



## Appendix A

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

Product Name: AUTO SWIMMING POOL CLEANER

Test Model: WY100Pro

#### Environmental Conditions

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





## A.1 20dB Bandwidth

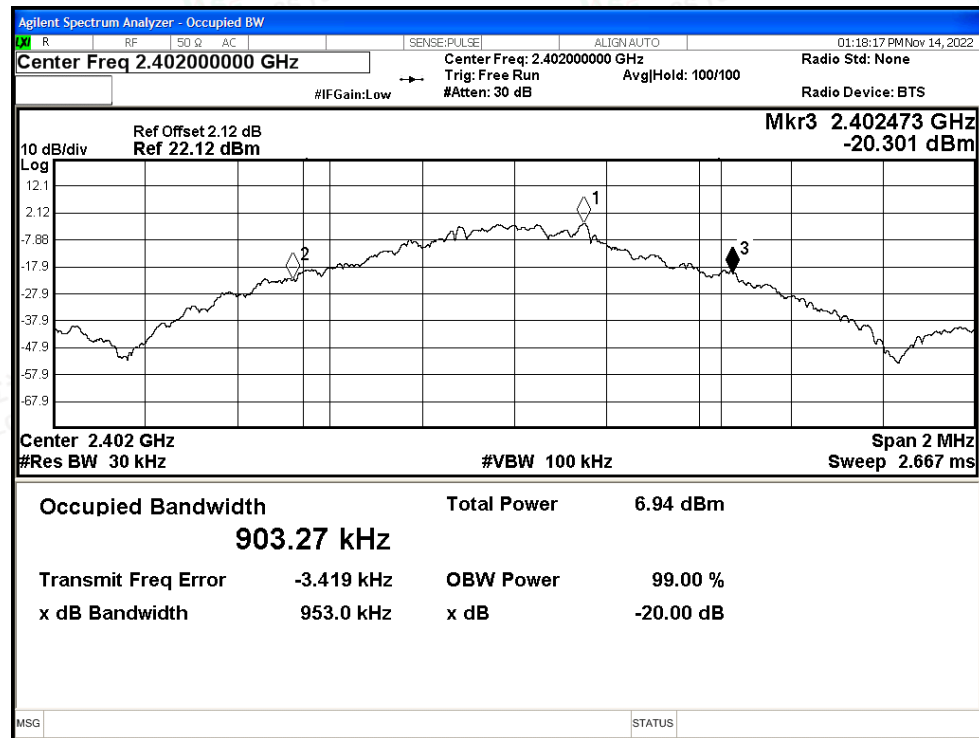
| Condition | Mode  | Frequency (MHz) | Antenna | 20 dB Bandwidth (MHz) | Limit 20 dB Bandwidth (MHz) | Verdict |
|-----------|-------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | 0.953                 | N/A                         | Pass    |
| NVNT      | 1-DH5 | 2441            | Ant1    | 1.029                 | N/A                         | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | 1.019                 | N/A                         | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | 1.276                 | N/A                         | Pass    |
| NVNT      | 2-DH5 | 2441            | Ant1    | 1.281                 | N/A                         | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | 1.29                  | N/A                         | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | 1.294                 | N/A                         | Pass    |
| NVNT      | 3-DH5 | 2441            | Ant1    | 1.295                 | N/A                         | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | 1.289                 | N/A                         | Pass    |



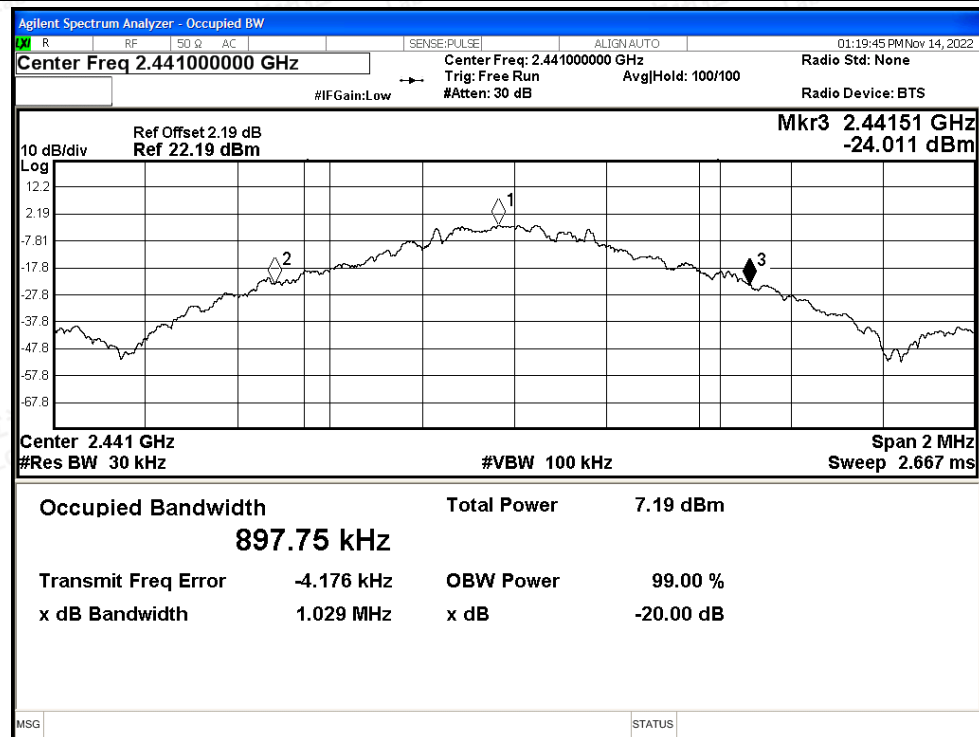


## Test Graphs

## 20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



## 20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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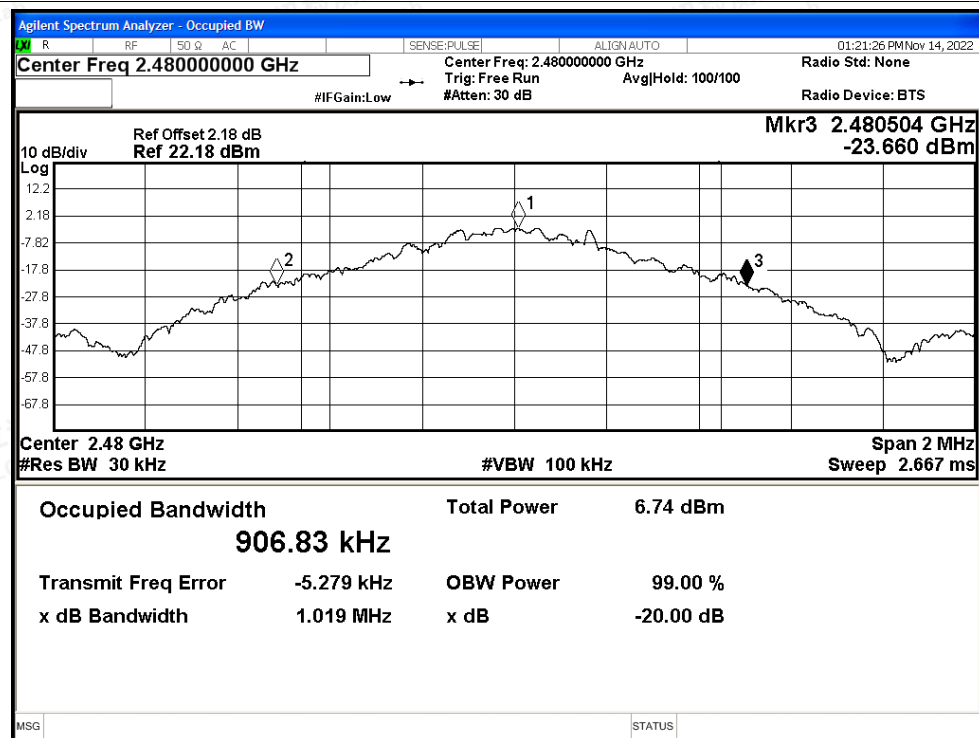
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

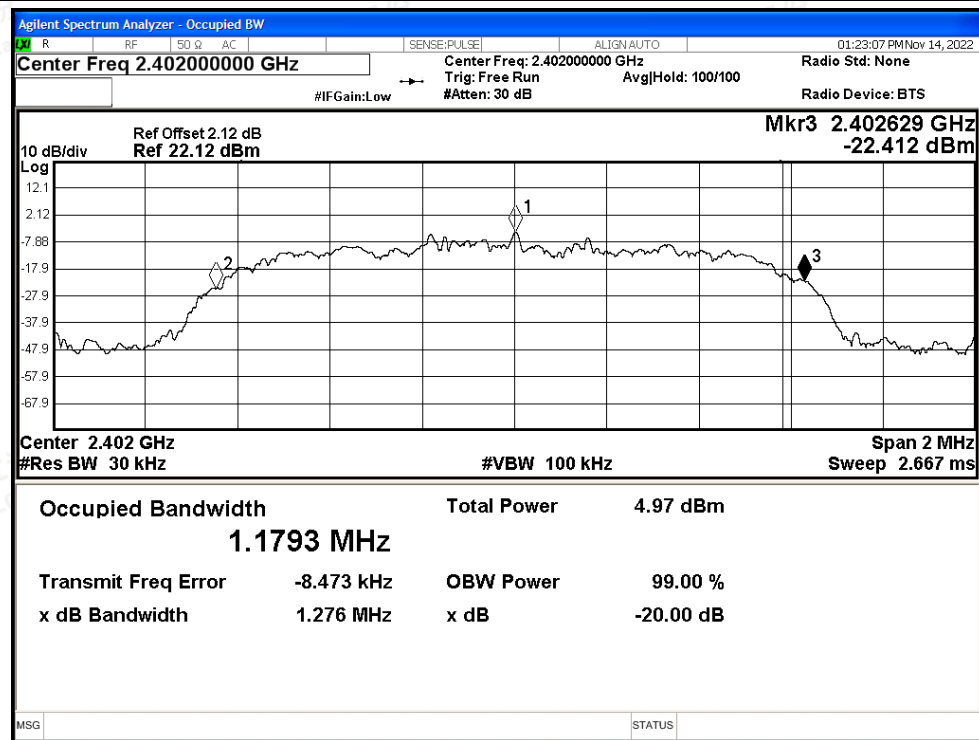
Scan code to check authenticity



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



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



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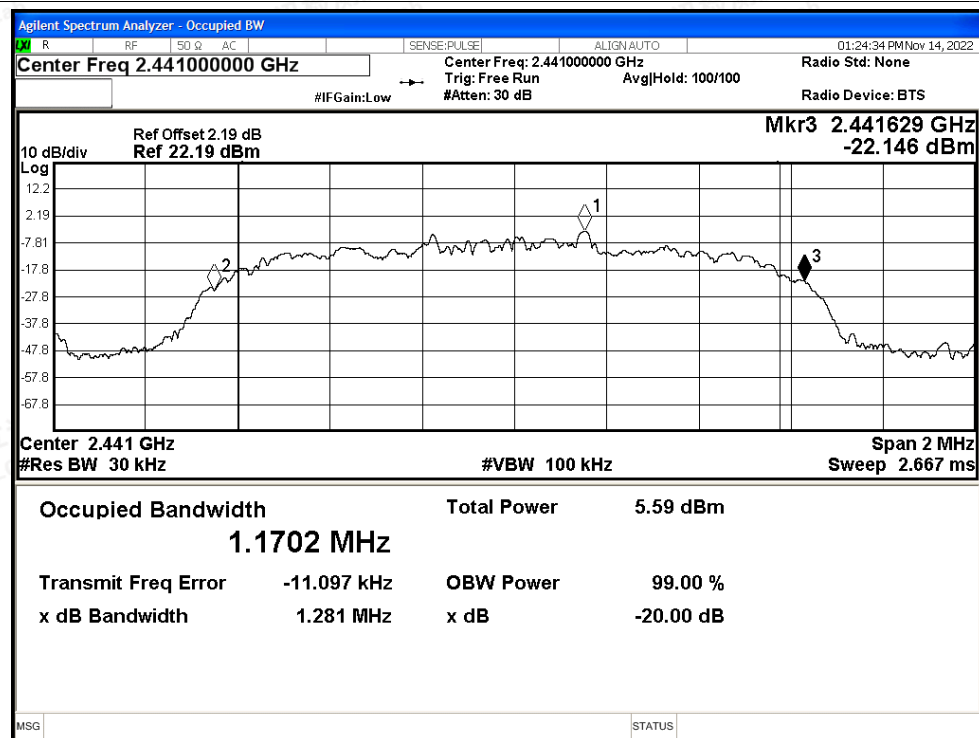
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

