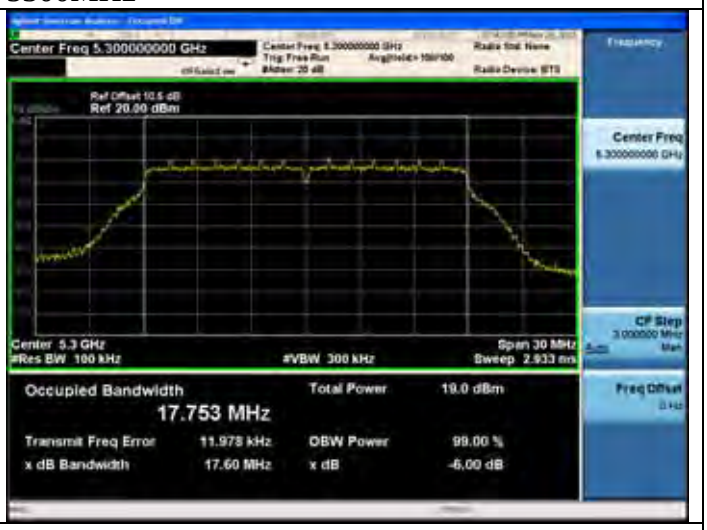
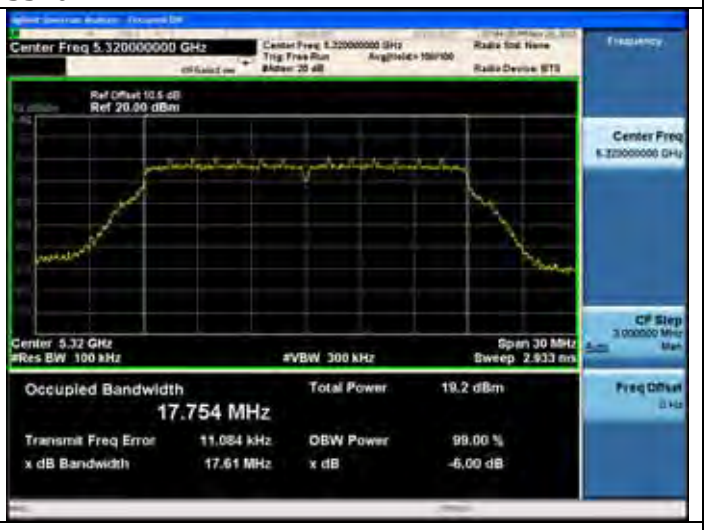
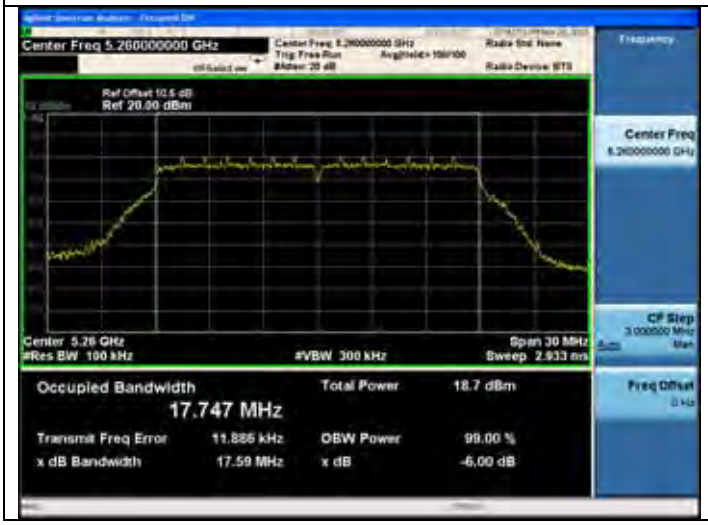
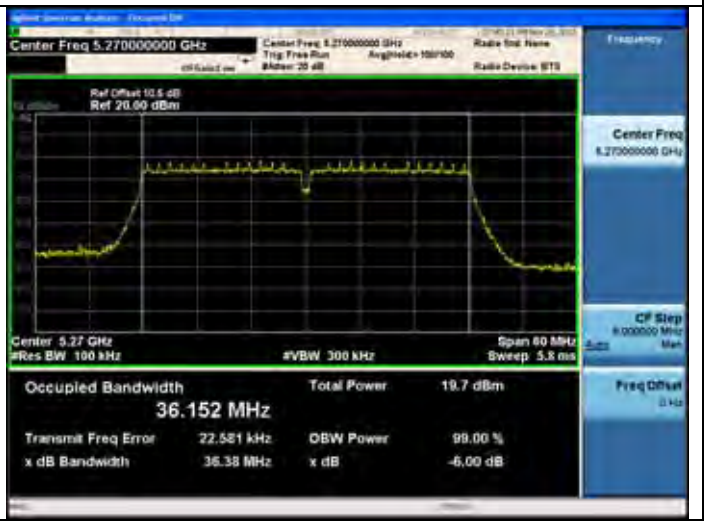
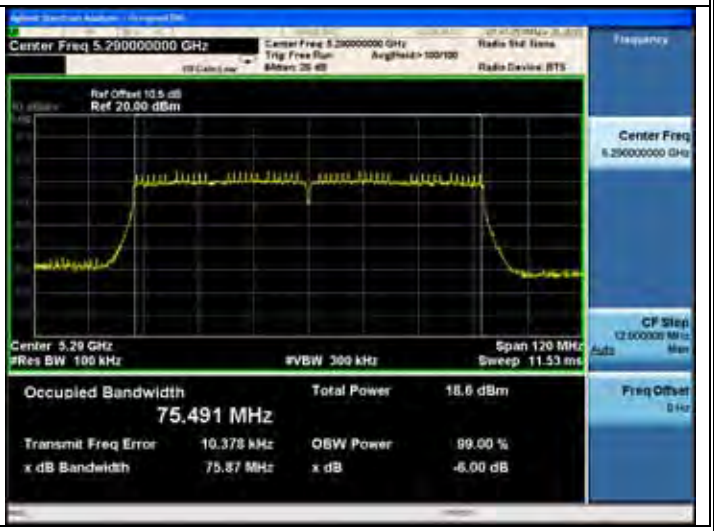
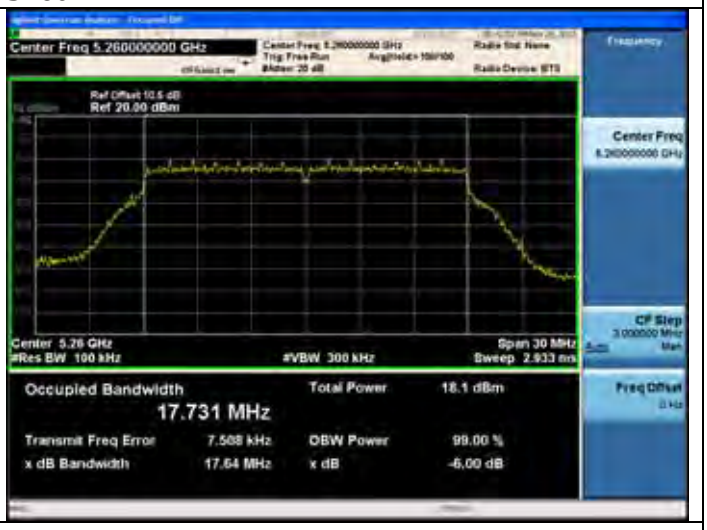
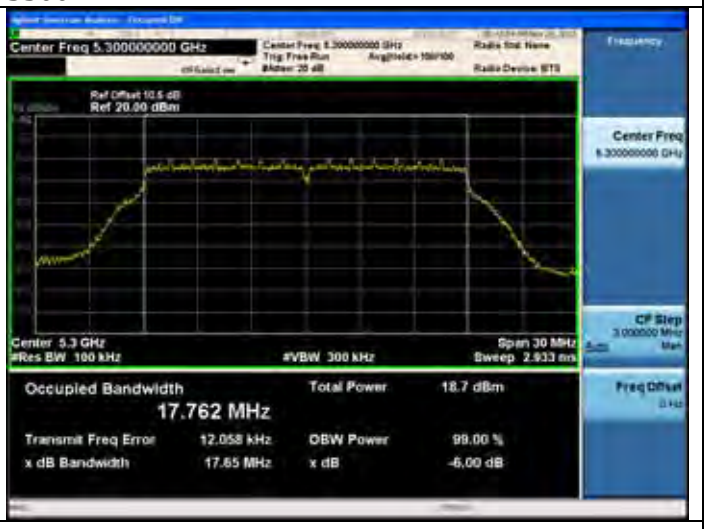
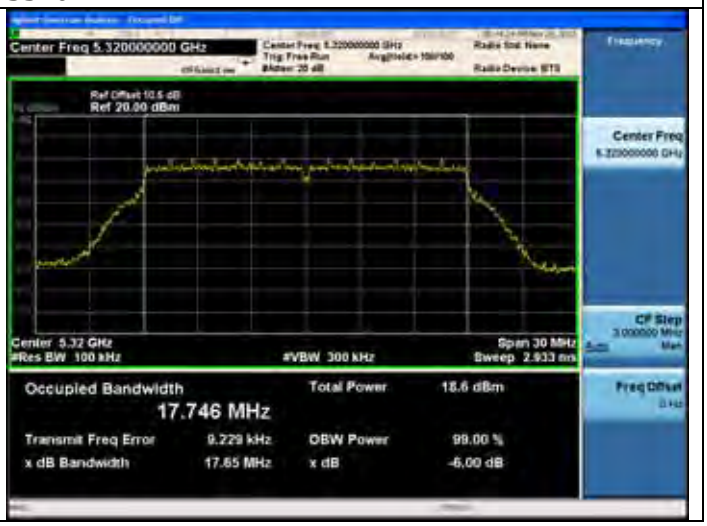
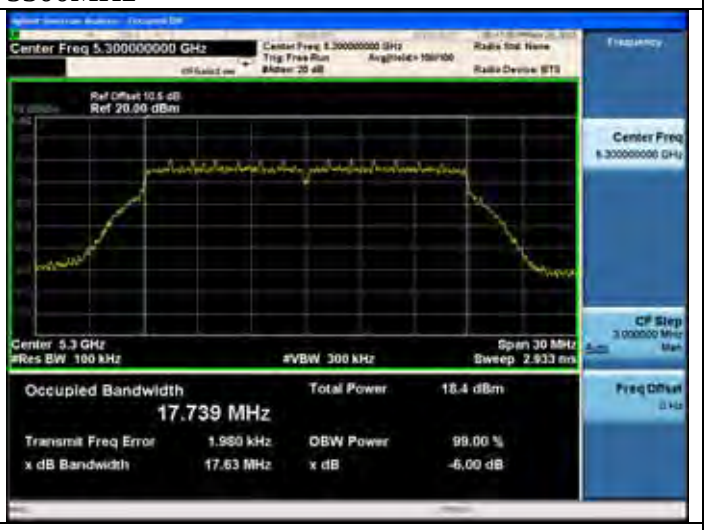
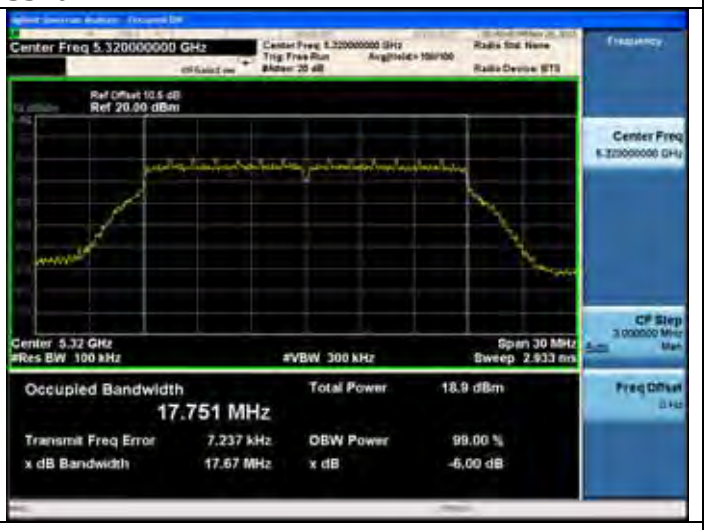
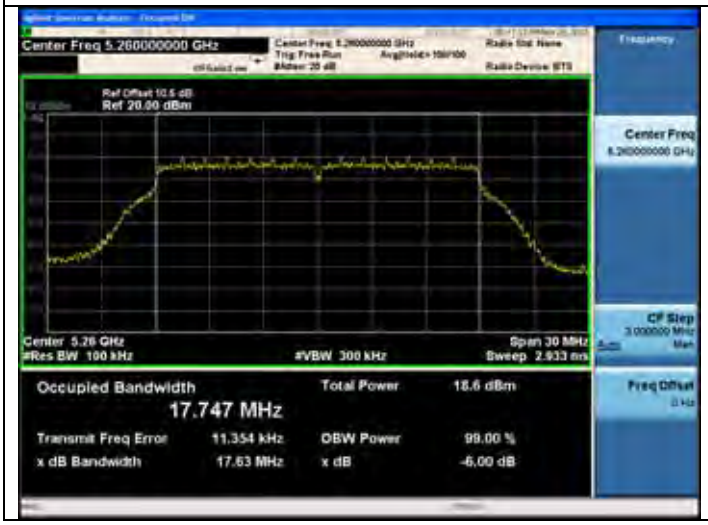
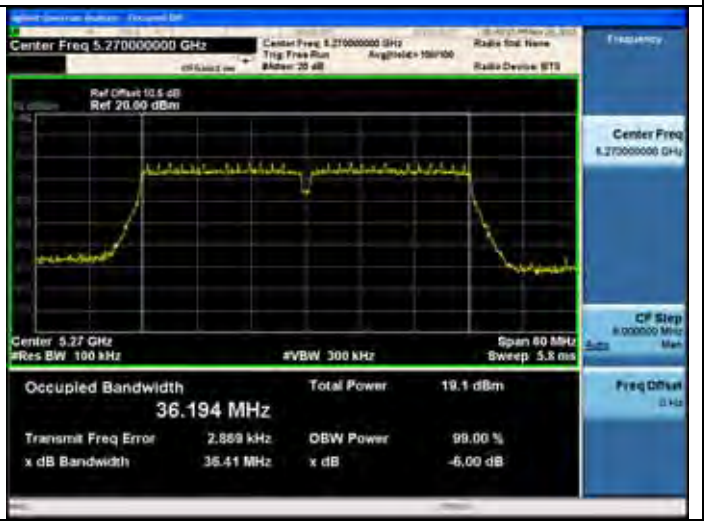
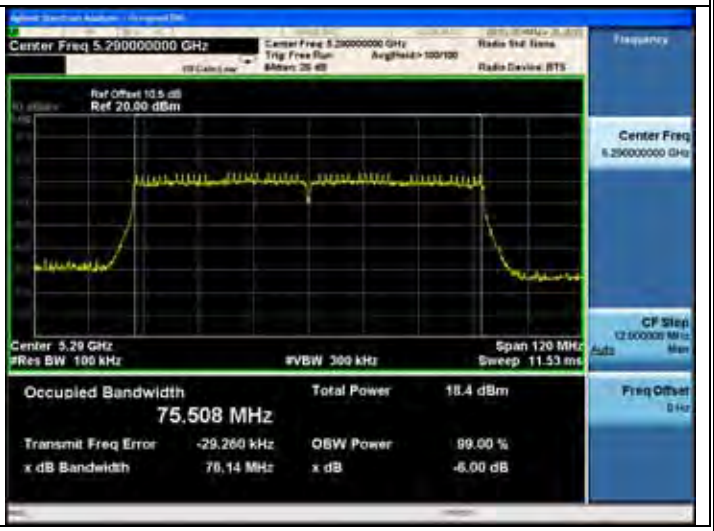
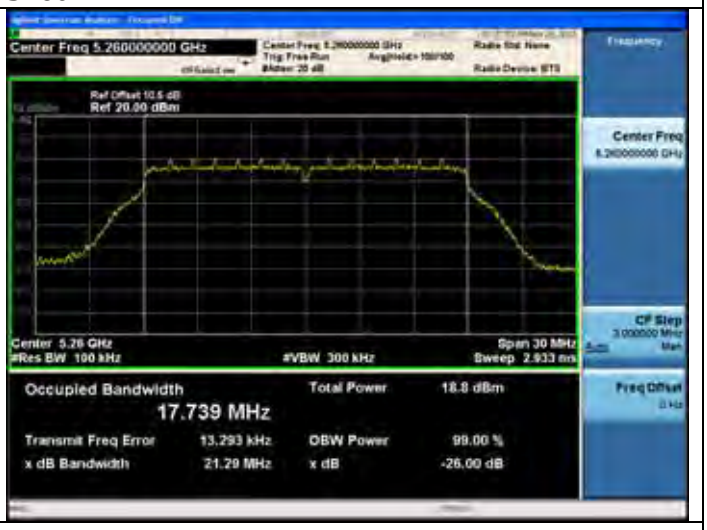
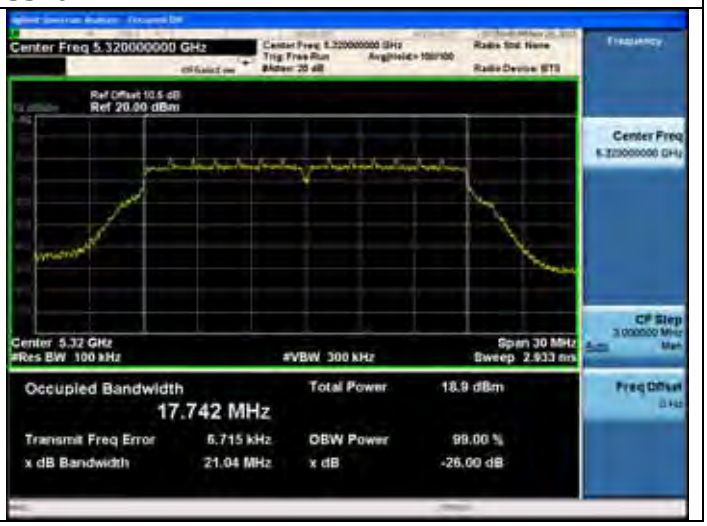
| **11n HT40** | |
|---|---|
| 5270MHz | 5300MHz |
|  |  |
| 5310MHz | 5320MHz |
|  |  |
| **11ac VHT20** | **11ac VHT40** |
| 5260MHz | 5270MHz |
|  |  |

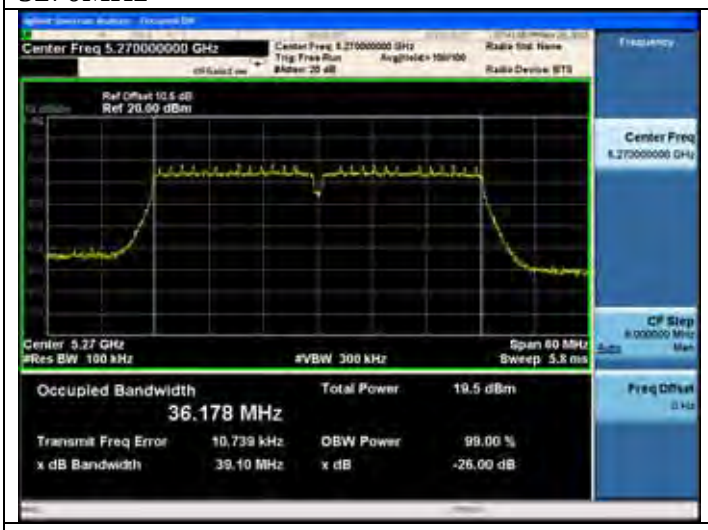
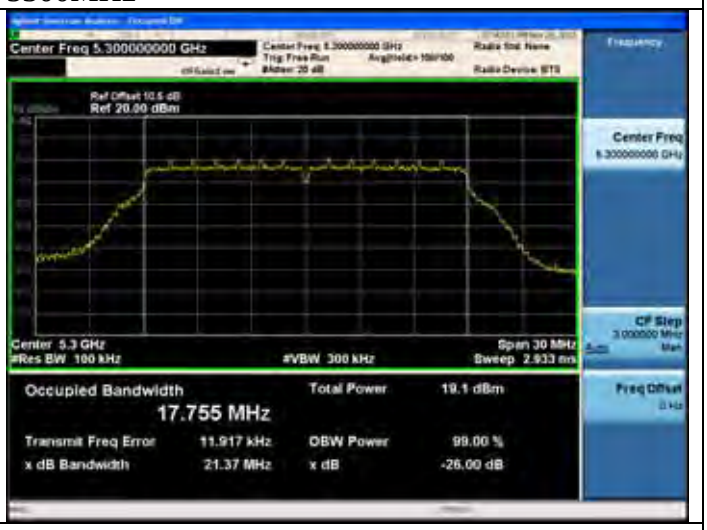
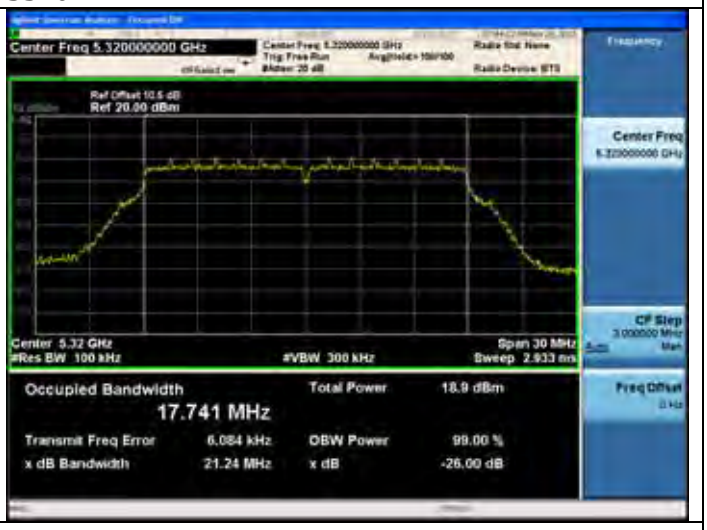
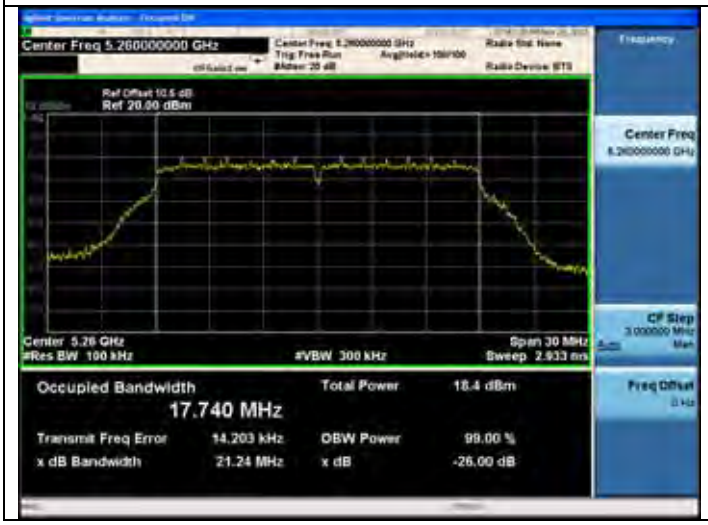
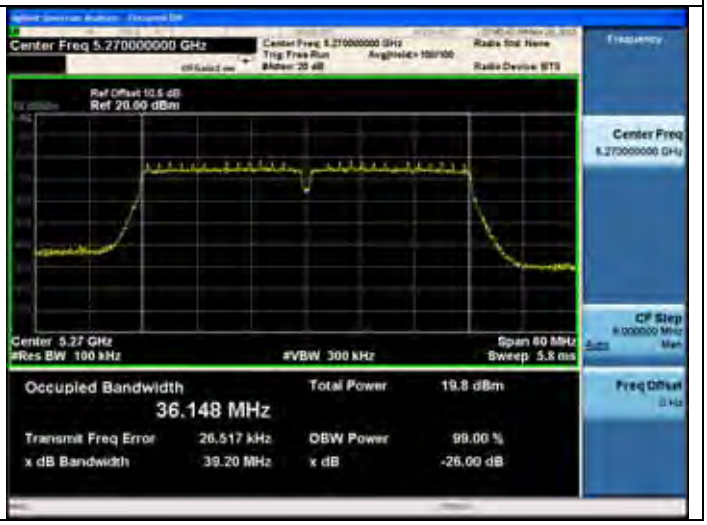
| | |
|---|---|
| | **11ac VHT80** |
| 5310MHz | 5290MHz |
|  |  |

