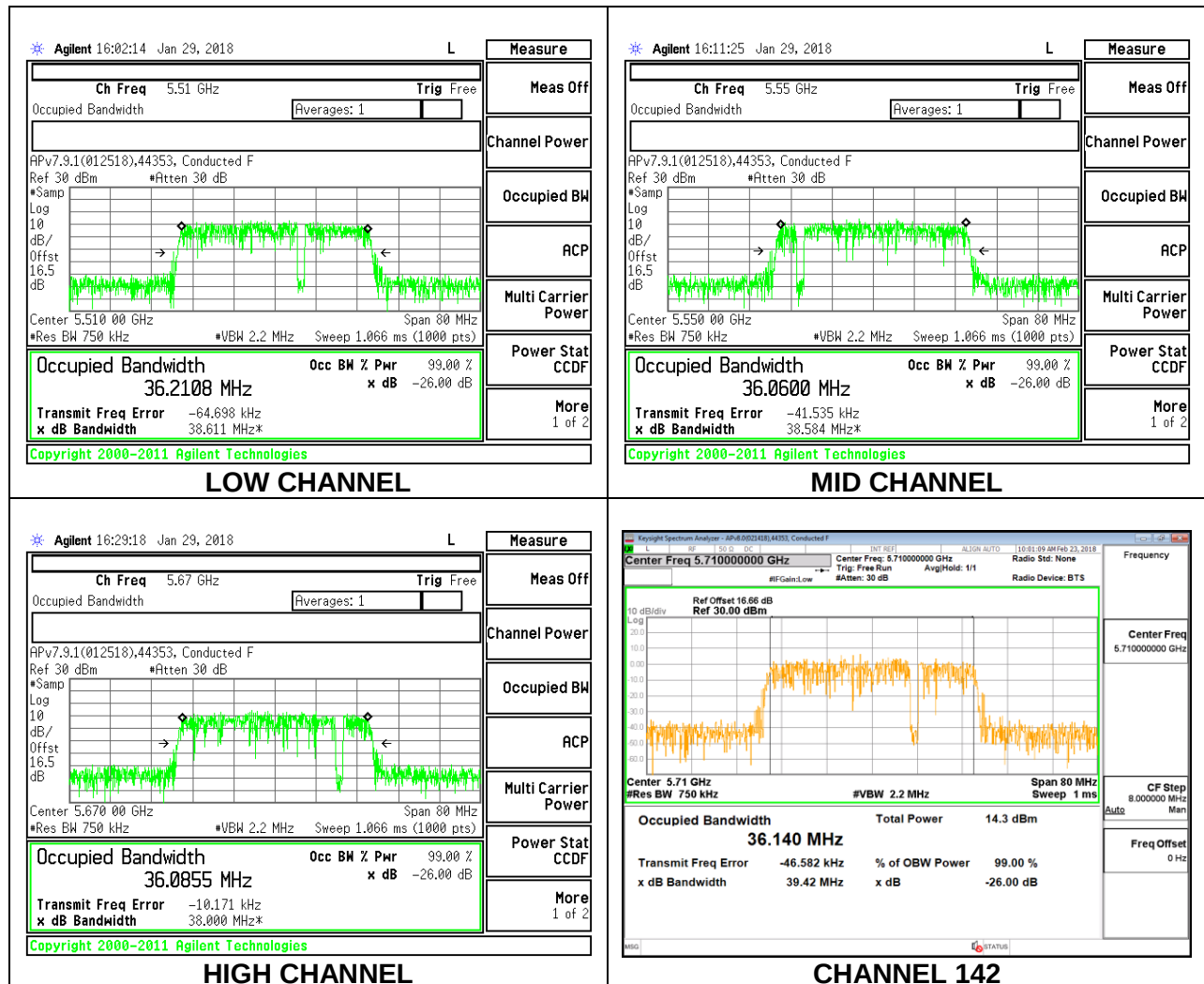


### 8.3.8. 802.11n HT40 MODE IN THE 5.6 GHz BAND

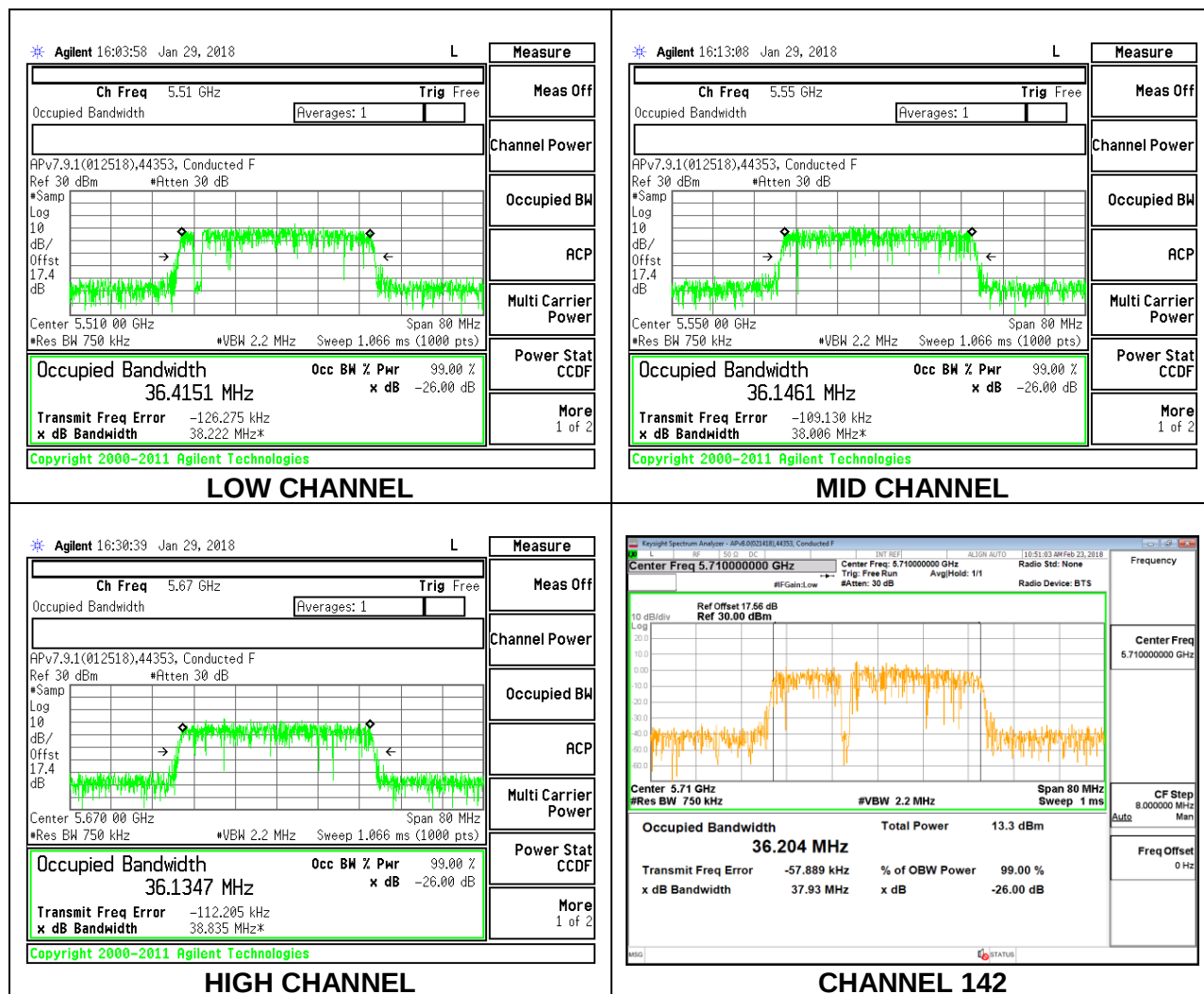
#### 1TX Antenna 6

| Channel | Frequency<br>(MHz) | 99% Bandwidth<br>(MHz) |
|---------|--------------------|------------------------|
| Low     | 5510               | 36.2110                |
| Mid     | 5550               | 36.0600                |
| High    | 5670               | 36.0860                |
| 142     | 5710               | 36.1400                |



**1TX Antenna 5**

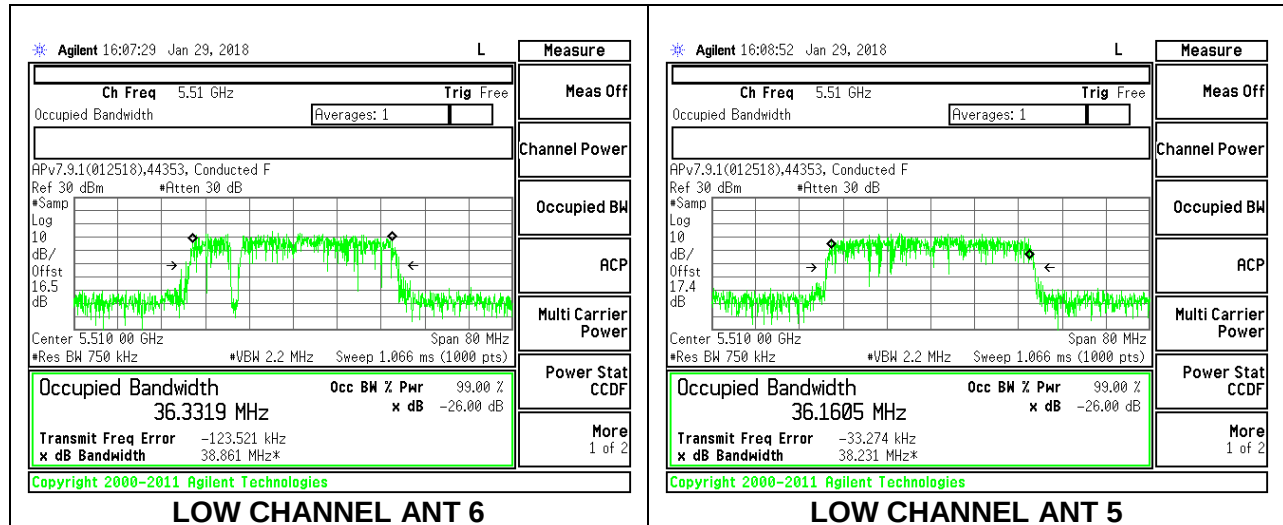
| Channel | Frequency<br>(MHz) | 99% Bandwidth<br>(MHz) |
|---------|--------------------|------------------------|
| Low     | 5510               | 36.4150                |
| Mid     | 5550               | 36.1460                |
| High    | 5670               | 36.1350                |
| 142     | 5710               | 36.2040                |



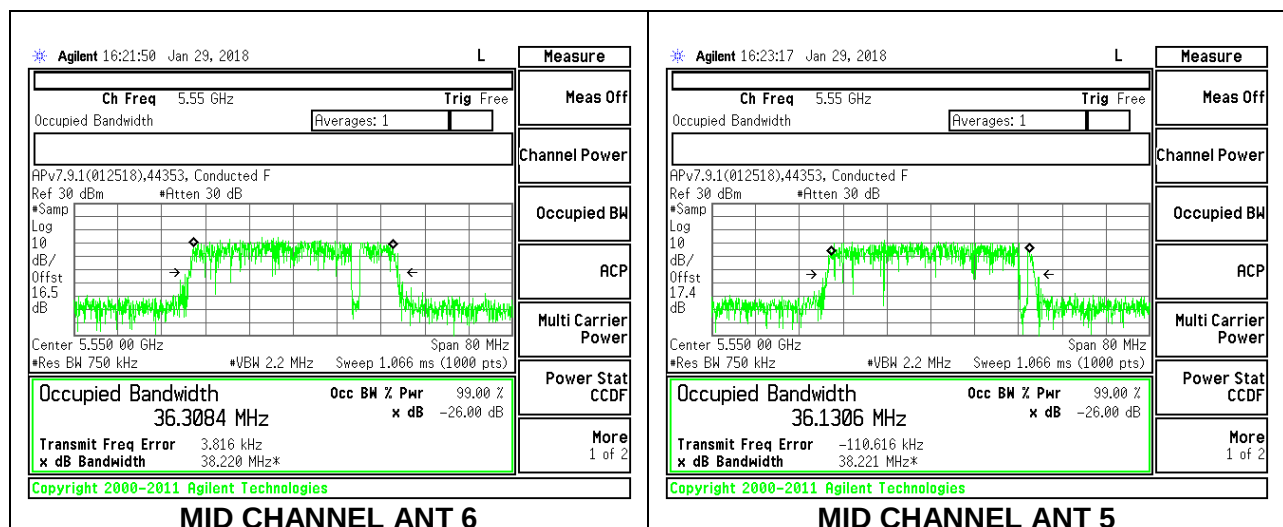
**2TX Antenna 6 + Antenna 5 CDD MODE**

| Channel | Frequency<br>(MHz) | 99% Bandwidth<br>Ant 6<br>(MHz) | 99% Bandwidth<br>Ant 5<br>(MHz) |
|---------|--------------------|---------------------------------|---------------------------------|
| Low     | 5510               | 36.3320                         | 36.1610                         |
| Mid     | 5550               | 36.3080                         | 36.1310                         |
| High    | 5670               | 36.0780                         | 36.2170                         |
| 142     | 5710               | 36.1570                         | 36.2630                         |

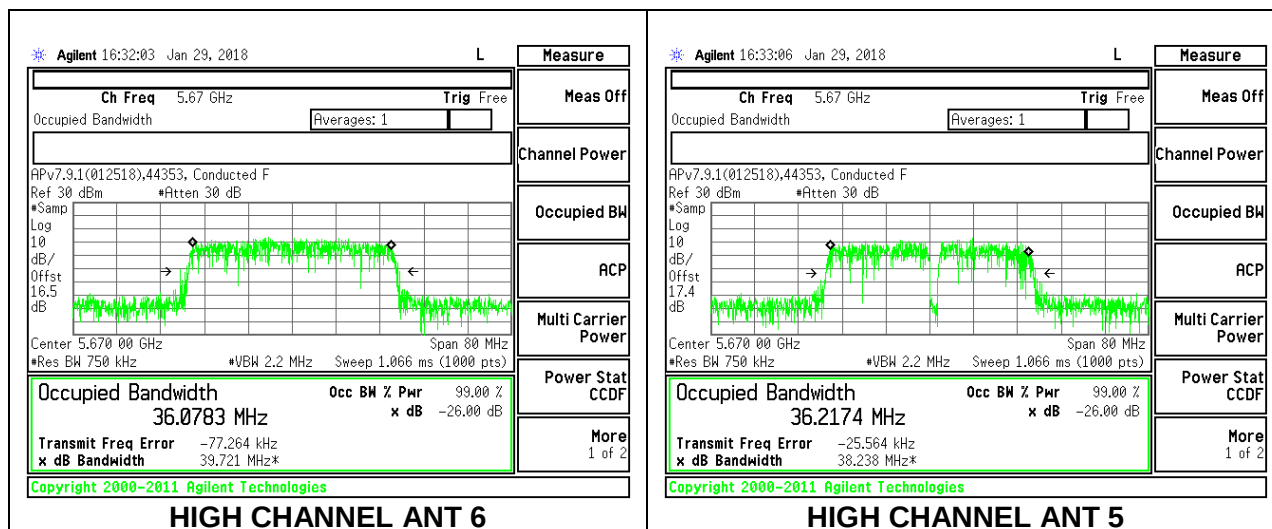
**LOW CHANNEL**



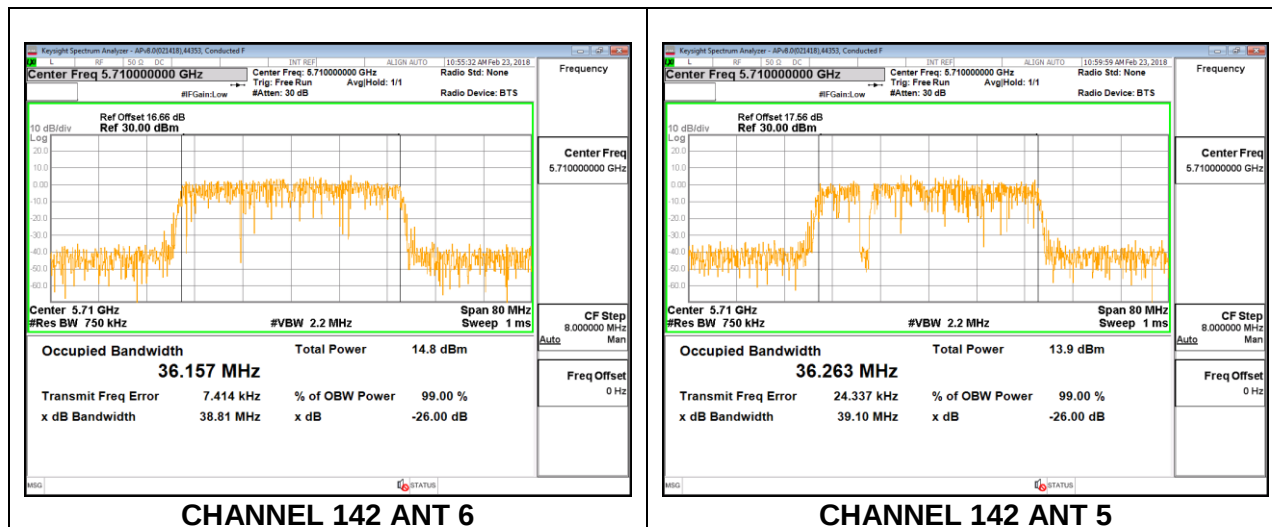
**MID CHANNEL**



## HIGH CHANNEL



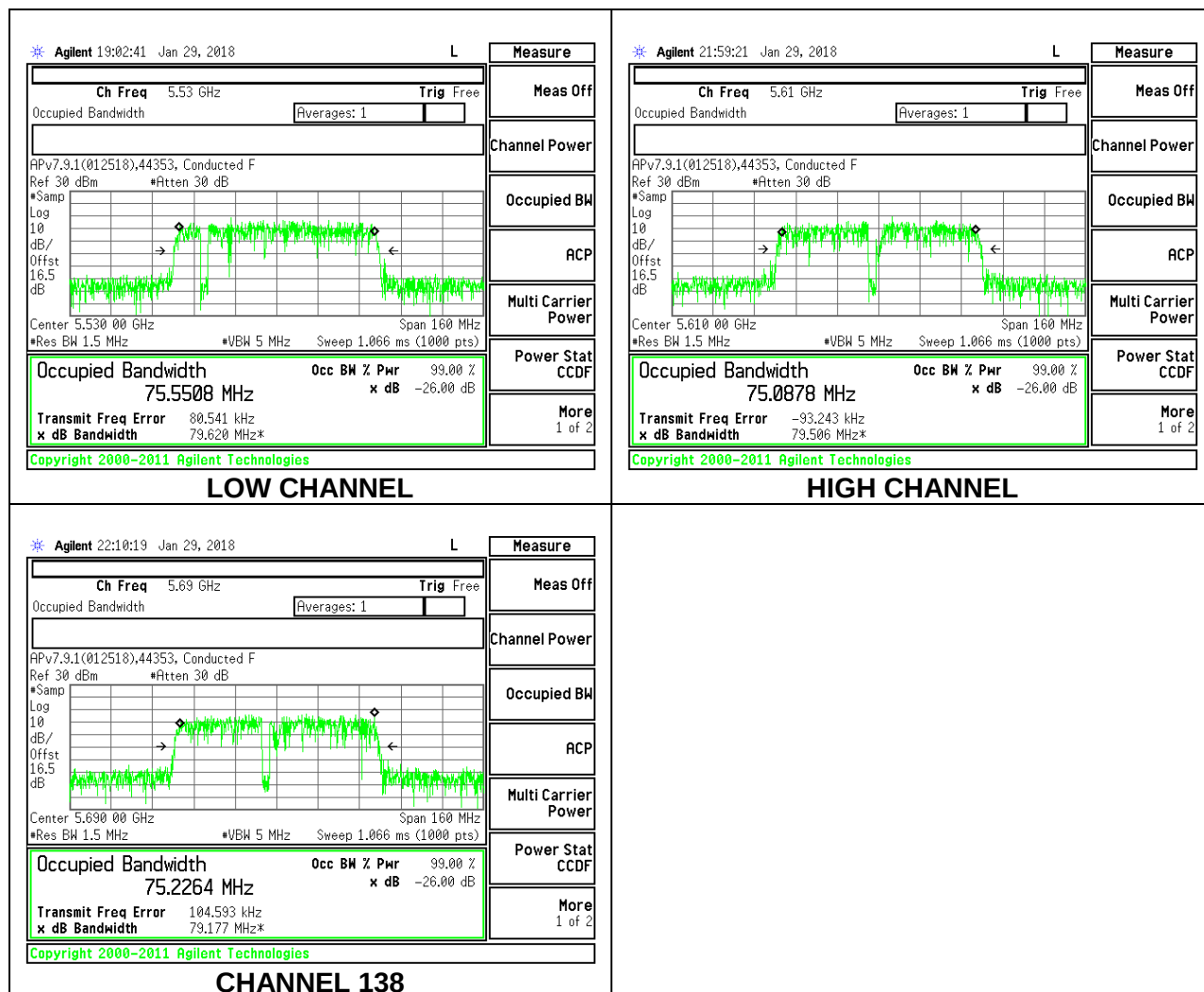
## CHANNEL 142



### 8.3.9. 802.11ac VHT80 MODE IN THE 5.6 GHz BAND

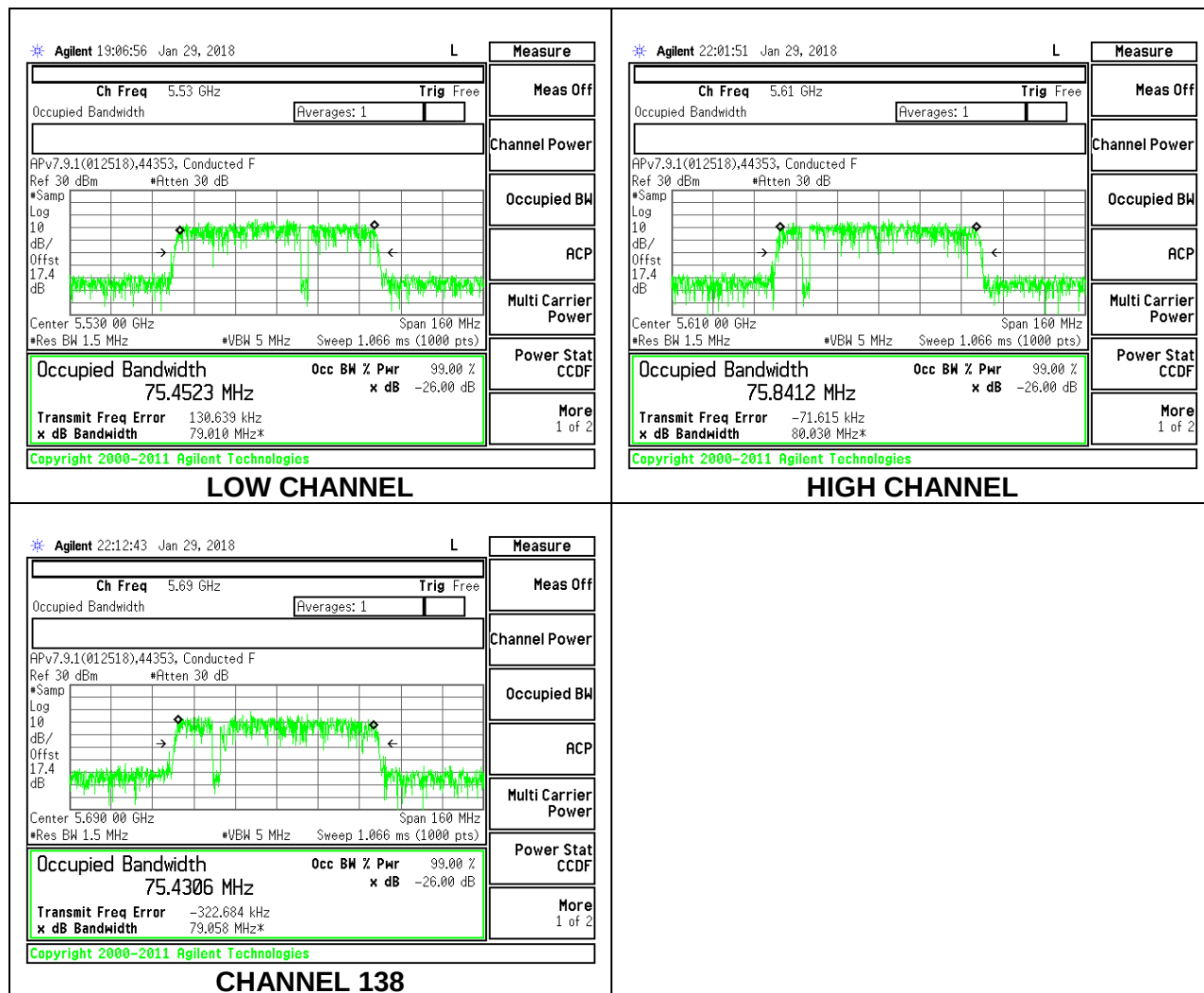
#### 1TX Antenna 6

| Channel | Frequency | 99% Bandwidth |
|---------|-----------|---------------|
|         | (MHz)     | (MHz)         |
| Low     | 5530      | 75.5510       |
| High    | 5610      | 75.0880       |
| 138     | 5690      | 75.2260       |



