

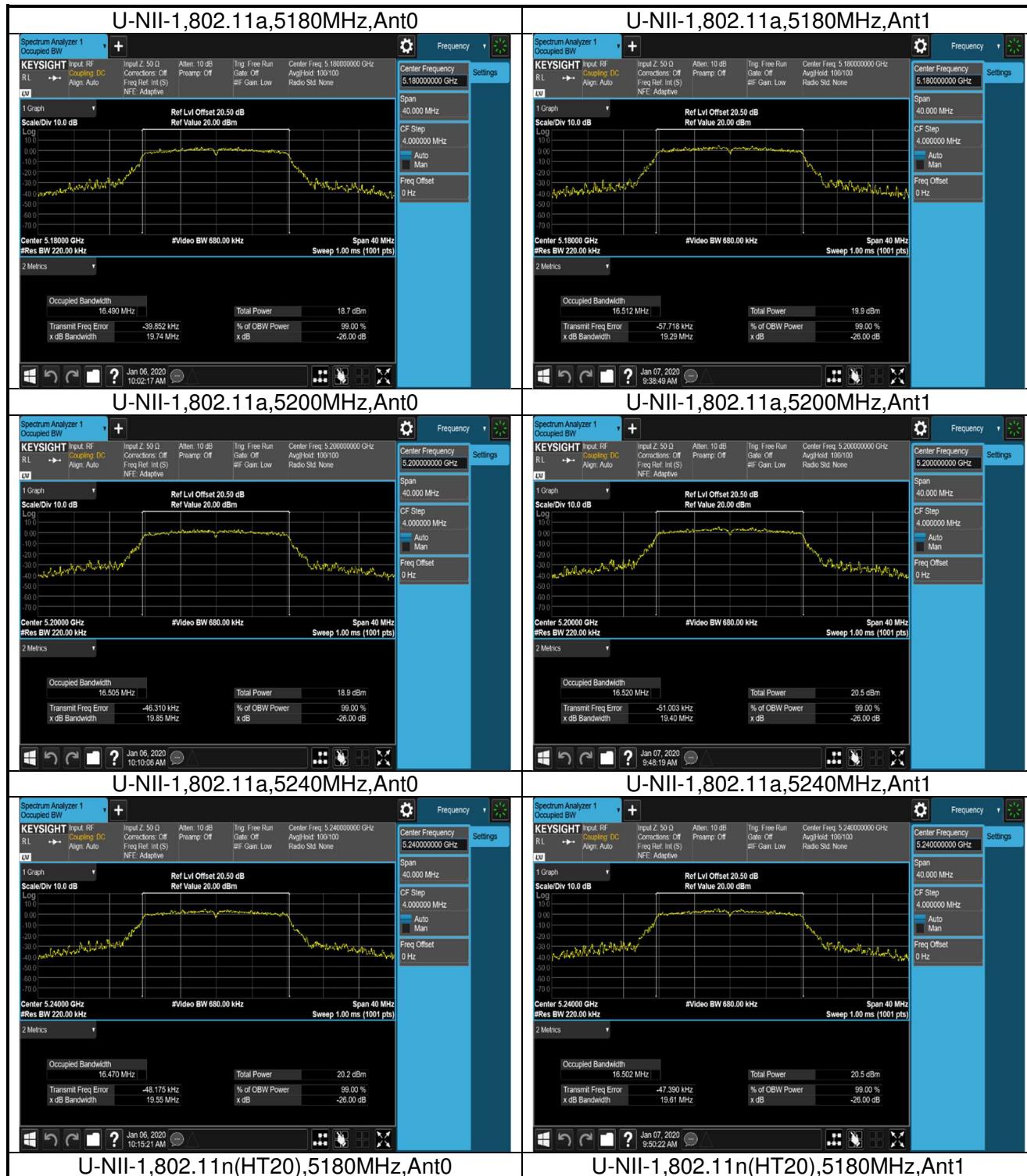
Appendix A: Test results

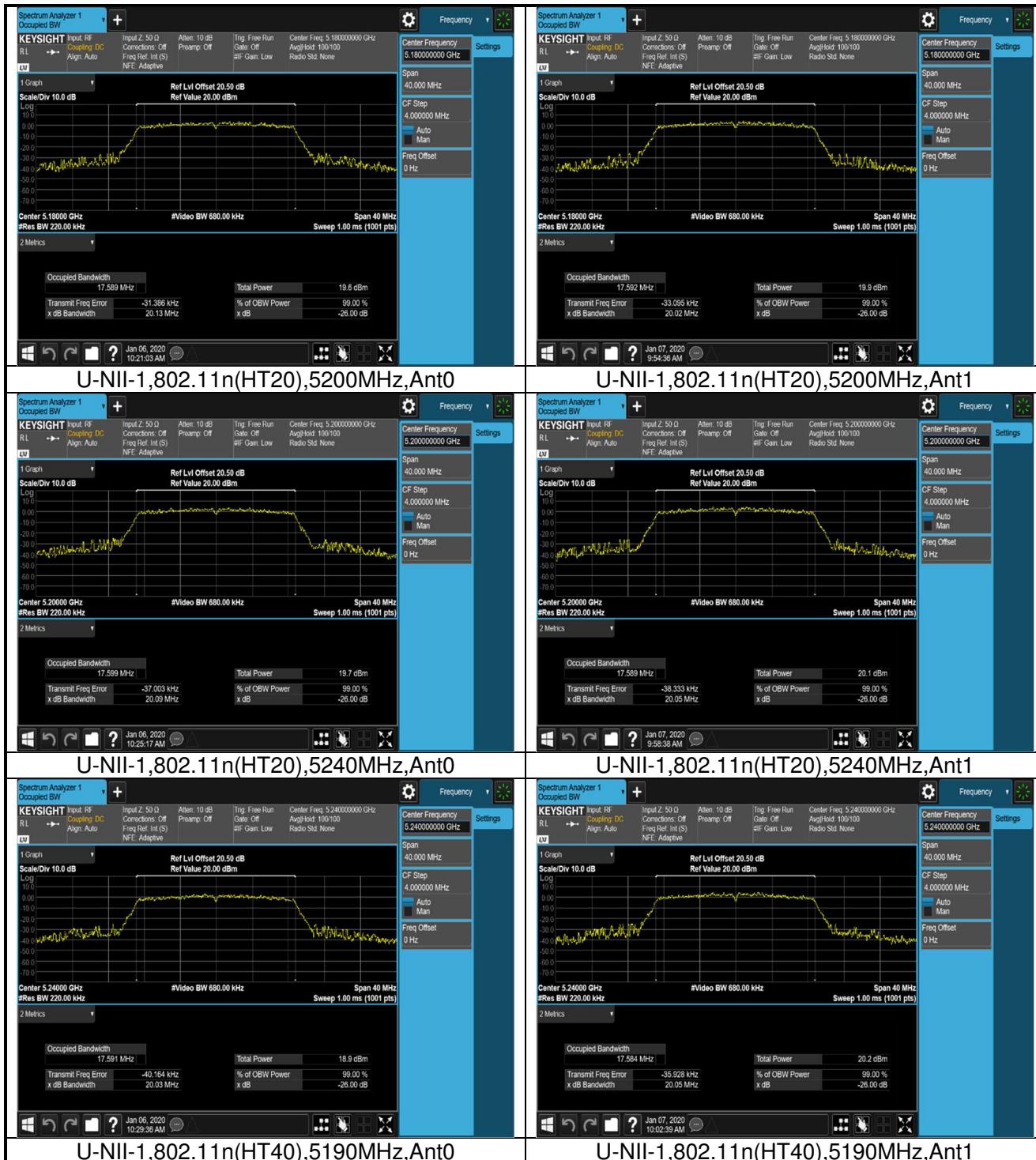
1. Occupied 26dB Bandwidth

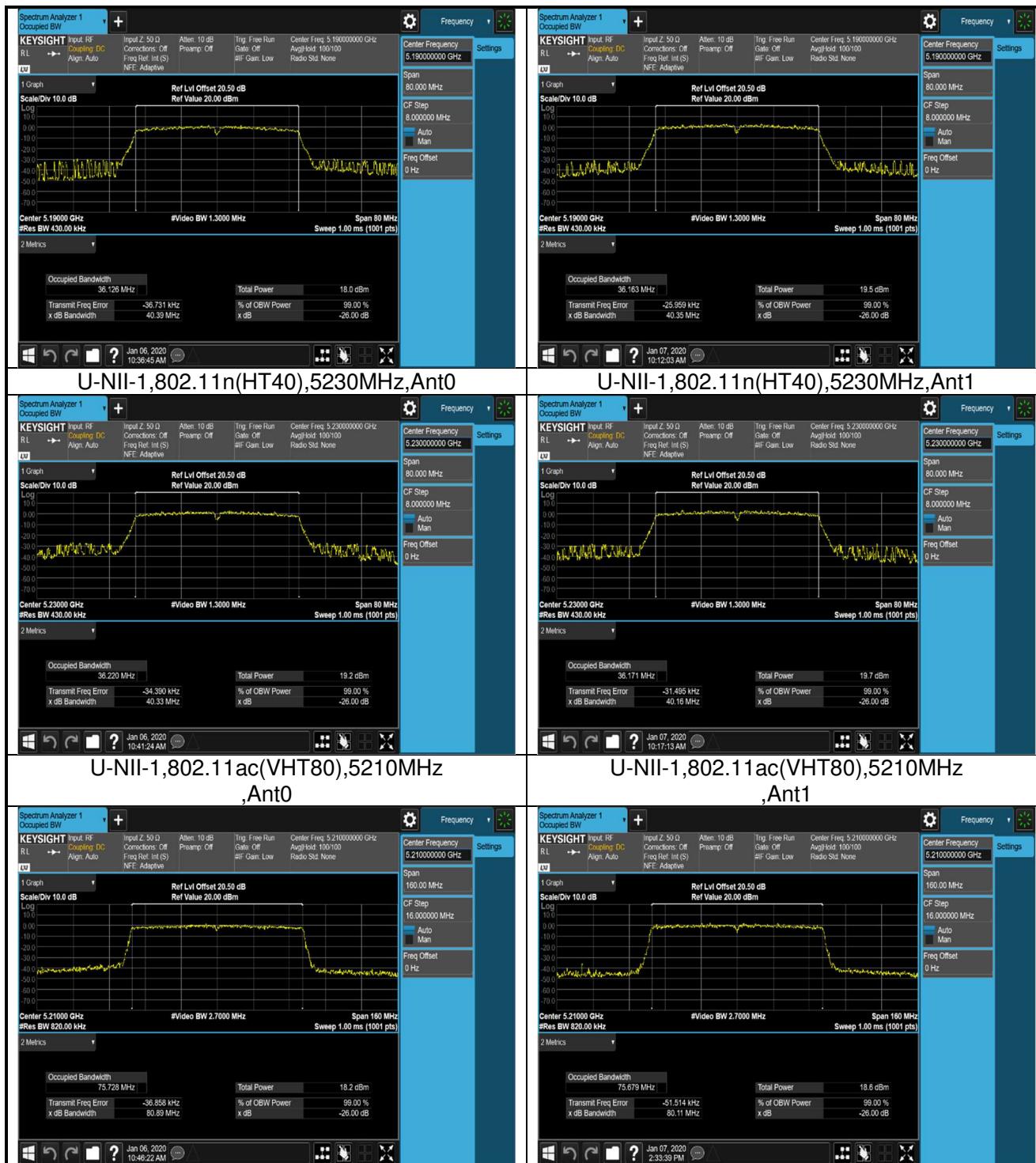
1.1 Test Data

| U-NII-1 Occupied 26dB Bandwidth | | | | |
|---------------------------------|----------------------|------|--------------------------|--------|
| Mode | Test Frequency (MHz) | Ant | Occupied Bandwidth (MHz) | Result |
