked="" type="checkbox"/> For the 5.15-5.25 GHz band:                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <input type="checkbox"/>                                                                                                   | <ul style="list-style-type: none"> <li>Outdoor AP: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math>. e.i.r.p. at any elevation angle above 30 degrees <math>\leq 125</math>mW [21dBm]</li> <li>Indoor AP: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math></li> <li>Point-to-point AP: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 23</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 23)</math>.</li> <li>Mobile or Portable Client: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 250 mW. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 24 - (G_{TX} - 6)</math>.</li> </ul> |
| <input type="checkbox"/>                                                                                                   | For the 5.25-5.35 GHz band, the maximum conducted output power ( $P_{Out}$ ) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$ .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <input type="checkbox"/>                                                                                                   | For the 5.47-5.725 GHz band, the maximum conducted output power ( $P_{Out}$ ) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$ .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <input checked="" type="checkbox"/> For the 5.725-5.85 GHz band:                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <input type="checkbox"/>                                                                                                   | <ul style="list-style-type: none"> <li>Point-to-multipoint systems (P2M): the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math>.</li> <li>Point-to-point systems (P2P): the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| $P_{Out}$ = maximum conducted output power in dBm,<br>$G_{TX}$ = the maximum transmitting antenna directional gain in dBi. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

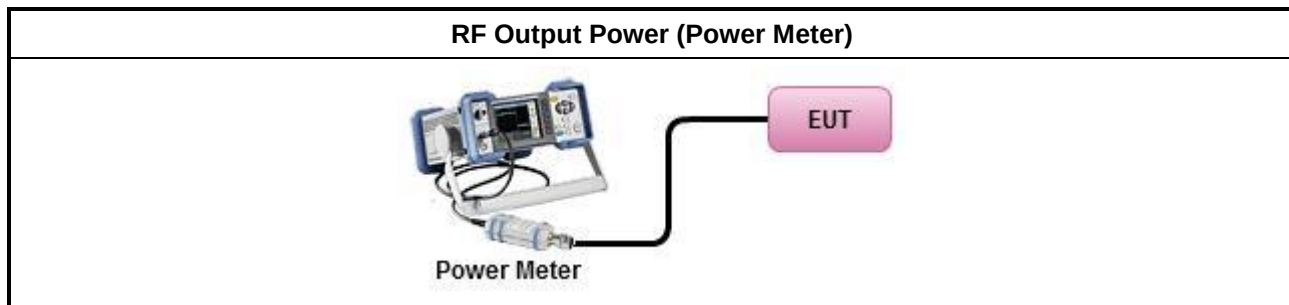
### 3.3.2 Measuring Instruments

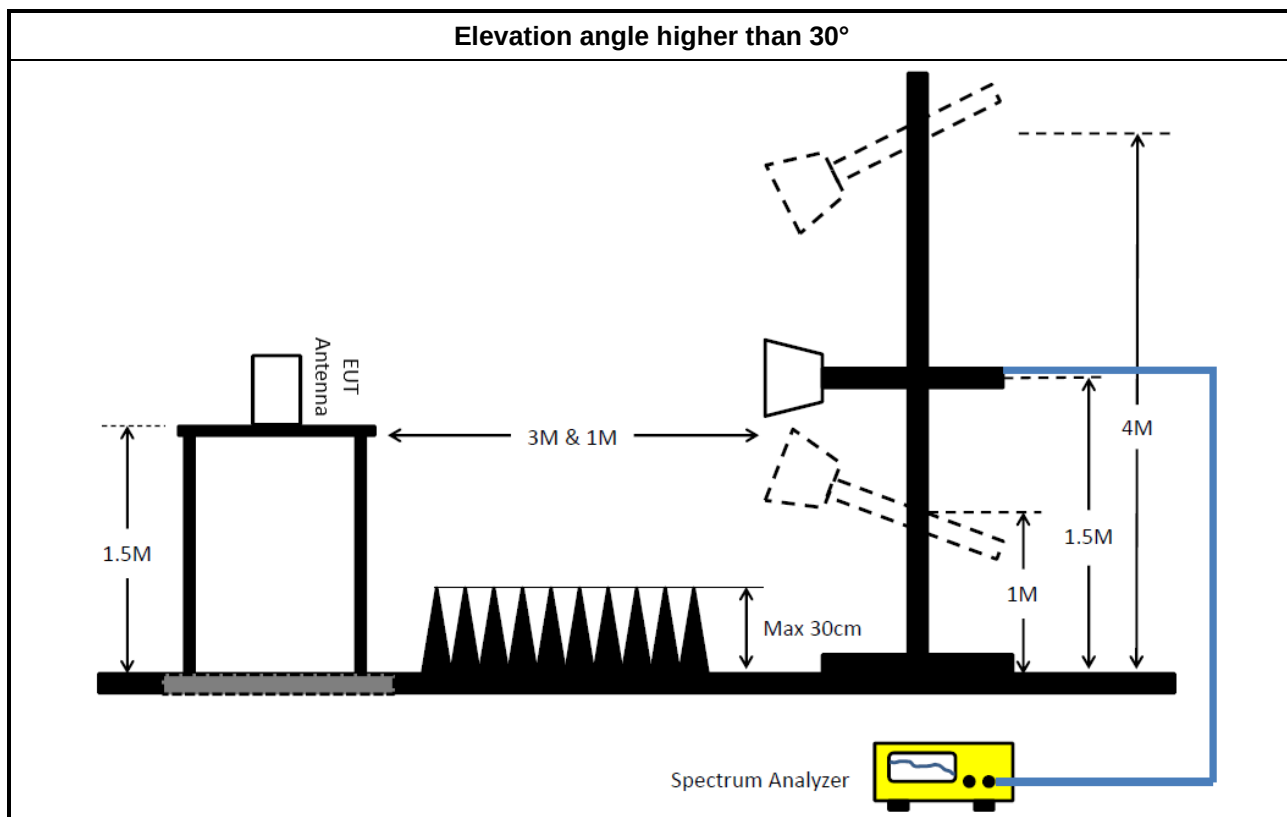
Refer a test equipment and calibration data table in this test report.

### 3.3.3 Test Procedures

| Test Method                                                                      |                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Maximum Conducted Output Power</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                  | Duty cycle $\geq 98\%$                                                                                                                                                                                                                                                                                                                                             |
| <input type="checkbox"/>                                                         | Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).                                                                                                                                                                                                                                                                                              |
|                                                                                  | Duty cycle $< 98\%$                                                                                                                                                                                                                                                                                                                                                |
| <input type="checkbox"/>                                                         | Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)                                                                                                                                                                                                                                                                               |
|                                                                                  | Wideband RF power meter and average over on/off periods with duty factor                                                                                                                                                                                                                                                                                           |
| <input checked="" type="checkbox"/>                                              | Refer as KDB 789033, clause E Method PM (using an RF average power meter).                                                                                                                                                                                                                                                                                         |
| <ul style="list-style-type: none"> <li>For conducted measurement.</li> </ul>     |                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                  | <ul style="list-style-type: none"> <li>If the EUT supports multiple transmit chains using options given below:<br/>Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.</li> </ul> |
|                                                                                  | <ul style="list-style-type: none"> <li>If multiple transmit chains, EIRP calculation could be following as methods:<br/> <math>P_{\text{total}} = P_1 + P_2 + \dots + P_n</math><br/> (calculated in linear unit [mW] and transfer to log unit [dBm])<br/> <math>\text{EIRP}_{\text{total}} = P_{\text{total}} + \text{DG}</math> </li> </ul>                      |

### 3.3.4 Test Setup





### 3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

### 3.3.6 Test Result of MAX. E.I.R.P. At Any Elevation Angle Above 30 Degrees

Refer as Appendix C

### 3.4 Peak Power Spectral Density

#### 3.4.1 Peak Power Spectral Density Limit

| Peak Power Spectral Density Limit                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UNII Devices</b>                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <input checked="" type="checkbox"/> For the 5.15-5.25 GHz band:                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                         | <ul style="list-style-type: none"> <li>Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 17 - (G_{TX} - 6)</math>.</li> <li>Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 17 - (G_{TX} - 6)</math>.</li> <li>Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If <math>G_{TX} &gt; 23</math> dBi, then <math>P_{Out} = 17 - (G_{TX} - 23)</math>.</li> <li>Mobile or Portable Client: the peak power spectral density (PPSD) <math>\leq 11</math> dBm/MHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>PPSD = 11 - (G_{TX} - 6)</math>.</li> </ul> |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                         | For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) $\leq 11$ dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$ .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                         | For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) $\leq 11$ dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$ .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <input checked="" type="checkbox"/> For the 5.725-5.85 GHz band:                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                         | <ul style="list-style-type: none"> <li>Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) <math>\leq 30</math> dBm/500kHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>PPSD = 30 - (G_{TX} - 6)</math>.</li> <li>Point-to-point systems (P2P): the peak power spectral density (PPSD) <math>\leq 30</math> dBm/500kHz.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>PPSD</b> = peak power spectral density that the same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz<br><b>G<sub>TX</sub></b> = the maximum transmitting antenna directional gain in dBi. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

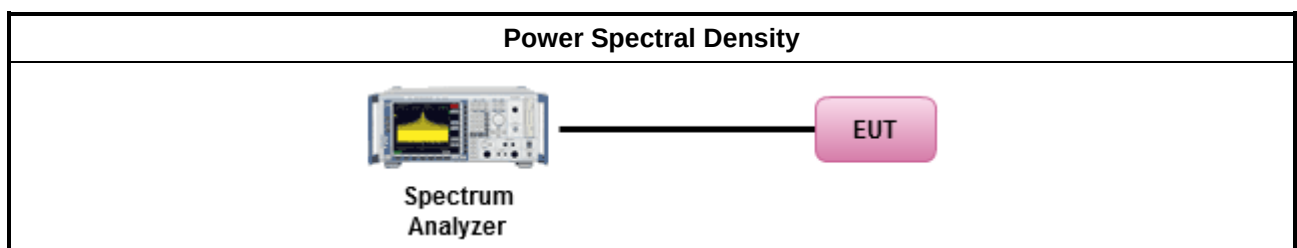
#### 3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

### 3.4.3 Test Procedures

| Test Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <ul style="list-style-type: none"> <li>Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:</li> </ul>                                                                                                                                                                                                                                                                                       |  |
| <input type="checkbox"/> Refer as KDB 789033, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
| Duty cycle ≥ 98%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| <input checked="" type="checkbox"/> Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| Duty cycle < 98%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| <input checked="" type="checkbox"/> Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| <ul style="list-style-type: none"> <li>For conducted measurement.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| <ul style="list-style-type: none"> <li>If the EUT supports multiple transmit chains using options given below:</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <input type="checkbox"/> Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace. |  |
| <ul style="list-style-type: none"> <li>If multiple transmit chains, EIRP PPSD calculation could be following as methods:<br/> <math display="block">PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n</math>           (calculated in linear unit [mW] and transfer to log unit [dBm])<br/> <math display="block">EIRP_{total} = PPSD_{total} + DG</math> </li> </ul>                                                                                                                                                                                                                                                                                                                   |  |

### 3.4.4 Test Setup



### 3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D

### 3.5 Unwanted Emissions

#### 3.5.1 Transmitter Radiated Unwanted Emissions Limit

| Unwanted emissions below 1 GHz and restricted band emissions above 1GHz limit |                       |                         |                      |
|-------------------------------------------------------------------------------|-----------------------|-------------------------|----------------------|
| Frequency Range (MHz)                                                         | Field Strength (uV/m) | Field Strength (dBuV/m) | Measure Distance (m) |
| 0.009~0.490                                                                   | 2400/F(kHz)           | 48.5 - 13.8             | 300                  |
| 0.490~1.705                                                                   | 24000/F(kHz)          | 33.8 - 23               | 30                   |
| 1.705~30.0                                                                    | 30                    | 29                      | 30                   |
| 30~88                                                                         | 100                   | 40                      | 3                    |
| 88~216                                                                        | 150                   | 43.5                    | 3                    |
| 216~960                                                                       | 200                   | 46                      | 3                    |
| Above 960                                                                     | 500                   | 54                      | 3                    |

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

| Un-restricted band emissions above 1GHz Limit |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Band                                | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 5.15 - 5.25 GHz                               | e.i.r.p. -27 dBm [68.2 dBuV/m@3m]                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 5.25 - 5.35 GHz                               | e.i.r.p. -27 dBm [68.2 dBuV/m@3m]                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 5.47 - 5.725 GHz                              | e.i.r.p. -27 dBm [68.2 dBuV/m@3m]                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 5.725 - 5.85 GHz                              | 5.650-5700 GHz: e.i.r.p. -27 ~ 10 dBm [68.2 ~ 105.2 dBuV/m@3m]<br>5.700-5720 GHz: e.i.r.p. 10 ~ 15.6 dBm [105.2 ~ 110.8 dBuV/m@3m]<br>5.720-5725 GHz: e.i.r.p. 15.6 ~ 27 dBm [110.8 ~ 122.2 dBuV/m@3m]<br>5.850-5.855 GHz: e.i.r.p. 27 ~ 15.6 dBm [122.2 ~ 110.8 dBuV/m@3m]<br>5.855-5.875 GHz: e.i.r.p. 15.6 ~ 10 dBm [110.8 ~ 105.2 dBuV/m@3m]<br>5.875-5.925 GHz: e.i.r.p. 10 ~ -27 dBm [105.2 ~ 68.2dBuV/m@3m]<br>Other un-restricted band: e.i.r.p. -27 dBm [68.2 dBuV/m@3m] |

Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

### 3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

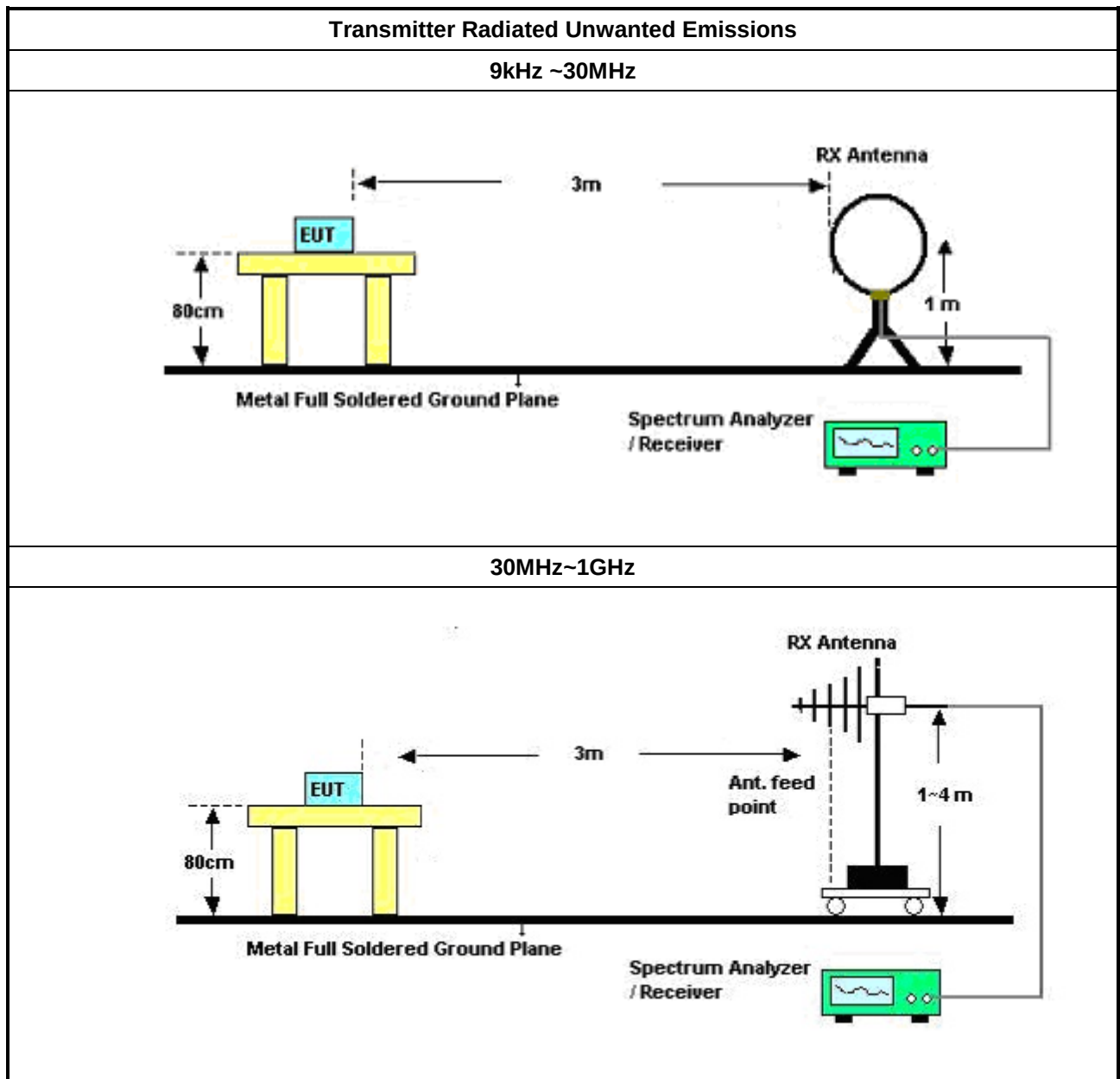
### 3.5.3 Test Procedures

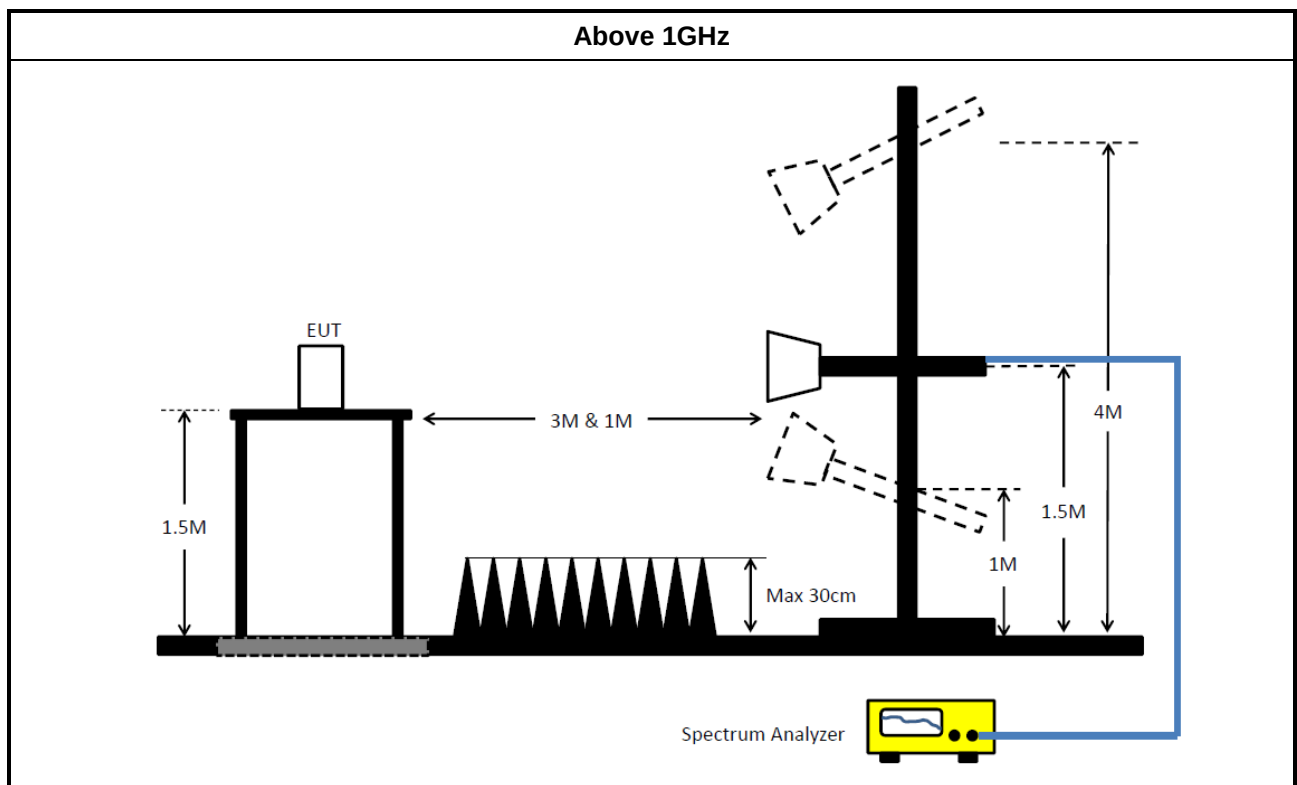
| Test Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).</li> </ul> |                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>The average emission levels shall be measured in [duty cycle <math>\geq</math> 98 or duty factor].</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>For the transmitter unwanted emissions shall be measured using following options below:</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>Refer as KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.</li> </ul>               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>Refer as KDB 789033, clause G)1) for unwanted emissions into restricted bands.</li> </ul>                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <input checked="" type="checkbox"/> Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW.                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <input checked="" type="checkbox"/> Refer as KDB 789033, clause G)5) (ANSI C63.10, clause 4.1.4.2.2), measurement procedure peak limit.            |
| <ul style="list-style-type: none"> <li>For radiated measurement.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.</li> </ul>    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.</li> </ul> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.</li> </ul>                              |
| <ul style="list-style-type: none"> <li>The any unwanted emissions level shall not exceed the fundamental emission level.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                    |

|                                                                                                                           |                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Use the following spectrum analyzer settings:</li> </ul>                           |                                                                                                                                                                                                                                                         |
|                                                                                                                           | <ul style="list-style-type: none"> <li>Set RBW=100 kHz for <math>f &lt; 1</math> GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.</li> </ul>                                                                                 |
|                                                                                                                           | <ul style="list-style-type: none"> <li>Set RBW = 1 MHz, VBW= 3MHz for <math>f \geq 1</math> GHz for peak measurement. For average measurement, refer as 1.1.4.</li> </ul>                                                                               |
| <ul style="list-style-type: none"> <li>KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.</li> </ul> |                                                                                                                                                                                                                                                         |
|                                                                                                                           | <ul style="list-style-type: none"> <li>Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.</li> </ul> |
|                                                                                                                           | <ul style="list-style-type: none"> <li>Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.</li> </ul>                                                                    |

### 3.5.4 Test Setup





### 3.5.5 Transmitter Unwanted Emissions (Below 30MHz)

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

### 3.5.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

## 4 Test Equipment and Calibration Data

### Instrument for AC Conduction

| Instrument                           | Manufacturer | Model No.   | Serial No. | Spec.               | Calibration Date | Calibration Due Date |
|--------------------------------------|--------------|-------------|------------|---------------------|------------------|----------------------|
| EMC Receiver                         | R&S          | ESR         | 102051     | 9kHz ~ 3.6GHz       | 29/May/2020      | 28/May/2021          |
| LISN                                 | R&S          | ENV216      | 101295     | 9kHz ~ 30MHz        | 04/Nov/2019      | 05/Nov/2020          |
| RF Cable-CON                         | MTJ          | RG142       | CB002-CO   | 9kHz ~ 200MHz       | 12/Sep/2019      | 11/Sep/2020          |
| AC POWER                             | APC          | AFC-11005G  | F310050055 | 47Hz~63Hz<br>5~300V | NCR              | NCR                  |
| Impuls<br>Begrenzer<br>Pulse Limiter | SCHWARZBECK  | VTSD 9561-F | 9561-F041  | 9 kHz ~ 30 MHz      | 24/Sep/2019      | 23/Sep/2020          |

NCR: Non-Calibration Require

### Instrument for Conducted Test

| Instrument                     | Manufacturer | Model No. | Serial No. | Spec.          | Calibration Date | Calibration Due Date |
|--------------------------------|--------------|-----------|------------|----------------|------------------|----------------------|
| Spectrum Analyzer              | R&S          | FSV 40    | 101013     | 10Hz~40GHz     | 19/Mar/2020      | 18/Mar/2021          |
| SMB100A<br>Signal<br>Generator | R&S          | SMB100A03 | 181147     | 100kHz~40GHz   | 12/Nov/2018      | 10/Nov/2020          |
| Power Sensor                   | Anritsu      | MA2411B   | 0917017    | 300MHz ~ 40GHz | 17/Feb/2020      | 16/Feb/2021          |
| Power Meter                    | Anritsu      | ML2495A   | 0949003    | 300MHz ~ 40GHz | 17/Feb/2020      | 16/Feb/2021          |

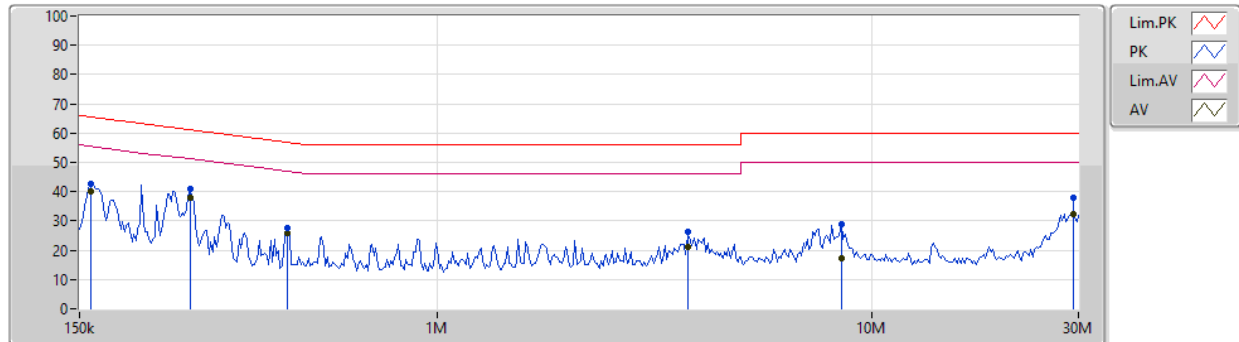
**Instrument for Radiated Test**

| Instrument                       | Manufacturer | Model No.             | Serial No.       | Spec.         | Calibration Date | Calibration Due Date |
|----------------------------------|--------------|-----------------------|------------------|---------------|------------------|----------------------|
| 3m Semi Anechoic Chamber         | TDK          | SAC-3M                | 03CH09-HY        | 30MHz~1GHz    | 27/Mar/2020      | 26/Mar/2021          |
| 3m Semi Anechoic Chamber         | TDK          | SAC-3M                | 03CH09-HY        | 1GHz~18GHz    | 19/Mar/2020      | 18/Mar/2021          |
| Microwave Preamplifier           | Agilent      | 8449B                 | 3008A02096       | 1GHz~26.5GHz  | 04/Sep/2019      | 03/Sep/2020          |
| Amplifier                        | EMC          | EMC9135               | 980232           | 9kHz~1GHz     | 14/Apr/2020      | 13/Apr/2021          |
| EMC Receiver                     | R&S          | ESR3                  | 102051           | 9kHz ~ 3.6GHz | 28/May/2019      | 27/May/2020          |
| EMC Receiver                     | R&S          | ESR3                  | 102051           | 9kHz ~ 3.6GHz | 29/May/2020      | 28/May/2021          |
| EXA Signal Analyzer              | KEYSIGHT     | N9010A                | MY54200885       | 10Hz~44GHz    | 07/Aug/2019      | 06/Aug/2020          |
| Bilog Antenna & 5dB Attenuator   | TESEQ & MTJ  | CBL6111D & MTJ6102-05 | 35418 / 3        | 30MHz~1GHz    | 11/Oct/2019      | 10/Oct/2020          |
| Double Ridged Guide Horn Antenna | SCHWARZBECK  | BBHA 9120 D           | BBHA9120 D 1534  | 1GHz~18GHz    | 22/May/2019      | 21/May/2020          |
| Double Ridged Guide Horn Antenna | SCHWARZBECK  | BBHA 9120 D           | BBHA9120 D 1534  | 1GHz~18GHz    | 28/May/2020      | 27/May/2021          |
| Broadband Horn Antenna           | SCHWARZBECK  | BBHA 9170             | BBHA 9170221     | 18GHz~40GHz   | 13/Mar/2020      | 12/Mar/2021          |
| Preamplifier                     | MITEQ        | TTA1840-35-HG         | 1864481          | 18GHz~40GHz   | 10/Mar/2020      | 09/Mar/2021          |
| Loop Antenna                     | TESEQ        | HLA 6120              | 31244            | 9kHz-30MHz    | 16/Mar/2020      | 15/Mar/2021          |
| RF Cable-low                     | Jye Bao      | RG142                 | CB031+324530/4   | 9kHz~1GHz     | 12/Feb/2020      | 11/Feb/2021          |
| RF Cable-high                    | HUBER+SUHNER | SUCOFLEX104           | 324530/4+17173/4 | 1GHz~40GHz    | 12/Feb/2020      | 11/Feb/2021          |

## AC Power-line Conducted Emissions Result

|                    |                    |             |         |
|--------------------|--------------------|-------------|---------|
| Operating Mode     | 1                  | Power Phase | Neutral |
| Operating Function | PoE mode; Sample 1 |             |         |

04/06/2020

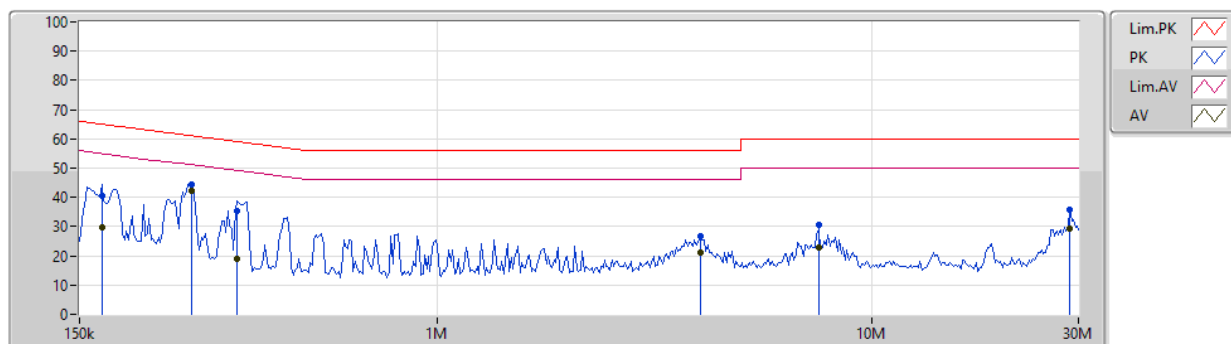


| Type | Freq<br>(Hz) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Factor<br>(dB) | Condition | Comment | Raw<br>(dBuV) | LISN<br>(dB) | CL<br>(dB) | AT<br>(dB) |  |  |  |
|------|--------------|-----------------|-----------------|----------------|----------------|-----------|---------|---------------|--------------|------------|------------|--|--|--|
| QP   | 159.228k     | 42.87           | 65.50           | -22.63         | 19.63          | Neutral   | -       | 23.24         | 9.65         | 0.11       | 9.87       |  |  |  |
| AV   | 159.228k     | 40.22           | 55.50           | -15.28         | 19.63          | Neutral   | -       | 20.59         | 9.65         | 0.11       | 9.87       |  |  |  |
| QP   | 269.806k     | 41.14           | 61.12           | -19.98         | 19.63          | Neutral   | -       | 21.51         | 9.64         | 0.12       | 9.87       |  |  |  |
| AV   | 269.806k     | 37.91           | 51.12           | -13.21         | 19.63          | Neutral   | "Worst" | 18.28         | 9.64         | 0.12       | 9.87       |  |  |  |
| QP   | 452.651k     | 27.74           | 56.82           | -29.08         | 19.63          | Neutral   | -       | 8.11          | 9.63         | 0.13       | 9.87       |  |  |  |
| AV   | 452.651k     | 25.88           | 46.82           | -20.94         | 19.63          | Neutral   | -       | 6.25          | 9.63         | 0.13       | 9.87       |  |  |  |
| QP   | 3.769M       | 26.24           | 56.00           | -29.76         | 19.72          | Neutral   | -       | 6.52          | 9.66         | 0.18       | 9.88       |  |  |  |
| AV   | 3.769M       | 21.05           | 46.00           | -24.95         | 19.72          | Neutral   | -       | 1.33          | 9.66         | 0.18       | 9.88       |  |  |  |
| QP   | 8.523M       | 29.06           | 60.00           | -30.94         | 19.82          | Neutral   | -       | 9.24          | 9.69         | 0.25       | 9.88       |  |  |  |
| AV   | 8.523M       | 17.40           | 50.00           | -32.60         | 19.82          | Neutral   | -       | -2.42         | 9.69         | 0.25       | 9.88       |  |  |  |
| QP   | 29.27M       | 37.85           | 60.00           | -22.15         | 19.98          | Neutral   | -       | 17.87         | 9.66         | 0.44       | 9.88       |  |  |  |
| AV   | 29.27M       | 32.15           | 50.00           | -17.85         | 19.98          | Neutral   | -       | 12.17         | 9.66         | 0.44       | 9.88       |  |  |  |

## AC Power-line Conducted Emissions Result

|                    |                    |             |      |
|--------------------|--------------------|-------------|------|
| Operating Mode     | 1                  | Power Phase | Line |
| Operating Function | PoE mode; Sample 1 |             |      |

04/06/2020

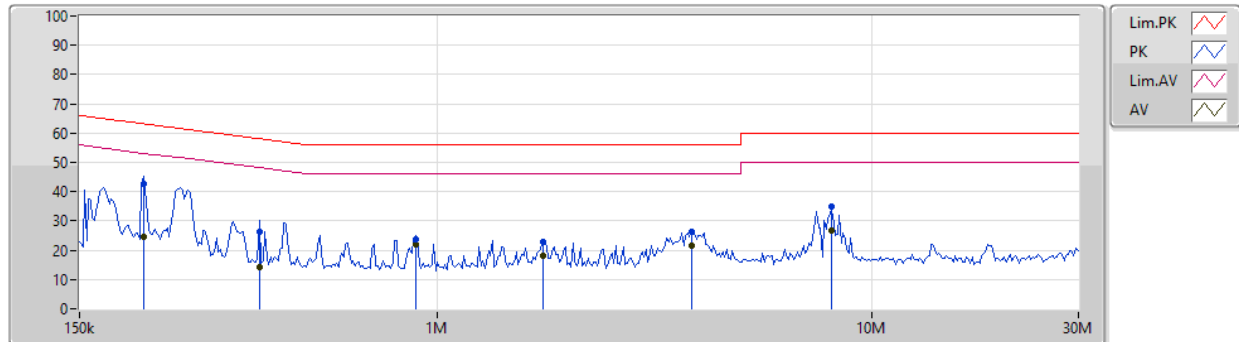


| Type | Freq (Hz) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Factor (dB) | Condition | Comment | Raw (dBuV) | LISN (dB) | CL (dB) | AT (dB) |  |  |  |
|------|-----------|--------------|--------------|-------------|-------------|-----------|---------|------------|-----------|---------|---------|--|--|--|
| QP   | 169.024k  | 40.35        | 65.01        | -24.66      | 19.64       | Line      | -       | 20.71      | 9.66      | 0.11    | 9.87    |  |  |  |
| AV   | 169.024k  | 29.53        | 55.01        | -25.48      | 19.64       | Line      | -       | 9.89       | 9.66      | 0.11    | 9.87    |  |  |  |
| QP   | 272.505k  | 44.54        | 61.05        | -16.51      | 19.64       | Line      | -       | 24.90      | 9.65      | 0.12    | 9.87    |  |  |  |
| AV   | 272.505k  | 42.04        | 51.05        | -9.01       | 19.64       | Line      | "Worst" | 22.40      | 9.65      | 0.12    | 9.87    |  |  |  |
| QP   | 346.008k  | 35.35        | 59.06        | -23.71      | 19.63       | Line      | -       | 15.72      | 9.64      | 0.12    | 9.87    |  |  |  |
| AV   | 346.008k  | 19.07        | 49.06        | -29.99      | 19.63       | Line      | -       | -0.56      | 9.64      | 0.12    | 9.87    |  |  |  |
| QP   | 4.041M    | 26.66        | 56.00        | -29.34      | 19.73       | Line      | -       | 6.93       | 9.66      | 0.19    | 9.88    |  |  |  |
| AV   | 4.041M    | 21.25        | 46.00        | -24.75      | 19.73       | Line      | -       | 1.52       | 9.66      | 0.19    | 9.88    |  |  |  |
| QP   | 7.563M    | 30.79        | 60.00        | -29.21      | 19.80       | Line      | -       | 10.99      | 9.68      | 0.24    | 9.88    |  |  |  |
| AV   | 7.563M    | 22.67        | 50.00        | -27.33      | 19.80       | Line      | -       | 2.87       | 9.68      | 0.24    | 9.88    |  |  |  |
| QP   | 28.693M   | 35.65        | 60.00        | -24.35      | 19.84       | Line      | -       | 15.81      | 9.52      | 0.44    | 9.88    |  |  |  |
| AV   | 28.693M   | 29.46        | 50.00        | -20.54      | 19.84       | Line      | -       | 9.62       | 9.52      | 0.44    | 9.88    |  |  |  |

## AC Power-line Conducted Emissions Result

|                    |                    |             |         |
|--------------------|--------------------|-------------|---------|
| Operating Mode     | 2                  | Power Phase | Neutral |
| Operating Function | PoE mode; Sample 2 |             |         |

04/06/2020

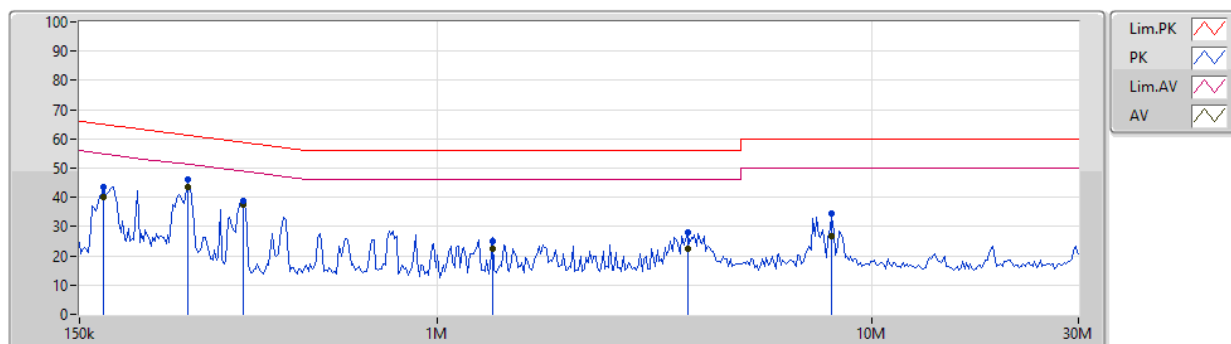


| Type | Freq<br>(Hz) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Factor<br>(dB) | Condition | Comment | Raw<br>(dBuV) | LISN<br>(dB) | CL<br>(dB) | AT<br>(dB) |  |  |  |
|------|--------------|-----------------|-----------------|----------------|----------------|-----------|---------|---------------|--------------|------------|------------|--|--|--|
| QP   | 210.387k     | 42.78           | 63.19           | -20.41         | 19.62          | Neutral   | "Worst" | 23.16         | 9.64         | 0.11       | 9.87       |  |  |  |
| AV   | 210.387k     | 24.48           | 53.19           | -28.71         | 19.62          | Neutral   | -       | 4.86          | 9.64         | 0.11       | 9.87       |  |  |  |
| QP   | 389.891k     | 26.33           | 58.07           | -31.74         | 19.63          | Neutral   | -       | 6.70          | 9.63         | 0.13       | 9.87       |  |  |  |
| AV   | 389.891k     | 14.29           | 48.07           | -33.78         | 19.63          | Neutral   | -       | -5.34         | 9.63         | 0.13       | 9.87       |  |  |  |
| QP   | 890.466k     | 23.68           | 56.00           | -32.32         | 19.61          | Neutral   | -       | 4.07          | 9.63         | 0.11       | 9.87       |  |  |  |
| AV   | 890.466k     | 22.02           | 46.00           | -23.98         | 19.61          | Neutral   | -       | 2.41          | 9.63         | 0.11       | 9.87       |  |  |  |
| QP   | 1.752M       | 23.05           | 56.00           | -32.95         | 19.66          | Neutral   | -       | 3.39          | 9.65         | 0.14       | 9.87       |  |  |  |
| AV   | 1.752M       | 18.23           | 46.00           | -27.77         | 19.66          | Neutral   | -       | -1.43         | 9.65         | 0.14       | 9.87       |  |  |  |
| QP   | 3.845M       | 26.16           | 56.00           | -29.84         | 19.73          | Neutral   | -       | 6.43          | 9.66         | 0.19       | 9.88       |  |  |  |
| AV   | 3.845M       | 21.34           | 46.00           | -24.66         | 19.73          | Neutral   | -       | 1.61          | 9.66         | 0.19       | 9.88       |  |  |  |
| QP   | 8.109M       | 34.79           | 60.00           | -25.21         | 19.82          | Neutral   | -       | 14.97         | 9.69         | 0.25       | 9.88       |  |  |  |
| AV   | 8.109M       | 26.90           | 50.00           | -23.10         | 19.82          | Neutral   | -       | 7.08          | 9.69         | 0.25       | 9.88       |  |  |  |

## AC Power-line Conducted Emissions Result

|                    |                    |             |      |
|--------------------|--------------------|-------------|------|
| Operating Mode     | 2                  | Power Phase | Line |
| Operating Function | PoE mode; Sample 2 |             |      |

04/06/2020



| Type | Freq (Hz) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Factor (dB) | Condition | Comment | Raw (dBuV) | LISN (dB) | CL (dB) | AT (dB) |  |  |  |
|------|-----------|--------------|--------------|-------------|-------------|-----------|---------|------------|-----------|---------|---------|--|--|--|
| QP   | 170.714k  | 43.65        | 64.93        | -21.28      | 19.64       | Line      | -       | 24.01      | 9.66      | 0.11    | 9.87    |  |  |  |
| AV   | 170.714k  | 40.30        | 54.93        | -14.63      | 19.64       | Line      | -       | 20.66      | 9.66      | 0.11    | 9.87    |  |  |  |
| QP   | 267.135k  | 45.97        | 61.20        | -15.23      | 19.64       | Line      | -       | 26.33      | 9.65      | 0.12    | 9.87    |  |  |  |
| AV   | 267.135k  | 43.44        | 51.20        | -7.76       | 19.64       | Line      | "Worst" | 23.80      | 9.65      | 0.12    | 9.87    |  |  |  |
| QP   | 356.493k  | 38.59        | 58.81        | -20.22      | 19.63       | Line      | -       | 18.96      | 9.64      | 0.12    | 9.87    |  |  |  |
| AV   | 356.493k  | 37.44        | 48.81        | -11.37      | 19.63       | Line      | -       | 17.81      | 9.64      | 0.12    | 9.87    |  |  |  |
| QP   | 1.339M    | 25.02        | 56.00        | -30.98      | 19.65       | Line      | -       | 5.37       | 9.64      | 0.13    | 9.88    |  |  |  |
| AV   | 1.339M    | 22.22        | 46.00        | -23.78      | 19.65       | Line      | -       | 2.57       | 9.64      | 0.13    | 9.88    |  |  |  |
| QP   | 3.769M    | 28.11        | 56.00        | -27.89      | 19.72       | Line      | -       | 8.39       | 9.66      | 0.18    | 9.88    |  |  |  |
| AV   | 3.769M    | 22.52        | 46.00        | -23.48      | 19.72       | Line      | -       | 2.80       | 9.66      | 0.18    | 9.88    |  |  |  |
| QP   | 8.109M    | 34.40        | 60.00        | -25.60      | 19.81       | Line      | -       | 14.59      | 9.68      | 0.25    | 9.88    |  |  |  |
| AV   | 8.109M    | 26.88        | 50.00        | -23.12      | 19.81       | Line      | -       | 7.07       | 9.68      | 0.25    | 9.88    |  |  |  |

**Summary**

| Mode                           | Max-N dB<br>(Hz) | Max-OBW<br>(Hz) | ITU-Code | Min-N dB<br>(Hz) | Min-OBW<br>(Hz) |
|--------------------------------|------------------|-----------------|----------|------------------|-----------------|
| 5.15-5.25GHz                   | -                | -               | -        | -                | -               |
| 802.11a_Nss1,(6Mbps)_2TX       | 22.11M           | 16.6M           | 16M6D1D  | 21.45M           | 16.576M         |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 21.96M           | 17.823M         | 17M8D1D  | 21.48M           | 17.751M         |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 40.2M            | 36.222M         | 36M2D1D  | 39.42M           | 36.222M         |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 21.93M           | 17.799M         | 17M8D1D  | 21.66M           | 17.727M         |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 40.2M            | 36.27M          | 36M3D1D  | 39.78M           | 36.222M         |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 81.72M           | 75.802M         | 75M8D1D  | 81.48M           | 75.706M         |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 21.75M           | 18.999M         | 19M0D1D  | 21.42M           | 18.951M         |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 40.2M            | 37.613M         | 37M6D1D  | 39.9M            | 37.517M         |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 82.2M            | 77.049M         | 77M0D1D  | 81.6M            | 76.954M         |
| 5.725-5.85GHz                  | -                | -               | -        | -                | -               |
| 802.11a_Nss1,(6Mbps)_2TX       | 16.35M           | 16.624M         | 16M6D1D  | 16.29M           | 16.576M         |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 17.58M           | 17.847M         | 17M8D1D  | 17.52M           | 17.751M         |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 36.3M            | 36.27M          | 36M3D1D  | 35.7M            | 36.222M         |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 17.58M           | 17.823M         | 17M8D1D  | 17.55M           | 17.775M         |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 36.36M           | 36.27M          | 36M3D1D  | 36M              | 36.222M         |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 75.72M           | 75.706M         | 75M7D1D  | 75.36M           | 75.61M          |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 18.93M           | 19.022M         | 19M0D1D  | 18.66M           | 18.975M         |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 37.26M           | 37.565M         | 37M6D1D  | 36.84M           | 37.517M         |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 75.96M           | 76.954M         | 77M0D1D  | 75M              | 76.858M         |

**Max-N dB** = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

**Max-OBW** = Maximum 99% occupied bandwidth;

**Min-N dB** = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

**Min-OBW** = Minimum 99% occupied bandwidth;

**Result**

| Mode                           | Result | Limit<br>(Hz) | Port 1-N dB<br>(Hz) | Port 1-OBW<br>(Hz) | Port 2-N dB<br>(Hz) | Port 2-OBW<br>(Hz) |
|--------------------------------|--------|---------------|---------------------|--------------------|---------------------|--------------------|
| 802.11a_Nss1,(6Mbps)_2TX       | -      | -             | -                   | -                  | -                   | -                  |
| 5180MHz                        | Pass   | Inf           | 21.45M              | 16.6M              | 21.87M              | 16.576M            |
| 5200MHz                        | Pass   | Inf           | 21.54M              | 16.576M            | 21.99M              | 16.576M            |
| 5240MHz                        | Pass   | Inf           | 22.11M              | 16.6M              | 21.57M              | 16.6M              |
| 5745MHz                        | Pass   | 500k          | 16.29M              | 16.576M            | 16.32M              | 16.576M            |
| 5785MHz                        | Pass   | 500k          | 16.29M              | 16.624M            | 16.35M              | 16.6M              |
| 5825MHz                        | Pass   | 500k          | 16.35M              | 16.624M            | 16.29M              | 16.576M            |
| 802.11n HT20_Nss1,(MCS0)_2TX   | -      | -             | -                   | -                  | -                   | -                  |
| 5180MHz                        | Pass   | Inf           | 21.96M              | 17.799M            | 21.48M              | 17.751M            |
| 5200MHz                        | Pass   | Inf           | 21.81M              | 17.775M            | 21.51M              | 17.775M            |
| 5240MHz                        | Pass   | Inf           | 21.81M              | 17.823M            | 21.48M              | 17.751M            |
| 5745MHz                        | Pass   | 500k          | 17.52M              | 17.847M            | 17.58M              | 17.751M            |
| 5785MHz                        | Pass   | 500k          | 17.55M              | 17.775M            | 17.55M              | 17.751M            |
| 5825MHz                        | Pass   | 500k          | 17.52M              | 17.799M            | 17.55M              | 17.775M            |
| 802.11n HT40_Nss1,(MCS0)_2TX   | -      | -             | -                   | -                  | -                   | -                  |
| 5190MHz                        | Pass   | Inf           | 40.2M               | 36.222M            | 39.48M              | 36.222M            |
| 5230MHz                        | Pass   | Inf           | 40.2M               | 36.222M            | 39.42M              | 36.222M            |
| 5755MHz                        | Pass   | 500k          | 35.7M               | 36.27M             | 36M                 | 36.222M            |
| 5795MHz                        | Pass   | 500k          | 35.7M               | 36.222M            | 36.3M               | 36.27M             |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 5180MHz                        | Pass   | Inf           | 21.78M              | 17.775M            | 21.66M              | 17.775M            |
| 5200MHz                        | Pass   | Inf           | 21.81M              | 17.799M            | 21.93M              | 17.775M            |
| 5240MHz                        | Pass   | Inf           | 21.75M              | 17.775M            | 21.66M              | 17.727M            |
| 5745MHz                        | Pass   | 500k          | 17.55M              | 17.799M            | 17.58M              | 17.775M            |
| 5785MHz                        | Pass   | 500k          | 17.55M              | 17.799M            | 17.58M              | 17.799M            |
| 5825MHz                        | Pass   | 500k          | 17.55M              | 17.823M            | 17.55M              | 17.775M            |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 5190MHz                        | Pass   | Inf           | 40.2M               | 36.27M             | 39.78M              | 36.27M             |
| 5230MHz                        | Pass   | Inf           | 40.14M              | 36.27M             | 39.84M              | 36.222M            |
| 5755MHz                        | Pass   | 500k          | 36.06M              | 36.27M             | 36M                 | 36.27M             |
| 5795MHz                        | Pass   | 500k          | 36M                 | 36.222M            | 36.36M              | 36.222M            |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 5210MHz                        | Pass   | Inf           | 81.72M              | 75.802M            | 81.48M              | 75.706M            |
| 5775MHz                        | Pass   | 500k          | 75.72M              | 75.706M            | 75.36M              | 75.61M             |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 5180MHz                        | Pass   | Inf           | 21.69M              | 18.975M            | 21.54M              | 18.975M            |
| 5200MHz                        | Pass   | Inf           | 21.75M              | 18.999M            | 21.66M              | 18.951M            |
| 5240MHz                        | Pass   | Inf           | 21.69M              | 18.951M            | 21.42M              | 18.975M            |
| 5745MHz                        | Pass   | 500k          | 18.78M              | 18.975M            | 18.9M               | 18.975M            |
| 5785MHz                        | Pass   | 500k          | 18.9M               | 19.022M            | 18.66M              | 18.999M            |
| 5825MHz                        | Pass   | 500k          | 18.93M              | 18.999M            | 18.9M               | 18.975M            |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 5190MHz                        | Pass   | Inf           | 40.2M               | 37.613M            | 39.9M               | 37.565M            |
| 5230MHz                        | Pass   | Inf           | 40.08M              | 37.565M            | 39.9M               | 37.517M            |

| Mode                           | Result | Limit<br>(Hz) | Port 1-N dB<br>(Hz) | Port 1-OBW<br>(Hz) | Port 2-N dB<br>(Hz) | Port 2-OBW<br>(Hz) |
|--------------------------------|--------|---------------|---------------------|--------------------|---------------------|--------------------|
| 5755MHz                        | Pass   | 500k          | 36.84M              | 37.517M            | 37.14M              | 37.517M            |
| 5795MHz                        | Pass   | 500k          | 37.08M              | 37.565M            | 37.26M              | 37.565M            |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 5210MHz                        | Pass   | Inf           | 82.2M               | 76.954M            | 81.6M               | 77.049M            |
| 5775MHz                        | Pass   | 500k          | 75.96M              | 76.858M            | 75M                 | 76.954M            |

**Port X-N dB** = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

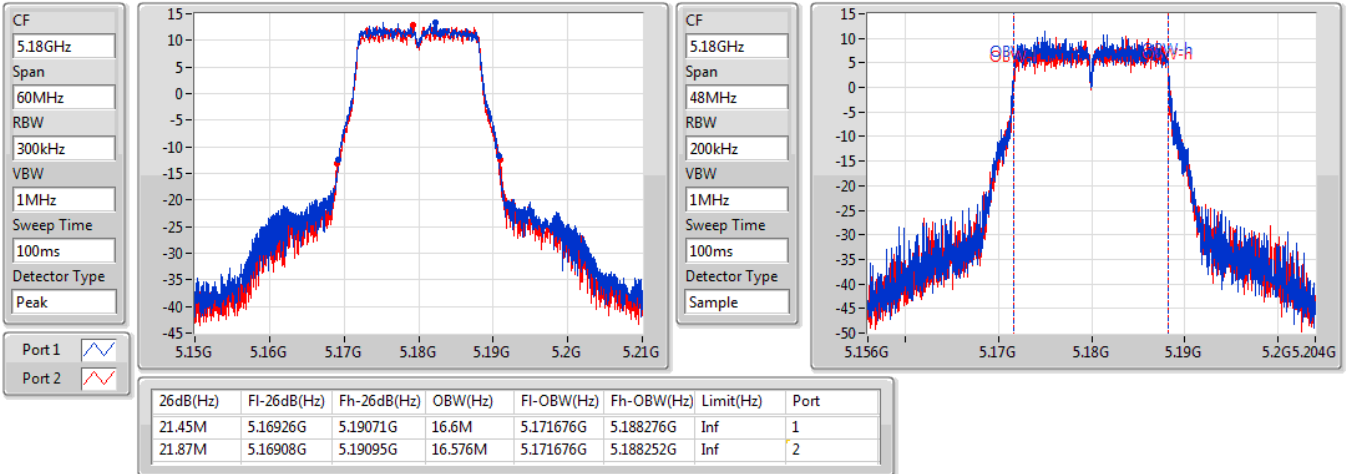
**Port X-OBW** = Port X 99% occupied bandwidth;