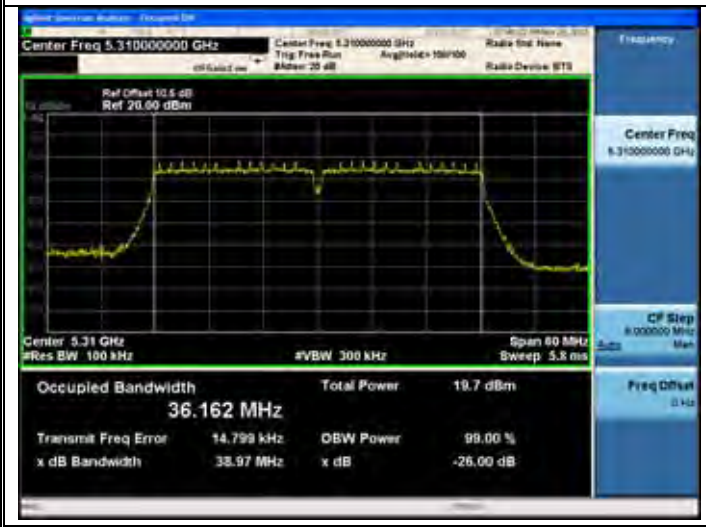
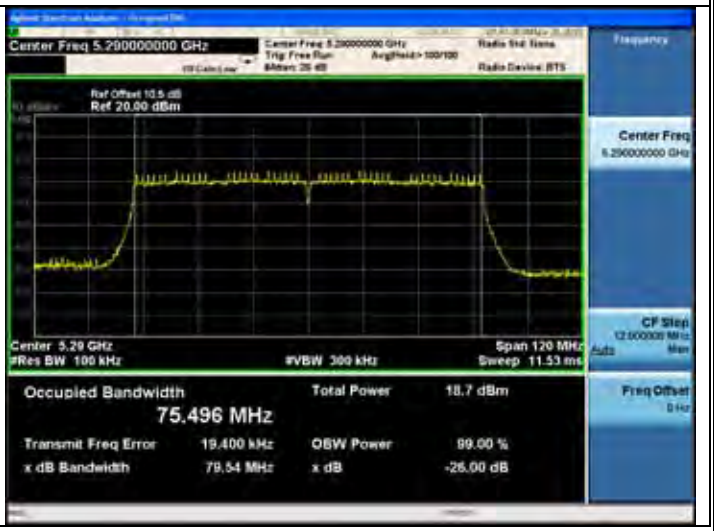
| **5260-5320MHz Band:** | |
|---|---|
| **6dB bandwidth** | |
| **ANT 1** | |
| **11a** | **11n HT20** |
| 5260MHz | 5260MHz |
|  |  |
| 5300MHz | 5300MHz |
|  |  |
| 5320MHz | 5320MHz |
|  |  |

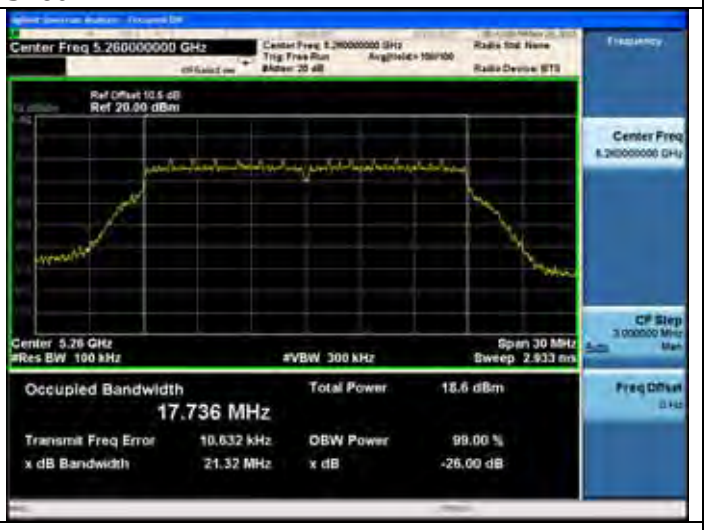
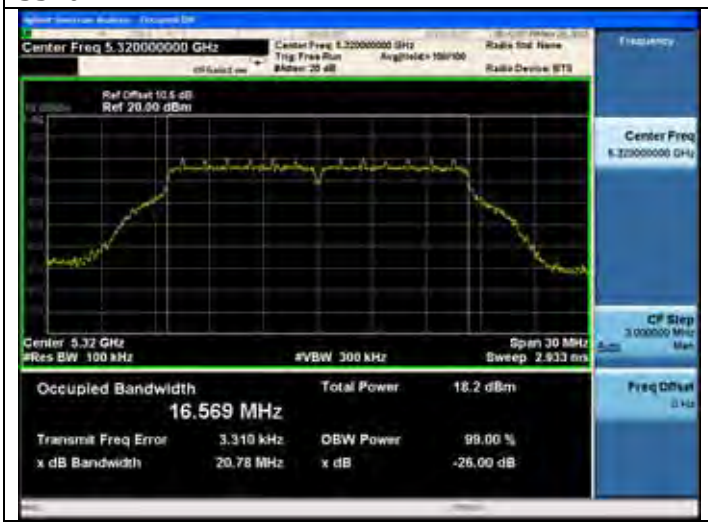
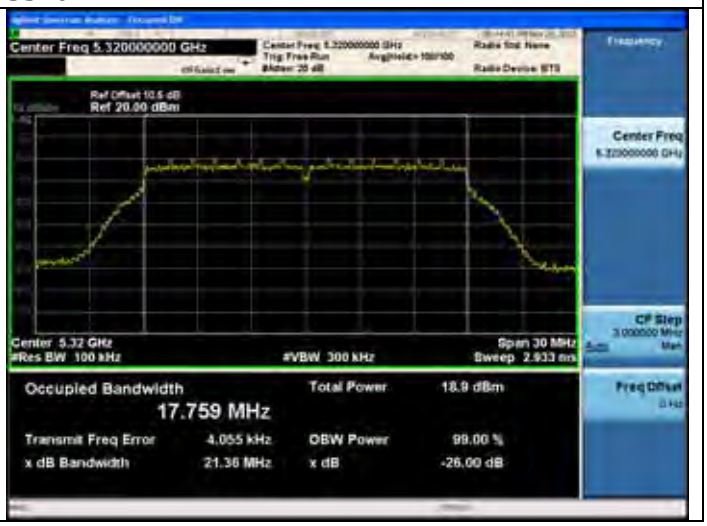
| **11n HT40** | |
|---|---|
| 5270MHz | 5300MHz |
|  |  |
| 5310MHz | 5320MHz |
|  |  |
| **11ac VHT20** | **11ac VHT40** |
| 5260MHz | 5270MHz |
|  |  |

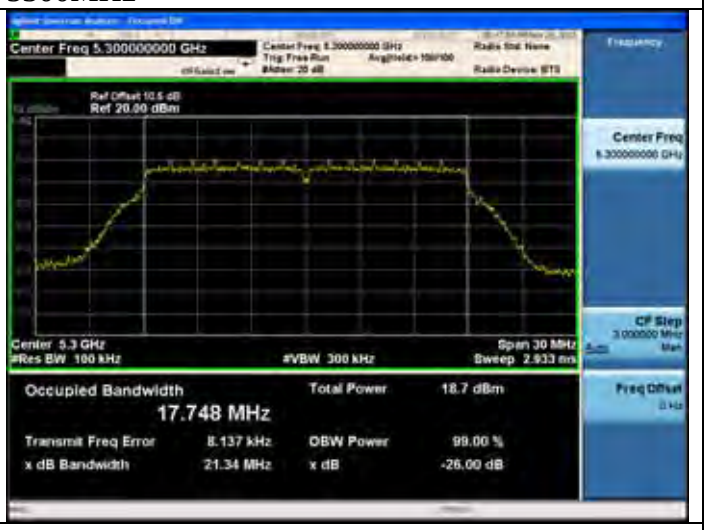
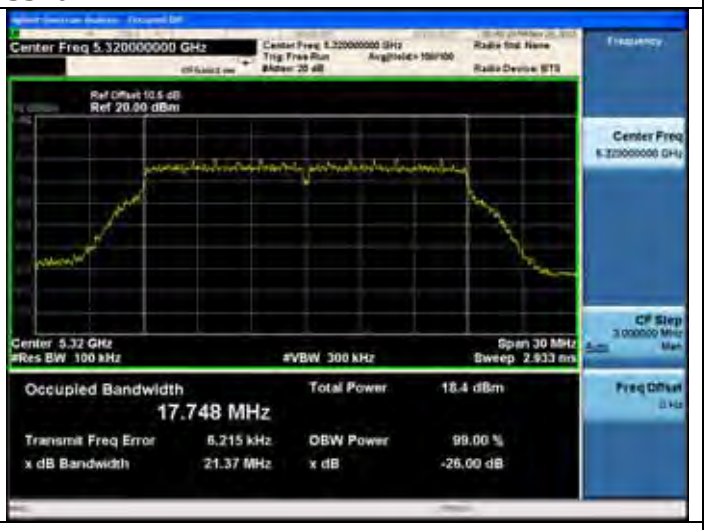
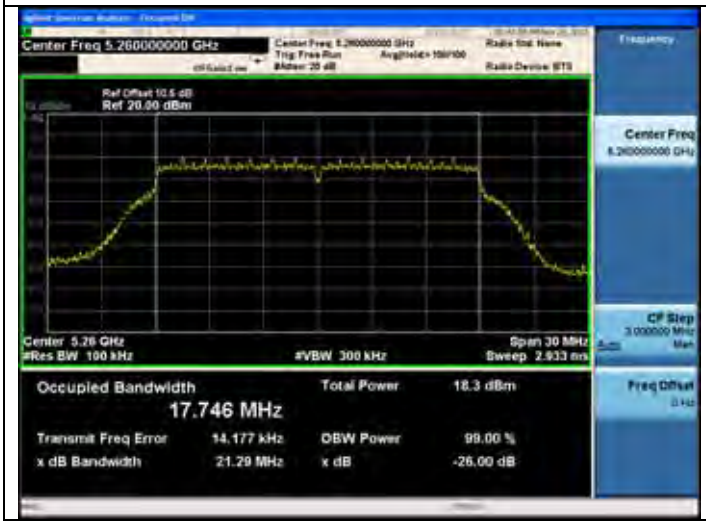
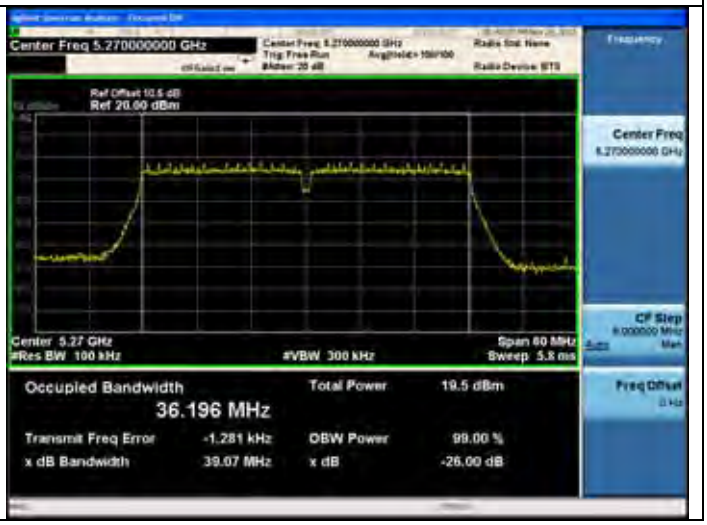
| | |
|---|---|
| | **11ac VHT80** |
| 5310MHz | 5290MHz |
|  |  |

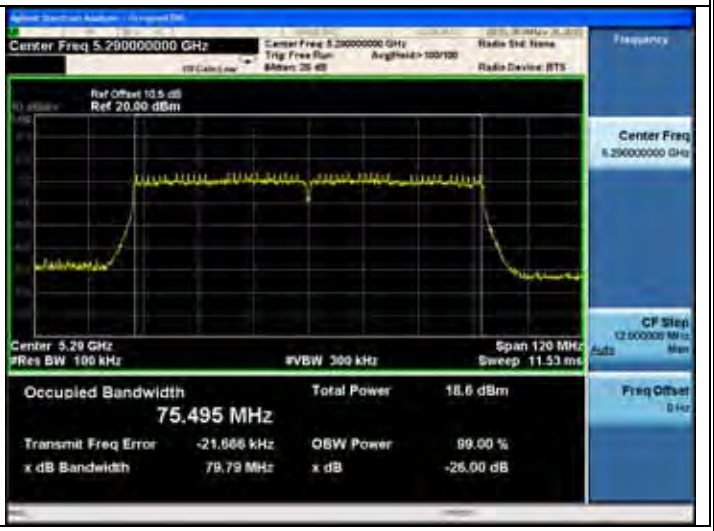
| **5260-5320MHz Band:** | |
|---|---|
| **26dB bandwidth** | |
| **ANT 0** | |
| **11a** | **11n HT20** |
| 5260MHz | 5260MHz |
|  |  |
| 5300MHz | 5300MHz |
|  |  |
| 5320MHz | 5320MHz |
|  |  |

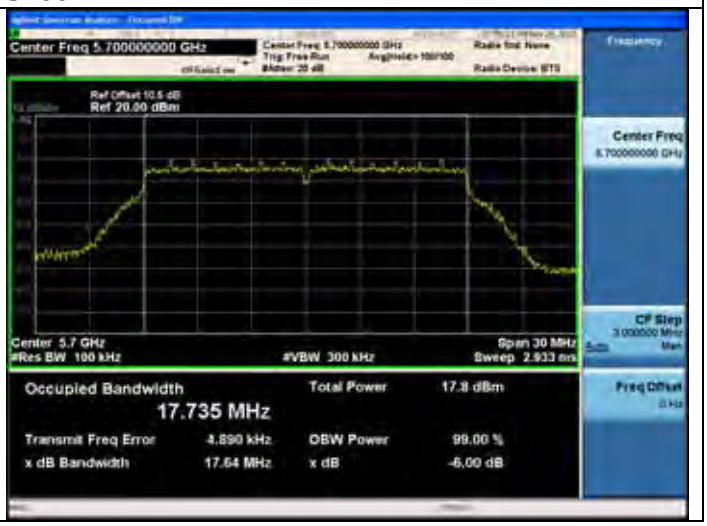
| **11n HT40** | |
|---|---|
| 5270MHz | 5300MHz |
|  |  |
| 5310MHz | 5320MHz |
|  |  |
| **11ac VHT20** | **11ac VHT40** |
| 5260MHz | 5270MHz |
|  |  |

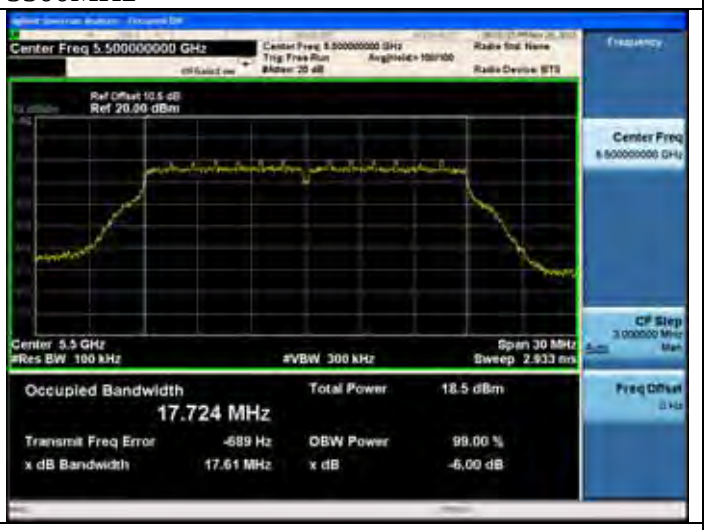
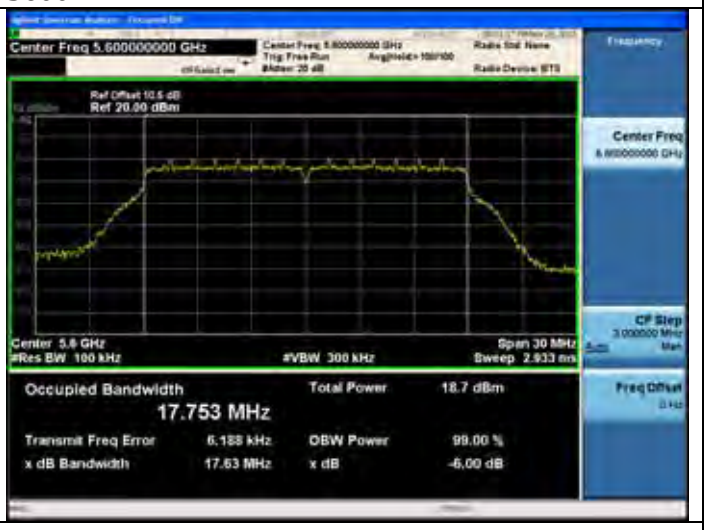
| | |
|---|---|
| | **11ac VHT80** |
| 5310MHz | 5290MHz |
|  |  |

| **5260-5320MHz Band:** | |
|---|---|
| **26dB bandwidth** | |
| **ANT 1** | |
| **11a** | **11n HT20** |
| 5260MHz | 5260MHz |
|  |  |
| 5300MHz | 5300MHz |
|  |  |
| 5320MHz | 5320MHz |
|  |  |

| **11n HT40** | |
|---|---|
| 5270MHz | 5300MHz |
|  |  |
| 5310MHz | 5320MHz |
|  |  |
| **11ac VHT20** | **11ac VHT40** |
| 5260MHz | 5270MHz |
|  |  |

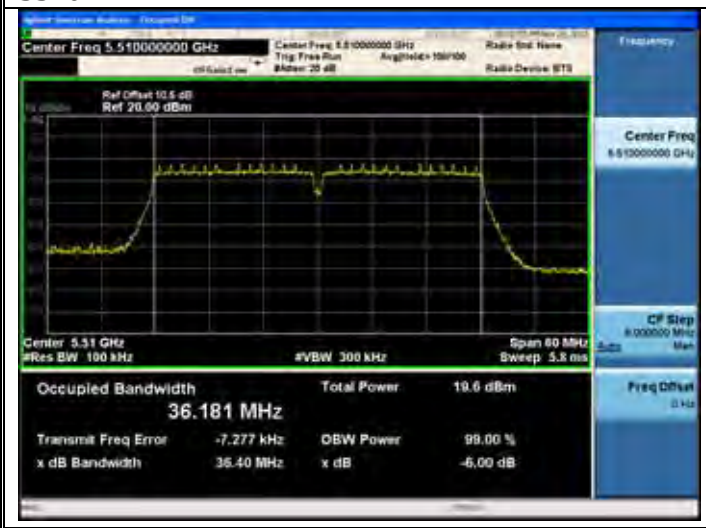
| | |
|---|---|
| | **11ac VHT80** |
| 5310MHz | 5290MHz |
|  |  |

| **5500-5700MHz Band:** | |
|---|---|
| **6dB bandwidth** | |
| **ANT 0** | |
| **11a** | **11n HT20** |
| 5500MHz | 5500MHz |
|  |  |
| 5600MHz | 5600MHz |
|  |  |
| 5700MHz | 5700MHz |
|  |  |

| 11n HT40 | 11ac VHT20 |
|---|---|
| 5510MHz | 5500MHz |
|  |  |
| 5590MHz | 5600MHz |
|  |  |
| 5670MHz | 5700MHz |
|  |  |

