



## Appendix C for SHEM200700634503

### 1. Duty Cycle

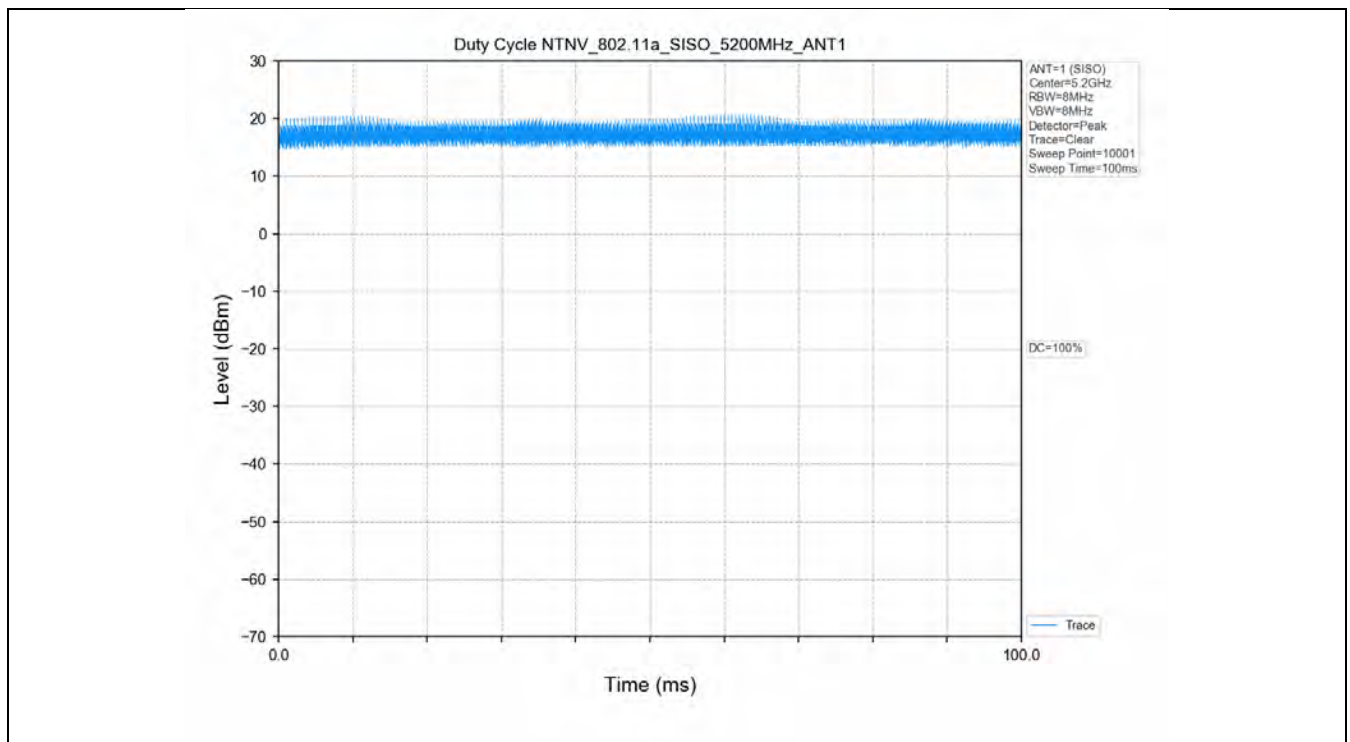
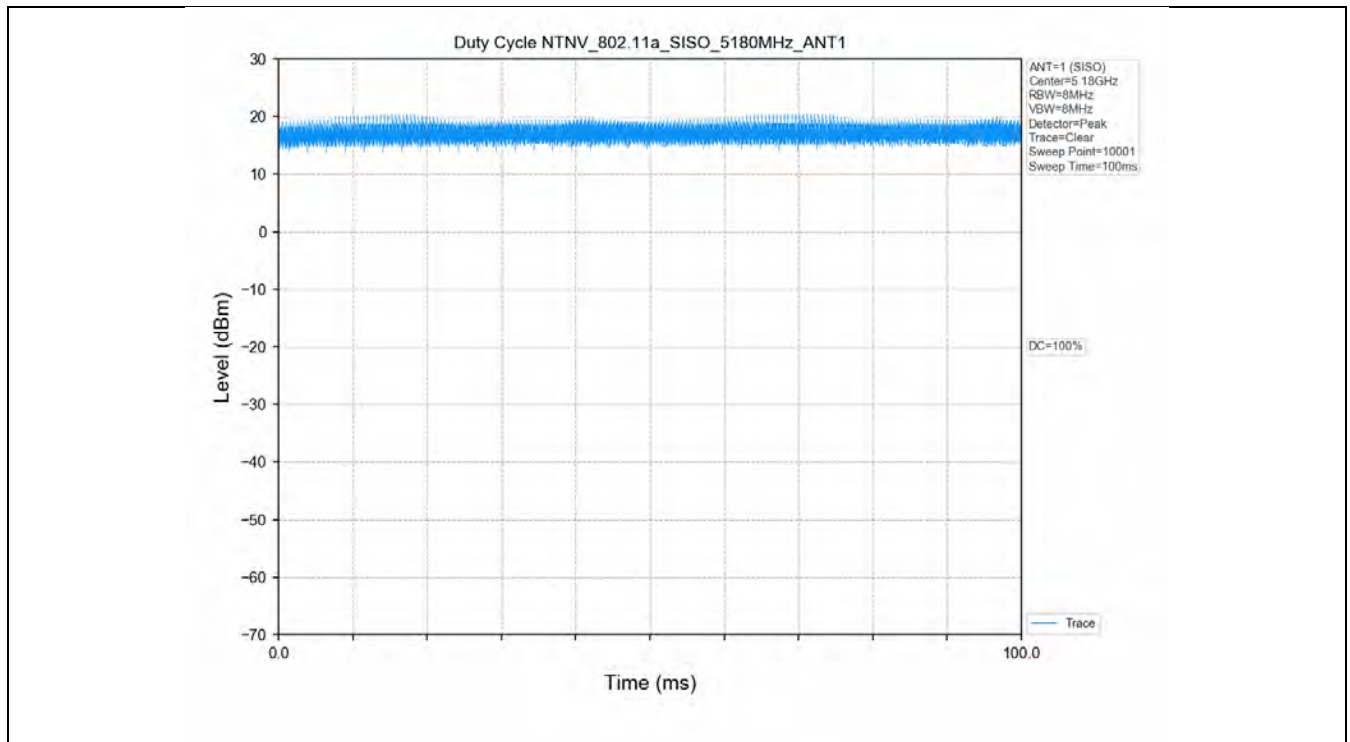
#### 1.1 Test Result

| Test Mode       | Channel Frequency (MHz) | TX Type | ANT No. | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) |
|-----------------|-------------------------|---------|---------|-----------|-------------|----------------|-----------------------------------|
| 802.11a         | 5180                    | SISO    | 1       | 100.000   | 100.000     | 100.00         | 0.00                              |
|                 | 5200                    | SISO    | 1       | 100.000   | 100.000     | 100.00         | 0.00                              |
|                 | 5240                    | SISO    | 1       | 100.000   | 100.000     | 100.00         | 0.00                              |
|                 | 5745                    | SISO    | 1       | 100.000   | 100.000     | 100.00         | 0.00                              |
|                 | 5785                    | SISO    | 1       | 100.000   | 100.000     | 100.00         | 0.00                              |
|                 | 5825                    | SISO    | 1       | 100.000   | 100.000     | 100.00         | 0.00                              |
| 802.11n(HT20)   | 5180                    | MIMO    | 1       | 100.000   | 100.000     | 100.00         | 0.00                              |
|                 | 5200                    | MIMO    | 1       | 100.000   | 100.000     | 100.00         | 0.00                              |
|                 | 5240                    | MIMO    | 1       | 100.000   | 100.000     | 100.00         | 0.00                              |
|                 | 5745                    | MIMO    | 1       | 100.000   | 100.000     | 100.00         | 0.00                              |
|                 | 5785                    | MIMO    | 1       | 100.000   | 100.000     | 100.00         | 0.00                              |
|                 | 5825                    | MIMO    | 1       | 100.000   | 100.000     | 100.00         | 0.00                              |
| 802.11n(HT40)   | 5190                    | MIMO    | 1       | 100.000   | 100.000     | 100.00         | 0.00                              |
|                 | 5230                    | MIMO    | 1       | 100.000   | 100.000     | 100.00         | 0.00                              |
|                 | 5755                    | MIMO    | 1       | 100.000   | 100.000     | 100.00         | 0.00                              |
|                 | 5795                    | MIMO    | 1       | 100.000   | 100.000     | 100.00         | 0.00                              |
| 802.11ac(VHT20) | 5180                    | MIMO    | 1       | 100.000   | 100.000     | 100.00         | 0.00                              |
|                 | 5200                    | MIMO    | 1       | 100.000   | 100.000     | 100.00         | 0.00                              |
|                 | 5240                    | MIMO    | 1       | 100.000   | 100.000     | 100.00         | 0.00                              |
|                 | 5745                    | MIMO    | 1       | 100.000   | 100.000     | 100.00         | 0.00                              |
|                 | 5785                    | MIMO    | 1       | 100.000   | 100.000     | 100.00         | 0.00                              |
|                 | 5825                    | MIMO    | 1       | 100.000   | 100.000     | 100.00         | 0.00                              |
| 802.11ac(VHT40) | 5190                    | MIMO    | 1       | 100.000   | 100.000     | 100.00         | 0.00                              |
|                 | 5230                    | MIMO    | 1       | 100.000   | 100.000     | 100.00         | 0.00                              |
|                 | 5755                    | MIMO    | 1       | 100.000   | 100.000     | 100.00         | 0.00                              |
|                 | 5795                    | MIMO    | 1       | 100.000   | 100.000     | 100.00         | 0.00                              |
| 802.11ac(VHT80) | 5210                    | MIMO    | 1       | 100.000   | 100.000     | 100.00         | 0.00                              |
|                 | 5775                    | MIMO    | 1       | 100.000   | 100.000     | 100.00         | 0.00                              |

#### 1.2 Test Graph

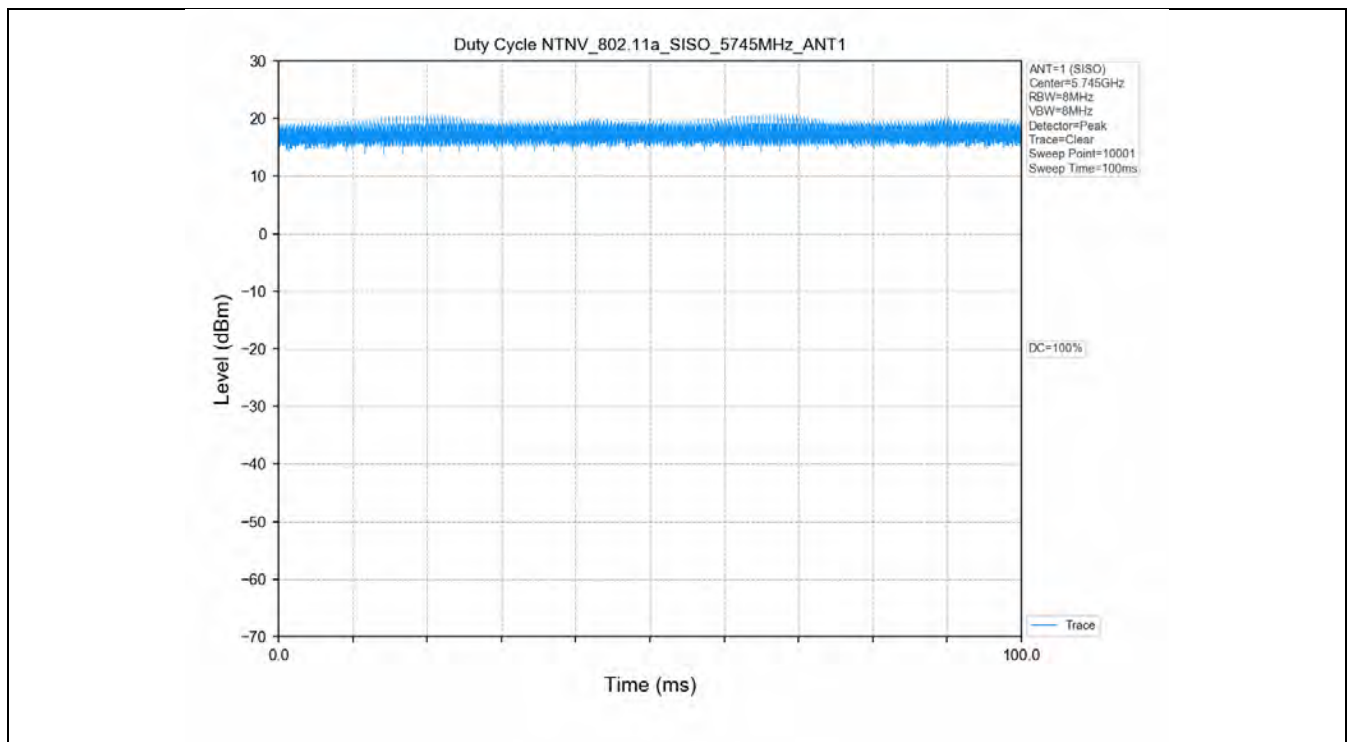
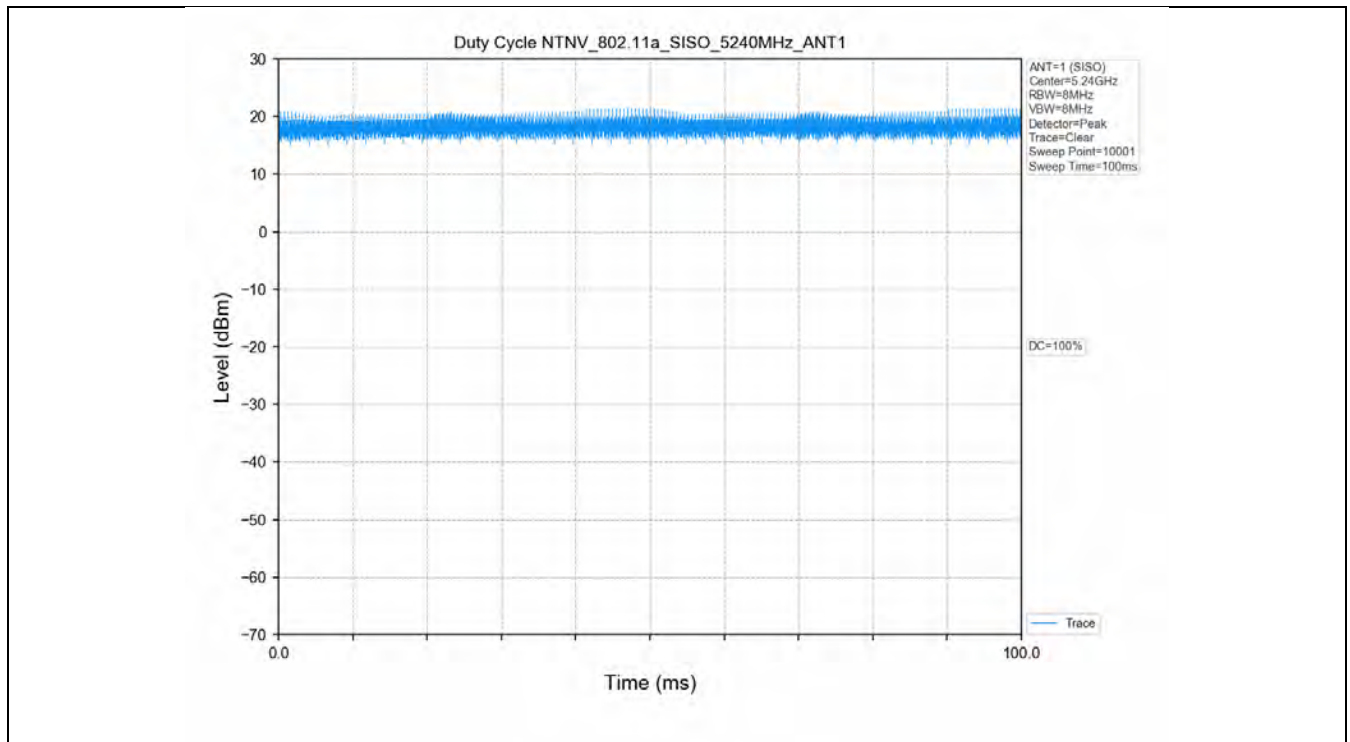


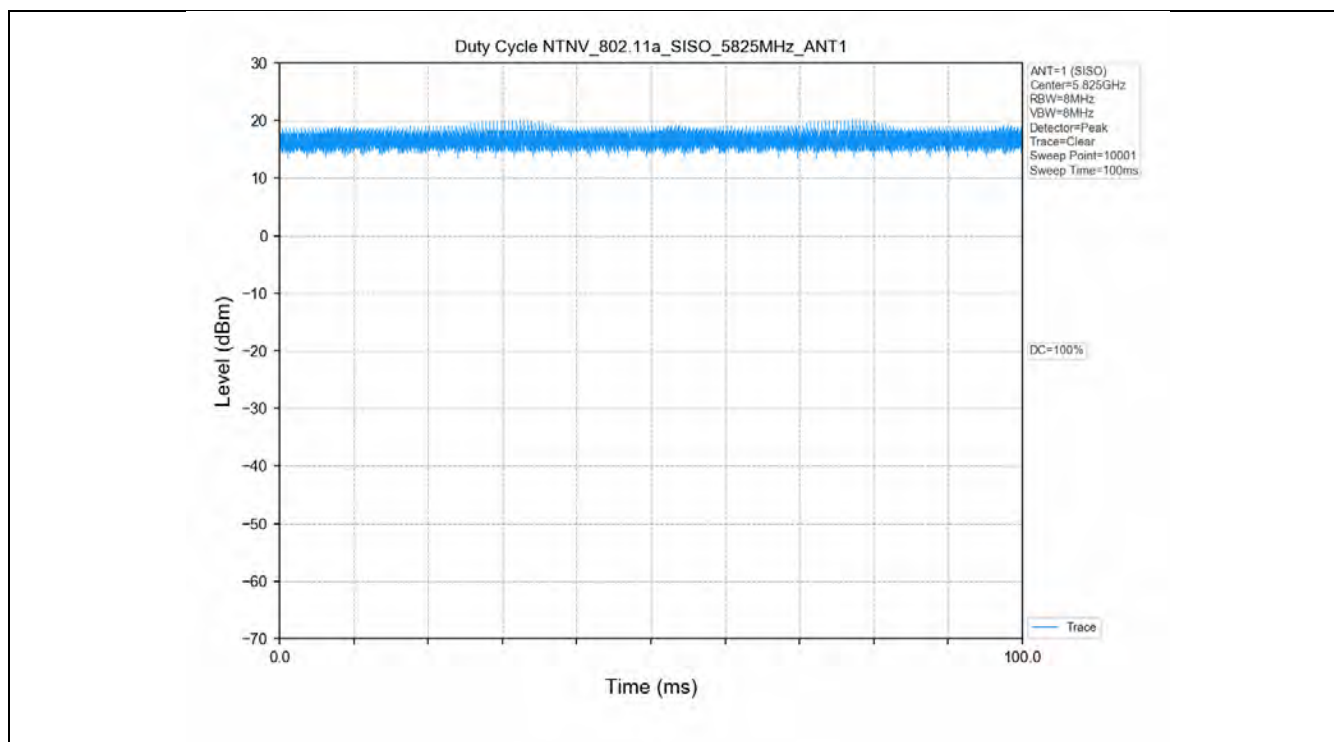
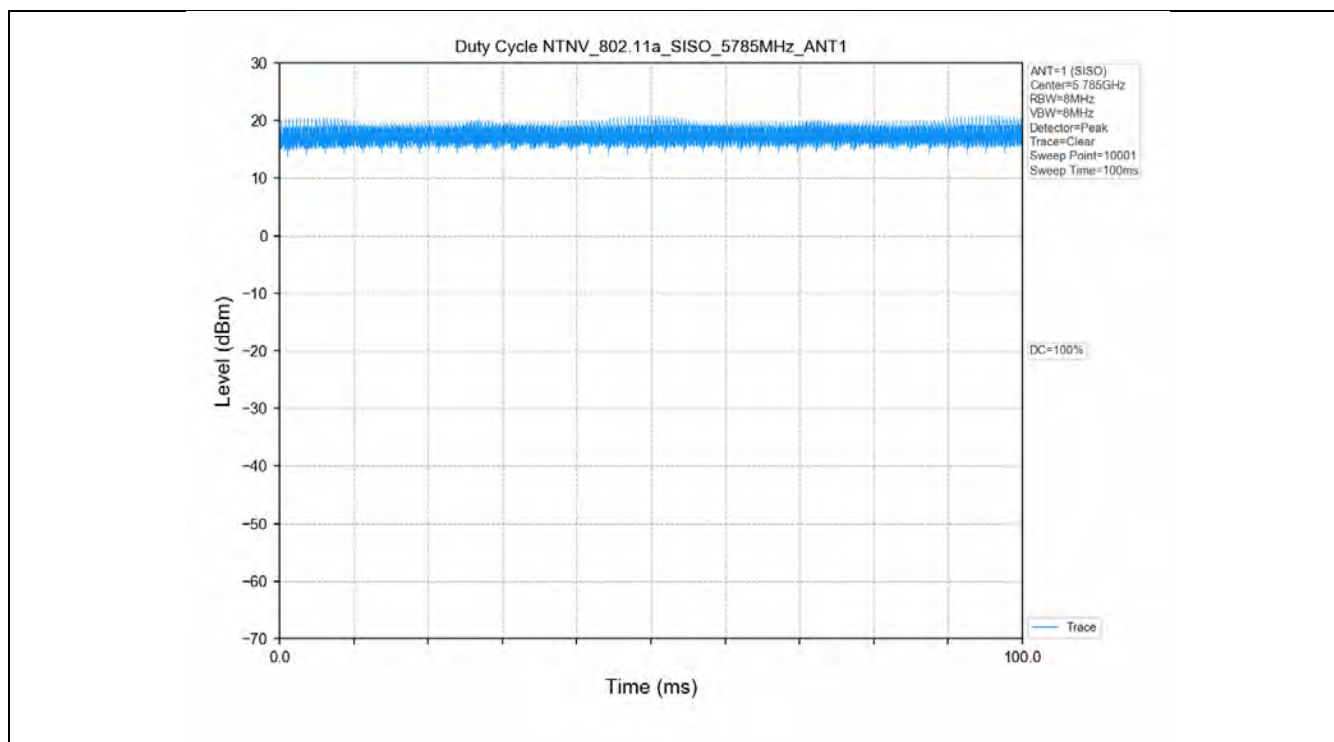
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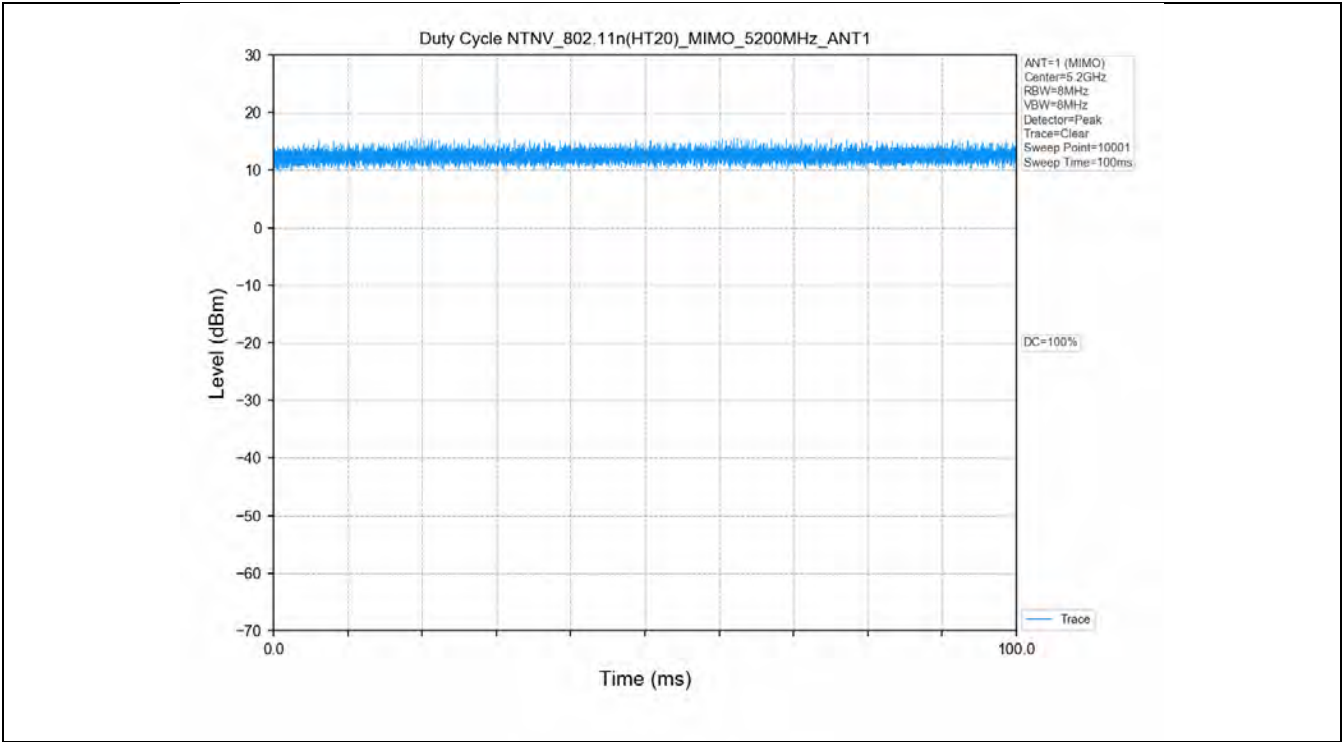
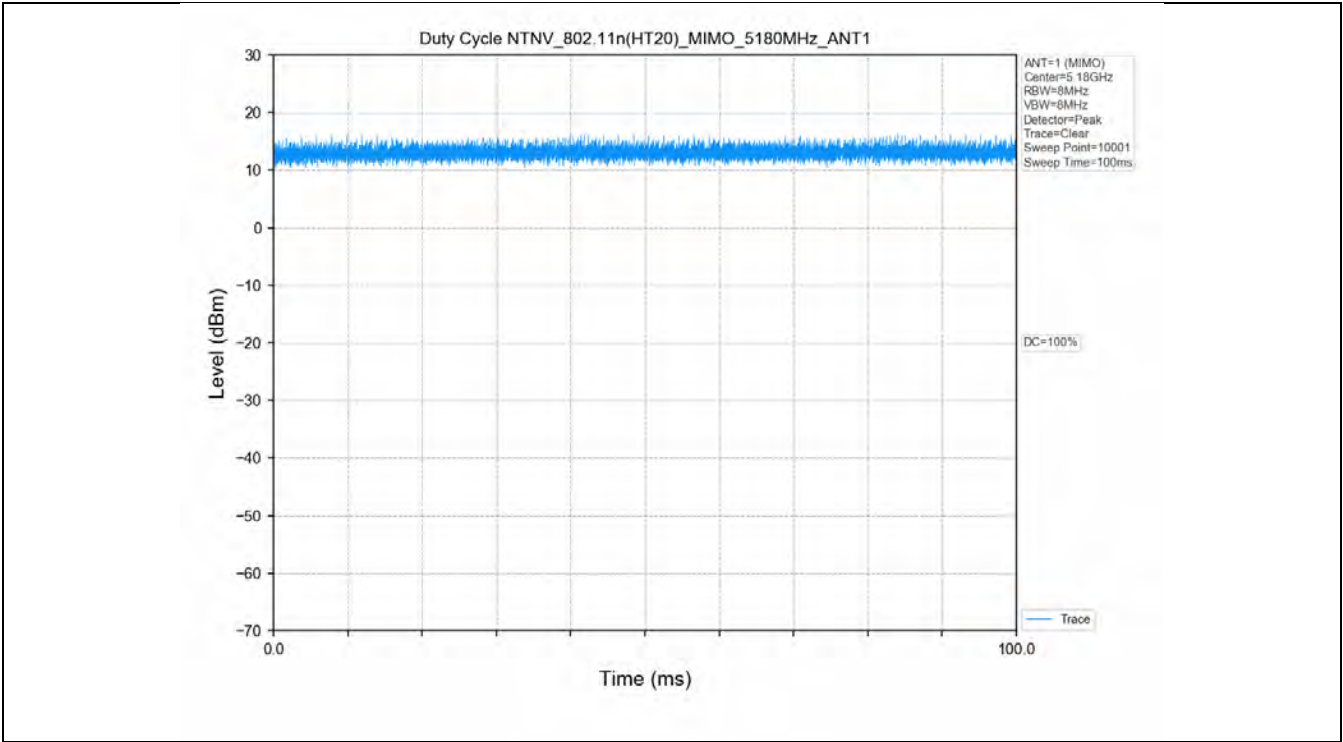


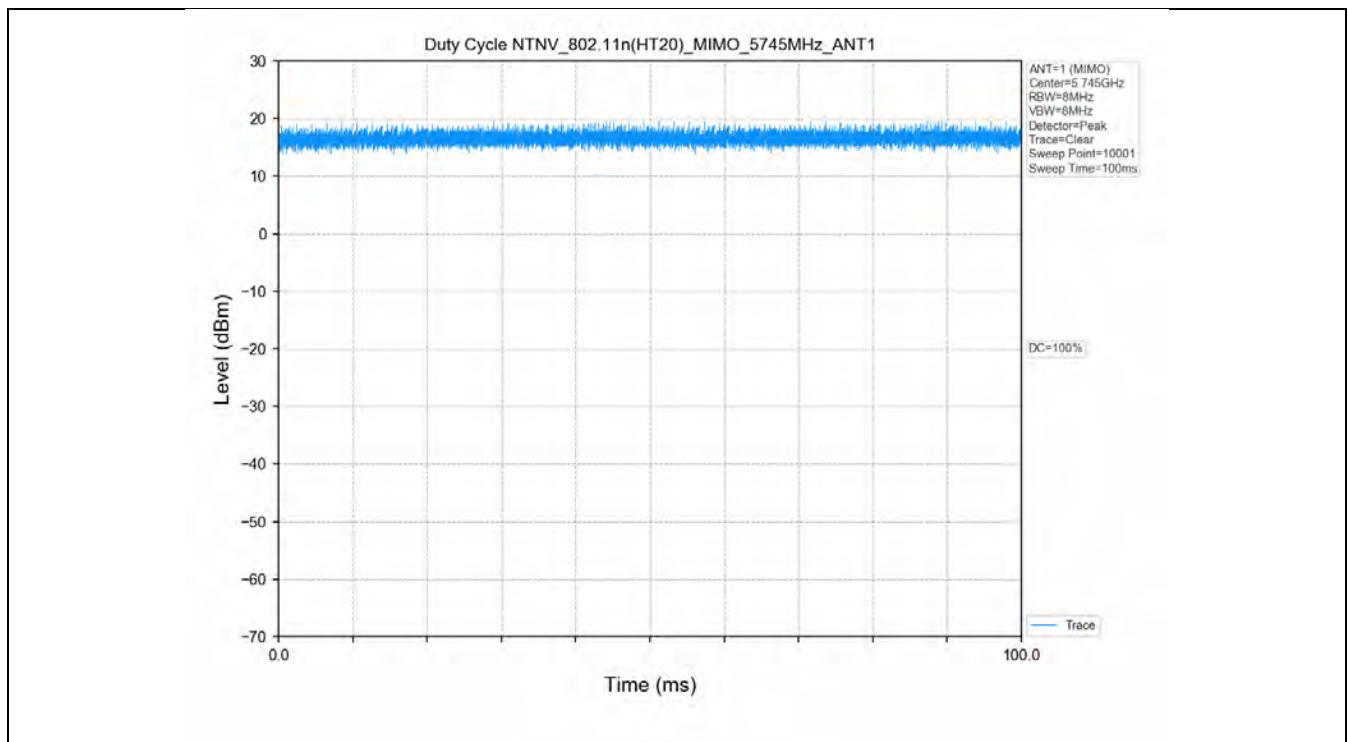
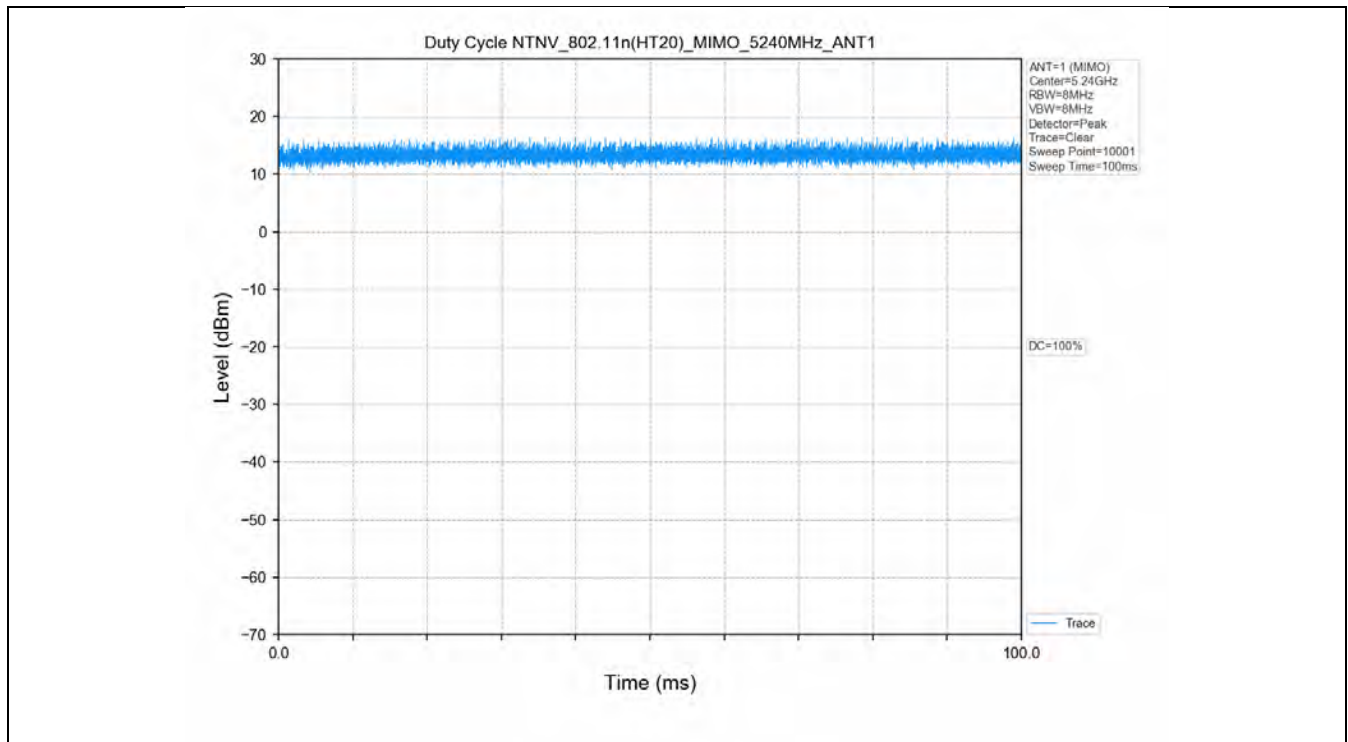


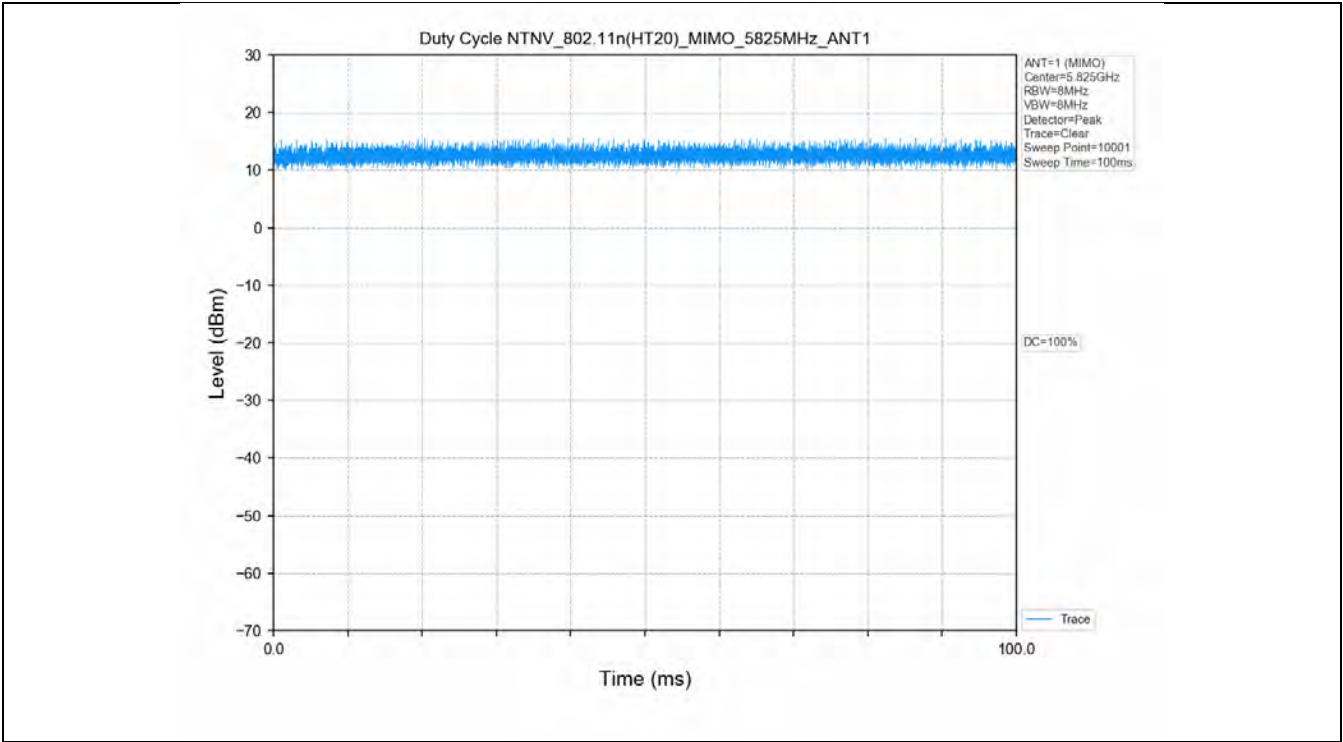
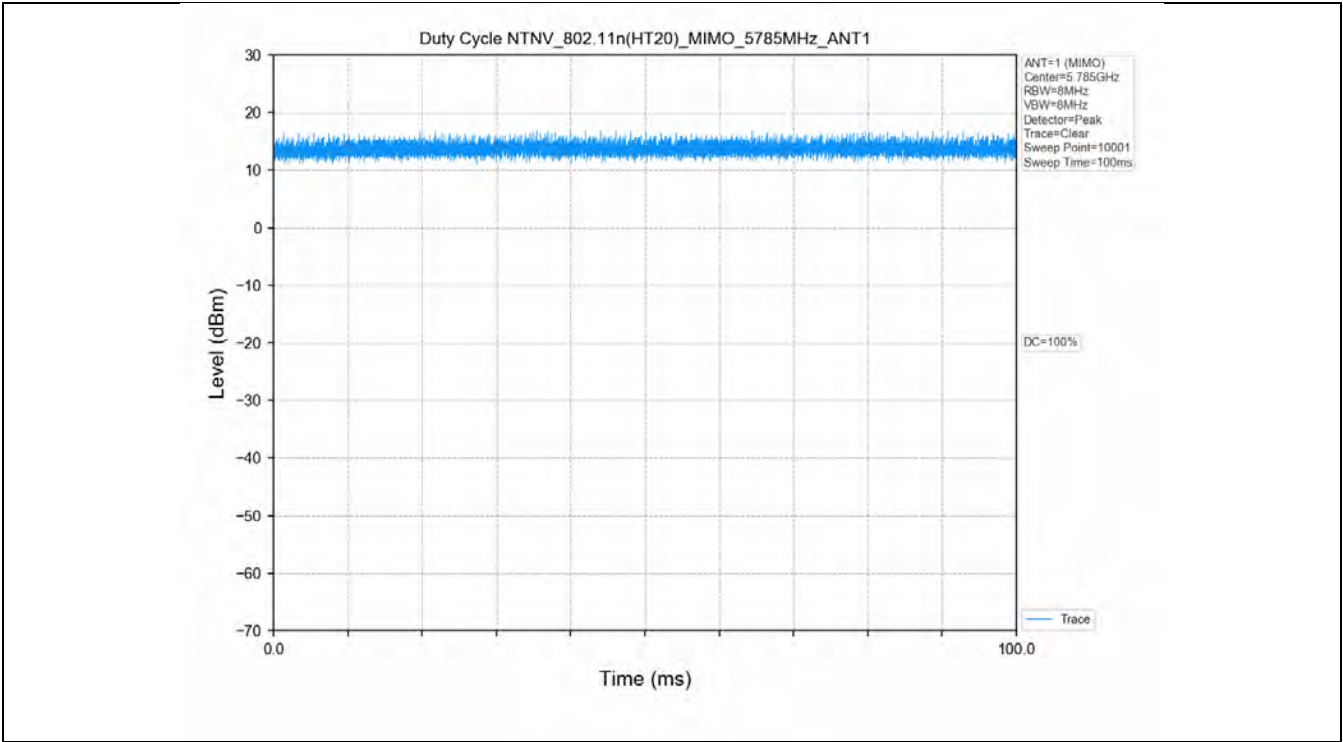
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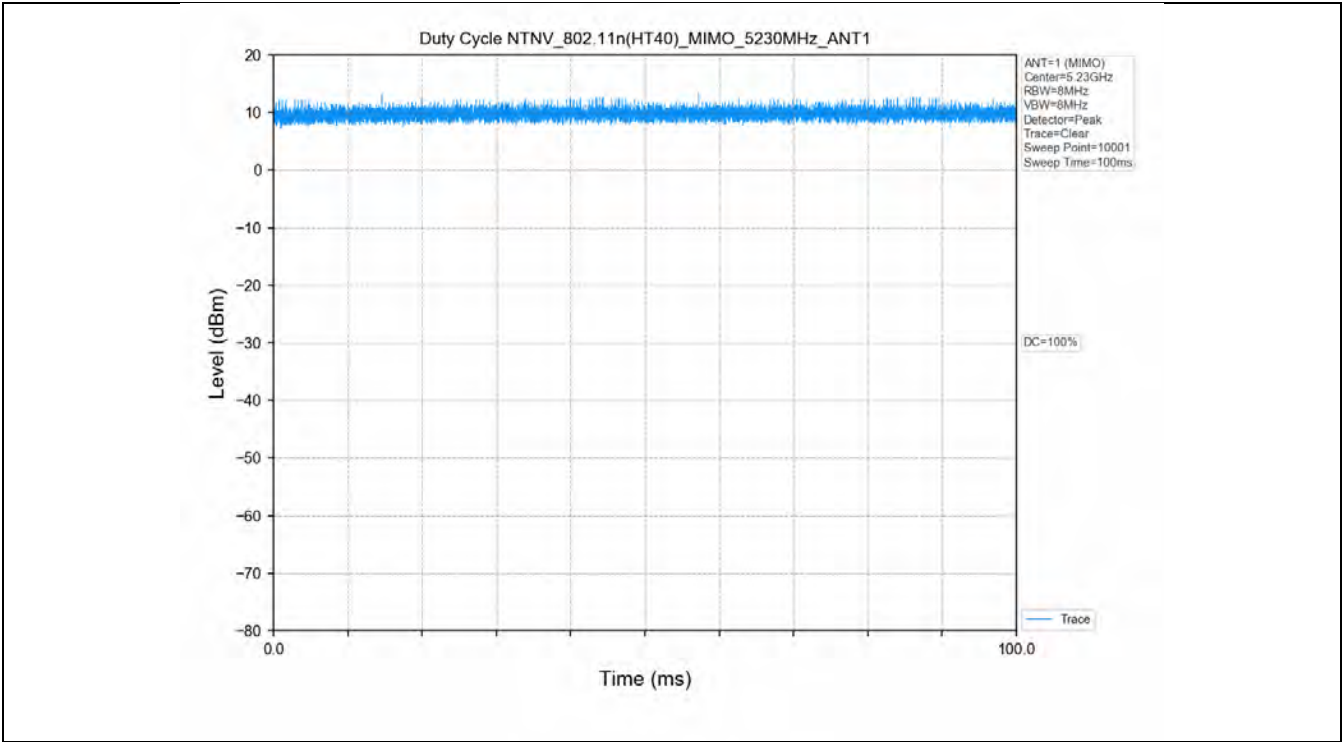
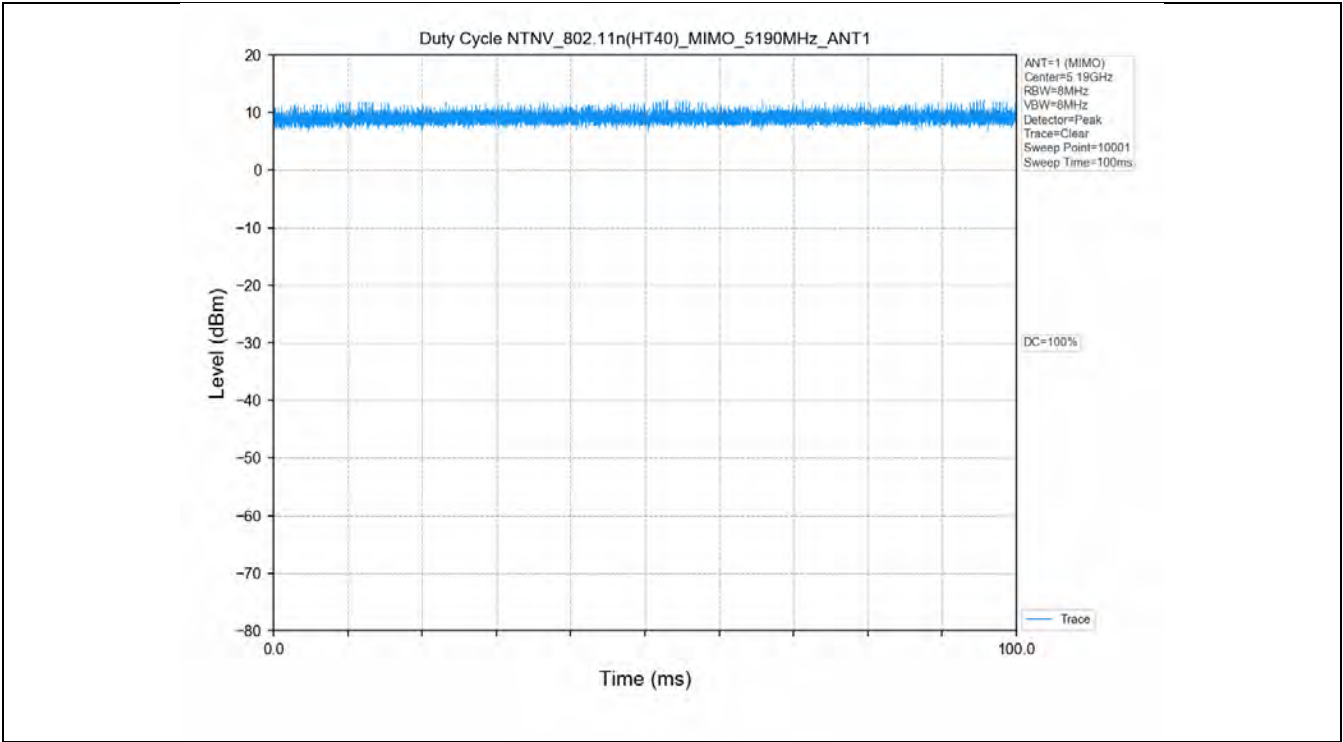






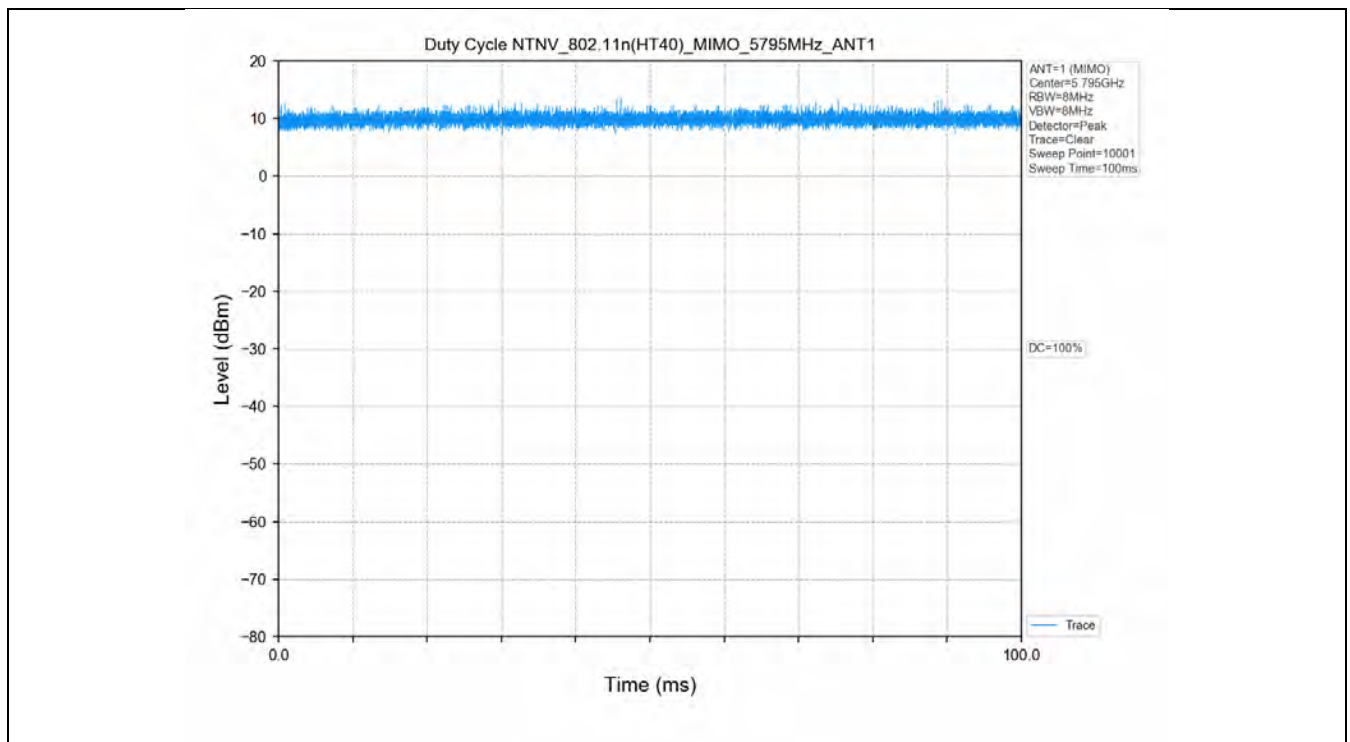
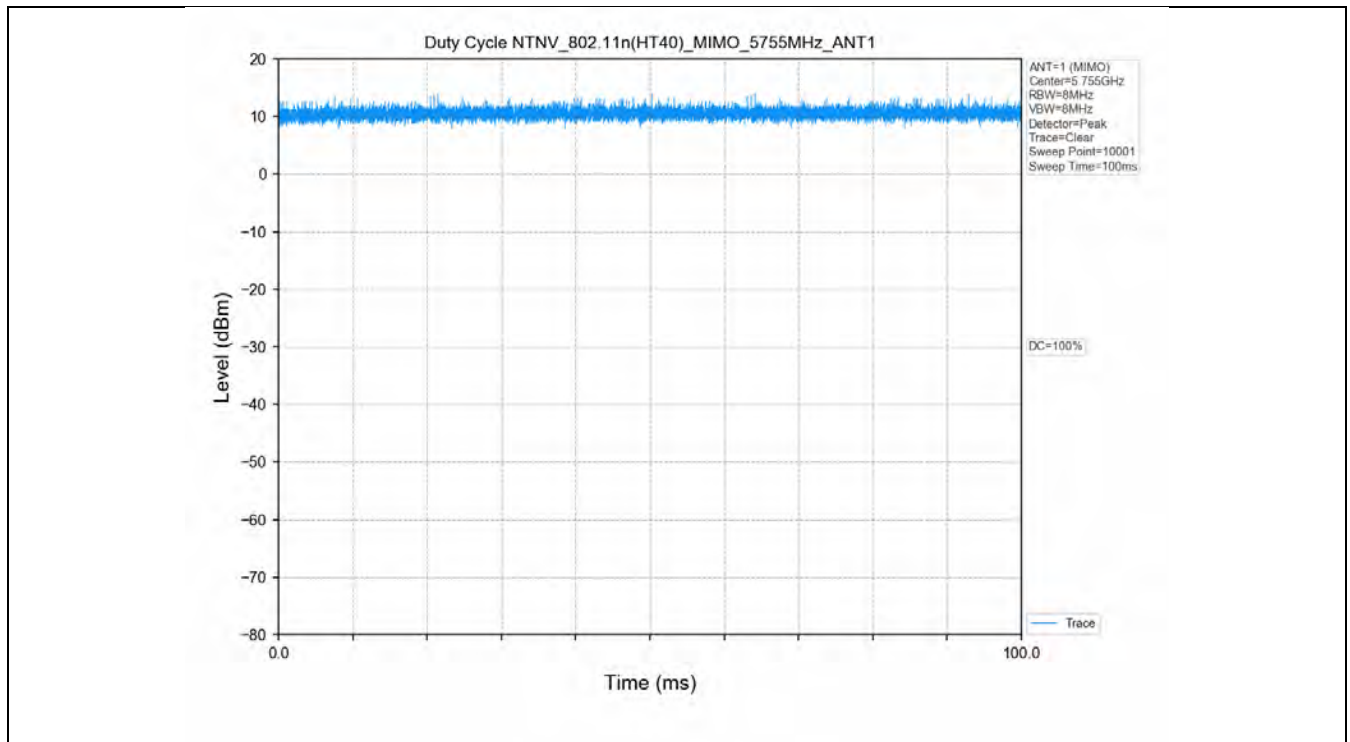


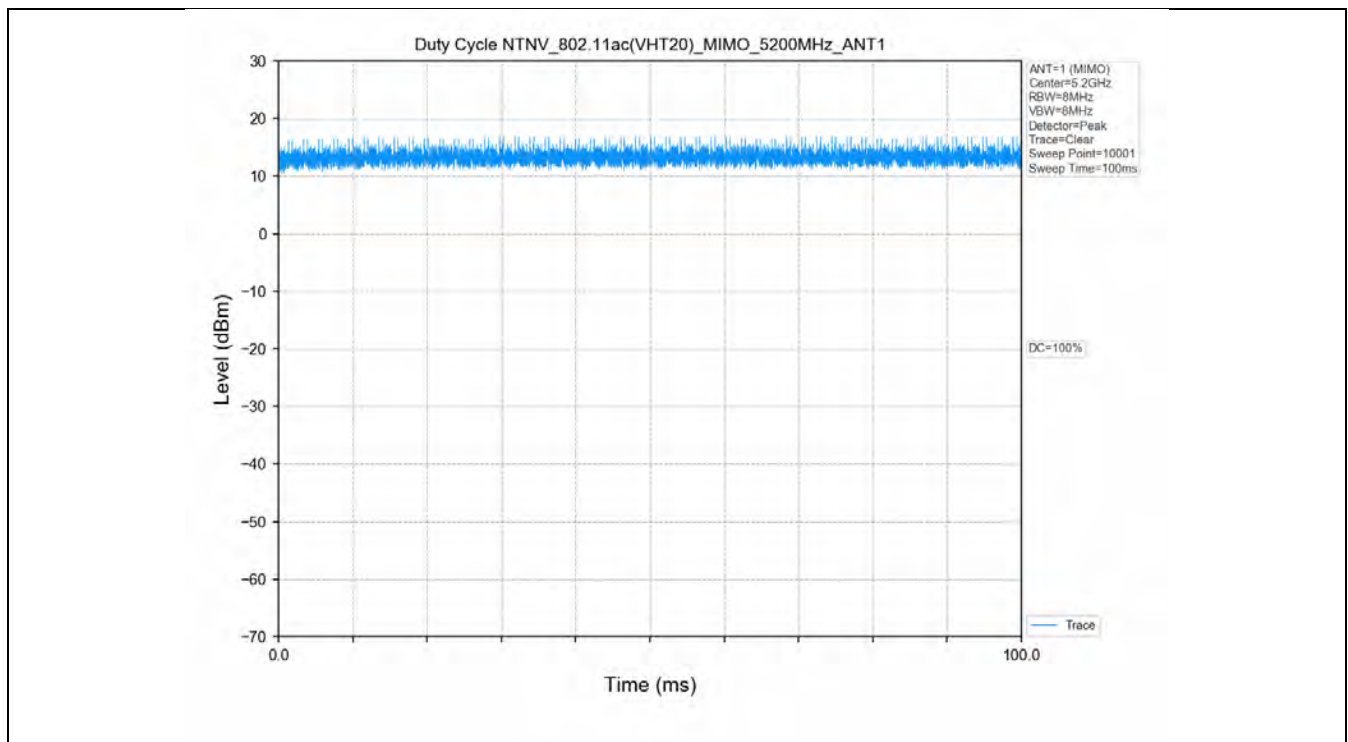
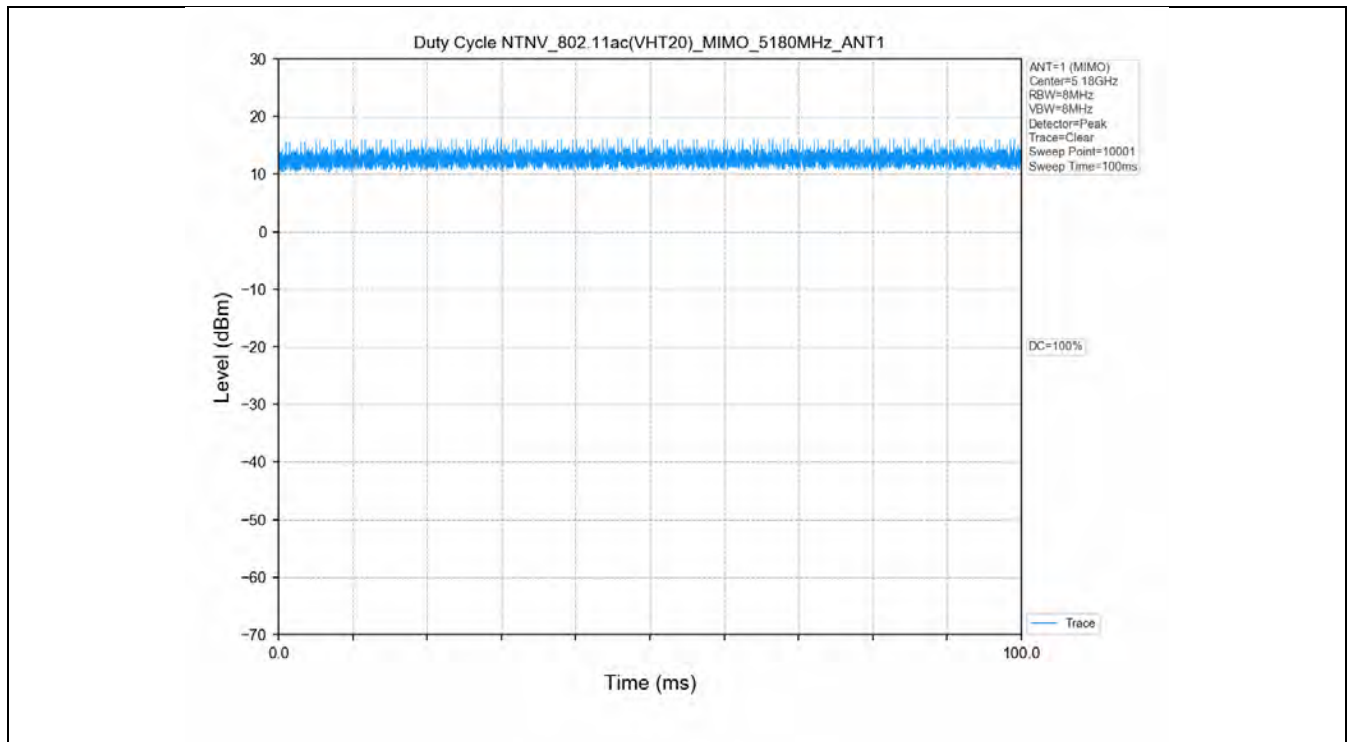


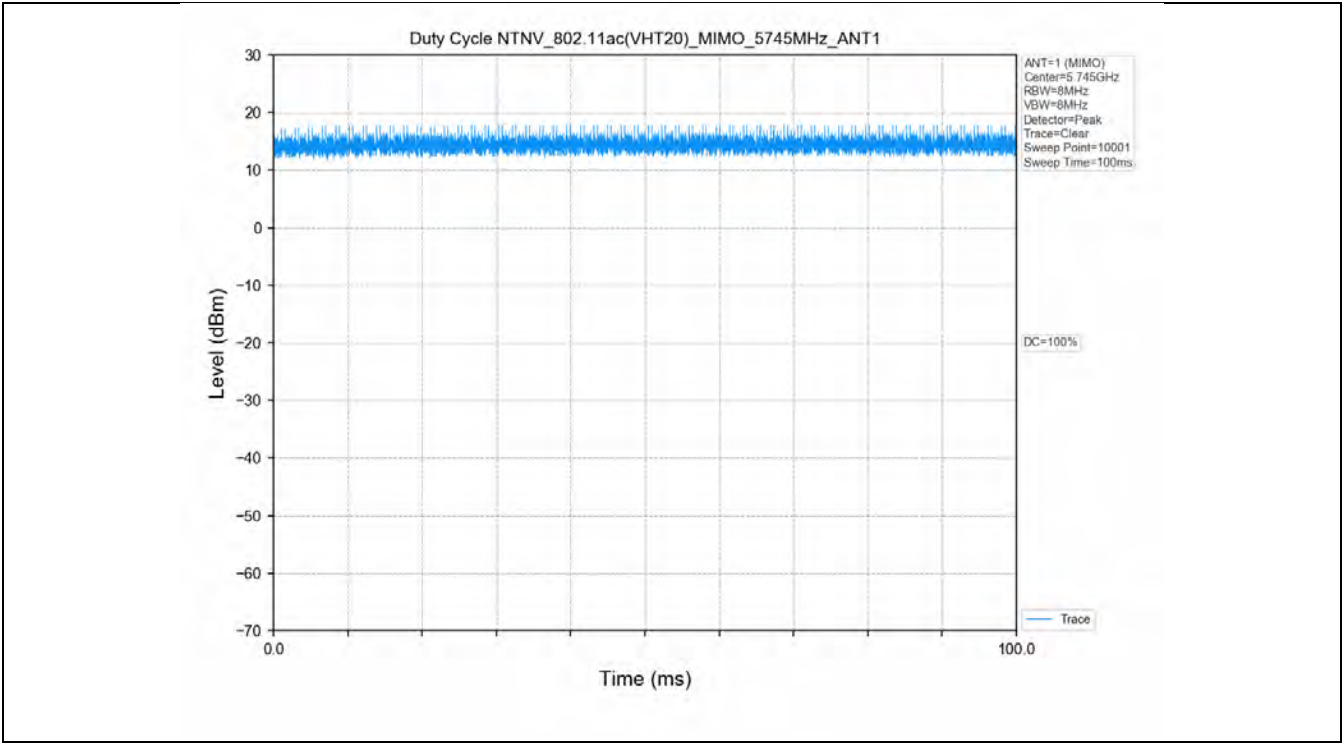
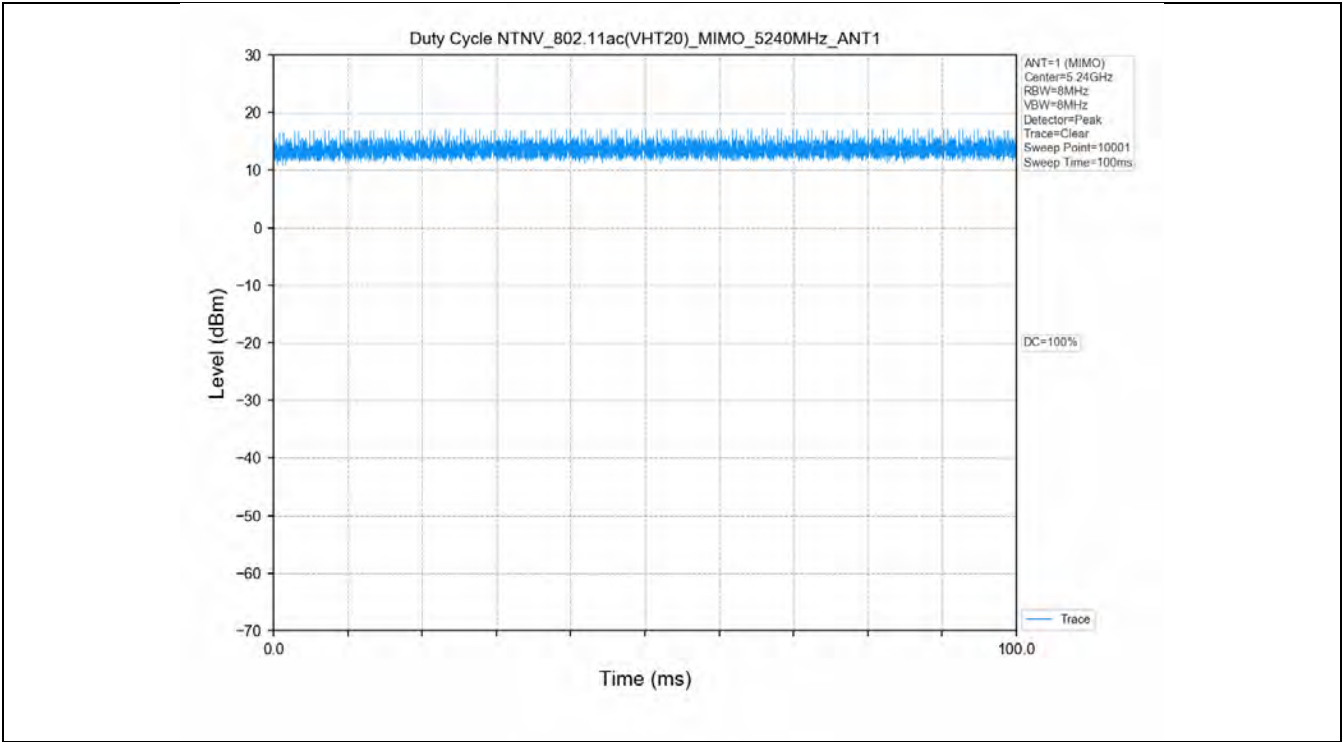




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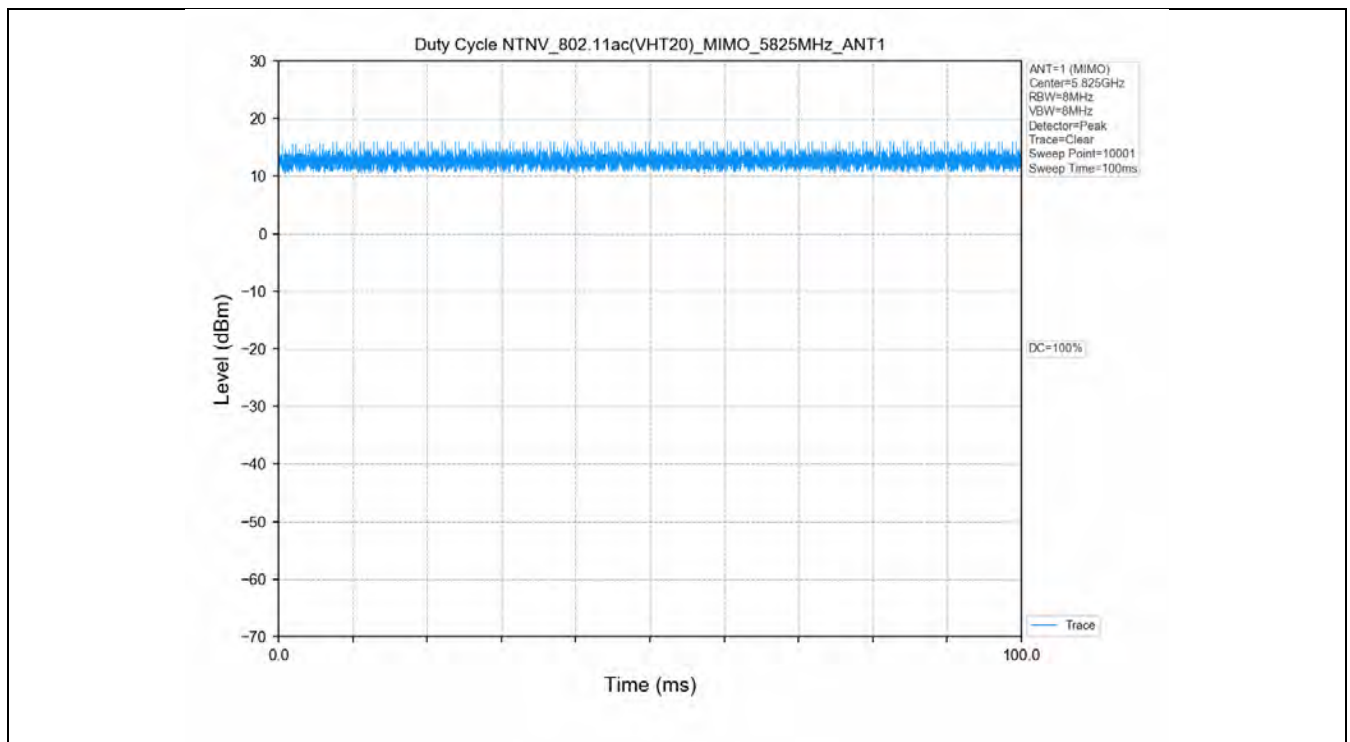
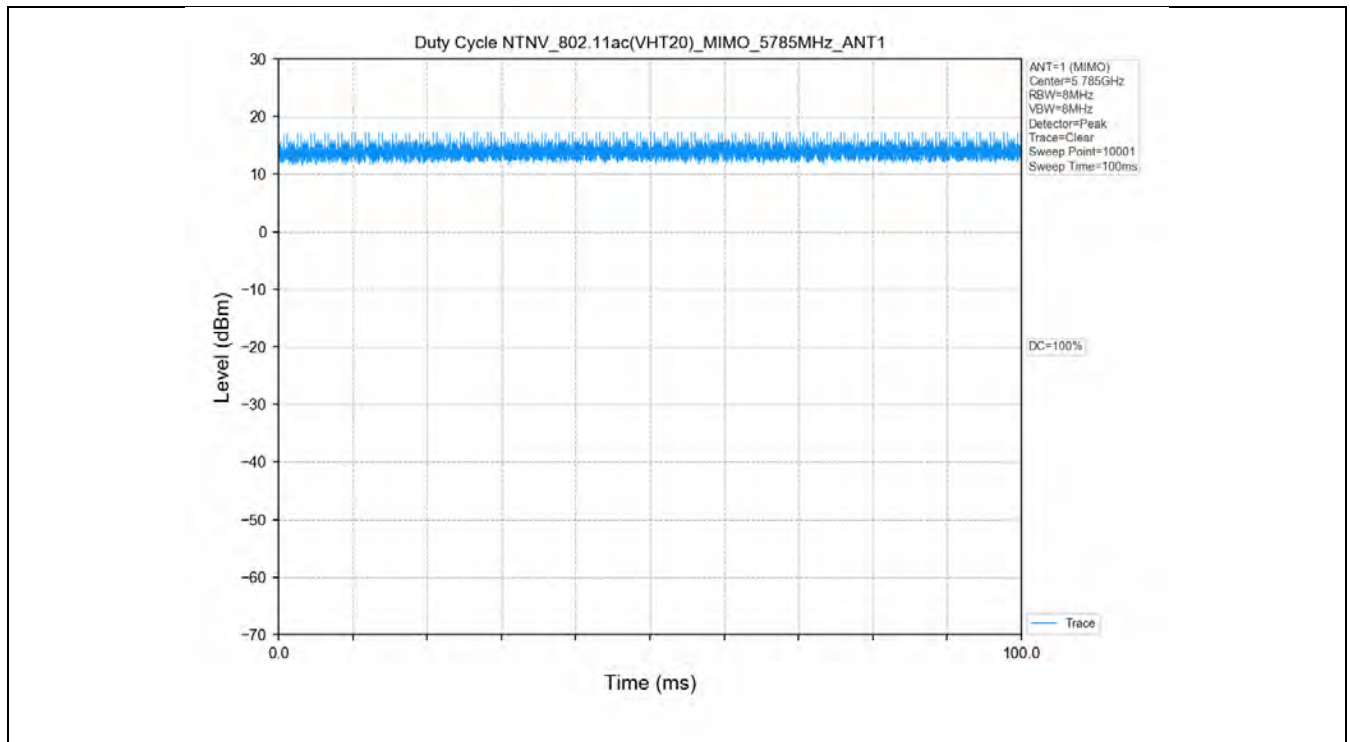


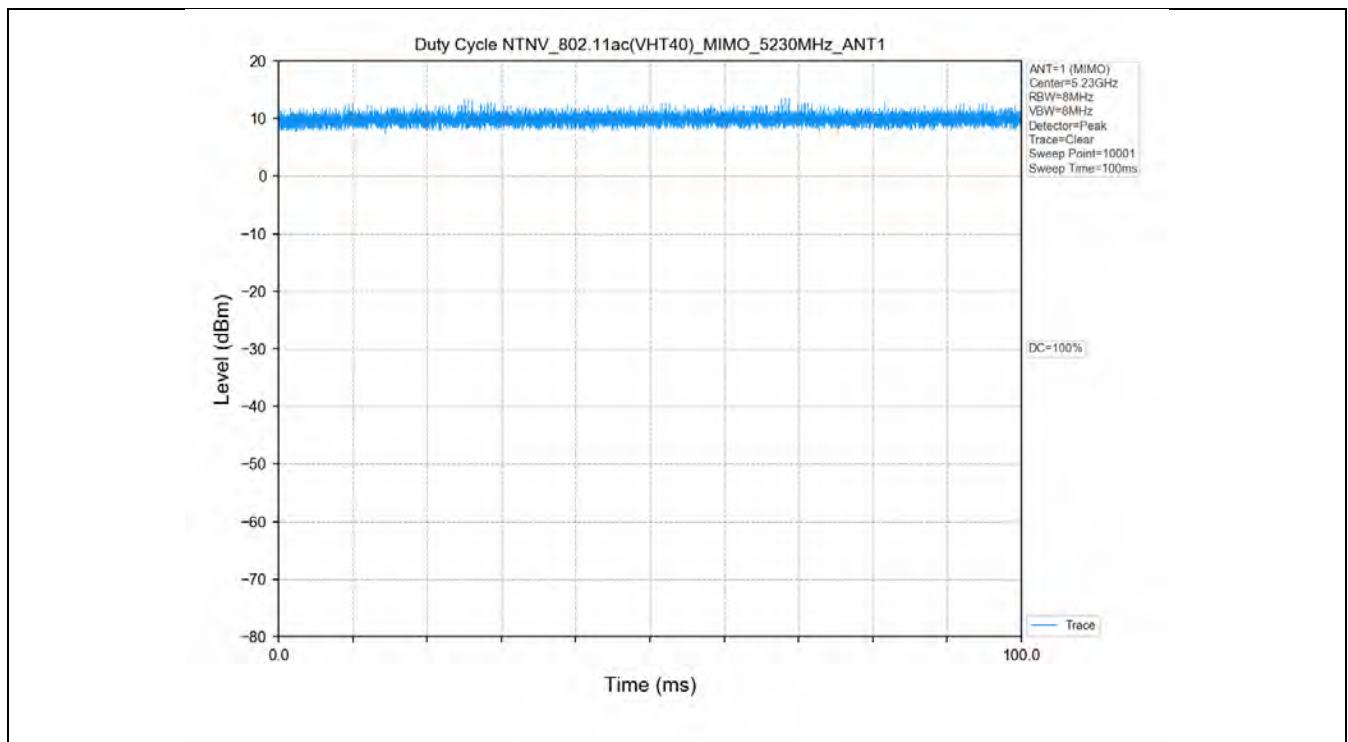
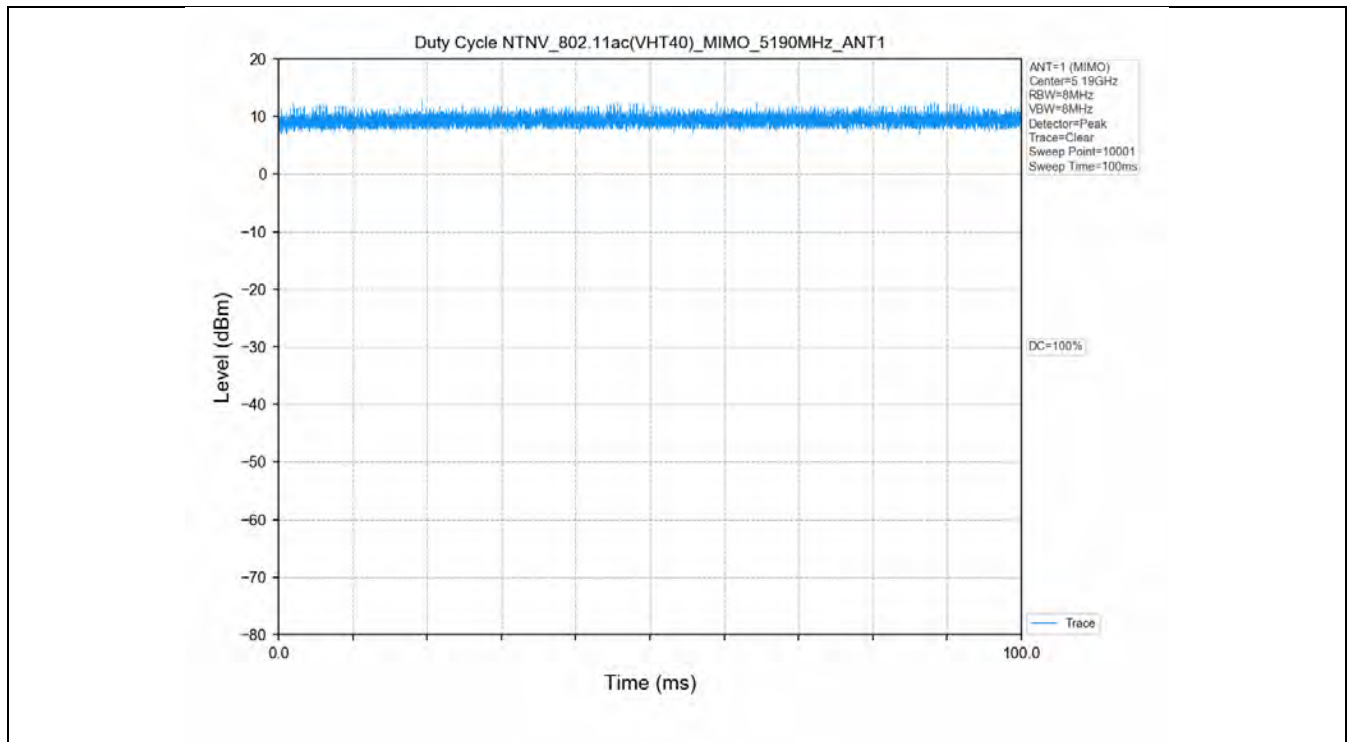


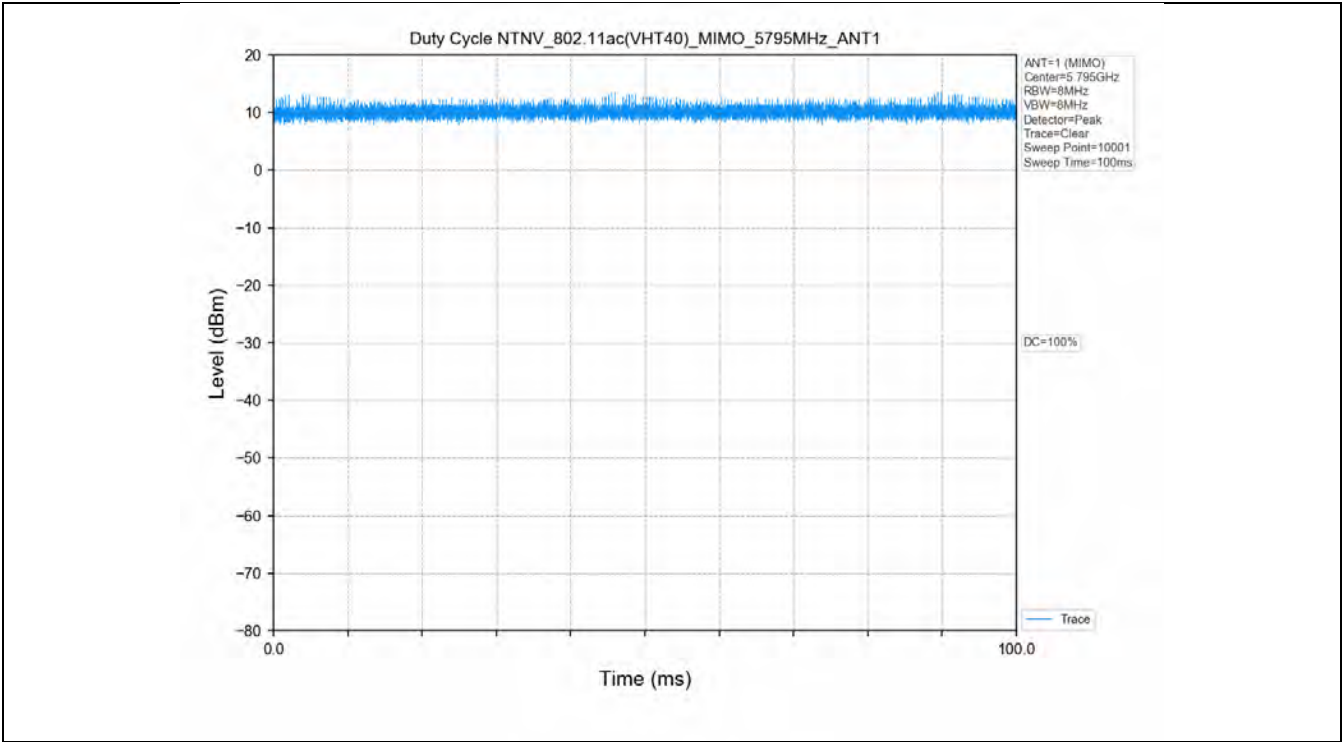
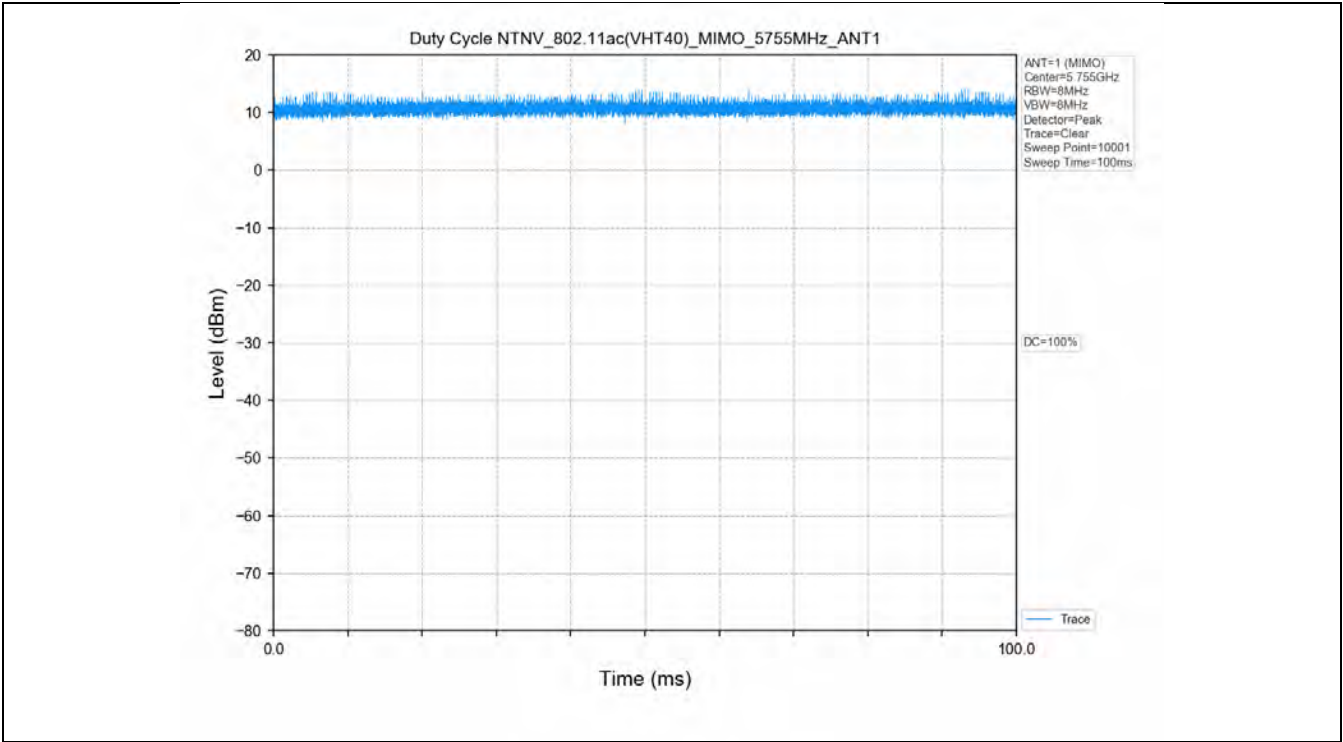




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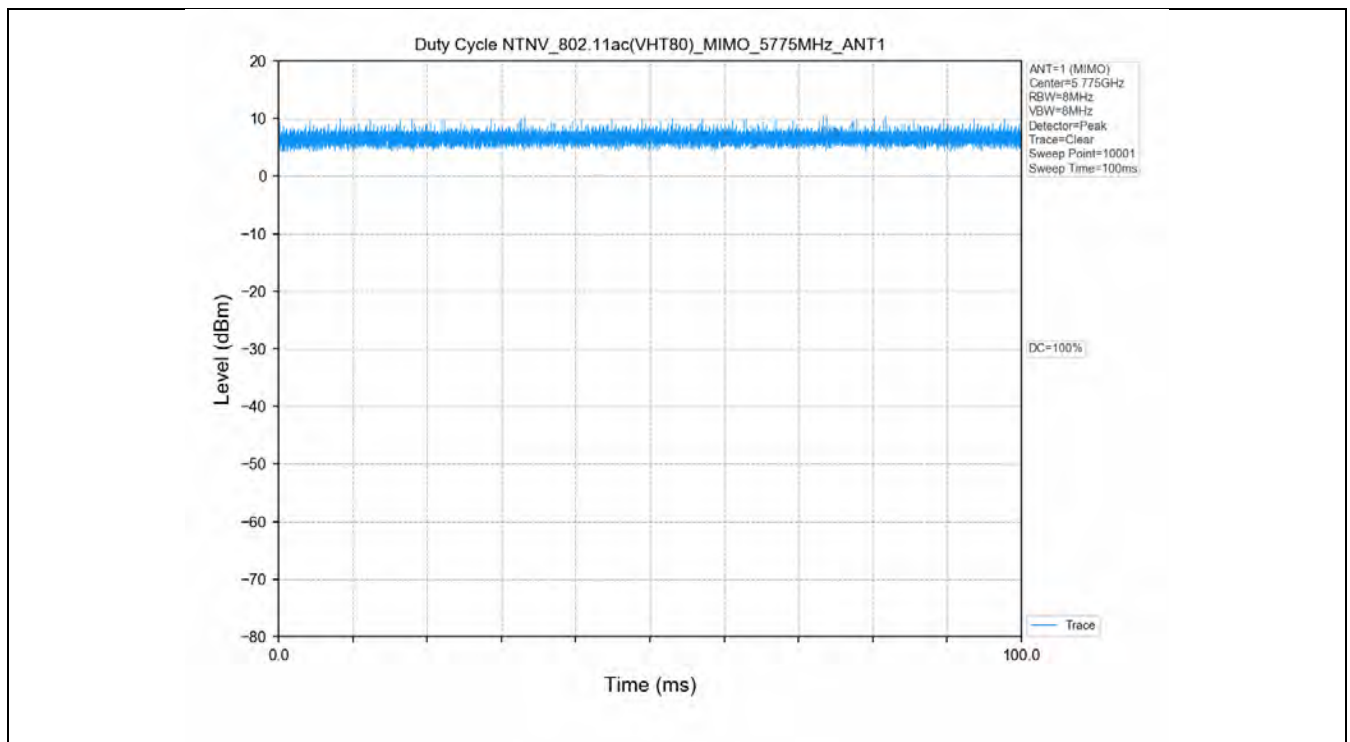
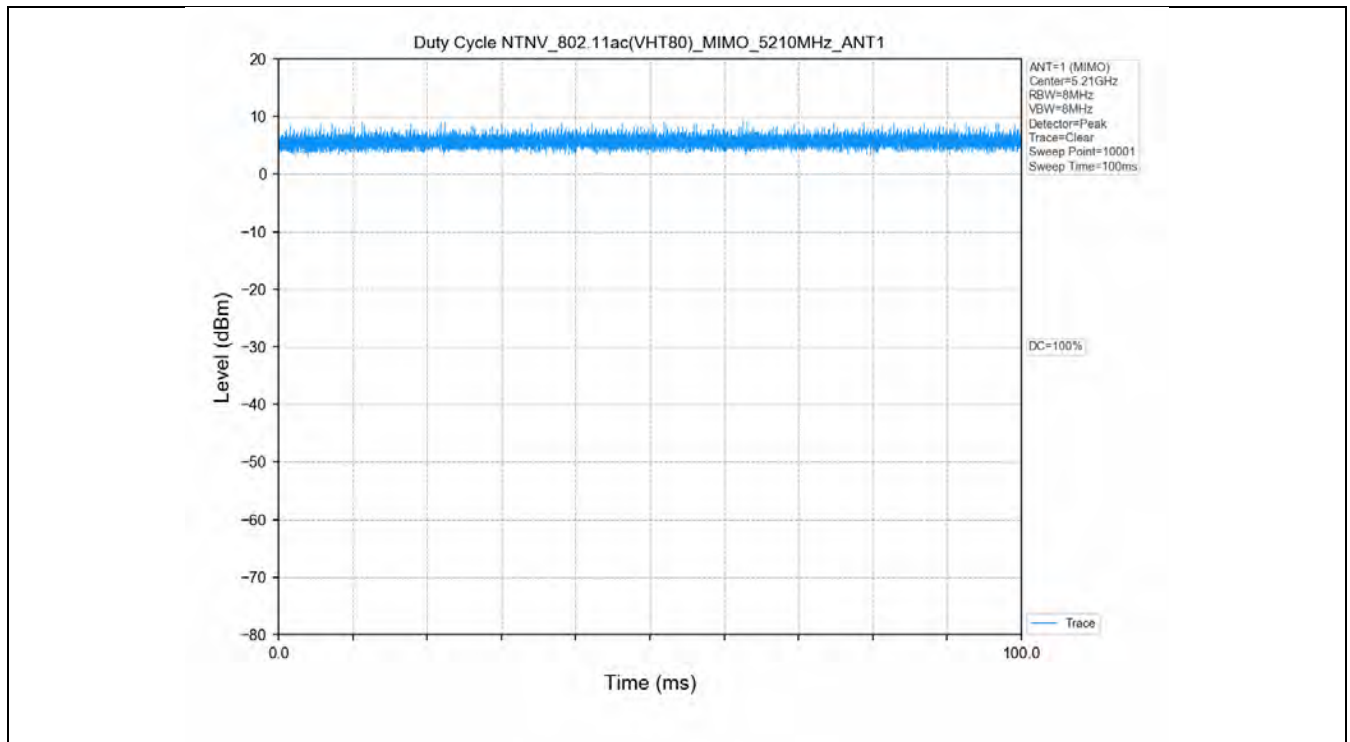








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## 2. Bandwidth

### 2.1 Test Result

| Test Mode       | Frequency (MHz) | TX Type | ANT No. | Emission Bandwidth |                     | Verdict |
|-----------------|-----------------|---------|---------|--------------------|---------------------|---------|
|                 |                 |         |         | Test Result (MHz)  | Limits (MHz)        |         |
| 802.11a         | 5180            | SISO    | 1       | 18.477             | Only for Report Use | PASS    |
|                 |                 |         | 2       | 18.553             | Only for Report Use | PASS    |
|                 | 5200            | SISO    | 1       | 18.453             | Only for Report Use | PASS    |
|                 |                 |         | 2       | 21.743             | Only for Report Use | PASS    |
|                 | 5240            | SISO    | 1       | 18.407             | Only for Report Use | PASS    |
|                 |                 |         | 2       | 19.938             | Only for Report Use | PASS    |
| 802.11n(HT20)   | 5180            | MIMO    | 1       | 19.447             | Only for Report Use | PASS    |
|                 |                 |         | 2       | 19.386             | Only for Report Use | PASS    |
|                 | 5200            | MIMO    | 1       | 19.466             | Only for Report Use | PASS    |
|                 |                 |         | 2       | 19.357             | Only for Report Use | PASS    |
|                 | 5240            | MIMO    | 1       | 19.400             | Only for Report Use | PASS    |
|                 |                 |         | 2       | 19.460             | Only for Report Use | PASS    |
| 802.11n(HT40)   | 5190            | MIMO    | 1       | 41.328             | Only for Report Use | PASS    |
|                 |                 |         | 2       | 40.952             | Only for Report Use | PASS    |
|                 | 5230            | MIMO    | 1       | 41.188             | Only for Report Use | PASS    |
|                 |                 |         | 2       | 40.988             | Only for Report Use | PASS    |
| 802.11ac(VHT20) | 5180            | MIMO    | 1       | 19.371             | Only for Report Use | PASS    |
|                 |                 |         | 2       | 19.384             | Only for Report Use | PASS    |
|                 | 5200            | MIMO    | 1       | 19.539             | Only for Report Use | PASS    |
|                 |                 |         | 2       | 19.320             | Only for Report Use | PASS    |
|                 | 5240            | MIMO    | 1       | 19.384             | Only for Report Use | PASS    |
|                 |                 |         | 2       | 19.390             | Only for Report Use | PASS    |
| 802.11ac(VHT40) | 5190            | MIMO    | 1       | 41.021             | Only for Report Use | PASS    |
|                 |                 |         | 2       | 41.007             | Only for Report Use | PASS    |
|                 | 5230            | MIMO    | 1       | 41.181             | Only for Report Use | PASS    |
|                 |                 |         | 2       | 41.184             | Only for Report Use | PASS    |
| 802.11ac(VHT80) | 5210            | MIMO    | 1       | 81.330             | Only for Report Use | PASS    |
|                 |                 |         | 2       | 81.252             | Only for Report Use | PASS    |

| Test Mode       | Frequency (MHz) | TX Type | ANT No. | Emission Bandwidth |              | Verdict |
|-----------------|-----------------|---------|---------|--------------------|--------------|---------|
|                 |                 |         |         | Test Result (MHz)  | Limits (MHz) |         |
| 802.11a         | 5745            | SISO    | 1       | 17.724             | ≥0.5         | PASS    |
|                 |                 |         | 2       | 17.730             | ≥0.5         | PASS    |
|                 | 5785            | SISO    | 1       | 17.743             | ≥0.5         | PASS    |
|                 |                 |         | 2       | 17.717             | ≥0.5         | PASS    |
|                 | 5825            | SISO    | 1       | 17.723             | ≥0.5         | PASS    |
|                 |                 |         | 2       | 17.750             | ≥0.5         | PASS    |
| 802.11n(HT20)   | 5745            | MIMO    | 1       | 17.712             | ≥0.5         | PASS    |
|                 |                 |         | 2       | 17.713             | ≥0.5         | PASS    |
|                 | 5785            | MIMO    | 1       | 17.728             | ≥0.5         | PASS    |
|                 |                 |         | 2       | 17.744             | ≥0.5         | PASS    |
|                 | 5825            | MIMO    | 1       | 17.727             | ≥0.5         | PASS    |
|                 |                 |         | 2       | 17.750             | ≥0.5         | PASS    |
| 802.11n(HT40)   | 5755            | MIMO    | 1       | 36.457             | ≥0.5         | PASS    |
|                 |                 |         | 2       | 36.518             | ≥0.5         | PASS    |
|                 | 5795            | MIMO    | 1       | 36.548             | ≥0.5         | PASS    |
|                 |                 |         | 2       | 36.549             | ≥0.5         | PASS    |
| 802.11ac(VHT20) | 5745            | MIMO    | 1       | 17.796             | ≥0.5         | PASS    |



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|                 |                 |      |      |        |        |      |      |
|-----------------|-----------------|------|------|--------|--------|------|------|
|                 |                 |      | 2    | 17.689 | ≥0.5   | PASS |      |
|                 | 5785            | MIMO | 1    | 17.733 | ≥0.5   | PASS |      |
|                 |                 |      | 2    | 17.710 | ≥0.5   | PASS |      |
|                 | 5825            | MIMO | 1    | 17.704 | ≥0.5   | PASS |      |
|                 |                 |      | 2    | 17.686 | ≥0.5   | PASS |      |
|                 | 802.11ac(VHT40) | 5755 | MIMO | 1      | 36.540 | ≥0.5 | PASS |
| 2               |                 |      |      | 36.516 | ≥0.5   | PASS |      |
| 5795            |                 | MIMO | 1    | 36.528 | ≥0.5   | PASS |      |
|                 |                 |      | 2    | 36.566 | ≥0.5   | PASS |      |
| 802.11ac(VHT80) |                 | 5775 | MIMO | 1      | 75.795 | ≥0.5 | PASS |
|                 |                 |      |      | 2      | 76.600 | ≥0.5 | PASS |

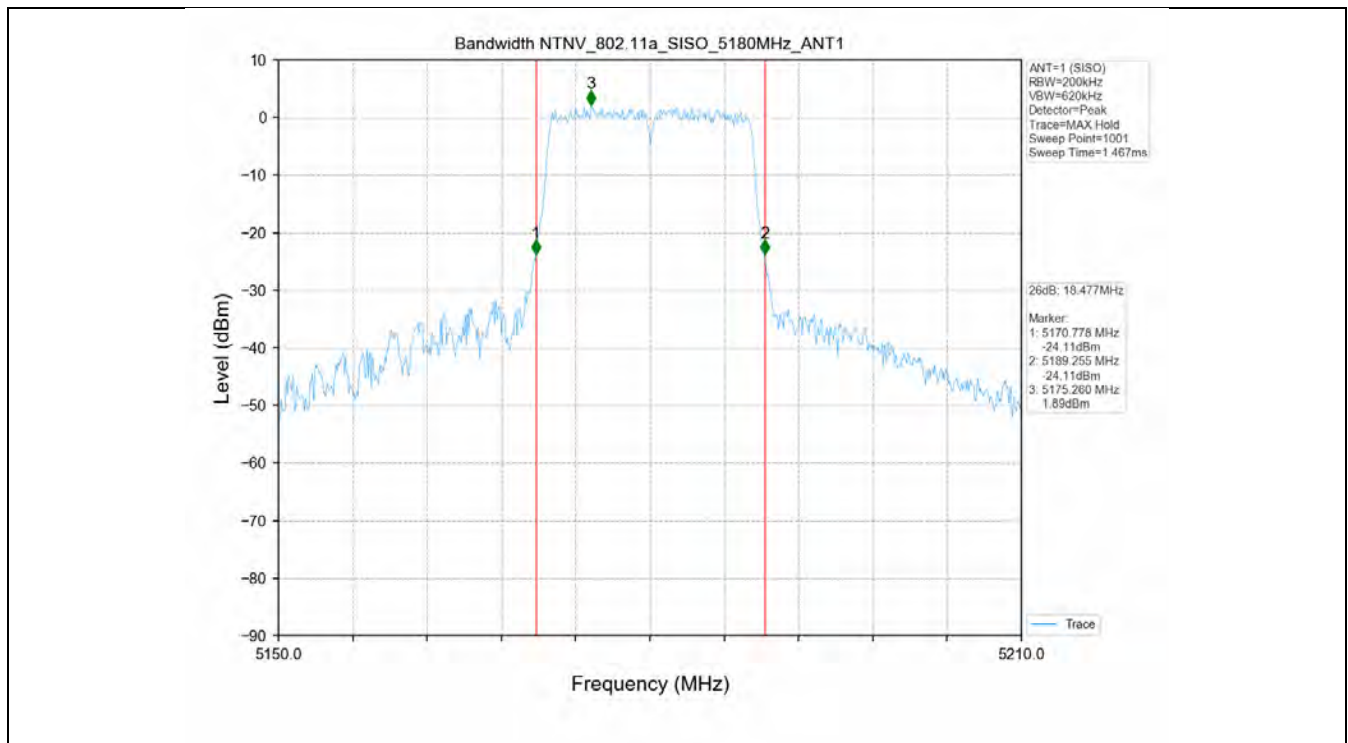
| Test Mode       | Frequency (MHz) | TX Type | ANT No. | 99% Occupied Bandwidth |                     |
|-----------------|-----------------|---------|---------|------------------------|---------------------|
|                 |                 |         |         | Test Result (MHz)      |                     |
| 802.11a         | 5180            | SISO    | 1       | 16.444                 | Only for Report Use |
|                 |                 |         | 2       | 16.448                 | Only for Report Use |
|                 | 5200            | SISO    | 1       | 16.455                 | Only for Report Use |
|                 |                 |         | 2       | 16.466                 | Only for Report Use |
|                 | 5240            | SISO    | 1       | 16.488                 | Only for Report Use |
|                 |                 |         | 2       | 16.481                 | Only for Report Use |
|                 | 5745            | SISO    | 1       | 27.561                 | Only for Report Use |
|                 |                 |         | 2       | 17.673                 | Only for Report Use |
|                 | 5785            | SISO    | 1       | 25.169                 | Only for Report Use |
|                 |                 |         | 2       | 17.708                 | Only for Report Use |
|                 | 5825            | SISO    | 1       | 21.002                 | Only for Report Use |
|                 |                 |         | 2       | 17.687                 | Only for Report Use |
| 802.11n(HT20)   | 5180            | MIMO    | 1       | 17.603                 | Only for Report Use |
|                 |                 |         | 2       | 17.601                 | Only for Report Use |
|                 | 5200            | MIMO    | 1       | 17.616                 | Only for Report Use |
|                 |                 |         | 2       | 17.601                 | Only for Report Use |
|                 | 5240            | MIMO    | 1       | 17.605                 | Only for Report Use |
|                 |                 |         | 2       | 17.616                 | Only for Report Use |
|                 | 5745            | MIMO    | 1       | 26.979                 | Only for Report Use |
|                 |                 |         | 2       | 17.732                 | Only for Report Use |
|                 | 5785            | MIMO    | 1       | 24.332                 | Only for Report Use |
|                 |                 |         | 2       | 17.689                 | Only for Report Use |
|                 | 5825            | MIMO    | 1       | 20.113                 | Only for Report Use |
|                 |                 |         | 2       | 17.701                 | Only for Report Use |
| 802.11n(HT40)   | 5190            | MIMO    | 1       | 36.390                 | Only for Report Use |
|                 |                 |         | 2       | 36.328                 | Only for Report Use |
|                 | 5230            | MIMO    | 1       | 36.405                 | Only for Report Use |
|                 |                 |         | 2       | 36.306                 | Only for Report Use |
|                 | 5755            | MIMO    | 1       | 61.415                 | Only for Report Use |
|                 |                 |         | 2       | 36.634                 | Only for Report Use |
|                 | 5795            | MIMO    | 1       | 47.832                 | Only for Report Use |
|                 |                 |         | 2       | 36.602                 | Only for Report Use |
| 802.11ac(VHT20) | 5180            | MIMO    | 1       | 17.602                 | Only for Report Use |
|                 |                 |         | 2       | 17.601                 | Only for Report Use |
|                 | 5200            | MIMO    | 1       | 17.597                 | Only for Report Use |
|                 |                 |         | 2       | 17.606                 | Only for Report Use |
|                 | 5240            | MIMO    | 1       | 17.620                 | Only for Report Use |
|                 |                 |         | 2       | 17.613                 | Only for Report Use |
|                 | 5745            | MIMO    | 1       | 26.826                 | Only for Report Use |
|                 |                 |         | 2       | 17.706                 | Only for Report Use |

