



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: PS4 Bluetooth Controller

Test Model: SZ-4015B

Environmental Conditions

|                    |            |
|--------------------|------------|
| Temperature:       | 23.8° C    |
| Relative Humidity: | 52.1%      |
| ATM Pressure:      | 100.0 kPa  |
| Test Engineer:     | Eason Zhou |
| Supervised by:     | Nick Peng  |





## A.1 -20dB Bandwidth

| Condition | Mode  | Frequency (MHz) | Antenna | -20 dB Bandwidth (MHz) | Limit -20 dB Bandwidth (MHz) | Verdict |
|-----------|-------|-----------------|---------|------------------------|------------------------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | 0.949                  | N/A                          | Pass    |
| NVNT      | 1-DH5 | 2441            | Ant1    | 0.974                  | N/A                          | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | 0.954                  | N/A                          | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | 1.284                  | N/A                          | Pass    |
| NVNT      | 2-DH5 | 2441            | Ant1    | 1.281                  | N/A                          | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | 1.307                  | N/A                          | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | 1.283                  | N/A                          | Pass    |
| NVNT      | 3-DH5 | 2441            | Ant1    | 1.282                  | N/A                          | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | 1.303                  | N/A                          | Pass    |





## Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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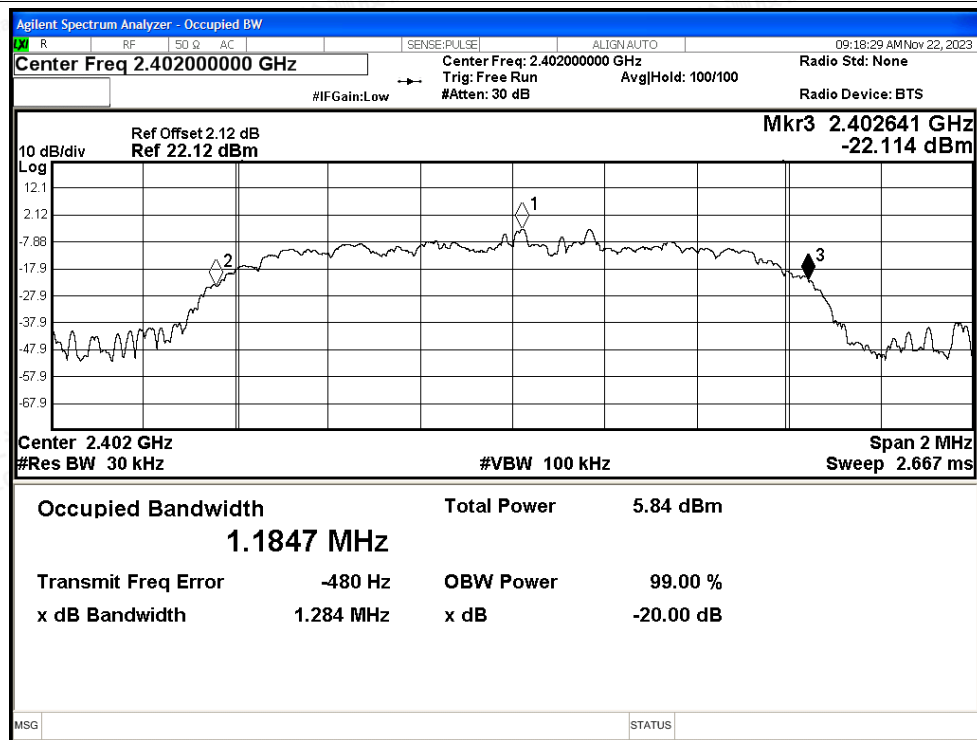
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## -20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



## -20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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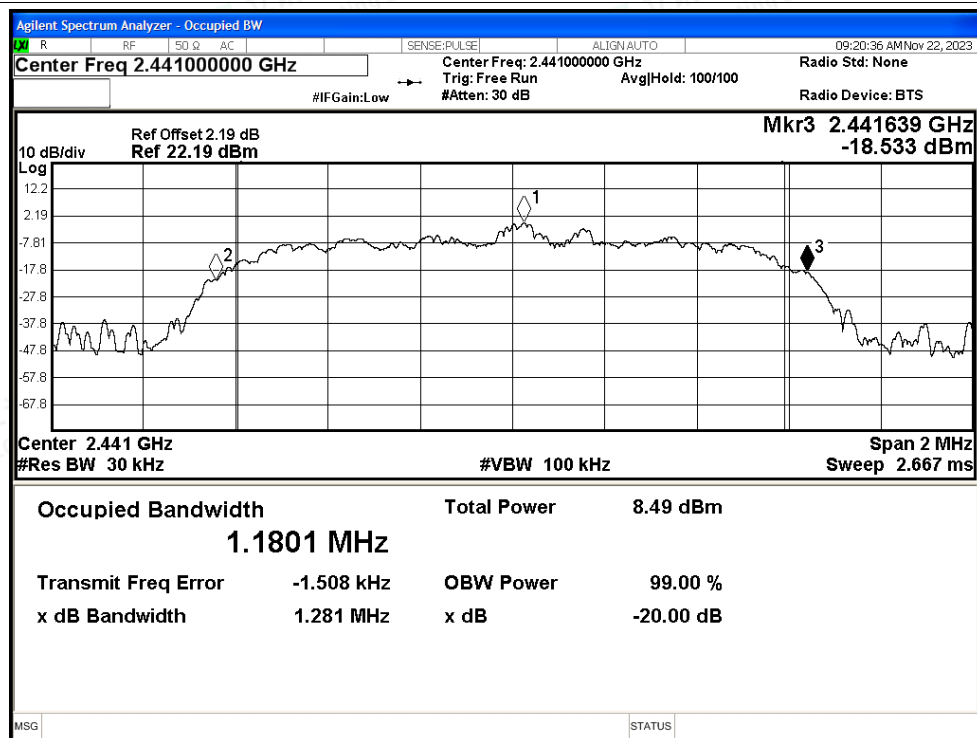
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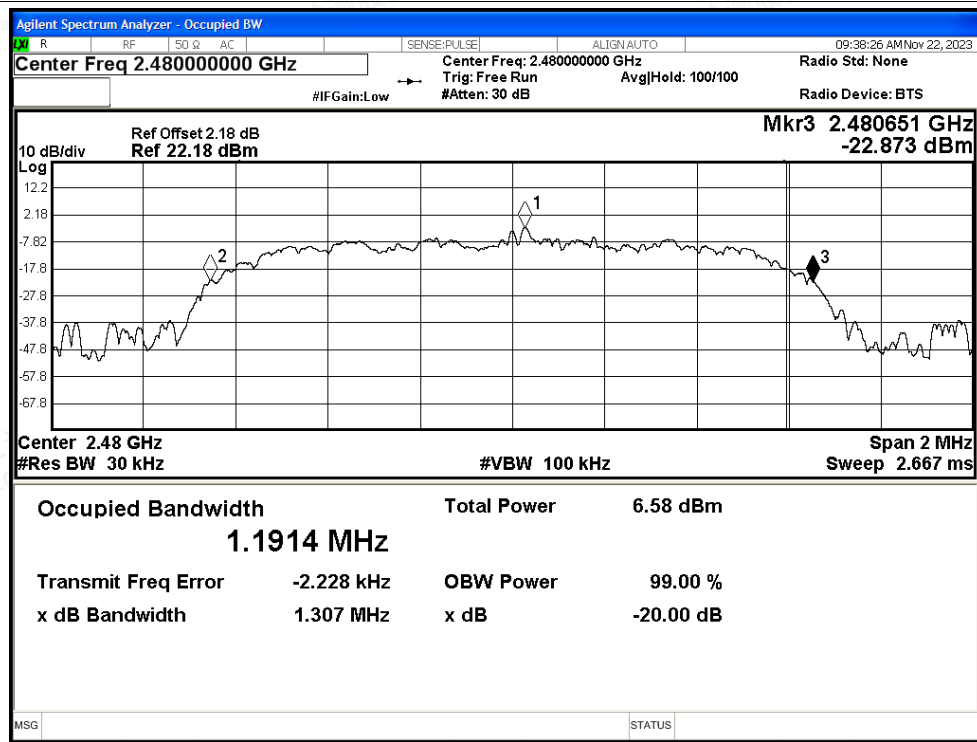
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## -20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



## -20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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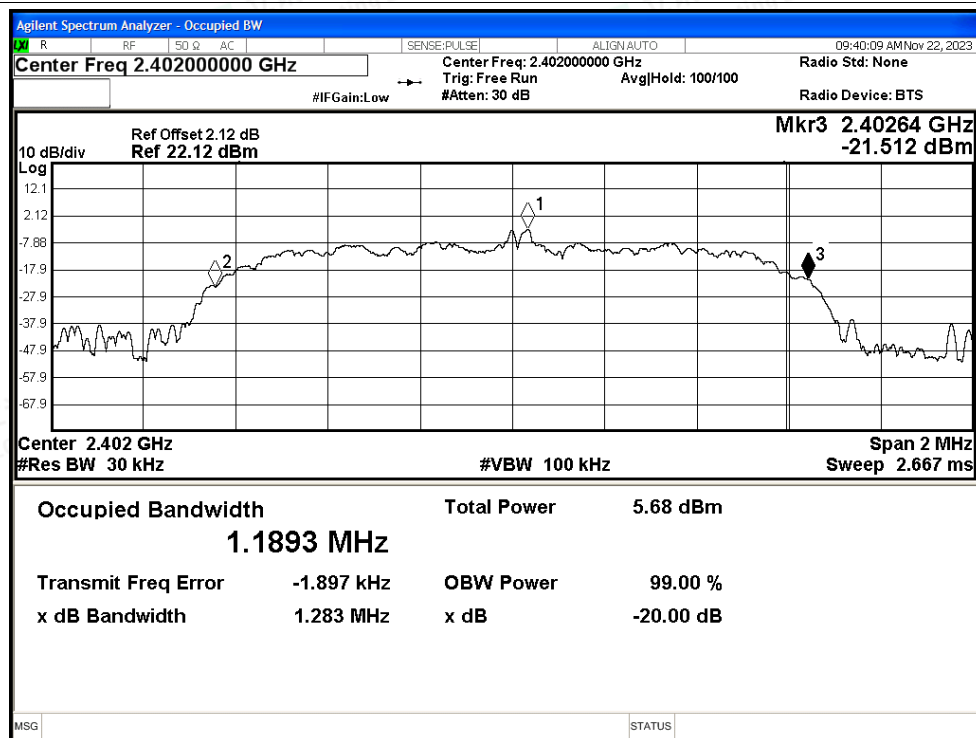
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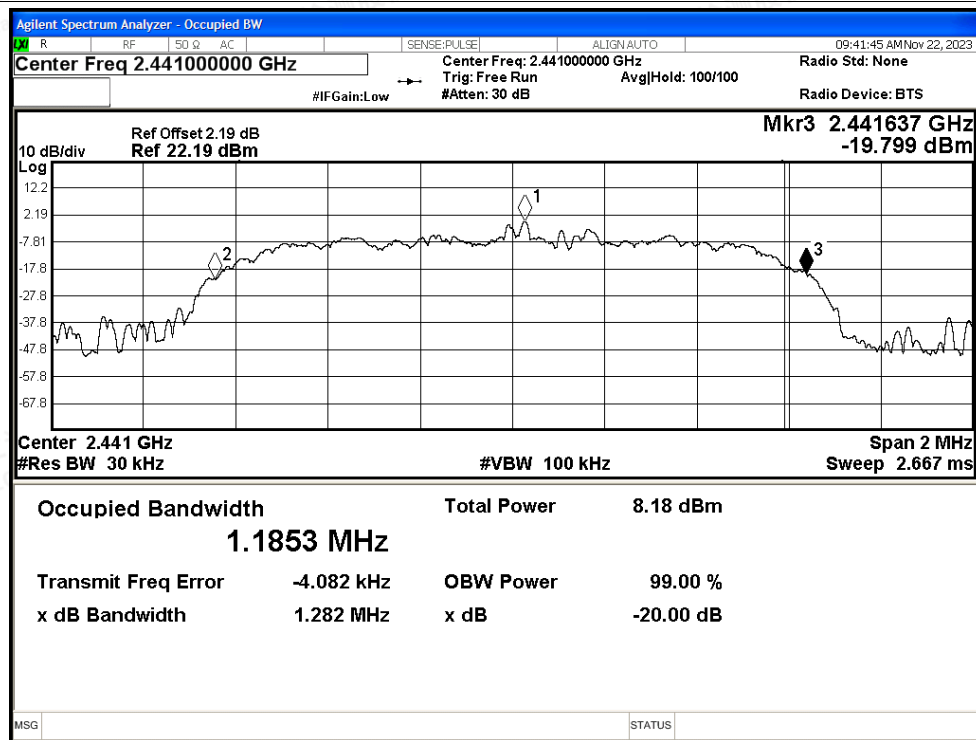
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## -20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



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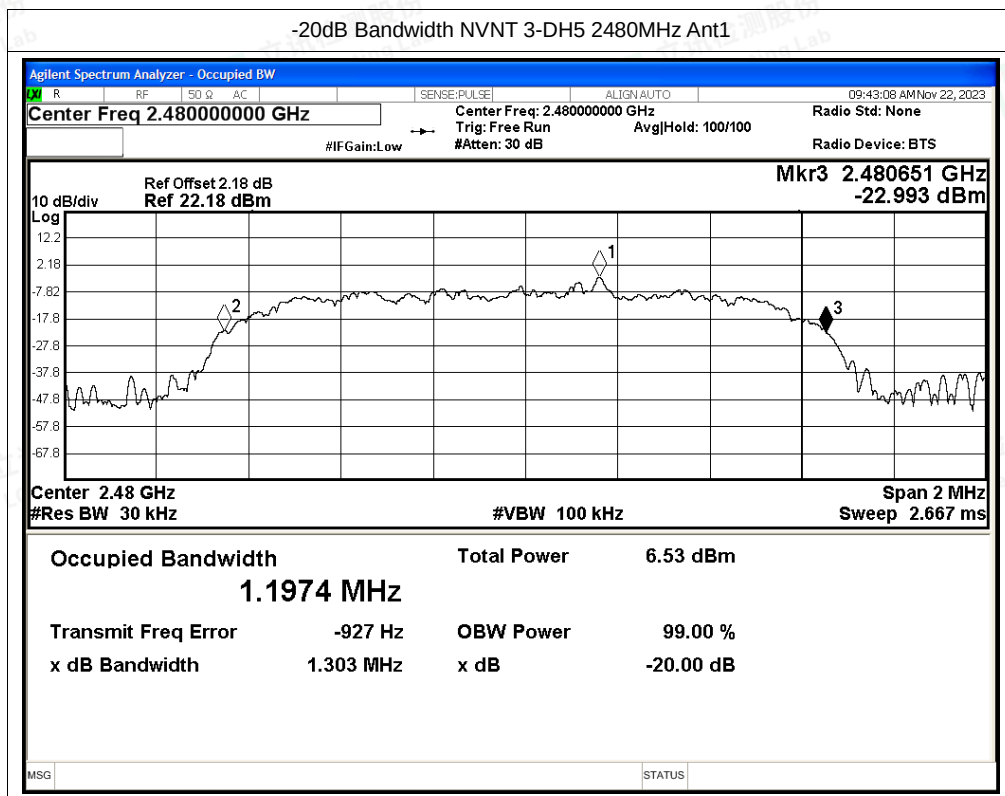


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## A.2 Maximum Peak Conducted Output Power

| Condition | Mode  | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|-------|-----------------|---------|-----------------------|-------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | -0.31                 | 21          | Pass    |
| NVNT      | 1-DH5 | 2441            | Ant1    | 2.28                  | 21          | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | 0.97                  | 21          | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | 1.6                   | 21          | Pass    |
| NVNT      | 2-DH5 | 2441            | Ant1    | 3.84                  | 21          | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | 2.39                  | 21          | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | 1.56                  | 21          | Pass    |
| NVNT      | 3-DH5 | 2441            | Ant1    | 3.82                  | 21          | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | 2.39                  | 21          | Pass    |

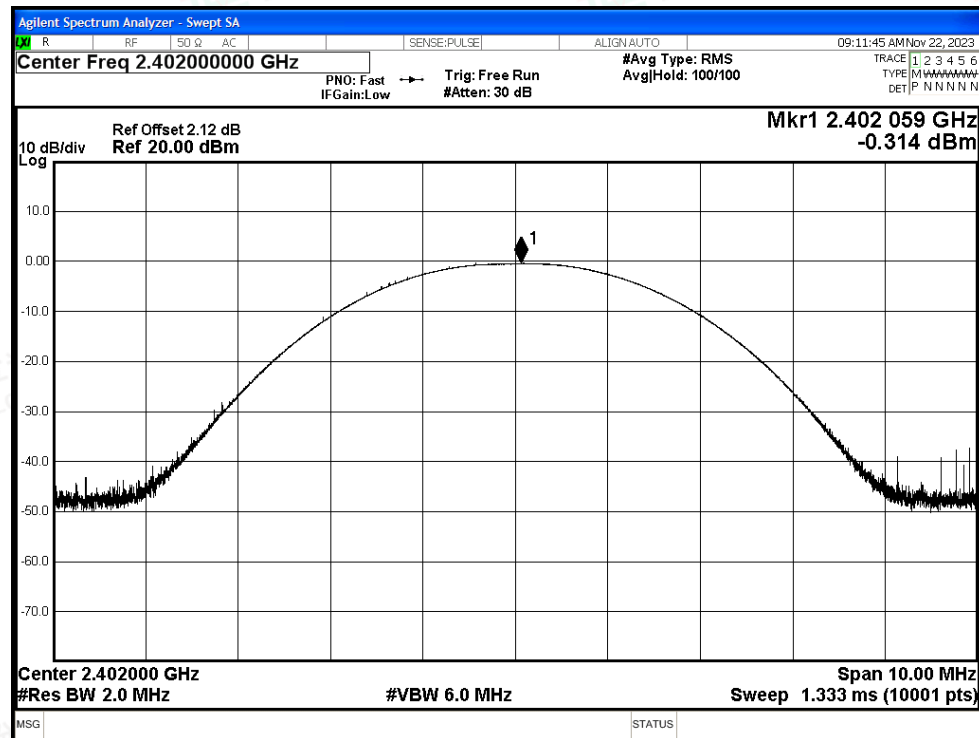




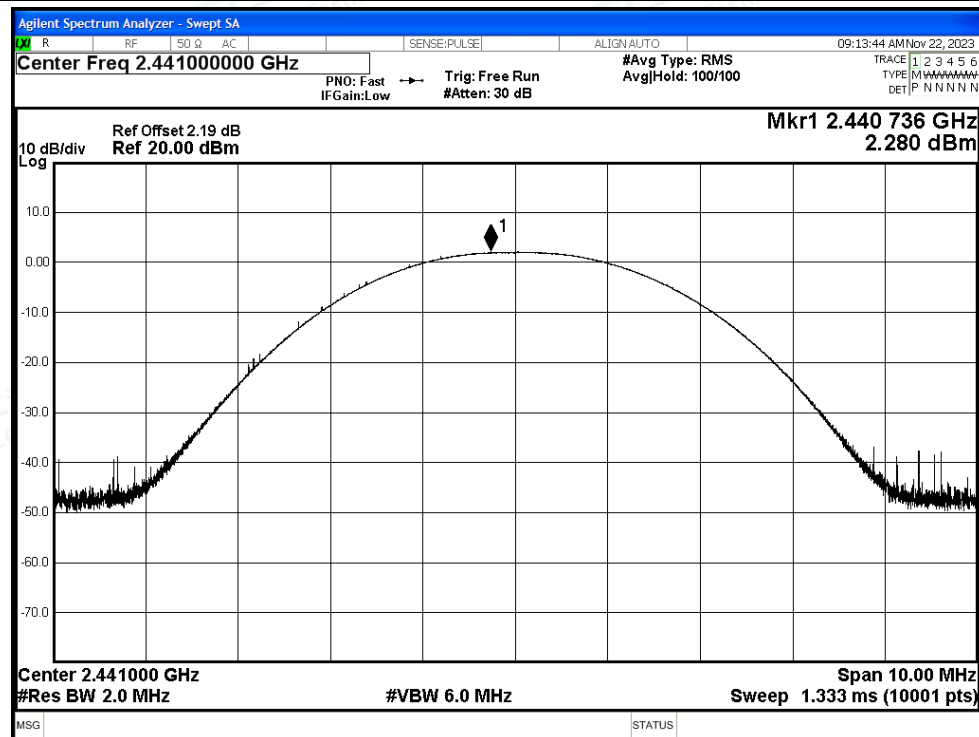


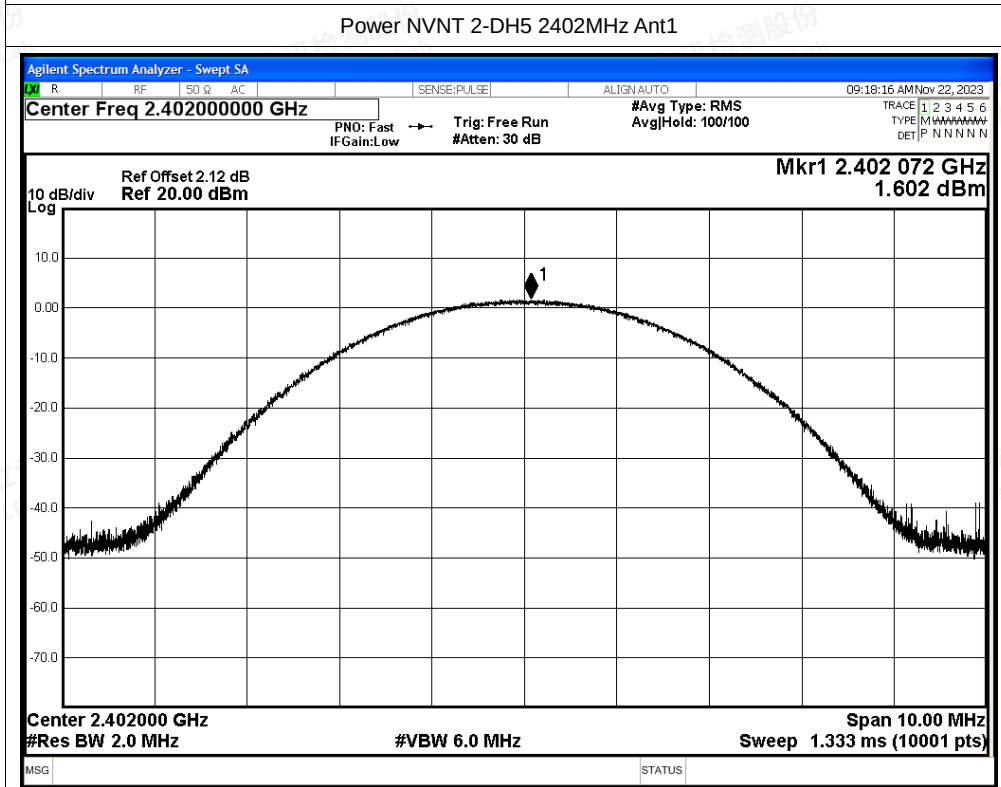
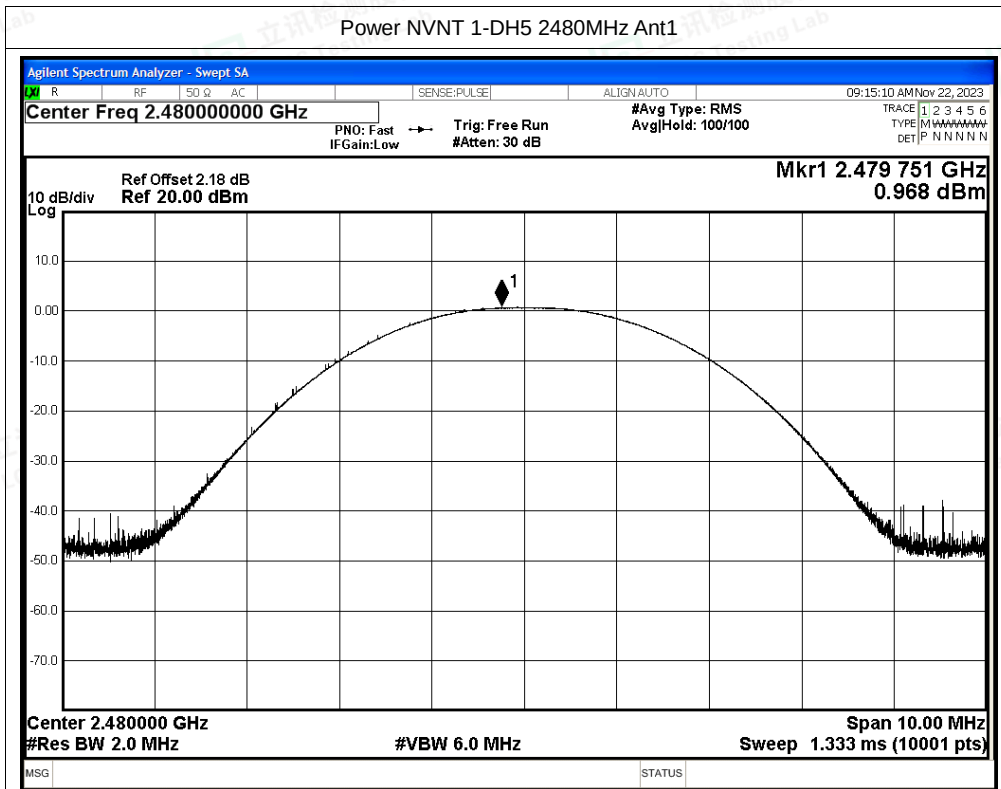
## Test Graphs

