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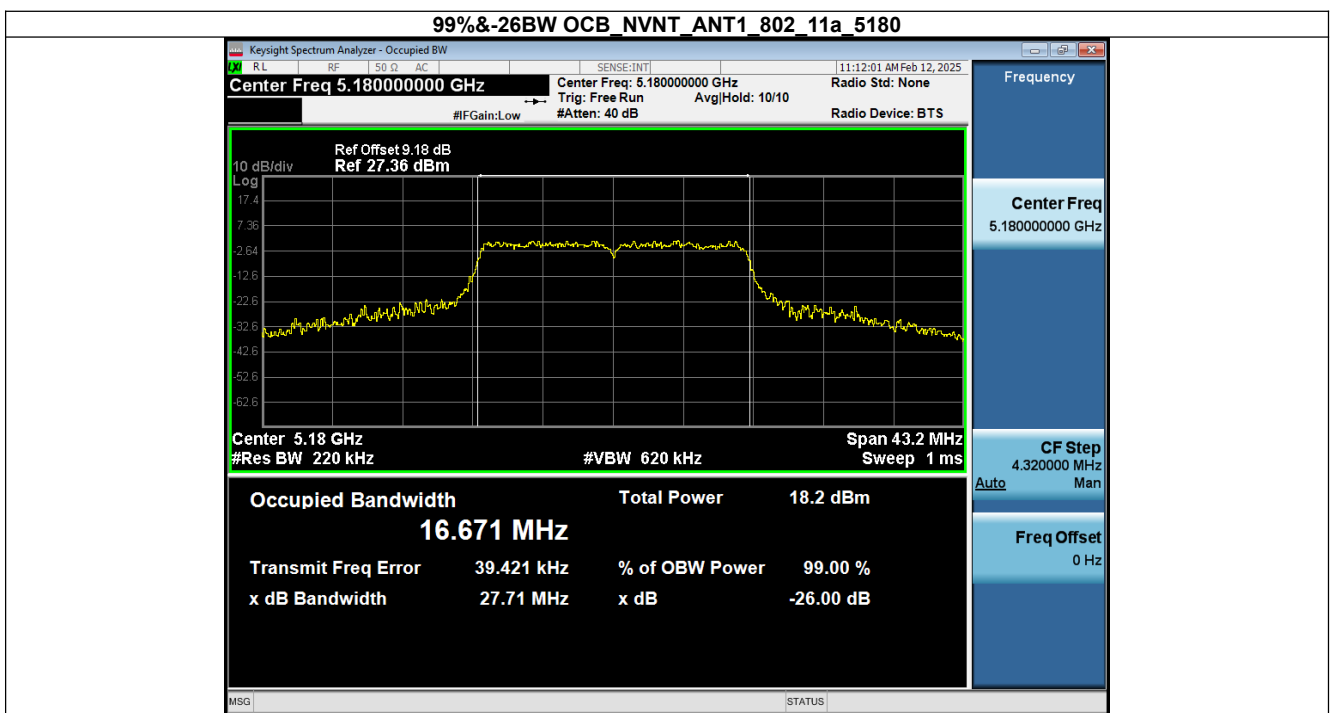
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# FCC ID:2A77D-S850

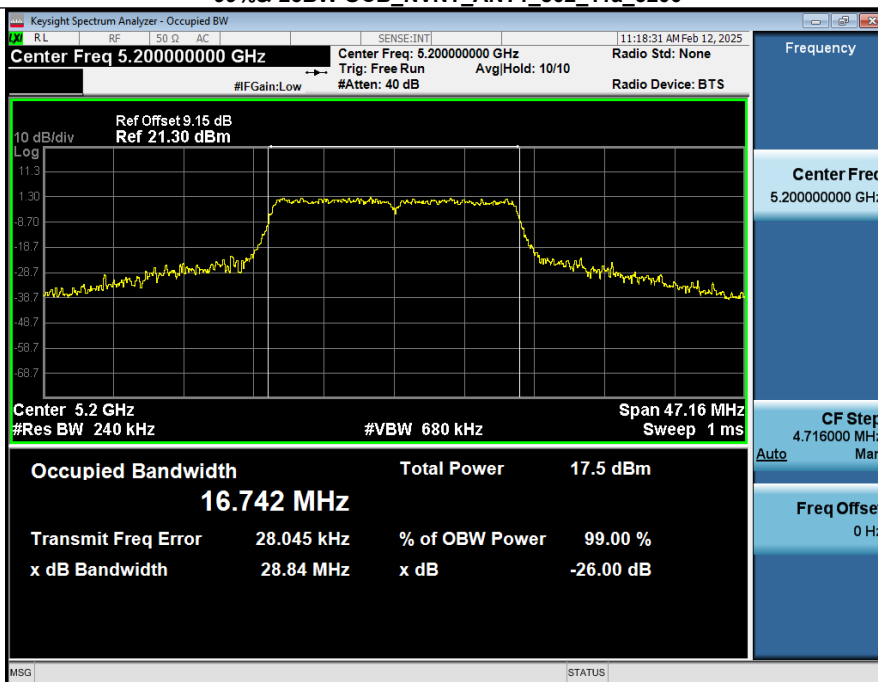
## FCC\_5.2G\_WIFI (Part15.407) Test Data

### 1. -26dB and 99% Emission Bandwidth

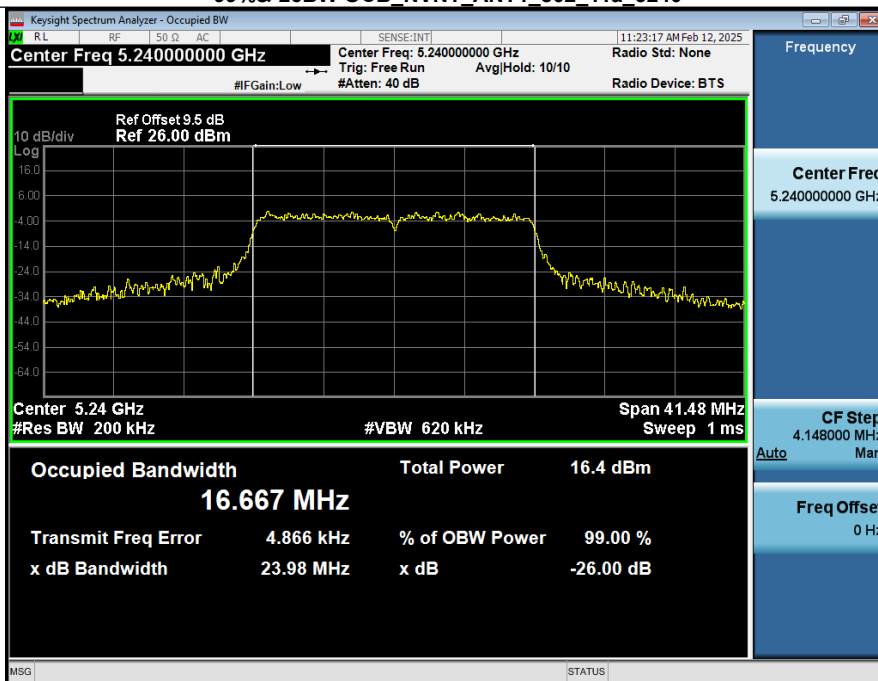
| Condition | Antenna | Modulation    | Frequency(MHz) | -26dB_Emission_Bandwidth(MHz) | Occupied Bandwidth(MHz) |
|-----------|---------|---------------|----------------|-------------------------------|-------------------------|
| NVNT      | ANT1    | 802.11a       | 5180.00        | 27.71                         | 16.671                  |
| NVNT      | ANT1    | 802.11a       | 5200.00        | 28.84                         | 16.742                  |
| NVNT      | ANT1    | 802.11a       | 5240.00        | 23.98                         | 16.667                  |
| NVNT      | ANT1    | 802.11n(HT20) | 5180.00        | 27.53                         | 17.836                  |
| NVNT      | ANT1    | 802.11n(HT20) | 5200.00        | 27.96                         | 17.799                  |
| NVNT      | ANT1    | 802.11n(HT20) | 5240.00        | 31.45                         | 17.771                  |



99%&-26BW OCB\_NVNT\_ANT1\_802\_11a\_5200



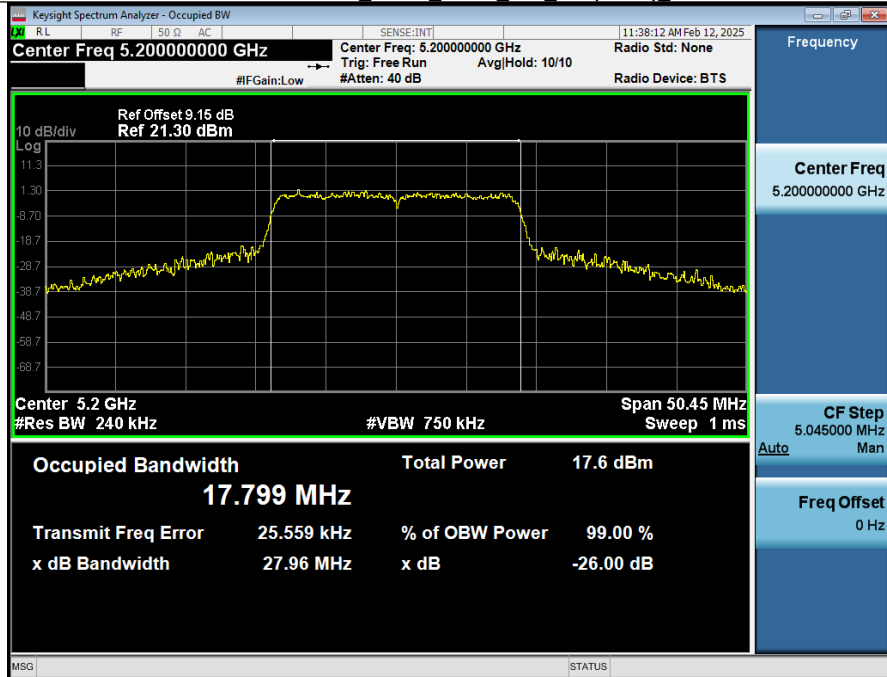
99%&-26BW OCB\_NVNT\_ANT1\_802\_11a\_5240