## 802.11a\_Nss1,(6Mbps)\_2TX

EBW

5180MHz

15/07/2020

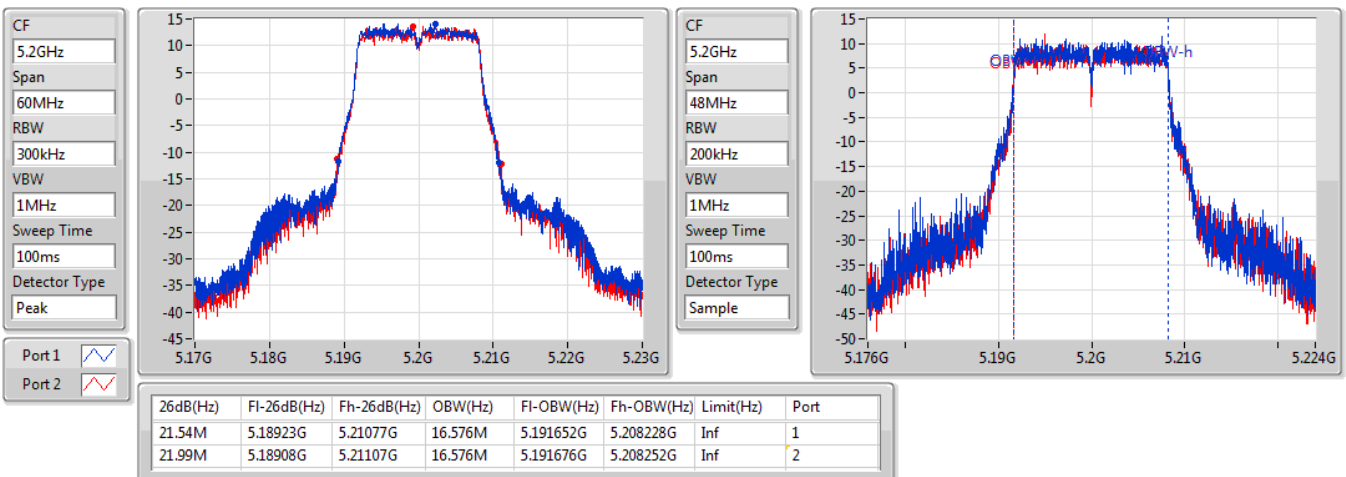


## 802.11a\_Nss1,(6Mbps)\_2TX

EBW

5200MHz

15/07/2020

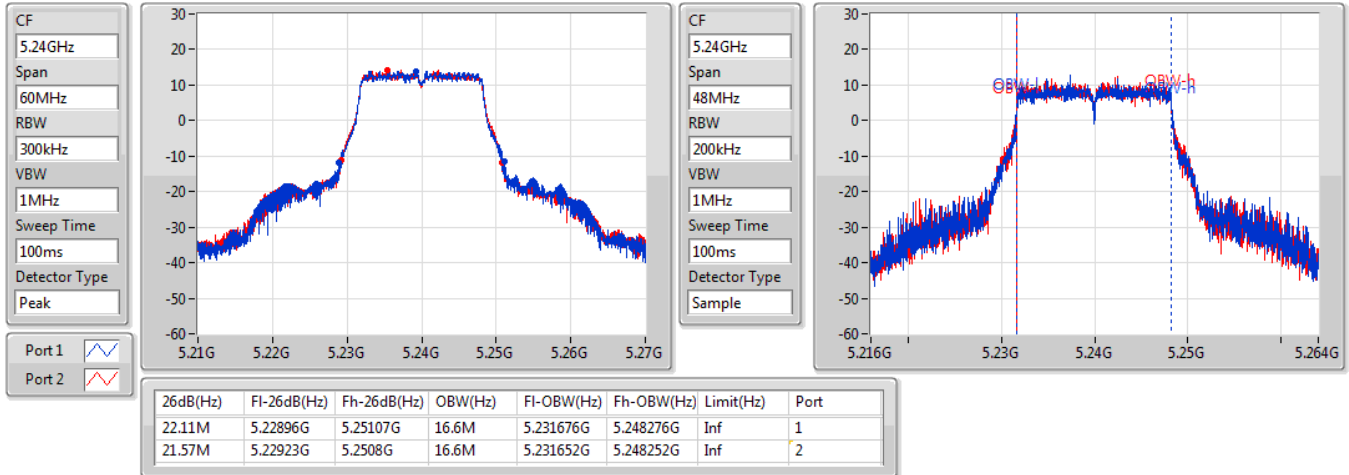


## 802.11a\_Nss1,(6Mbps)\_2TX

EBW

5240MHz

17/07/2020

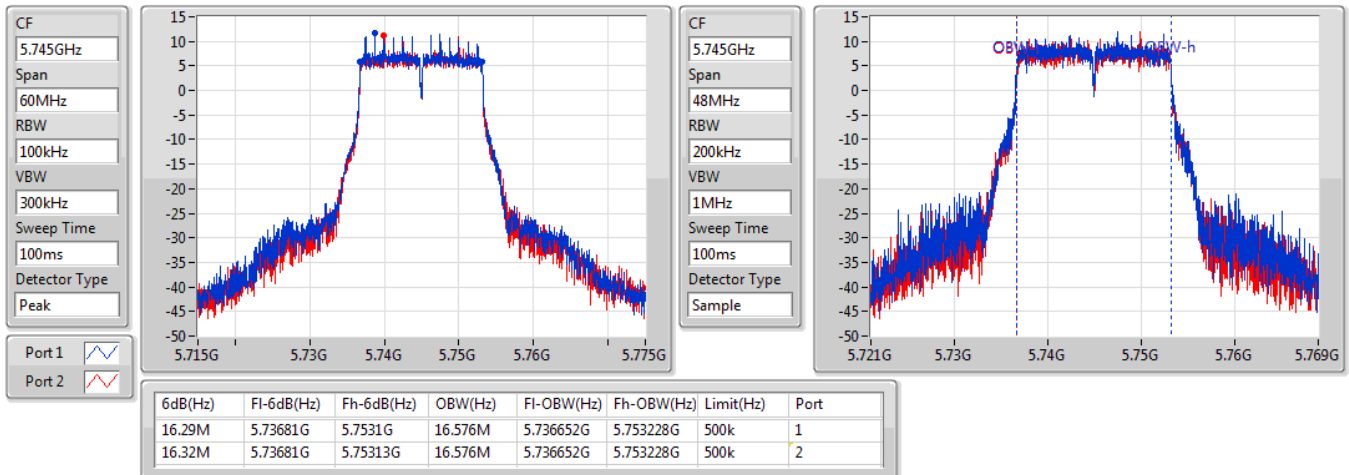


## 802.11a\_Nss1,(6Mbps)\_2TX

EBW

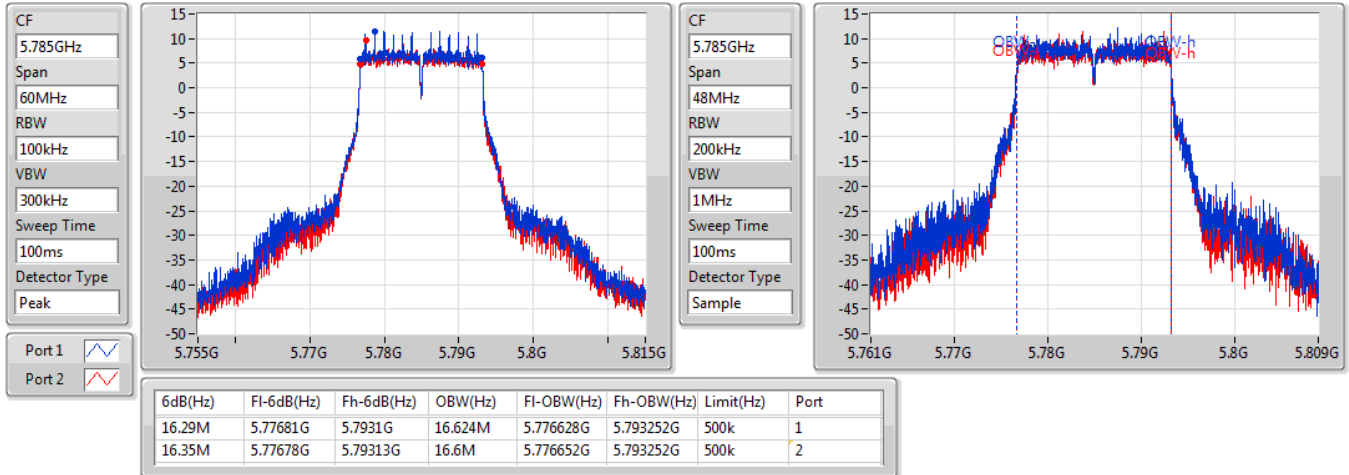
5745MHz

16/07/2020

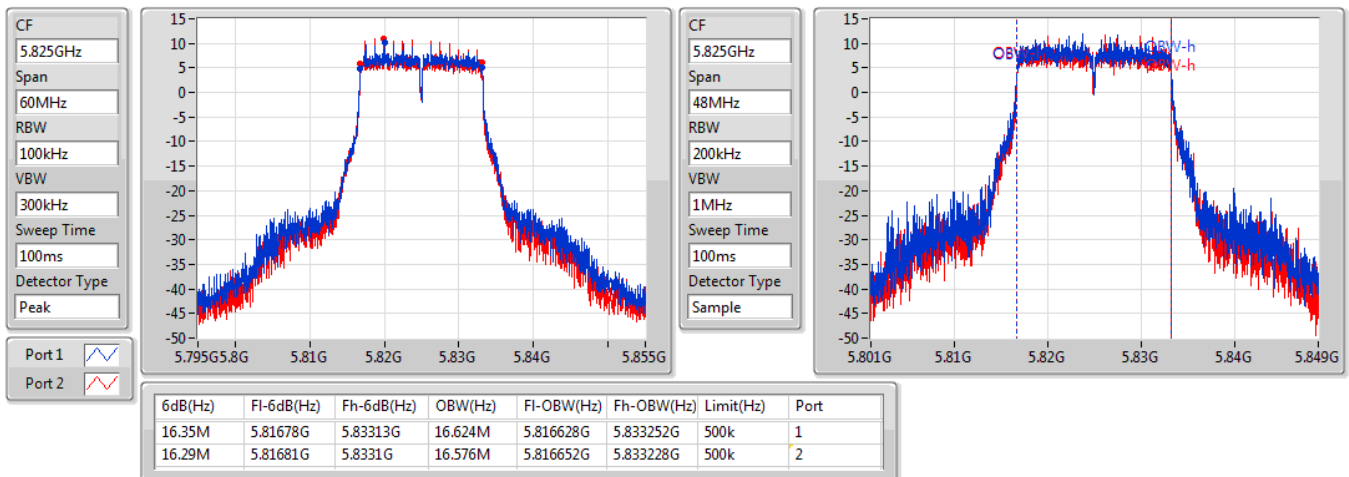


**802.11a\_Nss1,(6Mbps)\_2TX**
**EBW**
**5785MHz**

16/07/2020

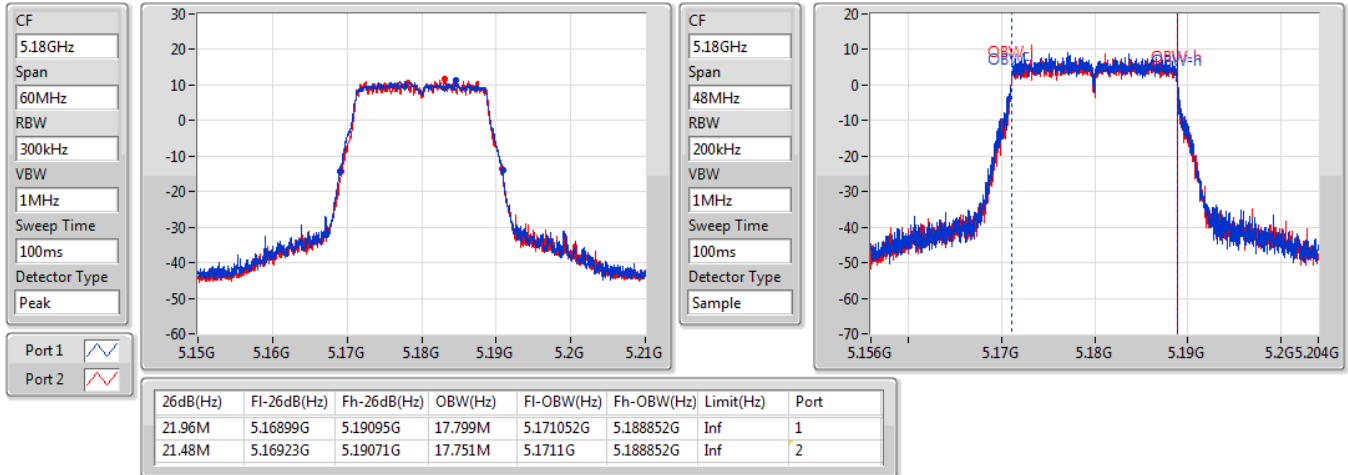

**802.11a\_Nss1,(6Mbps)\_2TX**
**EBW**
**5825MHz**

16/07/2020

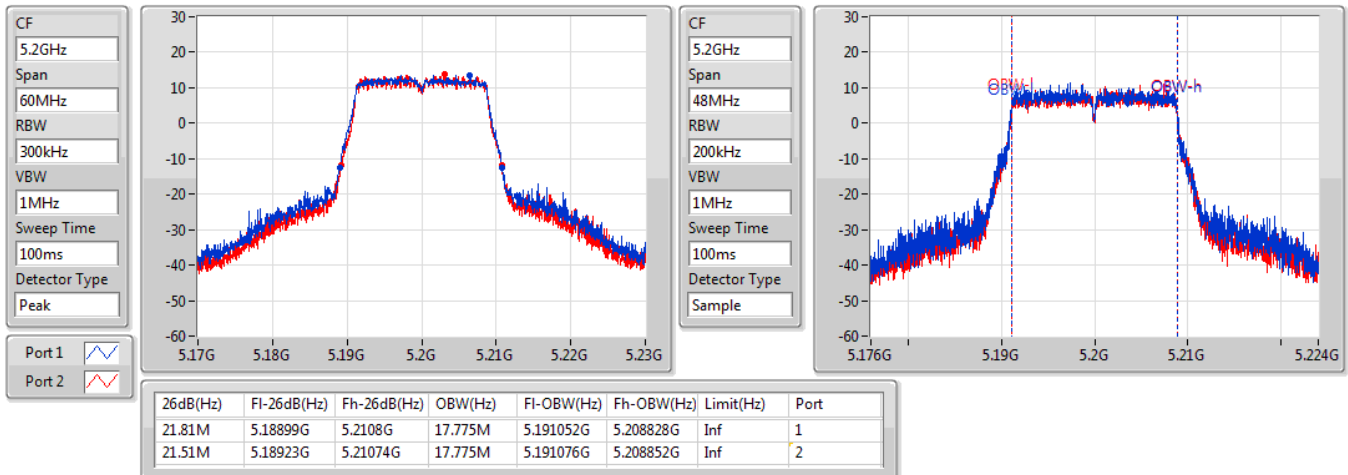


**802.11n HT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5180MHz**

22/07/2020

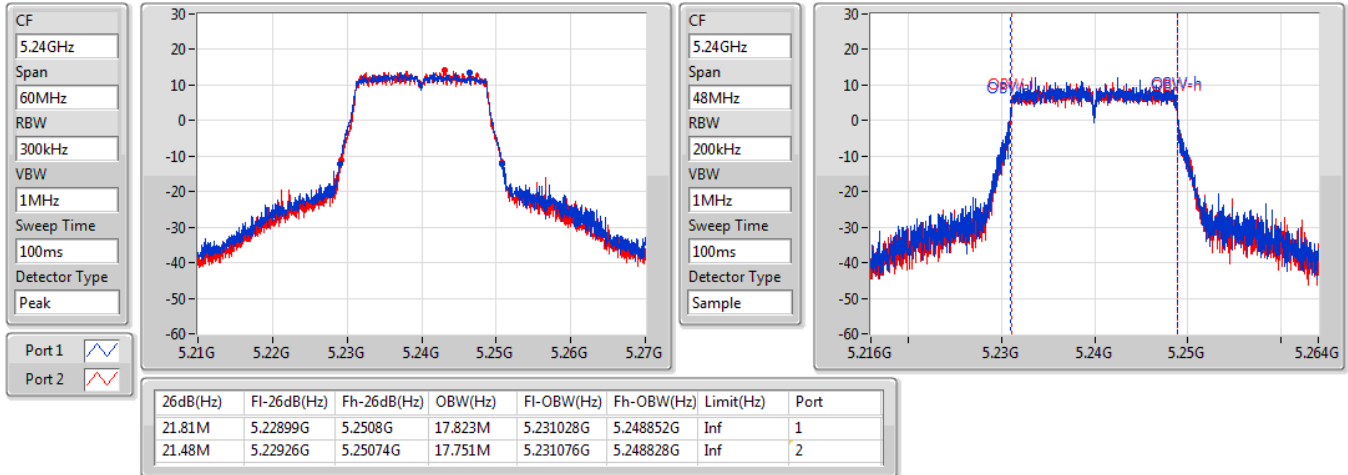

**802.11n HT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5200MHz**

22/07/2020

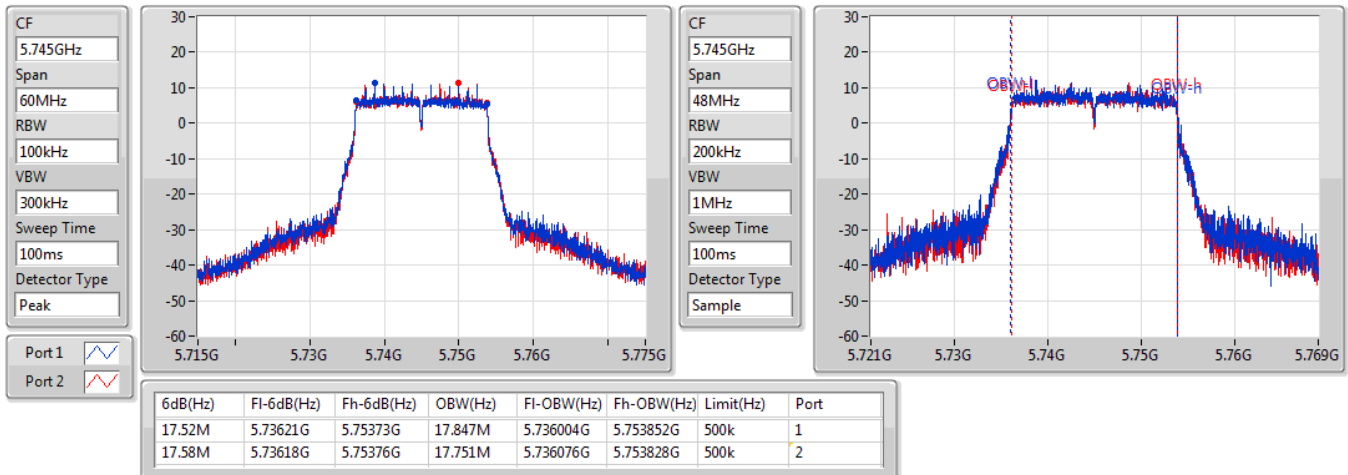


**802.11n HT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5240MHz**

22/07/2020

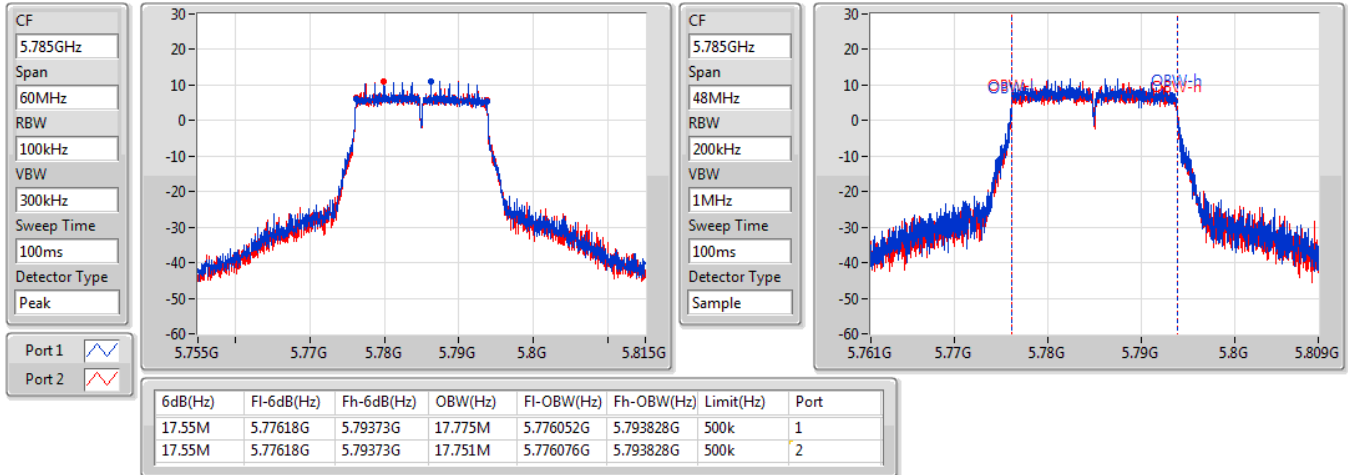

**802.11n HT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5745MHz**

22/07/2020

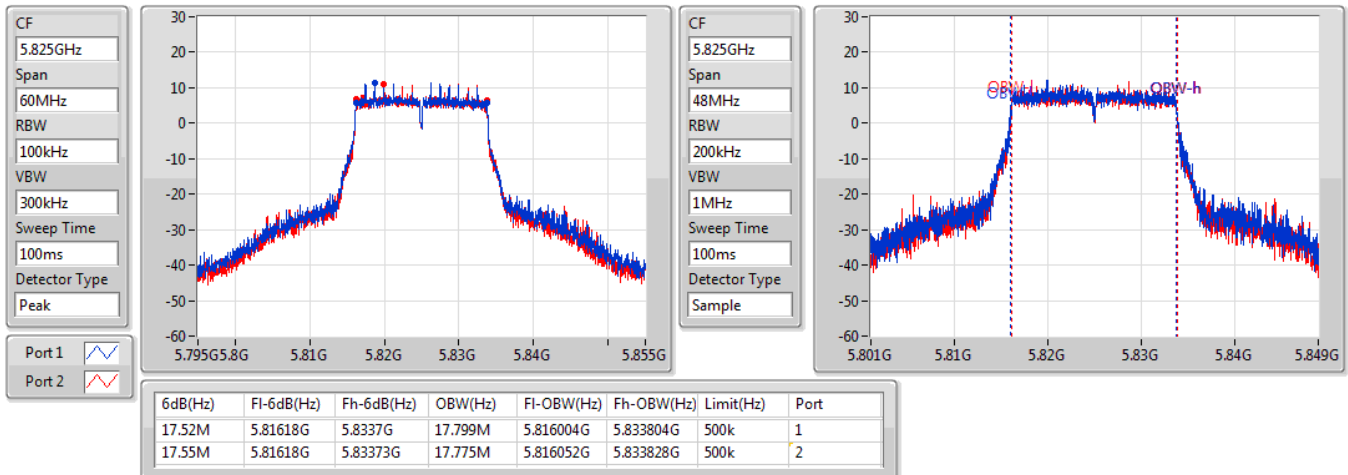


**802.11n HT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5785MHz**

22/07/2020

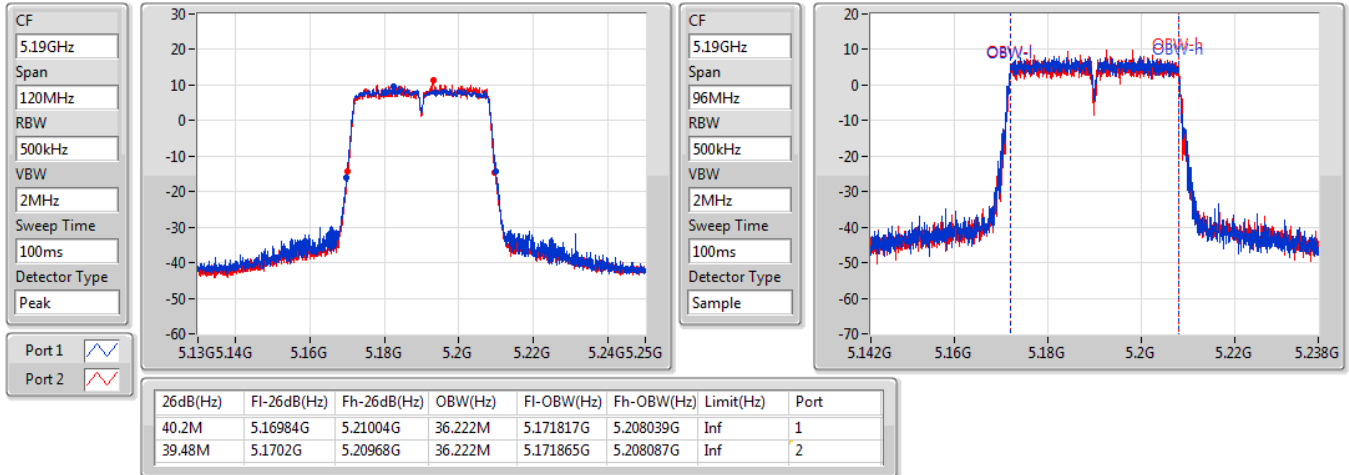

**802.11n HT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5825MHz**

22/07/2020

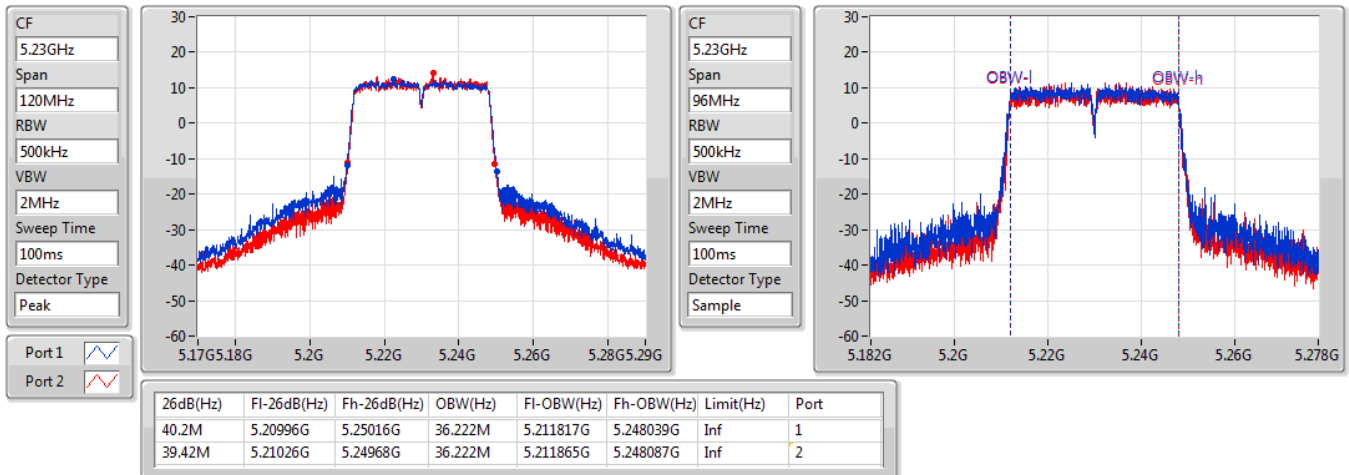


**802.11n HT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5190MHz**

22/07/2020

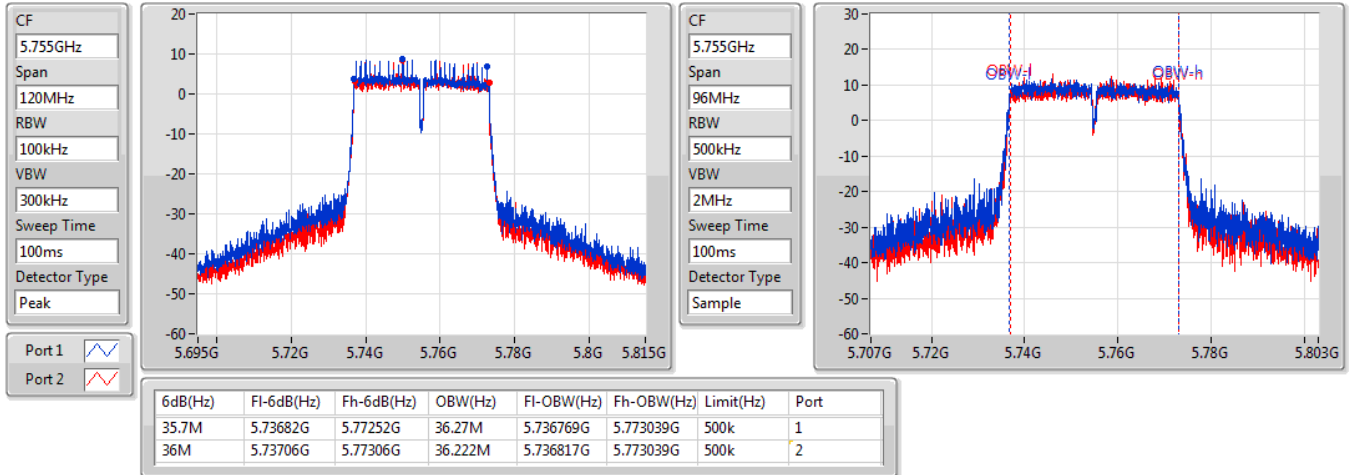

**802.11n HT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5230MHz**

22/07/2020

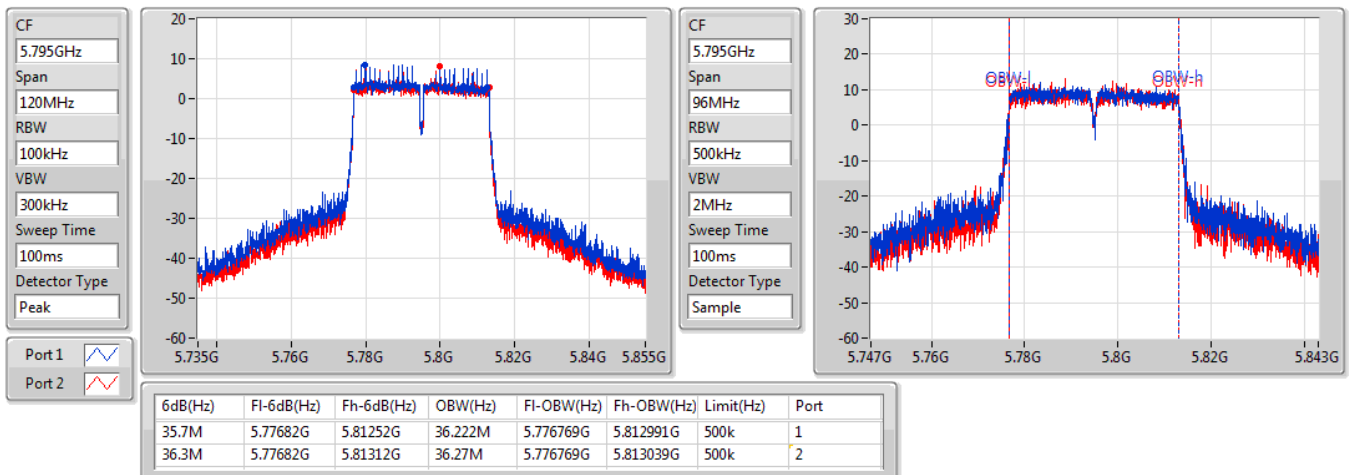


**802.11n HT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5755MHz**

22/07/2020

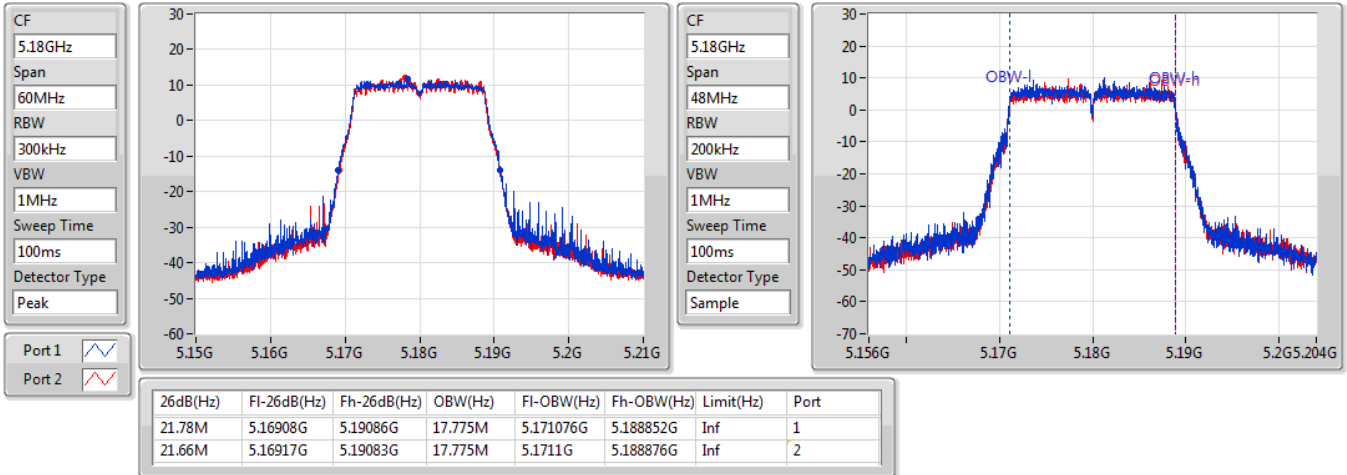

**802.11n HT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5795MHz**

22/07/2020

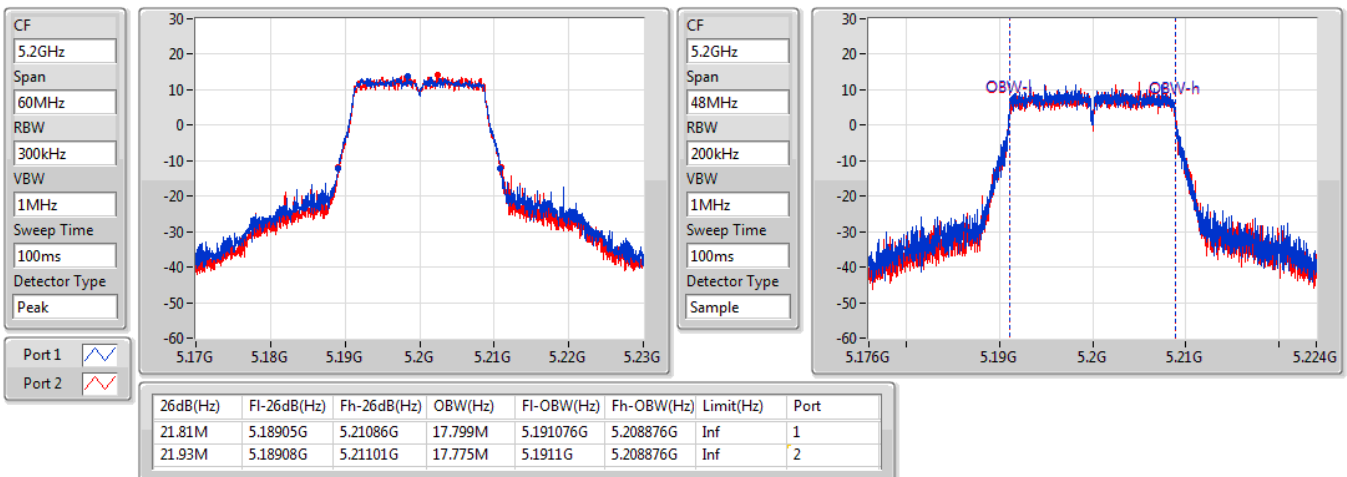


**802.11ac VHT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5180MHz**

17/07/2020

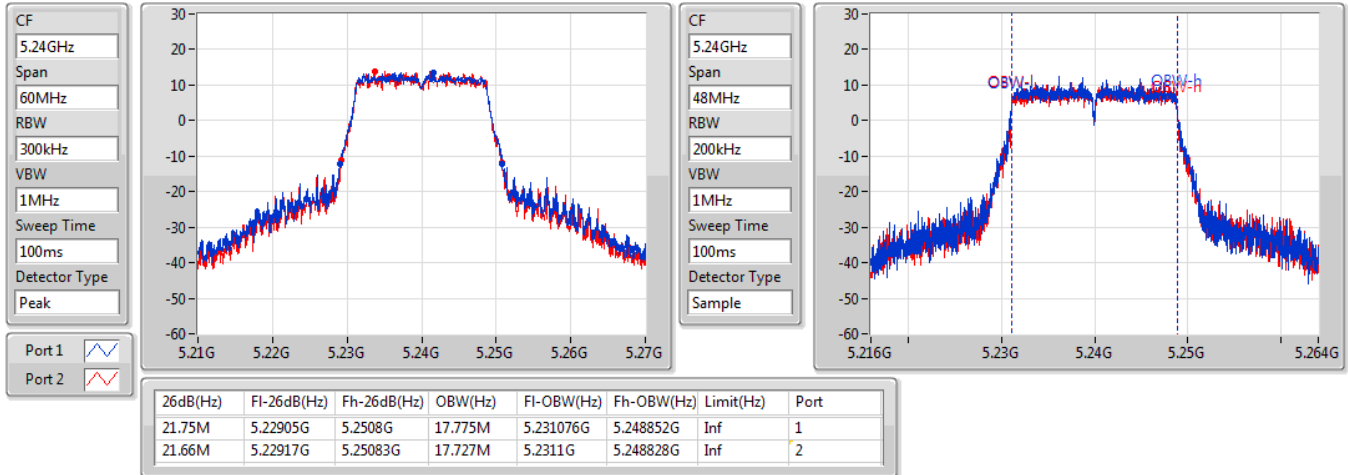

**802.11ac VHT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5200MHz**

17/07/2020

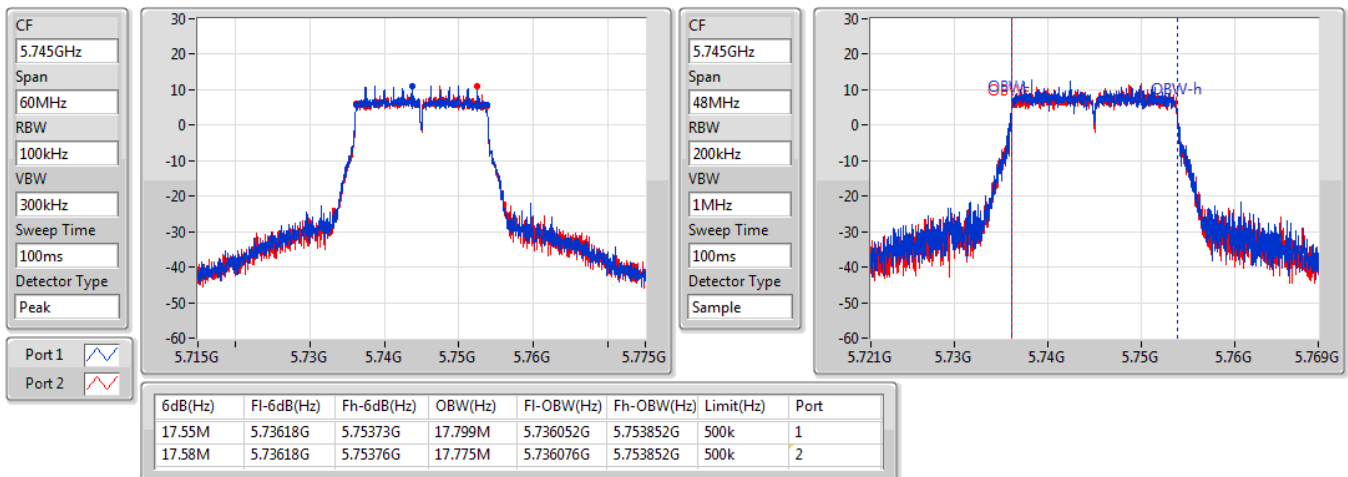


**802.11ac VHT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5240MHz**

17/07/2020


**802.11ac VHT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5745MHz**

17/07/2020

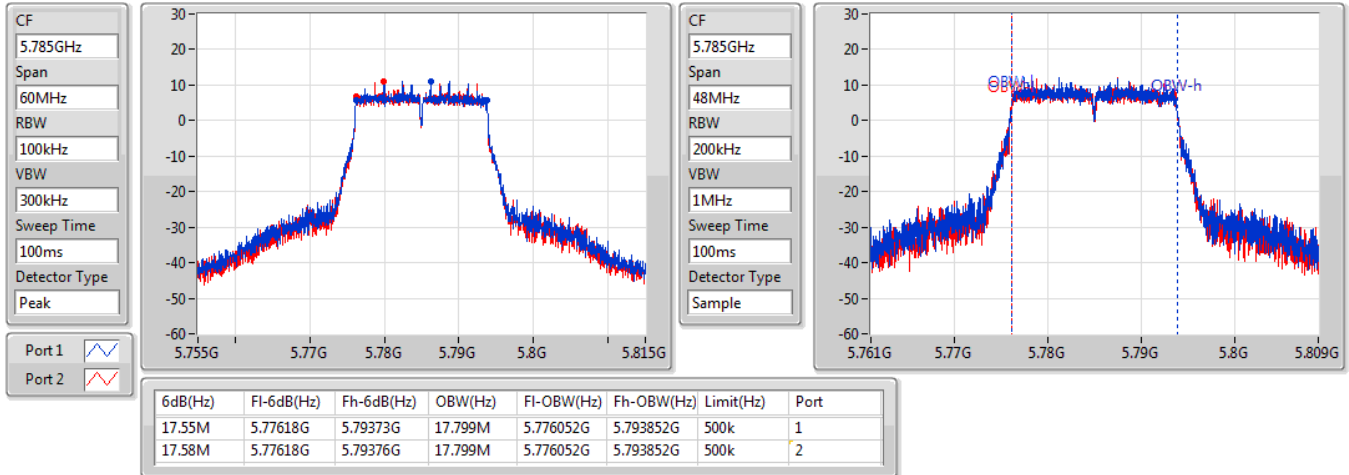


## 802.11ac VHT20\_Nss1,(MCS0)\_2TX

EBW

5785MHz

17/07/2020

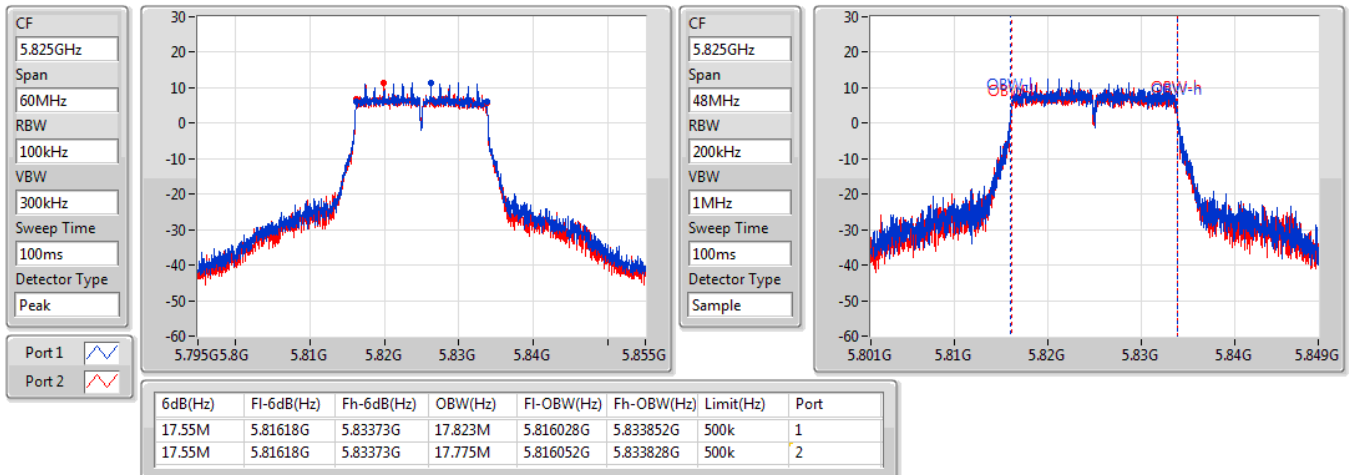


## 802.11ac VHT20\_Nss1,(MCS0)\_2TX

EBW

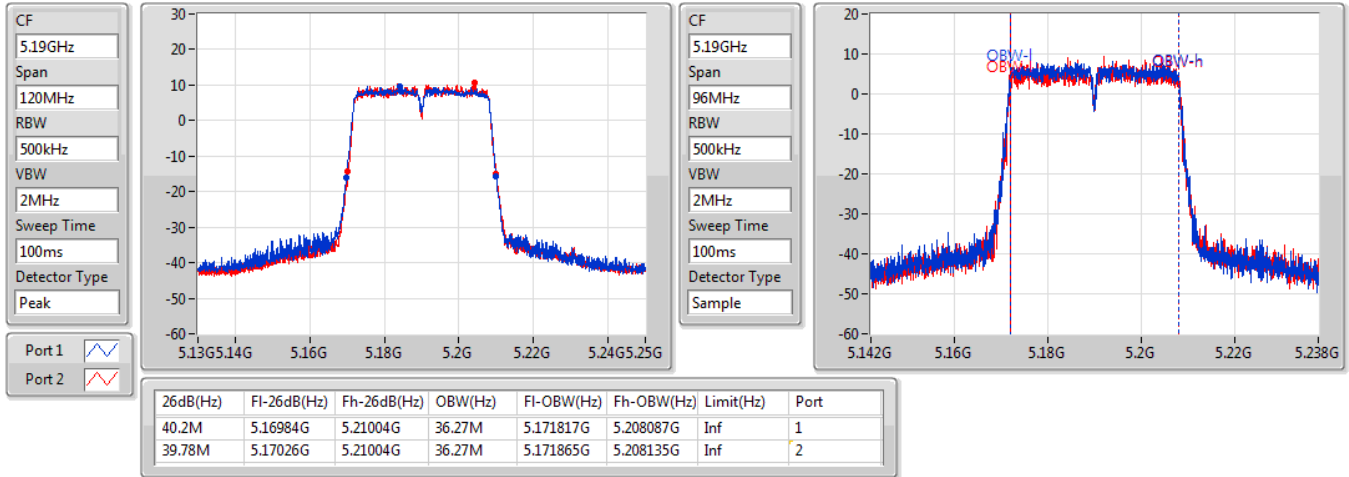
5825MHz

17/07/2020

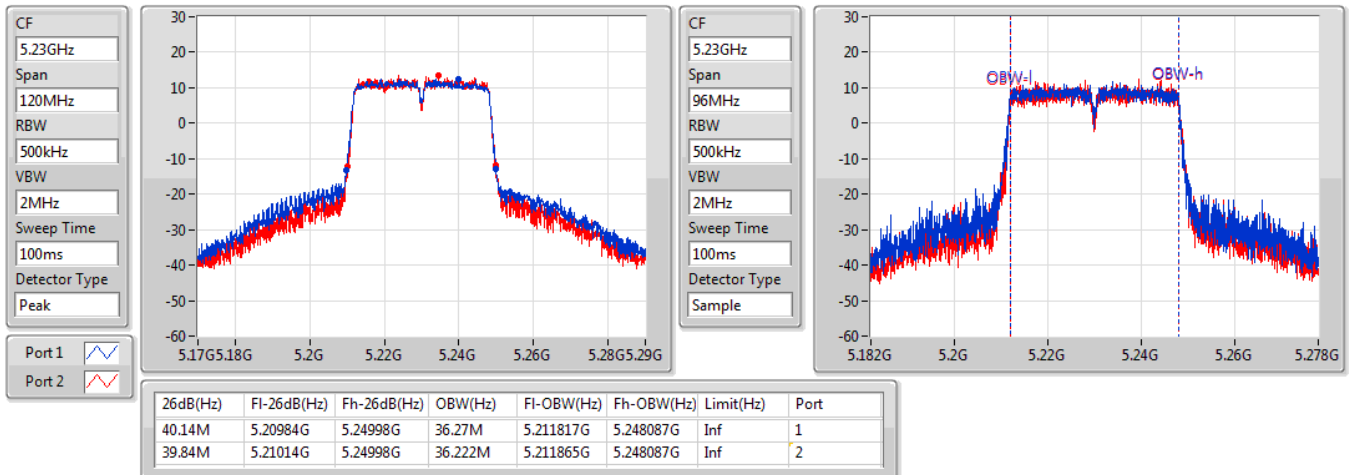


**802.11ac VHT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5190MHz**

17/07/2020

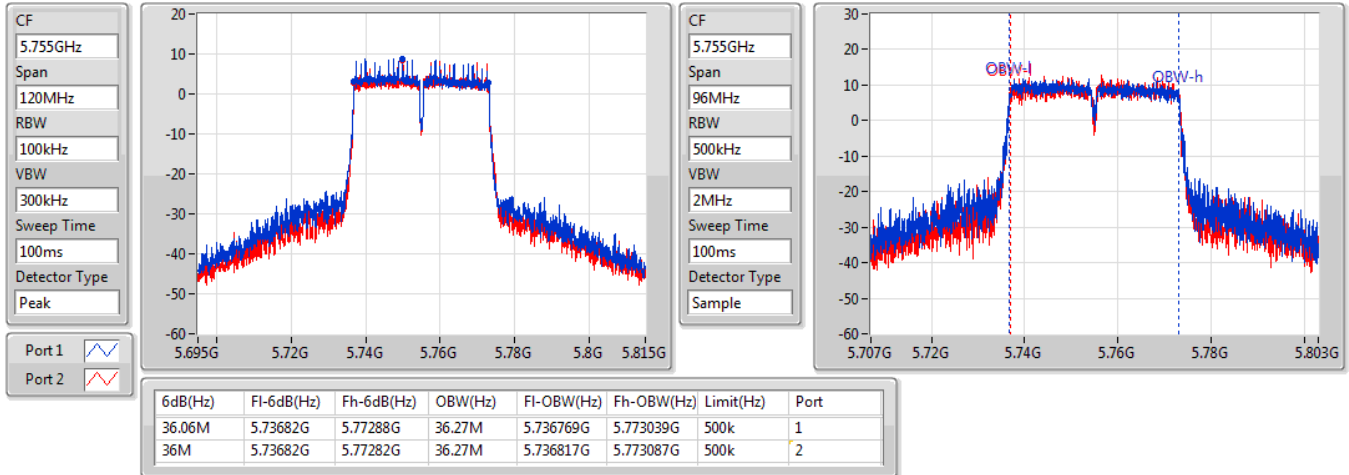

**802.11ac VHT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5230MHz**

17/07/2020

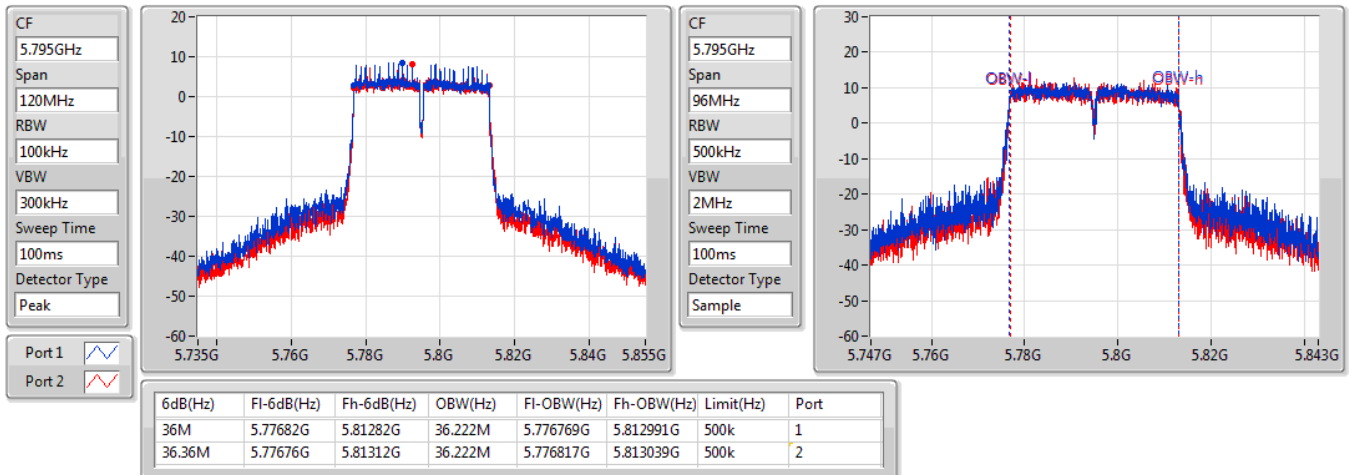


**802.11ac VHT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5755MHz**

17/07/2020

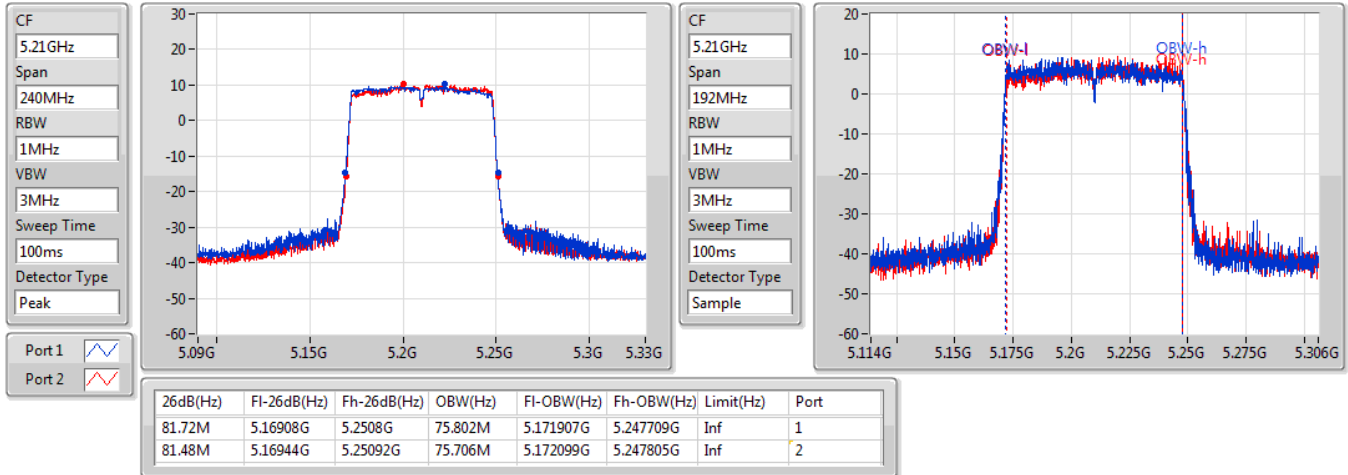

**802.11ac VHT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5795MHz**

17/07/2020

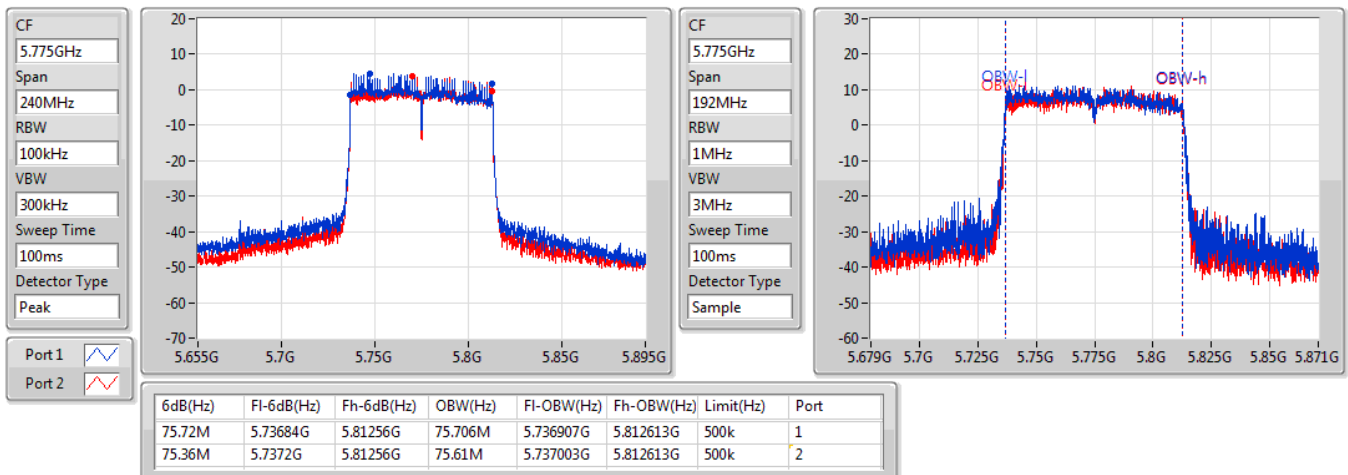


**802.11ac VHT80\_Nss1,(MCS0)\_2TX**
**EBW**
**5210MHz**

18/07/2020

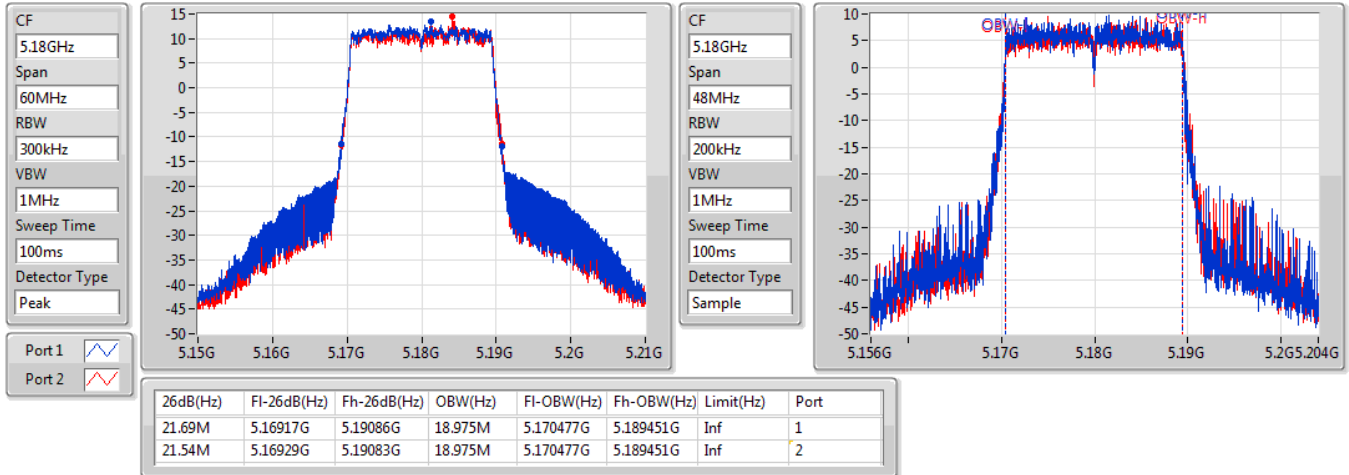

**802.11ac VHT80\_Nss1,(MCS0)\_2TX**
**EBW**
**5775MHz**

18/07/2020

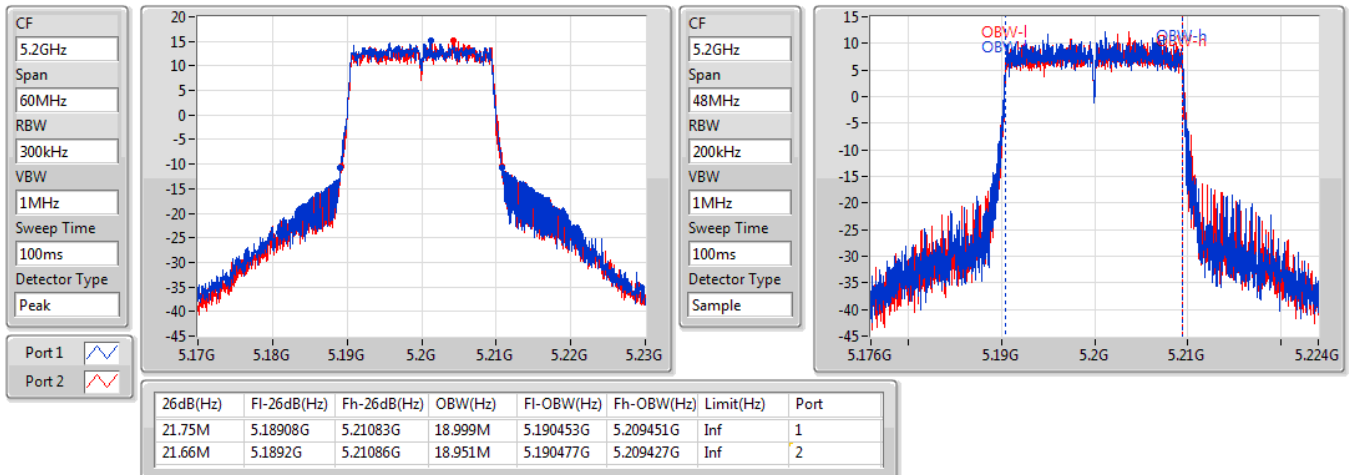


**802.11ax HEW20\_Nss1,(MCS0)\_2TX**
**EBW**
**5180MHz**

16/07/2020

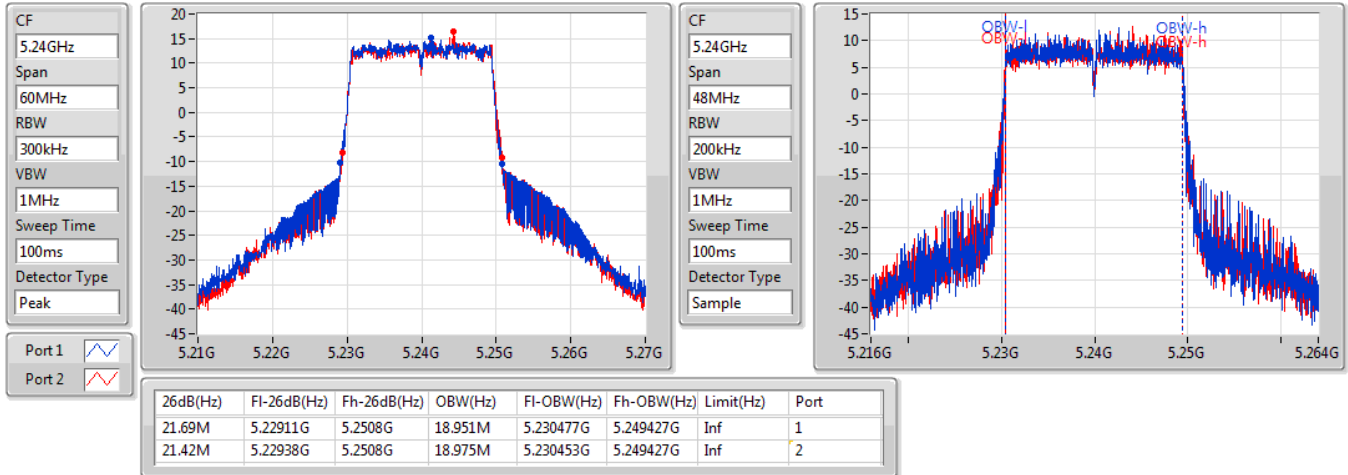

**802.11ax HEW20\_Nss1,(MCS0)\_2TX**
**EBW**
**5200MHz**

16/07/2020

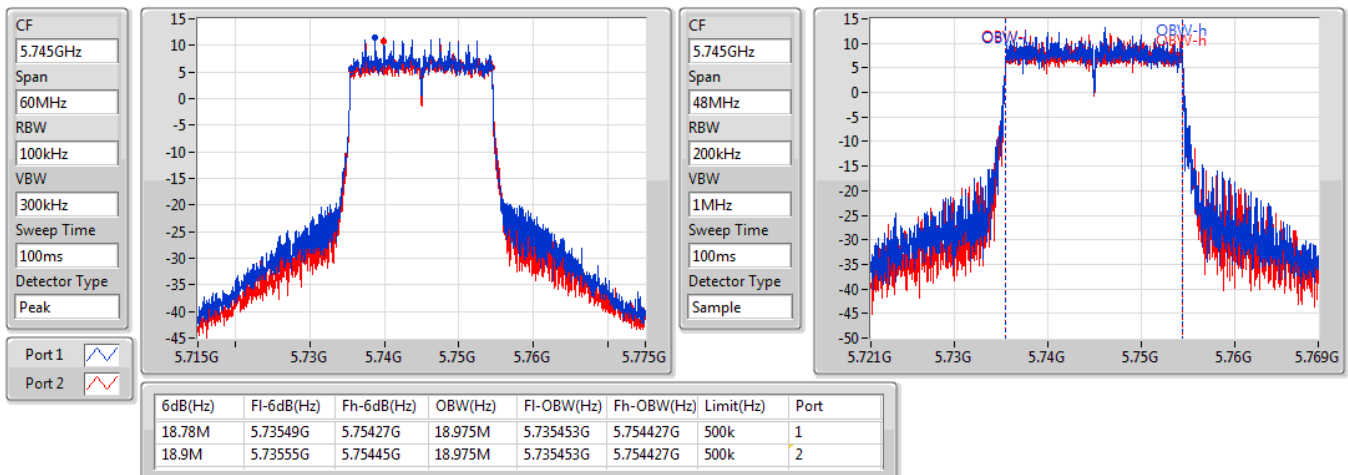


**802.11ax HEW20\_Nss1,(MCS0)\_2TX**
**EBW**
**5240MHz**

16/07/2020

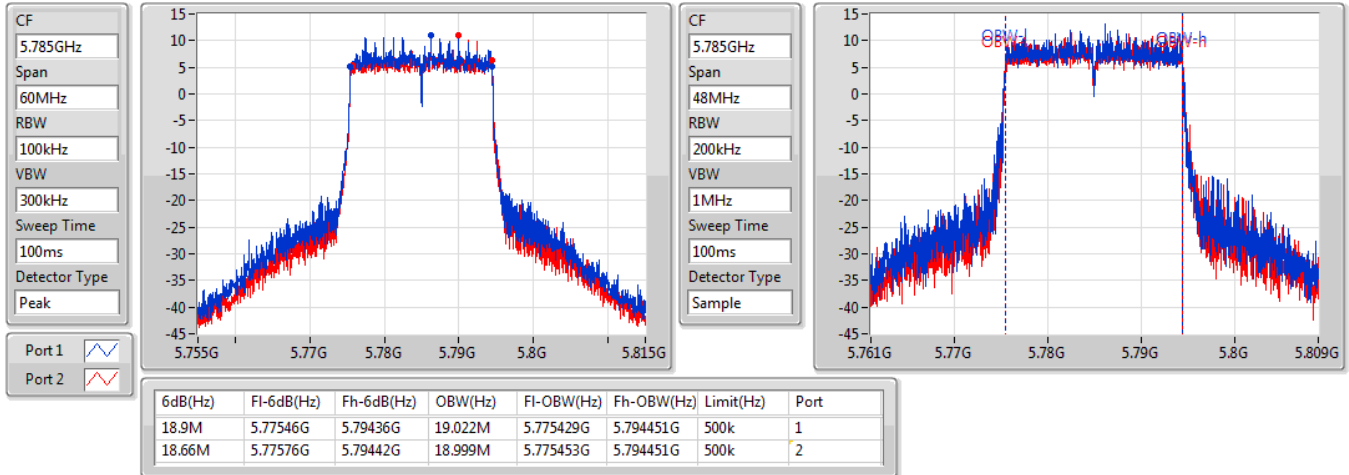

**802.11ax HEW20\_Nss1,(MCS0)\_2TX**
**EBW**
**5745MHz**

16/07/2020

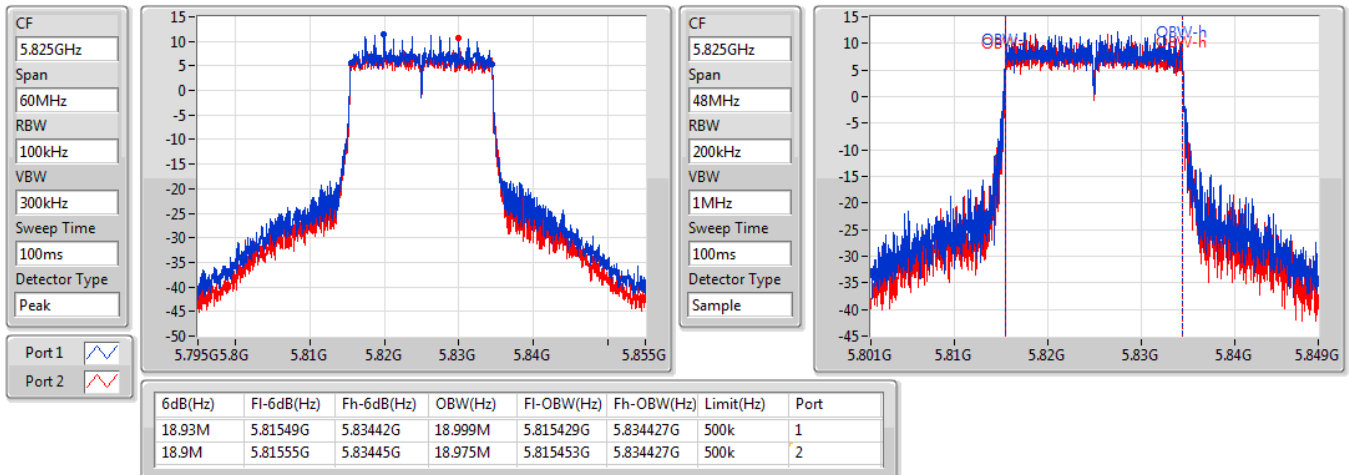


**802.11ax HEW20\_Nss1,(MCS0)\_2TX**
**EBW**
**5785MHz**

16/07/2020

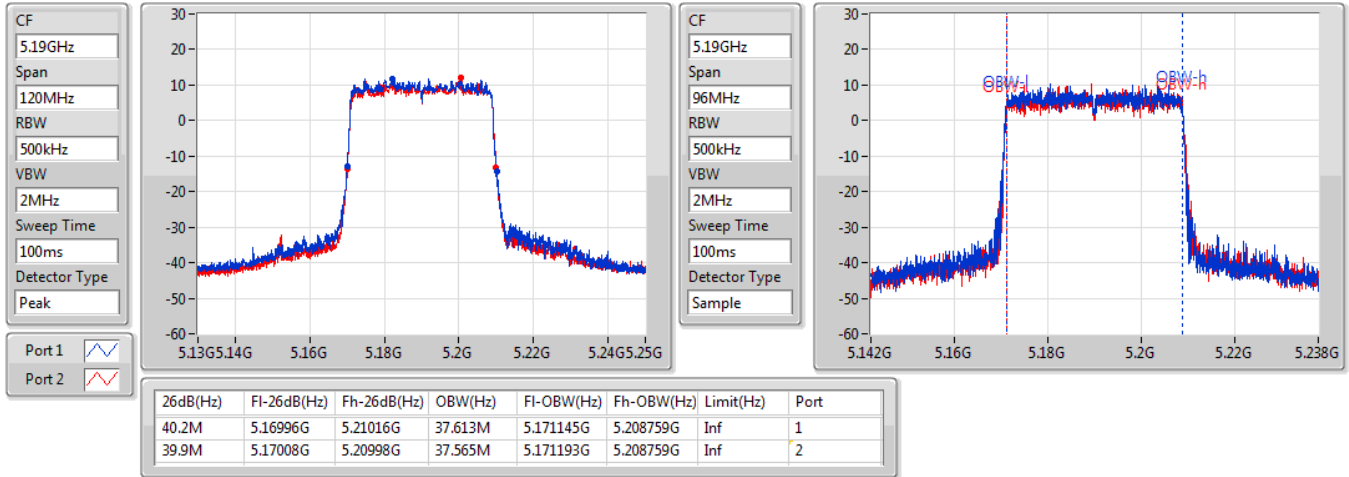

**802.11ax HEW20\_Nss1,(MCS0)\_2TX**
**EBW**
**5825MHz**

16/07/2020

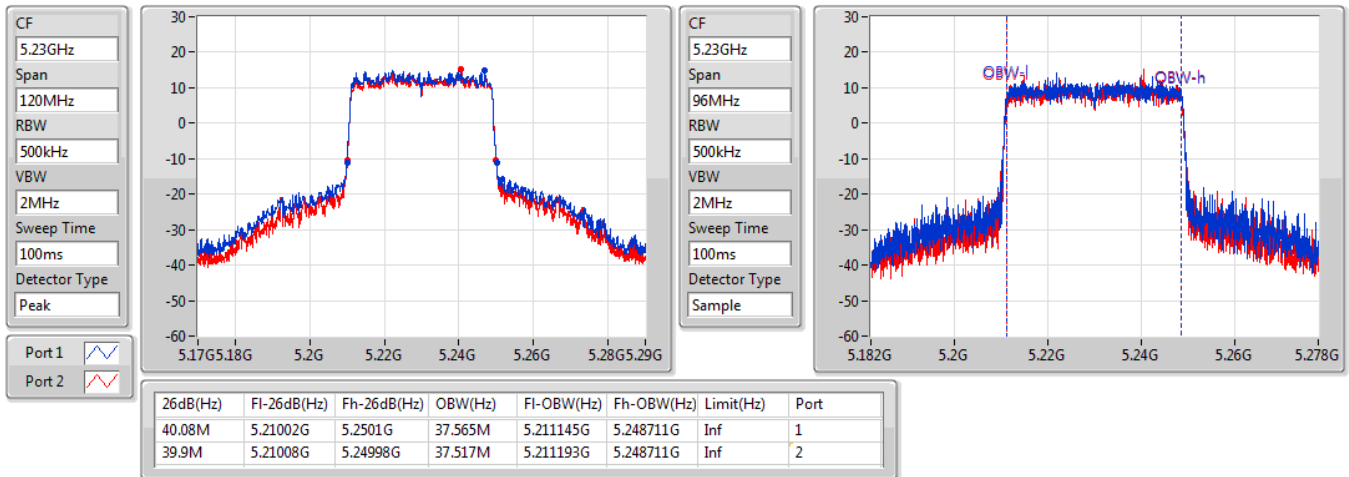


**802.11ax HEW40\_Nss1,(MCS0)\_2TX**
**EBW**
**5190MHz**

17/07/2020


**802.11ax HEW40\_Nss1,(MCS0)\_2TX**
**EBW**
**5230MHz**

17/07/2020

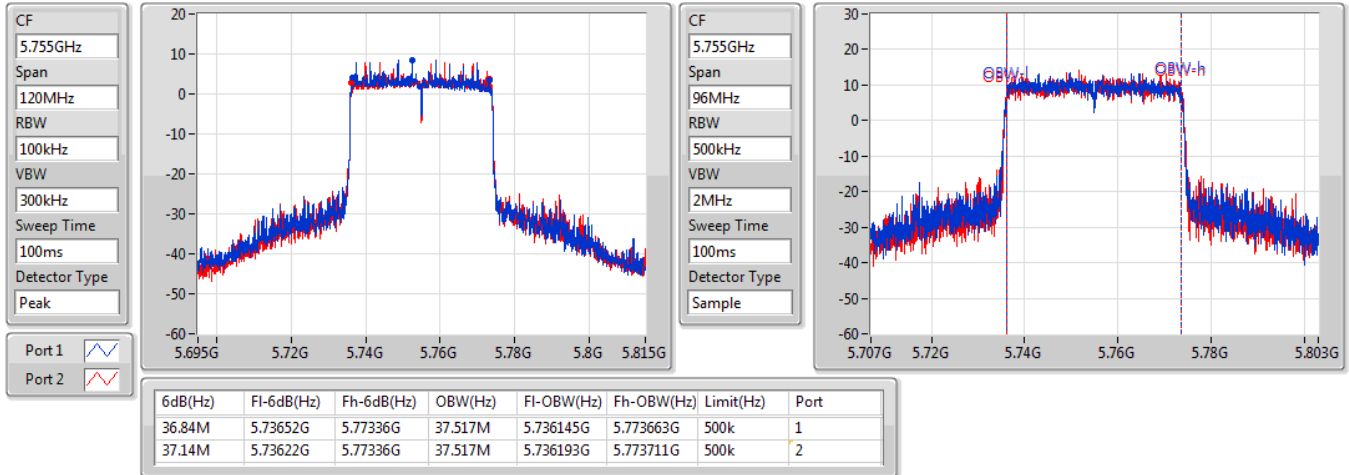


## 802.11ax HEW40\_Nss1,(MCS0)\_2TX

EBW

5755MHz

17/07/2020

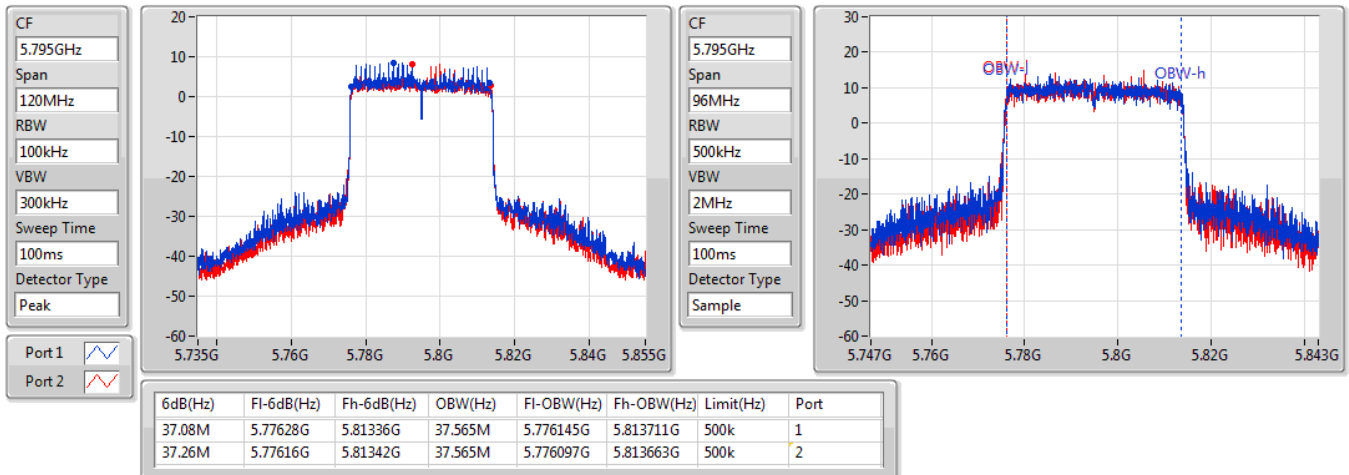


## 802.11ax HEW40\_Nss1,(MCS0)\_2TX

EBW

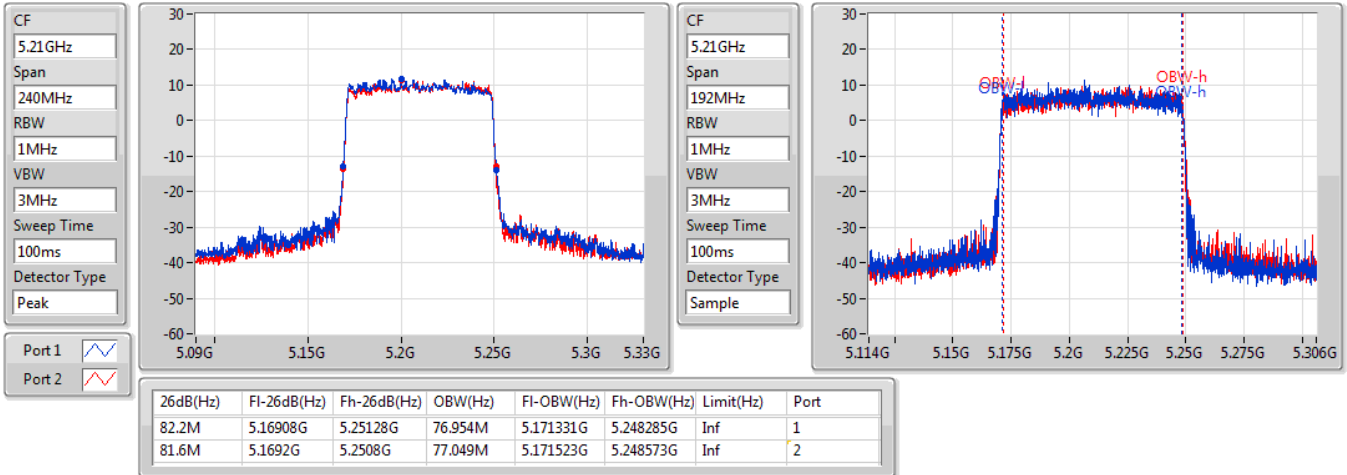
5795MHz

17/07/2020

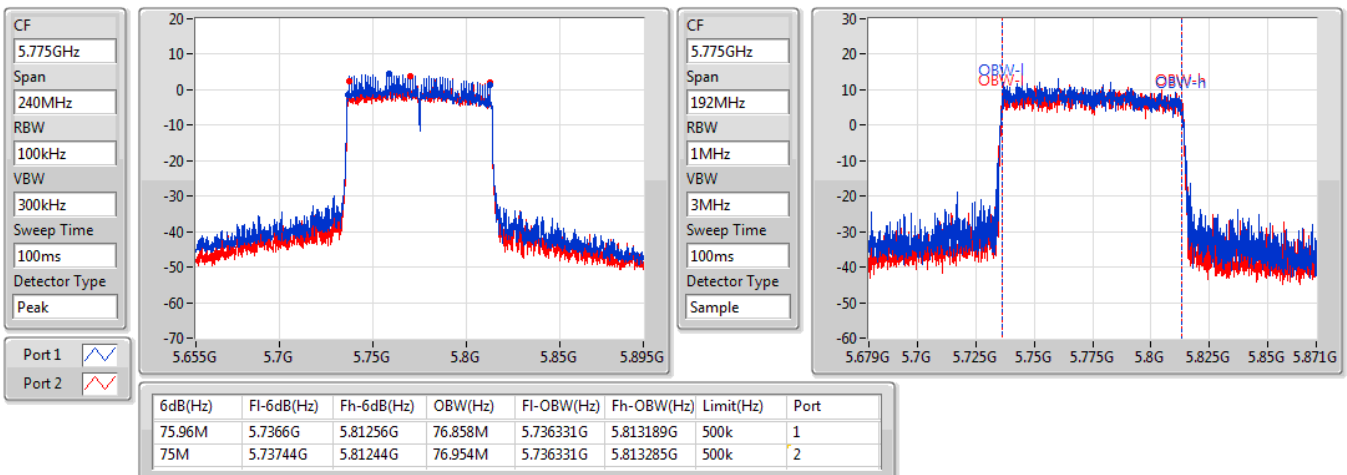


**802.11ax HEW80\_Nss1,(MCS0)\_2TX**
**EBW**
**5210MHz**

17/07/2020


**802.11ax HEW80\_Nss1,(MCS0)\_2TX**
**EBW**
**5775MHz**

17/07/2020



**Summary**

| Mode                           | Max-N dB<br>(Hz) | Max-OBW<br>(Hz) | ITU-Code | Min-N dB<br>(Hz) | Min-OBW<br>(Hz) |
|--------------------------------|------------------|-----------------|----------|------------------|-----------------|
| 5.15-5.25GHz                   | -                | -               | -        | -                | -               |
| 802.11a_Nss1,(6Mbps)_2TX       | 22.05M           | 16.6M           | 16M6D1D  | 21.45M           | 16.576M         |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 21.87M           | 17.775M         | 17M8D1D  | 21.48M           | 17.703M         |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 40.38M           | 36.27M          | 36M3D1D  | 39.48M           | 36.174M         |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 21.9M            | 17.799M         | 17M8D1D  | 21.51M           | 17.751M         |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 40.26M           | 36.27M          | 36M3D1D  | 39.9M            | 36.222M         |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 81.96M           | 75.706M         | 75M7D1D  | 81.48M           | 75.61M          |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 21.72M           | 18.999M         | 19M0D1D  | 21.45M           | 18.975M         |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 40.02M           | 37.565M         | 37M6D1D  | 39.84M           | 37.517M         |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 82.08M           | 77.049M         | 77M0D1D  | 81.84M           | 77.049M         |
| 5.725-5.85GHz                  | -                | -               | -        | -                | -               |
| 802.11a_Nss1,(6Mbps)_2TX       | 16.35M           | 16.648M         | 16M6D1D  | 16.32M           | 16.6M           |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 17.58M           | 17.847M         | 17M8D1D  | 17.52M           | 17.727M         |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 36.3M            | 36.27M          | 36M3D1D  | 35.4M            | 36.222M         |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 17.58M           | 17.847M         | 17M8D1D  | 17.55M           | 17.775M         |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 36.3M            | 36.27M          | 36M3D1D  | 35.7M            | 36.222M         |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 75.48M           | 75.802M         | 75M8D1D  | 75.36M           | 75.802M         |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 18.87M           | 19.022M         | 19M0D1D  | 18.78M           | 18.975M         |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 37.2M            | 37.565M         | 37M6D1D  | 36.36M           | 37.469M         |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 76.08M           | 77.049M         | 77M0D1D  | 75.6M            | 76.954M         |

**Max-N dB** = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

**Max-OBW** = Maximum 99% occupied bandwidth;

**Min-N dB** = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

**Min-OBW** = Minimum 99% occupied bandwidth;

**Result**

| Mode                           | Result | Limit<br>(Hz) | Port 1-N dB<br>(Hz) | Port 1-OBW<br>(Hz) | Port 2-N dB<br>(Hz) | Port 2-OBW<br>(Hz) |
|--------------------------------|--------|---------------|---------------------|--------------------|---------------------|--------------------|
| 802.11a_Nss1,(6Mbps)_2TX       | -      | -             | -                   | -                  | -                   | -                  |
| 5180MHz                        | Pass   | Inf           | 21.45M              | 16.576M            | 21.75M              | 16.576M            |
| 5200MHz                        | Pass   | Inf           | 21.48M              | 16.6M              | 22.05M              | 16.576M            |
| 5240MHz                        | Pass   | Inf           | 21.51M              | 16.576M            | 21.99M              | 16.576M            |
| 5745MHz                        | Pass   | 500k          | 16.35M              | 16.624M            | 16.35M              | 16.624M            |
| 5785MHz                        | Pass   | 500k          | 16.32M              | 16.6M              | 16.32M              | 16.6M              |
| 5825MHz                        | Pass   | 500k          | 16.32M              | 16.648M            | 16.32M              | 16.624M            |
| 802.11n HT20_Nss1,(MCS0)_2TX   | -      | -             | -                   | -                  | -                   | -                  |
| 5180MHz                        | Pass   | Inf           | 21.78M              | 17.775M            | 21.63M              | 17.727M            |
| 5200MHz                        | Pass   | Inf           | 21.87M              | 17.775M            | 21.48M              | 17.703M            |
| 5240MHz                        | Pass   | Inf           | 21.81M              | 17.775M            | 21.51M              | 17.703M            |
| 5745MHz                        | Pass   | 500k          | 17.55M              | 17.799M            | 17.58M              | 17.751M            |
| 5785MHz                        | Pass   | 500k          | 17.52M              | 17.847M            | 17.55M              | 17.727M            |
| 5825MHz                        | Pass   | 500k          | 17.55M              | 17.823M            | 17.58M              | 17.775M            |
| 802.11n HT40_Nss1,(MCS0)_2TX   | -      | -             | -                   | -                  | -                   | -                  |
| 5190MHz                        | Pass   | Inf           | 40.38M              | 36.27M             | 39.54M              | 36.174M            |
| 5230MHz                        | Pass   | Inf           | 40.14M              | 36.222M            | 39.48M              | 36.222M            |
| 5755MHz                        | Pass   | 500k          | 35.4M               | 36.222M            | 36.3M               | 36.27M             |
| 5795MHz                        | Pass   | 500k          | 36.3M               | 36.27M             | 36.3M               | 36.222M            |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 5180MHz                        | Pass   | Inf           | 21.75M              | 17.775M            | 21.66M              | 17.751M            |
| 5200MHz                        | Pass   | Inf           | 21.9M               | 17.799M            | 21.81M              | 17.775M            |
| 5240MHz                        | Pass   | Inf           | 21.51M              | 17.751M            | 21.6M               | 17.775M            |
| 5745MHz                        | Pass   | 500k          | 17.55M              | 17.775M            | 17.58M              | 17.775M            |
| 5785MHz                        | Pass   | 500k          | 17.55M              | 17.847M            | 17.55M              | 17.775M            |
| 5825MHz                        | Pass   | 500k          | 17.55M              | 17.799M            | 17.55M              | 17.799M            |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 5190MHz                        | Pass   | Inf           | 40.26M              | 36.222M            | 39.9M               | 36.27M             |
| 5230MHz                        | Pass   | Inf           | 40.26M              | 36.222M            | 39.96M              | 36.27M             |
| 5755MHz                        | Pass   | 500k          | 36M                 | 36.27M             | 36.3M               | 36.222M            |
| 5795MHz                        | Pass   | 500k          | 35.7M               | 36.27M             | 36.3M               | 36.27M             |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 5210MHz                        | Pass   | Inf           | 81.96M              | 75.706M            | 81.48M              | 75.61M             |
| 5775MHz                        | Pass   | 500k          | 75.48M              | 75.802M            | 75.36M              | 75.802M            |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 5180MHz                        | Pass   | Inf           | 21.72M              | 18.999M            | 21.48M              | 18.975M            |
| 5200MHz                        | Pass   | Inf           | 21.72M              | 18.999M            | 21.45M              | 18.975M            |
| 5240MHz                        | Pass   | Inf           | 21.69M              | 18.975M            | 21.57M              | 18.999M            |
| 5745MHz                        | Pass   | 500k          | 18.87M              | 18.975M            | 18.87M              | 18.999M            |
| 5785MHz                        | Pass   | 500k          | 18.78M              | 18.975M            | 18.87M              | 18.975M            |
| 5825MHz                        | Pass   | 500k          | 18.78M              | 19.022M            | 18.78M              | 18.999M            |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 5190MHz                        | Pass   | Inf           | 40.02M              | 37.517M            | 39.9M               | 37.517M            |
| 5230MHz                        | Pass   | Inf           | 40.02M              | 37.565M            | 39.84M              | 37.565M            |



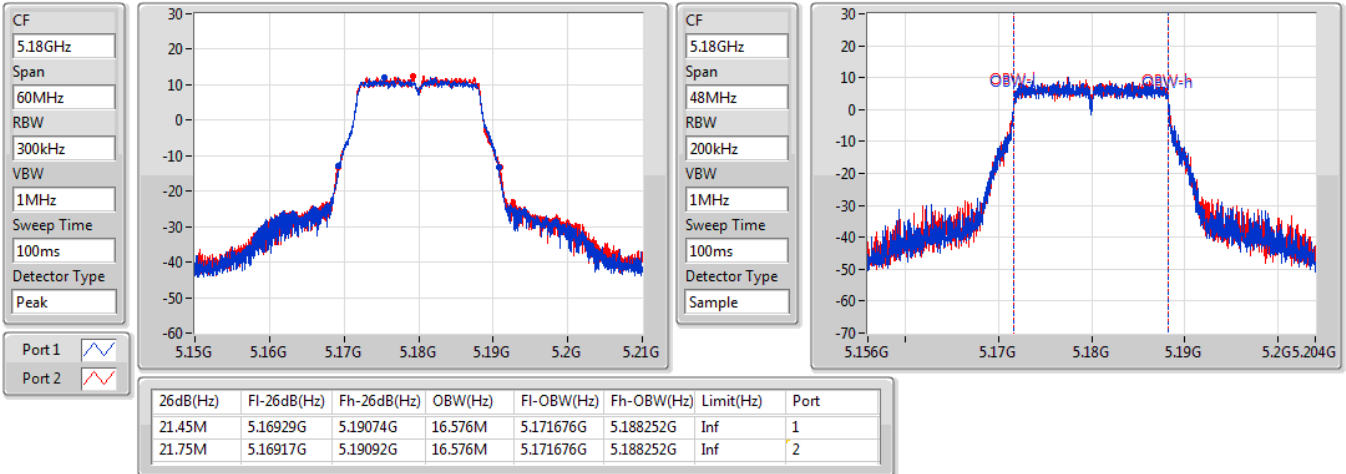
| Mode                           | Result | Limit<br>(Hz) | Port 1-N dB<br>(Hz) | Port 1-OBW<br>(Hz) | Port 2-N dB<br>(Hz) | Port 2-OBW<br>(Hz) |
|--------------------------------|--------|---------------|---------------------|--------------------|---------------------|--------------------|
| 5755MHz                        | Pass   | 500k          | 36.54M              | 37.469M            | 36.36M              | 37.565M            |
| 5795MHz                        | Pass   | 500k          | 37.2M               | 37.469M            | 37.2M               | 37.565M            |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 5210MHz                        | Pass   | Inf           | 82.08M              | 77.049M            | 81.84M              | 77.049M            |
| 5775MHz                        | Pass   | 500k          | 76.08M              | 77.049M            | 75.6M               | 76.954M            |

**Port X-N dB** = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

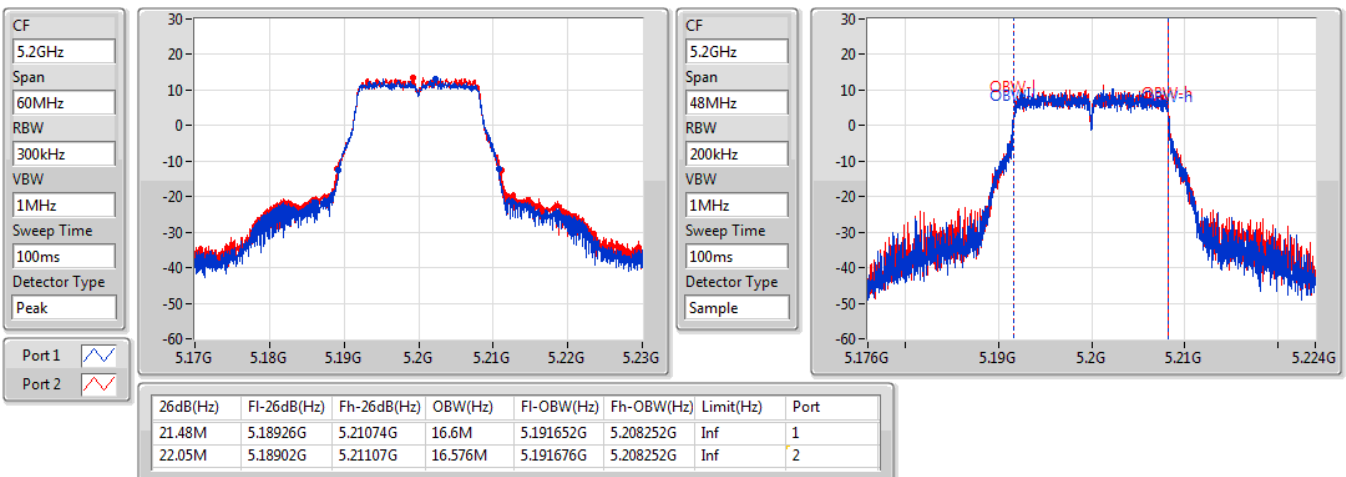
**Port X-OBW** = Port X 99% occupied bandwidth;

