

Appendix D: Test Results for U-NII Band 3

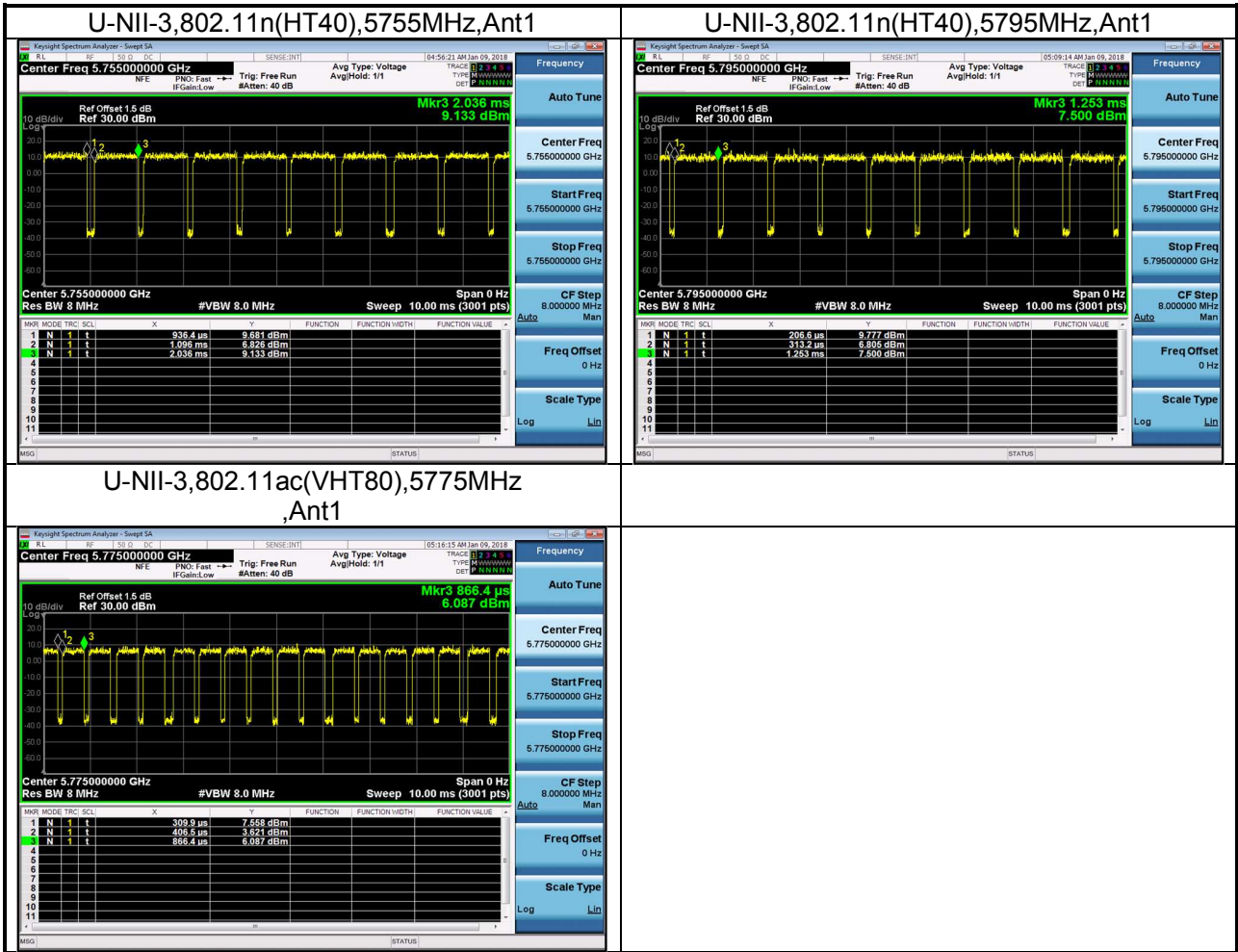
1 Duty Cycle

1.1 Test Data

| U-NII-3 Duty Cycle | | | | |
|--------------------|---------------------|------|---------------|------------------------|
| Mode | Test Frequency(MHz) | Ant | Duty Cycle(%) | Duty Cycle Factor (dB) |
| 802.11a | 5745 | Ant1 | 95.05 | 0.22 |
| 802.11a | 5785 | Ant1 | 92.05 | 0.36 |
| 802.11a | 5825 | Ant1 | 92.61 | 0.33 |
| 802.11n(HT20) | 5745 | Ant1 | 94.71 | 0.24 |
| 802.11n(HT20) | 5785 | Ant1 | 94.70 | 0.24 |
| 802.11n(HT20) | 5825 | Ant1 | 94.71 | 0.24 |
| 802.11n(HT40) | 5755 | Ant1 | 85.45 | 0.68 |
| 802.11n(HT40) | 5795 | Ant1 | 89.81 | 0.47 |
| 802.11ac(VHT80) | 5775 | Ant1 | 82.63 | 0.83 |