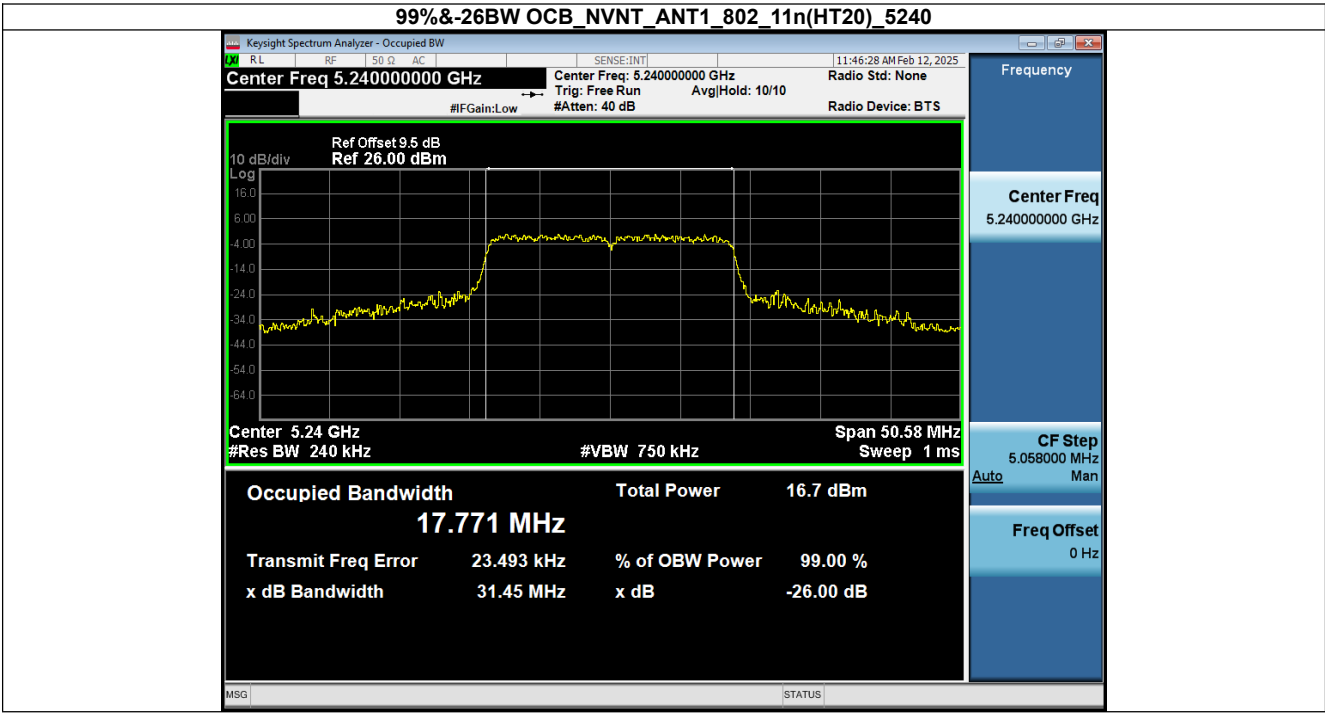


99%&-26BW OCB\_NVNT\_ANT1\_802\_11n(HT20)\_5180



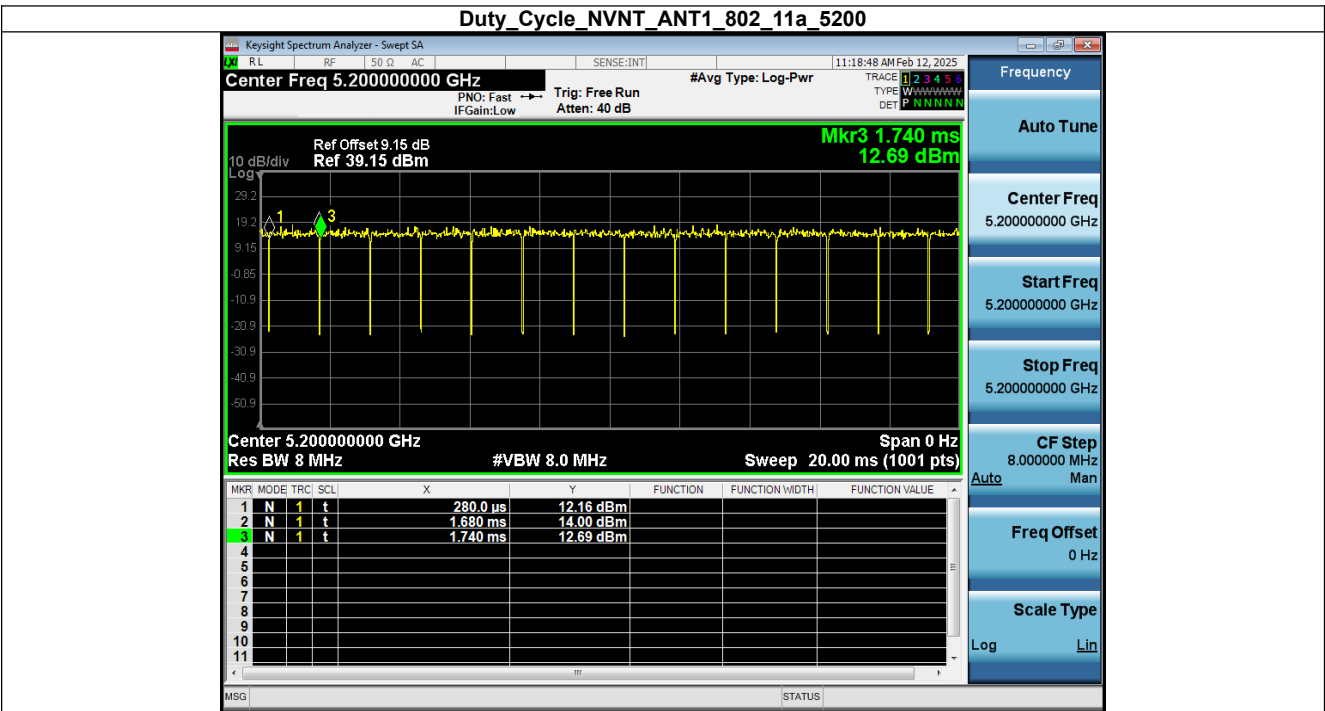
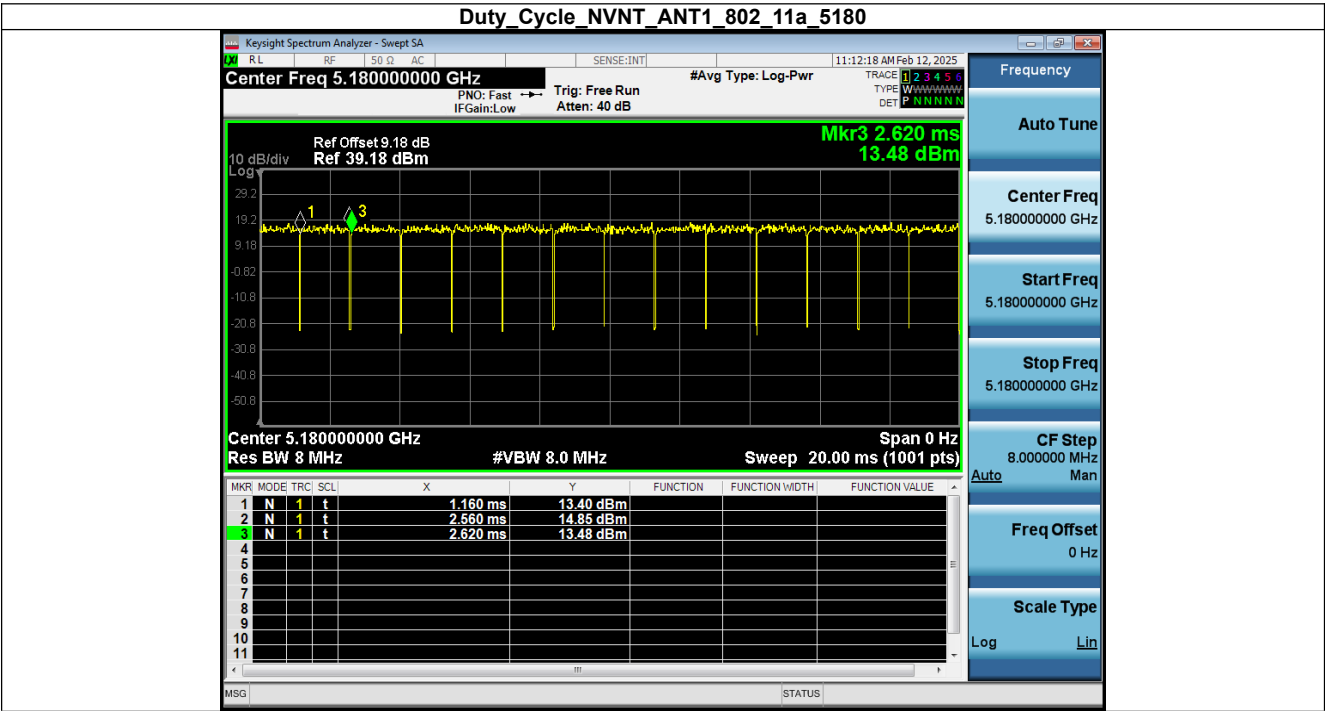
99%&-26BW OCB\_NVNT\_ANT1\_802\_11n(HT20)\_5200



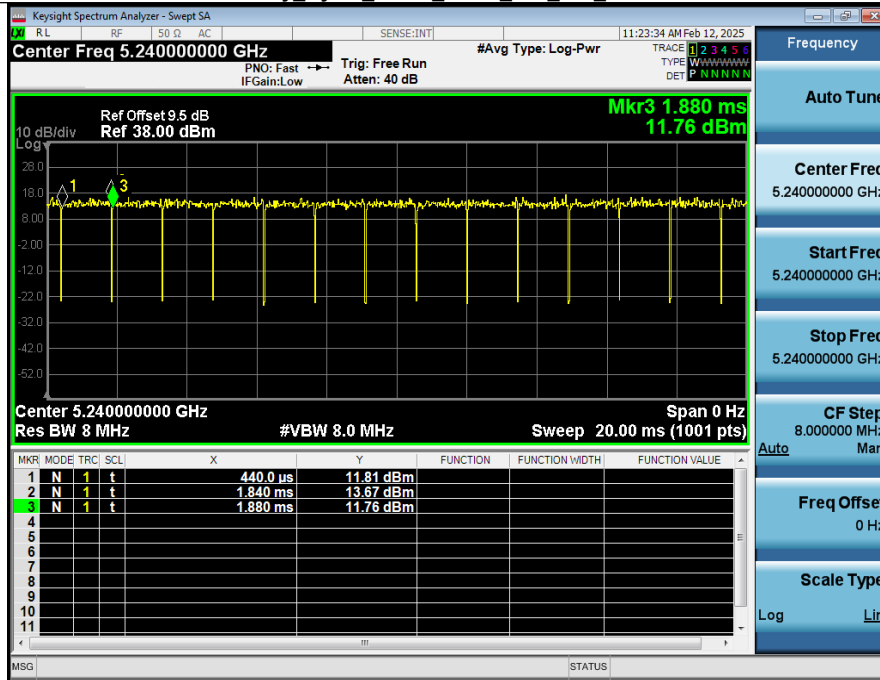


2. Duty Cycle

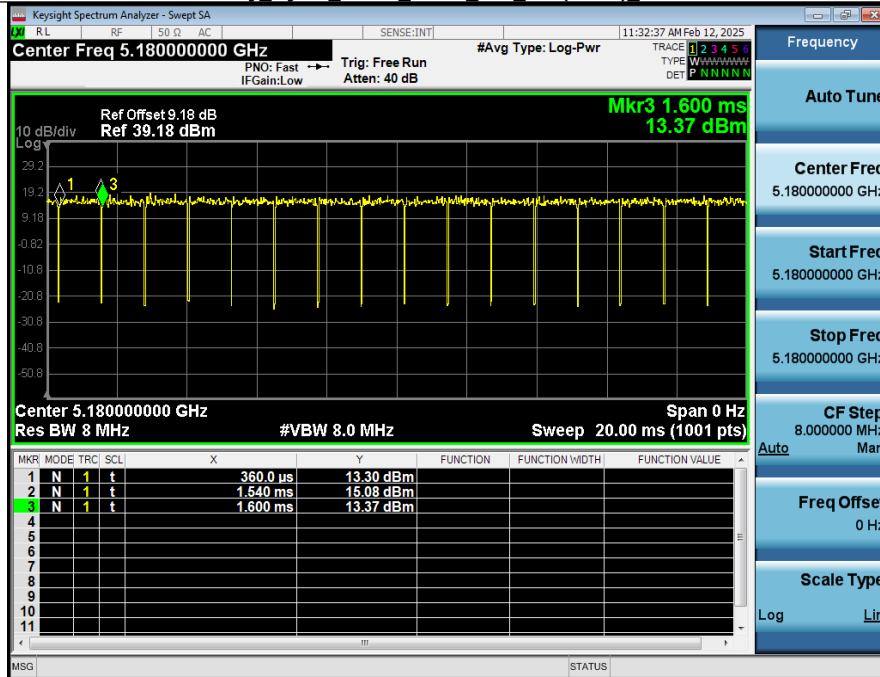
| Condition | Antenna | Modulation    | Frequency (MHz) | Duty cycle(%) | Duty_factor |
|-----------|---------|---------------|-----------------|---------------|-------------|
| NVNT      | ANT1    | 802.11a       | 5180.00         | 95.89         | 0.18        |
| NVNT      | ANT1    | 802.11a       | 5200.00         | 95.89         | 0.18        |
| NVNT      | ANT1    | 802.11a       | 5240.00         | 97.22         | 0.12        |
| NVNT      | ANT1    | 802.11n(HT20) | 5180.00         | 95.16         | 0.22        |
| NVNT      | ANT1    | 802.11n(HT20) | 5200.00         | 96.72         | 0.14        |
| NVNT      | ANT1    | 802.11n(HT20) | 5240.00         | 95.16         | 0.22        |



