

# DUTY CYCLE

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

## TEST EQUIPMENT

| Description                  | Manufacturer       | Model            | ID  | Last Cal. | Interval (mo) |
|------------------------------|--------------------|------------------|-----|-----------|---------------|
| Analyzer - Spectrum Analyzer | Agilent            | E4440A           | AFE | 6/22/2015 | 12            |
| Cable                        | ESM Cable Corp.    | TTBJ-141 KMKM-72 | NC5 | 6/6/2015  | 12            |
| Attenuator                   | Fairview Microwave | SA4014-20        | TKV | 3/4/2016  | 12            |
| Block - DC                   | Fairview Microwave | SD3379           | AMJ | 6/6/2015  | 12            |
| Generator - Signal           | Agilent            | N5183A           | TIA | 4/6/2016  | 24            |

## TEST DESCRIPTION

The Duty Cycle (x) of the single channel operation of the radio as controlled by the provided test software was measured for each of the EUT operating modes.

There is no compliance requirement to be met by this test, so therefore no Pass / Fail criteria.

The measurements were made using a zero span on the spectrum analyzer to see the pulses in the time domain. The transmit power was set to its default maximum. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used.

The duty cycle was calculated by dividing the transmission pulse duration (T) by the total period of a single on and total off time.

If the transmit duty cycle < 98 percent, burst gating may have been used during some of the other tests in this report to only take the measurement during the burst duration.

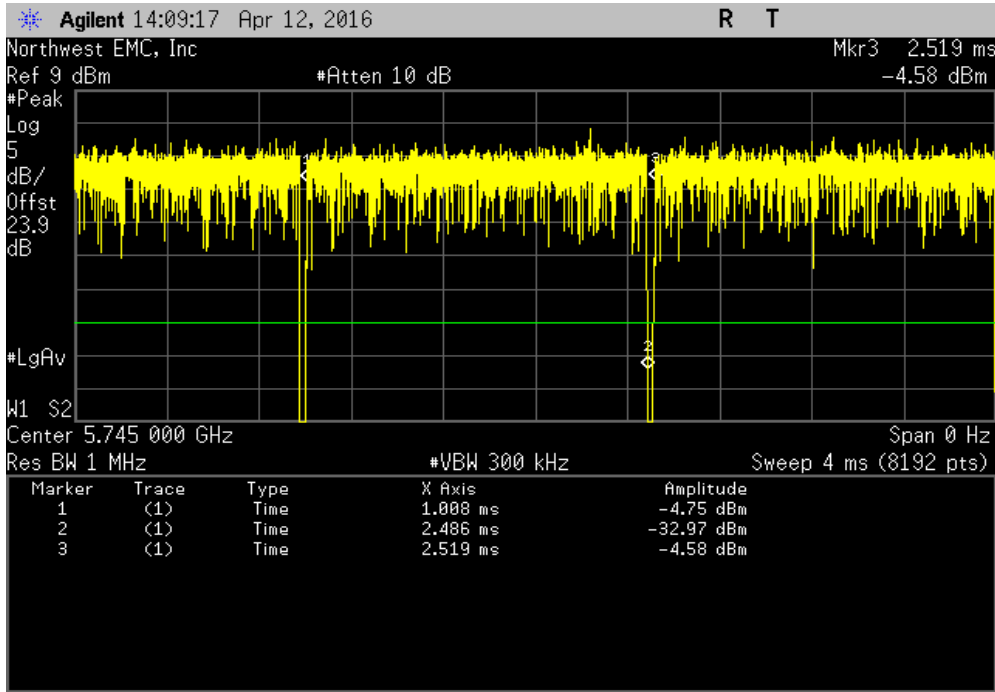
# DUTY CYCLE

|                                                                                                                                                                                                                     |                 |                             |            |                  |           |           |         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------|------------|------------------|-----------|-----------|---------|
| EUT: Model 1631                                                                                                                                                                                                     |                 | Work Order: MCSO1748        |            |                  |           |           |         |
| Serial Number: 041152140753                                                                                                                                                                                         |                 | Date: 04/13/16              |            |                  |           |           |         |
| Customer: Microsoft Corporation                                                                                                                                                                                     |                 | Temperature: 23°C           |            |                  |           |           |         |
| Attendees: None                                                                                                                                                                                                     |                 | Humidity: 33%               |            |                  |           |           |         |
| Project: None                                                                                                                                                                                                       |                 | Barometric Pres.: 1019 mbar |            |                  |           |           |         |
| Tested by: Richard Mellroth                                                                                                                                                                                         |                 | Power: 110VAC/60Hz          |            |                  |           |           |         |
|                                                                                                                                                                                                                     |                 | Job Site: NC02              |            |                  |           |           |         |
| TEST SPECIFICATIONS                                                                                                                                                                                                 |                 | Test Method                 |            |                  |           |           |         |
| FCC 15.407:2016                                                                                                                                                                                                     |                 | ANSI C63.10:2013            |            |                  |           |           |         |
| COMMENTS                                                                                                                                                                                                            |                 |                             |            |                  |           |           |         |
| Power setting at 11dBm for 20MHz and 40MHz channels. Power Setting at 10dBm for 80MHz channels. Client supplied adapter cable loss of 1.3dB included in reference level offset. Signal setting at > 95% Duty Cycle. |                 |                             |            |                  |           |           |         |
| DEVIATIONS FROM TEST STANDARD                                                                                                                                                                                       |                 |                             |            |                  |           |           |         |
| None                                                                                                                                                                                                                |                 |                             |            |                  |           |           |         |
| Configuration #                                                                                                                                                                                                     | 1               | Signature                   |            |                  |           |           |         |
|                                                                                                                                                                                                                     |                 | Pulse Width                 | Period     | Number of Pulses | Value (%) | Limit (%) | Results |
| 2x2 MIMO, Chain A                                                                                                                                                                                                   |                 |                             |            |                  |           |           |         |
| 20MHz BW                                                                                                                                                                                                            |                 |                             |            |                  |           |           |         |
| Low Channel, Ch 149 - 5745 MHz                                                                                                                                                                                      |                 |                             |            |                  |           |           |         |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | 1.478 ms                    | 1.512 ms   | 1                | 97.8      | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | N/A                         | N/A        | 5                | N/A       | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | 181.9 us                    | 215.6 us   | 1                | 84.4      | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | N/A                         | N/A        | 5                | N/A       | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 1.486 ms                    | 1.513 ms   | 1                | 98.2      | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | N/A                         | N/A        | 5                | N/A       | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8 | 161.6 us                    | 189.4 us   | 1                | 85.3      | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8 | N/A                         | N/A        | 5                | N/A       | N/A       | N/A     |
| Mid Channel, Ch 157 - 5785 MHz                                                                                                                                                                                      |                 |                             |            |                  |           |           |         |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | 1.478 ms                    | 1.511 ms   | 1                | 97.8      | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | N/A                         | N/A        | 5                | N/A       | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | 181.6 us                    | 215.3 us   | 1                | 84.3      | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | N/A                         | N/A        | 6                | N/A       | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 1.486 ms                    | 1.513 ms   | 1                | 98.2      | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | N/A                         | N/A        | 5                | N/A       | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8 | 161.4 us                    | 189.2 us   | 1                | 85.3      | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8 | N/A                         | N/A        | 5                | N/A       | N/A       | N/A     |
| High Channel, Ch 165 - 5825 MHz                                                                                                                                                                                     |                 |                             |            |                  |           |           |         |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | 1.478 ms                    | 1.512 ms   | 1                | 97.8      | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | N/A                         | N/A        | 5                | N/A       | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | 181.7 us                    | 215.6 us   | 1                | 84.3      | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | N/A                         | N/A        | 6                | N/A       | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 1.486 ms                    | 1.513 ms   | 1                | 98.2      | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | N/A                         | N/A        | 5                | N/A       | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8 | 161.9 us                    | 189.5 us   | 1                | 85.4      | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8 | N/A                         | N/A        | 5                | N/A       | N/A       | N/A     |
| 40MHz BW                                                                                                                                                                                                            |                 |                             |            |                  |           |           |         |
| Low Channel, Ch 149/153 - 5755 MHz                                                                                                                                                                                  |                 |                             |            |                  |           |           |         |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | 729.54 us                   | 763.269 us | 1                | 95.6      | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | N/A                         | N/A        | 5                | N/A       | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | 98.115 us                   | 139.644 us | 1                | 70.3      | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | N/A                         | N/A        | 5                | N/A       | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 714.2 us                    | 765.5 us   | 1                | 93.3      | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | N/A                         | N/A        | 5                | N/A       | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9 | 92.573 us                   | 121.6 us   | 1                | 76.1      | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9 | N/A                         | N/A        | 5                | N/A       | N/A       | N/A     |
| High Channel, Ch 157/161 - 5795 MHz                                                                                                                                                                                 |                 |                             |            |                  |           |           |         |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | 704.3 us                    | 763.3 us   | 1                | 92.3      | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | N/A                         | N/A        | 5                | N/A       | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | 98.127 us                   | 139.944 us | 1                | 70.1      | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | N/A                         | N/A        | 5                | N/A       | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 712.7 us                    | 764 us     | 1                | 93.3      | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | N/A                         | N/A        | 5                | N/A       | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9 | 68.3 us                     | 121.6 us   | 1                | 56.2      | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9 | N/A                         | N/A        | 5                | N/A       | N/A       | N/A     |
| 80MHz BW                                                                                                                                                                                                            |                 |                             |            |                  |           |           |         |
| Mid Channel, Ch 149/161 - 5775 MHz                                                                                                                                                                                  |                 |                             |            |                  |           |           |         |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 342.3 us                    | 393.4 us   | 1                | 87        | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | N/A                         | N/A        | 5                | N/A       | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9 | 42.3 us                     | 81.3 us    | 1                | 52        | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9 | N/A                         | N/A        | 4                | N/A       | N/A       | N/A     |
| 2x2 MIMO, Chain B                                                                                                                                                                                                   |                 |                             |            |                  |           |           |         |
| 20MHz BW                                                                                                                                                                                                            |                 |                             |            |                  |           |           |         |
| Low Channel, Ch 149 - 5745 MHz                                                                                                                                                                                      |                 |                             |            |                  |           |           |         |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | 1.477 ms                    | 1.511 ms   | 1                | 97.7      | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | N/A                         | N/A        | 6                | N/A       | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | 180.9 us                    | 215.3 us   | 1                | 84        | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | N/A                         | N/A        | 5                | N/A       | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 1.485 ms                    | 1.513 ms   | 1                | 98.1      | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | N/A                         | N/A        | 5                | N/A       | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8 | 161.1 us                    | 189.4 us   | 1                | 85.1      | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8 | N/A                         | N/A        | 5                | N/A       | N/A       | N/A     |
| Mid Channel, Ch 157 - 5785 MHz                                                                                                                                                                                      |                 |                             |            |                  |           |           |         |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | 1.477 ms                    | 1.511 ms   | 1                | 97.7      | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | N/A                         | N/A        | 5                | N/A       | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | 180.9 us                    | 215.3 us   | 1                | 84        | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | N/A                         | N/A        | 5                | N/A       | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 1.485 ms                    | 1.513 ms   | 1                | 98.1      | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | N/A                         | N/A        | 5                | N/A       | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8 | 160.9 us                    | 189.4 us   | 1                | 85        | N/A       | N/A     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8 | N/A                         | N/A        | 5                | N/A       | N/A       | N/A     |

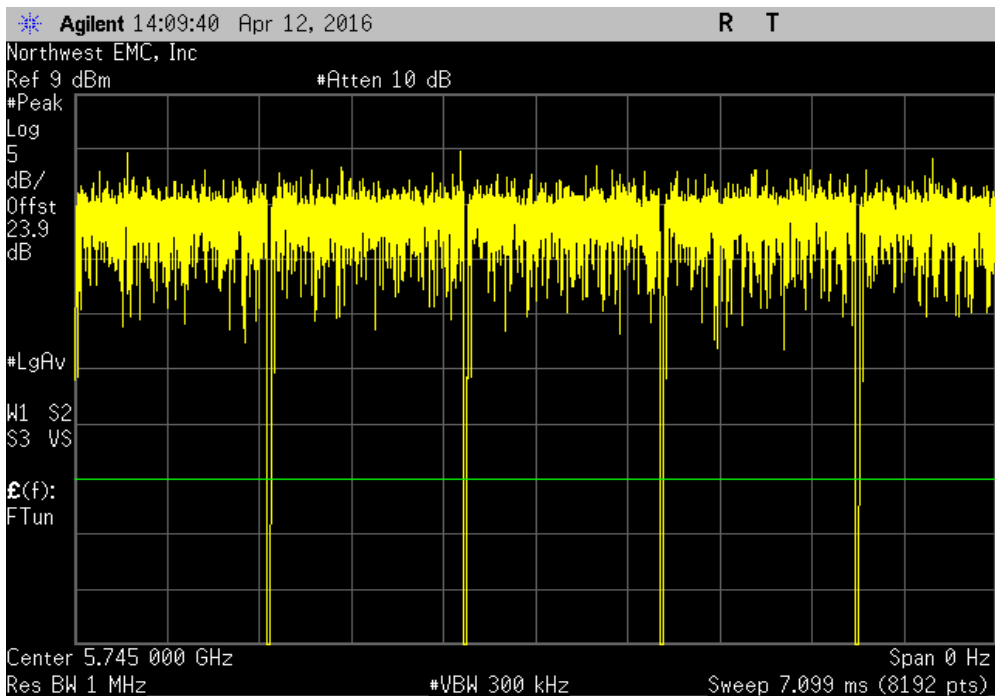
|                                            |           |           |   |      |     |     |  |
|--------------------------------------------|-----------|-----------|---|------|-----|-----|--|
| <b>High Channel, Ch 165 - 5825 MHz</b>     |           |           |   |      |     |     |  |
| 802.11(n) MCS8                             | 1.477 ms  | 1.511 ms  | 1 | 97.7 | N/A | N/A |  |
| 802.11(n) MCS8                             | N/A       | N/A       | 5 | N/A  | N/A | N/A |  |
| 802.11(n) MCS15                            | 181.2 us  | 215.6 us  | 1 | 84   | N/A | N/A |  |
| 802.11(n) MCS15                            | N/A       | N/A       | 5 | N/A  | N/A | N/A |  |
| 802.11(ac) MCS0                            | 1.485 ms  | 1.513 ms  | 1 | 98.1 | N/A | N/A |  |
| 802.11(ac) MCS0                            | N/A       | N/A       | 5 | N/A  | N/A | N/A |  |
| 802.11(ac) MCS8                            | 161.2 us  | 189.5 us  | 1 | 85.1 | N/A | N/A |  |
| 802.11(ac) MCS8                            | N/A       | N/A       | 5 | N/A  | N/A | N/A |  |
| <b>40MHz BW</b>                            |           |           |   |      |     |     |  |
| <b>Low Channel, Ch 149/153 - 5755 MHz</b>  |           |           |   |      |     |     |  |
| 802.11(n) MCS8                             | 705.1 us  | 763.3 us  | 1 | 92.4 | N/A | N/A |  |
| 802.11(n) MCS8                             | N/A       | N/A       | 5 | N/A  | N/A | N/A |  |
| 802.11(n) MCS15                            | 81.3 us   | 139.7 us  | 1 | 58.2 | N/A | N/A |  |
| 802.11(n) MCS15                            | N/A       | N/A       | 5 | N/A  | N/A | N/A |  |
| 802.11(ac) MCS0                            | 712.8 us  | 765.5 us  | 1 | 93.1 | N/A | N/A |  |
| 802.11(ac) MCS0                            | N/A       | N/A       | 5 | N/A  | N/A | N/A |  |
| 802.11(ac) MCS9                            | 94.005 us | 121.6 us  | 1 | 77.3 | N/A | N/A |  |
| 802.11(ac) MCS9                            | N/A       | N/A       | 5 | N/A  | N/A | N/A |  |
| <b>High Channel, Ch 157/161 - 5795 MHz</b> |           |           |   |      |     |     |  |
| 802.11(n) MCS8                             | 704.3 us  | 762.9 us  | 1 | 92.3 | N/A | N/A |  |
| 802.11(n) MCS8                             | N/A       | N/A       | 5 | N/A  | N/A | N/A |  |
| 802.11(n) MCS15                            | 80.3 us   | 138.9 us  | 1 | 57.8 | N/A | N/A |  |
| 802.11(n) MCS15                            | N/A       | N/A       | 6 | N/A  | N/A | N/A |  |
| 802.11(ac) MCS0                            | 712.7 us  | 765.8 us  | 1 | 93.1 | N/A | N/A |  |
| 802.11(ac) MCS0                            | N/A       | N/A       | 6 | N/A  | N/A | N/A |  |
| 802.11(ac) MCS9                            | 68.4 us   | 121.1 us  | 1 | 56.5 | N/A | N/A |  |
| 802.11(ac) MCS9                            | N/A       | N/A       | 5 | N/A  | N/A | N/A |  |
| <b>80MHz BW</b>                            |           |           |   |      |     |     |  |
| <b>Mid Channel, Ch 149/161 - 5775 MHz</b>  |           |           |   |      |     |     |  |
| 802.11(ac) MCS0                            | 336.9 us  | 389.4 us  | 1 | 86.5 | N/A | N/A |  |
| 802.11(ac) MCS0                            | N/A       | N/A       | 5 | N/A  | N/A | N/A |  |
| 802.11(ac) MCS9                            | 65.725 us | 93.564 us | 1 | 70.2 | N/A | N/A |  |
| 802.11(ac) MCS9                            | N/A       | N/A       | 5 | N/A  | N/A | N/A |  |

# DUTY CYCLE

| 2x2 MIMO, Chain A, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(n) MCS8 |          |                  |           |           |         |  |
|-----------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                 | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 1.478 ms                                                                    | 1.512 ms | 1                | 97.8      | N/A       | N/A     |  |

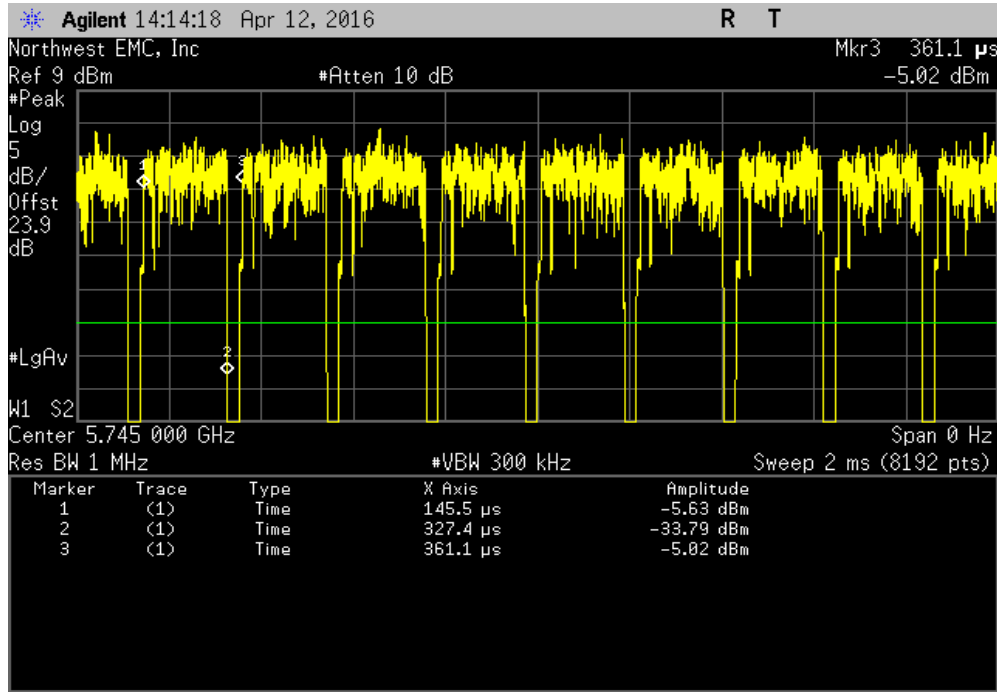


| 2x2 MIMO, Chain A, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(n) MCS8 |        |                  |           |           |         |  |
|-----------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                 | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                         | N/A    | 5                | N/A       | N/A       | N/A     |  |

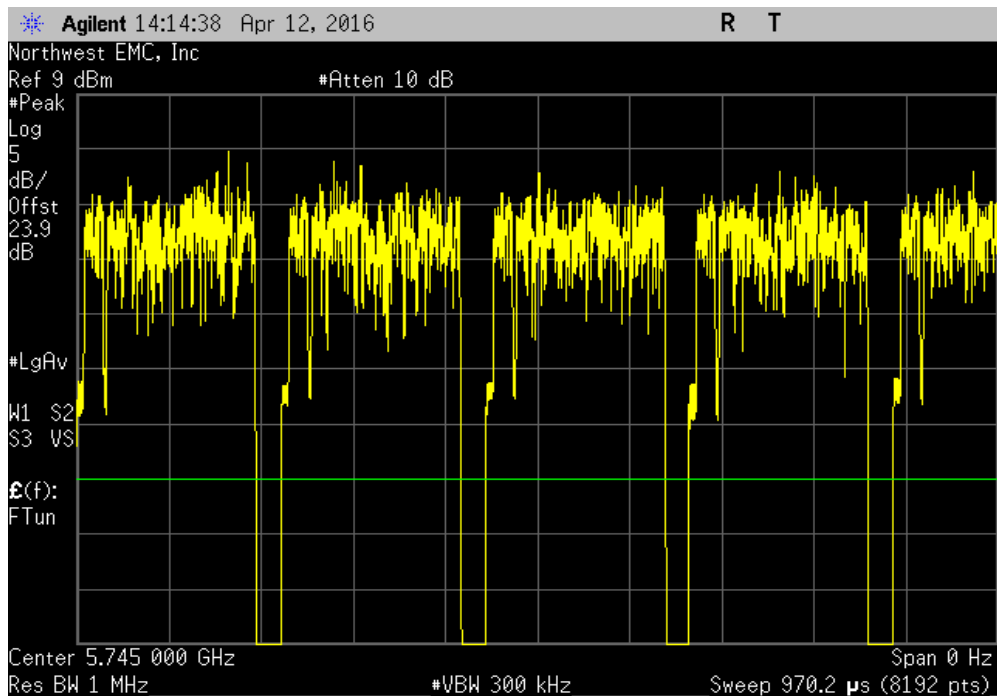


# DUTY CYCLE

| 2x2 MIMO, Chain A, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(n) MCS15 |          |                  |           |           |         |  |
|------------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                  | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 181.9 us                                                                     | 215.6 us | 1                | 84.4      | N/A       | N/A     |  |

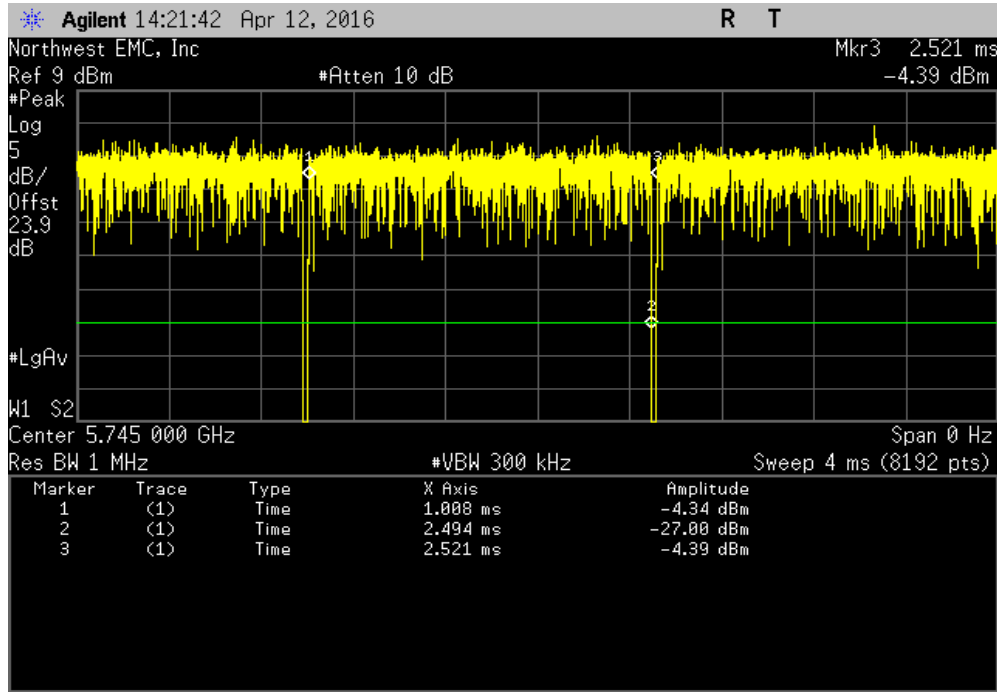


| 2x2 MIMO, Chain A, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(n) MCS15 |        |                  |           |           |         |  |
|------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                  | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                          | N/A    | 5                | N/A       | N/A       | N/A     |  |

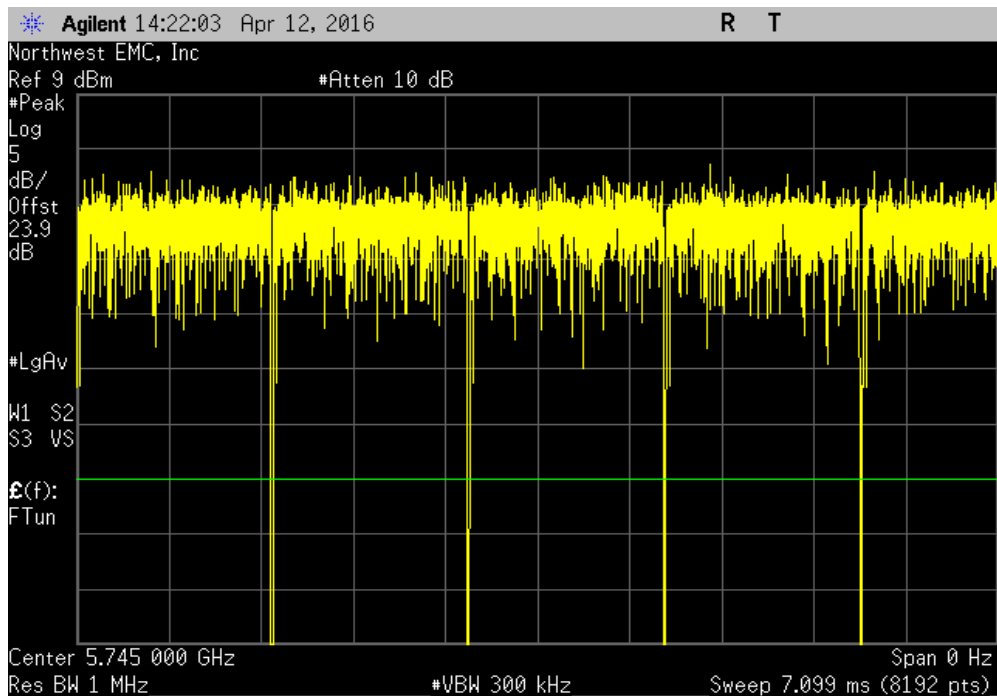


# DUTY CYCLE

| 2x2 MIMO, Chain A, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(ac) MCS0 |          |                  |           |           |         |  |
|------------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                  | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 1.486 ms                                                                     | 1.513 ms | 1                | 98.2      | N/A       | N/A     |  |

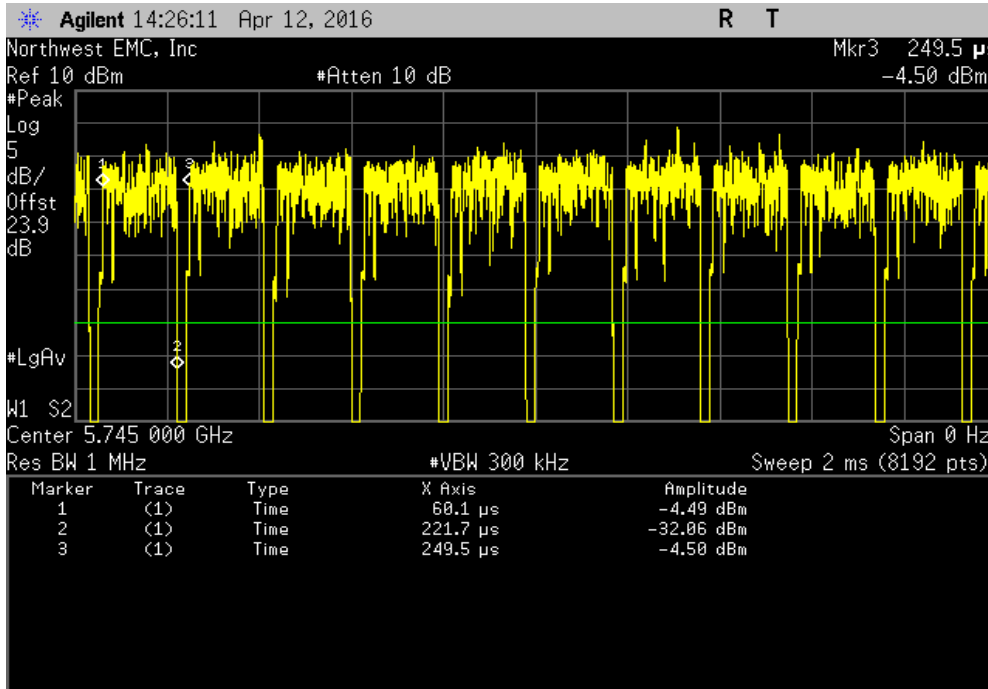


| 2x2 MIMO, Chain A, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(ac) MCS0 |        |                  |           |           |         |  |
|------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                  | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                          | N/A    | 5                | N/A       | N/A       | N/A     |  |

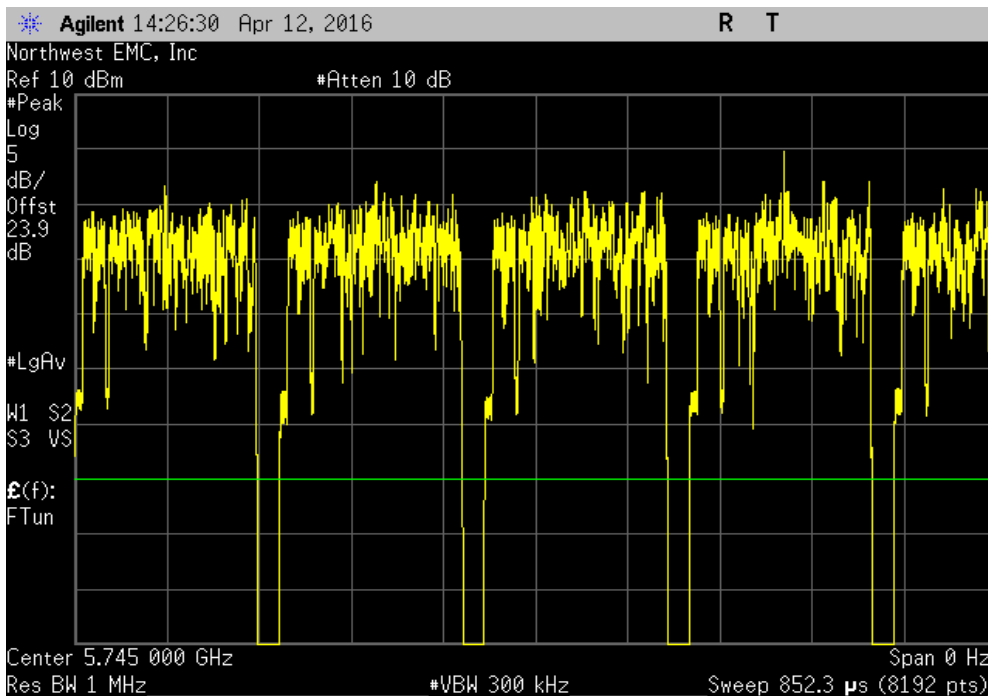


# DUTY CYCLE

| 2x2 MIMO, Chain A, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(ac) MCS8 |          |                  |           |           |         |  |
|------------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                  | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 161.6 us                                                                     | 189.4 us | 1                | 85.3      | N/A       | N/A     |  |

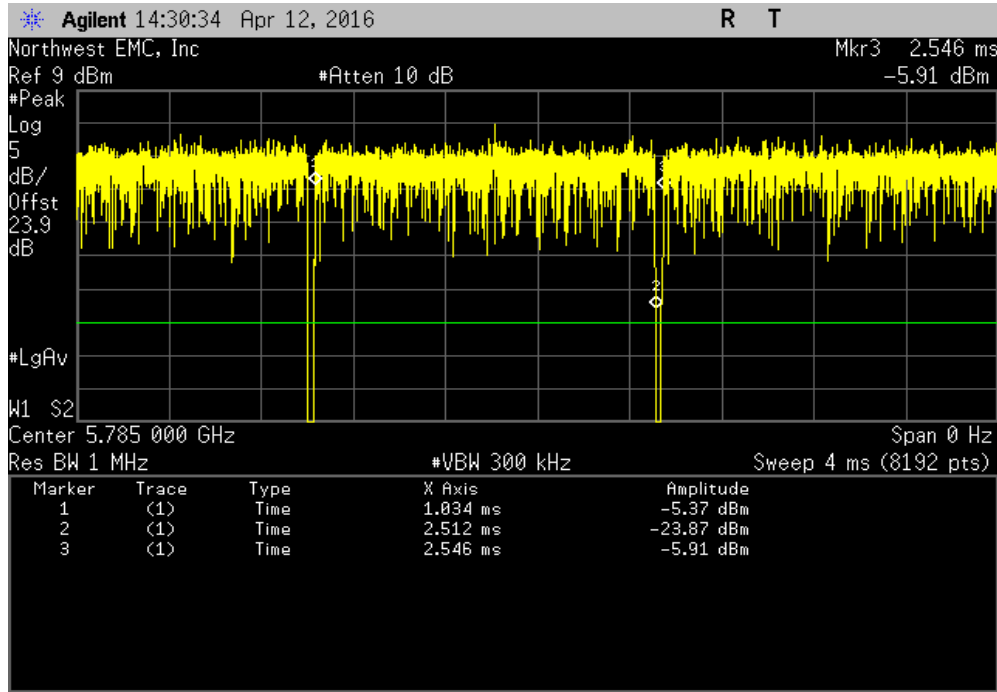


| 2x2 MIMO, Chain A, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(ac) MCS8 |        |                  |           |           |         |  |
|------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                  | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                          | N/A    | 5                | N/A       | N/A       | N/A     |  |

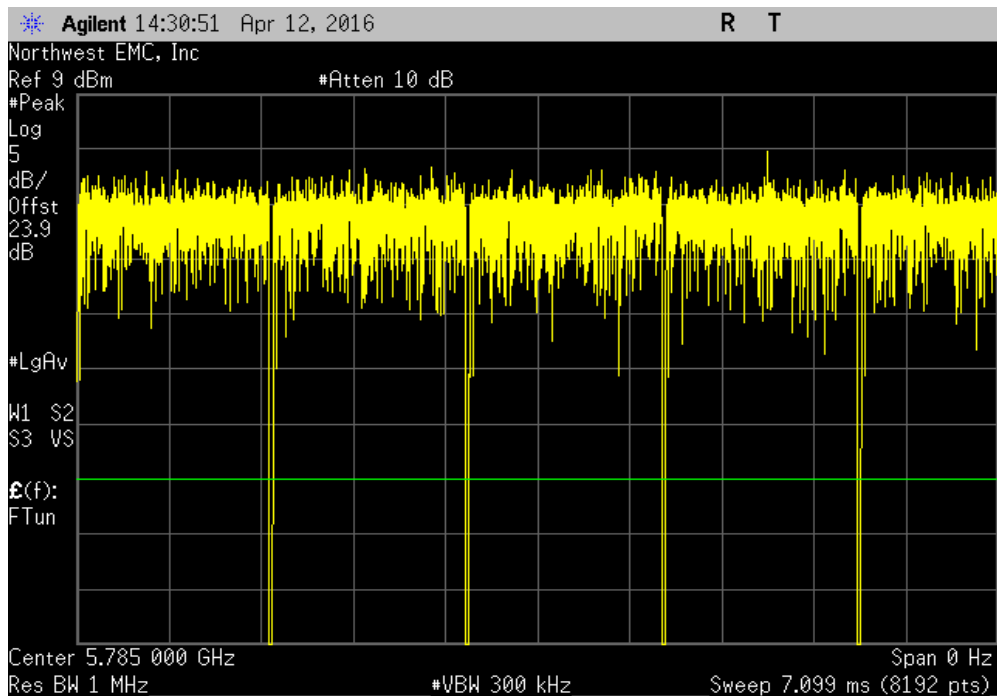


# DUTY CYCLE

| 2x2 MIMO, Chain A, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(n) MCS8 |          |                  |           |           |         |  |
|-----------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                 | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 1.478 ms                                                                    | 1.511 ms | 1                | 97.8      | N/A       | N/A     |  |



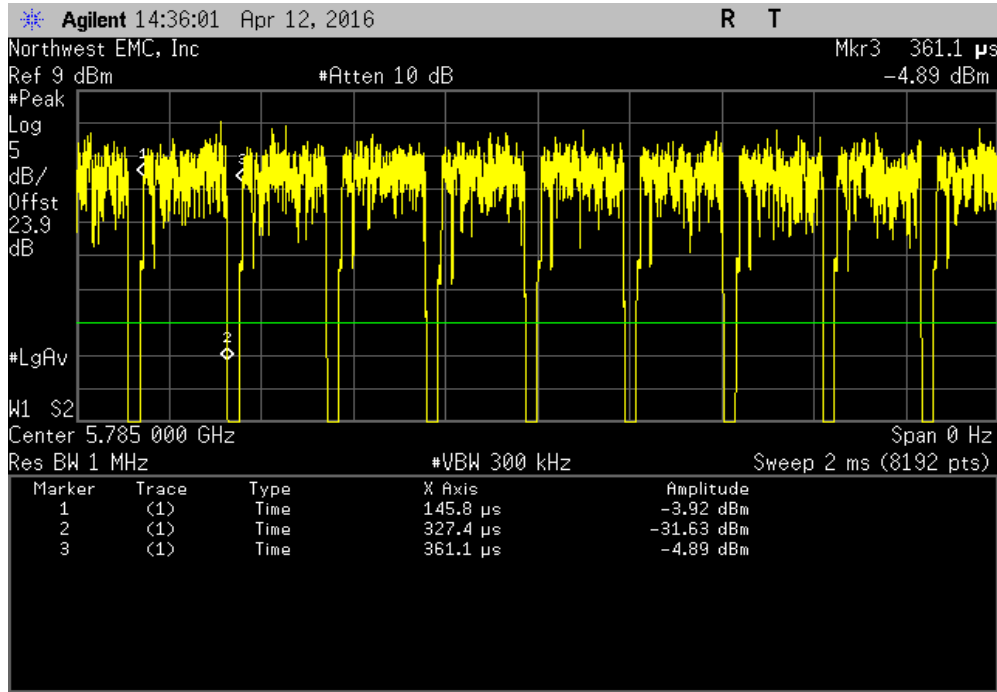
| 2x2 MIMO, Chain A, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(n) MCS8 |        |                  |           |           |         |  |
|-----------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                 | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                         | N/A    | 5                | N/A       | N/A       | N/A     |  |



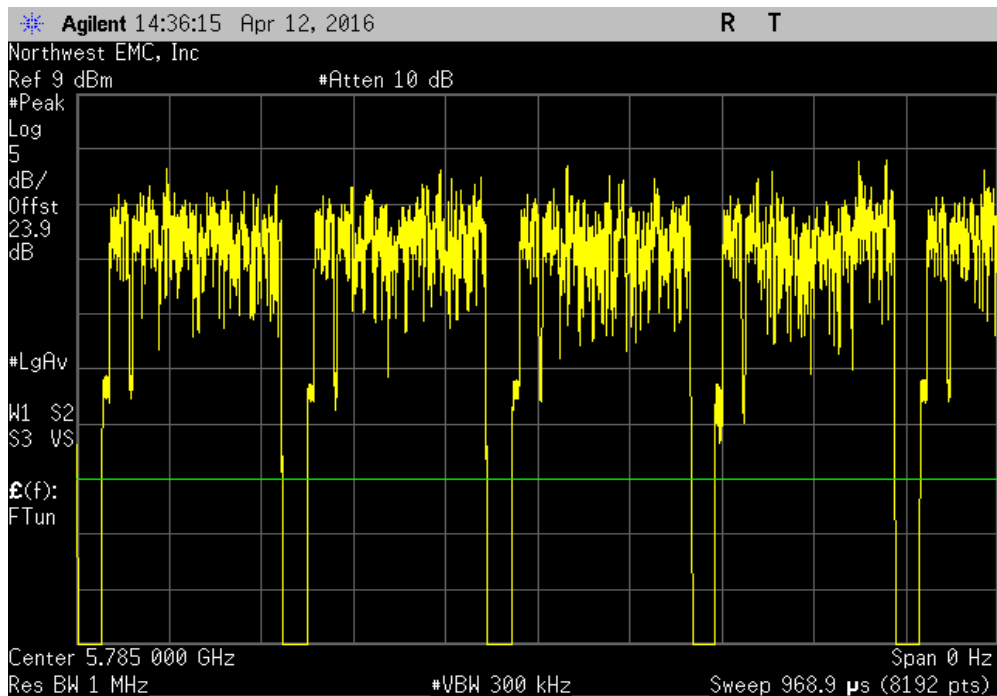


# DUTY CYCLE

| 2x2 MIMO, Chain A, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(n) MCS15 |          |                  |           |           |         |  |
|------------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                  | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 181.6 us                                                                     | 215.3 us | 1                | 84.3      | N/A       | N/A     |  |

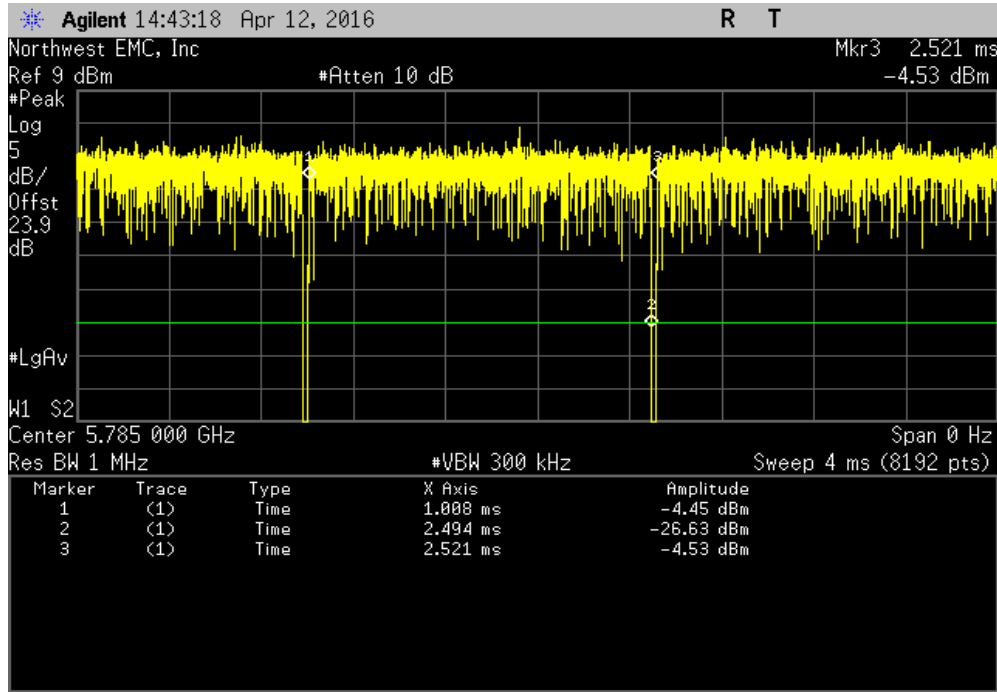


| 2x2 MIMO, Chain A, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(n) MCS15 |        |                  |           |           |         |  |
|------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                  | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                          | N/A    | 6                | N/A       | N/A       | N/A     |  |

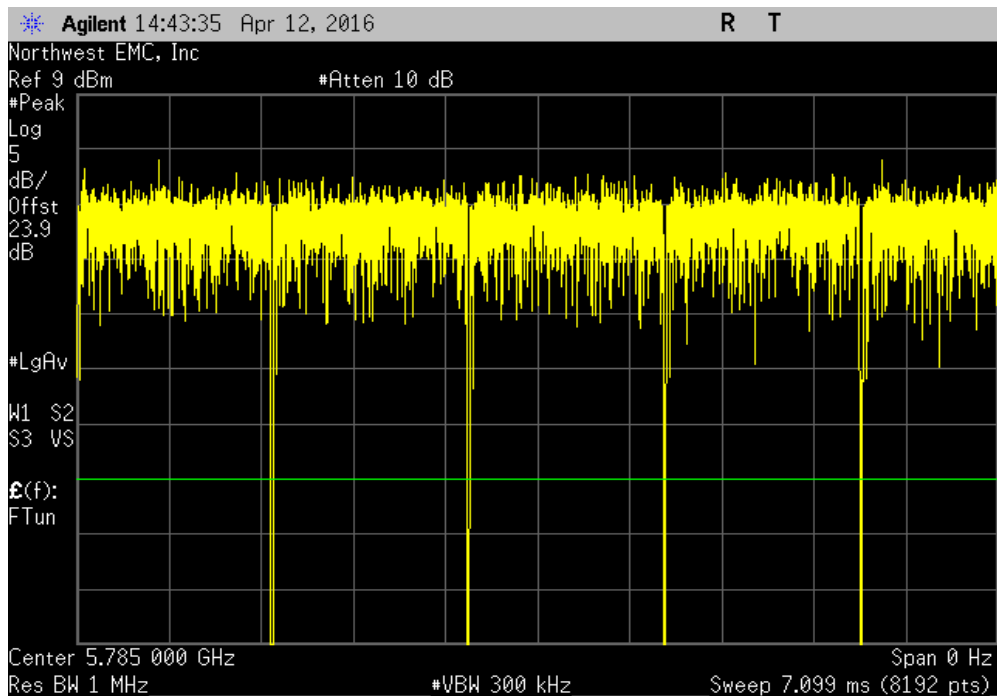


# DUTY CYCLE

| 2x2 MIMO, Chain A, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(ac) MCS0 |          |                  |           |           |         |  |
|------------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                  | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 1.486 ms                                                                     | 1.513 ms | 1                | 98.2      | N/A       | N/A     |  |

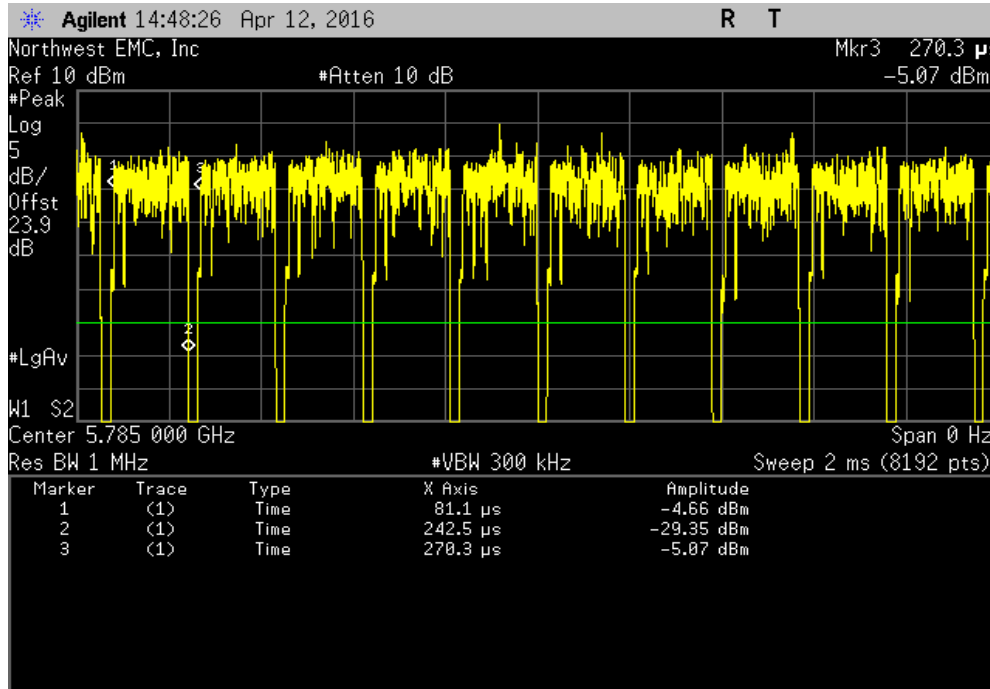


| 2x2 MIMO, Chain A, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(ac) MCS0 |        |                  |           |           |         |  |
|------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                  | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                          | N/A    | 5                | N/A       | N/A       | N/A     |  |

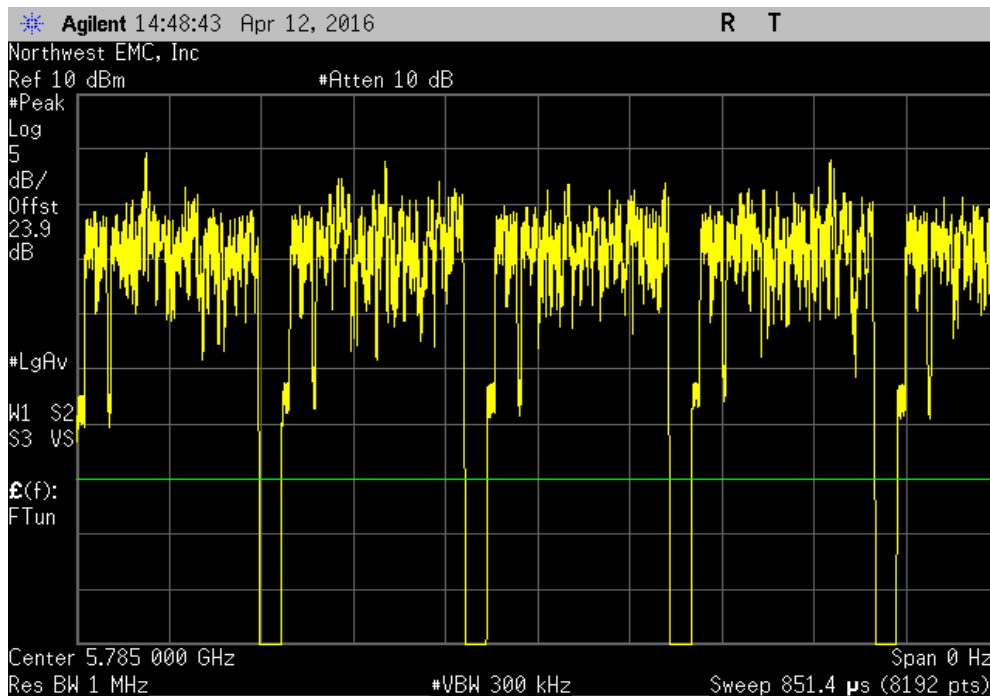


# DUTY CYCLE

| 2x2 MIMO, Chain A, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(ac) MCS8 |          |                  |           |           |         |  |
|------------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                  | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 161.4 us                                                                     | 189.2 us | 1                | 85.3      | N/A       | N/A     |  |

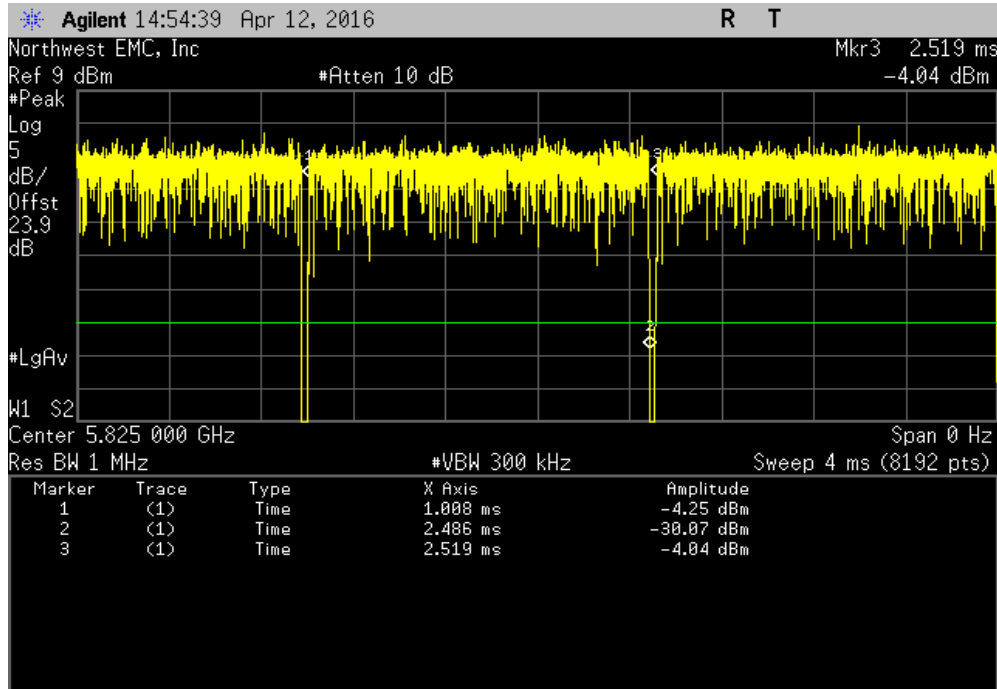


| 2x2 MIMO, Chain A, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(ac) MCS8 |        |                  |           |           |         |  |
|------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                  | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                          | N/A    | 5                | N/A       | N/A       | N/A     |  |

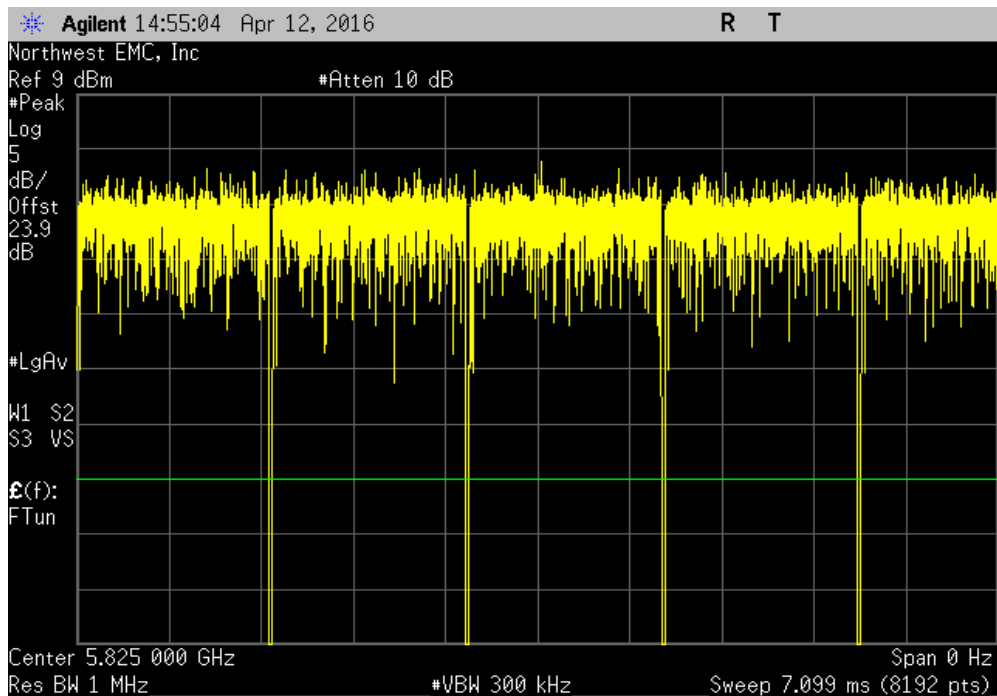


# DUTY CYCLE

| 2x2 MIMO, Chain A, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(n) MCS8 |          |                  |           |           |         |  |
|------------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                  | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 1.478 ms                                                                     | 1.512 ms | 1                | 97.8      | N/A       | N/A     |  |

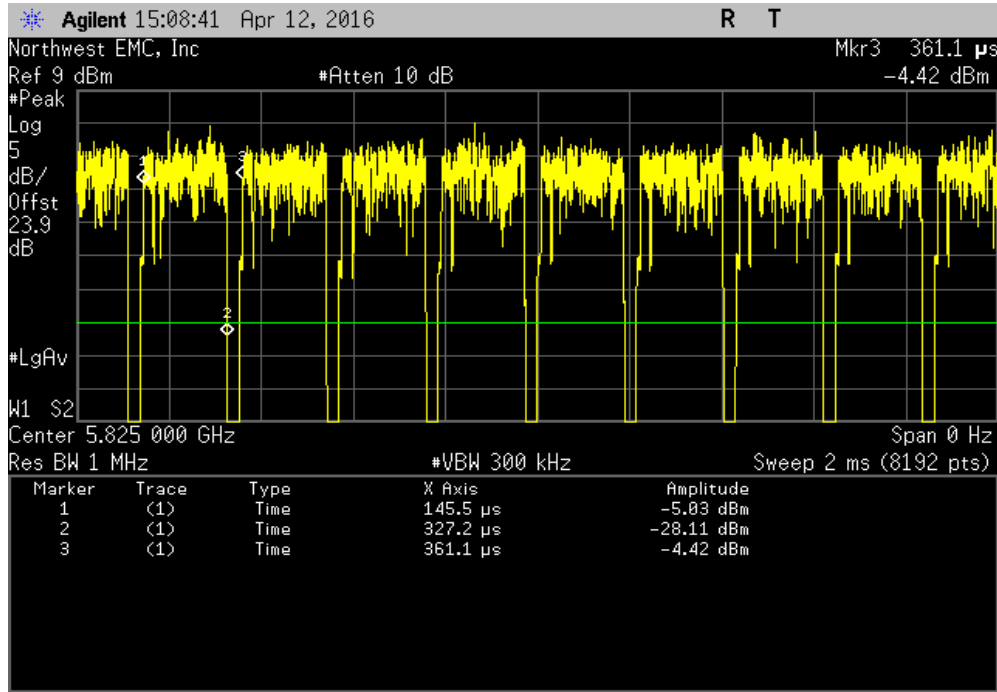


| 2x2 MIMO, Chain A, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(n) MCS8 |        |                  |           |           |         |  |
|------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                  | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                          | N/A    | 5                | N/A       | N/A       | N/A     |  |

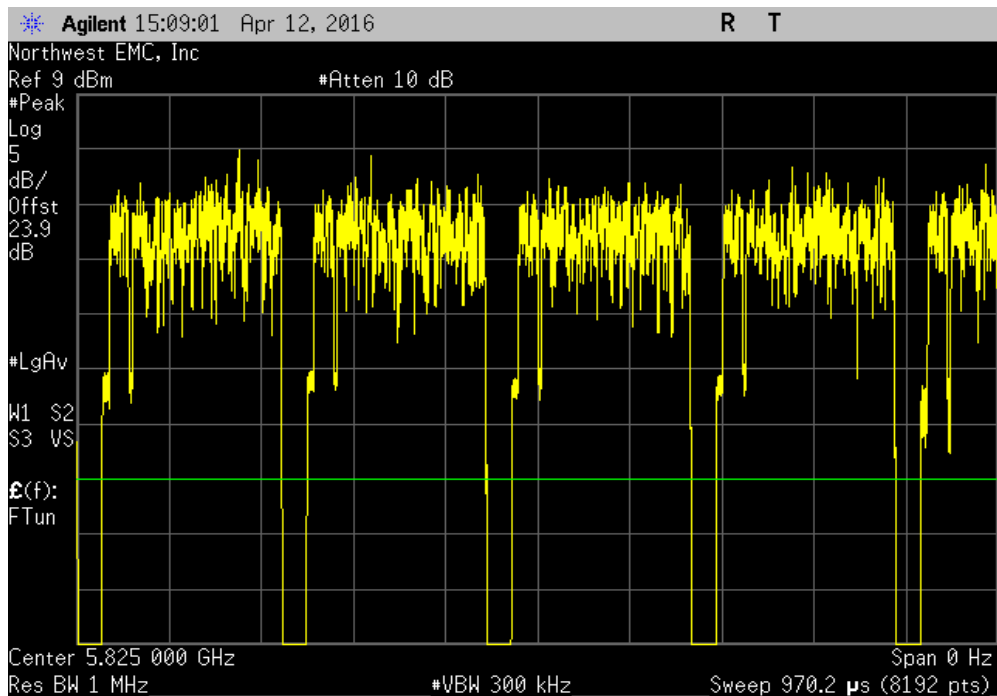


# DUTY CYCLE

| 2x2 MIMO, Chain A, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(n) MCS15 |          |                  |           |           |         |  |
|-------------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                   | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 181.7 us                                                                      | 215.6 us | 1                | 84.3      | N/A       | N/A     |  |

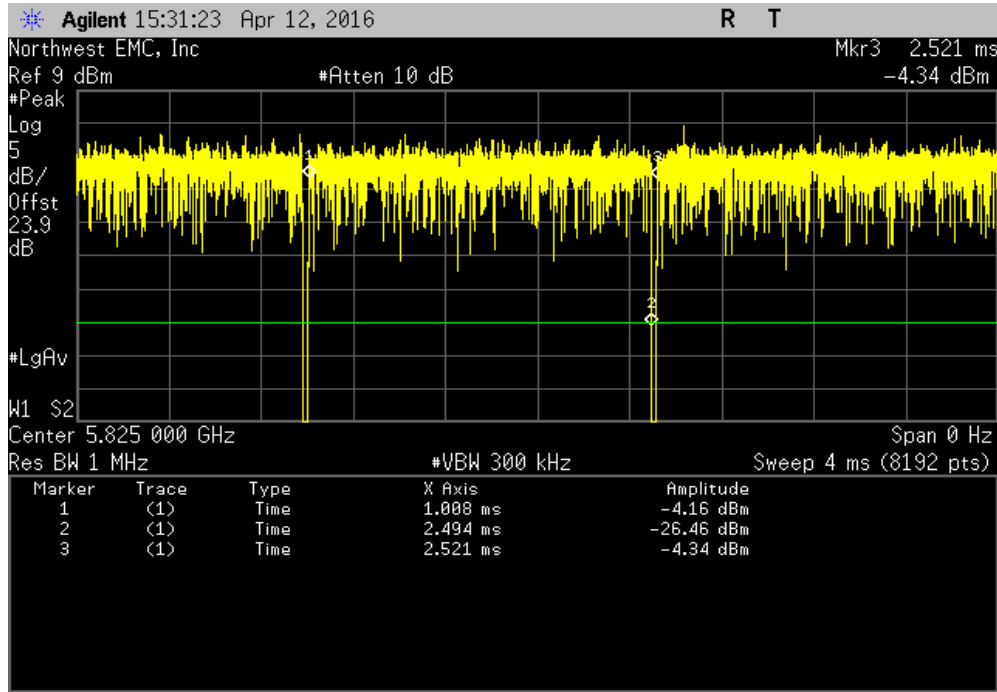


| 2x2 MIMO, Chain A, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(n) MCS15 |        |                  |           |           |         |  |
|-------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                   | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                           | N/A    | 6                | N/A       | N/A       | N/A     |  |

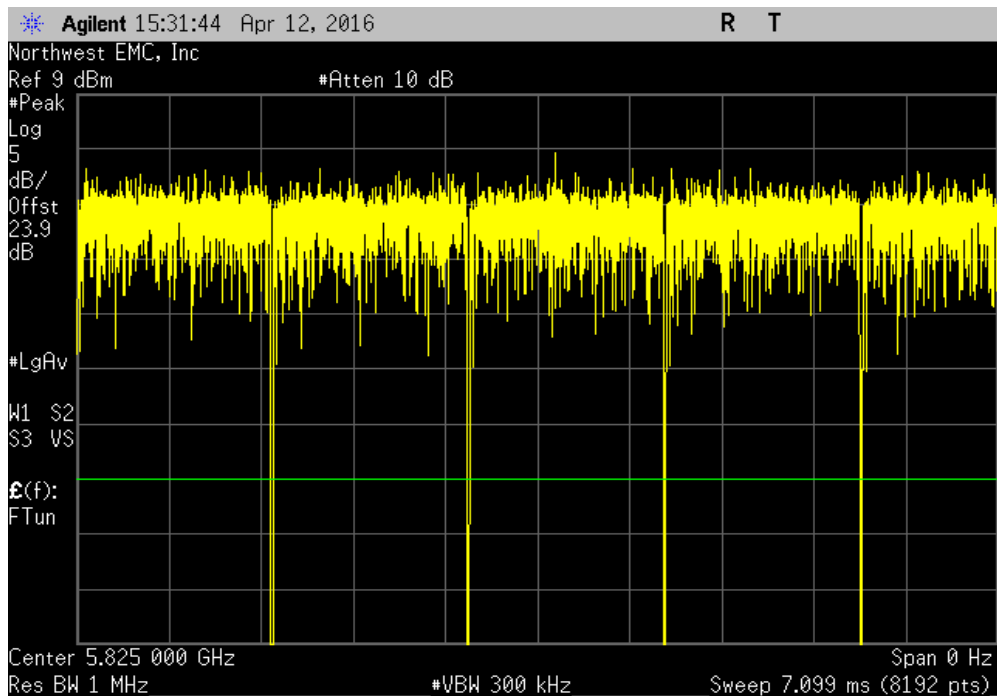


# DUTY CYCLE

| 2x2 MIMO, Chain A, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(ac) MCS0 |          |                  |           |           |         |  |
|-------------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                   | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 1.486 ms                                                                      | 1.513 ms | 1                | 98.2      | N/A       | N/A     |  |

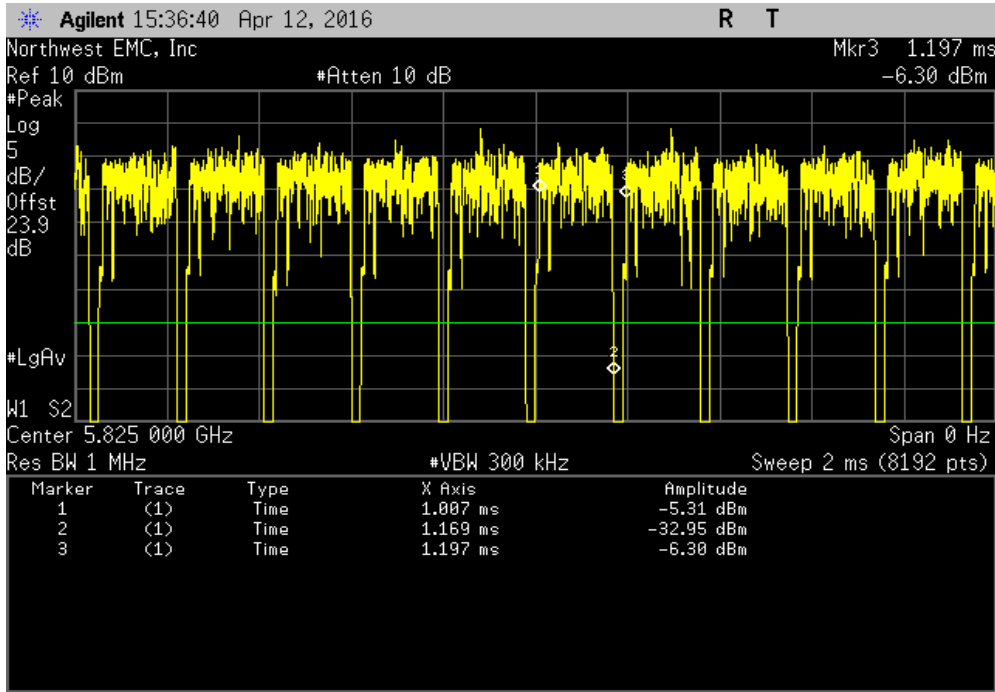


| 2x2 MIMO, Chain A, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(ac) MCS0 |        |                  |           |           |         |  |
|-------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                   | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                           | N/A    | 5                | N/A       | N/A       | N/A     |  |

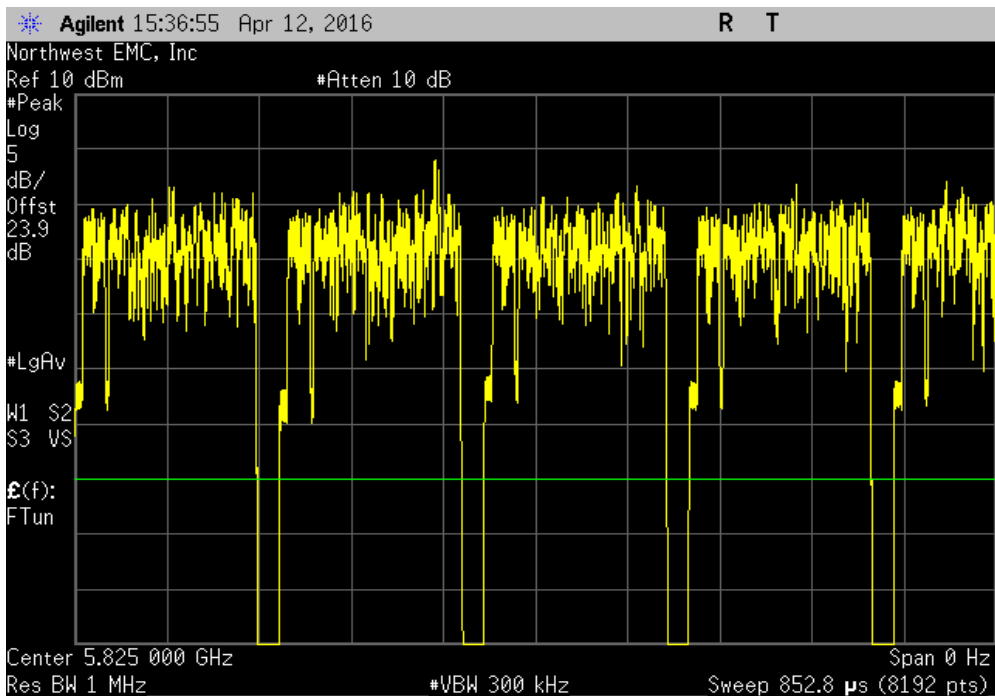


# DUTY CYCLE

| 2x2 MIMO, Chain A, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(ac) MCS8 |          |                  |           |           |         |  |
|-------------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                   | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 161.9 us                                                                      | 189.5 us | 1                | 85.4      | N/A       | N/A     |  |

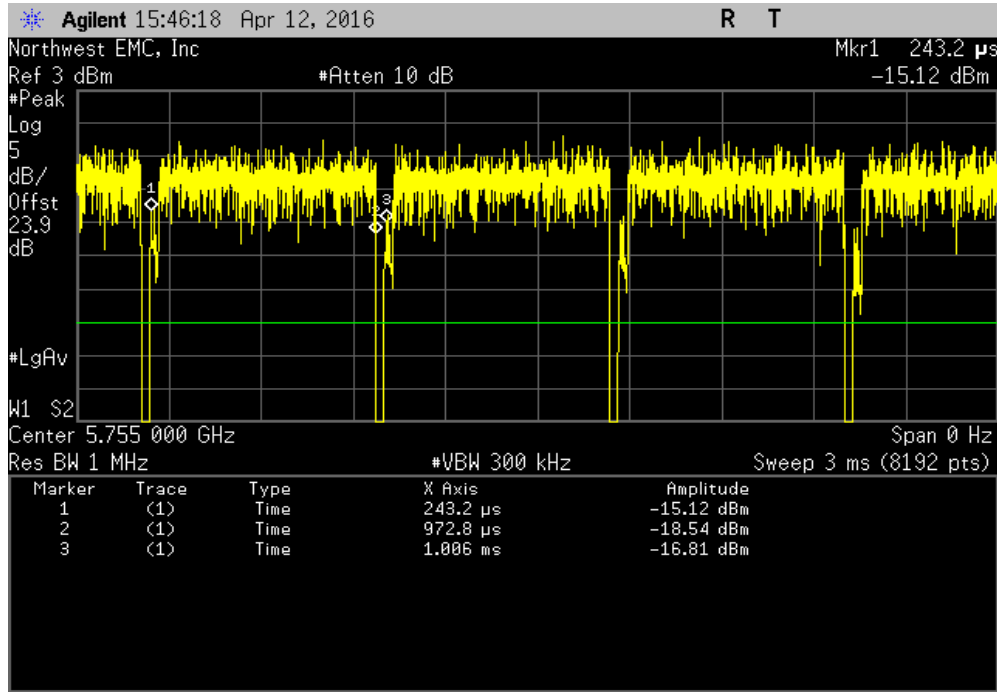


| 2x2 MIMO, Chain A, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(ac) MCS8 |        |                  |           |           |         |  |
|-------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                   | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                           | N/A    | 5                | N/A       | N/A       | N/A     |  |

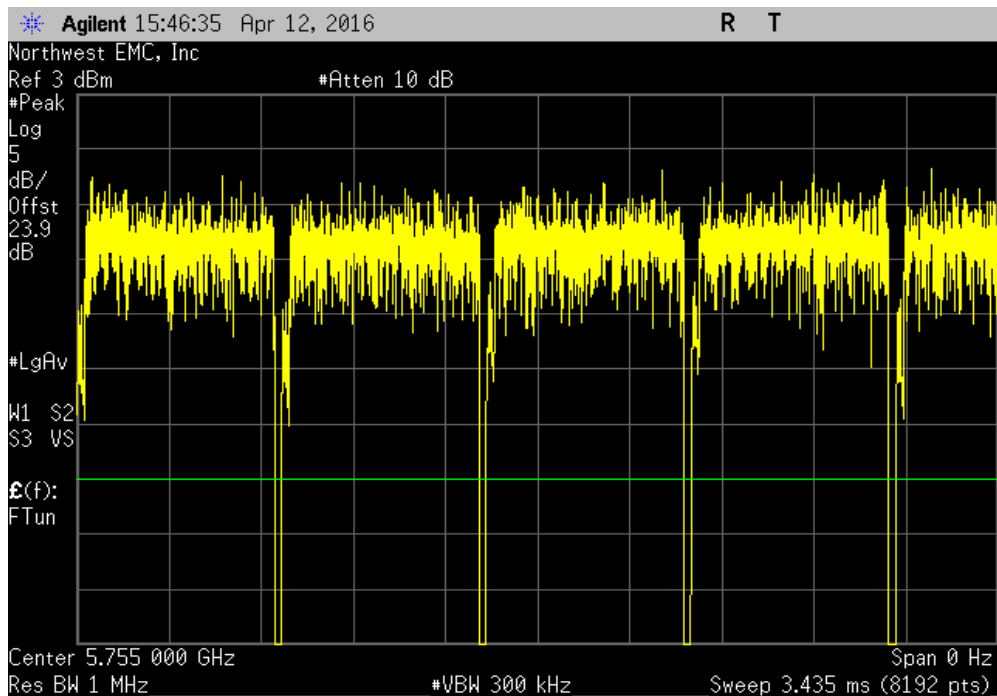


# DUTY CYCLE

| 2x2 MIMO, Chain A, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(n) MCS8 |            |                  |           |           |         |  |
|---------------------------------------------------------------------------------|------------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                     | Period     | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 729.54 us                                                                       | 763.269 us | 1                | 95.6      | N/A       | N/A     |  |



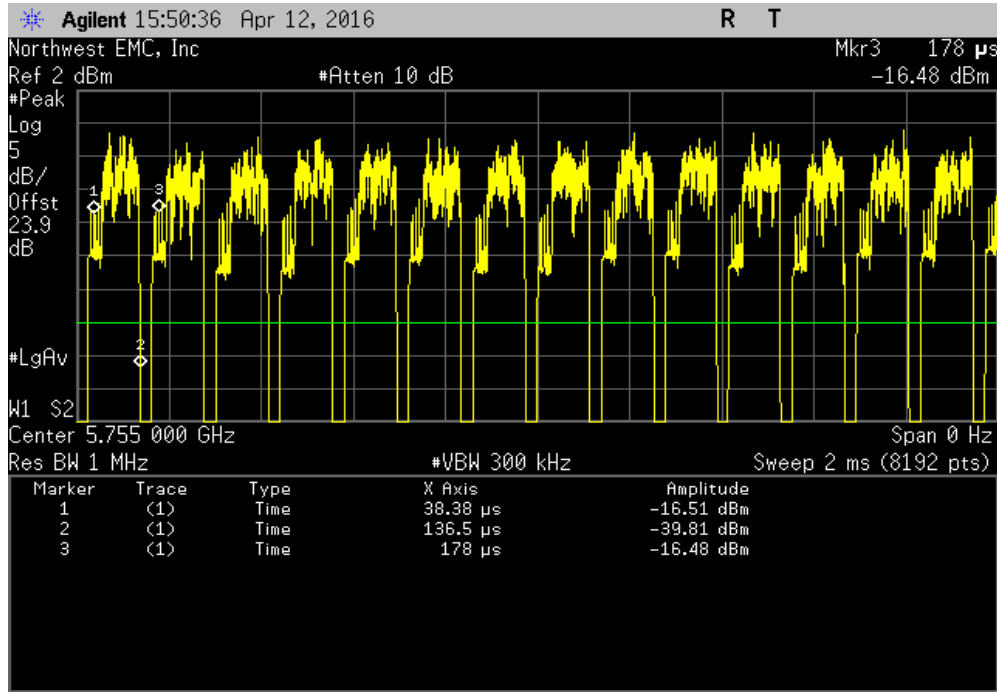
| 2x2 MIMO, Chain A, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(n) MCS8 |        |                  |           |           |         |  |
|---------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                     | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                             | N/A    | 5                | N/A       | N/A       | N/A     |  |



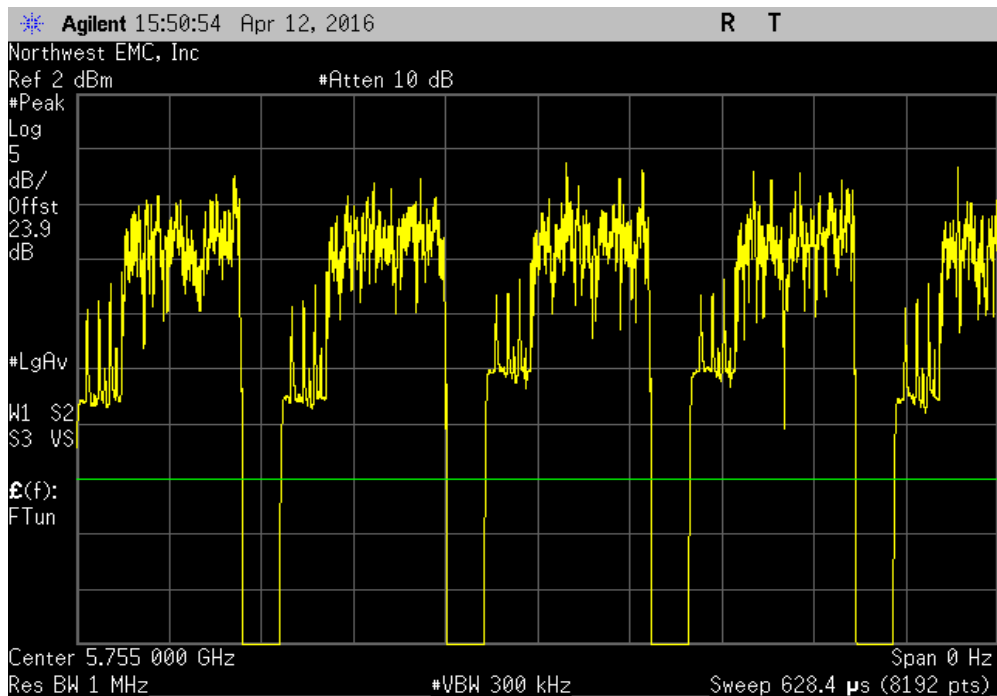


# DUTY CYCLE

| 2x2 MIMO, Chain A, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(n) MCS15 |            |                  |           |           |         |  |
|----------------------------------------------------------------------------------|------------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                      | Period     | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 98.115 us                                                                        | 139.644 us | 1                | 70.3      | N/A       | N/A     |  |

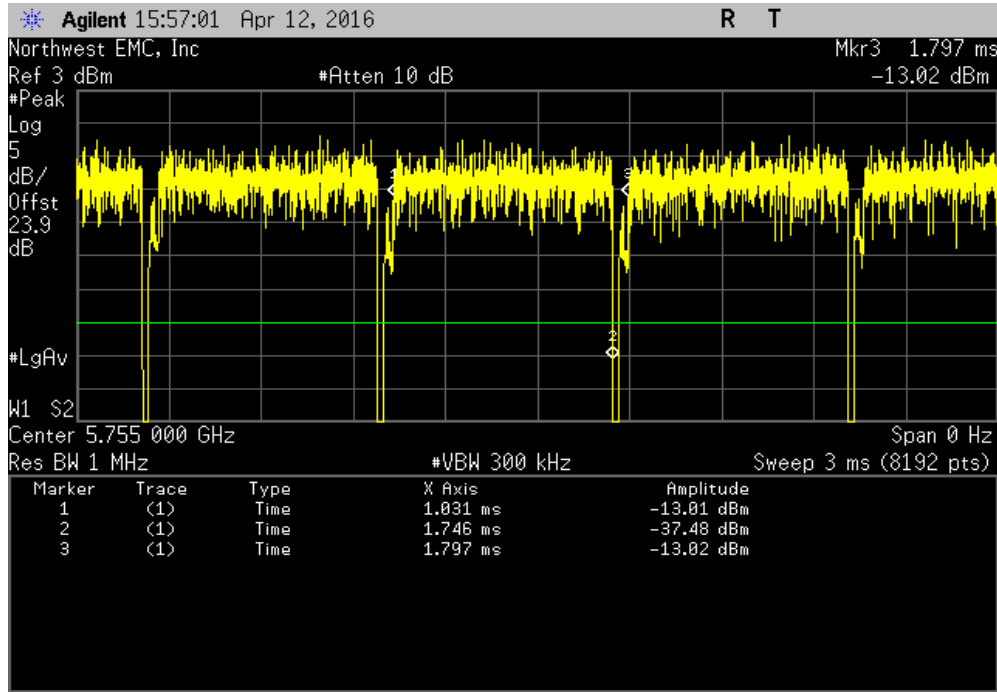


| 2x2 MIMO, Chain A, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(n) MCS15 |        |                  |           |           |         |  |
|----------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                      | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                              | N/A    | 5                | N/A       | N/A       | N/A     |  |

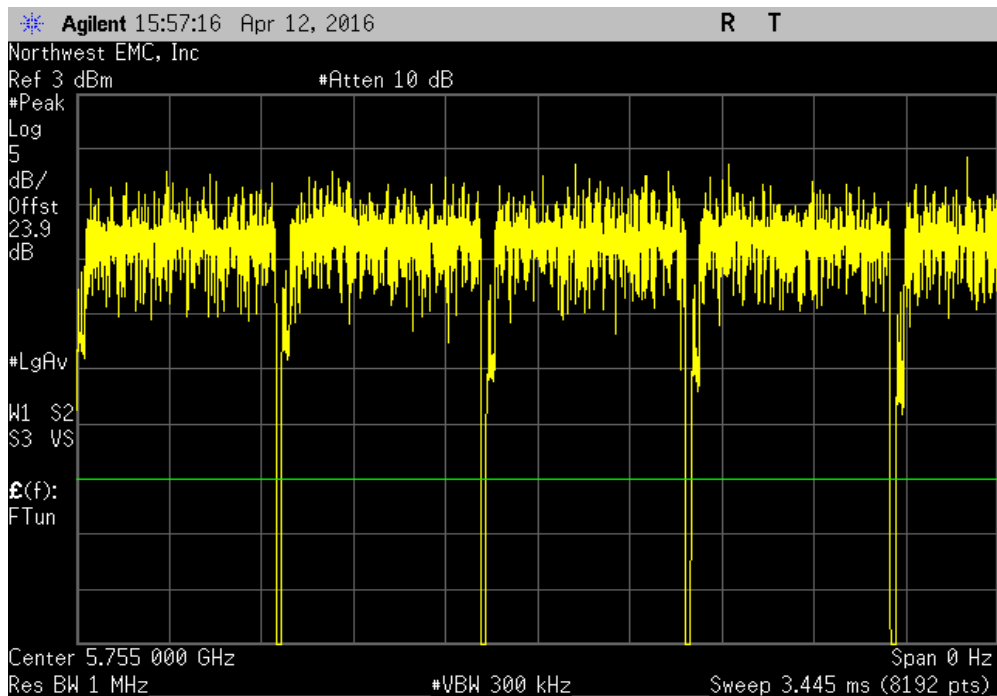


# DUTY CYCLE

| 2x2 MIMO, Chain A, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(ac) MCS0 |          |                  |           |           |         |  |
|----------------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                      | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 714.2 us                                                                         | 765.5 us | 1                | 93.3      | N/A       | N/A     |  |

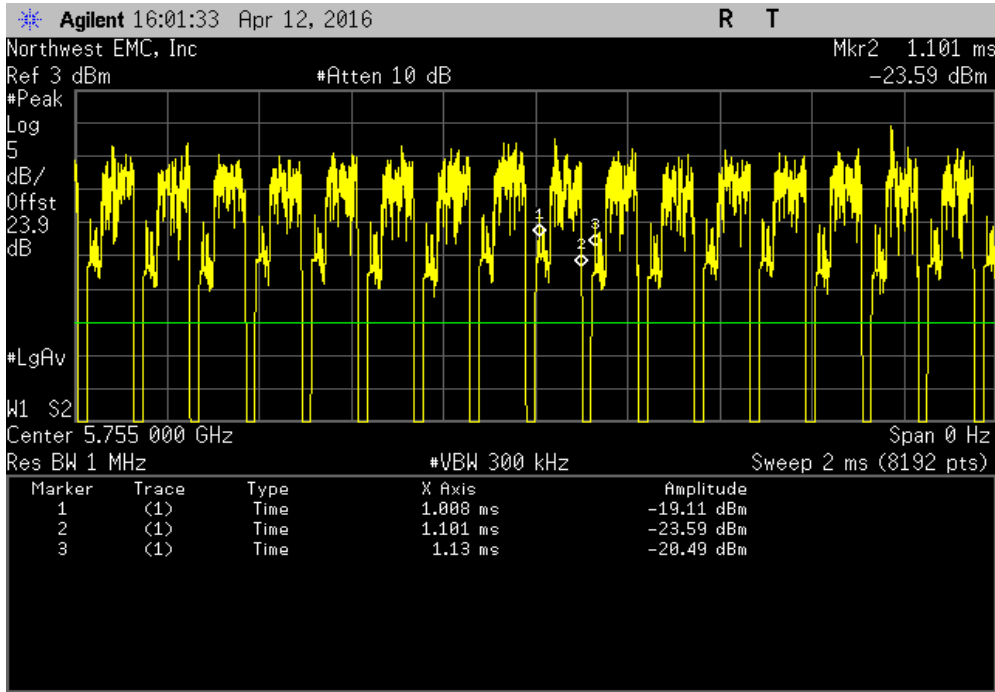


| 2x2 MIMO, Chain A, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(ac) MCS0 |        |                  |           |           |         |  |
|----------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                      | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                              | N/A    | 5                | N/A       | N/A       | N/A     |  |

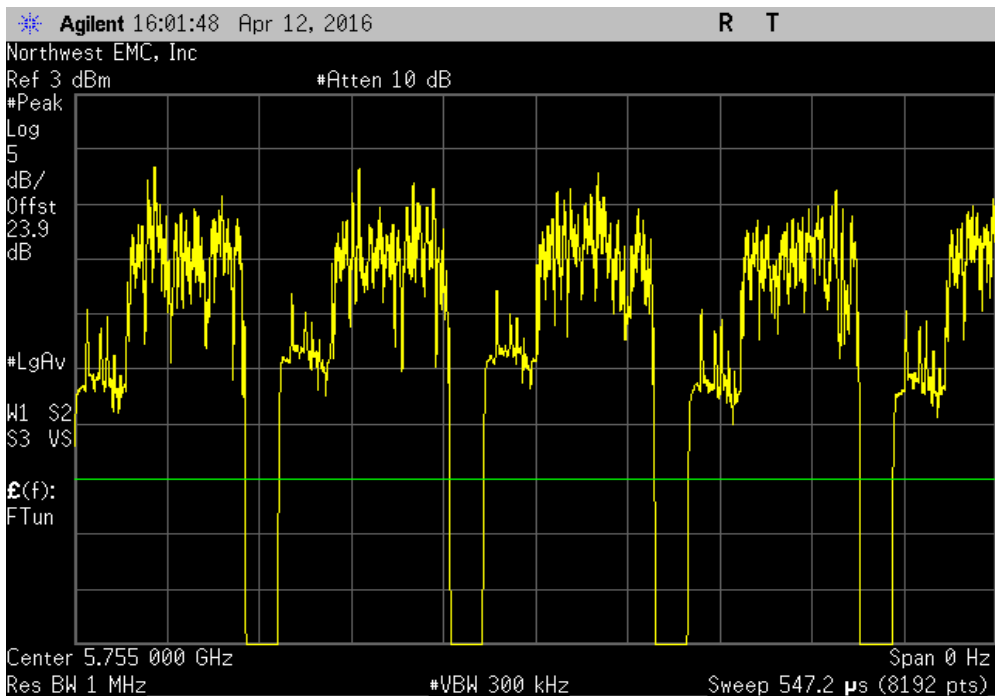


# DUTY CYCLE

| 2x2 MIMO, Chain A, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(ac) MCS9 |          |                  |           |           |         |  |
|----------------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                      | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 92.573 us                                                                        | 121.6 us | 1                | 76.1      | N/A       | N/A     |  |

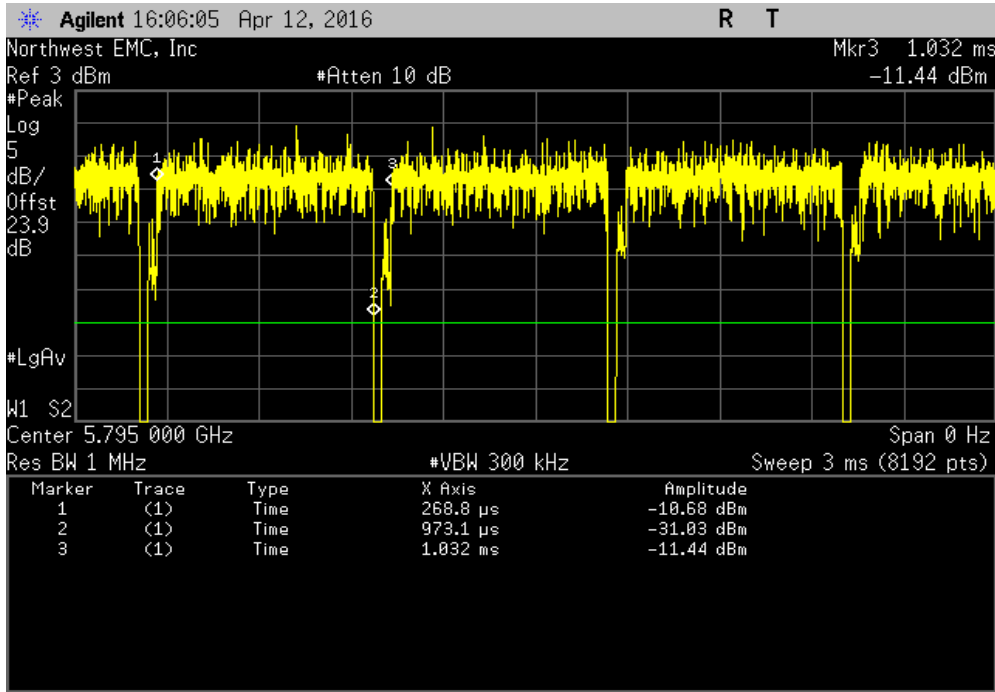


| 2x2 MIMO, Chain A, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(ac) MCS9 |        |                  |           |           |         |  |
|----------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                      | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                              | N/A    | 5                | N/A       | N/A       | N/A     |  |

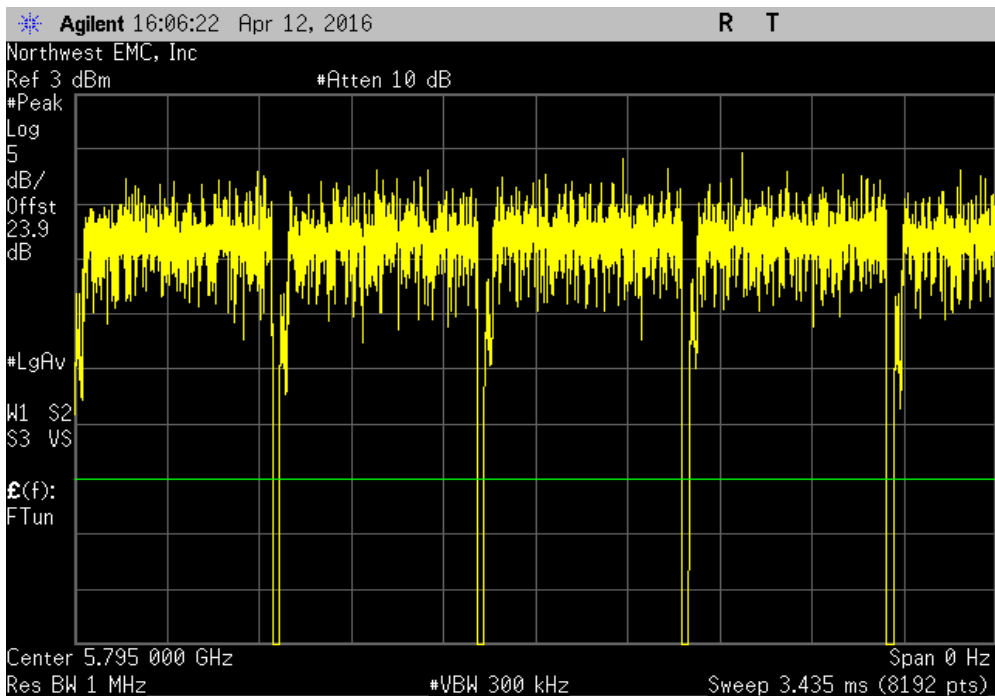


# DUTY CYCLE

| 2x2 MIMO, Chain A, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(n) MCS8 |          |                  |           |           |         |  |
|----------------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                      | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 704.3 us                                                                         | 763.3 us | 1                | 92.3      | N/A       | N/A     |  |

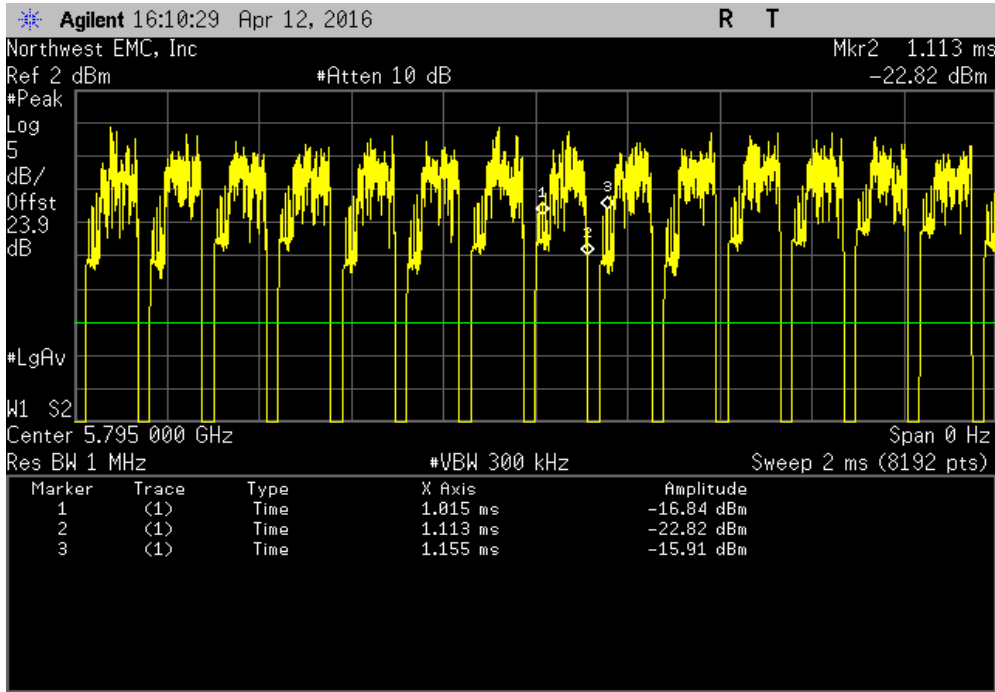


| 2x2 MIMO, Chain A, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(n) MCS8 |        |                  |           |           |         |  |
|----------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                      | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                              | N/A    | 5                | N/A       | N/A       | N/A     |  |