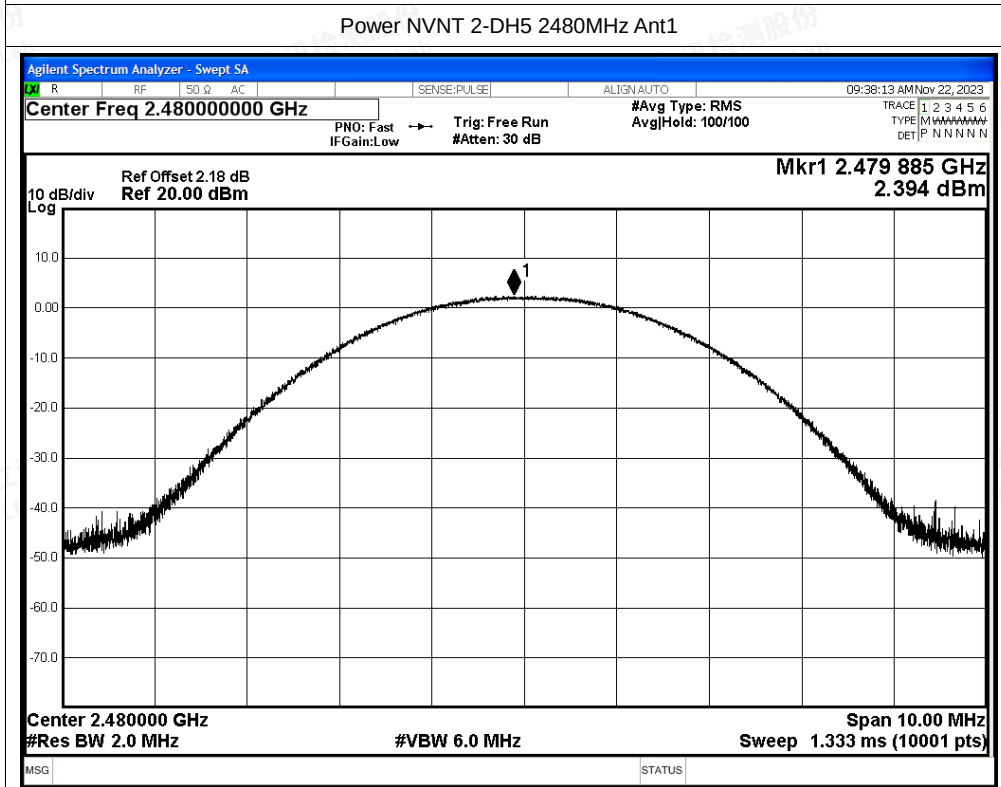
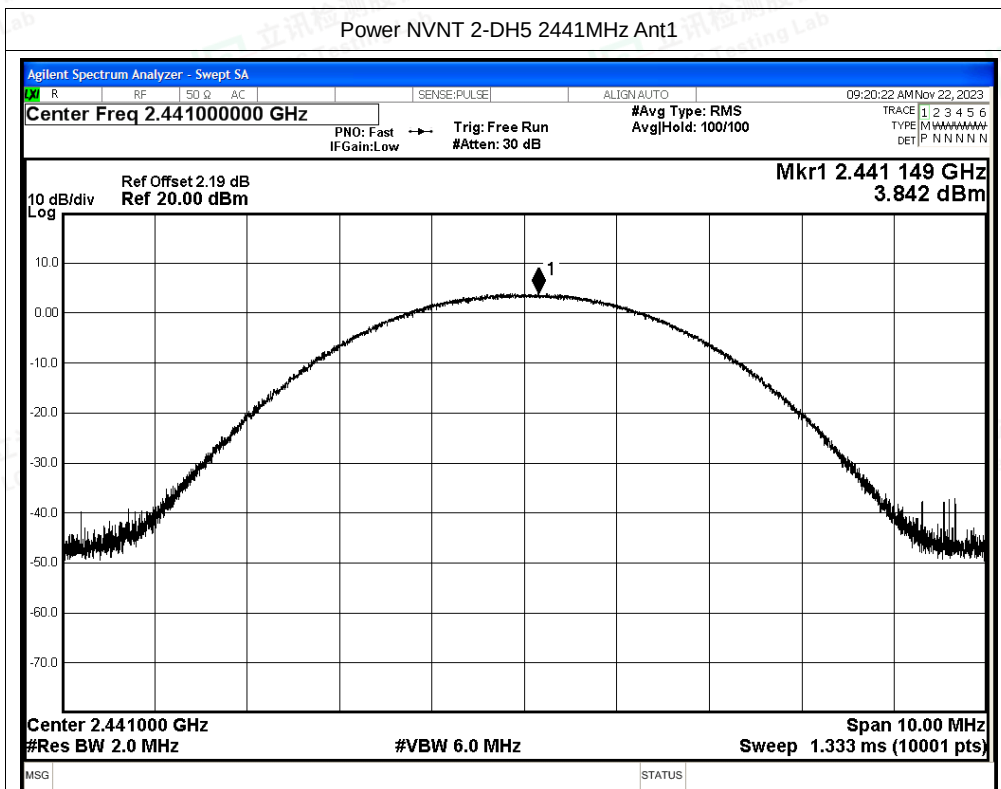
Power NVNT 1-DH5 2402MHz Ant1

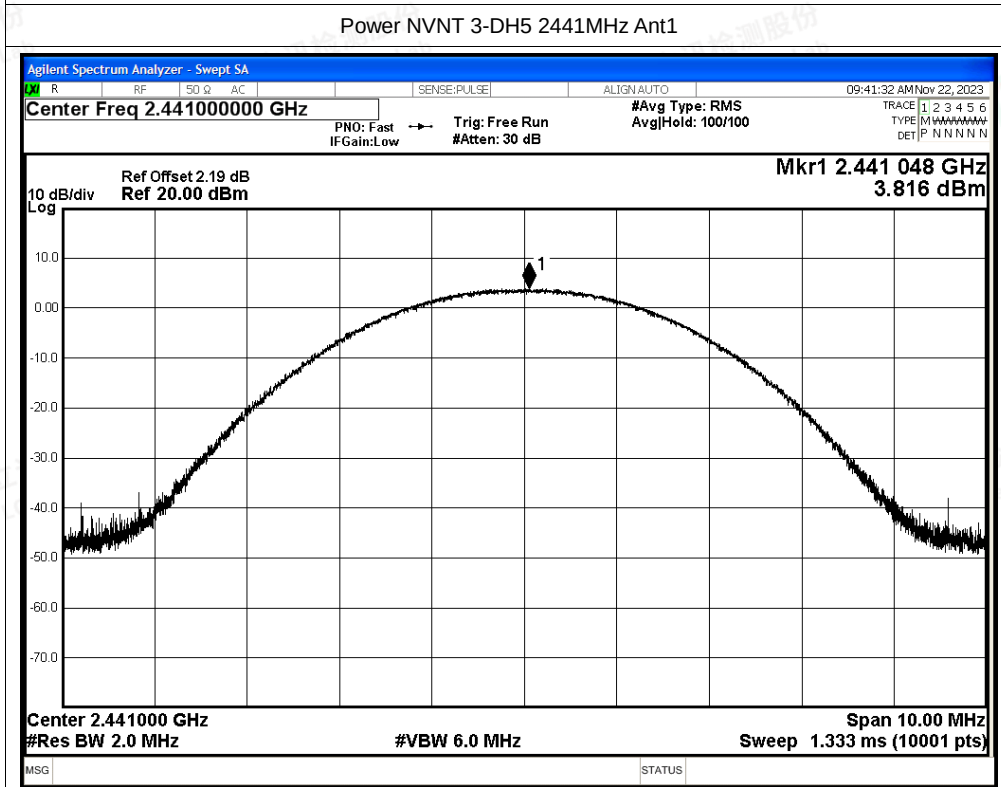
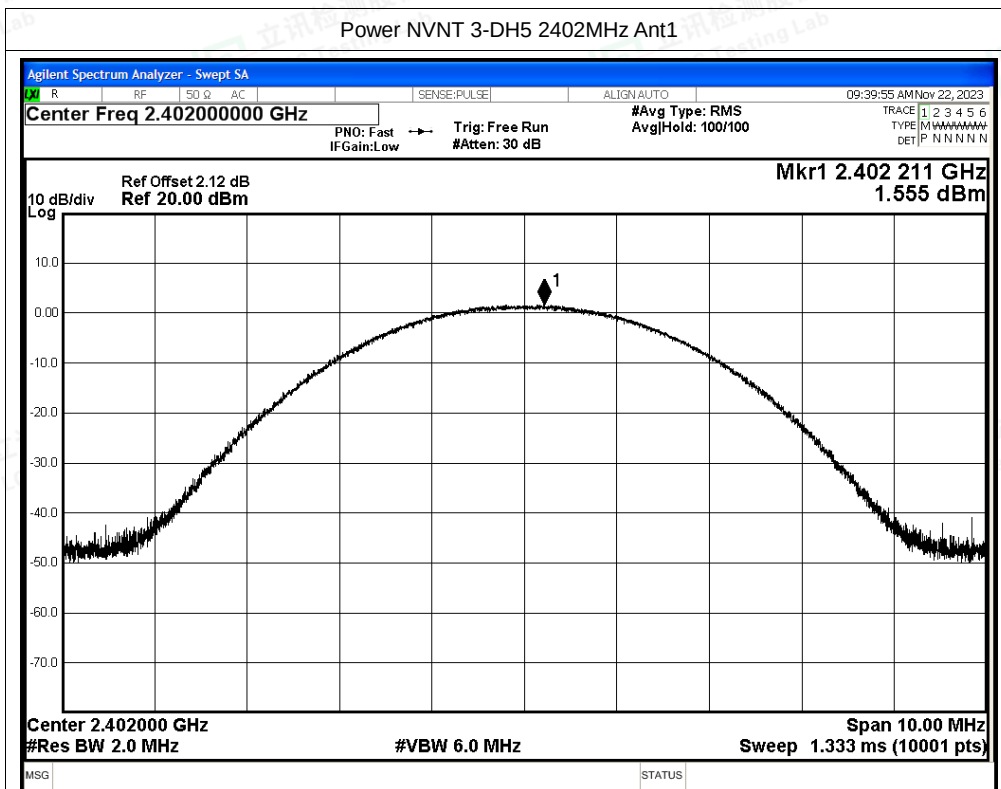


Power NVNT 1-DH5 2441MHz Ant1







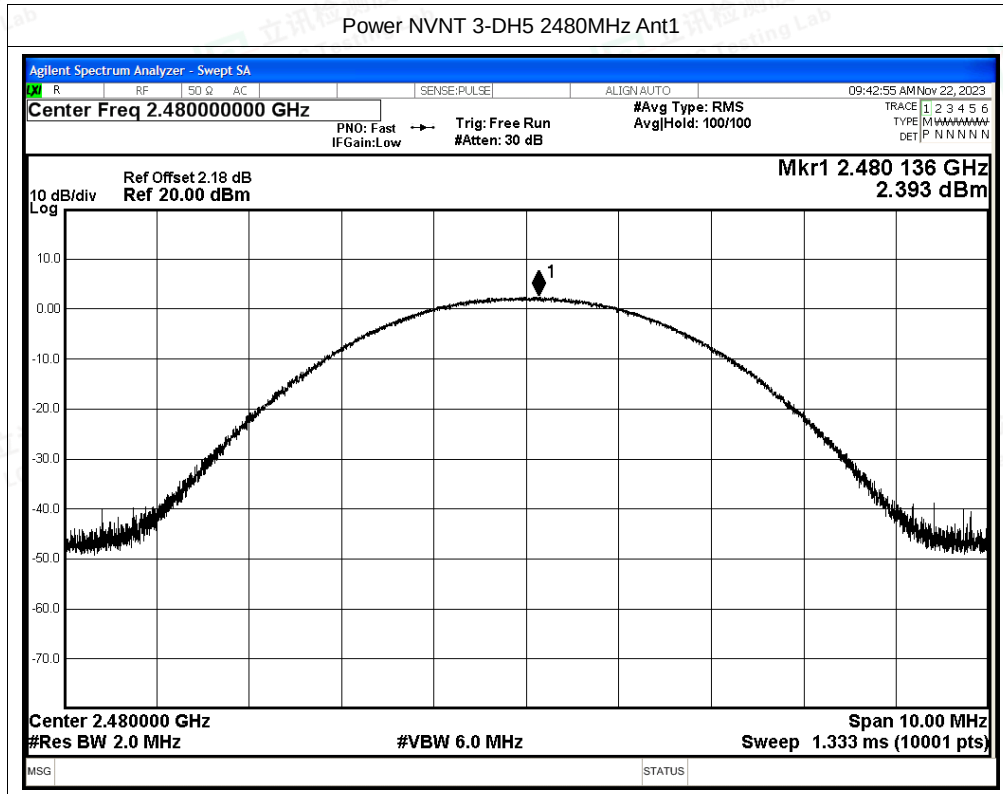


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### A.3 Carrier Frequencies Separation

| Condition | Mode  | Antenna | Hopping Freq1 (MHz) | Hopping Freq2 (MHz) | HFS (MHz) | Limit (MHz) | Verdict |
|-----------|-------|---------|---------------------|---------------------|-----------|-------------|---------|
| NVNT      | 1-DH5 | Ant1    | 2401.84             | 2403.164            | 1.324     | 0.649       | Pass    |
| NVNT      | 2-DH5 | Ant1    | 2402.026            | 2403.03             | 1.004     | 0.871       | Pass    |
| NVNT      | 3-DH5 | Ant1    | 2402.032            | 2403.03             | 0.998     | 0.869       | Pass    |

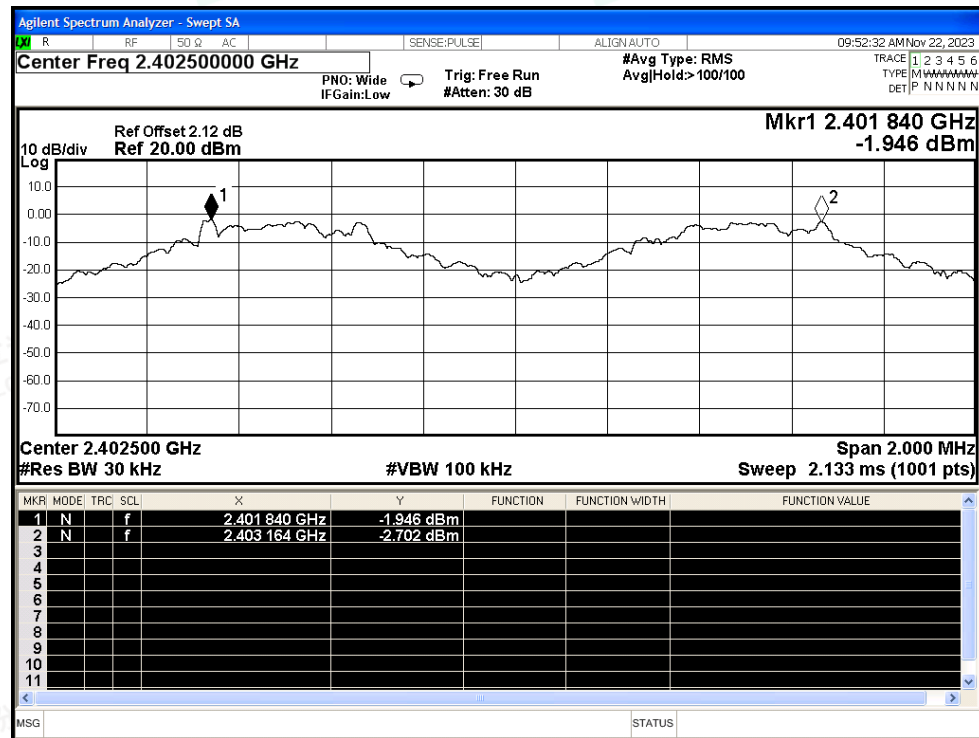


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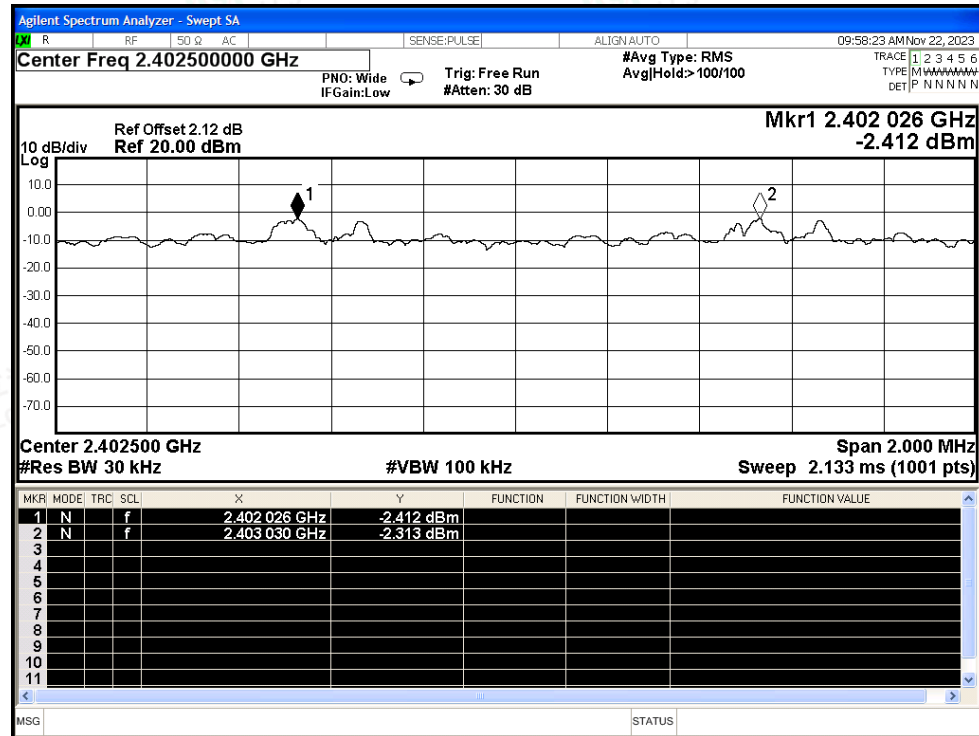


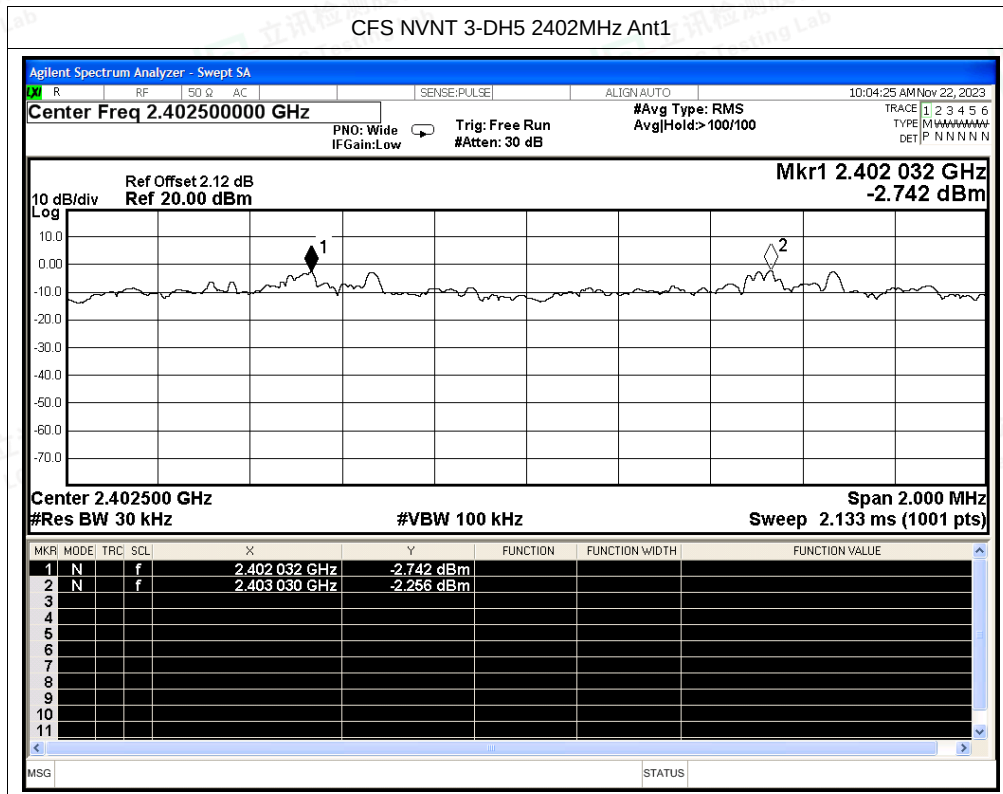
## Test Graphs

## CFS NVNT 1-DH5 2402MHz Ant1



## CFS NVNT 2-DH5 2402MHz Ant1









## A.4 Dwell Time

| Condition | Mode  | Frequency<br>(MHz) | Antenna | Pulse Time<br>(ms) | Total Dwell Time<br>(ms) | Burst<br>Count | Period Time<br>(ms) | Limit<br>(ms) | Verdict |
|-----------|-------|--------------------|---------|--------------------|--------------------------|----------------|---------------------|---------------|---------|
| NVNT      | 1-DH5 | 2402               | Ant1    | 0.499              | 53.892                   | 108            | 31600               | 400           | Pass    |
| NVNT      | 2-DH5 | 2402               | Ant1    | 2.898              | 318.78                   | 110            | 31600               | 400           | Pass    |
| NVNT      | 3-DH5 | 2402               | Ant1    | 2.898              | 307.188                  | 106            | 31600               | 400           | Pass    |

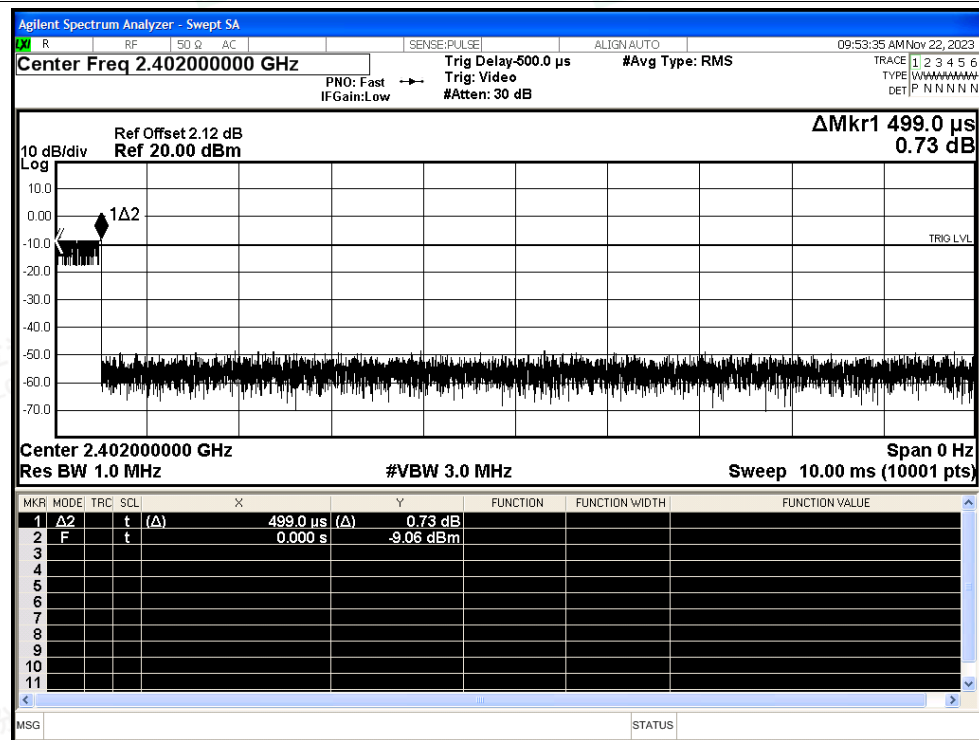


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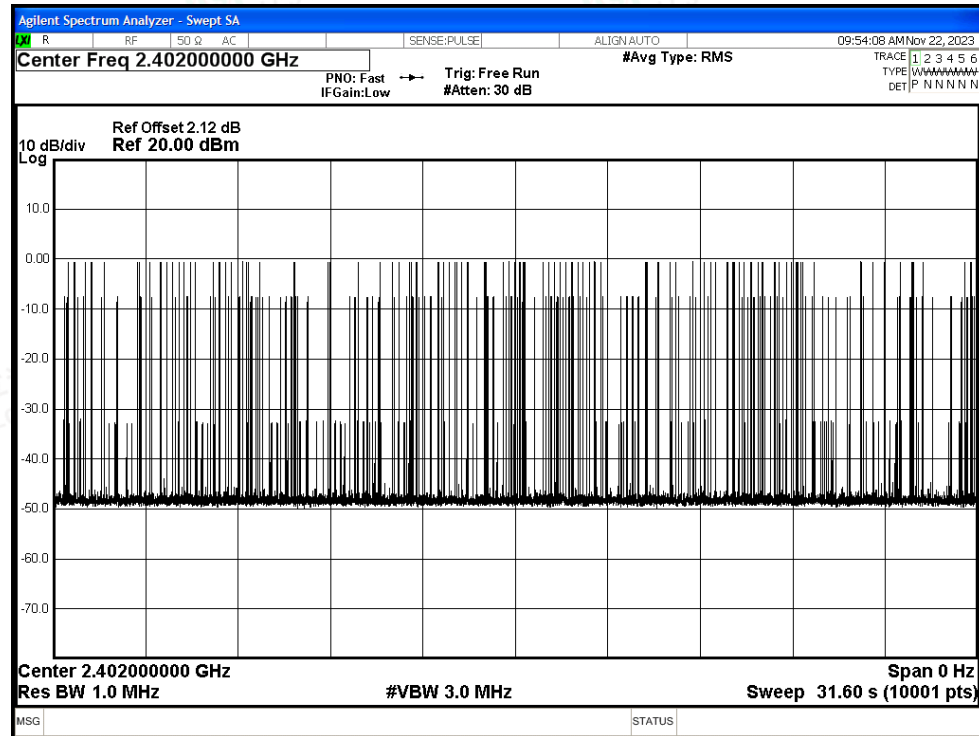


