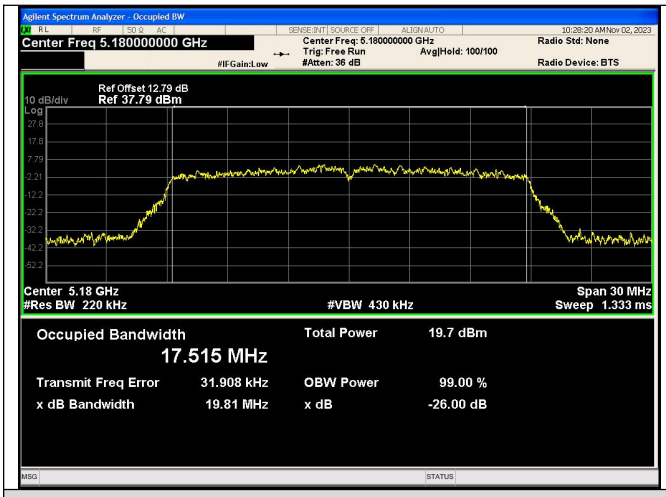
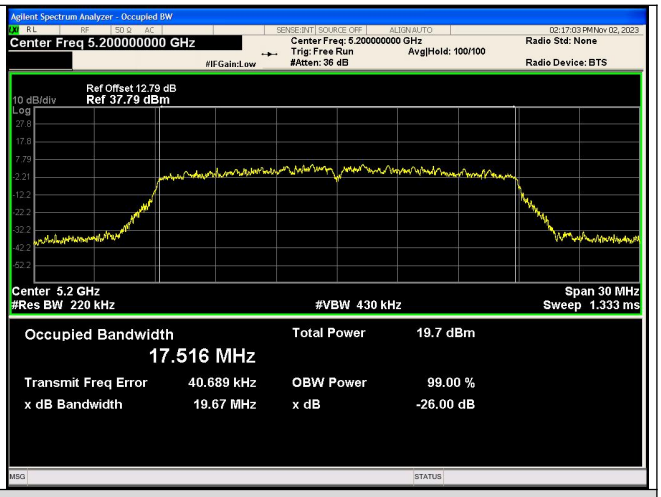
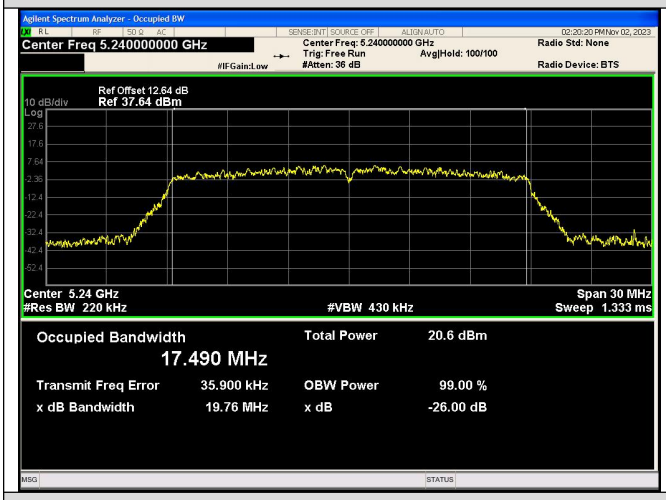


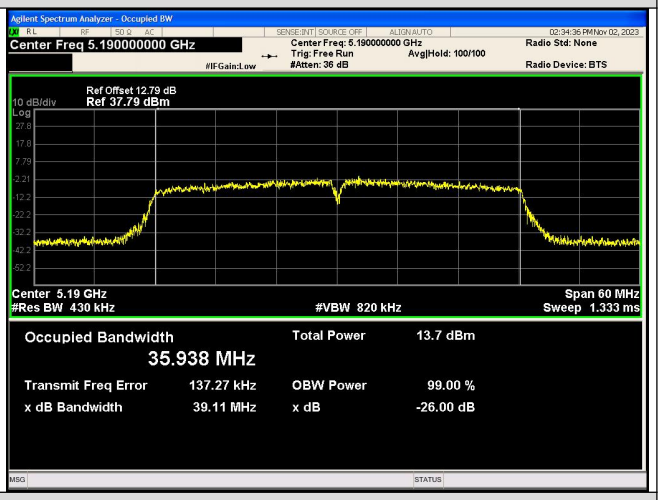

IEEE 802.11ac_Channel 36_20MHz_Antenna 0



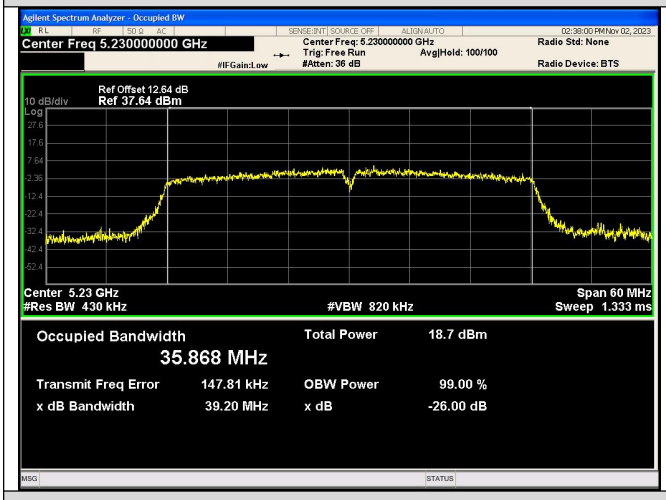

IEEE 802.11ac_Channel 40_20MHz_Antenna 0



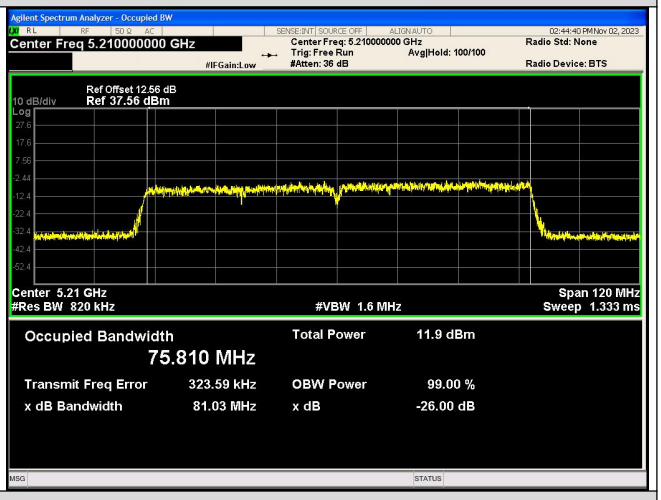

IEEE 802.11ac_Channel 48_20MHz_Antenna 0




IEEE 802.11ac_Channel 38_40MHz_Antenna 0




IEEE 802.11ac_Channel 46_40MHz_Antenna 0



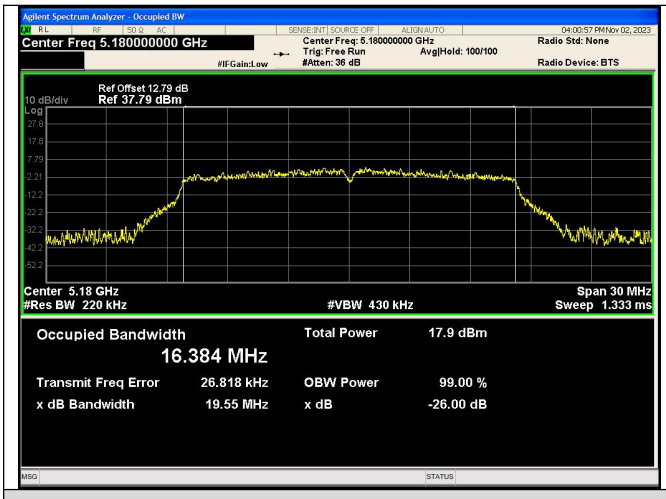

IEEE 802.11ac_Channel 42_80MHz_Antenna 0

Antenna 2:

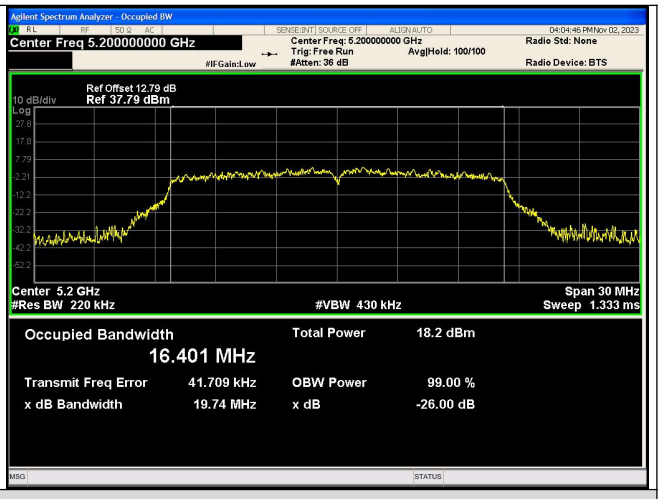
**Test Result**

| Mode | Channel | Ant. | Center Frequency (MHz) | 26 dB Bandwidth (MHz) | RBW/EBW |
|---|---|---|---|---|---|
| IEEE 802.11a | 36 | 2 | 5180 | 19.55 | 1.1 |
| | 40 | | 5200 | 19.74 | 1.09 |
| | 48 | | 5240 | 19.46 | 1.12 |
| IEEE 802.11n_20 | 36 | | 5180 | 19.97 | 1.11 |
| | 40 | | 5200 | 19.88 | 1.11 |
| | 48 | | 5240 | 19.54 | 1.12 |
| IEEE 802.11n_40 | 38 | | 5190 | 39.97 | 1.05 |
| | 46 | | 5230 | 39.18 | 1.06 |
| IEEE 802.11ac_20 | 36 | | 5180 | 19.74 | 1.11 |
| | 40 | | 5200 | 19.83 | 1.11 |
| | 48 | | 5240 | 19.77 | 1.11 |
| IEEE 802.11ac_40 | 38 | | 5190 | 39.45 | 1.05 |
| | 46 | | 5230 | 39.31 | 1.07 |
| IEEE 802.11ac_80 | 42 | | 5210 | 80.71 | 1.03 |