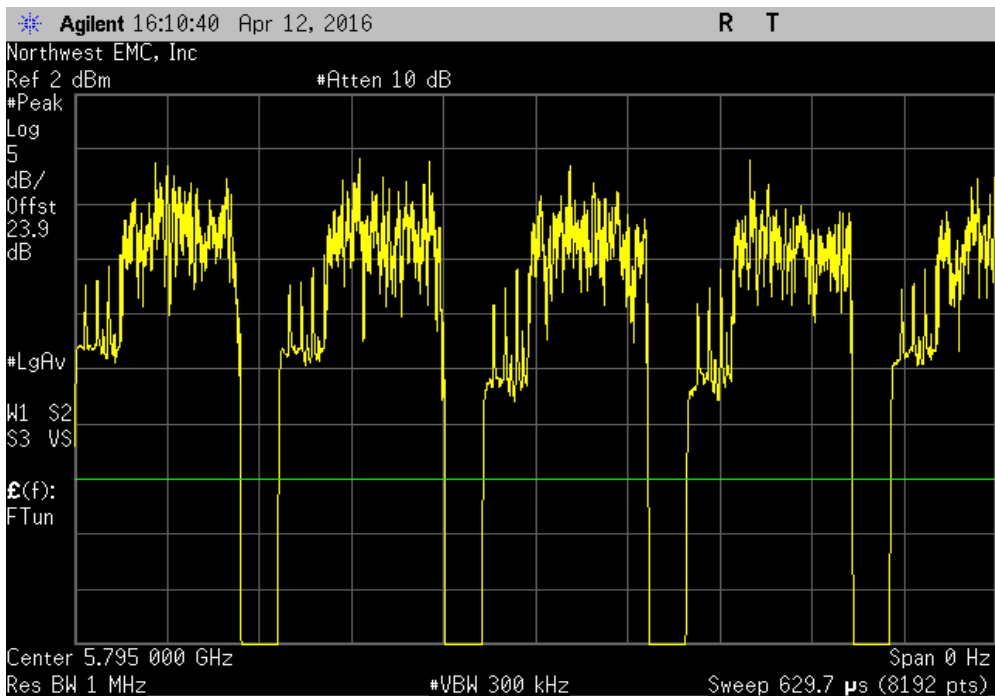


# DUTY CYCLE

| 2x2 MIMO, Chain A, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(n) MCS15 |            |                  |           |           |         |  |
|-----------------------------------------------------------------------------------|------------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                       | Period     | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 98.127 us                                                                         | 139.944 us | 1                | 70.1      | N/A       | N/A     |  |

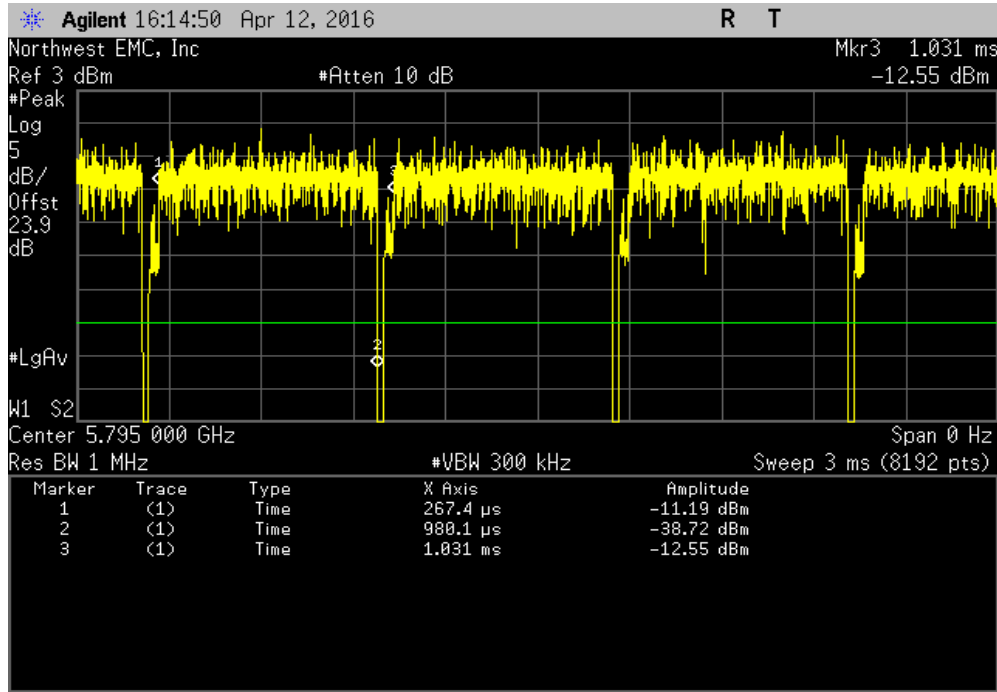


| 2x2 MIMO, Chain A, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(n) MCS15 |        |                  |           |           |         |  |
|-----------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                       | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                               | N/A    | 5                | N/A       | N/A       | N/A     |  |

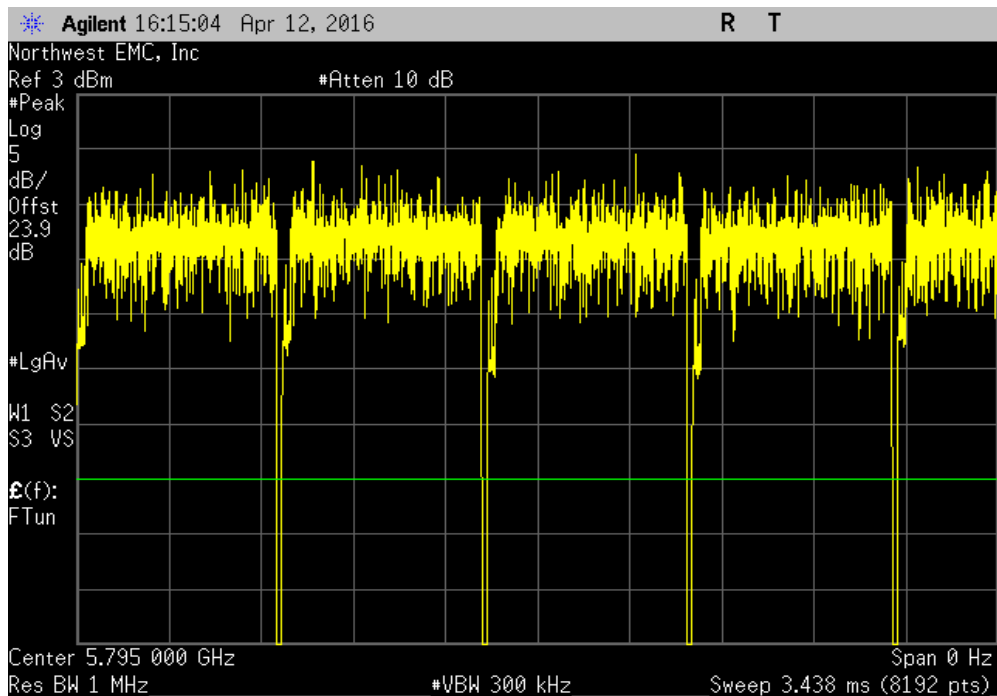


# DUTY CYCLE

| 2x2 MIMO, Chain A, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(ac) MCS0 |        |                  |           |           |         |  |
|-----------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                       | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 712.7 us                                                                          | 764 us | 1                | 93.3      | N/A       | N/A     |  |

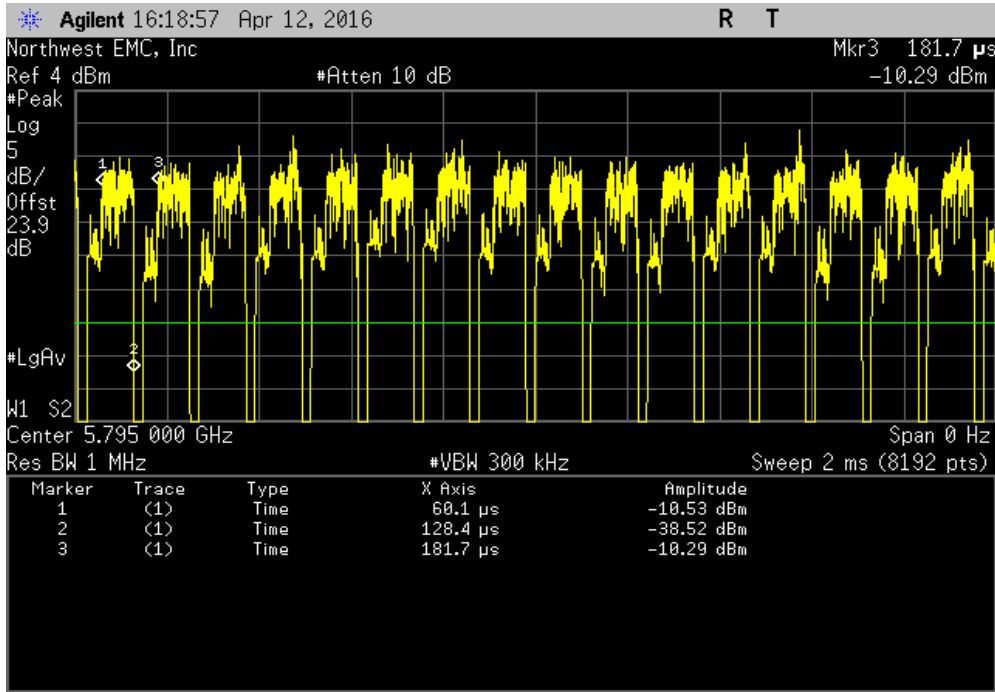


| 2x2 MIMO, Chain A, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(ac) MCS0 |        |                  |           |           |         |  |
|-----------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                       | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                               | N/A    | 5                | N/A       | N/A       | N/A     |  |

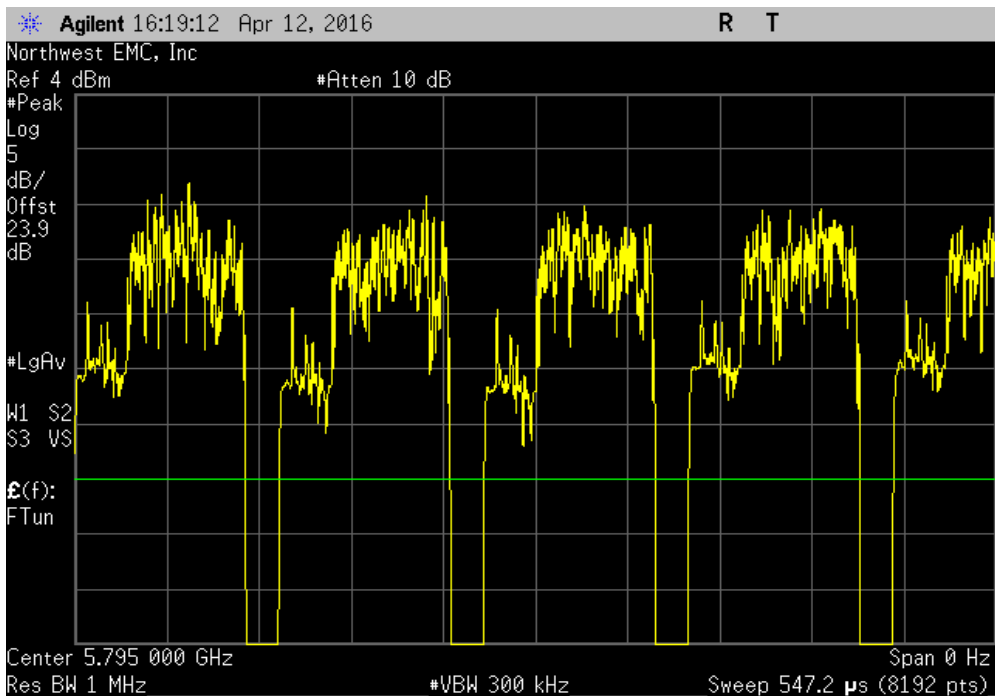


# DUTY CYCLE

| 2x2 MIMO, Chain A, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(ac) MCS9 |          |                  |           |           |         |  |
|-----------------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                       | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 68.3 us                                                                           | 121.6 us | 1                | 56.2      | N/A       | N/A     |  |

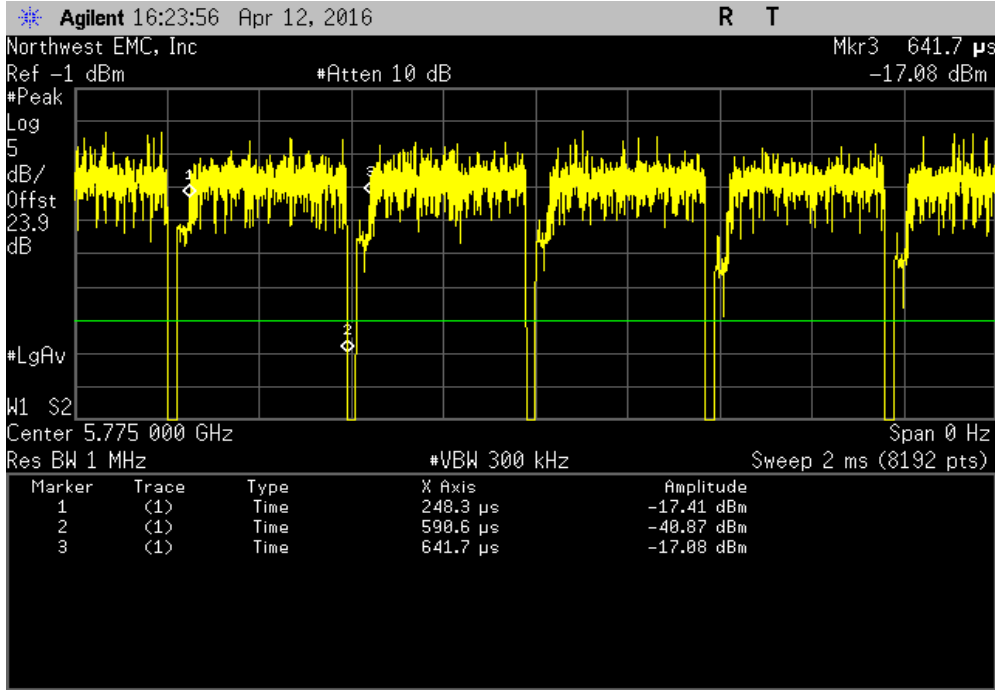


| 2x2 MIMO, Chain A, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(ac) MCS9 |        |                  |           |           |         |  |
|-----------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                       | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                               | N/A    | 5                | N/A       | N/A       | N/A     |  |

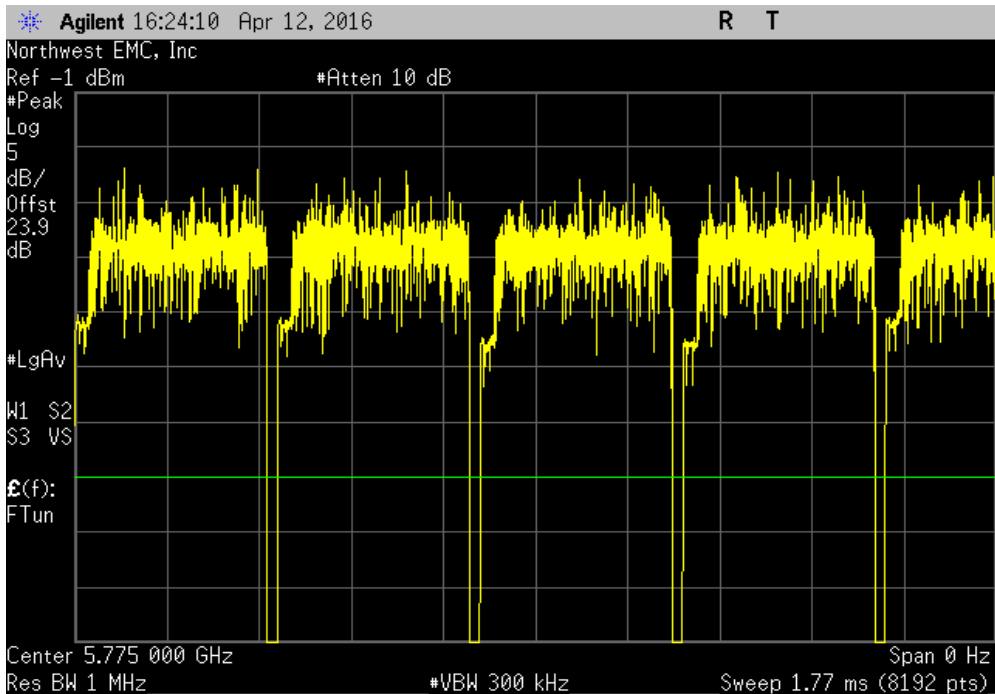


# DUTY CYCLE

| 2x2 MIMO, Chain A, 80MHz BW, Mid Channel, Ch 149/161 - 5775 MHz, 802.11(ac) MCS0 |          |                  |           |           |         |  |
|----------------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                      | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 342.3 us                                                                         | 393.4 us | 1                | 87        | N/A       | N/A     |  |



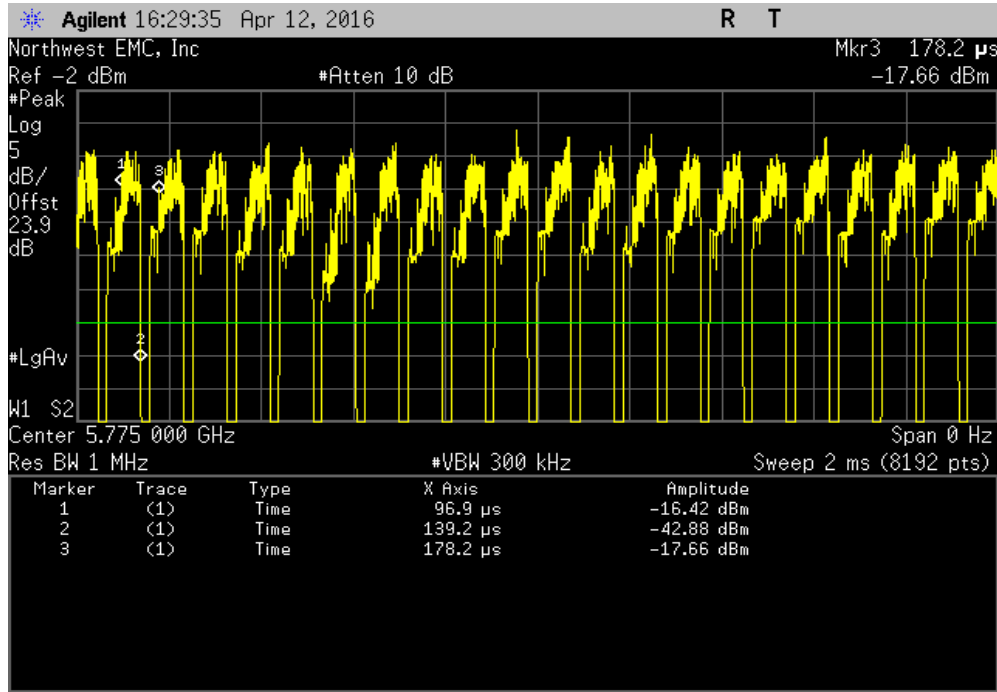
| 2x2 MIMO, Chain A, 80MHz BW, Mid Channel, Ch 149/161 - 5775 MHz, 802.11(ac) MCS0 |        |                  |           |           |         |  |
|----------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                      | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                              | N/A    | 5                | N/A       | N/A       | N/A     |  |



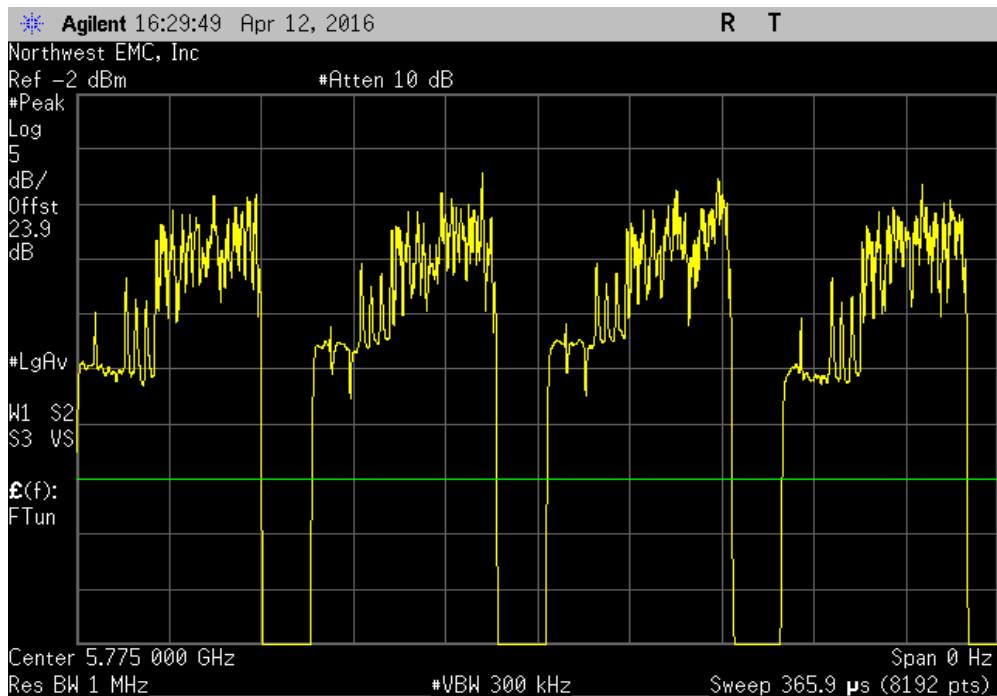


# DUTY CYCLE

| 2x2 MIMO, Chain A, 80MHz BW, Mid Channel, Ch 149/161 - 5775 MHz, 802.11(ac) MCS9 |         |                  |           |           |         |  |
|----------------------------------------------------------------------------------|---------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                      | Period  | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 42.3 us                                                                          | 81.3 us | 1                | 52        | N/A       | N/A     |  |

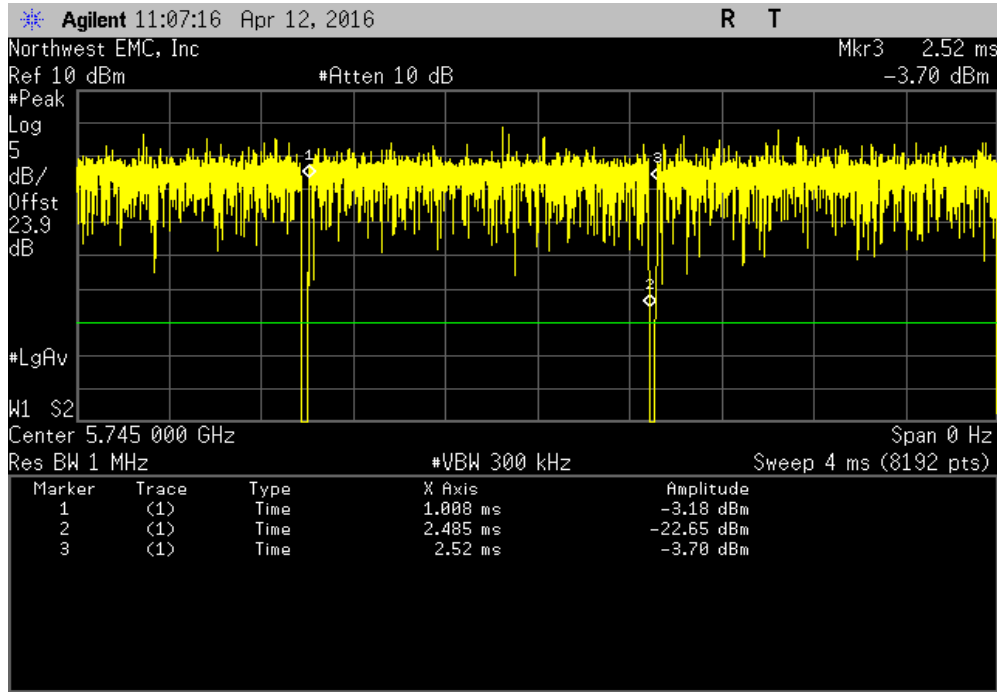


| 2x2 MIMO, Chain A, 80MHz BW, Mid Channel, Ch 149/161 - 5775 MHz, 802.11(ac) MCS9 |        |                  |           |           |         |  |
|----------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                      | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                              | N/A    | 4                | N/A       | N/A       | N/A     |  |

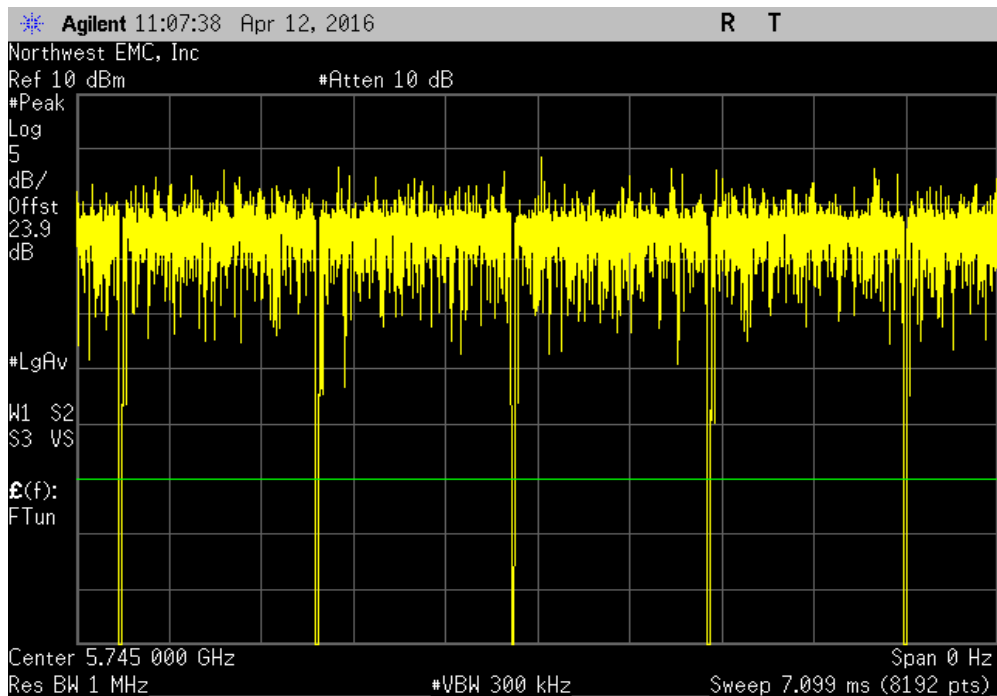


# DUTY CYCLE

| 2x2 MIMO, Chain B, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(n) MCS8 |          |                  |           |           |         |  |
|-----------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                 | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 1.477 ms                                                                    | 1.511 ms | 1                | 97.7      | N/A       | N/A     |  |

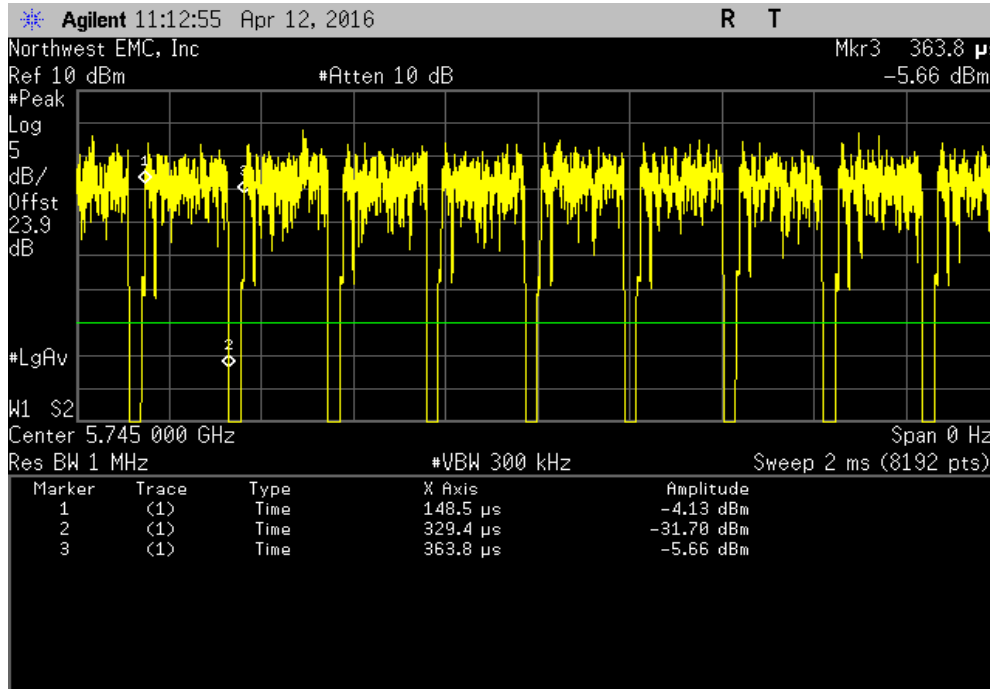


| 2x2 MIMO, Chain B, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(n) MCS8 |        |                  |           |           |         |  |
|-----------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                 | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                         | N/A    | 6                | N/A       | N/A       | N/A     |  |

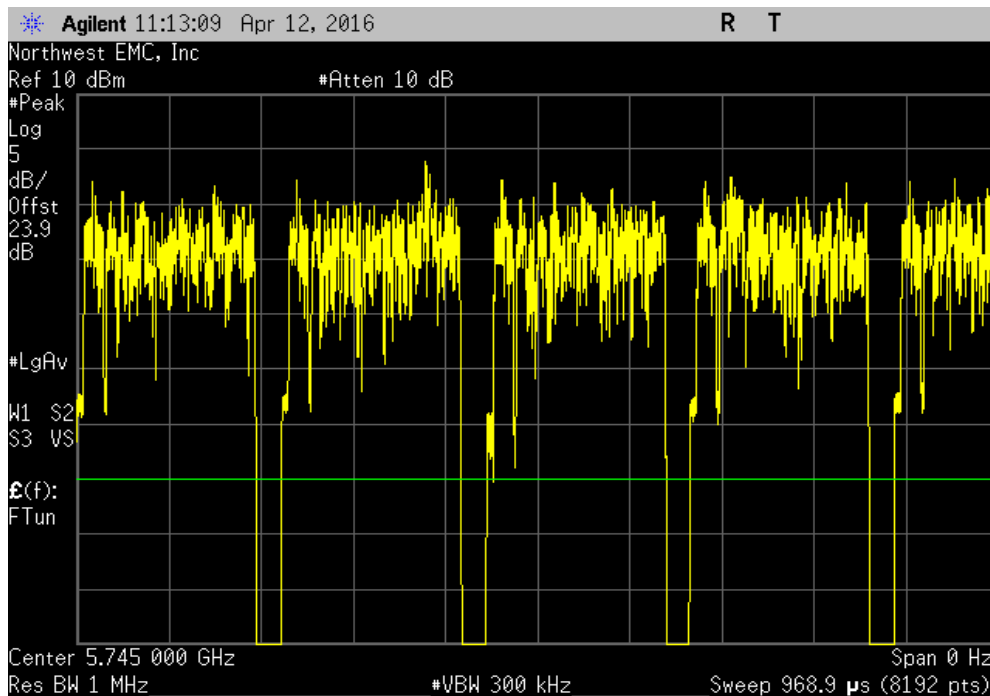


# DUTY CYCLE

| 2x2 MIMO, Chain B, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(n) MCS15 |          |                  |           |           |         |  |
|------------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                  | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 180.9 us                                                                     | 215.3 us | 1                | 84        | N/A       | N/A     |  |

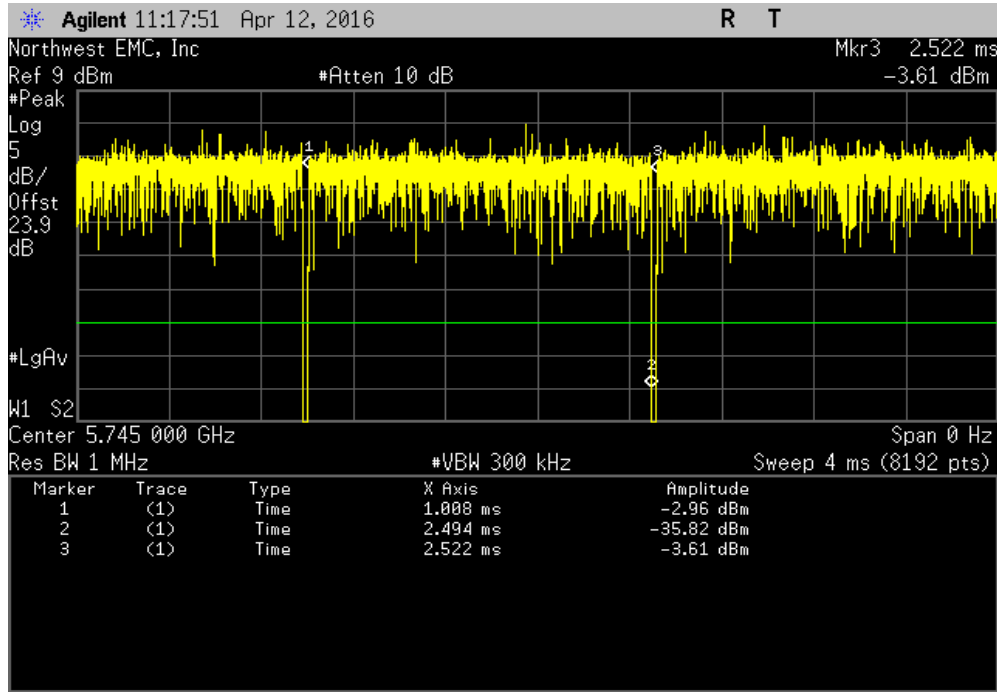


| 2x2 MIMO, Chain B, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(n) MCS15 |        |                  |           |           |         |  |
|------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                  | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                          | N/A    | 5                | N/A       | N/A       | N/A     |  |

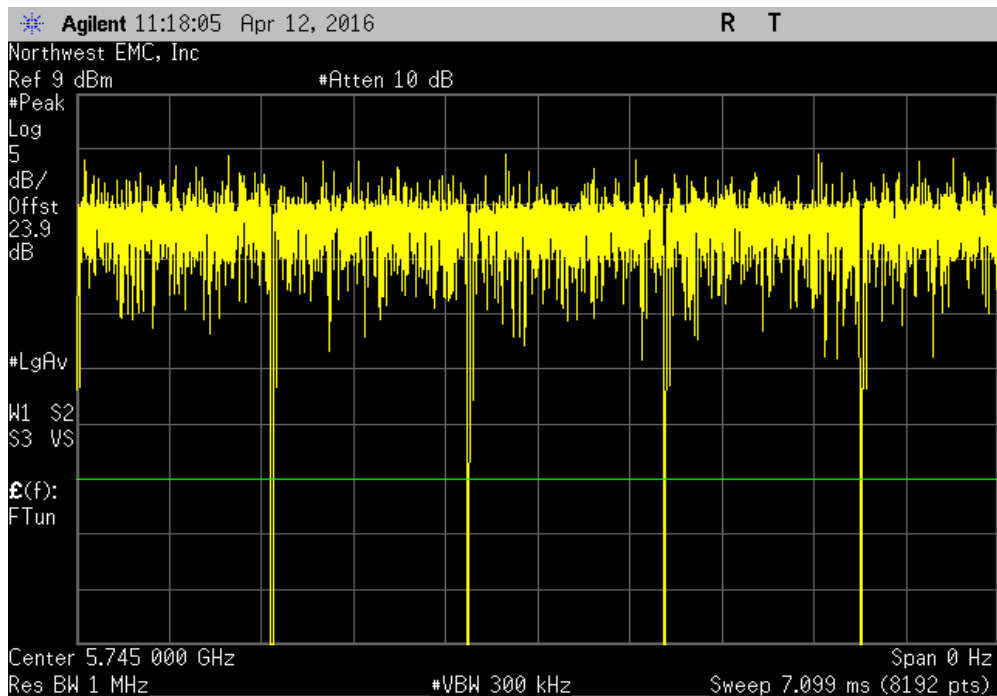


# DUTY CYCLE

| 2x2 MIMO, Chain B, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(ac) MCS0 |          |                  |           |           |         |  |
|------------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                  | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 1.485 ms                                                                     | 1.513 ms | 1                | 98.1      | N/A       | N/A     |  |

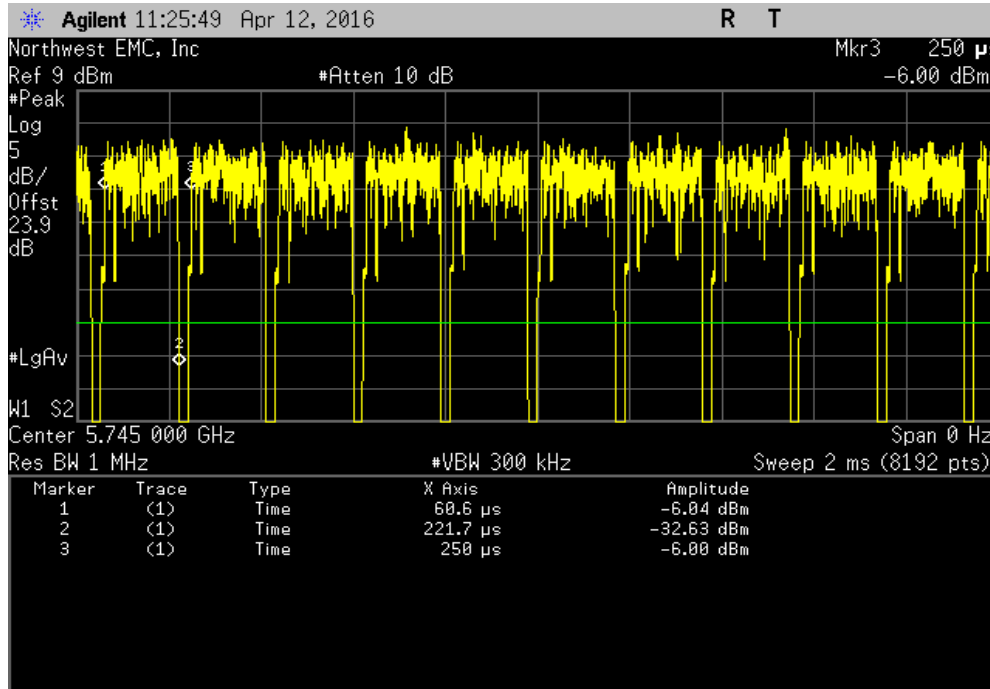


| 2x2 MIMO, Chain B, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(ac) MCS0 |        |                  |           |           |         |  |
|------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                  | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                          | N/A    | 5                | N/A       | N/A       | N/A     |  |

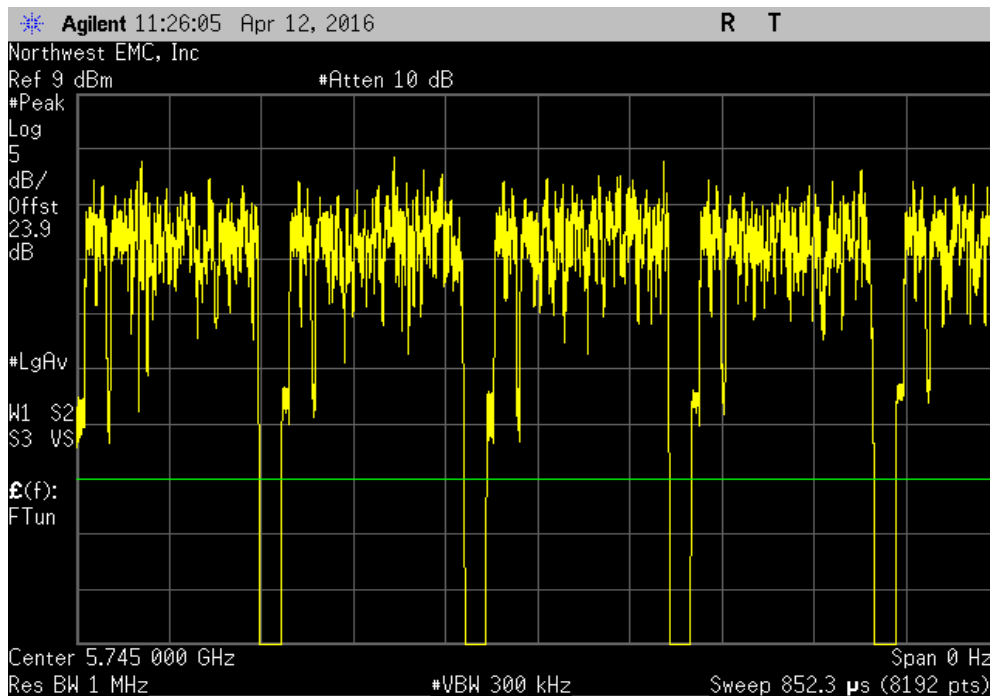


# DUTY CYCLE

| 2x2 MIMO, Chain B, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(ac) MCS8 |          |                  |           |           |         |  |
|------------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                  | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 161.1 us                                                                     | 189.4 us | 1                | 85.1      | N/A       | N/A     |  |

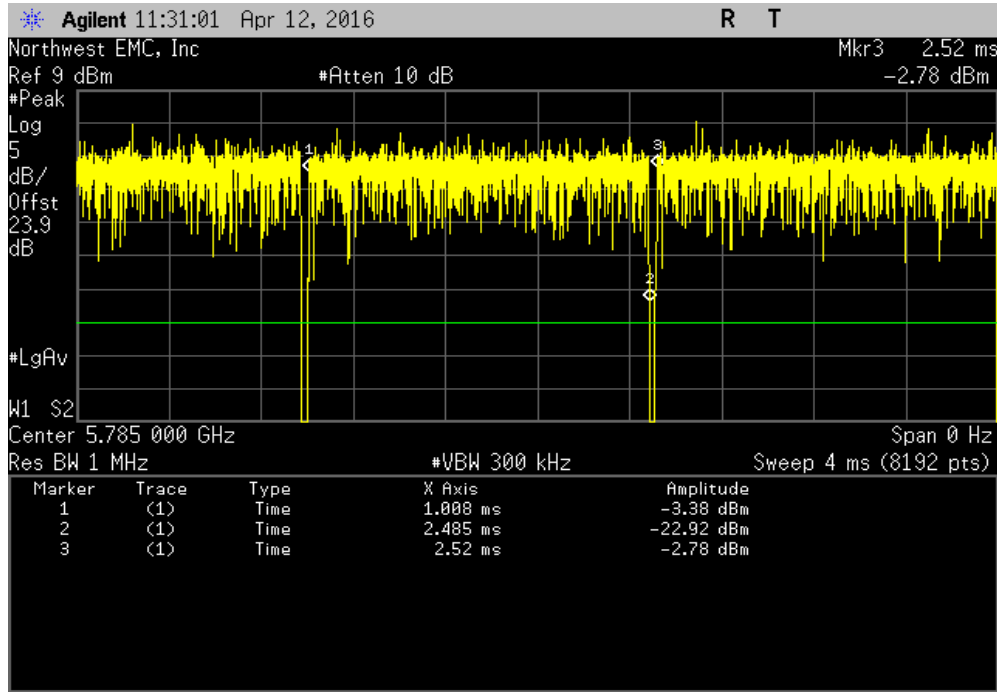


| 2x2 MIMO, Chain B, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(ac) MCS8 |        |                  |           |           |         |  |
|------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                  | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                          | N/A    | 5                | N/A       | N/A       | N/A     |  |

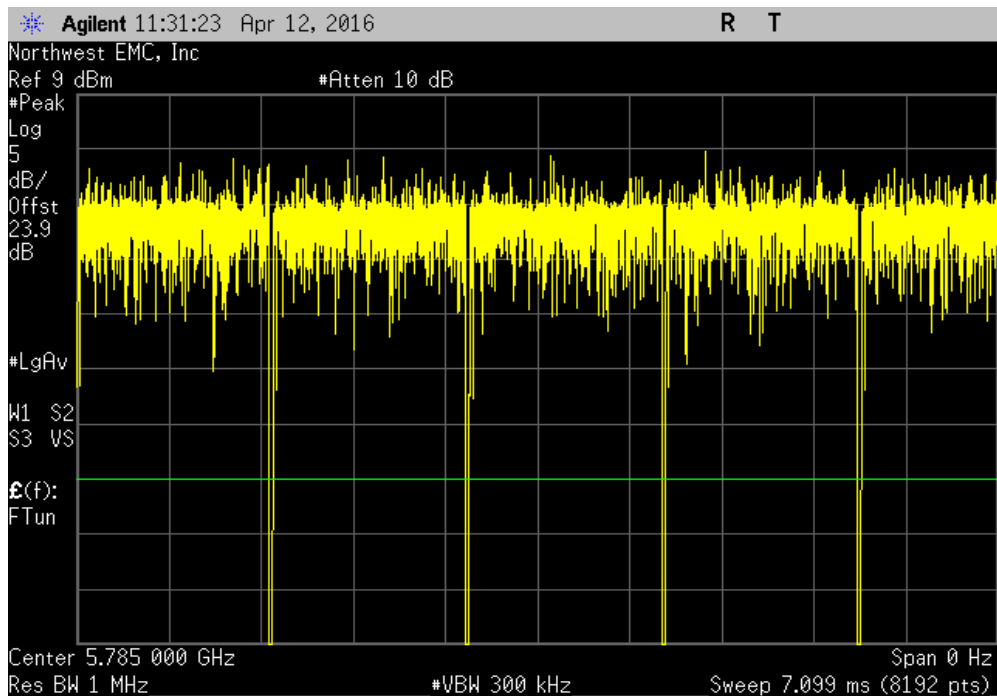


# DUTY CYCLE

| 2x2 MIMO, Chain B, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(n) MCS8 |          |                  |           |           |         |  |
|-----------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                 | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 1.477 ms                                                                    | 1.511 ms | 1                | 97.7      | N/A       | N/A     |  |

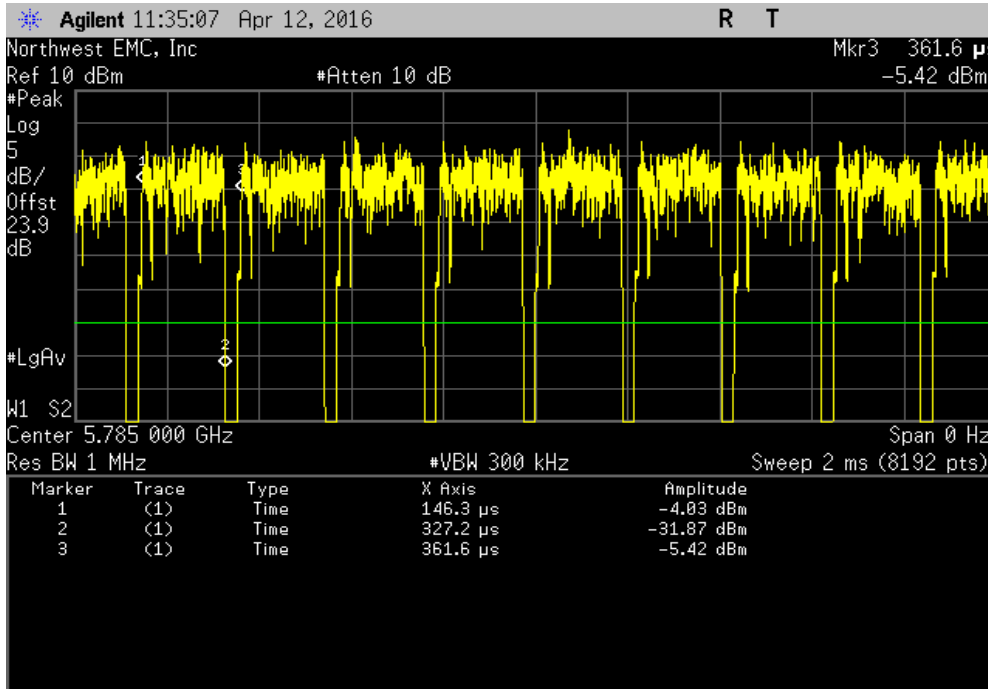


| 2x2 MIMO, Chain B, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(n) MCS8 |        |                  |           |           |         |  |
|-----------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                 | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                         | N/A    | 5                | N/A       | N/A       | N/A     |  |

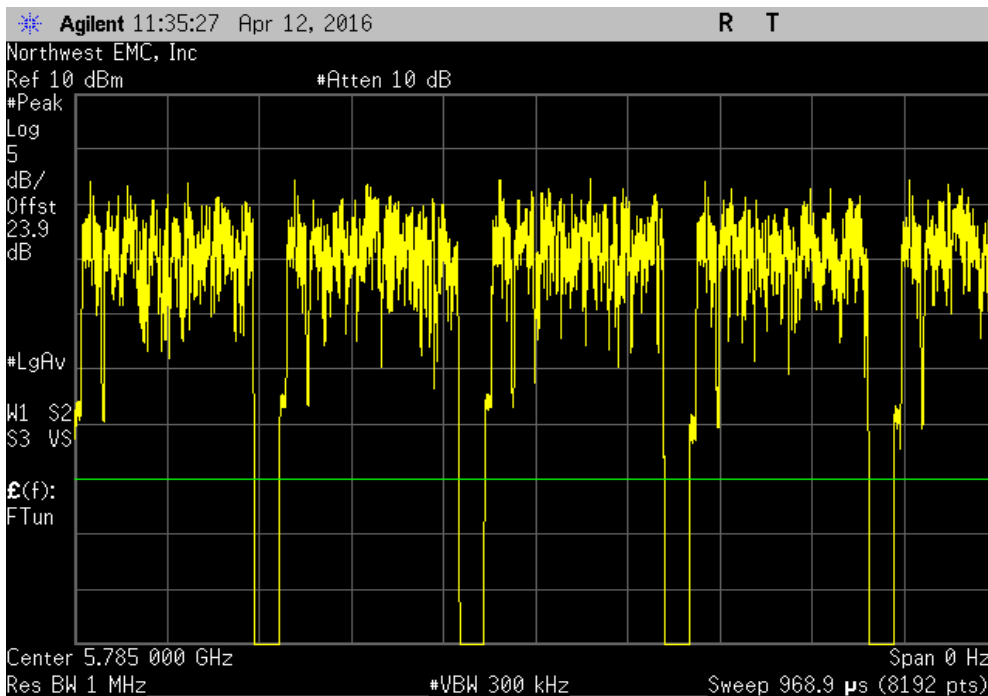


# DUTY CYCLE

| 2x2 MIMO, Chain B, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(n) MCS15 |          |                  |           |           |         |  |
|------------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                  | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 180.9 us                                                                     | 215.3 us | 1                | 84        | N/A       | N/A     |  |

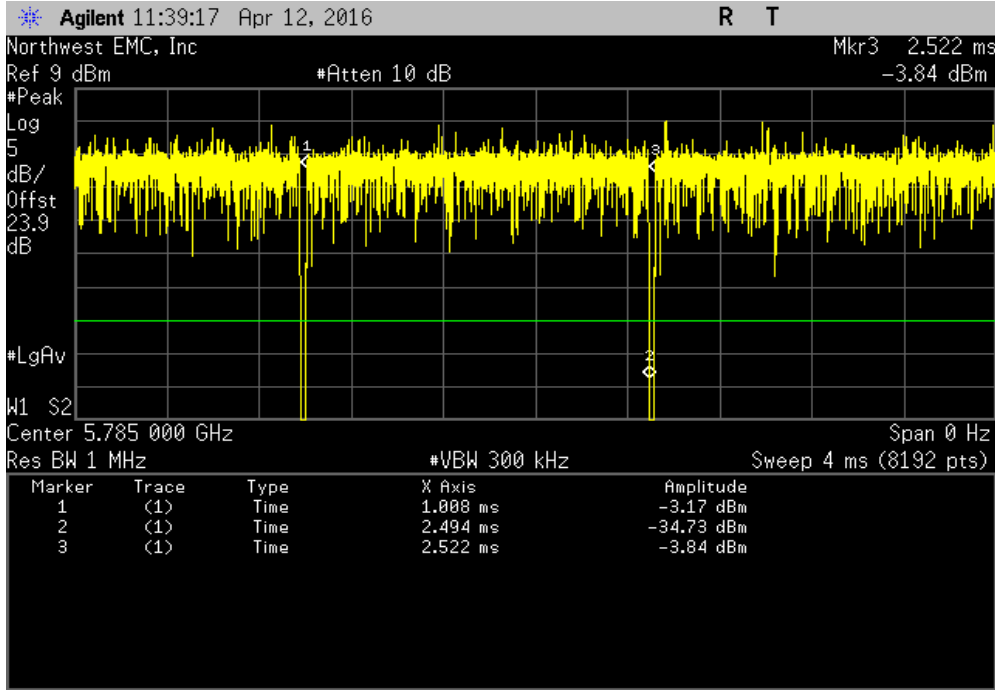


| 2x2 MIMO, Chain B, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(n) MCS15 |        |                  |           |           |         |  |
|------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                  | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                          | N/A    | 5                | N/A       | N/A       | N/A     |  |

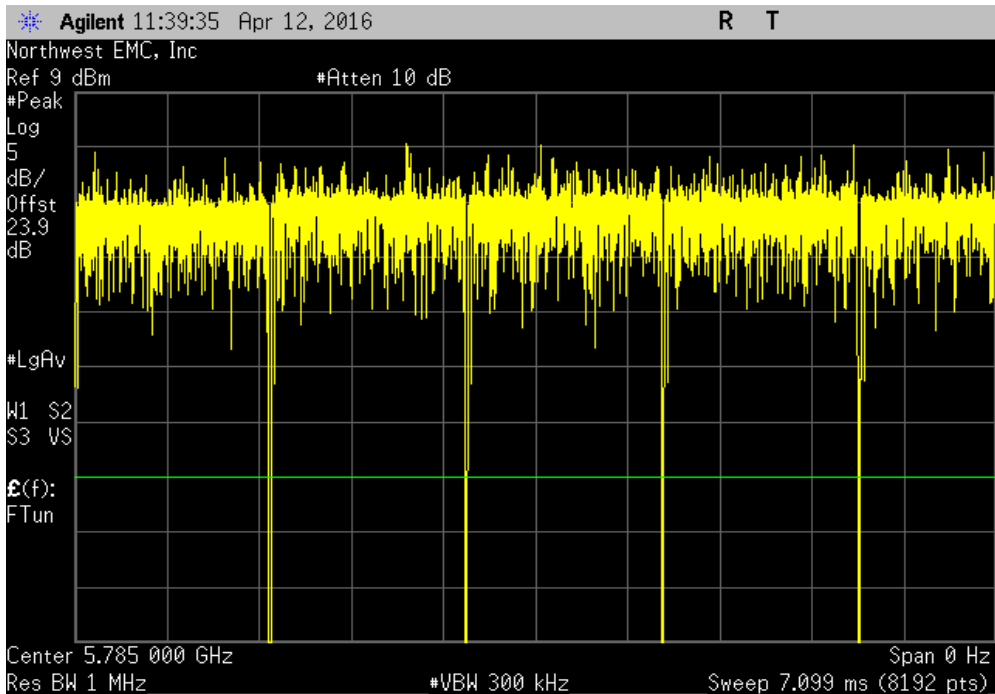


# DUTY CYCLE

| 2x2 MIMO, Chain B, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(ac) MCS0 |          |                  |           |           |         |  |
|------------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                  | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 1.485 ms                                                                     | 1.513 ms | 1                | 98.1      | N/A       | N/A     |  |



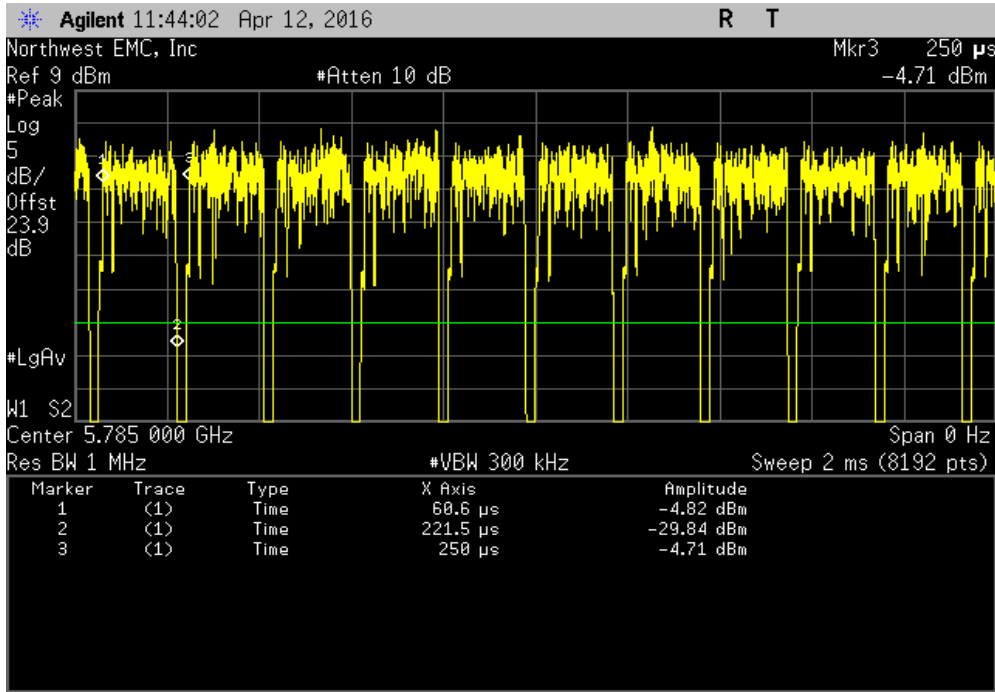
| 2x2 MIMO, Chain B, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(ac) MCS0 |        |                  |           |           |         |  |
|------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                  | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                          | N/A    | 5                | N/A       | N/A       | N/A     |  |



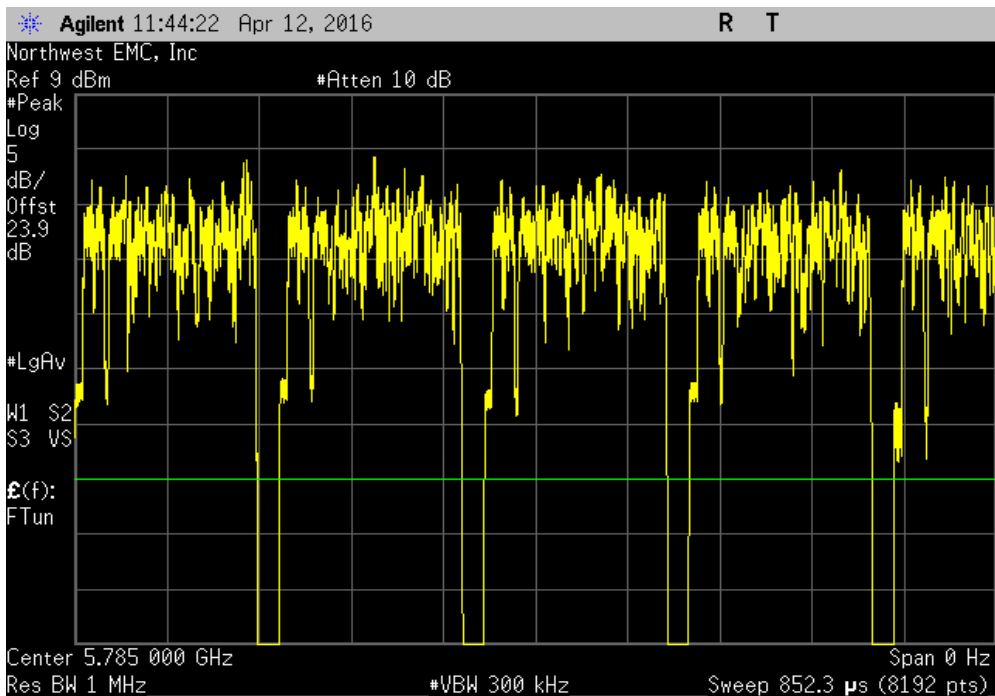


# DUTY CYCLE

| 2x2 MIMO, Chain B, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(ac) MCS8 |          |                  |           |           |         |  |
|------------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                  | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 160.9 us                                                                     | 189.4 us | 1                | 85        | N/A       | N/A     |  |

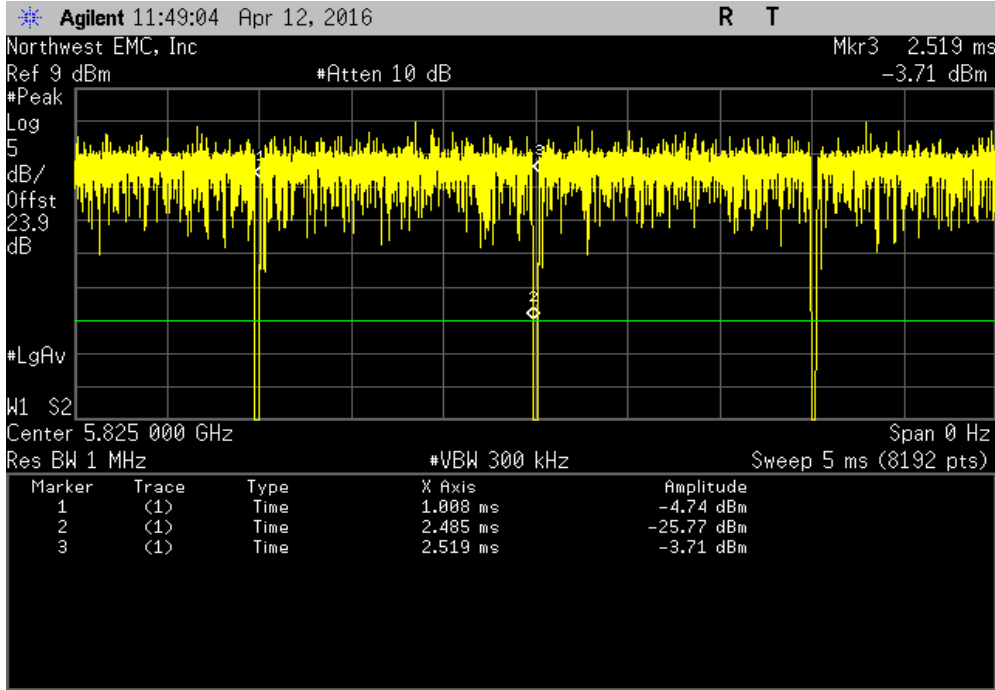


| 2x2 MIMO, Chain B, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(ac) MCS8 |        |                  |           |           |         |  |
|------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                  | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                          | N/A    | 5                | N/A       | N/A       | N/A     |  |

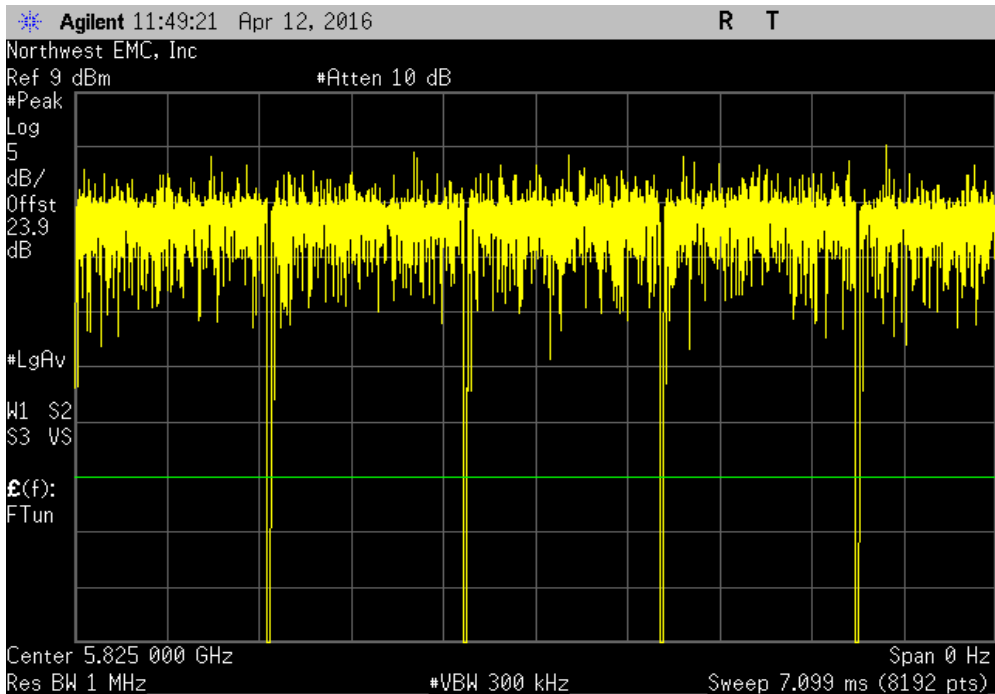


# DUTY CYCLE

| 2x2 MIMO, Chain B, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(n) MCS8 |          |                  |           |           |         |  |
|------------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                  | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 1.477 ms                                                                     | 1.511 ms | 1                | 97.7      | N/A       | N/A     |  |

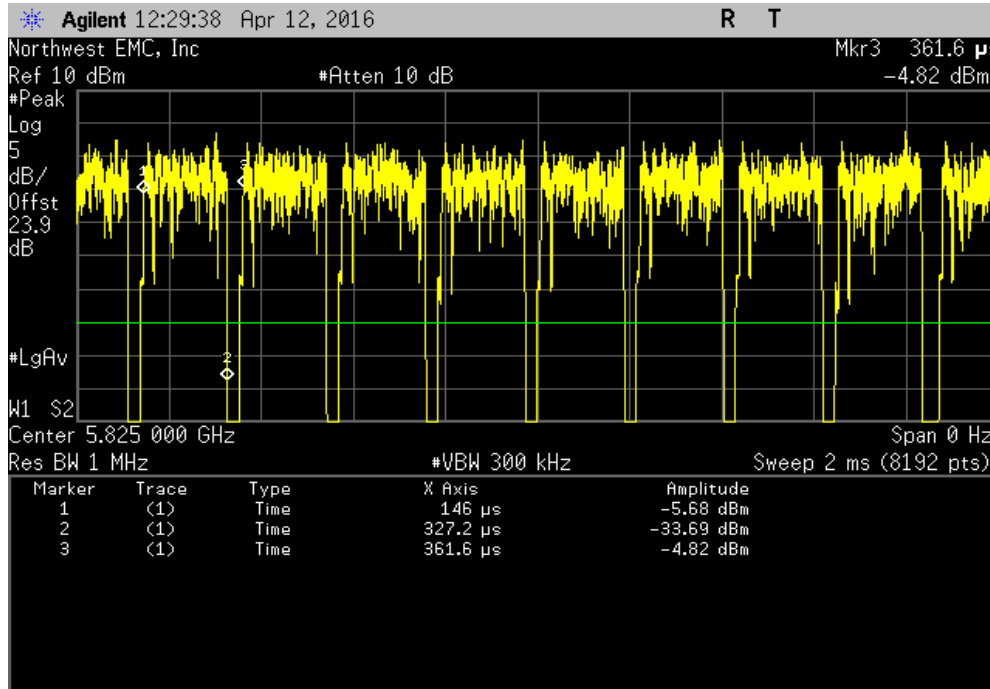


| 2x2 MIMO, Chain B, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(n) MCS8 |        |                  |           |           |         |  |
|------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                  | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                          | N/A    | 5                | N/A       | N/A       | N/A     |  |

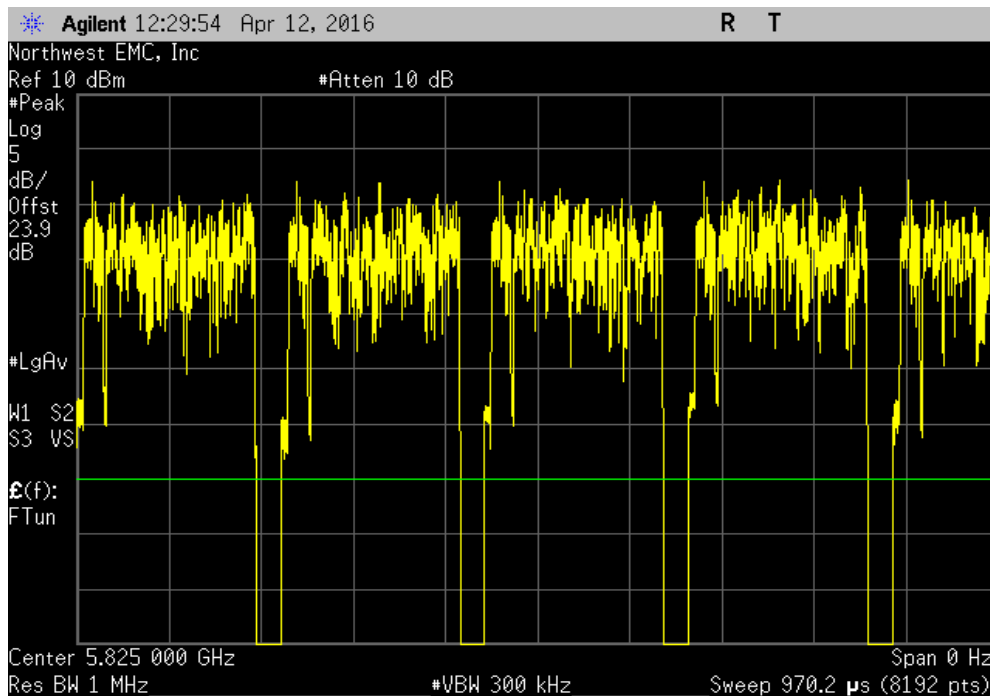


# DUTY CYCLE

| 2x2 MIMO, Chain B, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(n) MCS15 |          |                  |           |           |         |  |
|-------------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                   | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 181.2 us                                                                      | 215.6 us | 1                | 84        | N/A       | N/A     |  |

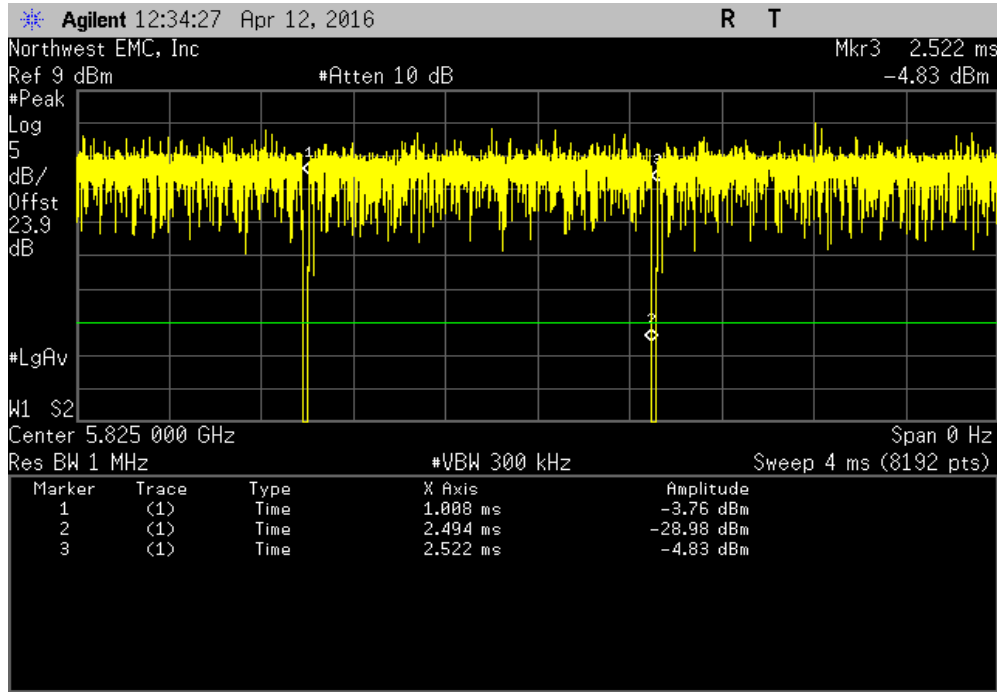


| 2x2 MIMO, Chain B, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(n) MCS15 |        |                  |           |           |         |  |
|-------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                   | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                           | N/A    | 5                | N/A       | N/A       | N/A     |  |

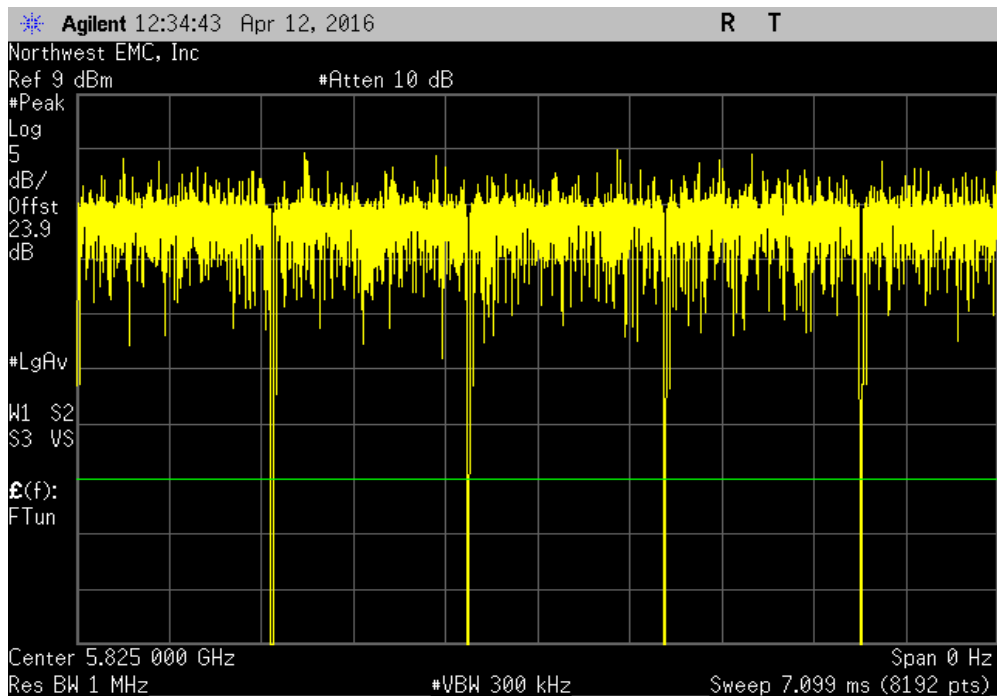


# DUTY CYCLE

| 2x2 MIMO, Chain B, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(ac) MCS0 |          |                  |           |           |         |  |
|-------------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                   | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 1.485 ms                                                                      | 1.513 ms | 1                | 98.1      | N/A       | N/A     |  |

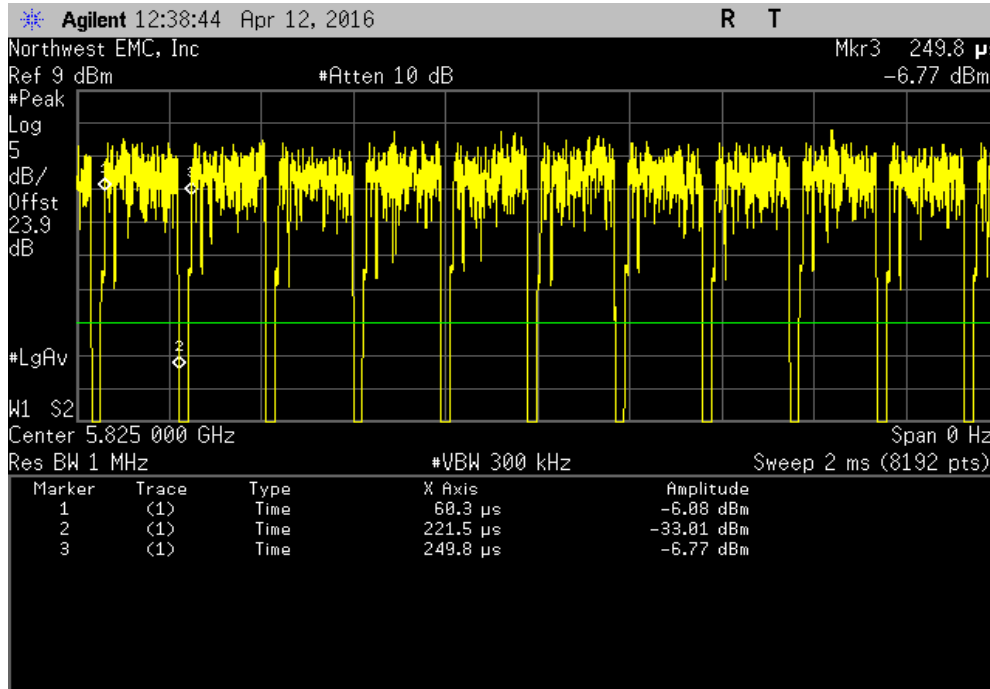


| 2x2 MIMO, Chain B, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(ac) MCS0 |        |                  |           |           |         |  |
|-------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                   | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                           | N/A    | 5                | N/A       | N/A       | N/A     |  |



# DUTY CYCLE

| 2x2 MIMO, Chain B, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(ac) MCS8 |          |                  |           |           |         |  |
|-------------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                   | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 161.2 us                                                                      | 189.5 us | 1                | 85.1      | N/A       | N/A     |  |

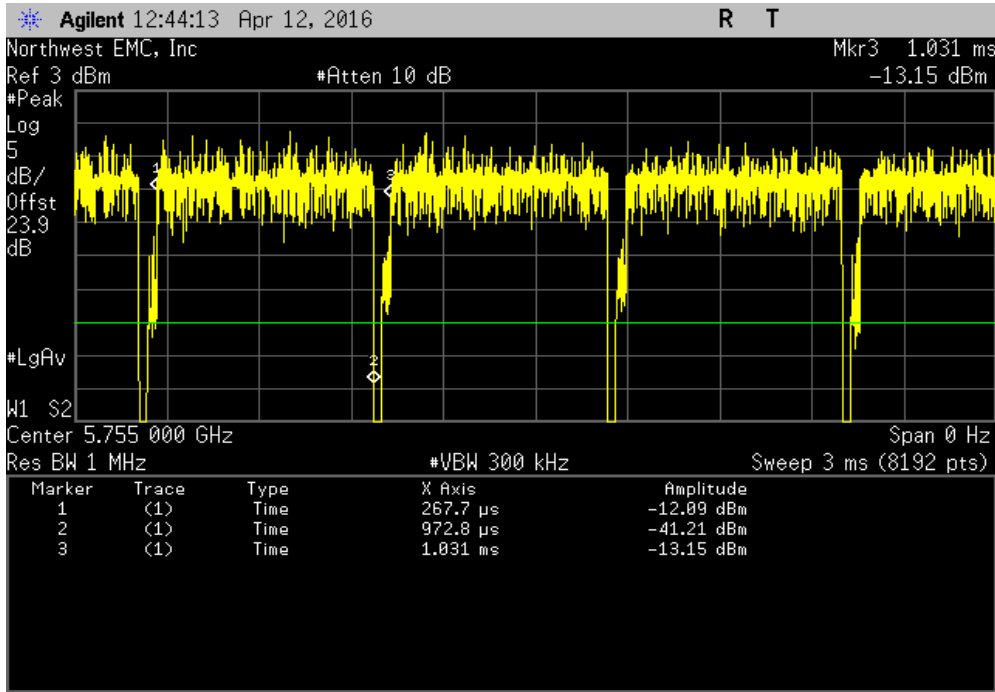


| 2x2 MIMO, Chain B, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(ac) MCS8 |        |                  |           |           |         |  |
|-------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                   | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                           | N/A    | 5                | N/A       | N/A       | N/A     |  |

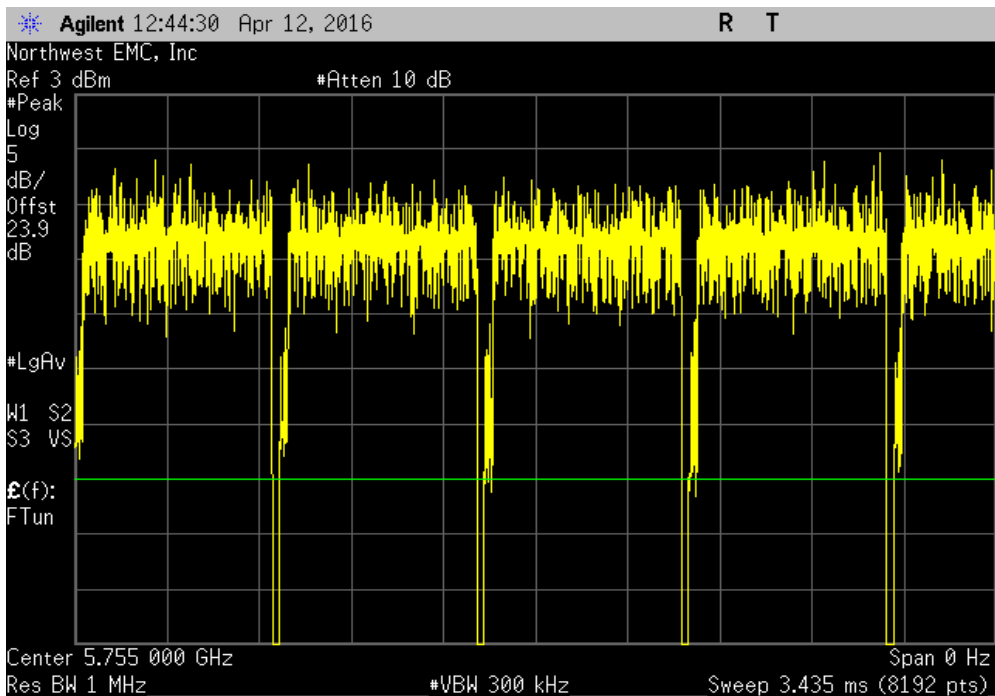


# DUTY CYCLE

| 2x2 MIMO, Chain B, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(n) MCS8 |          |                  |           |           |         |  |
|---------------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                     | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 705.1 us                                                                        | 763.3 us | 1                | 92.4      | N/A       | N/A     |  |

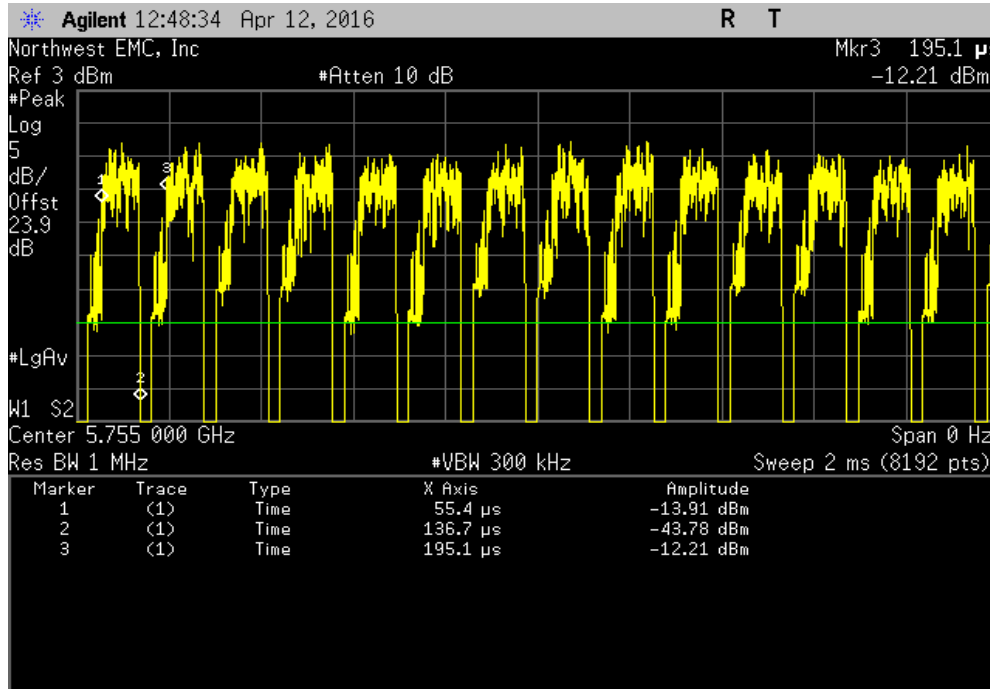


| 2x2 MIMO, Chain B, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(n) MCS8 |        |                  |           |           |         |  |
|---------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                     | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                             | N/A    | 5                | N/A       | N/A       | N/A     |  |

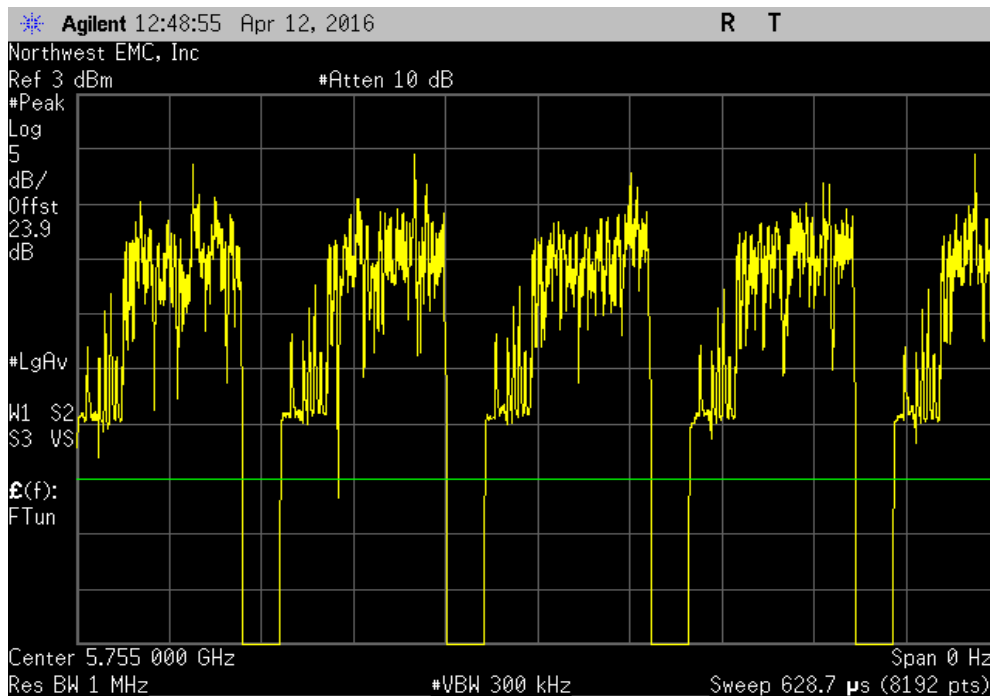


# DUTY CYCLE

| 2x2 MIMO, Chain B, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(n) MCS15 |          |                  |           |           |         |  |
|----------------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                      | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 81.3 us                                                                          | 139.7 us | 1                | 58.2      | N/A       | N/A     |  |

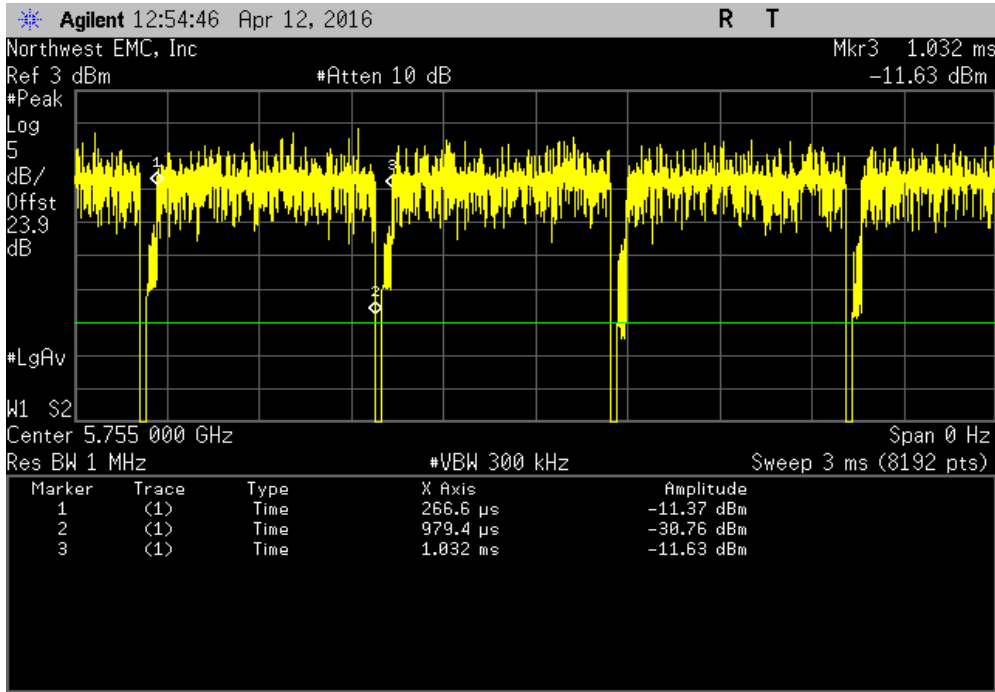


| 2x2 MIMO, Chain B, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(n) MCS15 |        |                  |           |           |         |  |
|----------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                      | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                              | N/A    | 5                | N/A       | N/A       | N/A     |  |

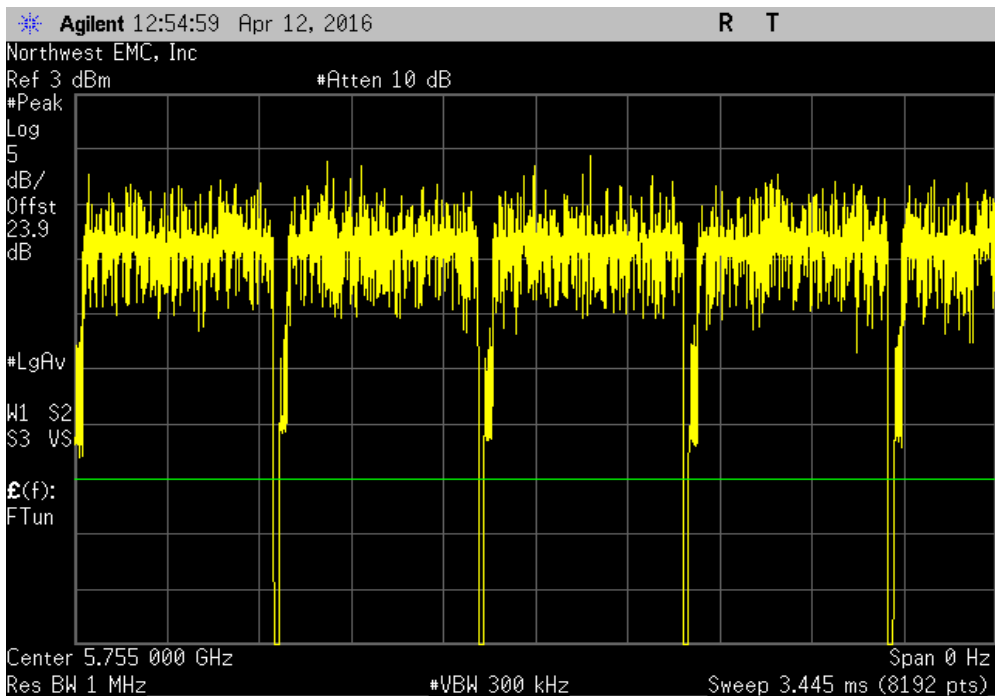


# DUTY CYCLE

| 2x2 MIMO, Chain B, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(ac) MCS0 |          |                  |           |           |         |  |
|----------------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                      | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 712.8 us                                                                         | 765.5 us | 1                | 93.1      | N/A       | N/A     |  |



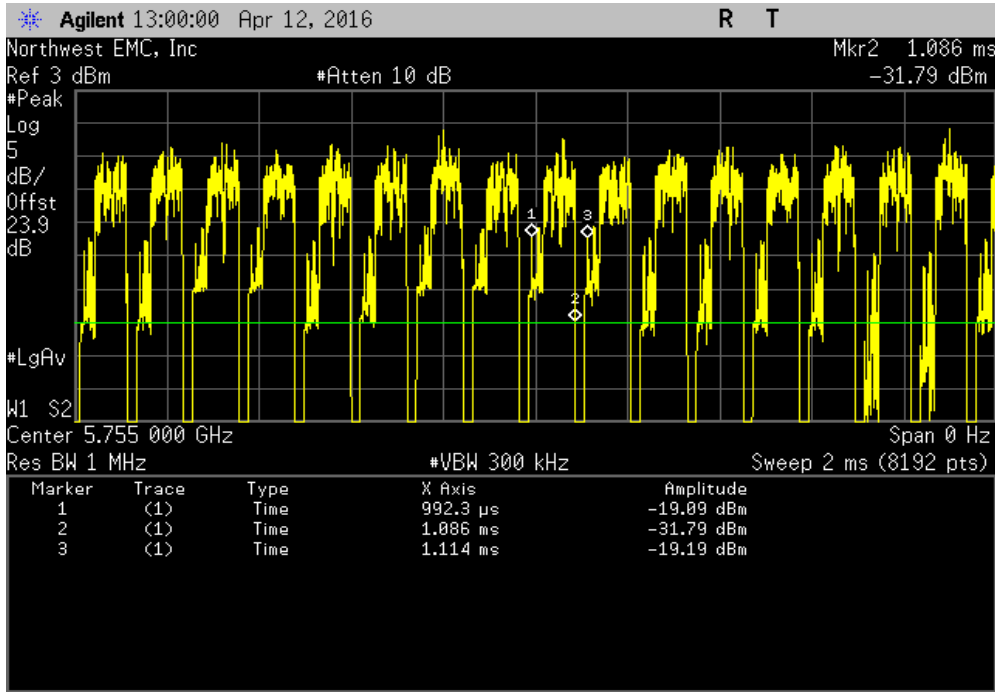
| 2x2 MIMO, Chain B, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(ac) MCS0 |        |                  |           |           |         |  |
|----------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                      | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                              | N/A    | 5                | N/A       | N/A       | N/A     |  |



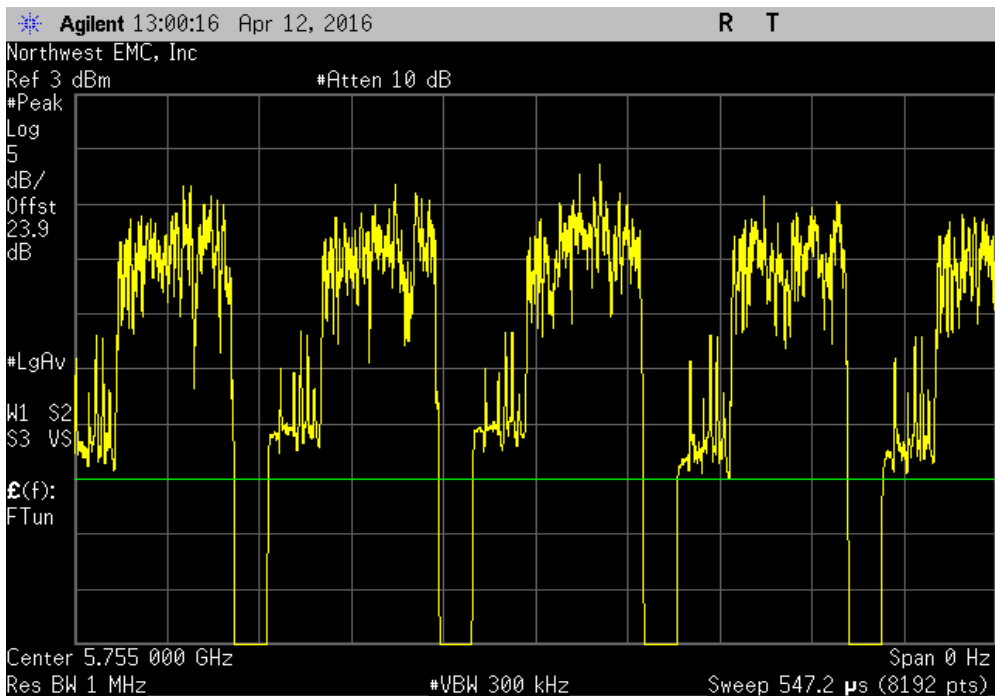


# DUTY CYCLE

| 2x2 MIMO, Chain B, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(ac) MCS9 |          |                  |           |           |         |  |
|----------------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                      | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 94.005 us                                                                        | 121.6 us | 1                | 77.3      | N/A       | N/A     |  |

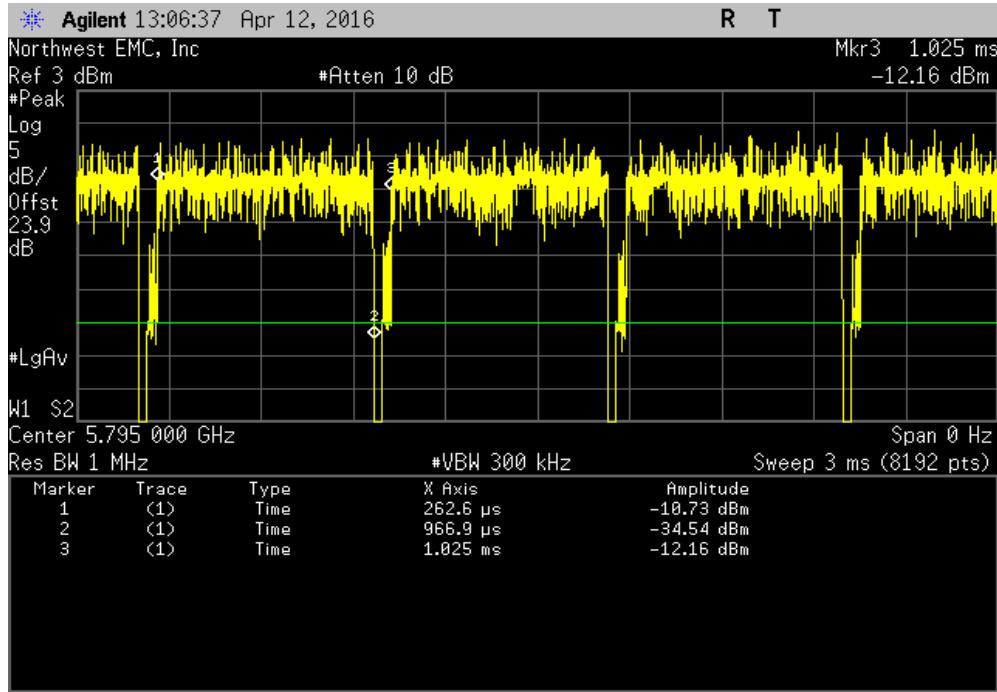


| 2x2 MIMO, Chain B, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(ac) MCS9 |        |                  |           |           |         |  |
|----------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                      | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                              | N/A    | 5                | N/A       | N/A       | N/A     |  |