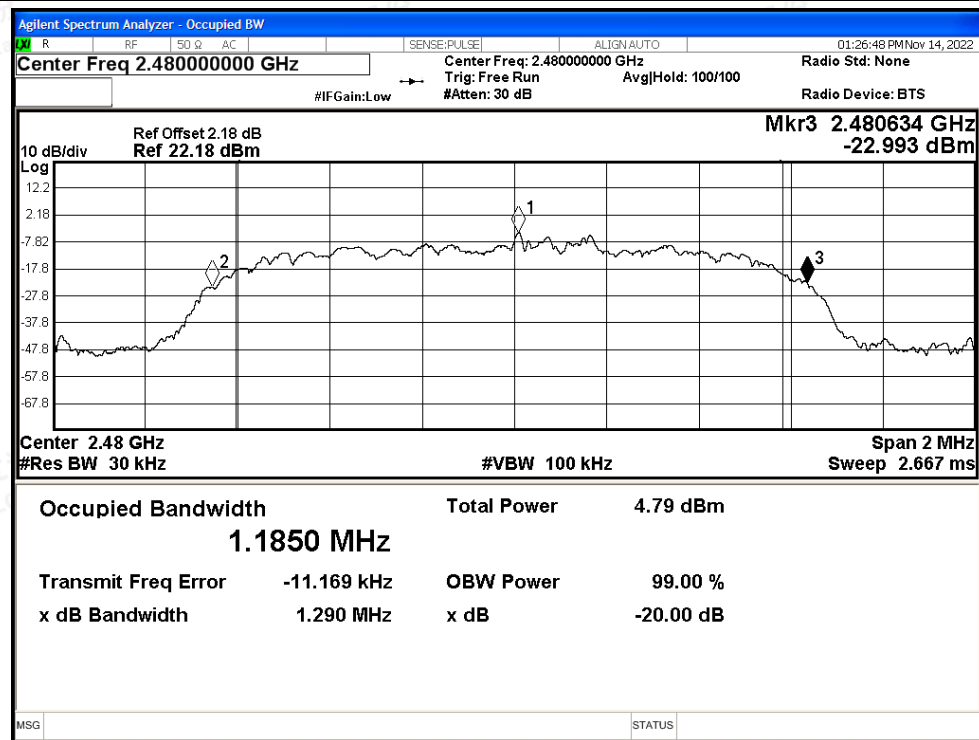
Scan code to check authenticity



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



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



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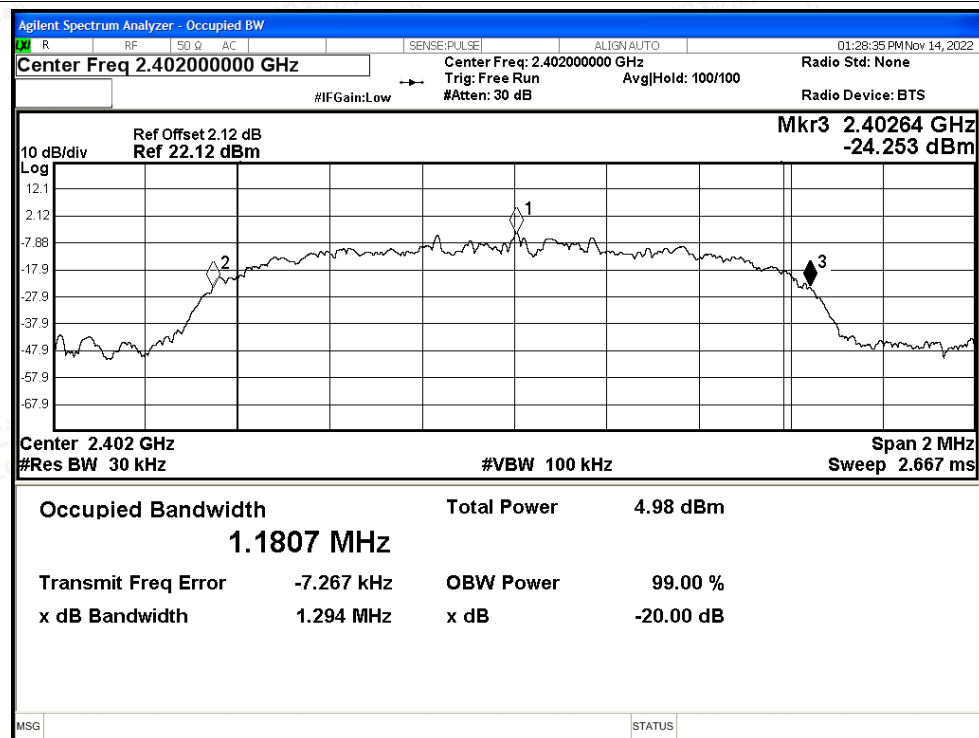
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

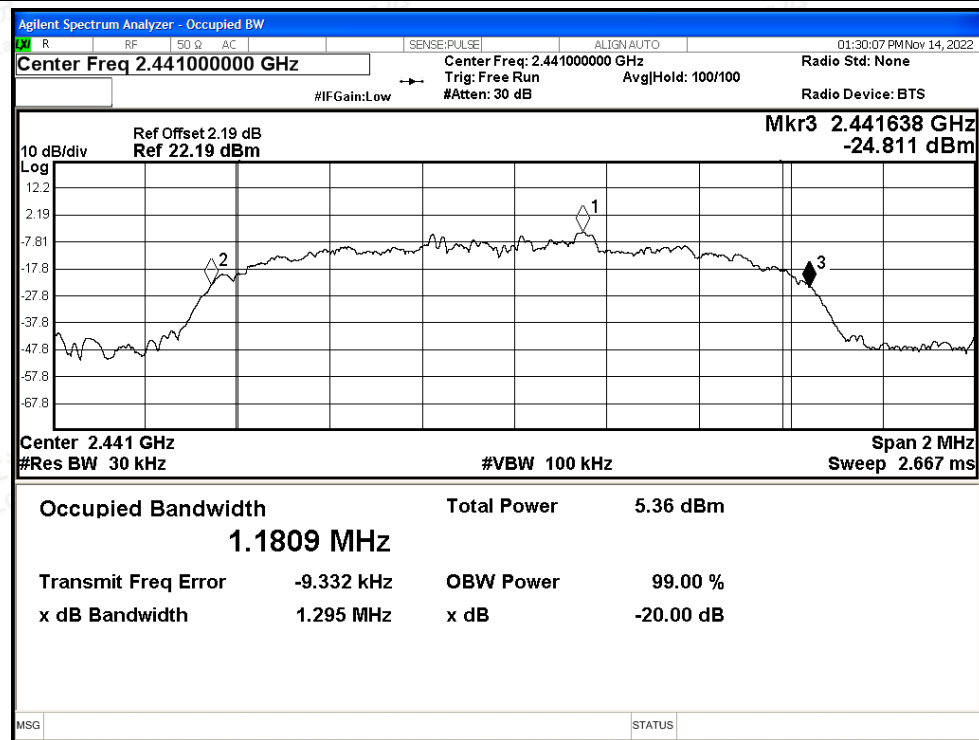
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## 20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



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

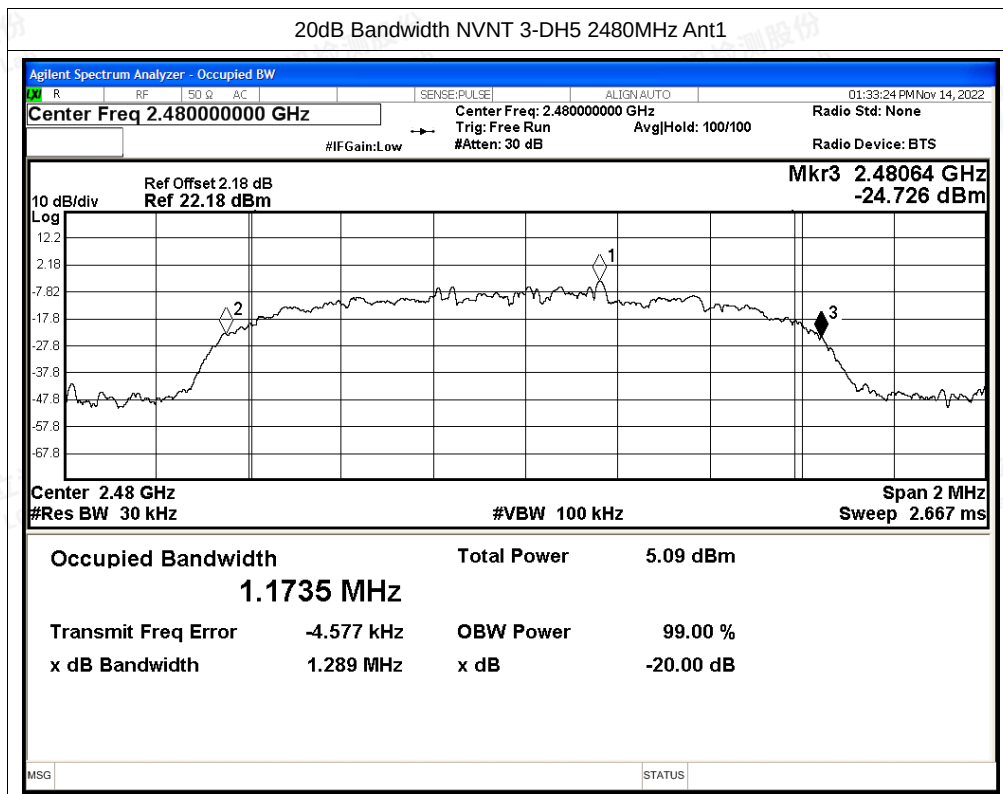


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## A.2 Maximum Conducted Output Power