**1TX Antenna 5**

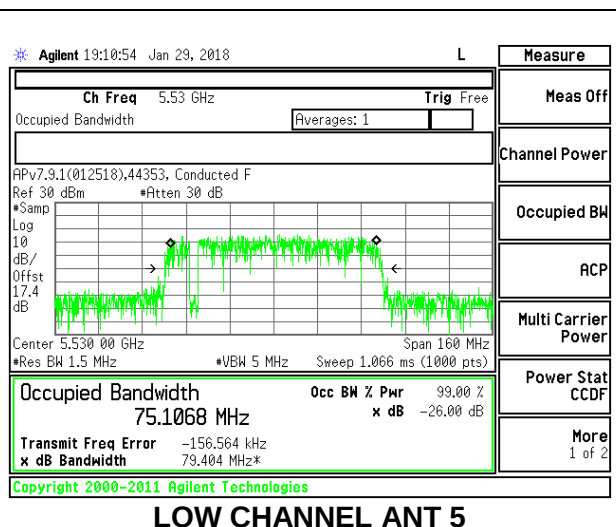
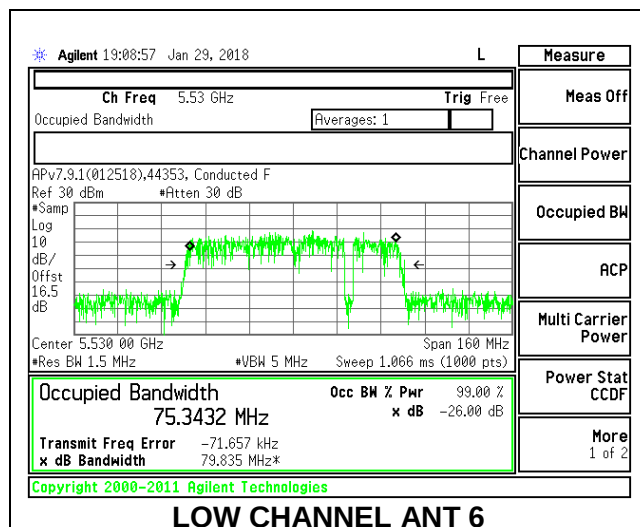
| Channel | Frequency | 99% Bandwidth |
|---------|-----------|---------------|
|         | (MHz)     | (MHz)         |
| Low     | 5530      | 75.4520       |
| High    | 5610      | 75.8410       |
| 138     | 5690      | 75.4310       |



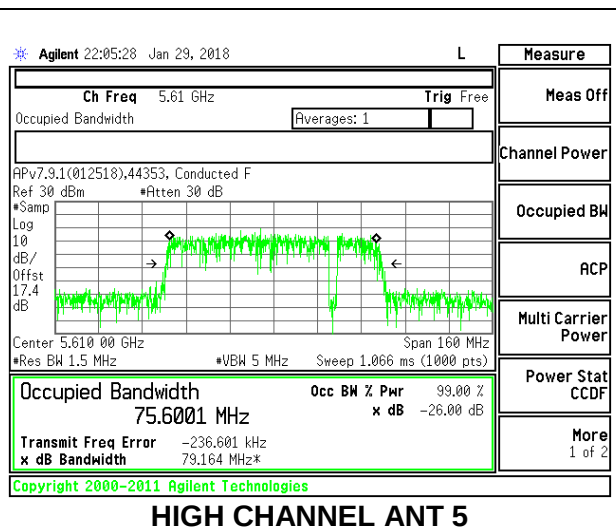
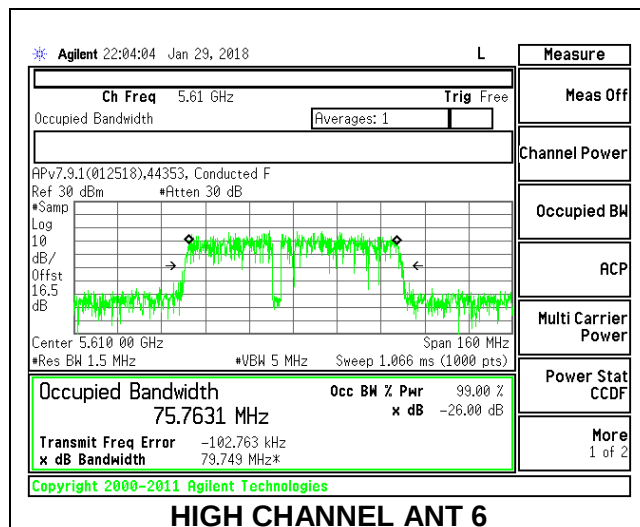
## 2TX Antenna 6 + Antenna 5 CDD MODE

| Channel | Frequency<br>(MHz) | 99% Bandwidth<br>Ant 6<br>(MHz) | 99% Bandwidth<br>Ant 5<br>(MHz) |
|---------|--------------------|---------------------------------|---------------------------------|
| Low     | 5530               | 75.3430                         | 75.1070                         |
| High    | 5610               | 75.7630                         | 75.6000                         |
| 138     | 5690               | 75.4590                         | 75.2500                         |

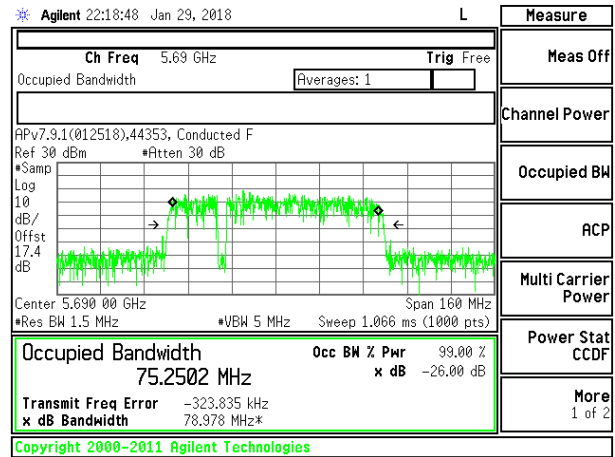
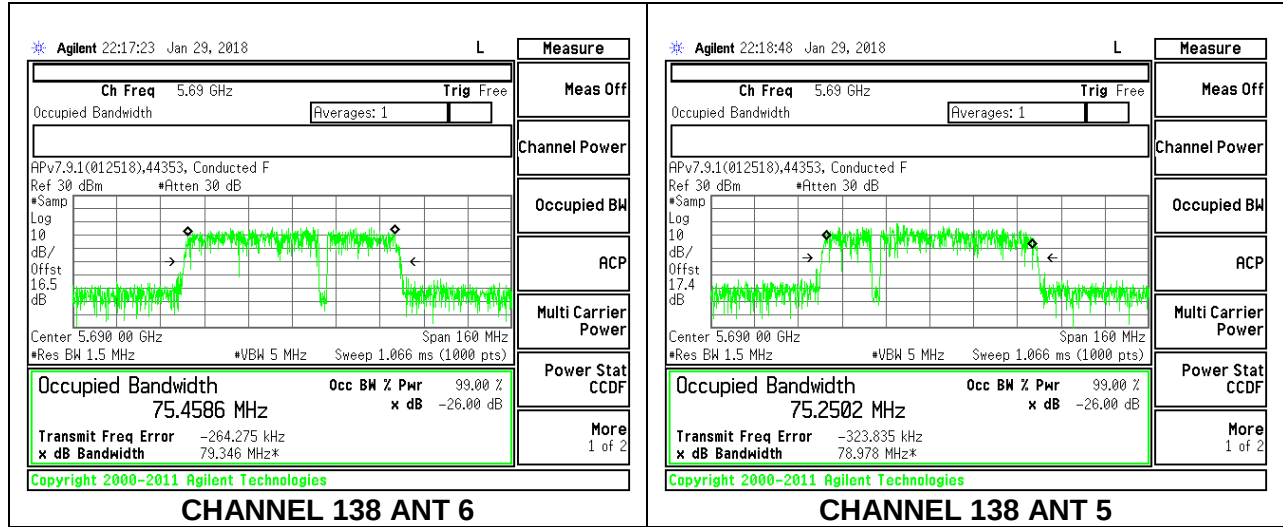
### LOW CHANNEL



### HIGH CHANNEL



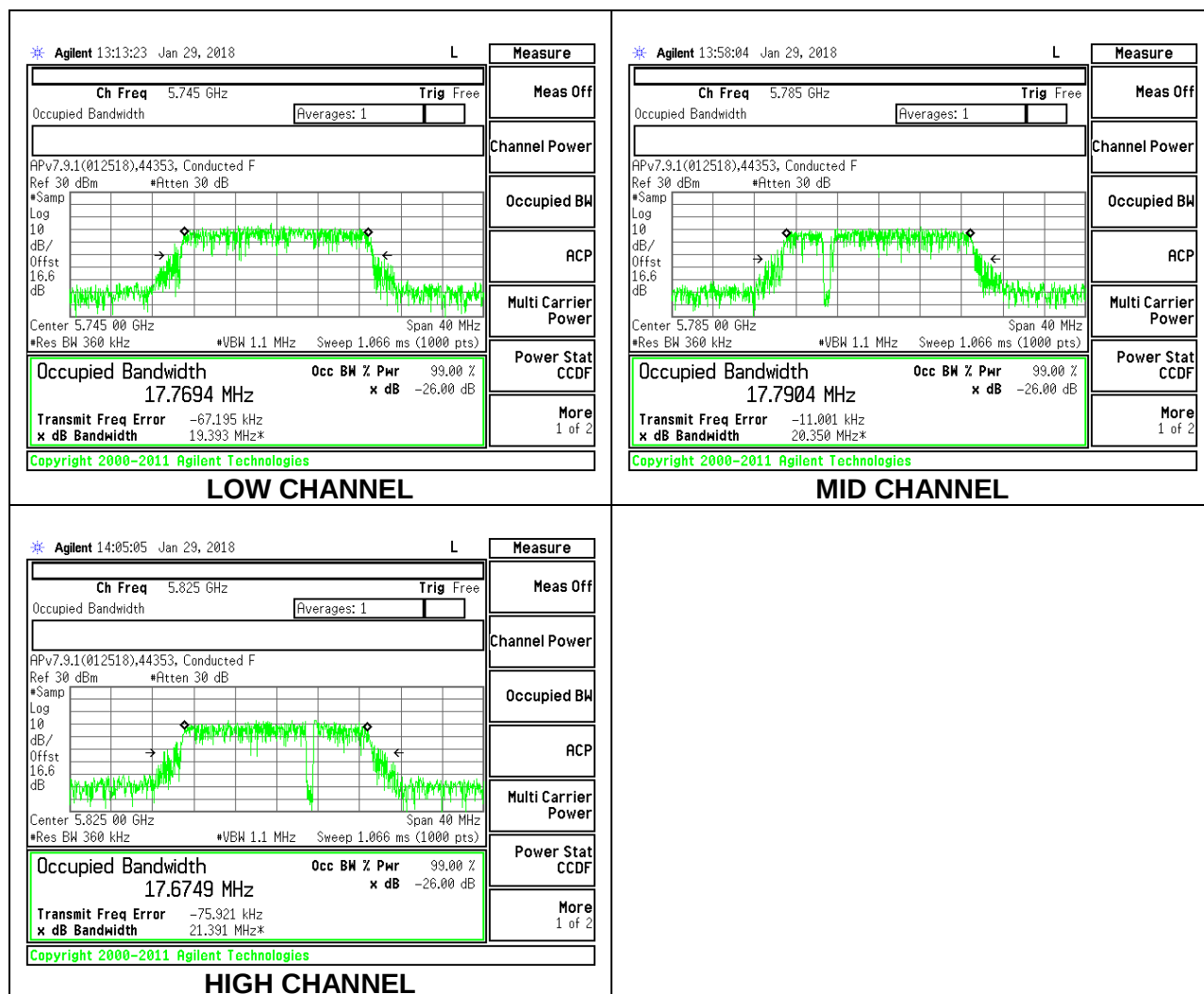
## CHANNEL 138



### 8.3.10. 802.11n HT20 MODE IN THE 5.8 GHz BAND

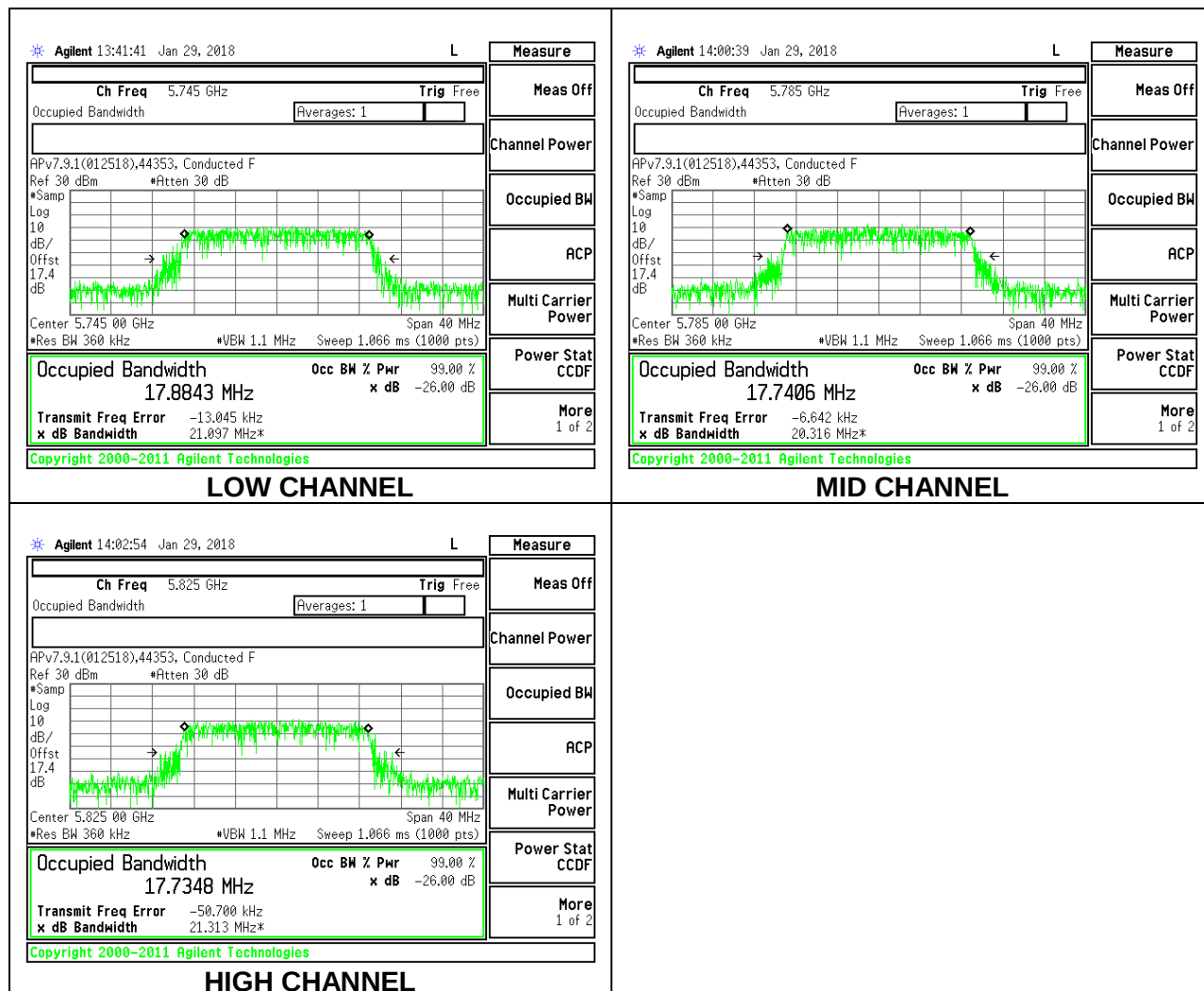
#### 1TX Antenna 6

| Channel | Frequency | 99% Bandwidth |
|---------|-----------|---------------|
|         | (MHz)     | (MHz)         |
| Low     | 5745      | 17.769        |
| Mid     | 5785      | 17.790        |
| High    | 5825      | 17.675        |



**1TX Antenna 5**

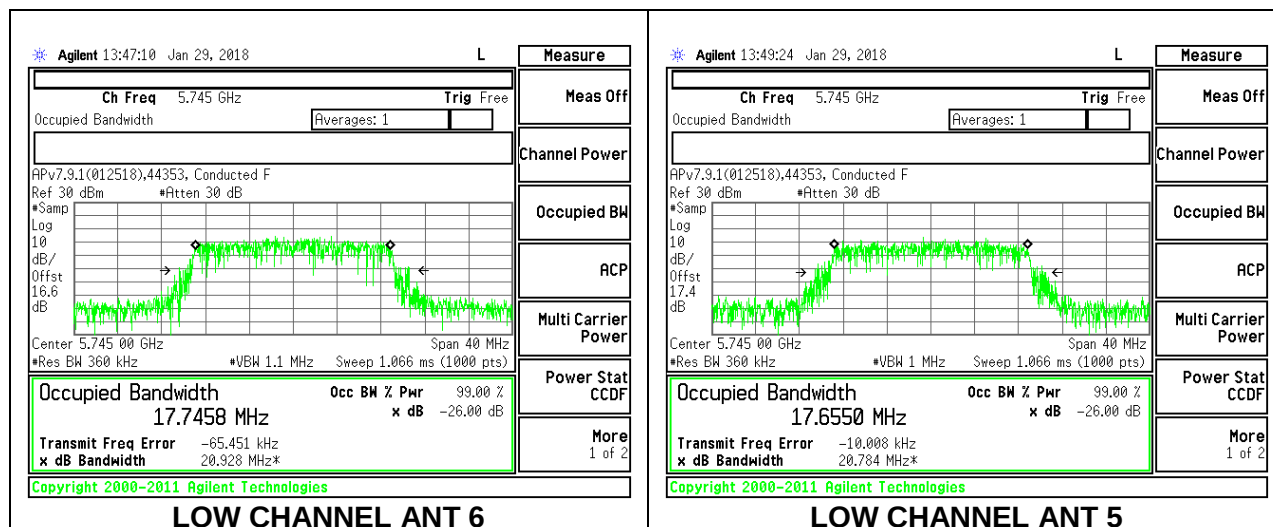
| Channel | Frequency | 99% Bandwidth |
|---------|-----------|---------------|
|         | (MHz)     | (MHz)         |
| Low     | 5745      | 17.884        |
| Mid     | 5785      | 17.741        |
| High    | 5825      | 17.735        |