1.2 Test Plots



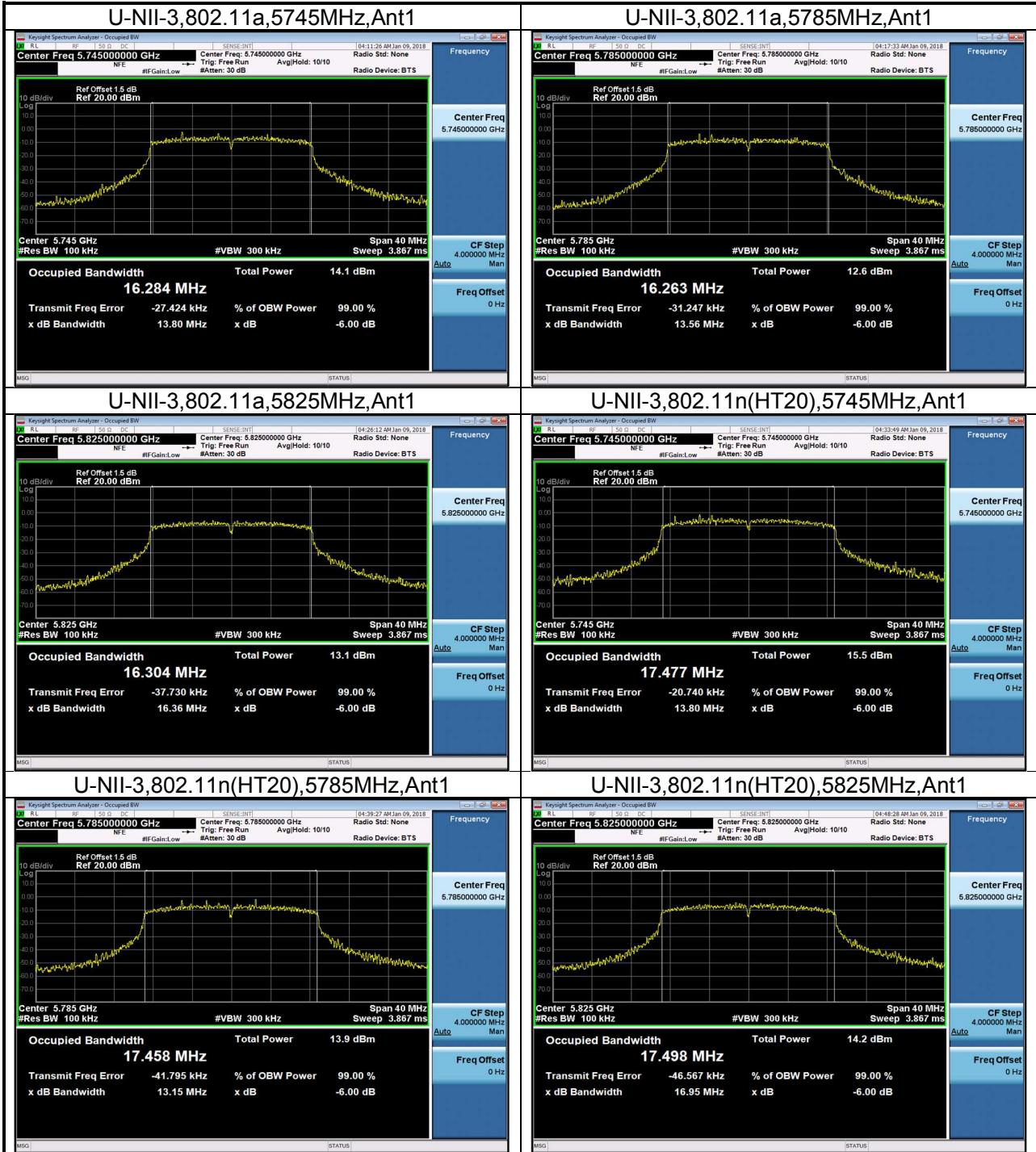


2 6 dB Bandwidth

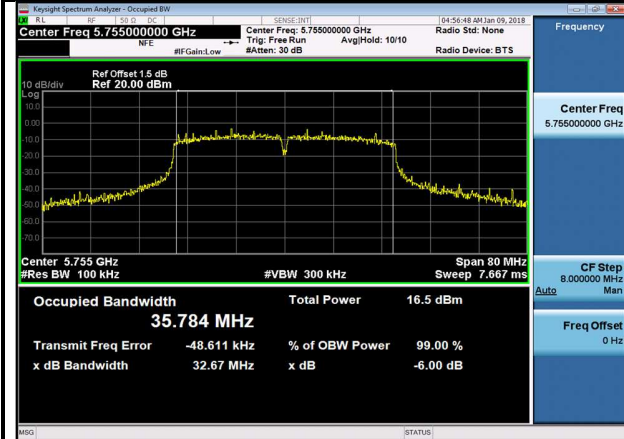
2.1 Test Data

| U-NII-3 6 dB Bandwidth | | | | |
|------------------------|---------------------|------|--------------------|--------|
| Mode | Test Frequency(MHz) | Ant | 6dB Bandwidth(MHz) | Result |
| 802.11a | 5745 | Ant1 | 13.80 | Pass |
| 802.11a | 5785 | Ant1 | 13.56 | Pass |
| 802.11a | 5825 | Ant1 | 16.36 | Pass |
| 802.11n(HT20) | 5745 | Ant1 | 13.80 | Pass |
| 802.11n(HT20) | 5785 | Ant1 | 13.15 | Pass |
| 802.11n(HT20) | 5825 | Ant1 | 16.95 | Pass |
| 802.11n(HT40) | 5755 | Ant1 | 32.67 | Pass |
| 802.11n(HT40) | 5795 | Ant1 | 35.11 | Pass |
| 802.11ac(VHT80) | 5775 | Ant1 | 70.06 | Pass |