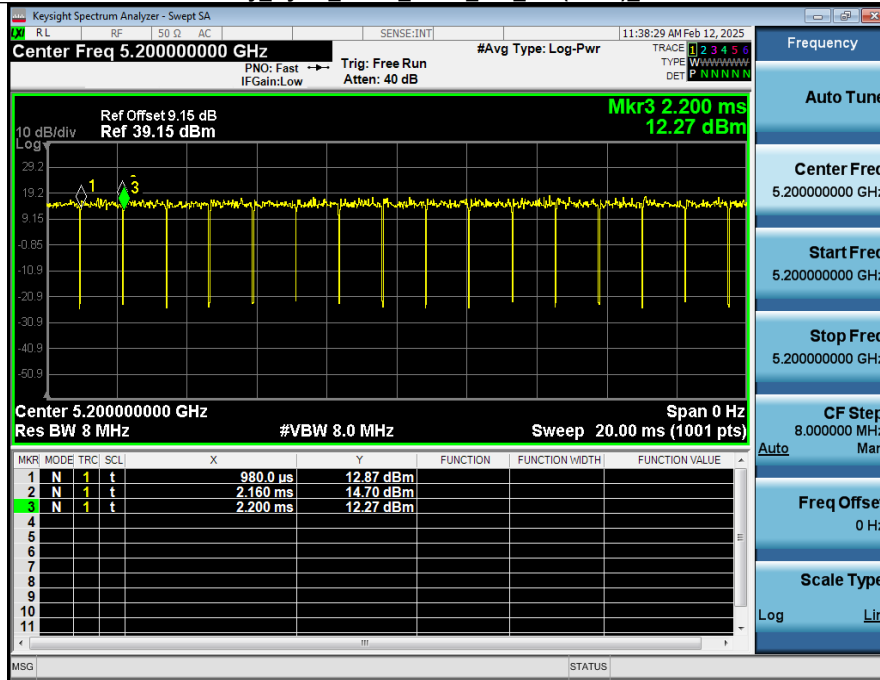
# Duty Cycle NVNT\_ANT1\_802\_11a\_5240



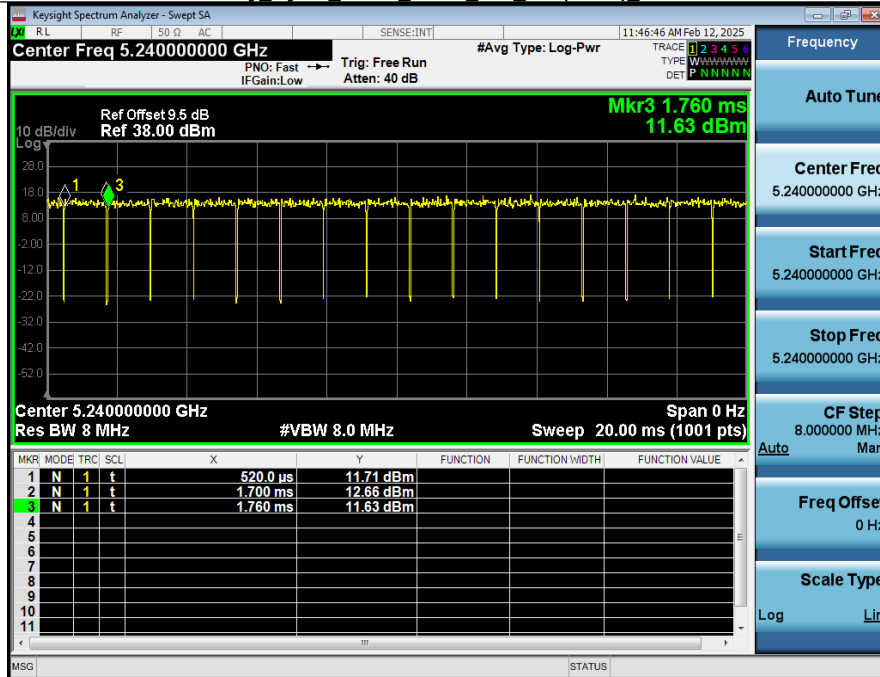
# Duty Cycle NVNT\_ANT1\_802\_11n(HT20)\_5180



# Duty Cycle NVNT\_ANT1\_802\_11n(HT20)\_5200

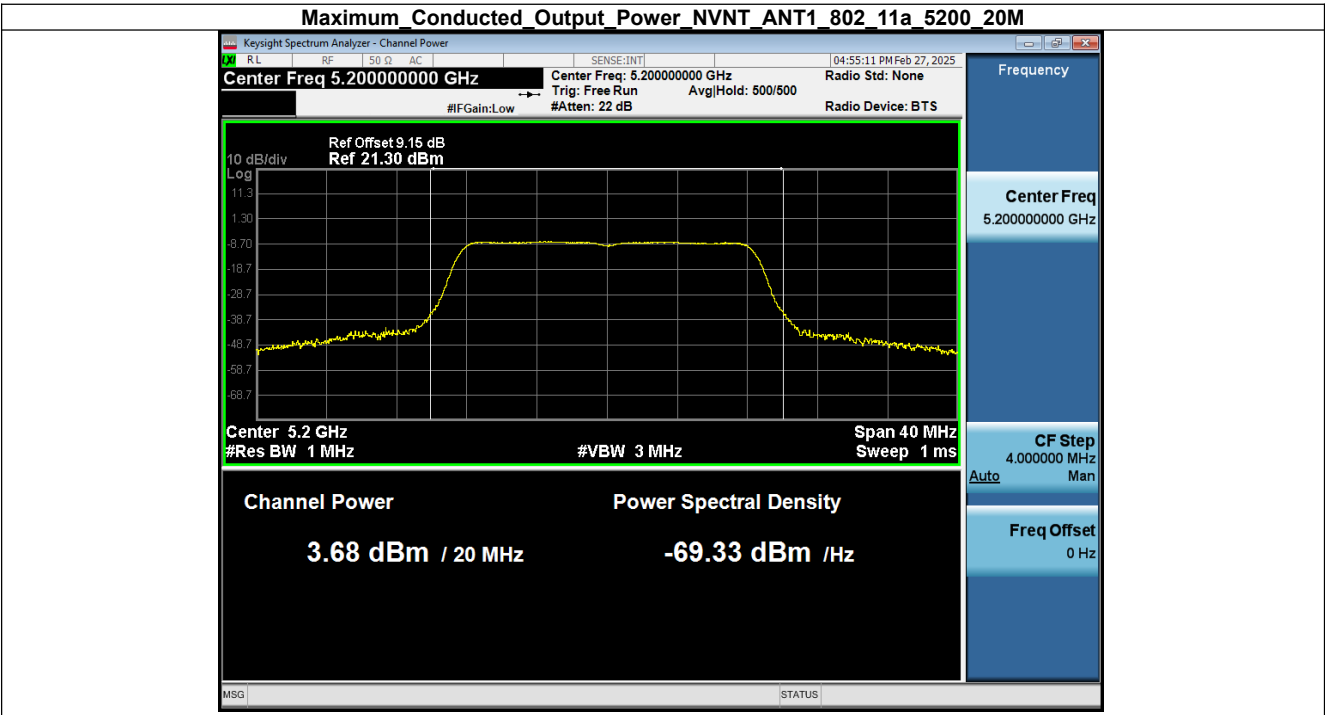
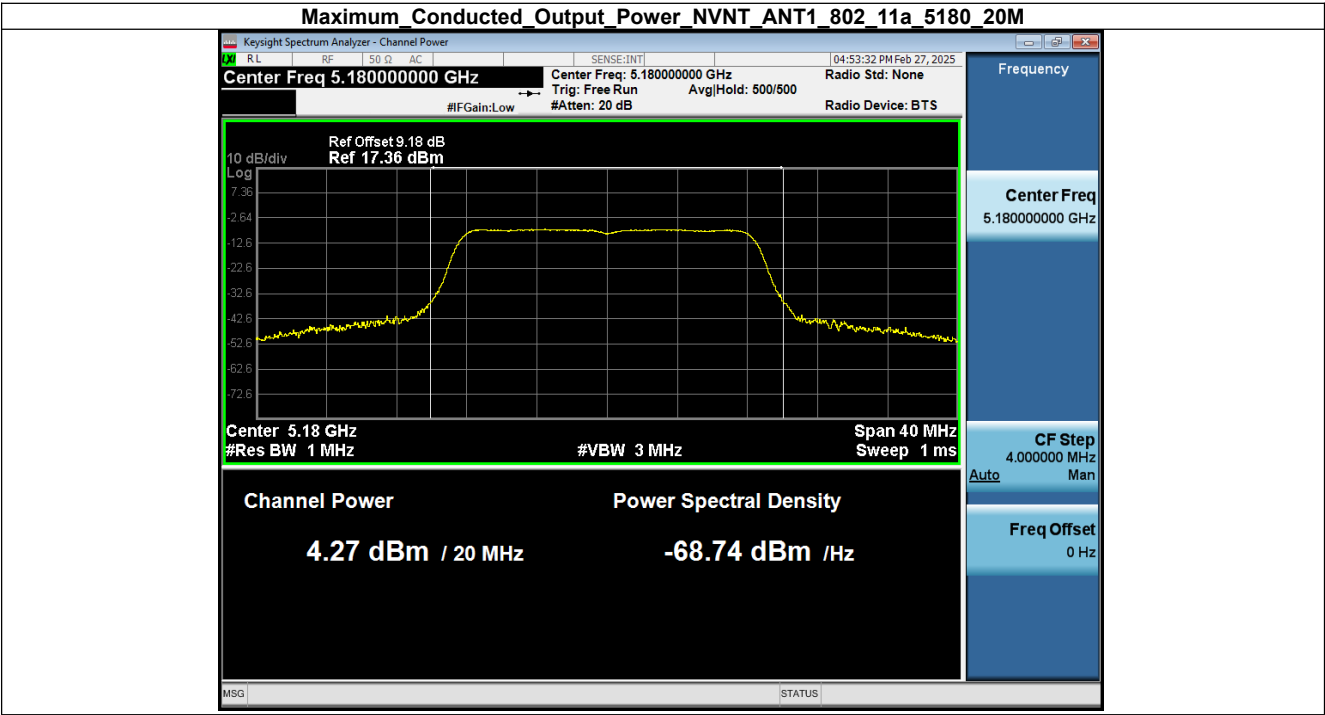