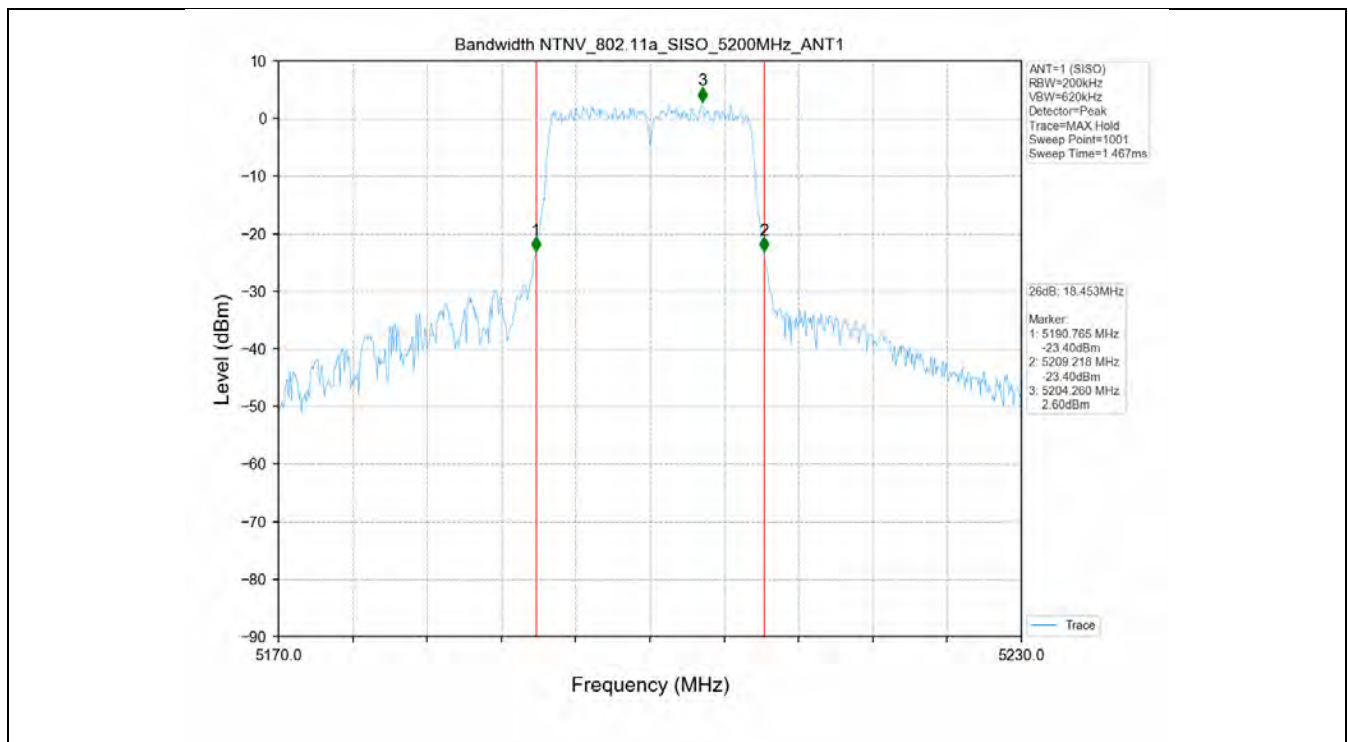
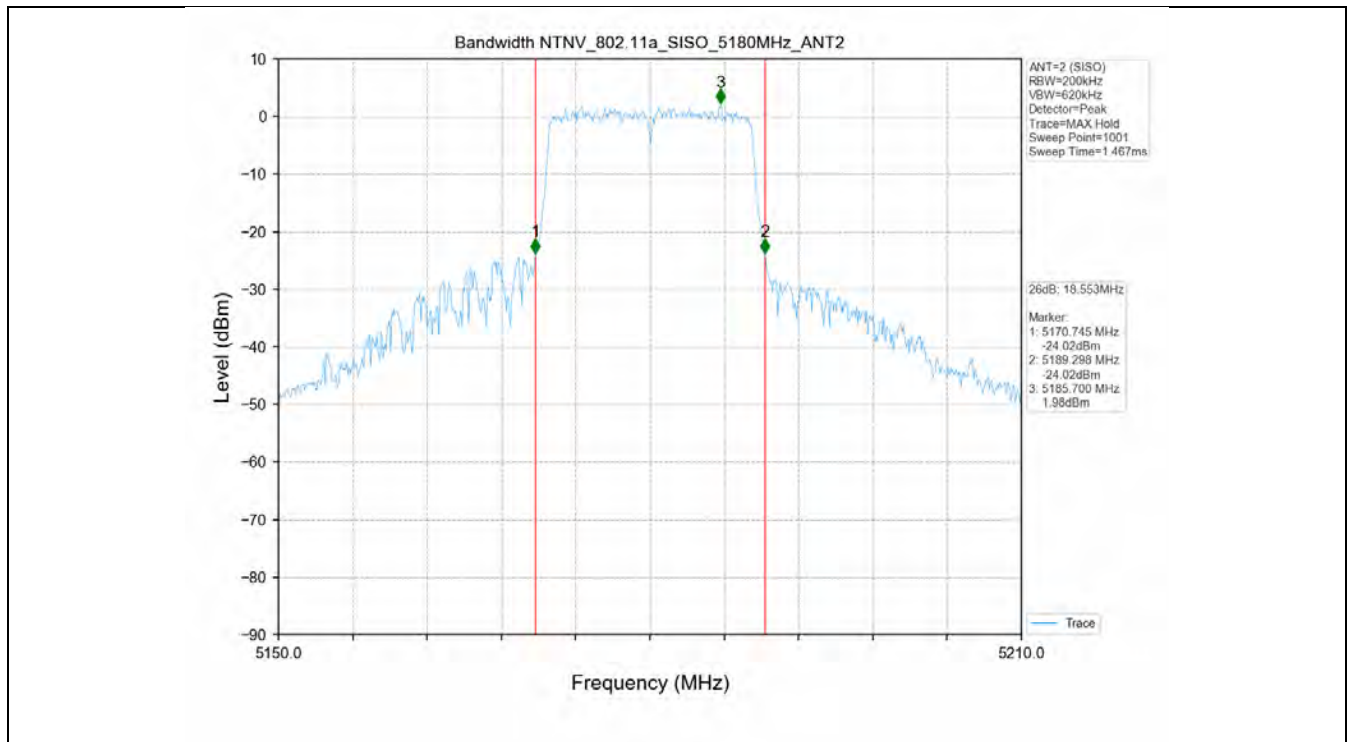


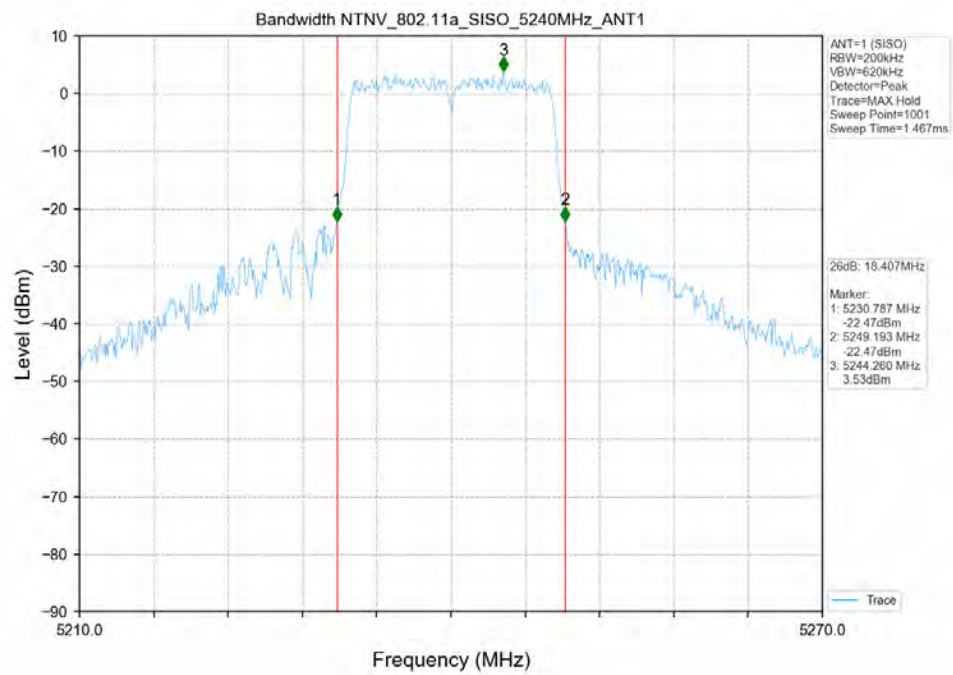
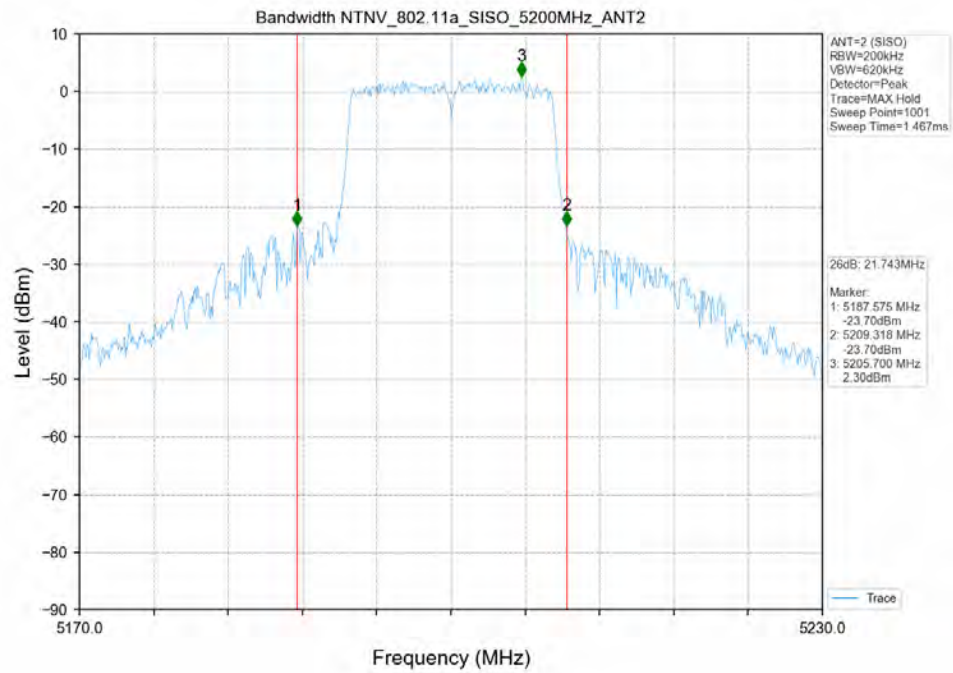
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|                 |      |      |   |         |                     |
|-----------------|------|------|---|---------|---------------------|
|                 | 5785 | MIMO | 1 | 27.197  | Only for Report Use |
|                 |      |      | 2 | 17.696  | Only for Report Use |
|                 | 5825 | MIMO | 1 | 21.285  | Only for Report Use |
|                 |      |      | 2 | 17.682  | Only for Report Use |
| 802.11ac(VHT40) | 5190 | MIMO | 1 | 36.392  | Only for Report Use |
|                 |      |      | 2 | 36.453  | Only for Report Use |
|                 | 5230 | MIMO | 1 | 36.446  | Only for Report Use |
|                 |      |      | 2 | 36.385  | Only for Report Use |
|                 | 5755 | MIMO | 1 | 59.134  | Only for Report Use |
|                 |      |      | 2 | 36.631  | Only for Report Use |
|                 | 5795 | MIMO | 1 | 48.794  | Only for Report Use |
|                 |      |      | 2 | 36.632  | Only for Report Use |
| 802.11ac(VHT80) | 5210 | MIMO | 1 | 75.417  | Only for Report Use |
|                 |      |      | 2 | 75.219  | Only for Report Use |
|                 | 5775 | MIMO | 1 | 119.416 | Only for Report Use |
|                 |      |      | 2 | 75.686  | Only for Report Use |

### 2.2 Test Graph - Emission Bandwidth

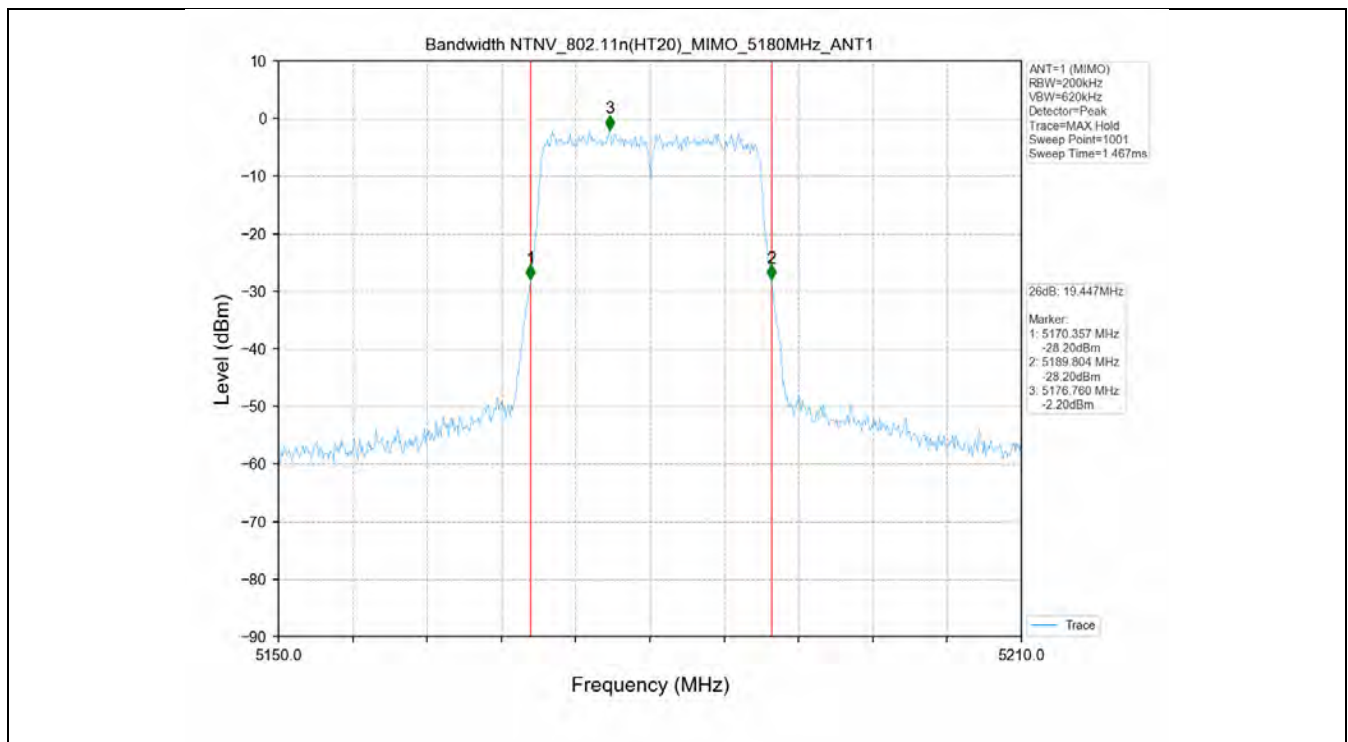
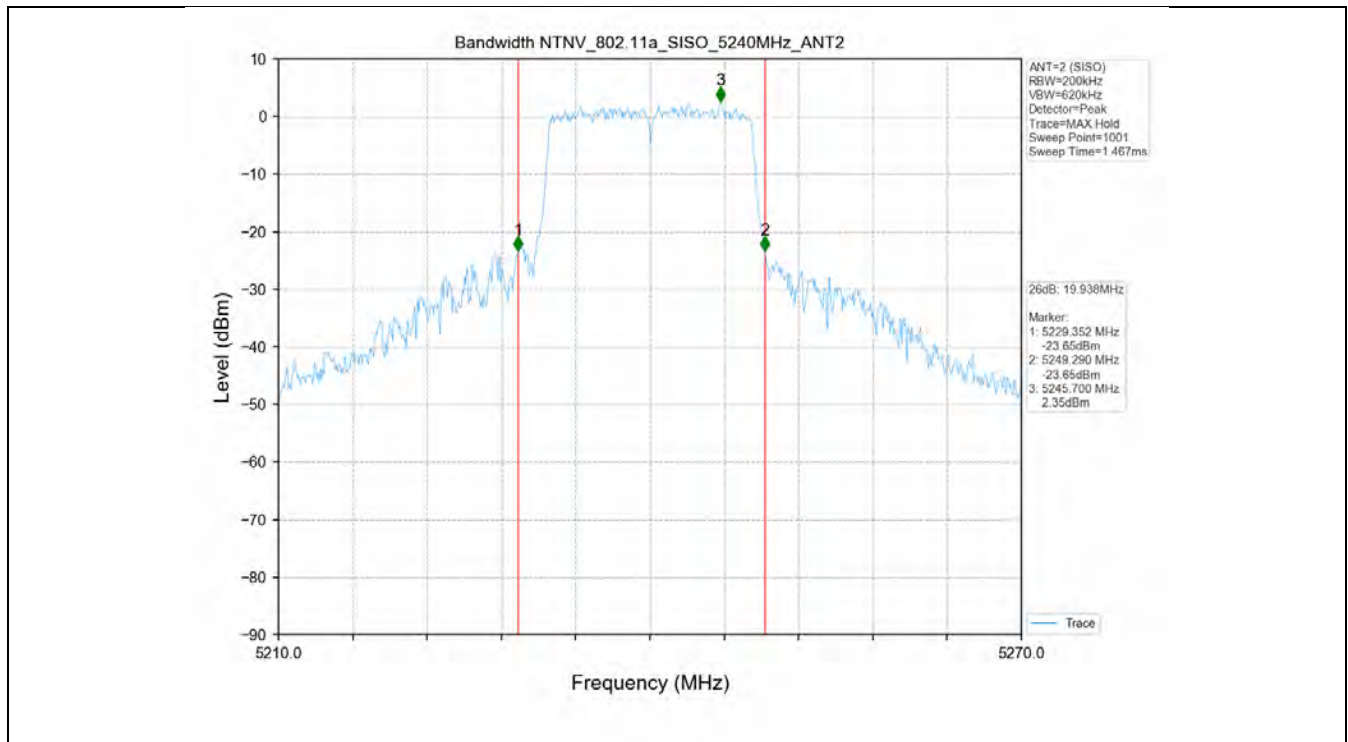






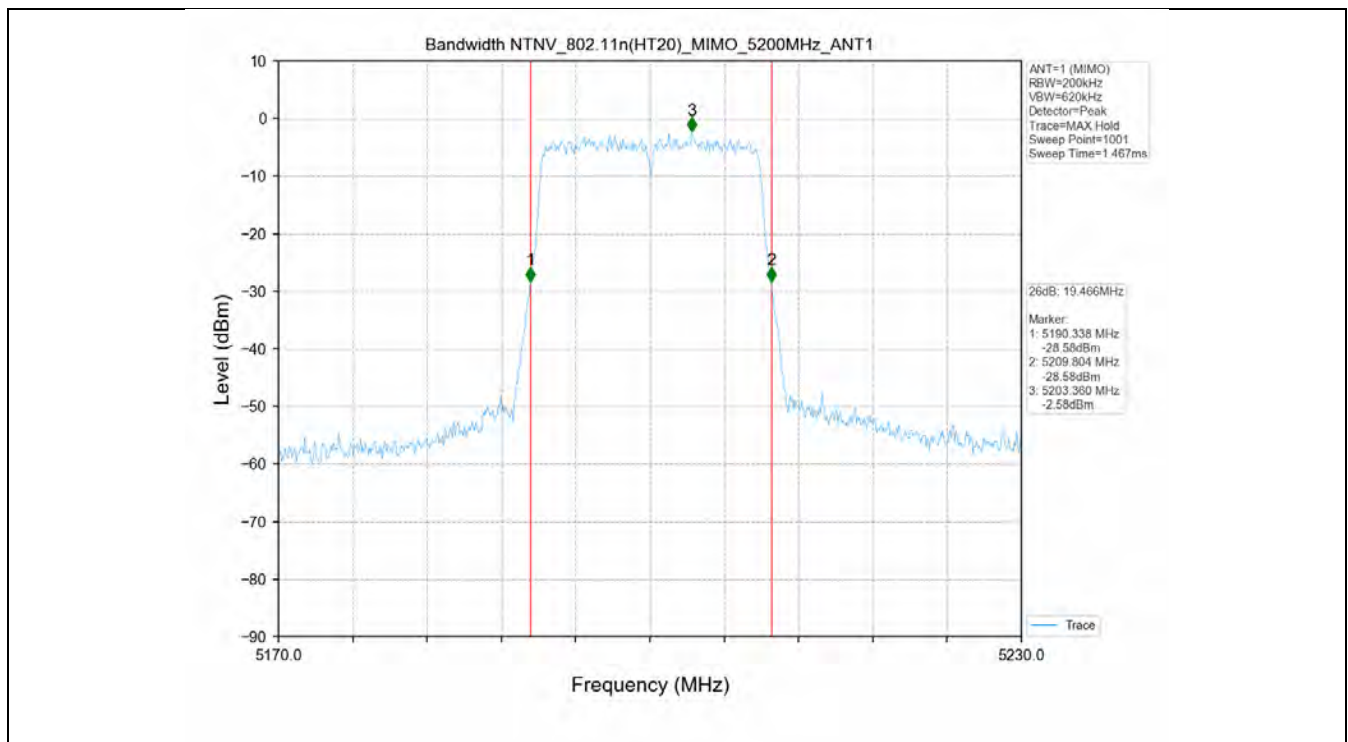
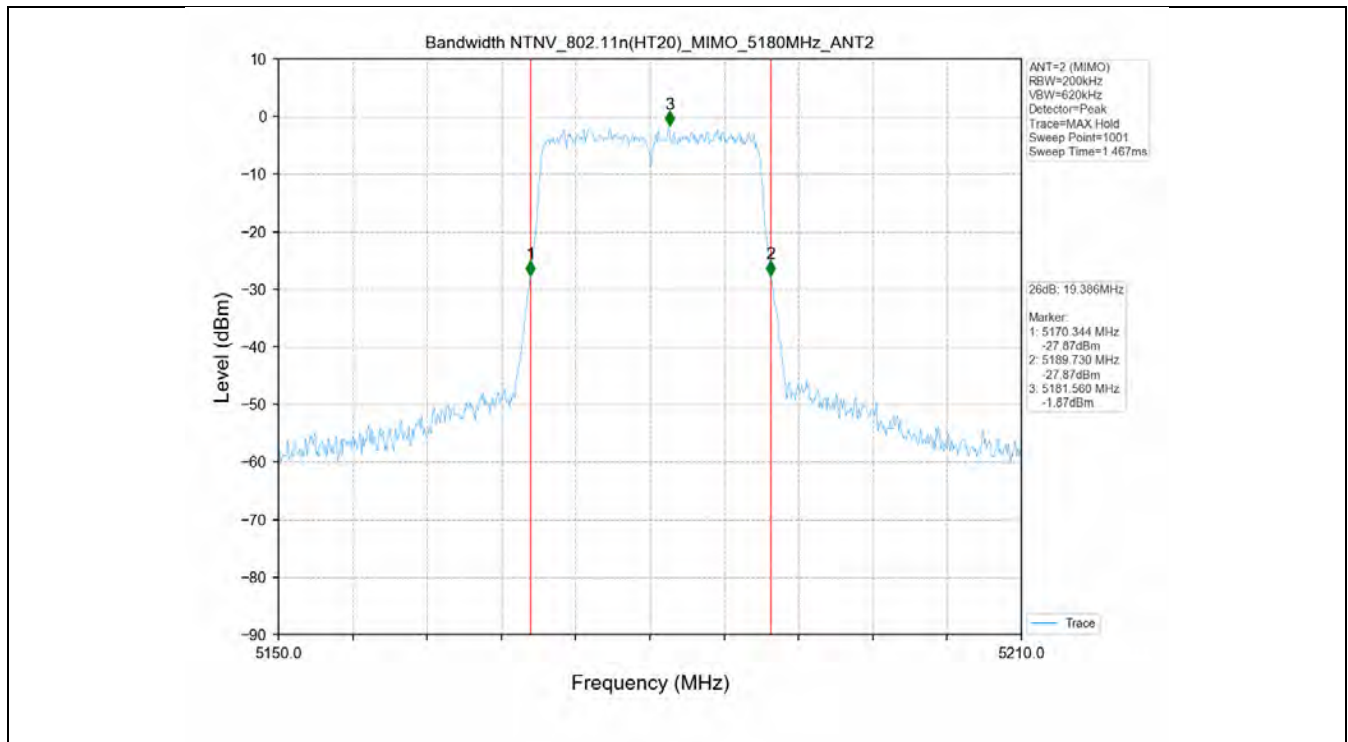


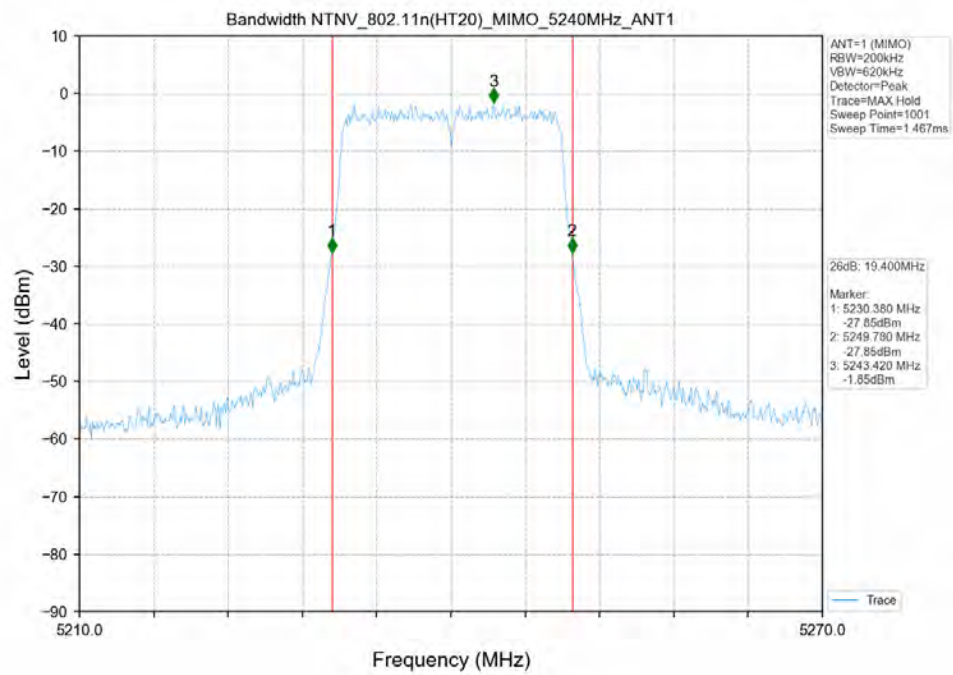
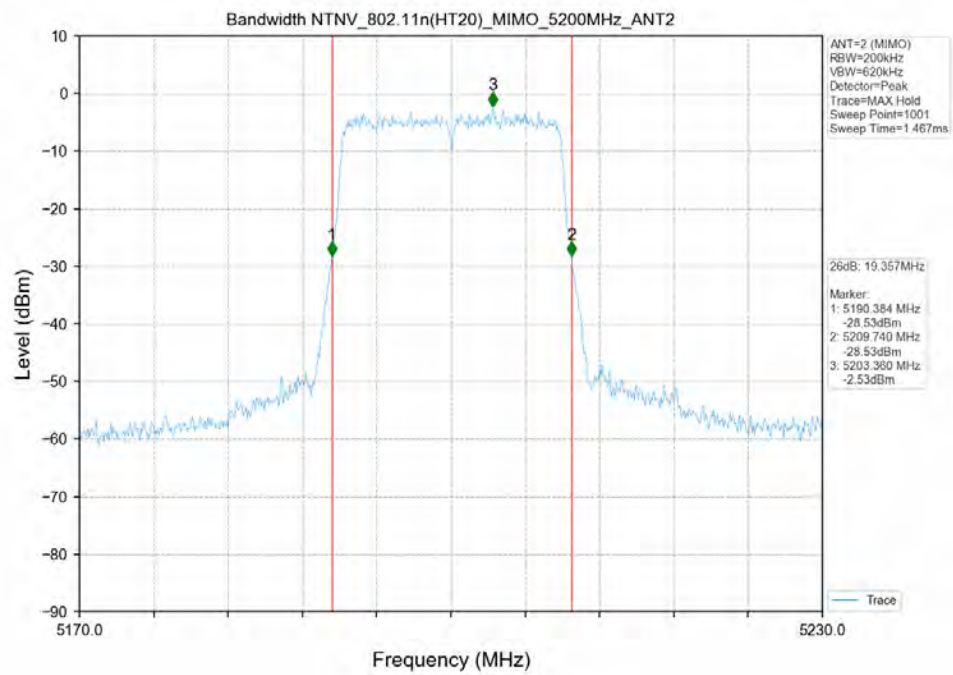
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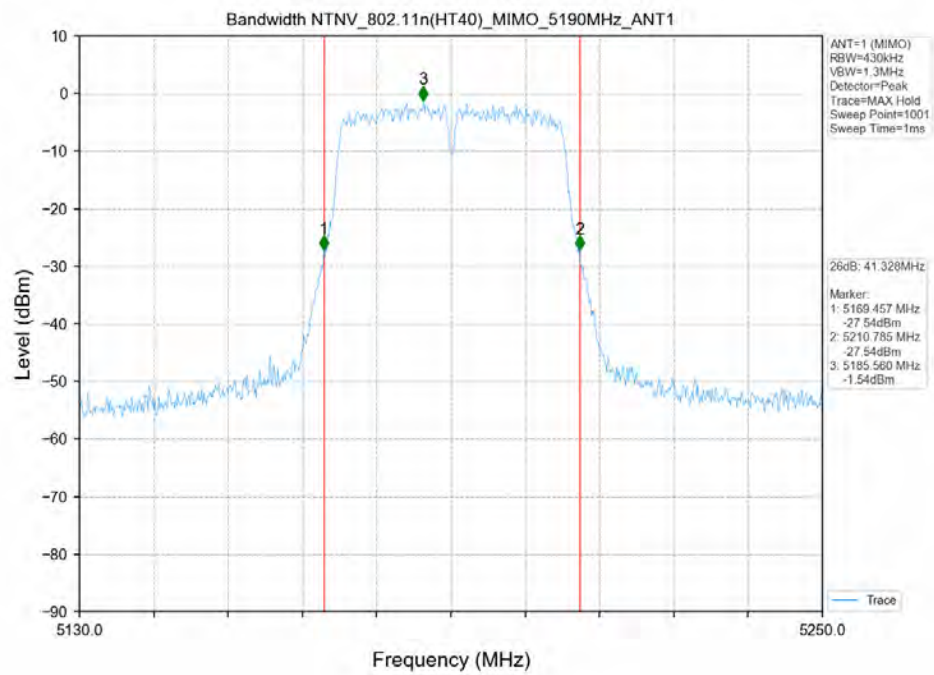
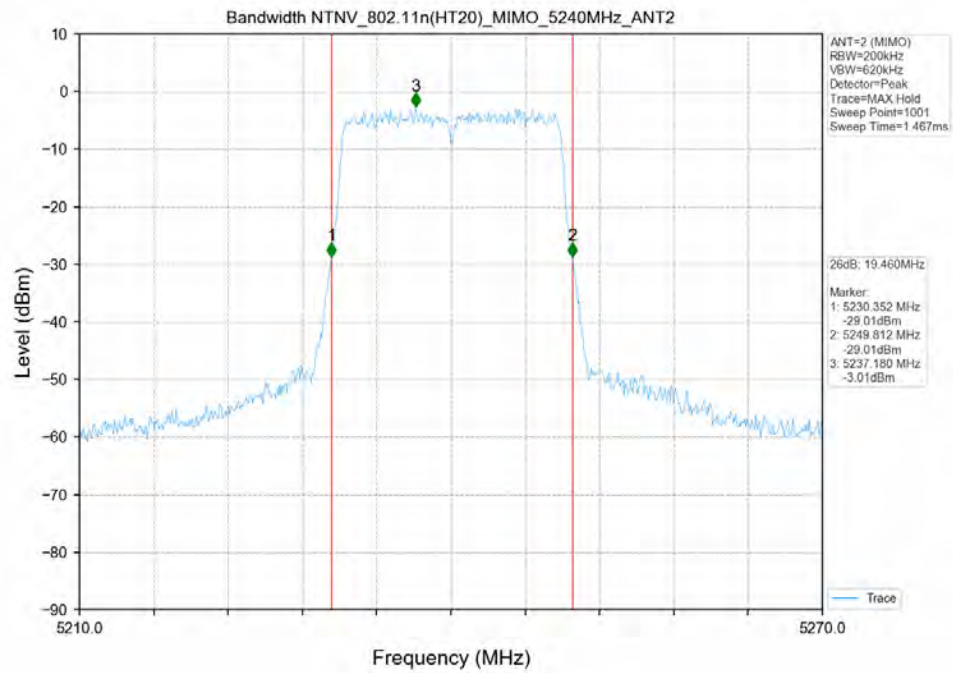




# SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

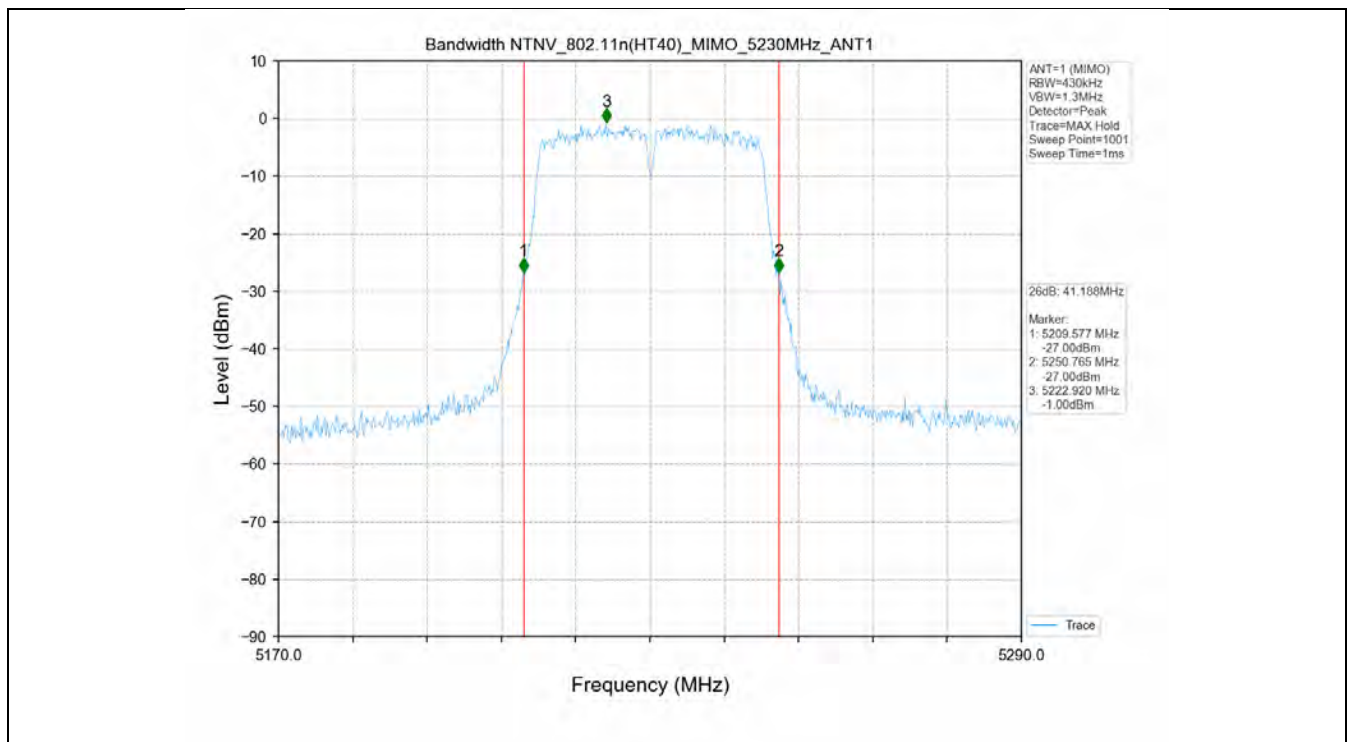
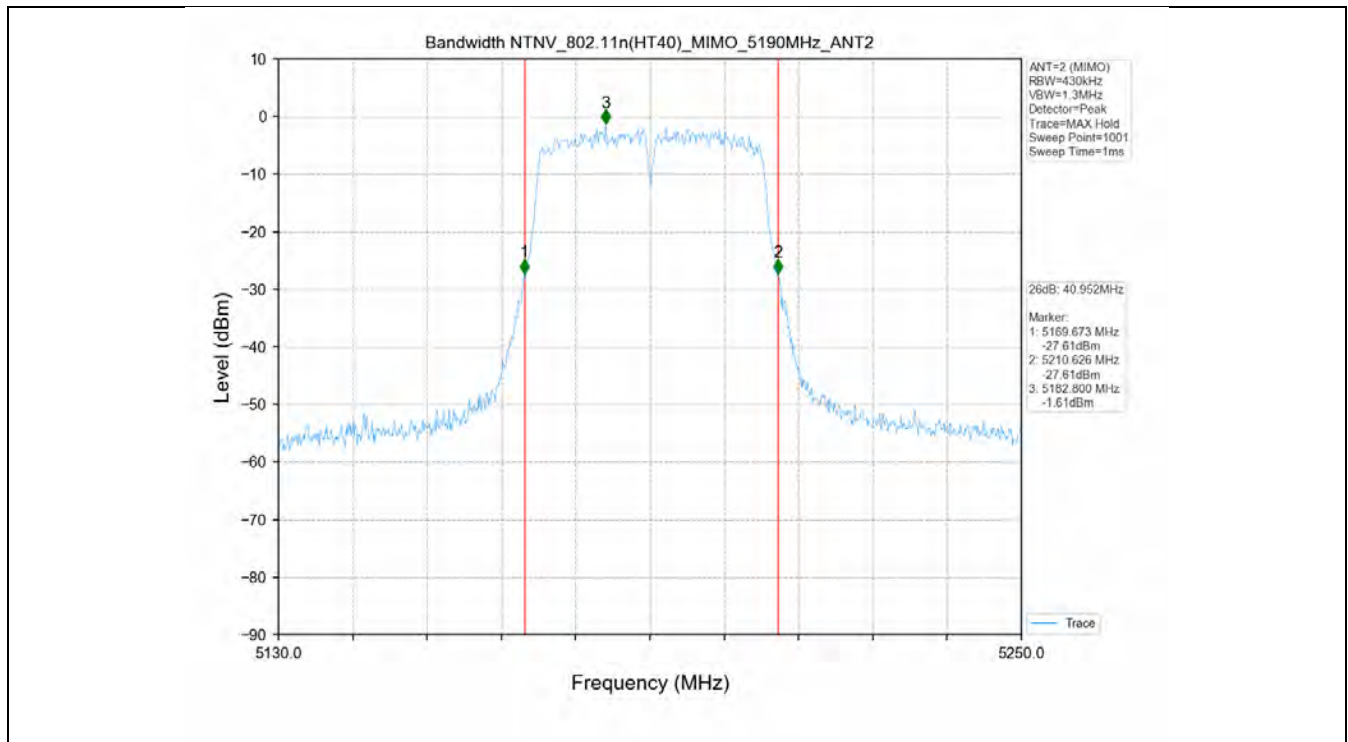


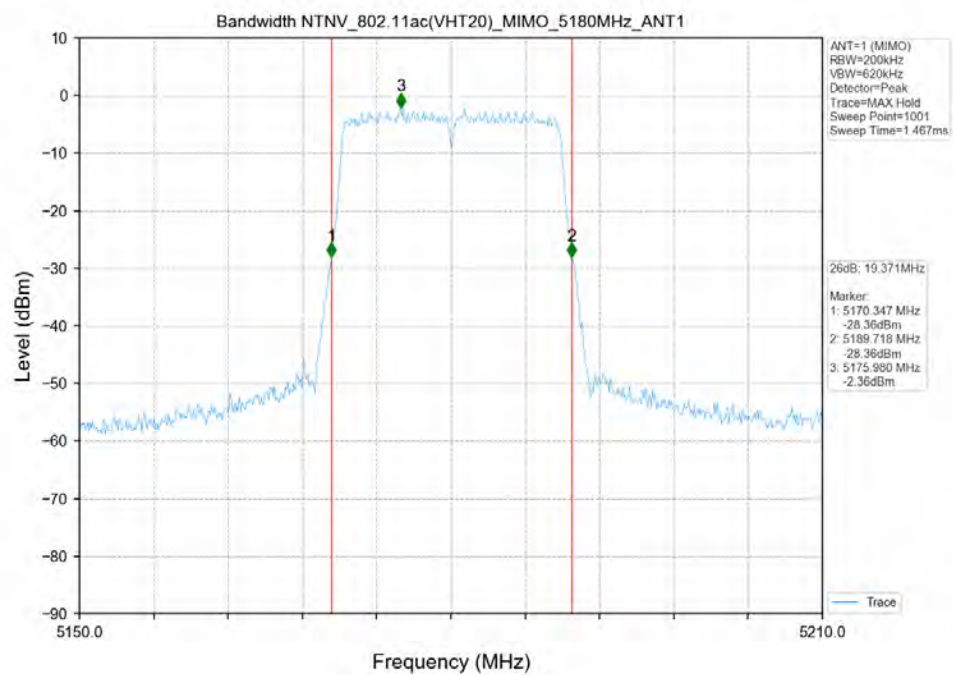
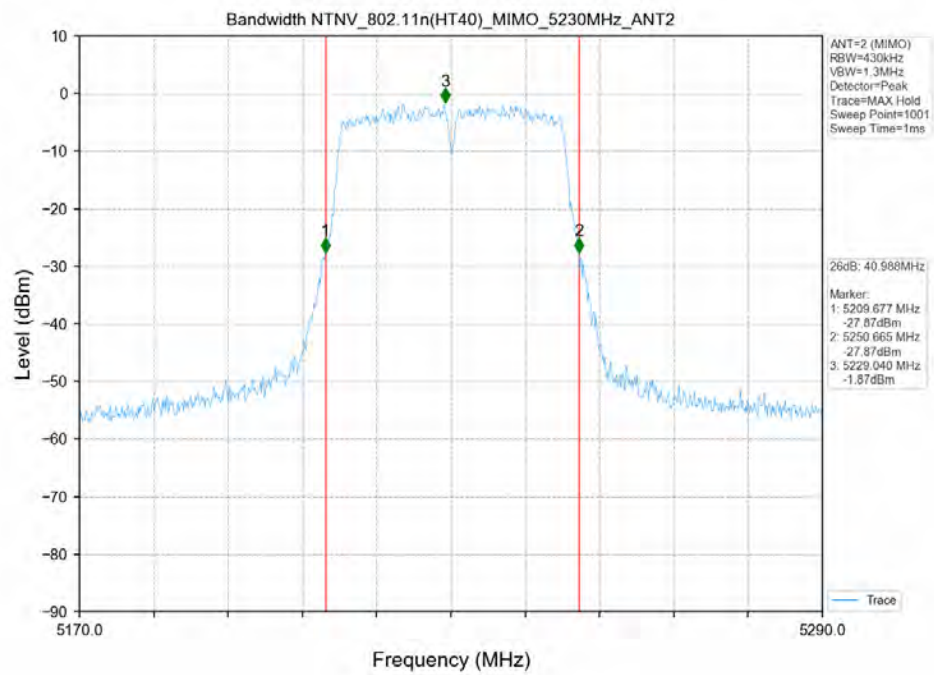


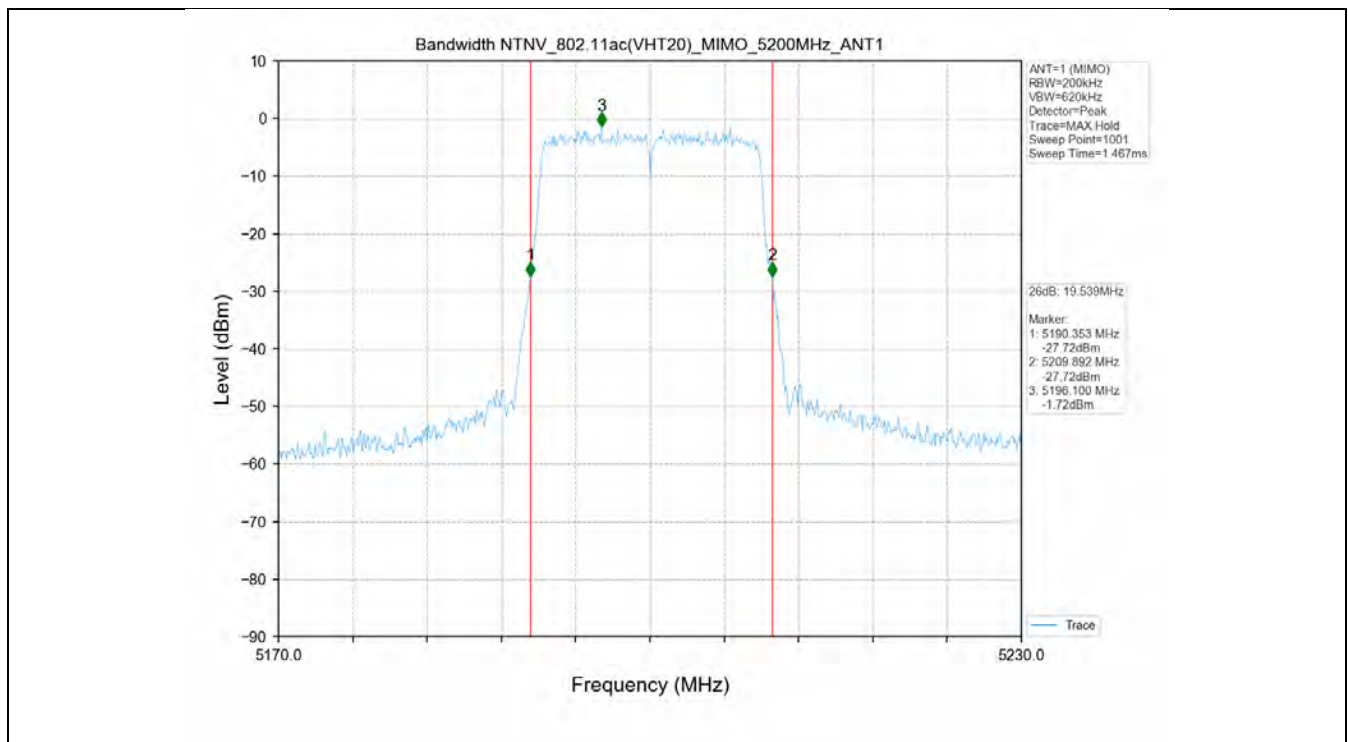
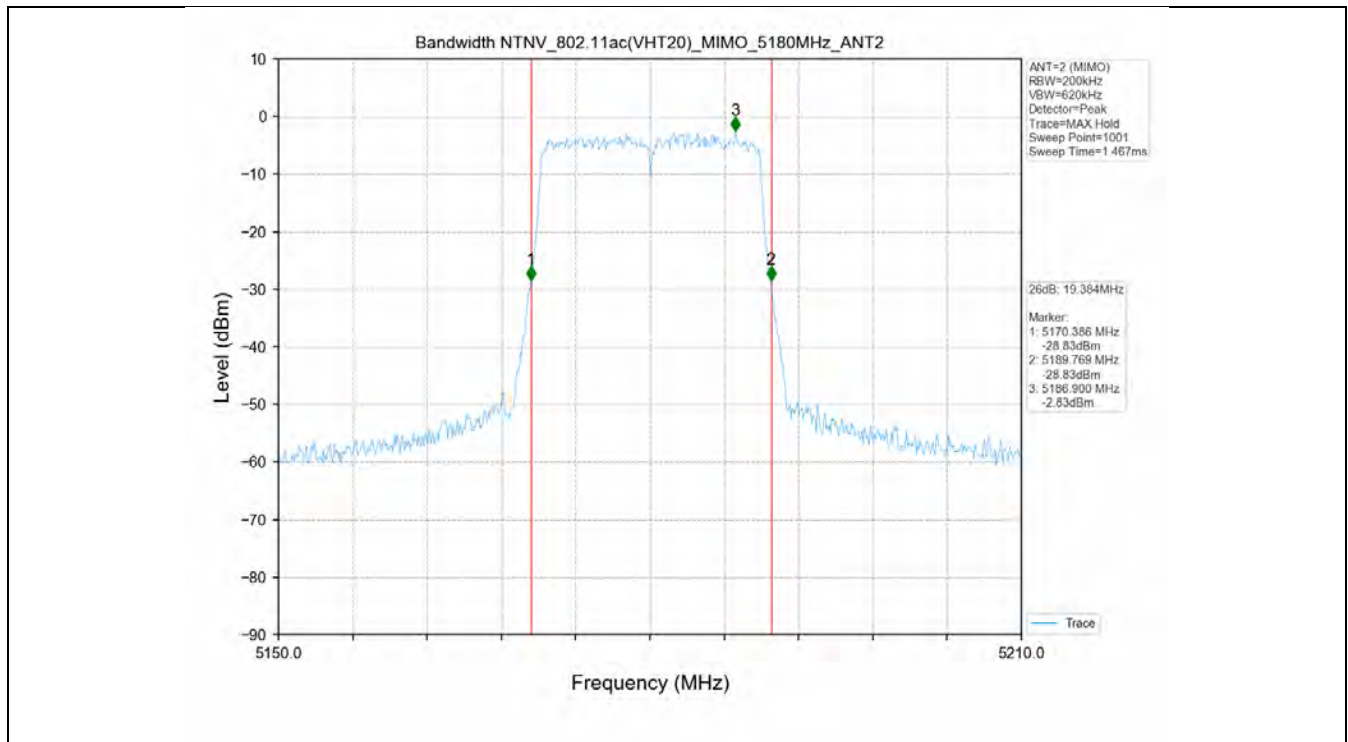




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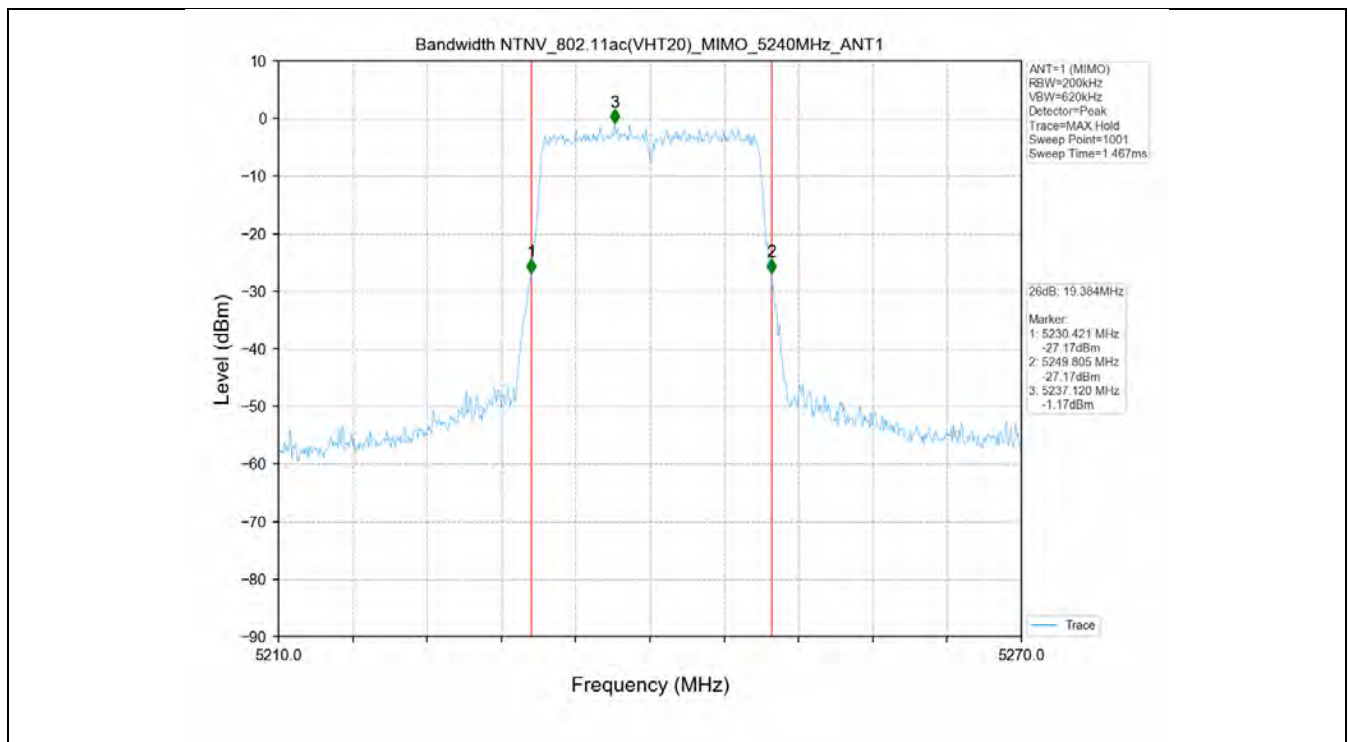
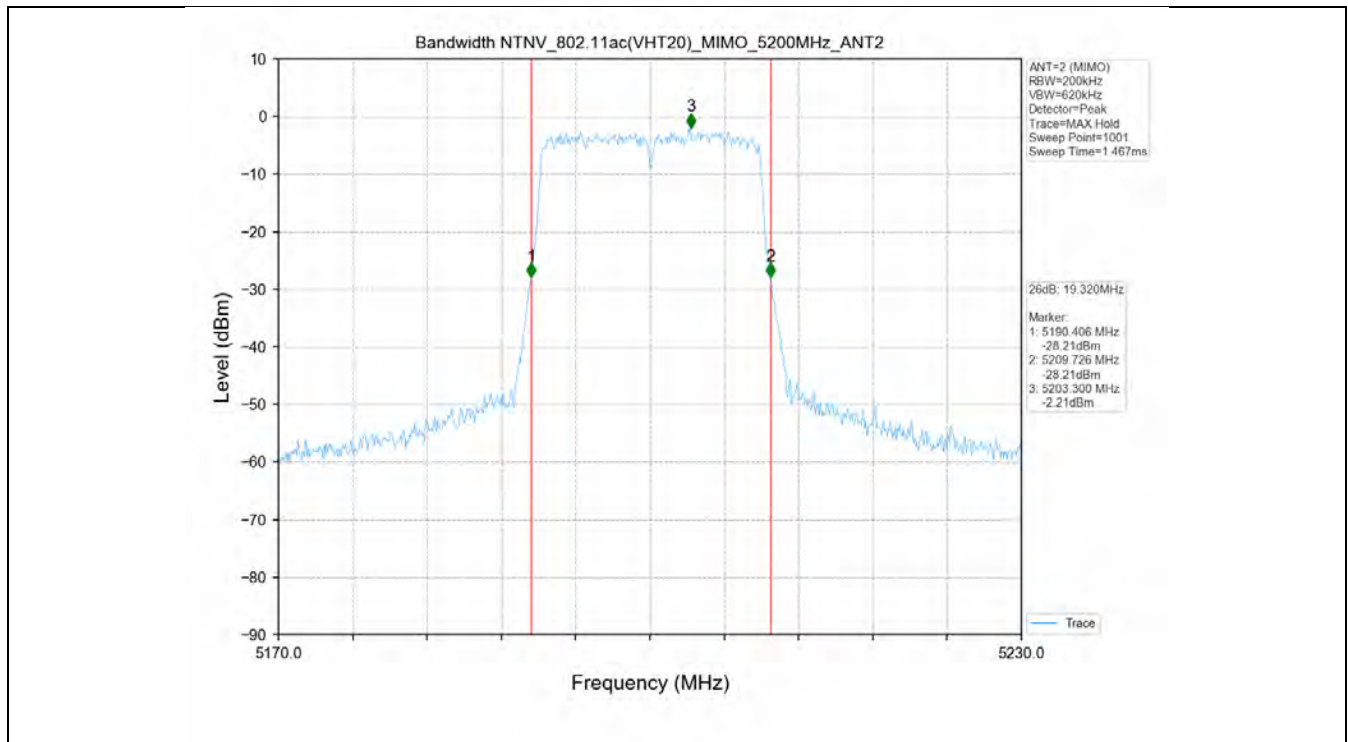






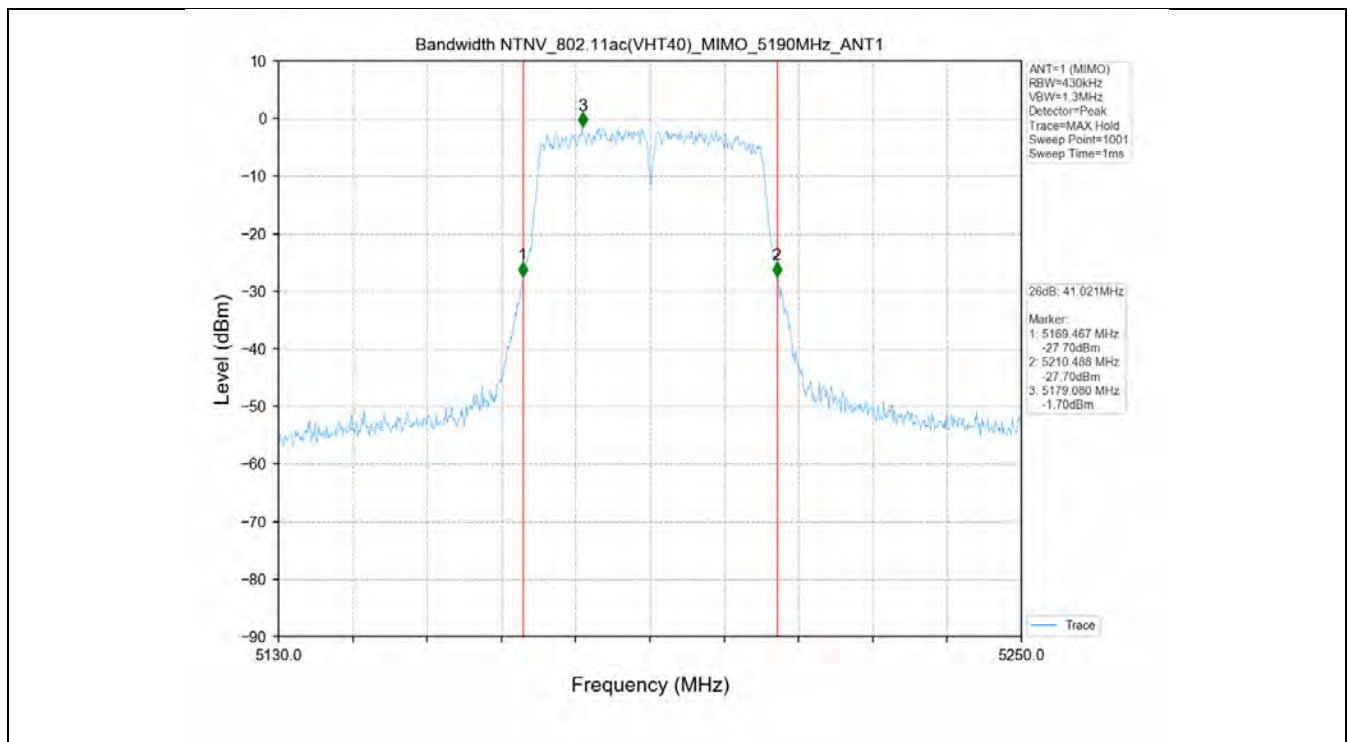
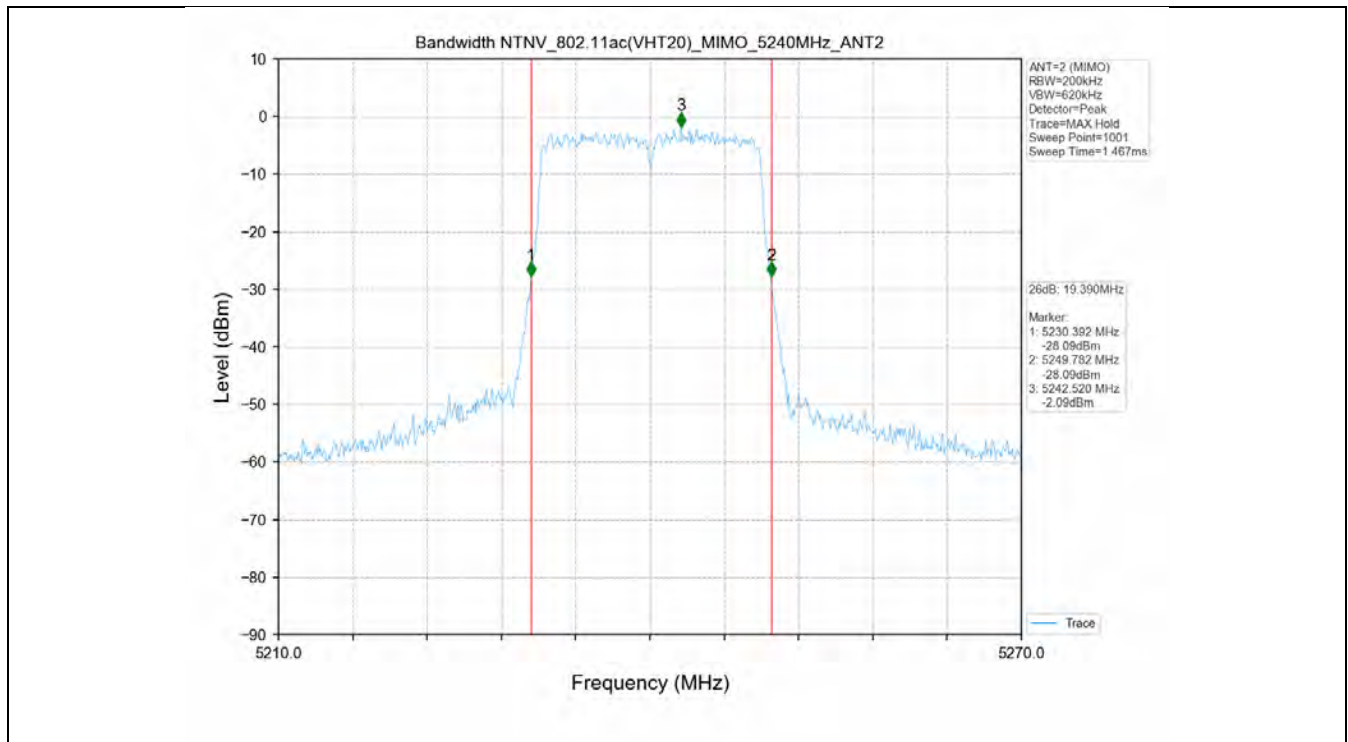


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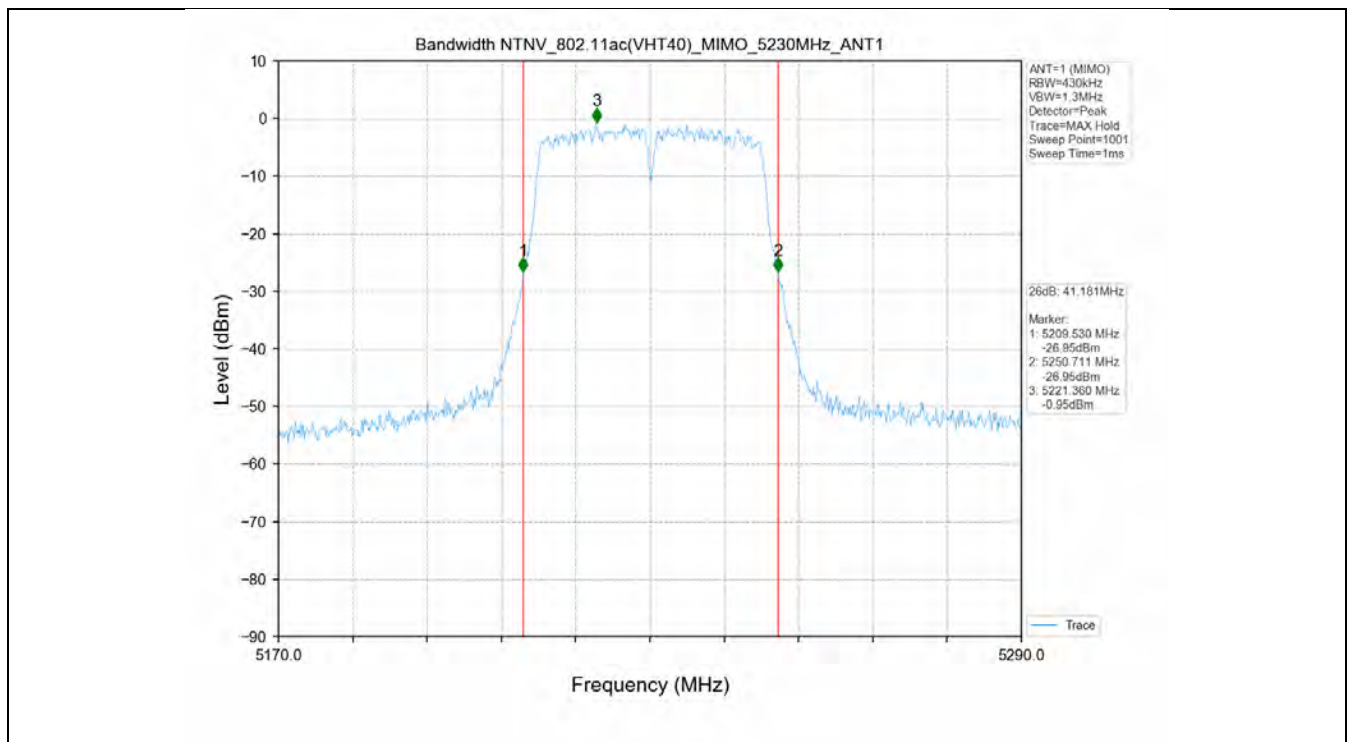
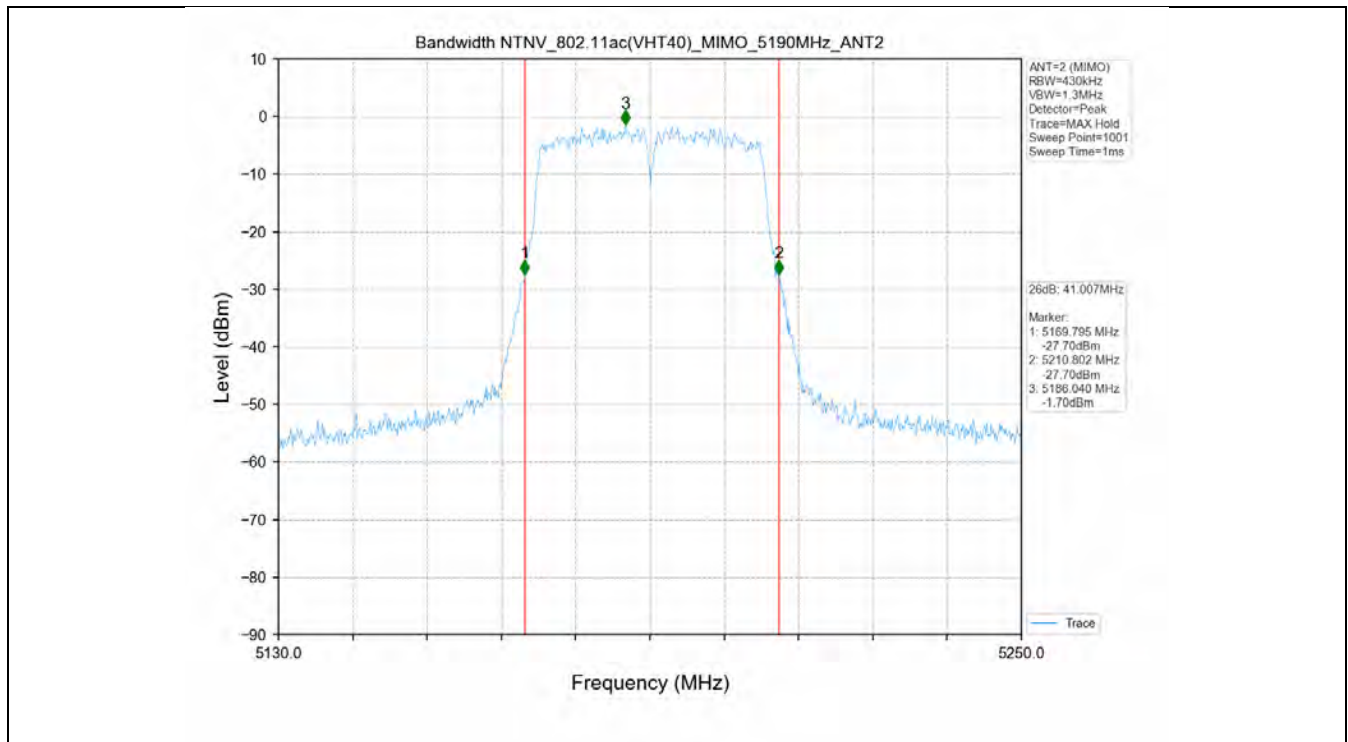


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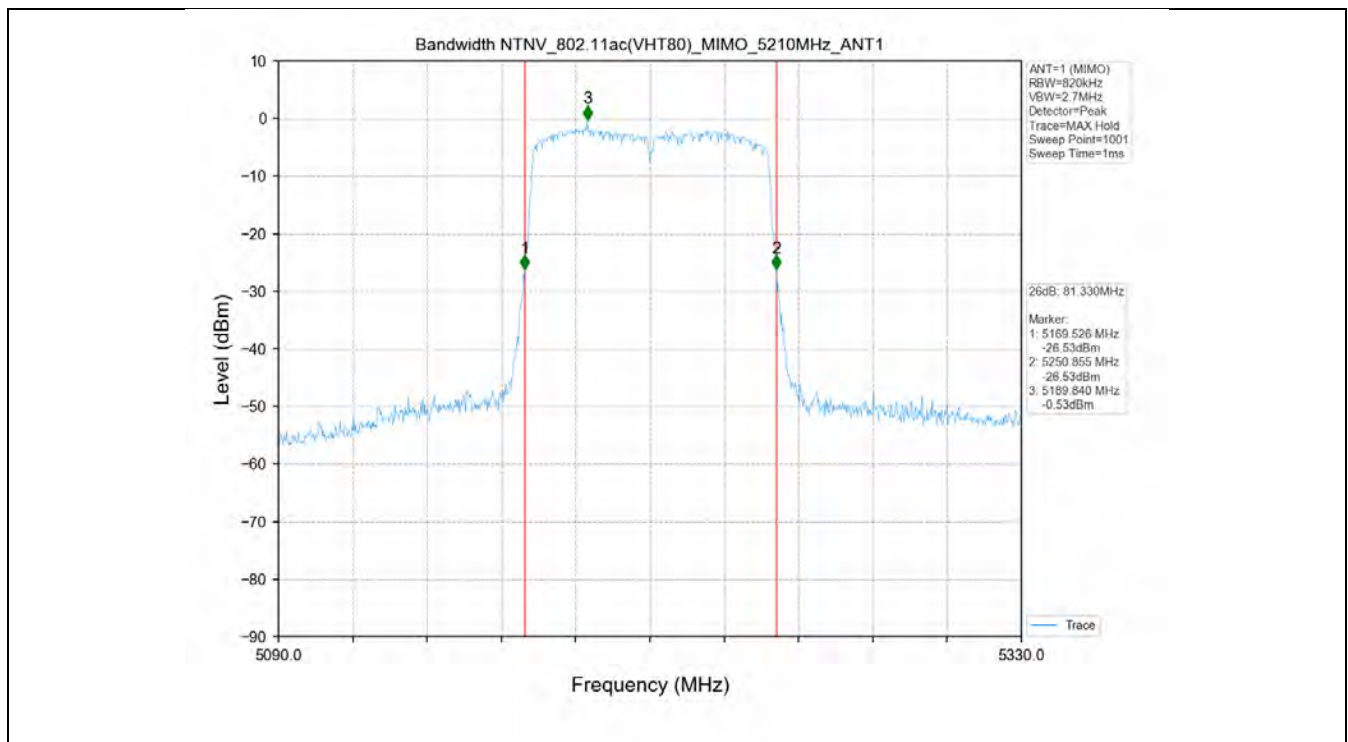
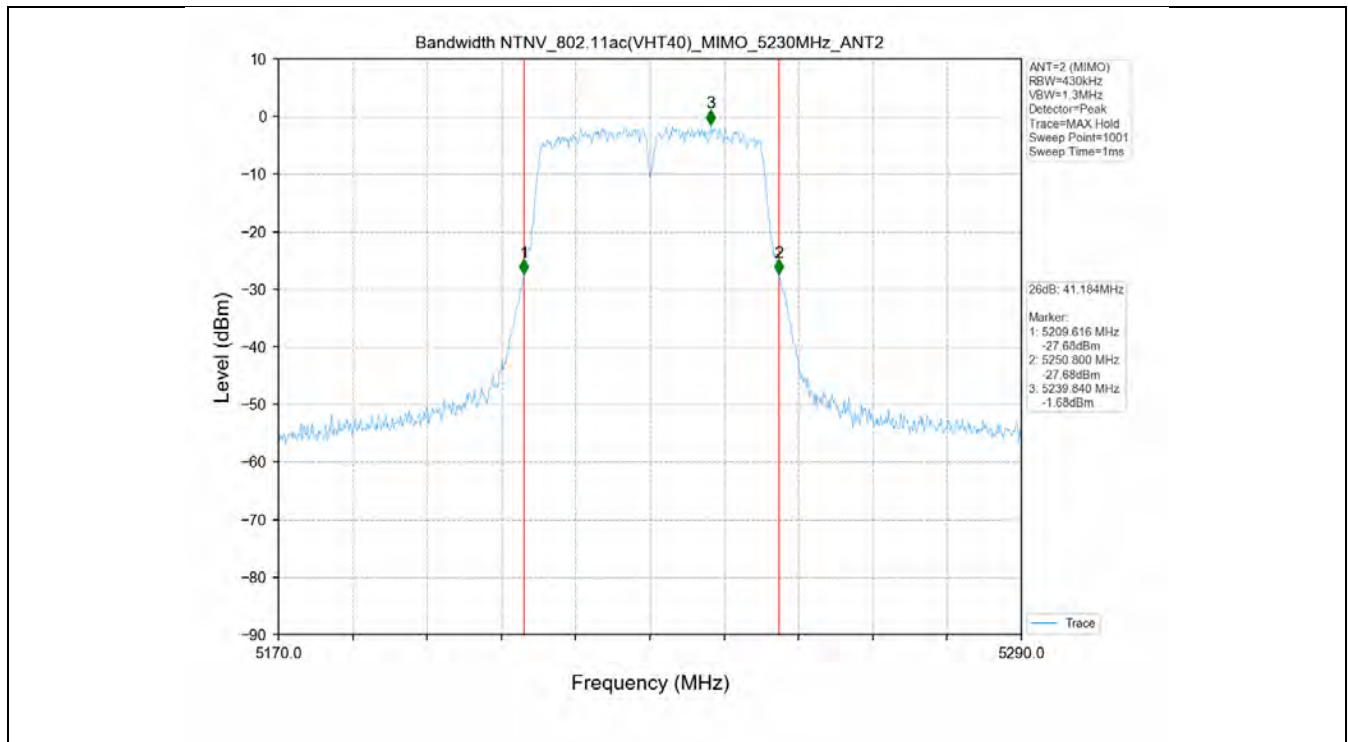


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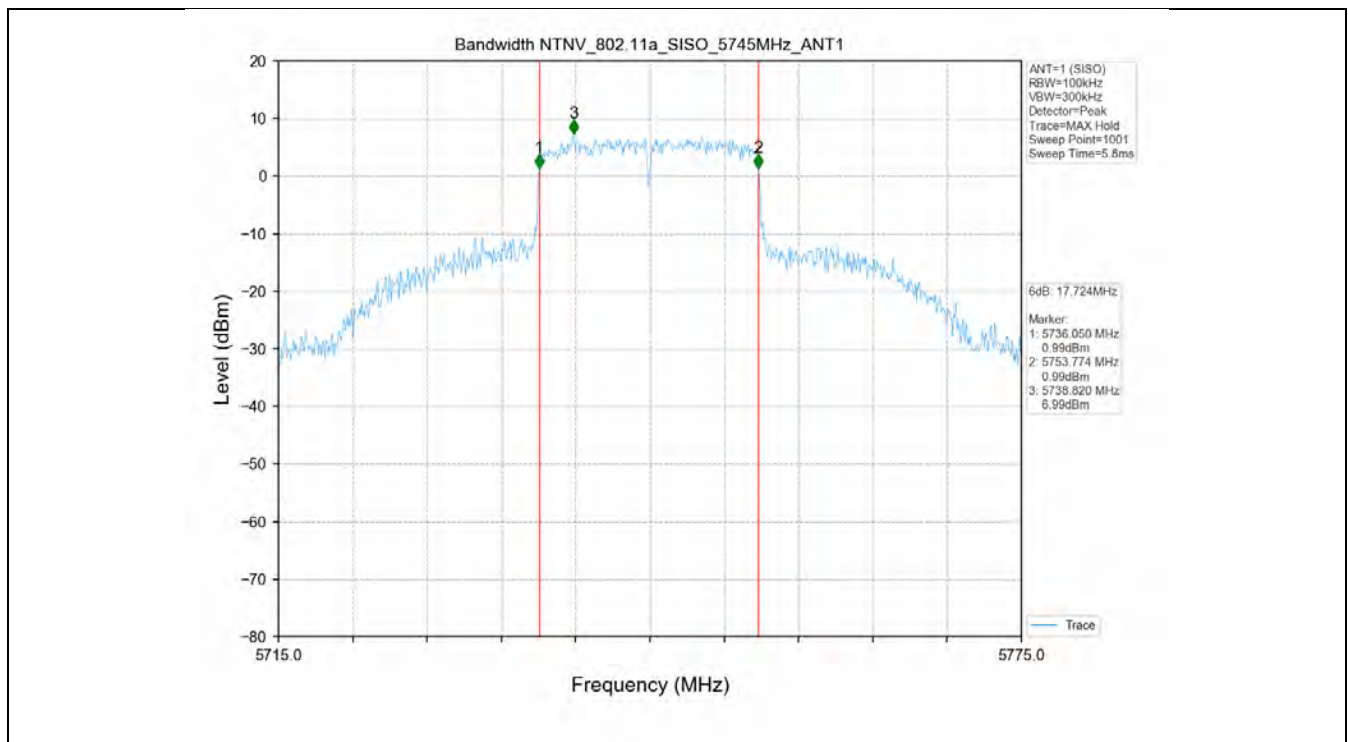
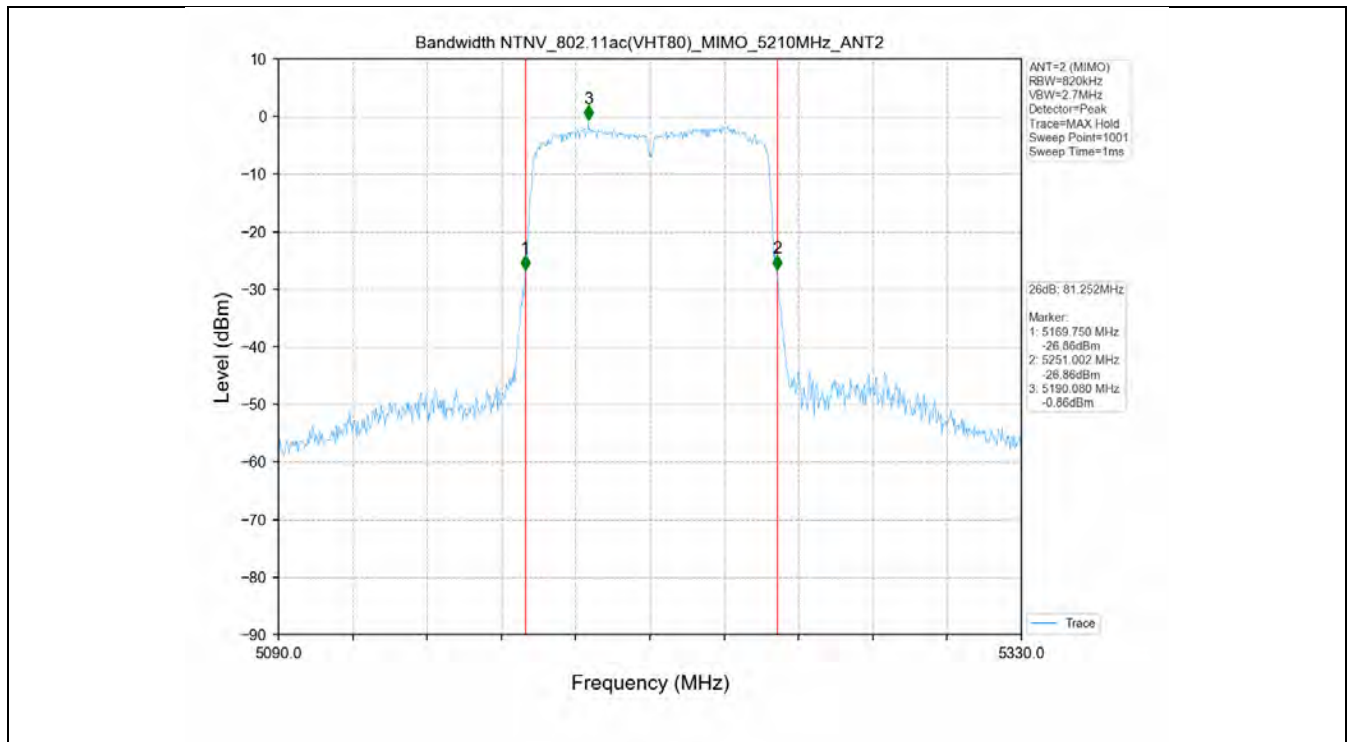


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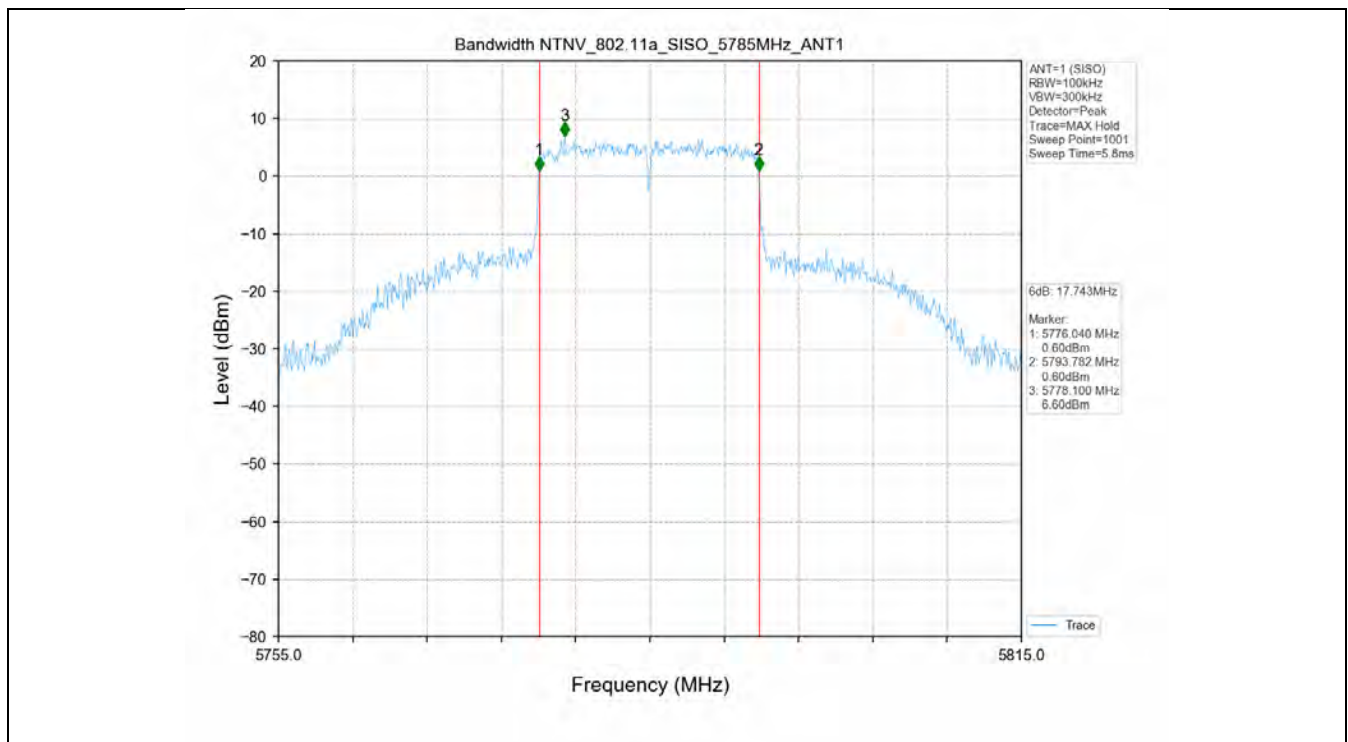
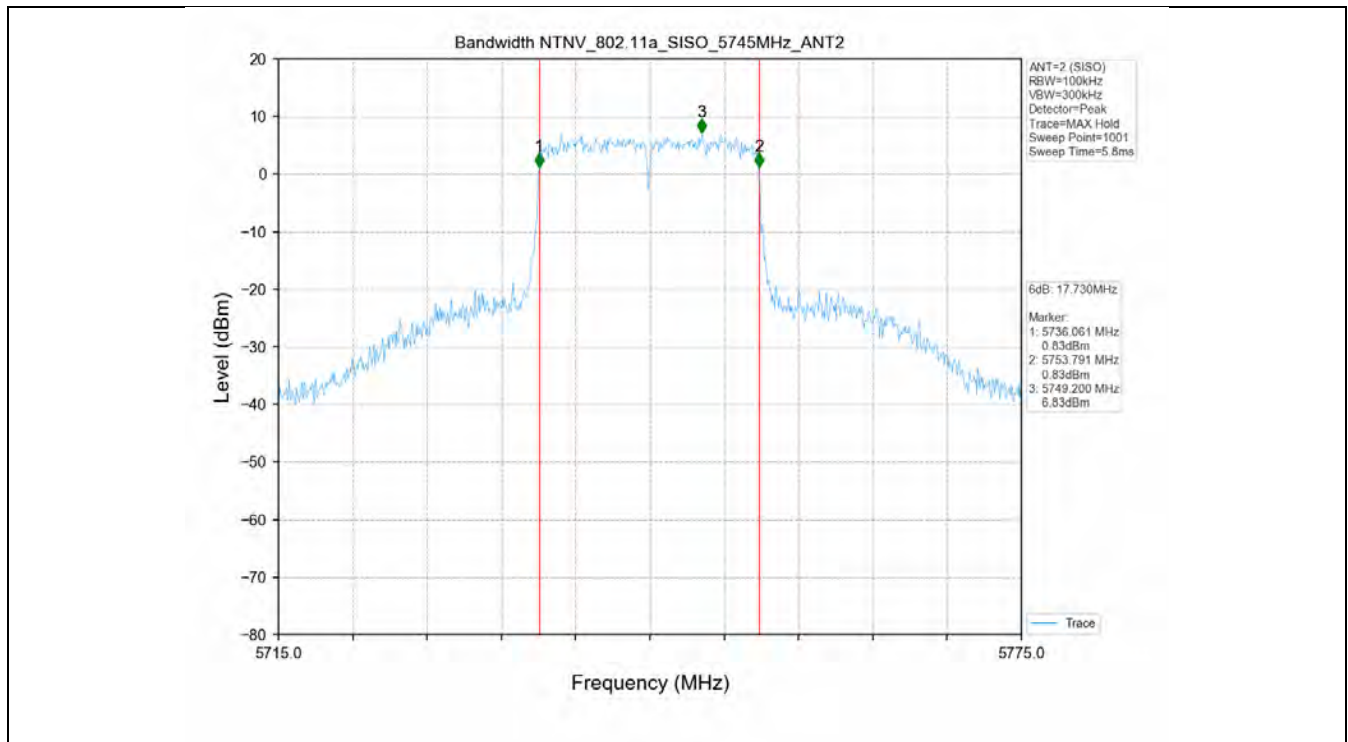


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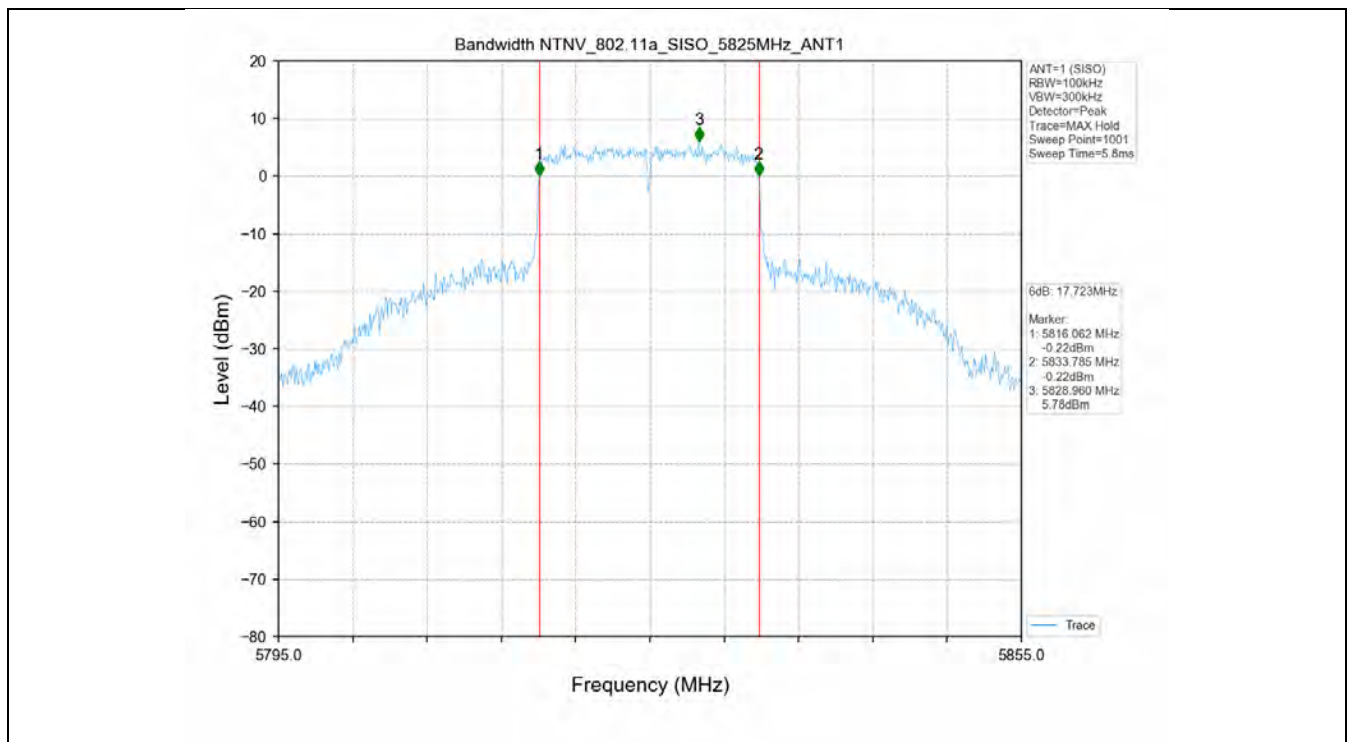
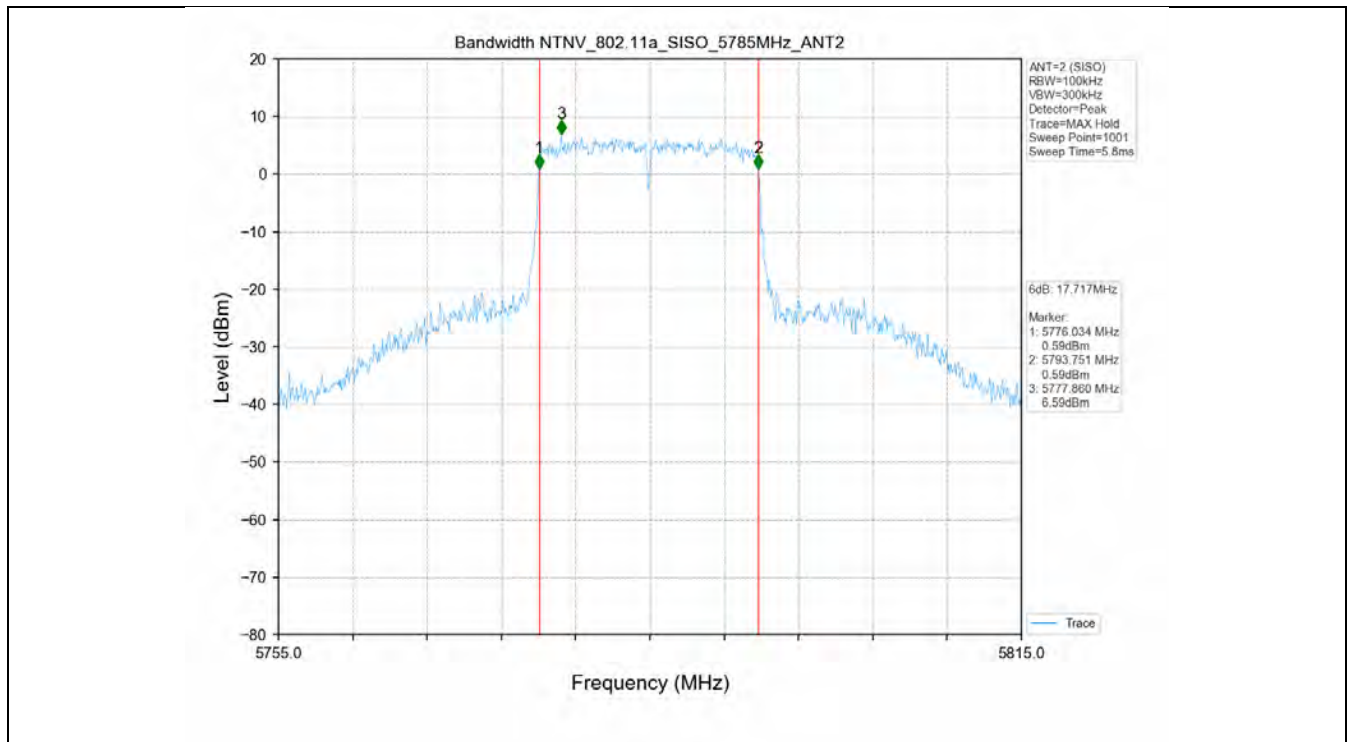


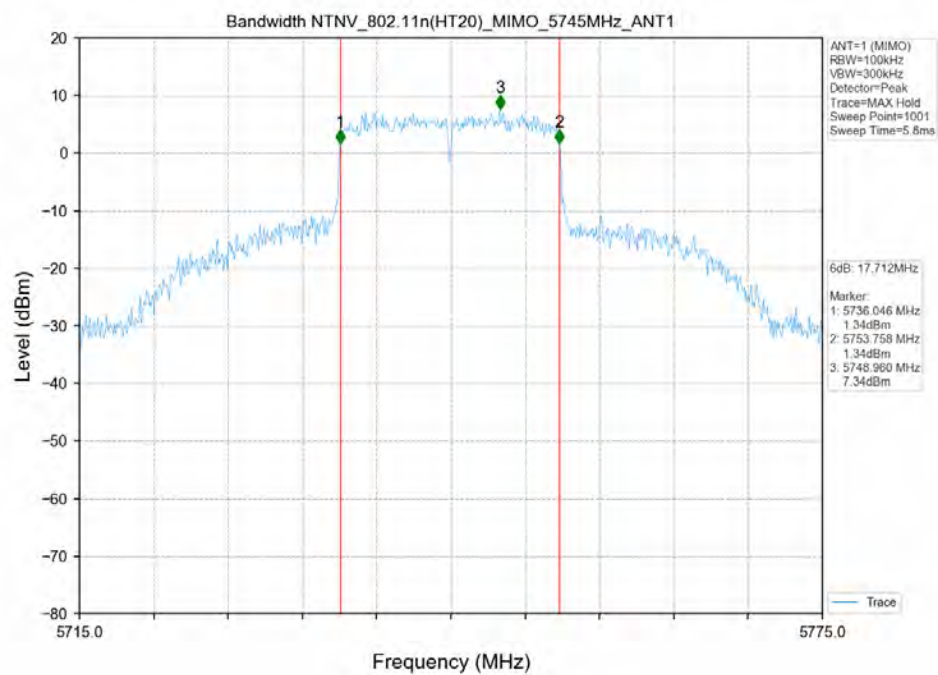
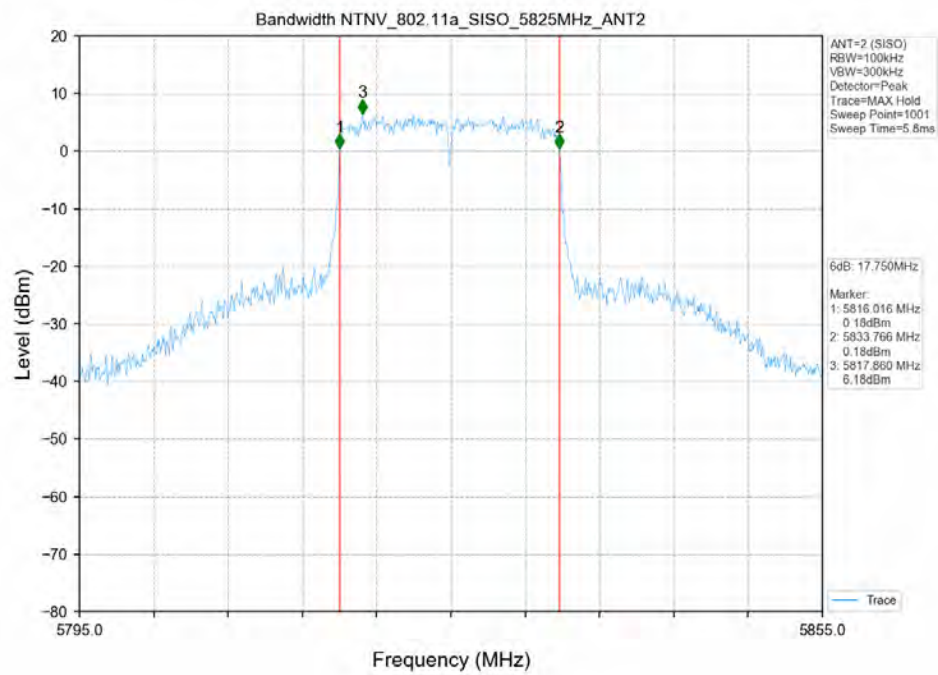
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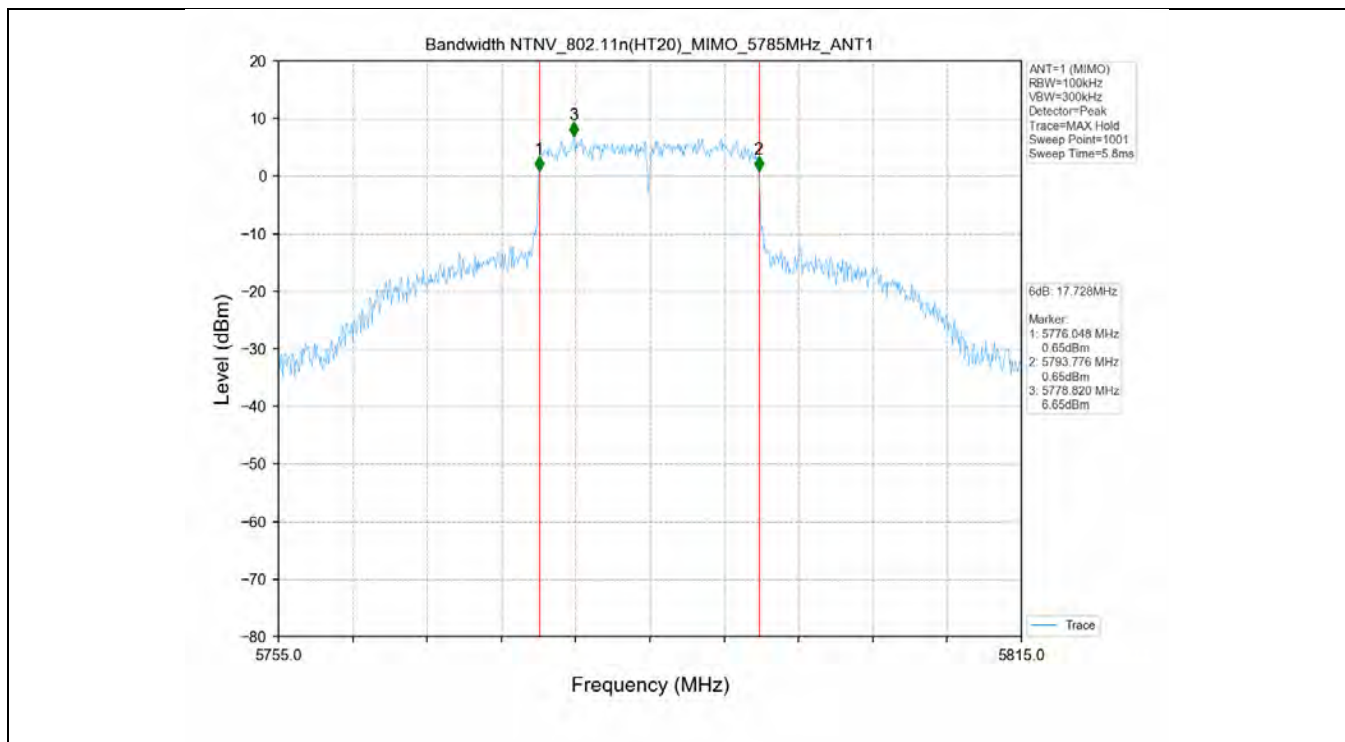
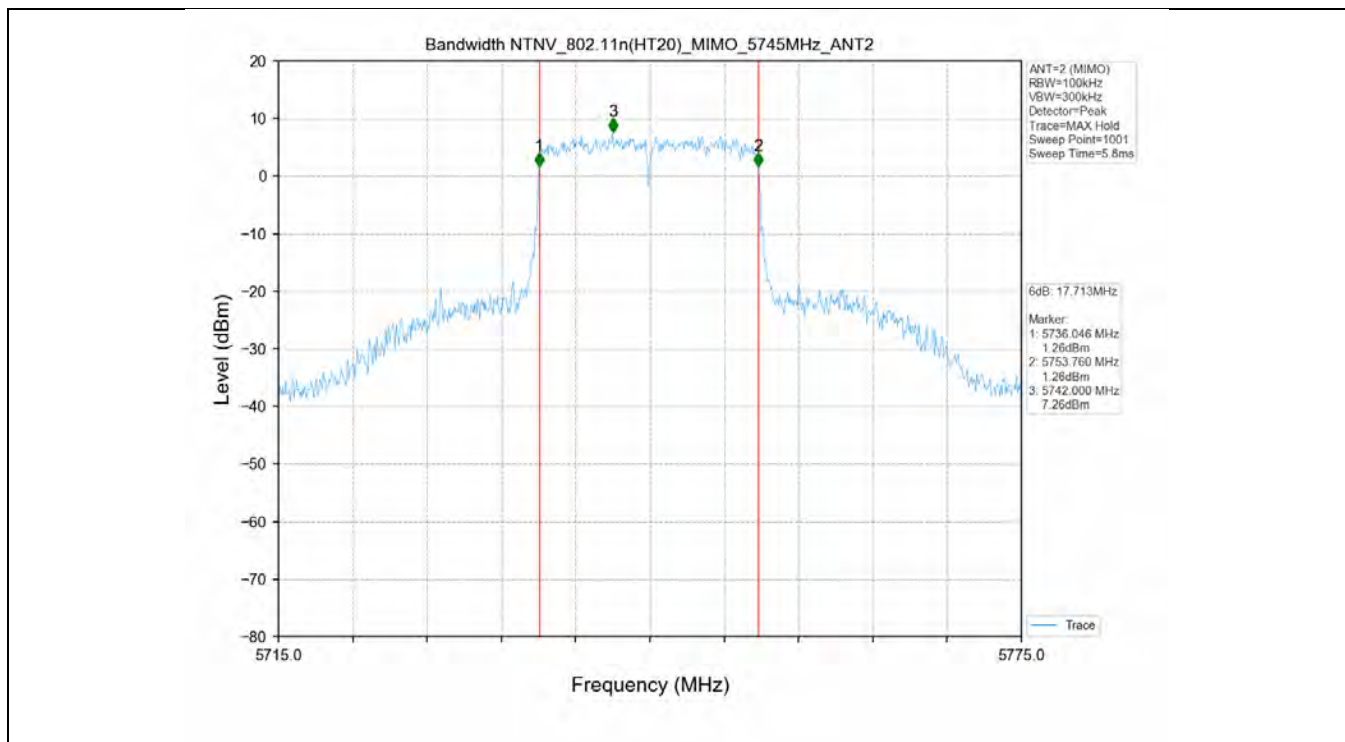
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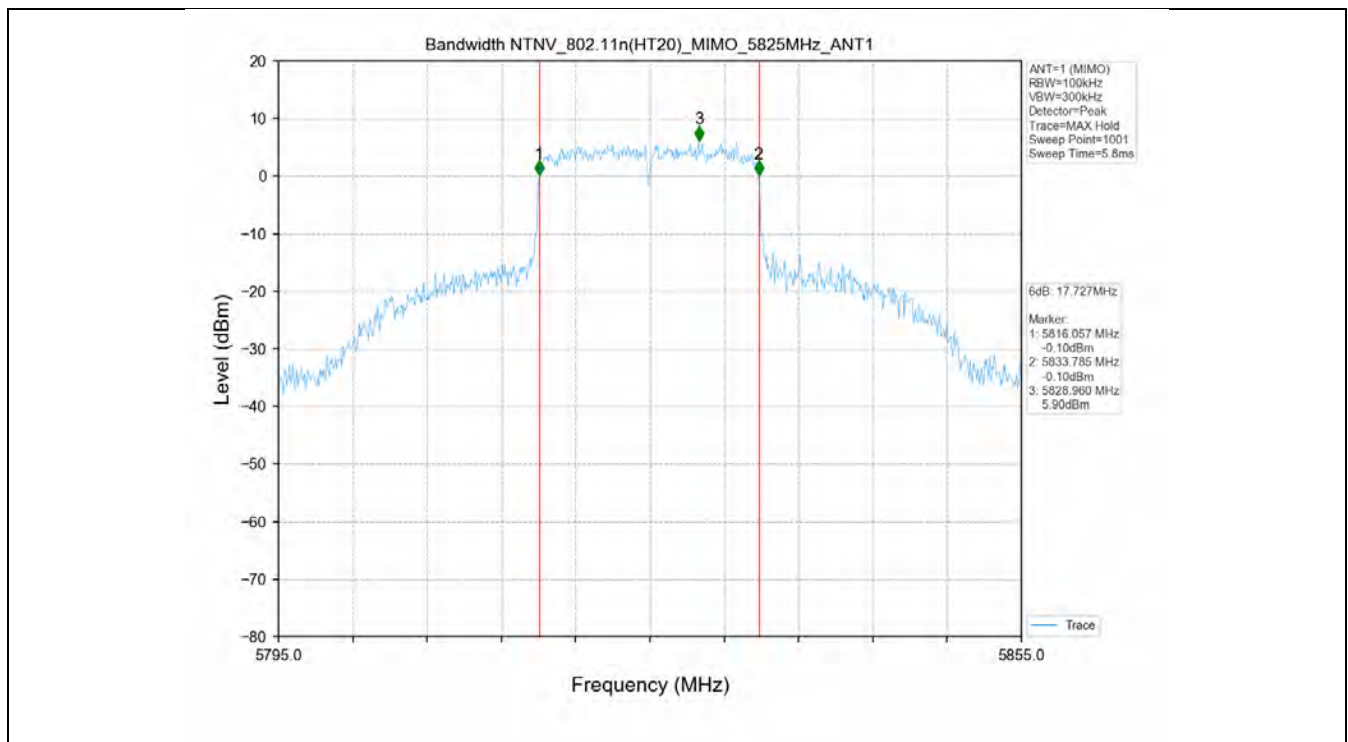
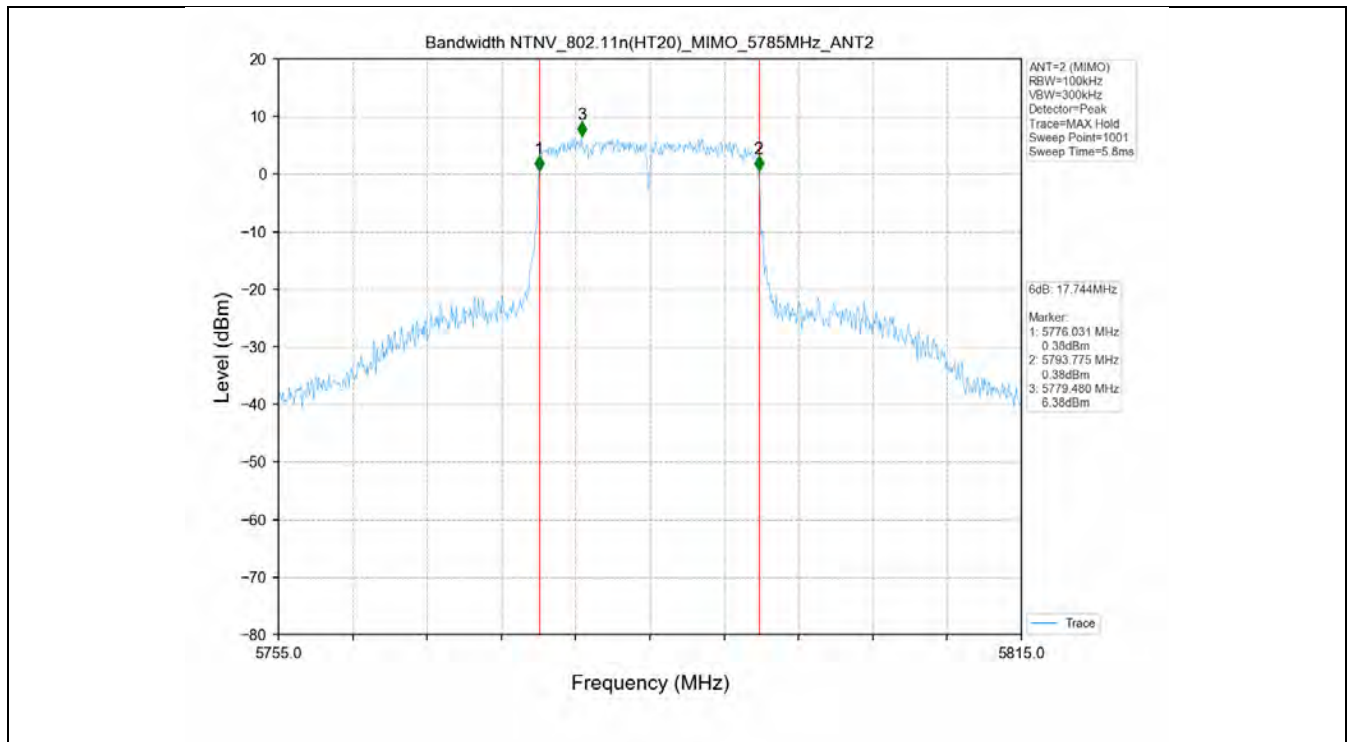