**11ac VHT40**

5510MHz

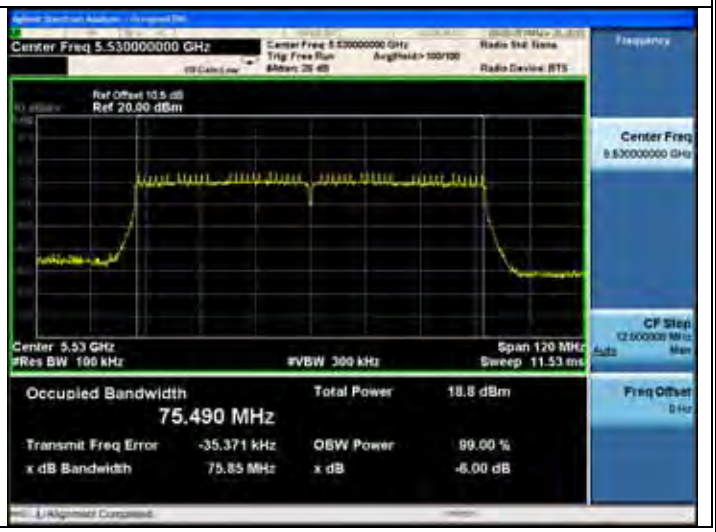


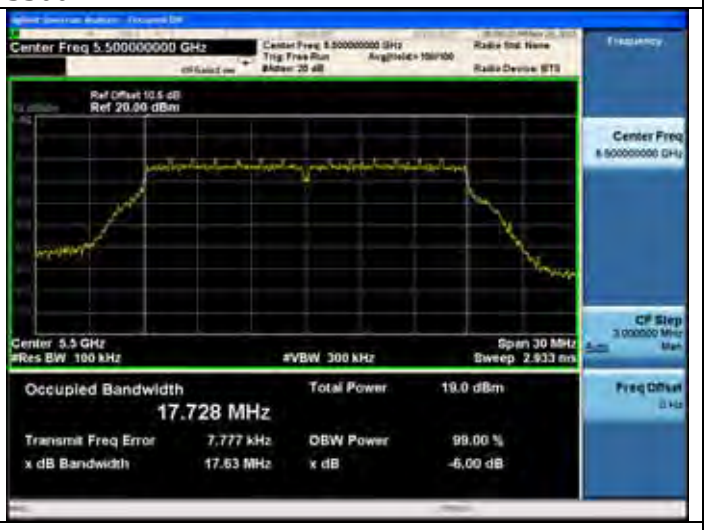
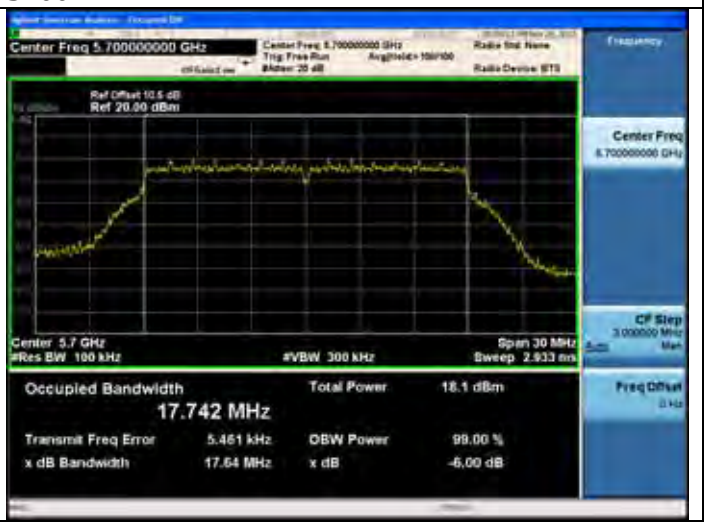

5670MHz

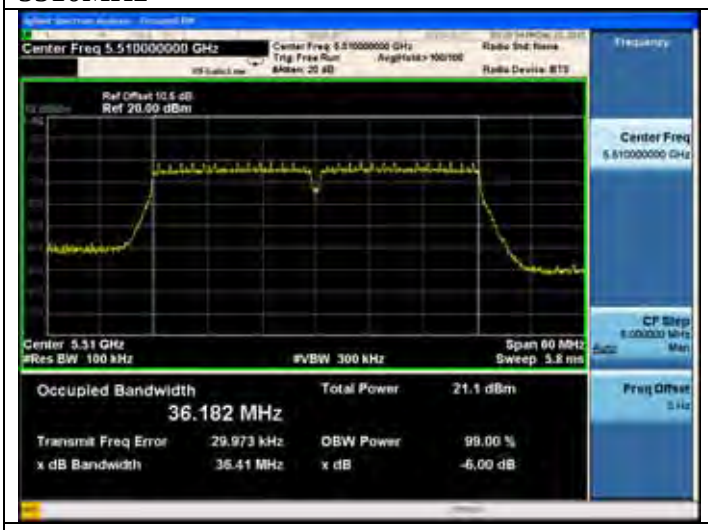
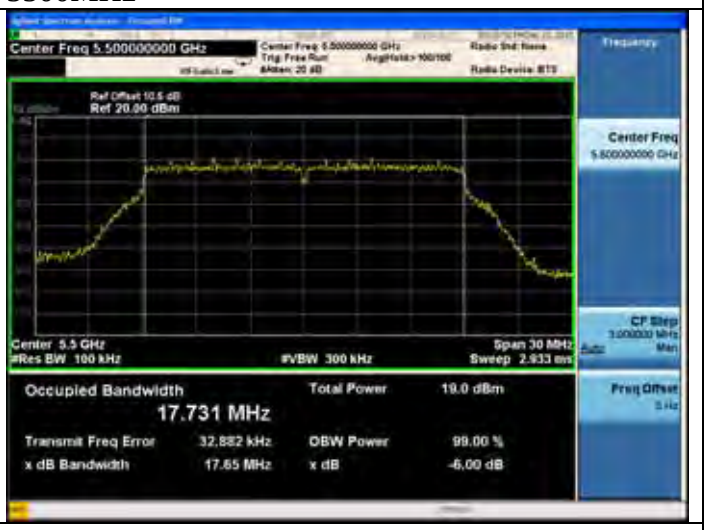
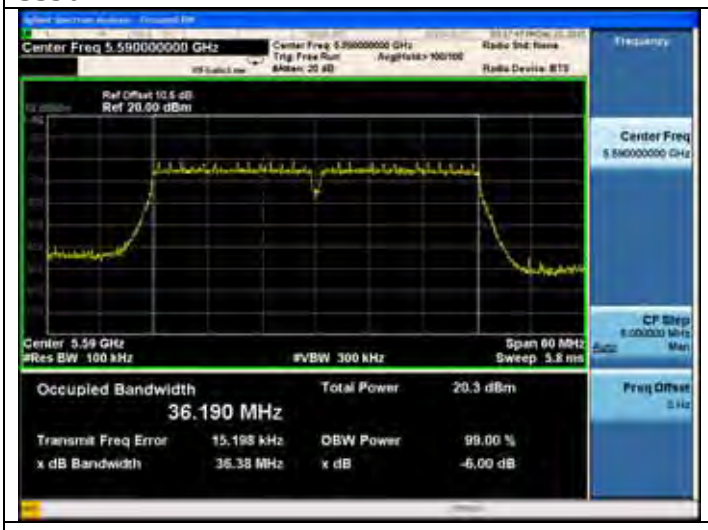
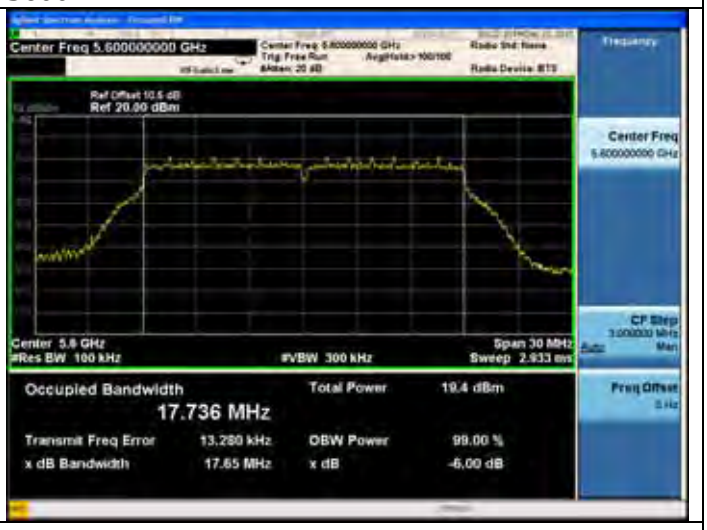
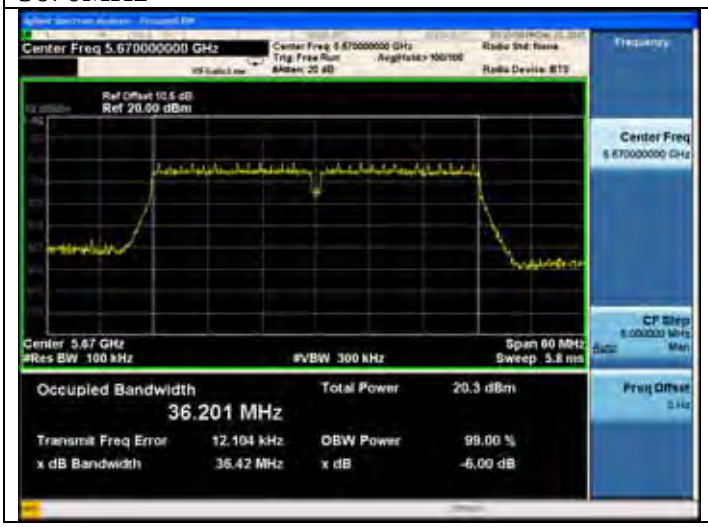

**11ac VHT80**

5590MHz


5530MHz

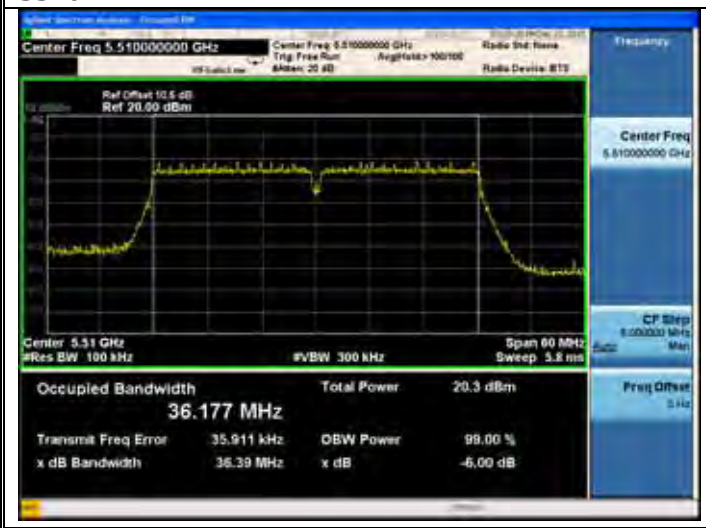


| **5500-5700MHz Band:** | |
|---|---|
| **6dB bandwidth** | |
| **ANT 1** | |
| **11a** | **11n HT20** |
| 5500MHz | 5500MHz |
|  |  |
| 5600MHz | 5600MHz |
|  |  |
| 5700MHz | 5700MHz |
|  |  |

| 11n HT40 | 11ac VHT20 |
|---|---|
| 5510MHz | 5500MHz |
|  |  |
| 5590MHz | 5600MHz |
|  |  |
| 5670MHz | 5700MHz |
|  |  |

**11ac VHT40**

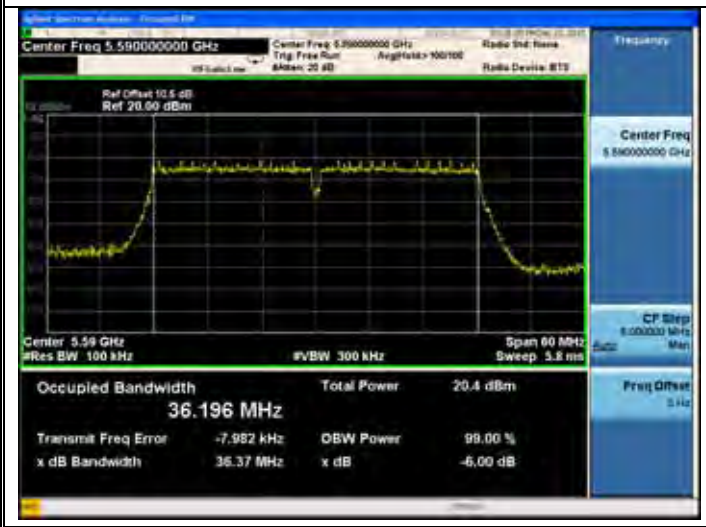
5510MHz



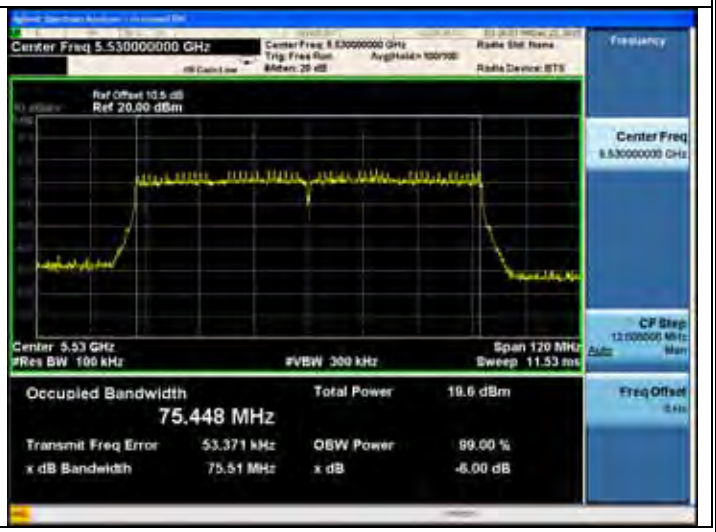

5670MHz

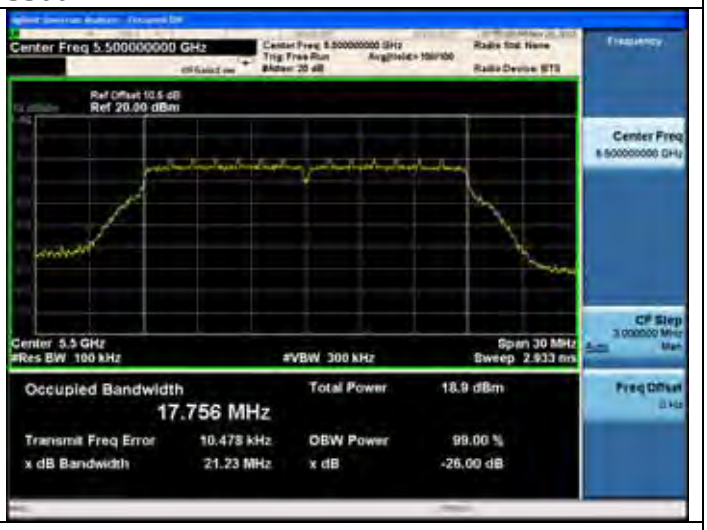
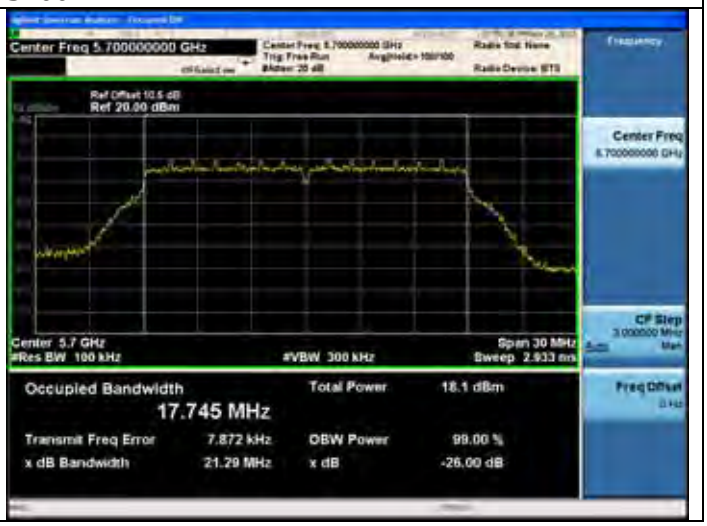

**11ac VHT80**

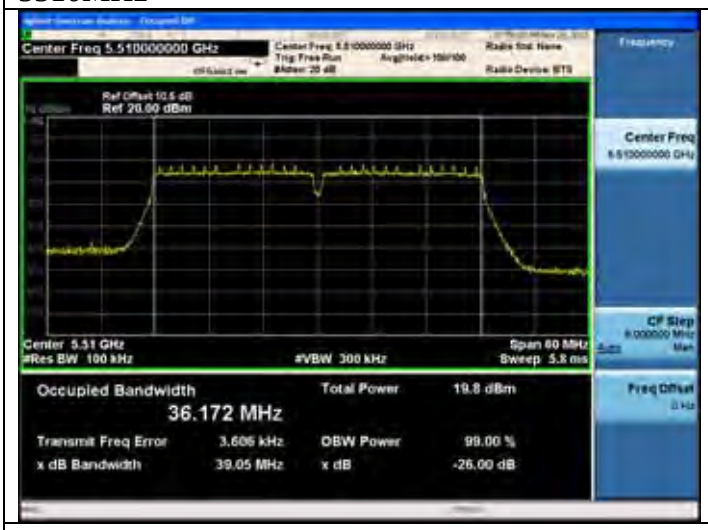
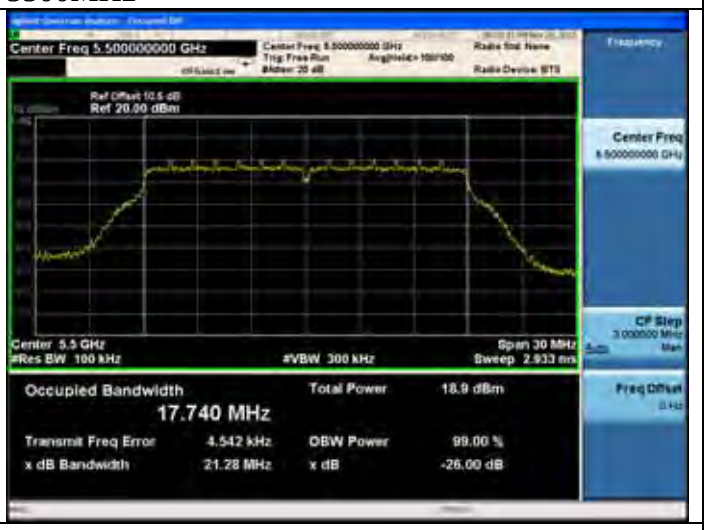
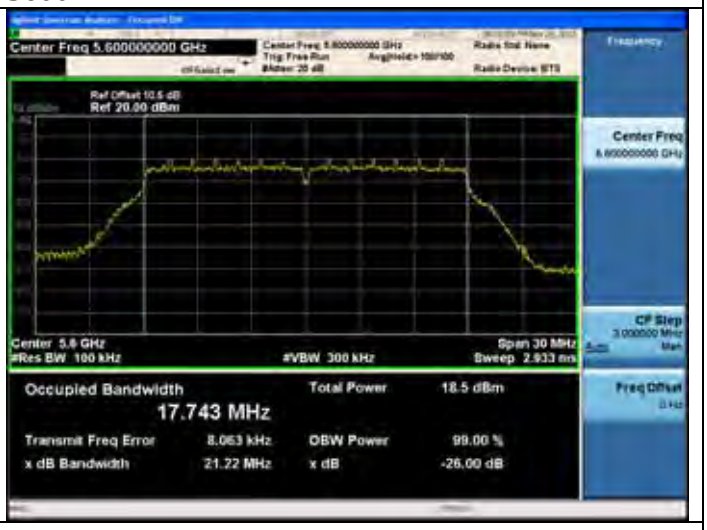
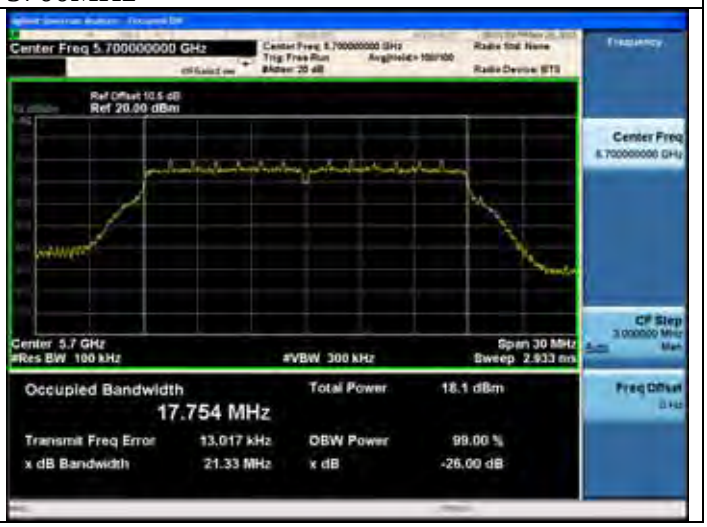
5590MHz




5530MHz



| **5500-5700MHz Band:** | |
|---|---|
| **26dB bandwidth** | |
| **ANT 0** | |
| **11a** | **11n HT20** |
| 5500MHz | 5500MHz |
|  |  |
| 5600MHz | 5600MHz |
|  |  |
| 5700MHz | 5700MHz |
|  |  |

| 11n HT40 | 11ac VHT20 |
|---|---|
| 5510MHz | 5500MHz |
|  |  |
| 5590MHz | 5600MHz |
|  |  |
| 5670MHz | 5700MHz |
|  |  |

**11ac VHT40**

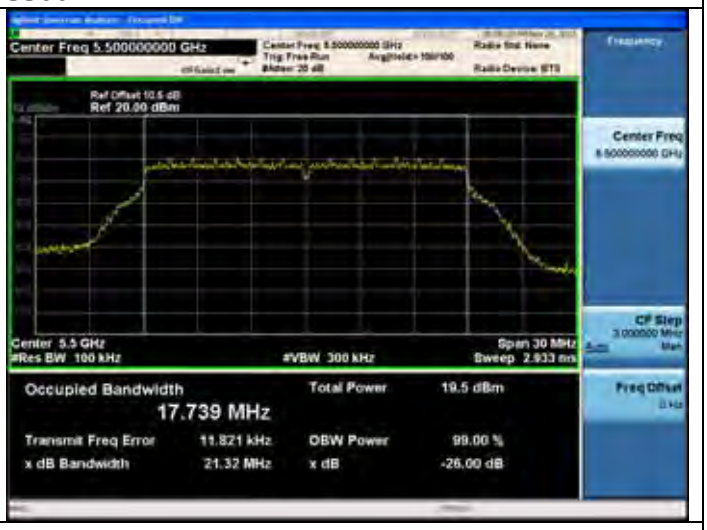
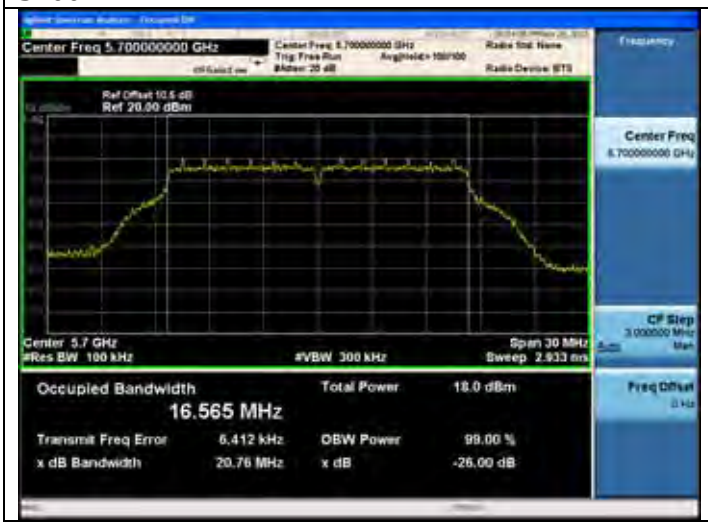
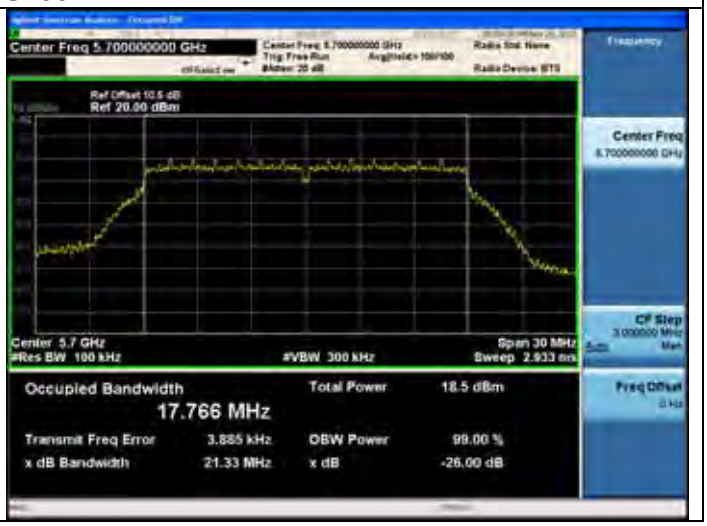
5510MHz