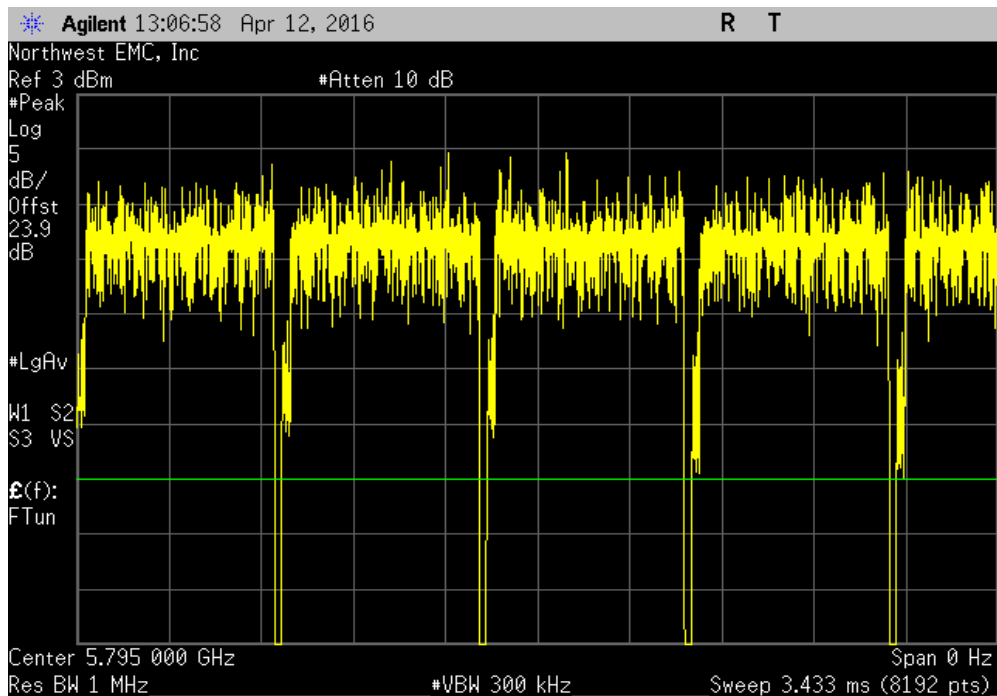


# DUTY CYCLE

| 2x2 MIMO, Chain B, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(n) MCS8 |          |                  |           |           |         |  |
|----------------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                      | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 704.3 us                                                                         | 762.9 us | 1                | 92.3      | N/A       | N/A     |  |

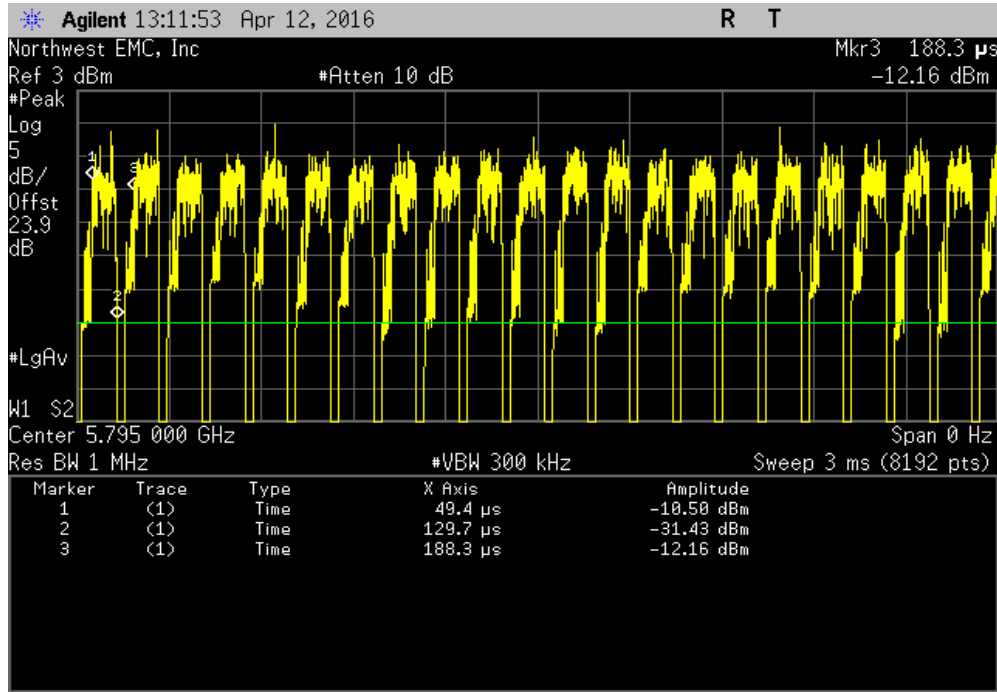


| 2x2 MIMO, Chain B, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(n) MCS8 |        |                  |           |           |         |  |
|----------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                      | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                              | N/A    | 5                | N/A       | N/A       | N/A     |  |

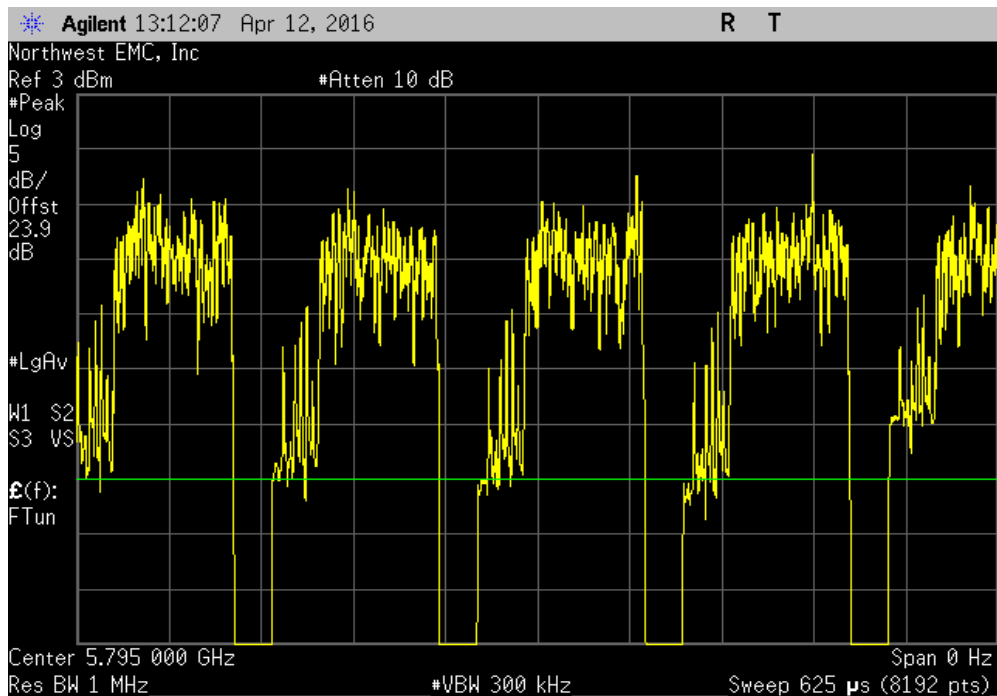


# DUTY CYCLE

| 2x2 MIMO, Chain B, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(n) MCS15 |          |                  |           |           |         |  |
|-----------------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                       | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 80.3 us                                                                           | 138.9 us | 1                | 57.8      | N/A       | N/A     |  |

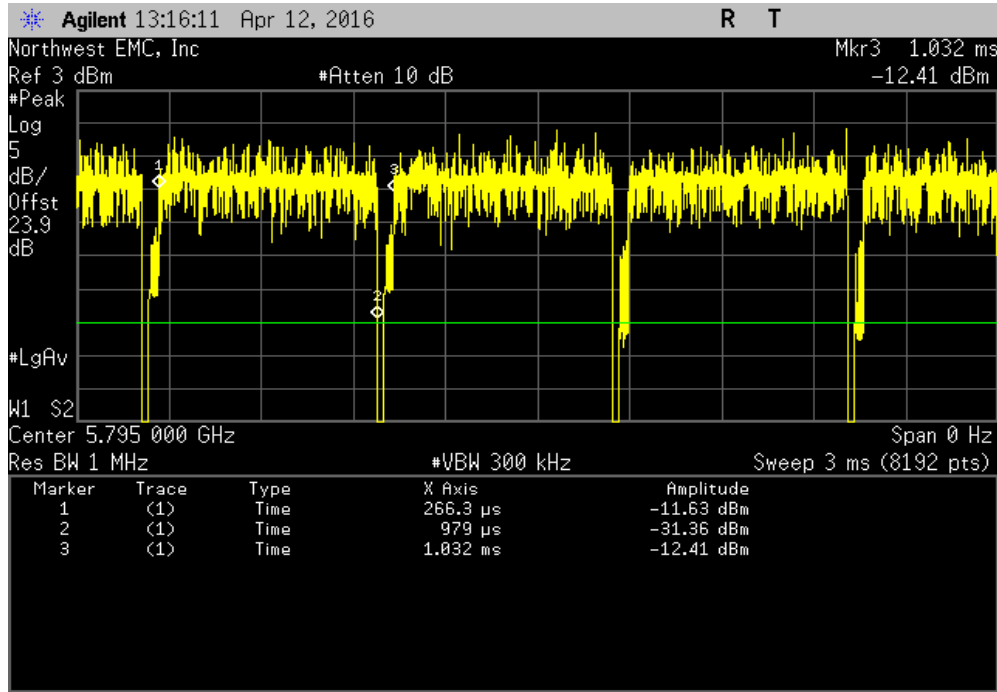


| 2x2 MIMO, Chain B, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(n) MCS15 |        |                  |           |           |         |  |
|-----------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                       | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                               | N/A    | 6                | N/A       | N/A       | N/A     |  |

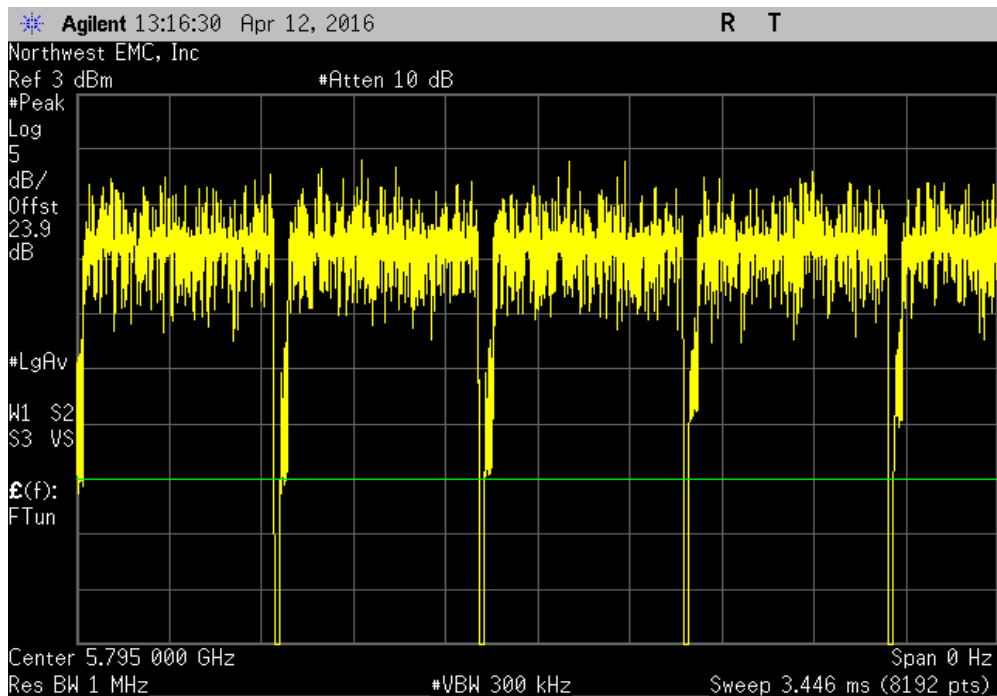


# DUTY CYCLE

| 2x2 MIMO, Chain B, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(ac) MCS0 |          |                  |           |           |         |  |
|-----------------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                       | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 712.7 us                                                                          | 765.8 us | 1                | 93.1      | N/A       | N/A     |  |

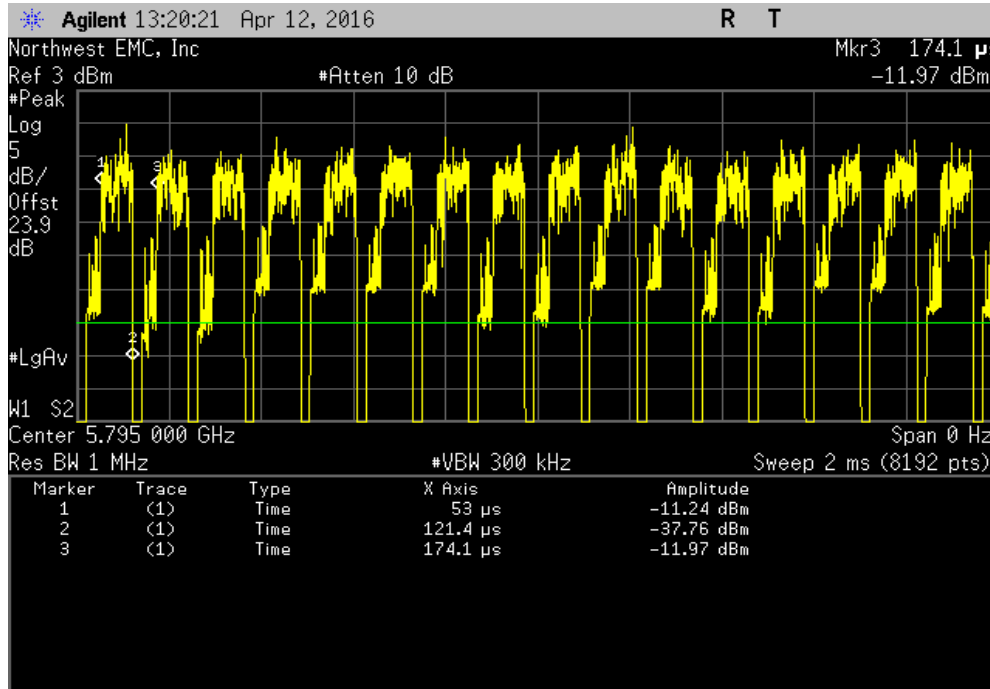


| 2x2 MIMO, Chain B, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(ac) MCS0 |        |                  |           |           |         |  |
|-----------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                       | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                               | N/A    | 6                | N/A       | N/A       | N/A     |  |



# DUTY CYCLE

| 2x2 MIMO, Chain B, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(ac) MCS9 |          |                  |           |           |         |  |
|-----------------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                       | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 68.4 us                                                                           | 121.1 us | 1                | 56.5      | N/A       | N/A     |  |

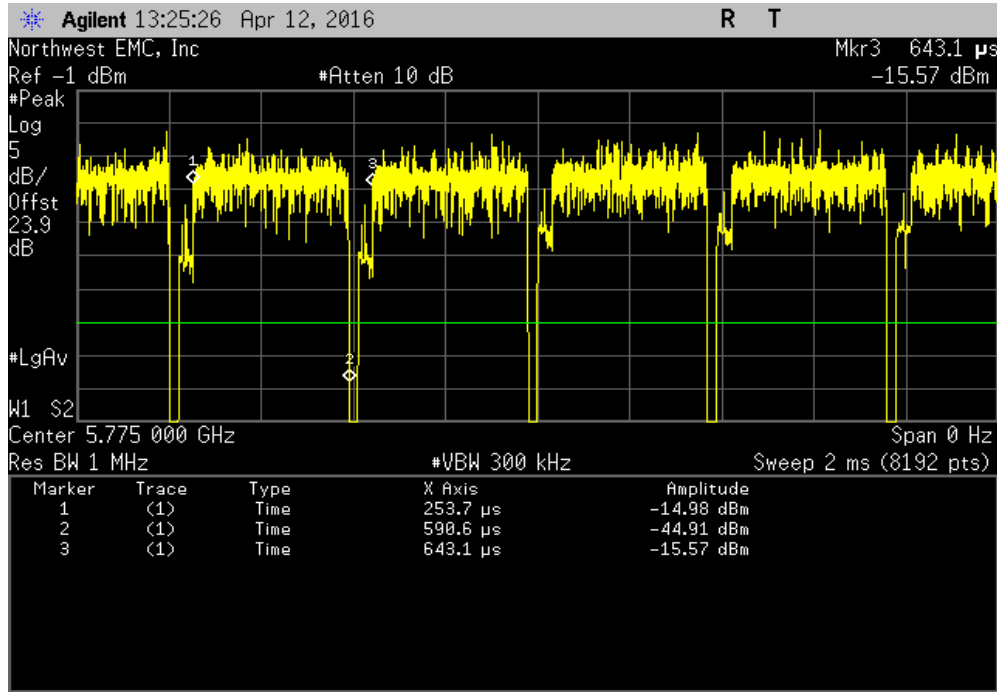


| 2x2 MIMO, Chain B, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(ac) MCS9 |        |                  |           |           |         |  |
|-----------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                       | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                               | N/A    | 5                | N/A       | N/A       | N/A     |  |

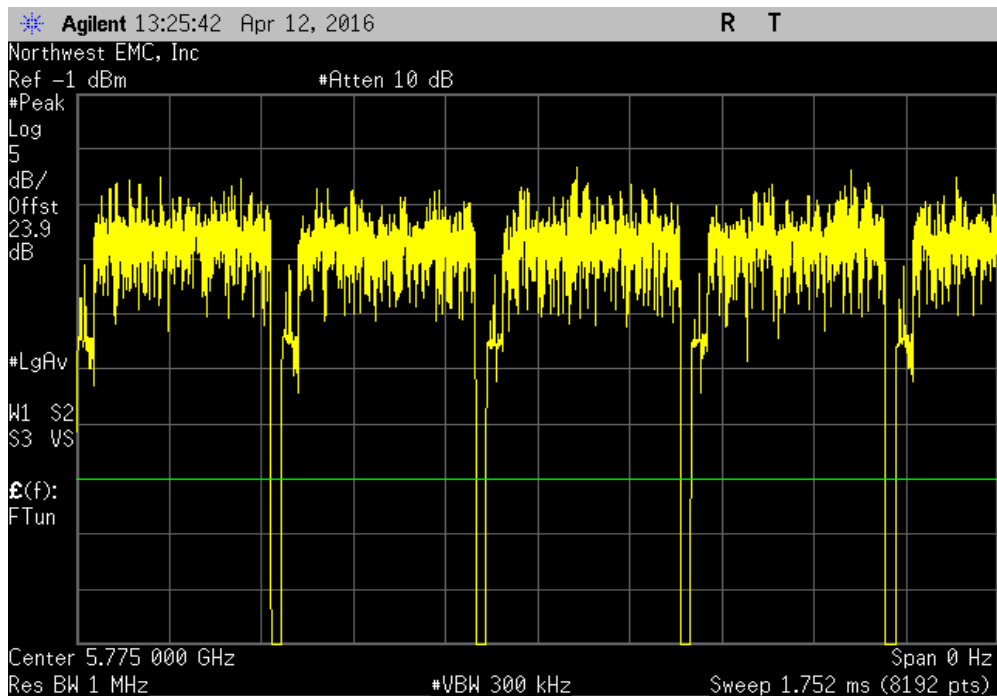


# DUTY CYCLE

| 2x2 MIMO, Chain B, 80MHz BW, Mid Channel, Ch 149/161 - 5775 MHz, 802.11(ac) MCS0 |          |                  |           |           |         |  |
|----------------------------------------------------------------------------------|----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                      | Period   | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 336.9 us                                                                         | 389.4 us | 1                | 86.5      | N/A       | N/A     |  |

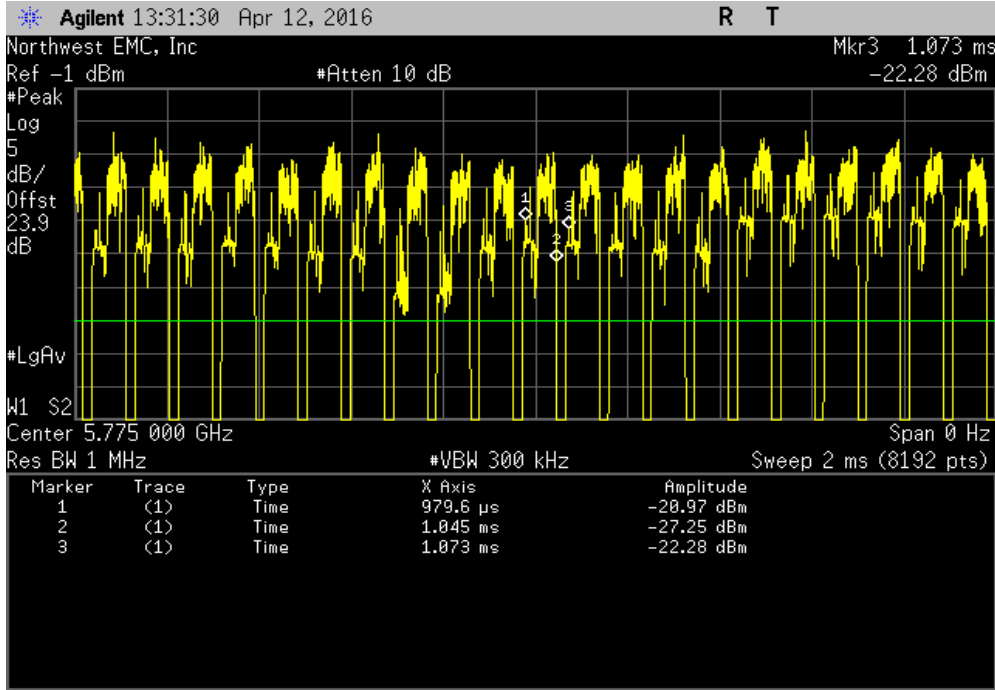


| 2x2 MIMO, Chain B, 80MHz BW, Mid Channel, Ch 149/161 - 5775 MHz, 802.11(ac) MCS0 |        |                  |           |           |         |  |
|----------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                      | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                              | N/A    | 5                | N/A       | N/A       | N/A     |  |

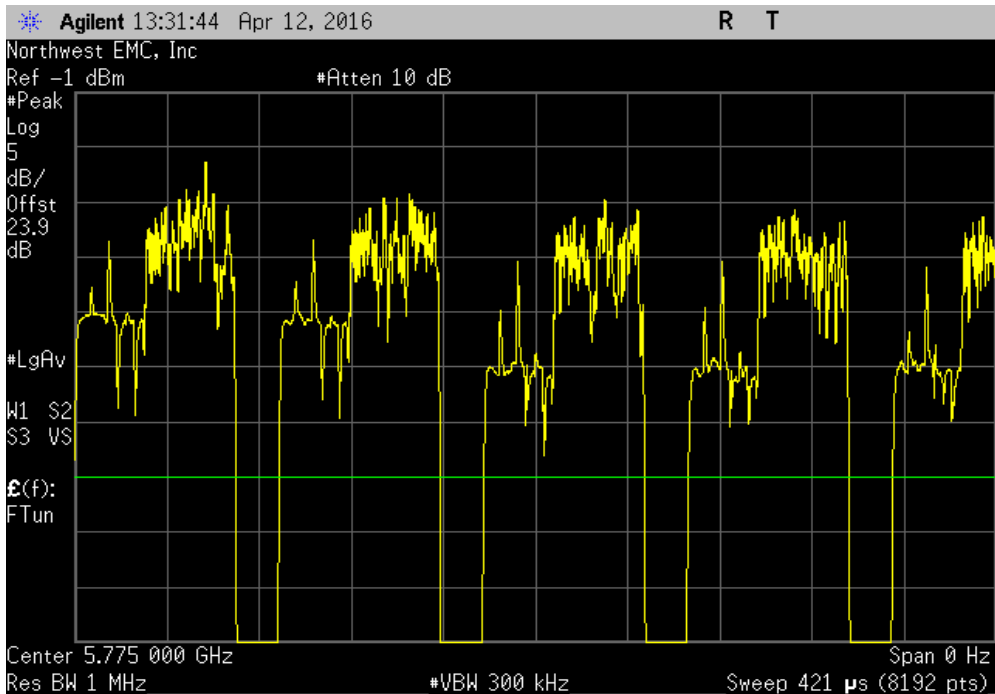


# DUTY CYCLE

| 2x2 MIMO, Chain B, 80MHz BW, Mid Channel, Ch 149/161 - 5775 MHz, 802.11(ac) MCS9 |           |                  |           |           |         |  |
|----------------------------------------------------------------------------------|-----------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                      | Period    | Number of Pulses | Value (%) | Limit (%) | Results |  |
| 65.725 us                                                                        | 93.564 us | 1                | 70.2      | N/A       | N/A     |  |



| 2x2 MIMO, Chain B, 80MHz BW, Mid Channel, Ch 149/161 - 5775 MHz, 802.11(ac) MCS9 |        |                  |           |           |         |  |
|----------------------------------------------------------------------------------|--------|------------------|-----------|-----------|---------|--|
| Pulse Width                                                                      | Period | Number of Pulses | Value (%) | Limit (%) | Results |  |
| N/A                                                                              | N/A    | 5                | N/A       | N/A       | N/A     |  |



# MAXIMUM CONDUCTED OUTPUT POWER



XMit 2015.01.14

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

## TEST EQUIPMENT

| Description                  | Manufacturer       | Model            | ID  | Last Cal.  | Interval (mo) |
|------------------------------|--------------------|------------------|-----|------------|---------------|
| Analyzer - Spectrum Analyzer | Agilent            | E4440A           | AFE | 6/22/2015  | 12            |
| Attenuator                   | Fairview Microwave | SA4014-20        | TKV | 3/4/2016   | 12            |
| Cable                        | ESM Cable Corp.    | TTBJ-141 KMKM-72 | NC5 | 6/6/2015   | 12            |
| Block - DC                   | Fairview Microwave | SD3379           | AMJ | 6/6/2015   | 12            |
| Generator - Signal           | Agilent            | N5183A           | TID | 11/26/2014 | 36            |

## TEST DESCRIPTION

The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum. The radio was operated in the modes as shown in the following data sheets.

A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer.

Prior to measuring maximum transmit power; the emission bandwidth (B) and the transmission pulse duration (T) were measured. The method of measuring the emission bandwidth and the associated data are found elsewhere in this test report. The transmission pulse duration (T) was measured using a zero span on the spectrum analyzer to see the pulses in the time domain.

The maximum conducted output power was measured using ANSI C63.10, Method SA-2 (RMS detection and trace averaging across the on and off times of the EUT transmission and use of a duty cycle correction factor).

The spectrum analyzer settings were set per the guidance as well as the following specifics:

- RMS Detector
- Trace average 100 traces in power averaging mode.
- Power was integrated across "B", by using the channel power function of the analyzer.

A duty cycle correction factor was added to the measurement using the results of the formula of  $10 \cdot \text{LOG}(1/D)$  where D is the duty cycle.

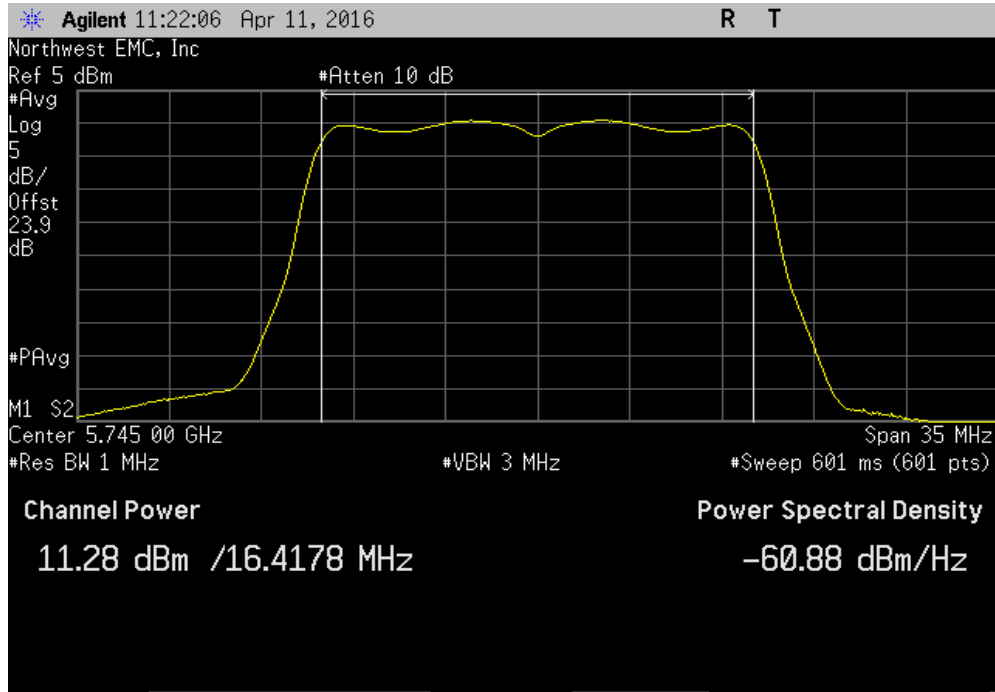


# MAXIMUM CONDUCTED OUTPUT POWER

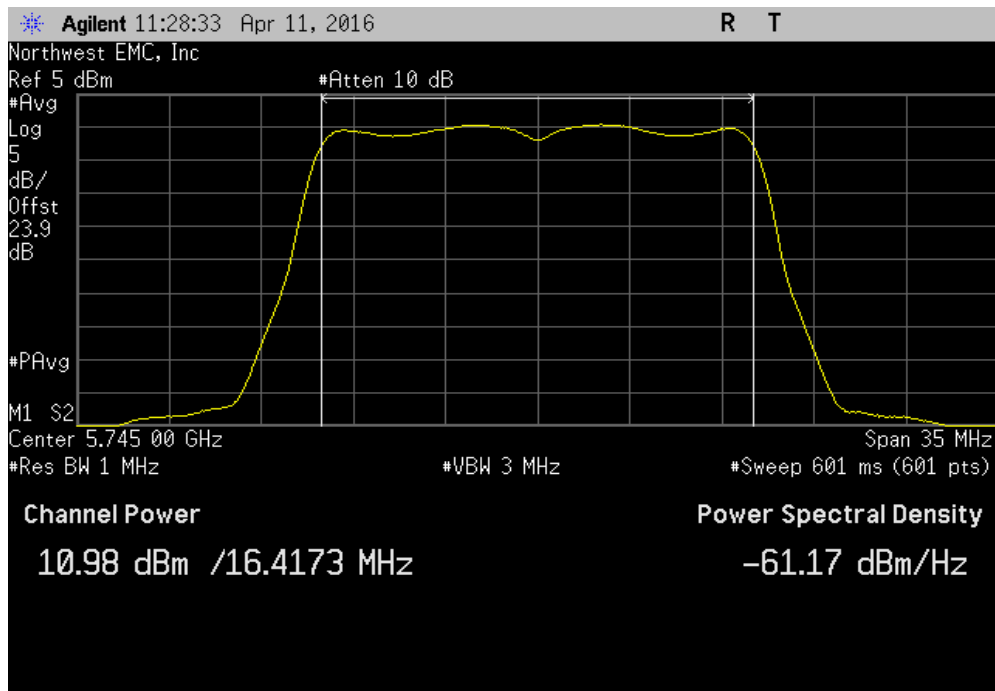
|                                                                                                                                                                                                                     |                   |                             |                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------|------------------------|
| EUT: Model 1631                                                                                                                                                                                                     |                   | Work Order: MCSO1748        |                        |
| Serial Number: 041152140753                                                                                                                                                                                         |                   | Date: 04/12/16              |                        |
| Customer: Microsoft Corporation                                                                                                                                                                                     |                   | Temperature: 23°C           |                        |
| Attendees: None                                                                                                                                                                                                     |                   | Humidity: 33%               |                        |
| Project: None                                                                                                                                                                                                       |                   | Barometric Pres.: 1019 mbar |                        |
| Tested by: Richard Mellroth                                                                                                                                                                                         |                   | Power: 110VAC/60Hz          |                        |
|                                                                                                                                                                                                                     |                   | Job Site: NC02              |                        |
| TEST SPECIFICATIONS                                                                                                                                                                                                 |                   | Test Method                 |                        |
| FCC 15.407:2016                                                                                                                                                                                                     |                   | ANSI C63.10:2013            |                        |
| COMMENTS                                                                                                                                                                                                            |                   |                             |                        |
| Power setting at 11dBm for 20MHz and 40MHz channels. Power Setting at 10dBm for 80MHz channels. Client supplied adapter cable loss of 1.3dB included in reference level offset. Signal setting at > 95% Duty Cycle. |                   |                             |                        |
| DEVIATIONS FROM TEST STANDARD                                                                                                                                                                                       |                   |                             |                        |
| None                                                                                                                                                                                                                |                   |                             |                        |
| Configuration #                                                                                                                                                                                                     | 1                 | Signature <i>Rust</i>       |                        |
|                                                                                                                                                                                                                     |                   | Avg Cond Pwr (dBm)          | Duty Cycle Factor (dB) |
|                                                                                                                                                                                                                     |                   | Value (dBm)                 | Limit (dBm)            |
|                                                                                                                                                                                                                     |                   |                             | Results                |
| SISO, Chain A                                                                                                                                                                                                       |                   |                             |                        |
| 20MHz BW                                                                                                                                                                                                            |                   |                             |                        |
| Low Channel, Ch 149 - 5745 MHz                                                                                                                                                                                      |                   |                             |                        |
|                                                                                                                                                                                                                     | 802.11(a) 6 Mbps  | 11.276                      | 0                      |
|                                                                                                                                                                                                                     | 802.11(a) 36 Mbps | 10.984                      | 0.3                    |
|                                                                                                                                                                                                                     | 802.11(a) 54 Mbps | 10.856                      | 0.4                    |
|                                                                                                                                                                                                                     | 802.11(n) MCS0    | 11.437                      | 0                      |
|                                                                                                                                                                                                                     | 802.11(n) MCS7    | 10.778                      | 0.4                    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0   | 11.33                       | 0                      |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8   | 11.002                      | 0.4                    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8   | 11.002                      | 0.4                    |
| Mid Channel, Ch 157 - 5785 MHz                                                                                                                                                                                      |                   |                             |                        |
|                                                                                                                                                                                                                     | 802.11(a) 6 Mbps  | 11.34                       | 0                      |
|                                                                                                                                                                                                                     | 802.11(a) 36 Mbps | 11.105                      | 0.3                    |
|                                                                                                                                                                                                                     | 802.11(a) 54 Mbps | 10.943                      | 0.4                    |
|                                                                                                                                                                                                                     | 802.11(n) MCS0    | 11.411                      | 0                      |
|                                                                                                                                                                                                                     | 802.11(n) MCS7    | 10.957                      | 0.4                    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0   | 11.452                      | 0                      |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8   | 11.161                      | 0.4                    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8   | 11.161                      | 0.4                    |
| High Channel, Ch 165 - 5825 MHz                                                                                                                                                                                     |                   |                             |                        |
|                                                                                                                                                                                                                     | 802.11(a) 6 Mbps  | 11.447                      | 0                      |
|                                                                                                                                                                                                                     | 802.11(a) 36 Mbps | 11.058                      | 0.3                    |
|                                                                                                                                                                                                                     | 802.11(a) 54 Mbps | 11                          | 0.4                    |
|                                                                                                                                                                                                                     | 802.11(n) MCS0    | 11.455                      | 0                      |
|                                                                                                                                                                                                                     | 802.11(n) MCS7    | 11.145                      | 0.4                    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0   | 11.504                      | 0                      |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8   | 11.174                      | 0.4                    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8   | 11.174                      | 0.4                    |
| 40MHz BW                                                                                                                                                                                                            |                   |                             |                        |
| Low Channel, Ch 149/153 - 5755 MHz                                                                                                                                                                                  |                   |                             |                        |
|                                                                                                                                                                                                                     | 802.11(n) MCS0    | 11.152                      | 0.2                    |
|                                                                                                                                                                                                                     | 802.11(n) MCS7    | 10.709                      | 1.5                    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0   | 11.279                      | 0.2                    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9   | 10.77                       | 1.6                    |
| High Channel, Ch 157/161 - 5795 MHz                                                                                                                                                                                 |                   |                             |                        |
|                                                                                                                                                                                                                     | 802.11(n) MCS0    | 11.281                      | 0.2                    |
|                                                                                                                                                                                                                     | 802.11(n) MCS7    | 10.629                      | 1.5                    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0   | 11.254                      | 0.2                    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9   | 10.734                      | 1.6                    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9   | 10.734                      | 1.6                    |
| 80MHz BW                                                                                                                                                                                                            |                   |                             |                        |
| Mid Channel, Ch 149/161 - 5775 MHz                                                                                                                                                                                  |                   |                             |                        |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0   | 9.841                       | 0.3                    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9   | 8.83                        | 1.8                    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9   | 8.83                        | 1.8                    |
| SISO, Chain B                                                                                                                                                                                                       |                   |                             |                        |
| 20MHz BW                                                                                                                                                                                                            |                   |                             |                        |
| Low Channel, Ch 149 - 5745 MHz                                                                                                                                                                                      |                   |                             |                        |
|                                                                                                                                                                                                                     | 802.11(a) 6 Mbps  | 10.968                      | 0                      |
|                                                                                                                                                                                                                     | 802.11(a) 36 Mbps | 11.107                      | 0.3                    |
|                                                                                                                                                                                                                     | 802.11(a) 54 Mbps | 10.707                      | 0.4                    |
|                                                                                                                                                                                                                     | 802.11(n) MCS0    | 11.069                      | 0                      |
|                                                                                                                                                                                                                     | 802.11(n) MCS7    | 10.787                      | 0.4                    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0   | 11.173                      | 0                      |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8   | 10.823                      | 0.4                    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8   | 10.823                      | 0.4                    |
| Mid Channel, Ch 157 - 5785 MHz                                                                                                                                                                                      |                   |                             |                        |
|                                                                                                                                                                                                                     | 802.11(a) 6 Mbps  | 11.355                      | 0                      |
|                                                                                                                                                                                                                     | 802.11(a) 36 Mbps | 10.914                      | 0.3                    |
|                                                                                                                                                                                                                     | 802.11(a) 54 Mbps | 10.876                      | 0.4                    |
|                                                                                                                                                                                                                     | 802.11(n) MCS0    | 11.367                      | 0                      |
|                                                                                                                                                                                                                     | 802.11(n) MCS7    | 10.967                      | 0.4                    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0   | 11.341                      | 0                      |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8   | 10.942                      | 0.4                    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8   | 10.942                      | 0.4                    |
| High Channel, Ch 165 - 5825 MHz                                                                                                                                                                                     |                   |                             |                        |
|                                                                                                                                                                                                                     | 802.11(a) 6 Mbps  | 11.263                      | 0                      |
|                                                                                                                                                                                                                     | 802.11(a) 36 Mbps | 10.984                      | 0.3                    |
|                                                                                                                                                                                                                     | 802.11(a) 54 Mbps | 10.802                      | 0.4                    |
|                                                                                                                                                                                                                     | 802.11(n) MCS0    | 11.271                      | 0                      |
|                                                                                                                                                                                                                     | 802.11(n) MCS7    | 10.908                      | 0.4                    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0   | 11.371                      | 0                      |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8   | 11.028                      | 0.4                    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8   | 11.028                      | 0.4                    |
| 40MHz BW                                                                                                                                                                                                            |                   |                             |                        |
| Low Channel, Ch 149/153 - 5755 MHz                                                                                                                                                                                  |                   |                             |                        |
|                                                                                                                                                                                                                     | 802.11(n) MCS0    | 11.307                      | 0.2                    |
|                                                                                                                                                                                                                     | 802.11(n) MCS7    | 10.429                      | 1.5                    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0   | 11.271                      | 0.2                    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9   | 10.838                      | 1.6                    |
| High Channel, Ch 157/161 - 5795 MHz                                                                                                                                                                                 |                   |                             |                        |
|                                                                                                                                                                                                                     | 802.11(n) MCS0    | 11.372                      | 0.2                    |
|                                                                                                                                                                                                                     | 802.11(n) MCS7    | 10.535                      | 1.5                    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0   | 11.426                      | 0.2                    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9   | 10.599                      | 1.7                    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9   | 10.599                      | 1.7                    |
| 80MHz BW                                                                                                                                                                                                            |                   |                             |                        |
| Mid Channel, Ch 149/161 - 5775 MHz                                                                                                                                                                                  |                   |                             |                        |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0   | 10.405                      | 0.2                    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9   | 9.377                       | 1.9                    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9   | 9.377                       | 1.9                    |

# MAXIMUM CONDUCTED OUTPUT POWER

| SISO, Chain A, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(a) 6 Mbps |                        |             |             |         |  |
|---------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|
| Avg Cond Pwr (dBm)                                                        | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |
| 11.276                                                                    | 0                      | 11.3        | 30          | Pass    |  |

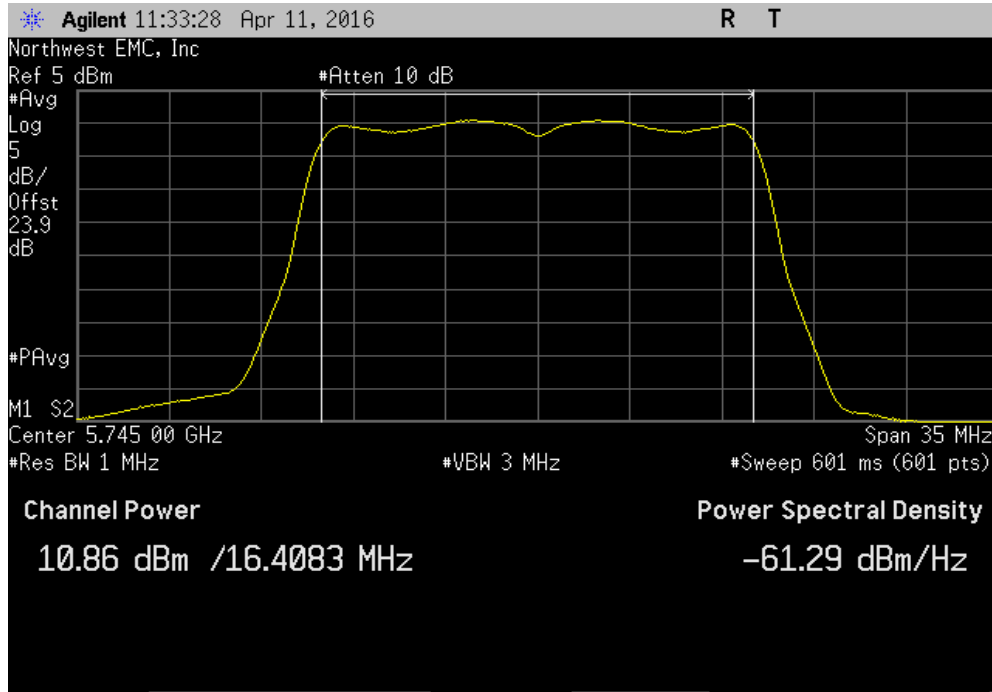


| SISO, Chain A, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(a) 36 Mbps |                        |             |             |         |  |
|----------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|
| Avg Cond Pwr (dBm)                                                         | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |
| 10.984                                                                     | 0.3                    | 11.2        | 30          | Pass    |  |

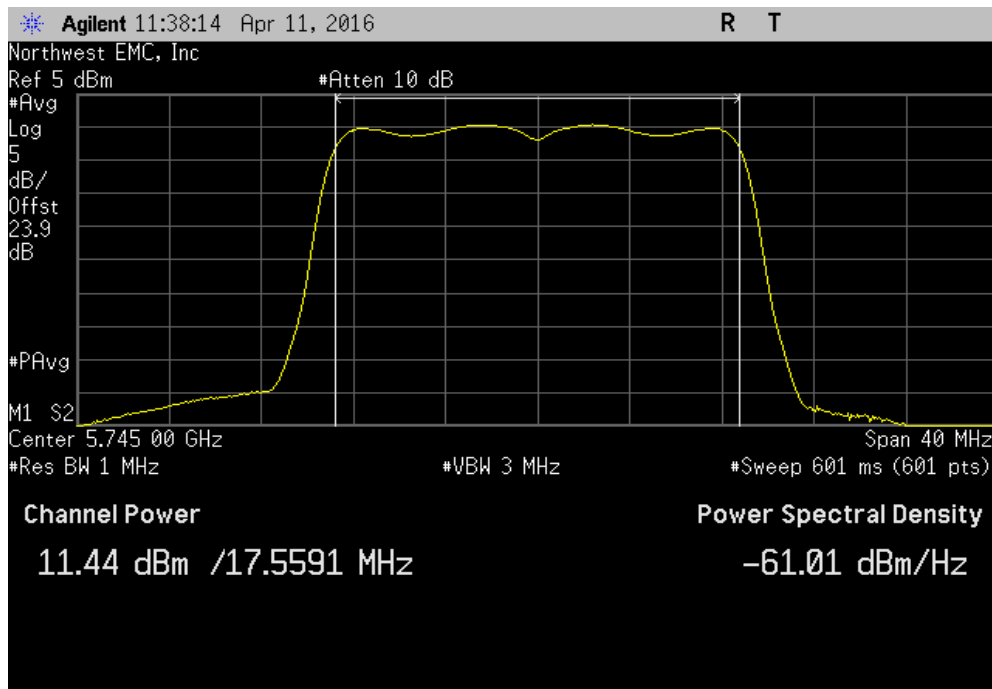


# MAXIMUM CONDUCTED OUTPUT POWER

| SISO, Chain A, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(a) 54 Mbps |                        |             |             |         |  |
|----------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|
| Avg Cond Pwr (dBm)                                                         | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |
| 10.856                                                                     | 0.4                    | 11.3        | 30          | Pass    |  |

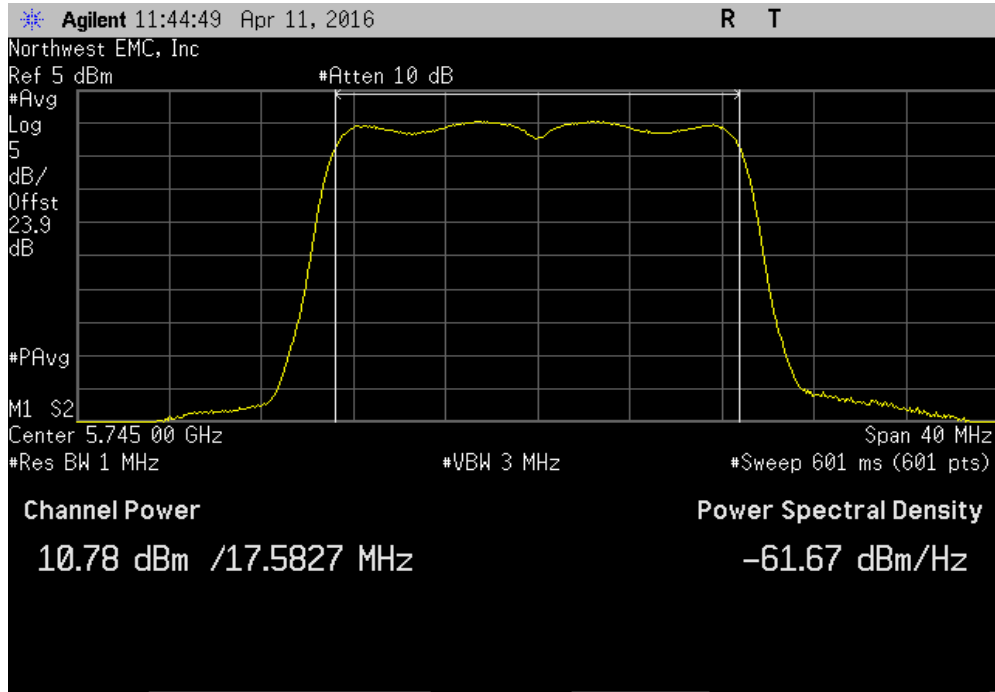


| SISO, Chain A, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(n) MCS0 |                        |             |             |         |  |
|-------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|
| Avg Cond Pwr (dBm)                                                      | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |
| 11.437                                                                  | 0                      | 11.5        | 30          | Pass    |  |

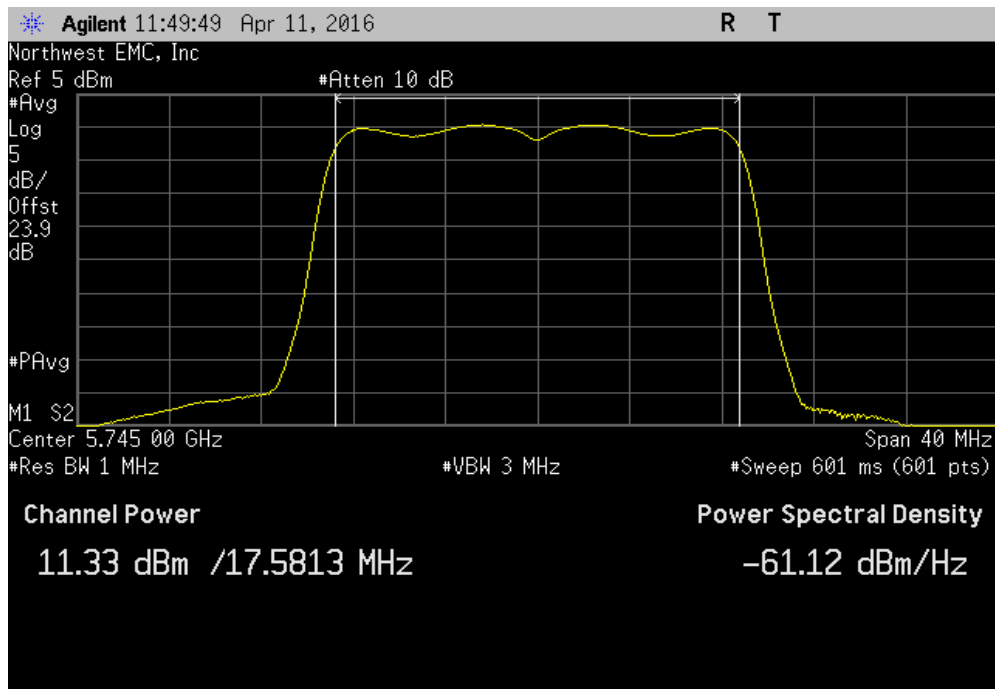


# MAXIMUM CONDUCTED OUTPUT POWER

| SISO, Chain A, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(n) MCS7 |                        |             |             |         |  |  |
|-------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                      | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 10.778                                                                  | 0.4                    | 11.2        | 30          | Pass    |  |  |

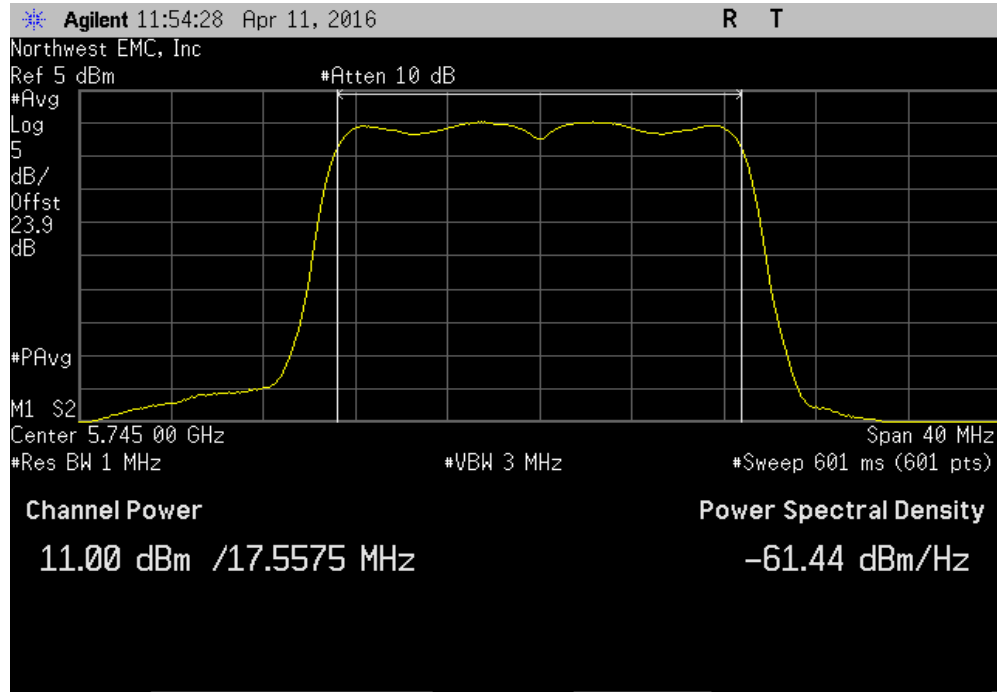


| SISO, Chain A, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(ac) MCS0 |                        |             |             |         |  |  |
|--------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                       | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 11.33                                                                    | 0                      | 11.4        | 30          | Pass    |  |  |

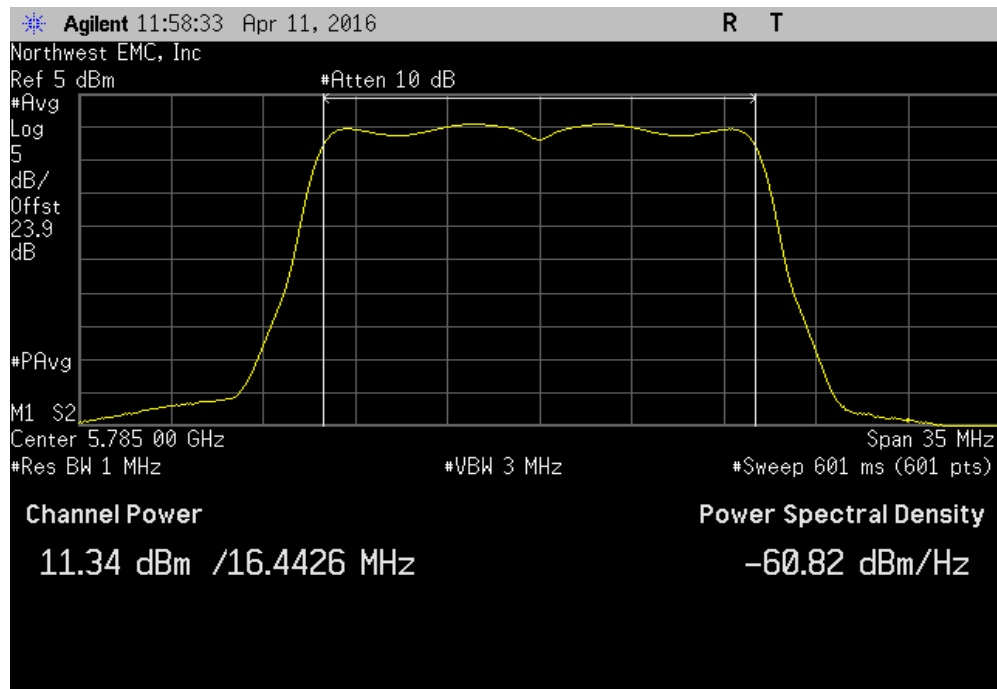


# MAXIMUM CONDUCTED OUTPUT POWER

| SISO, Chain A, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(ac) MCS8 |                        |             |             |         |  |  |
|--------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                       | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 11.002                                                                   | 0.4                    | 11.4        | 30          | Pass    |  |  |

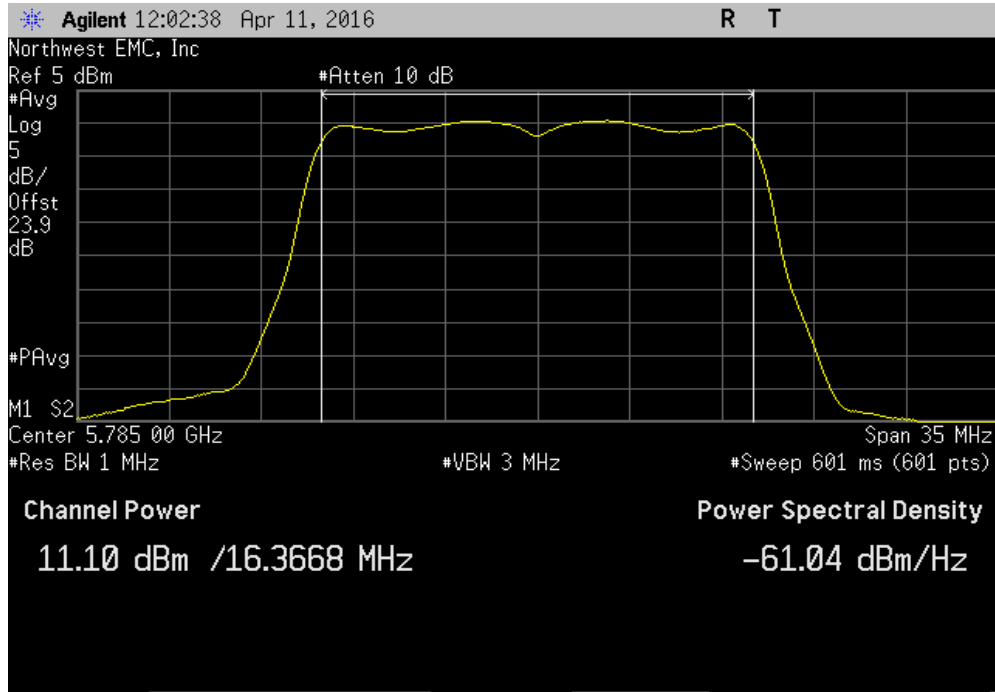


| SISO, Chain A, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(a) 6 Mbps |                        |             |             |         |  |  |
|---------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                        | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 11.34                                                                     | 0                      | 11.4        | 30          | Pass    |  |  |

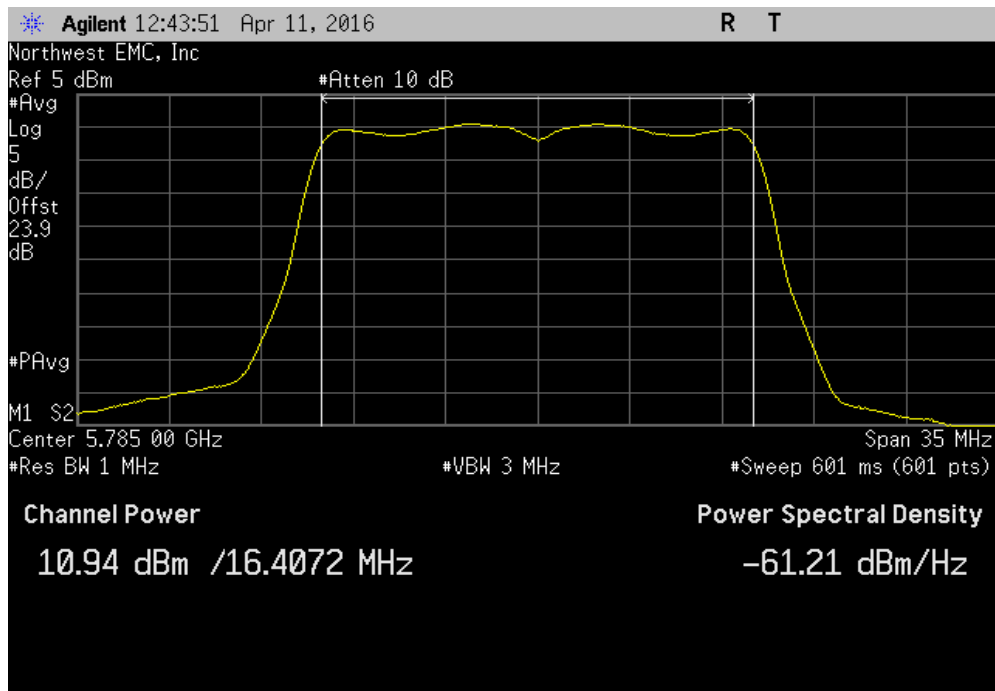


# MAXIMUM CONDUCTED OUTPUT POWER

| SISO, Chain A, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(a) 36 Mbps |                        |             |             |         |  |  |
|----------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                         | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 11.105                                                                     | 0.3                    | 11.4        | 30          | Pass    |  |  |

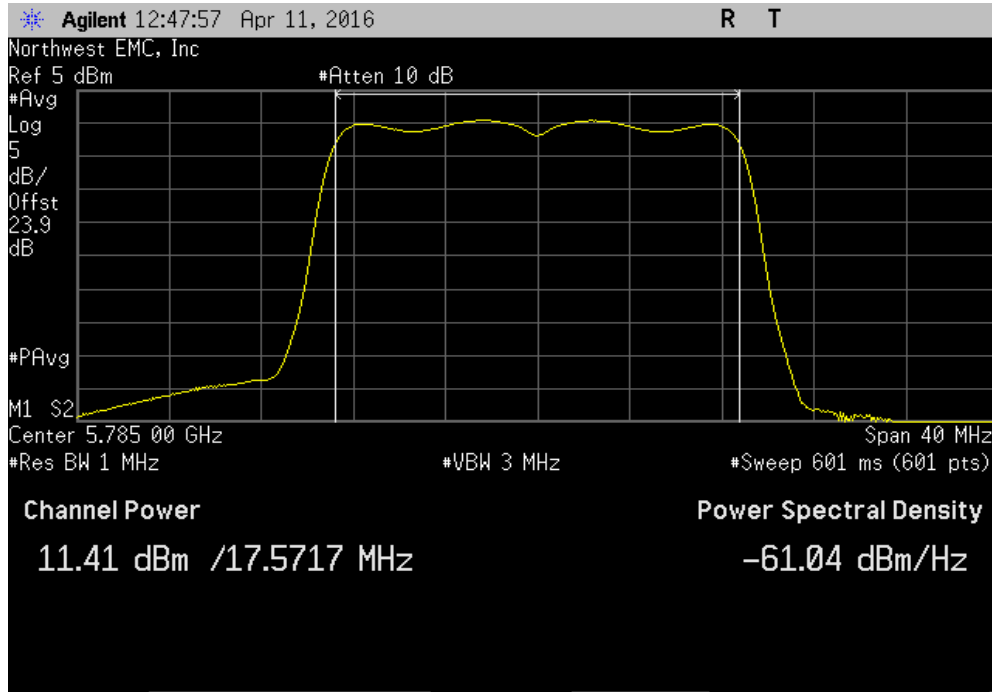


| SISO, Chain A, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(a) 54 Mbps |                        |             |             |         |  |  |
|----------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                         | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 10.943                                                                     | 0.4                    | 11.3        | 30          | Pass    |  |  |

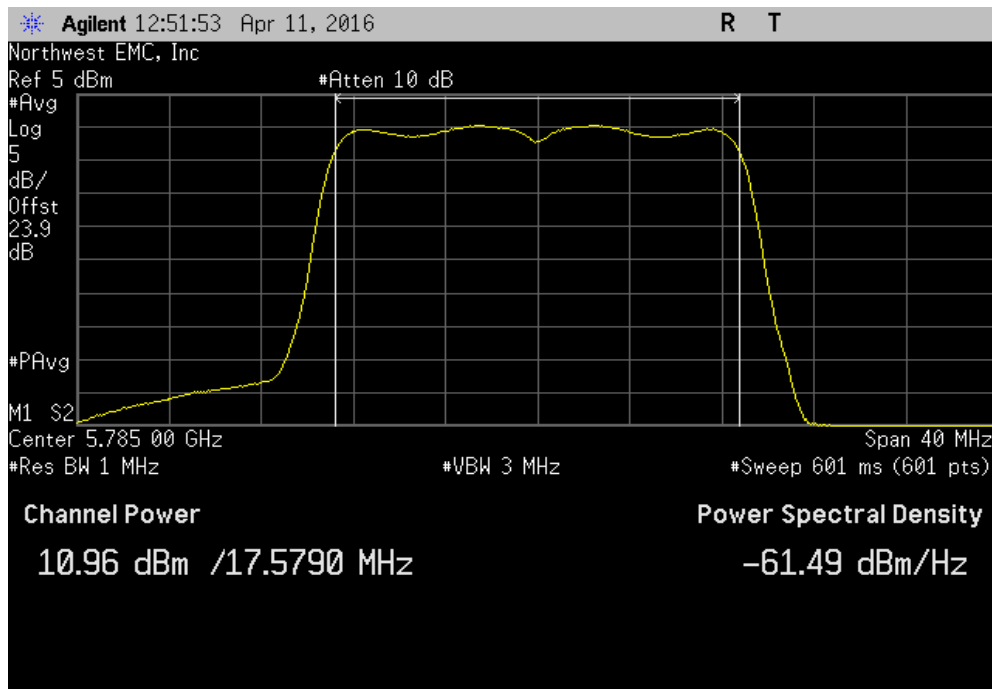


# MAXIMUM CONDUCTED OUTPUT POWER

| SISO, Chain A, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(n) MCS0 |                        |             |             |         |  |  |
|-------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                      | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 11.411                                                                  | 0                      | 11.5        | 30          | Pass    |  |  |

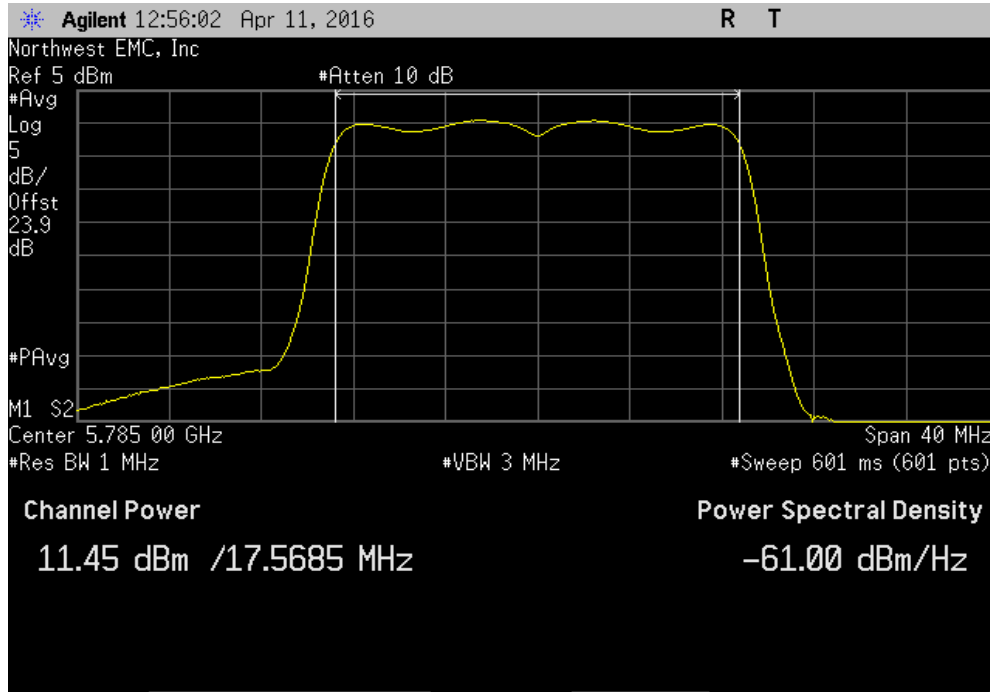


| SISO, Chain A, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(n) MCS7 |                        |             |             |         |  |  |
|-------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                      | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 10.957                                                                  | 0.4                    | 11.4        | 30          | Pass    |  |  |

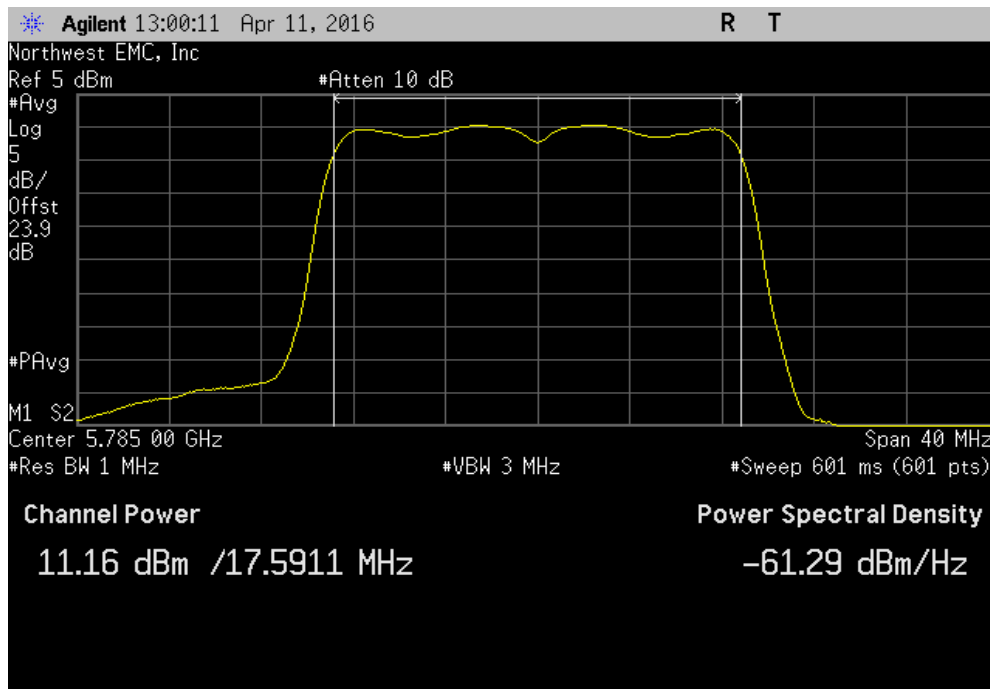


# MAXIMUM CONDUCTED OUTPUT POWER

| SISO, Chain A, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(ac) MCS0 |             |  |       |       |         |  |
|--------------------------------------------------------------------------|-------------|--|-------|-------|---------|--|
| Avg Cond                                                                 | Duty Cycle  |  | Value | Limit | Results |  |
| Pwr (dBm)                                                                | Factor (dB) |  | (dBm) | (dBm) |         |  |
| 11.452                                                                   | 0           |  | 11.5  | 30    | Pass    |  |



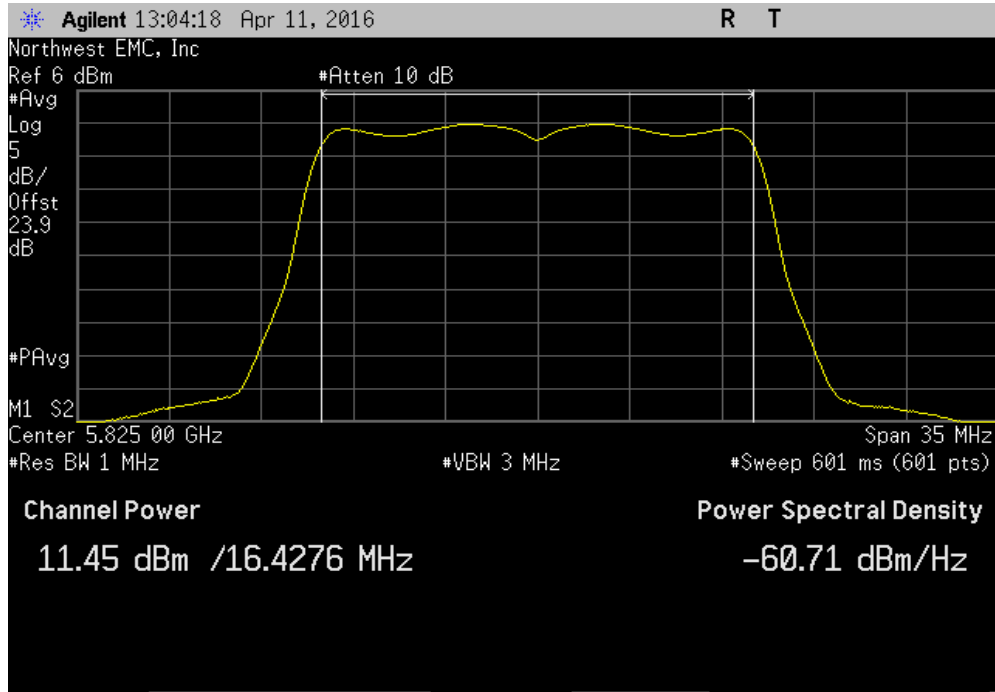
| SISO, Chain A, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(ac) MCS8 |             |  |       |       |         |  |
|--------------------------------------------------------------------------|-------------|--|-------|-------|---------|--|
| Avg Cond                                                                 | Duty Cycle  |  | Value | Limit | Results |  |
| Pwr (dBm)                                                                | Factor (dB) |  | (dBm) | (dBm) |         |  |
| 11.161                                                                   | 0.4         |  | 11.6  | 30    | Pass    |  |



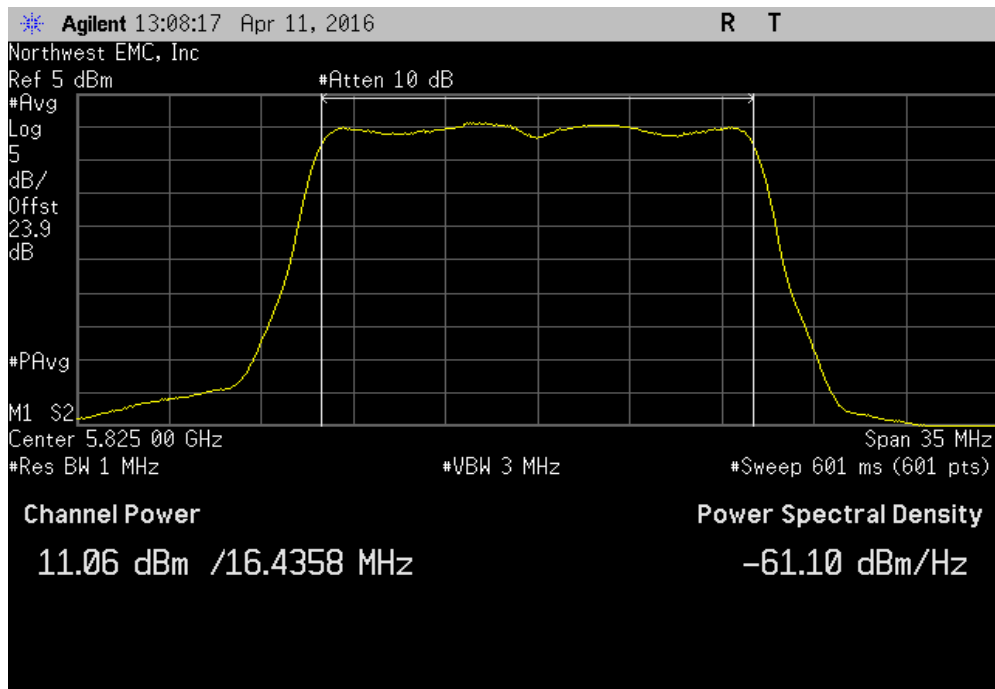


# MAXIMUM CONDUCTED OUTPUT POWER

| SISO, Chain A, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(a) 6 Mbps |                        |             |             |         |  |  |
|----------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                         | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 11.447                                                                     | 0                      | 11.5        | 30          | Pass    |  |  |

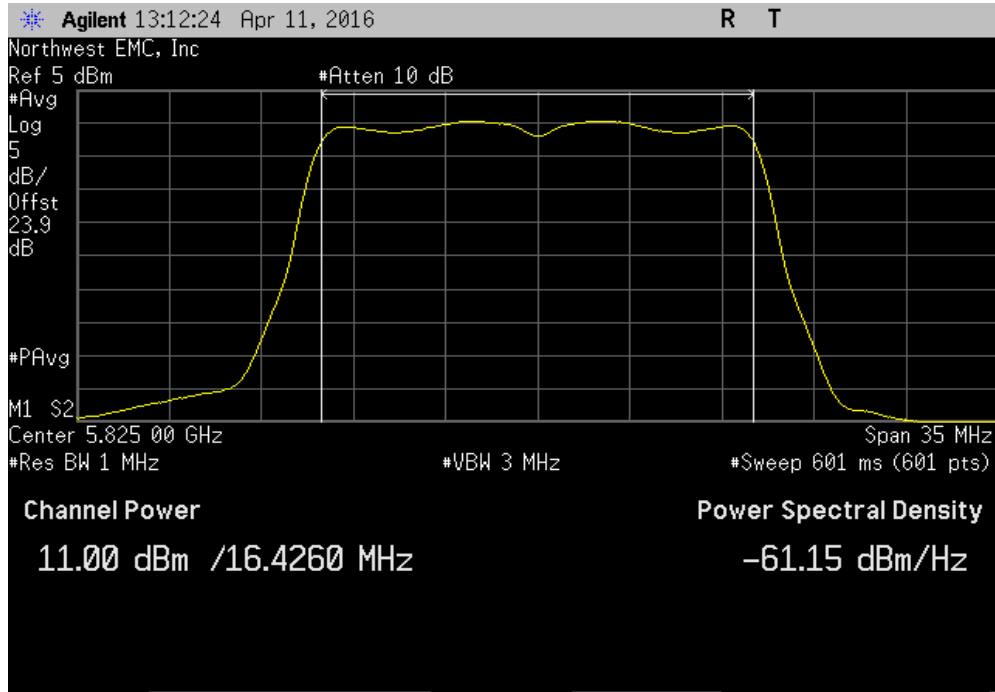


| SISO, Chain A, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(a) 36 Mbps |                        |             |             |         |  |  |
|-----------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                          | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 11.058                                                                      | 0.3                    | 11.3        | 30          | Pass    |  |  |

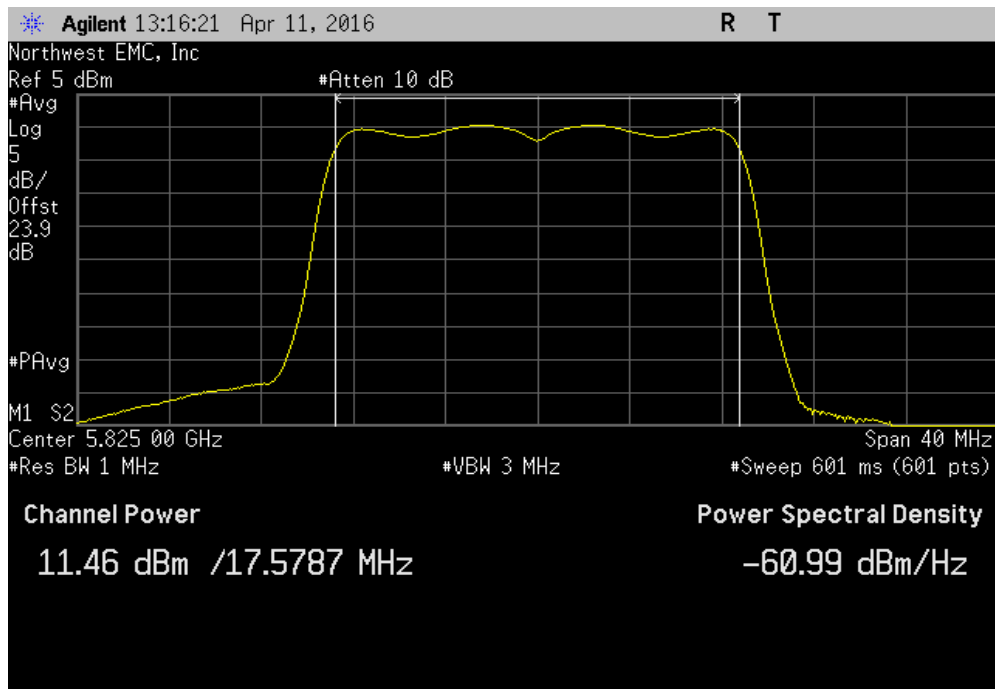


# MAXIMUM CONDUCTED OUTPUT POWER

| SISO, Chain A, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(a) 54 Mbps |             |       |       |         |  |  |
|-----------------------------------------------------------------------------|-------------|-------|-------|---------|--|--|
| Avg Cond                                                                    | Duty Cycle  | Value | Limit | Results |  |  |
| Pwr (dBm)                                                                   | Factor (dB) | (dBm) | (dBm) |         |  |  |
| 11                                                                          | 0.4         | 11.4  | 30    | Pass    |  |  |

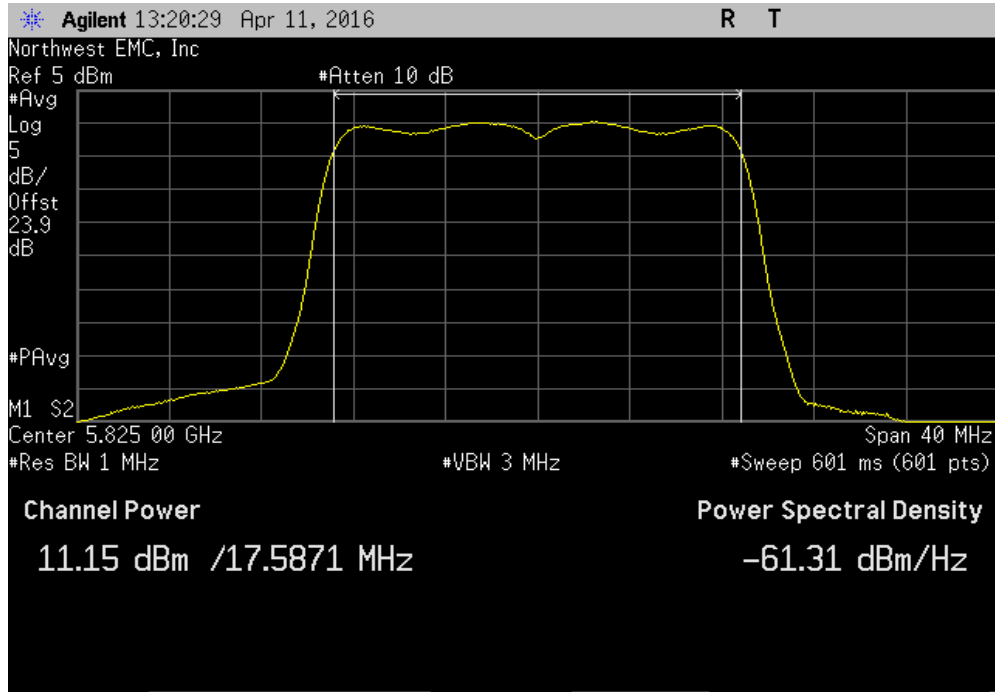


| SISO, Chain A, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(n) MCS0 |             |       |       |         |  |  |
|--------------------------------------------------------------------------|-------------|-------|-------|---------|--|--|
| Avg Cond                                                                 | Duty Cycle  | Value | Limit | Results |  |  |
| Pwr (dBm)                                                                | Factor (dB) | (dBm) | (dBm) |         |  |  |
| 11.455                                                                   | 0           | 11.5  | 30    | Pass    |  |  |

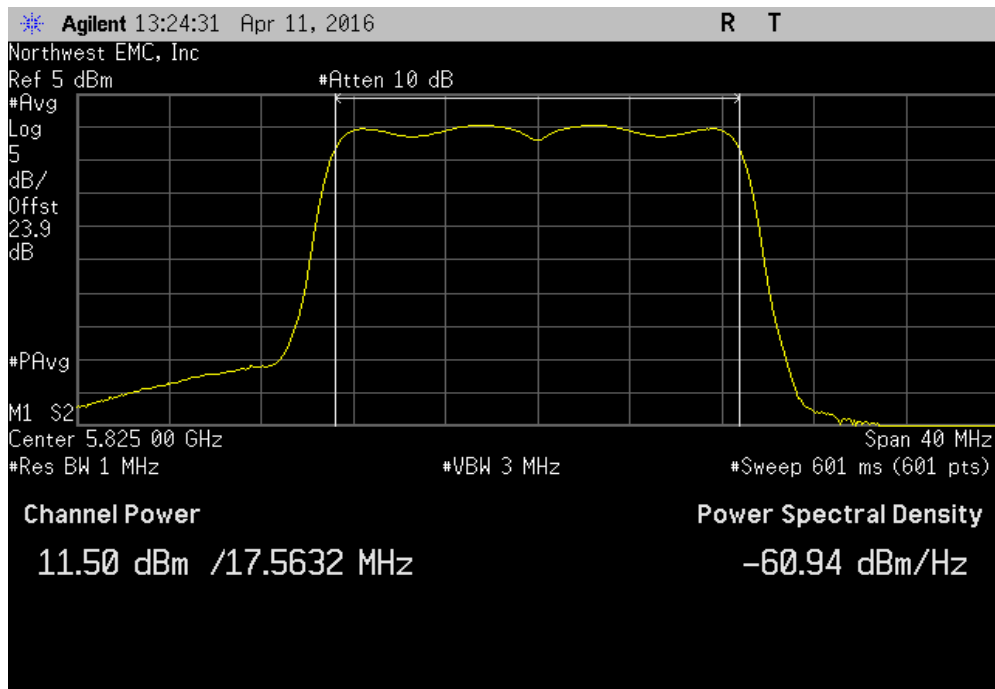


# MAXIMUM CONDUCTED OUTPUT POWER

| SISO, Chain A, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(n) MCS7 |                        |             |             |         |  |  |
|--------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                       | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 11.145                                                                   | 0.4                    | 11.6        | 30          | Pass    |  |  |

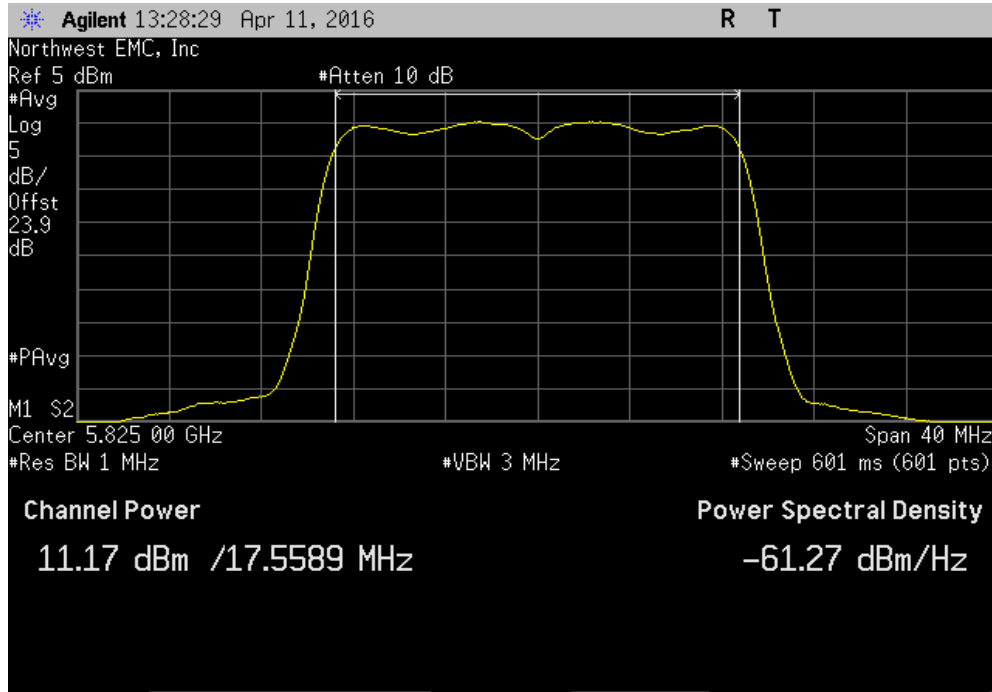


| SISO, Chain A, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(ac) MCS0 |                        |             |             |         |  |  |
|---------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                        | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 11.504                                                                    | 0                      | 11.5        | 30          | Pass    |  |  |

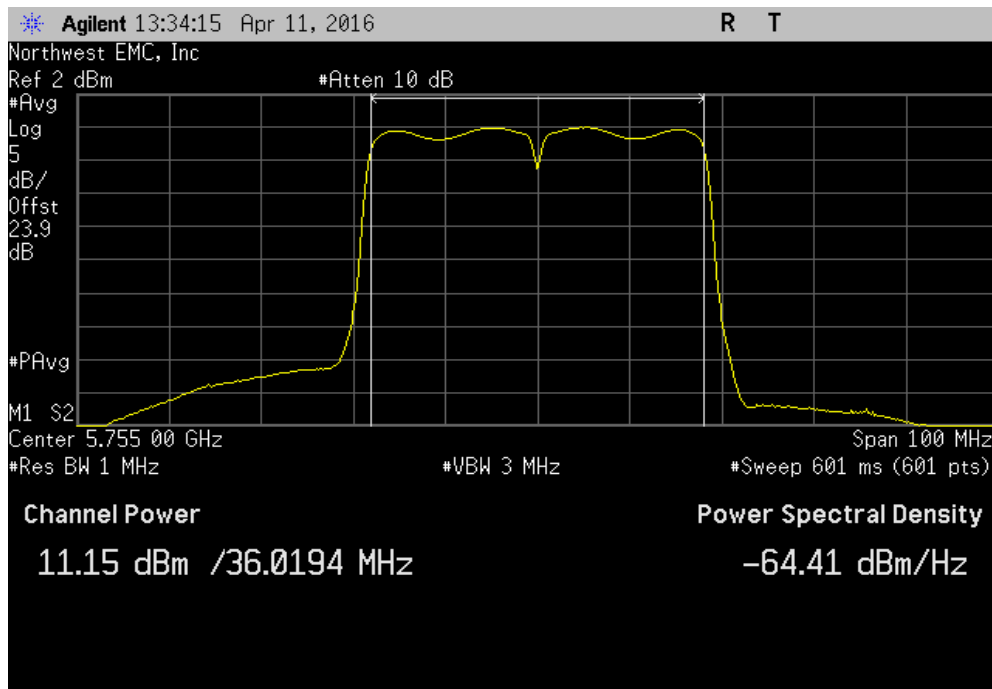


# MAXIMUM CONDUCTED OUTPUT POWER

| SISO, Chain A, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(ac) MCS8 |                        |             |             |         |  |
|---------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|
| Avg Cond Pwr (dBm)                                                        | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |
| 11.174                                                                    | 0.4                    | 11.6        | 30          | Pass    |  |

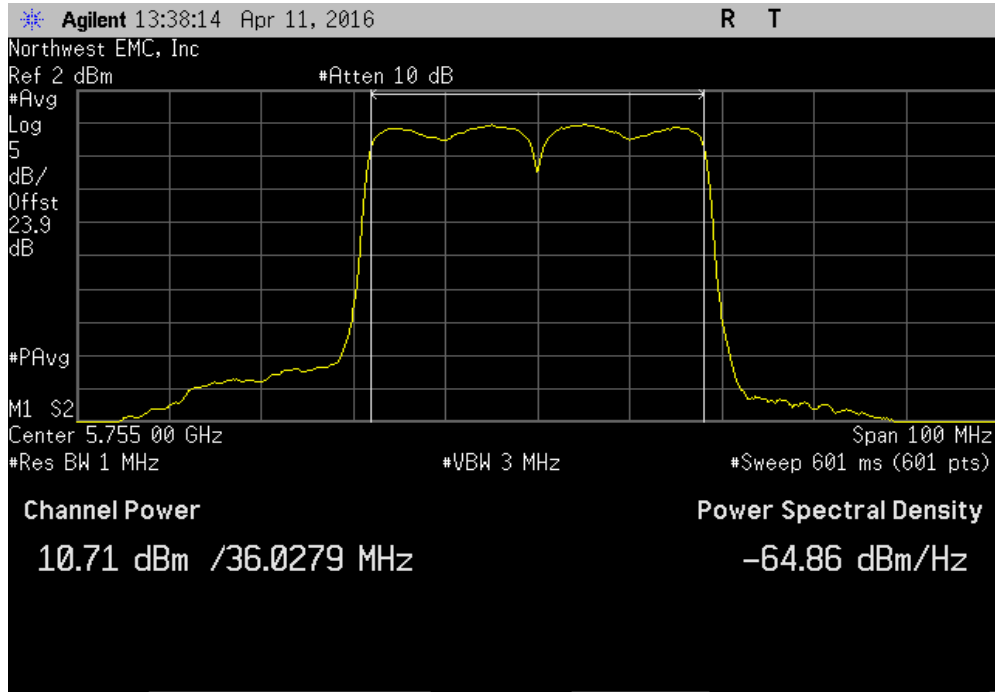


| SISO, Chain A, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(n) MCS0 |                        |             |             |         |  |
|-----------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|
| Avg Cond Pwr (dBm)                                                          | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |
| 11.152                                                                      | 0.2                    | 11.3        | 30          | Pass    |  |

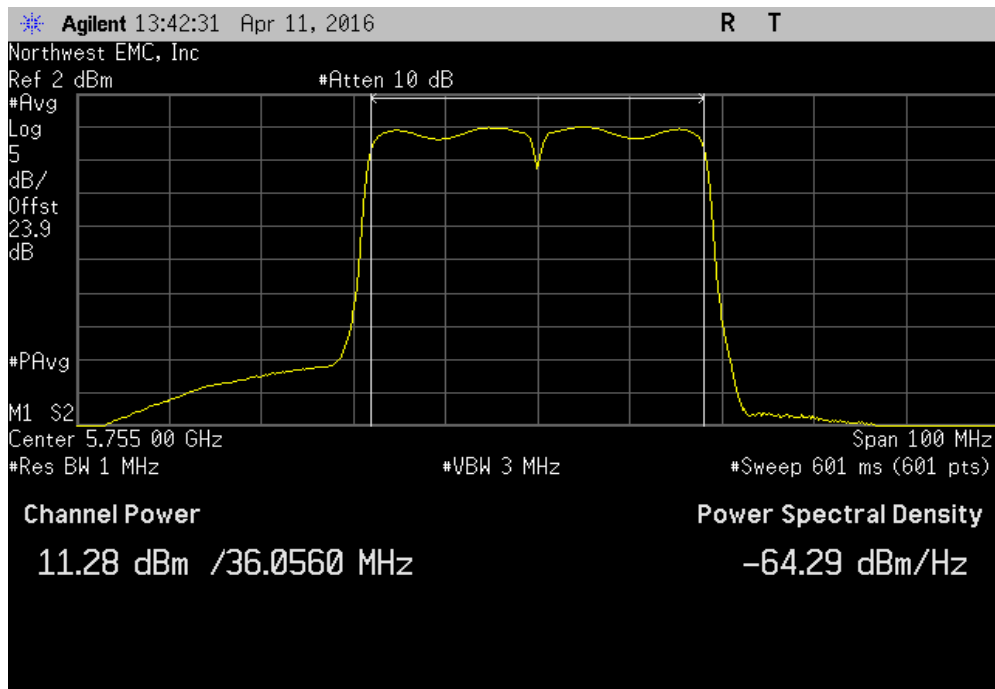


# MAXIMUM CONDUCTED OUTPUT POWER

| SISO, Chain A, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(n) MCS7 |                        |             |             |         |  |  |
|-----------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                          | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 10.709                                                                      | 1.5                    | 12.2        | 30          | Pass    |  |  |

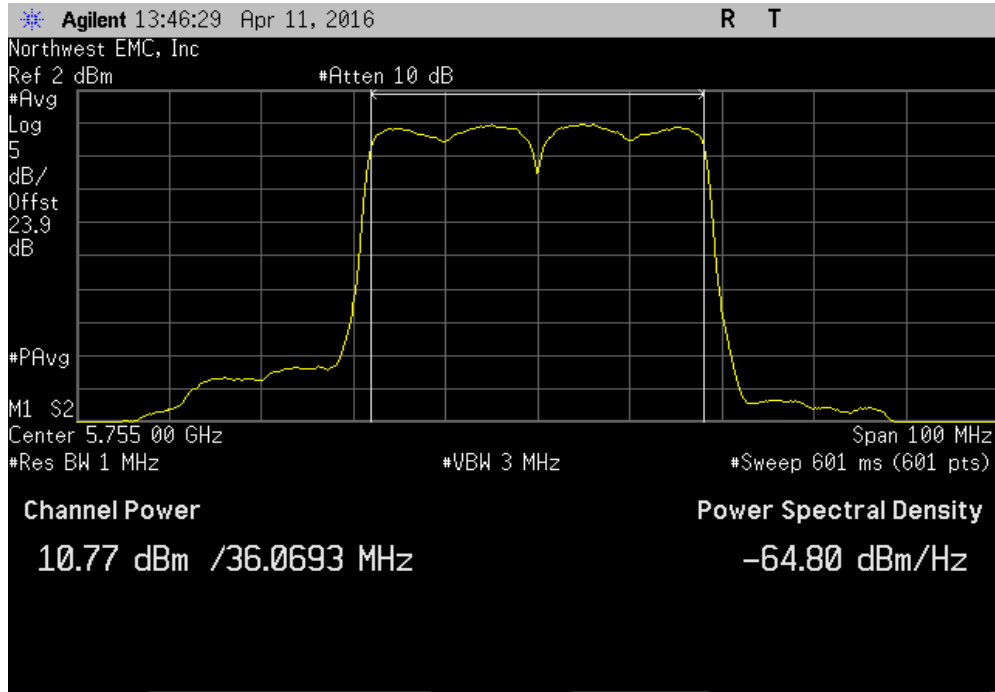


| SISO, Chain A, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(ac) MCS0 |                        |             |             |         |  |  |
|------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                           | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 11.279                                                                       | 0.2                    | 11.4        | 30          | Pass    |  |  |