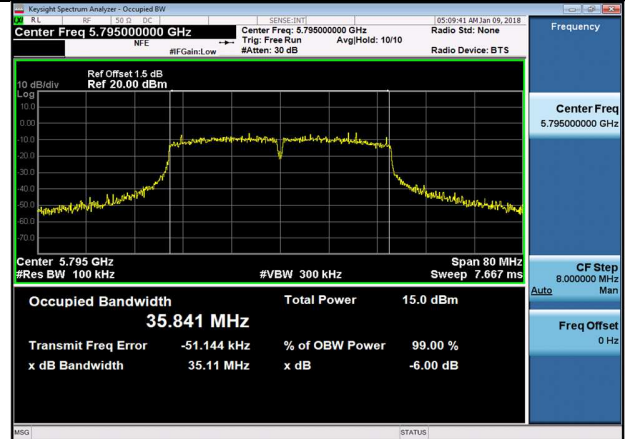
2.2 Test Plots



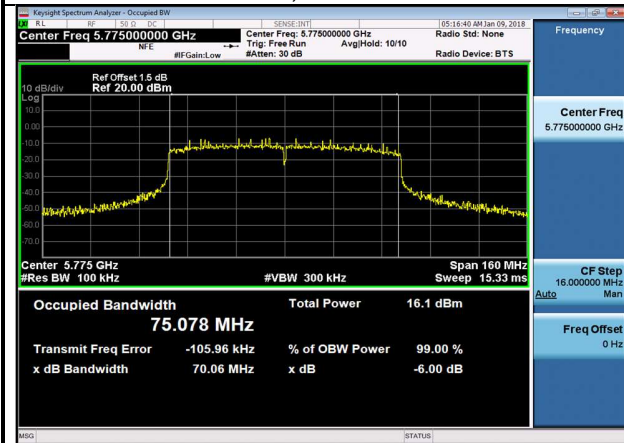
U-NII-3,802.11n(HT40),5755MHz,Ant1



U-NII-3,802.11n(HT40),5795MHz,Ant1



U-NII-3,802.11ac(VHT80),5775MHz,Ant1

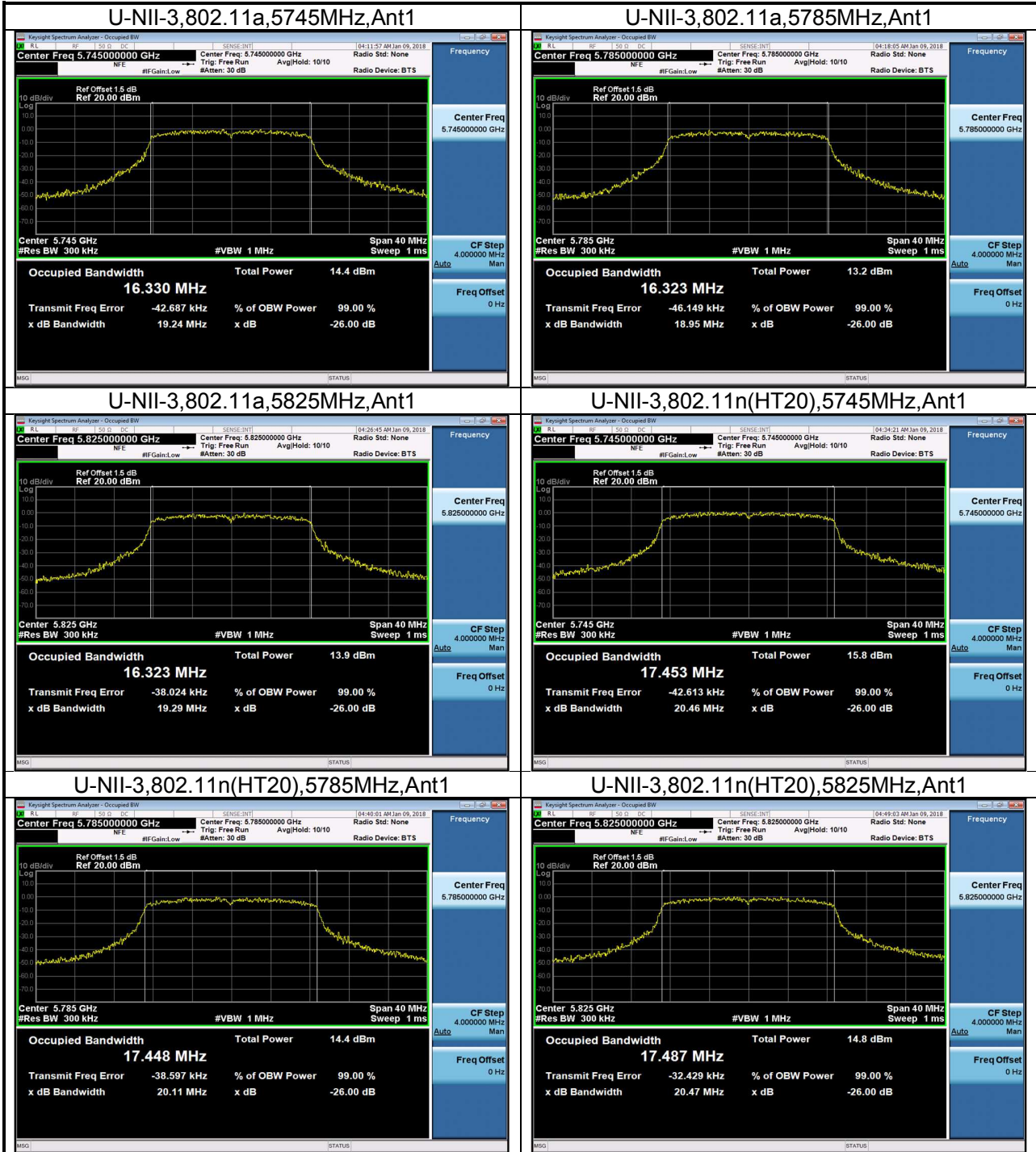


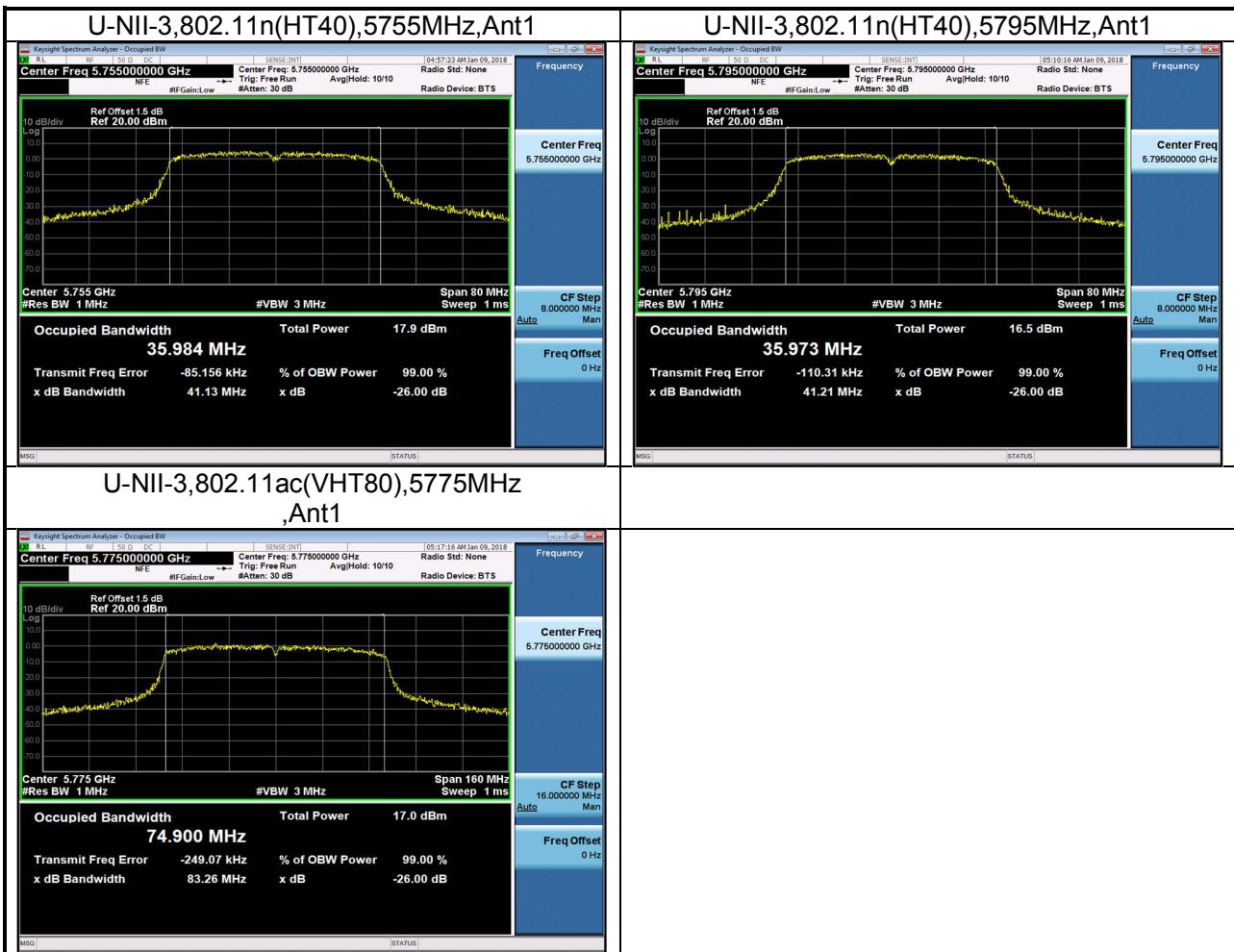
3 99% Occupied Bandwidth

3.1 Test Data

| U-NII-3 99% Occupied Bandwidth | | | | |
|--------------------------------|---------------------|------|-----------------------------|--------|
| Mode | Test Frequency(MHz) | Ant | 99% Occupied Bandwidth(MHz) | Result |
| 802.11a | 5745 | Ant1 | 16.330 | Pass |
| 802.11a | 5785 | Ant1 | 16.323 | Pass |
| 802.11a | 5825 | Ant1 | 16.323 | Pass |
| 802.11n(HT20) | 5745 | Ant1 | 17.453 | Pass |
| 802.11n(HT20) | 5785 | Ant1 | 17.448 | Pass |
| 802.11n(HT20) | 5825 | Ant1 | 17.487 | Pass |
| 802.11n(HT40) | 5755 | Ant1 | 35.984 | Pass |
| 802.11n(HT40) | 5795 | Ant1 | 35.973 | Pass |
| 802.11ac(VHT80) | 5775 | Ant1 | 74.900 | Pass |