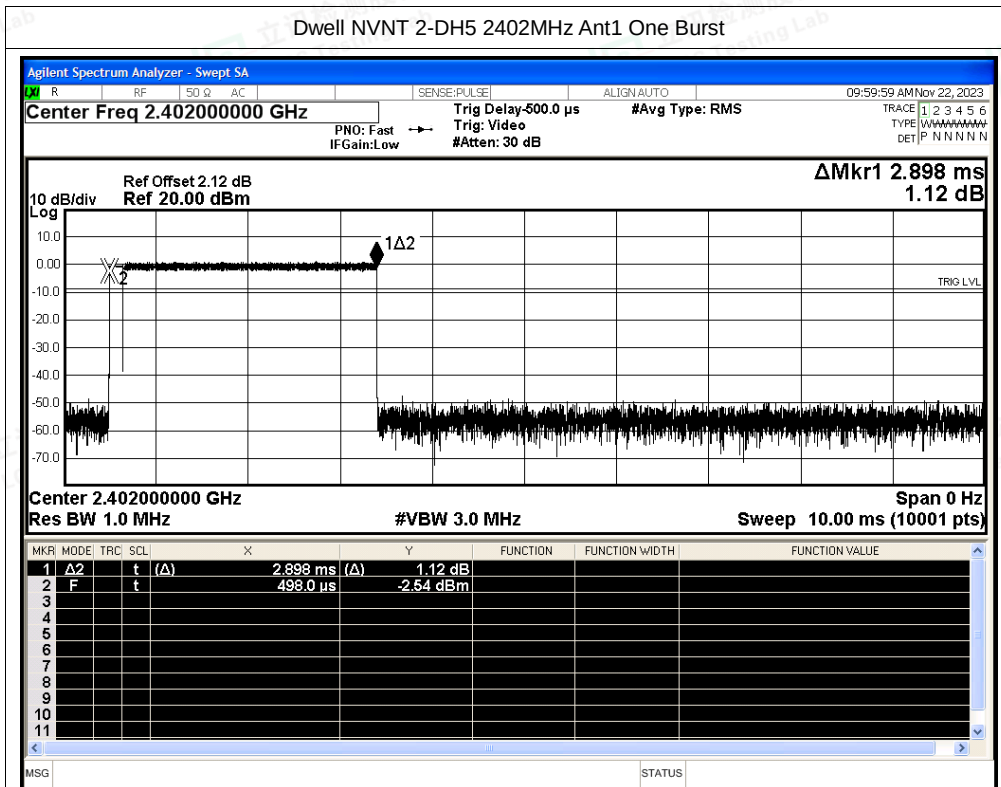
## Test Graphs

## Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

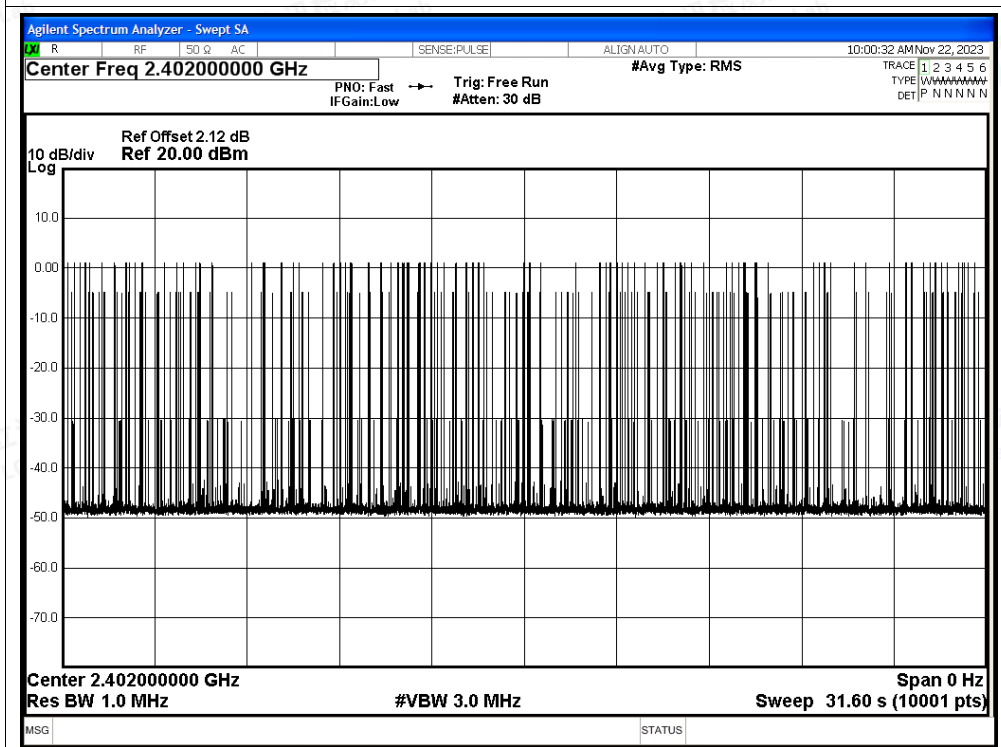


## Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated





Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

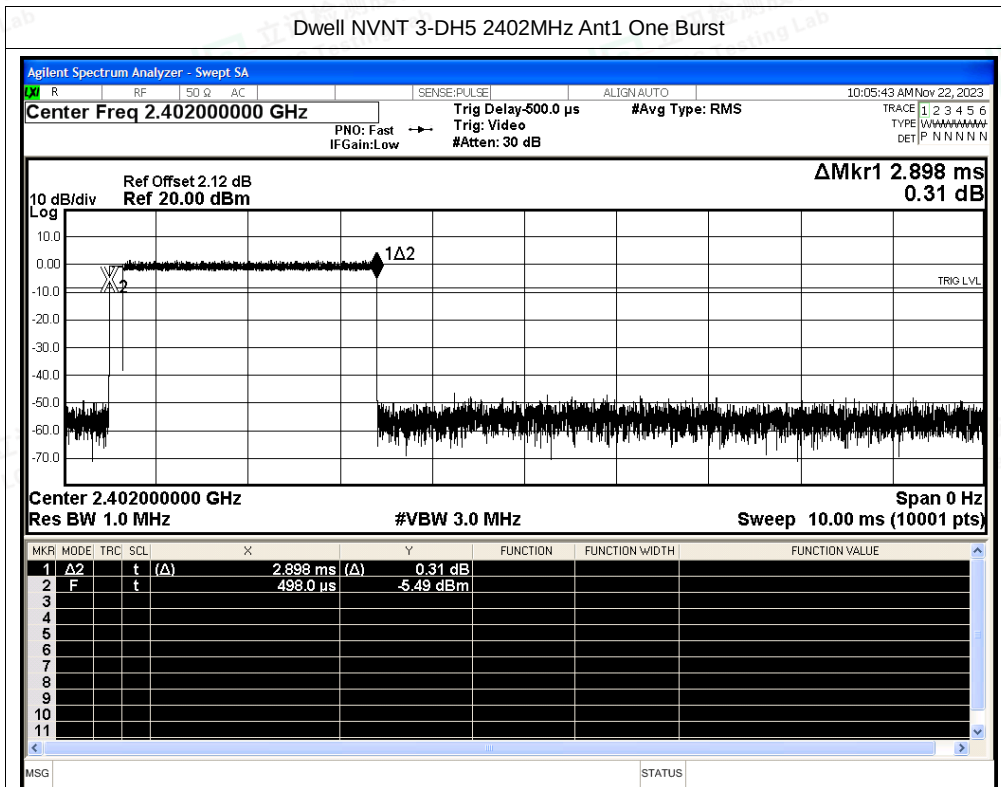


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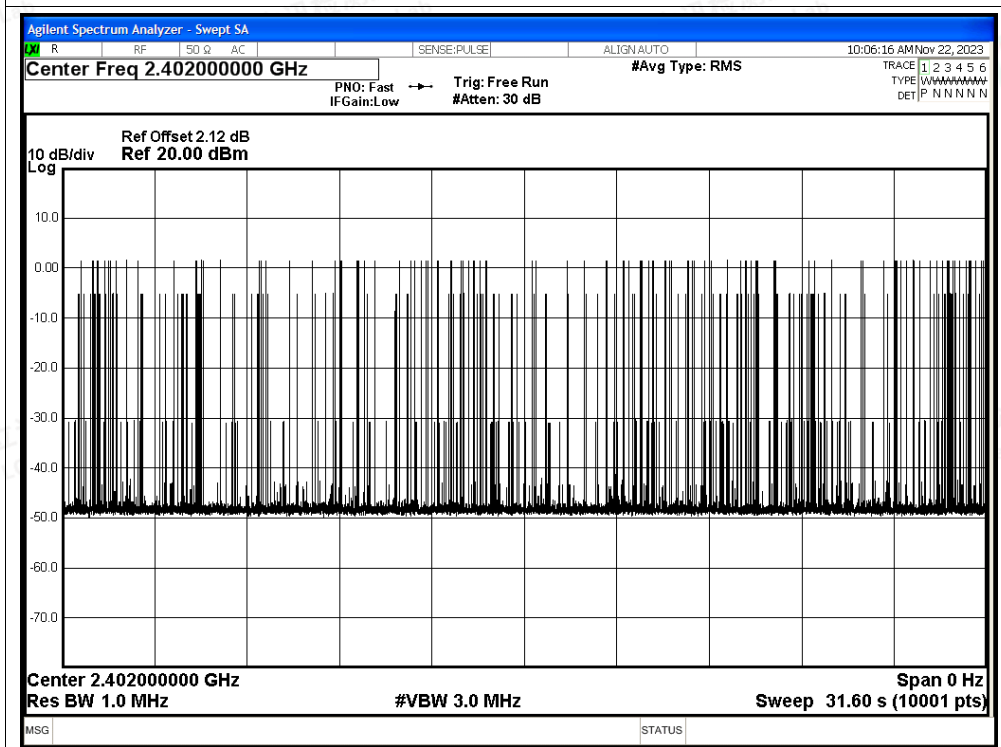
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Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated



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## A.5 Number of Hopping Channel

| Condition | Mode  | Antenna | Hopping Number | Limit | Verdict |
|-----------|-------|---------|----------------|-------|---------|
| NVNT      | 1-DH5 | Ant1    | 79             | 15    | Pass    |
| NVNT      | 2-DH5 | Ant1    | 79             | 15    | Pass    |
| NVNT      | 3-DH5 | Ant1    | 79             | 15    | Pass    |

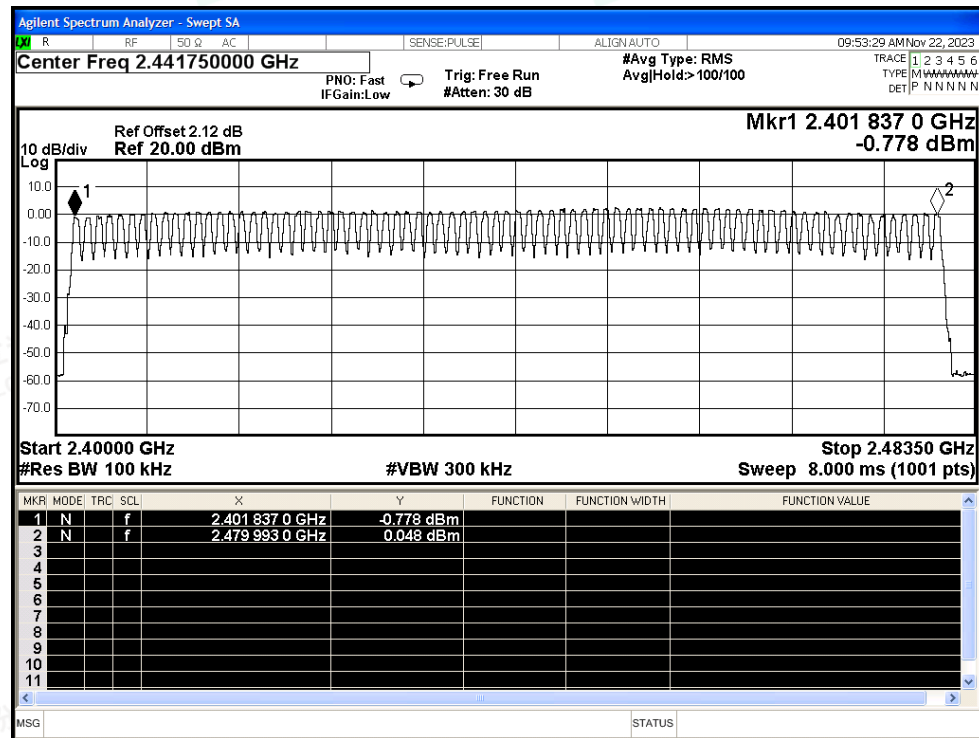


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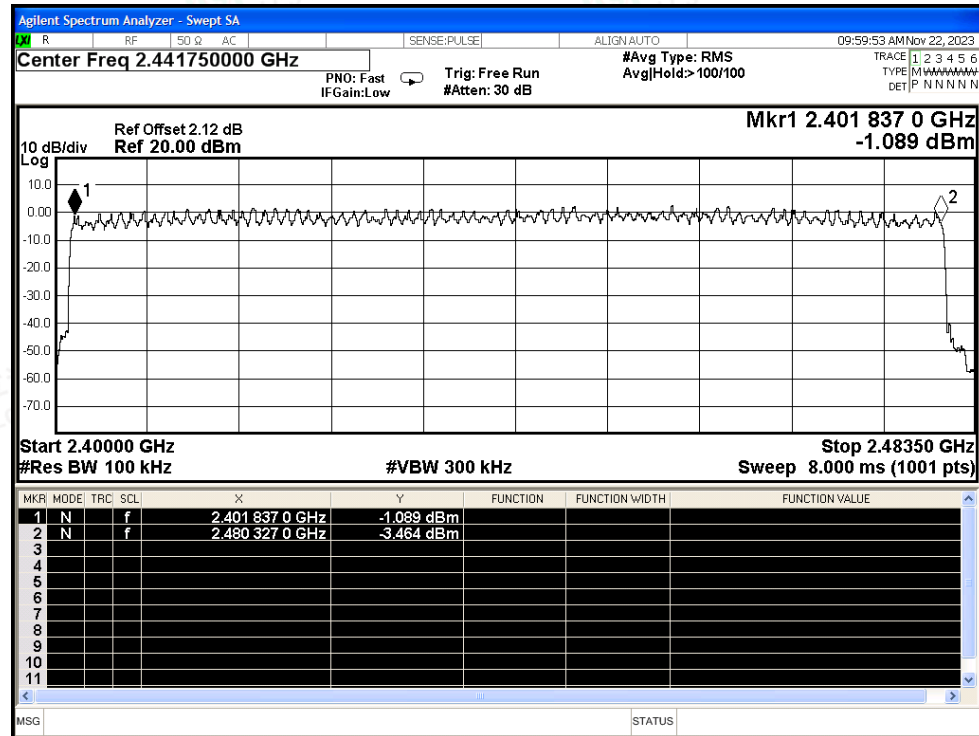


## Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1

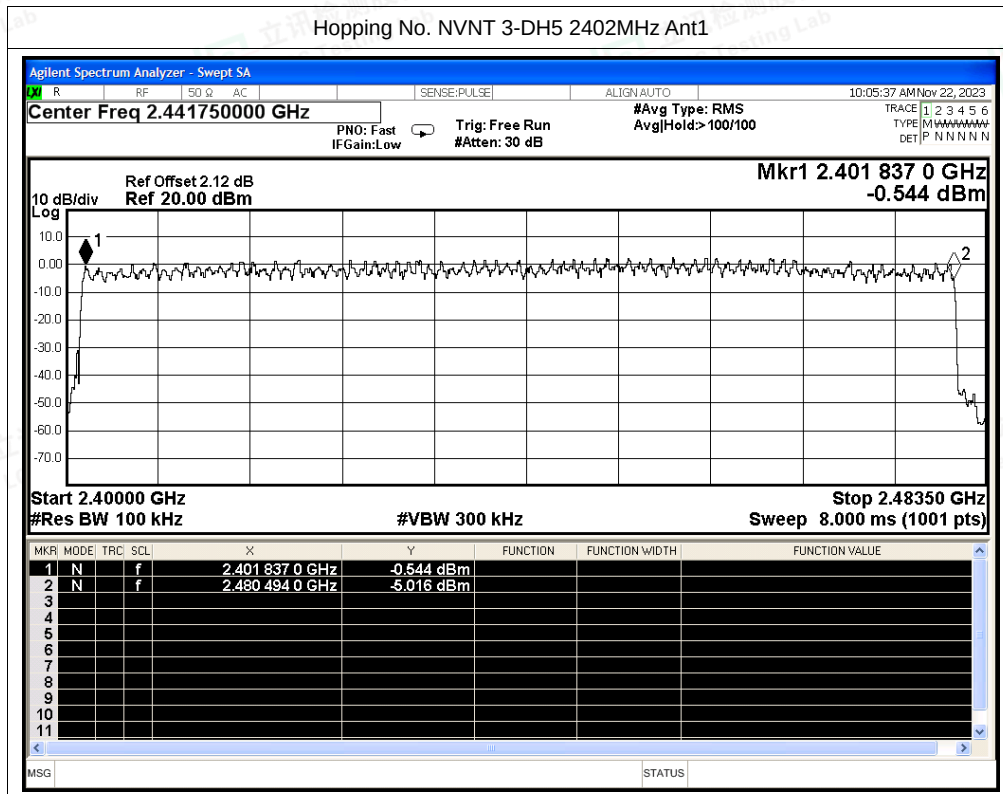


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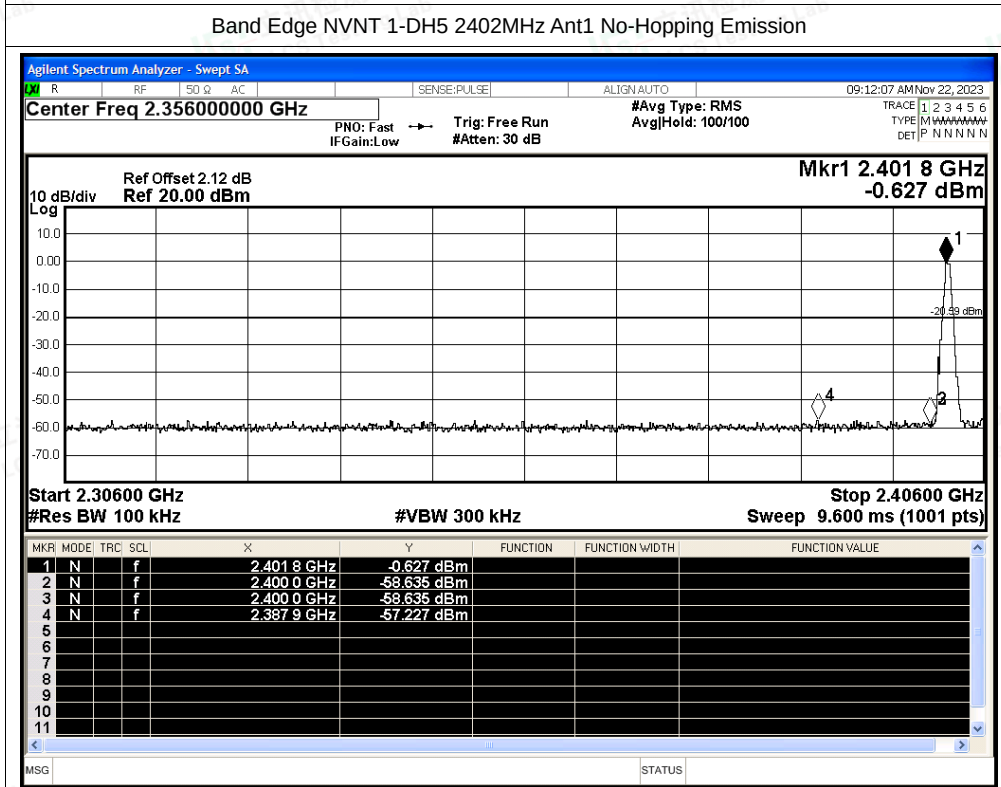
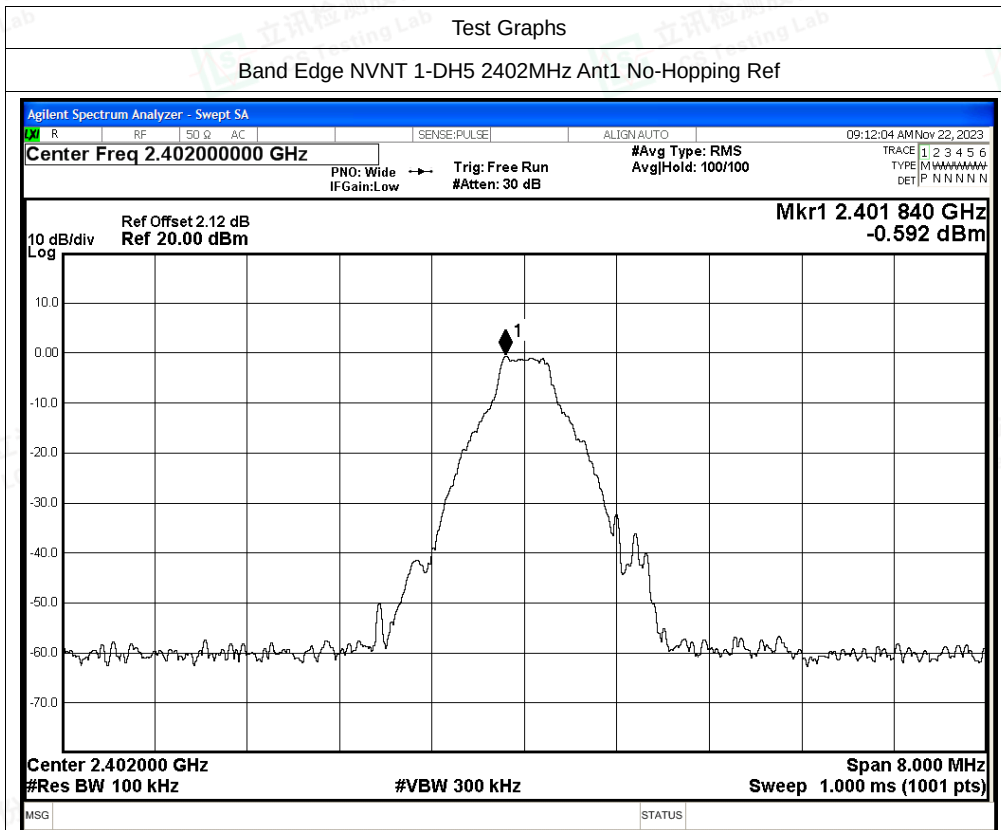


## A.6 Band Edge

| Condition | Mode  | Frequency (MHz) | Antenna | Hopping Mode | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|-------|-----------------|---------|--------------|-----------------|-------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | No-Hopping   | -56.64          | -20         | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | No-Hopping   | -56.97          | -20         | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | No-Hopping   | -51.71          | -20         | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | No-Hopping   | -56.35          | -20         | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | No-Hopping   | -52.47          | -20         | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | No-Hopping   | -54.89          | -20         | Pass    |





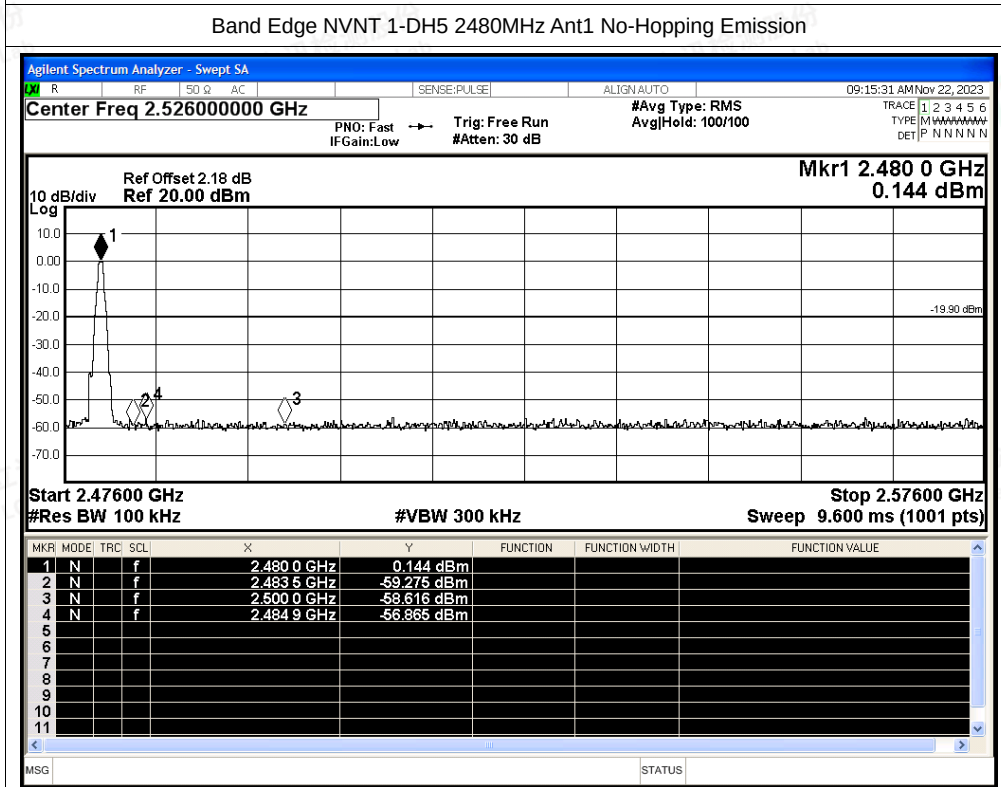
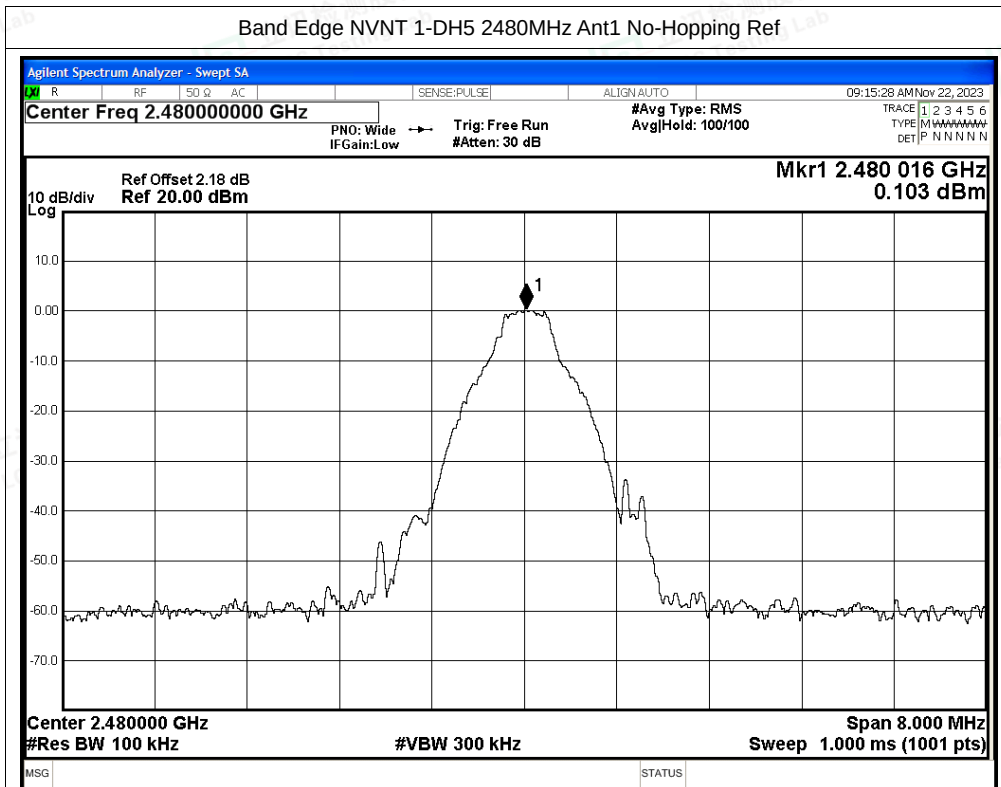


