



## Appendix A

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

Product Name: Mibro Earbuds 3

Test Model: XPEJ006

#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 23.8° C   |
| Relative Humidity: | 52.1%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Mening Su |
| Supervised by:     | Li Huan   |





## A.1 -20dB Bandwidth

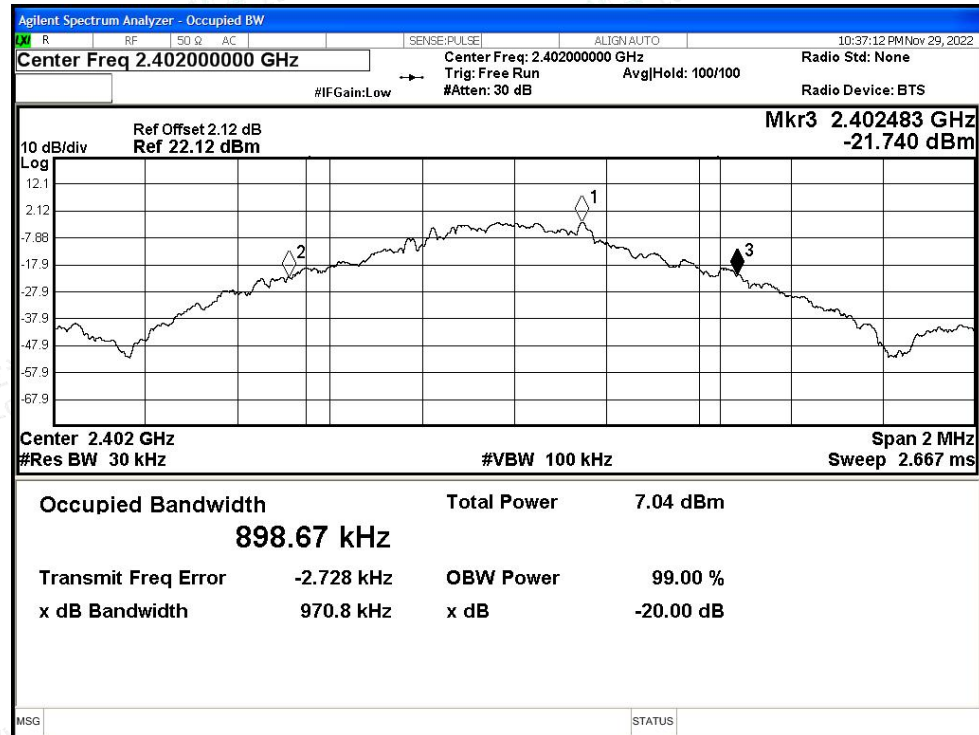
| Condition | Mode  | Frequency (MHz) | Antenna | -20 dB Bandwidth (MHz) | Limit -20 dB Bandwidth (MHz) | Verdict |
|-----------|-------|-----------------|---------|------------------------|------------------------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | 0.971                  | N/A                          | Pass    |
| NVNT      | 1-DH5 | 2441            | Ant1    | 1.022                  | N/A                          | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | 1.004                  | N/A                          | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | 1.312                  | N/A                          | Pass    |
| NVNT      | 2-DH5 | 2441            | Ant1    | 1.284                  | N/A                          | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | 1.311                  | N/A                          | Pass    |