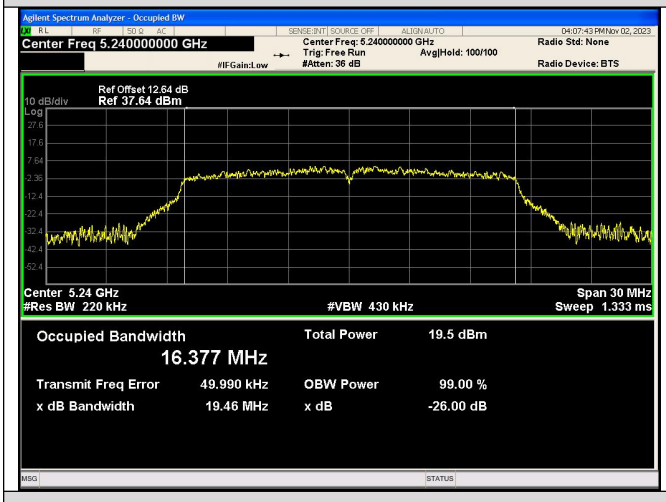
**Test Graphs**



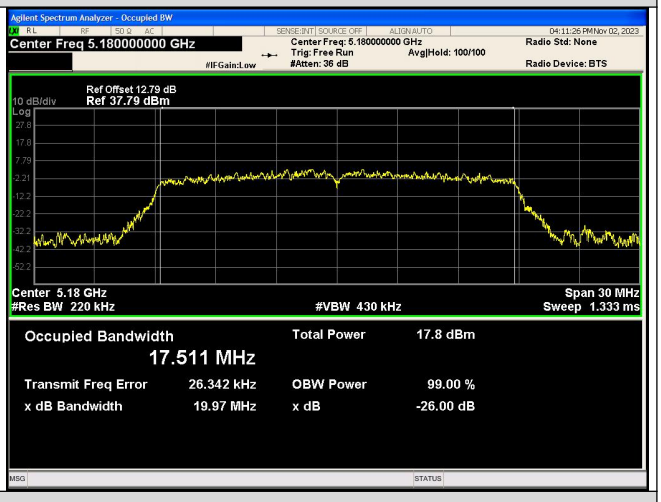

IEEE 802.11a_Channel 36_20MHz_Antenna 0



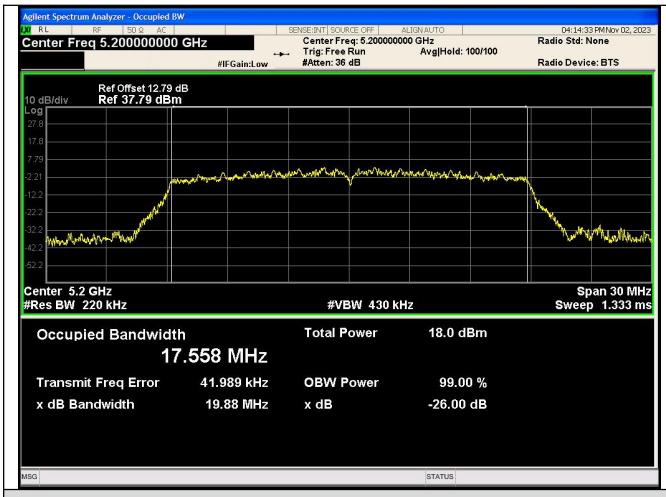

IEEE 802.11a_Channel 40_20MHz_Antenna 0



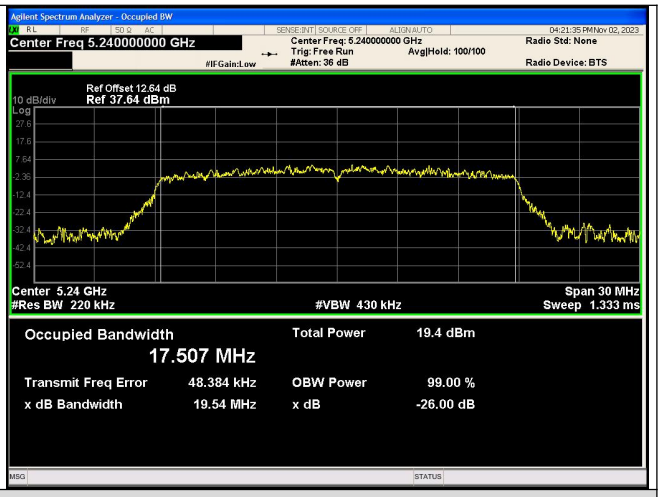

IEEE 802.11a_Channel 48_20MHz_Antenna 0



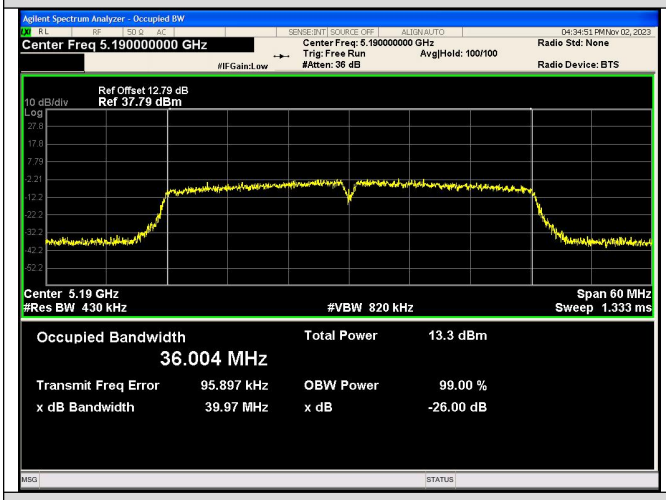

IEEE 802.11n_Channel 36_20MHz_Antenna 0



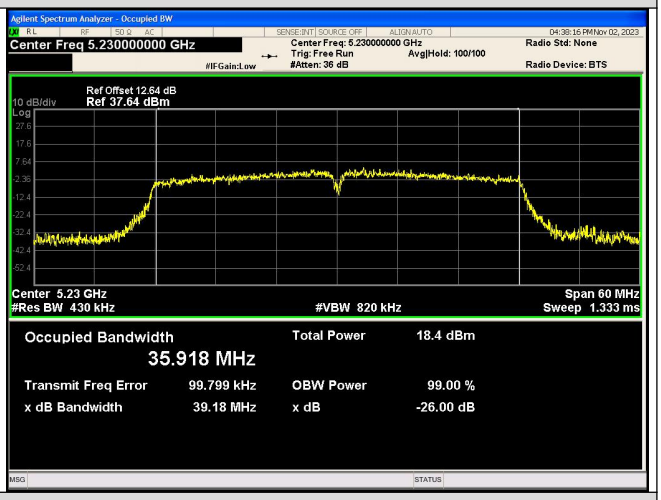

IEEE 802.11n_Channel 40_20MHz_Antenna 0



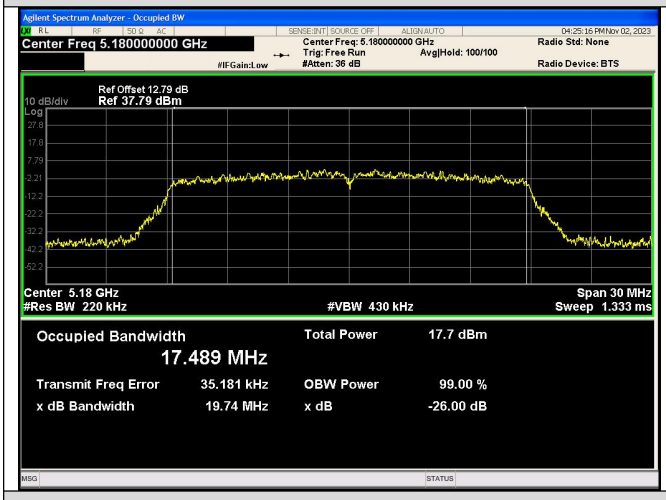

IEEE 802.11n_Channel 48_20MHz_Antenna 0



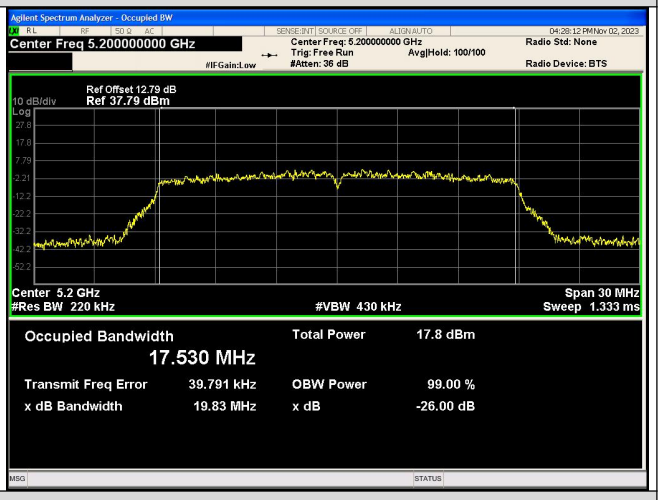

IEEE 802.11n_Channel 38_40MHz_Antenna 0



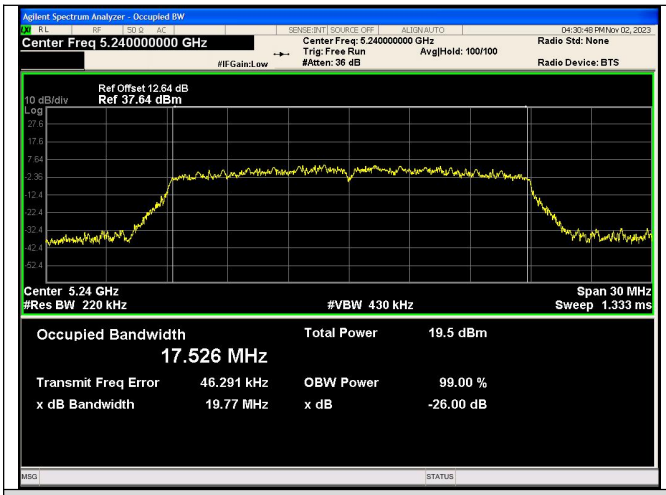

IEEE 802.11n_Channel 46_40MHz_Antenna 0



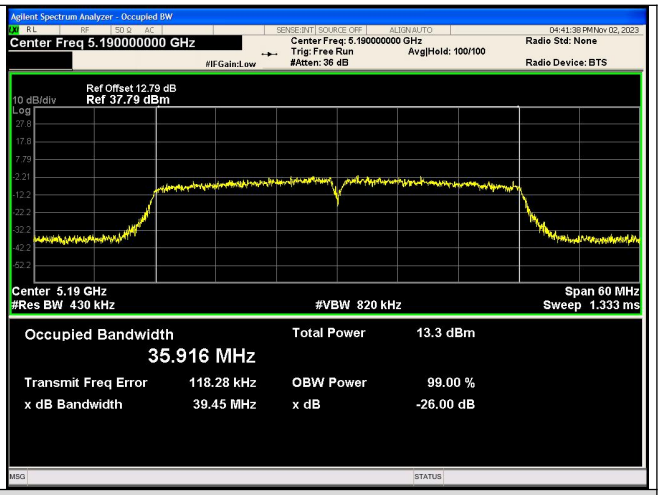

IEEE 802.11ac_Channel 36_20MHz_Antenna 0



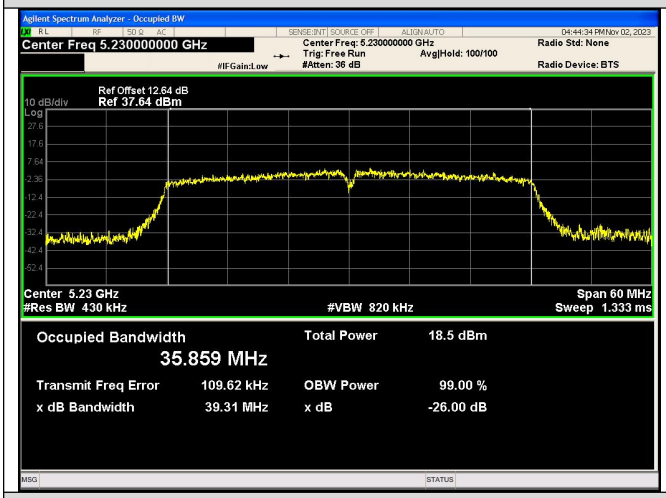

IEEE 802.11ac_Channel 40_20MHz_Antenna 0



