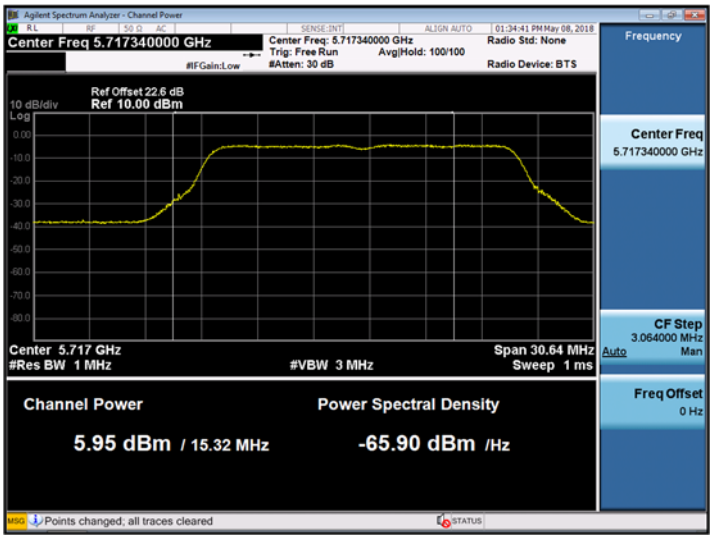
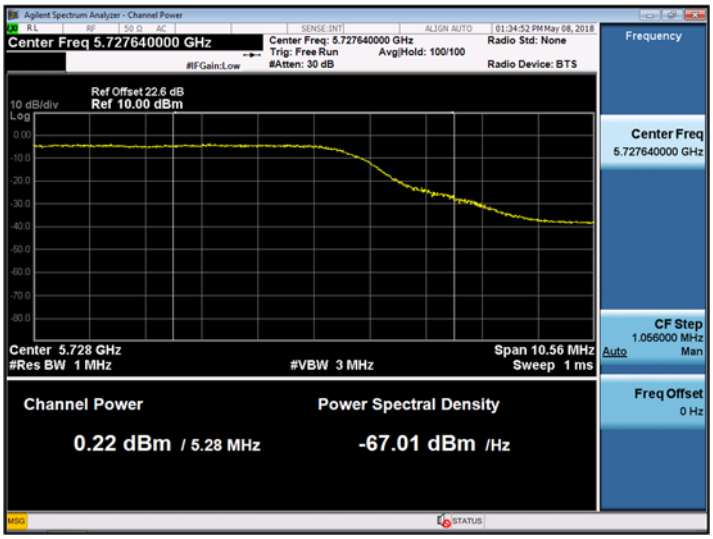
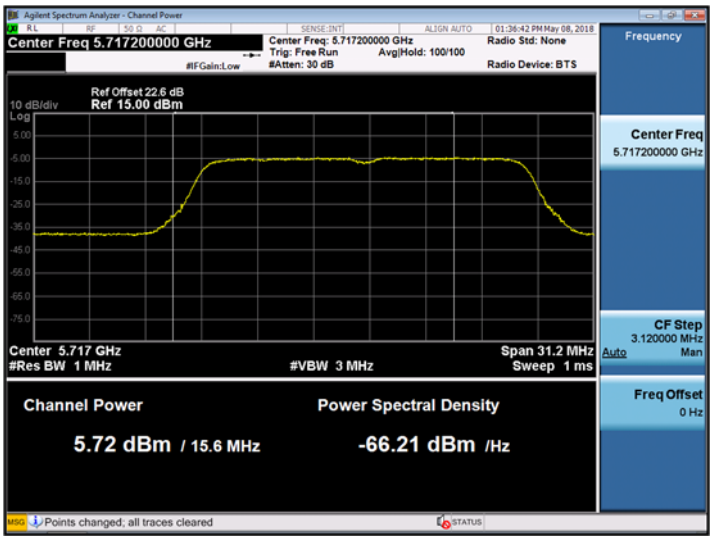
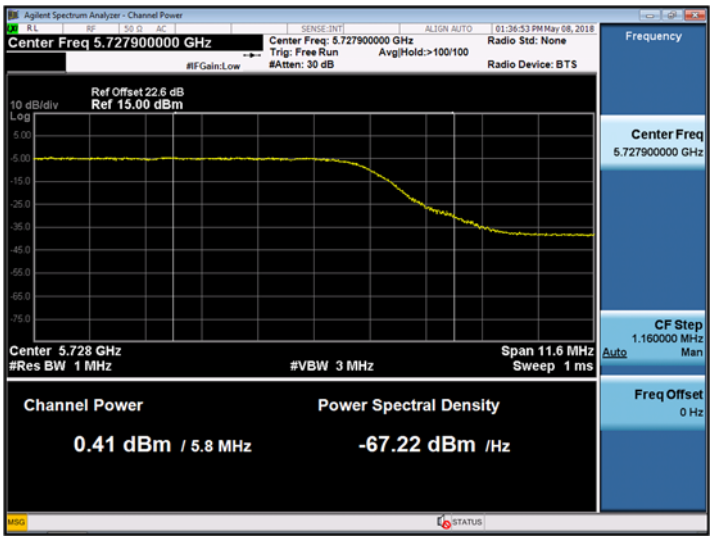
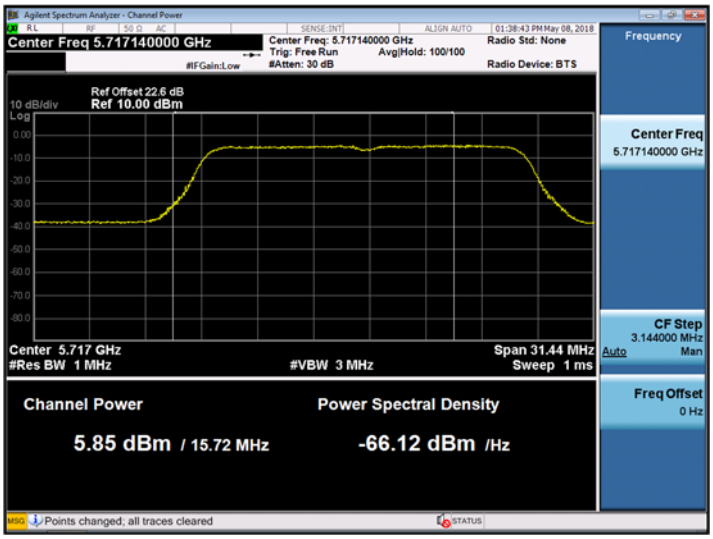
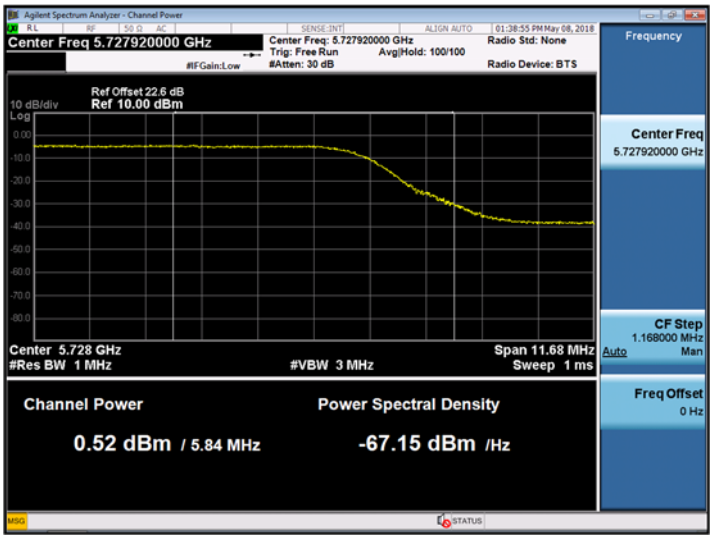
## ▣Straddle channels TEST Plot for 802.11a/n_HT20_Ant 3

| 802.11a UNII 2C Band Average Power CH.144 | 802.11a UNII 3 Band Average Power CH.144 |
|---|---|
|  |  |
| **802.11n_HT20 UNII 2C Band Average Power CH.144** | **802.11n_HT20 UNII 3 Band Average Power CH.144** |
|  |  |

## ▣Straddle channels TEST Plot for 802.11ac_VHT20_Ant 3

| 802.11ac_VHT20 UNII 2C Band Average Power CH.144 | 802.11ac_VHT20 UNII 3 Band Average Power CH.144 |
|---|---|
|  |  |

**▣Straddle channels TEST RESULTS_ Sum Data of Ant.0 and Ant.1 and Ant.2 and Ant.3**

**Conducted Output Power Measurements (802.11a/n_HT20/ac_VHT20 Mode: UNII 2C Band 5720MHz)**

| Mode (MIMO) | Frequency [MHz] | Channel No. | Sum Power of Ant.0 & 1 & 2 & 3 | Limit (dBm) |
|---|---|---|---|---|
| 802.11a | 5720 | 144 | 12.50 | 22.21 |
| 802.11n | | | 12.44 | 22.15 |
| 802.11ac | | | 12.72 | 22.13 |

**Conducted Output Power Measurements (802.11a/n_HT20/ac_VHT20 Mode: UNII 3 Band 5720MHz)**

| Mode (MIMO) | Frequency [MHz] | Channel No. | Sum Power of Ant.0 & 1 & 2 & 3 | Limit (dBm) |
|---|---|---|---|---|
| 802.11a | 5720 | 144 | 6.72 | 23.60 |
| 802.11n | | | 7.09 | 23.78 |
| 802.11ac | | | 7.31 | 23.84 |