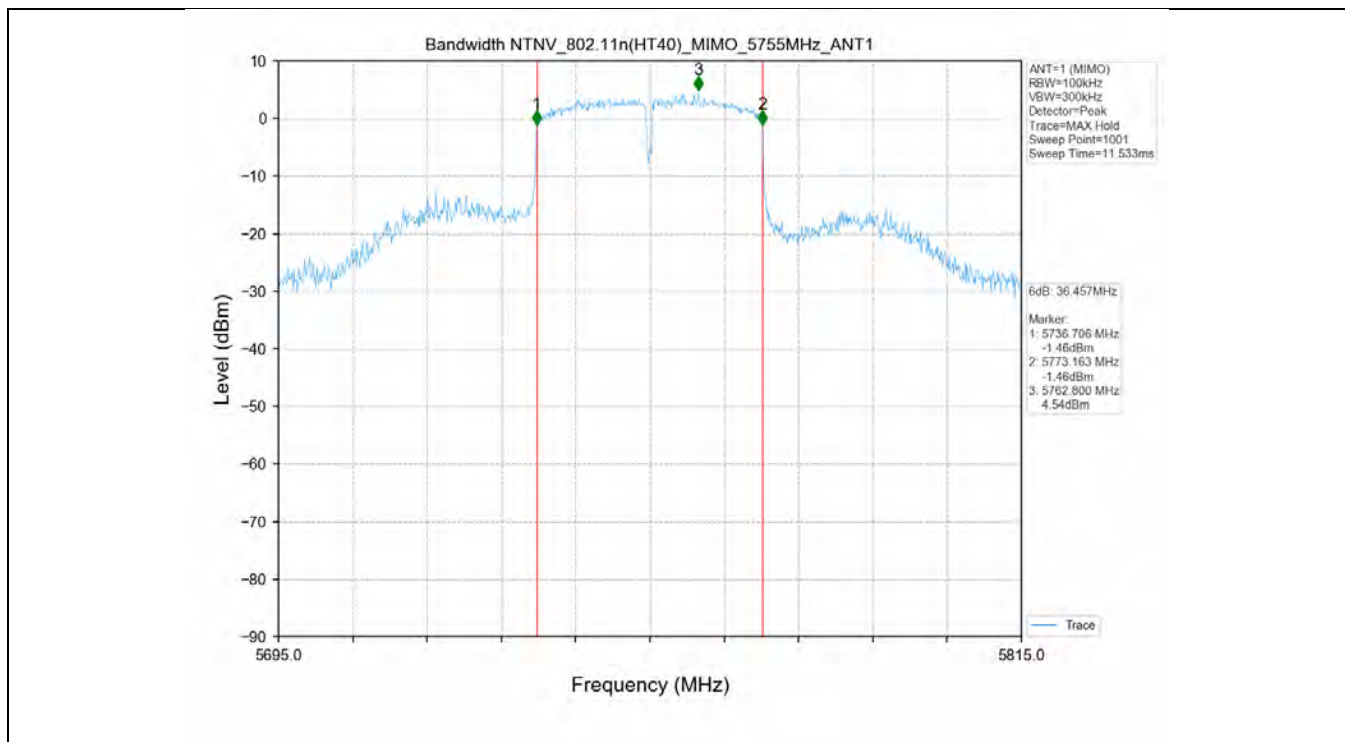
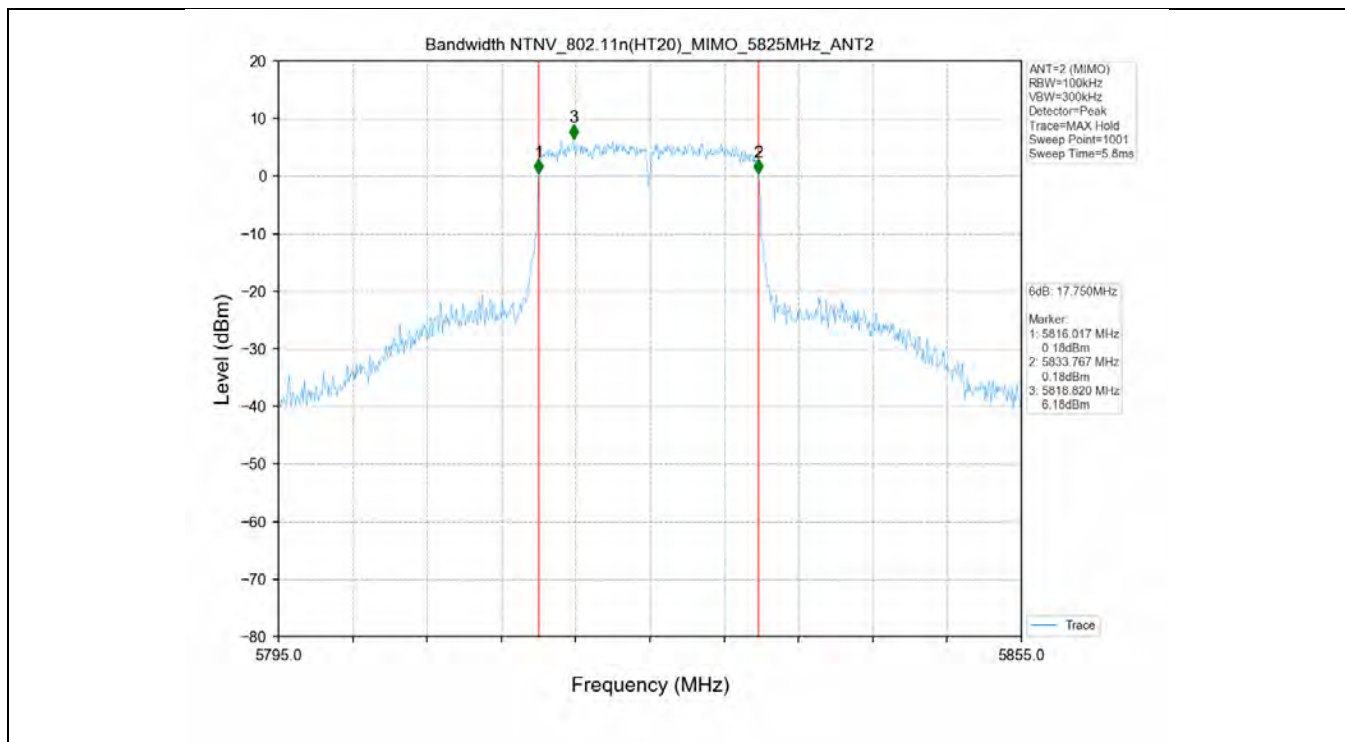
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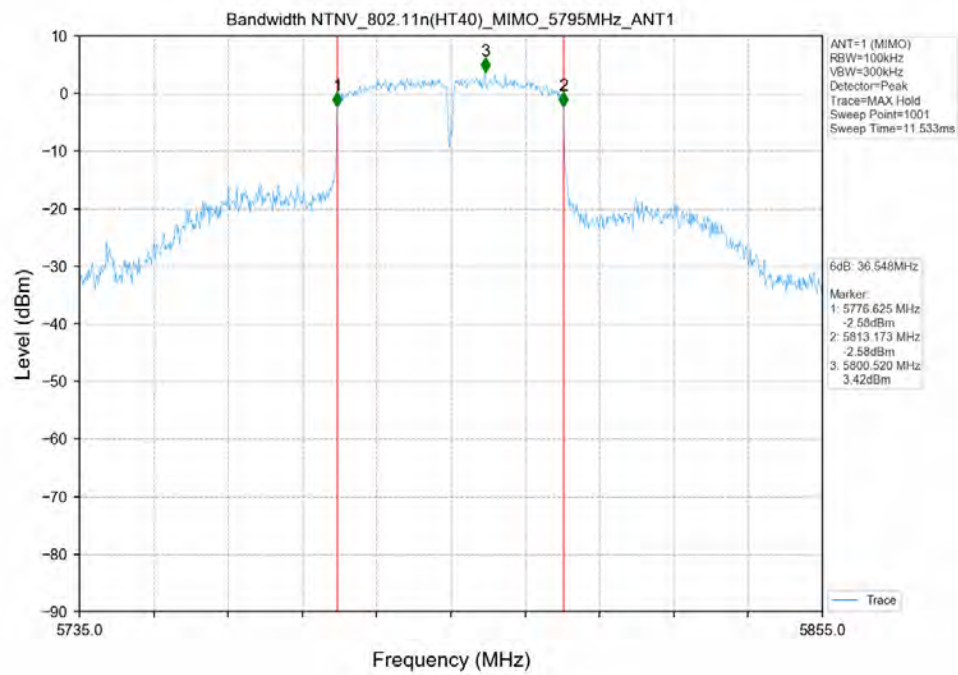
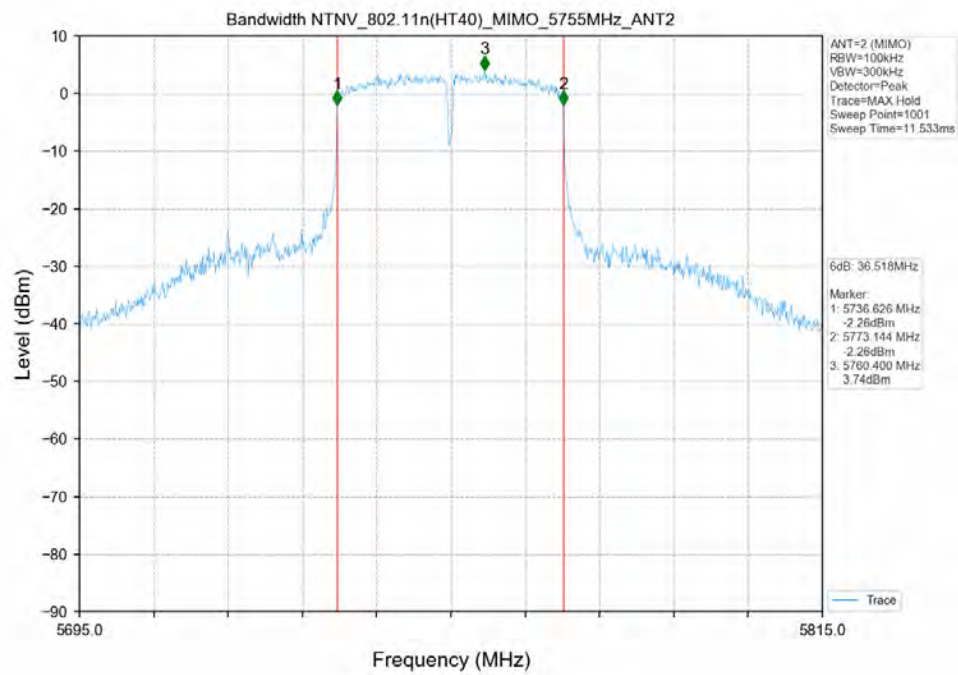




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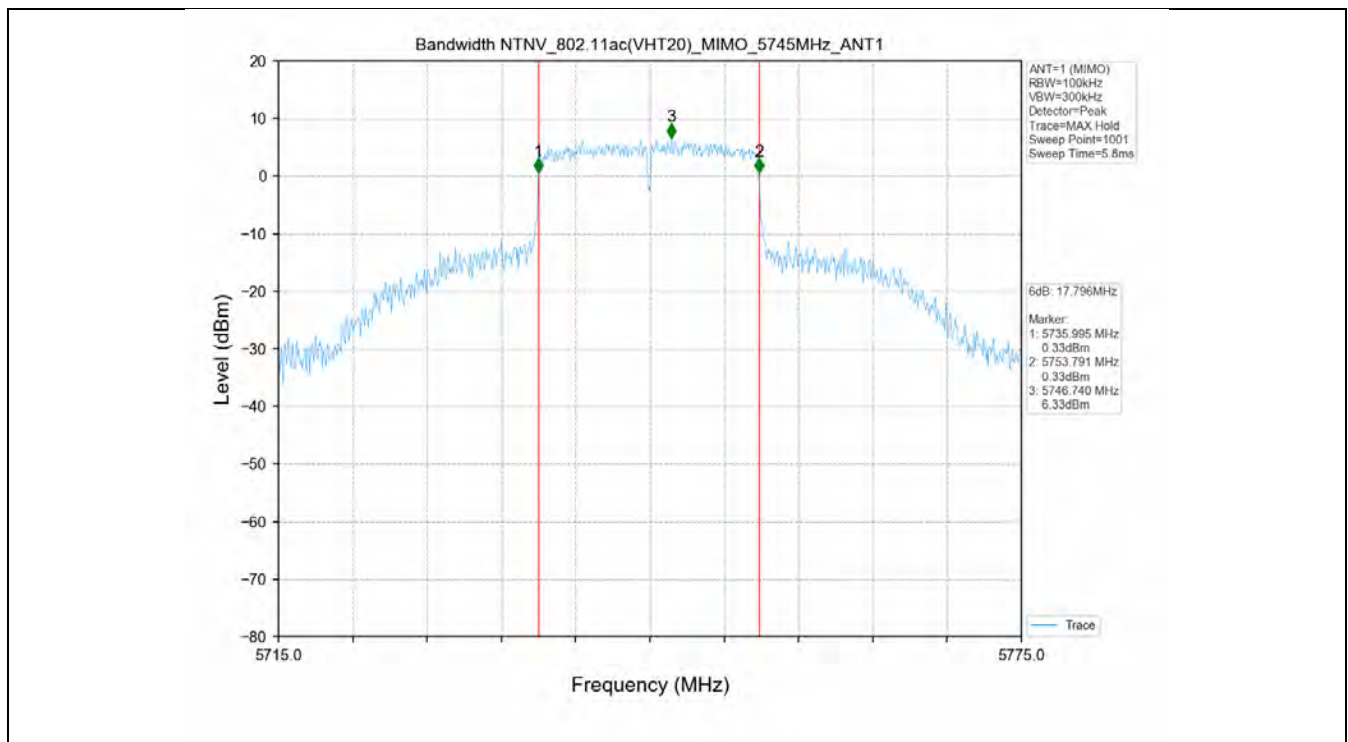
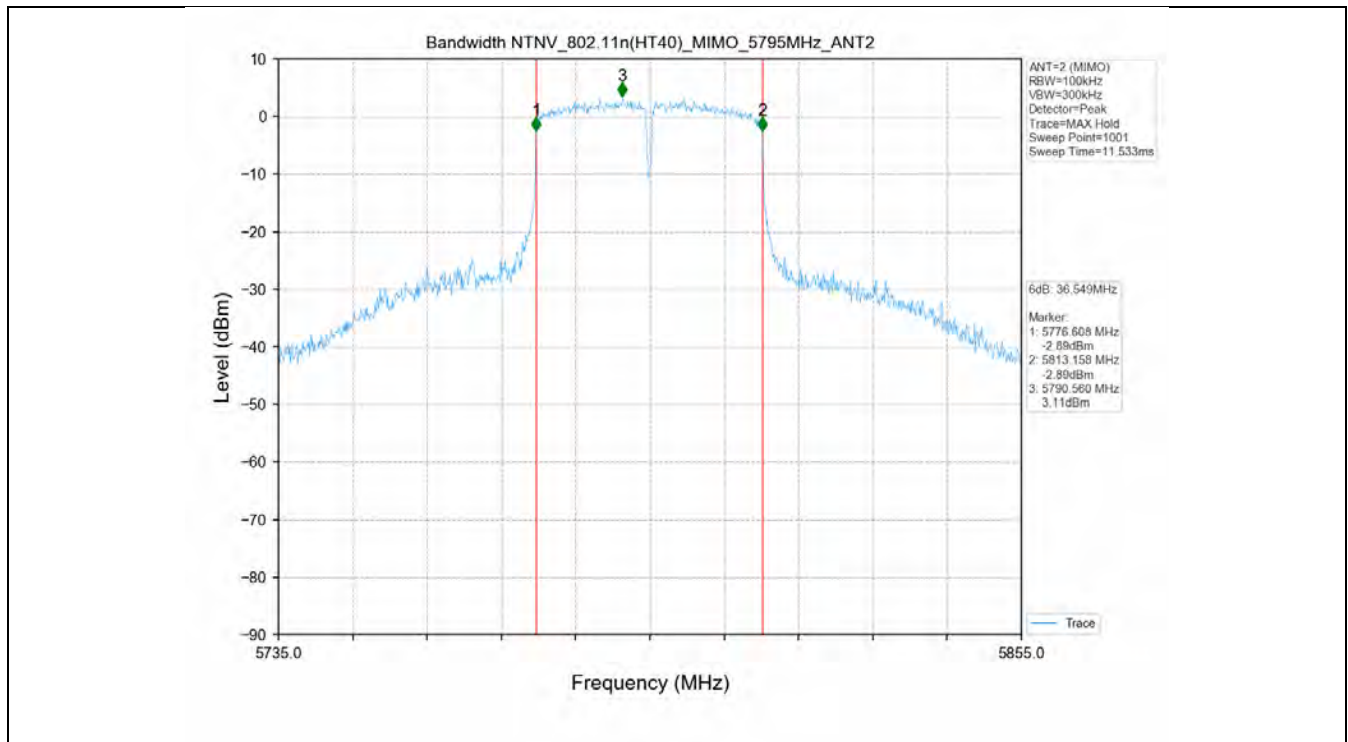


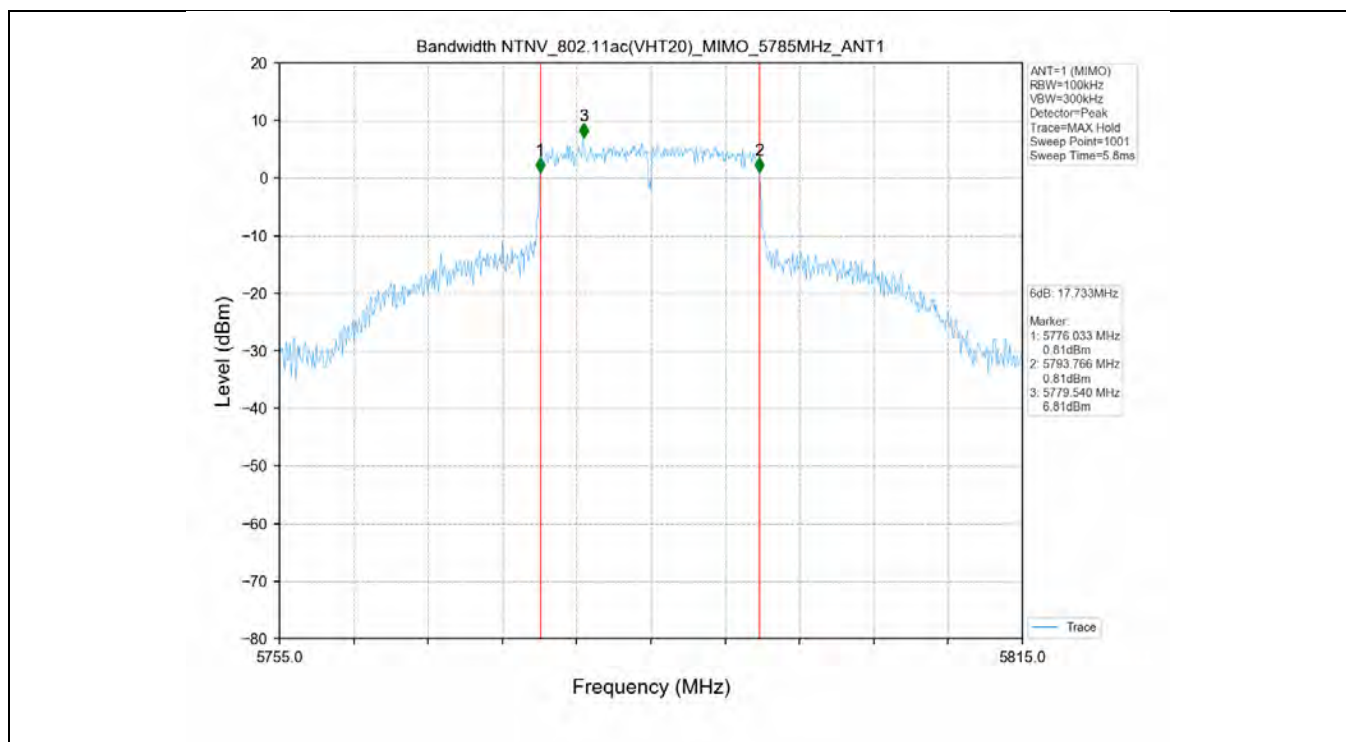
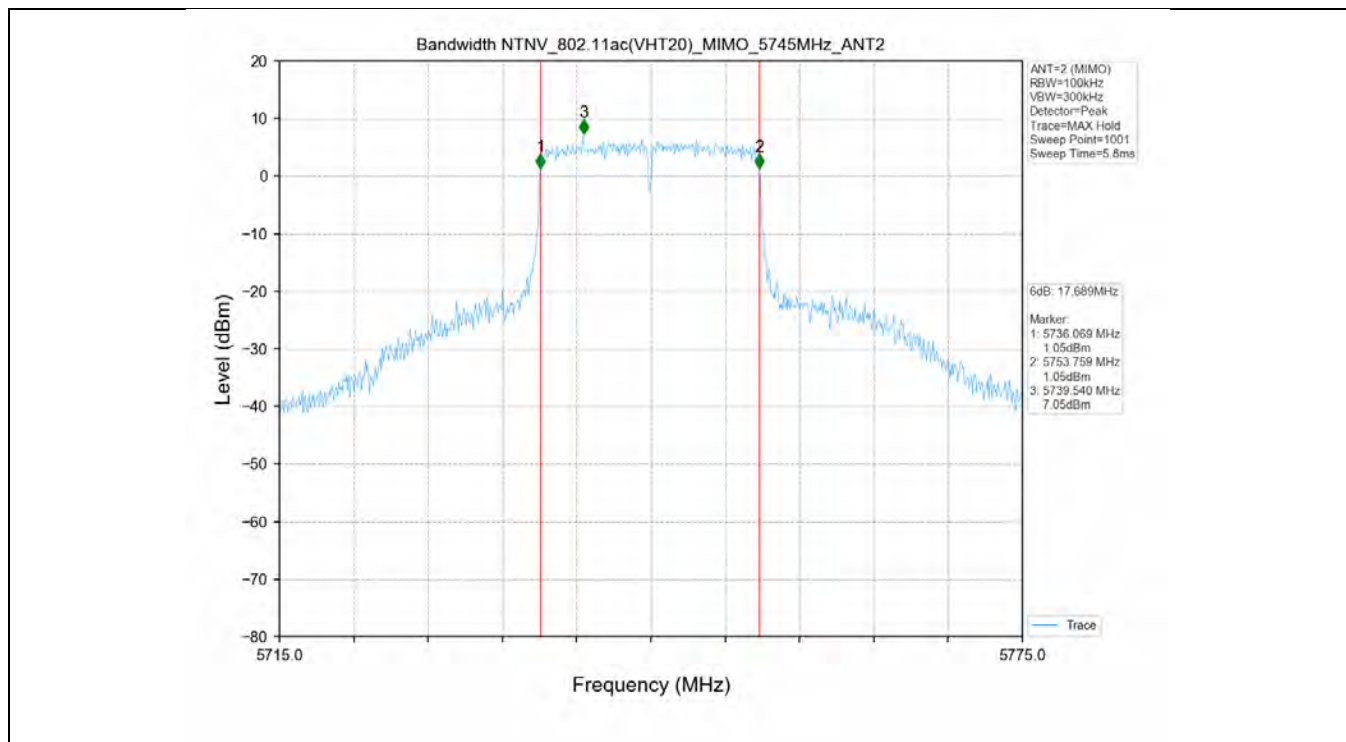






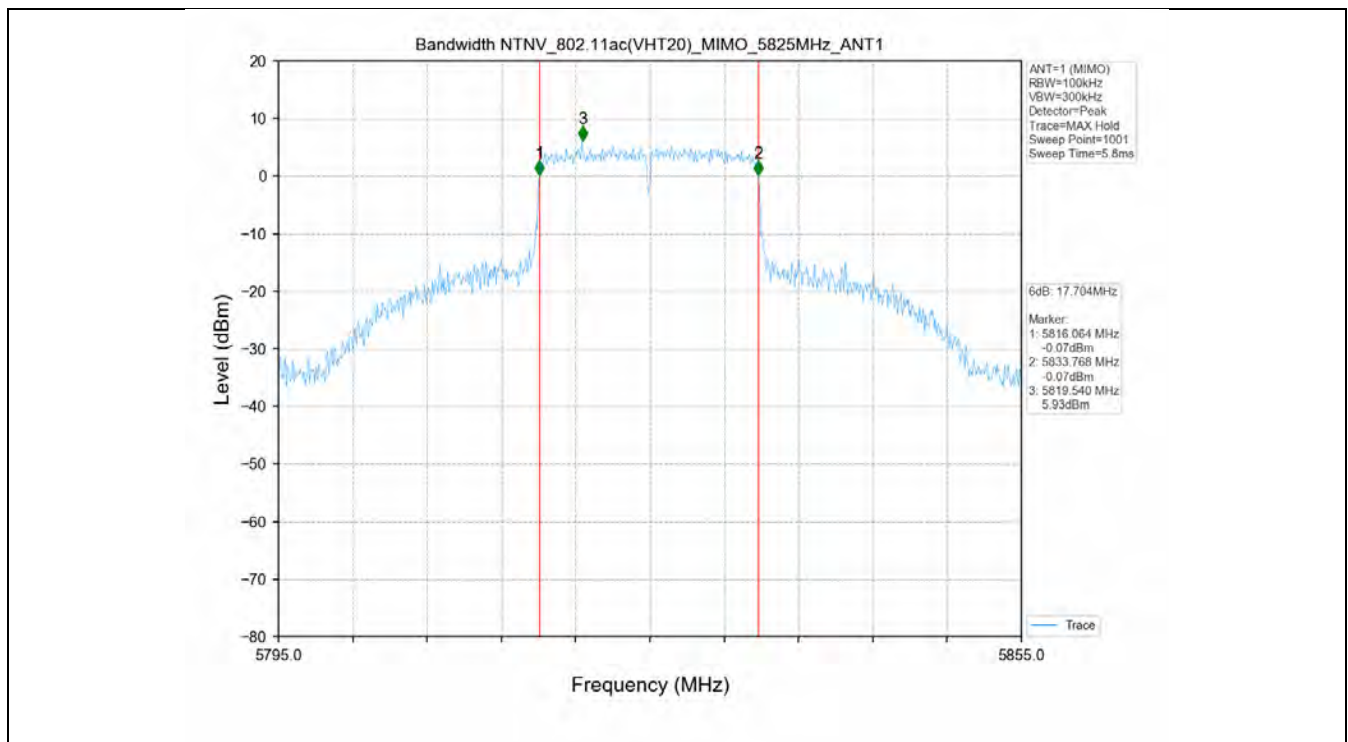
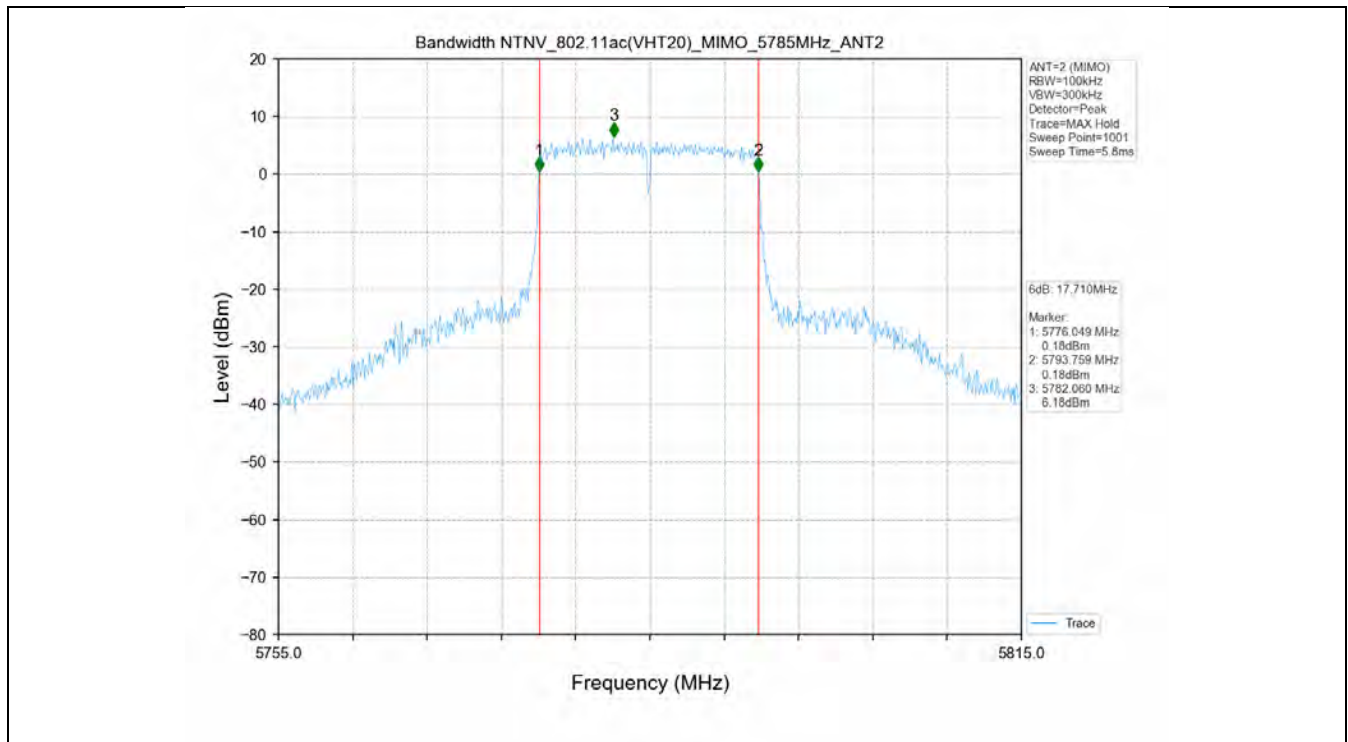
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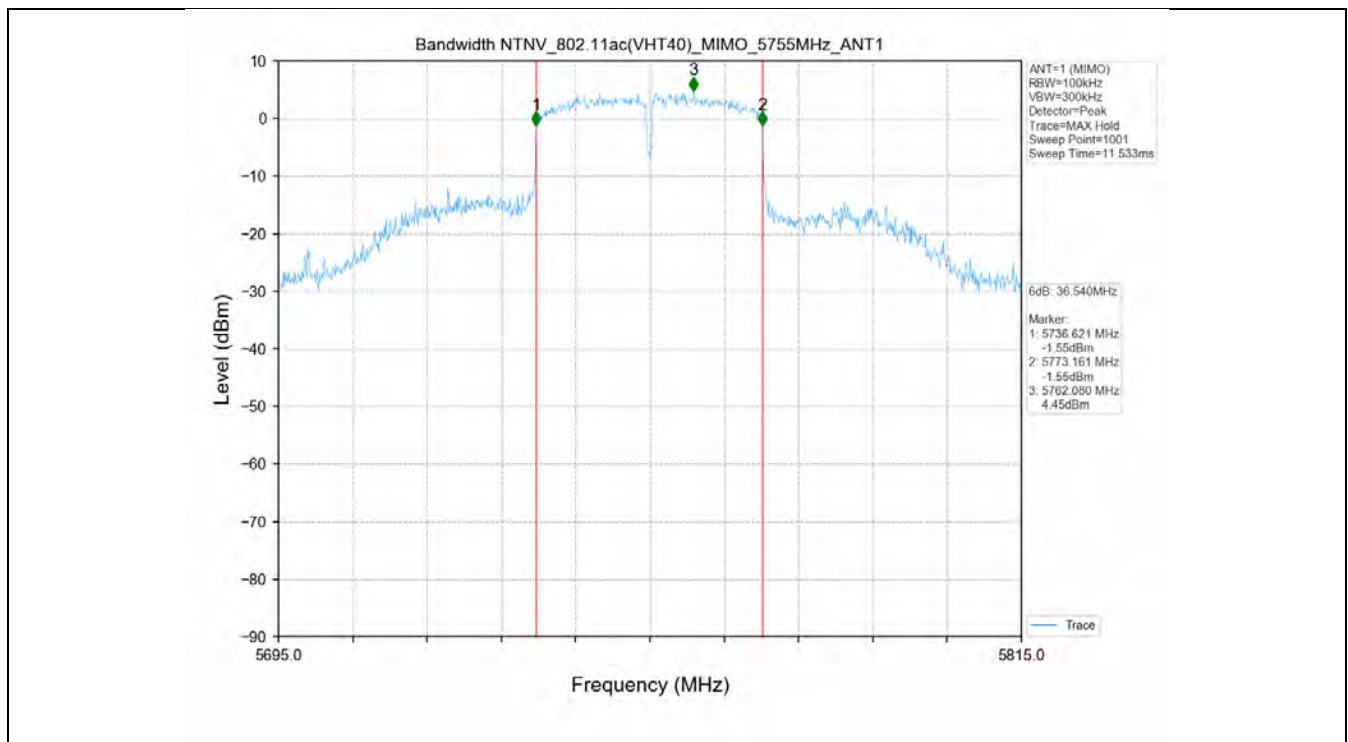
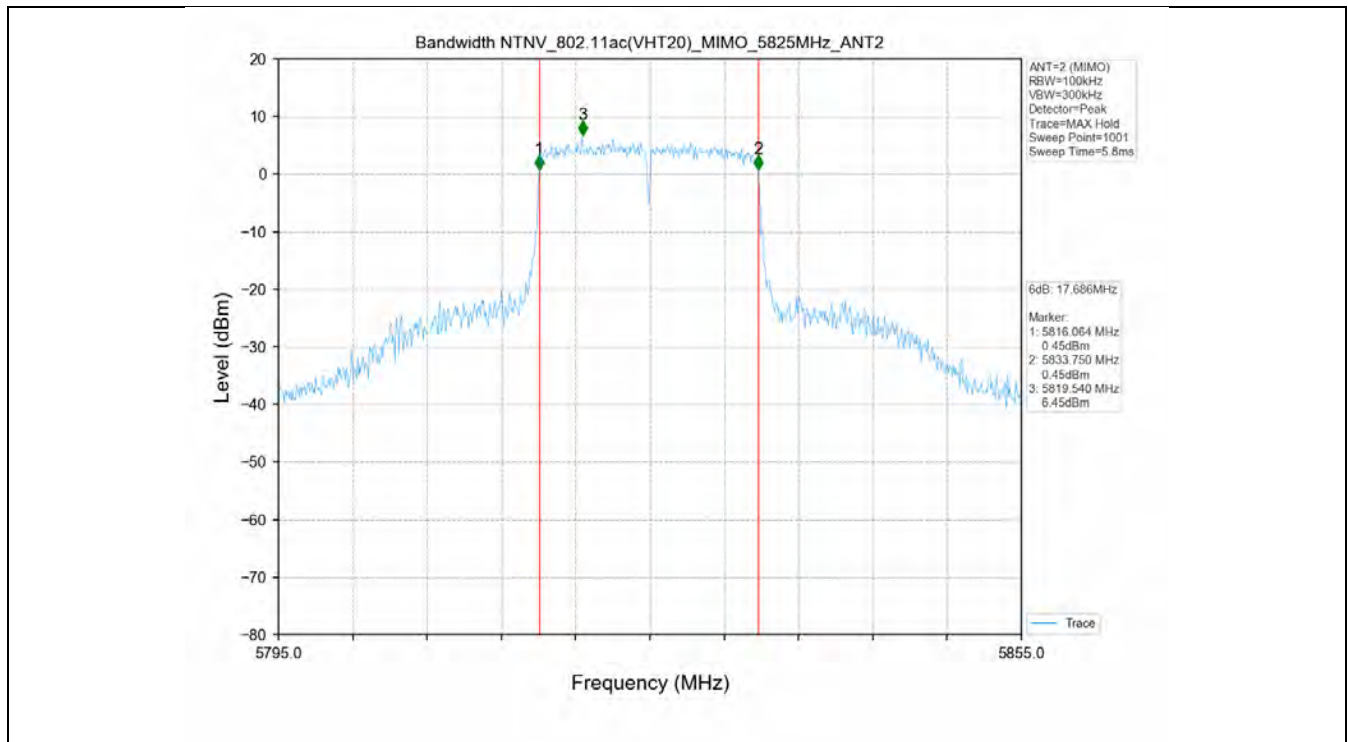


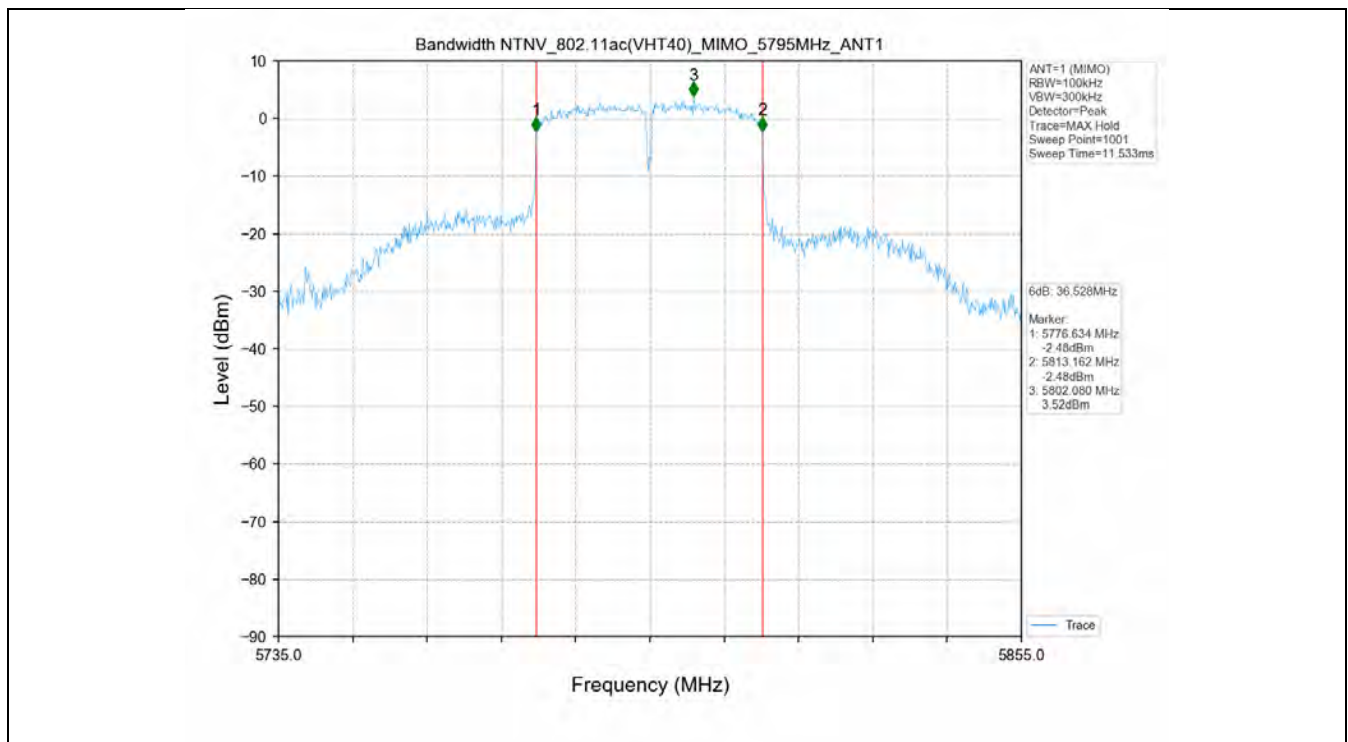
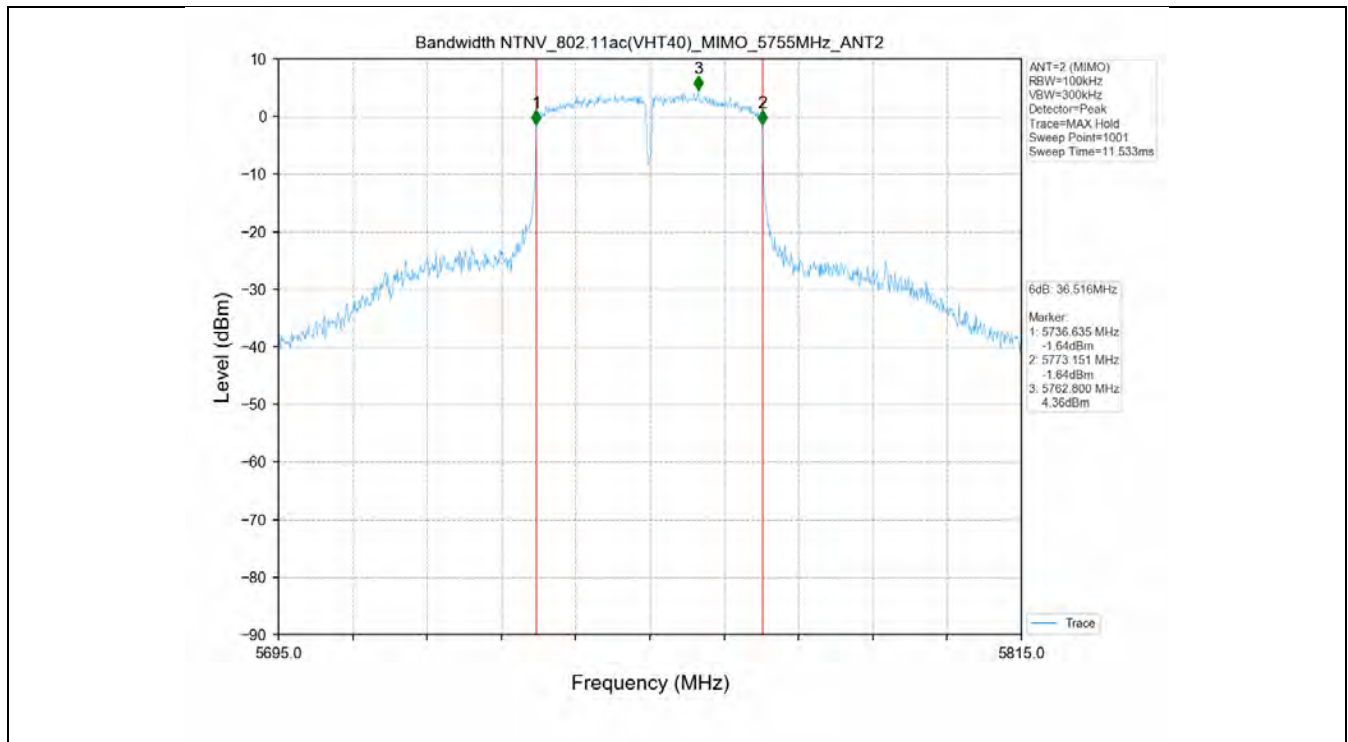
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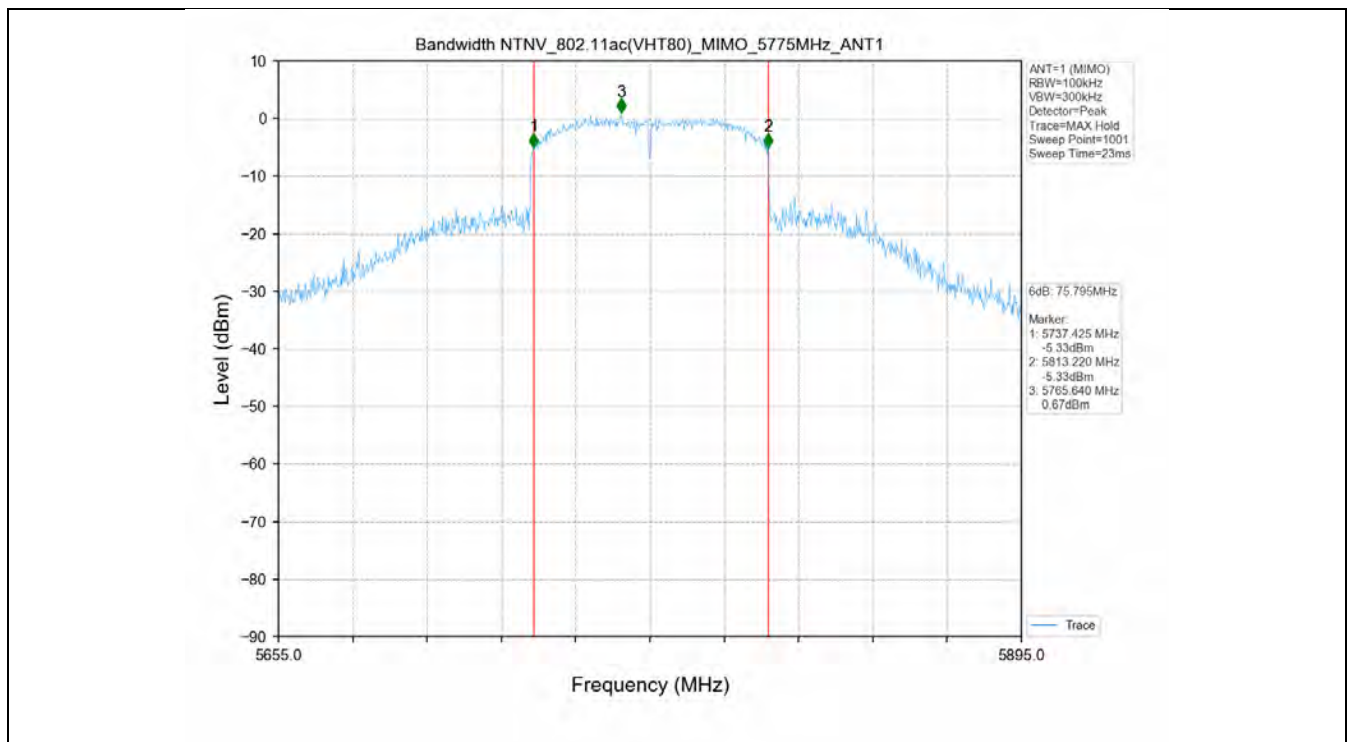
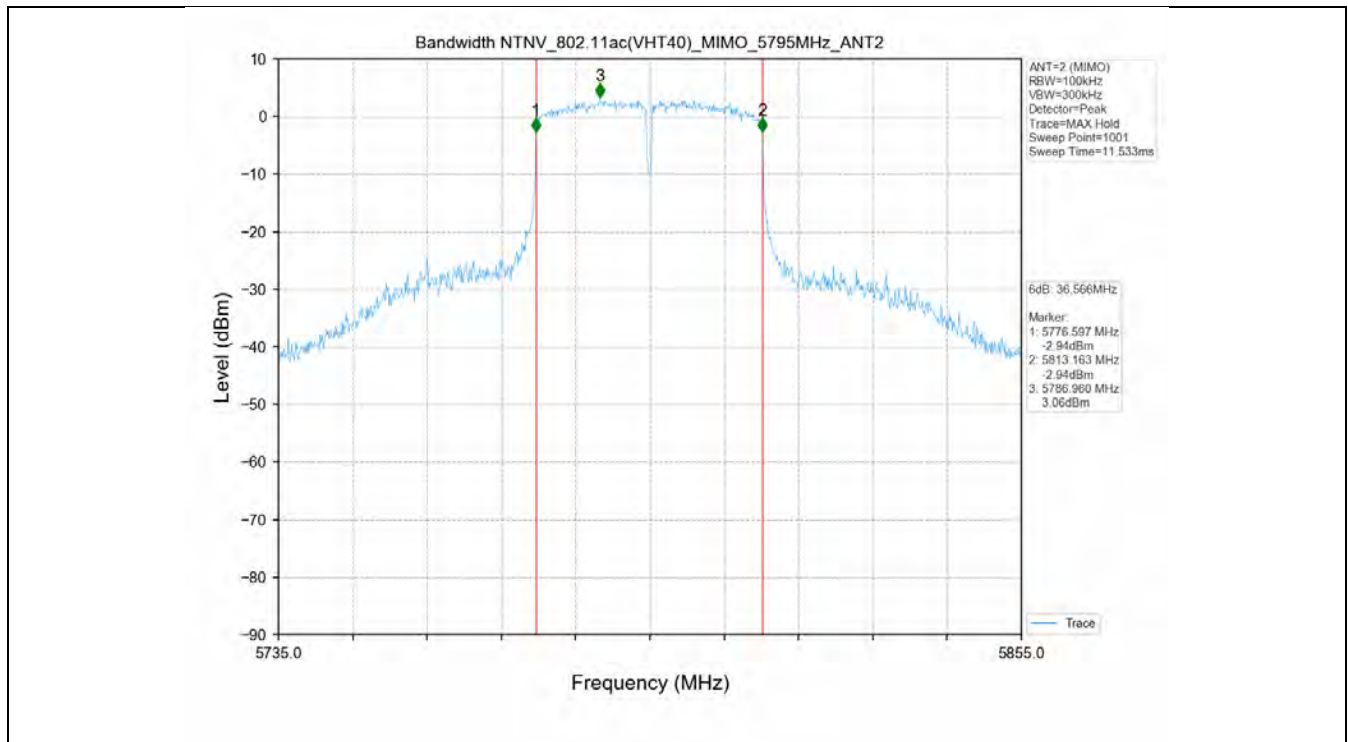
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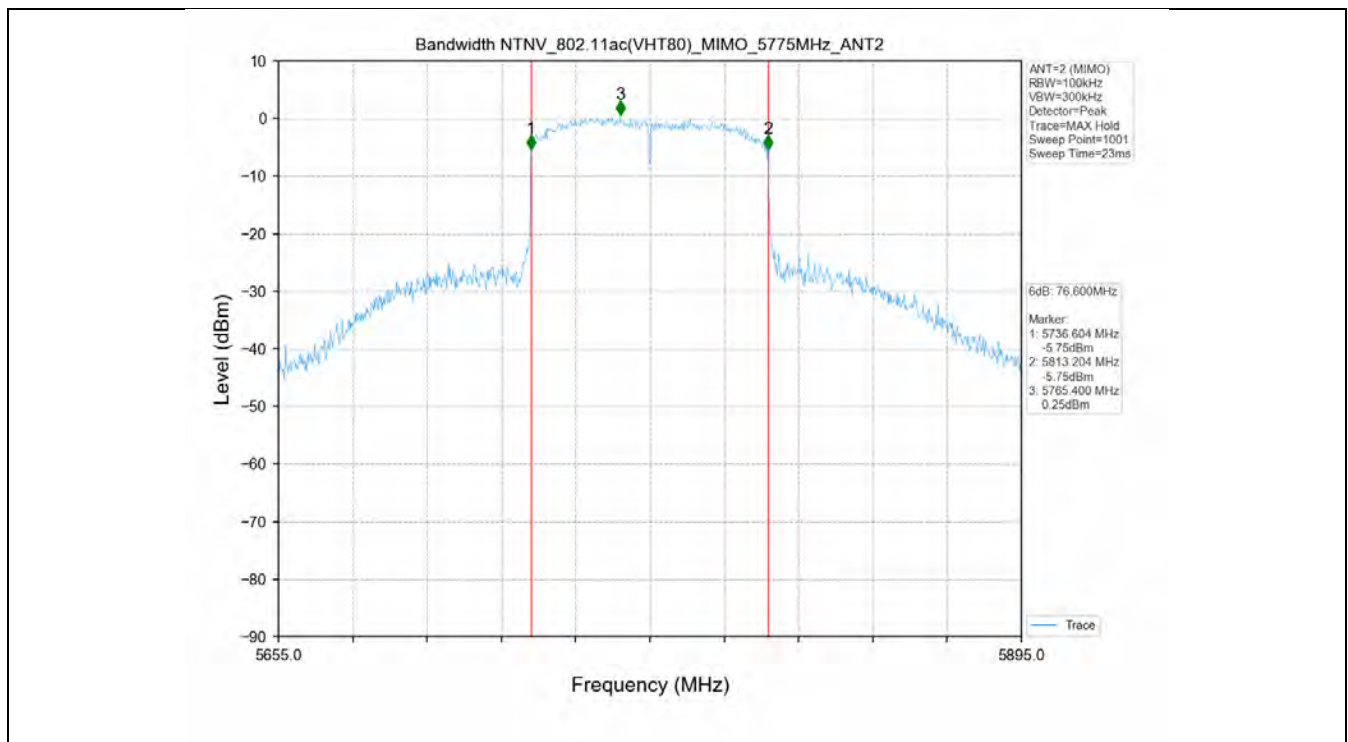




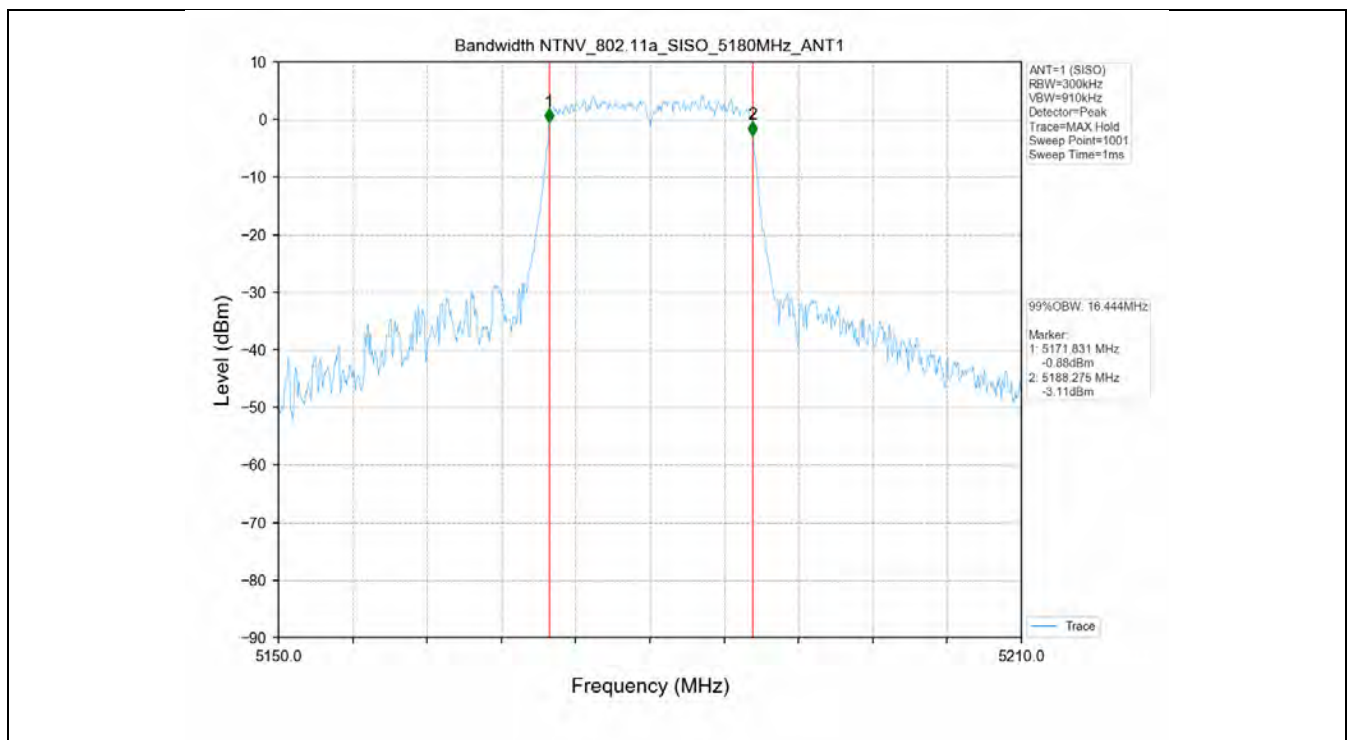


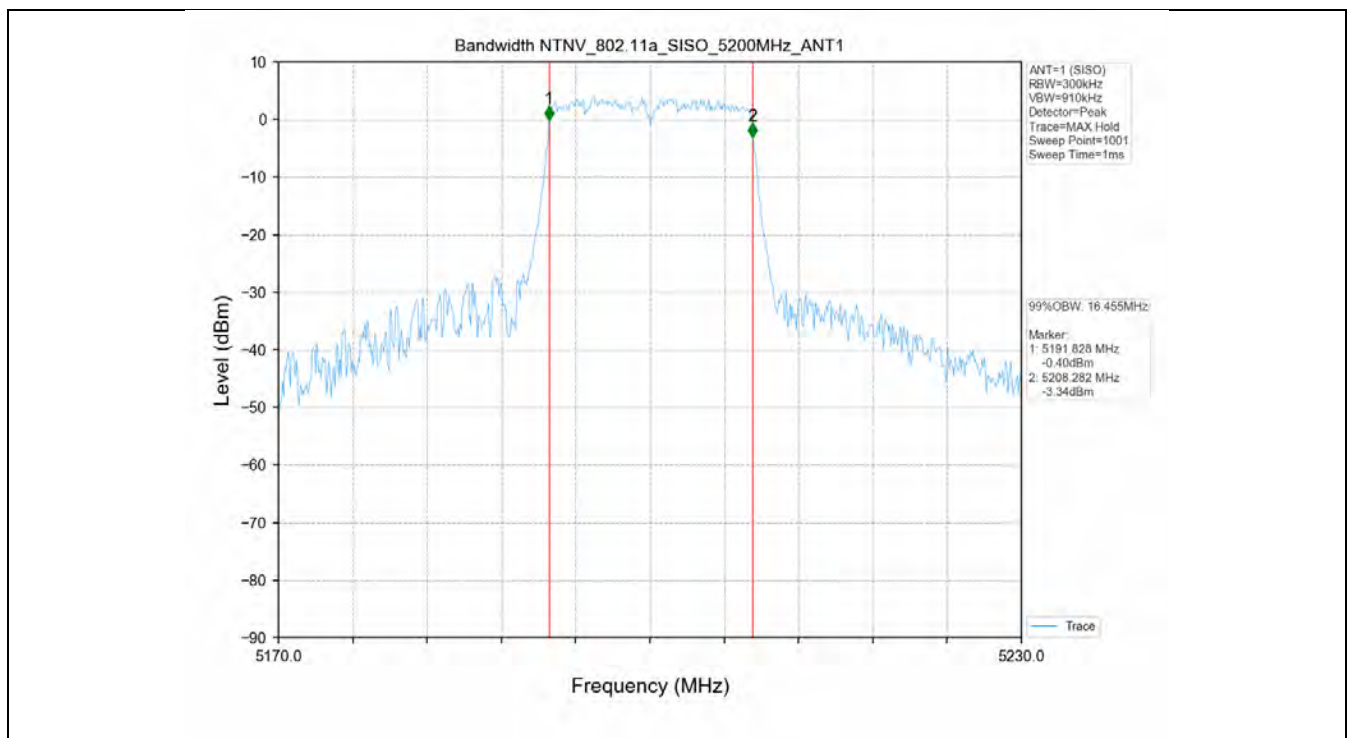
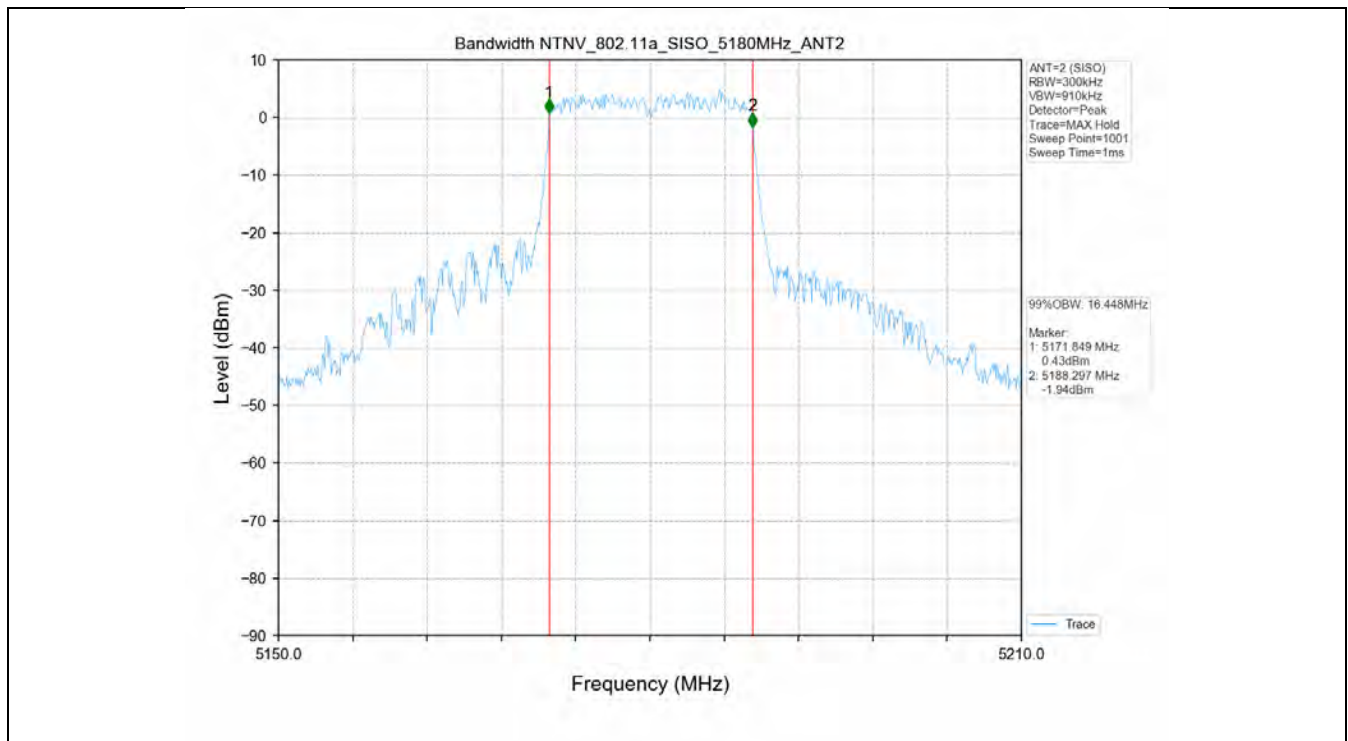
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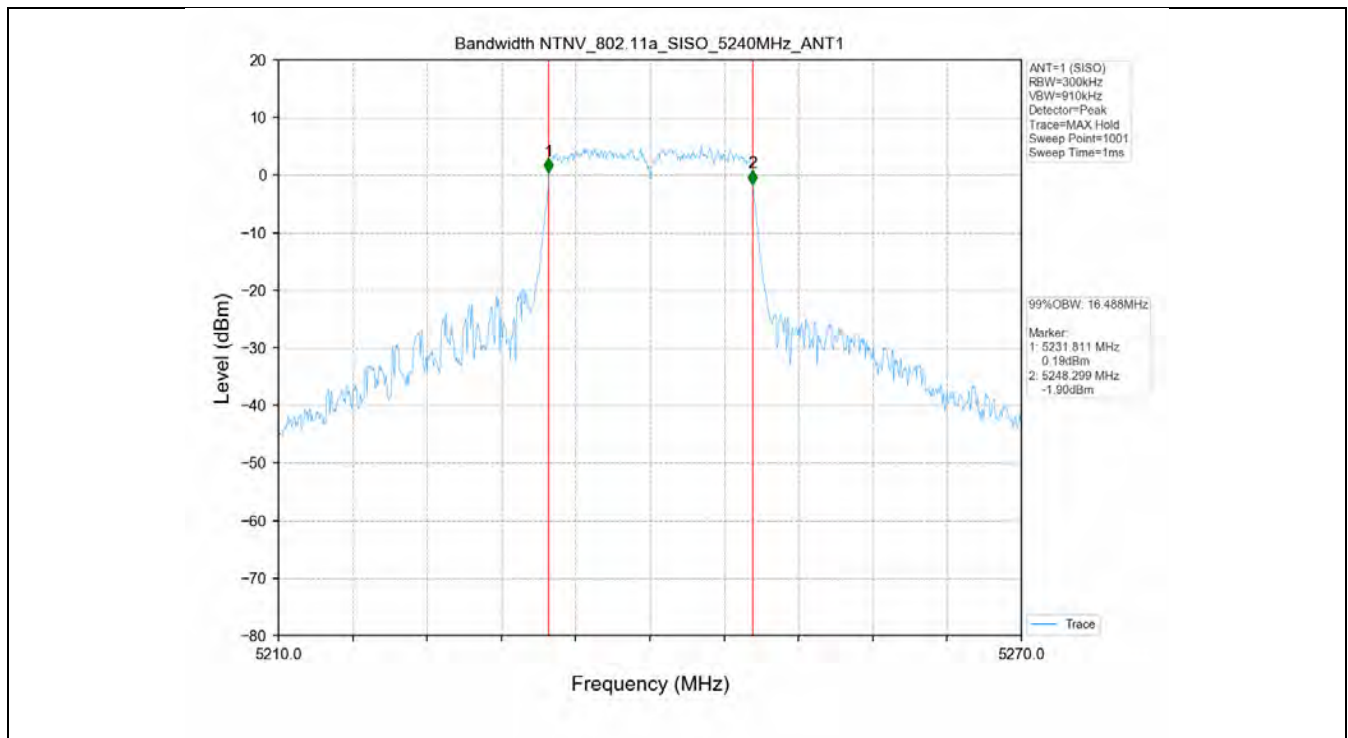
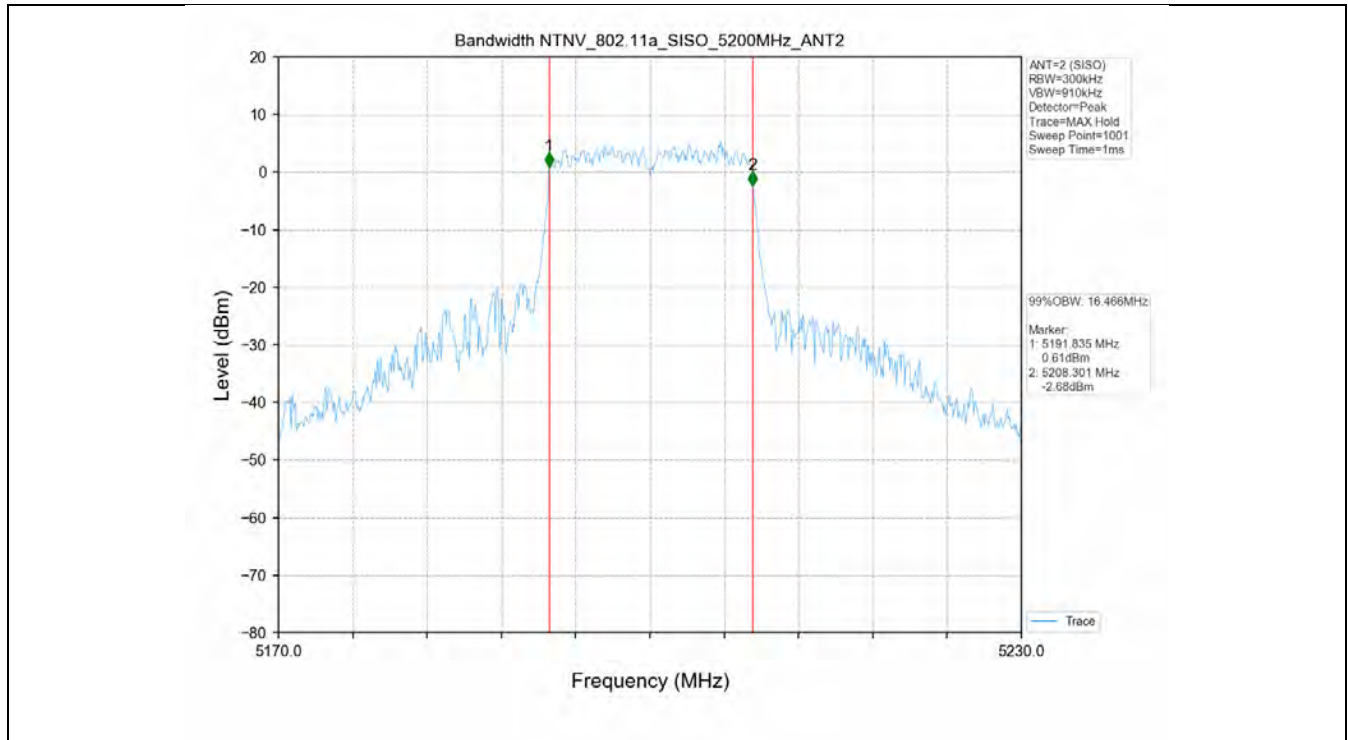


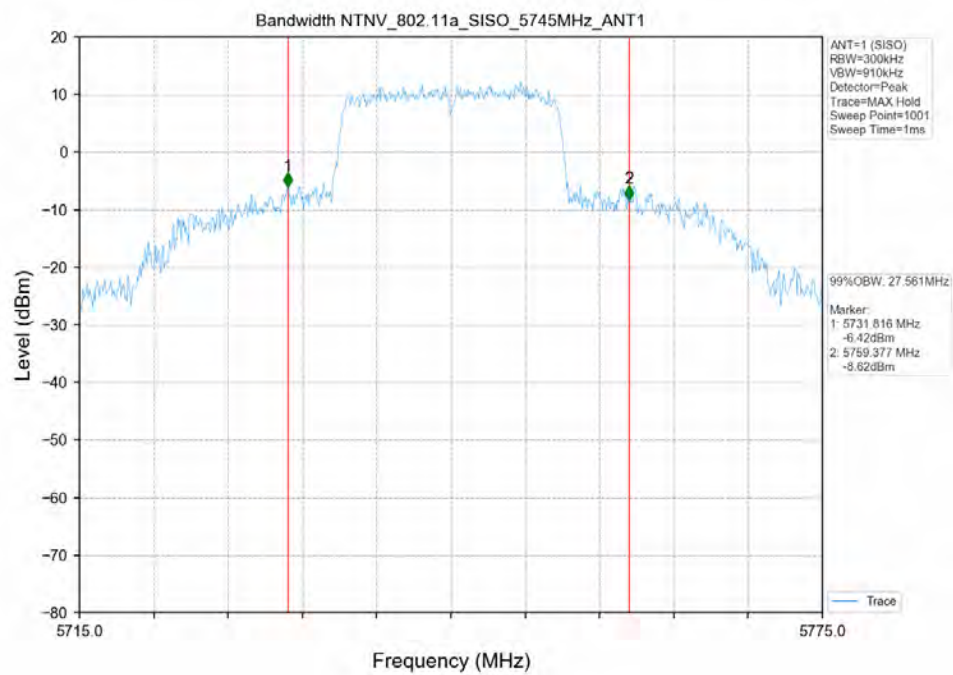
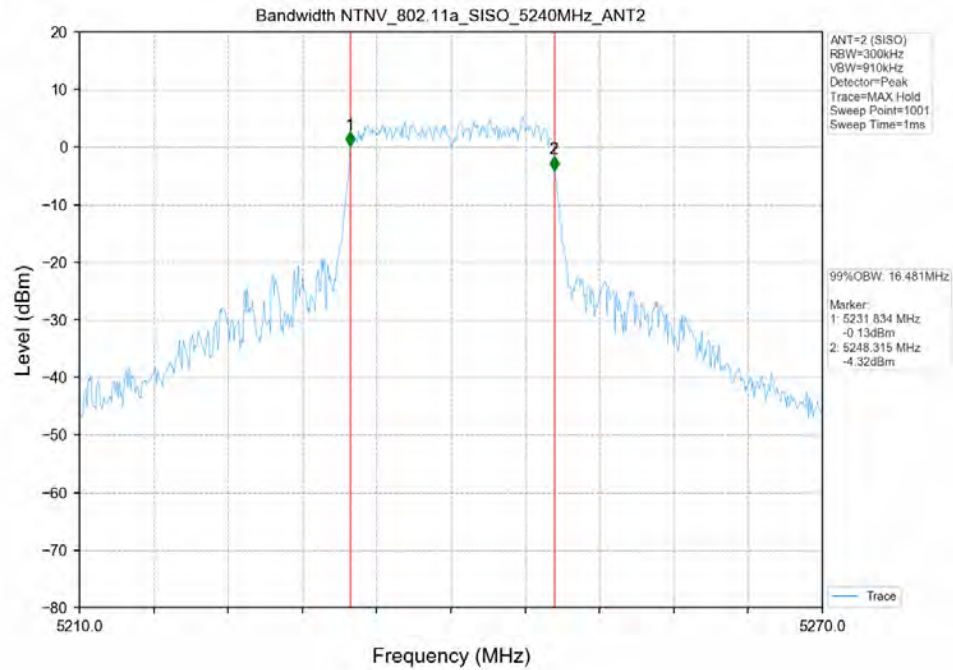


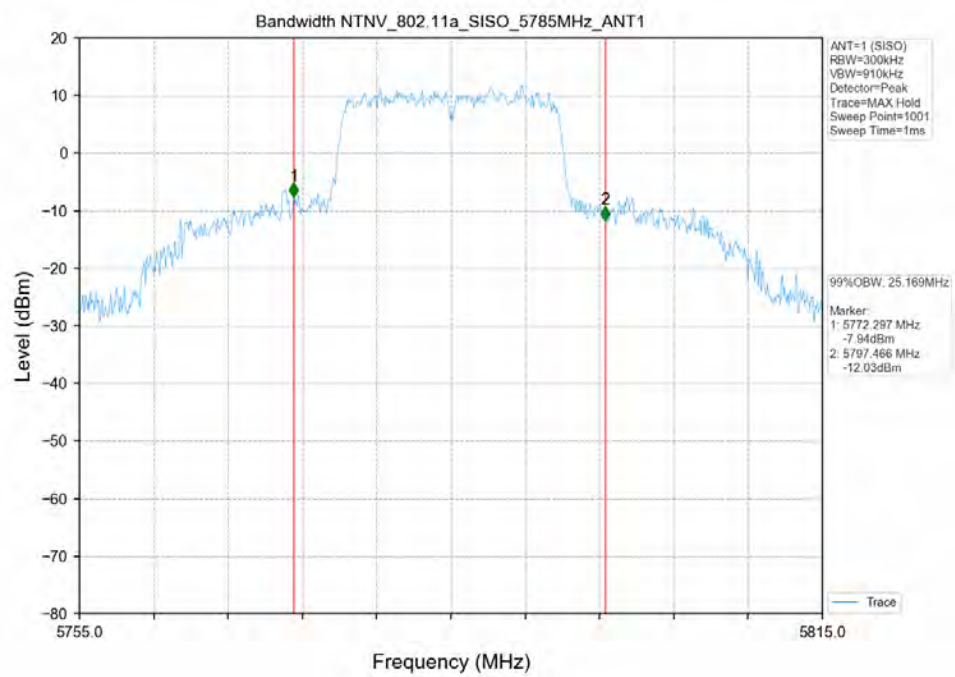
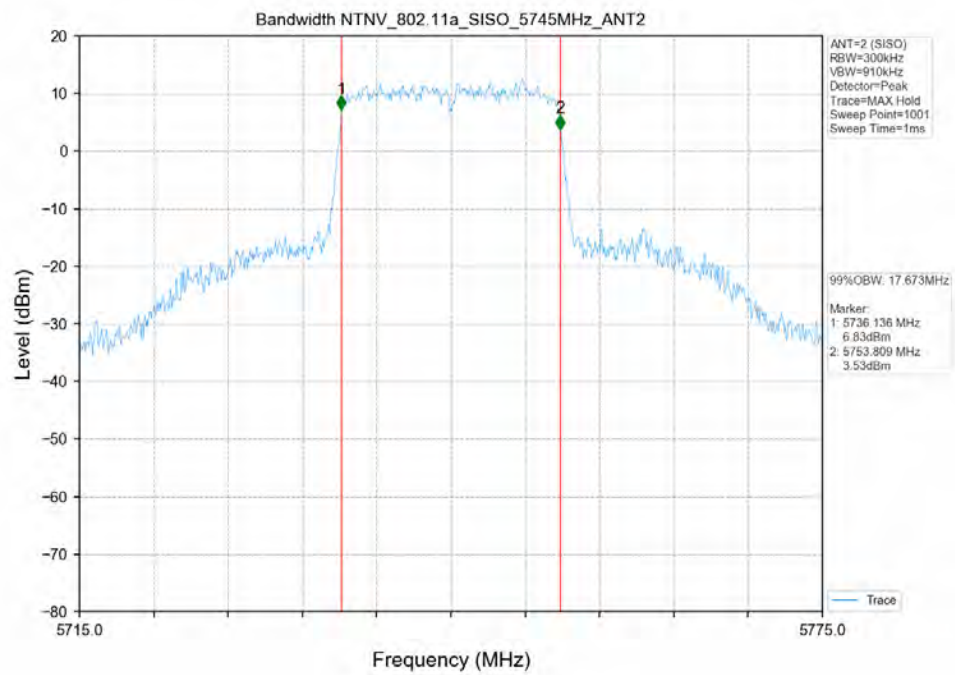
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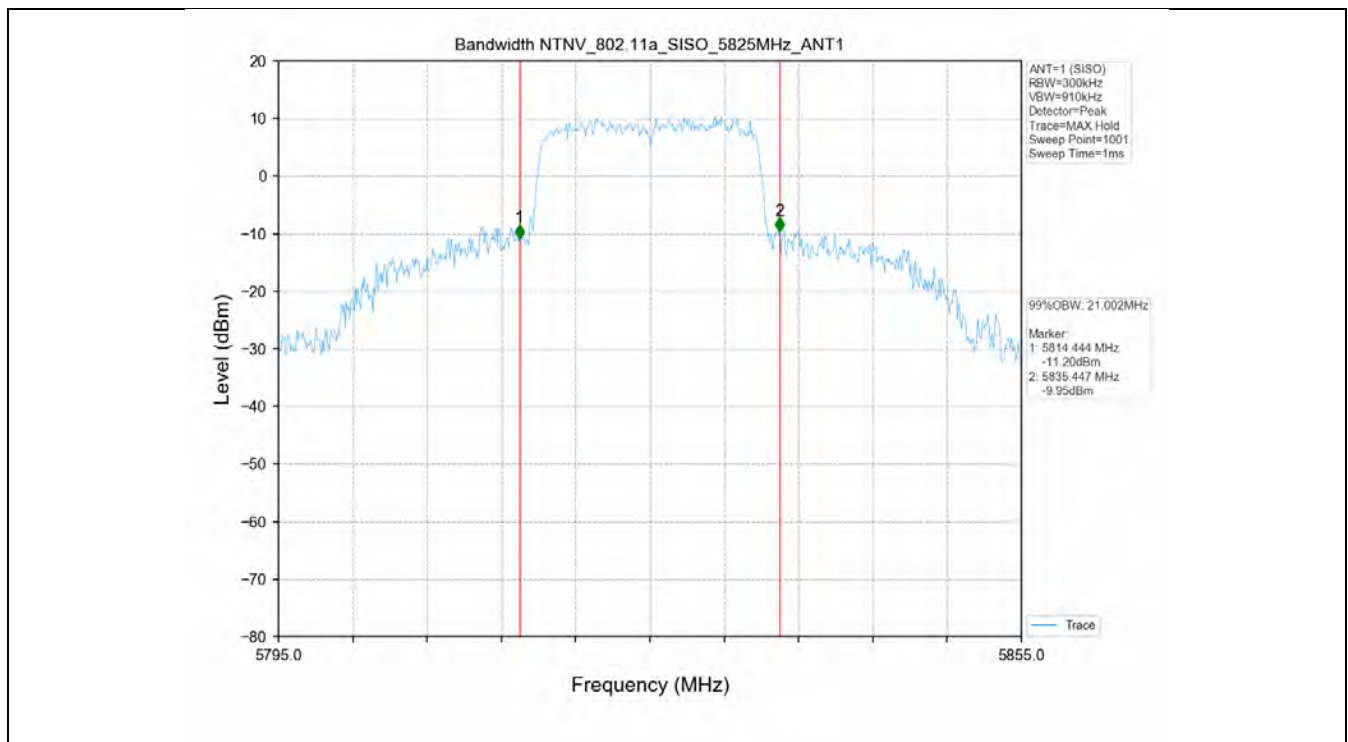
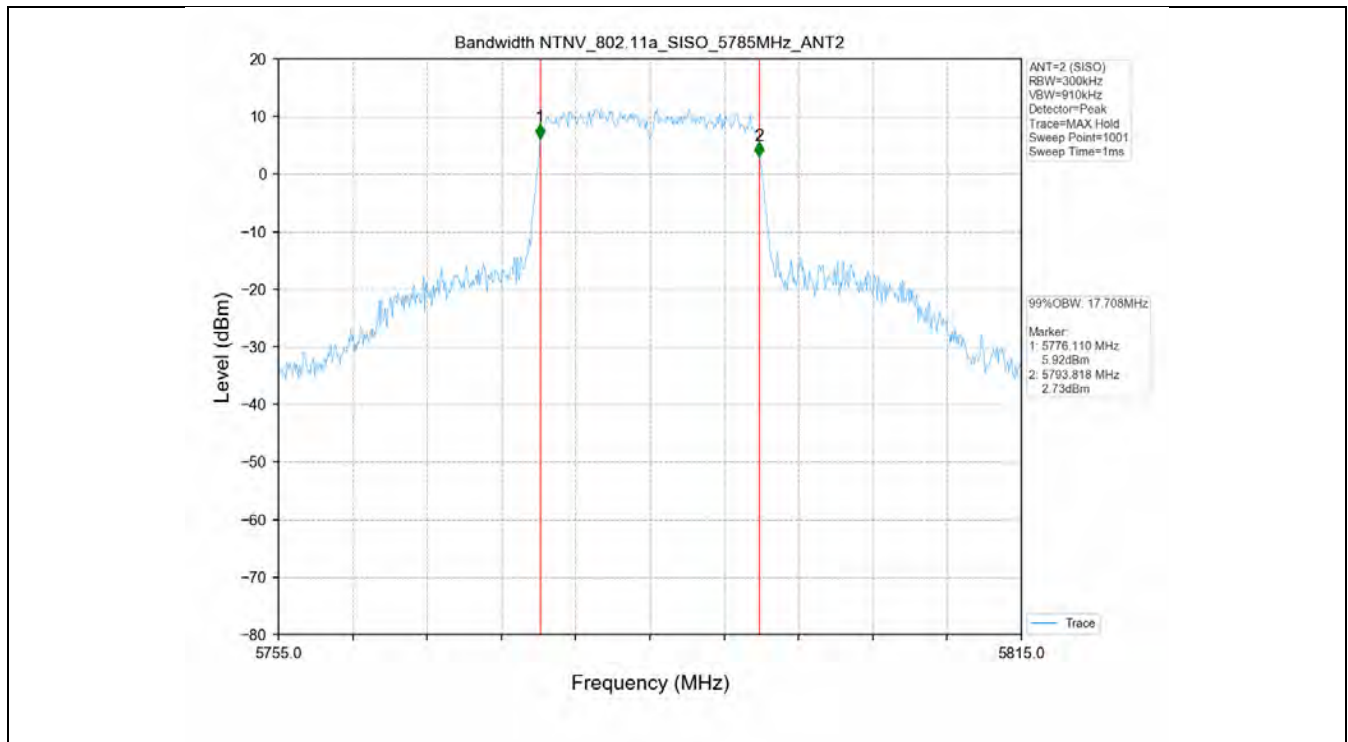






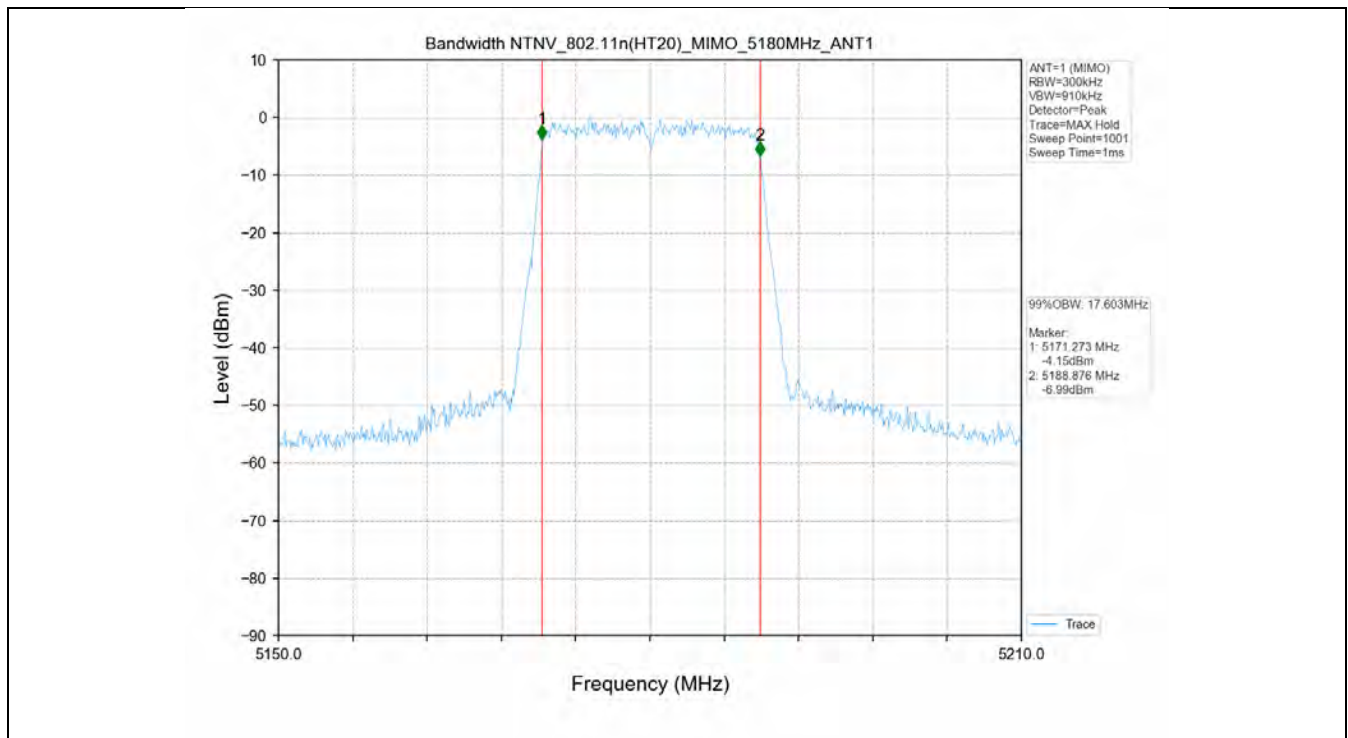
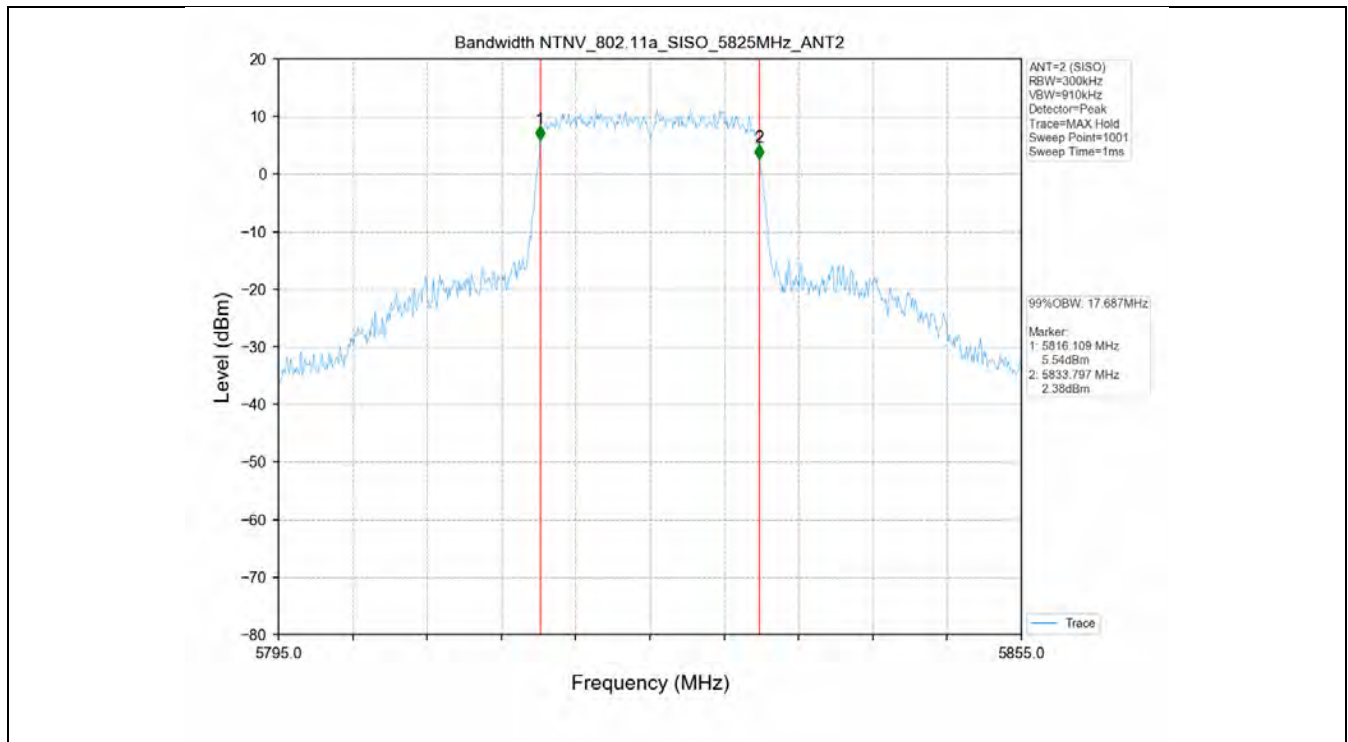


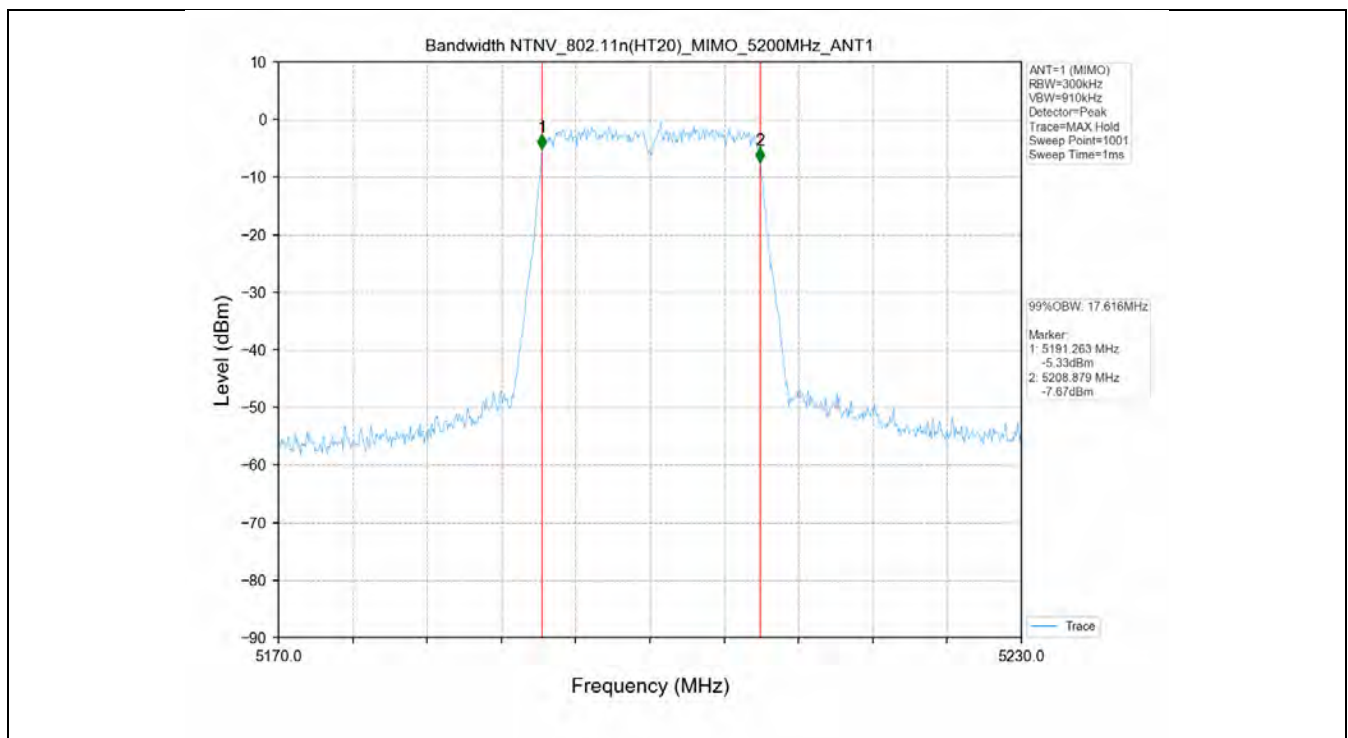
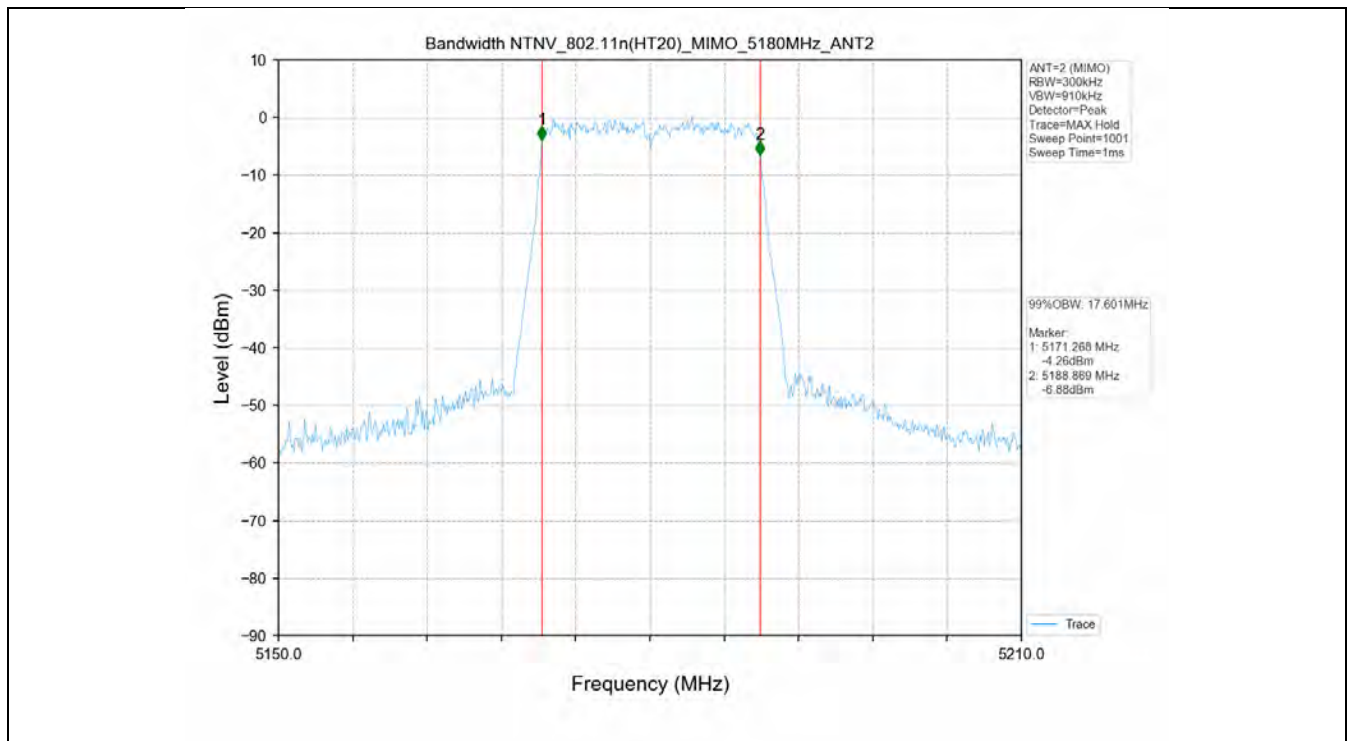
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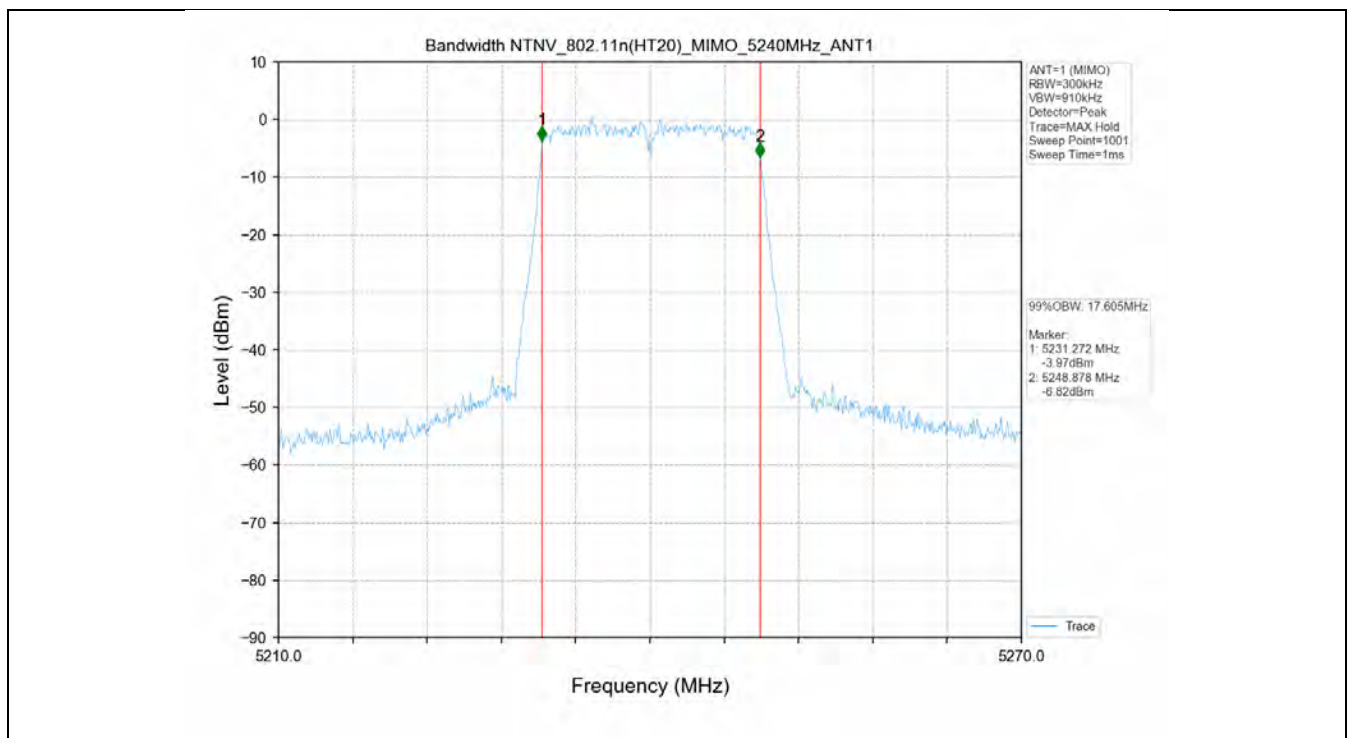
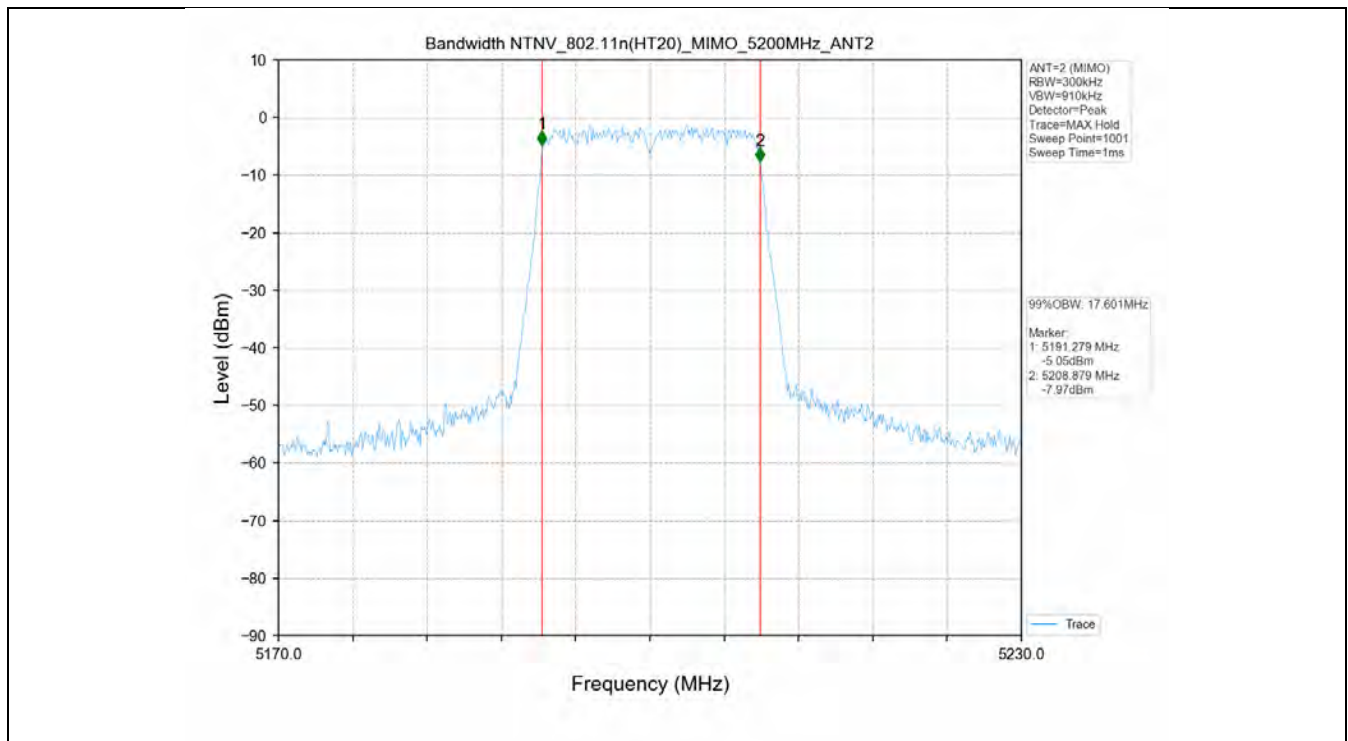