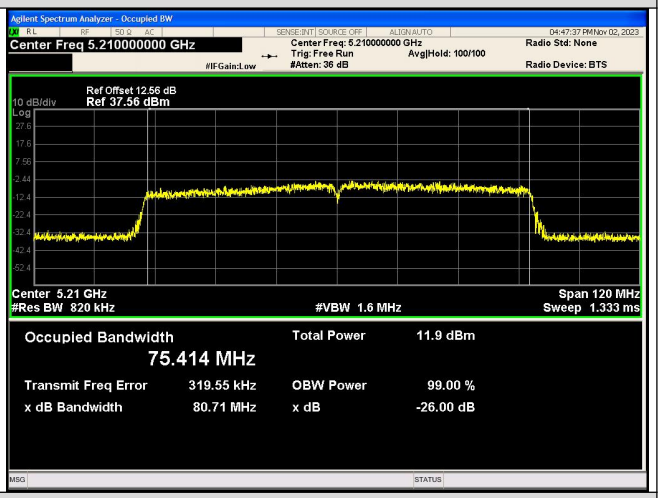

IEEE 802.11ac_Channel 48_20MHz_Antenna 0




IEEE 802.11ac_Channel 38_40MHz_Antenna 0




IEEE 802.11ac_Channel 46_40MHz_Antenna 0



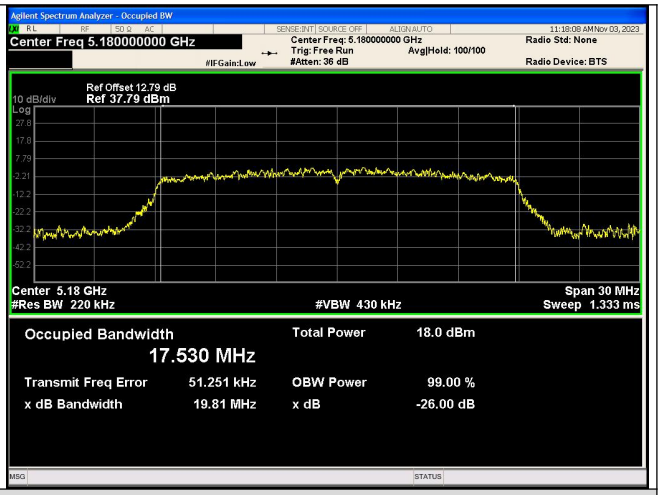

IEEE 802.11ac_Channel 42_80MHz_Antenna 0

Antenna 1+2:

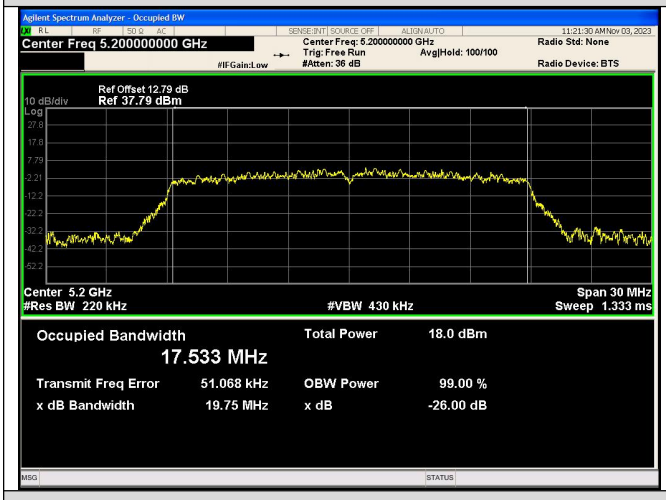
**Test Result**

| Mode | Channel | Ant. | Center Frequency (MHz) | 26 dB Bandwidth (MHz) | RBW/EBW |
|---|---|---|---|---|---|
| IEEE 802.11n_20 | 36 | 1+2 | 5180 | 19.81 | 1.11 |
| | 40 | | 5200 | 19.75 | 1.11 |
| | 48 | | 5240 | 19.52 | 1.13 |
| IEEE 802.11n_40 | 38 | | 5190 | 40.14 | 1.05 |
| | 46 | | 5230 | 39.60 | 1.06 |
| IEEE 802.11ac_20 | 36 | | 5180 | 19.83 | 1.12 |
| | 40 | | 5200 | 19.78 | 1.11 |
| | 48 | | 5240 | 19.65 | 1.13 |
| IEEE 802.11ac_40 | 38 | | 5190 | 40.04 | 1.05 |
| | 46 | | 5230 | 39.48 | 1.06 |
| IEEE 802.11ac_80 | 42 | | 5210 | 79.87 | 1.04 |