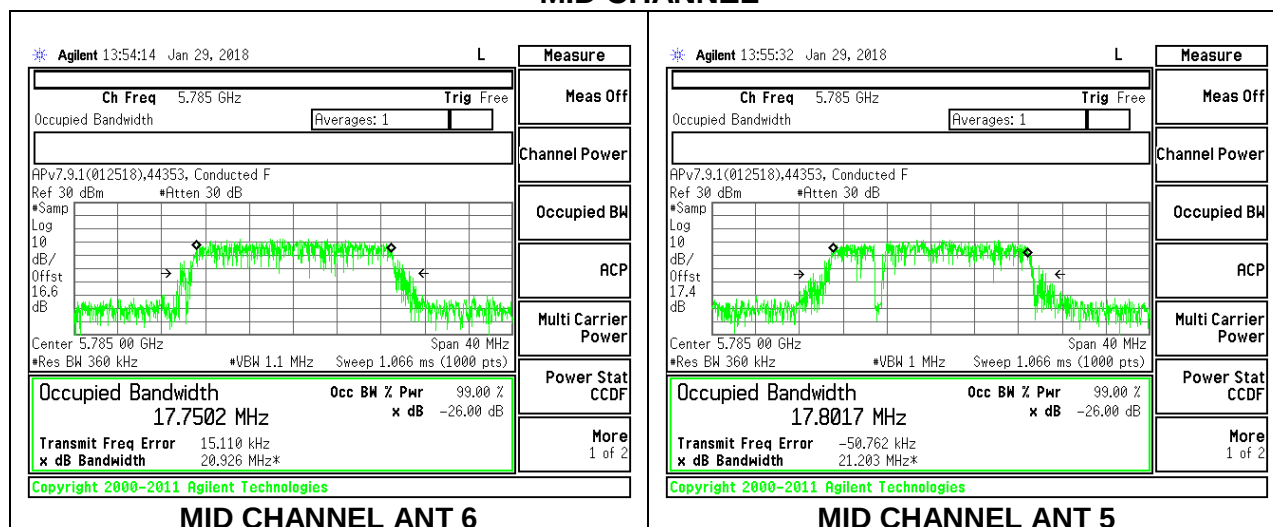
**2TX Antenna 6 + Antenna 5 CDD MODE**

| Channel | Frequency<br>(MHz) | 99% Bandwidth<br>Ant 6<br>(MHz) | 99% Bandwidth<br>Ant 5<br>(MHz) |
|---------|--------------------|---------------------------------|---------------------------------|
| Low     | 5745               | 17.746                          | 17.655                          |
| Mid     | 5785               | 17.750                          | 17.802                          |
| High    | 5825               | 17.832                          | 17.670                          |

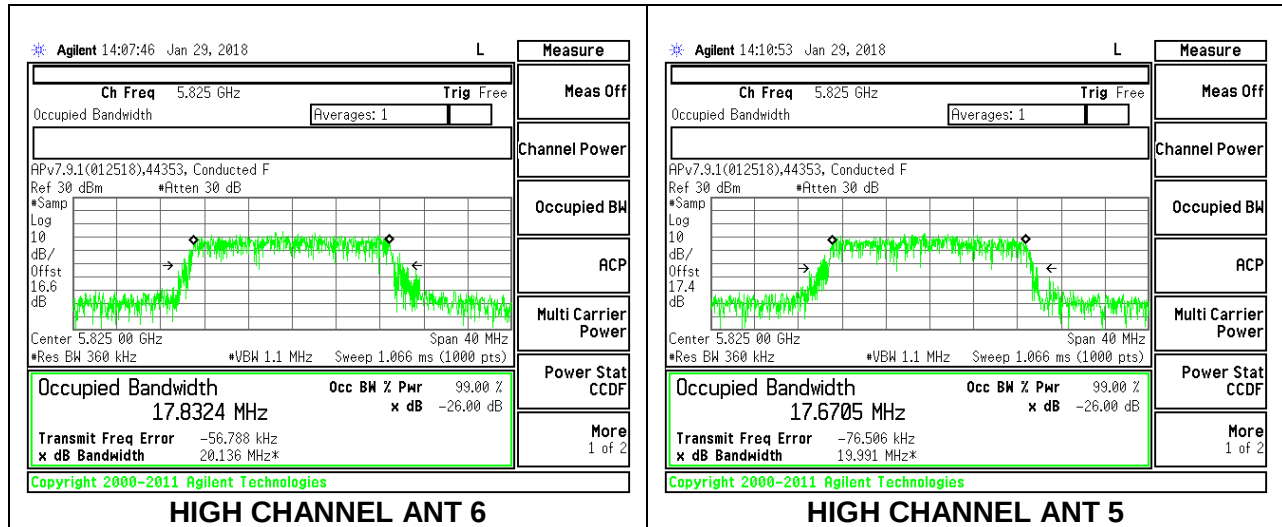
**LOW CHANNEL**



**MID CHANNEL**



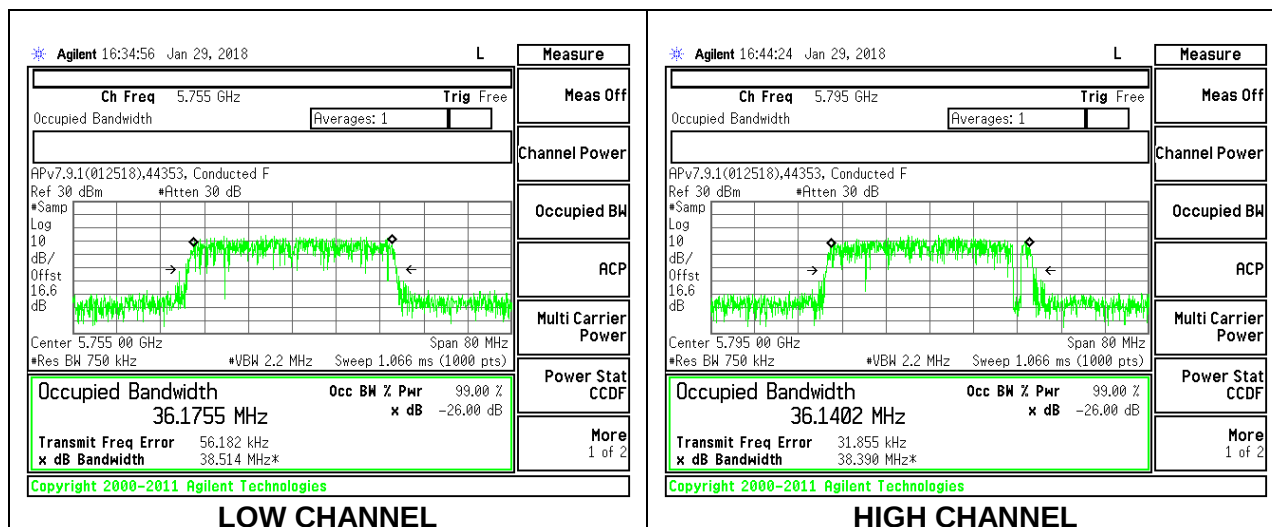
## HIGH CHANNEL



### 8.3.11. 802.11n HT40 MODE IN THE 5.8 GHz BAND

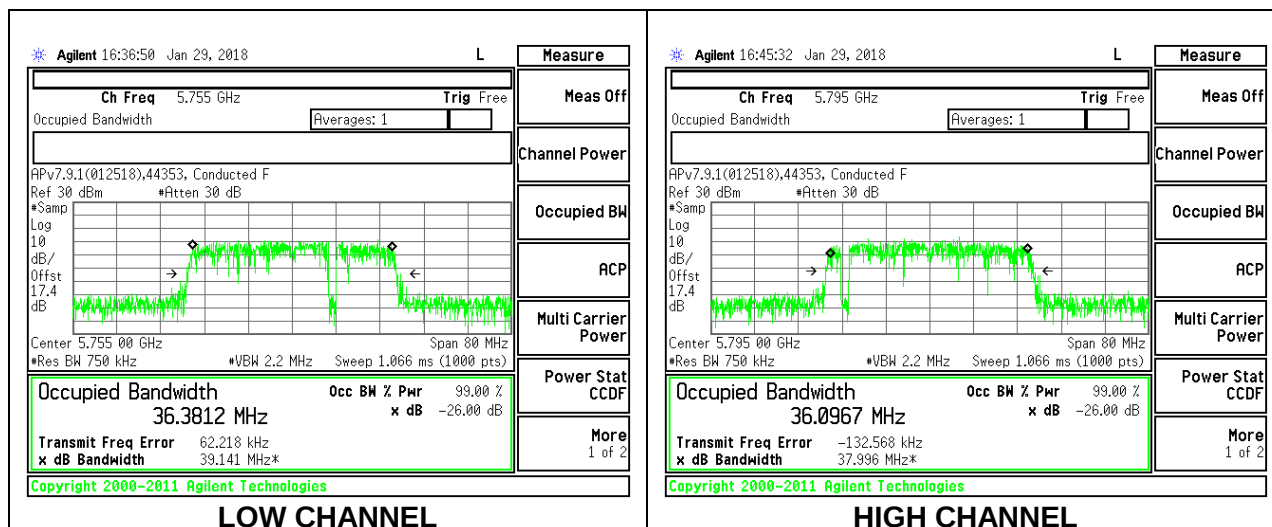
#### 1TX Antenna 6

| Channel | Frequency | 99% Bandwidth |
|---------|-----------|---------------|
|         | (MHz)     | (MHz)         |
| Low     | 5755      | 36.175        |
| High    | 5795      | 36.140        |



#### 1TX Antenna 5

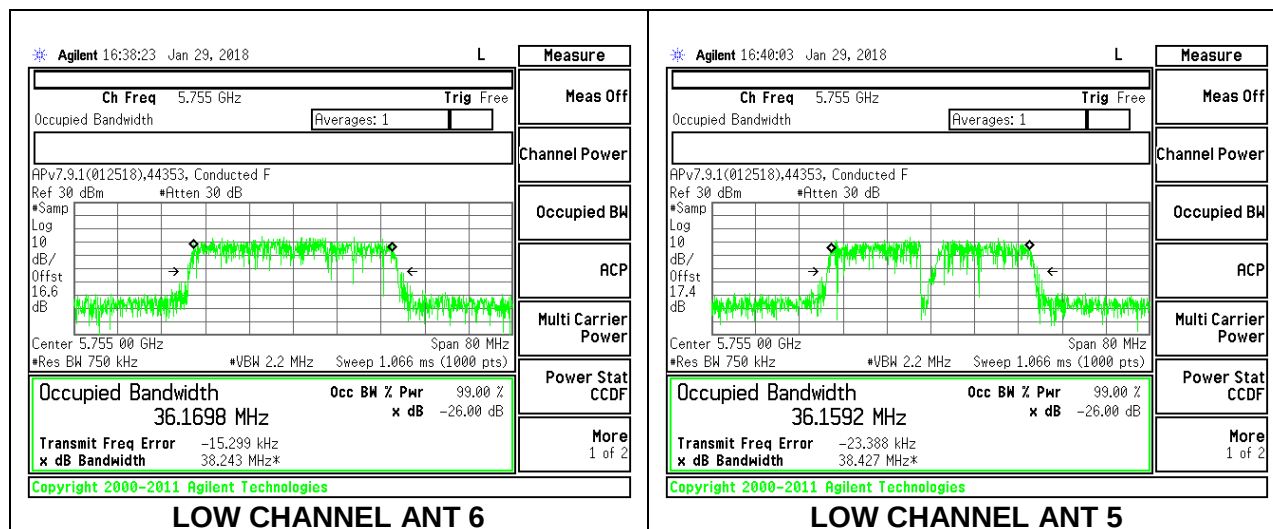
| Channel | Frequency | 99% Bandwidth |
|---------|-----------|---------------|
|         | (MHz)     | (MHz)         |
| Low     | 5755      | 36.381        |
| High    | 5795      | 36.097        |



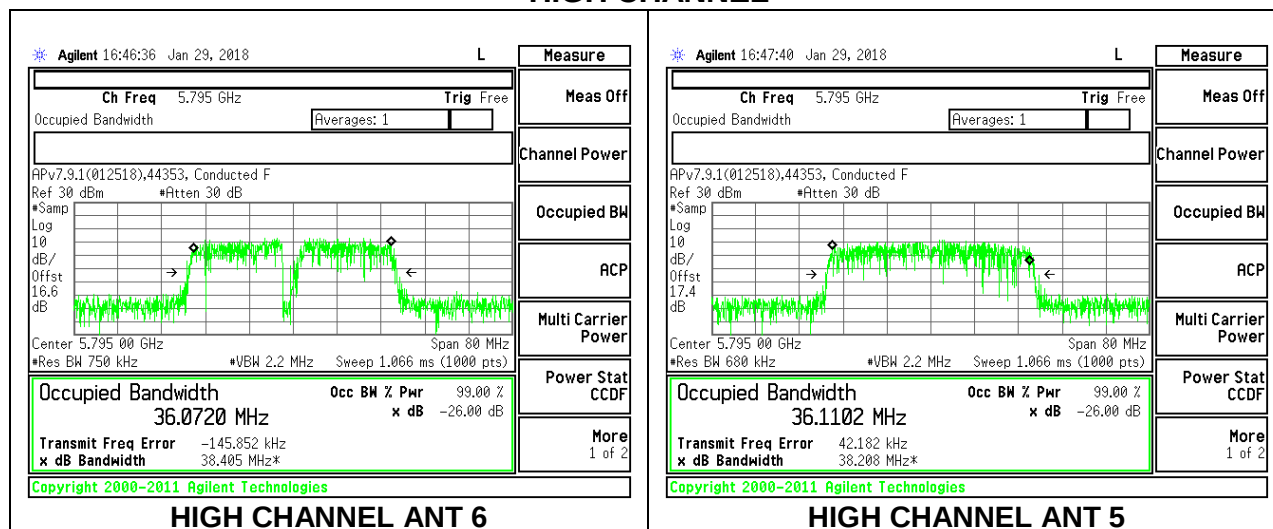
**2TX Antenna 6 + Antenna 5 CDD MODE**

| Channel | Frequency<br>(MHz) | 99% Bandwidth<br>Ant 6<br>(MHz) | 99% Bandwidth<br>Ant 5<br>(MHz) |
|---------|--------------------|---------------------------------|---------------------------------|
| Low     | 5755               | 36.170                          | 36.159                          |
| High    | 5795               | 36.072                          | 36.110                          |

**LOW CHANNEL**



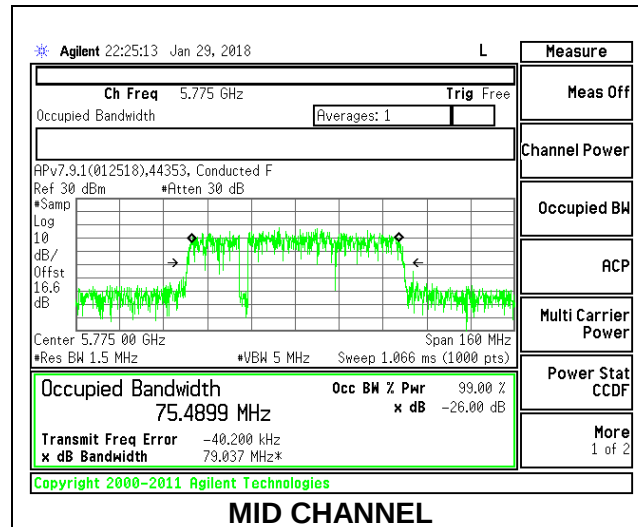
**HIGH CHANNEL**



### 8.3.12. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

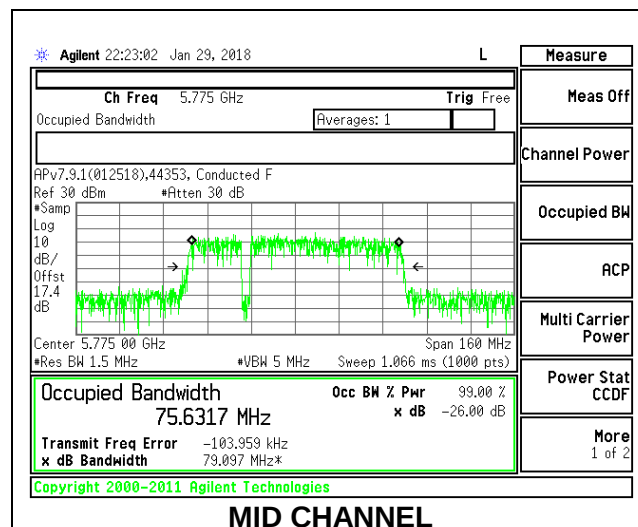
#### 1TX Antenna 6

| Channel | Frequency | 99% Bandwidth |
|---------|-----------|---------------|
|         | (MHz)     | (MHz)         |
| Mid     | 5775      | 75.490        |



#### 1TX Antenna 5

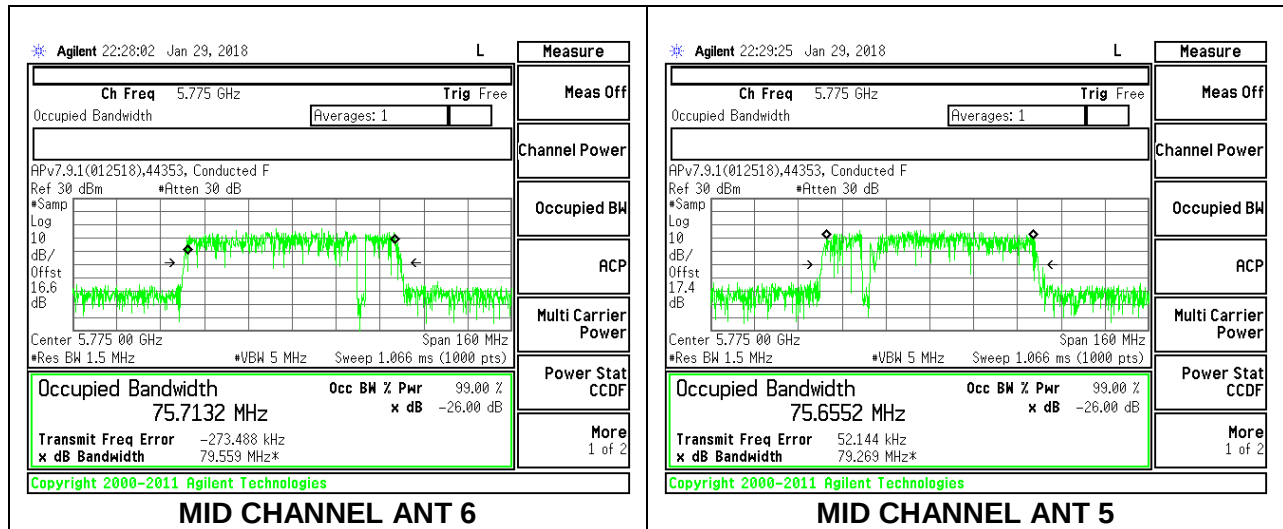
| Channel | Frequency | 99% Bandwidth |
|---------|-----------|---------------|
|         | (MHz)     | (MHz)         |
| Mid     | 5775      | 75.632        |



**2TX Antenna 6 + Antenna 5 CDD MODE**

| Channel | Frequency | 99% Bandwidth<br>Ant 6<br>(MHz) | 99% Bandwidth<br>Ant 5<br>(MHz) |
|---------|-----------|---------------------------------|---------------------------------|
| Mid     | 5775      | 75.713                          | 75.655                          |

**MID CHANNEL**



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## **8.4. 6 dB BANDWIDTH**

### **LIMITS**

FCC §15.407 (e)

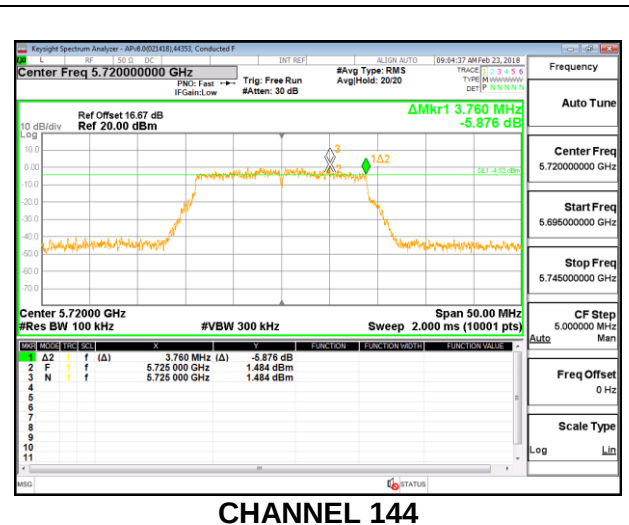
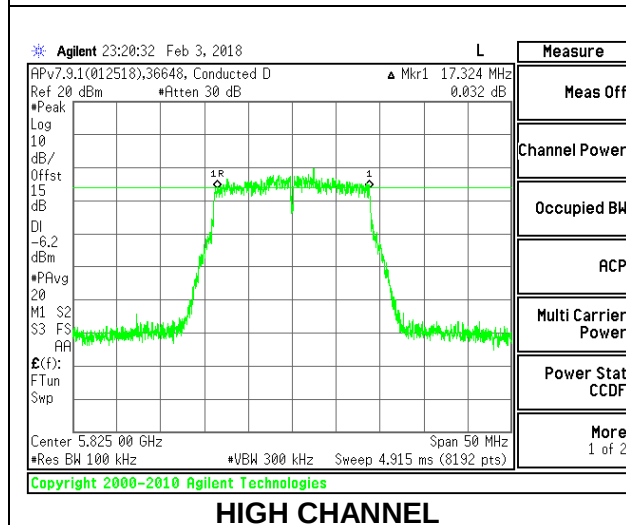
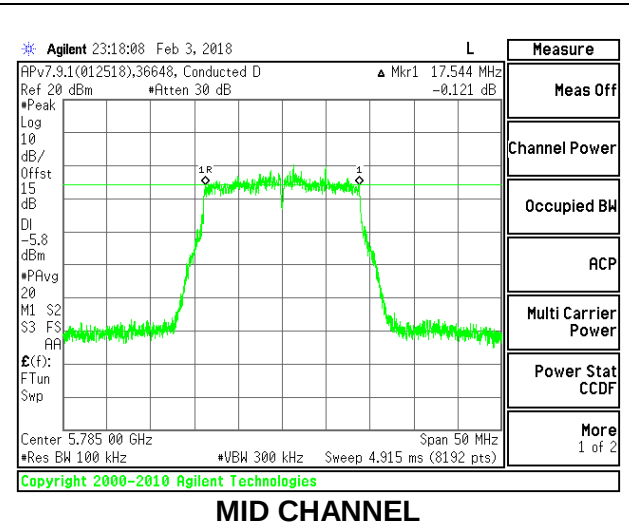
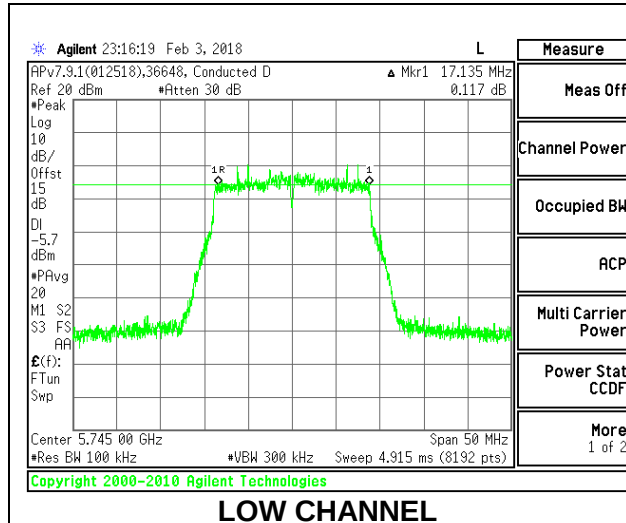
The minimum 6 dB bandwidth shall be at least 500 kHz.