# Duty Cycle NVNT\_ANT1\_802\_11n(HT20)\_5240

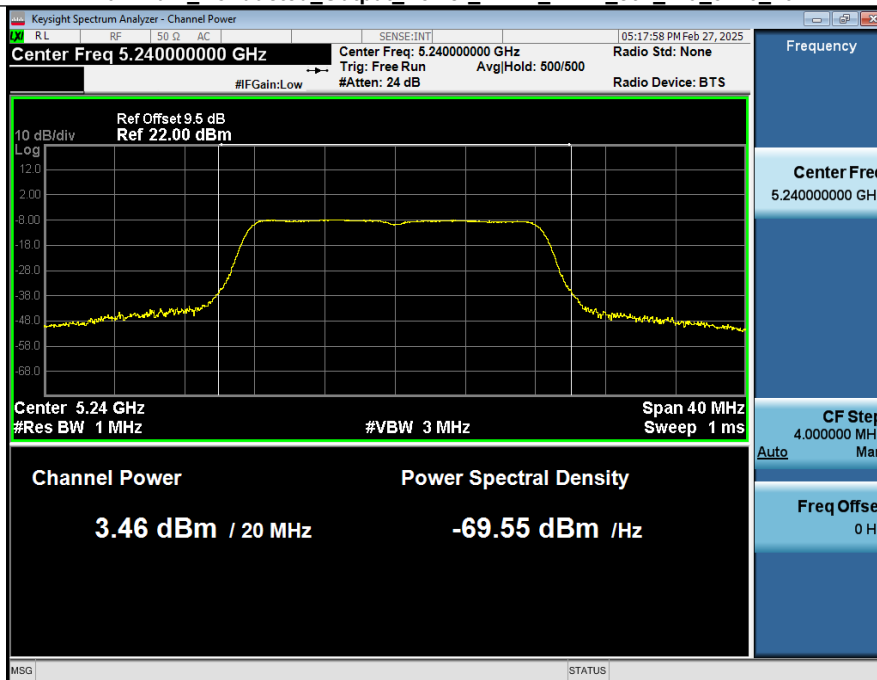


3. Maximum Conducted Output Power

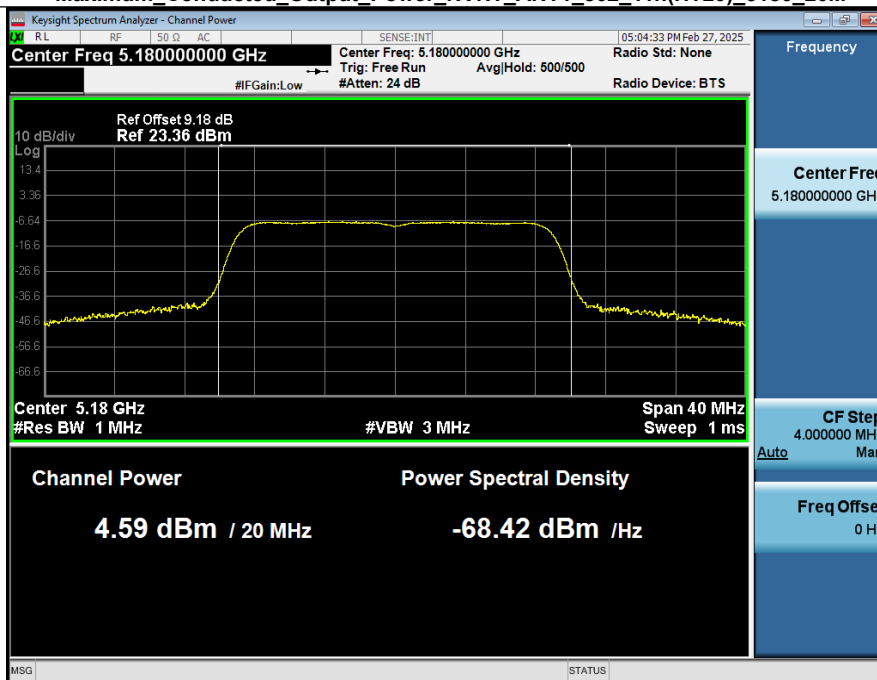
| Condition | Antenna | Modulation    | Frequency (MHz) | Conducted Power(dBm) | Duty factor(dB) | Total Power(dBm) | limit(dBm) | Result |
|-----------|---------|---------------|-----------------|----------------------|-----------------|------------------|------------|--------|
| NVNT      | ANT1    | 802.11a       | 5180.00         | 4.27                 | 0.18            | 4.45             | 24         | Pass   |
| NVNT      | ANT1    | 802.11a       | 5200.00         | 3.68                 | 0.18            | 3.86             | 24         | Pass   |
| NVNT      | ANT1    | 802.11a       | 5240.00         | 3.46                 | 0.18            | 3.64             | 24         | Pass   |
| NVNT      | ANT1    | 802.11n(HT20) | 5180.00         | 4.59                 | 0.22            | 4.81             | 24         | Pass   |
| NVNT      | ANT1    | 802.11n(HT20) | 5200.00         | 4.13                 | 0.14            | 4.27             | 24         | Pass   |
| NVNT      | ANT1    | 802.11n(HT20) | 5240.00         | 3.38                 | 0.22            | 3.60             | 24         | Pass   |



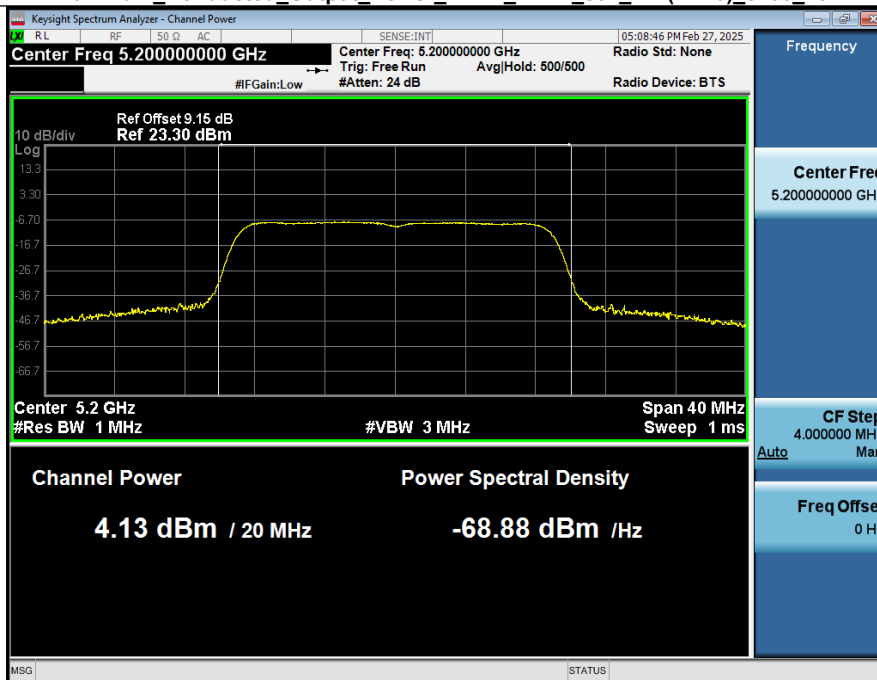
# Maximum Conducted Output Power\_NVNT\_ANT1\_802\_11a\_5240\_20M



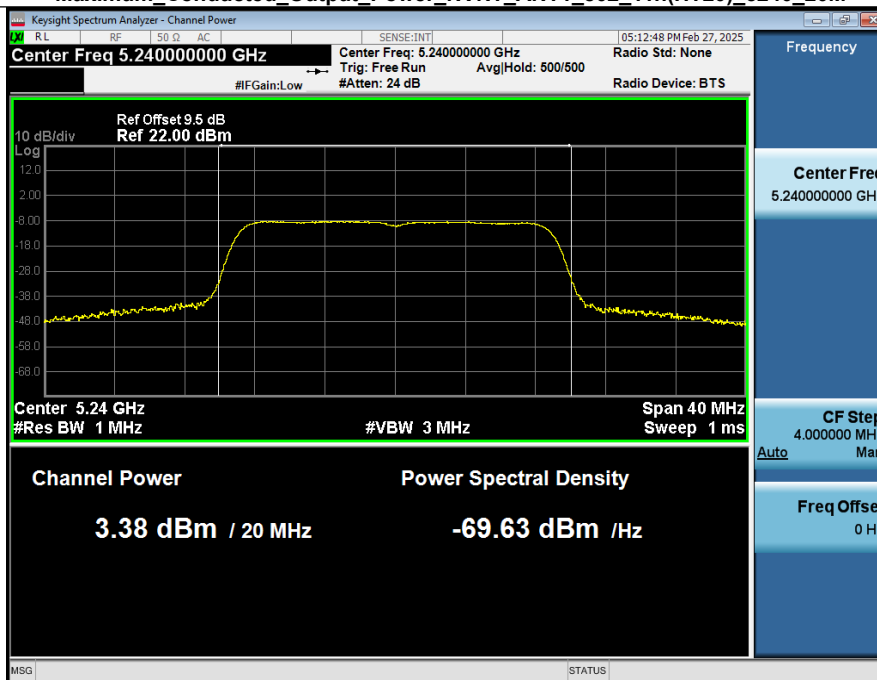
# Maximum Conducted Output Power\_NVNT\_ANT1\_802\_11n(HT20)\_5180\_20M



# Maximum\_Conducted\_Output\_Power\_NVNT\_ANT1\_802\_11n(HT20)\_5200\_20M

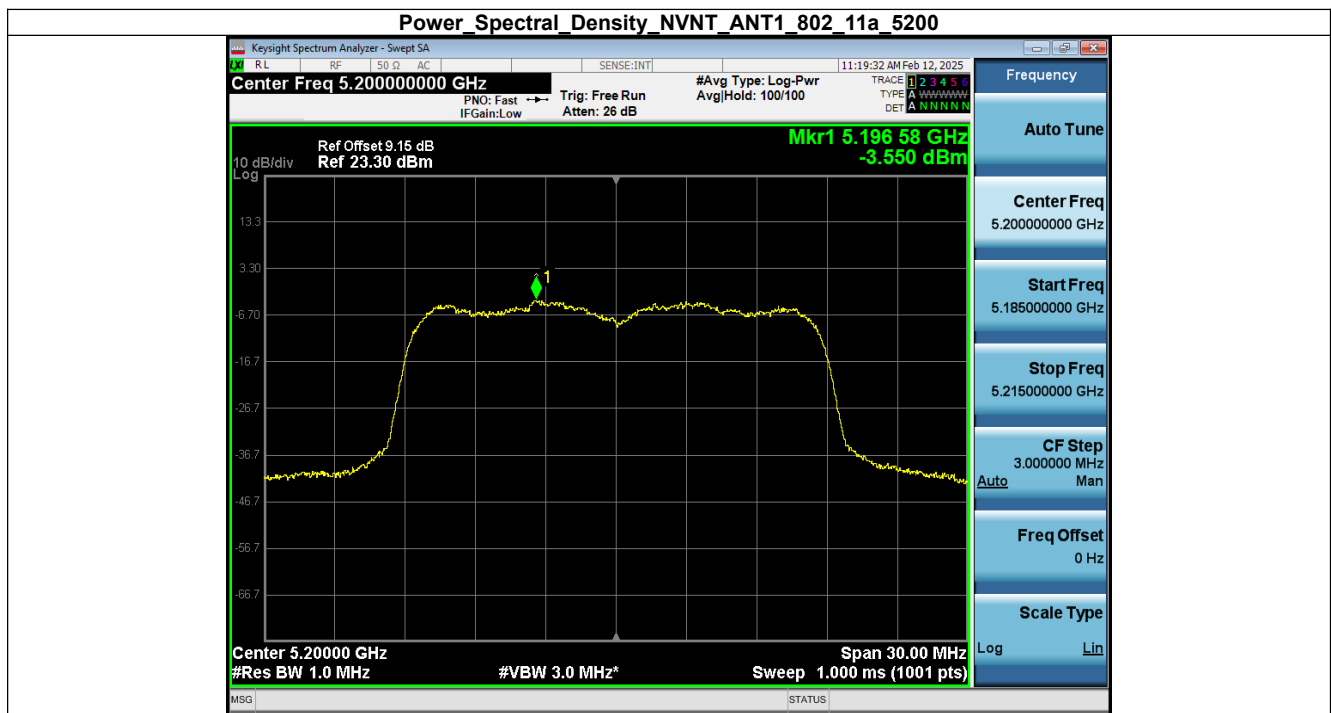
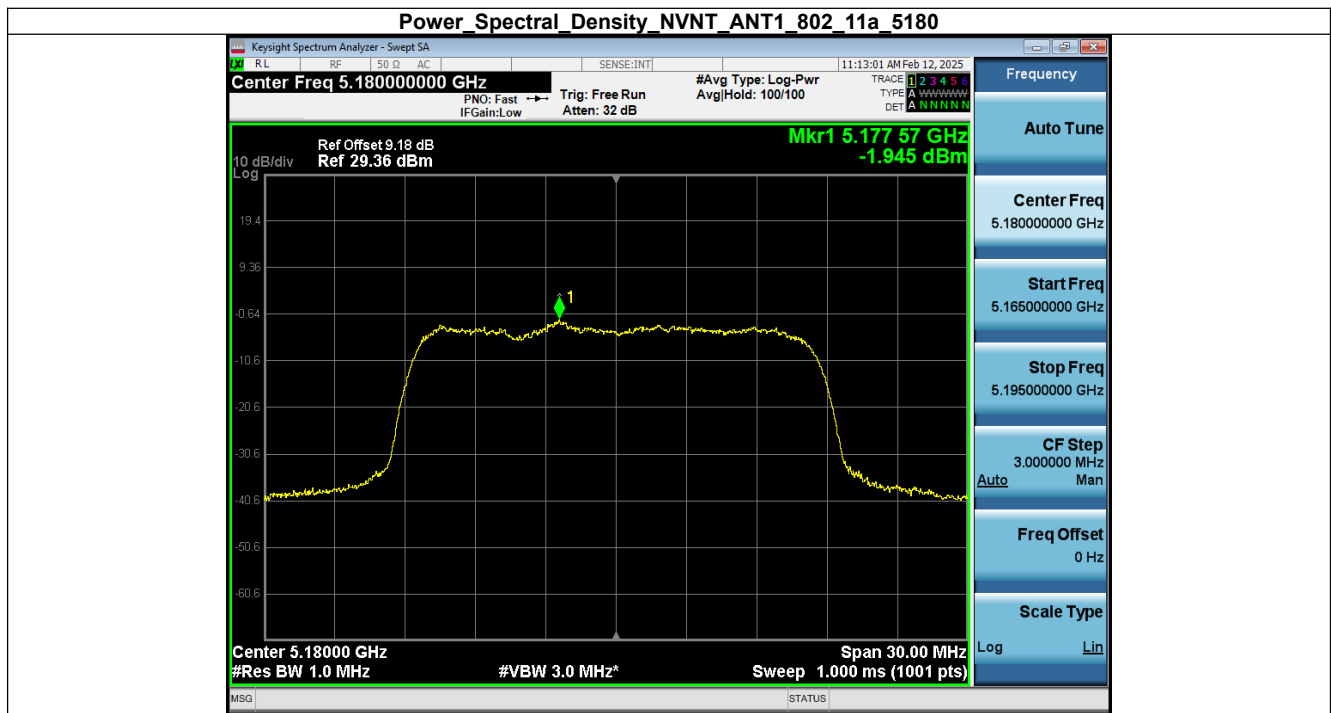