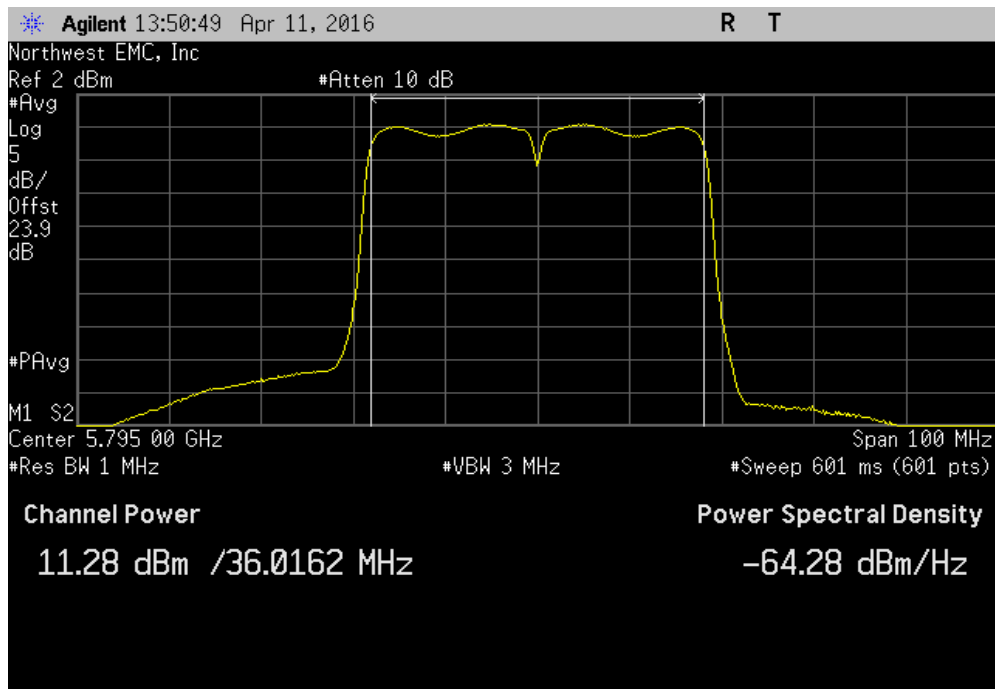


# MAXIMUM CONDUCTED OUTPUT POWER

| SISO, Chain A, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(ac) MCS9 |                        |             |             |         |  |  |
|------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                           | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 10.77                                                                        | 1.6                    | 12.4        | 30          | Pass    |  |  |

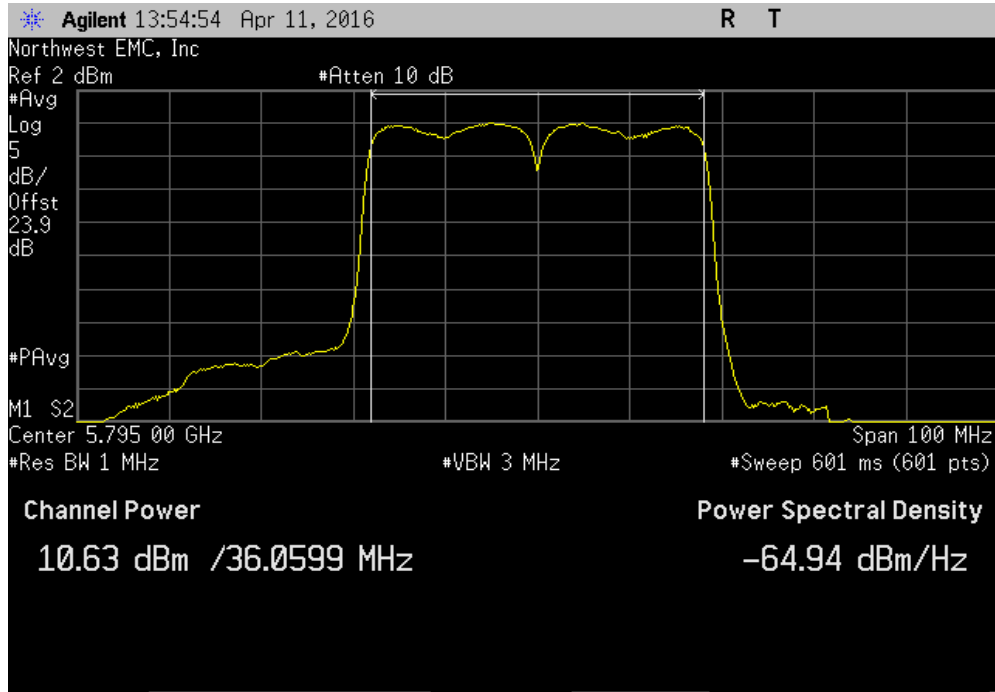


| SISO, Chain A, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(n) MCS0 |                        |             |             |         |  |  |
|------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                           | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 11.281                                                                       | 0.2                    | 11.4        | 30          | Pass    |  |  |

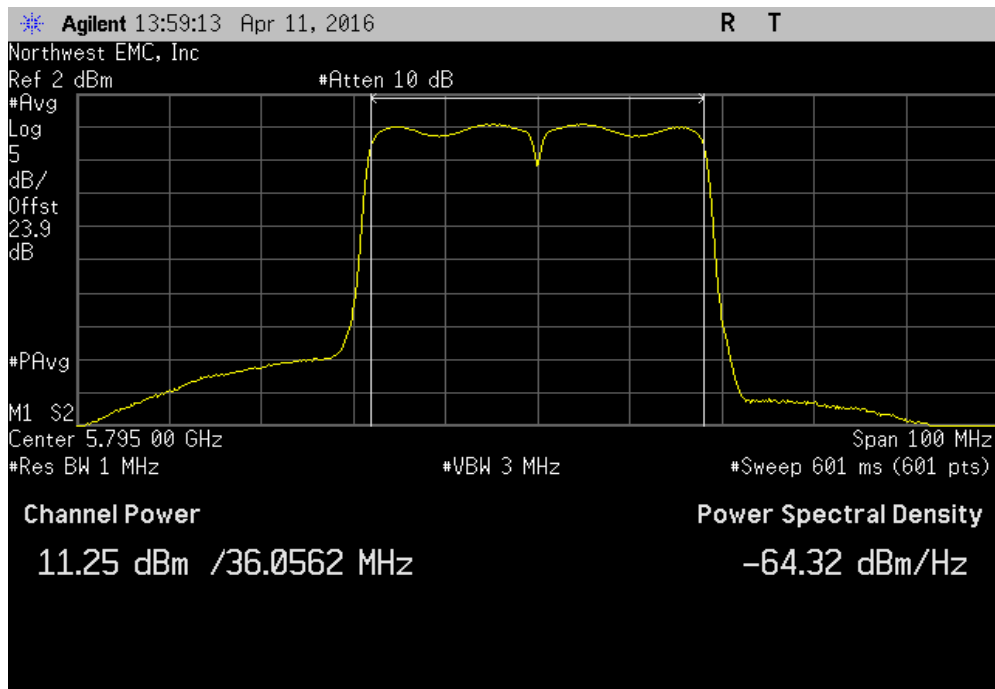


# MAXIMUM CONDUCTED OUTPUT POWER

| SISO, Chain A, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(n) MCS7 |                        |             |             |         |  |  |
|------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                           | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 10.629                                                                       | 1.5                    | 12.1        | 30          | Pass    |  |  |

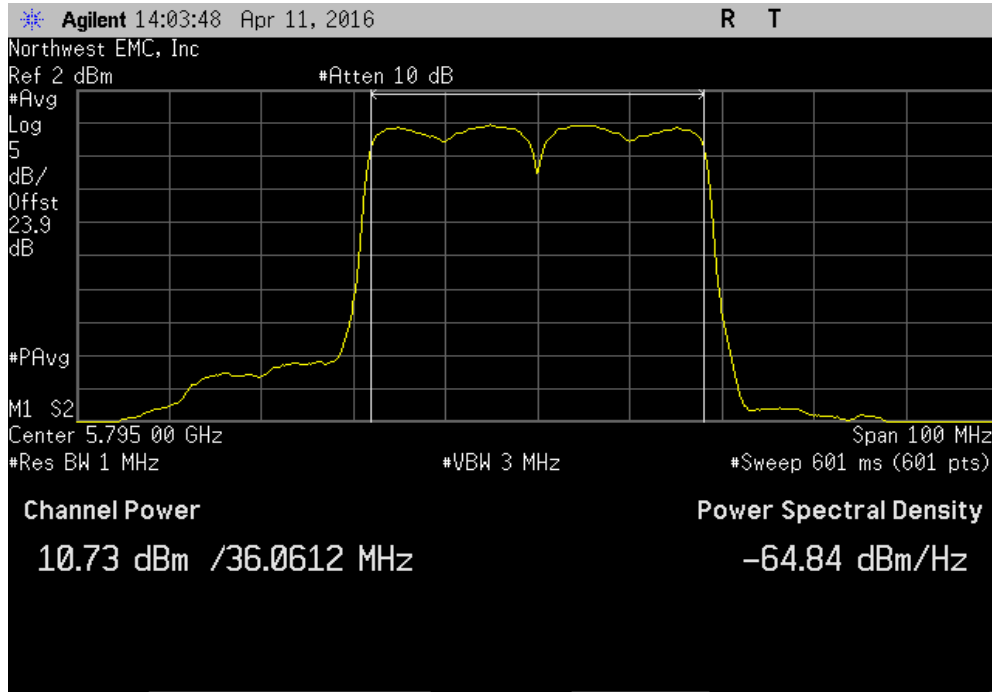


| SISO, Chain A, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(ac) MCS0 |                        |             |             |         |  |  |
|-------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                            | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 11.254                                                                        | 0.2                    | 11.4        | 30          | Pass    |  |  |

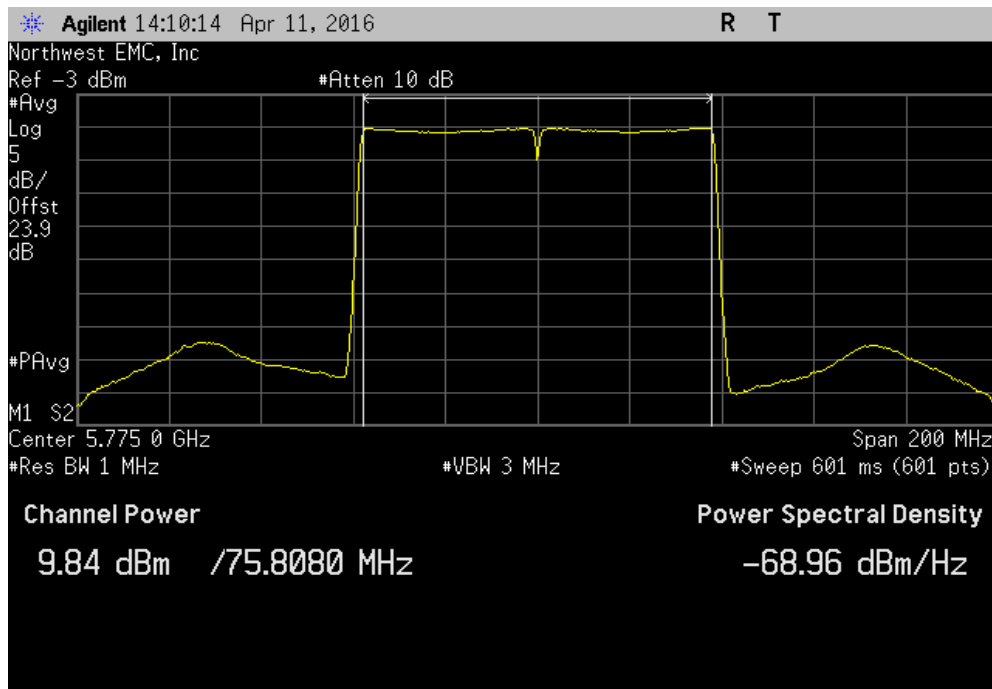


# MAXIMUM CONDUCTED OUTPUT POWER

| SISO, Chain A, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(ac) MCS9 |                        |             |             |         |  |
|-------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|
| Avg Cond Pwr (dBm)                                                            | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |
| 10.734                                                                        | 1.6                    | 12.4        | 30          | Pass    |  |



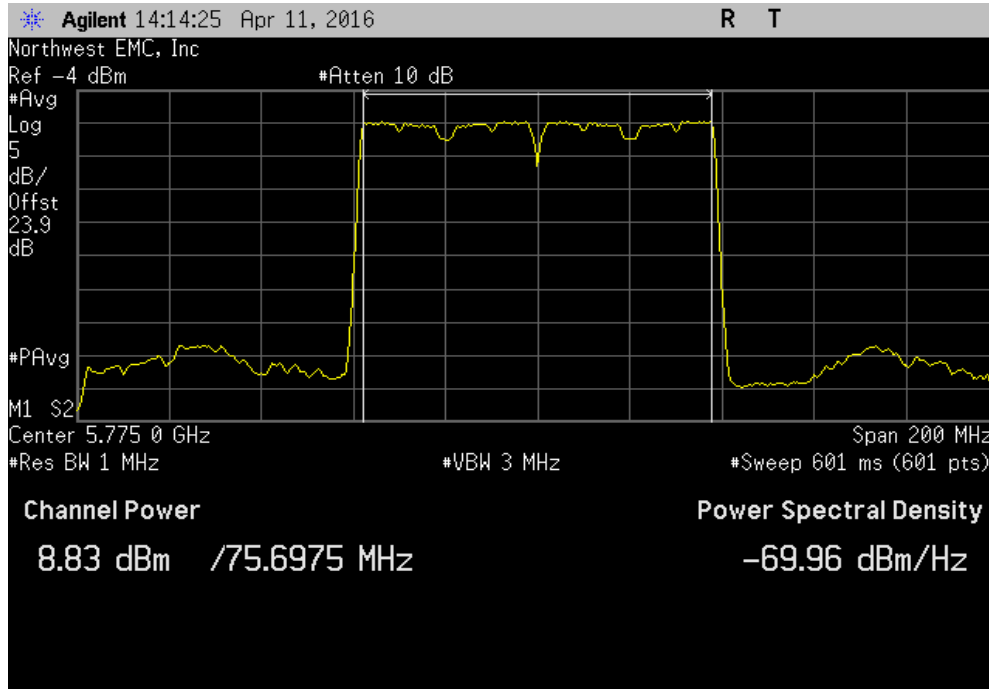
| SISO, Chain A, 80MHz BW, Mid Channel, Ch 149/161 - 5775 MHz, 802.11(ac) MCS0 |                        |             |             |         |  |
|------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|
| Avg Cond Pwr (dBm)                                                           | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |
| 9.841                                                                        | 0.3                    | 10.2        | 30          | Pass    |  |



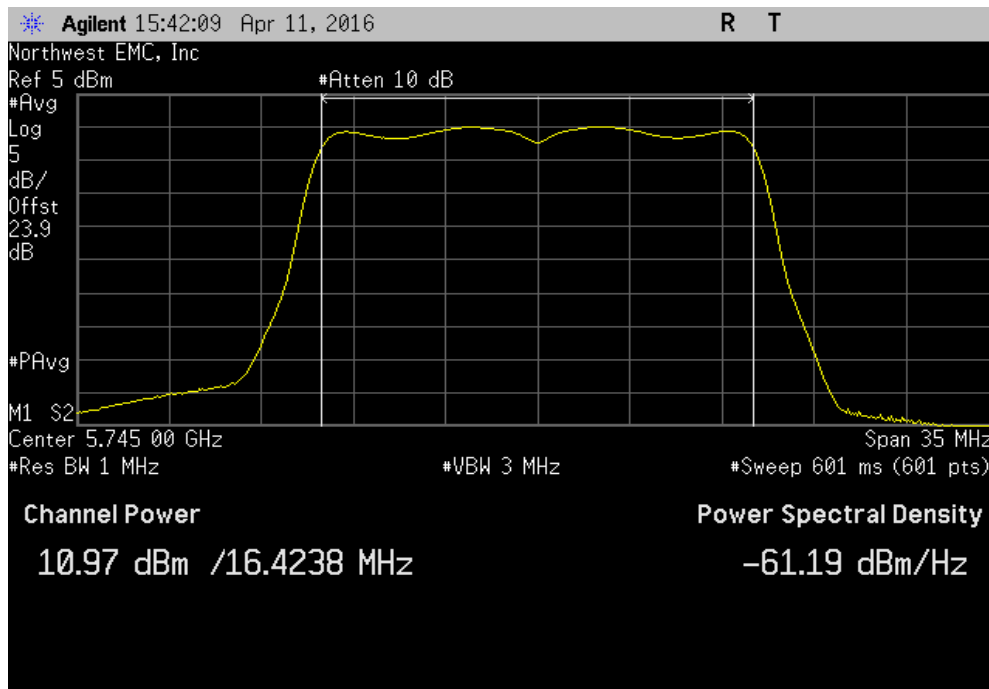


# MAXIMUM CONDUCTED OUTPUT POWER

| SISO, Chain A, 80MHz BW, Mid Channel, Ch 149/161 - 5775 MHz, 802.11(ac) MCS9 |                        |             |             |         |  |
|------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|
| Avg Cond Pwr (dBm)                                                           | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |
| 8.83                                                                         | 1.8                    | 10.7        | 30          | Pass    |  |

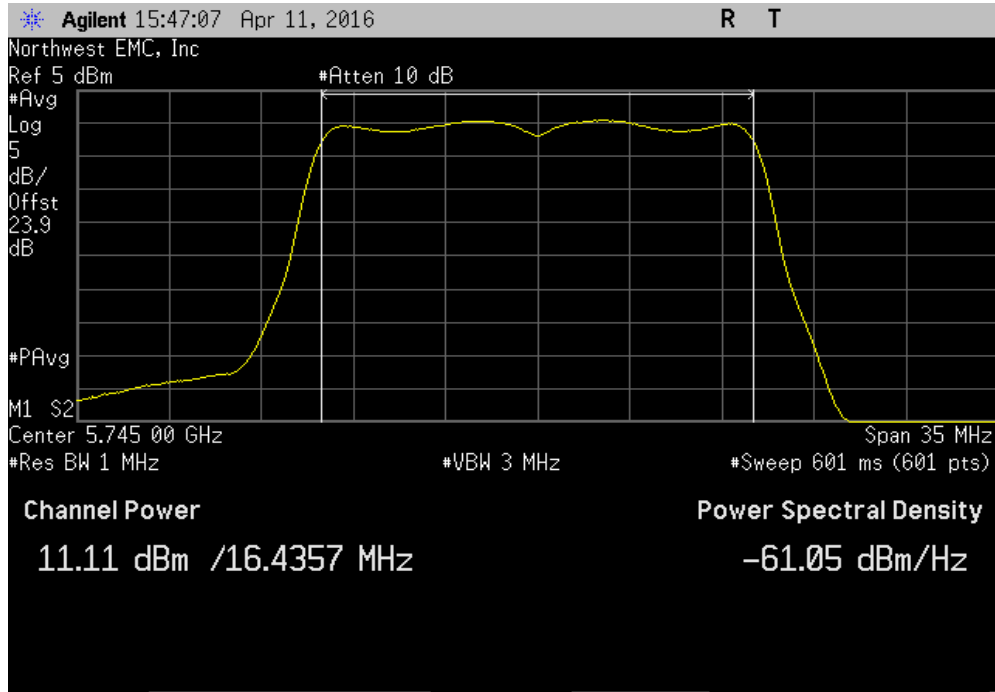


| SISO, Chain B, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(a) 6 Mbps |                        |             |             |         |  |
|---------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|
| Avg Cond Pwr (dBm)                                                        | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |
| 10.968                                                                    | 0                      | 11          | 30          | Pass    |  |

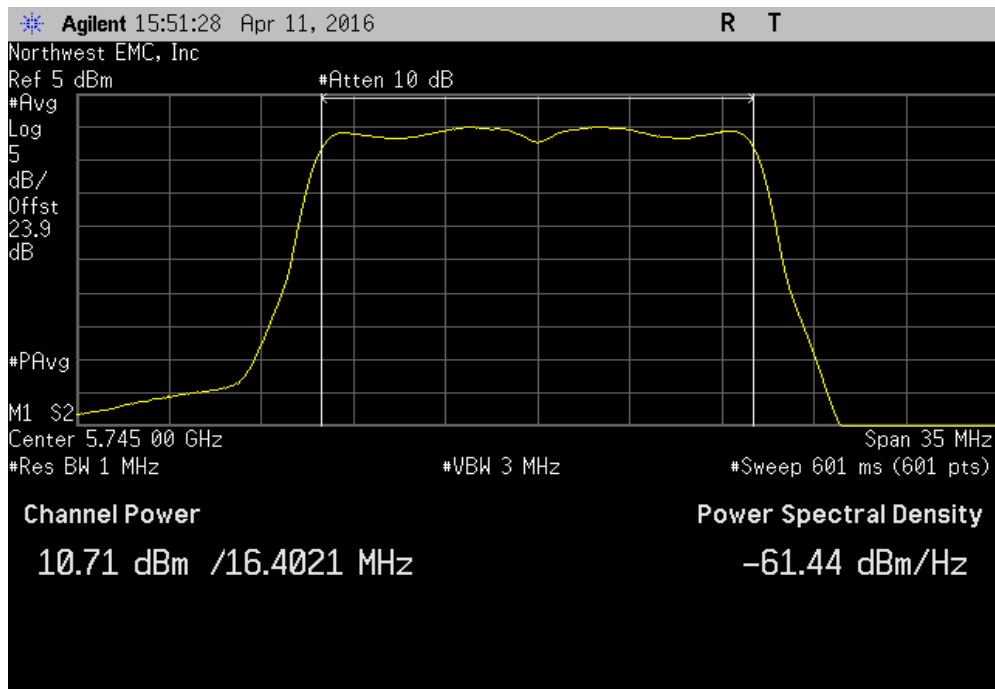


# MAXIMUM CONDUCTED OUTPUT POWER

| SISO, Chain B, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(a) 36 Mbps |                        |             |             |         |  |
|----------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|
| Avg Cond Pwr (dBm)                                                         | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |
| 11.107                                                                     | 0.3                    | 11.4        | 30          | Pass    |  |

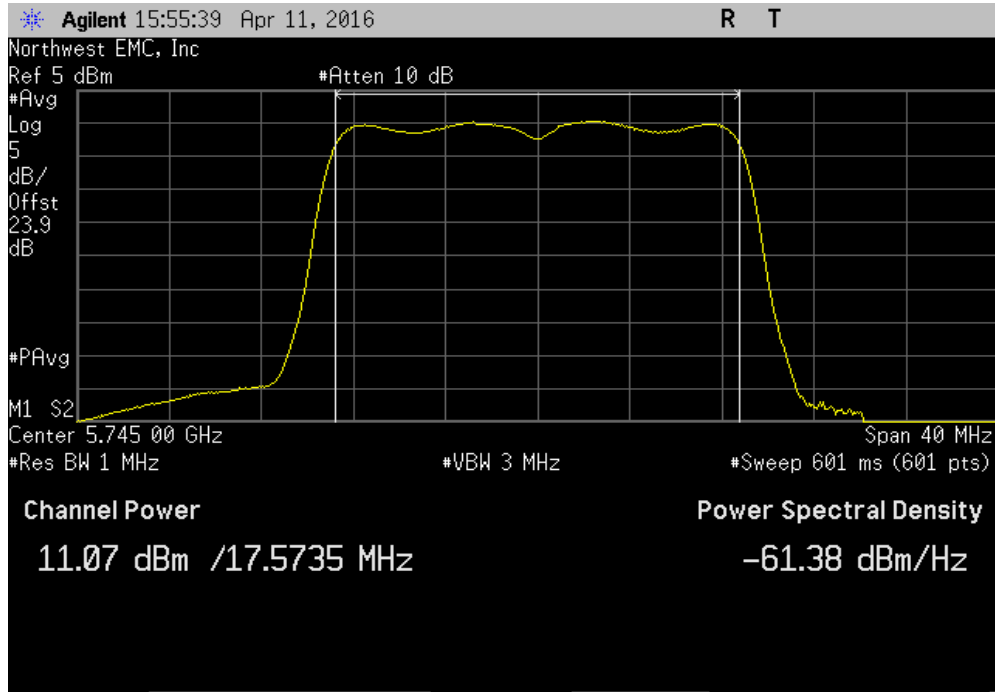


| SISO, Chain B, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(a) 54 Mbps |                        |             |             |         |  |
|----------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|
| Avg Cond Pwr (dBm)                                                         | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |
| 10.707                                                                     | 0.4                    | 11.1        | 30          | Pass    |  |

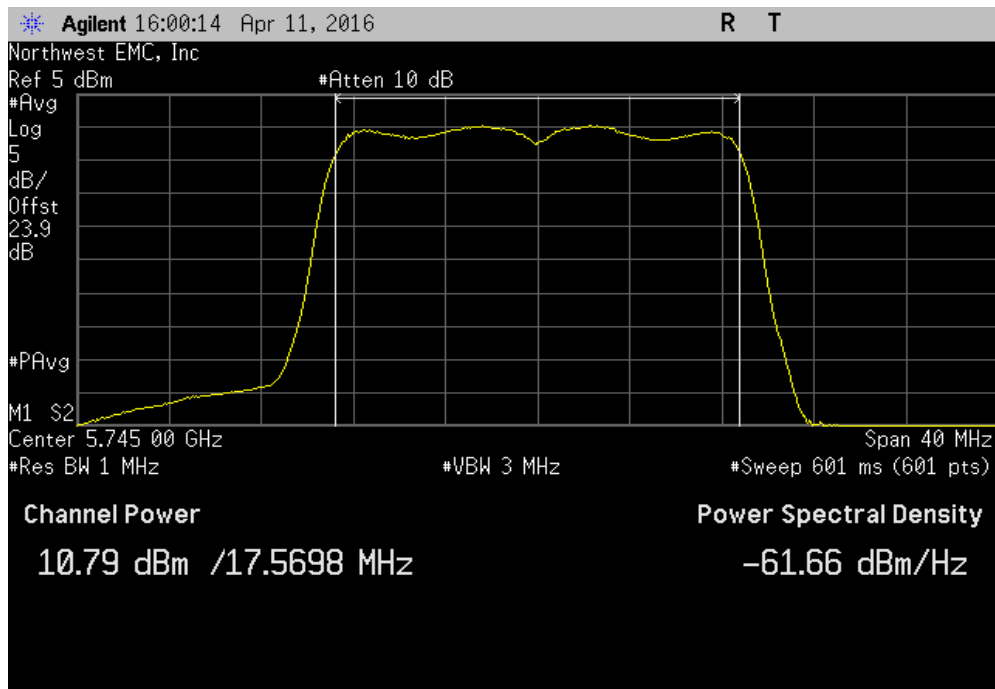


# MAXIMUM CONDUCTED OUTPUT POWER

| SISO, Chain B, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(n) MCS0 |             |  |       |       |         |  |
|-------------------------------------------------------------------------|-------------|--|-------|-------|---------|--|
| Avg Cond                                                                | Duty Cycle  |  | Value | Limit | Results |  |
| Pwr (dBm)                                                               | Factor (dB) |  | (dBm) | (dBm) |         |  |
| 11.069                                                                  | 0           |  | 11.1  | 30    | Pass    |  |

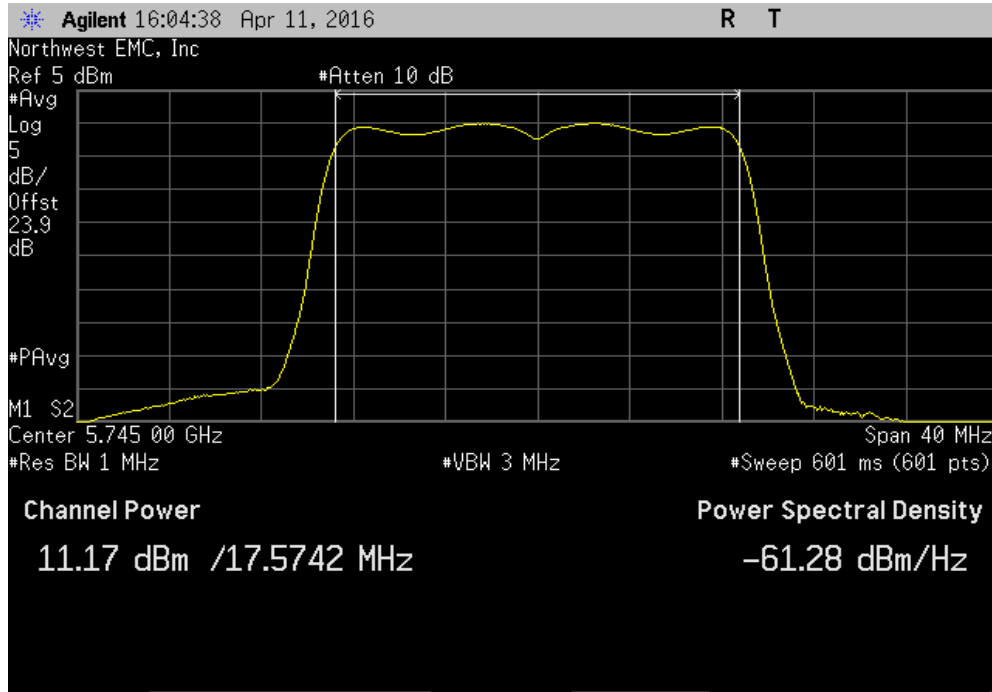


| SISO, Chain B, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(n) MCS7 |             |  |       |       |         |  |
|-------------------------------------------------------------------------|-------------|--|-------|-------|---------|--|
| Avg Cond                                                                | Duty Cycle  |  | Value | Limit | Results |  |
| Pwr (dBm)                                                               | Factor (dB) |  | (dBm) | (dBm) |         |  |
| 10.787                                                                  | 0.4         |  | 11.2  | 30    | Pass    |  |

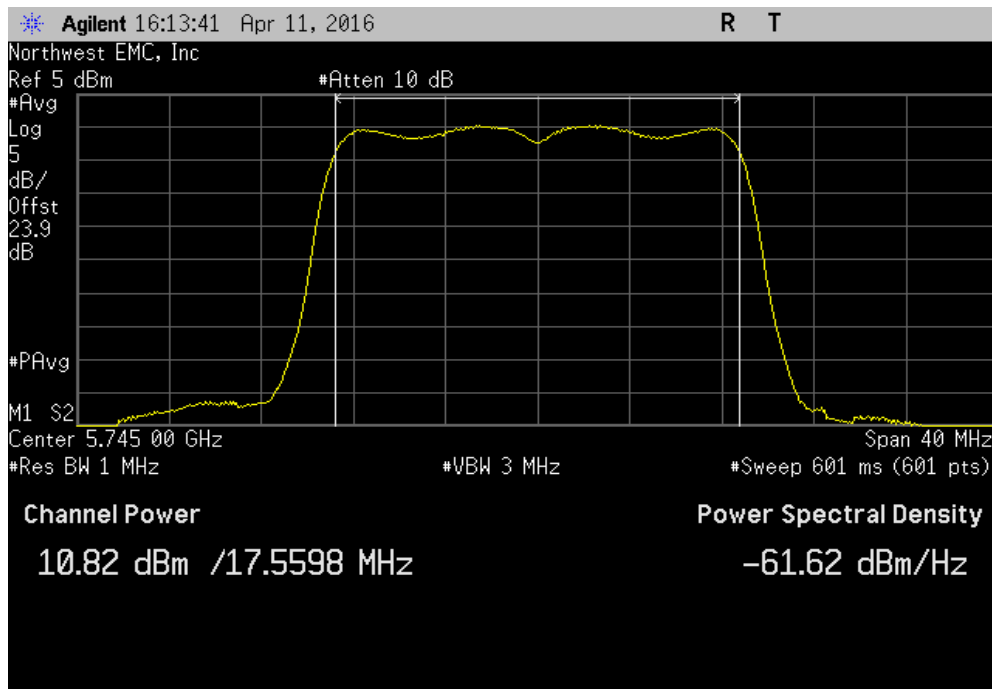


# MAXIMUM CONDUCTED OUTPUT POWER

| SISO, Chain B, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(ac) MCS0 |                        |             |             |         |  |  |
|--------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                       | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 11.173                                                                   | 0                      | 11.2        | 30          | Pass    |  |  |

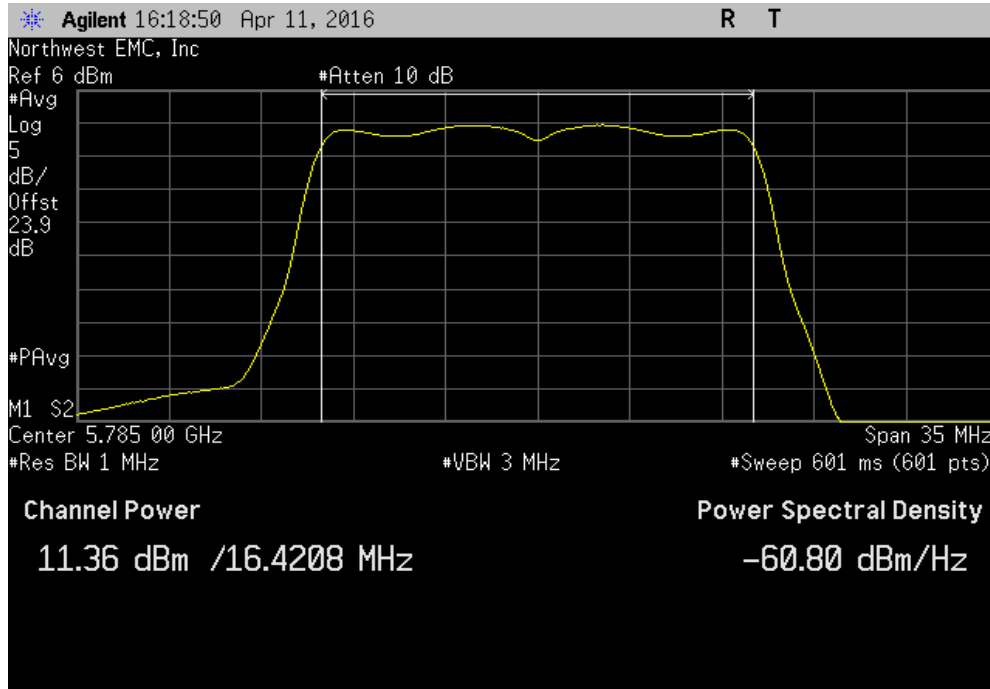


| SISO, Chain B, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(ac) MCS8 |                        |             |             |         |  |  |
|--------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                       | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 10.823                                                                   | 0.4                    | 11.2        | 30          | Pass    |  |  |

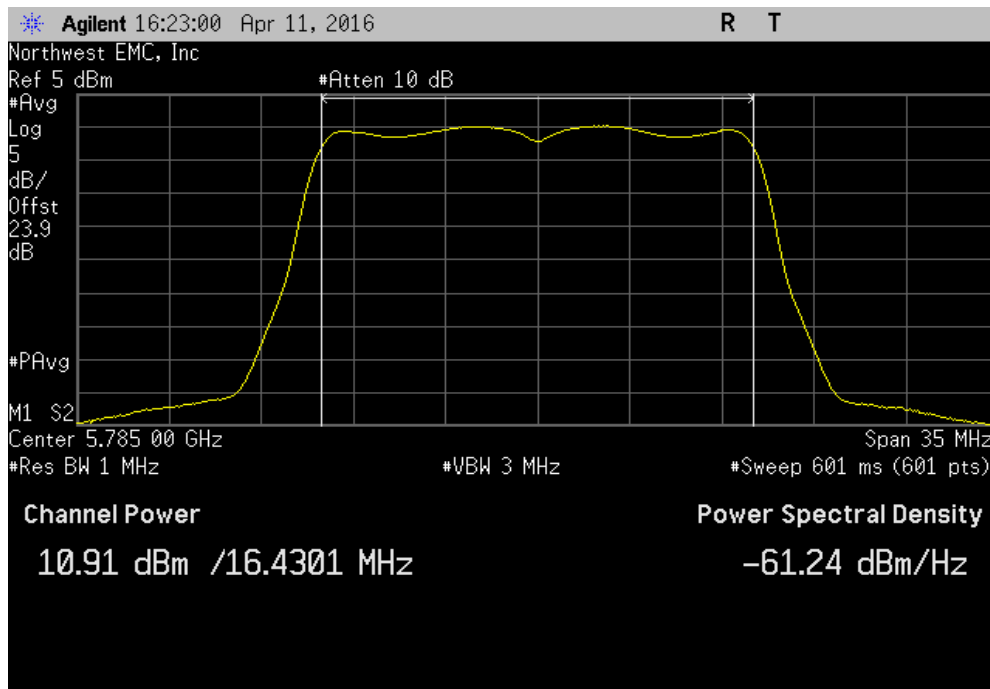


# MAXIMUM CONDUCTED OUTPUT POWER

| SISO, Chain B, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(a) 6 Mbps |                        |             |             |         |  |
|---------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|
| Avg Cond Pwr (dBm)                                                        | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |
| 11.355                                                                    | 0                      | 11.4        | 30          | Pass    |  |

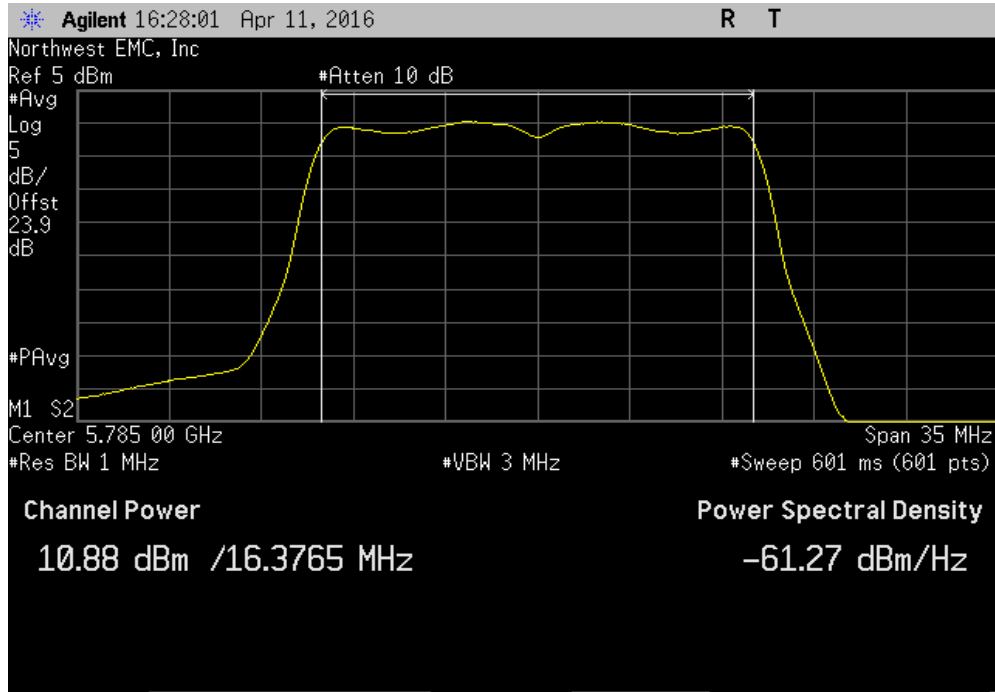


| SISO, Chain B, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(a) 36 Mbps |                        |             |             |         |  |
|----------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|
| Avg Cond Pwr (dBm)                                                         | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |
| 10.914                                                                     | 0.3                    | 11.2        | 30          | Pass    |  |

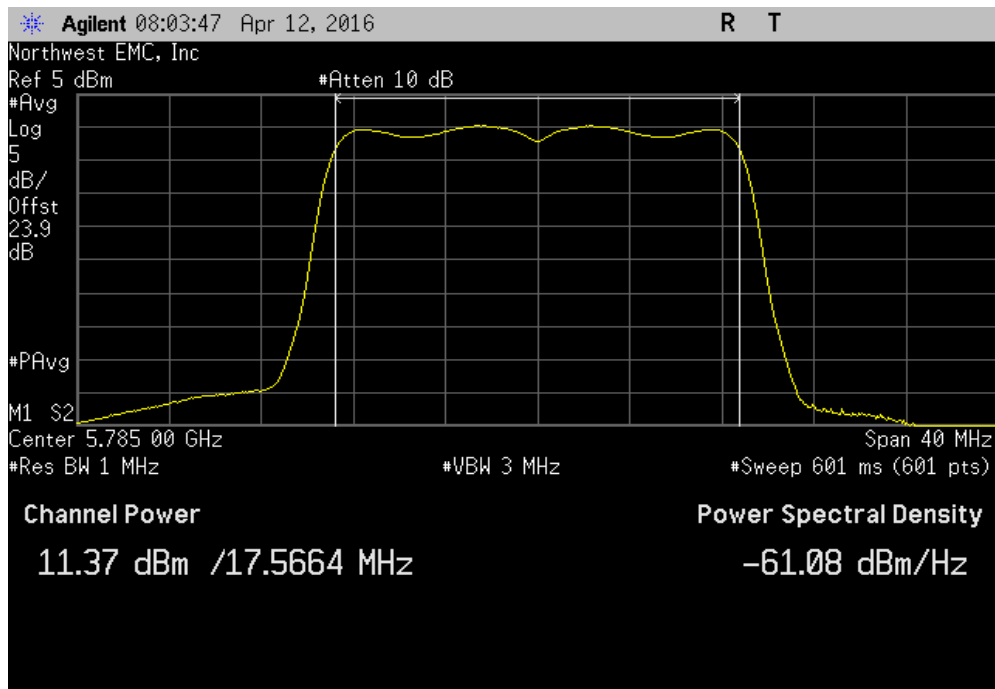


# MAXIMUM CONDUCTED OUTPUT POWER

| SISO, Chain B, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(a) 54 Mbps |             |       |       |         |  |  |
|----------------------------------------------------------------------------|-------------|-------|-------|---------|--|--|
| Avg Cond                                                                   | Duty Cycle  | Value | Limit | Results |  |  |
| Pwr (dBm)                                                                  | Factor (dB) | (dBm) | (dBm) |         |  |  |
| 10.876                                                                     | 0.4         | 11.3  | 30    | Pass    |  |  |

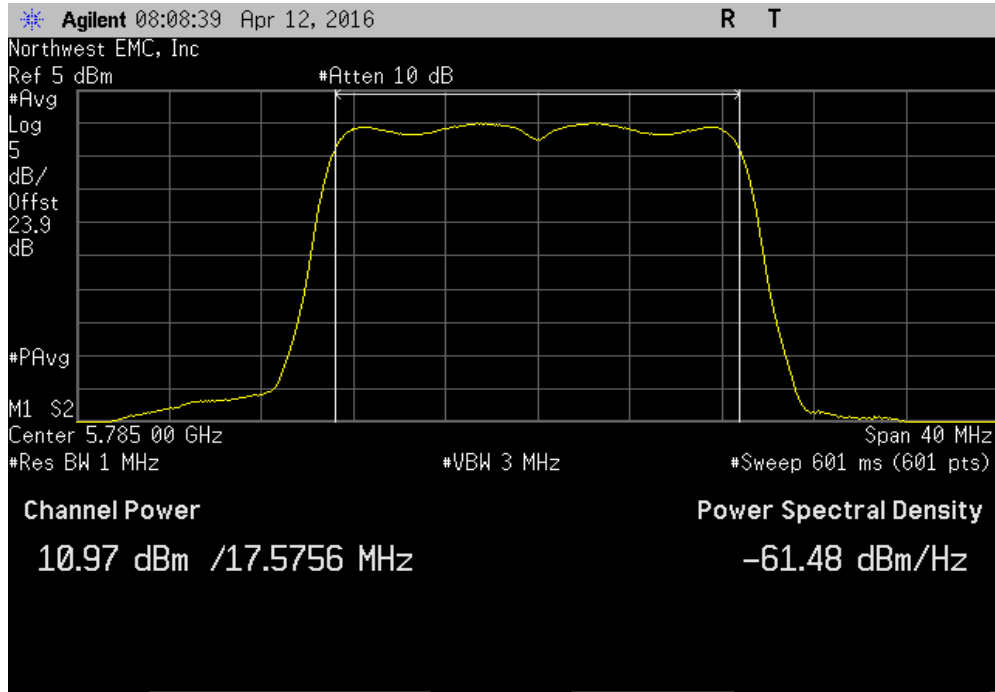


| SISO, Chain B, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(n) MCS0 |             |       |       |         |  |  |
|-------------------------------------------------------------------------|-------------|-------|-------|---------|--|--|
| Avg Cond                                                                | Duty Cycle  | Value | Limit | Results |  |  |
| Pwr (dBm)                                                               | Factor (dB) | (dBm) | (dBm) |         |  |  |
| 11.367                                                                  | 0           | 11.4  | 30    | Pass    |  |  |

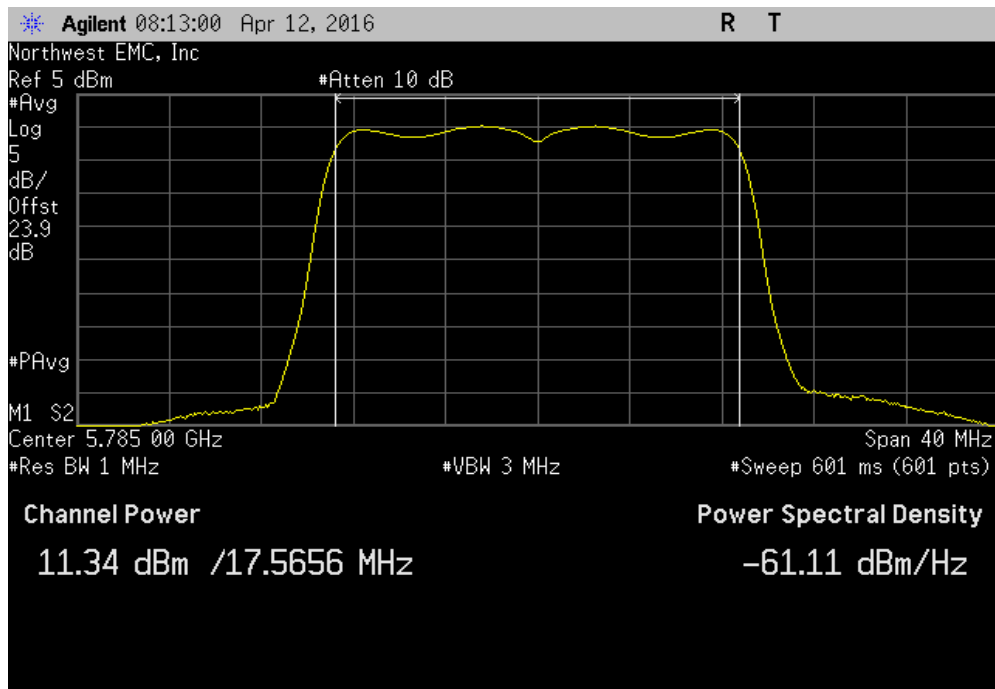


# MAXIMUM CONDUCTED OUTPUT POWER

| SISO, Chain B, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(n) MCS7 |             |       |       |         |  |  |
|-------------------------------------------------------------------------|-------------|-------|-------|---------|--|--|
| Avg Cond                                                                | Duty Cycle  | Value | Limit | Results |  |  |
| Pwr (dBm)                                                               | Factor (dB) | (dBm) | (dBm) |         |  |  |
| 10.967                                                                  | 0.4         | 11.4  | 30    | Pass    |  |  |

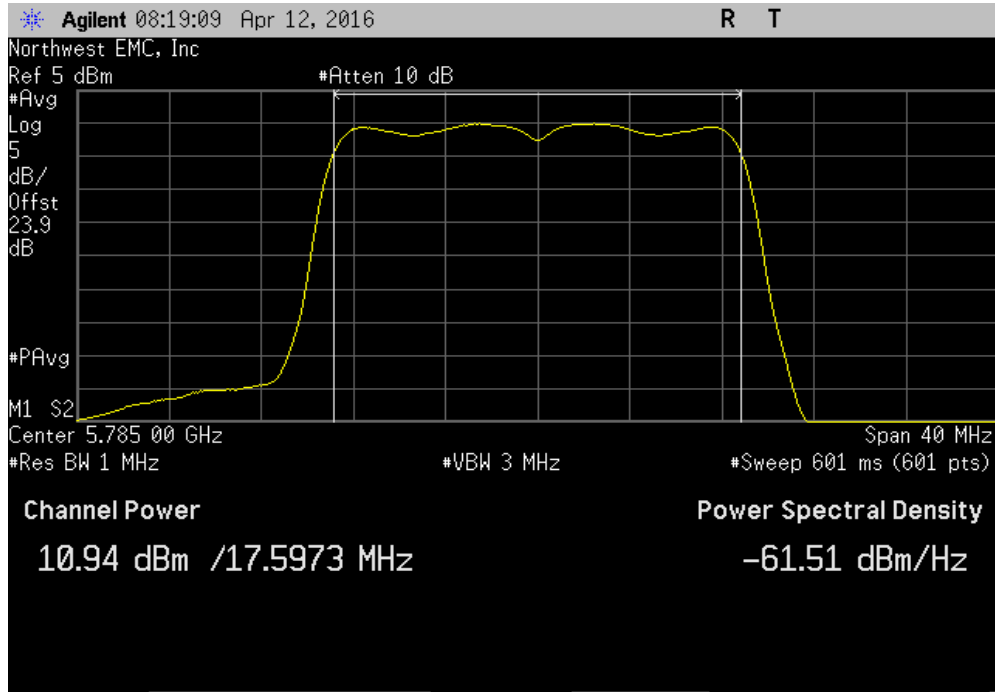


| SISO, Chain B, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(ac) MCS0 |             |       |       |         |  |  |
|--------------------------------------------------------------------------|-------------|-------|-------|---------|--|--|
| Avg Cond                                                                 | Duty Cycle  | Value | Limit | Results |  |  |
| Pwr (dBm)                                                                | Factor (dB) | (dBm) | (dBm) |         |  |  |
| 11.341                                                                   | 0           | 11.4  | 30    | Pass    |  |  |

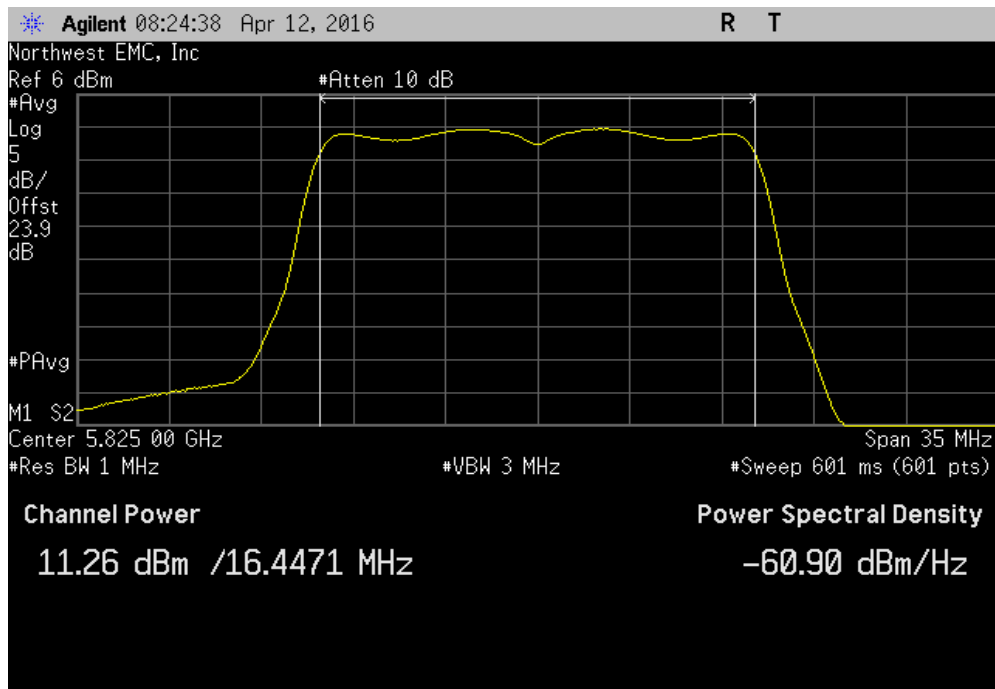


# MAXIMUM CONDUCTED OUTPUT POWER

| SISO, Chain B, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(ac) MCS8 |                        |             |             |         |  |
|--------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|
| Avg Cond Pwr (dBm)                                                       | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |
| 10.942                                                                   | 0.4                    | 11.4        | 30          | Pass    |  |



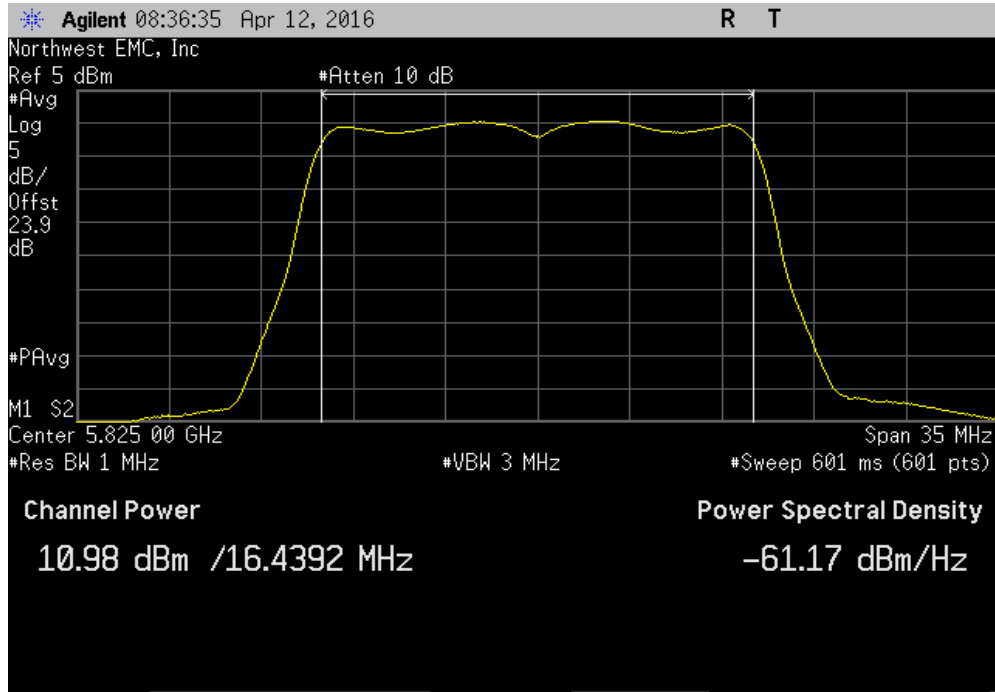
| SISO, Chain B, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(a) 6 Mbps |                        |             |             |         |  |
|----------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|
| Avg Cond Pwr (dBm)                                                         | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |
| 11.263                                                                     | 0                      | 11.3        | 30          | Pass    |  |



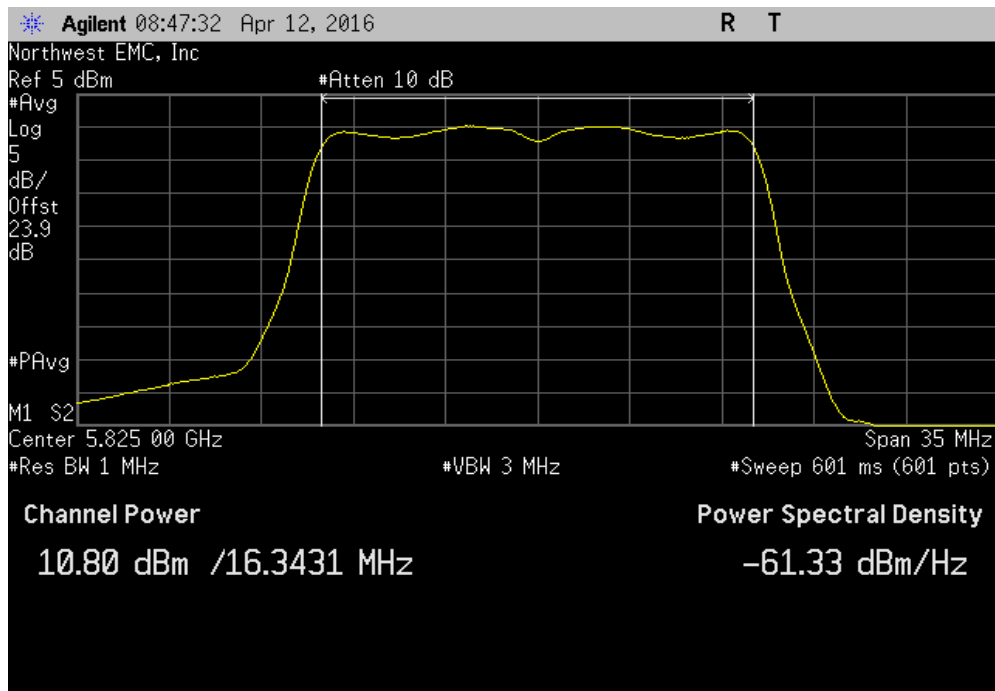


# MAXIMUM CONDUCTED OUTPUT POWER

| SISO, Chain B, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(a) 36 Mbps |                        |             |             |         |  |
|-----------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|
| Avg Cond Pwr (dBm)                                                          | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |
| 10.984                                                                      | 0.3                    | 11.2        | 30          | Pass    |  |

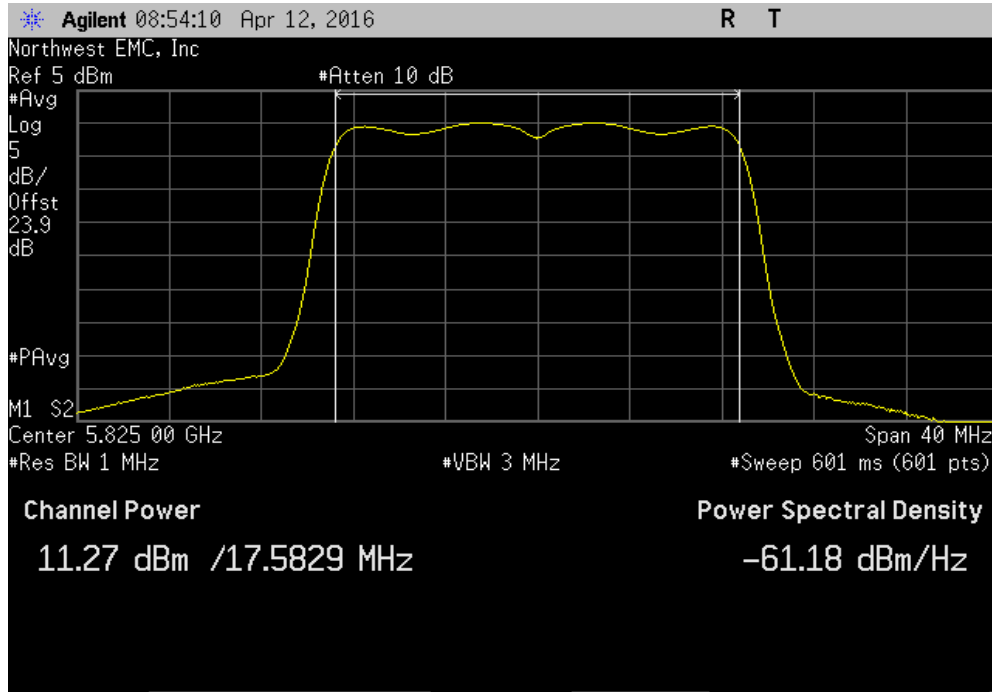


| SISO, Chain B, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(a) 54 Mbps |                        |             |             |         |  |
|-----------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|
| Avg Cond Pwr (dBm)                                                          | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |
| 10.802                                                                      | 0.4                    | 11.2        | 30          | Pass    |  |

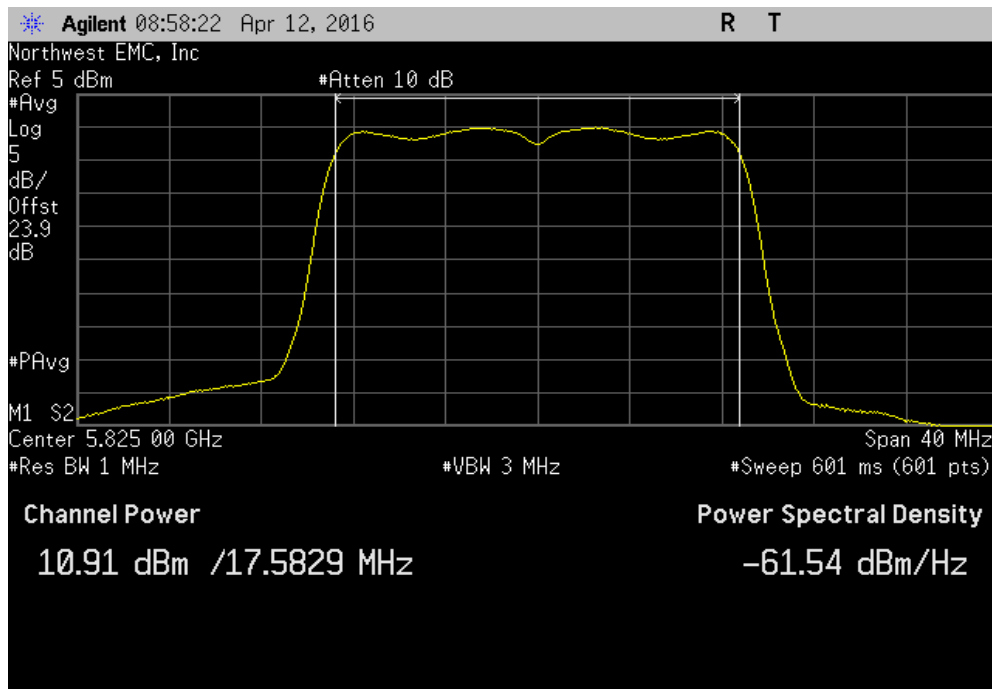


# MAXIMUM CONDUCTED OUTPUT POWER

| SISO, Chain B, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(n) MCS0 |                        |             |             |         |  |  |
|--------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                       | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 11.271                                                                   | 0                      | 11.3        | 30          | Pass    |  |  |

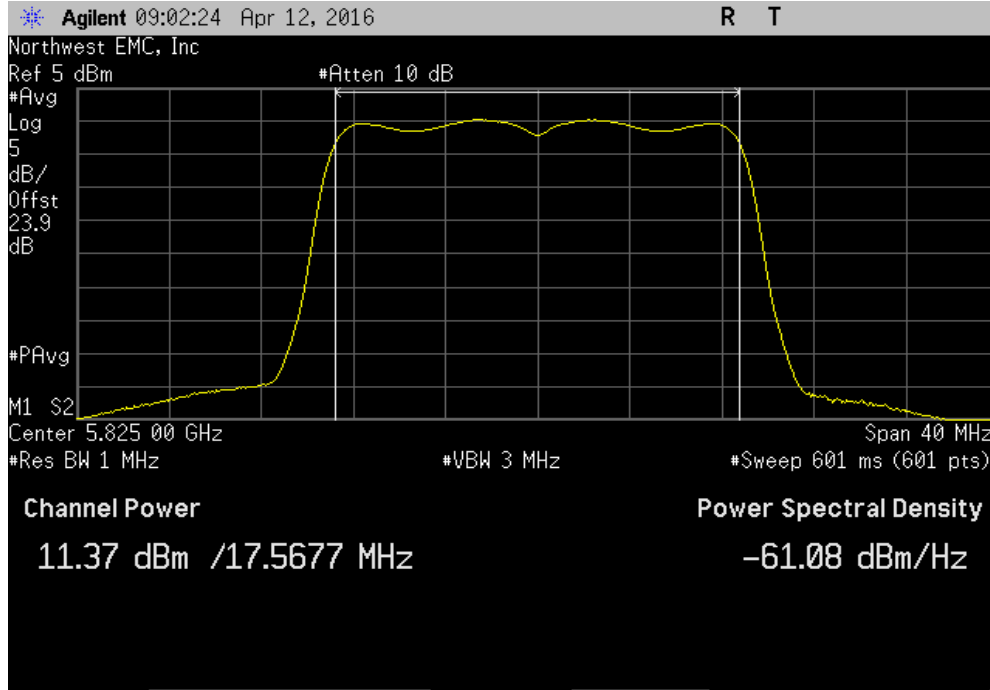


| SISO, Chain B, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(n) MCS7 |                        |             |             |         |  |  |
|--------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                       | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 10.908                                                                   | 0.4                    | 11.3        | 30          | Pass    |  |  |

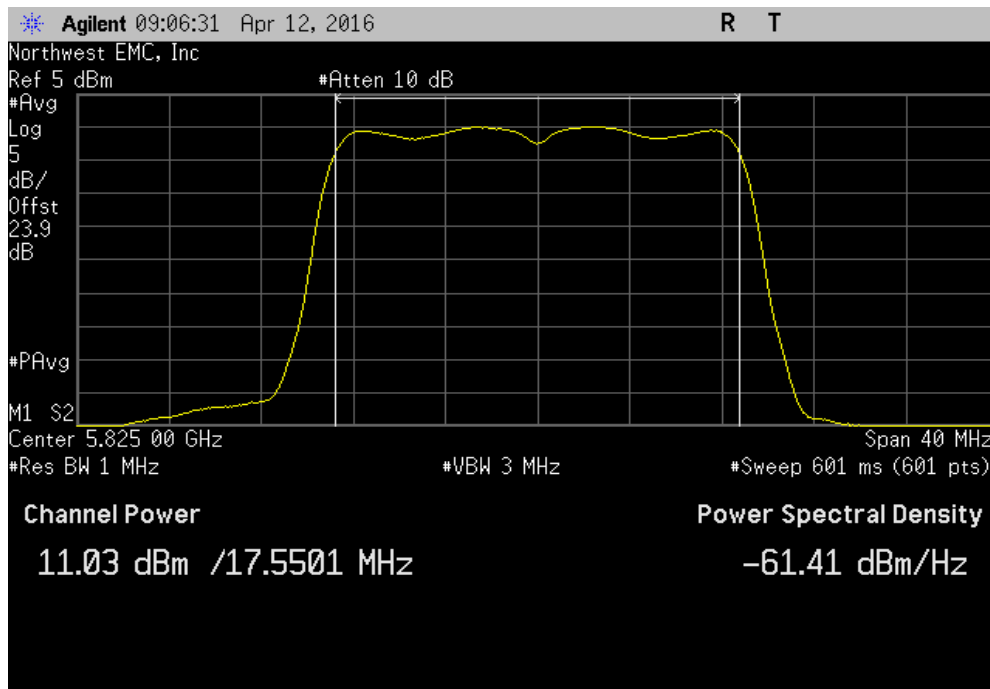


# MAXIMUM CONDUCTED OUTPUT POWER

| SISO, Chain B, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(ac) MCS0 |             |  |       |       |         |  |
|---------------------------------------------------------------------------|-------------|--|-------|-------|---------|--|
| Avg Cond                                                                  | Duty Cycle  |  | Value | Limit | Results |  |
| Pwr (dBm)                                                                 | Factor (dB) |  | (dBm) | (dBm) |         |  |
| 11.371                                                                    | 0           |  | 11.4  | 30    | Pass    |  |

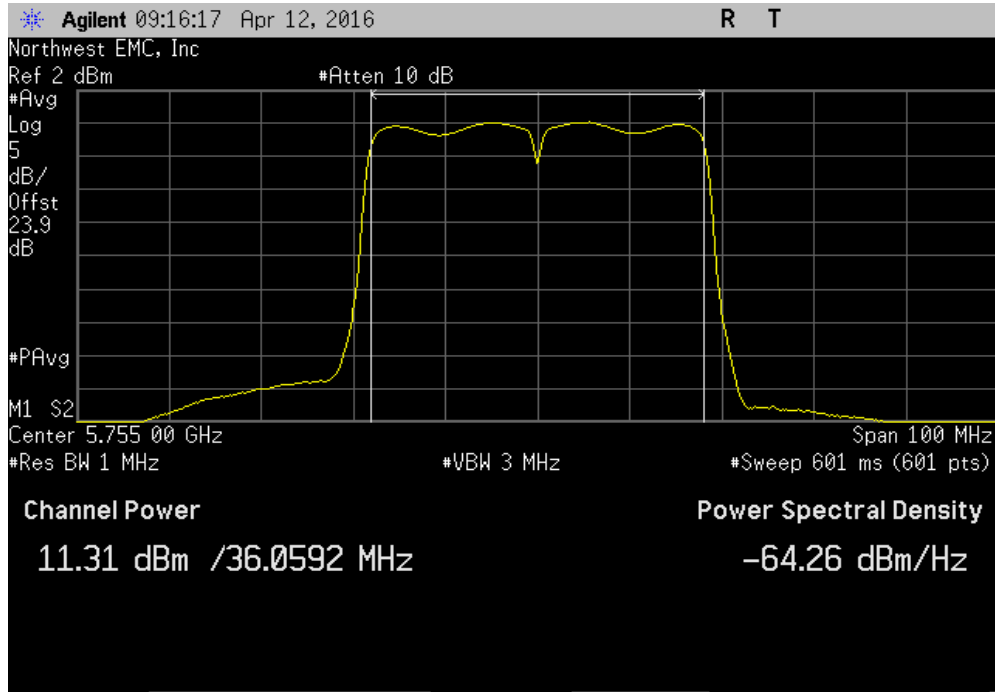


| SISO, Chain B, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(ac) MCS8 |             |  |       |       |         |  |
|---------------------------------------------------------------------------|-------------|--|-------|-------|---------|--|
| Avg Cond                                                                  | Duty Cycle  |  | Value | Limit | Results |  |
| Pwr (dBm)                                                                 | Factor (dB) |  | (dBm) | (dBm) |         |  |
| 11.028                                                                    | 0.4         |  | 11.4  | 30    | Pass    |  |

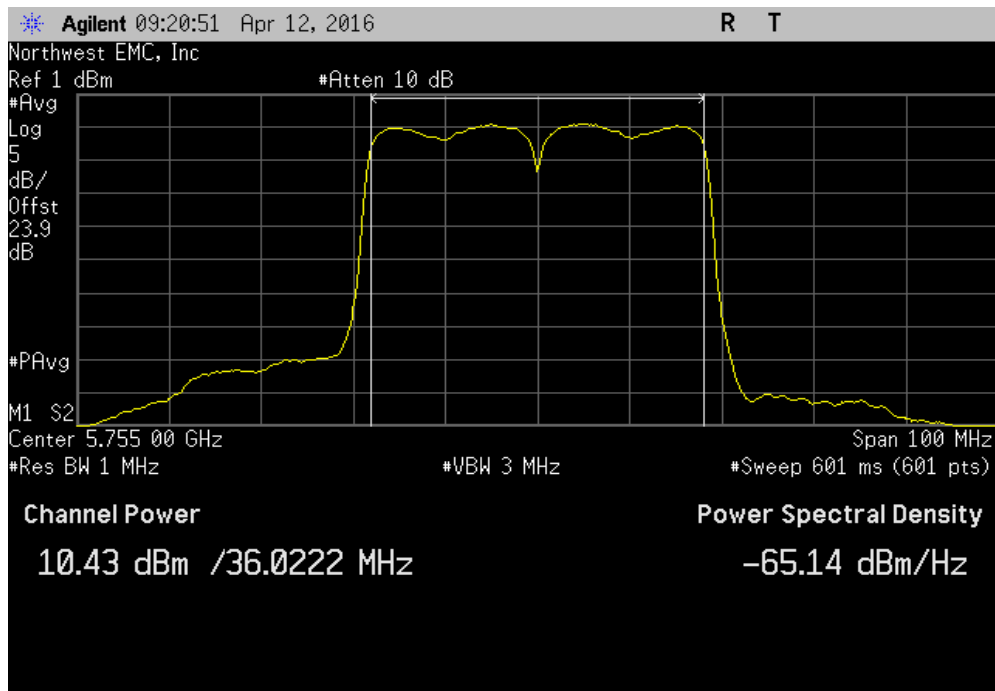


# MAXIMUM CONDUCTED OUTPUT POWER

| SISO, Chain B, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(n) MCS0 |                        |             |             |         |  |
|-----------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|
| Avg Cond Pwr (dBm)                                                          | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |
| 11.307                                                                      | 0.2                    | 11.5        | 30          | Pass    |  |

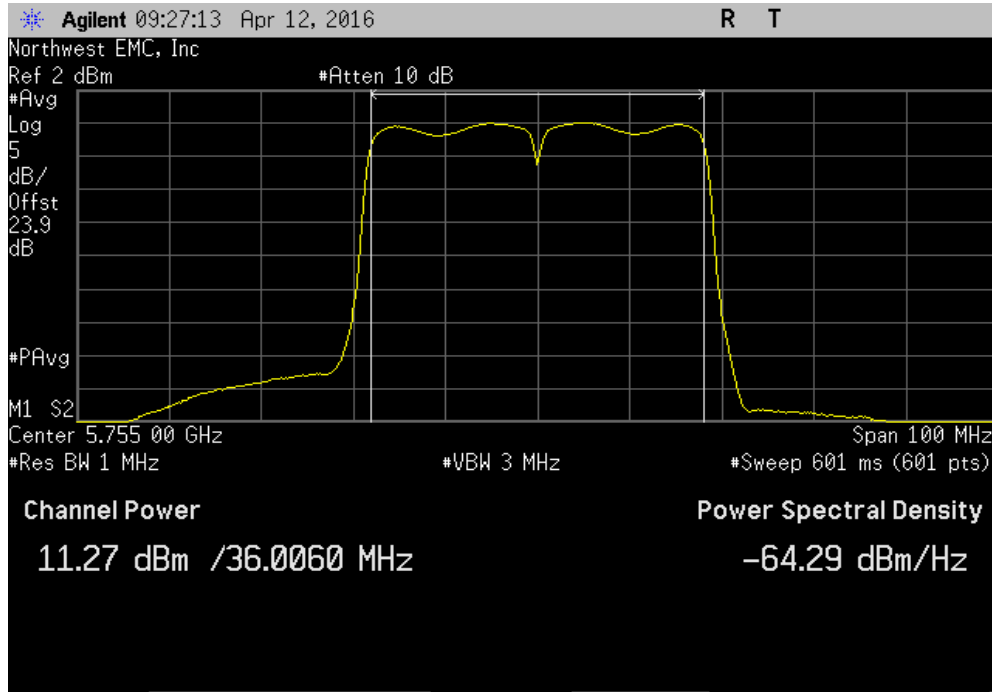


| SISO, Chain B, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(n) MCS7 |                        |             |             |         |  |
|-----------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|
| Avg Cond Pwr (dBm)                                                          | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |
| 10.429                                                                      | 1.5                    | 11.9        | 30          | Pass    |  |

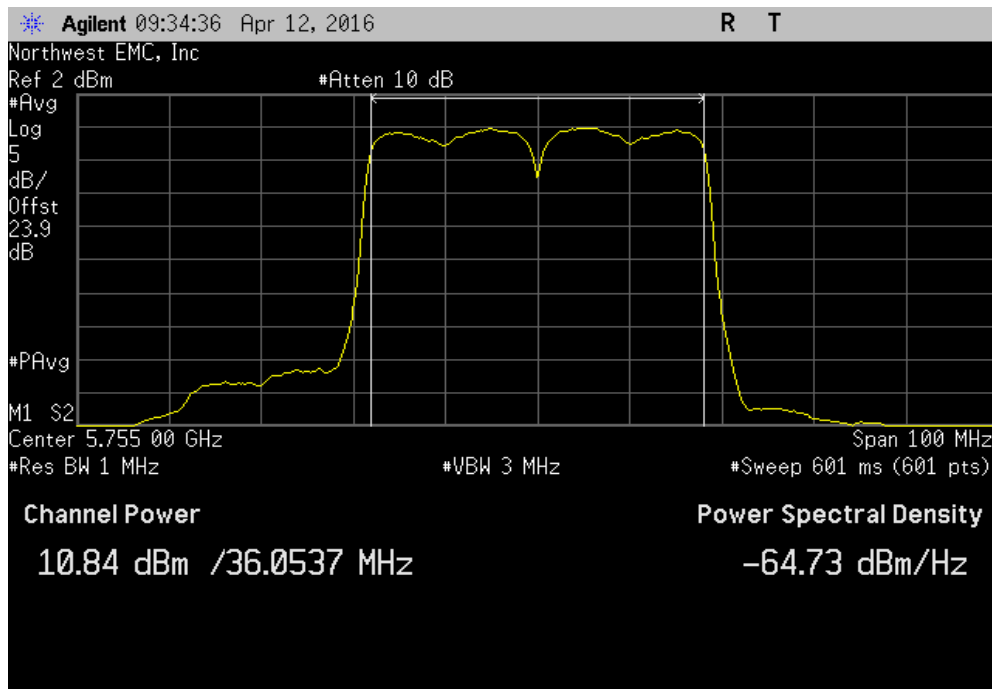


# MAXIMUM CONDUCTED OUTPUT POWER

| SISO, Chain B, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(ac) MCS0 |                        |             |             |         |  |  |
|------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                           | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 11.271                                                                       | 0.2                    | 11.4        | 30          | Pass    |  |  |

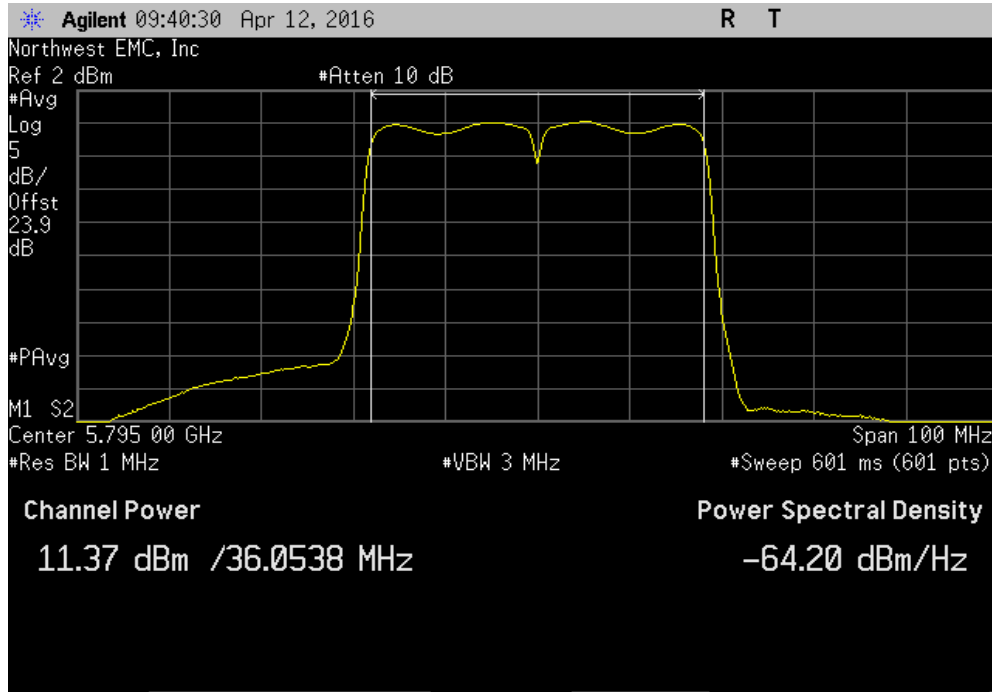


| SISO, Chain B, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(ac) MCS9 |                        |             |             |         |  |  |
|------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                           | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 10.838                                                                       | 1.6                    | 12.5        | 30          | Pass    |  |  |

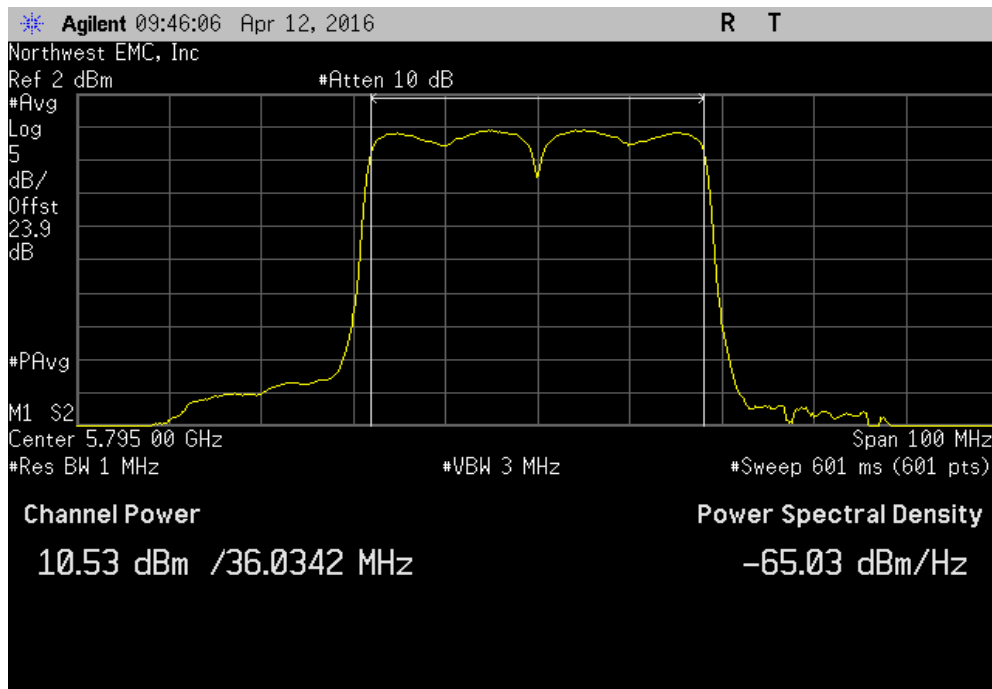


# MAXIMUM CONDUCTED OUTPUT POWER

| SISO, Chain B, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(n) MCS0 |                        |             |             |         |  |  |
|------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                           | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 11.372                                                                       | 0.2                    | 11.6        | 30          | Pass    |  |  |

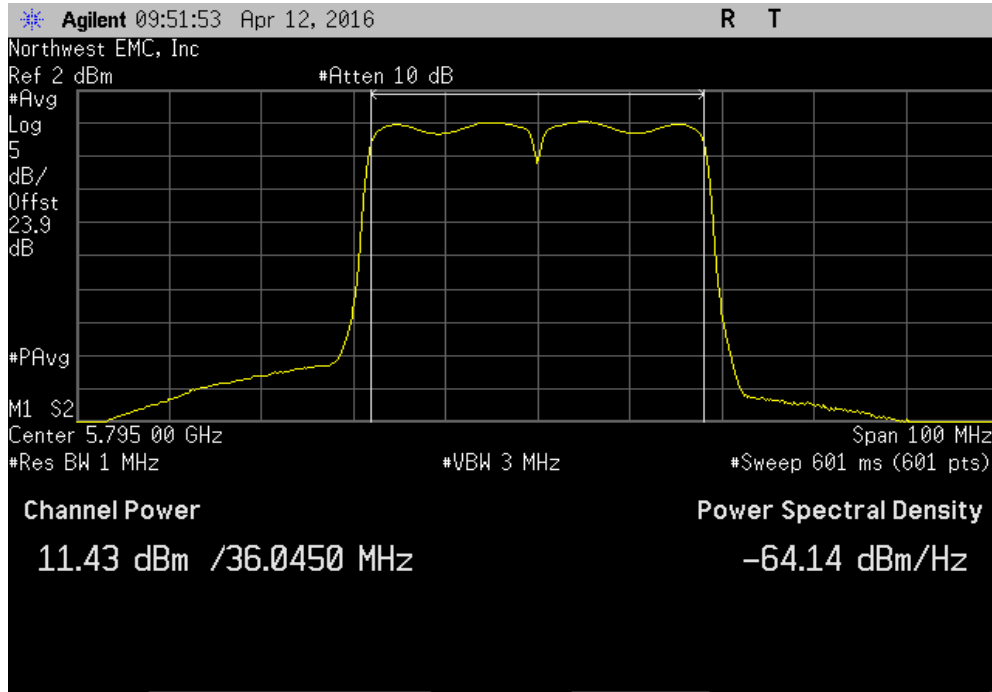


| SISO, Chain B, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(n) MCS7 |                        |             |             |         |  |  |
|------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                           | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 10.535                                                                       | 1.5                    | 12          | 30          | Pass    |  |  |

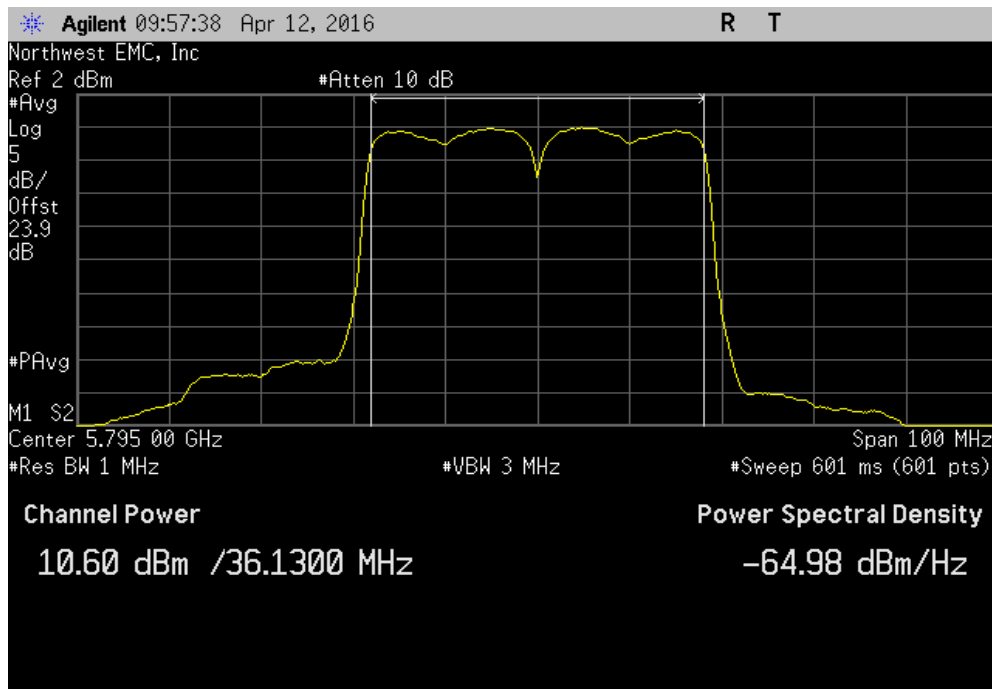


# MAXIMUM CONDUCTED OUTPUT POWER

| SISO, Chain B, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(ac) MCS0 |                        |             |             |         |  |  |
|-------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                            | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 11.426                                                                        | 0.2                    | 11.6        | 30          | Pass    |  |  |

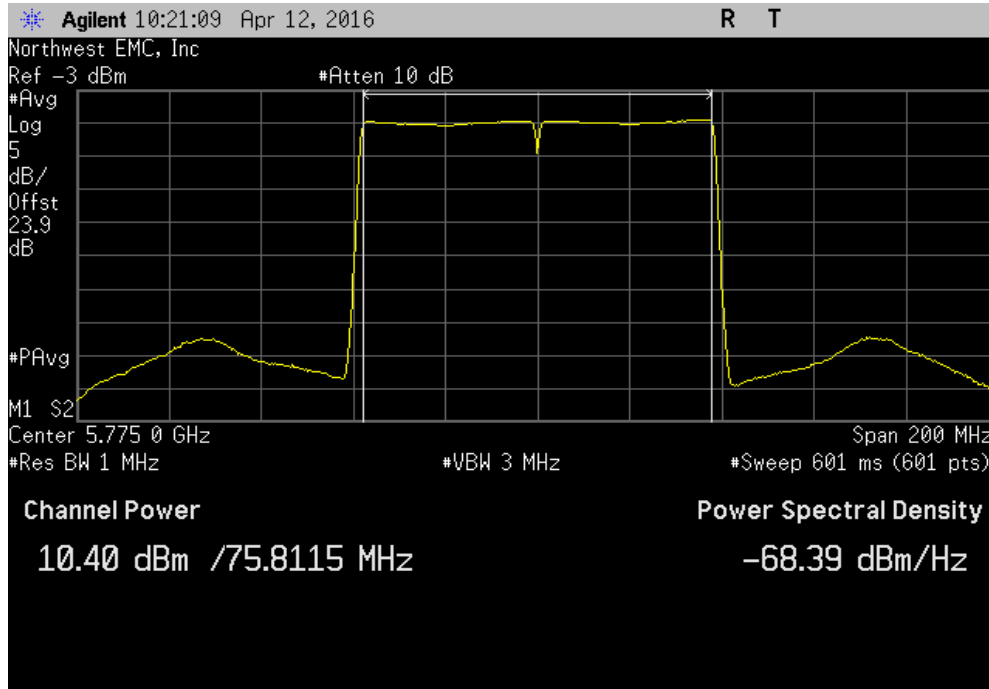


| SISO, Chain B, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(ac) MCS9 |                        |             |             |         |  |  |
|-------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                            | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 10.599                                                                        | 1.7                    | 12.3        | 30          | Pass    |  |  |

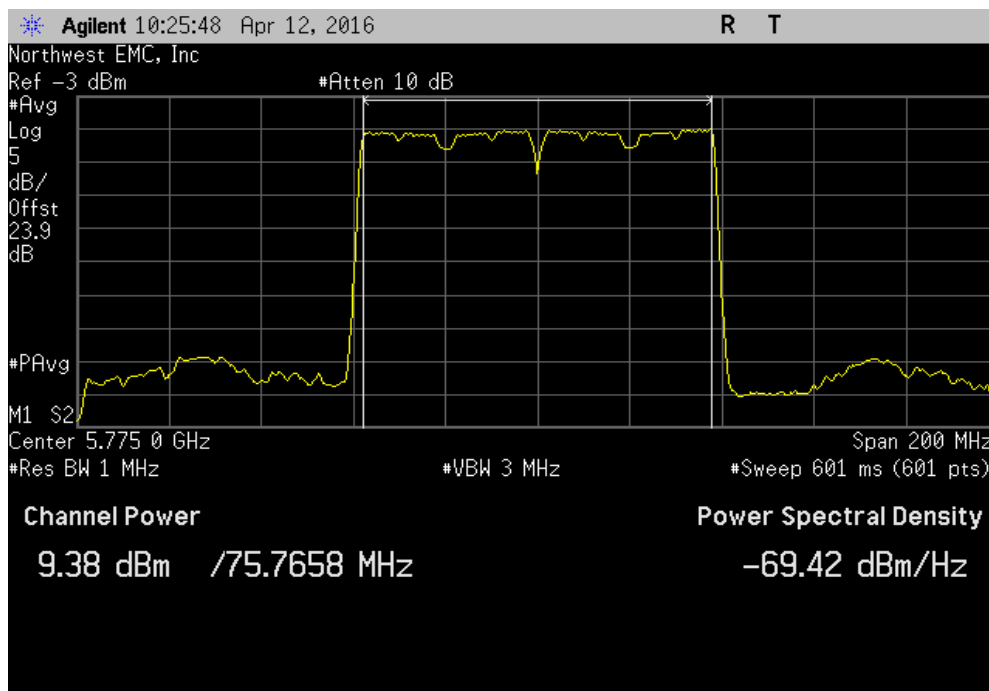


# MAXIMUM CONDUCTED OUTPUT POWER

| SISO, Chain B, 80MHz BW, Mid Channel, Ch 149/161 - 5775 MHz, 802.11(ac) MCS0 |                        |             |             |         |  |  |
|------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                           | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 10.405                                                                       | 0.2                    | 10.7        | 30          | Pass    |  |  |



| SISO, Chain B, 80MHz BW, Mid Channel, Ch 149/161 - 5775 MHz, 802.11(ac) MCS9 |                        |             |             |         |  |  |
|------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                           | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 9.377                                                                        | 1.9                    | 11.2        | 30          | Pass    |  |  |





# MAXIMUM CONDUCTED OUTPUT POWER

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

## TEST EQUIPMENT

| Description                  | Manufacturer       | Model            | ID  | Last Cal. | Interval (mo) |
|------------------------------|--------------------|------------------|-----|-----------|---------------|
| Analyzer - Spectrum Analyzer | Agilent            | E4440A           | AFE | 6/22/2015 | 12            |
| Attenuator                   | Fairview Microwave | SA4014-20        | TKV | 3/4/2016  | 12            |
| Cable                        | ESM Cable Corp.    | TTBJ-141 KMKM-72 | NC5 | 6/6/2015  | 12            |
| Block - DC                   | Fairview Microwave | SD3379           | AMJ | 6/6/2015  | 12            |
| Generator - Signal           | Agilent            | N5183A           | TIA | 4/6/2016  | 24            |

## TEST DESCRIPTION

The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum. The radio was operated in the modes as shown in the following data sheets.

A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer.

Prior to measuring maximum transmit power; the emission bandwidth (B) and the transmission pulse duration (T) were measured. The method of measuring the emission bandwidth and the associated data are found elsewhere in this test report. The transmission pulse duration (T) was measured using a zero span on the spectrum analyzer to see the pulses in the time domain.

The maximum conducted output power was measured using ANSI C63.10, Method SA-2 (RMS detection and trace averaging across the on and off times of the EUT transmission and use of a duty cycle correction factor).

The spectrum analyzer settings were set per the guidance as well as the following specifics:

-RMS Detector

-Trace average 100 traces in power averaging mode.

-Power was integrated across "B", by using the channel power function of the analyzer.

A duty cycle correction factor was added to the measurement using the results of the formula of  $10 \cdot \text{LOG}(1/D)$  where D is the duty cycle.

