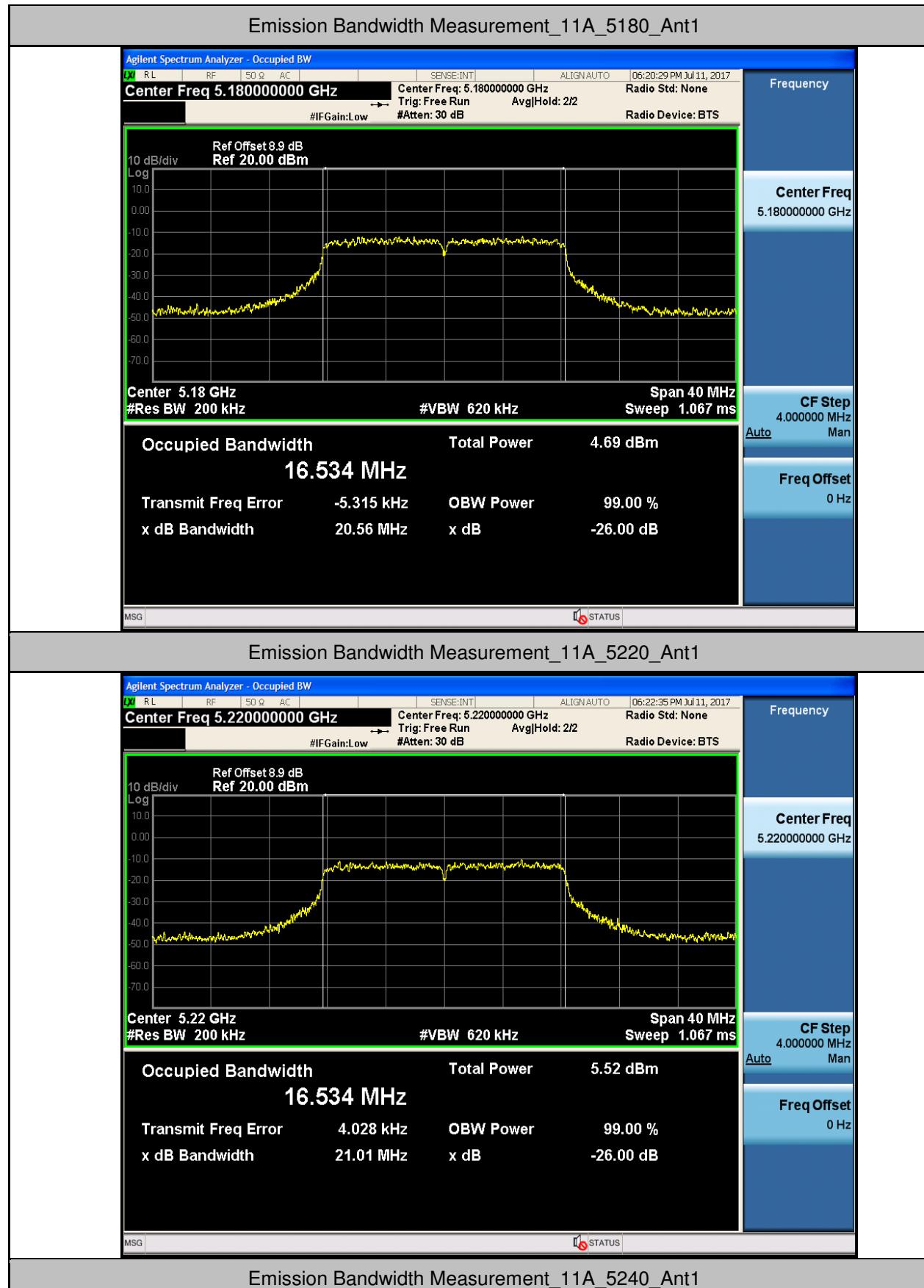
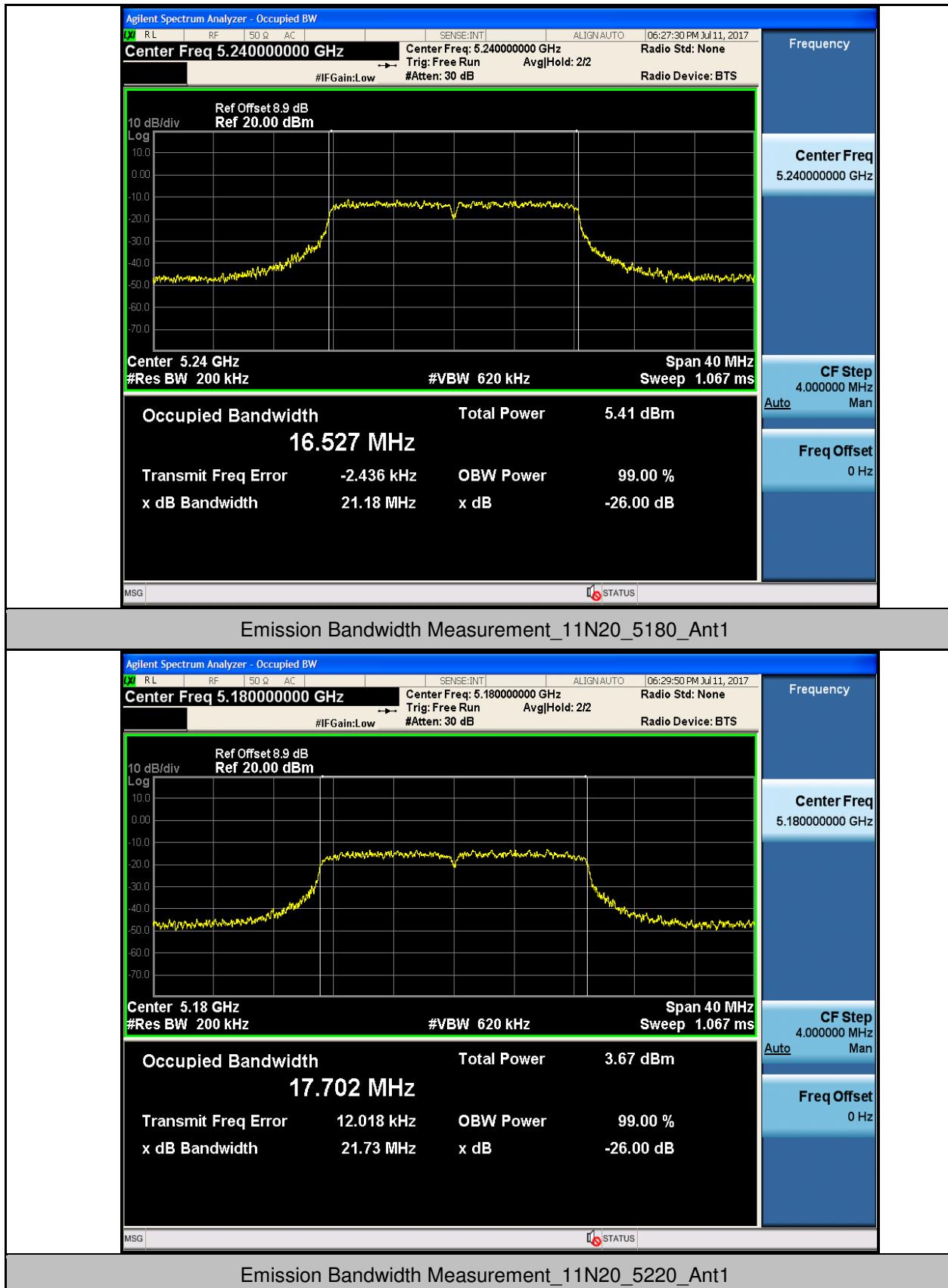

Appendix A for SHEM170600347902

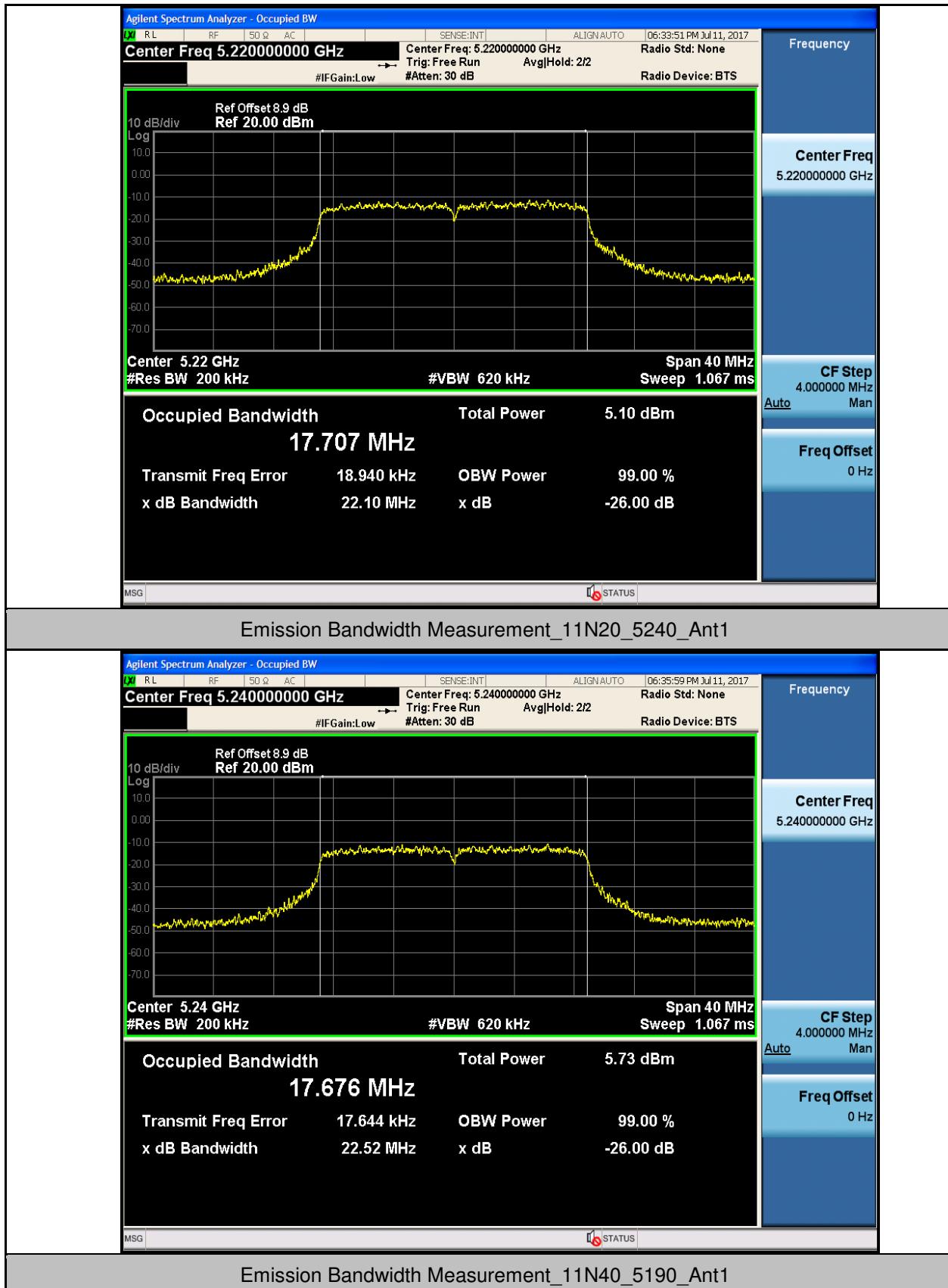
1.Emission Bandwidth Measurement

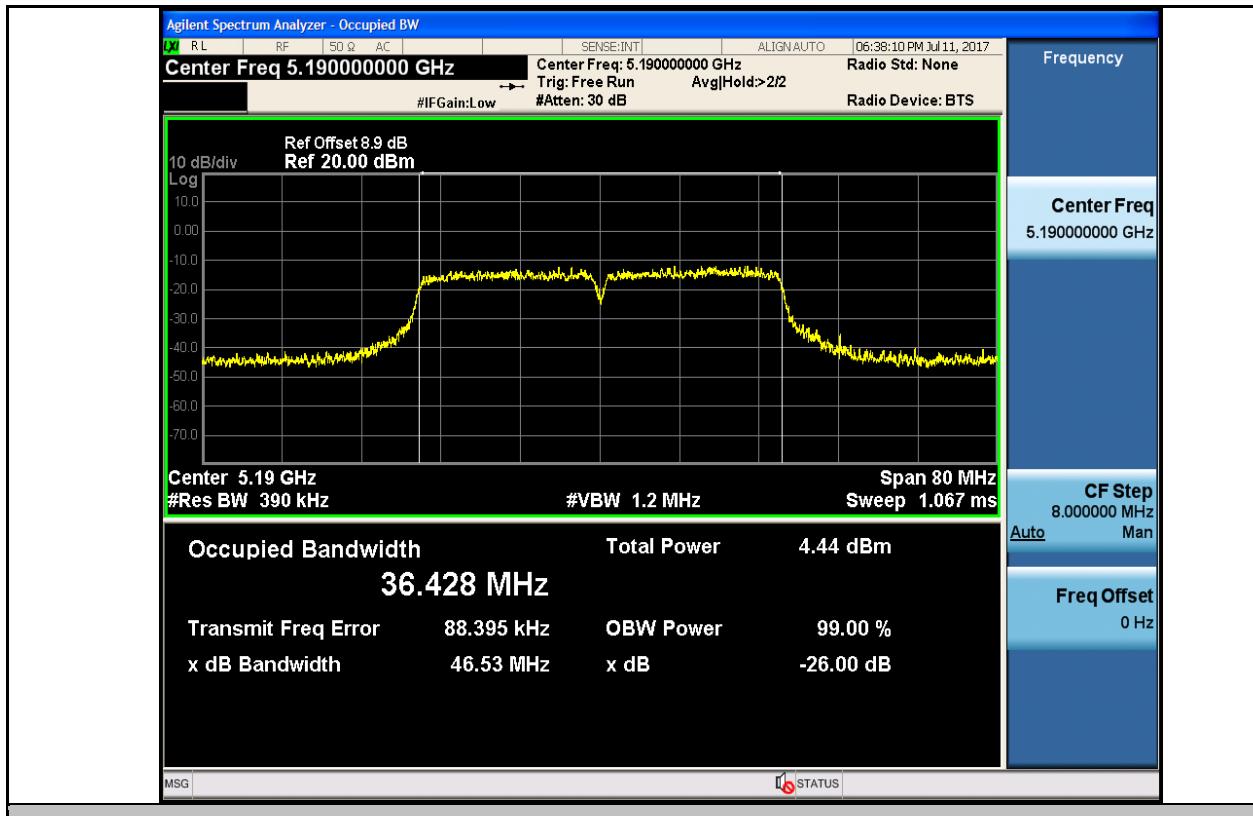
| Test Mode | Test Channel | EBW[MHz](Ant1) | EBW[MHz](Ant2) | Limit[MHz] | Verdict |
|-----------|--------------|----------------|----------------|------------|---------|
| 11A | 5180 | 20.56 | 21.33 | --- | PASS |
| 11A | 5220 | 21.01 | 21.67 | --- | PASS |
| 11A | 5240 | 21.18 | 21.17 | --- | PASS |
| 11N20 | 5180 | 21.73 | 23.06 | --- | PASS |
| 11N20 | 5220 | 22.10 | 22.59 | --- | PASS |
| 11N20 | 5240 | 22.52 | 22.73 | --- | PASS |
| 11N40 | 5190 | 46.53 | 45.83 | --- | PASS |
| 11N40 | 5230 | 45.82 | 46.06 | --- | PASS |

| Test Mode | Test Channel | EBW[MHz](Ant1) | EBW[MHz](Ant2) | Limit[MHz] | Verdict |
|-----------|--------------|----------------|----------------|------------|---------|
| 11N20MIMO | 5180 | 21.00 | 20.98 | --- | PASS |
| 11N20MIMO | 5220 | 20.66 | 20.77 | --- | PASS |
| 11N20MIMO | 5240 | 20.55 | 21.46 | --- | PASS |
| 11N40MIMO | 5190 | 45.06 | 43.68 | --- | PASS |
| 11N40MIMO | 5230 | 44.20 | 45.73 | --- | PASS |