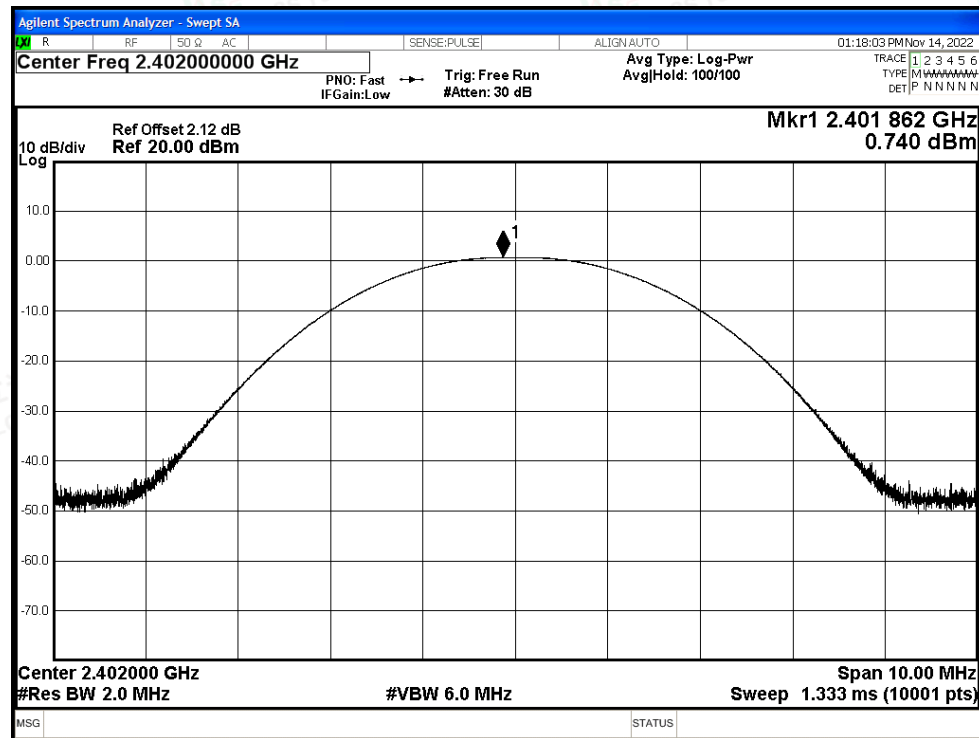
| Condition | Mode  | Frequency (MHz) | Antenna | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|-------|-----------------|---------|-------------------|-------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | 0.74              | 21          | Pass    |
| NVNT      | 1-DH5 | 2441            | Ant1    | 0.93              | 21          | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | 0.66              | 21          | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | 0.52              | 21          | Pass    |
| NVNT      | 2-DH5 | 2441            | Ant1    | 0.69              | 21          | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | 0.49              | 21          | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | 0.61              | 21          | Pass    |
| NVNT      | 3-DH5 | 2441            | Ant1    | 0.81              | 21          | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | 0.56              | 21          | Pass    |



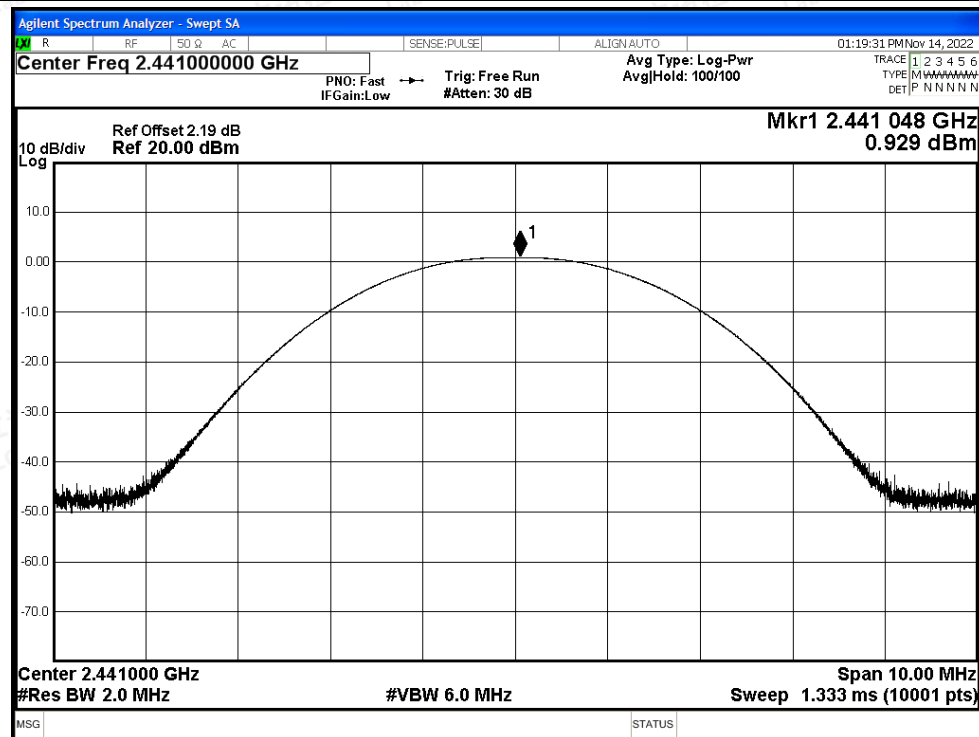


## Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1

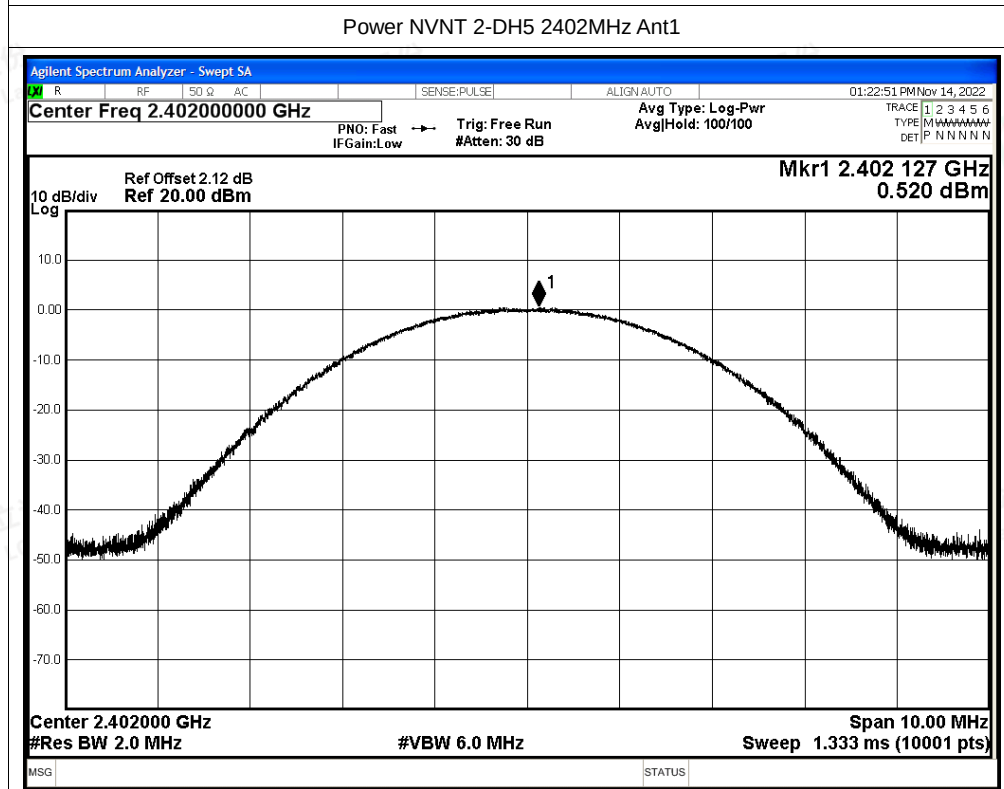
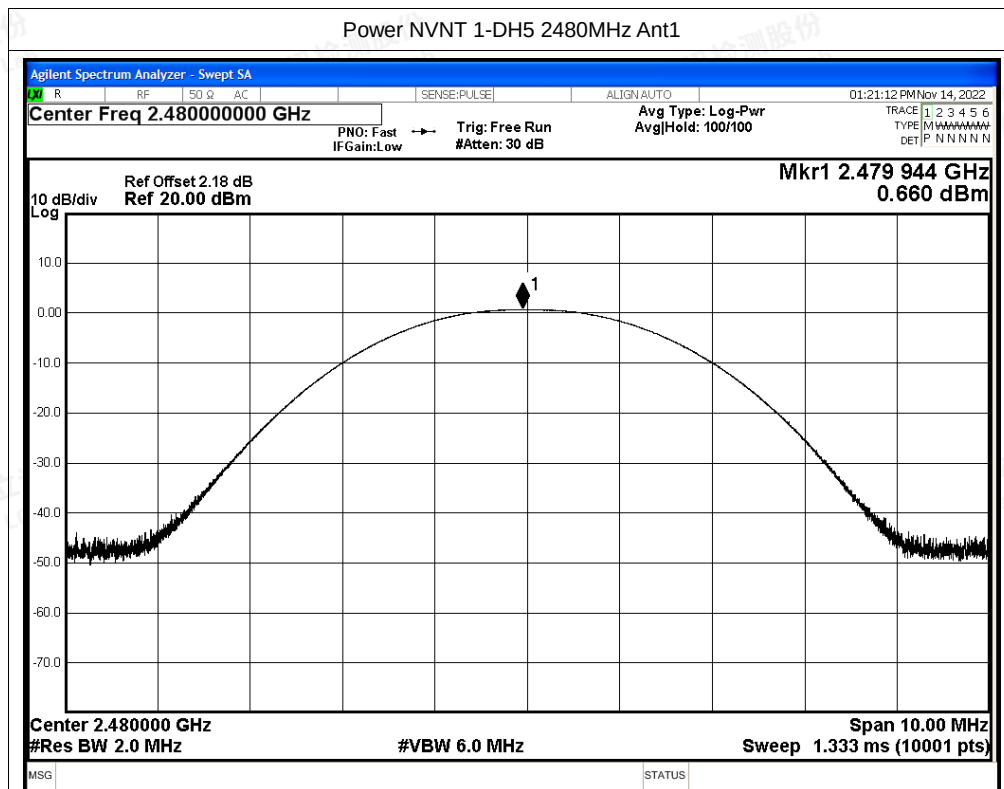