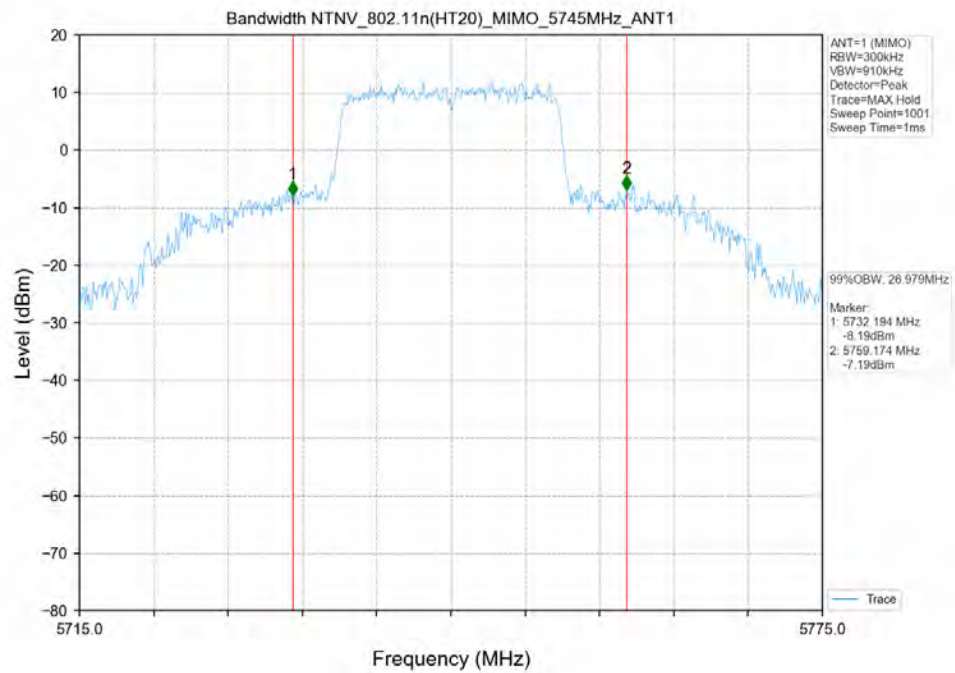
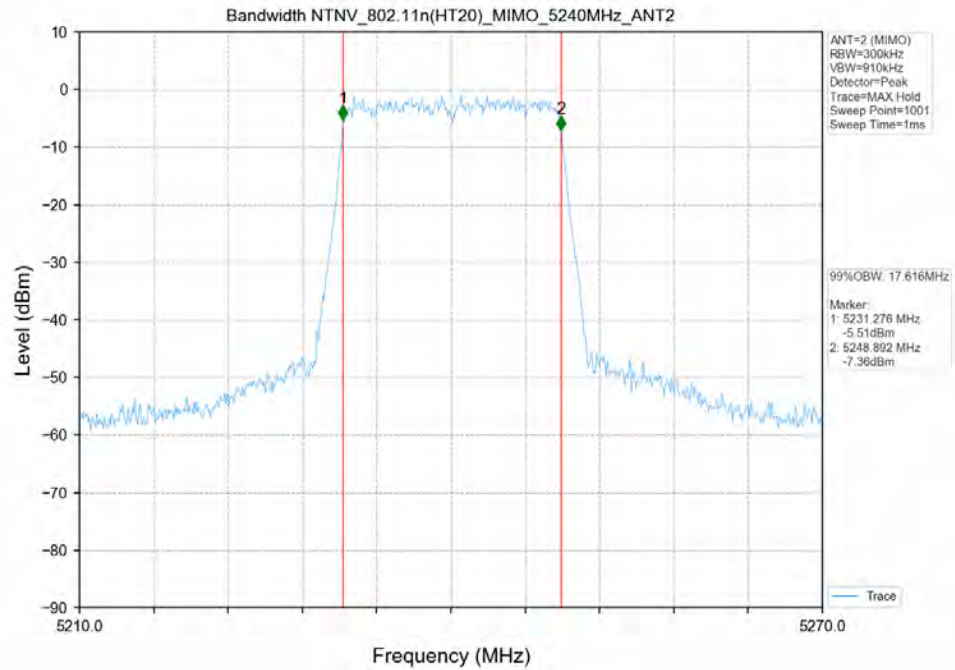


SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



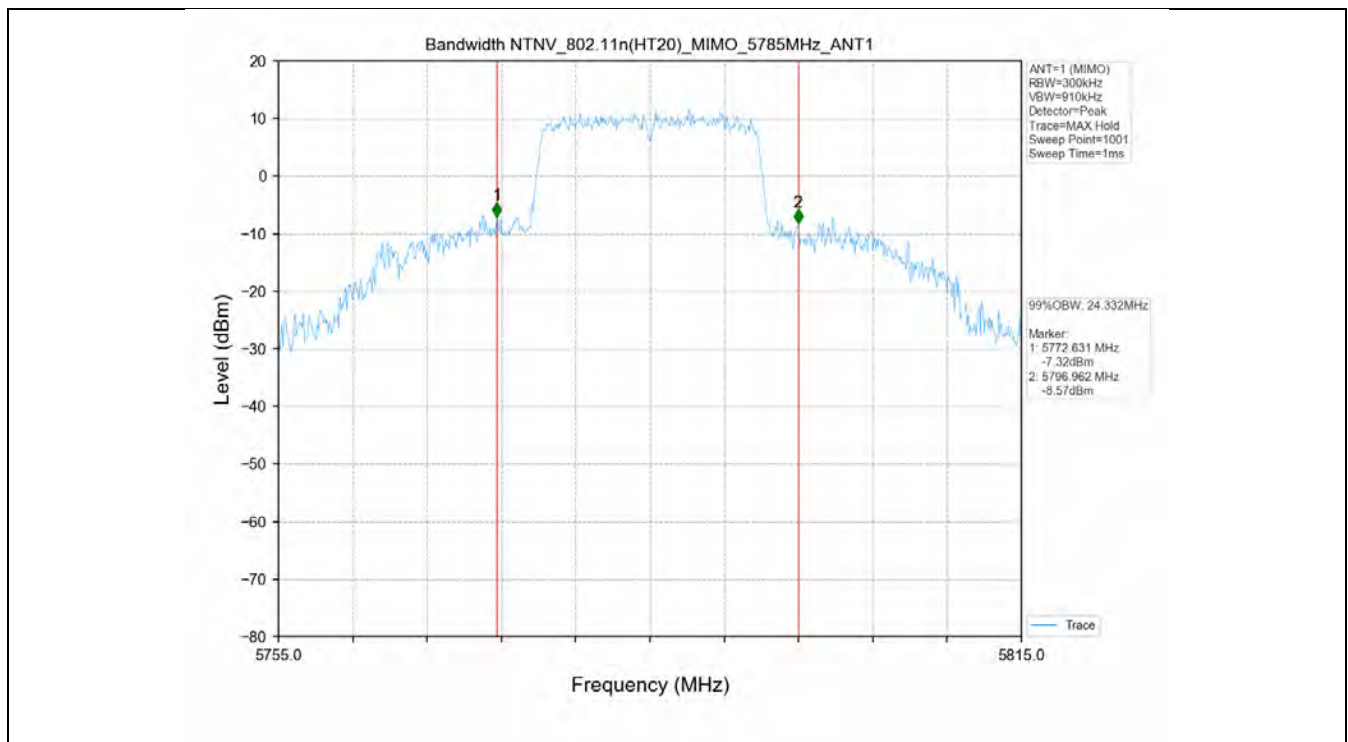
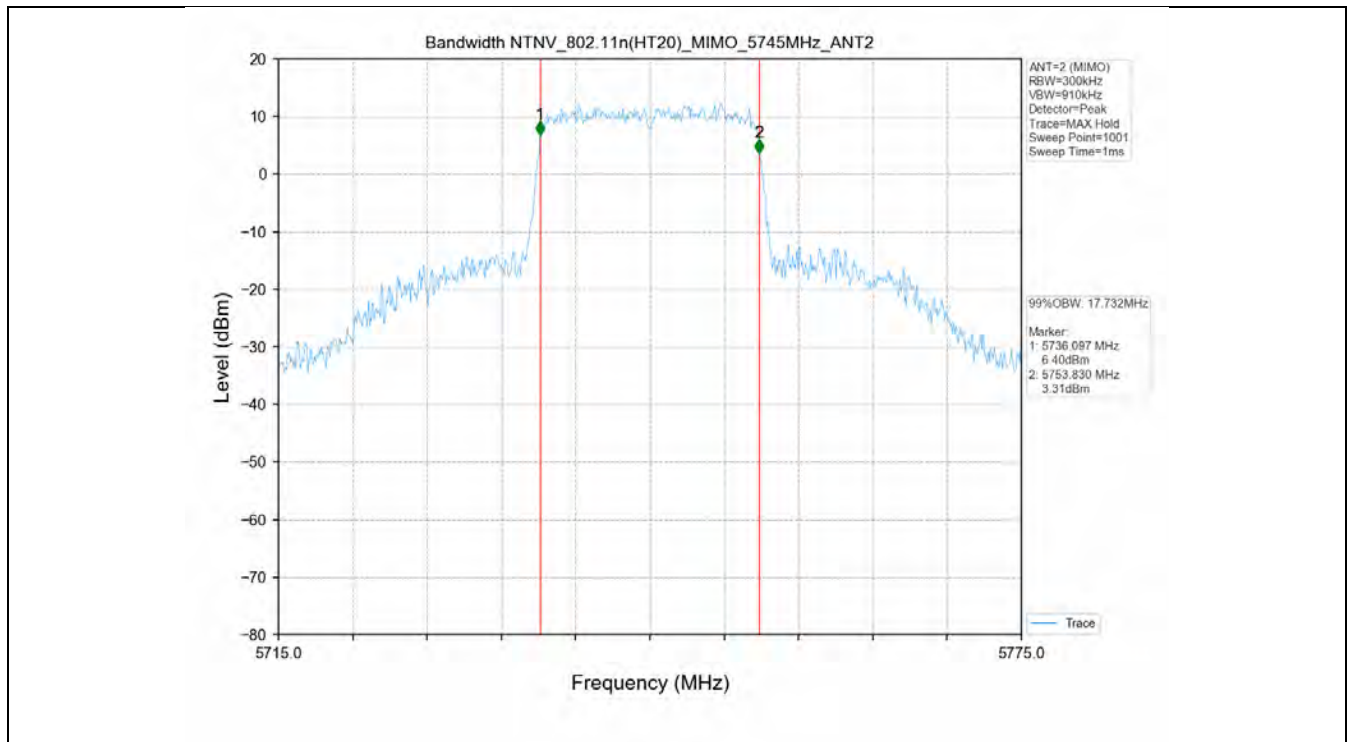






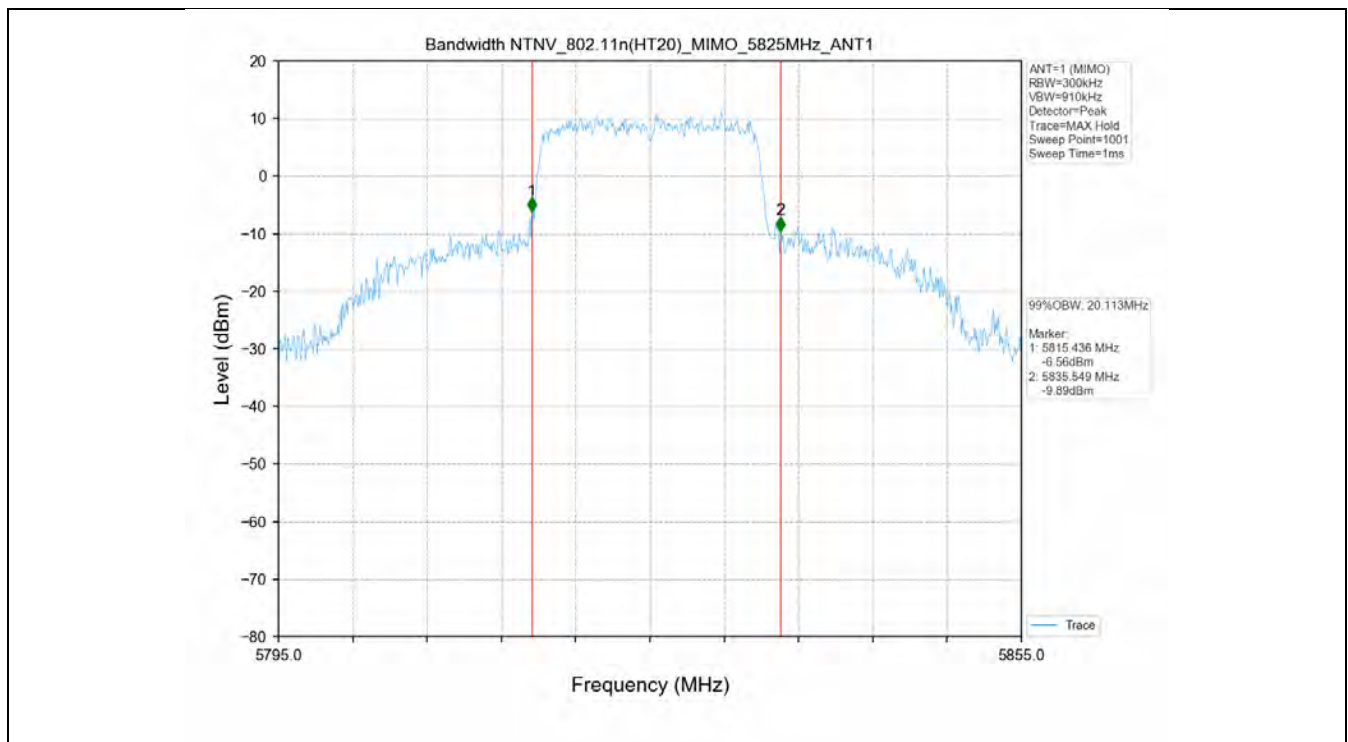
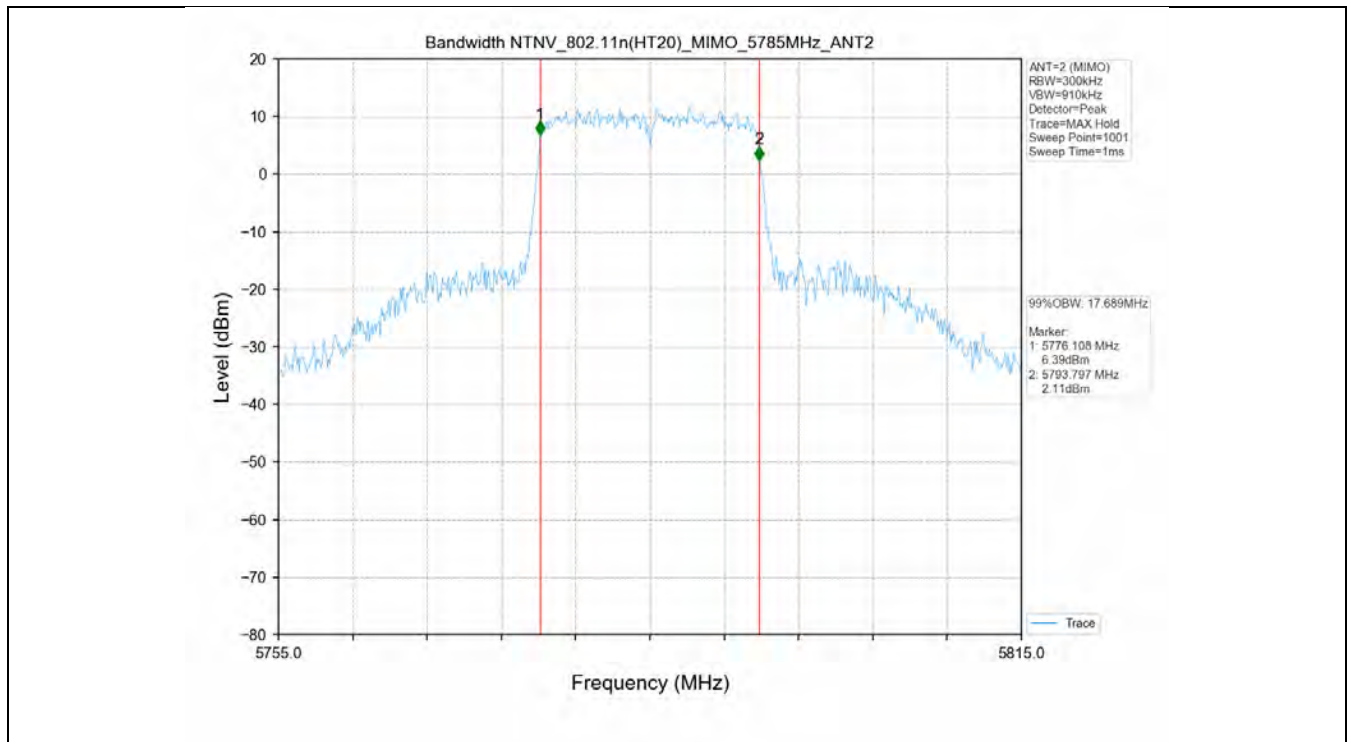


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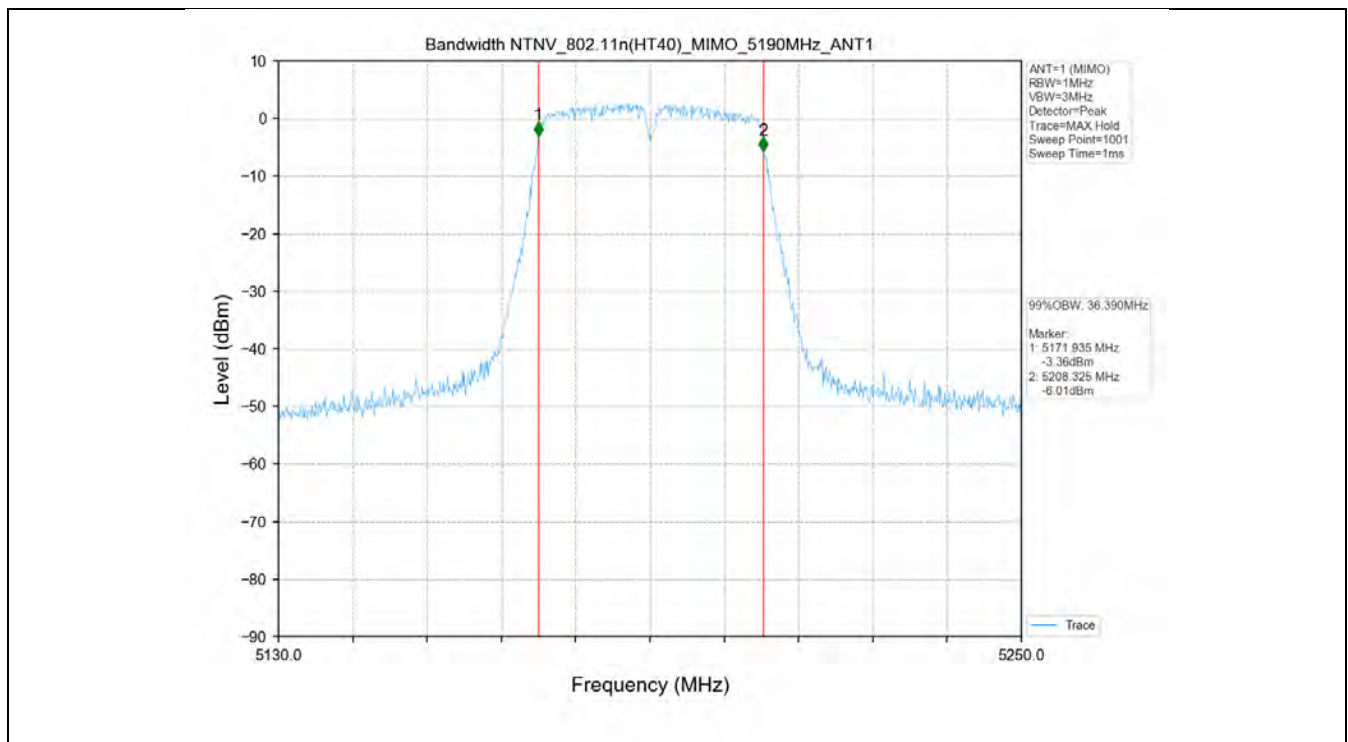
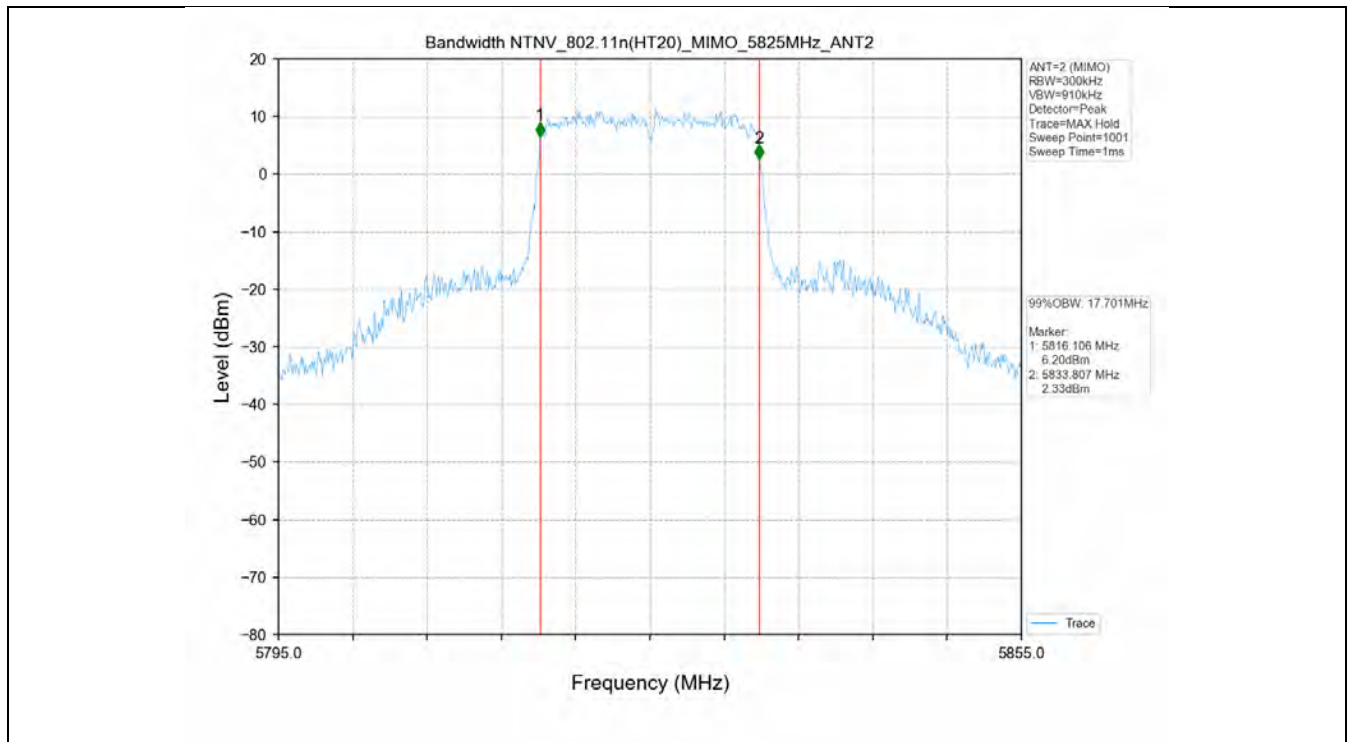


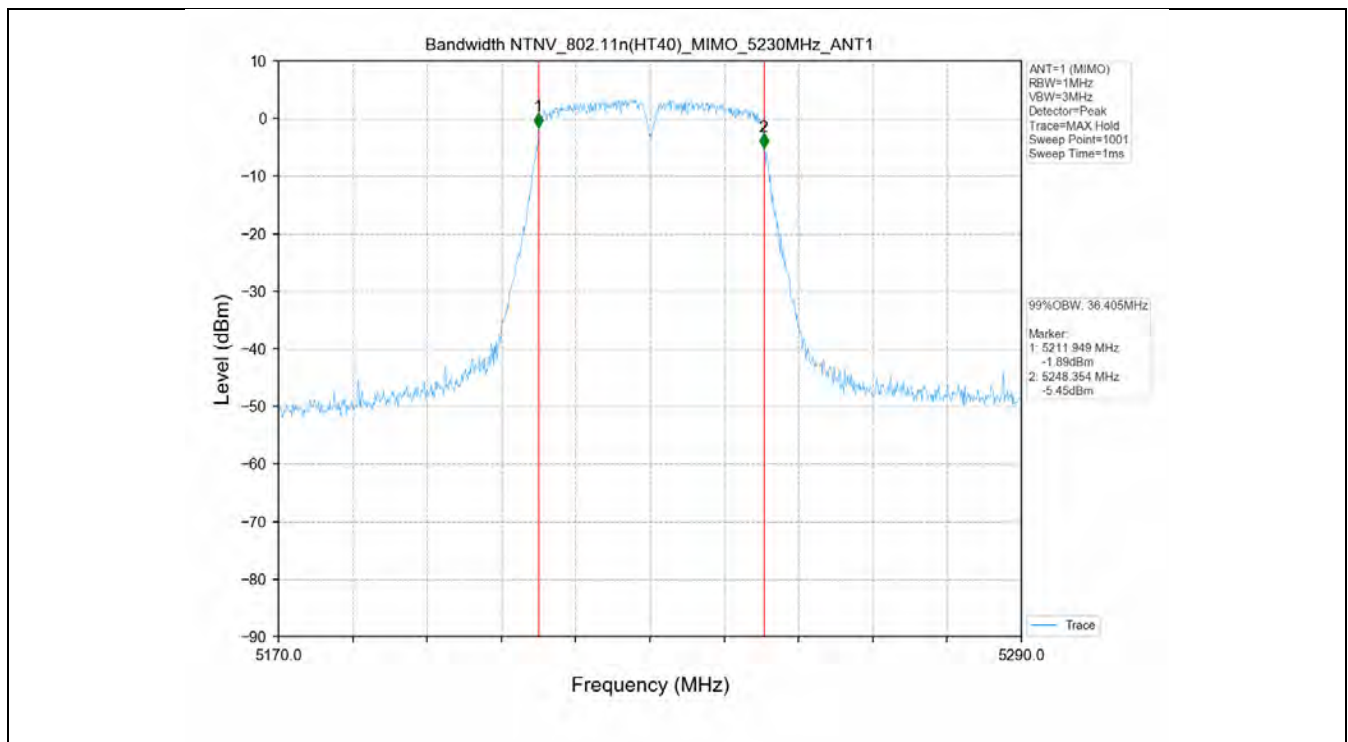
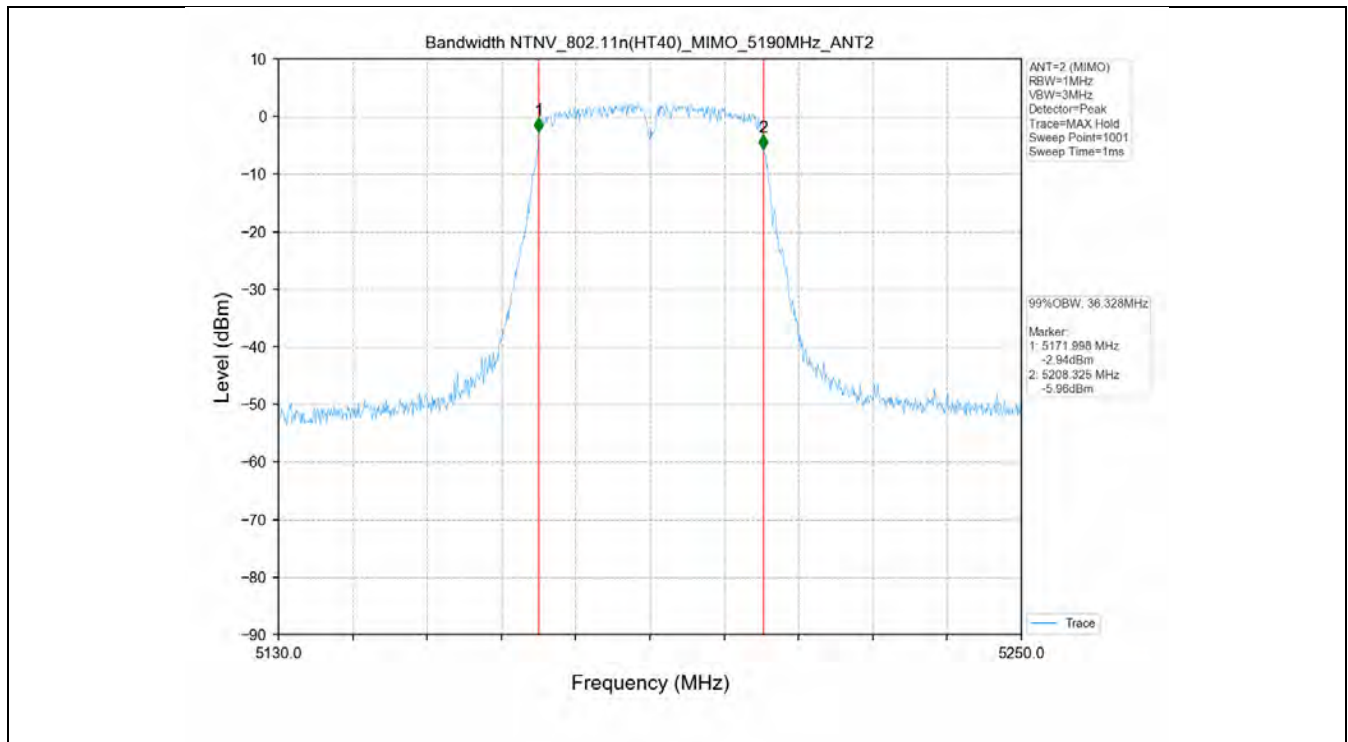
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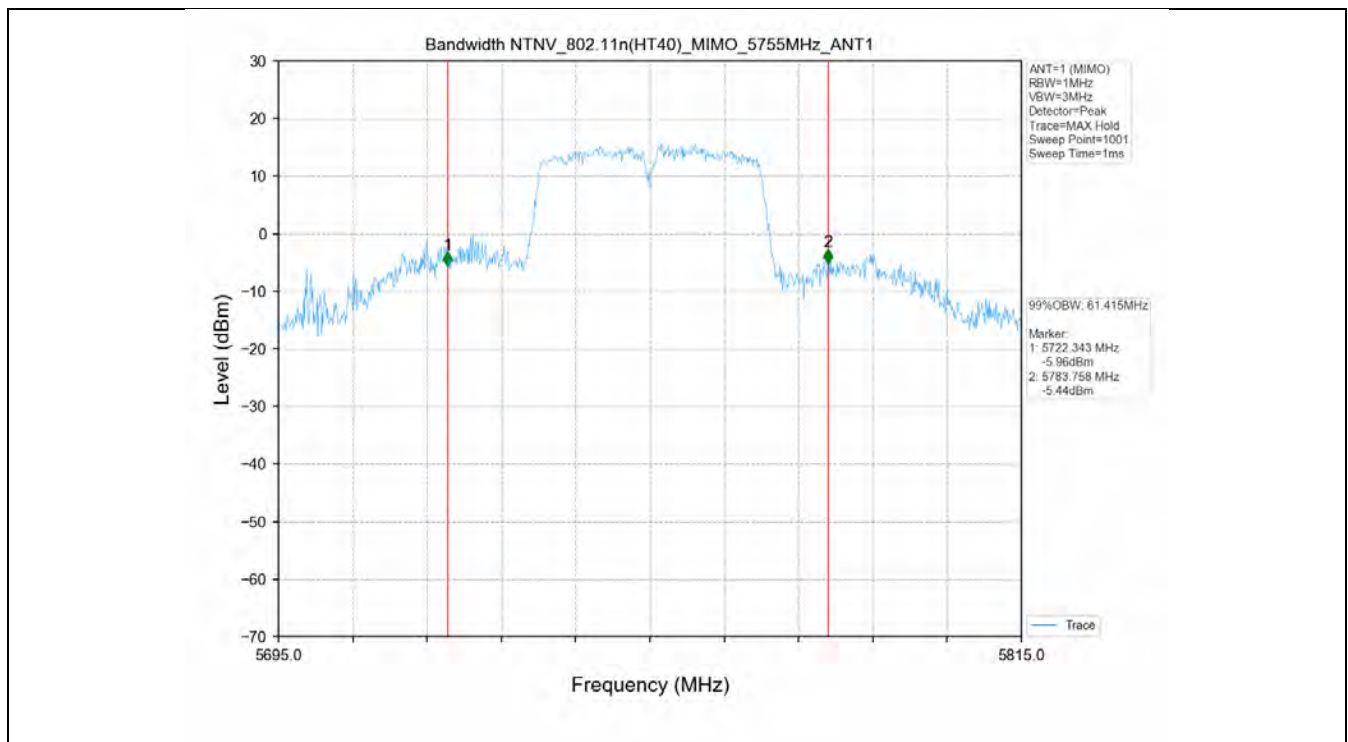
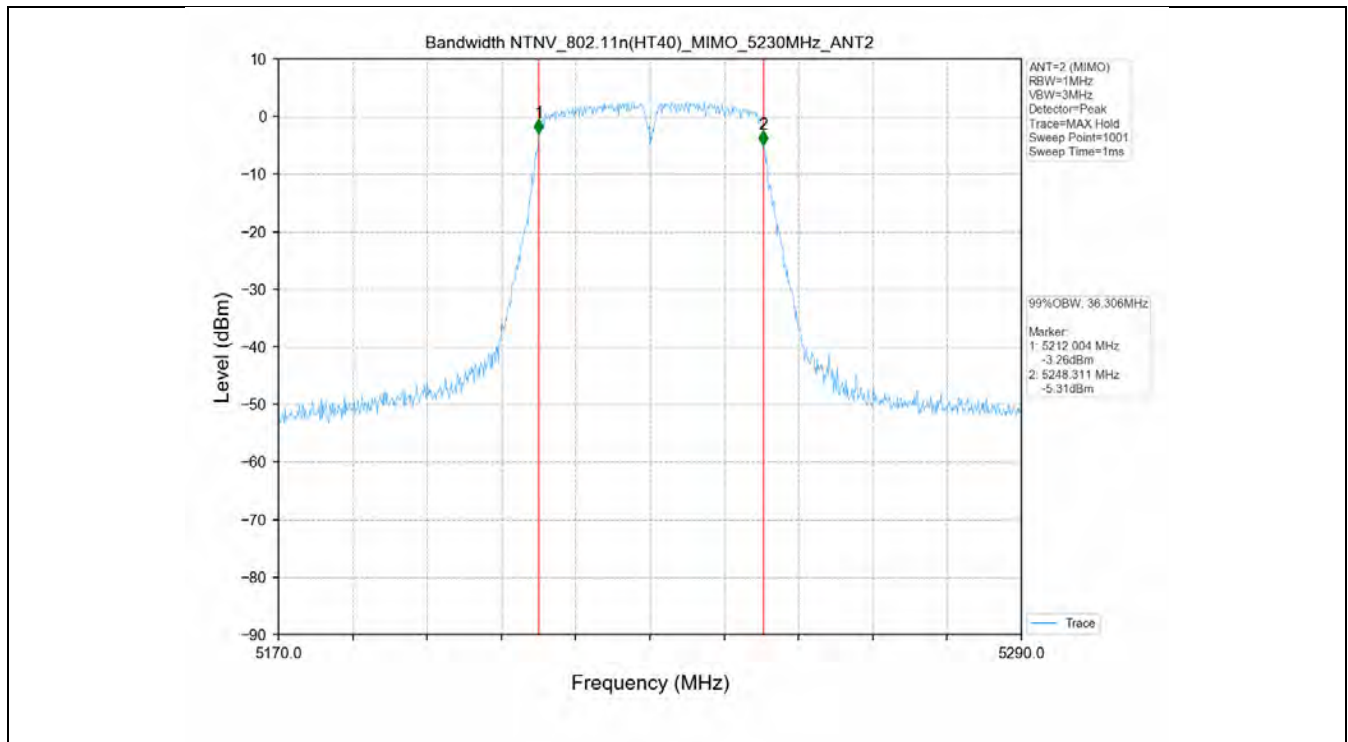


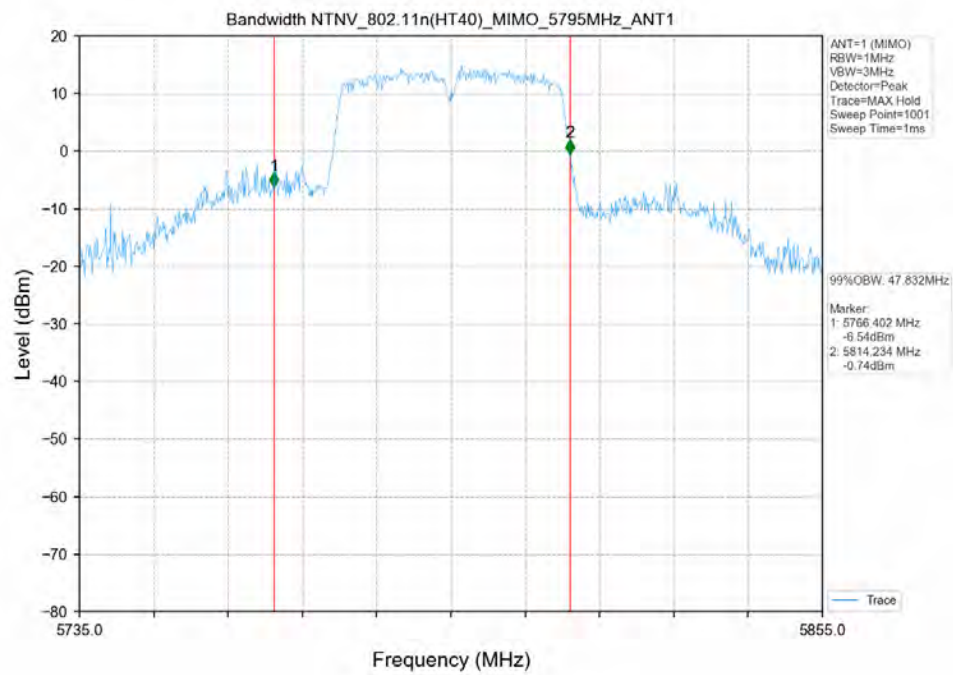
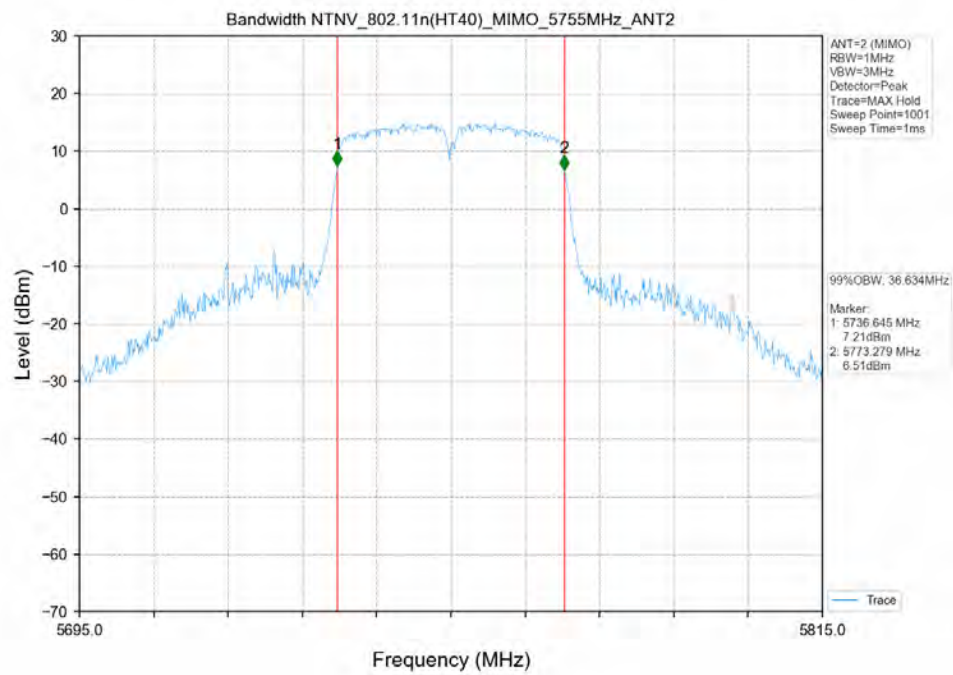


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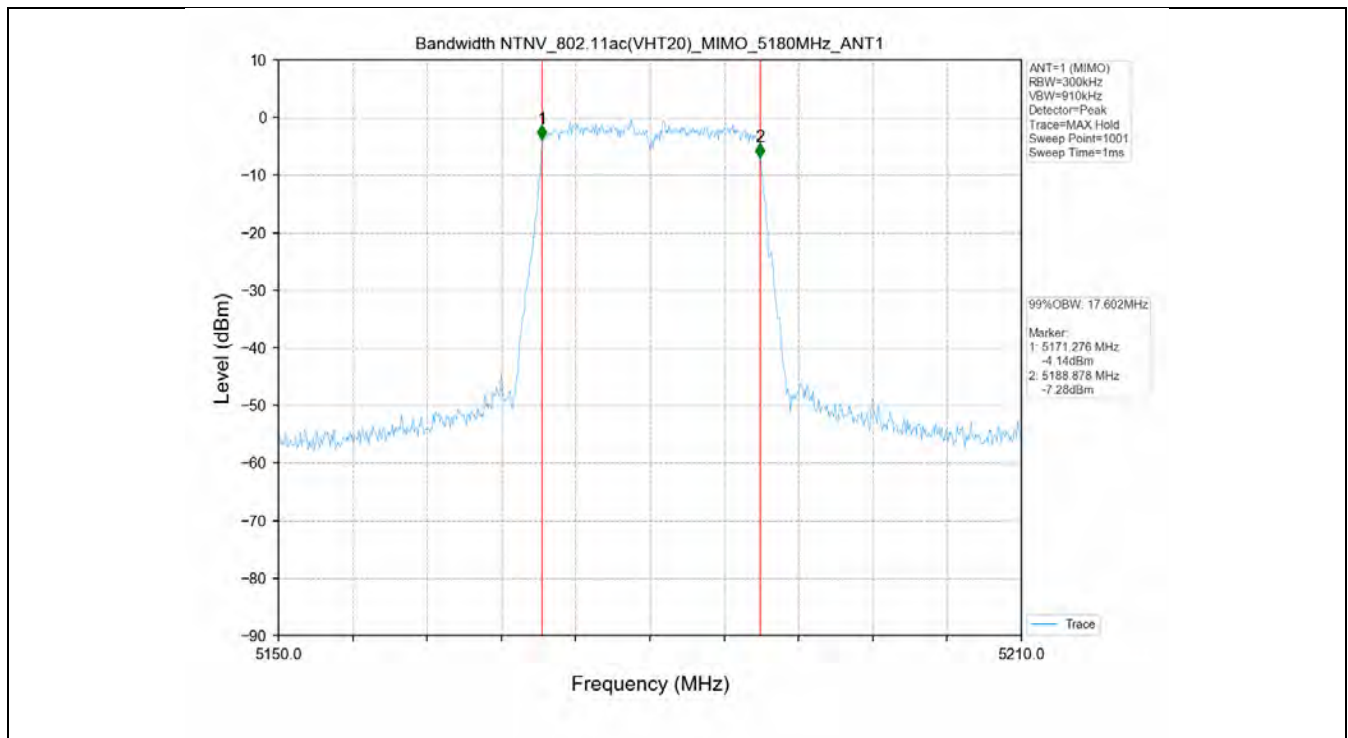
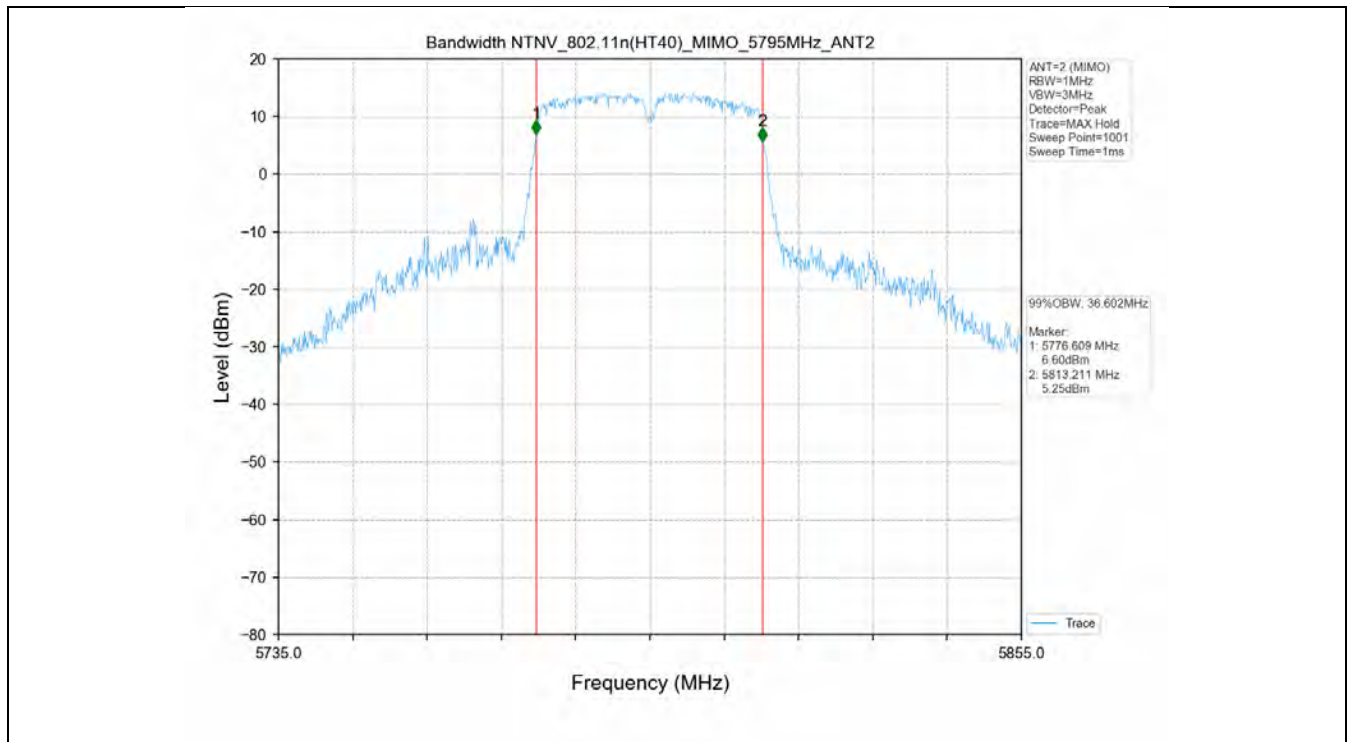


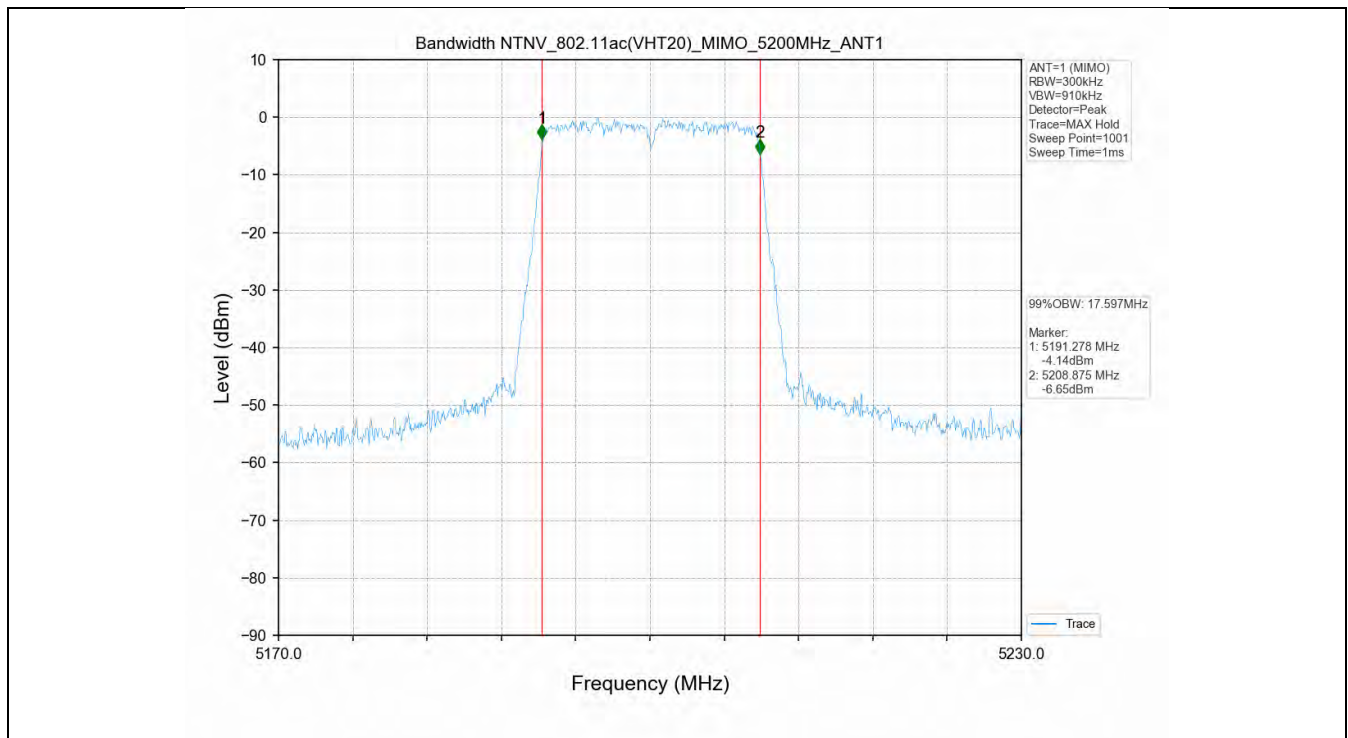
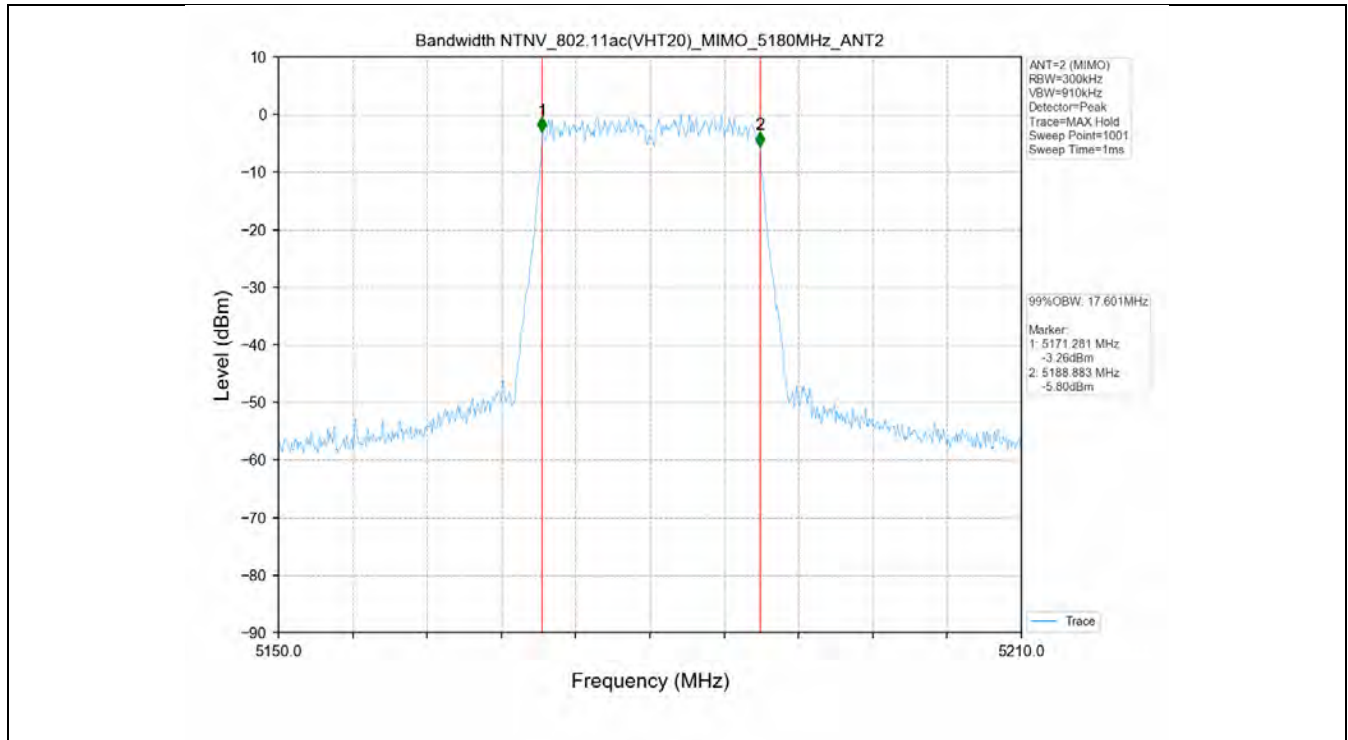


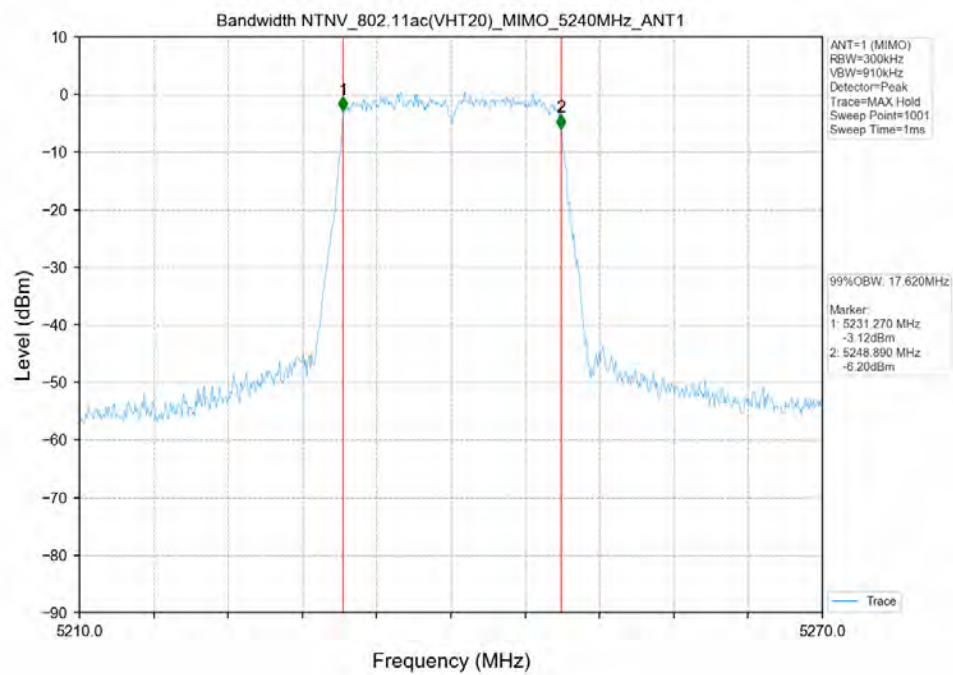
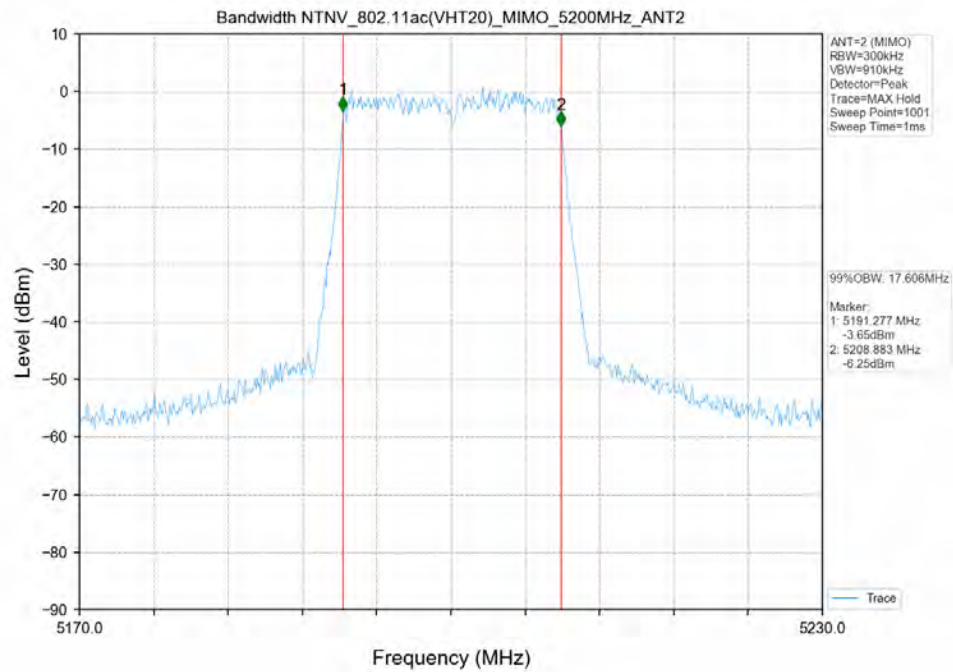


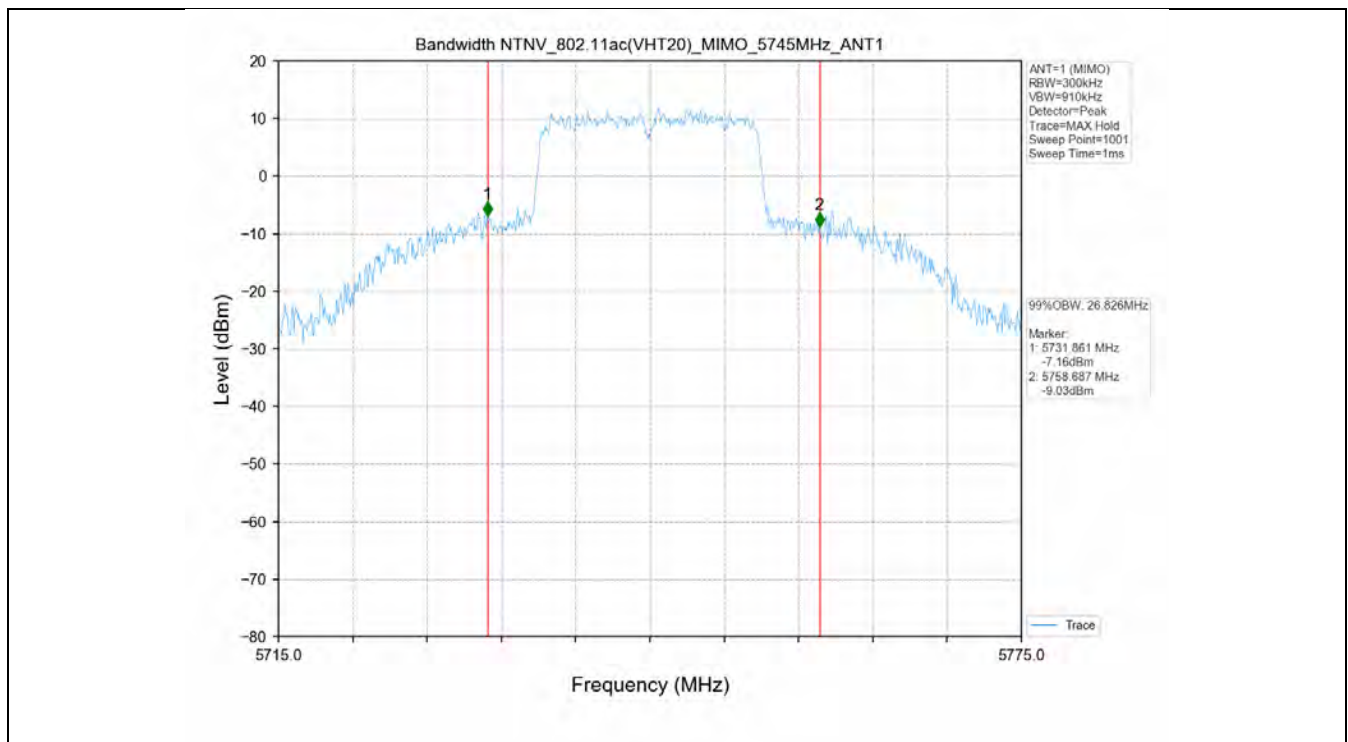
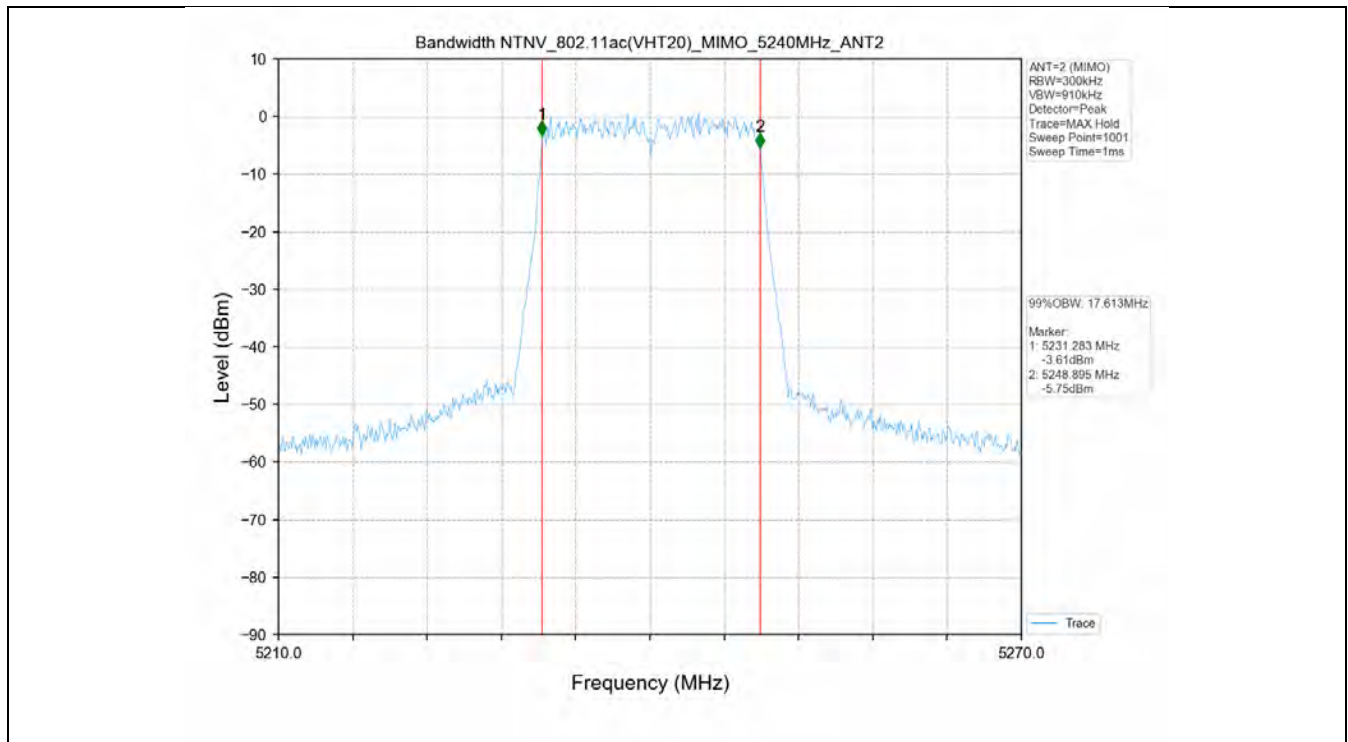


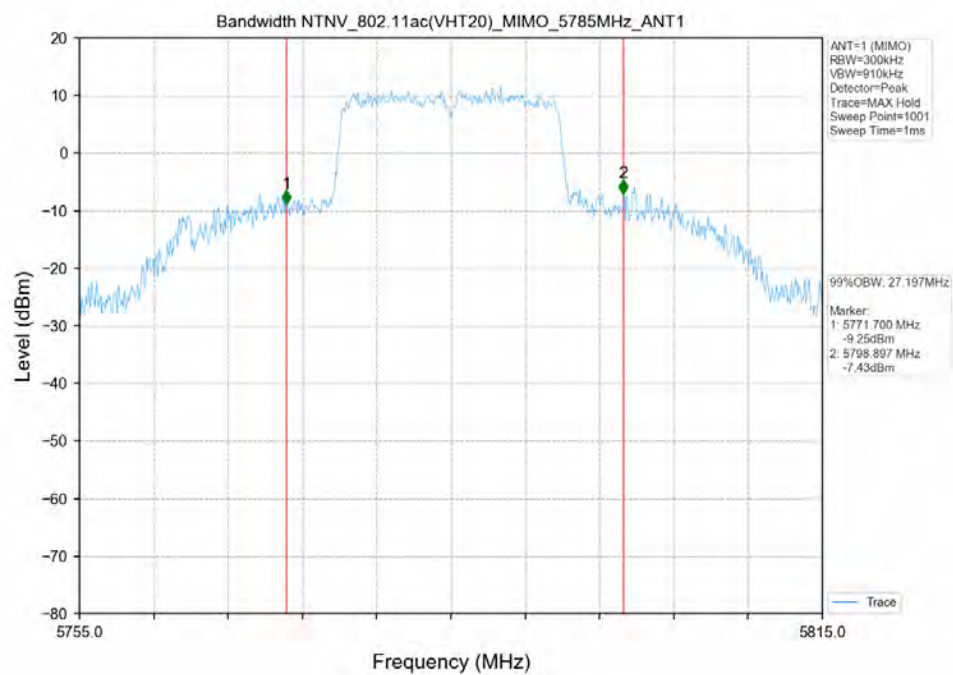
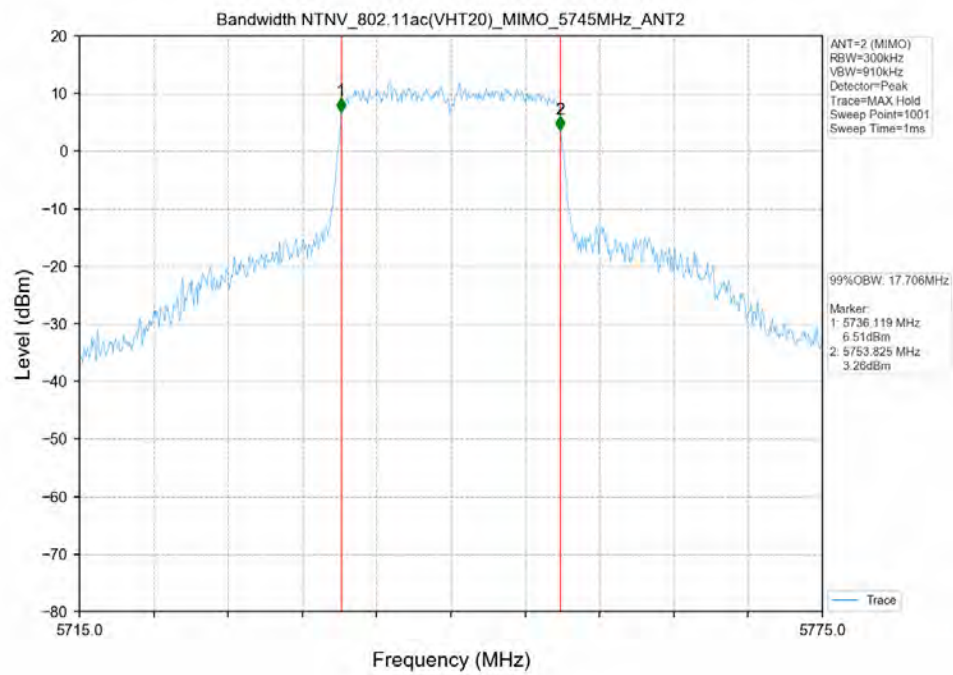
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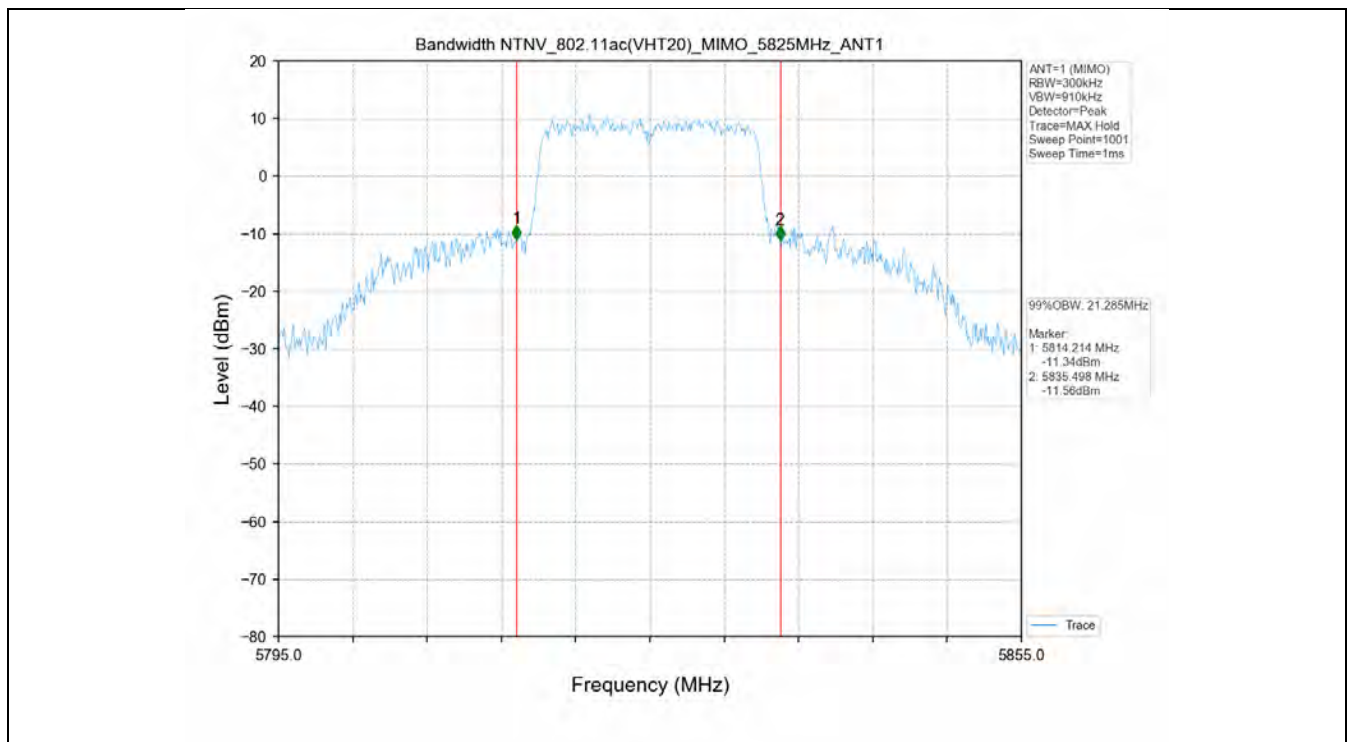
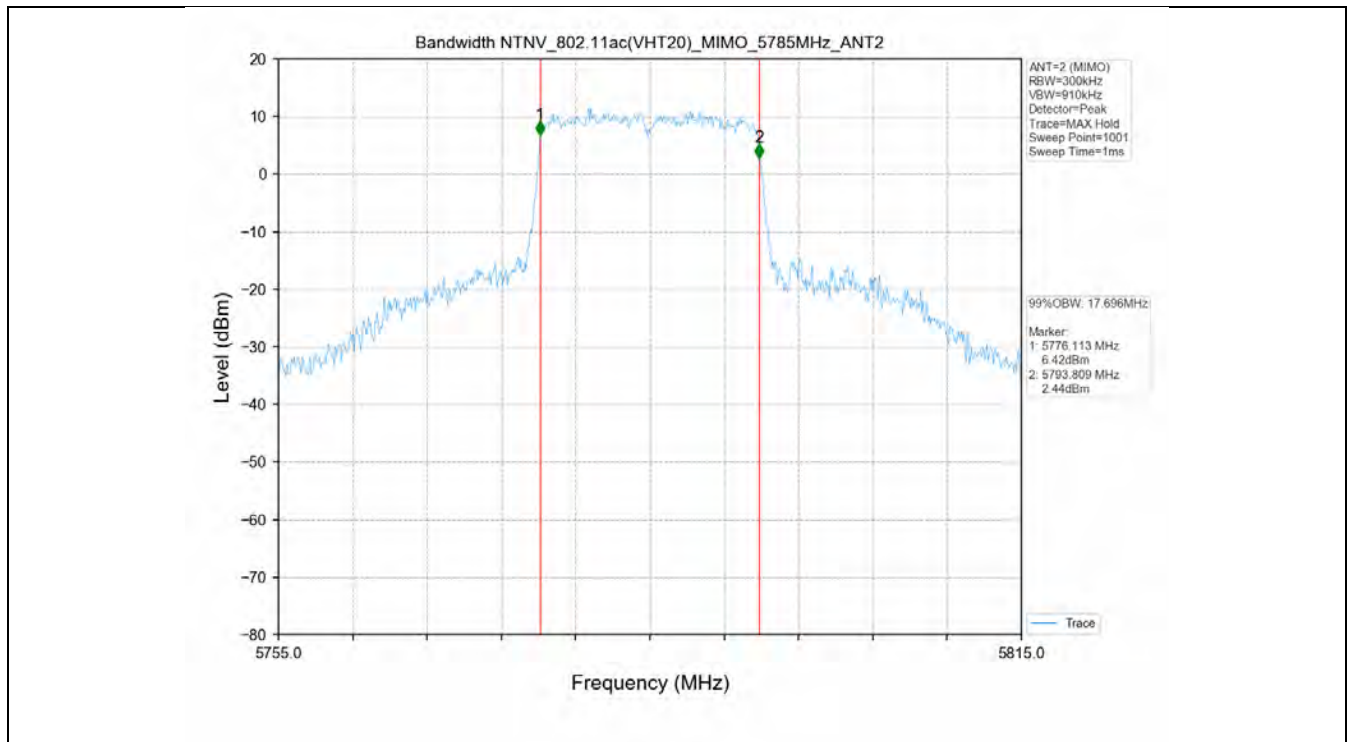


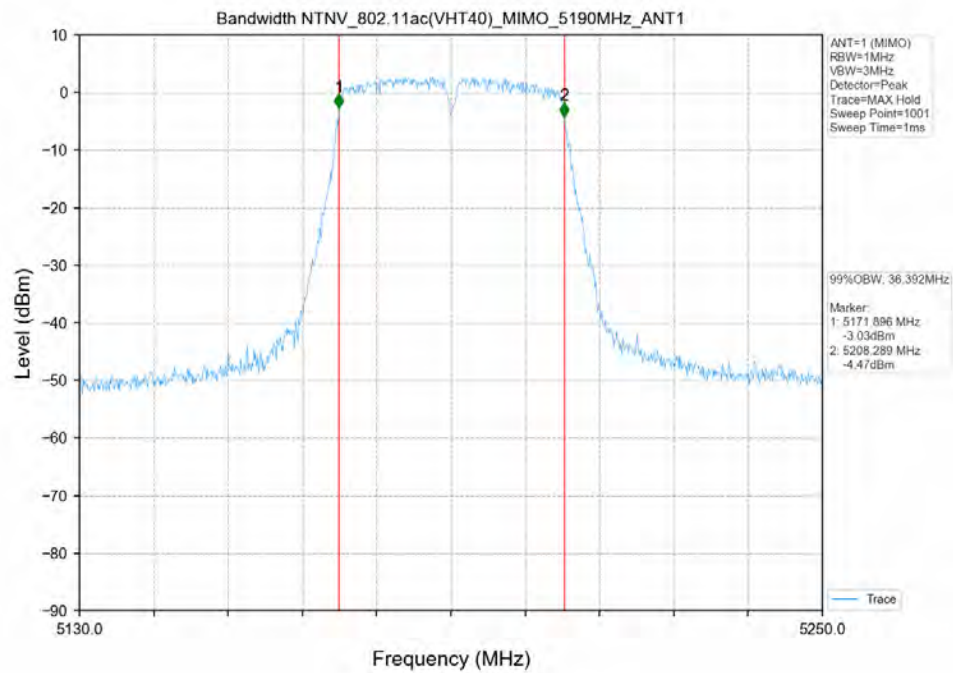
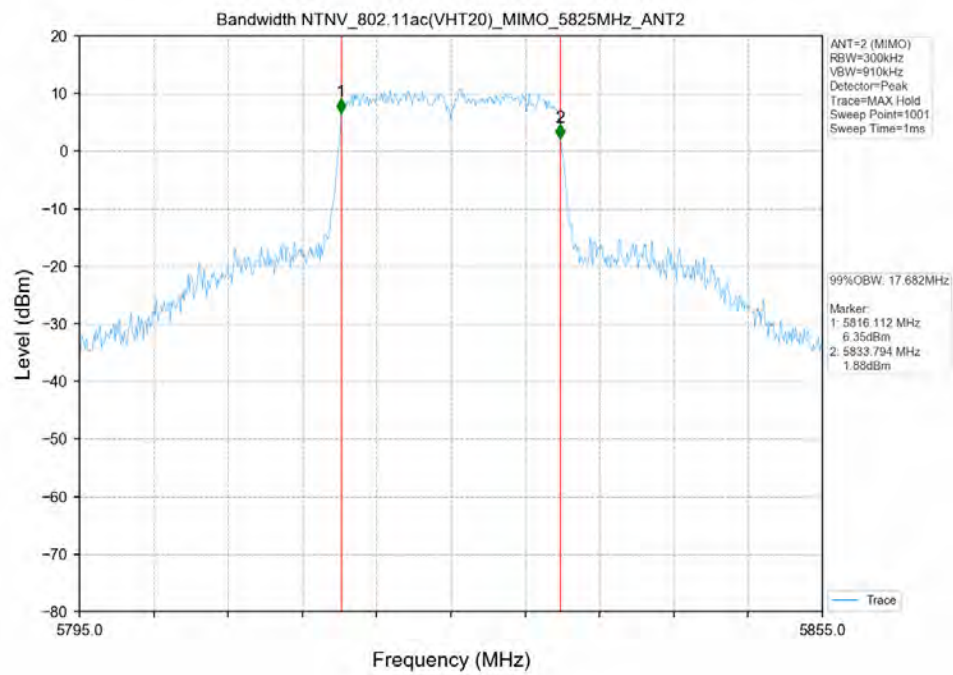


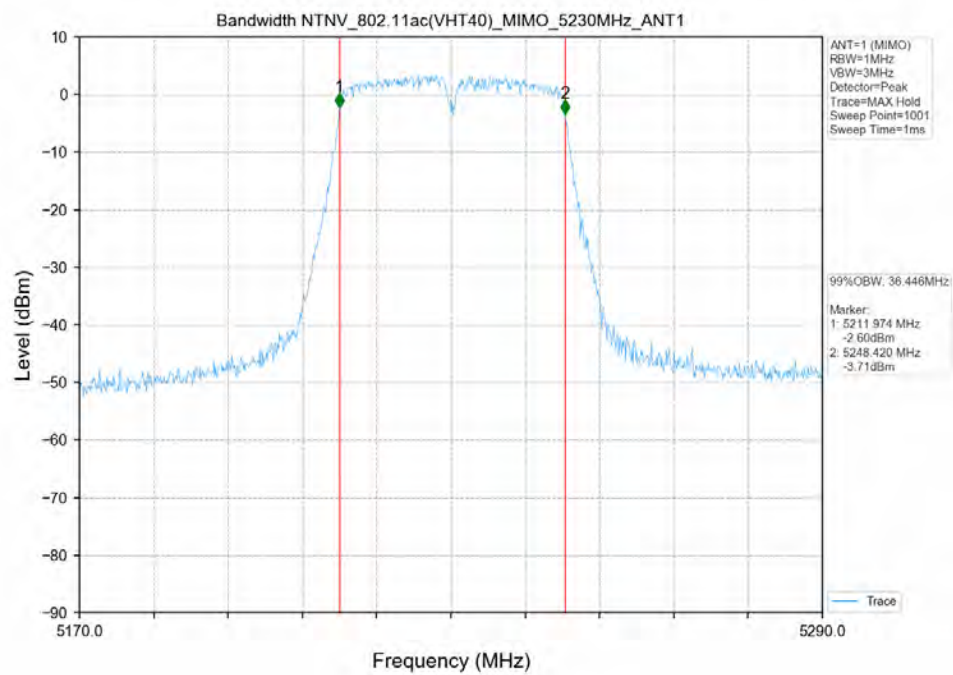
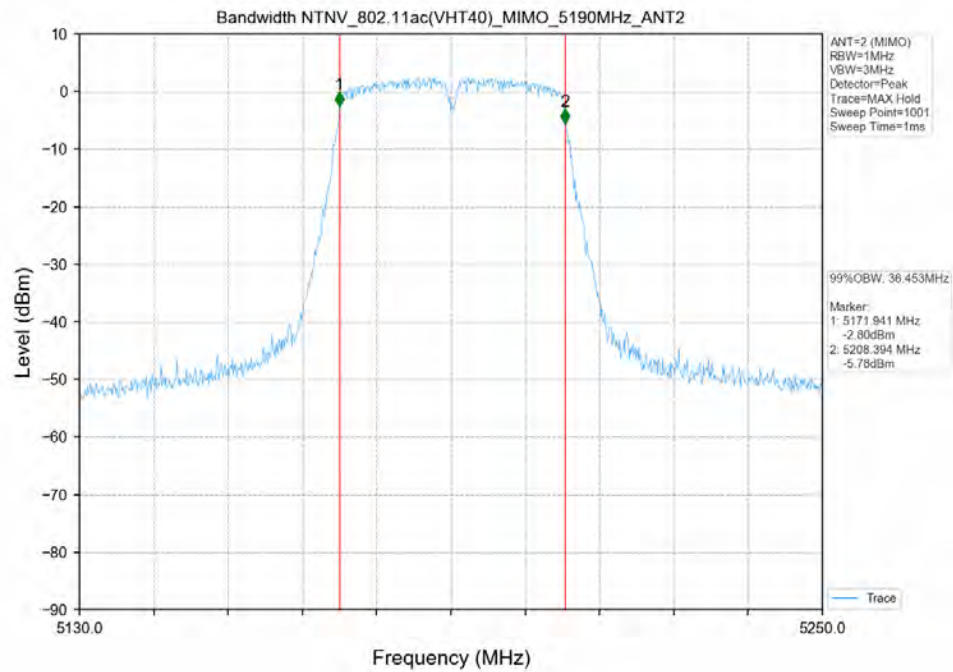




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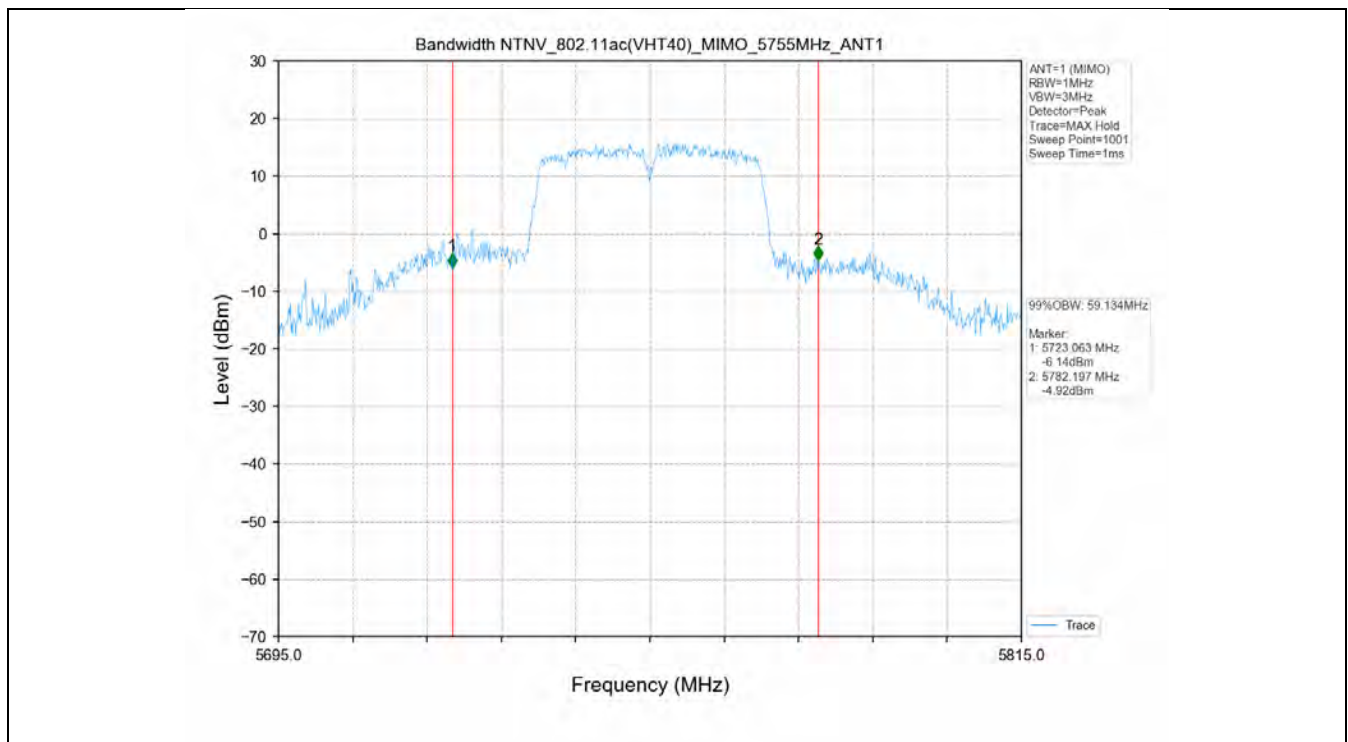
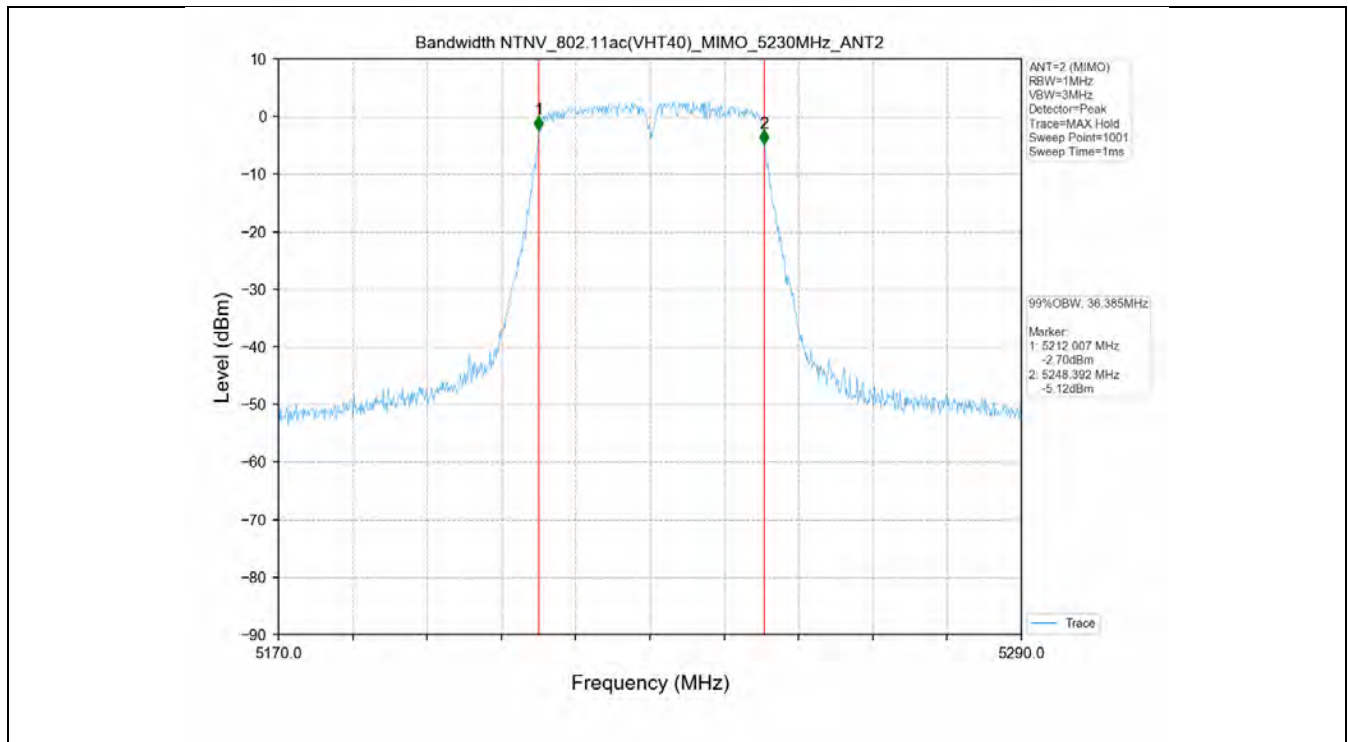


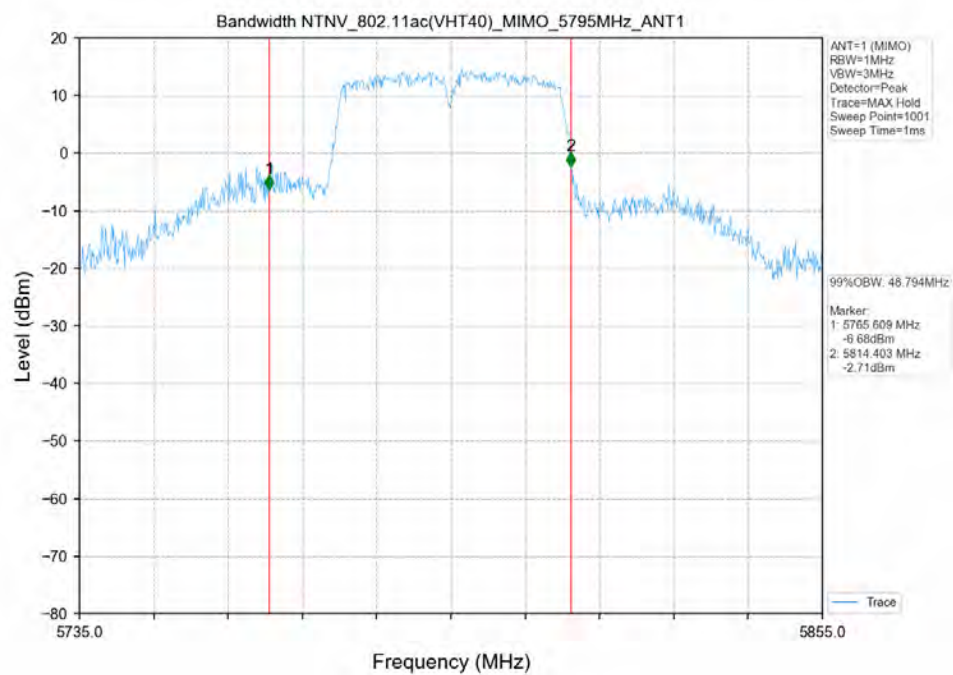
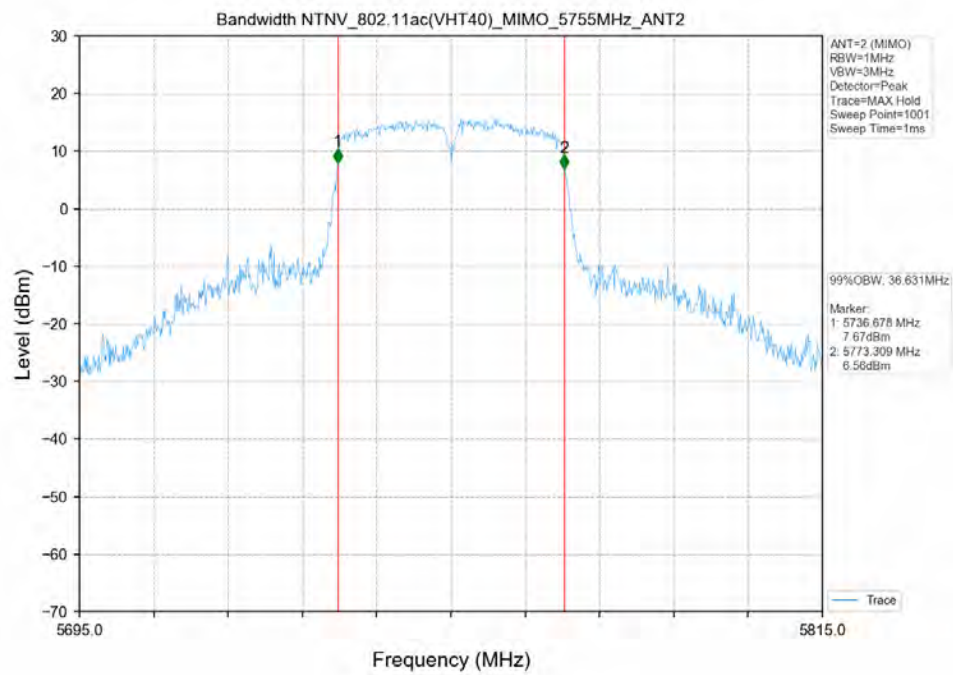






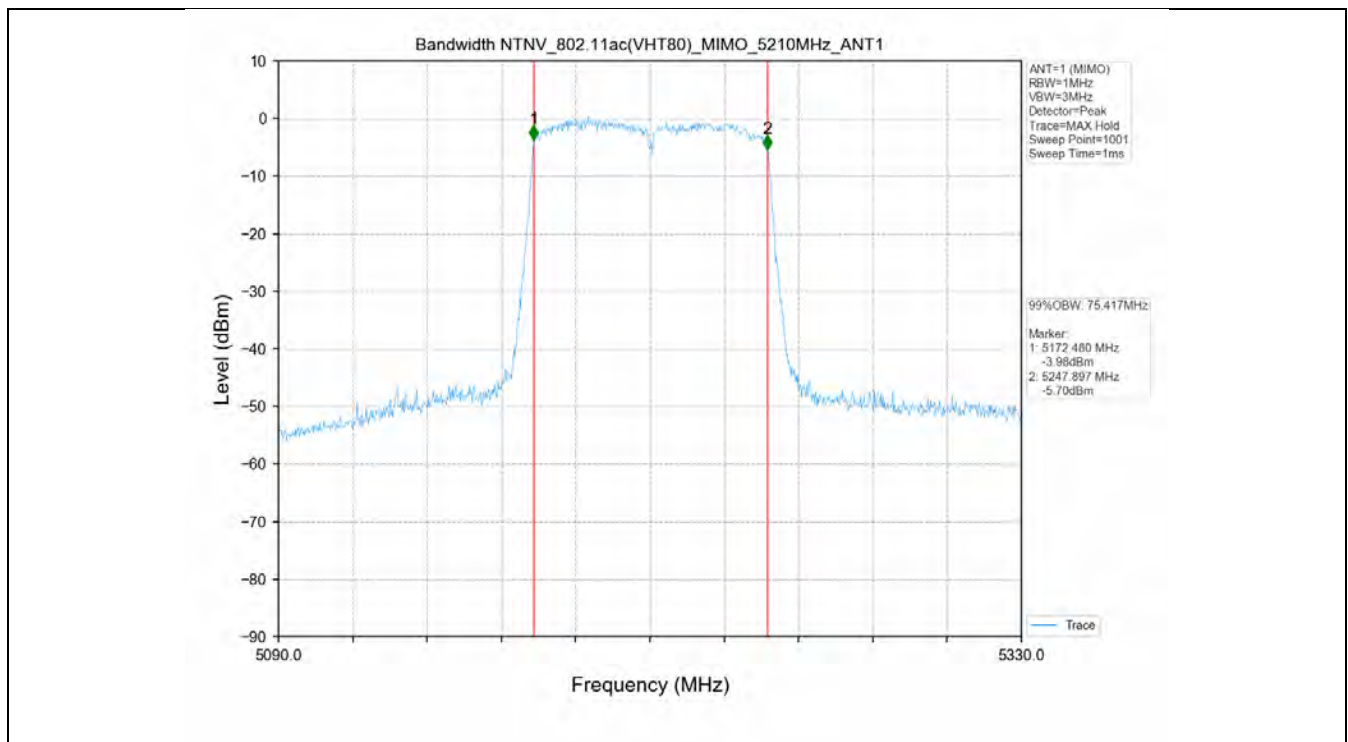
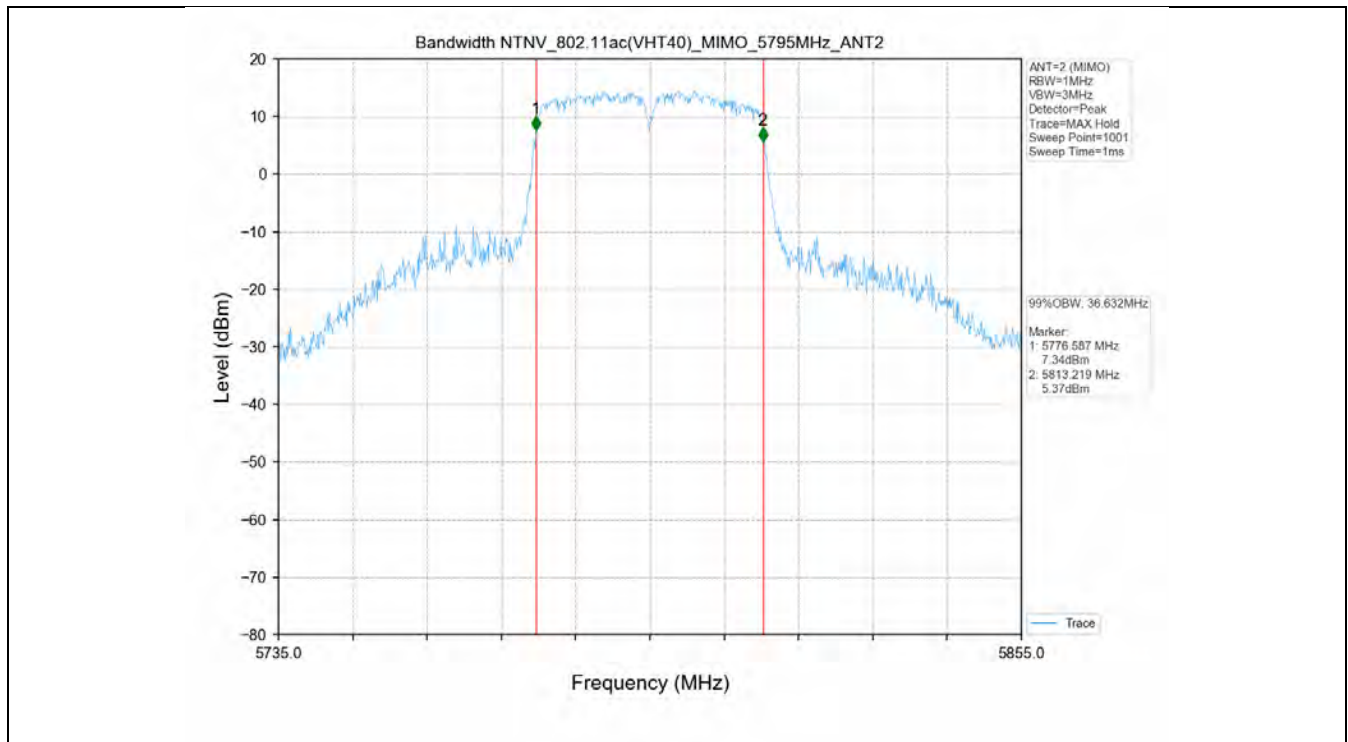
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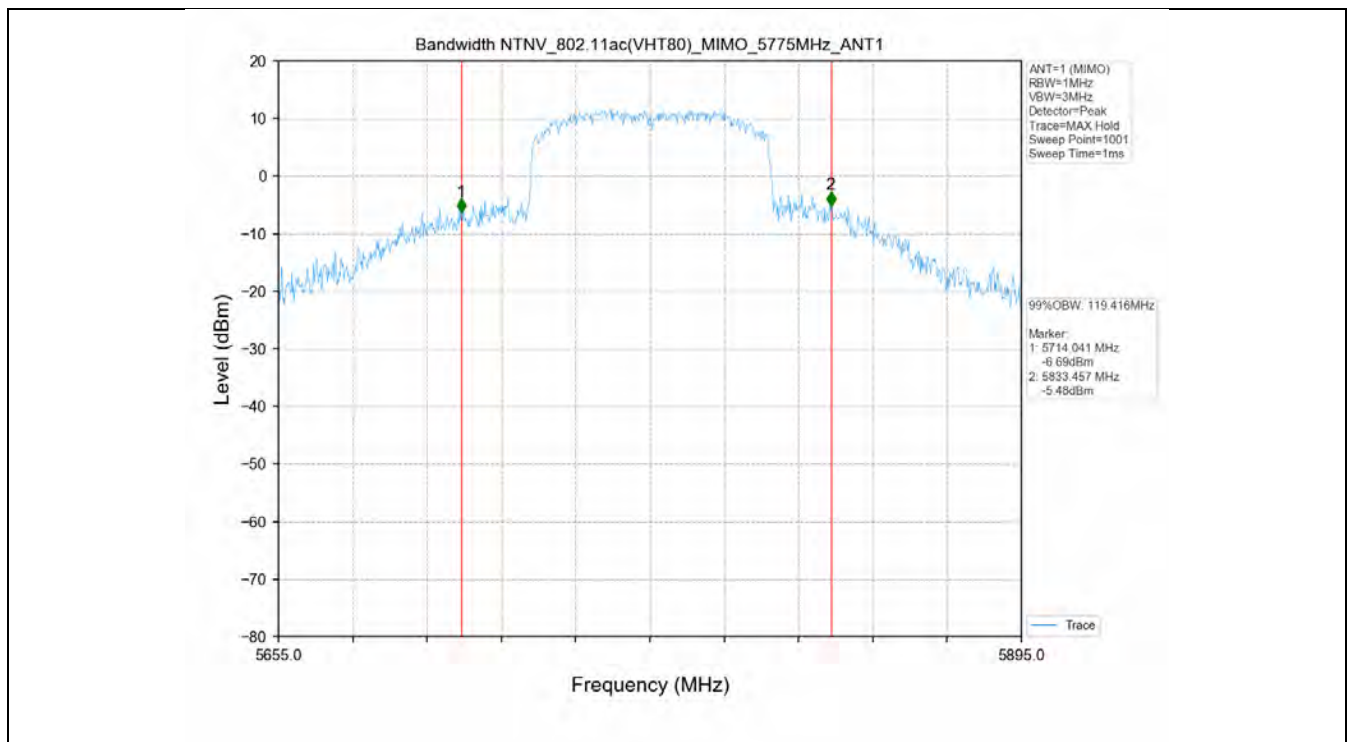
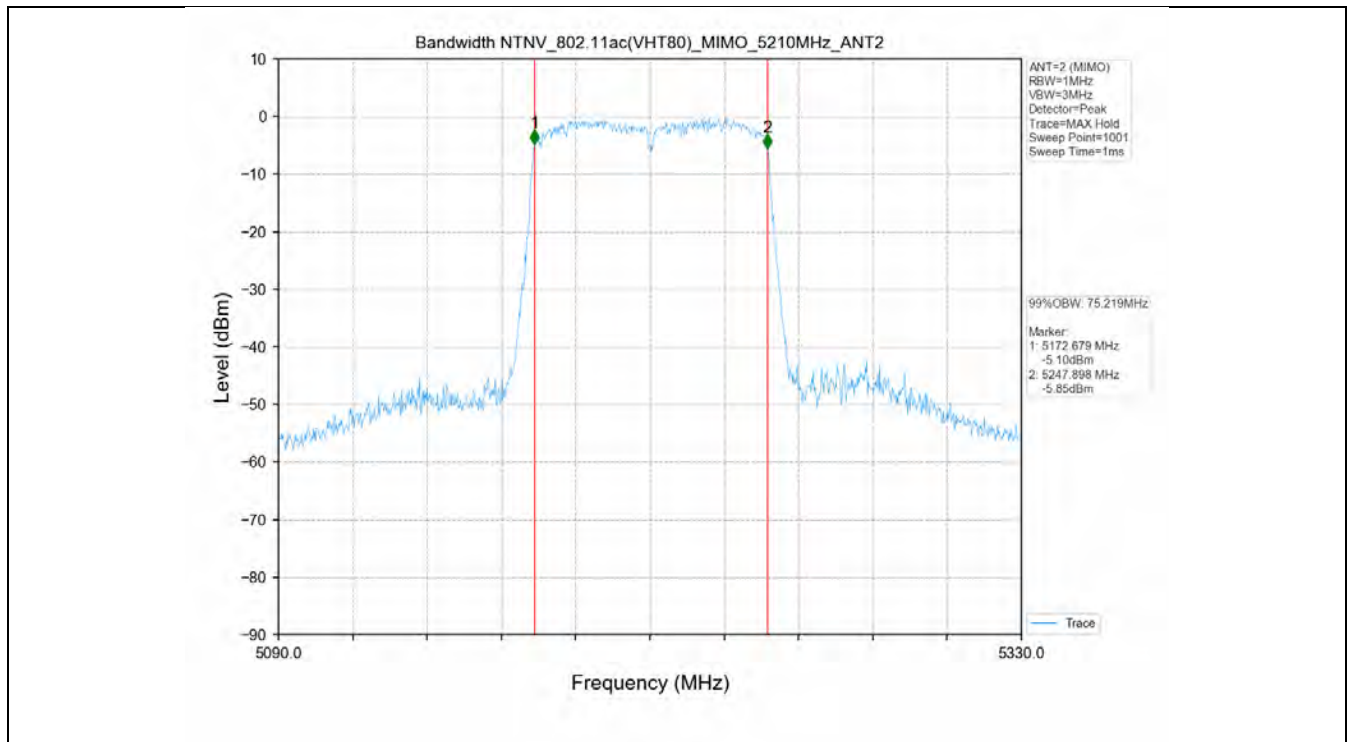