### **RESULTS**

## 8.4.1. 802.11n HT20 MODE IN THE 5.8 GHz BAND

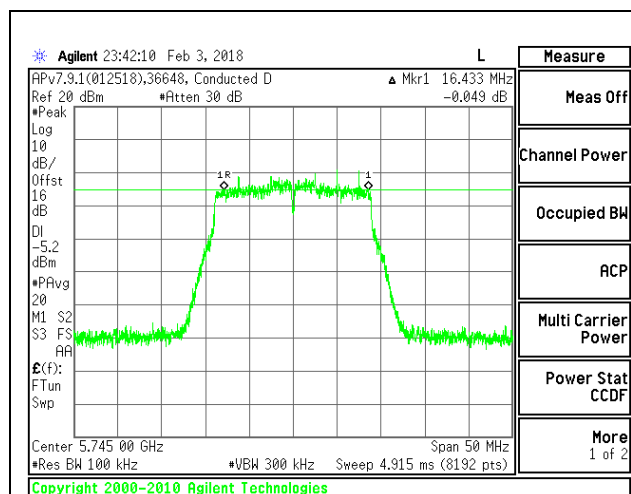
### 1TX Antenna 6

| Channel | Frequency | 6 dB Bandwidth | Minimum Limit |
|---------|-----------|----------------|---------------|
|         | (MHz)     | (MHz)          | (MHz)         |
| Low     | 5745      | 17.135         | 0.5           |
| Mid     | 5785      | 17.544         | 0.5           |
| High    | 5825      | 17.324         | 0.5           |
| 144     | 5720      | 3.760          | 0.5           |

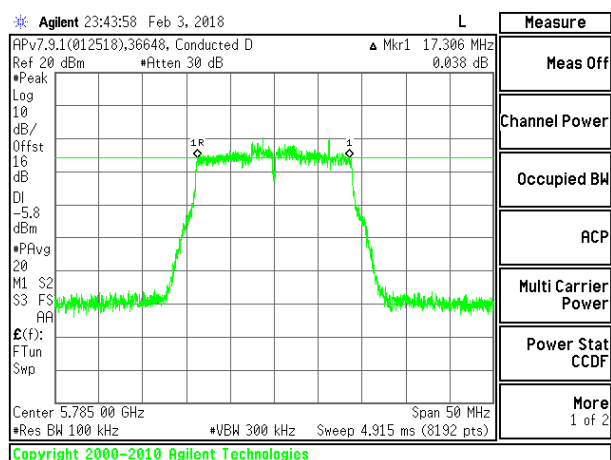


**1TX Antenna 5**

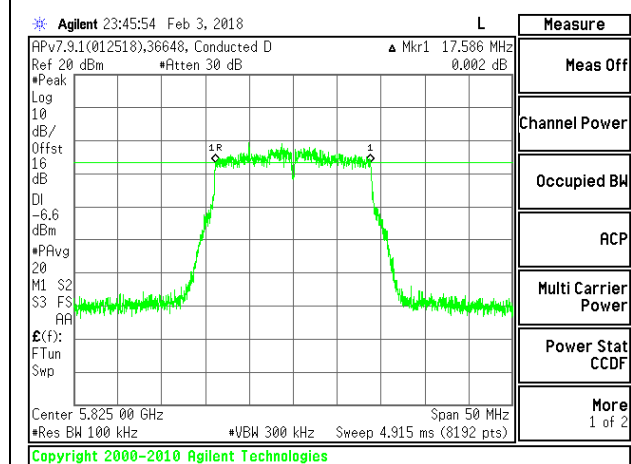
| Channel | Frequency | 6 dB Bandwidth | Minimum Limit |
|---------|-----------|----------------|---------------|
|         | (MHz)     | (MHz)          | (MHz)         |
| Low     | 5745      | 16.433         | 0.5           |
| Mid     | 5785      | 17.306         | 0.5           |
| High    | 5825      | 17.586         | 0.5           |
| 144     | 5720      | 3.855          | 0.5           |



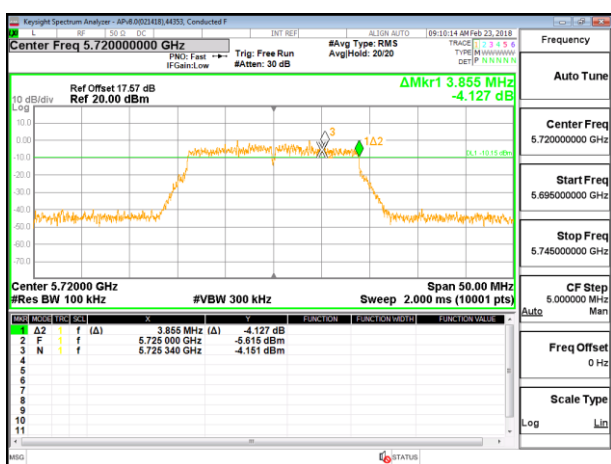
**LOW CHANNEL**



**MID CHANNEL**



**HIGH CHANNEL**

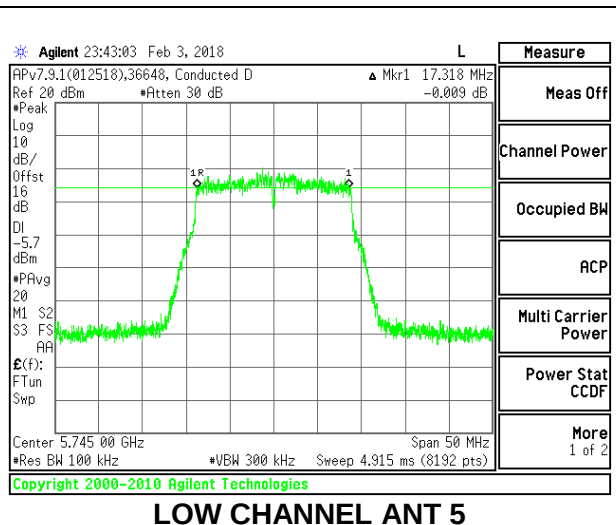
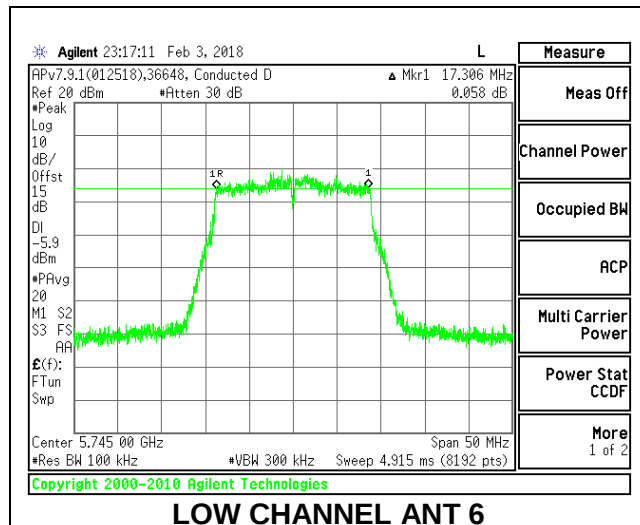


**CHANNEL 144**

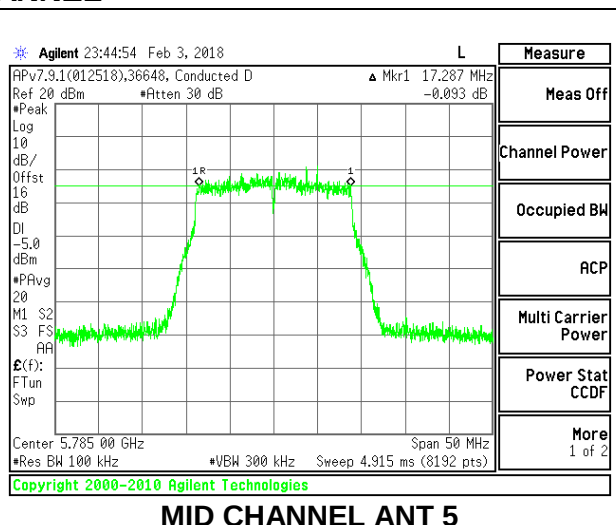
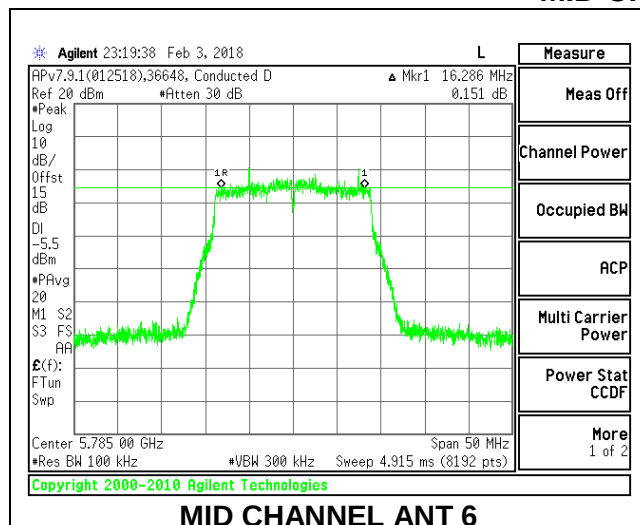
**2TX Antenna 6 + Antenna 5 CDD MODE**

| Channel | Frequency | 6 dB BW<br>Ant 6<br>(MHz) | 6 dB BW<br>Ant 5<br>(MHz) | Minimum<br>Limit<br>(MHz) |
|---------|-----------|---------------------------|---------------------------|---------------------------|
| Low     | 5745      | 17.306                    | 17.318                    | 0.5                       |
| Mid     | 5785      | 16.286                    | 17.287                    | 0.5                       |
| High    | 5825      | 17.544                    | 17.538                    | 0.5                       |
| 144     | 5720      | 3.870                     | 3.820                     | 0.5                       |

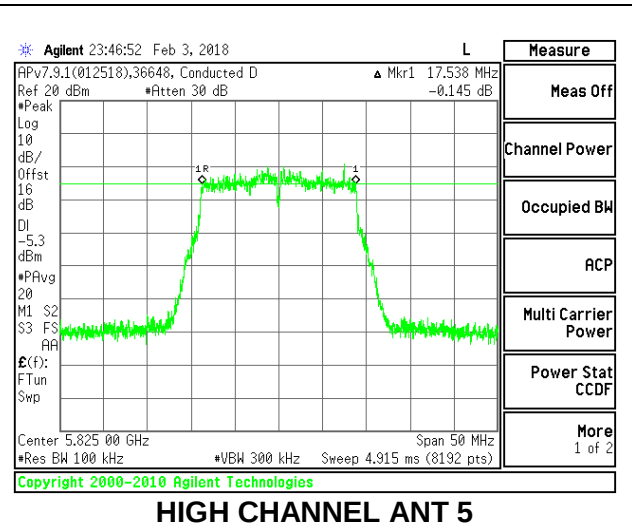
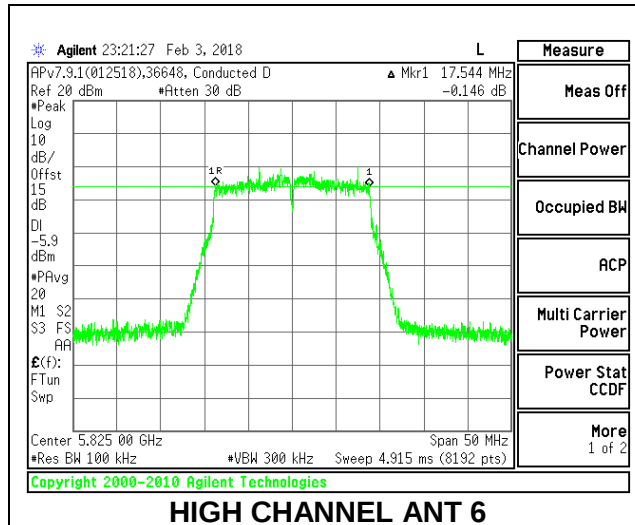
**LOW CHANNEL**



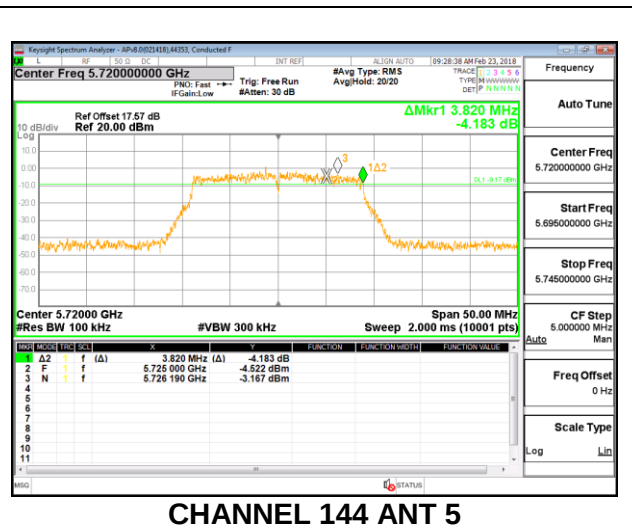
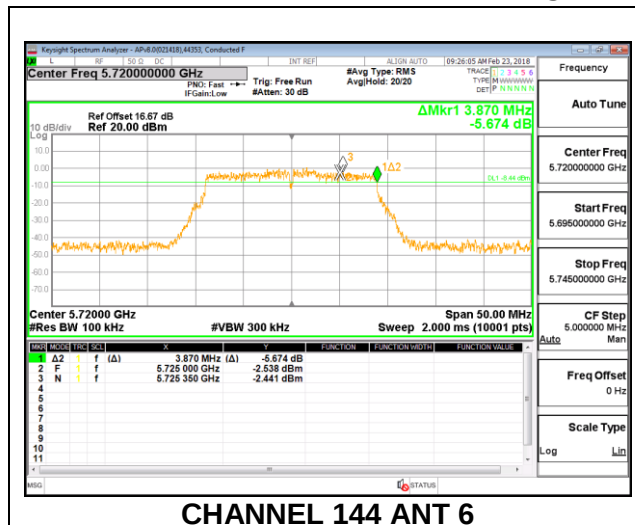
**MID CHANNEL**



## HIGH CHANNEL



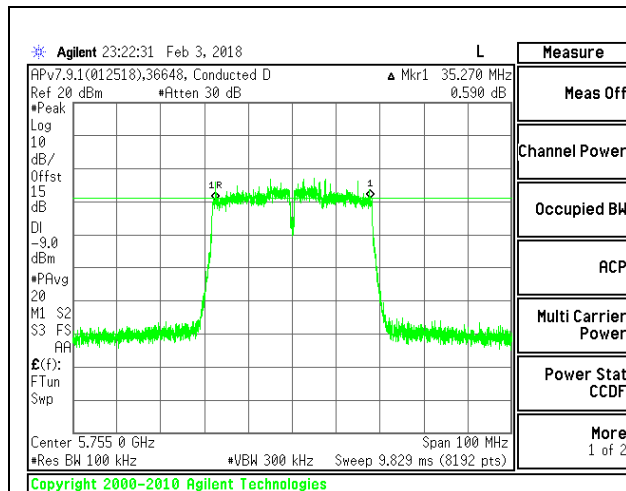
## CHANNEL 144



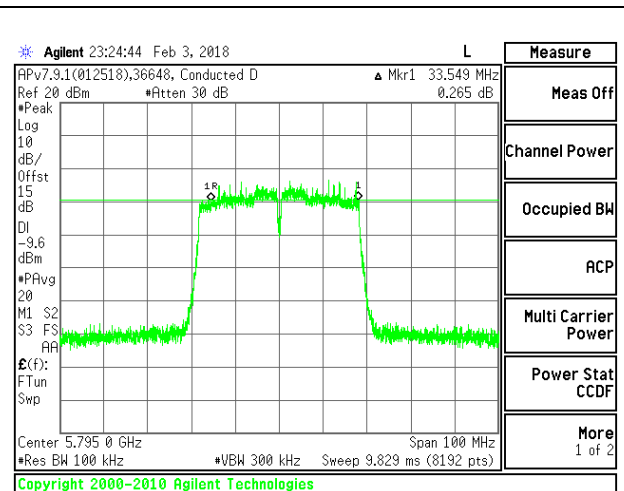
## 8.4.2. 802.11n HT40 MODE IN THE 5.8 GHz BAND

### 1TX Antenna 6

| Channel | Frequency | 6 dB Bandwidth | Minimum Limit |
|---------|-----------|----------------|---------------|
|         | (MHz)     | (MHz)          | (MHz)         |
| Low     | 5755      | 35.270         | 0.5           |
| High    | 5795      | 33.549         | 0.5           |
| 142     | 5710      | 3.140          | 0.5           |



LOW CHANNEL



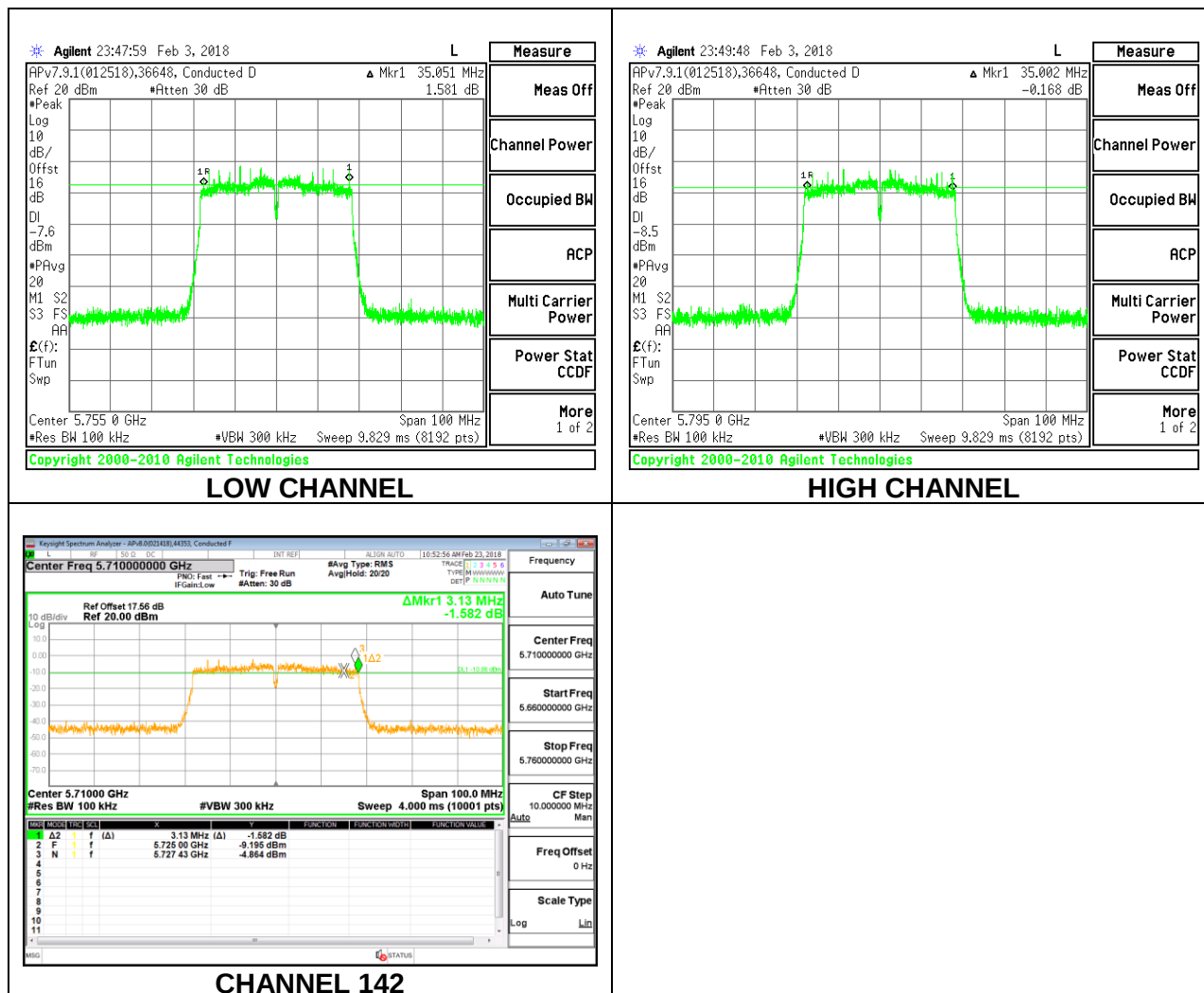
HIGH CHANNEL



CHANNEL 142

# 1TX Antenna 5

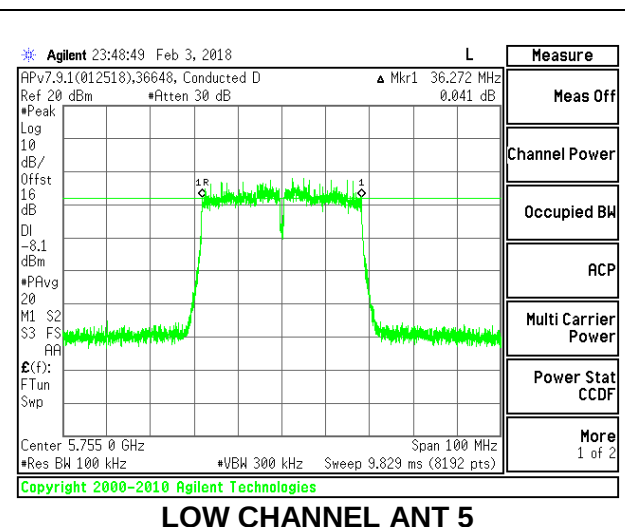
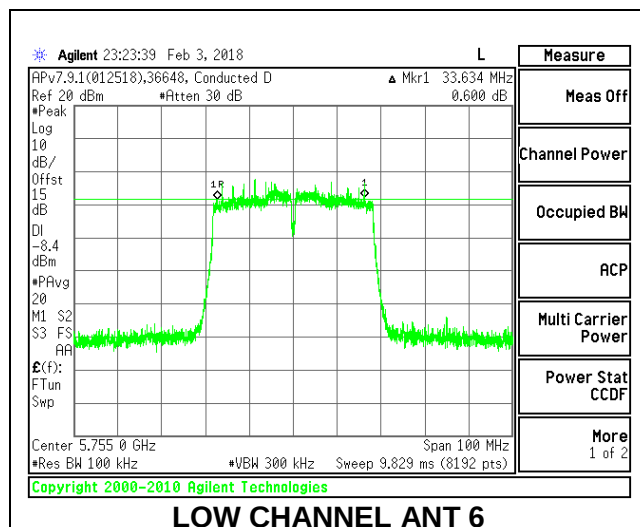
| Channel | Frequency | 6 dB Bandwidth | Minimum Limit |
|---------|-----------|----------------|---------------|
|         | (MHz)     | (MHz)          | (MHz)         |
| Low     | 5755      | 35.051         | 0.5           |
| High    | 5795      | 35.002         | 0.5           |
| 142     | 5710      | 3.130          | 0.5           |