**Note : The limit on maximum conducted output power in each U-NII band is computed based on the portion of the emission bandwidth contained within that band.**

**▣Straddle channels TEST RESULTS_Ant 0**

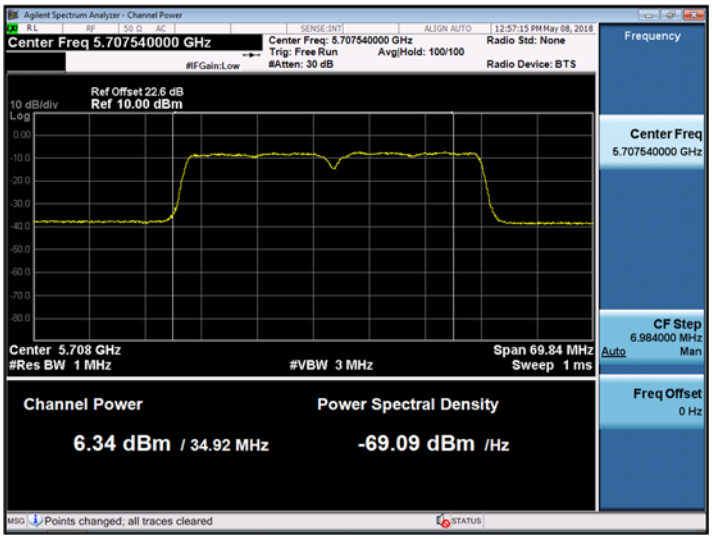
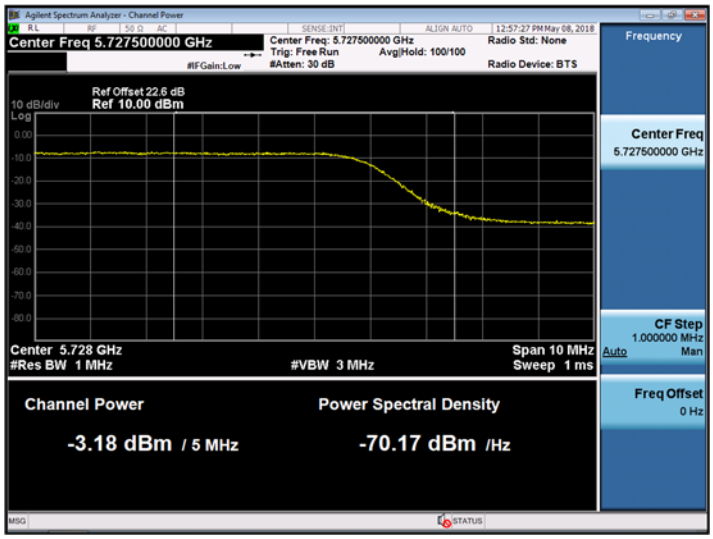
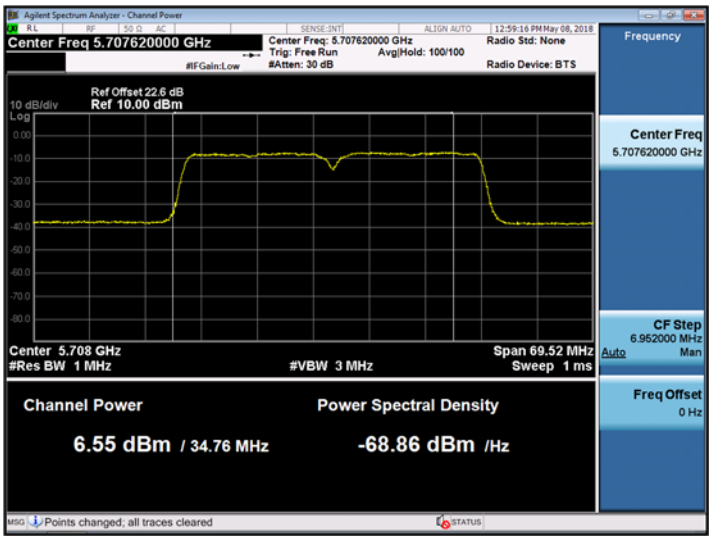
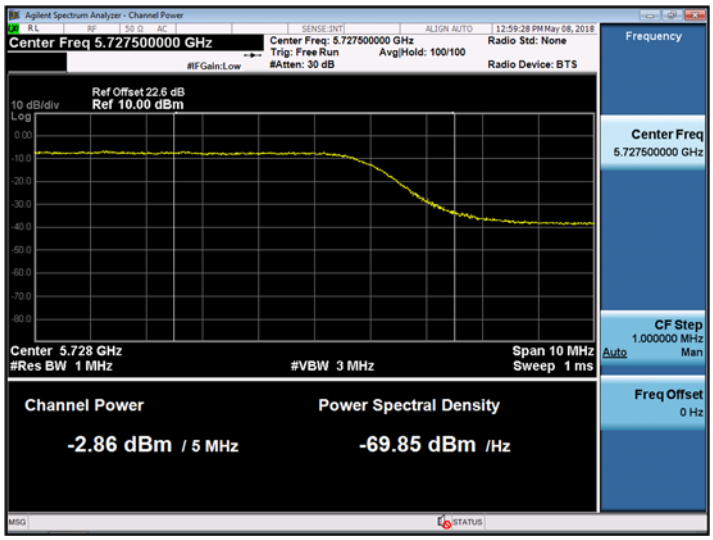
**Conducted Output Power Measurements (802.11n_HT40/ac_VHT40 Mode: UNII 2C Band 5710MHz)**

| Mode | Frequency [MHz] | Channel No. | Measured Power (dBm) | Duty Cycle Factor (dB) | Measured Power(dBm) + Duty Cycle Factor(dB) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 802.11n | 5710 | 142 | 6.34 | 0.719 | 7.06 | 22.92 |
| 802.11ac | | | 6.55 | 0.939 | 7.49 | 22.91 |

**Conducted Output Power Measurements (802.11n_HT40/ac_VHT40 Mode: UNII 3 Band 5710MHz)**

| Mode | Frequency [MHz] | Channel No. | Measured Power (dBm) | Duty Cycle Factor (dB) | Measured Power(dBm) + Duty Cycle Factor(dB) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 802.11n | 5710 | 142 | -3.18 | 0.719 | -2.46 | 20.49 |
| 802.11ac | | | -2.86 | 0.939 | -1.92 | 20.51 |

## ▣Straddle channels TEST Plot for 802.11n_HT40/ac_VHT40_Ant 0

| 802.11n_HT40 UNII 2C Band Average Power CH.142 | 802.11n_HT40 UNII 3 Band Average Power CH.142 |
|---|---|
|  |  |
| **802.11ac_VHT40 UNII 2C Band Average Power CH.142** | **802.11ac_VHT40 UNII 3 Band Average Power CH.142** |
|  |  |