# Maximum\_Conducted\_Output\_Power\_NVNT\_ANT1\_802\_11n(HT20)\_5240\_20M

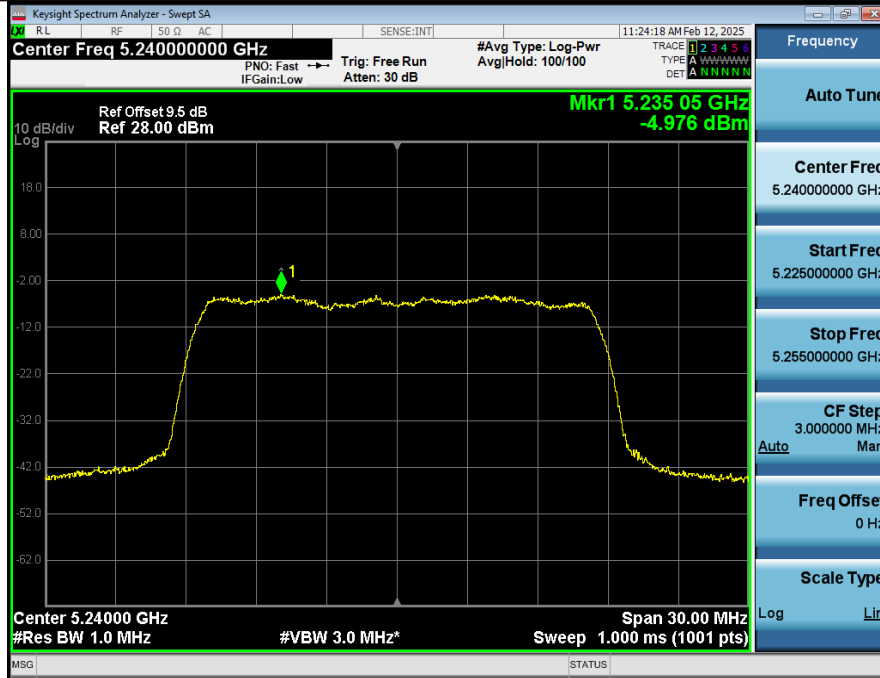


## 4. Power Spectral Density

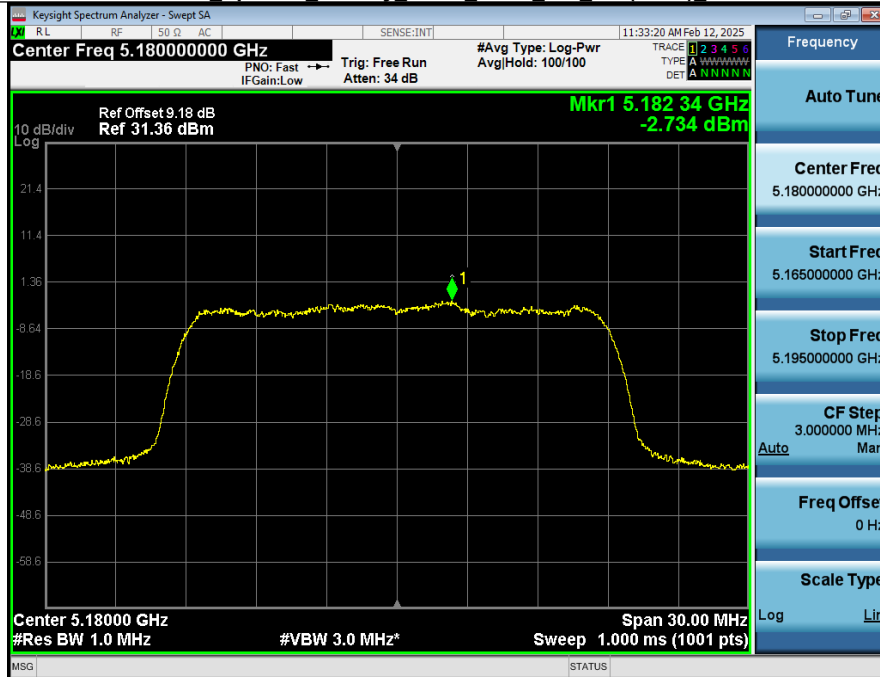
| Condition | Antenna | Modulation    | Frequency (MHz) | PSD(dBm/MHz) | Duty factor(dB) | Total PSD(dBm/MHz) | limit(dBm) | Result |
|-----------|---------|---------------|-----------------|--------------|-----------------|--------------------|------------|--------|
| NVNT      | ANT1    | 802.11a       | 5180.00         | -1.95        | 0.18            | -1.77              | 11         | Pass   |
| NVNT      | ANT1    | 802.11a       | 5200.00         | -3.55        | 0.18            | -3.37              | 11         | Pass   |
| NVNT      | ANT1    | 802.11a       | 5240.00         | -4.98        | 0.12            | -4.86              | 11         | Pass   |
| NVNT      | ANT1    | 802.11n(HT20) | 5180.00         | -2.73        | 0.22            | -2.51              | 11         | Pass   |
| NVNT      | ANT1    | 802.11n(HT20) | 5200.00         | -3.14        | 0.14            | -3.00              | 11         | Pass   |
| NVNT      | ANT1    | 802.11n(HT20) | 5240.00         | -4.56        | 0.22            | -4.34              | 11         | Pass   |



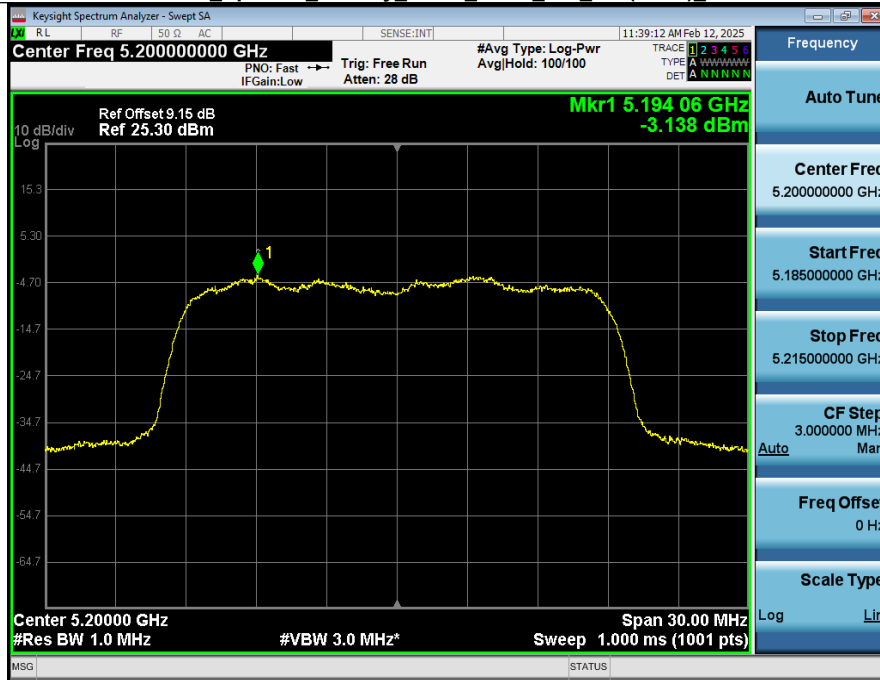
# Power Spectral Density NVNT\_ANT1\_802\_11a\_5240



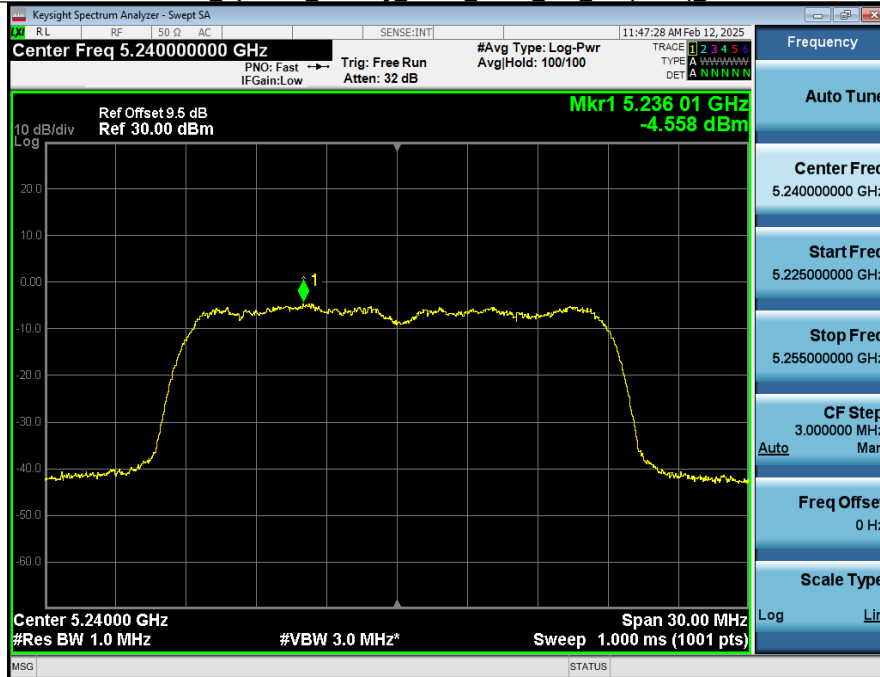
# Power Spectral Density NVNT\_ANT1\_802\_11n(HT20)\_5180