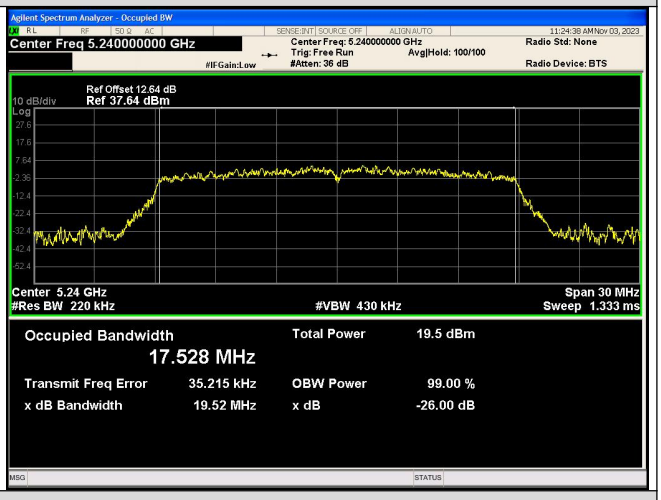
**Test Graphs**



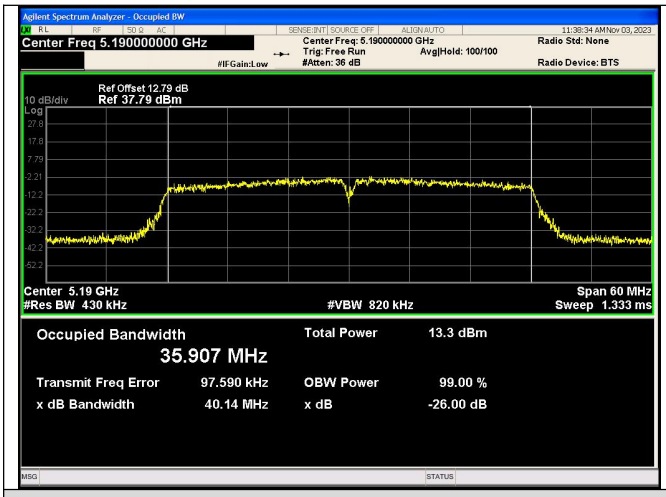

IEEE 802.11n_Channel 36_20MHz_Antenna 0



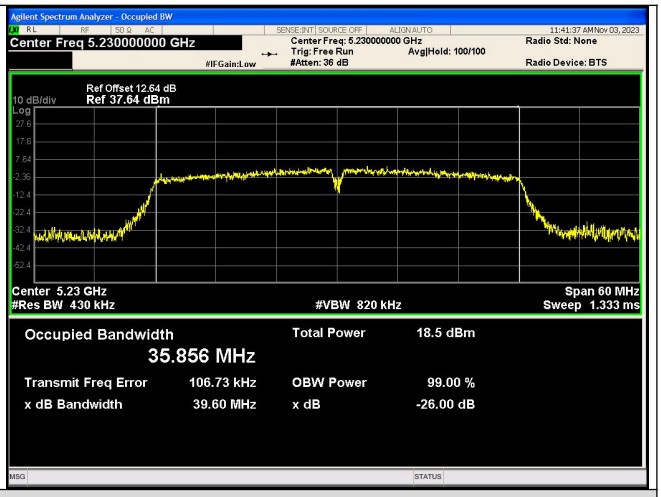

IEEE 802.11n_Channel 40_20MHz_Antenna 0



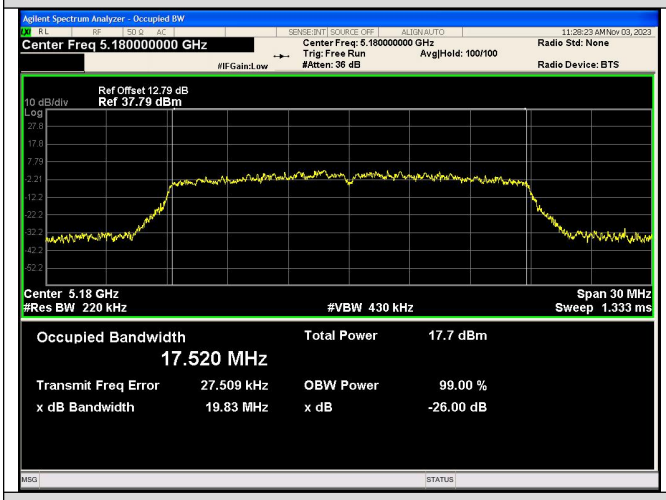

IEEE 802.11n_Channel 48_20MHz_Antenna 0



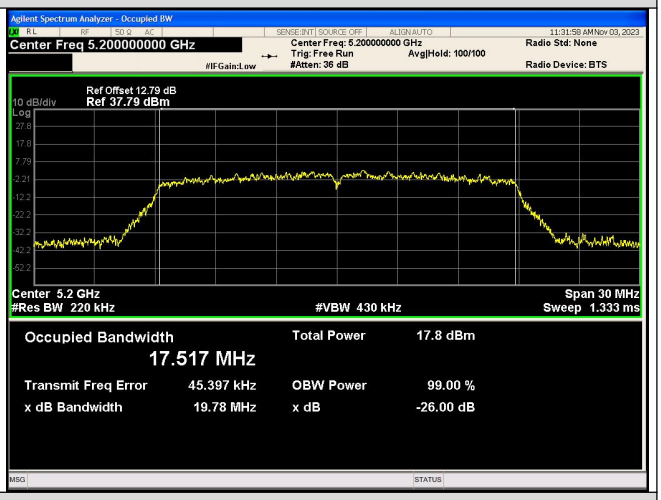

IEEE 802.11n_Channel 38_40MHz_Antenna 0



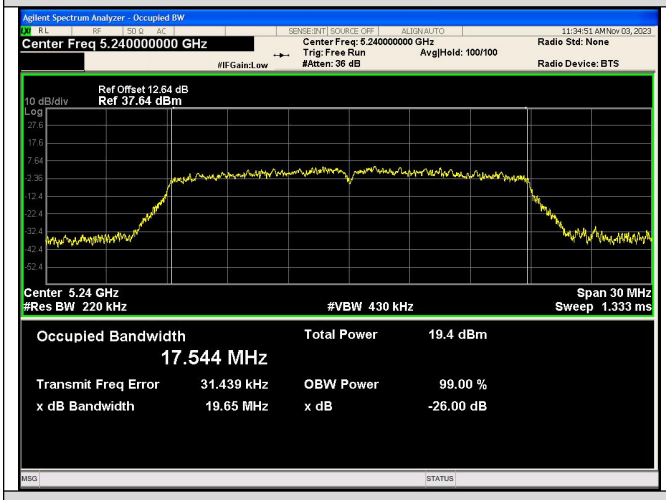

IEEE 802.11n_Channel 46_40MHz_Antenna 0



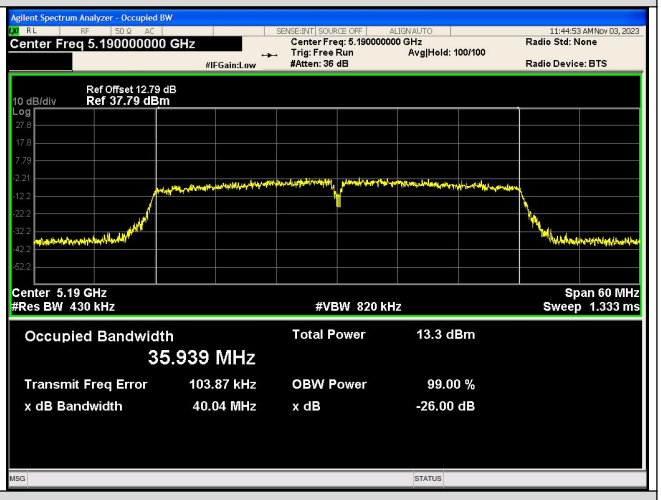

IEEE 802.11ac_Channel 36_20MHz_Antenna 0



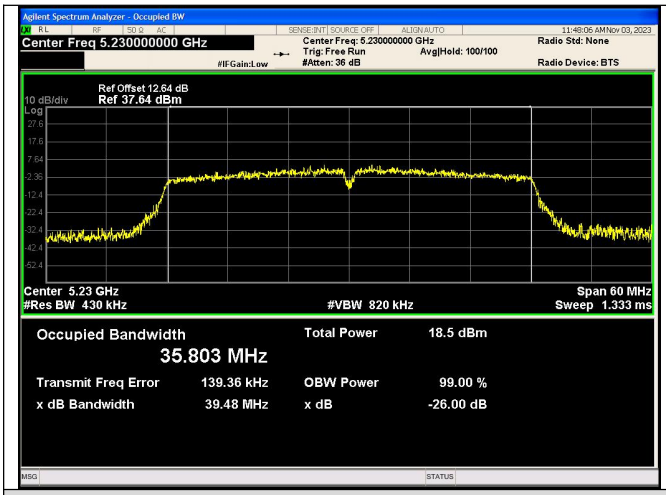

IEEE 802.11ac_Channel 40_20MHz_Antenna 0



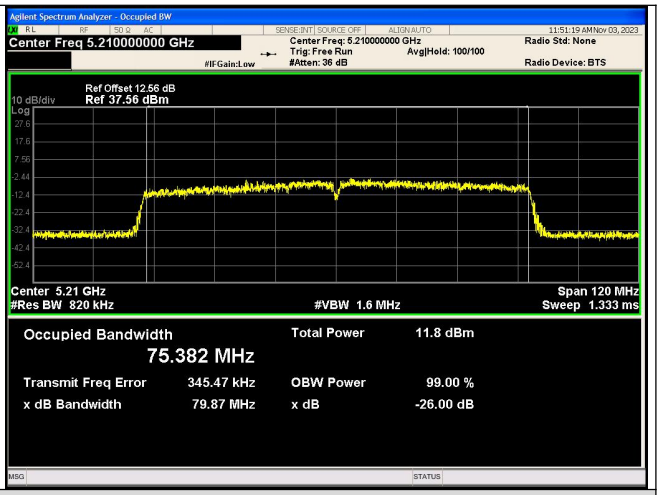

IEEE 802.11ac_Channel 48_20MHz_Antenna 0




IEEE 802.11ac_Channel 38_40MHz_Antenna 0




IEEE 802.11ac_Channel 46_40MHz_Antenna 0




IEEE 802.11ac_Channel 42_80MHz_Antenna 0

# APPENDIX VI.Conducted Out Of Band Emission

**Antenna 1:**

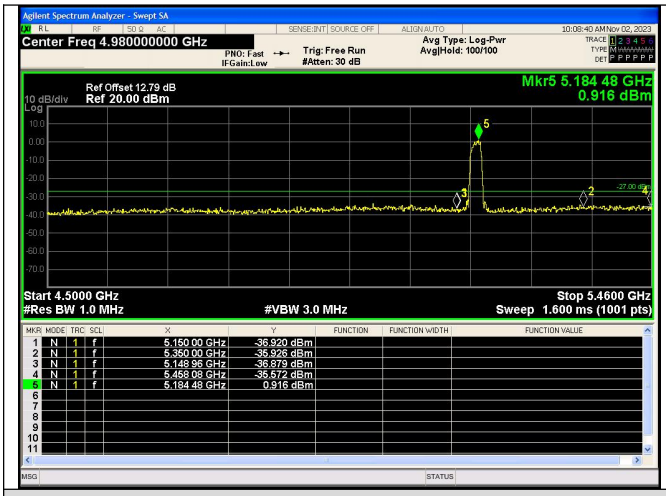
**Test Result**

| Mode | Channel | Ant. | OOB Emission Frequency (MHz) | OOB Emission Level (dBm) | Limit (dBm) | Over Limit (dB) | Result |
|---|---|---|---|---|---|---|---|
| IEEE 802.11a | 36 | 0 | 5148.96 | -36.880 | -27 | -9.880 | PASS |
| | | | 5149.74 | -37.272 | -27 | -10.270 | PASS |
| | | | 5150.00 | -36.920 | -27 | -9.920 | PASS |
| | | | 5350.00 | -35.926 | -27 | -8.926 | PASS |
| | | | 5458.08 | -35.572 | -27 | -8.572 | PASS |
| | | | 24902.2 | -39.391 | -27 | -12.390 | PASS |
| | 40 | | 908.10 | -39.018 | -27 | -12.020 | PASS |
| | | | 5148.96 | -37.568 | -27 | -10.568 | PASS |
| | | | 5150.00 | -38.137 | -27 | -11.137 | PASS |
| | | | 5350.00 | -37.480 | -27 | -10.480 | PASS |
| | | | 5459.04 | -36.448 | -27 | -9.448 | PASS |
| | | | 24918.0 | -39.712 | -27 | -12.710 | PASS |
| | 48 | | 5149.74 | -47.797 | -27 | -20.800 | PASS |
| | | | 5149.92 | -37.160 | -27 | -10.160 | PASS |
| | | | 5150.00 | -37.160 | -27 | -10.160 | PASS |
| | | | 5350.00 | -36.360 | -27 | -9.360 | PASS |
| | | | 5459.04 | -35.291 | -27 | -8.291 | PASS |
| | | | 24855.1 | -39.953 | -27 | -12.950 | PASS |
| IEEE 802.11n_20 | 36 | | 5149.62 | -38.329 | -27 | -11.330 | PASS |
| | | | 5149.92 | -37.312 | -27 | -10.312 | PASS |
| | | | 5150.00 | -37.312 | -27 | -10312 | PASS |
| | | | 5350.00 | -36.861 | -27 | -9.861 | PASS |
| | | | 5459.04 | -35.787 | -27 | -8.787 | PASS |
| | | | 24948.4 | -38.339 | -27 | -11.340 | PASS |
| | 40 | | 5122.10 | -46.941 | -27 | -19.940 | PASS |
| | | | 5146.08 | -36.486 | -27 | -9.486 | PASS |
| | | | 5150.00 | -36.792 | -27 | -9.792 | PASS |
| | | | 5350.00 | -36.629 | -27 | -9.629 | PASS |
| | | | 5460.00 | -36.433 | -27 | -9.433 | PASS |
| | | | 24927.8 | -39.153 | -27 | -12.150 | PASS |