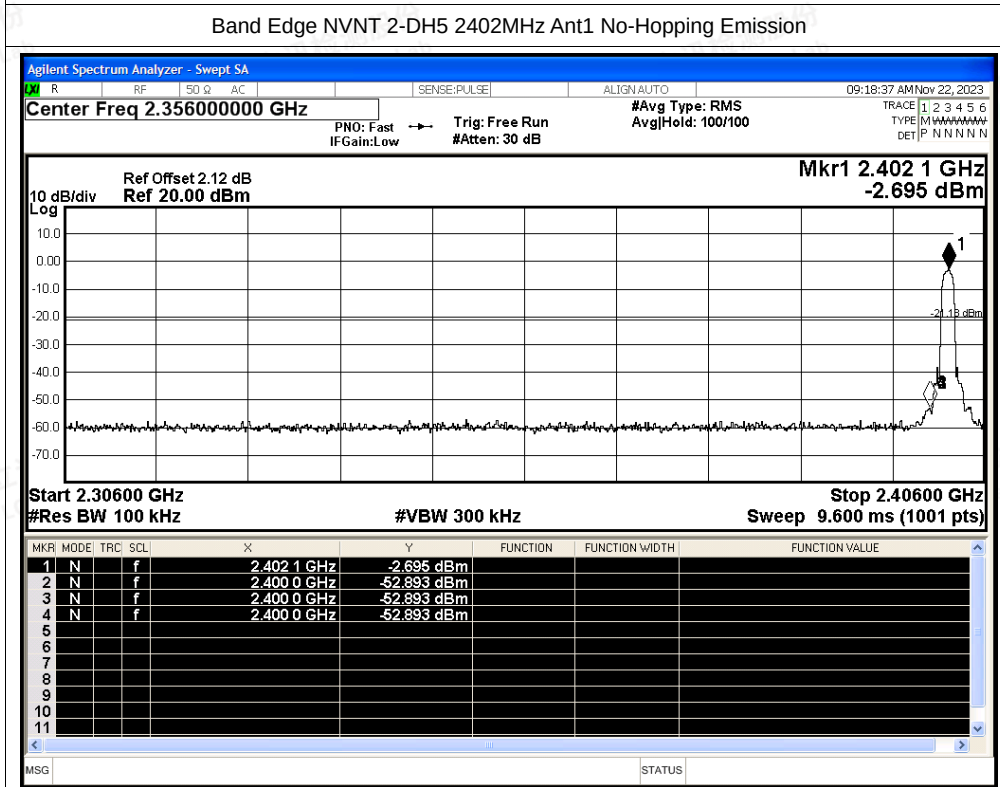
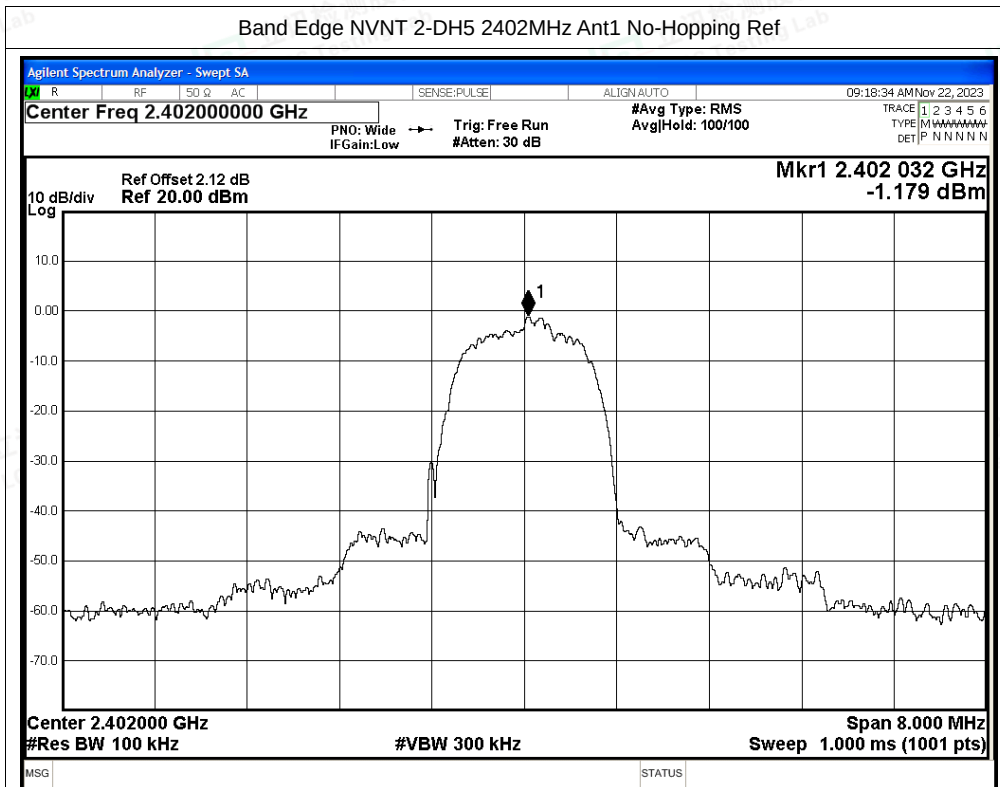
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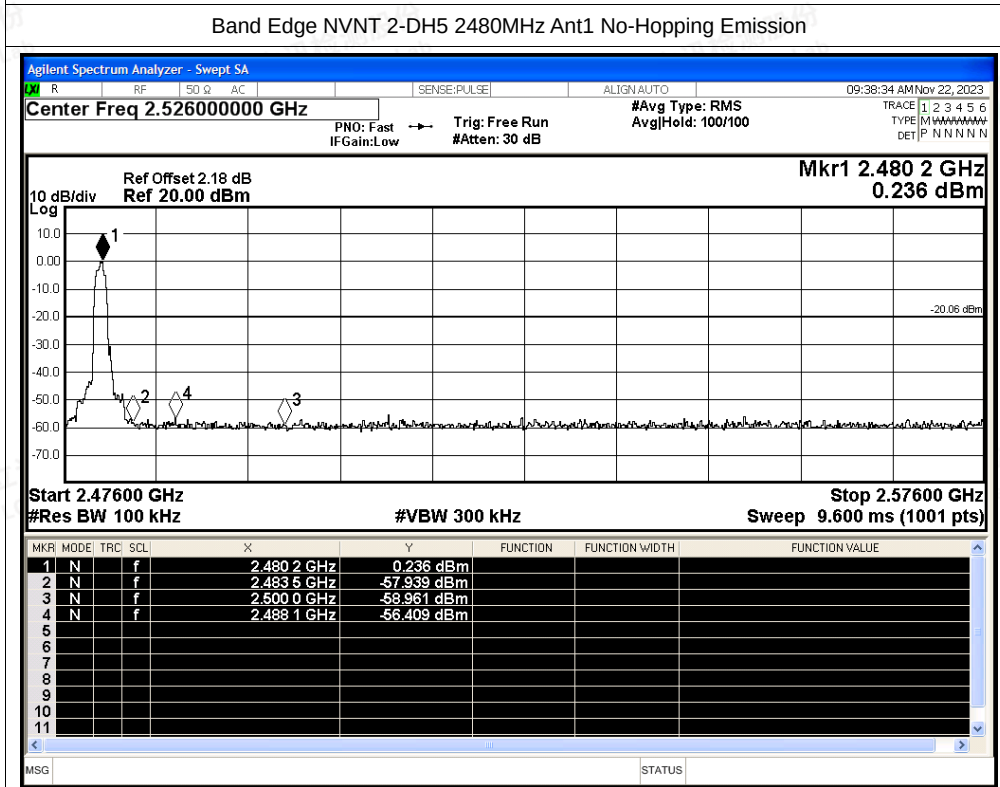
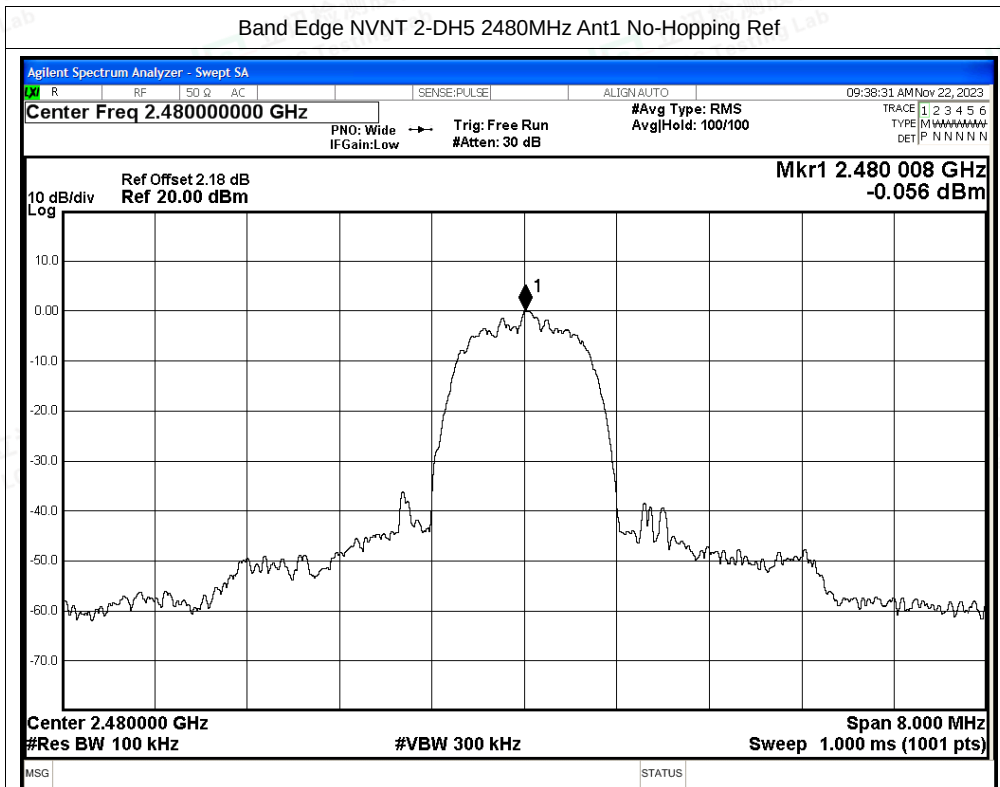
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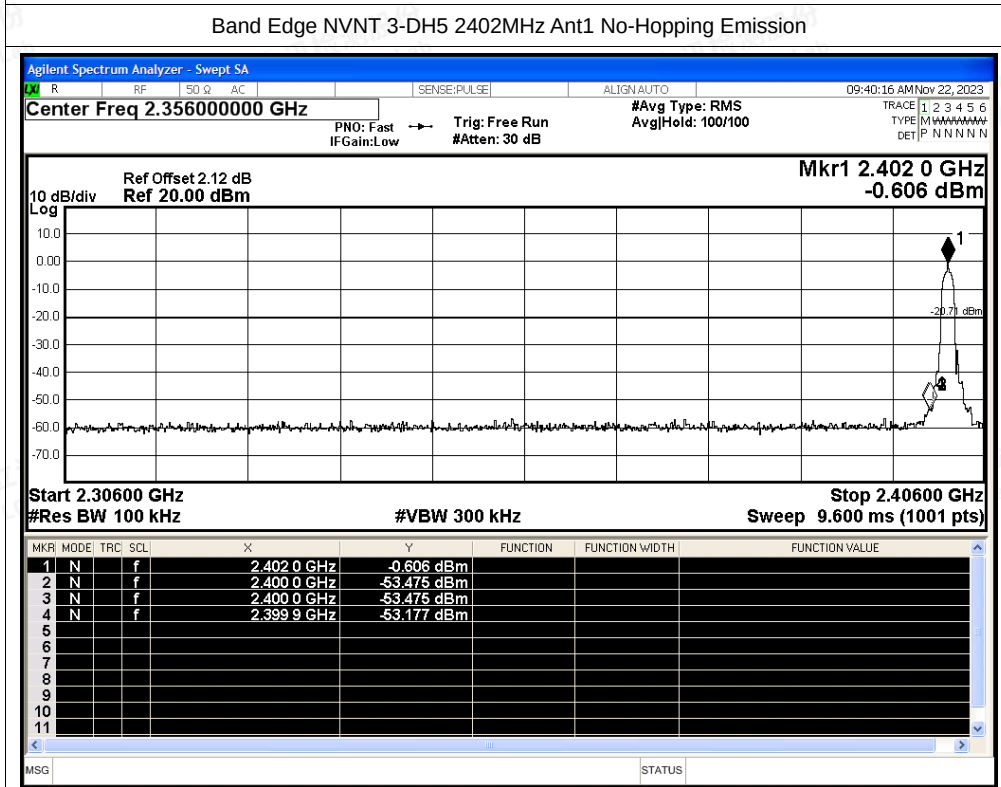
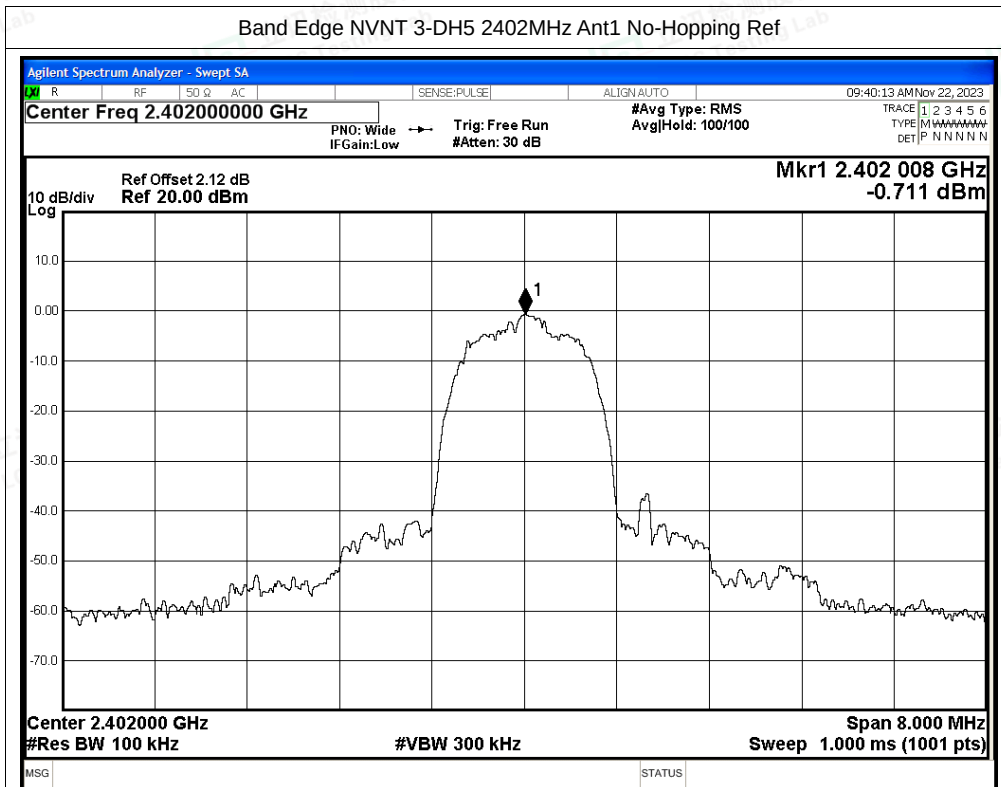


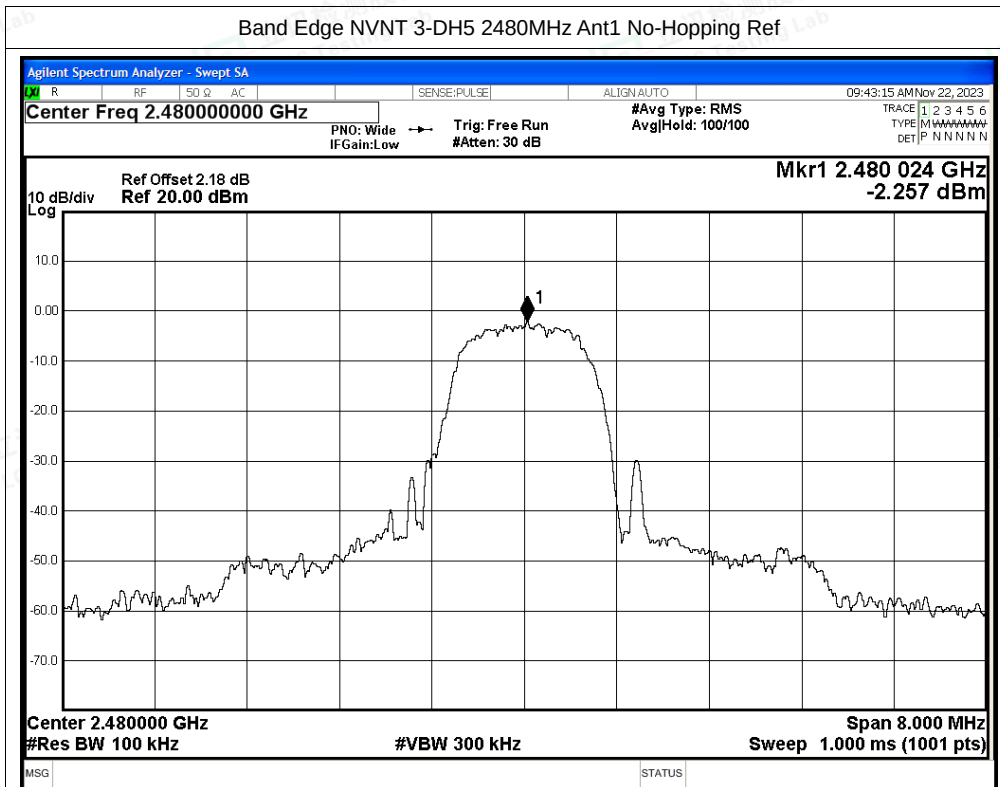
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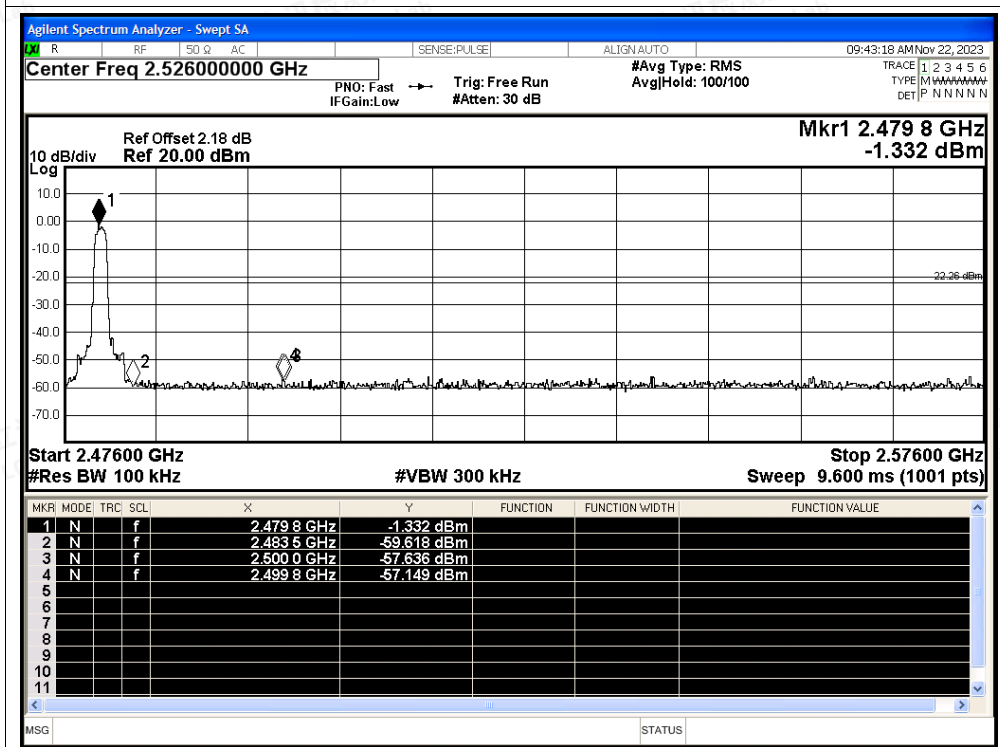
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Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission



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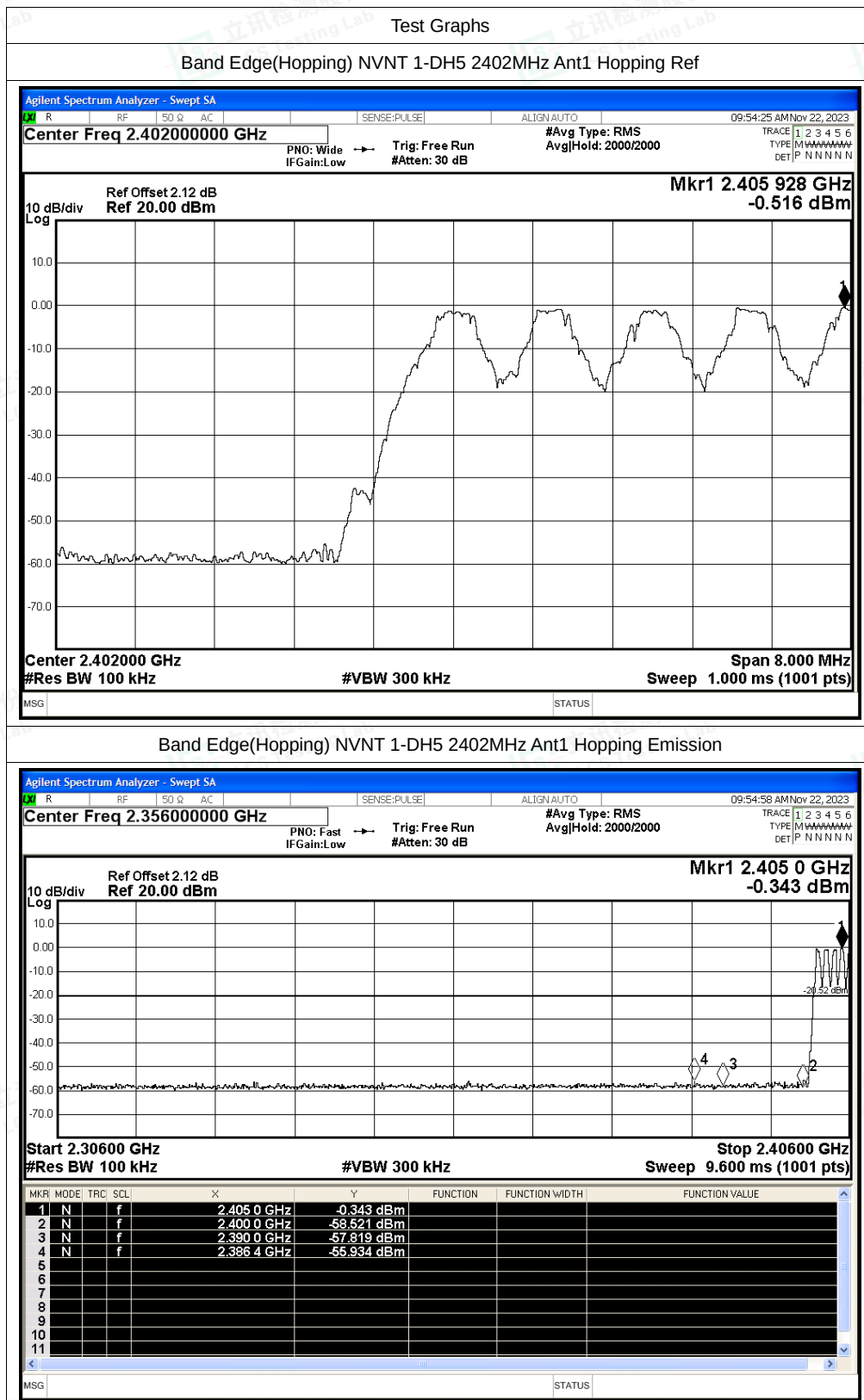
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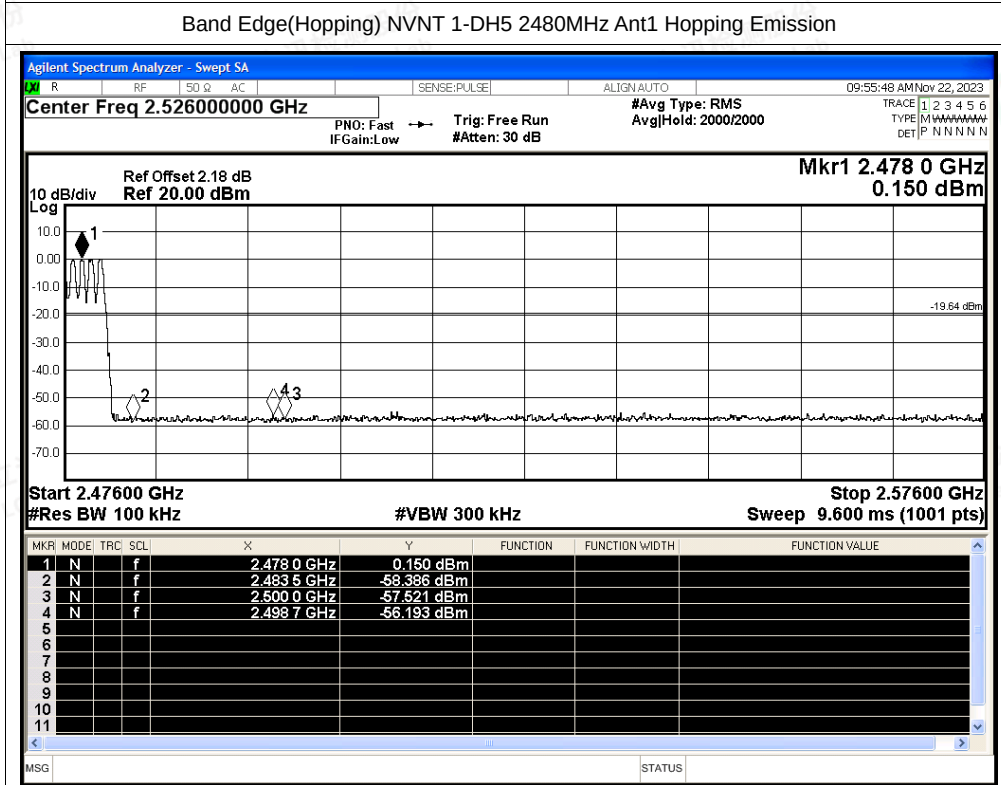
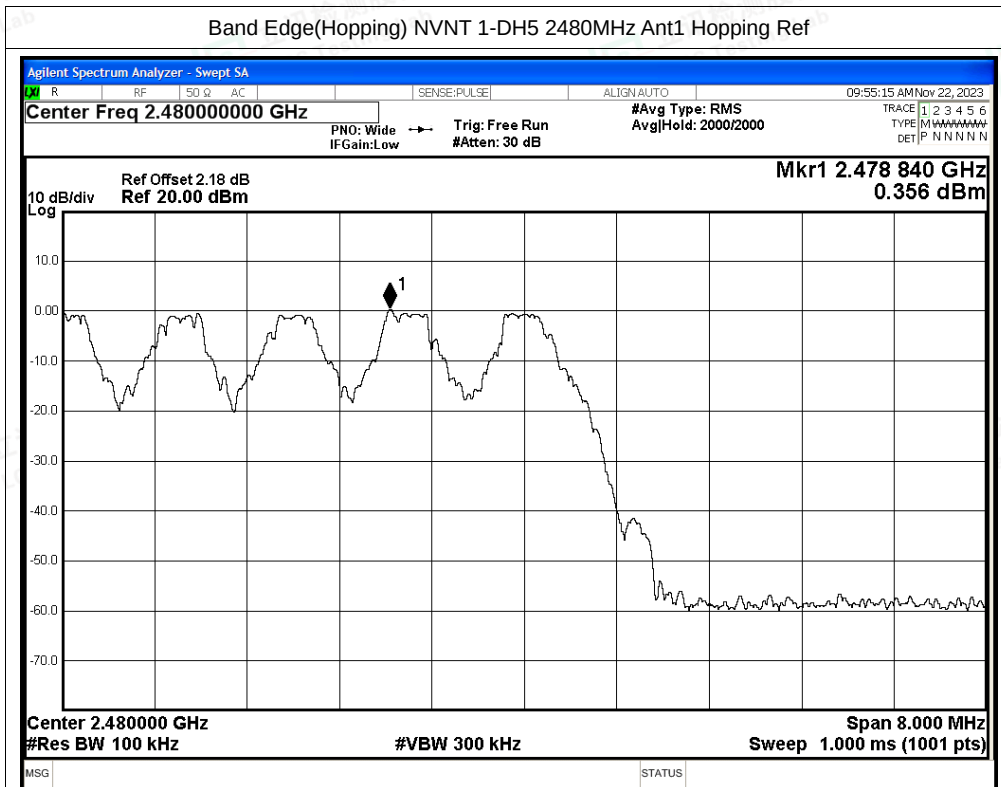
## Band Edge(Hopping)

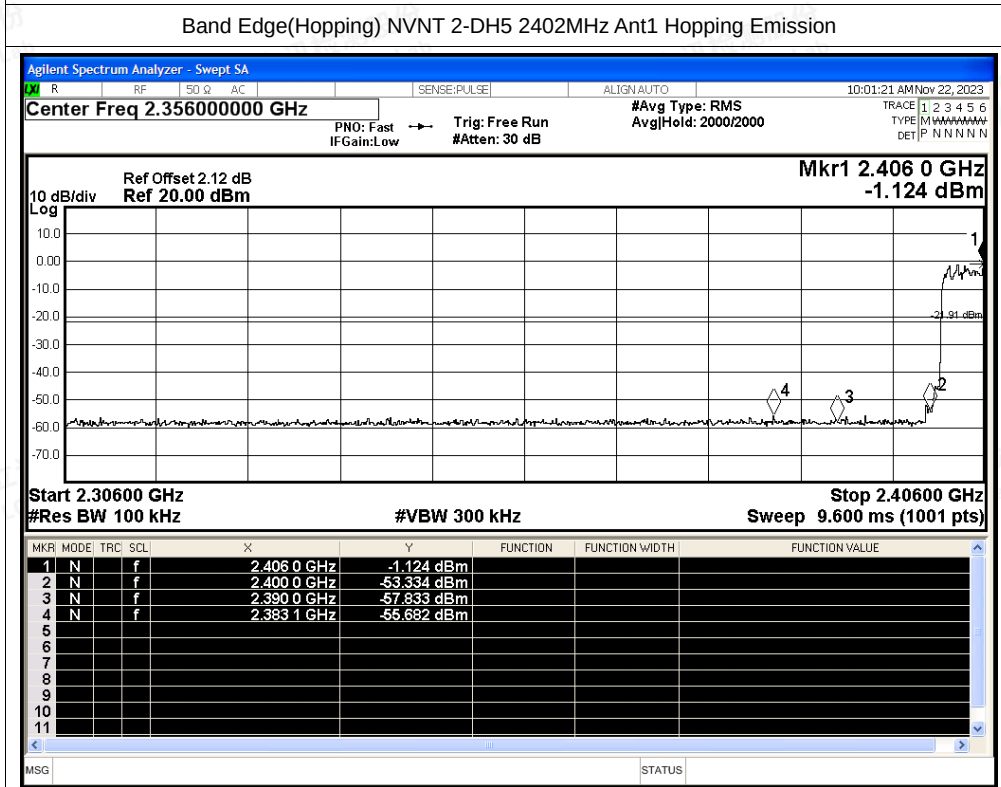
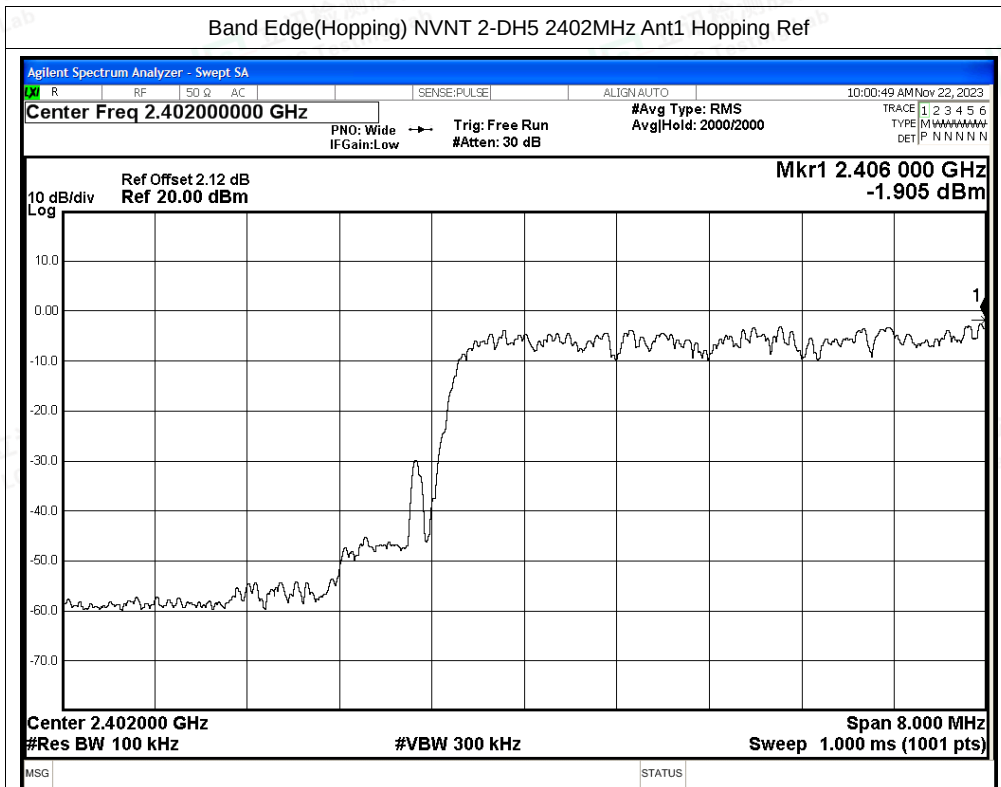
| Condition | Mode  | Frequency (MHz) | Antenna | Hopping Mode | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|-------|-----------------|---------|--------------|-----------------|-------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | Hopping      | -55.42          | -20         | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | Hopping      | -56.55          | -20         | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | Hopping      | -53.78          | -20         | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | Hopping      | -55.96          | -20         | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | Hopping      | -54.79          | -20         | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | Hopping      | -55.47          | -20         | Pass    |









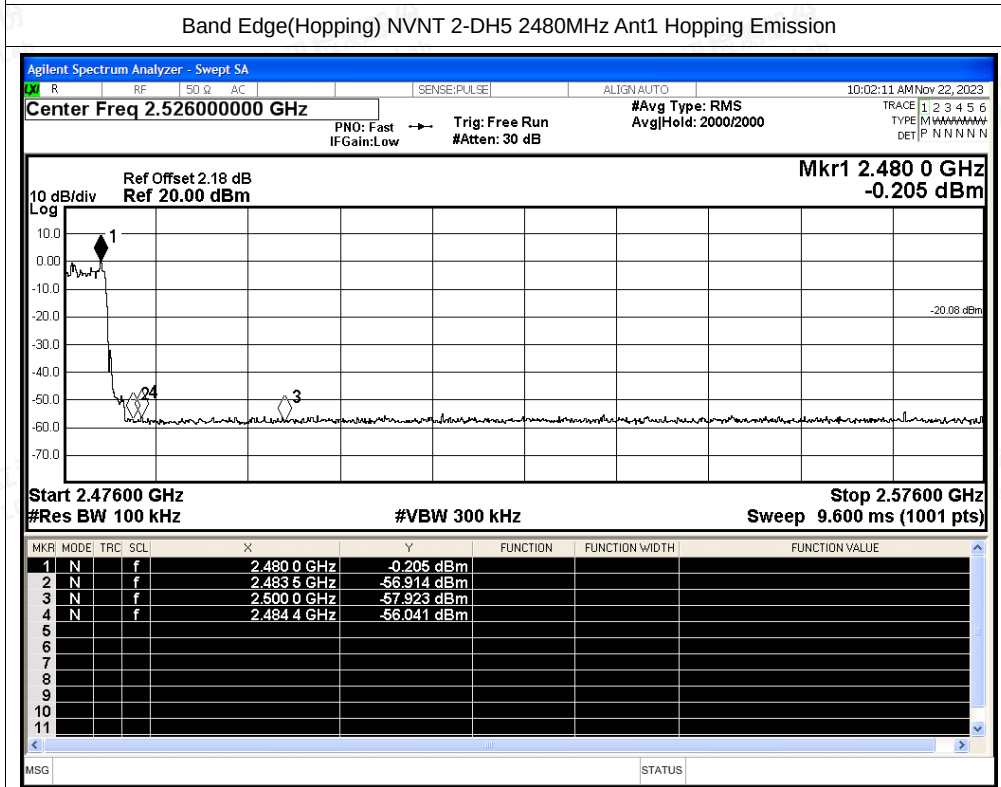
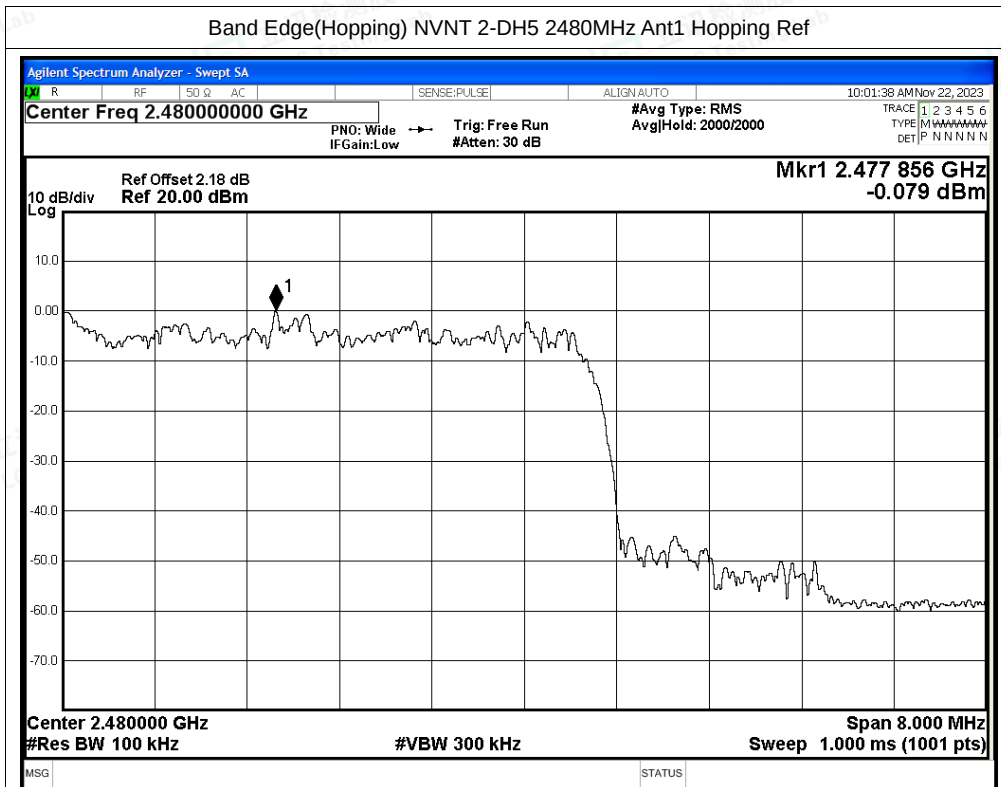


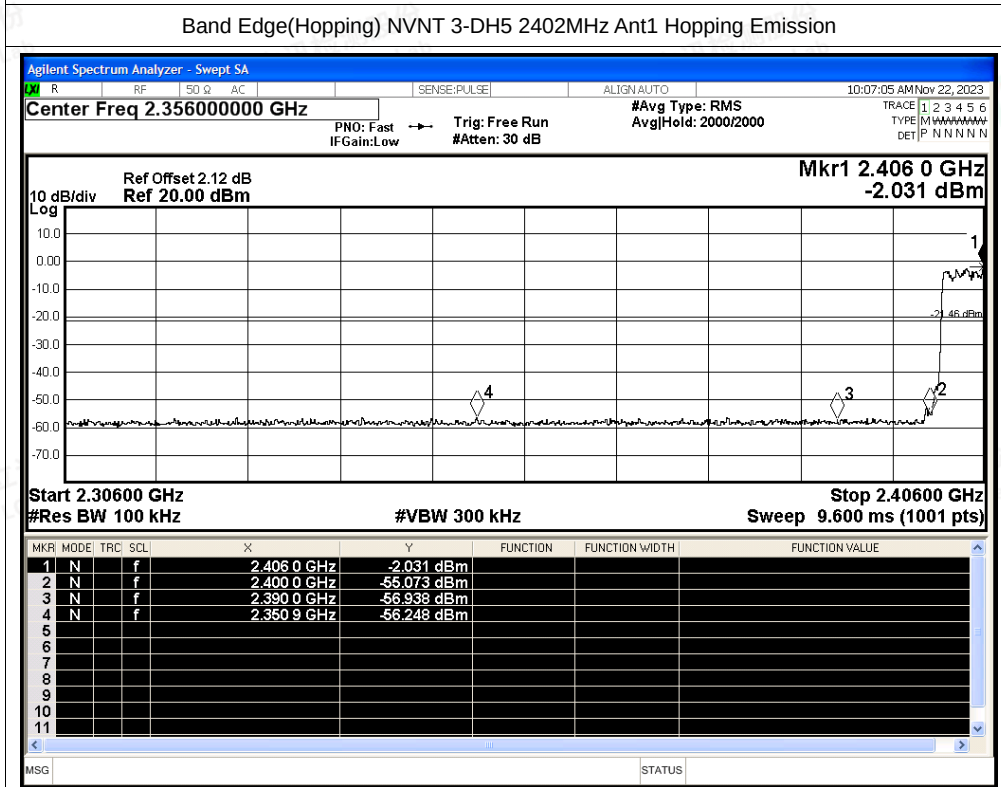
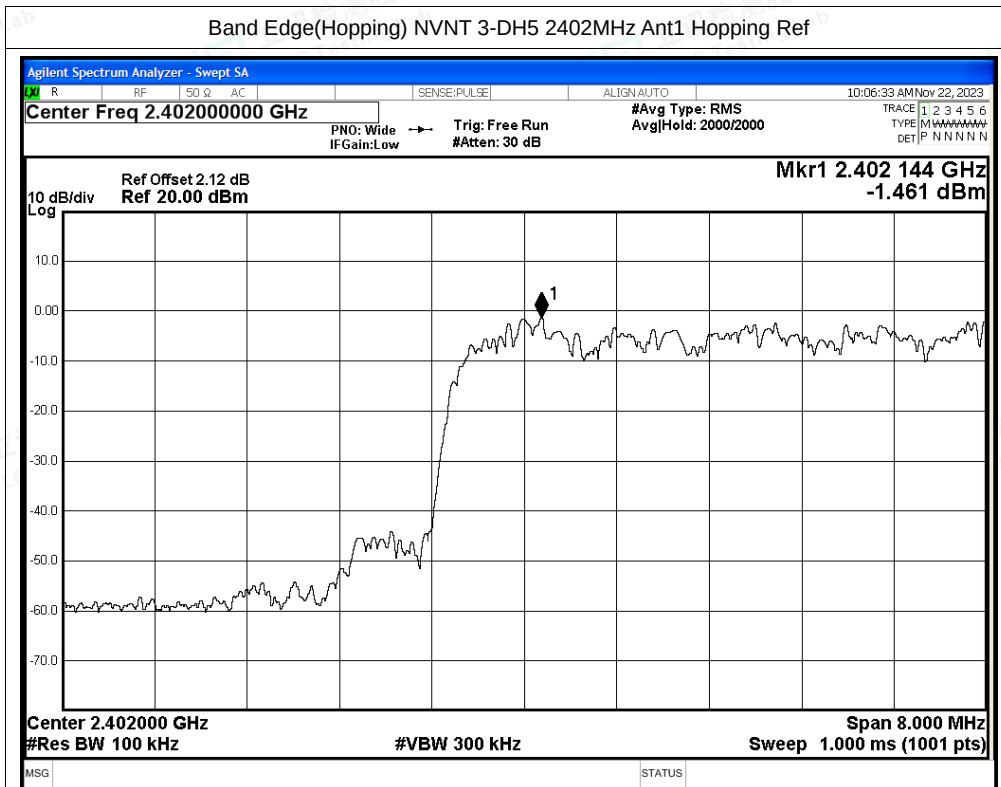
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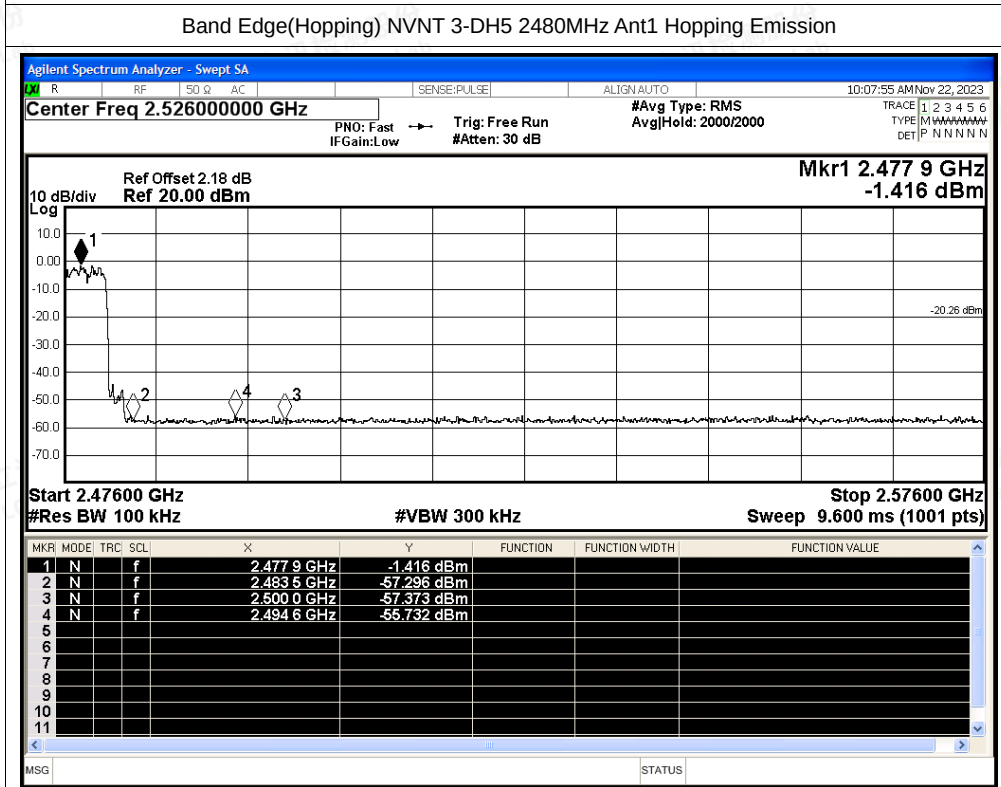
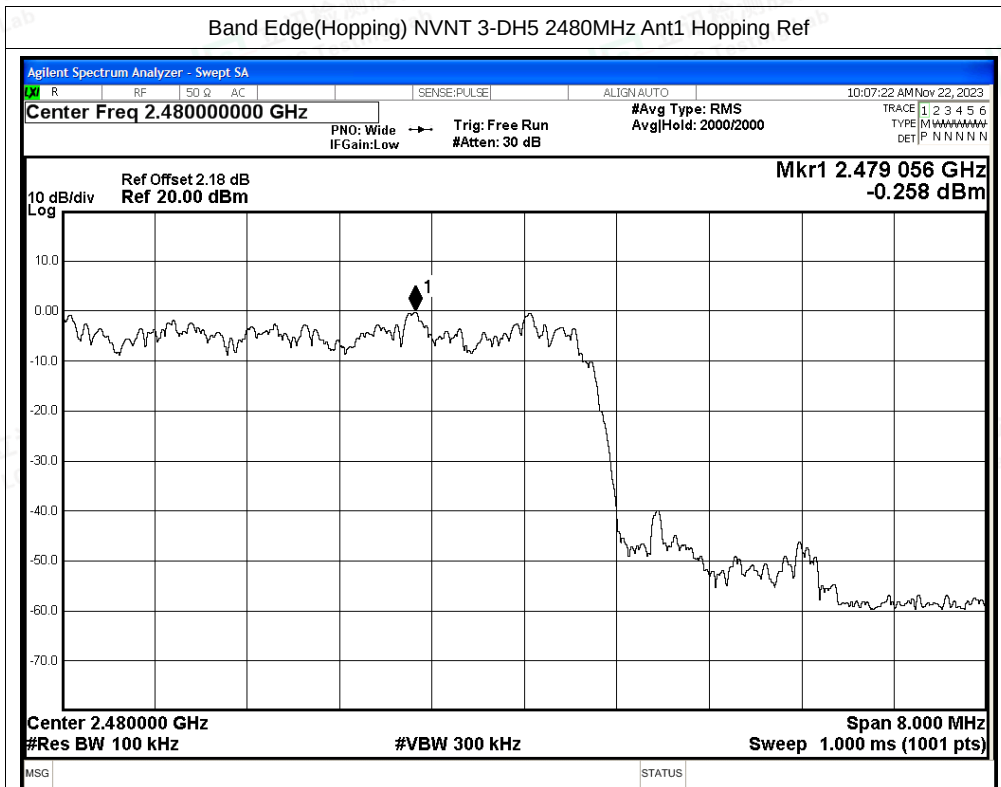
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## A.7 Conducted RF Spurious Emission

| Condition | Mode  | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|-------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | -54.71          | -20         | Pass    |
| NVNT      | 1-DH5 | 2441            | Ant1    | -57.8           | -20         | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | -55.98          | -20         | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | -54.01          | -20         | Pass    |
| NVNT      | 2-DH5 | 2441            | Ant1    | -56.64          | -20         | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | -54.71          | -20         | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | -55.09          | -20         | Pass    |
| NVNT      | 3-DH5 | 2441            | Ant1    | -57.27          | -20         | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | -55.3           | -20         | Pass    |