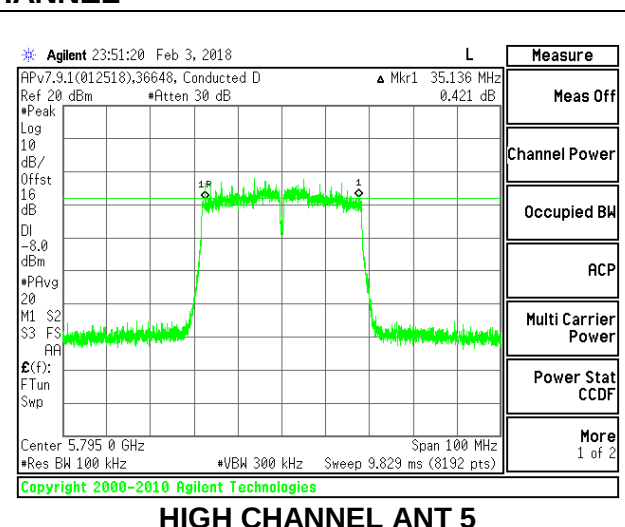
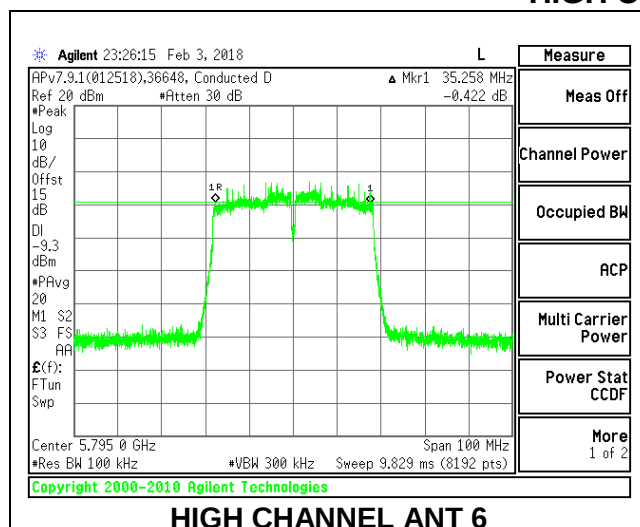
**2TX Antenna 6 + Antenna 5 CDD MODE**

| Channel | Frequency<br>(MHz) | 6 dB BW<br>Ant 6<br>(MHz) | 6 dB BW<br>Ant 5<br>(MHz) | Minimum<br>Limit<br>(MHz) |
|---------|--------------------|---------------------------|---------------------------|---------------------------|
| Low     | 5755               | 33.634                    | 36.272                    | 0.5                       |
| High    | 5795               | 35.258                    | 35.136                    | 0.5                       |
| 142     | 5710               | 3.190                     | 3.110                     | 0.5                       |

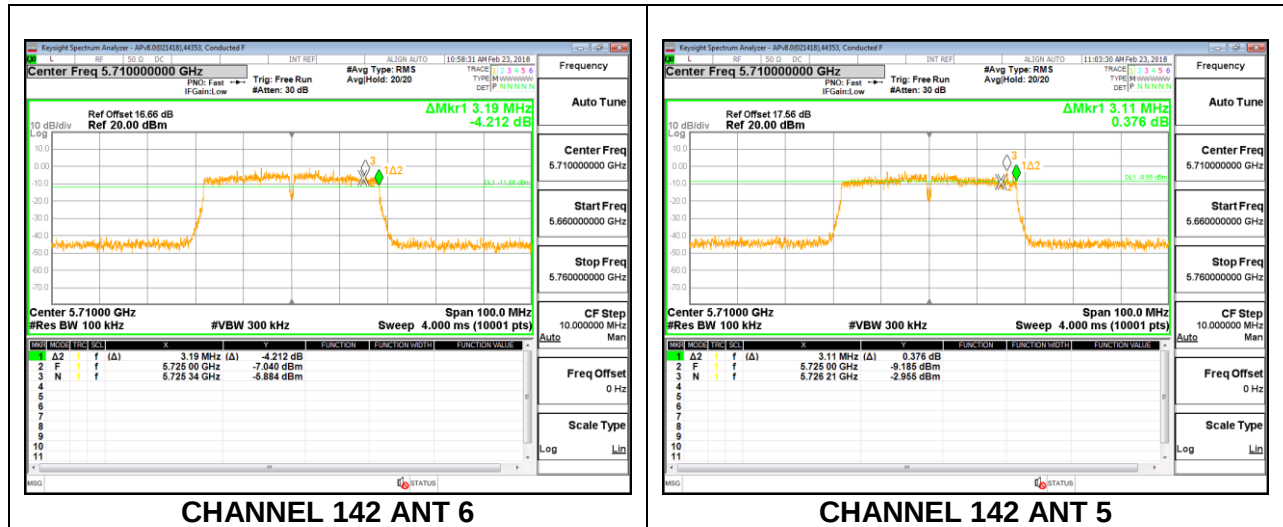
**LOW CHANNEL**



**HIGH CHANNEL**



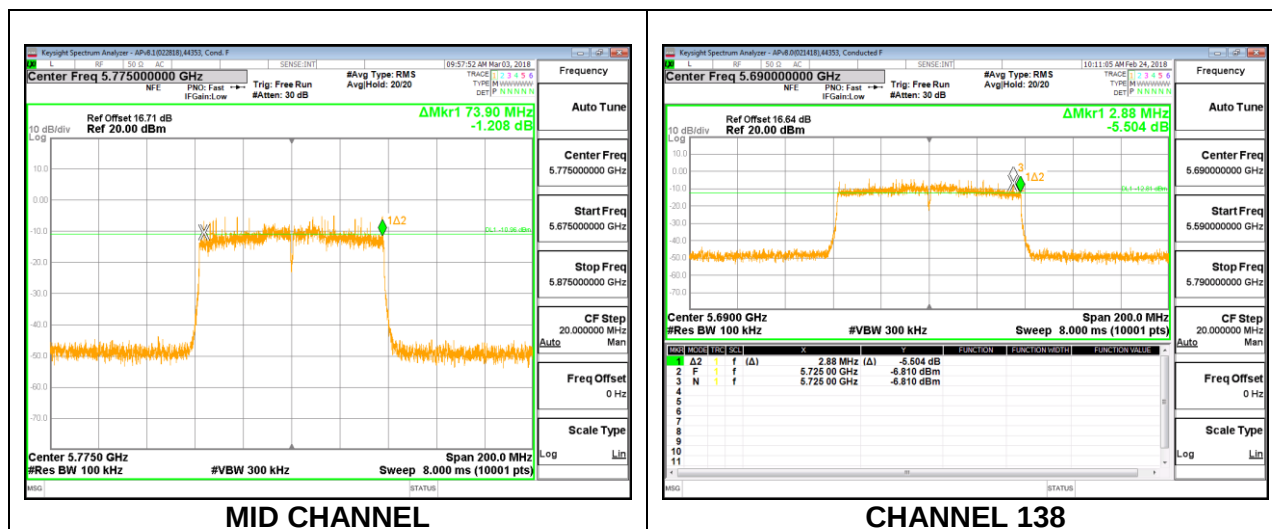
## CHANNEL 142



### 8.4.3. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

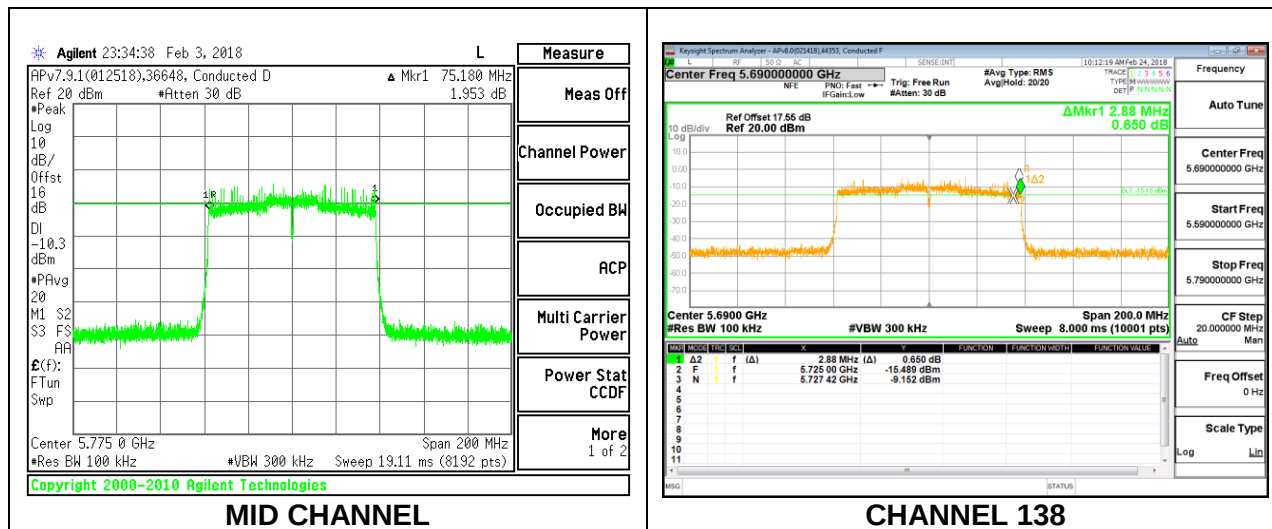
#### 1TX Antenna 6

| Channel | Frequency | 6 dB Bandwidth | Minimum Limit |
|---------|-----------|----------------|---------------|
|         | (MHz)     | (MHz)          | (MHz)         |
| Mid     | 5775      | 73.90          | 0.5           |
| 138     | 5690      | 2.88           | 0.5           |



#### 1TX Antenna 5

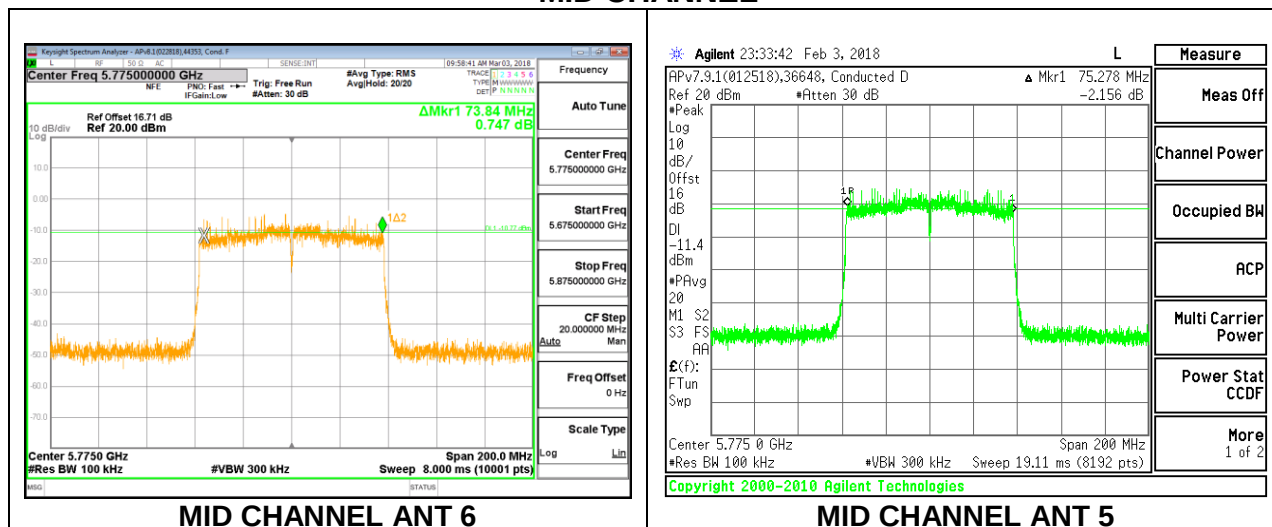
| Channel | Frequency | 6 dB Bandwidth | Minimum Limit |
|---------|-----------|----------------|---------------|
|         | (MHz)     | (MHz)          | (MHz)         |
| Mid     | 5775      | 75.18          | 0.5           |
| 138     | 5690      | 2.88           | 0.5           |



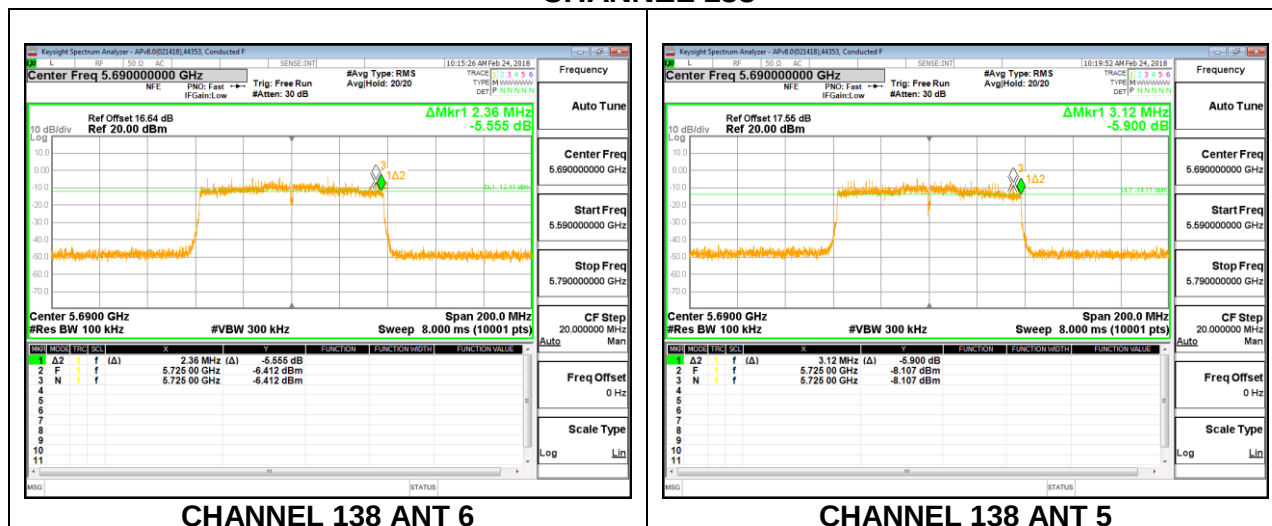
**2TX Antenna 6 + Antenna 5 CDD MODE**

| Channel | Frequency<br>(MHz) | 6 dB BW<br>Ant 6<br>(MHz) | 6 dB BW<br>Ant 5<br>(MHz) | Minimum<br>Limit<br>(MHz) |
|---------|--------------------|---------------------------|---------------------------|---------------------------|
| Mid     | 5775               | 73.84                     | 75.28                     | 0.5                       |
| 138     | 5690               | 2.36                      | 3.12                      | 0.5                       |

**MID CHANNEL**



**CHANNEL 138**



## **8.5. OUTPUT POWER AND PSD**

### **LIMITS**

#### **FCC §15.407**

##### **Band 5.15–5.25 GHz**

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

##### **Bands 5.25-5.35 GHz and 5.47-5.725 GHz**

The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

##### **Band 5.725-5.85 GHz**

The maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information.

### **TEST PROCEDURE**

The measurement method used for output power is KDB 789033 D02 v02r01, Section E.3.b (Method PM-G) and for straddles channels KDB 789033 D02 v02r01, Section E.2.b (Method SA-2) was used.

The measurement method used for power spectral density is KDB 789033 D02 v02r01, Section F

**DIRECTIONAL ANTENNA GAIN**

For 1 TX:

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

For 2 TX:

Tx chains are uncorrelated for power and correlated for PSD due to the device supporting CDD in all MIMO modes. The directional gains are as follows:

| Band<br>(GHz) | Chain 0<br>Antenna<br>Gain<br>(dBi) | Chain 1<br>Antenna<br>Gain<br>(dBi) | Uncorrelated Chains<br>Directional<br>Gain<br>(dBi) | Correlated Chains<br>Directional<br>Gain<br>(dBi) |
|---------------|-------------------------------------|-------------------------------------|-----------------------------------------------------|---------------------------------------------------|
| 5.2           | -5.70                               | -5.60                               | -5.65                                               | -2.64                                             |
| 5.3           | -4.5                                | -5.0                                | -4.74                                               | -1.74                                             |
| 5.6           | -1.8                                | -5.0                                | -3.11                                               | -0.24                                             |
| 5.8           | -2.2                                | -5.7                                | -3.61                                               | -0.76                                             |

**RESULTS**

## 8.5.1. 802.11n HT20 MODE IN THE 5.2 GHz BAND

### 1TX Antenna 6 (FCC) MOBILE

#### Antenna Gain and Limits

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/<br>1MHz) |
|---------|--------------------|------------------------------|-------------------------|--------------------------------|
| Low     | 5180               | -5.70                        | 24.00                   | 11.00                          |
| Mid     | 5200               | -5.70                        | 24.00                   | 11.00                          |
| High    | 5240               | -5.70                        | 24.00                   | 11.00                          |

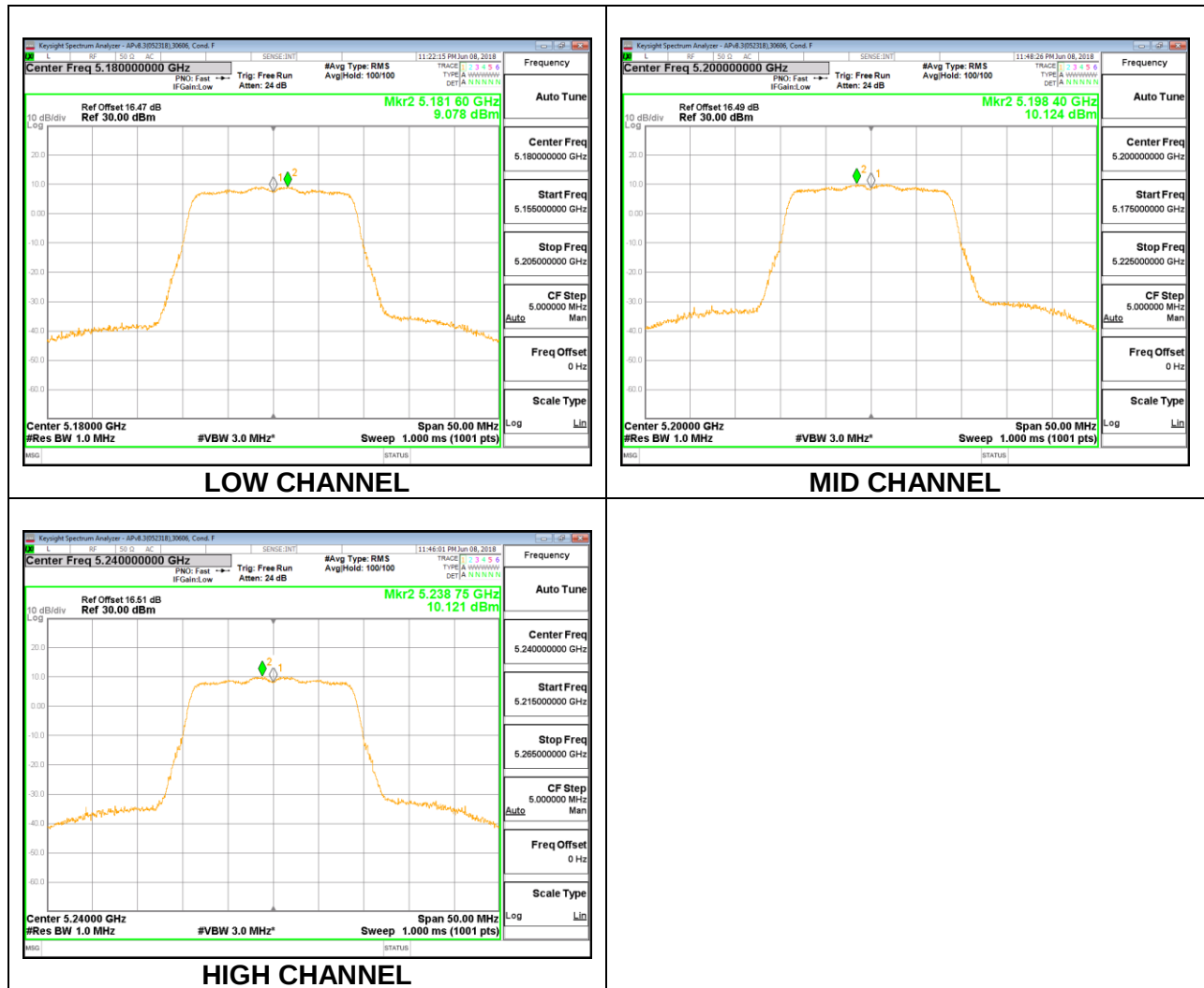
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