# MAXIMUM CONDUCTED OUTPUT POWER

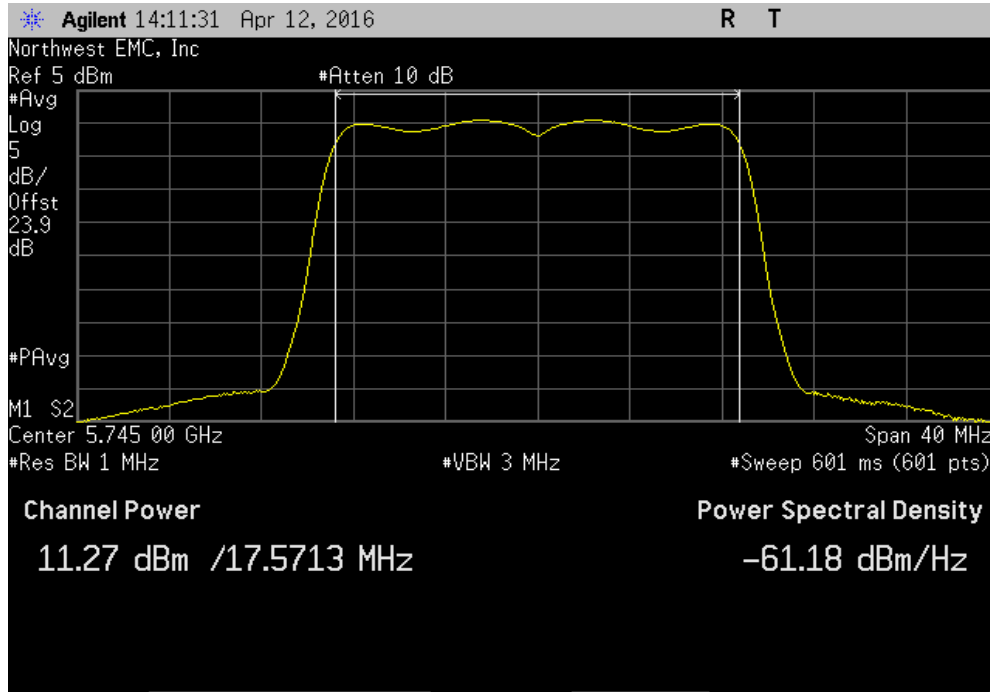


XM: 2015.01.14

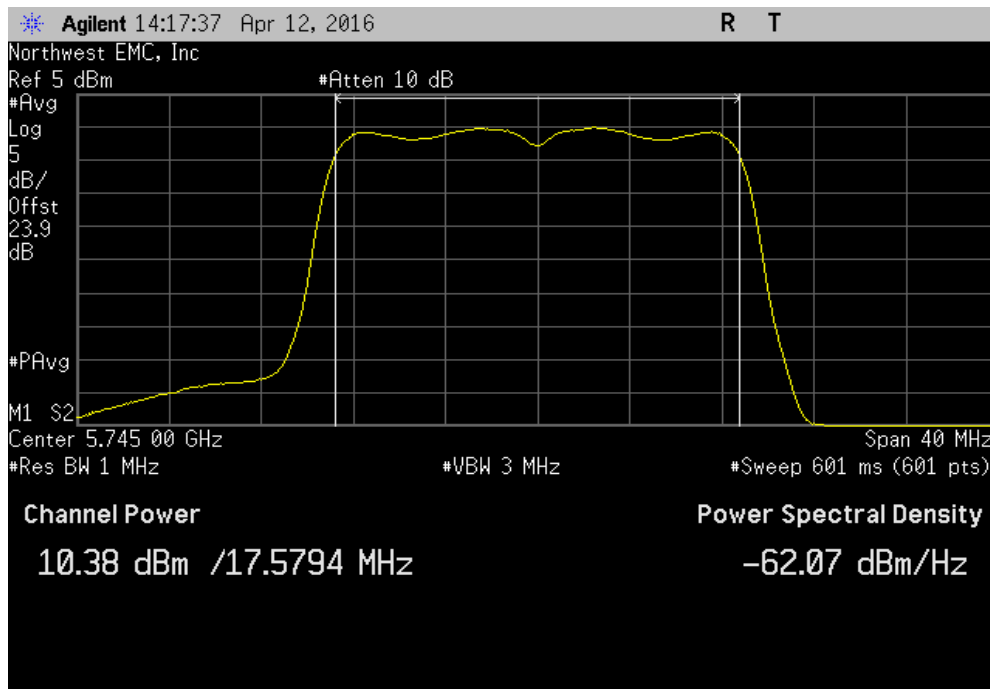
| EUT: Model 1631                                                                                                                                                                                                     |                 | Work Order: MCS01748        |                        |                   |                    |             |         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------|------------------------|-------------------|--------------------|-------------|---------|
| Serial Number: 041152140753                                                                                                                                                                                         |                 | Date: 04/13/16              |                        |                   |                    |             |         |
| Customer: Microsoft Corporation                                                                                                                                                                                     |                 | Temperature: 23°C           |                        |                   |                    |             |         |
| Attendees: None                                                                                                                                                                                                     |                 | Humidity: 33%               |                        |                   |                    |             |         |
| Project: None                                                                                                                                                                                                       |                 | Barometric Pres.: 1019 mbar |                        |                   |                    |             |         |
| Tested by: Richard Mellroth                                                                                                                                                                                         |                 | Power: 110VAC/60Hz          |                        |                   |                    |             |         |
| TEST SPECIFICATIONS                                                                                                                                                                                                 |                 | Test Method                 |                        |                   |                    |             |         |
| FCC 15.407.2016                                                                                                                                                                                                     |                 | ANSI C63.10:2013            |                        |                   |                    |             |         |
| <b>COMMENTS</b>                                                                                                                                                                                                     |                 |                             |                        |                   |                    |             |         |
| Power setting at 11dBm for 20MHz and 40MHz channels. Power Setting at 10dBm for 80MHz channels. Client supplied adapter cable loss of 1.3dB included in reference level offset. Signal setting at > 95% Duty Cycle. |                 |                             |                        |                   |                    |             |         |
| <b>DEVIATIONS FROM TEST STANDARD</b>                                                                                                                                                                                |                 |                             |                        |                   |                    |             |         |
| None                                                                                                                                                                                                                |                 |                             |                        |                   |                    |             |         |
| Configuration #                                                                                                                                                                                                     | 1               | Signature <i>R Mellroth</i> |                        |                   |                    |             |         |
|                                                                                                                                                                                                                     |                 | Avg Cond Pwr (dBm)          | Duty Cycle Factor (dB) | Value (dBm)       | Limit (dBm)        | Results     |         |
| <b>2x2 MIMO, Chain A</b>                                                                                                                                                                                            |                 |                             |                        |                   |                    |             |         |
| 20MHz BW                                                                                                                                                                                                            |                 |                             |                        |                   |                    |             |         |
| Low Channel, Ch 149 - 5745 MHz                                                                                                                                                                                      |                 |                             |                        |                   |                    |             |         |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | 11.267                      | 0.1                    | 11.4              | 30                 | Pass        |         |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | 10.384                      | 0.7                    | 11.1              | 30                 | Pass        |         |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 11.192                      | 0.1                    | 11.3              | 30                 | Pass        |         |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8 | 10.452                      | 0.7                    | 11.1              | 30                 | Pass        |         |
| Mid Channel, Ch 157 - 5785 MHz                                                                                                                                                                                      |                 |                             |                        |                   |                    |             |         |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | 11.328                      | 0.1                    | 11.4              | 30                 | Pass        |         |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | 10.56                       | 0.7                    | 11.3              | 30                 | Pass        |         |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 11.467                      | 0.1                    | 11.5              | 30                 | Pass        |         |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8 | 10.547                      | 0.7                    | 11.2              | 30                 | Pass        |         |
| High Channel, Ch 165 - 5825 MHz                                                                                                                                                                                     |                 |                             |                        |                   |                    |             |         |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | 11.324                      | 0.1                    | 11.4              | 30                 | Pass        |         |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | 10.67                       | 0.7                    | 11.4              | 30                 | Pass        |         |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 11.264                      | 0.1                    | 11.3              | 30                 | Pass        |         |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8 | 10.838                      | 0.7                    | 11.5              | 30                 | Pass        |         |
| 40MHz BW                                                                                                                                                                                                            |                 |                             |                        |                   |                    |             |         |
| Low Channel, Ch 149/153 - 5755 MHz                                                                                                                                                                                  |                 |                             |                        |                   |                    |             |         |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | 10.751                      | 0.2                    | 10.9              | 30                 | Pass        |         |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | 9.567                       | 1.5                    | 11.1              | 30                 | Pass        |         |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 10.861                      | 0.3                    | 11.2              | 30                 | Pass        |         |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9 | 9.708                       | 1.2                    | 10.9              | 30                 | Pass        |         |
| High Channel, Ch 157/161 - 5795 MHz                                                                                                                                                                                 |                 |                             |                        |                   |                    |             |         |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | 10.779                      | 0.3                    | 11.1              | 30                 | Pass        |         |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | 9.708                       | 1.5                    | 11.3              | 30                 | Pass        |         |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 10.829                      | 0.3                    | 11.1              | 30                 | Pass        |         |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9 | 10.08                       | 2.5                    | 12.6              | 30                 | Pass        |         |
| 80MHz BW                                                                                                                                                                                                            |                 |                             |                        |                   |                    |             |         |
| Mid Channel, Ch 149/161 - 5775 MHz                                                                                                                                                                                  |                 |                             |                        |                   |                    |             |         |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 8.62                        | 0.6                    | 9.2               | 30                 | Pass        |         |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9 | 7.741                       | 2.8                    | 10.6              | 30                 | Pass        |         |
| <b>2x2 MIMO, Chain B</b>                                                                                                                                                                                            |                 |                             |                        |                   |                    |             |         |
| 20MHz BW                                                                                                                                                                                                            |                 |                             |                        |                   |                    |             |         |
| Low Channel, Ch 149 - 5745 MHz                                                                                                                                                                                      |                 |                             |                        |                   |                    |             |         |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | 10.939                      | 0.1                    | 11                | 30                 | Pass        |         |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | 10.485                      | 0.8                    | 11.2              | 30                 | Pass        |         |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 10.692                      | 0.1                    | 10.8              | 30                 | Pass        |         |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8 | 10.467                      | 0.7                    | 11.2              | 30                 | Pass        |         |
| Mid Channel, Ch 157 - 5785 MHz                                                                                                                                                                                      |                 |                             |                        |                   |                    |             |         |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | 10.984                      | 0.1                    | 11.1              | 30                 | Pass        |         |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | 10.559                      | 0.8                    | 11.3              | 30                 | Pass        |         |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 11.144                      | 0.1                    | 11.2              | 30                 | Pass        |         |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8 | 10.576                      | 0.7                    | 11.3              | 30                 | Pass        |         |
| High Channel, Ch 165 - 5825 MHz                                                                                                                                                                                     |                 |                             |                        |                   |                    |             |         |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | 11.077                      | 0.1                    | 11.2              | 30                 | Pass        |         |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | 10.636                      | 0.8                    | 11.4              | 30                 | Pass        |         |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 11.133                      | 0.1                    | 11.2              | 30                 | Pass        |         |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8 | 10.608                      | 0.7                    | 11.3              | 30                 | Pass        |         |
| 40MHz BW                                                                                                                                                                                                            |                 |                             |                        |                   |                    |             |         |
| Low Channel, Ch 149/153 - 5755 MHz                                                                                                                                                                                  |                 |                             |                        |                   |                    |             |         |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | 10.541                      | 0.3                    | 10.9              | 30                 | Pass        |         |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | 9.704                       | 2.4                    | 12.1              | 30                 | Pass        |         |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 10.668                      | 0.3                    | 11                | 30                 | Pass        |         |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9 | 9.817                       | 1.1                    | 10.9              | 30                 | Pass        |         |
| High Channel, Ch 157/161 - 5795 MHz                                                                                                                                                                                 |                 |                             |                        |                   |                    |             |         |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | 10.667                      | 0.3                    | 11                | 30                 | Pass        |         |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | 9.754                       | 2.4                    | 12.1              | 30                 | Pass        |         |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 10.743                      | 0.3                    | 11.1              | 30                 | Pass        |         |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9 | 9.978                       | 2.5                    | 12.5              | 30                 | Pass        |         |
| 80MHz BW                                                                                                                                                                                                            |                 |                             |                        |                   |                    |             |         |
| Mid Channel, Ch 149/161 - 5775 MHz                                                                                                                                                                                  |                 |                             |                        |                   |                    |             |         |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 8.796                       | 0.6                    | 9.4               | 30                 | Pass        |         |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9 | 8.132                       | 1.5                    | 9.7               | 30                 | Pass        |         |
| <b>2x2 MIMO, Power Summing Table</b>                                                                                                                                                                                |                 |                             |                        |                   |                    |             |         |
| 20MHz BW                                                                                                                                                                                                            |                 |                             |                        |                   |                    |             |         |
|                                                                                                                                                                                                                     |                 | Chain A Value (mW)          | Chain B Value (mW)     | Summed Value (mW) | Summed Value (dBm) | Limit (dBm) | Results |
| Low Channel, Ch 149 - 5745 MHz                                                                                                                                                                                      |                 |                             |                        |                   |                    |             |         |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | 13.8                        | 12.6                   | 26.4              | 14.2               | 30          | Pass    |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | 12.9                        | 13.2                   | 26.1              | 14.2               | 30          | Pass    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 13.5                        | 12.0                   | 25.5              | 14.1               | 30          | Pass    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8 | 12.9                        | 13.2                   | 26.1              | 14.2               | 30          | Pass    |
| Mid Channel, Ch 157 - 5785 MHz                                                                                                                                                                                      |                 |                             |                        |                   |                    |             |         |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | 13.8                        | 12.9                   | 26.7              | 14.3               | 30          | Pass    |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | 13.5                        | 13.5                   | 27.0              | 14.3               | 30          | Pass    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 14.1                        | 13.2                   | 27.3              | 14.4               | 30          | Pass    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8 | 13.2                        | 13.5                   | 26.7              | 14.3               | 30          | Pass    |
| High Channel, Ch 165 - 5825 MHz                                                                                                                                                                                     |                 |                             |                        |                   |                    |             |         |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | 13.8                        | 13.2                   | 27.0              | 14.3               | 30          | Pass    |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | 13.8                        | 13.8                   | 27.6              | 14.4               | 30          | Pass    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 13.5                        | 13.2                   | 26.7              | 14.3               | 30          | Pass    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8 | 14.1                        | 13.5                   | 27.6              | 14.4               | 30          | Pass    |
| 40MHz BW                                                                                                                                                                                                            |                 |                             |                        |                   |                    |             |         |
| Low Channel, Ch 149/153 - 5755 MHz                                                                                                                                                                                  |                 |                             |                        |                   |                    |             |         |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | 12.3                        | 12.3                   | 24.6              | 13.9               | 30          | Pass    |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | 12.9                        | 16.2                   | 29.1              | 14.6               | 30          | Pass    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 13.2                        | 12.6                   | 25.8              | 14.1               | 30          | Pass    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9 | 12.3                        | 12.3                   | 24.6              | 13.9               | 30          | Pass    |
| High Channel, Ch 157/161 - 5795 MHz                                                                                                                                                                                 |                 |                             |                        |                   |                    |             |         |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | 12.9                        | 12.6                   | 25.5              | 14.1               | 30          | Pass    |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | 13.5                        | 16.2                   | 29.7              | 14.7               | 30          | Pass    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 12.9                        | 12.9                   | 25.8              | 14.1               | 30          | Pass    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9 | 18.2                        | 17.8                   | 36.0              | 15.6               | 30          | Pass    |
| 80MHz BW                                                                                                                                                                                                            |                 |                             |                        |                   |                    |             |         |
| Mid Channel, Ch 149/161 - 5775 MHz                                                                                                                                                                                  |                 |                             |                        |                   |                    |             |         |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 8.3                         | 8.7                    | 17.0              | 12.3               | 30          | Pass    |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9 | 11.5                        | 9.3                    | 20.8              | 13.2               | 30          | Pass    |

# MAXIMUM CONDUCTED OUTPUT POWER

| 2x2 MIMO, Chain A, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(n) MCS8 |                        |             |             |         |  |
|-----------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|
| Avg Cond Pwr (dBm)                                                          | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |
| 11.267                                                                      | 0.1                    | 11.4        | 30          | Pass    |  |

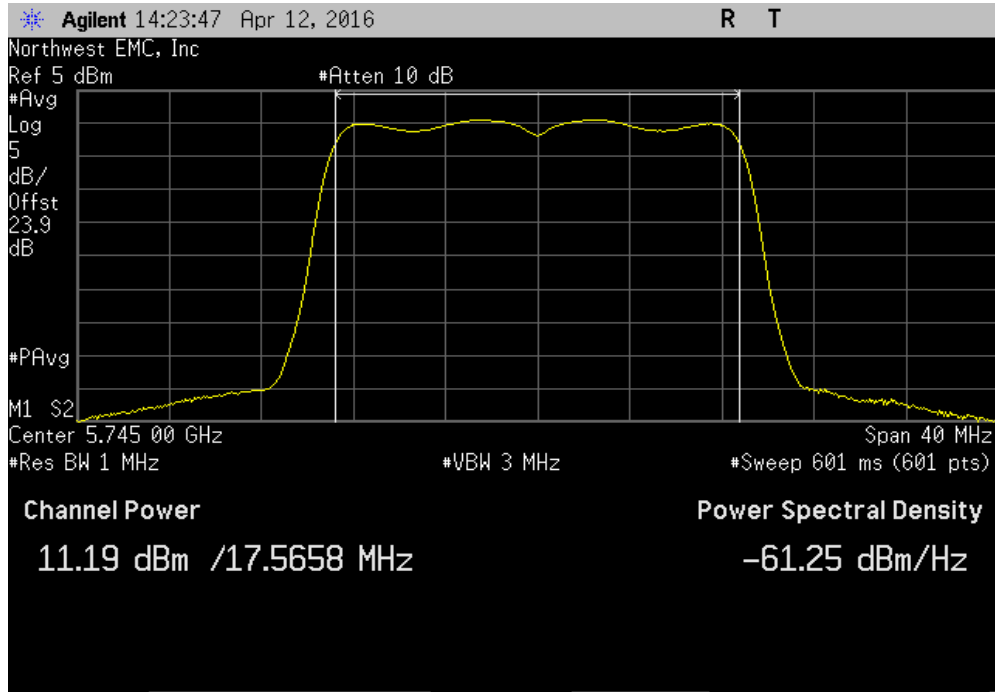


| 2x2 MIMO, Chain A, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(n) MCS15 |                        |             |             |         |  |
|------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|
| Avg Cond Pwr (dBm)                                                           | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |
| 10.384                                                                       | 0.7                    | 11.1        | 30          | Pass    |  |

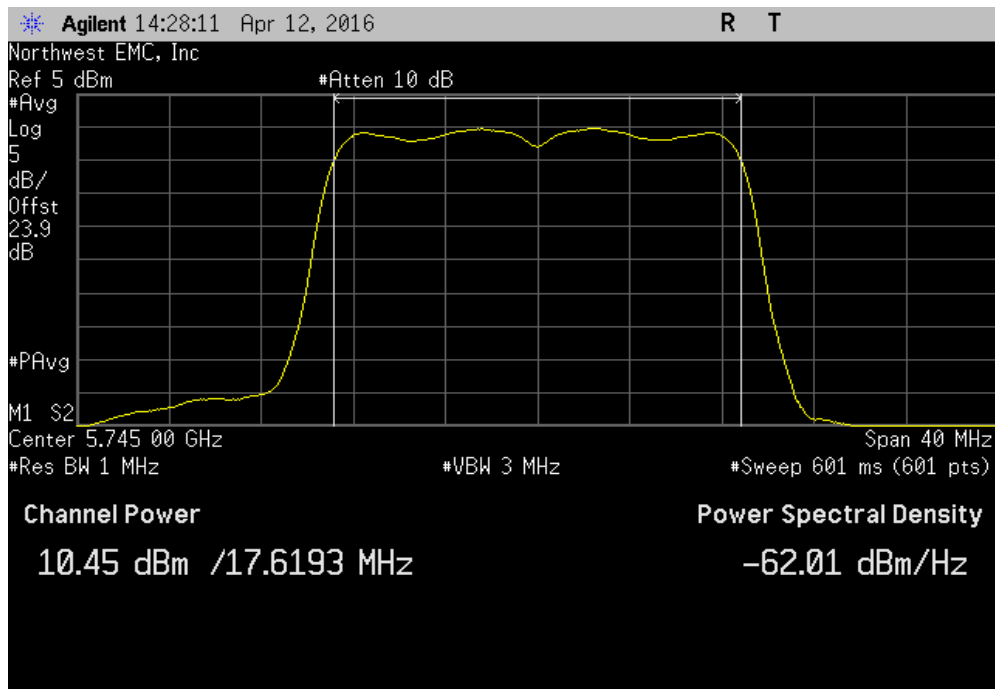


# MAXIMUM CONDUCTED OUTPUT POWER

| 2x2 MIMO, Chain A, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(ac) MCS0 |                        |             |             |         |  |  |
|------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                           | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 11.192                                                                       | 0.1                    | 11.3        | 30          | Pass    |  |  |

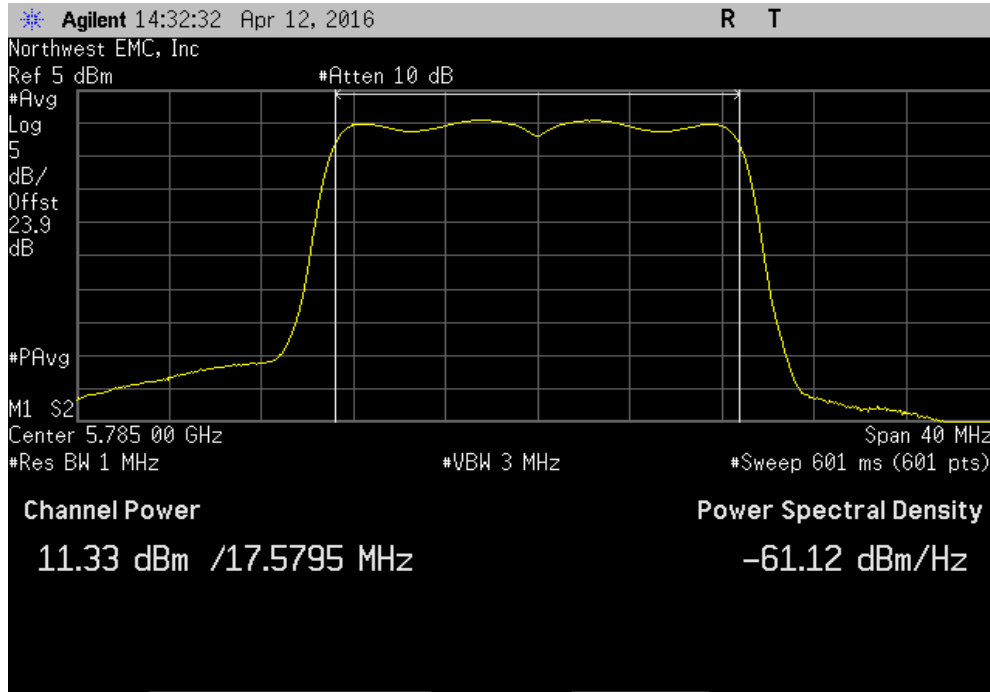


| 2x2 MIMO, Chain A, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(ac) MCS8 |                        |             |             |         |  |  |
|------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                           | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 10.452                                                                       | 0.7                    | 11.1        | 30          | Pass    |  |  |

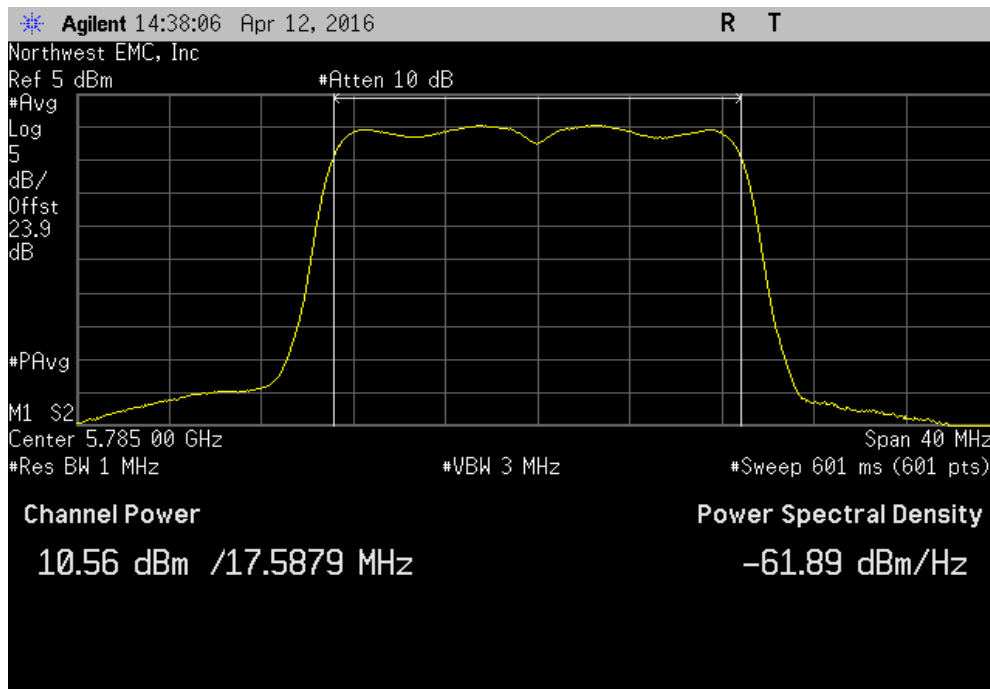


# MAXIMUM CONDUCTED OUTPUT POWER

| 2x2 MIMO, Chain A, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(n) MCS8 |                        |             |             |         |  |
|-----------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|
| Avg Cond Pwr (dBm)                                                          | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |
| 11.328                                                                      | 0.1                    | 11.4        | 30          | Pass    |  |

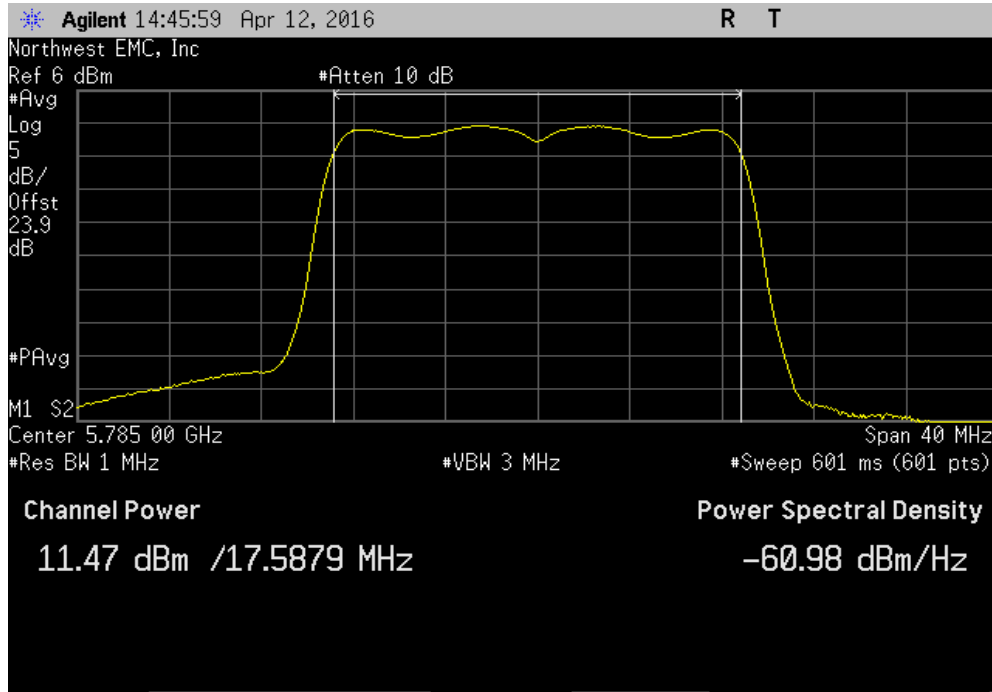


| 2x2 MIMO, Chain A, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(n) MCS15 |                        |             |             |         |  |
|------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|
| Avg Cond Pwr (dBm)                                                           | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |
| 10.56                                                                        | 0.7                    | 11.3        | 30          | Pass    |  |

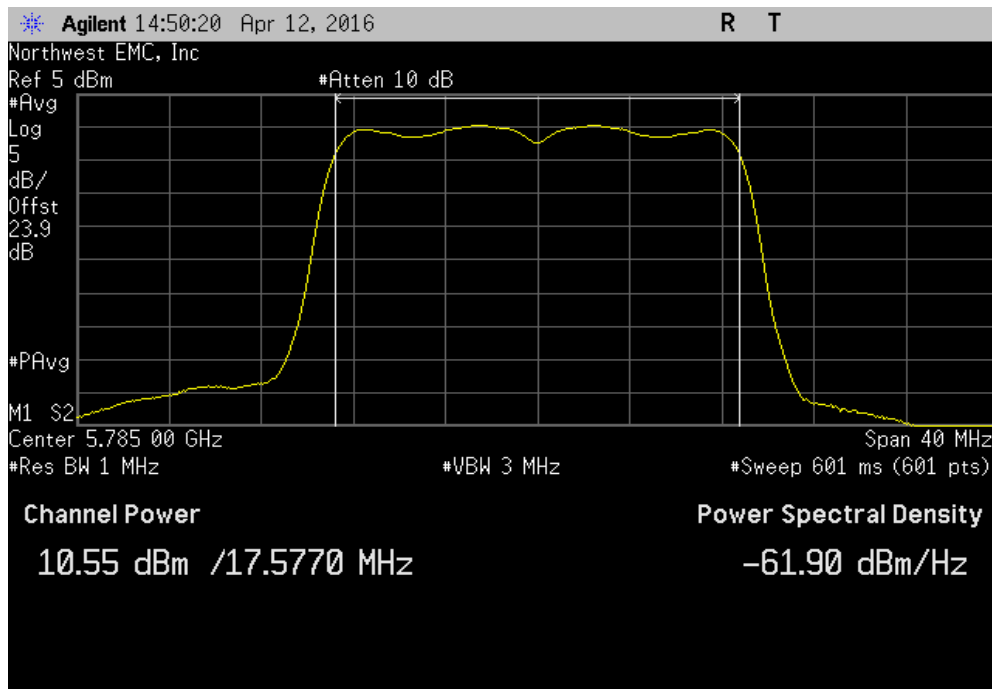


# MAXIMUM CONDUCTED OUTPUT POWER

| 2x2 MIMO, Chain A, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(ac) MCS0 |                        |             |             |         |  |
|------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|
| Avg Cond Pwr (dBm)                                                           | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |
| 11.467                                                                       | 0.1                    | 11.5        | 30          | Pass    |  |

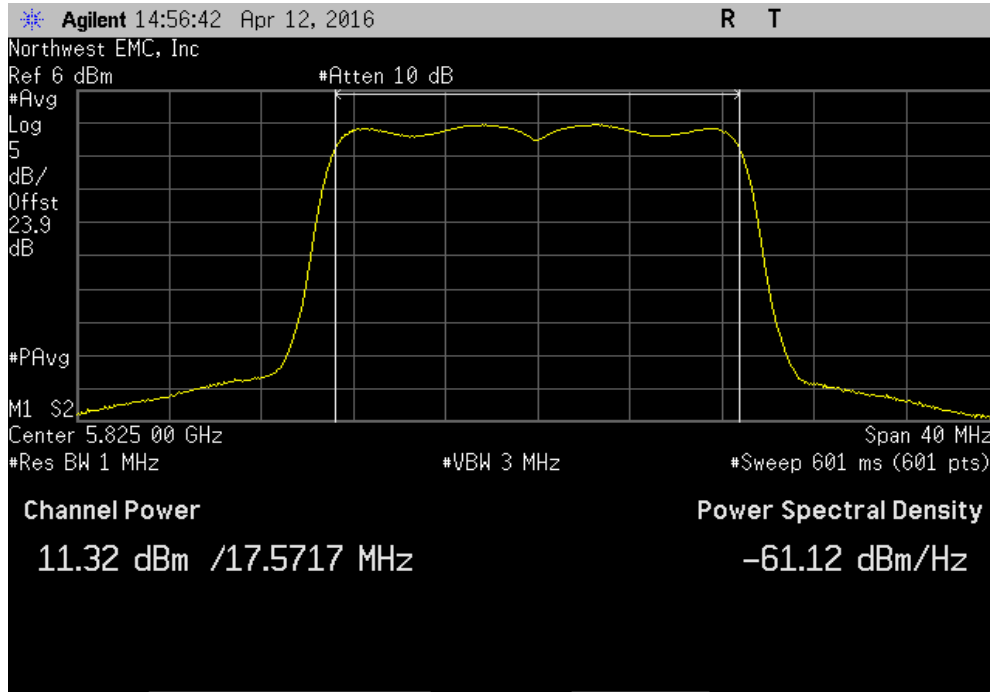


| 2x2 MIMO, Chain A, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(ac) MCS8 |                        |             |             |         |  |
|------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|
| Avg Cond Pwr (dBm)                                                           | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |
| 10.547                                                                       | 0.7                    | 11.2        | 30          | Pass    |  |

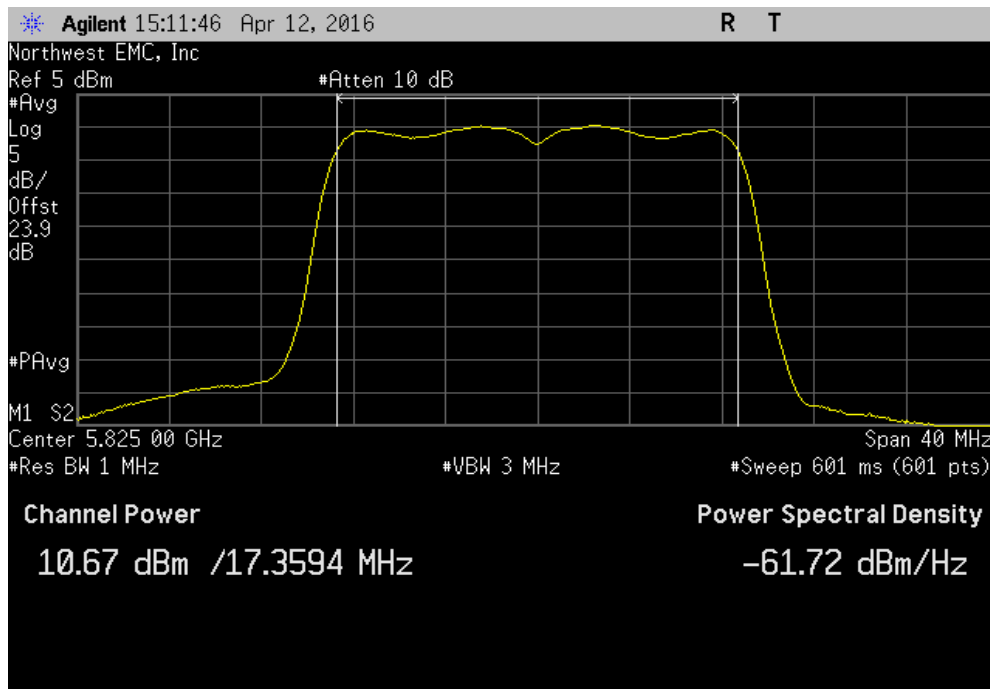


# MAXIMUM CONDUCTED OUTPUT POWER

| 2x2 MIMO, Chain A, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(n) MCS8 |                        |             |             |         |  |
|------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|
| Avg Cond Pwr (dBm)                                                           | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |
| 11.324                                                                       | 0.1                    | 11.4        | 30          | Pass    |  |

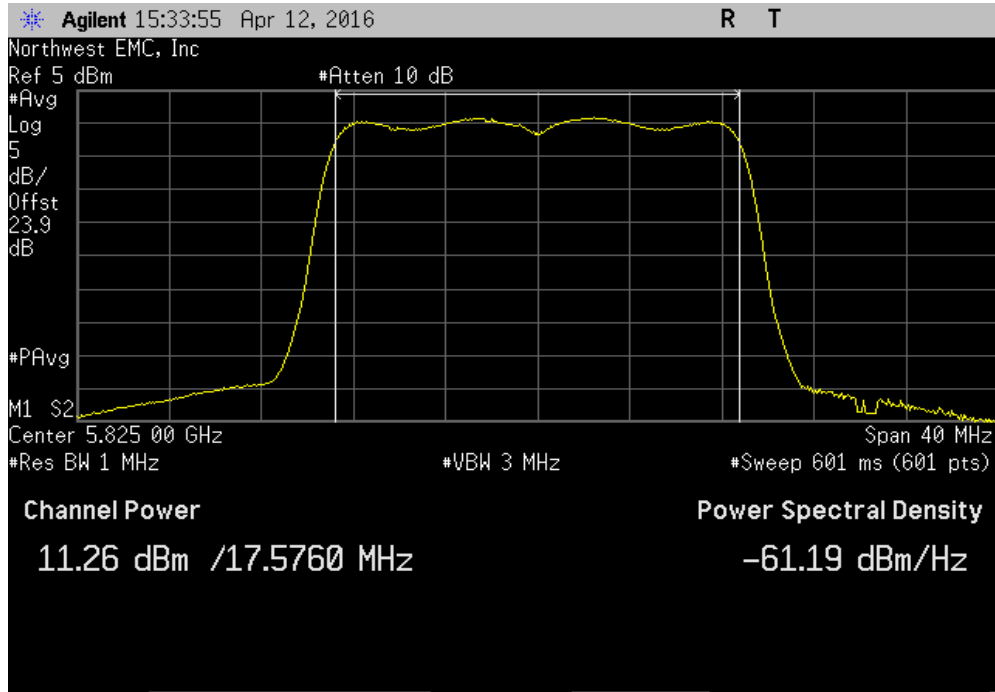


| 2x2 MIMO, Chain A, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(n) MCS15 |                        |             |             |         |  |
|-------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|
| Avg Cond Pwr (dBm)                                                            | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |
| 10.67                                                                         | 0.7                    | 11.4        | 30          | Pass    |  |

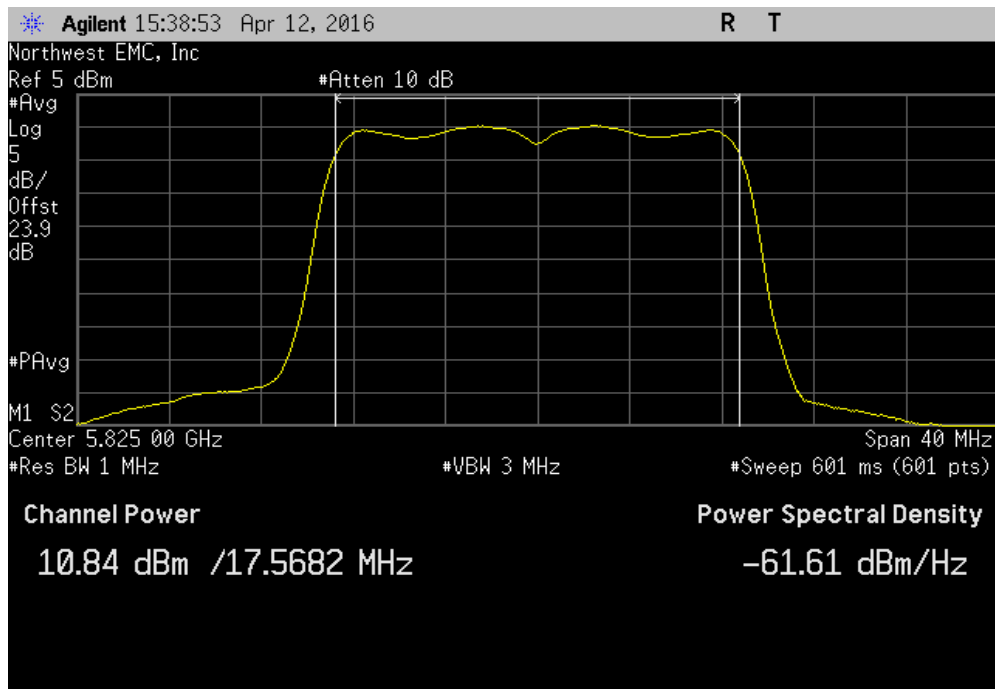


# MAXIMUM CONDUCTED OUTPUT POWER

| 2x2 MIMO, Chain A, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(ac) MCS0 |                        |             |             |         |  |  |
|-------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                            | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 11.264                                                                        | 0.1                    | 11.3        | 30          | Pass    |  |  |



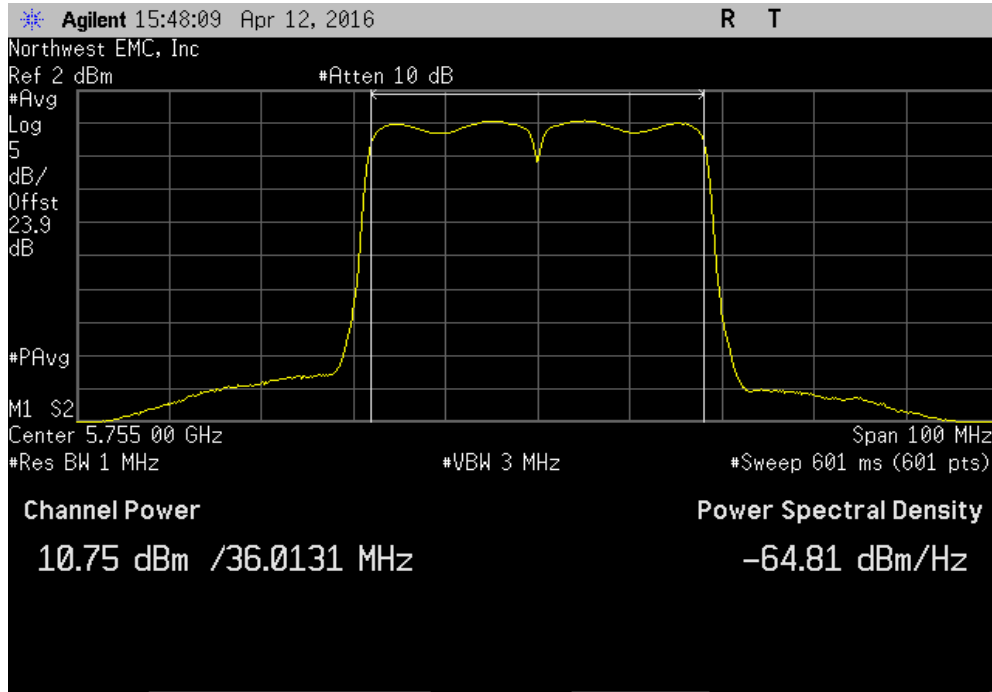
| 2x2 MIMO, Chain A, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(ac) MCS8 |                        |             |             |         |  |  |
|-------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                            | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 10.838                                                                        | 0.7                    | 11.5        | 30          | Pass    |  |  |



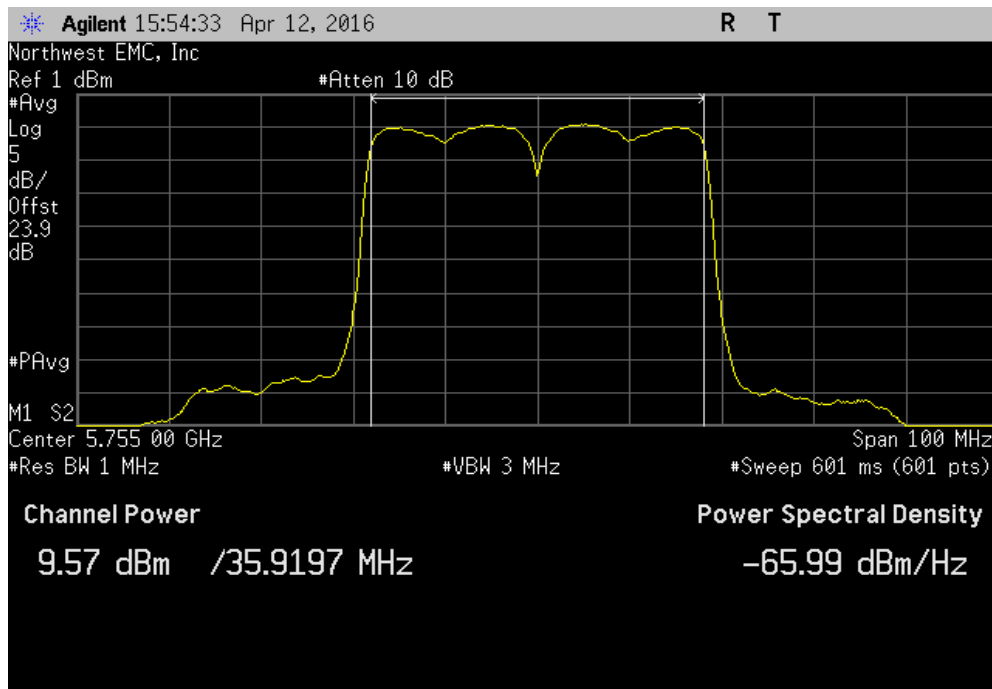


# MAXIMUM CONDUCTED OUTPUT POWER

| 2x2 MIMO, Chain A, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(n) MCS8 |                        |             |             |         |  |
|---------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|
| Avg Cond Pwr (dBm)                                                              | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |
| 10.751                                                                          | 0.2                    | 10.9        | 30          | Pass    |  |

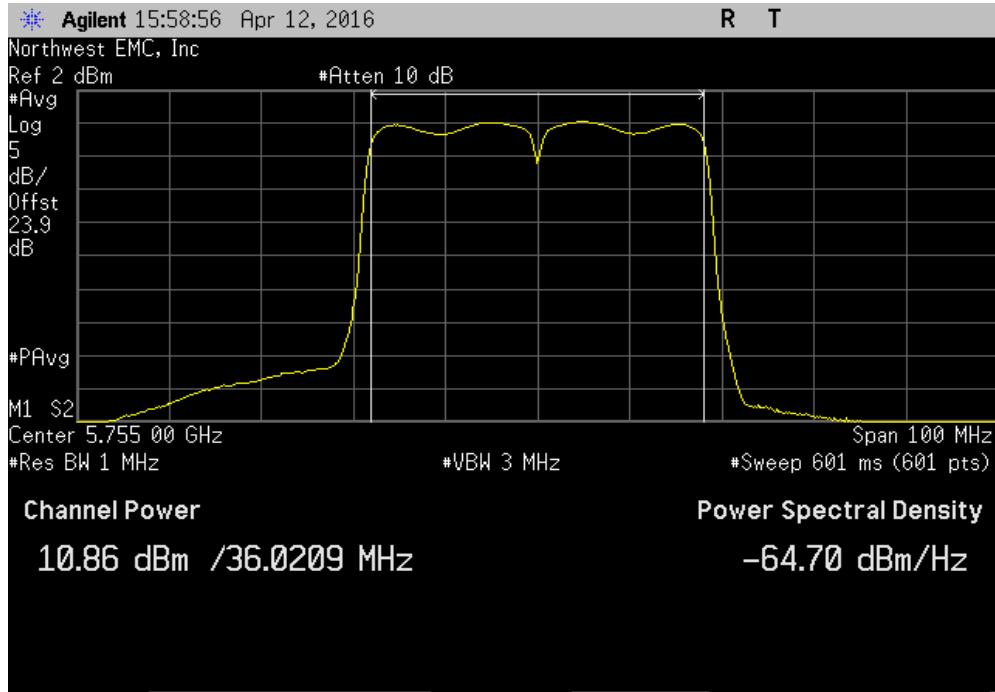


| 2x2 MIMO, Chain A, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(n) MCS15 |                        |             |             |         |  |
|----------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|
| Avg Cond Pwr (dBm)                                                               | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |
| 9.567                                                                            | 1.5                    | 11.1        | 30          | Pass    |  |

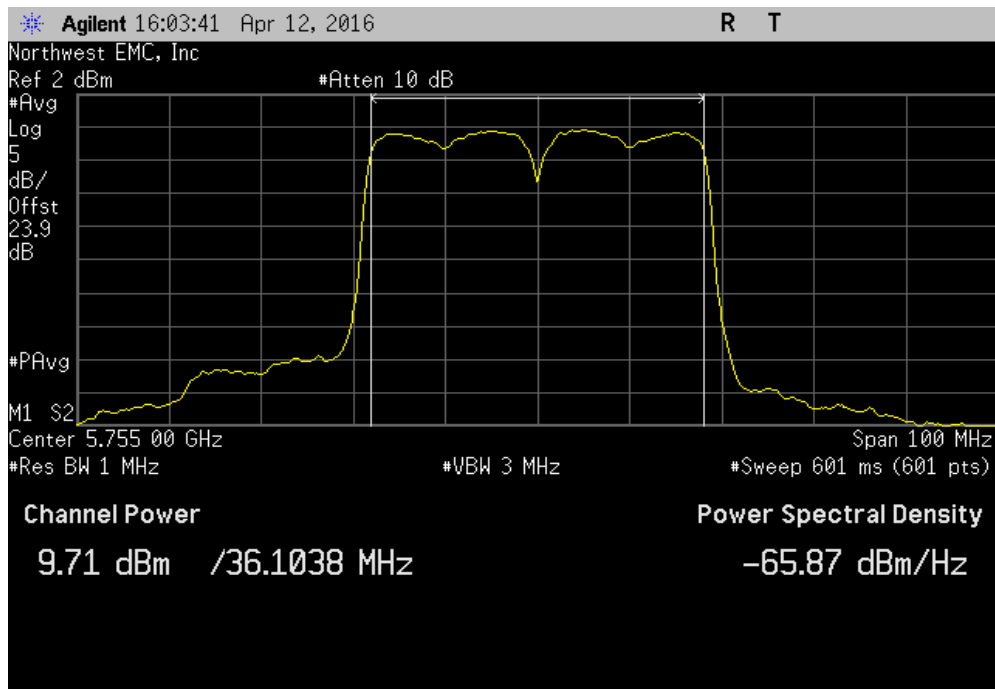


# MAXIMUM CONDUCTED OUTPUT POWER

| 2x2 MIMO, Chain A, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(ac) MCS0 |                        |             |             |         |  |  |
|----------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                               | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 10.861                                                                           | 0.3                    | 11.2        | 30          | Pass    |  |  |

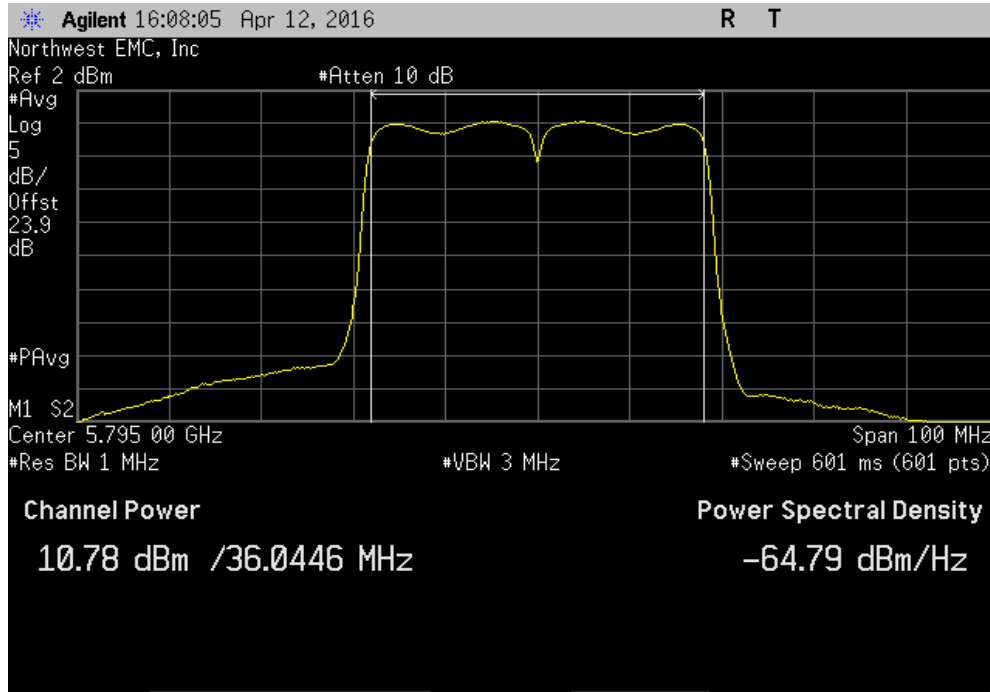


| 2x2 MIMO, Chain A, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(ac) MCS9 |                        |             |             |         |  |  |
|----------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                               | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 9.708                                                                            | 1.2                    | 10.9        | 30          | Pass    |  |  |

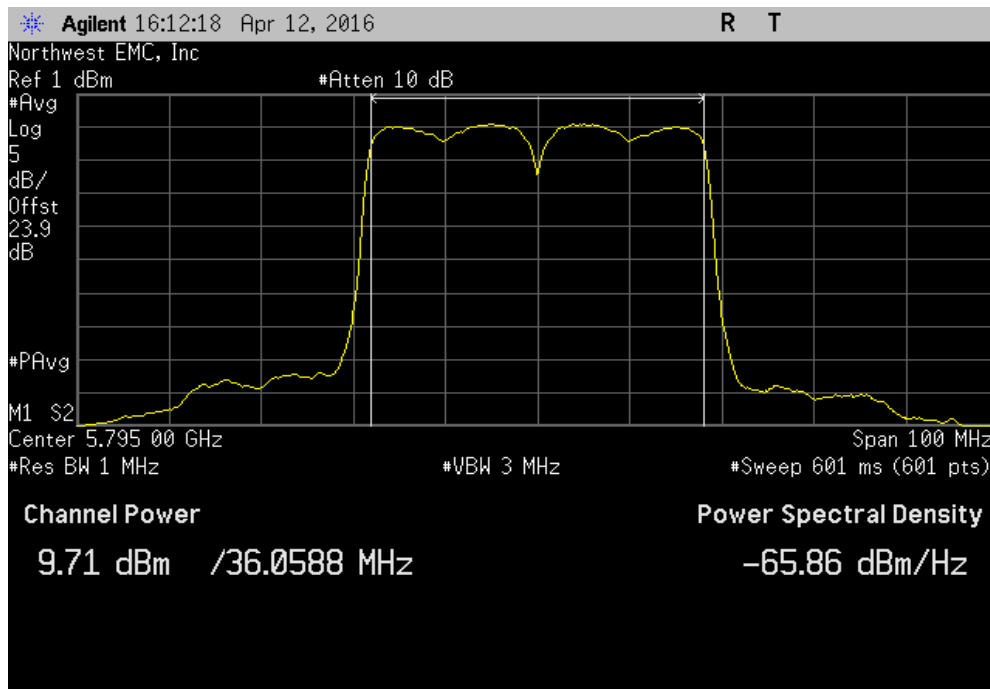


# MAXIMUM CONDUCTED OUTPUT POWER

| 2x2 MIMO, Chain A, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(n) MCS8 |                        |             |             |         |  |  |
|----------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                               | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 10.779                                                                           | 0.3                    | 11.1        | 30          | Pass    |  |  |

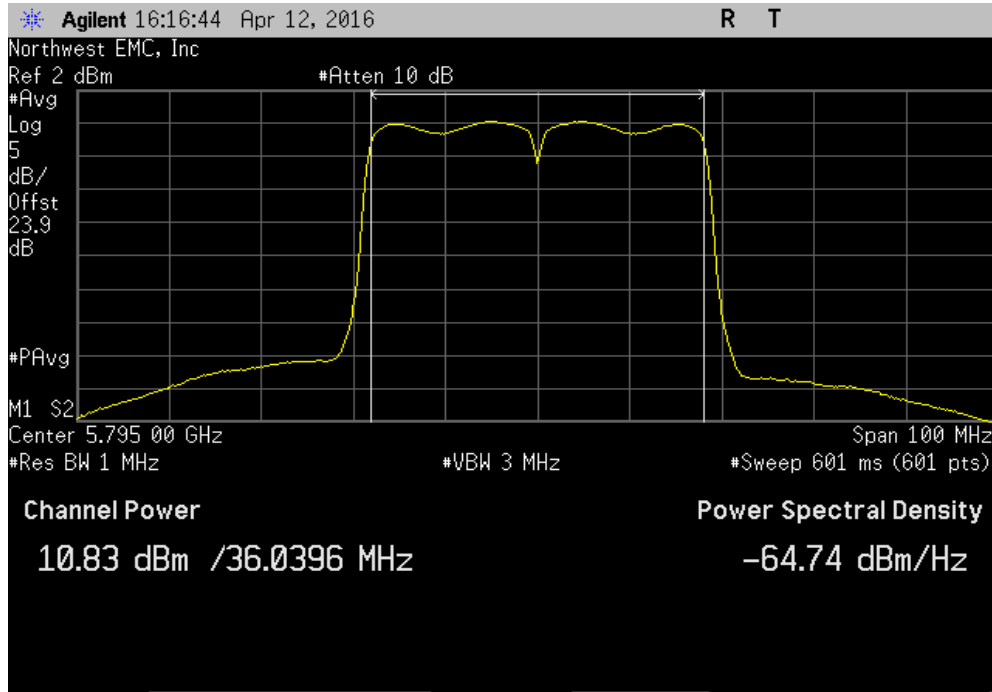


| 2x2 MIMO, Chain A, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(n) MCS15 |                        |             |             |         |  |  |
|-----------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                                | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 9.708                                                                             | 1.5                    | 11.3        | 30          | Pass    |  |  |

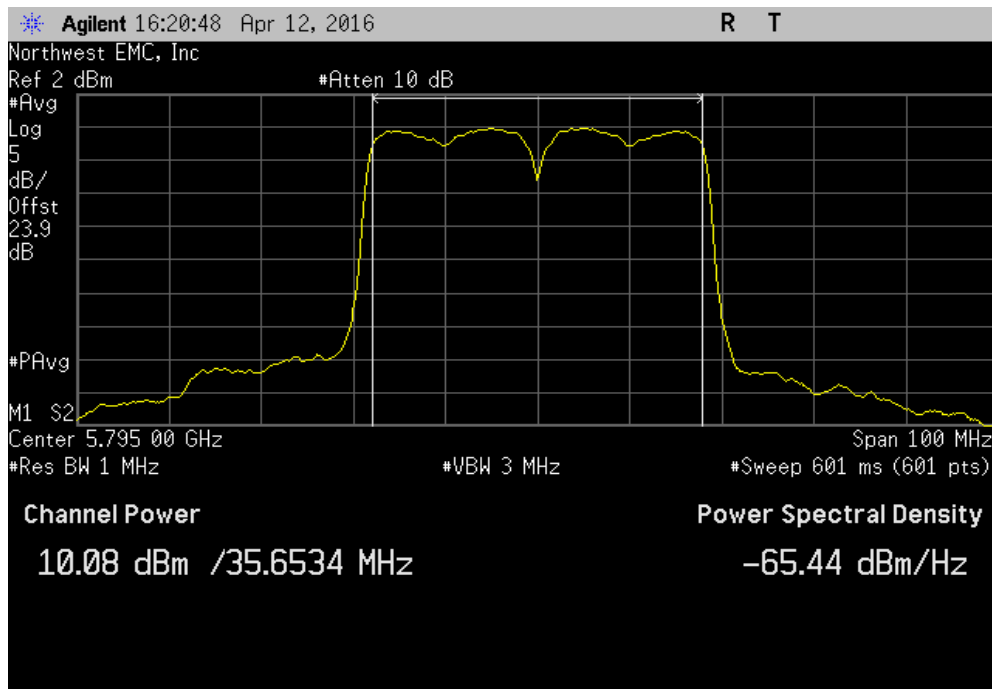


# MAXIMUM CONDUCTED OUTPUT POWER

| 2x2 MIMO, Chain A, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(ac) MCS0 |                        |             |             |         |  |  |
|-----------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                                | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 10.829                                                                            | 0.3                    | 11.1        | 30          | Pass    |  |  |

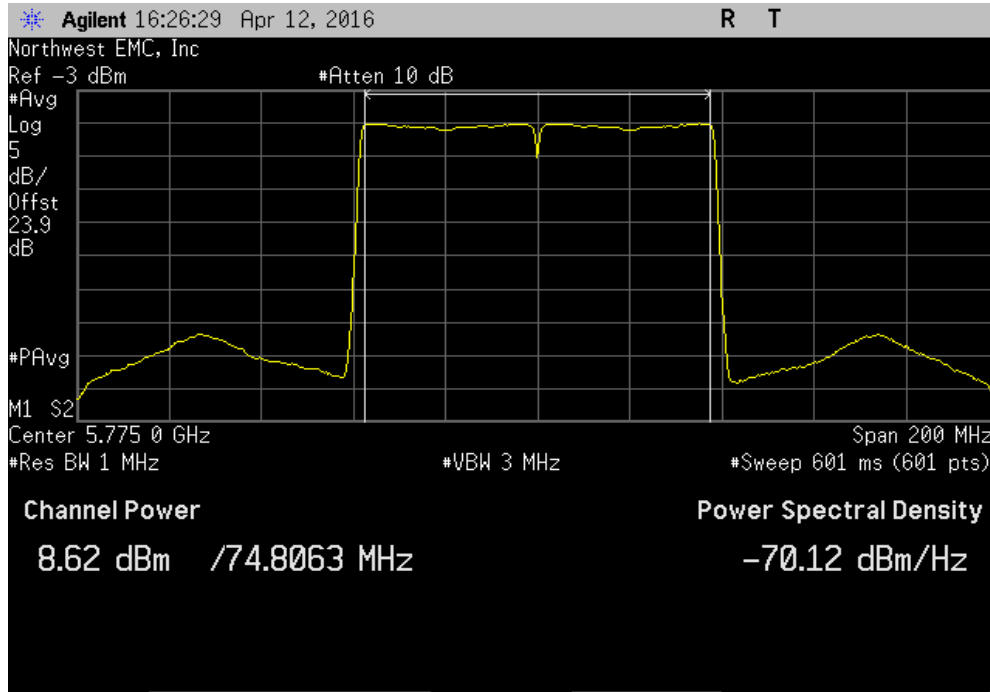


| 2x2 MIMO, Chain A, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(ac) MCS9 |                        |             |             |         |  |  |
|-----------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                                | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 10.08                                                                             | 2.5                    | 12.6        | 30          | Pass    |  |  |

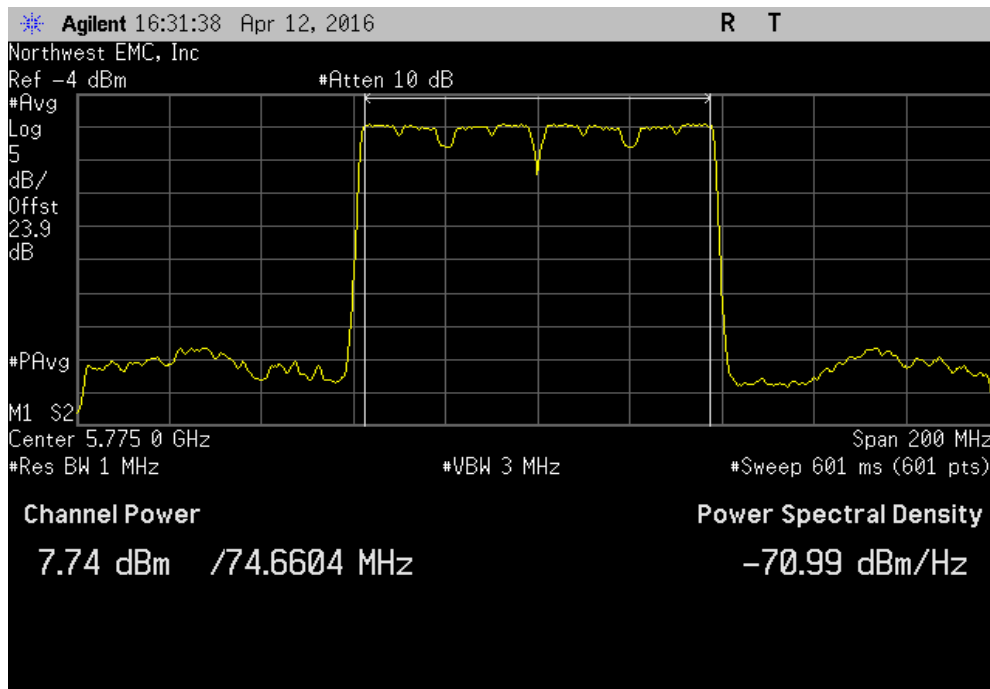


# MAXIMUM CONDUCTED OUTPUT POWER

| 2x2 MIMO, Chain A, 80MHz BW, Mid Channel, Ch 149/161 - 5775 MHz, 802.11(ac) MCS0 |                        |             |             |         |  |  |
|----------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                               | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 8.62                                                                             | 0.6                    | 9.2         | 30          | Pass    |  |  |

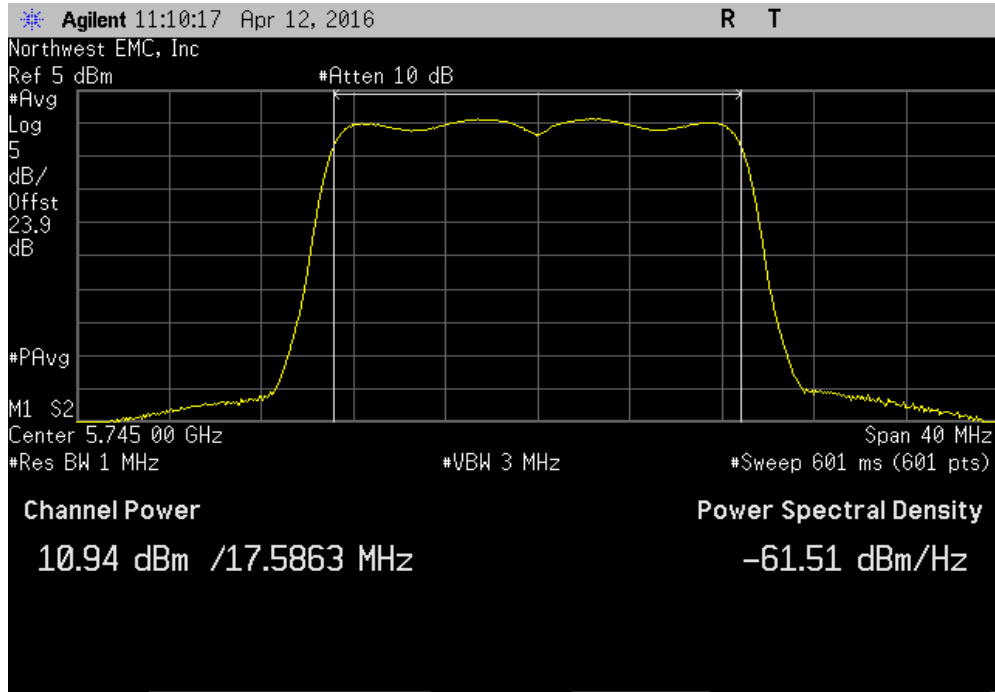


| 2x2 MIMO, Chain A, 80MHz BW, Mid Channel, Ch 149/161 - 5775 MHz, 802.11(ac) MCS9 |                        |             |             |         |  |  |
|----------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                               | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 7.741                                                                            | 2.8                    | 10.6        | 30          | Pass    |  |  |

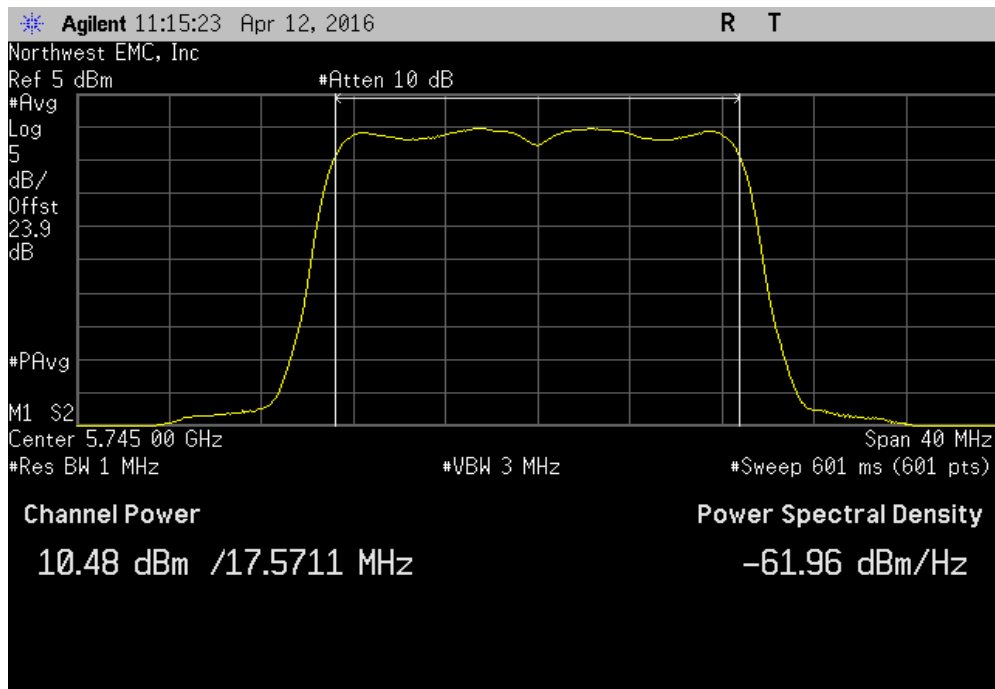


# MAXIMUM CONDUCTED OUTPUT POWER

| 2x2 MIMO, Chain B, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(n) MCS8 |                        |             |             |         |  |  |
|-----------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                          | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 10.939                                                                      | 0.1                    | 11          | 30          | Pass    |  |  |

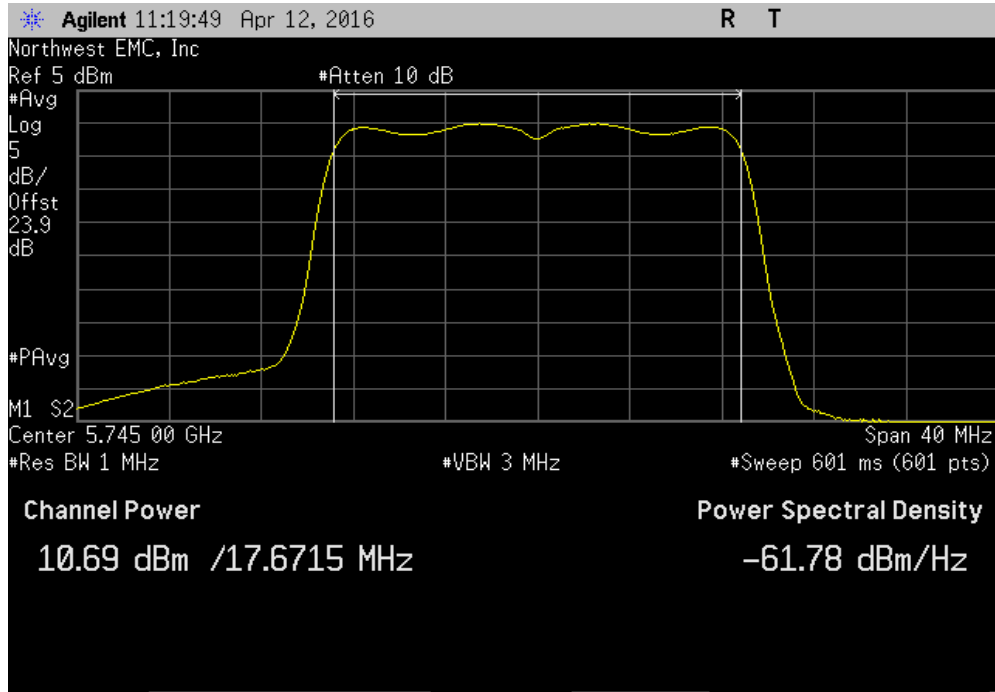


| 2x2 MIMO, Chain B, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(n) MCS15 |                        |             |             |         |  |  |
|------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                           | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 10.485                                                                       | 0.8                    | 11.2        | 30          | Pass    |  |  |

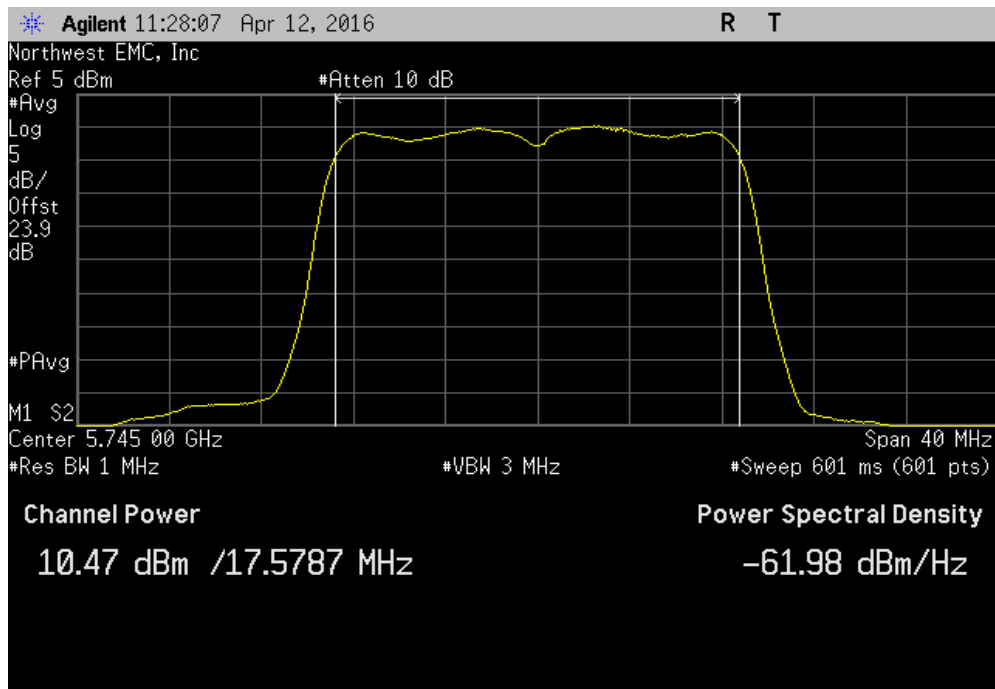


# MAXIMUM CONDUCTED OUTPUT POWER

| 2x2 MIMO, Chain B, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(ac) MCS0 |                        |             |             |         |  |  |
|------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                           | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 10.692                                                                       | 0.1                    | 10.8        | 30          | Pass    |  |  |

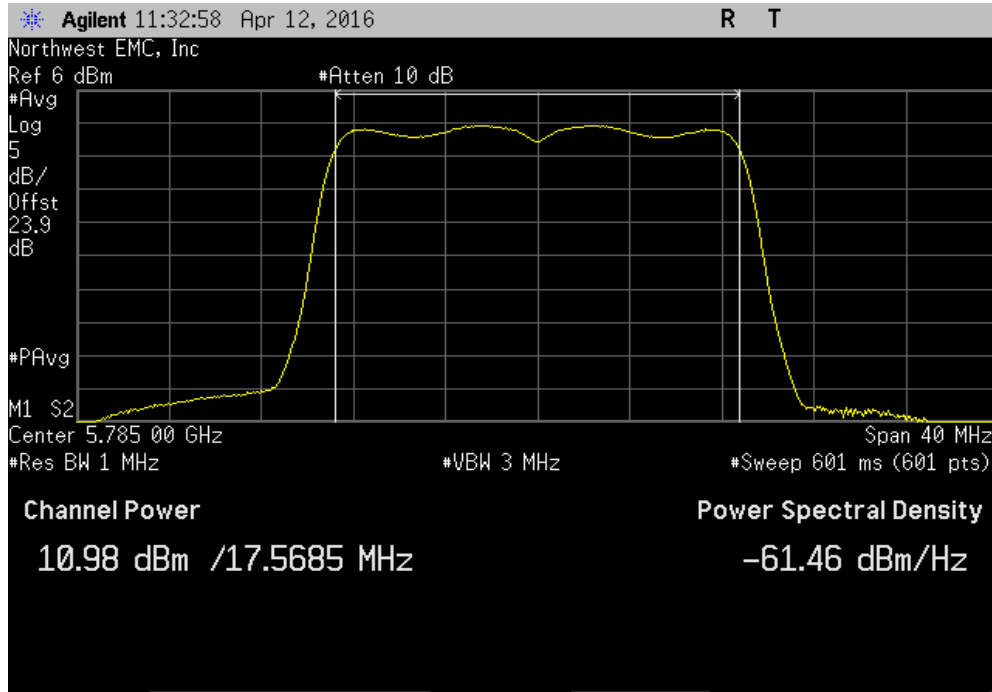


| 2x2 MIMO, Chain B, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(ac) MCS8 |                        |             |             |         |  |  |
|------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                           | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 10.467                                                                       | 0.7                    | 11.2        | 30          | Pass    |  |  |

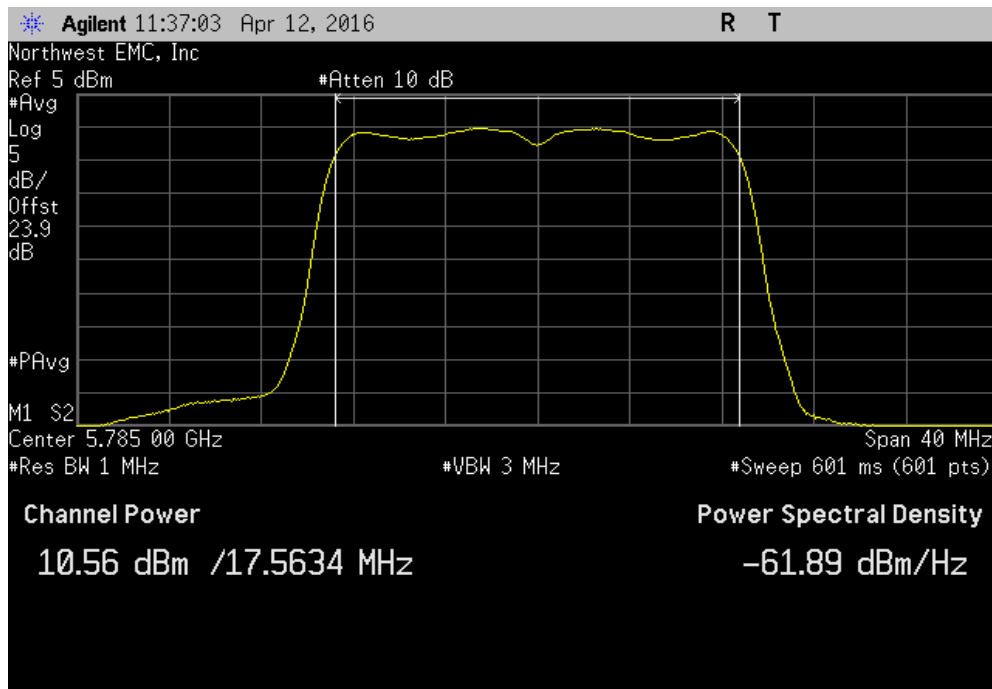


# MAXIMUM CONDUCTED OUTPUT POWER

| 2x2 MIMO, Chain B, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(n) MCS8 |                        |             |             |         |  |
|-----------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|
| Avg Cond Pwr (dBm)                                                          | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |
| 10.984                                                                      | 0.1                    | 11.1        | 30          | Pass    |  |



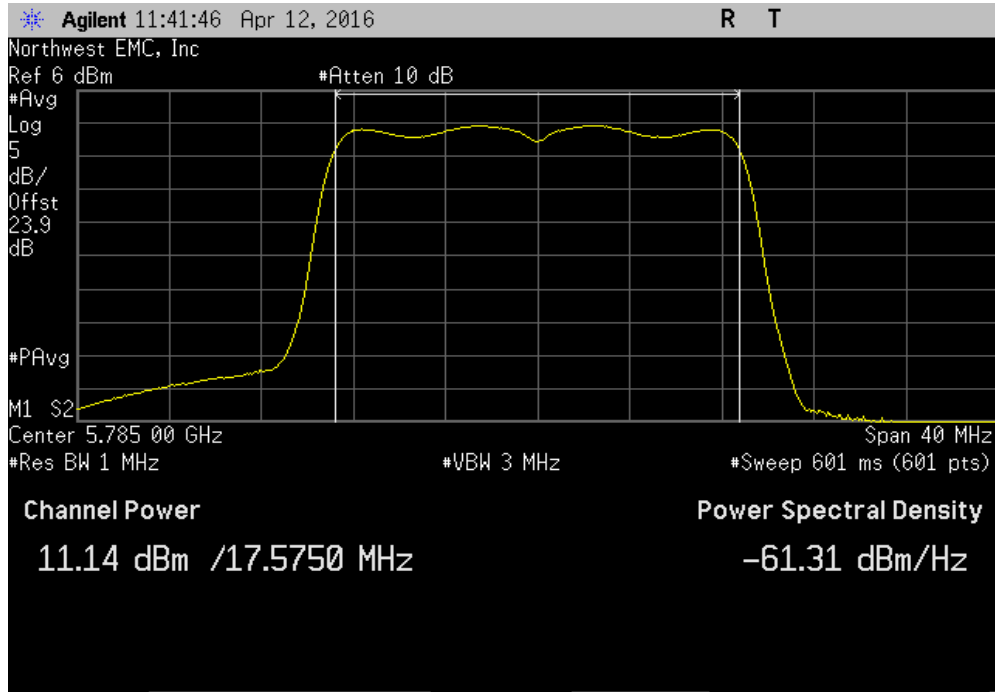
| 2x2 MIMO, Chain B, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(n) MCS15 |                        |             |             |         |  |
|------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|
| Avg Cond Pwr (dBm)                                                           | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |
| 10.559                                                                       | 0.8                    | 11.3        | 30          | Pass    |  |



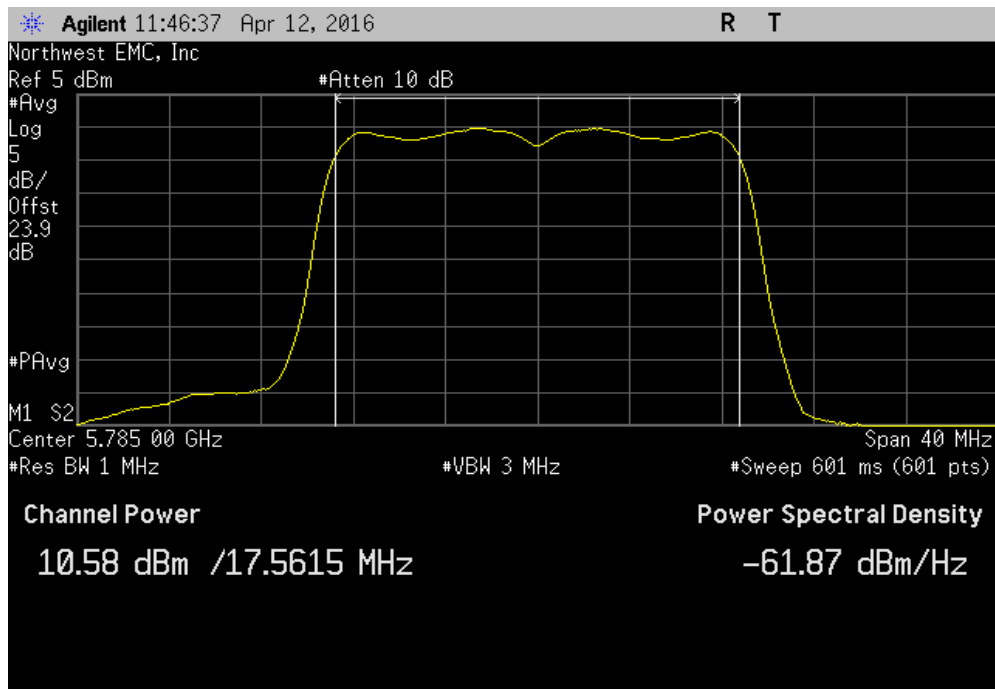


# MAXIMUM CONDUCTED OUTPUT POWER

| 2x2 MIMO, Chain B, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(ac) MCS0 |                        |             |             |         |  |  |
|------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                           | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 11.144                                                                       | 0.1                    | 11.2        | 30          | Pass    |  |  |

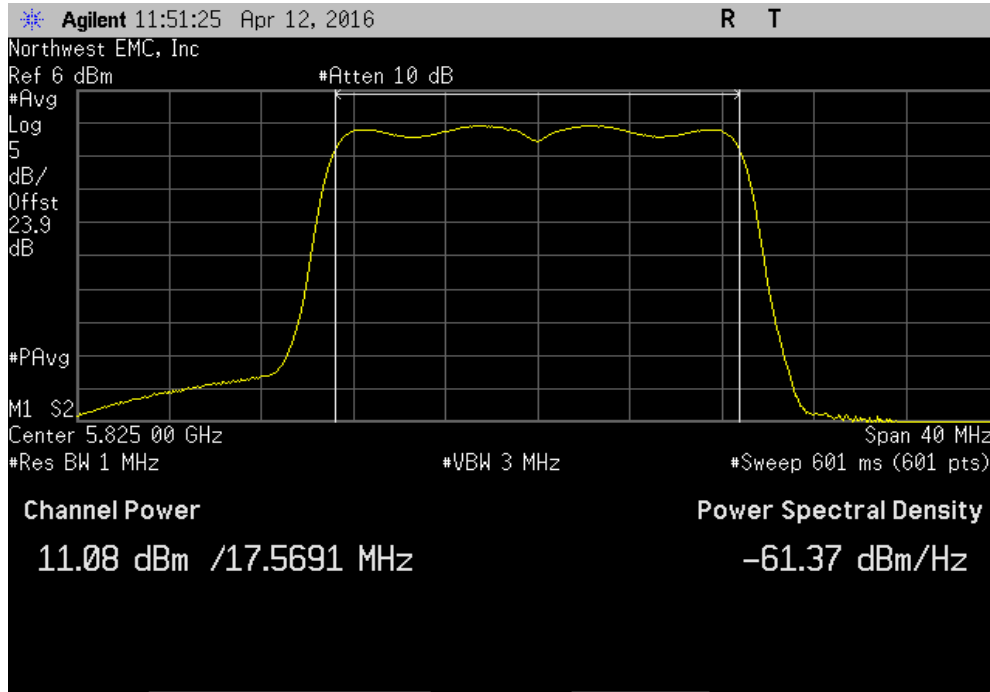


| 2x2 MIMO, Chain B, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(ac) MCS8 |                        |             |             |         |  |  |
|------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                           | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 10.576                                                                       | 0.7                    | 11.3        | 30          | Pass    |  |  |

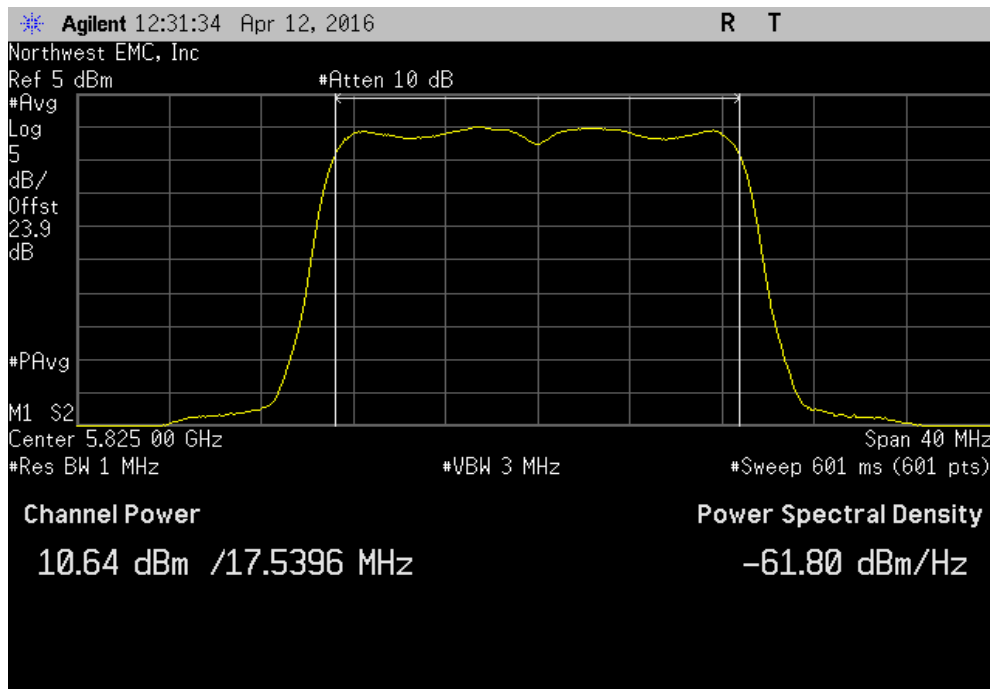


# MAXIMUM CONDUCTED OUTPUT POWER

| 2x2 MIMO, Chain B, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(n) MCS8 |                        |             |             |         |  |
|------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|
| Avg Cond Pwr (dBm)                                                           | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |
| 11.077                                                                       | 0.1                    | 11.2        | 30          | Pass    |  |

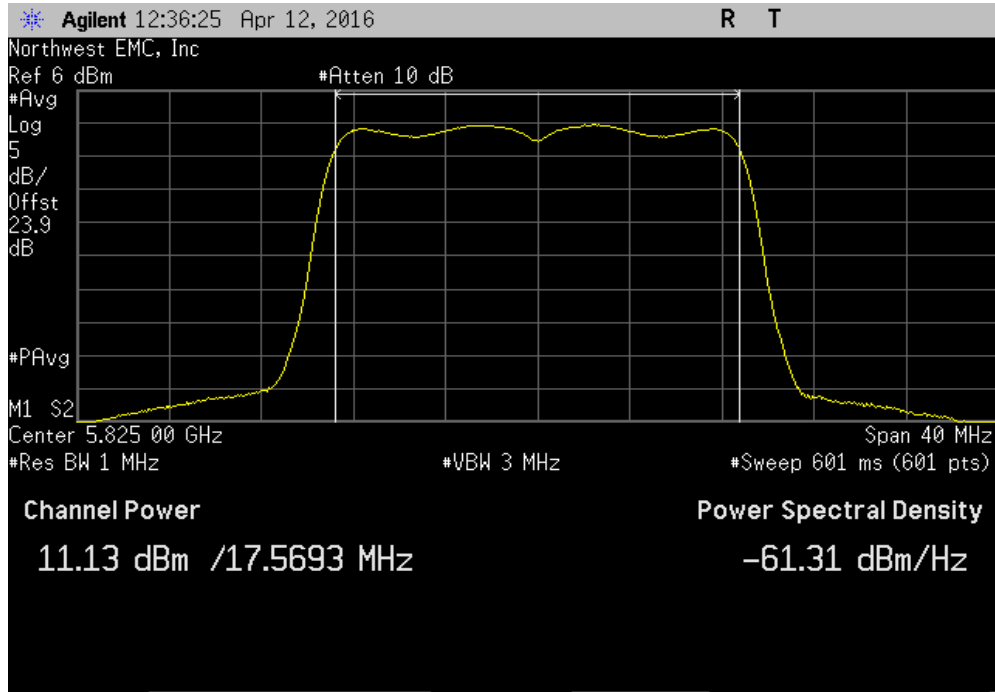


| 2x2 MIMO, Chain B, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(n) MCS15 |                        |             |             |         |  |
|-------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|
| Avg Cond Pwr (dBm)                                                            | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |
| 10.636                                                                        | 0.8                    | 11.4        | 30          | Pass    |  |

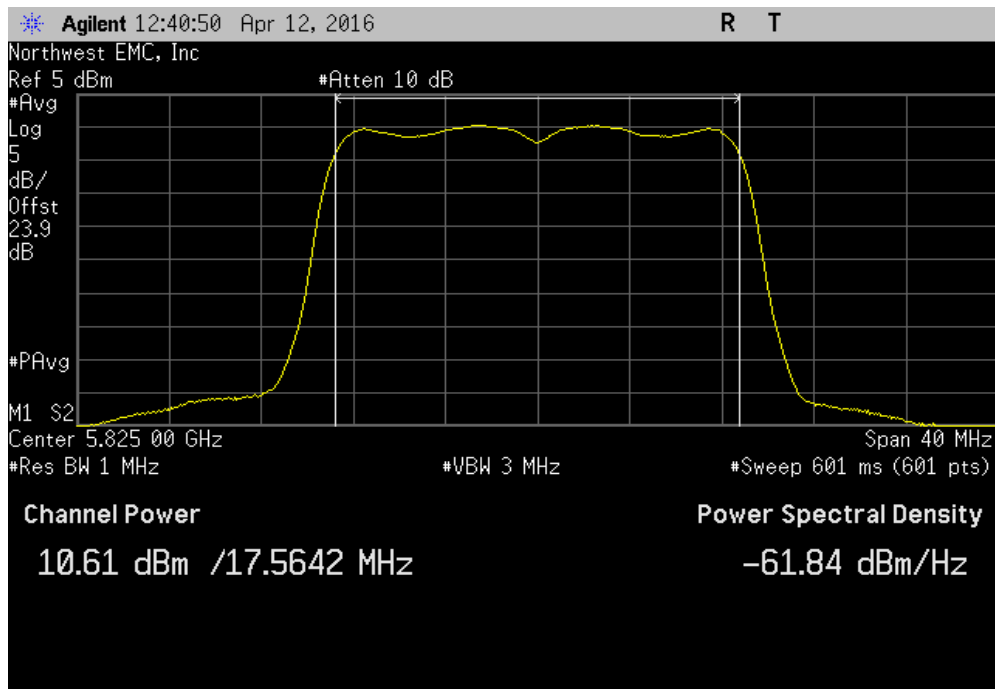


# MAXIMUM CONDUCTED OUTPUT POWER

| 2x2 MIMO, Chain B, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(ac) MCS0 |                        |             |             |         |  |  |
|-------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                            | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 11.133                                                                        | 0.1                    | 11.2        | 30          | Pass    |  |  |

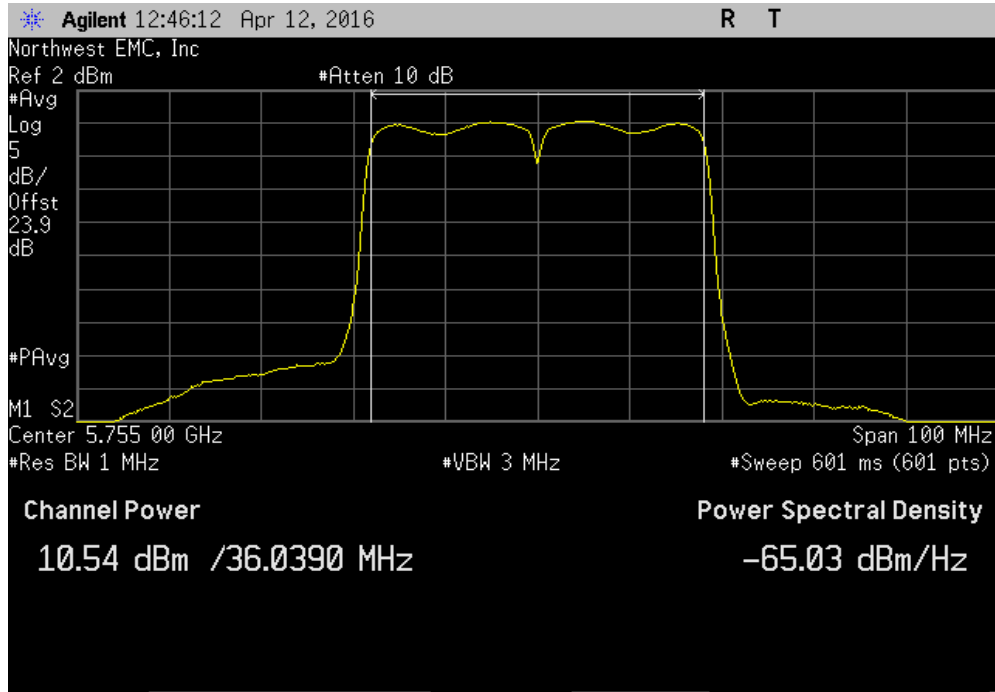


| 2x2 MIMO, Chain B, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(ac) MCS8 |                        |             |             |         |  |  |
|-------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                            | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 10.608                                                                        | 0.7                    | 11.3        | 30          | Pass    |  |  |

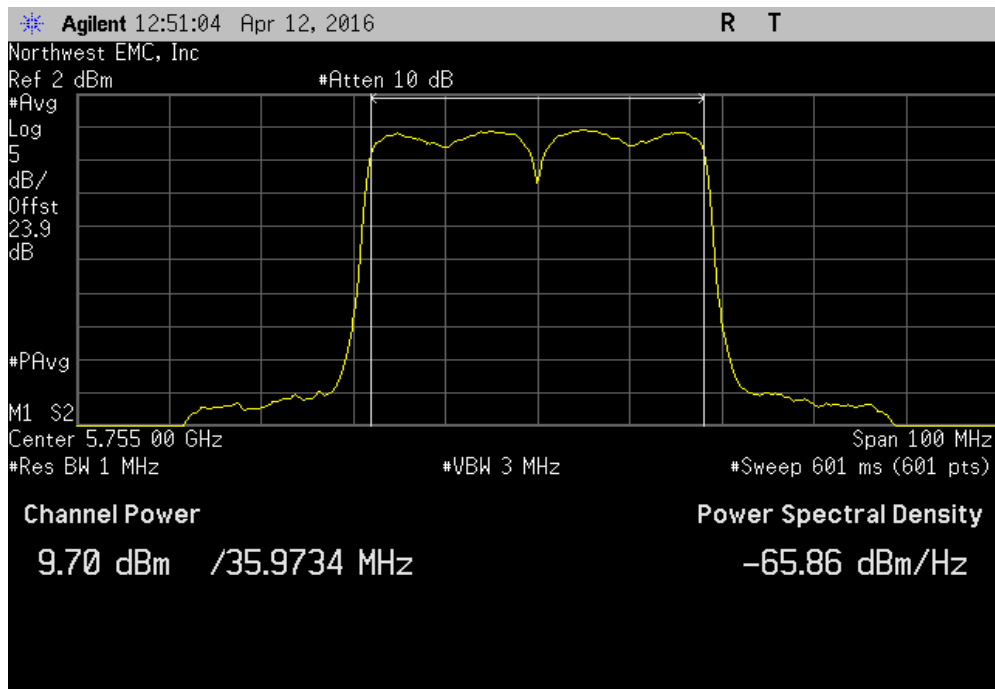


# MAXIMUM CONDUCTED OUTPUT POWER

| 2x2 MIMO, Chain B, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(n) MCS8 |                        |             |             |         |  |  |
|---------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                              | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 10.541                                                                          | 0.3                    | 10.9        | 30          | Pass    |  |  |

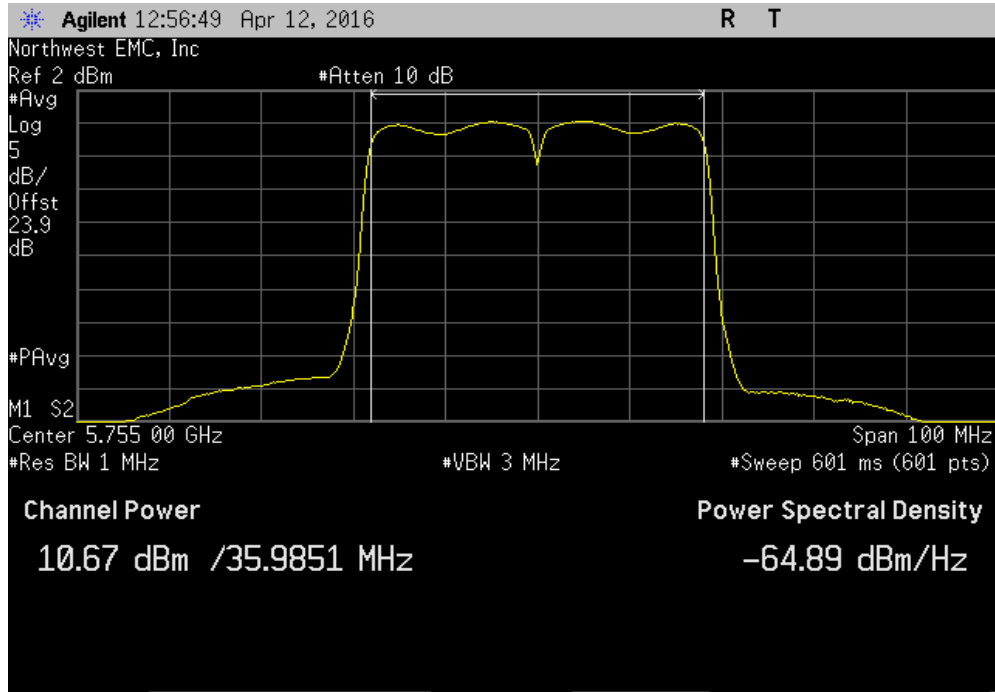


| 2x2 MIMO, Chain B, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(n) MCS15 |                        |             |             |         |  |  |
|----------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                               | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 9.704                                                                            | 2.4                    | 12.1        | 30          | Pass    |  |  |