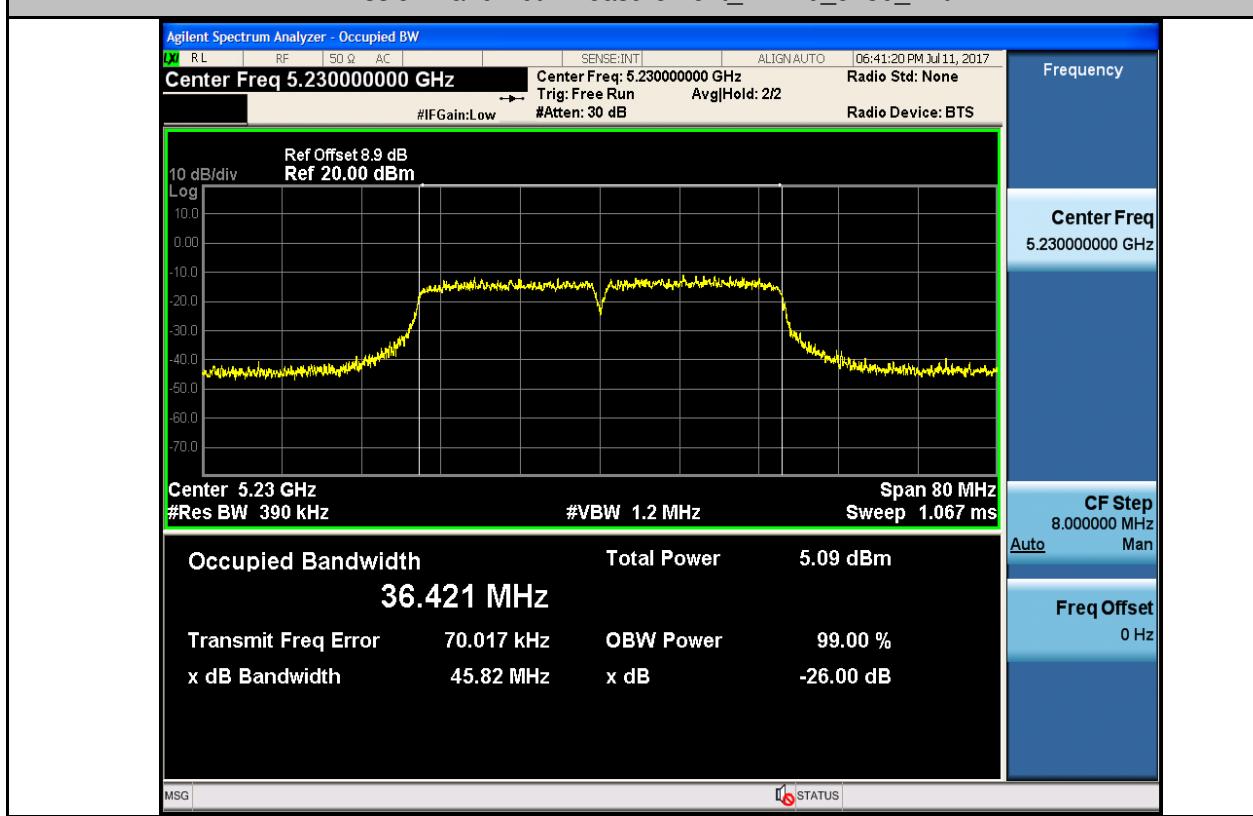


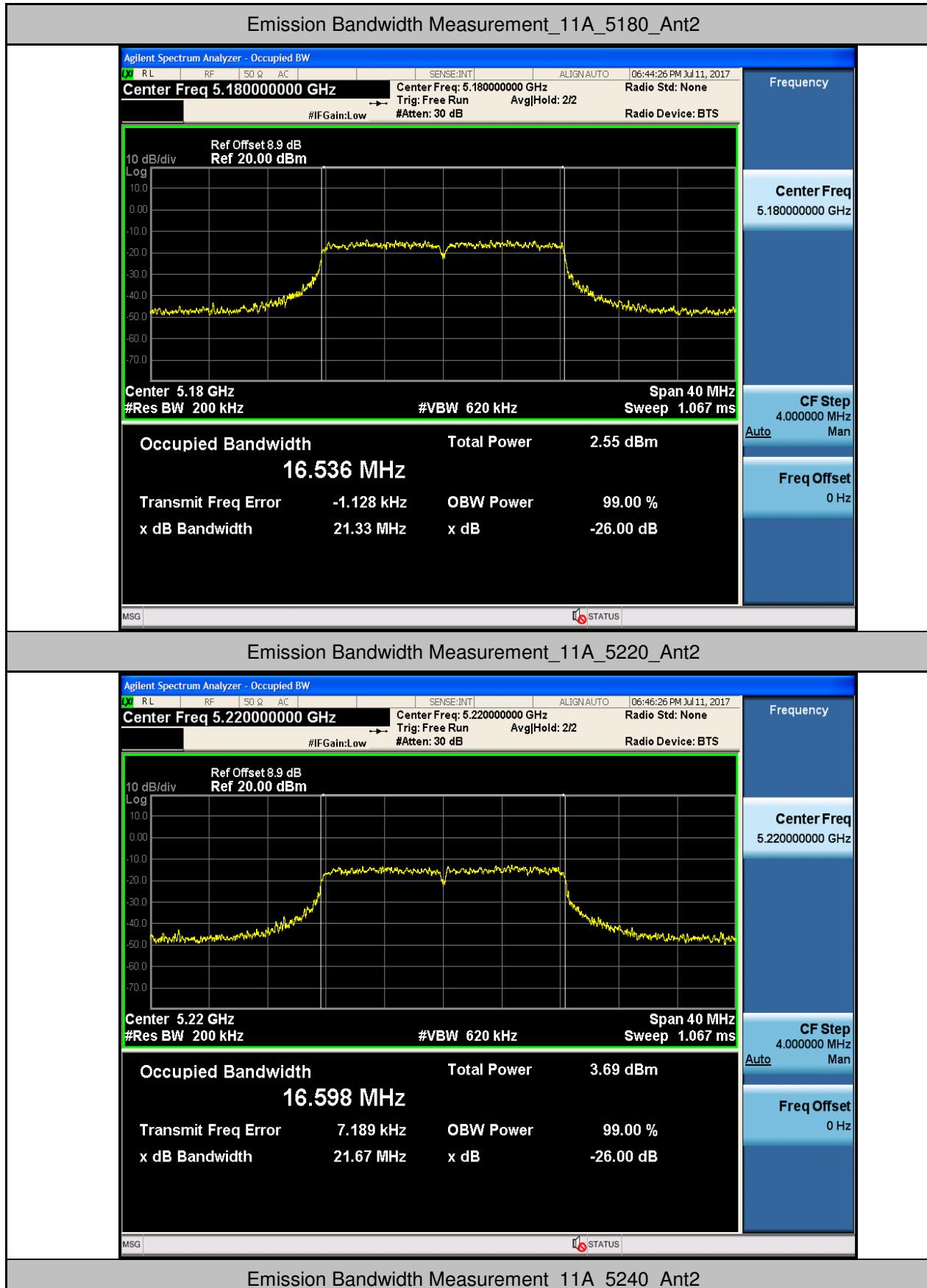


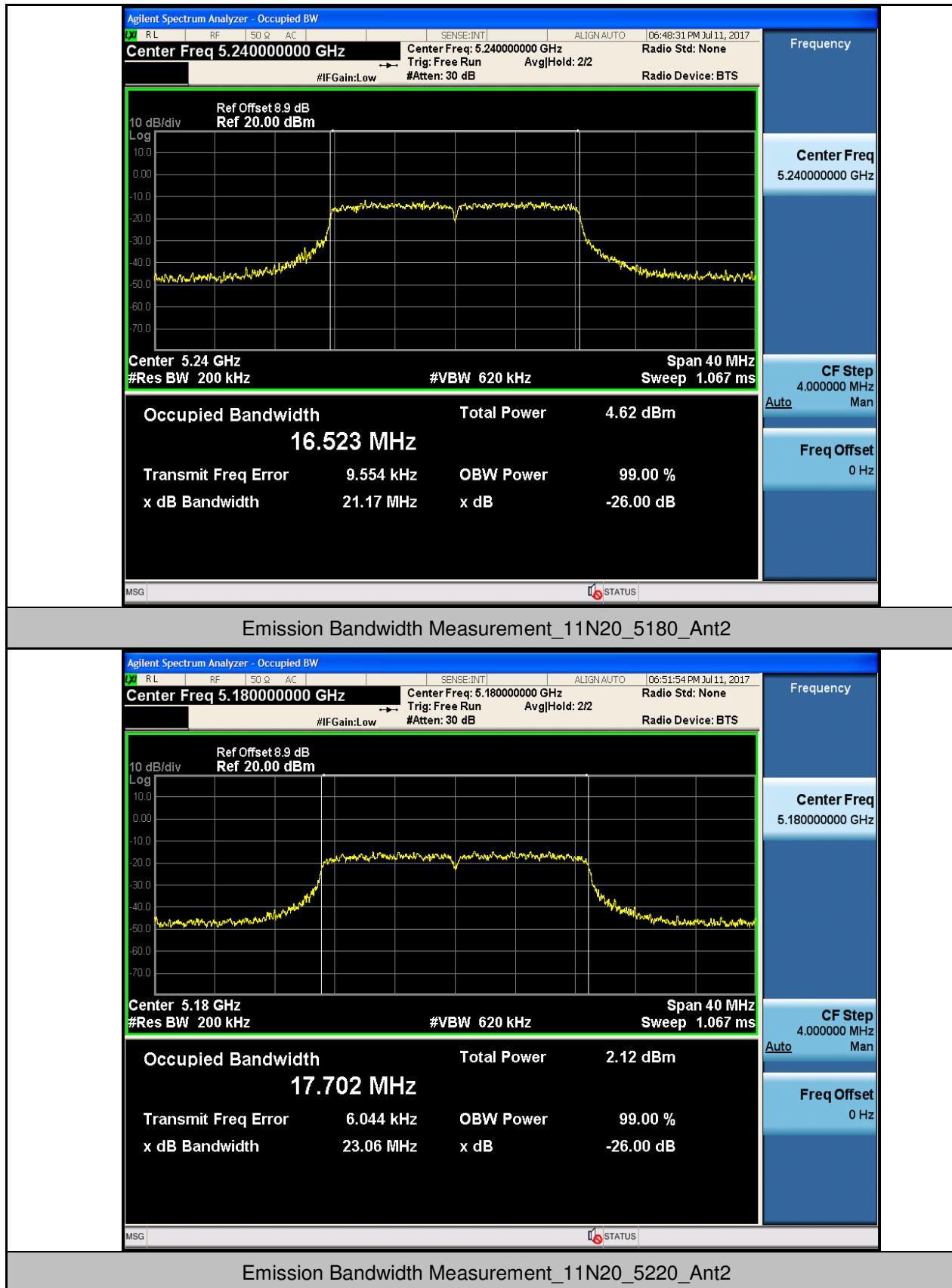


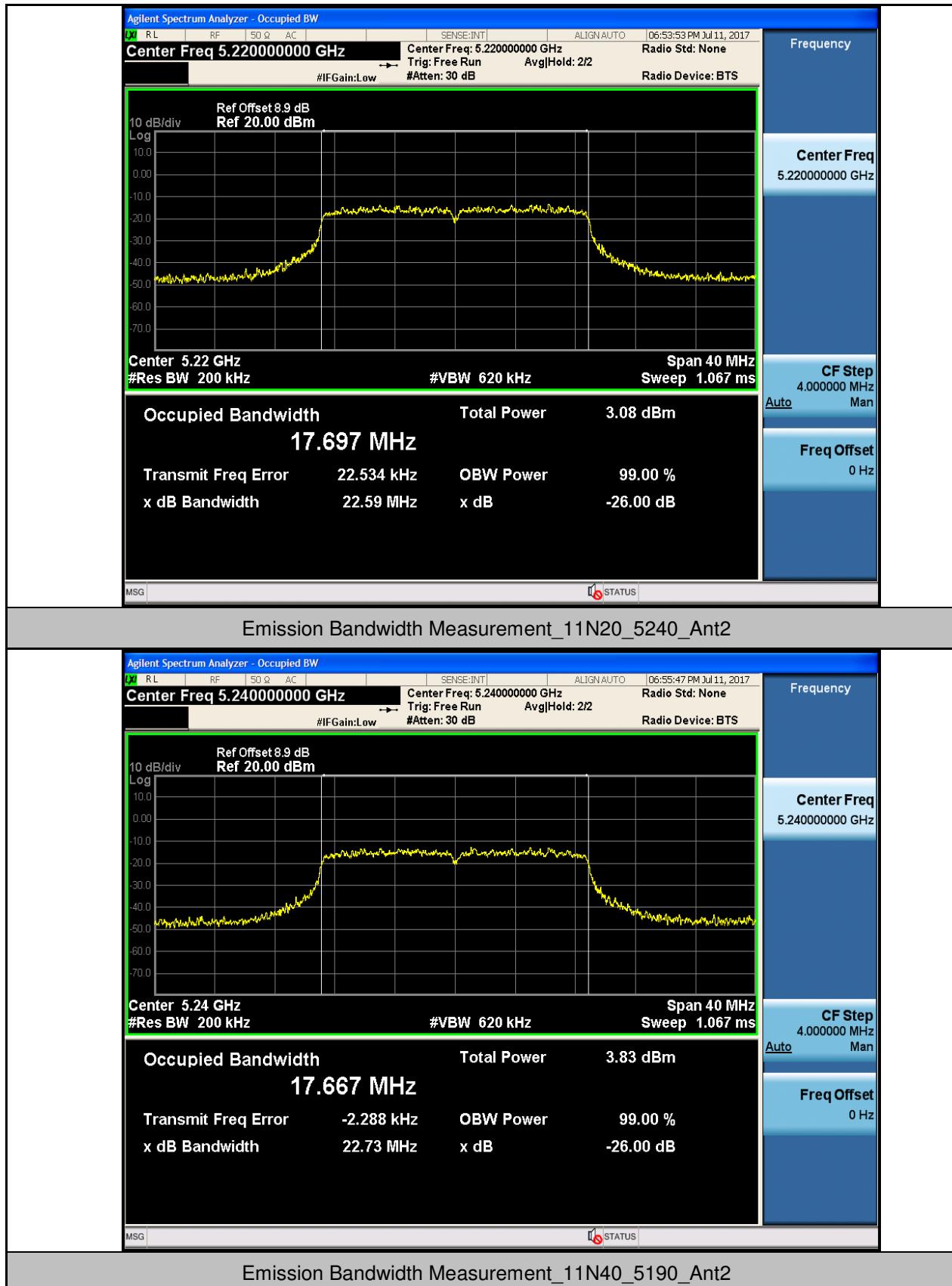


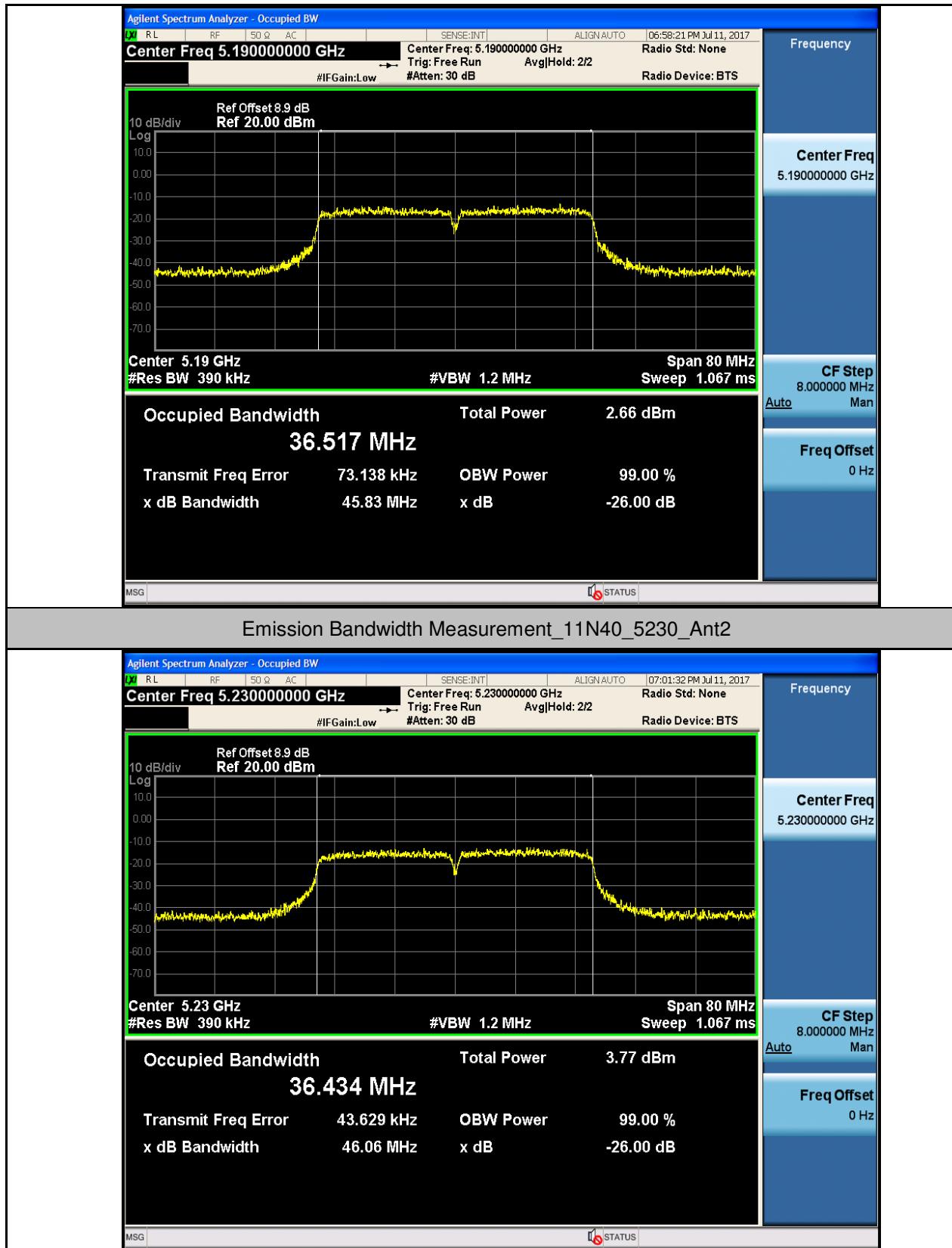
Emission Bandwidth Measurement_11N40_5230_Ant1