#### Output Power Results

| Channel | Frequency<br>(MHz) | Ant 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|---------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5180               | 19.85                           | 19.85                             | 24.00                   | -4.15                   |
| Mid     | 5200               | 20.87                           | 20.87                             | 24.00                   | -3.13                   |
| High    | 5240               | 20.80                           | 20.80                             | 24.00                   | -3.20                   |

#### PSD Results

| Channel | Frequency<br>(MHz) | Ant 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/<br>1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------|--------------------------------------|--------------------------------|-----------------------|
| Low     | 5180               | 9.08                               | 9.08                                 | 11.00                          | -1.92                 |
| Mid     | 5200               | 10.12                              | 10.12                                | 11.00                          | -0.88                 |
| High    | 5240               | 10.12                              | 10.12                                | 11.00                          | -0.88                 |



**1TX Antenna 5 (FCC) MOBILE**

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/<br>1MHz) |
|---------|--------------------|------------------------------|-------------------------|--------------------------------|
| Low     | 5180               | -5.60                        | 24.00                   | 11.00                          |
| Mid     | 5200               | -5.60                        | 24.00                   | 11.00                          |
| High    | 5240               | -5.60                        | 24.00                   | 11.00                          |

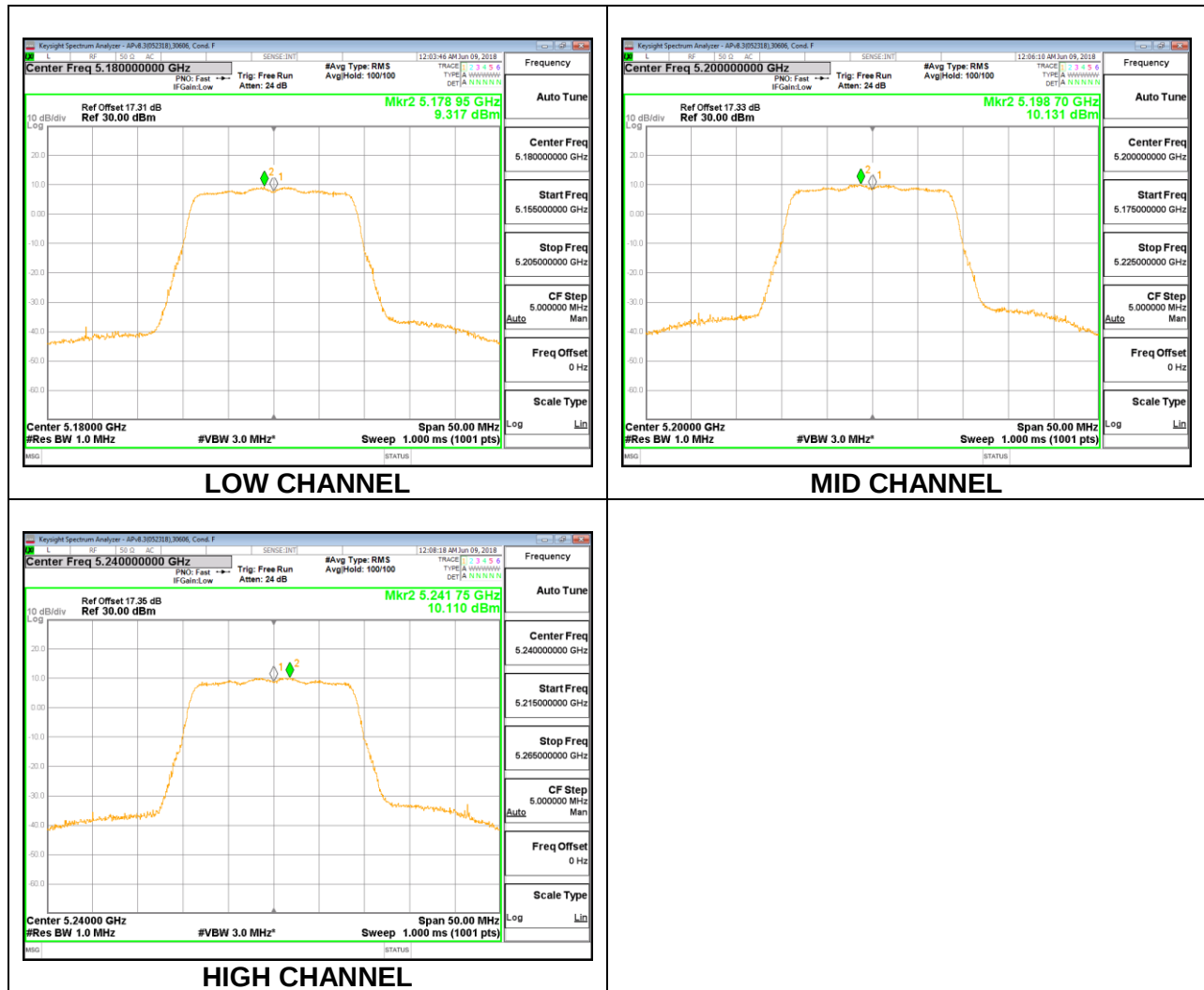
|                           |      |                                               |
|---------------------------|------|-----------------------------------------------|
| <b>Duty Cycle CF (dB)</b> | 0.00 | <b>Included in Calculations of Corr'd PSD</b> |
|---------------------------|------|-----------------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Ant 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|---------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5180               | 19.79                           | 19.79                             | 24.00                   | -4.21                   |
| Mid     | 5200               | 20.80                           | 20.80                             | 24.00                   | -3.20                   |
| High    | 5240               | 20.87                           | 20.87                             | 24.00                   | -3.13                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Ant 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/<br>1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------|--------------------------------------|--------------------------------|-----------------------|
| Low     | 5180               | 9.32                               | 9.32                                 | 11.00                          | -1.68                 |
| Mid     | 5200               | 10.13                              | 10.13                                | 11.00                          | -0.87                 |
| High    | 5240               | 10.11                              | 10.11                                | 11.00                          | -0.89                 |



**2TX Antenna 6 + Antenna 5 CDD MODE (FCC) MOBILE**

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/ 1MHz) |
|---------|--------------------|-------------------------------------------|-----------------------------------------|-------------------------|-----------------------------|
| Low     | 5180               | -5.65                                     | -2.64                                   | 24.00                   | 11.00                       |
| Mid     | 5200               | -5.65                                     | -2.64                                   | 24.00                   | 11.00                       |
| High    | 5240               | -5.65                                     | -2.64                                   | 24.00                   | 11.00                       |

|                           |      |                                               |
|---------------------------|------|-----------------------------------------------|
| <b>Duty Cycle CF (dB)</b> | 0.00 | <b>Included in Calculations of Corr'd PSD</b> |
|---------------------------|------|-----------------------------------------------|

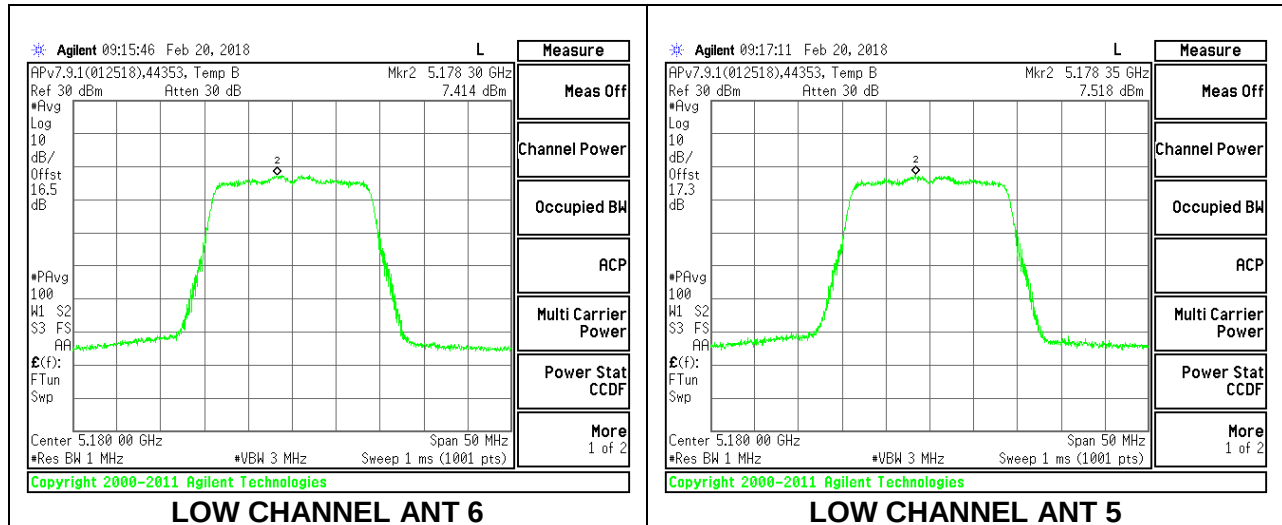
**Output Power Results**

| Channel | Frequency<br>(MHz) | Ant 6<br>Meas<br>Power<br>(dBm) | Ant 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|---------------------------------|---------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5180               | 17.78                           | 17.94                           | 20.87                             | 24.00                   | -3.13                   |
| Mid     | 5200               | 17.75                           | 17.80                           | 20.79                             | 24.00                   | -3.21                   |
| High    | 5240               | 17.88                           | 17.84                           | 20.87                             | 24.00                   | -3.13                   |

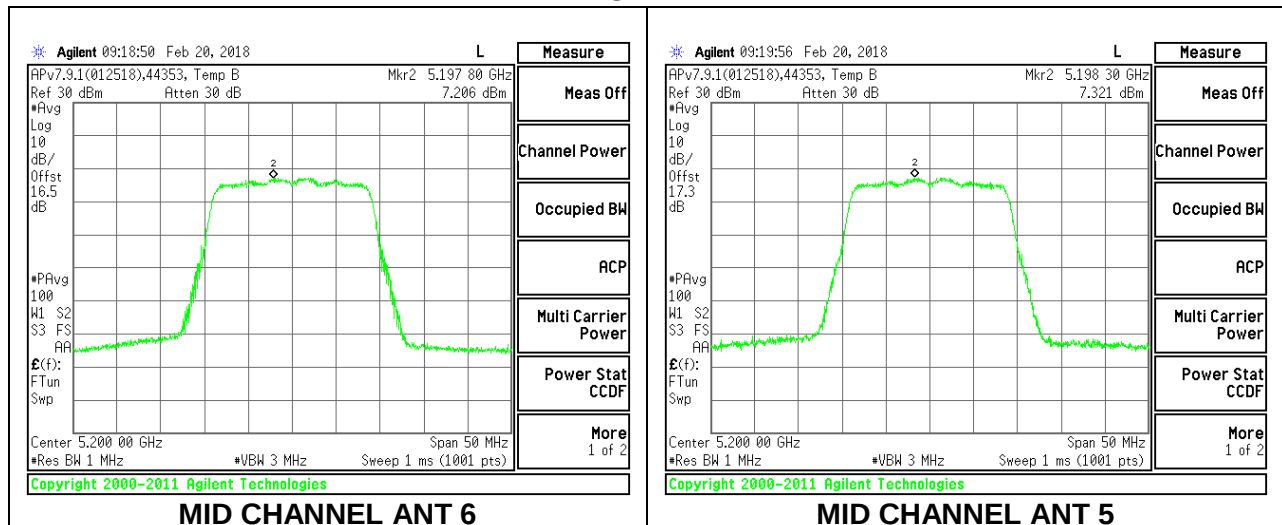
**PSD Results**

| Channel | Frequency<br>(MHz) | Ant 6<br>Meas<br>PSD<br>(dBm/1MHz) | Ant 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/ 1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------|------------------------------------|--------------------------------------|-----------------------------|-----------------------|
| Low     | 5180               | 7.41                               | 7.52                               | 10.48                                | 11.00                       | -0.52                 |
| Mid     | 5200               | 7.21                               | 7.32                               | 10.27                                | 11.00                       | -0.73                 |
| High    | 5240               | 7.16                               | 7.13                               | 10.15                                | 11.00                       | -0.85                 |

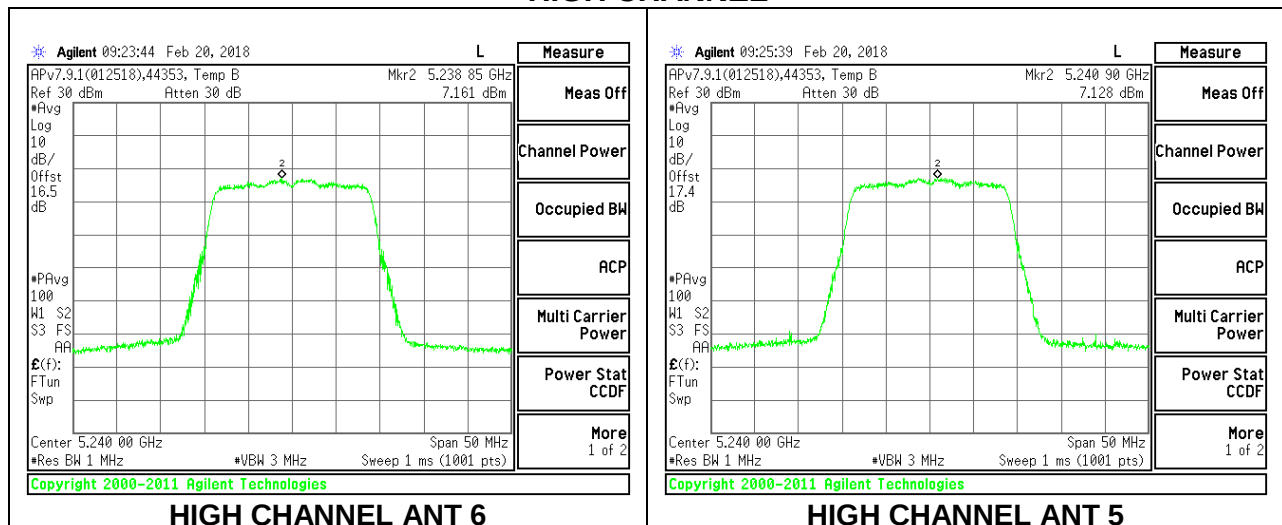
## LOW CHANNEL



## MID CHANNEL



## HIGH CHANNEL



## 8.5.2. 802.11n HT40 MODE IN THE 5.2 GHz BAND

### 1TX Antenna 6 (FCC) MOBILE

#### Antenna Gain and Limits

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/<br>1MHz) |
|---------|--------------------|-------------------------------------------|-------------------------|--------------------------------|
| Low     | 5190               | -5.70                                     | 24.00                   | 11.00                          |
| High    | 5230               | -5.70                                     | 24.00                   | 11.00                          |

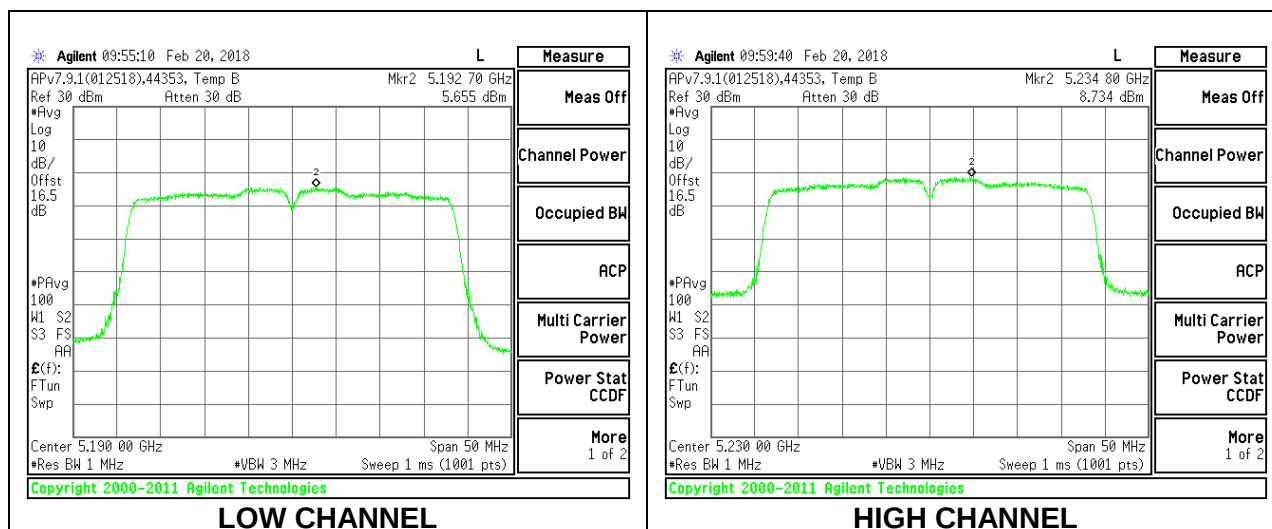
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.09 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

#### Output Power Results

| Channel | Frequency<br>(MHz) | Ant 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|---------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5190               | 18.44                           | 18.44                             | 24.00                   | -5.56                   |
| High    | 5230               | 21.91                           | 21.91                             | 24.00                   | -2.09                   |

#### PSD Results

| Channel | Frequency<br>(MHz) | Ant 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/<br>1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------|--------------------------------------|--------------------------------|-----------------------|
| Low     | 5190               | 5.66                               | 5.75                                 | 11.00                          | -5.26                 |
| High    | 5230               | 8.73                               | 8.82                                 | 11.00                          | -2.18                 |



**1TX Antenna 5 (FCC) MOBILE**

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/<br>1MHz) |
|---------|--------------------|-------------------------------------------|-------------------------|--------------------------------|
| Low     | 5190               | -5.60                                     | 24.00                   | 11.00                          |
| High    | 5230               | -5.60                                     | 24.00                   | 11.00                          |

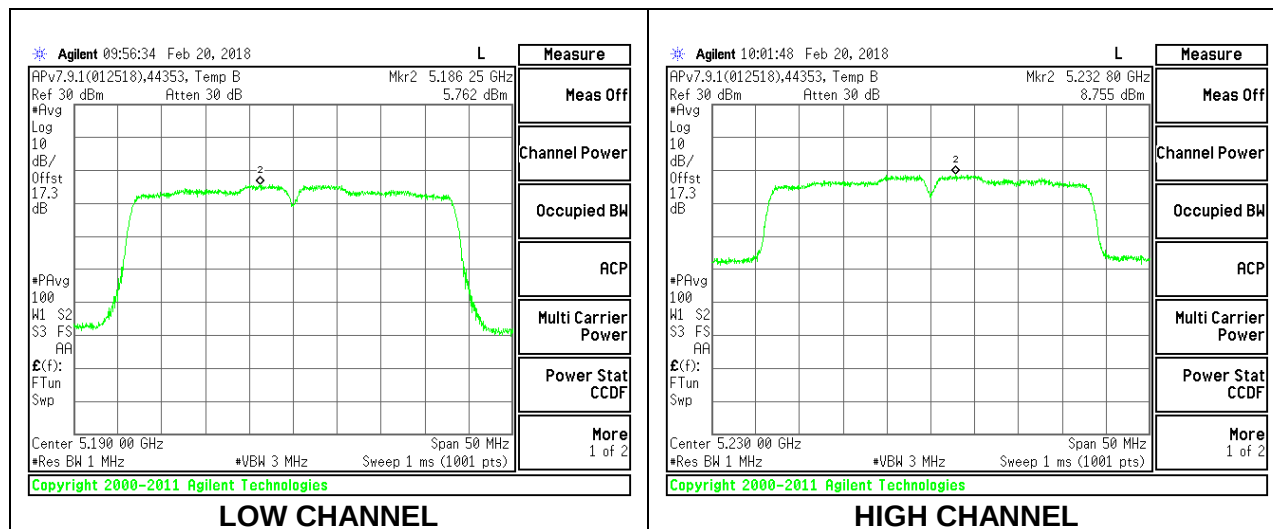
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.09 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Ant 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|---------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5190               | 18.49                           | 18.49                             | 24.00                   | -5.51                   |
| High    | 5230               | 21.95                           | 21.95                             | 24.00                   | -2.05                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Ant 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/<br>1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------|--------------------------------------|--------------------------------|-----------------------|
| Low     | 5190               | 5.76                               | 5.85                                 | 11.00                          | -5.15                 |
| High    | 5230               | 8.76                               | 8.85                                 | 11.00                          | -2.16                 |



**2TX Antenna 6 + Antenna 5 CDD MODE (FCC) MOBILE**

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/ 1MHz) |
|---------|--------------------|-------------------------------------------|-----------------------------------------|-------------------------|-----------------------------|
| Low     | 5190               | -5.65                                     | -2.64                                   | 24.00                   | 11.00                       |
| High    | 5230               | -5.65                                     | -2.64                                   | 24.00                   | 11.00                       |

|                           |      |                                               |
|---------------------------|------|-----------------------------------------------|
| <b>Duty Cycle CF (dB)</b> | 0.09 | <b>Included in Calculations of Corr'd PSD</b> |
|---------------------------|------|-----------------------------------------------|