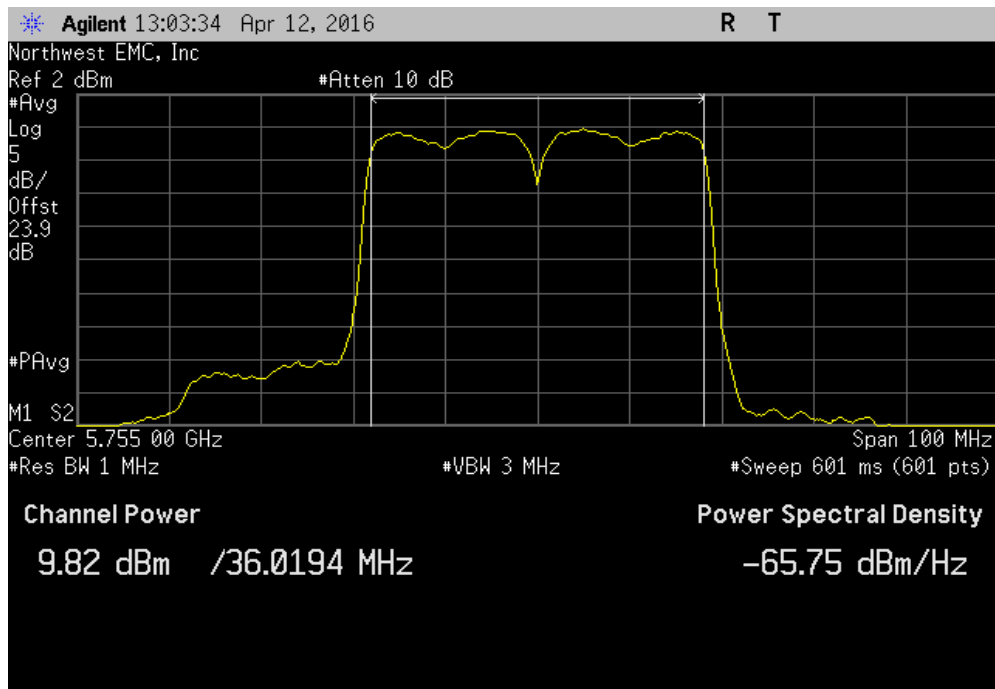


# MAXIMUM CONDUCTED OUTPUT POWER

| 2x2 MIMO, Chain B, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(ac) MCS0 |                        |             |             |         |  |  |
|----------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                               | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 10.668                                                                           | 0.3                    | 11          | 30          | Pass    |  |  |

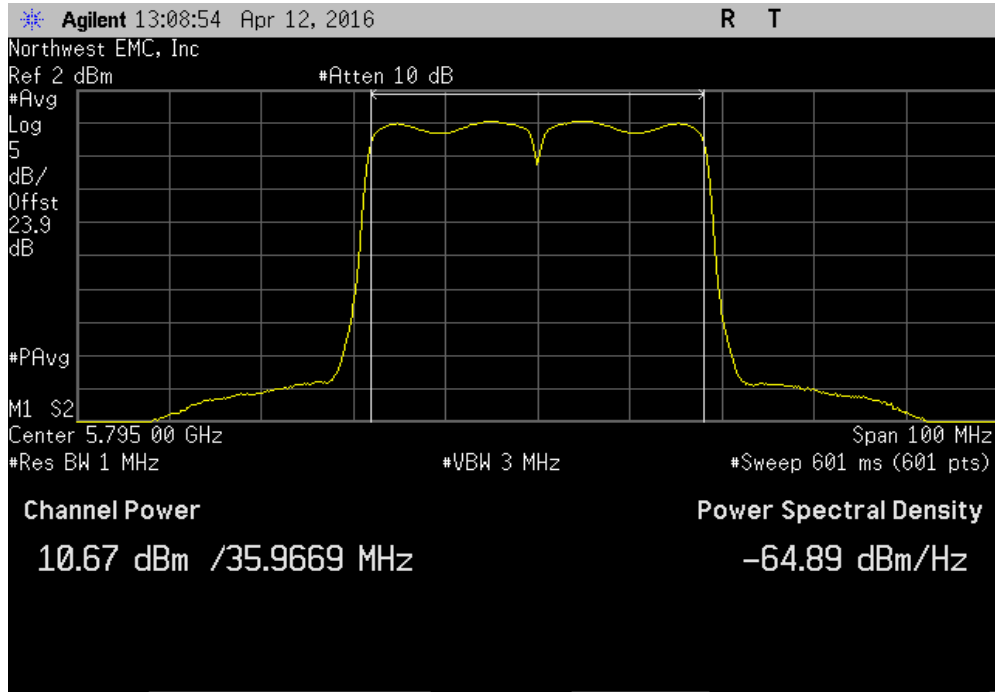


| 2x2 MIMO, Chain B, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(ac) MCS9 |                        |             |             |         |  |  |
|----------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                               | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 9.817                                                                            | 1.1                    | 10.9        | 30          | Pass    |  |  |

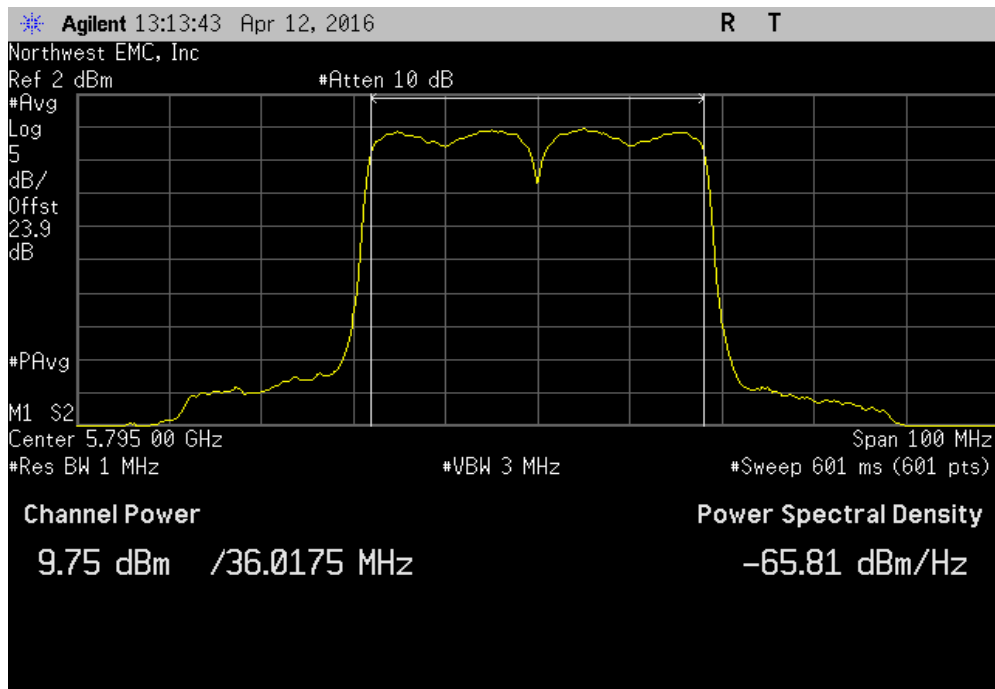


# MAXIMUM CONDUCTED OUTPUT POWER

| 2x2 MIMO, Chain B, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(n) MCS8 |                        |             |             |         |  |  |
|----------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                               | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 10.667                                                                           | 0.3                    | 11          | 30          | Pass    |  |  |

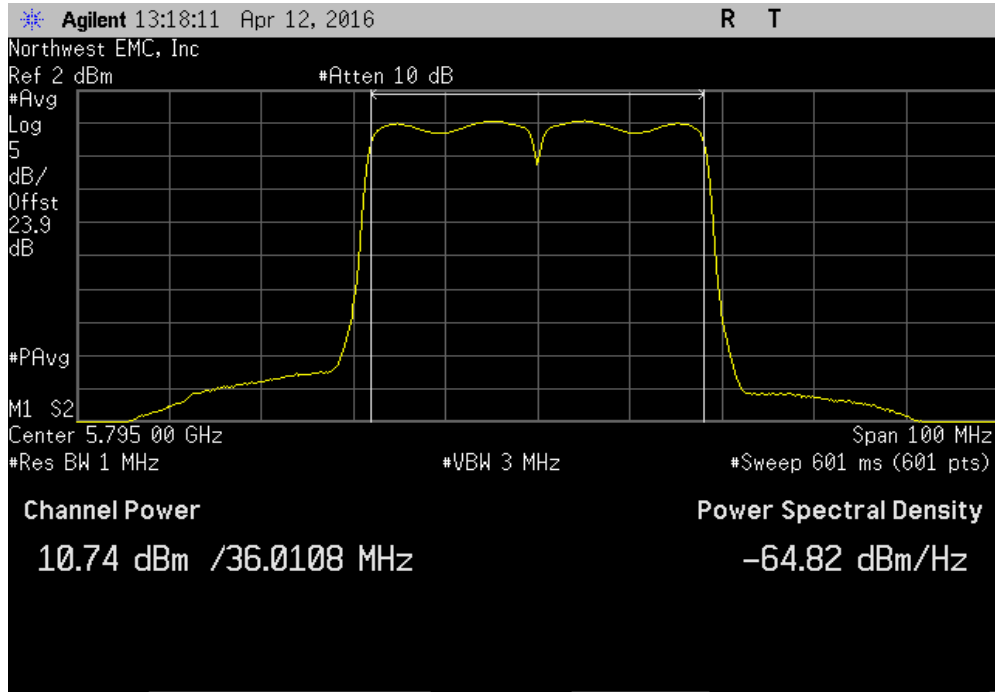


| 2x2 MIMO, Chain B, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(n) MCS15 |                        |             |             |         |  |  |
|-----------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                                | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 9.754                                                                             | 2.4                    | 12.1        | 30          | Pass    |  |  |

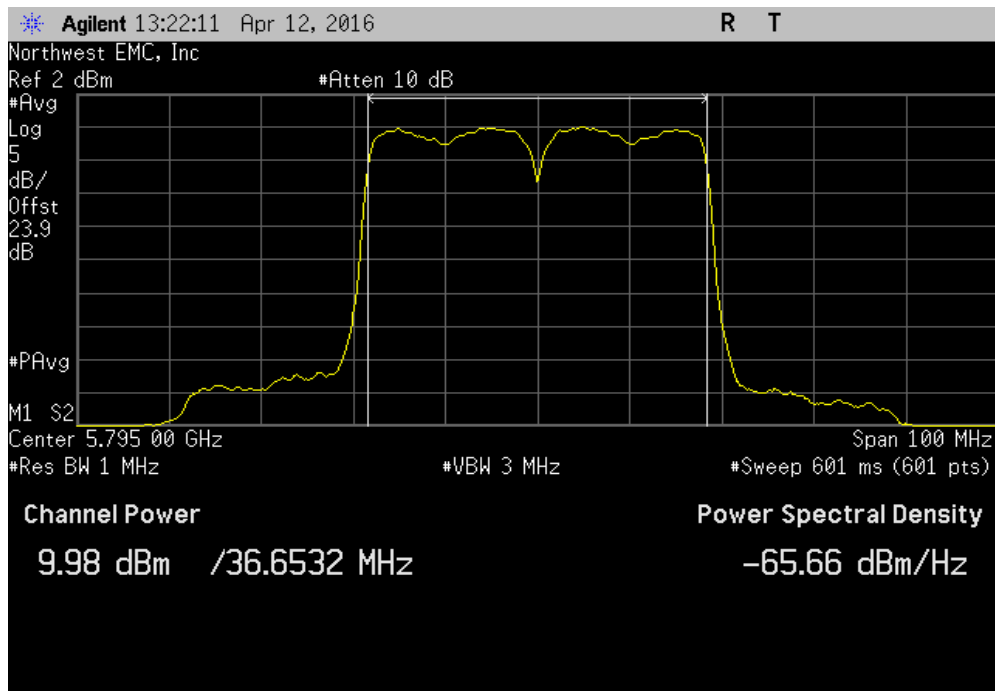


# MAXIMUM CONDUCTED OUTPUT POWER

| 2x2 MIMO, Chain B, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(ac) MCS0 |                        |             |             |         |  |  |
|-----------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                                | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 10.743                                                                            | 0.3                    | 11.1        | 30          | Pass    |  |  |

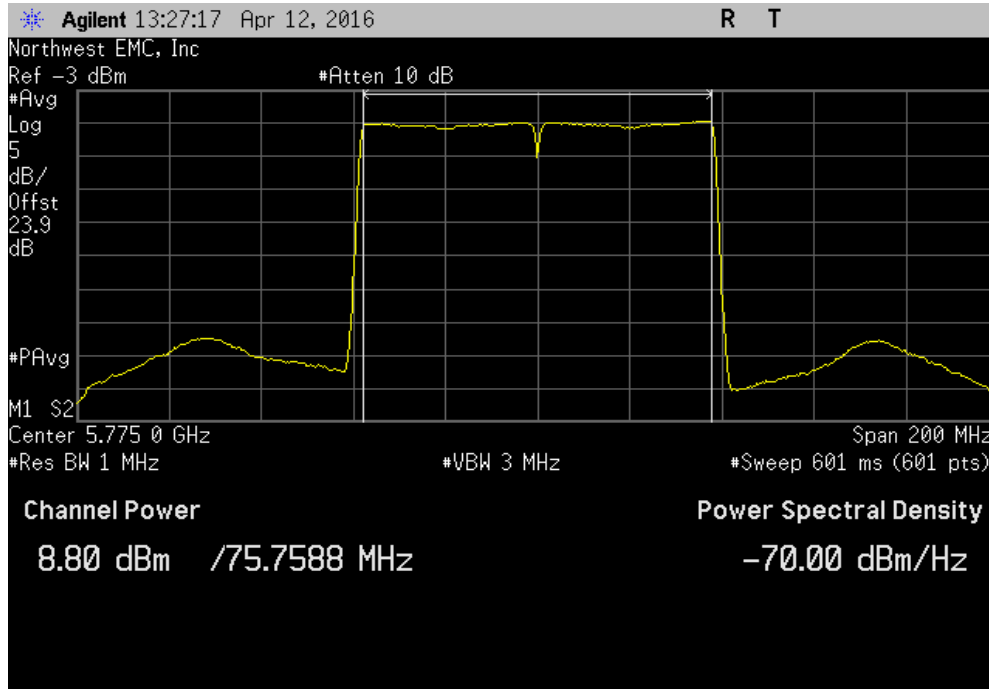


| 2x2 MIMO, Chain B, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(ac) MCS9 |                        |             |             |         |  |  |
|-----------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                                | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 9.978                                                                             | 2.5                    | 12.5        | 30          | Pass    |  |  |

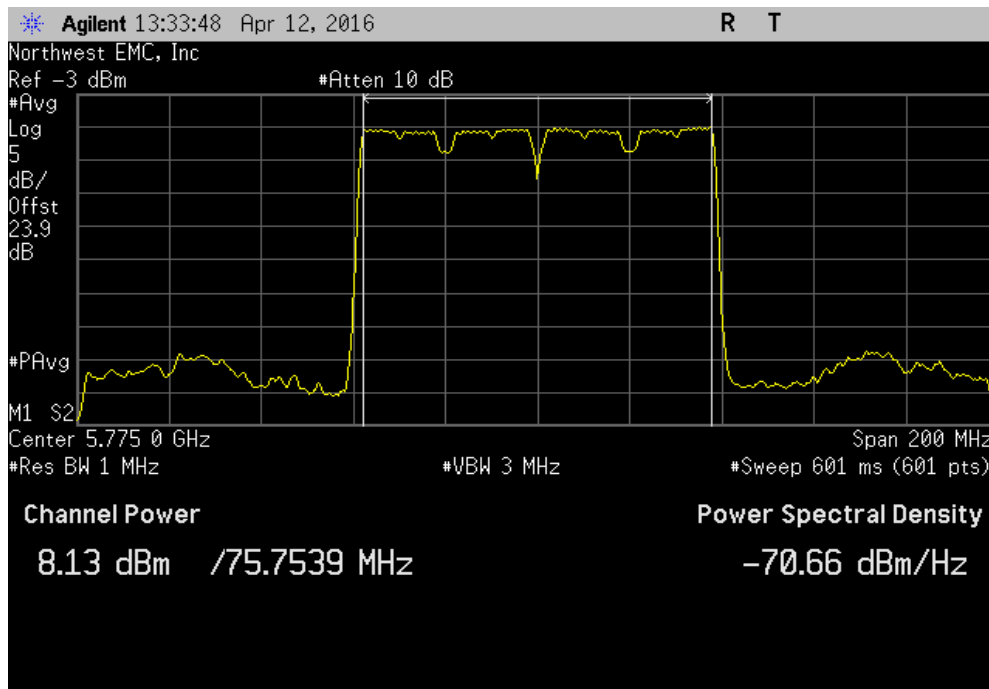


# MAXIMUM CONDUCTED OUTPUT POWER

| 2x2 MIMO, Chain B, 80MHz BW, Mid Channel, Ch 149/161 - 5775 MHz, 802.11(ac) MCS0 |                        |             |             |         |  |  |
|----------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                               | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 8.796                                                                            | 0.6                    | 9.4         | 30          | Pass    |  |  |



| 2x2 MIMO, Chain B, 80MHz BW, Mid Channel, Ch 149/161 - 5775 MHz, 802.11(ac) MCS9 |                        |             |             |         |  |  |
|----------------------------------------------------------------------------------|------------------------|-------------|-------------|---------|--|--|
| Avg Cond Pwr (dBm)                                                               | Duty Cycle Factor (dB) | Value (dBm) | Limit (dBm) | Results |  |  |
| 8.132                                                                            | 1.5                    | 9.7         | 30          | Pass    |  |  |





# OCCUPIED BANDWIDTH

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

## TEST EQUIPMENT

| Description                  | Manufacturer       | Model            | ID  | Last Cal.  | Interval (mo) |
|------------------------------|--------------------|------------------|-----|------------|---------------|
| Analyzer - Spectrum Analyzer | Agilent            | E4440A           | AFE | 6/22/2015  | 12            |
| Block - DC                   | Fairview Microwave | SD3379           | AMJ | 6/6/2015   | 12            |
| Attenuator                   | Fairview Microwave | SA4014-20        | TKV | 3/4/2016   | 12            |
| Cable                        | ESM Cable Corp.    | TTBJ-141 KMKM-72 | NC5 | 6/6/2015   | 12            |
| Generator - Signal           | Agilent            | N5183A           | TID | 11/26/2014 | 36            |

## TEST DESCRIPTION

The transmit frequencies and data rates listed in the datasheet were measured in each band utilized by the radio. The transmit power was set to its default maximum.

A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer input.

Per ANSI C63.10, the spectrum analyzer settings were as follows:

-RBW = 100 kHz

-VBW =  $\geq 3x$  RBW

-Detector = Peak

-Trace mode = max hold

The spectrum analyzer occupied bandwidth measurement function was then used to measure the 6 dB emission bandwidth.

The 99.9% (approximate 26 dB) emission bandwidth (EBW) was also measured at the same time to be used for setting the channel power integration bandwidth during conducted output power testing.

# OCCUPIED BANDWIDTH

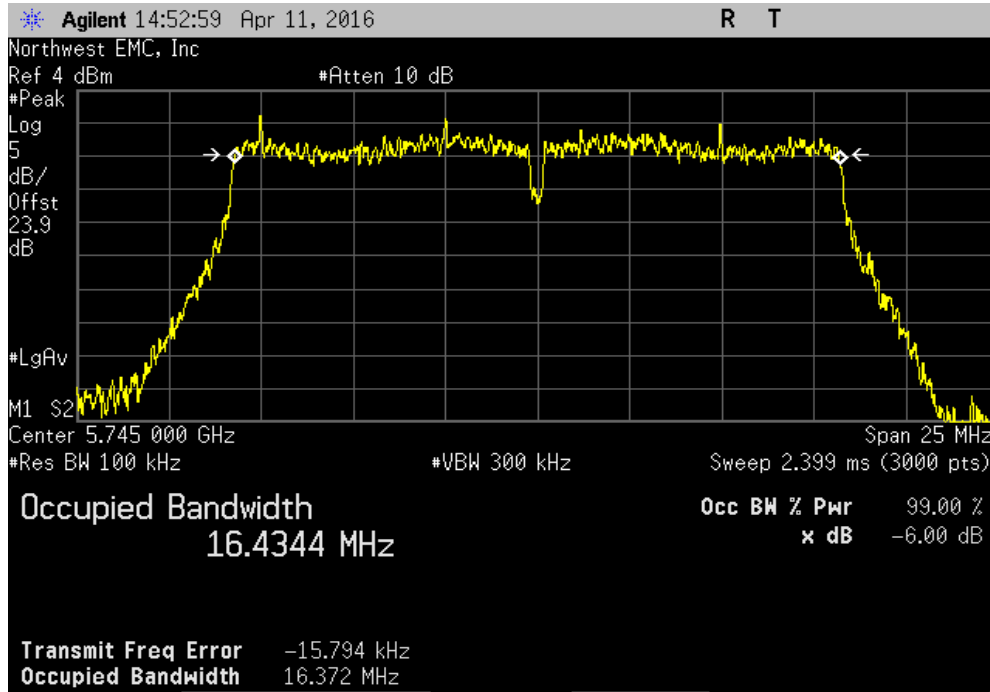


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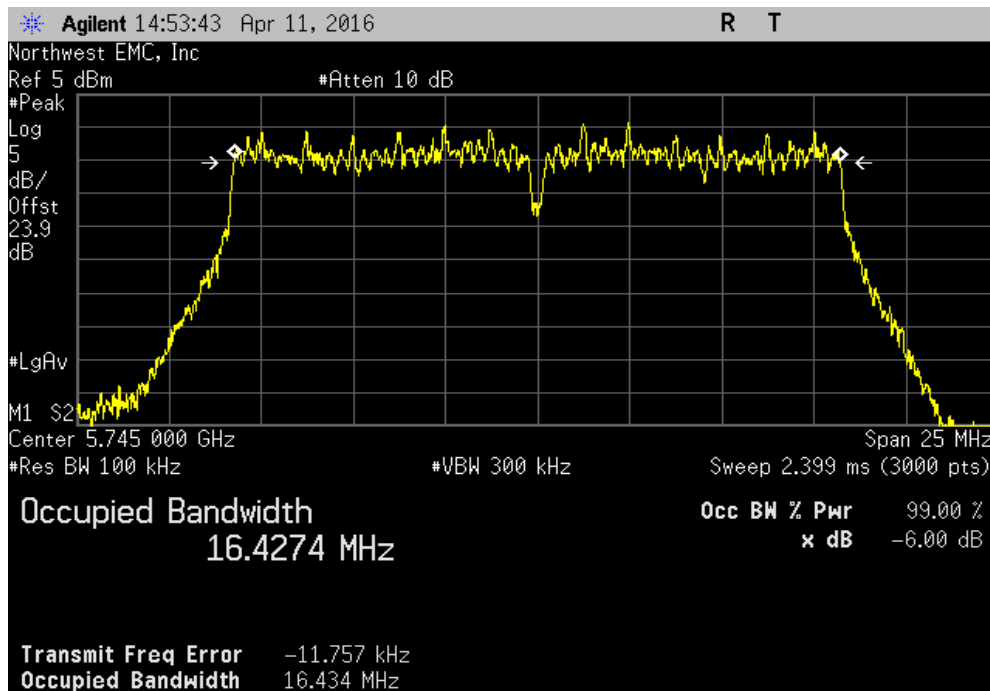
|                                                                                                                                                                                                                     |                   |                             |                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------|------------------|
| EUT: Model 1631                                                                                                                                                                                                     |                   | Work Order: MCSO1748        |                  |
| Serial Number: 041152140753                                                                                                                                                                                         |                   | Date: 04/12/16              |                  |
| Customer: Microsoft Corporation                                                                                                                                                                                     |                   | Temperature: 23°C           |                  |
| Attendees: None                                                                                                                                                                                                     |                   | Humidity: 33%               |                  |
| Project: None                                                                                                                                                                                                       |                   | Barometric Pres.: 1019 mbar |                  |
| Tested by: Richard Mellroth                                                                                                                                                                                         |                   | Power: 110VAC/60Hz          |                  |
|                                                                                                                                                                                                                     |                   | Job Site: NC02              |                  |
| TEST SPECIFICATIONS                                                                                                                                                                                                 |                   | Test Method                 |                  |
| FCC 15.407:2016                                                                                                                                                                                                     |                   | ANSI C63.10:2013            |                  |
| COMMENTS                                                                                                                                                                                                            |                   |                             |                  |
| Power setting at 11dBm for 20MHz and 40MHz channels. Power Setting at 10dBm for 80MHz channels. Client supplied adapter cable loss of 1.3dB included in reference level offset. Signal setting at > 95% Duty Cycle. |                   |                             |                  |
| DEVIATIONS FROM TEST STANDARD                                                                                                                                                                                       |                   |                             |                  |
| None                                                                                                                                                                                                                |                   |                             |                  |
| Configuration #                                                                                                                                                                                                     | 1                 | Signature                   |                  |
|                                                                                                                                                                                                                     |                   | Value                       | Limit (-) Result |
| SISO, Chain A                                                                                                                                                                                                       |                   |                             |                  |
| 20MHz BW                                                                                                                                                                                                            |                   |                             |                  |
| Low Channel, Ch 149 - 5745 MHz                                                                                                                                                                                      |                   |                             |                  |
|                                                                                                                                                                                                                     | 802.11(a) 6 Mbps  | 16.372 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(a) 36 Mbps | 16.434 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(a) 54 Mbps | 16.409 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(n) MCS0    | 17.622 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(n) MCS7    | 17.46 MHz                   | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0   | 17.636 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8   | 17.539 MHz                  | 500 kHz Pass     |
| Mid Channel, Ch 157 - 5785 MHz                                                                                                                                                                                      |                   |                             |                  |
|                                                                                                                                                                                                                     | 802.11(a) 6 Mbps  | 16.394 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(a) 36 Mbps | 16.307 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(a) 54 Mbps | 16.378 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(n) MCS0    | 17.602 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(n) MCS7    | 17.578 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0   | 16.948 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8   | 17.588 MHz                  | 500 kHz Pass     |
| High Channel, Ch 165 - 5825 MHz                                                                                                                                                                                     |                   |                             |                  |
|                                                                                                                                                                                                                     | 802.11(a) 6 Mbps  | 16.504 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(a) 36 Mbps | 16.426 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(a) 54 Mbps | 16.46 MHz                   | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(n) MCS0    | 17.408 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(n) MCS7    | 17.593 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0   | 17.572 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8   | 17.382 MHz                  | 500 kHz Pass     |
| 40MHz BW                                                                                                                                                                                                            |                   |                             |                  |
| Low Channel, Ch 149/153 - 5755 MHz                                                                                                                                                                                  |                   |                             |                  |
|                                                                                                                                                                                                                     | 802.11(n) MCS0    | 35.953 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(n) MCS7    | 35.735 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0   | 35.422 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9   | 35.706 MHz                  | 500 kHz Pass     |
| High Channel, Ch 157/161 - 5795 MHz                                                                                                                                                                                 |                   |                             |                  |
|                                                                                                                                                                                                                     | 802.11(n) MCS0    | 35.496 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(n) MCS7    | 35.642 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0   | 35.466 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9   | 35.63 MHz                   | 500 kHz Pass     |
| 80MHz BW                                                                                                                                                                                                            |                   |                             |                  |
| Mid Channel, Ch 149/161 - 5775 MHz                                                                                                                                                                                  |                   |                             |                  |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0   | 76.303 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9   | 76.441 MHz                  | 500 kHz Pass     |
| SISO, Chain B                                                                                                                                                                                                       |                   |                             |                  |
| 20MHz BW                                                                                                                                                                                                            |                   |                             |                  |
| Low Channel, Ch 149 - 5745 MHz                                                                                                                                                                                      |                   |                             |                  |
|                                                                                                                                                                                                                     | 802.11(a) 6 Mbps  | 16.349 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(a) 36 Mbps | 16.455 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(a) 54 Mbps | 16.411 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(n) MCS0    | 17.655 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(n) MCS7    | 17.595 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0   | 17.587 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8   | 17.423 MHz                  | 500 kHz Pass     |
| Mid Channel, Ch 157 - 5785 MHz                                                                                                                                                                                      |                   |                             |                  |
|                                                                                                                                                                                                                     | 802.11(a) 6 Mbps  | 16.405 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(a) 36 Mbps | 16.428 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(a) 54 Mbps | 16.383 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(n) MCS0    | 17.558 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(n) MCS7    | 17.475 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0   | 17.621 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8   | 17.612 MHz                  | 500 kHz Pass     |
| High Channel, Ch 165 - 5825 MHz                                                                                                                                                                                     |                   |                             |                  |
|                                                                                                                                                                                                                     | 802.11(a) 6 Mbps  | 16.369 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(a) 36 Mbps | 16.478 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(a) 54 Mbps | 16.356 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(n) MCS0    | 17.625 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(n) MCS7    | 17.642 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0   | 17.382 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8   | 17.535 MHz                  | 500 kHz Pass     |
| 40MHz BW                                                                                                                                                                                                            |                   |                             |                  |
| Low Channel, Ch 149/153 - 5755 MHz                                                                                                                                                                                  |                   |                             |                  |
|                                                                                                                                                                                                                     | 802.11(n) MCS0    | 36.324 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(n) MCS7    | 35.86 MHz                   | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0   | 35.901 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9   | 35.715 MHz                  | 500 kHz Pass     |
| High Channel, Ch 157/161 - 5795 MHz                                                                                                                                                                                 |                   |                             |                  |
|                                                                                                                                                                                                                     | 802.11(n) MCS0    | 35.695 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(n) MCS7    | 35.681 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0   | 35.817 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9   | 36.01 MHz                   | 500 kHz Pass     |
| 80MHz BW                                                                                                                                                                                                            |                   |                             |                  |
| Mid Channel, Ch 149/161 - 5775 MHz                                                                                                                                                                                  |                   |                             |                  |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0   | 76.317 MHz                  | 500 kHz Pass     |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9   | 76.474 MHz                  | 500 kHz Pass     |

# OCCUPIED BANDWIDTH

| SISO, Chain A, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(a) 6 Mbps |  |  |  |            |         |        |
|---------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                           |  |  |  | Value      | Limit   | Result |
|                                                                           |  |  |  | 16.372 MHz | 500 kHz | Pass   |

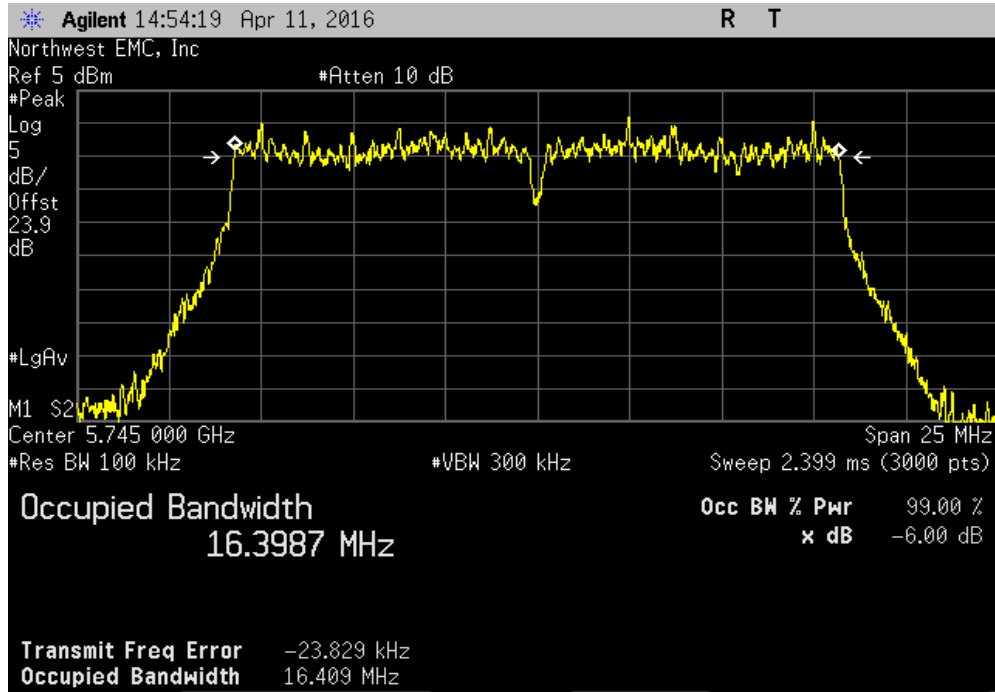


| SISO, Chain A, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(a) 36 Mbps |  |  |  |            |         |        |
|----------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                            |  |  |  | Value      | Limit   | Result |
|                                                                            |  |  |  | 16.434 MHz | 500 kHz | Pass   |

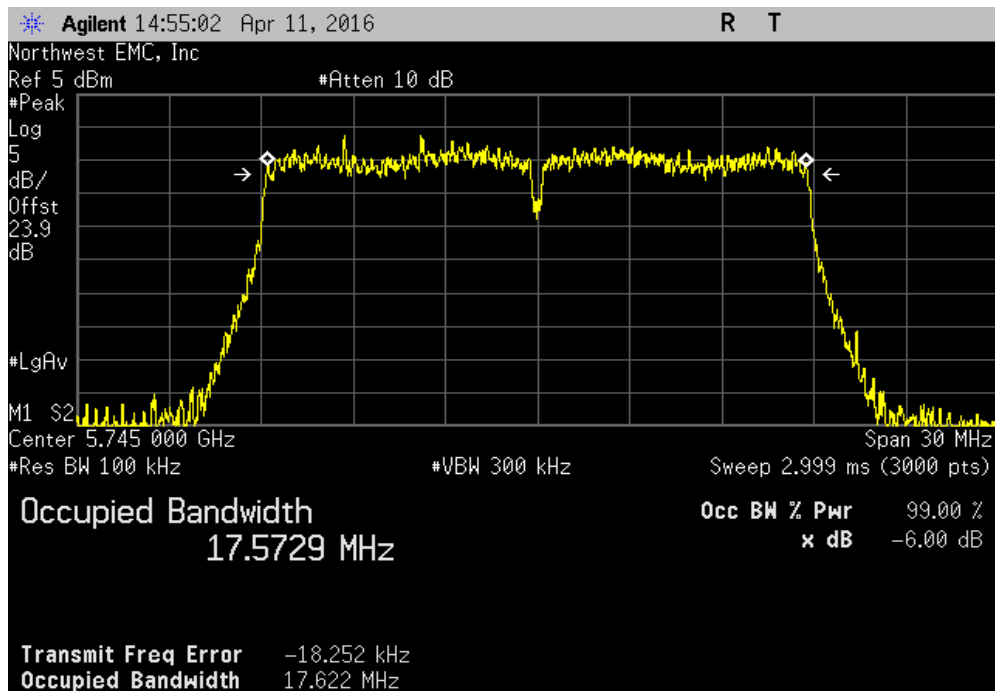


# OCCUPIED BANDWIDTH

| SISO, Chain A, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(a) 54 Mbps |  |  |  |            |         |        |
|----------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                            |  |  |  | Value      | Limit   | Result |
|                                                                            |  |  |  | 16.409 MHz | 500 kHz | Pass   |

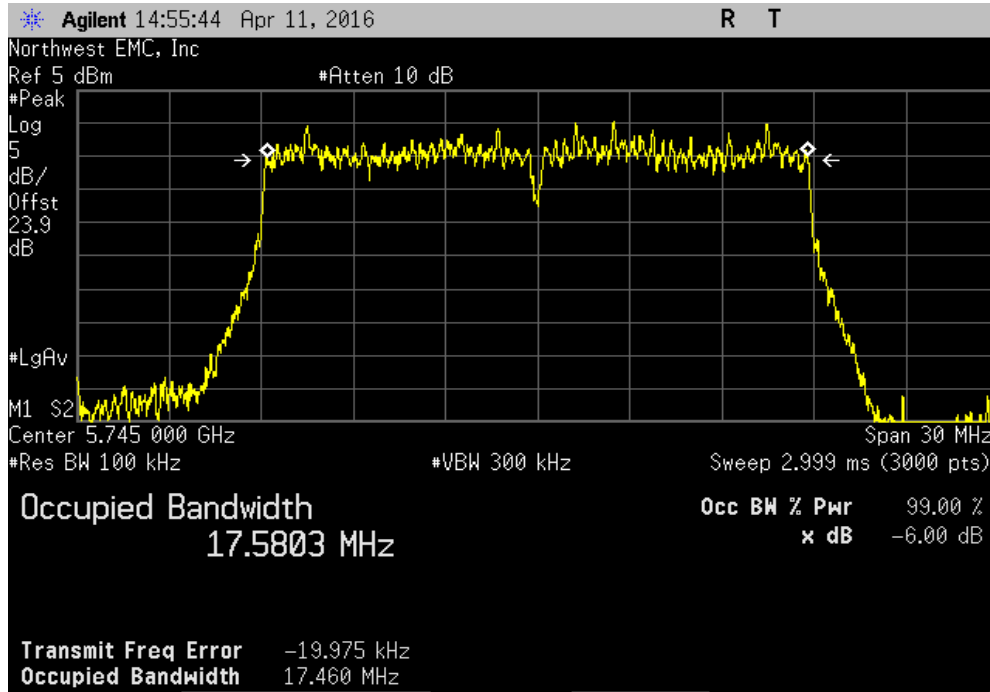


| SISO, Chain A, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(n) MCS0 |  |  |  |            |         |        |
|-------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                         |  |  |  | Value      | Limit   | Result |
|                                                                         |  |  |  | 17.622 MHz | 500 kHz | Pass   |

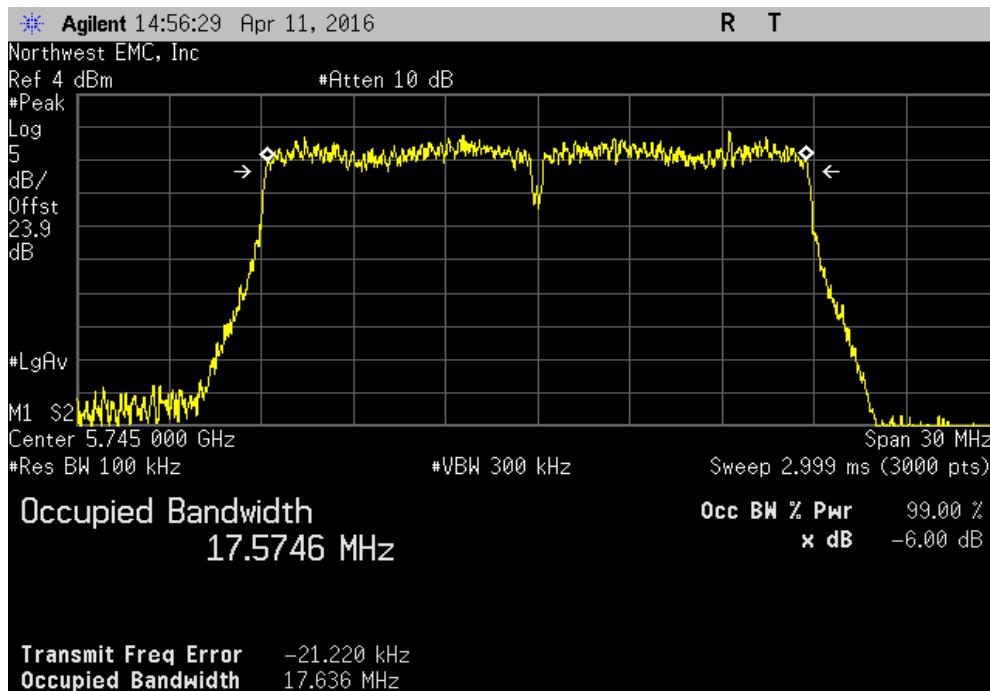


# OCCUPIED BANDWIDTH

| SISO, Chain A, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(n) MCS7 |  |  |  |           |         |        |
|-------------------------------------------------------------------------|--|--|--|-----------|---------|--------|
|                                                                         |  |  |  | Value     | Limit   | Result |
|                                                                         |  |  |  | 17.46 MHz | 500 kHz | Pass   |

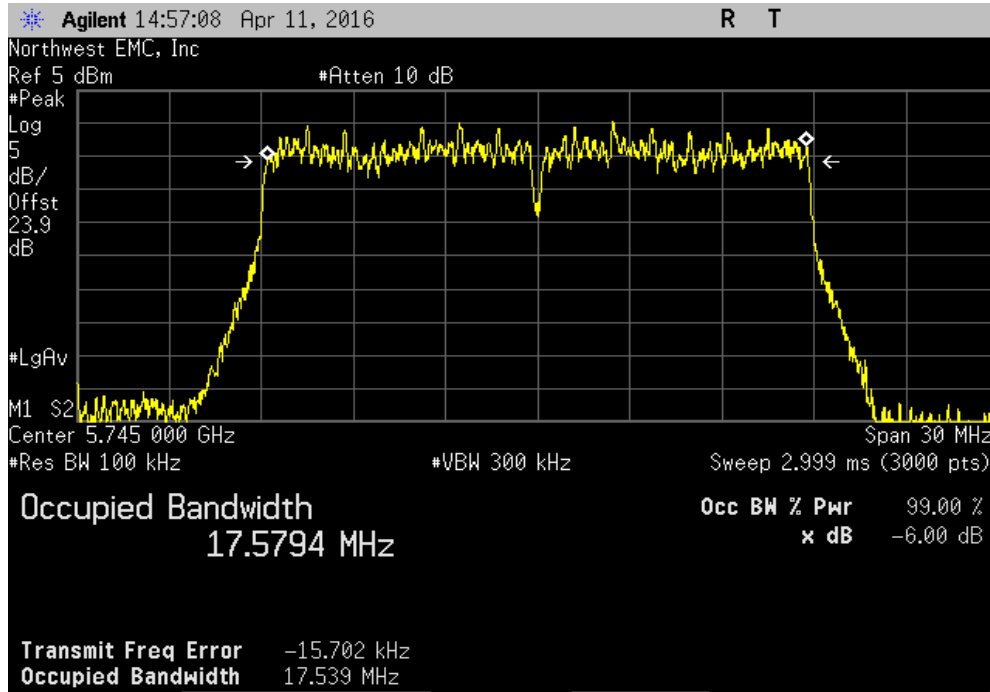


| SISO, Chain A, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(ac) MCS0 |  |  |  |            |         |        |
|--------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                          |  |  |  | Value      | Limit   | Result |
|                                                                          |  |  |  | 17.636 MHz | 500 kHz | Pass   |

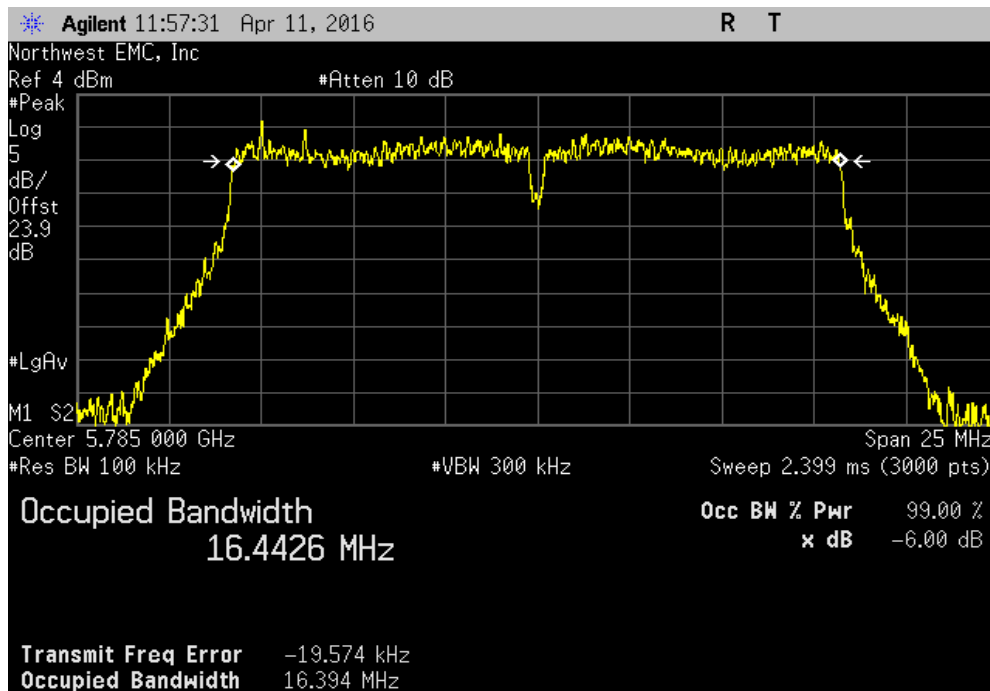


# OCCUPIED BANDWIDTH

| SISO, Chain A, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(ac) MCS8 |  |  |  |            |         |        |
|--------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                          |  |  |  | Value      | Limit   | Result |
|                                                                          |  |  |  |            | (>)     |        |
|                                                                          |  |  |  | 17.539 MHz | 500 kHz | Pass   |

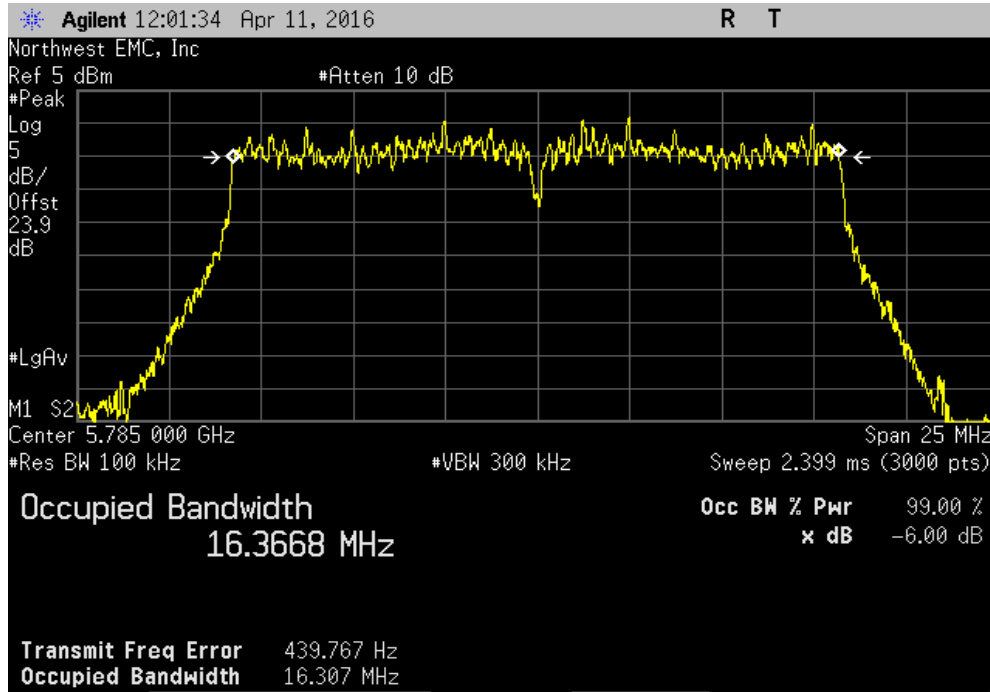


| SISO, Chain A, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(a) 6 Mbps |  |  |  |            |         |        |
|---------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                           |  |  |  | Value      | Limit   | Result |
|                                                                           |  |  |  |            | (>)     |        |
|                                                                           |  |  |  | 16.394 MHz | 500 kHz | Pass   |

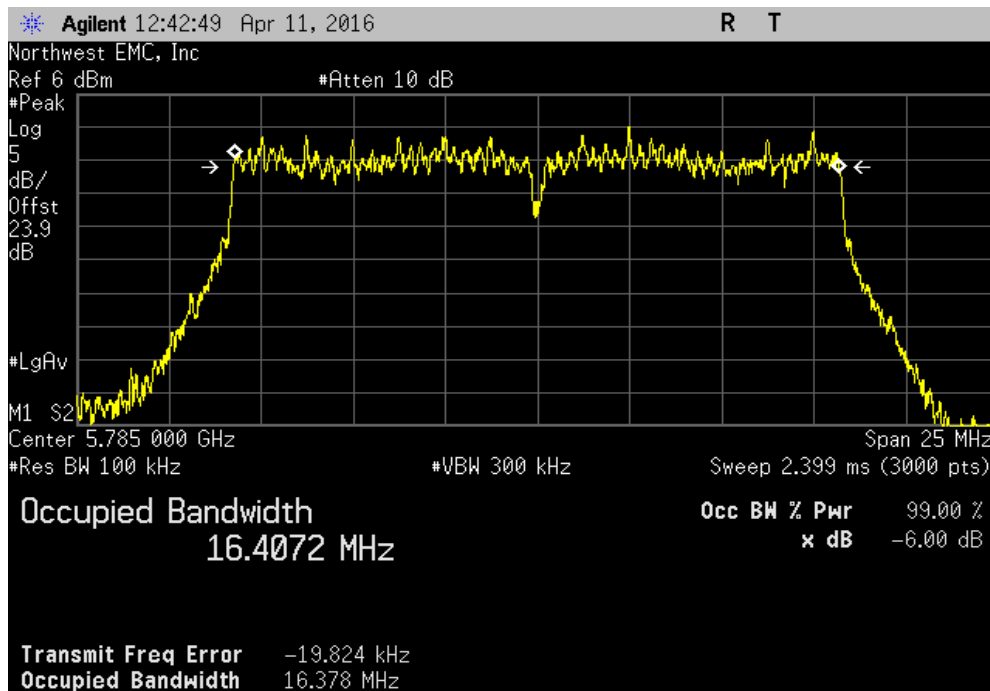


# OCCUPIED BANDWIDTH

| SISO, Chain A, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(a) 36 Mbps |  |  |  |            |         |        |
|----------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                            |  |  |  | Value      | Limit   | Result |
|                                                                            |  |  |  | 16.307 MHz | 500 kHz | Pass   |

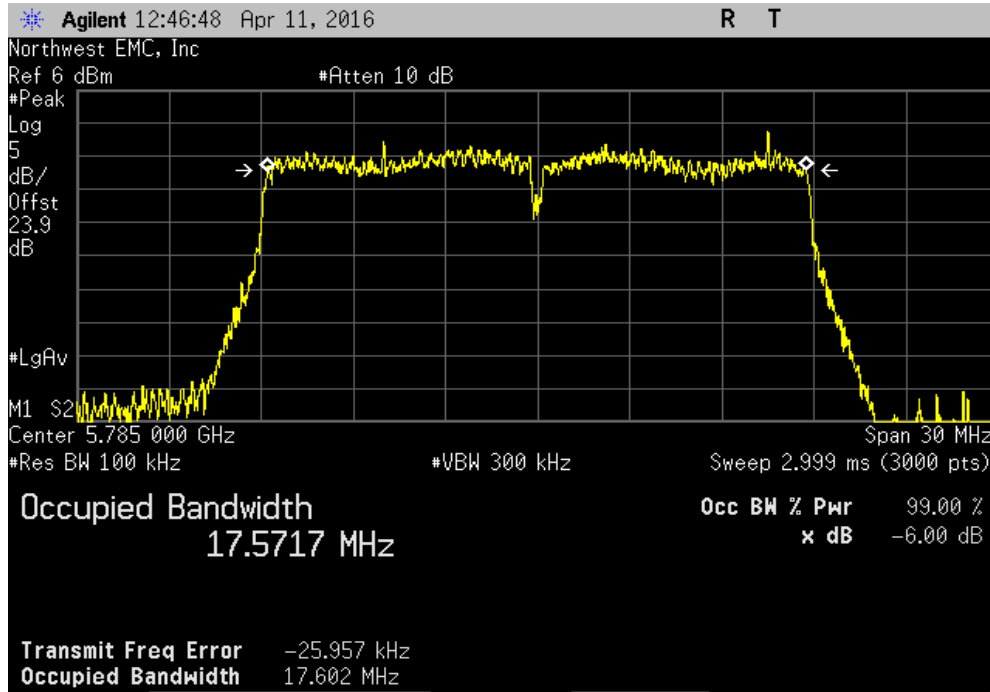


| SISO, Chain A, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(a) 54 Mbps |  |  |  |            |         |        |
|----------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                            |  |  |  | Value      | Limit   | Result |
|                                                                            |  |  |  | 16.378 MHz | 500 kHz | Pass   |

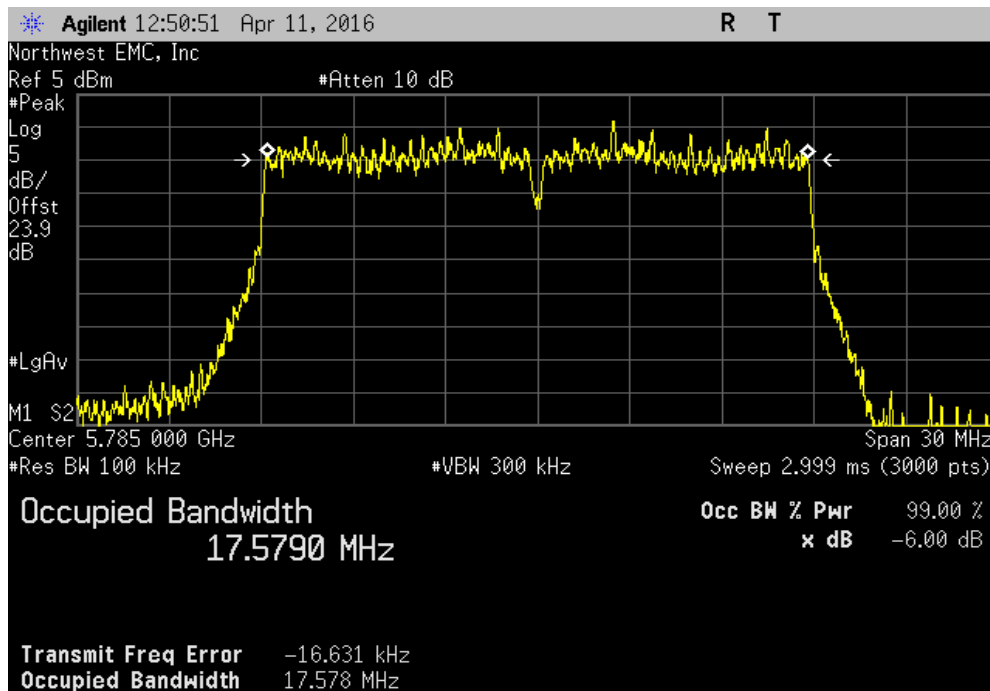


# OCCUPIED BANDWIDTH

| SISO, Chain A, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(n) MCS0 |  |  |  |            |         |        |
|-------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                         |  |  |  | Value      | Limit   | Result |
|                                                                         |  |  |  |            | (>)     |        |
|                                                                         |  |  |  | 17.602 MHz | 500 kHz | Pass   |



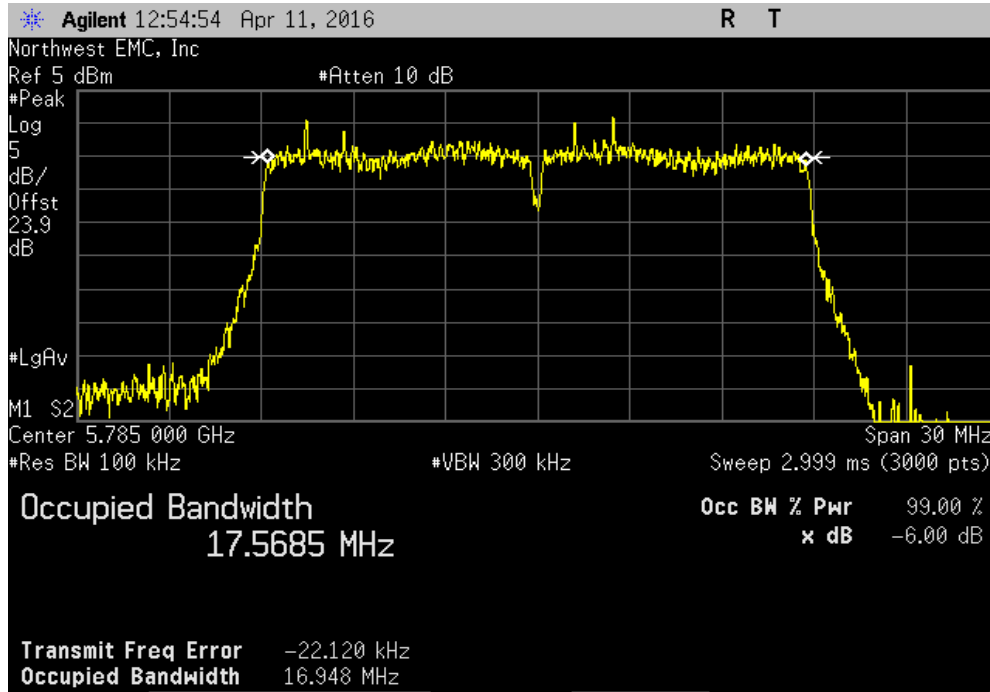
| SISO, Chain A, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(n) MCS7 |  |  |  |            |         |        |
|-------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                         |  |  |  | Value      | Limit   | Result |
|                                                                         |  |  |  |            | (>)     |        |
|                                                                         |  |  |  | 17.578 MHz | 500 kHz | Pass   |



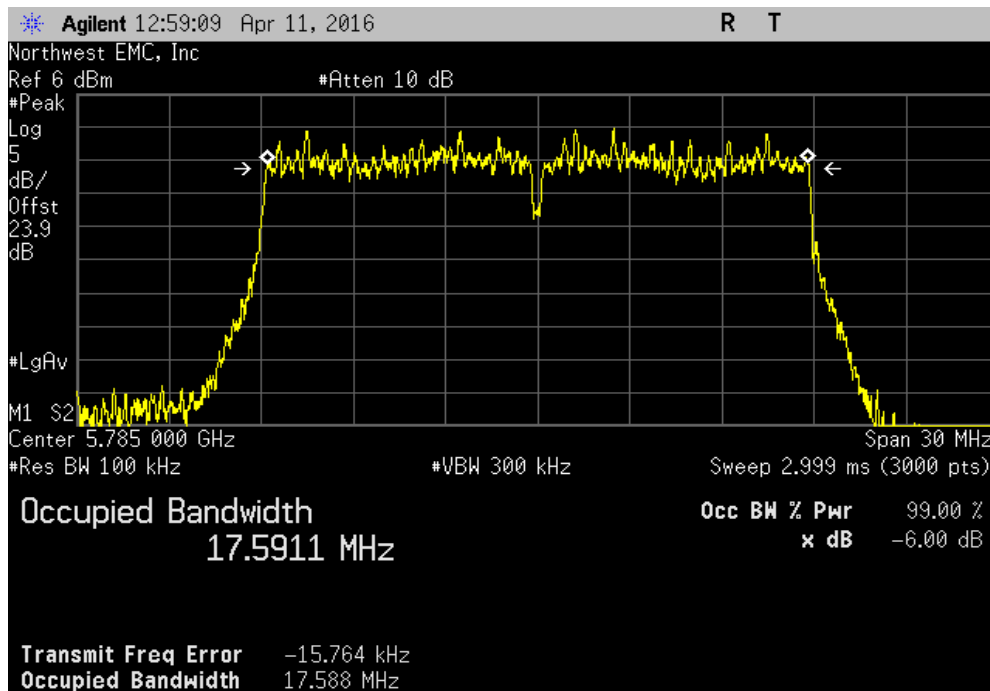


# OCCUPIED BANDWIDTH

| SISO, Chain A, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(ac) MCS0 |  |  |  |            |         |        |
|--------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                          |  |  |  | Value      | Limit   | Result |
|                                                                          |  |  |  |            | (>)     |        |
|                                                                          |  |  |  | 16.948 MHz | 500 kHz | Pass   |

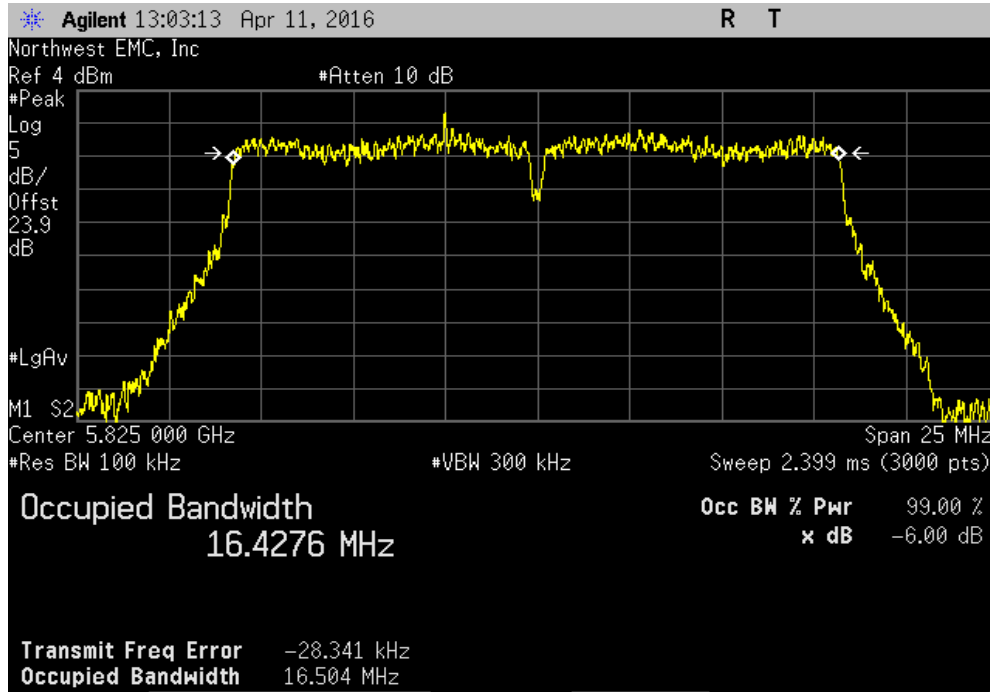


| SISO, Chain A, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(ac) MCS8 |  |  |  |            |         |        |
|--------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                          |  |  |  | Value      | Limit   | Result |
|                                                                          |  |  |  |            | (>)     |        |
|                                                                          |  |  |  | 17.588 MHz | 500 kHz | Pass   |

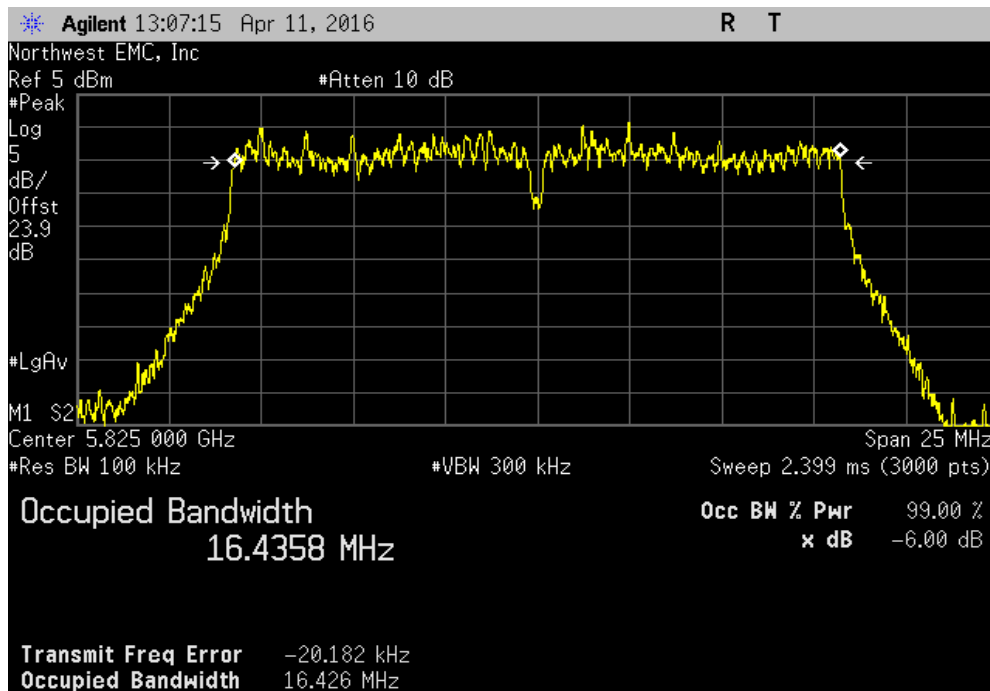


# OCCUPIED BANDWIDTH

| SISO, Chain A, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(a) 6 Mbps |  |  |  |            |         |        |
|----------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                            |  |  |  | Value      | Limit   | Result |
|                                                                            |  |  |  | 16.504 MHz | 500 kHz | Pass   |

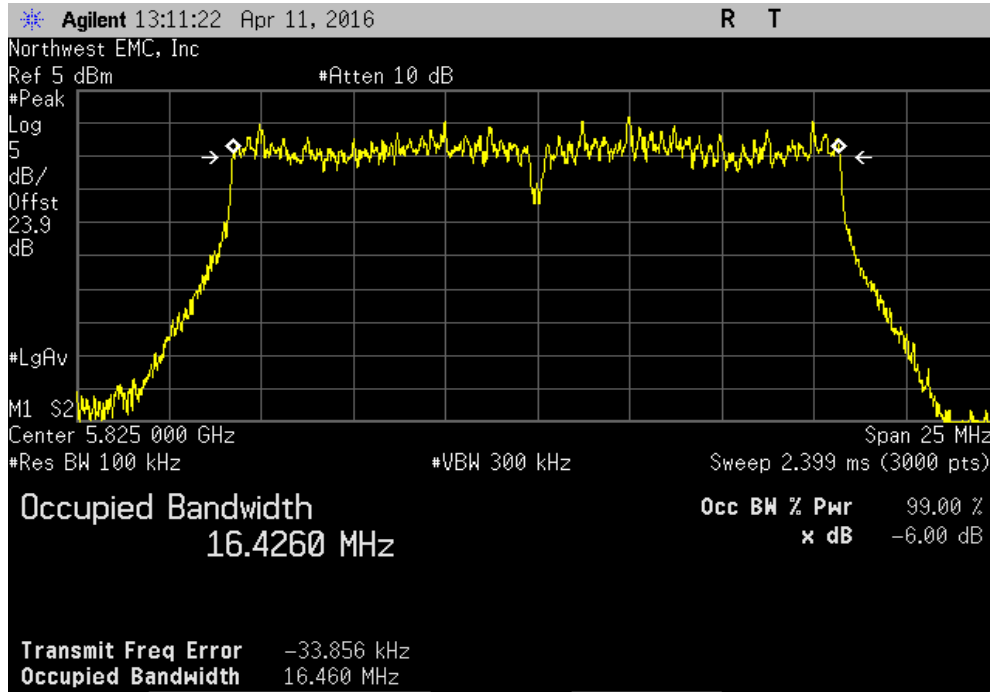


| SISO, Chain A, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(a) 36 Mbps |  |  |  |            |         |        |
|-----------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                             |  |  |  | Value      | Limit   | Result |
|                                                                             |  |  |  | 16.426 MHz | 500 kHz | Pass   |

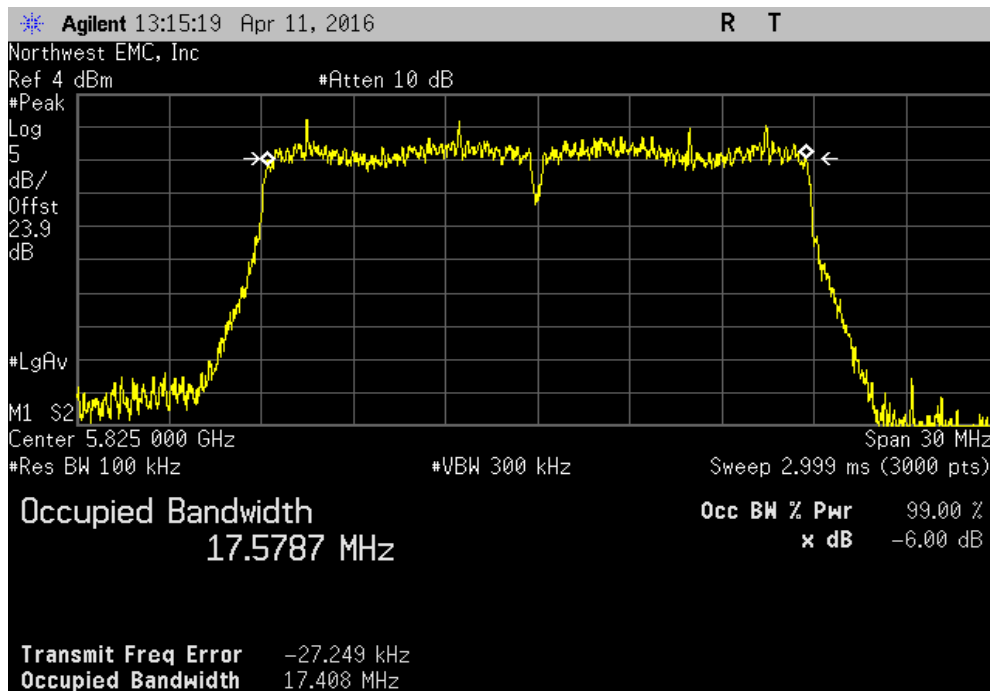


# OCCUPIED BANDWIDTH

| SISO, Chain A, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(a) 54 Mbps |  |  |  |           |         |        |
|-----------------------------------------------------------------------------|--|--|--|-----------|---------|--------|
|                                                                             |  |  |  | Value     | Limit   | Result |
|                                                                             |  |  |  | 16.46 MHz | 500 kHz | Pass   |

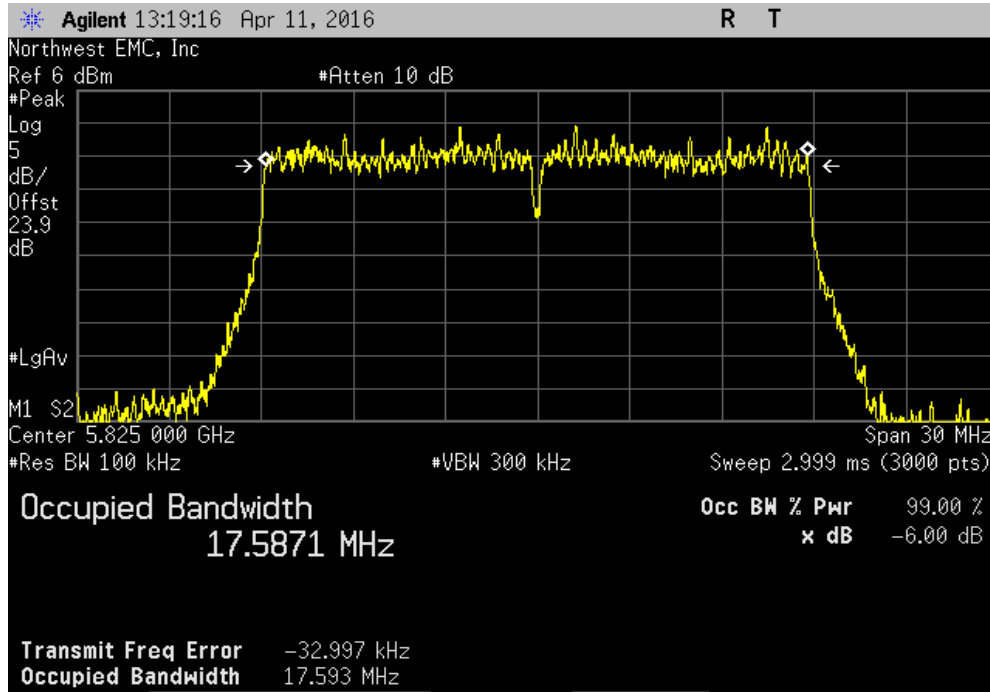


| SISO, Chain A, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(n) MCS0 |  |  |  |            |         |        |
|--------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                          |  |  |  | Value      | Limit   | Result |
|                                                                          |  |  |  | 17.408 MHz | 500 kHz | Pass   |

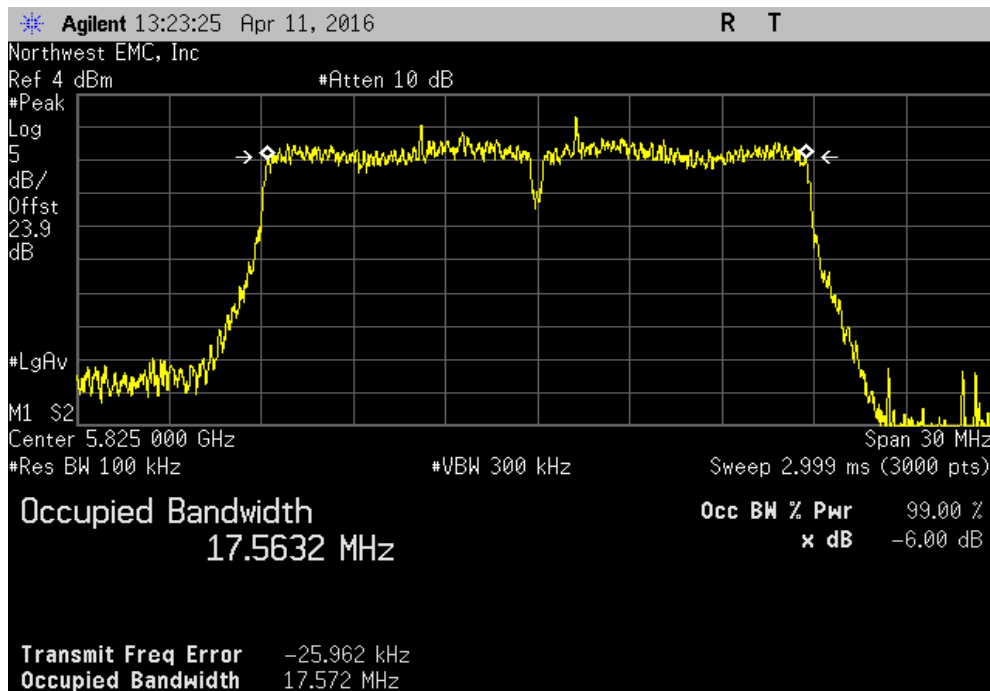


# OCCUPIED BANDWIDTH

| SISO, Chain A, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(n) MCS7 |  |  |  |            |             |        |
|--------------------------------------------------------------------------|--|--|--|------------|-------------|--------|
|                                                                          |  |  |  | Value      | Limit       | Result |
|                                                                          |  |  |  | 17.593 MHz | (>) 500 kHz | Pass   |

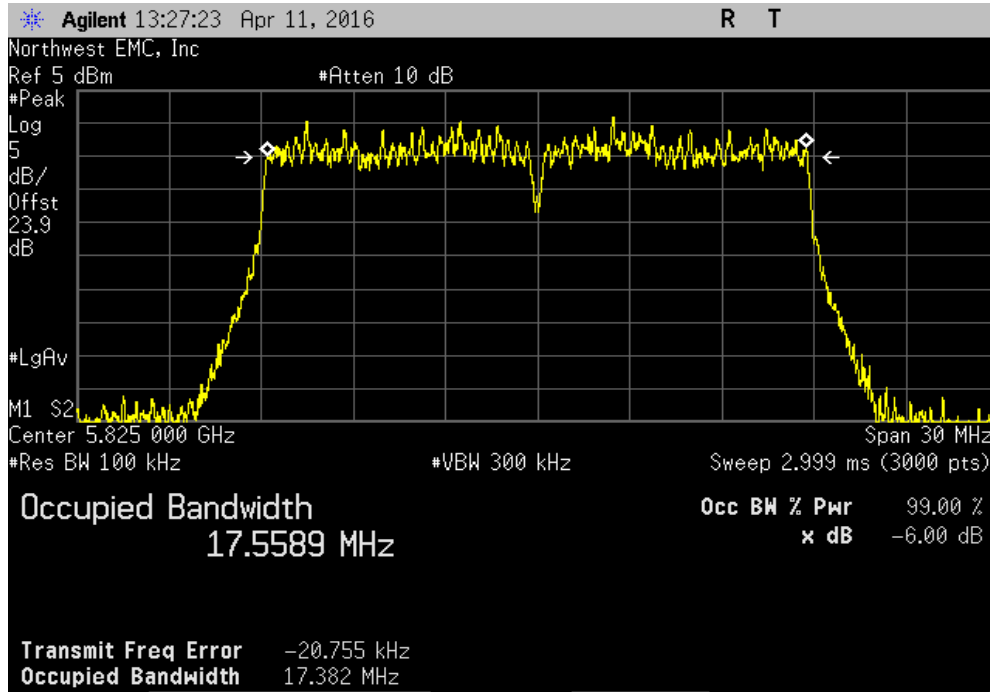


| SISO, Chain A, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(ac) MCS0 |  |  |  |            |             |        |
|---------------------------------------------------------------------------|--|--|--|------------|-------------|--------|
|                                                                           |  |  |  | Value      | Limit       | Result |
|                                                                           |  |  |  | 17.572 MHz | (>) 500 kHz | Pass   |

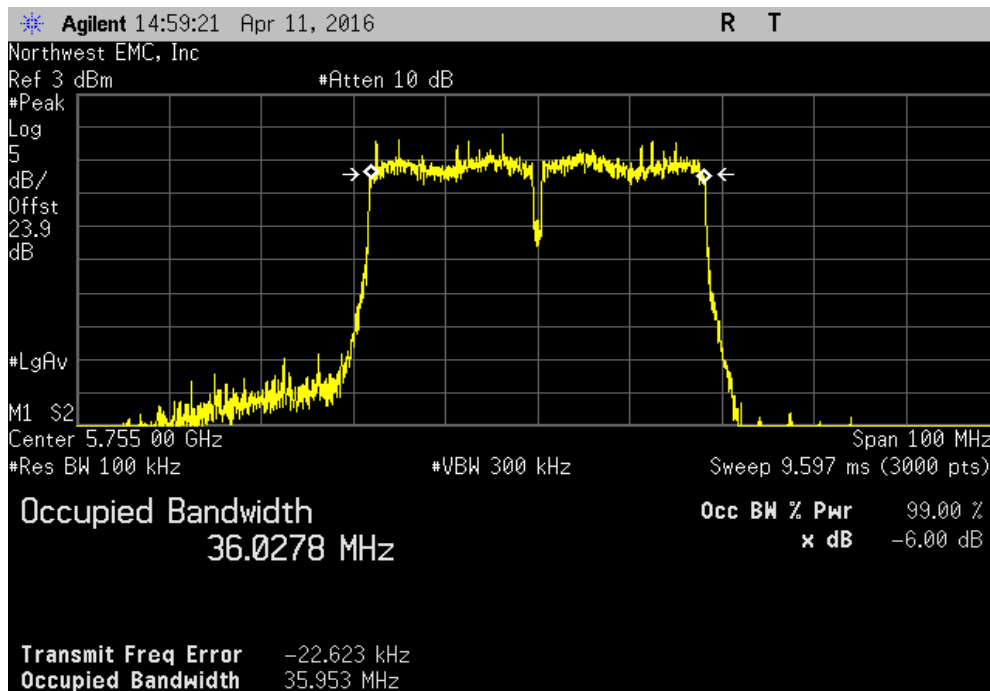


# OCCUPIED BANDWIDTH

| SISO, Chain A, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(ac) MCS8 |  |  |  |            |         |        |
|---------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                           |  |  |  | Value      | Limit   | Result |
|                                                                           |  |  |  |            | (>)     |        |
|                                                                           |  |  |  | 17.382 MHz | 500 kHz | Pass   |

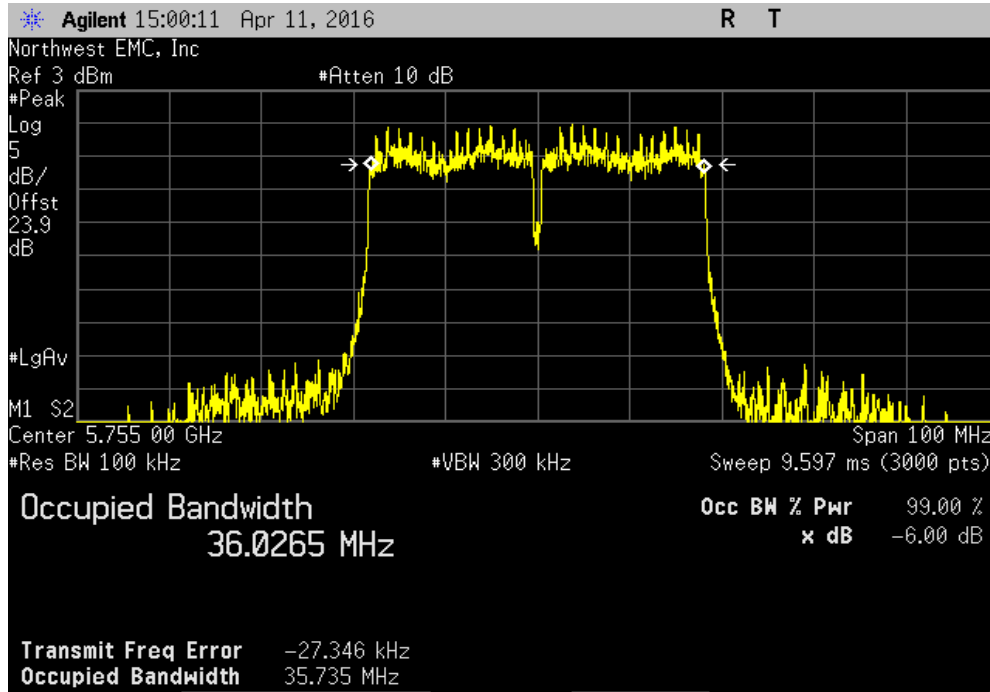


| SISO, Chain A, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(n) MCS0 |  |  |  |            |         |        |
|-----------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                             |  |  |  | Value      | Limit   | Result |
|                                                                             |  |  |  |            | (>)     |        |
|                                                                             |  |  |  | 35.953 MHz | 500 kHz | Pass   |

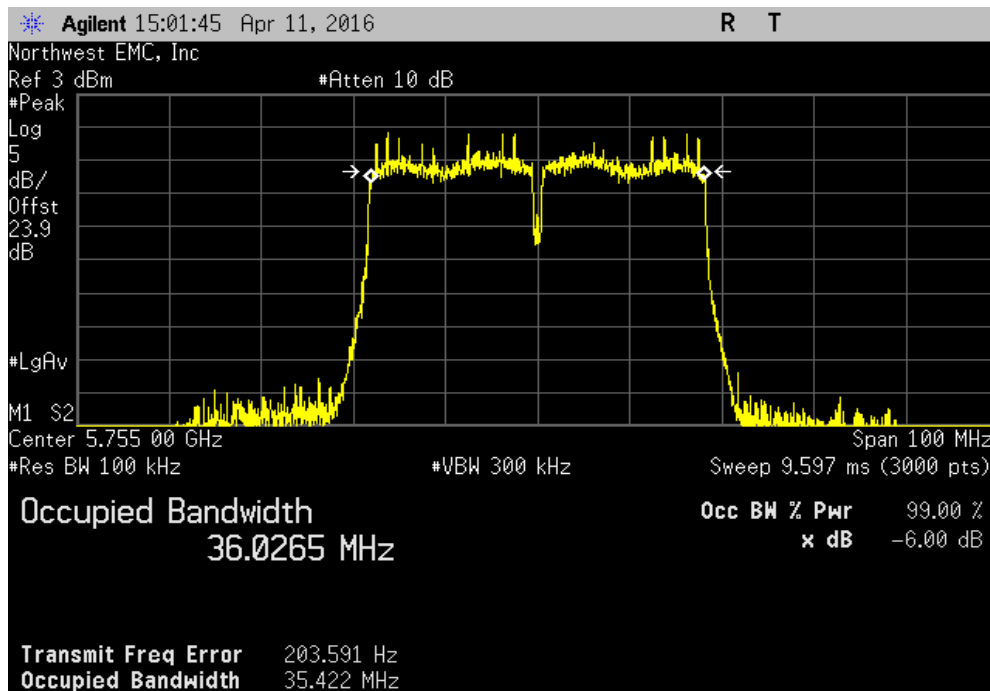


# OCCUPIED BANDWIDTH

| SISO, Chain A, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(n) MCS7 |  |  |  |            |         |        |
|-----------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                             |  |  |  | Value      | Limit   | Result |
|                                                                             |  |  |  | 35.735 MHz | 500 kHz | Pass   |

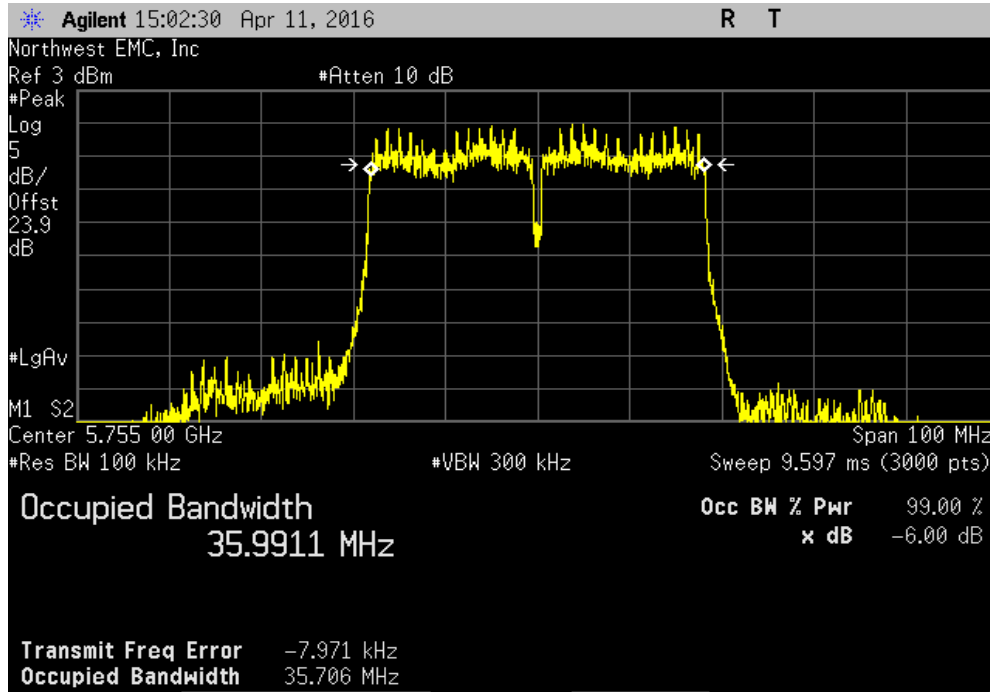


| SISO, Chain A, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(ac) MCS0 |  |  |  |            |         |        |
|------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                              |  |  |  | Value      | Limit   | Result |
|                                                                              |  |  |  | 35.422 MHz | 500 kHz | Pass   |

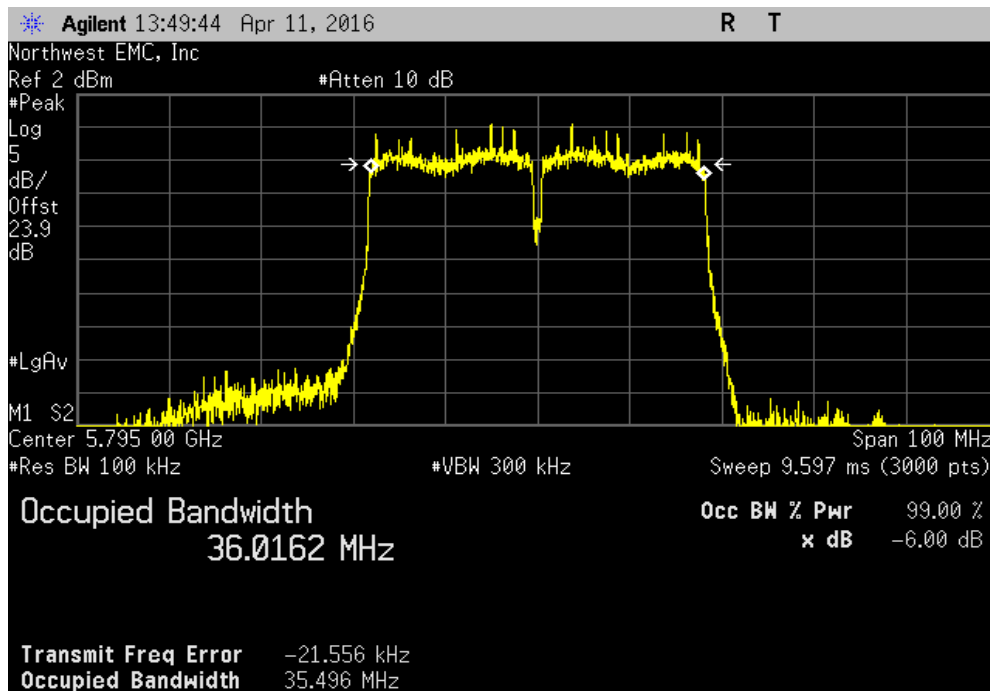


# OCCUPIED BANDWIDTH

| SISO, Chain A, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(ac) MCS9 |  |  |  |            |         |        |
|------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                              |  |  |  | Value      | Limit   | Result |
|                                                                              |  |  |  |            | (>)     |        |
|                                                                              |  |  |  | 35.706 MHz | 500 kHz | Pass   |

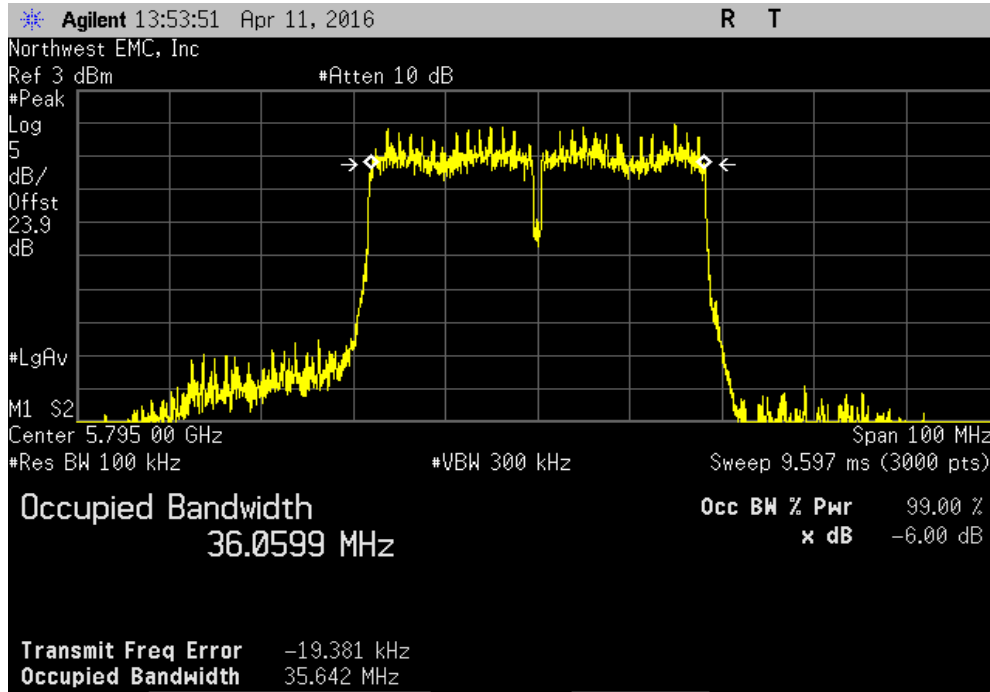


| SISO, Chain A, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(n) MCS0 |  |  |  |            |         |        |
|------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                              |  |  |  | Value      | Limit   | Result |
|                                                                              |  |  |  |            | (>)     |        |
|                                                                              |  |  |  | 35.496 MHz | 500 kHz | Pass   |

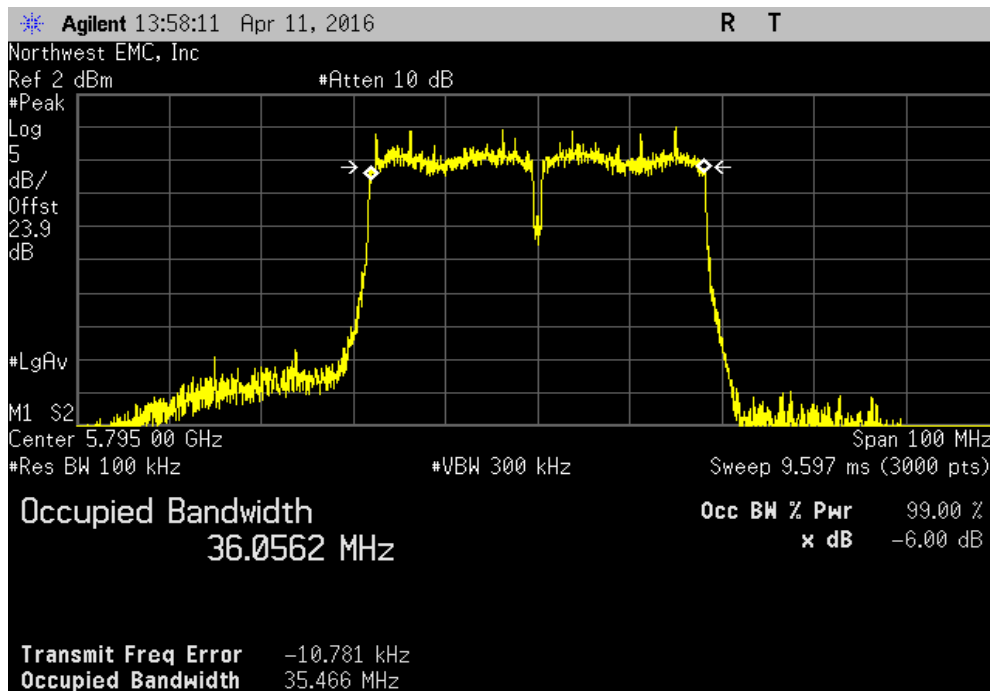


# OCCUPIED BANDWIDTH

| SISO, Chain A, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(n) MCS7 |  |  |  |            |         |        |
|------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                              |  |  |  | Value      | Limit   | Result |
|                                                                              |  |  |  |            | (>)     |        |
|                                                                              |  |  |  | 35.642 MHz | 500 kHz | Pass   |



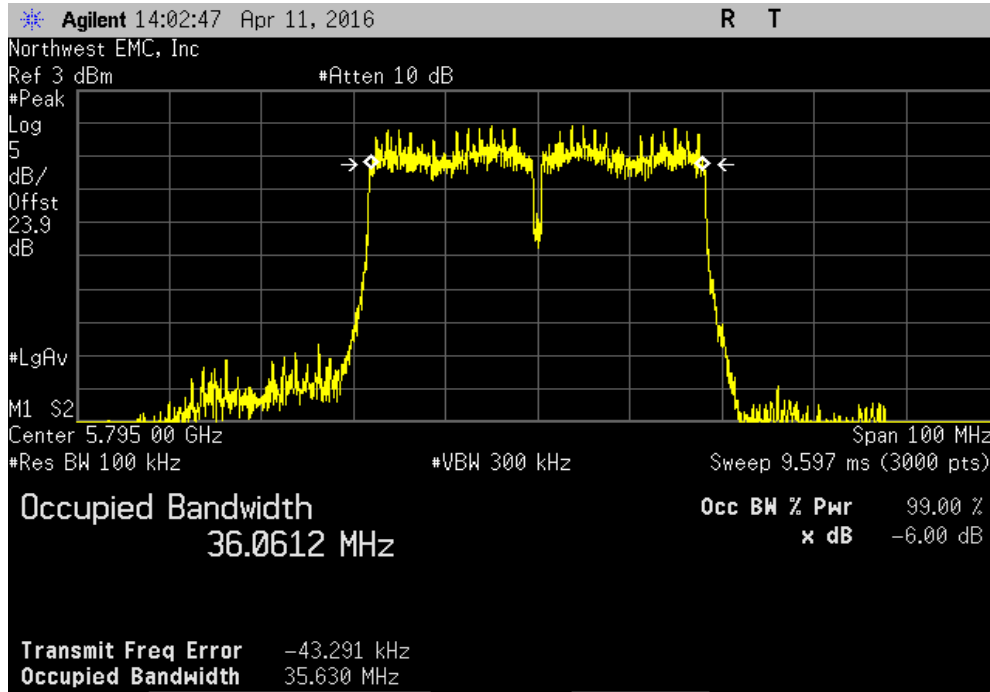
| SISO, Chain A, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(ac) MCS0 |  |  |  |            |         |        |
|-------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                               |  |  |  | Value      | Limit   | Result |
|                                                                               |  |  |  |            | (>)     |        |
|                                                                               |  |  |  | 35.466 MHz | 500 kHz | Pass   |



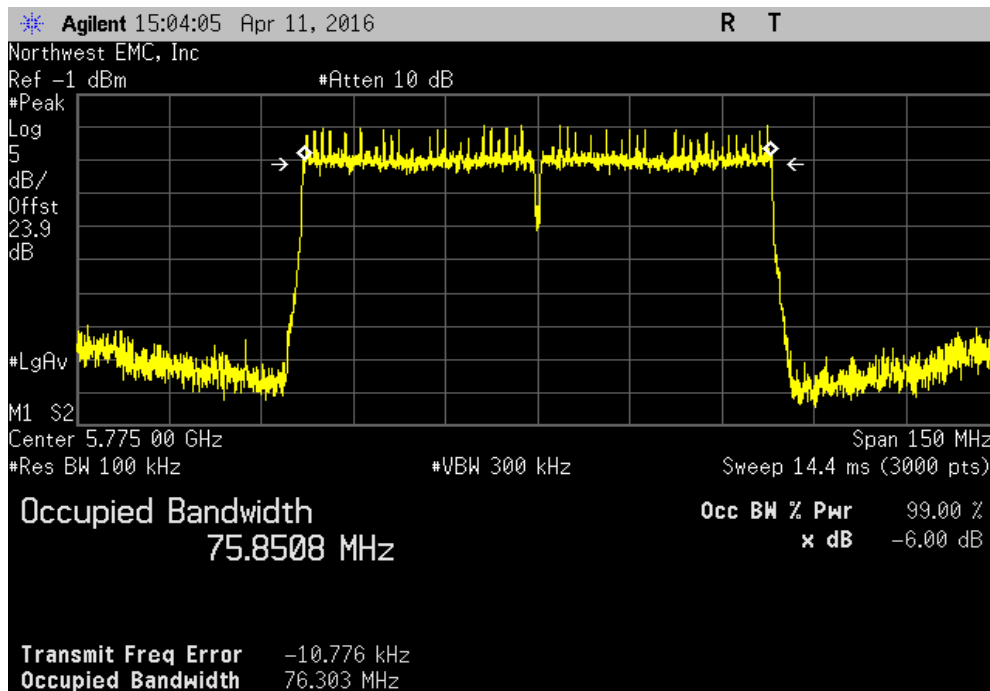


# OCCUPIED BANDWIDTH

| SISO, Chain A, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(ac) MCS9 |  |  |  |           |         |        |
|-------------------------------------------------------------------------------|--|--|--|-----------|---------|--------|
|                                                                               |  |  |  | Value     | Limit   | Result |
|                                                                               |  |  |  |           | (>)     |        |
|                                                                               |  |  |  | 35.63 MHz | 500 kHz | Pass   |