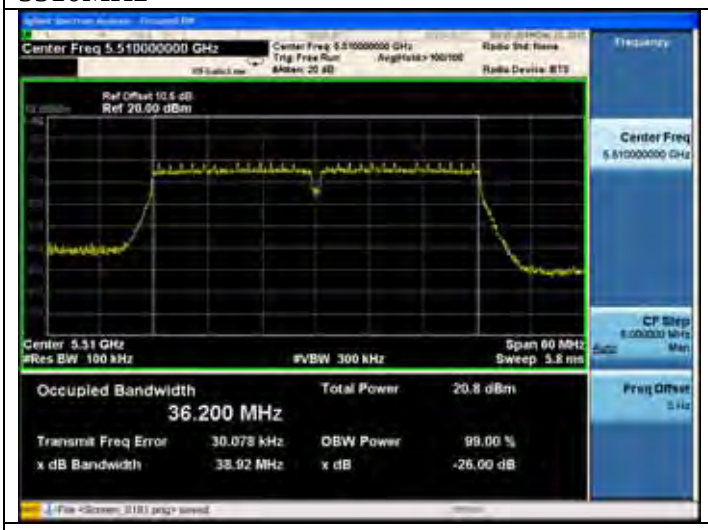
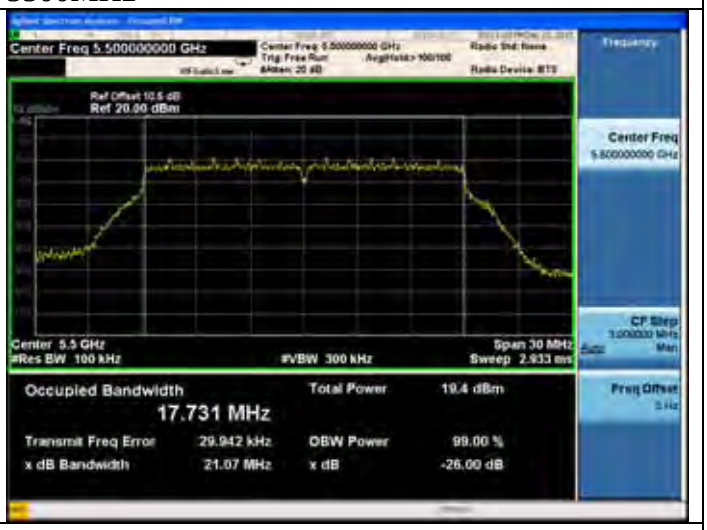
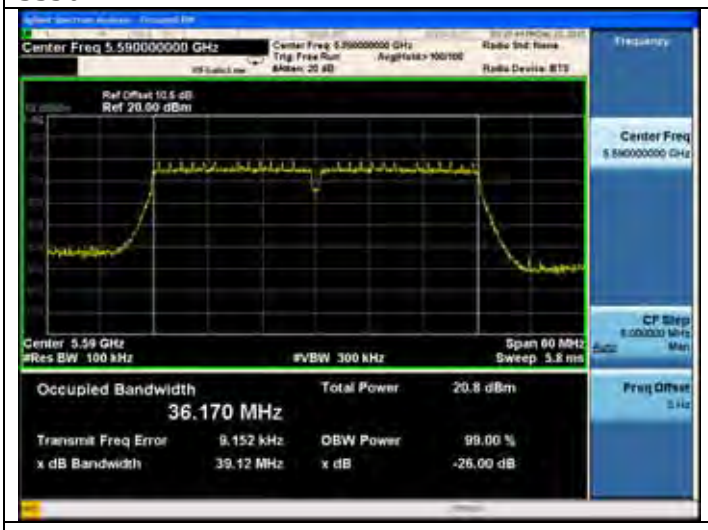
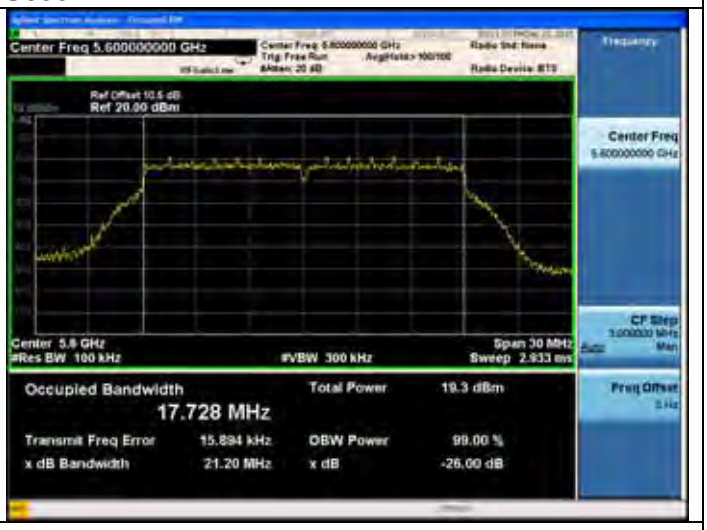
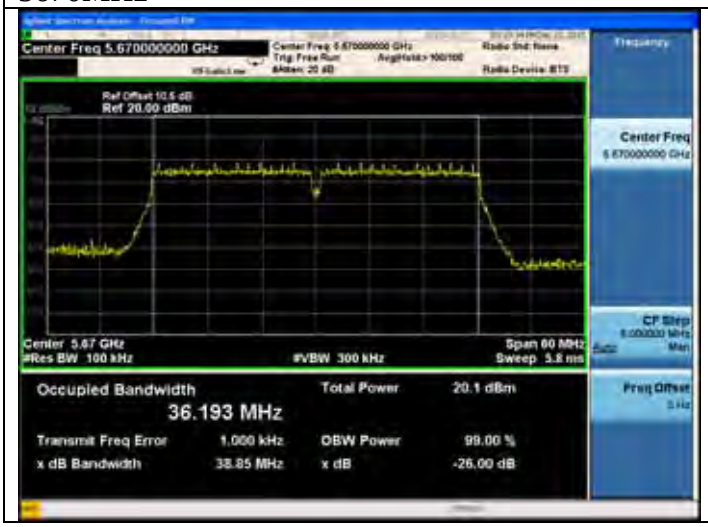
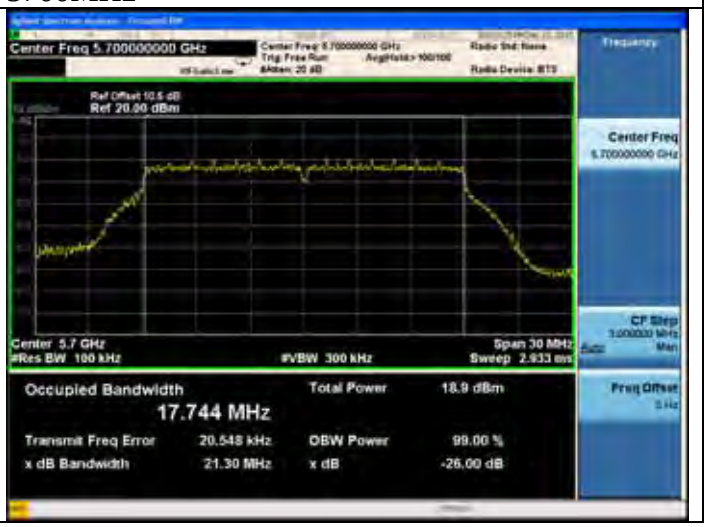

5670MHz


**11ac VHT80**

5590MHz

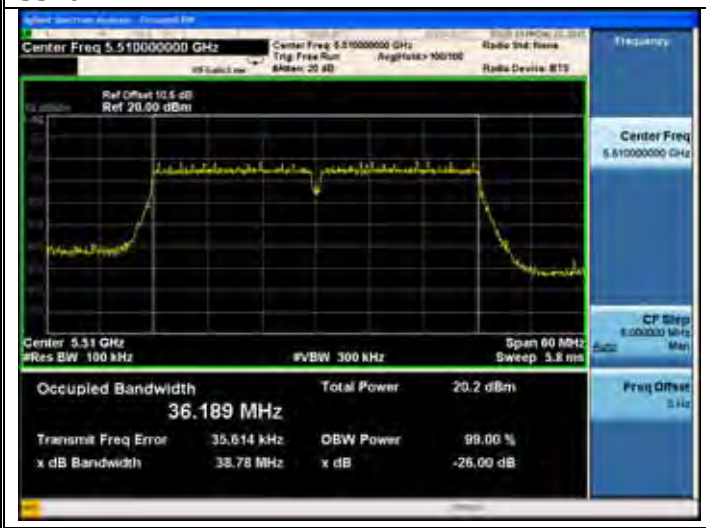

5530MHz

| **5500-5700MHz Band:** | |
|---|---|
| **26dB bandwidth** | |
| **ANT 1** | |
| **11a** | **11n HT20** |
| 5500MHz | 5500MHz |
|  |  |
| 5600MHz | 5600MHz |
|  |  |
| 5700MHz | 5700MHz |
|  |  |

| 11n HT40 | 11ac VHT20 |
|---|---|
| 5510MHz | 5500MHz |
|  |  |
| 5590MHz | 5600MHz |
|  |  |
| 5670MHz | 5700MHz |
|  |  |

**11ac VHT40**

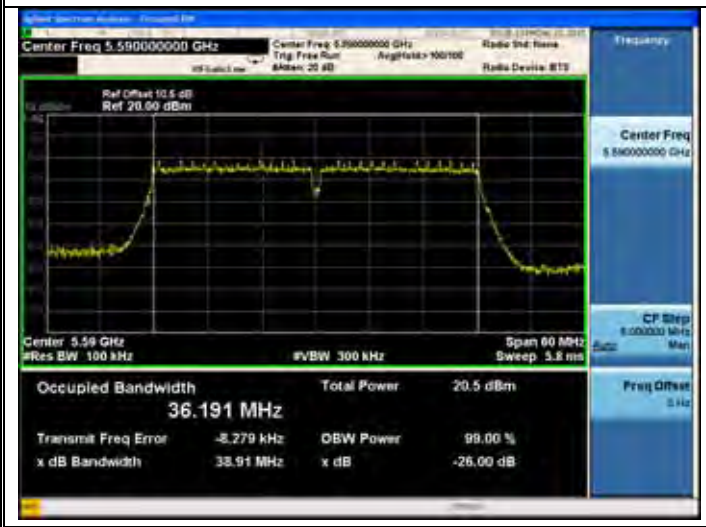
5510MHz



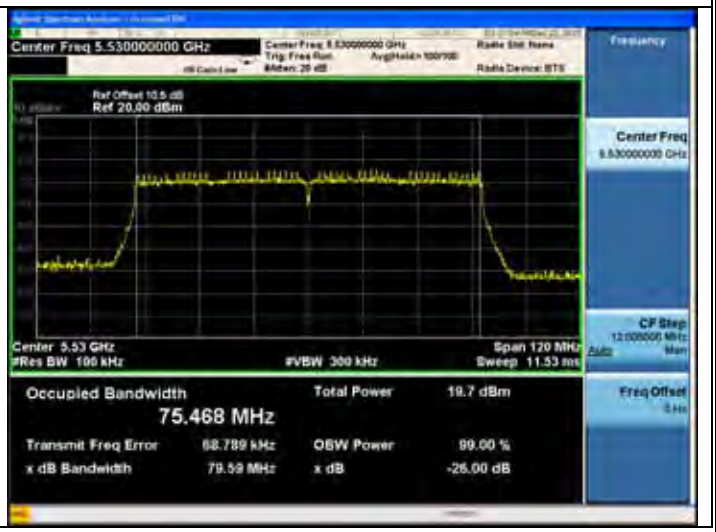

5670MHz

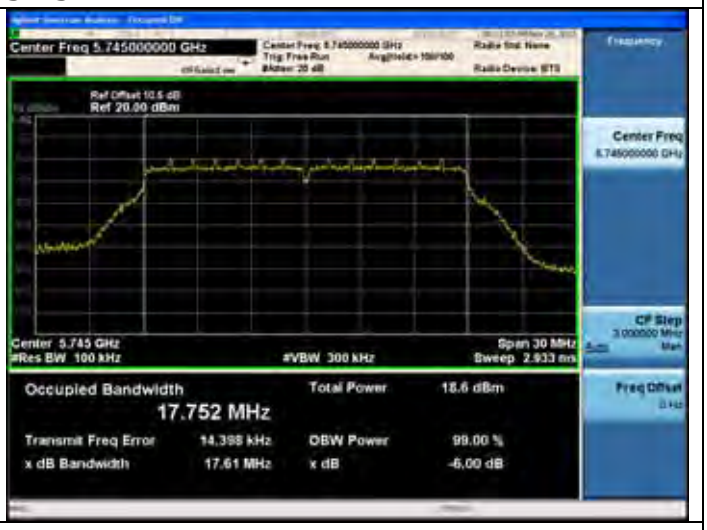
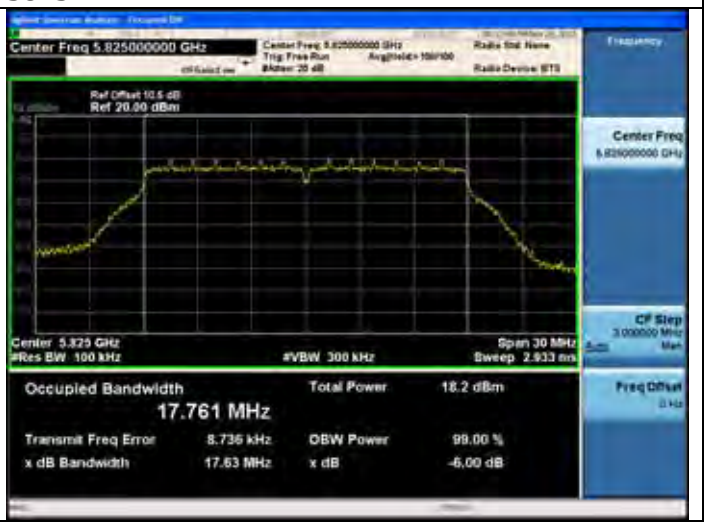

**11ac VHT80**

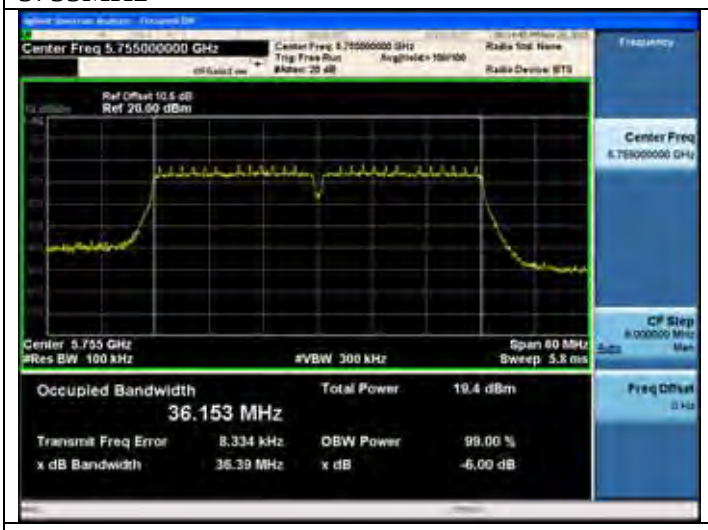
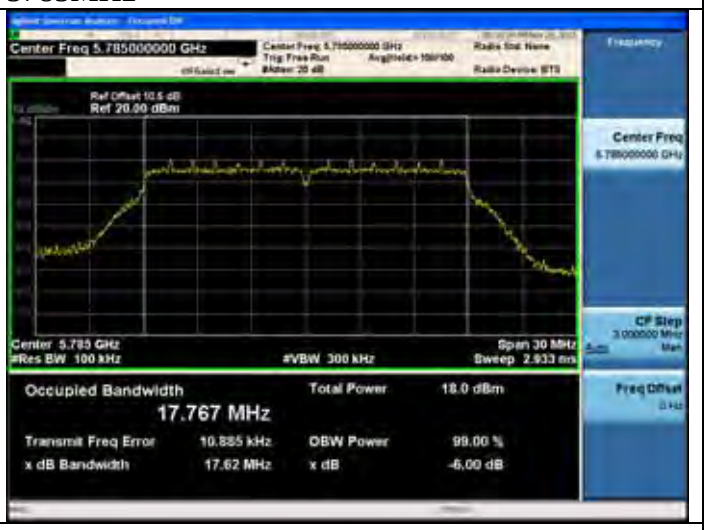
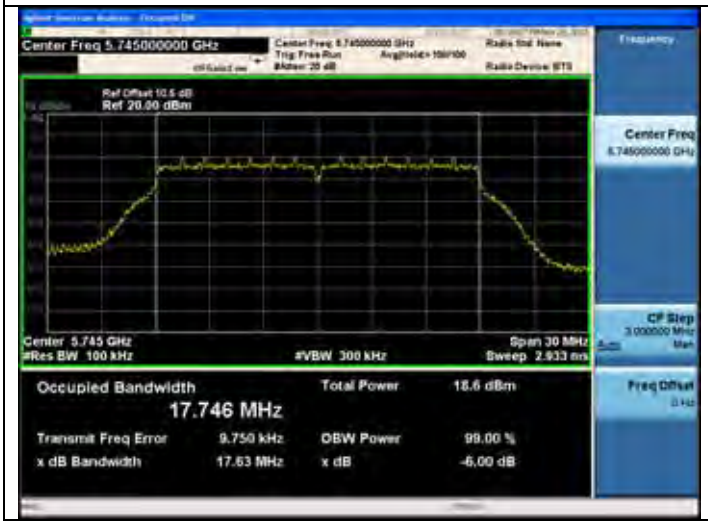
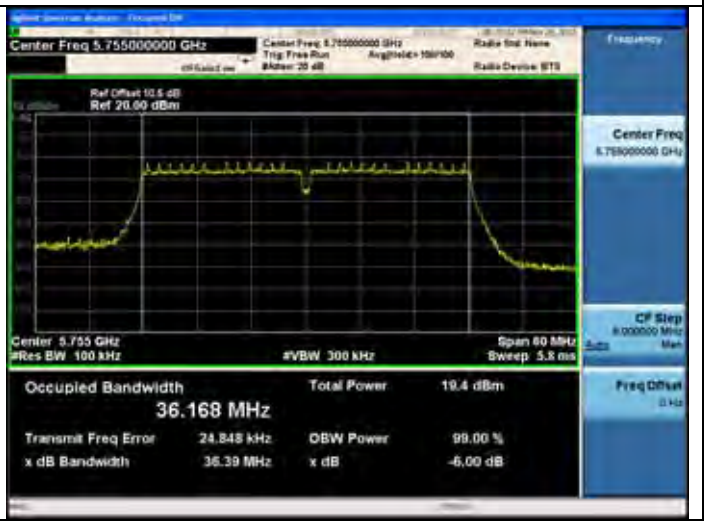
5590MHz

