



## Appendix A

### RF Test Data for BT (Conducted Measurement)

**Product Name:** Bone conductive headphones

**Test Model:** X16

#### Environmental Conditions

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



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## A.1 -20dB Bandwidth

| Condition | Mode  | Frequency (MHz) | Antenna | -20 dB Bandwidth (MHz) | Limit -20 dB Bandwidth (MHz) | Verdict |
|-----------|-------|-----------------|---------|------------------------|------------------------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | 1.029                  | N/A                          | Pass    |
| NVNT      | 1-DH5 | 2441            | Ant1    | 0.975                  | N/A                          | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | 0.955                  | N/A                          | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | 1.311                  | N/A                          | Pass    |
| NVNT      | 2-DH5 | 2441            | Ant1    | 1.313                  | N/A                          | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | 1.289                  | N/A                          | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | 1.268                  | N/A                          | Pass    |
| NVNT      | 3-DH5 | 2441            | Ant1    | 1.292                  | N/A                          | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | 1.272                  | N/A                          | Pass    |





## Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

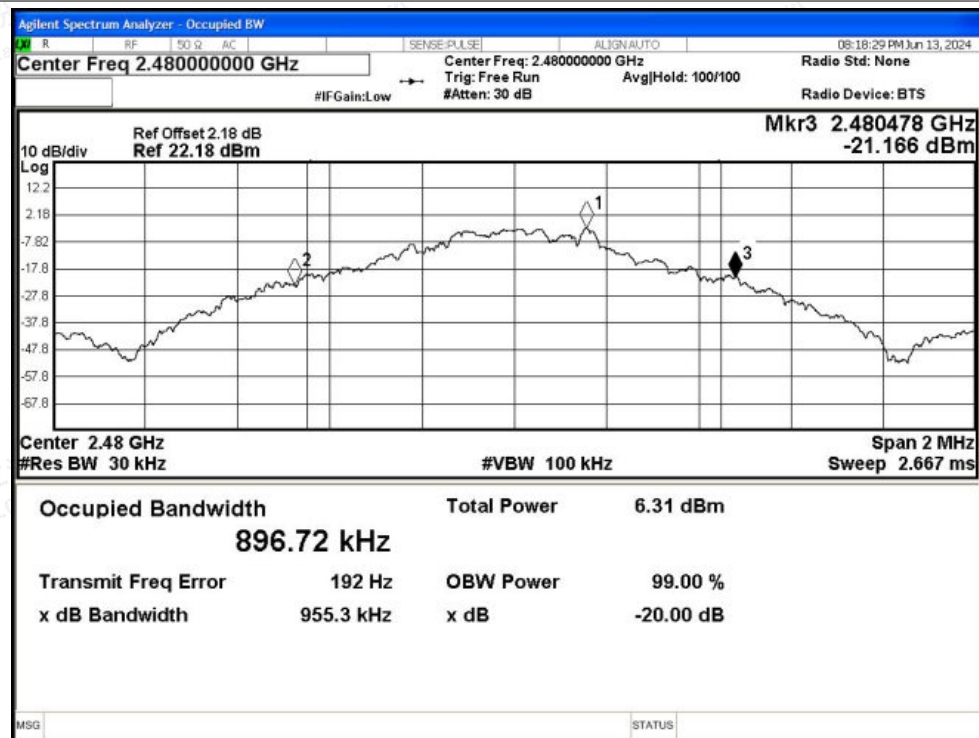


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

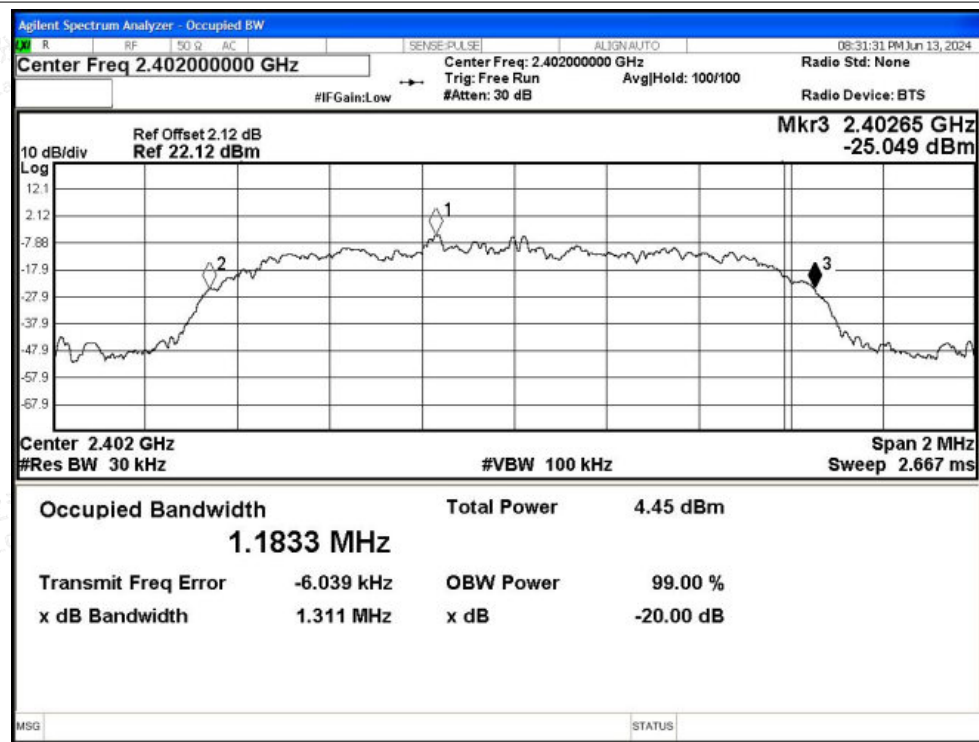




## -20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

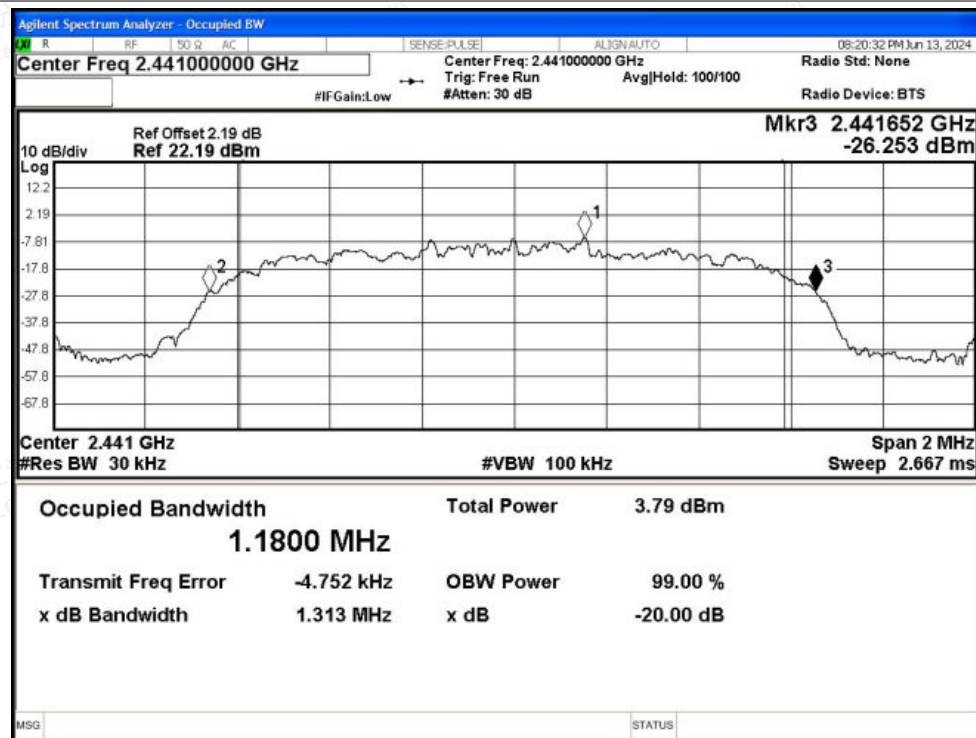


## -20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

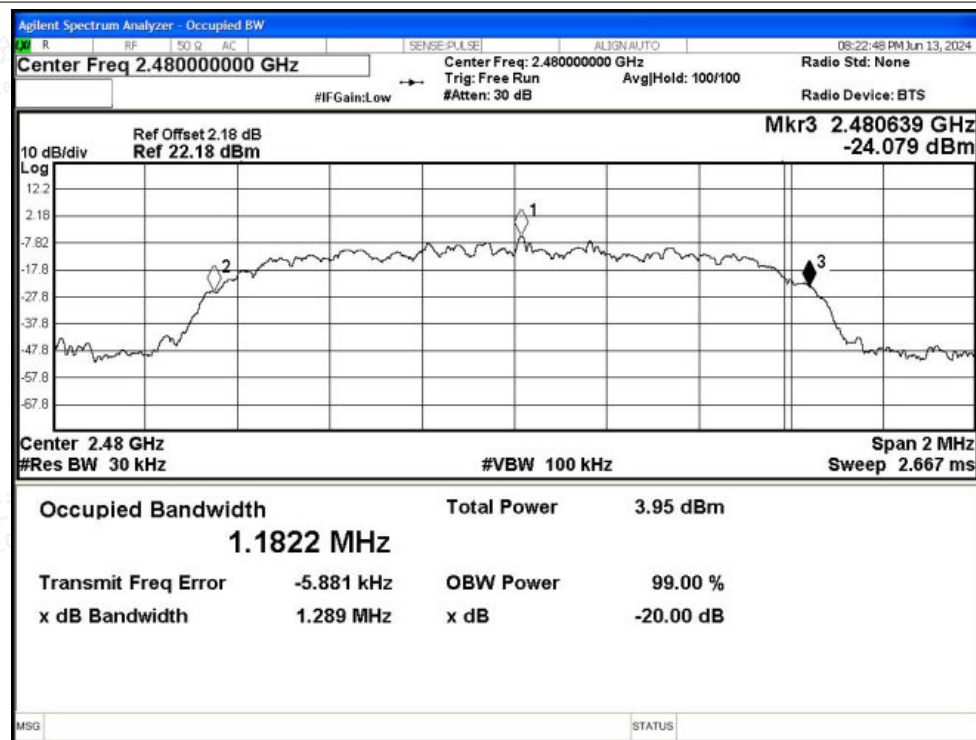




## -20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



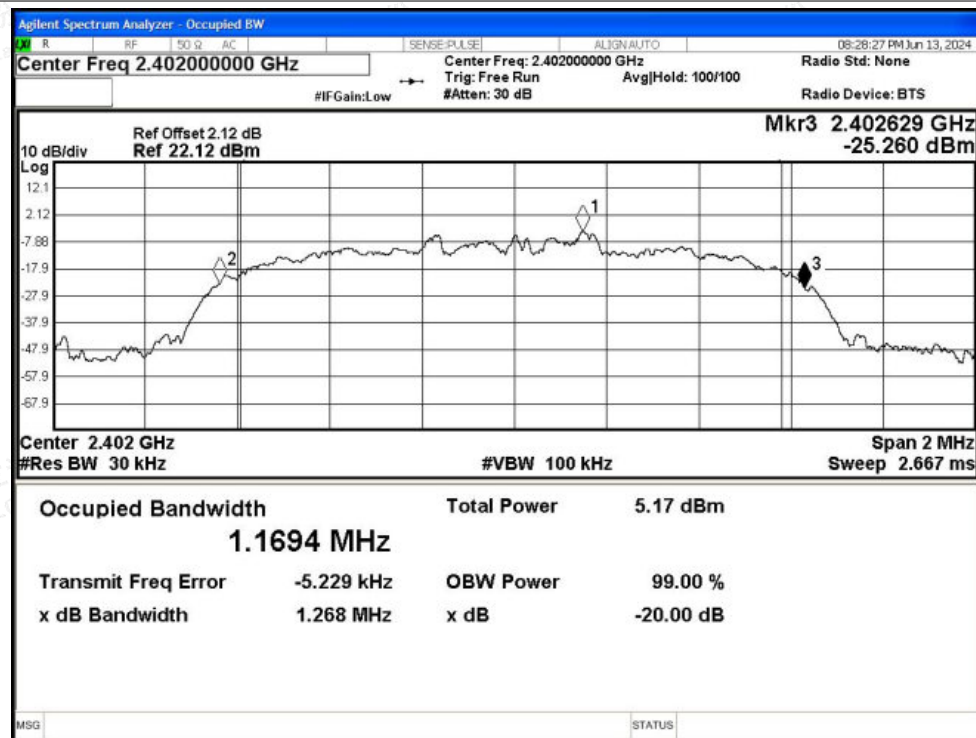
## -20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