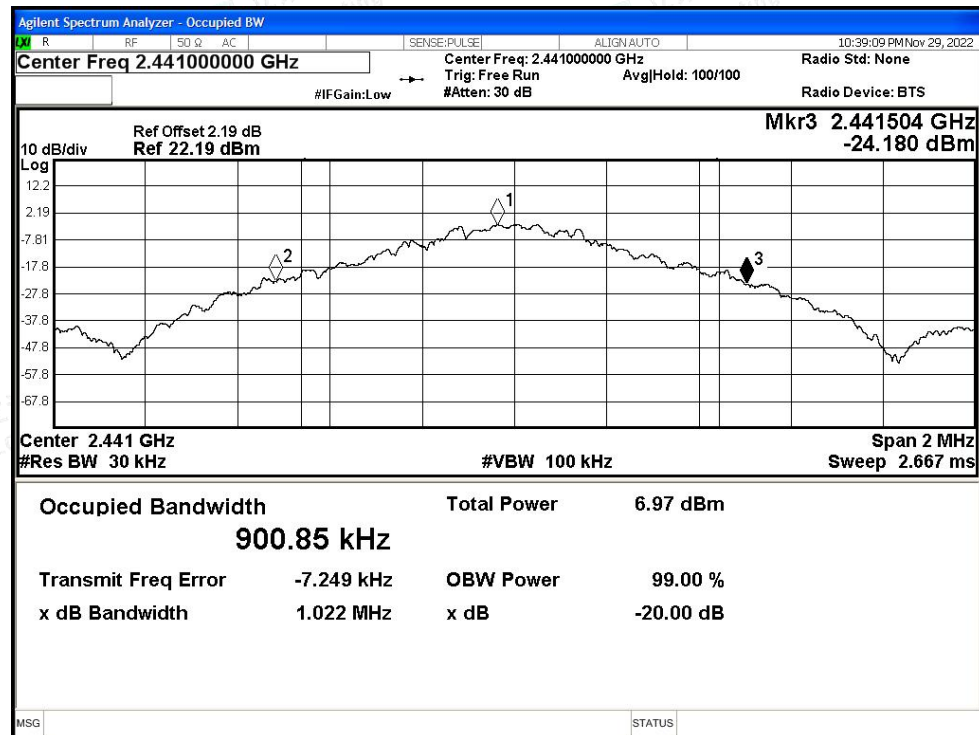


## Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

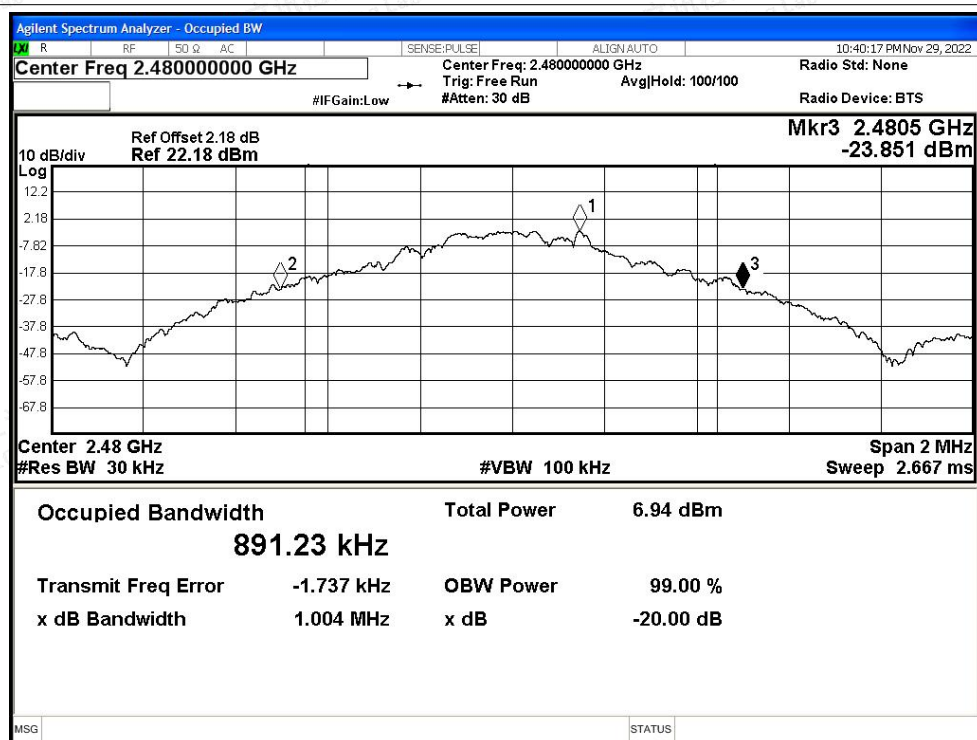


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

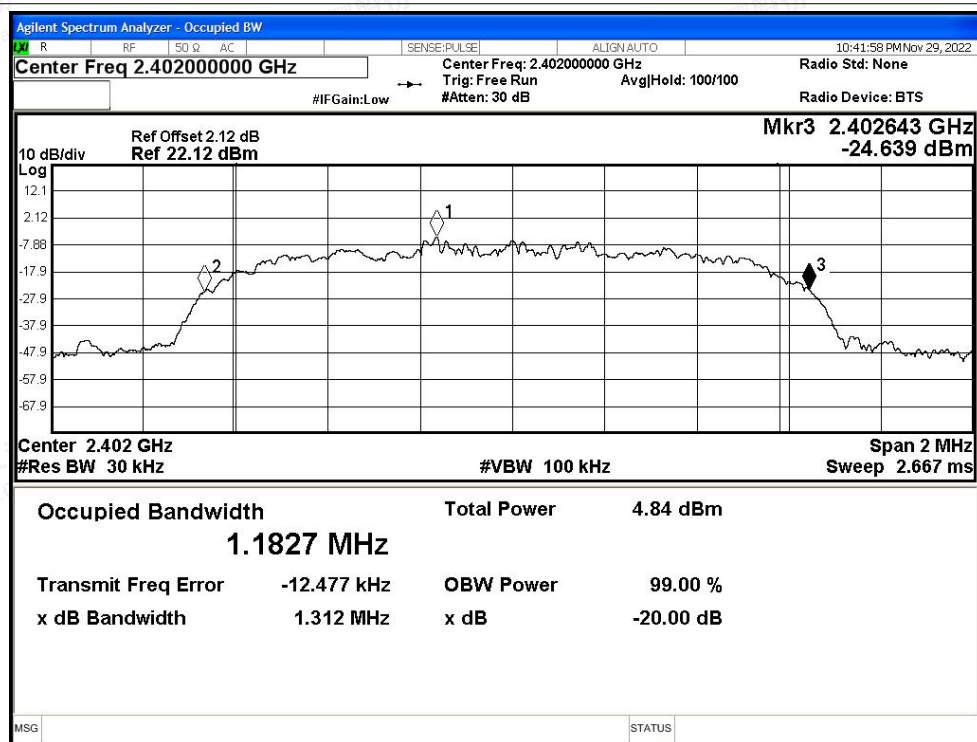




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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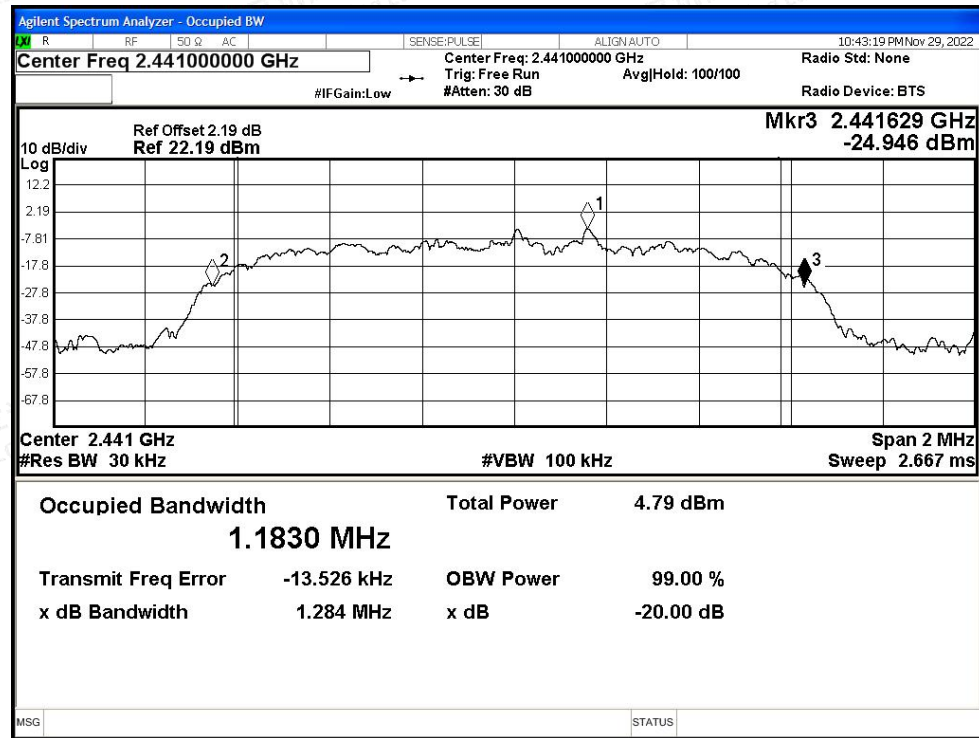
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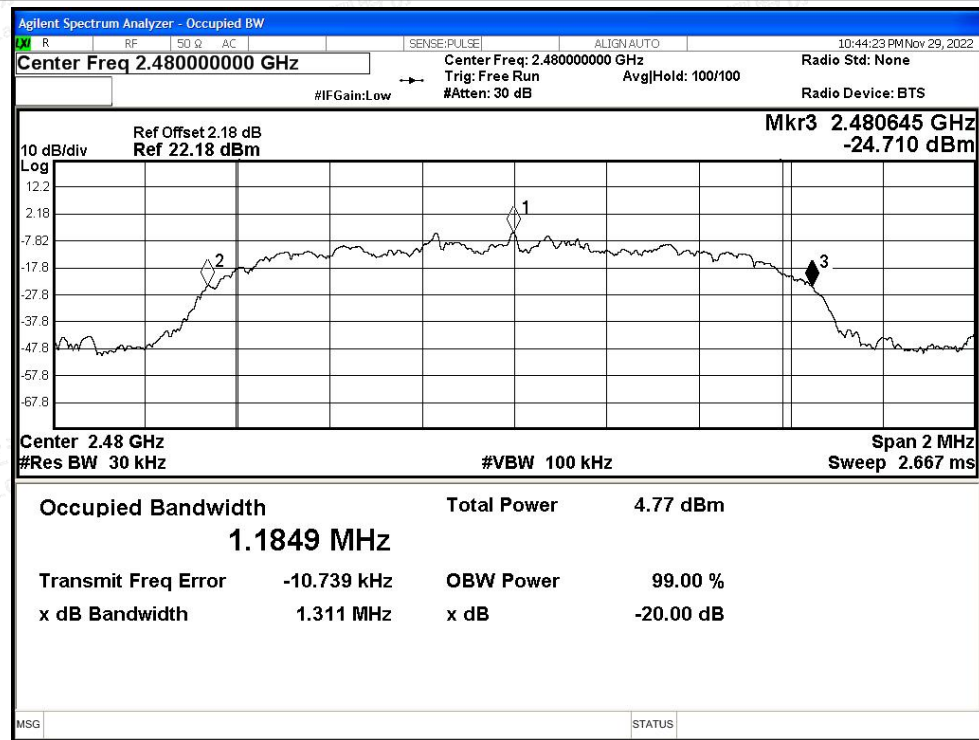
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-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1





## A.2 Maximum Conducted Output Power

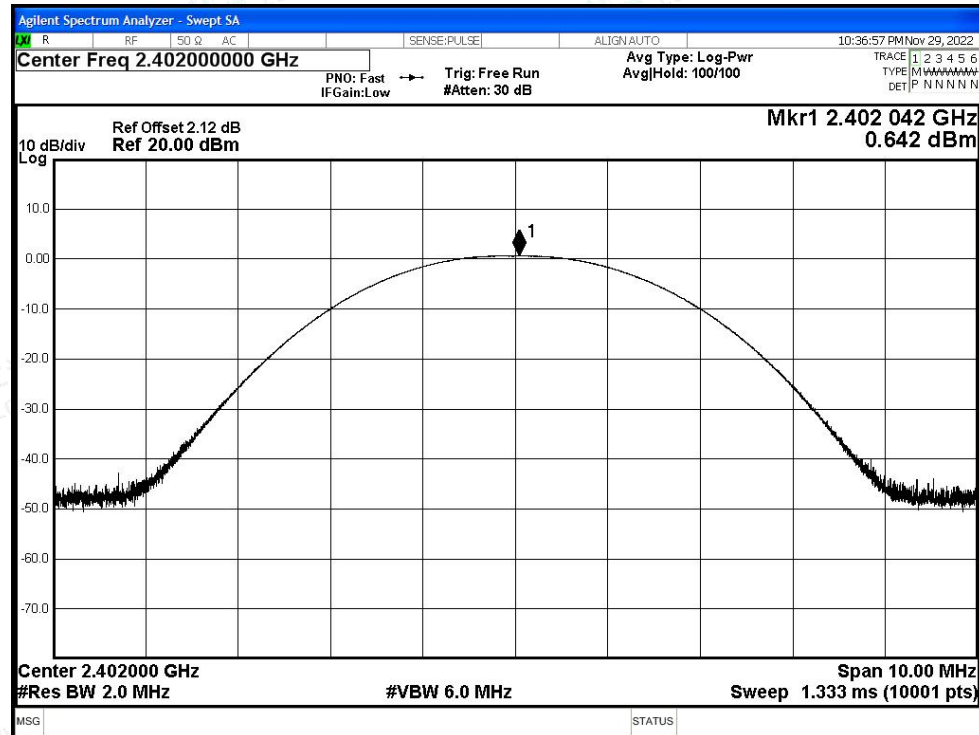
| Condition | Mode  | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|-------|-----------------|---------|-----------------------|-------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | 0.64                  | 21          | Pass    |
| NVNT      | 1-DH5 | 2441            | Ant1    | 0.87                  | 21          | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | 0.56                  | 21          | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | 0.46                  | 21          | Pass    |
| NVNT      | 2-DH5 | 2441            | Ant1    | 0.66                  | 21          | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | 0.34                  | 21          | Pass    |