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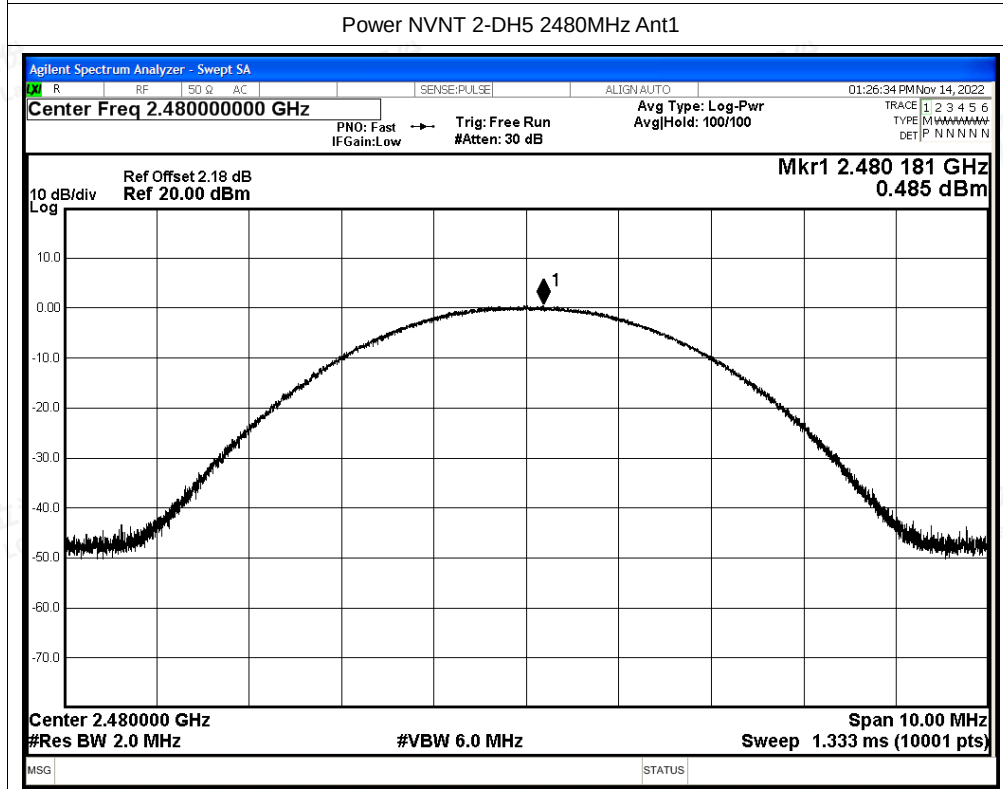
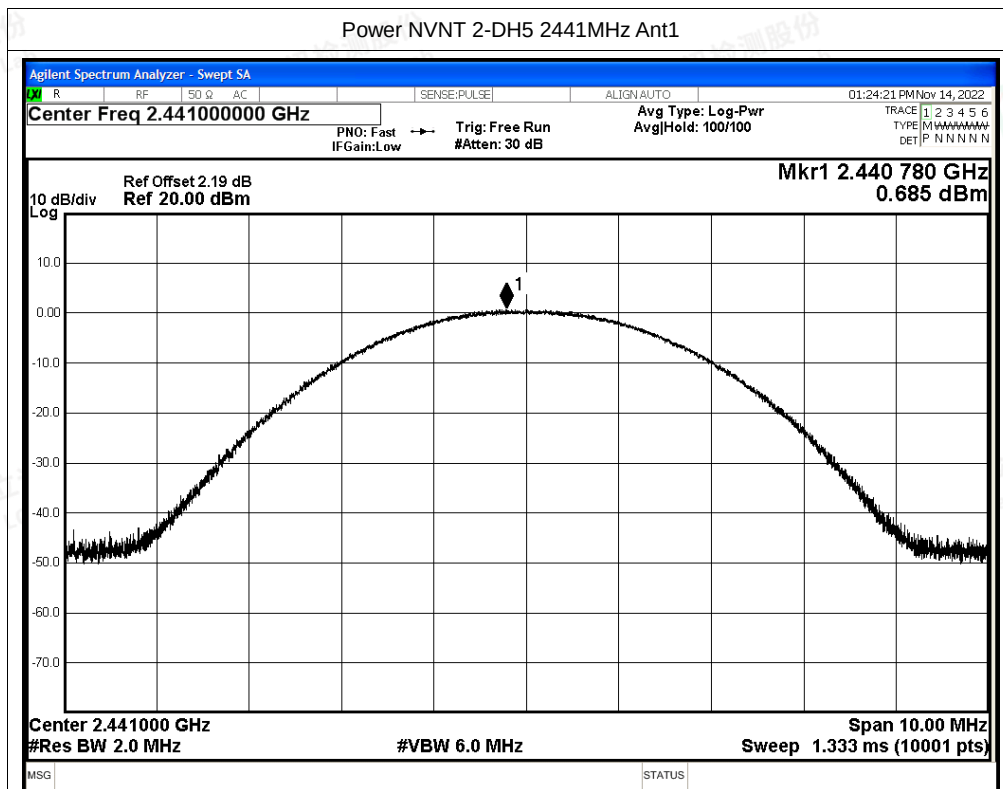


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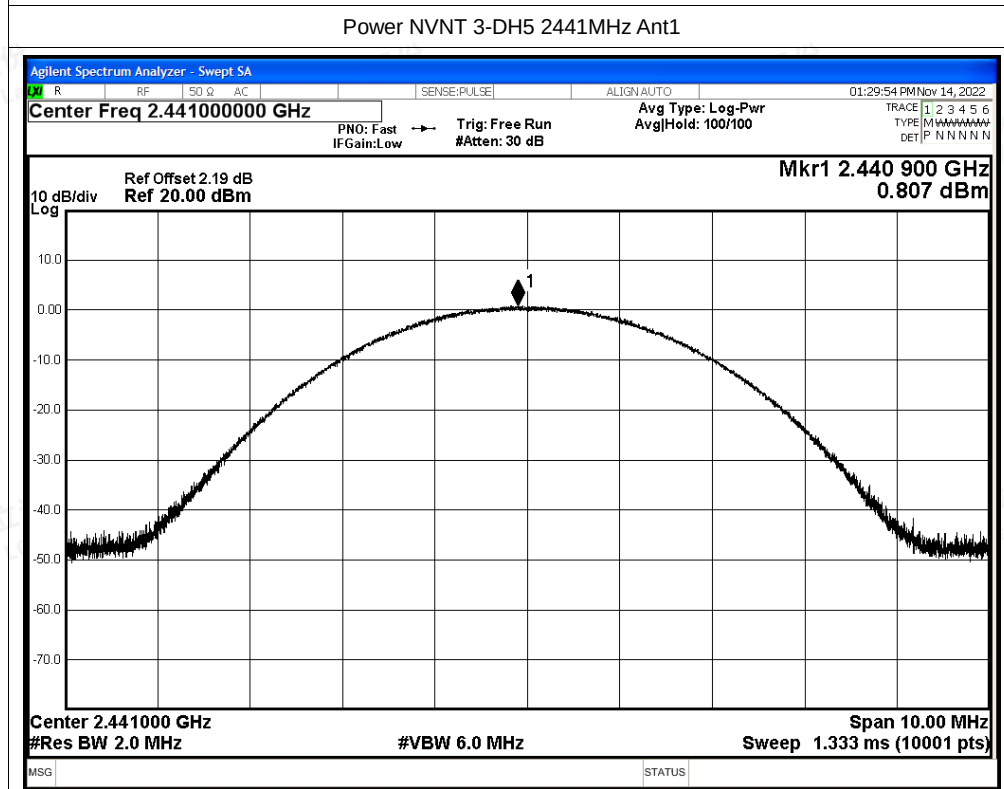
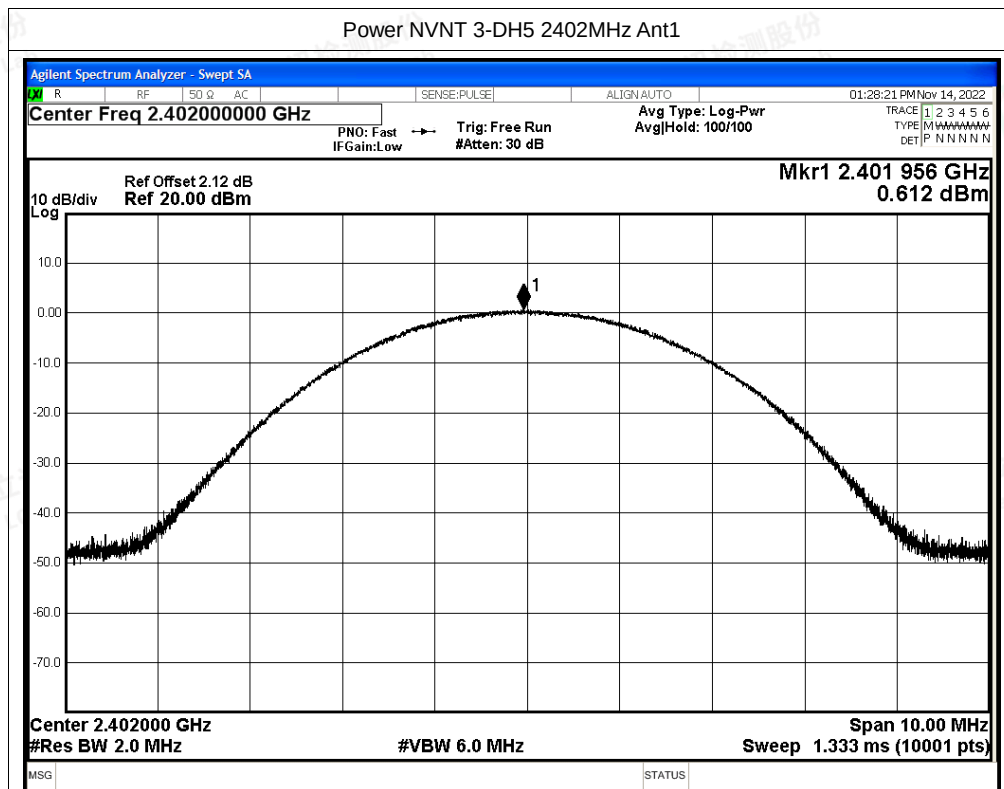


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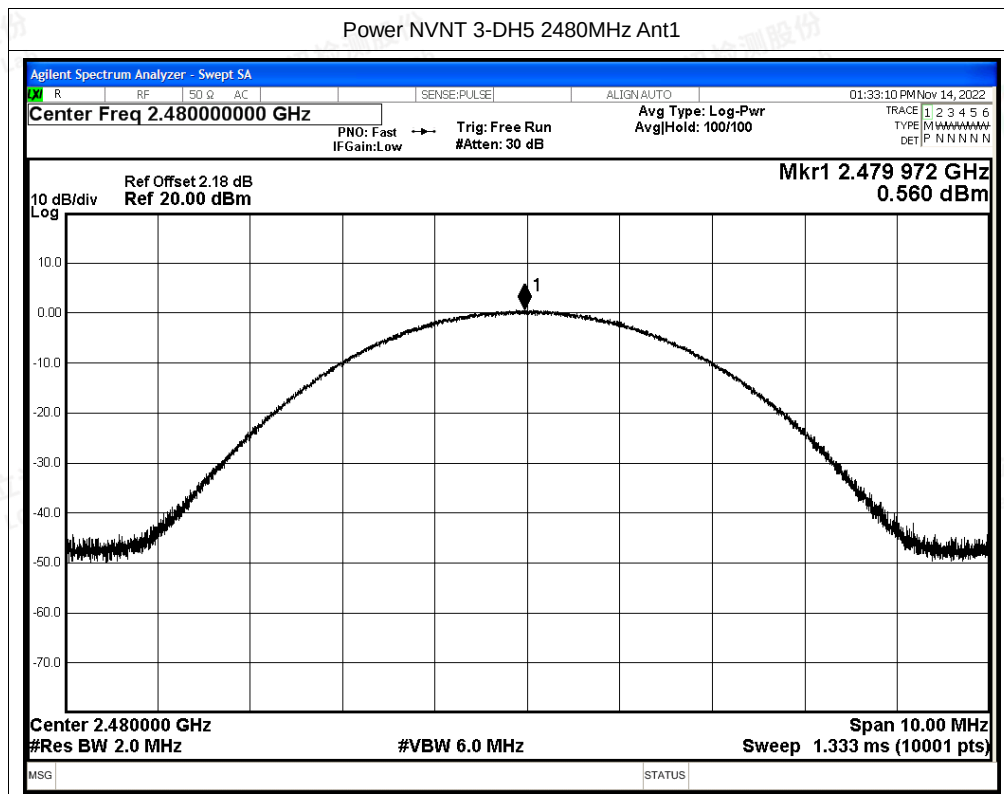


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### A.3 Carrier Frequencies Separation