## ▣Straddle channels TEST RESULTS_Ant 1

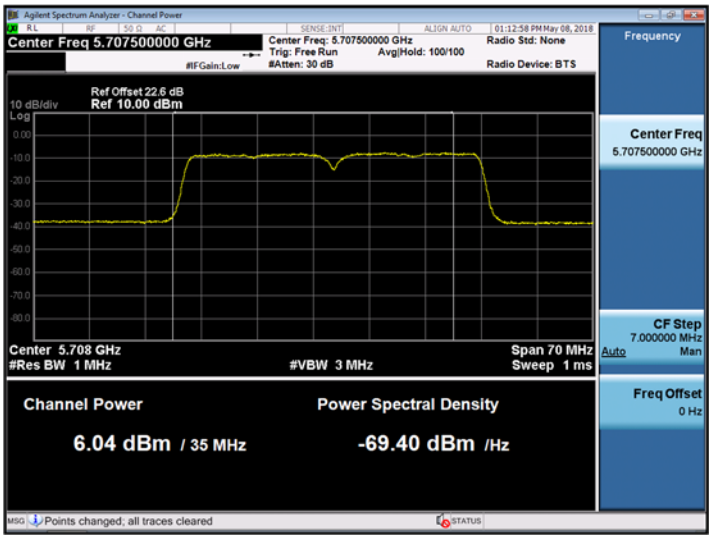
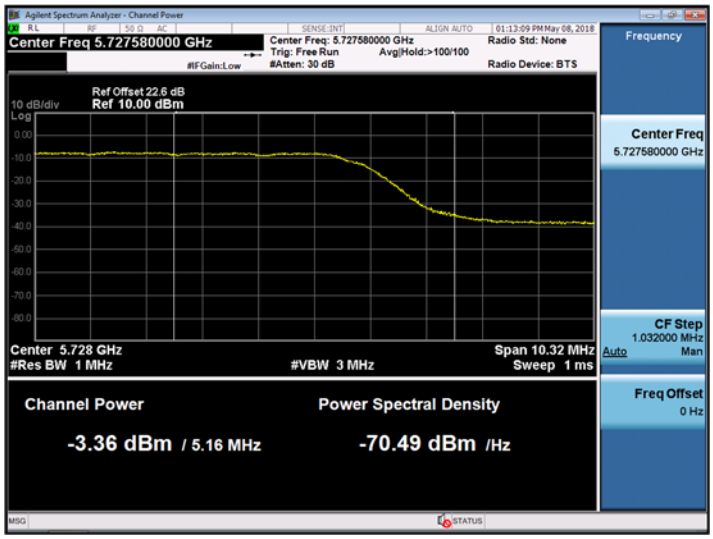
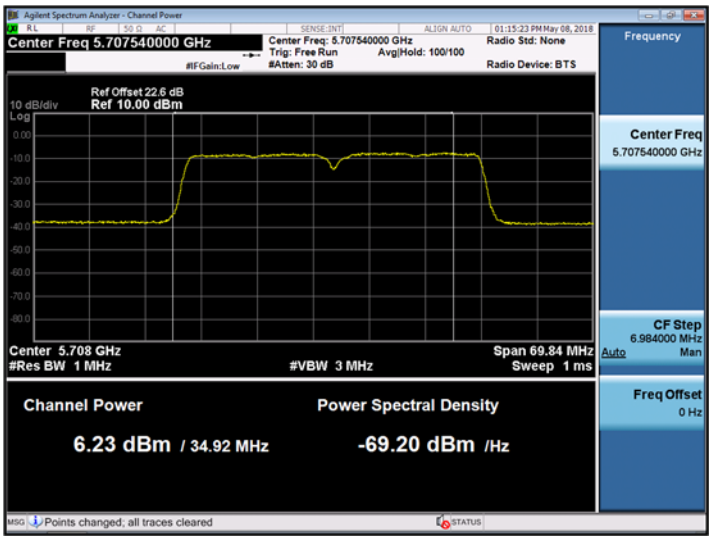
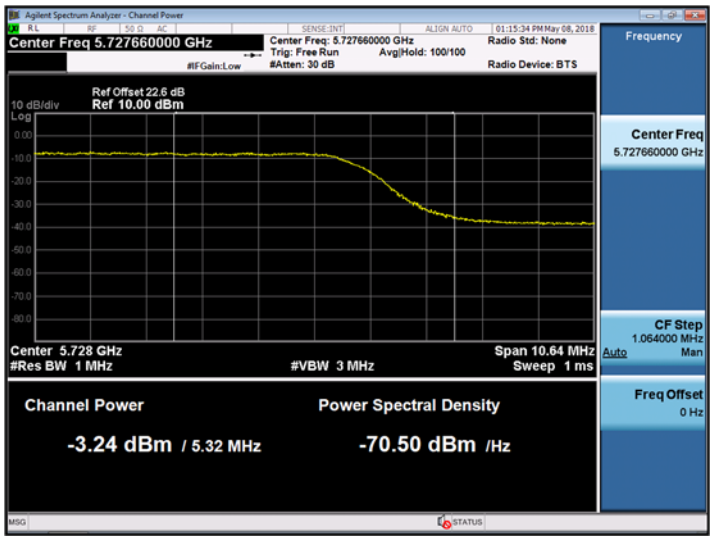
**Conducted Output Power Measurements (802.11n_HT40/ac_VHT40 Mode: UNII 2C Band 5710MHz)**

| Mode | Frequency [MHz] | Channel No. | Measured Power (dBm) | Duty Cycle Factor (dB) | Measured Power(dBm) + Duty Cycle Factor(dB) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 802.11n | 5710 | 142 | 6.04 | 0.719 | 6.76 | 22.90 |
| 802.11ac | | | 6.23 | 0.939 | 7.17 | 22.88 |

**Conducted Output Power Measurements (802.11n_HT40/ac_VHT40 Mode: UNII 3 Band 5710MHz)**

| Mode | Frequency [MHz] | Channel No. | Measured Power (dBm) | Duty Cycle Factor (dB) | Measured Power(dBm) + Duty Cycle Factor(dB) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 802.11n | 5710 | 142 | -3.36 | 0.719 | -2.64 | 20.60 |
| 802.11ac | | | -3.24 | 0.939 | -2.30 | 20.73 |

## ▣Straddle channels TEST Plot for 802.11n_HT40/ac_VHT40_Ant 1

| 802.11n_HT40 UNII 2C Band Average Power CH.142 | 802.11n_HT40 UNII 3 Band Average Power CH.142 |
|---|---|
|  |  |
| **802.11ac_VHT40 UNII 2C Band Average Power CH.142** | **802.11ac_VHT40 UNII 3 Band Average Power CH.142** |
|  |  |

## ▣Straddle channels TEST RESULTS_Ant 2

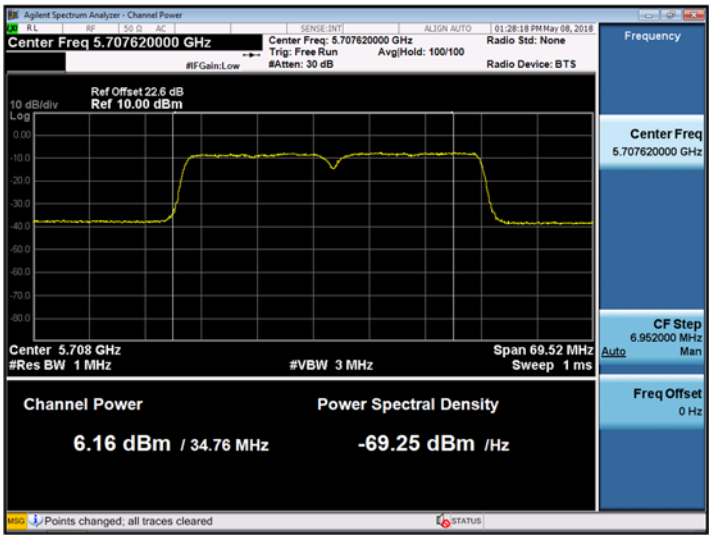
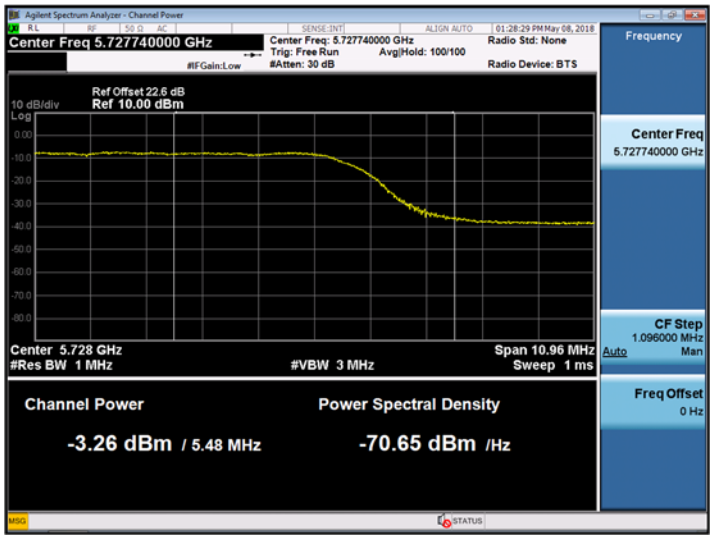
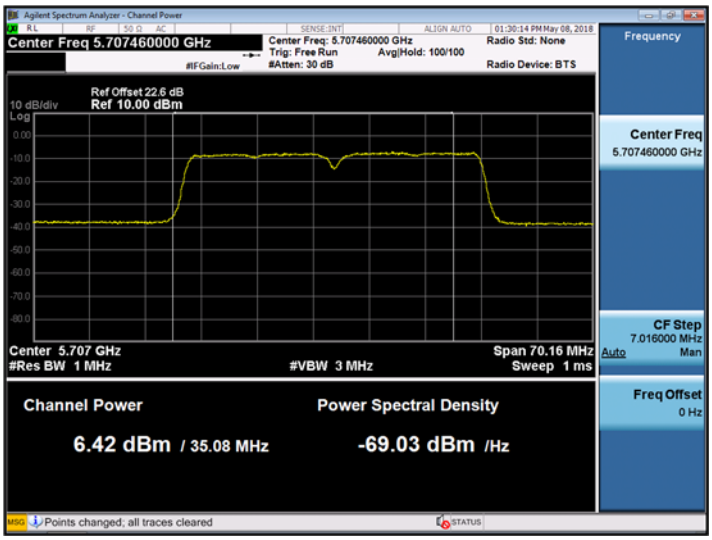
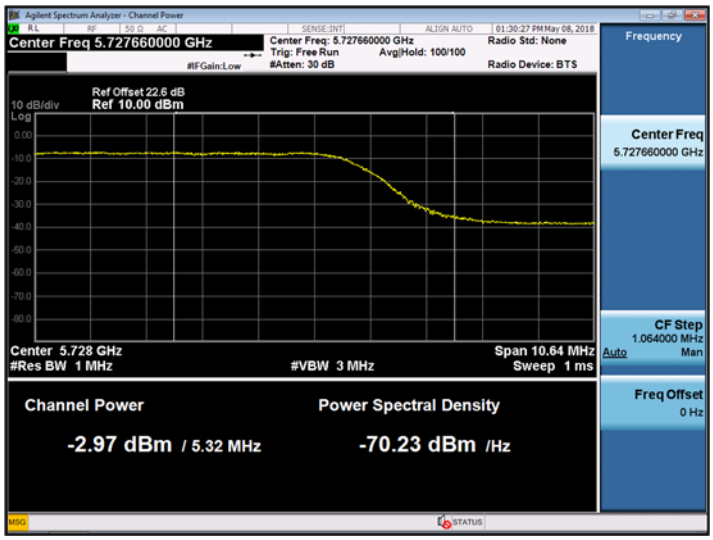
**Conducted Output Power Measurements (802.11n_HT40/ac_VHT40 Mode: UNII 2C Band 5710MHz)**

| Mode | Frequency [MHz] | Channel No. | Measured Power (dBm) | Duty Cycle Factor (dB) | Measured Power(dBm) + Duty Cycle Factor(dB) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 802.11n | 5710 | 142 | 6.16 | 0.719 | 6.88 | 22.86 |
| 802.11ac | | | 6.42 | 0.939 | 7.36 | 22.88 |