| 802.11a | 5180 | Ant0 | 19.74 | Pass |
| 802.11a | 5180 | Ant1 | 19.29 | Pass |
| 802.11a | 5200 | Ant0 | 19.85 | Pass |
| 802.11a | 5200 | Ant1 | 19.40 | Pass |
| 802.11a | 5240 | Ant0 | 19.55 | Pass |
| 802.11a | 5240 | Ant1 | 19.61 | Pass |
| 802.11n (HT20) | 5180 | Ant0 | 20.13 | Pass |
| 802.11n (HT20) | 5180 | Ant1 | 20.02 | Pass |
| 802.11n (HT20) | 5200 | Ant0 | 20.09 | Pass |
| 802.11n (HT20) | 5200 | Ant1 | 20.05 | Pass |
| 802.11n (HT20) | 5240 | Ant0 | 20.03 | Pass |
| 802.11n (HT20) | 5240 | Ant1 | 20.05 | Pass |
| 802.11n (HT40) | 5190 | Ant0 | 40.39 | Pass |
| 802.11n (HT40) | 5190 | Ant1 | 40.35 | Pass |
| 802.11n (HT40) | 5230 | Ant0 | 40.33 | Pass |
| 802.11n (HT40) | 5230 | Ant1 | 40.16 | Pass |
| 802.11ac (VHT80) | 5210 | Ant0 | 80.89 | Pass |
| 802.11ac (VHT80) | 5210 | Ant1 | 80.11 | Pass |