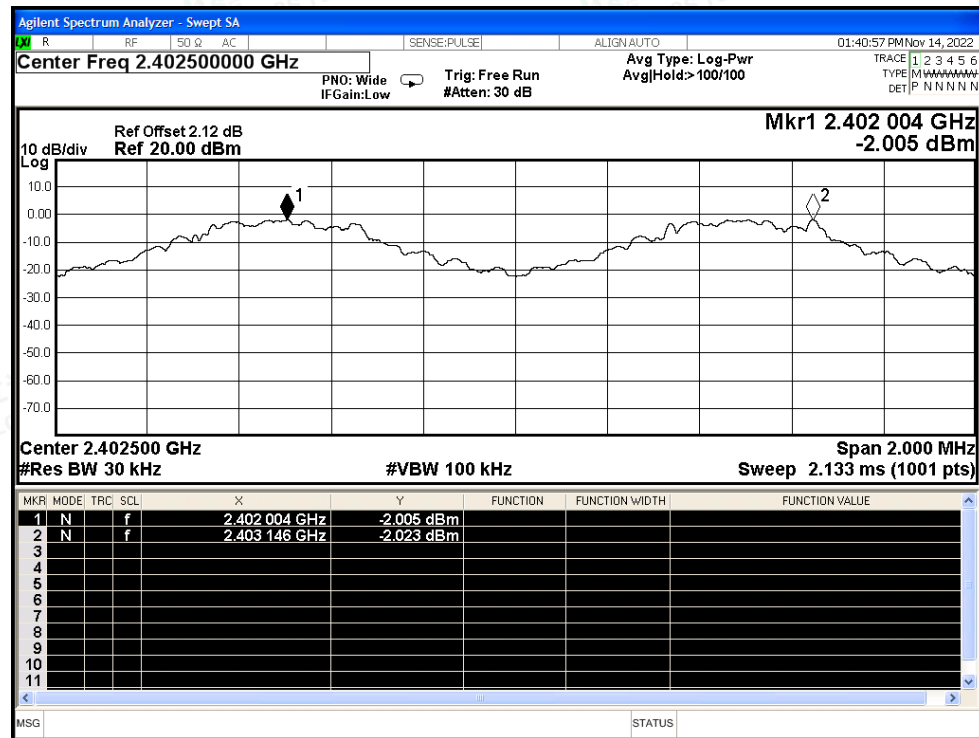
| Condition | Mode  | Antenna | Hopping Freq1 (MHz) | Hopping Freq2 (MHz) | HFS (MHz) | Limit (MHz) | Verdict |
|-----------|-------|---------|---------------------|---------------------|-----------|-------------|---------|
| NVNT      | 1-DH5 | Ant1    | 2402.004            | 2403.146            | 1.142     | 0.686       | Pass    |
| NVNT      | 2-DH5 | Ant1    | 2402.018            | 2403.138            | 1.12      | 0.860       | Pass    |
| NVNT      | 3-DH5 | Ant1    | 2402.144            | 2403.162            | 1.018     | 0.863       | Pass    |



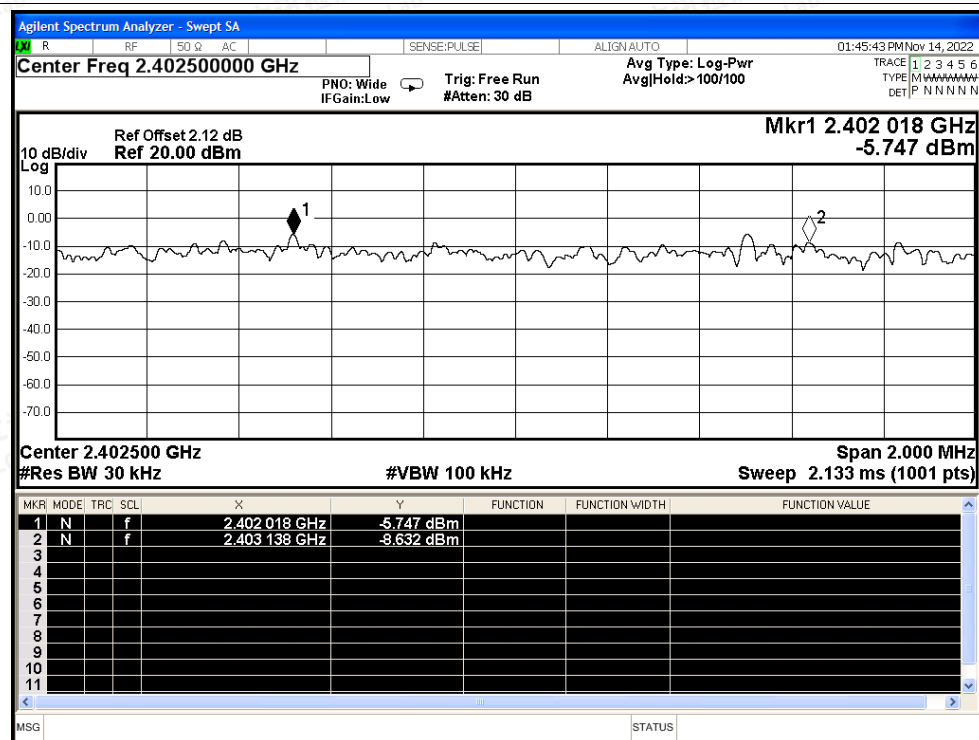


## Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1

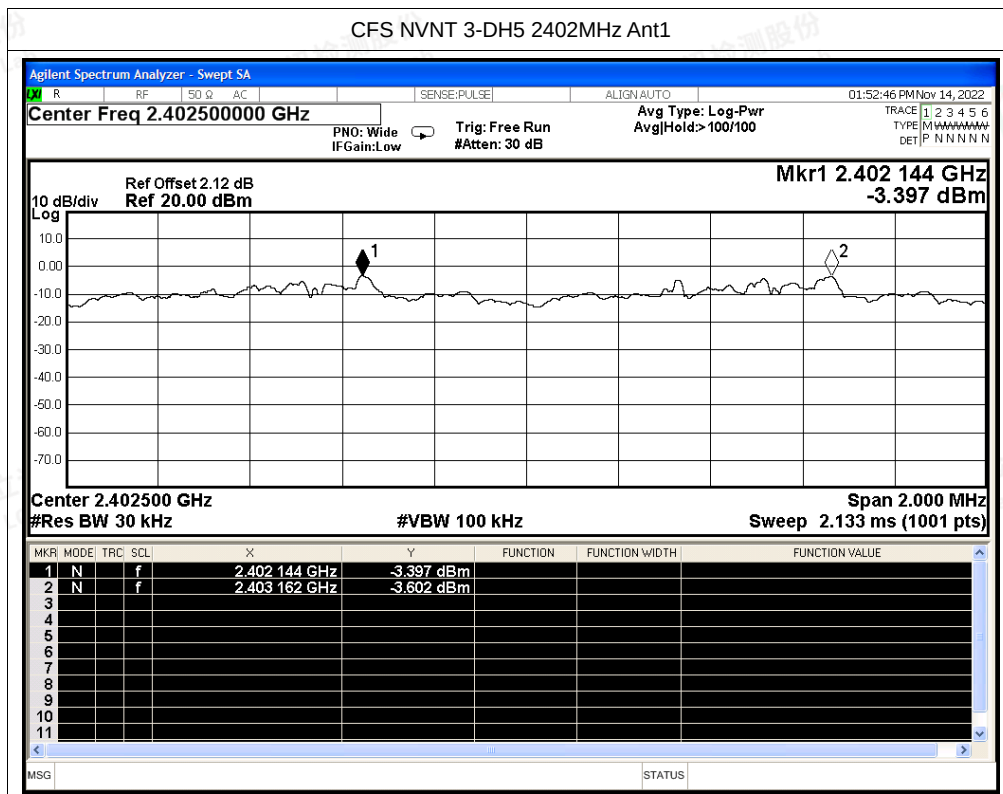


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## A.4 Dwell Time

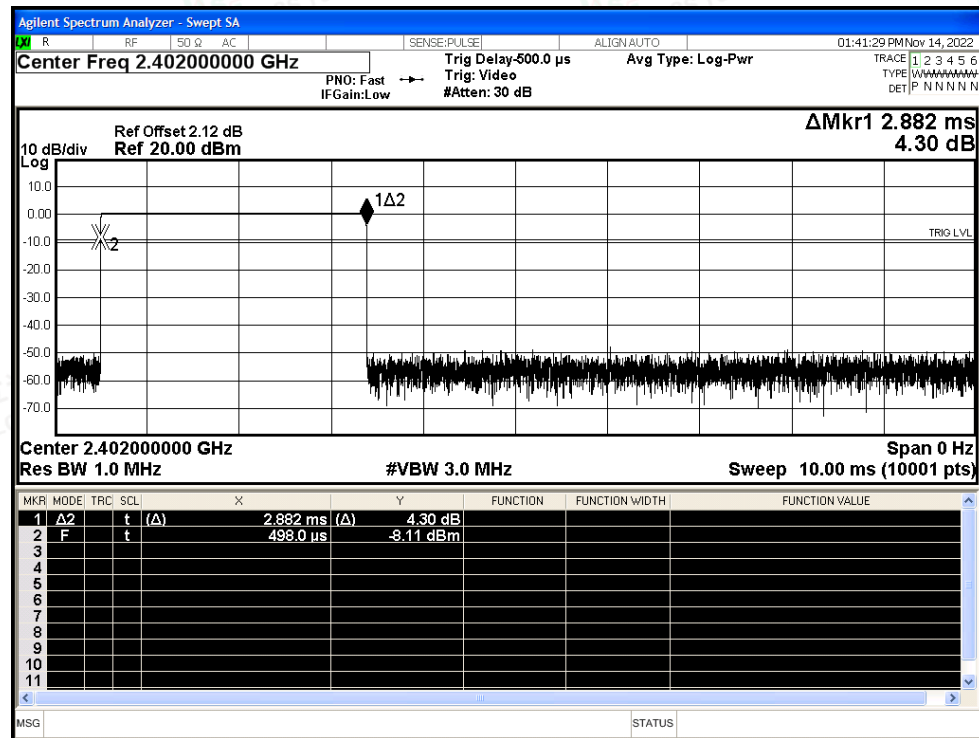
| Condition | Mode  | Frequency<br>(MHz) | Antenna | Pulse Time<br>(ms) | Total Dwell<br>Time (ms) | Burst<br>Count | Period Time<br>(ms) | Limit<br>(ms) | Verdict |
|-----------|-------|--------------------|---------|--------------------|--------------------------|----------------|---------------------|---------------|---------|
| NVNT      | 1-DH5 | 2402               | Ant1    | 2.882              | 279.554                  | 97             | 31600               | 400           | Pass    |
| NVNT      | 2-DH5 | 2402               | Ant1    | 2.885              | 297.155                  | 103            | 31600               | 400           | Pass    |
| NVNT      | 3-DH5 | 2402               | Ant1    | 2.886              | 288.6                    | 100            | 31600               | 400           | Pass    |