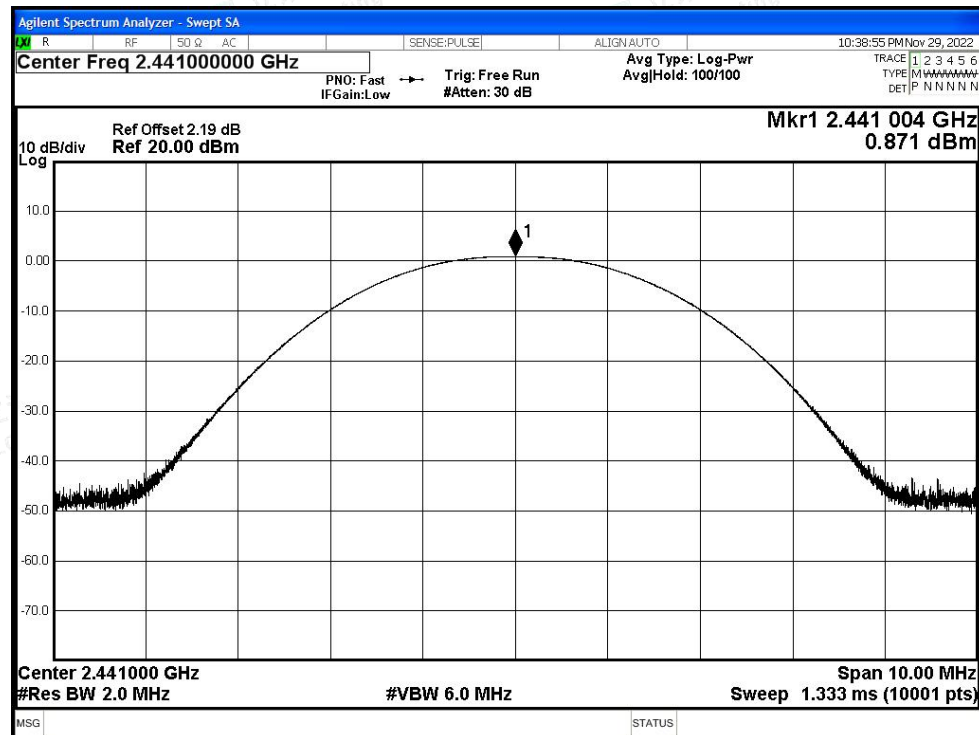


## Test Graphs

## Power NVNT 1-DH5 2402MHz Ant1



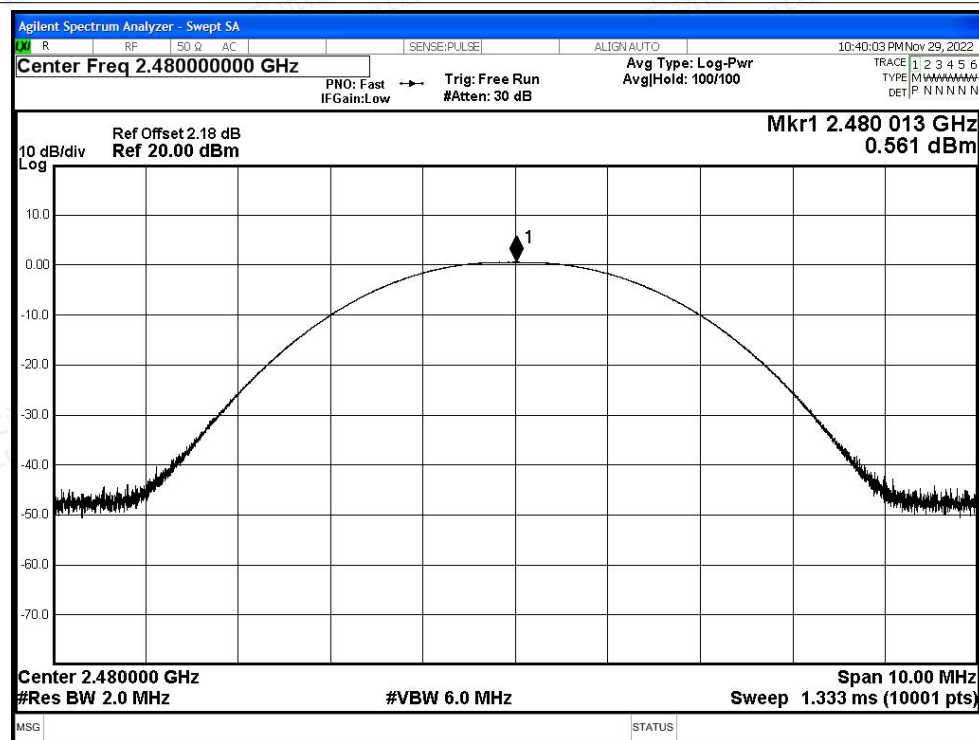
## Power NVNT 1-DH5 2441MHz Ant1



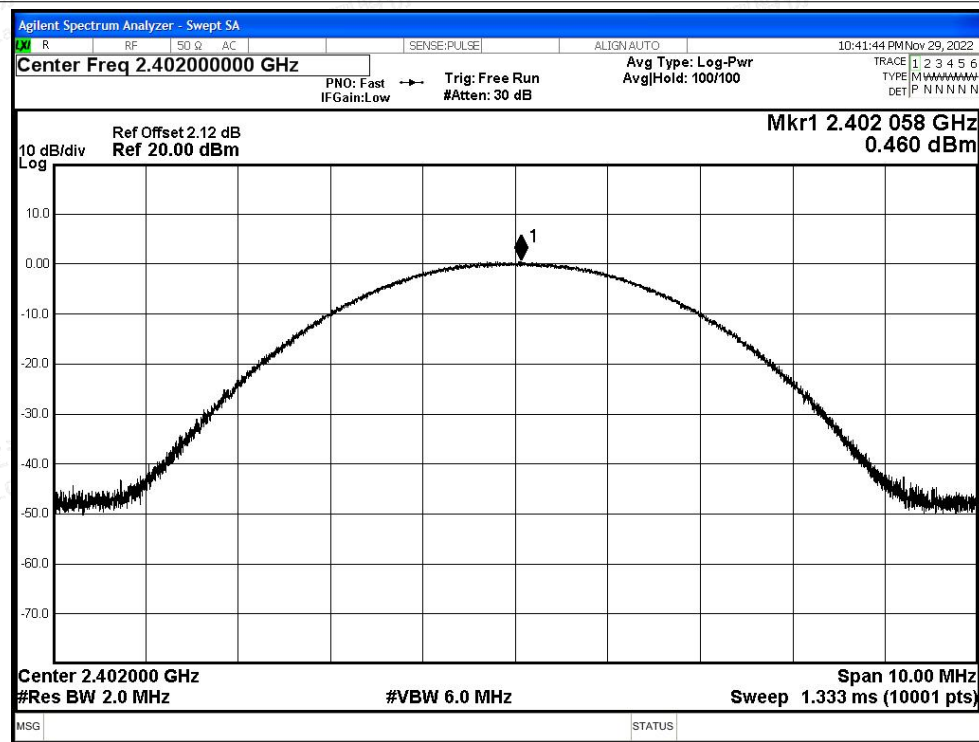




## Power NVNT 1-DH5 2480MHz Ant1



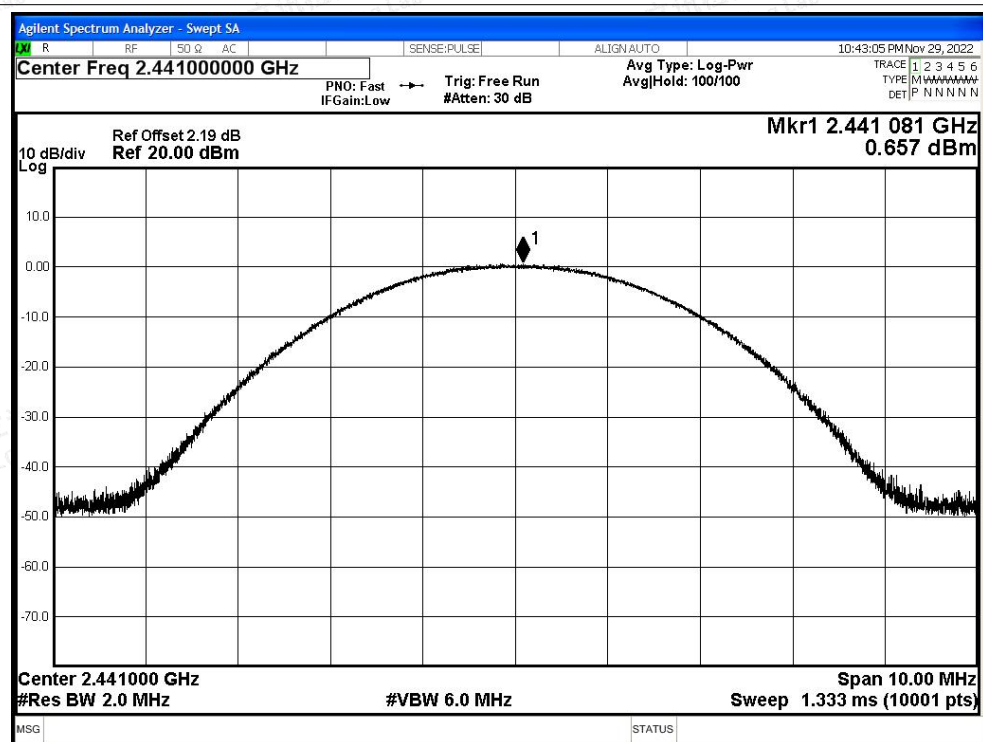
## Power NVNT 2-DH5 2402MHz Ant1



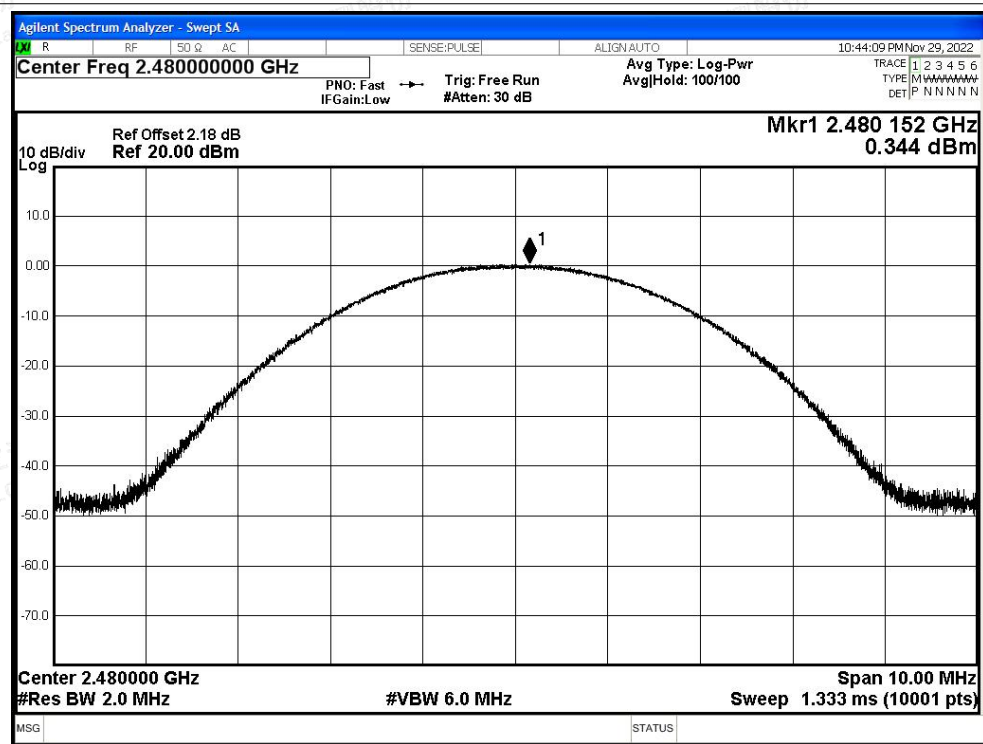




## Power NVNT 2-DH5 2441MHz Ant1



## Power NVNT 2-DH5 2480MHz Ant1





### A.3 Carrier Frequencies Separation

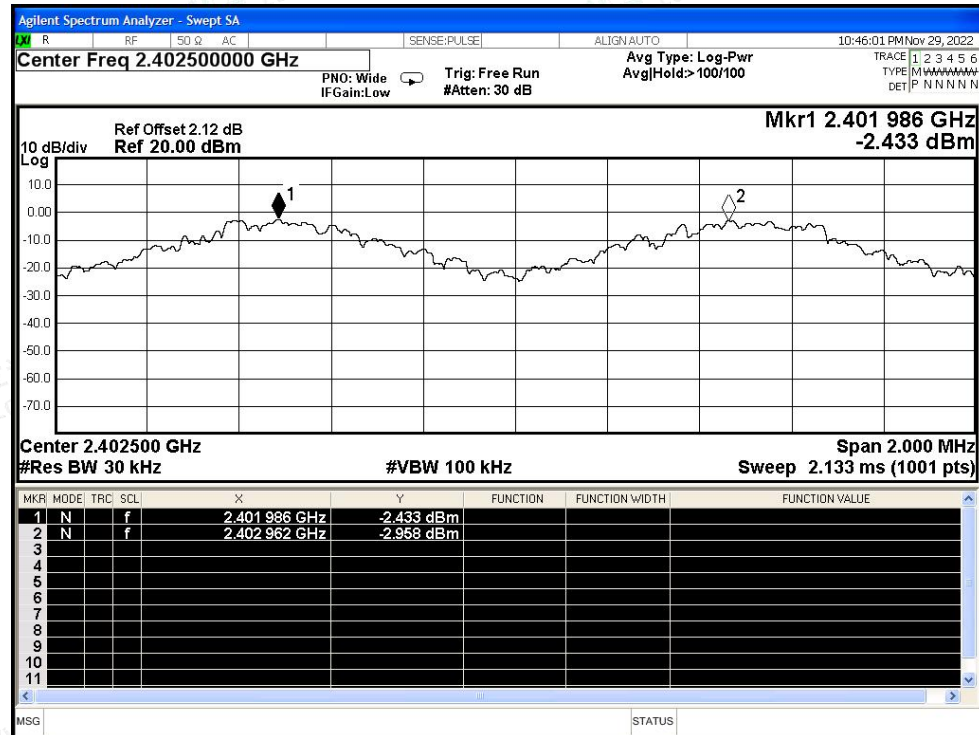
| Condition | Mode  | Antenna | Hopping Freq1 (MHz) | Hopping Freq2 (MHz) | HFS (MHz) | Limit (MHz) | Verdict |
|-----------|-------|---------|---------------------|---------------------|-----------|-------------|---------|
| NVNT      | 1-DH5 | Ant1    | 2401.986            | 2402.962            | 0.976     | 0.682       | Pass    |
| NVNT      | 2-DH5 | Ant1    | 2402.154            | 2403.15             | 0.996     | 0.875       | Pass    |