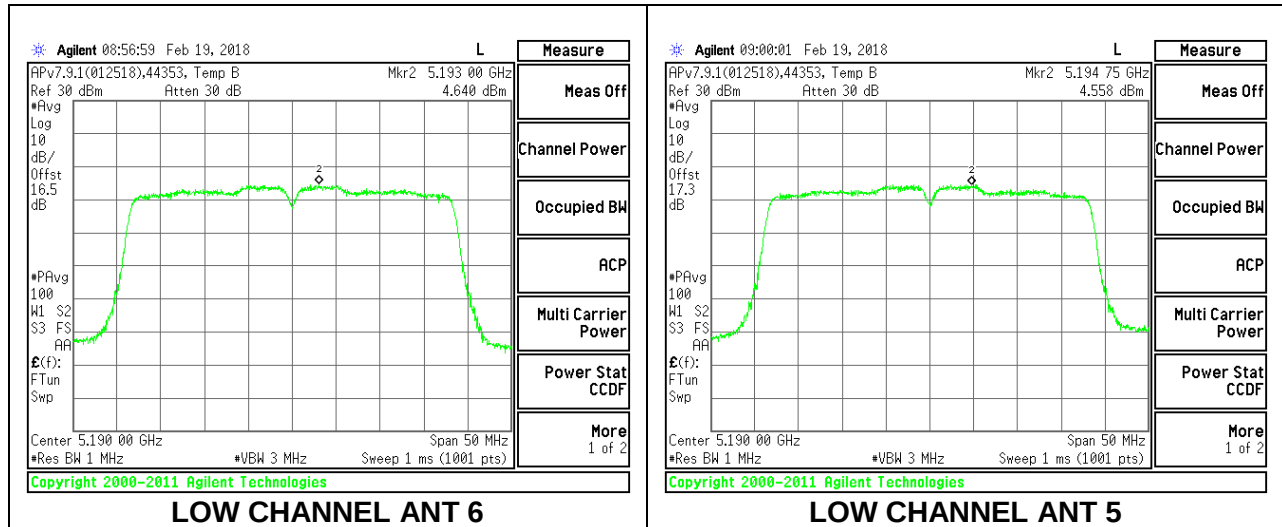
**Output Power Results**

| Channel | Frequency<br>(MHz) | Ant 6<br>Meas<br>Power<br>(dBm) | Ant 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|---------------------------------|---------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5190               | 17.89                           | 17.82                           | 20.87                             | 24.00                   | -3.13                   |
| High    | 5230               | 19.90                           | 19.81                           | 22.87                             | 24.00                   | -1.13                   |

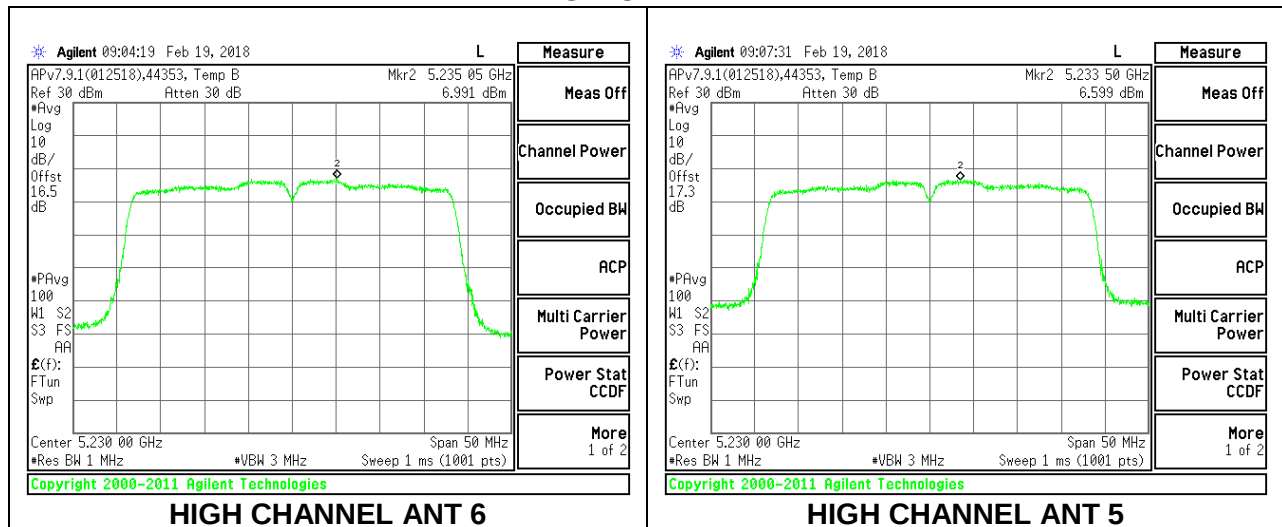
**PSD Results**

| Channel | Frequency<br>(MHz) | Ant 6<br>Meas<br>PSD<br>(dBm/<br>1MHz) | Ant 5<br>Meas<br>PSD<br>(dBm/<br>1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/<br>1MHz) | PSD<br>Limit<br>(dBm/ 1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|------------------------------------------|-----------------------------|-----------------------|
| Low     | 5190               | 4.64                                   | 4.56                                   | 7.70                                     | 11.00                       | -3.30                 |
| High    | 5230               | 6.99                                   | 6.60                                   | 9.90                                     | 11.00                       | -1.10                 |

## LOW CHANNEL



## HIGH CHANNEL



### 8.5.3. 802.11ac VHT80 MODE IN THE 5.2 GHz BAND

#### 1TX Antenna 6 (FCC) MOBILE

##### Antenna Gain and Limits

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/<br>1MHz) |
|---------|--------------------|------------------------------|-------------------------|--------------------------------|
| Mid     | 5210               | -5.70                        | 24.00                   | 11.00                          |

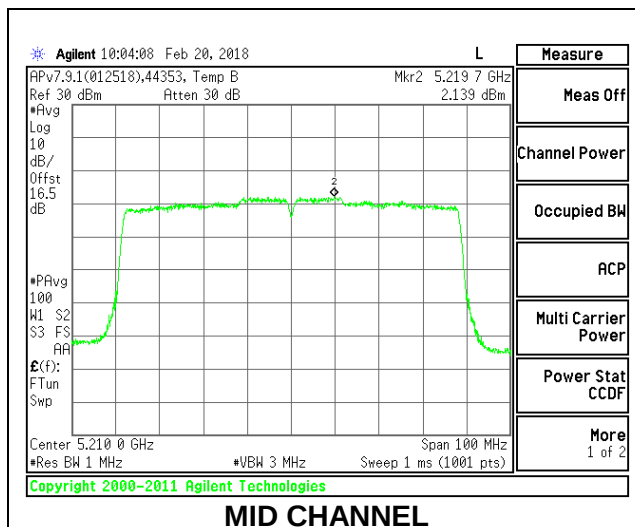
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.19 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

##### Output Power Results

| Channel | Frequency<br>(MHz) | Ant 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|---------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5210               | 17.38                           | 17.38                             | 24.00                   | -6.62                   |

##### PSD Results

| Channel | Frequency<br>(MHz) | Ant 6<br>Meas<br>PSD<br>(dBm/<br>1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/<br>1MHz) | PSD<br>Limit<br>(dBm/<br>1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|------------------------------------------|--------------------------------|-----------------------|
| Mid     | 5210               | 2.14                                   | 2.33                                     | 11.00                          | -8.67                 |



**1TX Antenna 5 (FCC) MOBILE**

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/<br>1MHz) |
|---------|--------------------|------------------------------|-------------------------|--------------------------------|
| Mid     | 5210               | -5.60                        | 24.00                   | 11.00                          |

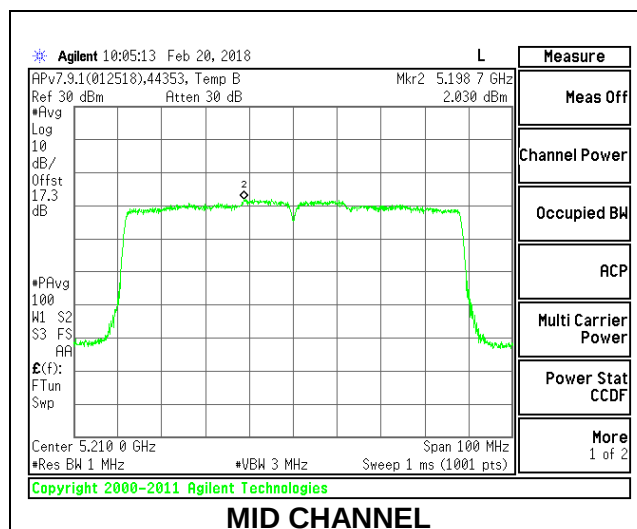
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.19 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Ant 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|---------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5210               | 17.44                           | 17.44                             | 24.00                   | -6.56                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Ant 5<br>Meas<br>PSD<br>(dBm/<br>1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/<br>1MHz) | PSD<br>Limit<br>(dBm/<br>1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|------------------------------------------|--------------------------------|-----------------------|
| Mid     | 5210               | 2.03                                   | 2.22                                     | 11.00                          | -8.78                 |



**2TX Antenna 6 + Antenna 5 CDD MODE (FCC) MOBILE**

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/ 1MHz) |
|---------|--------------------|-------------------------------------------|-----------------------------------------|-------------------------|-----------------------------|
| Mid     | 5210               | -5.65                                     | -2.64                                   | 24.00                   | 11.00                       |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.19 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

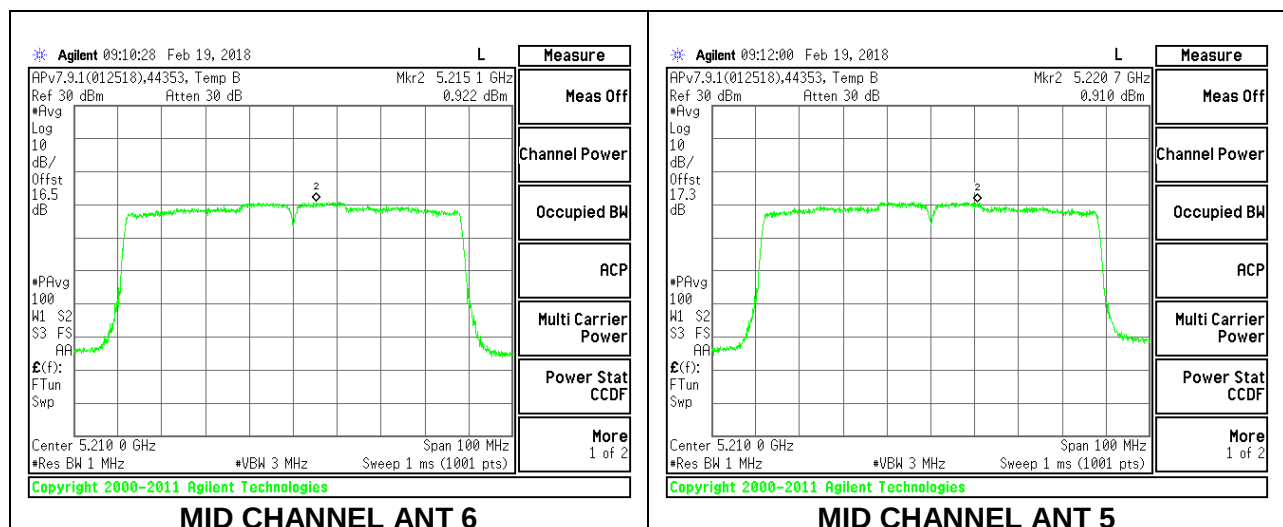
**Output Power Results**

| Channel | Frequency<br>(MHz) | Ant 6<br>Meas<br>Power<br>(dBm) | Ant 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|---------------------------------|---------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5210               | 17.43                           | 17.29                           | 20.37                             | 24.00                   | -3.63                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Ant 6<br>Meas<br>PSD<br>(dBm/<br>1MHz) | Ant 5<br>Meas<br>PSD<br>(dBm/<br>1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/<br>1MHz) | PSD<br>Limit<br>(dBm/ 1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|------------------------------------------|-----------------------------|-----------------------|
| Mid     | 5210               | 0.92                                   | 0.91                                   | 4.12                                     | 11.00                       | -6.88                 |

**MID CHANNEL**



### 8.5.4. 802.11n HT20 MODE IN THE 5.3 GHz BAND

#### 1TX Antenna 6 (FCC)

##### Bandwidth, Antenna Gain, and Limits

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5260               | 22.10                       | -4.50                        | 24.00                   | 11.00                      |
| Mid     | 5300               | 22.00                       | -4.50                        | 24.00                   | 11.00                      |
| High    | 5320               | 22.00                       | -4.50                        | 24.00                   | 11.00                      |

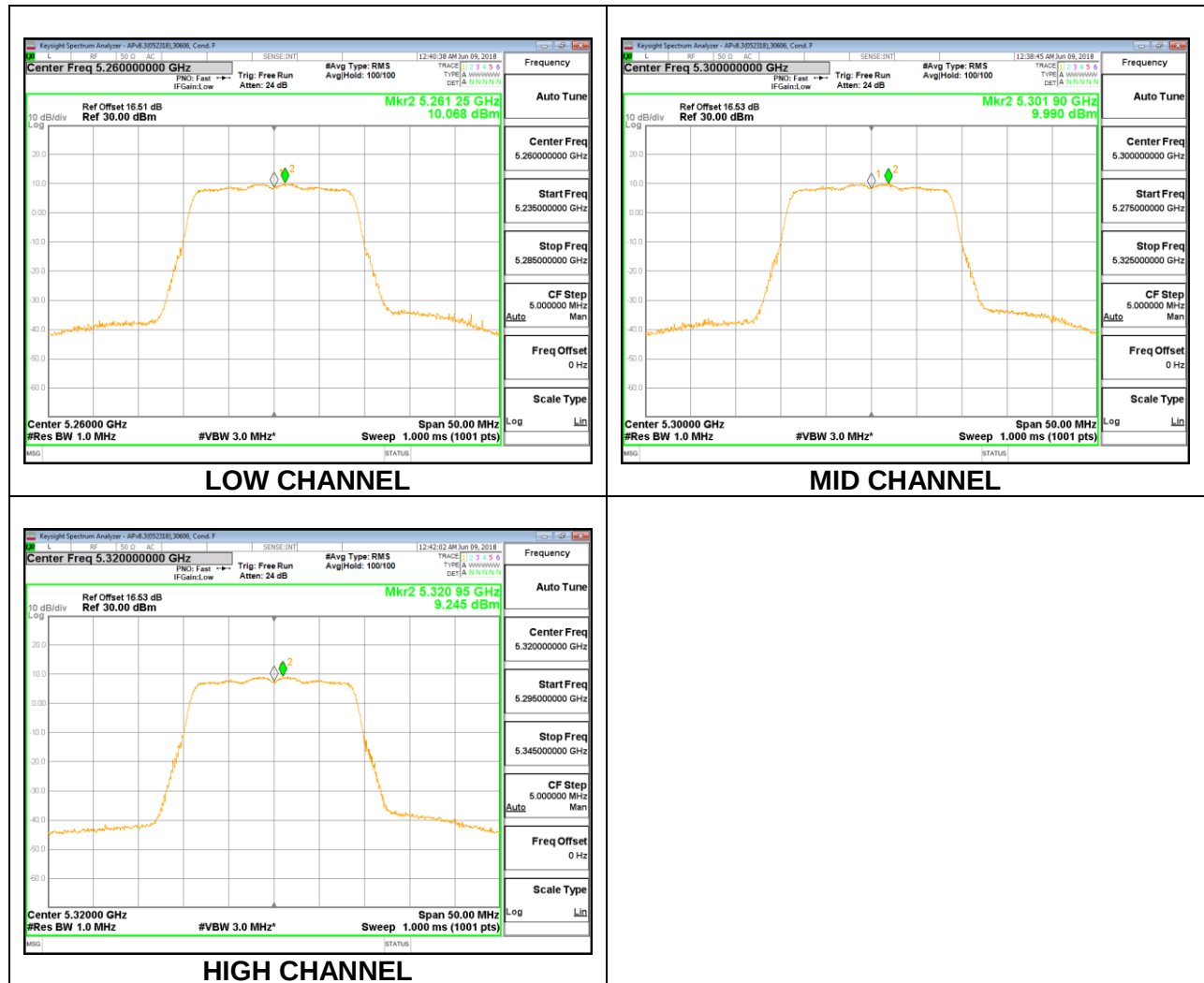
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

##### Output Power Results

| Channel | Frequency<br>(MHz) | Ant 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|---------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5260               | 20.81                           | 20.81                             | 24.00                   | -3.19                   |
| Mid     | 5300               | 20.78                           | 20.78                             | 24.00                   | -3.22                   |
| High    | 5320               | 18.79                           | 18.79                             | 24.00                   | -5.21                   |

##### PSD Results

| Channel | Frequency<br>(MHz) | Ant 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5260               | 10.068                             | 10.07                                | 11.00                      | -0.93                 |
| Mid     | 5300               | 9.990                              | 9.99                                 | 11.00                      | -1.01                 |
| High    | 5320               | 9.245                              | 9.25                                 | 11.00                      | -1.76                 |



**1TX Antenna 5 (FCC)**

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5260               | 22.05                       | -5.00                        | 24.00                   | 11.00                      |
| Mid     | 5300               | 22.25                       | -5.00                        | 24.00                   | 11.00                      |
| High    | 5320               | 22.15                       | -5.00                        | 24.00                   | 11.00                      |

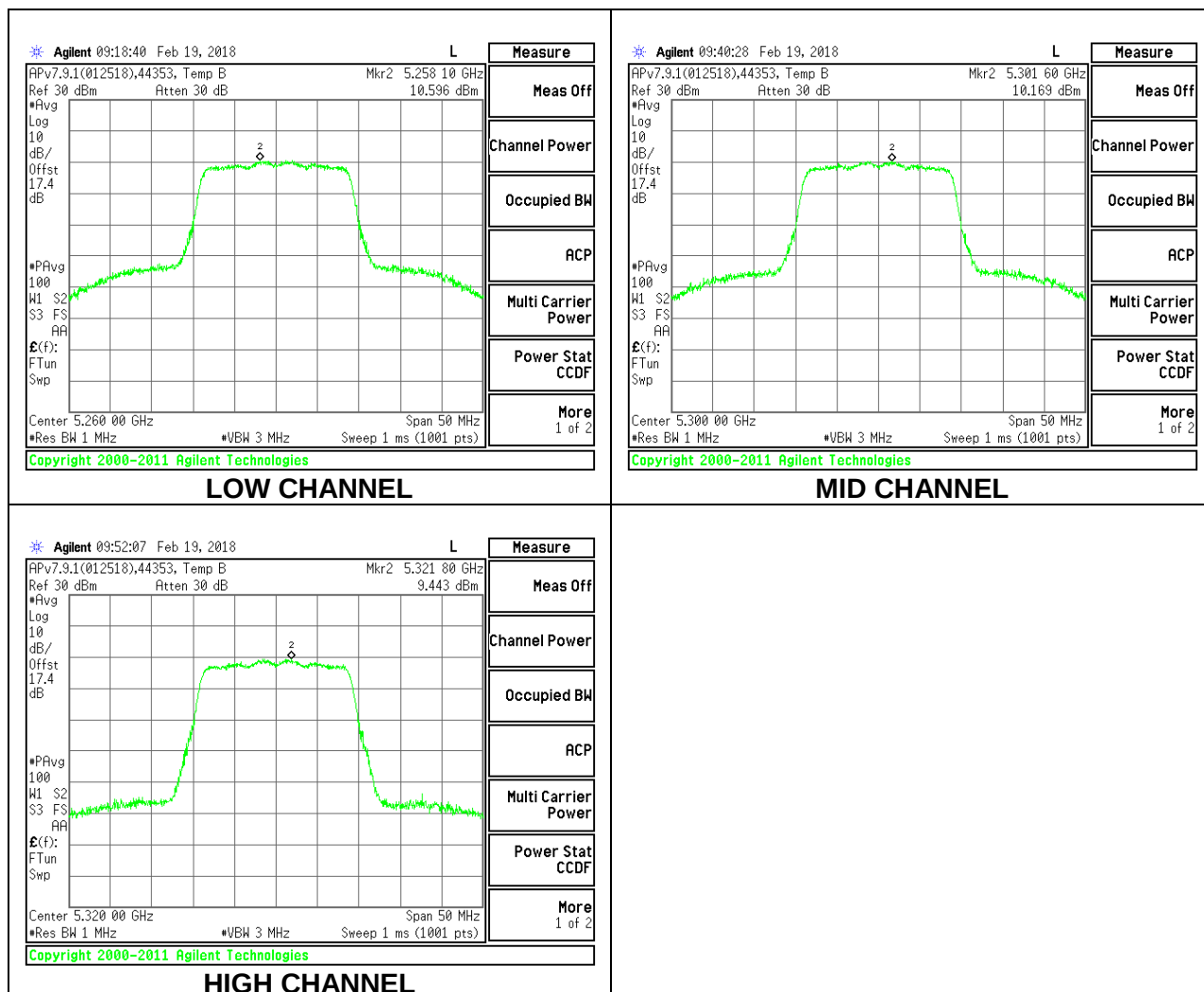
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Ant 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|---------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5260               | 20.94                           | 20.94                             | 24.00                   | -3.06                   |
| Mid     | 5300               | 20.86                           | 20.86                             | 24.00                   | -3.14                   |
| High    | 5320               | 18.97                           | 18.97                             | 24.00                   | -5.03                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Ant 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5260               | 10.596                             | 10.60                                | 11.00                      | -0.40                 |
| Mid     | 5300               | 10.169                             | 10.17                                | 11.00                      | -0.83                 |
| High    | 5320               | 9.443                              | 9.44                                 | 11.00                      | -1.56                 |



**2TX Antenna 6 + Antenna 5 CDD MODE (FCC)**

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5260               | 21.65                       | -4.74                                     | -1.74                                   | 24.00                   | 11.00                      |
| Mid     | 5300               | 21.65                       | -4.74                                     | -1.74                                   | 24.00                   | 11.00                      |
| High    | 5320               | 21.85                       | -4.74                                     | -1.74                                   | 24.00                   | 11.00                      |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