1.2 Test Plots





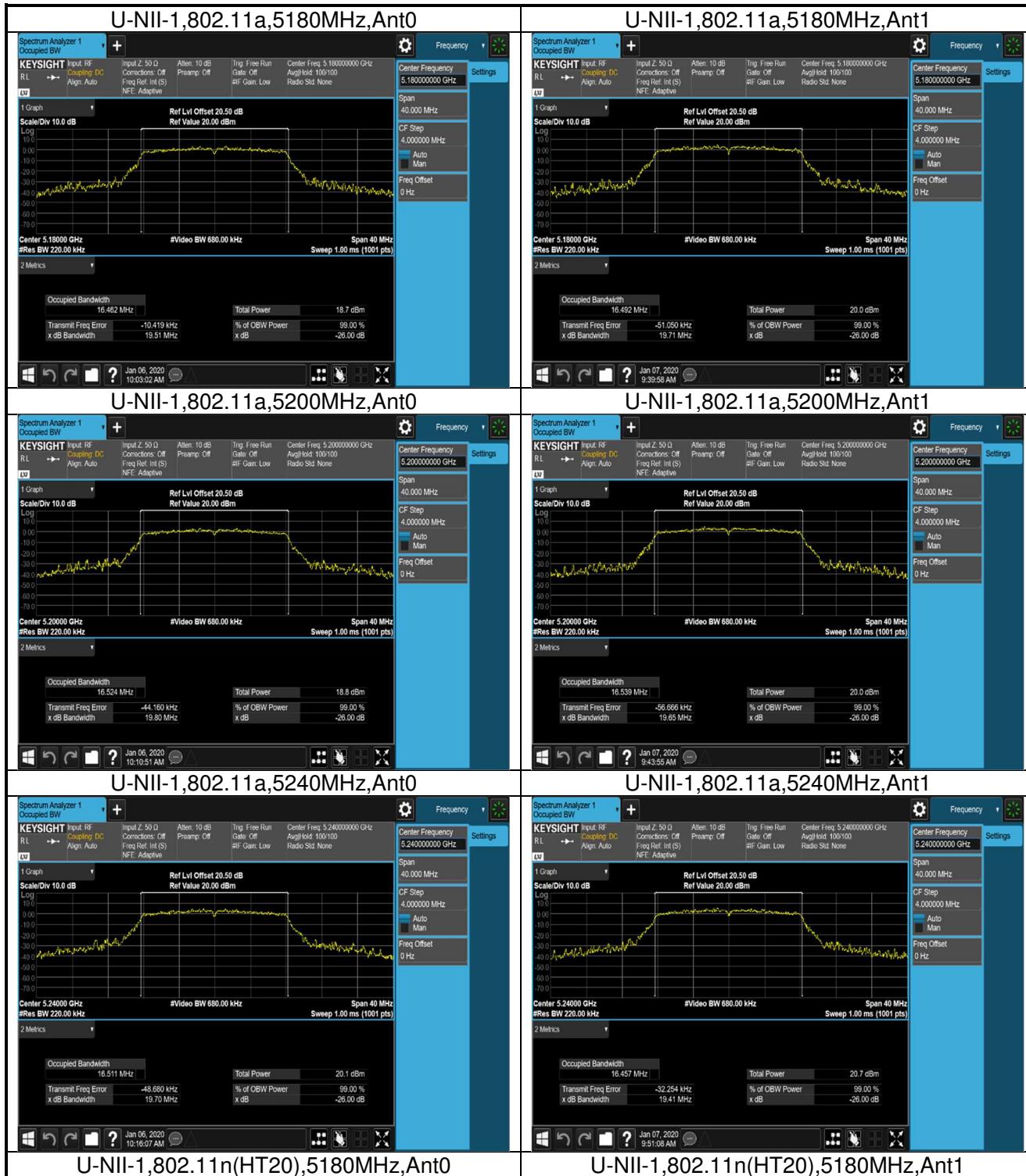


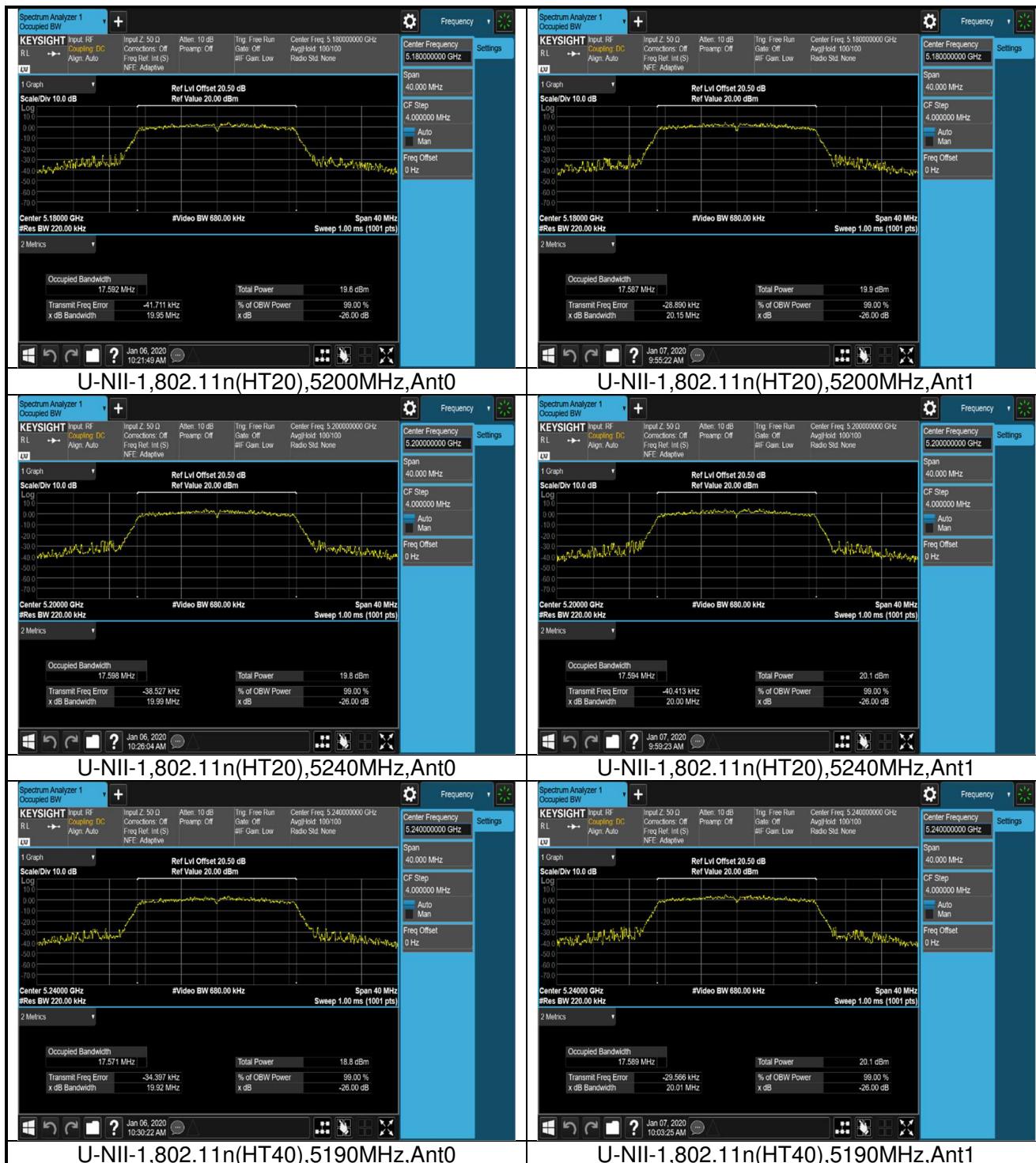
2. 99% Occupied Bandwidth

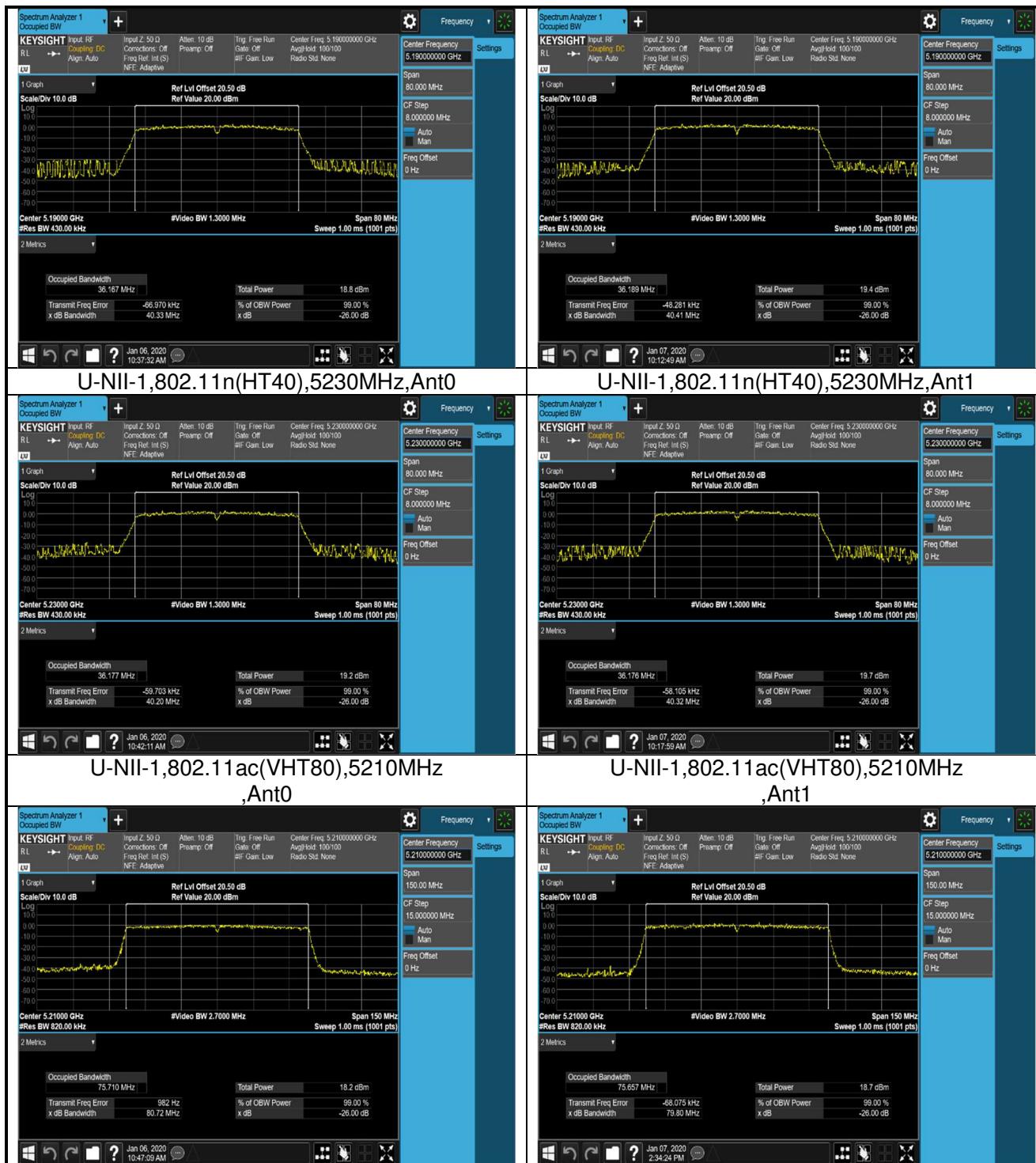
2.1 Test Data

| U-NII-1 99% Occupied Bandwidth | | | | |
|--------------------------------|----------------------|------|------------------------------|--------|
| Mode | Test Frequency (MHz) | Ant | 99% Occupied Bandwidth (MHz) | Result |
| 802.11a | 5180 | Ant0 | 16.462 | Pass |
| 802.11a | 5180 | Ant1 | 16.492 | Pass |
| 802.11a | 5200 | Ant0 | 16.524 | Pass |
| 802.11a | 5200 | Ant1 | 16.539 | Pass |
| 802.11a | 5240 | Ant0 | 16.511 | Pass |
| 802.11a | 5240 | Ant1 | 16.457 | Pass |
| 802.11n (HT20) | 5180 | Ant0 | 17.592 | Pass |
| 802.11n (HT20) | 5180 | Ant1 | 17.587 | Pass |
| 802.11n (HT20) | 5200 | Ant0 | 17.598 | Pass |
| 802.11n (HT20) | 5200 | Ant1 | 17.594 | Pass |
| 802.11n (HT20) | 5240 | Ant0 | 17.571 | Pass |
| 802.11n (HT20) | 5240 | Ant1 | 17.589 | Pass |
| 802.11n (HT40) | 5190 | Ant0 | 36.167 | Pass |
| 802.11n (HT40) | 5190 | Ant1 | 36.189 | Pass |
| 802.11n (HT40) | 5230 | Ant0 | 36.177 | Pass |
| 802.11n (HT40) | 5230 | Ant1 | 36.176 | Pass |
| 802.11ac (VHT80) | 5210 | Ant0 | 75.710 | Pass |
| 802.11ac (VHT80) | 5210 | Ant1 | 75.657 | Pass |