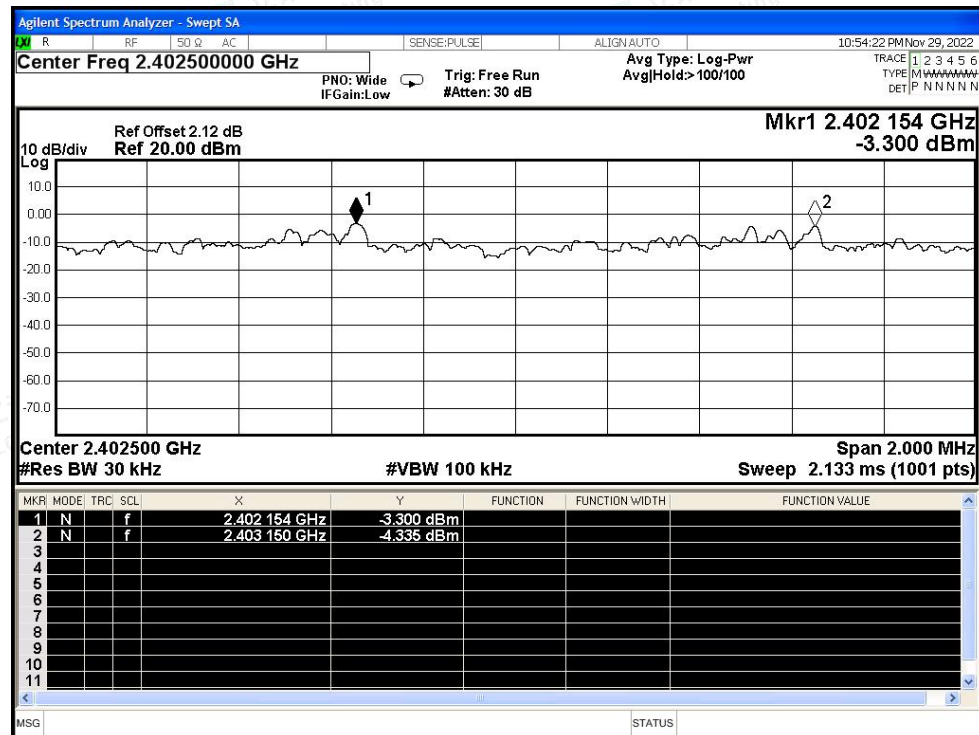


## Test Graphs

## 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    | 2.881              | 276.576                  | 96             | 31600               | 400           | Pass    |
| NVNT      | 2-DH5 | 2402               | Ant1    | 2.885              | 326.005                  | 113            | 31600               | 400           | Pass    |

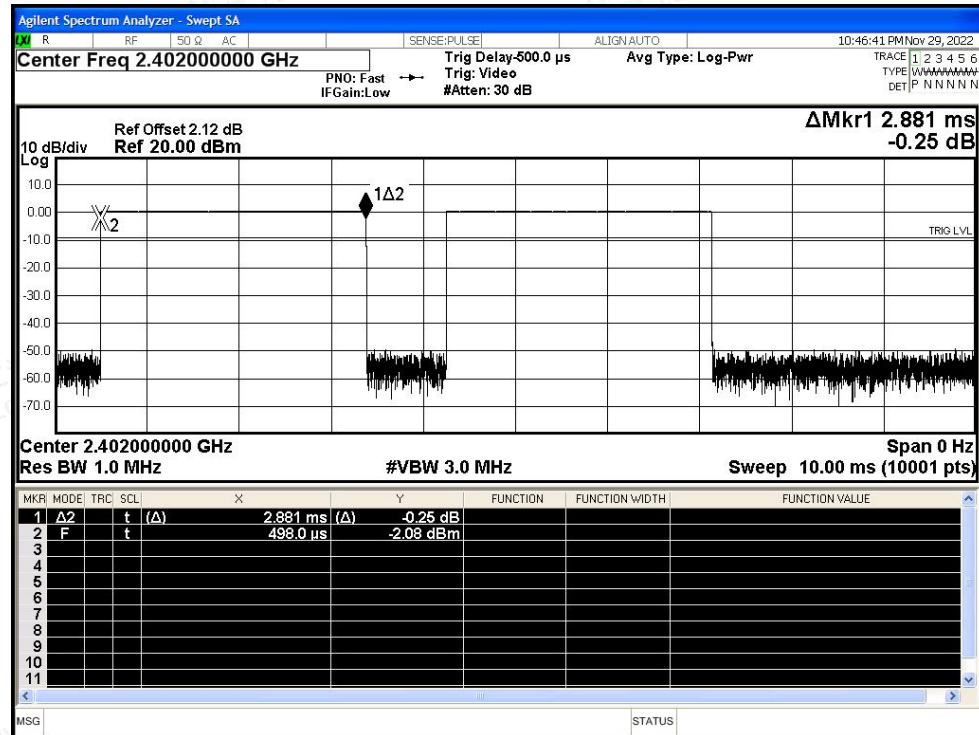


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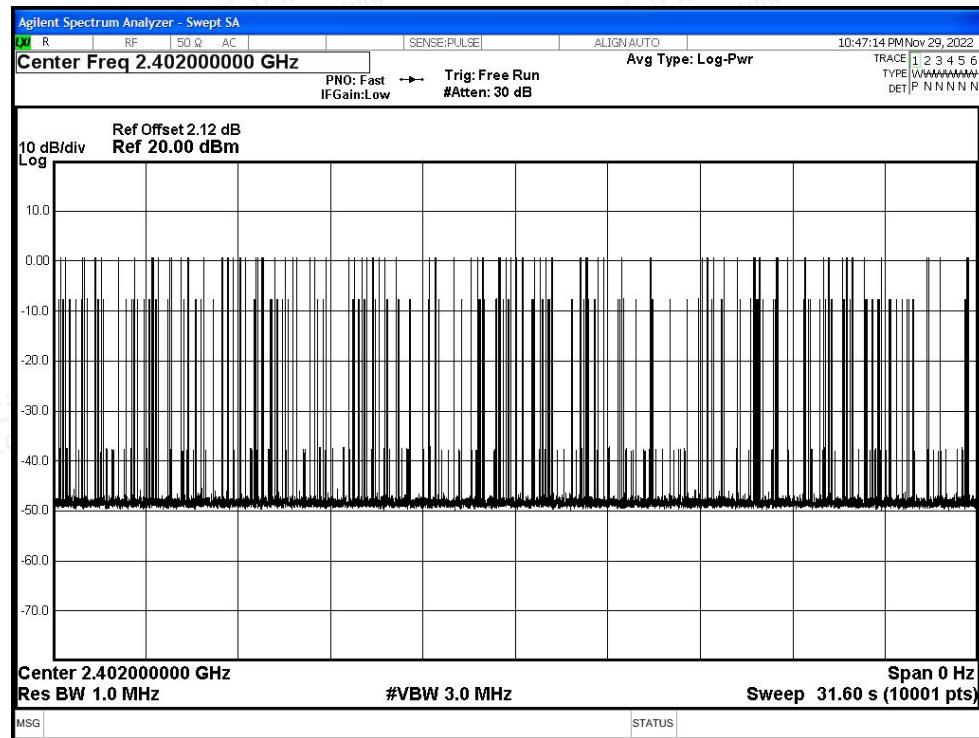


## Test Graphs

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



## Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



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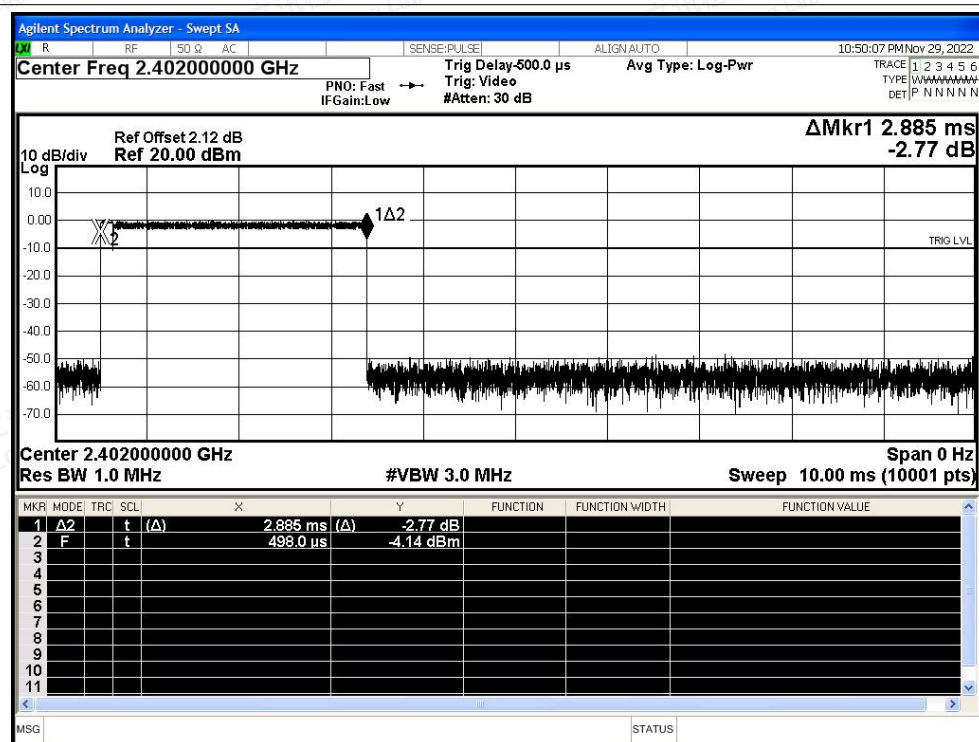
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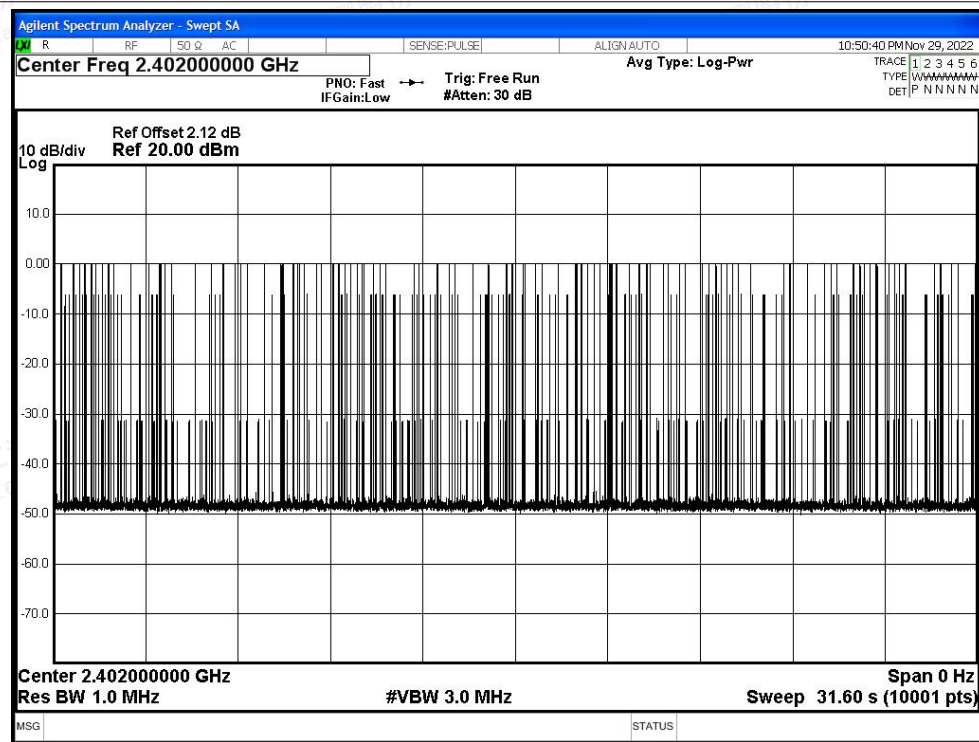
Scan code to check authenticity