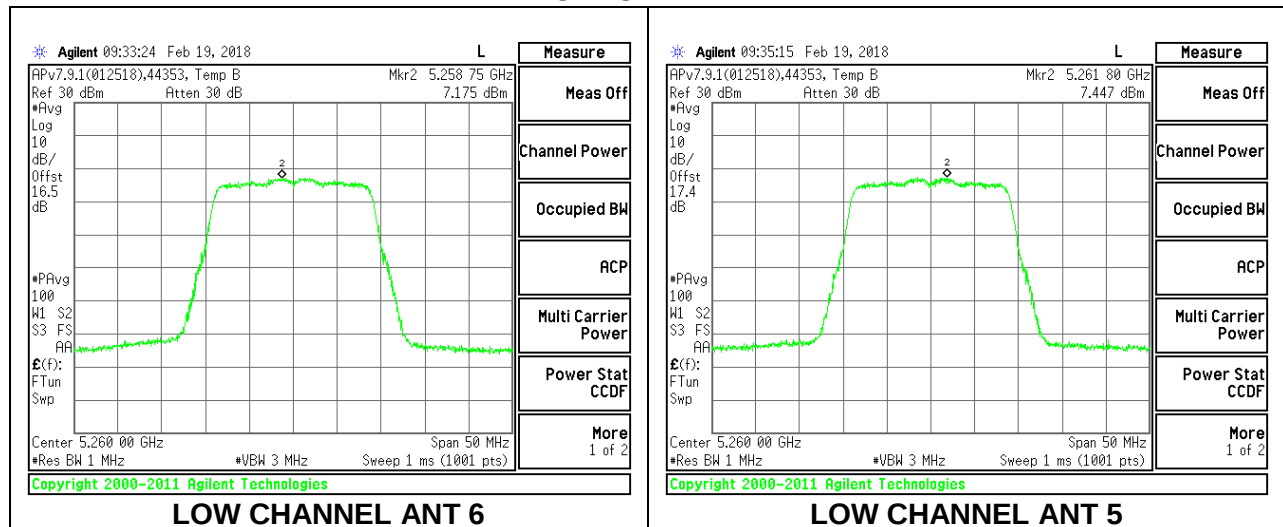
**Output Power Results**

| Channel | Frequency<br>(MHz) | Ant 6<br>Meas<br>Power<br>(dBm) | Ant 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|---------------------------------|---------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5260               | 17.77                           | 17.82                           | 20.81                             | 24.00                   | -3.19                   |
| Mid     | 5300               | 17.84                           | 17.98                           | 20.92                             | 24.00                   | -3.08                   |
| High    | 5320               | 17.90                           | 17.78                           | 20.85                             | 24.00                   | -3.15                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Ant 6<br>Meas<br>PSD<br>(dBm/1MHz) | Ant 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------|------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5260               | 7.18                               | 7.45                               | 10.32                                | 11.00                      | -0.68                 |
| Mid     | 5300               | 7.51                               | 7.61                               | 10.57                                | 11.00                      | -0.43                 |
| High    | 5320               | 7.61                               | 7.44                               | 10.54                                | 11.00                      | -0.46                 |

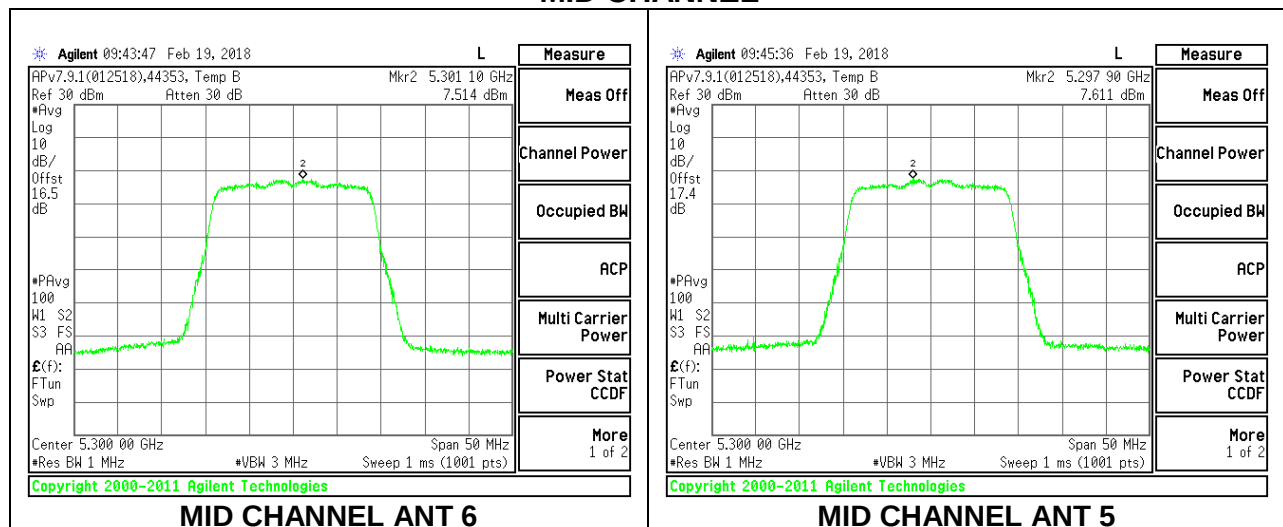
## LOW CHANNEL



LOW CHANNEL ANT 6

LOW CHANNEL ANT 5

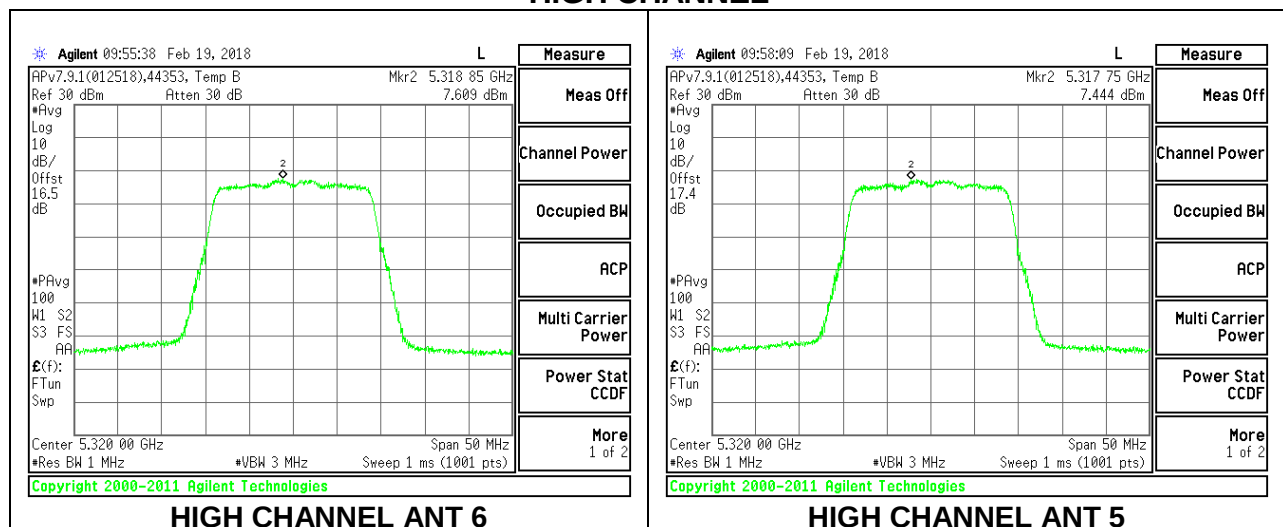
## MID CHANNEL



MID CHANNEL ANT 6

MID CHANNEL ANT 5

## HIGH CHANNEL



HIGH CHANNEL ANT 6

HIGH CHANNEL ANT 5

## 8.5.5. 802.11n HT40 MODE IN THE 5.3 GHz BAND

### 1TX Antenna 6 (FCC)

#### Bandwidth, Antenna Gain, and Limits

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5270               | 40.60                       | -4.50                        | 24.00                   | 11.00                      |
| High    | 5310               | 40.80                       | -4.50                        | 24.00                   | 11.00                      |

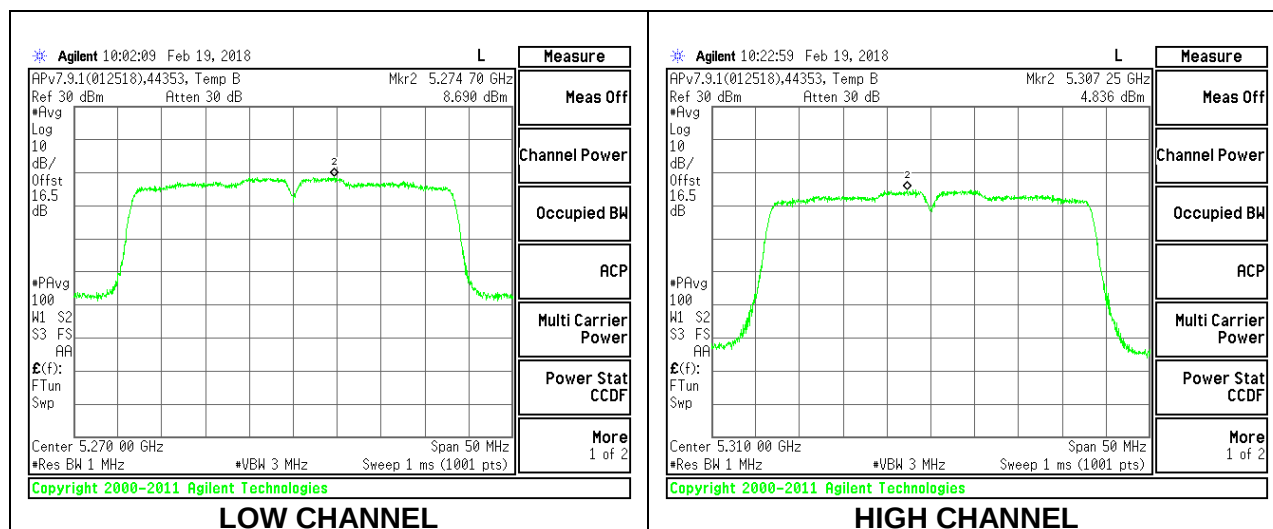
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.09 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

#### Output Power Results

| Channel | Frequency<br>(MHz) | Ant 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|---------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5270               | 20.84                           | 20.84                             | 24.00                   | -3.16                   |
| High    | 5310               | 17.41                           | 17.41                             | 24.00                   | -6.59                   |

#### PSD Results

| Channel | Frequency<br>(MHz) | Ant 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5270               | 8.690                              | 8.78                                 | 11.00                      | -2.22                 |
| High    | 5310               | 4.836                              | 4.93                                 | 11.00                      | -6.07                 |



# 1TX Antenna 5 (FCC)

## Bandwidth, Antenna Gain, and Limits

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5270               | 40.20                       | -5.00                        | 24.00                   | 11.00                      |
| High    | 5310               | 40.20                       | -5.00                        | 24.00                   | 11.00                      |

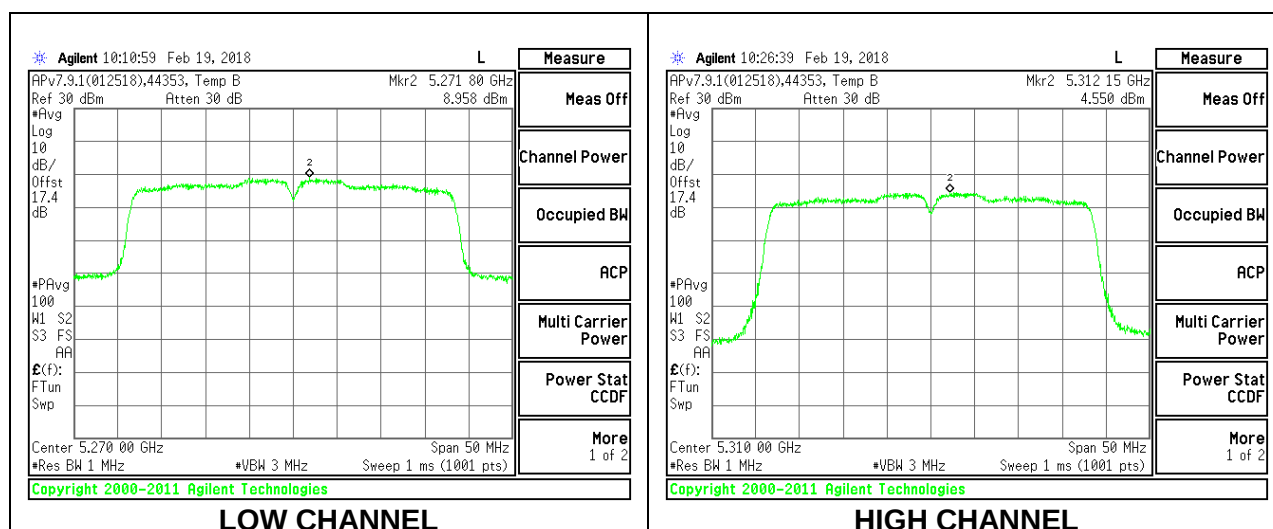
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.09 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

## Output Power Results

| Channel | Frequency<br>(MHz) | Ant 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|---------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5270               | 21.82                           | 21.82                             | 24.00                   | -2.18                   |
| High    | 5310               | 17.46                           | 17.46                             | 24.00                   | -6.54                   |

## PSD Results

| Channel | Frequency<br>(MHz) | Ant 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5270               | 8.958                              | 9.05                                 | 11.00                      | -1.95                 |
| High    | 5310               | 4.550                              | 4.64                                 | 11.00                      | -6.36                 |



**2TX Antenna 6 + Antenna 5 CDD MODE (FCC)**

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5270               | 40.10                       | -4.74                                     | -1.74                                   | 24.00                   | 11.00                      |
| High    | 5310               | 40.10                       | -4.74                                     | -1.74                                   | 24.00                   | 11.00                      |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.09 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

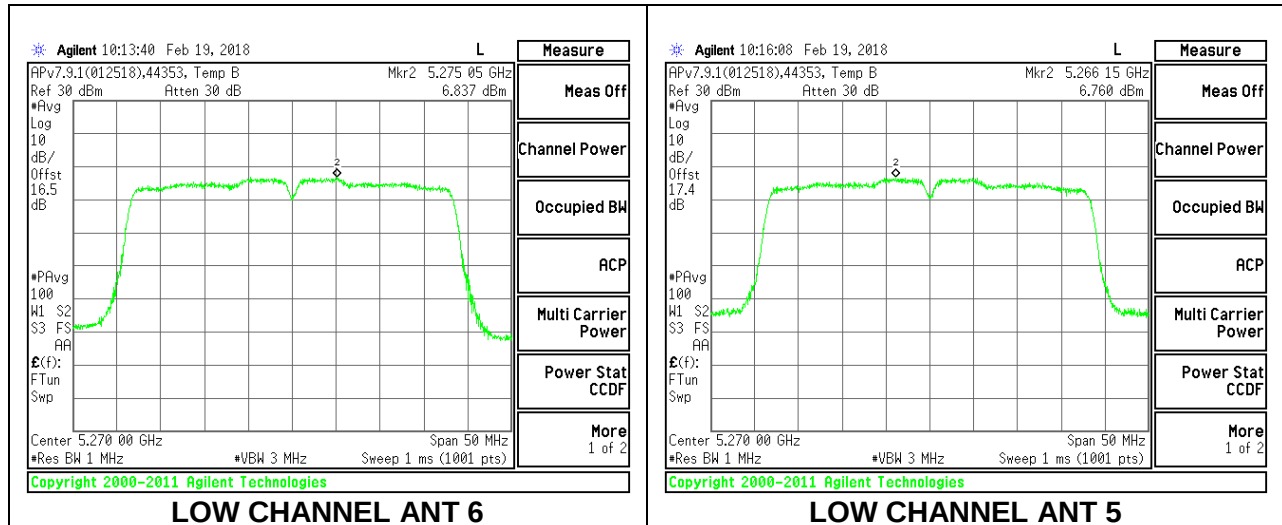
**Output Power Results**

| Channel | Frequency<br>(MHz) | Ant 6<br>Meas<br>Power<br>(dBm) | Ant 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|---------------------------------|---------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5270               | 19.97                           | 19.90                           | 22.95                             | 24.00                   | -1.05                   |
| High    | 5310               | 16.80                           | 16.89                           | 19.86                             | 24.00                   | -4.14                   |

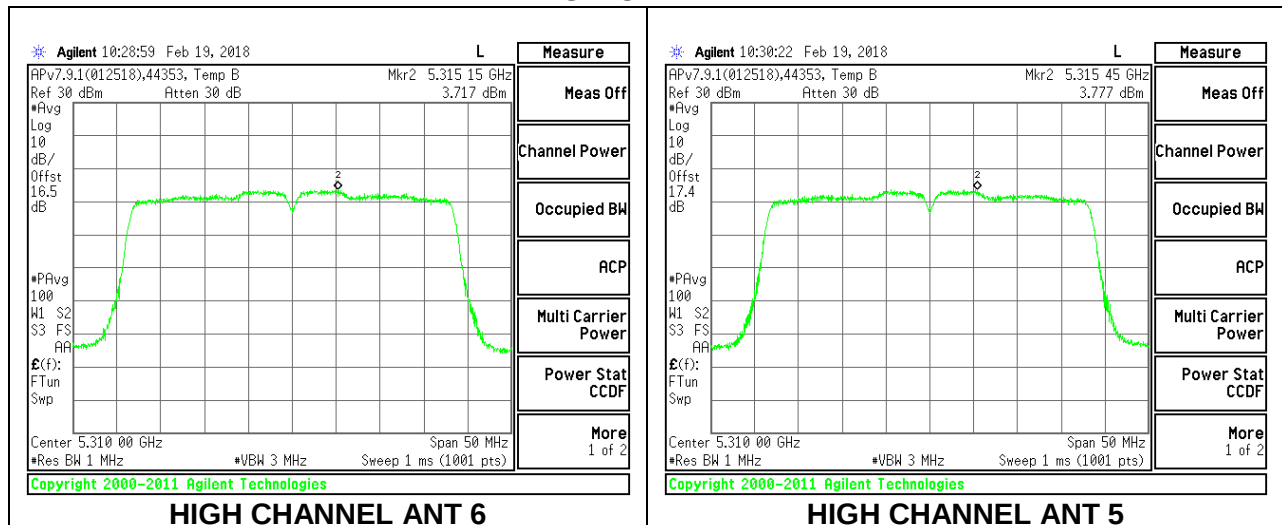
**PSD Results**

| Channel | Frequency<br>(MHz) | Ant 6<br>Meas<br>PSD<br>(dBm/1MHz) | Ant 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------|------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5270               | 6.84                               | 6.76                               | 9.90                                 | 11.00                      | -1.10                 |
| High    | 5310               | 3.72                               | 3.78                               | 6.85                                 | 11.00                      | -4.15                 |

## LOW CHANNEL



## HIGH CHANNEL



### 8.5.6. 802.11ac VHT80 MODE IN THE 5.3 GHz BAND

#### 1TX Antenna 6 (FCC)

##### Bandwidth, Antenna Gain, and Limits

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Mid     | 5290               | 82.40                       | -4.50                        | 24.00                   | 11.00                      |

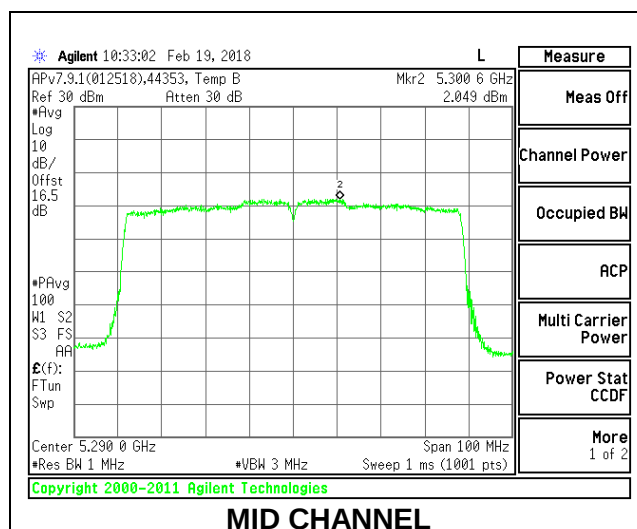
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.19 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

##### Output Power Results

| Channel | Frequency<br>(MHz) | Ant 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|---------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5290               | 17.38                           | 17.38                             | 24.00                   | -6.62                   |

##### PSD Results

| Channel | Frequency<br>(MHz) | Ant 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Mid     | 5290               | 2.049                              | 2.24                                 | 11.00                      | -8.76                 |



# **1TX Antenna 5 (FCC)**

## **Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Mid     | 5290               | 82.80                       | -5.00                        | 24.00                   | 11.00                      |

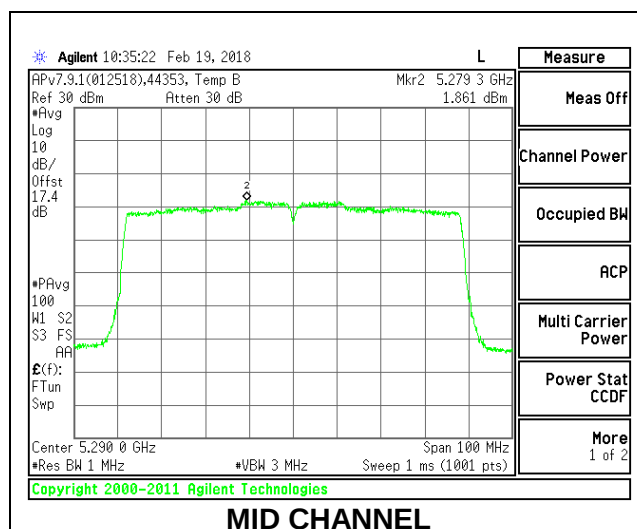
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.19 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

## **Output Power Results**

| Channel | Frequency<br>(MHz) | Ant 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|---------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5290               | 17.34                           | 17.34                             | 24.00                   | -6.66                   |

## **PSD Results**

| Channel | Frequency<br>(MHz) | Ant 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Mid     | 5290               | 1.861                              | 2.05                                 | 11.00                      | -8.95                 |



## 2TX Antenna 6 + Antenna 5 CDD MODE (FCC)

### Bandwidth, Antenna Gain, and Limits

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Mid     | 5290               | 82.60                       | -4.74                                     | -1.74                                   | 24.00                   | 11.00                      |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.19 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

### Output Power Results

| Channel | Frequency<br>(MHz) | Ant 6<br>Meas<br>Power<br>(dBm) | Ant 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|---------------------------------|---------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5290               | 16.33                           | 16.47                           | 19.41                             | 24.00                   | -4.59                   |

### PSD Results

| Channel | Frequency<br>(MHz) | Ant 6<br>Meas<br>PSD<br>(dBm/1MHz) | Ant 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------|------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Mid     | 5290               | 1.04                               | 1.23                               | 4.33                                 | 11.00                      | -6.67                 |

## MID CHANNEL