# Power Spectral Density NVNT\_ANT1\_802\_11n(HT20)\_5200



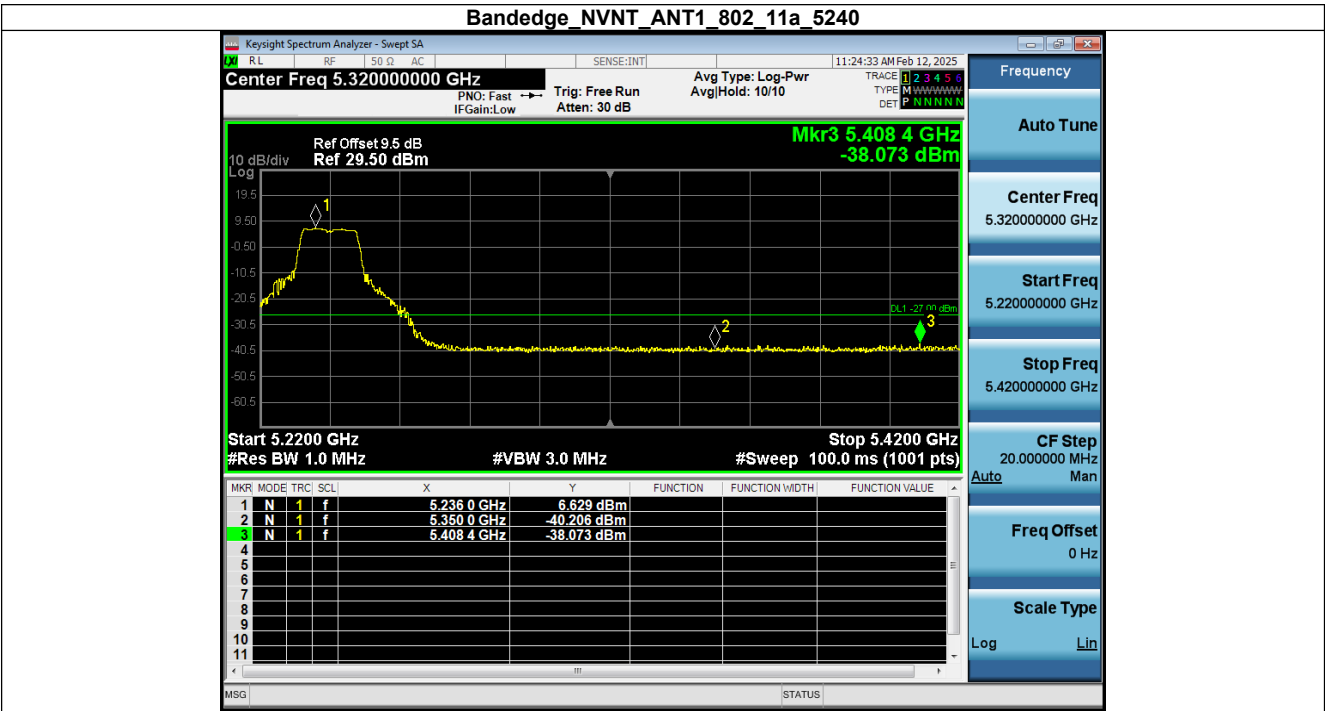
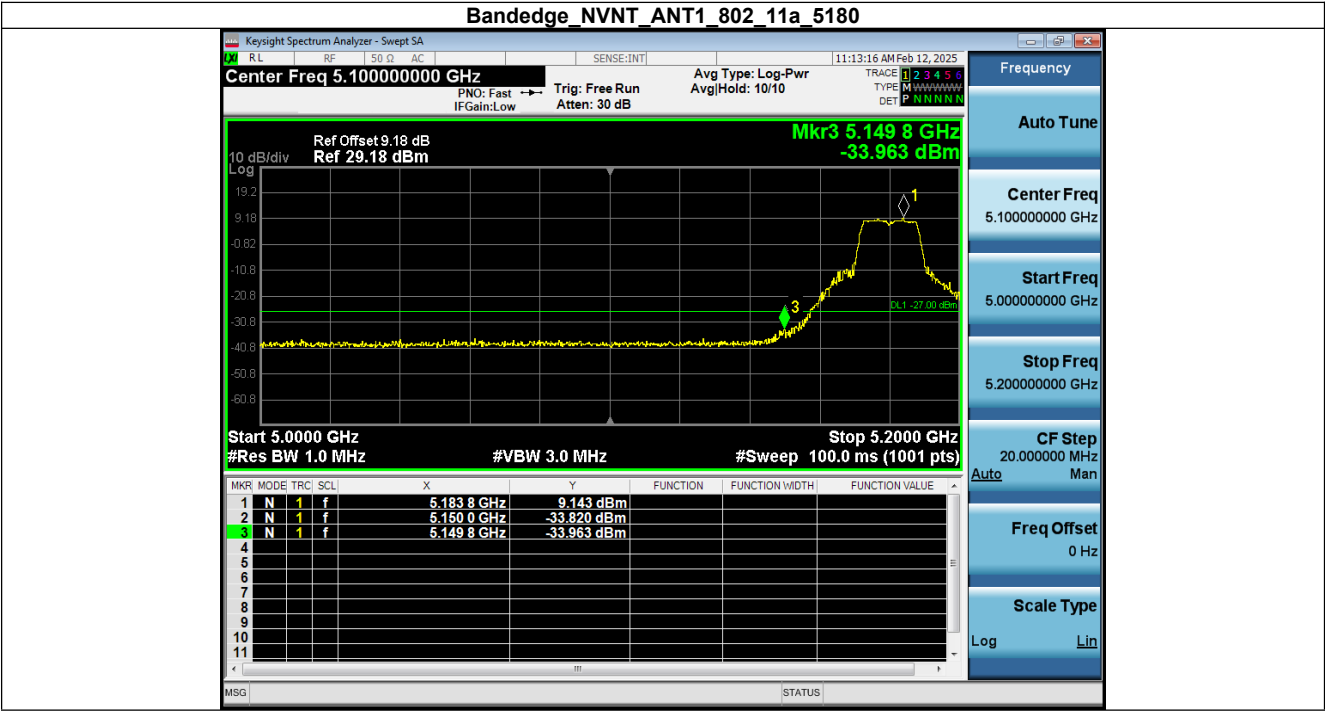
# Power Spectral Density NVNT\_ANT1\_802\_11n(HT20)\_5240



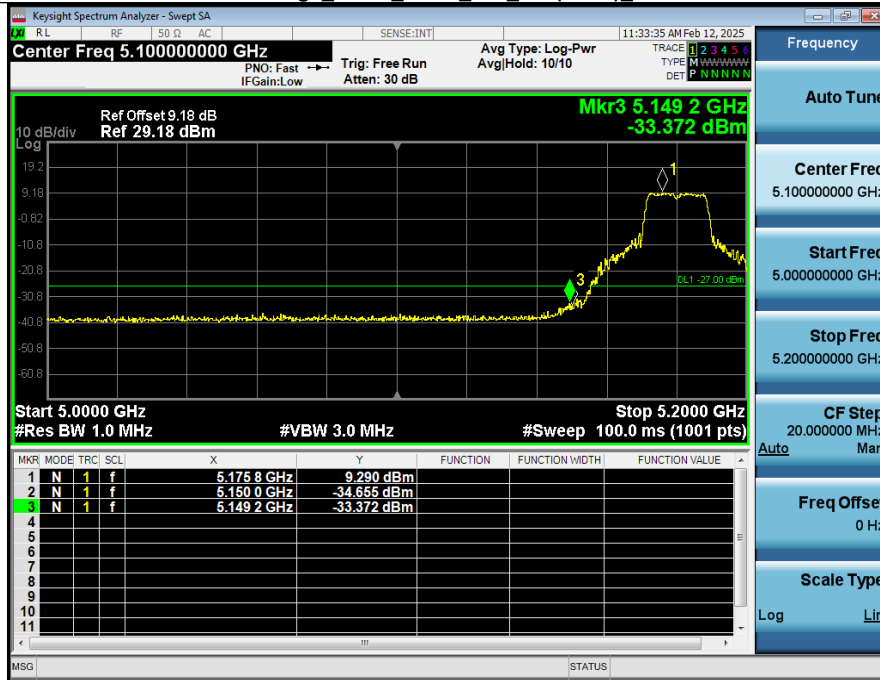
5. Bandedge

| Condition | Antenna | Modulation    | TX_Frequency (MHz) | Max. Mark Frequency(MHz) | Spurious level(dBm) | limit(dBm) | Result |
|-----------|---------|---------------|--------------------|--------------------------|---------------------|------------|--------|
| NVNT      | ANT1    | 802.11a       | 5180.00            | 5149.80                  | -33.96              | -27        | Pass   |
| NVNT      | ANT1    | 802.11a       | 5240.00            | 5408.40                  | -38.07              | -27        | Pass   |
| NVNT      | ANT1    | 802.11n(HT20) | 5180.00            | 5149.20                  | -33.37              | -27        | Pass   |
| NVNT      | ANT1    | 802.11n(HT20) | 5240.00            | 5405.20                  | -38.19              | -27        | Pass   |

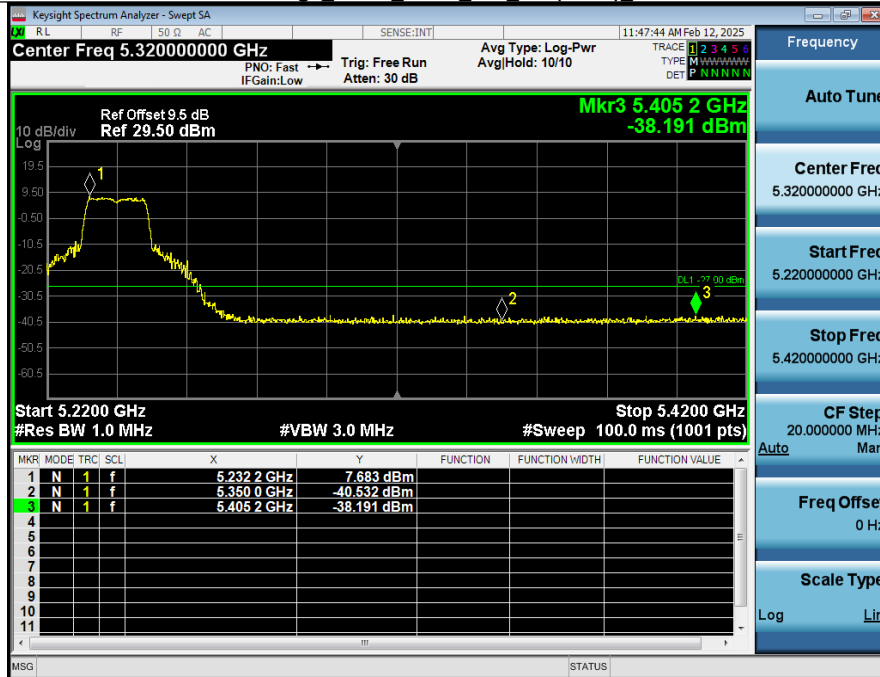
Note:The test diagram has integrated antenna gain to Offset Settings.