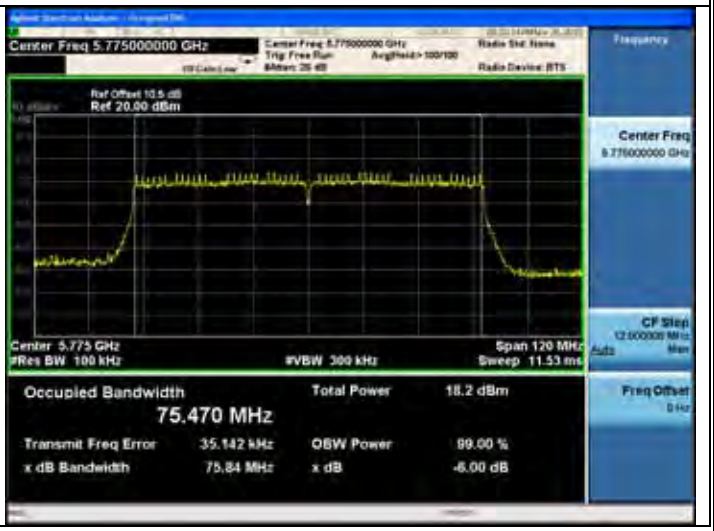


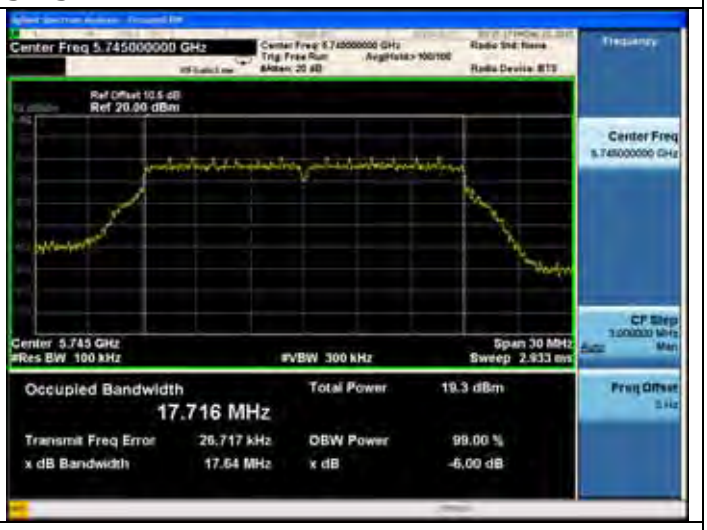
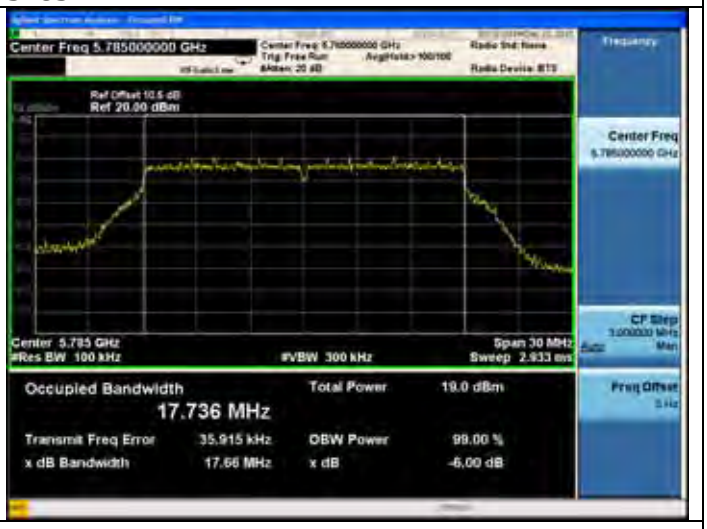
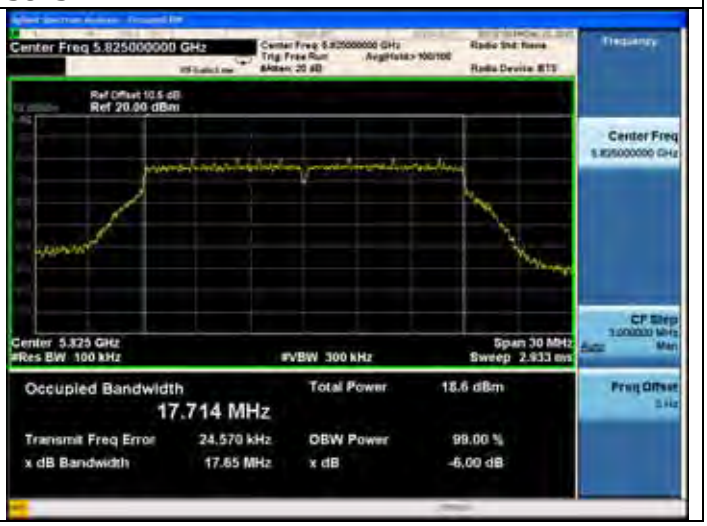

5530MHz

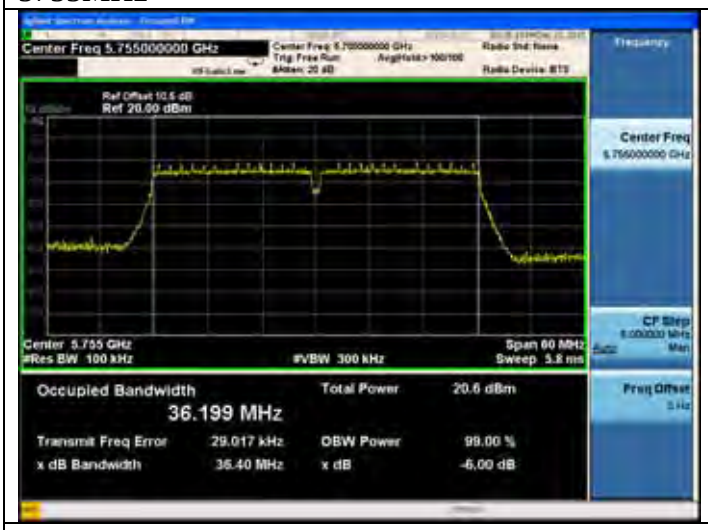
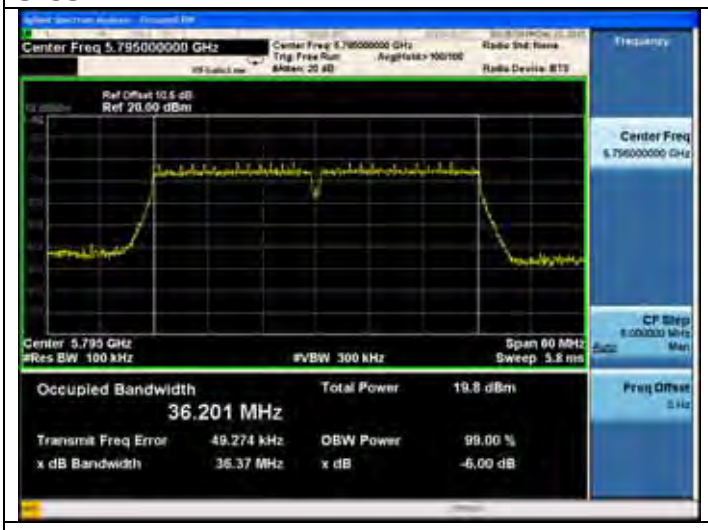
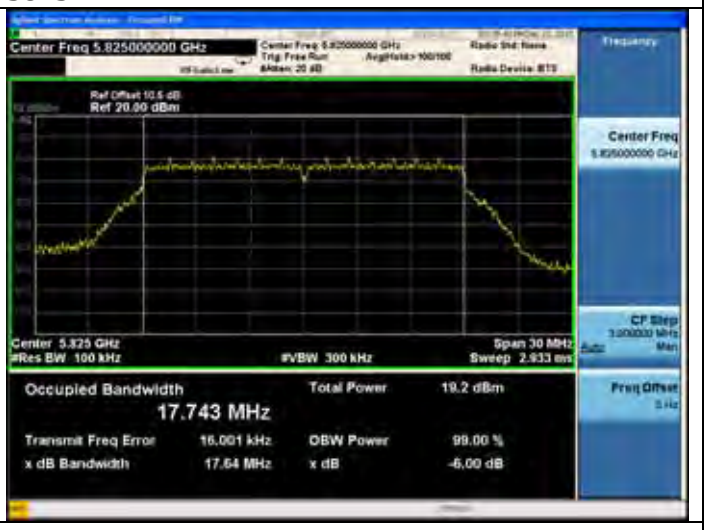
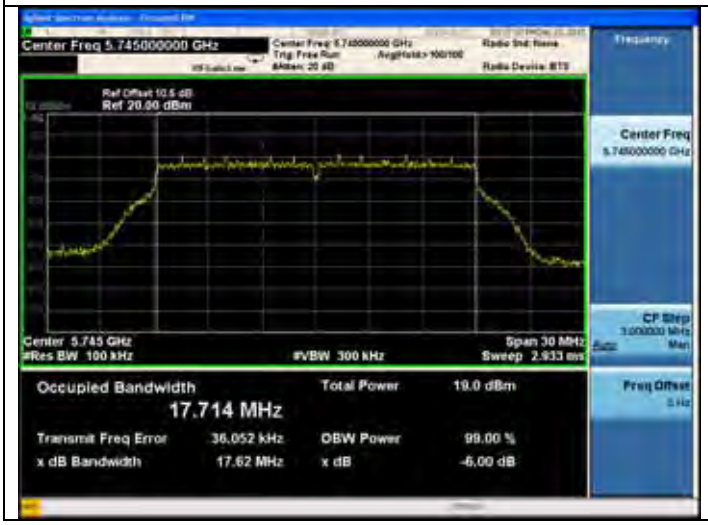
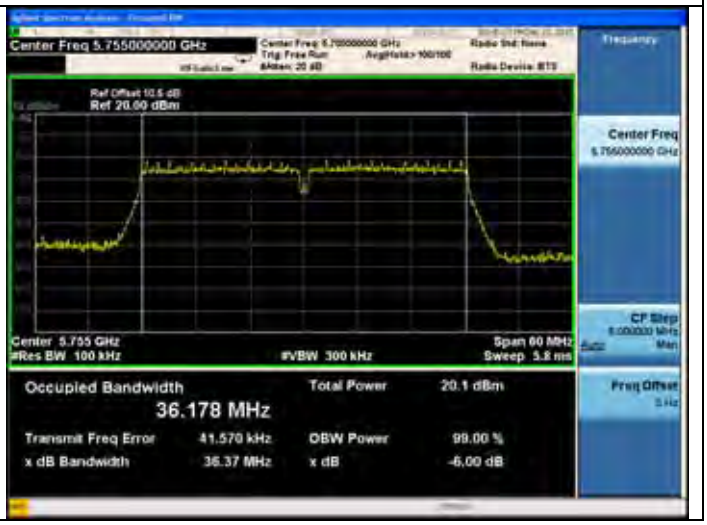


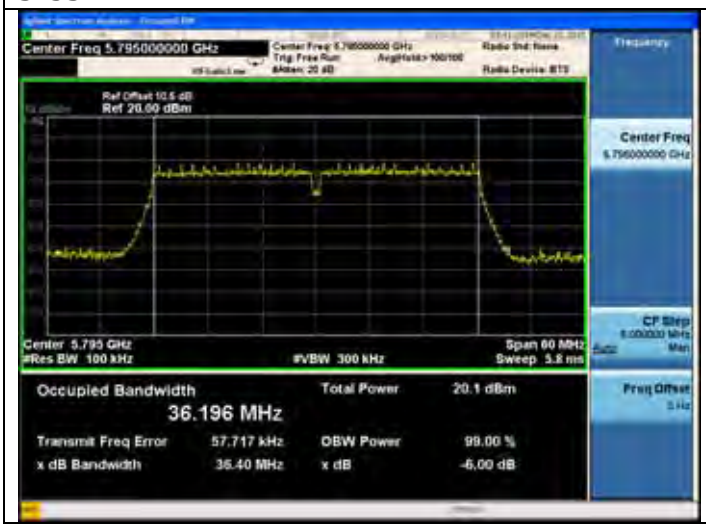
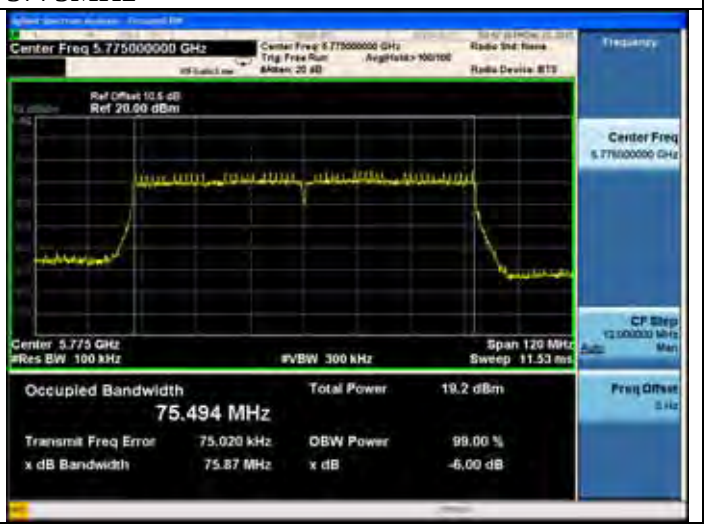
| **5745-5825MHz Band:** | |
|---|---|
| **6dB bandwidth** | |
| **ANT 0** | |
| **11a** | **11n HT20** |
| 5745MHz | 5745MHz |
|  |  |
| 5785MHz | 5785MHz |
|  |  |
| 5825MHz | 5825MHz |
|  |  |

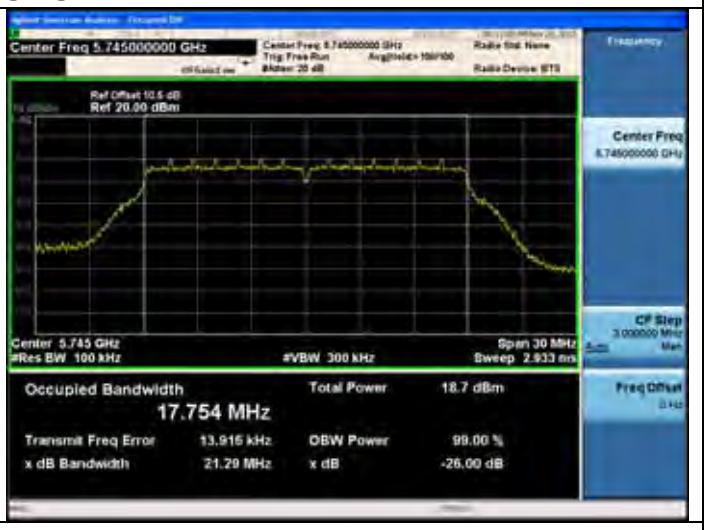
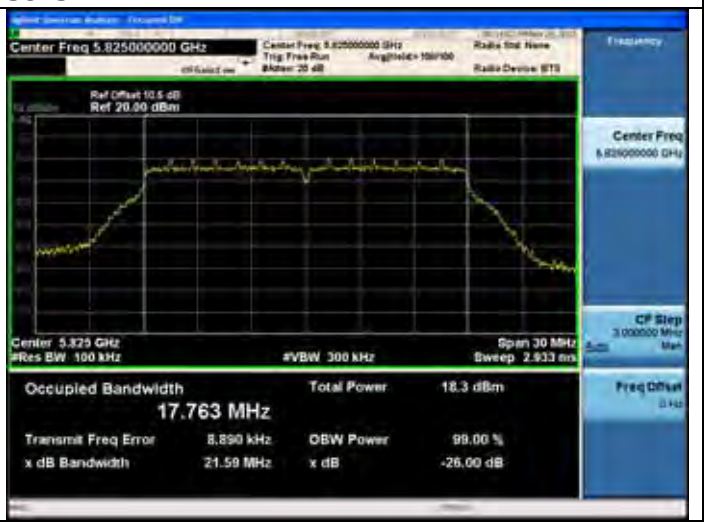
| **11n HT40** | |
|---|---|
| 5755MHz | 5785MHz |
|  |  |
| 5795MHz | 5825MHz |
|  |  |
| **11ac VHT20** | **11ac VHT40** |
| 5745MHz | 5755MHz |
|  |  |

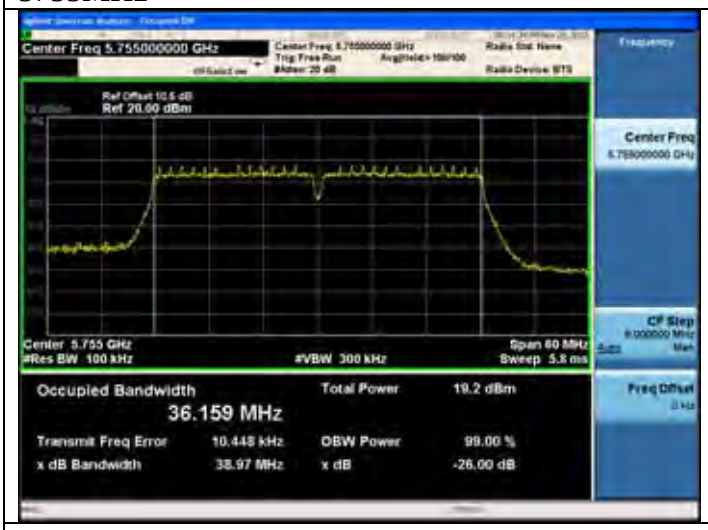
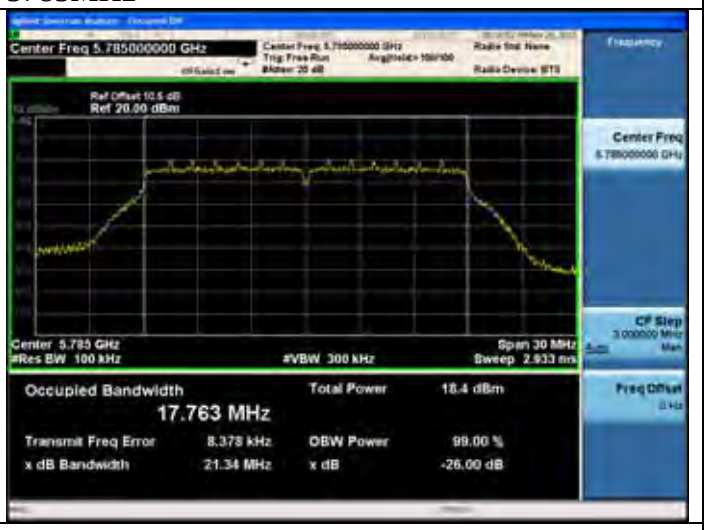
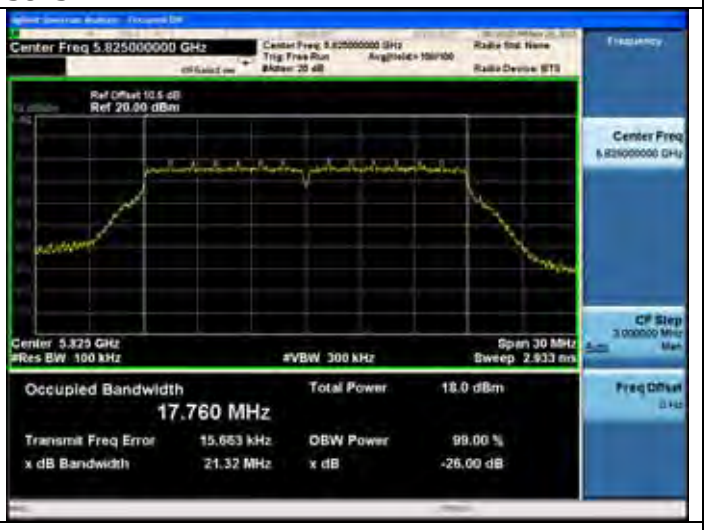
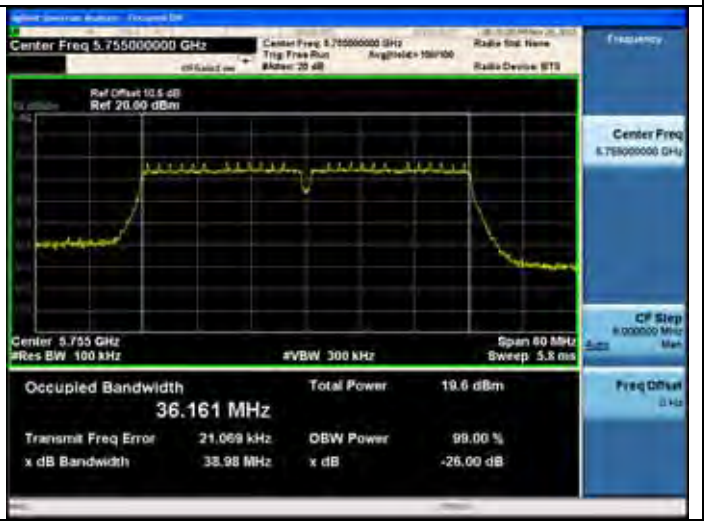
| | |
|---|---|
| | **11ac VHT80** |
| 5795MHz | 5775MHz |
|  |  |

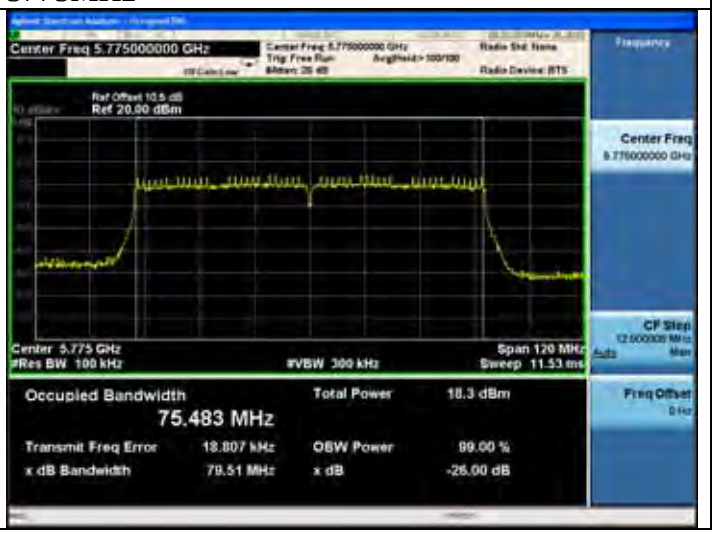
| **5745-5825MHz Band:** | |
|---|---|
| **6dB bandwidth** | |
| **ANT 1** | |
| **11a** | **11n HT20** |
| 5745MHz | 5745MHz |
|  |  |
| 5785MHz | 5785MHz |
|  |  |
| 5825MHz | 5825MHz |
|  |  |

| **11n HT40** | |
|---|---|
| 5755MHz | 5785MHz |
|  |  |
| 5795MHz | 5825MHz |
|  |  |
| **11ac VHT20** | **11ac VHT40** |
| 5745MHz | 5755MHz |
|  |  |