| | 48 | | 5147.04 | -37.450 | -27 | -10.450 | PASS |
| | | | 5147.57 | -48.044 | -27 | -21.040 | PASS |
| | | | 5150.00 | -37.623 | -27 | -10.623 | PASS |
| | | | 5350.00 | -36.793 | -27 | -9.793 | PASS |
| | | | 5458.08 | -36.011 | -27 | -9.011 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | 24964.1 | -39.474 | -27 | -12.470 | PASS |
| IEEE 802.11n_40 | 38 | | 5061.42 | -47.769 | -27 | -20.770 | PASS |
| | | | 5149.92 | -37.025 | -27 | -10.025 | PASS |
| | | | 5150.00 | -37.025 | -27 | -10.025 | PASS |
| | | | 5350.00 | -35.875 | -27 | -8.875 | PASS |
| | | | 5451.36 | -34.572 | -27 | -7.527 | PASS |
| | | | 24906.2 | -39.632 | -27 | -12.630 | PASS |
| | 46 | | 5147.04 | -36.245 | -27 | -9.245 | PASS |
| | | | 5147.18 | -44.628 | -27 | -17.630 | PASS |
| | | | 5150.00 | -37.502 | -27 | -10.502 | PASS |
| | | | 5350.00 | -36.032 | -27 | -9.032 | PASS |
| | | | 5455.20 | -36.008 | -27 | -9.008 | PASS |
| | | | 24489.1 | -40.072 | -27 | -13.070 | PASS |
| IEEE 802.11ac_20 | 36 | | 5143.86 | -40.973 | -27 | -13.970 | PASS |
| | | | 5149.92 | -37.024 | -27 | -10.024 | PASS |
| | | | 5150.00 | -37.024 | -27 | -10.024 | PASS |
| | | | 5350.00 | -35.878 | -27 | -8.878 | PASS |
| | | | 5455.20 | -35.779 | -27 | -8.779 | PASS |
| | | | 24889.0 | -39.540 | -27 | -12.540 | PASS |
| | 40 | | 5052.08 | -46.904 | -27 | -19.900 | PASS |
| | | | 5148.00 | -35.639 | -27 | -8.639 | PASS |
| | | | 5150.00 | -36.679 | -27 | -9.679 | PASS |
| | | | 5350.00 | -36.506 | -27 | -9.506 | PASS |
| | | | 5460.00 | -35.762 | -27 | -8.762 | PASS |
| | | | 24897.3 | -39.035 | -27 | -12.030 | PASS |
| | 48 | | 5132.72 | -48.292 | -27 | -21.290 | PASS |
| | | | 5149.92 | -38.021 | -27 | -11.021 | PASS |
| | | | 5150.00 | -38.021 | -27 | -11.021 | PASS |
| | | | 5350.00 | -35.980 | -27 | -8.980 | PASS |
| | | | 5445.60 | -35.908 | -27 | -8.908 | PASS |
| | | | 24897.3 | -39.679 | -27 | -12.680 | PASS |
| IEEE 802.11ac_40 | 38 | | 5148.98 | -47.489 | -27 | -20.490 | PASS |
| | | | 5149.92 | -37.232 | -27 | -10.232 | PASS |
| | | | 5150.00 | -37.232 | -27 | -10.232 | PASS |
| | | | 5350.00 | -37.314 | -27 | -10.314 | PASS |
| | | | 5460.00 | -36.778 | -27 | -9.778 | PASS |
| | | | 24935.6 | -39.741 | -27 | -12.740 | PASS |
| | 46 | | 5145.90 | -46.678 | -27 | -19.680 | PASS |
| | | | 5148.96 | -37.698 | -27 | -10.698 | PASS |
| | | | 5150.00 | -37.914 | -27 | -10.914 | PASS |
| | | | 5350.00 | -34.269 | -27 | -7.269 | PASS |
| | | | 5411.04 | -33.626 | -27 | -6.626 | PASS |
| | | | 24943.0 | -39.666 | -27 | -12.670 | PASS |
| IEEE 802.11ac_80 | 42 | | 5145.01 | -46.719 | -27 | -19.720 | PASS |
| | | | 5148.96 | -37.361 | -27 | -10.361 | PASS |
| | | | 5150.00 | -38.343 | -27 | -11.343 | PASS |