2.2 Test Plots





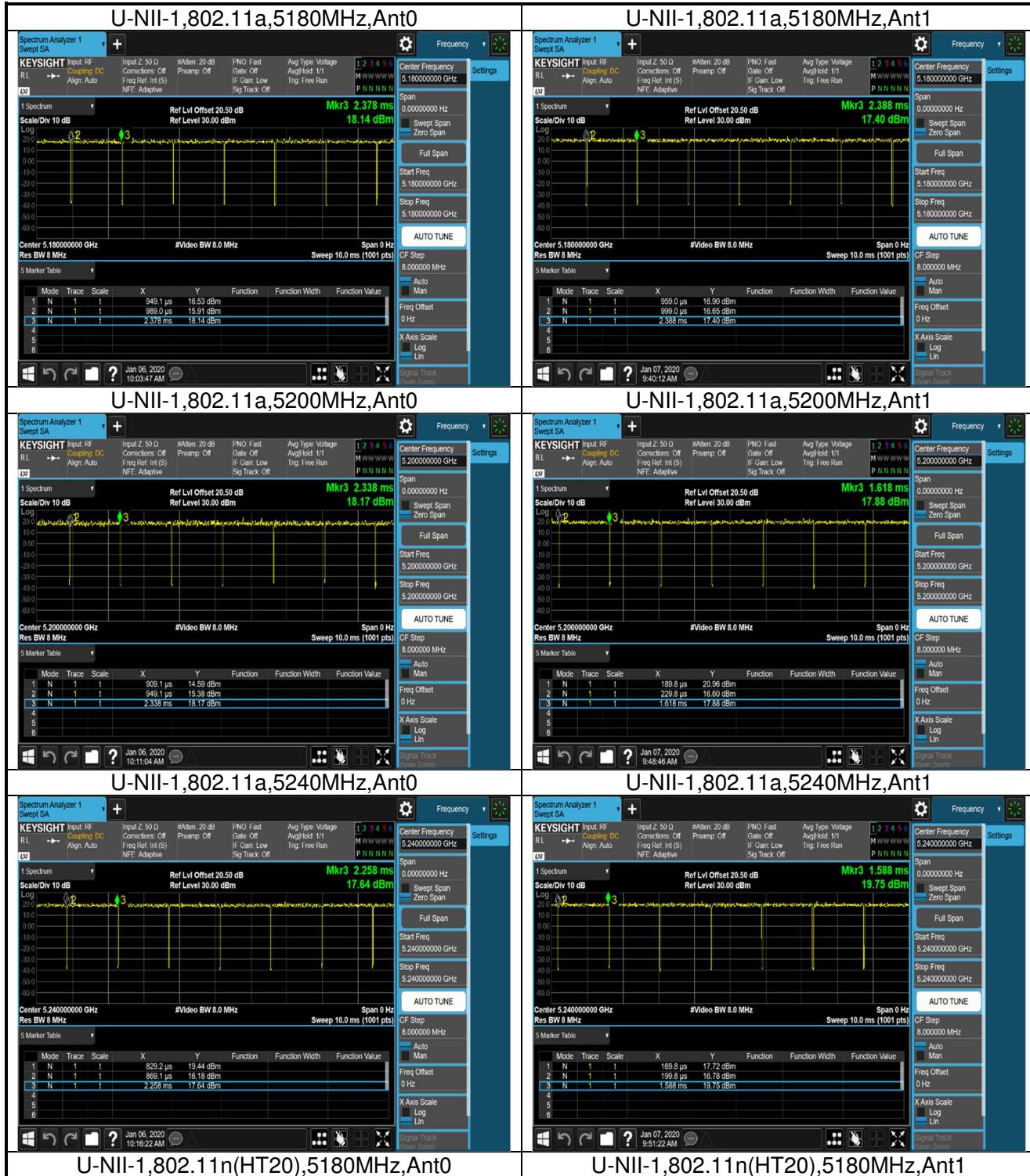


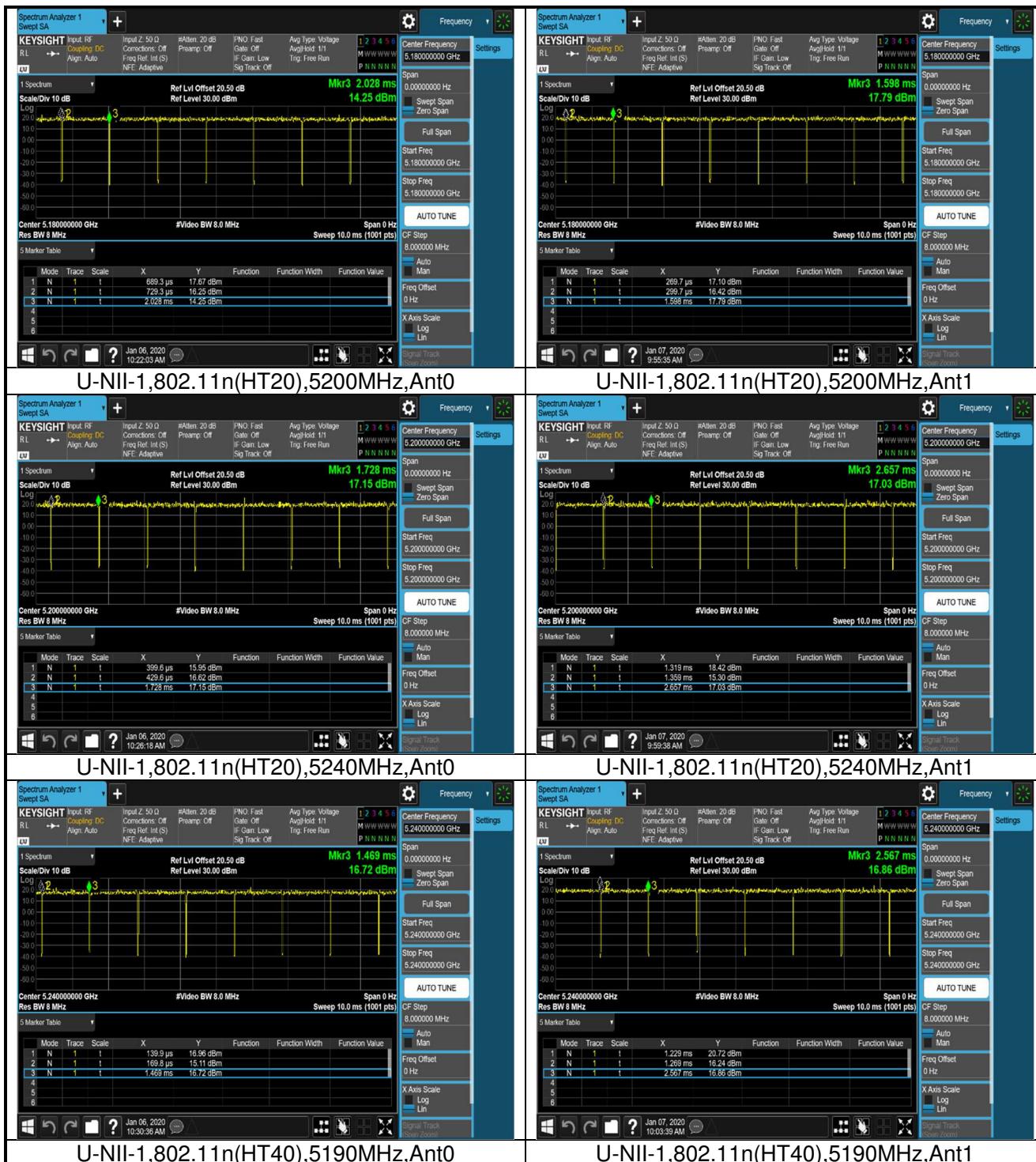
3. Duty Cycle

3.1 Test Data

| U-NII-1 Duty Cycle | | | | |
|--------------------|----------------------|------|----------------|------------------------|
| Mode | Test Frequency (MHz) | Ant | Duty Cycle (%) | Duty Cycle Factor (dB) |
| 802.11a | 5180 | Ant0 | 97.20 | 0.12 |
| 802.11a | 5180 | Ant1 | 97.20 | 0.12 |
| 802.11a | 5200 | Ant0 | 97.20 | 0.12 |
| 802.11a | 5200 | Ant1 | 97.20 | 0.12 |
| 802.11a | 5240 | Ant0 | 97.20 | 0.12 |
| 802.11a | 5240 | Ant1 | 97.89 | 0.09 |
| 802.11n (HT20) | 5180 | Ant0 | 97.01 | 0.13 |
| 802.11n (HT20) | 5180 | Ant1 | 97.74 | 0.10 |
| 802.11n (HT20) | 5200 | Ant0 | 97.74 | 0.10 |
| 802.11n (HT20) | 5200 | Ant1 | 97.01 | 0.13 |
| 802.11n (HT20) | 5240 | Ant0 | 97.74 | 0.10 |
| 802.11n (HT20) | 5240 | Ant1 | 97.01 | 0.13 |
| 802.11n (HT40) | 5190 | Ant0 | 94.12 | 0.26 |
| 802.11n (HT40) | 5190 | Ant1 | 94.20 | 0.26 |
| 802.11n (HT40) | 5230 | Ant0 | 94.20 | 0.26 |
| 802.11n (HT40) | 5230 | Ant1 | 95.59 | 0.20 |