# Bandedge\_NVNT\_ANT1\_802\_11n(HT20)\_5180



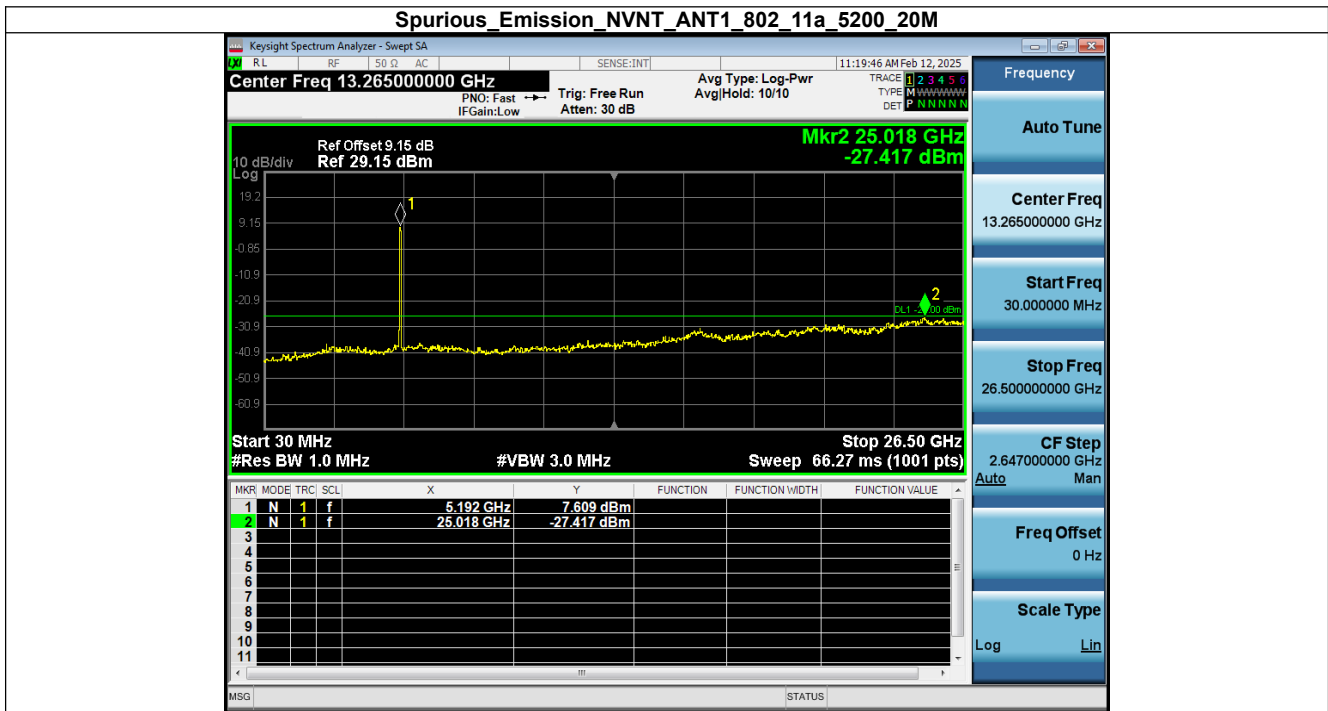
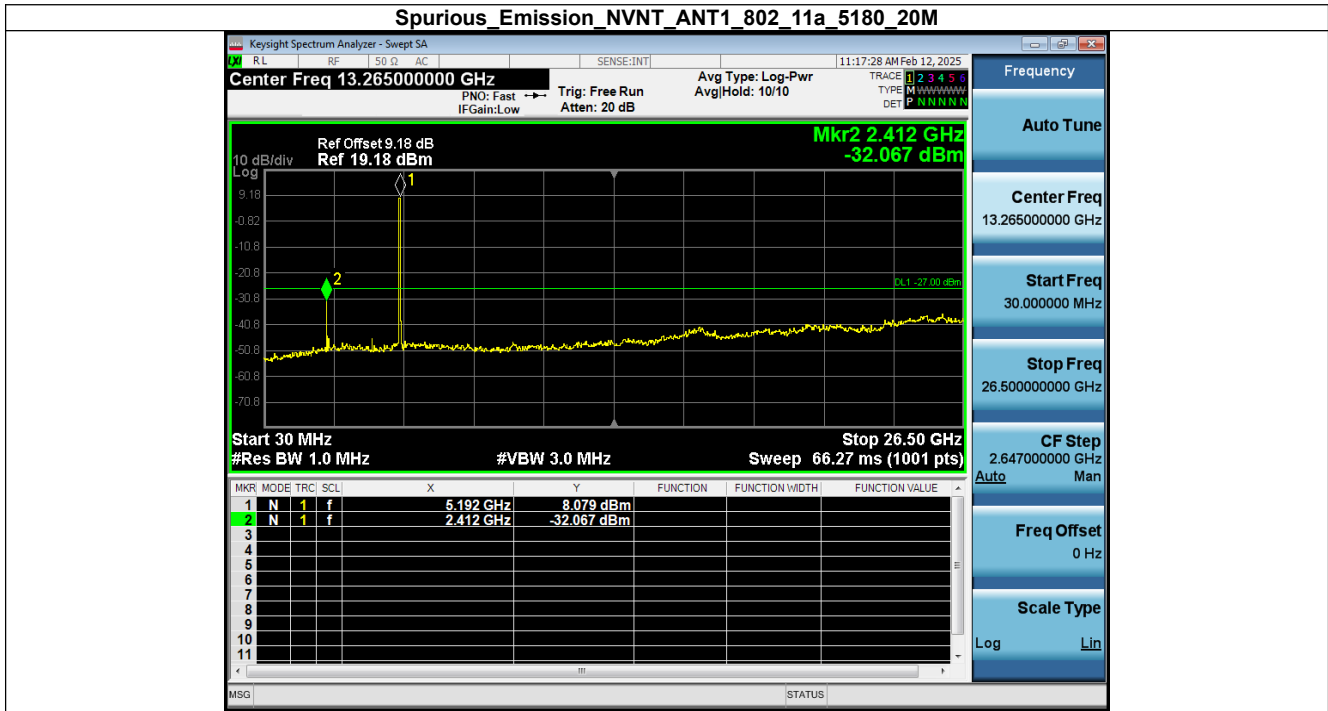
# Bandedge\_NVNT\_ANT1\_802\_11n(HT20)\_5240



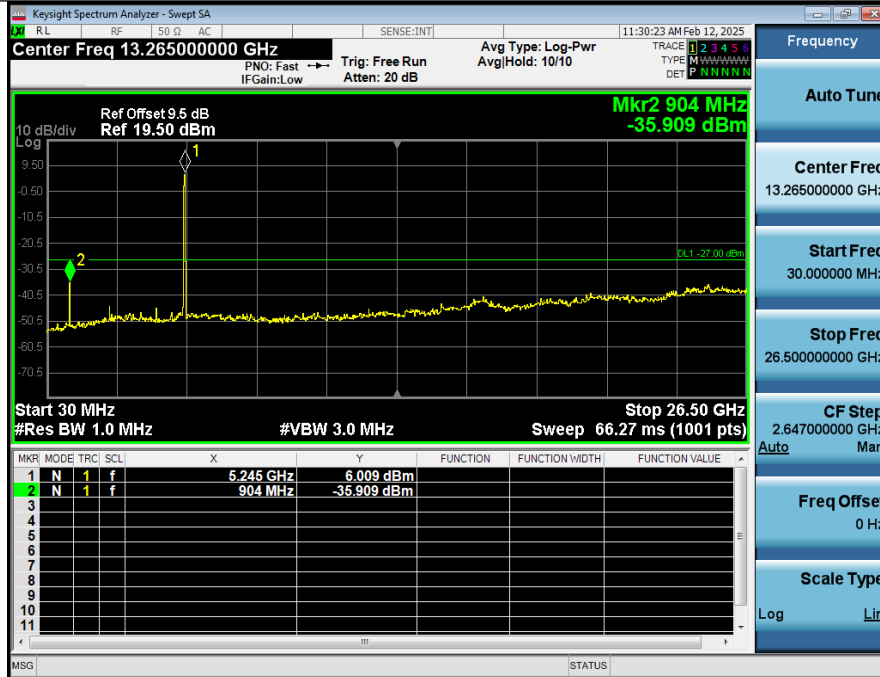
6. Spurious Emission

| Condition | Antenna | Modulation    | TX_Frequency (MHz) | Max. Mark Frequency(MHz) | Spurious level(dBm) | limit(dBm) | Result |
|-----------|---------|---------------|--------------------|--------------------------|---------------------|------------|--------|
| NVNT      | ANT1    | 802.11a       | 5180.00            | 2412.30                  | -32.07              | -27        | Pass   |
| NVNT      | ANT1    | 802.11a       | 5200.00            | 25017.68                 | -27.42              | -27        | Pass   |
| NVNT      | ANT1    | 802.11a       | 5240.00            | 903.51                   | -35.91              | -27        | Pass   |
| NVNT      | ANT1    | 802.11n(HT20) | 5180.00            | 25811.78                 | -36.60              | -27        | Pass   |
| NVNT      | ANT1    | 802.11n(HT20) | 5200.00            | 24488.28                 | -27.39              | -27        | Pass   |
| NVNT      | ANT1    | 802.11n(HT20) | 5240.00            | 24964.74                 | -36.74              | -27        | Pass   |

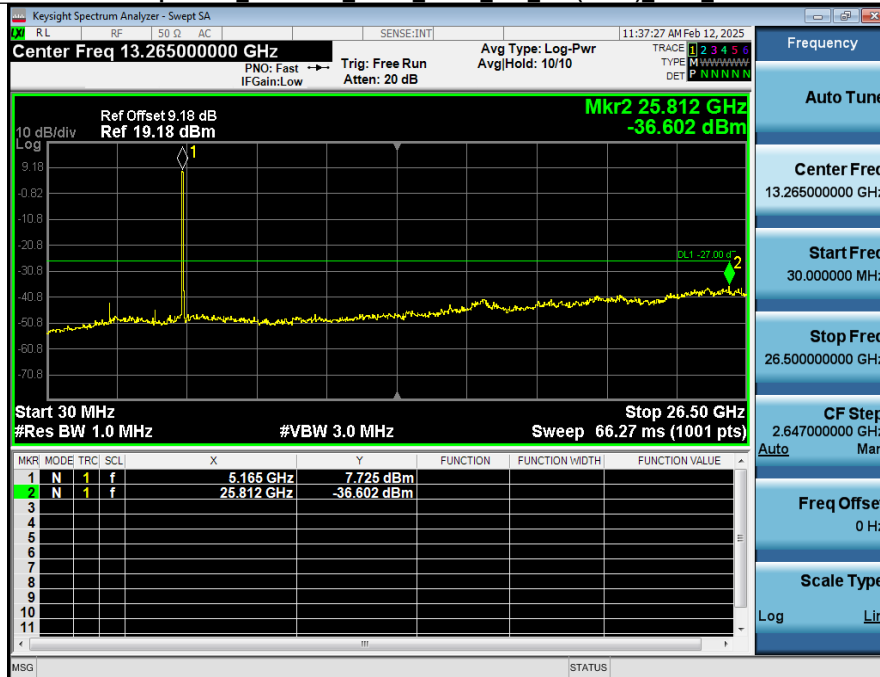
Note:1. The antenna gain is compensated in the test data.  
2. 26.5GHz-40GHz the Spurious leve margin is the largest, so the test data only reflects 30MHz-26.5GHz



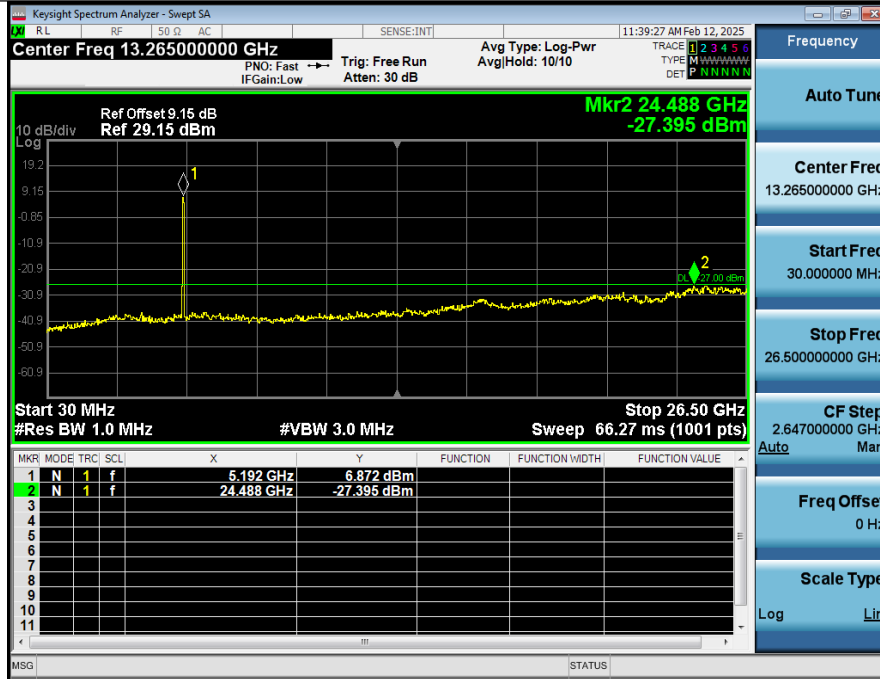
# Spurious Emission NVNT\_ANT1\_802\_11a\_5240\_20M



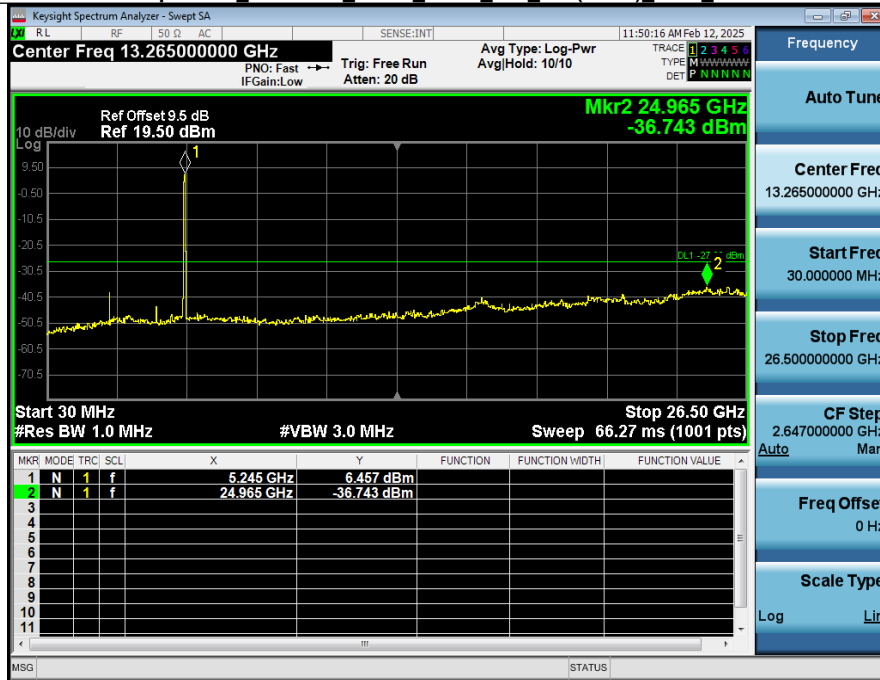
# Spurious Emission NVNT\_ANT1\_802\_11n(HT20)\_5180\_20M