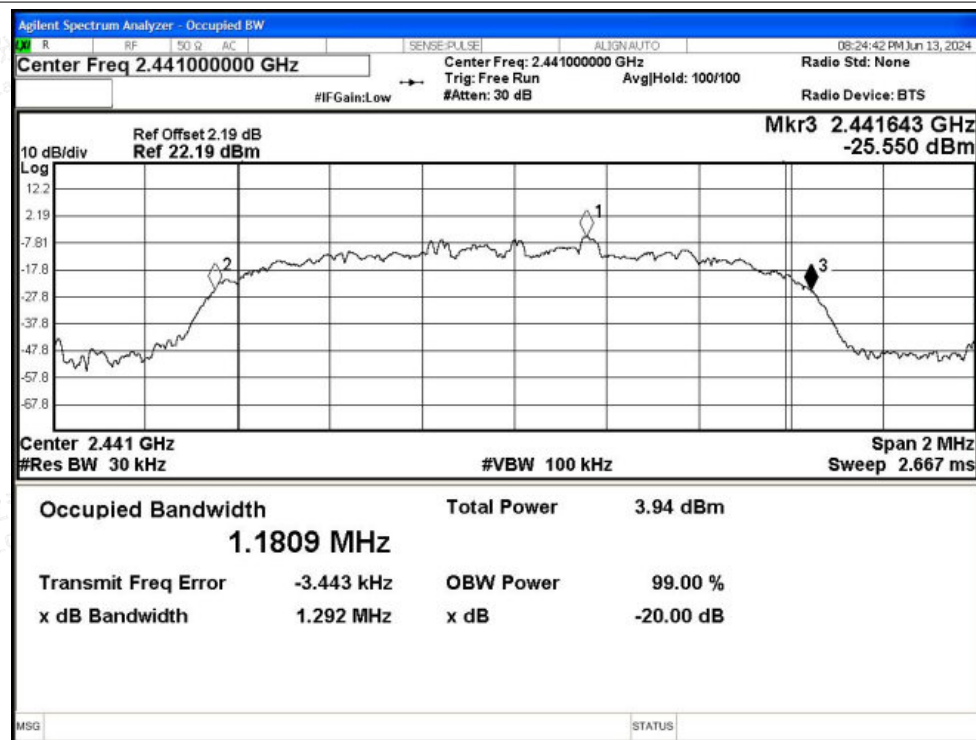




## -20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

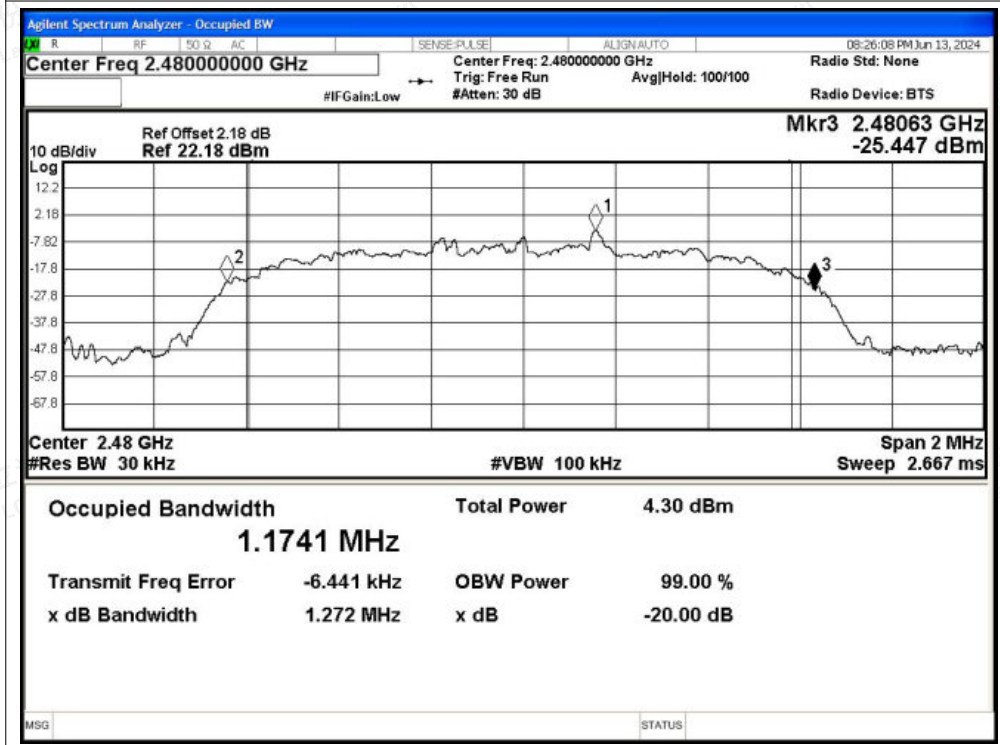


## -20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1





## A.2 Maximum Conducted Output Power

| Condition | Mode  | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|-------|-----------------|---------|-----------------------|-------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | -0.98                 | 21          | Pass    |
| NVNT      | 1-DH5 | 2441            | Ant1    | -0.39                 | 21          | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | -0.06                 | 21          | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | 0.27                  | 21          | Pass    |
| NVNT      | 2-DH5 | 2441            | Ant1    | -0.74                 | 21          | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | -0.28                 | 21          | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | 0.32                  | 21          | Pass    |
| NVNT      | 3-DH5 | 2441            | Ant1    | -0.57                 | 21          | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | -0.21                 | 21          | Pass    |