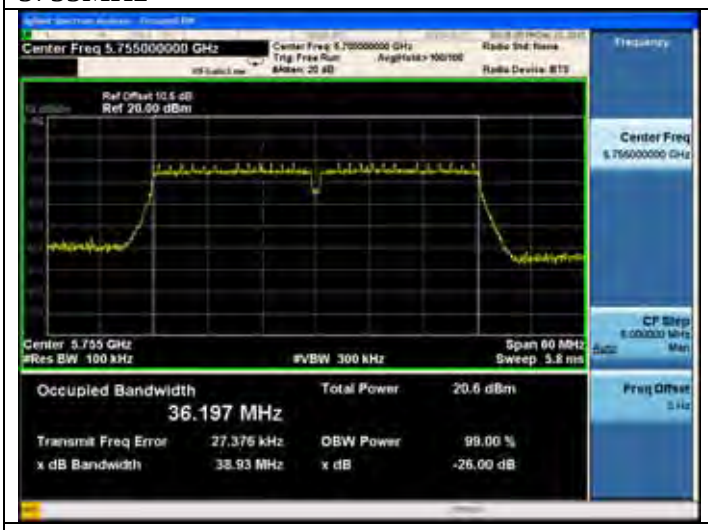
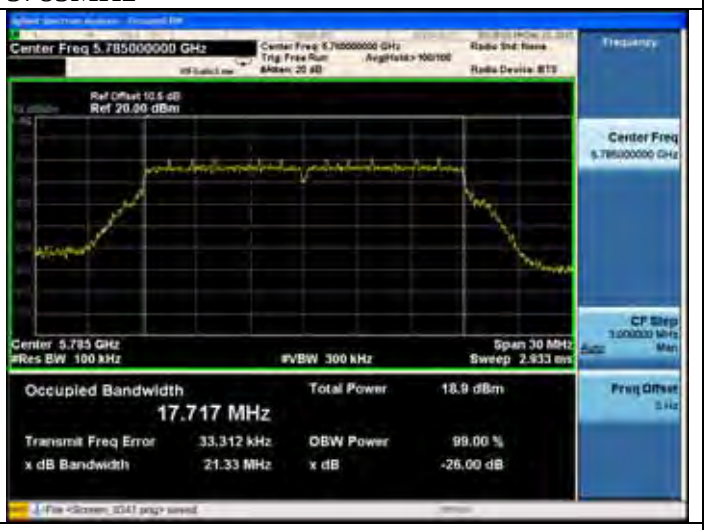
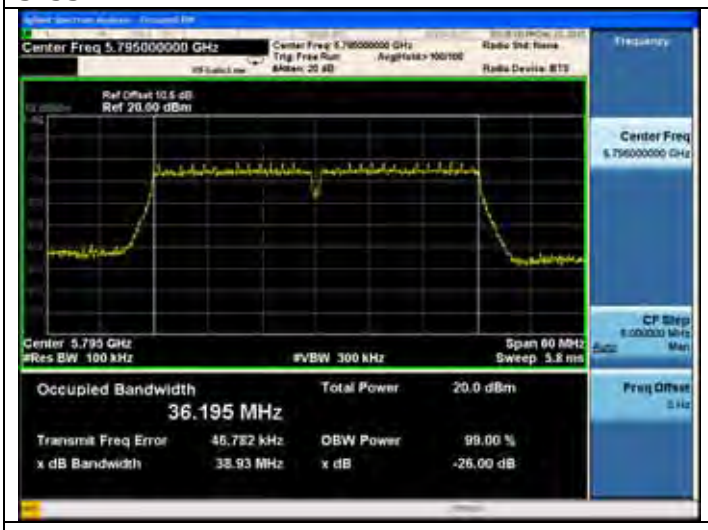
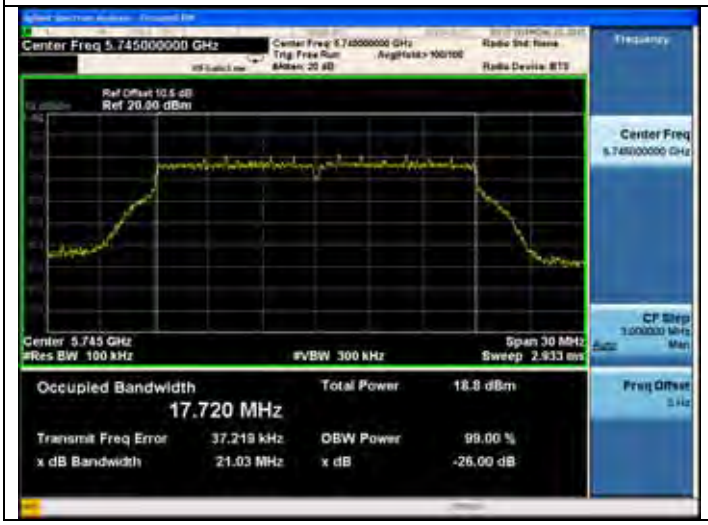
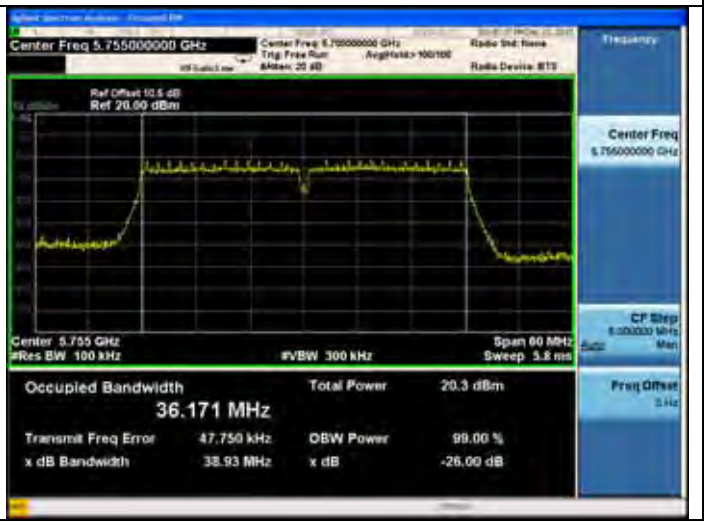
| | |
|---|---|
| | **11ac VHT80** |
| 5795MHz | 5775MHz |
|  |  |

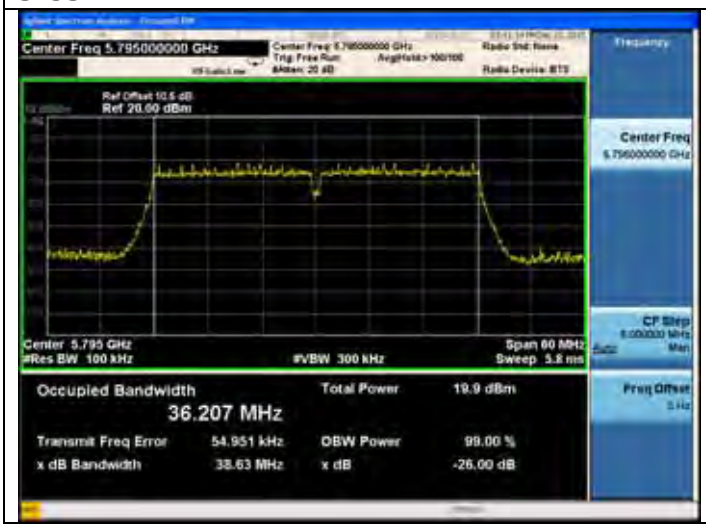
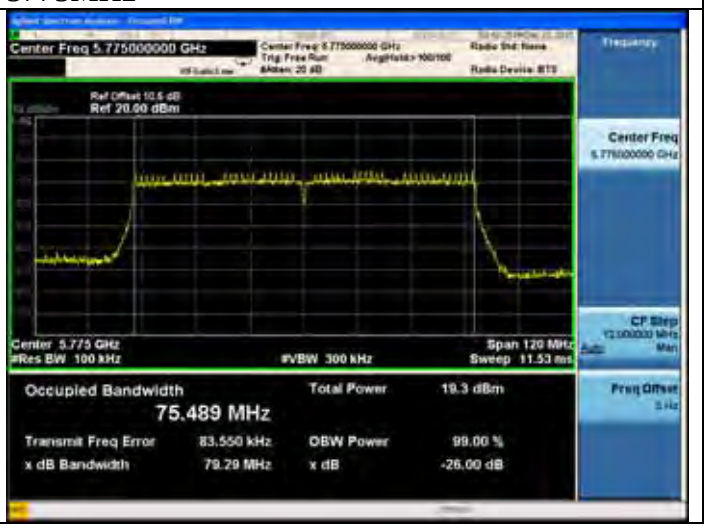
| 5745-5825MHz Band: | |
|---|---|
| 26dB bandwidth | |
| ANT 0 | |
| 11a | 11n HT20 |
| 5745MHz | 5745MHz |
|  |  |
| 5785MHz | 5785MHz |
|  |  |
| 5825MHz | 5825MHz |
|  |  |

| **11n HT40** | |
|---|---|
| 5755MHz | 5785MHz |
|  |  |
| 5795MHz | 5825MHz |
|  |  |
| **11ac VHT20** | **11ac VHT40** |
| 5745MHz | 5755MHz |
|  |  |

| | |
|---|---|
| | **11ac VHT80** |
| 5795MHz | 5775MHz |
|  |  |

| 5745-5825MHz Band: | |
|---|---|
| 26dB bandwidth | |
| ANT 1 | |
| 11a | 11n HT20 |
| 5745MHz | 5745MHz |
|  |  |
| 5785MHz | 5785MHz |
|  |  |
| 5825MHz | 5825MHz |
|  |  |

| **11n HT40** | |
|---|---|
| 5755MHz | 5785MHz |
|  |  |
| 5795MHz | 5825MHz |
|  |  |
| **11ac VHT20** | **11ac VHT40** |
| 5745MHz | 5755MHz |
|  |  |

| | 11ac VHT80 |
|---|---|
| 5795MHz | 5775MHz |
|  |  |

# 7. OUTPUT POWER TEST

## 7.1.Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|---|---|---|---|---|---|---|
| 1. | Spectrum | Agilent | N9030A | MY51380221 | Oct.18,15 | 1Year |
| 2. | Power meter | Anritsu | ML2487A | 6K00002472 | Apr.28, 15 | 1Year |
| 3. | Power sensor | Anritsu | MA2491A | 0033005 | Apr.28, 15 | 1Year |
| 4. | Attenuator (20dB) | Agilent | 8491B | MY39262165 | Apr.28, 15 | 1 Year |
| 5. | RF Cable | Hubersuhner | SUCOFLEX102 | 28620/2 | Apr.28, 15 | 1 Year |

## 7.2.Limit

For the band 5.15–5.25 GHz.
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 max-imum antenna gain does not exceed 6 dBi.
For the 5.25–5.35 GHz and 5.47–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz.
For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

## 7.3.Test Procedure

1. Connected the EUT's antenna port to measure device by 26dB attenuator.
2. For IEEE 802.11a and IEEE802.11n HT20 and 802.11ac VHT20 mode, use a PK power meter which's bandwidth is 20MHz and above 26dB bandwidth of signal to measure out each test modes' PK output power.
3. For IEEE802.11n HT40 mode, because the signal's bandwidth is about 40MHz and above 20MHz bandwidth of power sensor ML2491A. So use the test method described in KBD789033 clause E Method SA-1
   1) Connect the antenna port to the spectrum analyzer and Set span of the spectrum to encompass the entire emission bandwidth (EBW) of the signal.
   2) Set the RBW=1MHz and VBW =3MHz
   3) Number of points in sweep ≥ 2 Span / RBW
   4) Detector = RMS
   5) Sweep time = auto couple
   6) Allow the sweep to "free run" and set the Trace average at least 100 traces in power averaging (i.e., RMS) mode.
   7) Compute power by integrating the spectrum across the 26 dB EBW of the signal using the instrument's band power measurement function with band limits set equal to the EBW band edges.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

## 7.4.Test Results

**5180-5240MHz Band:**

| EUT: Tablet PC | | |
|---|---|---|
| M/N: WT10PE-C | | |
| Test date: 2015-11-22 | Pressure:101.8±1.0 kpa | Humidity:53.3±3.0% |
| Tested by: Alice_Yang | Test site: RF site | Temperature:2.7±0.6 ℃ |

| Test Mode | Frequency（MHz） | Maximum Conducted output power（dBm） | | | Limit (dBm) |
|---|---|---|---|---|---|
| | | ANT1 | ANT2 | Total | |
| 11a | 5180 | 12.39 | 11.25 | N/A | 24 |
| | 5200 | 12.45 | 11.10 | N/A | 24 |
| | 5240 | 12.58 | 11.46 | N/A | 24 |
| 11n HT20 | 5180 | 12.31 | 11.10 | 14.76 | 24 |
| | 5200 | 12.16 | 10.95 | 14.61 | 24 |
| | 5240 | 12.38 | 11.60 | 15.02 | 24 |
| 11n HT40 | 5190 | 12.97 | 12.04 | 15.54 | 24 |
| | 5230 | 13.05 | 12.18 | 15.65 | 24 |
| 11ac VHT20 | 5180 | 11.98 | 11.67 | 14.84 | 24 |
| | 5200 | 11.95 | 11.67 | 14.82 | 24 |
| | 5240 | 12.14 | 11.82 | 14.99 | 24 |
| 11ac VHT40 | 5190 | 12.40 | 11.98 | 15.21 | 24 |
| | 5230 | 12.67 | 12.06 | 15.39 | 24 |
| 11ac VHT80 | 5210 | 10.57 | 10.02 | 13.31 | 24 |
| Conclusion: PASS | | | | | |

**5260-5320MHz Band:**

| EUT: Tablet PC | | |
|---|---|---|
| M/N: WT10PE-C | | |
| Test date: 2015-11-22 | Pressure: 101.8±1.0 kpa | Humidity:53.2±3.0% |
| Tested by: Alice_Yang | Test site: RF site | Temperature:22.9±0.6 ℃ |

| Test Mode | Frequency （MHz） | Maximum Conducted output power （dBm） | | | Limit (dBm) |
|---|---|---|---|---|---|
| | | ANT1 | ANT2 | Total | |
| 11a | 5260 | 12.17 | 11.24 | N/A | 24 |
| | 5300 | 12.05 | 11.35 | N/A | 24 |
| | 5320 | 12.20 | 11.39 | N/A | 24 |
| 11n HT20 | 5260 | 11.90 | 11.41 | 14.67 | 24 |
| | 5300 | 11.84 | 11.34 | 14.61 | 24 |
| | 5320 | 11.90 | 11.30 | 14.62 | 24 |
| 11n HT40 | 5270 | 12.48 | 11.84 | 15.18 | 24 |
| | 5310 | 12.71 | 12.05 | 15.40 | 24 |
| 11ac VHT20 | 5260 | 11.68 | 11.50 | 14.60 | 24 |
| | 5300 | 11.99 | 11.48 | 14.75 | 24 |
| | 5320 | 11.99 | 11.61 | 14.81 | 24 |
| 11ac VHT40 | 5270 | 12.22 | 11.77 | 15.01 | 24 |
| | 5310 | 12.32 | 11.92 | 15.14 | 24 |
| 11ac VHT80 | 5290 | 10.28 | 10.14 | 13.22 | 24 |
| Conclusion: PASS | | | | | |

**5500-5700MHz Band:**

| EUT: Tablet PC | | |
|---|---|---|
| M/N: WT10PE-C | | |
| Test date: 2015-11-22 | Pressure: 101.6±1.0 kpa | Humidity:53.4±3.0% |
| Tested by: Alice_Yang | Test site: RF site | Temperature:22.1±0.6 ℃ |

| Test Mode | Frequency (MHz) | Maximum Conducted output power (dBm) | | | Limit (dBm) |
|---|---|---|---|---|---|
| | | ANT1 | ANT2 | Total | |
| 11a | 5500 | 11.88 | 12.10 | N/A | 24 |
| | 5600 | 11.57 | 11.88 | N/A | 24 |
| | 5700 | 10.84 | 11.28 | N/A | 24 |
| 11n HT20 | 5500 | 10.59 | 12.01 | 14.82 | 24 |
| | 5600 | 11.31 | 11.88 | 14.61 | 24 |
| | 5700 | 10.49 | 11.05 | 14.62 | 24 |
| 11n HT40 | 5510 | 12.22 | 12.92 | 15.59 | 24 |
| | 5590 | 12.08 | 12.52 | 15.32 | 24 |
| | 5670 | 11.37 | 11.85 | 14.63 | 24 |
| 11ac VHT20 | 5500 | 11.97 | 12.28 | 15.14 | 24 |
| | 5600 | 11.51 | 12.05 | 14.80 | 24 |
| | 5700 | 10.95 | 11.45 | 14.22 | 24 |
| 11ac VHT40 | 5510 | 12.30 | 12.57 | 15.45 | 24 |
| | 5590 | 12.11 | 12.37 | 15.25 | 24 |
| | 5670 | 11.45 | 11.72 | 14.60 | 24 |
| 11ac VHT80 | 5530 | 10.37 | 10.81 | 13.61 | 24 |
| Conclusion: PASS | | | | | |

**5745-5825MHz Band:**

| EUT: Tablet PC | | | | | |
|---|---|---|---|---|---|
| M/N: WT10PE-C | | | | | |
| Test date: 2015-11-22 | | Pressure: 101.6±1.0kpa | | Humidity:532.8±3.0% | |
| Tested by: Alice_Yang | | Test site: RF site | | Temperature:22.7±0.6 ℃ | |
| | | | | | |
| Test Mode | Frequency （MHz） | Maximum Conducted output power （dBm） | | | Limit (dBm) |
| | | ANT1 | ANT2 | Total | |
| 11a | 5745 | 11.27 | 12.12 | N/A | 29.86 |
| | 5785 | 11.03 | 11.82 | N/A | 29.86 |
| | 5825 | 10.6 | 11.61 | N/A | 29.86 |
| 11n HT20 | 5745 | 11.02 | 11.77 | 14.42 | 29.86 |
| | 5785 | 10.47 | 11.66 | 14.12 | 29.86 |
| | 5825 | 10.44 | 11.38 | 13.95 | 29.86 |
| 11n HT40 | 5755 | 11.62 | 12.47 | 15.08 | 29.86 |
| | 5790 | 11.08 | 12.22 | 14.70 | 29.86 |
| 11ac VHT20 | 5745 | 11.32 | 11.96 | 14.66 | 29.86 |
| | 5785 | 11.26 | 11.76 | 14.53 | 29.86 |
| | 5825 | 10.81 | 11.54 | 14.20 | 29.86 |
| 11ac VHT40 | 5755 | 11.71 | 12.33 | 15.04 | 29.86 |
| | 5795 | 11.73 | 12.08 | 14.92 | 29.86 |
| 11ac VHT80 | 5775 | 9.89 | 10.31 | 13.12 | 29.86 |
| Conclusion: PASS | | | | | |

Note: 11ac/n Mode

Directional Gain= $10\log[(10^{2.84/20}+10^{3.41/20})^2/2]$dBi

=6.14dBi>6dBi

**5180-5240MHz Band:**

**ANT 0**

**11n HT40**

5190MHz


5230MHz


**11ac VHT80**

5230MHz


5210MHz


**11acVHT40**

5190MHz

| | |
|---|---|
| **5180-5240MHz Band:** | |
| **ANT 1** | |
| **11n HT40** | |
| 5190MHz | 5230MHz |
|  |  |
| | **11ac VHT80** |
| 5230MHz | 5210MHz |
|  |  |
| **11acVHT40** | |
| 5190MHz | |
|  | |

**5260-5320MHz Band:**

**ANT 0**

**11n HT40**

5270MHz


5310MHz


**11ac VHT80**

5310MHz


5290MHz


**11acVHT40**

5270MHz

| | |
|---|---|
| **5260-5320MHz Band:** | |
| **ANT 1** | |
| **11n HT40** | |
| 5270MHz | 5310MHz |
|  |  |
| | **11ac VHT80** |
| 5310MHz | 5290MHz |
|  |  |
| **11acVHT40** | |
| 5270MHz | |
|  | |

| **5500-5700MHz Band:** | |
|---|---|
| **ANT 0** | |
| **11n HT40** | **11acVHT40** |
| 5510MHz | 5510MHz |
|  |  |
| 5590MHz | 5590MHz |
|  |  |
| 5670MHz | 5670MHz |
|  |  |

| **11ac VHT80** | |
|---|---|
| 5530MHz | 5670MHz |
|  |  |
| **ANT 1** | |
| **11n HT40** | **11acVHT40** |
| 5510MHz | 5510MHz |
|  |  |
| 5590MHz | 5590MHz |
|  |  |

| | 11ac VHT80 |
|---|---|
| 5670MHz | 5530MHz |
|  |  |

**5745-5825MHz Band:**

**ANT 0**

**11n HT40**

5755MHz


5795MHz


**11ac VHT80**

5795MHz


5775MHz


**11acVHT40**

5755MHz

**5745-5825MHz Band:**

**ANT 1**

**11n HT40**

5755MHz


5795MHz


**11ac VHT80**

5795MHz


5775MHz


**11acVHT40**

5755MHz

# 8. SPECTRAL DENSITY TEST

## 8.1.Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|---|---|---|---|---|---|---|
| 1. | Spectrum | Agilent | N9030A | MY51380221 | Oct.18,15 | 1Year |
| 2. | Attenuator (20dB) | Agilent | 8491B | MY39262165 | Apr.28, 15 | 1 Year |
| 3 | RF Cable | Hubersuhner | SUCOFLEX102 | 28610/2 | Apr.28, 15 | 1 Year |

## 8.2.Limit

**Band 5150-5250 MHz:**
The e.i.r.p spectral density shall not exceed 11 dBm in any 1.0 MHz band.
**Band 5250-5350 MHz:**
The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.
**Band 5470-5725 MHz:**
The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.
**Band 5725-5850 MHz:**
The power spectral density shall not exceed 30 dBm in any 500 KHz band.

## 8.3.Test Procedure

For the Band 5.15-5.25GHz:
The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 1MHz RBW and 3MHz VBW; Detector: RMS mode.