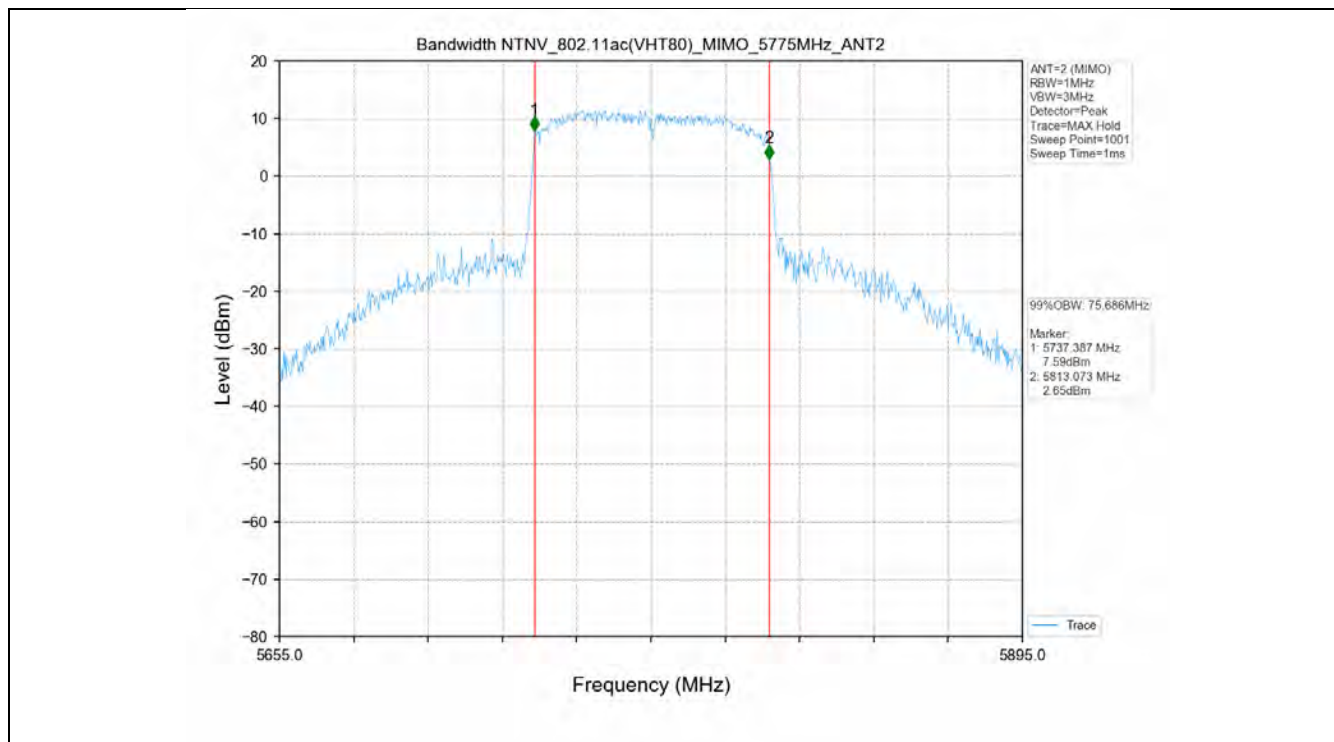
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### 3. Maximum Conducted Output Power

#### 3.1 Test Result

For FCC

| Test Mode       | Frequency (MHz) | Tx Type | Measured Output Power (dBm) |       |       | Limits (dBm) | Verdict |
|-----------------|-----------------|---------|-----------------------------|-------|-------|--------------|---------|
|                 |                 |         | Ant 1                       | Ant 2 | Total |              |         |
| 802.11a         | 5180            | SISO    | 12.93                       | 12.91 | /     | ≤24          | PASS    |
|                 | 5200            | SISO    | 13.13                       | 13.18 | /     | ≤24          | PASS    |
|                 | 5240            | SISO    | 14.09                       | 13.19 | /     | ≤24          | PASS    |
|                 | 5745            | SISO    | 20.90                       | 20.88 | /     | ≤30          | PASS    |
|                 | 5785            | SISO    | 20.34                       | 20.38 | /     | ≤30          | PASS    |
|                 | 5825            | SISO    | 19.47                       | 20.03 | /     | ≤30          | PASS    |
| 802.11n(HT20)   | 5180            | MIMO    | 9.05                        | 9.28  | 12.18 | ≤23.84       | PASS    |
|                 | 5200            | MIMO    | 8.46                        | 8.20  | 11.34 | ≤23.84       | PASS    |
|                 | 5240            | MIMO    | 9.30                        | 8.37  | 11.87 | ≤23.84       | PASS    |
|                 | 5745            | MIMO    | 20.85                       | 21.08 | 23.98 | ≤29.84       | PASS    |
|                 | 5785            | MIMO    | 20.47                       | 20.28 | 23.39 | ≤29.84       | PASS    |
|                 | 5825            | MIMO    | 19.63                       | 20.06 | 22.86 | ≤29.84       | PASS    |
| 802.11n(HT40)   | 5190            | MIMO    | 8.81                        | 8.46  | 11.65 | ≤23.84       | PASS    |
|                 | 5230            | MIMO    | 9.50                        | 8.83  | 12.19 | ≤23.84       | PASS    |
|                 | 5755            | MIMO    | 19.39                       | 19.47 | 22.44 | ≤29.84       | PASS    |
|                 | 5795            | MIMO    | 20.22                       | 20.21 | 23.23 | ≤29.84       | PASS    |
| 802.11ac(VHT20) | 5180            | MIMO    | 8.77                        | 8.68  | 11.74 | ≤23.84       | PASS    |
|                 | 5200            | MIMO    | 9.50                        | 9.21  | 12.37 | ≤23.84       | PASS    |
|                 | 5240            | MIMO    | 9.79                        | 9.18  | 12.51 | ≤23.84       | PASS    |
|                 | 5745            | MIMO    | 20.61                       | 20.79 | 23.71 | ≤29.84       | PASS    |



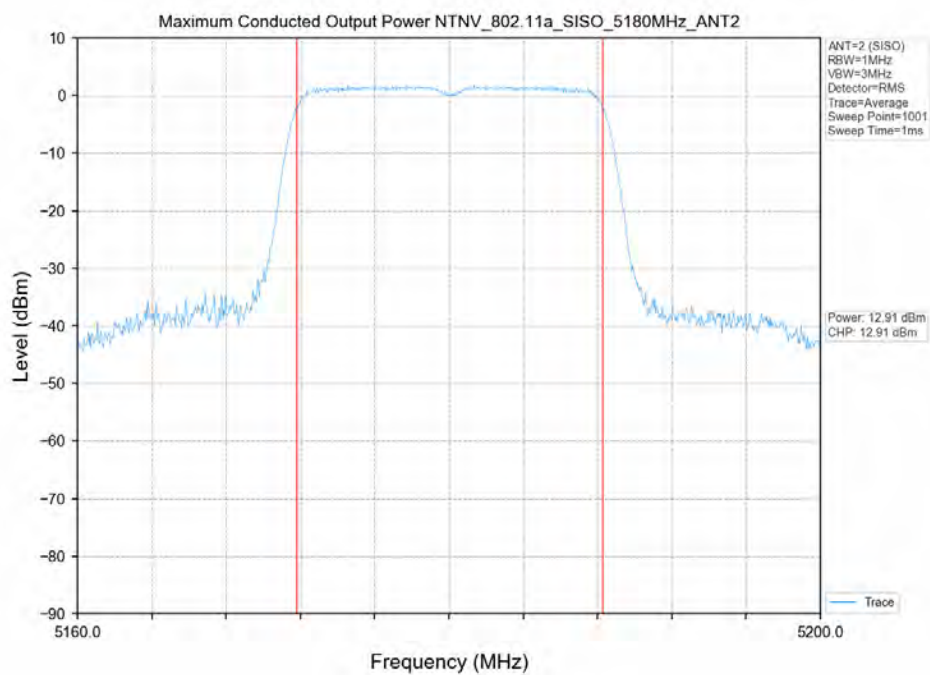
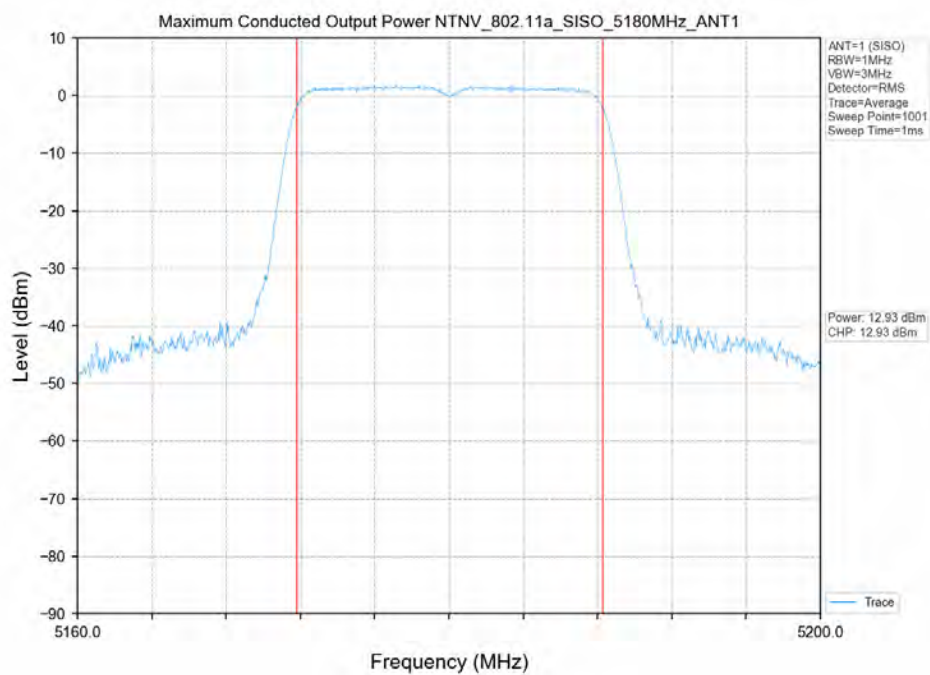
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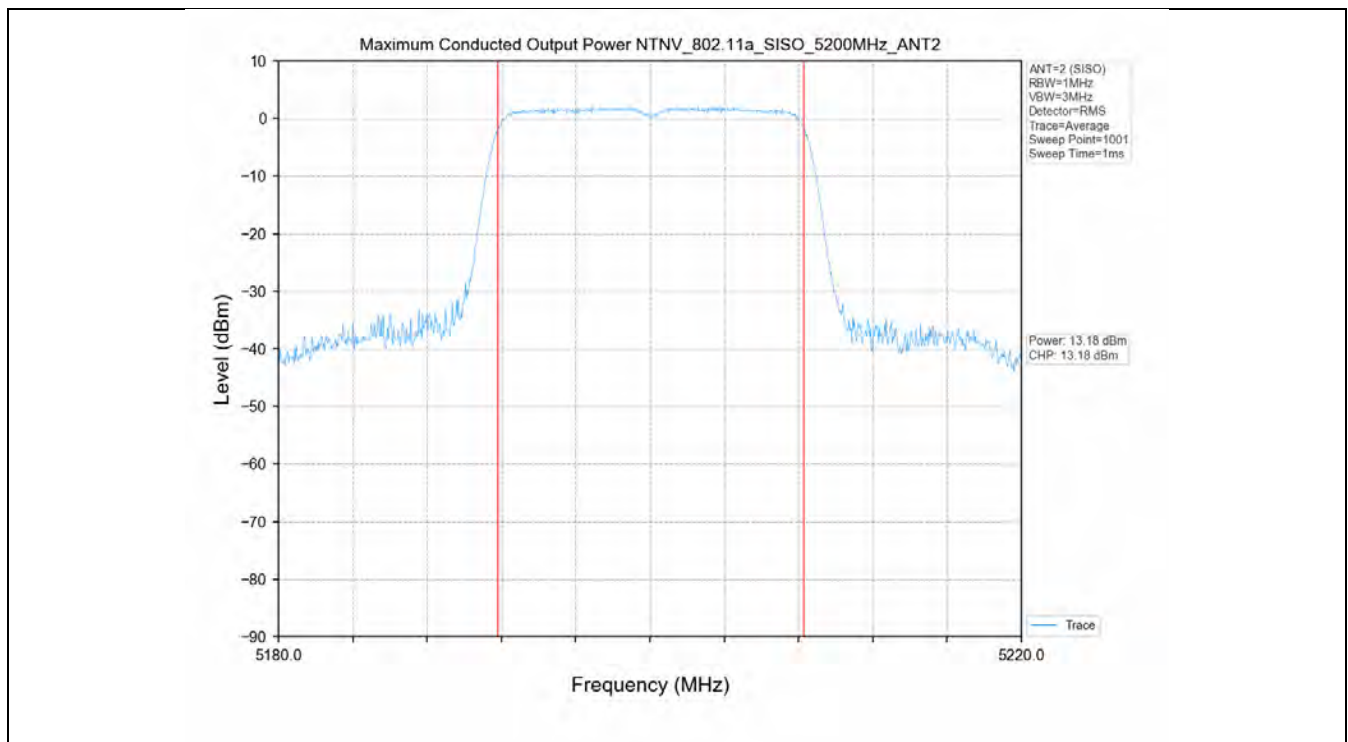
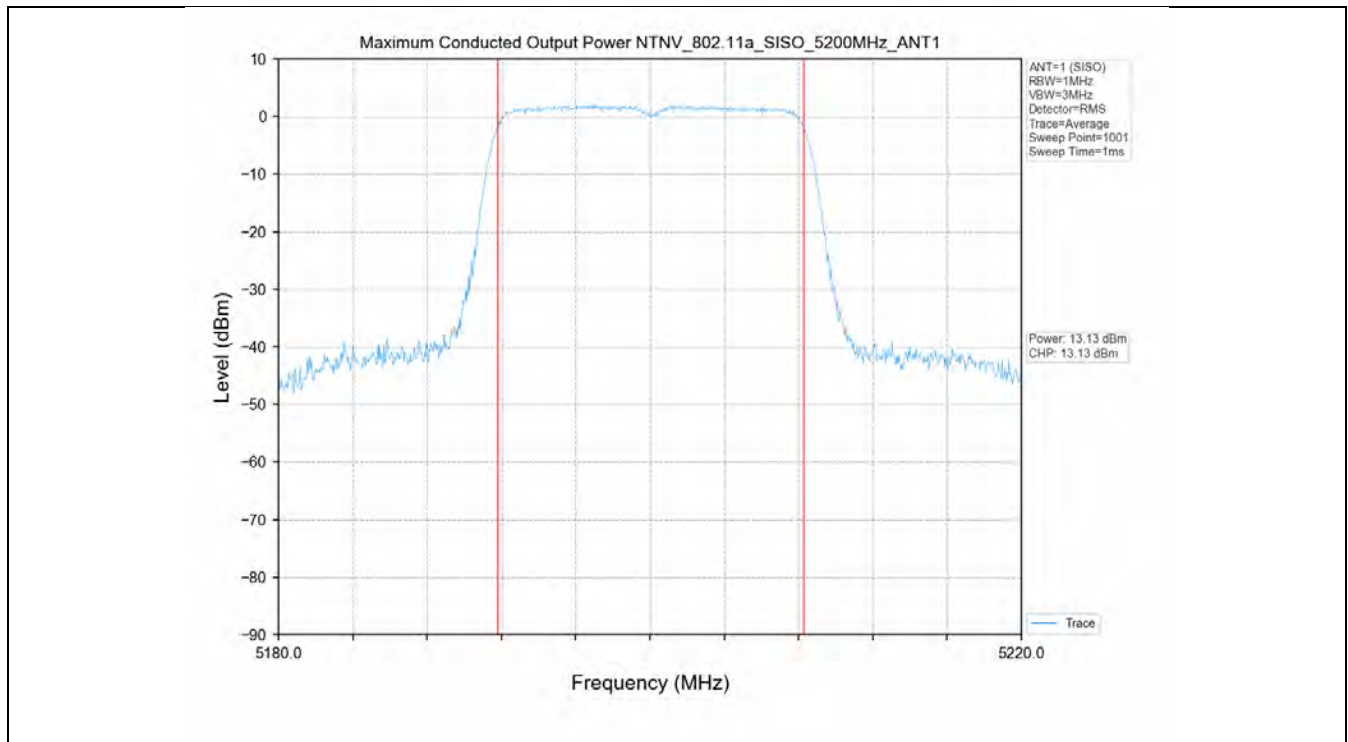
|                 |      |      |       |       |       |        |      |
|-----------------|------|------|-------|-------|-------|--------|------|
| 802.11ac(VHT40) | 5785 | MIMO | 20.37 | 20.32 | 23.36 | ≤29.84 | PASS |
|                 | 5825 | MIMO | 19.64 | 20.03 | 22.85 | ≤29.84 | PASS |
|                 | 5190 | MIMO | 9.02  | 8.75  | 11.90 | ≤23.84 | PASS |
|                 | 5230 | MIMO | 9.52  | 8.86  | 12.21 | ≤23.84 | PASS |
|                 | 5755 | MIMO | 19.79 | 19.53 | 22.67 | ≤29.84 | PASS |
|                 | 5795 | MIMO | 20.21 | 20.35 | 23.29 | ≤29.84 | PASS |
| 802.11ac(VHT80) | 5210 | MIMO | 9.54  | 9.43  | 12.50 | ≤23.84 | PASS |
|                 | 5775 | MIMO | 19.27 | 18.59 | 21.95 | ≤29.84 | PASS |

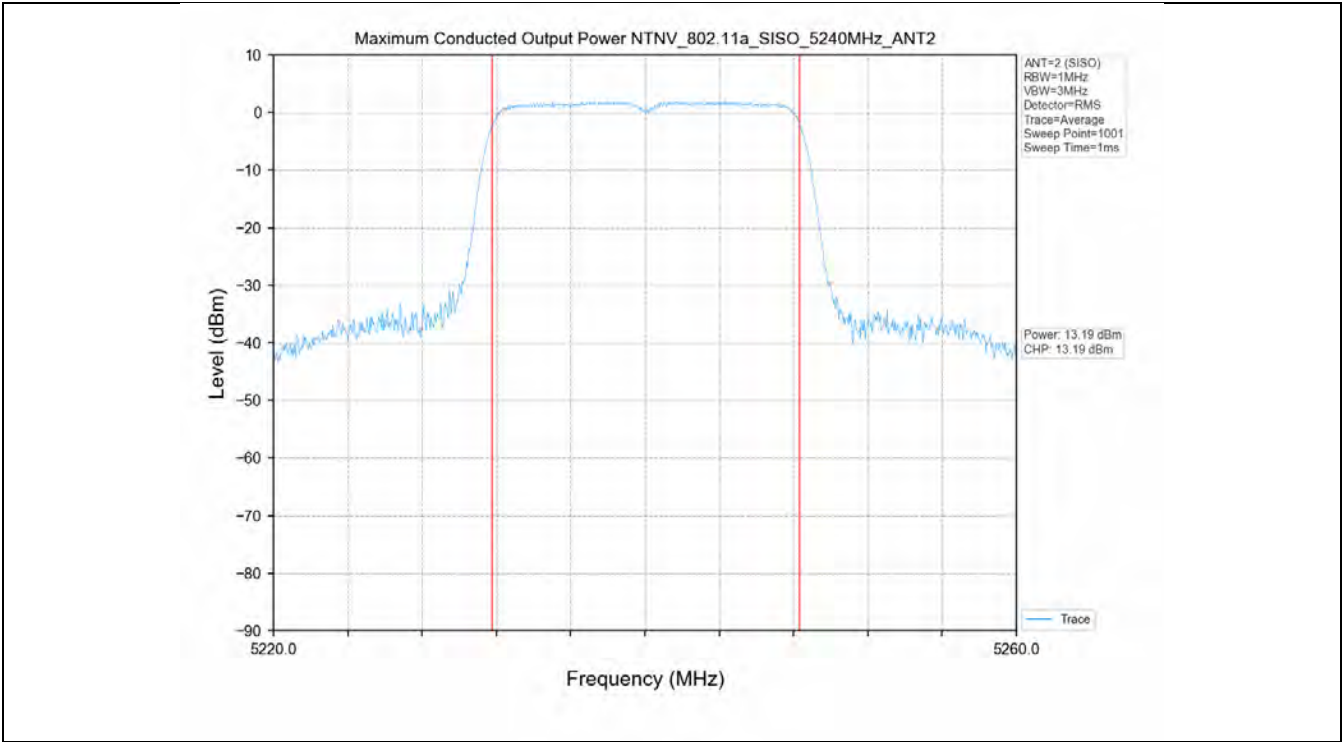
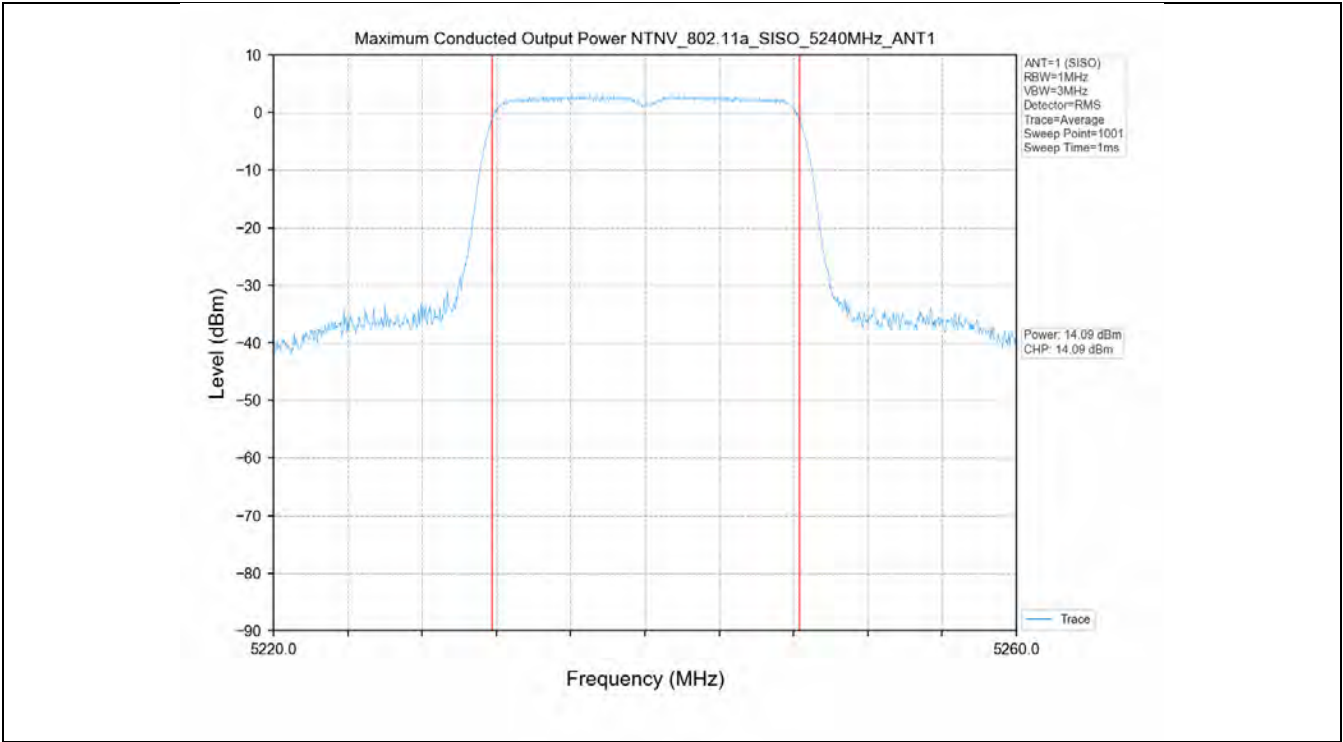
### For IC

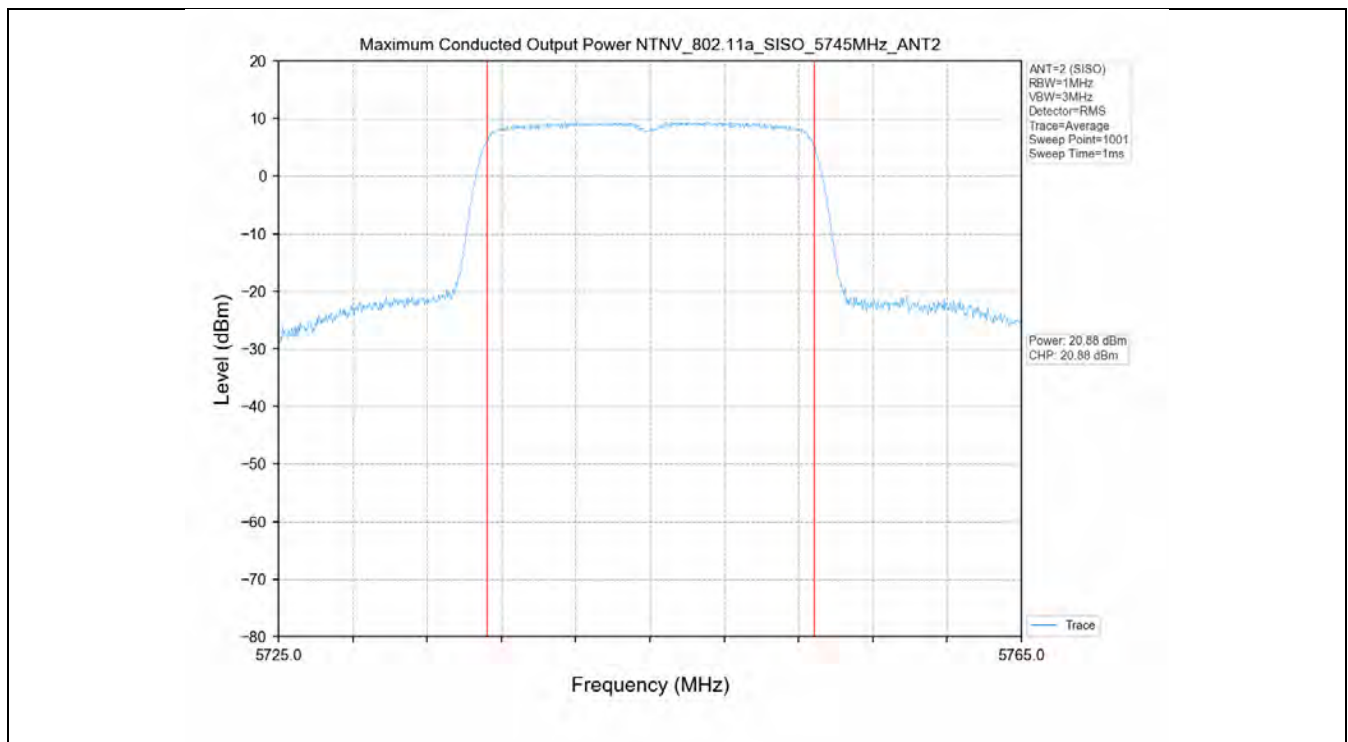
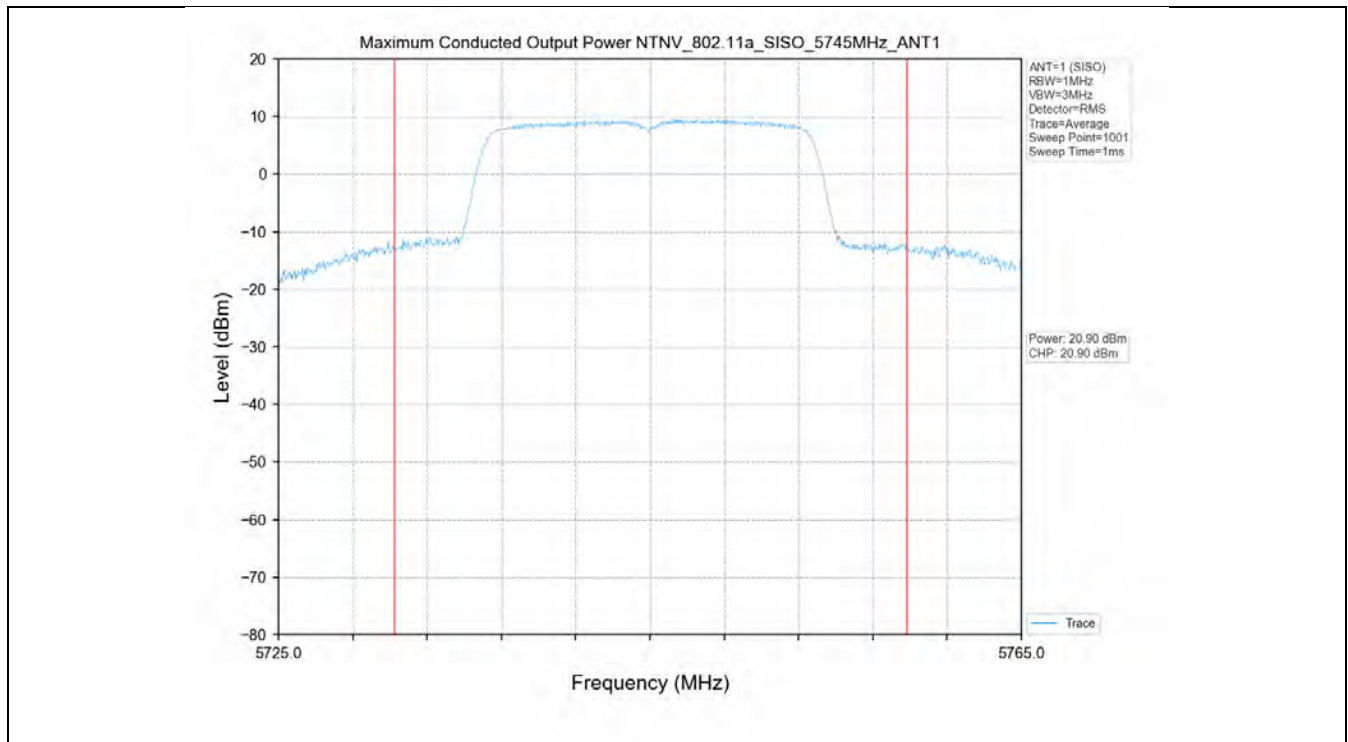
| Test Mode        | Frequency (MHz) | Tx Type | Measured Output Power (dBm) |       |       | EIRP (dBm) |       |       | Limits (dBm) | Verdict |
|------------------|-----------------|---------|-----------------------------|-------|-------|------------|-------|-------|--------------|---------|
|                  |                 |         | Ant 1                       | Ant 2 | Total | Ant 1      | Ant 2 | Total |              |         |
| 802.11a          | 5180            | SISO    | 12.93                       | 12.91 | /     | 16.08      | 16.06 | /     | ≤23          | PASS    |
|                  | 5200            | SISO    | 13.13                       | 13.18 | /     | 16.28      | 16.33 | /     | ≤23          | PASS    |
|                  | 5240            | SISO    | 14.09                       | 13.19 | /     | 17.24      | 16.34 | /     | ≤23          | PASS    |
|                  | 5745            | SISO    | 20.90                       | 20.88 | /     | /          | /     | /     | ≤29.84       | PASS    |
|                  | 5785            | SISO    | 20.34                       | 20.38 | /     | /          | /     | /     | ≤29.84       | PASS    |
|                  | 5825            | SISO    | 19.47                       | 20.03 | /     | /          | /     | /     | ≤29.84       | PASS    |
| 802.11n (HT20)   | 5180            | MIMO    | 9.05                        | 9.28  | 12.18 | 15.21      | 15.44 | 18.34 | ≤23          | PASS    |
|                  | 5200            | MIMO    | 8.46                        | 8.20  | 11.34 | 14.62      | 14.36 | 17.50 | ≤23          | PASS    |
|                  | 5240            | MIMO    | 9.30                        | 8.37  | 11.87 | 15.46      | 14.53 | 18.03 | ≤23          | PASS    |
|                  | 5745            | MIMO    | 20.85                       | 21.08 | 23.98 | /          | /     | /     | ≤29.84       | PASS    |
|                  | 5785            | MIMO    | 20.47                       | 20.28 | 23.39 | /          | /     | /     | ≤29.84       | PASS    |
|                  | 5825            | MIMO    | 19.63                       | 20.06 | 22.86 | /          | /     | /     | ≤29.84       | PASS    |
| 802.11n (HT40)   | 5190            | MIMO    | 8.81                        | 8.46  | 11.65 | 14.97      | 14.62 | 17.81 | ≤23          | PASS    |
|                  | 5230            | MIMO    | 9.50                        | 8.83  | 12.19 | 15.66      | 14.99 | 18.35 | ≤23          | PASS    |
|                  | 5755            | MIMO    | 19.39                       | 19.47 | 22.44 | /          | /     | /     | ≤29.84       | PASS    |
|                  | 5795            | MIMO    | 20.22                       | 20.21 | 23.23 | /          | /     | /     | ≤29.84       | PASS    |
| 802.11ac (VHT20) | 5180            | MIMO    | 8.77                        | 8.68  | 11.74 | 14.93      | 14.84 | 17.90 | ≤23          | PASS    |
|                  | 5200            | MIMO    | 9.50                        | 9.21  | 12.37 | 15.66      | 15.37 | 18.53 | ≤23          | PASS    |
|                  | 5240            | MIMO    | 9.79                        | 9.18  | 12.51 | 15.95      | 15.34 | 18.67 | ≤23          | PASS    |
|                  | 5745            | MIMO    | 20.61                       | 20.79 | 23.71 | /          | /     | /     | ≤29.84       | PASS    |
|                  | 5785            | MIMO    | 20.37                       | 20.32 | 23.36 | /          | /     | /     | ≤29.84       | PASS    |
|                  | 5825            | MIMO    | 19.64                       | 20.03 | 22.85 | /          | /     | /     | ≤29.84       | PASS    |
| 802.11ac (VHT40) | 5190            | MIMO    | 9.02                        | 8.75  | 11.90 | 15.18      | 14.91 | 18.06 | ≤23          | PASS    |
|                  | 5230            | MIMO    | 9.52                        | 8.86  | 12.21 | 15.68      | 15.02 | 18.37 | ≤23          | PASS    |
|                  | 5755            | MIMO    | 19.79                       | 19.53 | 22.67 | /          | /     | /     | ≤29.84       | PASS    |
|                  | 5795            | MIMO    | 20.21                       | 20.35 | 23.29 | /          | /     | /     | ≤29.84       | PASS    |
| 802.11ac (VHT80) | 5210            | MIMO    | 9.54                        | 9.43  | 12.50 | 15.7       | 15.59 | 18.66 | ≤23          | PASS    |
|                  | 5775            | MIMO    | 19.27                       | 18.59 | 21.95 | /          | /     | /     | ≤29.84       | PASS    |

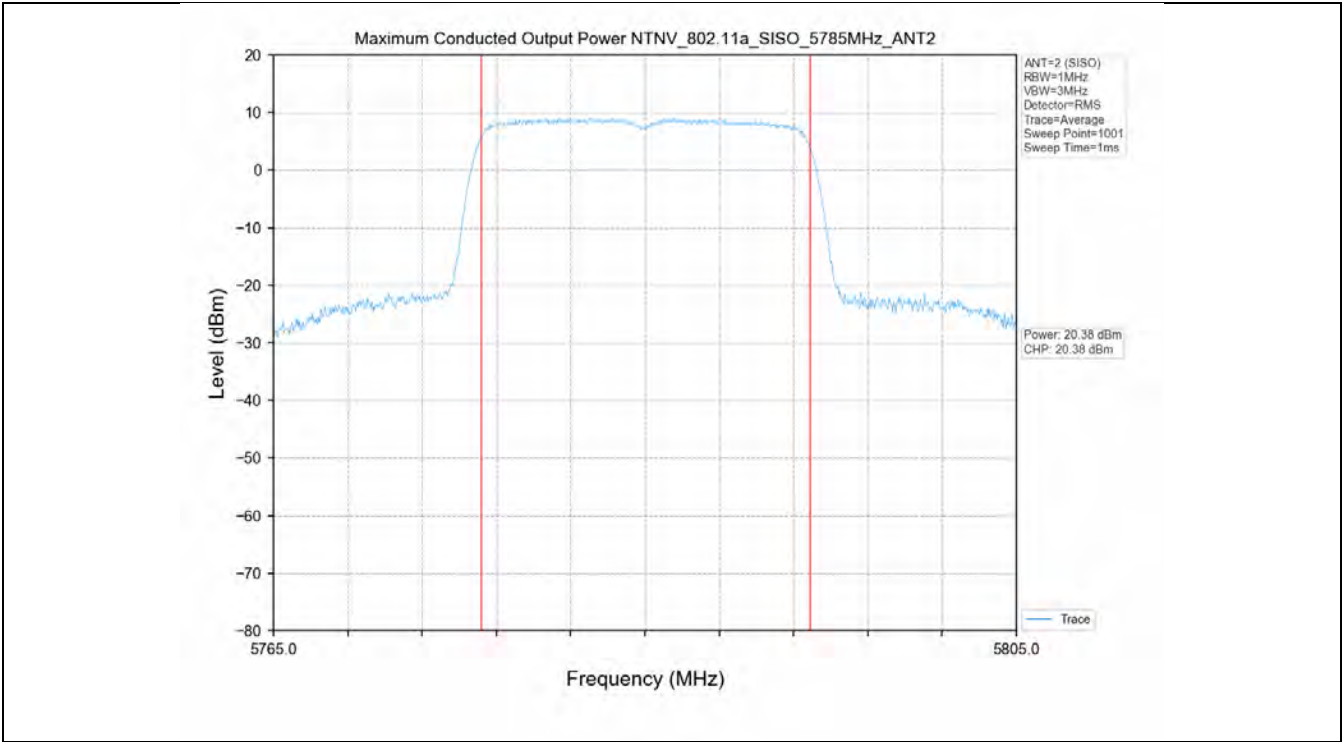
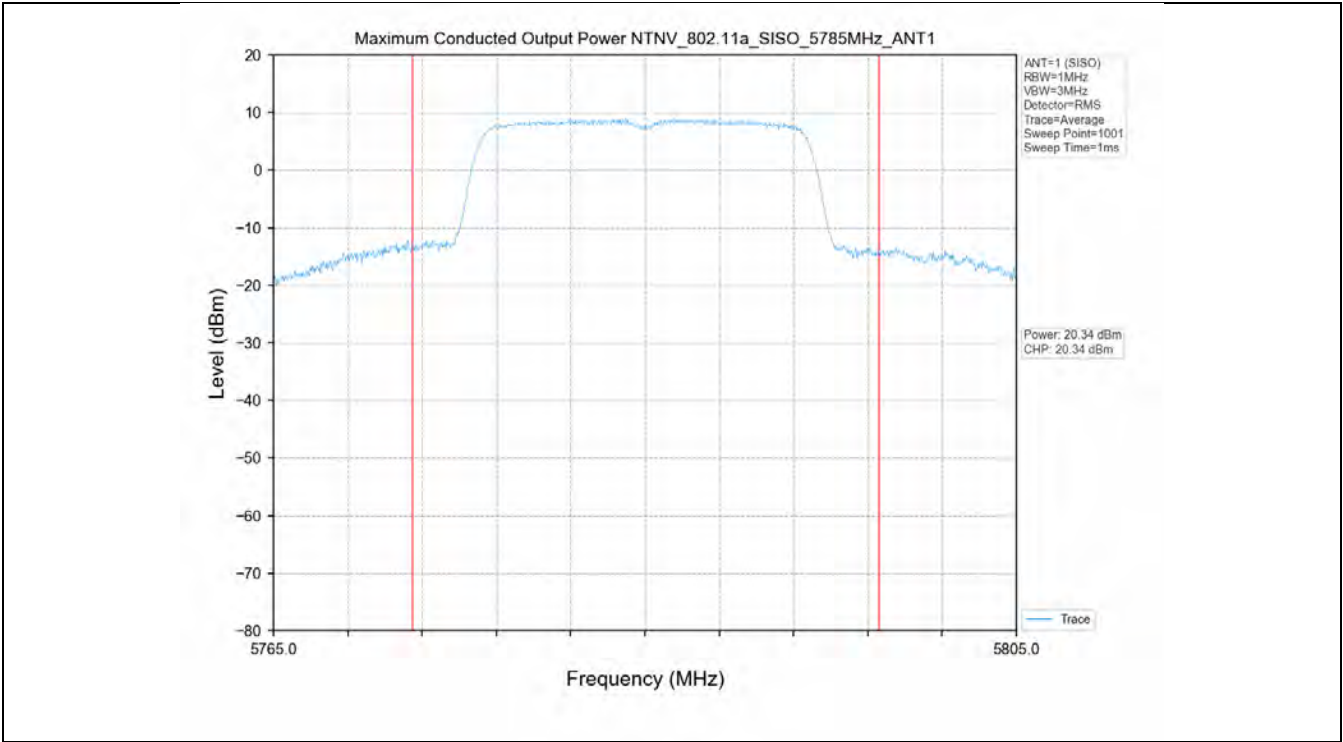
### 3.2 Test Graph





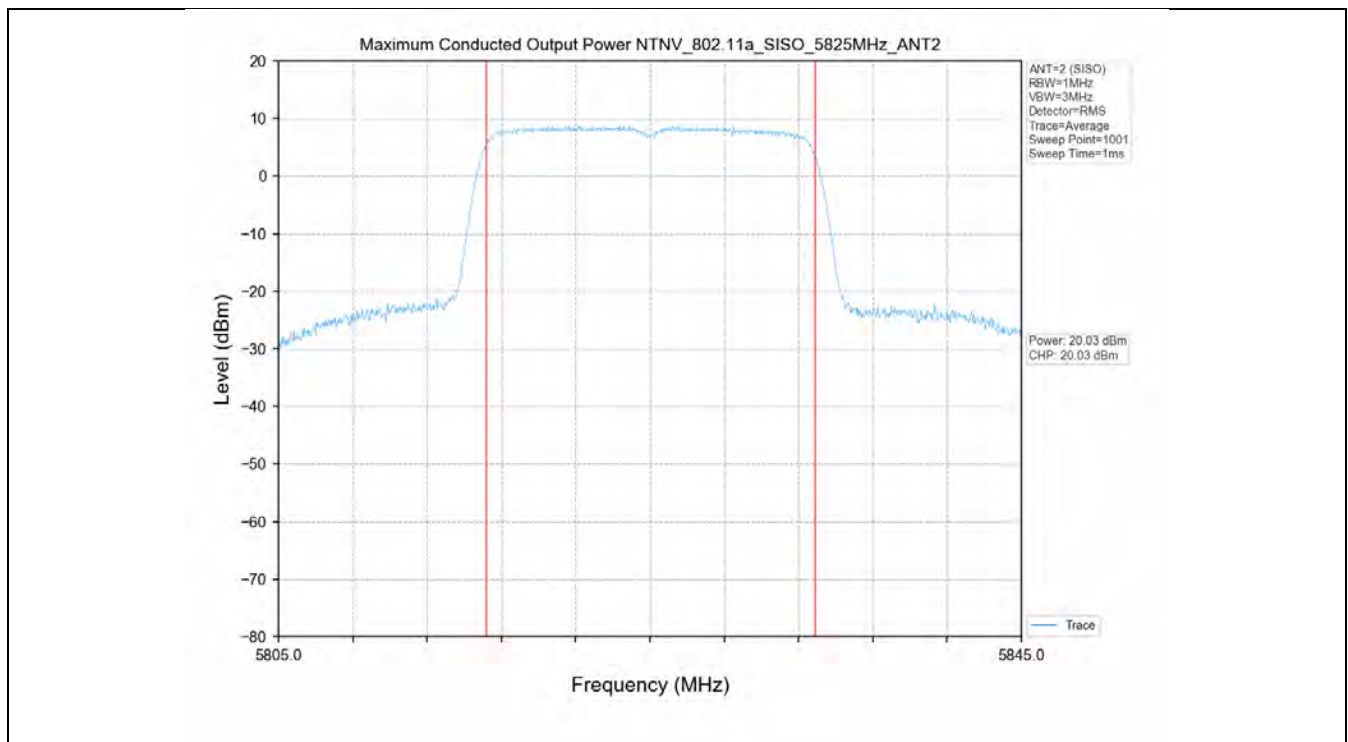
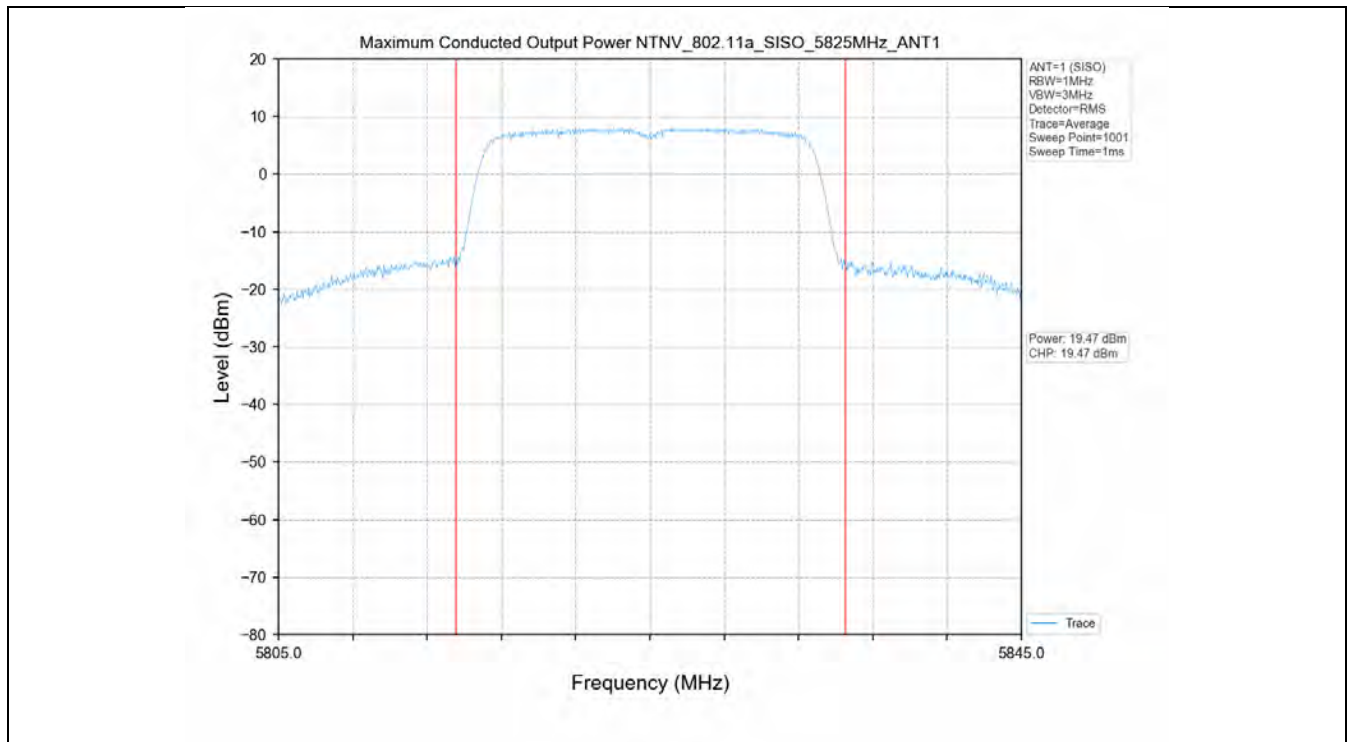






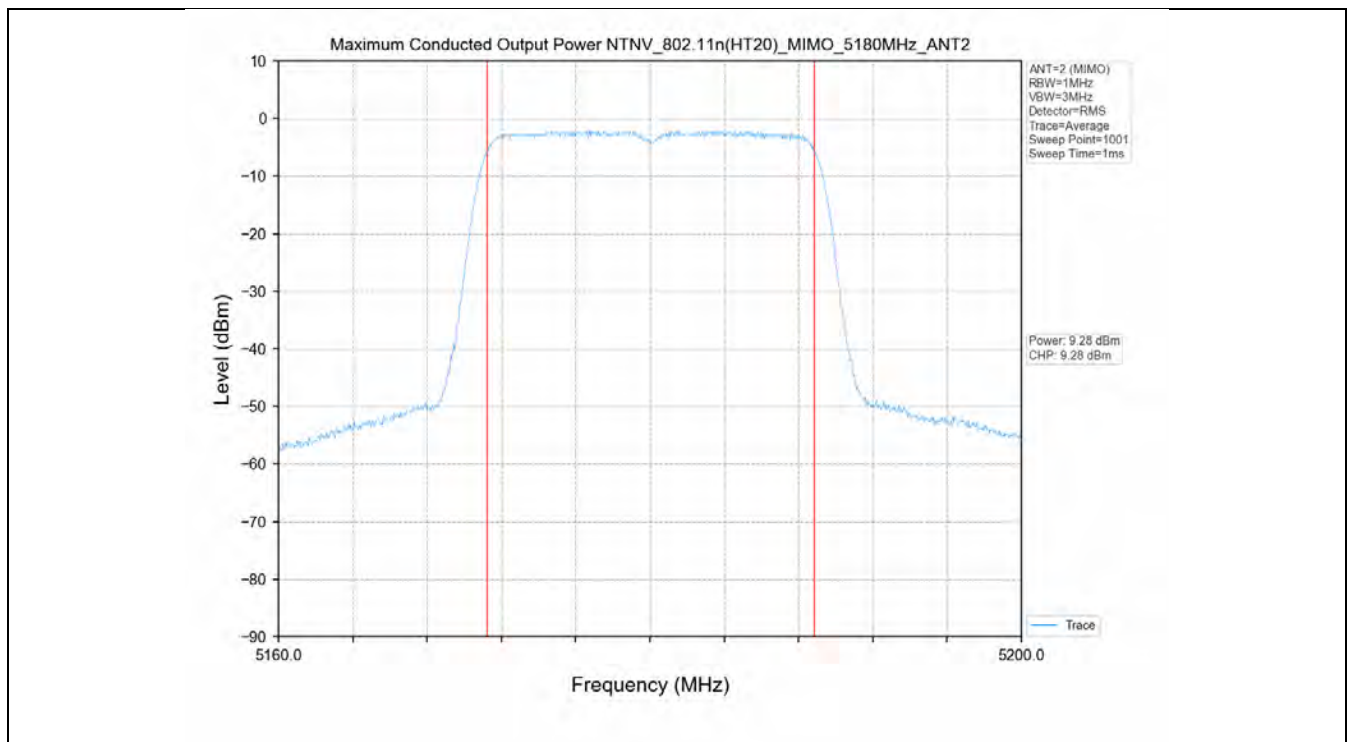
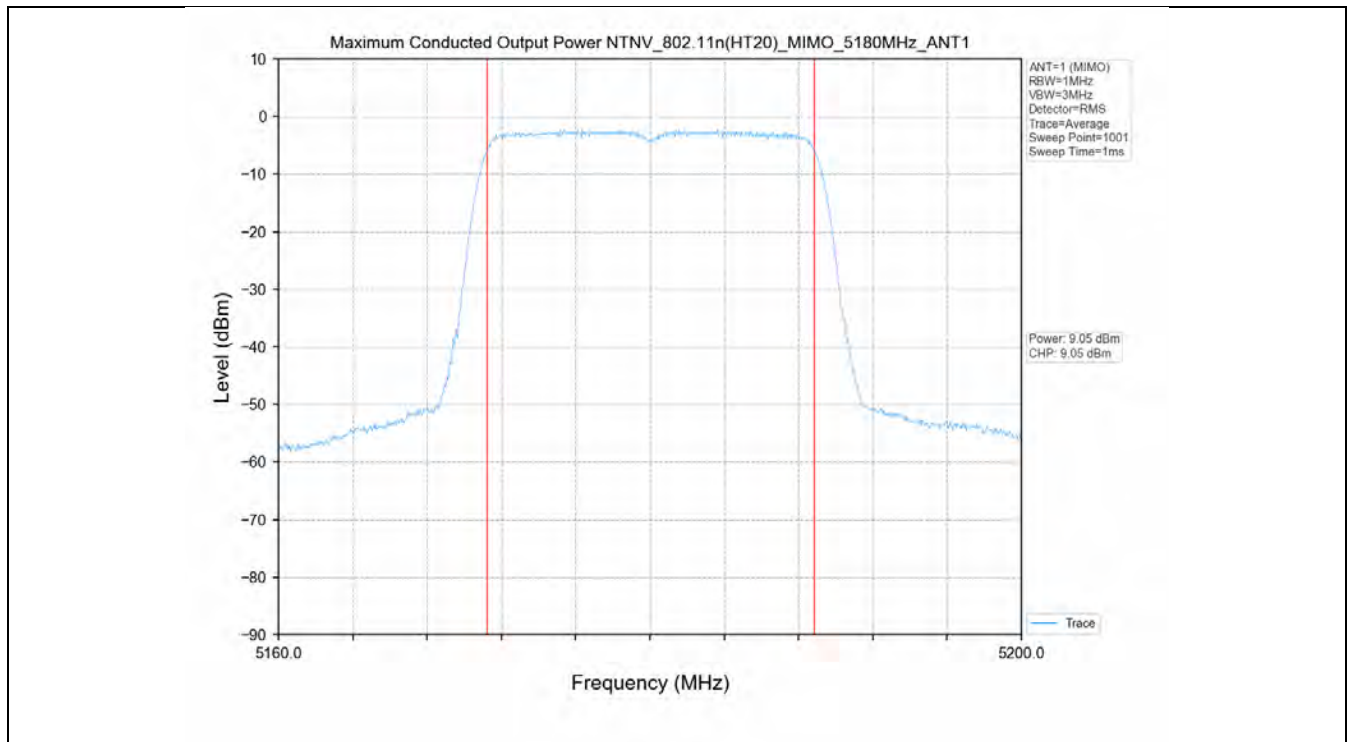


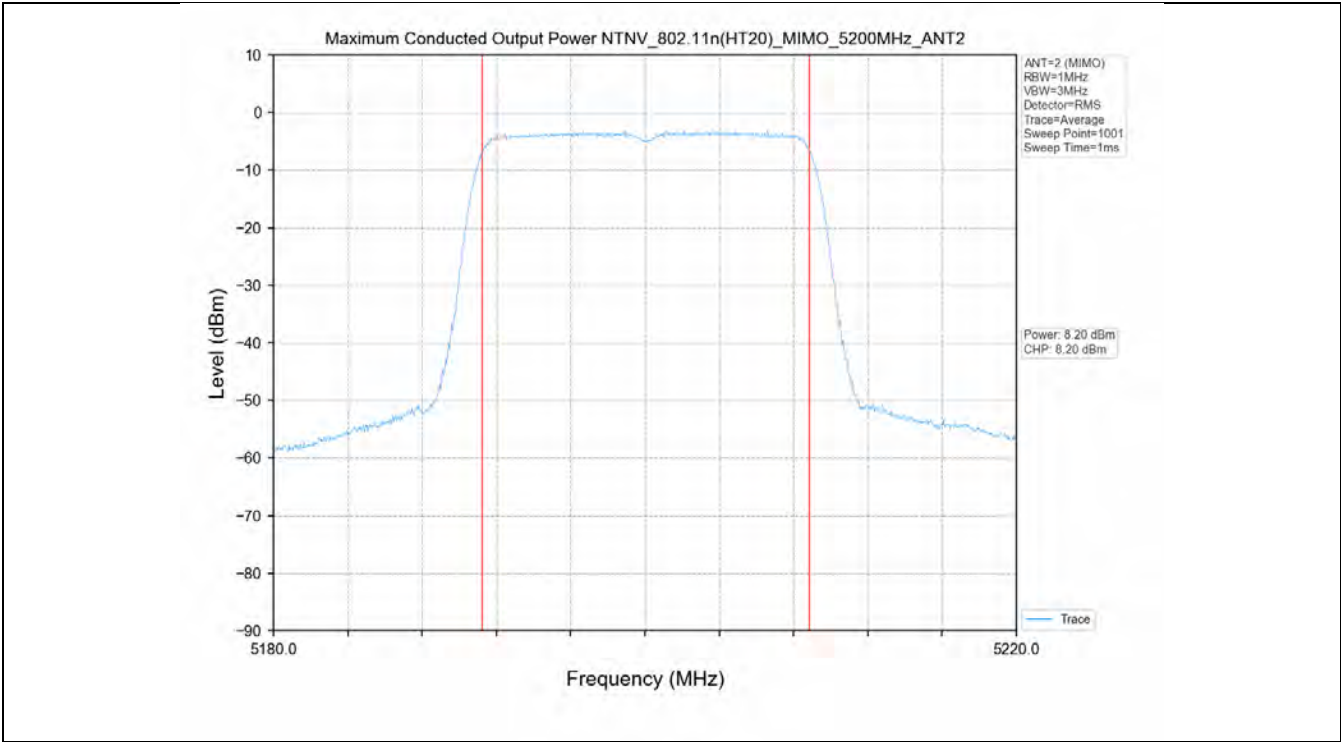
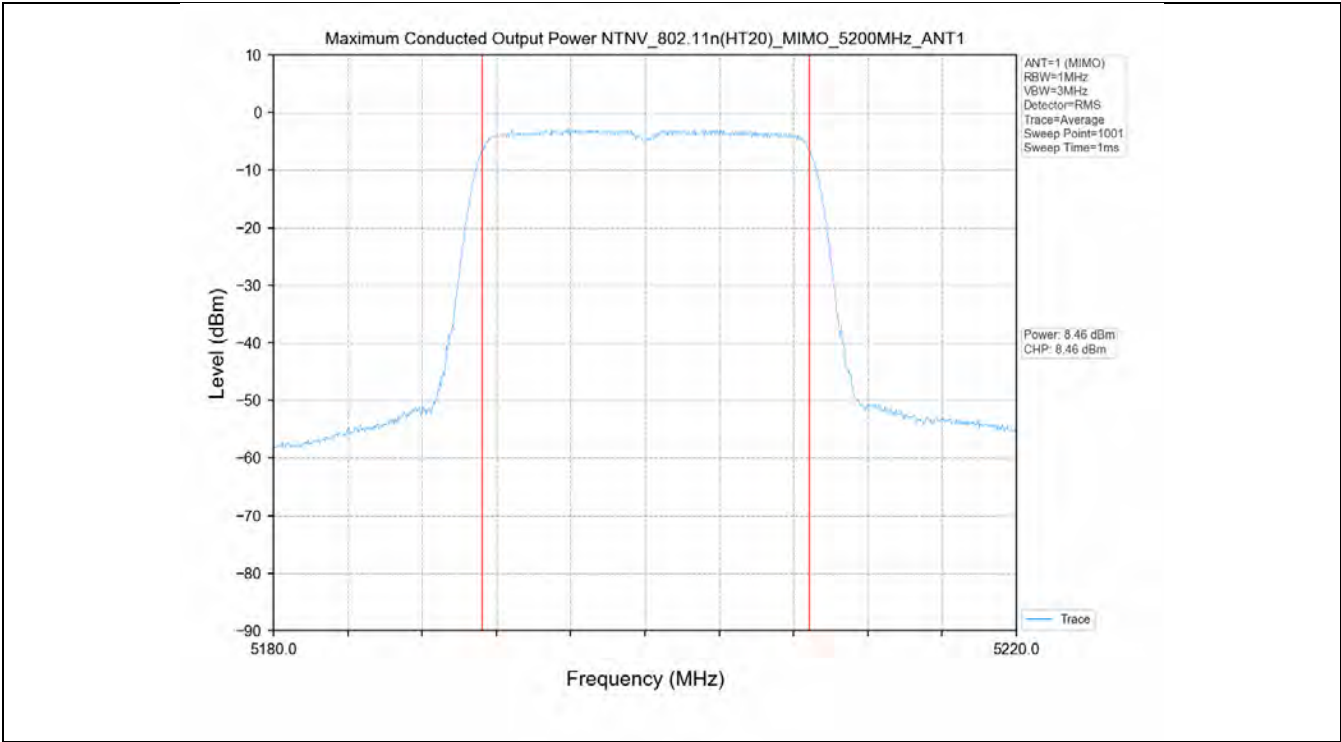
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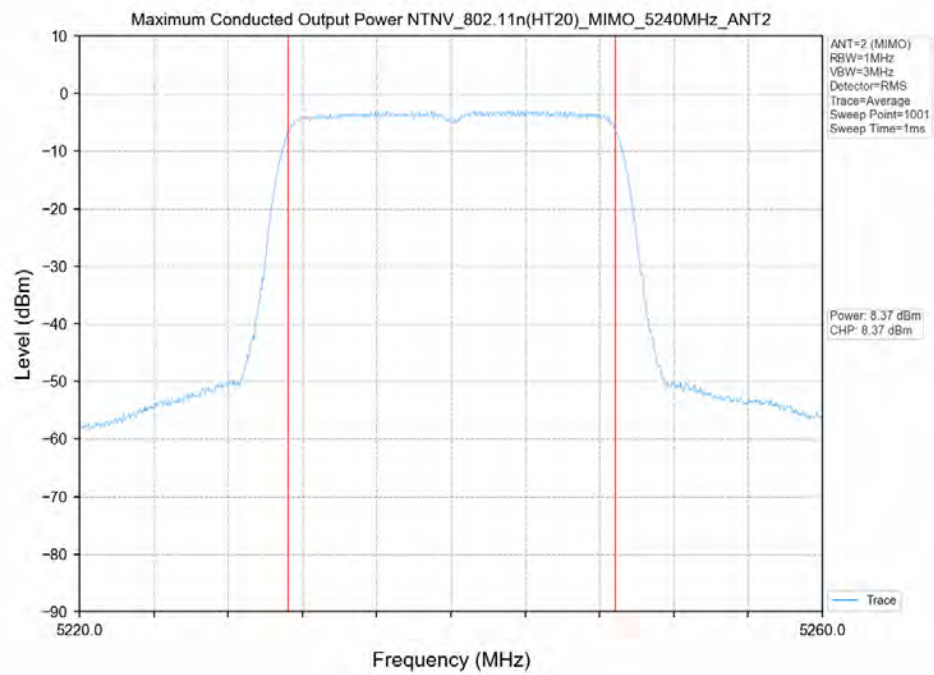
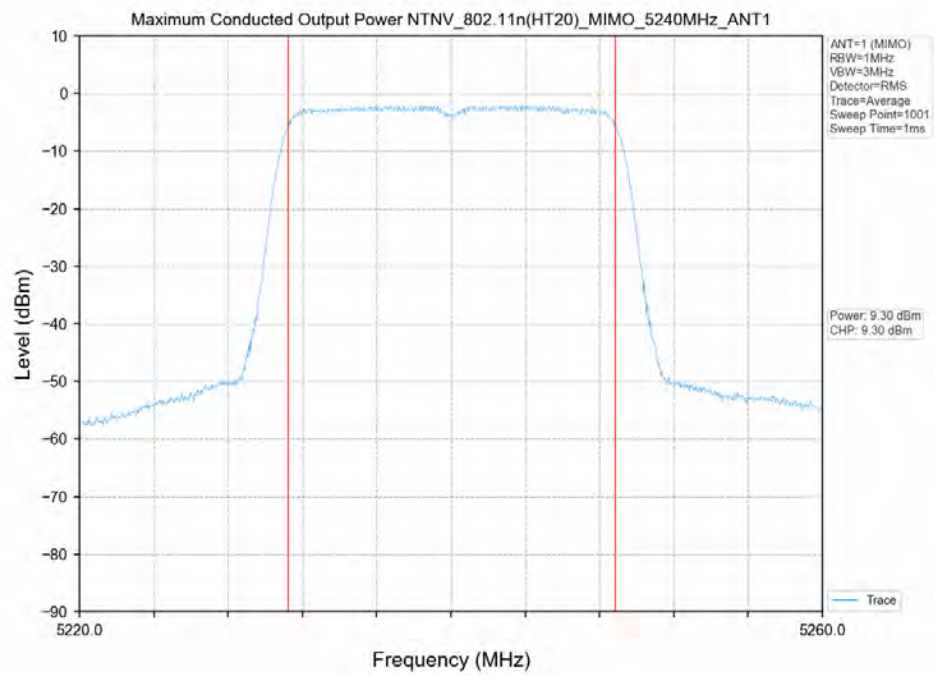


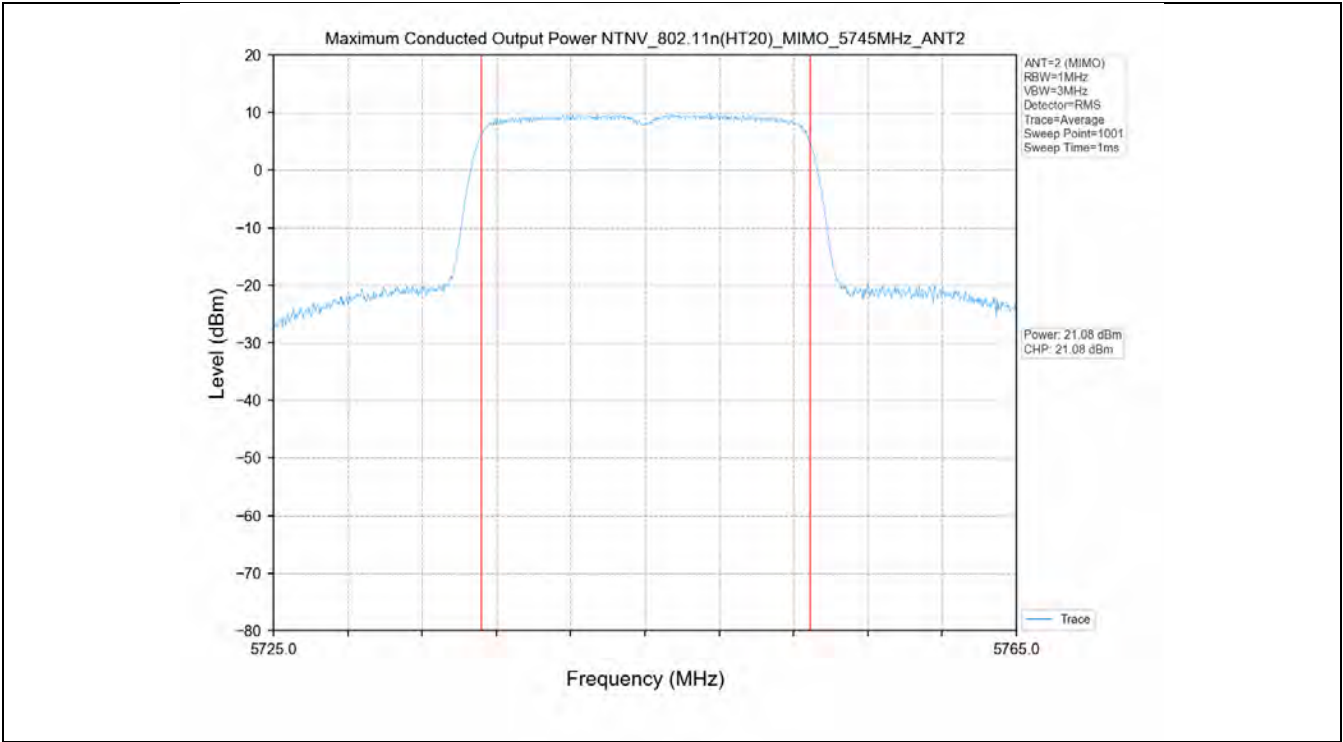
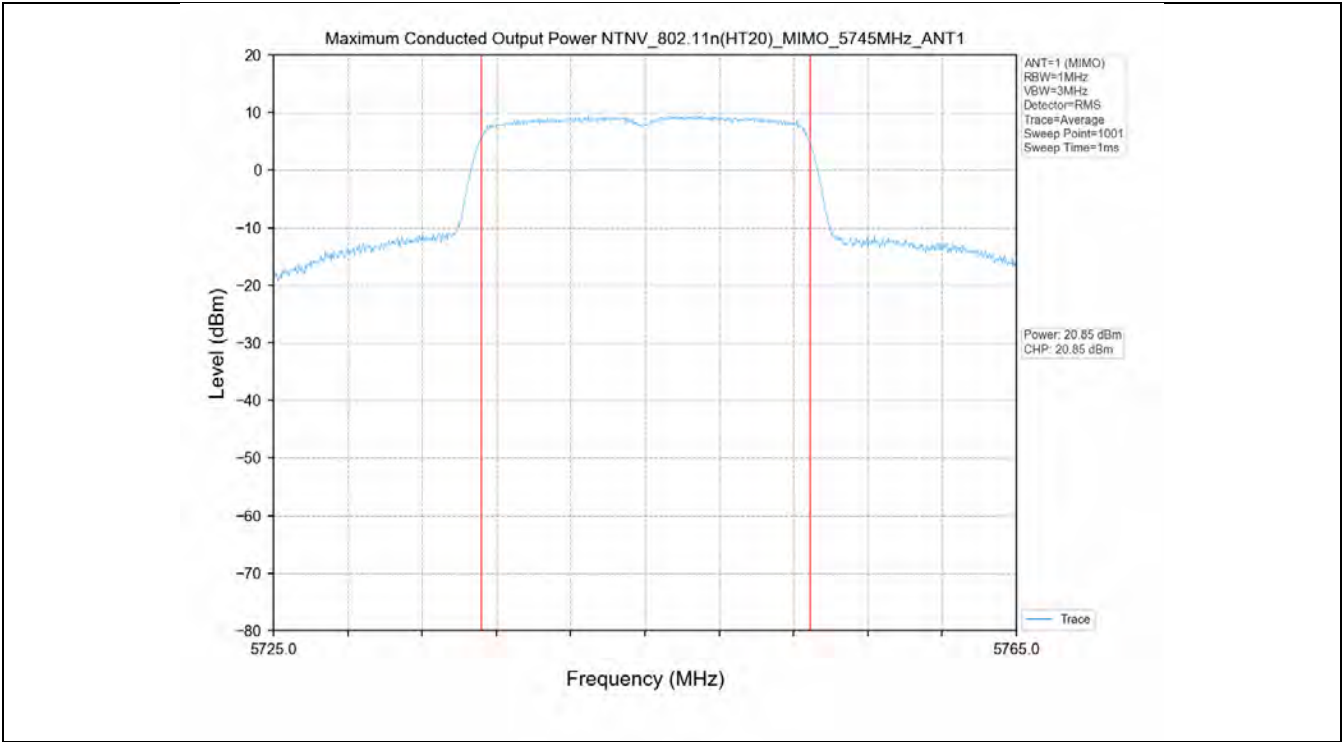


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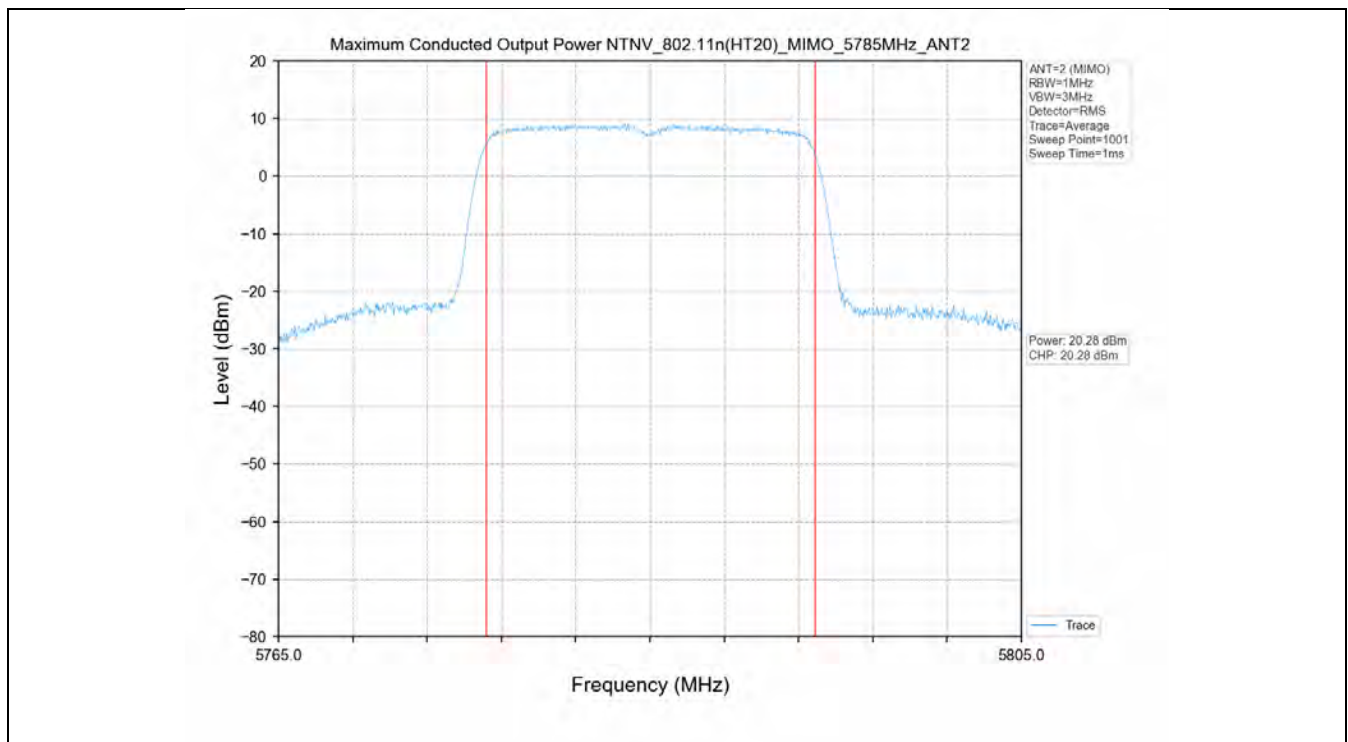
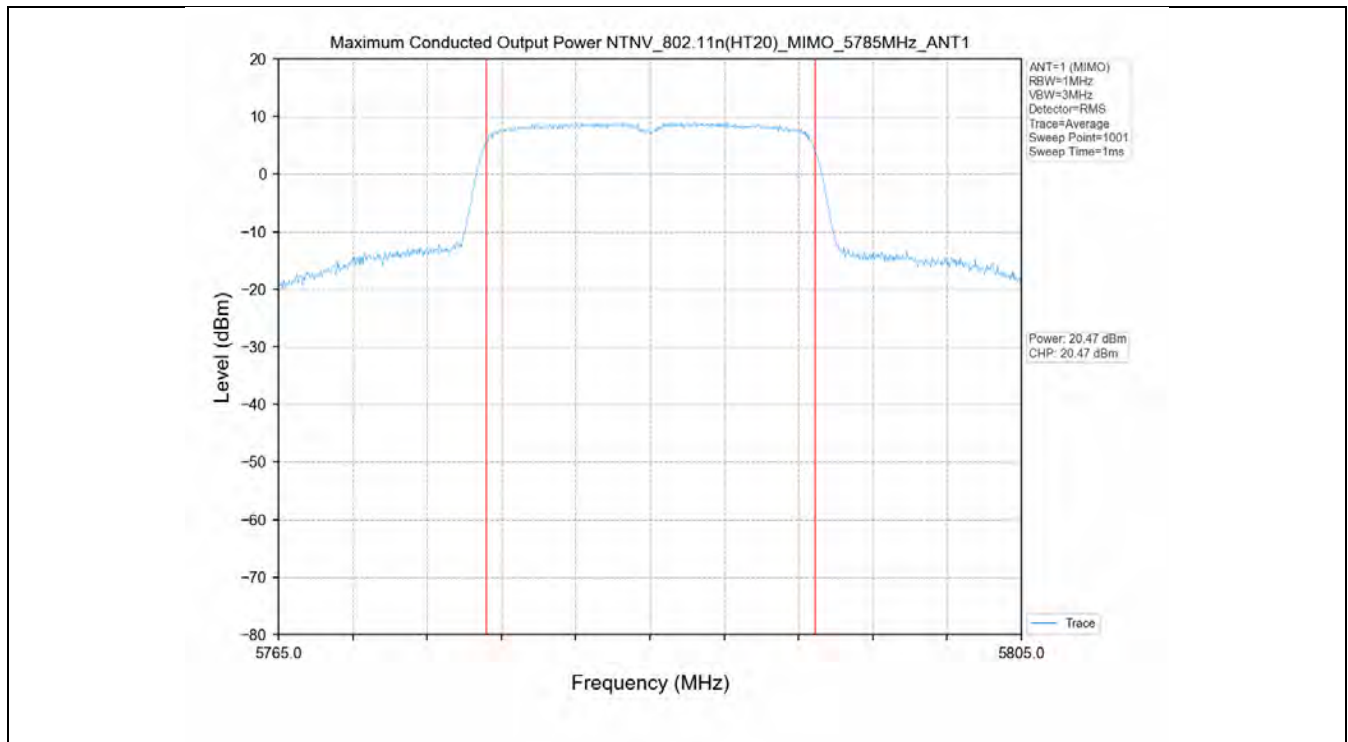






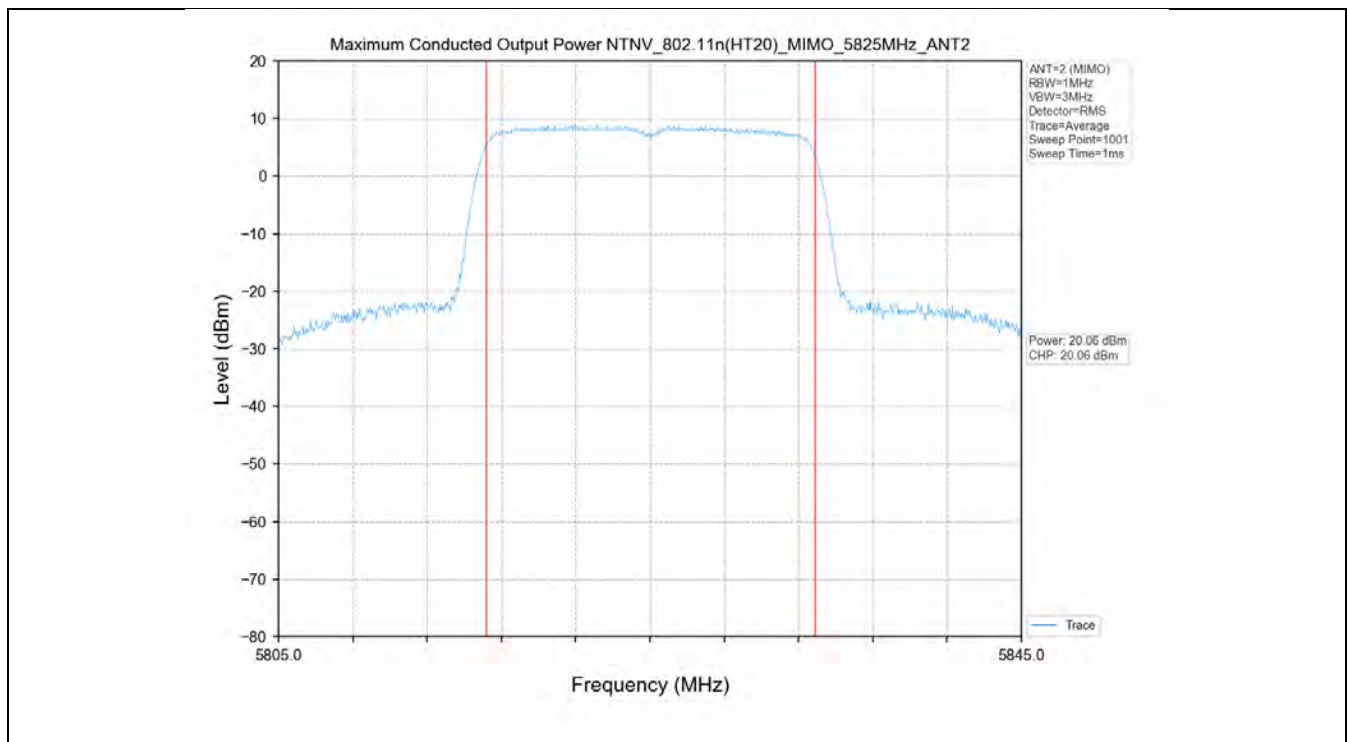
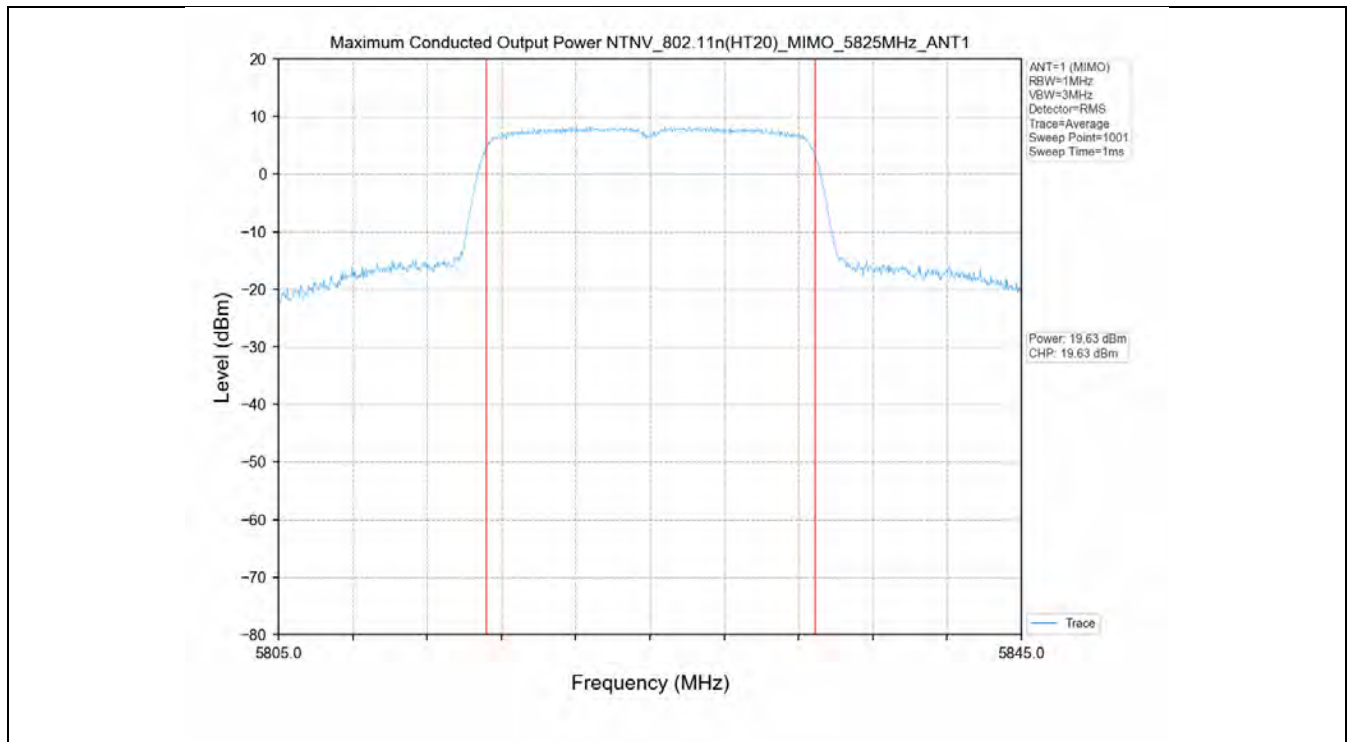


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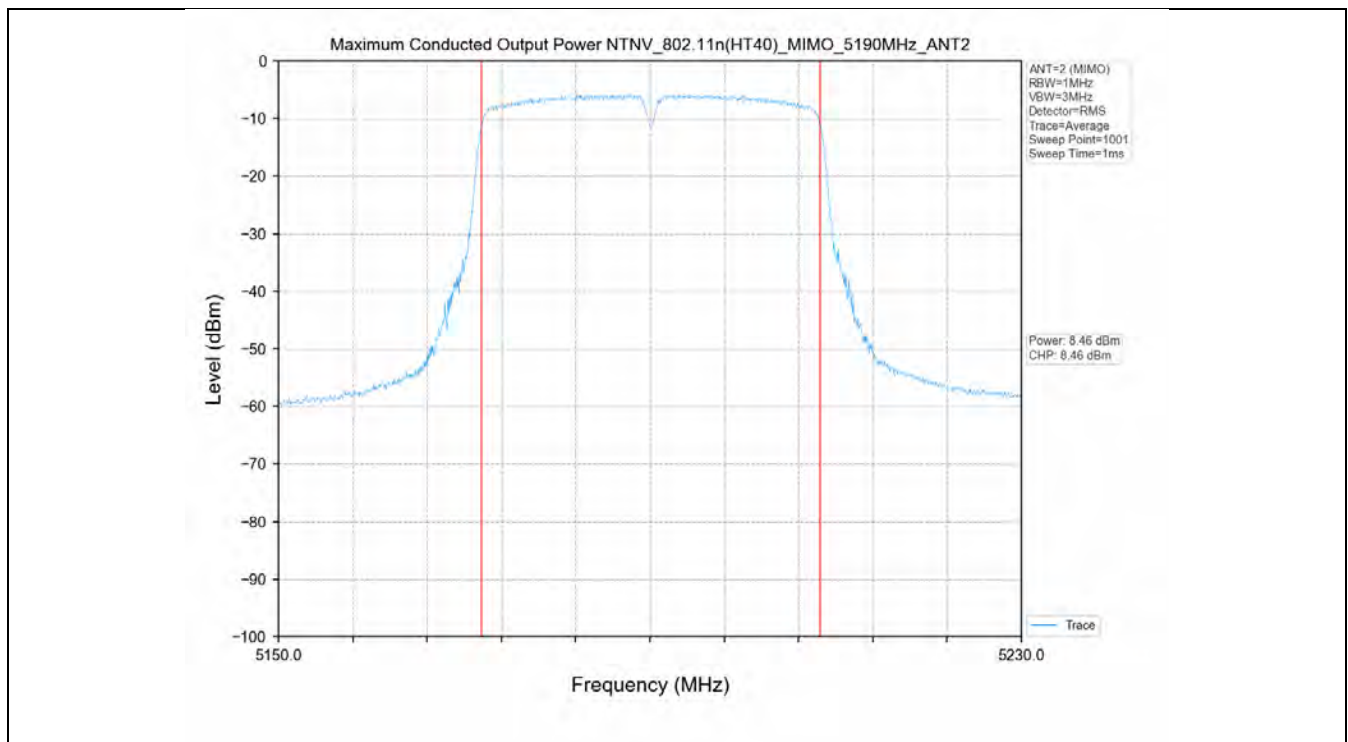
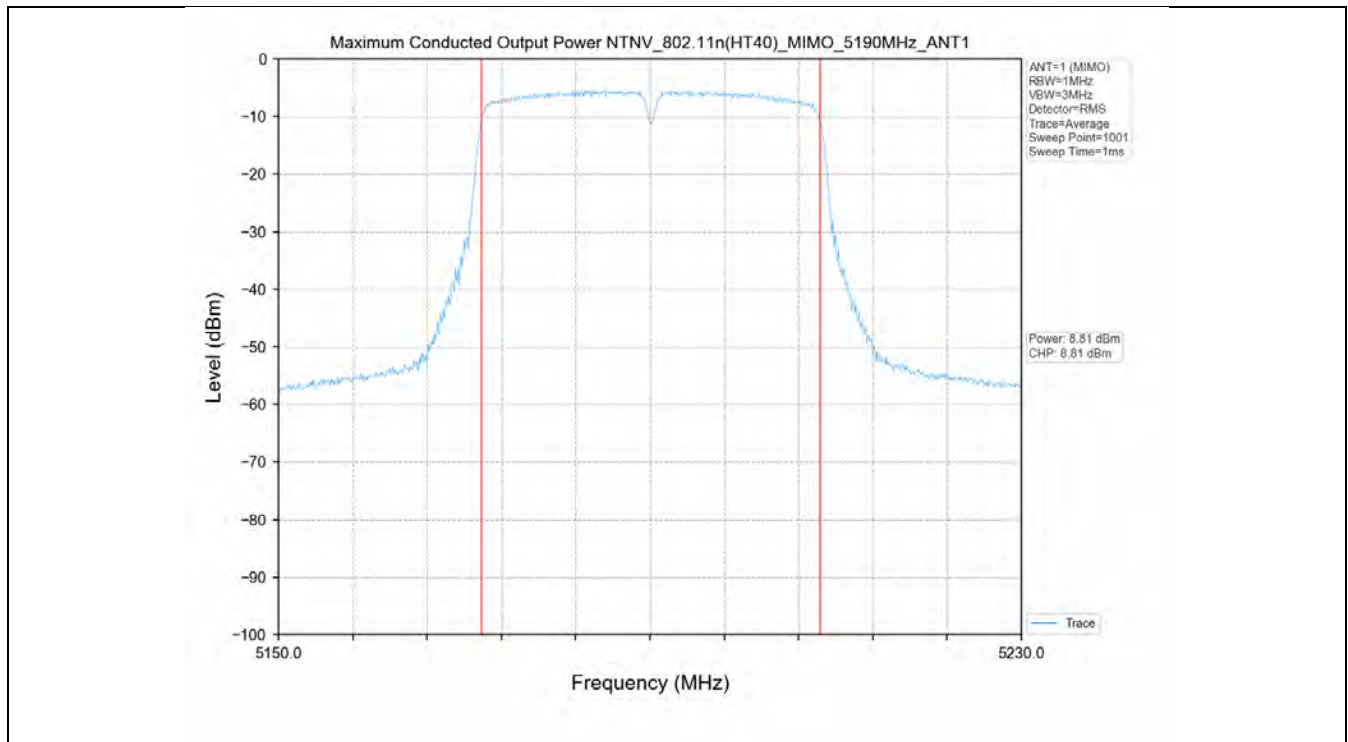


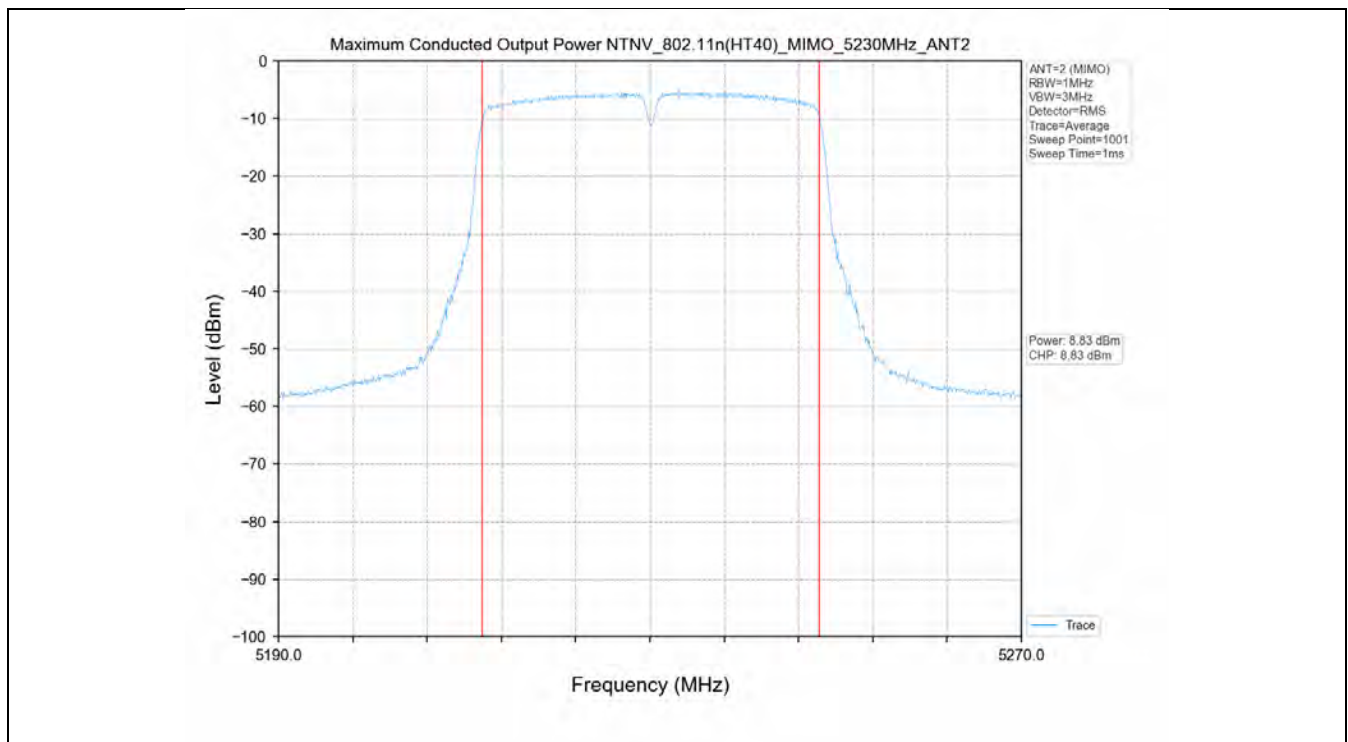
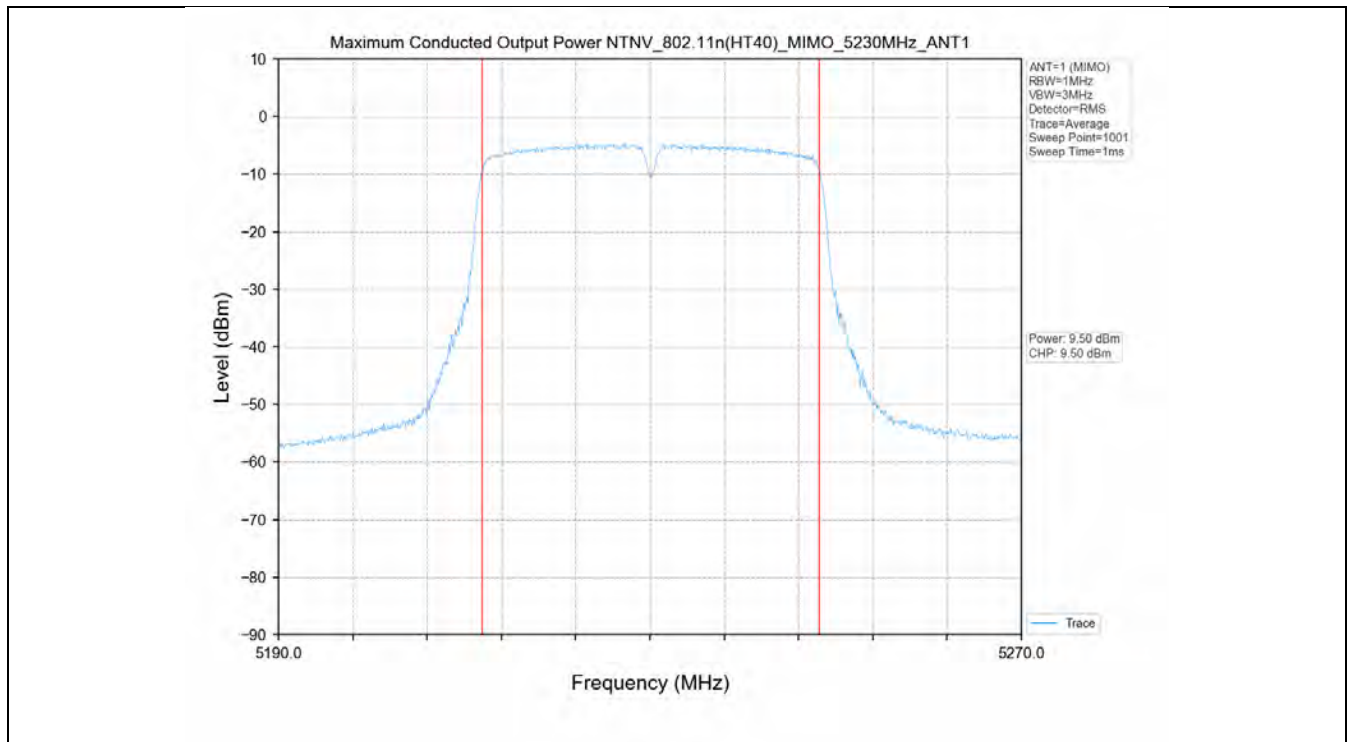
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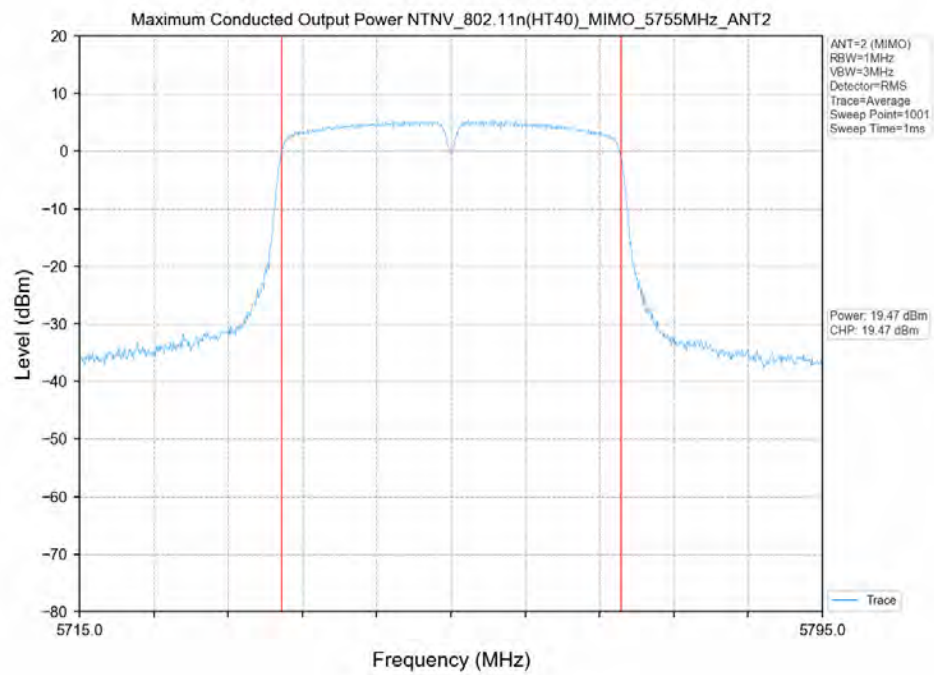
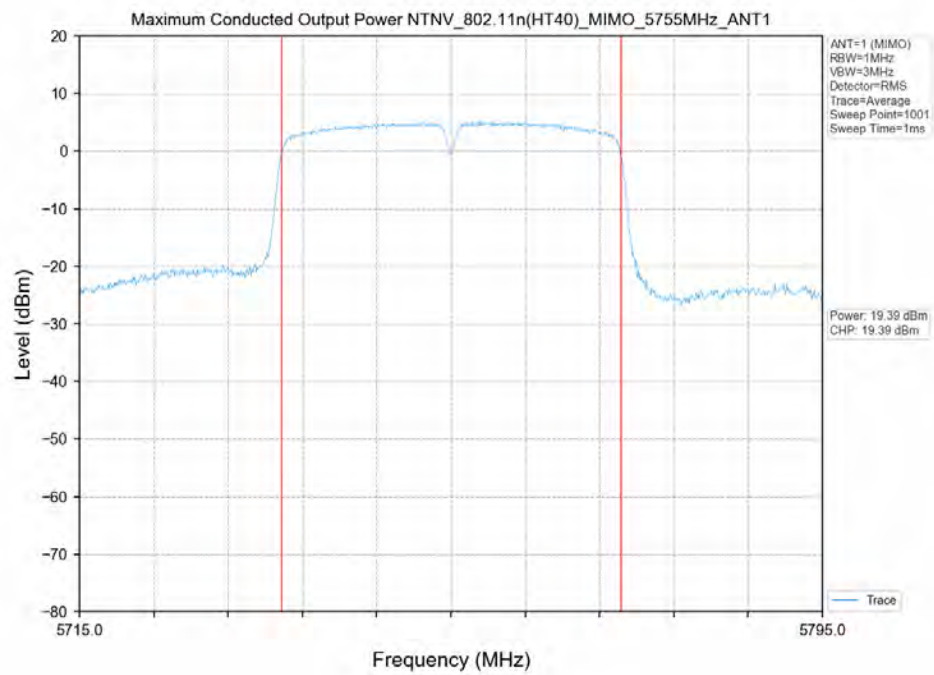


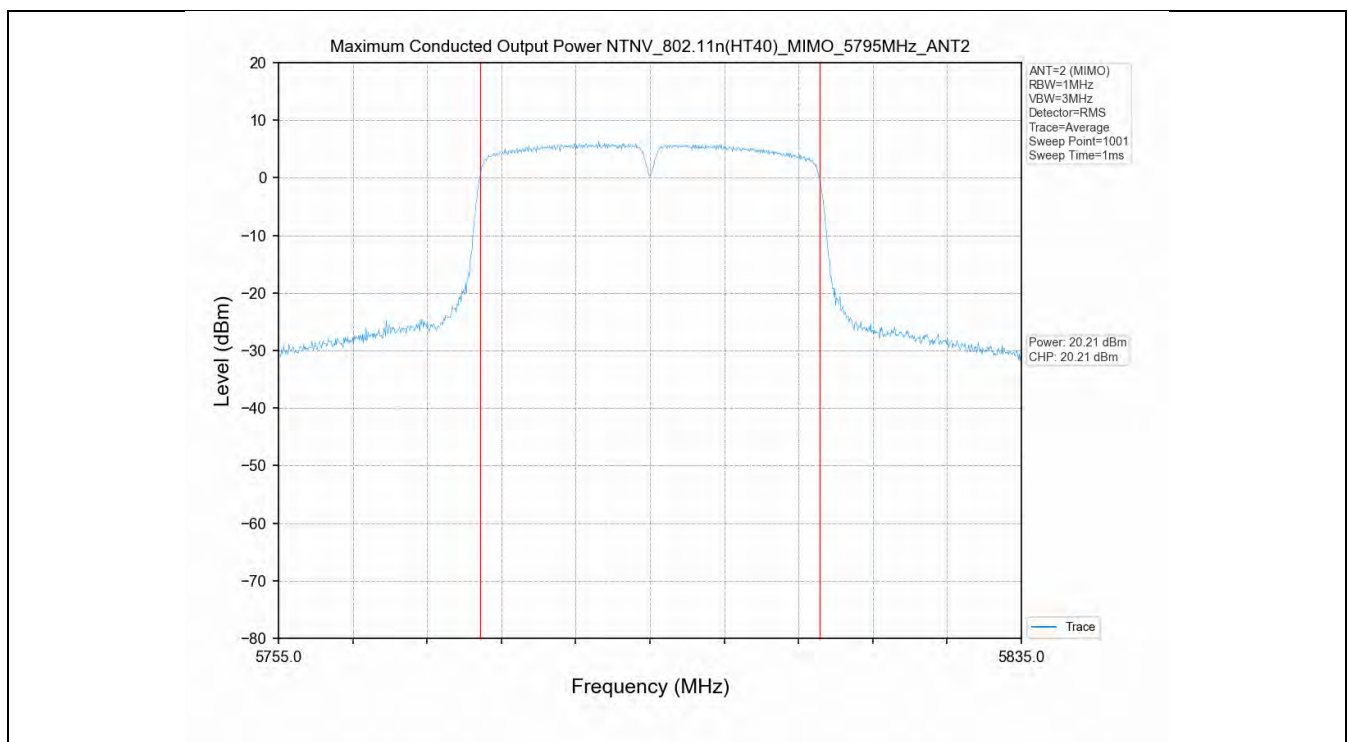
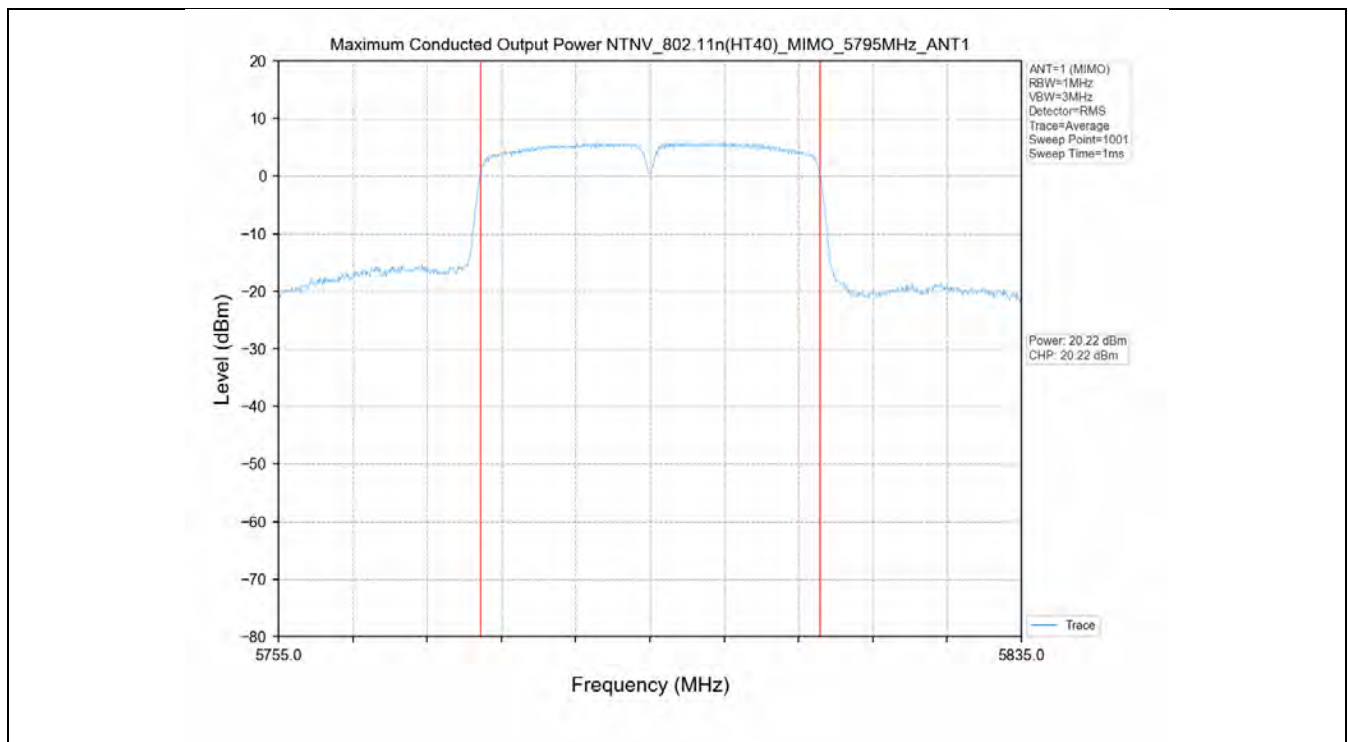