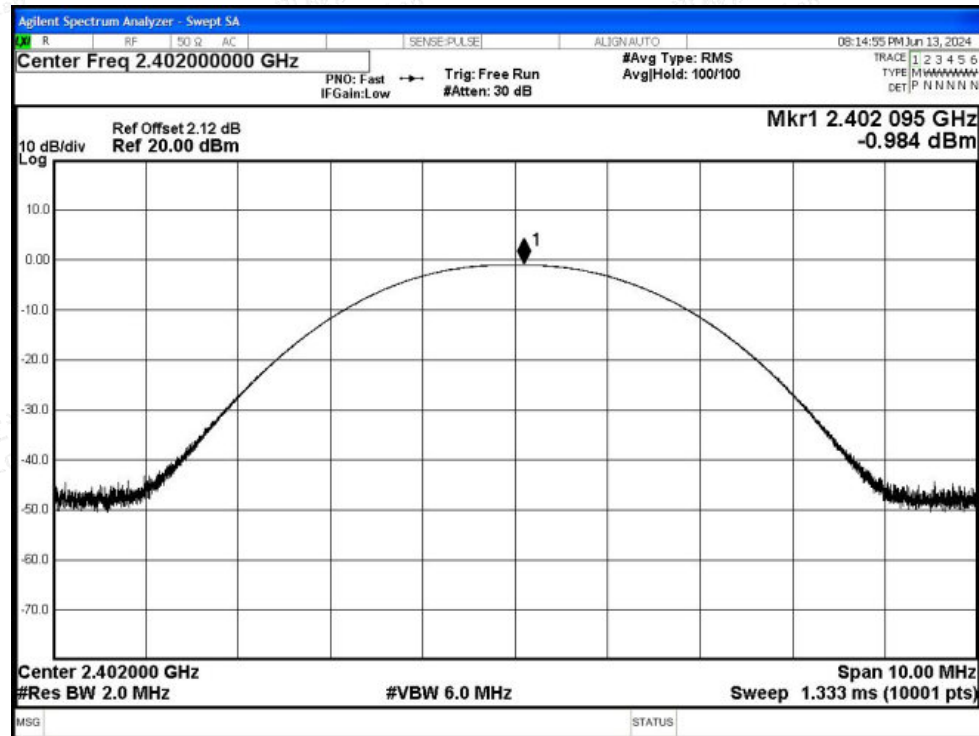




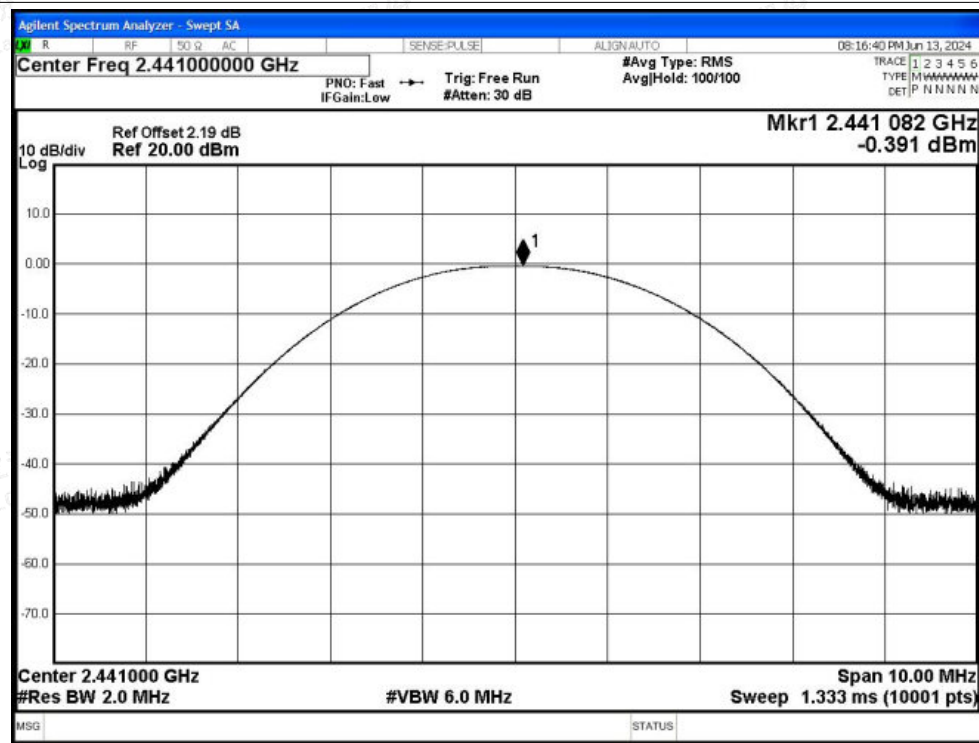


## Test Graphs

## Power NVNT 1-DH5 2402MHz Ant1

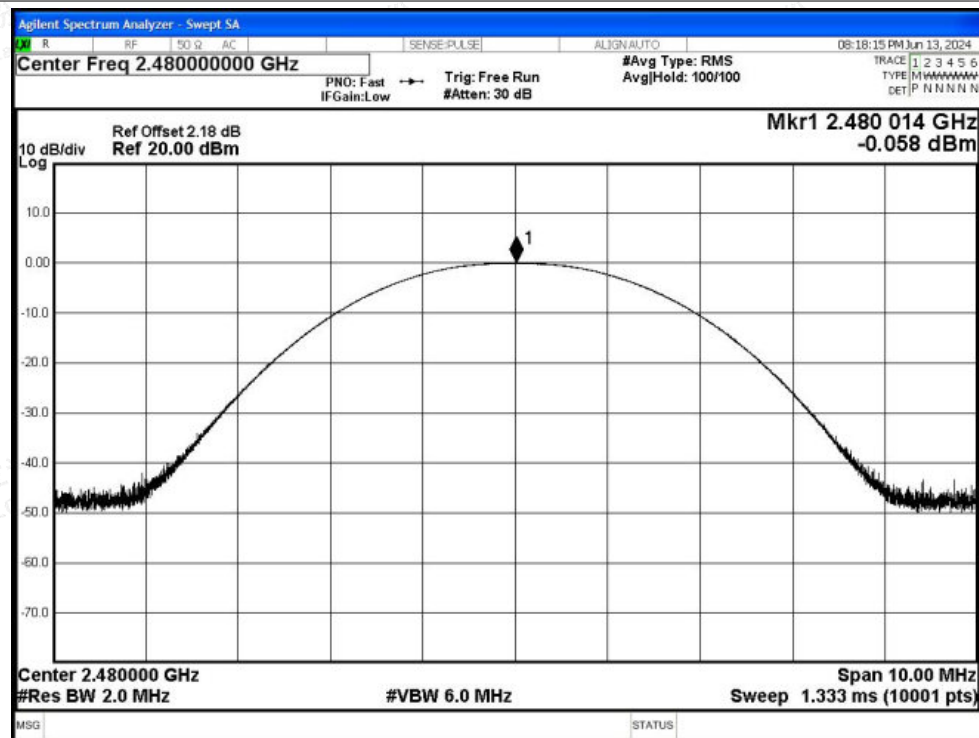


## Power NVNT 1-DH5 2441MHz Ant1

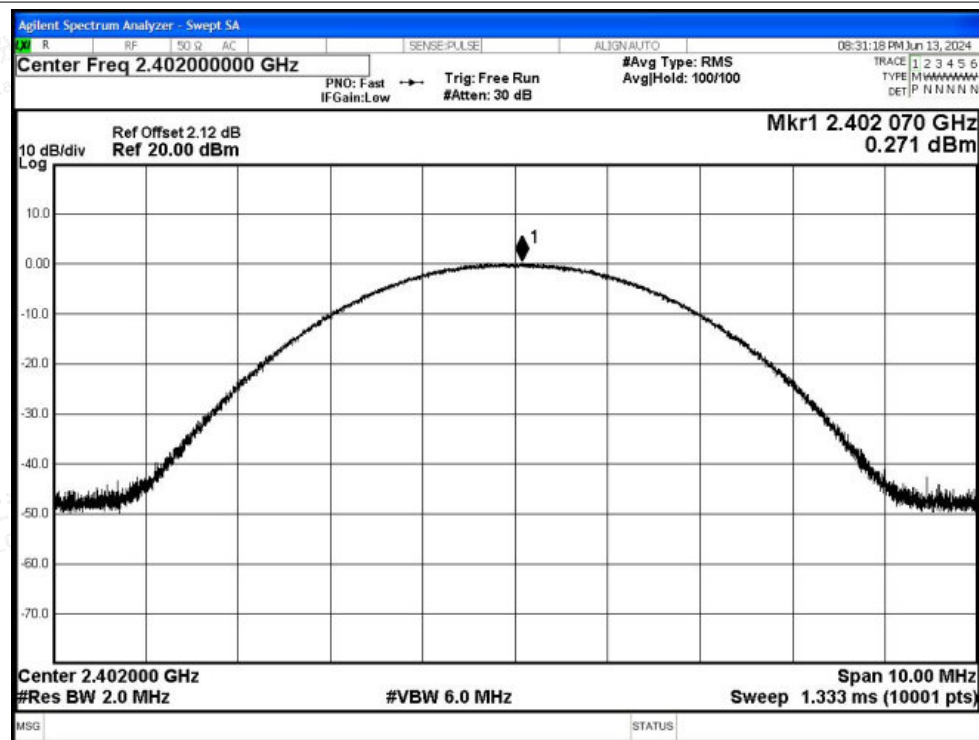




Power NVNT 1-DH5 2480MHz Ant1

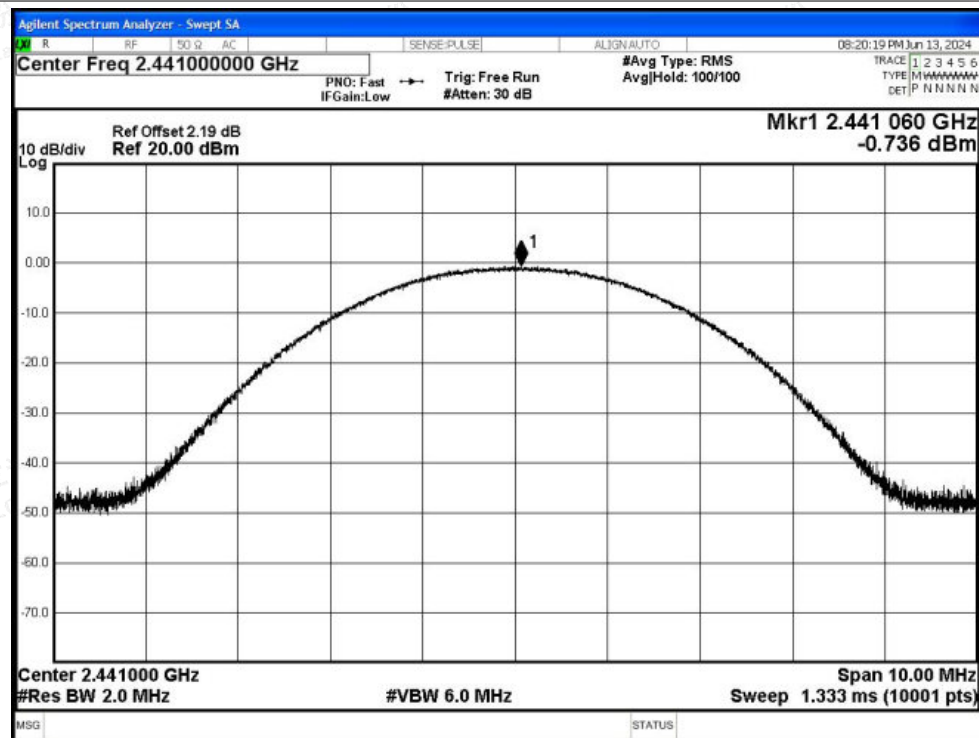


Power NVNT 2-DH5 2402MHz Ant1

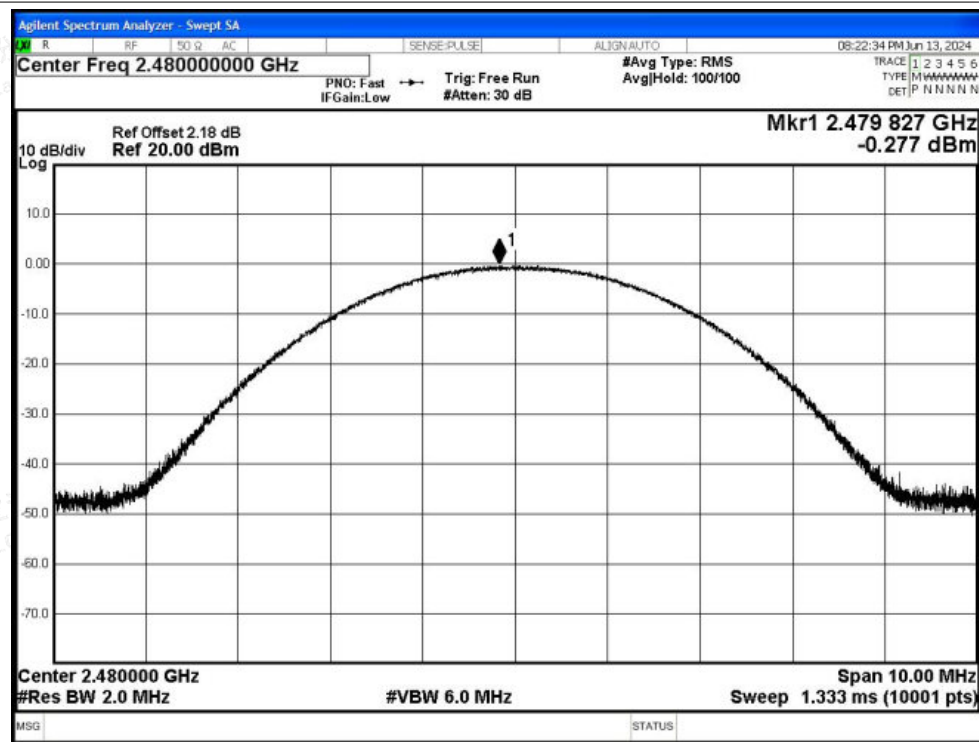




Power NVNT 2-DH5 2441MHz Ant1

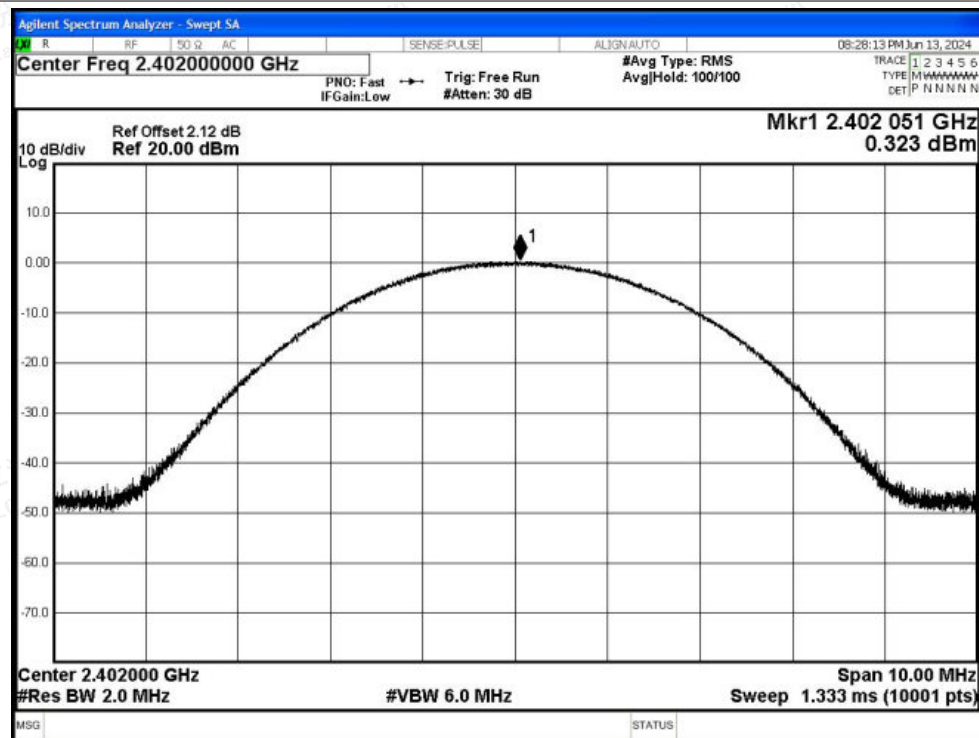


Power NVNT 2-DH5 2480MHz Ant1

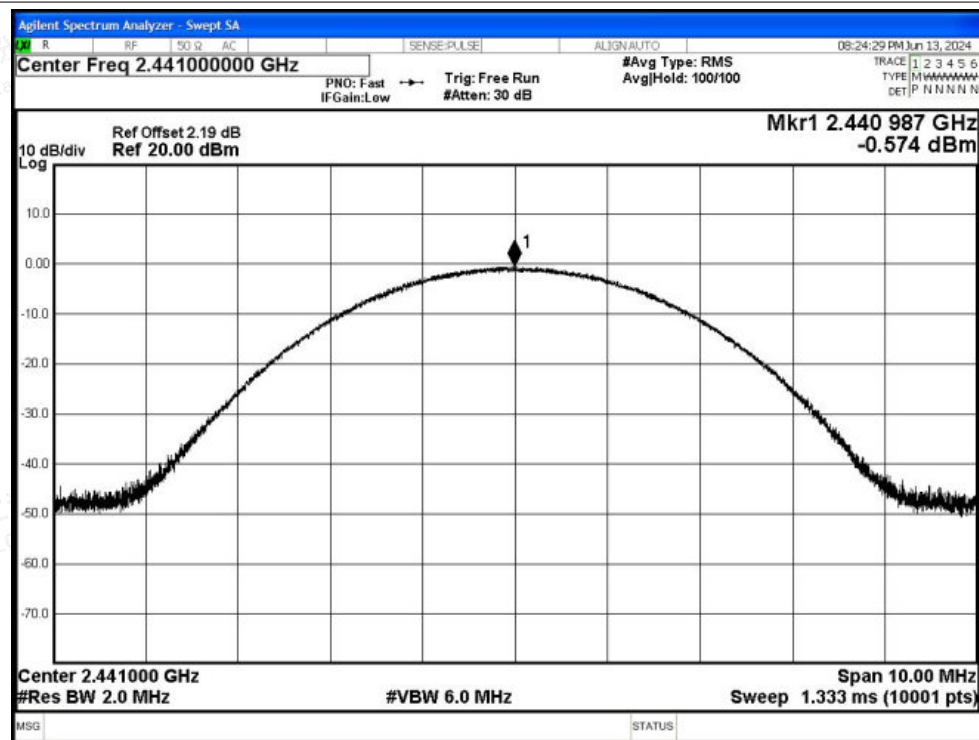


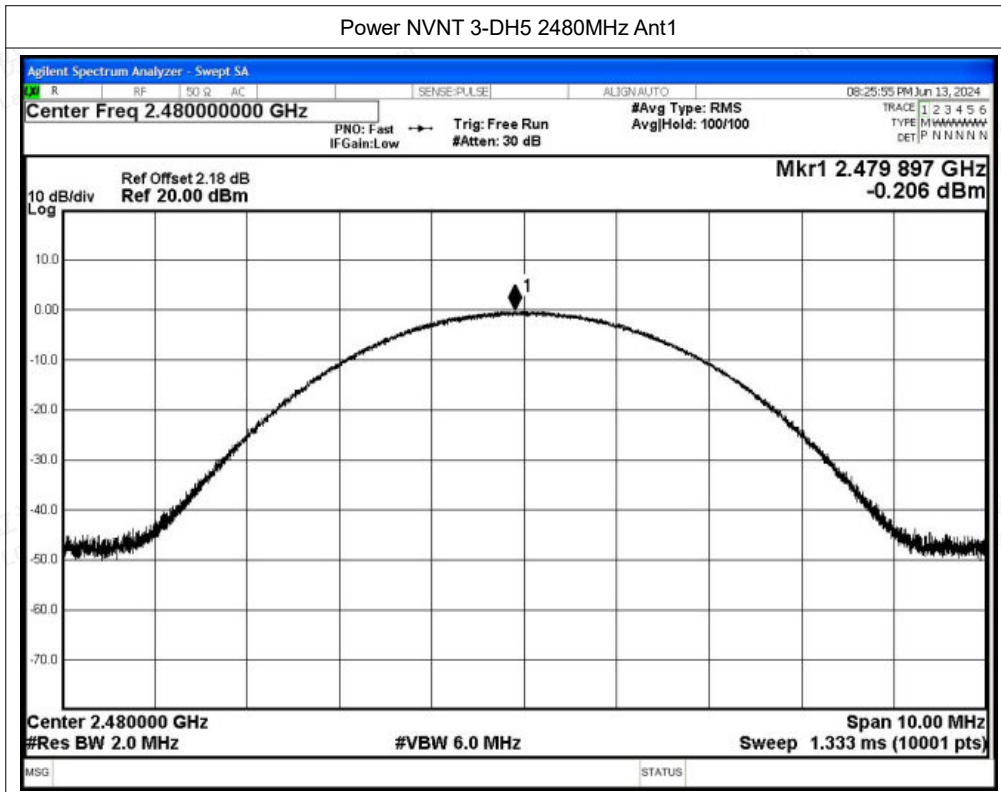


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1







### A.3 Carrier Frequencies Separation

| Condition | Mode  | Antenna | Hopping Freq1 (MHz) | Hopping Freq2 (MHz) | HFS (MHz) | Limit (MHz) | Verdict |
|-----------|-------|---------|---------------------|---------------------|-----------|-------------|---------|
| NVNT      | 1-DH5 | Ant1    | 2401.966            | 2402.972            | 1.006     | 0.686       | Pass    |
| NVNT      | 2-DH5 | Ant1    | 2401.836            | 2403.012            | 1.176     | 0.875       | Pass    |
| NVNT      | 3-DH5 | Ant1    | 2402.16             | 2403.146            | 0.986     | 0.861       | Pass    |