**802.11a\_Nss1,(6Mbps)\_2TX**
**EBW**
**5180MHz**

15/07/2020


**802.11a\_Nss1,(6Mbps)\_2TX**
**EBW**
**5200MHz**

15/07/2020

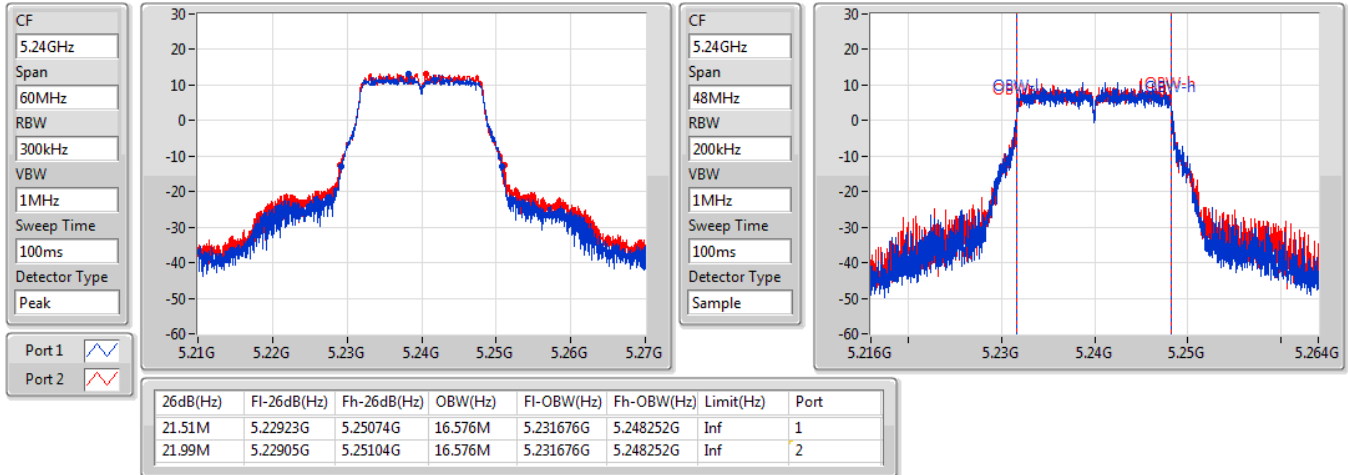


## 802.11a\_Nss1,(6Mbps)\_2TX

EBW

5240MHz

15/07/2020

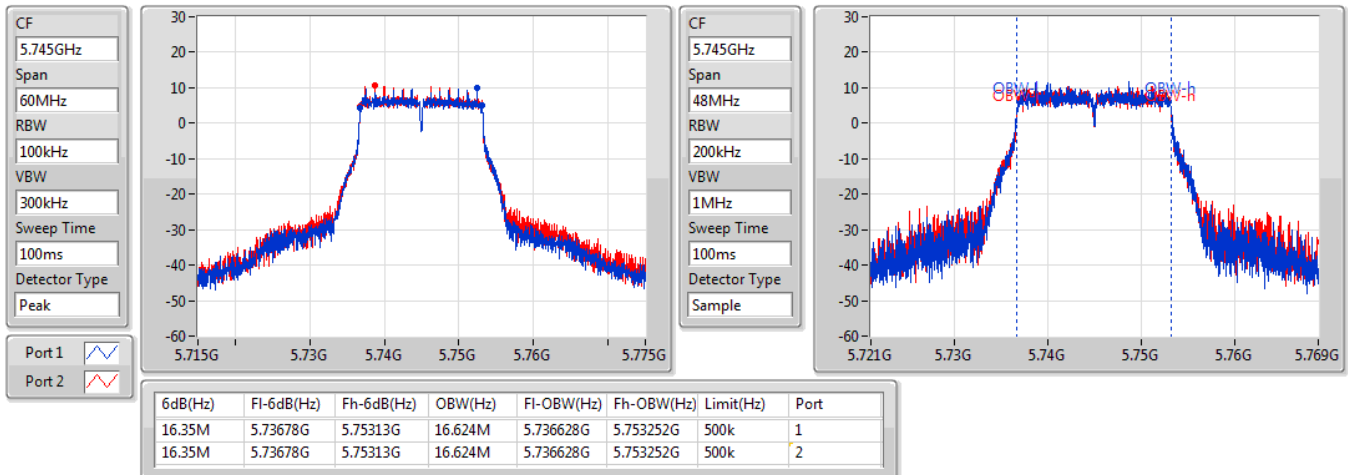


## 802.11a\_Nss1,(6Mbps)\_2TX

EBW

5745MHz

15/07/2020

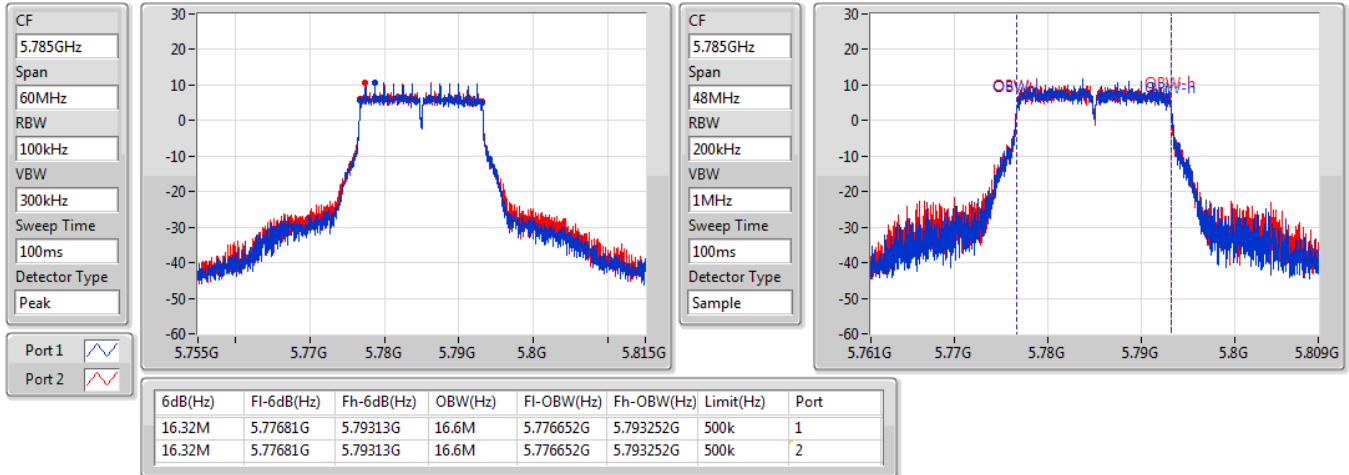


## 802.11a\_Nss1,(6Mbps)\_2TX

EBW

5785MHz

15/07/2020

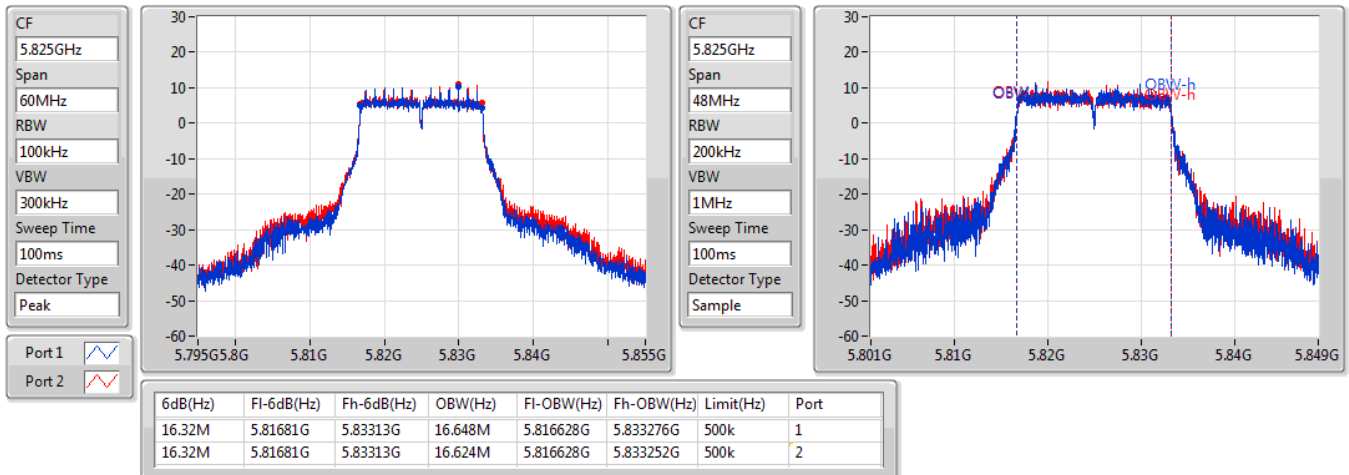


## 802.11a\_Nss1,(6Mbps)\_2TX

EBW

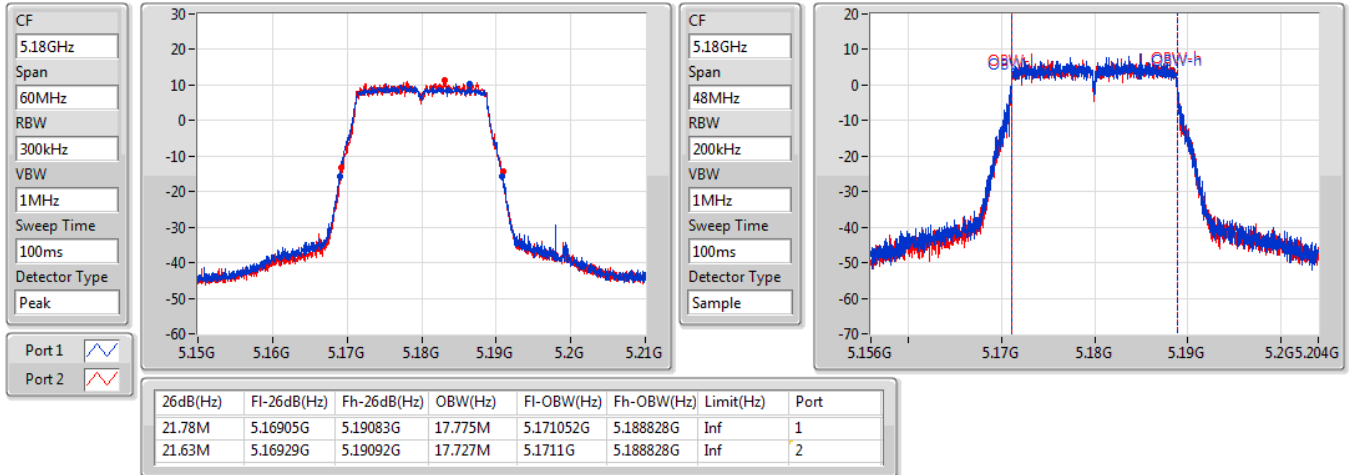
5825MHz

15/07/2020

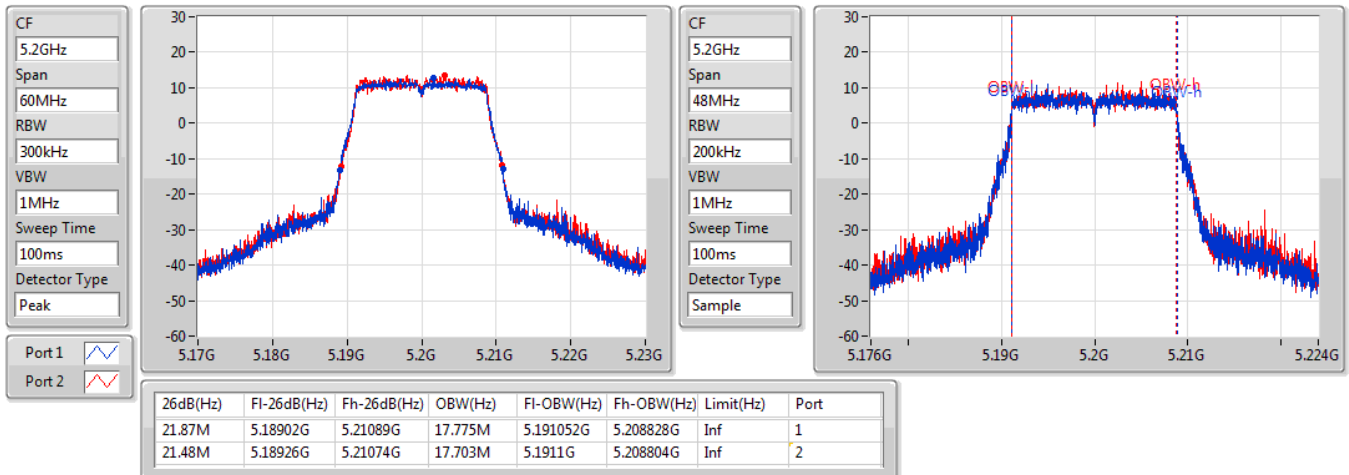


**802.11n HT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5180MHz**

22/07/2020

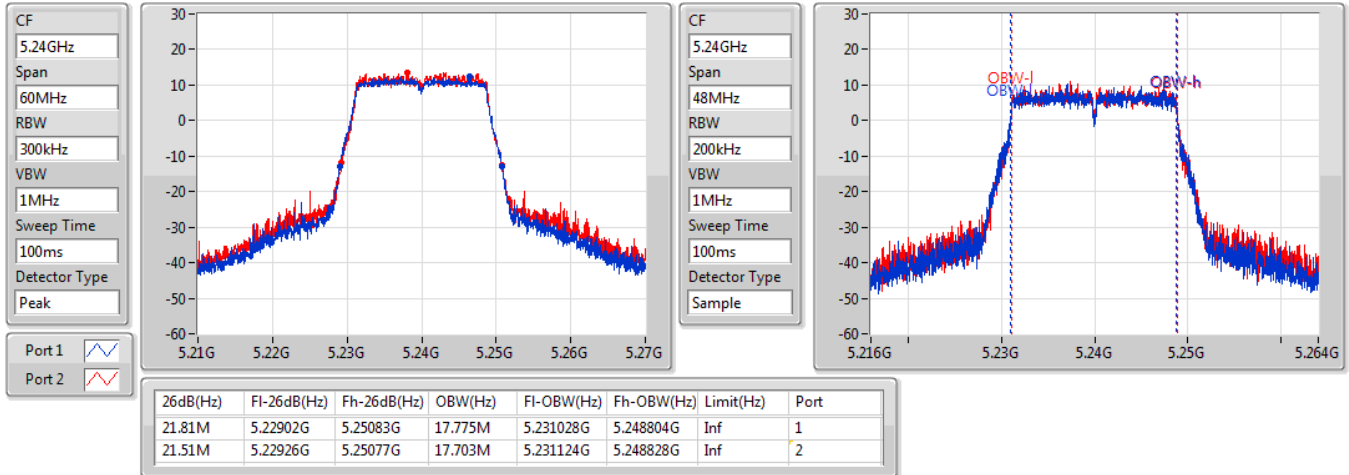

**802.11n HT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5200MHz**

22/07/2020

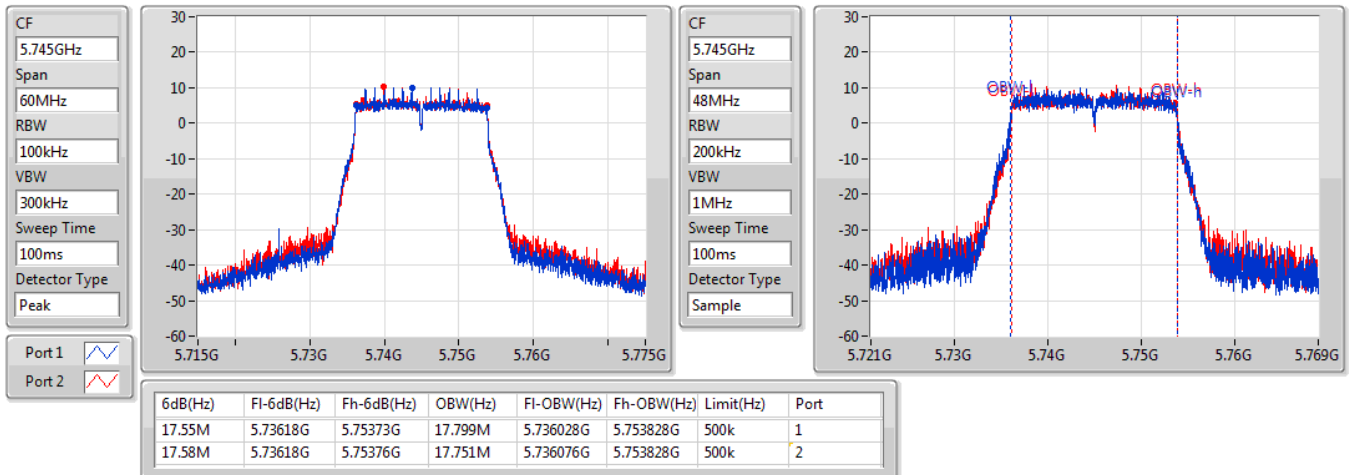


**802.11n HT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5240MHz**

22/07/2020


**802.11n HT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5745MHz**

22/07/2020

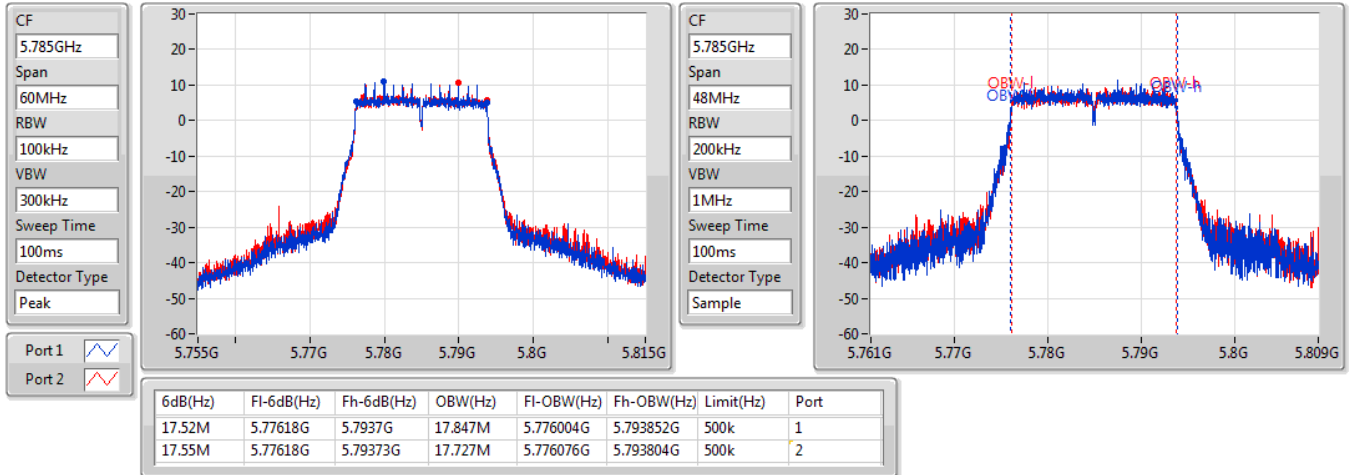


## 802.11n HT20\_Nss1,(MCS0)\_2TX

EBW

5785MHz

22/07/2020

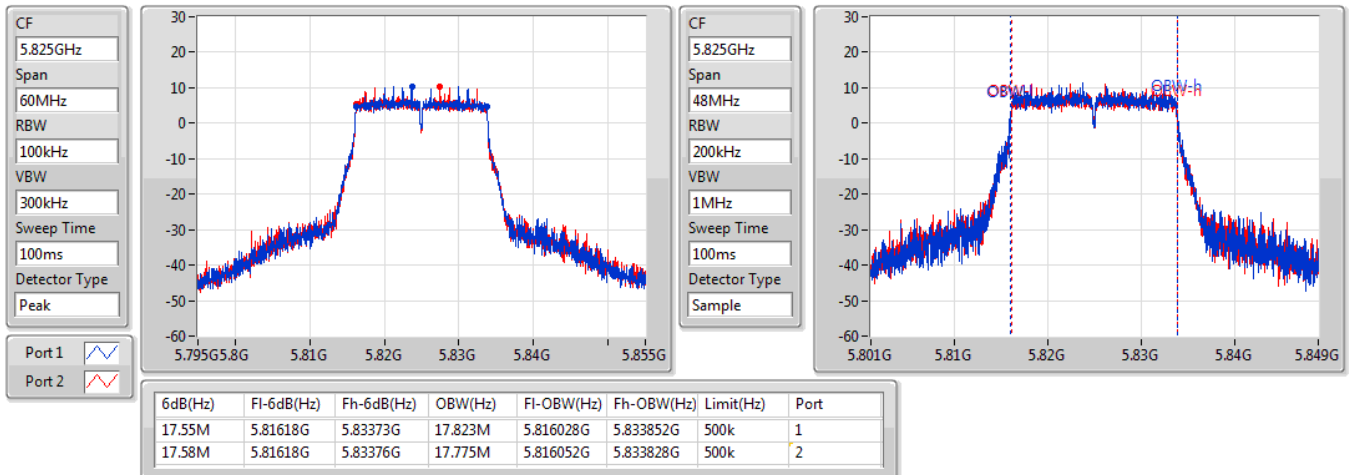


## 802.11n HT20\_Nss1,(MCS0)\_2TX

EBW

5825MHz

22/07/2020

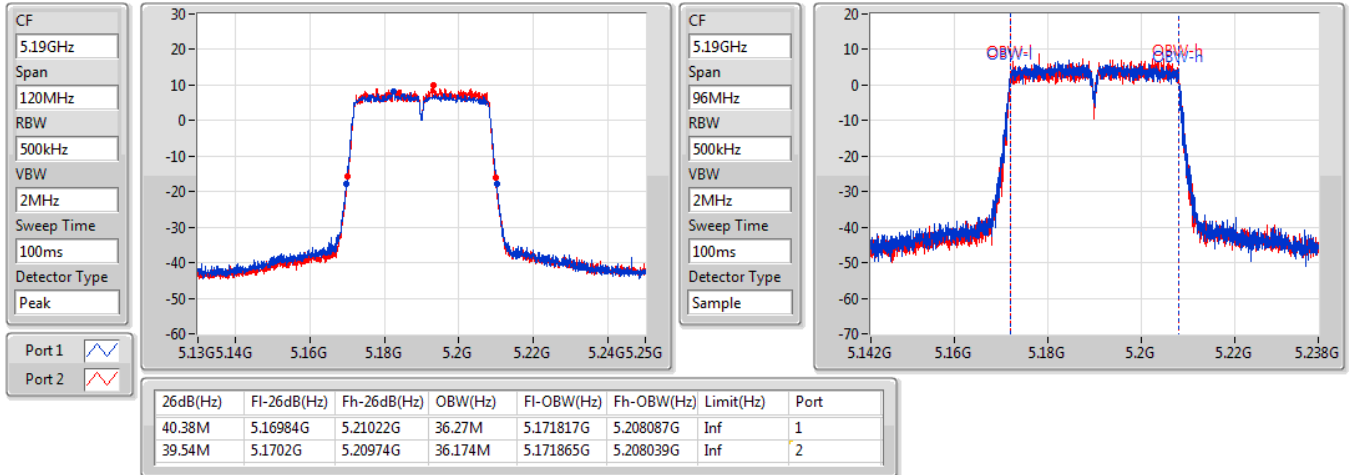


## 802.11n HT40\_Nss1,(MCS0)\_2TX

EBW

5190MHz

22/07/2020

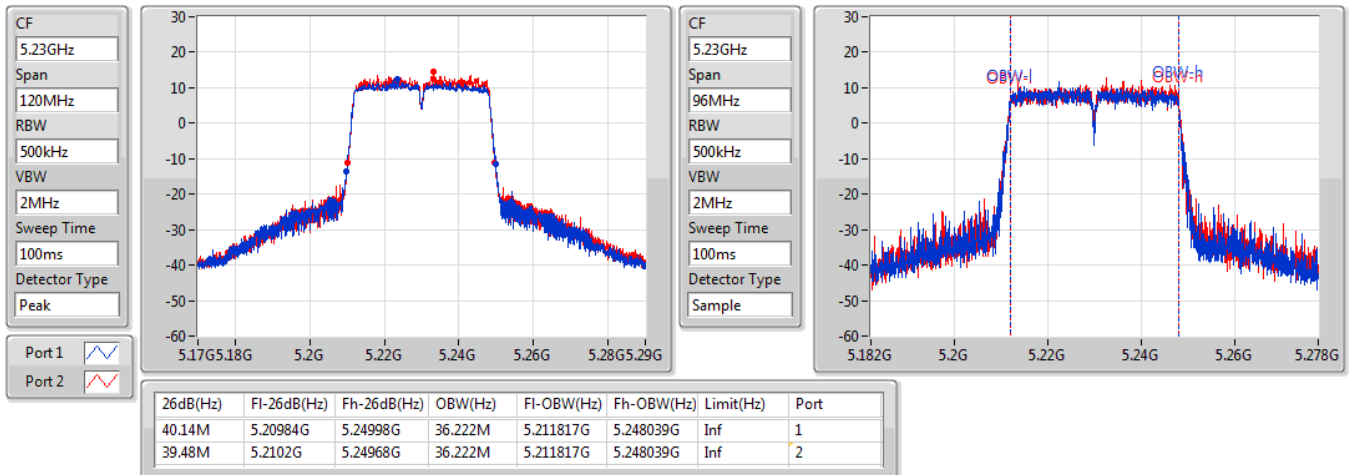


## 802.11n HT40\_Nss1,(MCS0)\_2TX

EBW

5230MHz

22/07/2020

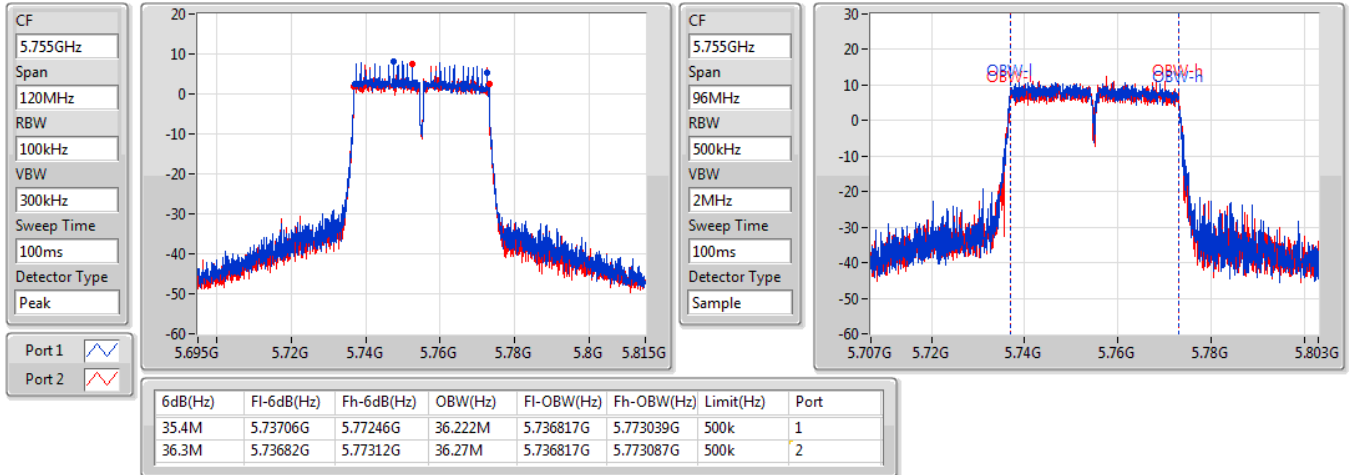


# 802.11n HT40\_Nss1,(MCS0)\_2TX

EBW

5755MHz

22/07/2020

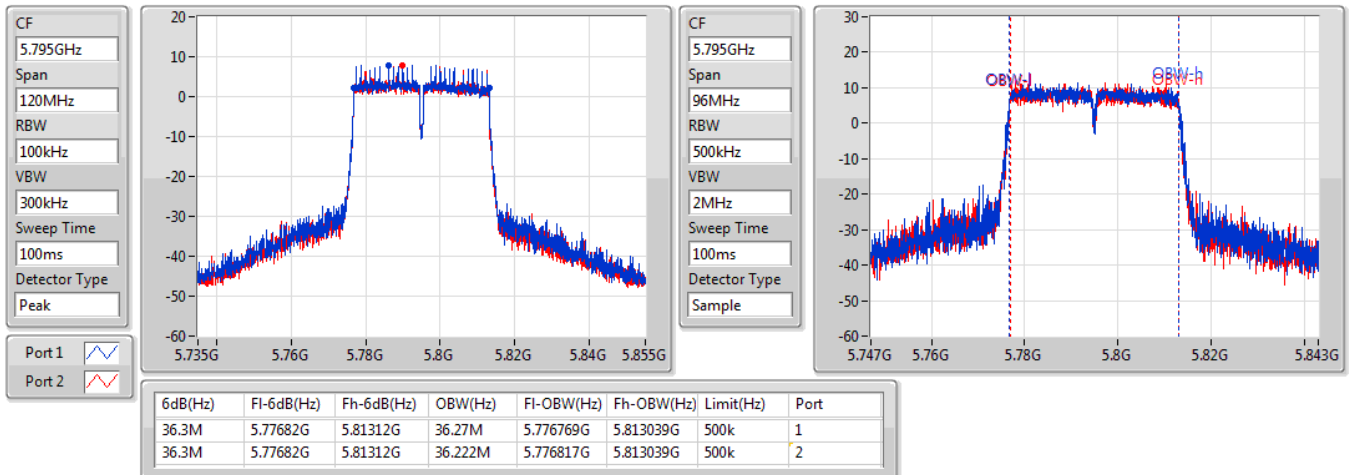


# 802.11n HT40\_Nss1,(MCS0)\_2TX

EBW

5795MHz

22/07/2020

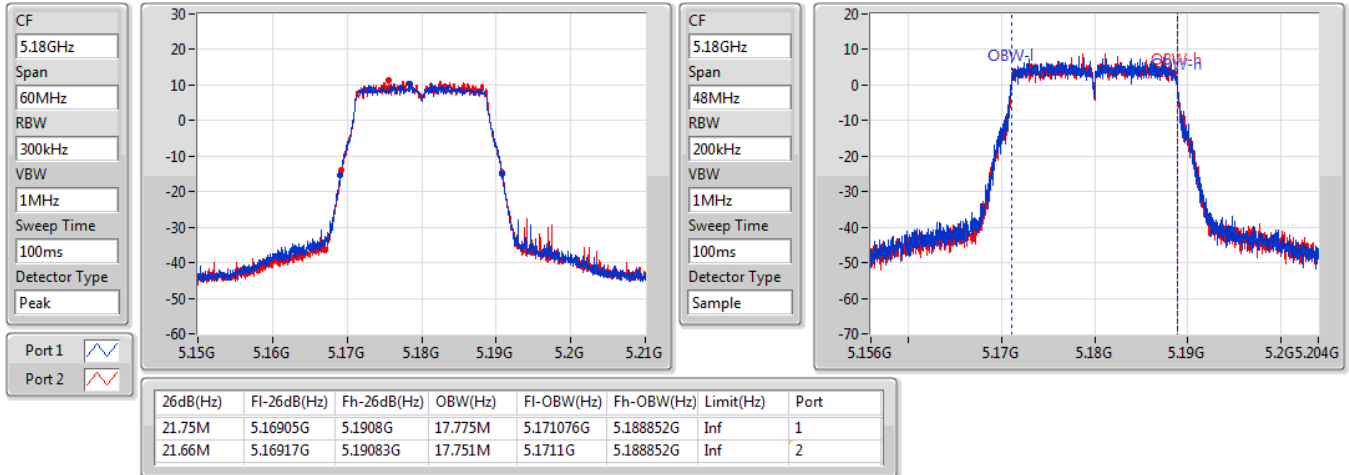


## 802.11ac VHT20\_Nss1,(MCS0)\_2TX

EBW

5180MHz

16/07/2020

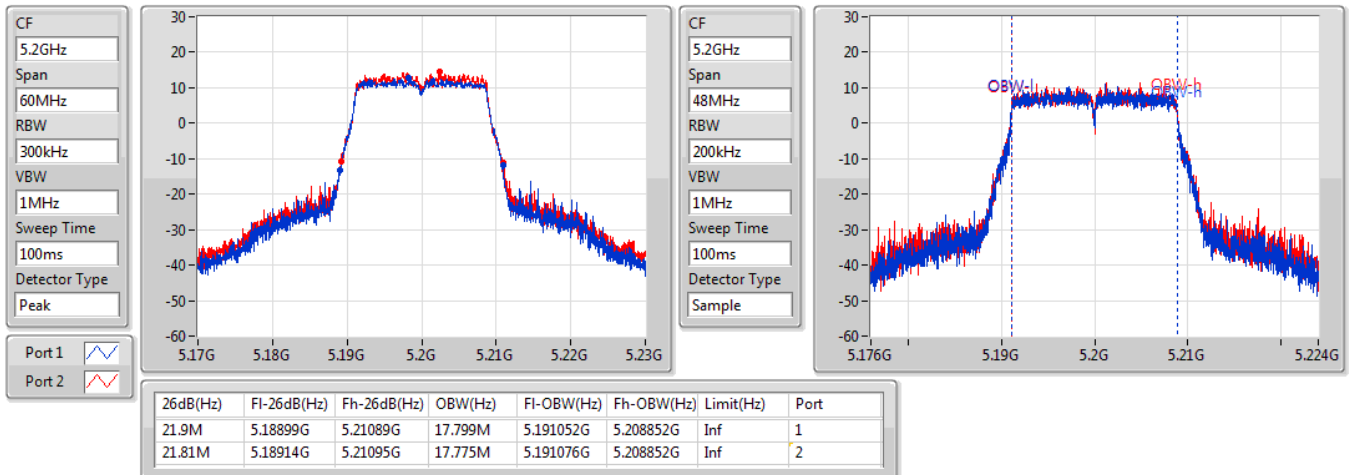


## 802.11ac VHT20\_Nss1,(MCS0)\_2TX

EBW

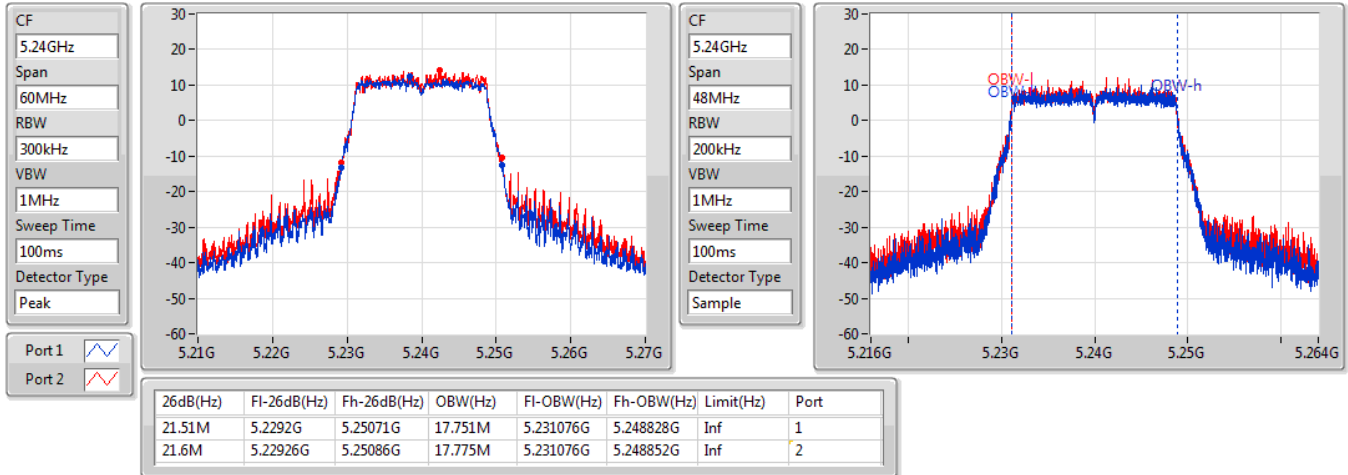
5200MHz

16/07/2020

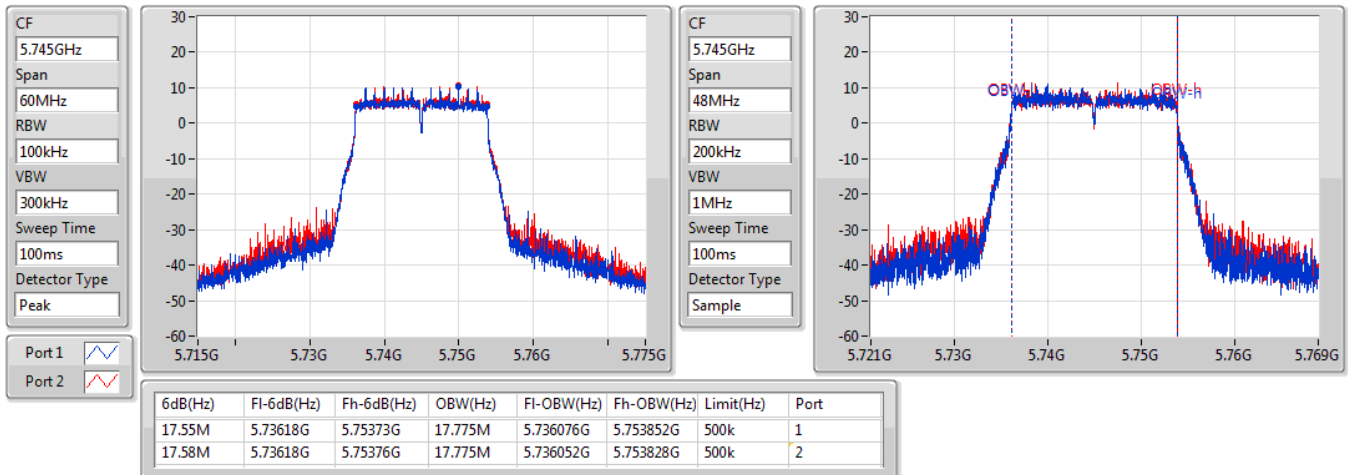


**802.11ac VHT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5240MHz**

16/07/2020

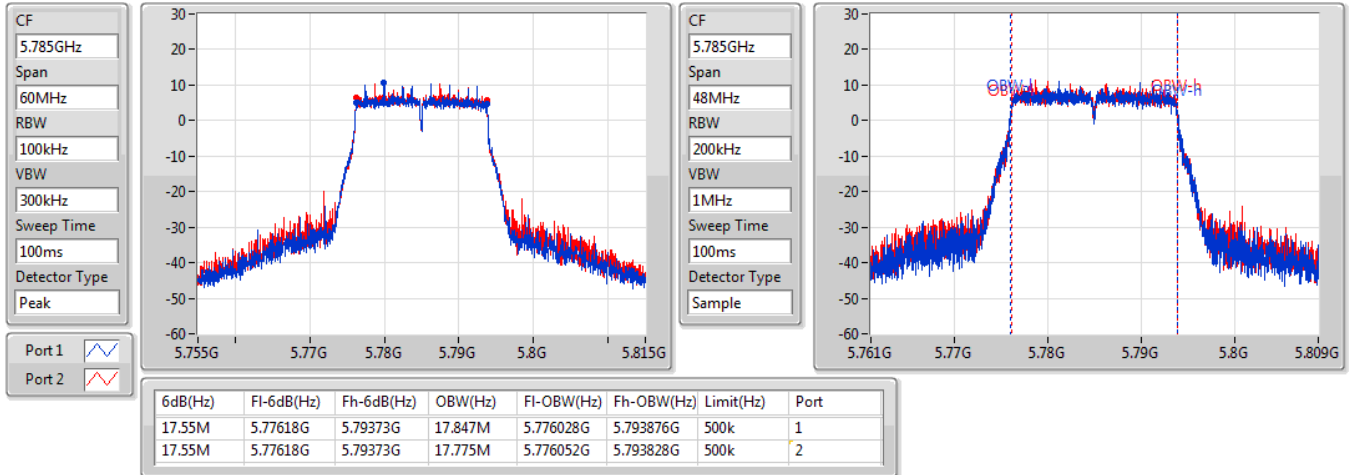

**802.11ac VHT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5745MHz**

16/07/2020

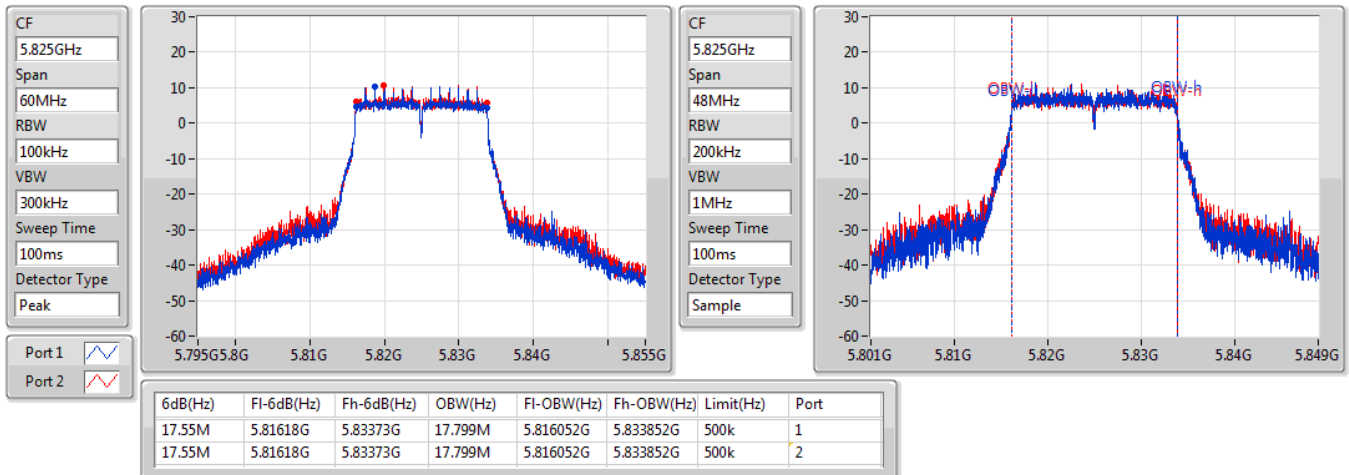


**802.11ac VHT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5785MHz**

16/07/2020


**802.11ac VHT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5825MHz**

16/07/2020

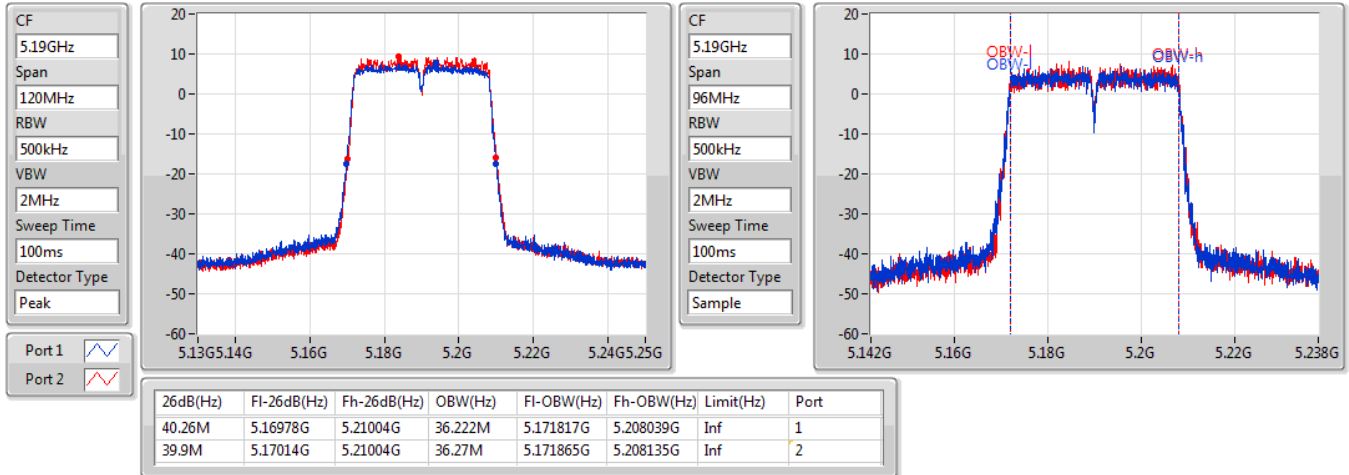


## 802.11ac VHT40\_Nss1,(MCS0)\_2TX

EBW

5190MHz

16/07/2020

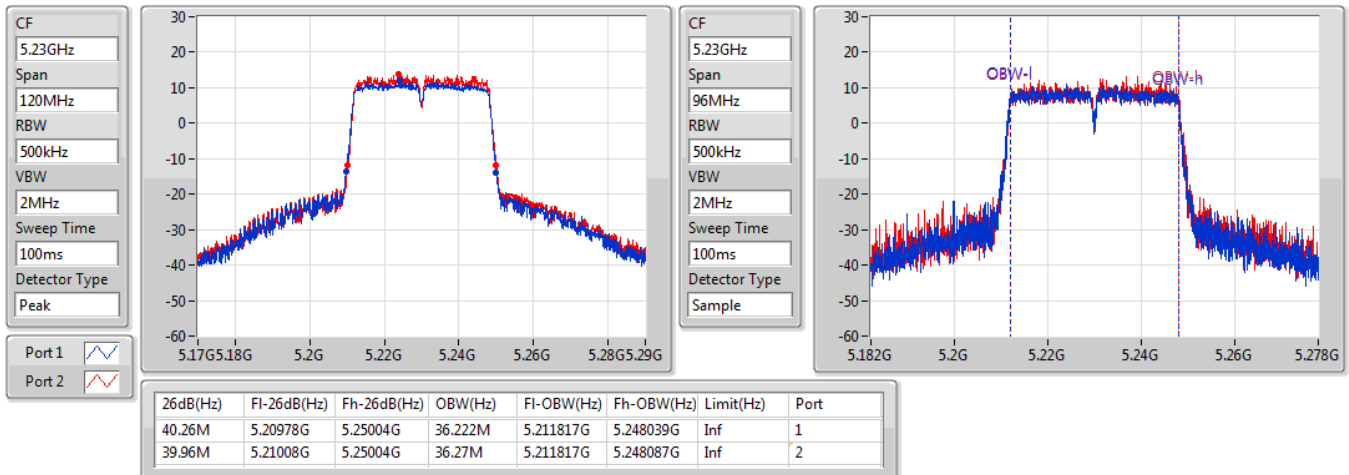


## 802.11ac VHT40\_Nss1,(MCS0)\_2TX

EBW

5230MHz

16/07/2020

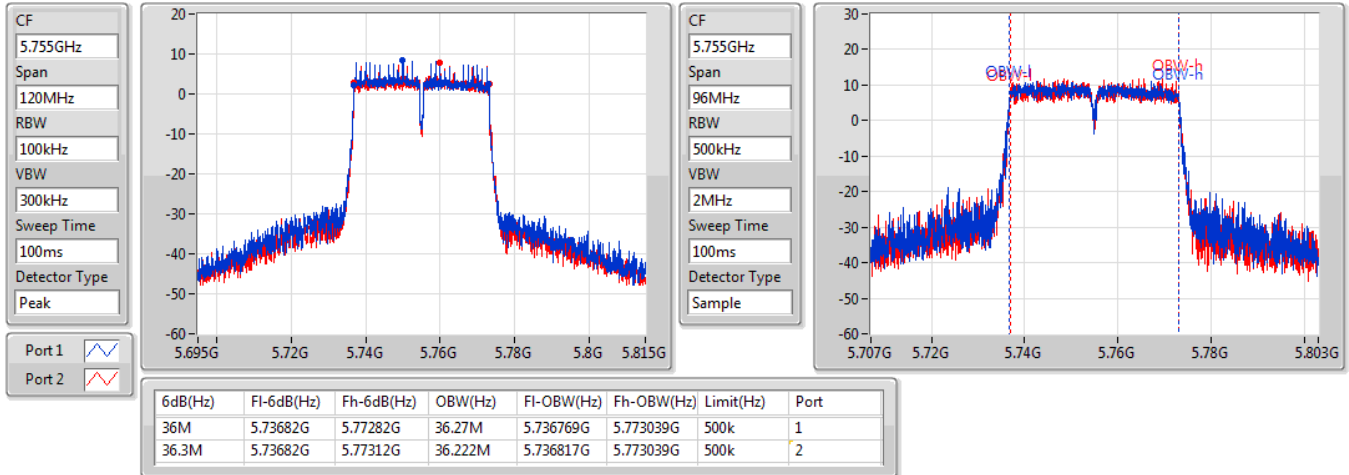


## 802.11ac VHT40\_Nss1,(MCS0)\_2TX

EBW

5755MHz

16/07/2020

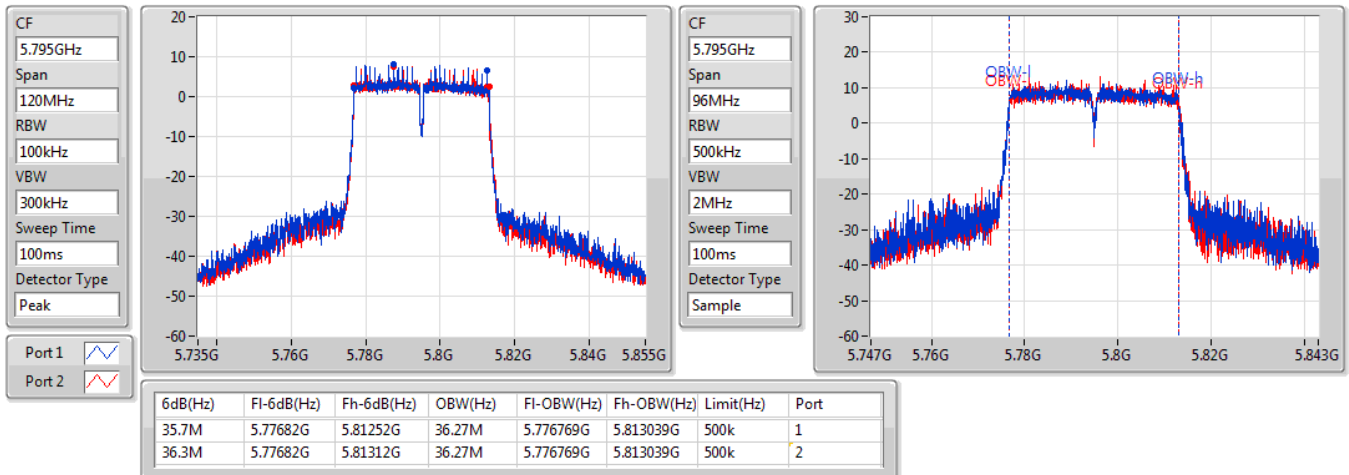


## 802.11ac VHT40\_Nss1,(MCS0)\_2TX

EBW

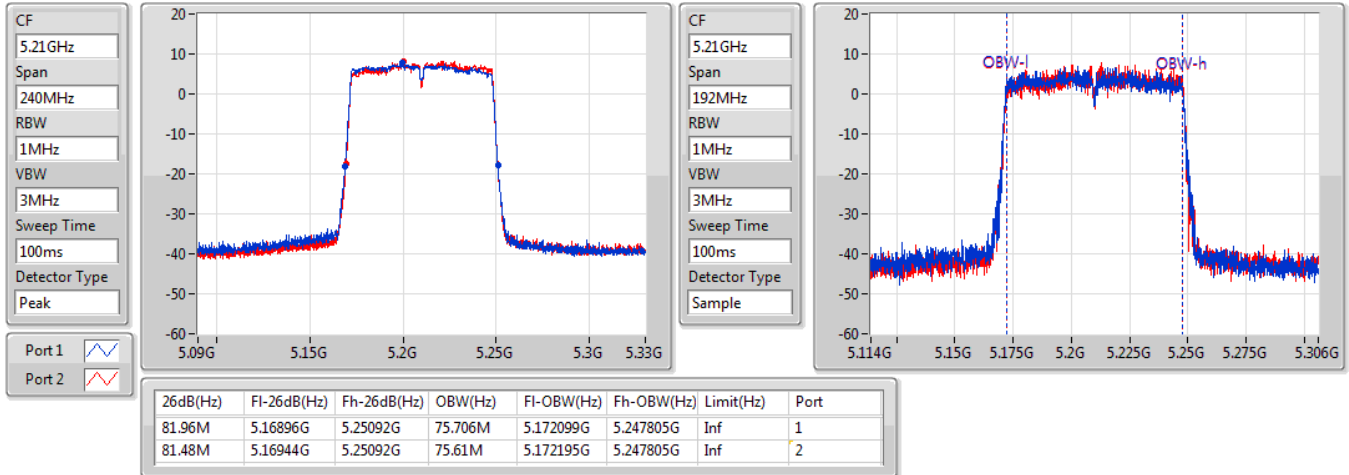
5795MHz

16/07/2020

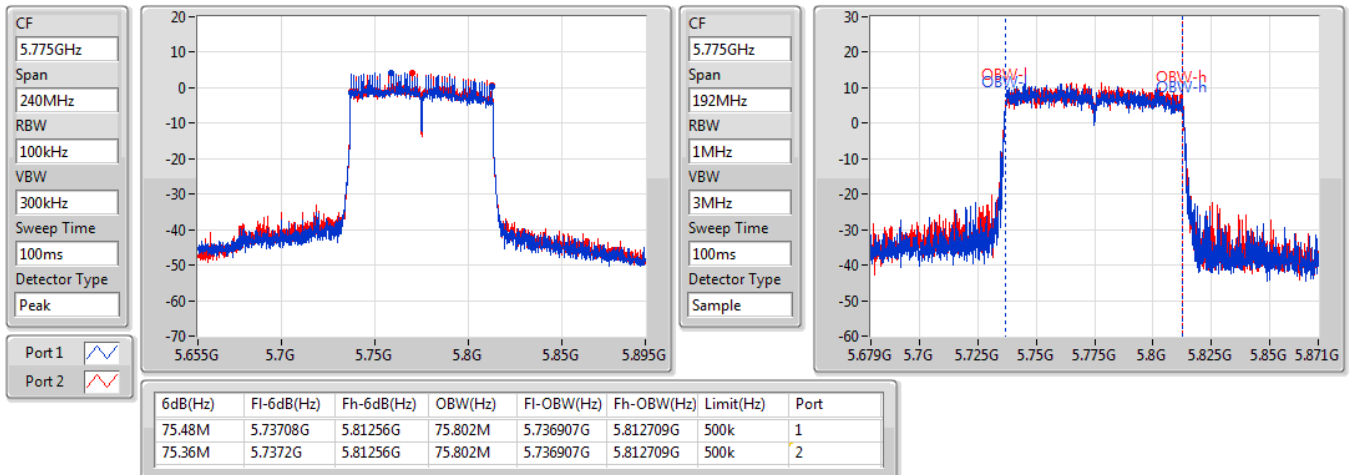


**802.11ac VHT80\_Nss1,(MCS0)\_2TX**
**EBW**
**5210MHz**

16/07/2020

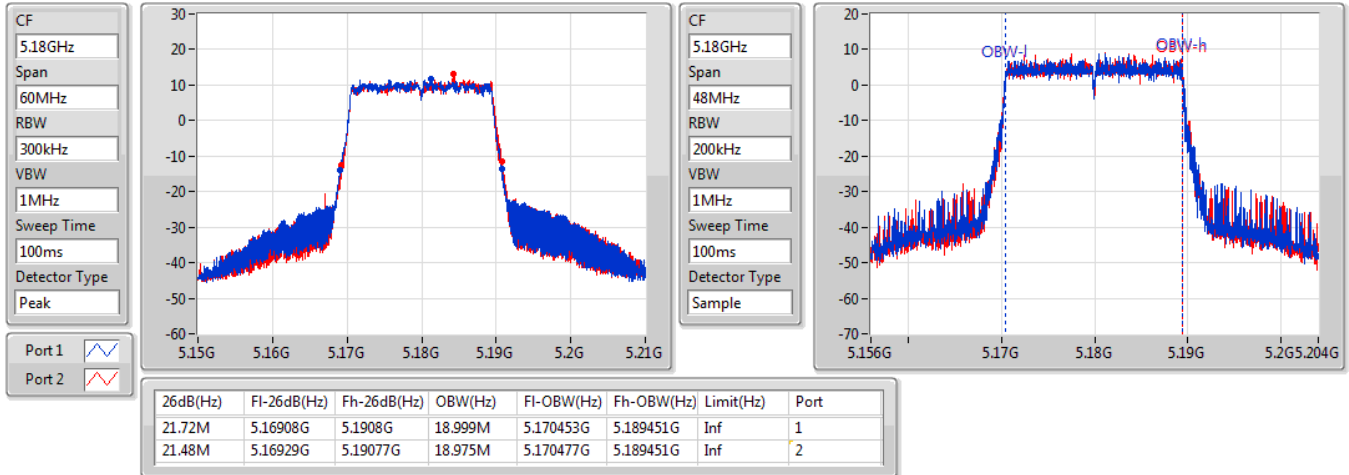

**802.11ac VHT80\_Nss1,(MCS0)\_2TX**
**EBW**
**5775MHz**

16/07/2020

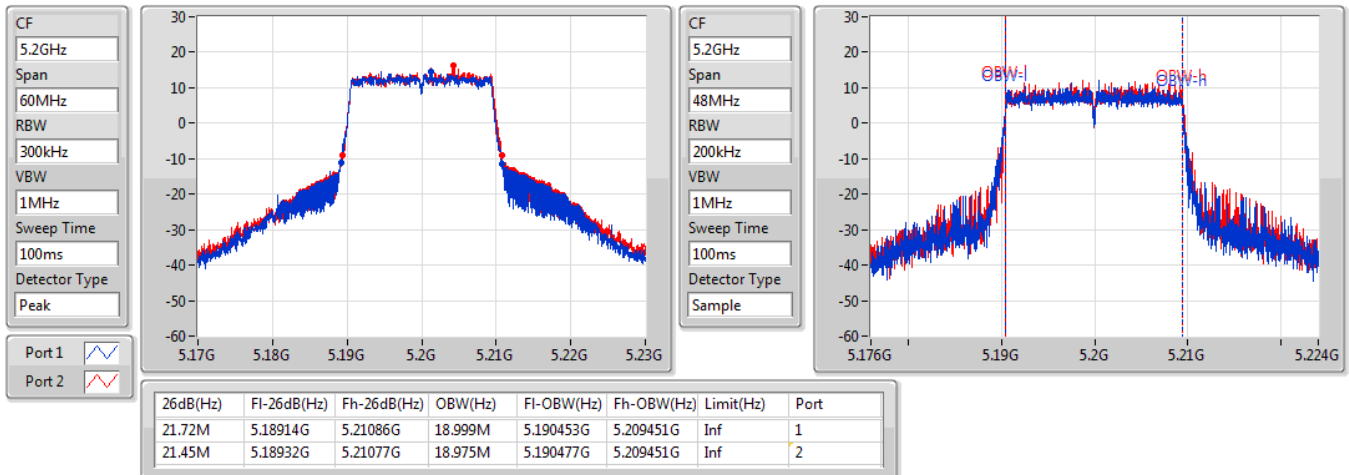


**802.11ax HEW20\_Nss1,(MCS0)\_2TX**
**EBW**
**5180MHz**

15/07/2020

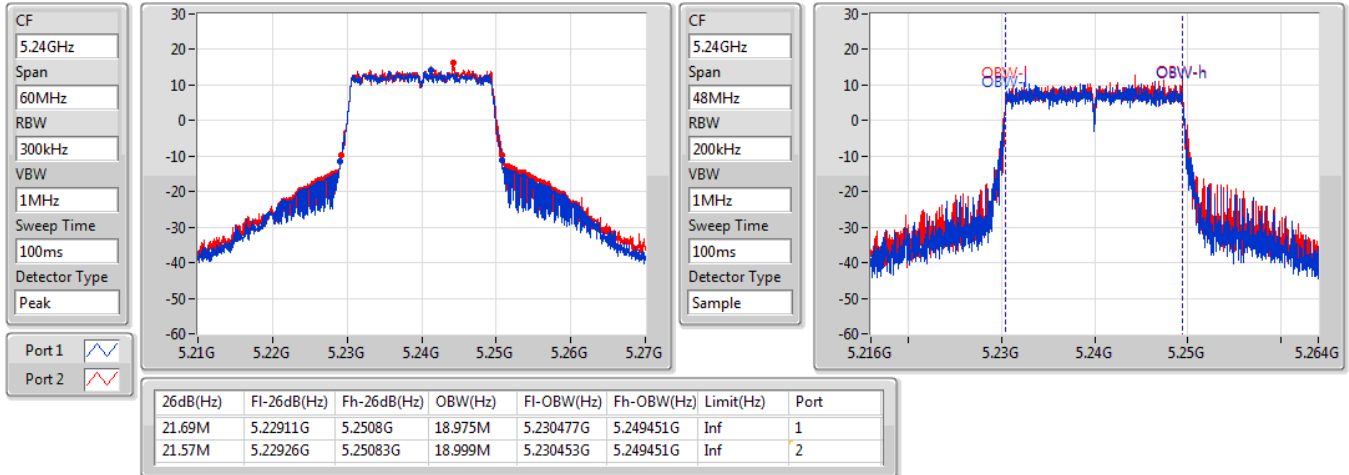

**802.11ax HEW20\_Nss1,(MCS0)\_2TX**
**EBW**
**5200MHz**

15/07/2020

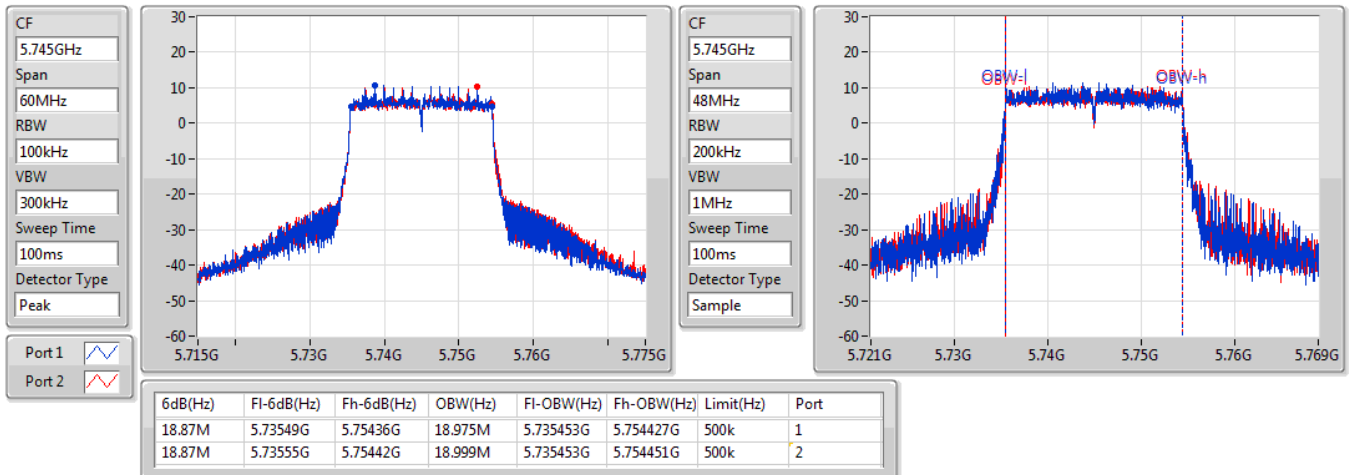


**802.11ax HEW20\_Nss1,(MCS0)\_2TX**
**EBW**
**5240MHz**

15/07/2020

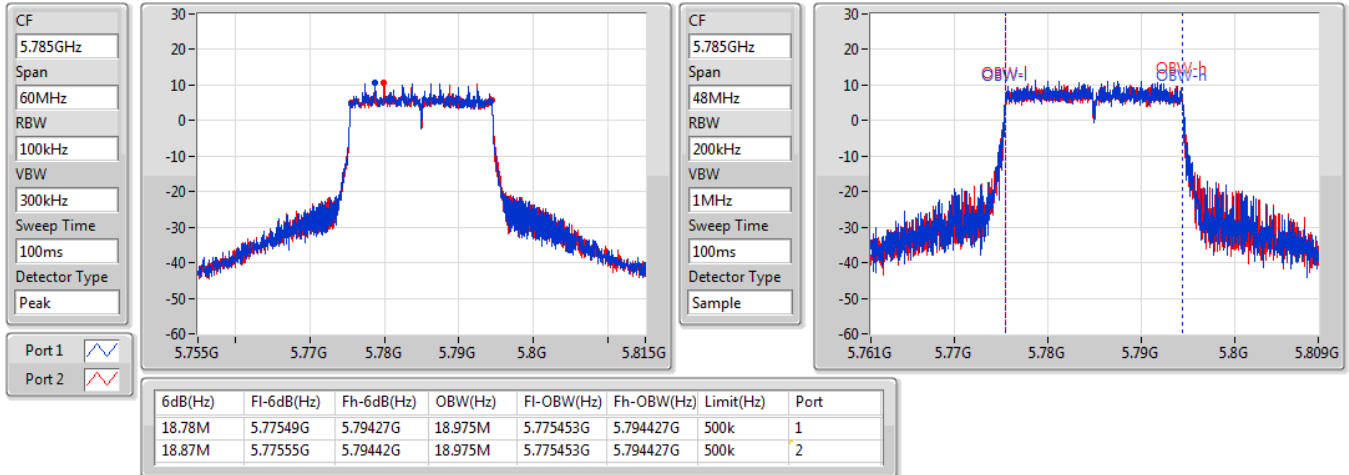

**802.11ax HEW20\_Nss1,(MCS0)\_2TX**
**EBW**
**5745MHz**

16/07/2020

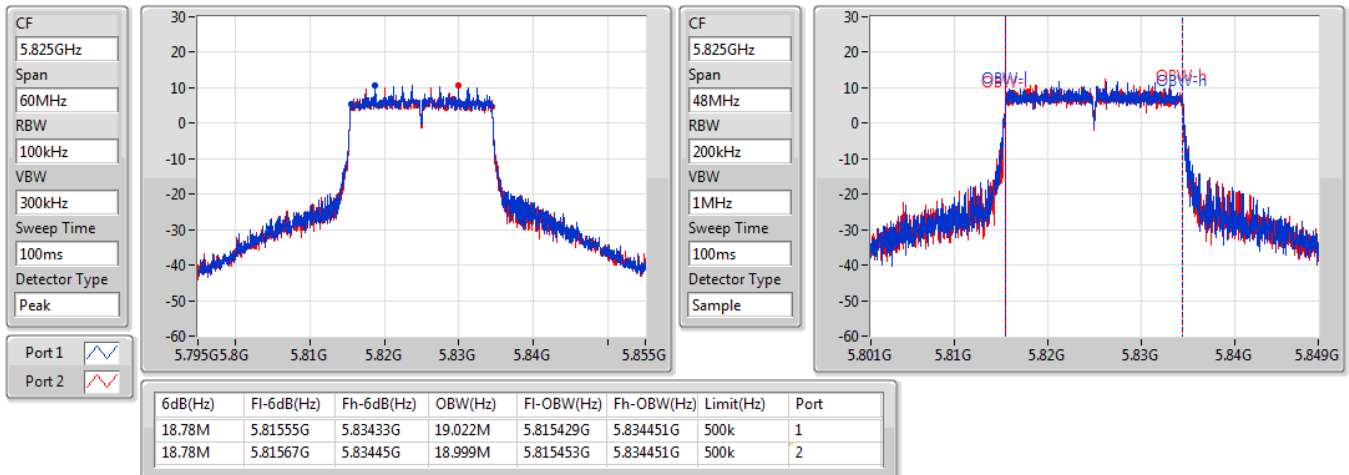


**802.11ax HEW20\_Nss1,(MCS0)\_2TX**
**EBW**
**5785MHz**

16/07/2020


**802.11ax HEW20\_Nss1,(MCS0)\_2TX**
**EBW**
**5825MHz**

16/07/2020

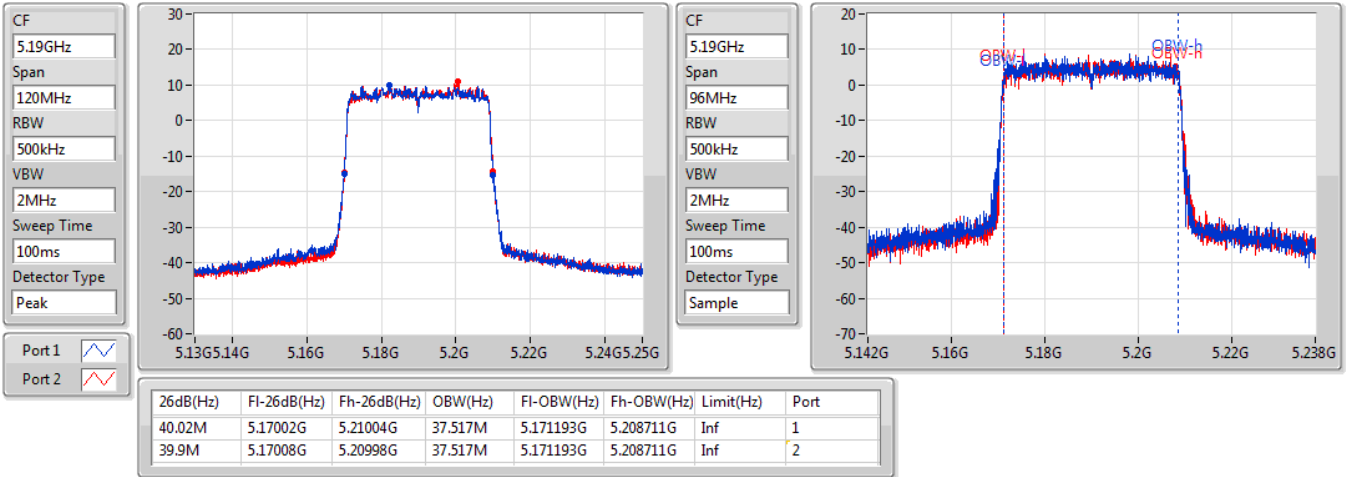


# 802.11ax HEW40\_Nss1,(MCS0)\_2TX

EBW

5190MHz

16/07/2020

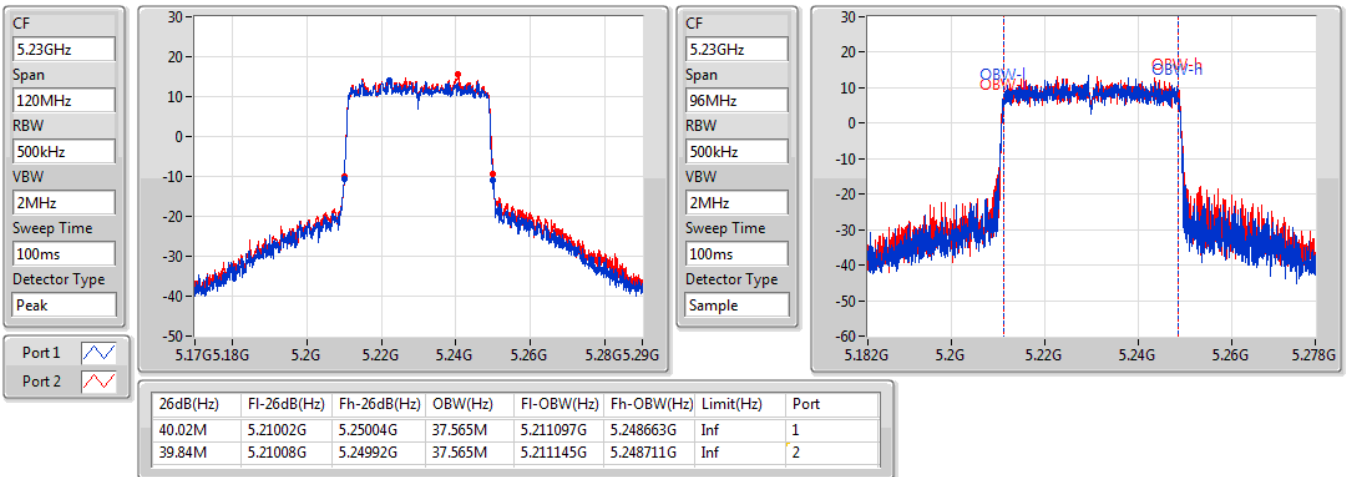


# 802.11ax HEW40\_Nss1,(MCS0)\_2TX

EBW

5230MHz

16/07/2020

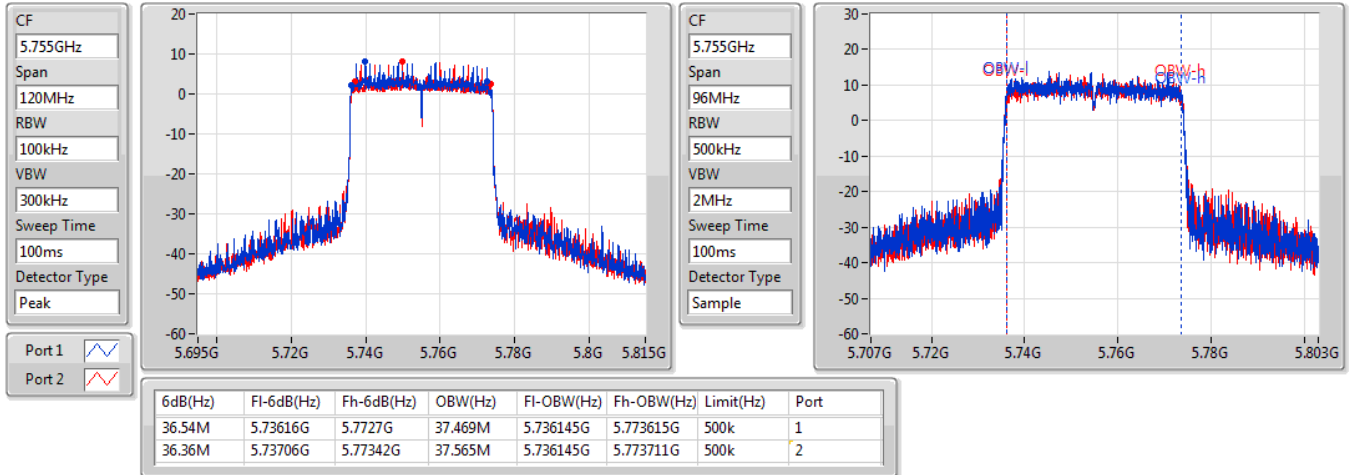


## 802.11ax HEW40\_Nss1,(MCS0)\_2TX

EBW

5755MHz

16/07/2020

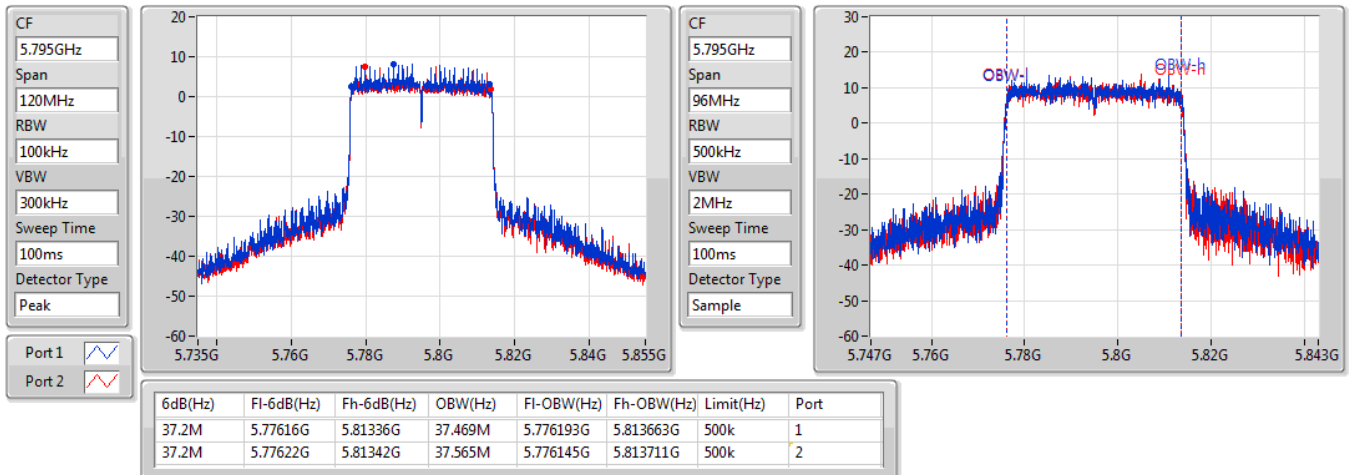


## 802.11ax HEW40\_Nss1,(MCS0)\_2TX

EBW

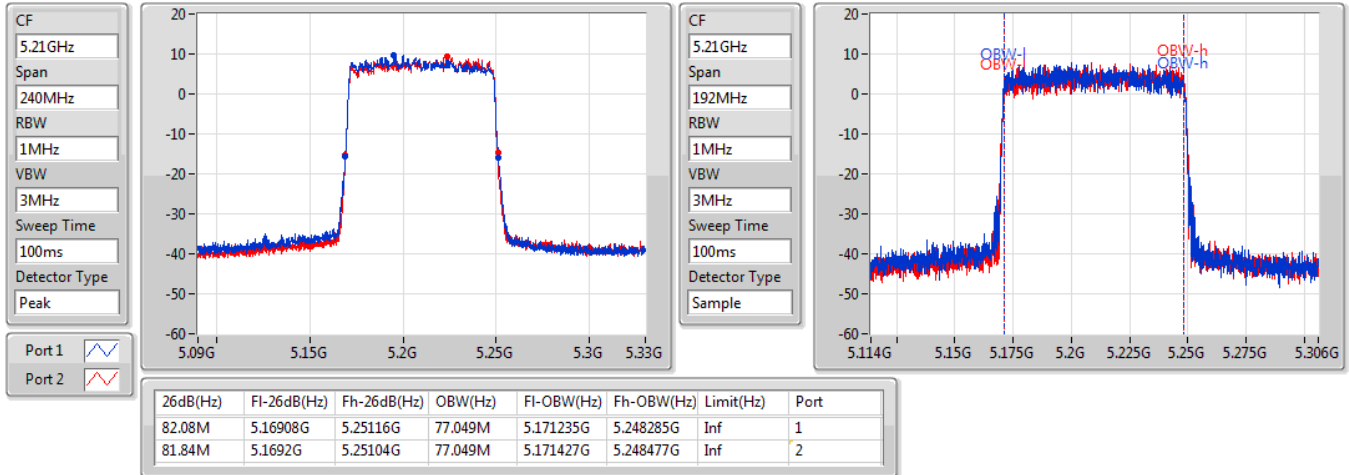
5795MHz

16/07/2020

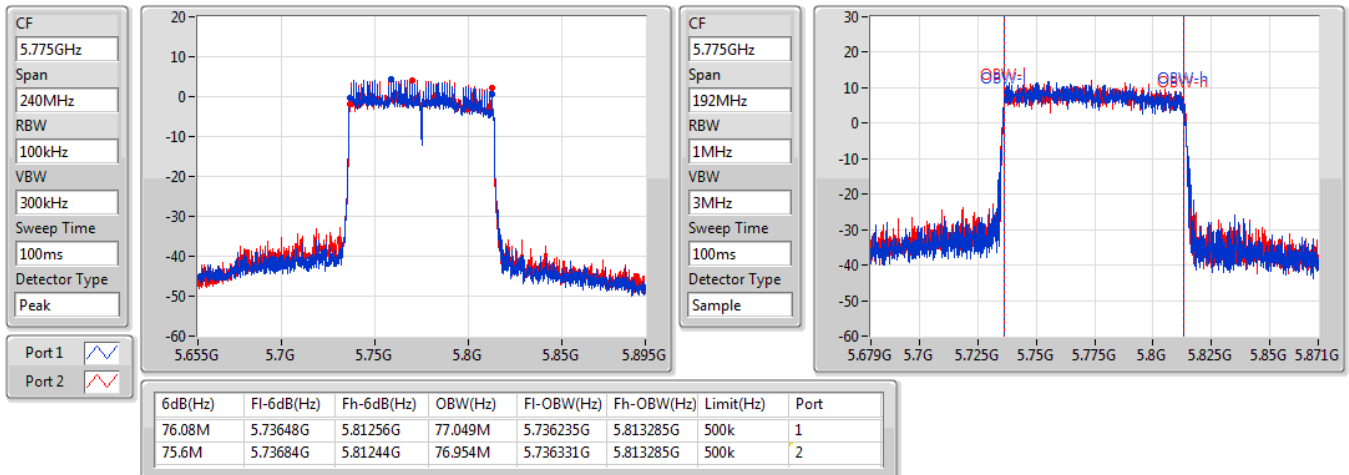


**802.11ax HEW80\_Nss1,(MCS0)\_2TX**
**EBW**
**5210MHz**

16/07/2020


**802.11ax HEW80\_Nss1,(MCS0)\_2TX**
**EBW**
**5775MHz**

16/07/2020



**Summary**

| Mode                           | Max-N dB<br>(Hz) | Max-OBW<br>(Hz) | ITU-Code | Min-N dB<br>(Hz) | Min-OBW<br>(Hz) |
|--------------------------------|------------------|-----------------|----------|------------------|-----------------|
| 5.15-5.25GHz                   | -                | -               | -        | -                | -               |
| 802.11a_Nss1,(6Mbps)_2TX       | 21.48M           | 16.6M           | 16M6D1D  | 21.3M            | 16.504M         |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 21.84M           | 17.799M         | 17M8D1D  | 21.48M           | 17.727M         |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 40.26M           | 36.27M          | 36M3D1D  | 39.48M           | 36.174M         |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 21.81M           | 17.799M         | 17M8D1D  | 21.57M           | 17.727M         |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 40.26M           | 36.222M         | 36M2D1D  | 39.96M           | 36.222M         |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 82.08M           | 75.802M         | 75M8D1D  | 81.48M           | 75.706M         |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 21.69M           | 18.999M         | 19M0D1D  | 21.54M           | 18.927M         |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 40.08M           | 37.613M         | 37M6D1D  | 39.84M           | 37.517M         |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 82.2M            | 77.241M         | 77M2D1D  | 81.48M           | 77.049M         |
| 5.725-5.85GHz                  | -                | -               | -        | -                | -               |
| 802.11a_Nss1,(6Mbps)_2TX       | 16.35M           | 16.624M         | 16M6D1D  | 16.29M           | 16.576M         |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 17.58M           | 17.847M         | 17M8D1D  | 17.52M           | 17.751M         |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 36.3M            | 36.27M          | 36M3D1D  | 35.7M            | 36.222M         |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 17.58M           | 17.823M         | 17M8D1D  | 17.55M           | 17.775M         |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 36.36M           | 36.27M          | 36M3D1D  | 36M              | 36.222M         |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 75.72M           | 75.706M         | 75M7D1D  | 75.36M           | 75.61M          |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 18.93M           | 19.022M         | 19M0D1D  | 18.66M           | 18.975M         |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 37.26M           | 37.565M         | 37M6D1D  | 36.84M           | 37.517M         |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 75.96M           | 76.954M         | 77M0D1D  | 75M              | 76.858M         |