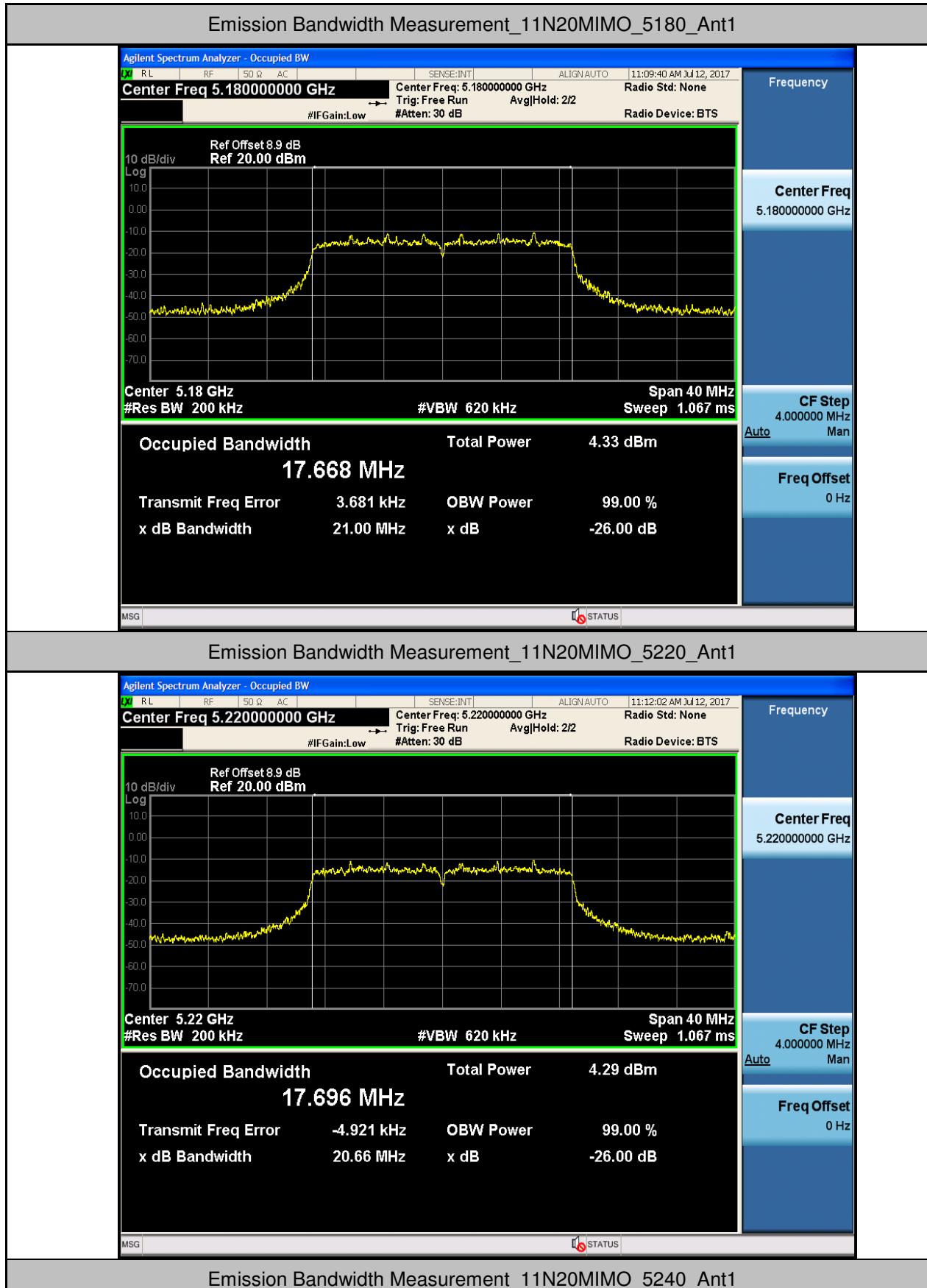


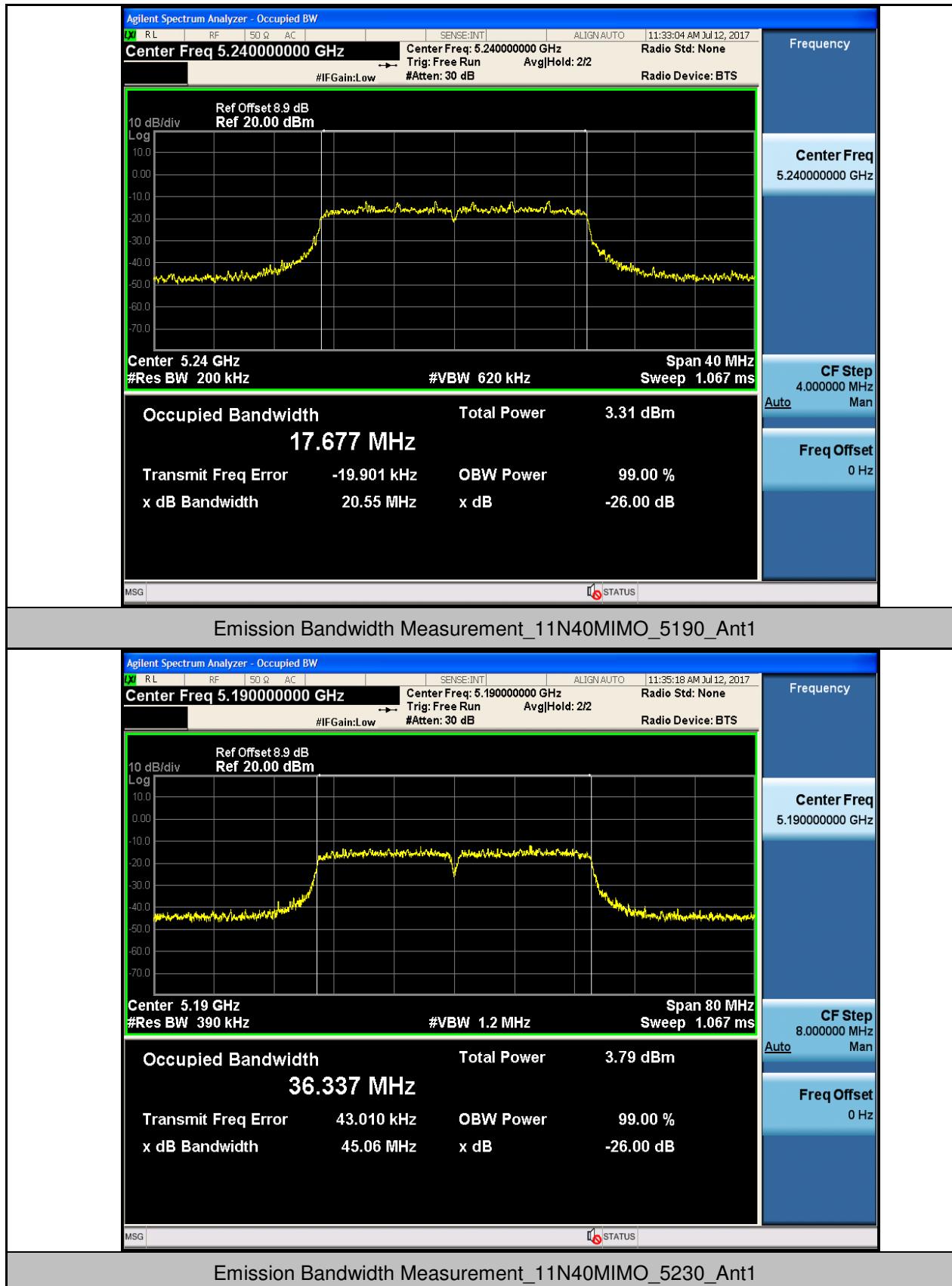


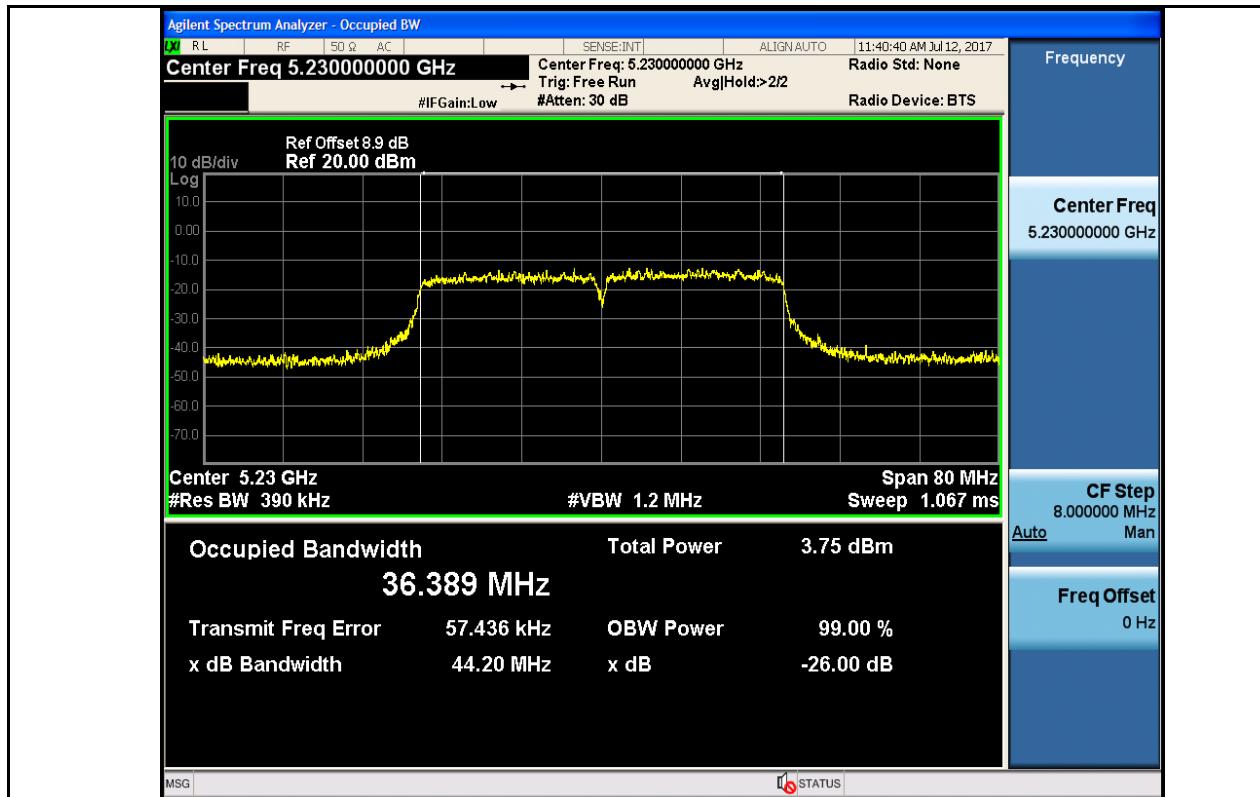


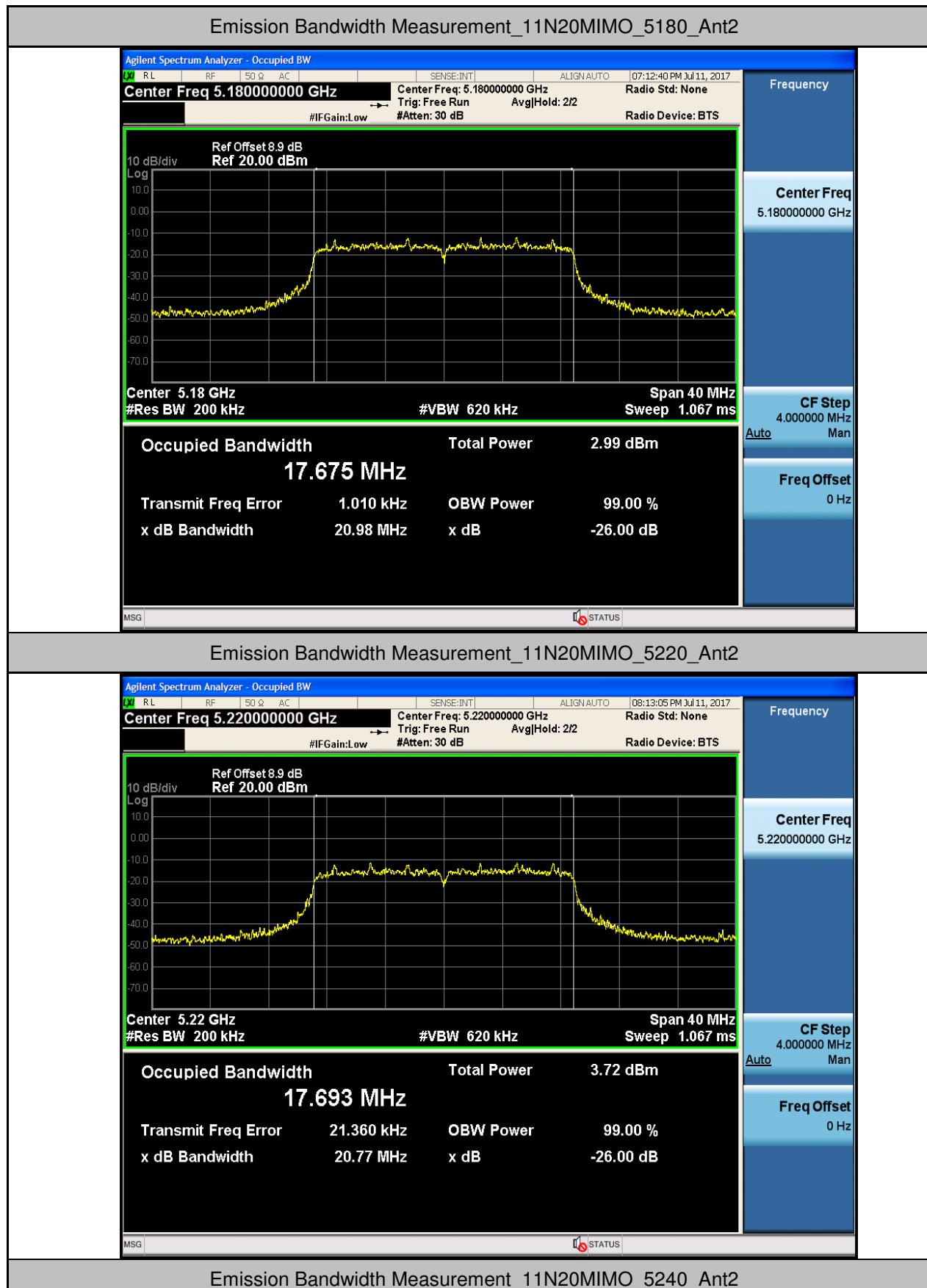


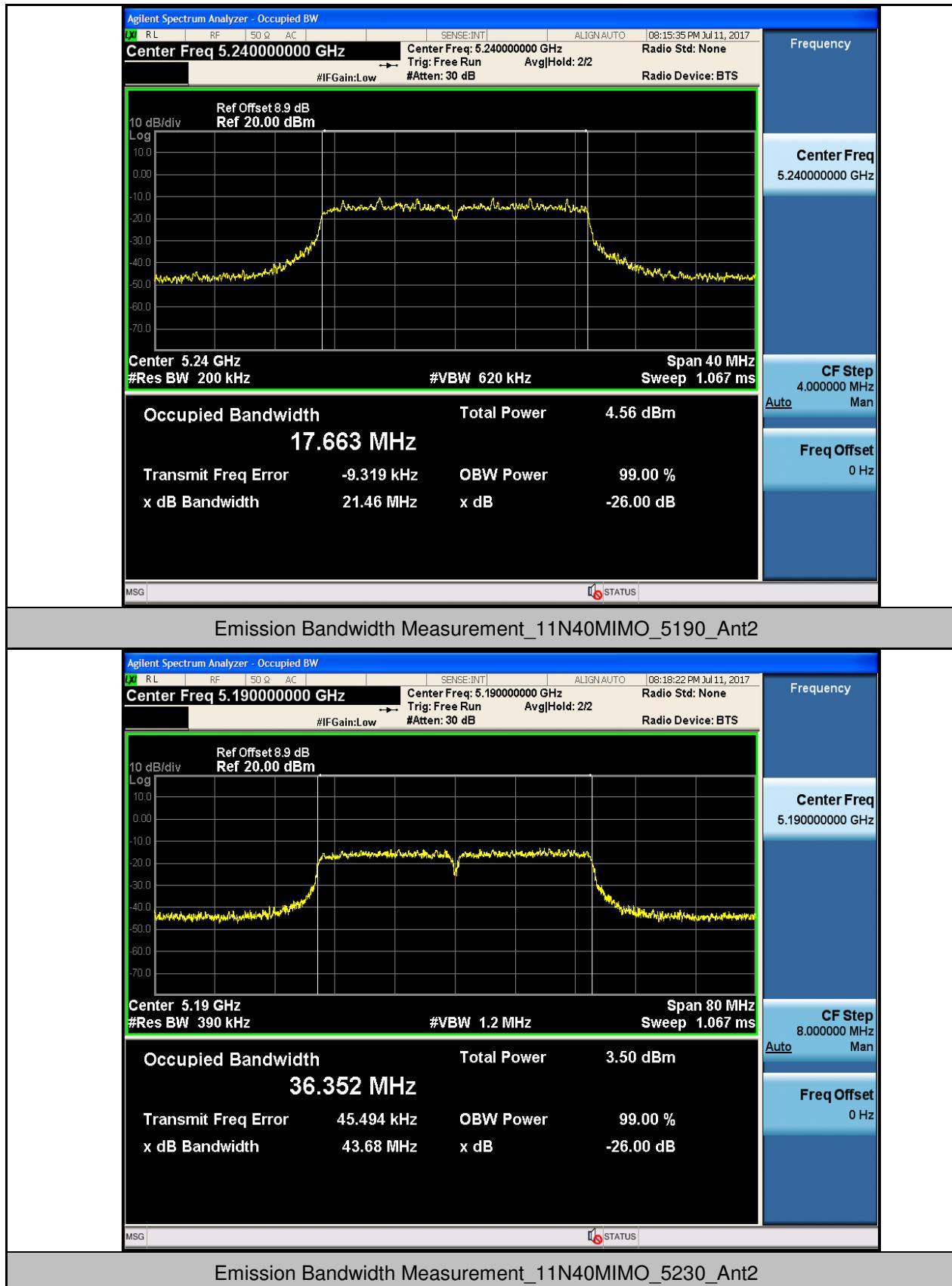


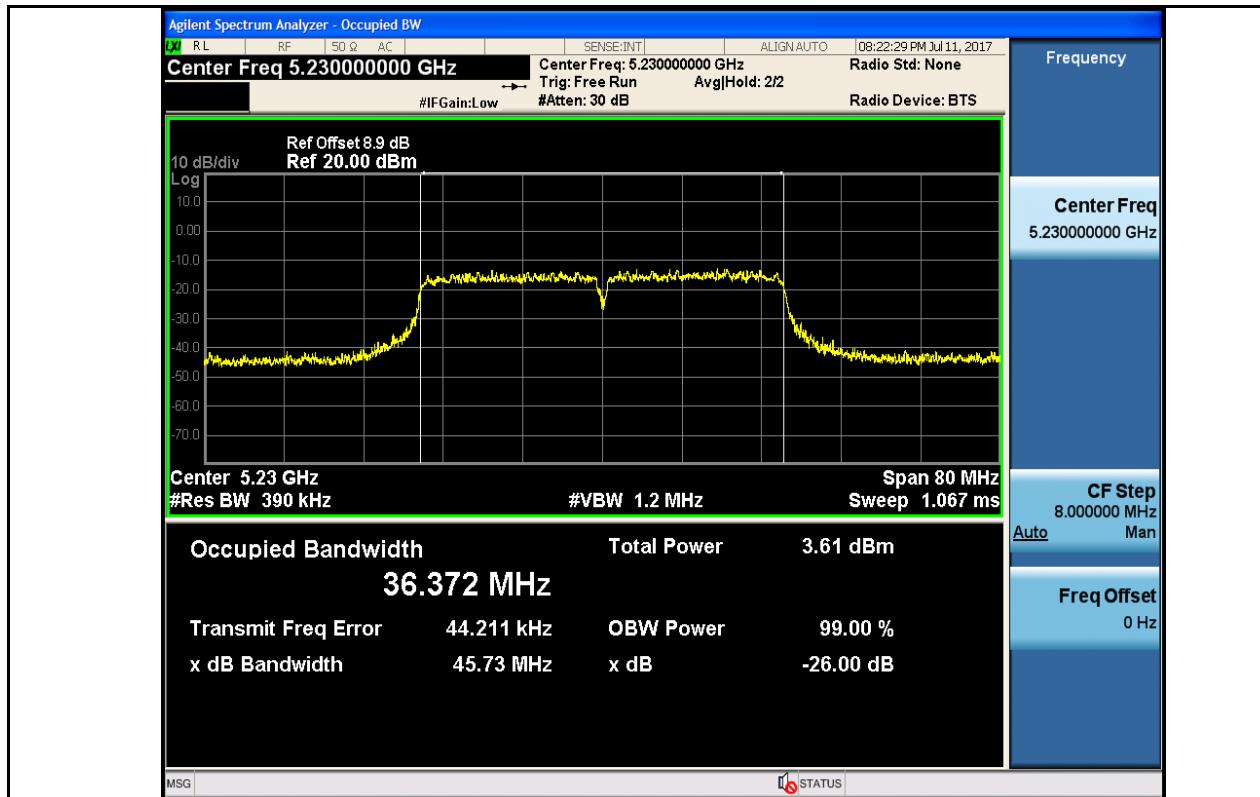












2. Maximum Conduct Output Power

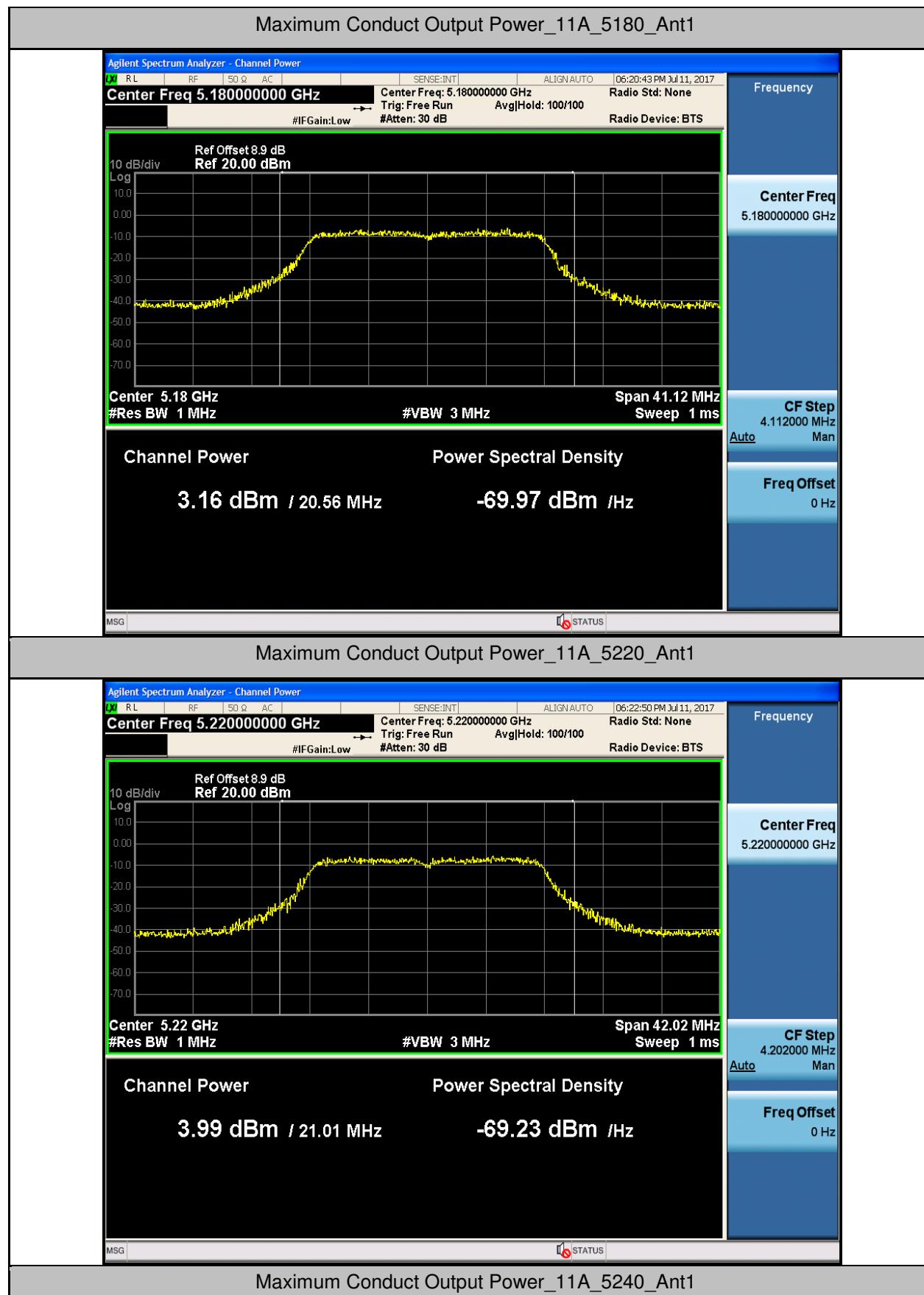
| Test Mode | Test Channel | Ant | Level [dBm] | 10log(1/x) Factor [dB] | Power [dBm] | Limit [dBm] | Verdict |
|-----------|--------------|------|-------------|------------------------|-------------|-------------|---------|
| 11A | 5180 | Ant1 | 3.16 | 1.09858539935423 | 4.26 | 30.00 | PASS |
| 11A | 5220 | Ant1 | 3.99 | 1.1650890981107 | 5.16 | 30.00 | PASS |
| 11A | 5240 | Ant1 | 3.87 | 1.14978205137702 | 5.02 | 30.00 | PASS |
| 11N20 | 5180 | Ant1 | 2.08 | 0.56406567231631 | 2.64 | 30.00 | PASS |
| 11N20 | 5220 | Ant1 | 3.5 | 0.56406567231631 | 4.06 | 30.00 | PASS |
| 11N20 | 5240 | Ant1 | 4.22 | 0.56406567231631 | 4.78 | 30.00 | PASS |
| 11N40 | 5190 | Ant1 | 3.19 | 0.811836096396205 | 4.00 | 30.00 | PASS |
| 11N40 | 5230 | Ant1 | 3.79 | 0.801377464444619 | 4.59 | 30.00 | PASS |

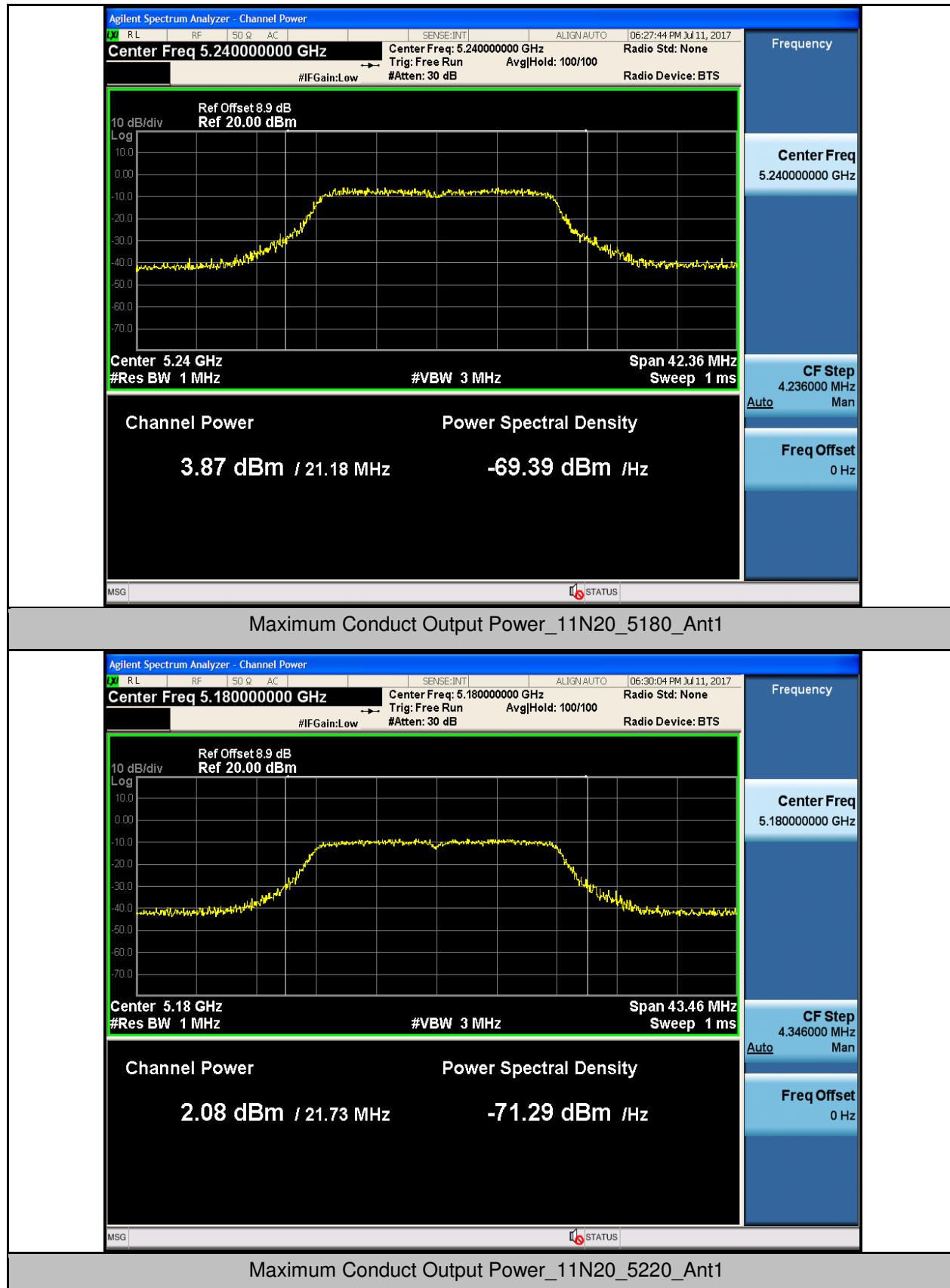
| Test Mode | Test Channel | Ant | Level [dBm] | 10log(1/x) Factor [dB] | Power [dBm] | Limit [dBm] | Verdict |
|-----------|--------------|------|-------------|------------------------|-------------|-------------|---------|
| 11A | 5180 | Ant2 | 0.99 | 1.14978205137702 | 2.14 | 30.00 | PASS |
| 11A | 5220 | Ant2 | 2.12 | 1.1650890981107 | 3.29 | 30.00 | PASS |
| 11A | 5240 | Ant2 | 3.07 | 1.09858539935423 | 4.17 | 30.00 | PASS |
| 11N20 | 5180 | Ant2 | 0.52 | 0.595831353183348 | 1.12 | 30.00 | PASS |
| 11N20 | 5220 | Ant2 | 1.45 | 0.591847913491986 | 2.04 | 30.00 | PASS |
| 11N20 | 5240 | Ant2 | 2.27 | 0.56406567231631 | 2.83 | 30.00 | PASS |
| 11N40 | 5190 | Ant2 | 1.18 | 0.811836096396205 | 1.99 | 30.00 | PASS |
| 11N40 | 5230 | Ant2 | 2.46 | 0.752556475200514 | 3.21 | 30.00 | PASS |