# Spurious Emission\_NVNT\_ANT1\_802\_11n(HT20)\_5200\_20M



# Spurious Emission\_NVNT\_ANT1\_802\_11n(HT20)\_5240\_20M



## 7. Frequency Stability

| Condition          | Antenna | Modulation    | Frequency (MHz) | Fc(MHz)  | FI(MHz)  | Fh(MHz)  | Limit(MHz) | Result |
|--------------------|---------|---------------|-----------------|----------|----------|----------|------------|--------|
| 55degrees C&&5.0V  | ANT1    | 802.11a       | 5180.00         | 5180.050 | 5171.400 | 5188.700 | 5150~5250  | Pass   |
| 45degrees C&&5.0V  | ANT1    | 802.11a       | 5180.00         | 5180.024 | 5171.652 | 5188.396 | 5150~5250  | Pass   |
| 35degrees C&&5.0V  | ANT1    | 802.11a       | 5180.00         | 5180.020 | 5171.776 | 5188.264 | 5150~5250  | Pass   |
| 25degrees C&&5.0V  | ANT1    | 802.11a       | 5180.00         | 5180.018 | 5171.860 | 5188.176 | 5150~5250  | Pass   |
| 15degrees C&&5.0V  | ANT1    | 802.11a       | 5180.00         | 5180.008 | 5171.924 | 5188.092 | 5150~5250  | Pass   |
| 5degrees C&&5.0V   | ANT1    | 802.11a       | 5180.00         | 5180.006 | 5171.980 | 5188.032 | 5150~5250  | Pass   |
| -5degrees C&&5.0V  | ANT1    | 802.11a       | 5180.00         | 5180.024 | 5172.036 | 5188.012 | 5150~5250  | Pass   |
| -15degrees C&&5.0V | ANT1    | 802.11a       | 5180.00         | 5180.002 | 5172.080 | 5187.924 | 5150~5250  | Pass   |
| 25degrees C&&5.75V | ANT1    | 802.11a       | 5180.00         | 5179.992 | 5172.120 | 5187.864 | 5150~5250  | Pass   |
| 25degrees C&&5.0V  | ANT1    | 802.11a       | 5180.00         | 5179.994 | 5172.160 | 5187.828 | 5150~5250  | Pass   |
| 25degrees C&&4.28V | ANT1    | 802.11a       | 5180.00         | 5180.008 | 5172.204 | 5187.812 | 5150~5250  | Pass   |
| 55degrees C&&5.0V  | ANT1    | 802.11a       | 5200.00         | 5200.016 | 5191.336 | 5208.696 | 5150~5250  | Pass   |
| 45degrees C&&5.0V  | ANT1    | 802.11a       | 5200.00         | 5200.016 | 5191.640 | 5208.392 | 5150~5250  | Pass   |
| 35degrees C&&5.0V  | ANT1    | 802.11a       | 5200.00         | 5200.024 | 5191.788 | 5208.260 | 5150~5250  | Pass   |
| 25degrees C&&5.0V  | ANT1    | 802.11a       | 5200.00         | 5200.018 | 5191.868 | 5208.168 | 5150~5250  | Pass   |
| 15degrees C&&5.0V  | ANT1    | 802.11a       | 5200.00         | 5200.020 | 5191.924 | 5208.116 | 5150~5250  | Pass   |
| 5degrees C&&5.0V   | ANT1    | 802.11a       | 5200.00         | 5200.006 | 5191.976 | 5208.036 | 5150~5250  | Pass   |
| -5degrees C&&5.0V  | ANT1    | 802.11a       | 5200.00         | 5200.018 | 5192.032 | 5208.004 | 5150~5250  | Pass   |
| -15degrees C&&5.0V | ANT1    | 802.11a       | 5200.00         | 5199.998 | 5192.072 | 5207.924 | 5150~5250  | Pass   |
| 25degrees C&&5.75V | ANT1    | 802.11a       | 5200.00         | 5200.002 | 5192.116 | 5207.888 | 5150~5250  | Pass   |
| 25degrees C&&5.0V  | ANT1    | 802.11a       | 5200.00         | 5200.000 | 5192.172 | 5207.828 | 5150~5250  | Pass   |
| 25degrees C&&4.28V | ANT1    | 802.11a       | 5200.00         | 5199.996 | 5192.216 | 5207.776 | 5150~5250  | Pass   |
| 55degrees C&&5.0V  | ANT1    | 802.11a       | 5240.00         | 5240.024 | 5231.344 | 5248.704 | 5150~5250  | Pass   |
| 45degrees C&&5.0V  | ANT1    | 802.11a       | 5240.00         | 5239.998 | 5231.628 | 5248.368 | 5150~5250  | Pass   |
| 35degrees C&&5.0V  | ANT1    | 802.11a       | 5240.00         | 5239.996 | 5231.768 | 5248.224 | 5150~5250  | Pass   |
| 25degrees C&&5.0V  | ANT1    | 802.11a       | 5240.00         | 5239.994 | 5231.848 | 5248.140 | 5150~5250  | Pass   |
| 15degrees C&&5.0V  | ANT1    | 802.11a       | 5240.00         | 5240.008 | 5231.920 | 5248.096 | 5150~5250  | Pass   |
| 5degrees C&&5.0V   | ANT1    | 802.11a       | 5240.00         | 5240.002 | 5231.972 | 5248.032 | 5150~5250  | Pass   |
| -5degrees C&&5.0V  | ANT1    | 802.11a       | 5240.00         | 5239.990 | 5232.024 | 5247.956 | 5150~5250  | Pass   |
| -15degrees C&&5.0V | ANT1    | 802.11a       | 5240.00         | 5239.990 | 5232.072 | 5247.908 | 5150~5250  | Pass   |
| 25degrees C&&5.75V | ANT1    | 802.11a       | 5240.00         | 5240.002 | 5232.128 | 5247.876 | 5150~5250  | Pass   |
| 25degrees C&&5.0V  | ANT1    | 802.11a       | 5240.00         | 5239.996 | 5232.180 | 5247.812 | 5150~5250  | Pass   |
| 25degrees C&&4.28V | ANT1    | 802.11a       | 5240.00         | 5239.998 | 5232.224 | 5247.772 | 5150~5250  | Pass   |
| 55degrees C&&5.0V  | ANT1    | 802.11n(HT20) | 5180.00         | 5180.000 | 5170.832 | 5189.168 | 5150~5250  | Pass   |
| 45degrees C&&5.0V  | ANT1    | 802.11n(HT20) | 5180.00         | 5180.008 | 5171.124 | 5188.892 | 5150~5250  | Pass   |
| 35degrees C&&5.0V  | ANT1    | 802.11n(HT20) | 5180.00         | 5180.016 | 5171.256 | 5188.776 | 5150~5250  | Pass   |
| 25degrees C&&5.0V  | ANT1    | 802.11n(HT20) | 5180.00         | 5180.016 | 5171.340 | 5188.692 | 5150~5250  | Pass   |
| 15degrees C&&5.0V  | ANT1    | 802.11n(HT20) | 5180.00         | 5180.022 | 5171.412 | 5188.632 | 5150~5250  | Pass   |
| 5degrees C&&5.0V   | ANT1    | 802.11n(HT20) | 5180.00         | 5180.012 | 5171.472 | 5188.552 | 5150~5250  | Pass   |
| -5degrees C&&5.0V  | ANT1    | 802.11n(HT20) | 5180.00         | 5180.004 | 5171.536 | 5188.472 | 5150~5250  | Pass   |
| -15degrees C&&5.0V | ANT1    | 802.11n(HT20) | 5180.00         | 5179.992 | 5171.588 | 5188.396 | 5150~5250  | Pass   |
| 25degrees C&&5.75V | ANT1    | 802.11n(HT20) | 5180.00         | 5180.006 | 5171.652 | 5188.360 | 5150~5250  | Pass   |
| 25degrees C&&5.0V  | ANT1    | 802.11n(HT20) | 5180.00         | 5180.002 | 5171.704 | 5188.300 | 5150~5250  | Pass   |
| 25degrees C&&4.28V | ANT1    | 802.11n(HT20) | 5180.00         | 5180.010 | 5171.756 | 5188.264 | 5150~5250  | Pass   |
| 55degrees C&&5.0V  | ANT1    | 802.11n(HT20) | 5200.00         | 5200.024 | 5190.868 | 5209.180 | 5150~5250  | Pass   |
| 45degrees C&&5.0V  | ANT1    | 802.11n(HT20) | 5200.00         | 5200.004 | 5191.116 | 5208.892 | 5150~5250  | Pass   |
| 35degrees C&&5.0V  | ANT1    | 802.11n(HT20) | 5200.00         | 5200.018 | 5191.252 | 5208.784 | 5150~5250  | Pass   |
| 25degrees C&&5.0V  | ANT1    | 802.11n(HT20) | 5200.00         | 5200.012 | 5191.336 | 5208.688 | 5150~5250  | Pass   |
| 15degrees C&&5.0V  | ANT1    | 802.11n(HT20) | 5200.00         | 5200.012 | 5191.412 | 5208.612 | 5150~5250  | Pass   |
| 5degrees C&&5.0V   | ANT1    | 802.11n(HT20) | 5200.00         | 5200.010 | 5191.480 | 5208.540 | 5150~5250  | Pass   |
| -5degrees C&&5.0V  | ANT1    | 802.11n(HT20) | 5200.00         | 5200.014 | 5191.536 | 5208.492 | 5150~5250  | Pass   |
| -15degrees C&&5.0V | ANT1    | 802.11n(HT20) | 5200.00         | 5199.986 | 5191.584 | 5208.388 | 5150~5250  | Pass   |
| 25degrees C&&5.75V | ANT1    | 802.11n(HT20) | 5200.00         | 5199.986 | 5191.640 | 5208.332 | 5150~5250  | Pass   |
| 25degrees C&&5.0V  | ANT1    | 802.11n(HT20) | 5200.00         | 5199.992 | 5191.692 | 5208.292 | 5150~5250  | Pass   |
| 25degrees C&&4.28V | ANT1    | 802.11n(HT20) | 5200.00         | 5199.990 | 5191.736 | 5208.244 | 5150~5250  | Pass   |
| 55degrees C&&5.0V  | ANT1    | 802.11n(HT20) | 5240.00         | 5240.024 | 5230.876 | 5249.172 | 5150~5250  | Pass   |
| 45degrees C&&5.0V  | ANT1    | 802.11n(HT20) | 5240.00         | 5239.998 | 5231.128 | 5248.868 | 5150~5250  | Pass   |
| 35degrees C&&5.0V  | ANT1    | 802.11n(HT20) | 5240.00         | 5240.012 | 5231.260 | 5248.764 | 5150~5250  | Pass   |
| 25degrees C&&5.0V  | ANT1    | 802.11n(HT20) | 5240.00         | 5240.006 | 5231.340 | 5248.672 | 5150~5250  | Pass   |
| 15degrees C&&5.0V  | ANT1    | 802.11n(HT20) | 5240.00         | 5240.006 | 5231.416 | 5248.596 | 5150~5250  | Pass   |
| 5degrees C&&5.0V   | ANT1    | 802.11n(HT20) | 5240.00         | 5239.996 | 5231.480 | 5248.512 | 5150~5250  | Pass   |
| -5degrees C&&5.0V  | ANT1    | 802.11n(HT20) | 5240.00         | 5239.990 | 5231.532 | 5248.448 | 5150~5250  | Pass   |
| -15degrees C&&5.0V | ANT1    | 802.11n(HT20) | 5240.00         | 5239.994 | 5231.580 | 5248.408 | 5150~5250  | Pass   |
| 25degrees C&&5.75V | ANT1    | 802.11n(HT20) | 5240.00         | 5239.988 | 5231.636 | 5248.340 | 5150~5250  | Pass   |
| 25degrees C&&5.0V  | ANT1    | 802.11n(HT20) | 5240.00         | 5239.982 | 5231.684 | 5248.280 | 5150~5250  | Pass   |
| 25degrees C&&4.28V | ANT1    | 802.11n(HT20) | 5240.00         | 5239.970 | 5231.732 | 5248.208 | 5150~5250  | Pass   |