**Max-N dB** = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

**Max-OBW** = Maximum 99% occupied bandwidth;

**Min-N dB** = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

**Min-OBW** = Minimum 99% occupied bandwidth;

**Result**

| Mode                           | Result | Limit<br>(Hz) | Port 1-N dB<br>(Hz) | Port 1-OBW<br>(Hz) | Port 2-N dB<br>(Hz) | Port 2-OBW<br>(Hz) |
|--------------------------------|--------|---------------|---------------------|--------------------|---------------------|--------------------|
| 802.11a_Nss1,(6Mbps)_2TX       | -      | -             | -                   | -                  | -                   | -                  |
| 5180MHz                        | Pass   | Inf           | 21.48M              | 16.576M            | 21.36M              | 16.576M            |
| 5200MHz                        | Pass   | Inf           | 21.48M              | 16.6M              | 21.3M               | 16.504M            |
| 5240MHz                        | Pass   | Inf           | 21.39M              | 16.576M            | 21.3M               | 16.552M            |
| 5745MHz                        | Pass   | 500k          | 16.29M              | 16.576M            | 16.32M              | 16.576M            |
| 5785MHz                        | Pass   | 500k          | 16.29M              | 16.624M            | 16.35M              | 16.6M              |
| 5825MHz                        | Pass   | 500k          | 16.35M              | 16.624M            | 16.29M              | 16.576M            |
| 802.11n HT20_Nss1,(MCS0)_2TX   | -      | -             | -                   | -                  | -                   | -                  |
| 5180MHz                        | Pass   | Inf           | 21.75M              | 17.799M            | 21.6M               | 17.751M            |
| 5200MHz                        | Pass   | Inf           | 21.84M              | 17.775M            | 21.48M              | 17.727M            |
| 5240MHz                        | Pass   | Inf           | 21.78M              | 17.799M            | 21.48M              | 17.727M            |
| 5745MHz                        | Pass   | 500k          | 17.52M              | 17.847M            | 17.58M              | 17.751M            |
| 5785MHz                        | Pass   | 500k          | 17.55M              | 17.775M            | 17.55M              | 17.751M            |
| 5825MHz                        | Pass   | 500k          | 17.52M              | 17.799M            | 17.55M              | 17.775M            |
| 802.11n HT40_Nss1,(MCS0)_2TX   | -      | -             | -                   | -                  | -                   | -                  |
| 5190MHz                        | Pass   | Inf           | 40.26M              | 36.27M             | 39.48M              | 36.174M            |
| 5230MHz                        | Pass   | Inf           | 40.2M               | 36.222M            | 39.48M              | 36.174M            |
| 5755MHz                        | Pass   | 500k          | 35.7M               | 36.27M             | 36M                 | 36.222M            |
| 5795MHz                        | Pass   | 500k          | 35.7M               | 36.222M            | 36.3M               | 36.27M             |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 5180MHz                        | Pass   | Inf           | 21.81M              | 17.775M            | 21.6M               | 17.727M            |
| 5200MHz                        | Pass   | Inf           | 21.75M              | 17.775M            | 21.63M              | 17.799M            |
| 5240MHz                        | Pass   | Inf           | 21.66M              | 17.775M            | 21.57M              | 17.775M            |
| 5745MHz                        | Pass   | 500k          | 17.55M              | 17.799M            | 17.58M              | 17.775M            |
| 5785MHz                        | Pass   | 500k          | 17.55M              | 17.799M            | 17.58M              | 17.799M            |
| 5825MHz                        | Pass   | 500k          | 17.55M              | 17.823M            | 17.55M              | 17.775M            |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 5190MHz                        | Pass   | Inf           | 40.26M              | 36.222M            | 39.96M              | 36.222M            |
| 5230MHz                        | Pass   | Inf           | 40.26M              | 36.222M            | 39.96M              | 36.222M            |
| 5755MHz                        | Pass   | 500k          | 36.06M              | 36.27M             | 36M                 | 36.27M             |
| 5795MHz                        | Pass   | 500k          | 36M                 | 36.222M            | 36.36M              | 36.222M            |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 5210MHz                        | Pass   | Inf           | 82.08M              | 75.706M            | 81.48M              | 75.802M            |
| 5775MHz                        | Pass   | 500k          | 75.72M              | 75.706M            | 75.36M              | 75.61M             |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 5180MHz                        | Pass   | Inf           | 21.69M              | 18.951M            | 21.57M              | 18.927M            |
| 5200MHz                        | Pass   | Inf           | 21.66M              | 18.975M            | 21.6M               | 18.975M            |
| 5240MHz                        | Pass   | Inf           | 21.66M              | 18.999M            | 21.54M              | 18.975M            |
| 5745MHz                        | Pass   | 500k          | 18.78M              | 18.975M            | 18.9M               | 18.975M            |
| 5785MHz                        | Pass   | 500k          | 18.9M               | 19.022M            | 18.66M              | 18.999M            |
| 5825MHz                        | Pass   | 500k          | 18.93M              | 18.999M            | 18.9M               | 18.975M            |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 5190MHz                        | Pass   | Inf           | 40.08M              | 37.613M            | 39.84M              | 37.565M            |
| 5230MHz                        | Pass   | Inf           | 40.08M              | 37.517M            | 39.84M              | 37.565M            |

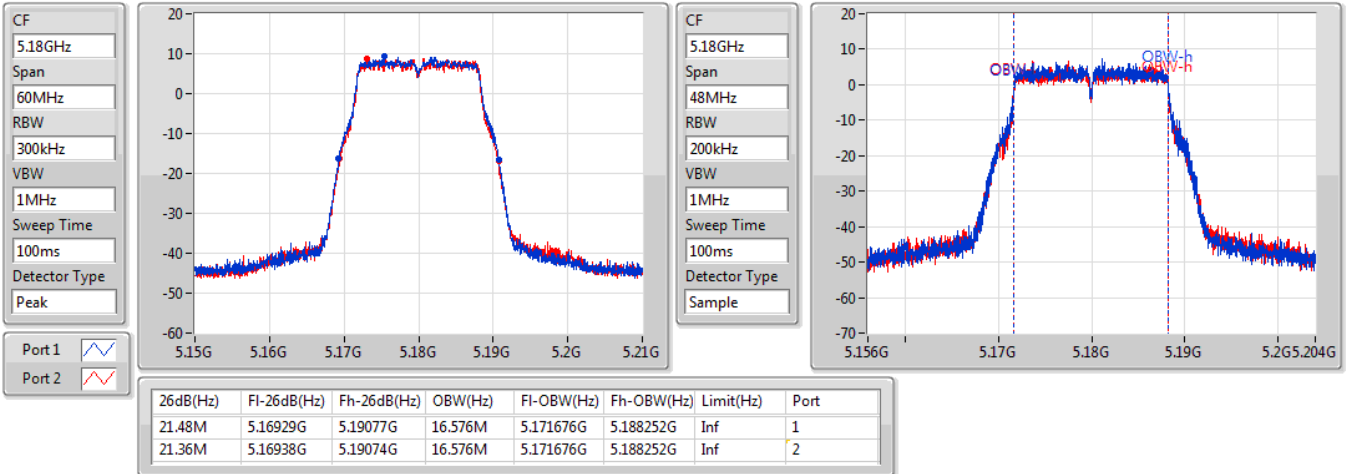
| Mode                           | Result | Limit<br>(Hz) | Port 1-N dB<br>(Hz) | Port 1-OBW<br>(Hz) | Port 2-N dB<br>(Hz) | Port 2-OBW<br>(Hz) |
|--------------------------------|--------|---------------|---------------------|--------------------|---------------------|--------------------|
| 5755MHz                        | Pass   | 500k          | 36.84M              | 37.517M            | 37.14M              | 37.517M            |
| 5795MHz                        | Pass   | 500k          | 37.08M              | 37.565M            | 37.26M              | 37.565M            |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 5210MHz                        | Pass   | Inf           | 82.2M               | 77.049M            | 81.48M              | 77.241M            |
| 5775MHz                        | Pass   | 500k          | 75.96M              | 76.858M            | 75M                 | 76.954M            |

**Port X-N dB** = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

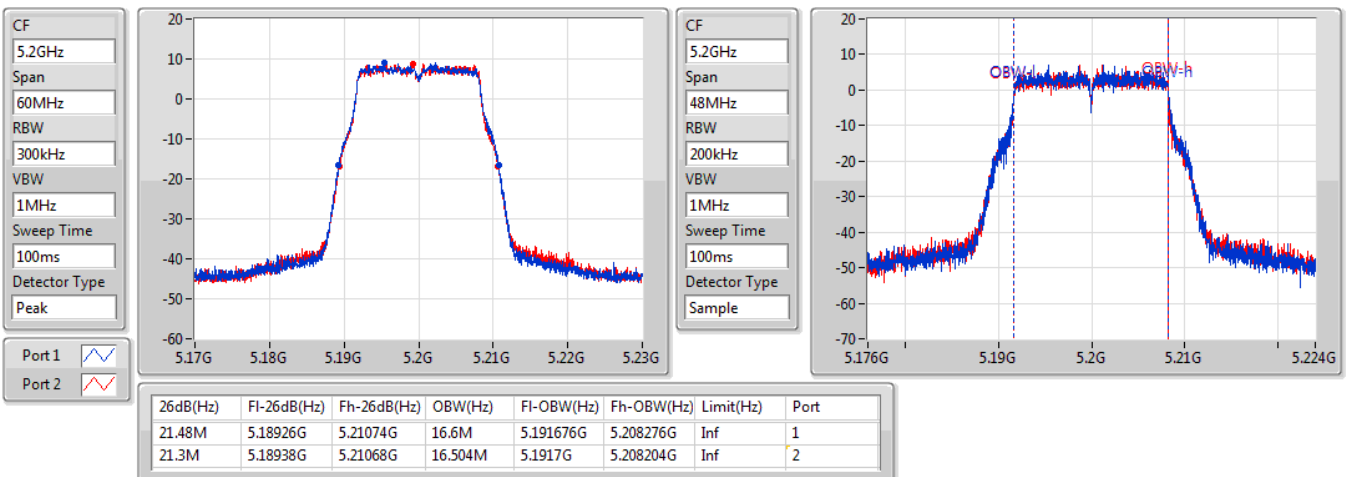
**Port X-OBW** = Port X 99% occupied bandwidth;