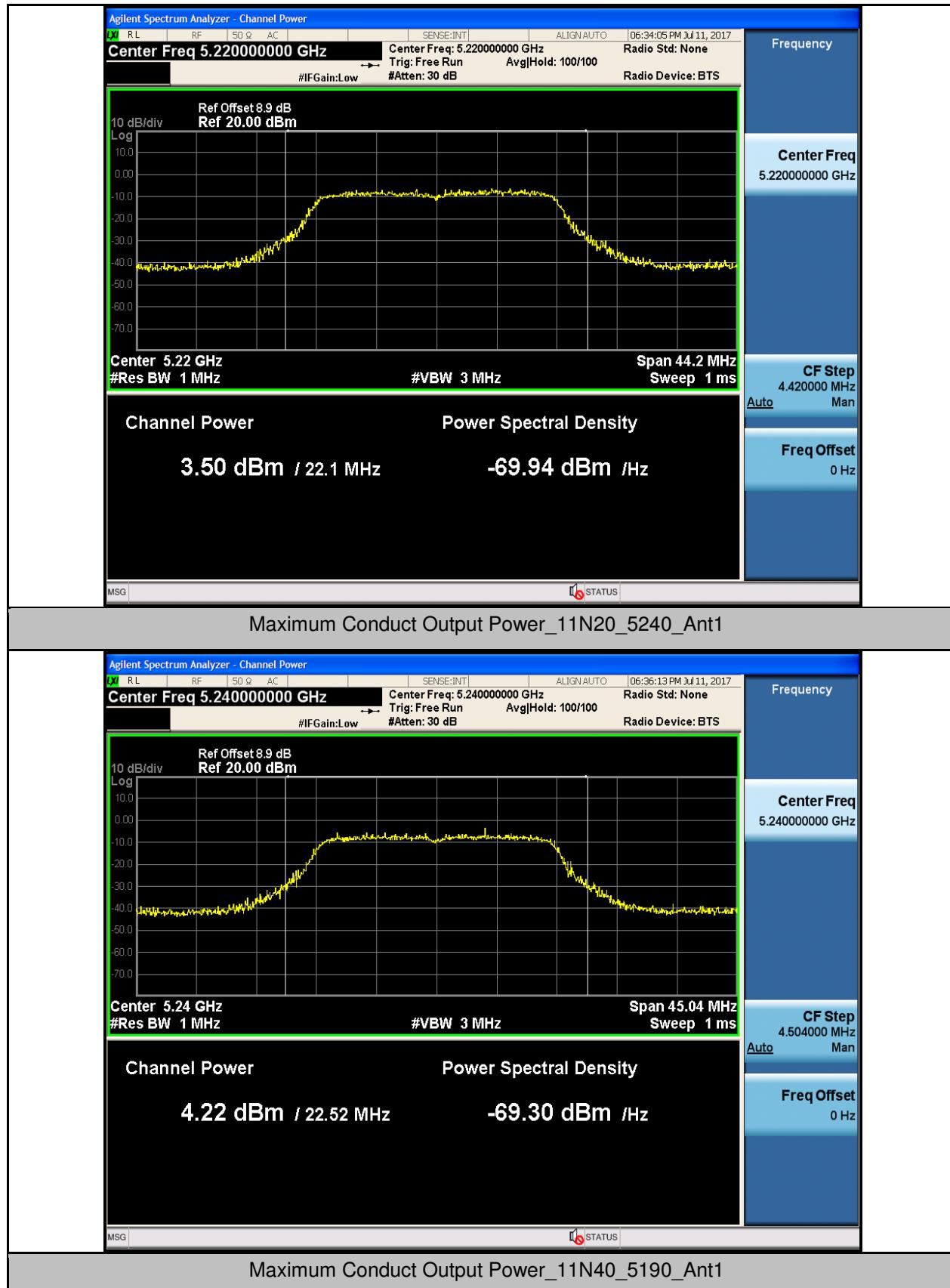
| Test Mode | Test Channel | Ant | Level [dBm] | 10log(1/x) Factor [dB] | Power [dBm] | Limit [dBm] | Verdict |
|-----------|--------------|------|-------------|------------------------|-------------|-------------|---------|
| 11N20MIMO | 5180 | Ant1 | 2.42 | 0.595831353183348 | 3.02 | 30.00 | PASS |
| 11N20MIMO | 5220 | Ant1 | 2.62 | 0.591847913491986 | 3.21 | 30.00 | PASS |
| 11N20MIMO | 5240 | Ant1 | 1.36 | 0.56406567231631 | 1.92 | 30.00 | PASS |
| 11N40MIMO | 5190 | Ant1 | 2.1 | 0.801377464444619 | 2.90 | 30.00 | PASS |
| 11N40MIMO | 5230 | Ant1 | 2.12 | 0.801377464444619 | 2.92 | 30.00 | PASS |

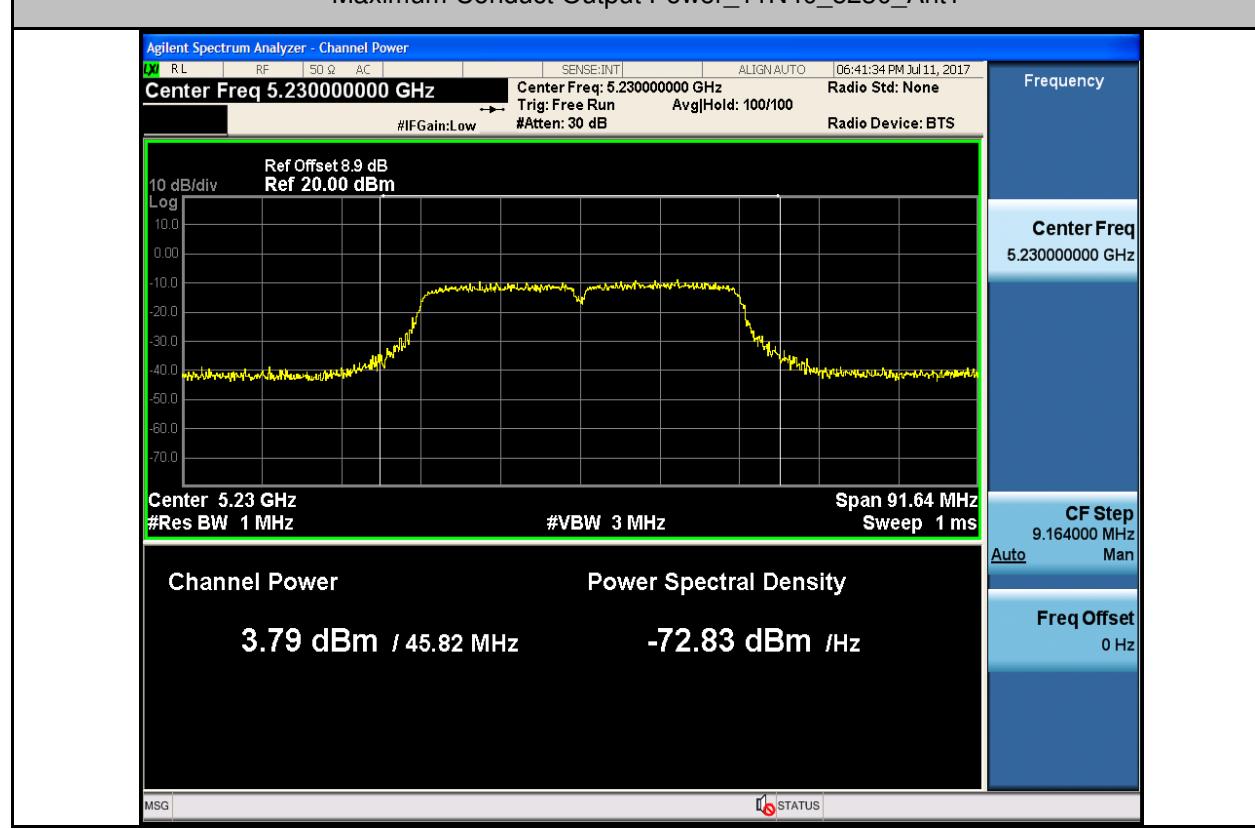
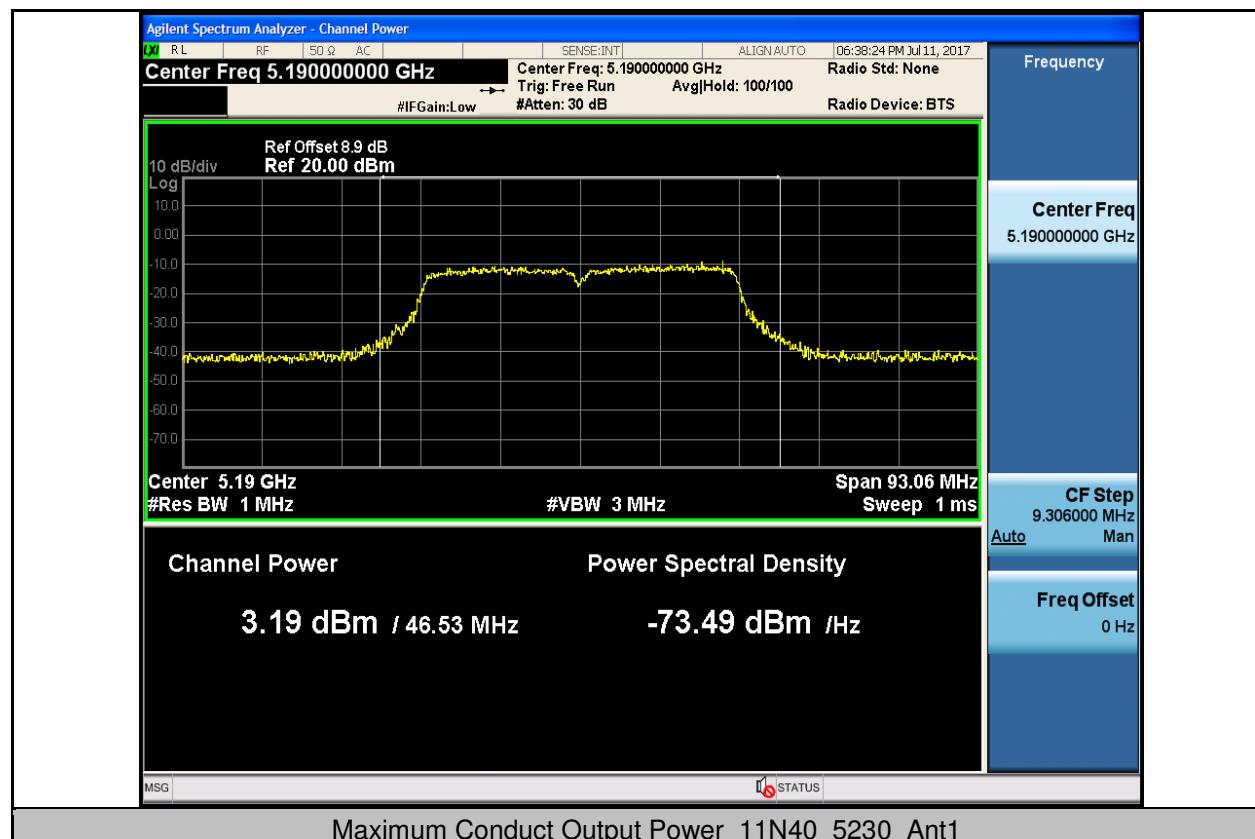
| Test Mode | Test Channel | Ant | Level [dBm] | 10log(1/x) Factor [dB] | Power [dBm] | Limit [dBm] | Verdict |
|-----------|--------------|------|-------------|------------------------|-------------|-------------|---------|
| 11N20MIMO | 5180 | Ant2 | 1.45 | 0.591847913491986 | 2.04 | 30.00 | PASS |
| 11N20MIMO | 5220 | Ant2 | 2.04 | 0.591847913491986 | 2.63 | 30.00 | PASS |
| 11N20MIMO | 5240 | Ant2 | 2.93 | 0.56406567231631 | 3.49 | 30.00 | PASS |
| 11N40MIMO | 5190 | Ant2 | 1.98 | 0.811836096396205 | 2.79 | 30.00 | PASS |
| 11N40MIMO | 5230 | Ant2 | 2.23 | 0.801377464444619 | 3.03 | 30.00 | PASS |

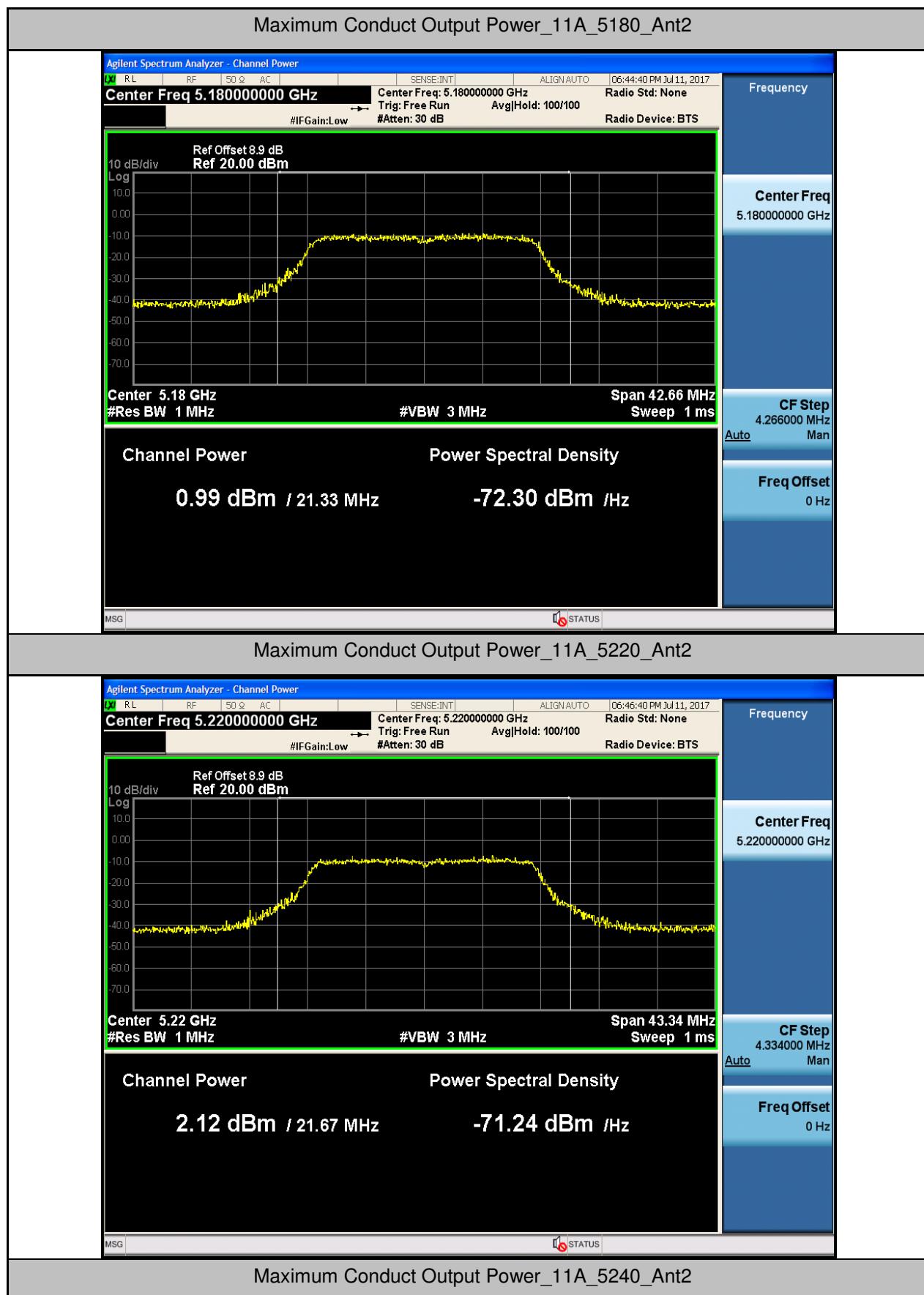
| Test Mode | Test Channel | Ant1 Power [dBm] | Ant2 Power [dBm] | MIMO Power [dBm] | Limit [dBm] | Verdict |
|-----------|--------------|------------------|------------------|------------------|-------------|---------|
| 11N20MIMO | 5180 | 3.02 | 2.04 | 5.57 | 30.00 | PASS |
| 11N20MIMO | 5220 | 3.21 | 2.63 | 5.94 | 30.00 | PASS |
| 11N20MIMO | 5240 | 1.92 | 3.49 | 5.79 | 30.00 | PASS |
| 11N40MIMO | 5190 | 2.90 | 2.79 | 5.86 | 30.00 | PASS |
| 11N40MIMO | 5230 | 2.92 | 3.03 | 5.99 | 30.00 | PASS |