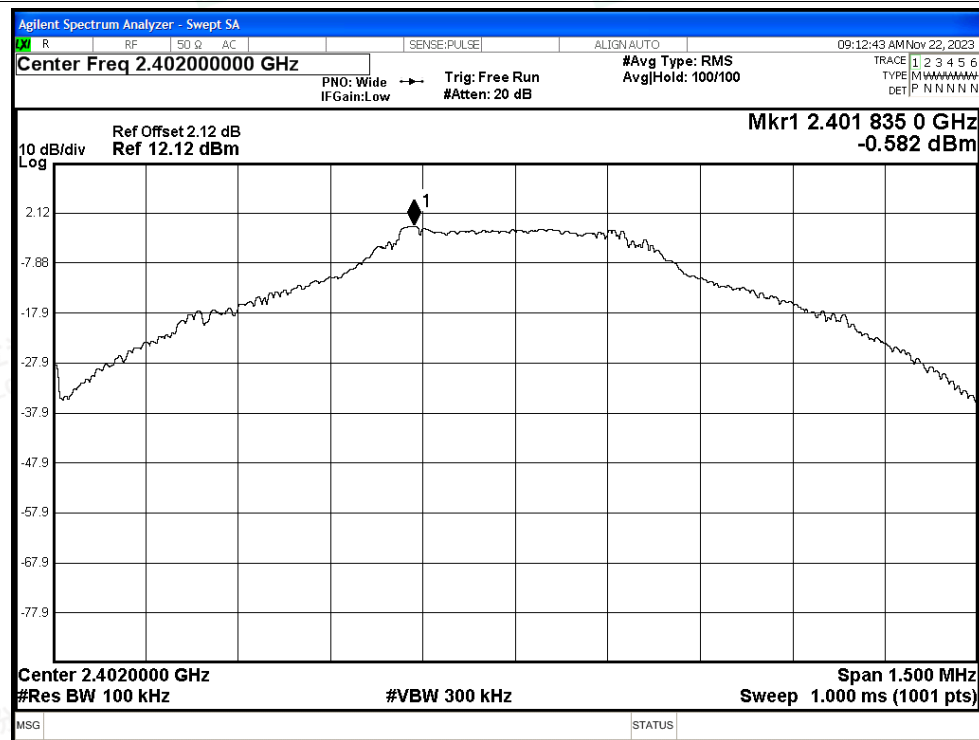


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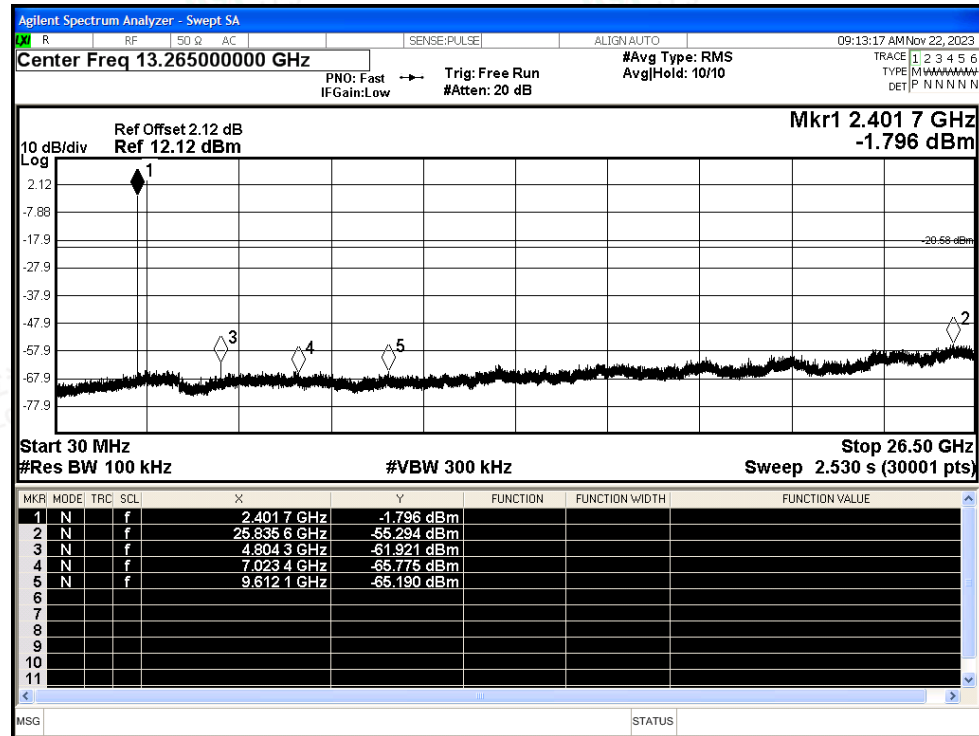


## Test Graphs

## Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



## Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



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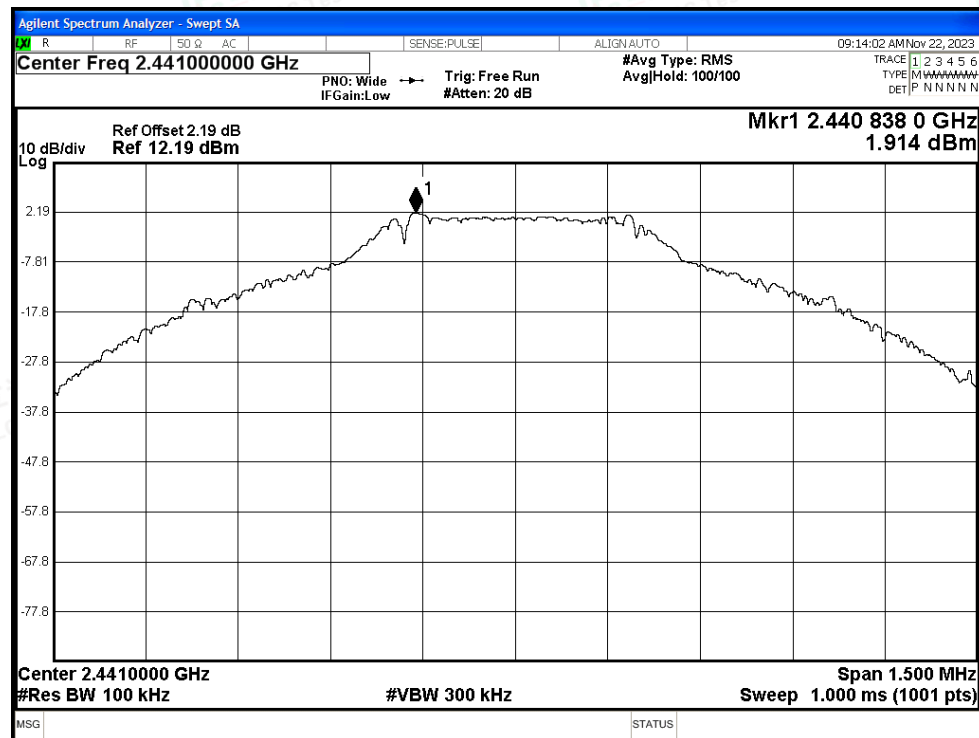
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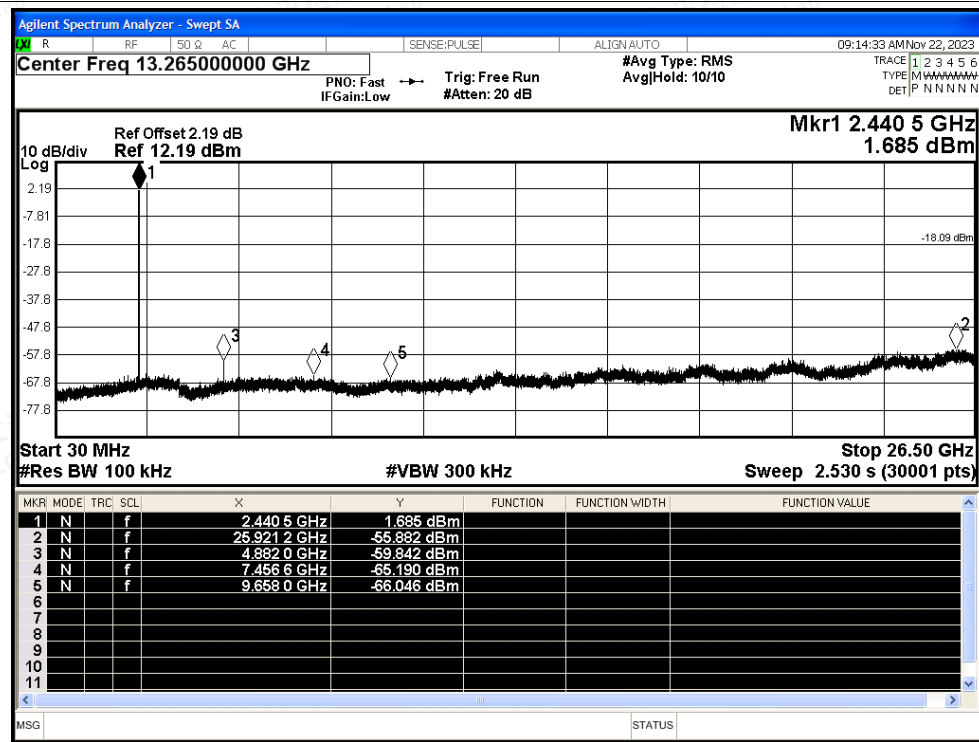
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## Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



## Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



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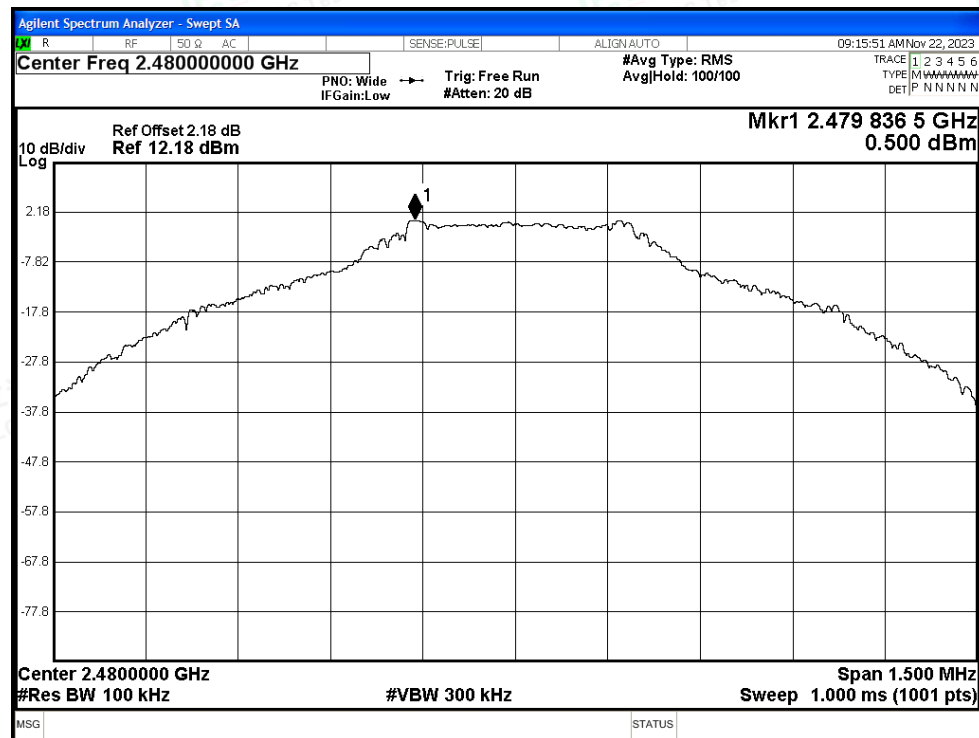
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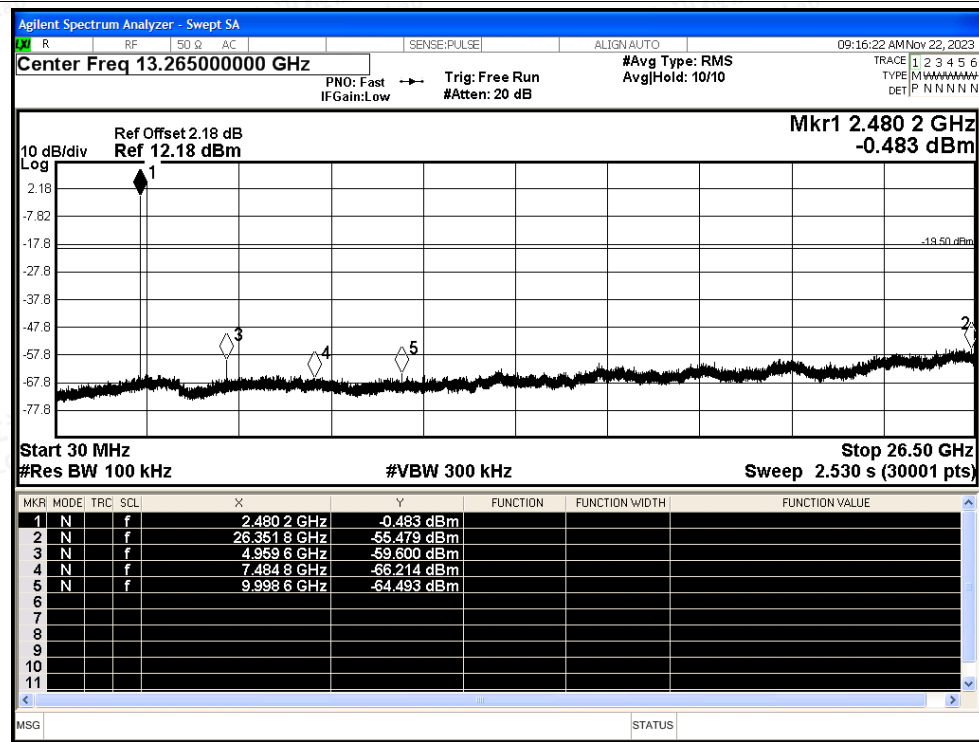




## Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



## Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



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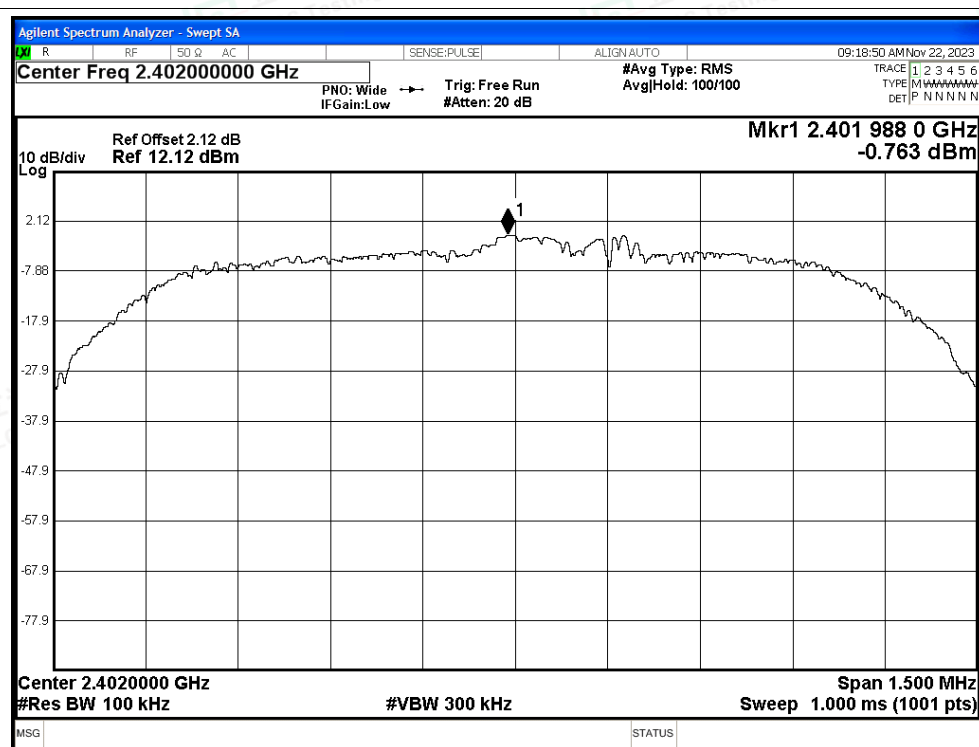
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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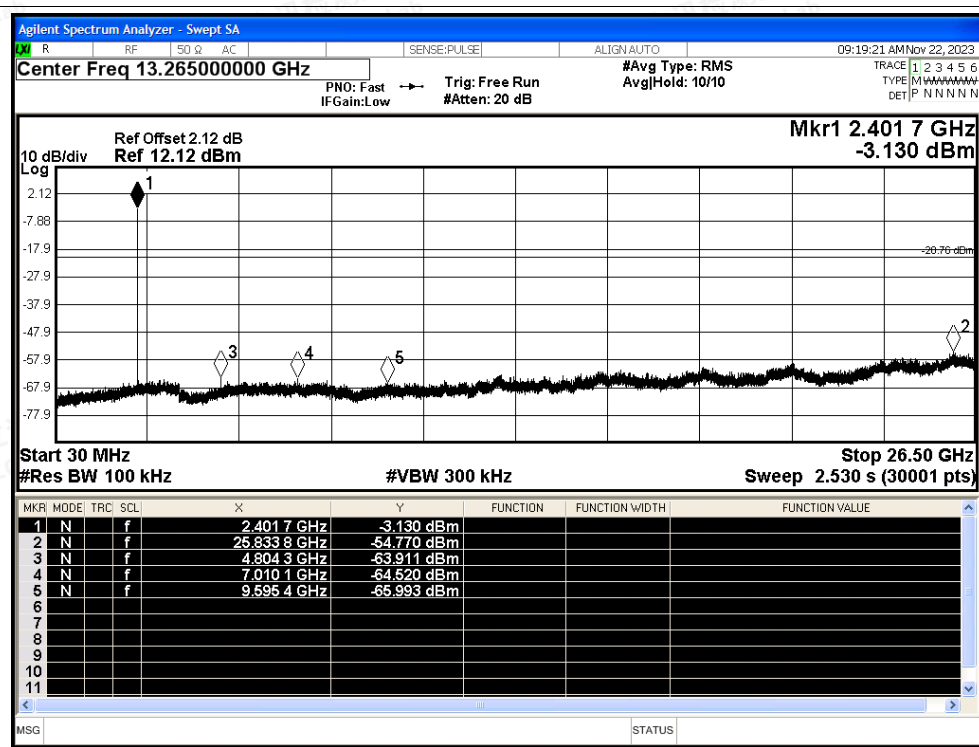
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## Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



## Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



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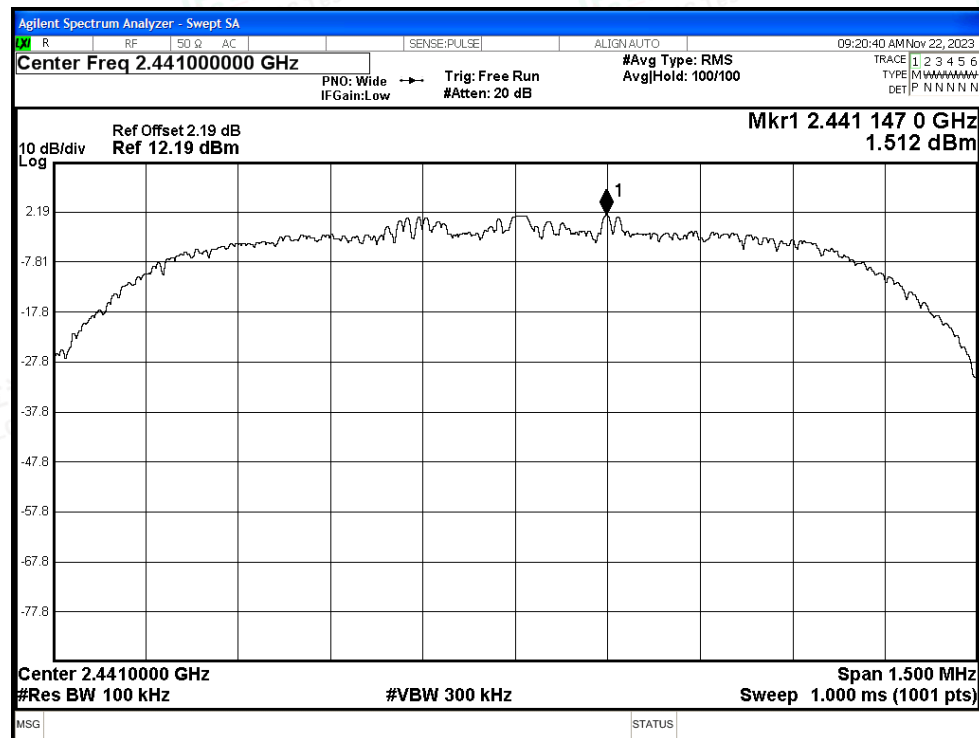
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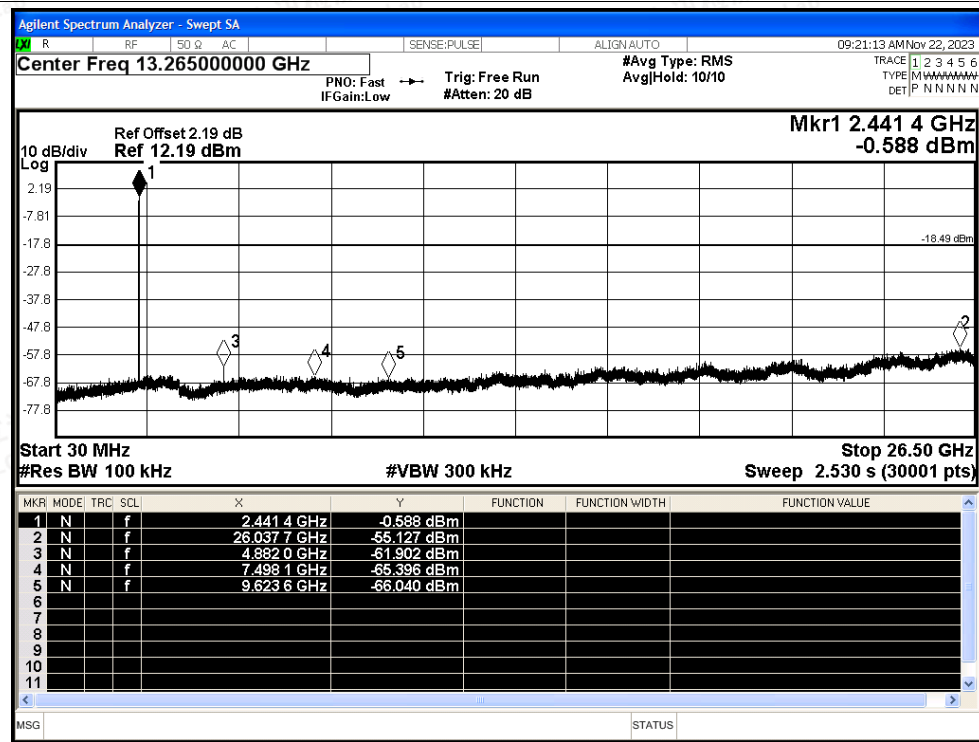
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## Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



## Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

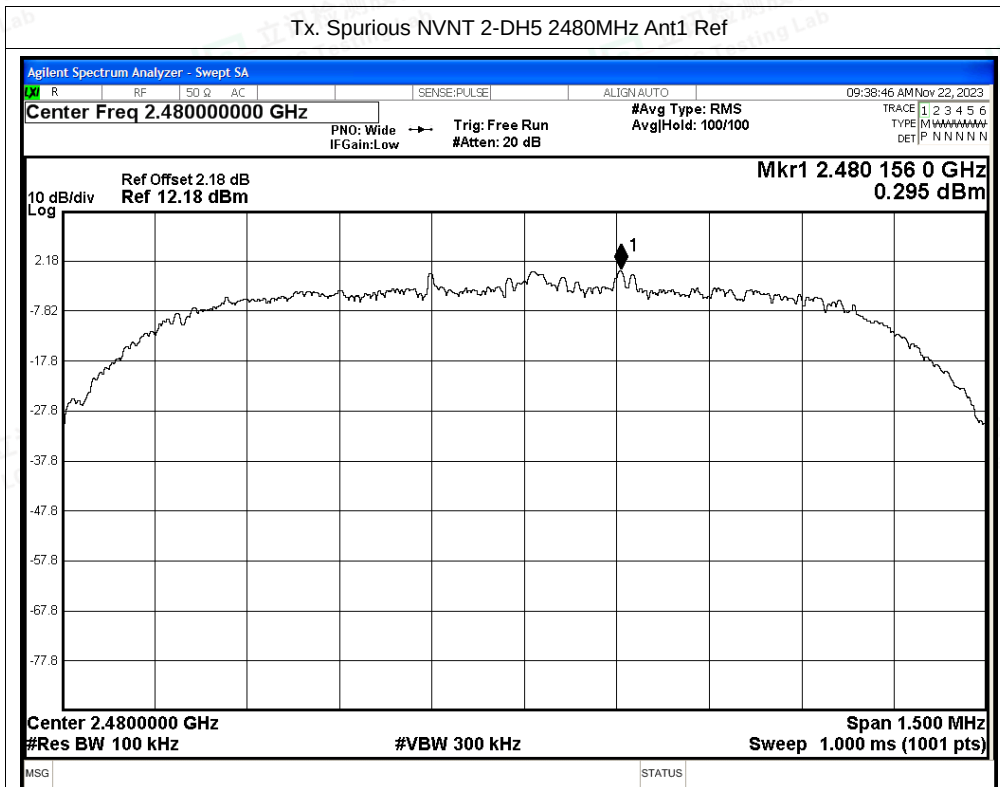


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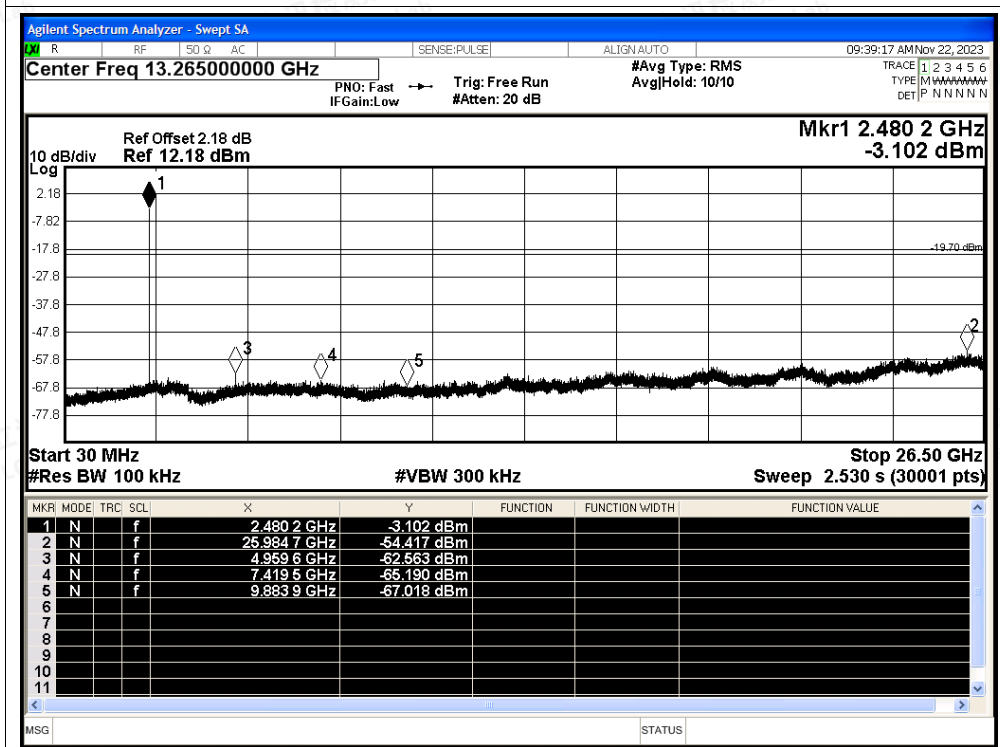
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Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



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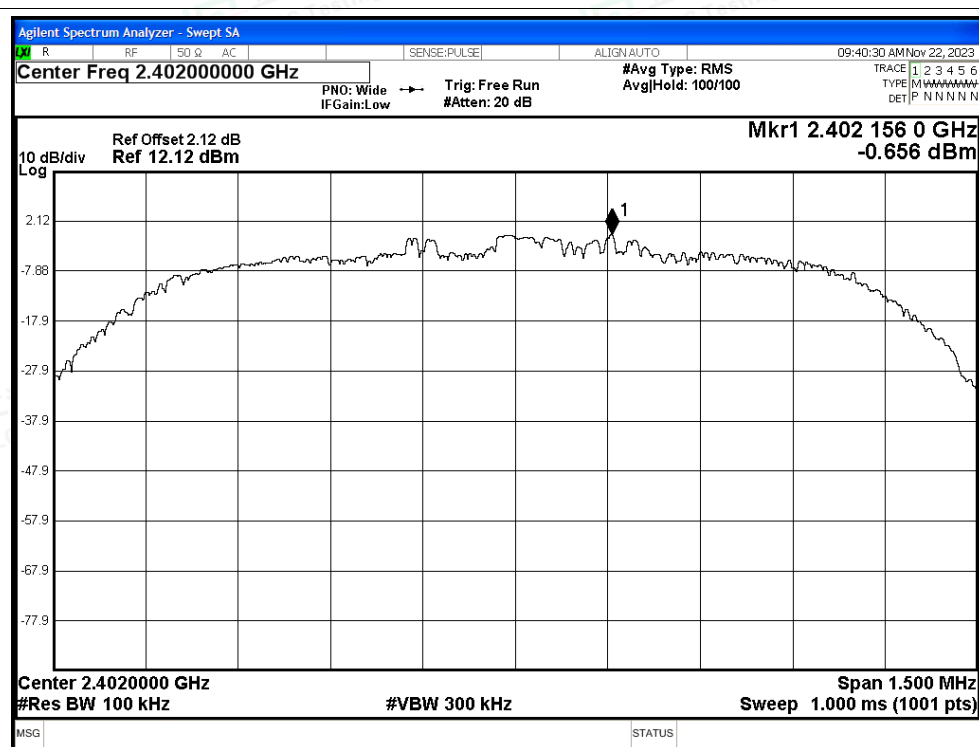
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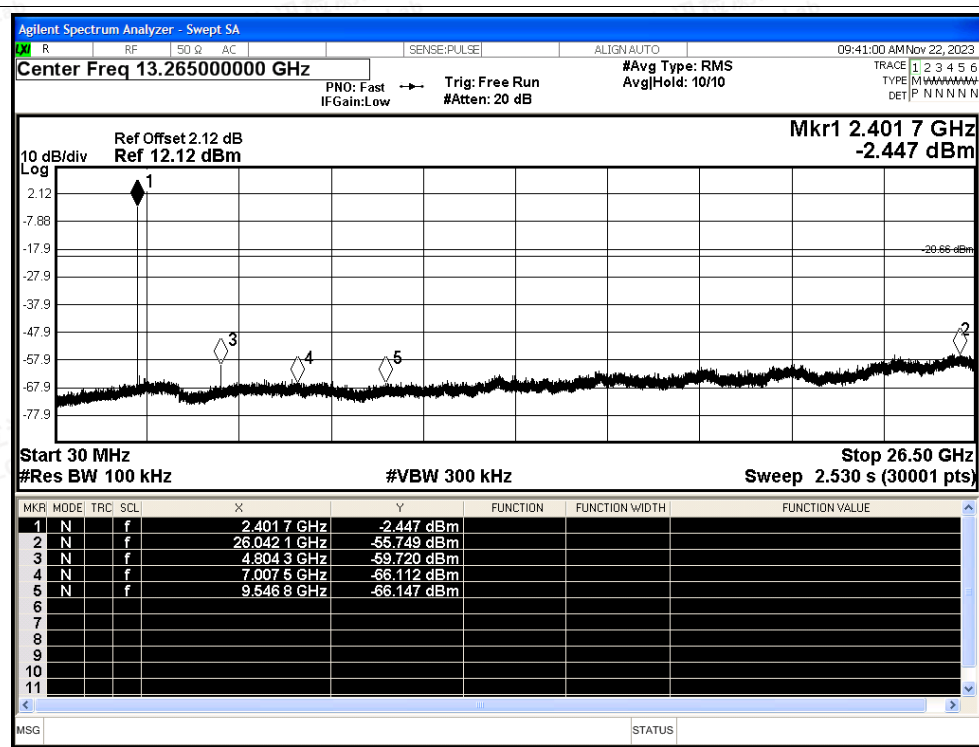
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## Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



## Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



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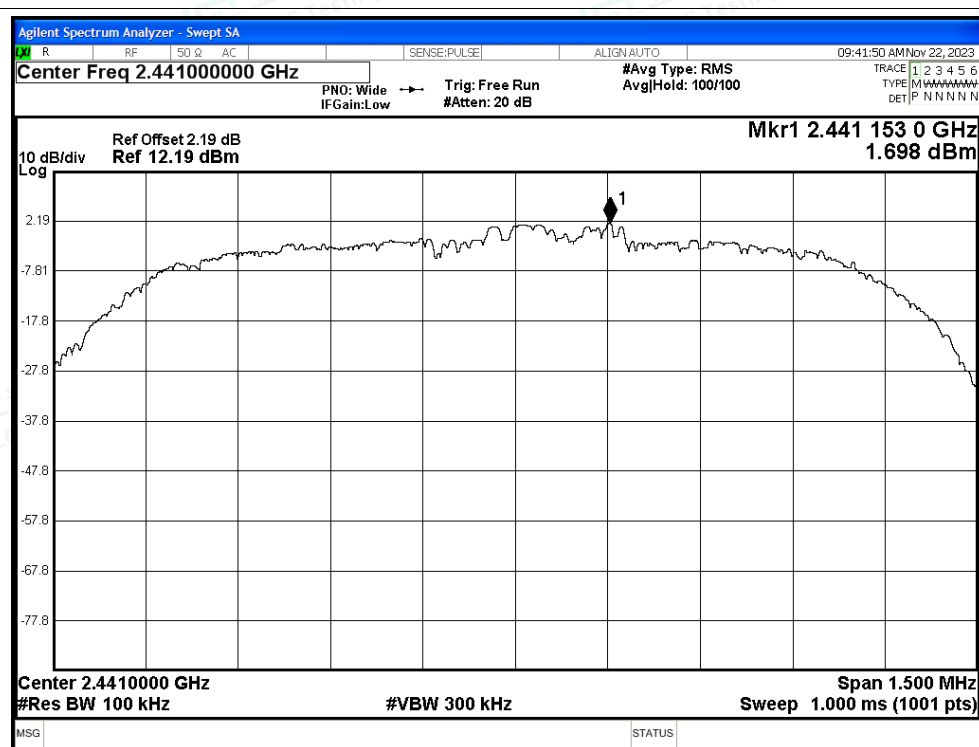
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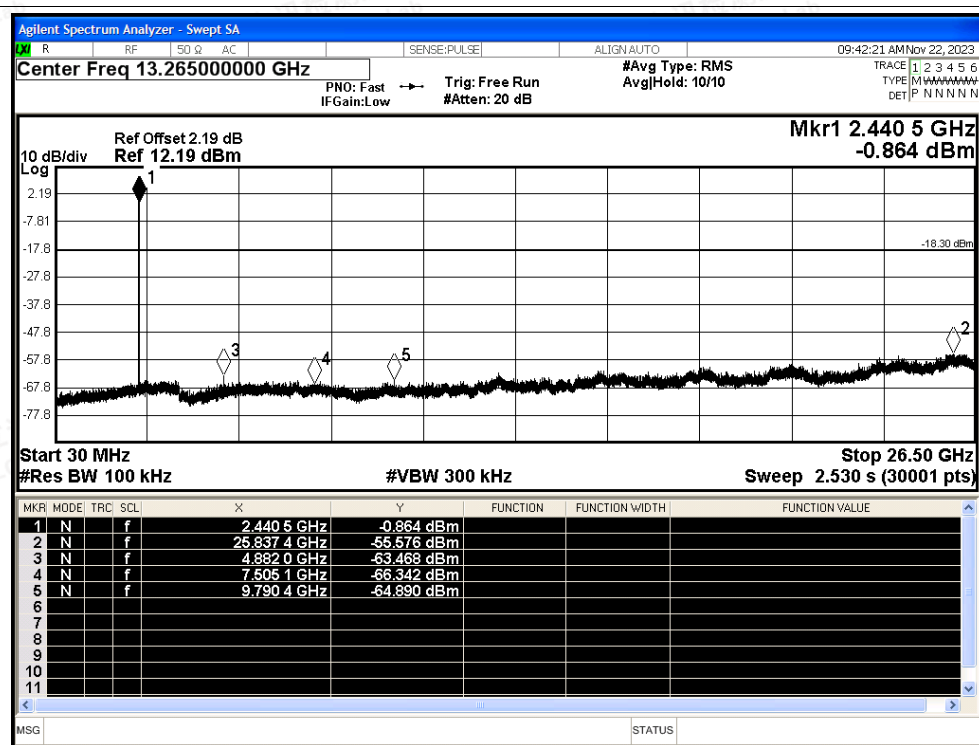
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## Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



## Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

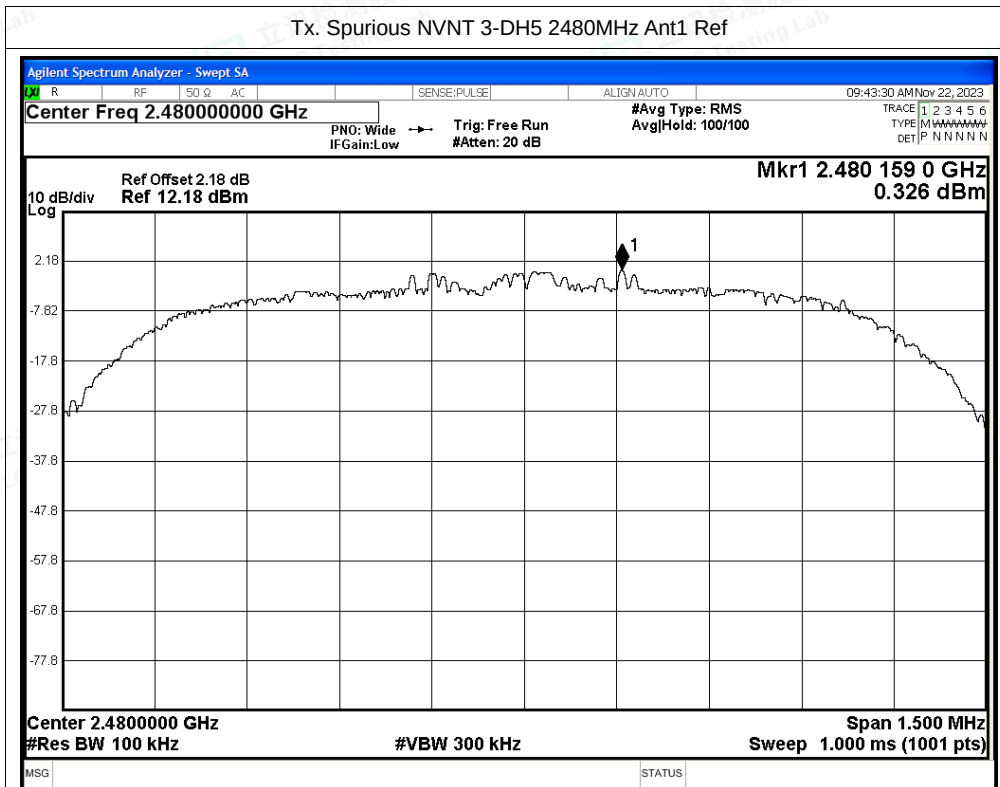


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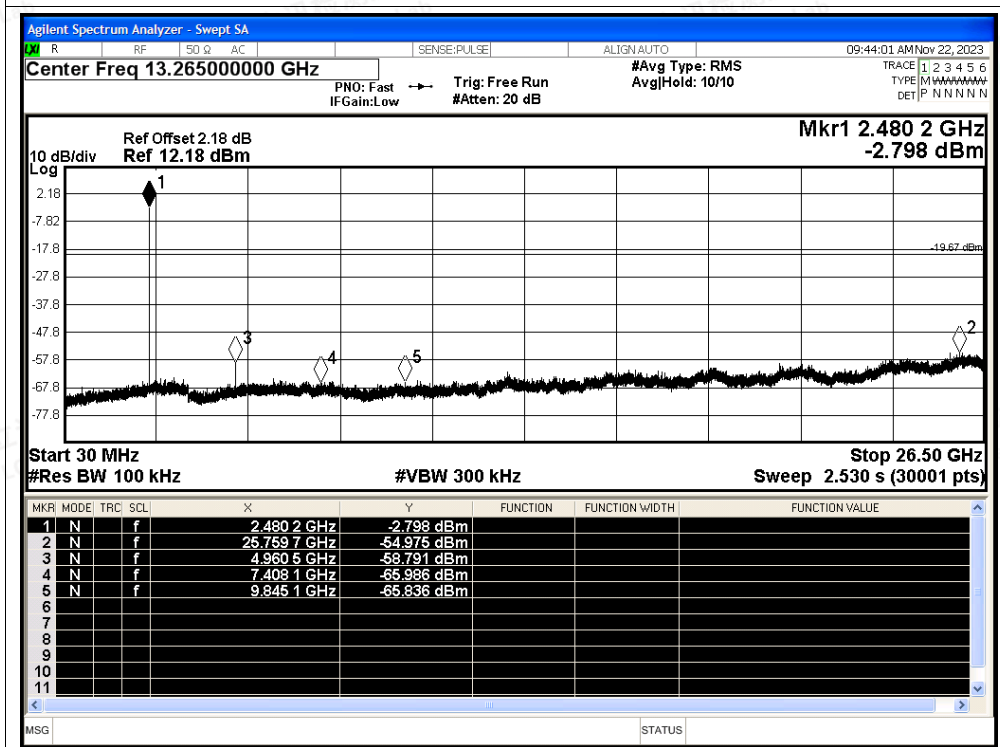
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Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



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## A.8 Restrict Band

| Condition | Mode  | Frequency (MHz) | Antenna | Hopping Mode | Spur Freq (MHz) | Power (dBm) | Gain (dBi) | E (dBuV/m) | Detector | Limit (dBuV/m) | Verdict |
|-----------|-------|-----------------|---------|--------------|-----------------|-------------|------------|------------|----------|----------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | No-Hopping   | 2310            | -51.34      | 2          | 45.92      | Peak     | 74             | Pass    |
| NVNT      | 1-DH5 | 2402            | Ant1    | No-Hopping   | 2310            | -57.7       | 2          | 39.56      | Average  | 54             | Pass    |
| NVNT      | 1-DH5 | 2402            | Ant1    | No-Hopping   | 2372.208        | -46.09      | 2          | 51.17      | Peak     | 74             | Pass    |
| NVNT      | 1-DH5 | 2402            | Ant1    | No-Hopping   | 2379.024        | -57.33      | 2          | 39.93      | Average  | 54             | Pass    |
| NVNT      | 1-DH5 | 2402            | Ant1    | No-Hopping   | 2390            | -51.27      | 2          | 45.99      | Peak     | 74             | Pass    |
| NVNT      | 1-DH5 | 2402            | Ant1    | No-Hopping   | 2390            | -57.43      | 2          | 39.83      | Average  | 54             | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | No-Hopping   | 2483.5          | -50.26      | 2          | 47         | Peak     | 74             | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | No-Hopping   | 2483.5          | -55.57      | 2          | 41.69      | Average  | 54             | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | No-Hopping   | 2486.872        | -46.97      | 2          | 50.29      | Peak     | 74             | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | No-Hopping   | 2483.512        | -55.57      | 2          | 41.69      | Average  | 54             | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | No-Hopping   | 2500            | -49.92      | 2          | 47.34      | Peak     | 74             | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | No-Hopping   | 2500            | -57.05      | 2          | 40.21      | Average  | 54             | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | No-Hopping   | 2310            | -50.24      | 2          | 47.02      | Peak     | 74             | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | No-Hopping   | 2310            | -56.44      | 2          | 40.82      | Average  | 54             | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | No-Hopping   | 2329.488        | -47.08      | 2          | 50.18      | Peak     | 74             | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | No-Hopping   | 2315.664        | -55.29      | 2          | 41.97      | Average  | 54             | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | No-Hopping   | 2390            | -50.38      | 2          | 46.88      | Peak     | 74             | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | No-Hopping   | 2390            | -56.15      | 2          | 41.11      | Average  | 54             | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | No-Hopping   | 2483.5          | -47.92      | 2          | 49.34      | Peak     | 74             | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | No-Hopping   | 2483.5          | -52.74      | 2          | 44.52      | Average  | 54             | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | No-Hopping   | 2483.56         | -46.15      | 2          | 51.11      | Peak     | 74             | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | No-Hopping   | 2483.512        | -52.74      | 2          | 44.52      | Average  | 54             | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | No-Hopping   | 2500            | -50.13      | 2          | 47.13      | Peak     | 74             | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | No-Hopping   | 2500            | -55.98      | 2          | 41.28      | Average  | 54             | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | No-Hopping   | 2310            | -51.94      | 2          | 45.32      | Peak     | 74             | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | No-Hopping   | 2310            | -56.37      | 2          | 40.89      | Average  | 54             | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | No-Hopping   | 2378.256        | -46.7       | 2          | 50.56      | Peak     | 74             | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | No-Hopping   | 2348.688        | -55.26      | 2          | 42         | Average  | 54             | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | No-Hopping   | 2390            | -50.67      | 2          | 46.59      | Peak     | 74             | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | No-Hopping   | 2390            | -56.25      | 2          | 41.01      | Average  | 54             | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | No-Hopping   | 2483.5          | -44.97      | 2          | 52.29      | Peak     | 74             | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | No-Hopping   | 2483.5          | -52.47      | 2          | 44.79      | Average  | 54             | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | No-Hopping   | 2484.688        | -44.22      | 2          | 53.04      | Peak     | 74             | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | No-Hopping   | 2483.512        | -52.47      | 2          | 44.79      | Average  | 54             | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | No-Hopping   | 2500            | -48.24      | 2          | 49.02      | Peak     | 74             | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | No-Hopping   | 2500            | -56.02      | 2          | 41.24      | Average  | 54             | Pass    |







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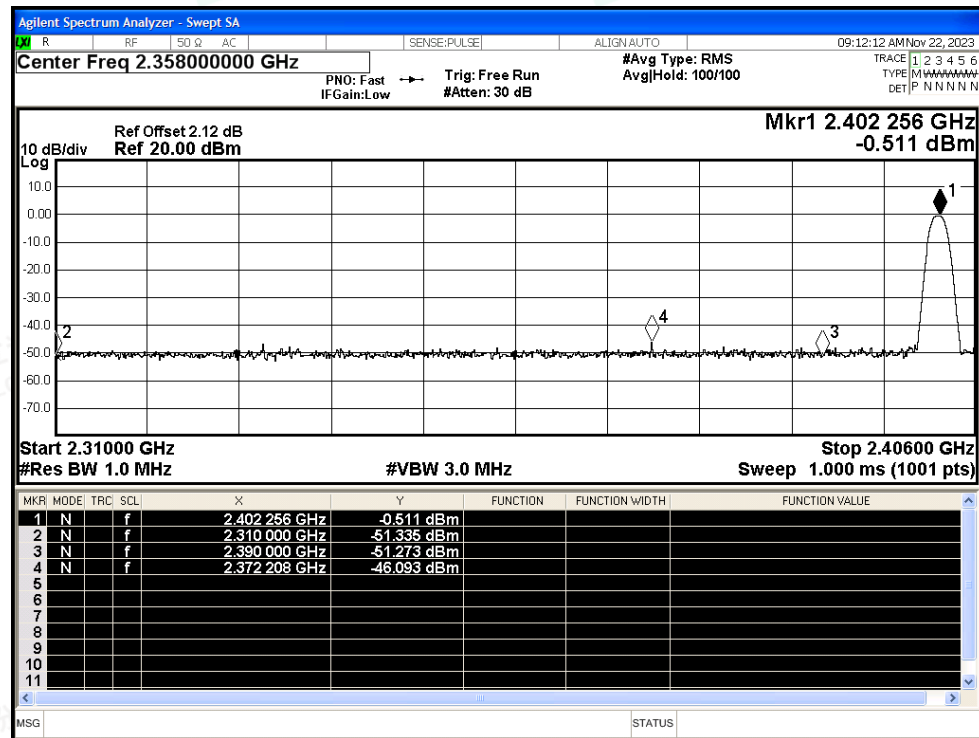
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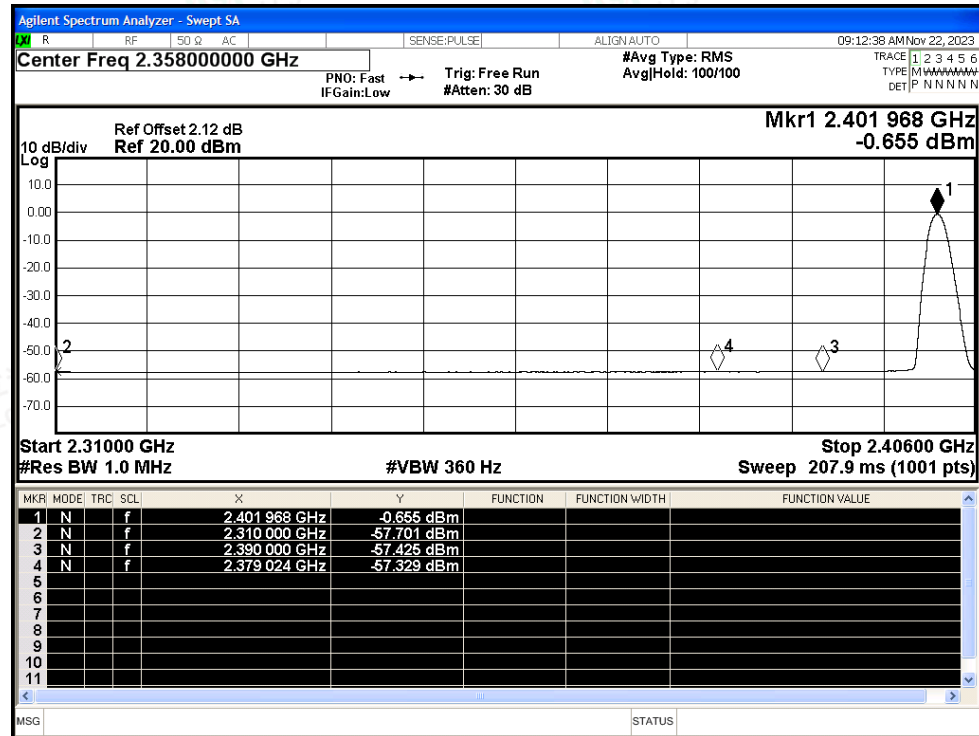