For the band 5.725-5.85 GHz:
The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 1MHz RBW and 3MHz VBW,RMS Detector.
So use the test method described in KDB789033 clause E

1) Set the RBW=100kHz and VBW =3MHz
2) Number of points in sweep ≥ 2 Span / RBW.(This ensures that bin-to-bin spacing is ≤ RBW/2, so that narrowband signals are not lost between frequency bins.)
3) Sweep time = auto
4) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
5) Use the “peak search” function of spectrum analyzer find the max value, then add 10log (500kHz/RBW) to the measured result.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

## 8.4.Test Results

**5180-5240MHz Band:**

| | | |
|---|---|---|
| EUT: Tablet PC | | |
| M/N: WT10PE-C | | |
| Test date: 2015-11-26 | Pressure: 101.8±1.0kpa | Humidity:52.7±3.0% |
| Tested by: Alice_Yang | Test site: RF site | Temperature:22.8±0.6 ℃ |

| Test Mode | Frequency （MHz） | Power density (dBm/MHz) | | | Limit (dBm/MHz) |
|---|---|---|---|---|---|
| | | ANT0 | ANT1 | Total | |
| 11a | 5180 | 0.897 | 0.318 | N/A | 11 |
| | 5200 | 0.618 | 0.093 | N/A | 11 |
| | 5240 | 0.828 | 0.255 | N/A | 11 |
| 11n HT20 | 5180 | 0.328 | -0.184 | 3.09 | 11 |
| | 5200 | 0.268 | -0.158 | 3.071 | 11 |
| | 5240 | 0.346 | -0.050 | 3.163 | 11 |
| 11n HT40 | 5190 | -1.930 | -2.753 | 0.688 | 11 |
| | 5230 | -1.916 | -2.508 | 0.808 | 11 |
| 11ac VHT20 | 5180 | 0.274 | -0.094 | 3.104 | 11 |
| | 5200 | 0.152 | -0.272 | 2.955 | 11 |
| | 5240 | 0.385 | -0.161 | 3.131 | 11 |
| 11ac VHT40 | 5190 | -2.146 | -2.689 | 0.601 | 11 |
| | 5230 | -1.783 | -2.524 | 0.873 | 11 |
| 11ac VHT80 | 5210 | -6.627 | -7.433 | -4.001 | 11 |
| Conclusion: PASS | | | | | |

**5260-5320MHz Band:**

| | | |
|---|---|---|
| EUT: Tablet PC | | |
| M/N: WT10PE-C | | |
| Test date: 2015-11-26 | Pressure: 101.8±1.0 kpa | Humidity:52.7±3.0% |
| Tested by: Alice_Yang | Test site: RF site | Temperature:22.8±0.6 ℃ |

| Test Mode | Frequency （MHz） | Power density (dBm/MHz) | | | Limit (dBm/MHz) |
|---|---|---|---|---|---|
| | | ANT1 | ANT2 | Total | |
| 11a | 5260 | 0.218 | -0.324 | N/A | 11 |
| | 5300 | 0.335 | -0.270 | N/A | 11 |
| | 5320 | 0.519 | -0.037 | N/A | 11 |
| 11n HT20 | 5260 | -0.147 | -0.486 | 2.697 | 11 |
| | 5300 | 0.089 | -0.517 | 2.807 | 11 |
| | 5320 | 0.142 | -0.245 | 2.963 | 11 |
| 11n HT40 | 5270 | -2.290 | -2.486 | 0.623 | 11 |
| | 5310 | -2.223 | -2.807 | 0.505 | 11 |
| 11ac VHT20 | 5260 | -0.227 | -0.332 | 2.731 | 11 |
| | 5300 | -0.099 | -0.280 | 2.822 | 11 |
| | 5320 | 0.013 | -0.131 | 2.952 | 11 |
| 11ac VHT40 | 5270 | -2.489 | -2.592 | 0.47 | 11 |
| | 5310 | -2.307 | -2.740 | 0.492 | 11 |
| 11ac VHT80 | 5290 | -6.992 | -7.211 | -4.09 | 11 |
| Conclusion: PASS | | | | | |

**5500-5700MHz Band:**

| | | |
|---|---|---|
| EUT: Tablet PC | | |
| M/N: WT10PE-C | | |
| Test date: 2015-11-26 | Pressure: 101.6±1.0 kpa | Humidity:52.7±3.0% |
| Tested by: Alice_Yang | Test site: RF site | Temperature:22.8±0.6 ℃ |

| Test Mode | Frequency （MHz） | Power density (dBm/MHz) | | | Limit (dBm/MHz) |
|---|---|---|---|---|---|
| | | ANT0 | ANT1 | Total | |
| 11a | 5500 | 0.379 | 0.618 | N/A | 11 |
| | 5600 | 0.036 | 0.417 | N/A | 11 |
| | 5700 | -0.221 | -0.253 | N/A | 11 |
| 11n HT20 | 5500 | -0.058 | 0.280 | 3.125 | 11 |
| | 5600 | -0.095 | 0.195 | 3.063 | 11 |
| | 5700 | -0.776 | -0.474 | 2.388 | 11 |
| 11n HT40 | 5510 | -2.558 | -2.012 | 0.734 | 11 |
| | 5590 | -2.640 | -2.031 | 0.685 | 11 |
| | 5670 | -3.123 | -2.825 | 0.039 | 11 |
| 11ac VHT20 | 5500 | -0.155 | 0.336 | 3.108 | 11 |
| | 5600 | -0.295 | 0.144 | 2.94 | 11 |
| | 5700 | -0.820 | -0.465 | 2.371 | 11 |
| 11ac VHT40 | 5510 | -2.629 | -2.051 | 0.68 | 11 |
| | 5590 | -2.589 | -2.133 | 0.655 | 11 |
| | 5670 | -2.971 | -2.999 | 0.025 | 11 |
| 11ac VHT80 | 5530 | -6.903 | -6.575 | -3.726 | 11 |
| Conclusion: PASS | | | | | |

**5745-5825MHz Band:**

| | | |
|---|---|---|
| EUT: Tablet PC | | |
| M/N: WT10PE-C | | |
| Test date: 2015-11-26 | Pressure: 101.5±1.0kpa | Humidity:52.7±3.0% |
| Tested by: Alice_Yang | Test site: RF site | Temperature:22.8±0.6 ℃ |

| Test Mode | Frequency (MHz) | Power density (dBm/500KHz) | | | Limit (dBm/500KHz) |
|---|---|---|---|---|---|
| | | ANT1 | ANT2 | Total | |
| 11a | 5745 | -1.766 | -1.185 | N/A | 29.86 |
| | 5785 | -1.772 | -1.185 | N/A | 29.86 |
| | 5825 | -2.214 | -1.368 | N/A | 29.86 |
| 11n HT20 | 5745 | -2.296 | -1.504 | 1.13 | 29.86 |
| | 5785 | -2.508 | -2.007 | 0.76 | 29.86 |
| | 5825 | -2.576 | -1.893 | 0.79 | 29.86 |
| 11n HT40 | 5755 | -4.259 | -3.917 | -1.07 | 29.86 |
| | 5790 | -5.104 | -4.228 | -1.63 | 29.86 |
| 11ac VHT20 | 5745 | -2.228 | -1.304 | 1.27 | 29.86 |
| | 5785 | -2.449 | -1.886 | 0.85 | 29.86 |
| | 5825 | -2.40 | -2.247 | 0.69 | 29.86 |
| 11ac VHT40 | 5755 | -4.546 | -3.965 | -1.24 | 29.86 |
| | 5790 | -4.635 | -4.396 | -1.50 | 29.86 |
| 11ac VHT80 | 5775 | -9.285 | -9.047 | -6.15 | 29.86 |
| Conclusion: PASS | | | | | |

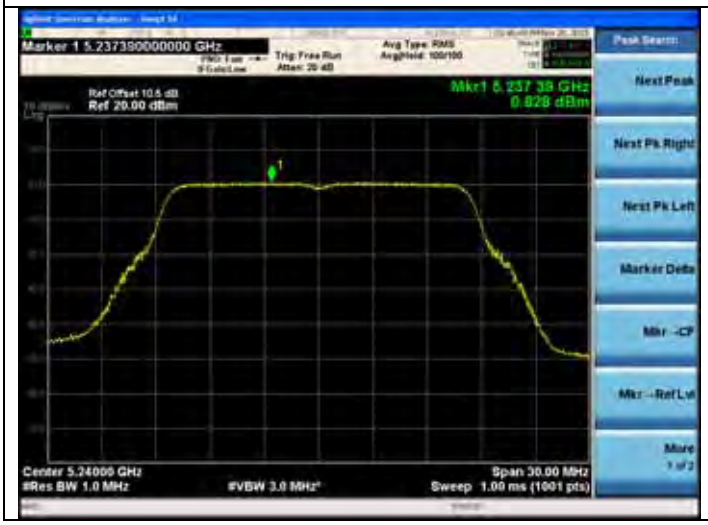
Note: 11ac/n Mode

Directional Gain= $10\log[(10^{2.84/20}+10^{3.41/20})^2/2]$dBi

= 6.14dBi>6dBi

Note 2:

1. Correction factor =10log(500kHz/100kHz)=6.9897
2. Result=Reading value + Correction factor

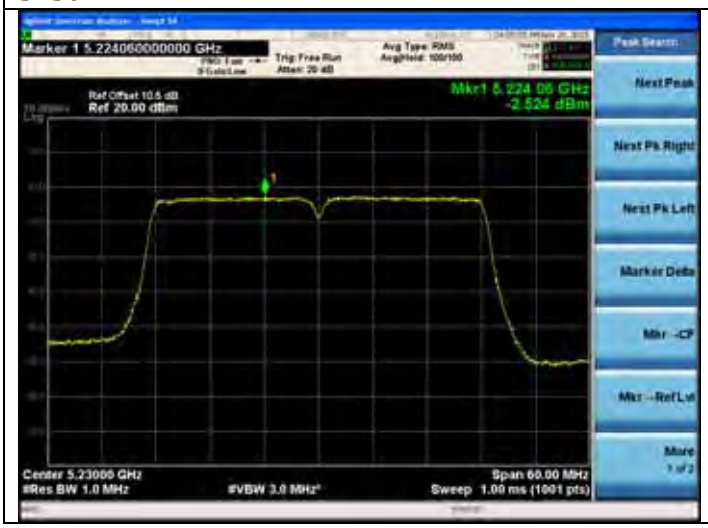
| **5180-5240MHz Band:** | |
|---|---|
| **ANT 0** | |
| **11a** | **11n HT20** |
| 5180MHz | 5180MHz |
|  |  |
| 5200MHz | 5200MHz |
|  |  |
| 5240MHz | 5240MHz |
|  |  |

| **11n HT40** | |
|---|---|
| 5190MHz | 5200MHz |
|  |  |
| 5230MHz | 5240MHz |
|  |  |
| **11ac VHT20** | **11ac VHT40** |
| 5180MHz | 5190MHz |
|  |  |

| | |
|---|---|
| | **11ac VHT80** |
| 5230MHz | 5210MHz |
|  |  |

| **5180-5240MHz Band:** | |
|---|---|
| **ANT 1** | |
| **11a** | **11n HT20** |
| 5180MHz | 5180MHz |
|  |  |
| 5200MHz | 5200MHz |
|  |  |
| 5240MHz | 5240MHz |
|  |  |

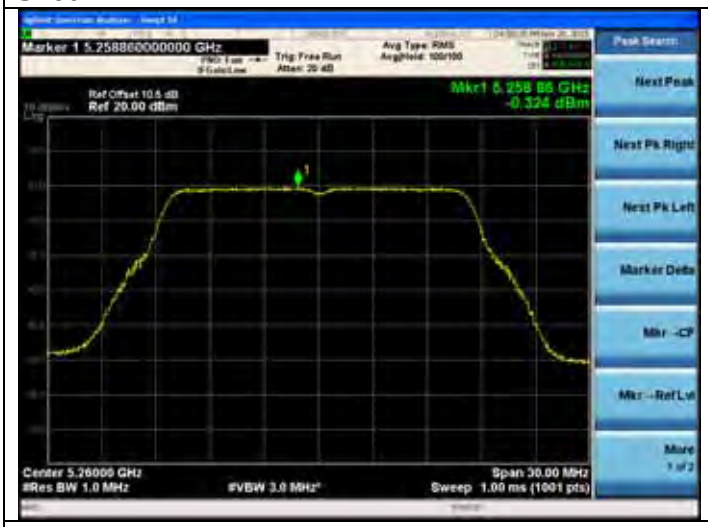
| **11n HT40** | |
|---|---|
| 5190MHz | 5200MHz |
|  |  |
| 5230MHz | 5240MHz |
|  |  |
| **11ac VHT20** | **11ac VHT40** |
| 5180MHz | 5190MHz |
|  |  |

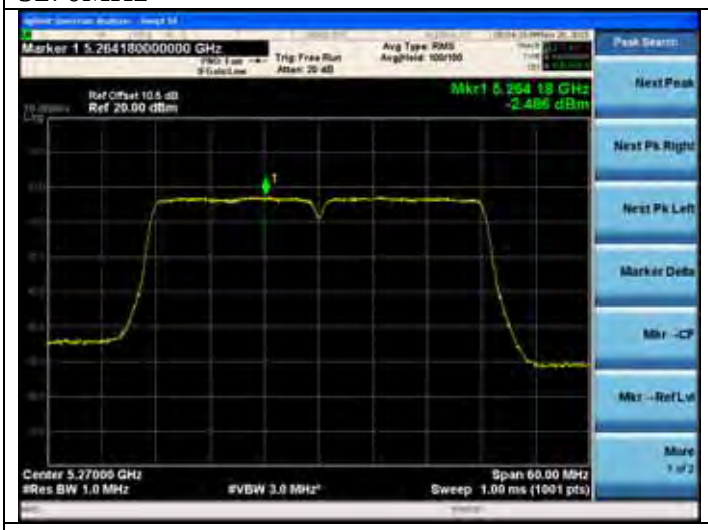
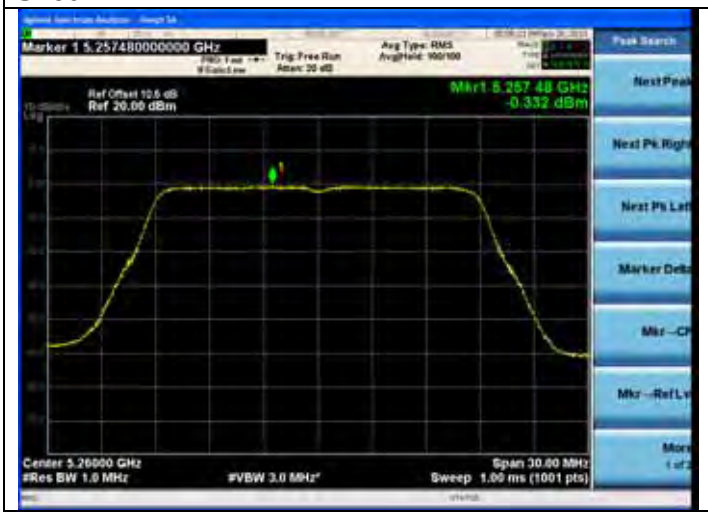
| | 11ac VHT80 |
|---|---|
| 5230MHz | 5210MHz |
|  |  |

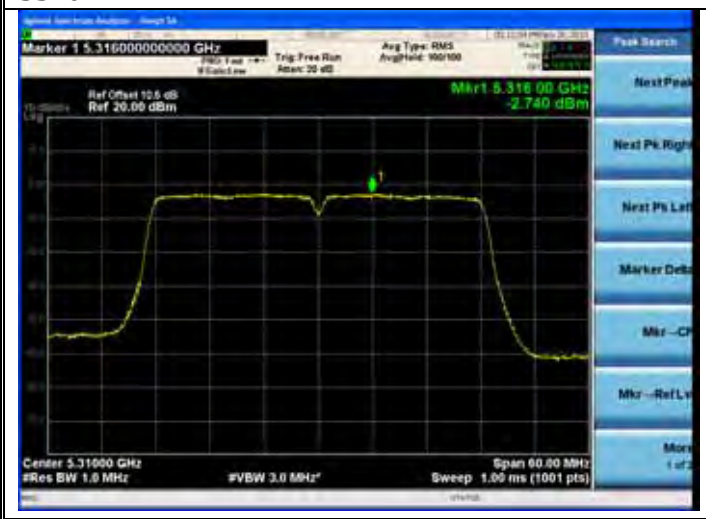
| 5260-5320MHz Band: | |
|---|---|
| ANT 0 | |
| **11a** | **11n HT20** |
| 5260MHz | 5260MHz |
|  |  |
| 5300MHz | 5300MHz |
|  |  |
| 5320MHz | 5320MHz |
|  |  |

| **11n HT40** | |
|---|---|
| 5270MHz | 5300MHz |
|  |  |
| 5310MHz | 5320MHz |
|  |  |
| **11ac VHT20** | **11ac VHT40** |
| 5260MHz | 5270MHz |
|  |  |

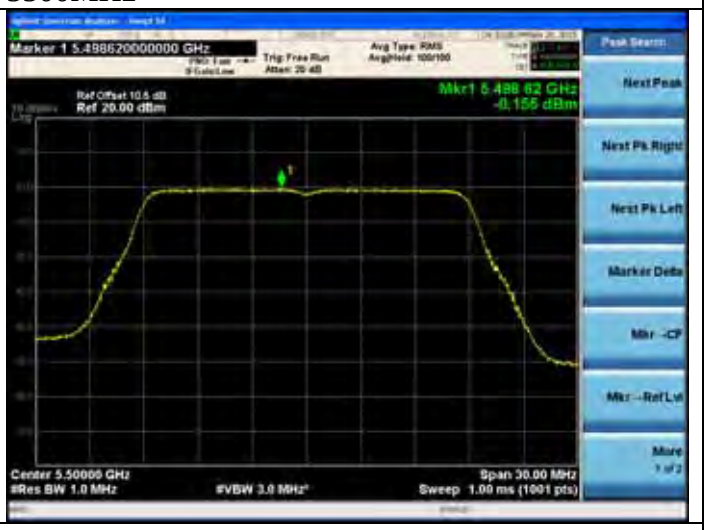
| | |
|---|---|
| | **11ac VHT80** |
| 5310MHz | 5290MHz |
|  |  |

| 5260-5320MHz Band: | |
|---|---|
| ANT 1 | |
| **11a** | **11n HT20** |
| 5260MHz | 5260MHz |
|  |  |
| 5300MHz | 5300MHz |
|  |  |
| 5320MHz | 5320MHz |
|  |  |

| **11n HT40** | |
|---|---|
| 5270MHz | 5300MHz |
|  |  |
| 5310MHz | 5320MHz |
|  |  |
| **11ac VHT20** | **11ac VHT40** |
| 5260MHz | 5270MHz |
|  |  |

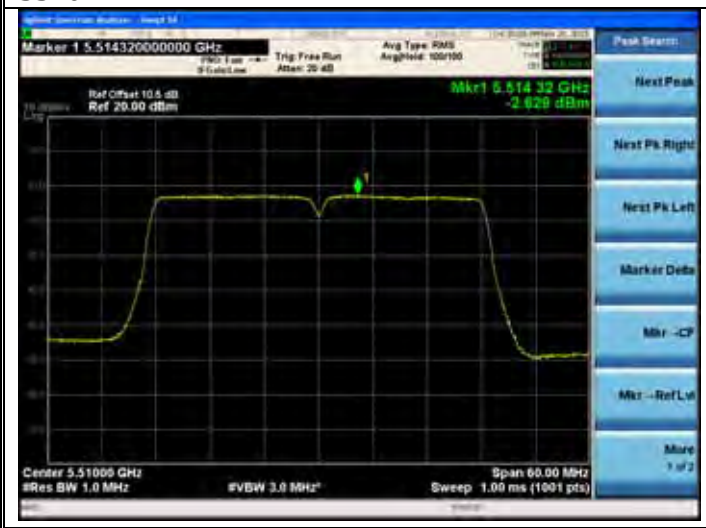
| | |
|---|---|
| | **11ac VHT80** |
| 5310MHz | 5290MHz |
|  |  |

| 5500-5700MHz Band: | |
|---|---|
| **ANT 0** | |
| **11a** | **11n HT20** |
| 5500MHz | 5500MHz |
|  |  |
| 5600MHz | 5600MHz |
|  |  |
| 5700MHz | 5700MHz |
|  |  |

| 11n HT40 | 11ac VHT20 |
|---|---|
| 5510MHz | 5500MHz |
|  |  |
| 5590MHz | 5600MHz |
|  |  |
| 5670MHz | 5700MHz |
|  |  |

**11ac VHT40**

5510MHz

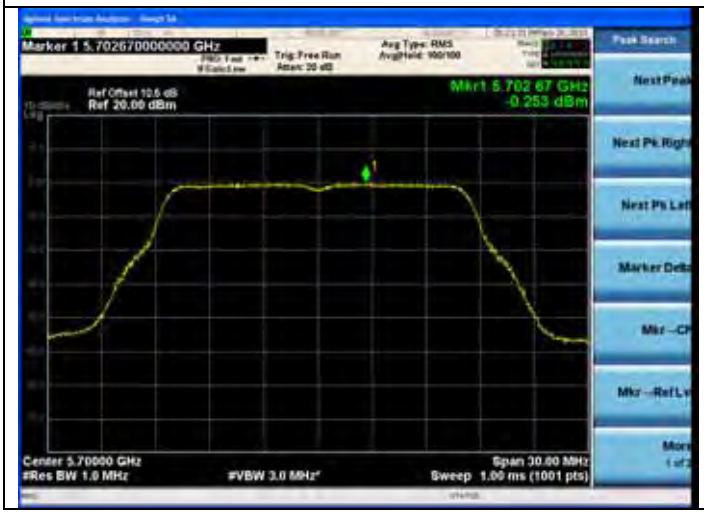


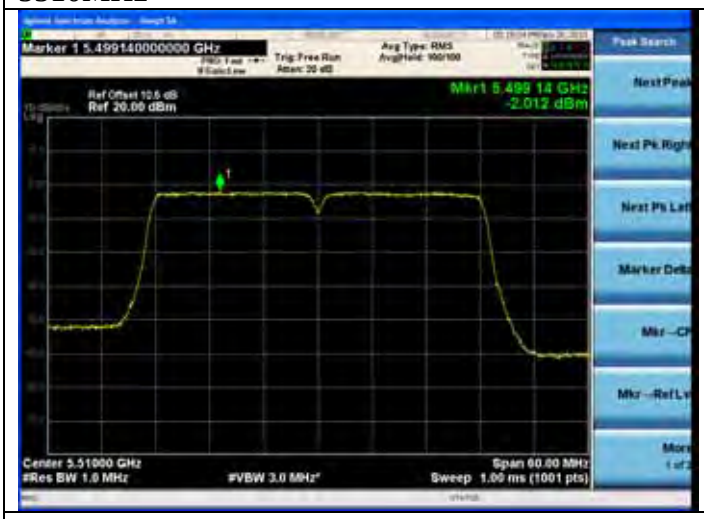
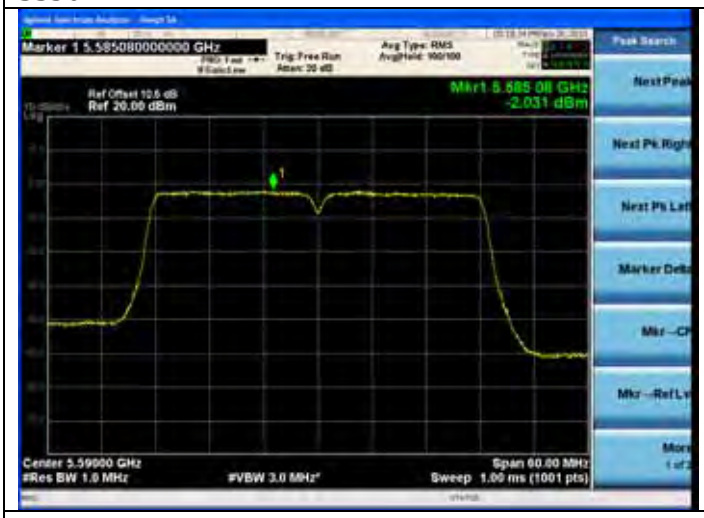
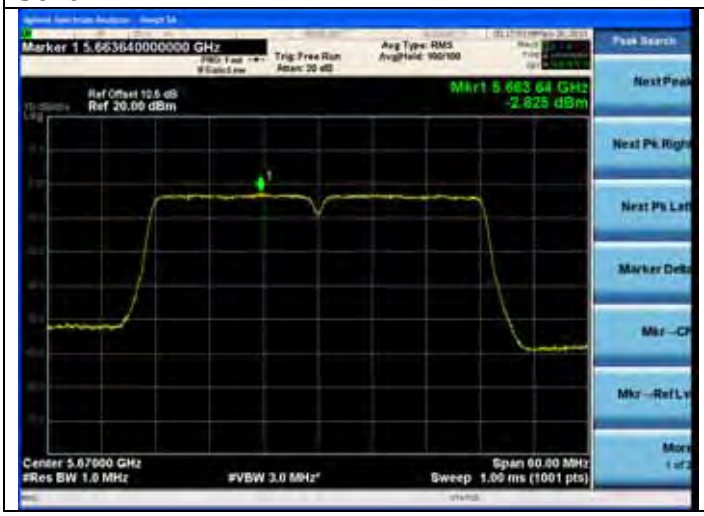