**Conducted Output Power Measurements (802.11n_HT40/ac_VHT40 Mode: UNII 3 Band 5710MHz)**

| Mode | Frequency [MHz] | Channel No. | Measured Power (dBm) | Duty Cycle Factor (dB) | Measured Power(dBm) + Duty Cycle Factor(dB) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 802.11n | 5710 | 142 | -3.26 | 0.719 | -2.54 | 20.86 |
| 802.11ac | | | -2.97 | 0.939 | -2.03 | 20.71 |

## ▣Straddle channels TEST Plot for 802.11n_HT40/ac_VHT40_Ant 2

| 802.11n_HT40 UNII 2C Band Average Power CH.142 | 802.11n_HT40 UNII 3 Band Average Power CH.142 |
|---|---|
|  |  |
| **802.11ac_VHT40 UNII 2C Band Average Power CH.142** | **802.11ac_VHT40 UNII 3 Band Average Power CH.142** |
|  |  |

## ▣Straddle channels TEST RESULTS_Ant 3

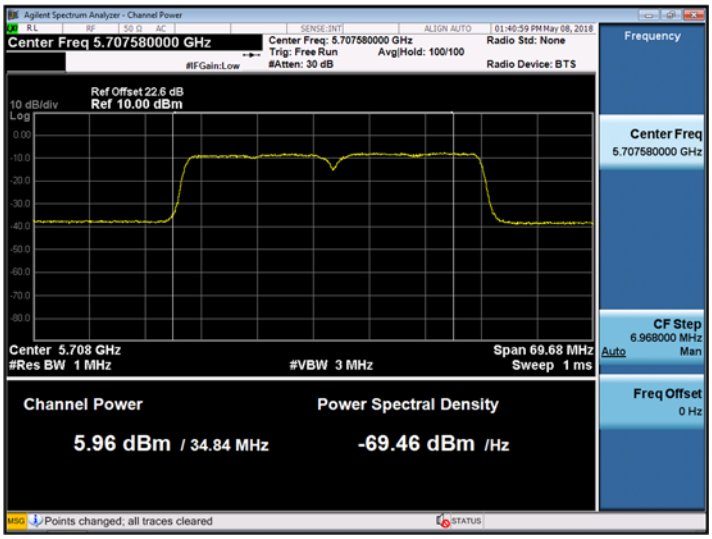
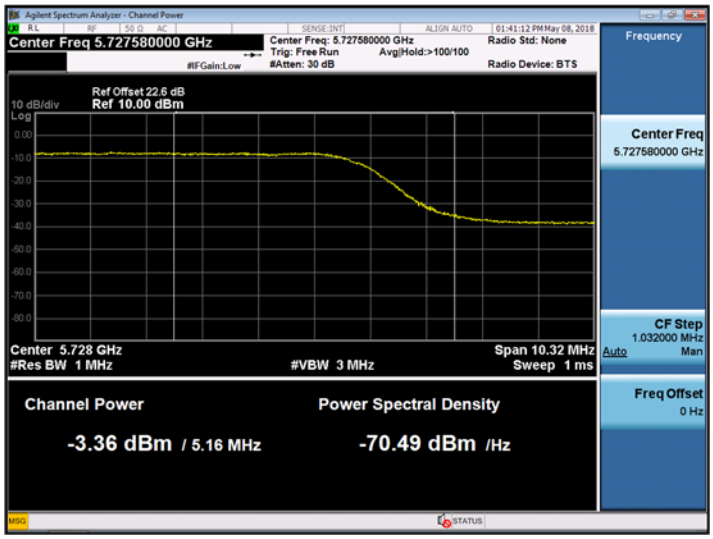
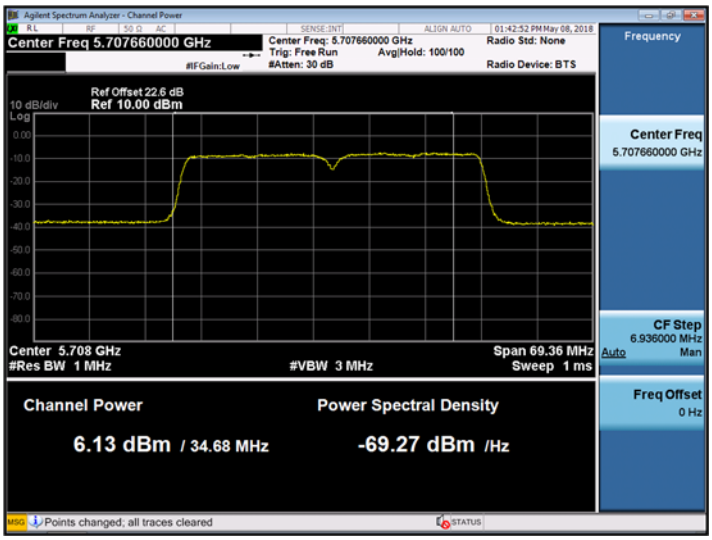
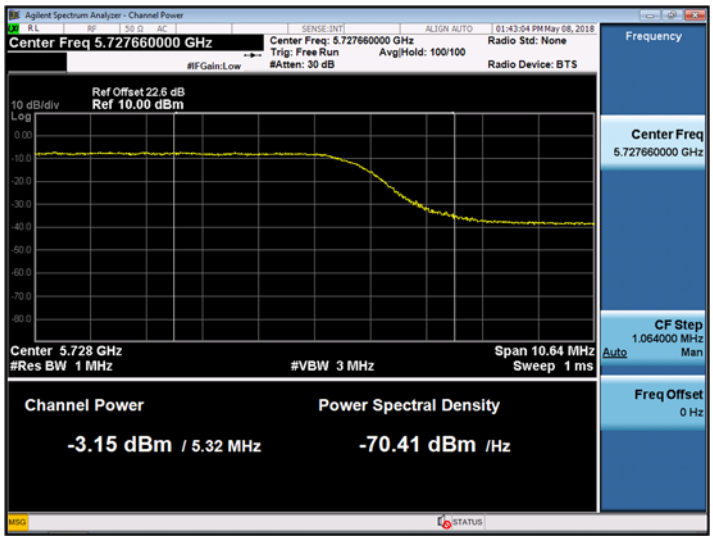
**Conducted Output Power Measurements (802.11n_HT40/ac_VHT40 Mode: UNII 2C Band 5710MHz)**

| Mode | Frequency [MHz] | Channel No. | Measured Power (dBm) | Duty Cycle Factor (dB) | Measured Power(dBm) + Duty Cycle Factor(dB) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 802.11n | 5710 | 142 | 5.96 | 0.719 | 6.68 | 22.90 |
| 802.11ac | | | 6.13 | 0.835 | 6.97 | 22.87 |

**Conducted Output Power Measurements (802.11n_HT40/ac_VHT40 Mode: UNII 3 Band 5710MHz)**

| Mode | Frequency [MHz] | Channel No. | Measured Power (dBm) | Duty Cycle Factor (dB) | Measured Power(dBm) + Duty Cycle Factor(dB) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 802.11n | 5710 | 142 | -3.36 | 0.719 | -2.64 | 20.62 |
| 802.11ac | | | -3.15 | 0.835 | -2.31 | 20.75 |

## ▣Straddle channels TEST Plot for 802.11n_HT40/ac_VHT40_Ant 3

| 802.11n_HT40 UNII 2C Band Average Power CH.142 | 802.11n_HT40 UNII 3 Band Average Power CH.142 |
|---|---|
|  |  |
| **802.11ac_VHT40 UNII 2C Band Average Power CH.142** | **802.11ac_VHT40 UNII 3 Band Average Power CH.142** |
|  |  |

**▣Straddle channels TEST RESULTS_ Sum Data of Ant.0 and Ant.1 and Ant.2 and Ant.3**

**Conducted Output Power Measurements (802.11n_HT40/ac_VHT40 Mode: UNII 2C Band 5710MHz)**

| Mode (MIMO) | Frequency [MHz] | Channel No. | Sum Power of Ant.0 & 1 & 2 & 3 | Limit (dBm) |
|---|---|---|---|---|
| 802.11n | 5710 | 142 | 12.87 | 22.86 |
| 802.11ac | | | 13.27 | 22.87 |

**Conducted Output Power Measurements (802.11n_HT40/ac_VHT40 Mode: UNII 3 Band 5710MHz)**

| Mode (MIMO) | Frequency [MHz] | Channel No. | Sum Power of Ant.0 & 1 | Limit (dBm) |
|---|---|---|---|---|
| 802.11n | 5710 | 142 | 3.45 | 20.49 |
| 802.11ac | | | 3.88 | 20.51 |

**Note : The limit on maximum conducted output power in each U-NII band is computed based on the portion of the emission bandwidth contained within that band.**