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



## Dwell NVNT 2-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    |

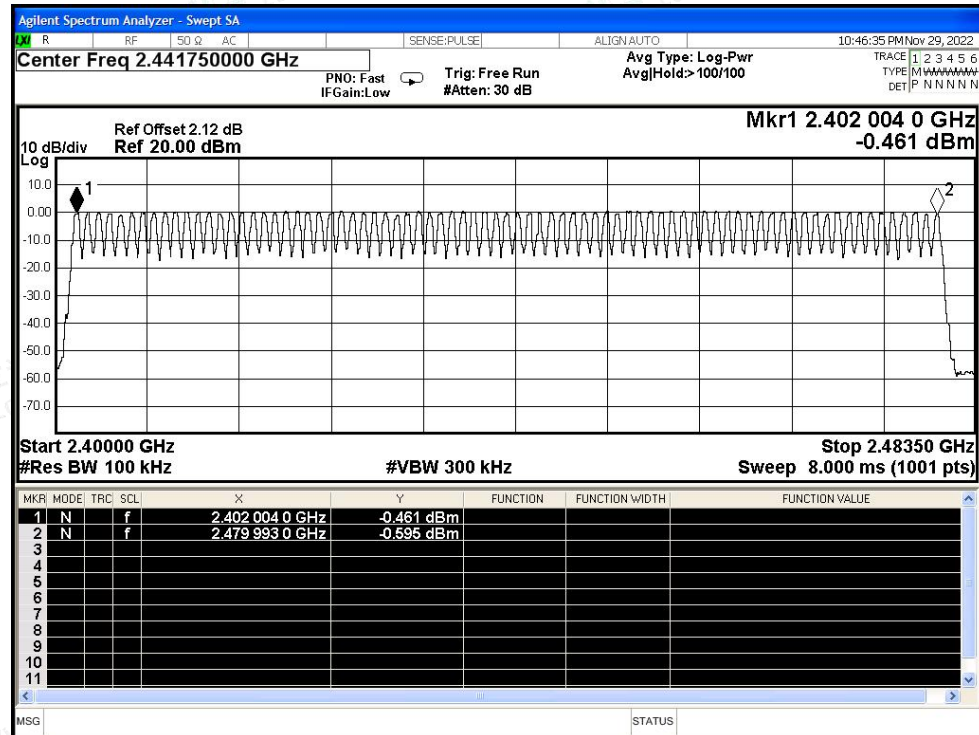




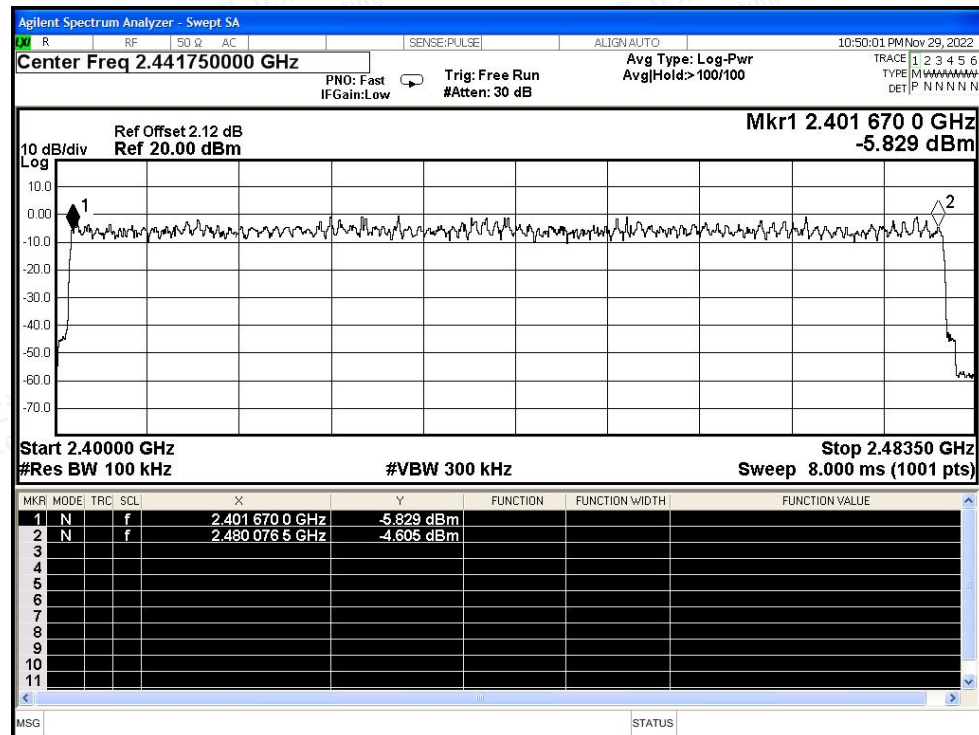


## Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1





## A.6 Band Edge

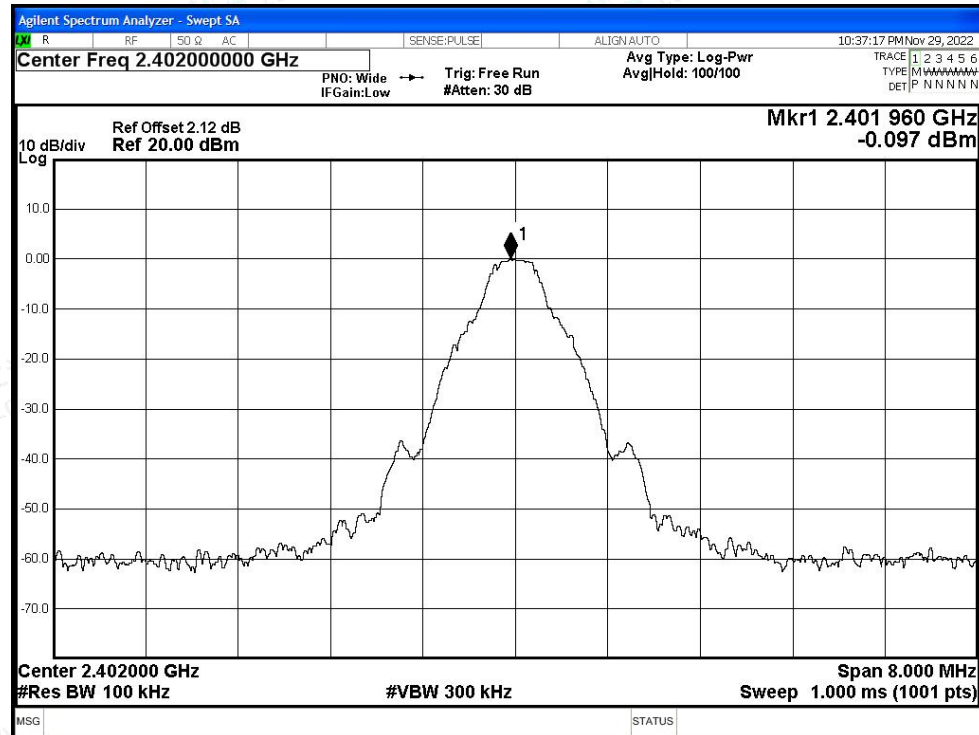
| Condition | Mode  | Frequency (MHz) | Antenna | Hopping Mode | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|-------|-----------------|---------|--------------|-----------------|-------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | No-Hopping   | -56.87          | -20         | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | No-Hopping   | -56.31          | -20         | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | No-Hopping   | -53.32          | -20         | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | No-Hopping   | -53.33          | -20         | Pass    |