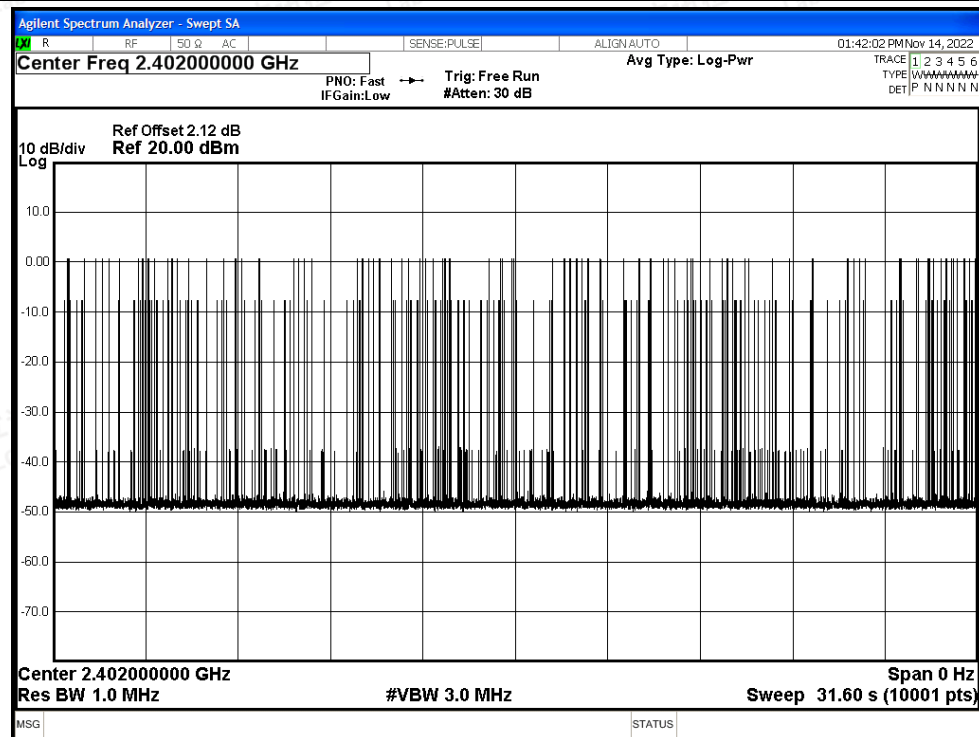


## Test Graphs

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



## Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

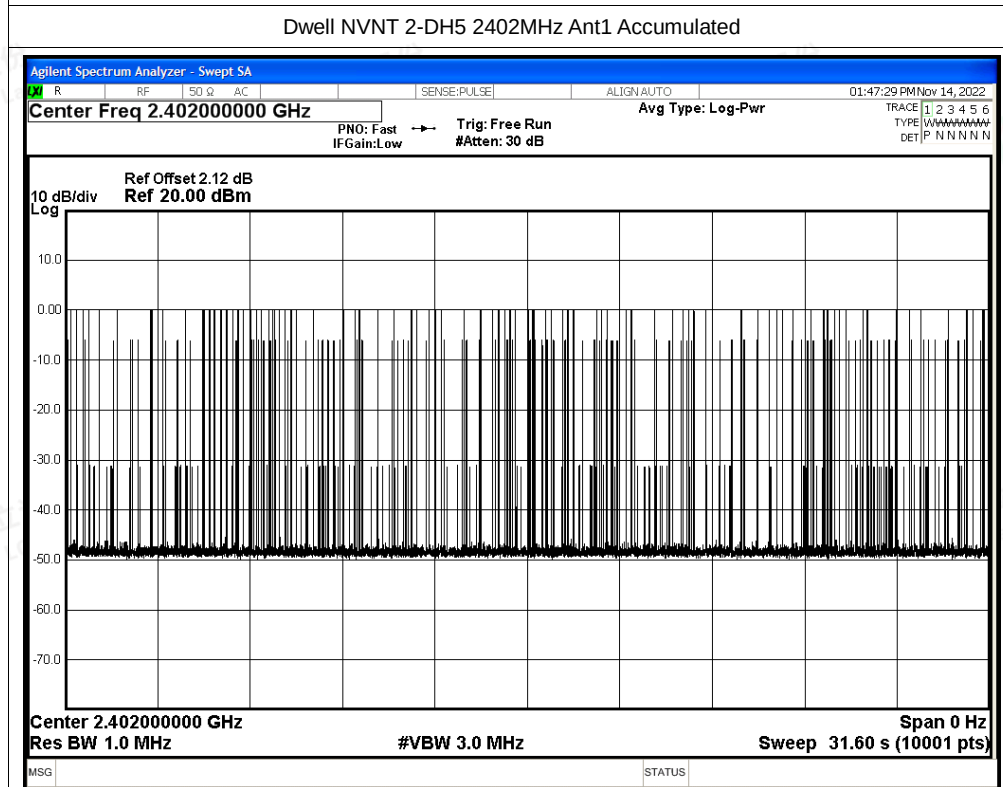
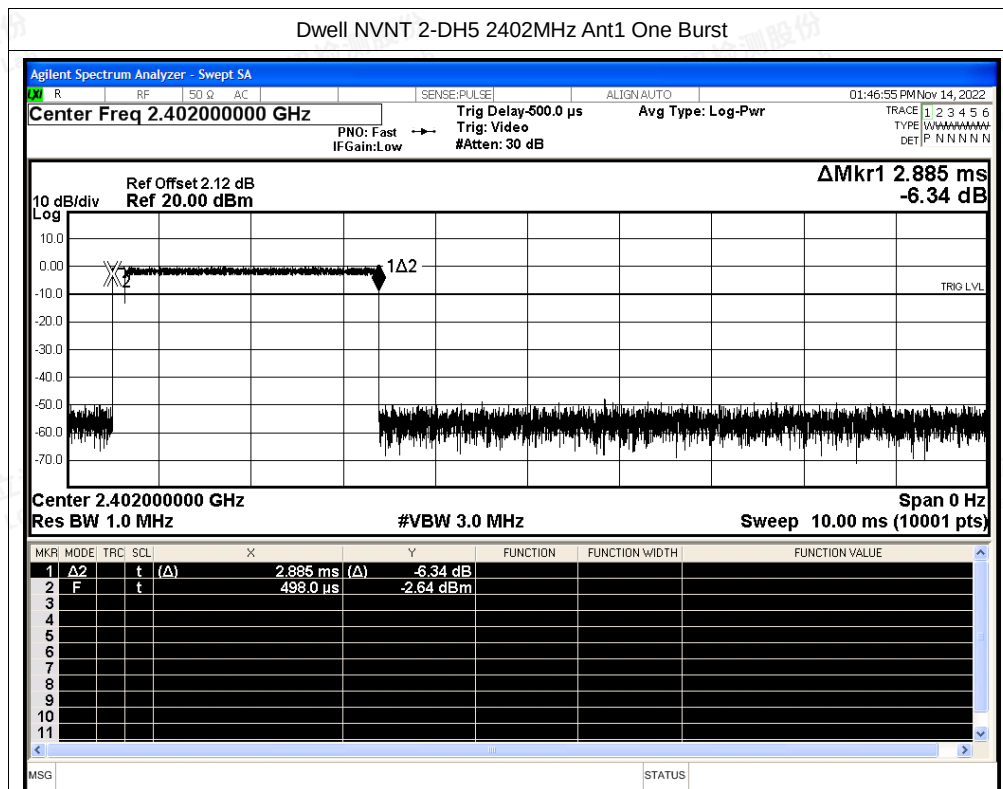


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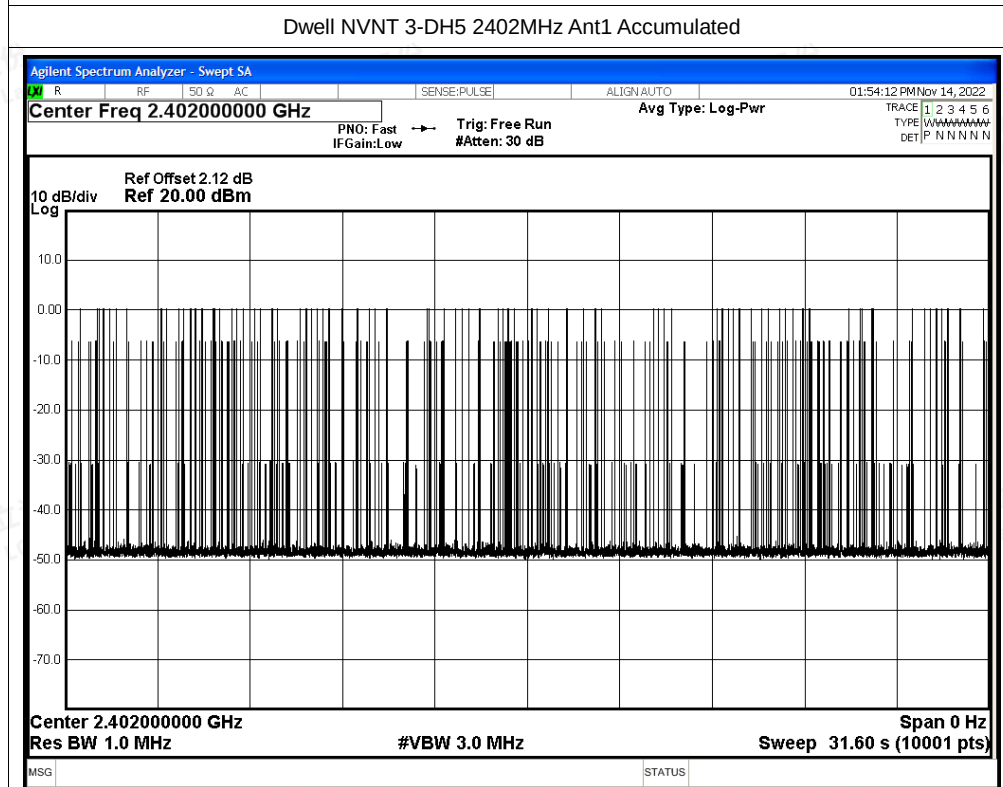
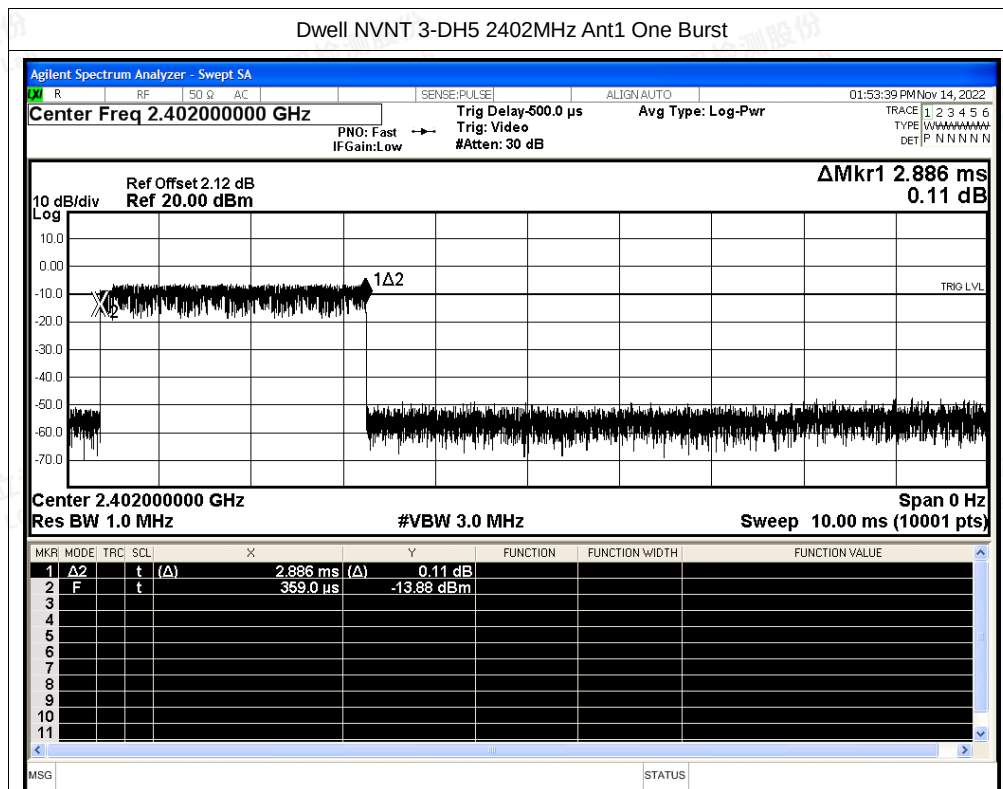