## ▣Straddle channels TEST RESULTS_Ant 0

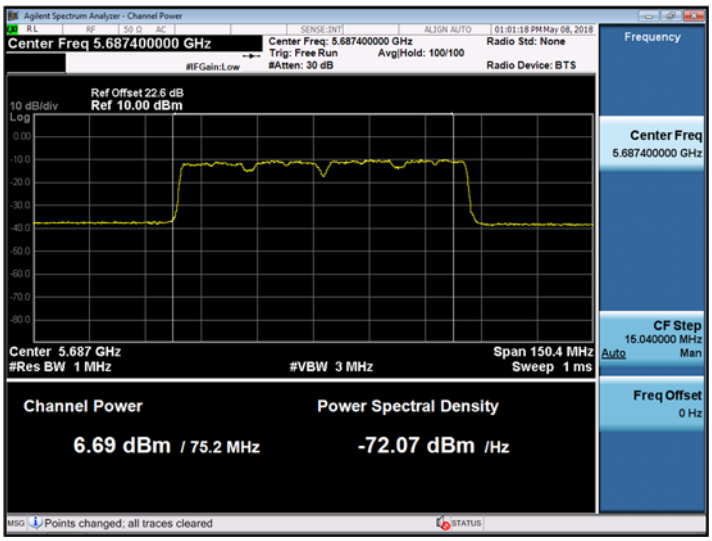
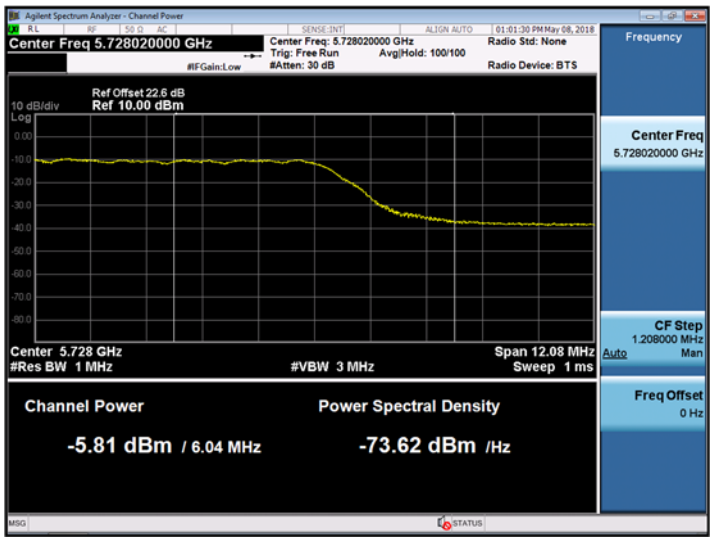
**Conducted Output Power Measurements (802.11ac_VHT80 Mode: UNII 2C Band 5690MHz)**

| Mode | Frequency [MHz] | Channel No. | Measured Power (dBm) | Duty Cycle Factor (dB) | Measured Power(dBm) + Duty Cycle Factor(dB) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 802.11ac | 5690 | 138 | 6.69 | 1.362 | 8.05 | 23.16 |

**Conducted Output Power Measurements (802.11ac_VHT80 Mode: UNII 3 Band 5690MHz)**

| Mode | Frequency [MHz] | Channel No. | Measured Power (dBm) | Duty Cycle Factor (dB) | Measured Power(dBm) + Duty Cycle Factor(dB) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 802.11ac | 5690 | 138 | -5.81 | 1.362 | -4.45 | 18.23 |

## ▣Straddle channels TEST Plot for 802.11ac_VHT80_Ant 0

| 802.11ac_VHT80 UNII 2C Band Average Power CH.138 | 802.11ac_VHT80 UNII 3 Band Average Power CH.138 |
|---|---|
|  |  |

## ▣Straddle channels TEST RESULTS_Ant 1

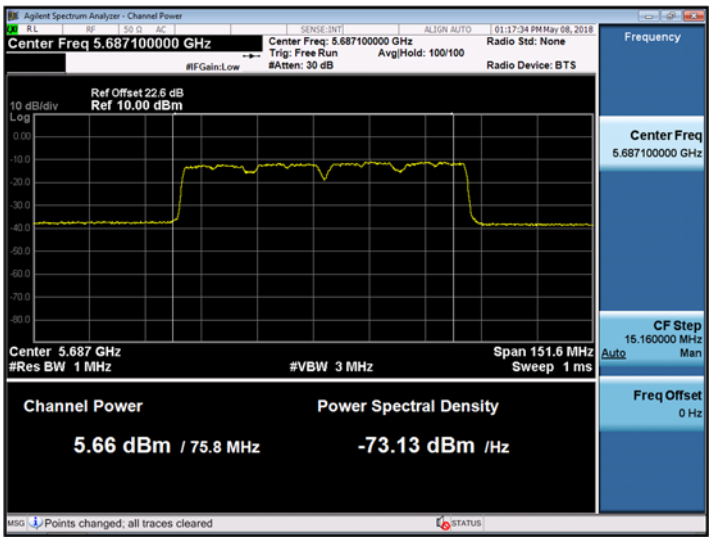
**Conducted Output Power Measurements (802.11ac_VHT80 Mode: UNII 2C Band 5690MHz)**

| Mode | Frequency [MHz] | Channel No. | Measured Power (dBm) | Duty Cycle Factor (dB) | Measured Power(dBm) + Duty Cycle Factor(dB) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 802.11ac | 5690 | 138 | 5.66 | 1.427 | 7.09 | 23.15 |

**Conducted Output Power Measurements (802.11ac_VHT80 Mode: UNII 3 Band 5690MHz)**

| Mode | Frequency [MHz] | Channel No. | Measured Power (dBm) | Duty Cycle Factor (dB) | Measured Power(dBm) + Duty Cycle Factor(dB) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 802.11ac | 5690 | 138 | -6.88 | 1.427 | -5.45 | 18.35 |

## ▣Straddle channels TEST Plot for 802.11ac_VHT80_Ant 1

| 802.11ac_VHT80 UNII 2C Band Average Power CH.138 | 802.11ac_VHT80 UNII 3 Band Average Power CH.138 |
|---|---|
|  |  |

## ▣Straddle channels TEST RESULTS_Ant 2

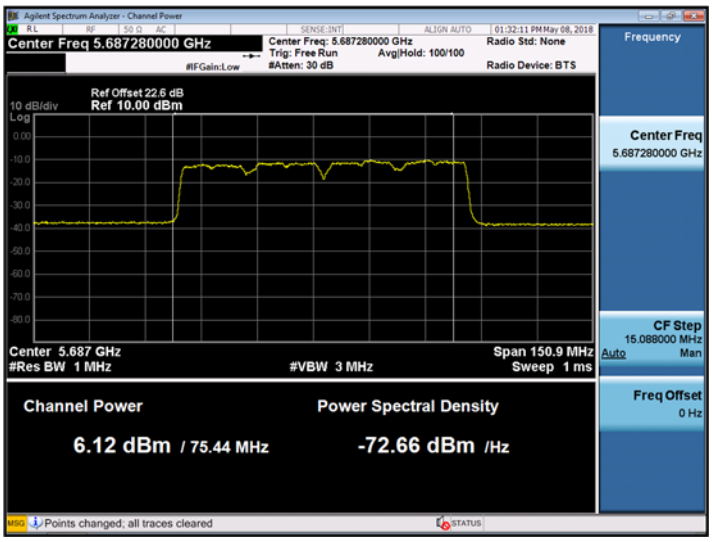
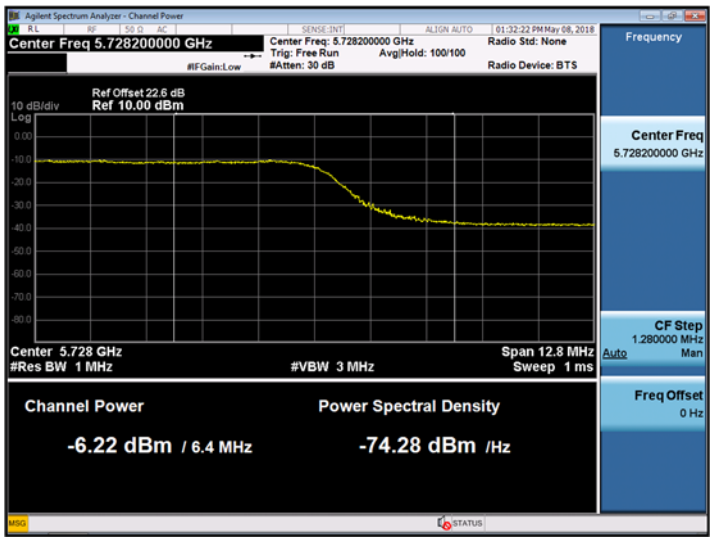
**Conducted Output Power Measurements (802.11ac_VHT80 Mode: UNII 2C Band 5690MHz)**

| Mode | Frequency [MHz] | Channel No. | Measured Power (dBm) | Duty Cycle Factor (dB) | Measured Power(dBm) + Duty Cycle Factor(dB) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 802.11ac | 5690 | 138 | 6.12 | 1.427 | 7.55 | 23.14 |

**Conducted Output Power Measurements (802.11ac_VHT80 Mode: UNII 3 Band 5690MHz)**

| Mode | Frequency [MHz] | Channel No. | Measured Power (dBm) | Duty Cycle Factor (dB) | Measured Power(dBm) + Duty Cycle Factor(dB) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 802.11ac | 5690 | 138 | -6.22 | 1.427 | -4.79 | 18.45 |