5670MHz

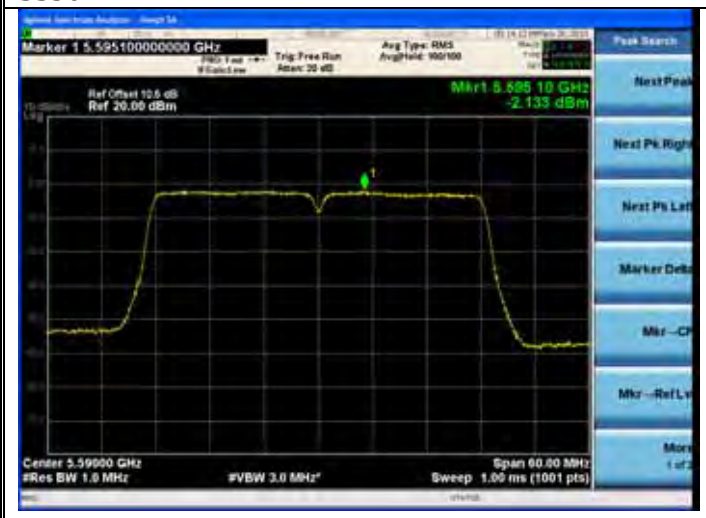

**11ac VHT80**

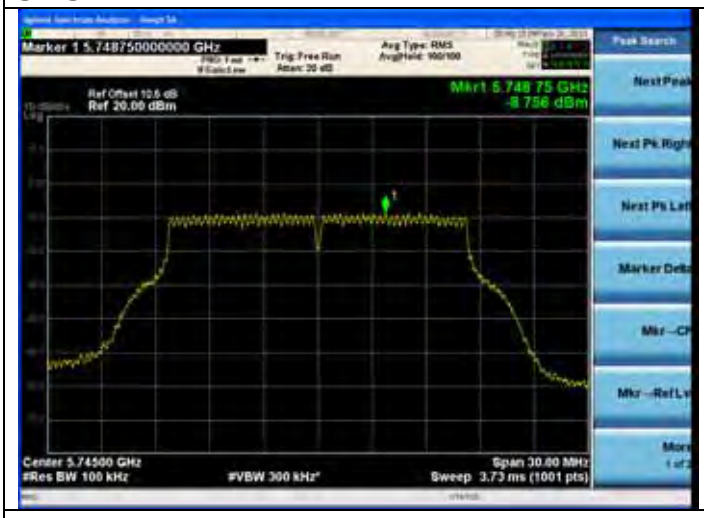
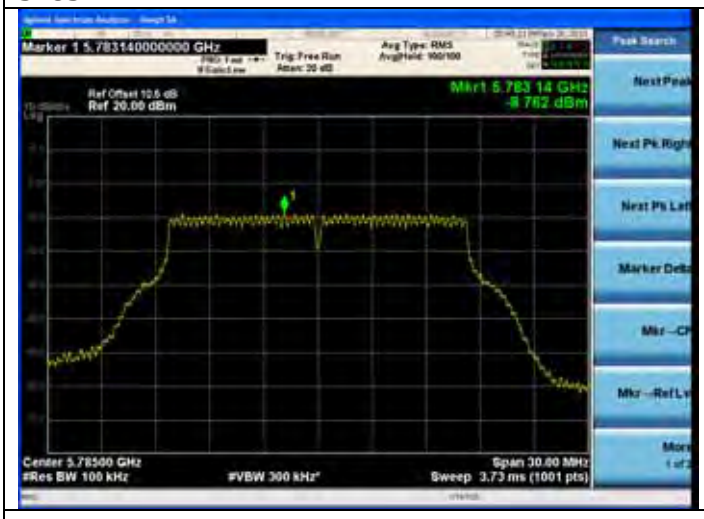
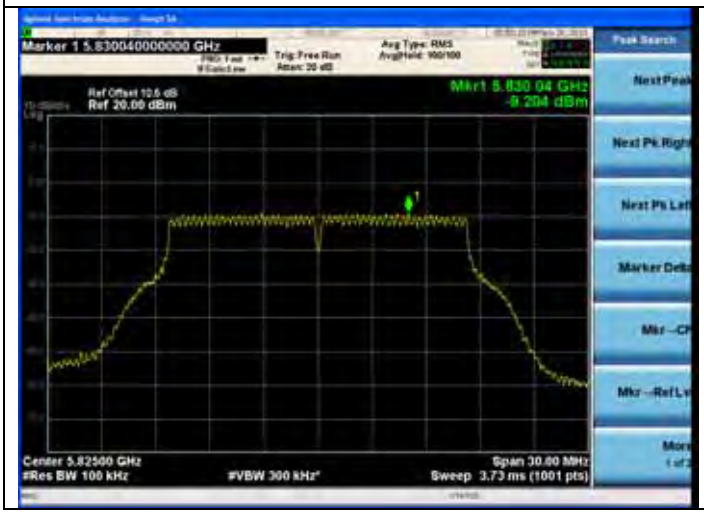
5590MHz

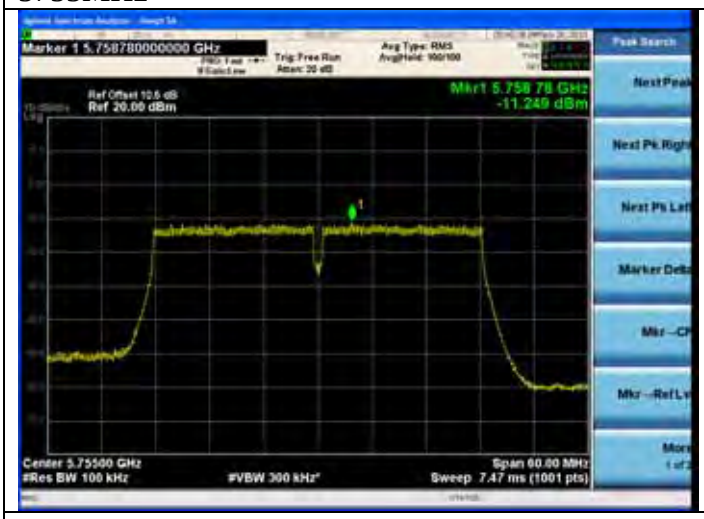
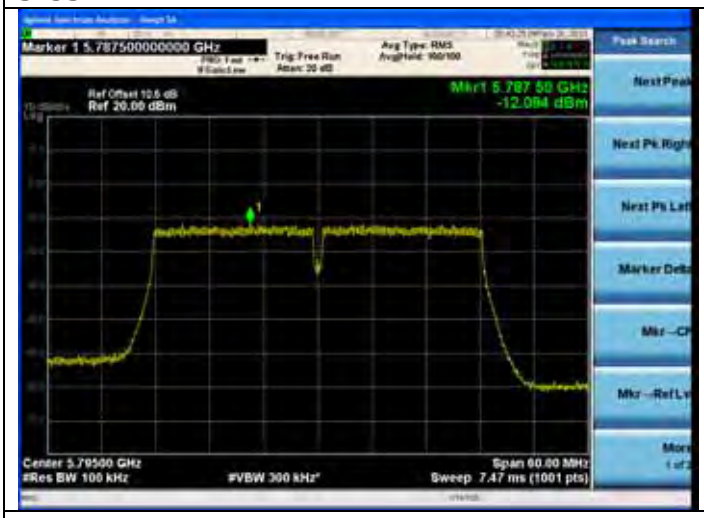
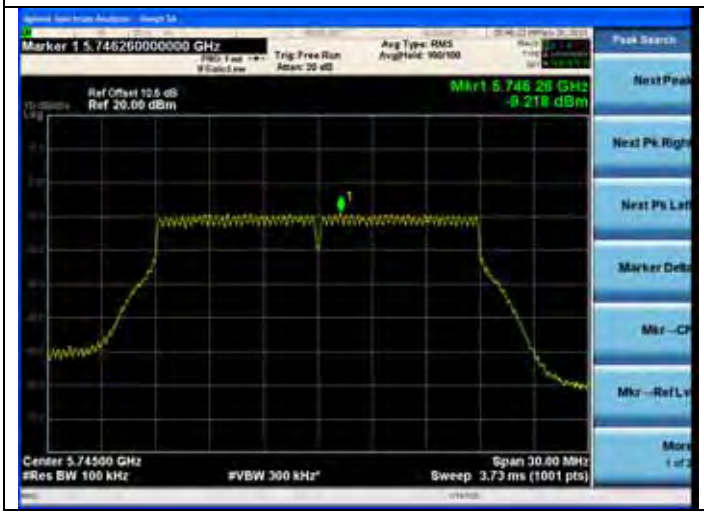

5530MHz

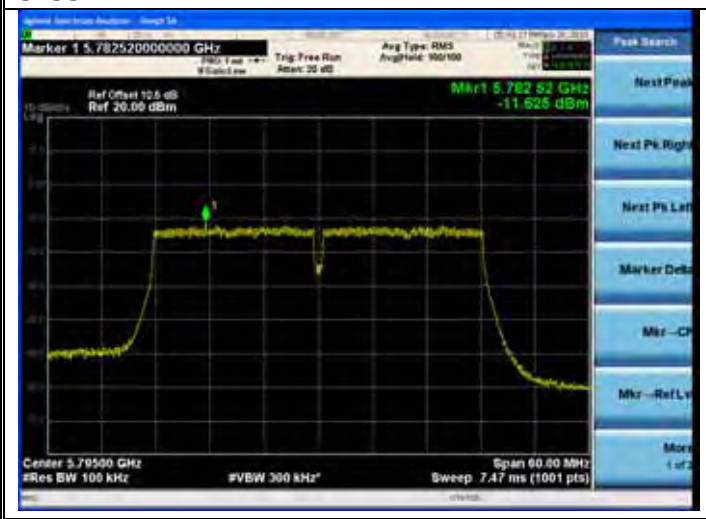
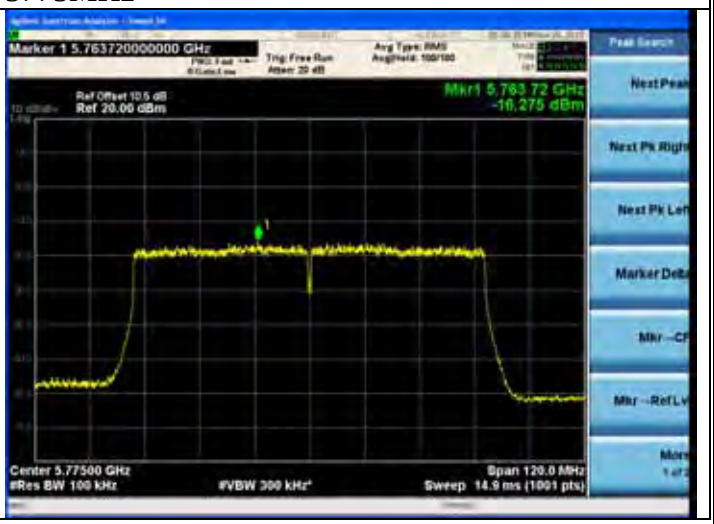
| 5500-5700MHz Band: | |
|---|---|
| ANT 1 | |
| **11a** | **11n HT20** |
| 5500MHz | 5500MHz |
|  |  |
| 5600MHz | 5600MHz |
|  |  |
| 5700MHz | 5700MHz |
|  |  |

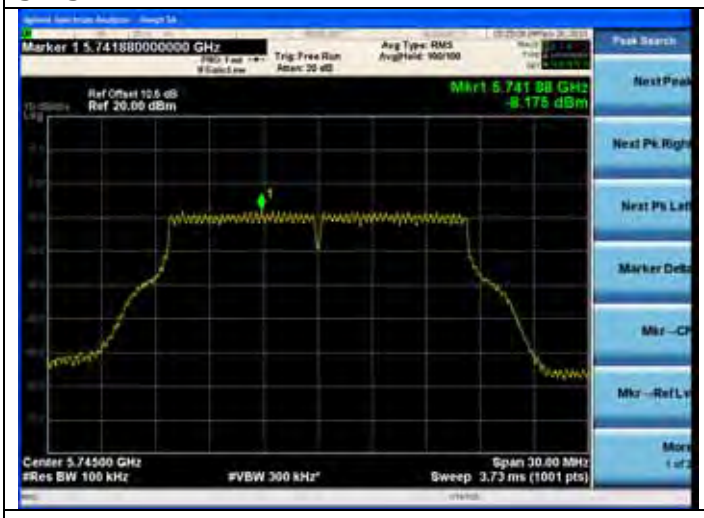
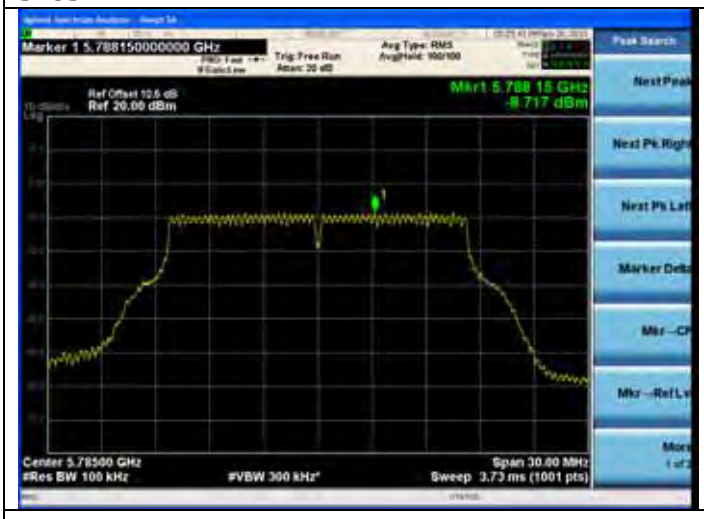
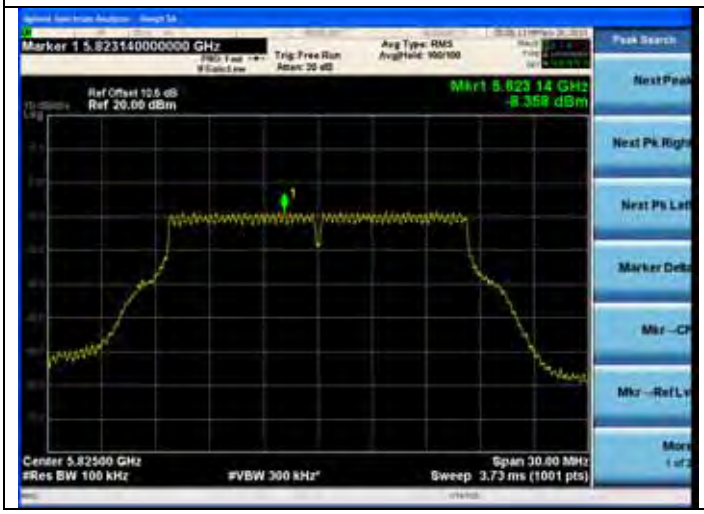
| 11n HT40 | 11ac VHT20 |
|---|---|
| 5510MHz | 5500MHz |
|  |  |
| 5590MHz | 5600MHz |
|  |  |
| 5670MHz | 5700MHz |
|  |  |

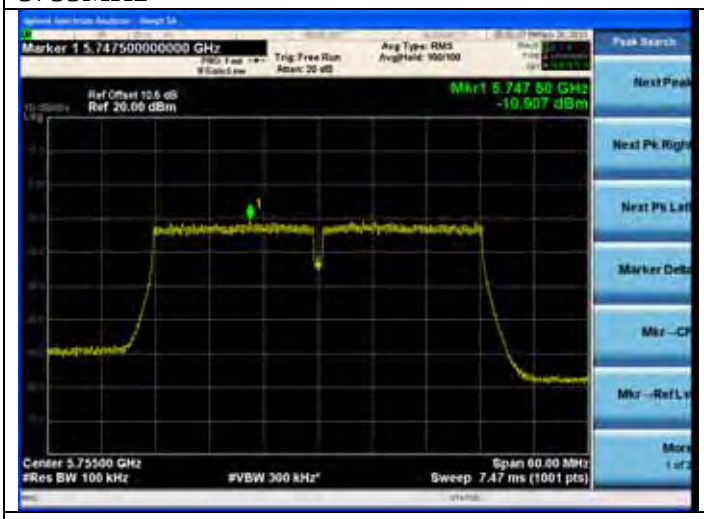
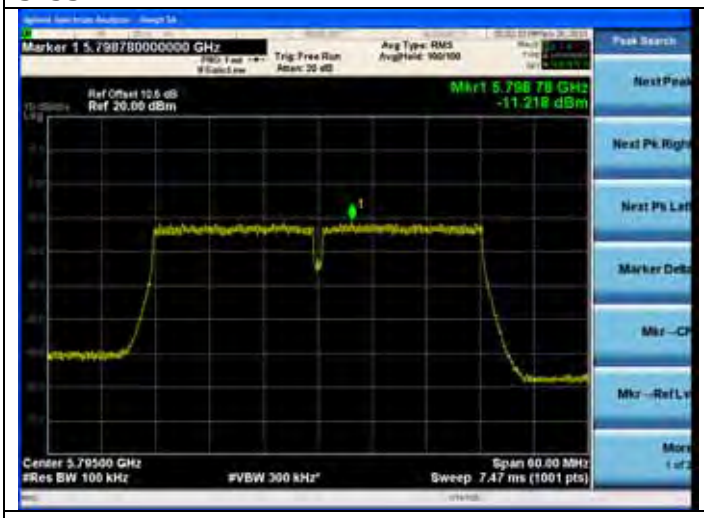
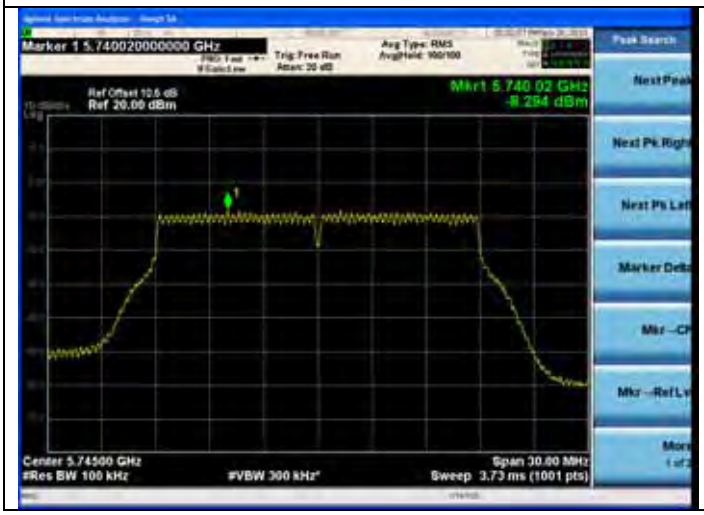
| | |
|---|---|
| **11ac VHT40**<br>5510MHz | 5670MHz |
|  |  |
| | **11ac VHT80** |
| 5590MHz | 5530MHz |
|  |  |

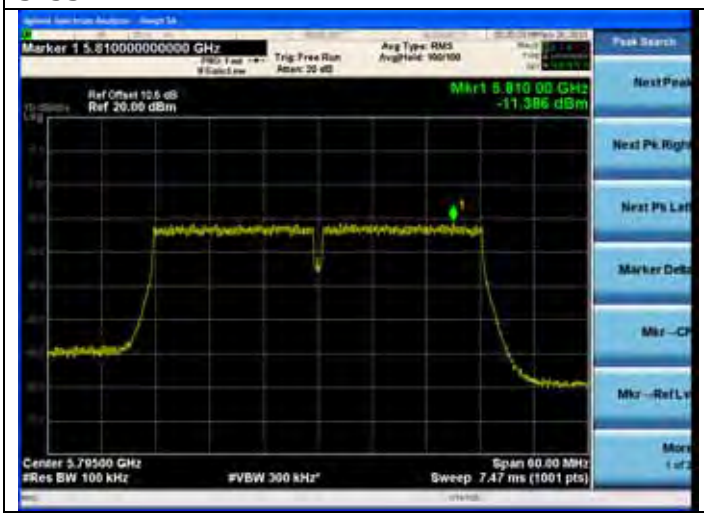
| 5745-5825MHz Band: | |
|---|---|
| ANT 0 | |
| **11a** | **11n HT20** |
| 5745MHz | 5745MHz |
|  |  |
| 5785MHz | 5785MHz |
|  |  |
| 5825MHz | 5825MHz |
|  |  |

| **11n HT40** | |
|---|---|
| 5755MHz | 5785MHz |
|  |  |
| 5795MHz | 5825MHz |
|  |  |
| **11ac VHT20** | **11ac VHT40** |
| 5745MHz | 5755MHz |
|  |  |

| | |
|---|---|
| | **11ac VHT80** |
| 5795MHz | 5775MHz |
|  |  |

| 5745-5825MHz Band: | |
|---|---|
| ANT 1 | |
| **11a** | **11n HT20** |
| 5745MHz | 5745MHz |
|  |  |
| 5785MHz | 5785MHz |
|  |  |
| 5825MHz | 5825MHz |
|  |  |

| **11n HT40** | |
|---|---|
| 5755MHz | 5785MHz |
|  |  |
| 5795MHz | 5825MHz |
|  |  |
| **11ac VHT20** | **11ac VHT40** |
| 5745MHz | 5755MHz |
|  |  |

| | 11ac VHT80 |
|---|---|
| 5795MHz | 5775MHz |
|  |  |

# 9. ANTENNA REQUIREMENT

## 9.1. Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.407 (a), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

## 9.2. Antenna Connected Construction

The antennas used for this product are PIFA antenna that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 3.41dBi.

# 10. DEVIATION TO TEST SPECIFICATIONS

[ NONE]