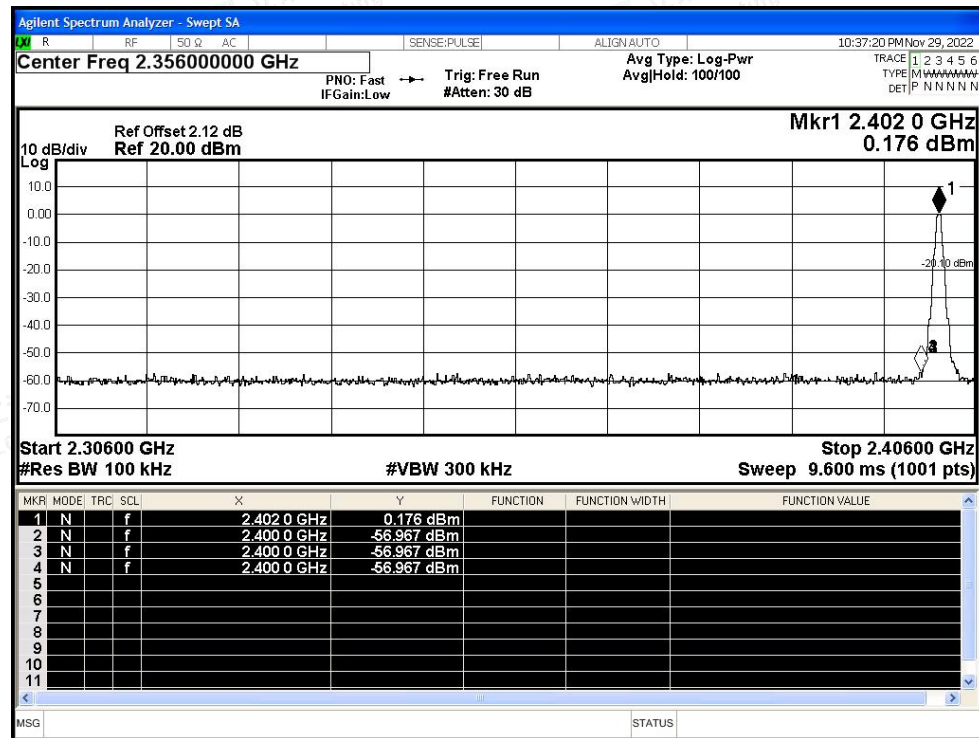


## Test Graphs

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

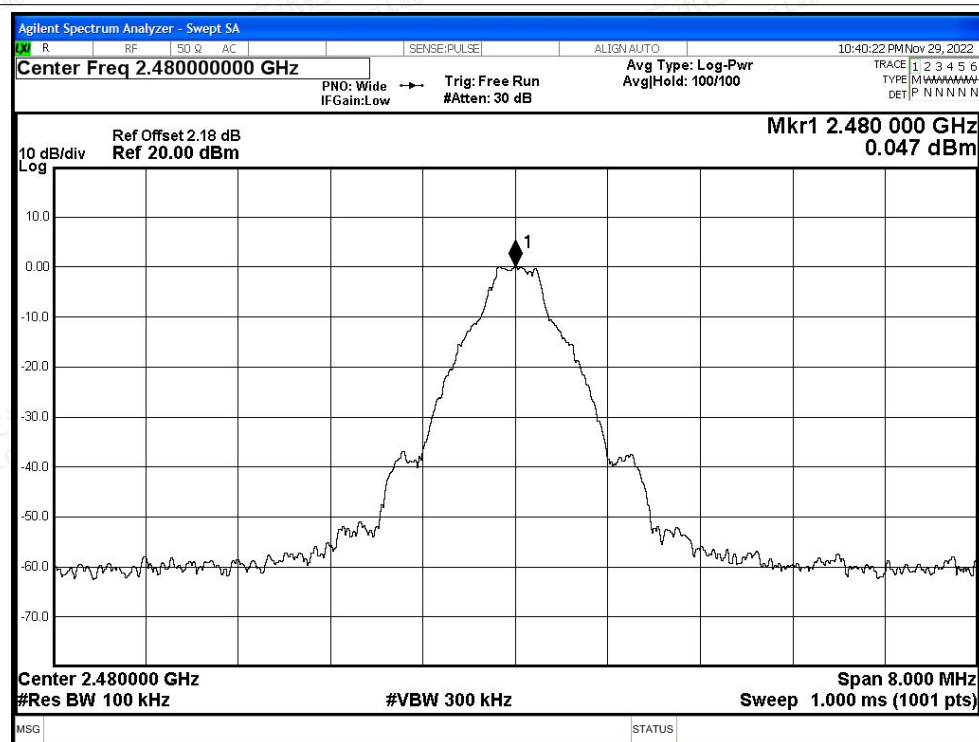


## Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

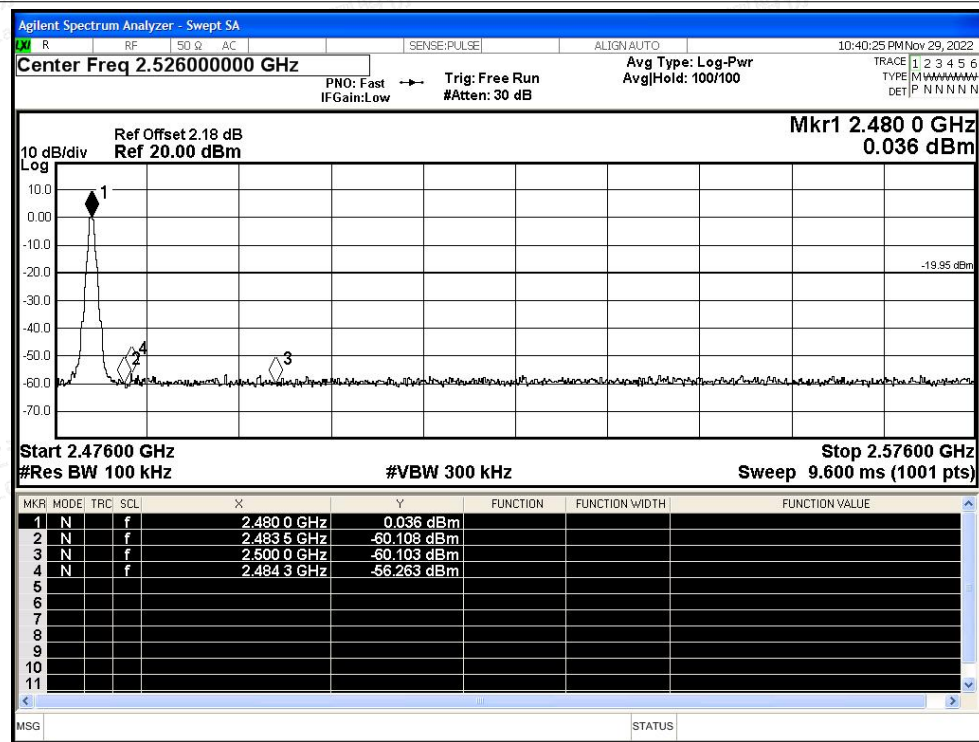




## Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

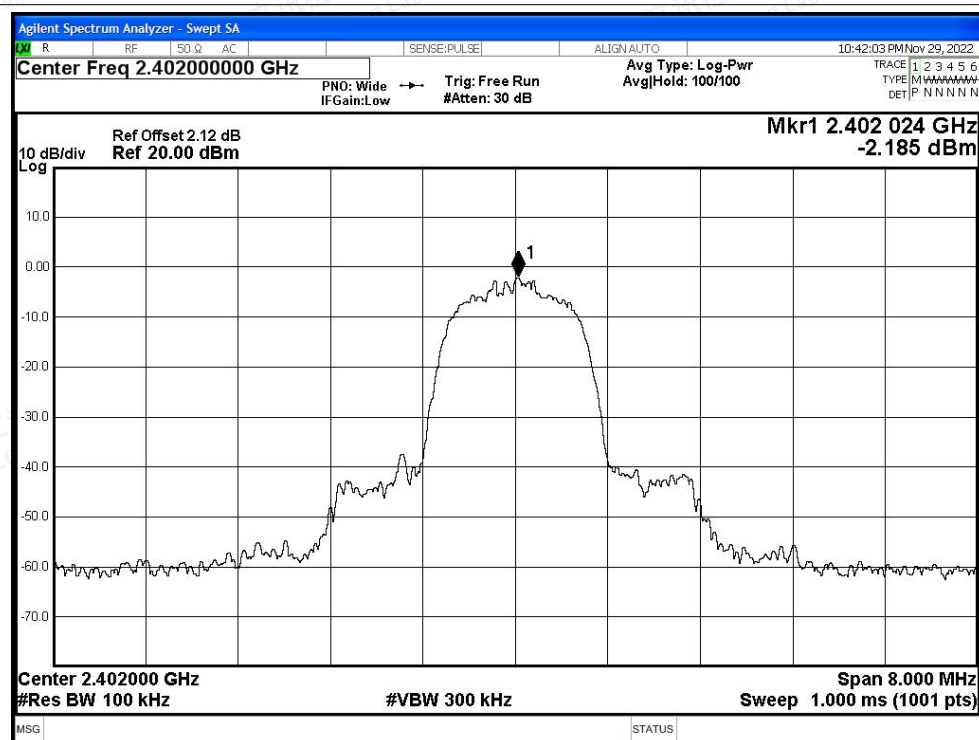


## Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

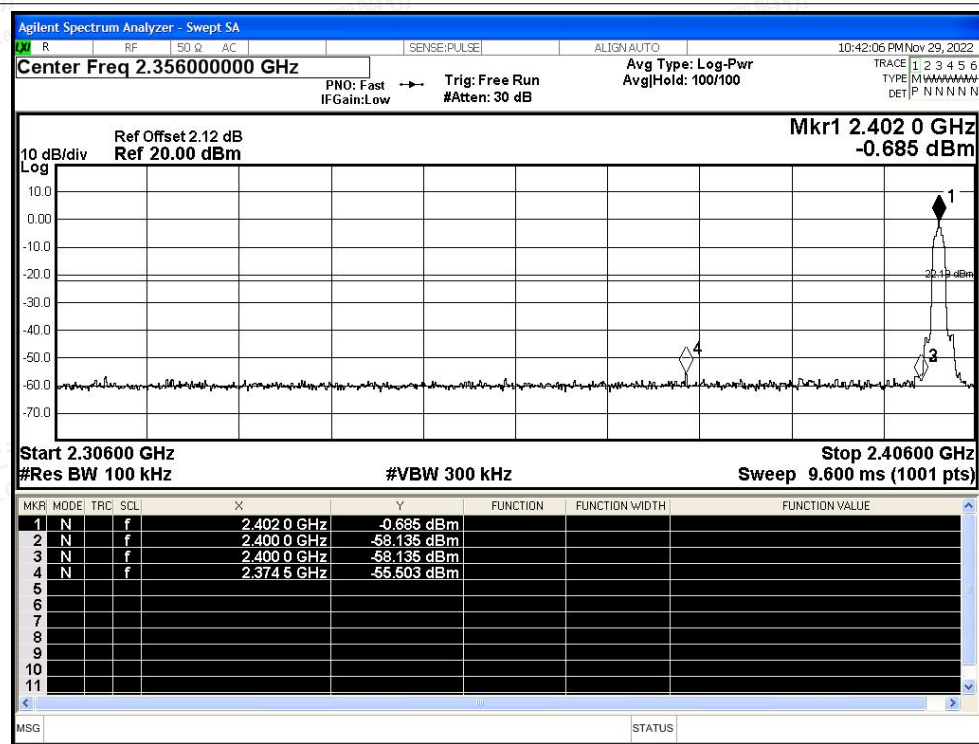




## Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



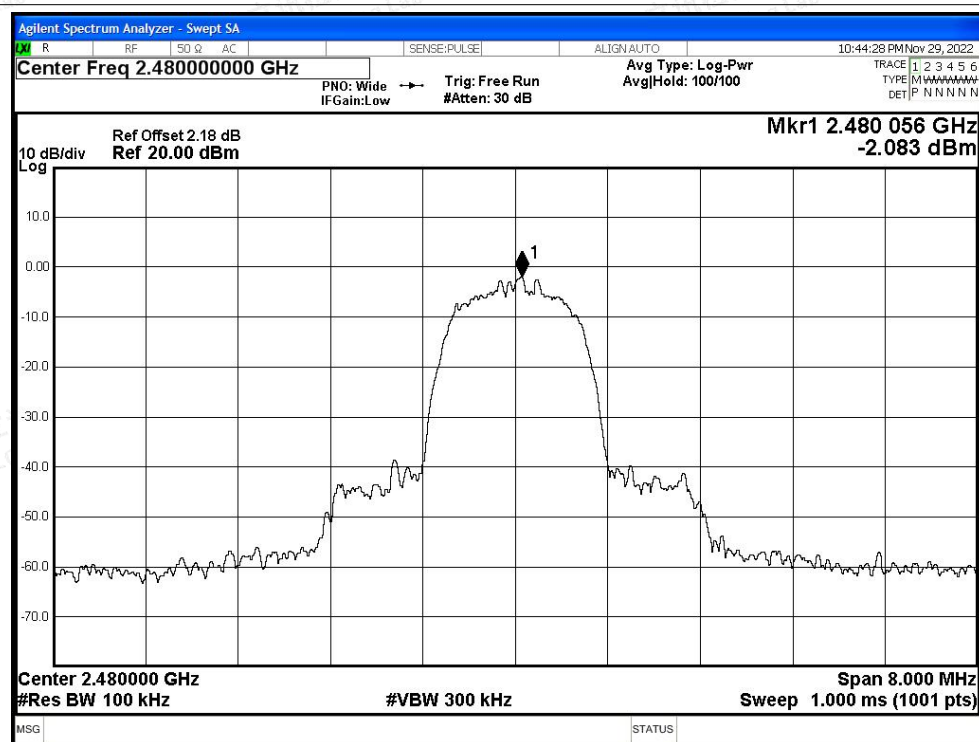
## Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