## ▣Straddle channels TEST Plot for 802.11ac_VHT80_Ant 2

| 802.11ac_VHT80 UNII 2C Band Average Power CH.138 | 802.11ac_VHT80 UNII 3 Band Average Power CH.138 |
|---|---|
|  |  |

## ▣Straddle channels TEST RESULTS_Ant 3

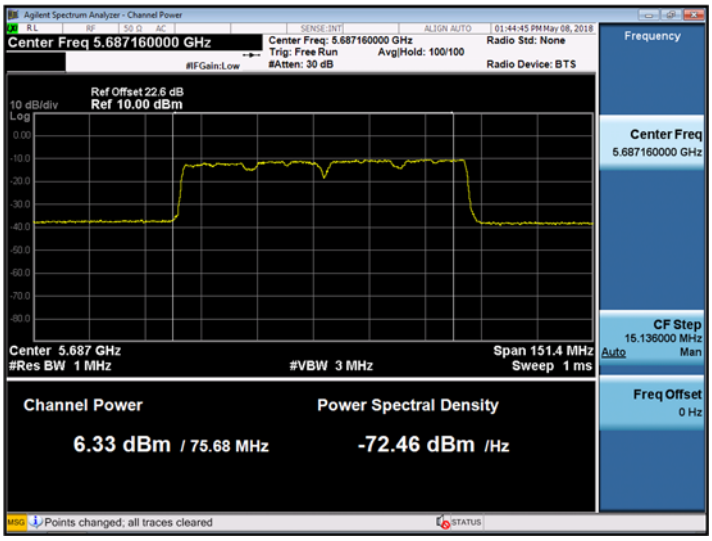
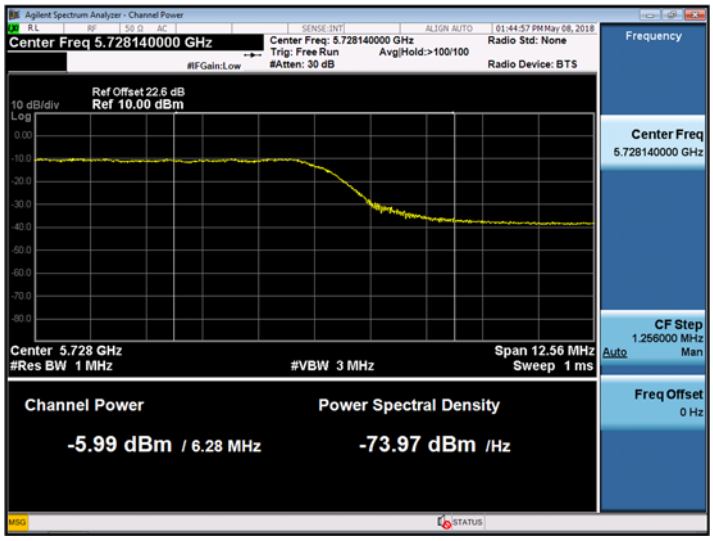
**Conducted Output Power Measurements (802.11ac_VHT80 Mode: UNII 2C Band 5690MHz)**

| Mode | Frequency [MHz] | Channel No. | Measured Power (dBm) | Duty Cycle Factor (dB) | Measured Power(dBm) + Duty Cycle Factor(dB) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 802.11ac | 5690 | 138 | 6.33 | 1.249 | 7.58 | 23.15 |

**Conducted Output Power Measurements (802.11ac_VHT80 Mode: UNII 3 Band 5690MHz)**

| Mode | Frequency [MHz] | Channel No. | Measured Power (dBm) | Duty Cycle Factor (dB) | Measured Power(dBm) + Duty Cycle Factor(dB) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 802.11ac | 5690 | 138 | -5.99 | 1.249 | -4.74 | 18.36 |

## ▣Straddle channels TEST Plot for 802.11ac_VHT80_Ant 3

| 802.11ac_VHT80 UNII 2C Band Average Power CH.138 | 802.11ac_VHT80 UNII 3 Band Average Power CH.138 |
|---|---|
|  |  |

**▣Straddle channels TEST RESULTS_ Sum Data of Ant.0 and Ant.1 and Ant.2 and Ant.3**

**Conducted Output Power Measurements (802.11ac_VHT80 Mode: UNII 3 Band 5690MHz)**

| Mode (MIMO) | Frequency [MHz] | Channel No. | Sum Power of Ant.0 & 1 | Limit (dBm) |
|---|---|---|---|---|
| 802.11ac | 5690 | 138 | 13.59 | 23.14 |

**Conducted Output Power Measurements (802.11ac_VHT80 Mode: UNII 3 Band 5690MHz)**

| Mode (MIMO) | Frequency [MHz] | Channel No. | Sum Power of Ant.0 & 1 | Limit (dBm) |
|---|---|---|---|---|
| 802.11ac | 5690 | 138 | 1.17 | 18.23 |

**Note : The limit on maximum conducted output power in each U-NII band is computed based on the portion of the emission bandwidth contained within that band.**

## 9.4 POWER SPECTRAL DENSITY

The peak power density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies.

**▣ Limit**

**Power Spectral Density**

| Band | Mode | Limit |
|---|---|---|
| UNII 1 | 802.11a,n,ac | 17 dBm/MHz |
| UNII 2A | 802.11a,n,ac | 11 dBm/MHz |
| UNII 2C | 802.11a,n,ac | 11 dBm/MHz |
| UNII 3 | 802.11a,n,ac | 30 dBm/500 kHz |

Note : Note : According to KDB789033 D02 v02r01, emission for straddle channels in each band shall comply with the PSD limits applicable to that band under the appropriate rule section.

Power Spectral Density

| Operating Mode | Band | Mode | Operating Ant. | Ant. Gain (dBi) | Limit (dBm) |
|---|---|---|---|---|---|
| SISO | UNII 1 | 802.11a/n/ac | Ant 0 | 6.486 | 16.51 |
| | | | Ant 1 | | 16.51 |
| | | | Ant 2 | | 16.51 |
| | | | Ant 3 | | 16.51 |
| | UNII 2A | | Ant 0 | 6.800 | 10.20 |
| | | | Ant 1 | | 10.20 |
| | | | Ant 2 | | 10.20 |
| | | | Ant 3 | | 10.20 |
| | UNII 2C | | Ant 0 | 6.482 | 10.52 |
| | | | Ant 1 | | 10.52 |
| | | | Ant 2 | | 10.52 |
| | | | Ant 3 | | 10.52 |
| | UNII 3 | | Ant 0 | 6.478 | 29.52 |
| | | | Ant 1 | | 29.52 |
| | | | Ant 2 | | 29.52 |
| | | | Ant 3 | | 29.52 |
| MIMO | UNII 1 | 802.11a/n/ac | Ant 0 & 1 & 2 & 3 | 12.51 | 10.49 |
| | UNII 2A | | | 12.82 | 4.18 |
| | UNII 2C | | | 12.50 | 4.50 |
| | UNII 3 | | | 12.50 | 23.50 |

Note : 1. If all antennas have the same gain, $G_{ANT}$

Directional gain = $G_{ANT}$ + Array Gain, where Array Gain is as follows.

• For power spectral density (PSD) measurements on all devices.

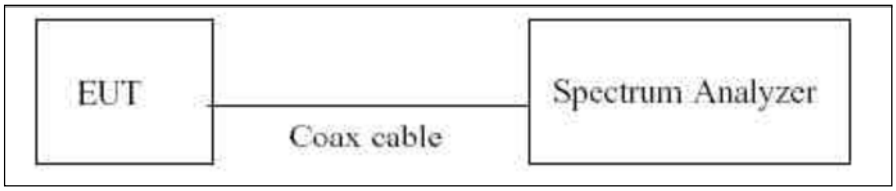
Array Gain = 10 log($N_{ANT}/N_{SS}$) dB.

(according to KDB662911 D01 v02r01)

2. Limit is calculated by antenna gain.

3. The limits of maximum conducted power were applied the antenna gain. Therefore, if conducted power is pass, e.i.r.p. is also pass. So, we attached only conducted power table.

## ▣ TEST CONFIGURATION




## ▣ TEST PROCEDURE

We tested according to Method in KDB 789033 D02 v02r01.

The spectrum analyzer is set to :

1. Set span to encompass the entire emission bandwidth(EBW) of the signal.
2. RBW = 1 MHz(510 kHz for UNII 3)
3. VBW ≥ 3 MHz
4. Number of points in sweep ≥ 2*span/RBW.
5. Sweep time = auto.
6. Detector = RMS(i.e., power averaging), if available. Otherwise, use sample detector mode.
7. Do not use sweep triggering. Allow the sweep to “free run”.
8. Trace average at least 100 traces in power averaging(RMS) mode
9. Use the peak search function on the spectrum analyzer to find the peak of the spectrum.
10. If Method SA-2 was used, add 10 log(1/x), where x is the duty cycle, to the peak of the spectrum.

## ▣ Sample Calculation

ANT.0

PSD = Reading Value + ATT loss + Cable loss(1 ea) + Duty Cycle Factor

Ex) PSD = 10 dBm + 20 dB + 1.17 dB + 0.2 dB = 31.0 dBm

ANT.1

PSD = Reading Value + ATT loss + Cable loss(2 ea) + Duty Cycle Factor

Ex) PSD = 10 dBm + 20 dB + 2.05 dB + 0.2 dB = 31.7 dBm

Note :

1. Spectrum reading values are not plot data. The PSD results in plot is already including the actual values of loss for the attenuator and cable combination.
2. Spectrum offset = Attenuator loss + Cable loss
3. We apply the offset of 5 GHz band is 21.5dB.