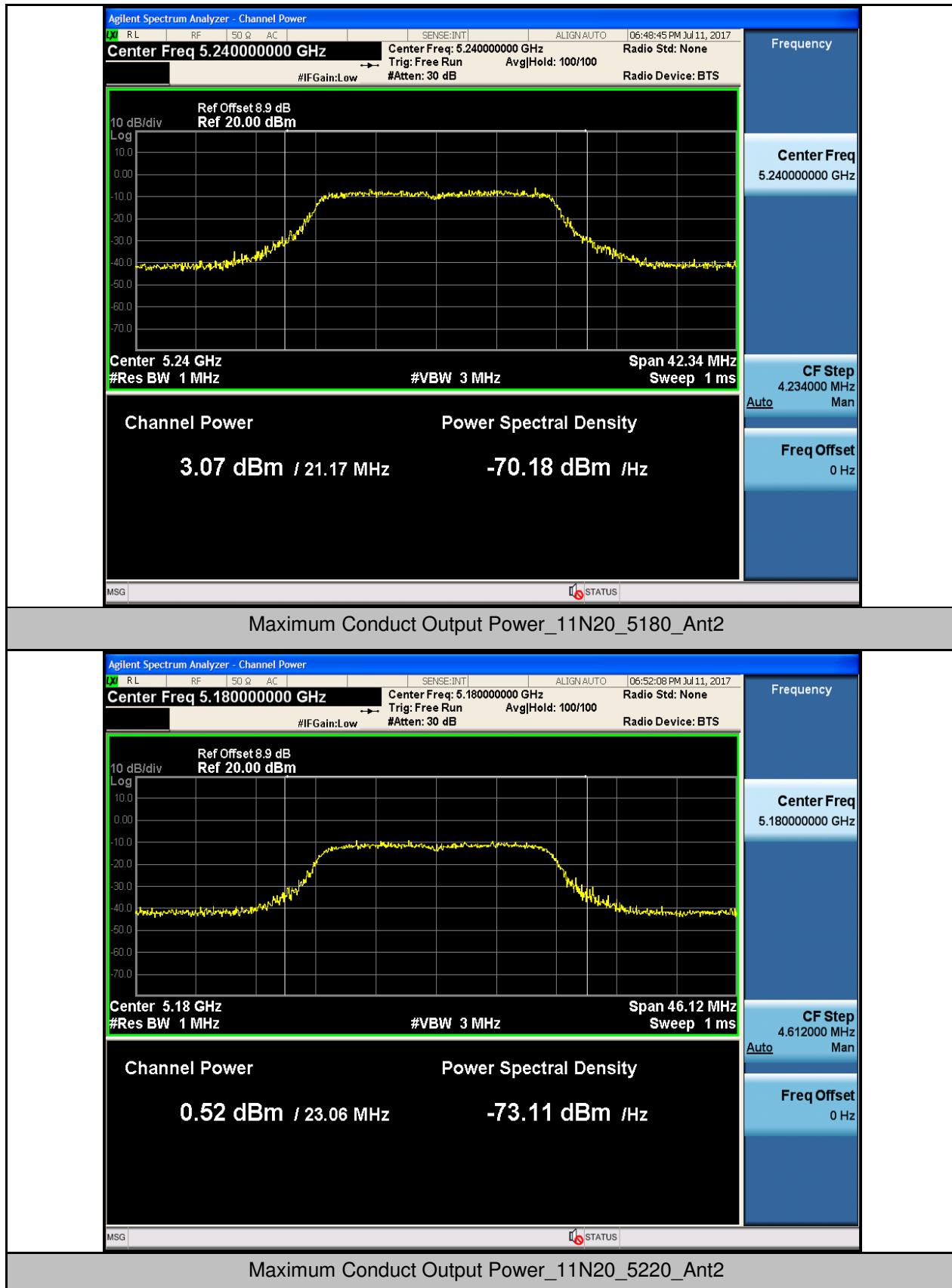


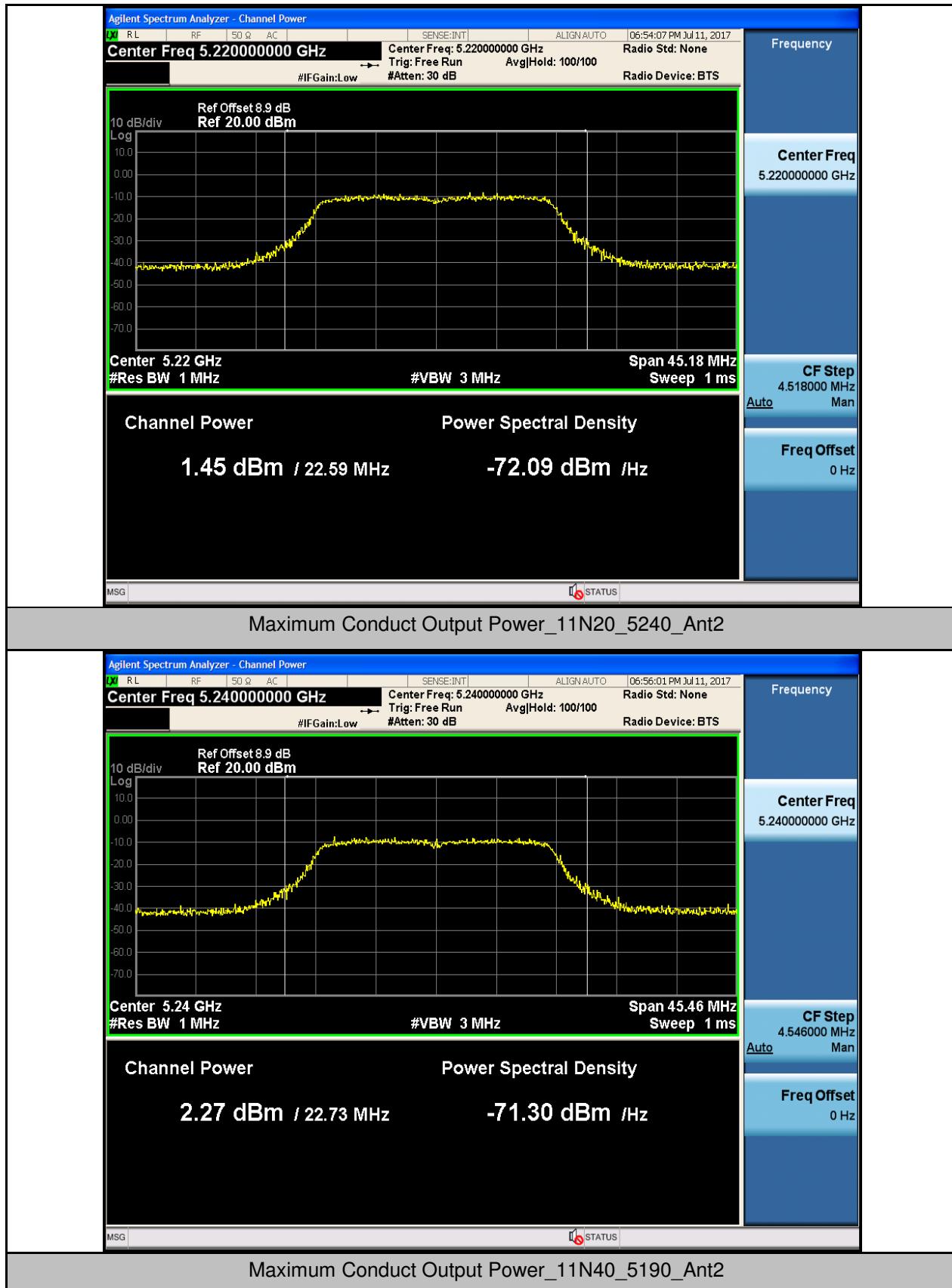


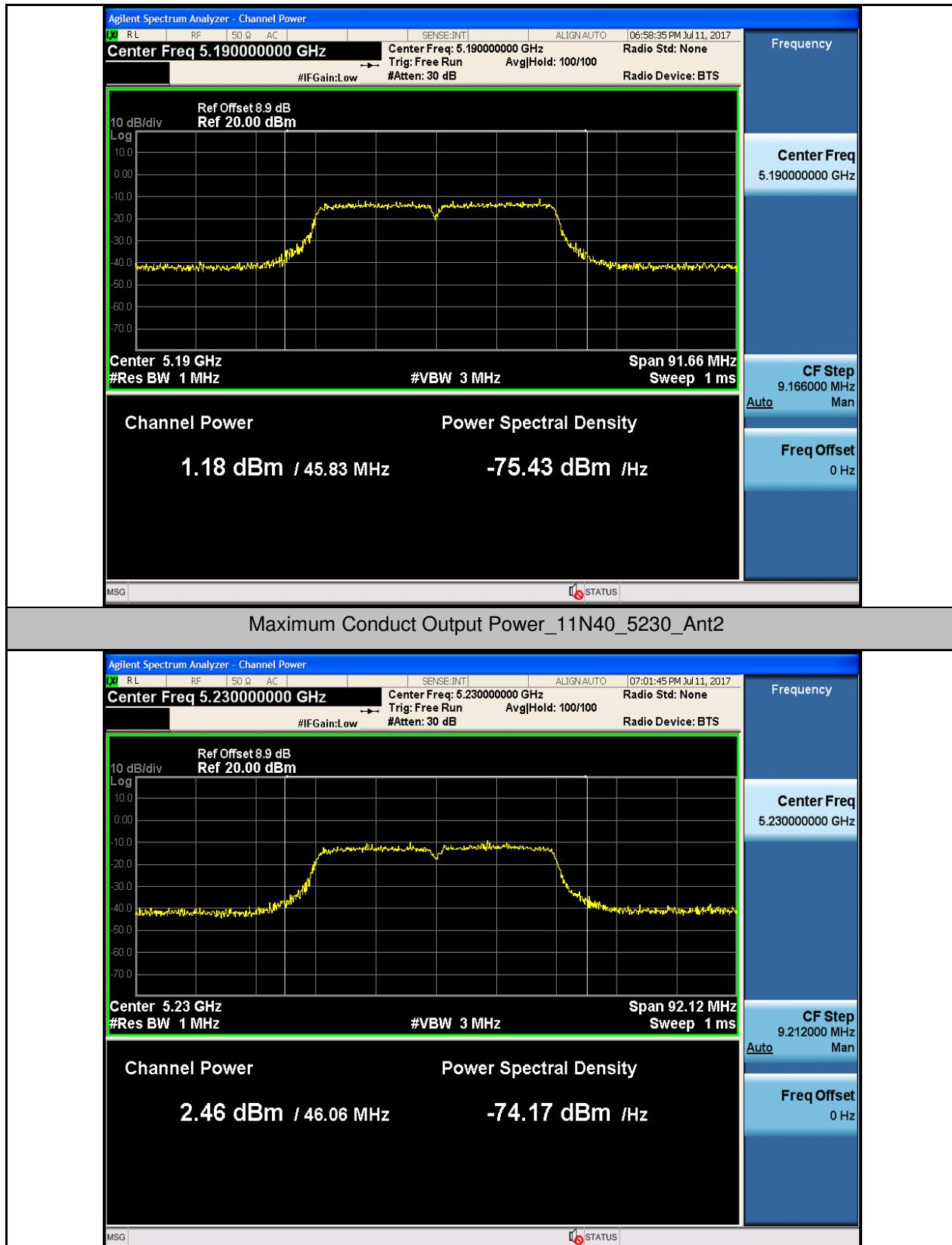


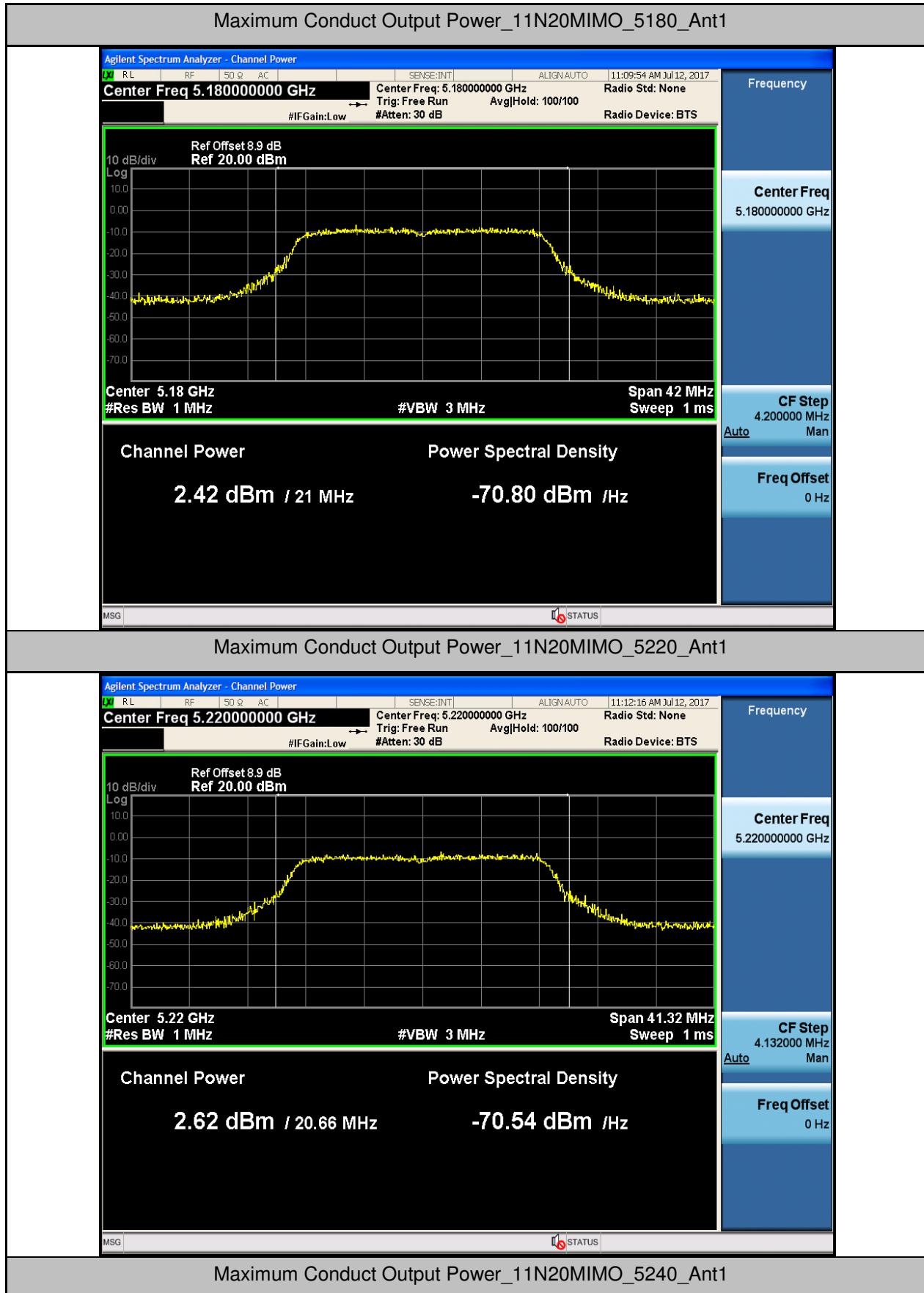


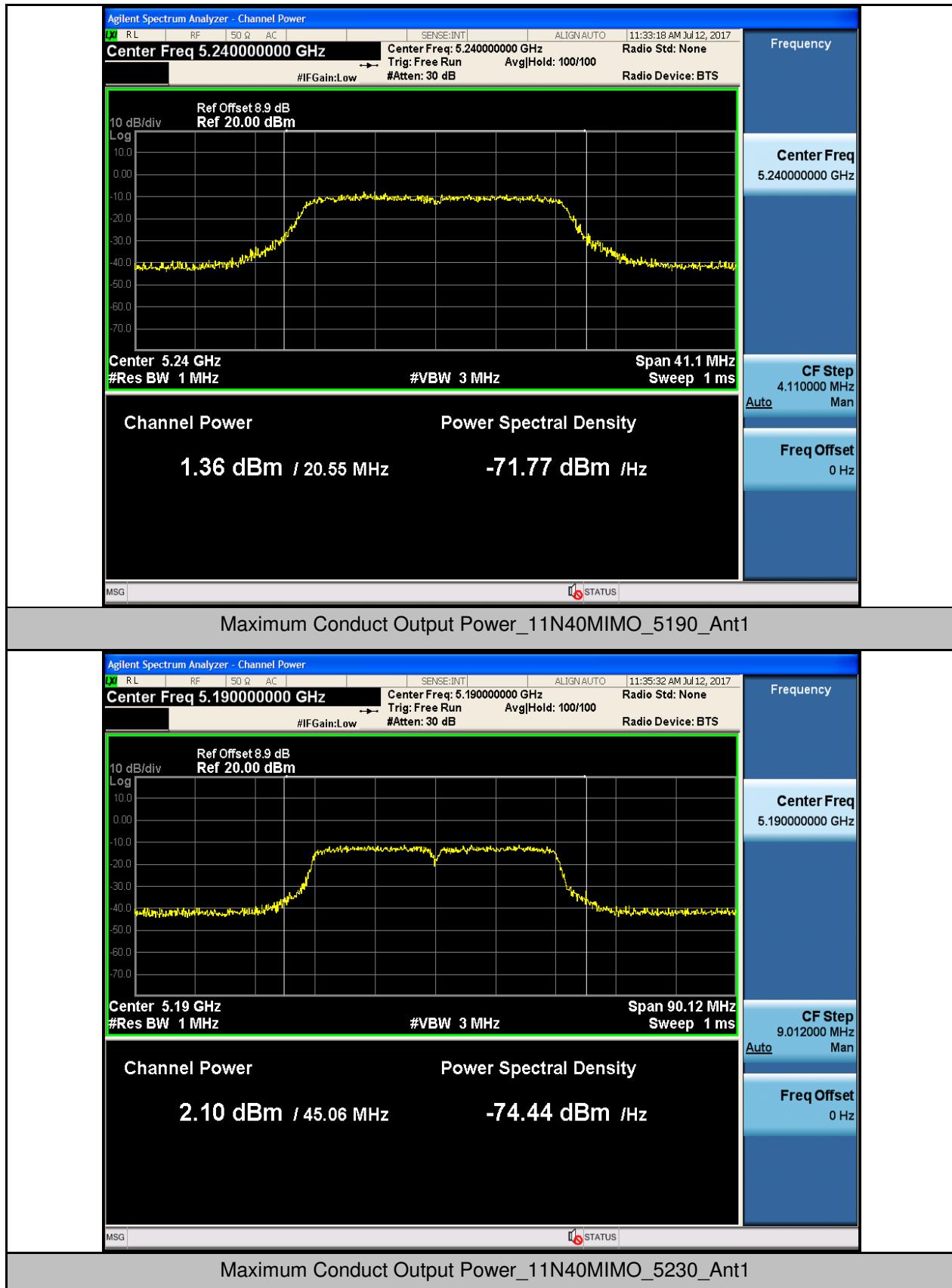


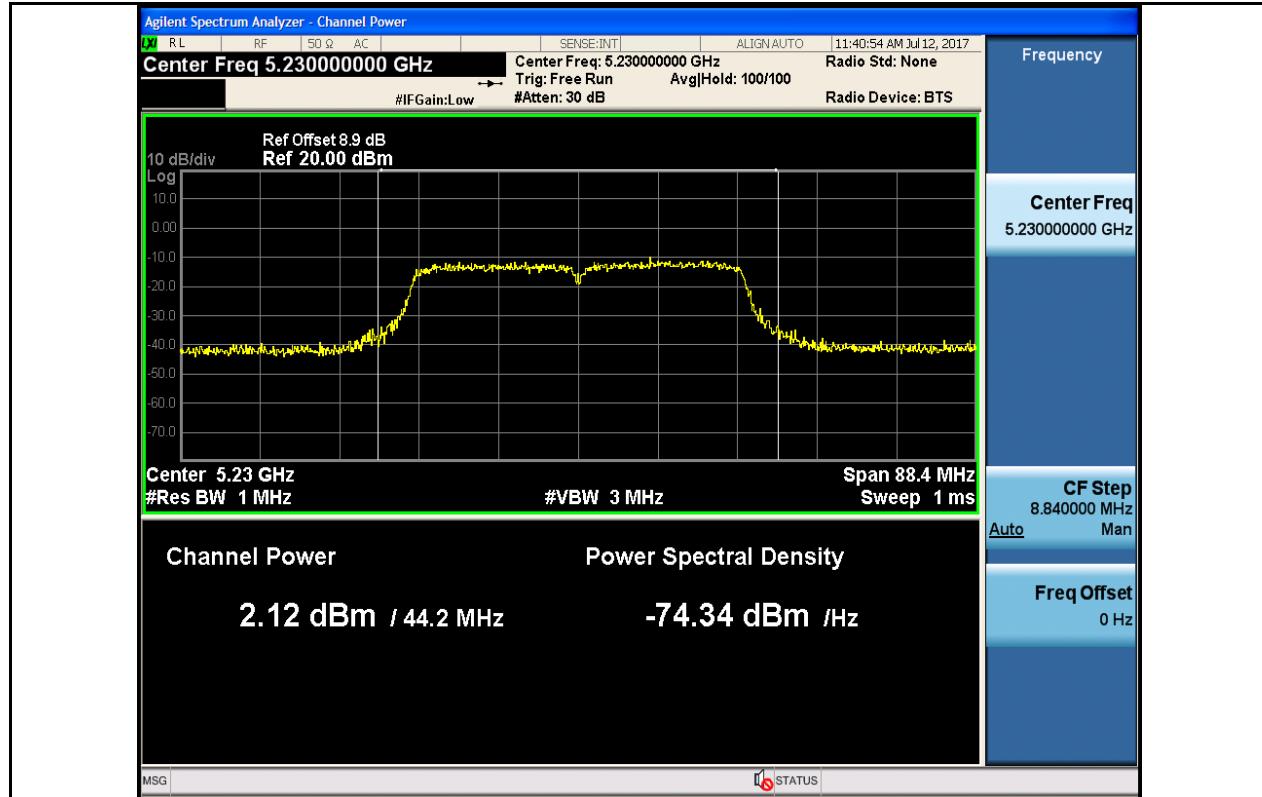


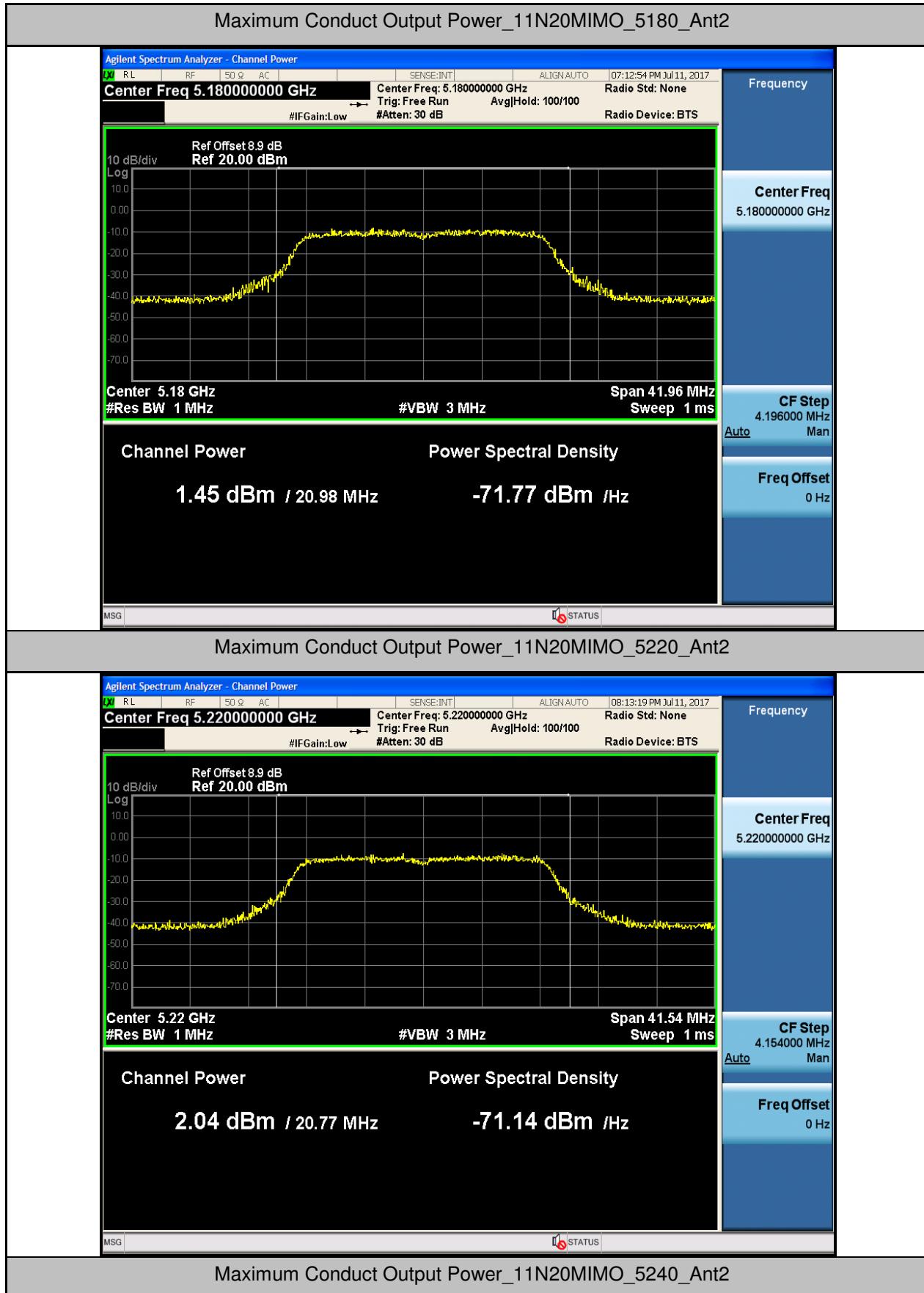


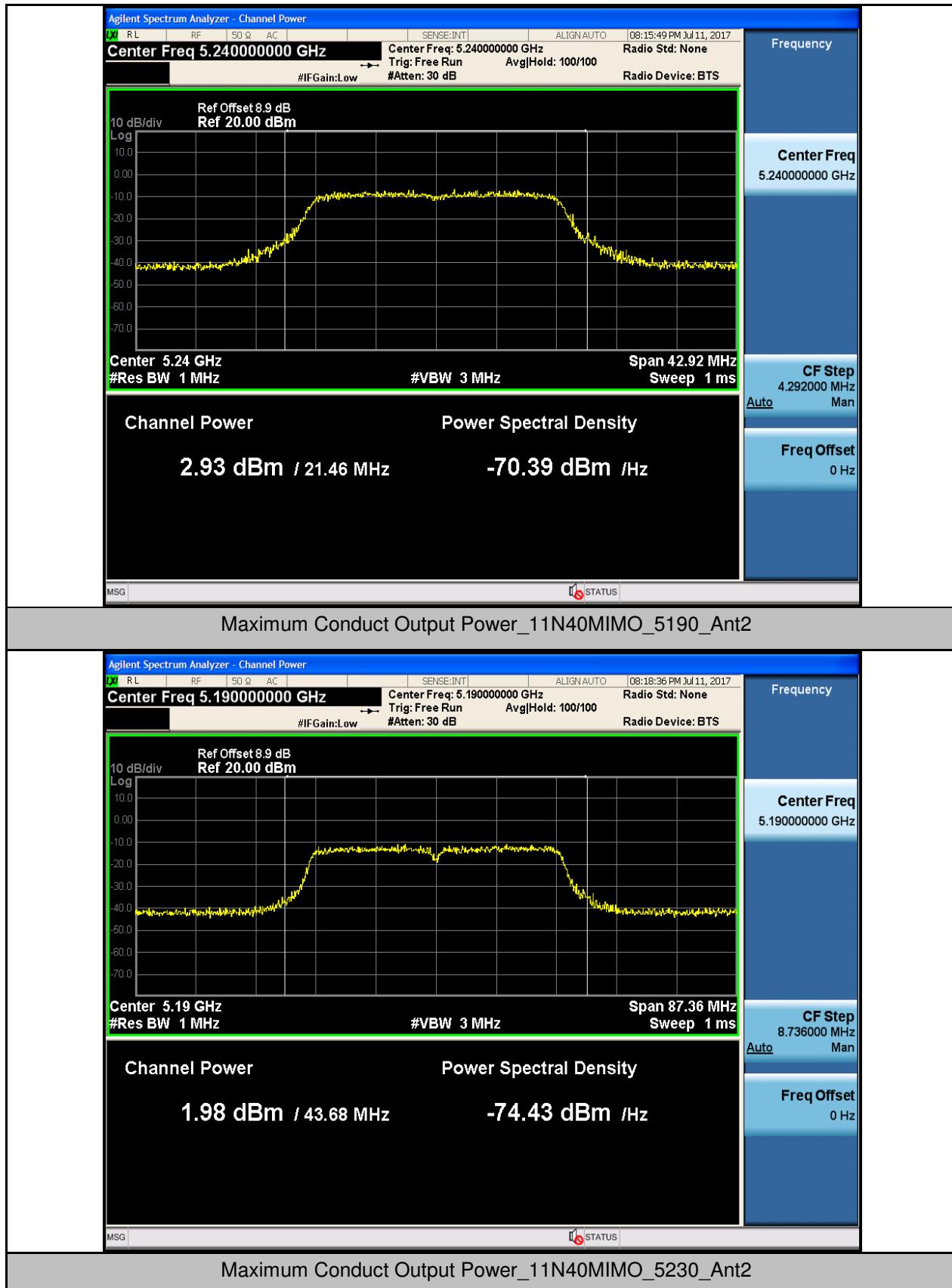


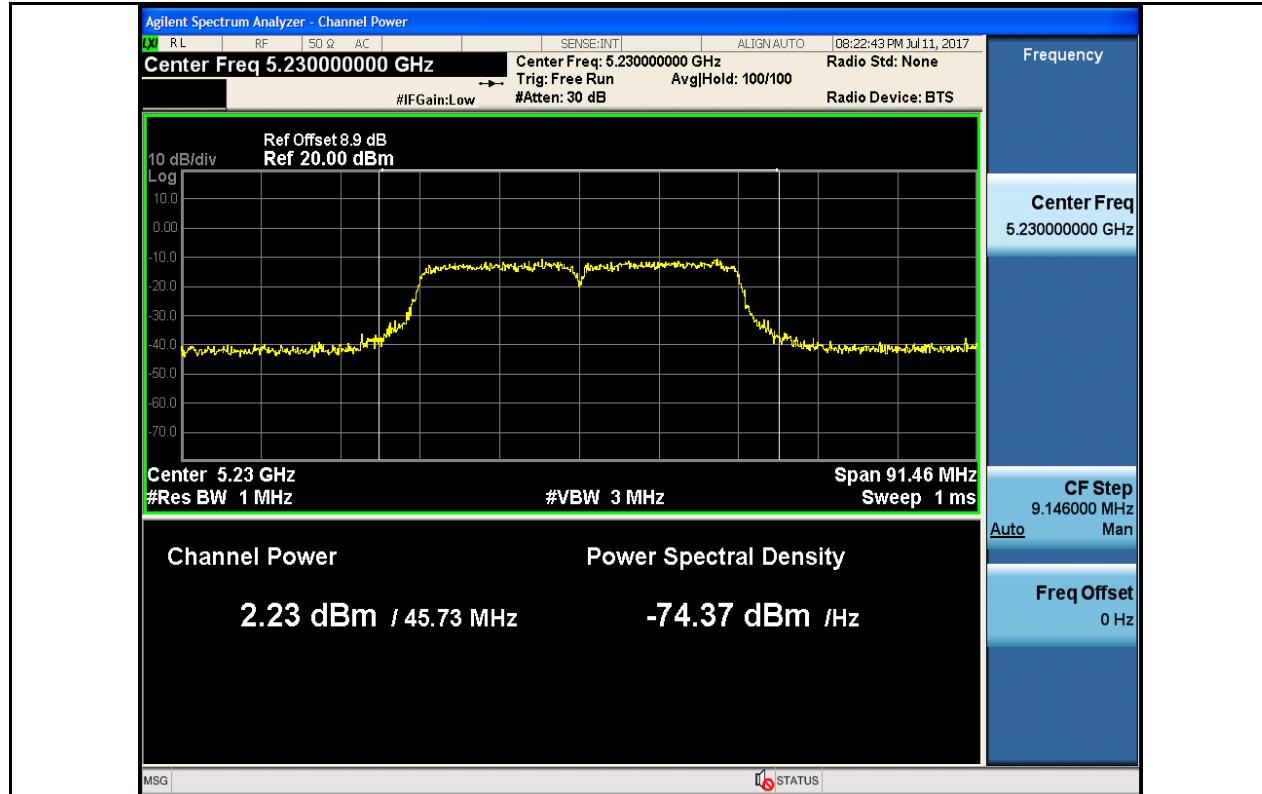












3. Maximum Power Spectral Density

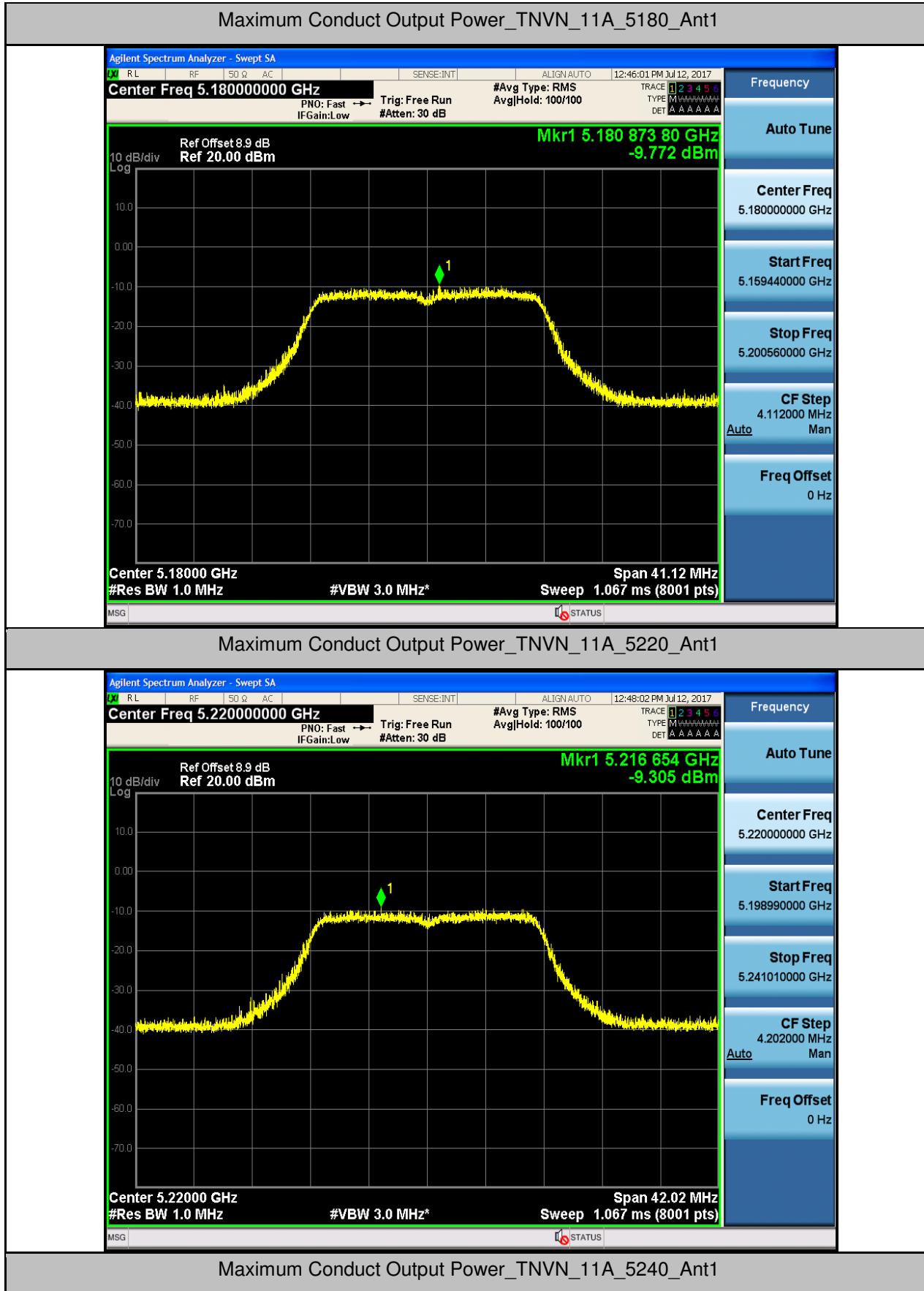
| Test Mode | Test Channel | Ant | Level [dBm/MHz] | 10log(1/x) Factor [dB] | PSD [dBm/MHz] | Limit [dBm/MHz] | Verdict |
|-----------|--------------|------|-----------------|------------------------|---------------|-----------------|---------|
| 11A | 5180 | Ant1 | -9.772 | 1.09858539935423 | -8.673 | 17.00 | PASS |
| 11A | 5220 | Ant1 | -9.305 | 1.1650890981107 | -8.14 | 17.00 | PASS |
| 11A | 5240 | Ant1 | -9.141 | 1.14978205137702 | -7.991 | 17.00 | PASS |
| 11N20 | 5180 | Ant1 | -9.03 | 0.56406567231631 | -8.466 | 17.00 | PASS |
| 11N20 | 5220 | Ant1 | -9.701 | 0.56406567231631 | -9.137 | 17.00 | PASS |
| 11N20 | 5240 | Ant1 | -10.237 | 0.56406567231631 | -9.673 | 17.00 | PASS |
| 11N40 | 5190 | Ant1 | -12.274 | 0.811836096396205 | -11.462 | 17.00 | PASS |
| 11N40 | 5230 | Ant1 | -12.323 | 0.801377464444619 | -11.522 | 17.00 | PASS |

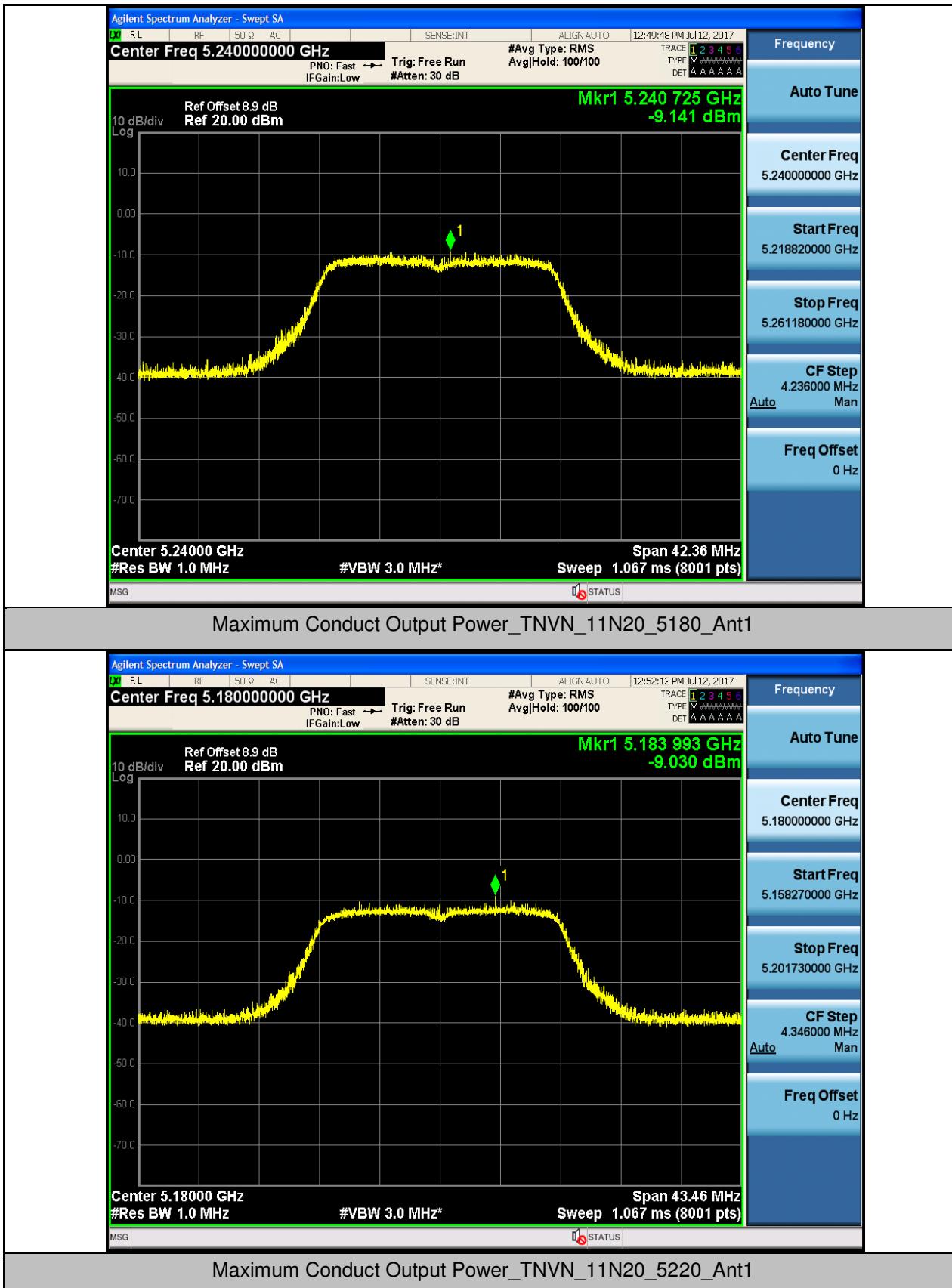
| Test Mode | Test Channel | Ant | Level [dBm/MHz] | 10log(1/x) Factor [dB] | PSD [dBm/MHz] | Limit [dBm/MHz] | Verdict |