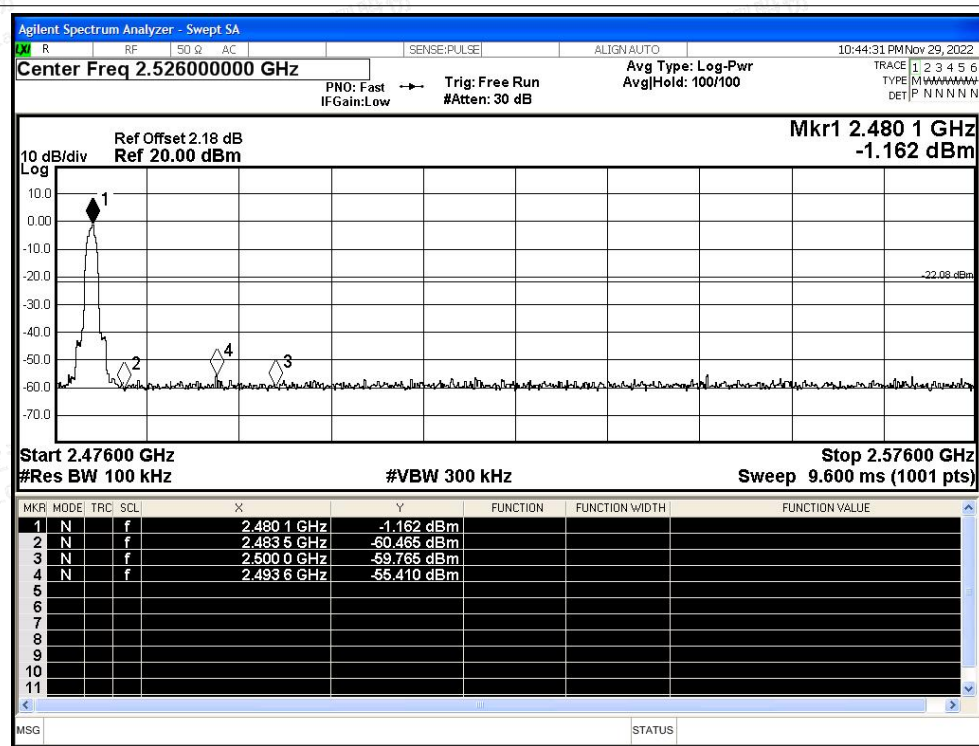




## Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



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



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(Hopping)

| Condition | Mode  | Frequency (MHz) | Antenna | Hopping Mode | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|-------|-----------------|---------|--------------|-----------------|-------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | Hopping      | -55.5           | -20         | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | Hopping      | -56.4           | -20         | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | Hopping      | -54.33          | -20         | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | Hopping      | -55.14          | -20         | Pass    |

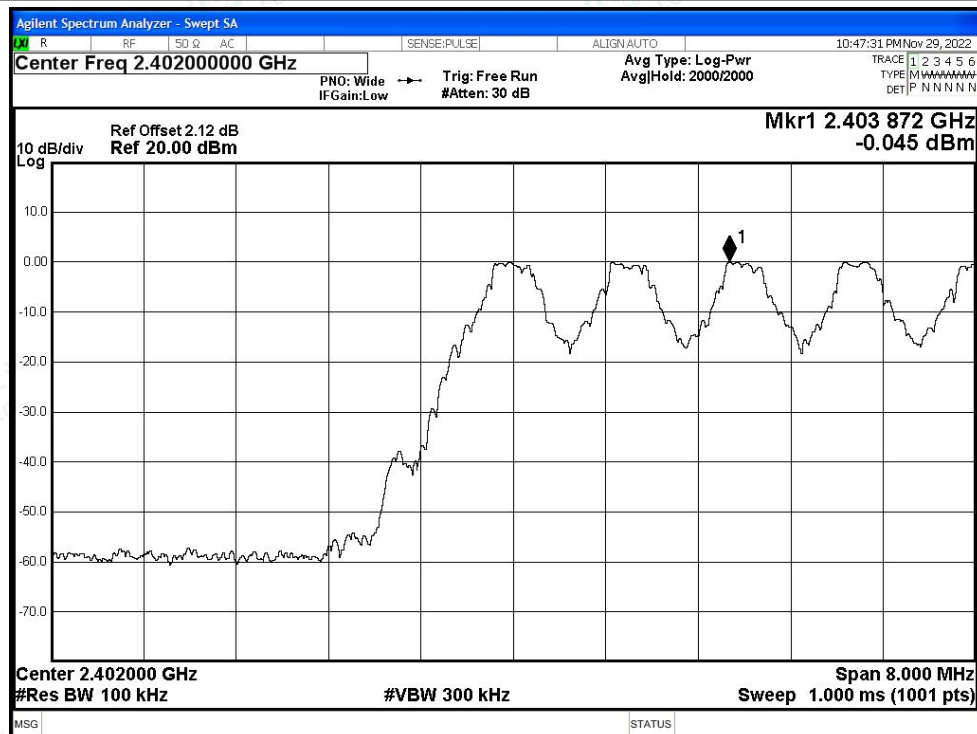




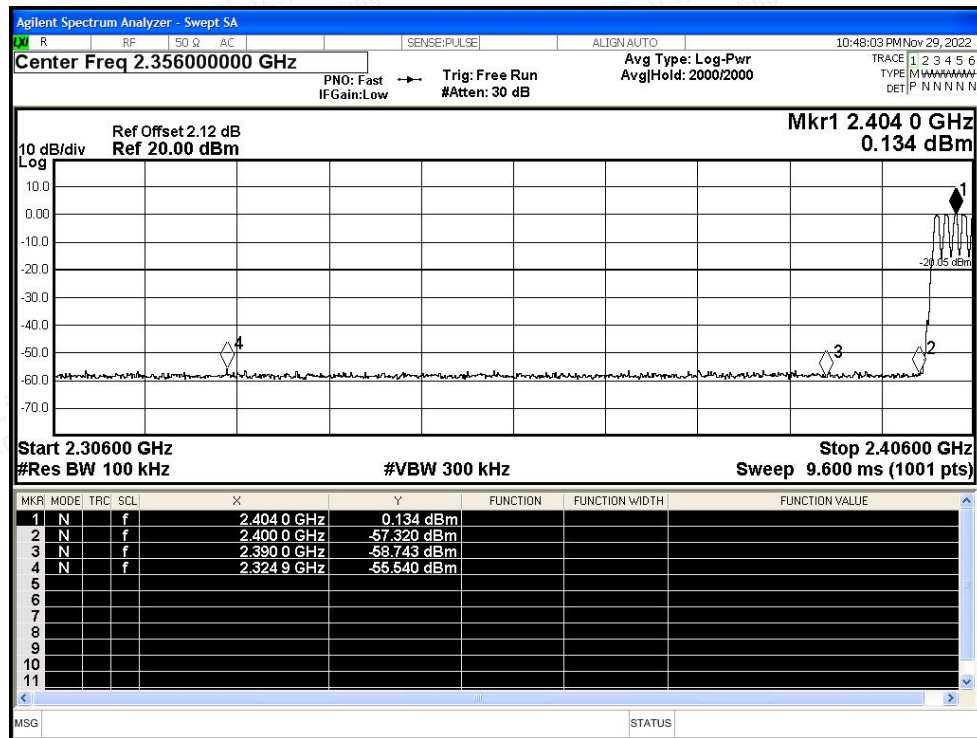


## Test Graphs

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



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



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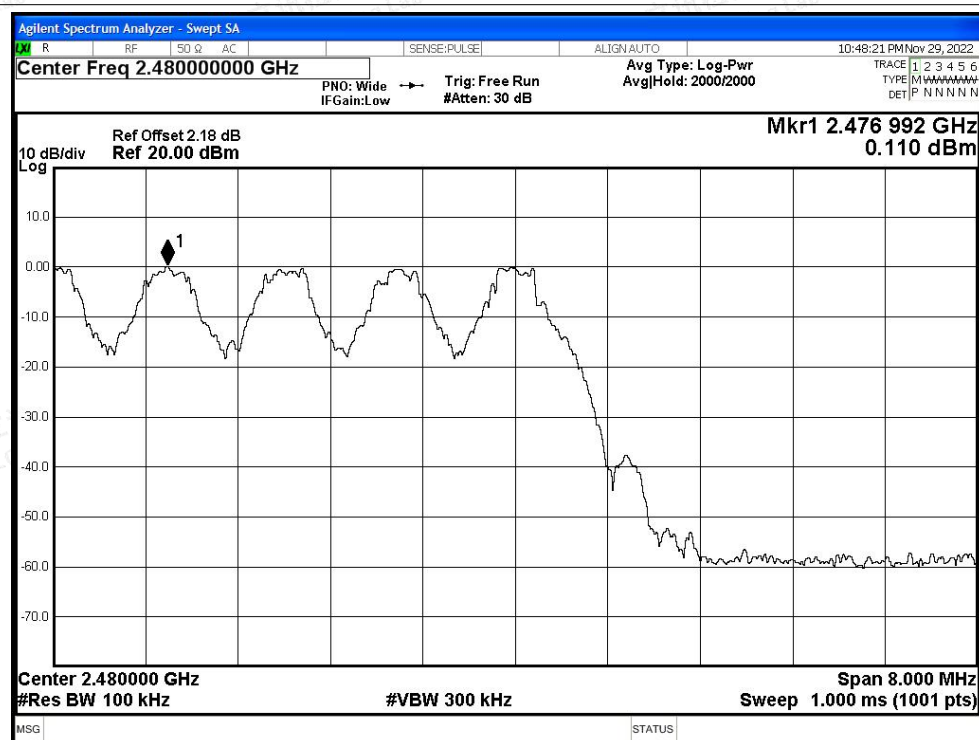
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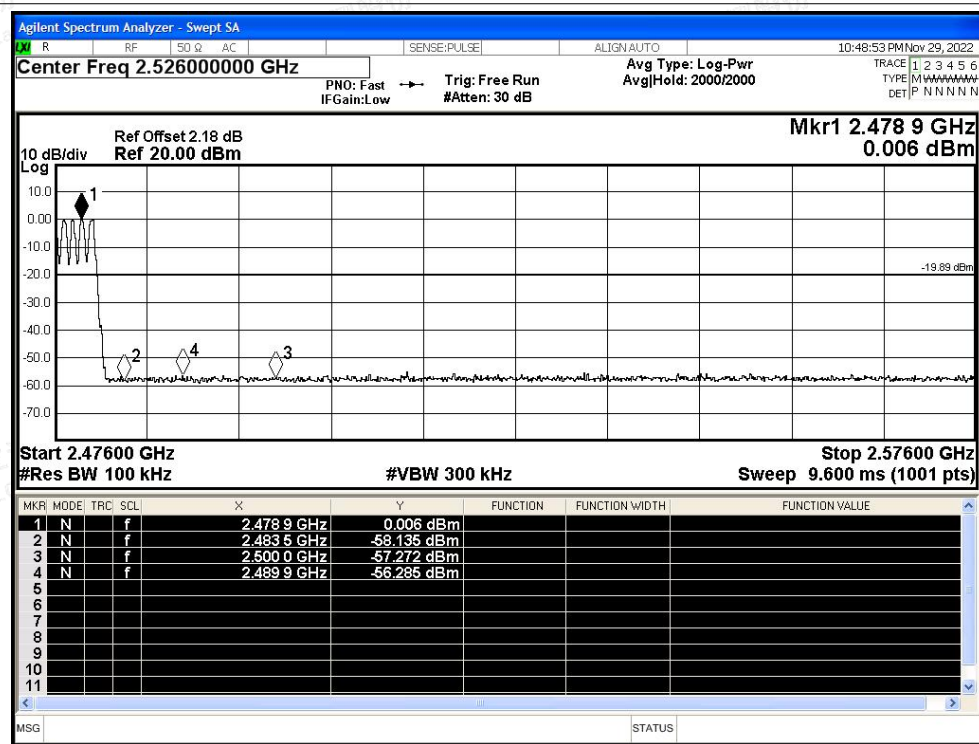
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## Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref

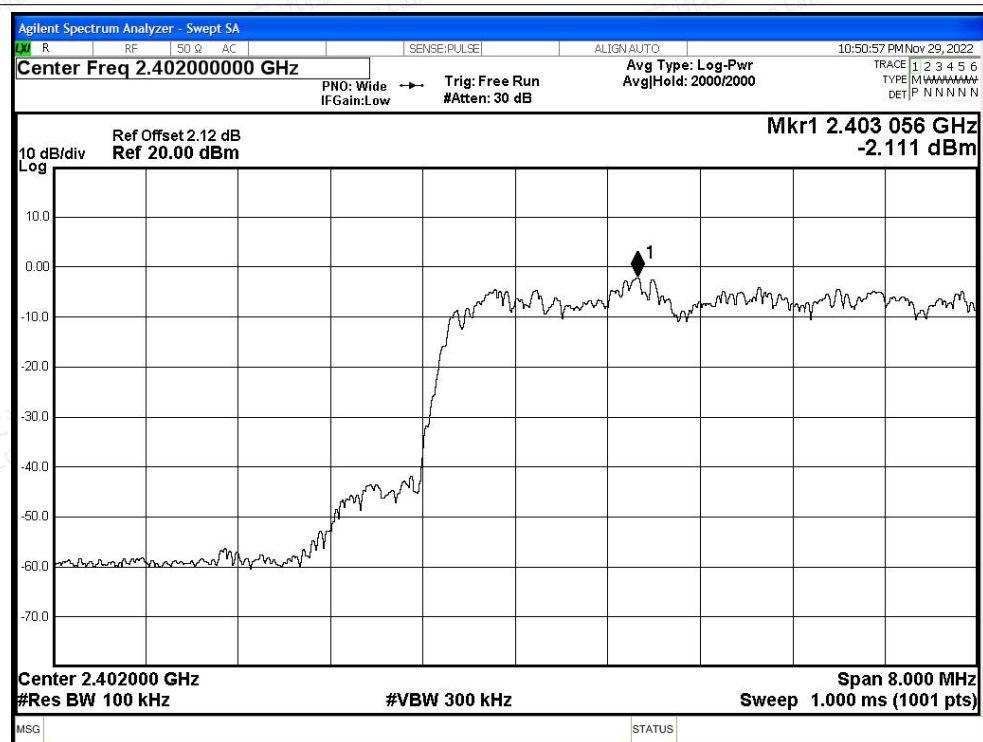


## Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

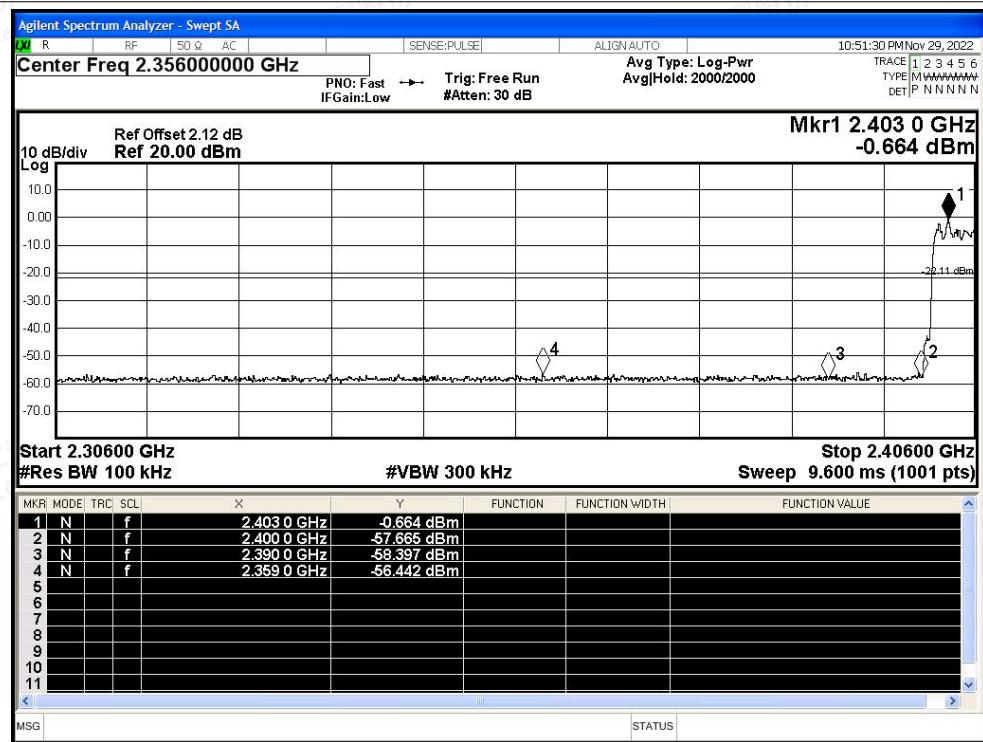




## Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



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



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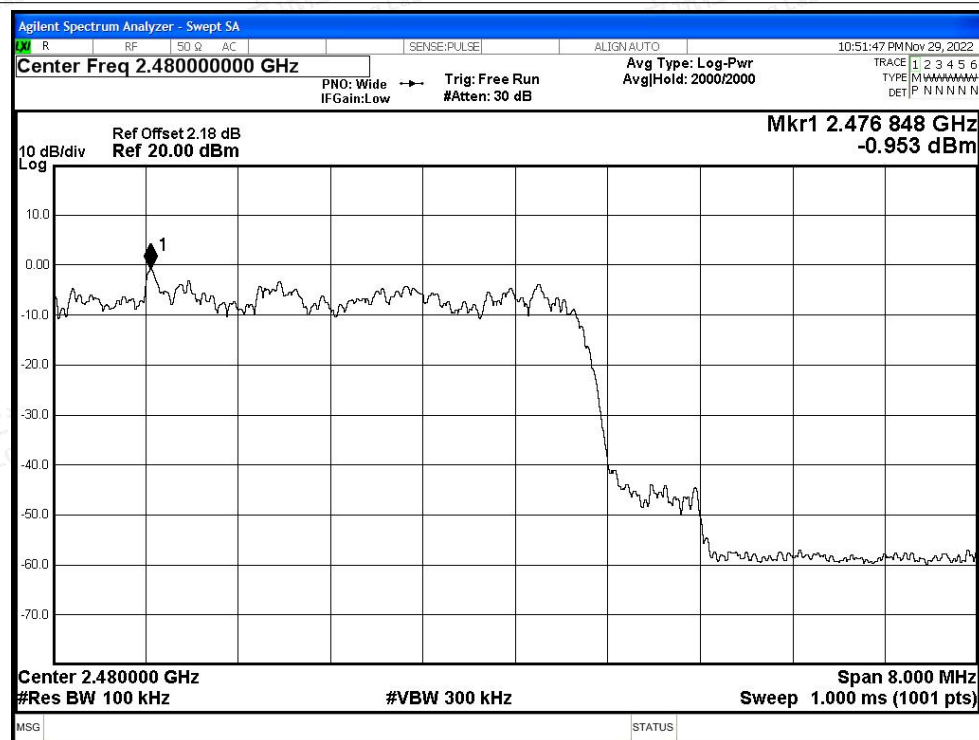
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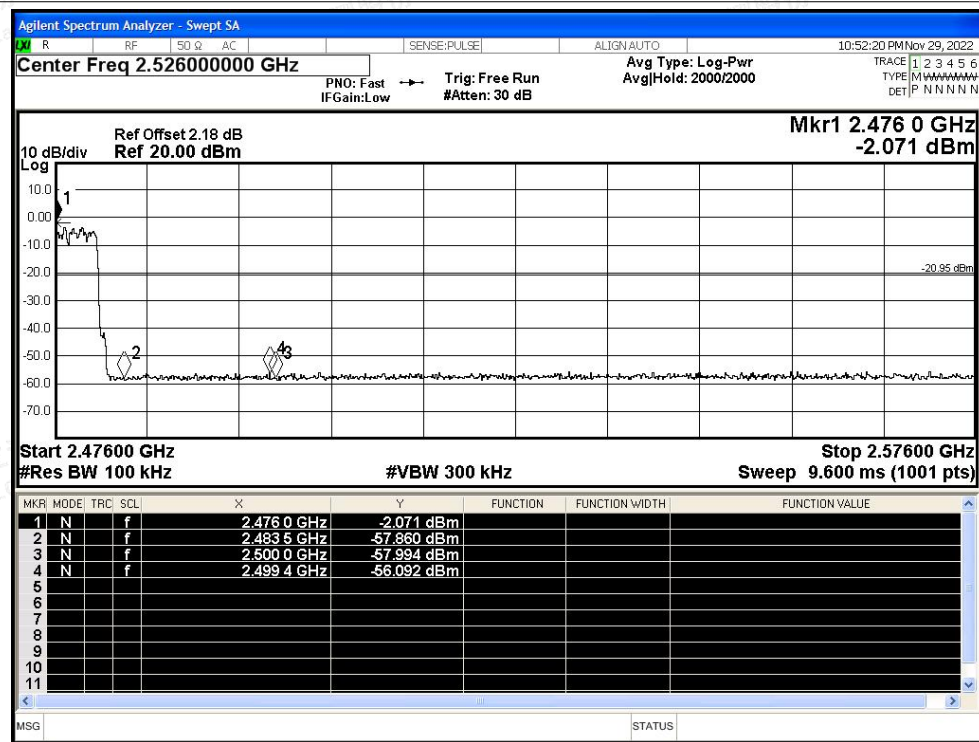
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## Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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



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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    | -50.91          | -20         | Pass    |
| NVNT      | 1-DH5 | 2441            | Ant1    | -55.06          | -20         | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | -55.39          | -20         | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | -53.57          | -20         | Pass    |
| NVNT      | 2-DH5 | 2441            | Ant1    | -53.64          | -20         | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | -53.41          | -20         | Pass    |



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