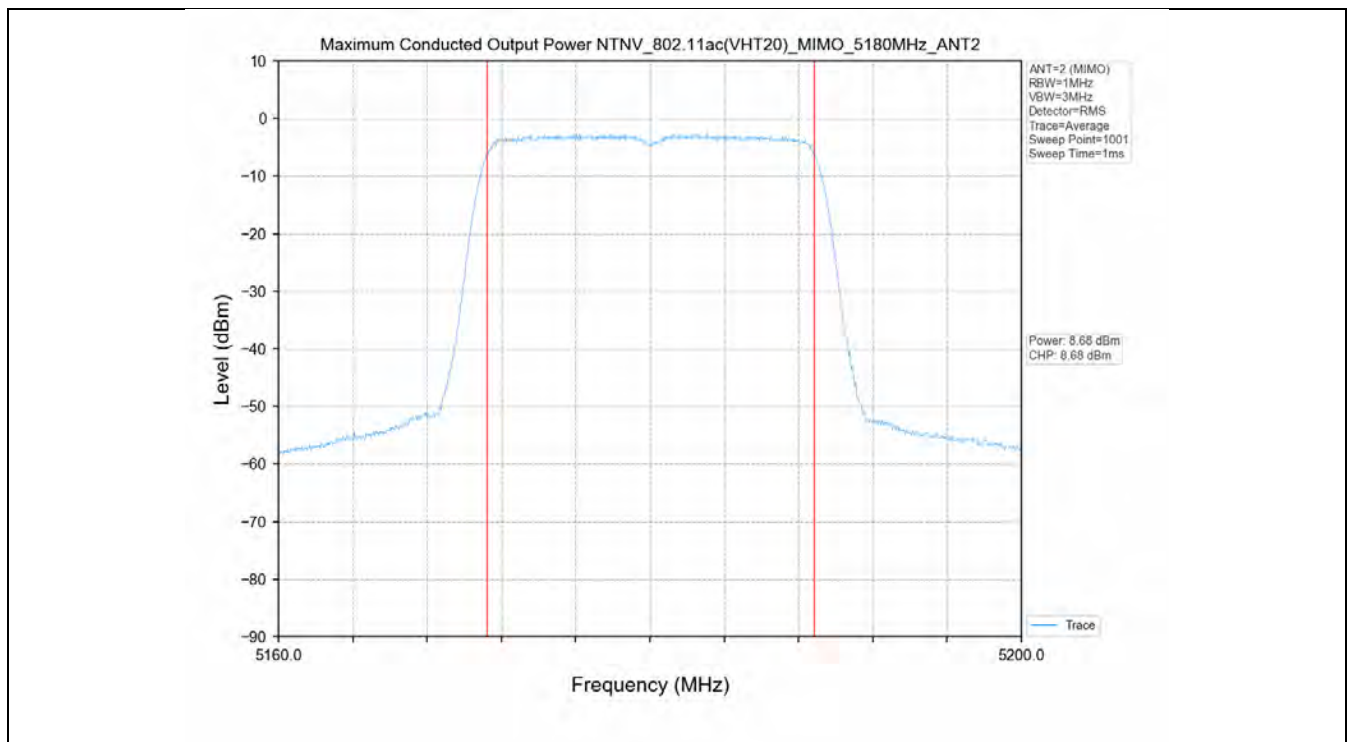
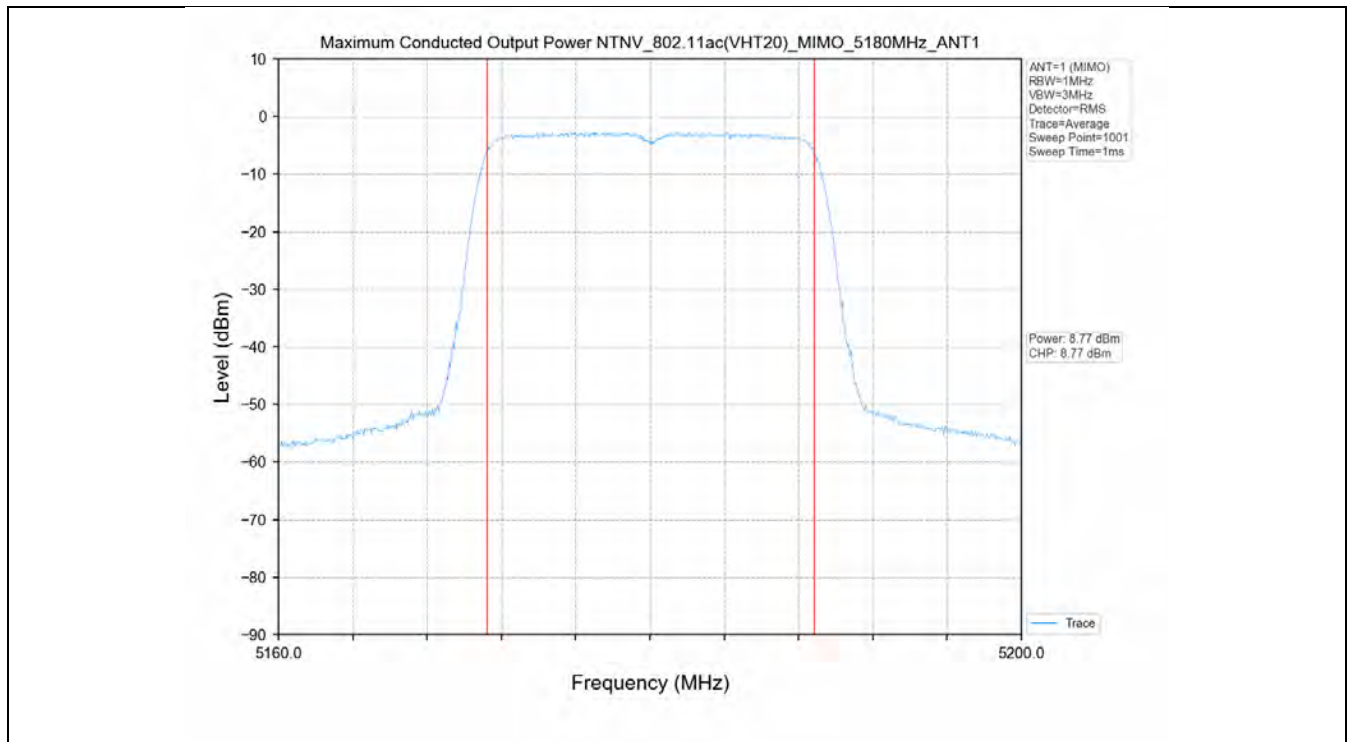
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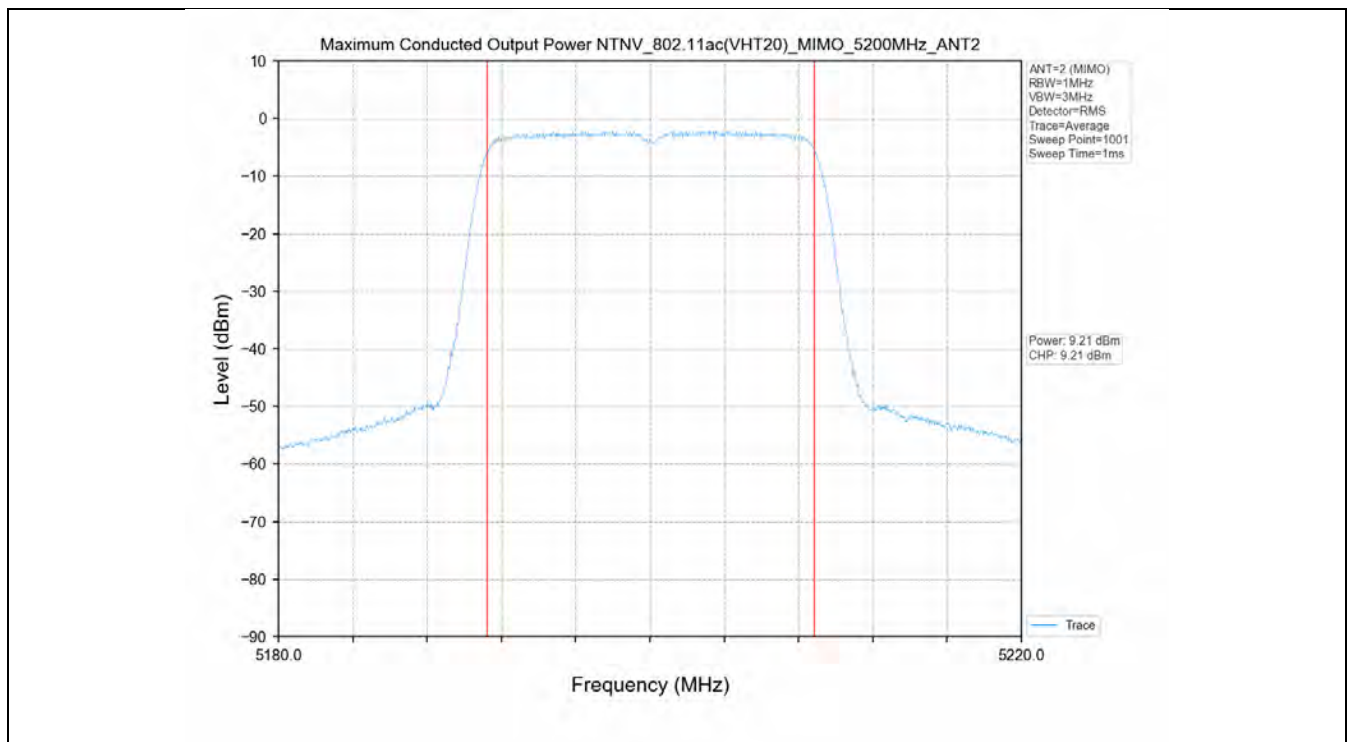
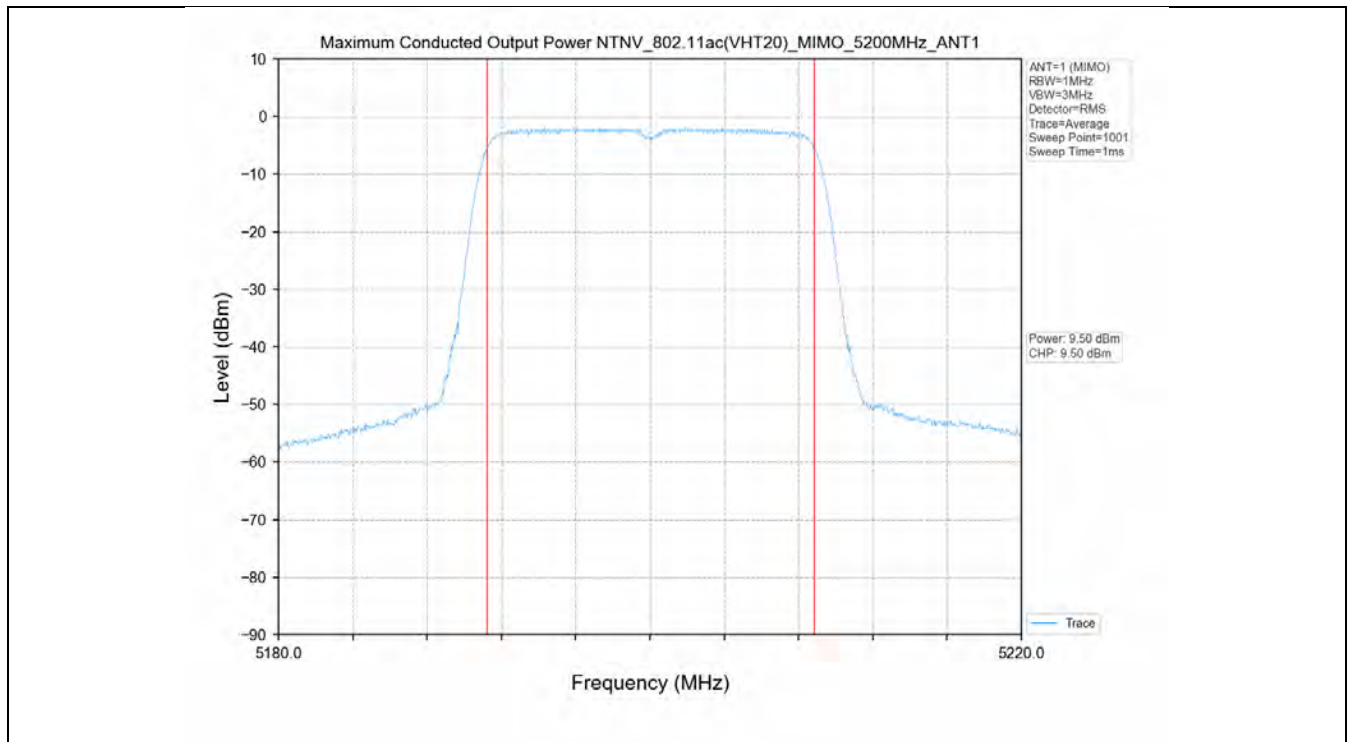


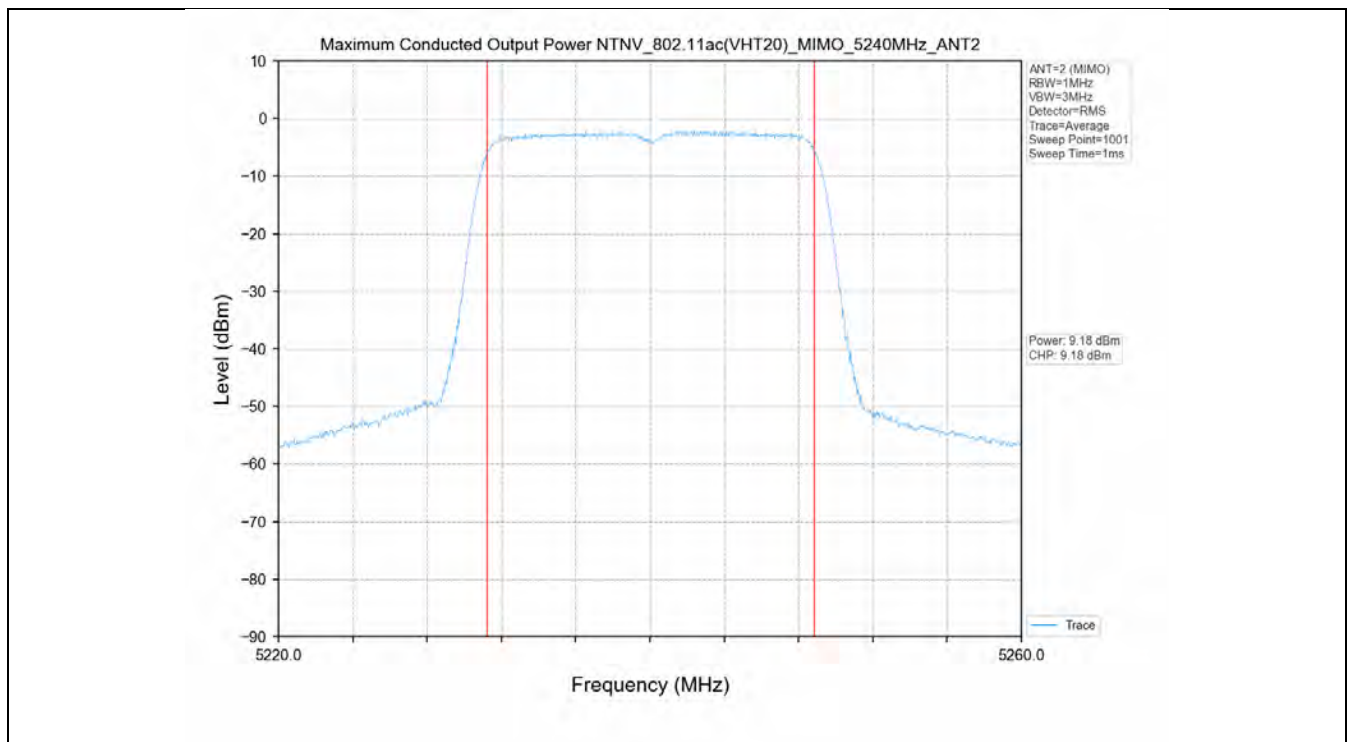
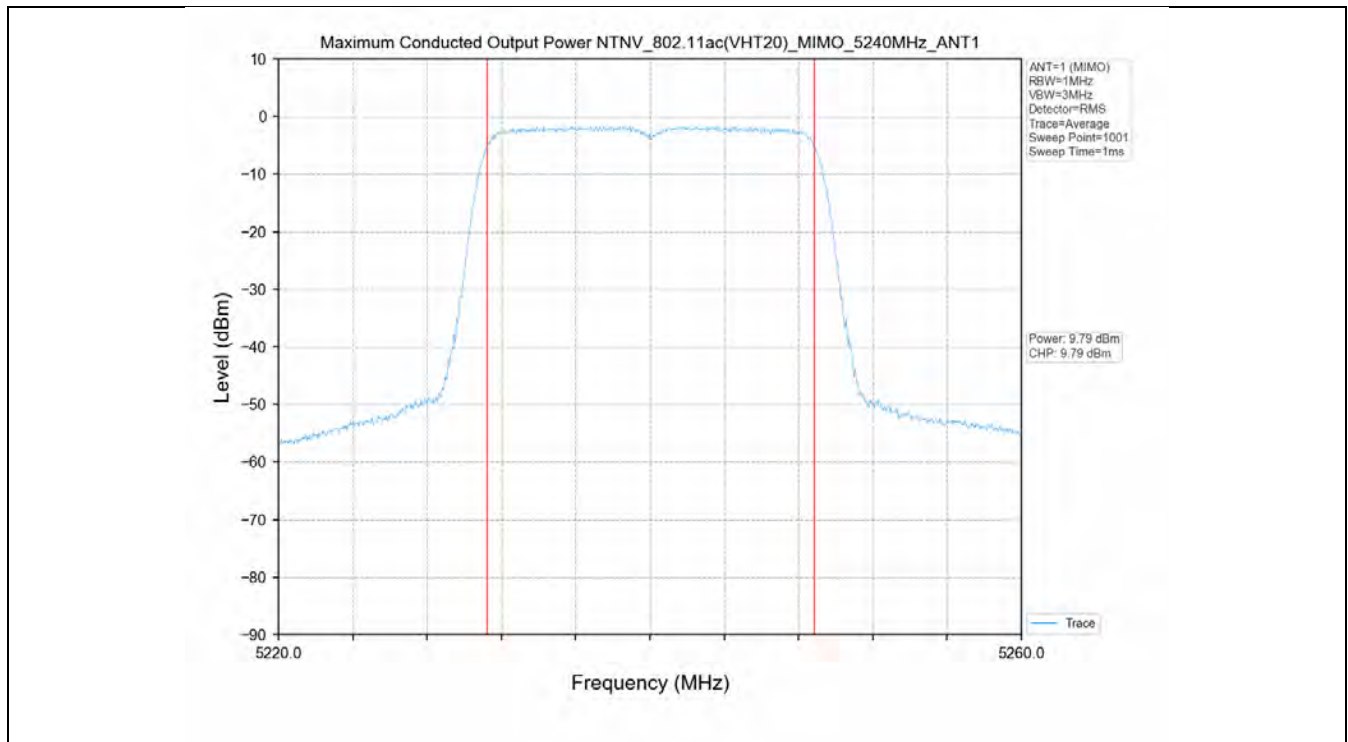


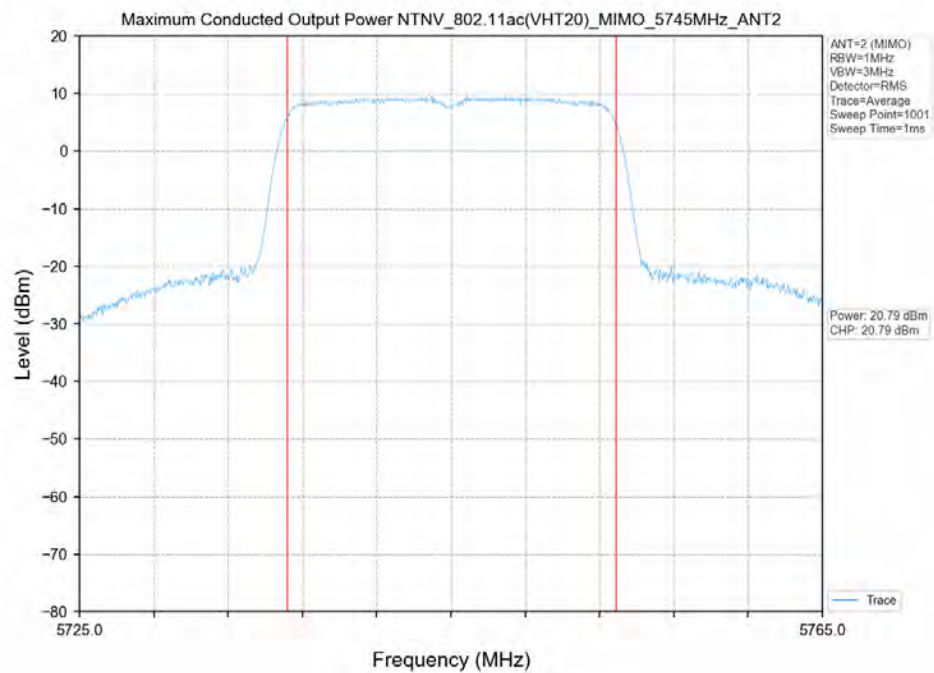
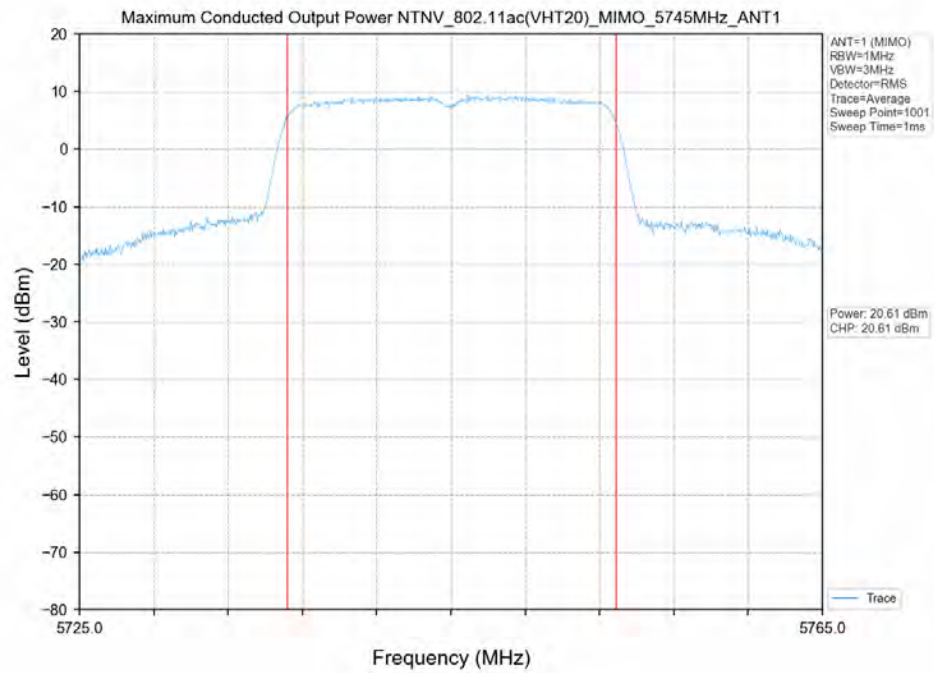


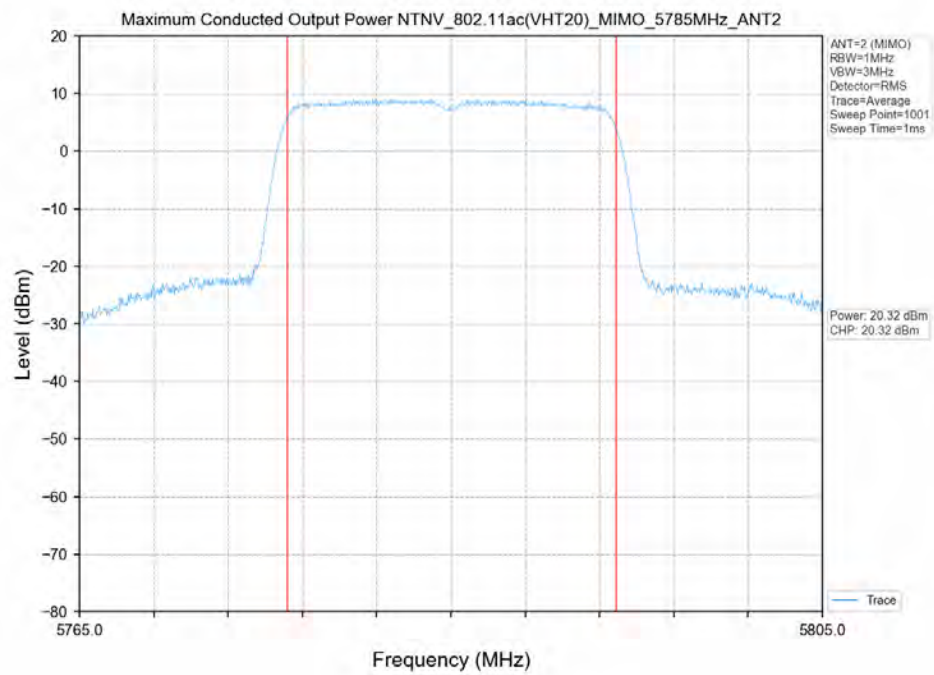
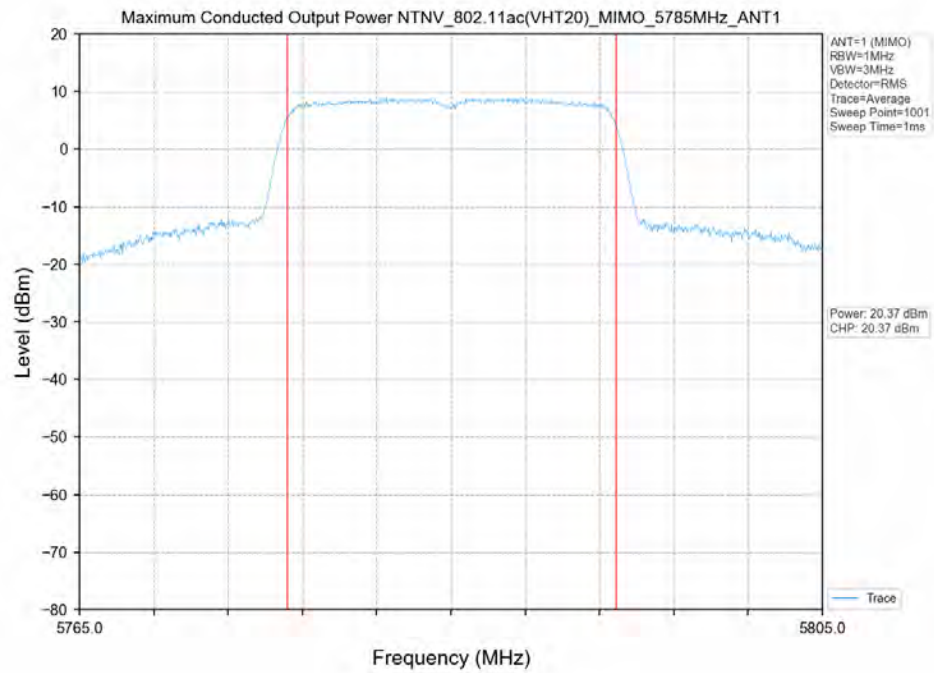


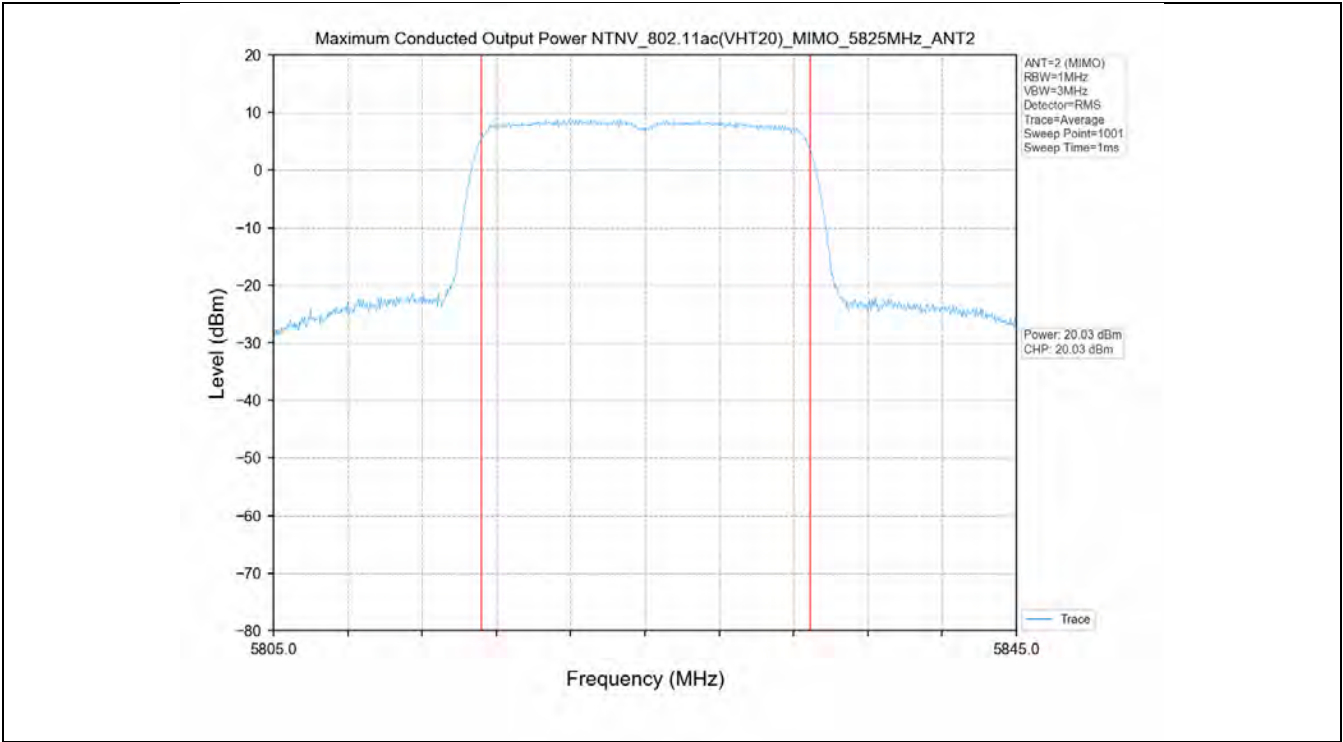
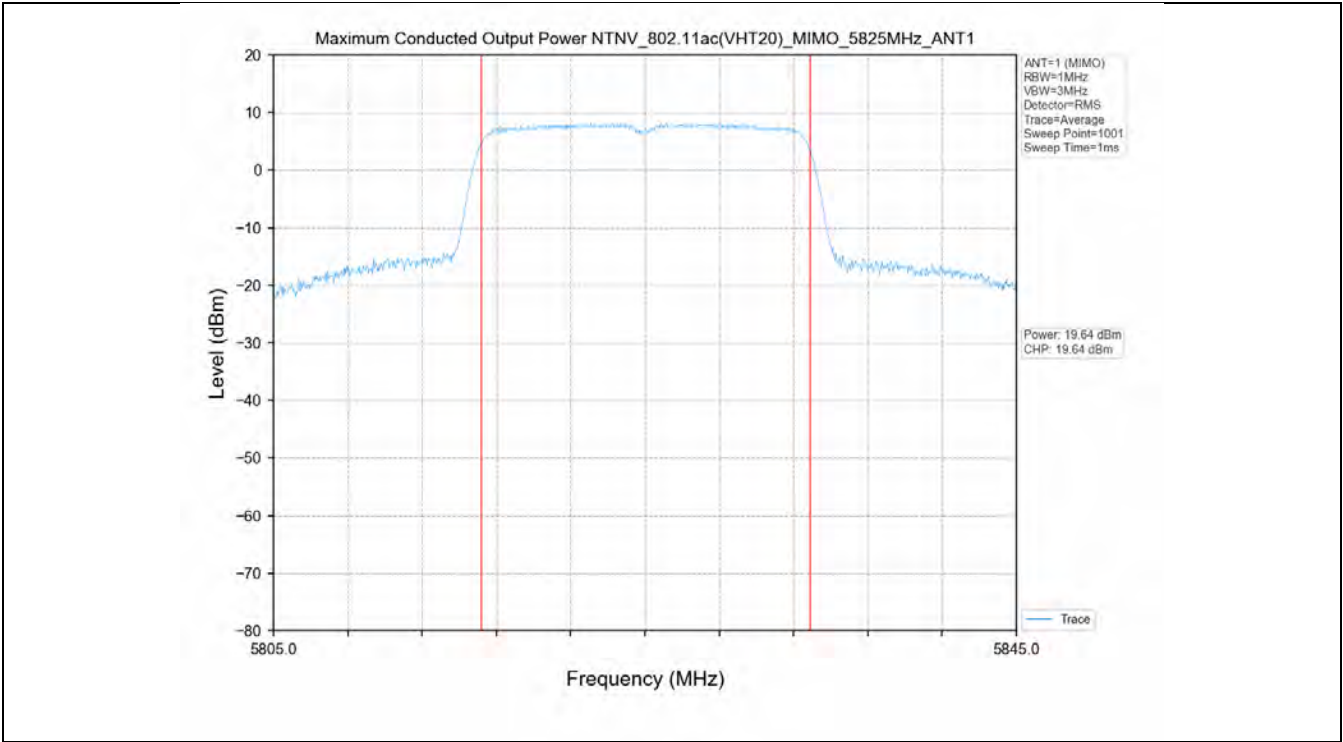
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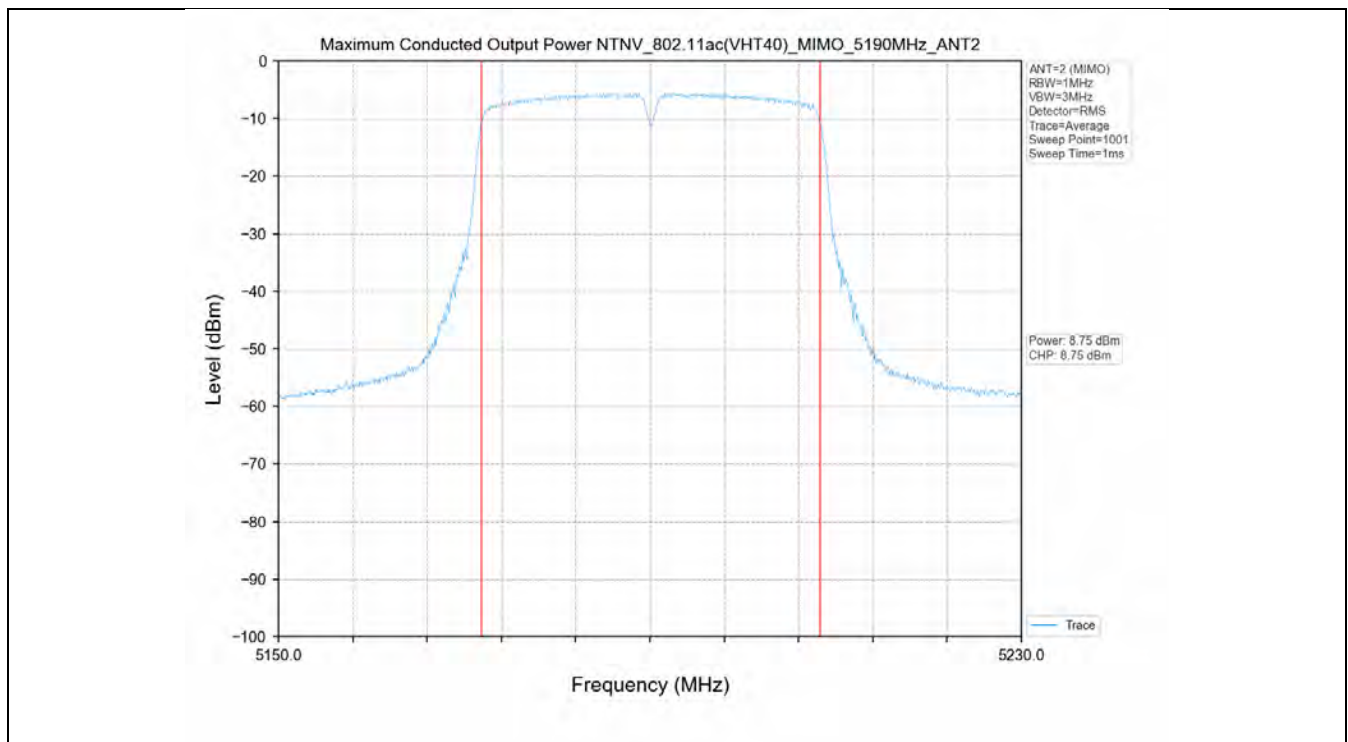
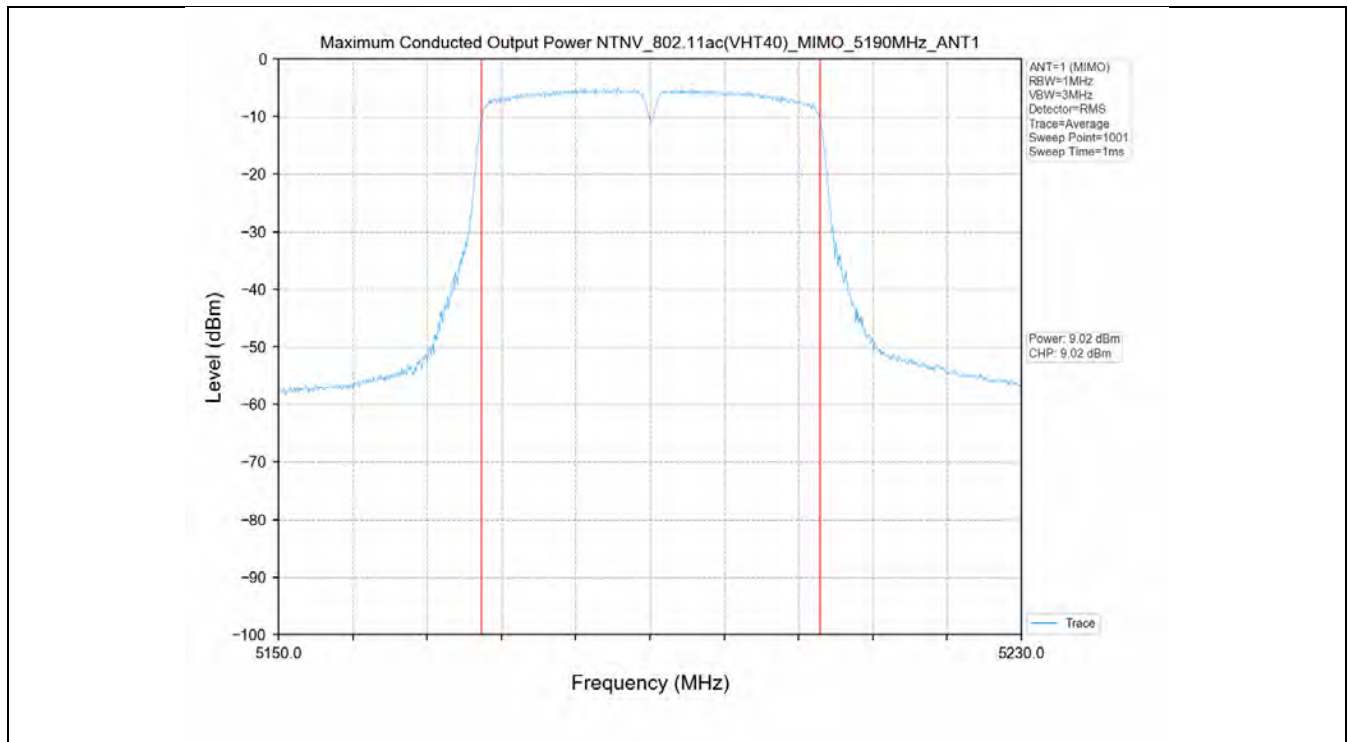


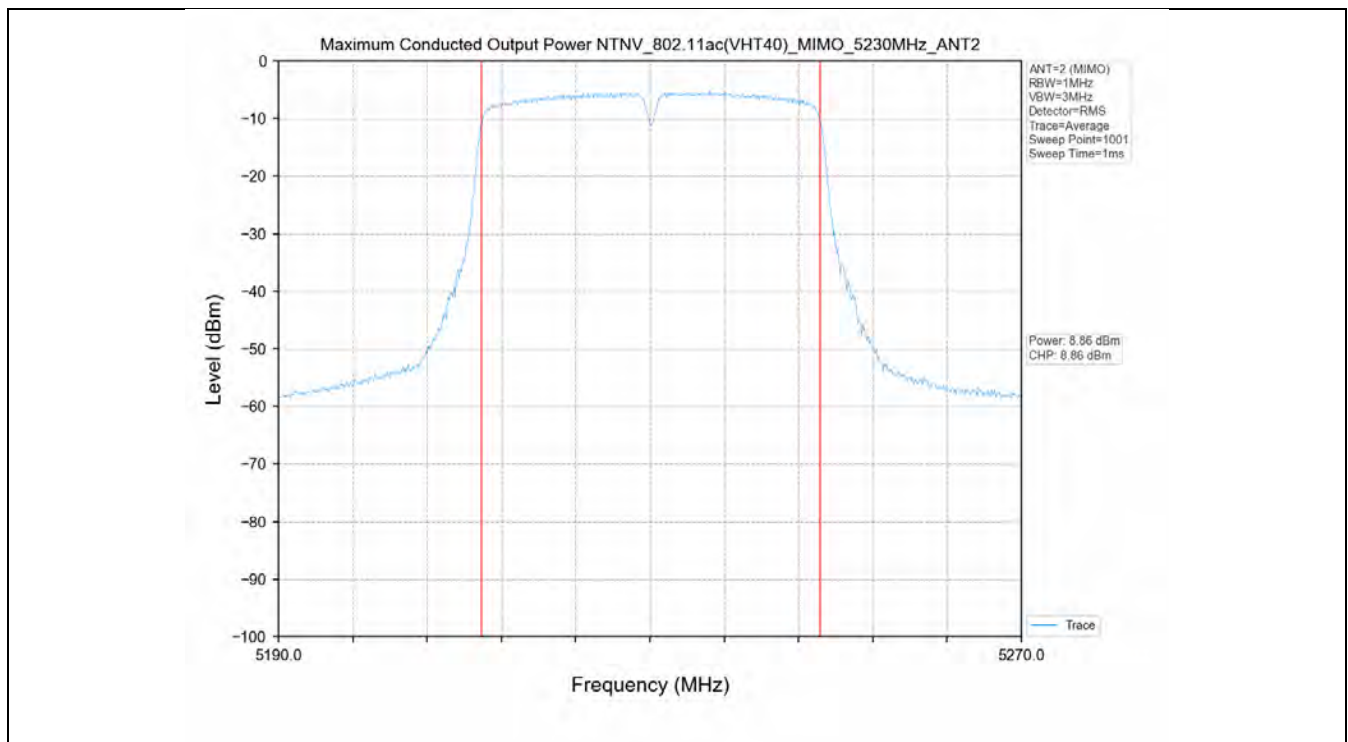
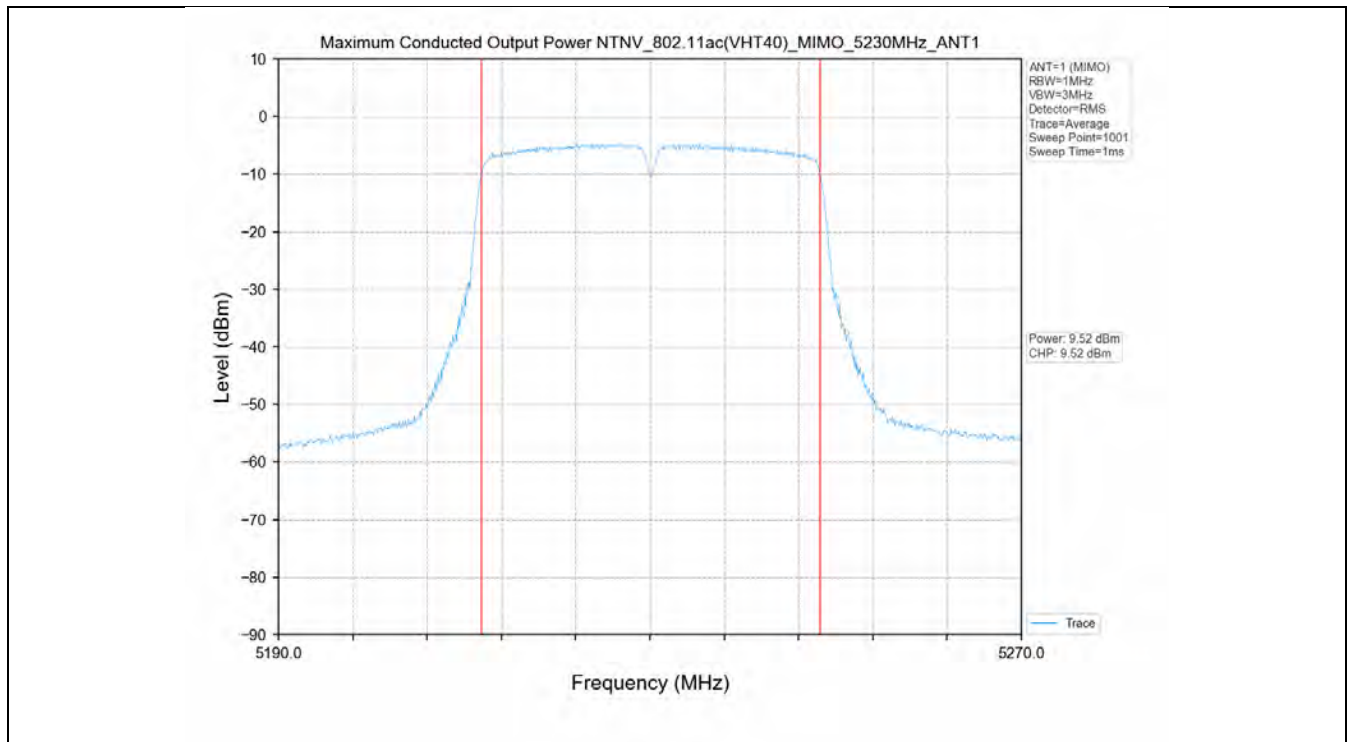


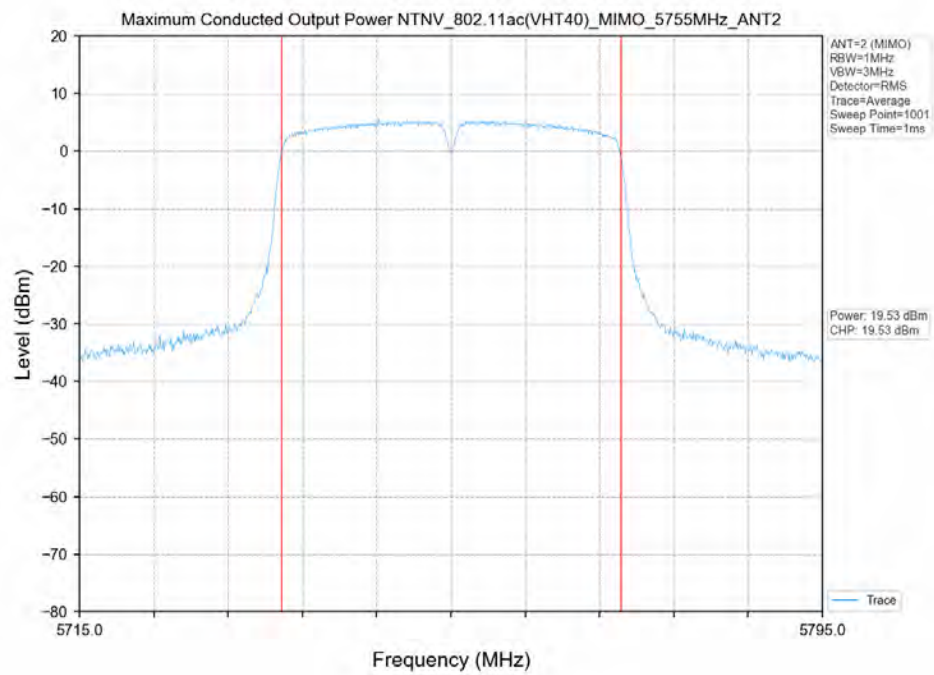
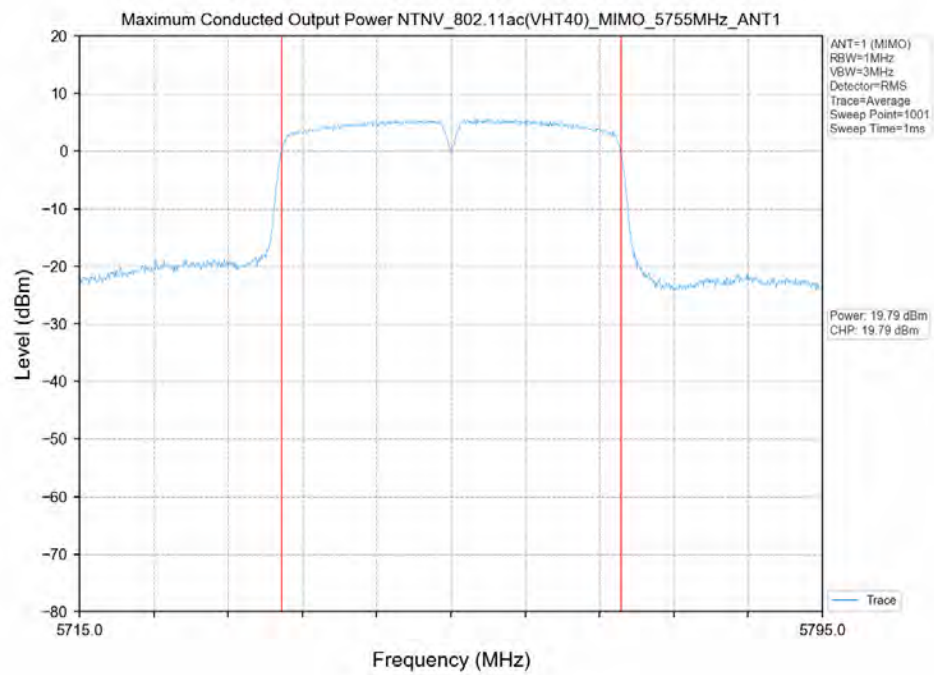


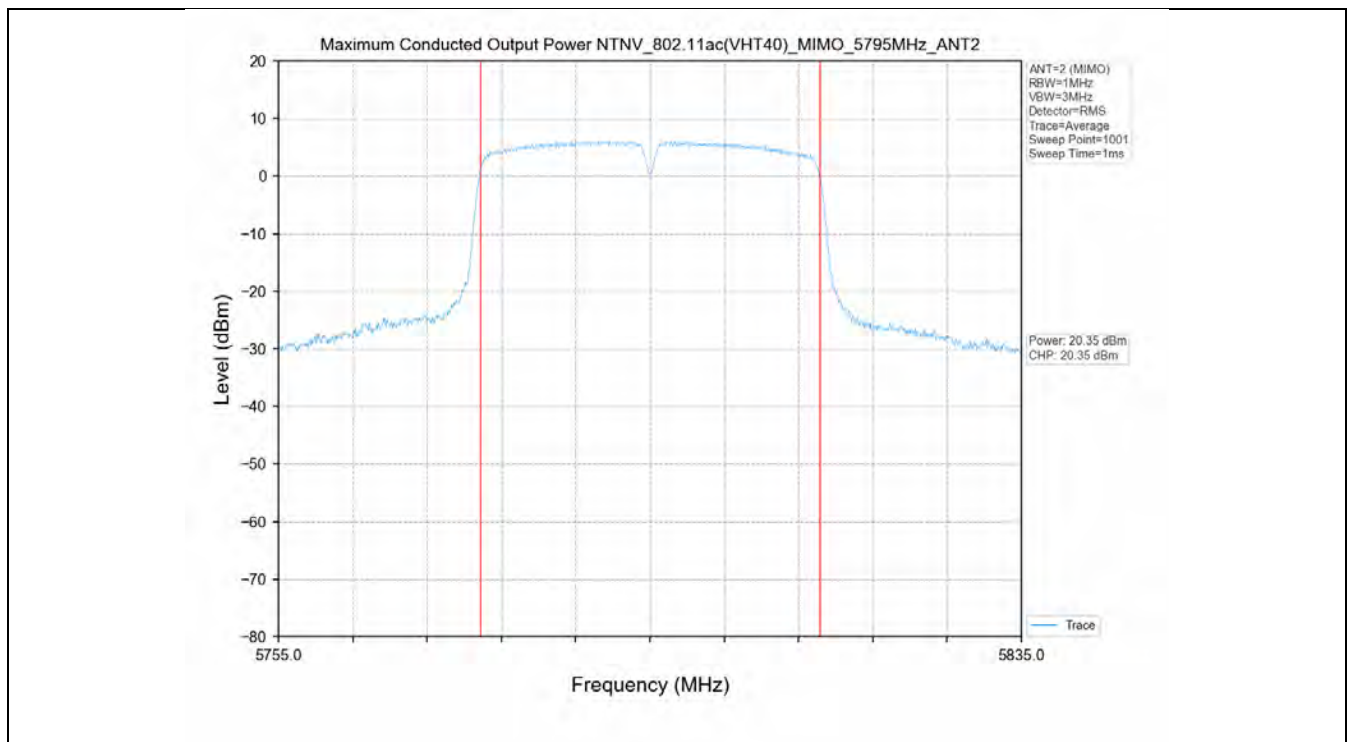
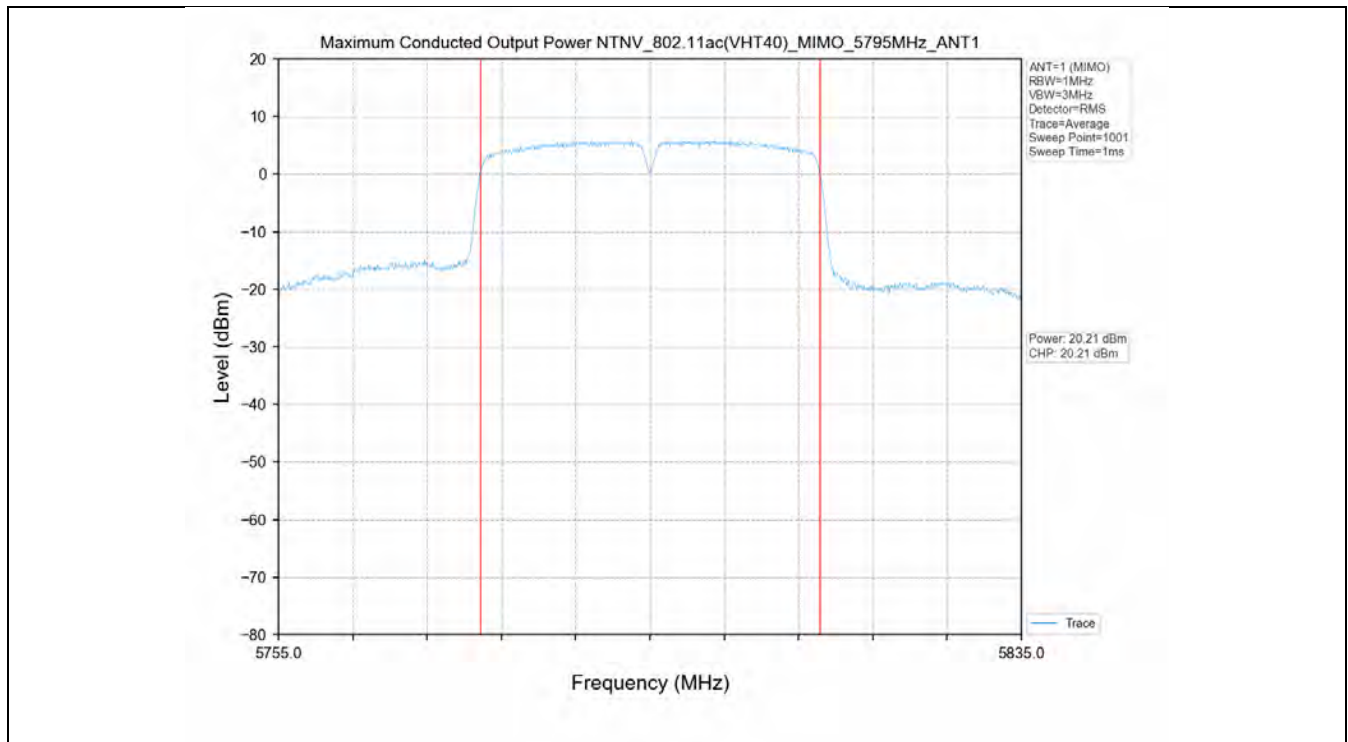






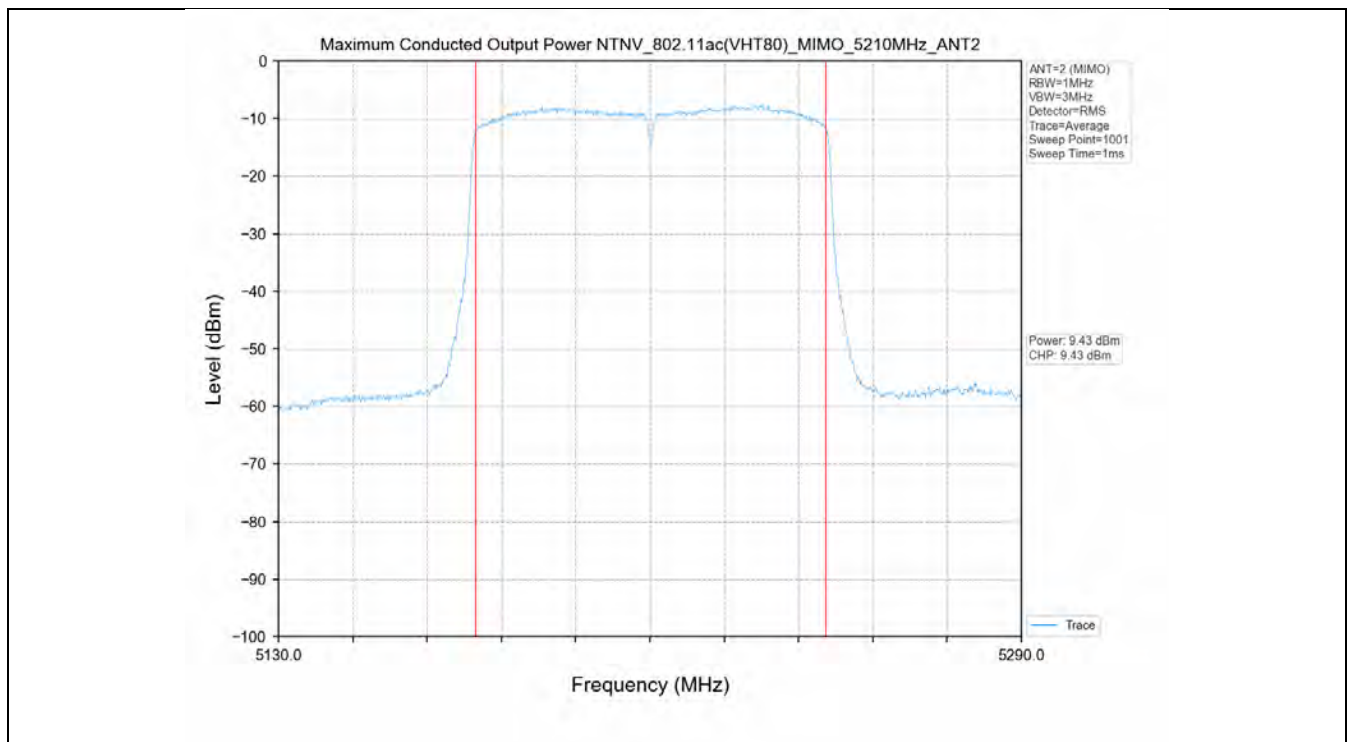
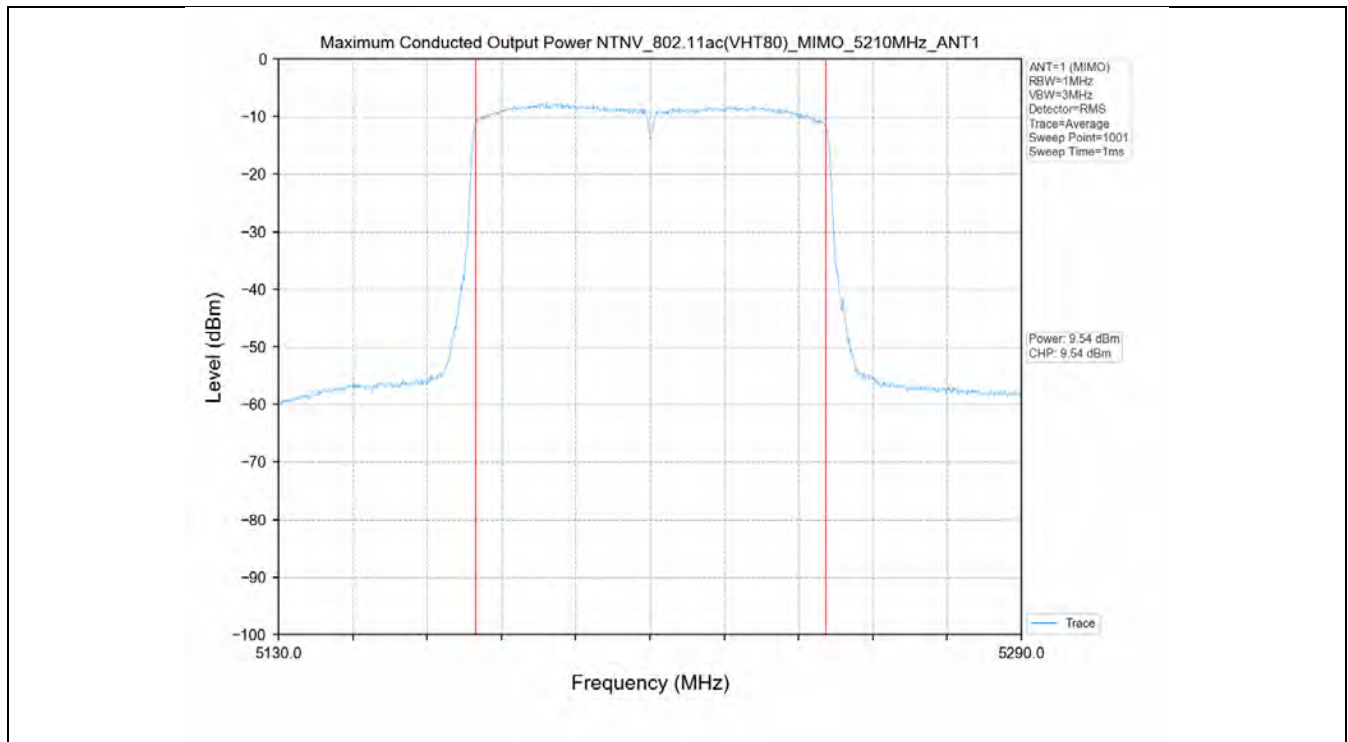


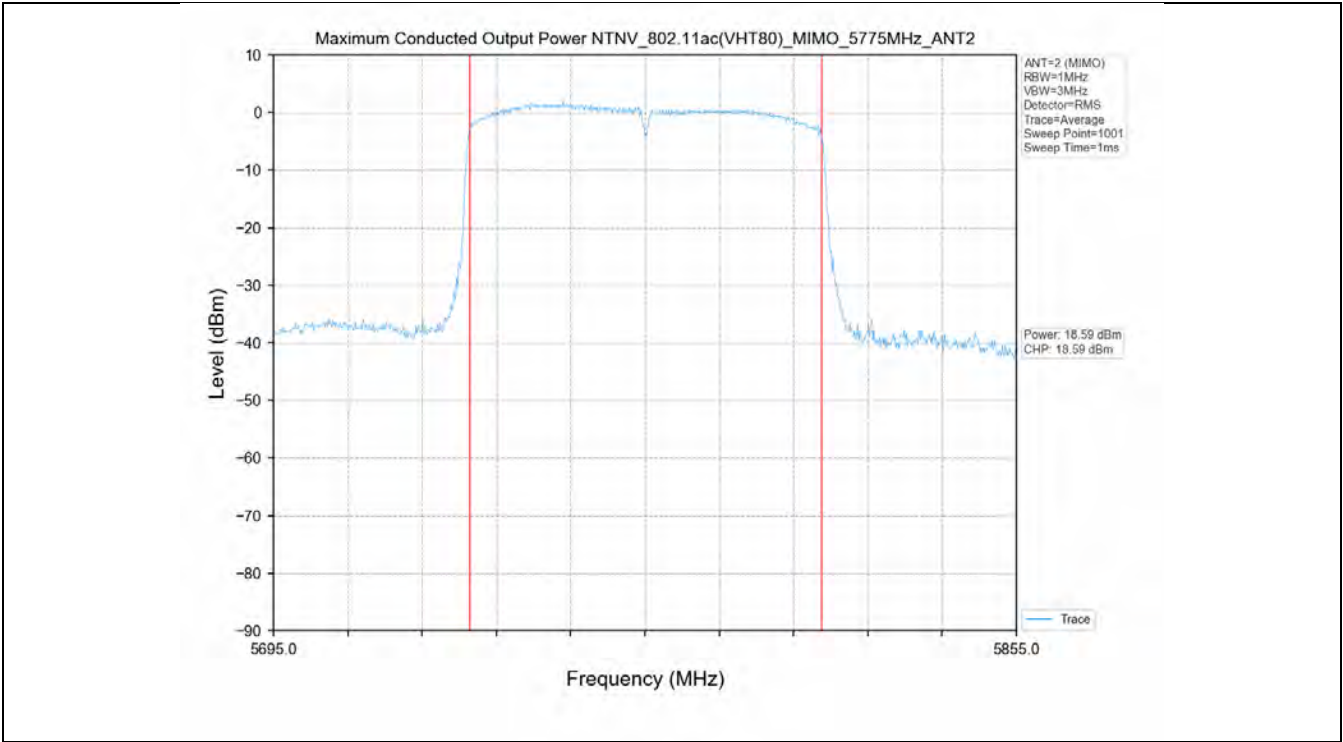
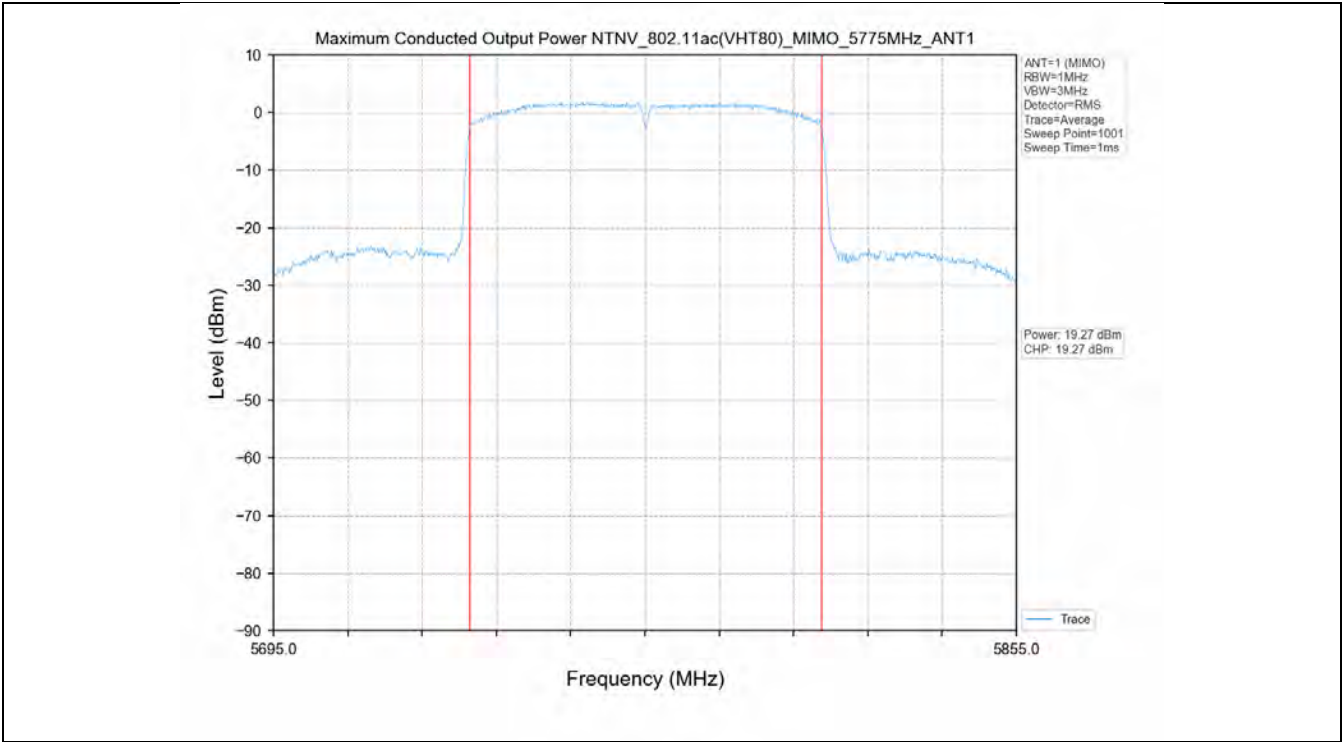






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#### 4. Maximum Power Spectral Density (PSD)

##### 4.1 Test Result

For FCC

| Test Mode       | Frequency (MHz) | Tx Type | Maximum Power Spectral Density (dBm/MHz) |       |       | Limits (dBm/MHz) | Verdict |
|-----------------|-----------------|---------|------------------------------------------|-------|-------|------------------|---------|
|                 |                 |         | Ant 1                                    | Ant 2 | Total |                  |         |
| 802.11a         | 5180            | SISO    | 2.00                                     | 2.08  | /     | ≤11              | PASS    |
|                 | 5200            | SISO    | 2.43                                     | 2.23  | /     | ≤11              | PASS    |
|                 | 5240            | SISO    | 3.10                                     | 2.16  | /     | ≤11              | PASS    |
| 802.11n(HT20)   | 5180            | MIMO    | -2.10                                    | -1.90 | 0.85  | ≤10.84           | PASS    |
|                 | 5200            | MIMO    | -2.86                                    | -3.05 | -0.06 | ≤10.84           | PASS    |
|                 | 5240            | MIMO    | -1.99                                    | -2.86 | 0.47  | ≤10.84           | PASS    |
| 802.11n(HT40)   | 5190            | MIMO    | -5.32                                    | -5.59 | -2.62 | ≤10.84           | PASS    |
|                 | 5230            | MIMO    | -4.56                                    | -5.33 | -2.04 | ≤10.84           | PASS    |
| 802.11ac(VHT20) | 5180            | MIMO    | -2.51                                    | -2.52 | 0.34  | ≤10.84           | PASS    |
|                 | 5200            | MIMO    | -1.81                                    | -2.11 | 1.01  | ≤10.84           | PASS    |
|                 | 5240            | MIMO    | -1.67                                    | -2.20 | 0.96  | ≤10.84           | PASS    |
| 802.11ac(VHT40) | 5190            | MIMO    | -5.12                                    | -5.35 | -2.45 | ≤10.84           | PASS    |
|                 | 5230            | MIMO    | -4.52                                    | -5.17 | -2.09 | ≤10.84           | PASS    |
| 802.11ac(VHT80) | 5210            | MIMO    | -7.53                                    | -7.41 | -4.83 | ≤10.84           | PASS    |

| Test Mode       | Frequency (MHz) | Tx Type | Maximum Power Spectral Density (dBm/500kHz) |       |       | Limits (dBm/500kHz) | Verdict |
|-----------------|-----------------|---------|---------------------------------------------|-------|-------|---------------------|---------|
|                 |                 |         | Ant 1                                       | Ant 2 | Total |                     |         |
| 802.11a         | 5745            | SISO    | 6.68                                        | 6.87  | /     | ≤30                 | PASS    |
|                 | 5785            | SISO    | 6.06                                        | 6.15  | /     | ≤30                 | PASS    |
|                 | 5825            | SISO    | 5.51                                        | 6.00  | /     | ≤30                 | PASS    |
| 802.11n(HT20)   | 5745            | MIMO    | 7.24                                        | 7.32  | 10.23 | ≤29.84              | PASS    |
|                 | 5785            | MIMO    | 6.38                                        | 6.40  | 9.11  | ≤29.84              | PASS    |
|                 | 5825            | MIMO    | 5.48                                        | 6.18  | 8.66  | ≤29.84              | PASS    |
| 802.11n(HT40)   | 5755            | MIMO    | 2.06                                        | 2.17  | 5.01  | ≤29.84              | PASS    |
|                 | 5795            | MIMO    | 2.85                                        | 3.01  | 5.73  | ≤29.84              | PASS    |
| 802.11ac(VHT20) | 5745            | MIMO    | 6.62                                        | 6.57  | 9.39  | ≤29.84              | PASS    |
|                 | 5785            | MIMO    | 6.29                                        | 6.24  | 8.94  | ≤29.84              | PASS    |
|                 | 5825            | MIMO    | 5.49                                        | 5.86  | 8.48  | ≤29.84              | PASS    |
| 802.11ac(VHT40) | 5755            | MIMO    | 2.65                                        | 2.34  | 5.35  | ≤29.84              | PASS    |
|                 | 5795            | MIMO    | 3.24                                        | 3.09  | 6.06  | ≤29.84              | PASS    |
| 802.11ac(VHT80) | 5775            | MIMO    | -1.35                                       | -2.04 | 1.27  | ≤29.84              | PASS    |



For IC

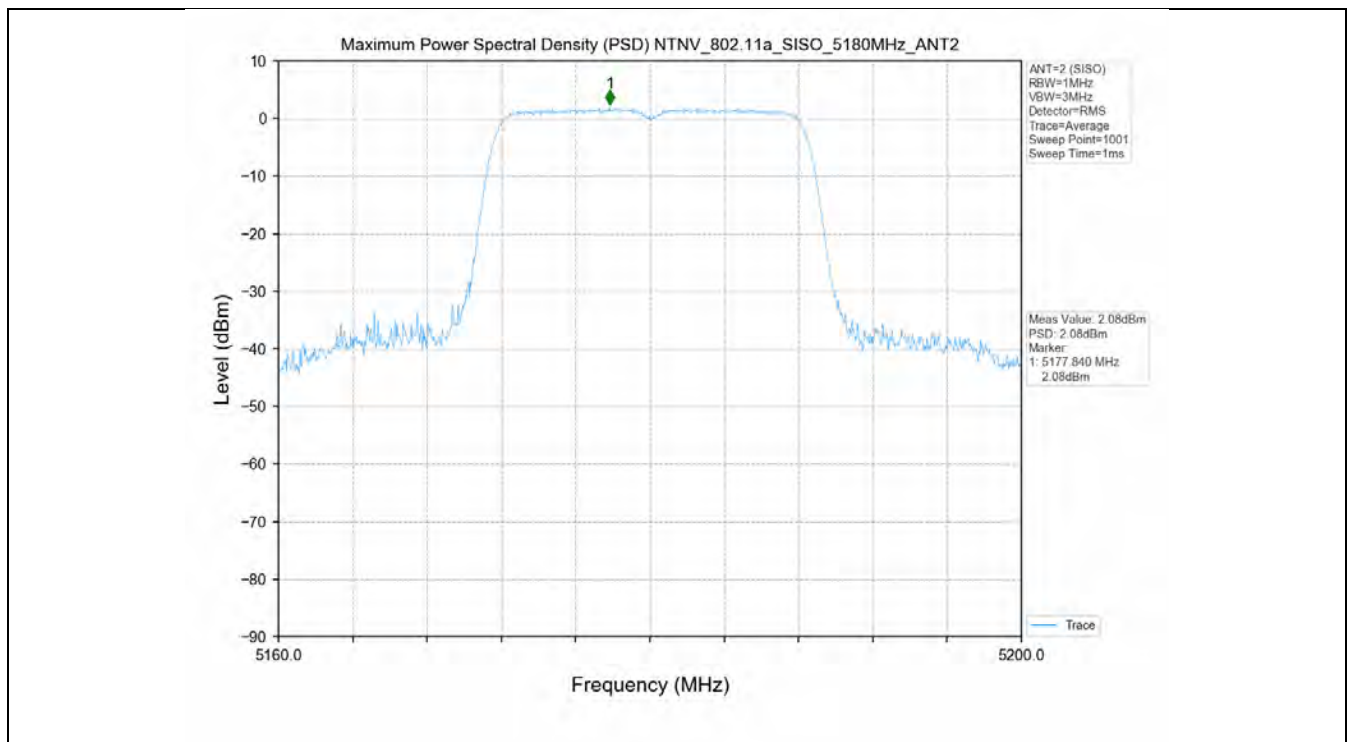
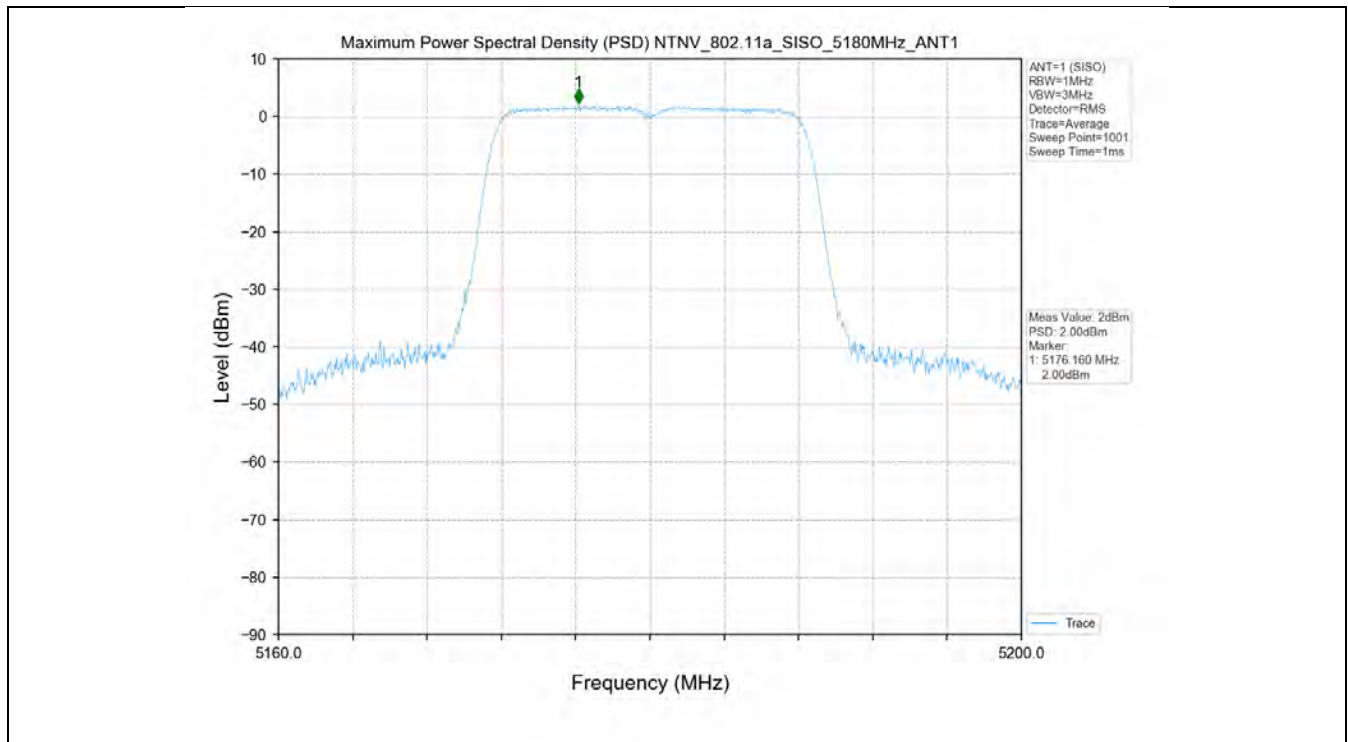
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|------------------|-----------------|---------|------------------------------------------|-------|-------|-----------------------------------------------|-------|-------|------------------|---------|
|                  |                 |         | Ant 1                                    | Ant 2 | Total | Ant 1                                         | Ant 2 | Total |                  |         |
| 802.11a          | 5180            | SISO    | 2.00                                     | 2.08  | /     | 5.15                                          | 5.23  | /     | ≤10              | PASS    |
|                  | 5200            | SISO    | 2.43                                     | 2.23  | /     | 5.58                                          | 5.38  | /     | ≤10              | PASS    |
|                  | 5240            | SISO    | 3.10                                     | 2.16  | /     | 6.25                                          | 5.31  | /     | ≤10              | PASS    |
| 802.11n (HT20)   | 5180            | MIMO    | -2.10                                    | -1.90 | 1.01  | 4.06                                          | 4.26  | 7.17  | ≤10              | PASS    |
|                  | 5200            | MIMO    | -2.86                                    | -3.05 | 0.06  | 3.3                                           | 3.11  | 6.22  | ≤10              | PASS    |
|                  | 5240            | MIMO    | -1.99                                    | -2.86 | 0.61  | 4.17                                          | 3.3   | 6.77  | ≤10              | PASS    |
| 802.11n (HT40)   | 5190            | MIMO    | -5.32                                    | -5.59 | -2.44 | 0.84                                          | 0.57  | 3.72  | ≤10              | PASS    |
|                  | 5230            | MIMO    | -4.56                                    | -5.33 | -1.92 | 1.6                                           | 0.83  | 4.24  | ≤10              | PASS    |
| 802.11ac (VHT20) | 5180            | MIMO    | -2.51                                    | -2.52 | 0.50  | 3.65                                          | 3.64  | 6.66  | ≤10              | PASS    |
|                  | 5200            | MIMO    | -1.81                                    | -2.11 | 1.05  | 4.35                                          | 4.05  | 7.21  | ≤10              | PASS    |
|                  | 5240            | MIMO    | -1.67                                    | -2.20 | 1.08  | 4.49                                          | 3.96  | 7.24  | ≤10              | PASS    |
| 802.11ac (VHT40) | 5190            | MIMO    | -5.12                                    | -5.35 | -2.22 | 1.04                                          | 0.81  | 3.94  | ≤10              | PASS    |
|                  | 5230            | MIMO    | -4.52                                    | -5.17 | -1.82 | 1.64                                          | 0.99  | 4.34  | ≤10              | PASS    |
| 802.11ac (VHT80) | 5210            | MIMO    | -7.53                                    | -7.41 | -4.46 | -1.37                                         | -1.25 | 1.70  | ≤10              | PASS    |

| Test Mode       | Frequency (MHz) | Tx Type | Maximum Power Spectral Density (dBm/500kHz) |       |       | Limits (dBm/500kHz) | Verdict |
|-----------------|-----------------|---------|---------------------------------------------|-------|-------|---------------------|---------|
|                 |                 |         | Ant 1                                       | Ant 2 | Total |                     |         |
| 802.11a         | 5745            | SISO    | 6.68                                        | 6.87  | /     | ≤29.84              | PASS    |
|                 | 5785            | SISO    | 6.06                                        | 6.15  | /     | ≤29.84              | PASS    |
|                 | 5825            | SISO    | 5.51                                        | 6.00  | /     | ≤29.84              | PASS    |
| 802.11n(HT20)   | 5745            | MIMO    | 7.24                                        | 7.32  | 10.23 | ≤29.84              | PASS    |
|                 | 5785            | MIMO    | 6.38                                        | 6.40  | 9.11  | ≤29.84              | PASS    |
|                 | 5825            | MIMO    | 5.48                                        | 6.18  | 8.66  | ≤29.84              | PASS    |
| 802.11n(HT40)   | 5755            | MIMO    | 2.06                                        | 2.17  | 5.01  | ≤29.84              | PASS    |
|                 | 5795            | MIMO    | 2.85                                        | 3.01  | 5.73  | ≤29.84              | PASS    |
| 802.11ac(VHT20) | 5745            | MIMO    | 6.62                                        | 6.57  | 9.39  | ≤29.84              | PASS    |
|                 | 5785            | MIMO    | 6.29                                        | 6.24  | 8.94  | ≤29.84              | PASS    |
|                 | 5825            | MIMO    | 5.49                                        | 5.86  | 8.48  | ≤29.84              | PASS    |
| 802.11ac(VHT40) | 5755            | MIMO    | 2.65                                        | 2.34  | 5.35  | ≤29.84              | PASS    |
|                 | 5795            | MIMO    | 3.24                                        | 3.09  | 6.06  | ≤29.84              | PASS    |
| 802.11ac(VHT80) | 5775            | MIMO    | -1.35                                       | -2.04 | 1.27  | ≤29.84              | PASS    |

4.2 Test Graph

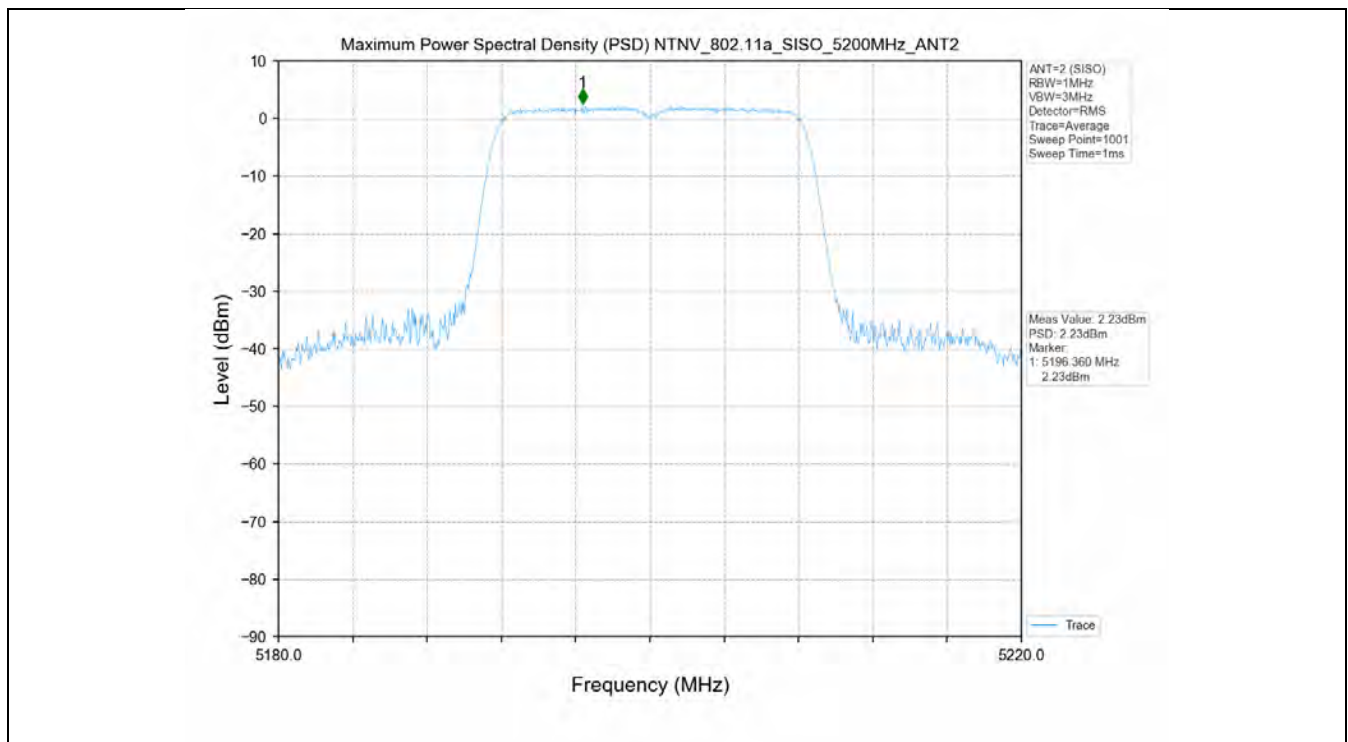
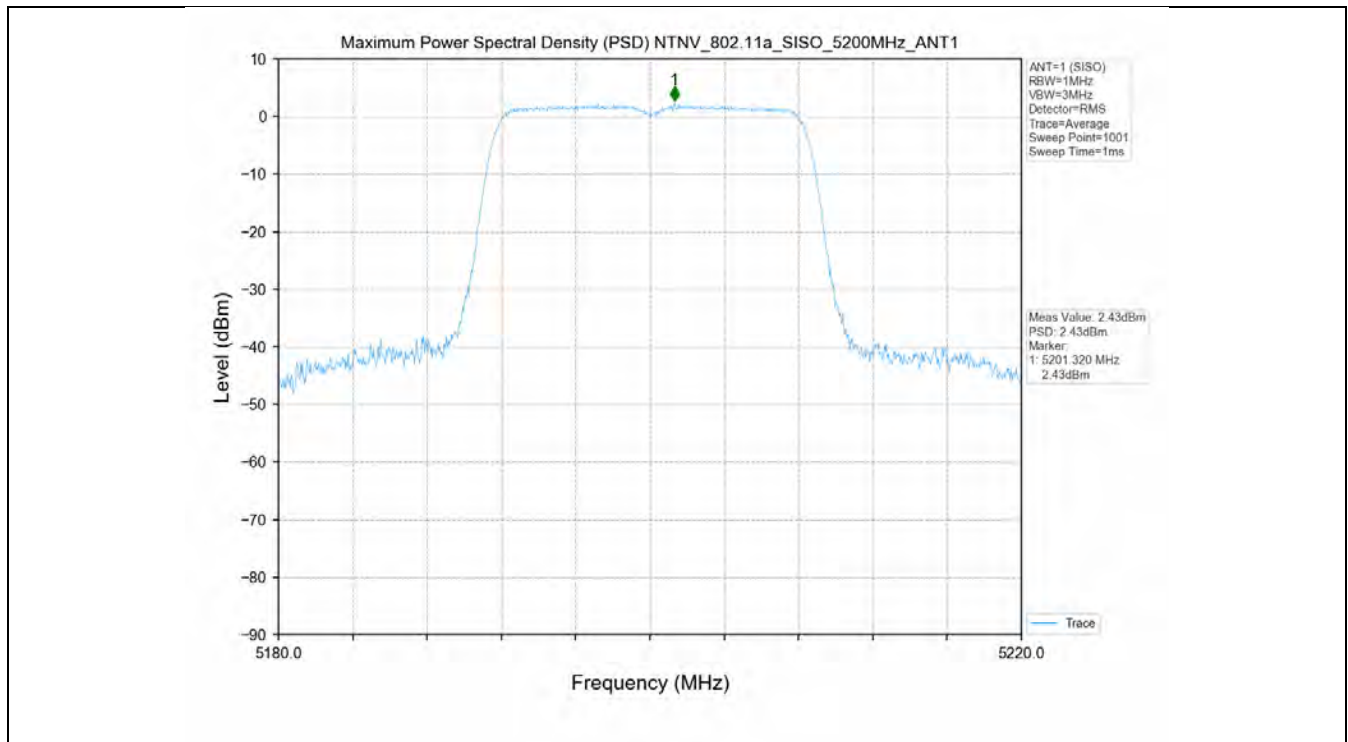


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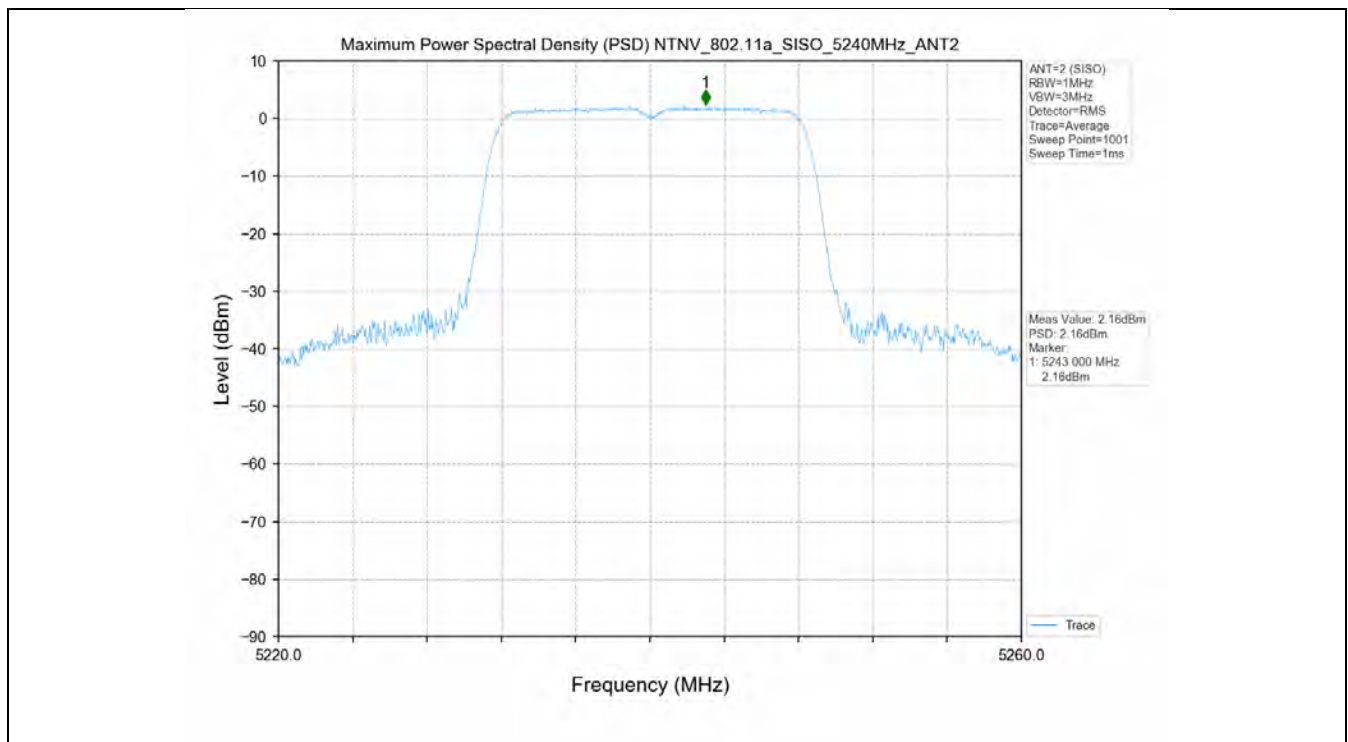
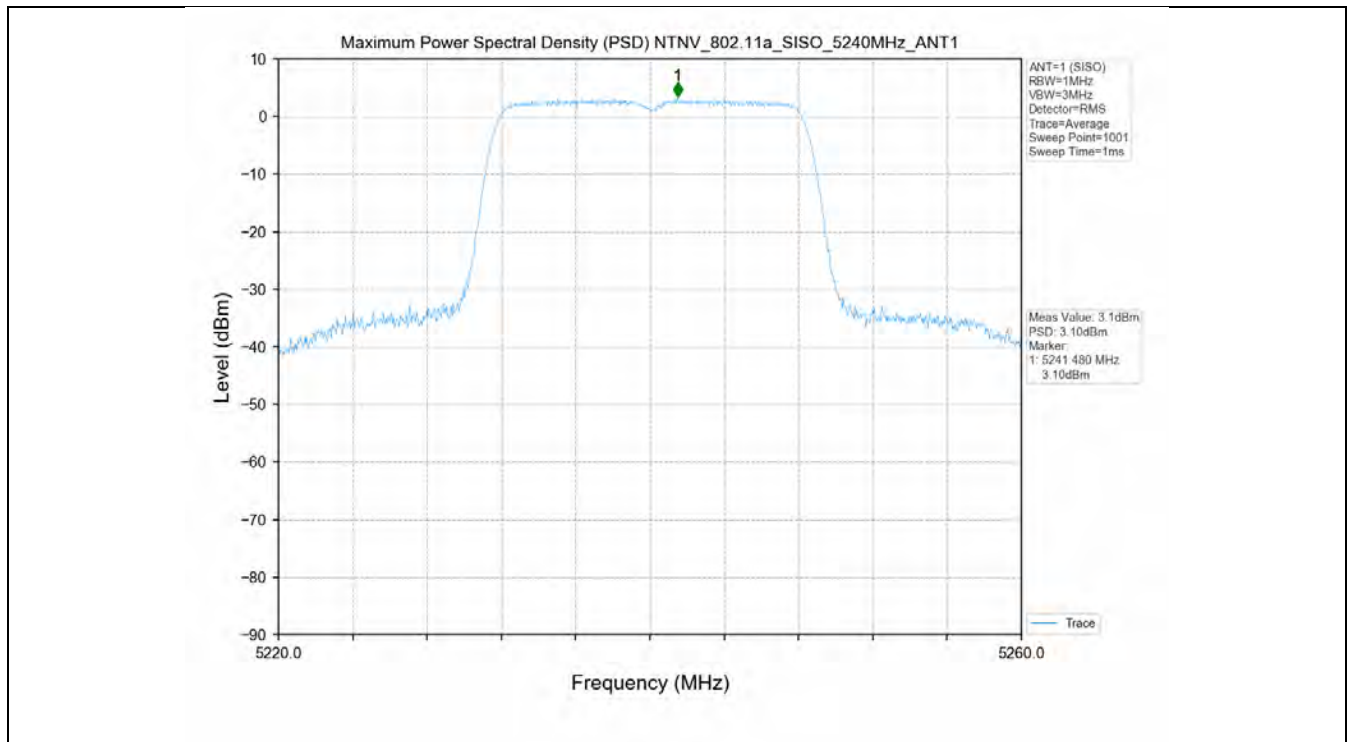


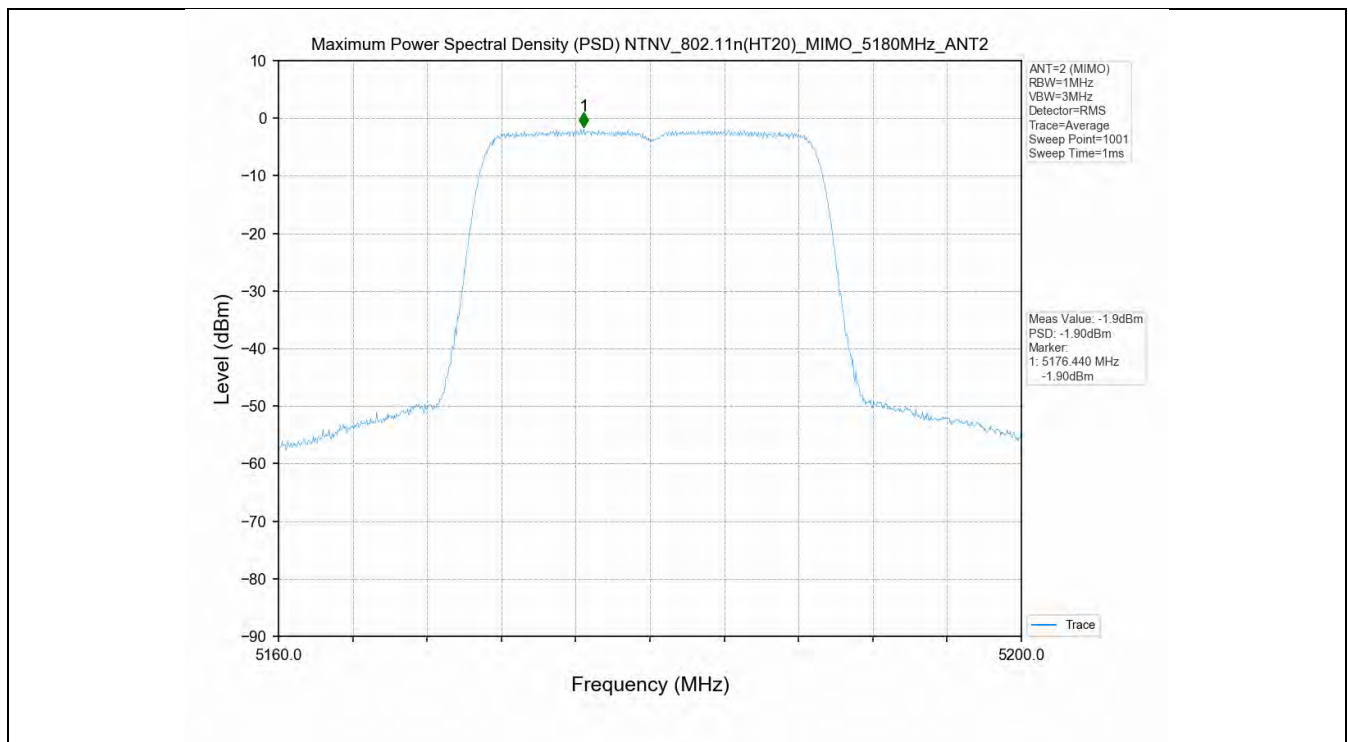
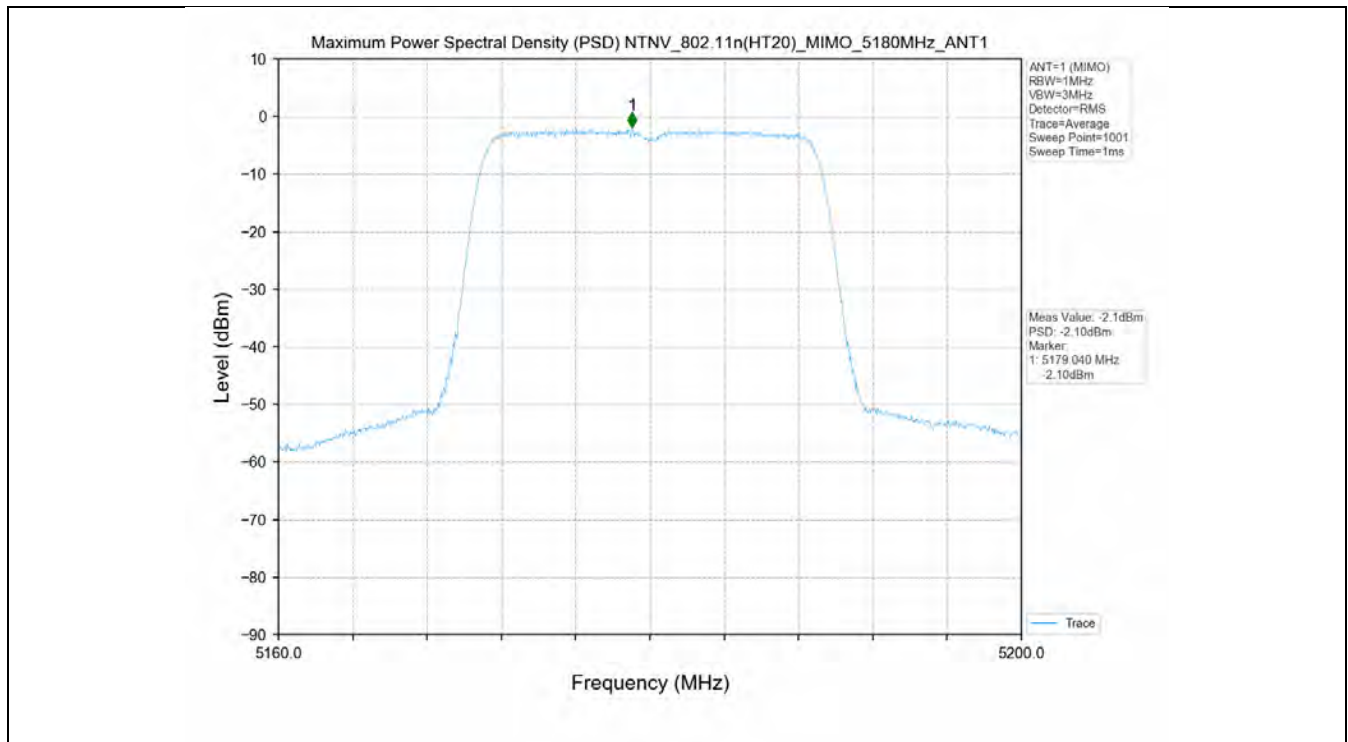
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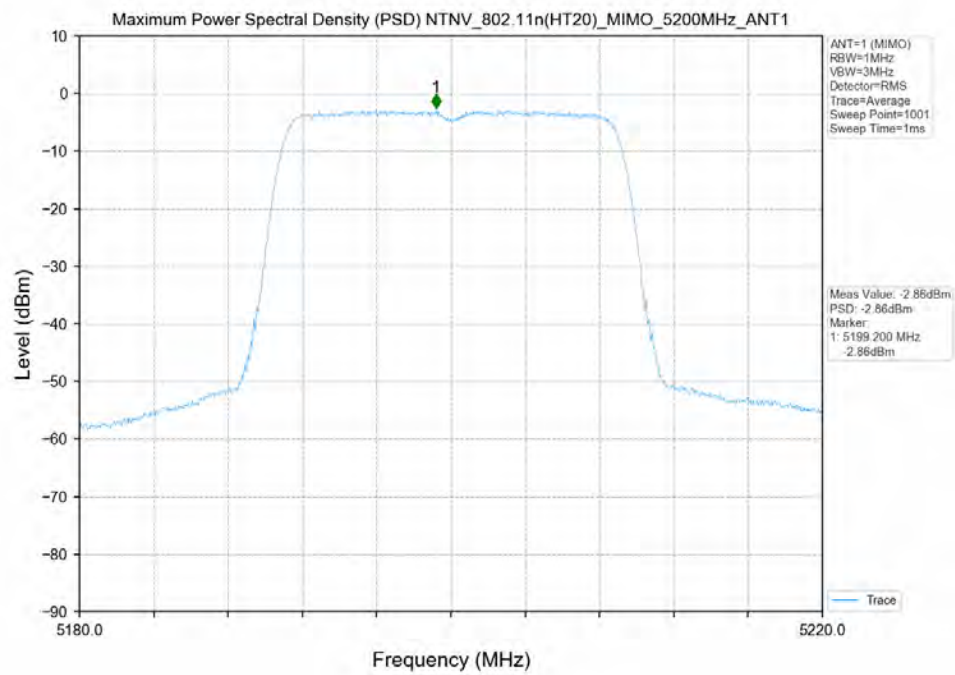
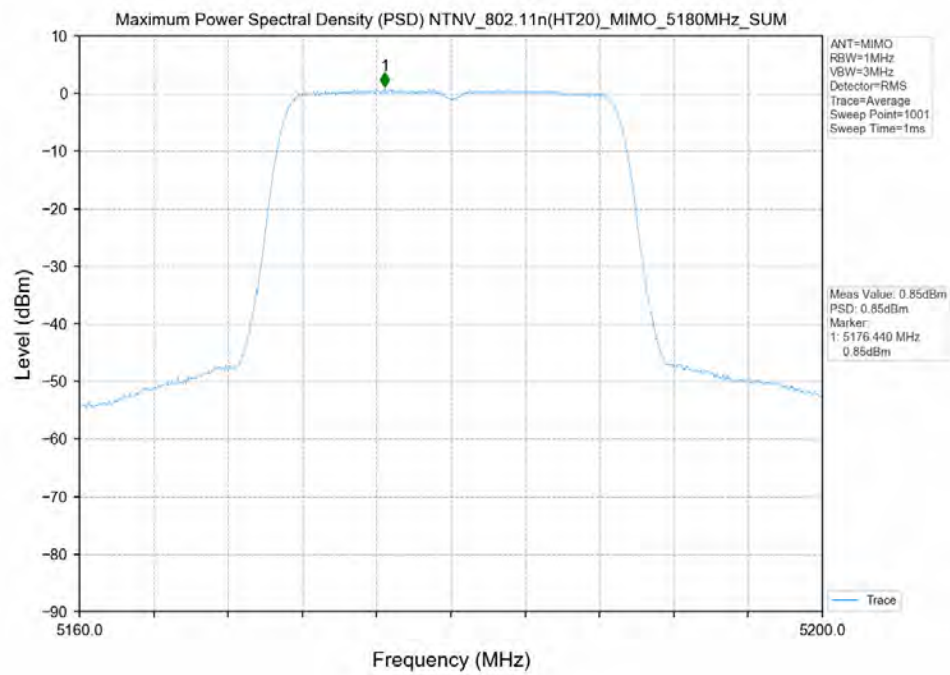