(Actual value of loss for the attenuator and cable combination)

4. MIMO output power results are calculated by each antenna output power on MIMO operating mode. So, in case of MIMO output power, we attached only MIMO output power except each antenna power result.

**Ant.0**

**▣ TEST RESULTS**

**Conducted Power Density Measurements**

| Frequency (MHz) | Channel No. | Mode | Test Result | | | | |
|---|---|---|---|---|---|---|---|
| | | | Measured Power Density (dBm) | Duty Cycle Factor (dB) | Measured Power Density(dBm) + Duty Cycle Factor | Limit (dBm) | Pass/Fail |
| 5180 | 36 | 802.11a (SISO) | 1.770 | 0.203 | 1.973 | 16.51 | Pass |
| 5200 | 40 | | 1.526 | 0.358 | 1.884 | | Pass |
| 5240 | 48 | | 1.512 | 0.220 | 1.732 | | Pass |
| 5260 | 52 | | -2.178 | 0.358 | -1.820 | 10.20 | Pass |
| 5300 | 60 | | -2.113 | 0.212 | -1.901 | | Pass |
| 5320 | 64 | | -2.407 | 0.358 | -2.049 | | Pass |
| 5500 | 100 | | -3.165 | 0.220 | -2.945 | 10.52 | Pass |
| 5600 | 120 | | -3.699 | 0.358 | -3.341 | | Pass |
| 5720 | 144 | | -2.856 | 0.220 | -2.636 | | Pass |
| 5745 | 149 | | 1.359 | 0.358 | 1.717 | 29.52 | Pass |
| 5785 | 157 | | 0.239 | 0.203 | 0.442 | | Pass |
| 5825 | 165 | | 0.265 | 0.358 | 0.623 | | Pass |

**Ant.1**

**▣ TEST RESULTS**

**Conducted Power Density Measurements**

| Frequency (MHz) | Channel No. | Mode | Test Result | | | | |
|---|---|---|---|---|---|---|---|
| | | | Measured Power Density (dBm) | Duty Cycle Factor (dB) | Measured Power Density(dBm) + Duty Cycle Factor | Limit (dBm) | Pass/Fail |
| 5180 | 36 | 802.11a (SISO) | 1.113 | 0.388 | 1.501 | 16.51 | Pass |
| 5200 | 40 | | 0.495 | 0.358 | 0.853 | | Pass |
| 5240 | 48 | | 0.909 | 0.388 | 1.297 | | Pass |
| 5260 | 52 | | -3.246 | 0.358 | -2.888 | 10.20 | Pass |
| 5300 | 60 | | -3.243 | 0.358 | -2.885 | | Pass |
| 5320 | 64 | | -3.333 | 0.358 | -2.975 | | Pass |
| 5500 | 100 | | -4.157 | 0.388 | -3.769 | 10.52 | Pass |
| 5600 | 120 | | -4.443 | 0.212 | -4.231 | | Pass |
| 5720 | 144 | | -3.239 | 0.388 | -2.851 | | Pass |
| 5745 | 149 | | -0.103 | 0.358 | 0.255 | 29.52 | Pass |
| 5785 | 157 | | 0.092 | 0.358 | 0.450 | | Pass |
| 5825 | 165 | | -0.405 | 0.358 | -0.047 | | Pass |

**Ant.2**

**▣ TEST RESULTS**

**Conducted Power Density Measurements**

| Frequency (MHz) | Channel No. | Mode | Test Result | | | | |
|---|---|---|---|---|---|---|---|
| | | | Measured Power Density (dBm) | Duty Cycle Factor (dB) | Measured Power Density(dBm) + Duty Cycle Factor | Limit (dBm) | Pass/Fail |
| 5180 | 36 | 802.11a (SISO) | 1.322 | 0.358 | 1.680 | 16.51 | Pass |
| 5200 | 40 | | 1.067 | 0.212 | 1.279 | | Pass |
| 5240 | 48 | | 1.389 | 0.358 | 1.747 | | Pass |
| 5260 | 52 | | -2.944 | 0.388 | -2.556 | 10.20 | Pass |
| 5300 | 60 | | -2.410 | 0.212 | -2.198 | | Pass |
| 5320 | 64 | | -2.604 | 0.215 | -2.389 | | Pass |
| 5500 | 100 | | -3.218 | 0.215 | -3.003 | 10.52 | Pass |
| 5600 | 120 | | -3.654 | 0.212 | -3.442 | | Pass |
| 5720 | 144 | | -3.181 | 0.358 | -2.823 | | Pass |
| 5745 | 149 | | 0.535 | 0.215 | 0.750 | 29.52 | Pass |
| 5785 | 157 | | 0.411 | 0.212 | 0.623 | | Pass |
| 5825 | 165 | | 0.038 | 0.212 | 0.250 | | Pass |

**Ant.3**

**▣ TEST RESULTS**

**Conducted Power Density Measurements**

| Frequency (MHz) | Channel No. | Mode | Test Result | | | | |
|---|---|---|---|---|---|---|---|
| | | | Measured Power Density (dBm) | Duty Cycle Factor (dB) | Measured Power Density(dBm) + Duty Cycle Factor | Limit (dBm) | Pass/Fail |
| 5180 | 36 | 802.11a (SISO) | 1.616 | 0.388 | 2.004 | 16.51 | Pass |
| 5200 | 40 | | 1.323 | 0.203 | 1.526 | | Pass |
| 5240 | 48 | | 2.029 | 0.212 | 2.241 | | Pass |
| 5260 | 52 | | -2.121 | 0.358 | -1.763 | 10.20 | Pass |
| 5300 | 60 | | -2.342 | 0.358 | -1.984 | | Pass |
| 5320 | 64 | | -2.418 | 0.388 | -2.030 | | Pass |
| 5500 | 100 | | -3.416 | 0.388 | -3.028 | 10.52 | Pass |
| 5600 | 120 | | -4.231 | 0.212 | -4.019 | | Pass |
| 5720 | 144 | | -3.562 | 0.388 | -3.174 | | Pass |
| 5745 | 149 | | 0.582 | 0.212 | 0.794 | 29.52 | Pass |
| 5785 | 157 | | 0.205 | 0.212 | 0.417 | | Pass |
| 5825 | 165 | | 0.473 | 0.203 | 0.676 | | Pass |

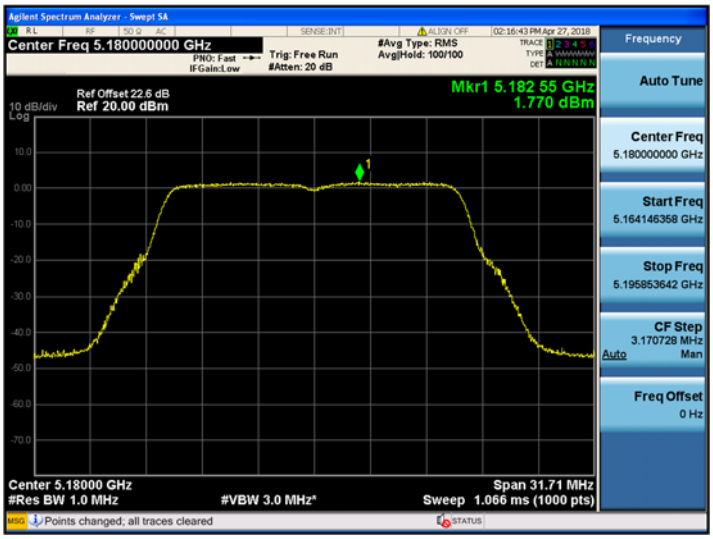
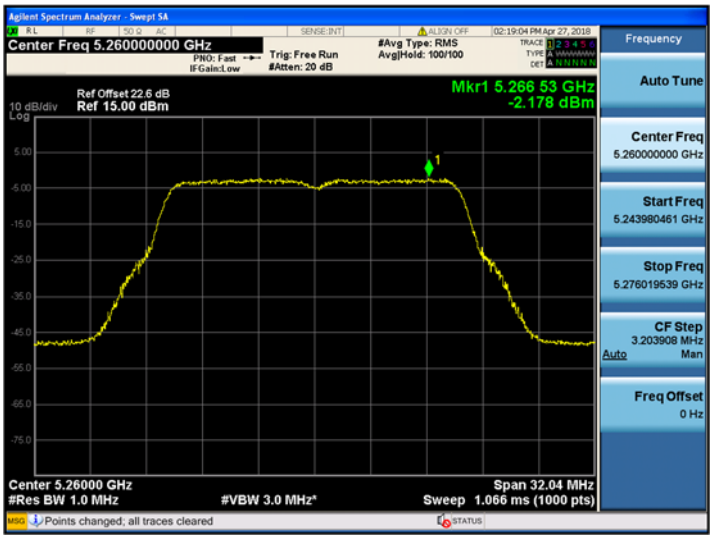
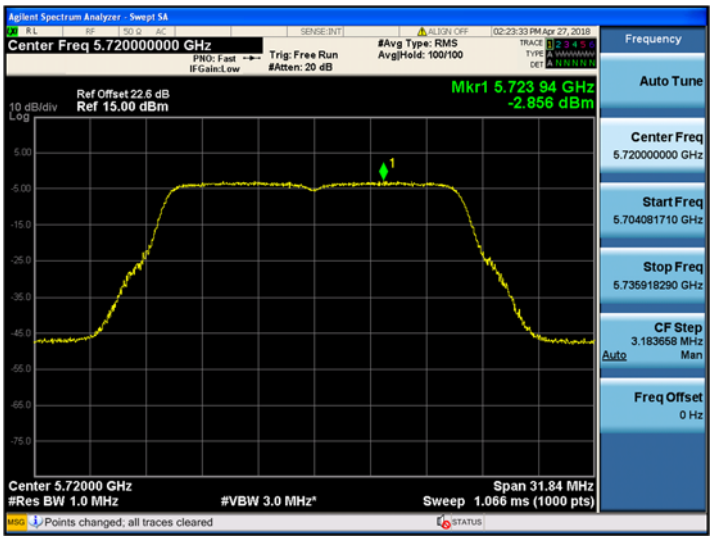
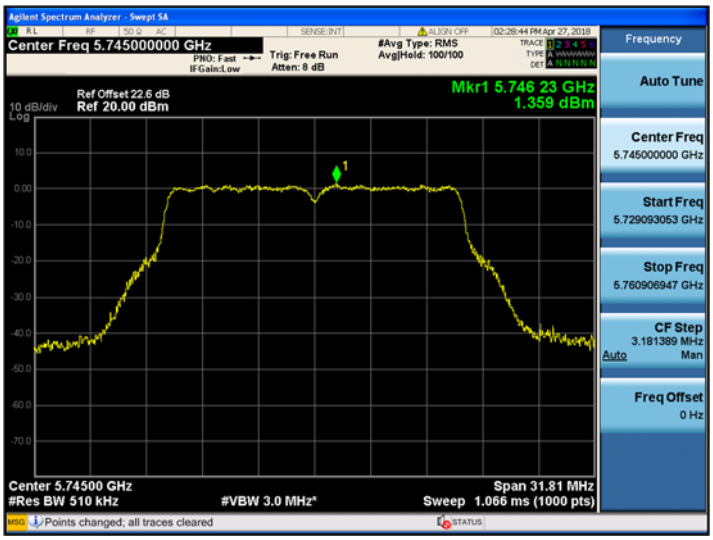
▣ **Sum Data of Ant.0 and Ant.1 and Ant.2 and Ant.3**