**802.11a\_Nss1,(6Mbps)\_2TX**
**EBW**
**5180MHz**

20/07/2020

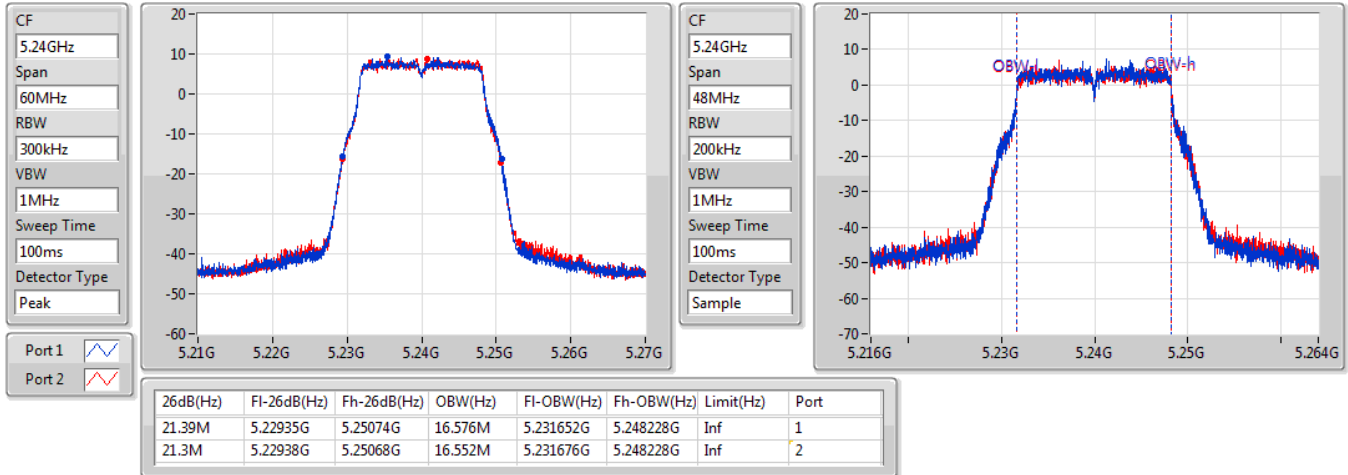

**802.11a\_Nss1,(6Mbps)\_2TX**
**EBW**
**5200MHz**

20/07/2020

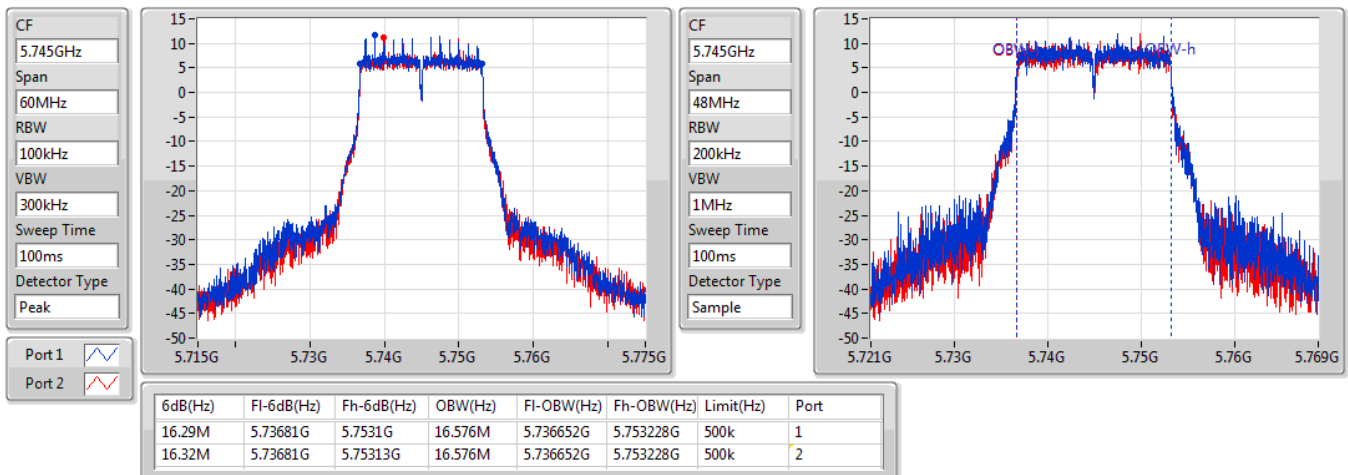


**802.11a\_Nss1,(6Mbps)\_2TX**
**EBW**
**5240MHz**

20/07/2020


**802.11a\_Nss1,(6Mbps)\_2TX**
**EBW**
**5745MHz**

16/07/2020

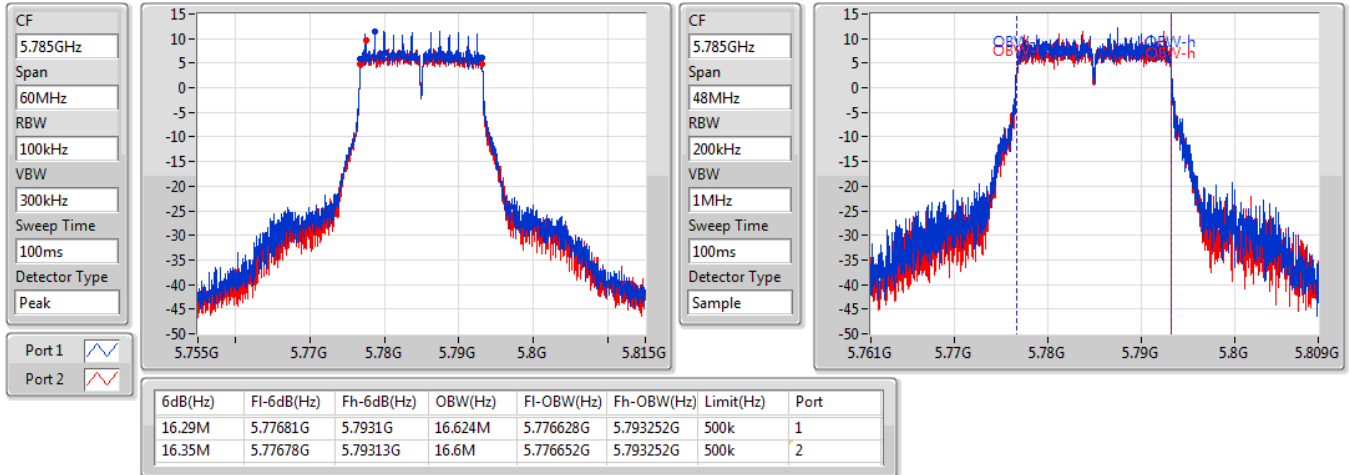


## 802.11a\_Nss1,(6Mbps)\_2TX

EBW

5785MHz

16/07/2020

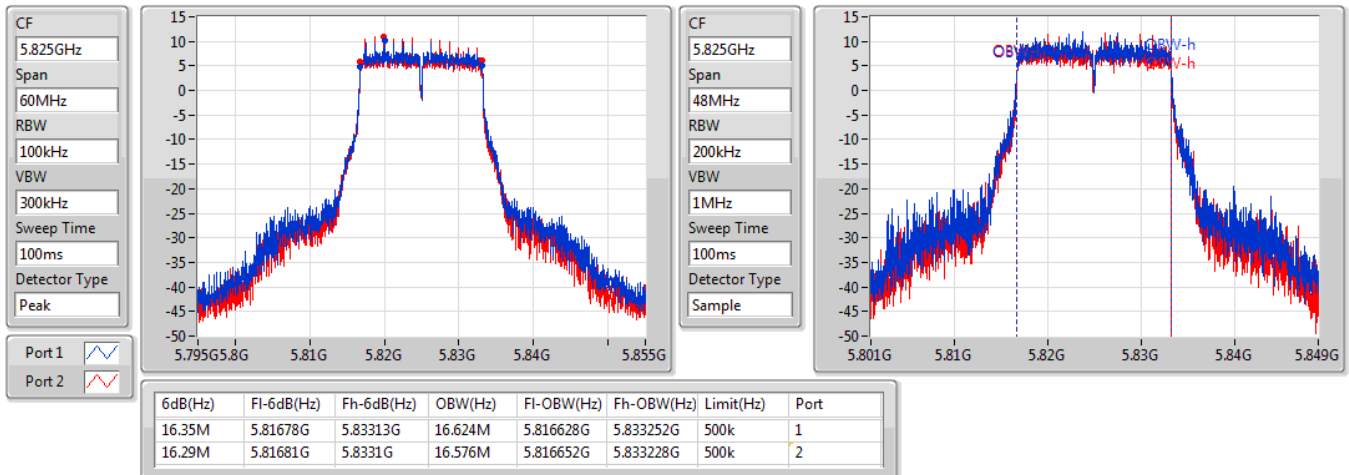


## 802.11a\_Nss1,(6Mbps)\_2TX

EBW

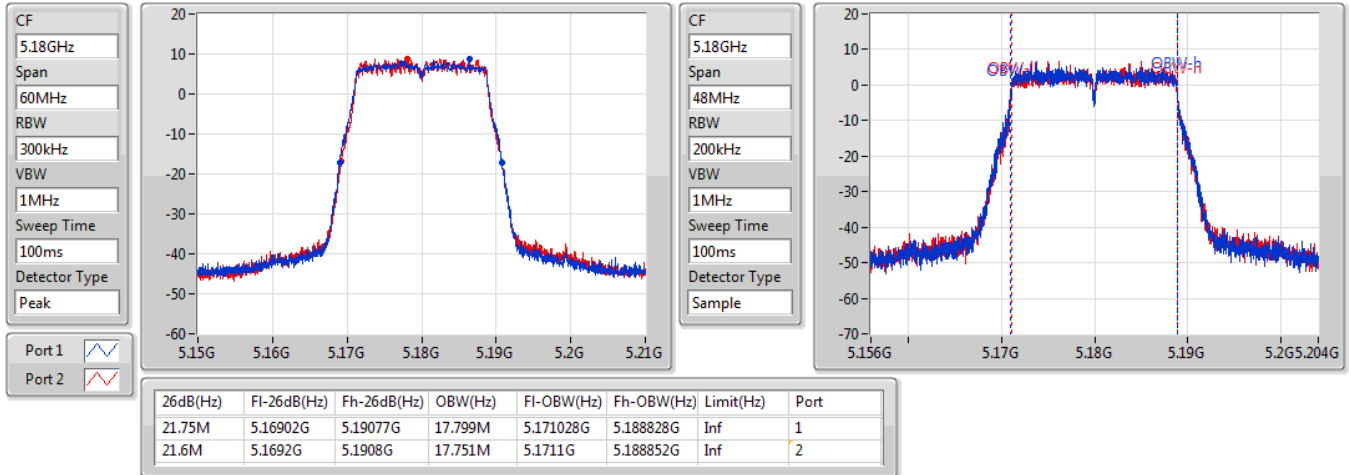
5825MHz

16/07/2020

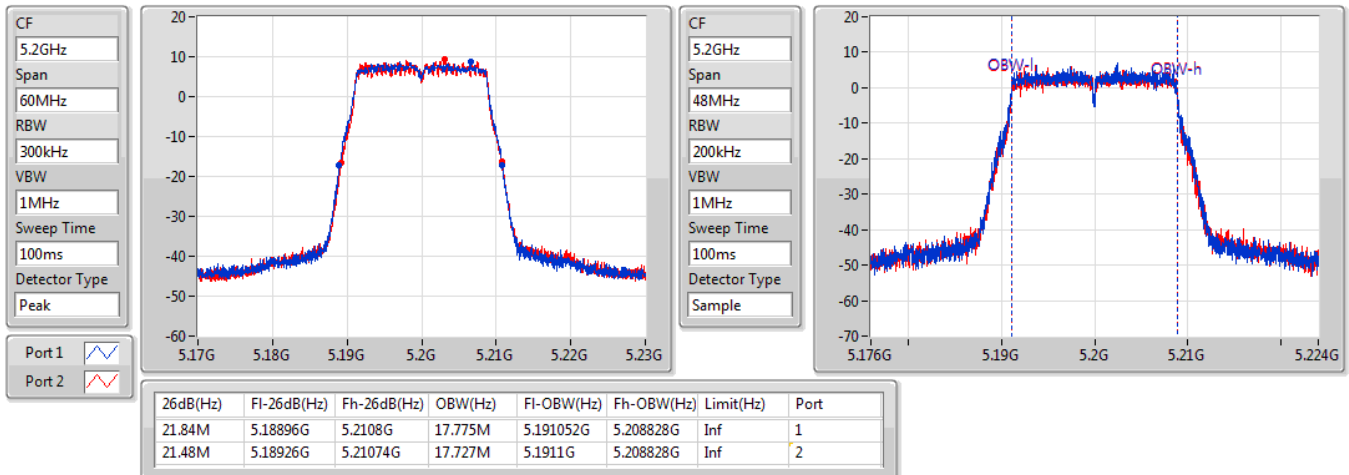


**802.11n HT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5180MHz**

22/07/2020

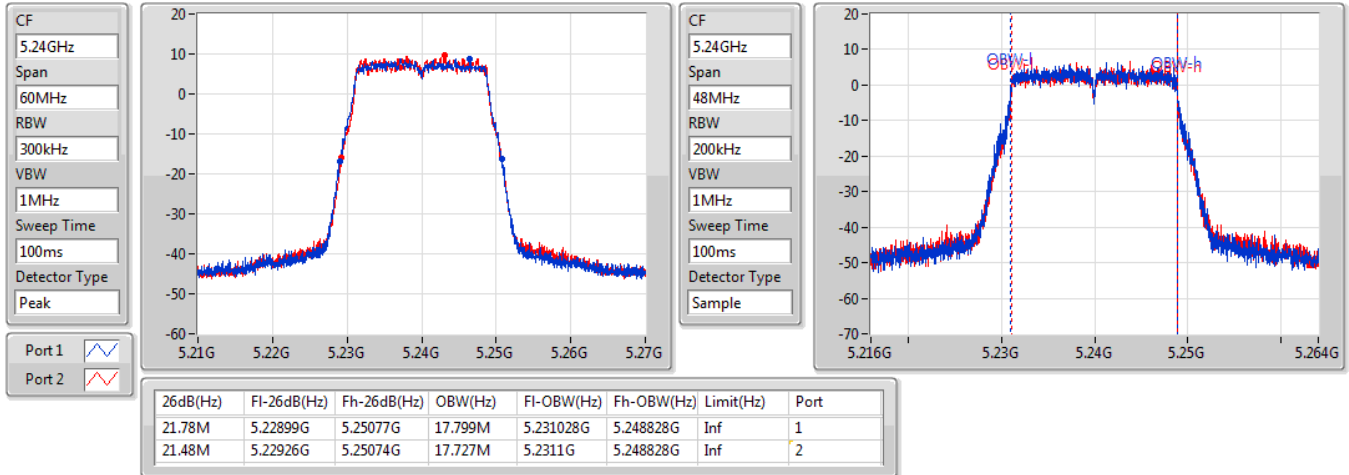

**802.11n HT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5200MHz**

22/07/2020

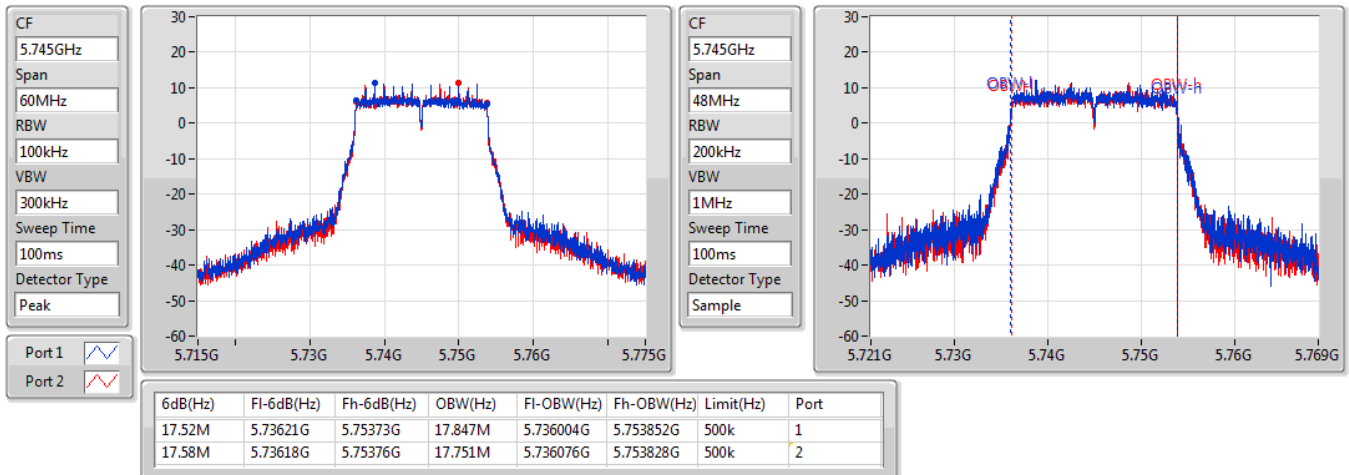


**802.11n HT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5240MHz**

22/07/2020


**802.11n HT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5745MHz**

22/07/2020

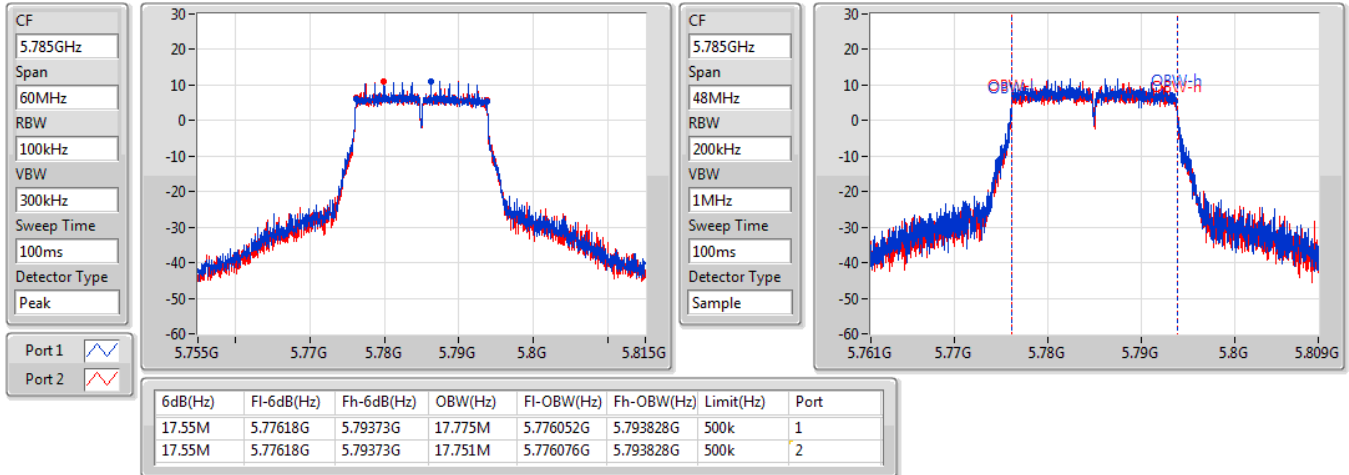


## 802.11n HT20\_Nss1,(MCS0)\_2TX

EBW

5785MHz

22/07/2020

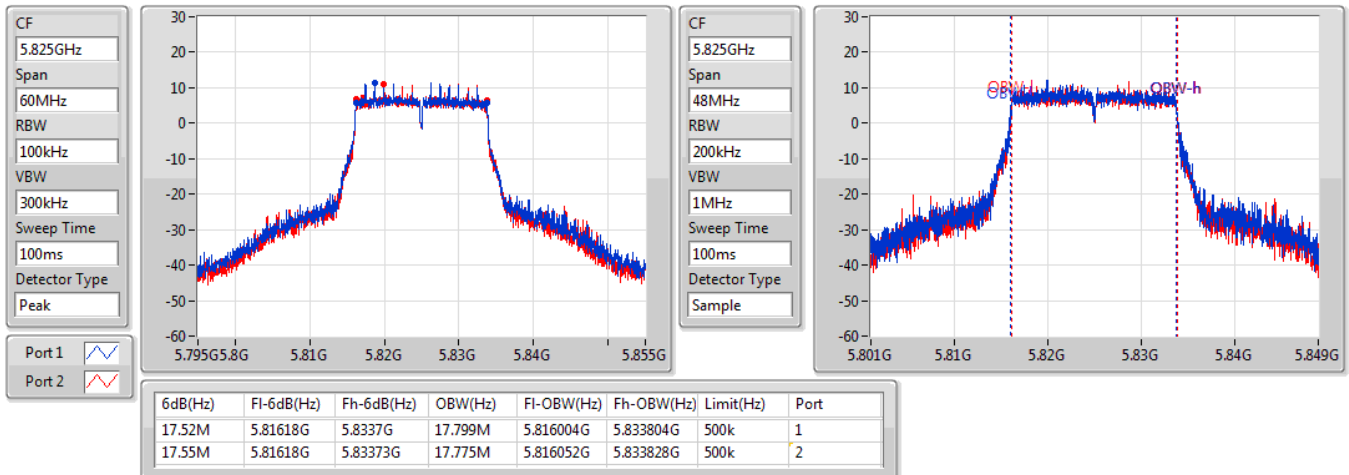


## 802.11n HT20\_Nss1,(MCS0)\_2TX

EBW

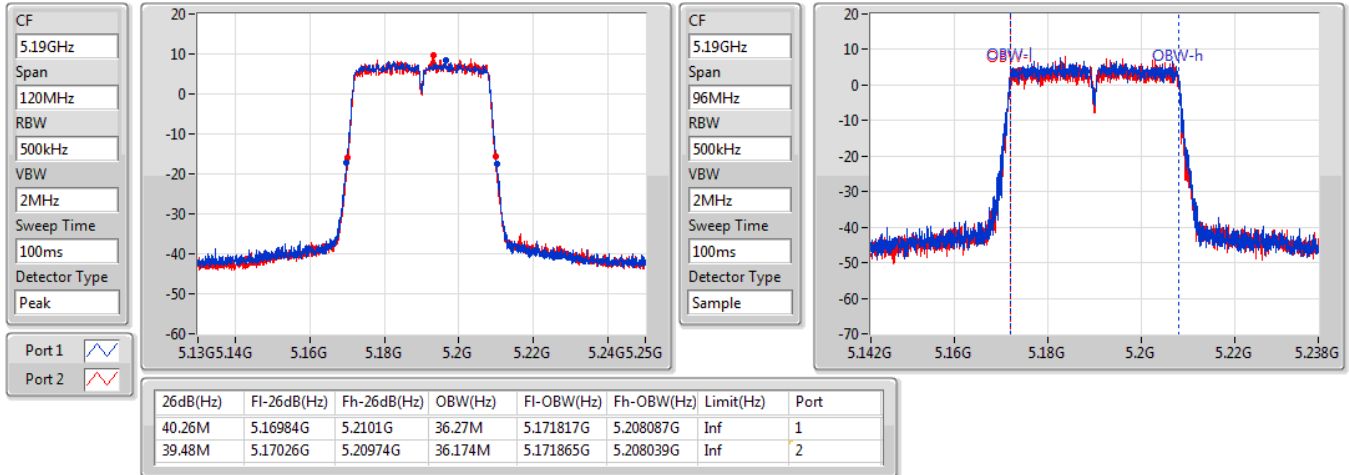
5825MHz

22/07/2020

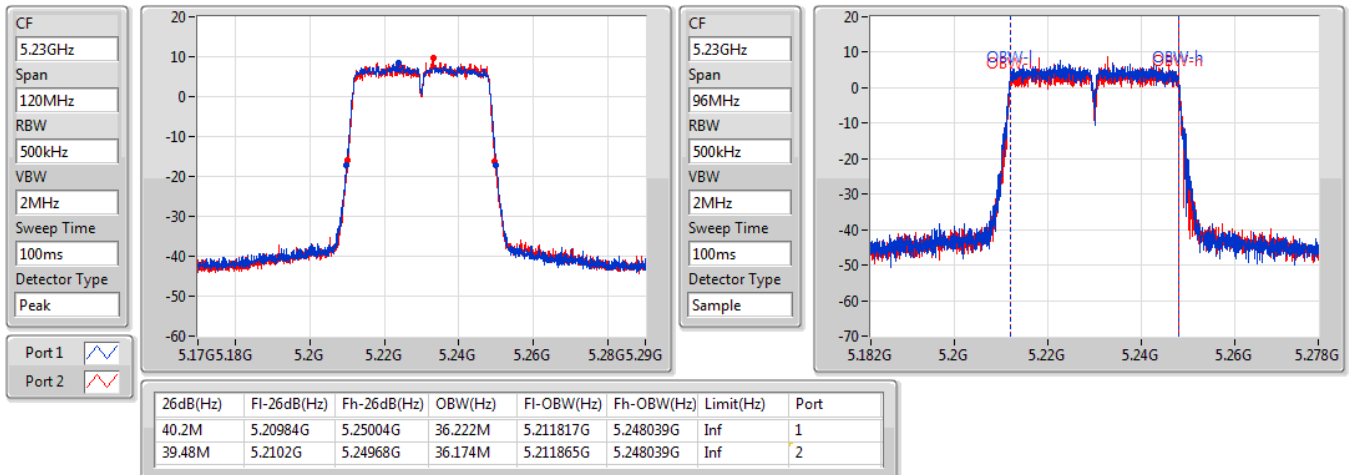


**802.11n HT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5190MHz**

22/07/2020

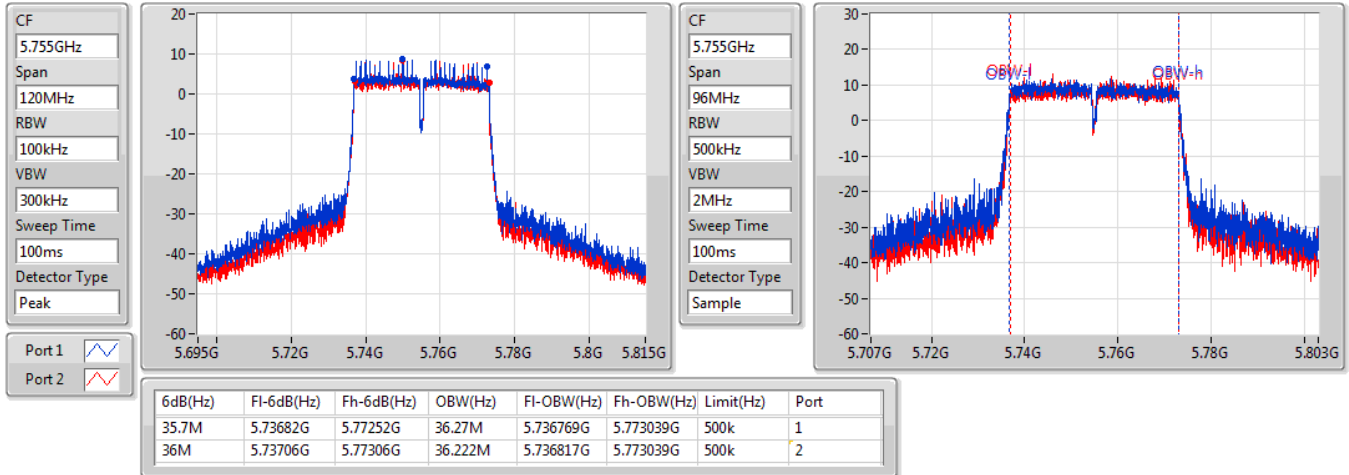

**802.11n HT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5230MHz**

22/07/2020

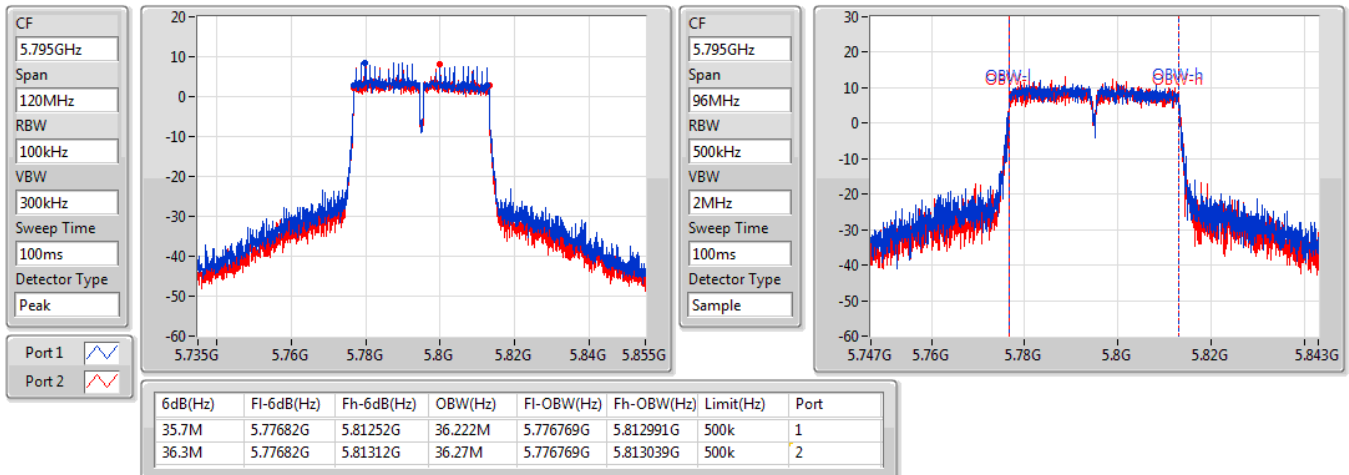


**802.11n HT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5755MHz**

22/07/2020

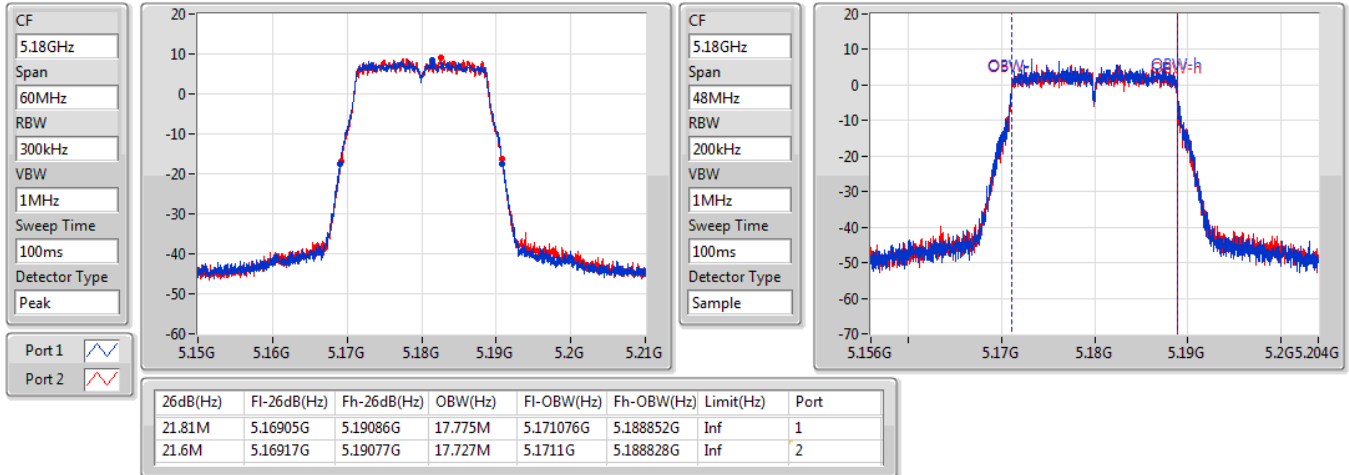

**802.11n HT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5795MHz**

22/07/2020

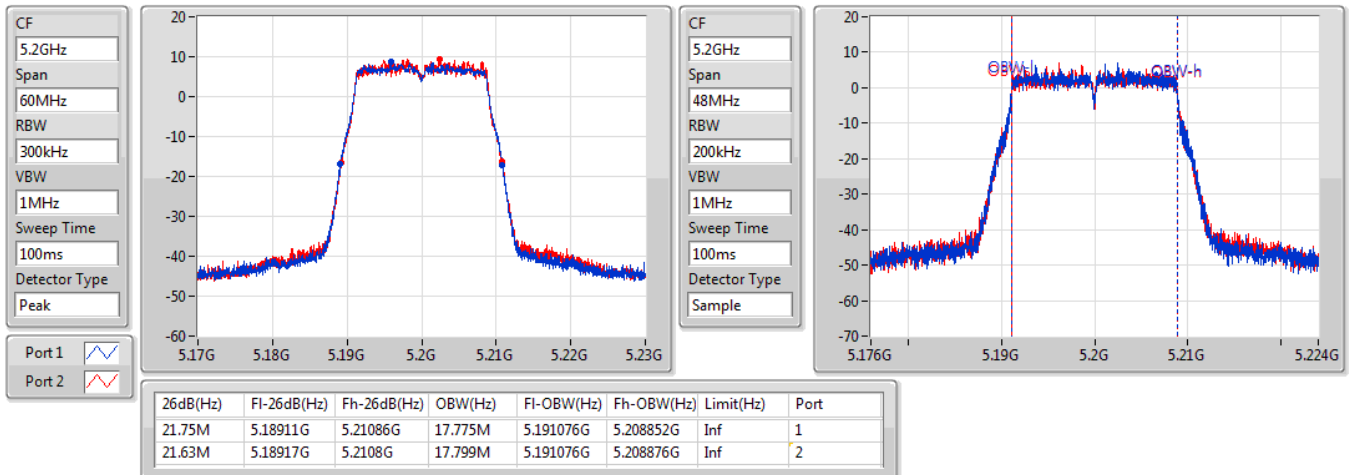


**802.11ac VHT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5180MHz**

20/07/2020

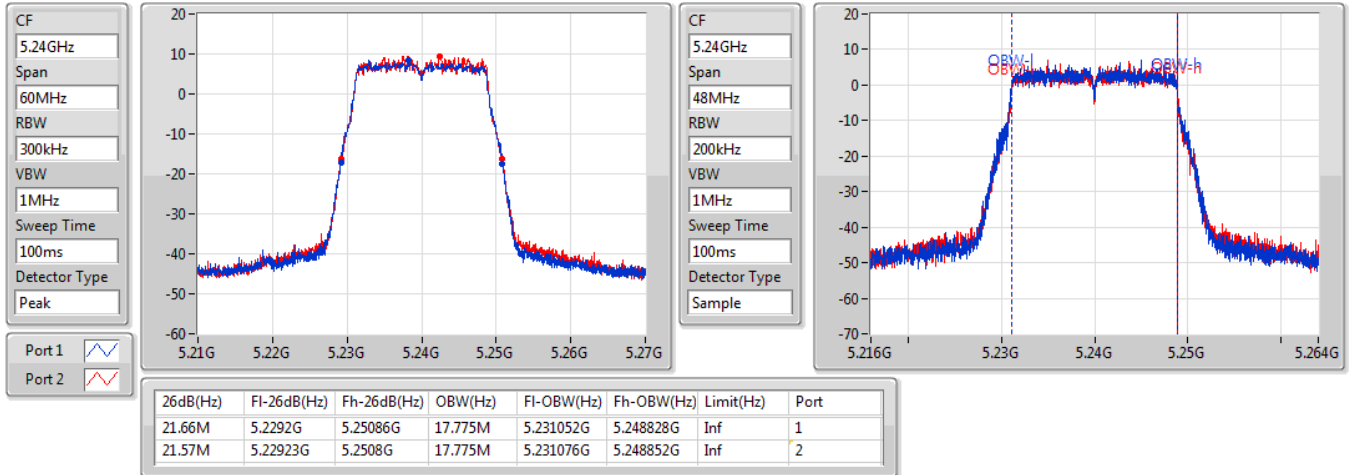

**802.11ac VHT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5200MHz**

20/07/2020

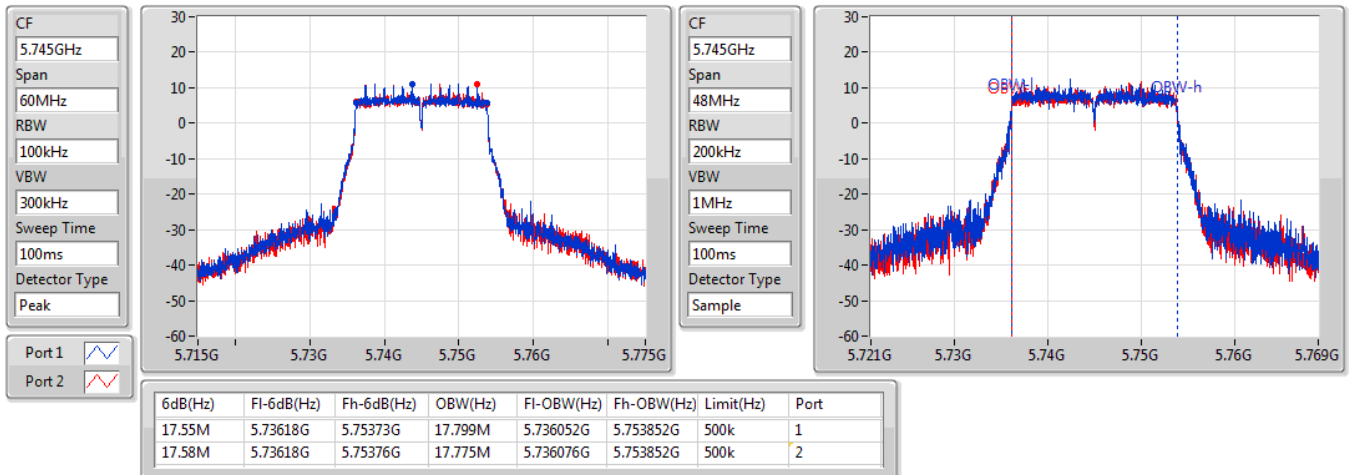


**802.11ac VHT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5240MHz**

20/07/2020

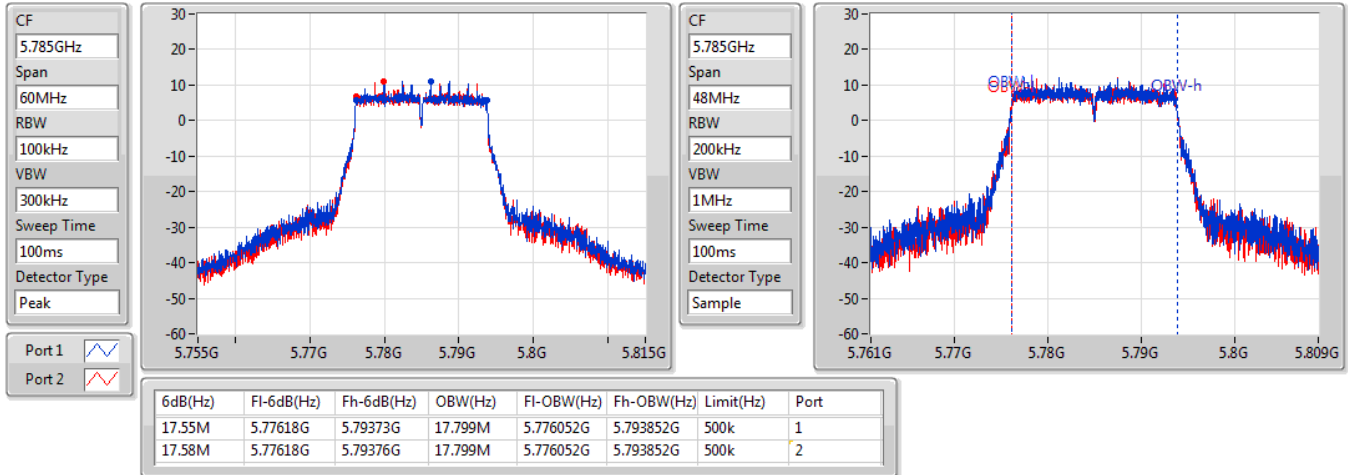

**802.11ac VHT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5745MHz**

17/07/2020

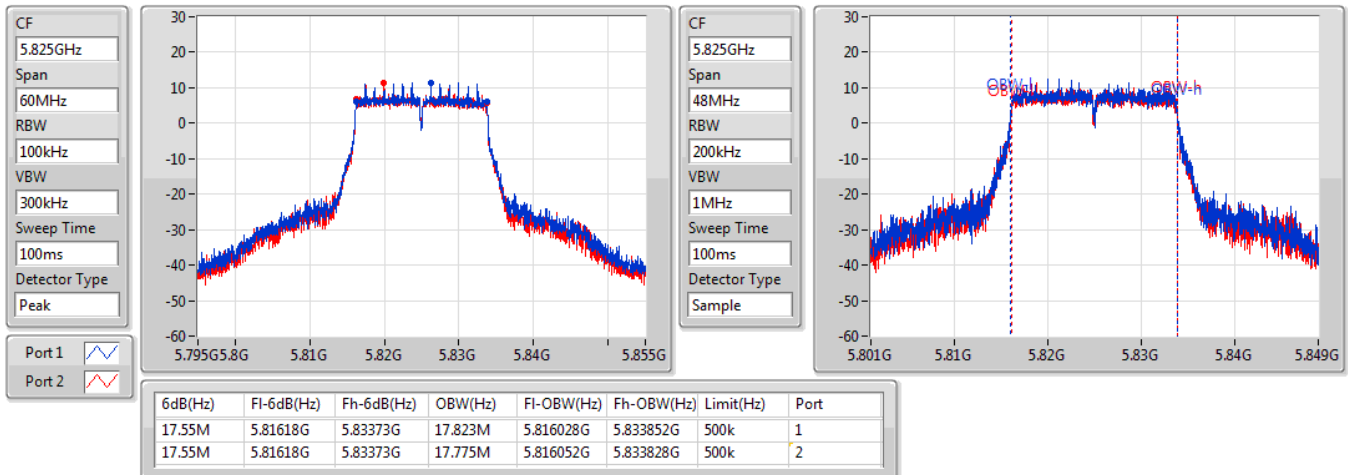


**802.11ac VHT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5785MHz**

17/07/2020

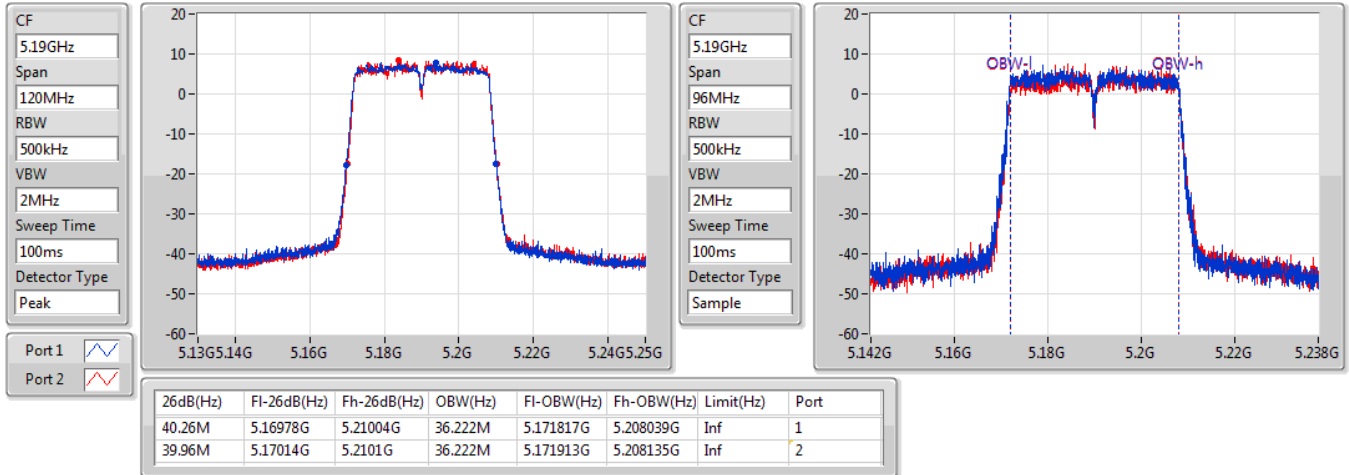

**802.11ac VHT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5825MHz**

17/07/2020

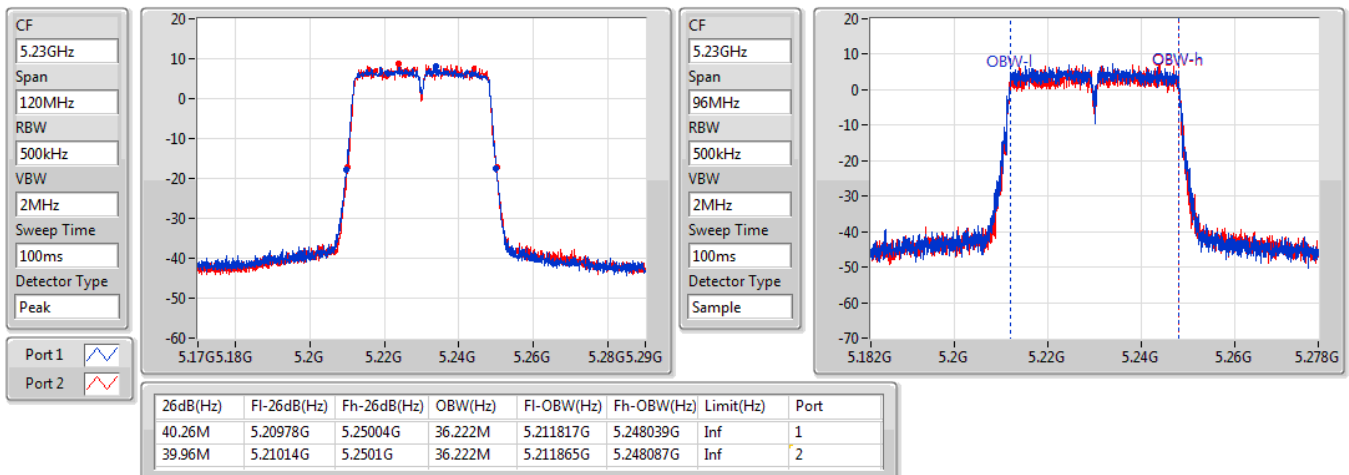


**802.11ac VHT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5190MHz**

20/07/2020

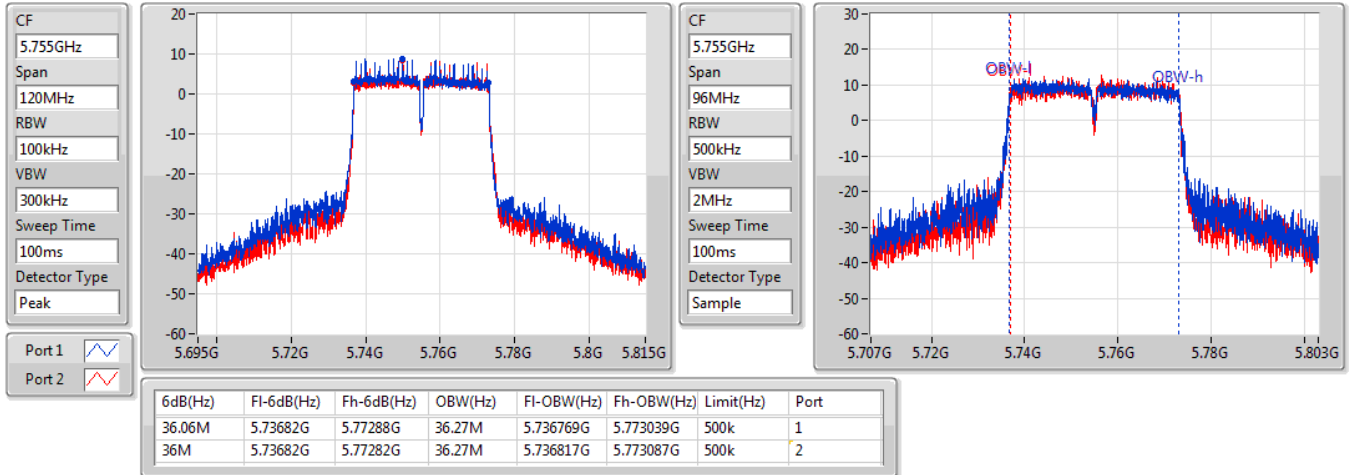

**802.11ac VHT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5230MHz**

20/07/2020

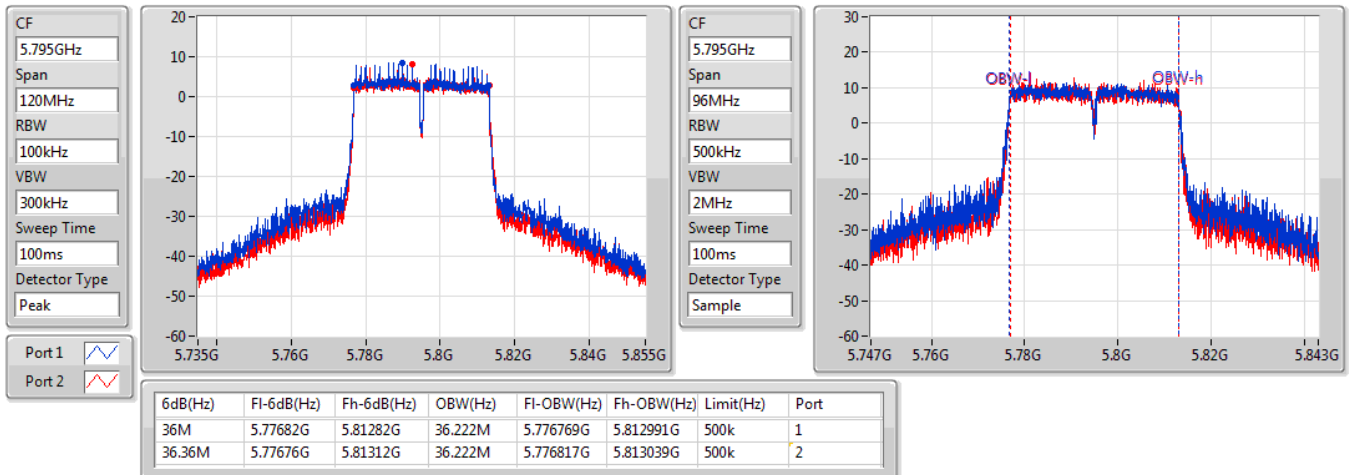


**802.11ac VHT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5755MHz**

17/07/2020

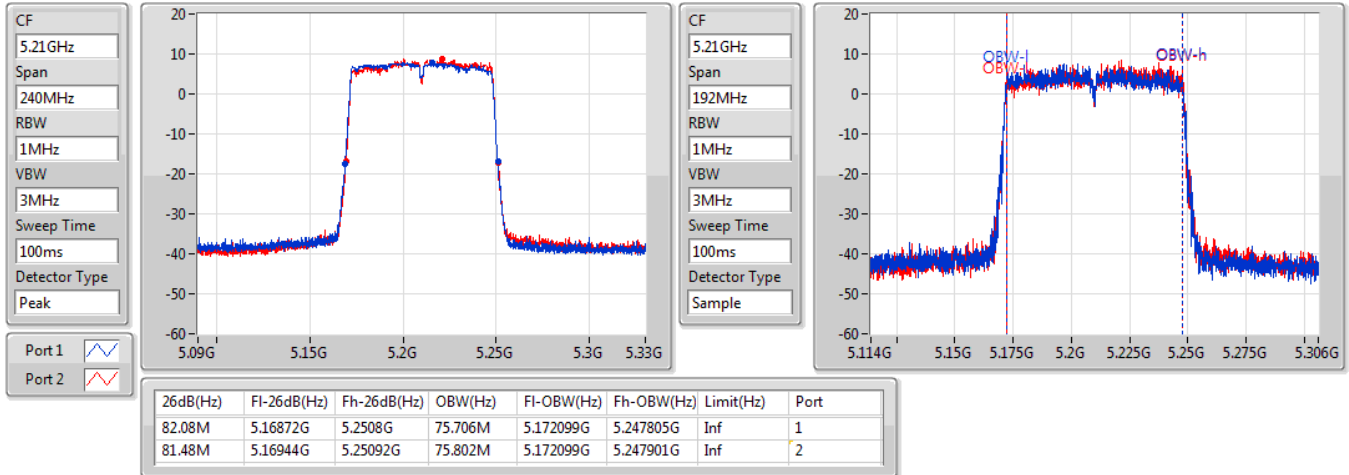

**802.11ac VHT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5795MHz**

17/07/2020

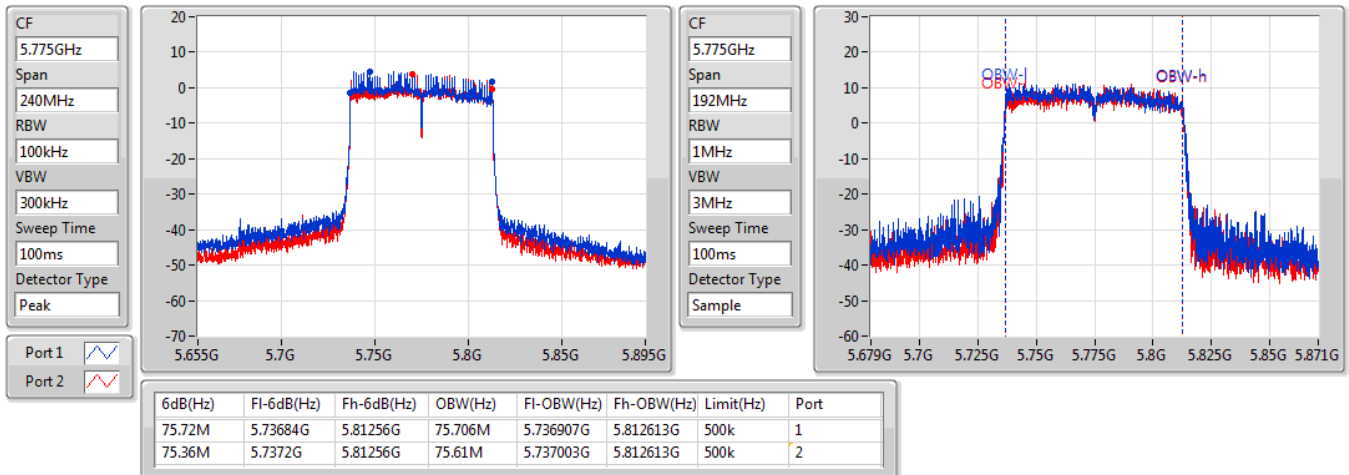


**802.11ac VHT80\_Nss1,(MCS0)\_2TX**
**EBW**
**5210MHz**

20/07/2020

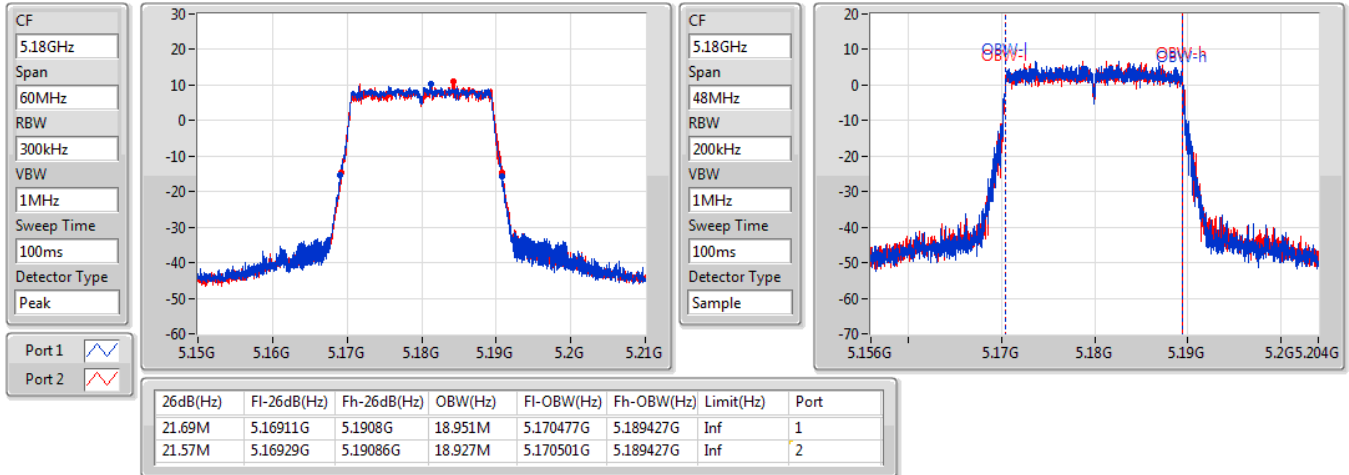

**802.11ac VHT80\_Nss1,(MCS0)\_2TX**
**EBW**
**5775MHz**

18/07/2020

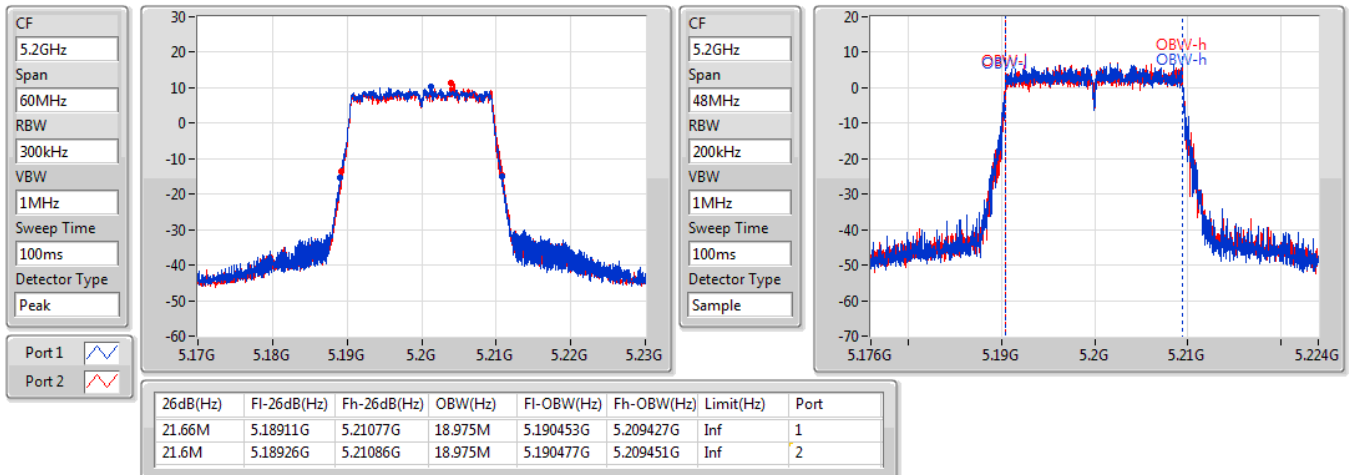


**802.11ax HEW20\_Nss1,(MCS0)\_2TX**
**EBW**
**5180MHz**

20/07/2020

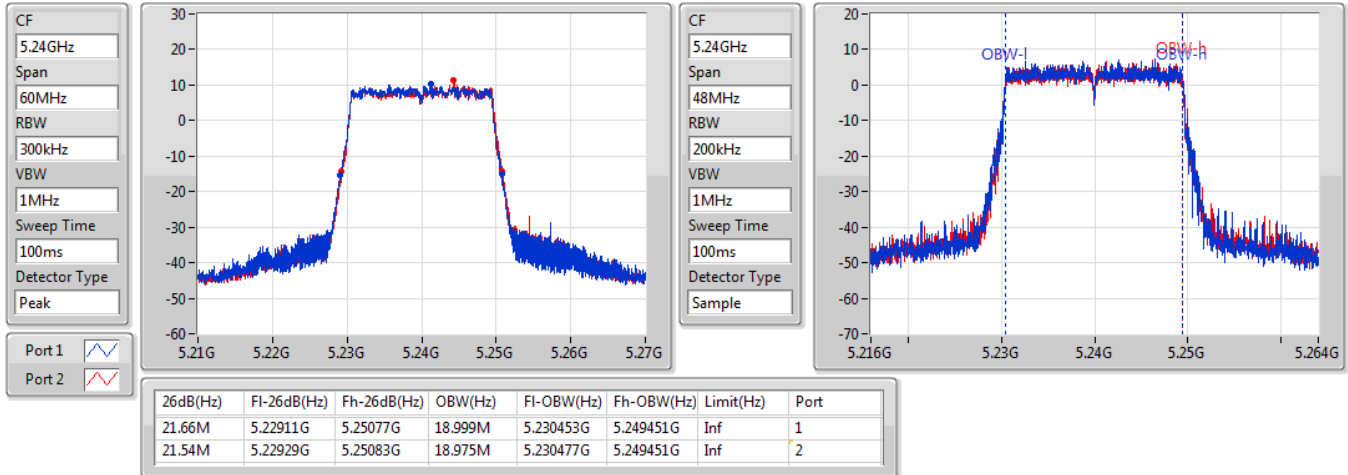

**802.11ax HEW20\_Nss1,(MCS0)\_2TX**
**EBW**
**5200MHz**

20/07/2020

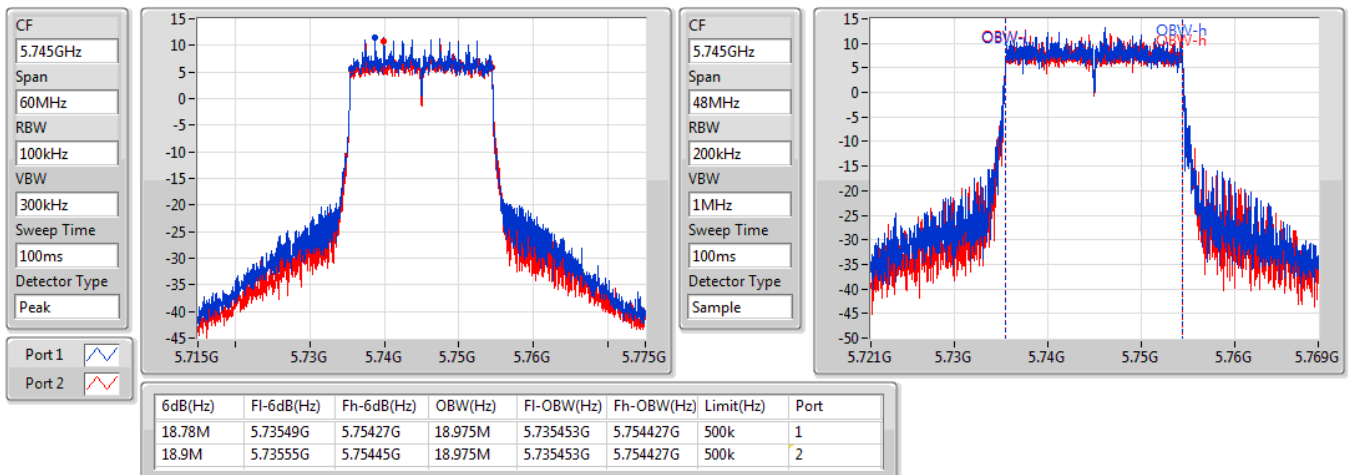


**802.11ax HEW20\_Nss1,(MCS0)\_2TX**
**EBW**
**5240MHz**

20/07/2020

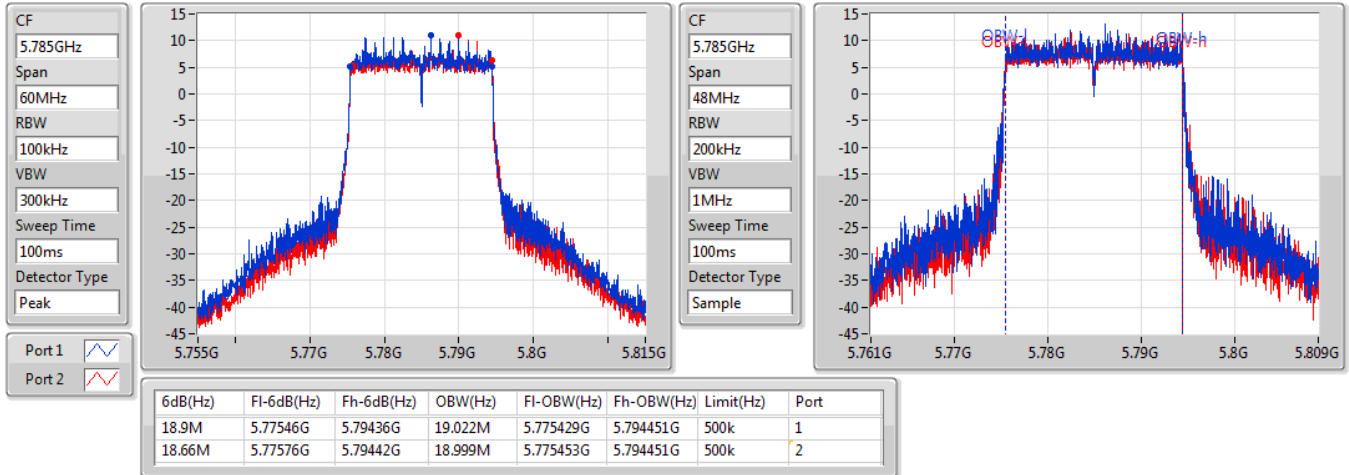

**802.11ax HEW20\_Nss1,(MCS0)\_2TX**
**EBW**
**5745MHz**

16/07/2020

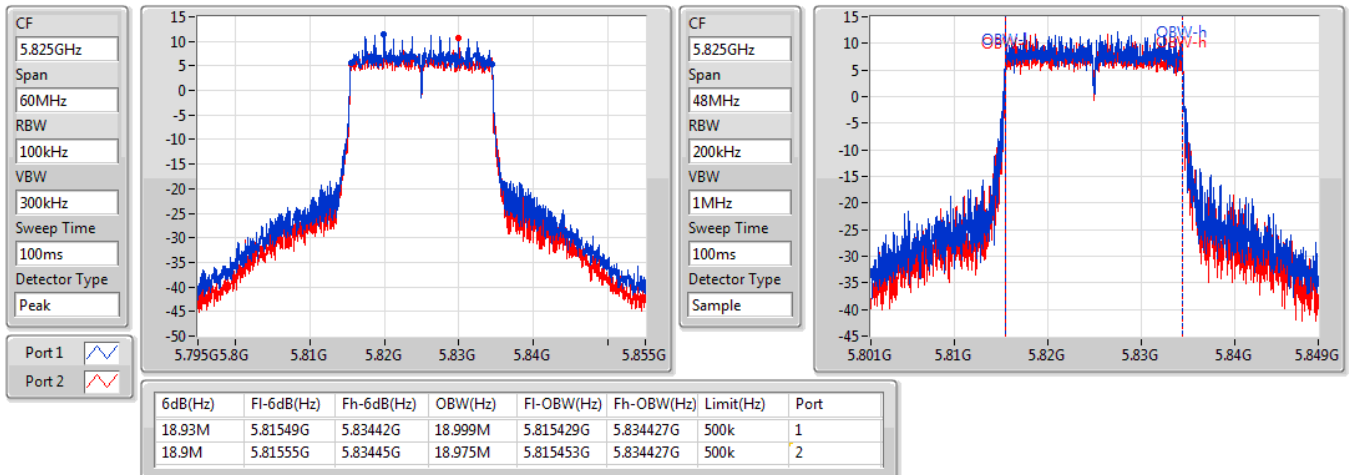


**802.11ax HEW20\_Nss1,(MCS0)\_2TX**
**EBW**
**5785MHz**

16/07/2020

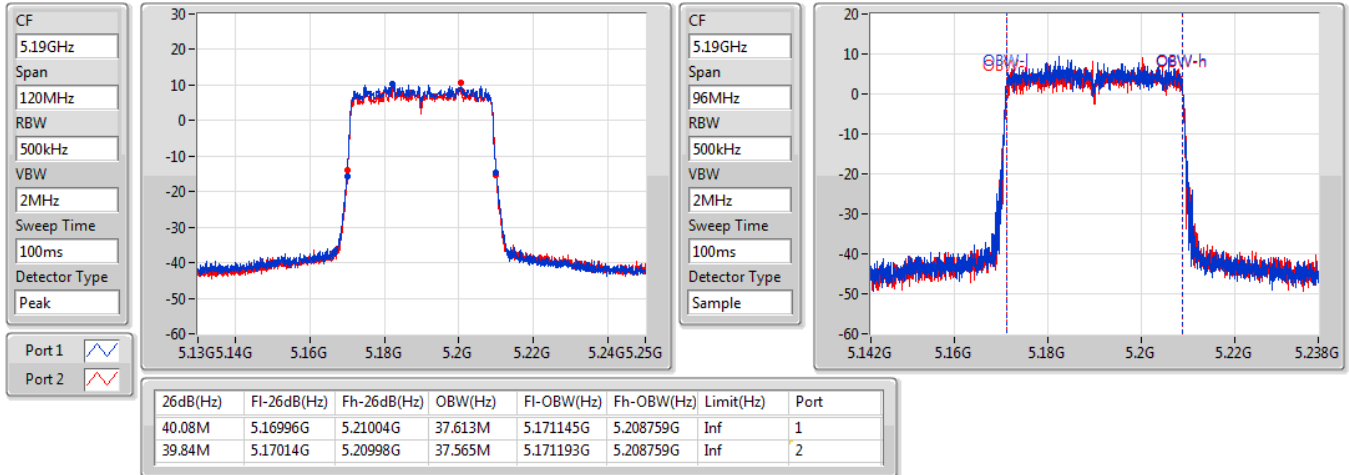

**802.11ax HEW20\_Nss1,(MCS0)\_2TX**
**EBW**
**5825MHz**

16/07/2020

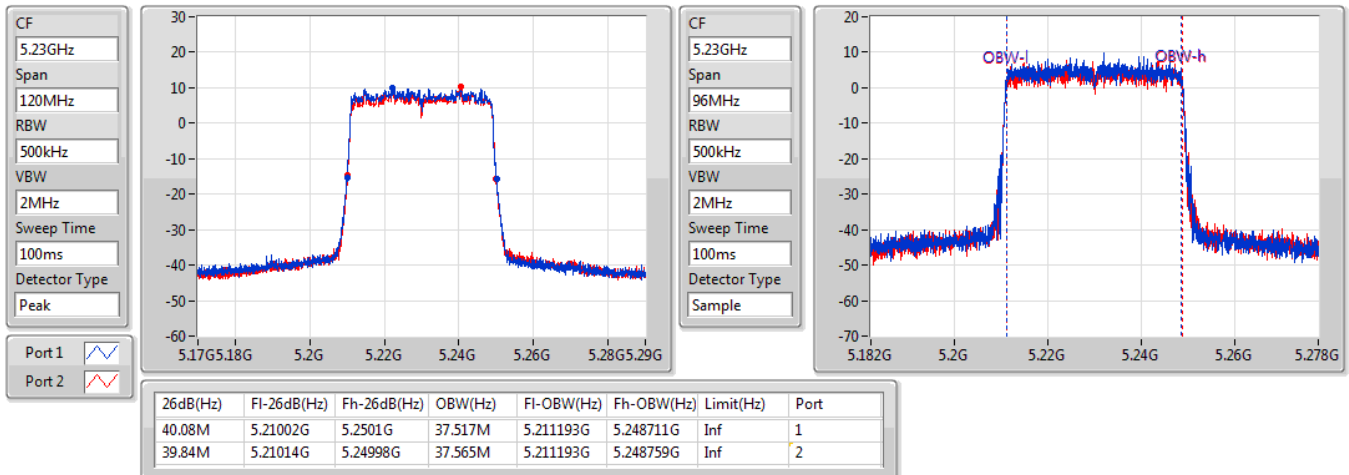


**802.11ax HEW40\_Nss1,(MCS0)\_2TX**
**EBW**
**5190MHz**

20/07/2020

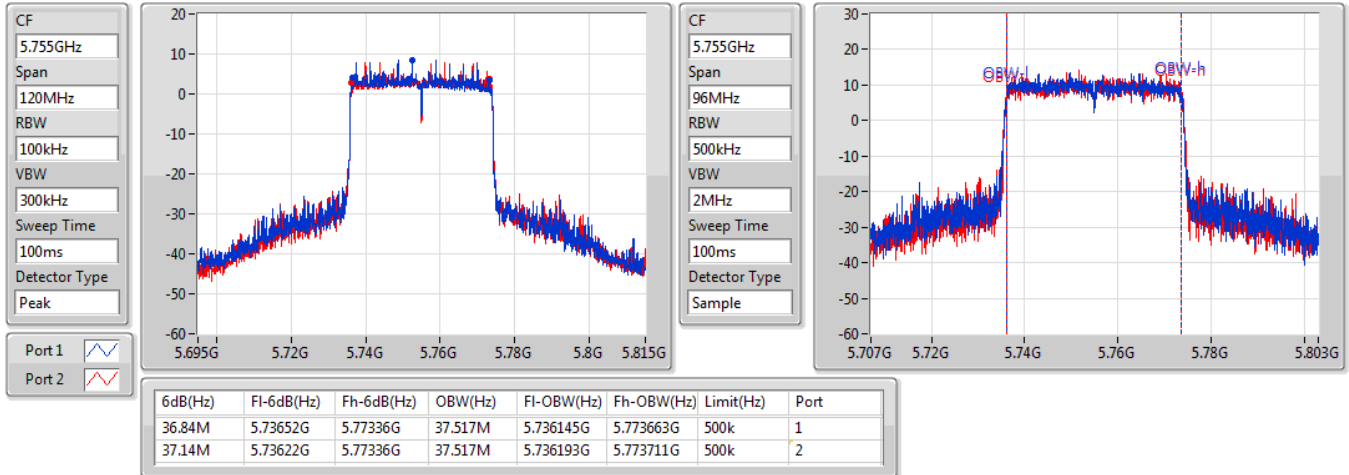

**802.11ax HEW40\_Nss1,(MCS0)\_2TX**
**EBW**
**5230MHz**

20/07/2020

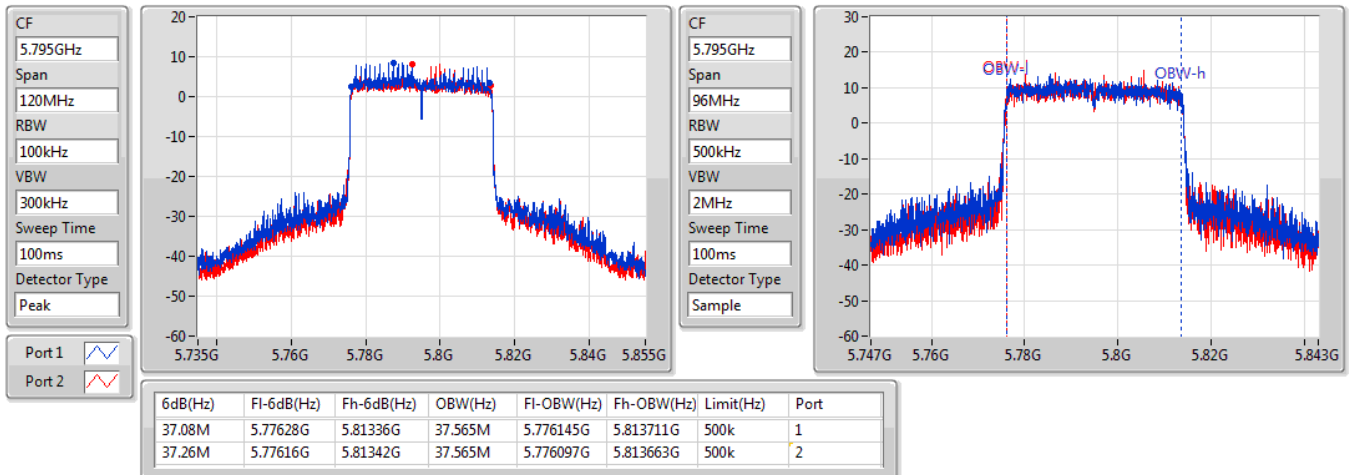


**802.11ax HEW40\_Nss1,(MCS0)\_2TX**
**EBW**
**5755MHz**

17/07/2020

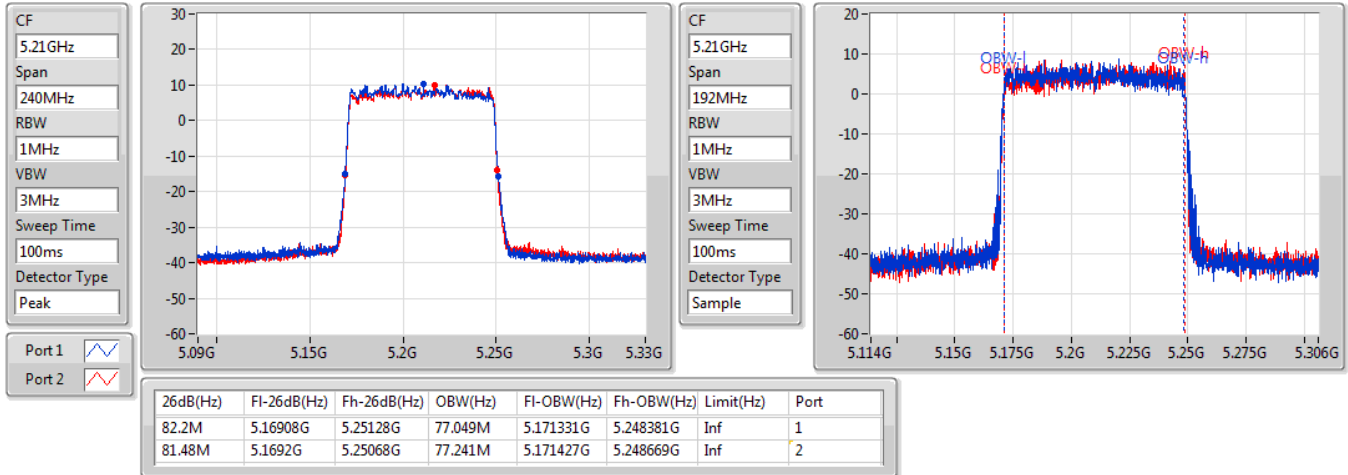

**802.11ax HEW40\_Nss1,(MCS0)\_2TX**
**EBW**
**5795MHz**

17/07/2020

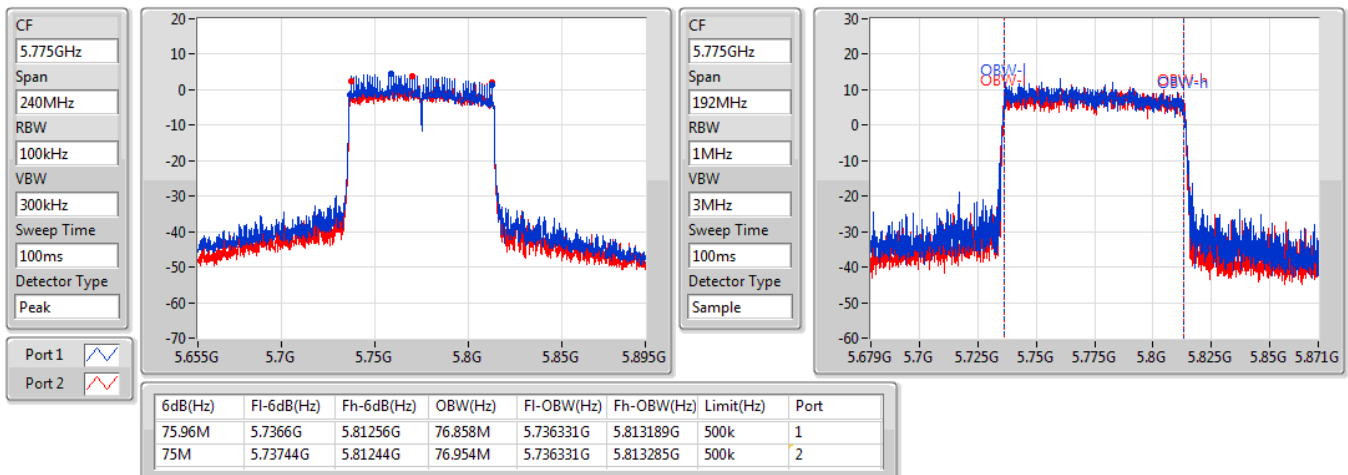


**802.11ax HEW80\_Nss1,(MCS0)\_2TX**
**EBW**
**5210MHz**

20/07/2020


**802.11ax HEW80\_Nss1,(MCS0)\_2TX**
**EBW**
**5775MHz**

17/07/2020



**Summary**

| Mode                           | Max-N dB<br>(Hz) | Max-OBW<br>(Hz) | ITU-Code | Min-N dB<br>(Hz) | Min-OBW<br>(Hz) |
|--------------------------------|------------------|-----------------|----------|------------------|-----------------|
| 5.15-5.25GHz                   | -                | -               | -        | -                | -               |
| 802.11a_Nss1,(6Mbps)_2TX       | 21.48M           | 16.6M           | 16M6D1D  | 21.27M           | 16.576M         |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 21.78M           | 17.823M         | 17M8D1D  | 21.51M           | 17.727M         |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 40.26M           | 36.27M          | 36M3D1D  | 39.54M           | 36.174M         |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 21.78M           | 17.775M         | 17M8D1D  | 21.48M           | 17.751M         |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 40.26M           | 36.27M          | 36M3D1D  | 39.84M           | 36.222M         |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 81.96M           | 77.145M         | 77M1D1D  | 81.84M           | 76.954M         |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 21.72M           | 18.999M         | 19M0D1D  | 21.51M           | 18.951M         |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 40.02M           | 37.565M         | 37M6D1D  | 39.84M           | 37.469M         |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 82.08M           | 77.049M         | 77M0D1D  | 81.96M           | 77.049M         |
| 5.725-5.85GHz                  | -                | -               | -        | -                | -               |
| 802.11a_Nss1,(6Mbps)_2TX       | 16.35M           | 16.648M         | 16M6D1D  | 16.32M           | 16.6M           |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 17.58M           | 17.847M         | 17M8D1D  | 17.52M           | 17.727M         |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 36.3M            | 36.27M          | 36M3D1D  | 35.4M            | 36.222M         |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 17.58M           | 17.847M         | 17M8D1D  | 17.55M           | 17.775M         |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 36.3M            | 36.27M          | 36M3D1D  | 35.7M            | 36.222M         |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 75.48M           | 75.802M         | 75M8D1D  | 75.36M           | 75.802M         |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 18.87M           | 19.022M         | 19M0D1D  | 18.78M           | 18.975M         |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 37.2M            | 37.565M         | 37M6D1D  | 36.36M           | 37.469M         |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 76.08M           | 77.049M         | 77M0D1D  | 75.6M            | 76.954M         |

**Max-N dB** = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

**Max-OBW** = Maximum 99% occupied bandwidth;

**Min-N dB** = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

**Min-OBW** = Minimum 99% occupied bandwidth;

**Result**

| Mode                           | Result | Limit<br>(Hz) | Port 1-N dB<br>(Hz) | Port 1-OBW<br>(Hz) | Port 2-N dB<br>(Hz) | Port 2-OBW<br>(Hz) |
|--------------------------------|--------|---------------|---------------------|--------------------|---------------------|--------------------|
| 802.11a_Nss1,(6Mbps)_2TX       | -      | -             | -                   | -                  | -                   | -                  |
| 5180MHz                        | Pass   | Inf           | 21.42M              | 16.576M            | 21.27M              | 16.6M              |
| 5200MHz                        | Pass   | Inf           | 21.48M              | 16.6M              | 21.3M               | 16.6M              |
| 5240MHz                        | Pass   | Inf           | 21.48M              | 16.576M            | 21.3M               | 16.576M            |
| 5745MHz                        | Pass   | 500k          | 16.35M              | 16.624M            | 16.35M              | 16.624M            |
| 5785MHz                        | Pass   | 500k          | 16.32M              | 16.6M              | 16.32M              | 16.6M              |
| 5825MHz                        | Pass   | 500k          | 16.32M              | 16.648M            | 16.32M              | 16.624M            |
| 802.11n HT20_Nss1,(MCS0)_2TX   | -      | -             | -                   | -                  | -                   | -                  |
| 5180MHz                        | Pass   | Inf           | 21.78M              | 17.799M            | 21.51M              | 17.751M            |
| 5200MHz                        | Pass   | Inf           | 21.78M              | 17.823M            | 21.51M              | 17.751M            |
| 5240MHz                        | Pass   | Inf           | 21.75M              | 17.775M            | 21.54M              | 17.727M            |
| 5745MHz                        | Pass   | 500k          | 17.55M              | 17.799M            | 17.58M              | 17.751M            |
| 5785MHz                        | Pass   | 500k          | 17.52M              | 17.847M            | 17.55M              | 17.727M            |
| 5825MHz                        | Pass   | 500k          | 17.55M              | 17.823M            | 17.58M              | 17.775M            |
| 802.11n HT40_Nss1,(MCS0)_2TX   | -      | -             | -                   | -                  | -                   | -                  |
| 5190MHz                        | Pass   | Inf           | 40.26M              | 36.222M            | 39.54M              | 36.27M             |
| 5230MHz                        | Pass   | Inf           | 40.26M              | 36.174M            | 39.54M              | 36.222M            |
| 5755MHz                        | Pass   | 500k          | 35.4M               | 36.222M            | 36.3M               | 36.27M             |
| 5795MHz                        | Pass   | 500k          | 36.3M               | 36.27M             | 36.3M               | 36.222M            |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 5180MHz                        | Pass   | Inf           | 21.78M              | 17.751M            | 21.54M              | 17.751M            |
| 5200MHz                        | Pass   | Inf           | 21.75M              | 17.751M            | 21.6M               | 17.751M            |
| 5240MHz                        | Pass   | Inf           | 21.72M              | 17.751M            | 21.48M              | 17.775M            |
| 5745MHz                        | Pass   | 500k          | 17.55M              | 17.775M            | 17.58M              | 17.775M            |
| 5785MHz                        | Pass   | 500k          | 17.55M              | 17.847M            | 17.55M              | 17.775M            |
| 5825MHz                        | Pass   | 500k          | 17.55M              | 17.799M            | 17.55M              | 17.799M            |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 5190MHz                        | Pass   | Inf           | 40.26M              | 36.27M             | 39.96M              | 36.222M            |
| 5230MHz                        | Pass   | Inf           | 40.2M               | 36.27M             | 39.84M              | 36.222M            |
| 5755MHz                        | Pass   | 500k          | 36M                 | 36.27M             | 36.3M               | 36.222M            |
| 5795MHz                        | Pass   | 500k          | 35.7M               | 36.27M             | 36.3M               | 36.27M             |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 5210MHz                        | Pass   | Inf           | 81.96M              | 76.954M            | 81.84M              | 77.145M            |
| 5775MHz                        | Pass   | 500k          | 75.48M              | 75.802M            | 75.36M              | 75.802M            |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 5180MHz                        | Pass   | Inf           | 21.72M              | 18.999M            | 21.51M              | 18.999M            |
| 5200MHz                        | Pass   | Inf           | 21.69M              | 18.975M            | 21.57M              | 18.951M            |
| 5240MHz                        | Pass   | Inf           | 21.72M              | 18.975M            | 21.54M              | 18.975M            |
| 5745MHz                        | Pass   | 500k          | 18.87M              | 18.975M            | 18.87M              | 18.999M            |
| 5785MHz                        | Pass   | 500k          | 18.78M              | 18.975M            | 18.87M              | 18.975M            |
| 5825MHz                        | Pass   | 500k          | 18.78M              | 19.022M            | 18.78M              | 18.999M            |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 5190MHz                        | Pass   | Inf           | 40.02M              | 37.565M            | 39.84M              | 37.517M            |
| 5230MHz                        | Pass   | Inf           | 40.02M              | 37.469M            | 39.84M              | 37.565M            |



## EBW\_outdoor Sample 2

## Appendix B.4

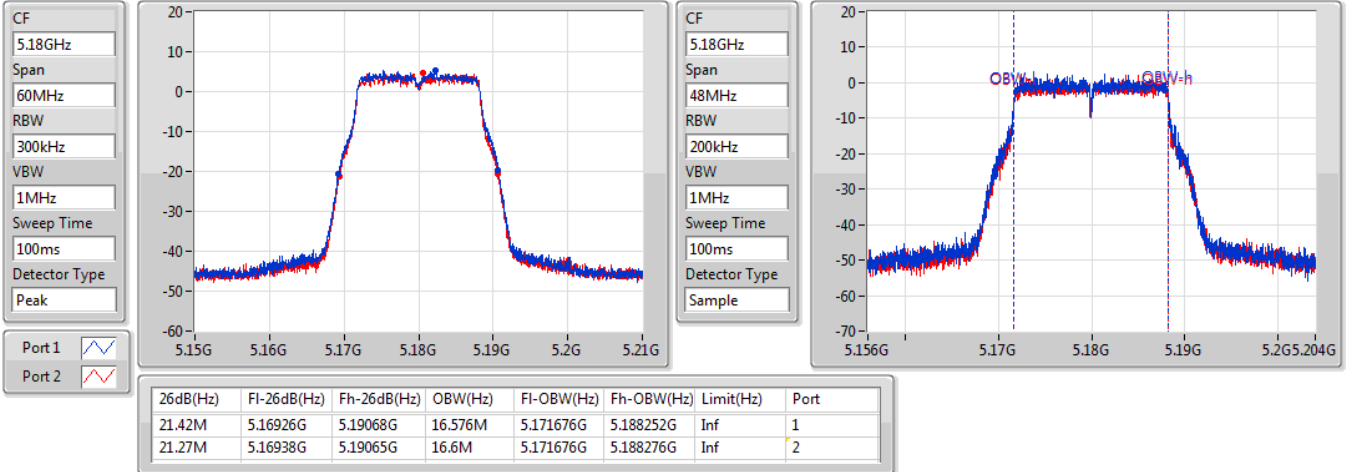
| Mode                           | Result | Limit<br>(Hz) | Port 1-N dB<br>(Hz) | Port 1-OBW<br>(Hz) | Port 2-N dB<br>(Hz) | Port 2-OBW<br>(Hz) |
|--------------------------------|--------|---------------|---------------------|--------------------|---------------------|--------------------|
| 5755MHz                        | Pass   | 500k          | 36.54M              | 37.469M            | 36.36M              | 37.565M            |
| 5795MHz                        | Pass   | 500k          | 37.2M               | 37.469M            | 37.2M               | 37.565M            |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 5210MHz                        | Pass   | Inf           | 82.08M              | 77.049M            | 81.96M              | 77.049M            |
| 5775MHz                        | Pass   | 500k          | 76.08M              | 77.049M            | 75.6M               | 76.954M            |

**Port X-N dB** = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

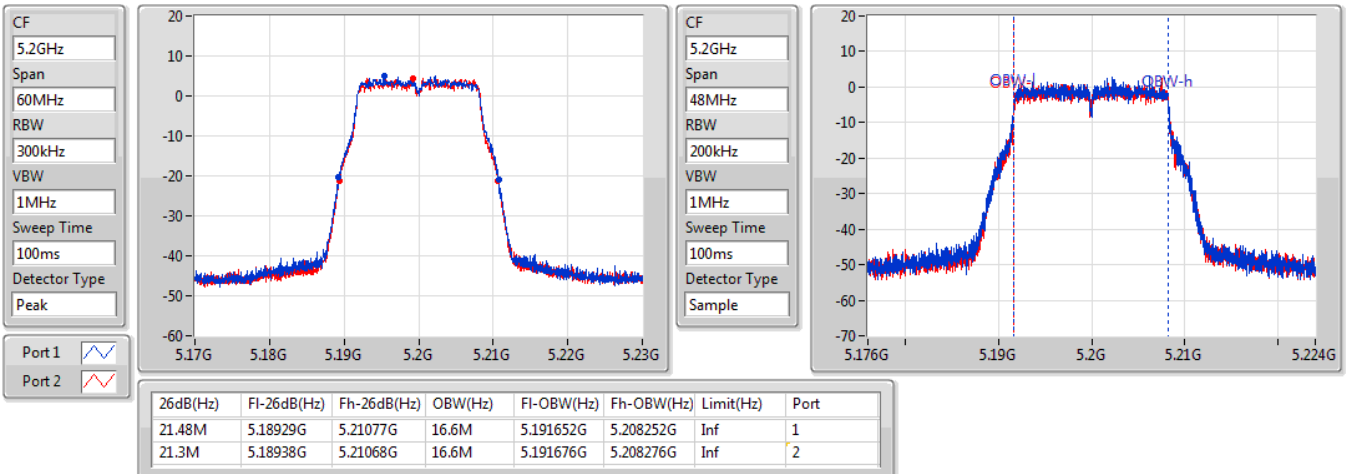
**Port X-OBW** = Port X 99% occupied bandwidth;