3.2 Test Plots



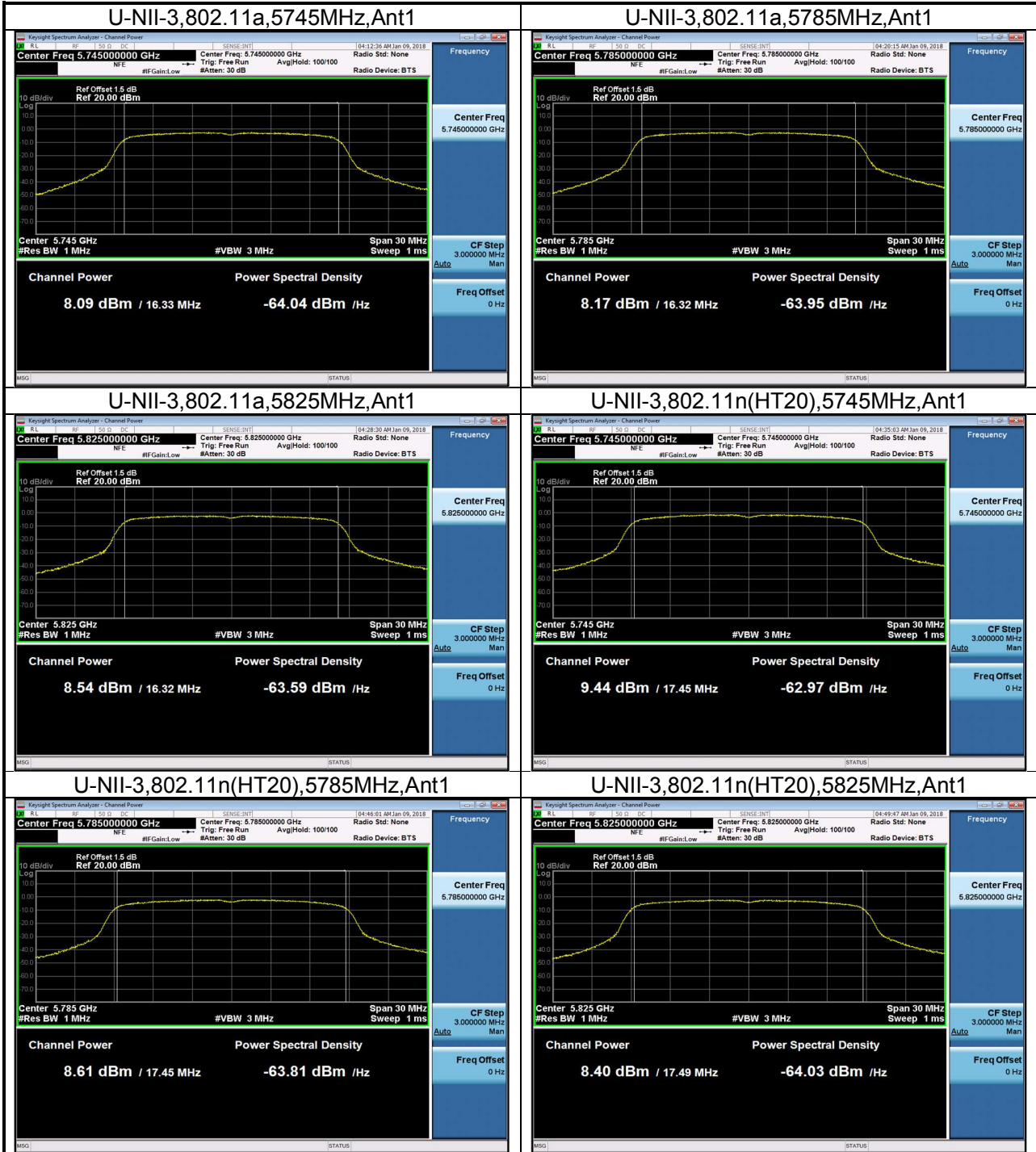


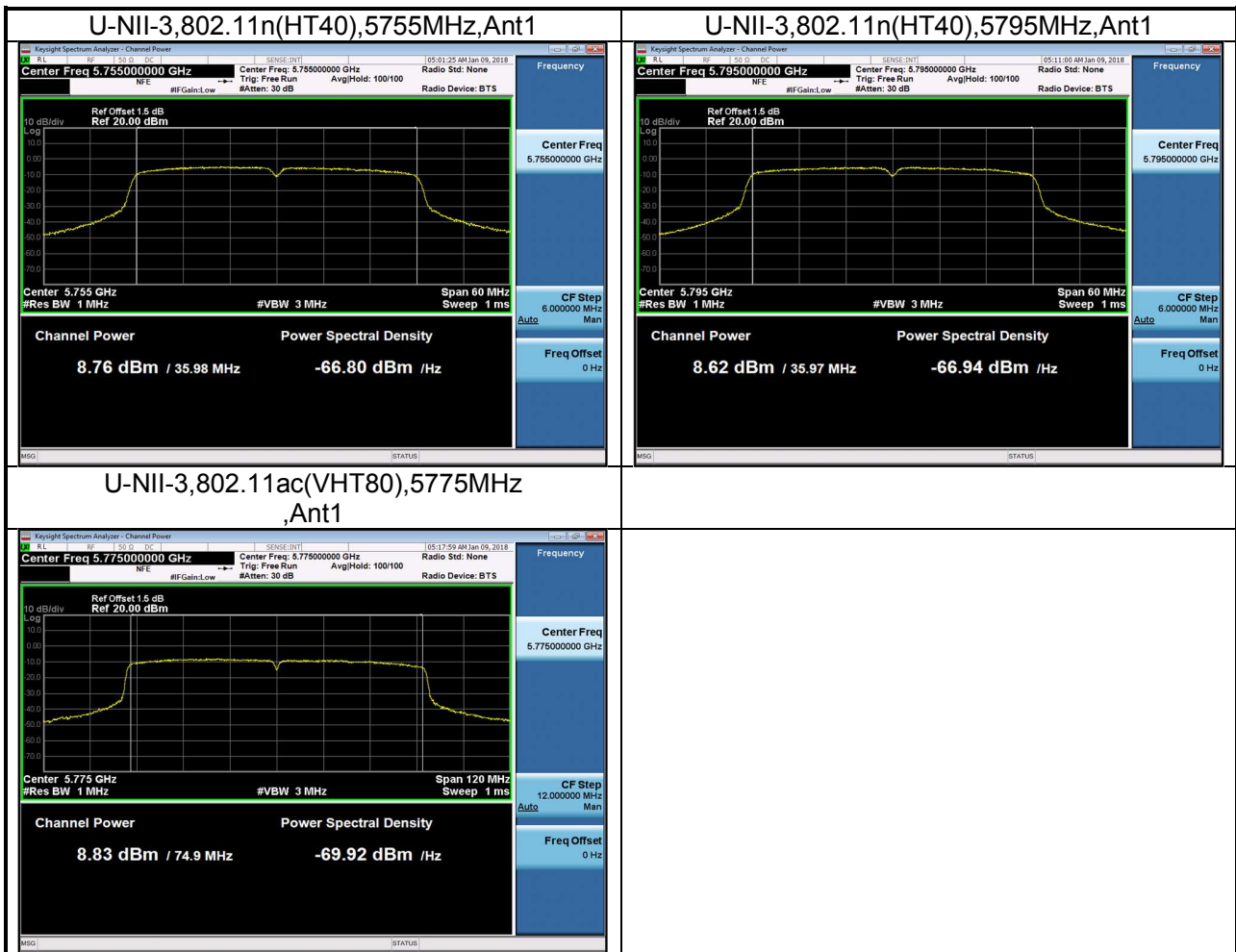
4 AVGSA Output Power

4.1 Test Data

| U-NII-3 AVGSA Output Power | | | | | | | |
|----------------------------|---------------------|------|------------------------|-----------------|-------------|------------|--------|
| Mode | Test Frequency(MHz) | Ant | Duty Cycle Factor (dB) | Max Power (dBm) | Limit (dBm) | EIRP (dBm) | Result |
| 802.11a | 5745 | Ant1 | 0.22 | 8.31 | 30 | 12.81 | Pass |
| 802.11a | 5785 | Ant1 | 0.36 | 8.53 | 30 | 13.03 | Pass |
| 802.11a | 5825 | Ant1 | 0.33 | 8.87 | 30 | 13.37 | Pass |
| 802.11n(HT20) | 5745 | Ant1 | 0.24 | 9.68 | 30 | 14.18 | Pass |
| 802.11n(HT20) | 5785 | Ant1 | 0.24 | 8.85 | 30 | 13.35 | Pass |
| 802.11n(HT20) | 5825 | Ant1 | 0.24 | 8.64 | 30 | 13.14 | Pass |
| 802.11n(HT40) | 5755 | Ant1 | 0.68 | 9.44 | 30 | 13.94 | Pass |
| 802.11n(HT40) | 5795 | Ant1 | 0.47 | 9.09 | 30 | 13.59 | Pass |
| 802.11ac(VHT80) | 5775 | Ant1 | 0.83 | 9.66 | 30 | 14.16 | Pass |