|-----------|--------------|------|-----------------|------------------------|---------------|-----------------|---------|
| 11A | 5180 | Ant2 | -11.004 | 1.14978205137702 | -9.854 | 17.00 | PASS |
| 11A | 5220 | Ant2 | -10.41 | 1.1650890981107 | -9.245 | 17.00 | PASS |
| 11A | 5240 | Ant2 | -9.977 | 1.09858539935423 | -8.878 | 17.00 | PASS |
| 11N20 | 5180 | Ant2 | -11.549 | 0.595831353183348 | -10.953 | 17.00 | PASS |
| 11N20 | 5220 | Ant2 | -10.803 | 0.591847913491986 | -10.211 | 17.00 | PASS |
| 11N20 | 5240 | Ant2 | -10.704 | 0.56406567231631 | -10.14 | 17.00 | PASS |
| 11N40 | 5190 | Ant2 | -13.265 | 0.811836096396205 | -12.453 | 17.00 | PASS |
| 11N40 | 5230 | Ant2 | -13.303 | 0.752556475200514 | -12.55 | 17.00 | PASS |

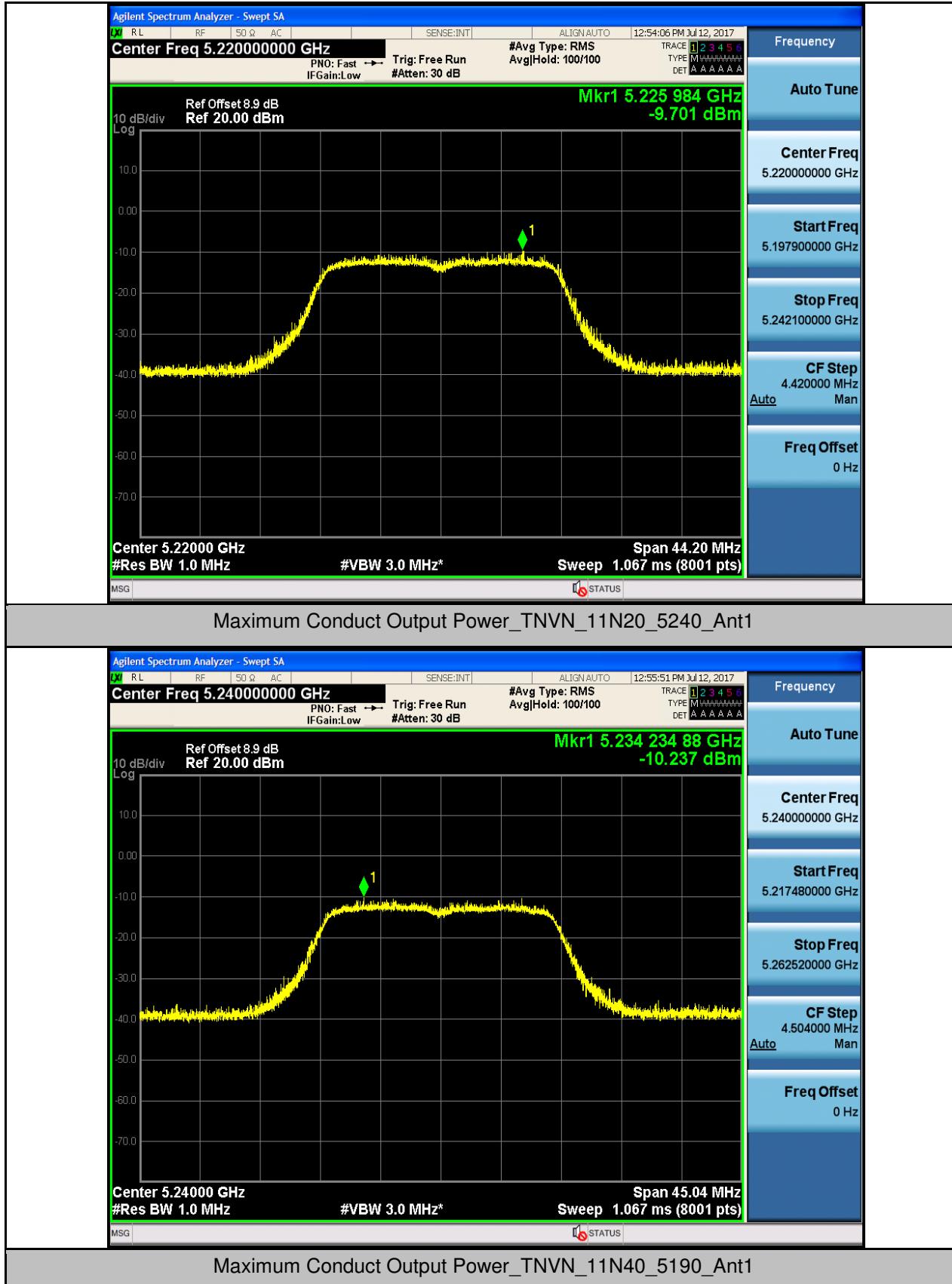
| Test Mode | Test Channel | Ant | Level [dBm/MHz] | 10log(1/x) Factor [dB] | PSD [dBm/MHz] | Limit [dBm/MHz] | Verdict |
|-----------|--------------|------|-----------------|------------------------|---------------|-----------------|---------|
| 11N20MIMO | 5180 | Ant1 | -10.679 | 0.595831353183348 | -10.083 | 17.00 | PASS |
| 11N20MIMO | 5220 | Ant1 | -9.951 | 0.591847913491986 | -9.359 | 17.00 | PASS |
| 11N20MIMO | 5240 | Ant1 | -10.819 | 0.56406567231631 | -10.255 | 17.00 | PASS |
| 11N40MIMO | 5190 | Ant1 | -11.032 | 0.801377464444619 | -10.231 | 17.00 | PASS |
| 11N40MIMO | 5230 | Ant1 | -12.185 | 0.801377464444619 | -11.384 | 17.00 | PASS |