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## A.5 Number of Hopping Channel

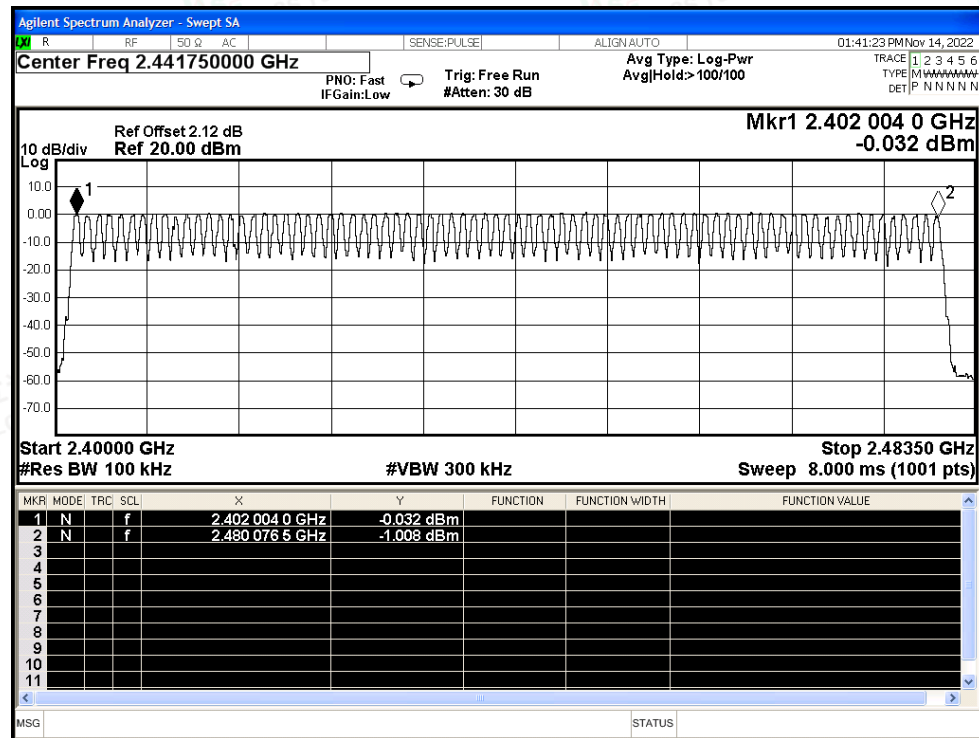
| Condition | Mode  | Antenna | Hopping Number | Limit | Verdict |
|-----------|-------|---------|----------------|-------|---------|
| NVNT      | 1-DH5 | Ant1    | 79             | 15    | Pass    |
| NVNT      | 2-DH5 | Ant1    | 79             | 15    | Pass    |
| NVNT      | 3-DH5 | Ant1    | 79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



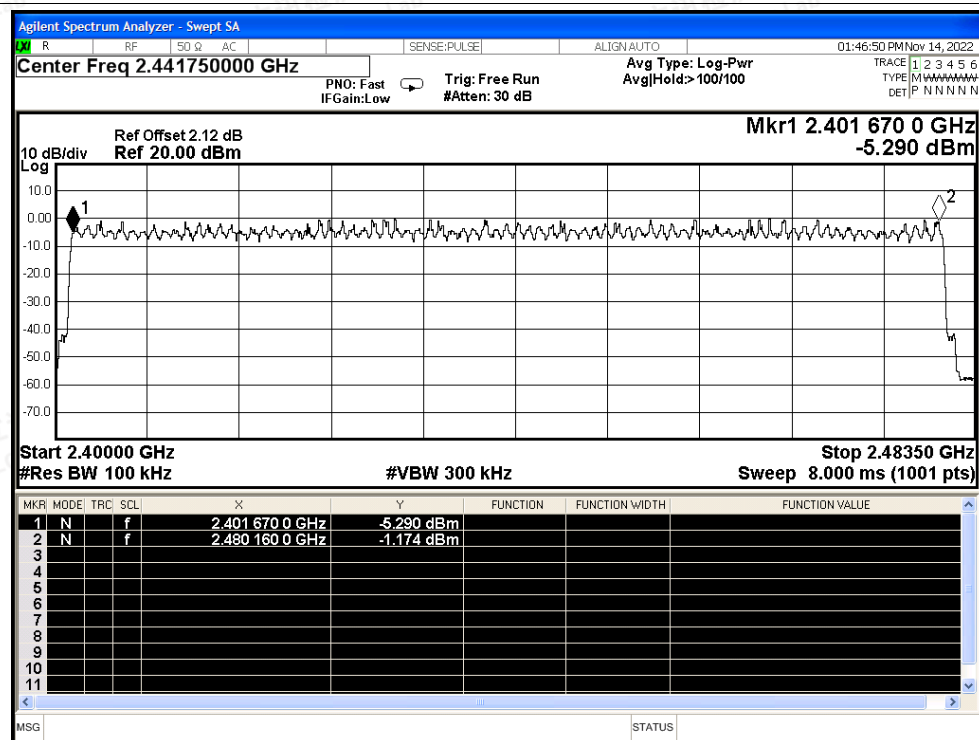


## Test Graphs

## Hopping No. NVNT 1-DH5 2402MHz Ant1



## Hopping No. NVNT 2-DH5 2402MHz Ant1

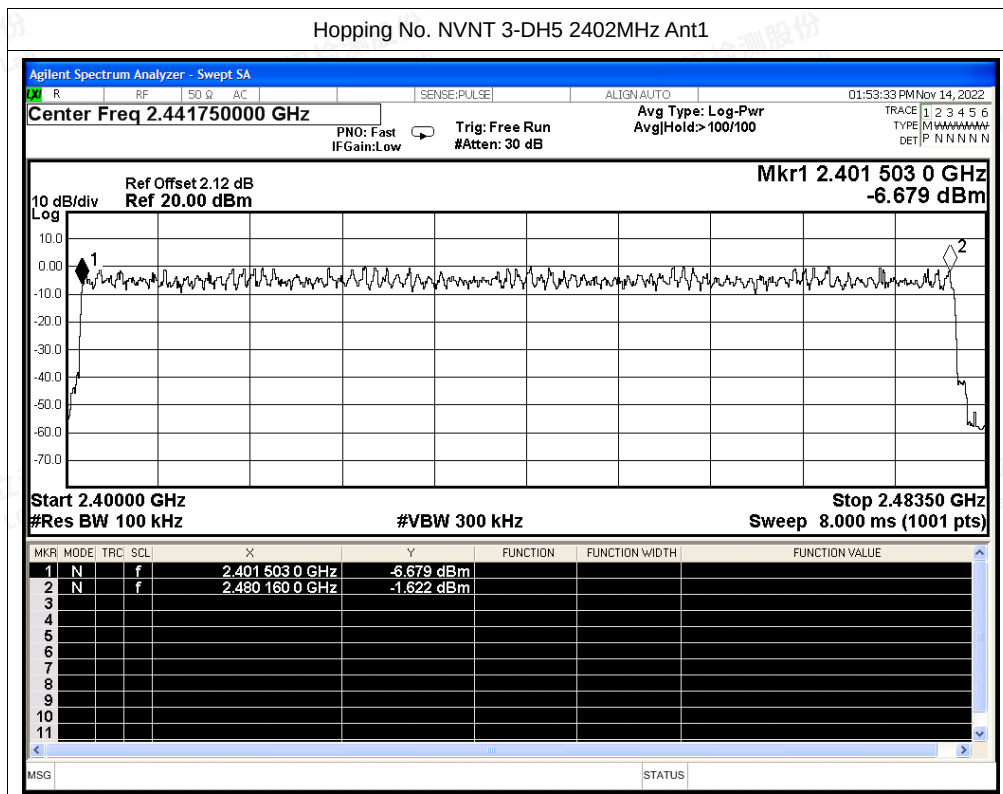


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## A.6 Band Edge

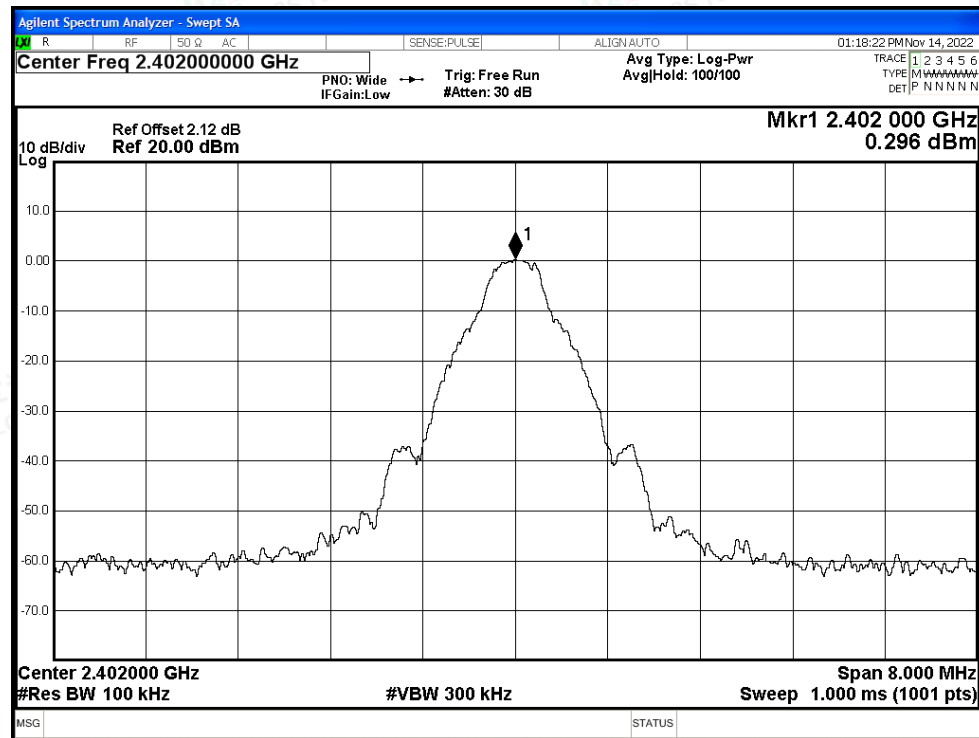
| Condition | Mode  | Frequency (MHz) | Antenna | Hopping Mode | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|-------|-----------------|---------|--------------|-----------------|-------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | No-Hopping   | -56.63          | -20         | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | No-Hopping   | -57.25          | -20         | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | No-Hopping   | -54.12          | -20         | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | No-Hopping   | -56.64          | -20         | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | No-Hopping   | -54.43          | -20         | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | No-Hopping   | -55.66          | -20         | Pass    |