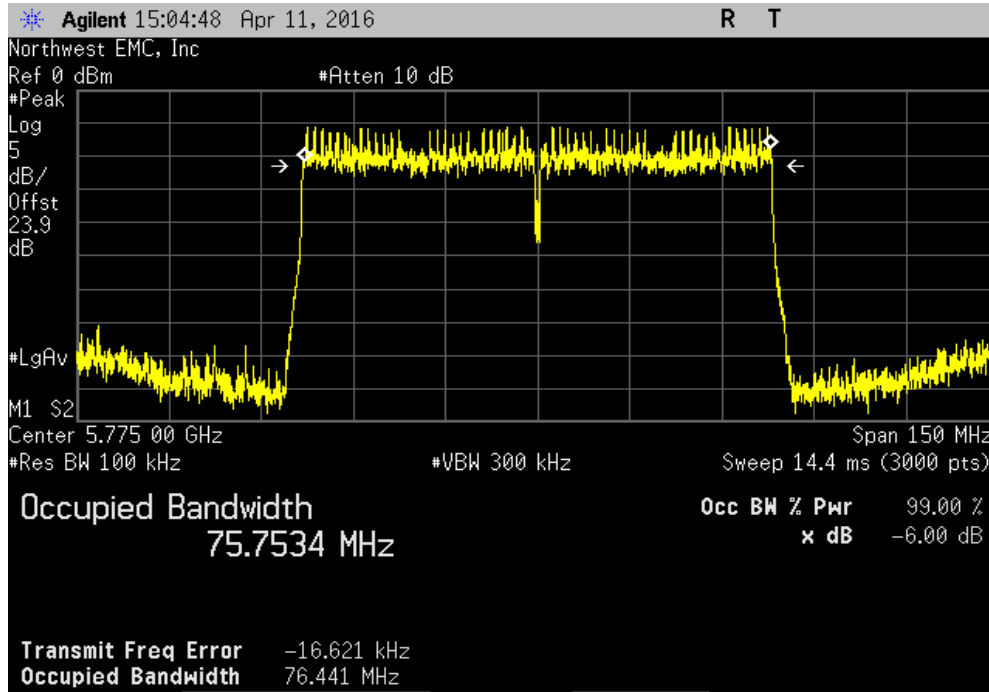


| SISO, Chain A, 80MHz BW, Mid Channel, Ch 149/161 - 5775 MHz, 802.11(ac) MCS9 |  |  |  |            |         |        |
|------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                              |  |  |  | Value      | Limit   | Result |
|                                                                              |  |  |  |            | (>)     |        |
|                                                                              |  |  |  | 76.303 MHz | 500 kHz | Pass   |

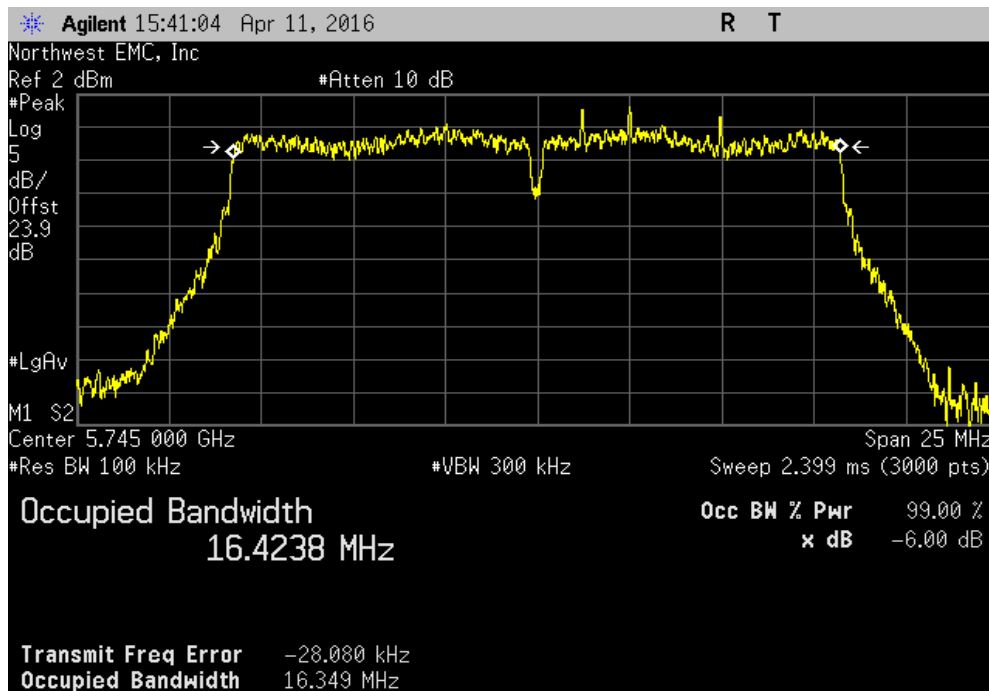


# OCCUPIED BANDWIDTH

| SISO, Chain A, 80MHz BW, Mid Channel, Ch 149/161 - 5775 MHz, 802.11(ac) MCS9 |  |  |  |            |         |        |
|------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                              |  |  |  | Value      | Limit   | Result |
|                                                                              |  |  |  | 76.441 MHz | 500 kHz | Pass   |

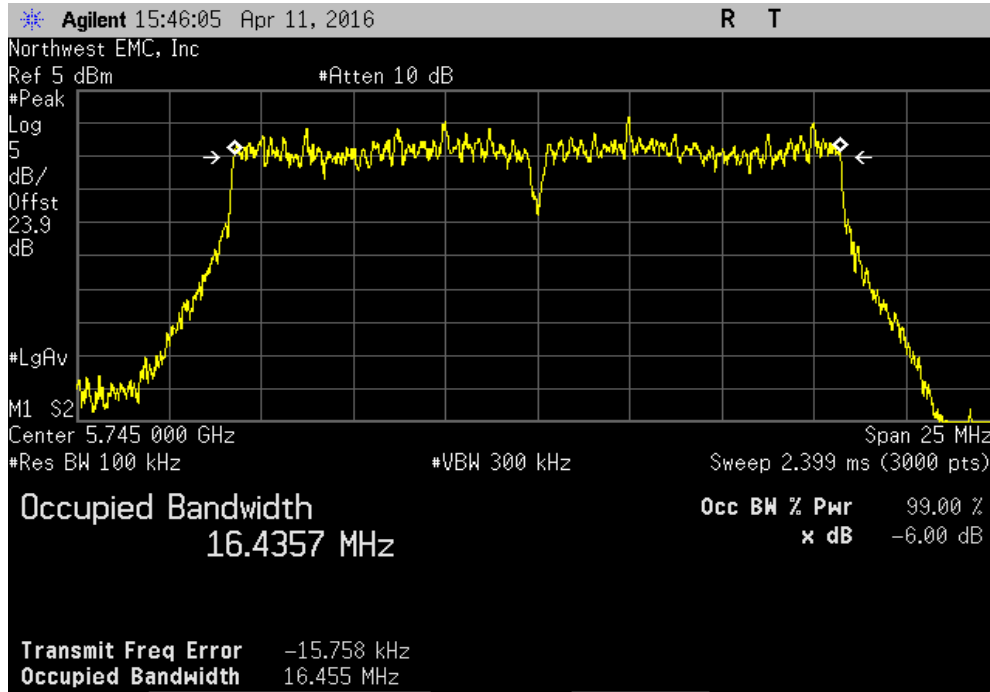


| SISO, Chain B, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(a) 6 Mbps |  |  |  |            |         |        |
|---------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                           |  |  |  | Value      | Limit   | Result |
|                                                                           |  |  |  | 16.349 MHz | 500 kHz | Pass   |

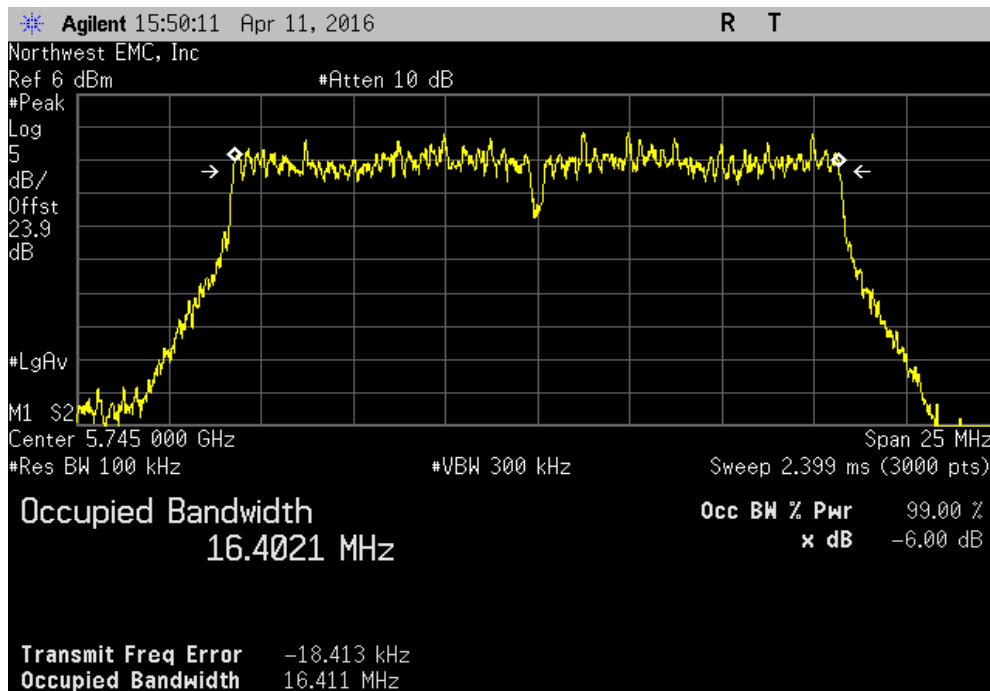


# OCCUPIED BANDWIDTH

| SISO, Chain B, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(a) 36 Mbps |  |  |  |            |         |        |
|----------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                            |  |  |  | Value      | Limit   | Result |
|                                                                            |  |  |  | 16.455 MHz | 500 kHz | Pass   |

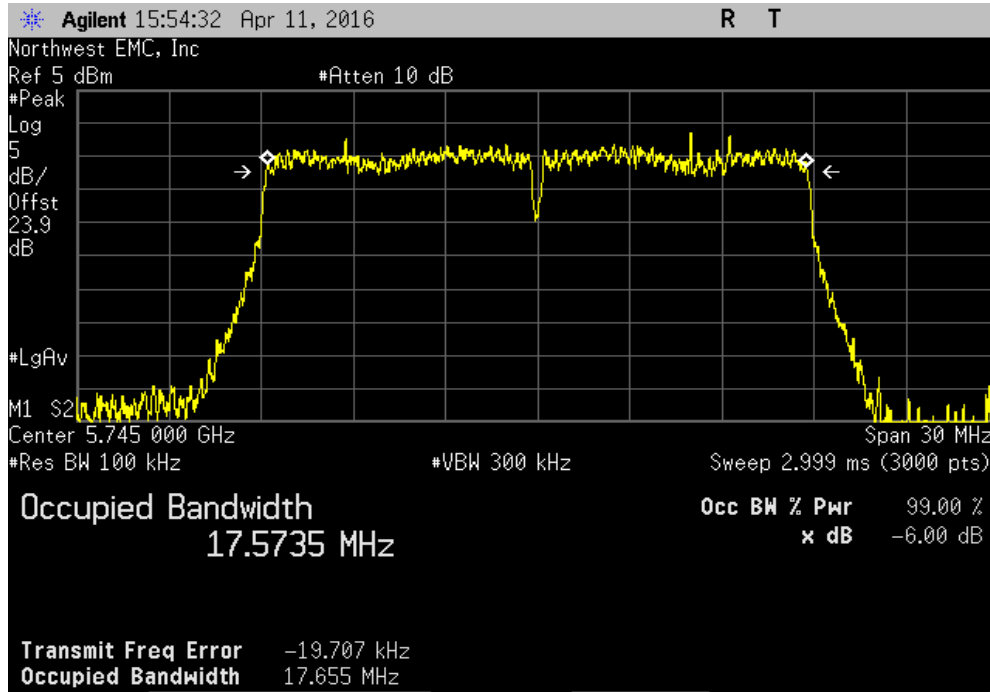


| SISO, Chain B, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(a) 54 Mbps |  |  |  |            |         |        |
|----------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                            |  |  |  | Value      | Limit   | Result |
|                                                                            |  |  |  | 16.411 MHz | 500 kHz | Pass   |

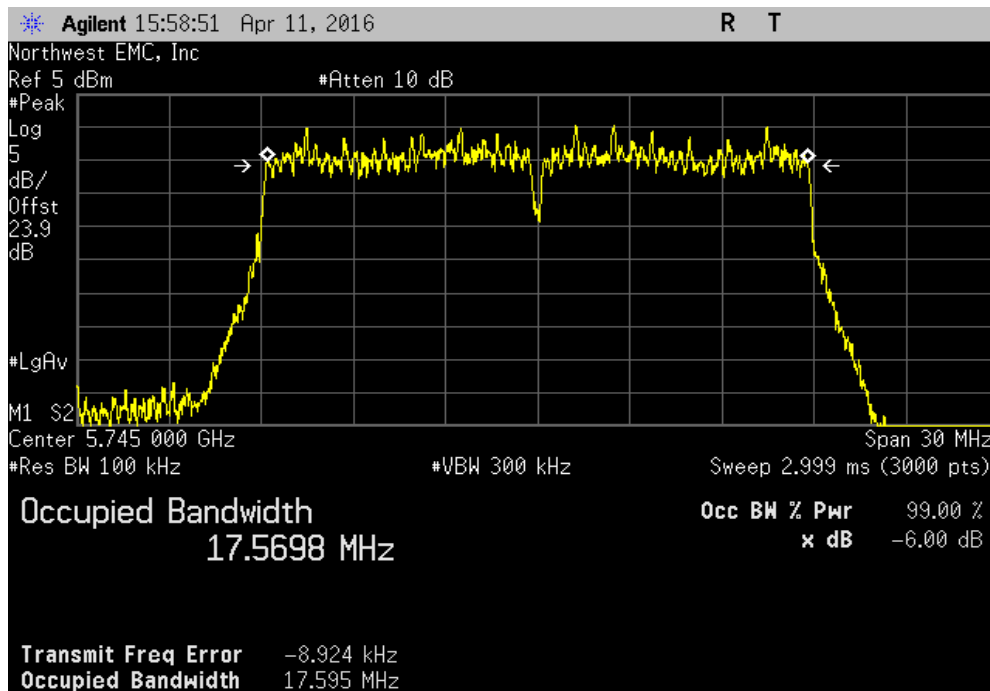


# OCCUPIED BANDWIDTH

| SISO, Chain B, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(n) MCS0 |  |  |  |            |         |        |
|-------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                         |  |  |  | Value      | Limit   | Result |
|                                                                         |  |  |  |            | (>)     |        |
|                                                                         |  |  |  | 17.655 MHz | 500 kHz | Pass   |

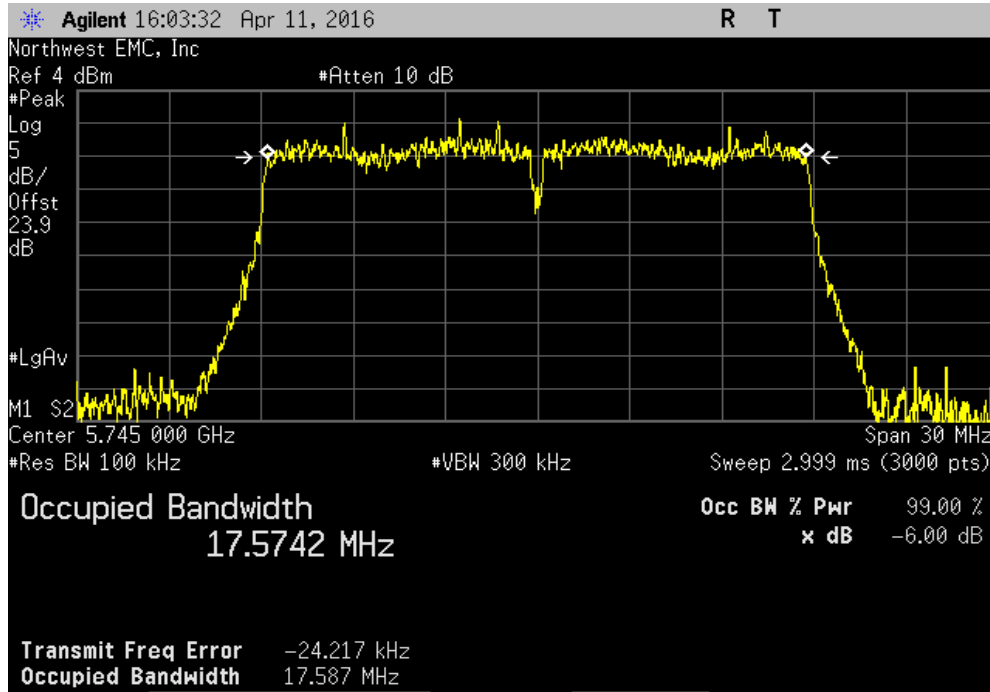


| SISO, Chain B, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(n) MCS7 |  |  |  |            |         |        |
|-------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                         |  |  |  | Value      | Limit   | Result |
|                                                                         |  |  |  |            | (>)     |        |
|                                                                         |  |  |  | 17.595 MHz | 500 kHz | Pass   |

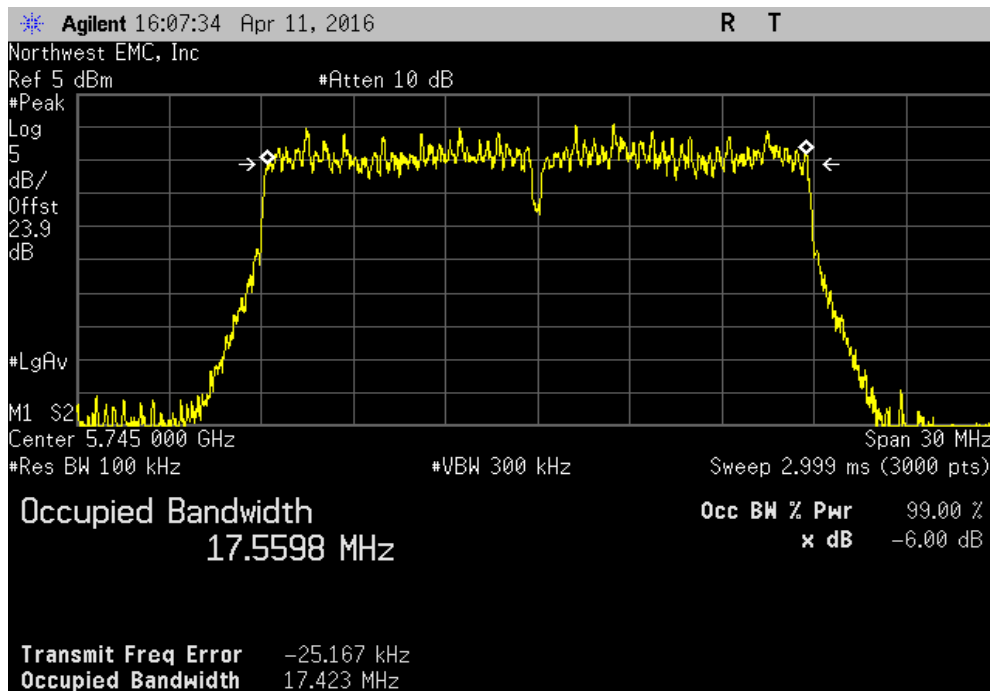


# OCCUPIED BANDWIDTH

| SISO, Chain B, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(ac) MCS0 |  |  |  |            |         |        |
|--------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                          |  |  |  | Value      | Limit   | Result |
|                                                                          |  |  |  | 17.587 MHz | 500 kHz | Pass   |

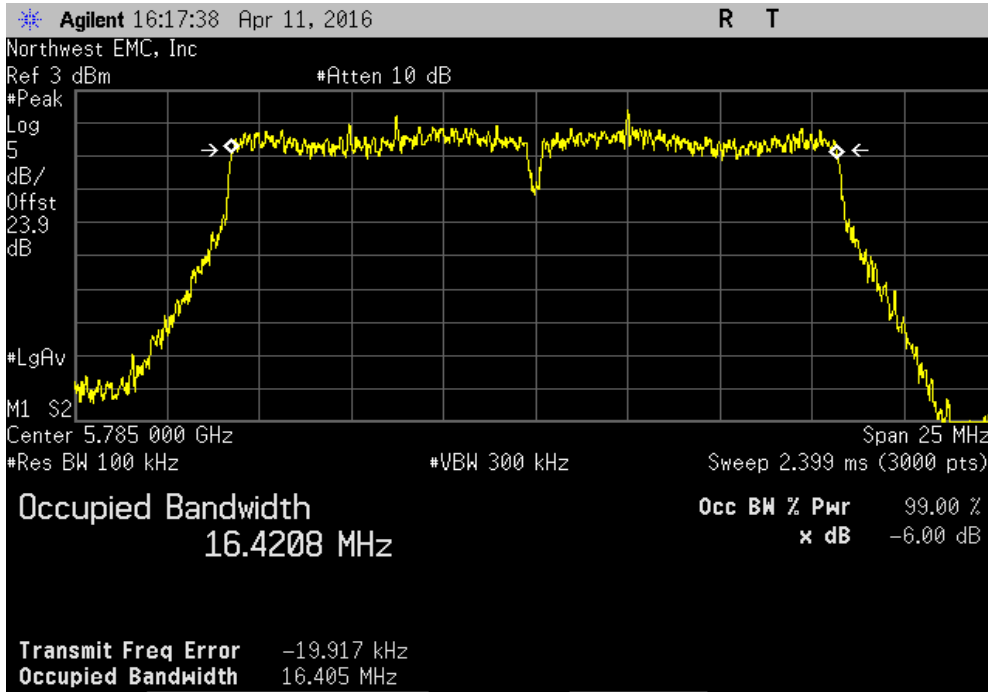


| SISO, Chain B, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(ac) MCS8 |  |  |  |            |         |        |
|--------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                          |  |  |  | Value      | Limit   | Result |
|                                                                          |  |  |  | 17.423 MHz | 500 kHz | Pass   |

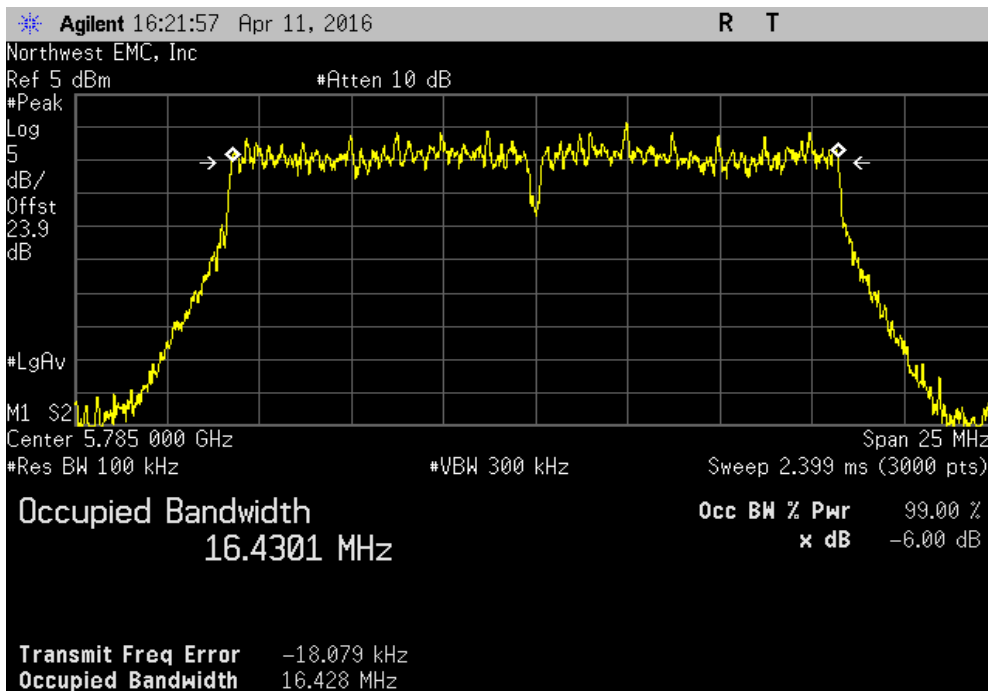


# OCCUPIED BANDWIDTH

| SISO, Chain B, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(a) 6 Mbps |  |  |  |            |         |        |
|---------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                           |  |  |  | Value      | Limit   | Result |
|                                                                           |  |  |  | 16.405 MHz | 500 kHz | Pass   |

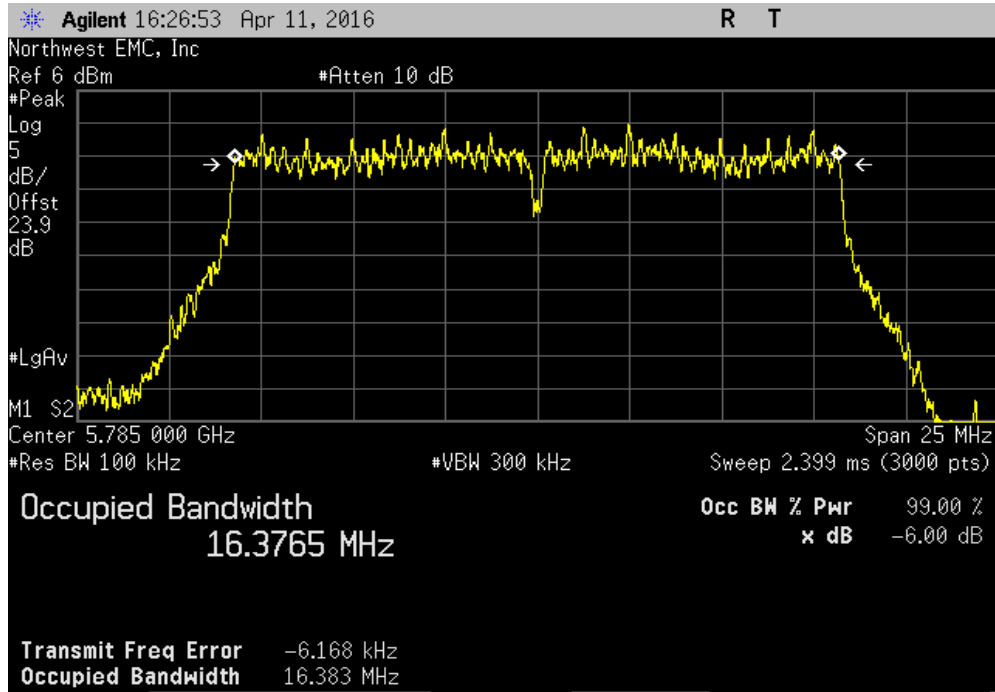


| SISO, Chain B, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(a) 36 Mbps |  |  |  |            |         |        |
|----------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                            |  |  |  | Value      | Limit   | Result |
|                                                                            |  |  |  | 16.428 MHz | 500 kHz | Pass   |

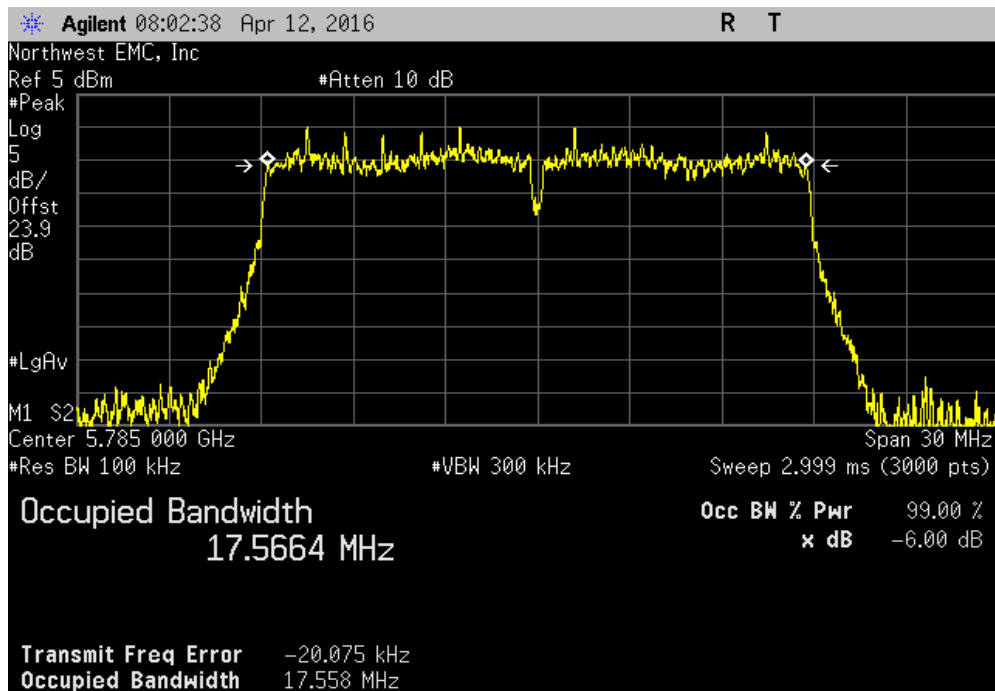


# OCCUPIED BANDWIDTH

| SISO, Chain B, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(a) 54 Mbps |  |  |  |            |         |        |
|----------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                            |  |  |  | Value      | Limit   | Result |
|                                                                            |  |  |  | 16.383 MHz | 500 kHz | Pass   |

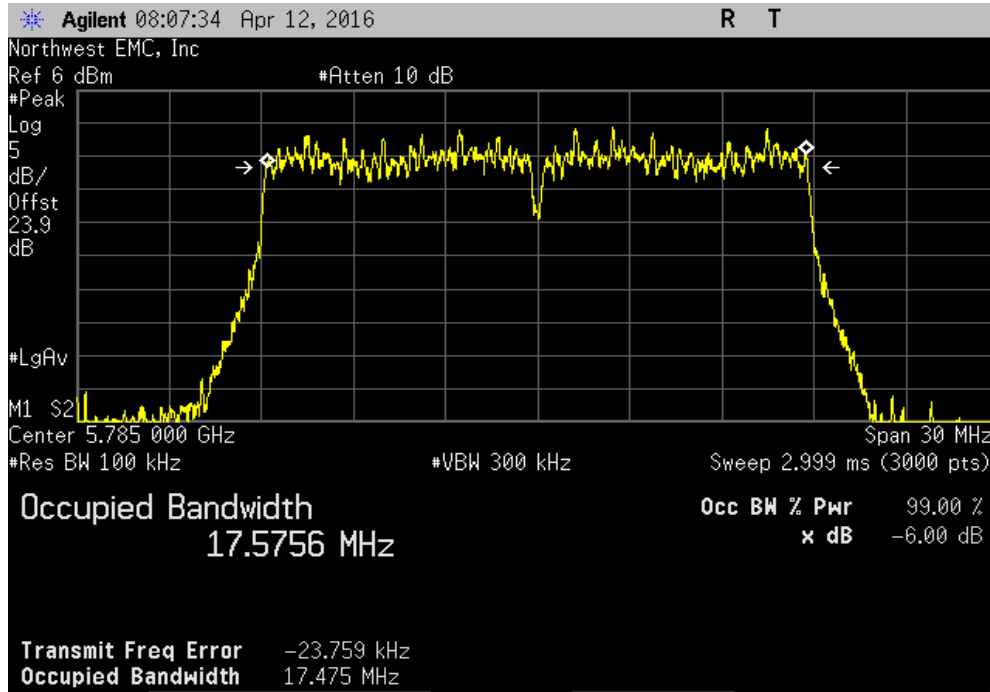


| SISO, Chain B, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(n) MCS0 |  |  |  |            |         |        |
|-------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                         |  |  |  | Value      | Limit   | Result |
|                                                                         |  |  |  | 17.558 MHz | 500 kHz | Pass   |

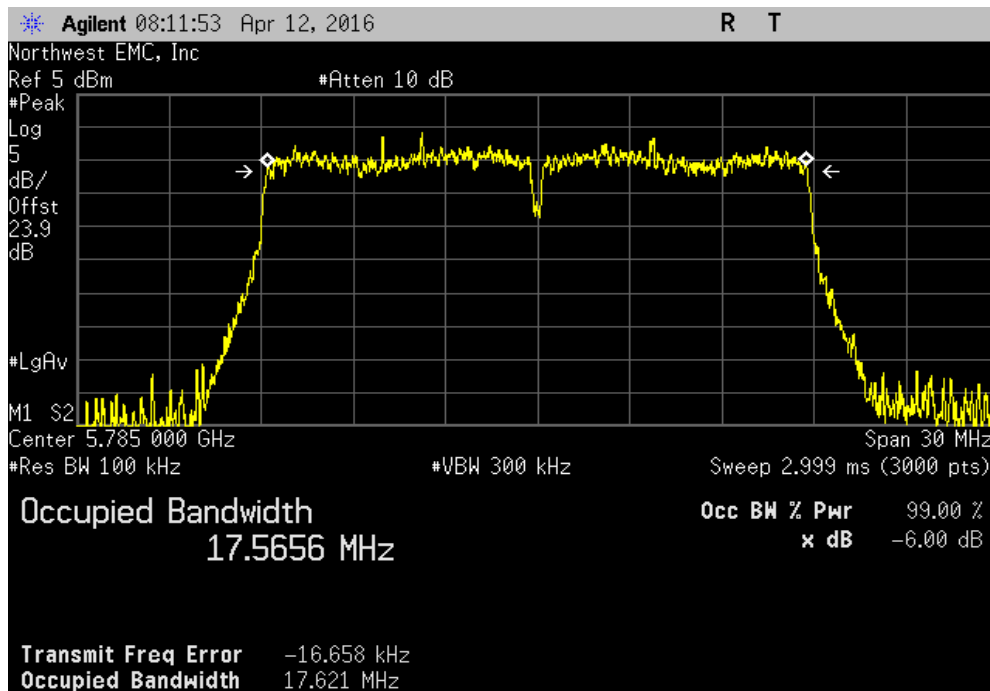


# OCCUPIED BANDWIDTH

| SISO, Chain B, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(n) MCS7 |  |  |  |            |         |        |
|-------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                         |  |  |  | Value      | Limit   | Result |
|                                                                         |  |  |  |            | (>)     |        |
|                                                                         |  |  |  | 17.475 MHz | 500 kHz | Pass   |



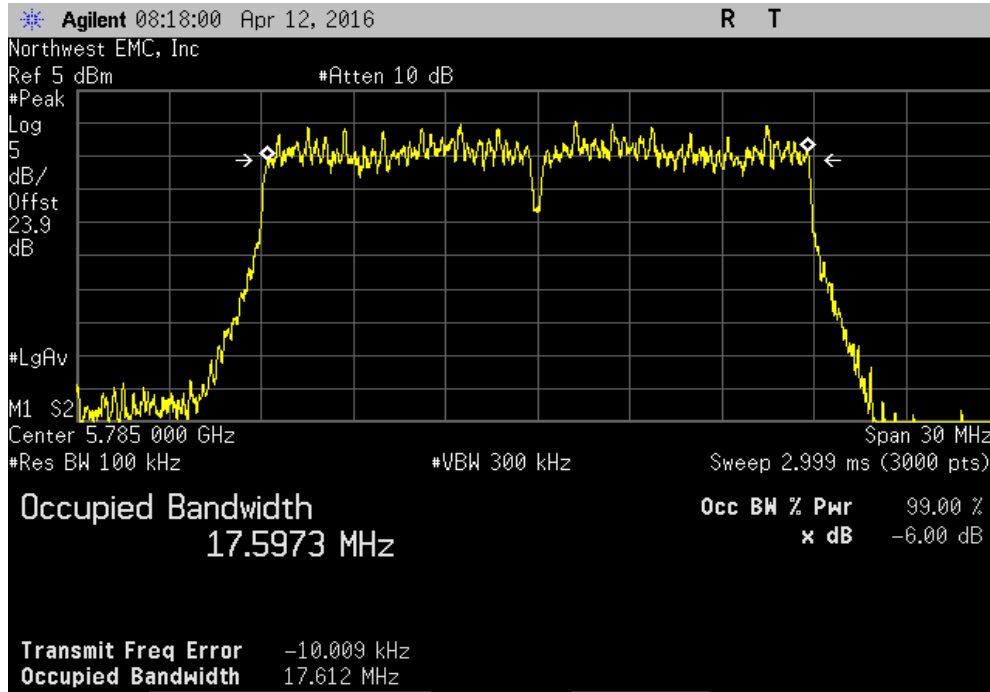
| SISO, Chain B, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(ac) MCS0 |  |  |  |            |         |        |
|--------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                          |  |  |  | Value      | Limit   | Result |
|                                                                          |  |  |  |            | (>)     |        |
|                                                                          |  |  |  | 17.621 MHz | 500 kHz | Pass   |



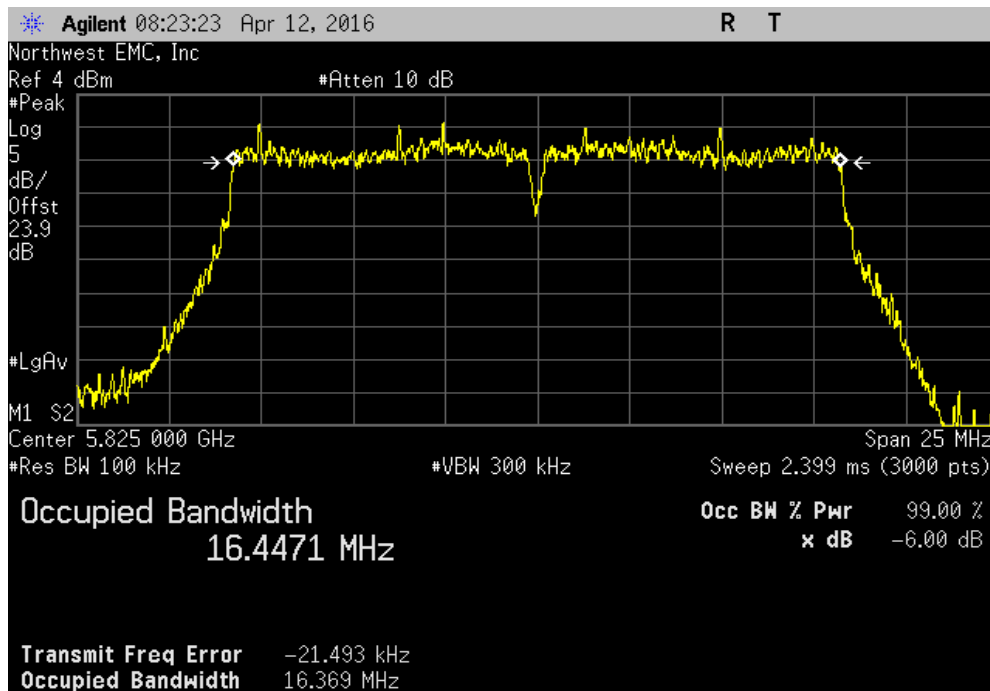


# OCCUPIED BANDWIDTH

| SISO, Chain B, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(ac) MCS8 |  |  |  |            |         |        |
|--------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                          |  |  |  | Value      | Limit   | Result |
|                                                                          |  |  |  | 17.612 MHz | 500 kHz | Pass   |

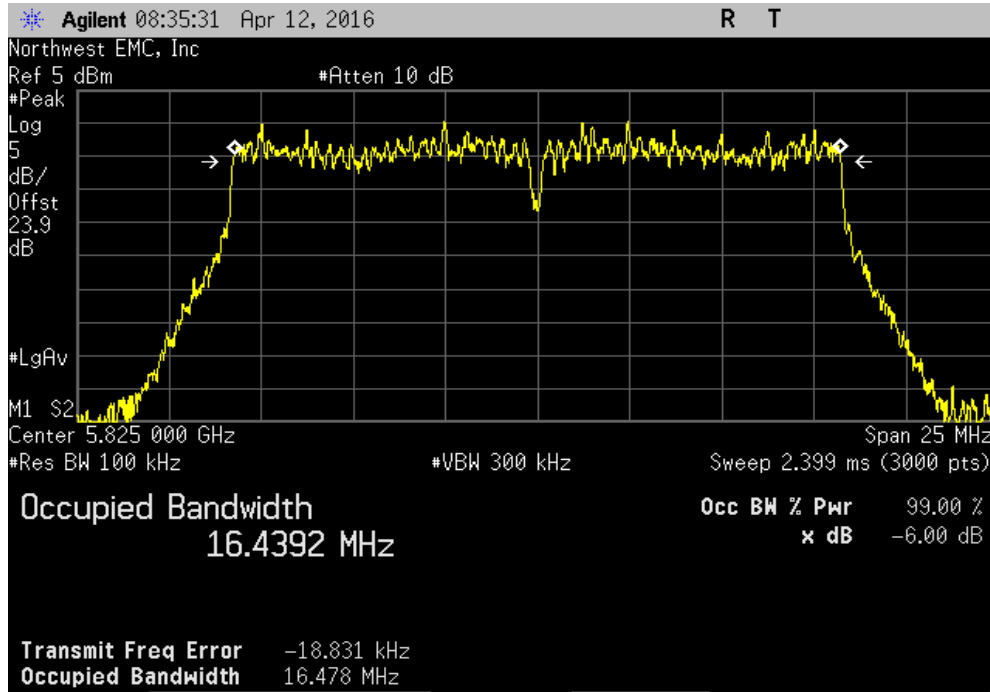


| SISO, Chain B, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(a) 6 Mbps |  |  |  |            |         |        |
|----------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                            |  |  |  | Value      | Limit   | Result |
|                                                                            |  |  |  | 16.369 MHz | 500 kHz | Pass   |

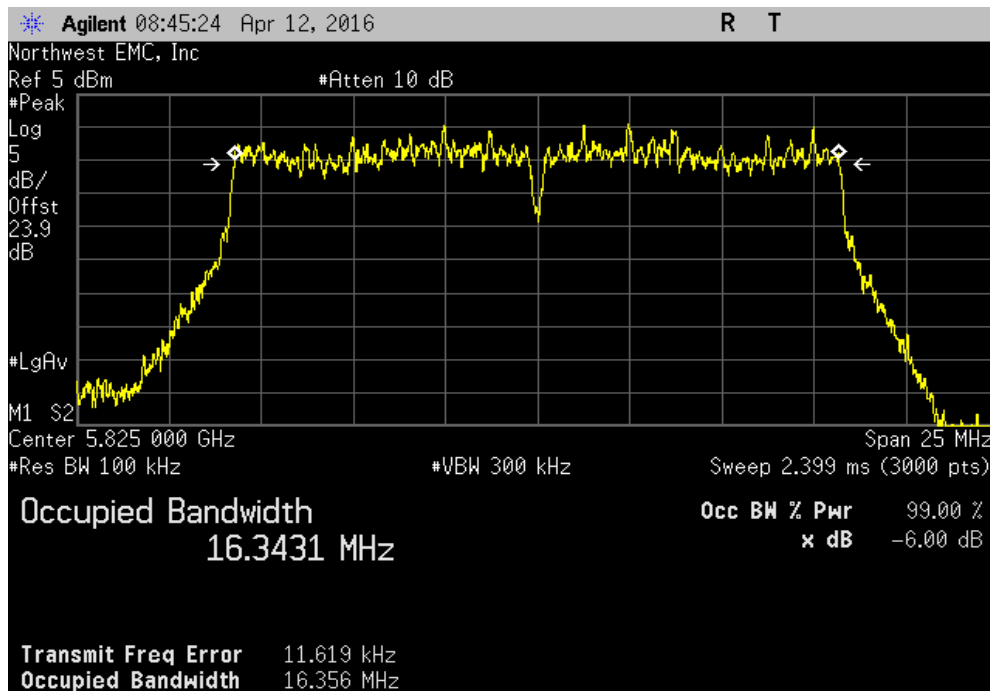


# OCCUPIED BANDWIDTH

| SISO, Chain B, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(a) 36 Mbps |  |  |  |            |         |        |
|-----------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                             |  |  |  | Value      | Limit   | Result |
|                                                                             |  |  |  | 16.478 MHz | 500 kHz | Pass   |

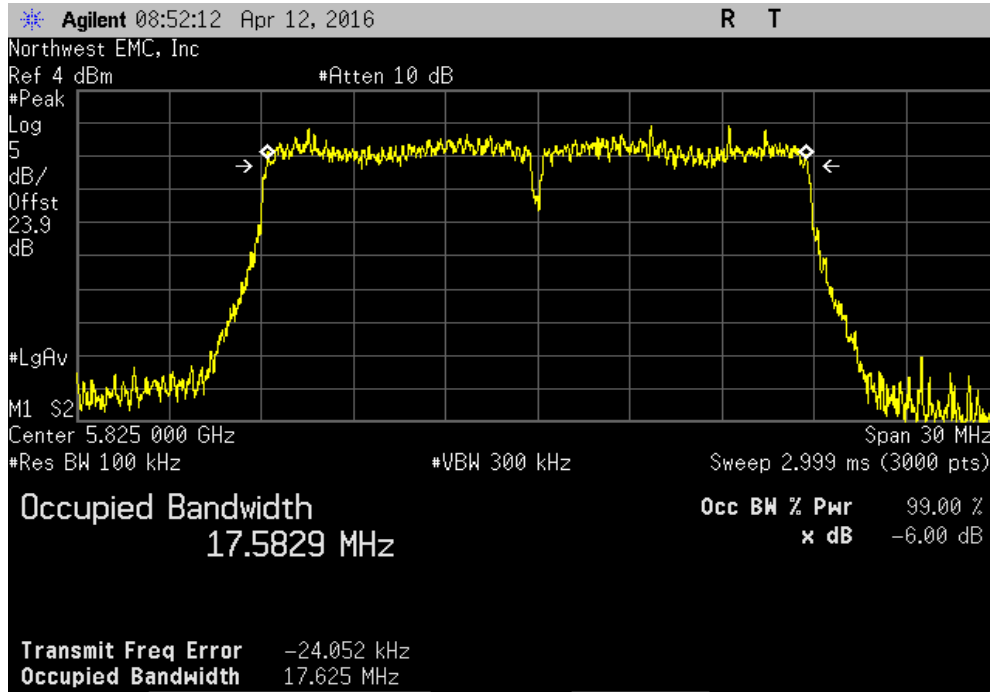


| SISO, Chain B, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(a) 54 Mbps |  |  |  |            |         |        |
|-----------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                             |  |  |  | Value      | Limit   | Result |
|                                                                             |  |  |  | 16.356 MHz | 500 kHz | Pass   |

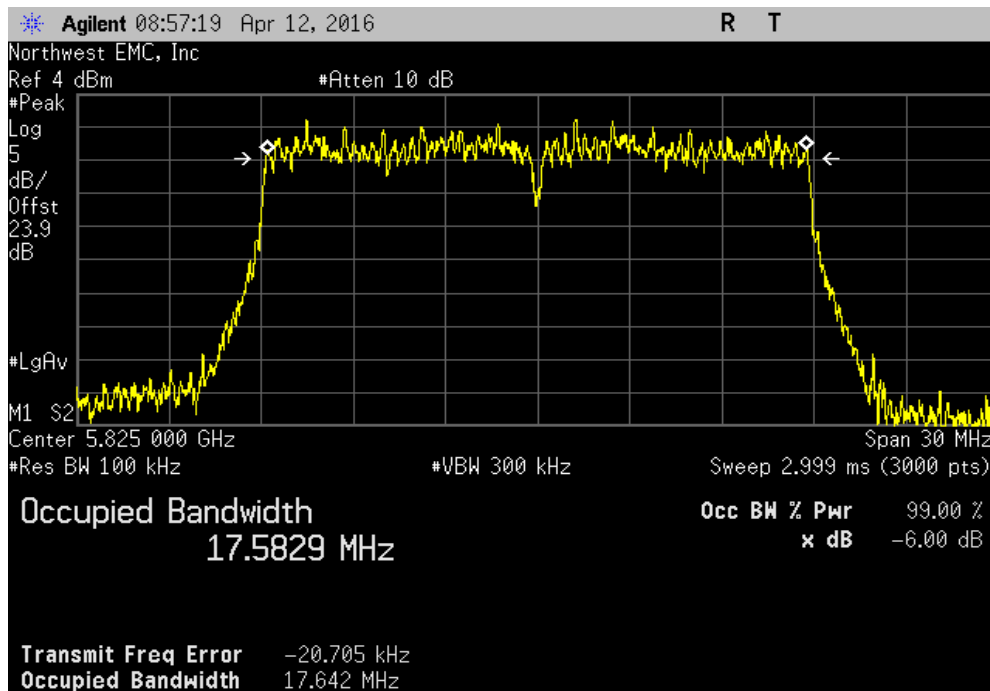


# OCCUPIED BANDWIDTH

| SISO, Chain B, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(n) MCS0 |  |  |  |            |             |        |
|--------------------------------------------------------------------------|--|--|--|------------|-------------|--------|
|                                                                          |  |  |  | Value      | Limit       | Result |
|                                                                          |  |  |  | 17.625 MHz | (>) 500 kHz | Pass   |

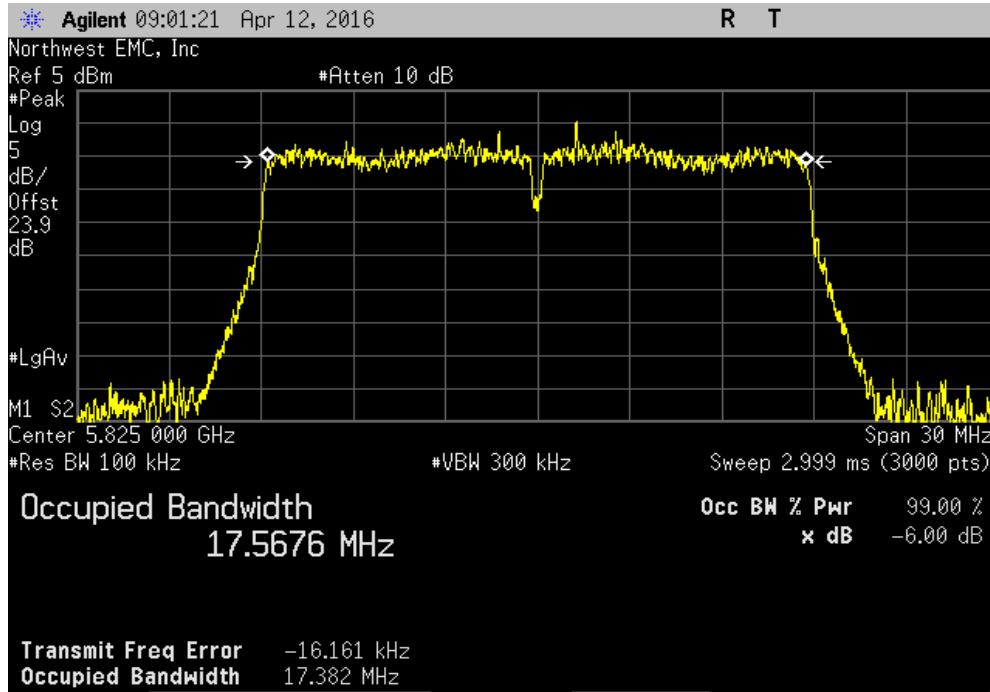


| SISO, Chain B, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(n) MCS7 |  |  |  |            |             |        |
|--------------------------------------------------------------------------|--|--|--|------------|-------------|--------|
|                                                                          |  |  |  | Value      | Limit       | Result |
|                                                                          |  |  |  | 17.642 MHz | (>) 500 kHz | Pass   |

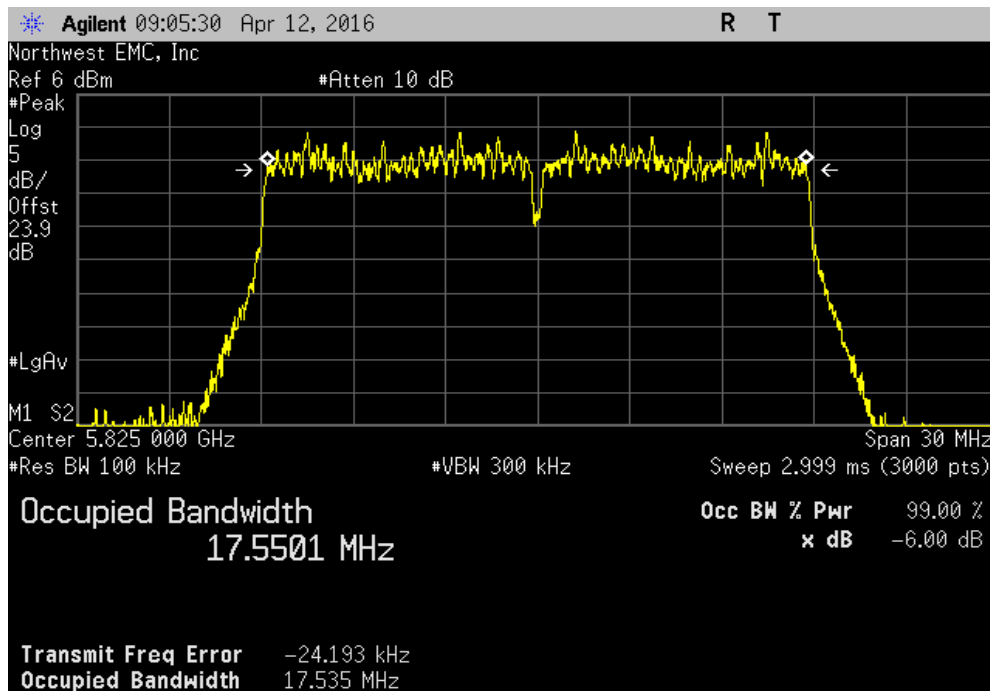


# OCCUPIED BANDWIDTH

| SISO, Chain B, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(ac) MCS0 |  |  |  |            |         |        |
|---------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                           |  |  |  | Value      | Limit   | Result |
|                                                                           |  |  |  | 17.382 MHz | 500 kHz | Pass   |

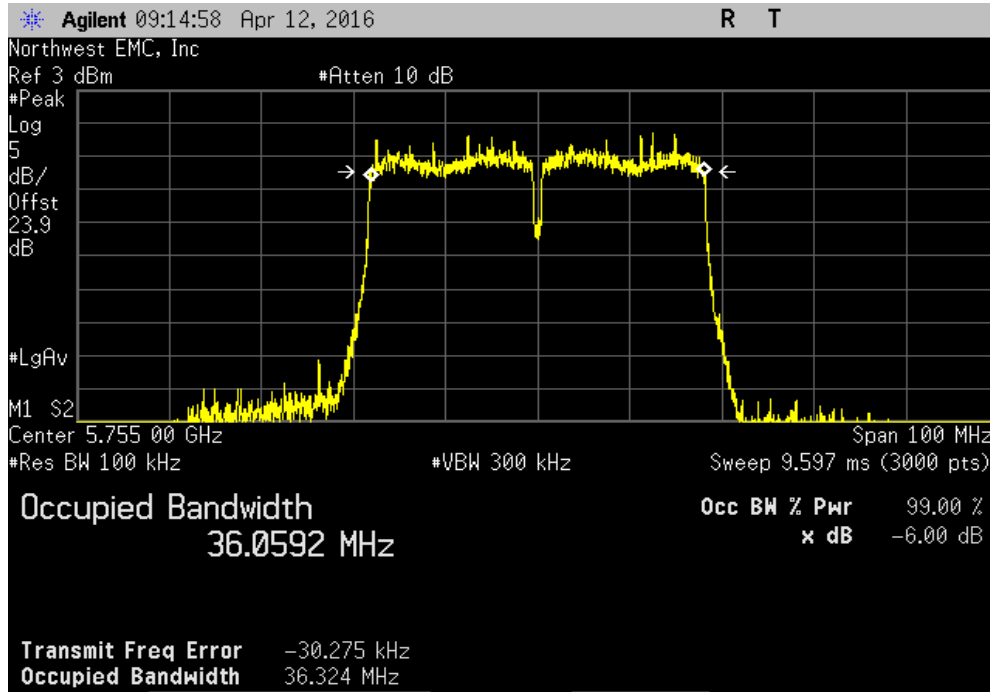


| SISO, Chain B, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(ac) MCS8 |  |  |  |            |         |        |
|---------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                           |  |  |  | Value      | Limit   | Result |
|                                                                           |  |  |  | 17.535 MHz | 500 kHz | Pass   |

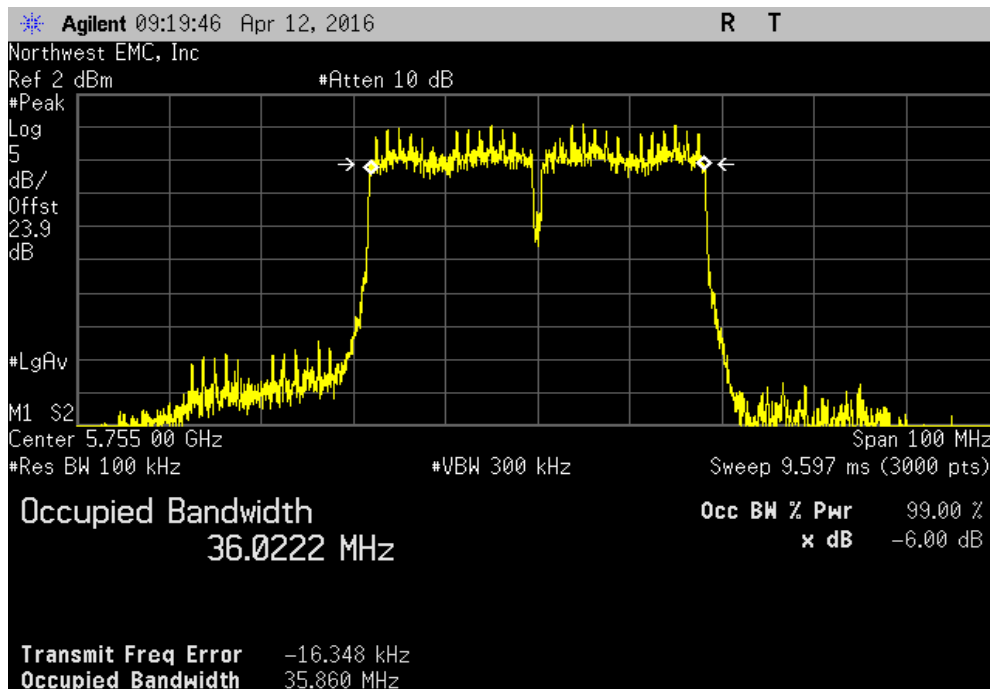


# OCCUPIED BANDWIDTH

| SISO, Chain B, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(n) MCS0 |  |  |  |            |         |        |
|-----------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                             |  |  |  | Value      | Limit   | Result |
|                                                                             |  |  |  | 36.324 MHz | 500 kHz | Pass   |

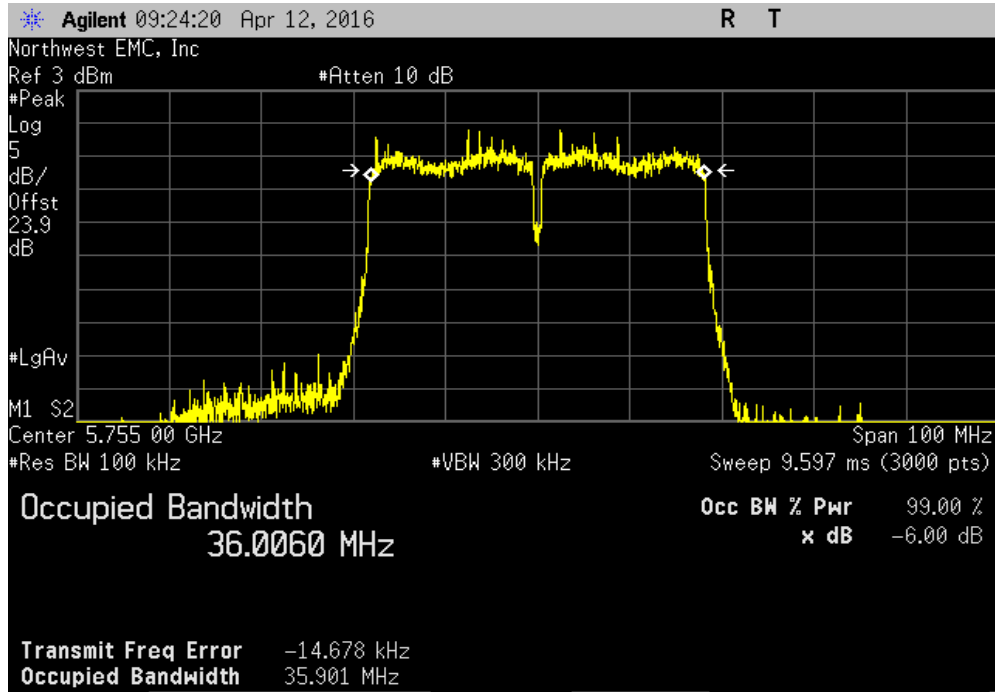


| SISO, Chain B, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(n) MCS7 |  |  |  |           |         |        |
|-----------------------------------------------------------------------------|--|--|--|-----------|---------|--------|
|                                                                             |  |  |  | Value     | Limit   | Result |
|                                                                             |  |  |  | 35.86 MHz | 500 kHz | Pass   |

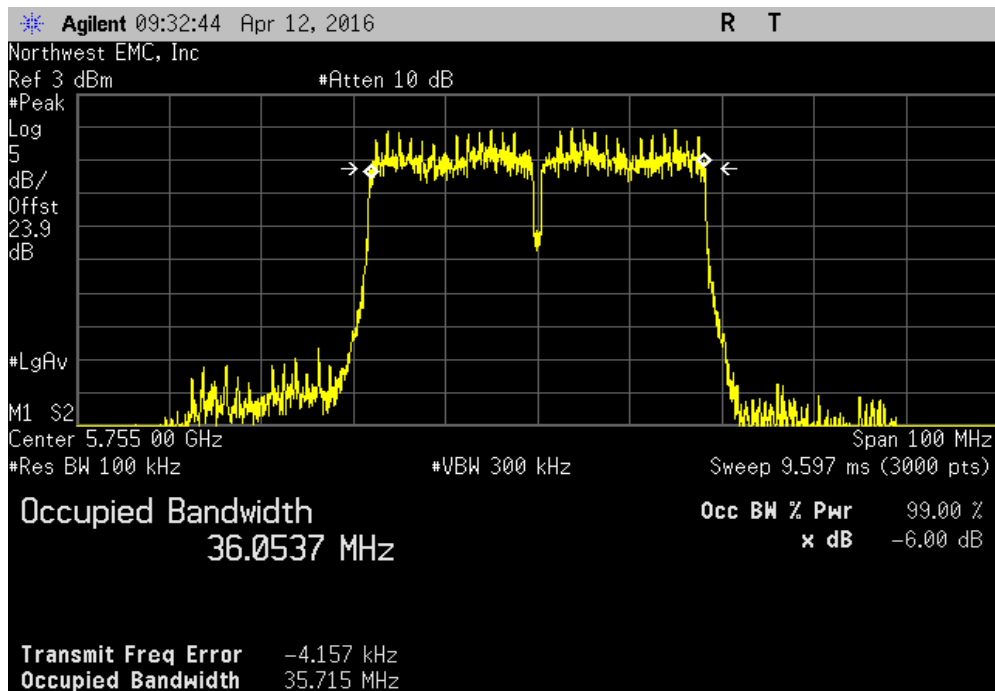


# OCCUPIED BANDWIDTH

| SISO, Chain B, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(ac) MCS0 |  |  |  |            |         |        |
|------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                              |  |  |  | Value      | Limit   | Result |
|                                                                              |  |  |  | 35.901 MHz | 500 kHz | Pass   |

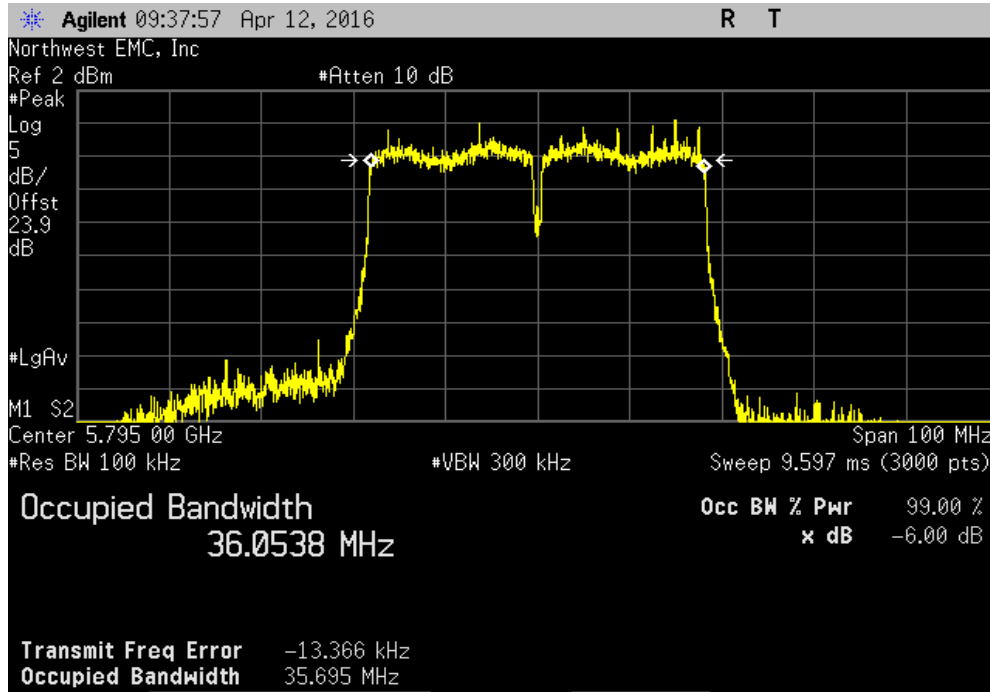


| SISO, Chain B, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(ac) MCS9 |  |  |  |            |         |        |
|------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                              |  |  |  | Value      | Limit   | Result |
|                                                                              |  |  |  | 35.715 MHz | 500 kHz | Pass   |

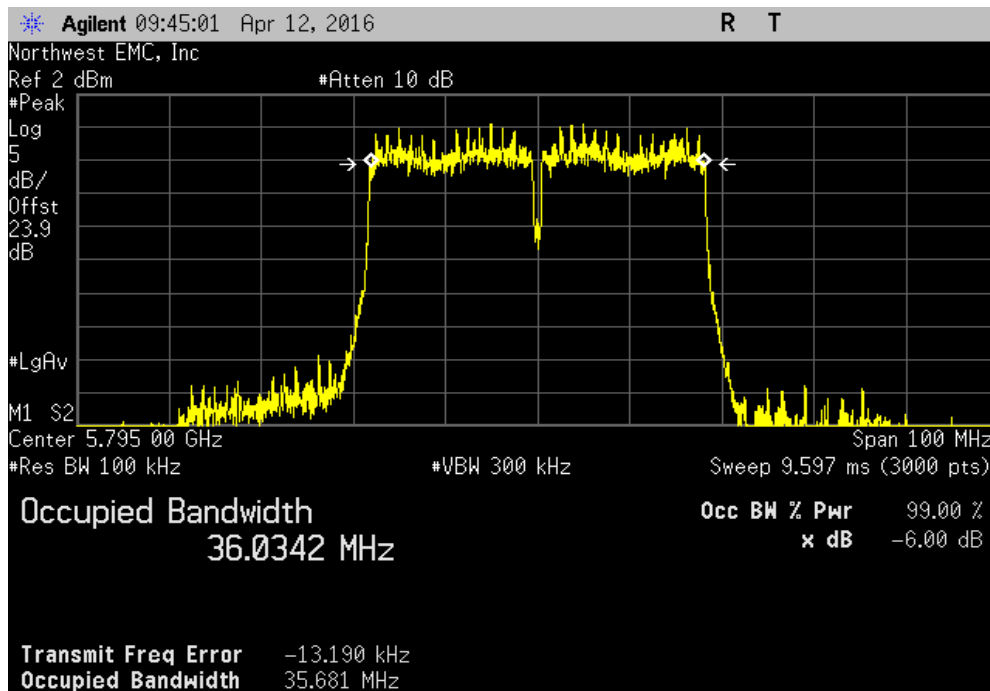


# OCCUPIED BANDWIDTH

| SISO, Chain B, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(n) MCS0 |  |  |  |            |         |        |
|------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                              |  |  |  | Value      | Limit   | Result |
|                                                                              |  |  |  | 35.695 MHz | 500 kHz | Pass   |

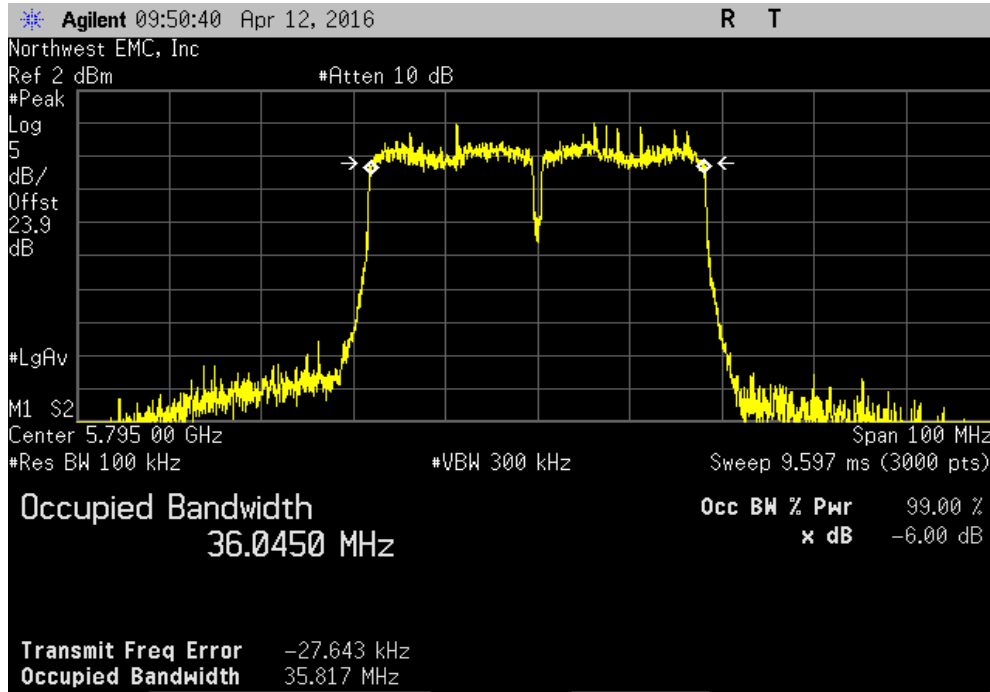


| SISO, Chain B, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(n) MCS7 |  |  |  |            |         |        |
|------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                              |  |  |  | Value      | Limit   | Result |
|                                                                              |  |  |  | 35.681 MHz | 500 kHz | Pass   |

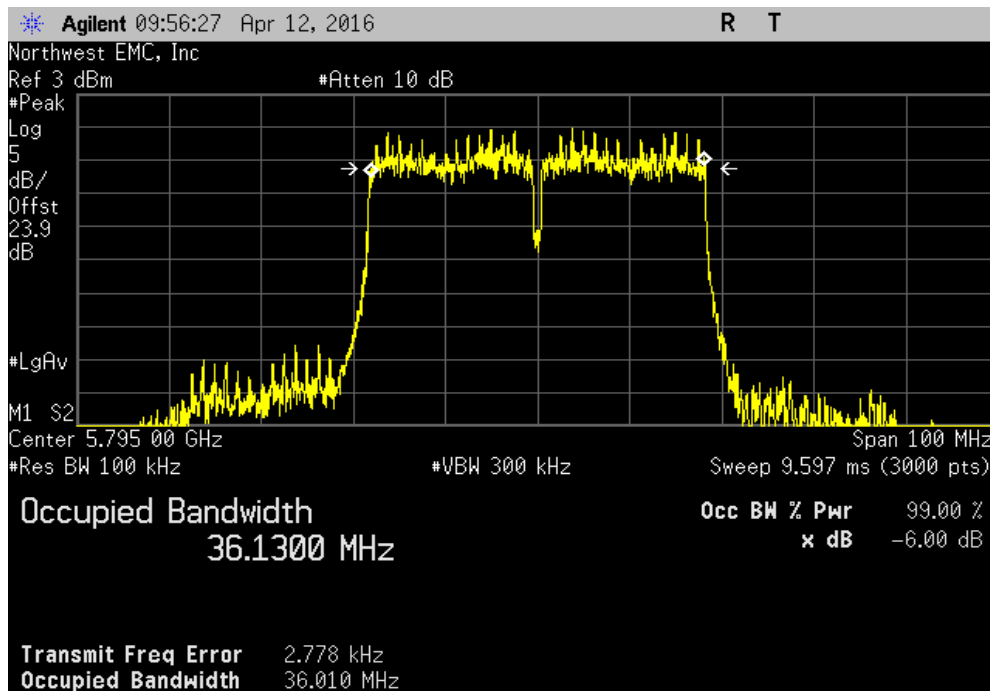


# OCCUPIED BANDWIDTH

| SISO, Chain B, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(ac) MCS0 |  |  |  |            |         |        |
|-------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                               |  |  |  | Value      | Limit   | Result |
|                                                                               |  |  |  |            | (>)     |        |
|                                                                               |  |  |  | 35.817 MHz | 500 kHz | Pass   |



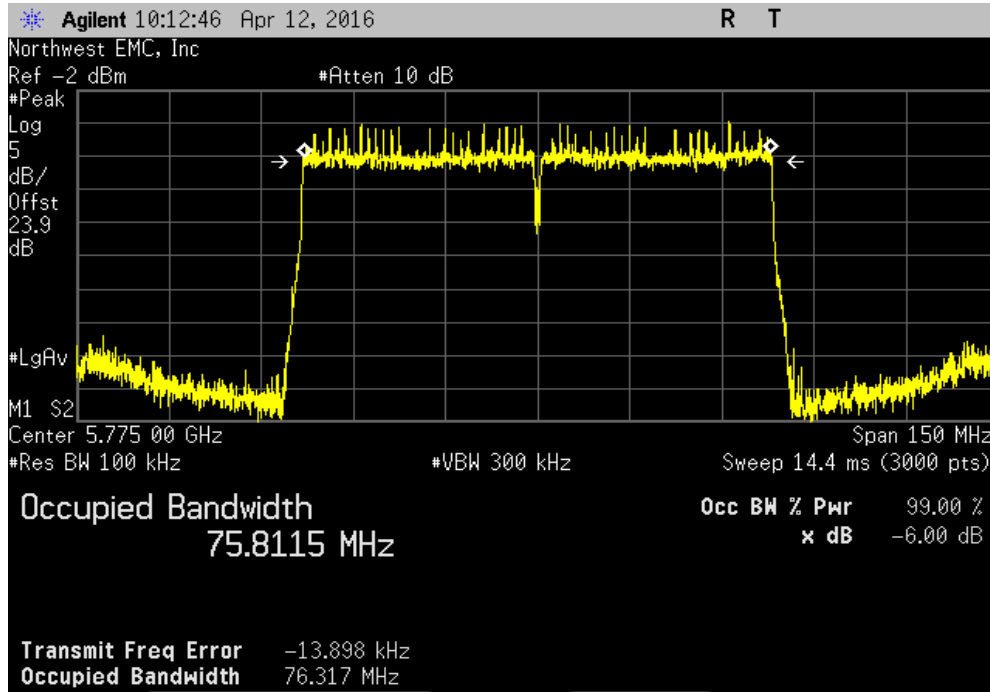
| SISO, Chain B, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(ac) MCS9 |  |  |  |           |         |        |
|-------------------------------------------------------------------------------|--|--|--|-----------|---------|--------|
|                                                                               |  |  |  | Value     | Limit   | Result |
|                                                                               |  |  |  |           | (>)     |        |
|                                                                               |  |  |  | 36.01 MHz | 500 kHz | Pass   |



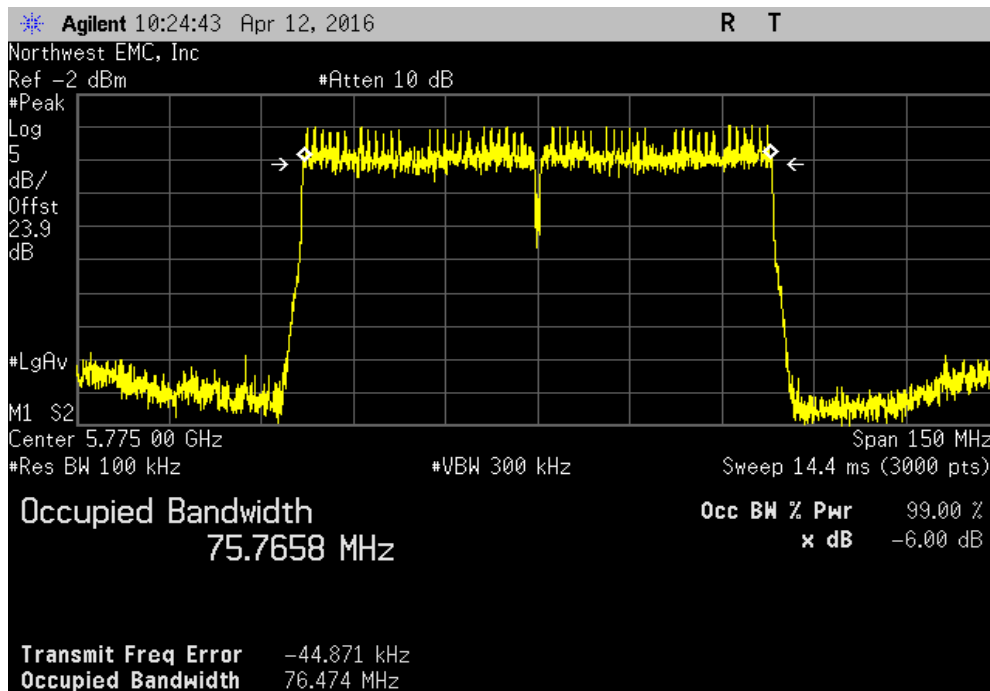


# OCCUPIED BANDWIDTH

| SISO, Chain B, 80MHz BW, Mid Channel, Ch 149/161 - 5775 MHz, 802.11(ac) MCS0 |  |  |  |            |         |        |
|------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                              |  |  |  | Value      | Limit   | Result |
|                                                                              |  |  |  | 76.317 MHz | 500 kHz | Pass   |



| SISO, Chain B, 80MHz BW, Mid Channel, Ch 149/161 - 5775 MHz, 802.11(ac) MCS9 |  |  |  |            |         |        |
|------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                              |  |  |  | Value      | Limit   | Result |
|                                                                              |  |  |  | 76.474 MHz | 500 kHz | Pass   |



# OCCUPIED BANDWIDTH

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

## TEST EQUIPMENT

| Description                  | Manufacturer       | Model            | ID  | Last Cal. | Interval (mo) |
|------------------------------|--------------------|------------------|-----|-----------|---------------|
| Analyzer - Spectrum Analyzer | Agilent            | E4440A           | AFE | 6/22/2015 | 12            |
| Attenuator                   | Fairview Microwave | SA4014-20        | TKV | 3/4/2016  | 12            |
| Block - DC                   | Fairview Microwave | SD3379           | AMJ | 6/6/2015  | 12            |
| Cable                        | ESM Cable Corp.    | TTBJ-141 KMKM-72 | NC5 | 6/6/2015  | 12            |
| Generator - Signal           | Agilent            | N5183A           | TIA | 4/6/2016  | 24            |

## TEST DESCRIPTION

The transmit frequencies and data rates listed in the datasheet were measured in each band utilized by the radio. The transmit power was set to its default maximum.

A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer input.

Per ANSI C63.10, the spectrum analyzer settings were as follows:

-RBW = 100 kHz

-VBW =  $\geq 3x$  RBW

-Detector = Peak

-Trace mode = max hold


The spectrum analyzer occupied bandwidth measurement function was then used to measure the 6 dB emission bandwidth.

The 99.9% (approximate 26 dB) emission bandwidth (EBW) was also measured at the same time to be used for setting the channel power integration bandwidth during conducted output power testing.

# OCCUPIED BANDWIDTH

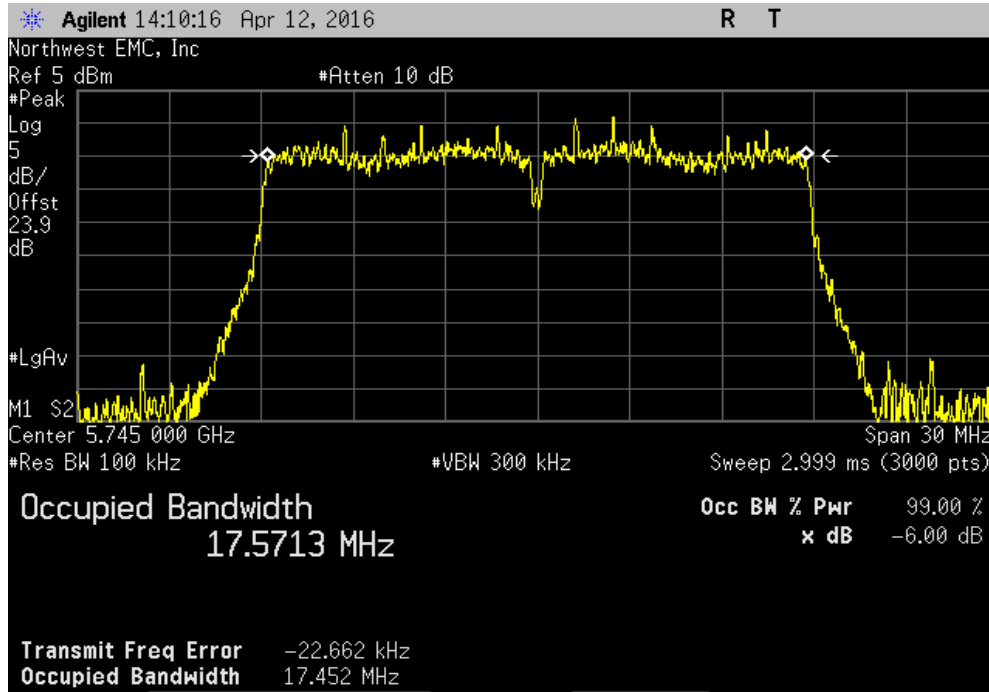


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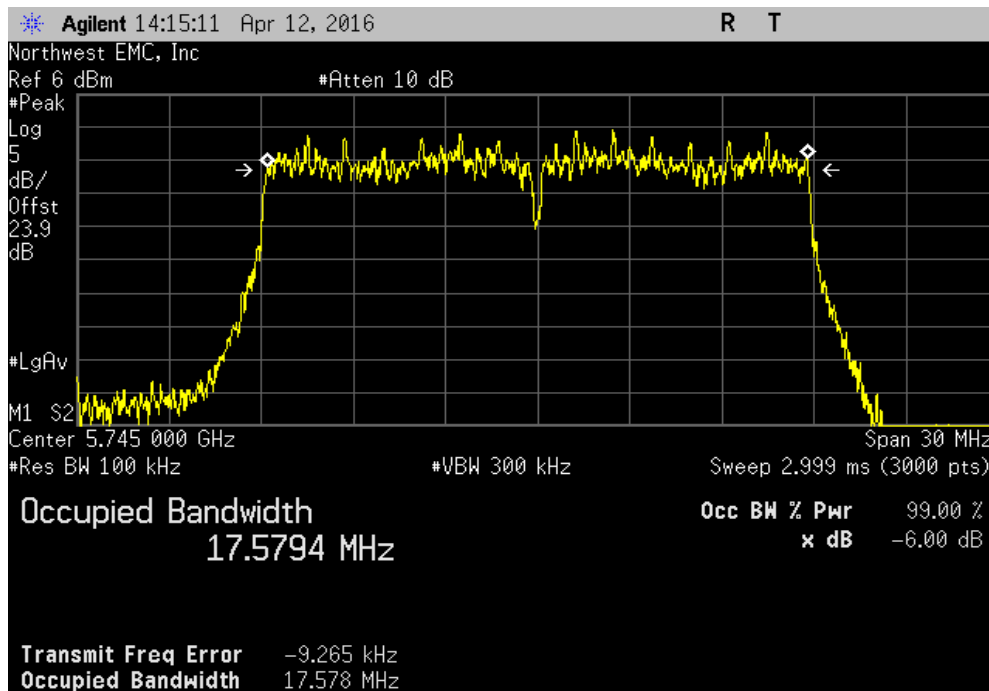
|                                                                                                                                                                                                                     |                 |                                                                                             |           |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------|-----------|--------|
| EUT: Model 1631                                                                                                                                                                                                     |                 | Work Order: MCSO1748                                                                        |           |        |
| Serial Number: 041152140753                                                                                                                                                                                         |                 | Date: 04/13/16                                                                              |           |        |
| Customer: Microsoft Corporation                                                                                                                                                                                     |                 | Temperature: 23°C                                                                           |           |        |
| Attendees: None                                                                                                                                                                                                     |                 | Humidity: 33%                                                                               |           |        |
| Project: None                                                                                                                                                                                                       |                 | Barometric Pres.: 1019 mbar                                                                 |           |        |
| Tested by: Richard Mellroth                                                                                                                                                                                         |                 | Power: 110VAC/60Hz                                                                          |           |        |
|                                                                                                                                                                                                                     |                 | Job Site: NC02                                                                              |           |        |
| TEST SPECIFICATIONS                                                                                                                                                                                                 |                 | Test Method                                                                                 |           |        |
| FCC 15.407:2016                                                                                                                                                                                                     |                 | ANSI C63.10:2013                                                                            |           |        |
| COMMENTS                                                                                                                                                                                                            |                 |                                                                                             |           |        |
| Power setting at 11dBm for 20MHz and 40MHz channels. Power Setting at 10dBm for 80MHz channels. Client supplied adapter cable loss of 1.3dB included in reference level offset. Signal setting at > 95% Duty Cycle. |                 |                                                                                             |           |        |
| DEVIATIONS FROM TEST STANDARD                                                                                                                                                                                       |                 |                                                                                             |           |        |
| None                                                                                                                                                                                                                |                 |                                                                                             |           |        |
| Configuration #                                                                                                                                                                                                     | 1               | Signature  |           |        |
|                                                                                                                                                                                                                     |                 | Value                                                                                       | Limit (>) | Result |
| 2x2 MIMO, Chain A                                                                                                                                                                                                   |                 |                                                                                             |           |        |
| 20MHz BW                                                                                                                                                                                                            |                 |                                                                                             |           |        |
| Low Channel, Ch 149 - 5745 MHz                                                                                                                                                                                      |                 |                                                                                             |           |        |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | 17.452 MHz                                                                                  | 500 kHz   | Pass   |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | 17.578 MHz                                                                                  | 500 kHz   | Pass   |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 17.399 MHz                                                                                  | 500 kHz   | Pass   |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8 | 17.418 MHz                                                                                  | 500 kHz   | Pass   |
| Mid Channel, Ch 157 - 5785 MHz                                                                                                                                                                                      |                 |                                                                                             |           |        |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | 17.535 MHz                                                                                  | 500 kHz   | Pass   |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | 17.575 MHz                                                                                  | 500 kHz   | Pass   |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 16.78 MHz                                                                                   | 500 kHz   | Pass   |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8 | 17.135 MHz                                                                                  | 500 kHz   | Pass   |
| High Channel, Ch 165 - 5825 MHz                                                                                                                                                                                     |                 |                                                                                             |           |        |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | 17.495 MHz                                                                                  | 500 kHz   | Pass   |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | 17.034 MHz                                                                                  | 500 kHz   | Pass   |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 17.503 MHz                                                                                  | 500 kHz   | Pass   |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8 | 17.491 MHz                                                                                  | 500 kHz   | Pass   |
| 40MHz BW                                                                                                                                                                                                            |                 |                                                                                             |           |        |
| Low Channel, Ch 149/153 - 5755 MHz                                                                                                                                                                                  |                 |                                                                                             |           |        |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | 35.249 MHz                                                                                  | 500 kHz   | Pass   |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | 35.188 MHz                                                                                  | 500 kHz   | Pass   |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 35.412 MHz                                                                                  | 500 kHz   | Pass   |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9 | 35.749 MHz                                                                                  | 500 kHz   | Pass   |
| High Channel, Ch 157/161 - 5795 MHz                                                                                                                                                                                 |                 |                                                                                             |           |        |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | 35.268 MHz                                                                                  | 500 kHz   | Pass   |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | 36.016 MHz                                                                                  | 500 kHz   | Pass   |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 35.243 MHz                                                                                  | 500 kHz   | Pass   |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9 | 35.094 MHz                                                                                  | 500 kHz   | Pass   |
| 80MHz BW                                                                                                                                                                                                            |                 |                                                                                             |           |        |
| Mid Channel, Ch 149/161 - 5775 MHz                                                                                                                                                                                  |                 |                                                                                             |           |        |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 75.346 MHz                                                                                  | 500 kHz   | Pass   |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9 | 75.091 MHz                                                                                  | 500 kHz   | Pass   |
| 2x2 MIMO, Chain B                                                                                                                                                                                                   |                 |                                                                                             |           |        |
| 20MHz BW                                                                                                                                                                                                            |                 |                                                                                             |           |        |
| Low Channel, Ch 149 - 5745 MHz                                                                                                                                                                                      |                 |                                                                                             |           |        |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | 17.579 MHz                                                                                  | 500 kHz   | Pass   |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | 17.465 MHz                                                                                  | 500 kHz   | Pass   |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 17.457 MHz                                                                                  | 500 kHz   | Pass   |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8 | 17.615 MHz                                                                                  | 500 kHz   | Pass   |
| Mid Channel, Ch 157 - 5785 MHz                                                                                                                                                                                      |                 |                                                                                             |           |        |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | 17.56 MHz                                                                                   | 500 kHz   | Pass   |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | 17.479 MHz                                                                                  | 500 kHz   | Pass   |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 17.67 MHz                                                                                   | 500 kHz   | Pass   |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8 | 17.421 MHz                                                                                  | 500 kHz   | Pass   |
| High Channel, Ch 165 - 5825 MHz                                                                                                                                                                                     |                 |                                                                                             |           |        |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | 17.448 MHz                                                                                  | 500 kHz   | Pass   |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | 17.539 MHz                                                                                  | 500 kHz   | Pass   |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 17.319 MHz                                                                                  | 500 kHz   | Pass   |
|                                                                                                                                                                                                                     | 802.11(ac) MCS8 | 17.371 MHz                                                                                  | 500 kHz   | Pass   |
| 40MHz BW                                                                                                                                                                                                            |                 |                                                                                             |           |        |
| Low Channel, Ch 149/153 - 5755 MHz                                                                                                                                                                                  |                 |                                                                                             |           |        |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | 35.084 MHz                                                                                  | 500 kHz   | Pass   |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | 35.63 MHz                                                                                   | 500 kHz   | Pass   |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 35.585 MHz                                                                                  | 500 kHz   | Pass   |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9 | 35.602 MHz                                                                                  | 500 kHz   | Pass   |
| High Channel, Ch 157/161 - 5795 MHz                                                                                                                                                                                 |                 |                                                                                             |           |        |
|                                                                                                                                                                                                                     | 802.11(n) MCS8  | 35.587 MHz                                                                                  | 500 kHz   | Pass   |
|                                                                                                                                                                                                                     | 802.11(n) MCS15 | 35.655 MHz                                                                                  | 500 kHz   | Pass   |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 35.398 MHz                                                                                  | 500 kHz   | Pass   |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9 | 35.166 MHz                                                                                  | 500 kHz   | Pass   |
| 80MHz BW                                                                                                                                                                                                            |                 |                                                                                             |           |        |
| Mid Channel, Ch 149/161 - 5775 MHz                                                                                                                                                                                  |                 |                                                                                             |           |        |
|                                                                                                                                                                                                                     | 802.11(ac) MCS0 | 76.286 MHz                                                                                  | 500 kHz   | Pass   |
|                                                                                                                                                                                                                     | 802.11(ac) MCS9 | 76.362 MHz                                                                                  | 500 kHz   | Pass   |

# OCCUPIED BANDWIDTH

| 2x2 MIMO, Chain A, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(n) MCS8 |  |  |  |            |         |        |
|-----------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                             |  |  |  | Value      | Limit   | Result |
|                                                                             |  |  |  | 17.452 MHz | 500 kHz | Pass   |

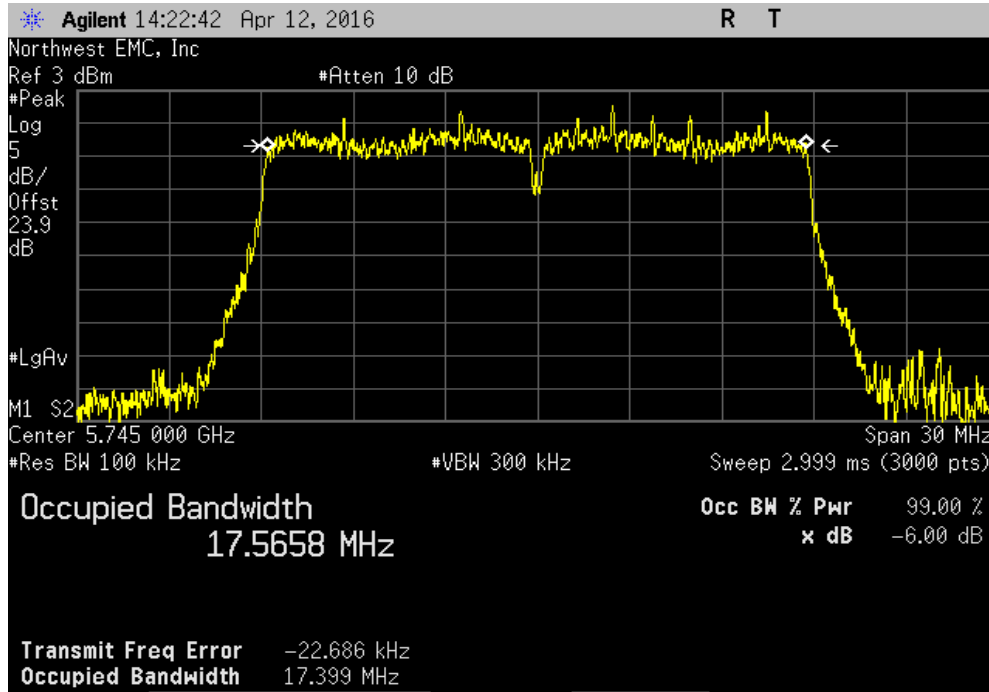


| 2x2 MIMO, Chain A, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(n) MCS15 |  |  |  |            |         |        |
|------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                              |  |  |  | Value      | Limit   | Result |
|                                                                              |  |  |  | 17.578 MHz | 500 kHz | Pass   |

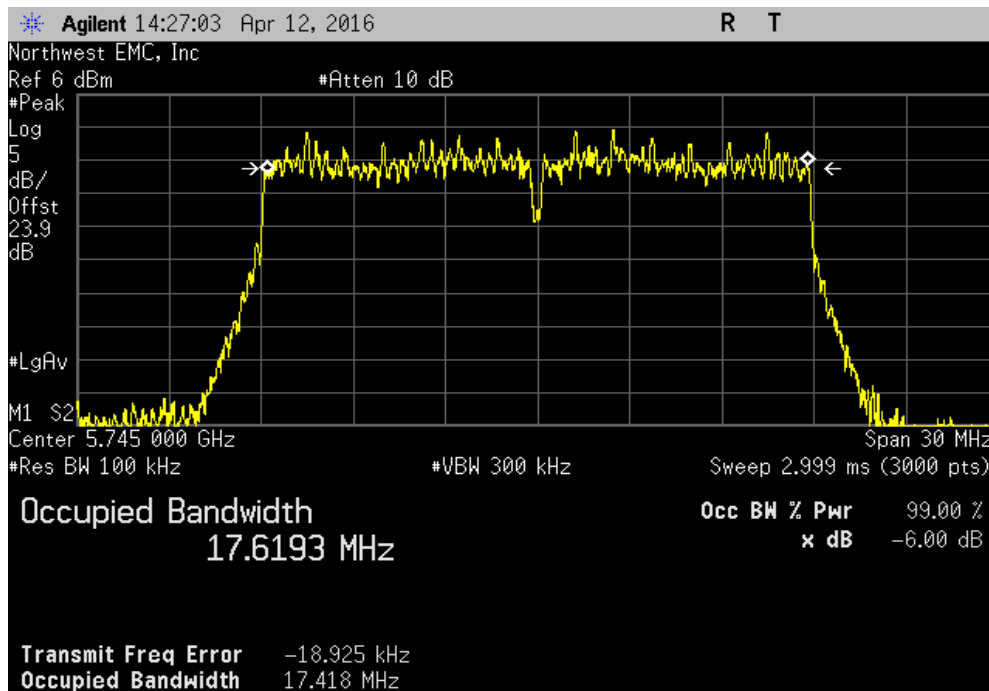


# OCCUPIED BANDWIDTH

| 2x2 MIMO, Chain A, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(ac) MCS0 |  |  |  |            |         |        |
|------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                              |  |  |  | Value      | Limit   | Result |
|                                                                              |  |  |  | 17.399 MHz | 500 kHz | Pass   |