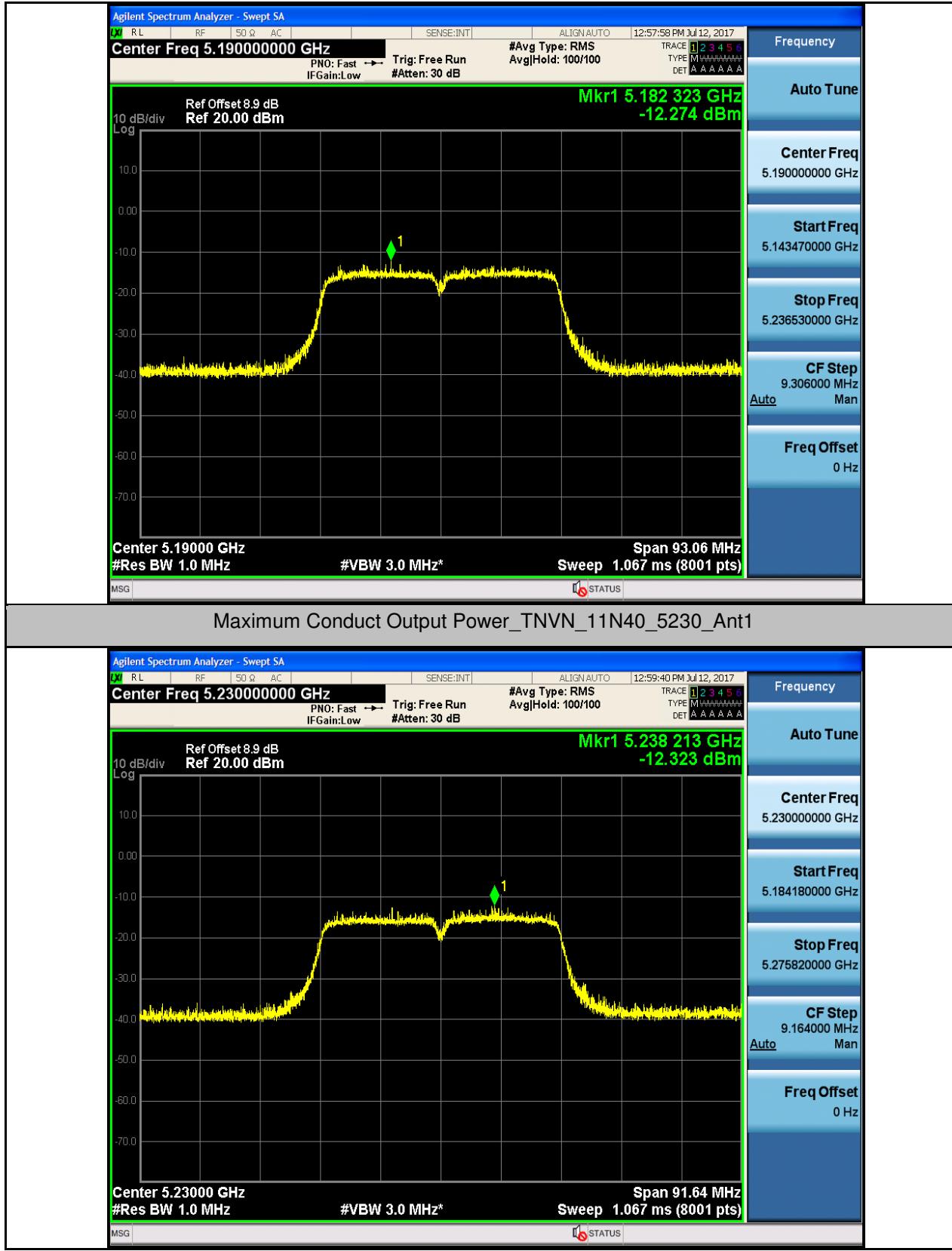
| Test Mode | Test Channel | Ant | Level [dBm/MHz] | 10log(1/x) Factor [dB] | PSD [dBm/MHz] | Limit [dBm/MHz] | Verdict |
|-----------|--------------|------|-----------------|------------------------|---------------|-----------------|---------|
| 11N20MIMO | 5180 | Ant2 | -12.053 | 0.591847913491986 | -11.461 | 17.00 | PASS |
| 11N20MIMO | 5220 | Ant2 | -11.377 | 0.591847913491986 | -10.785 | 17.00 | PASS |
| 11N20MIMO | 5240 | Ant2 | -11.488 | 0.56406567231631 | -10.924 | 17.00 | PASS |
| 11N40MIMO | 5190 | Ant2 | -12.773 | 0.811836096396205 | -11.961 | 17.00 | PASS |
| 11N40MIMO | 5230 | Ant2 | -11.939 | 0.801377464444619 | -11.138 | 17.00 | PASS |

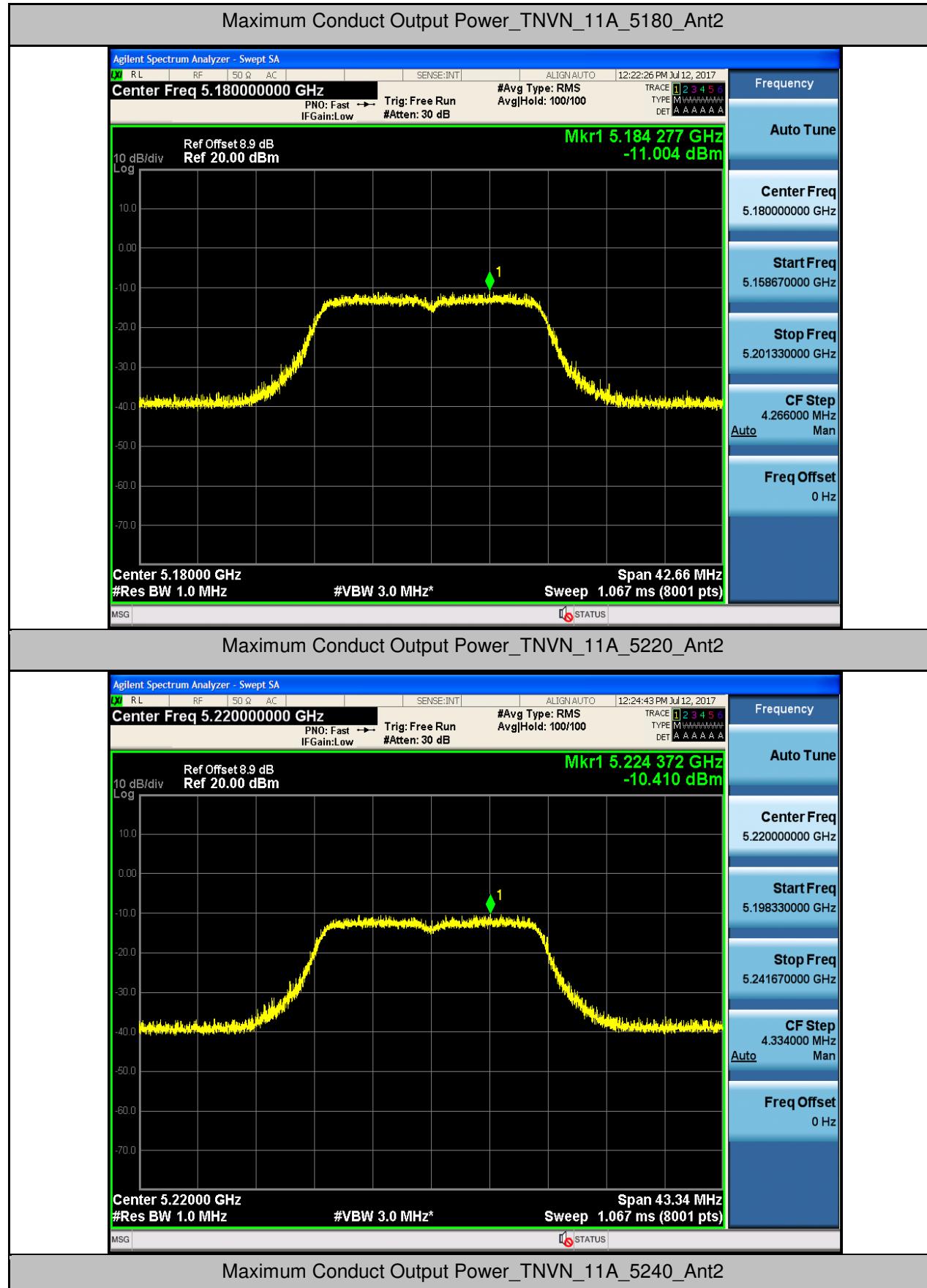
| Test Mode | Test Channel | Ant1 Level [dBm/MHz] | Ant2 Level [dBm/MHz] | PSD [dBm/MHz] | Limit [dBm/MHz] | Verdict |
|-----------|--------------|----------------------|----------------------|---------------|-----------------|---------|
| 11N20MIMO | 5180 | -10.083 | -11.461 | -7.71 | 17.00 | PASS |
| 11N20MIMO | 5220 | -9.359 | -10.785 | -7.00 | 17.00 | PASS |
| 11N20MIMO | 5240 | -10.255 | -10.924 | -7.57 | 17.00 | PASS |
| 11N40MIMO | 5190 | -10.231 | -11.961 | -8.00 | 17.00 | PASS |
| 11N40MIMO | 5230 | -11.384 | -11.138 | -8.25 | 17.00 | PASS |