## Test Graphs

## Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak



## Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

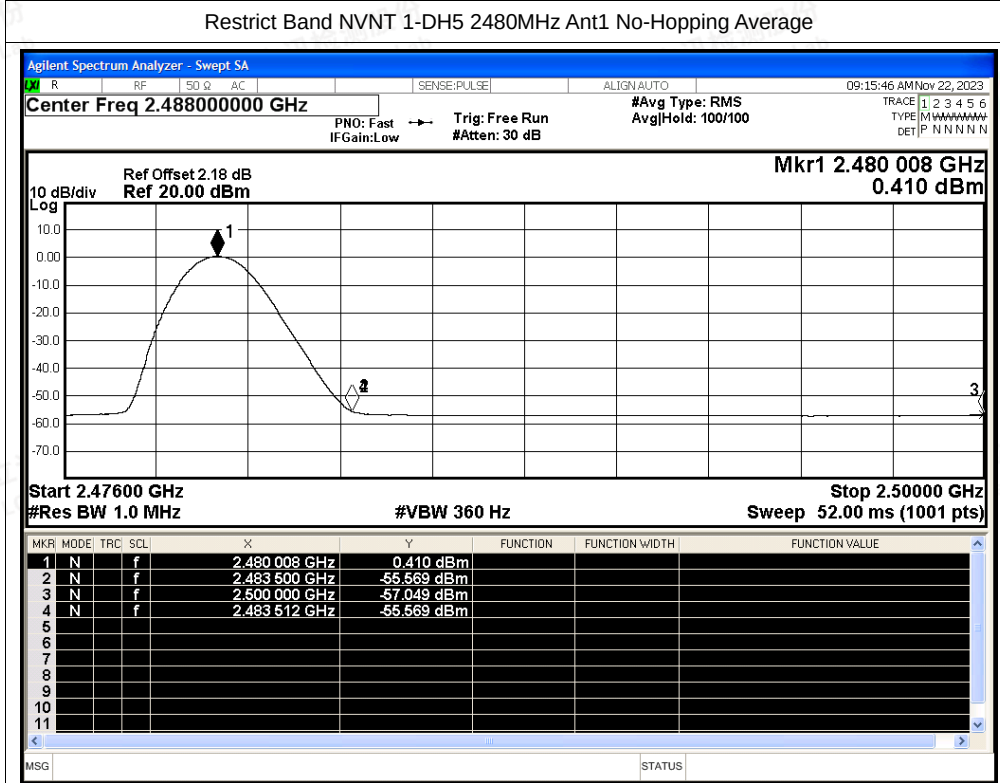
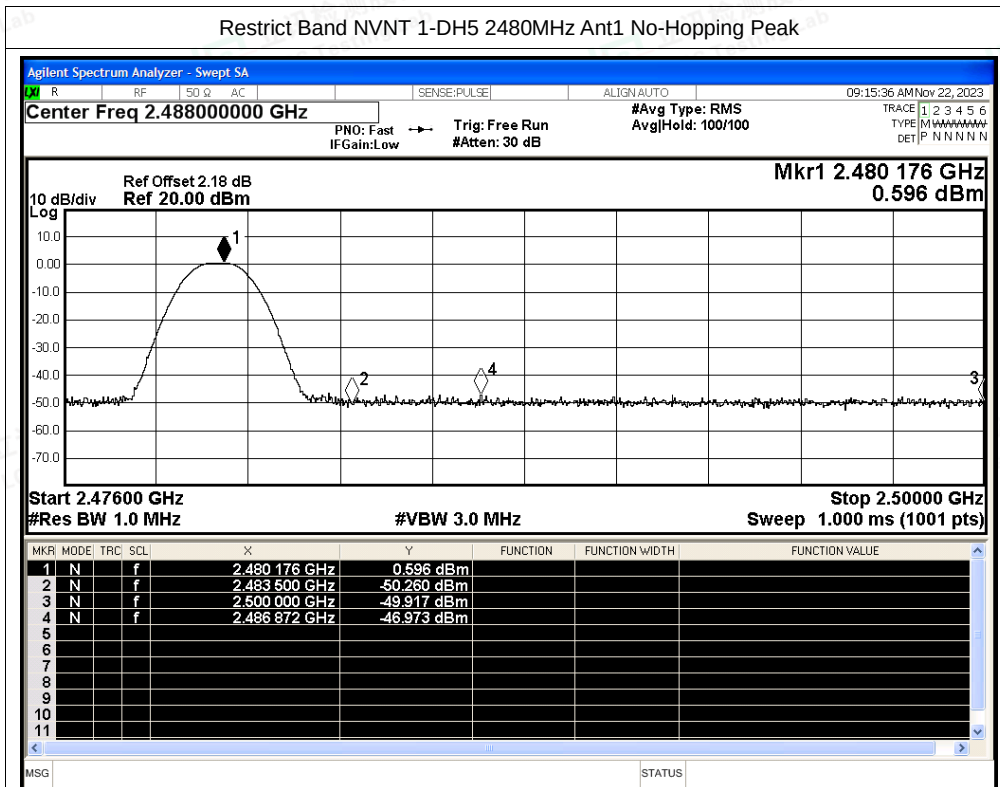


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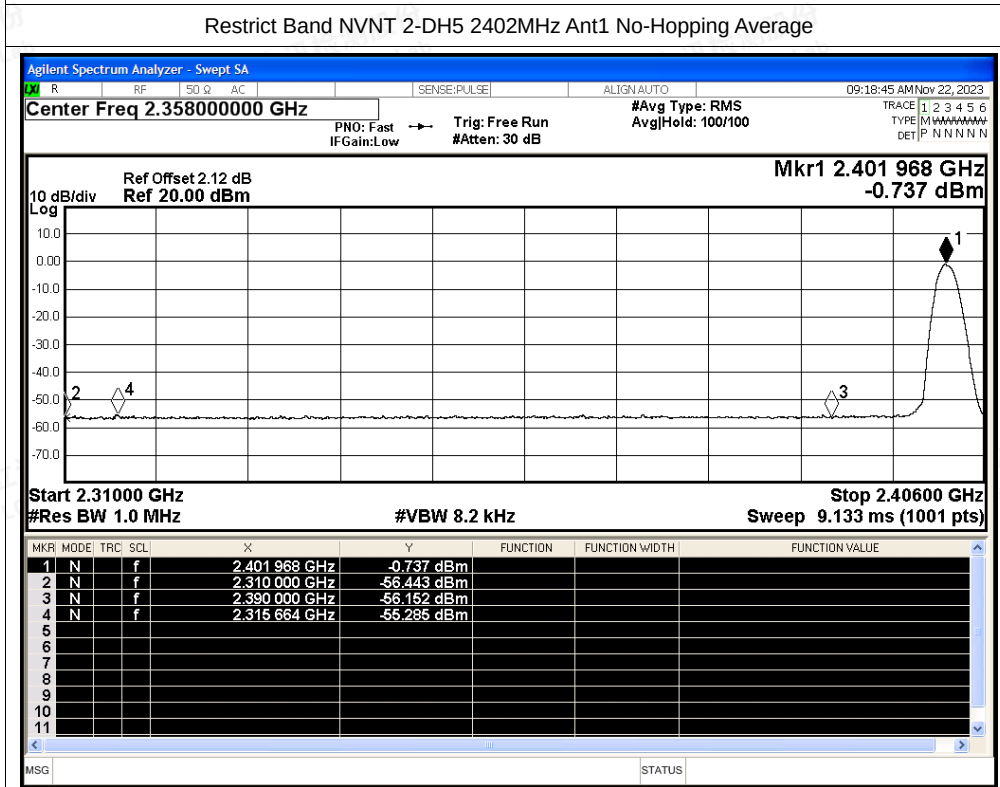
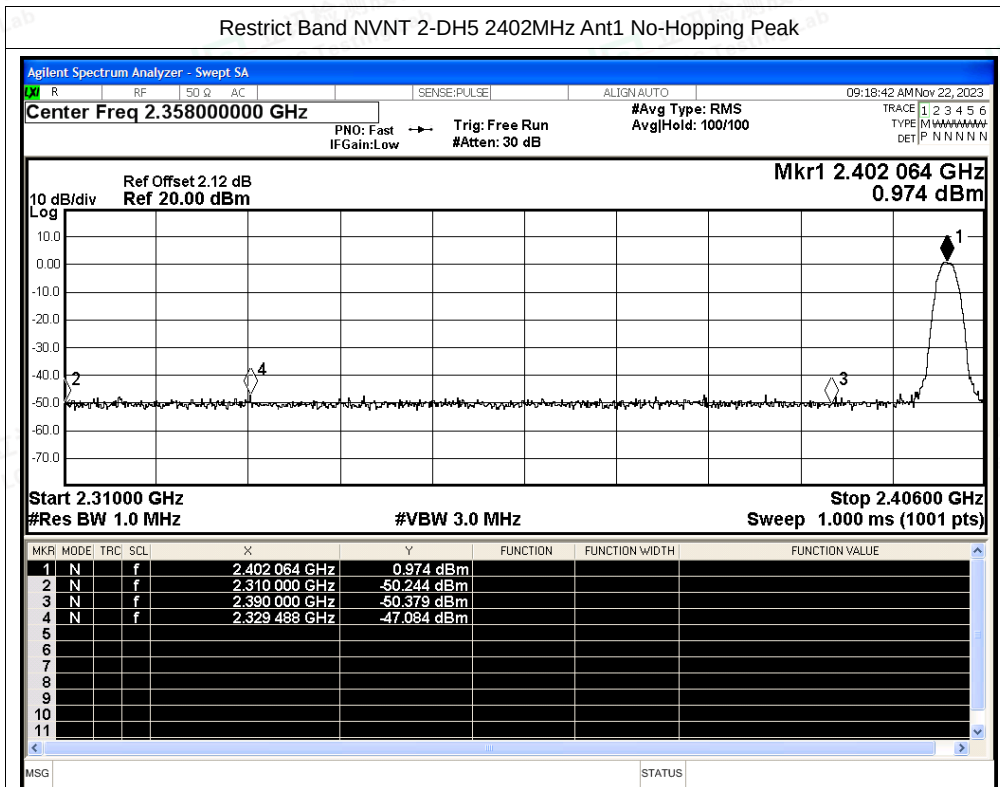


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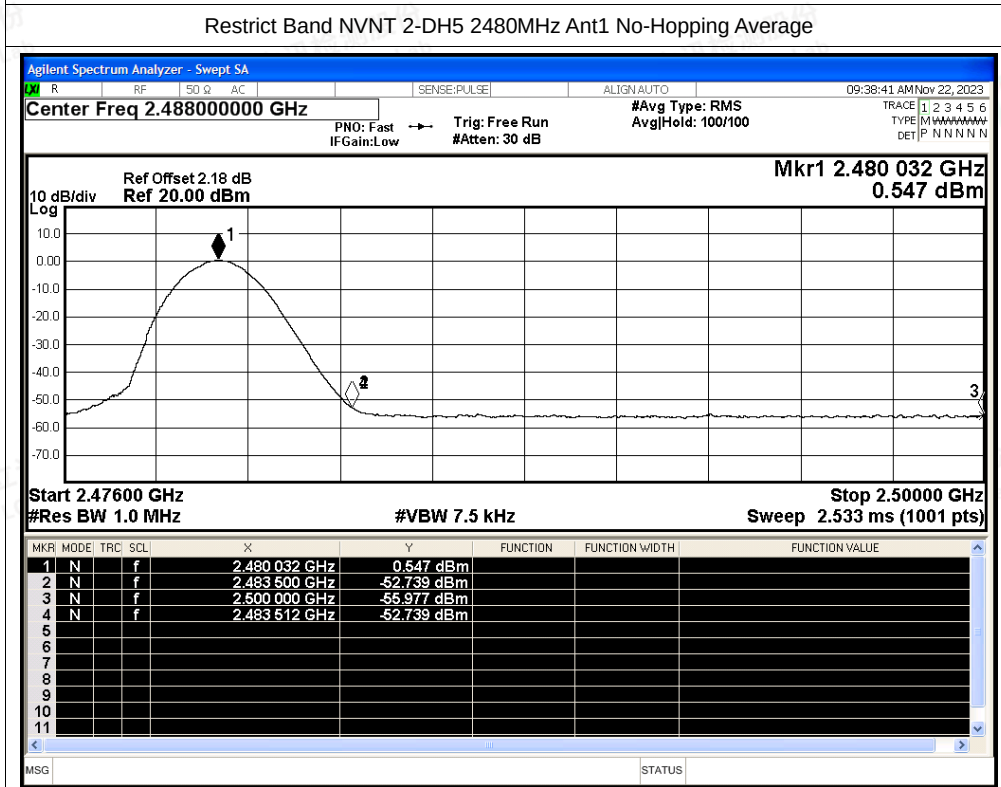
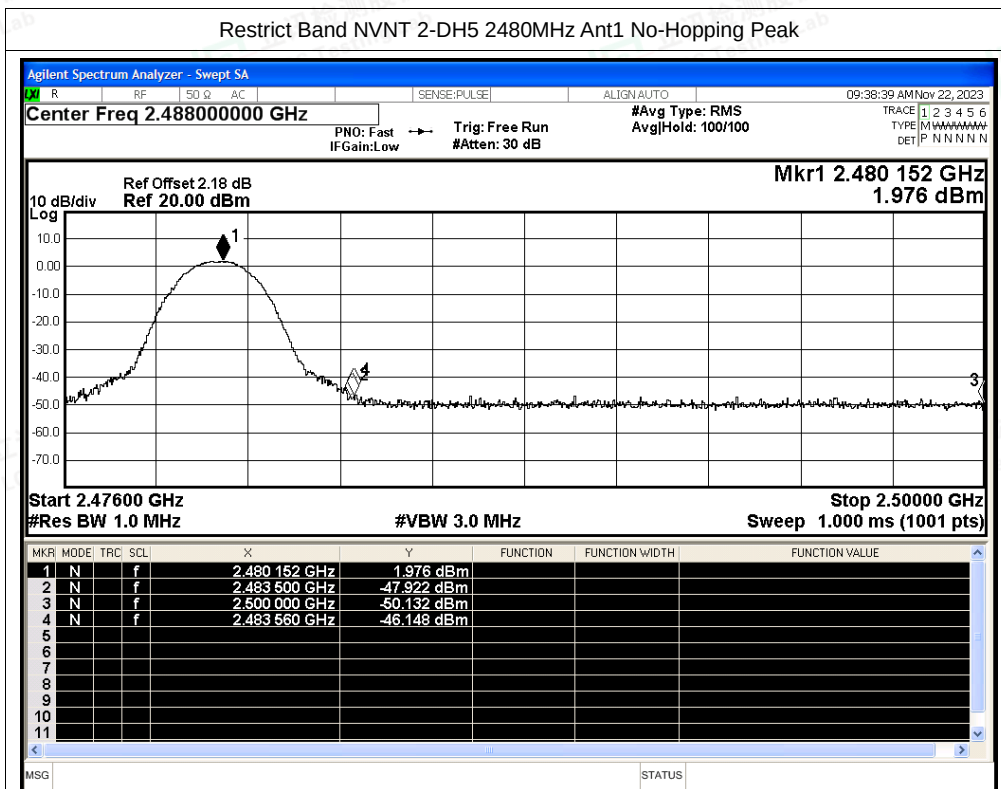


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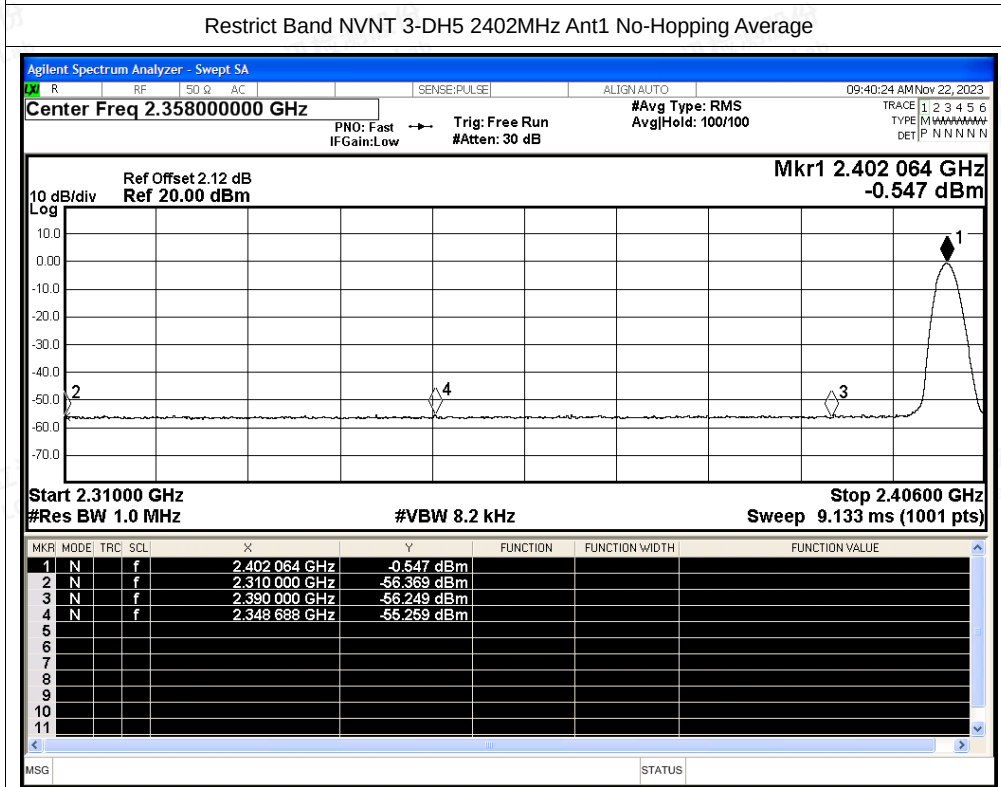
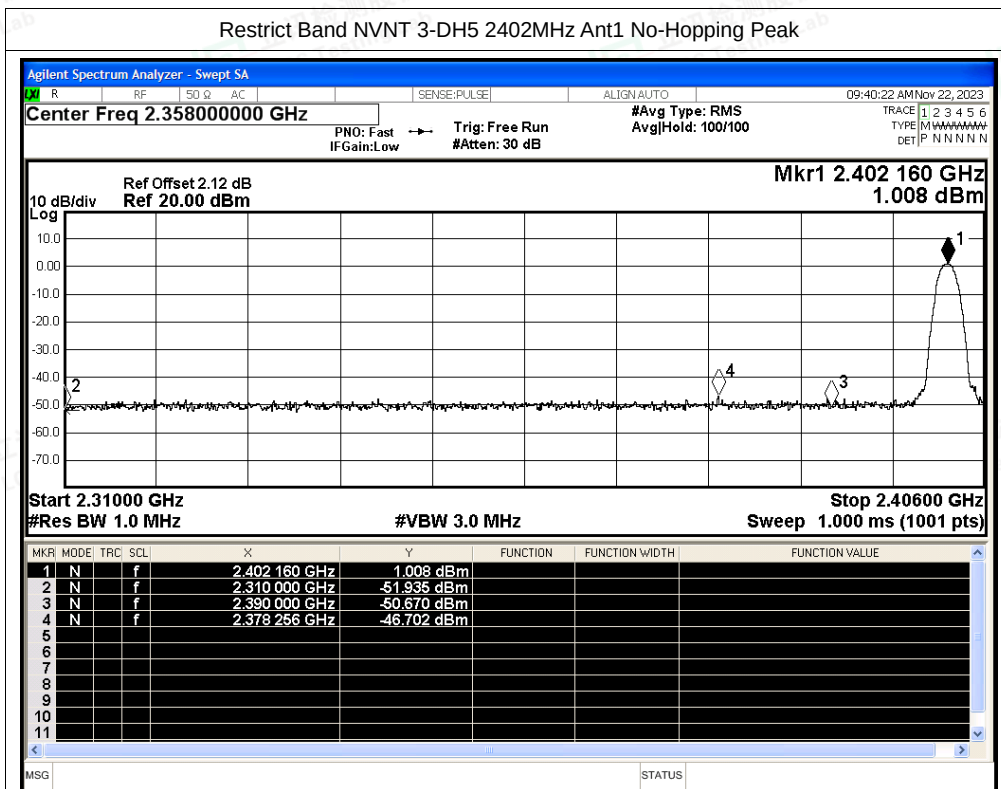


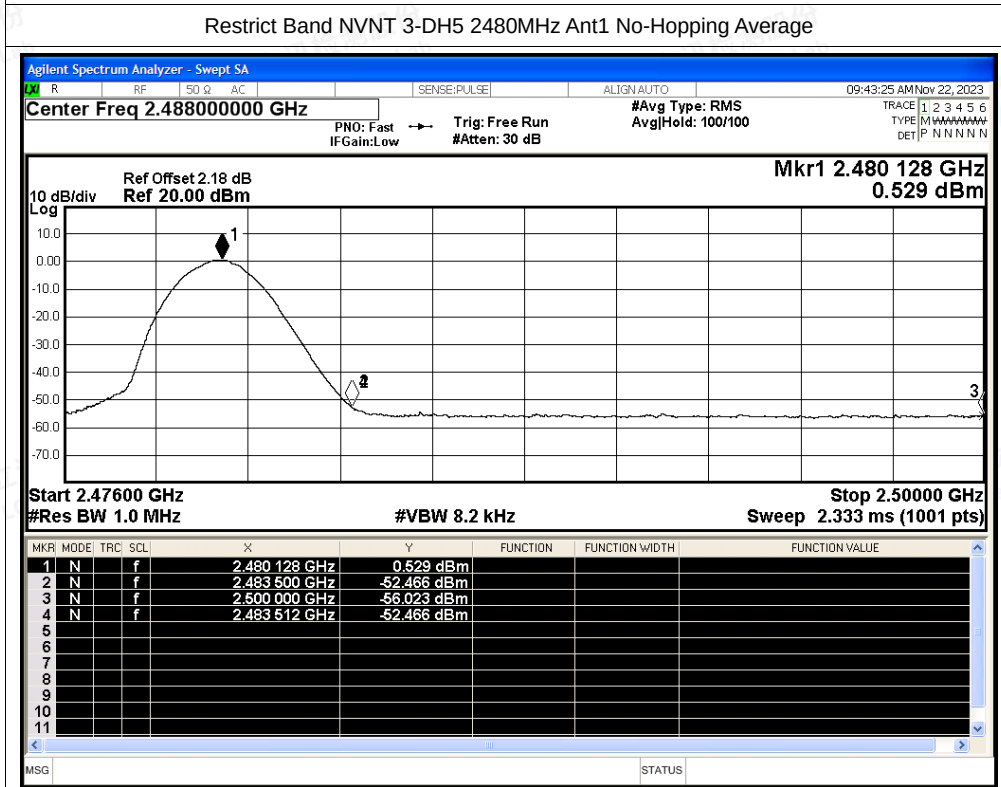
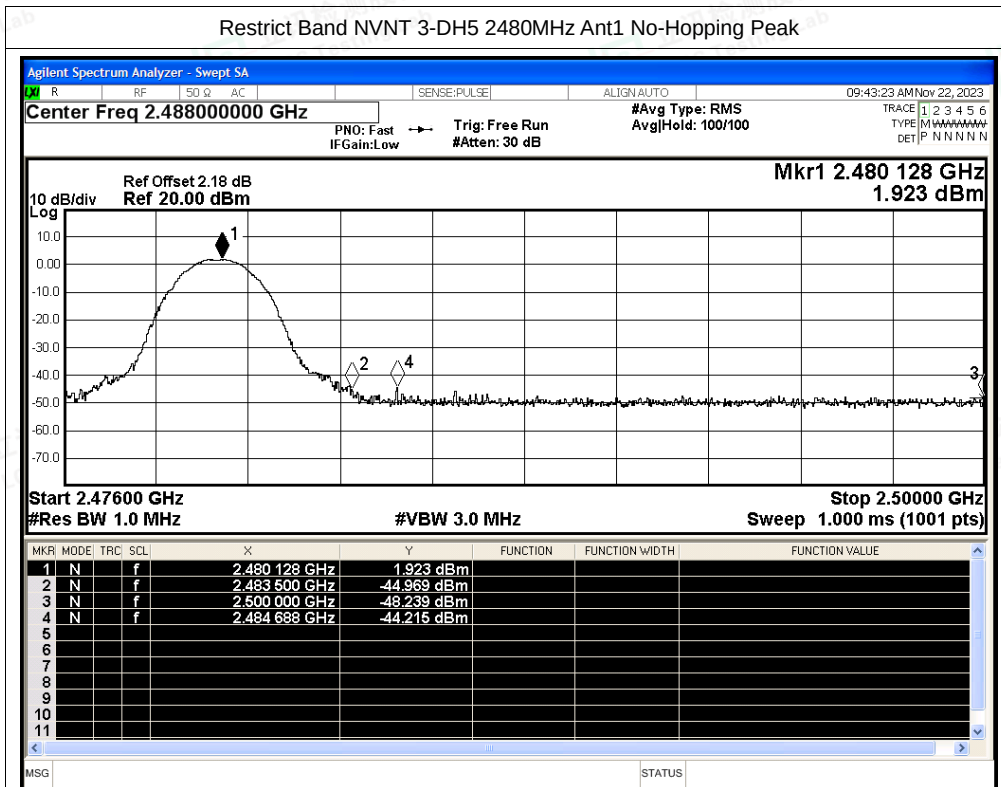
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