**802.11a\_Nss1,(6Mbps)\_2TX**
**EBW**
**5180MHz**

16/07/2020

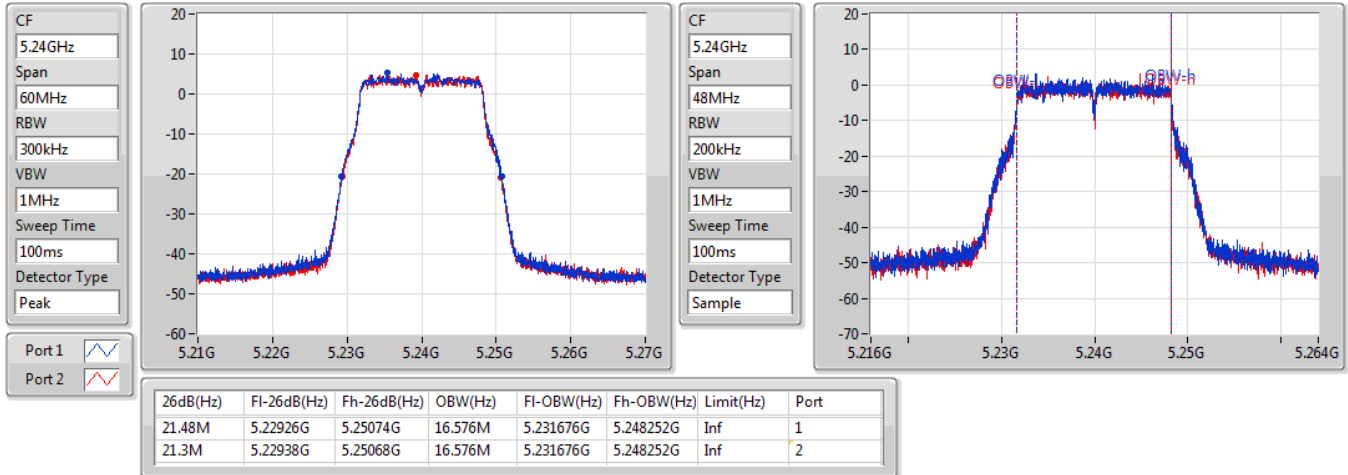

**802.11a\_Nss1,(6Mbps)\_2TX**
**EBW**
**5200MHz**

16/07/2020

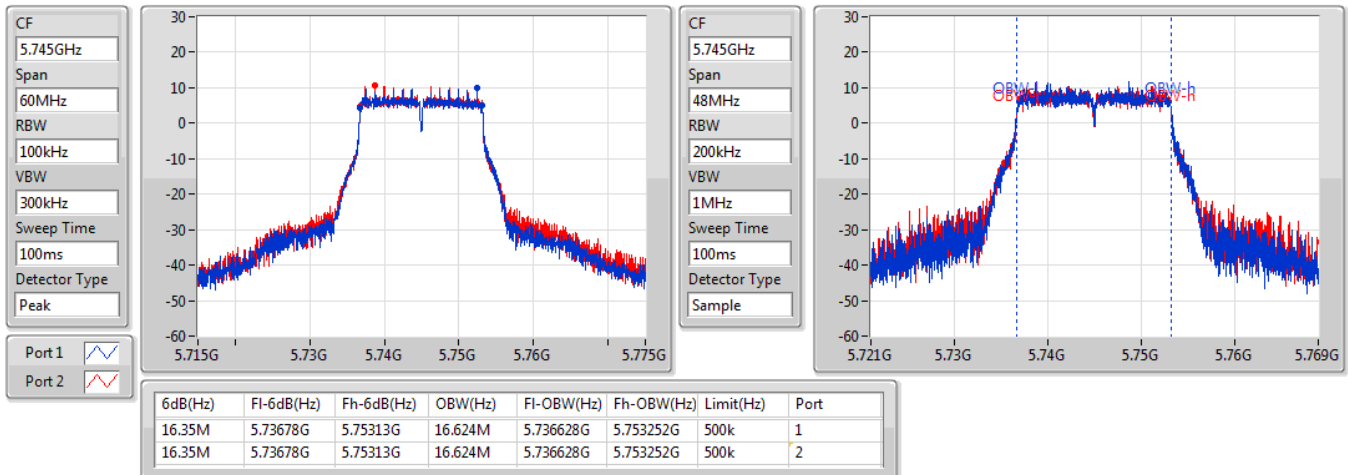


**802.11a\_Nss1,(6Mbps)\_2TX**
**EBW**
**5240MHz**

16/07/2020

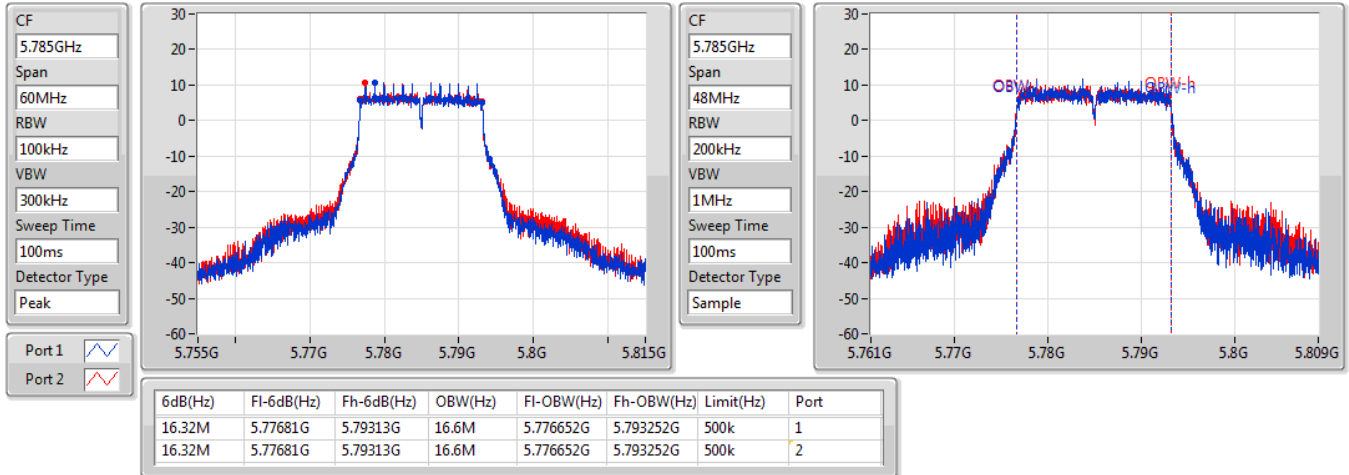

**802.11a\_Nss1,(6Mbps)\_2TX**
**EBW**
**5745MHz**

15/07/2020

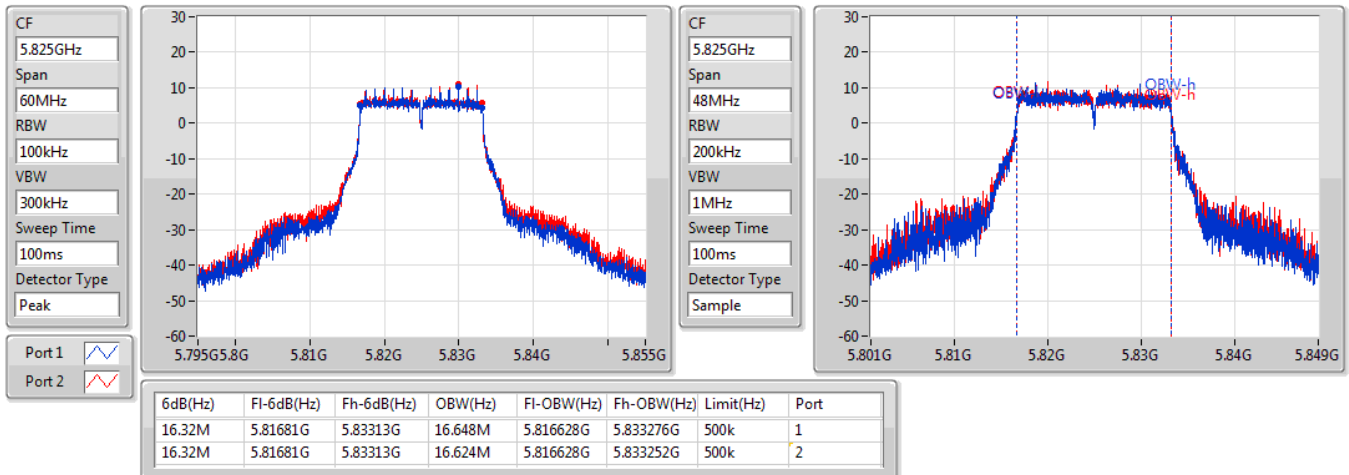


**802.11a\_Nss1,(6Mbps)\_2TX**
**EBW**
**5785MHz**

15/07/2020

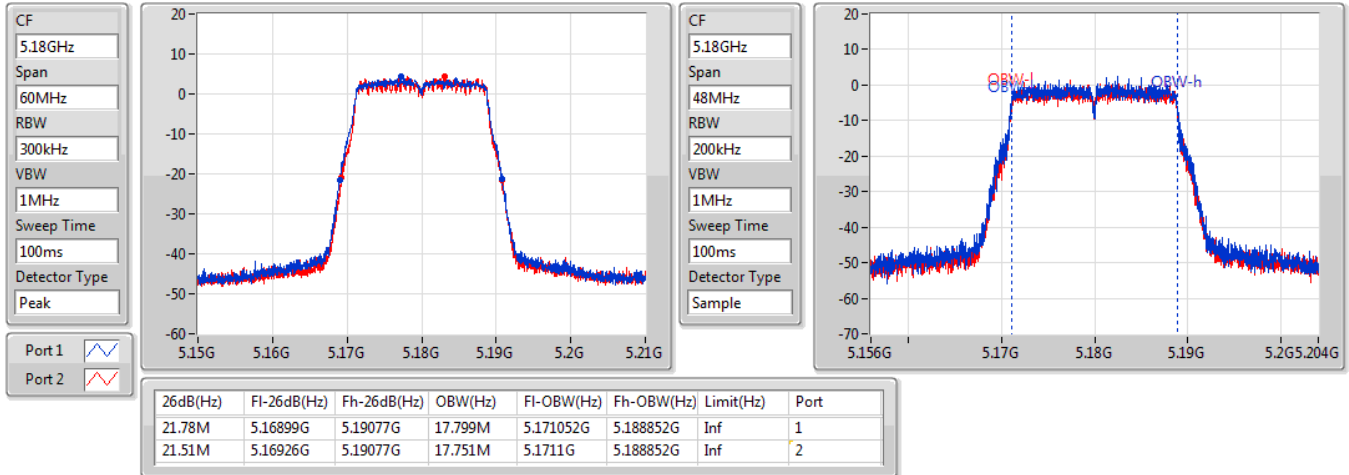

**802.11a\_Nss1,(6Mbps)\_2TX**
**EBW**
**5825MHz**

15/07/2020

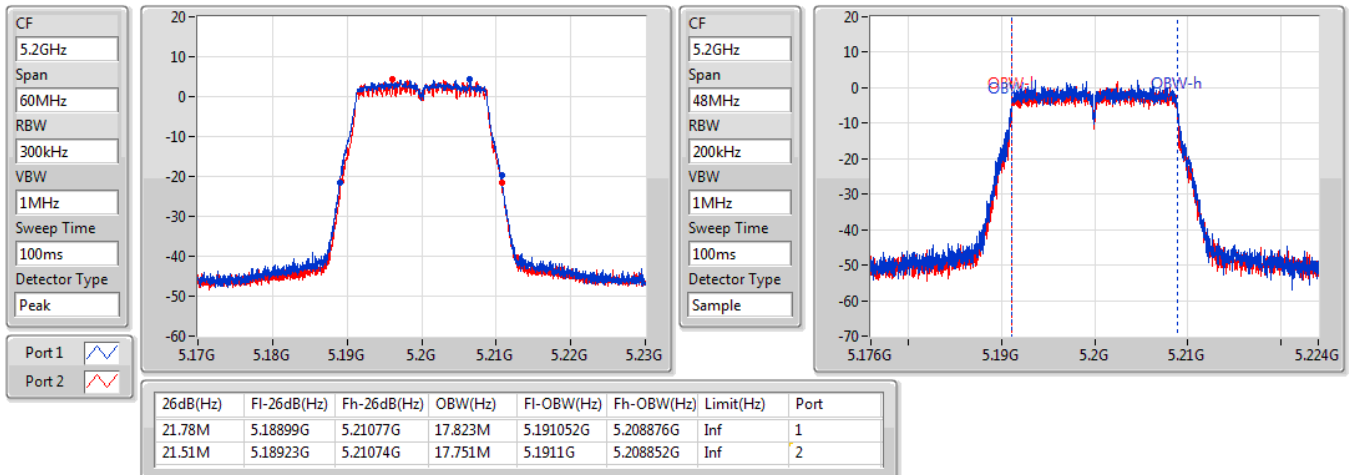


**802.11n HT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5180MHz**

22/07/2020

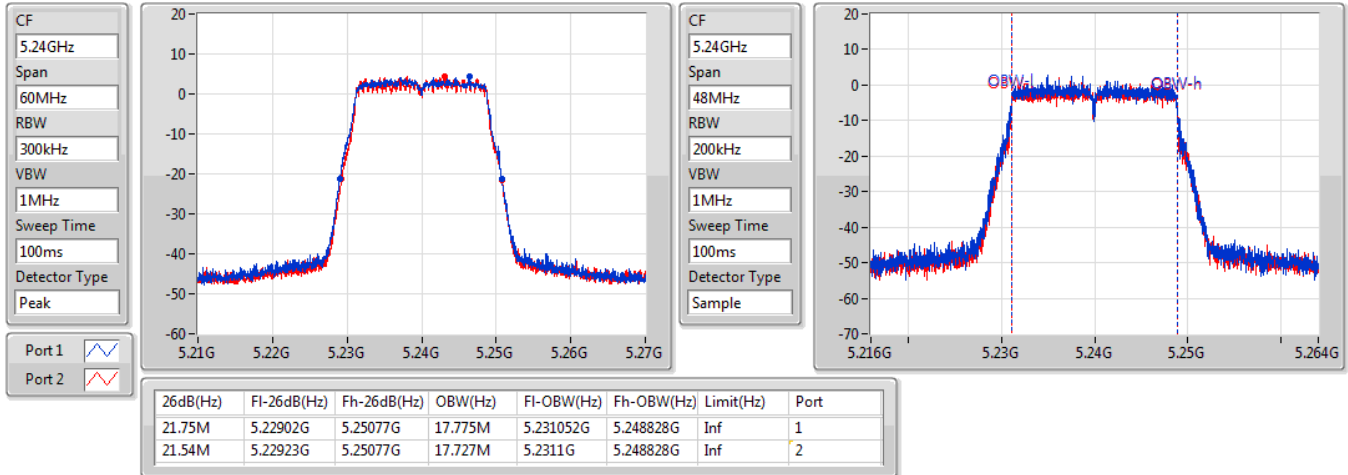

**802.11n HT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5200MHz**

22/07/2020

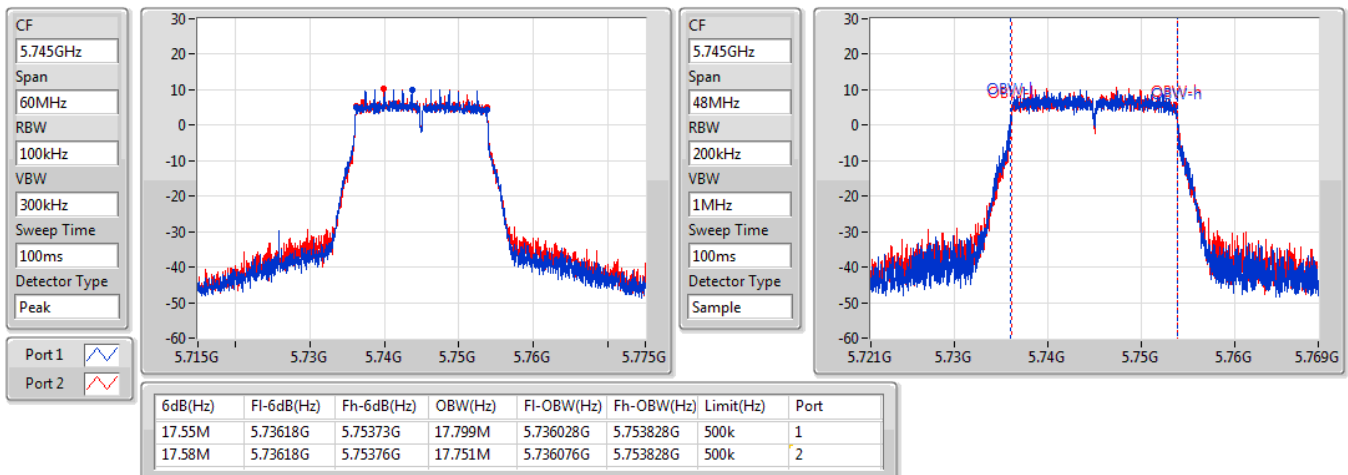


**802.11n HT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5240MHz**

22/07/2020

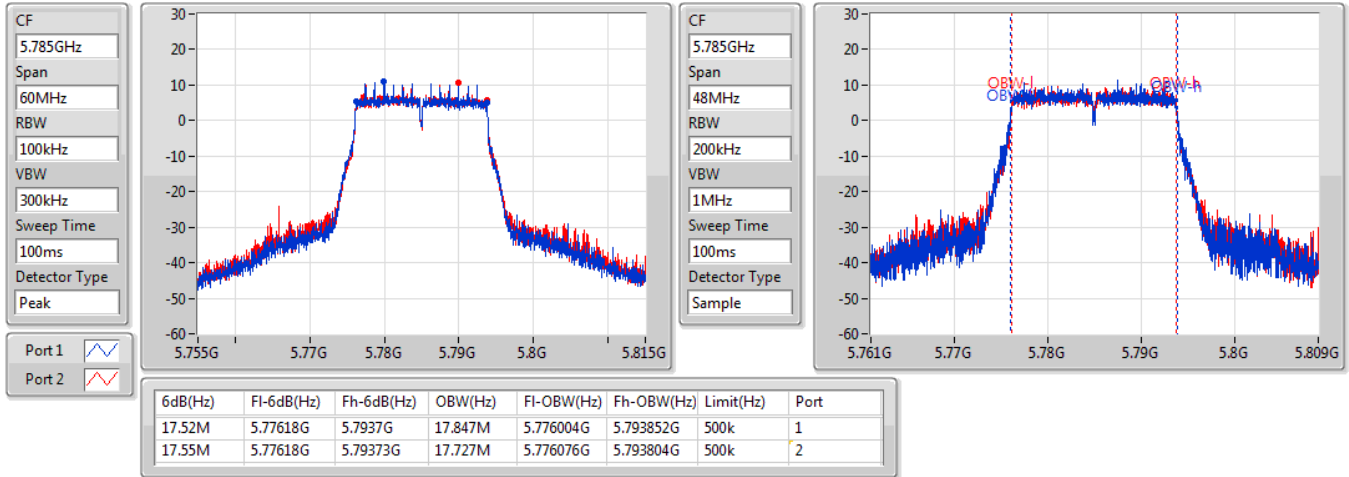

**802.11n HT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5745MHz**

22/07/2020

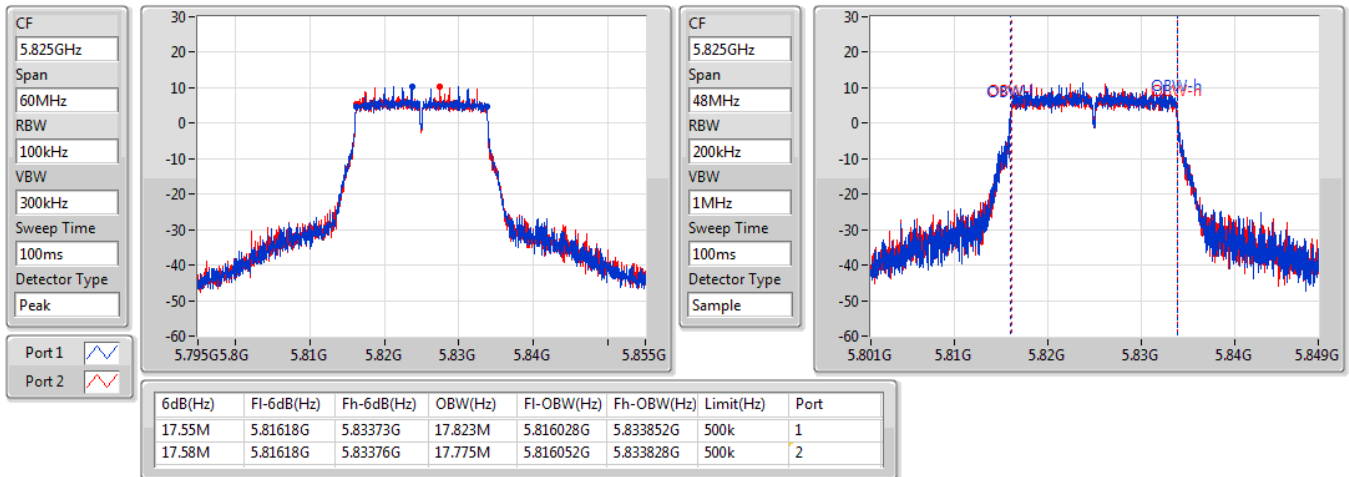


**802.11n HT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5785MHz**

22/07/2020

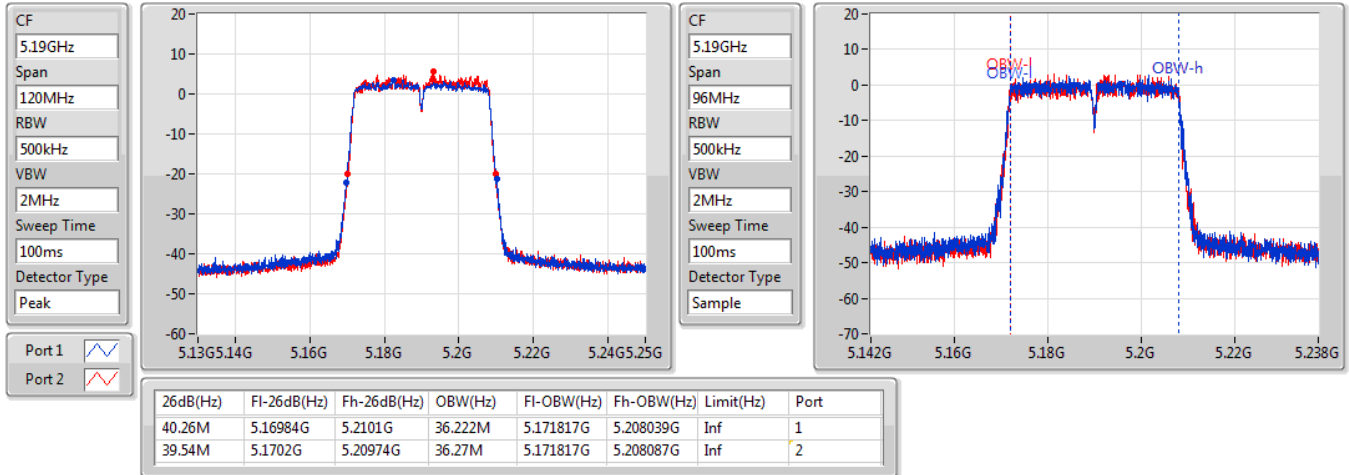

**802.11n HT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5825MHz**

22/07/2020

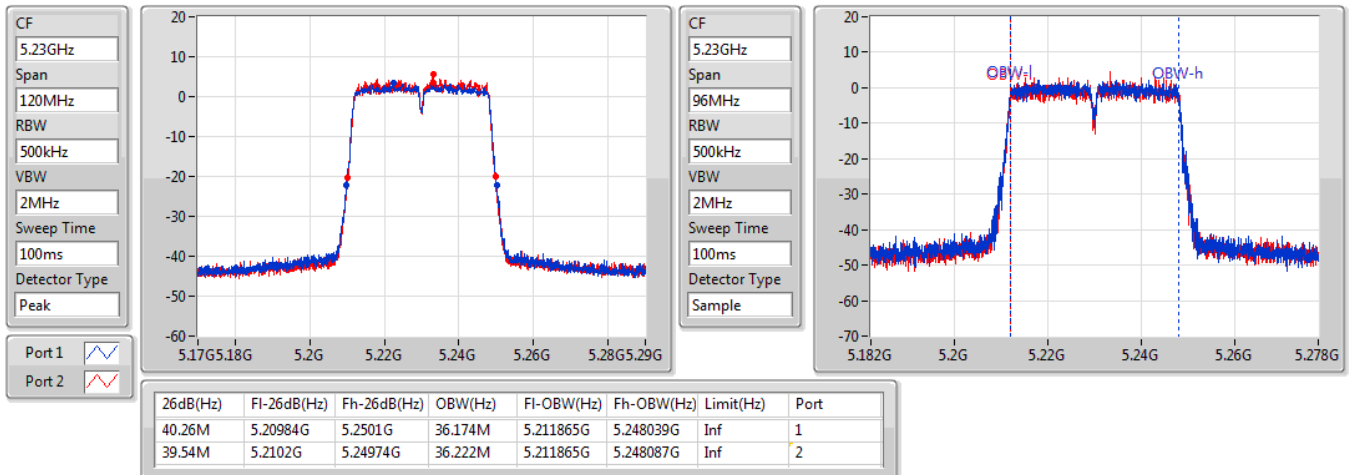


**802.11n HT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5190MHz**

22/07/2020


**802.11n HT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5230MHz**

22/07/2020

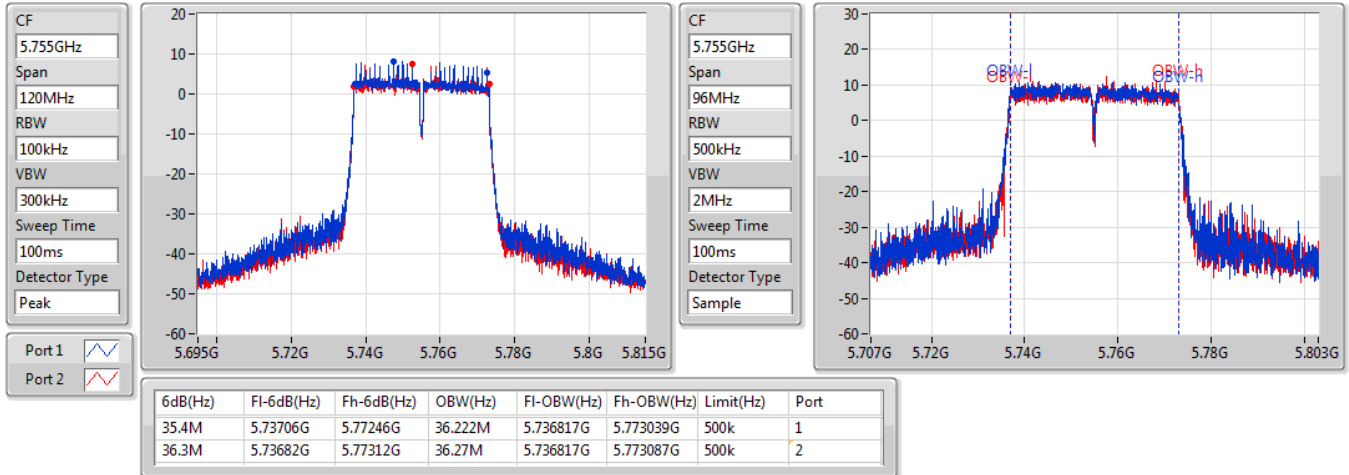


## 802.11n HT40\_Nss1,(MCS0)\_2TX

EBW

5755MHz

22/07/2020

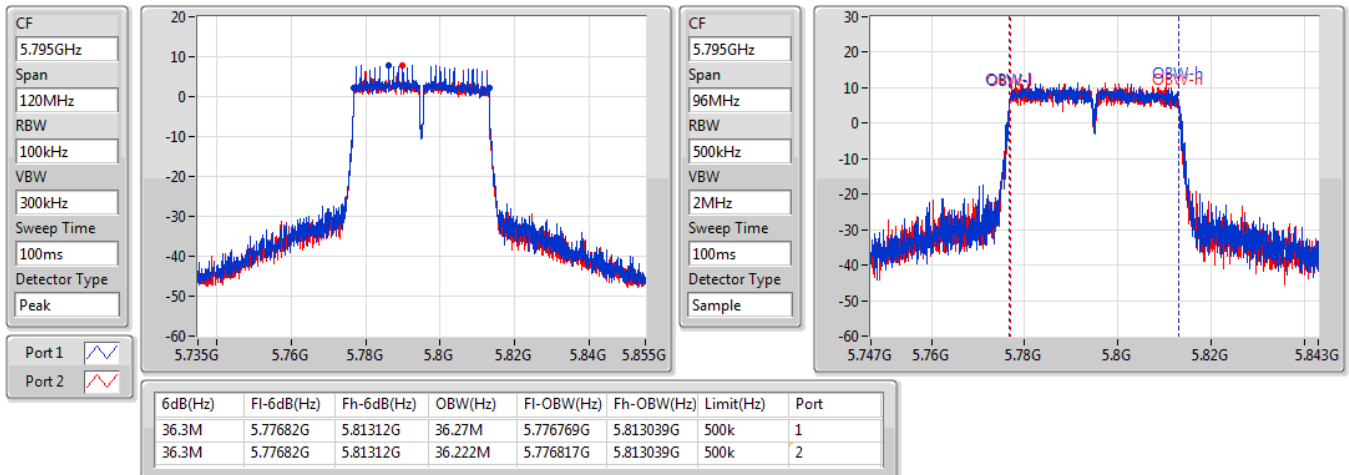


## 802.11n HT40\_Nss1,(MCS0)\_2TX

EBW

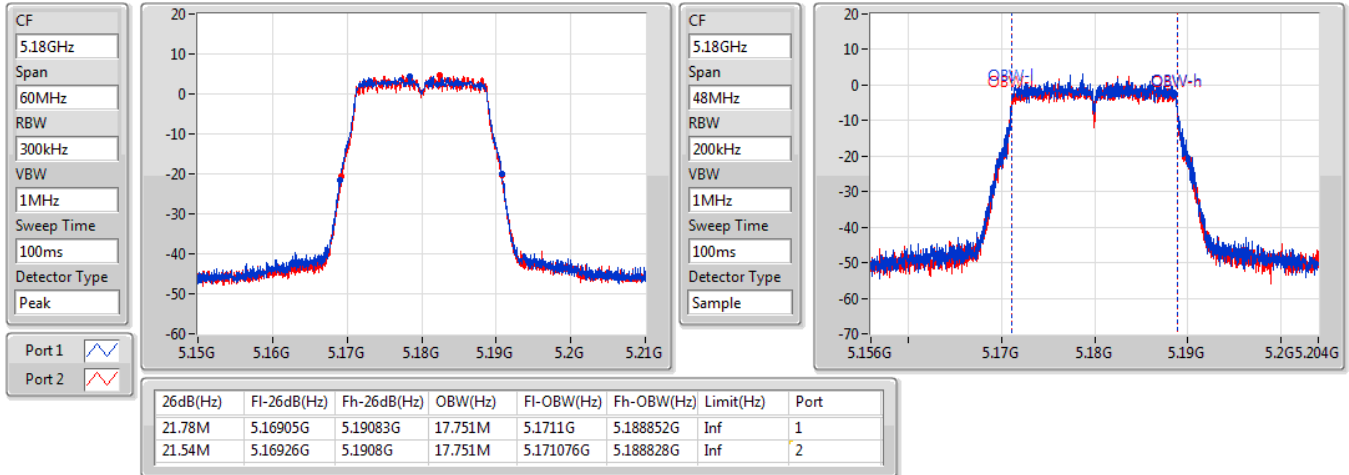
5795MHz

22/07/2020

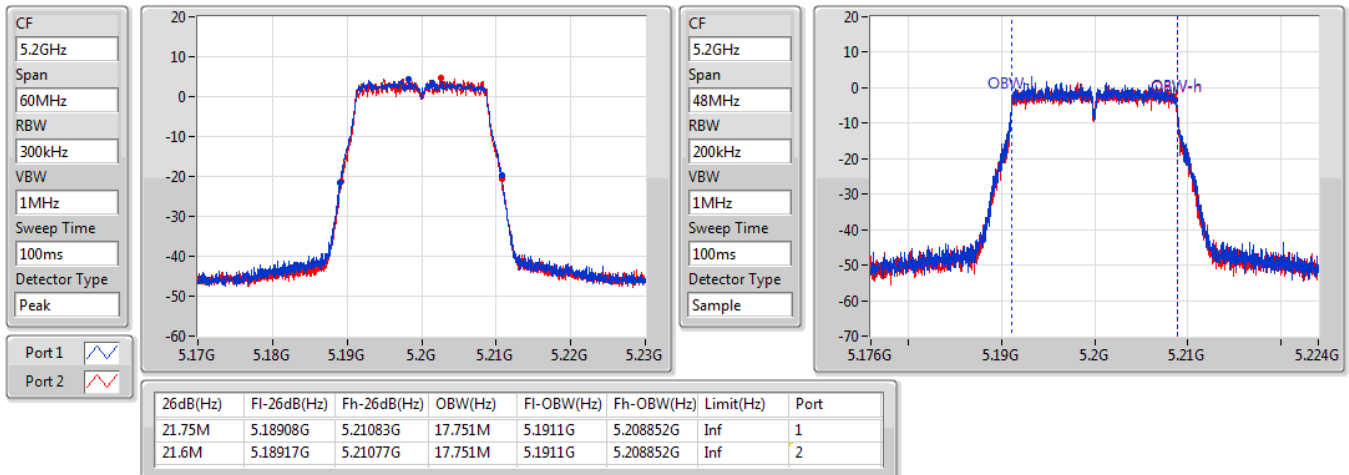


**802.11ac VHT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5180MHz**

16/07/2020

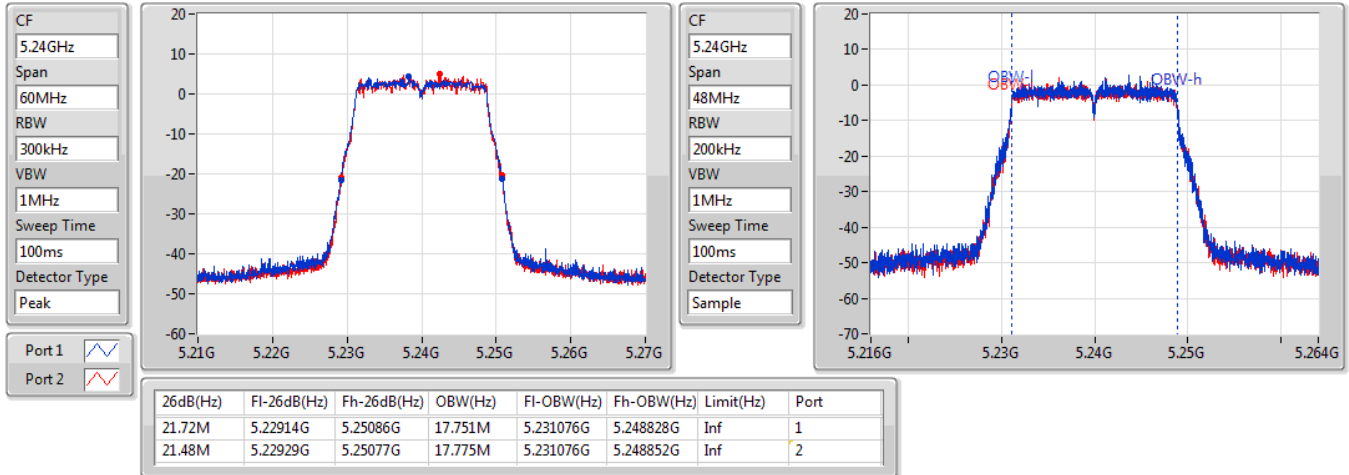

**802.11ac VHT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5200MHz**

16/07/2020

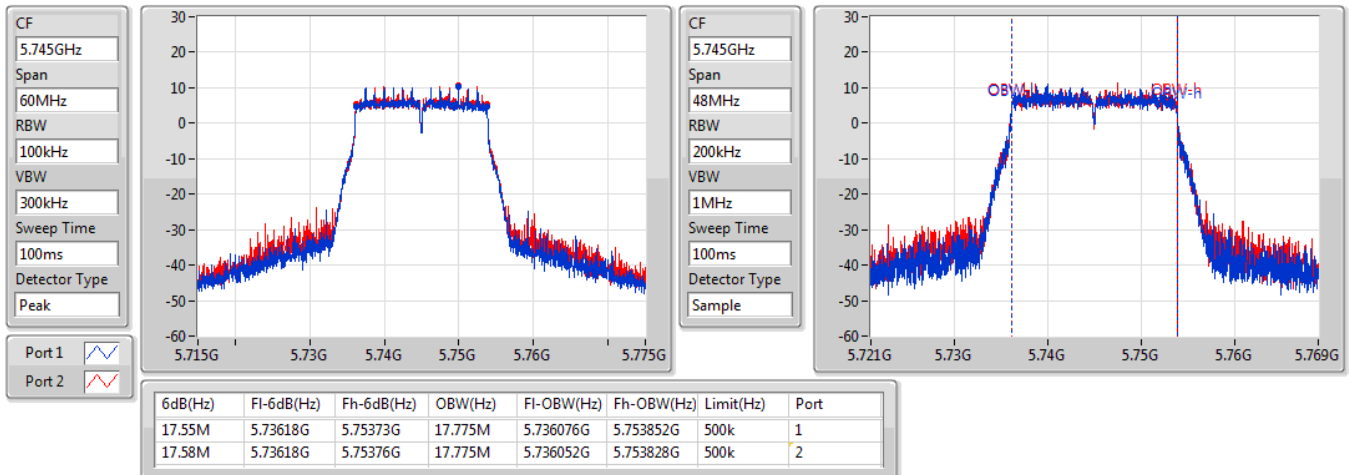


**802.11ac VHT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5240MHz**

16/07/2020


**802.11ac VHT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5745MHz**

16/07/2020

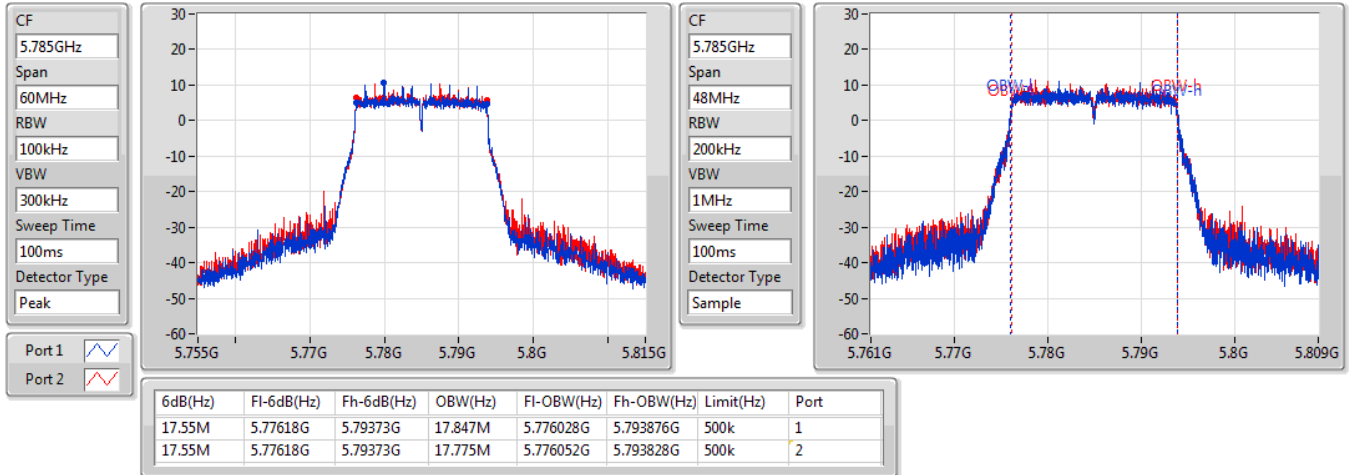


## 802.11ac VHT20\_Nss1,(MCS0)\_2TX

EBW

5785MHz

16/07/2020

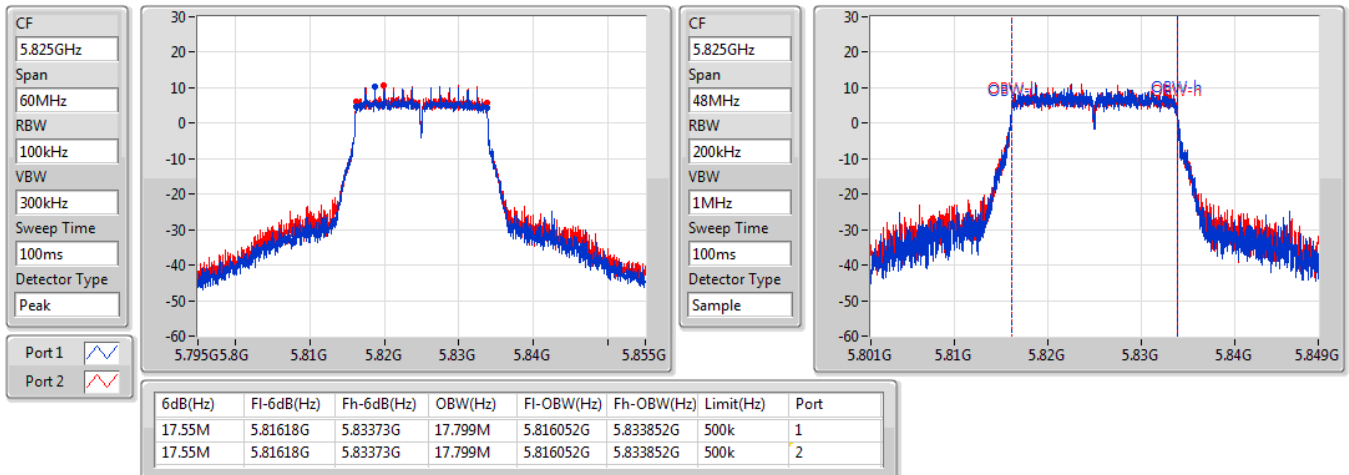


## 802.11ac VHT20\_Nss1,(MCS0)\_2TX

EBW

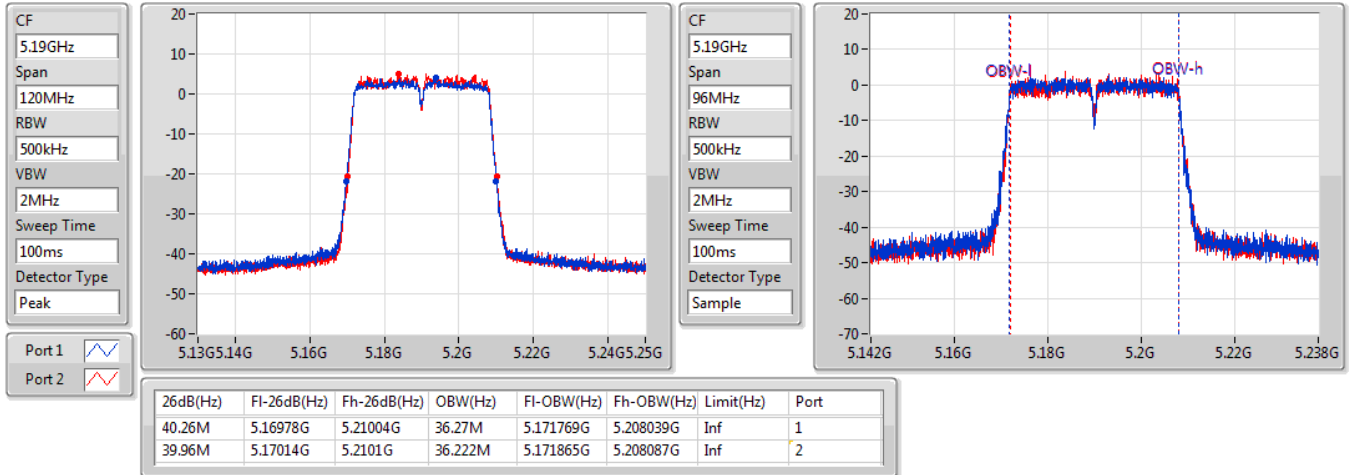
5825MHz

16/07/2020

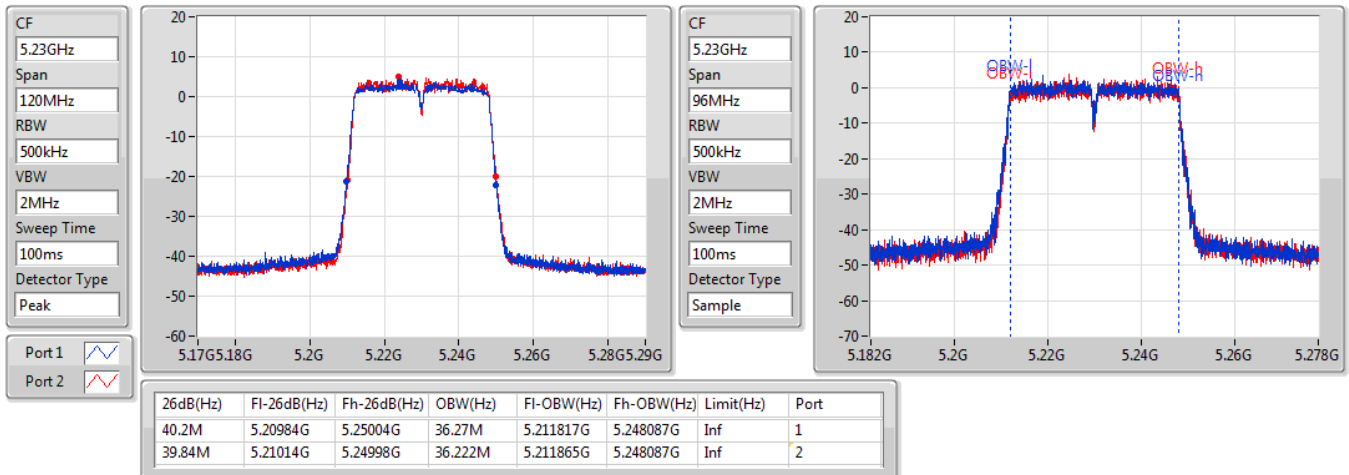


**802.11ac VHT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5190MHz**

16/07/2020

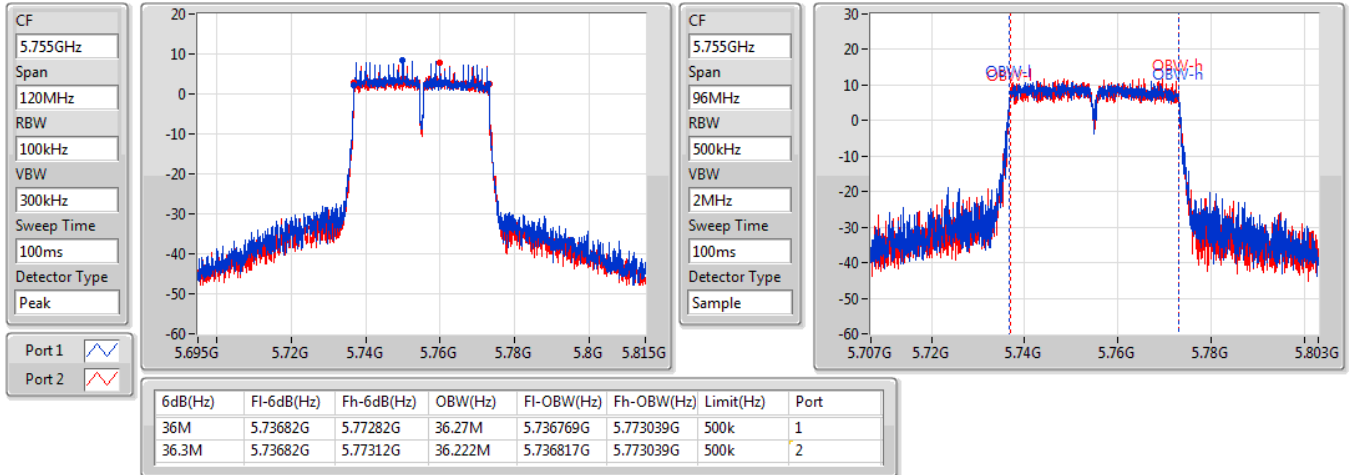

**802.11ac VHT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5230MHz**

16/07/2020

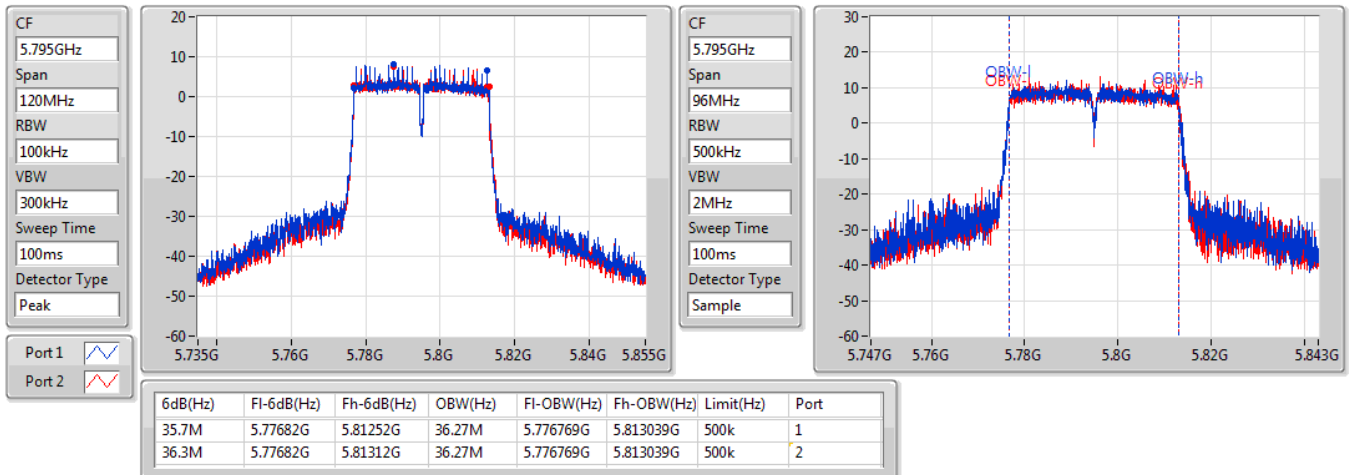


**802.11ac VHT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5755MHz**

16/07/2020

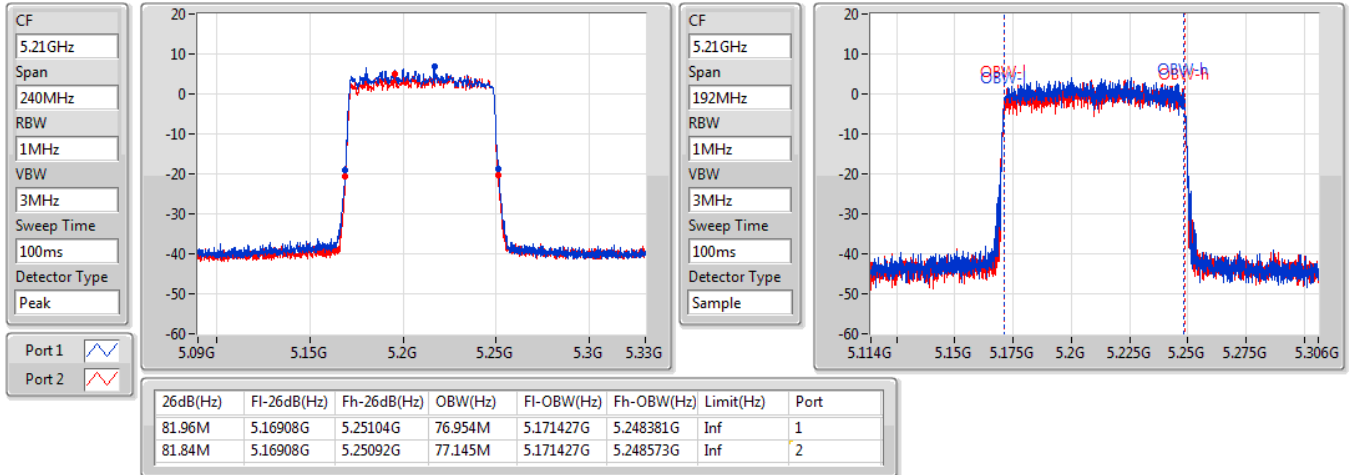

**802.11ac VHT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5795MHz**

16/07/2020

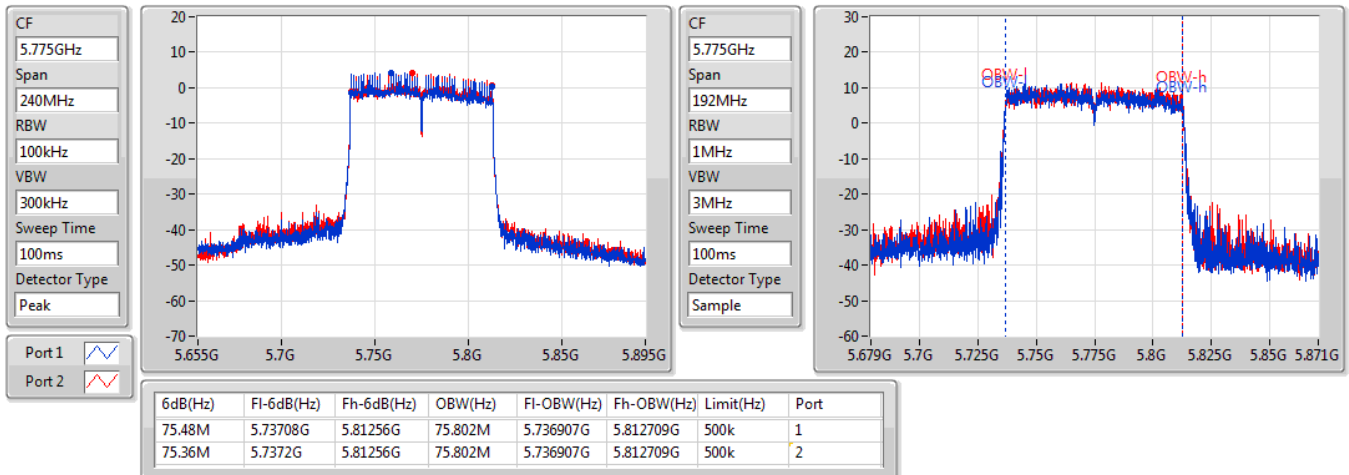


**802.11ac VHT80\_Nss1,(MCS0)\_2TX**
**EBW**
**5210MHz**

16/07/2020

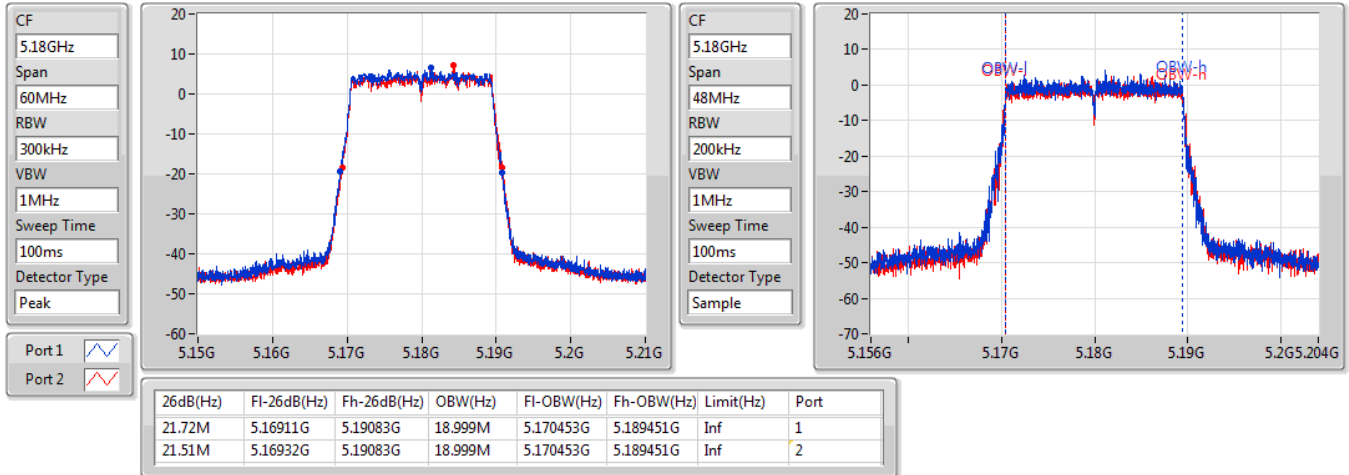

**802.11ac VHT80\_Nss1,(MCS0)\_2TX**
**EBW**
**5775MHz**

16/07/2020

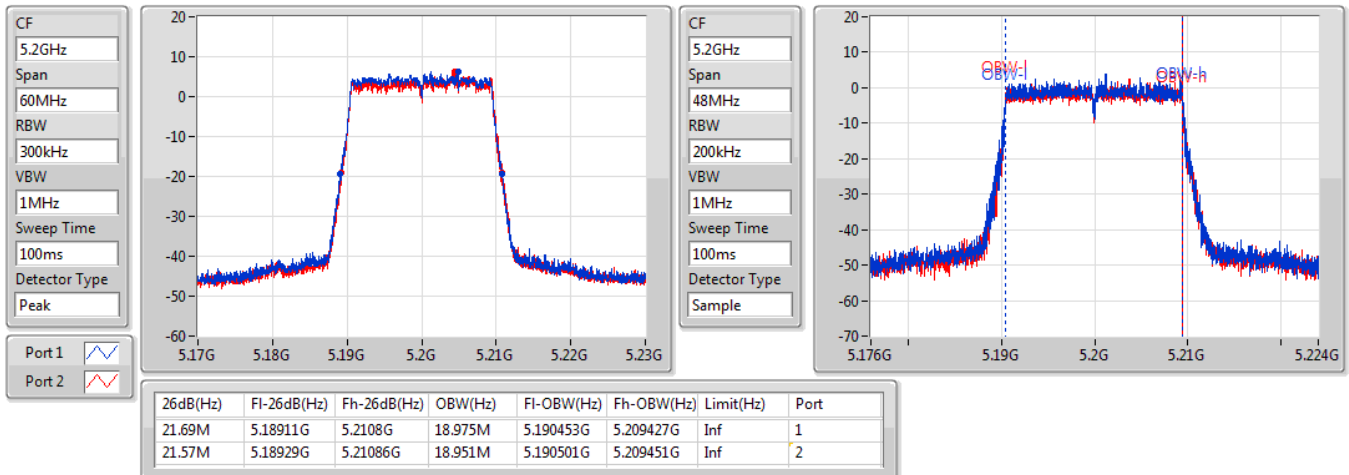


**802.11ax HEW20\_Nss1,(MCS0)\_2TX**
**EBW**
**5180MHz**

16/07/2020

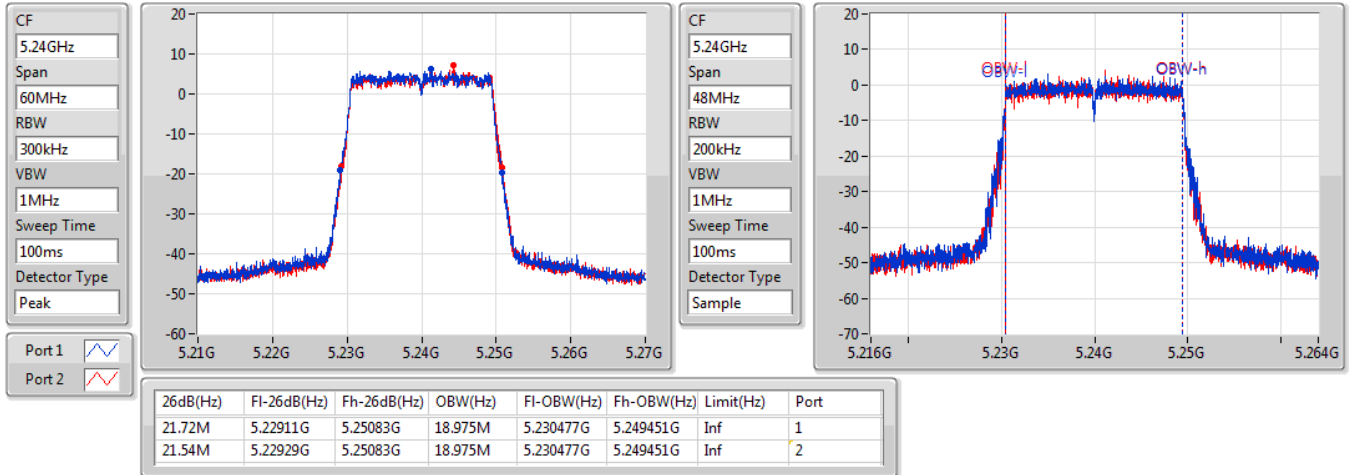

**802.11ax HEW20\_Nss1,(MCS0)\_2TX**
**EBW**
**5200MHz**

16/07/2020

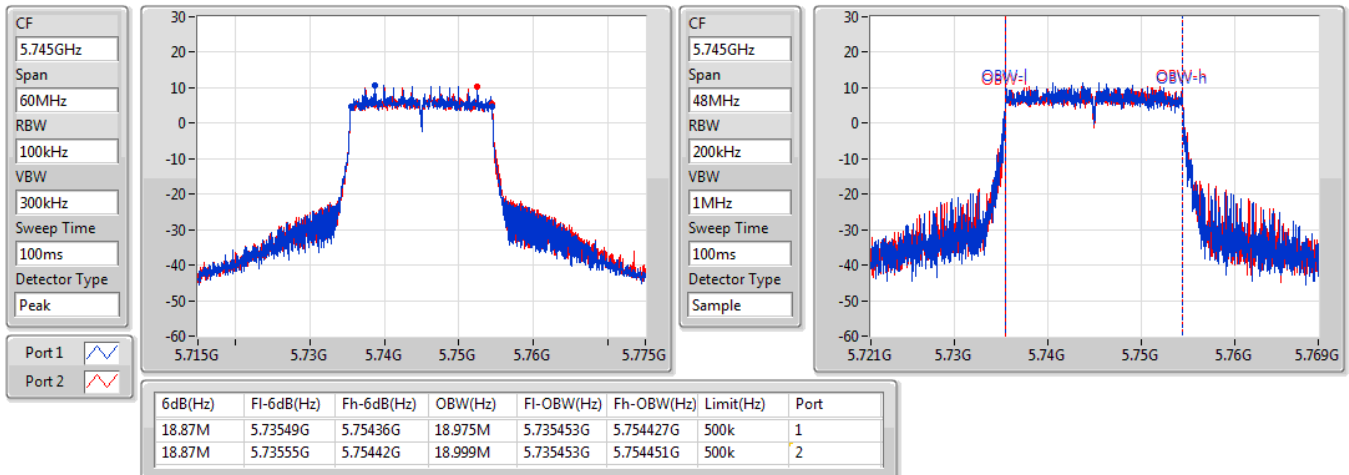


**802.11ax HEW20\_Nss1,(MCS0)\_2TX**
**EBW**
**5240MHz**

16/07/2020

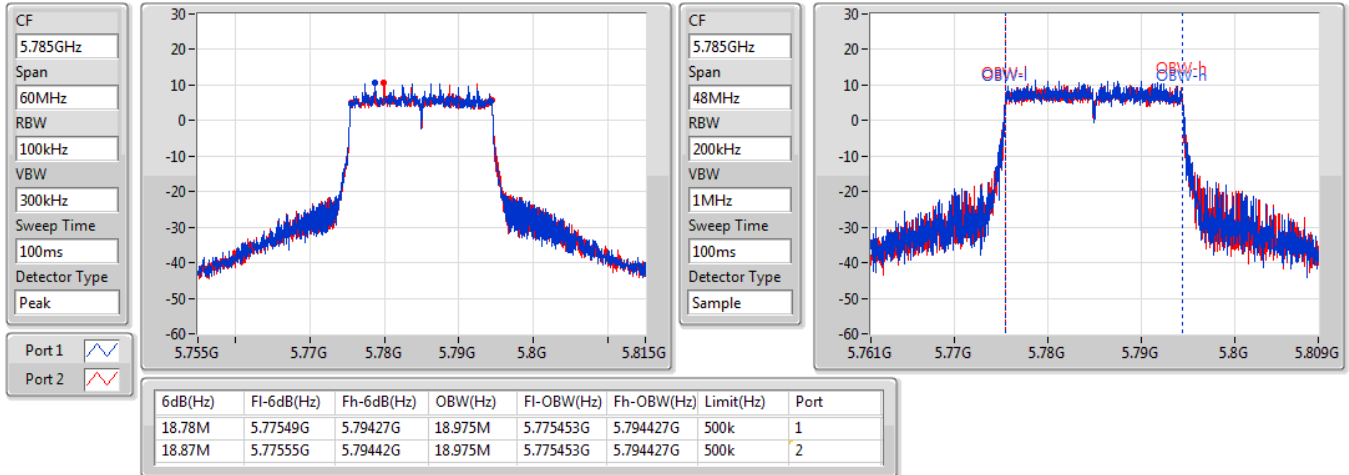

**802.11ax HEW20\_Nss1,(MCS0)\_2TX**
**EBW**
**5745MHz**

16/07/2020

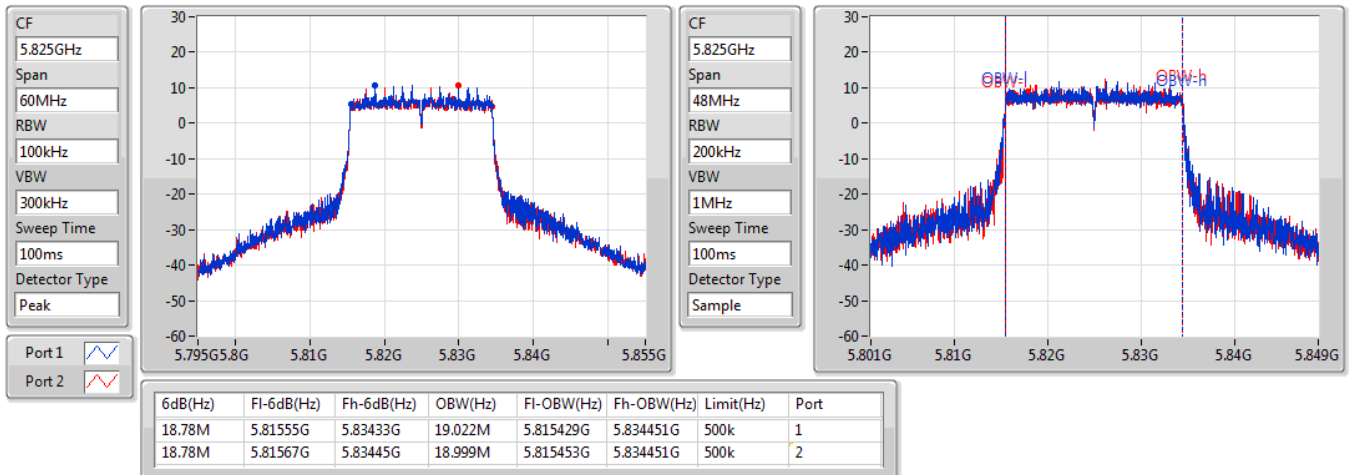


**802.11ax HEW20\_Nss1,(MCS0)\_2TX**
**EBW**
**5785MHz**

16/07/2020

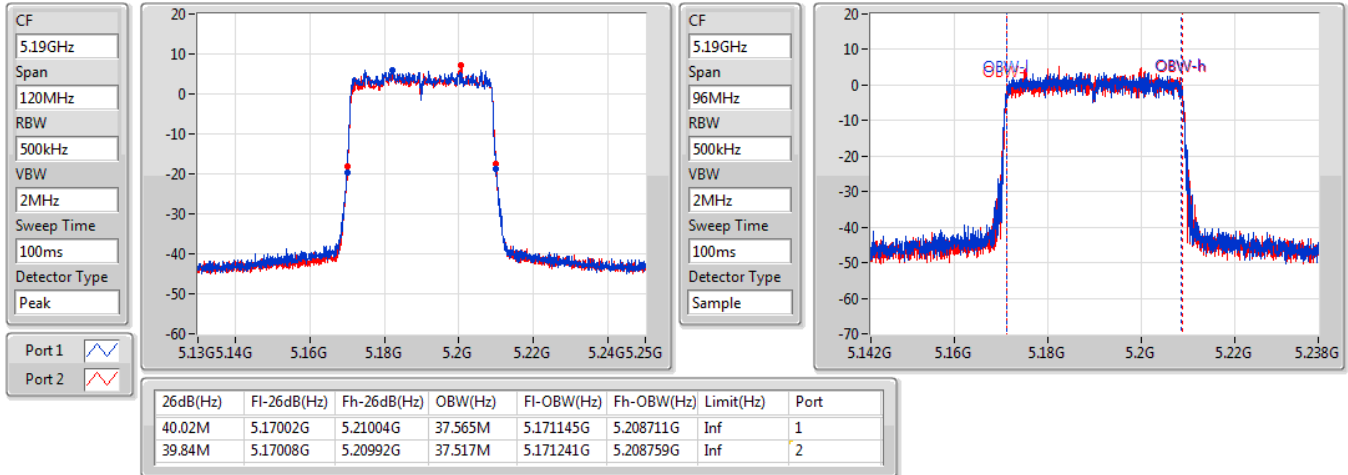

**802.11ax HEW20\_Nss1,(MCS0)\_2TX**
**EBW**
**5825MHz**

16/07/2020

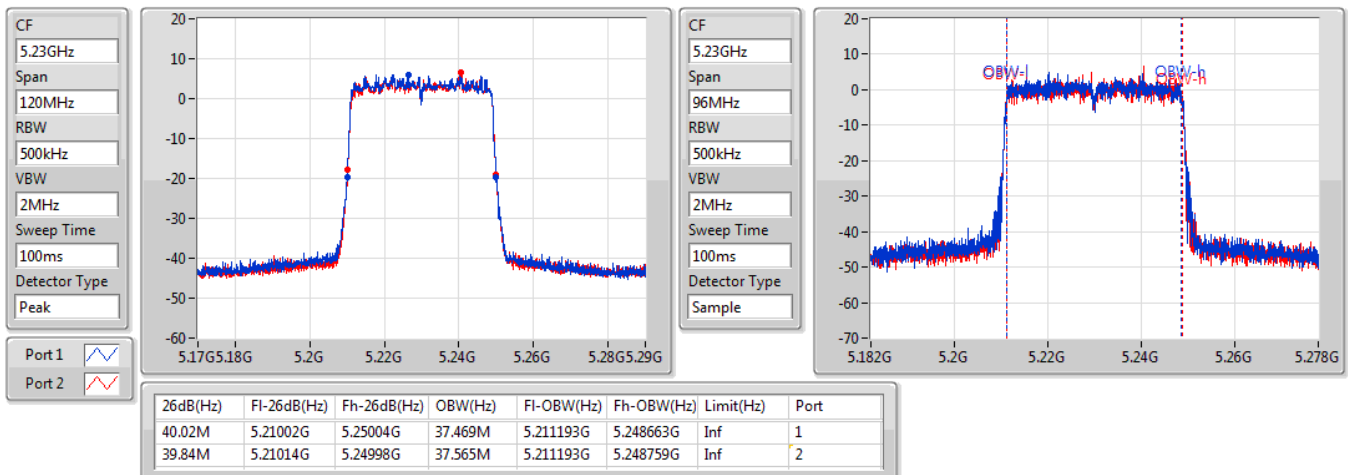


**802.11ax HEW40\_Nss1,(MCS0)\_2TX**
**EBW**
**5190MHz**

16/07/2020


**802.11ax HEW40\_Nss1,(MCS0)\_2TX**
**EBW**
**5230MHz**

16/07/2020

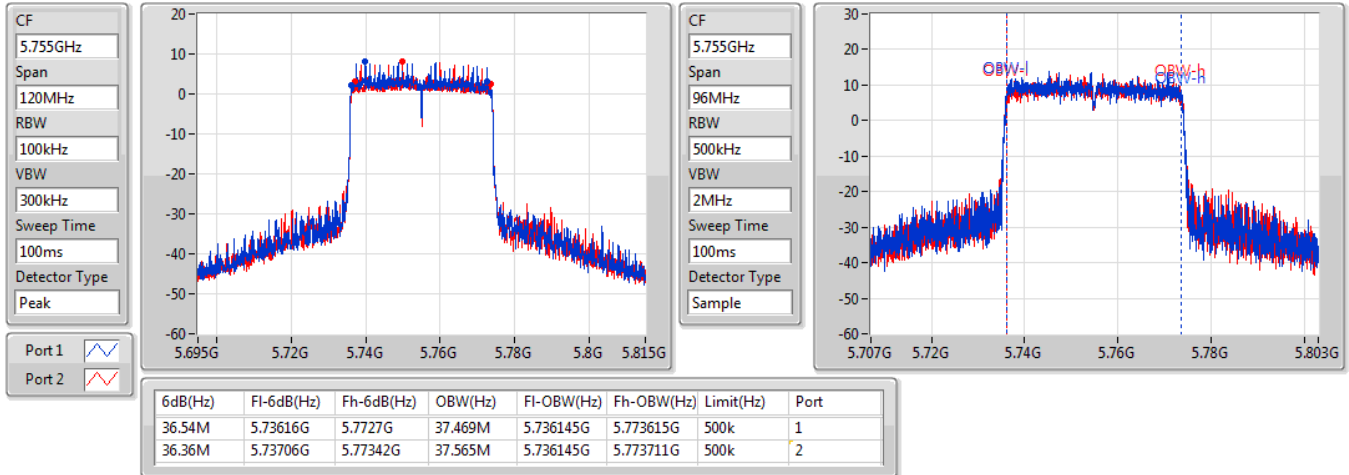


## 802.11ax HEW40\_Nss1,(MCS0)\_2TX

EBW

5755MHz

16/07/2020

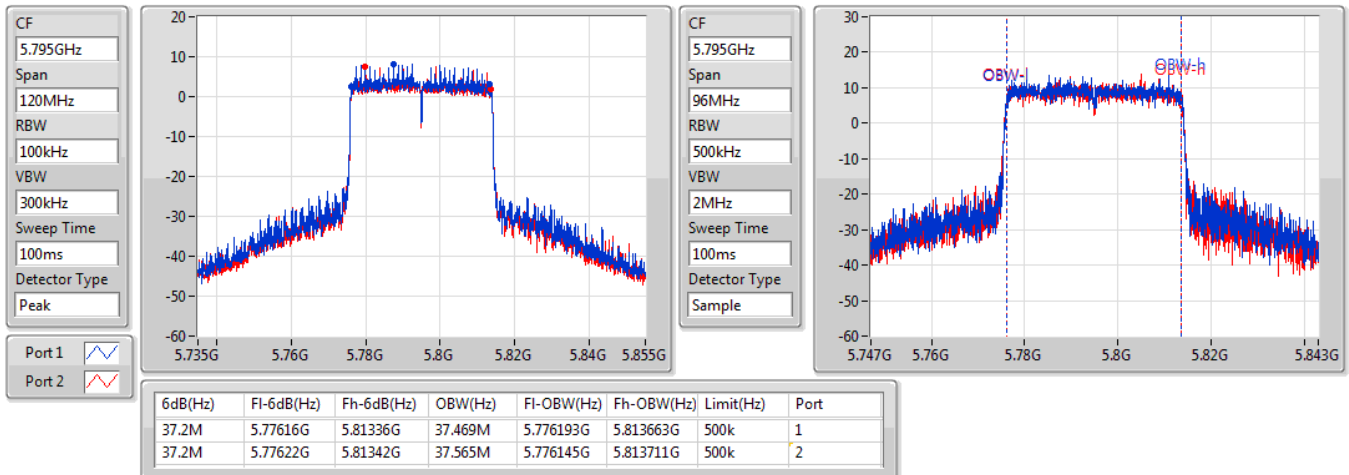


## 802.11ax HEW40\_Nss1,(MCS0)\_2TX

EBW

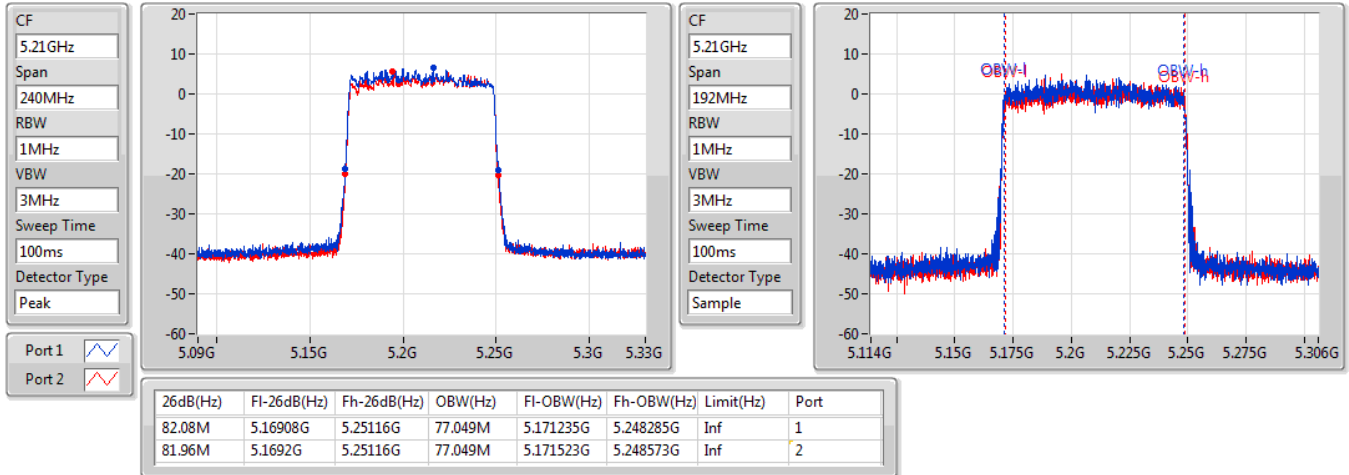
5795MHz

16/07/2020

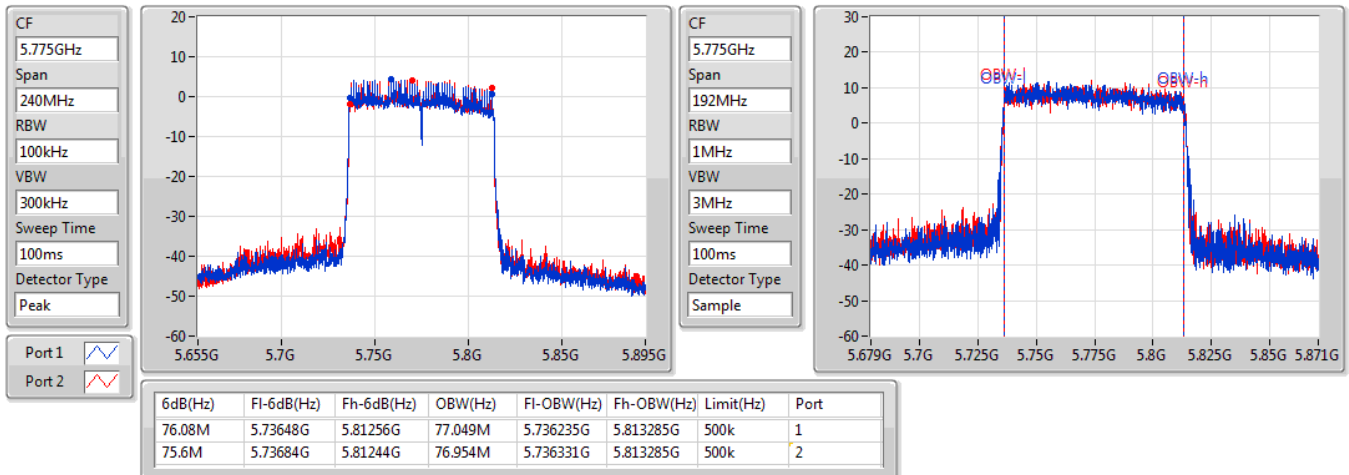


**802.11ax HEW80\_Nss1,(MCS0)\_2TX**
**EBW**
**5210MHz**

16/07/2020


**802.11ax HEW80\_Nss1,(MCS0)\_2TX**
**EBW**
**5775MHz**

16/07/2020



**Summary**

| Mode                           | Total Power<br>(dBm) | Total Power<br>(W) | EIRP<br>(dBm) | EIRP<br>(W) |
|--------------------------------|----------------------|--------------------|---------------|-------------|
| 5.15-5.25GHz                   | -                    | -                  | -             | -           |
| 802.11a_Nss1,(6Mbps)_2TX       | 25.70                | 0.37154            | 28.13         | 0.65013     |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 24.95                | 0.31261            | 27.39         | 0.54828     |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 24.26                | 0.26669            | 27.01         | 0.50234     |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 25.48                | 0.35318            | 27.93         | 0.62087     |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 24.82                | 0.30339            | 27.61         | 0.57677     |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 21.95                | 0.15668            | 24.46         | 0.27925     |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 25.72                | 0.37325            | 28.17         | 0.65615     |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 25.06                | 0.32063            | 27.80         | 0.60256     |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 22.30                | 0.16982            | 24.96         | 0.31333     |
| 5.725-5.85GHz                  | -                    | -                  | -             | -           |
| 802.11a_Nss1,(6Mbps)_2TX       | 25.85                | 0.38459            | 28.37         | 0.68707     |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 25.03                | 0.31842            | 27.63         | 0.57943     |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 24.86                | 0.30620            | 27.50         | 0.56234     |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 25.55                | 0.35892            | 28.02         | 0.63387     |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 25.48                | 0.35318            | 28.01         | 0.63241     |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 23.69                | 0.23388            | 26.52         | 0.44875     |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 25.81                | 0.38107            | 28.39         | 0.69024     |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 25.74                | 0.37497            | 28.34         | 0.68234     |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 23.91                | 0.24604            | 26.67         | 0.46452     |



## Average Power\_indoor Sample 1

## Appendix C.1

### Result

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Total Power<br>(dBm) | Power Limit<br>(dBm) | EIRP<br>(dBm) | EIRP Limit<br>(dBm) |
|--------------------------------|--------|-------------|-----------------|-----------------|----------------------|----------------------|---------------|---------------------|
| 802.11a_Nss1,(6Mbps)_2TX       | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5180MHz                        | Pass   | 5.40        | 21.52           | 21.02           | 24.29                | 30.00                | 26.92         | 36.00               |
| 5200MHz                        | Pass   | 5.40        | 22.38           | 21.93           | 25.17                | 30.00                | 27.78         | 36.00               |
| 5240MHz                        | Pass   | 5.40        | 22.73           | 22.64           | 25.70                | 30.00                | 28.13         | 36.00               |
| 5745MHz                        | Pass   | 5.40        | 22.71           | 22.97           | 25.85                | 30.00                | 28.37         | 36.00               |
| 5785MHz                        | Pass   | 5.40        | 22.56           | 22.80           | 25.69                | 30.00                | 28.20         | 36.00               |
| 5825MHz                        | Pass   | 5.40        | 22.31           | 22.81           | 25.58                | 30.00                | 28.21         | 36.00               |
| 802.11n HT20_Nss1,(MCS0)_2TX   | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5180MHz                        | Pass   | 5.40        | 19.82           | 19.49           | 22.67                | 30.00                | 25.22         | 36.00               |
| 5200MHz                        | Pass   | 5.40        | 21.98           | 21.52           | 24.77                | 30.00                | 27.38         | 36.00               |
| 5240MHz                        | Pass   | 5.40        | 21.99           | 21.88           | 24.95                | 30.00                | 27.39         | 36.00               |
| 5745MHz                        | Pass   | 5.40        | 22.09           | 21.88           | 25.00                | 30.00                | 27.49         | 36.00               |
| 5785MHz                        | Pass   | 5.40        | 22.03           | 21.70           | 24.88                | 30.00                | 27.43         | 36.00               |
| 5825MHz                        | Pass   | 5.40        | 22.23           | 21.80           | 25.03                | 30.00                | 27.63         | 36.00               |
| 802.11n HT40_Nss1,(MCS0)_2TX   | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5190MHz                        | Pass   | 5.40        | 18.71           | 17.90           | 21.33                | 30.00                | 24.11         | 36.00               |
| 5230MHz                        | Pass   | 5.40        | 21.61           | 20.85           | 24.26                | 30.00                | 27.01         | 36.00               |
| 5755MHz                        | Pass   | 5.40        | 22.10           | 21.58           | 24.86                | 30.00                | 27.50         | 36.00               |
| 5795MHz                        | Pass   | 5.40        | 22.02           | 21.47           | 24.76                | 30.00                | 27.42         | 36.00               |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5180MHz                        | Pass   | 5.40        | 20.25           | 19.10           | 22.72                | 30.00                | 25.65         | 36.00               |
| 5200MHz                        | Pass   | 5.40        | 22.46           | 22.06           | 25.27                | 30.00                | 27.86         | 36.00               |
| 5240MHz                        | Pass   | 5.40        | 22.53           | 22.40           | 25.48                | 30.00                | 27.93         | 36.00               |
| 5745MHz                        | Pass   | 5.40        | 22.62           | 22.46           | 25.55                | 30.00                | 28.02         | 36.00               |
| 5785MHz                        | Pass   | 5.40        | 22.54           | 22.32           | 25.44                | 30.00                | 27.94         | 36.00               |
| 5825MHz                        | Pass   | 5.40        | 22.56           | 22.24           | 25.41                | 30.00                | 27.96         | 36.00               |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5190MHz                        | Pass   | 5.40        | 19.27           | 18.46           | 21.89                | 30.00                | 24.67         | 36.00               |
| 5230MHz                        | Pass   | 5.40        | 22.21           | 21.37           | 24.82                | 30.00                | 27.61         | 36.00               |
| 5755MHz                        | Pass   | 5.40        | 22.61           | 22.32           | 25.48                | 30.00                | 28.01         | 36.00               |
| 5795MHz                        | Pass   | 5.40        | 22.42           | 21.94           | 25.20                | 30.00                | 27.82         | 36.00               |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5210MHz                        | Pass   | 5.40        | 19.06           | 18.82           | 21.95                | 30.00                | 24.46         | 36.00               |
| 5775MHz                        | Pass   | 5.40        | 21.12           | 20.20           | 23.69                | 30.00                | 26.52         | 36.00               |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5180MHz                        | Pass   | 5.40        | 20.32           | 19.75           | 23.05                | 30.00                | 25.72         | 36.00               |
| 5200MHz                        | Pass   | 5.40        | 22.40           | 22.69           | 25.56                | 30.00                | 28.09         | 36.00               |
| 5240MHz                        | Pass   | 5.40        | 22.64           | 22.77           | 25.72                | 30.00                | 28.17         | 36.00               |
| 5745MHz                        | Pass   | 5.40        | 22.74           | 22.84           | 25.80                | 30.00                | 28.24         | 36.00               |
| 5785MHz                        | Pass   | 5.40        | 22.70           | 22.89           | 25.81                | 30.00                | 28.29         | 36.00               |
| 5825MHz                        | Pass   | 5.40        | 22.57           | 22.99           | 25.80                | 30.00                | 28.39         | 36.00               |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5190MHz                        | Pass   | 5.40        | 19.53           | 18.69           | 22.14                | 30.00                | 24.93         | 36.00               |
| 5230MHz                        | Pass   | 5.40        | 22.40           | 21.67           | 25.06                | 30.00                | 27.80         | 36.00               |



## Average Power\_indoor Sample 1

## Appendix C.1

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Total Power<br>(dBm) | Power Limit<br>(dBm) | EIRP<br>(dBm) | EIRP Limit<br>(dBm) |
|--------------------------------|--------|-------------|-----------------|-----------------|----------------------|----------------------|---------------|---------------------|
| 5755MHz                        | Pass   | 5.40        | 22.94           | 22.51           | 25.74                | 30.00                | 28.34         | 36.00               |
| 5795MHz                        | Pass   | 5.40        | 22.81           | 22.31           | 25.58                | 30.00                | 28.21         | 36.00               |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5210MHz                        | Pass   | 5.40        | 19.56           | 19.00           | 22.30                | 30.00                | 24.96         | 36.00               |
| 5775MHz                        | Pass   | 5.40        | 21.27           | 20.49           | 23.91                | 30.00                | 26.67         | 36.00               |

**DG** = Directional Gain; **Port X** = Port X output power

## Summary

| Mode                           | Total Power<br>(dBm) | Total Power<br>(W) | EIRP<br>(dBm) | EIRP<br>(W) |
|--------------------------------|----------------------|--------------------|---------------|-------------|
| 5.15-5.25GHz                   | -                    | -                  | -             | -           |
| 802.11a_Nss1,(6Mbps)_2TX       | 24.69                | 0.29444            | 29.09         | 0.81096     |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 24.40                | 0.27542            | 28.74         | 0.74817     |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 24.32                | 0.27040            | 28.54         | 0.71450     |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 24.60                | 0.28840            | 28.87         | 0.77090     |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 24.38                | 0.27416            | 28.83         | 0.76384     |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 19.70                | 0.09333            | 23.88         | 0.24434     |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 24.82                | 0.30339            | 29.09         | 0.81096     |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 24.66                | 0.29242            | 28.96         | 0.78705     |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 19.91                | 0.09795            | 24.08         | 0.25586     |
| 5.725-5.85GHz                  | -                    | -                  | -             | -           |
| 802.11a_Nss1,(6Mbps)_2TX       | 24.89                | 0.30832            | 29.09         | 0.81096     |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 24.51                | 0.28249            | 28.65         | 0.73282     |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 24.50                | 0.28184            | 28.78         | 0.75509     |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 24.62                | 0.28973            | 28.84         | 0.76560     |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 24.56                | 0.28576            | 28.90         | 0.77625     |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 23.60                | 0.22909            | 27.75         | 0.59566     |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 24.87                | 0.30690            | 29.00         | 0.79433     |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 24.78                | 0.30061            | 29.08         | 0.80910     |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 23.93                | 0.24717            | 28.07         | 0.64121     |



Result

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Total Power<br>(dBm) | Power Limit<br>(dBm) | EIRP<br>(dBm) | EIRP Limit<br>(dBm) |
|--------------------------------|--------|-------------|-----------------|-----------------|----------------------|----------------------|---------------|---------------------|
| 802.11a_Nss1,(6Mbps)_2TX       | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5180MHz                        | Pass   | 7.10        | 20.80           | 21.08           | 23.95                | 28.90                | 28.18         | 36.00               |
| 5200MHz                        | Pass   | 7.10        | 21.34           | 21.99           | 24.69                | 28.90                | 29.09         | 36.00               |
| 5240MHz                        | Pass   | 7.10        | 21.47           | 21.77           | 24.63                | 28.90                | 28.87         | 36.00               |
| 5745MHz                        | Pass   | 7.10        | 21.85           | 21.91           | 24.89                | 28.90                | 29.01         | 36.00               |
| 5785MHz                        | Pass   | 7.10        | 21.66           | 21.99           | 24.84                | 28.90                | 29.09         | 36.00               |
| 5825MHz                        | Pass   | 7.10        | 21.75           | 21.91           | 24.84                | 28.90                | 29.01         | 36.00               |
| 802.11n HT20_Nss1,(MCS0)_2TX   | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5180MHz                        | Pass   | 7.10        | 19.04           | 18.95           | 22.01                | 28.90                | 26.14         | 36.00               |
| 5200MHz                        | Pass   | 7.10        | 21.28           | 21.46           | 24.38                | 28.90                | 28.56         | 36.00               |
| 5240MHz                        | Pass   | 7.10        | 21.13           | 21.64           | 24.40                | 28.90                | 28.74         | 36.00               |
| 5745MHz                        | Pass   | 7.10        | 21.22           | 21.23           | 24.24                | 28.90                | 28.33         | 36.00               |
| 5785MHz                        | Pass   | 7.10        | 21.55           | 21.44           | 24.51                | 28.90                | 28.65         | 36.00               |
| 5825MHz                        | Pass   | 7.10        | 21.37           | 21.24           | 24.32                | 28.90                | 28.47         | 36.00               |
| 802.11n HT40_Nss1,(MCS0)_2TX   | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5190MHz                        | Pass   | 7.10        | 17.36           | 17.07           | 20.23                | 28.90                | 24.46         | 36.00               |
| 5230MHz                        | Pass   | 7.10        | 21.17           | 21.44           | 24.32                | 28.90                | 28.54         | 36.00               |
| 5755MHz                        | Pass   | 7.10        | 21.54           | 21.14           | 24.35                | 28.90                | 28.64         | 36.00               |
| 5795MHz                        | Pass   | 7.10        | 21.68           | 21.29           | 24.50                | 28.90                | 28.78         | 36.00               |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5180MHz                        | Pass   | 7.10        | 19.22           | 19.10           | 22.17                | 28.90                | 26.32         | 36.00               |
| 5200MHz                        | Pass   | 7.10        | 21.42           | 21.75           | 24.60                | 28.90                | 28.85         | 36.00               |
| 5240MHz                        | Pass   | 7.10        | 21.17           | 21.77           | 24.49                | 28.90                | 28.87         | 36.00               |
| 5745MHz                        | Pass   | 7.10        | 21.31           | 21.56           | 24.45                | 28.90                | 28.66         | 36.00               |
| 5785MHz                        | Pass   | 7.10        | 21.47           | 21.74           | 24.62                | 28.90                | 28.84         | 36.00               |
| 5825MHz                        | Pass   | 7.10        | 21.39           | 21.24           | 24.33                | 28.90                | 28.49         | 36.00               |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5190MHz                        | Pass   | 7.10        | 17.35           | 17.43           | 20.40                | 28.90                | 24.53         | 36.00               |
| 5230MHz                        | Pass   | 7.10        | 20.98           | 21.73           | 24.38                | 28.90                | 28.83         | 36.00               |
| 5755MHz                        | Pass   | 7.10        | 21.71           | 21.36           | 24.55                | 28.90                | 28.81         | 36.00               |
| 5795MHz                        | Pass   | 7.10        | 21.80           | 21.28           | 24.56                | 28.90                | 28.90         | 36.00               |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5210MHz                        | Pass   | 7.10        | 16.78           | 16.59           | 19.70                | 28.90                | 23.88         | 36.00               |
| 5775MHz                        | Pass   | 7.10        | 20.52           | 20.65           | 23.60                | 28.90                | 27.75         | 36.00               |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5180MHz                        | Pass   | 7.10        | 19.32           | 19.31           | 22.33                | 28.90                | 26.42         | 36.00               |
| 5200MHz                        | Pass   | 7.10        | 21.64           | 21.97           | 24.82                | 28.90                | 29.07         | 36.00               |
| 5240MHz                        | Pass   | 7.10        | 21.42           | 21.99           | 24.72                | 28.90                | 29.09         | 36.00               |
| 5745MHz                        | Pass   | 7.10        | 21.77           | 21.60           | 24.70                | 28.90                | 28.87         | 36.00               |
| 5785MHz                        | Pass   | 7.10        | 21.82           | 21.90           | 24.87                | 28.90                | 29.00         | 36.00               |
| 5825MHz                        | Pass   | 7.10        | 21.78           | 21.56           | 24.68                | 28.90                | 28.88         | 36.00               |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5190MHz                        | Pass   | 7.10        | 17.60           | 17.56           | 20.59                | 28.90                | 24.70         | 36.00               |
| 5230MHz                        | Pass   | 7.10        | 21.42           | 21.86           | 24.66                | 28.90                | 28.96         | 36.00               |



## Average Power\_indoor Sample 2

## Appendix C.2

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Total Power<br>(dBm) | Power Limit<br>(dBm) | EIRP<br>(dBm) | EIRP Limit<br>(dBm) |
|--------------------------------|--------|-------------|-----------------|-----------------|----------------------|----------------------|---------------|---------------------|
| 5755MHz                        | Pass   | 7.10        | 21.98           | 21.55           | 24.78                | 28.90                | 29.08         | 36.00               |
| 5795MHz                        | Pass   | 7.10        | 21.98           | 21.45           | 24.73                | 28.90                | 29.08         | 36.00               |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5210MHz                        | Pass   | 7.10        | 16.98           | 16.82           | 19.91                | 28.90                | 24.08         | 36.00               |
| 5775MHz                        | Pass   | 7.10        | 20.87           | 20.97           | 23.93                | 28.90                | 28.07         | 36.00               |

**DG** = Directional Gain; **Port X** = Port X output power

**Summary**

| Mode                           | Total Power<br>(dBm) | Total Power<br>(W) | EIRP<br>(dBm) | EIRP<br>(W) |
|--------------------------------|----------------------|--------------------|---------------|-------------|
| 5.15-5.25GHz                   | -                    | -                  | -             | -           |
| 802.11a_Nss1,(6Mbps)_2TX       | 20.53                | 0.11290            | 23.04         | 0.20137     |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 20.29                | 0.10691            | 22.93         | 0.19634     |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 19.94                | 0.09863            | 22.82         | 0.19143     |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 20.40                | 0.10965            | 22.91         | 0.19543     |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 20.06                | 0.10139            | 22.84         | 0.19231     |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 20.29                | 0.10691            | 22.79         | 0.19011     |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 20.59                | 0.11455            | 23.04         | 0.20137     |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 20.18                | 0.10421            | 23.04         | 0.20137     |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 20.44                | 0.11066            | 22.94         | 0.19679     |
| 5.725-5.85GHz                  | -                    | -                  | -             | -           |
| 802.11a_Nss1,(6Mbps)_2TX       | 25.85                | 0.38459            | 28.37         | 0.68707     |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 25.03                | 0.31842            | 27.63         | 0.57943     |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 24.86                | 0.30620            | 27.50         | 0.56234     |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 25.55                | 0.35892            | 28.02         | 0.63387     |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 25.48                | 0.35318            | 28.01         | 0.63241     |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 23.69                | 0.23388            | 26.52         | 0.44875     |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 25.81                | 0.38107            | 28.39         | 0.69024     |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 25.74                | 0.37497            | 28.34         | 0.68234     |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 23.91                | 0.24604            | 26.67         | 0.46452     |



## Average Power\_outdoor Sample 1

## Appendix C.3

### Result

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Total Power<br>(dBm) | Power Limit<br>(dBm) | EIRP<br>(dBm) | EIRP Limit<br>(dBm) |
|--------------------------------|--------|-------------|-----------------|-----------------|----------------------|----------------------|---------------|---------------------|
| 802.11a_Nss1,(6Mbps)_2TX       | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5180MHz                        | Pass   | 5.40        | 17.62           | 17.37           | 20.51                | 30.00                | 23.02         | 36.00               |
| 5200MHz                        | Pass   | 5.40        | 17.64           | 17.39           | 20.53                | 30.00                | 23.04         | 36.00               |
| 5240MHz                        | Pass   | 5.40        | 17.57           | 17.41           | 20.50                | 30.00                | 22.97         | 36.00               |
| 5745MHz                        | Pass   | 5.40        | 22.71           | 22.97           | 25.85                | 30.00                | 28.37         | 36.00               |
| 5785MHz                        | Pass   | 5.40        | 22.56           | 22.80           | 25.69                | 30.00                | 28.20         | 36.00               |
| 5825MHz                        | Pass   | 5.40        | 22.31           | 22.81           | 25.58                | 30.00                | 28.21         | 36.00               |
| 802.11n HT20_Nss1,(MCS0)_2TX   | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5180MHz                        | Pass   | 5.40        | 17.04           | 16.79           | 19.93                | 30.00                | 22.44         | 36.00               |
| 5200MHz                        | Pass   | 5.40        | 17.38           | 16.87           | 20.14                | 30.00                | 22.78         | 36.00               |
| 5240MHz                        | Pass   | 5.40        | 17.53           | 17.02           | 20.29                | 30.00                | 22.93         | 36.00               |
| 5745MHz                        | Pass   | 5.40        | 22.09           | 21.88           | 25.00                | 30.00                | 27.49         | 36.00               |
| 5785MHz                        | Pass   | 5.40        | 22.03           | 21.70           | 24.88                | 30.00                | 27.43         | 36.00               |
| 5825MHz                        | Pass   | 5.40        | 22.23           | 21.80           | 25.03                | 30.00                | 27.63         | 36.00               |
| 802.11n HT40_Nss1,(MCS0)_2TX   | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5190MHz                        | Pass   | 5.40        | 17.39           | 16.38           | 19.92                | 30.00                | 22.79         | 36.00               |
| 5230MHz                        | Pass   | 5.40        | 17.42           | 16.38           | 19.94                | 30.00                | 22.82         | 36.00               |
| 5755MHz                        | Pass   | 5.40        | 22.10           | 21.58           | 24.86                | 30.00                | 27.50         | 36.00               |
| 5795MHz                        | Pass   | 5.40        | 22.02           | 21.47           | 24.76                | 30.00                | 27.42         | 36.00               |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5180MHz                        | Pass   | 5.40        | 17.16           | 16.99           | 20.09                | 30.00                | 22.56         | 36.00               |
| 5200MHz                        | Pass   | 5.40        | 17.47           | 17.08           | 20.29                | 30.00                | 22.87         | 36.00               |
| 5240MHz                        | Pass   | 5.40        | 17.51           | 17.27           | 20.40                | 30.00                | 22.91         | 36.00               |
| 5745MHz                        | Pass   | 5.40        | 22.62           | 22.46           | 25.55                | 30.00                | 28.02         | 36.00               |
| 5785MHz                        | Pass   | 5.40        | 22.54           | 22.32           | 25.44                | 30.00                | 27.94         | 36.00               |
| 5825MHz                        | Pass   | 5.40        | 22.56           | 22.24           | 25.41                | 30.00                | 27.96         | 36.00               |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5190MHz                        | Pass   | 5.40        | 17.36           | 16.51           | 19.97                | 30.00                | 22.76         | 36.00               |
| 5230MHz                        | Pass   | 5.40        | 17.44           | 16.61           | 20.06                | 30.00                | 22.84         | 36.00               |
| 5755MHz                        | Pass   | 5.40        | 22.61           | 22.32           | 25.48                | 30.00                | 28.01         | 36.00               |
| 5795MHz                        | Pass   | 5.40        | 22.42           | 21.94           | 25.20                | 30.00                | 27.82         | 36.00               |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5210MHz                        | Pass   | 5.40        | 17.39           | 17.17           | 20.29                | 30.00                | 22.79         | 36.00               |
| 5775MHz                        | Pass   | 5.40        | 21.12           | 20.20           | 23.69                | 30.00                | 26.52         | 36.00               |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5180MHz                        | Pass   | 5.40        | 17.58           | 16.88           | 20.25                | 30.00                | 22.98         | 36.00               |
| 5200MHz                        | Pass   | 5.40        | 17.64           | 17.45           | 20.56                | 30.00                | 23.04         | 36.00               |
| 5240MHz                        | Pass   | 5.40        | 17.61           | 17.55           | 20.59                | 30.00                | 23.01         | 36.00               |
| 5745MHz                        | Pass   | 5.40        | 22.74           | 22.84           | 25.80                | 30.00                | 28.24         | 36.00               |
| 5785MHz                        | Pass   | 5.40        | 22.70           | 22.89           | 25.81                | 30.00                | 28.29         | 36.00               |
| 5825MHz                        | Pass   | 5.40        | 22.57           | 22.99           | 25.80                | 30.00                | 28.39         | 36.00               |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5190MHz                        | Pass   | 5.40        | 17.53           | 16.71           | 20.15                | 30.00                | 22.93         | 36.00               |
| 5230MHz                        | Pass   | 5.40        | 17.64           | 16.64           | 20.18                | 30.00                | 23.04         | 36.00               |



## Average Power\_outdoor Sample 1

## Appendix C.3

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Total Power<br>(dBm) | Power Limit<br>(dBm) | EIRP<br>(dBm) | EIRP Limit<br>(dBm) |
|--------------------------------|--------|-------------|-----------------|-----------------|----------------------|----------------------|---------------|---------------------|
| 5755MHz                        | Pass   | 5.40        | 22.94           | 22.51           | 25.74                | 30.00                | 28.34         | 36.00               |
| 5795MHz                        | Pass   | 5.40        | 22.81           | 22.31           | 25.58                | 30.00                | 28.21         | 36.00               |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5210MHz                        | Pass   | 5.40        | 17.54           | 17.31           | 20.44                | 30.00                | 22.94         | 36.00               |
| 5775MHz                        | Pass   | 5.40        | 21.27           | 20.49           | 23.91                | 30.00                | 26.67         | 36.00               |

**DG** = Directional Gain; **Port X** = Port X output power



**MAX. E.I.R.P. At Any Elevation Angle Above 30 Degrees\_  
outdoor Sample 1**

**Appendix C.4**

**Summary**

| Mode                           | Total Power<br>(dBm) | Total Power<br>(W) | EIRP<br>(dBm) | EIRP<br>(W) |
|--------------------------------|----------------------|--------------------|---------------|-------------|
| 5.15-5.25GHz                   | -                    | -                  | -             | -           |
| 802.11a_Nss1,(6Mbps)_2TX       | 20.53                | 0.11290            | 20.94         | 0.12417     |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 20.29                | 0.10691            | 20.83         | 0.12106     |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 19.94                | 0.09863            | 20.72         | 0.11803     |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 20.40                | 0.10965            | 20.83         | 0.12106     |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 20.06                | 0.10139            | 20.72         | 0.11803     |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 20.29                | 0.10691            | 20.69         | 0.11722     |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 20.59                | 0.11455            | 20.94         | 0.12417     |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 20.18                | 0.10421            | 20.94         | 0.12417     |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 20.44                | 0.11066            | 20.84         | 0.12134     |



**MAX. E.I.R.P. At Any Elevation Angle Above 30 Degrees**  
**outdoor Sample 1**

**Appendix C.4**

**Result**

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Total Power<br>(dBm) | Power Limit<br>(dBm) | EIRP<br>(dBm) | Elevation<br>Angle<br>EIRP Limit<br>(dBm) |
|--------------------------------|--------|-------------|-----------------|-----------------|----------------------|----------------------|---------------|-------------------------------------------|
| 802.11a_Nss1,(6Mbps)_2TX       | -      | -           | -               | -               | -                    | -                    | -             | -                                         |
| 5180MHz                        | Pass   | 3.30        | 17.62           | 17.37           | 20.51                | 30.00                | 20.92         | 21.00                                     |
| 5200MHz                        | Pass   | 3.30        | 17.64           | 17.39           | 20.53                | 30.00                | 20.94         | 21.00                                     |
| 5240MHz                        | Pass   | 3.30        | 17.57           | 17.41           | 20.50                | 30.00                | 20.87         | 21.00                                     |
| 802.11n HT20_Nss1,(MCS0)_2TX   | -      | -           | -               | -               | -                    | -                    | -             | -                                         |
| 5180MHz                        | Pass   | 3.30        | 17.04           | 16.79           | 19.93                | 30.00                | 20.34         | 21.00                                     |
| 5200MHz                        | Pass   | 3.30        | 17.38           | 16.87           | 20.14                | 30.00                | 20.68         | 21.00                                     |
| 5240MHz                        | Pass   | 3.30        | 17.53           | 17.02           | 20.29                | 30.00                | 20.83         | 21.00                                     |
| 802.11n HT40_Nss1,(MCS0)_2TX   | -      | -           | -               | -               | -                    | -                    | -             | -                                         |
| 5190MHz                        | Pass   | 3.30        | 17.39           | 16.38           | 19.92                | 30.00                | 20.69         | 21.00                                     |
| 5230MHz                        | Pass   | 3.30        | 17.42           | 16.38           | 19.94                | 30.00                | 20.72         | 21.00                                     |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                                         |
| 5180MHz                        | Pass   | 3.30        | 17.16           | 16.99           | 20.09                | 30.00                | 20.46         | 21.00                                     |
| 5200MHz                        | Pass   | 3.30        | 17.47           | 17.08           | 20.29                | 30.00                | 20.77         | 21.00                                     |
| 5240MHz                        | Pass   | 3.30        | 17.51           | 17.27           | 20.40                | 30.00                | 20.81         | 21.00                                     |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                                         |
| 5190MHz                        | Pass   | 3.30        | 17.36           | 16.51           | 19.97                | 30.00                | 20.66         | 21.00                                     |
| 5230MHz                        | Pass   | 3.30        | 17.44           | 16.61           | 20.06                | 30.00                | 20.74         | 21.00                                     |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                                         |
| 5210MHz                        | Pass   | 3.30        | 17.39           | 17.17           | 20.29                | 30.00                | 20.69         | 21.00                                     |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                                         |
| 5180MHz                        | Pass   | 3.30        | 17.58           | 16.88           | 20.25                | 30.00                | 20.88         | 21.00                                     |
| 5200MHz                        | Pass   | 3.30        | 17.64           | 17.45           | 20.56                | 30.00                | 20.94         | 21.00                                     |
| 5240MHz                        | Pass   | 3.30        | 17.61           | 17.55           | 20.59                | 30.00                | 20.91         | 21.00                                     |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                                         |
| 5190MHz                        | Pass   | 3.30        | 17.53           | 16.71           | 20.15                | 30.00                | 20.83         | 21.00                                     |
| 5230MHz                        | Pass   | 3.30        | 17.64           | 16.64           | 20.18                | 30.00                | 20.94         | 21.00                                     |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                                         |
| 5210MHz                        | Pass   | 3.30        | 17.54           | 17.31           | 20.44                | 30.00                | 20.84         | 21.00                                     |

**DG** = Directional Gain; **Port X** = Port X output power



**Summary**

| Mode                           | Total Power<br>(dBm) | Total Power<br>(W) | EIRP<br>(dBm) | EIRP<br>(W) |
|--------------------------------|----------------------|--------------------|---------------|-------------|
| 5.15-5.25GHz                   | -                    | -                  | -             | -           |
| 802.11a_Nss1,(6Mbps)_2TX       | 16.56                | 0.04524            | 20.93         | 0.12388     |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 15.97                | 0.03954            | 20.42         | 0.11015     |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 16.00                | 0.03981            | 20.25         | 0.10593     |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 16.16                | 0.04130            | 20.53         | 0.11298     |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 16.38                | 0.04345            | 20.66         | 0.11641     |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 16.36                | 0.04325            | 20.85         | 0.12162     |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 16.61                | 0.04581            | 20.92         | 0.12359     |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 16.63                | 0.04603            | 20.96         | 0.12474     |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 16.37                | 0.04335            | 20.80         | 0.12023     |
| 5.725-5.85GHz                  | -                    | -                  | -             | -           |
| 802.11a_Nss1,(6Mbps)_2TX       | 24.89                | 0.30832            | 29.09         | 0.81096     |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 24.51                | 0.28249            | 28.65         | 0.73282     |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 24.50                | 0.28184            | 28.78         | 0.75509     |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 24.62                | 0.28973            | 28.84         | 0.76560     |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 24.56                | 0.28576            | 28.90         | 0.77625     |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 23.60                | 0.22909            | 27.75         | 0.59566     |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 24.87                | 0.30690            | 29.00         | 0.79433     |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 24.78                | 0.30061            | 29.08         | 0.80910     |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 23.93                | 0.24717            | 28.07         | 0.64121     |

## Result

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Total Power<br>(dBm) | Power Limit<br>(dBm) | EIRP<br>(dBm) | EIRP Limit<br>(dBm) |
|--------------------------------|--------|-------------|-----------------|-----------------|----------------------|----------------------|---------------|---------------------|
| 802.11a_Nss1,(6Mbps)_2TX       | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5180MHz                        | Pass   | 7.10        | 13.83           | 13.24           | 16.56                | 30.00                | 20.93         | 36.00               |
| 5200MHz                        | Pass   | 7.10        | 13.60           | 13.24           | 16.43                | 28.90                | 20.70         | 36.00               |
| 5240MHz                        | Pass   | 7.10        | 13.77           | 13.32           | 16.56                | 28.90                | 20.87         | 36.00               |
| 5745MHz                        | Pass   | 7.10        | 21.85           | 21.91           | 24.89                | 28.90                | 29.01         | 36.00               |
| 5785MHz                        | Pass   | 7.10        | 21.66           | 21.99           | 24.84                | 28.90                | 29.09         | 36.00               |
| 5825MHz                        | Pass   | 7.10        | 21.75           | 21.91           | 24.84                | 28.90                | 29.01         | 36.00               |
| 802.11n HT20_Nss1,(MCS0)_2TX   | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5180MHz                        | Pass   | 7.10        | 13.32           | 12.56           | 15.97                | 28.90                | 20.42         | 36.00               |
| 5200MHz                        | Pass   | 7.10        | 13.18           | 12.44           | 15.84                | 28.90                | 20.28         | 36.00               |
| 5240MHz                        | Pass   | 7.10        | 13.23           | 12.63           | 15.95                | 28.90                | 20.33         | 36.00               |
| 5745MHz                        | Pass   | 7.10        | 21.22           | 21.23           | 24.24                | 28.90                | 28.33         | 36.00               |
| 5785MHz                        | Pass   | 7.10        | 21.55           | 21.44           | 24.51                | 28.90                | 28.65         | 36.00               |
| 5825MHz                        | Pass   | 7.10        | 21.37           | 21.24           | 24.32                | 28.90                | 28.47         | 36.00               |
| 802.11n HT40_Nss1,(MCS0)_2TX   | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5190MHz                        | Pass   | 7.10        | 13.15           | 12.83           | 16.00                | 28.90                | 20.25         | 36.00               |
| 5230MHz                        | Pass   | 7.10        | 13.14           | 12.61           | 15.89                | 28.90                | 20.24         | 36.00               |
| 5755MHz                        | Pass   | 7.10        | 21.54           | 21.14           | 24.35                | 28.90                | 28.64         | 36.00               |
| 5795MHz                        | Pass   | 7.10        | 21.68           | 21.29           | 24.50                | 28.90                | 28.78         | 36.00               |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5180MHz                        | Pass   | 7.10        | 13.43           | 12.86           | 16.16                | 28.90                | 20.53         | 36.00               |
| 5200MHz                        | Pass   | 7.10        | 13.24           | 12.75           | 16.01                | 28.90                | 20.34         | 36.00               |
| 5240MHz                        | Pass   | 7.10        | 13.28           | 13.02           | 16.16                | 28.90                | 20.38         | 36.00               |
| 5745MHz                        | Pass   | 7.10        | 21.31           | 21.56           | 24.45                | 28.90                | 28.66         | 36.00               |
| 5785MHz                        | Pass   | 7.10        | 21.47           | 21.74           | 24.62                | 28.90                | 28.84         | 36.00               |
| 5825MHz                        | Pass   | 7.10        | 21.39           | 21.24           | 24.33                | 28.90                | 28.49         | 36.00               |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5190MHz                        | Pass   | 7.10        | 13.56           | 13.17           | 16.38                | 28.90                | 20.66         | 36.00               |
| 5230MHz                        | Pass   | 7.10        | 13.43           | 12.93           | 16.20                | 28.90                | 20.53         | 36.00               |
| 5755MHz                        | Pass   | 7.10        | 21.71           | 21.36           | 24.55                | 28.90                | 28.81         | 36.00               |
| 5795MHz                        | Pass   | 7.10        | 21.80           | 21.28           | 24.56                | 28.90                | 28.90         | 36.00               |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5210MHz                        | Pass   | 7.10        | 13.75           | 12.90           | 16.36                | 28.90                | 20.85         | 36.00               |
| 5775MHz                        | Pass   | 7.10        | 20.52           | 20.65           | 23.60                | 28.90                | 27.75         | 36.00               |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5180MHz                        | Pass   | 7.10        | 13.82           | 13.10           | 16.49                | 28.90                | 20.92         | 36.00               |
| 5200MHz                        | Pass   | 7.10        | 13.71           | 13.16           | 16.45                | 28.90                | 20.81         | 36.00               |
| 5240MHz                        | Pass   | 7.10        | 13.72           | 13.47           | 16.61                | 28.90                | 20.82         | 36.00               |
| 5745MHz                        | Pass   | 7.10        | 21.77           | 21.60           | 24.70                | 28.90                | 28.87         | 36.00               |
| 5785MHz                        | Pass   | 7.10        | 21.82           | 21.90           | 24.87                | 28.90                | 29.00         | 36.00               |
| 5825MHz                        | Pass   | 7.10        | 21.78           | 21.56           | 24.68                | 28.90                | 28.88         | 36.00               |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5190MHz                        | Pass   | 7.10        | 13.86           | 13.37           | 16.63                | 28.90                | 20.96         | 36.00               |
| 5230MHz                        | Pass   | 7.10        | 13.72           | 13.09           | 16.43                | 28.90                | 20.82         | 36.00               |



## Average Power\_outdoor Sample 2

## Appendix C.5

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Total Power<br>(dBm) | Power Limit<br>(dBm) | EIRP<br>(dBm) | EIRP Limit<br>(dBm) |
|--------------------------------|--------|-------------|-----------------|-----------------|----------------------|----------------------|---------------|---------------------|
| 5755MHz                        | Pass   | 7.10        | 21.98           | 21.55           | 24.78                | 28.90                | 29.08         | 36.00               |
| 5795MHz                        | Pass   | 7.10        | 21.98           | 21.45           | 24.73                | 28.90                | 29.08         | 36.00               |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5210MHz                        | Pass   | 7.10        | 13.70           | 13.00           | 16.37                | 28.90                | 20.80         | 36.00               |
| 5775MHz                        | Pass   | 7.10        | 20.87           | 20.97           | 23.93                | 28.90                | 28.07         | 36.00               |

**DG** = Directional Gain; **Port X** = Port X output power



**MAX. E.I.R.P. At Any Elevation Angle Above 30 Degrees\_  
outdoor Sample 2**

**Appendix C.6**

**Summary**

| Mode                           | Total Power<br>(dBm) | Total Power<br>(W) | EIRP<br>(dBm) | EIRP<br>(W) |
|--------------------------------|----------------------|--------------------|---------------|-------------|
| 5.15-5.25GHz                   | -                    | -                  | -             | -           |
| 802.11a_Nss1,(6Mbps)_2TX       | 16.56                | 0.04524            | 20.93         | 0.12388     |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 15.97                | 0.03954            | 20.42         | 0.11015     |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 16.00                | 0.03981            | 20.25         | 0.10593     |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 16.16                | 0.04130            | 20.42         | 0.11015     |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 16.38                | 0.04345            | 20.25         | 0.10593     |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 16.36                | 0.04325            | 20.85         | 0.12162     |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 16.61                | 0.04581            | 20.92         | 0.12359     |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 16.63                | 0.04603            | 20.96         | 0.12474     |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 16.37                | 0.04335            | 20.80         | 0.12023     |



**MAX. E.I.R.P. At Any Elevation Angle Above 30 Degrees**  
**outdoor Sample 2**

**Appendix C.6**

**Result**

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Total Power<br>(dBm) | Power Limit<br>(dBm) | EIRP<br>(dBm) | Elevation<br>Angle<br>EIRP Limit<br>(dBm) |
|--------------------------------|--------|-------------|-----------------|-----------------|----------------------|----------------------|---------------|-------------------------------------------|
| 802.11a_Nss1,(6Mbps)_2TX       | -      | -           | -               | -               | -                    | -                    | -             | -                                         |
| 5180MHz                        | Pass   | 7.10        | 13.83           | 13.24           | 16.56                | 30.00                | 20.93         | 21.00                                     |
| 5200MHz                        | Pass   | 7.10        | 13.60           | 13.24           | 16.43                | 28.90                | 20.70         | 21.00                                     |
| 5240MHz                        | Pass   | 7.10        | 13.77           | 13.32           | 16.56                | 28.90                | 20.87         | 21.00                                     |
| 802.11n HT20_Nss1,(MCS0)_2TX   | -      | -           | -               | -               | -                    | -                    | -             | -                                         |
| 5180MHz                        | Pass   | 7.10        | 13.32           | 12.56           | 15.97                | 28.90                | 20.42         | 21.00                                     |
| 5200MHz                        | Pass   | 7.10        | 13.18           | 12.44           | 15.84                | 28.90                | 20.28         | 21.00                                     |
| 5240MHz                        | Pass   | 7.10        | 13.23           | 12.63           | 15.95                | 28.90                | 20.33         | 21.00                                     |
| 802.11n HT40_Nss1,(MCS0)_2TX   | -      | -           | -               | -               | -                    | -                    | -             | -                                         |
| 5190MHz                        | Pass   | 7.10        | 13.15           | 12.83           | 16.00                | 28.90                | 20.25         | 21.00                                     |
| 5230MHz                        | Pass   | 7.10        | 13.14           | 12.61           | 15.89                | 28.90                | 20.24         | 21.00                                     |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                                         |
| 5180MHz                        | Pass   | 7.10        | 13.43           | 12.86           | 16.16                | 28.90                | 20.53         | 21.00                                     |
| 5200MHz                        | Pass   | 7.10        | 13.24           | 12.75           | 16.01                | 28.90                | 20.34         | 21.00                                     |
| 5240MHz                        | Pass   | 7.10        | 13.28           | 13.02           | 16.16                | 28.90                | 20.38         | 21.00                                     |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                                         |
| 5190MHz                        | Pass   | 7.10        | 13.56           | 13.17           | 16.38                | 28.90                | 20.66         | 21.00                                     |
| 5230MHz                        | Pass   | 7.10        | 13.43           | 12.93           | 16.20                | 28.90                | 20.53         | 21.00                                     |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                                         |
| 5210MHz                        | Pass   | 7.10        | 13.75           | 12.90           | 16.36                | 28.90                | 20.85         | 21.00                                     |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                                         |
| 5180MHz                        | Pass   | 7.10        | 13.82           | 13.10           | 16.49                | 28.90                | 20.92         | 21.00                                     |
| 5200MHz                        | Pass   | 7.10        | 13.71           | 13.16           | 16.45                | 28.90                | 20.81         | 21.00                                     |
| 5240MHz                        | Pass   | 7.10        | 13.72           | 13.47           | 16.61                | 28.90                | 20.82         | 21.00                                     |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                                         |
| 5190MHz                        | Pass   | 7.10        | 13.86           | 13.37           | 16.63                | 28.90                | 20.96         | 21.00                                     |
| 5230MHz                        | Pass   | 7.10        | 13.72           | 13.09           | 16.43                | 28.90                | 20.82         | 21.00                                     |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                                         |
| 5210MHz                        | Pass   | 7.10        | 13.70           | 13.00           | 16.37                | 28.90                | 20.80         | 21.00                                     |

**DG** = Directional Gain; **Port X** = Port X output power

**Summary**

| Mode                           | PD<br>(dBm/RBW) | EIRP PD<br>(dBm/RBW) |
|--------------------------------|-----------------|----------------------|
| 5.15-5.25GHz                   | -               | -                    |
| 802.11a_Nss1,(6Mbps)_2TX       | 12.58           | 15.12                |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 11.89           | 14.48                |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 8.32            | 11.25                |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 12.04           | 14.71                |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 8.40            | 11.29                |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 2.90            | 5.48                 |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 11.92           | 14.43                |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 8.61            | 11.34                |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 3.00            | 5.68                 |
| 5.725-5.85GHz                  | -               | -                    |
| 802.11a_Nss1,(6Mbps)_2TX       | 11.15           | 13.69                |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 10.55           | 13.36                |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 7.47            | 10.33                |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 10.57           | 13.19                |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 7.69            | 10.36                |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 3.50            | 6.35                 |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 10.60           | 13.18                |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 7.89            | 10.60                |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 3.30            | 6.15                 |

**RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

**Result**

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm/RBW) | Port 2<br>(dBm/RBW) | PD<br>(dBm/RBW) | PD Limit<br>(dBm/RBW) | EIRP PD<br>(dBm/RBW) | EIRP PD Limit<br>(dBm/RBW) |
|--------------------------------|--------|-------------|---------------------|---------------------|-----------------|-----------------------|----------------------|----------------------------|
| 802.11a_Nss1,(6Mbps)_2TX       | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5180MHz                        | Pass   | 5.40        | 8.87                | 8.32                | 11.55           | 17.00                 | 14.27                | 23.00                      |
| 5200MHz                        | Pass   | 5.40        | 9.72                | 9.21                | 12.41           | 17.00                 | 15.12                | 23.00                      |
| 5240MHz                        | Pass   | 5.40        | 9.57                | 9.70                | 12.58           | 17.00                 | 15.10                | 23.00                      |
| 5745MHz                        | Pass   | 5.40        | 8.06                | 8.29                | 11.15           | 30.00                 | 13.69                | 36.00                      |
| 5785MHz                        | Pass   | 5.40        | 7.91                | 8.10                | 10.91           | 30.00                 | 13.50                | 36.00                      |
| 5825MHz                        | Pass   | 5.40        | 7.65                | 8.17                | 10.87           | 30.00                 | 13.57                | 36.00                      |
| 802.11n HT20_Nss1,(MCS0)_2TX   | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5180MHz                        | Pass   | 5.40        | 6.87                | 6.50                | 9.57            | 17.00                 | 12.27                | 23.00                      |
| 5200MHz                        | Pass   | 5.40        | 8.99                | 8.55                | 11.68           | 17.00                 | 14.39                | 23.00                      |
| 5240MHz                        | Pass   | 5.40        | 9.08                | 8.88                | 11.89           | 17.00                 | 14.48                | 23.00                      |
| 5745MHz                        | Pass   | 5.40        | 7.73                | 7.42                | 10.40           | 30.00                 | 13.13                | 36.00                      |
| 5785MHz                        | Pass   | 5.40        | 7.63                | 7.26                | 10.39           | 30.00                 | 13.03                | 36.00                      |
| 5825MHz                        | Pass   | 5.40        | 7.96                | 7.40                | 10.55           | 30.00                 | 13.36                | 36.00                      |
| 802.11n HT40_Nss1,(MCS0)_2TX   | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5190MHz                        | Pass   | 5.40        | 2.97                | 2.19                | 5.54            | 17.00                 | 8.37                 | 23.00                      |
| 5230MHz                        | Pass   | 5.40        | 5.85                | 5.05                | 8.32            | 17.00                 | 11.25                | 23.00                      |
| 5755MHz                        | Pass   | 5.40        | 4.88                | 4.20                | 7.47            | 30.00                 | 10.28                | 36.00                      |
| 5795MHz                        | Pass   | 5.40        | 4.93                | 4.22                | 7.46            | 30.00                 | 10.33                | 36.00                      |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5180MHz                        | Pass   | 5.40        | 7.04                | 6.60                | 9.78            | 17.00                 | 12.44                | 23.00                      |
| 5200MHz                        | Pass   | 5.40        | 9.31                | 8.75                | 11.95           | 17.00                 | 14.71                | 23.00                      |
| 5240MHz                        | Pass   | 5.40        | 9.15                | 8.96                | 12.04           | 17.00                 | 14.55                | 23.00                      |
| 5745MHz                        | Pass   | 5.40        | 7.79                | 7.53                | 10.57           | 30.00                 | 13.19                | 36.00                      |
| 5785MHz                        | Pass   | 5.40        | 7.75                | 7.53                | 10.57           | 30.00                 | 13.15                | 36.00                      |
| 5825MHz                        | Pass   | 5.40        | 7.70                | 7.35                | 10.47           | 30.00                 | 13.10                | 36.00                      |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5190MHz                        | Pass   | 5.40        | 2.93                | 2.27                | 5.50            | 17.00                 | 8.33                 | 23.00                      |
| 5230MHz                        | Pass   | 5.40        | 5.89                | 5.16                | 8.40            | 17.00                 | 11.29                | 23.00                      |
| 5755MHz                        | Pass   | 5.40        | 4.96                | 4.56                | 7.69            | 30.00                 | 10.36                | 36.00                      |
| 5795MHz                        | Pass   | 5.40        | 4.71                | 4.16                | 7.41            | 30.00                 | 10.11                | 36.00                      |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5210MHz                        | Pass   | 5.40        | 0.08                | -0.04               | 2.90            | 17.00                 | 5.48                 | 23.00                      |
| 5775MHz                        | Pass   | 5.40        | 0.95                | -0.00               | 3.50            | 30.00                 | 6.35                 | 36.00                      |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5180MHz                        | Pass   | 5.40        | 7.21                | 6.73                | 9.93            | 17.00                 | 12.61                | 23.00                      |
| 5200MHz                        | Pass   | 5.40        | 8.74                | 8.98                | 11.80           | 17.00                 | 14.38                | 23.00                      |
| 5240MHz                        | Pass   | 5.40        | 8.90                | 9.03                | 11.92           | 17.00                 | 14.43                | 23.00                      |
| 5745MHz                        | Pass   | 5.40        | 7.46                | 7.78                | 10.60           | 30.00                 | 13.18                | 36.00                      |
| 5785MHz                        | Pass   | 5.40        | 7.36                | 7.70                | 10.51           | 30.00                 | 13.10                | 36.00                      |
| 5825MHz                        | Pass   | 5.40        | 7.39                | 7.66                | 10.53           | 30.00                 | 13.06                | 36.00                      |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5190MHz                        | Pass   | 5.40        | 3.21                | 2.33                | 5.73            | 17.00                 | 8.61                 | 23.00                      |
| 5230MHz                        | Pass   | 5.40        | 5.94                | 5.34                | 8.61            | 17.00                 | 11.34                | 23.00                      |



## PSD\_indoor Sample 1

## Appendix D.1

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm/RBW) | Port 2<br>(dBm/RBW) | PD<br>(dBm/RBW) | PD Limit<br>(dBm/RBW) | EIRP PD<br>(dBm/RBW) | EIRP PD Limit<br>(dBm/RBW) |
|--------------------------------|--------|-------------|---------------------|---------------------|-----------------|-----------------------|----------------------|----------------------------|
| 5755MHz                        | Pass   | 5.40        | 5.20                | 4.71                | 7.89            | 30.00                 | 10.60                | 36.00                      |
| 5795MHz                        | Pass   | 5.40        | 4.96                | 4.27                | 7.55            | 30.00                 | 10.36                | 36.00                      |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5210MHz                        | Pass   | 5.40        | 0.19                | 0.28                | 3.00            | 17.00                 | 5.68                 | 23.00                      |
| 5775MHz                        | Pass   | 5.40        | 0.75                | -0.08               | 3.30            | 30.00                 | 6.15                 | 36.00                      |

**DG** = Directional Gain; **RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

**PD** = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

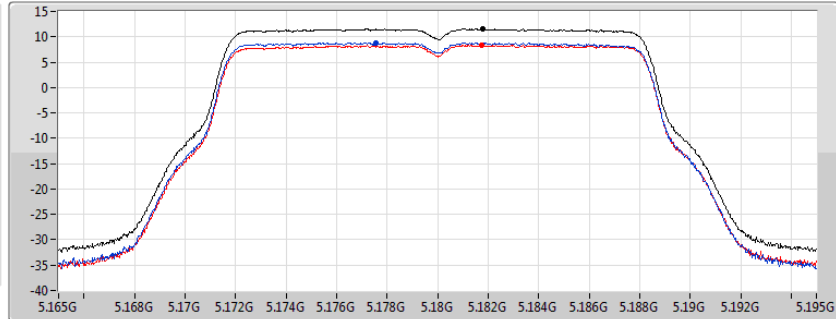
### 802.11a\_Nss1,(6Mbps)\_2TX

### PSD

5180MHz

15/07/2020

CF  
5.18GHz  
Span  
30MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
20ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2

| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 11.55     | 11.55     | 8.87      | 8.32      |