| 802.11ac (VHT80) | 5210 | Ant0 | 84.34 | 0.74 |
| 802.11ac (VHT80) | 5210 | Ant1 | 84.34 | 0.74 |

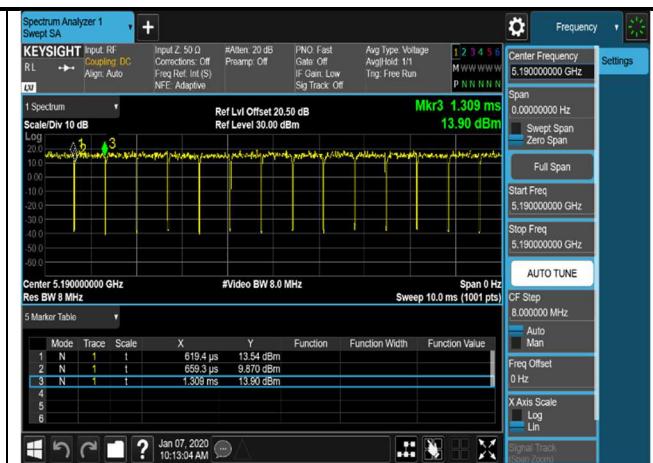
3.2 Test Plots







U-NII-1,802.11n(HT40),5230MHz,Ant0



U-NII-1,802.11n(HT40),5230MHz,Ant1


U-NII-1,802.11ac(VHT80),5210MHz
,Ant0

U-NII-1,802.11ac(VHT80),5210MHz
,Ant1


4. AVGSA Output Power

4.1 Test Data

| U-NII-1 AVGSA Output Power | | | | | | | | | |
|----------------------------|----------------------|------|------------------------|-----------------|-------------------|-----------------------|------------|---------------------|--------|
| Mode | Test Frequency (MHz) | Ant | Duty Cycle Factor (dB) | Max Power (dBm) | Total Power (dBm) | FCC Power Limit (dBm) | EIRP (dBm) | IC EIRP Limit (dBm) | Result |
| 802.11a | 5180 | Ant0 | 0.12 | 14.26 | 14.26 | 24 | 15.87 | 22 | Pass |
| 802.11a | 5180 | Ant1 | 0.12 | 14.42 | 14.42 | 24 | 14.57 | 22 | Pass |
| 802.11a | 5200 | Ant0 | 0.12 | 13.06 | 13.06 | 24 | 14.67 | 22 | Pass |