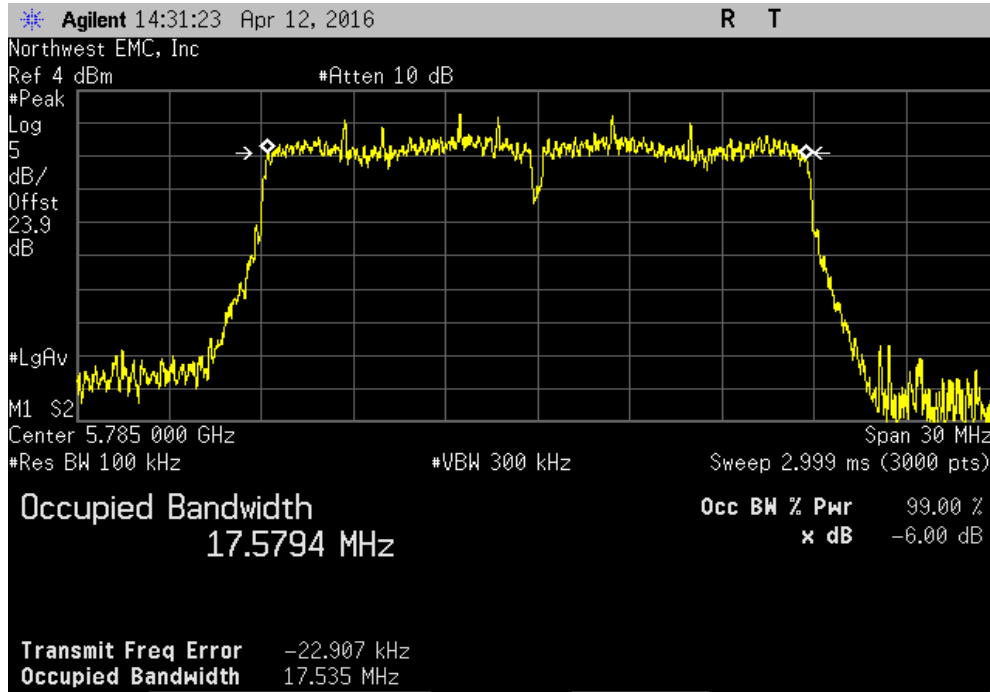


| 2x2 MIMO, Chain A, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(ac) MCS8 |  |  |  |            |         |        |
|------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                              |  |  |  | Value      | Limit   | Result |
|                                                                              |  |  |  | 17.418 MHz | 500 kHz | Pass   |

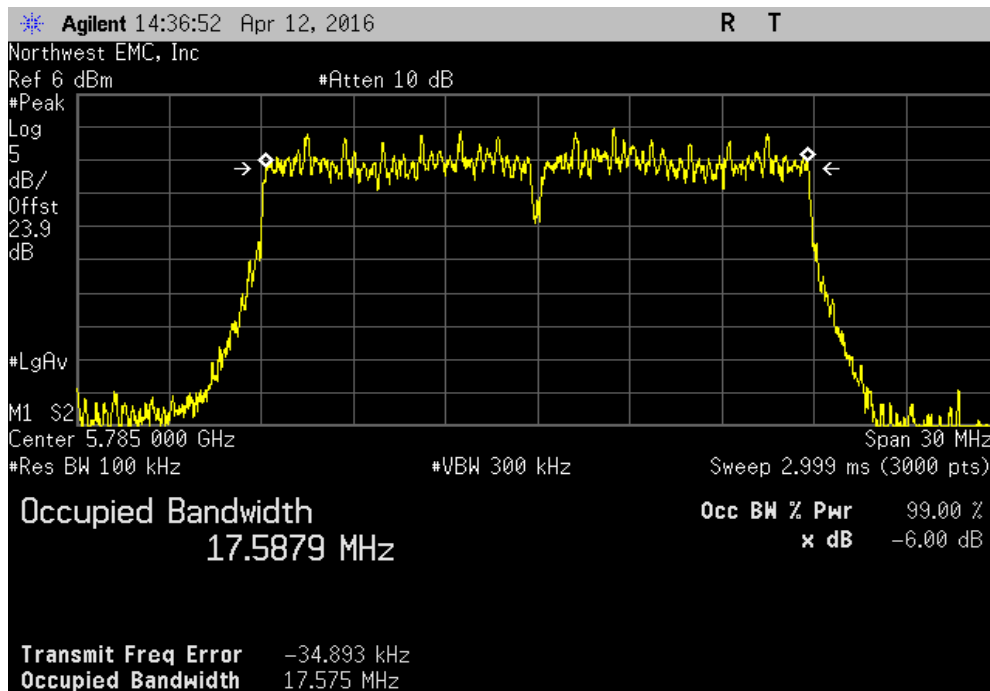


# OCCUPIED BANDWIDTH

| 2x2 MIMO, Chain A, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(n) MCS8 |  |  |  |            |         |        |
|-----------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                             |  |  |  | Value      | Limit   | Result |
|                                                                             |  |  |  | 17.535 MHz | 500 kHz | Pass   |

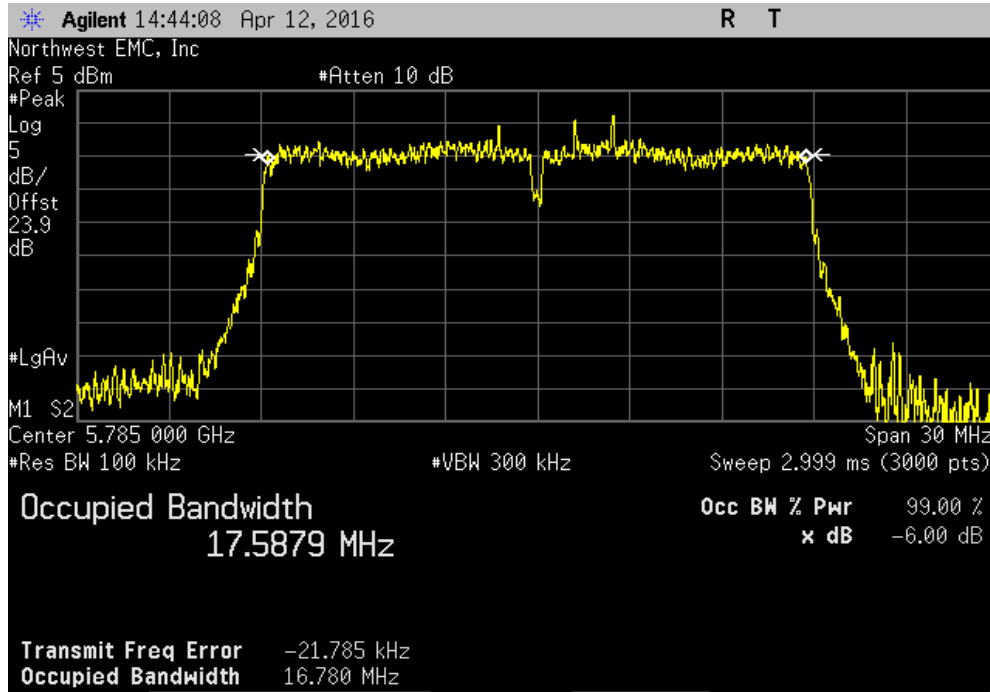


| 2x2 MIMO, Chain A, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(n) MCS15 |  |  |  |            |         |        |
|------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                              |  |  |  | Value      | Limit   | Result |
|                                                                              |  |  |  | 17.575 MHz | 500 kHz | Pass   |

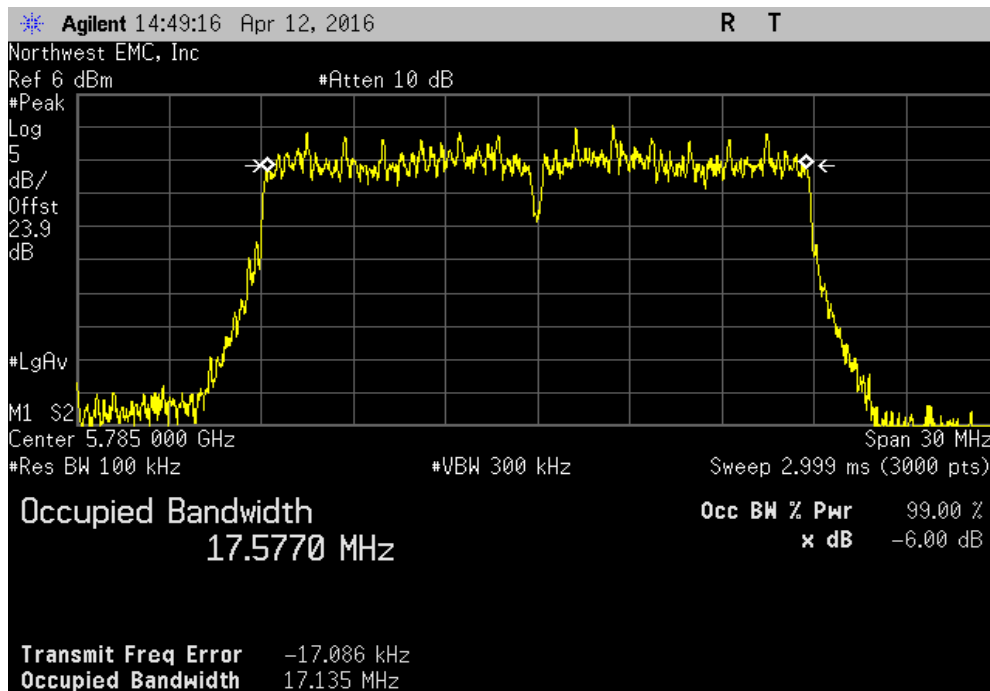


# OCCUPIED BANDWIDTH

| 2x2 MIMO, Chain A, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(ac) MCS0 |  |  |  |           |         |        |
|------------------------------------------------------------------------------|--|--|--|-----------|---------|--------|
|                                                                              |  |  |  | Value     | Limit   | Result |
|                                                                              |  |  |  | 16.78 MHz | 500 kHz | Pass   |

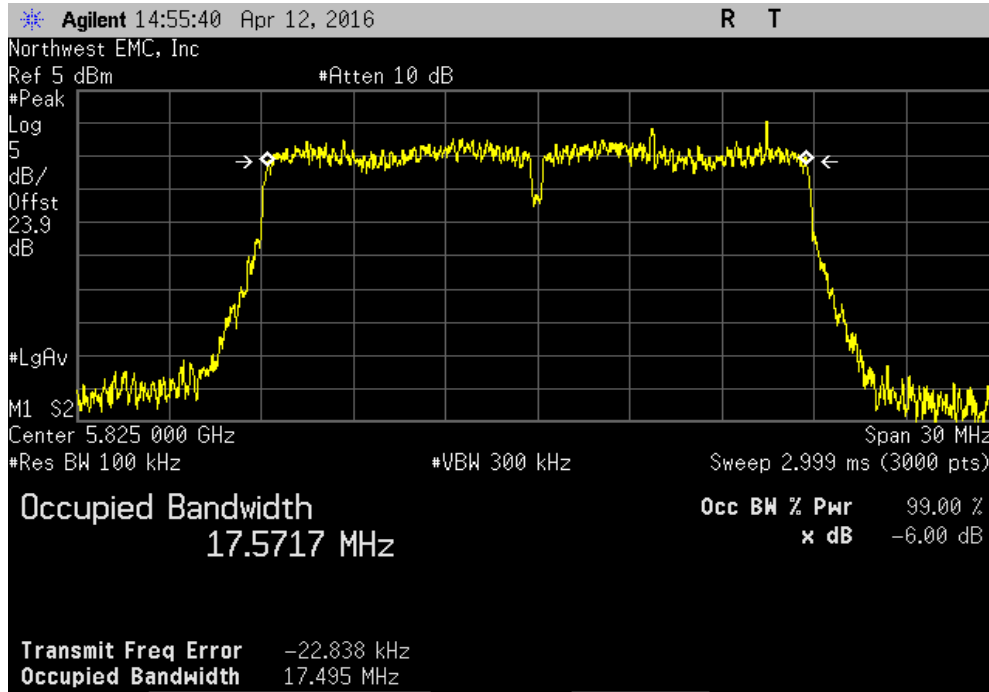


| 2x2 MIMO, Chain A, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(ac) MCS8 |  |  |  |            |         |        |
|------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                              |  |  |  | Value      | Limit   | Result |
|                                                                              |  |  |  | 17.135 MHz | 500 kHz | Pass   |

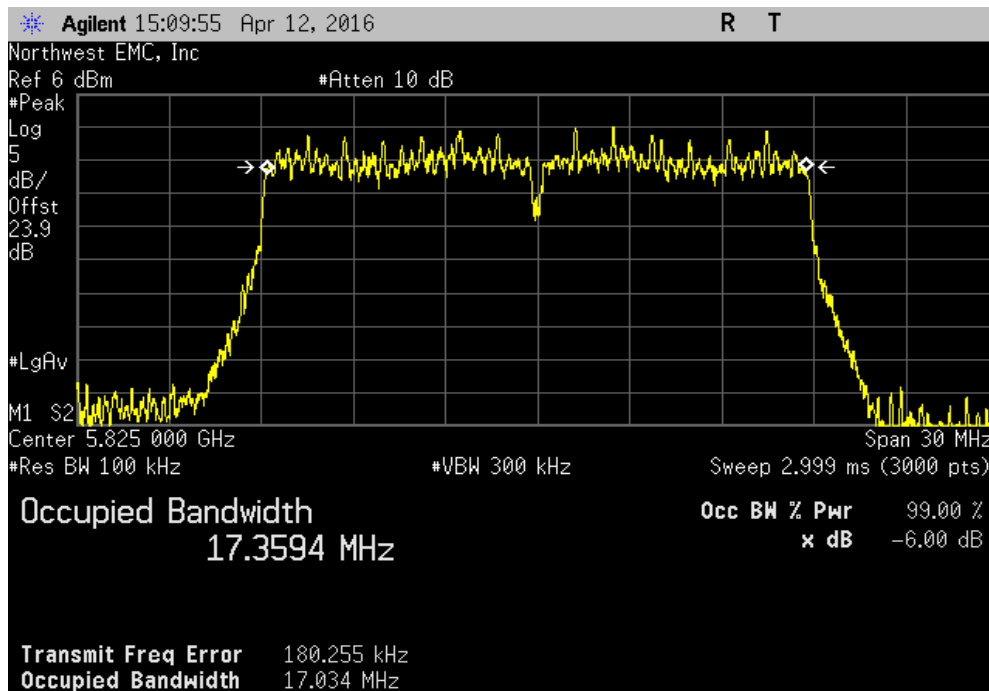


# OCCUPIED BANDWIDTH

| 2x2 MIMO, Chain A, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(n) MCS8 |  |  |  |            |         |        |
|------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                              |  |  |  | Value      | Limit   | Result |
|                                                                              |  |  |  | 17.495 MHz | 500 kHz | Pass   |



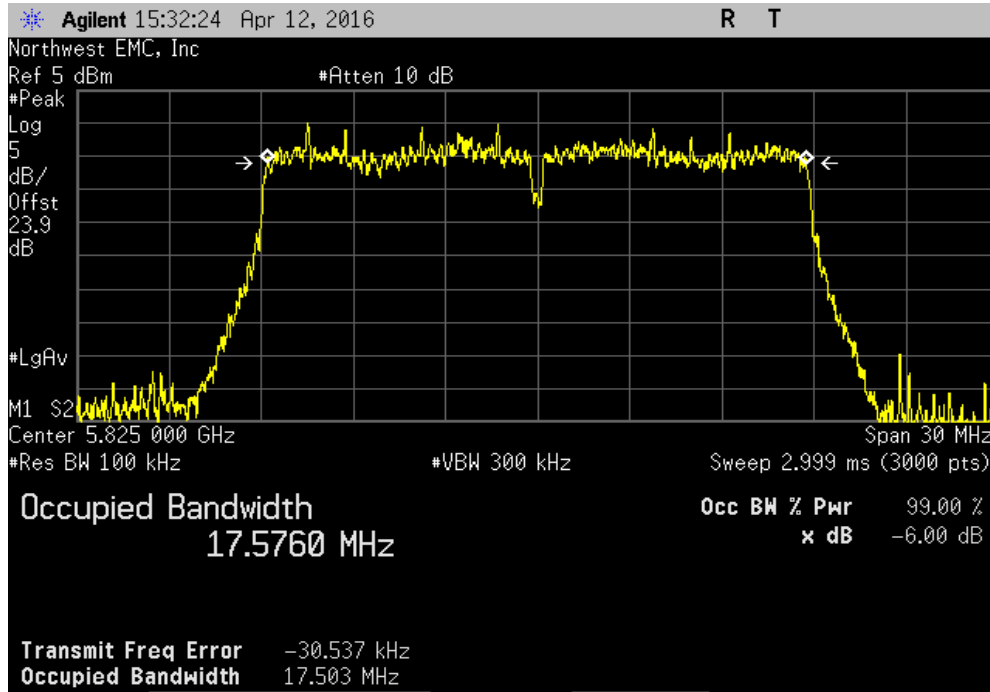
| 2x2 MIMO, Chain A, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(n) MCS15 |  |  |  |            |         |        |
|-------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                               |  |  |  | Value      | Limit   | Result |
|                                                                               |  |  |  | 17.034 MHz | 500 kHz | Pass   |



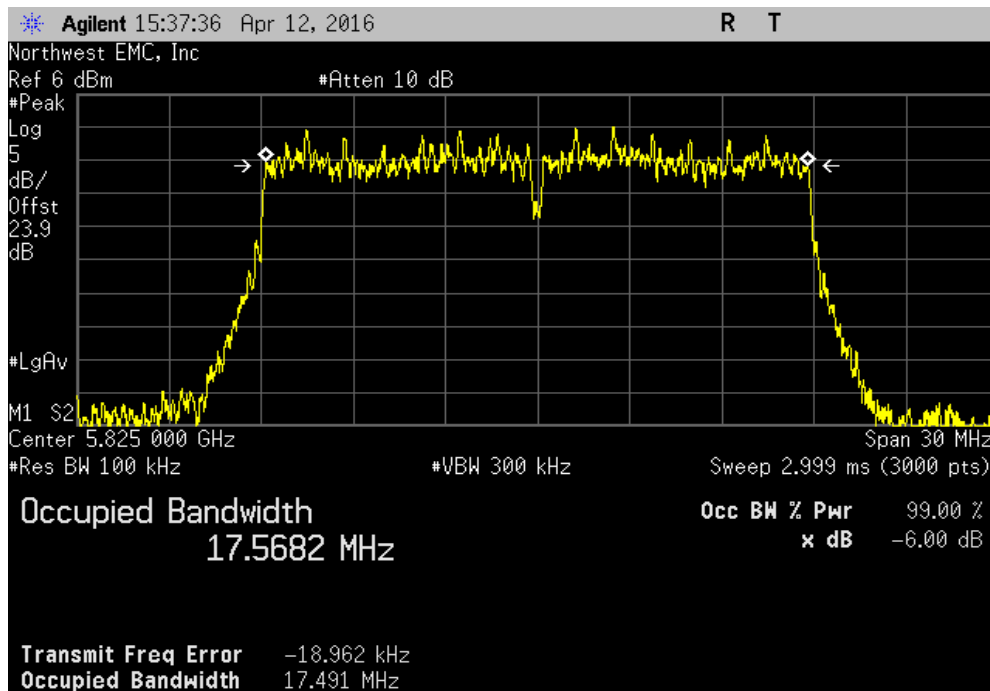


# OCCUPIED BANDWIDTH

| 2x2 MIMO, Chain A, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(ac) MCS0 |  |  |  |            |         |        |
|-------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                               |  |  |  | Value      | Limit   | Result |
|                                                                               |  |  |  | 17.503 MHz | 500 kHz | Pass   |

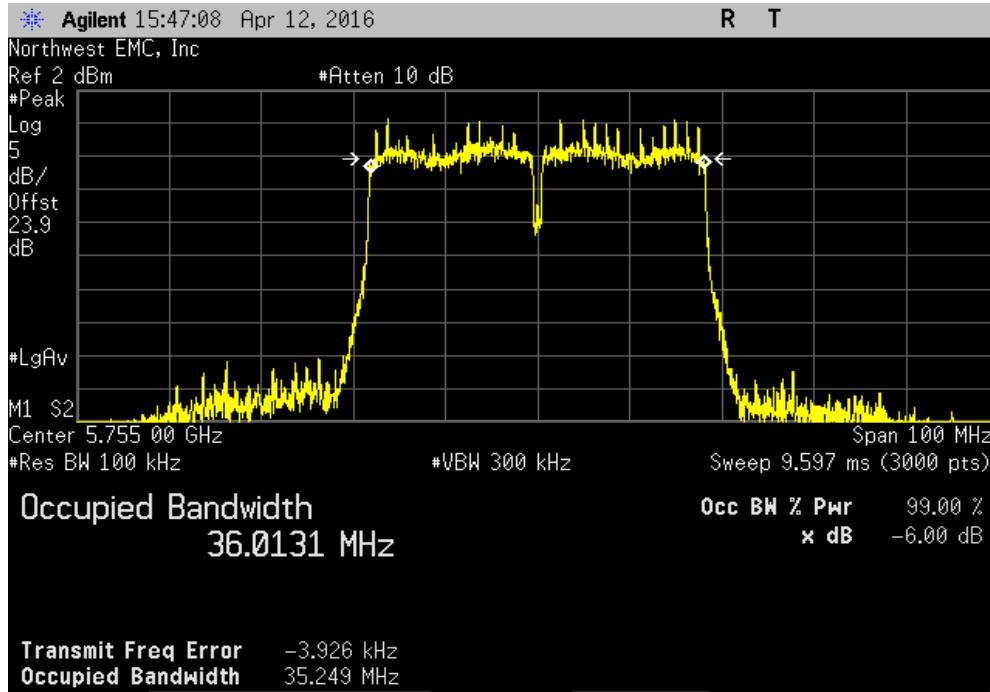


| 2x2 MIMO, Chain A, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(ac) MCS8 |  |  |  |            |         |        |
|-------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                               |  |  |  | Value      | Limit   | Result |
|                                                                               |  |  |  | 17.491 MHz | 500 kHz | Pass   |

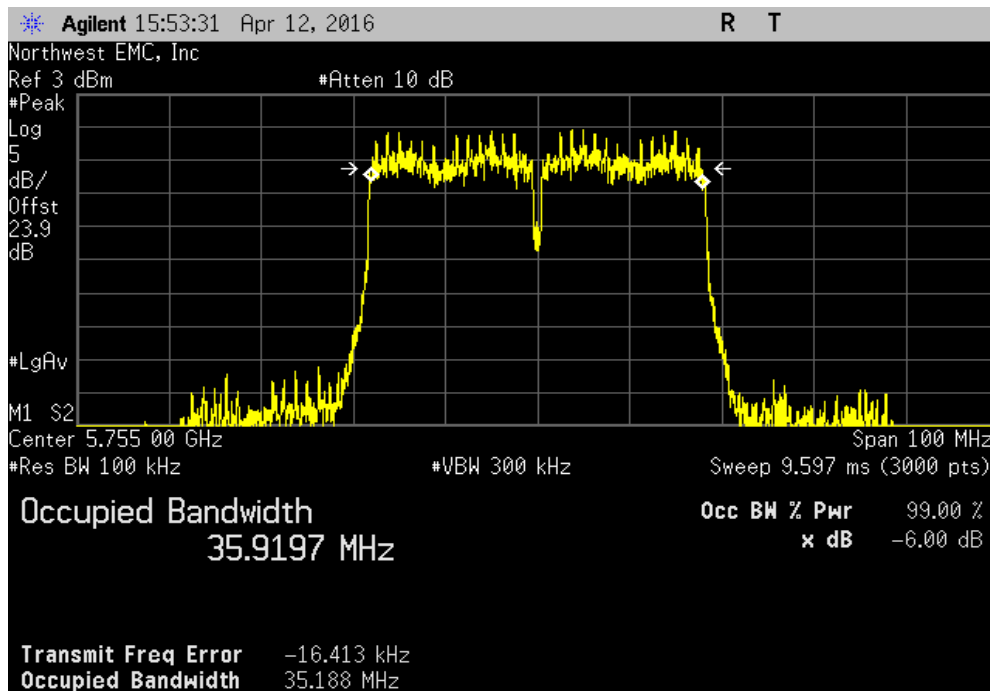


# OCCUPIED BANDWIDTH

| 2x2 MIMO, Chain A, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(n) MCS8 |  |  |            |         |        |  |
|---------------------------------------------------------------------------------|--|--|------------|---------|--------|--|
|                                                                                 |  |  | Value      | Limit   | Result |  |
|                                                                                 |  |  |            | (>)     |        |  |
|                                                                                 |  |  | 35.249 MHz | 500 kHz | Pass   |  |

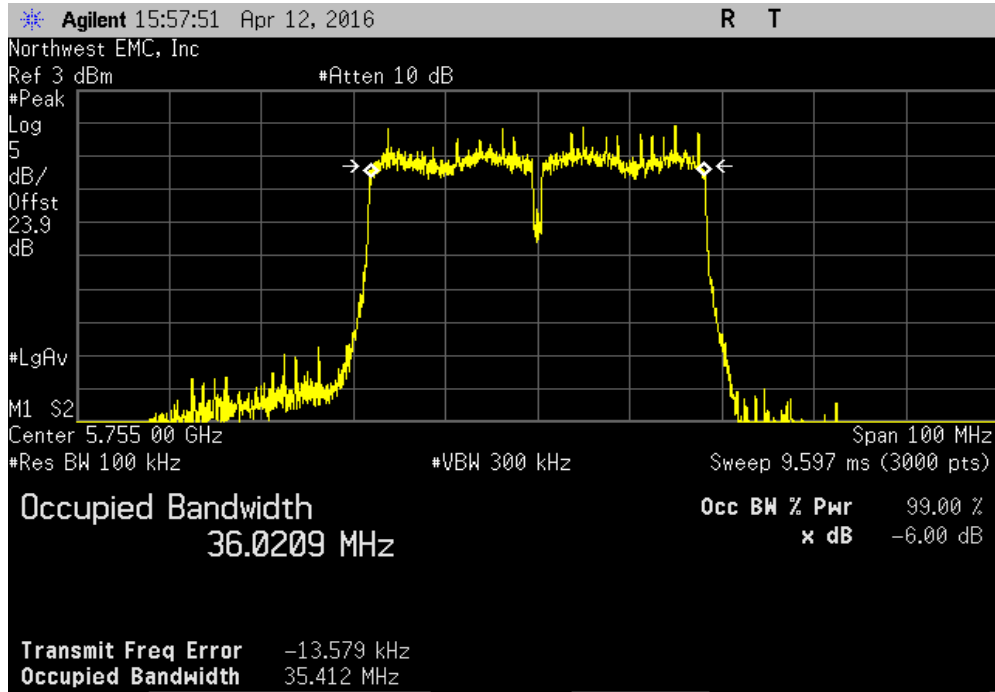


| 2x2 MIMO, Chain A, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(n) MCS15 |  |  |            |         |        |  |
|----------------------------------------------------------------------------------|--|--|------------|---------|--------|--|
|                                                                                  |  |  | Value      | Limit   | Result |  |
|                                                                                  |  |  |            | (>)     |        |  |
|                                                                                  |  |  | 35.188 MHz | 500 kHz | Pass   |  |

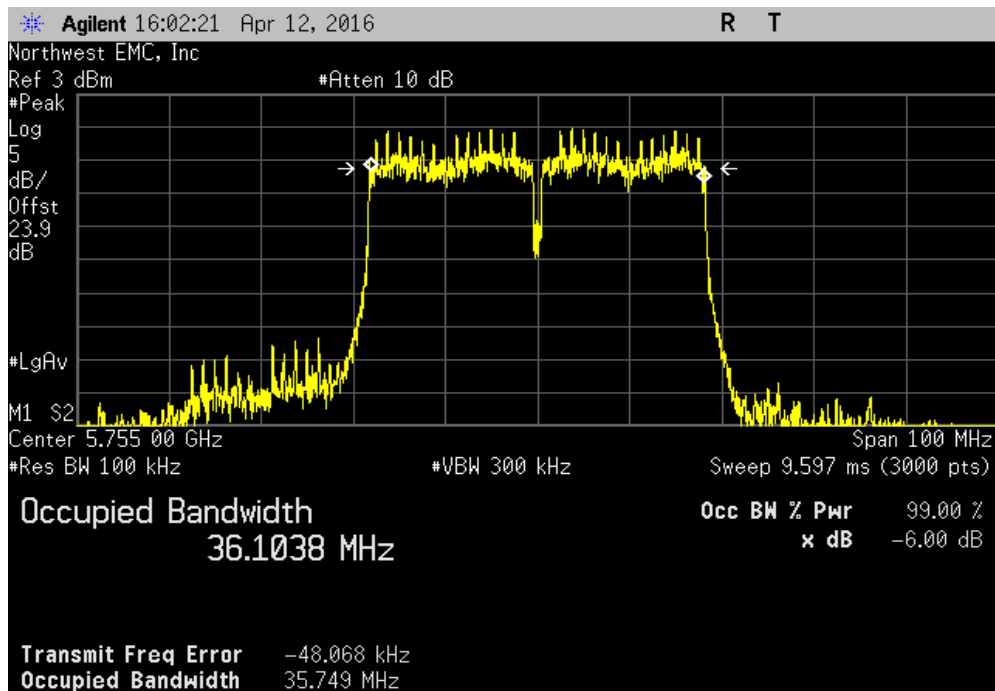


# OCCUPIED BANDWIDTH

| 2x2 MIMO, Chain A, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(ac) MCS0 |  |  |  |            |         |        |
|----------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                                  |  |  |  | Value      | Limit   | Result |
|                                                                                  |  |  |  |            | (>)     |        |
|                                                                                  |  |  |  | 35.412 MHz | 500 kHz | Pass   |

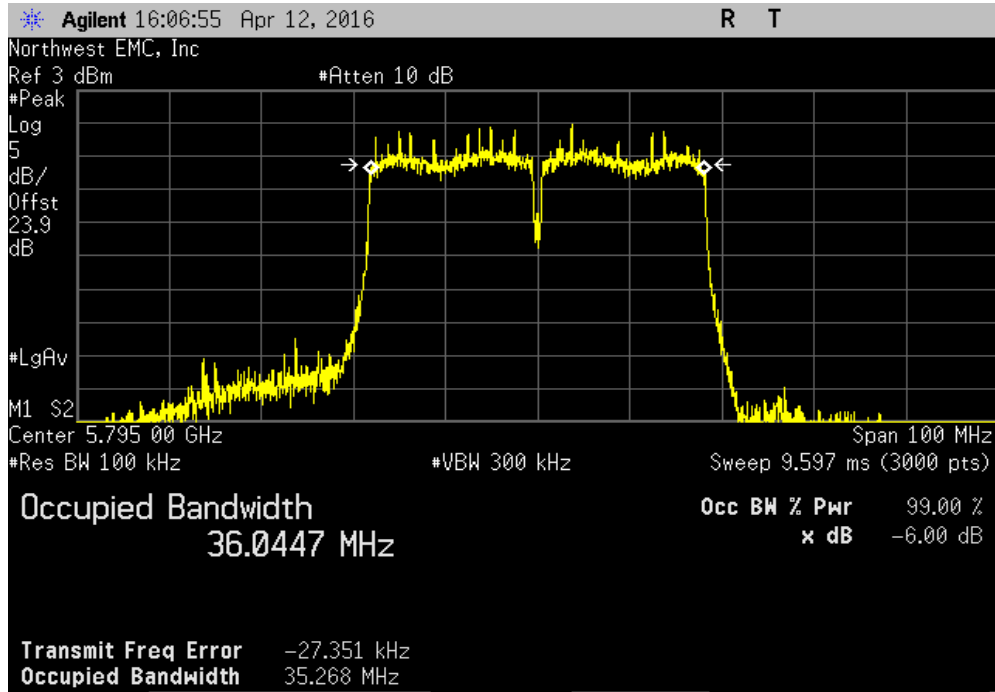


| 2x2 MIMO, Chain A, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(ac) MCS9 |  |  |  |            |         |        |
|----------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                                  |  |  |  | Value      | Limit   | Result |
|                                                                                  |  |  |  |            | (>)     |        |
|                                                                                  |  |  |  | 35.749 MHz | 500 kHz | Pass   |

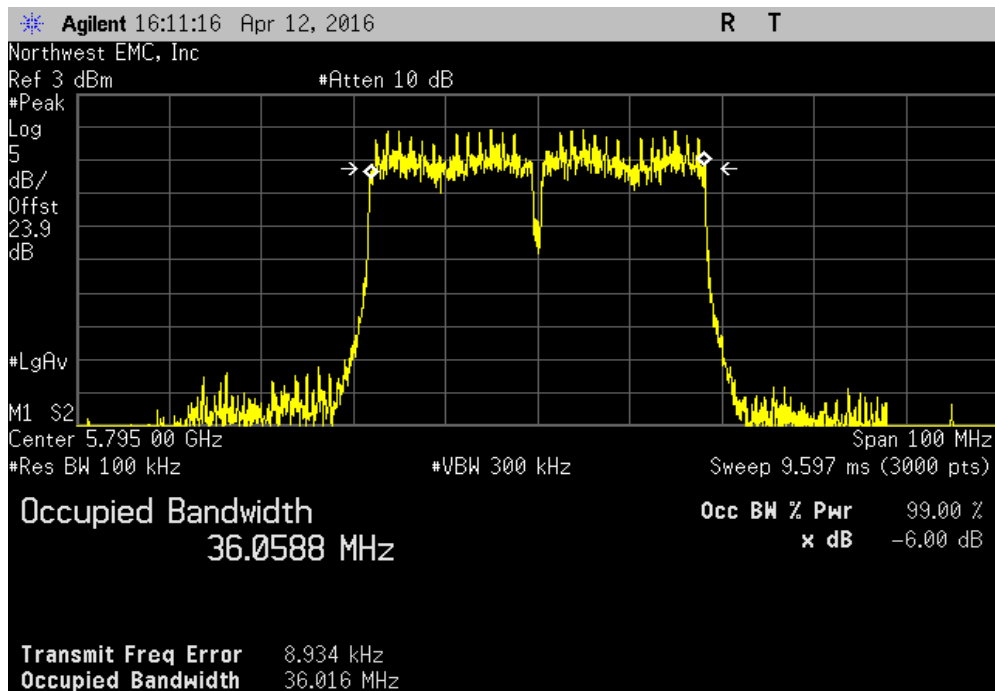


# OCCUPIED BANDWIDTH

| 2x2 MIMO, Chain A, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(n) MCS8 |  |  |  |            |         |        |
|----------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                                  |  |  |  | Value      | Limit   | Result |
|                                                                                  |  |  |  |            | (>)     |        |
|                                                                                  |  |  |  | 35.268 MHz | 500 kHz | Pass   |

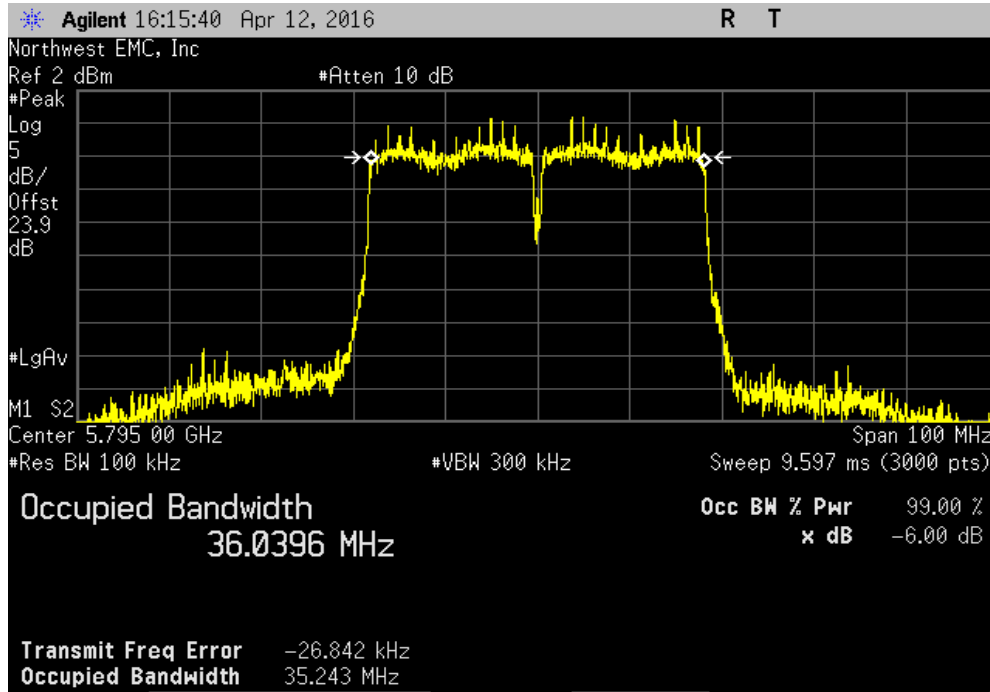


| 2x2 MIMO, Chain A, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(n) MCS15 |  |  |  |            |         |        |
|-----------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                                   |  |  |  | Value      | Limit   | Result |
|                                                                                   |  |  |  |            | (>)     |        |
|                                                                                   |  |  |  | 36.016 MHz | 500 kHz | Pass   |

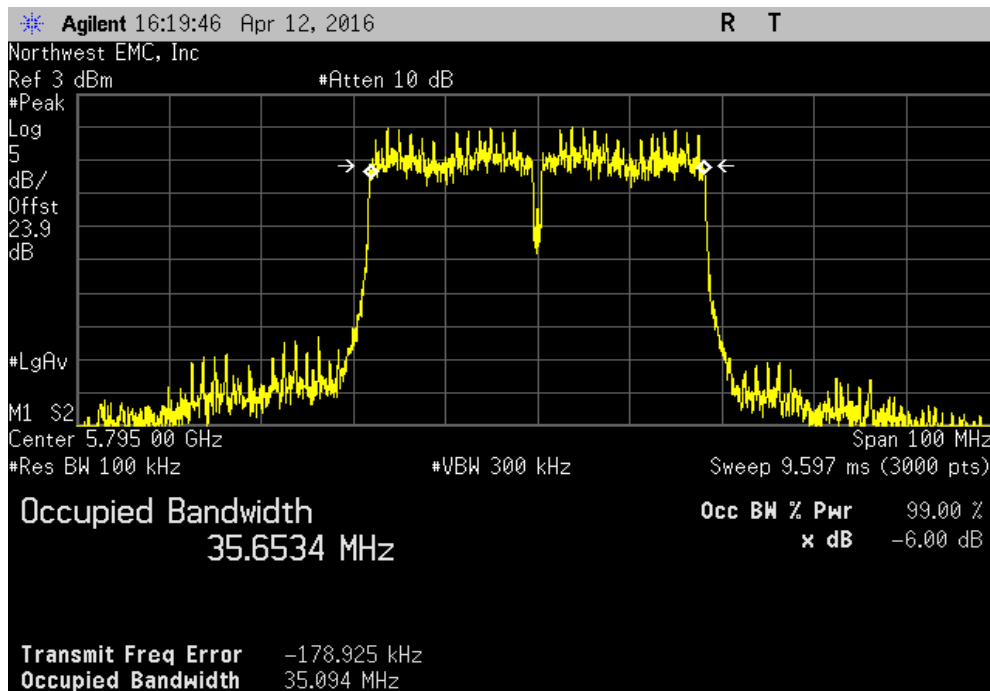


# OCCUPIED BANDWIDTH

| 2x2 MIMO, Chain A, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(ac) MCS0 |  |  |  |            |         |        |
|-----------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                                   |  |  |  | Value      | Limit   | Result |
|                                                                                   |  |  |  | 35.243 MHz | 500 kHz | Pass   |

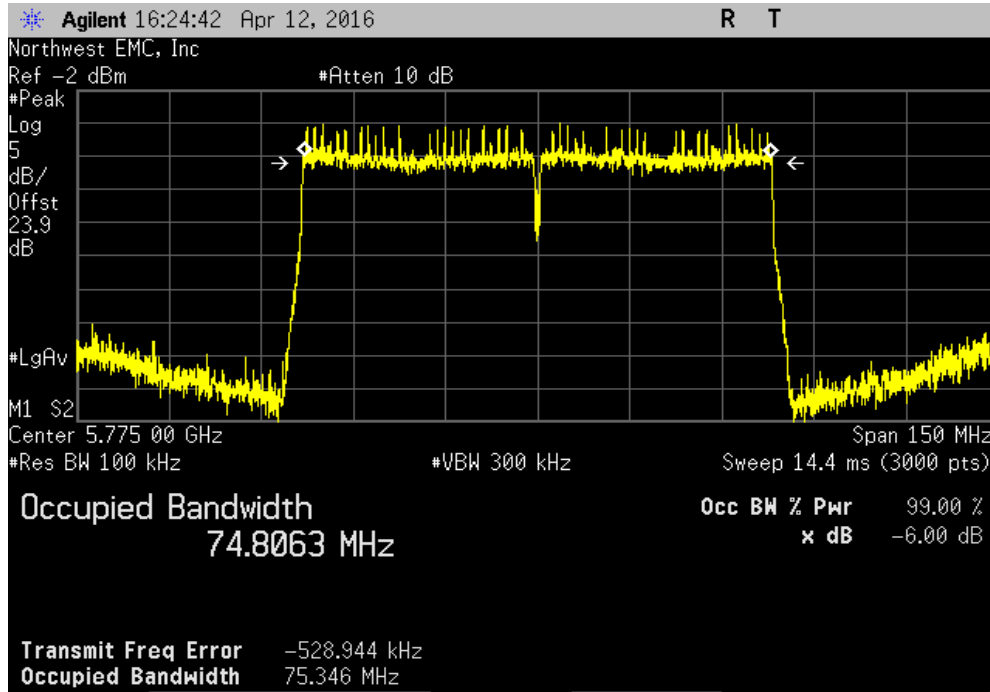


| 2x2 MIMO, Chain A, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(ac) MCS9 |  |  |  |            |         |        |
|-----------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                                   |  |  |  | Value      | Limit   | Result |
|                                                                                   |  |  |  | 35.094 MHz | 500 kHz | Pass   |

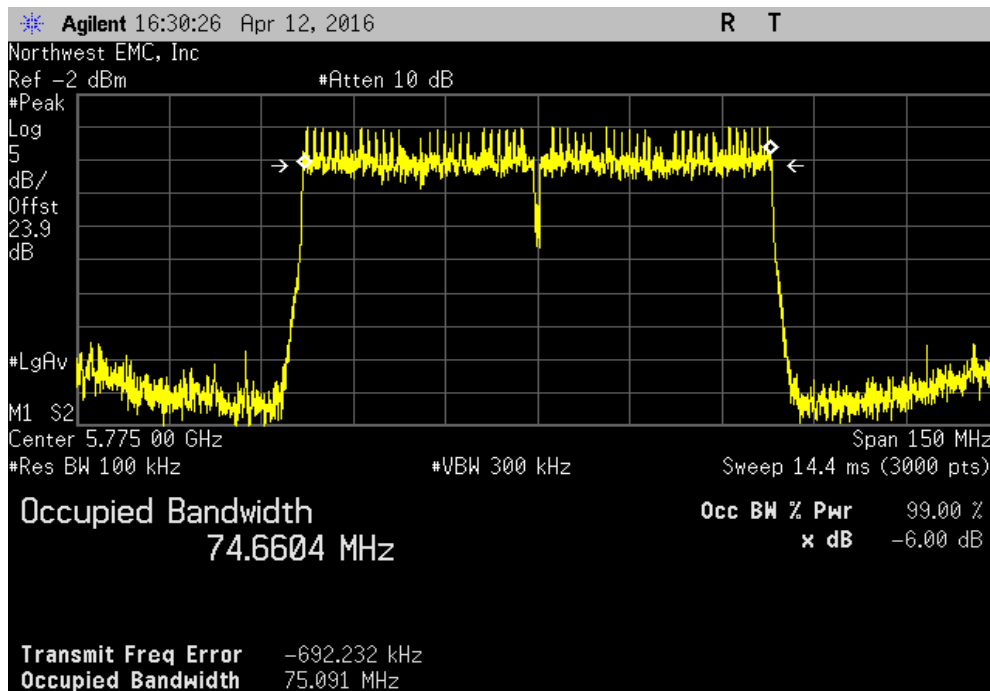


# OCCUPIED BANDWIDTH

| 2x2 MIMO, Chain A, 80MHz BW, Mid Channel, Ch 149/161 - 5775 MHz, 802.11(ac) MCS0 |  |  |  |            |         |        |
|----------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                                  |  |  |  | Value      | Limit   | Result |
|                                                                                  |  |  |  | 75.346 MHz | 500 kHz | Pass   |

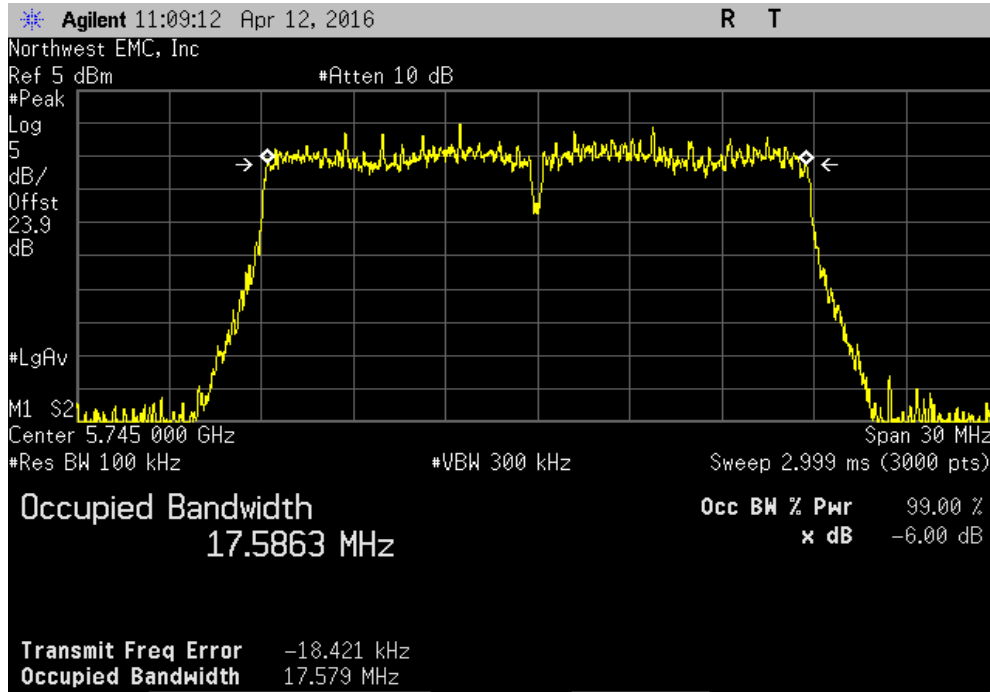


| 2x2 MIMO, Chain A, 80MHz BW, Mid Channel, Ch 149/161 - 5775 MHz, 802.11(ac) MCS9 |  |  |  |            |         |        |
|----------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                                  |  |  |  | Value      | Limit   | Result |
|                                                                                  |  |  |  | 75.091 MHz | 500 kHz | Pass   |

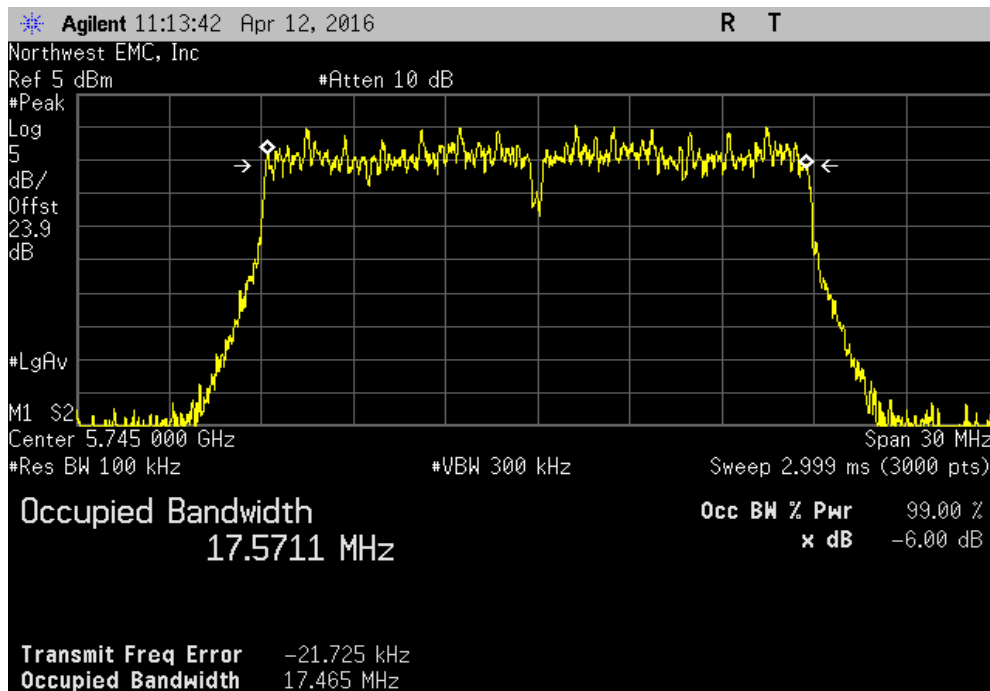


# OCCUPIED BANDWIDTH

| 2x2 MIMO, Chain B, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(n) MCS8 |  |  |  |            |         |        |
|-----------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                             |  |  |  | Value      | Limit   | Result |
|                                                                             |  |  |  | 17.579 MHz | 500 kHz | Pass   |

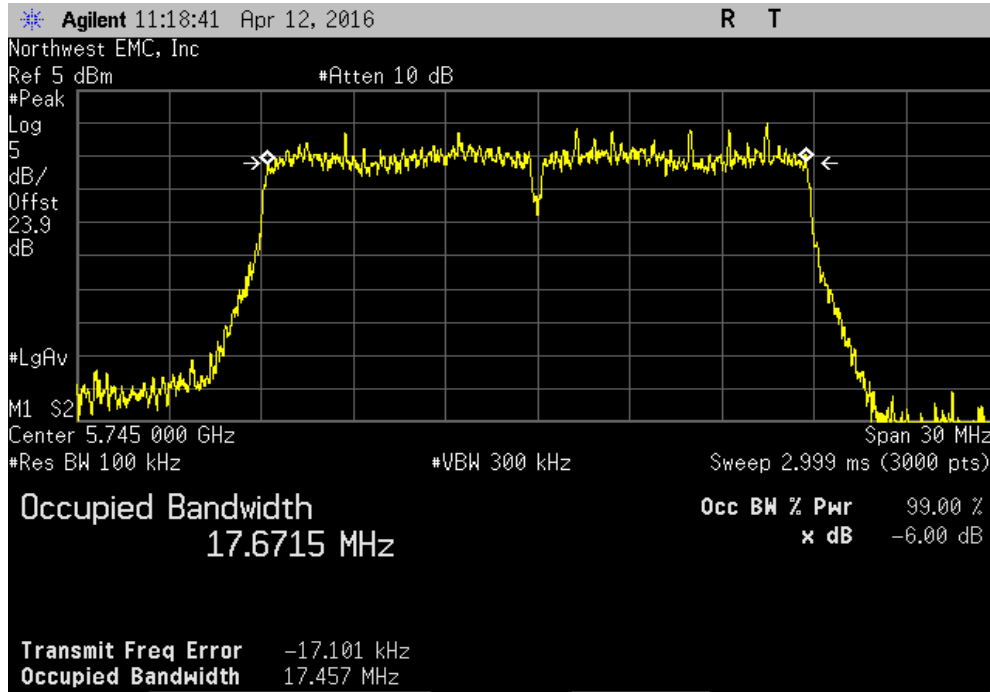


| 2x2 MIMO, Chain B, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(n) MCS15 |  |  |  |            |         |        |
|------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                              |  |  |  | Value      | Limit   | Result |
|                                                                              |  |  |  | 17.465 MHz | 500 kHz | Pass   |

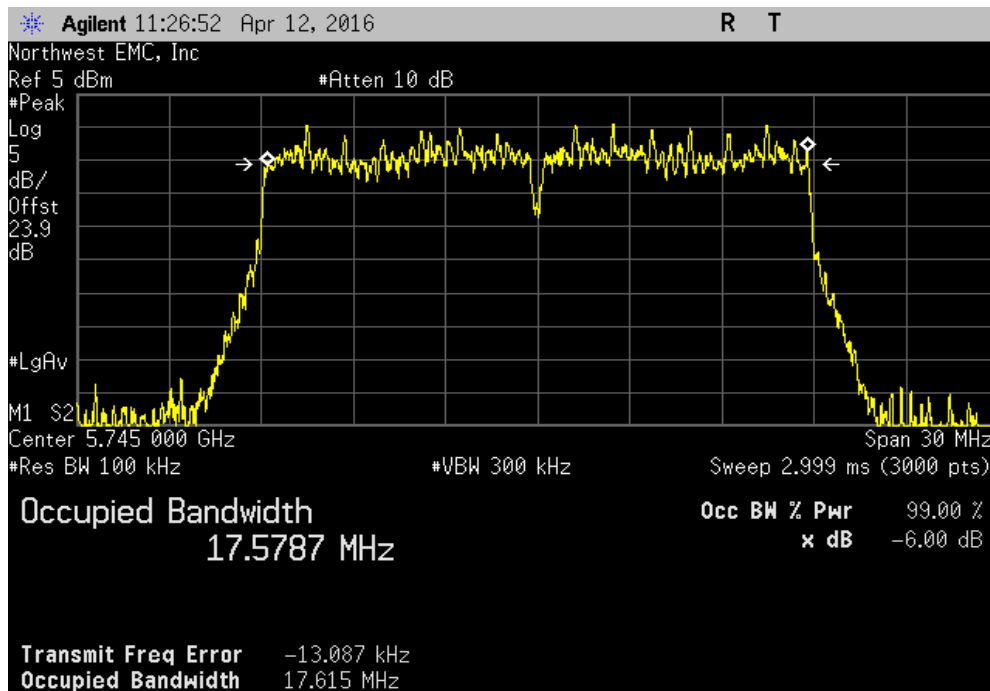


# OCCUPIED BANDWIDTH

| 2x2 MIMO, Chain B, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(ac) MCS0 |  |  |  |            |         |        |
|------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                              |  |  |  | Value      | Limit   | Result |
|                                                                              |  |  |  |            | (>)     |        |
|                                                                              |  |  |  | 17.457 MHz | 500 kHz | Pass   |



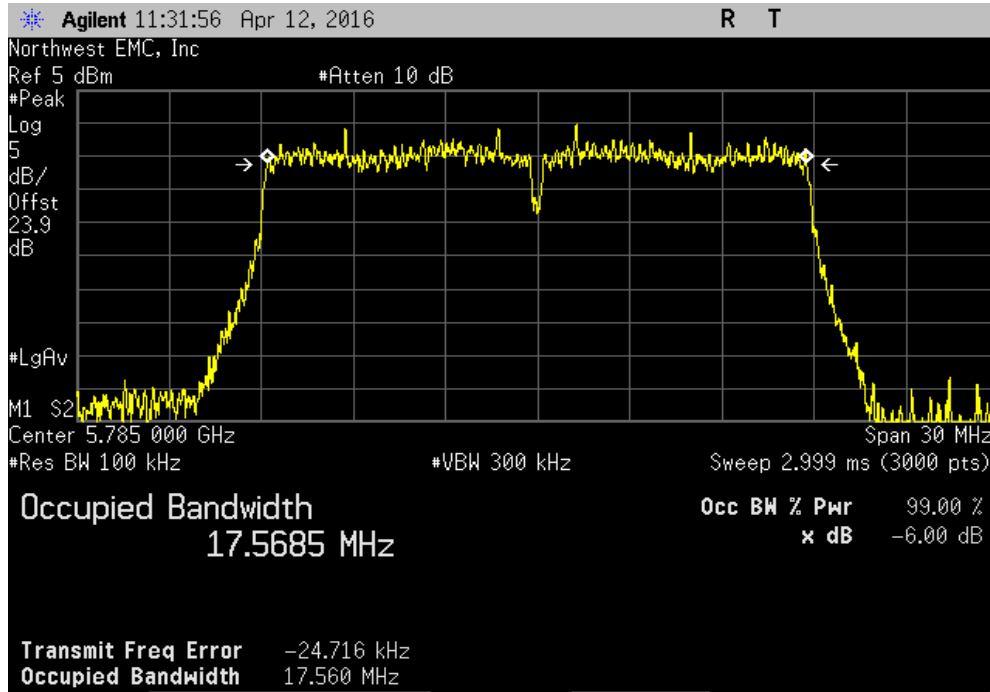
| 2x2 MIMO, Chain B, 20MHz BW, Low Channel, Ch 149 - 5745 MHz, 802.11(ac) MCS8 |  |  |  |            |         |        |
|------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                              |  |  |  | Value      | Limit   | Result |
|                                                                              |  |  |  |            | (>)     |        |
|                                                                              |  |  |  | 17.615 MHz | 500 kHz | Pass   |



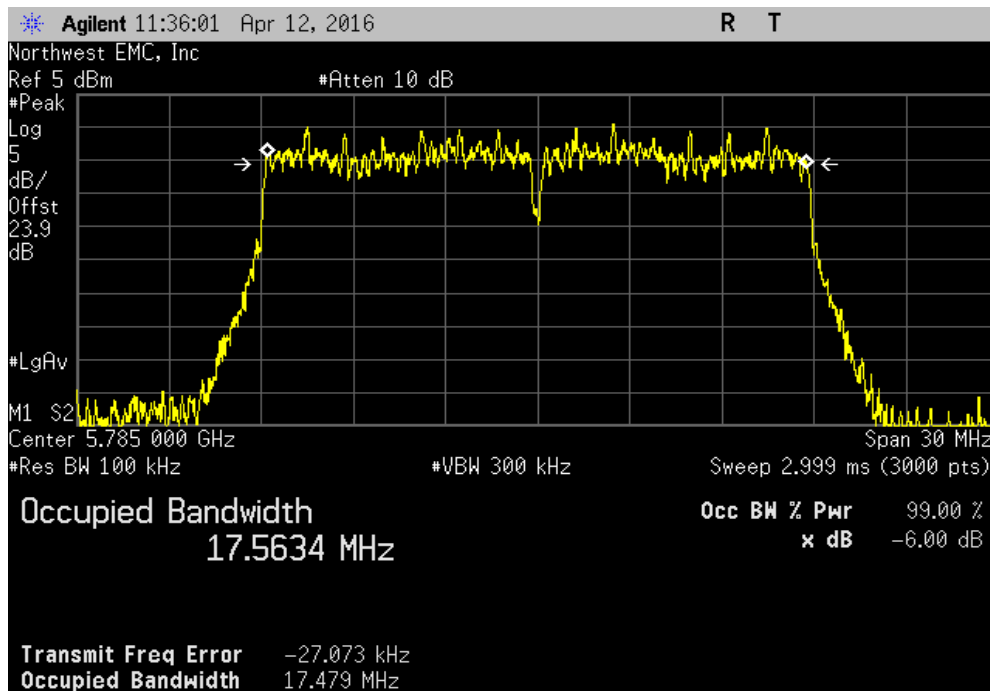


# OCCUPIED BANDWIDTH

| 2x2 MIMO, Chain B, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(n) MCS8 |  |  |  |           |         |        |
|-----------------------------------------------------------------------------|--|--|--|-----------|---------|--------|
|                                                                             |  |  |  | Value     | Limit   | Result |
|                                                                             |  |  |  | 17.56 MHz | 500 kHz | Pass   |

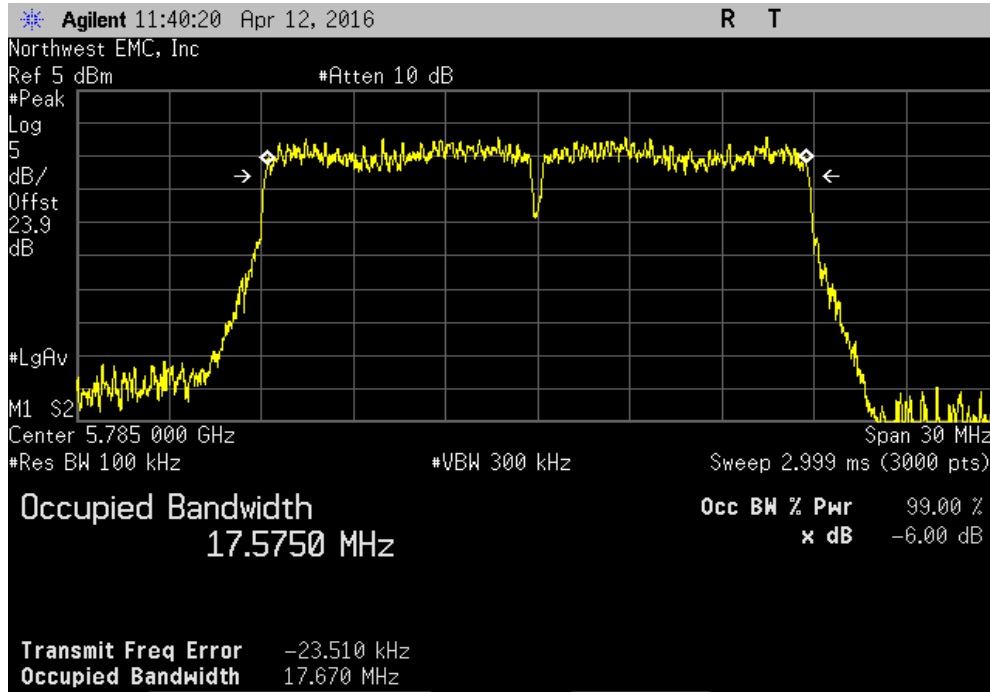


| 2x2 MIMO, Chain B, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(n) MCS15 |  |  |  |            |         |        |
|------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                              |  |  |  | Value      | Limit   | Result |
|                                                                              |  |  |  | 17.479 MHz | 500 kHz | Pass   |

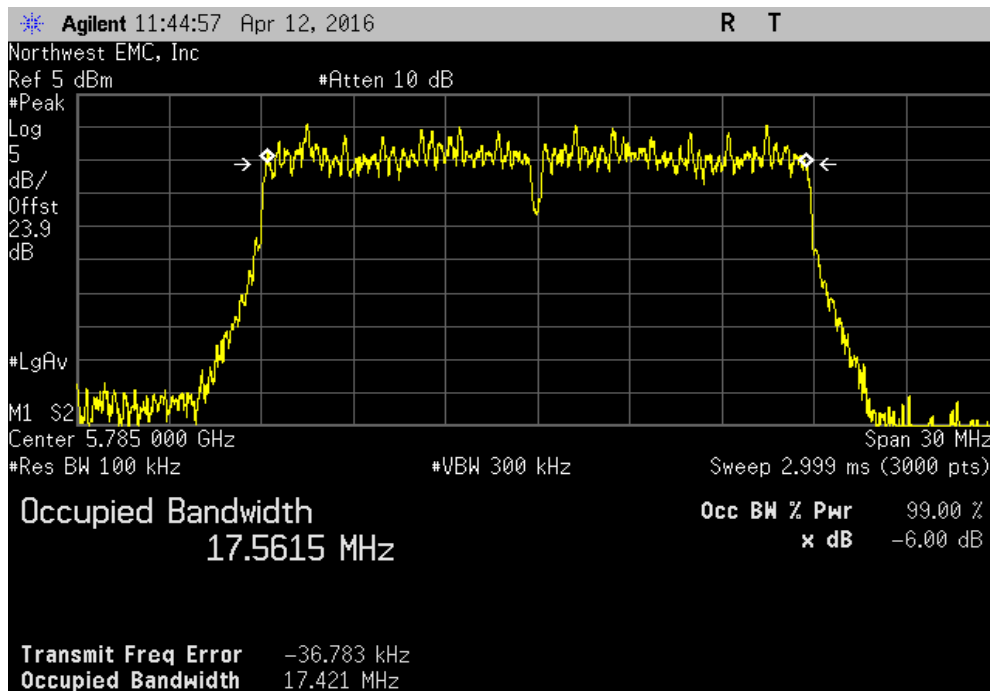


# OCCUPIED BANDWIDTH

| 2x2 MIMO, Chain B, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(ac) MCS0 |  |  |  |           |         |        |
|------------------------------------------------------------------------------|--|--|--|-----------|---------|--------|
|                                                                              |  |  |  | Value     | Limit   | Result |
|                                                                              |  |  |  | 17.67 MHz | 500 kHz | Pass   |

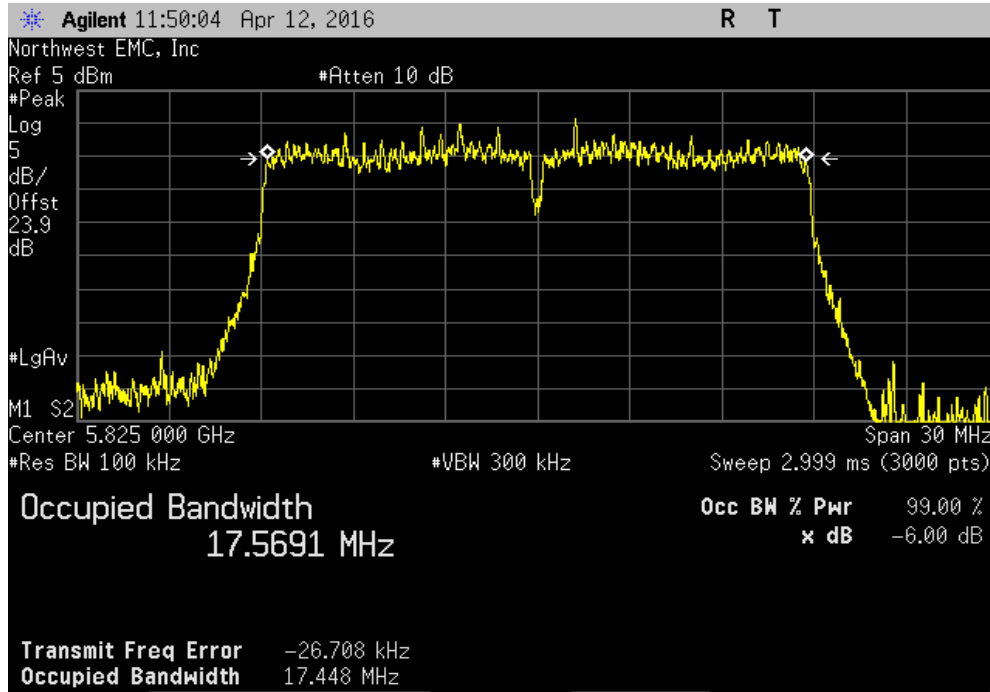


| 2x2 MIMO, Chain B, 20MHz BW, Mid Channel, Ch 157 - 5785 MHz, 802.11(ac) MCS8 |  |  |  |            |         |        |
|------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                              |  |  |  | Value      | Limit   | Result |
|                                                                              |  |  |  | 17.421 MHz | 500 kHz | Pass   |

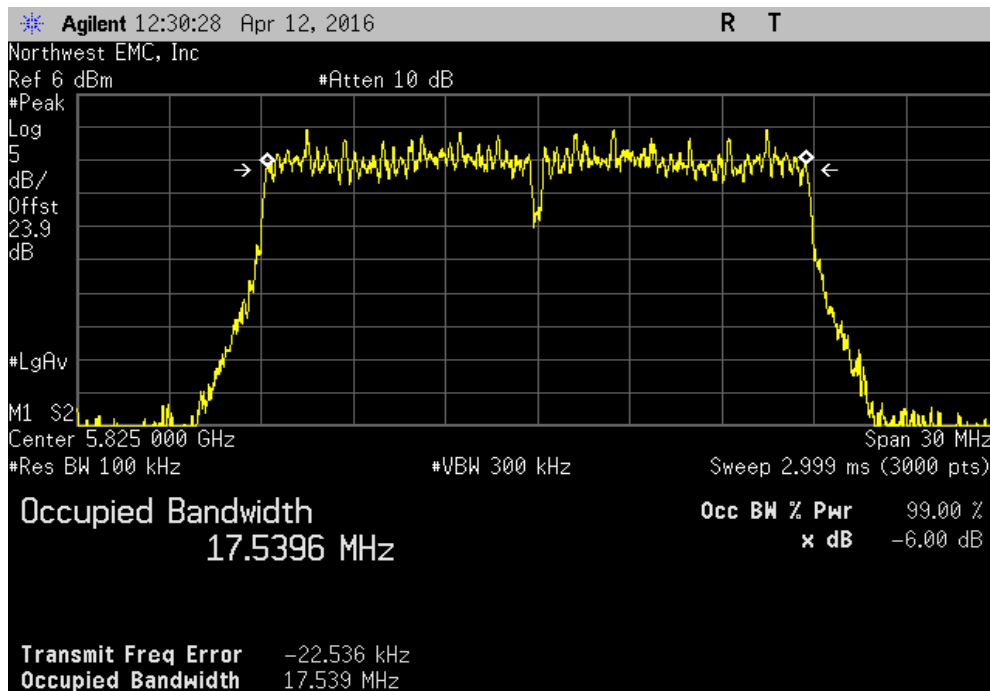


# OCCUPIED BANDWIDTH

| 2x2 MIMO, Chain B, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(n) MCS8 |  |  |  |            |         |        |
|------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                              |  |  |  | Value      | Limit   | Result |
|                                                                              |  |  |  | 17.448 MHz | 500 kHz | Pass   |

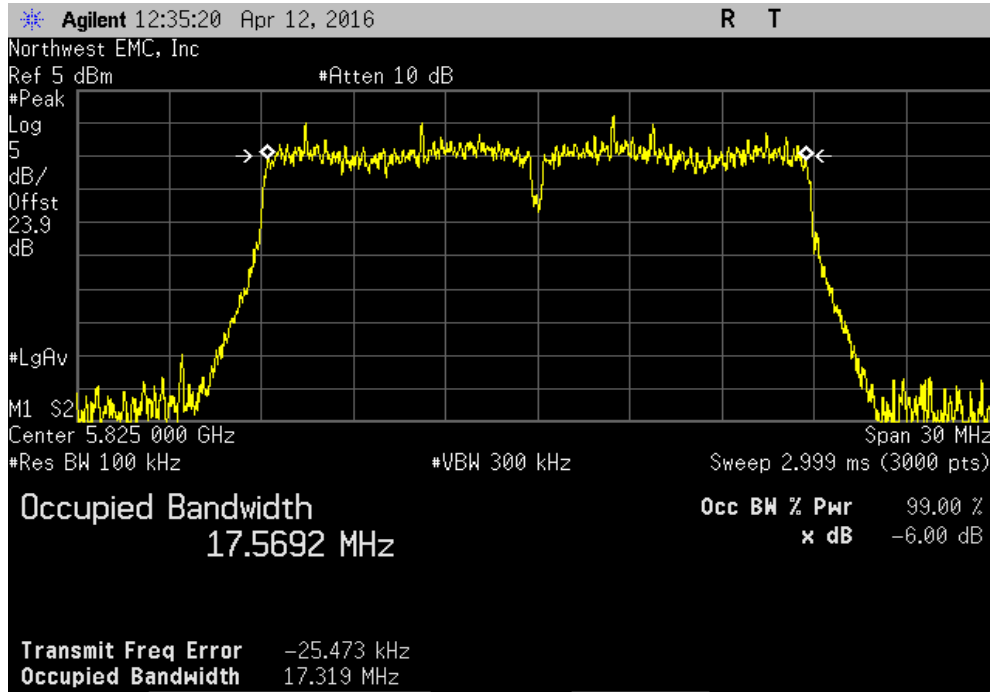


| 2x2 MIMO, Chain B, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(n) MCS15 |  |  |  |            |         |        |
|-------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                               |  |  |  | Value      | Limit   | Result |
|                                                                               |  |  |  | 17.539 MHz | 500 kHz | Pass   |

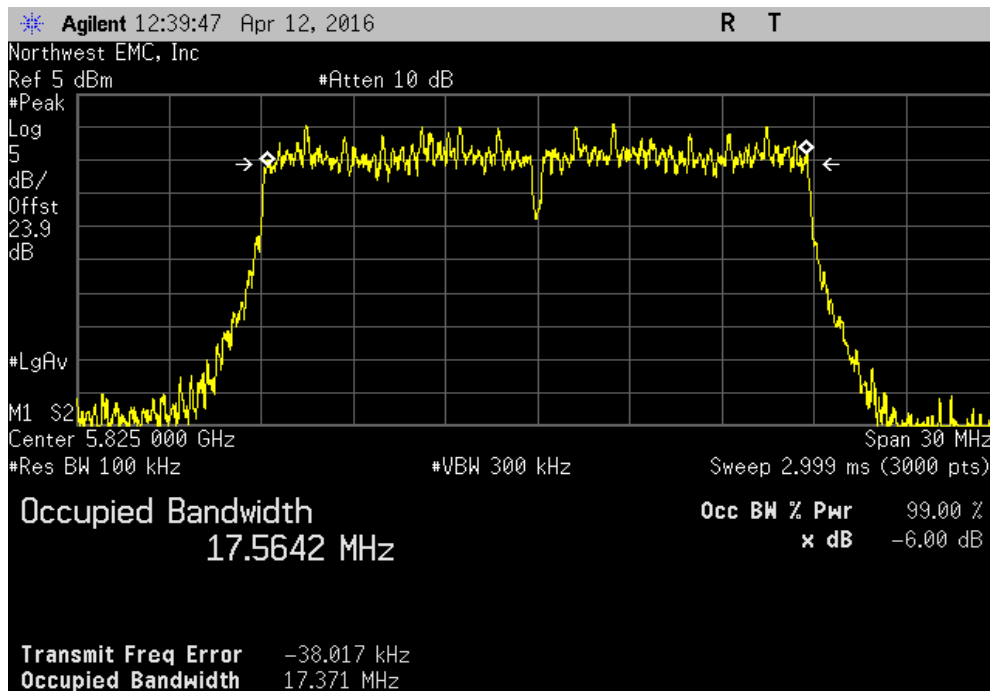


# OCCUPIED BANDWIDTH

| 2x2 MIMO, Chain B, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(ac) MCS0 |  |  |  |            |         |        |
|-------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                               |  |  |  | Value      | Limit   | Result |
|                                                                               |  |  |  | 17.319 MHz | 500 kHz | Pass   |

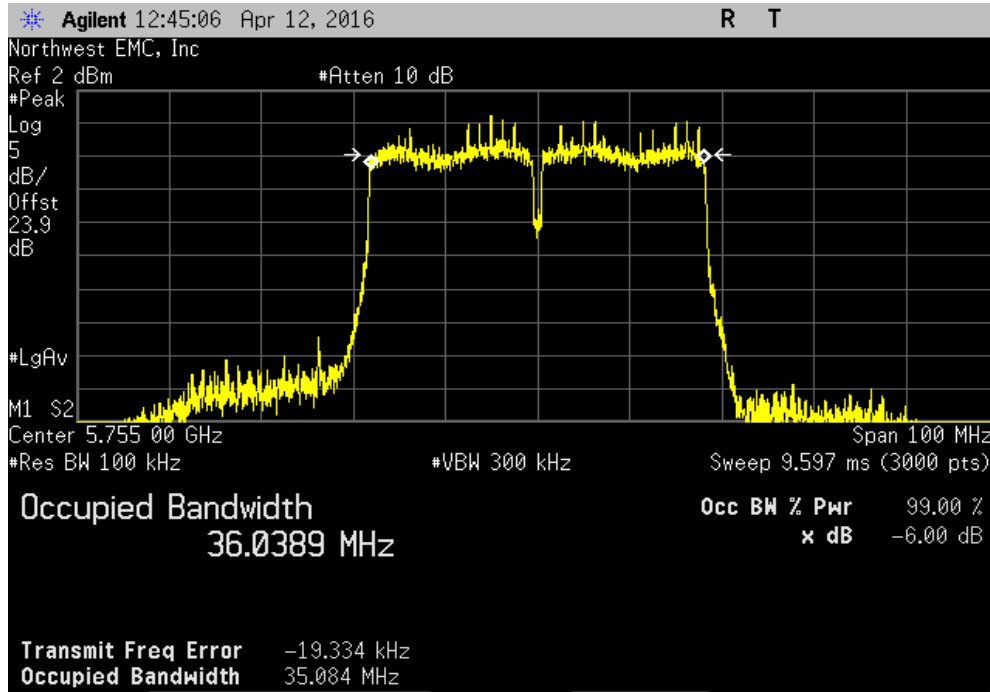


| 2x2 MIMO, Chain B, 20MHz BW, High Channel, Ch 165 - 5825 MHz, 802.11(ac) MCS8 |  |  |  |            |         |        |
|-------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                               |  |  |  | Value      | Limit   | Result |
|                                                                               |  |  |  | 17.371 MHz | 500 kHz | Pass   |

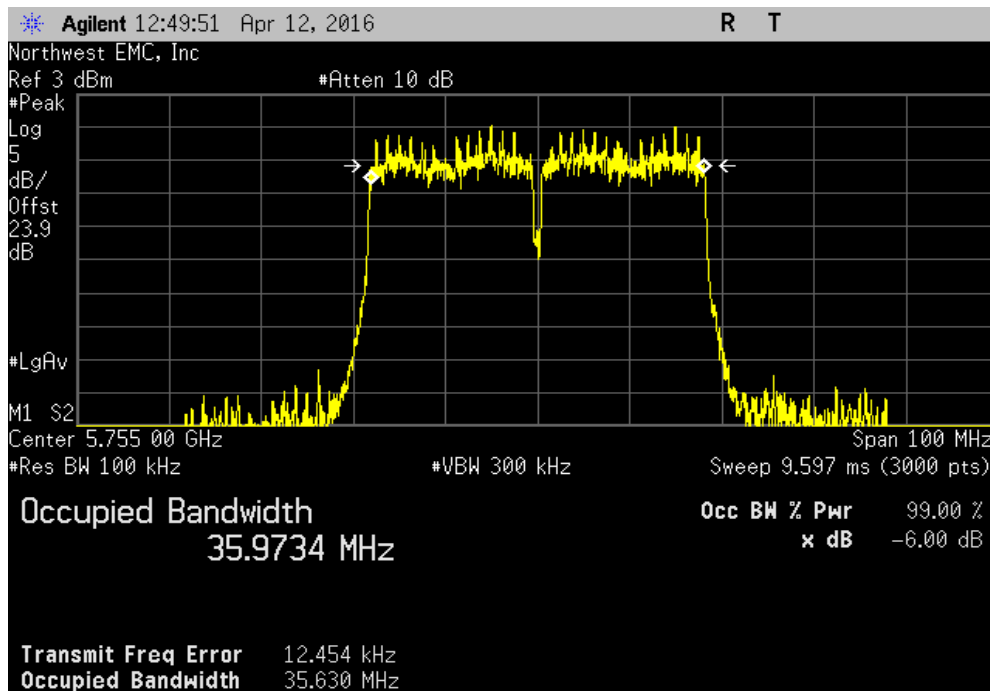


# OCCUPIED BANDWIDTH

| 2x2 MIMO, Chain B, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(n) MCS8 |  |  |            |         |        |  |
|---------------------------------------------------------------------------------|--|--|------------|---------|--------|--|
|                                                                                 |  |  | Value      | Limit   | Result |  |
|                                                                                 |  |  | (>)        |         |        |  |
|                                                                                 |  |  | 35.084 MHz | 500 kHz | Pass   |  |

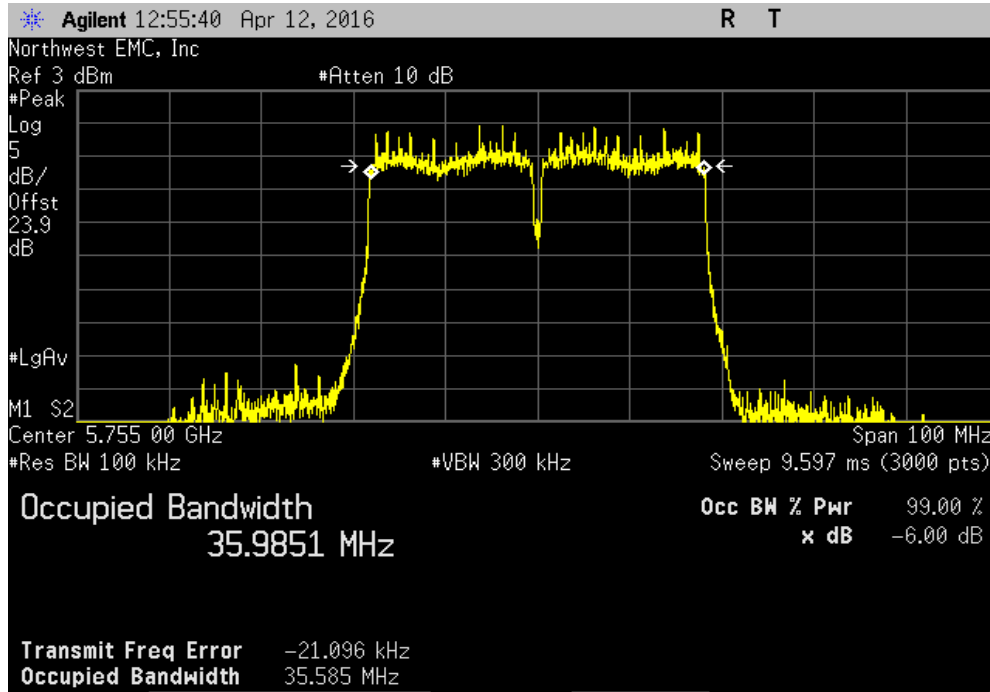


| 2x2 MIMO, Chain B, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(n) MCS15 |  |  |           |         |        |  |
|----------------------------------------------------------------------------------|--|--|-----------|---------|--------|--|
|                                                                                  |  |  | Value     | Limit   | Result |  |
|                                                                                  |  |  | (>)       |         |        |  |
|                                                                                  |  |  | 35.63 MHz | 500 kHz | Pass   |  |

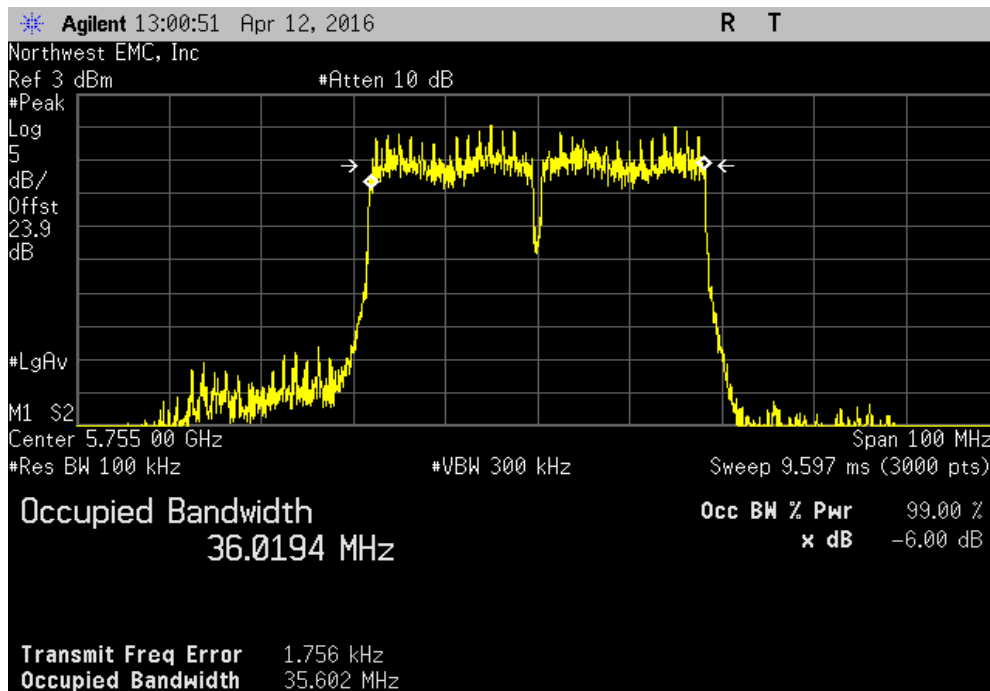


# OCCUPIED BANDWIDTH

| 2x2 MIMO, Chain B, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(ac) MCS0 |  |  |  |            |         |        |
|----------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                                  |  |  |  | Value      | Limit   | Result |
|                                                                                  |  |  |  | 35.585 MHz | 500 kHz | Pass   |

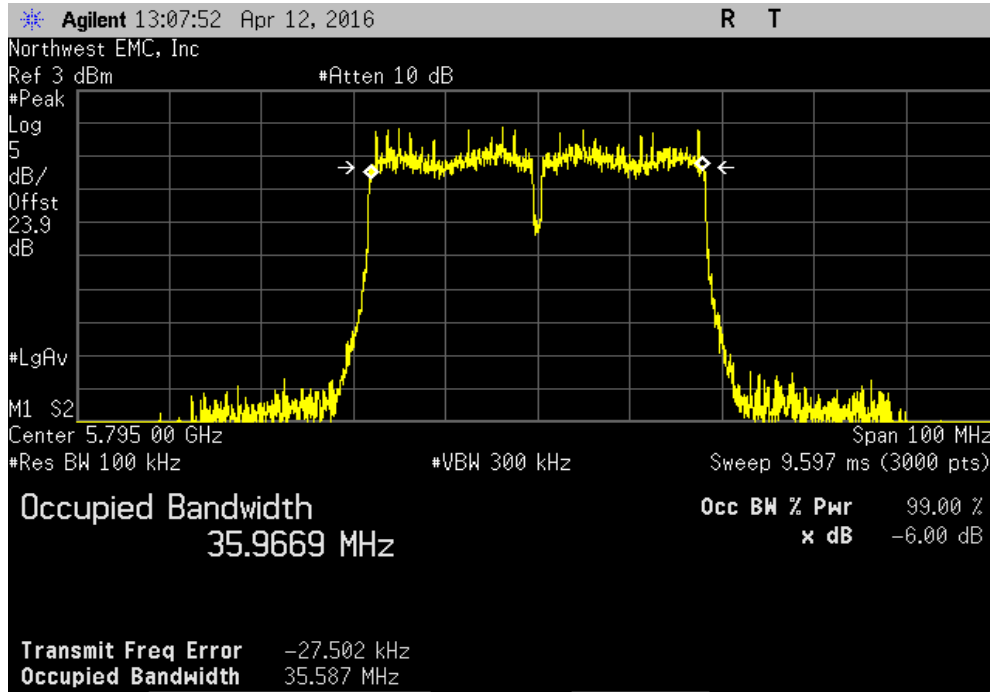


| 2x2 MIMO, Chain B, 40MHz BW, Low Channel, Ch 149/153 - 5755 MHz, 802.11(ac) MCS9 |  |  |  |            |         |        |
|----------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                                  |  |  |  | Value      | Limit   | Result |
|                                                                                  |  |  |  | 35.602 MHz | 500 kHz | Pass   |

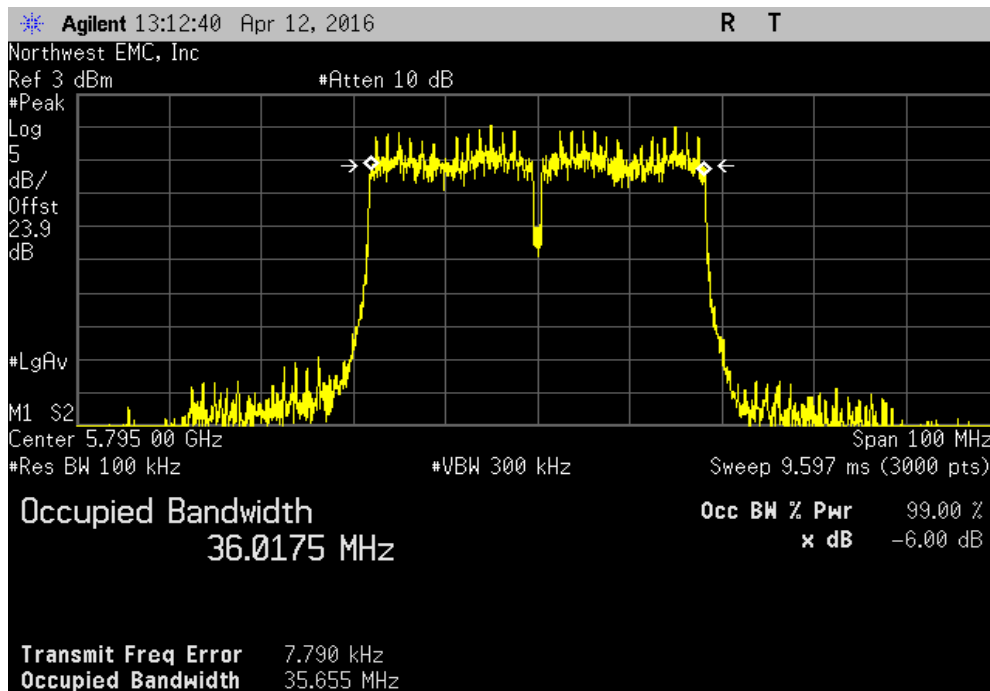


# OCCUPIED BANDWIDTH

| 2x2 MIMO, Chain B, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(n) MCS8 |  |  |  |            |         |        |
|----------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                                  |  |  |  | Value      | Limit   | Result |
|                                                                                  |  |  |  |            | (>)     |        |
|                                                                                  |  |  |  | 35.587 MHz | 500 kHz | Pass   |

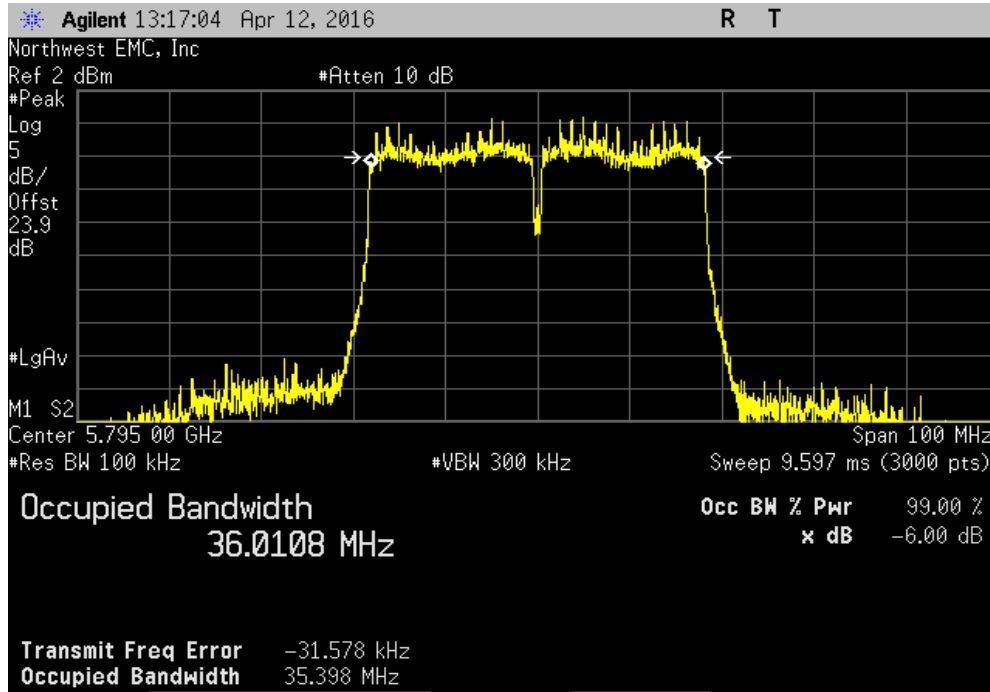


| 2x2 MIMO, Chain B, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(n) MCS15 |  |  |  |            |         |        |
|-----------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                                   |  |  |  | Value      | Limit   | Result |
|                                                                                   |  |  |  |            | (>)     |        |
|                                                                                   |  |  |  | 35.655 MHz | 500 kHz | Pass   |

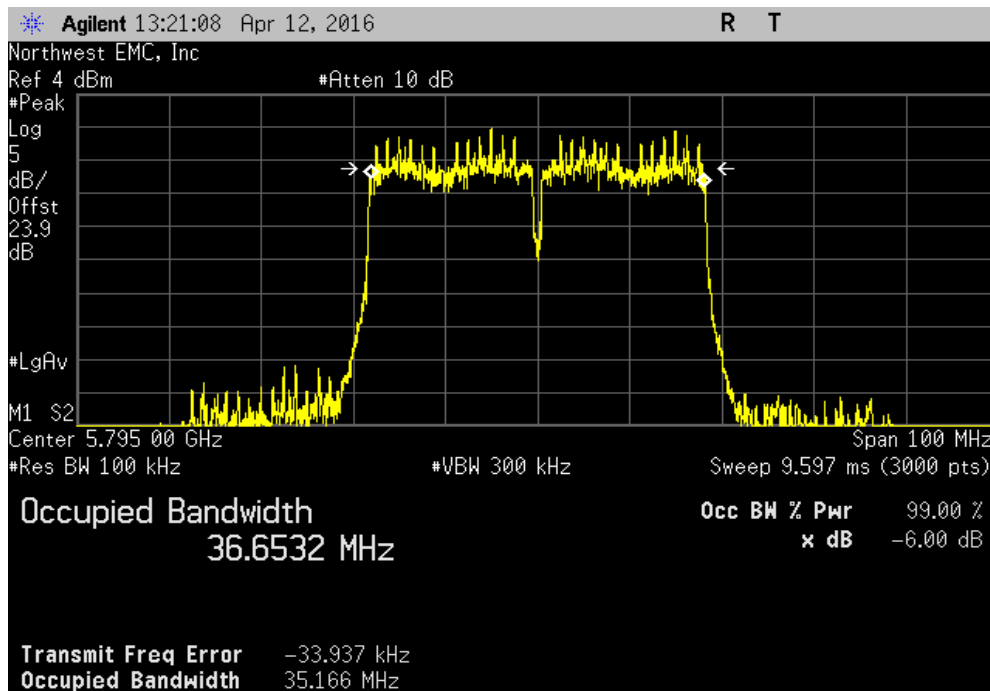


# OCCUPIED BANDWIDTH

| 2x2 MIMO, Chain B, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(ac) MCS0 |  |  |  |            |         |        |
|-----------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                                   |  |  |  | Value      | Limit   | Result |
|                                                                                   |  |  |  | 35.398 MHz | 500 kHz | Pass   |



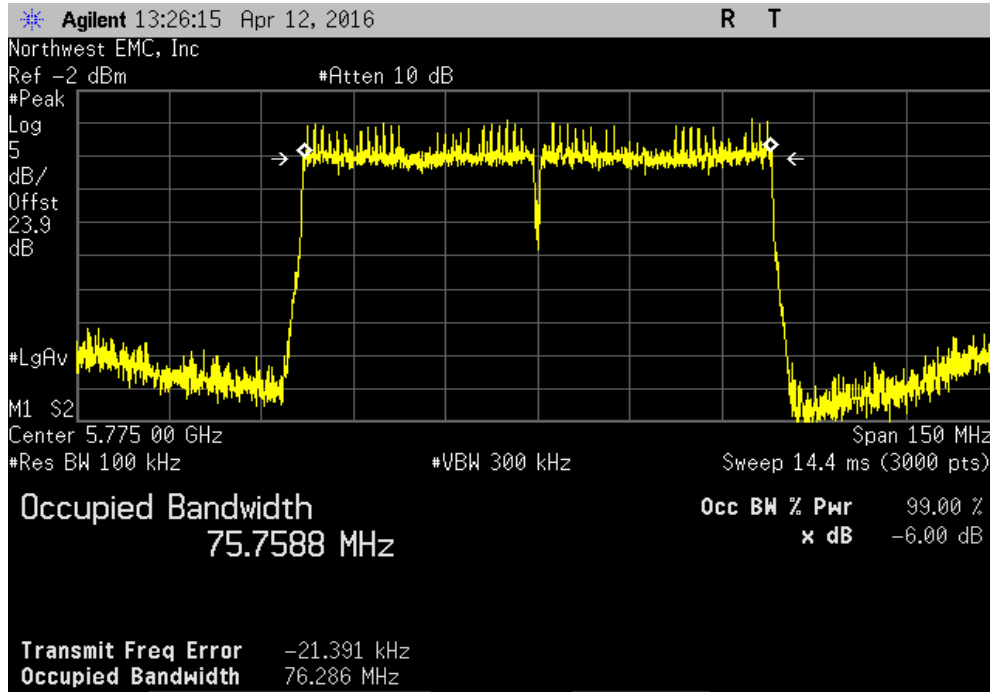
| 2x2 MIMO, Chain B, 40MHz BW, High Channel, Ch 157/161 - 5795 MHz, 802.11(ac) MCS9 |  |  |  |            |         |        |
|-----------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                                   |  |  |  | Value      | Limit   | Result |
|                                                                                   |  |  |  | 35.166 MHz | 500 kHz | Pass   |





# OCCUPIED BANDWIDTH

| 2x2 MIMO, Chain B, 80MHz BW, Mid Channel, Ch 149/161 - 5775 MHz, 802.11(ac) MCS0 |  |  |  |            |         |        |
|----------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                                  |  |  |  | Value      | Limit   | Result |
|                                                                                  |  |  |  | 76.286 MHz | 500 kHz | Pass   |



| 2x2 MIMO, Chain B, 80MHz BW, Mid Channel, Ch 149/161 - 5775 MHz, 802.11(ac) MCS9 |  |  |  |            |         |        |
|----------------------------------------------------------------------------------|--|--|--|------------|---------|--------|
|                                                                                  |  |  |  | Value      | Limit   | Result |
|                                                                                  |  |  |  | 76.362 MHz | 500 kHz | Pass   |