4.2 Test Plots





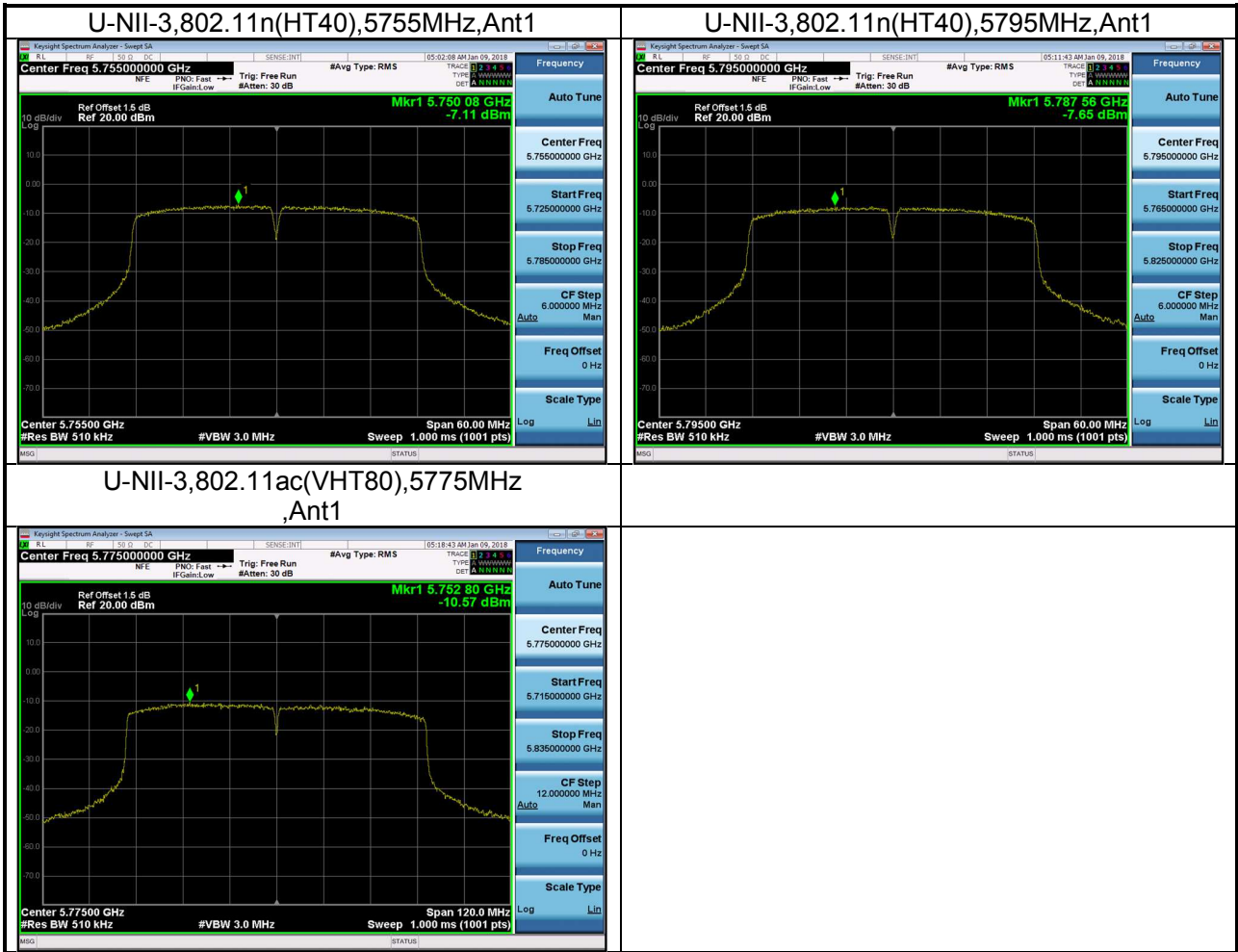
5 AVGSA Power Spectral Density

5.1 Test Data

| U-NII-3 AVGSA Power Spectral Density | | | | | | | |
|--------------------------------------|----------------------|------|-----------------------|----------|----------|------------|--------|
| Mode | Test Frequency (MHz) | Ant | Duty Cycle Factor(dB) | PSD(dBm) | RBW(kHz) | Limit(dBm) | Result |
| 802.11a | 5745 | Ant1 | 0.22 | -5.012 | 510 | 30 | Pass |
| 802.11a | 5785 | Ant1 | 0.36 | -4.515 | 510 | 30 | Pass |
| 802.11a | 5825 | Ant1 | 0.33 | -4.415 | 510 | 30 | Pass |
| 802.11n(HT20) | 5745 | Ant1 | 0.24 | -3.309 | 510 | 30 | Pass |
| 802.11n(HT20) | 5785 | Ant1 | 0.24 | -4.338 | 510 | 30 | Pass |
| 802.11n(HT20) | 5825 | Ant1 | 0.24 | -4.734 | 510 | 30 | Pass |
| 802.11n(HT40) | 5755 | Ant1 | 0.68 | -6.427 | 510 | 30 | Pass |
| 802.11n(HT40) | 5795 | Ant1 | 0.47 | -7.181 | 510 | 30 | Pass |
| 802.11ac(VHT80) | 5775 | Ant1 | 0.83 | -9.744 | 510 | 30 | Pass |

5.2 Test Plots





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