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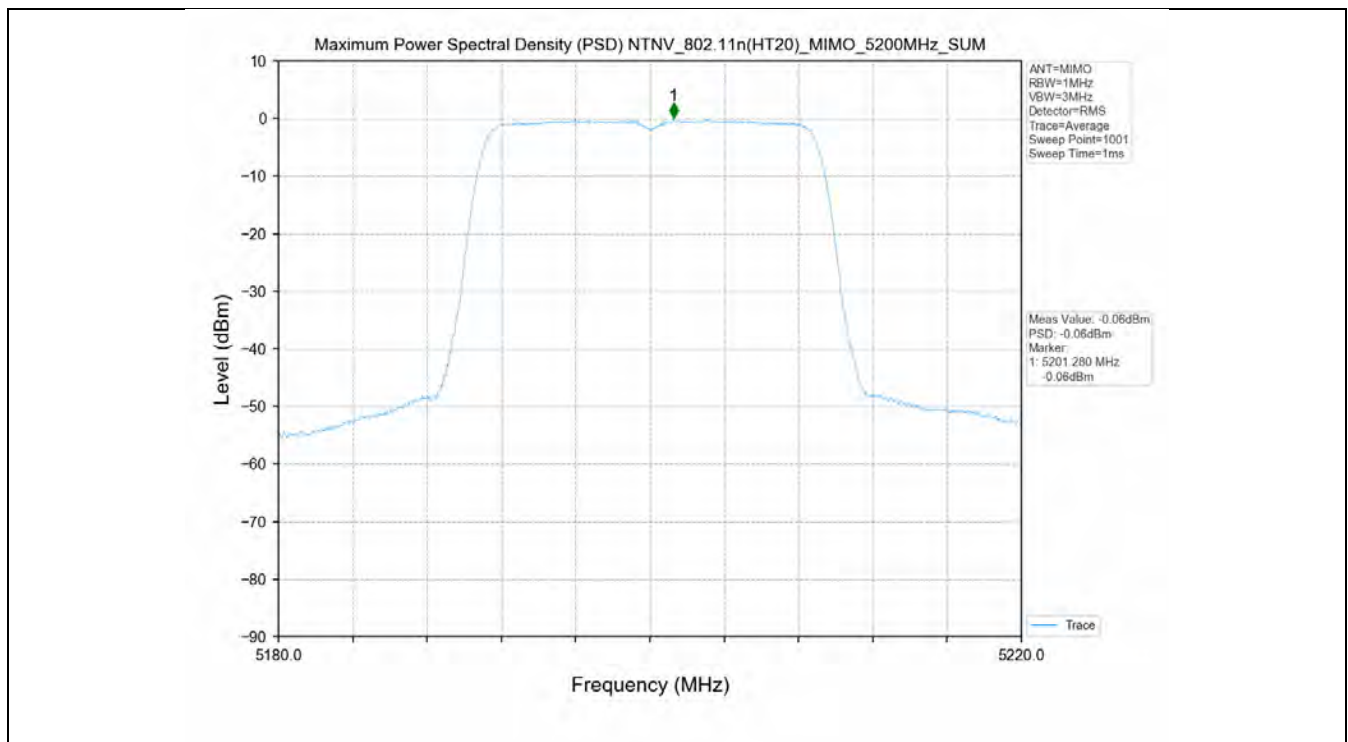
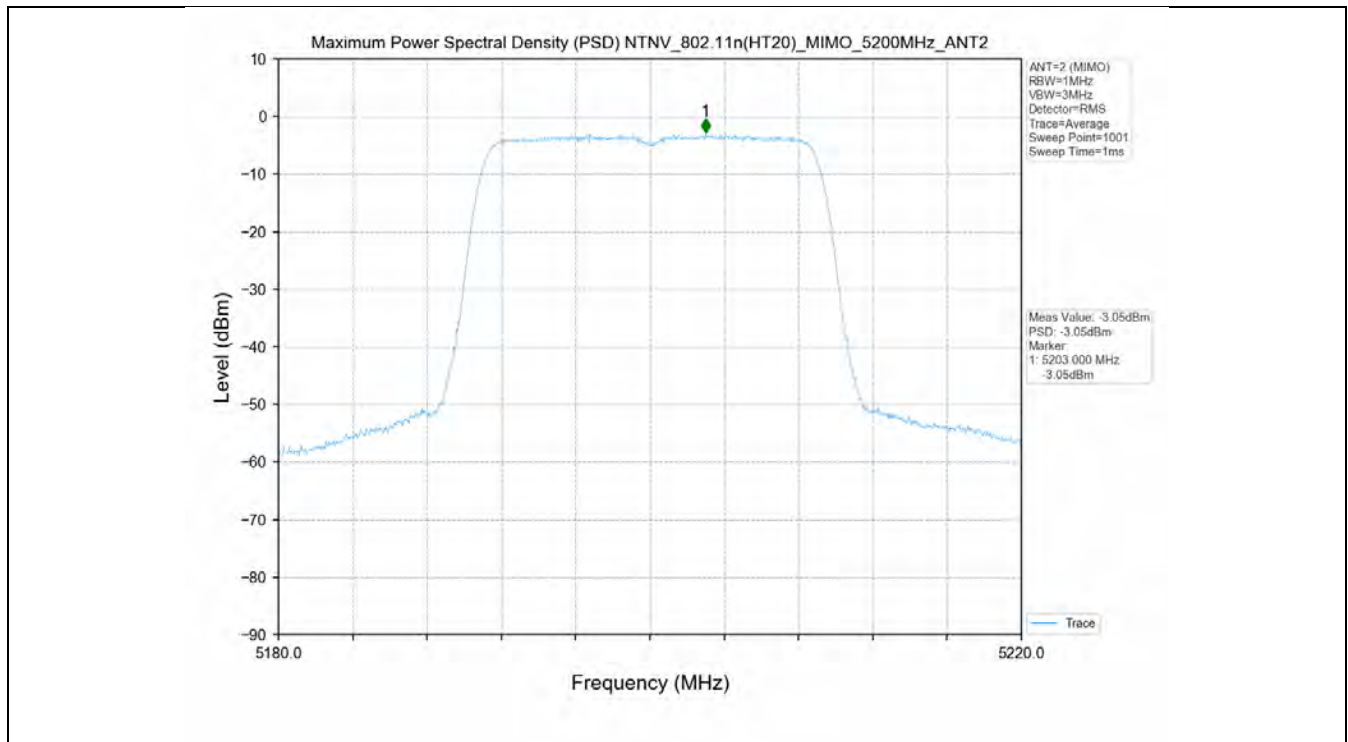






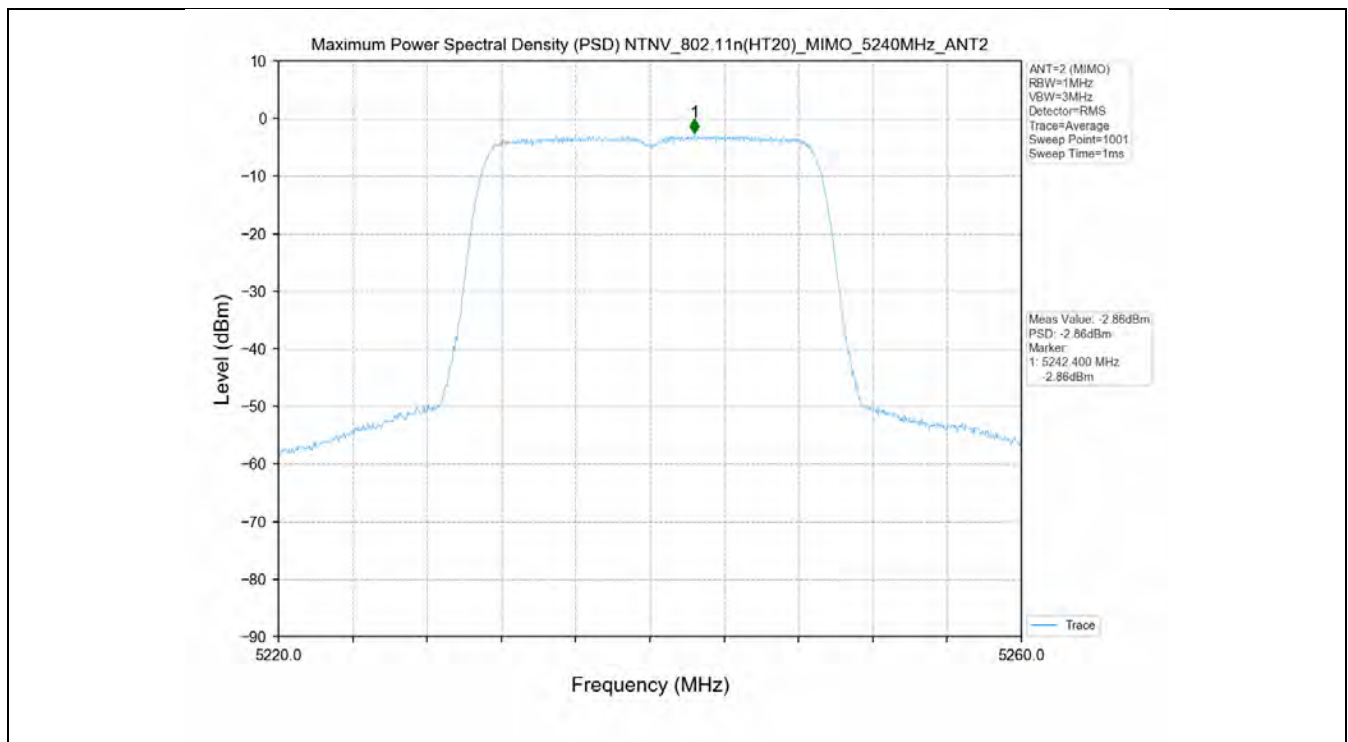
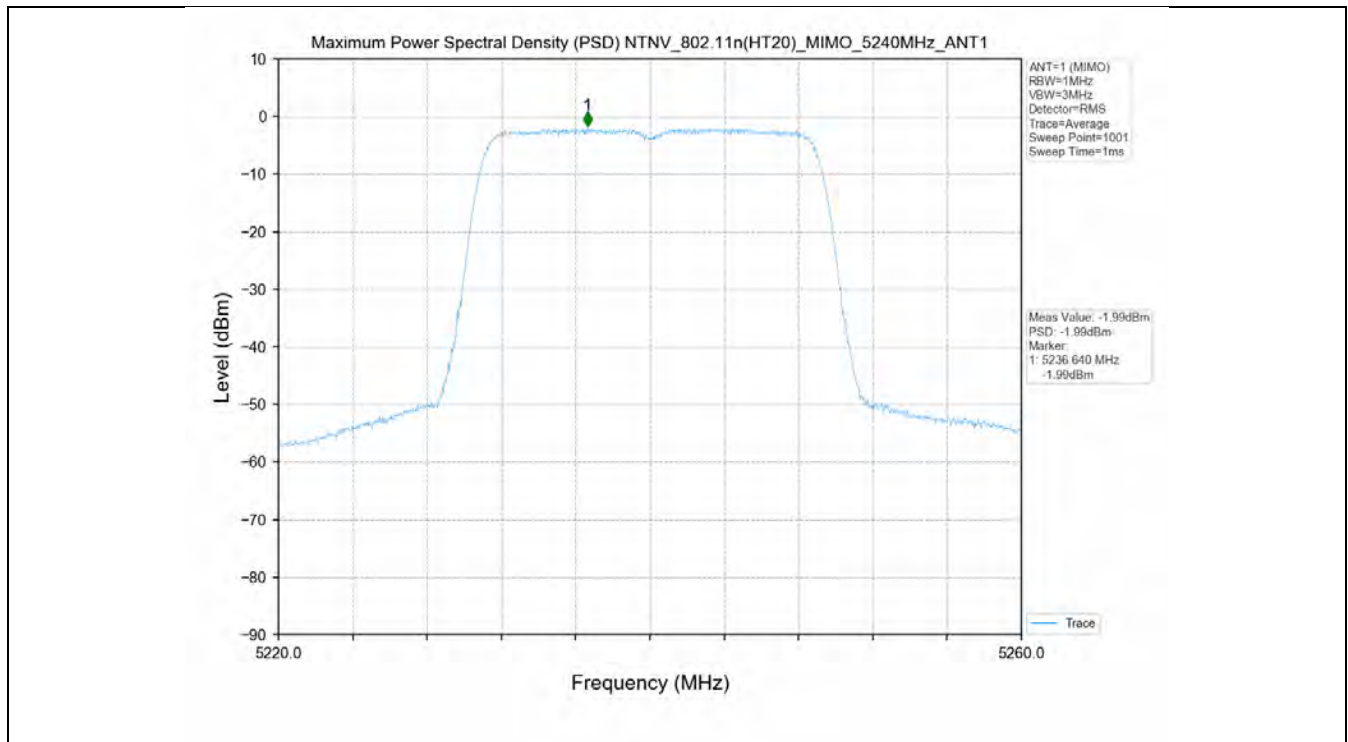


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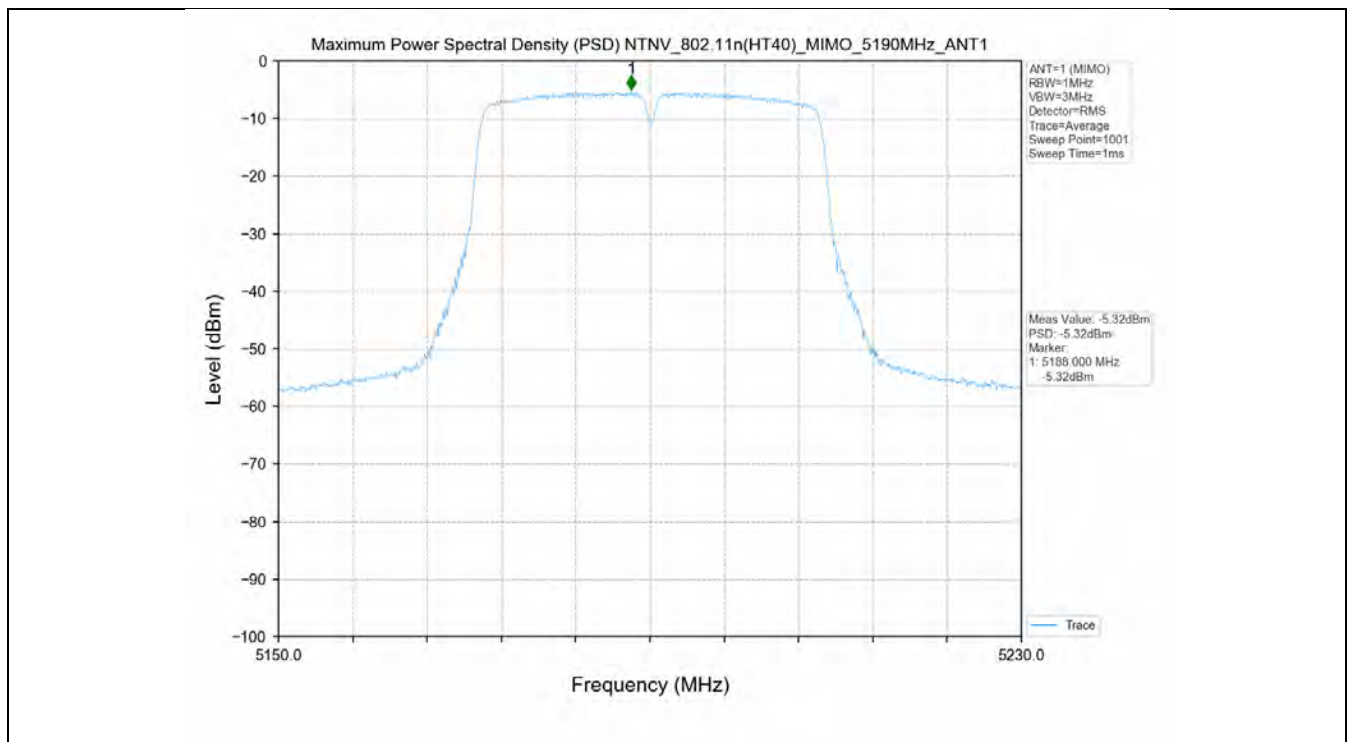
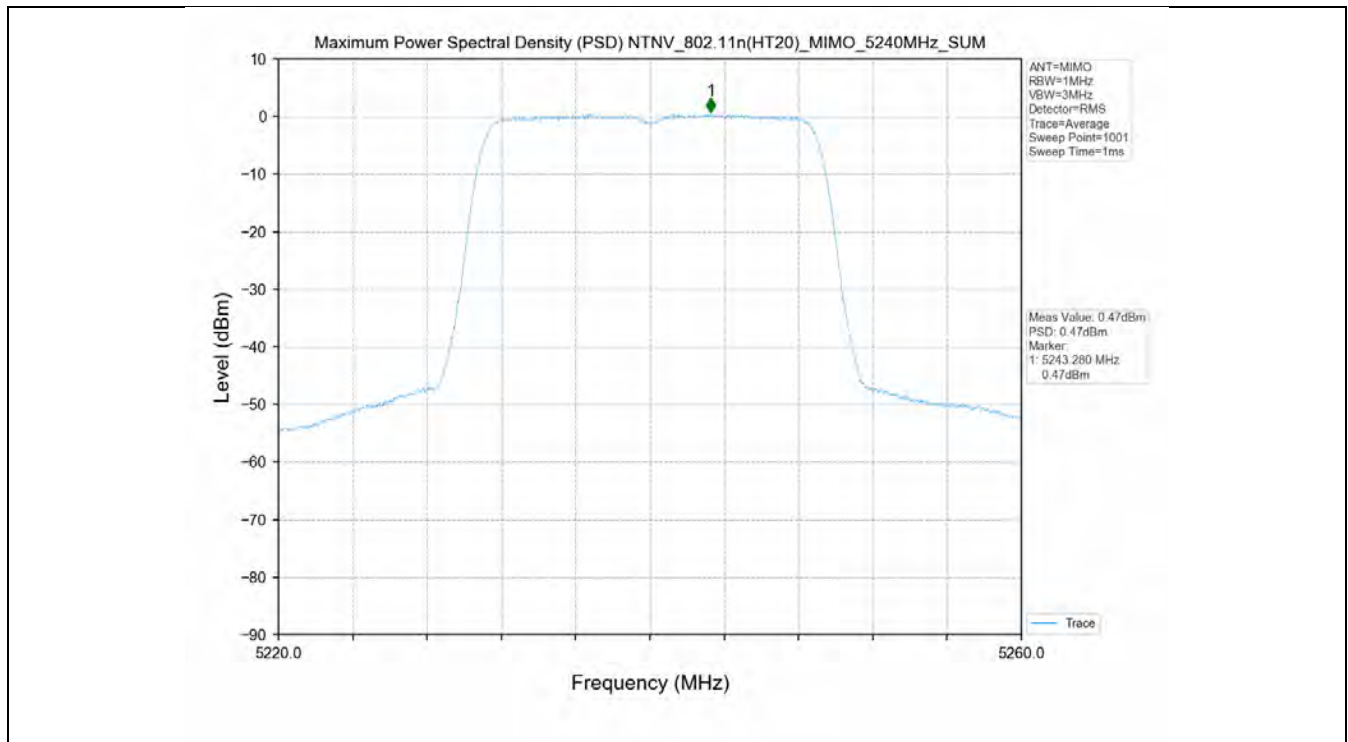


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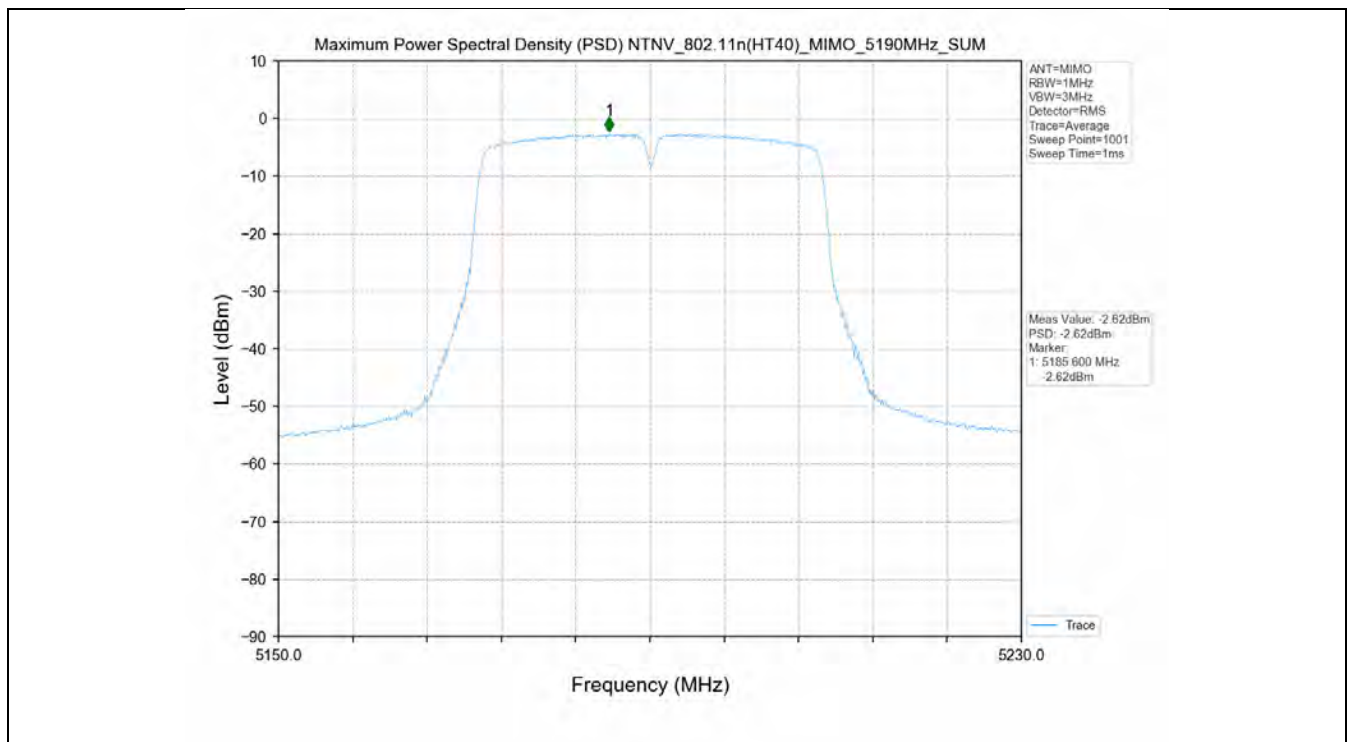
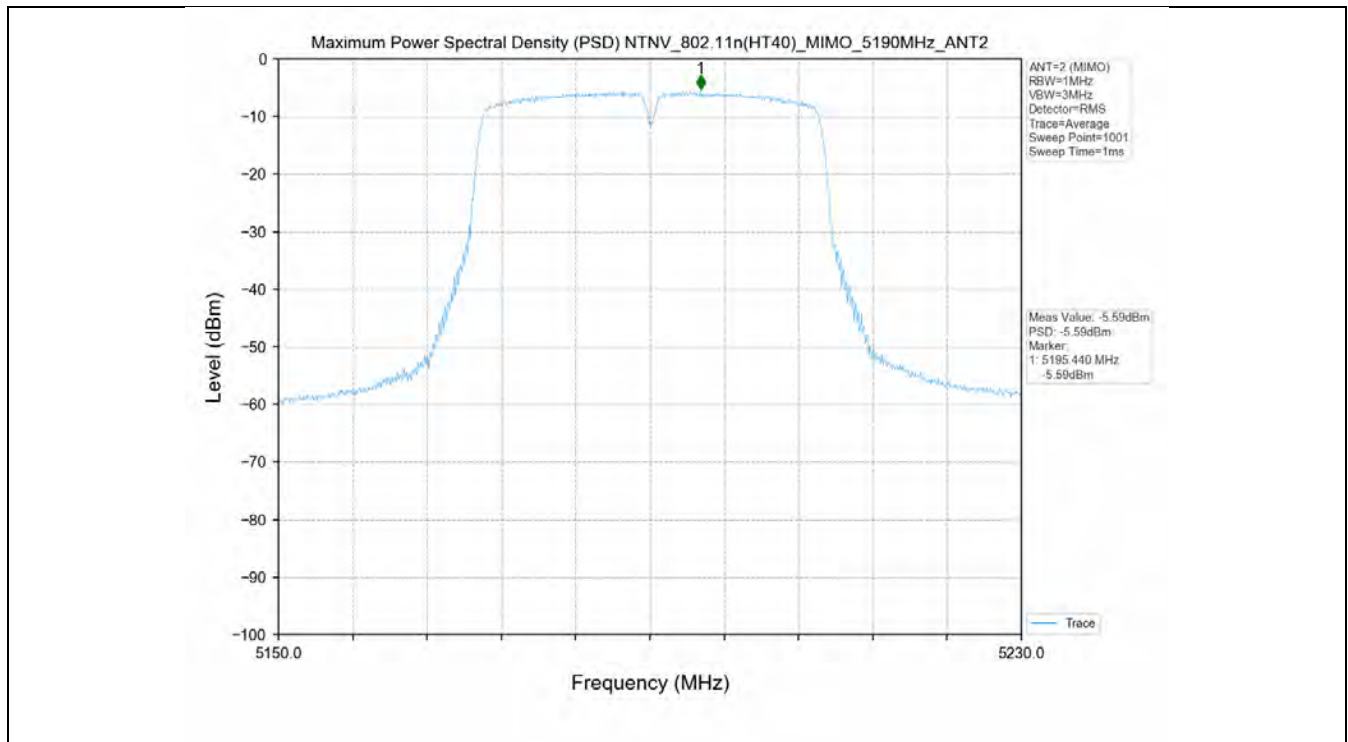


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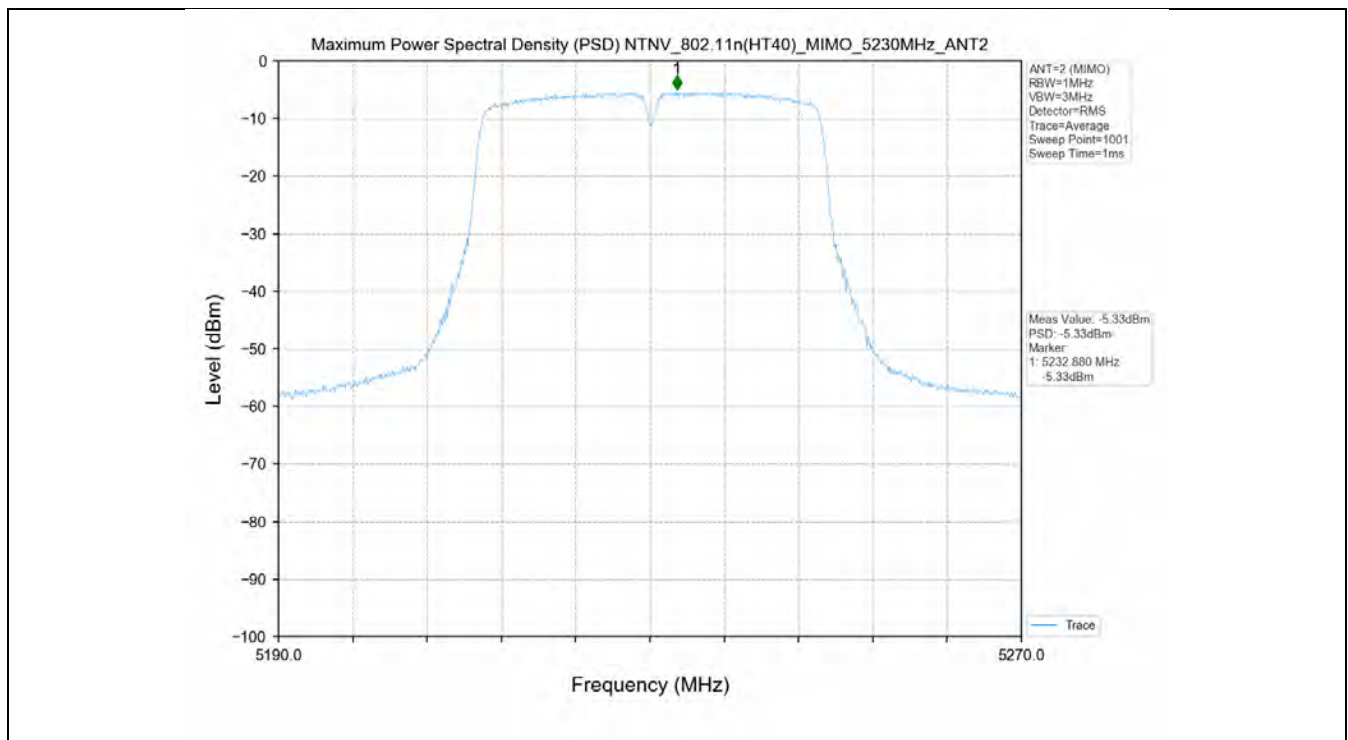
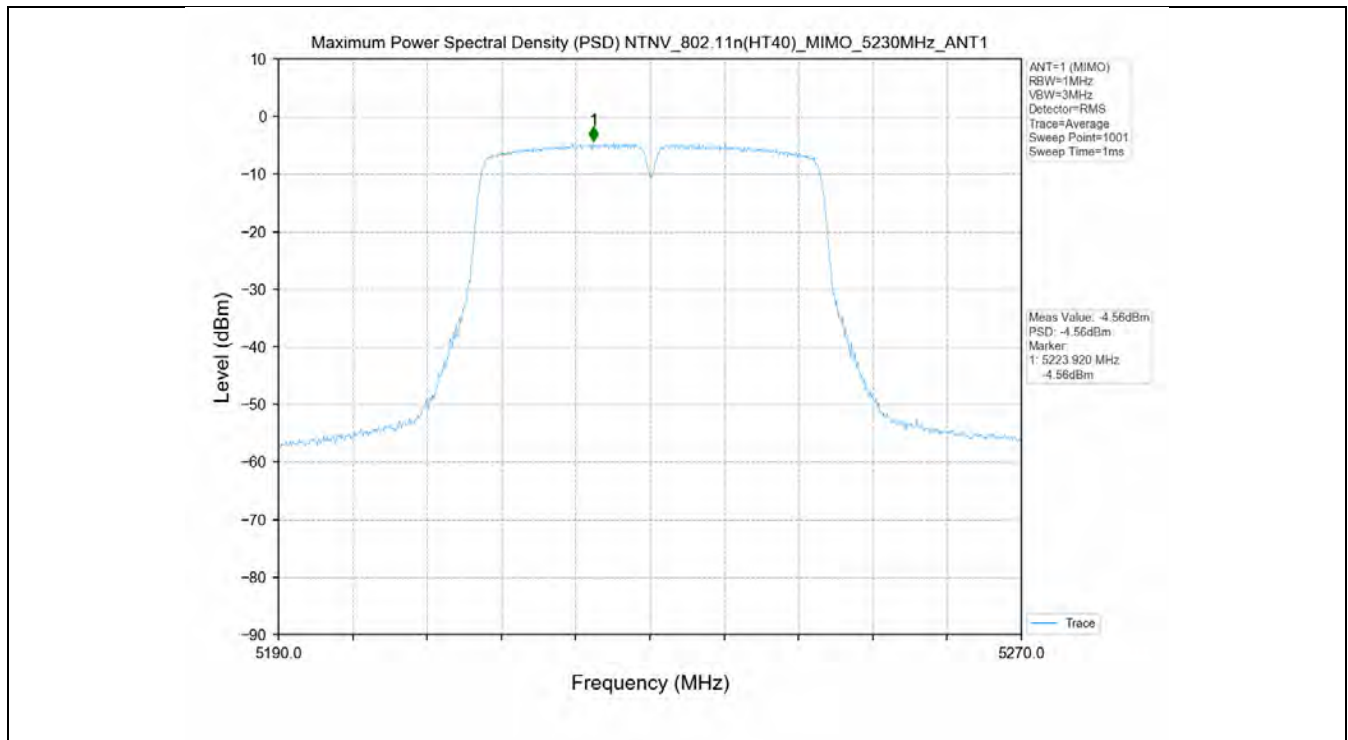


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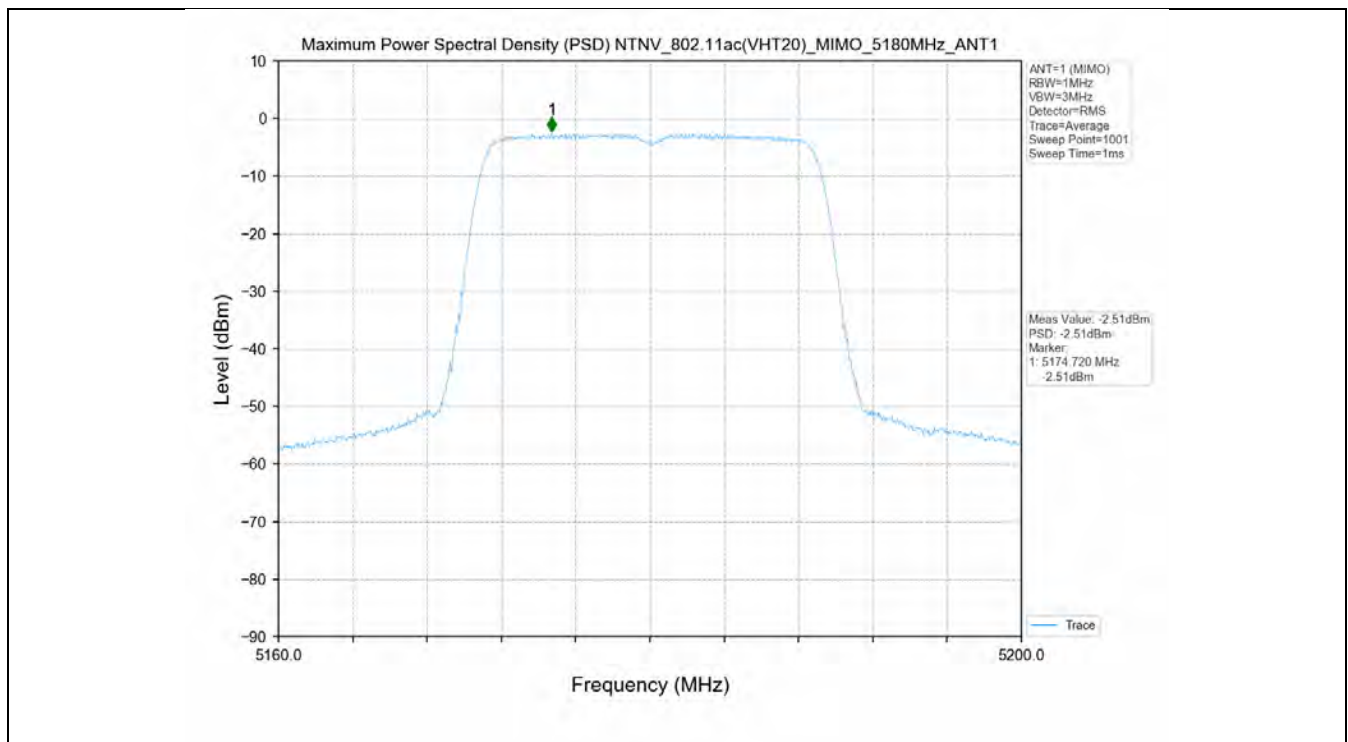
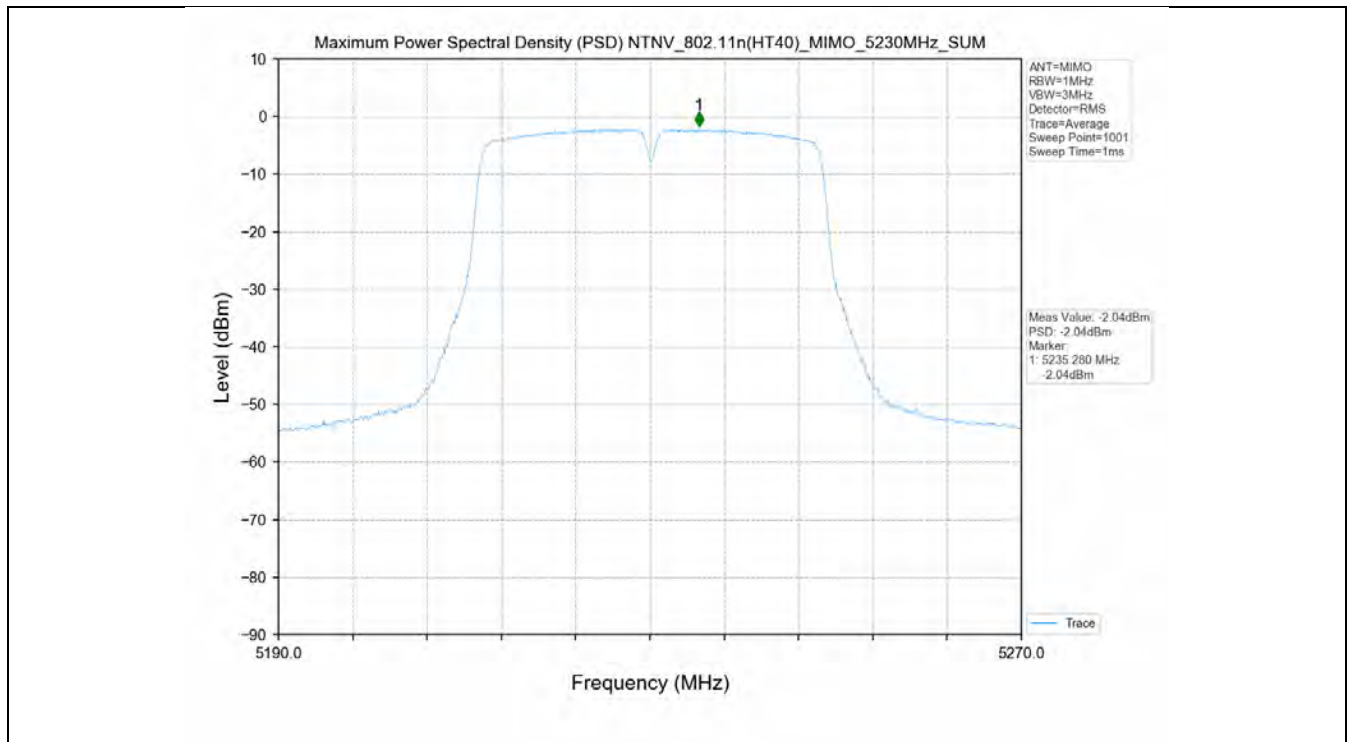


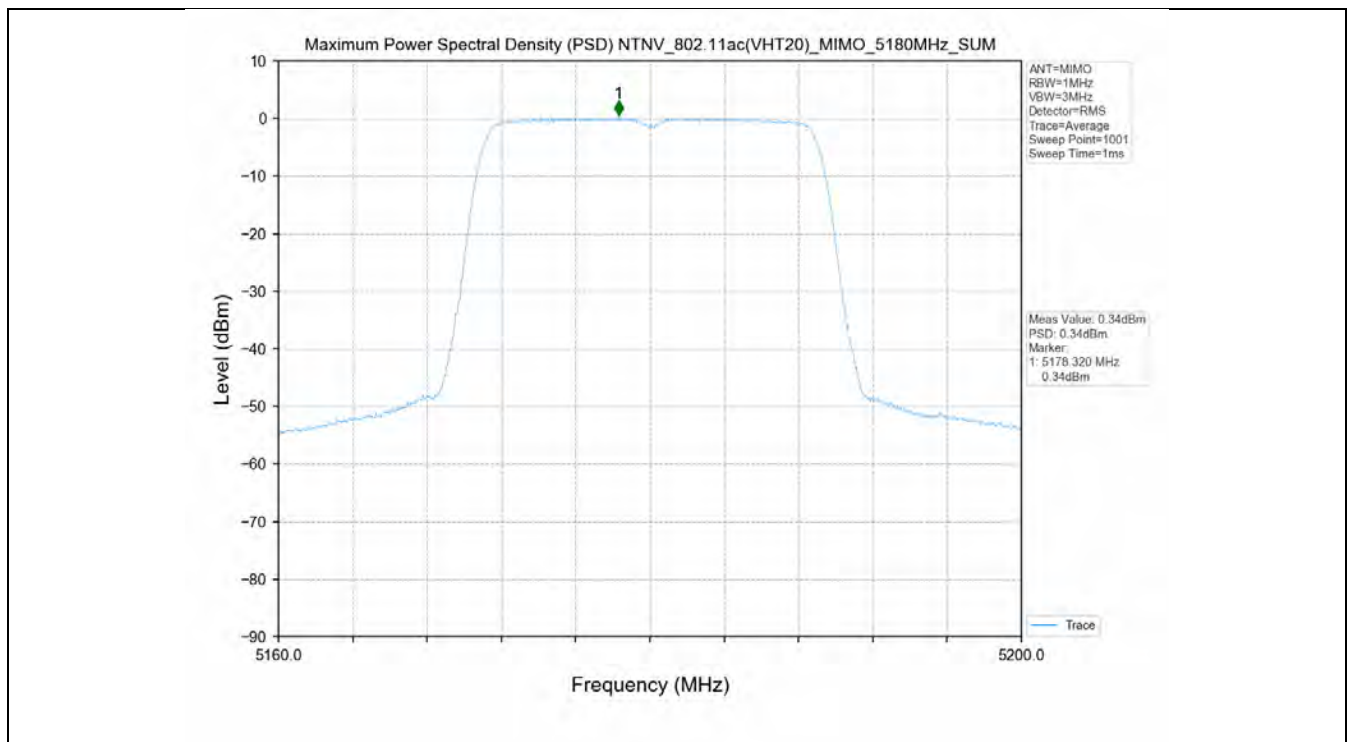
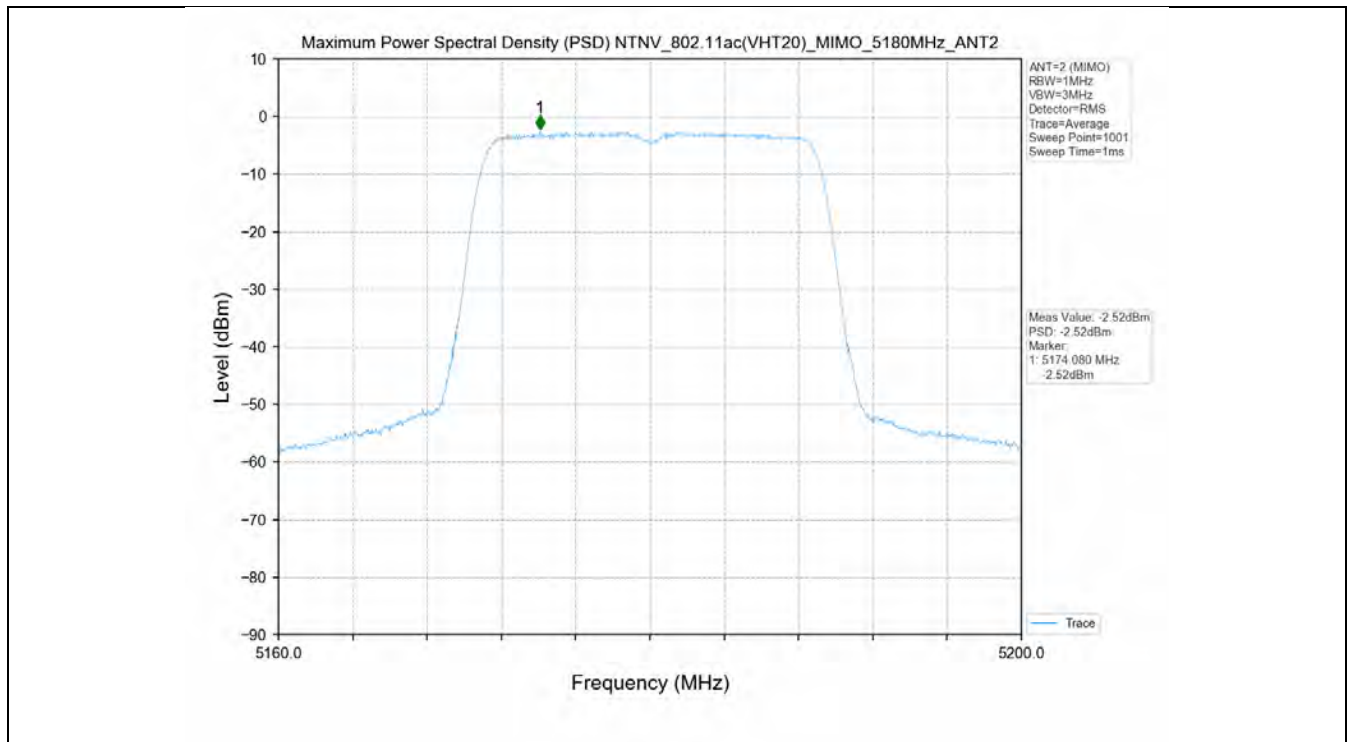
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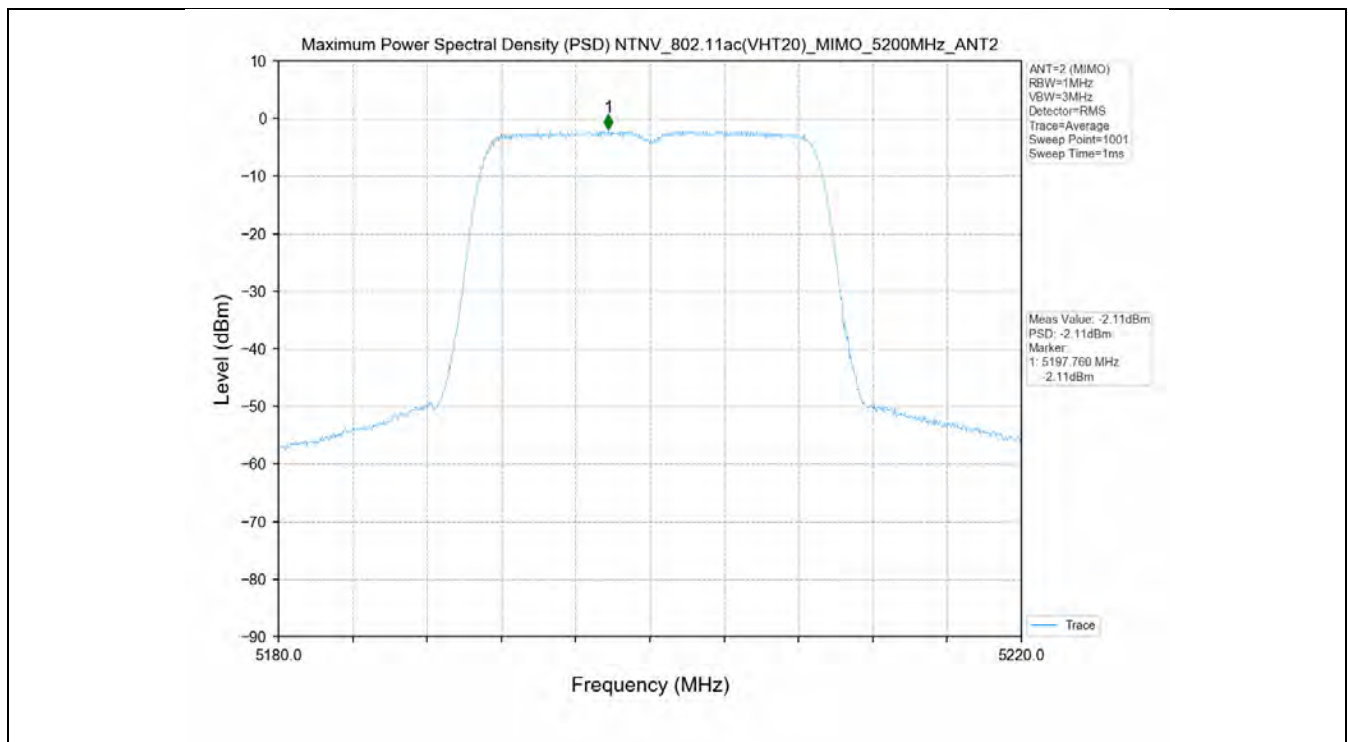
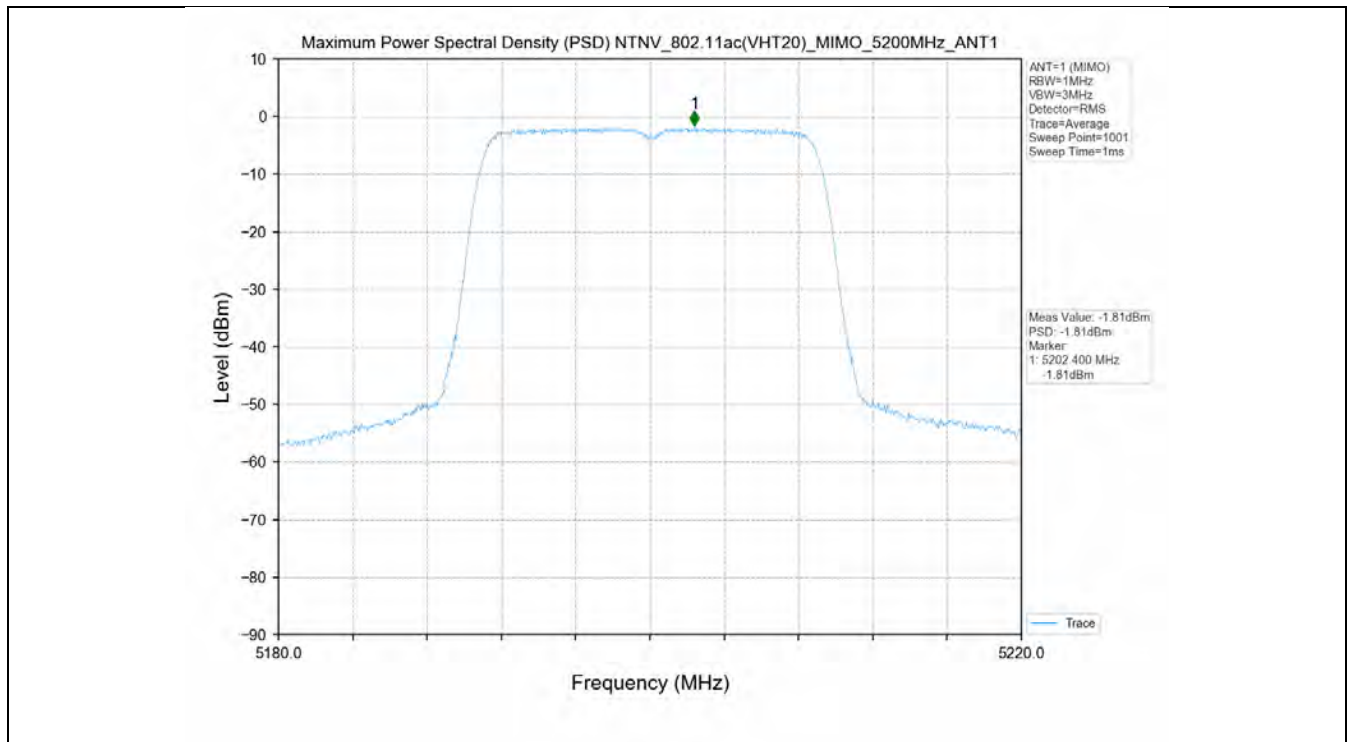
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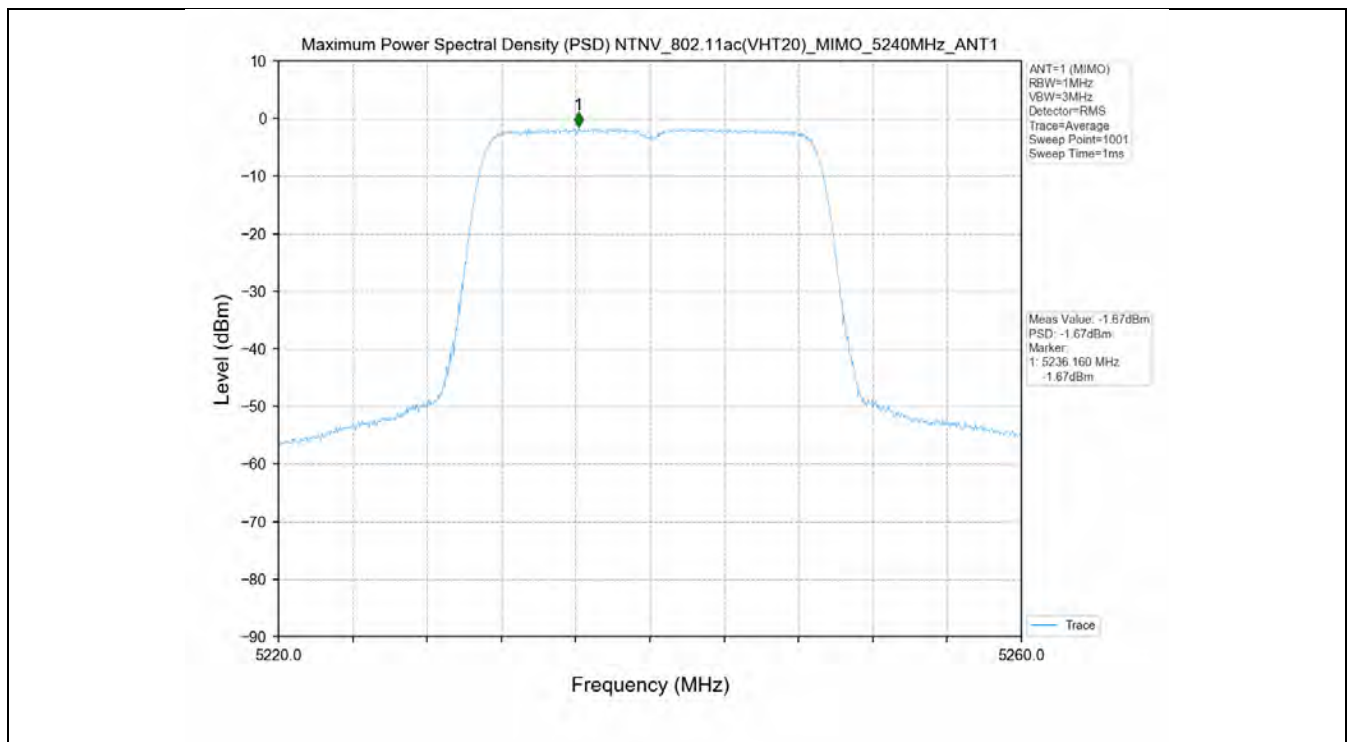
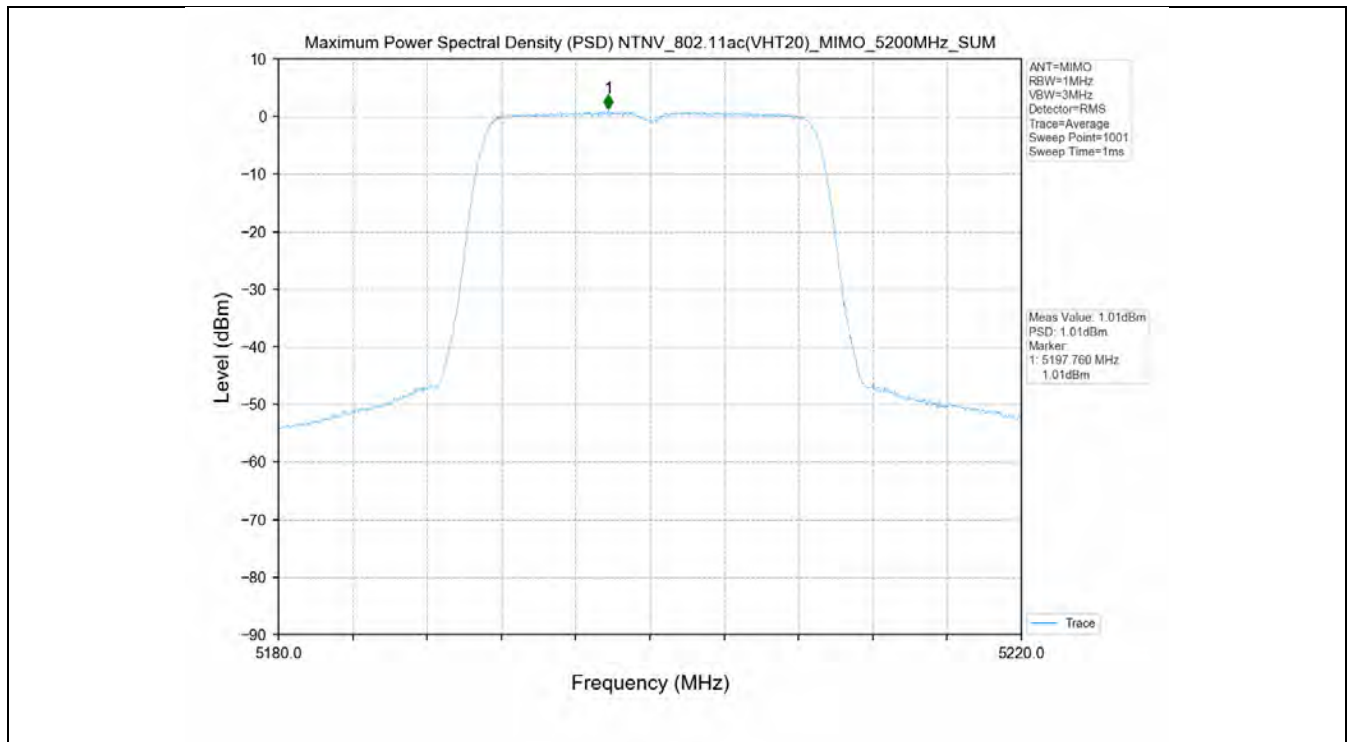






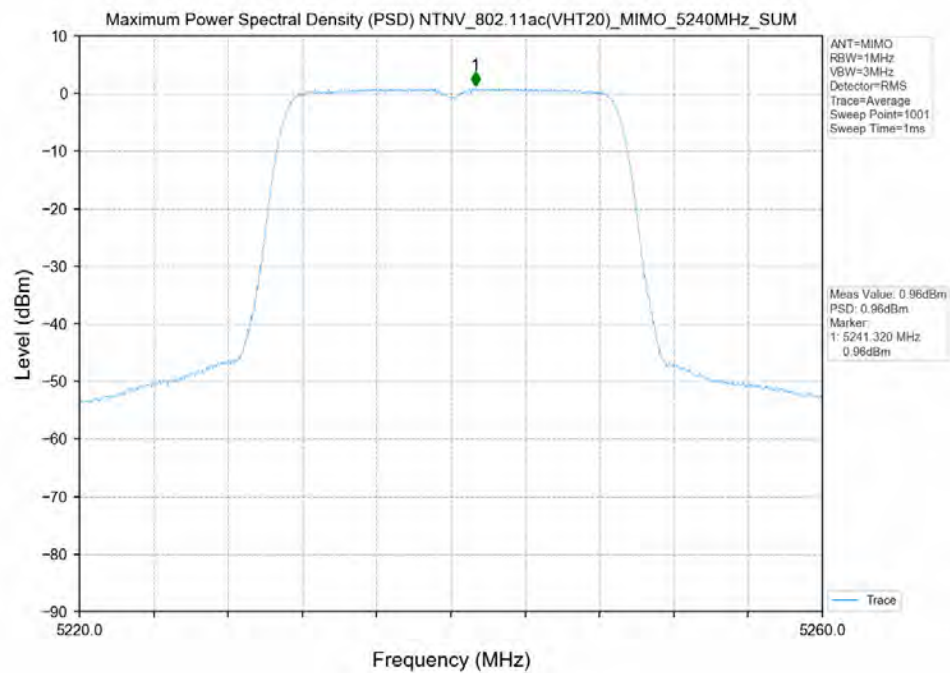
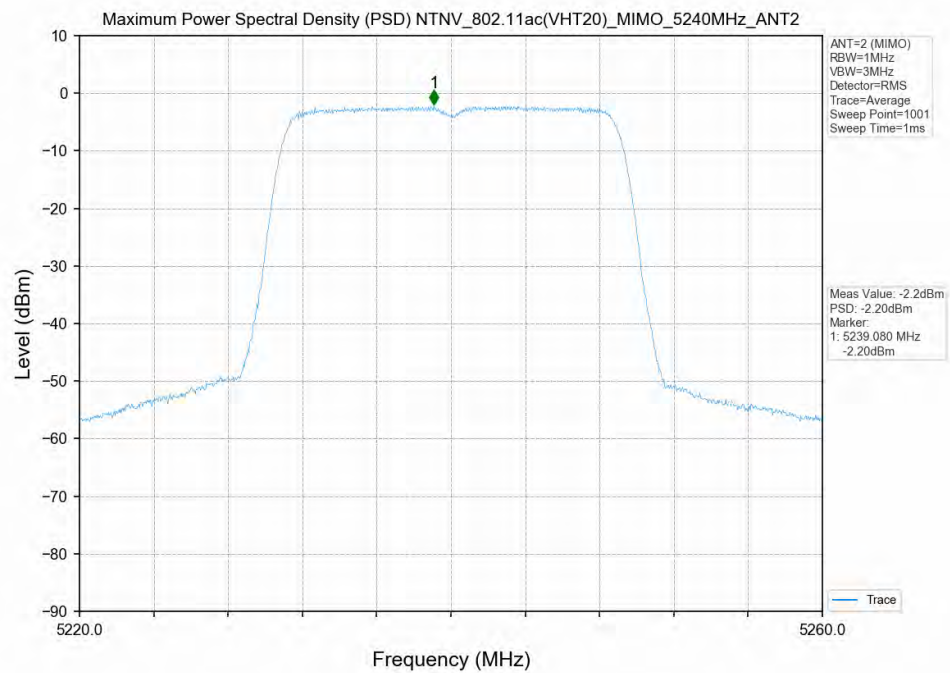
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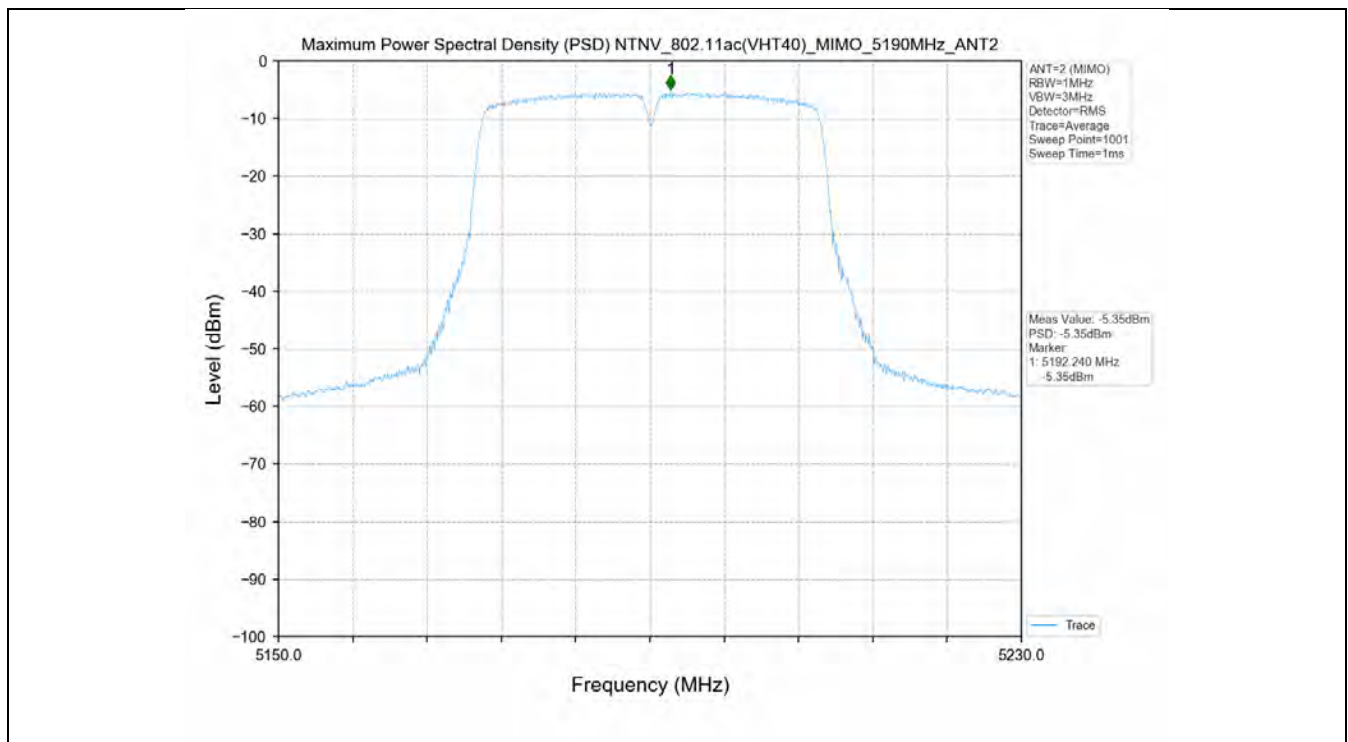
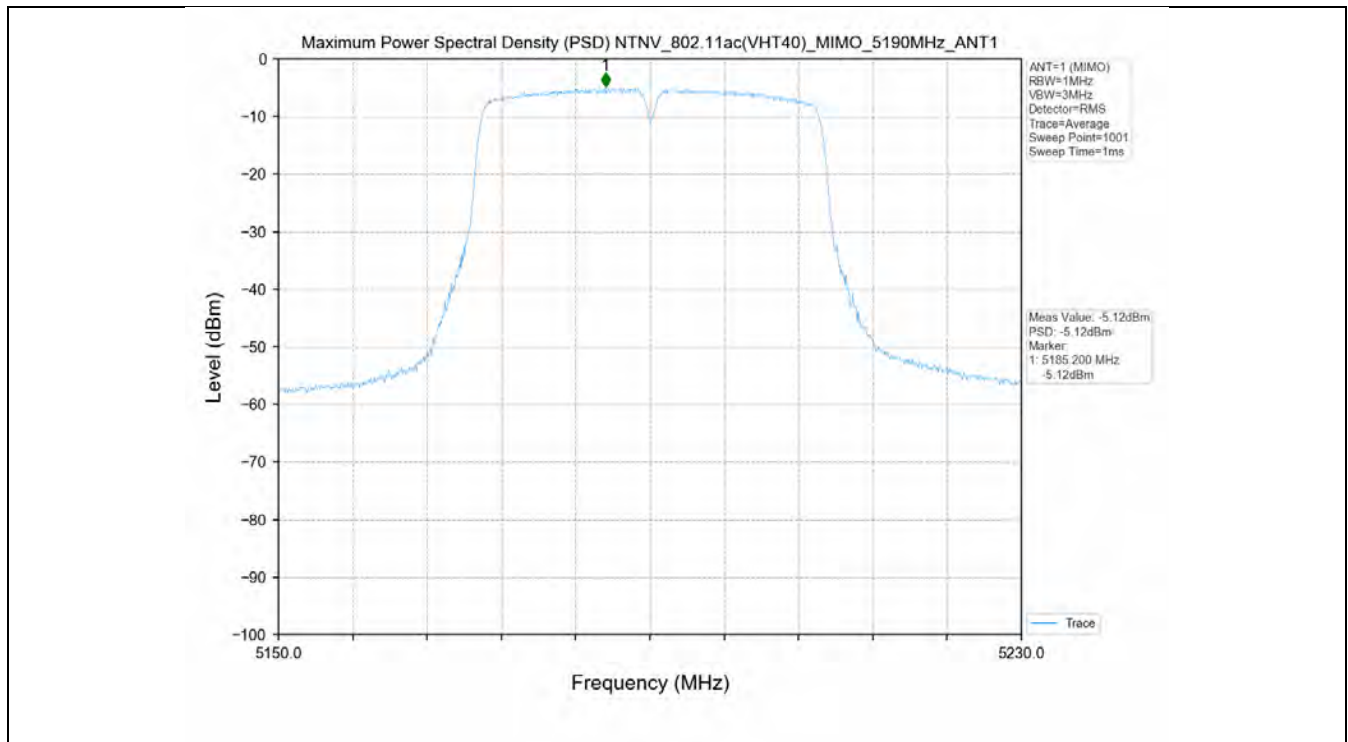


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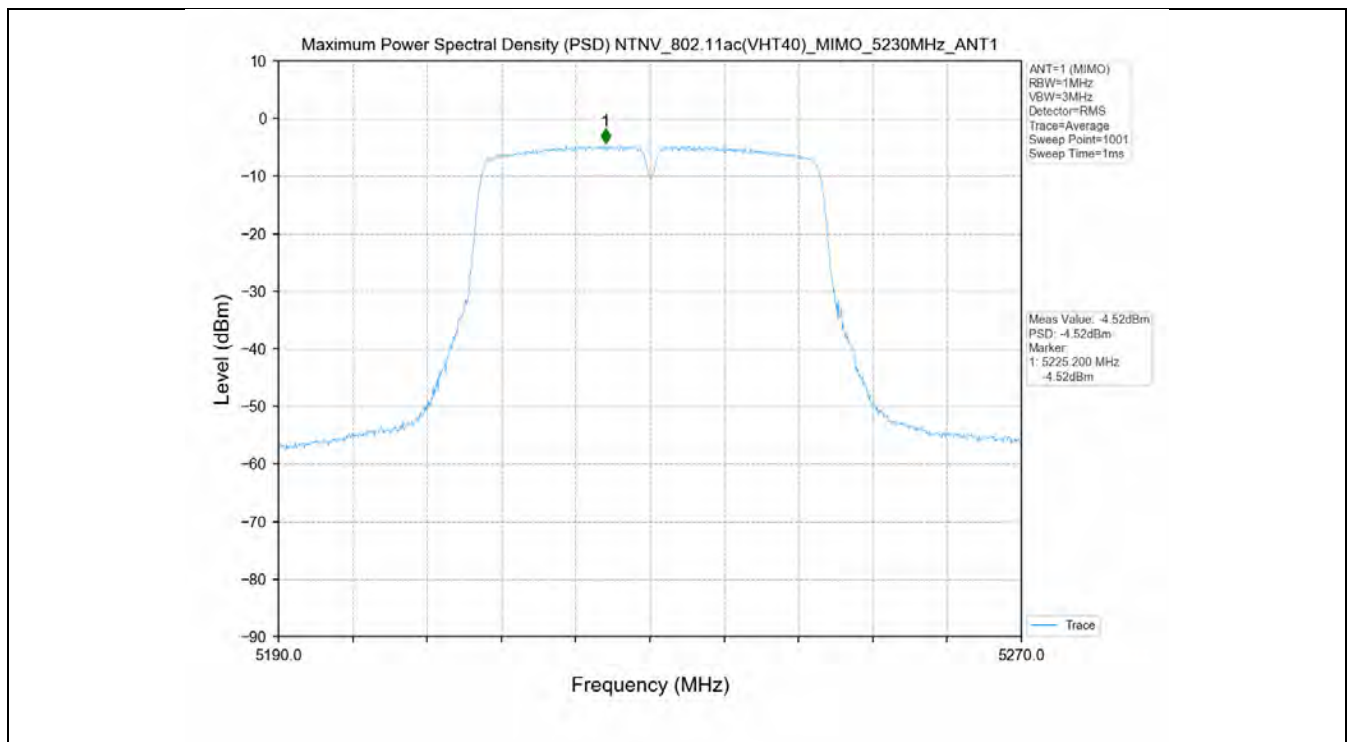
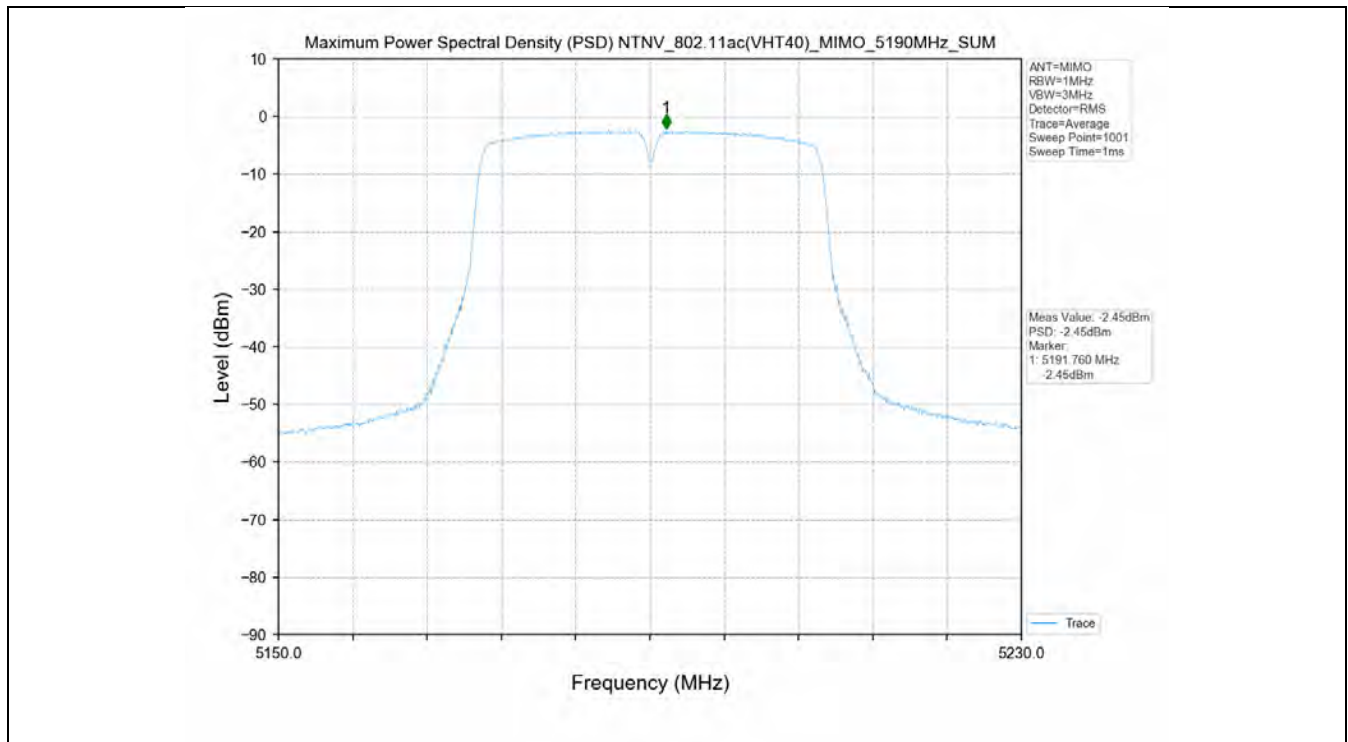


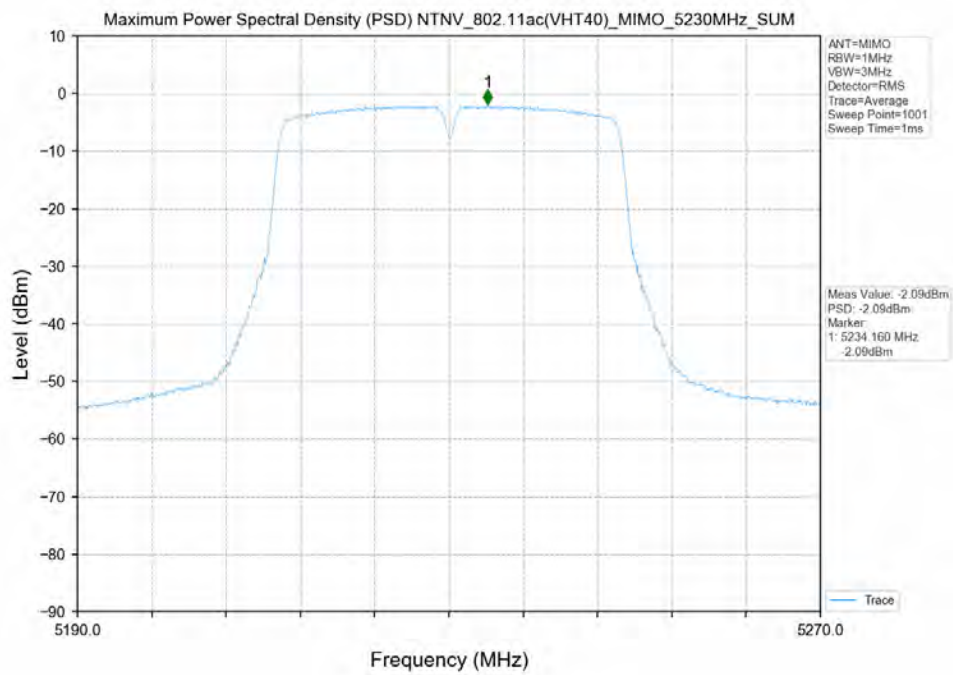
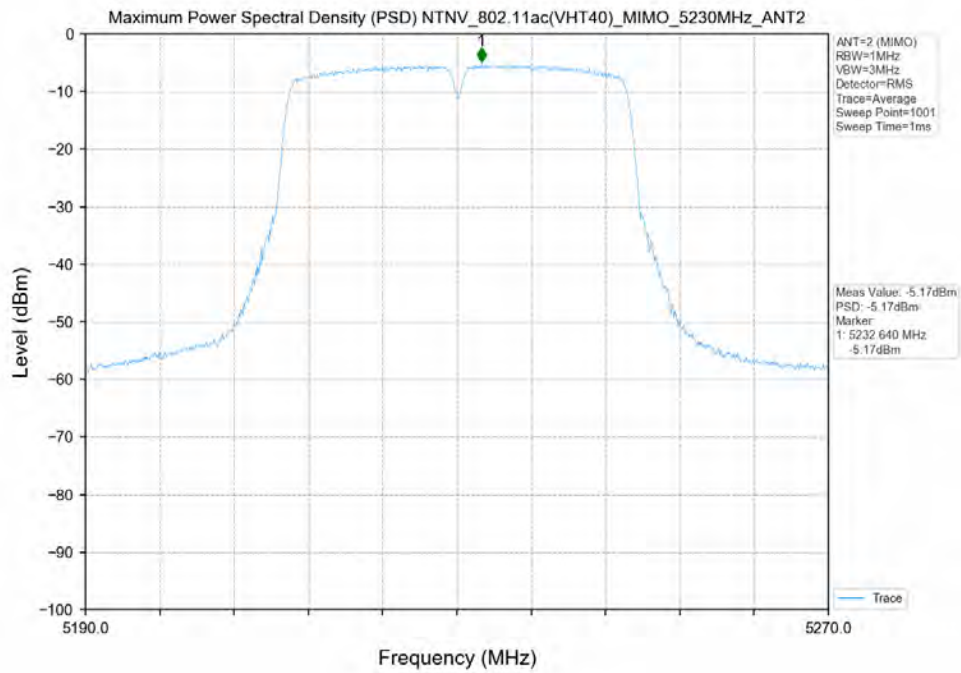
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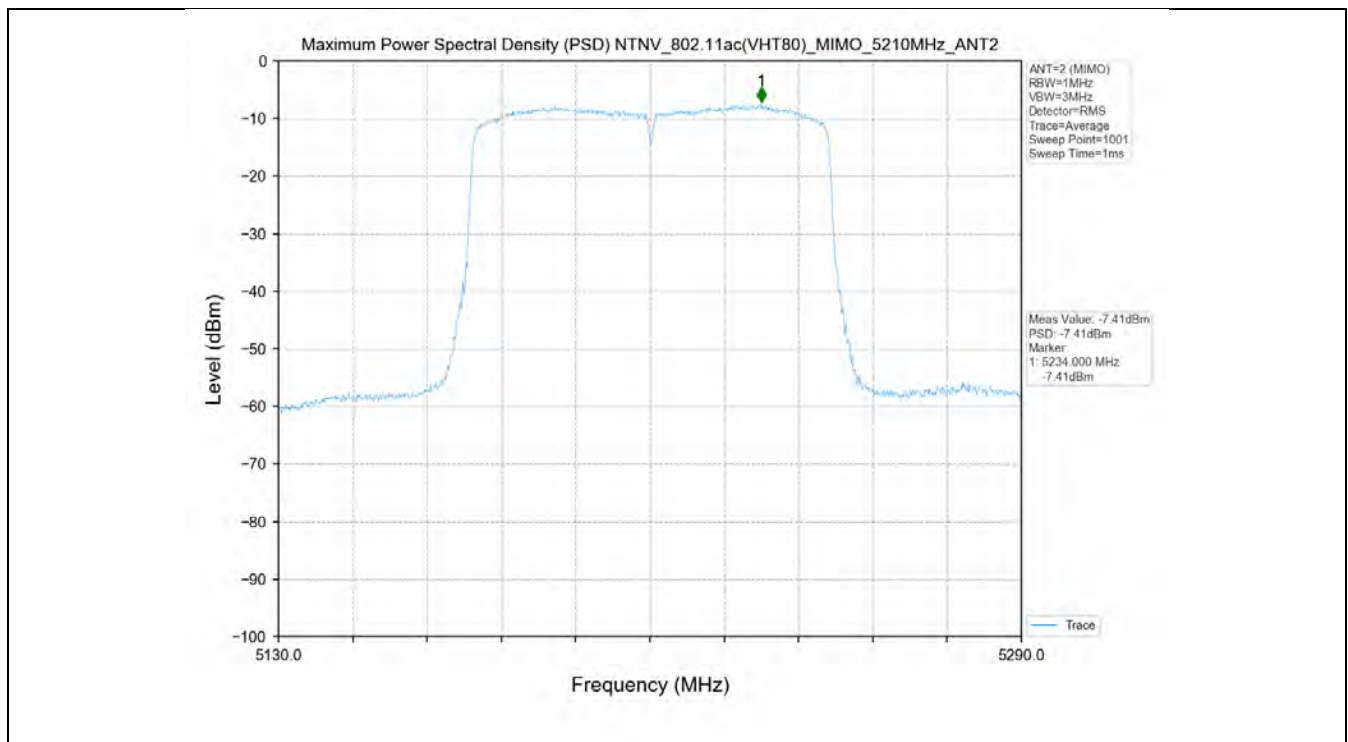
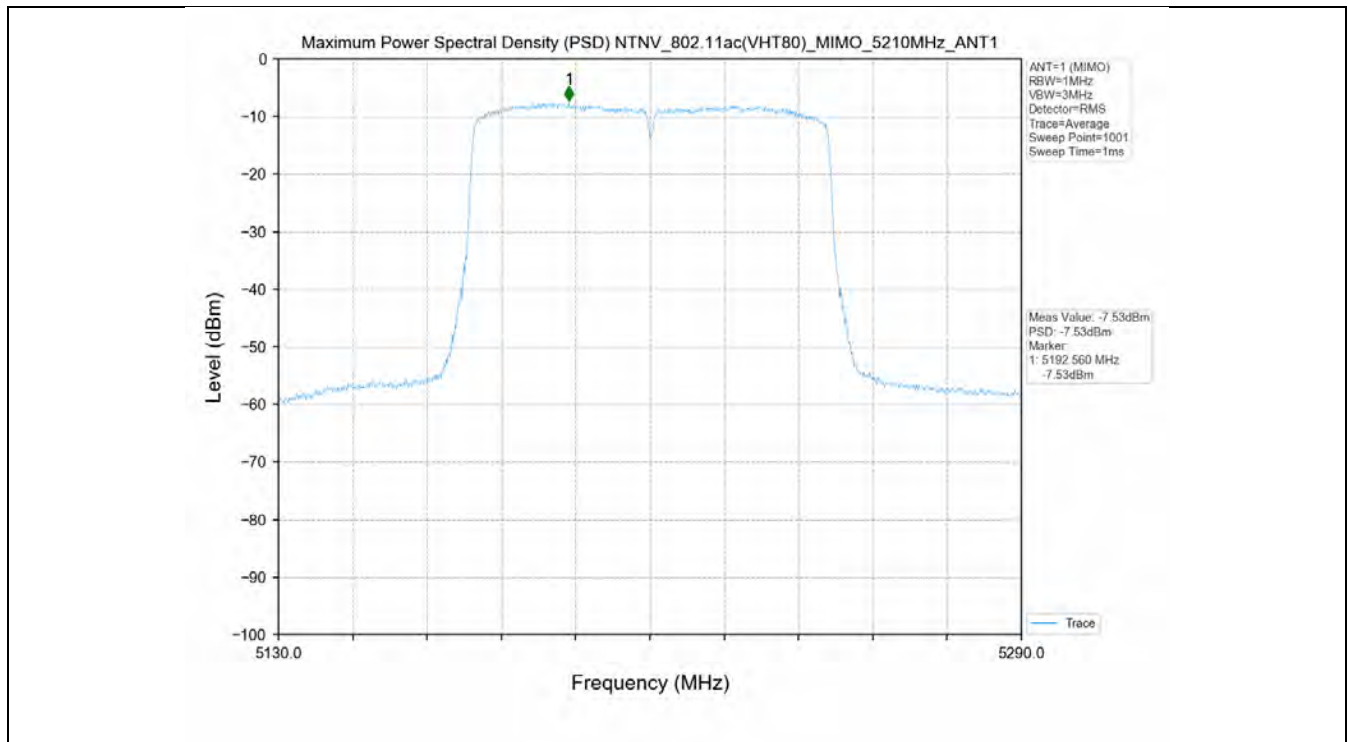
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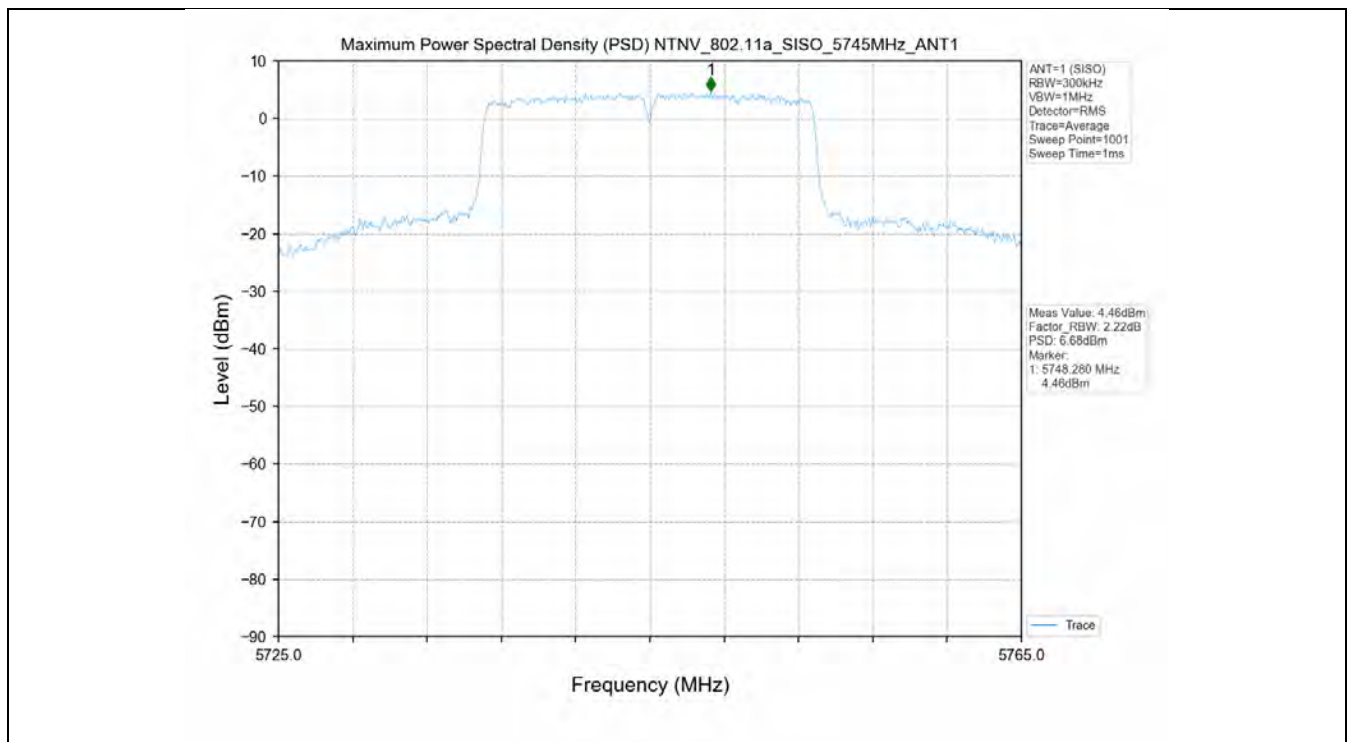
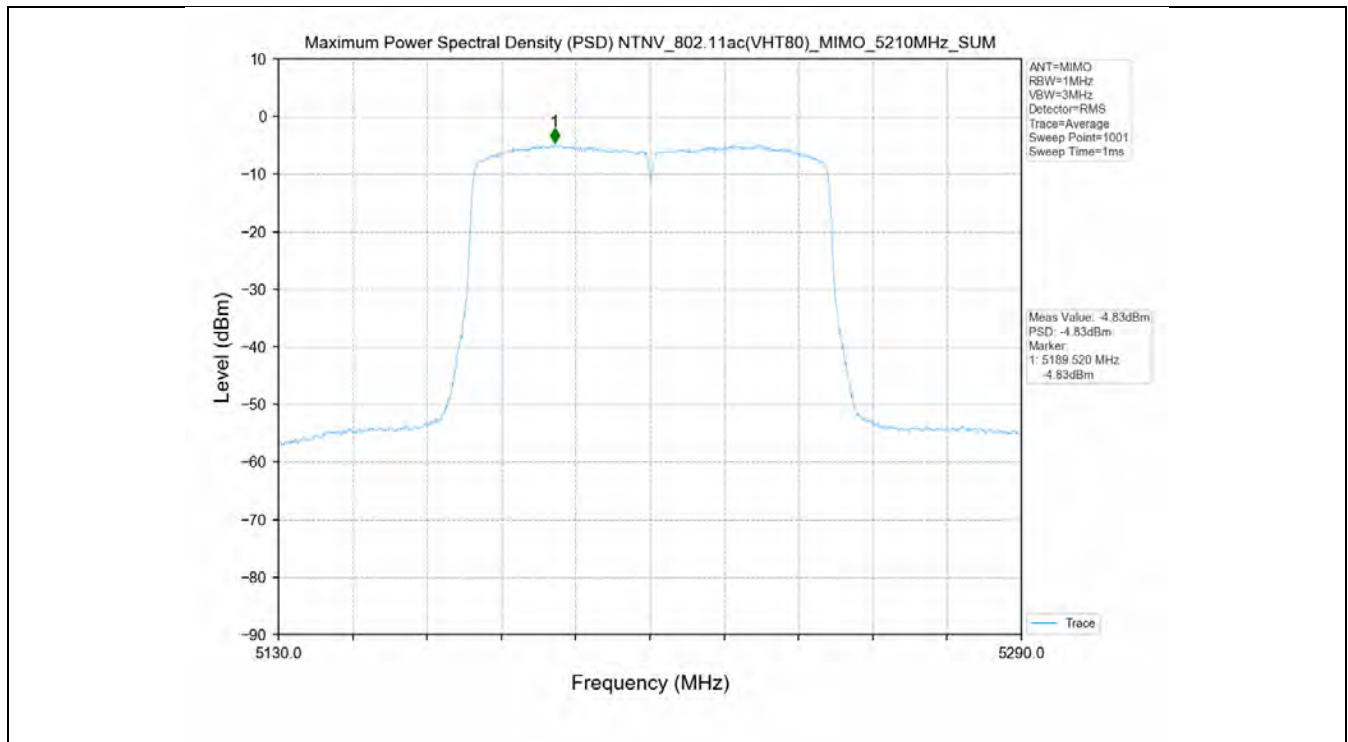