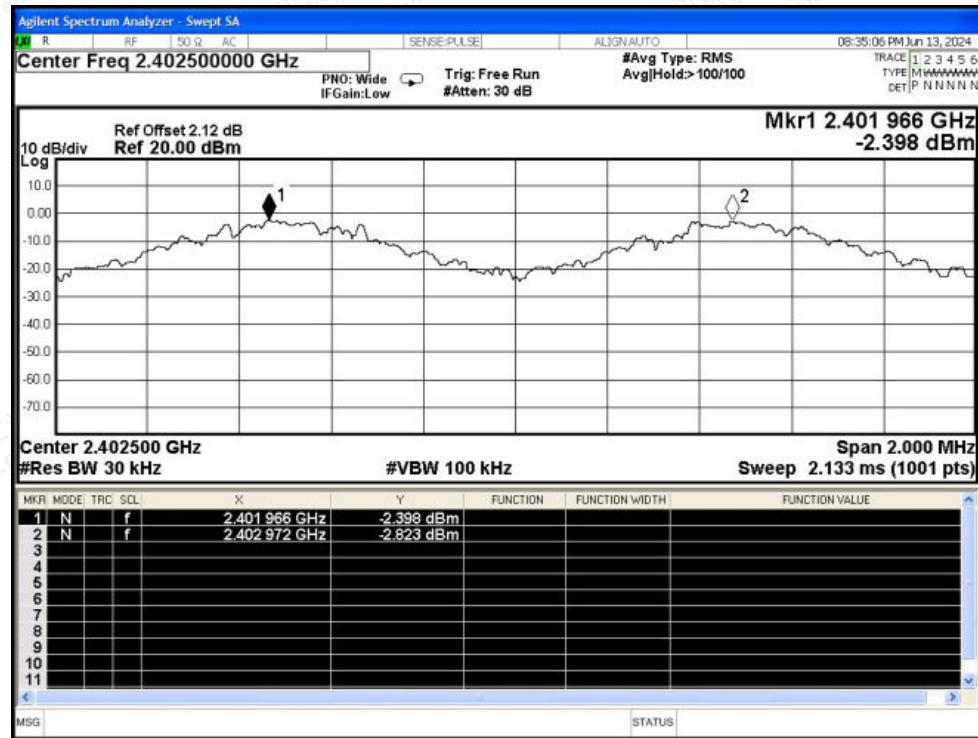
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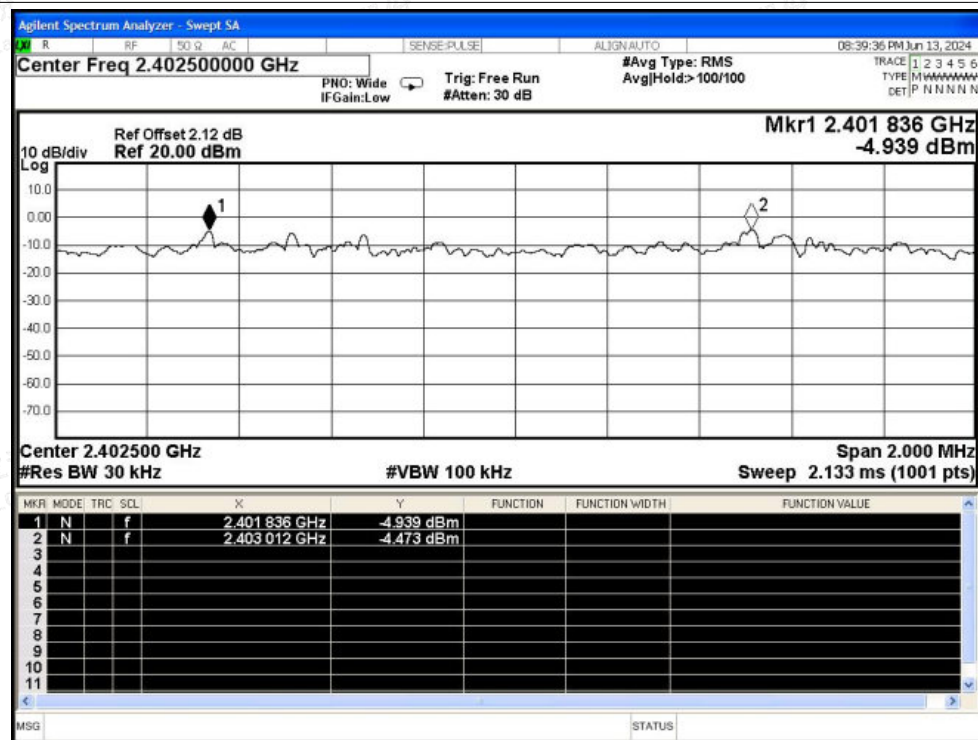


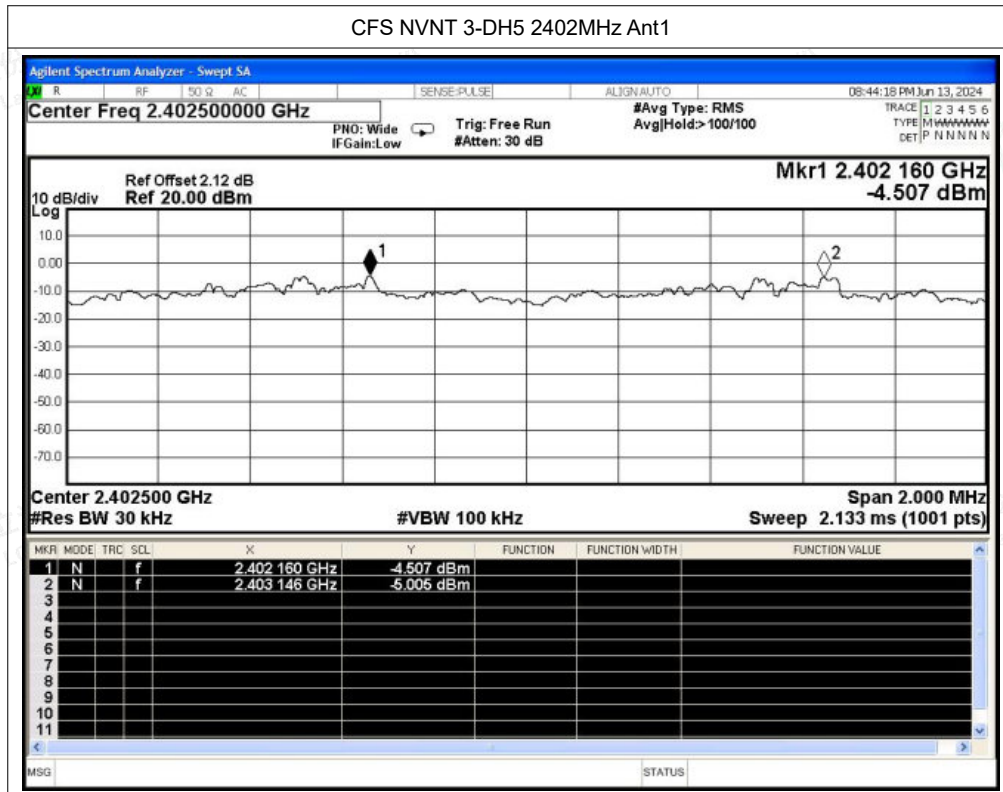
## Test Graphs

## 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<br>Time (ms) | Burst<br>Count | Period Time<br>(ms) | Limit<br>(ms) | Verdict |
|-----------|-------|--------------------|---------|--------------------|--------------------------|----------------|---------------------|---------------|---------|
| NVNT      | 1-DH5 | 2402               | Ant1    | 2.881              | 319.791                  | 111            | 31600               | 400           | Pass    |
| NVNT      | 2-DH5 | 2402               | Ant1    | 2.88               | 302.4                    | 105            | 31600               | 400           | Pass    |
| NVNT      | 3-DH5 | 2402               | Ant1    | 2.886              | 311.688                  | 108            | 31600               | 400           | Pass    |

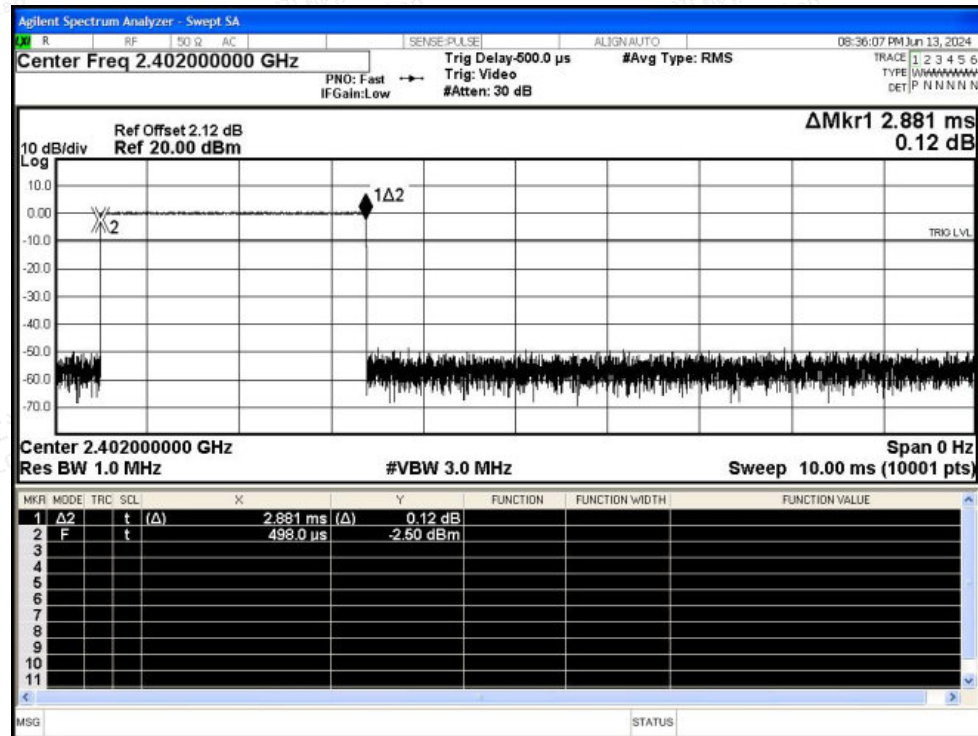


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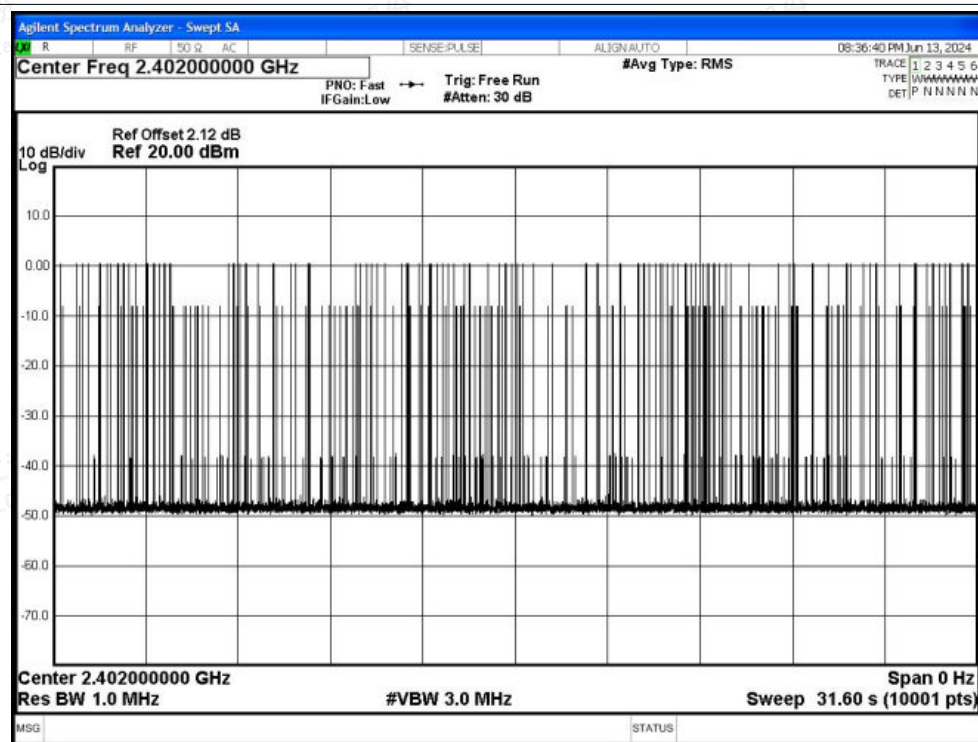