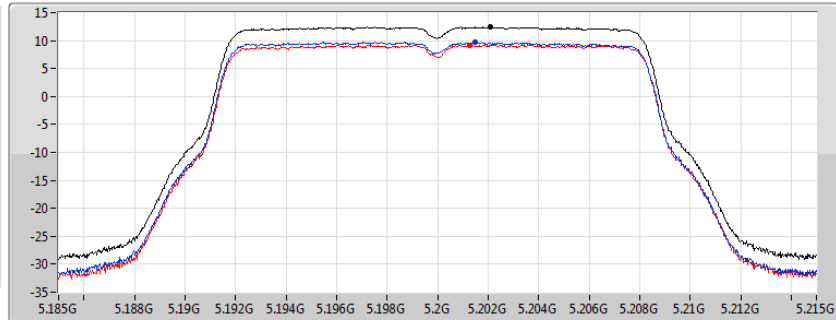
### 802.11a\_Nss1,(6Mbps)\_2TX

### PSD

5200MHz

15/07/2020

CF  
5.2GHz  
Span  
30MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
20ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2

| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 12.41     | 12.41     | 9.72      | 9.21      |

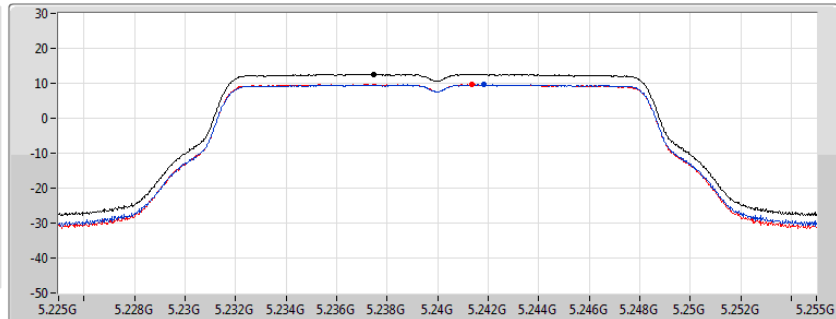
### 802.11a\_Nss1,(6Mbps)\_2TX

### PSD

5240MHz

17/07/2020

CF  
5.24GHz  
Span  
30MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
20ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2

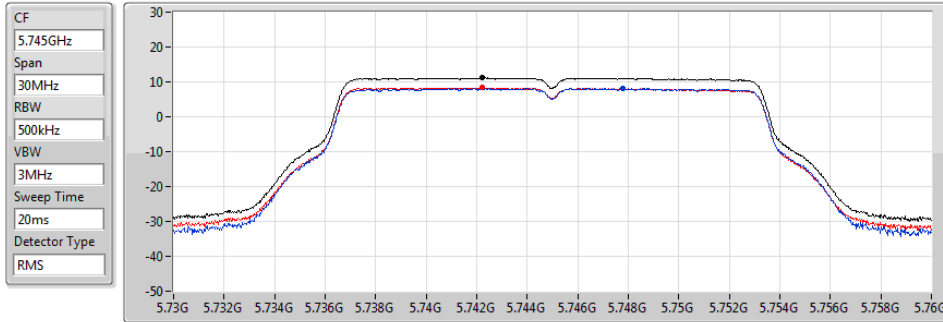
| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 12.58     | 12.58     | 9.57      | 9.70      |

### 802.11a\_Nss1,(6Mbps)\_2TX

5745MHz

PSD

17/07/2020



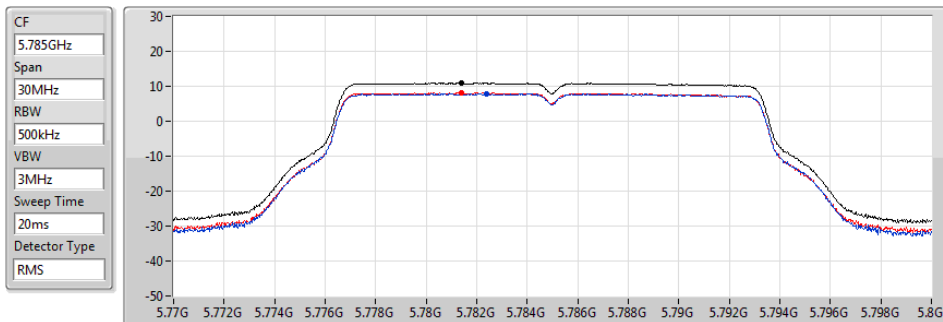
| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 11.15    | 11.15    | 8.06     | 8.29     |

### 802.11a\_Nss1,(6Mbps)\_2TX

5785MHz

PSD

17/07/2020



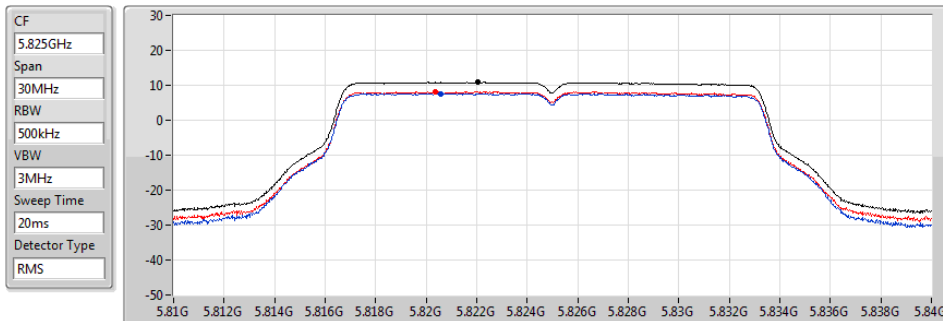
| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 10.91    | 10.91    | 7.91     | 8.10     |

### 802.11a\_Nss1,(6Mbps)\_2TX

5825MHz

PSD

17/07/2020



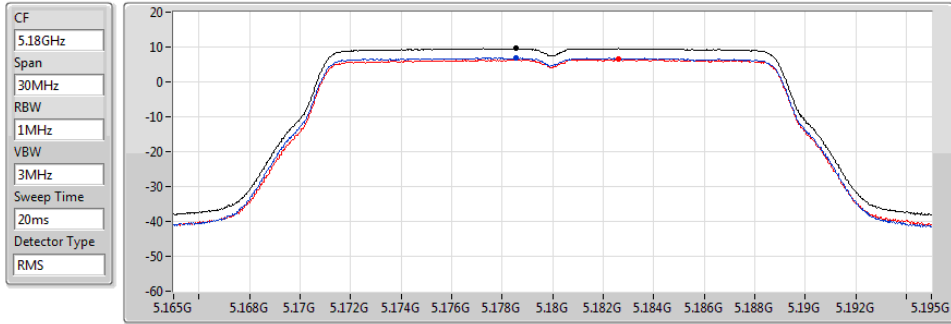
| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 10.87    | 10.87    | 7.65     | 8.17     |

### 802.11n HT20\_Nss1,(MCS0)\_2TX

### PSD

5180MHz

22/07/2020



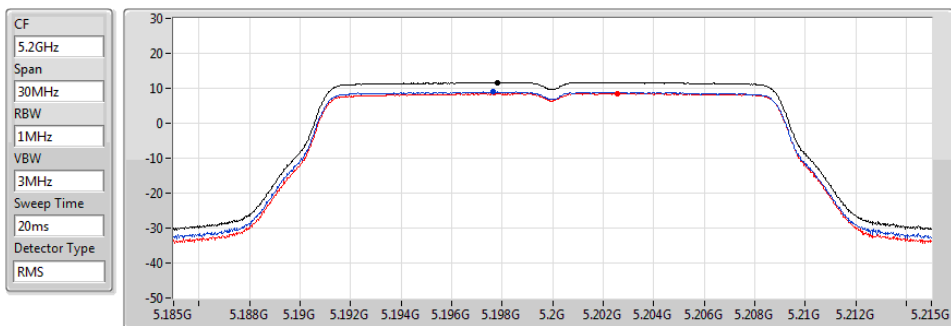
| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 9.57     | 9.57     | 6.87     | 6.50     |

### 802.11n HT20\_Nss1,(MCS0)\_2TX

### PSD

5200MHz

22/07/2020



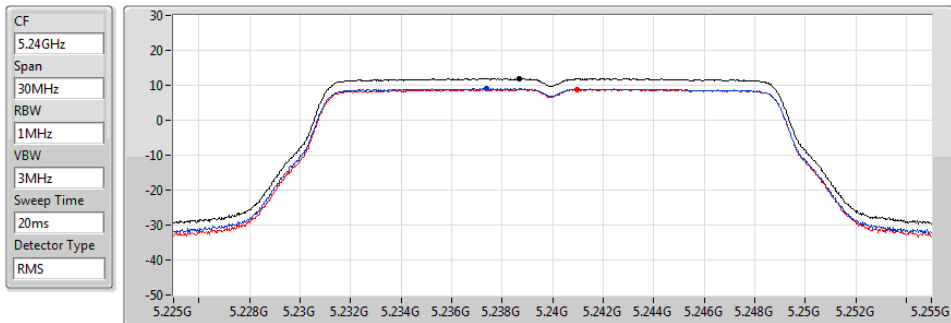
| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 11.68    | 11.68    | 8.99     | 8.55     |

### 802.11n HT20\_Nss1,(MCS0)\_2TX

### PSD

5240MHz

22/07/2020



| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 11.89    | 11.89    | 9.08     | 8.88     |

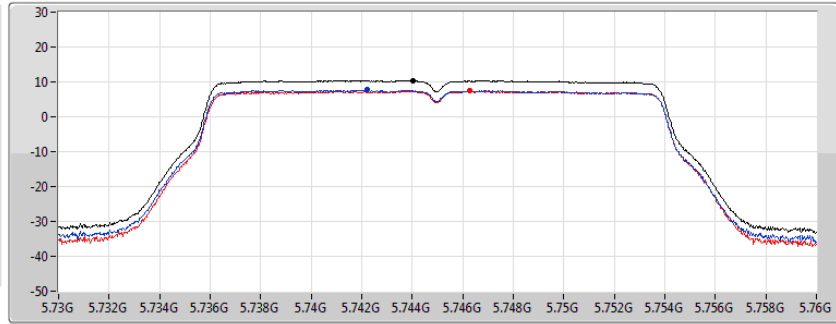
### 802.11n HT20\_Nss1,(MCS0)\_2TX

5745MHz

PSD

22/07/2020

CF  
5.745GHz  
Span  
30MHz  
RBW  
500kHz  
VBW  
3MHz  
Sweep Time  
20ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2

| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 10.40    | 10.40    | 7.73     | 7.42     |

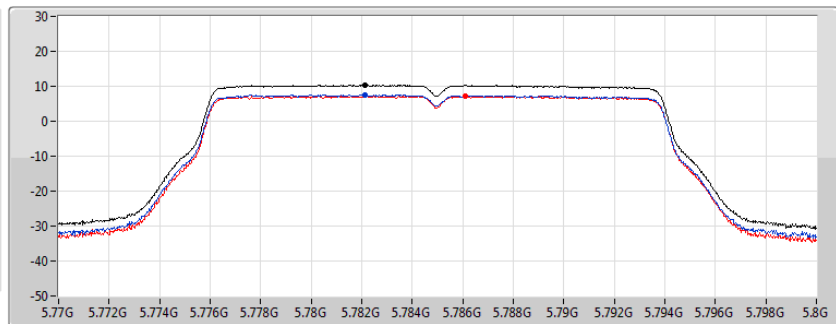
### 802.11n HT20\_Nss1,(MCS0)\_2TX

5785MHz

PSD

22/07/2020

CF  
5.785GHz  
Span  
30MHz  
RBW  
500kHz  
VBW  
3MHz  
Sweep Time  
20ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2

| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 10.39    | 10.39    | 7.63     | 7.26     |

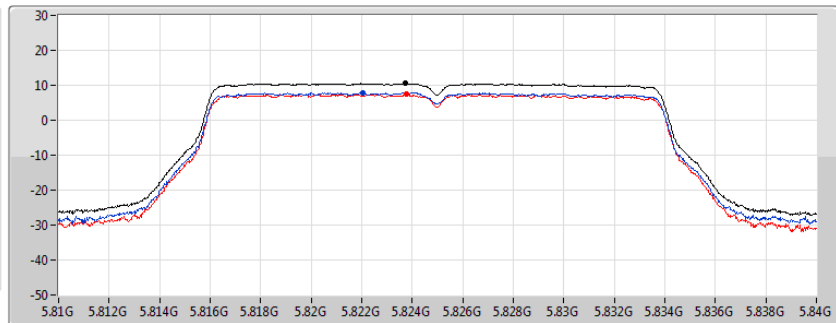
### 802.11n HT20\_Nss1,(MCS0)\_2TX

5825MHz

PSD

22/07/2020

CF  
5.825GHz  
Span  
30MHz  
RBW  
500kHz  
VBW  
3MHz  
Sweep Time  
20ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2

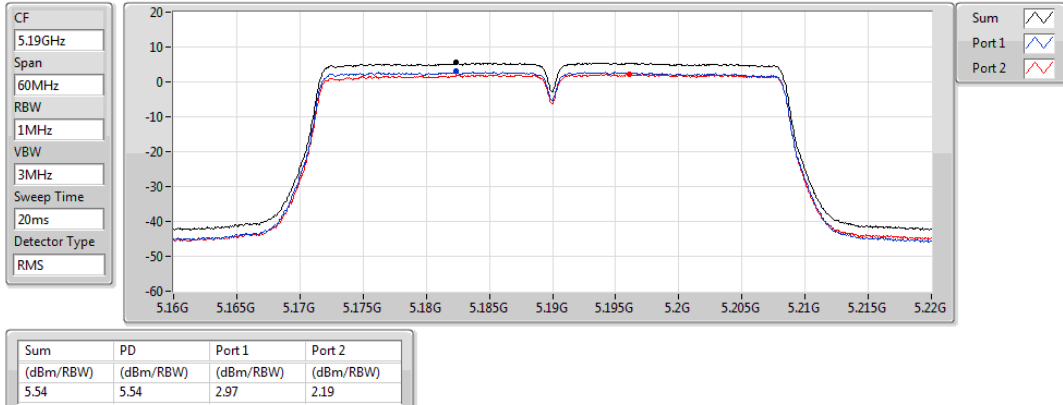
| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 10.55    | 10.55    | 7.96     | 7.40     |

### 802.11n HT40\_Nss1,(MCS0)\_2TX

### PSD

5190MHz

22/07/2020

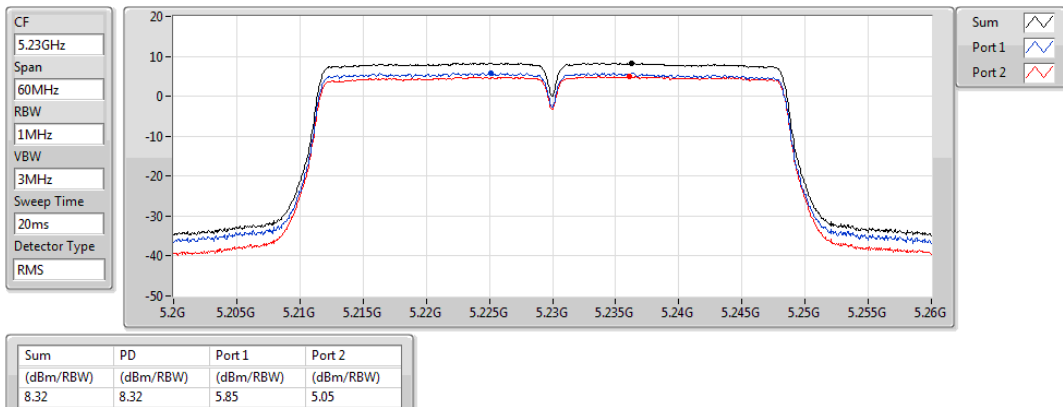


### 802.11n HT40\_Nss1,(MCS0)\_2TX

### PSD

5230MHz

22/07/2020

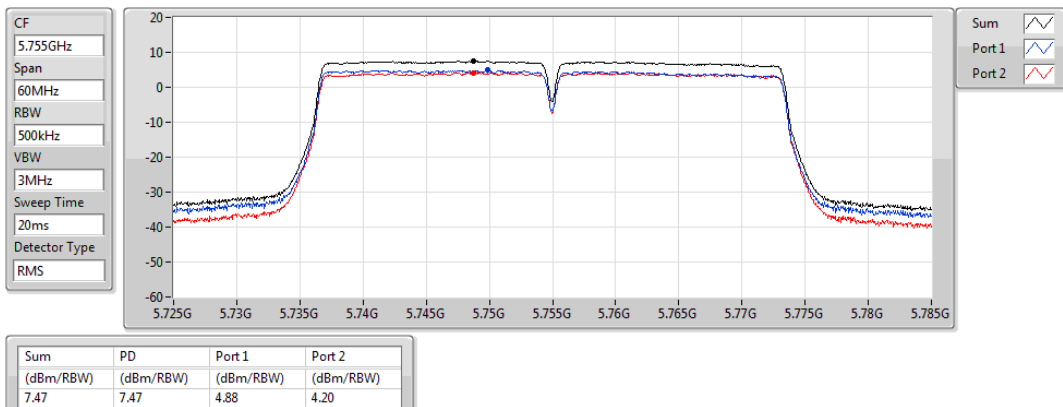


### 802.11n HT40\_Nss1,(MCS0)\_2TX

### PSD

5755MHz

22/07/2020



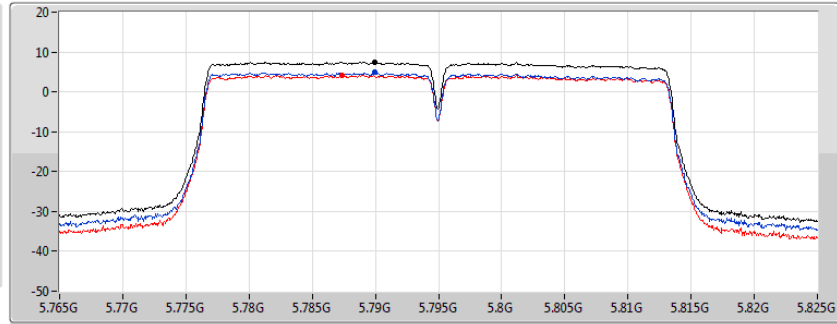
### 802.11n HT40\_Nss1,(MCS0)\_2TX

### PSD

5795MHz

22/07/2020

CF  
5.795GHz  
Span  
60MHz  
RBW  
500kHz  
VBW  
3MHz  
Sweep Time  
20ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2

| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 7.46      | 7.46      | 4.93      | 4.22      |

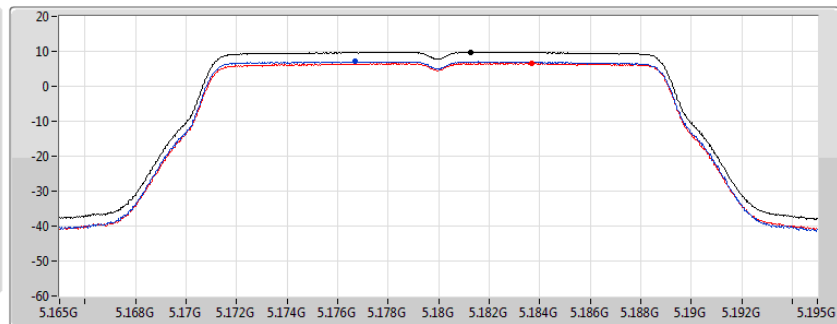
### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

### PSD

5180MHz

17/07/2020

CF  
5.18GHz  
Span  
30MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
20ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2

| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 9.78      | 9.78      | 7.04      | 6.60      |

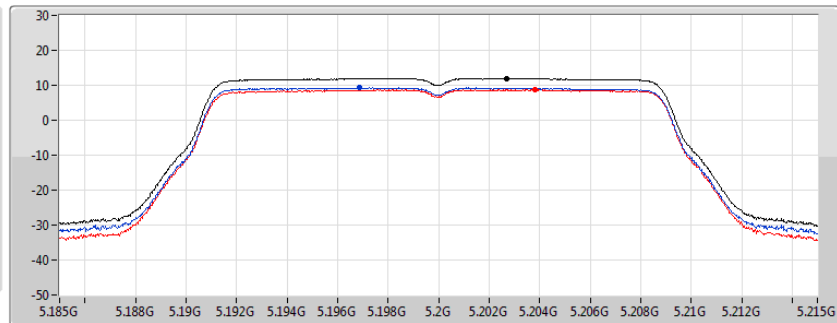
### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

### PSD

5200MHz

17/07/2020

CF  
5.2GHz  
Span  
30MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
20ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2

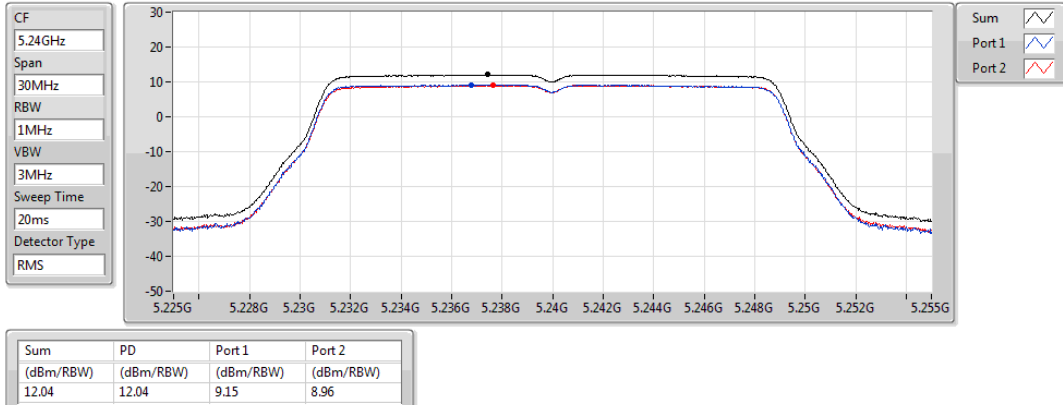
| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 11.95     | 11.95     | 9.31      | 8.75      |

### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

### PSD

5240MHz

17/07/2020

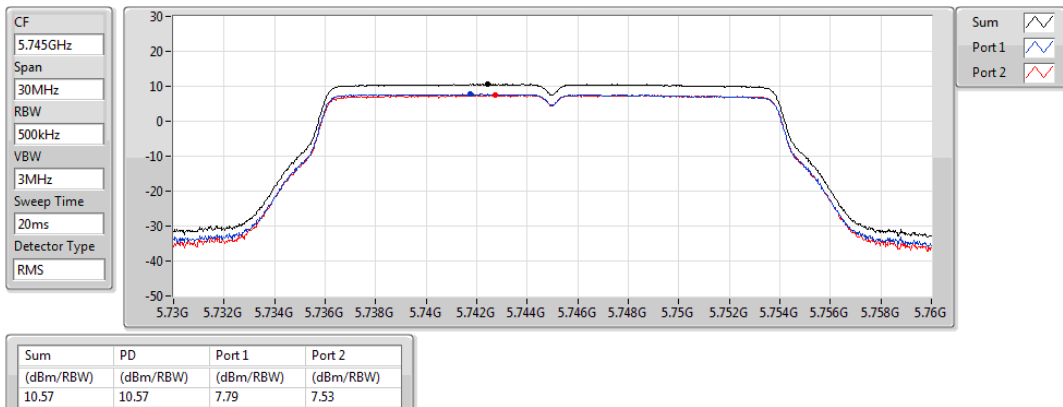


### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

### PSD

5745MHz

17/07/2020

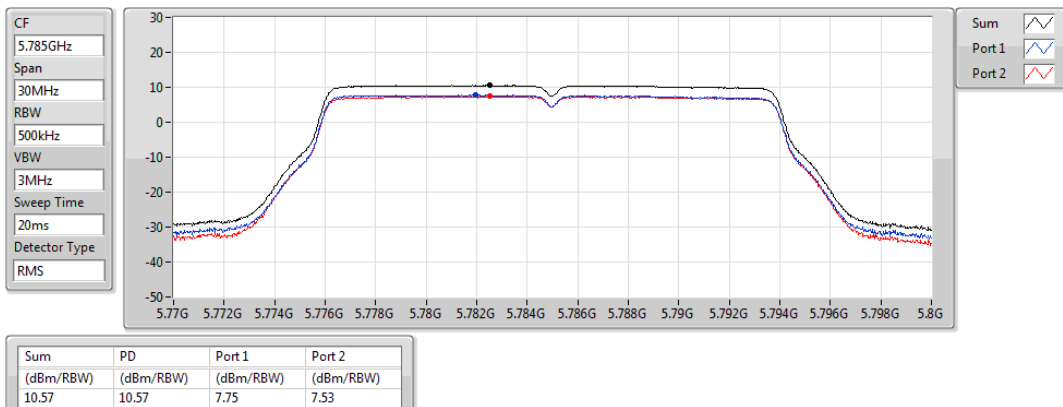


### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

### PSD

5785MHz

17/07/2020

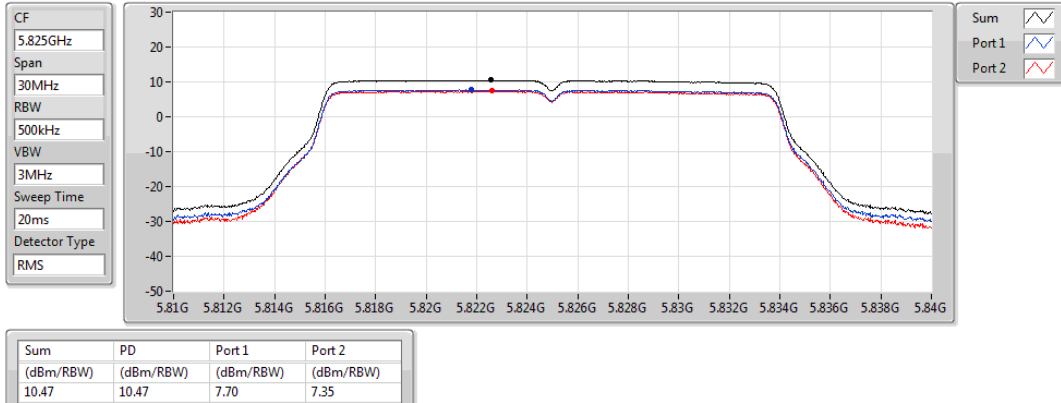


### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

### PSD

5825MHz

17/07/2020

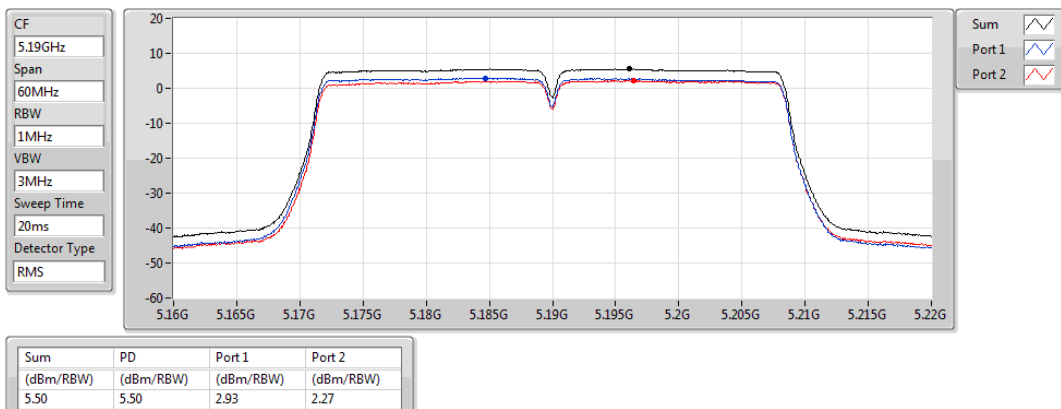


### 802.11ac VHT40\_Nss1,(MCS0)\_2TX

### PSD

5190MHz

17/07/2020

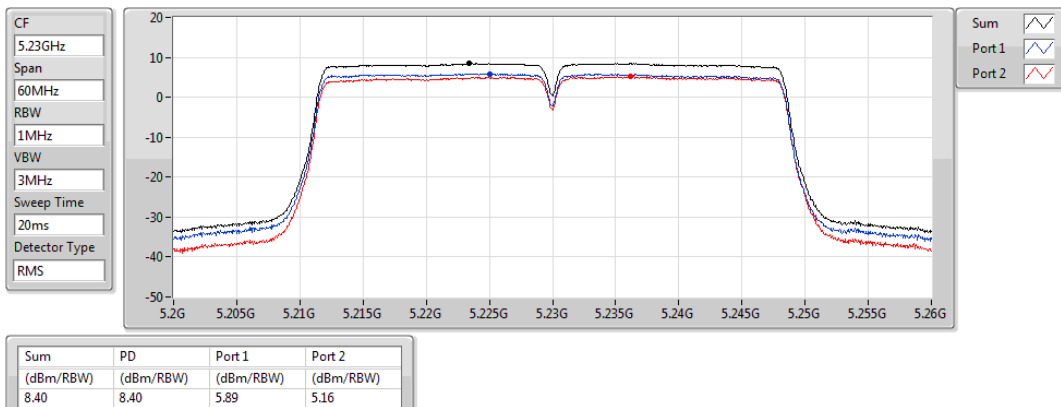


### 802.11ac VHT40\_Nss1,(MCS0)\_2TX

### PSD

5230MHz

17/07/2020

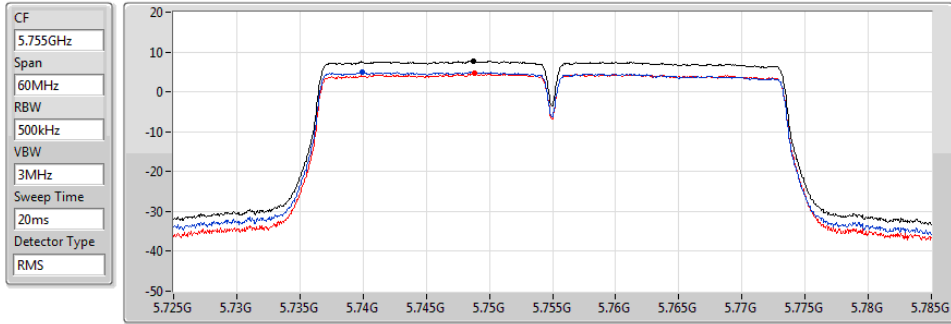


### 802.11ac VHT40\_Nss1,(MCS0)\_2TX

5755MHz

PSD

17/07/2020



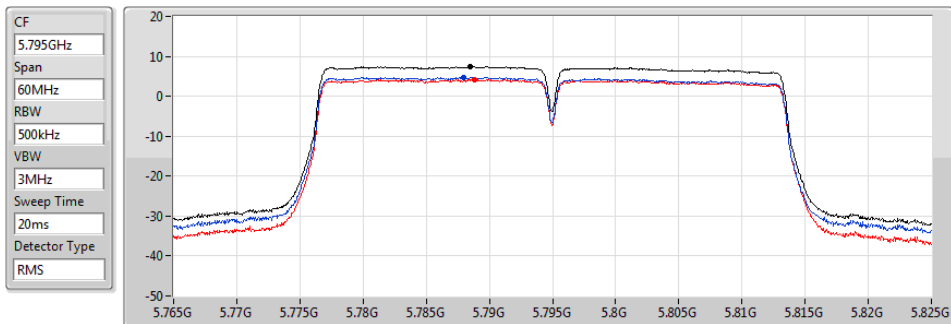
| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 7.69      | 7.69      | 4.96      | 4.56      |

### 802.11ac VHT40\_Nss1,(MCS0)\_2TX

5795MHz

PSD

17/07/2020



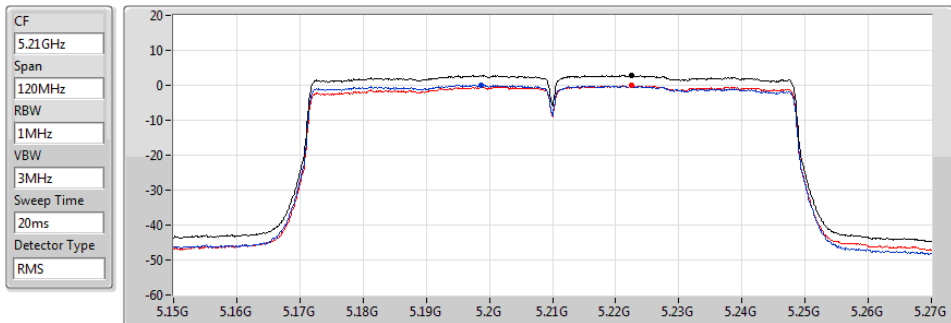
| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 7.41      | 7.41      | 4.71      | 4.16      |

### 802.11ac VHT80\_Nss1,(MCS0)\_2TX

5210MHz

PSD

18/07/2020



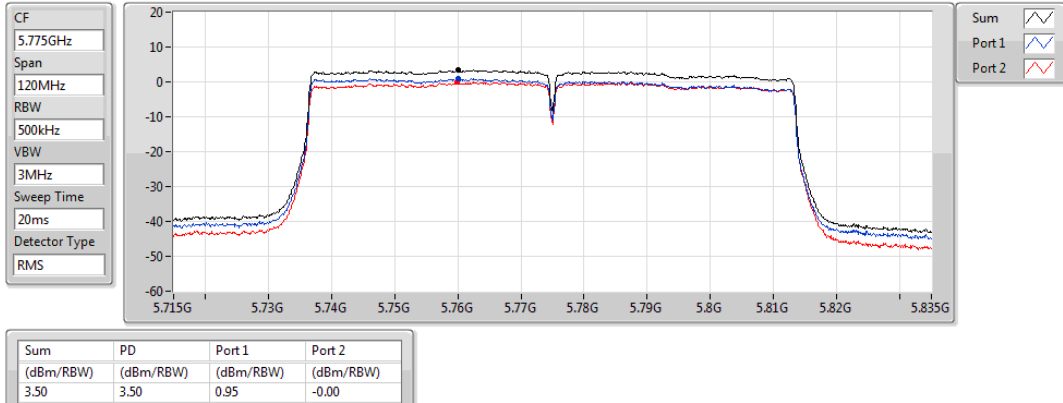
| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 2.90      | 2.90      | 0.08      | -0.04     |

### 802.11ac VHT80\_Nss1,(MCS0)\_2TX

### PSD

5775MHz

18/07/2020

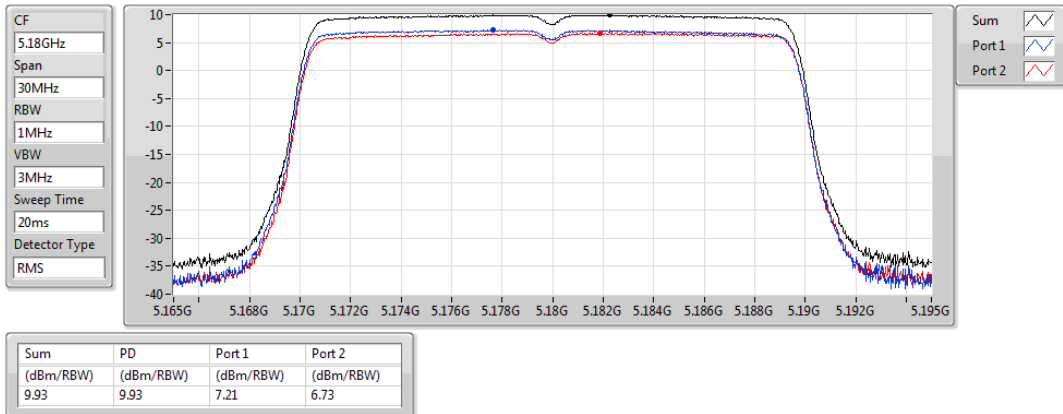


### 802.11ax HEW20\_Nss1,(MCS0)\_2TX

### PSD

5180MHz

16/07/2020

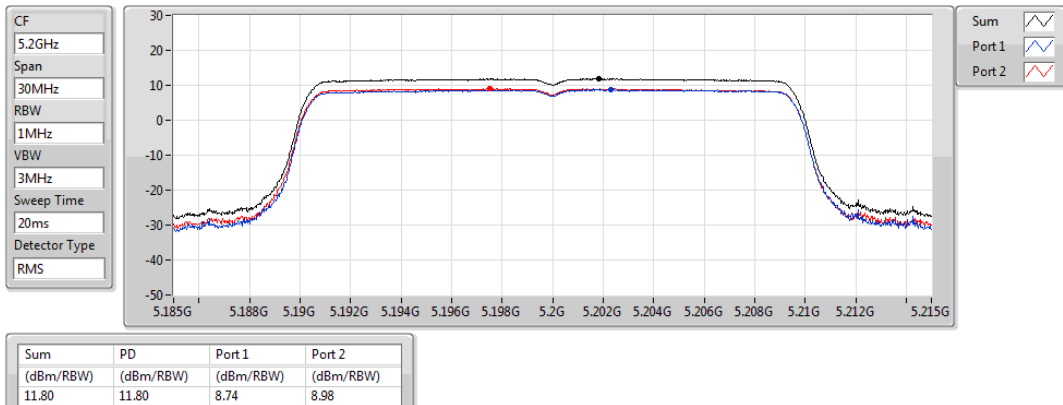


### 802.11ax HEW20\_Nss1,(MCS0)\_2TX

### PSD

5200MHz

17/07/2020

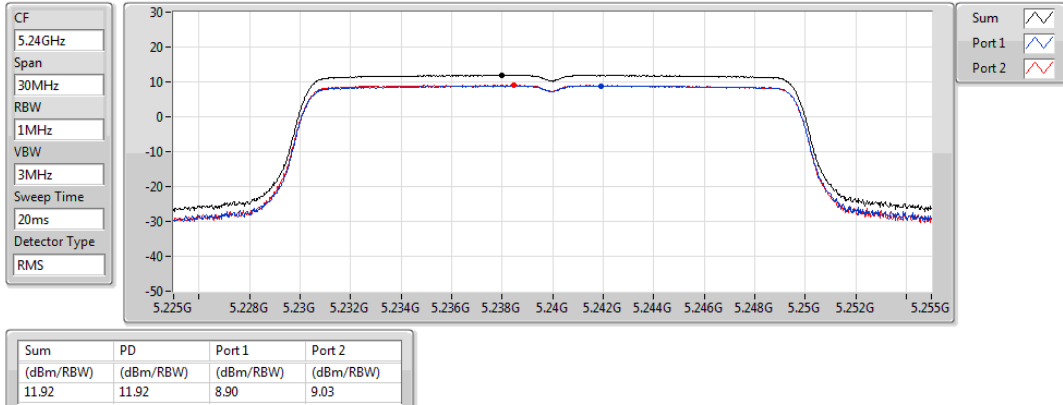


### 802.11ax HEW20\_Nss1,(MCS0)\_2TX

### PSD

5240MHz

17/07/2020

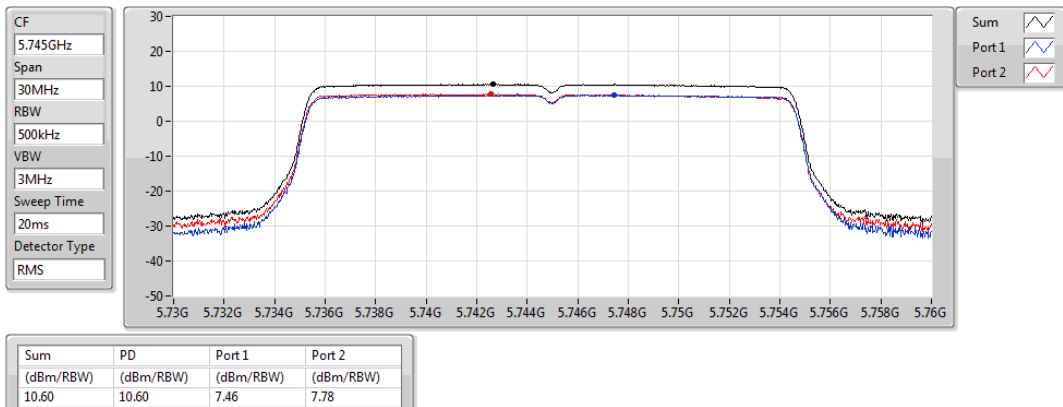


### 802.11ax HEW20\_Nss1,(MCS0)\_2TX

### PSD

5745MHz

17/07/2020

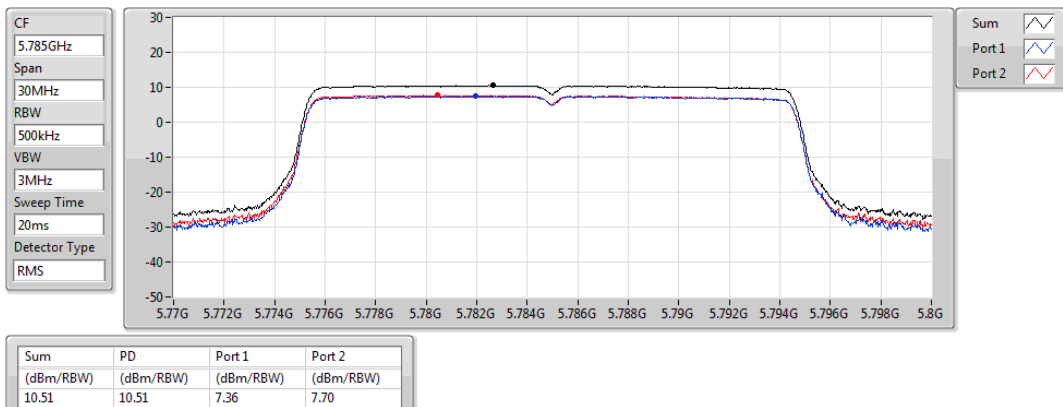


### 802.11ax HEW20\_Nss1,(MCS0)\_2TX

### PSD

5785MHz

17/07/2020

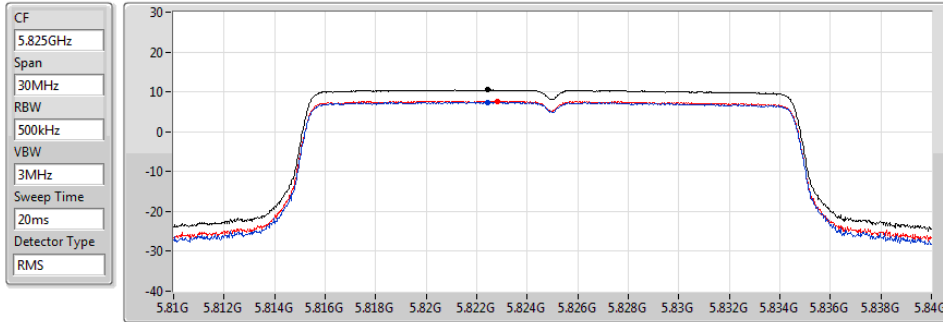


### 802.11ax HEW20\_Nss1,(MCS0)\_2TX

5825MHz

PSD

17/07/2020



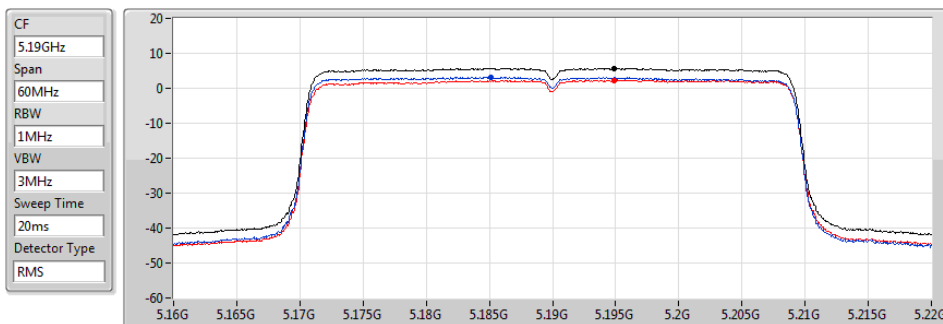
| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 10.53    | 10.53    | 7.39     | 7.66     |

### 802.11ax HEW40\_Nss1,(MCS0)\_2TX

5190MHz

PSD

17/07/2020



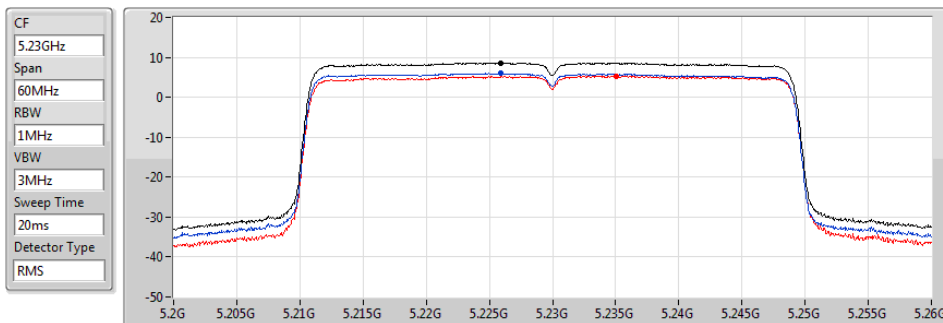
| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 5.73     | 5.73     | 3.21     | 2.33     |

### 802.11ax HEW40\_Nss1,(MCS0)\_2TX

5230MHz

PSD

17/07/2020



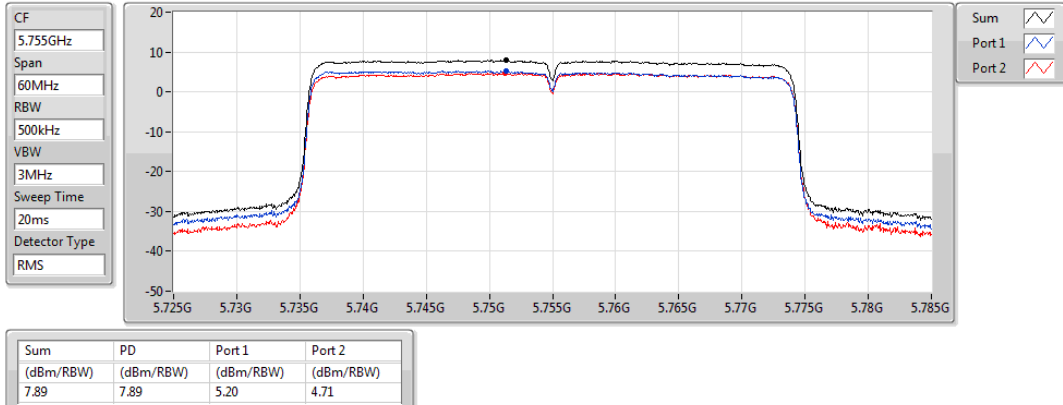
| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 8.61     | 8.61     | 5.94     | 5.34     |

### 802.11ax HEW40\_Nss1,(MCS0)\_2TX

### PSD

5755MHz

17/07/2020

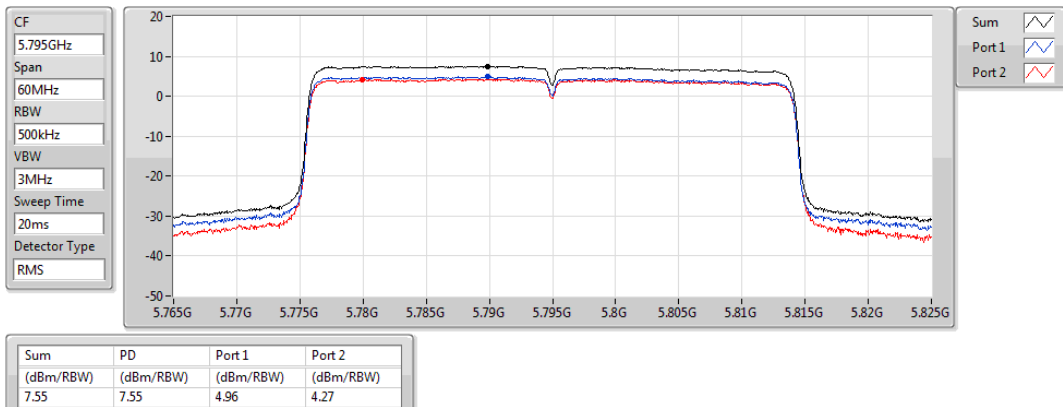


### 802.11ax HEW40\_Nss1,(MCS0)\_2TX

### PSD

5795MHz

17/07/2020

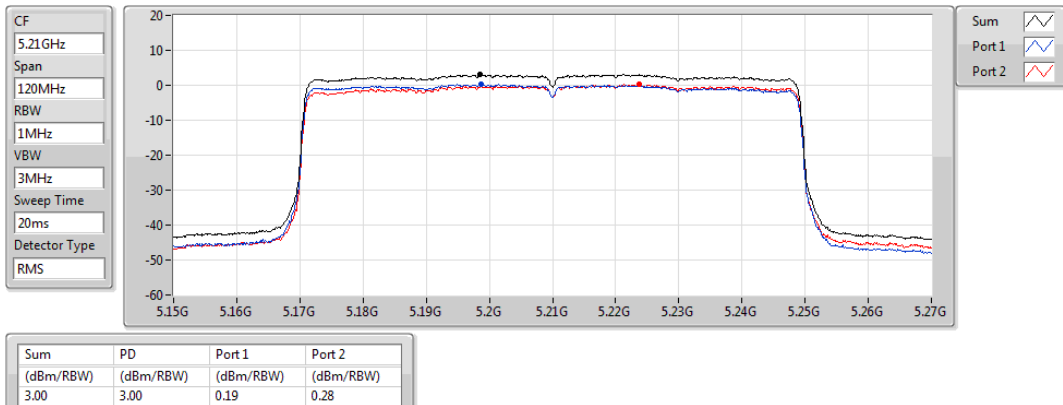


### 802.11ax HEW80\_Nss1,(MCS0)\_2TX

### PSD

5210MHz

17/07/2020

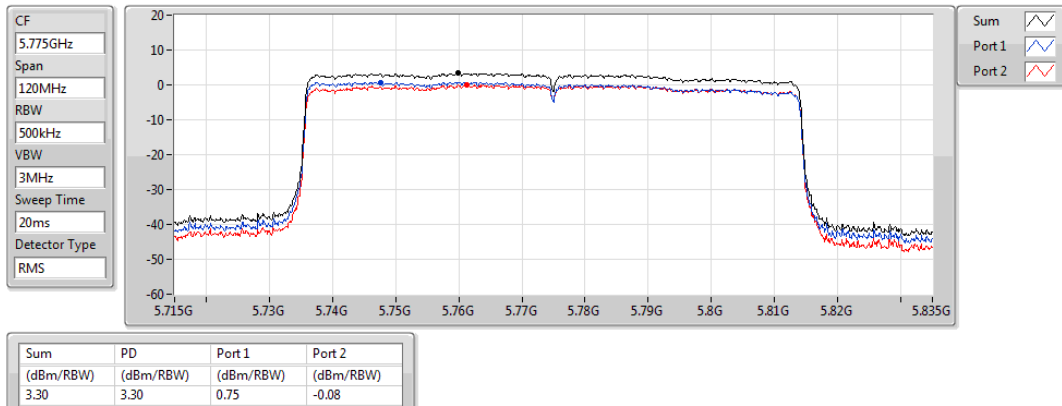


802.11ax HEW80\_Nss1,(MCS0)\_2TX

PSD

5775MHz

17/07/2020



**Summary**

| Mode                           | PD<br>(dBm/RBW) | EIRP PD<br>(dBm/RBW) |
|--------------------------------|-----------------|----------------------|
| 5.15-5.25GHz                   | -               | -                    |
| 802.11a_Nss1,(6Mbps)_2TX       | 11.64           | 16.05                |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 11.22           | 15.66                |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 8.34            | 12.61                |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 11.12           | 15.50                |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 8.20            | 12.63                |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 0.75            | 4.98                 |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 11.10           | 15.45                |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 8.18            | 12.52                |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 0.89            | 5.14                 |
| 5.725-5.85GHz                  | -               | -                    |
| 802.11a_Nss1,(6Mbps)_2TX       | 10.22           | 14.44                |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 9.69            | 14.00                |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 6.96            | 11.39                |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 9.77            | 14.00                |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 6.95            | 11.30                |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 3.34            | 7.55                 |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 9.77            | 13.94                |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 6.99            | 11.38                |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 3.56            | 7.85                 |

**RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

**Result**

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm/RBW) | Port 2<br>(dBm/RBW) | PD<br>(dBm/RBW) | PD Limit<br>(dBm/RBW) | EIRP PD<br>(dBm/RBW) | EIRP PD Limit<br>(dBm/RBW) |
|--------------------------------|--------|-------------|---------------------|---------------------|-----------------|-----------------------|----------------------|----------------------------|
| 802.11a_Nss1,(6Mbps)_2TX       | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5180MHz                        | Pass   | 7.10        | 7.74                | 8.01                | 10.86           | 15.90                 | 15.11                | 23.00                      |
| 5200MHz                        | Pass   | 7.10        | 8.43                | 8.95                | 11.64           | 15.90                 | 16.05                | 23.00                      |
| 5240MHz                        | Pass   | 7.10        | 8.25                | 8.76                | 11.42           | 15.90                 | 15.86                | 23.00                      |
| 5745MHz                        | Pass   | 7.10        | 7.34                | 7.25                | 10.20           | 28.90                 | 14.44                | 36.00                      |
| 5785MHz                        | Pass   | 7.10        | 7.21                | 7.34                | 10.22           | 28.90                 | 14.44                | 36.00                      |
| 5825MHz                        | Pass   | 7.10        | 7.11                | 7.26                | 10.15           | 28.90                 | 14.36                | 36.00                      |
| 802.11n HT20_Nss1,(MCS0)_2TX   | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5180MHz                        | Pass   | 7.10        | 5.98                | 5.98                | 8.81            | 15.90                 | 13.08                | 23.00                      |
| 5200MHz                        | Pass   | 7.10        | 8.15                | 8.42                | 11.16           | 15.90                 | 15.52                | 23.00                      |
| 5240MHz                        | Pass   | 7.10        | 8.02                | 8.56                | 11.22           | 15.90                 | 15.66                | 23.00                      |
| 5745MHz                        | Pass   | 7.10        | 6.58                | 6.67                | 9.51            | 28.90                 | 13.77                | 36.00                      |
| 5785MHz                        | Pass   | 7.10        | 6.87                | 6.76                | 9.69            | 28.90                 | 13.97                | 36.00                      |
| 5825MHz                        | Pass   | 7.10        | 6.90                | 6.54                | 9.69            | 28.90                 | 14.00                | 36.00                      |
| 802.11n HT40_Nss1,(MCS0)_2TX   | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5190MHz                        | Pass   | 7.10        | 1.42                | 1.22                | 4.31            | 15.90                 | 8.52                 | 23.00                      |
| 5230MHz                        | Pass   | 7.10        | 5.16                | 5.51                | 8.34            | 15.90                 | 12.61                | 23.00                      |
| 5755MHz                        | Pass   | 7.10        | 4.29                | 3.82                | 6.91            | 28.90                 | 11.39                | 36.00                      |
| 5795MHz                        | Pass   | 7.10        | 4.24                | 3.87                | 6.96            | 28.90                 | 11.34                | 36.00                      |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5180MHz                        | Pass   | 7.10        | 5.79                | 5.86                | 8.76            | 15.90                 | 12.96                | 23.00                      |
| 5200MHz                        | Pass   | 7.10        | 7.98                | 8.40                | 11.12           | 15.90                 | 15.50                | 23.00                      |
| 5240MHz                        | Pass   | 7.10        | 7.73                | 8.36                | 11.04           | 15.90                 | 15.46                | 23.00                      |
| 5745MHz                        | Pass   | 7.10        | 6.40                | 6.62                | 9.46            | 28.90                 | 13.72                | 36.00                      |
| 5785MHz                        | Pass   | 7.10        | 6.75                | 6.90                | 9.77            | 28.90                 | 14.00                | 36.00                      |
| 5825MHz                        | Pass   | 7.10        | 6.55                | 6.44                | 9.45            | 28.90                 | 13.65                | 36.00                      |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5190MHz                        | Pass   | 7.10        | 1.14                | 1.37                | 4.15            | 15.90                 | 8.47                 | 23.00                      |
| 5230MHz                        | Pass   | 7.10        | 4.98                | 5.53                | 8.20            | 15.90                 | 12.63                | 23.00                      |
| 5755MHz                        | Pass   | 7.10        | 4.15                | 3.62                | 6.82            | 28.90                 | 11.25                | 36.00                      |
| 5795MHz                        | Pass   | 7.10        | 4.20                | 3.87                | 6.95            | 28.90                 | 11.30                | 36.00                      |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5210MHz                        | Pass   | 7.10        | -2.15               | -2.12               | 0.75            | 15.90                 | 4.98                 | 23.00                      |
| 5775MHz                        | Pass   | 7.10        | 0.37                | 0.45                | 3.34            | 28.90                 | 7.55                 | 36.00                      |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5180MHz                        | Pass   | 7.10        | 5.72                | 5.77                | 8.68            | 15.90                 | 12.87                | 23.00                      |
| 5200MHz                        | Pass   | 7.10        | 7.97                | 8.35                | 11.10           | 15.90                 | 15.45                | 23.00                      |
| 5240MHz                        | Pass   | 7.10        | 7.68                | 8.34                | 10.97           | 15.90                 | 15.44                | 23.00                      |
| 5745MHz                        | Pass   | 7.10        | 6.58                | 6.37                | 9.43            | 28.90                 | 13.68                | 36.00                      |
| 5785MHz                        | Pass   | 7.10        | 6.74                | 6.84                | 9.77            | 28.90                 | 13.94                | 36.00                      |
| 5825MHz                        | Pass   | 7.10        | 6.60                | 6.35                | 9.42            | 28.90                 | 13.70                | 36.00                      |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5190MHz                        | Pass   | 7.10        | 1.23                | 1.25                | 4.18            | 15.90                 | 8.35                 | 23.00                      |
| 5230MHz                        | Pass   | 7.10        | 4.99                | 5.42                | 8.18            | 15.90                 | 12.52                | 23.00                      |



## PSD\_indoor Sample 2

## Appendix D.2

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm/RBW) | Port 2<br>(dBm/RBW) | PD<br>(dBm/RBW) | PD Limit<br>(dBm/RBW) | EIRP PD<br>(dBm/RBW) | EIRP PD Limit<br>(dBm/RBW) |
|--------------------------------|--------|-------------|---------------------|---------------------|-----------------|-----------------------|----------------------|----------------------------|
| 5755MHz                        | Pass   | 7.10        | 4.28                | 3.73                | 6.99            | 28.90                 | 11.38                | 36.00                      |
| 5795MHz                        | Pass   | 7.10        | 4.15                | 3.50                | 6.78            | 28.90                 | 11.25                | 36.00                      |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5210MHz                        | Pass   | 7.10        | -1.96               | -1.96               | 0.89            | 15.90                 | 5.14                 | 23.00                      |
| 5775MHz                        | Pass   | 7.10        | 0.75                | 0.63                | 3.56            | 28.90                 | 7.85                 | 36.00                      |

**DG** = Directional Gain; **RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

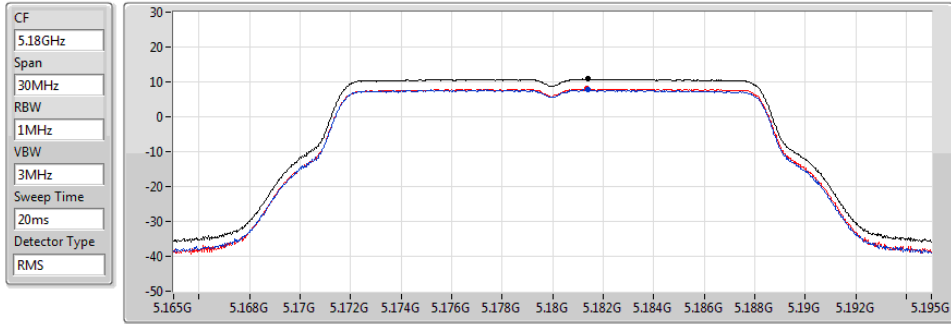
**PD** = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

### 802.11a\_Nss1,(6Mbps)\_2TX

5180MHz

PSD

15/07/2020



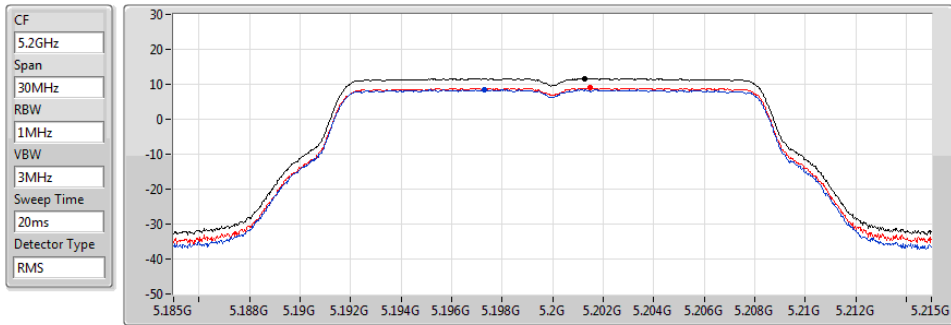
| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 10.86     | 10.86     | 7.74      | 8.01      |

### 802.11a\_Nss1,(6Mbps)\_2TX

5200MHz

PSD

16/07/2020



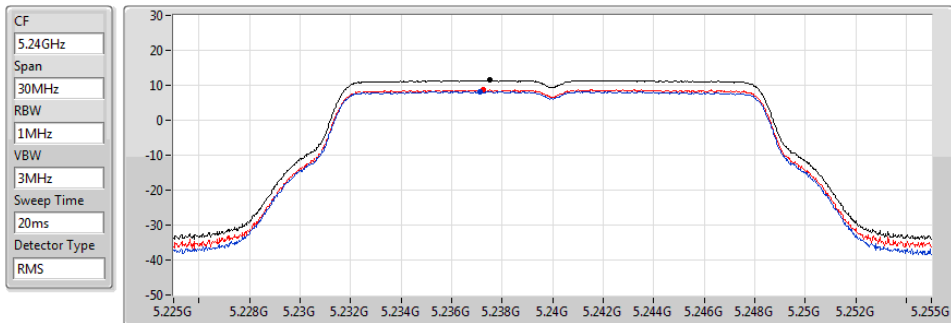
| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 11.64     | 11.64     | 8.43      | 8.95      |

### 802.11a\_Nss1,(6Mbps)\_2TX

5240MHz

PSD

16/07/2020



| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 11.42     | 11.42     | 8.25      | 8.76      |

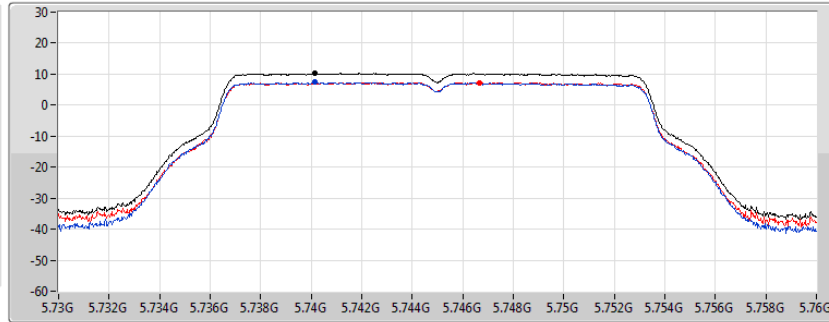
### 802.11a\_Nss1,(6Mbps)\_2TX

5745MHz

PSD

16/07/2020

CF  
5.745GHz  
Span  
30MHz  
RBW  
500kHz  
VBW  
3MHz  
Sweep Time  
20ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2

| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 10.20    | 10.20    | 7.34     | 7.25     |

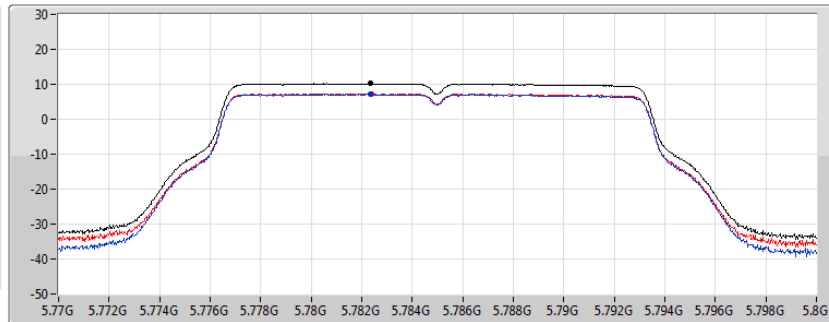
### 802.11a\_Nss1,(6Mbps)\_2TX

5785MHz

PSD

16/07/2020

CF  
5.785GHz  
Span  
30MHz  
RBW  
500kHz  
VBW  
3MHz  
Sweep Time  
20ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2

| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 10.22    | 10.22    | 7.21     | 7.34     |

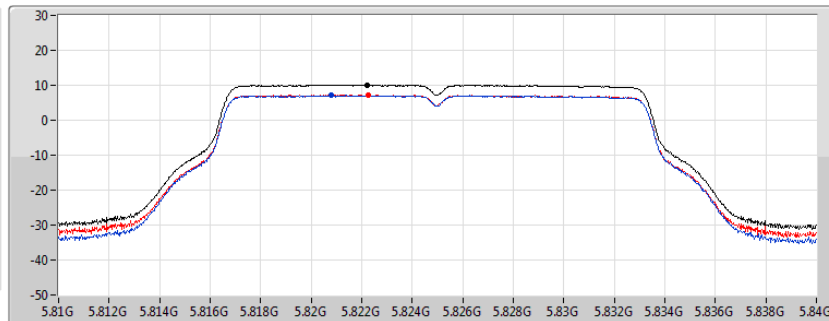
### 802.11a\_Nss1,(6Mbps)\_2TX

5825MHz

PSD

16/07/2020

CF  
5.825GHz  
Span  
30MHz  
RBW  
500kHz  
VBW  
3MHz  
Sweep Time  
20ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2

| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 10.15    | 10.15    | 7.11     | 7.26     |

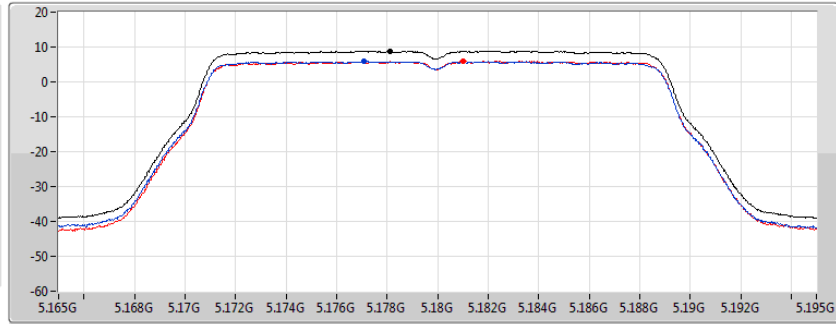
### 802.11n HT20\_Nss1,(MCS0)\_2TX

### PSD

5180MHz

22/07/2020

CF  
5.18GHz  
Span  
30MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
20ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2

| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 8.81     | 8.81     | 5.98     | 5.98     |

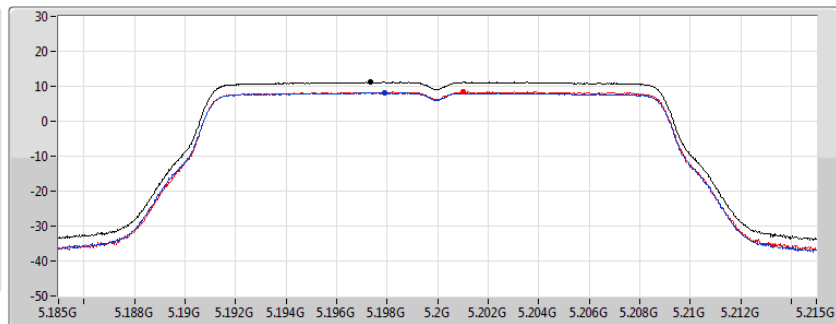
### 802.11n HT20\_Nss1,(MCS0)\_2TX

### PSD

5200MHz

22/07/2020

CF  
5.2GHz  
Span  
30MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
20ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2

| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 11.16    | 11.16    | 8.15     | 8.42     |

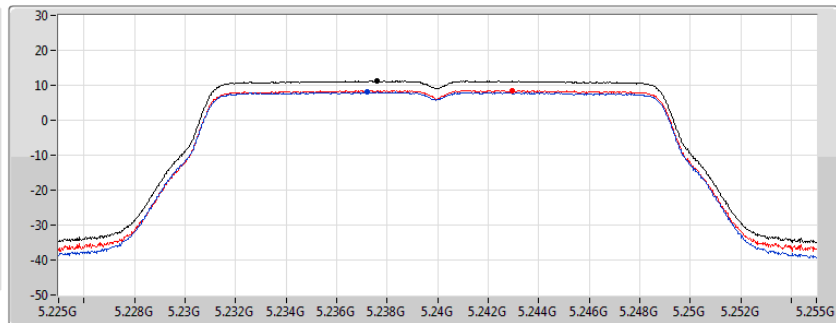
### 802.11n HT20\_Nss1,(MCS0)\_2TX

### PSD

5240MHz

22/07/2020

CF  
5.24GHz  
Span  
30MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
20ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2

| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 11.22    | 11.22    | 8.02     | 8.56     |

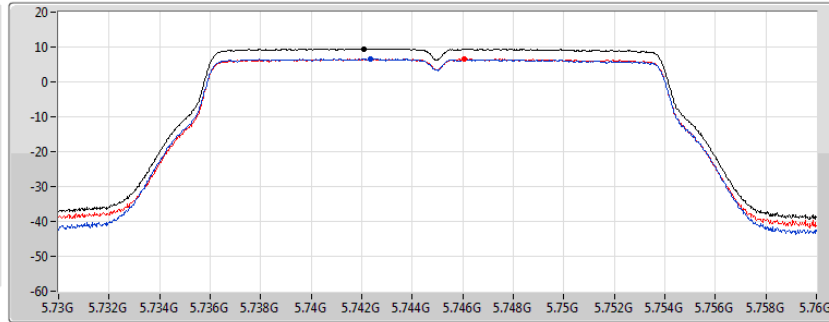
### 802.11n HT20\_Nss1,(MCS0)\_2TX

### PSD

5745MHz

22/07/2020

CF  
5.745GHz  
Span  
30MHz  
RBW  
500kHz  
VBW  
3MHz  
Sweep Time  
20ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2

| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 9.51     | 9.51     | 6.58     | 6.67     |

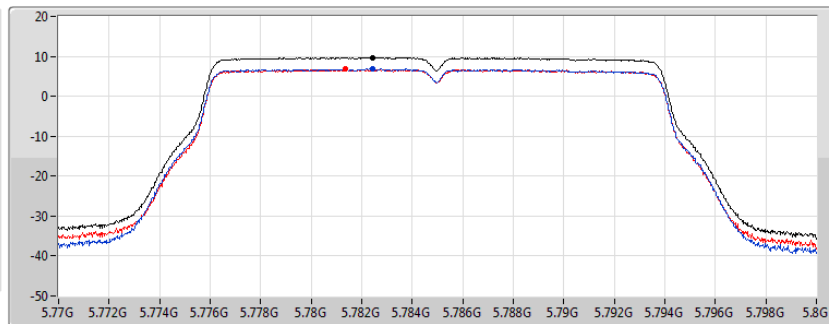
### 802.11n HT20\_Nss1,(MCS0)\_2TX

### PSD

5785MHz

22/07/2020

CF  
5.785GHz  
Span  
30MHz  
RBW  
500kHz  
VBW  
3MHz  
Sweep Time  
20ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2

| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 9.69     | 9.69     | 6.87     | 6.76     |

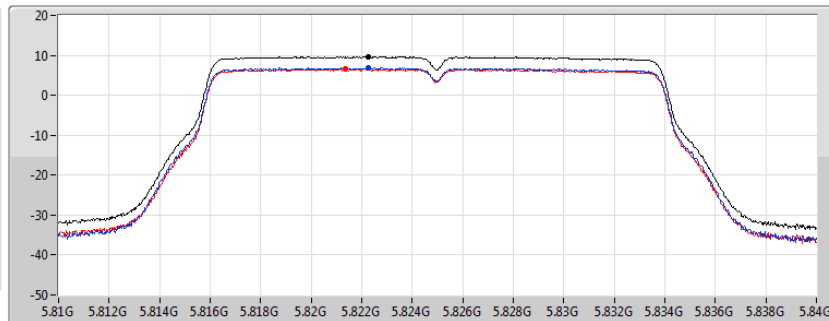
### 802.11n HT20\_Nss1,(MCS0)\_2TX

### PSD

5825MHz

22/07/2020

CF  
5.825GHz  
Span  
30MHz  
RBW  
500kHz  
VBW  
3MHz  
Sweep Time  
20ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2

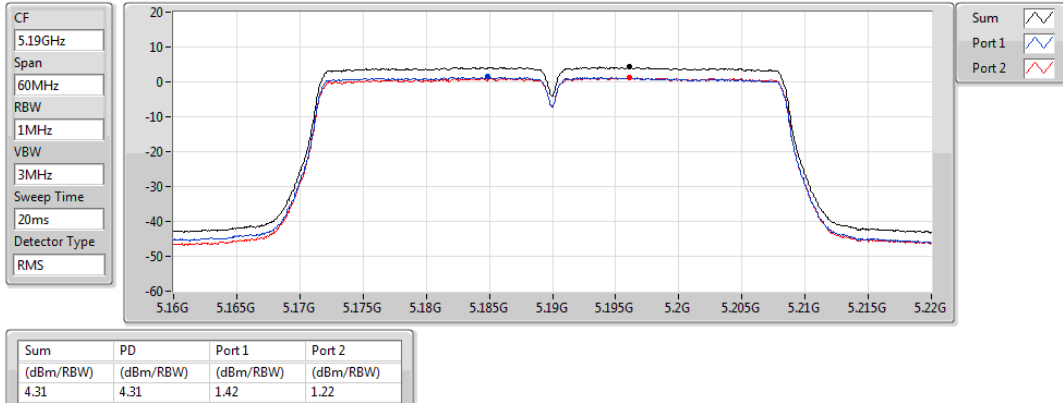
| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 9.69     | 9.69     | 6.90     | 6.54     |