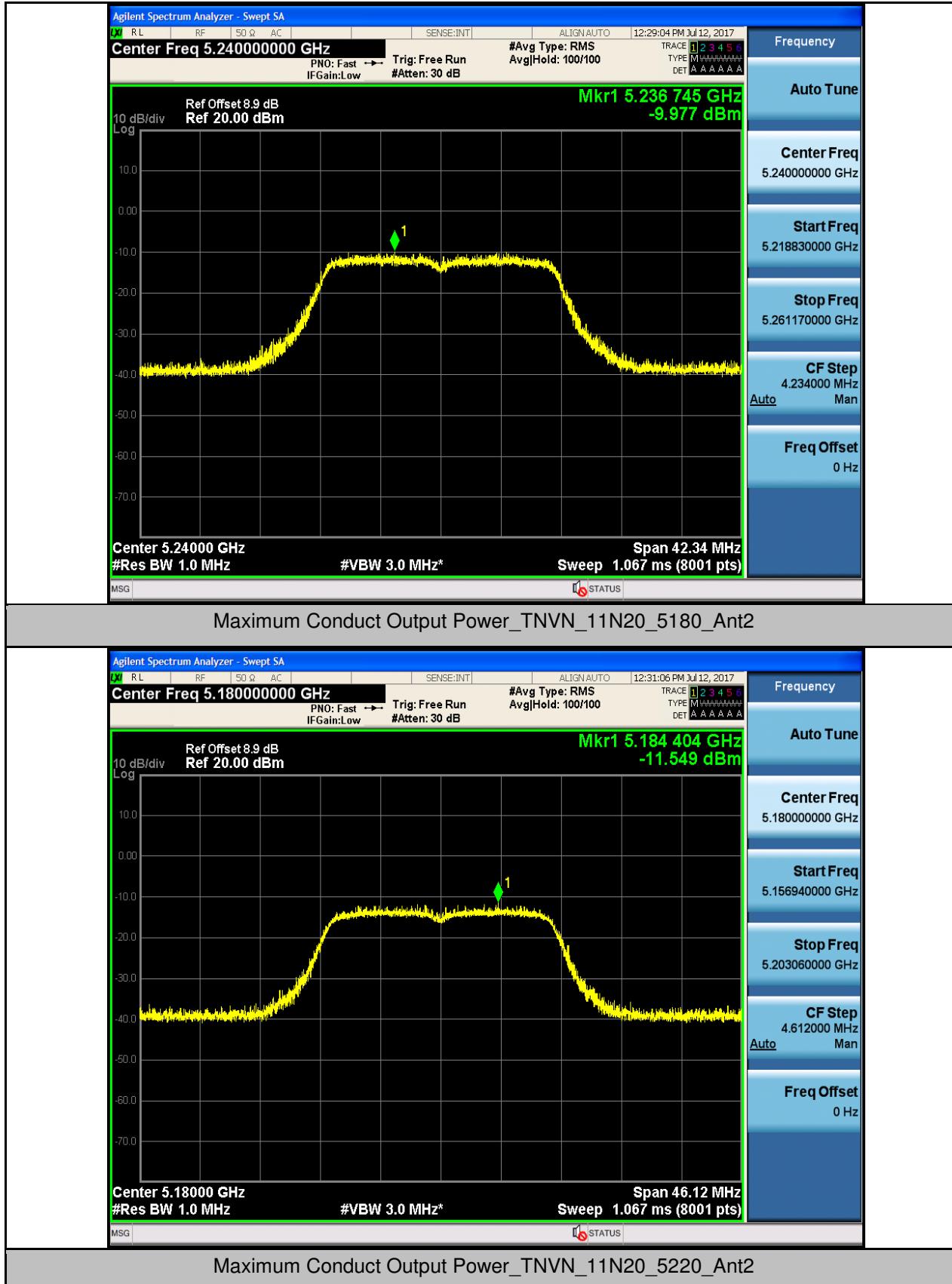


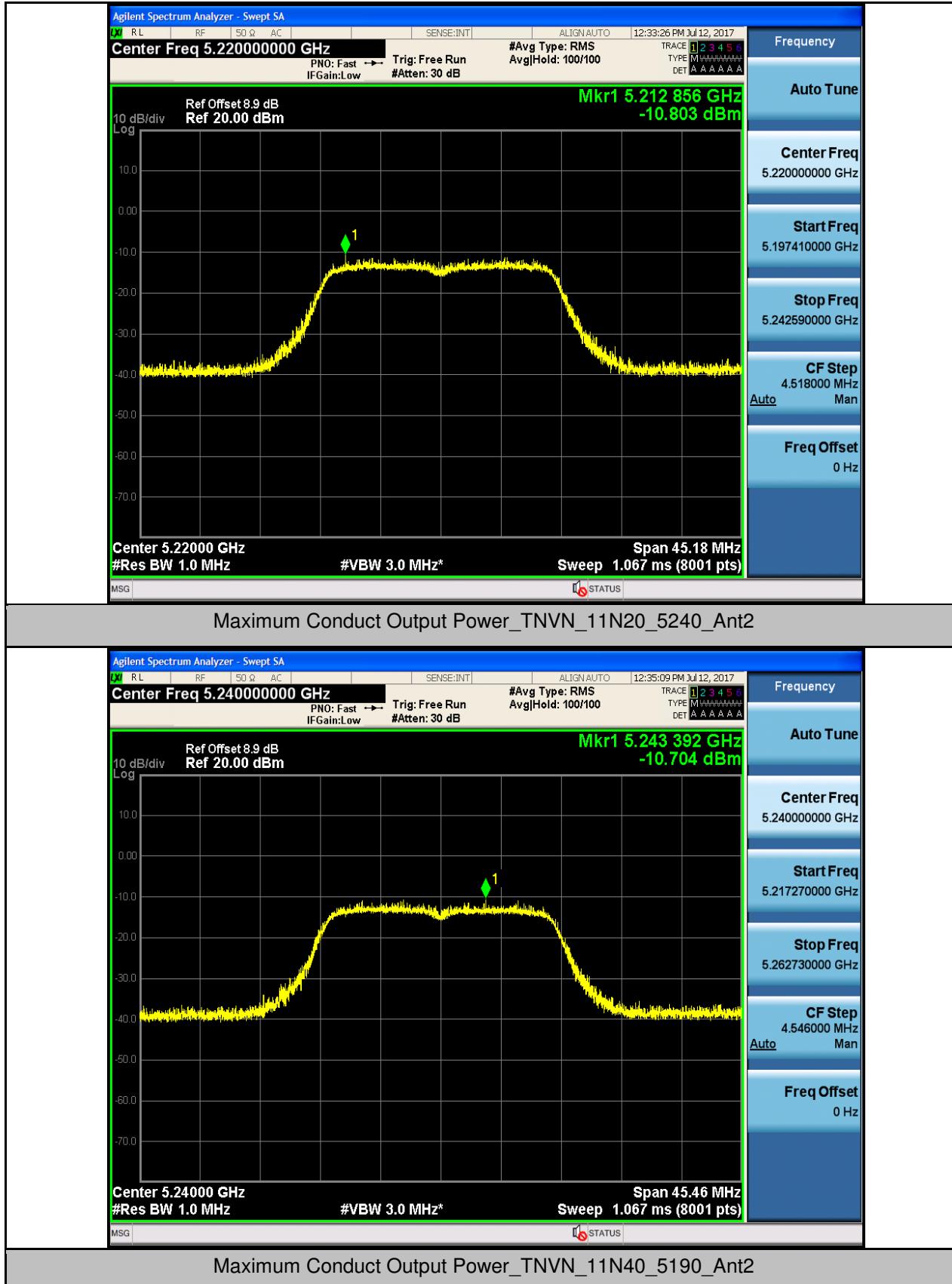


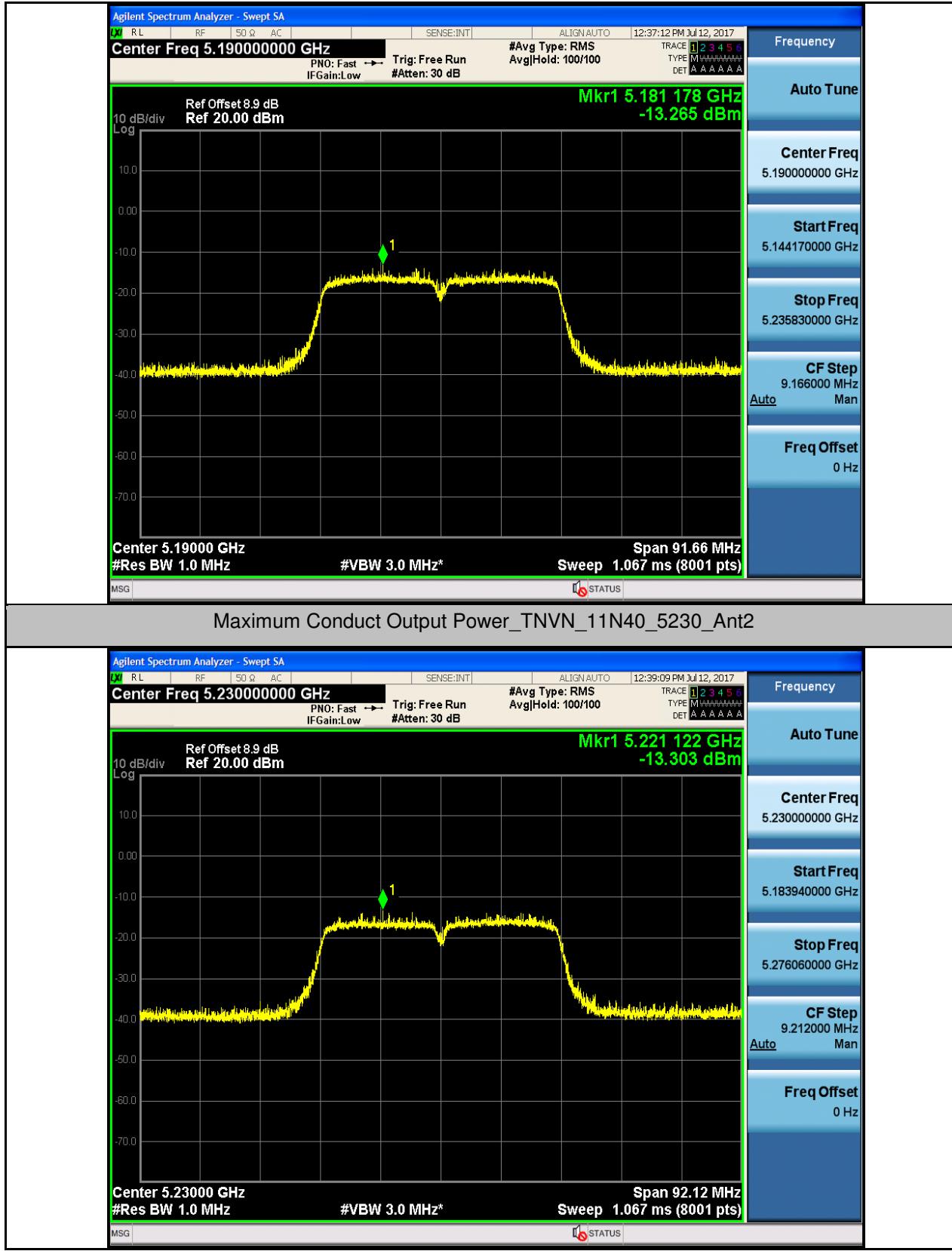


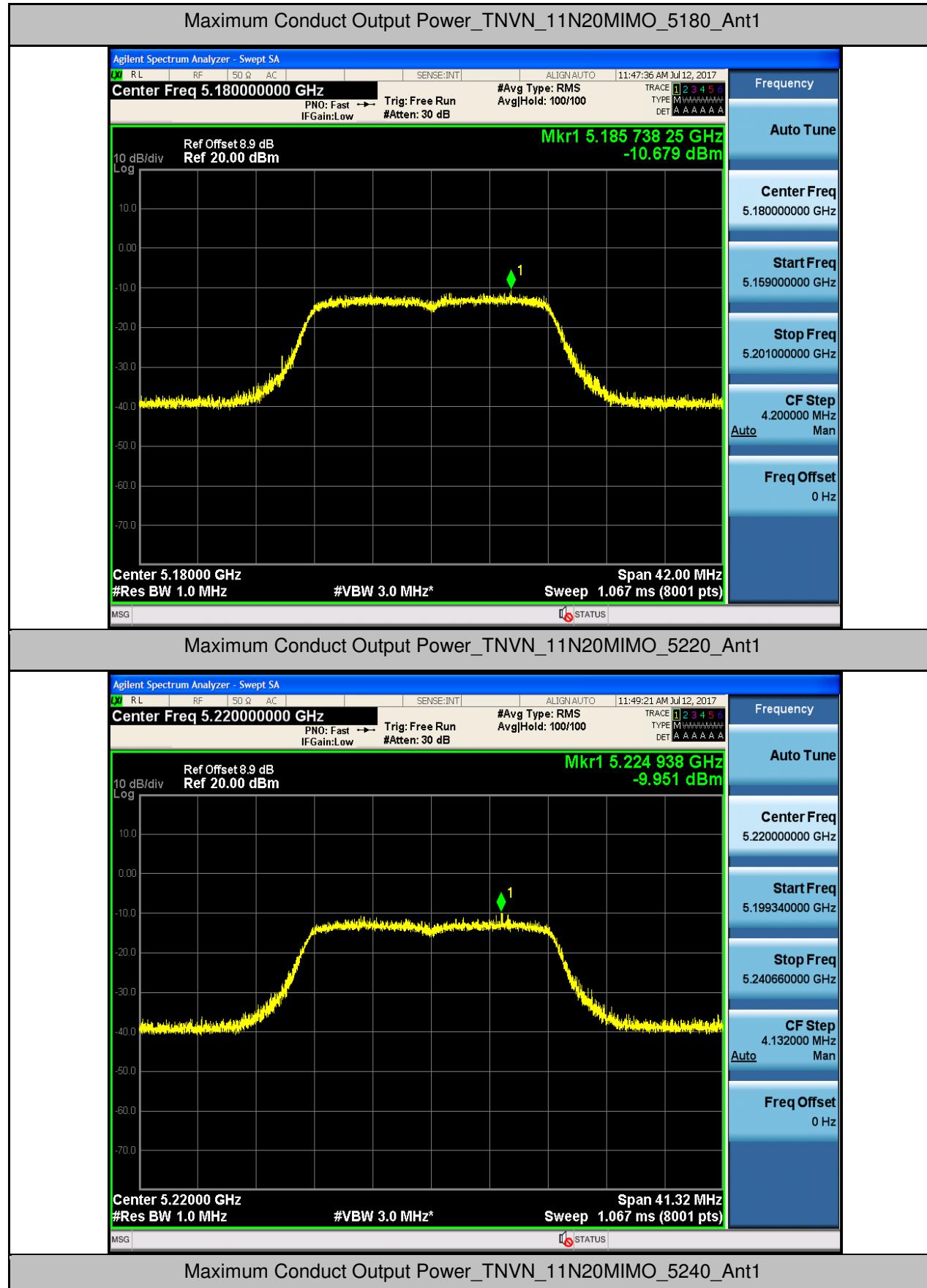


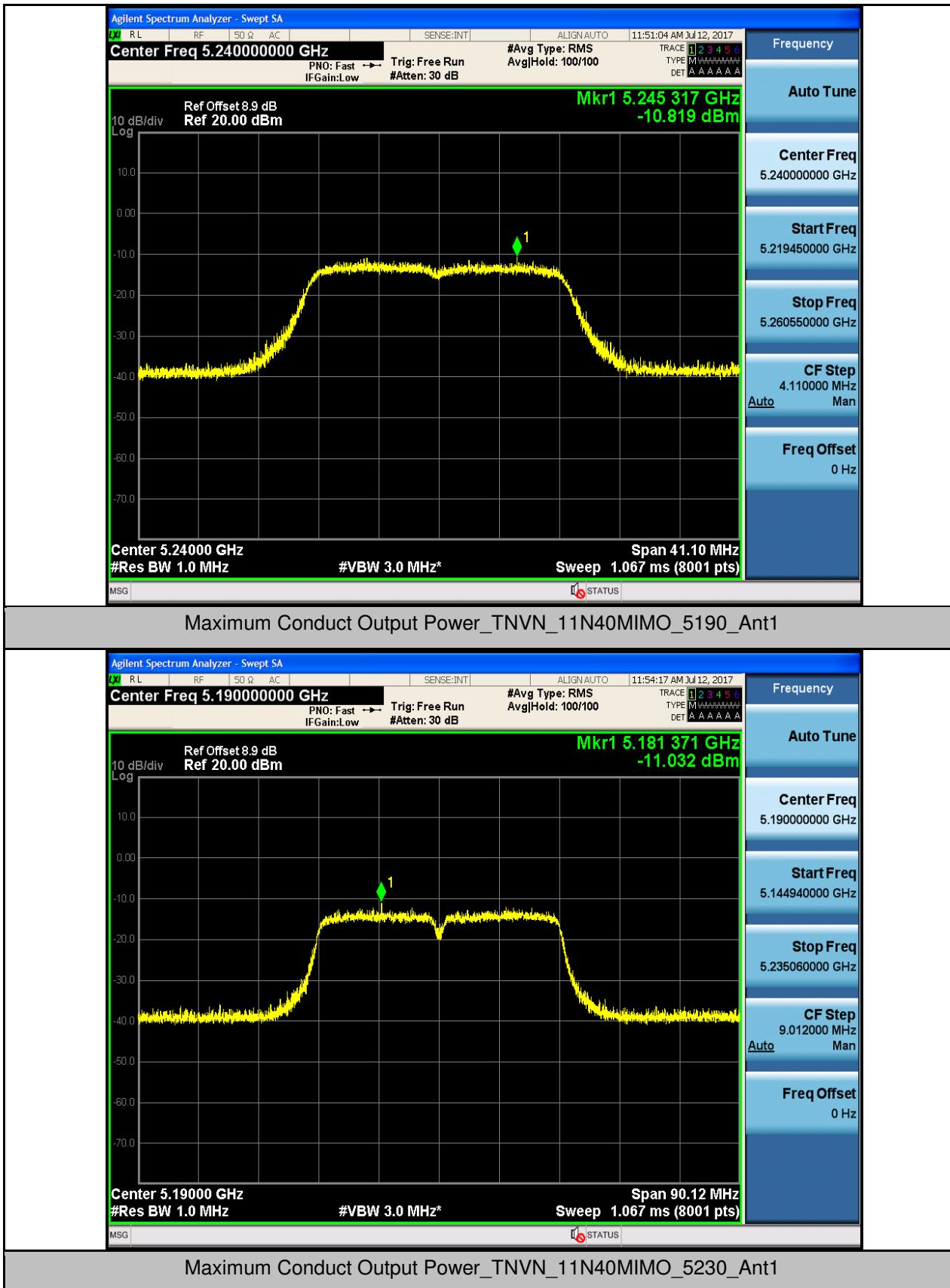


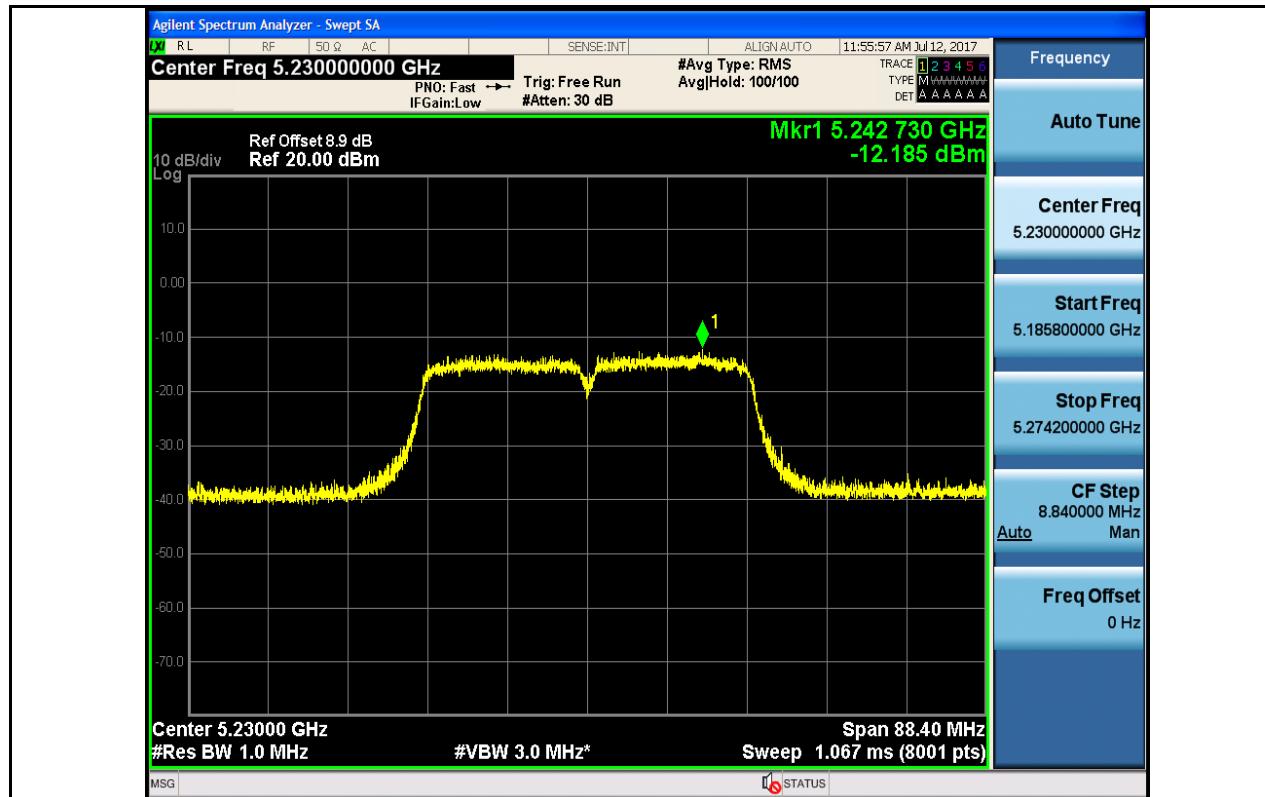


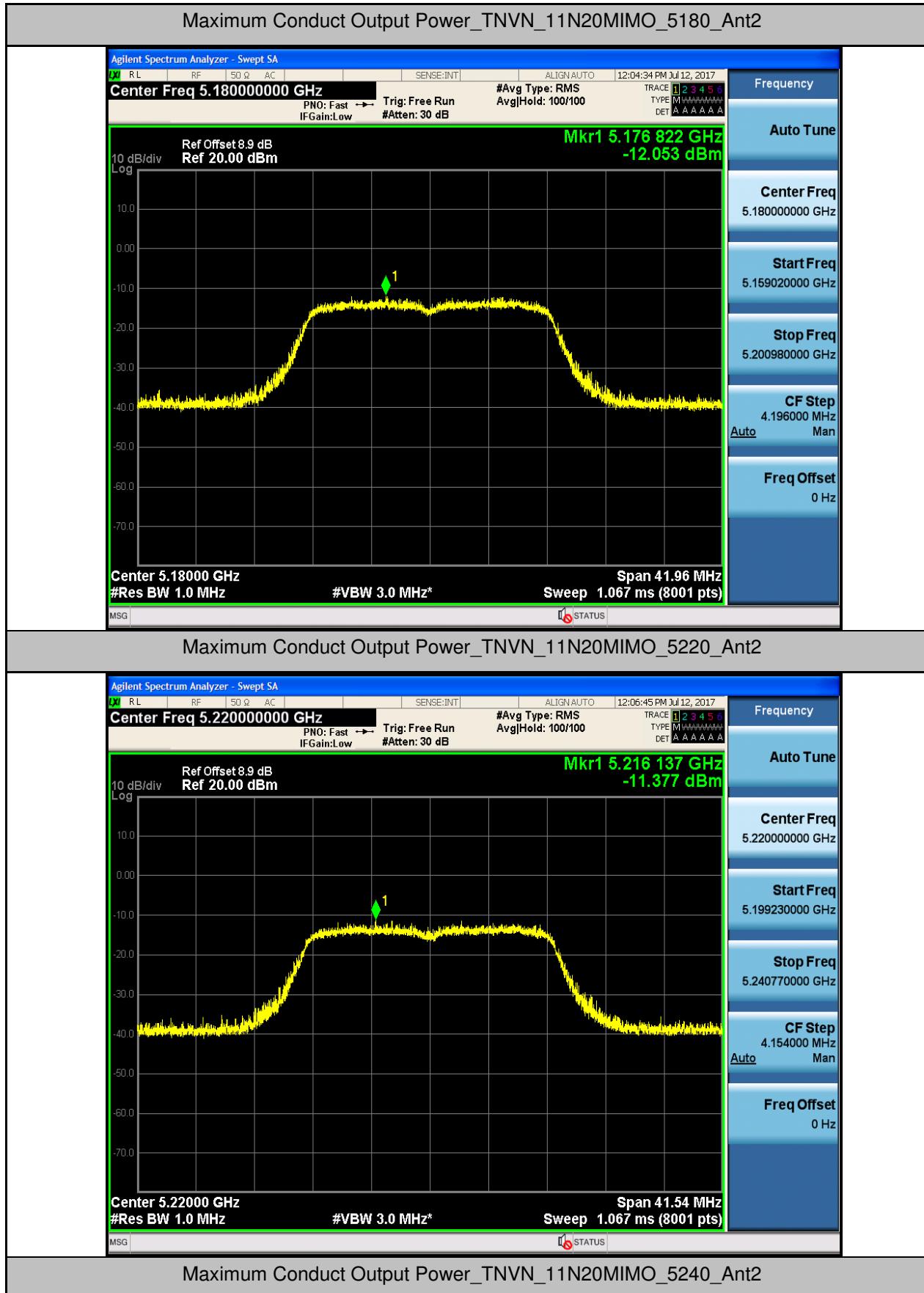


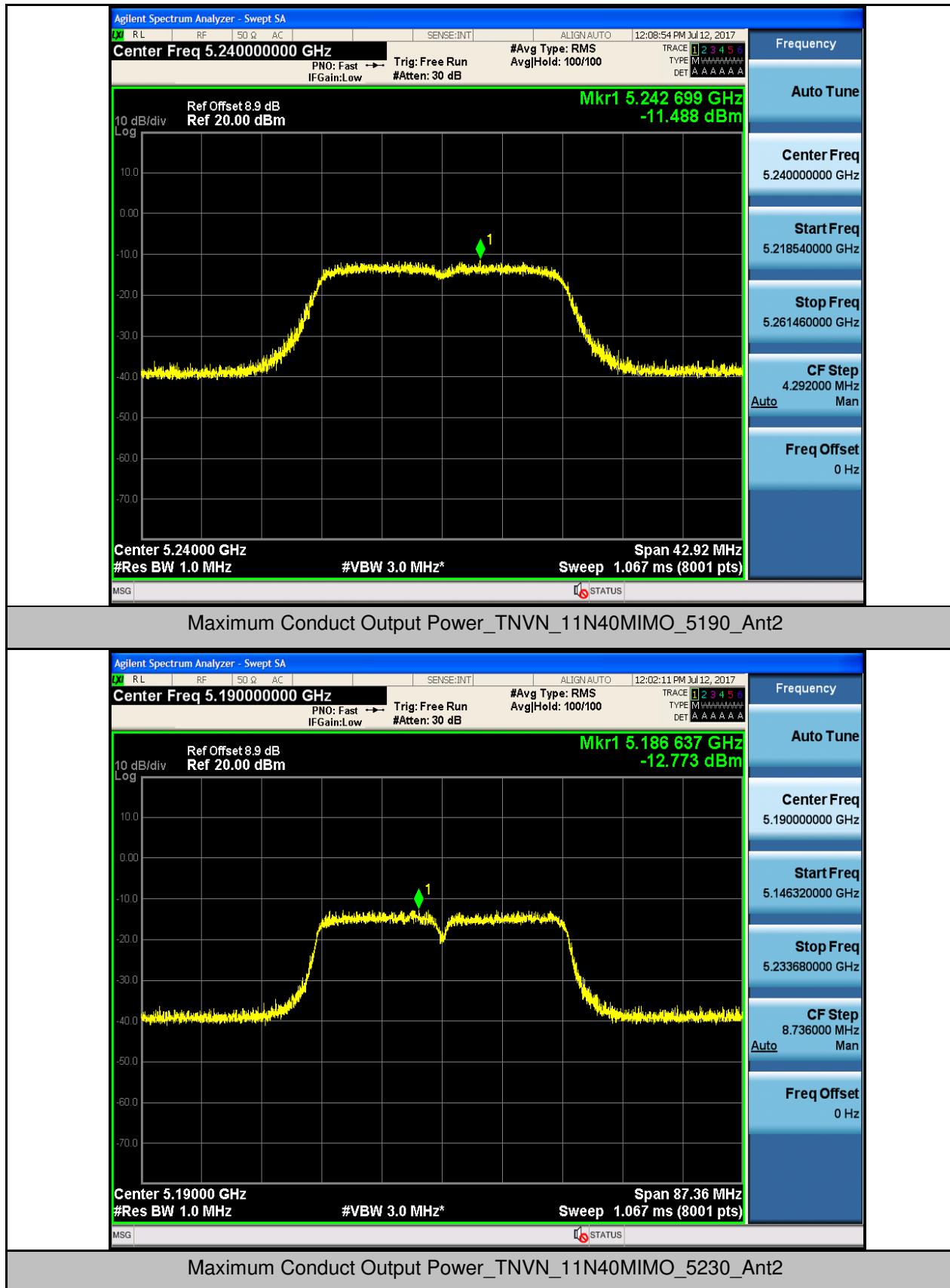


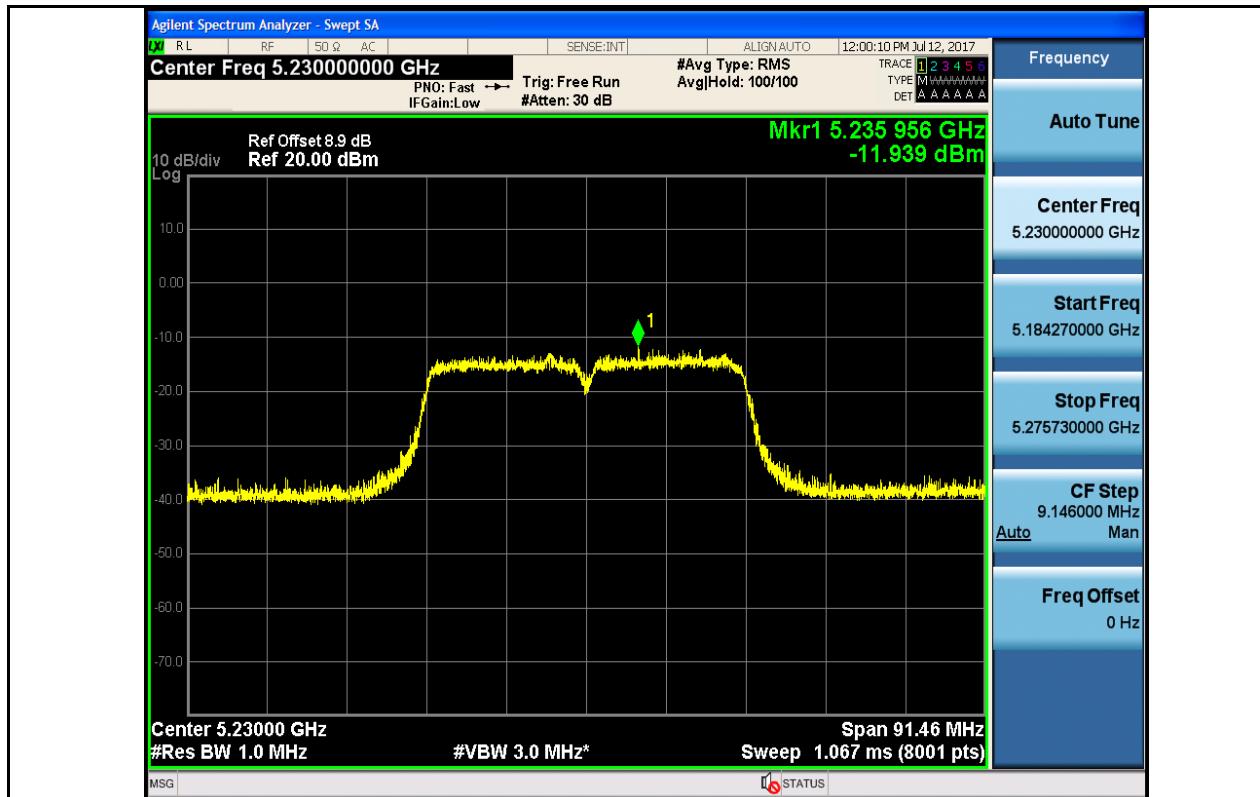












4.Duty Cycle (x)

| Test Mode | Test Channel | Ant | Duty Cycle[%] | 10log(1/x) Factor[dB] |
|-----------|--------------|------|---------------|-----------------------|
| 11A | 5180 | Ant1 | 77.65 | 1.09858539935423 |
| 11A | 5220 | Ant1 | 76.47 | 1.1650890981107 |
| 11A | 5240 | Ant1 | 76.74 | 1.14978205137702 |
| 11N20 | 5180 | Ant1 | 87.82 | 0.56406567231631 |
| 11N20 | 5220 | Ant1 | 87.82 | 0.56406567231631 |
| 11N20 | 5240 | Ant1 | 87.82 | 0.56406567231631 |
| 11N40 | 5190 | Ant1 | 82.95 | 0.811836096396205 |
| 11N40 | 5230 | Ant1 | 83.15 | 0.801377464444619 |

| Test Mode | Test Channel | Ant | Duty Cycle[%] | 10log(1/x) Factor[dB] |
|-----------|--------------|------|---------------|-----------------------|
| 11A | 5180 | Ant2 | 76.74 | 1.14978205137702 |
| 11A | 5220 | Ant2 | 76.47 | 1.1650890981107 |
| 11A | 5240 | Ant2 | 77.65 | 1.09858539935423 |
| 11N20 | 5180 | Ant2 | 87.18 | 0.595831353183348 |
| 11N20 | 5220 | Ant2 | 87.26 | 0.591847913491986 |
| 11N20 | 5240 | Ant2 | 87.82 | 0.56406567231631 |
| 11N40 | 5190 | Ant2 | 82.95 | 0.811836096396205 |
| 11N40 | 5230 | Ant2 | 84.09 | 0.752556475200514 |

| Test Mode | Test Channel | Ant | Duty Cycle[%] | 10log(1/x) Factor[dB] |
|-----------|--------------|------|---------------|-----------------------|
| 11N20MIMO | 5180 | Ant1 | 87.18 | 0.595831353183348 |
| 11N20MIMO | 5220 | Ant1 | 87.26 | 0.591847913491986 |
| 11N20MIMO | 5240 | Ant1 | 87.82 | 0.56406567231631 |
| 11N40MIMO | 5190 | Ant1 | 83.15 | 0.801377464444619 |
| 11N40MIMO | 5230 | Ant1 | 83.15 | 0.801377464444619 |

| Test Mode | Test Channel | Ant | Duty Cycle[%] | 10log(1/x) Factor[dB] |
|-----------|--------------|------|---------------|-----------------------|
| 11N20MIMO | 5180 | Ant2 | 87.26 | 0.591847913491986 |
| 11N20MIMO | 5220 | Ant2 | 87.26 | 0.591847913491986 |
| 11N20MIMO | 5240 | Ant2 | 87.82 | 0.56406567231631 |
| 11N40MIMO | 5190 | Ant2 | 82.95 | 0.811836096396205 |
| 11N40MIMO | 5230 | Ant2 | 83.15 | 0.801377464444619 |