▣ **TEST RESULTS**

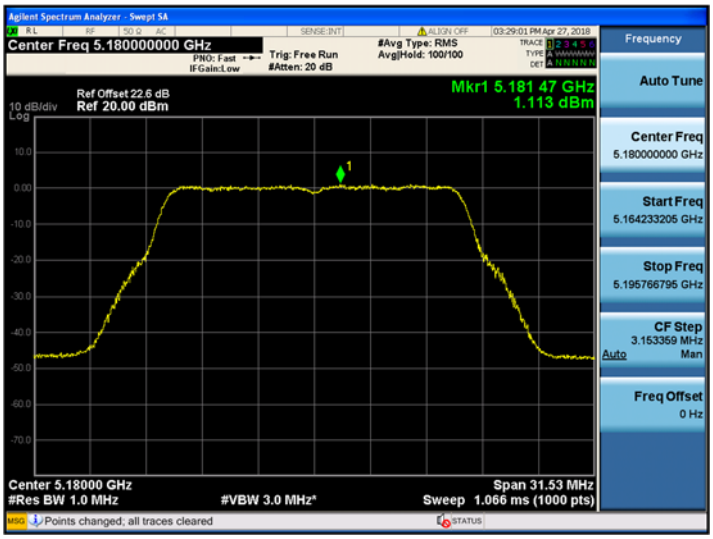
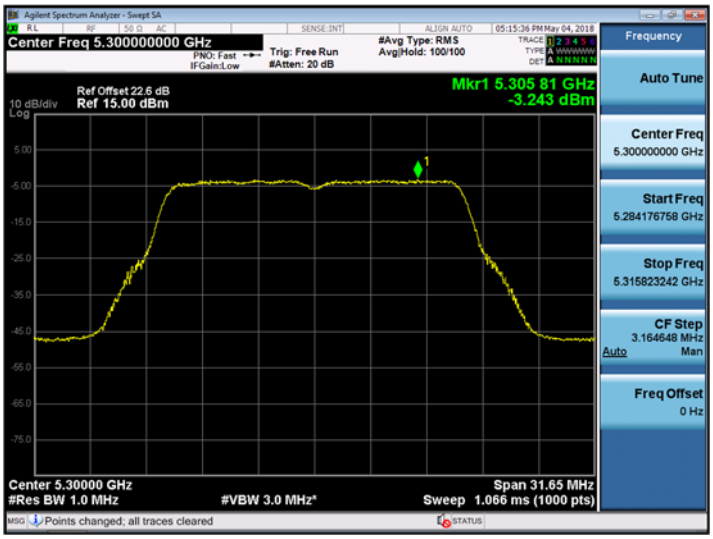
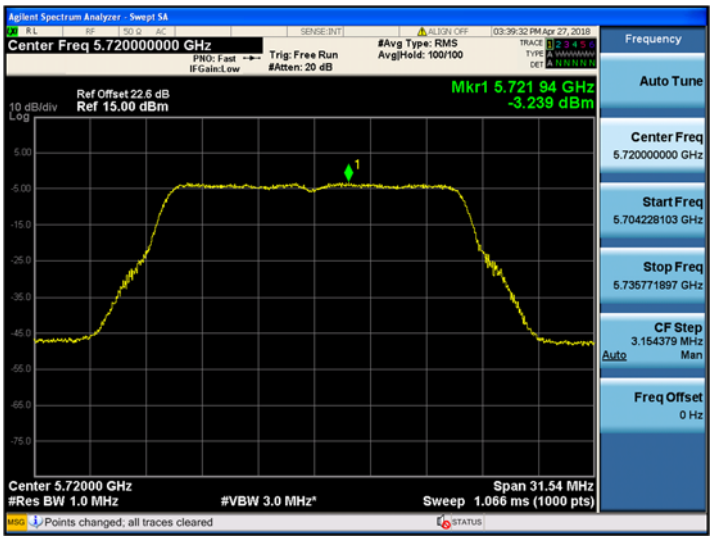
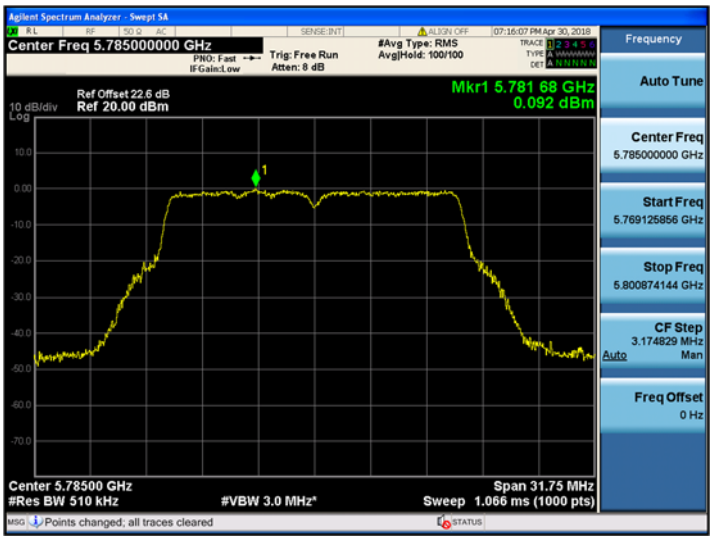
**Conducted Power Density Measurements**

| Frequency (MHz) | Channel No. | Mode | Test Result | | |
|---|---|---|---|---|---|
| | | | Measured Power Density (dBm) | Limit (dBm) | Pass/Fail |
| 5180 | 36 | 802.11a (MIMO) | 7.81 | 10.49 | Pass |
| 5200 | 40 | | 7.41 | | Pass |
| 5240 | 48 | | 7.78 | | Pass |
| 5260 | 52 | | 3.78 | 4.18 | Pass |
| 5300 | 60 | | 3.79 | | Pass |
| 5320 | 64 | | 3.67 | | Pass |
| 5500 | 100 | | 2.84 | 4.50 | Pass |
| 5600 | 120 | | 2.27 | | Pass |
| 5720 | 144 | | 3.15 | | Pass |
| 5745 | 149 | | 6.92 | 23.50 | Pass |
| 5785 | 157 | | 6.50 | | Pass |
| 5825 | 165 | | 6.40 | | Pass |

## ▣ TEST Plot for 802.11a 20MHz BW_Ant.0

| 802.11a UNII 1 BAND PSD CH 36 | 802.11a UNII 2A BAND PSD CH 52 |
|---|---|
|  |  |
| **802.11a UNII 2C BAND PSD CH 144** | **802.11a UNII 3 BAND PSD CH 149** |
|  |  |

## ▣ TEST Plot for 802.11a 20MHz BW_Ant.1

| 802.11a UNII 1 BAND PSD CH 36 | 802.11a UNII 2A BAND PSD CH 60 |
|---|---|
|  |  |
| **802.11a UNII 2C BAND PSD CH 144** | **802.11a UNII 3 BAND PSD CH 157** |
|  |  |