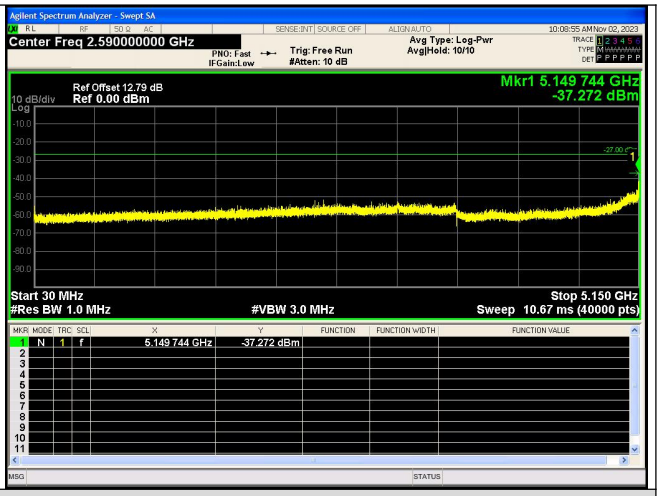
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | 5350.00 | -35.849 | -27 | -8.849 | PASS |
| | | | 5453.28 | -35.379 | -27 | -8.379 | PASS |
| | | | 24966.6 | -39.504 | -27 | -12.500 | PASS |