### 802.11n HT40\_Nss1,(MCS0)\_2TX

### PSD

5190MHz

22/07/2020

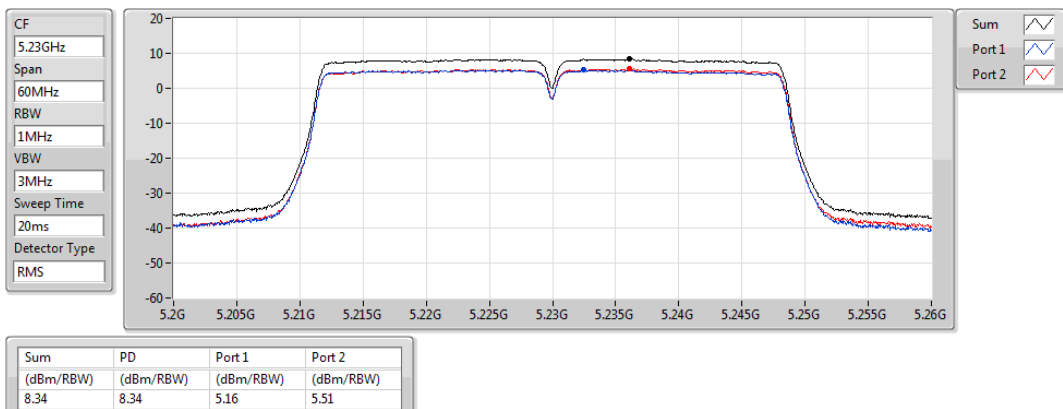


### 802.11n HT40\_Nss1,(MCS0)\_2TX

### PSD

5230MHz

22/07/2020

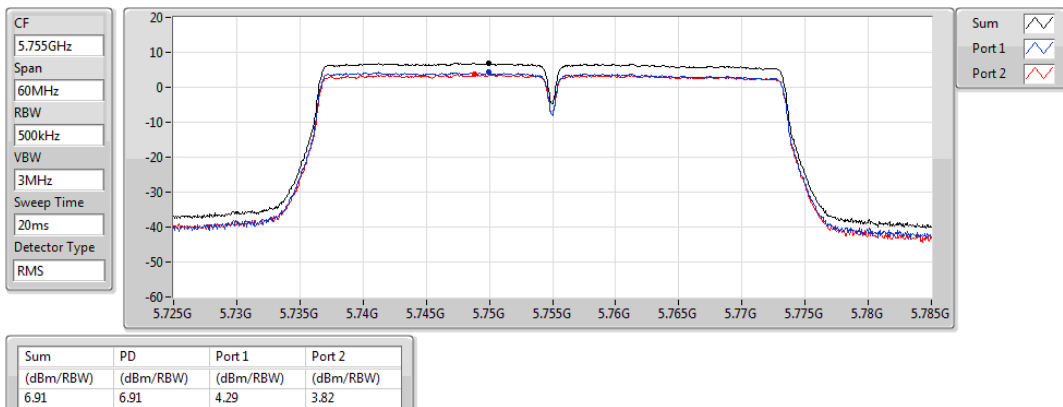


### 802.11n HT40\_Nss1,(MCS0)\_2TX

### PSD

5755MHz

22/07/2020

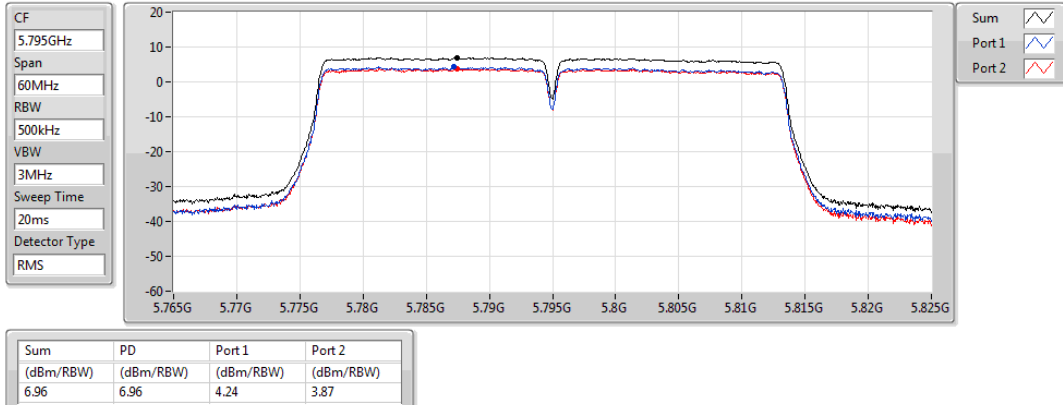


### 802.11n HT40\_Nss1,(MCS0)\_2TX

### PSD

5795MHz

22/07/2020

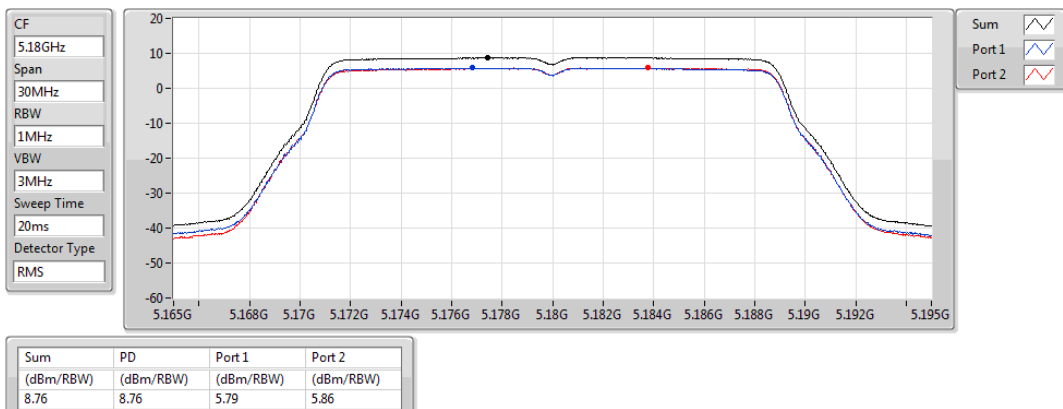


### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

### PSD

5180MHz

16/07/2020

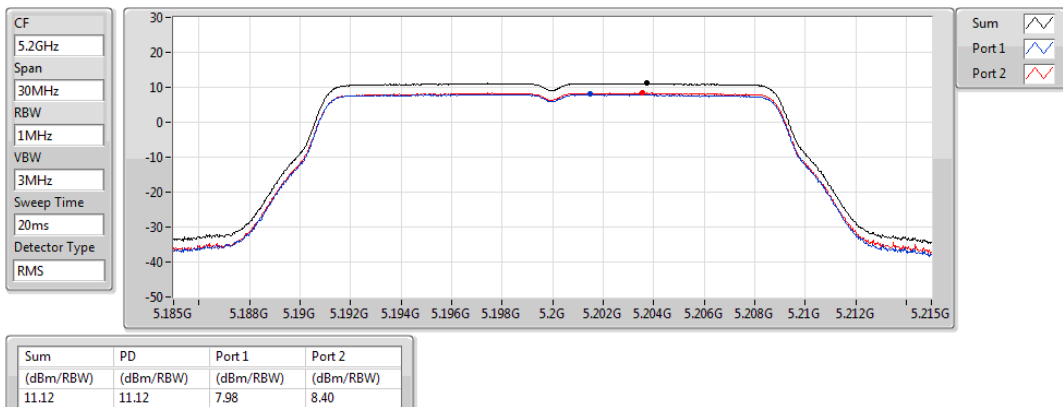


### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

### PSD

5200MHz

16/07/2020

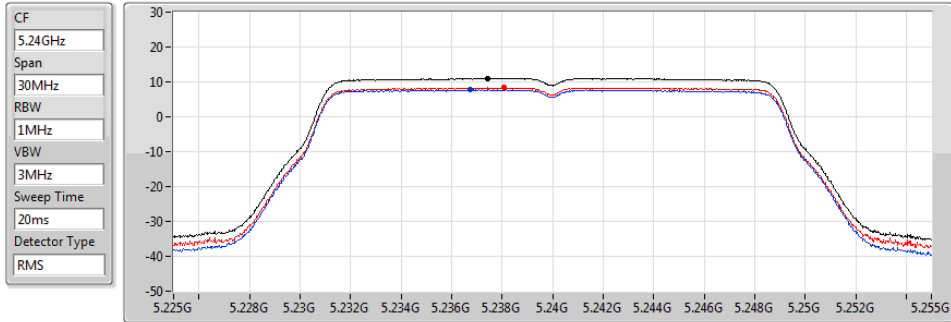


### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

5240MHz

PSD

16/07/2020



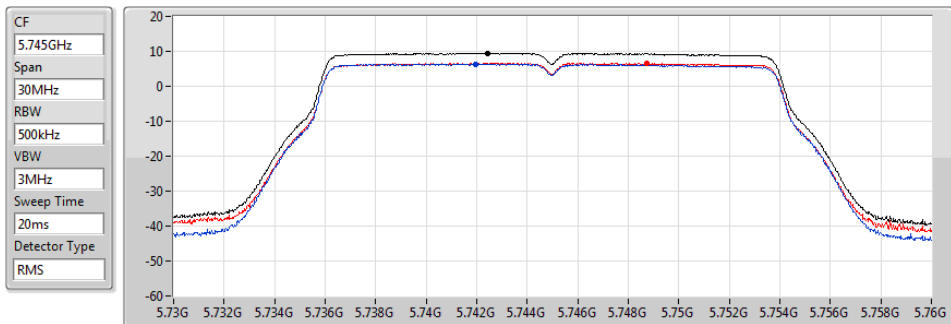
| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 11.04    | 11.04    | 7.73     | 8.36     |

### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

5745MHz

PSD

16/07/2020



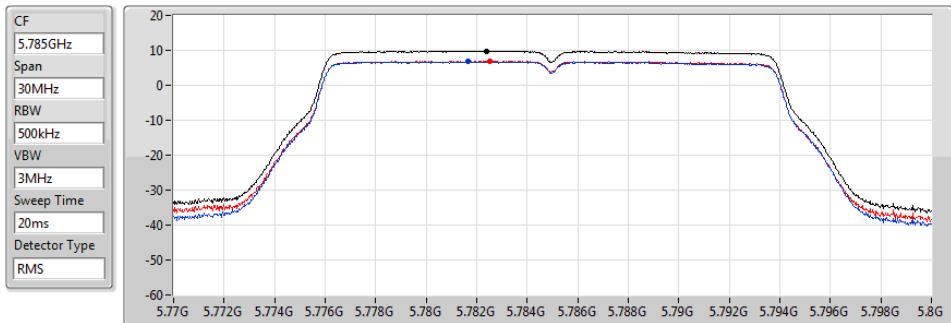
| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 9.46     | 9.46     | 6.40     | 6.62     |

### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

5785MHz

PSD

16/07/2020



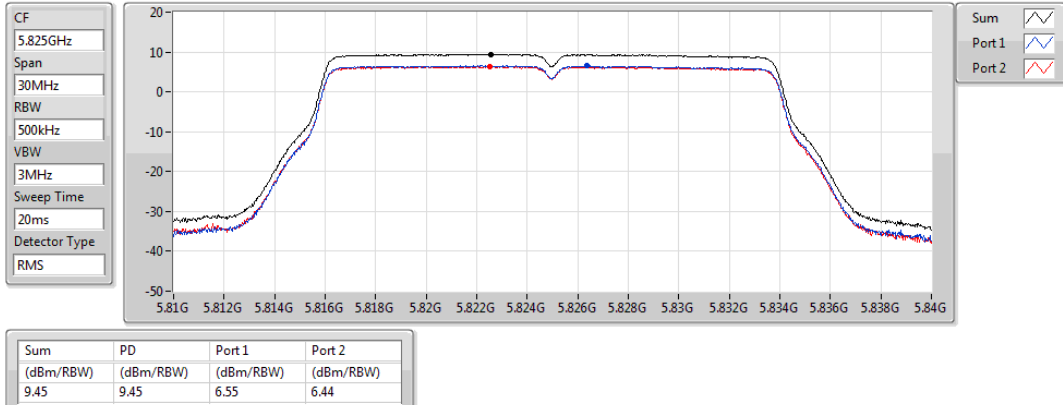
| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 9.77     | 9.77     | 6.75     | 6.90     |

### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

### PSD

5825MHz

16/07/2020

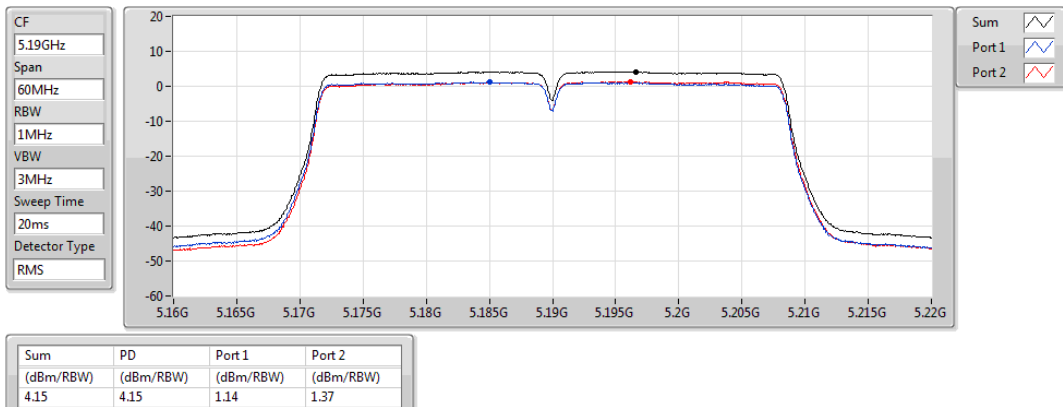


### 802.11ac VHT40\_Nss1,(MCS0)\_2TX

### PSD

5190MHz

16/07/2020

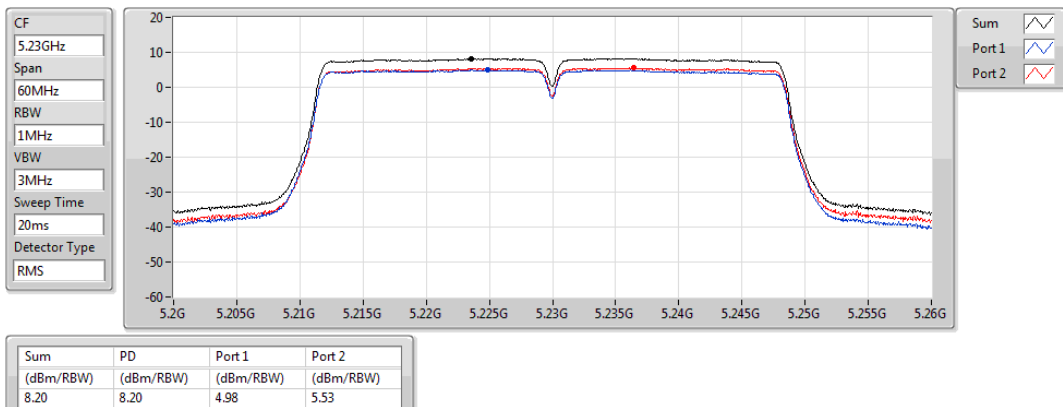


### 802.11ac VHT40\_Nss1,(MCS0)\_2TX

### PSD

5230MHz

16/07/2020

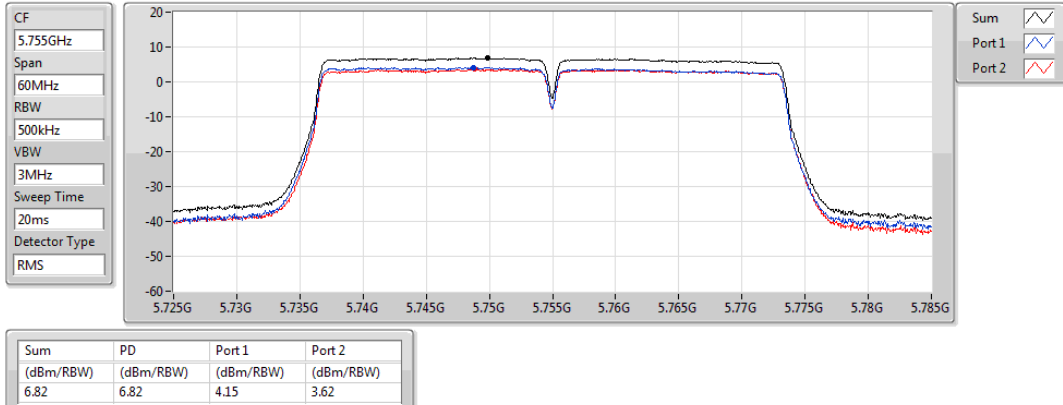


### 802.11ac VHT40\_Nss1,(MCS0)\_2TX

### PSD

5755MHz

16/07/2020

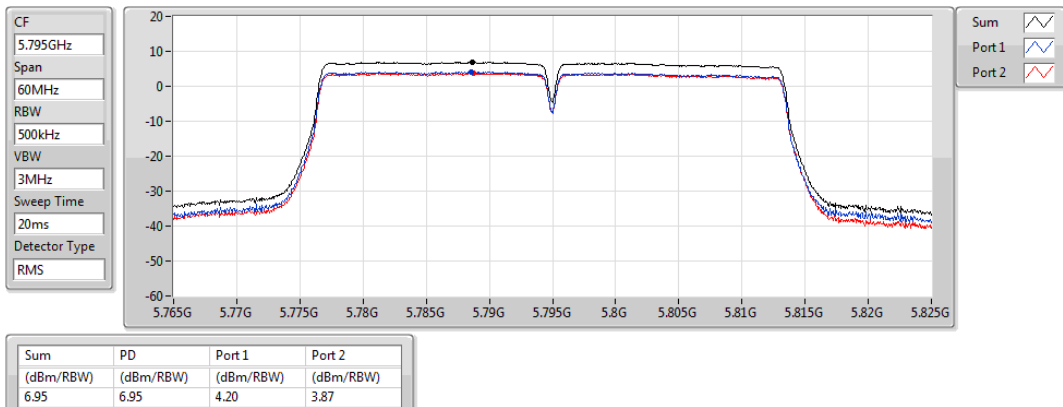


### 802.11ac VHT40\_Nss1,(MCS0)\_2TX

### PSD

5795MHz

16/07/2020

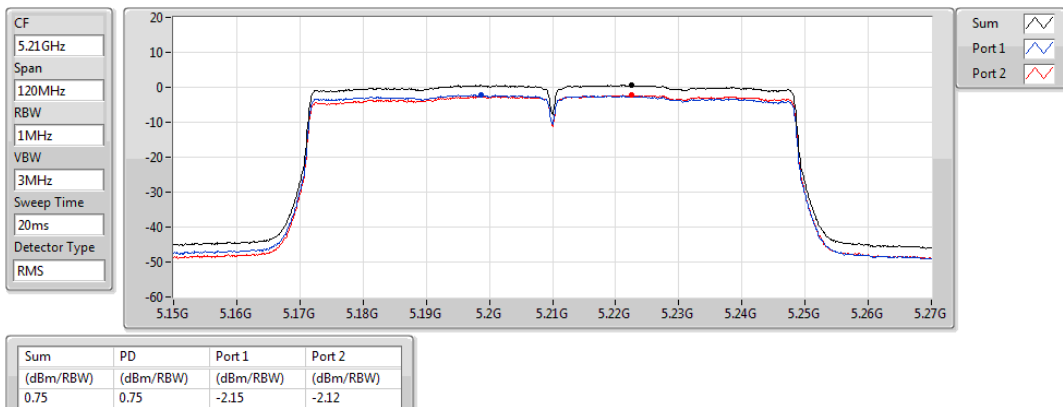


### 802.11ac VHT80\_Nss1,(MCS0)\_2TX

### PSD

5210MHz

16/07/2020

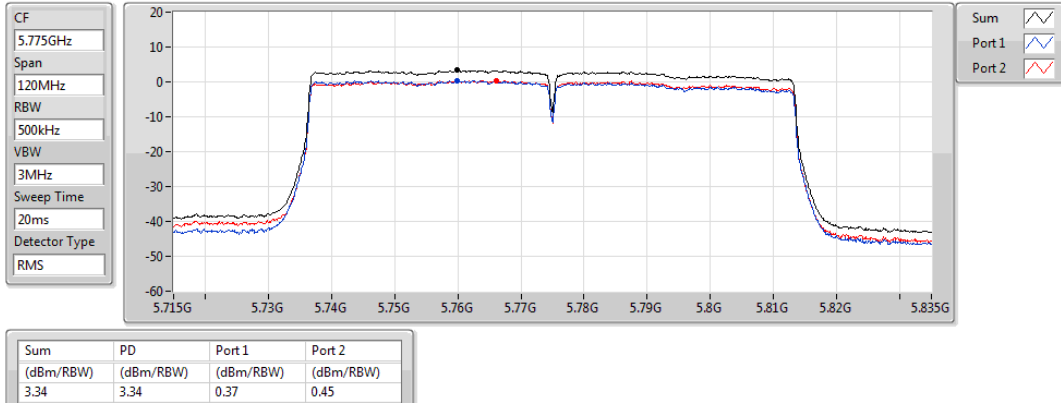


### 802.11ac VHT80\_Nss1,(MCS0)\_2TX

### PSD

5775MHz

16/07/2020

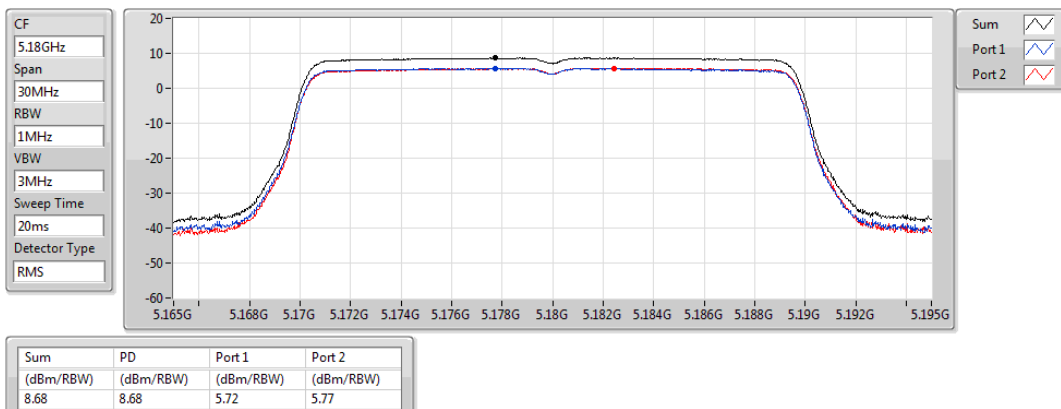


### 802.11ax HEW20\_Nss1,(MCS0)\_2TX

### PSD

5180MHz

15/07/2020

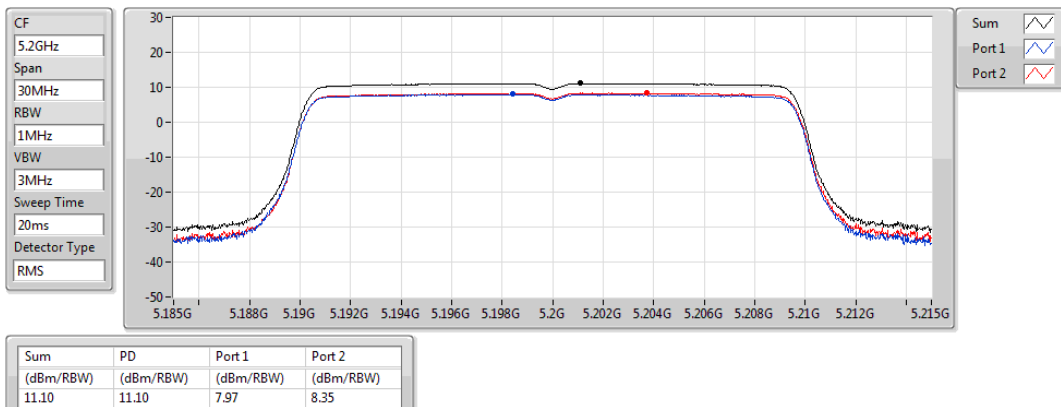


### 802.11ax HEW20\_Nss1,(MCS0)\_2TX

### PSD

5200MHz

16/07/2020

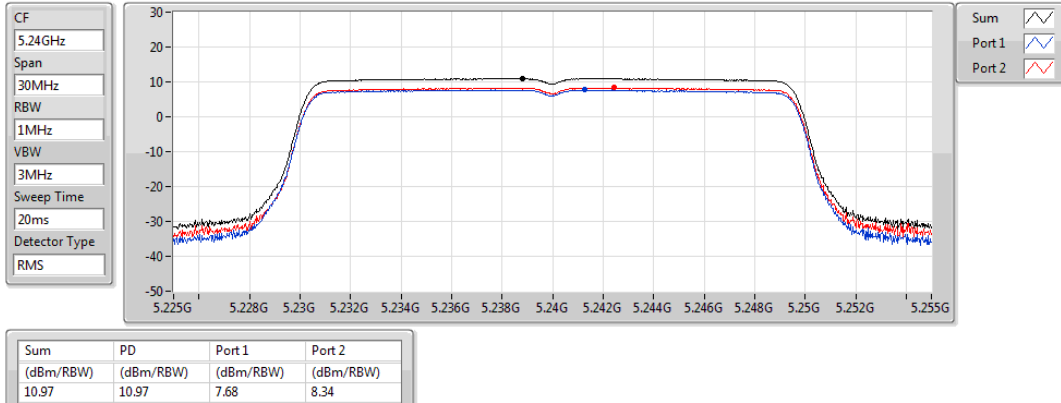


### 802.11ax HEW20\_Nss1,(MCS0)\_2TX

### PSD

5240MHz

16/07/2020

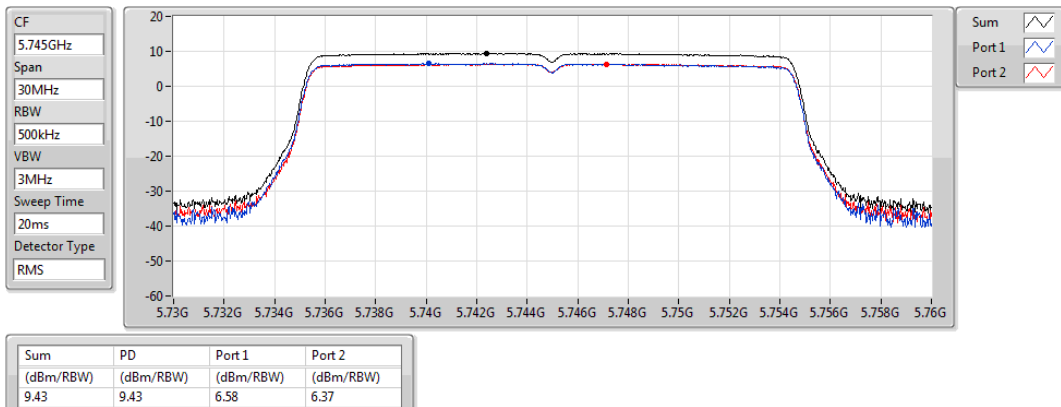


### 802.11ax HEW20\_Nss1,(MCS0)\_2TX

### PSD

5745MHz

16/07/2020

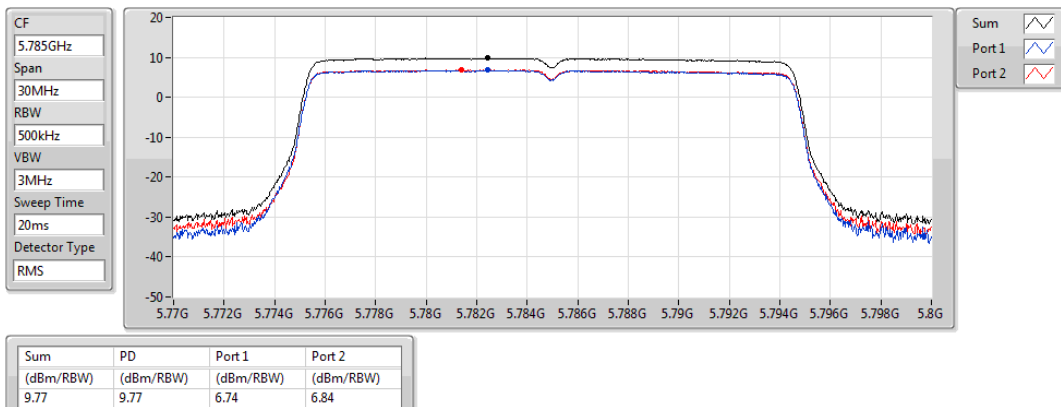


### 802.11ax HEW20\_Nss1,(MCS0)\_2TX

### PSD

5785MHz

16/07/2020



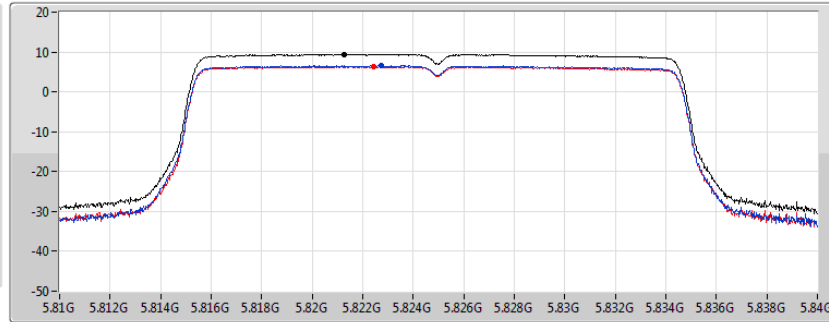
### 802.11ax HEW20\_Nss1,(MCS0)\_2TX

### PSD

5825MHz

16/07/2020

CF  
5.825GHz  
Span  
30MHz  
RBW  
500kHz  
VBW  
3MHz  
Sweep Time  
20ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2

| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 9.42      | 9.42      | 6.60      | 6.35      |

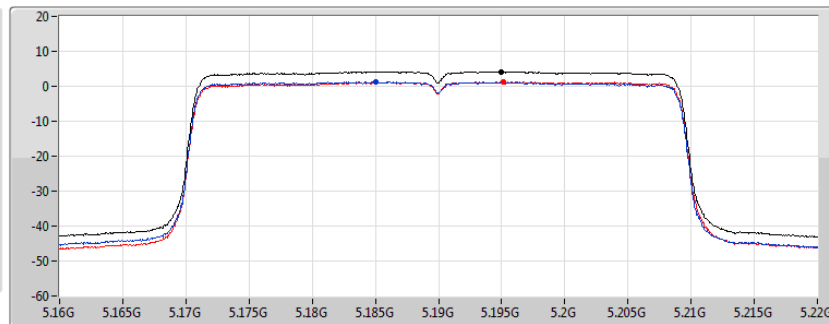
### 802.11ax HEW40\_Nss1,(MCS0)\_2TX

### PSD

5190MHz

16/07/2020

CF  
5.19GHz  
Span  
60MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
20ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2

| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 4.18      | 4.18      | 1.23      | 1.25      |

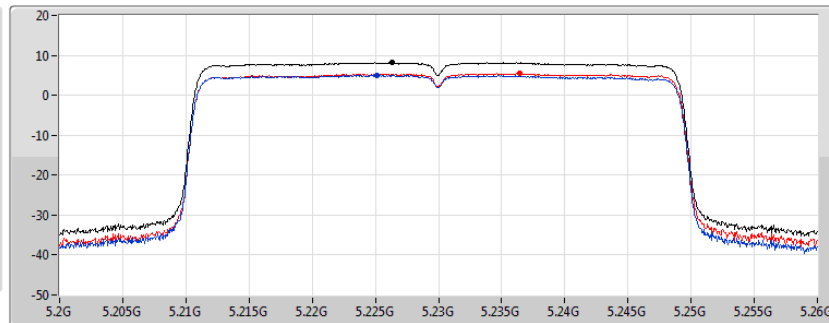
### 802.11ax HEW40\_Nss1,(MCS0)\_2TX

### PSD

5230MHz

16/07/2020

CF  
5.23GHz  
Span  
60MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
20ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2

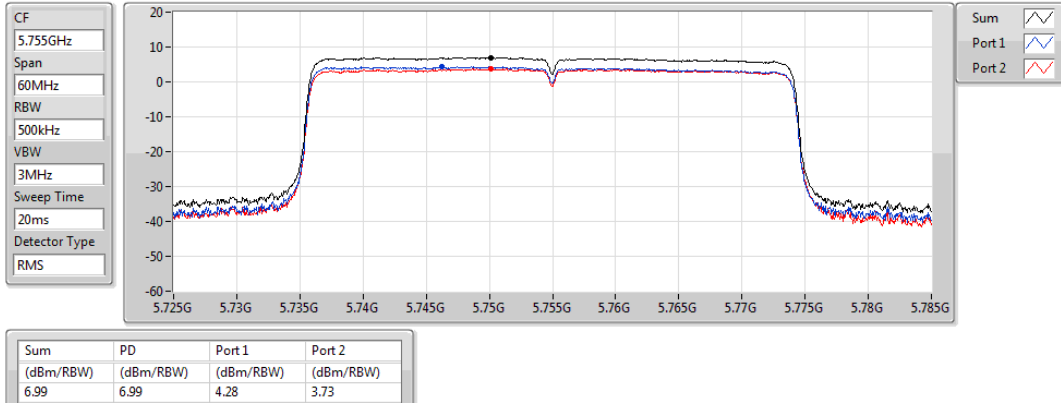
| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 8.18      | 8.18      | 4.99      | 5.42      |

### 802.11ax HEW40\_Nss1,(MCS0)\_2TX

### PSD

5755MHz

16/07/2020

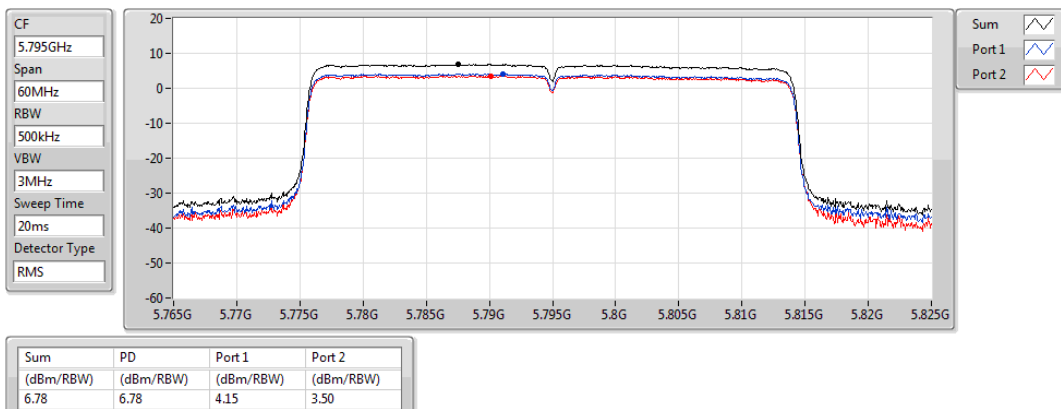


### 802.11ax HEW40\_Nss1,(MCS0)\_2TX

### PSD

5795MHz

16/07/2020

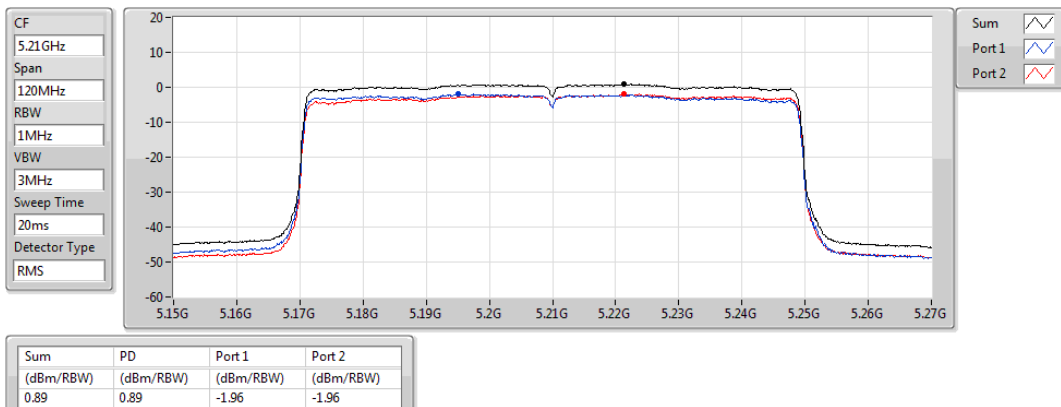


### 802.11ax HEW80\_Nss1,(MCS0)\_2TX

### PSD

5210MHz

16/07/2020

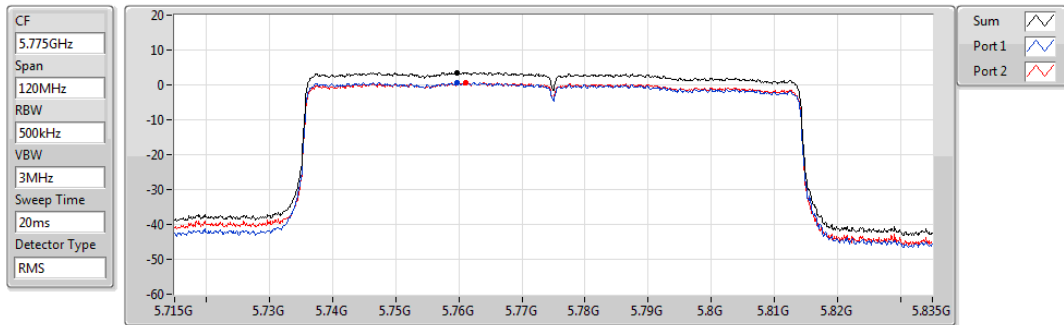


## 802.11ax HEW80\_Nss1,(MCS0)\_2TX

## PSD

5775MHz

16/07/2020



| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 3.56     | 3.56     | 0.75     | 0.63     |

**Summary**

| Mode                           | PD<br>(dBm/RBW) | EIRP PD<br>(dBm/RBW) |
|--------------------------------|-----------------|----------------------|
| 5.15-5.25GHz                   | -               | -                    |
| 802.11a_Nss1,(6Mbps)_2TX       | 7.55            | 10.17                |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 7.30            | 10.03                |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 4.11            | 7.14                 |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 7.05            | 9.59                 |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 3.86            | 6.80                 |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 1.29            | 3.99                 |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 7.05            | 9.59                 |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 3.85            | 6.78                 |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 1.44            | 4.08                 |
| 5.725-5.85GHz                  | -               | -                    |
| 802.11a_Nss1,(6Mbps)_2TX       | 11.15           | 13.69                |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 10.55           | 13.36                |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 7.47            | 10.33                |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 10.57           | 13.19                |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 7.69            | 10.36                |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 3.50            | 6.35                 |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 10.60           | 13.18                |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 7.89            | 10.60                |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 3.30            | 6.15                 |

**RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

**Result**

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm/RBW) | Port 2<br>(dBm/RBW) | PD<br>(dBm/RBW) | PD Limit<br>(dBm/RBW) | EIRP PD<br>(dBm/RBW) | EIRP PD Limit<br>(dBm/RBW) |
|--------------------------------|--------|-------------|---------------------|---------------------|-----------------|-----------------------|----------------------|----------------------------|
| 802.11a_Nss1,(6Mbps)_2TX       | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5180MHz                        | Pass   | 5.40        | 4.77                | 4.38                | 7.55            | 17.00                 | 10.17                | 23.00                      |
| 5200MHz                        | Pass   | 5.40        | 4.62                | 4.56                | 7.54            | 17.00                 | 10.02                | 23.00                      |
| 5240MHz                        | Pass   | 5.40        | 4.68                | 4.48                | 7.48            | 17.00                 | 10.08                | 23.00                      |
| 5745MHz                        | Pass   | 5.40        | 8.06                | 8.29                | 11.15           | 30.00                 | 13.69                | 36.00                      |
| 5785MHz                        | Pass   | 5.40        | 7.91                | 8.10                | 10.91           | 30.00                 | 13.50                | 36.00                      |
| 5825MHz                        | Pass   | 5.40        | 7.65                | 8.17                | 10.87           | 30.00                 | 13.57                | 36.00                      |
| 802.11n HT20_Nss1,(MCS0)_2TX   | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5180MHz                        | Pass   | 5.40        | 4.24                | 3.89                | 7.05            | 17.00                 | 9.64                 | 23.00                      |
| 5200MHz                        | Pass   | 5.40        | 4.56                | 4.05                | 7.18            | 17.00                 | 9.96                 | 23.00                      |
| 5240MHz                        | Pass   | 5.40        | 4.63                | 4.17                | 7.30            | 17.00                 | 10.03                | 23.00                      |
| 5745MHz                        | Pass   | 5.40        | 7.73                | 7.42                | 10.40           | 30.00                 | 13.13                | 36.00                      |
| 5785MHz                        | Pass   | 5.40        | 7.63                | 7.26                | 10.39           | 30.00                 | 13.03                | 36.00                      |
| 5825MHz                        | Pass   | 5.40        | 7.96                | 7.40                | 10.55           | 30.00                 | 13.36                | 36.00                      |
| 802.11n HT40_Nss1,(MCS0)_2TX   | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5190MHz                        | Pass   | 5.40        | 1.57                | 0.62                | 4.05            | 17.00                 | 6.97                 | 23.00                      |
| 5230MHz                        | Pass   | 5.40        | 1.74                | 0.60                | 4.11            | 17.00                 | 7.14                 | 23.00                      |
| 5755MHz                        | Pass   | 5.40        | 4.88                | 4.20                | 7.47            | 30.00                 | 10.28                | 36.00                      |
| 5795MHz                        | Pass   | 5.40        | 4.93                | 4.22                | 7.46            | 30.00                 | 10.33                | 36.00                      |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5180MHz                        | Pass   | 5.40        | 3.88                | 3.69                | 6.74            | 17.00                 | 9.28                 | 23.00                      |
| 5200MHz                        | Pass   | 5.40        | 4.11                | 3.95                | 6.95            | 17.00                 | 9.51                 | 23.00                      |
| 5240MHz                        | Pass   | 5.40        | 4.19                | 4.01                | 7.05            | 17.00                 | 9.59                 | 23.00                      |
| 5745MHz                        | Pass   | 5.40        | 7.79                | 7.53                | 10.57           | 30.00                 | 13.19                | 36.00                      |
| 5785MHz                        | Pass   | 5.40        | 7.75                | 7.53                | 10.57           | 30.00                 | 13.15                | 36.00                      |
| 5825MHz                        | Pass   | 5.40        | 7.70                | 7.35                | 10.47           | 30.00                 | 13.10                | 36.00                      |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5190MHz                        | Pass   | 5.40        | 1.24                | 0.51                | 3.77            | 17.00                 | 6.64                 | 23.00                      |
| 5230MHz                        | Pass   | 5.40        | 1.40                | 0.49                | 3.86            | 17.00                 | 6.80                 | 23.00                      |
| 5755MHz                        | Pass   | 5.40        | 4.96                | 4.56                | 7.69            | 30.00                 | 10.36                | 36.00                      |
| 5795MHz                        | Pass   | 5.40        | 4.71                | 4.16                | 7.41            | 30.00                 | 10.11                | 36.00                      |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5210MHz                        | Pass   | 5.40        | -1.41               | -1.49               | 1.29            | 17.00                 | 3.99                 | 23.00                      |
| 5775MHz                        | Pass   | 5.40        | 0.95                | -0.00               | 3.50            | 30.00                 | 6.35                 | 36.00                      |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5180MHz                        | Pass   | 5.40        | 3.94                | 3.74                | 6.77            | 17.00                 | 9.34                 | 23.00                      |
| 5200MHz                        | Pass   | 5.40        | 4.17                | 3.84                | 6.95            | 17.00                 | 9.57                 | 23.00                      |
| 5240MHz                        | Pass   | 5.40        | 4.19                | 4.01                | 7.05            | 17.00                 | 9.59                 | 23.00                      |
| 5745MHz                        | Pass   | 5.40        | 7.46                | 7.78                | 10.60           | 30.00                 | 13.18                | 36.00                      |
| 5785MHz                        | Pass   | 5.40        | 7.36                | 7.70                | 10.51           | 30.00                 | 13.10                | 36.00                      |
| 5825MHz                        | Pass   | 5.40        | 7.39                | 7.66                | 10.53           | 30.00                 | 13.06                | 36.00                      |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5190MHz                        | Pass   | 5.40        | 1.38                | 0.49                | 3.85            | 17.00                 | 6.78                 | 23.00                      |
| 5230MHz                        | Pass   | 5.40        | 1.33                | 0.41                | 3.80            | 17.00                 | 6.73                 | 23.00                      |



## PSD\_outdoor Sample 1

## Appendix D.3

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm/RBW) | Port 2<br>(dBm/RBW) | PD<br>(dBm/RBW) | PD Limit<br>(dBm/RBW) | EIRP PD<br>(dBm/RBW) | EIRP PD Limit<br>(dBm/RBW) |
|--------------------------------|--------|-------------|---------------------|---------------------|-----------------|-----------------------|----------------------|----------------------------|
| 5755MHz                        | Pass   | 5.40        | 5.20                | 4.71                | 7.89            | 30.00                 | 10.60                | 36.00                      |
| 5795MHz                        | Pass   | 5.40        | 4.96                | 4.27                | 7.55            | 30.00                 | 10.36                | 36.00                      |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5210MHz                        | Pass   | 5.40        | -1.32               | -1.46               | 1.44            | 17.00                 | 4.08                 | 23.00                      |
| 5775MHz                        | Pass   | 5.40        | 0.75                | -0.08               | 3.30            | 30.00                 | 6.15                 | 36.00                      |

**DG** = Directional Gain; **RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

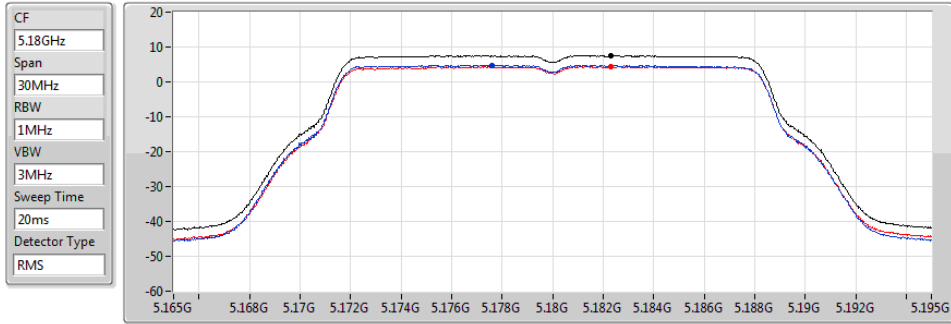
**PD** = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

### 802.11a\_Nss1,(6Mbps)\_2TX

5180MHz

PSD

20/07/2020



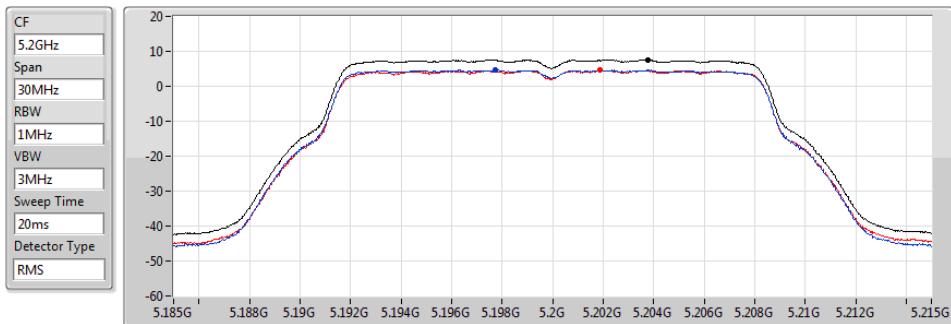
| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 7.55      | 7.55      | 4.77      | 4.38      |

### 802.11a\_Nss1,(6Mbps)\_2TX

5200MHz

PSD

20/07/2020



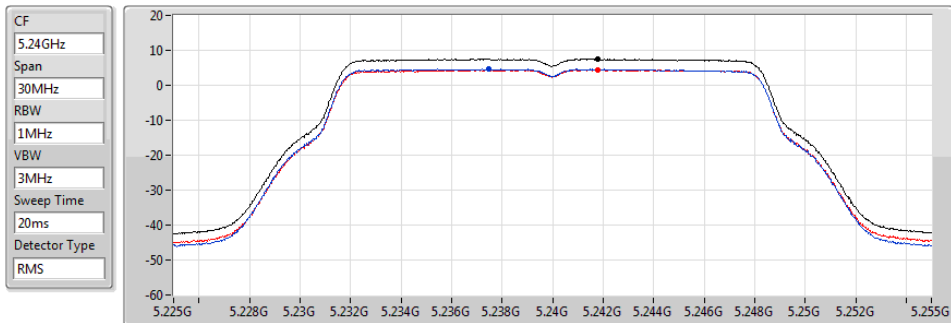
| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 7.54      | 7.54      | 4.62      | 4.56      |

### 802.11a\_Nss1,(6Mbps)\_2TX

5240MHz

PSD

20/07/2020



| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 7.48      | 7.48      | 4.68      | 4.48      |

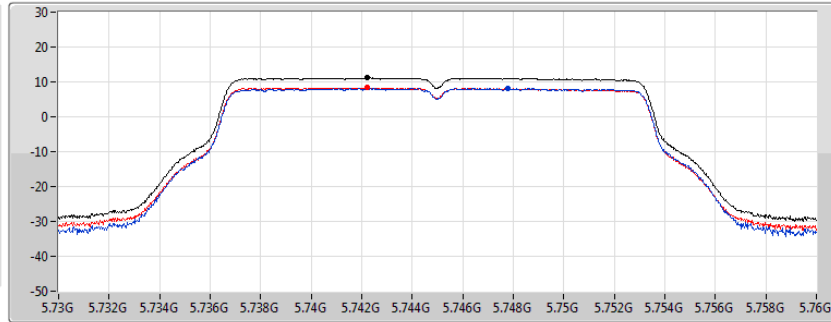
### 802.11a\_Nss1,(6Mbps)\_2TX

5745MHz

PSD

17/07/2020

CF  
5.745GHz  
Span  
30MHz  
RBW  
500kHz  
VBW  
3MHz  
Sweep Time  
20ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2

| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 11.15    | 11.15    | 8.06     | 8.29     |

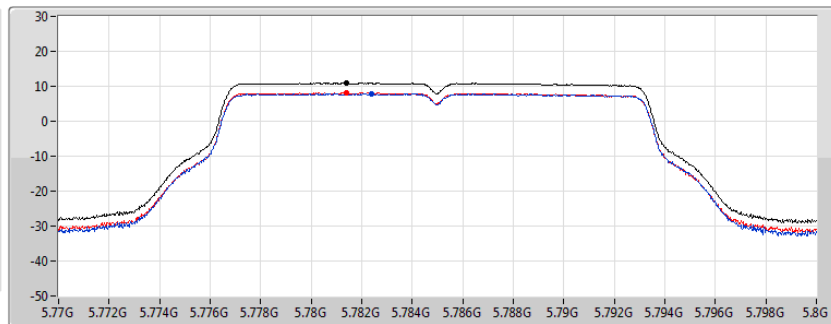
### 802.11a\_Nss1,(6Mbps)\_2TX

5785MHz

PSD

17/07/2020

CF  
5.785GHz  
Span  
30MHz  
RBW  
500kHz  
VBW  
3MHz  
Sweep Time  
20ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2

| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 10.91    | 10.91    | 7.91     | 8.10     |

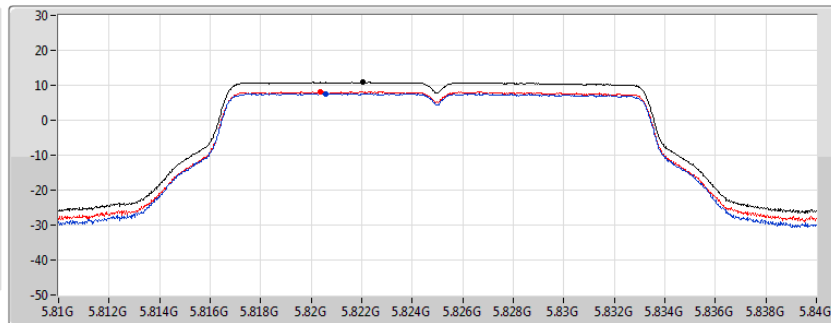
### 802.11a\_Nss1,(6Mbps)\_2TX

5825MHz

PSD

17/07/2020

CF  
5.825GHz  
Span  
30MHz  
RBW  
500kHz  
VBW  
3MHz  
Sweep Time  
20ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2

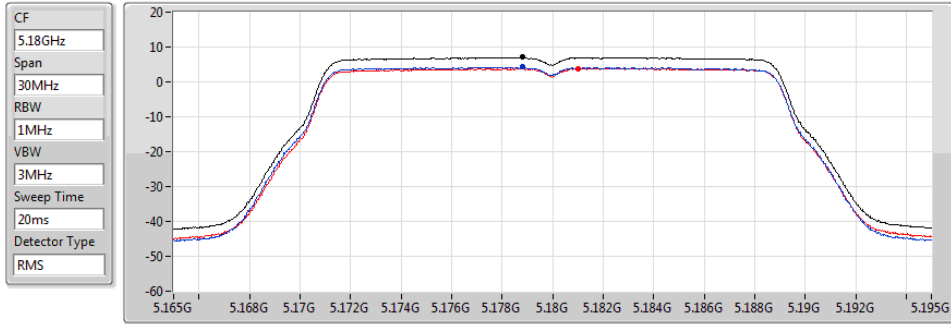
| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 10.87    | 10.87    | 7.65     | 8.17     |

### 802.11n HT20\_Nss1,(MCS0)\_2TX

### PSD

5180MHz

22/07/2020



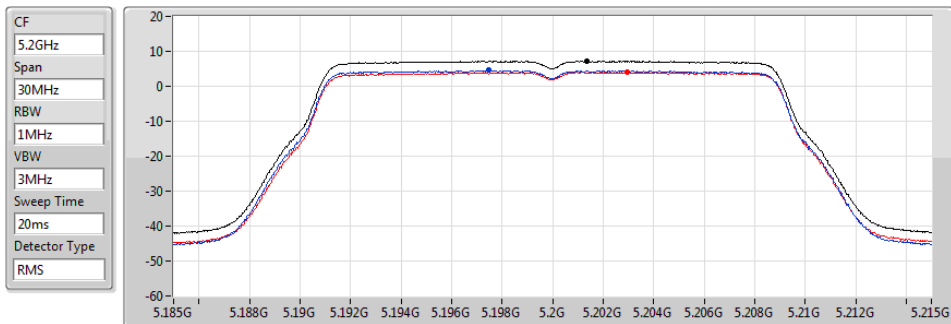
| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 7.05     | 7.05     | 4.24     | 3.89     |

### 802.11n HT20\_Nss1,(MCS0)\_2TX

### PSD

5200MHz

22/07/2020



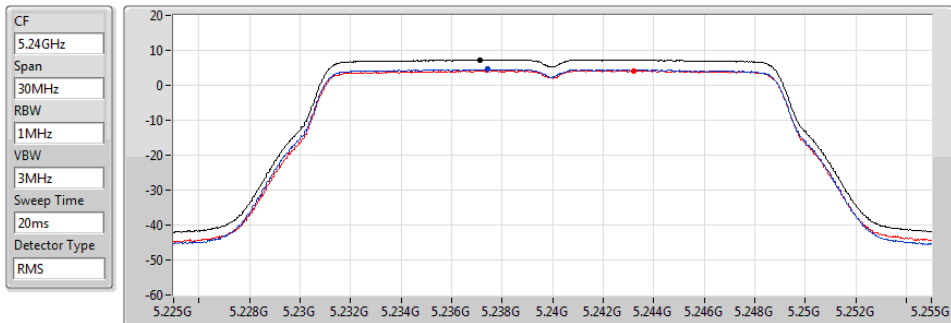
| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 7.18     | 7.18     | 4.56     | 4.05     |

### 802.11n HT20\_Nss1,(MCS0)\_2TX

### PSD

5240MHz

22/07/2020



| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 7.30     | 7.30     | 4.63     | 4.17     |

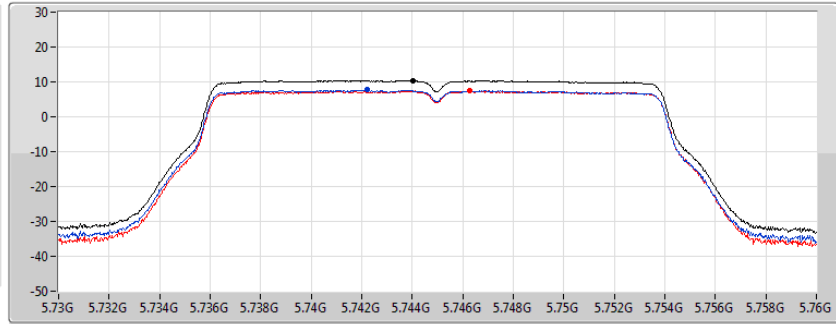
### 802.11n HT20\_Nss1,(MCS0)\_2TX

5745MHz

PSD

22/07/2020

CF  
5.745GHz  
Span  
30MHz  
RBW  
500kHz  
VBW  
3MHz  
Sweep Time  
20ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2

| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 10.40    | 10.40    | 7.73     | 7.42     |

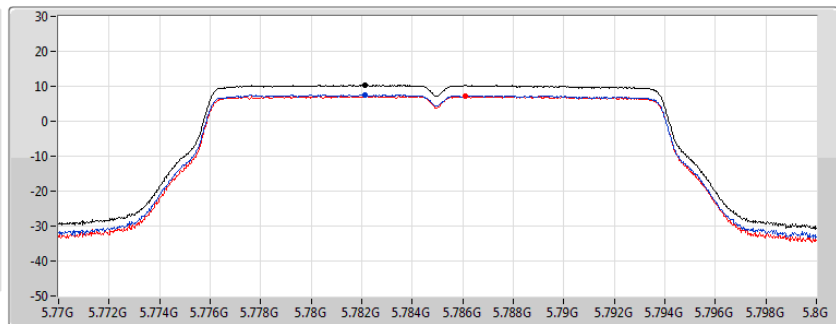
### 802.11n HT20\_Nss1,(MCS0)\_2TX

5785MHz

PSD

22/07/2020

CF  
5.785GHz  
Span  
30MHz  
RBW  
500kHz  
VBW  
3MHz  
Sweep Time  
20ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2

| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 10.39    | 10.39    | 7.63     | 7.26     |

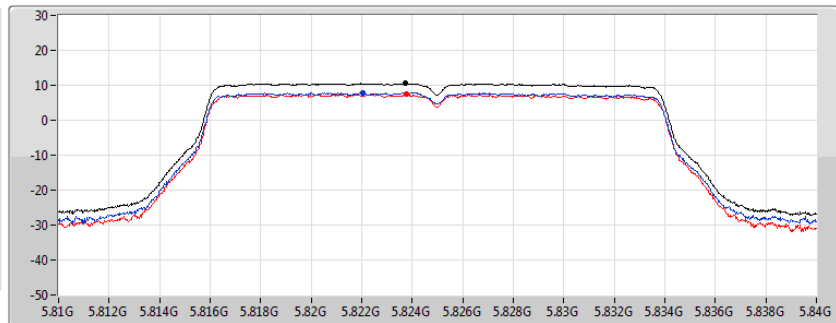
### 802.11n HT20\_Nss1,(MCS0)\_2TX

5825MHz

PSD

22/07/2020

CF  
5.825GHz  
Span  
30MHz  
RBW  
500kHz  
VBW  
3MHz  
Sweep Time  
20ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2

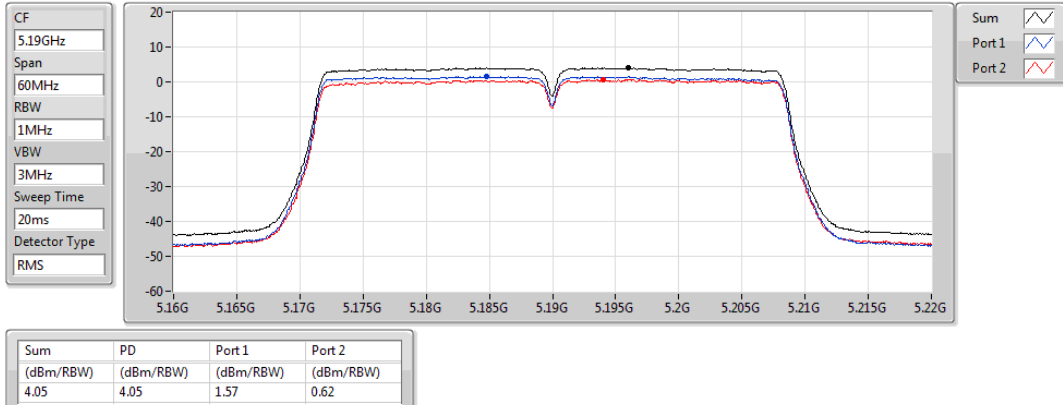
| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 10.55    | 10.55    | 7.96     | 7.40     |

### 802.11n HT40\_Nss1,(MCS0)\_2TX

### PSD

5190MHz

22/07/2020

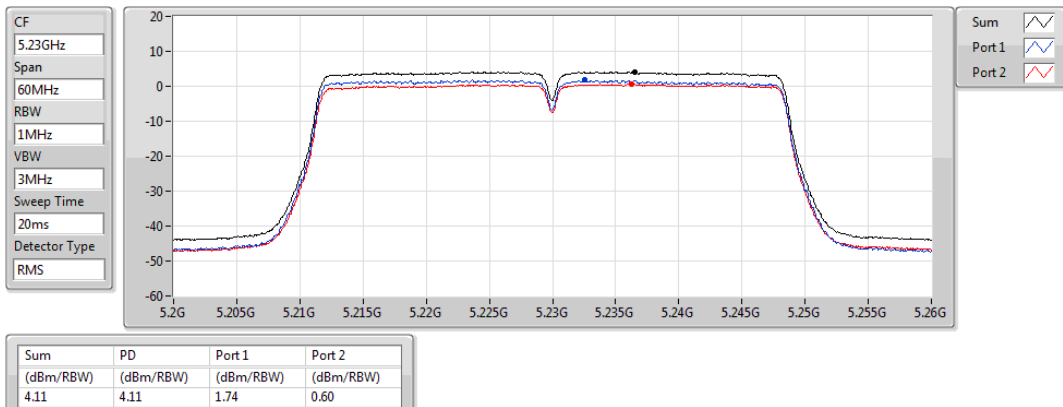


### 802.11n HT40\_Nss1,(MCS0)\_2TX

### PSD

5230MHz

22/07/2020

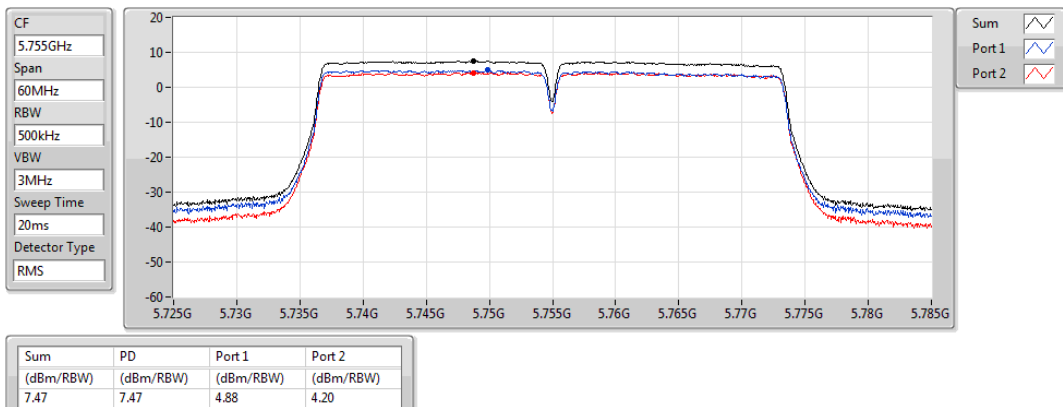


### 802.11n HT40\_Nss1,(MCS0)\_2TX

### PSD

5755MHz

22/07/2020

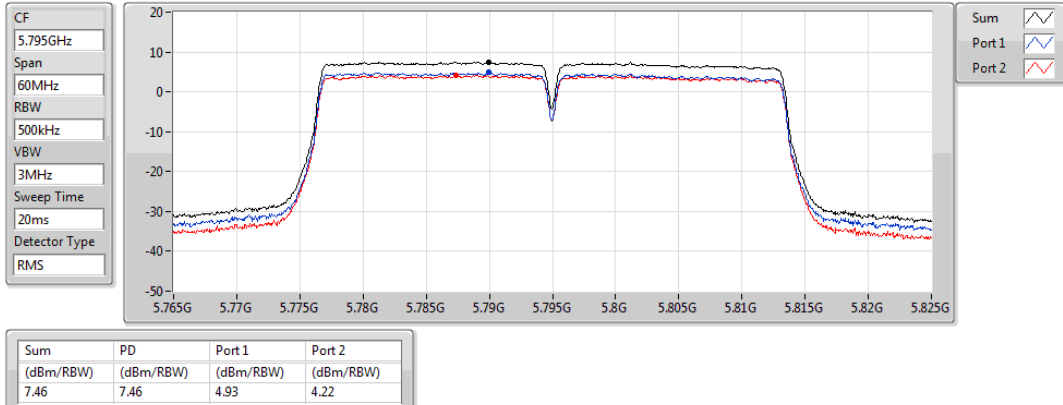


### 802.11n HT40\_Nss1,(MCS0)\_2TX

### PSD

5795MHz

22/07/2020

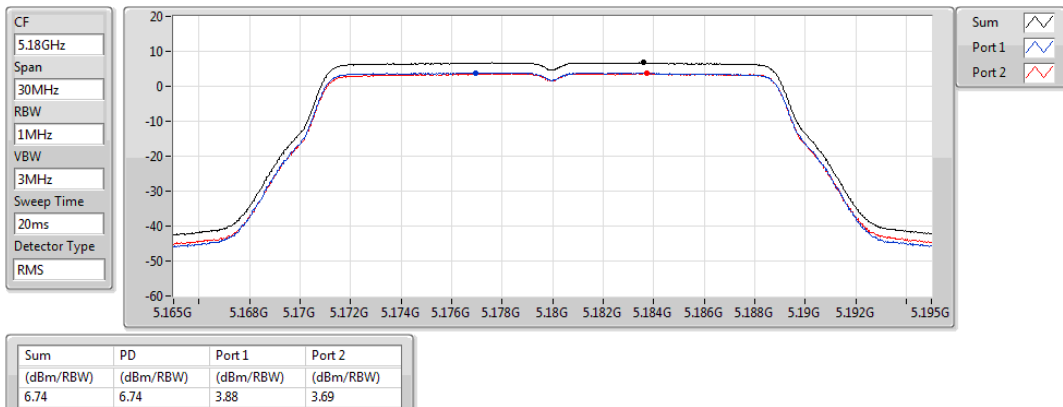


### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

### PSD

5180MHz

20/07/2020

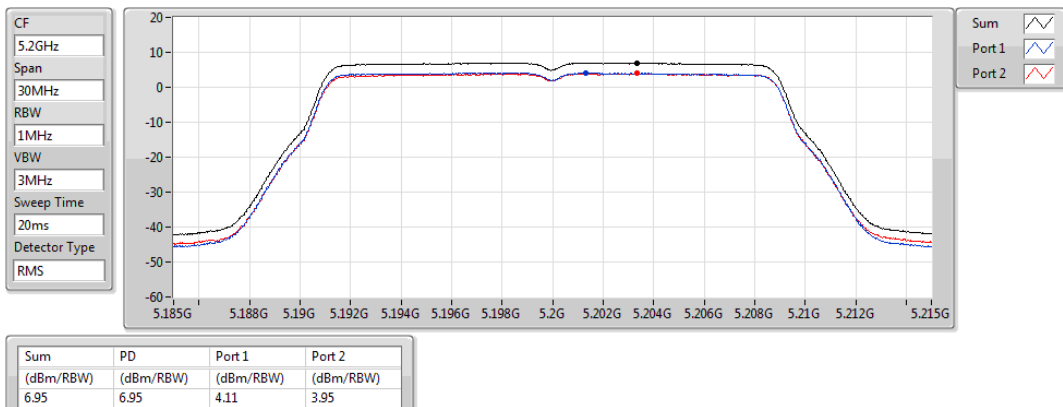


### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

### PSD

5200MHz

20/07/2020

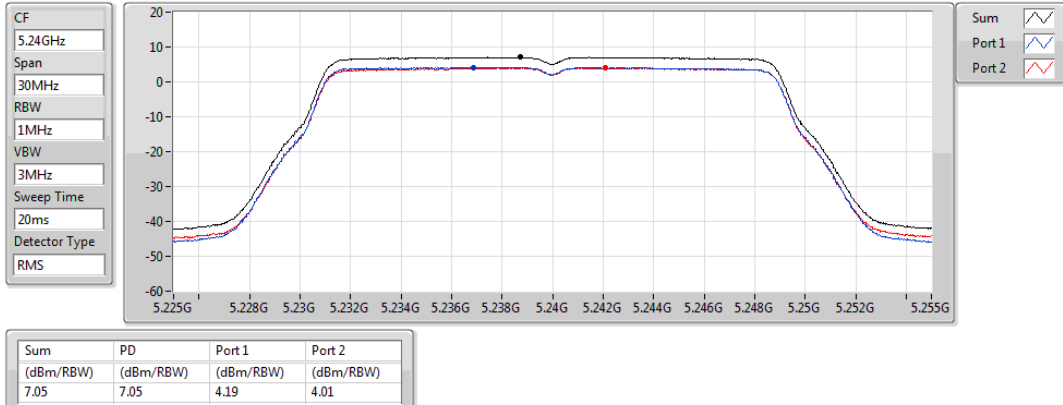


### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

### PSD

5240MHz

20/07/2020

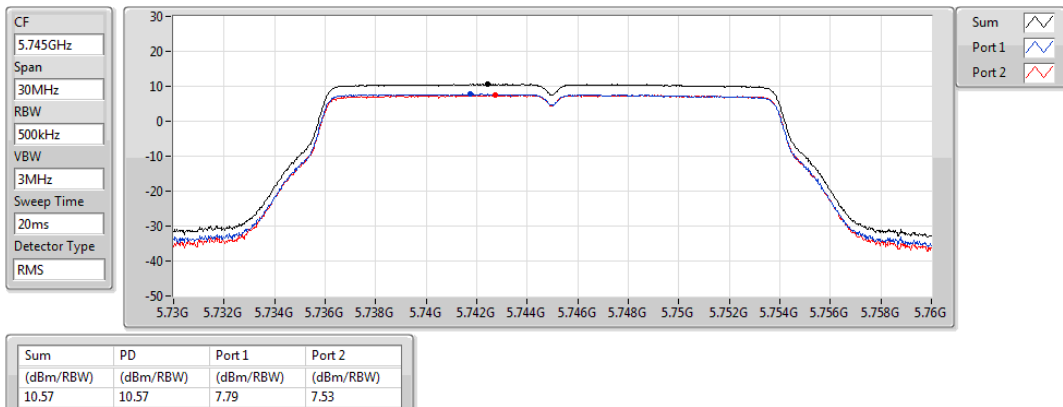


### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

### PSD

5745MHz

17/07/2020

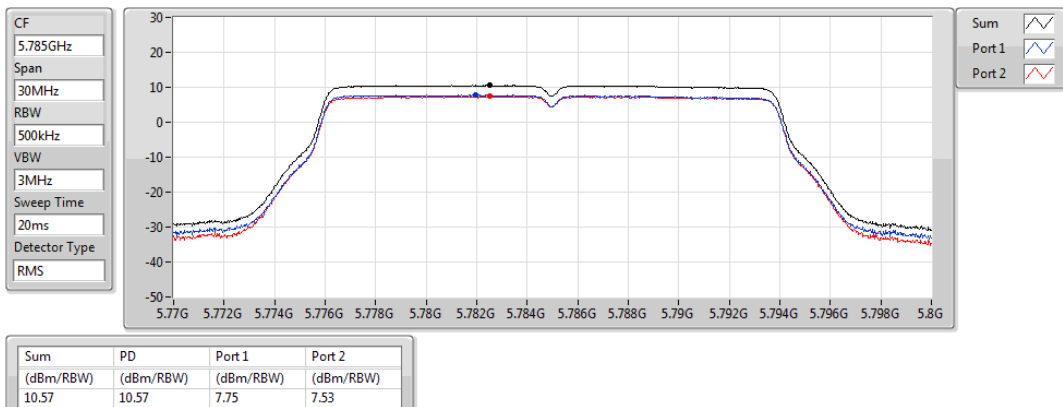


### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

### PSD

5785MHz

17/07/2020

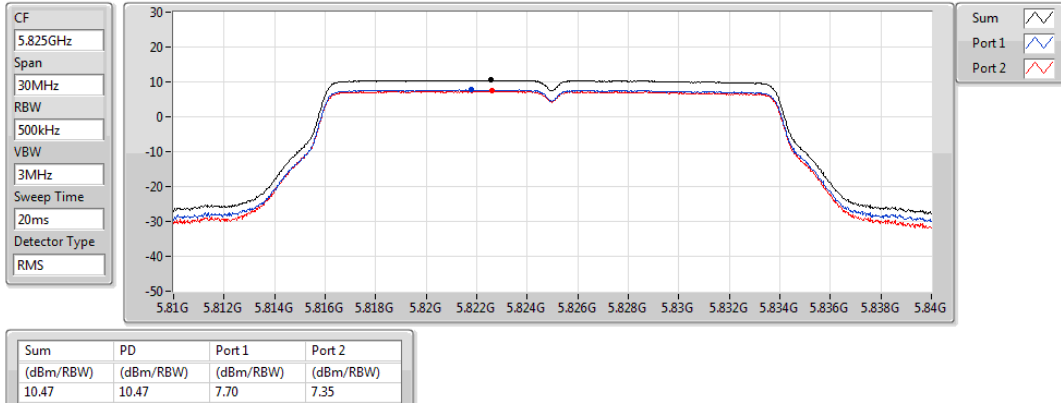


### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

### PSD

5825MHz

17/07/2020

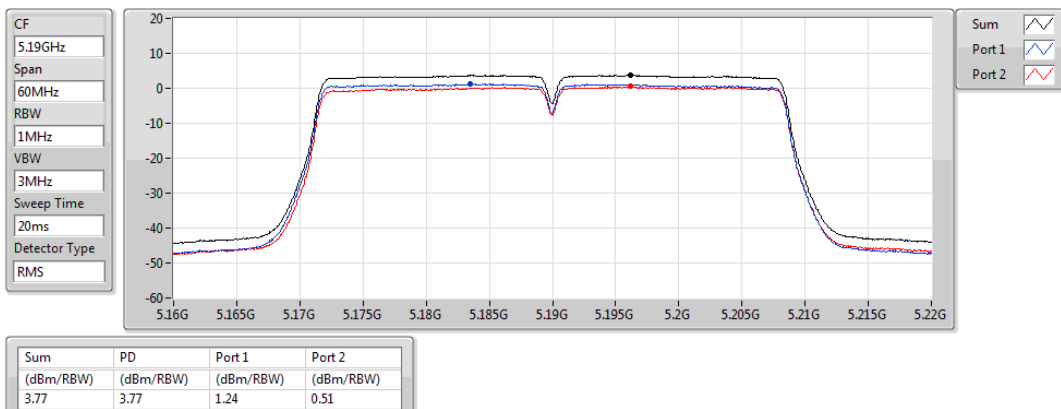


### 802.11ac VHT40\_Nss1,(MCS0)\_2TX

### PSD

5190MHz

20/07/2020

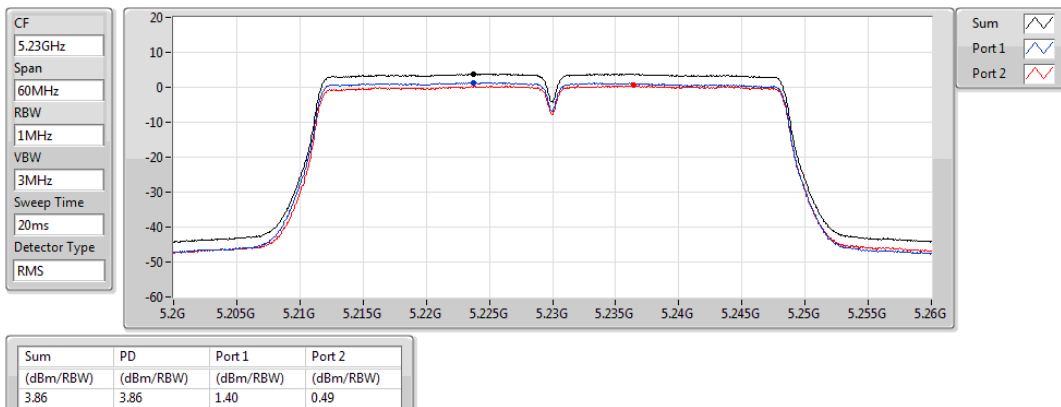


### 802.11ac VHT40\_Nss1,(MCS0)\_2TX

### PSD

5230MHz

20/07/2020



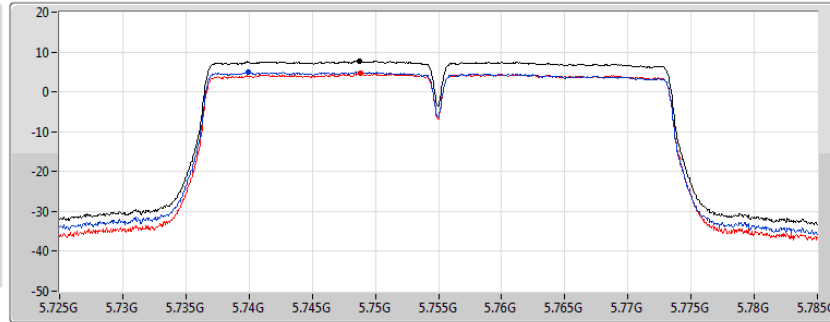
### 802.11ac VHT40\_Nss1,(MCS0)\_2TX

5755MHz

PSD

17/07/2020

CF  
5.755GHz  
Span  
60MHz  
RBW  
500kHz  
VBW  
3MHz  
Sweep Time  
20ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2

| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 7.69      | 7.69      | 4.96      | 4.56      |

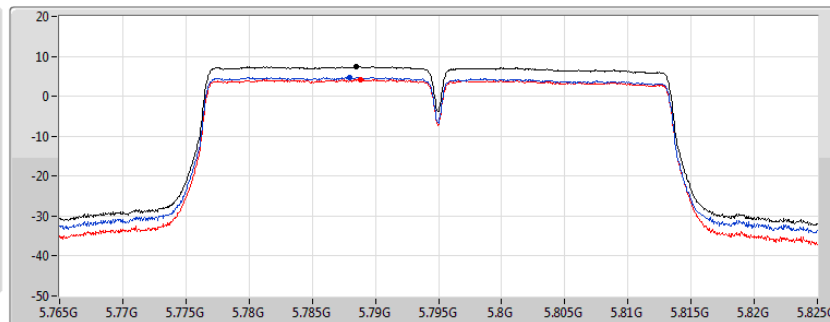
### 802.11ac VHT40\_Nss1,(MCS0)\_2TX

5795MHz

PSD

17/07/2020

CF  
5.795GHz  
Span  
60MHz  
RBW  
500kHz  
VBW  
3MHz  
Sweep Time  
20ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2

| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 7.41      | 7.41      | 4.71      | 4.16      |

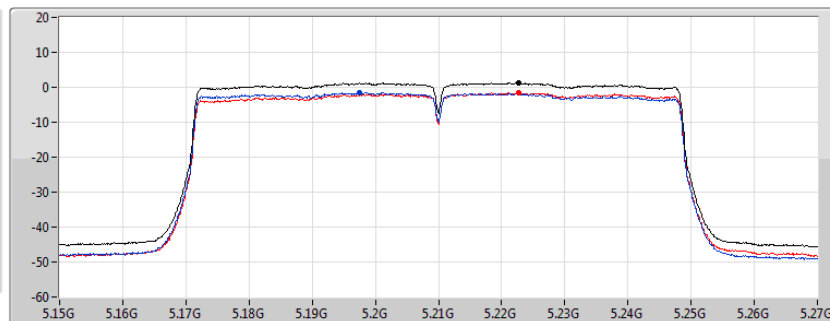
### 802.11ac VHT80\_Nss1,(MCS0)\_2TX

5210MHz

PSD

20/07/2020

CF  
5.21GHz  
Span  
120MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
20ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2

| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 1.29      | 1.29      | -1.41     | -1.49     |