| 802.11a | 5200 | Ant1 | 0.12 | 14.81 | 14.81 | 24 | 14.96 | 22 | Pass |
| 802.11a | 5240 | Ant0 | 0.12 | 14.50 | 14.50 | 24 | 16.11 | 22 | Pass |
| 802.11a | 5240 | Ant1 | 0.09 | 14.87 | 14.87 | 24 | 15.02 | 22 | Pass |
| 802.11n (HT20) | 5180 | Ant0 | 0.13 | 13.77 | 16.93 | 24 | 17.87 | 22 | Pass |
| 802.11n (HT20) | 5180 | Ant1 | 0.10 | 14.06 | | | | | |
| 802.11n (HT20) | 5200 | Ant0 | 0.10 | 13.94 | 17.12 | 24 | 18.06 | 22 | Pass |
| 802.11n (HT20) | 5200 | Ant1 | 0.13 | 14.27 | | | | | |
| 802.11n (HT20) | 5240 | Ant0 | 0.10 | 12.90 | 16.65 | 24 | 17.60 | 22 | Pass |
| 802.11n (HT20) | 5240 | Ant1 | 0.13 | 14.28 | | | | | |
| 802.11n (HT40) | 5190 | Ant0 | 0.26 | 13.22 | 16.46 | 24 | 17.40 | 23 | Pass |
| 802.11n (HT40) | 5190 | Ant1 | 0.26 | 13.67 | | | | | |
| 802.11n (HT40) | 5230 | Ant0 | 0.26 | 13.36 | 16.54 | 24 | 17.49 | 23 | Pass |
| 802.11n (HT40) | 5230 | Ant1 | 0.20 | 13.70 | | | | | |
| 802.11ac VHT80) | 5210 | Ant0 | 0.74 | 9.95 | 12.90 | 24 | 13.84 | 23 | Pass |
| 802.11ac VHT80) | 5210 | Ant1 | 0.75 | 9.83 | | | | | |

4.2 Test Plots