## Test Graphs




Out Of Band Emission

IEEE 802.11a_Channel 36_20MHz_Antenna 0

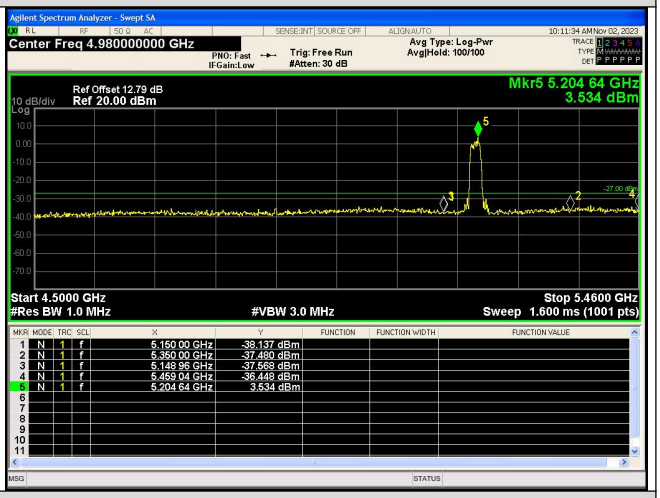



Spurious Emission:30.0~5150 MHz

IEEE 802.11a_Channel 36_20MHz_Antenna 0

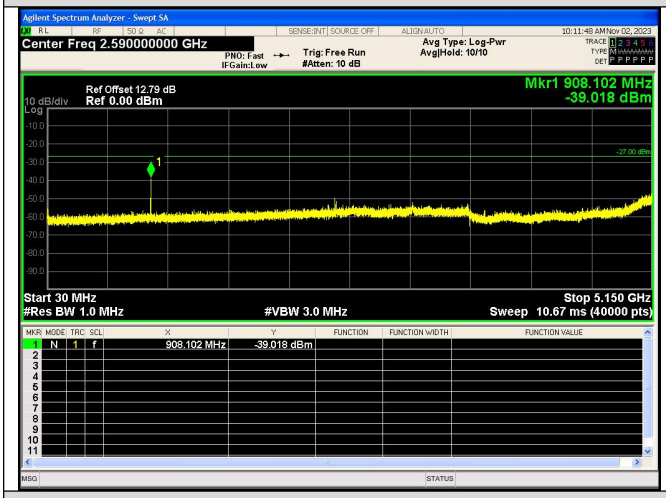
Spurious Emission:5350~25000.0 MHz

IEEE 802.11a_Channel 36_20MHz_Antenna 0




Out Of Band Emission

IEEE 802.11a_Channel 40_20MHz_Antenna 0

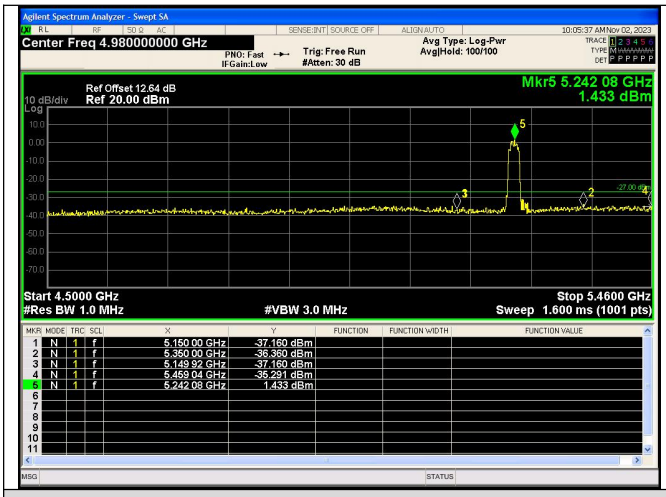



Spurious Emission:30.0~5150 MHz

IEEE 802.11a_Channel 40_20MHz_Antenna 0

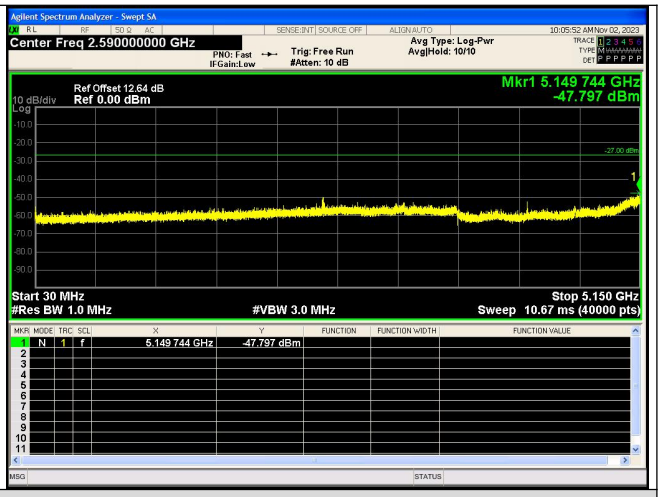
Spurious Emission:5350~25000.0 MHz

IEEE 802.11a_Channel 40_20MHz_Antenna 0



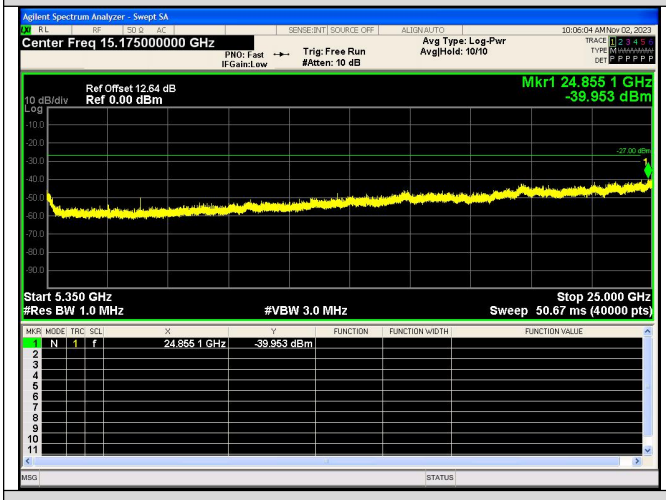

Out Of Band Emission

IEEE 802.11a_Channel 48_20MHz_Antenna 0



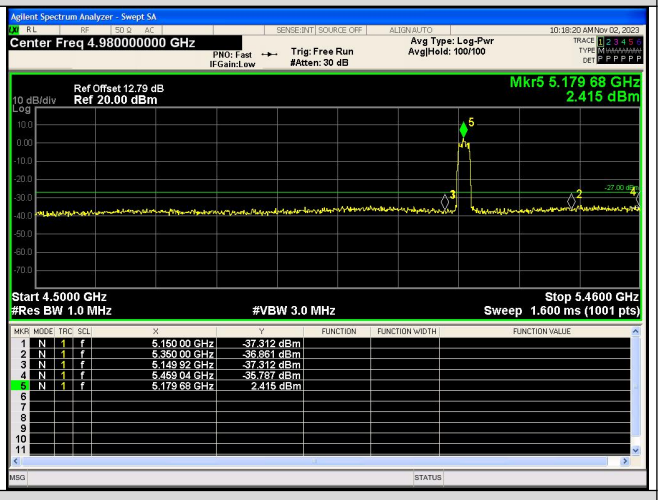

Spurious Emission:30.0~5150 MHz

IEEE 802.11a_Channel 48_20MHz_Antenna 0



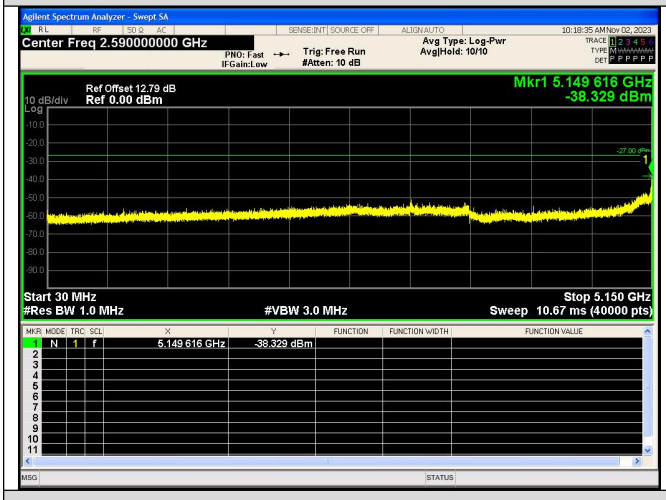

Spurious Emission:5350~25000.0 MHz

IEEE 802.11a_Channel 48_20MHz_Antenna 0



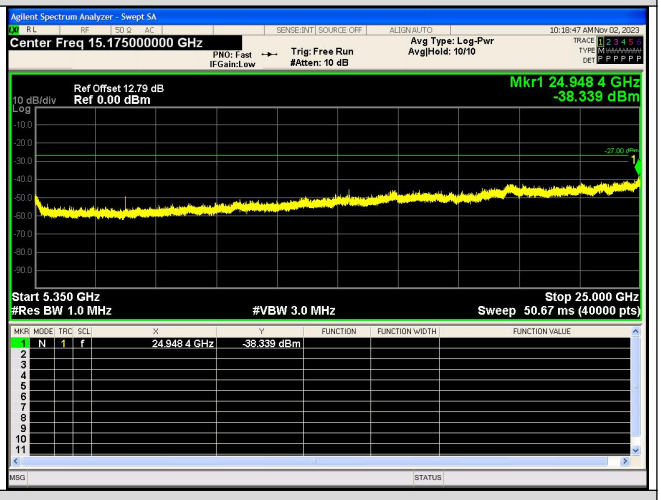

Out Of Band Emission

IEEE 802.11n_Channel 36_20MHz_Antenna 0




Spurious Emission:30.0~5150 MHz

IEEE 802.11n_Channel 36_20MHz_Antenna 0




Spurious Emission:5350~25000.0 MHz

IEEE 802.11n_Channel 36_20MHz_Antenna 0