## Test Graphs

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

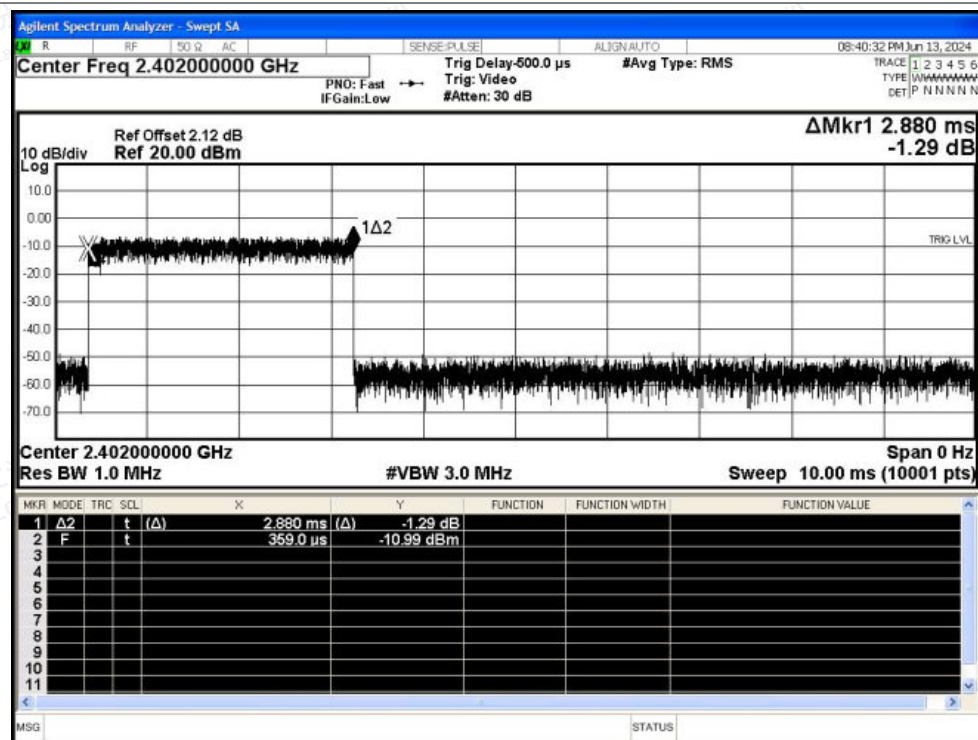


## Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

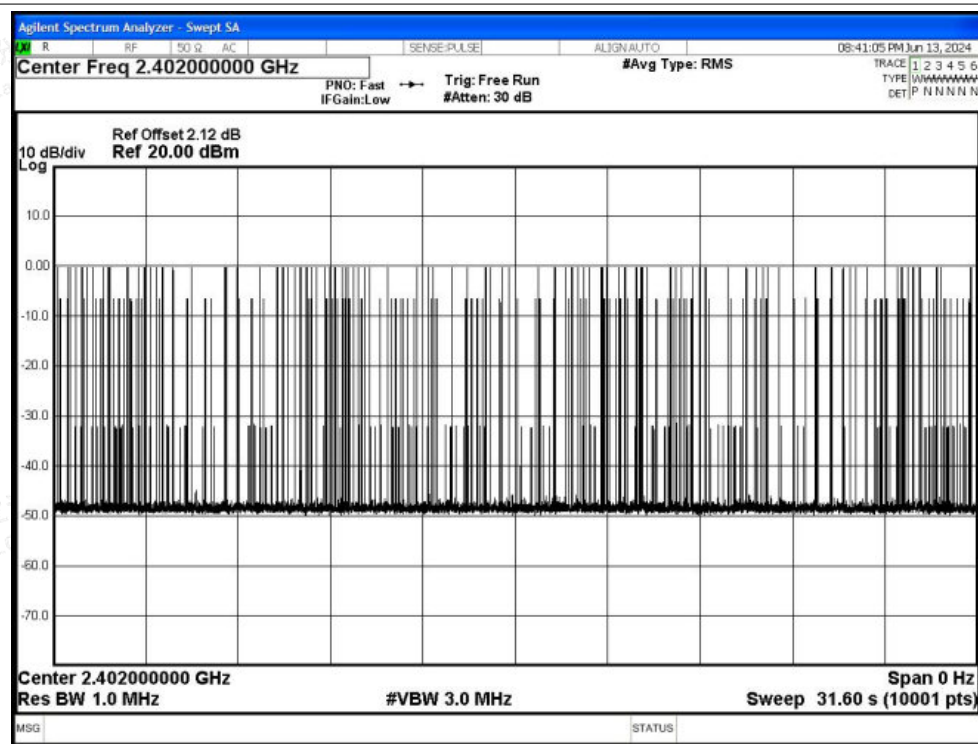




## Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



## Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



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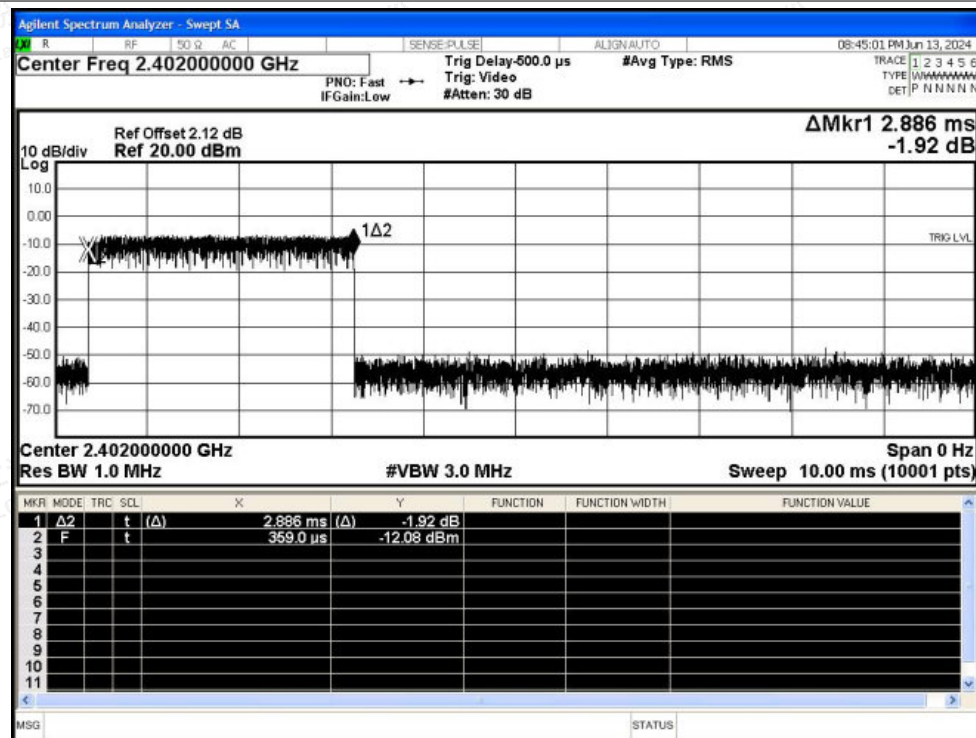
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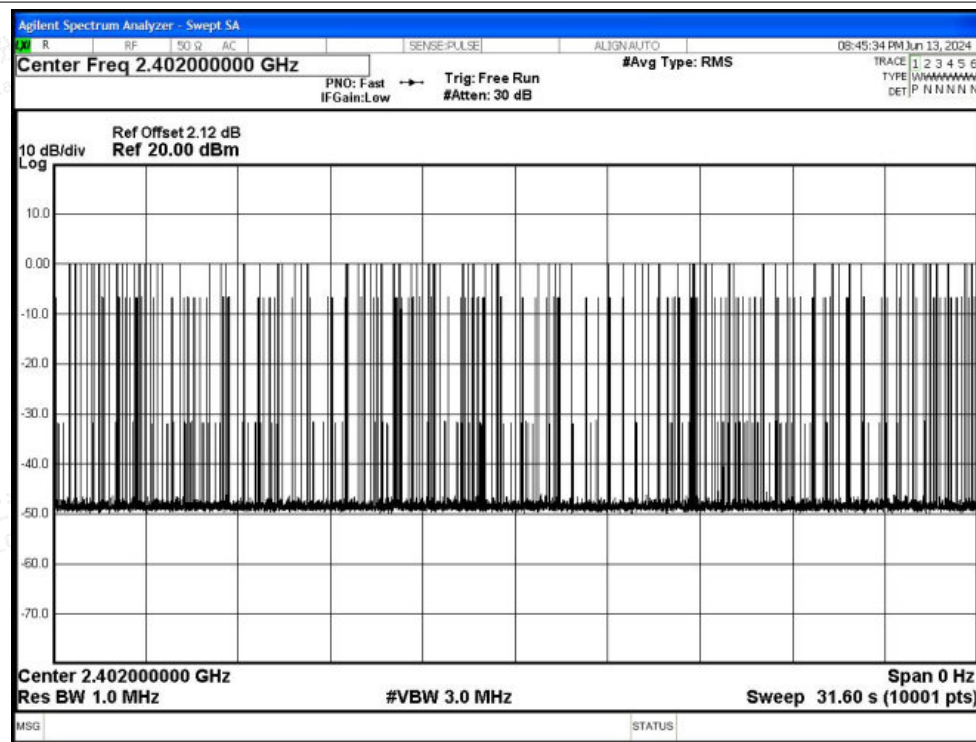




## Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



## Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated







## 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    |

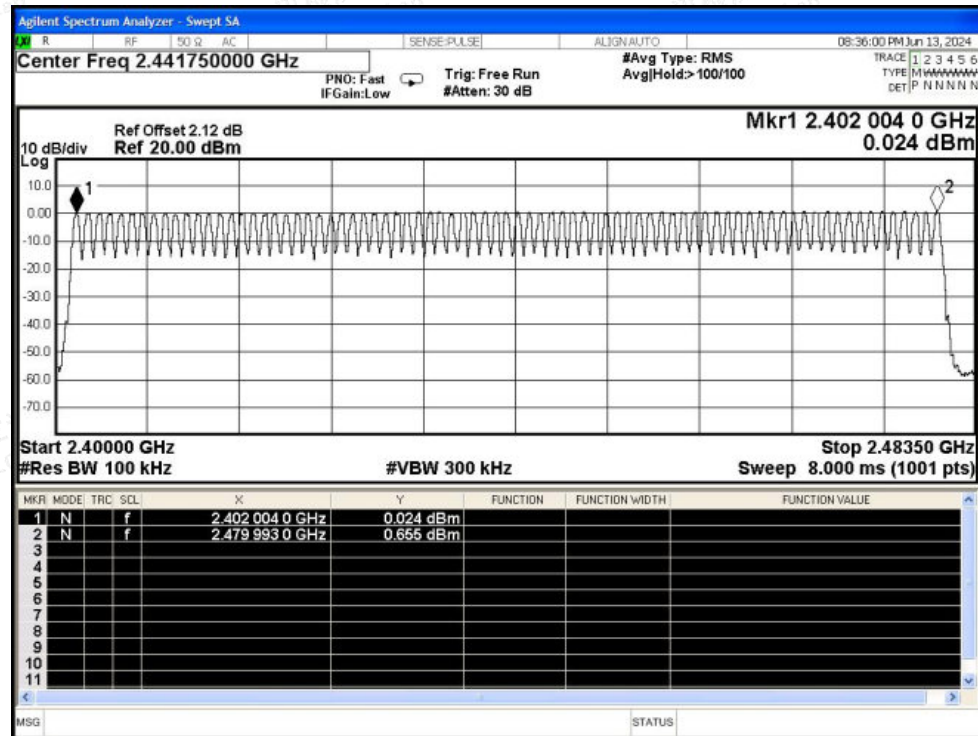


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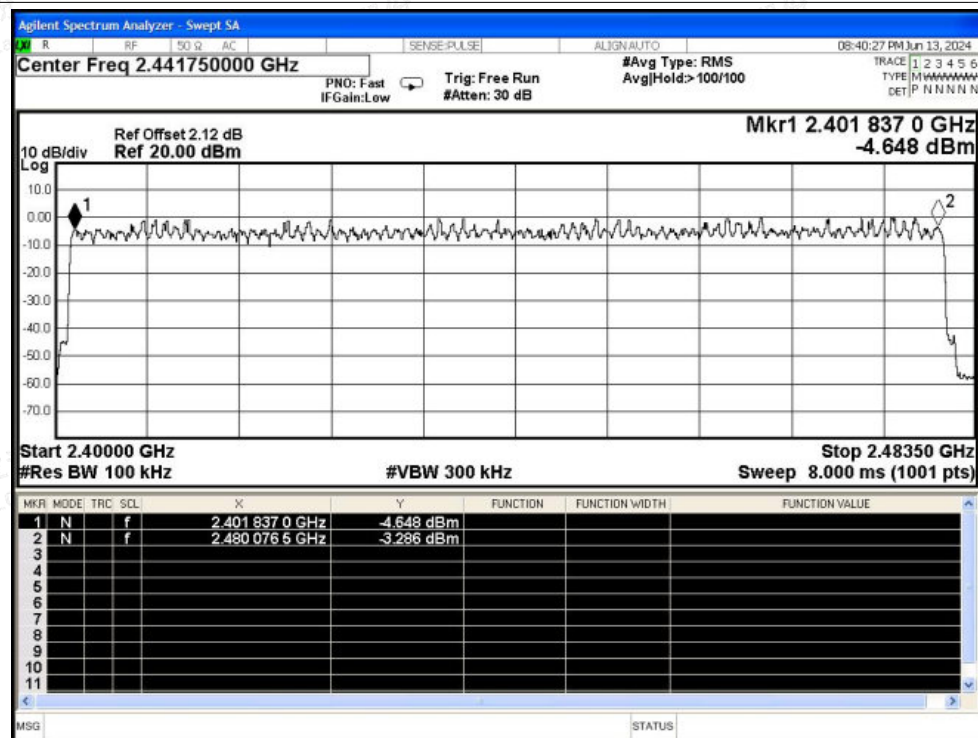


## Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

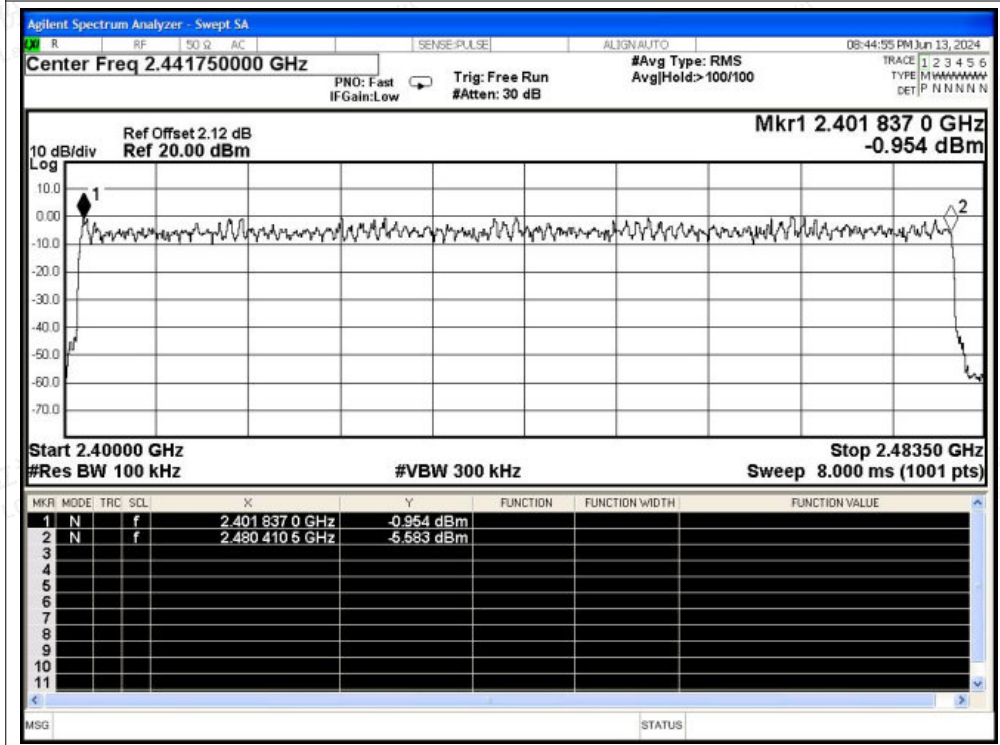


Hopping No. NVNT 2-DH5 2402MHz Ant1





Hopping No. NVNT 3-DH5 2402MHz Ant1





## A.6 Band Edge

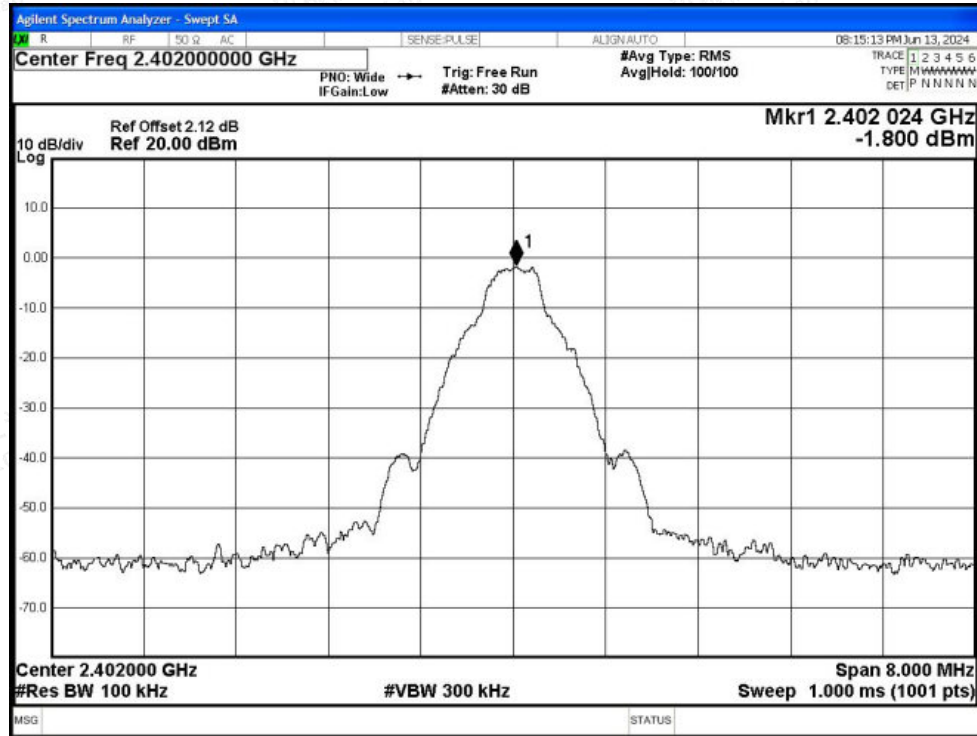
| Condition | Mode  | Frequency (MHz) | Antenna | Hopping Mode | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|-------|-----------------|---------|--------------|-----------------|-------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | No-Hopping   | -55.28          | -20         | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | No-Hopping   | -56.2           | -20         | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | No-Hopping   | -55.55          | -20         | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | No-Hopping   | -55.36          | -20         | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | No-Hopping   | -52.44          | -20         | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | No-Hopping   | -55.35          | -20         | Pass    |



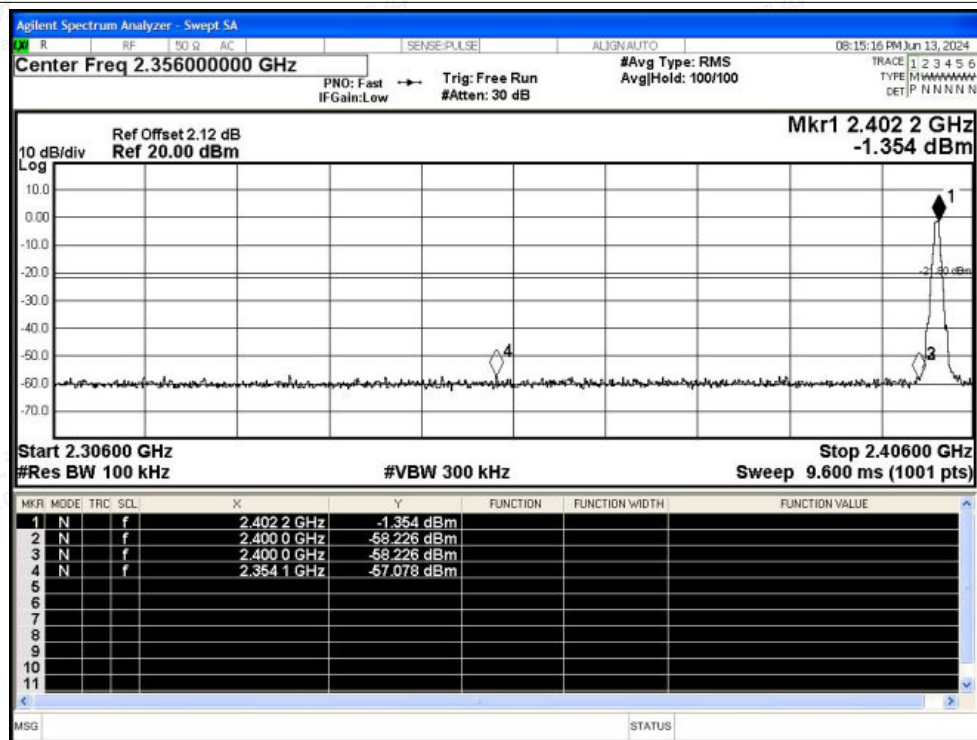


## Test Graphs

## Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



## Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



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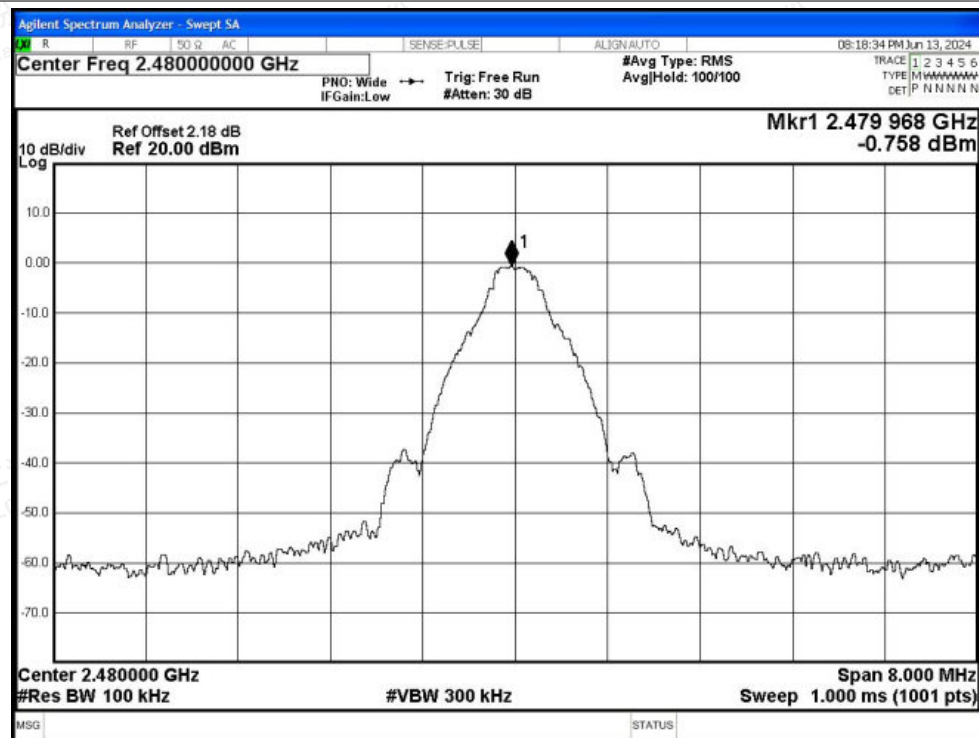
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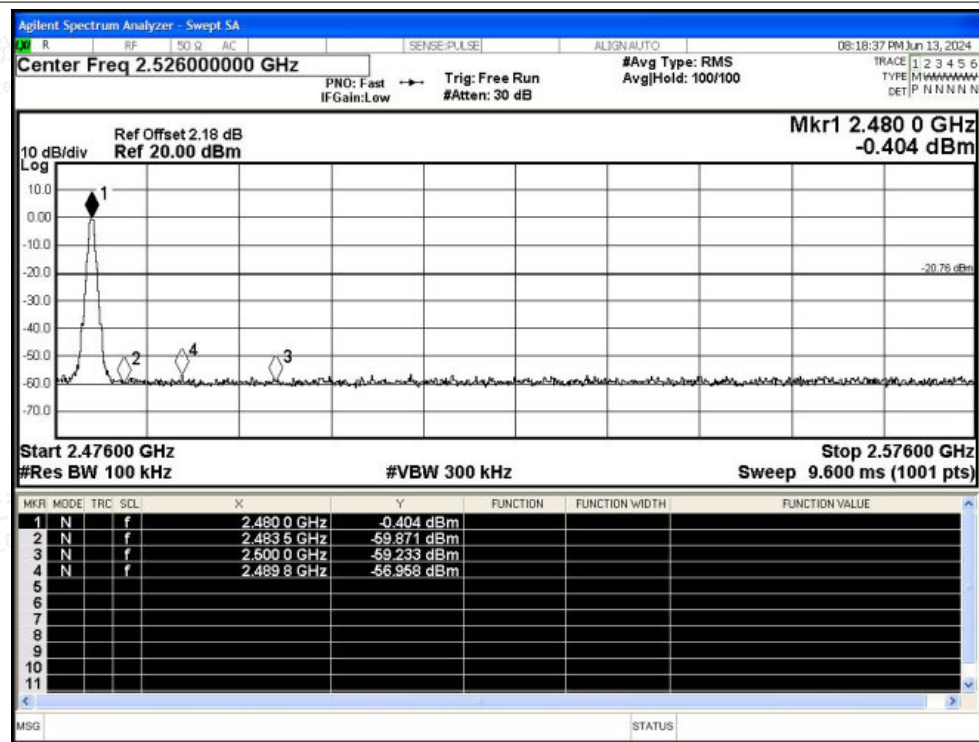




## Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

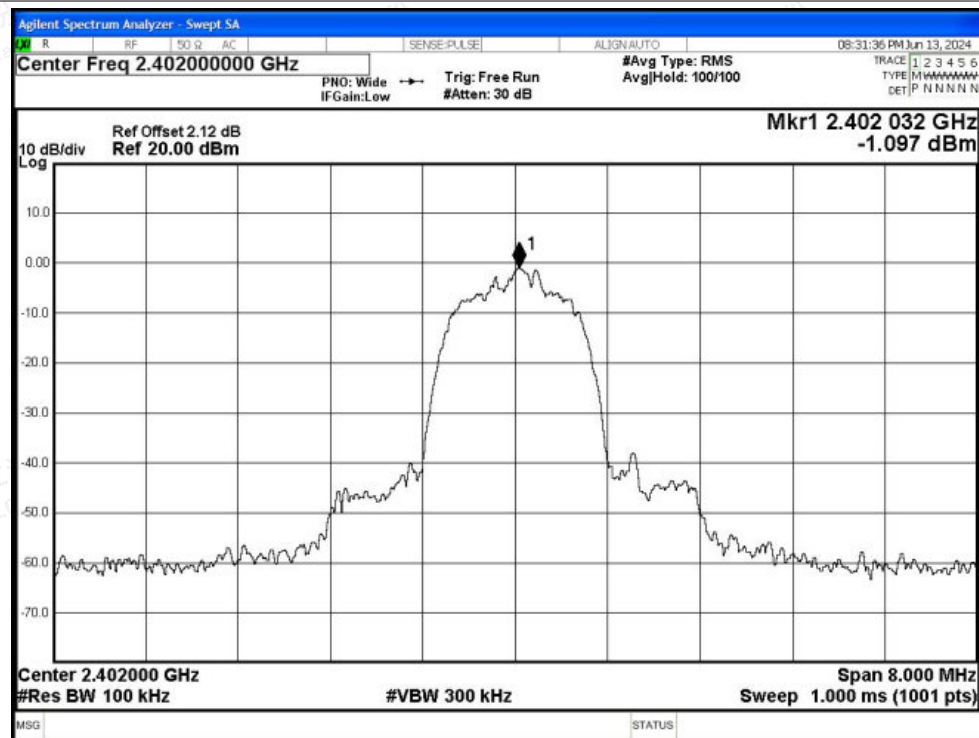


## Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

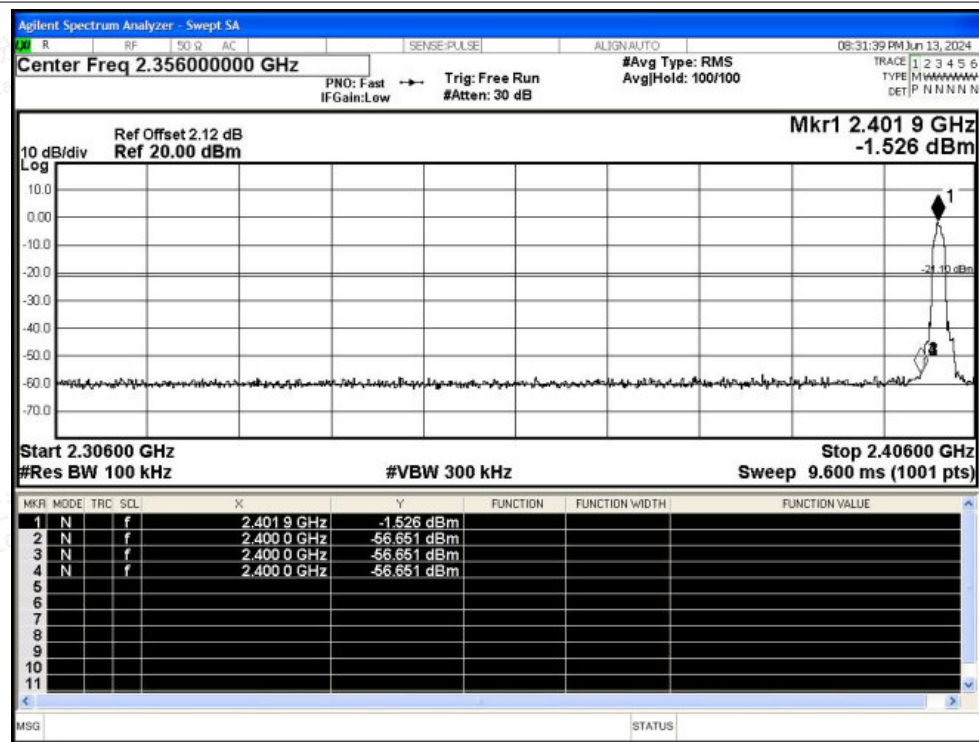




## Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



## Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



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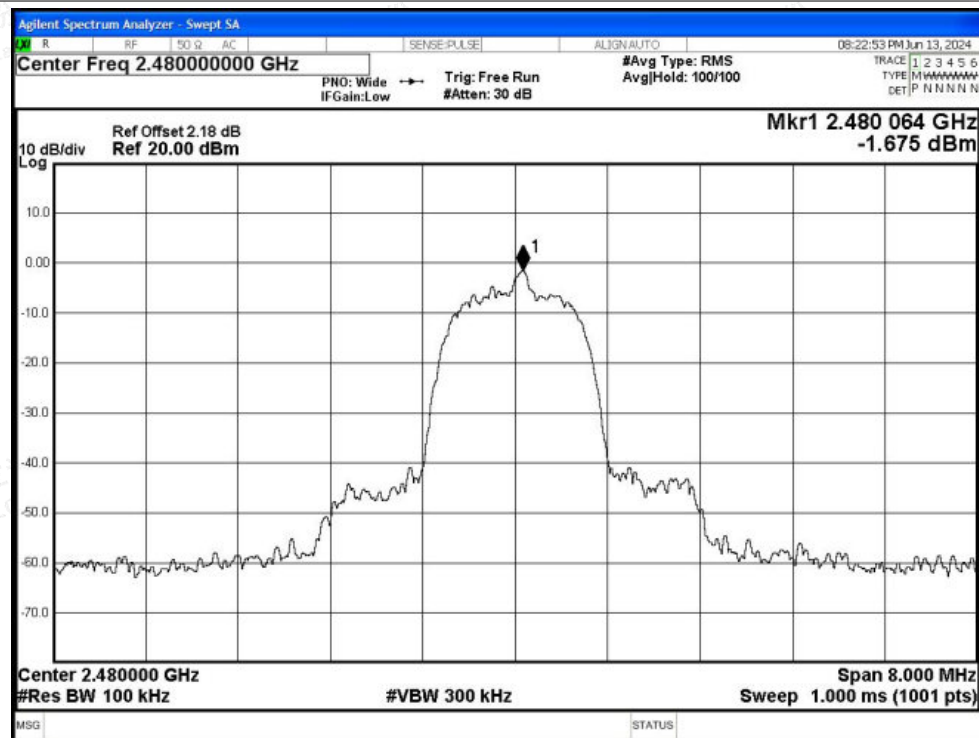
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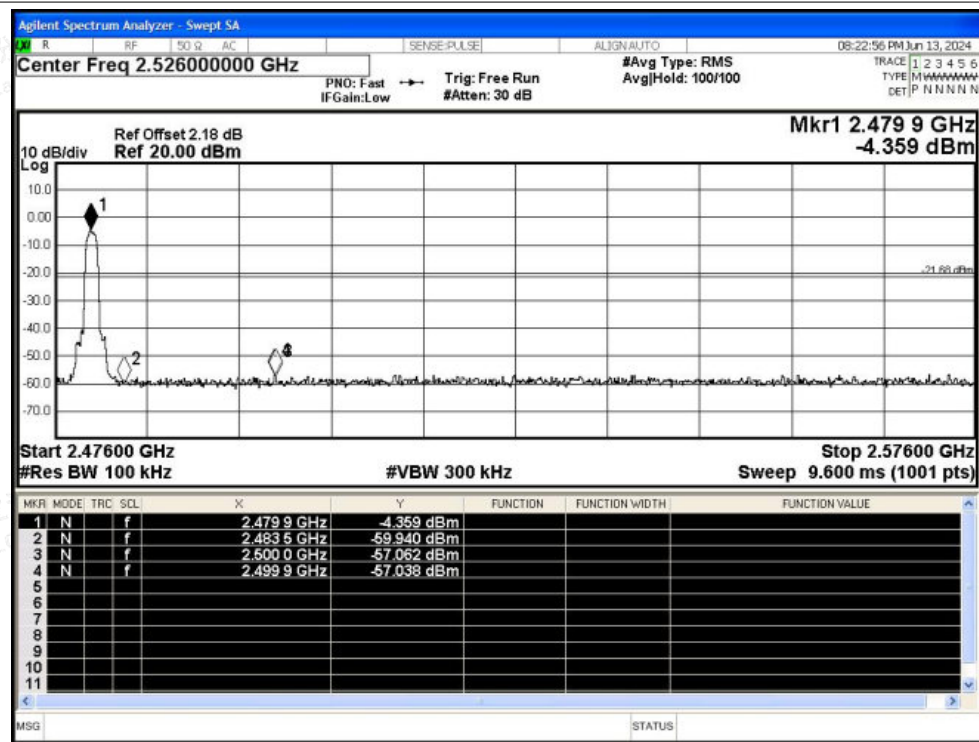
Scan code to check authenticity



## Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

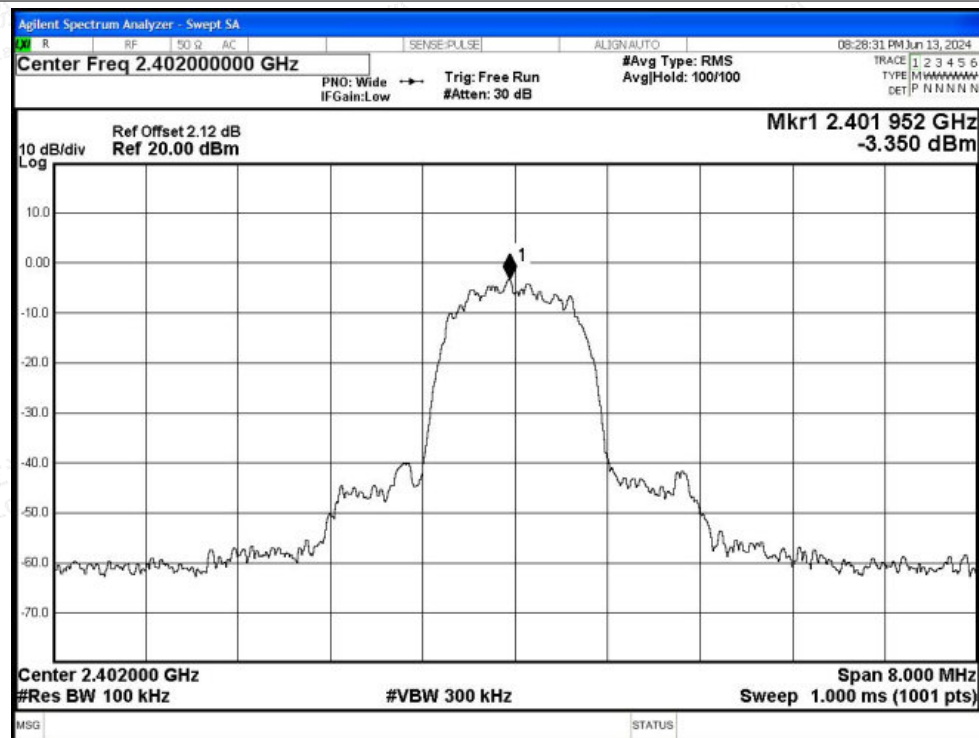


## Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

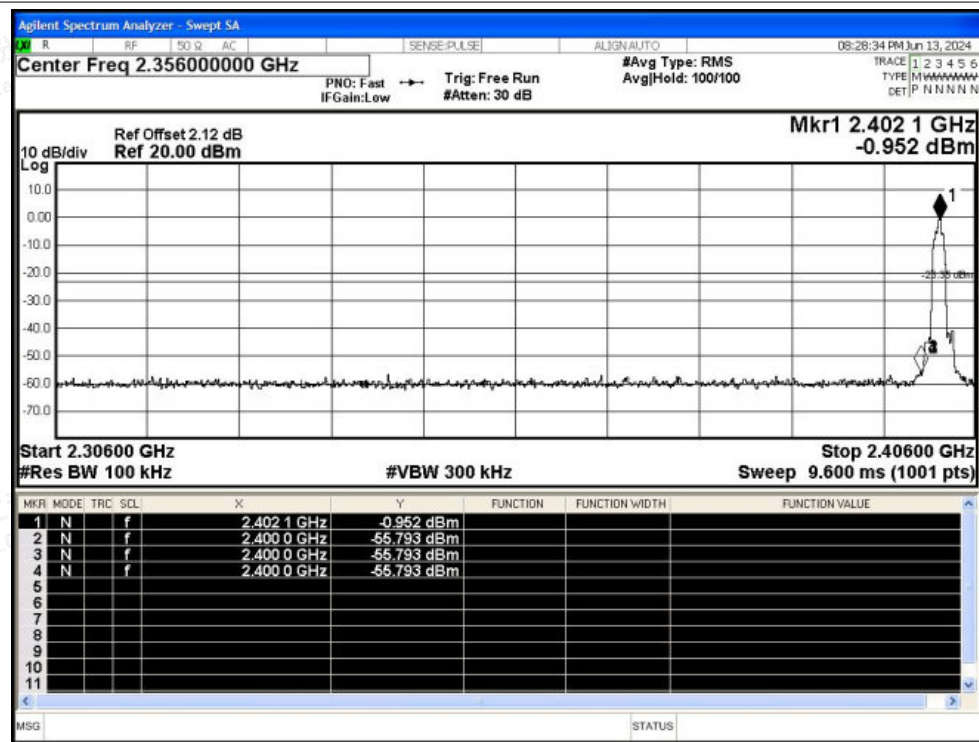




## Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



## Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



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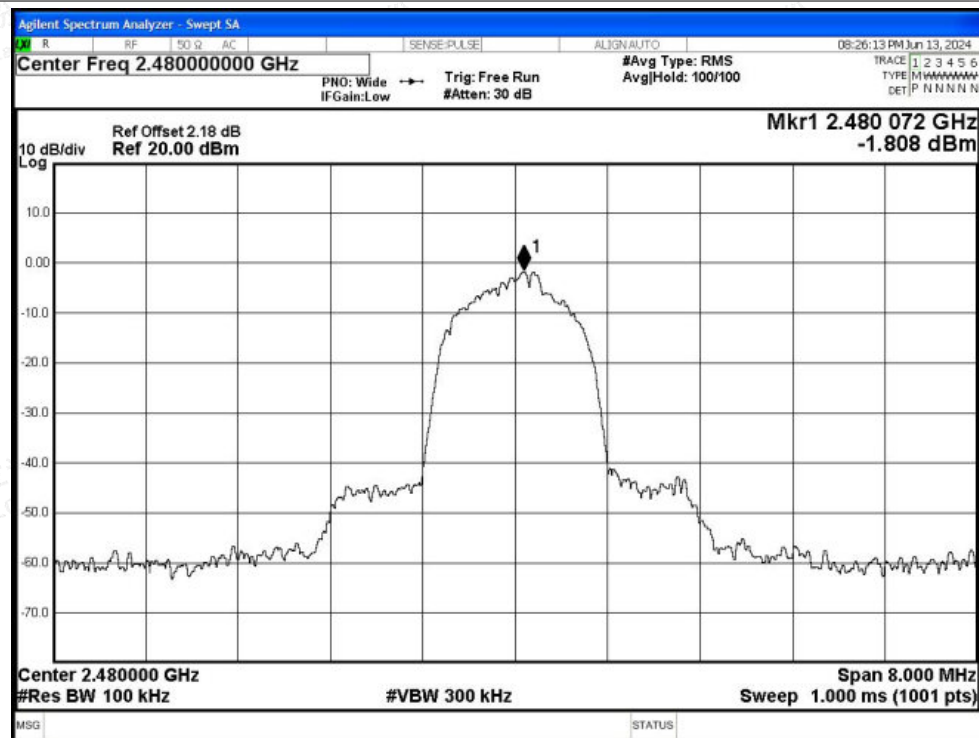
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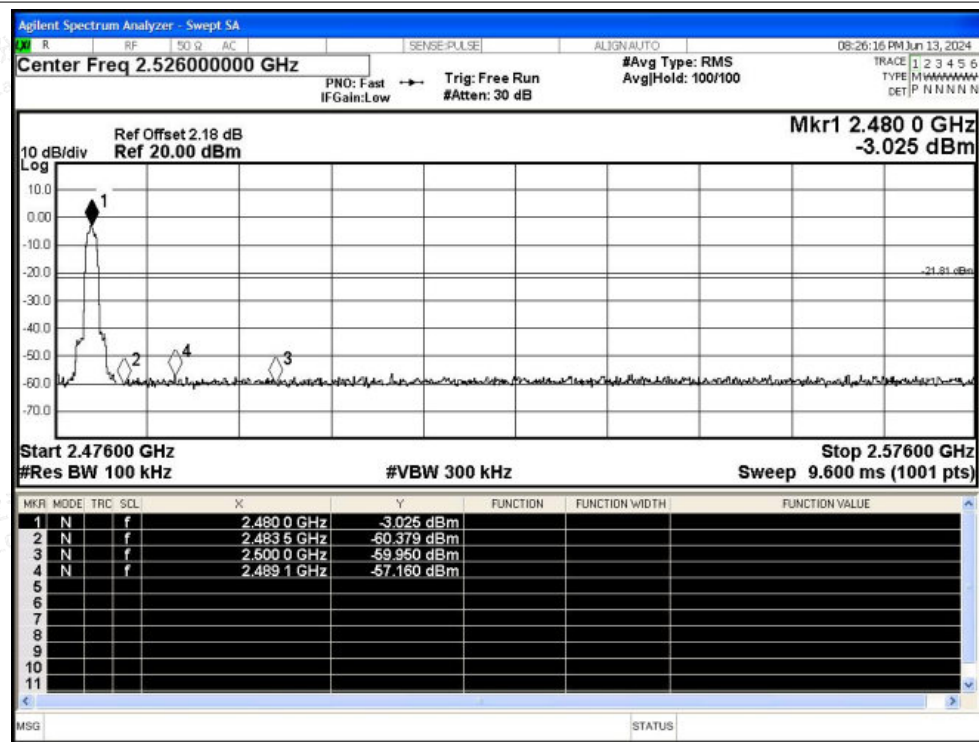




## Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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





## (Hopping)

| Condition | Mode  | Frequency (MHz) | Antenna | Hopping Mode | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|-------|-----------------|---------|--------------|-----------------|-------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | Hopping      | -55.79          | -20         | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | Hopping      | -56.29          | -20         | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | Hopping      | -54.94          | -20         | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | Hopping      | -55.2           | -20         | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | Hopping      | -55.04          | -20         | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | Hopping      | -55.07          | -20         | Pass    |

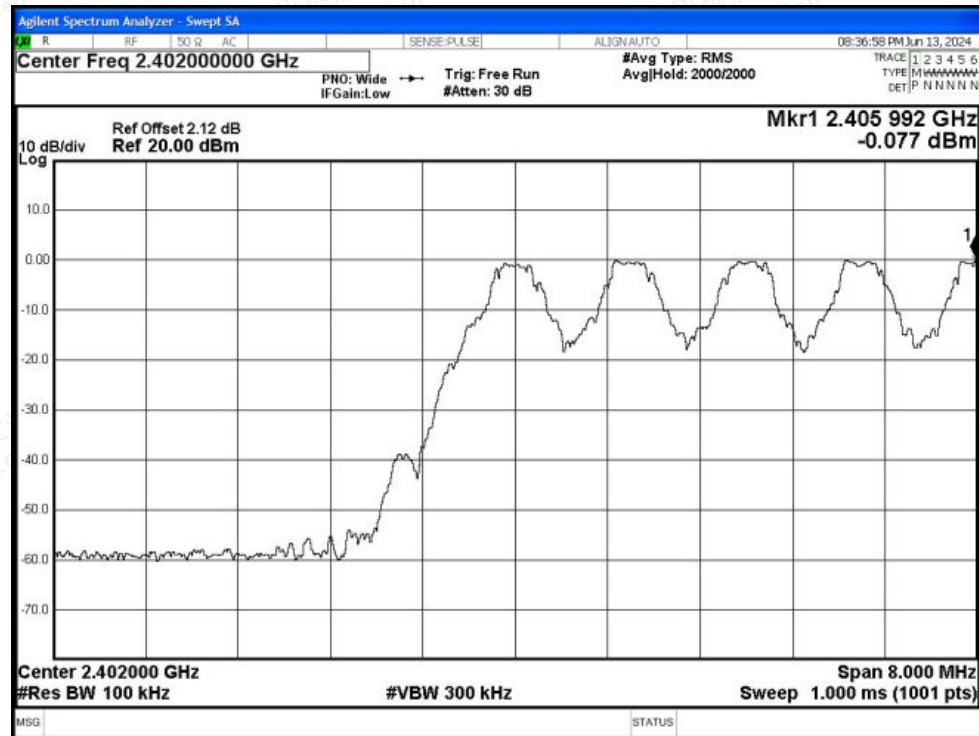




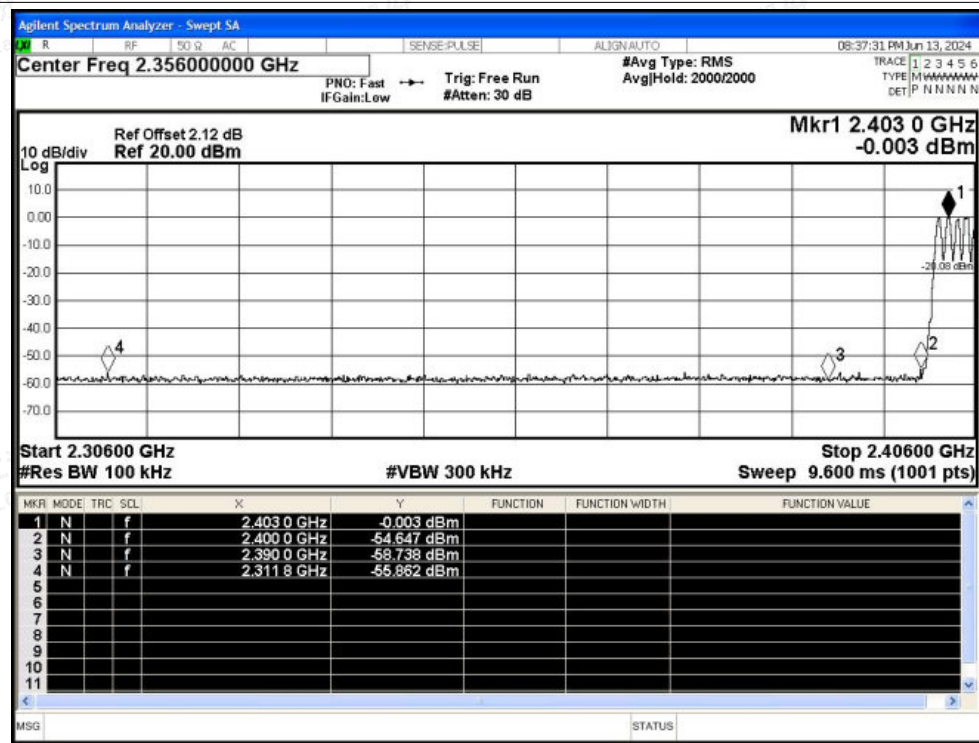


## Test Graphs

## Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



## Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



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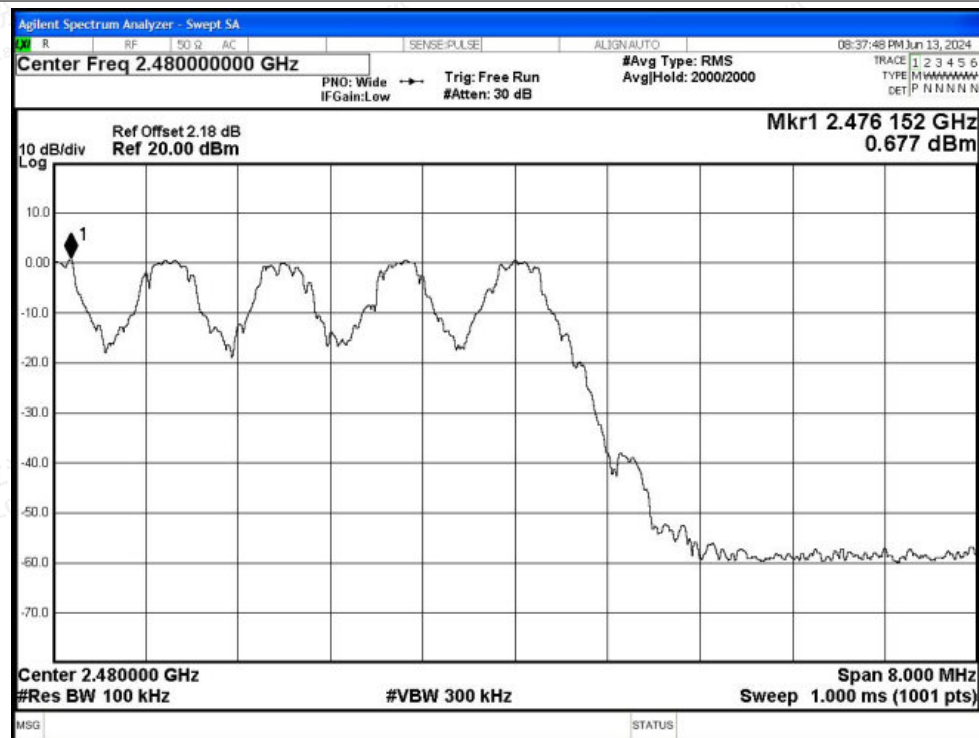
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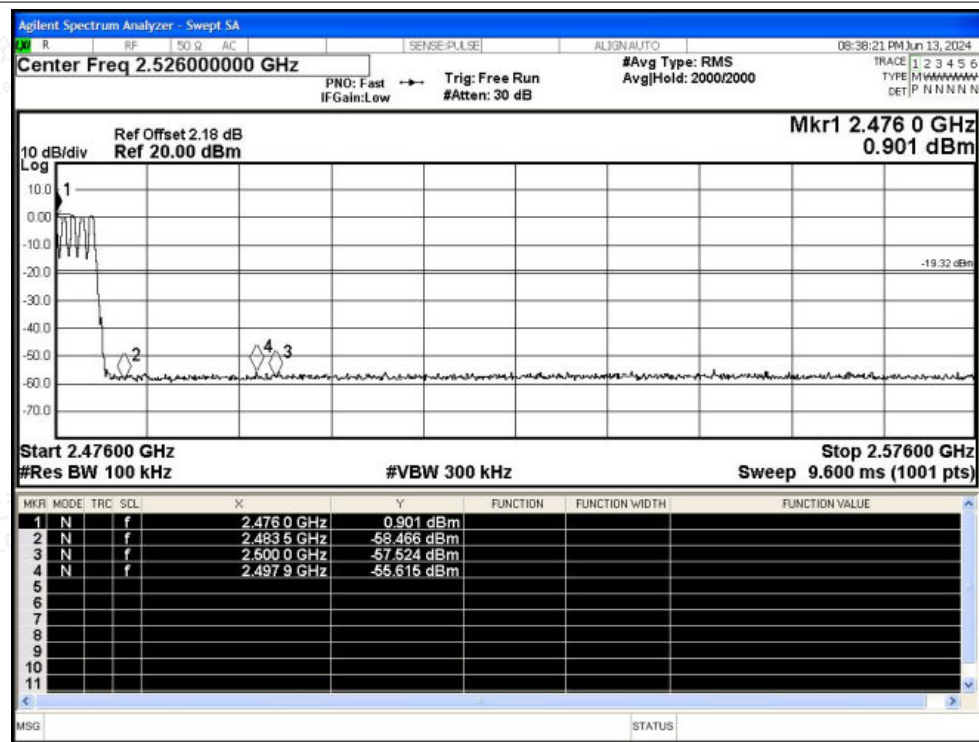
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## Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



## Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



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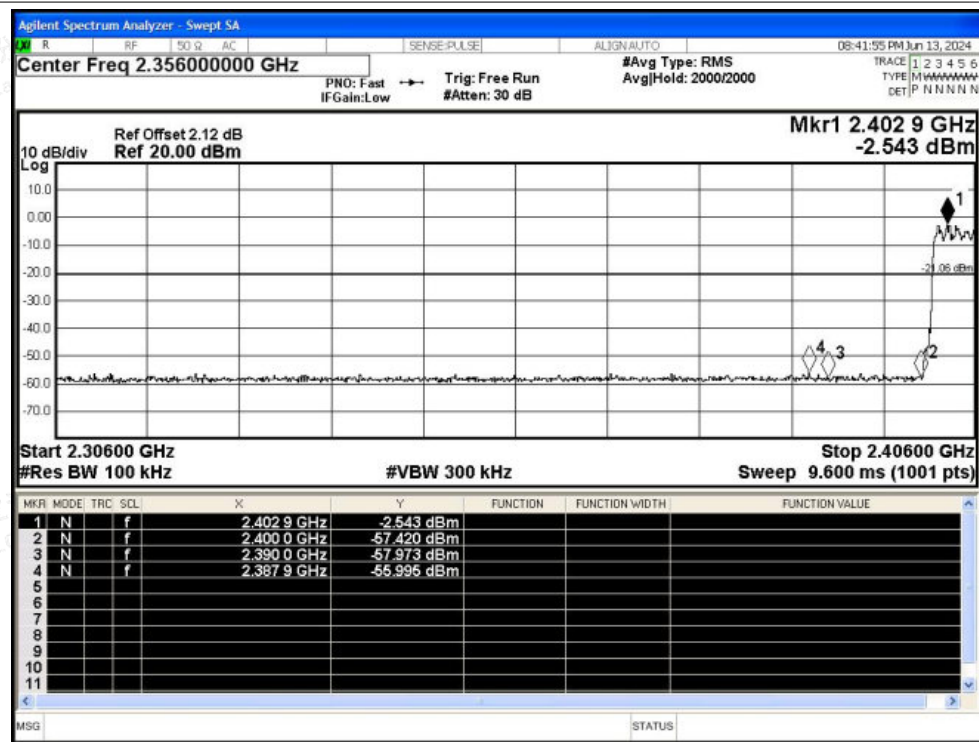
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## Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



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## Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



## Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