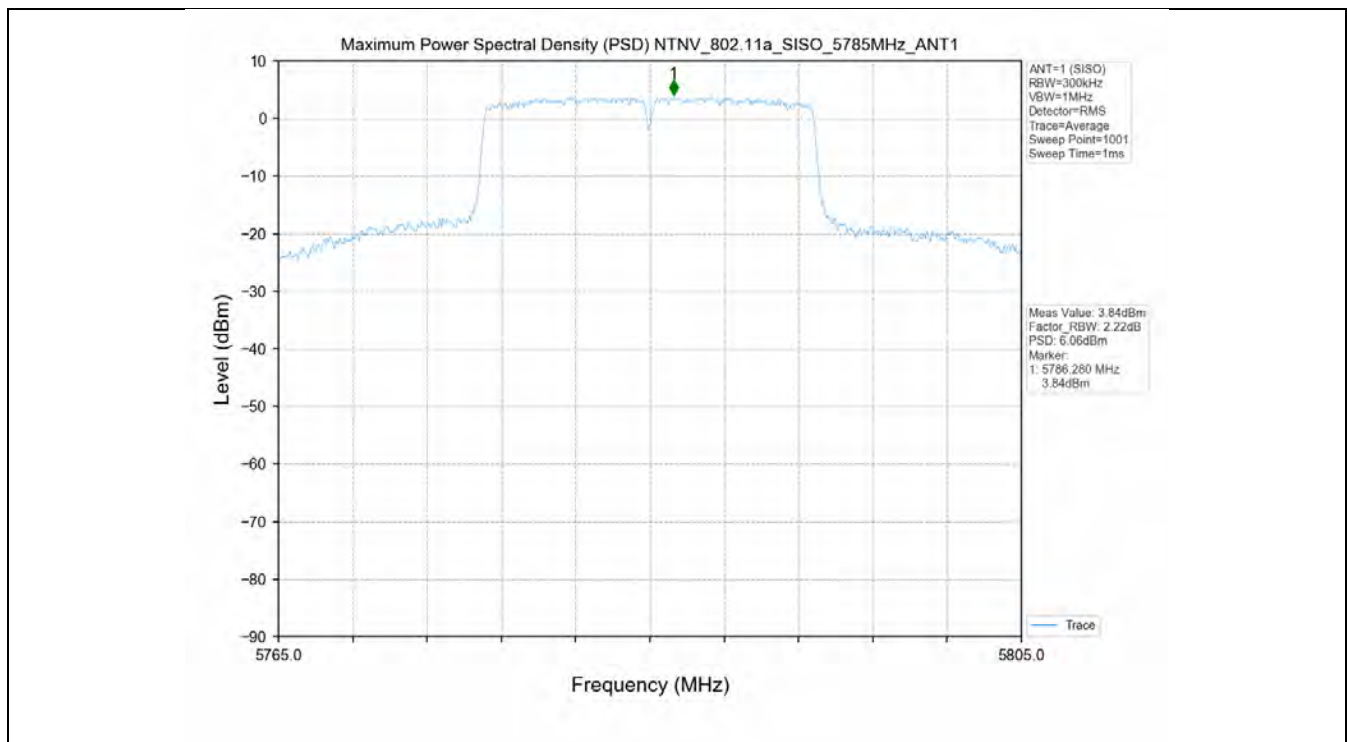
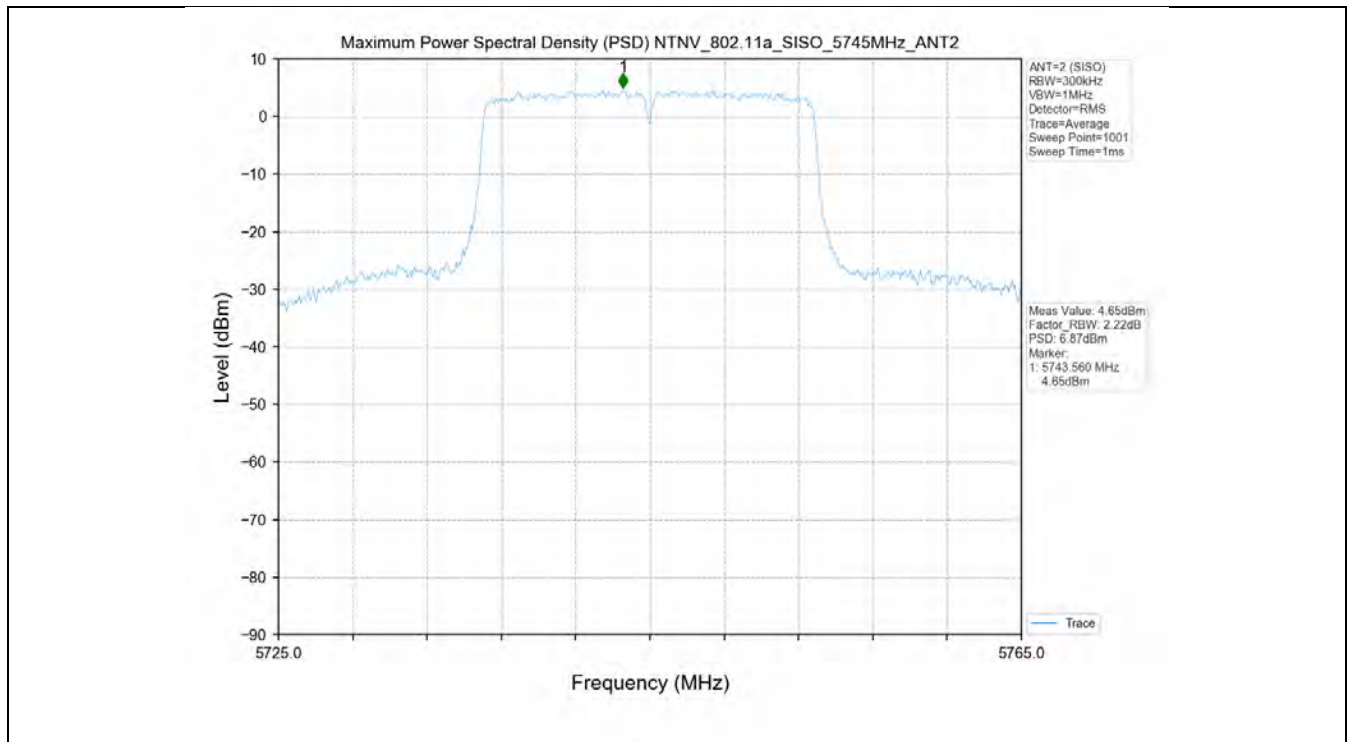
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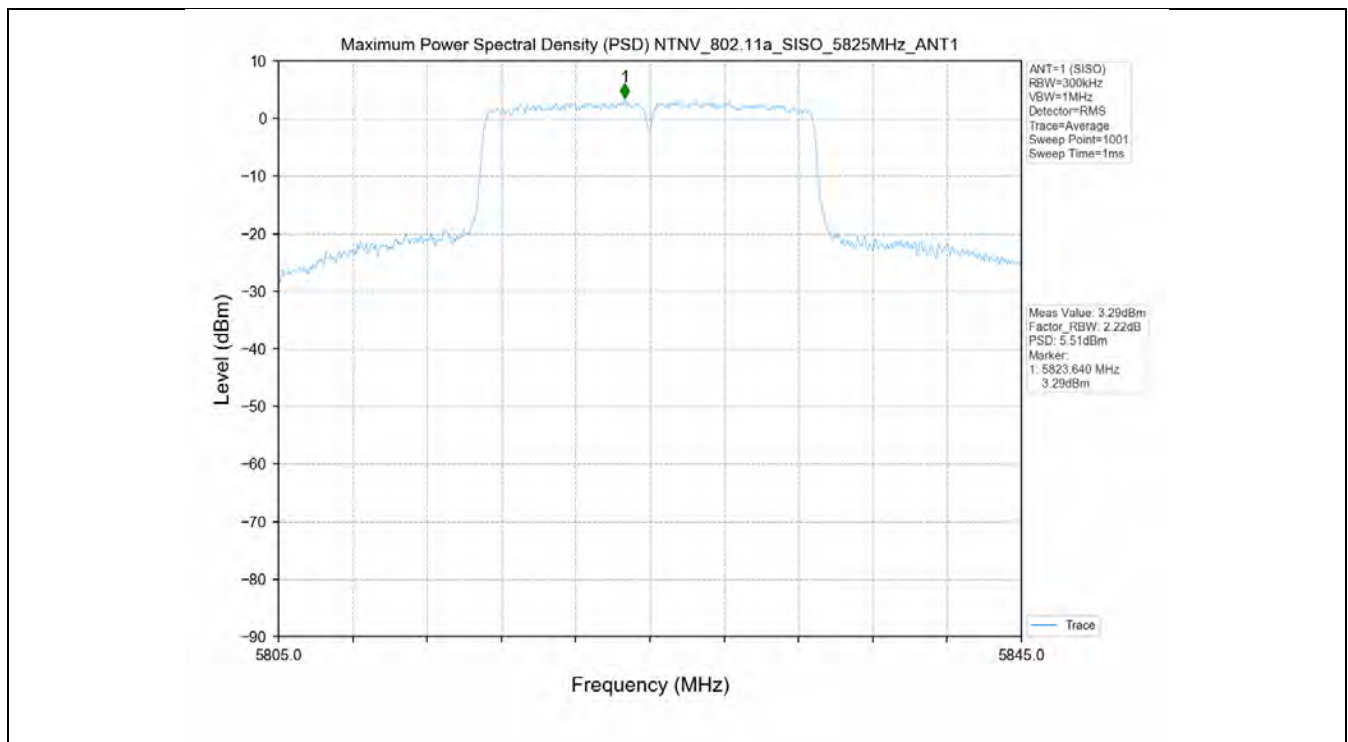
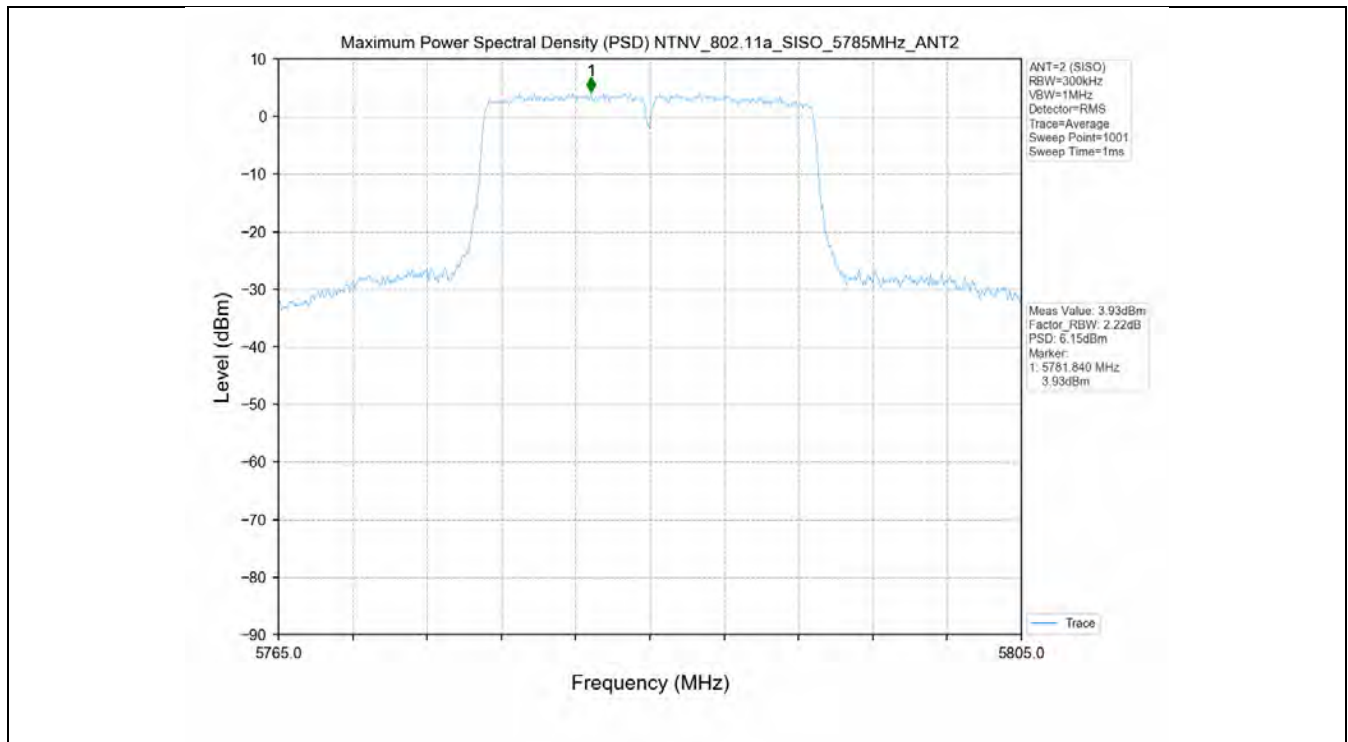
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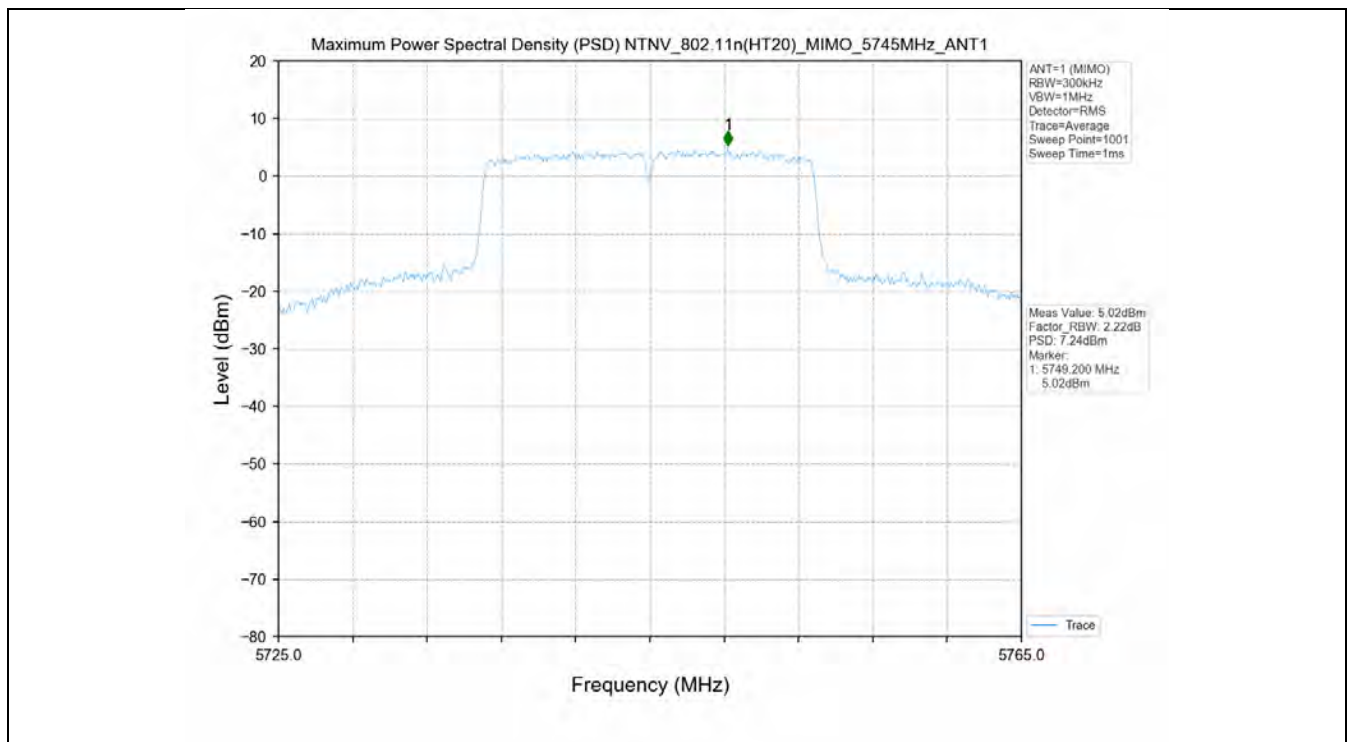
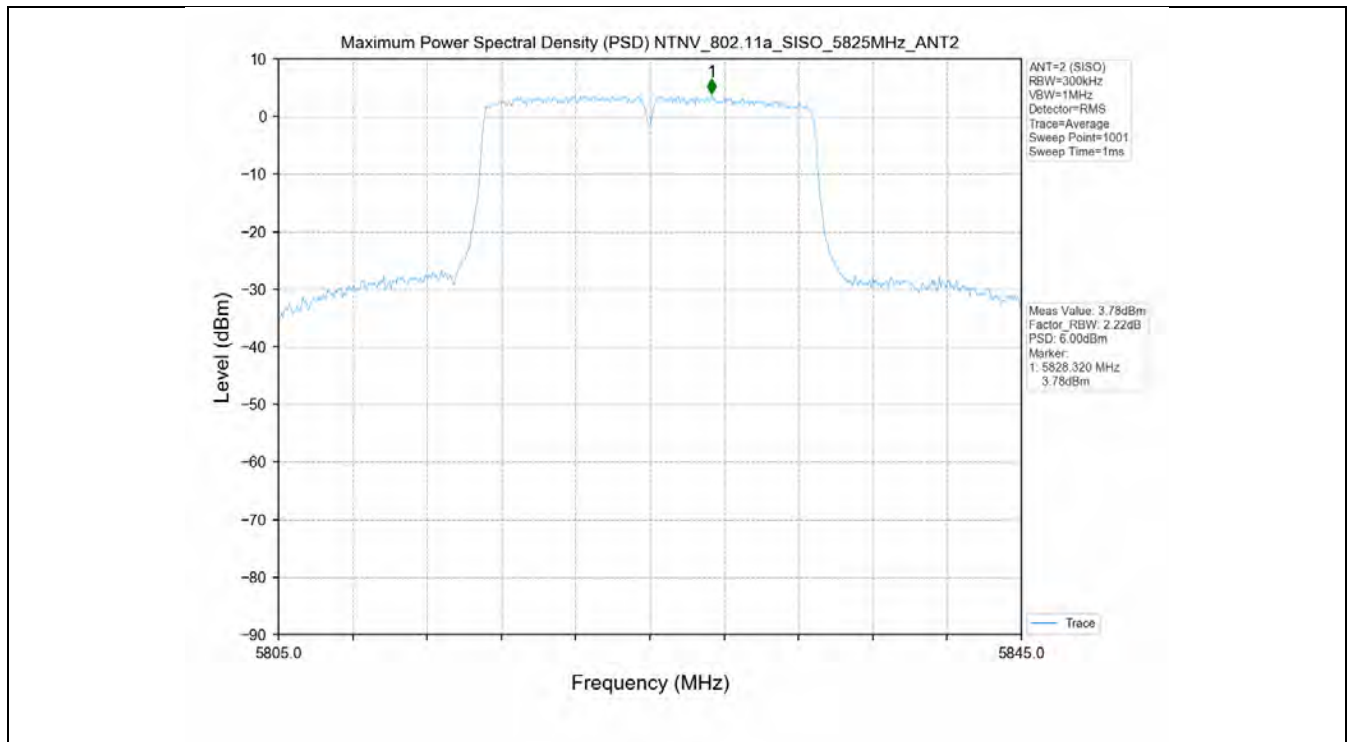


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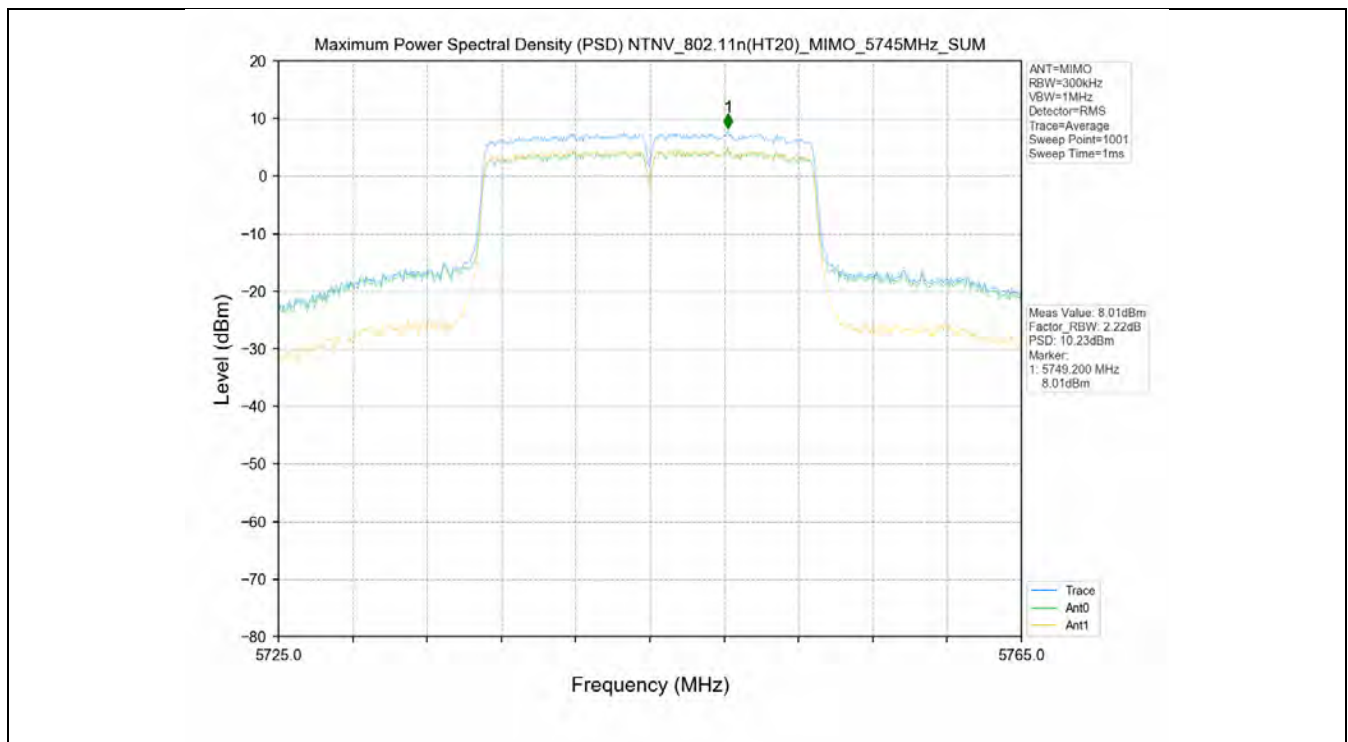
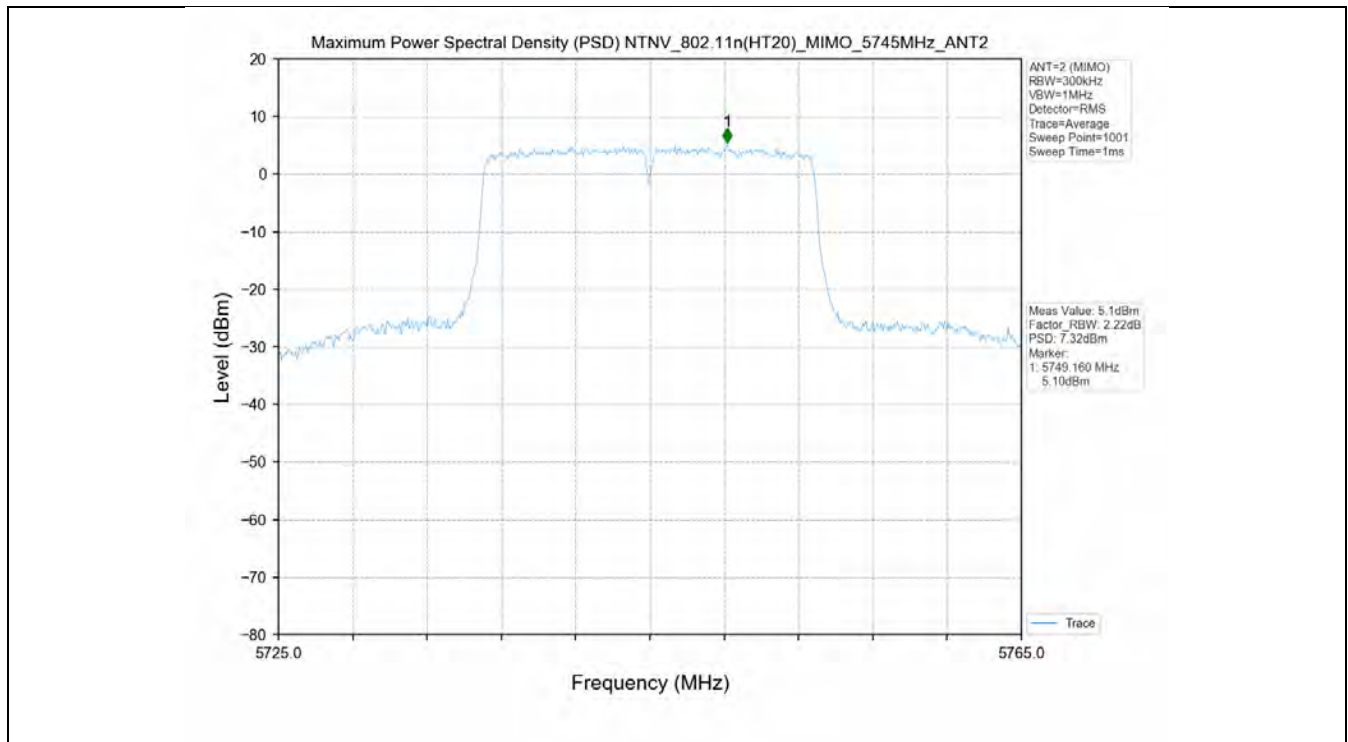


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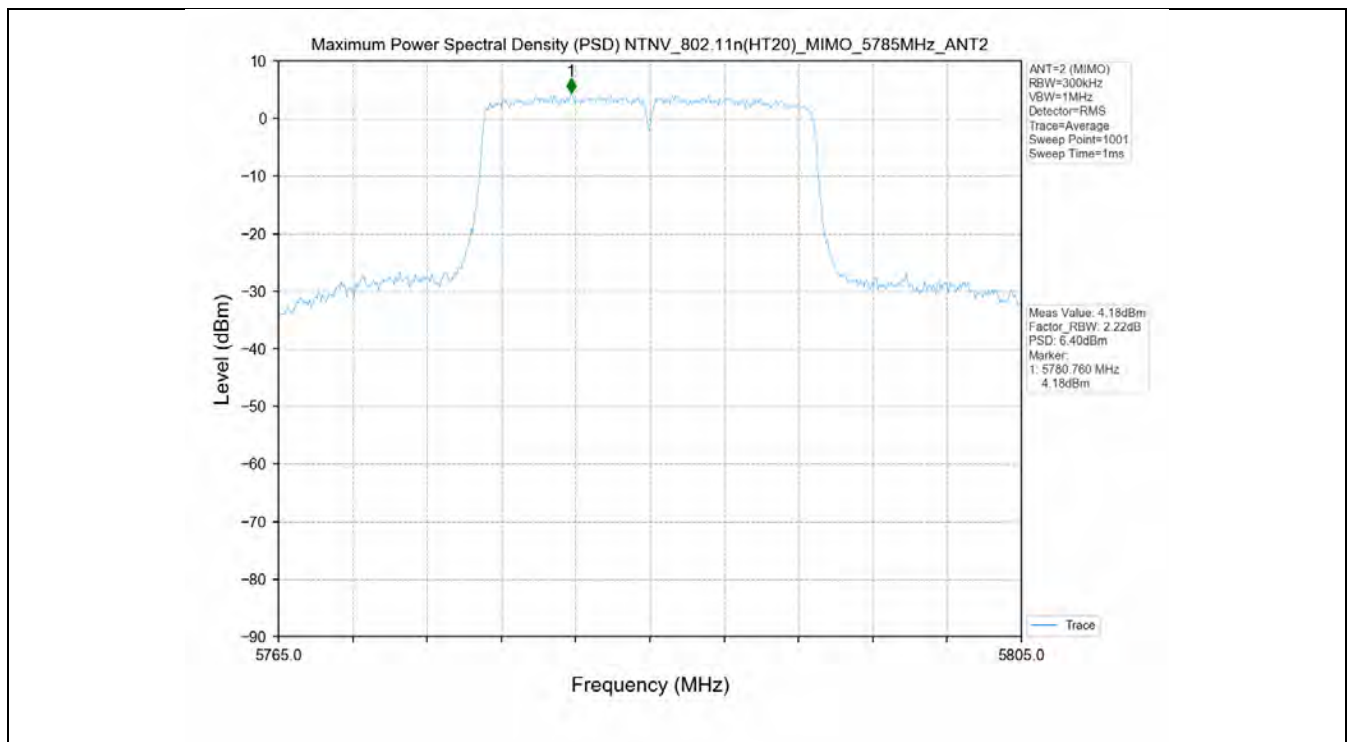
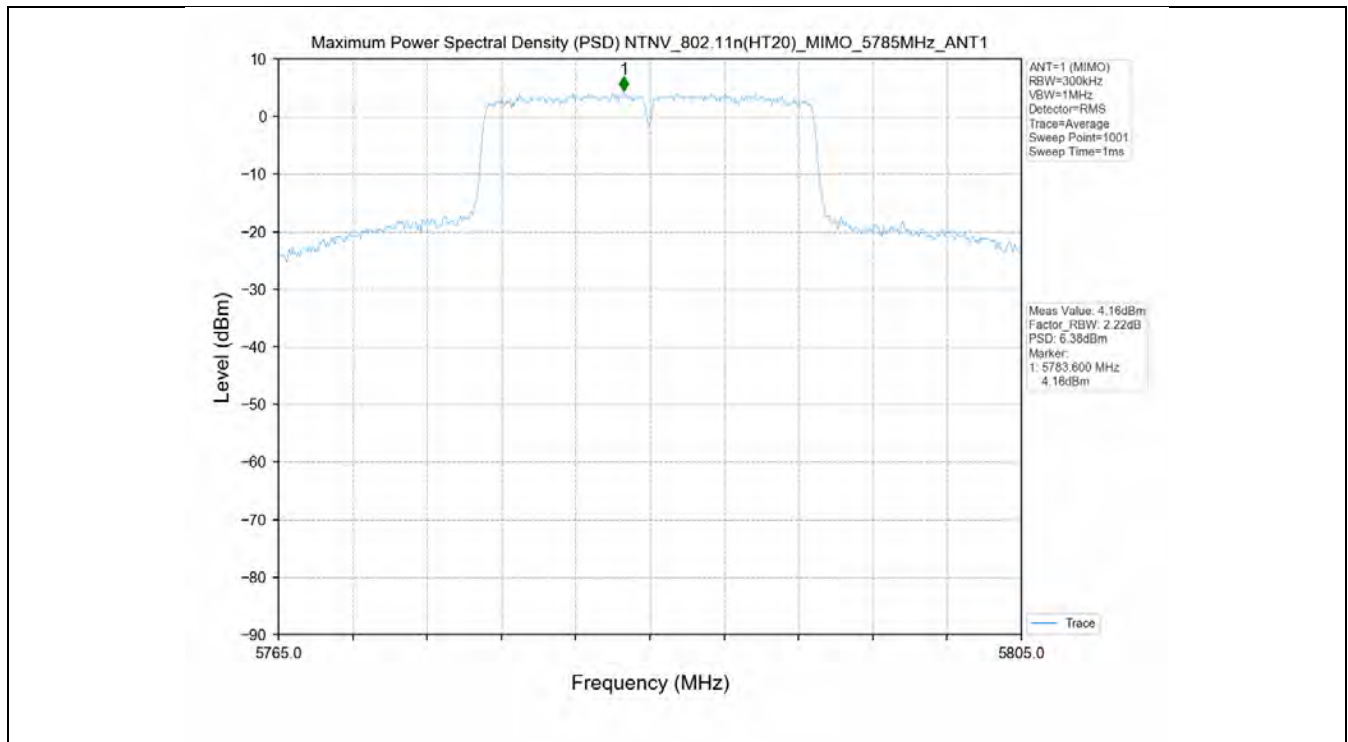


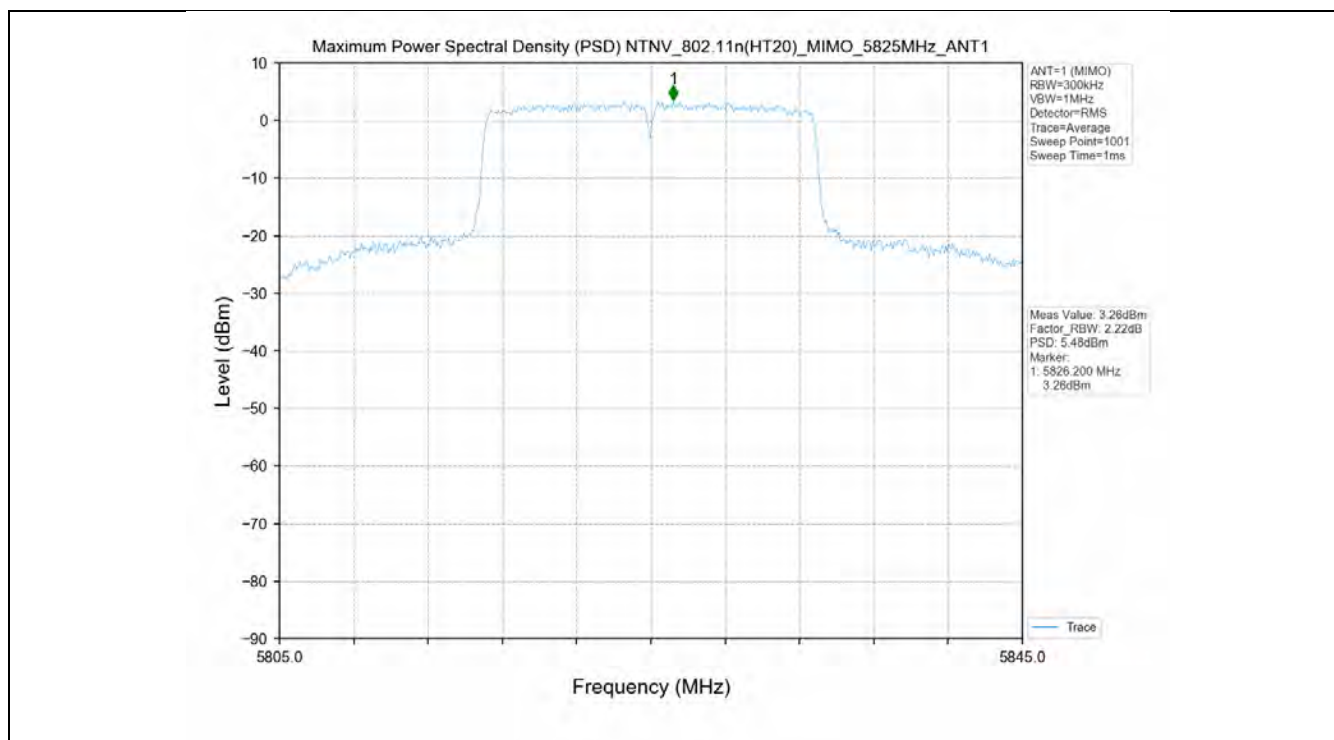
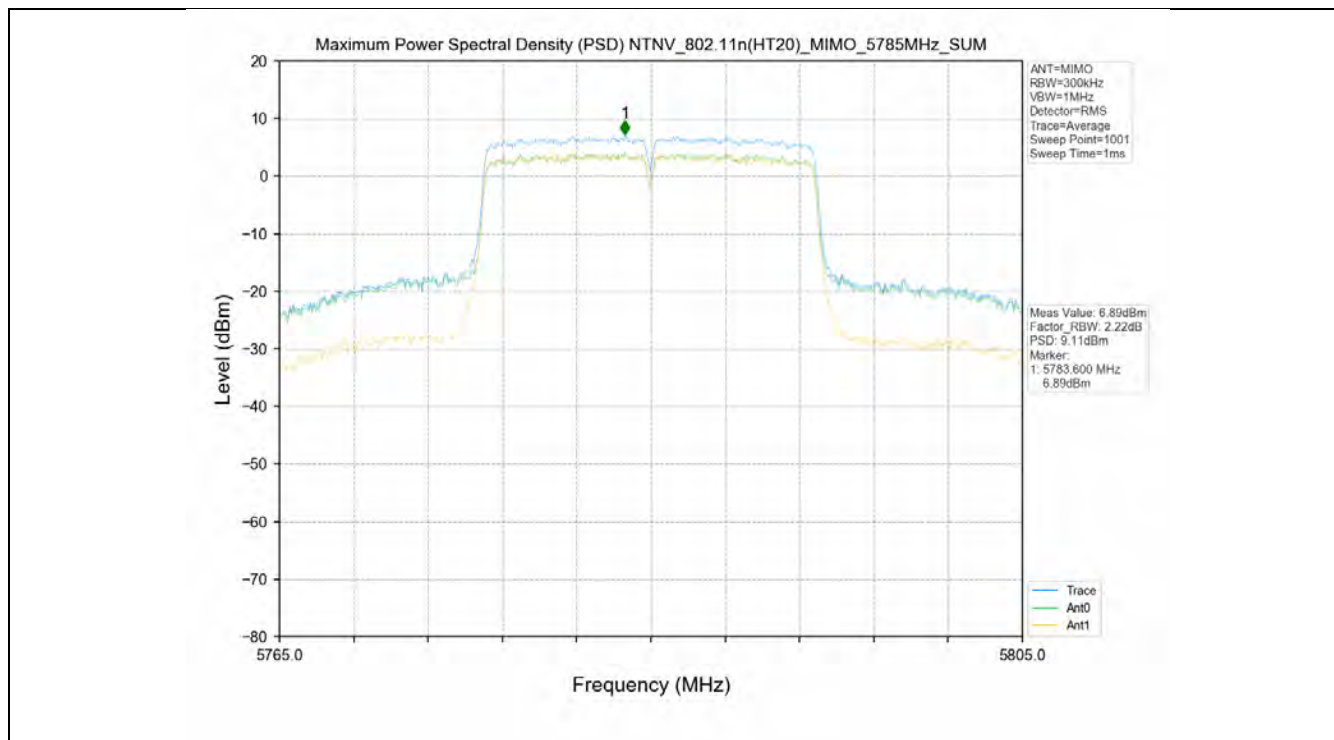
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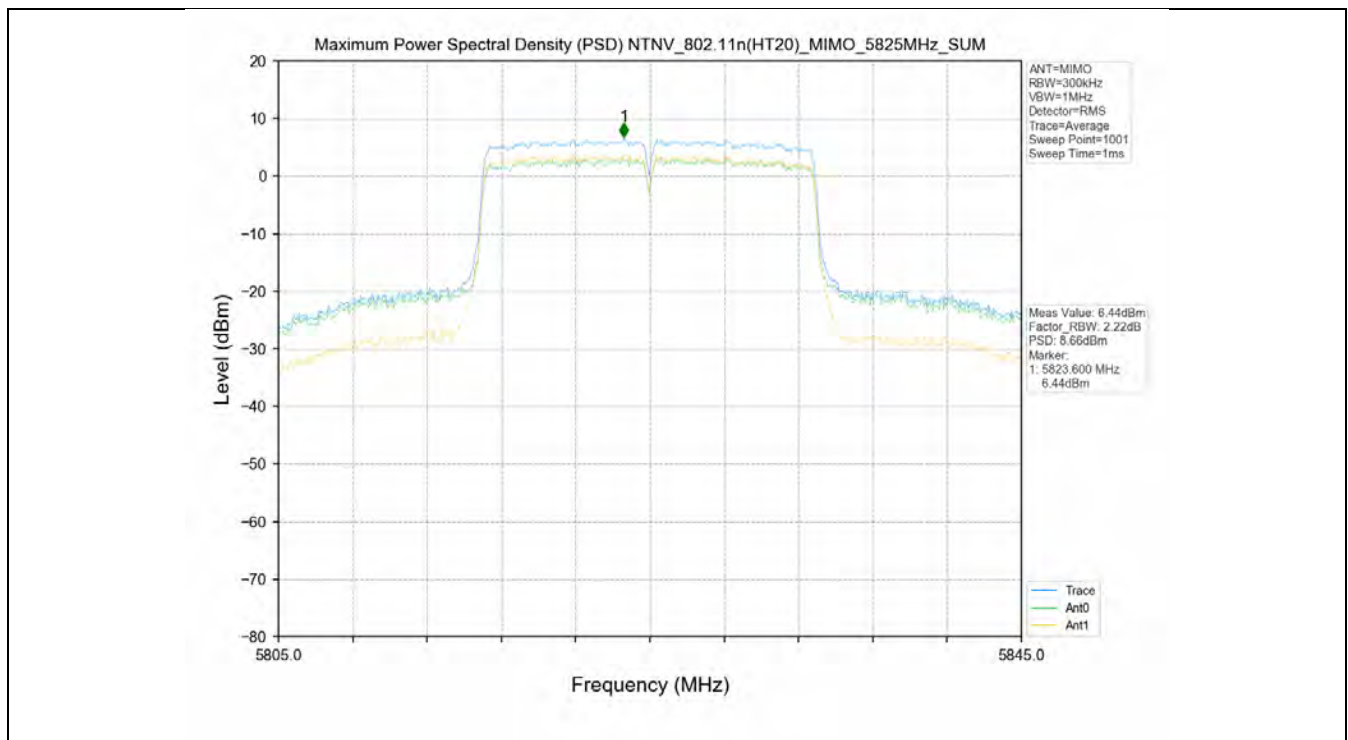
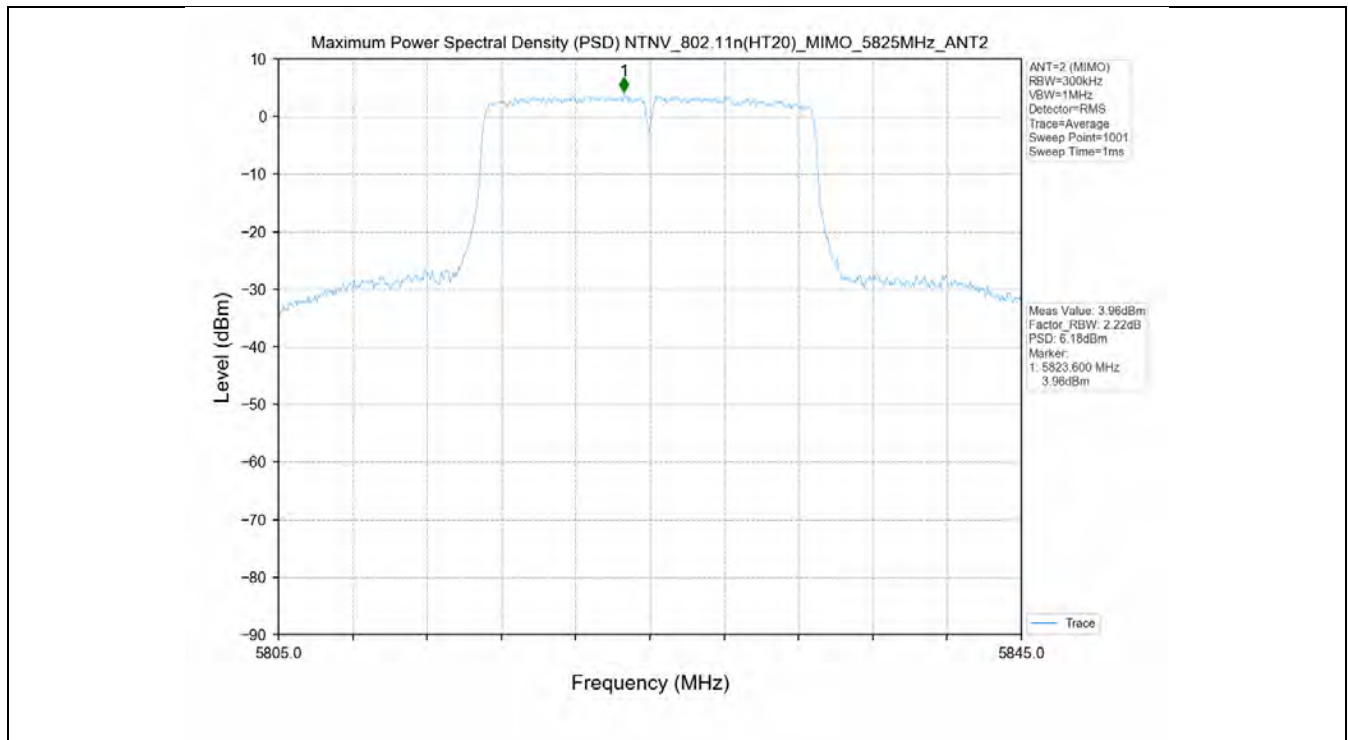
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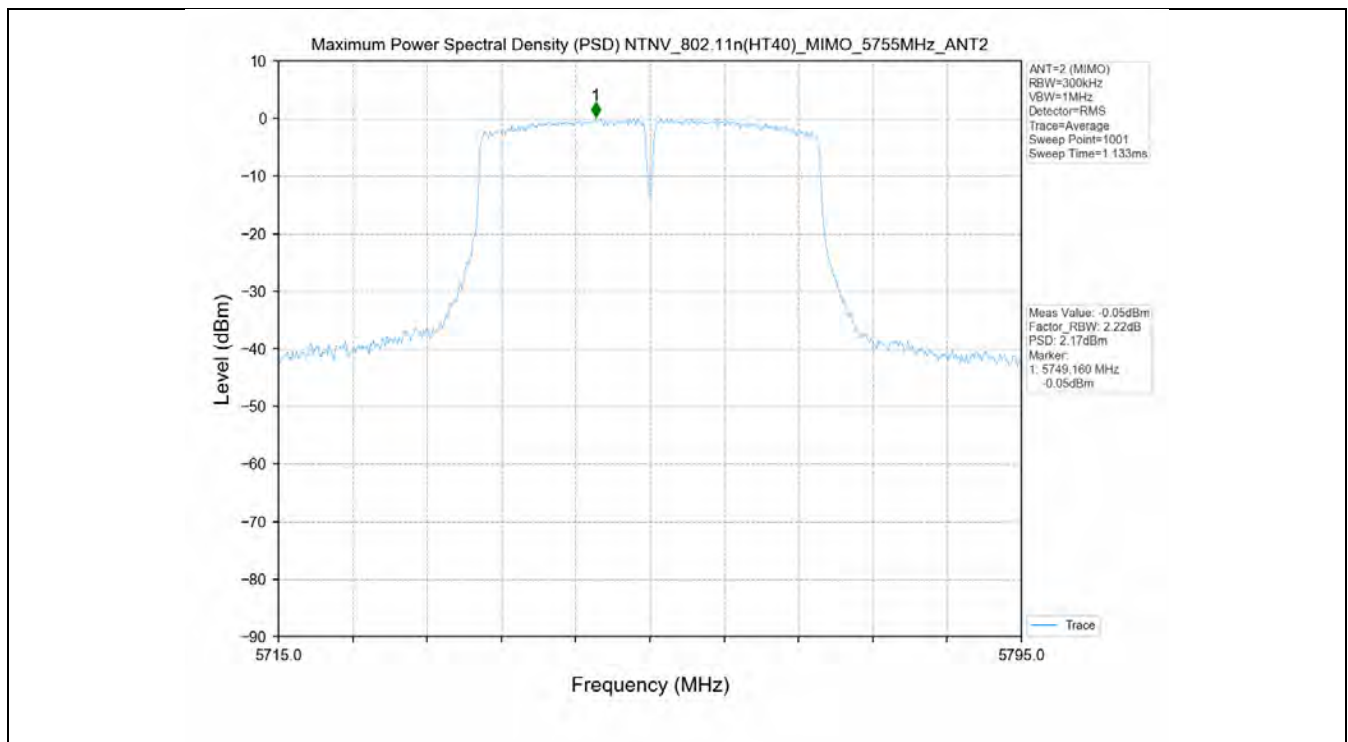
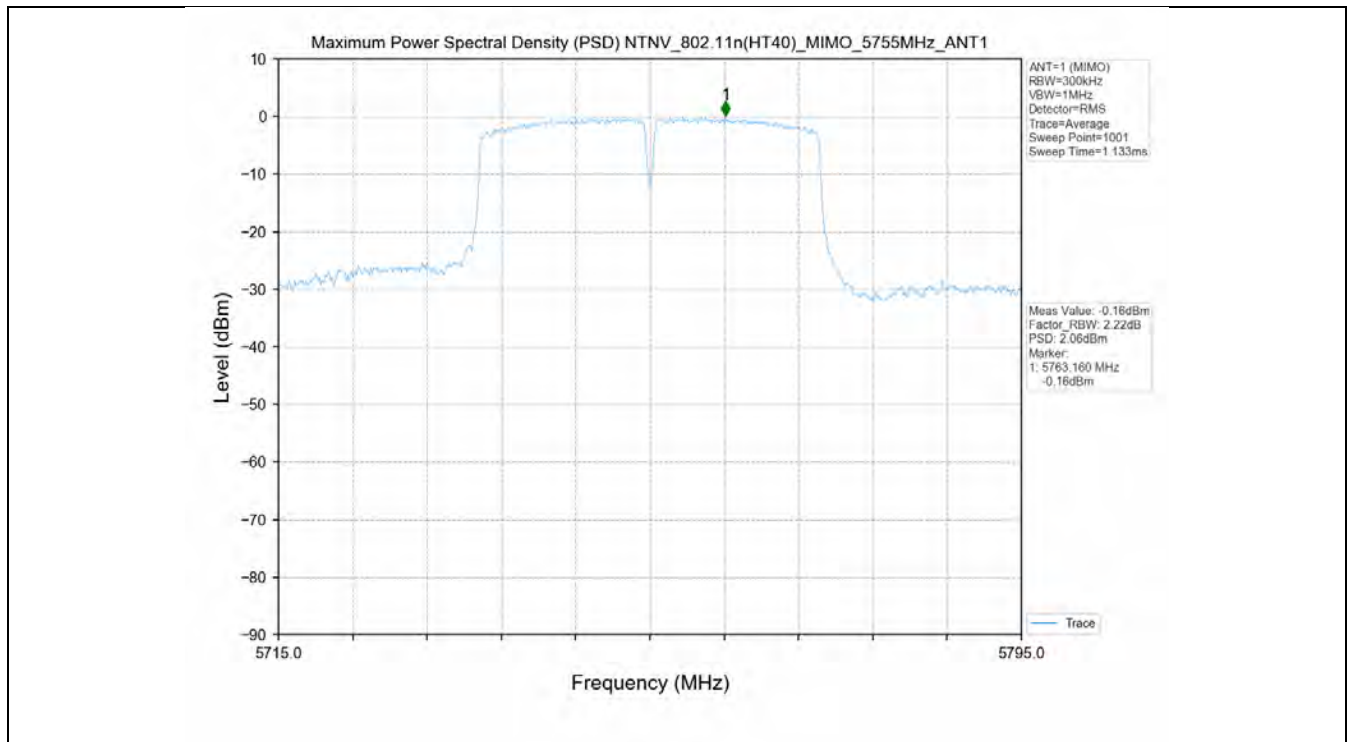


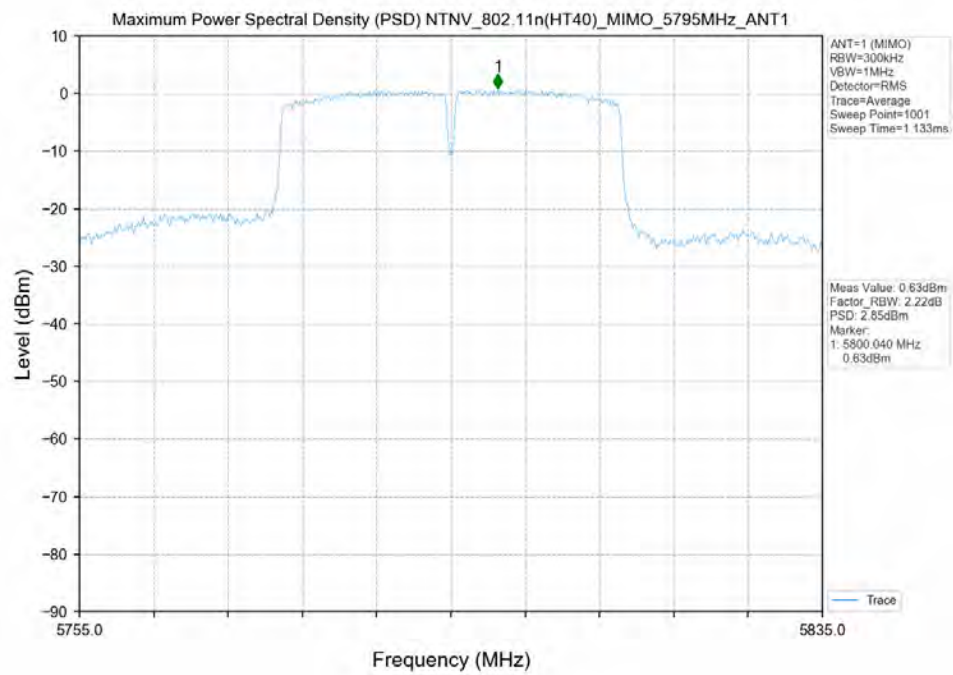
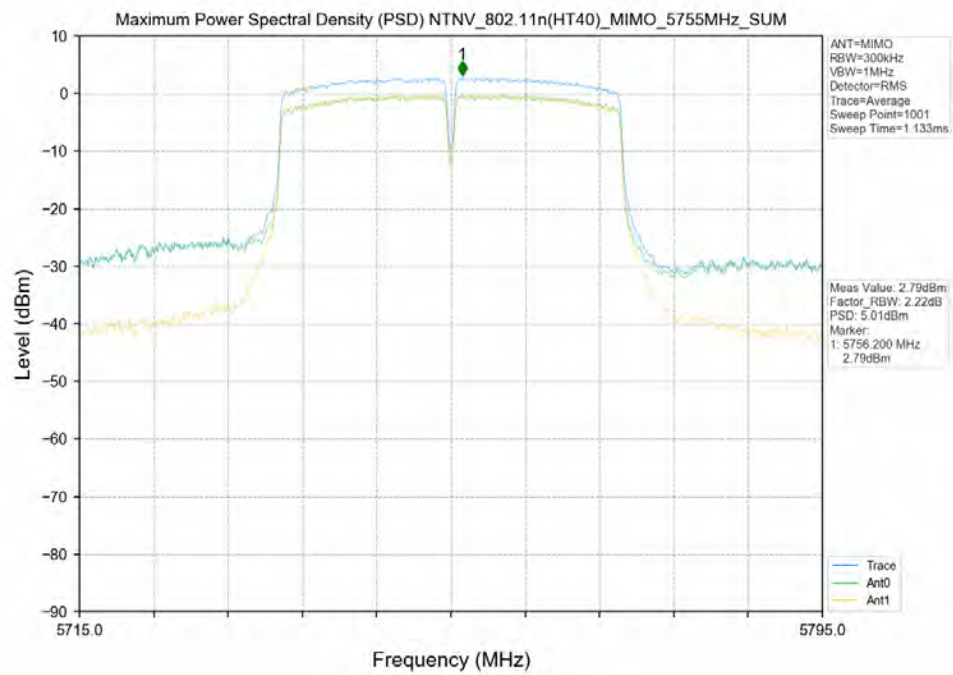
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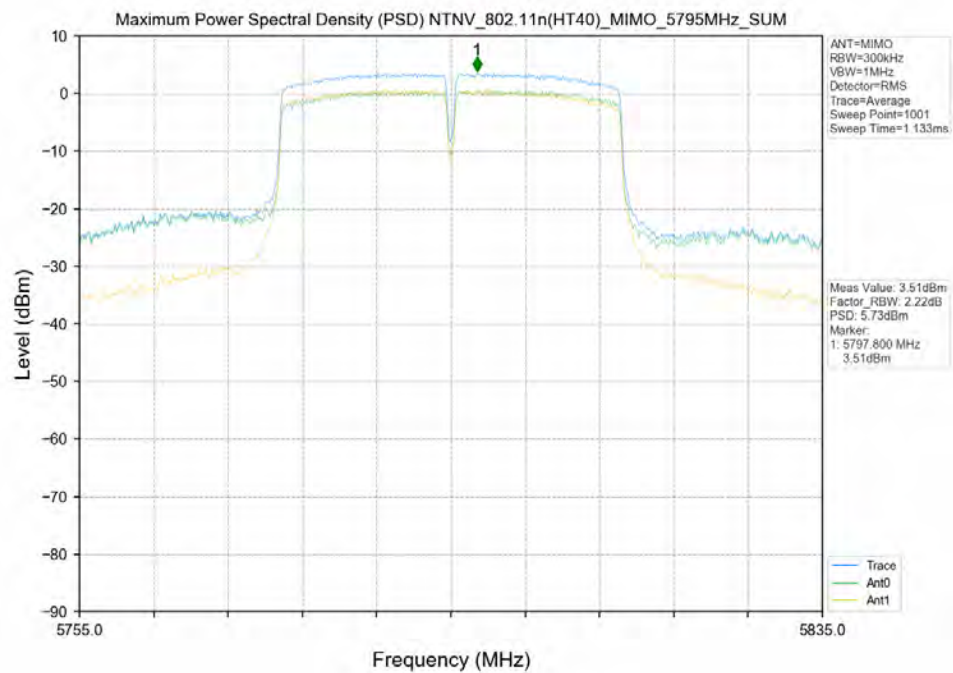
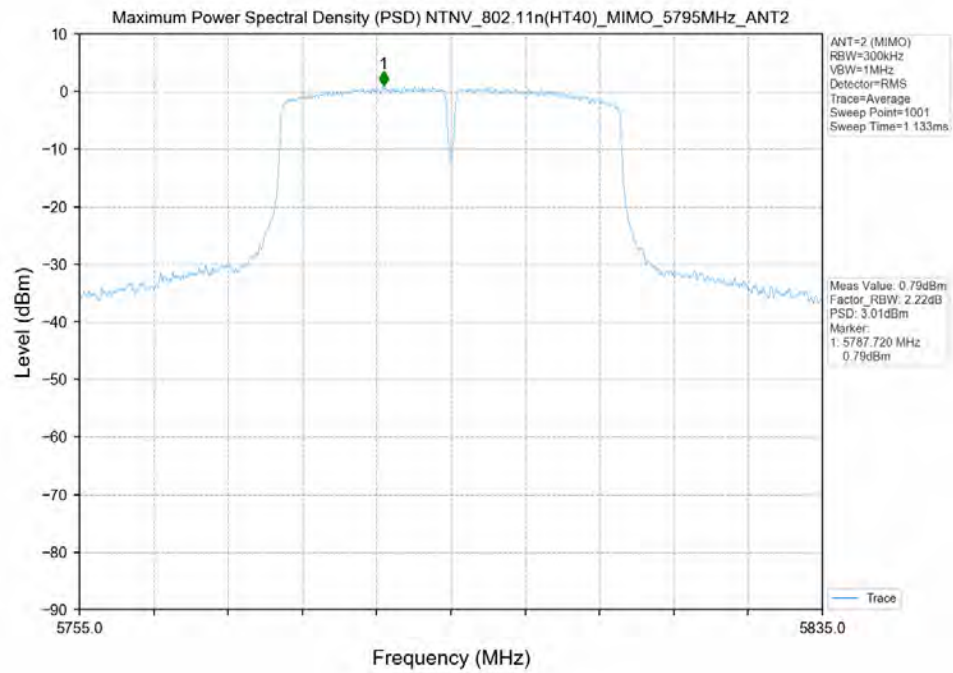




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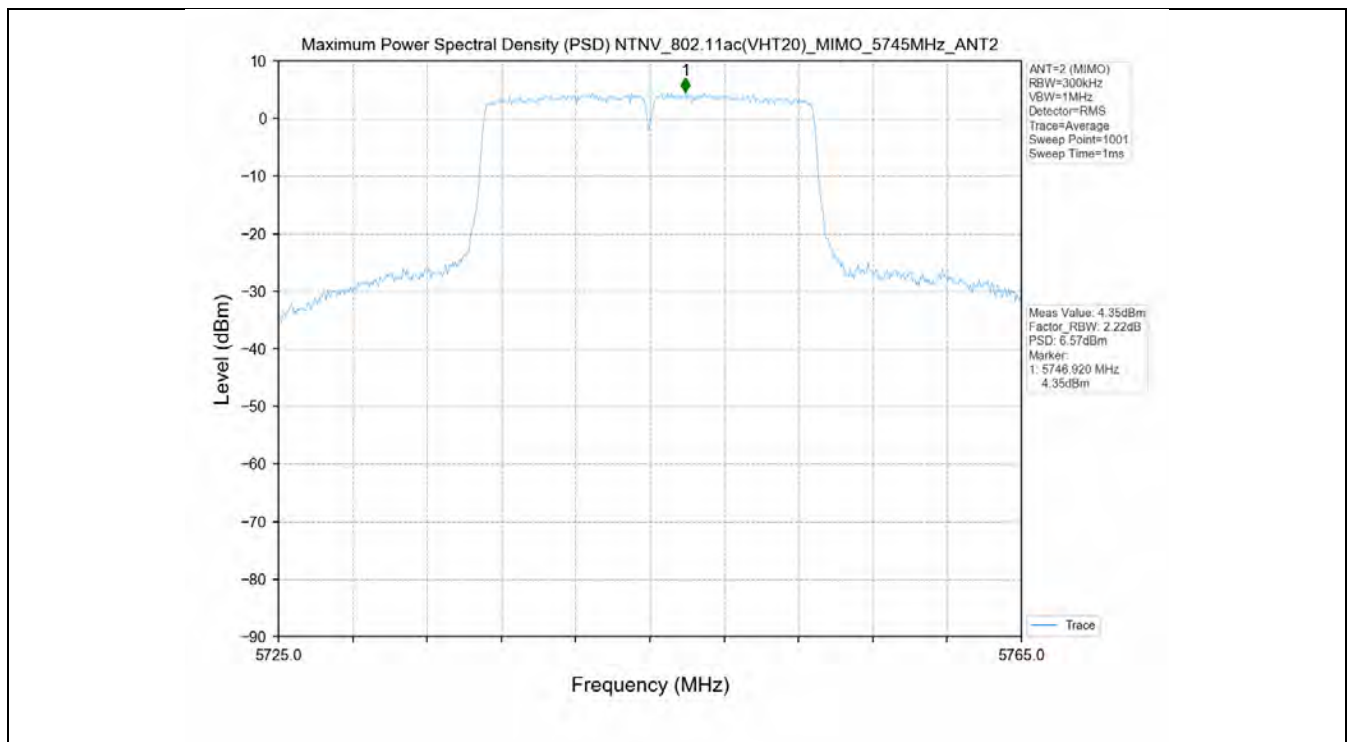
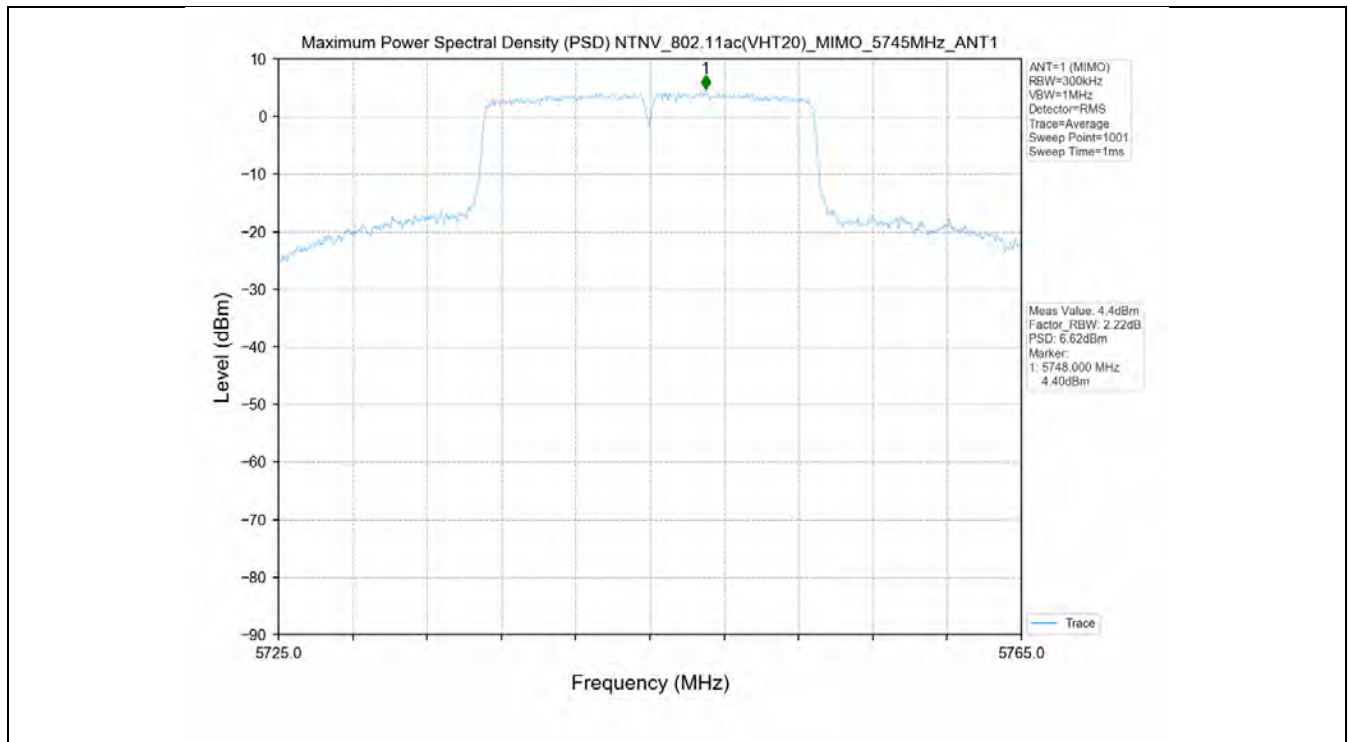






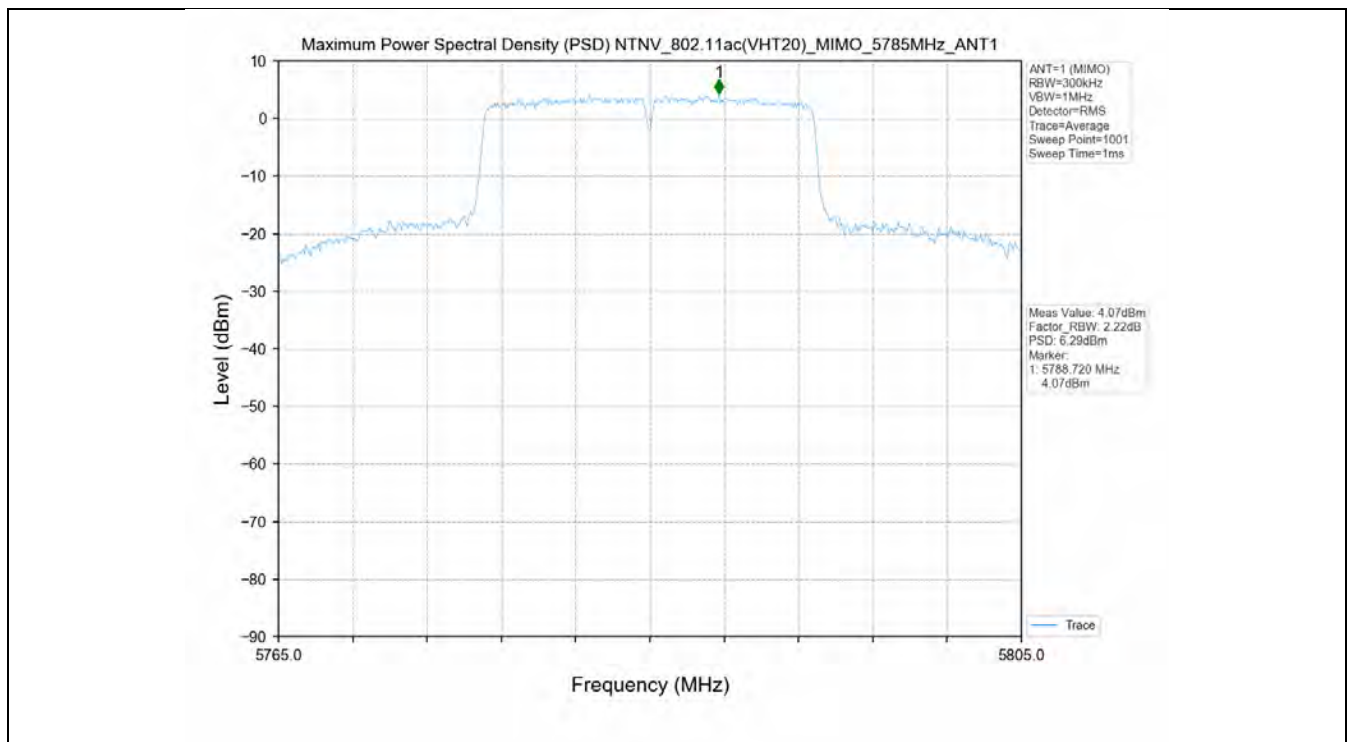
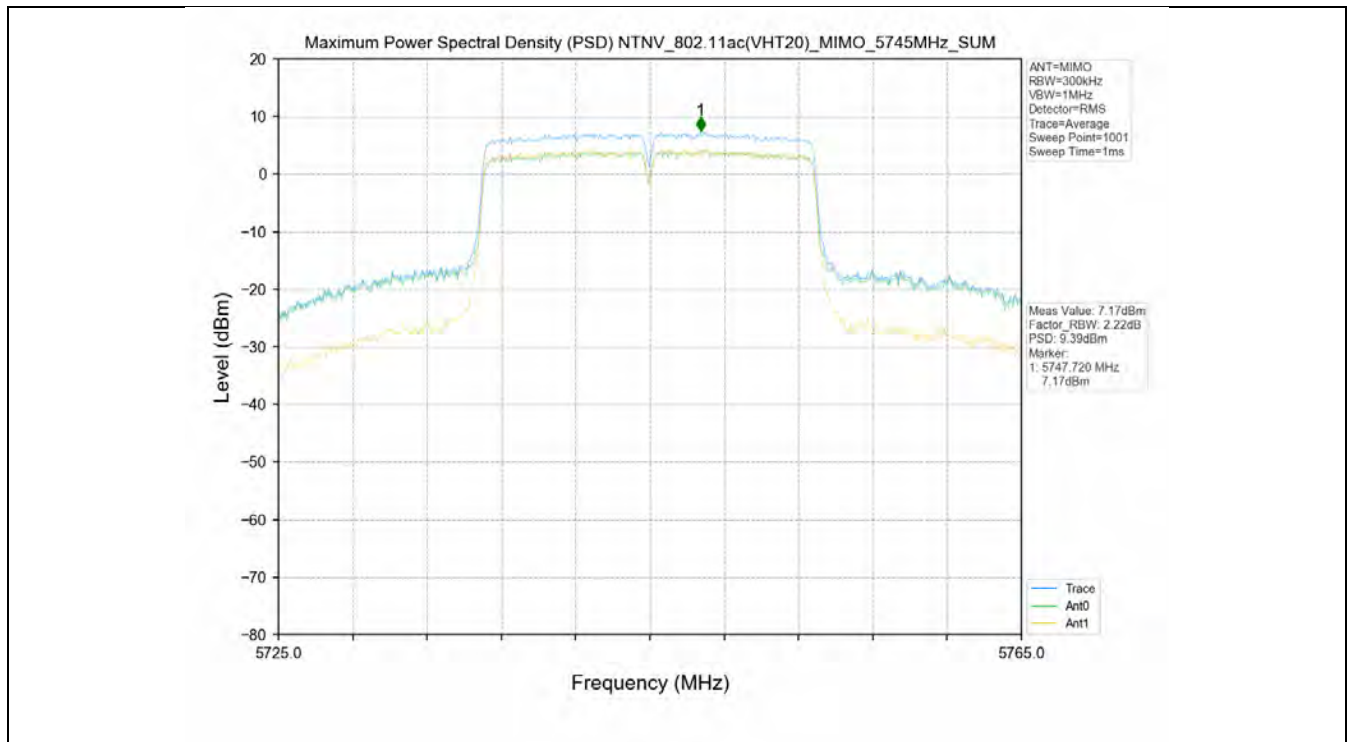


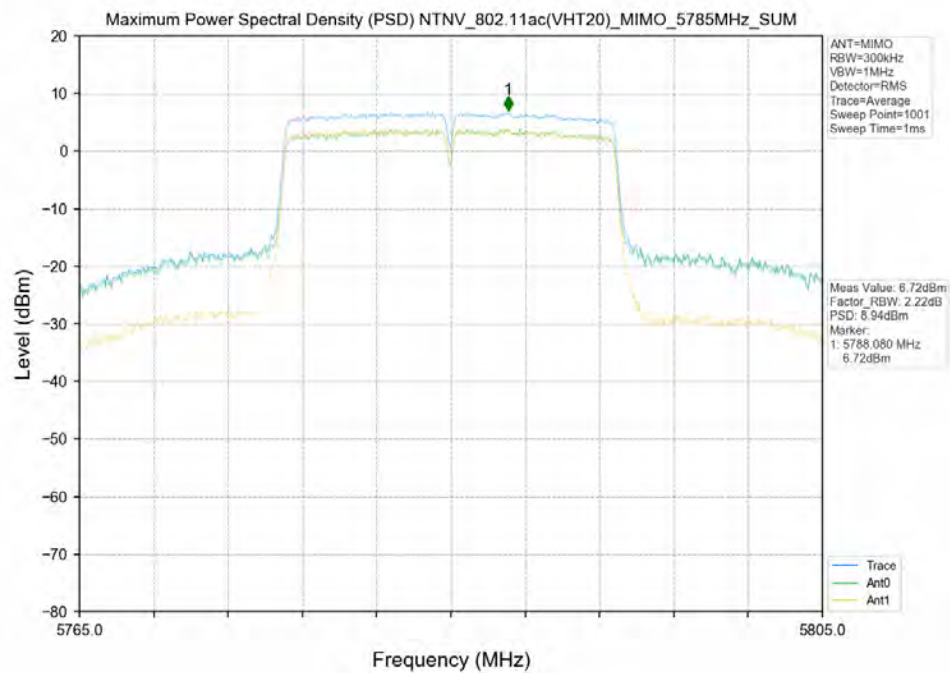
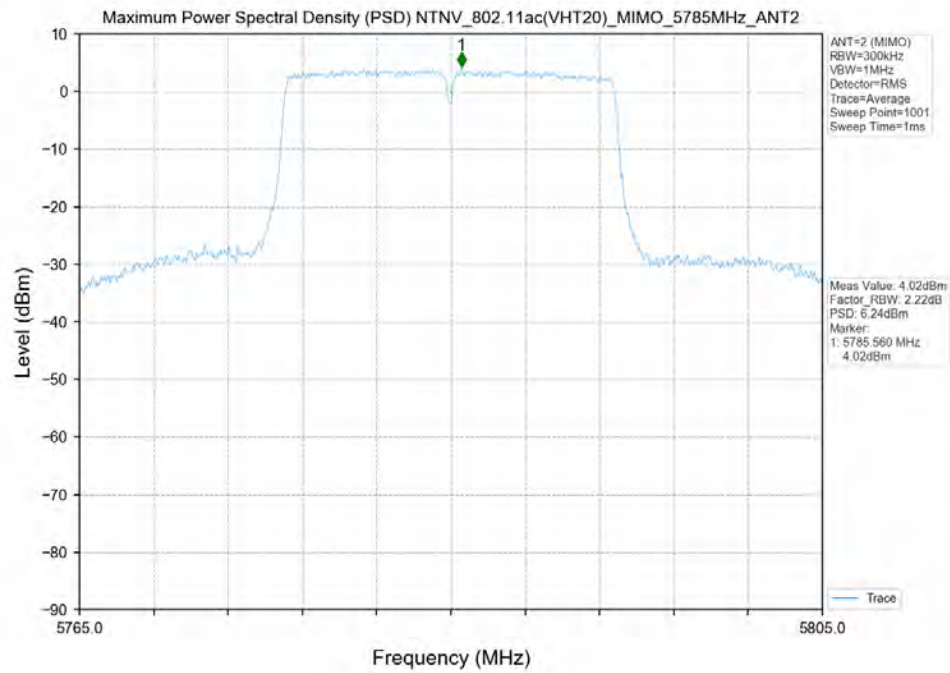
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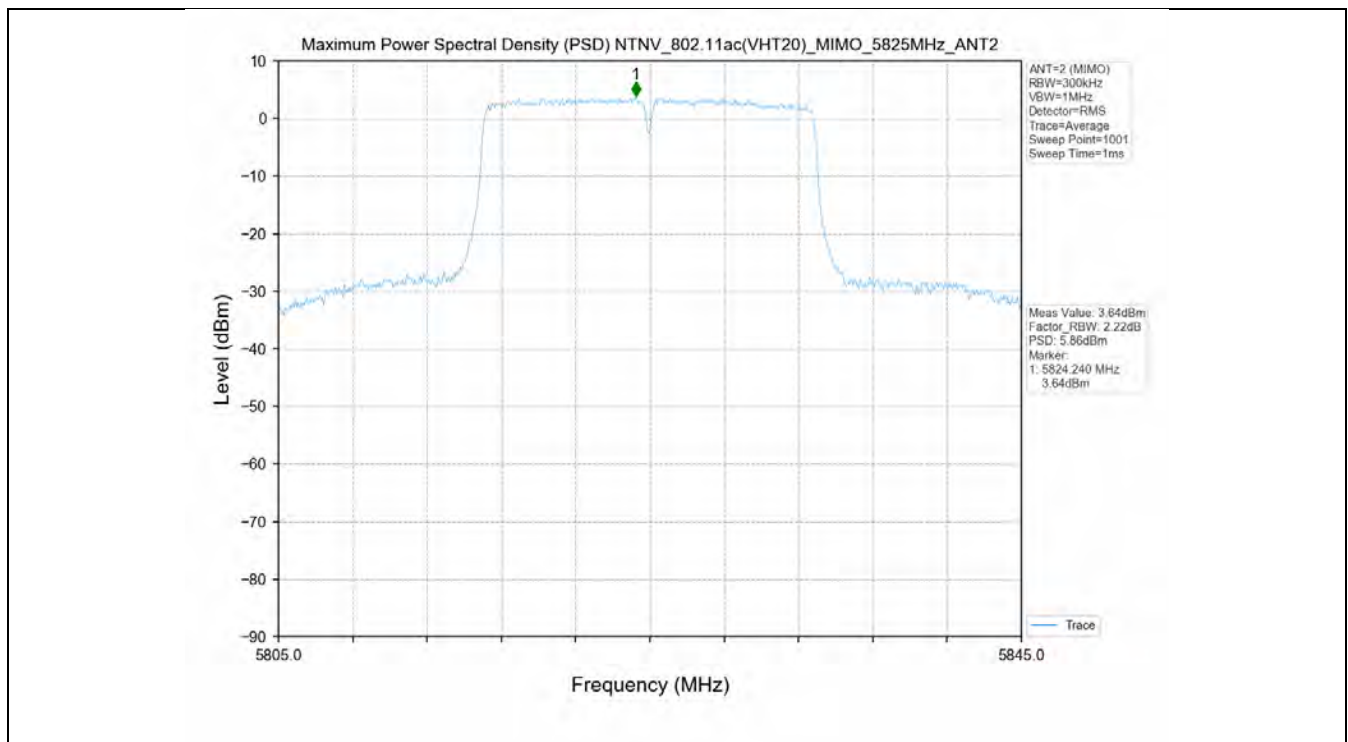
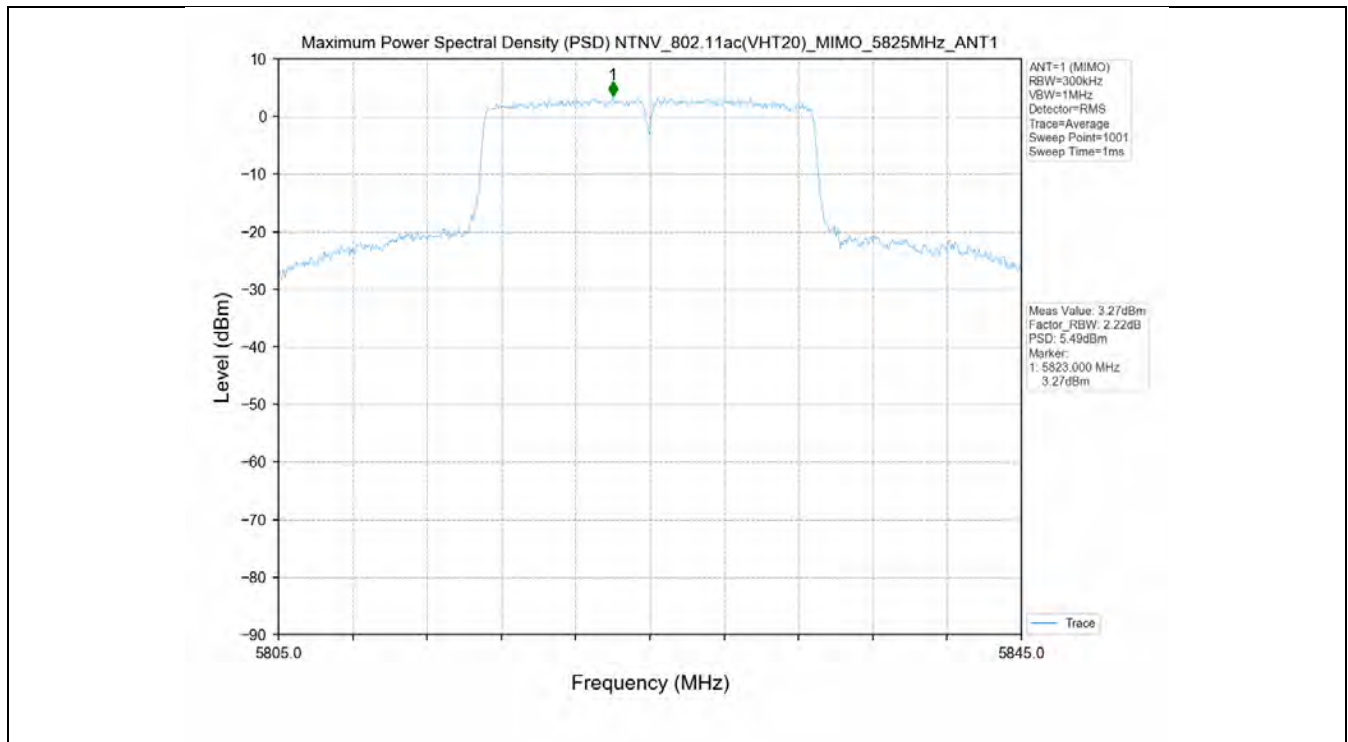
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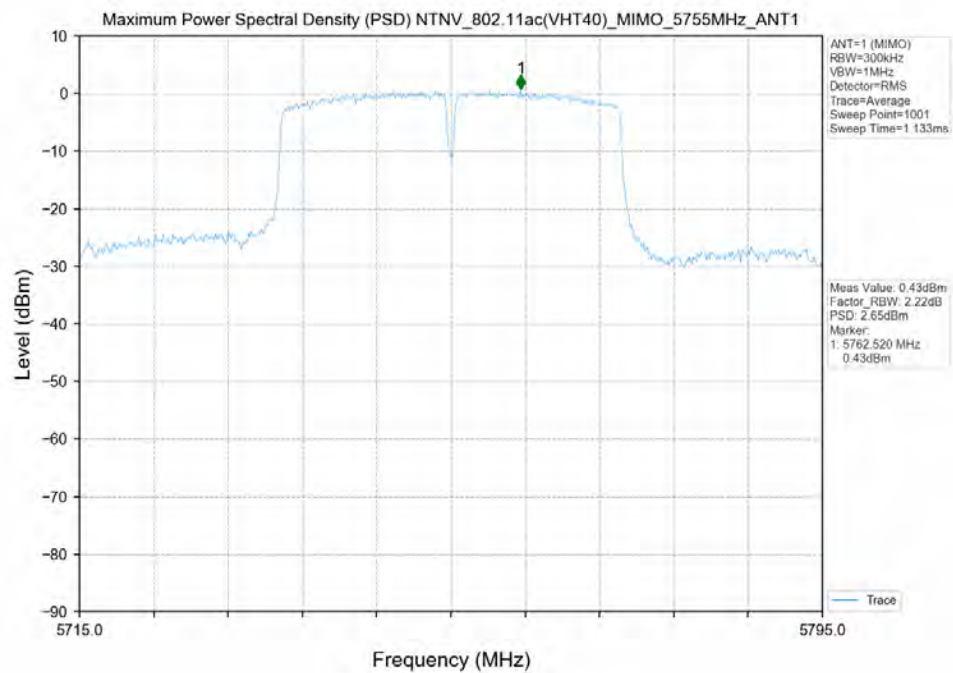
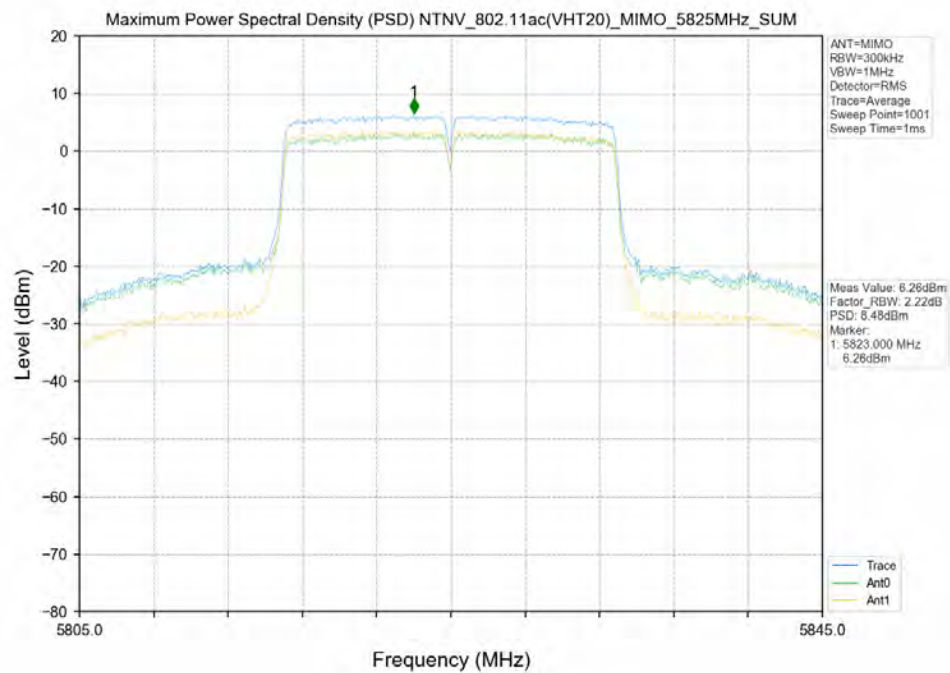


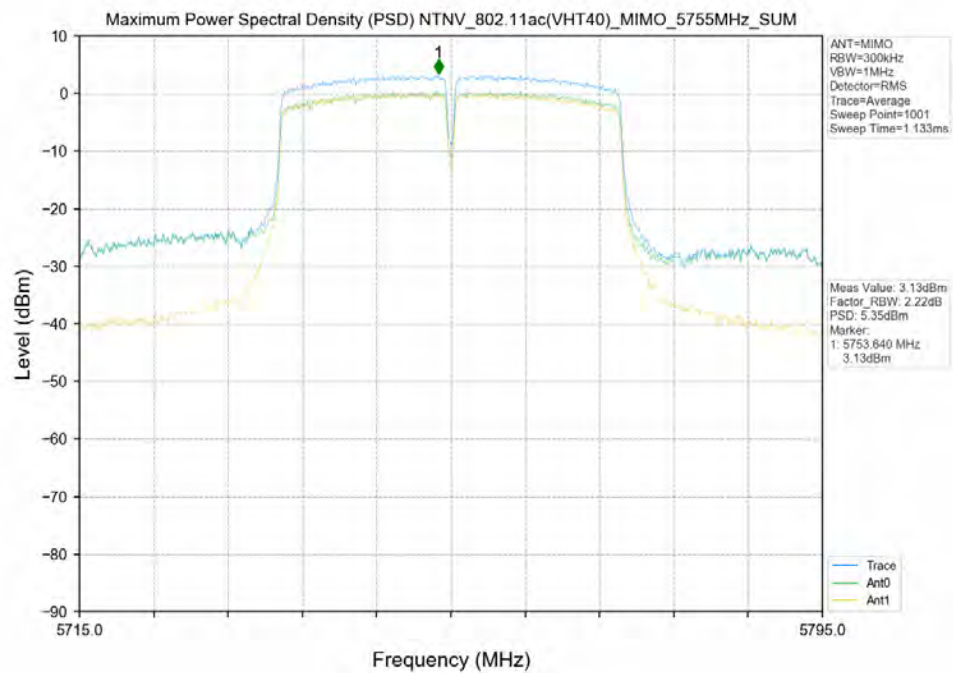
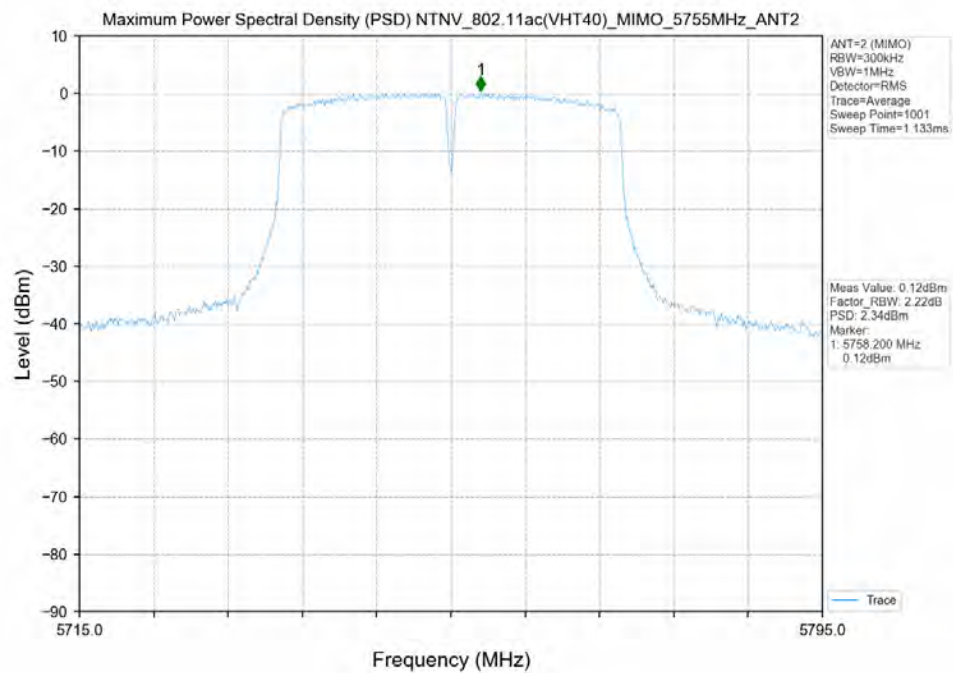




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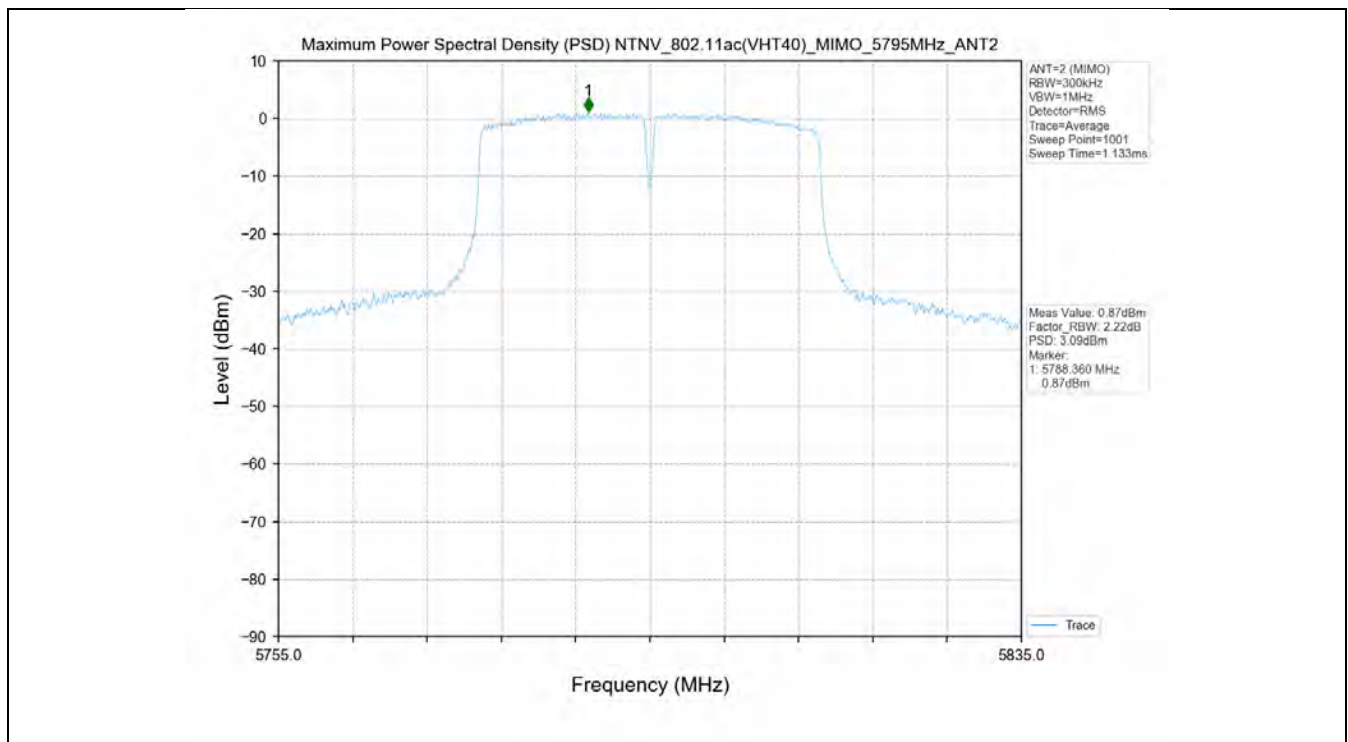
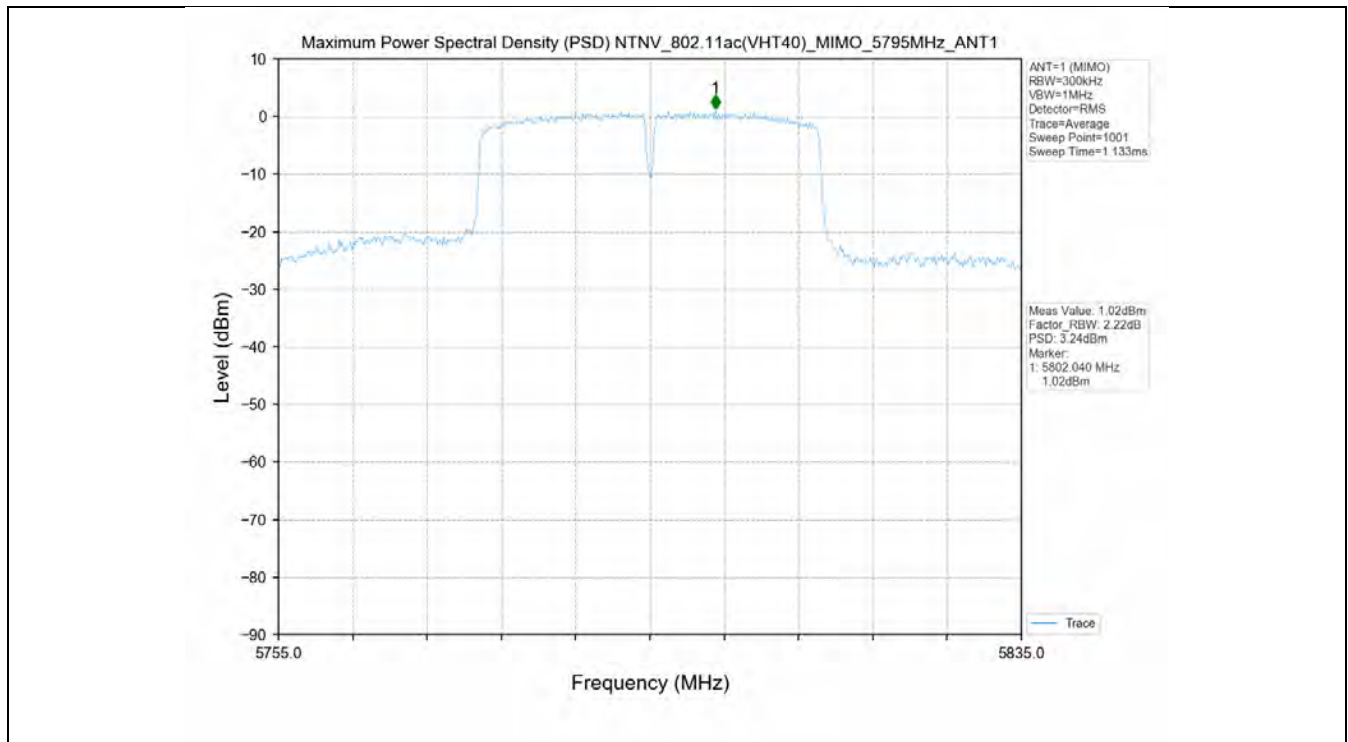






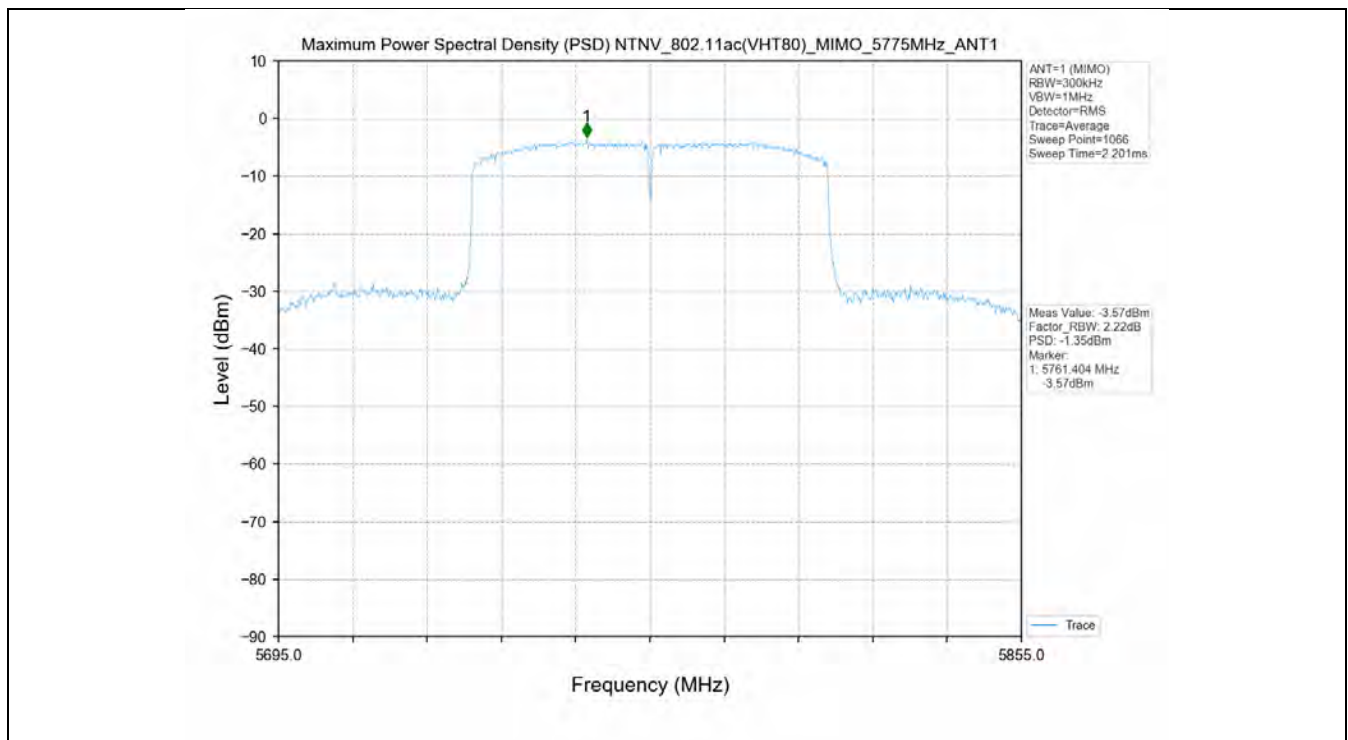
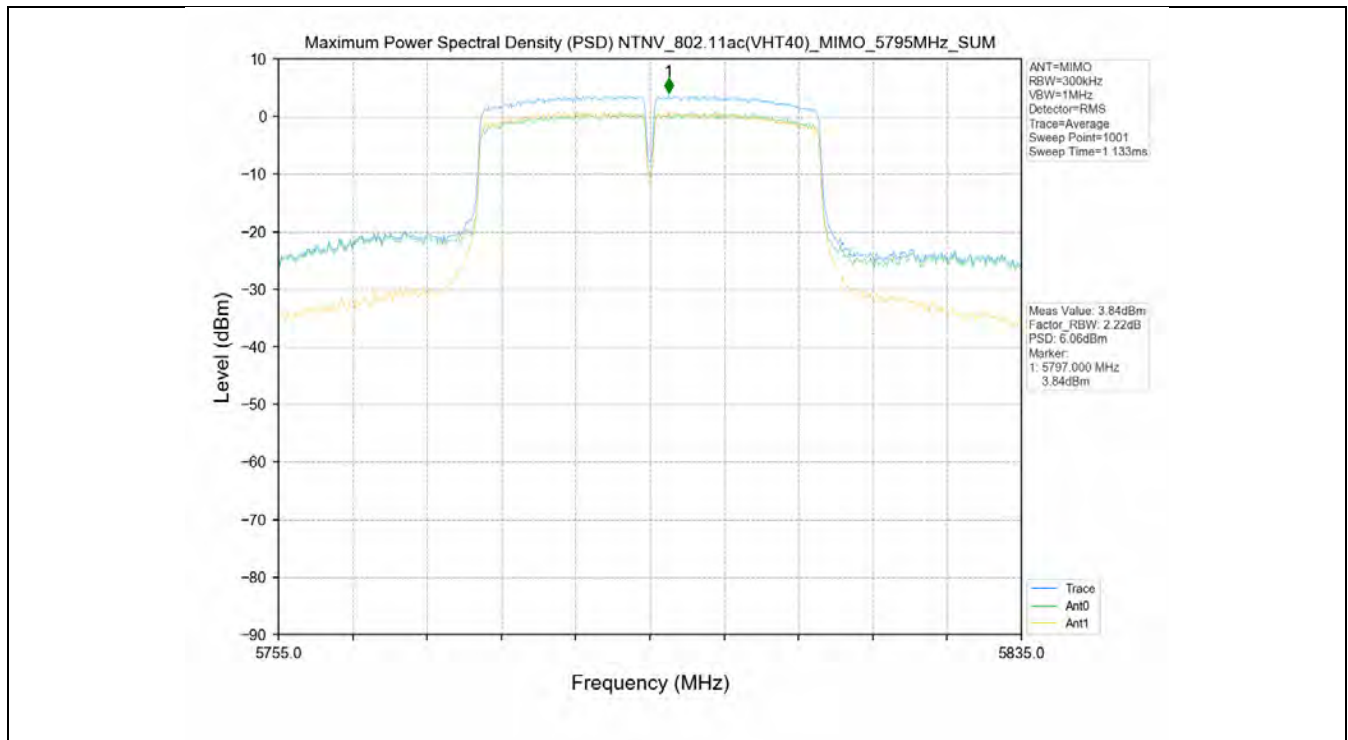


# SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



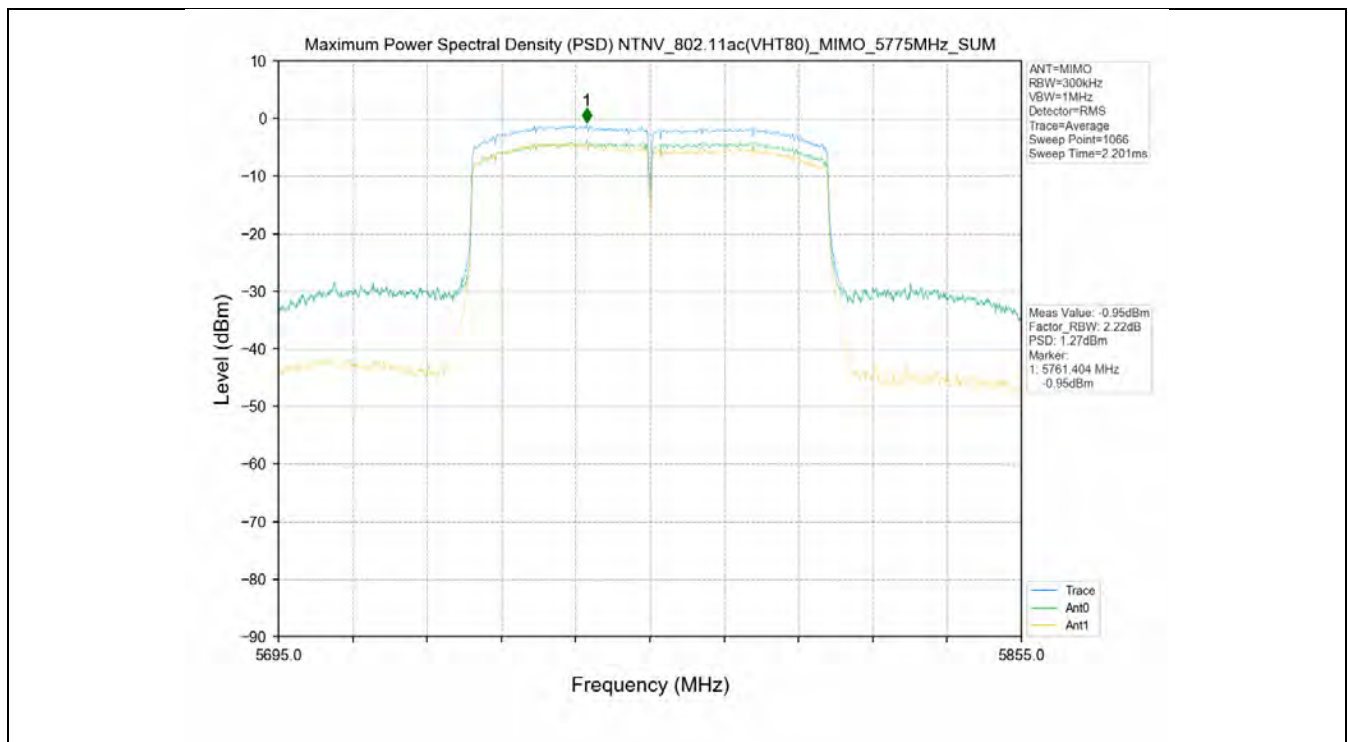
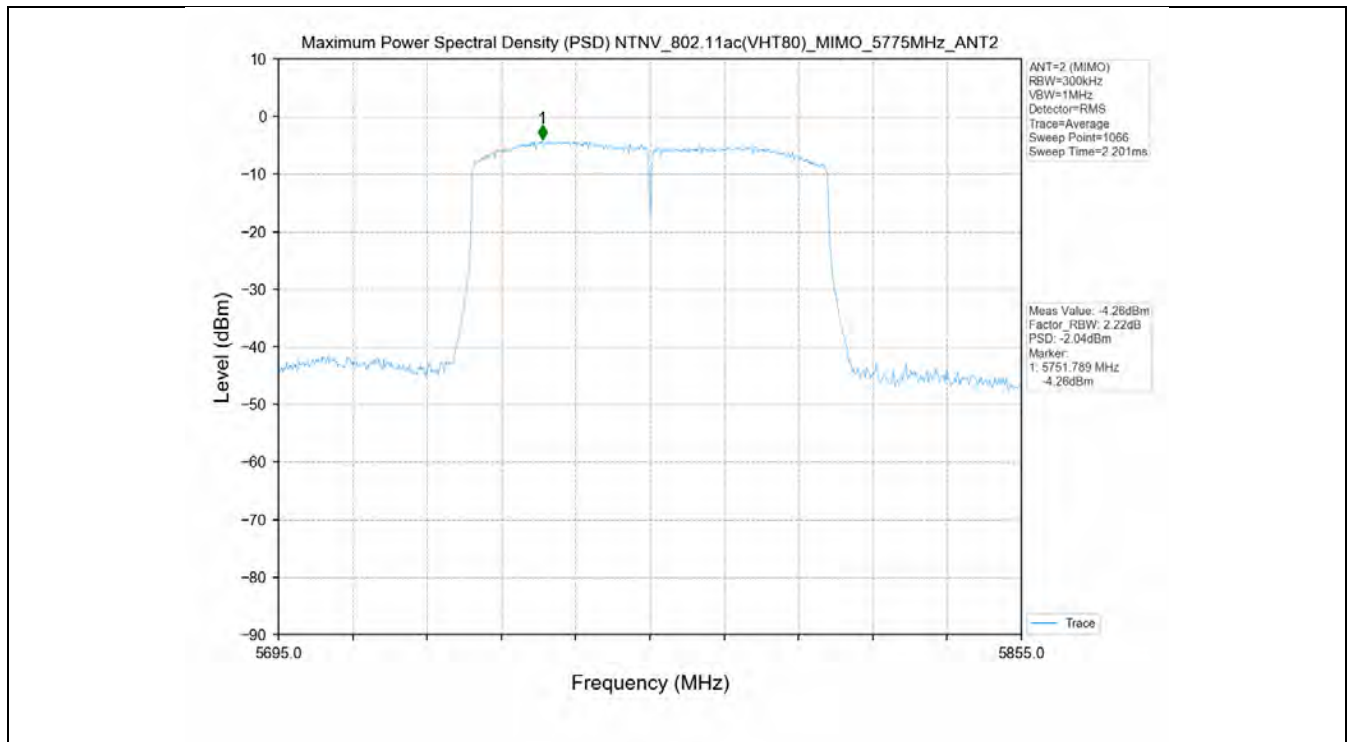


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## 5. Frequency Stability

### 5.1 Test Result

| Band            | Test Conditions |               | Operation<br>Frequency<br><br>(MHz) | Test<br>Frequency<br>(MHz)          | Freq. Dev.<br>(MHz)        | Limit<br><br>(GHz)  | Result             |        |
|-----------------|-----------------|---------------|-------------------------------------|-------------------------------------|----------------------------|---------------------|--------------------|--------|
|                 | Volt (V AC)     | Temp (°C)     |                                     | ANT1                                | ANT1                       |                     |                    |        |
| Band<br>UN-II 1 | Normal(120)     | Extreme(0)    | 5180                                | 5179.9803                           | -0.0197                    | 5.150-<br>5.250     | Pass               |        |
|                 |                 | Extreme(+10)  |                                     | 5180.0150                           | 0.0150                     |                     | Pass               |        |
|                 |                 | Extreme(+20)  |                                     | 5179.9921                           | -0.0079                    |                     | Pass               |        |
|                 |                 | Extreme(+30)  |                                     | 5180.0259                           | 0.0259                     |                     | Pass               |        |
|                 |                 | Extreme(+35)  |                                     | 5180.0148                           | 0.0148                     |                     | Pass               |        |
|                 | Extreme(102)    | Norma(+20)    | 5240                                | 5179.9985                           | -0.0015                    |                     | Pass               |        |
|                 | Extreme(138)    |               |                                     | 5240.0194                           | 0.0194                     |                     | Pass               |        |
|                 | Normal(120)     | Extreme(0)    |                                     | 5240.0044                           | 0.0044                     |                     | Pass               |        |
|                 |                 | Extreme(+10)  |                                     | 5239.9957                           | -0.0043                    |                     | Pass               |        |
|                 |                 | Extreme(+20)  |                                     | 5240.0016                           | 0.0016                     |                     | Pass               |        |
|                 |                 | Extreme(+30)  |                                     | 5239.9996                           | -0.0004                    |                     | Pass               |        |
|                 |                 | Extreme(+35)  |                                     | 5240.0143                           | 0.0147                     |                     | Pass               |        |
|                 | Extreme(102)    | Norma(20)     |                                     | 5179.9803                           | -0.0197                    |                     | Pass               |        |
|                 | Extreme(138)    |               |                                     | 5180.0150                           | 0.0150                     |                     | Pass               |        |
| Band            | Test Conditions |               |                                     | Operation<br>Frequency<br><br>(MHz) | Test<br>Frequency<br>(MHz) | Freq. Dev.<br>(MHz) | Limit<br><br>(GHz) | Result |
|                 | Volt (V AC)     | Temp (°C)     |                                     |                                     | ANT1                       | ANT1                |                    |        |
| Band<br>UN-II 3 | Normal(120)     | Extreme(0)    |                                     | 5745                                | 5744.9917                  | -0.0083             | 5.725-<br>5.850    | Pass   |
|                 |                 | Extreme(+10)  |                                     |                                     | 5745.0131                  | 0.0131              |                    | Pass   |
|                 |                 | Extreme(+20)  |                                     |                                     | 5744.9900                  | -0.0100             |                    | Pass   |
|                 |                 | Extreme(+30)  | 5745.0074                           |                                     | 0.0074                     | Pass                |                    |        |
|                 |                 | Extreme(+35)  | 5745.0211                           |                                     | 0.0211                     | Pass                |                    |        |
|                 | Extreme(102)    | Norma(+20)    | 5825                                | 5744.9997                           | -0.0003                    | Pass                |                    |        |
|                 | Extreme(138)    |               |                                     | 5825.0081                           | 0.0081                     | Pass                |                    |        |
|                 | Normal(120)     | Extreme(0)    |                                     | 5825.0196                           | 0.0196                     | Pass                |                    |        |
|                 |                 | Extreme(+10)  |                                     | 5824.9889                           | -0.0111                    | Pass                |                    |        |
|                 |                 | Extreme(+20)  |                                     | 5825.0093                           | 0.0093                     | Pass                |                    |        |
|                 |                 | Extreme(+30)  |                                     | 5825.0069                           | 0.0069                     | Pass                |                    |        |
|                 |                 | Extreme(++35) |                                     | 5825.0041                           | 0.0041                     | Pass                |                    |        |
|                 | Extreme(102)    | Norma(20)     |                                     | 5744.9917                           | -0.0083                    | Pass                |                    |        |
|                 | Extreme(138)    |               |                                     | 5745.0131                           | 0.0131                     | Pass                |                    |        |