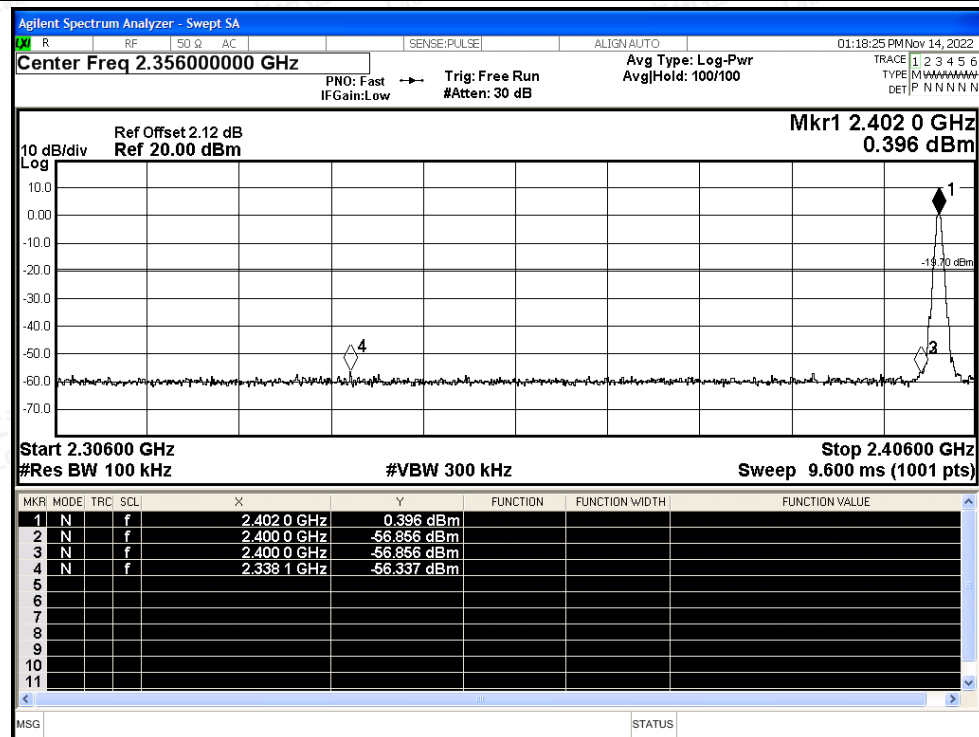


## Test Graphs

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



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



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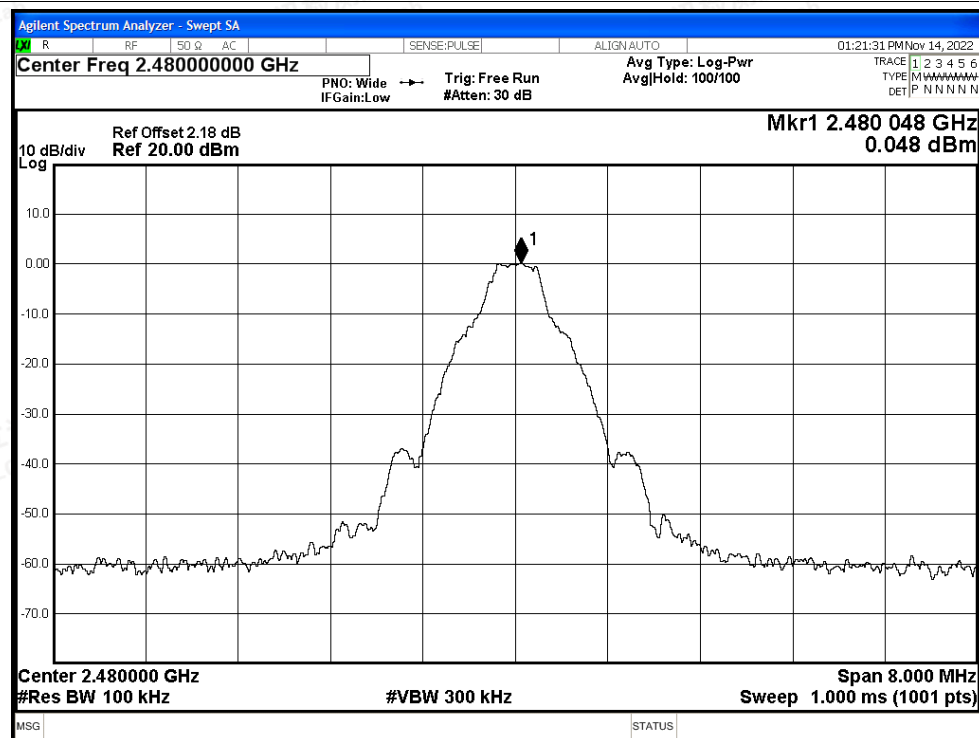
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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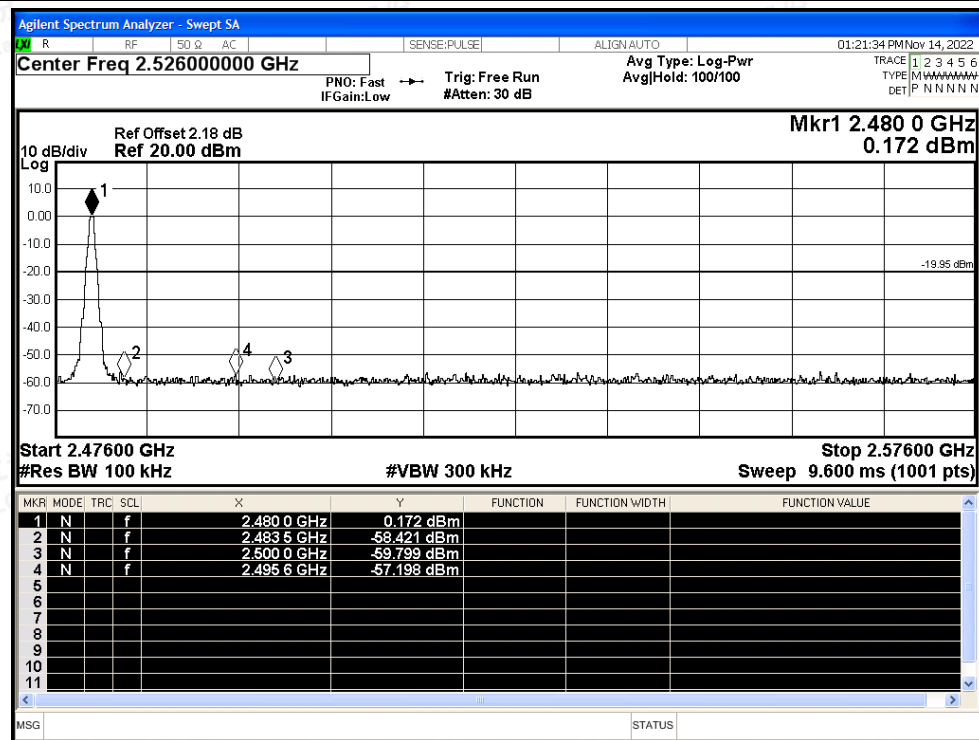
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## Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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

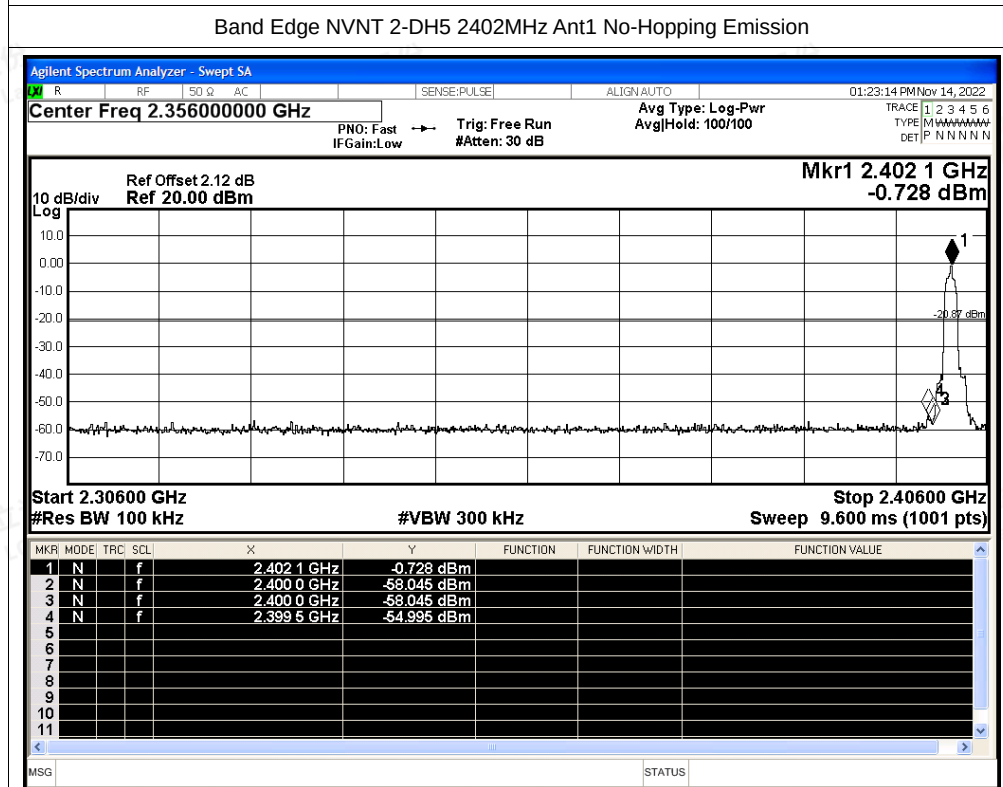
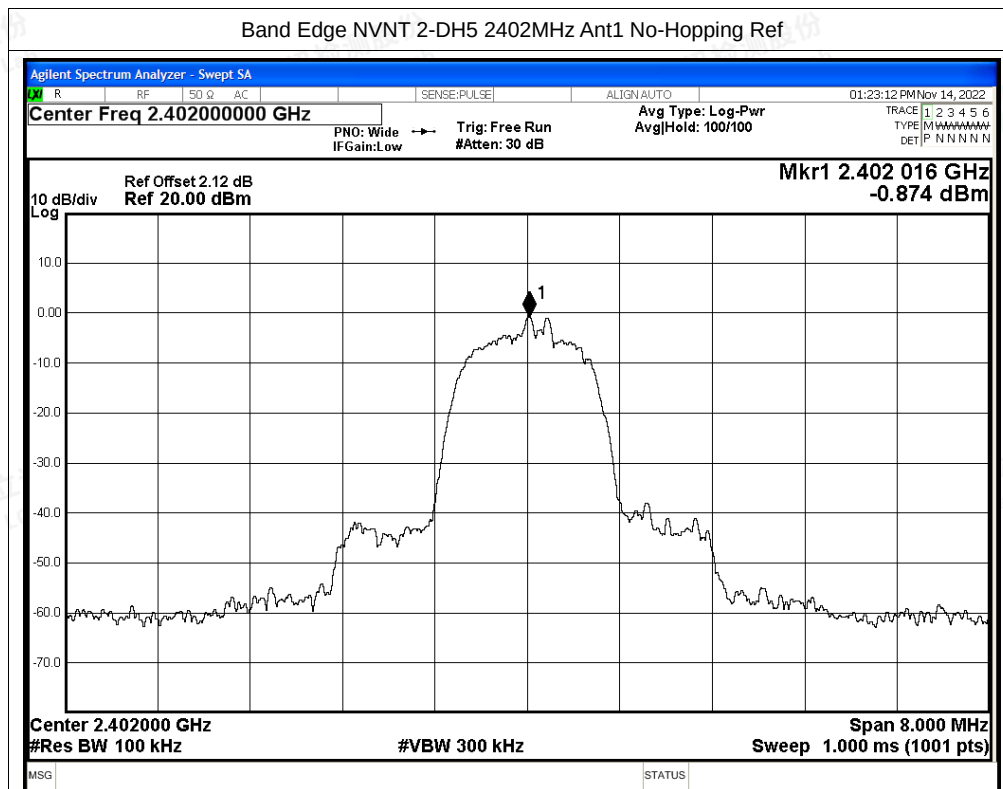


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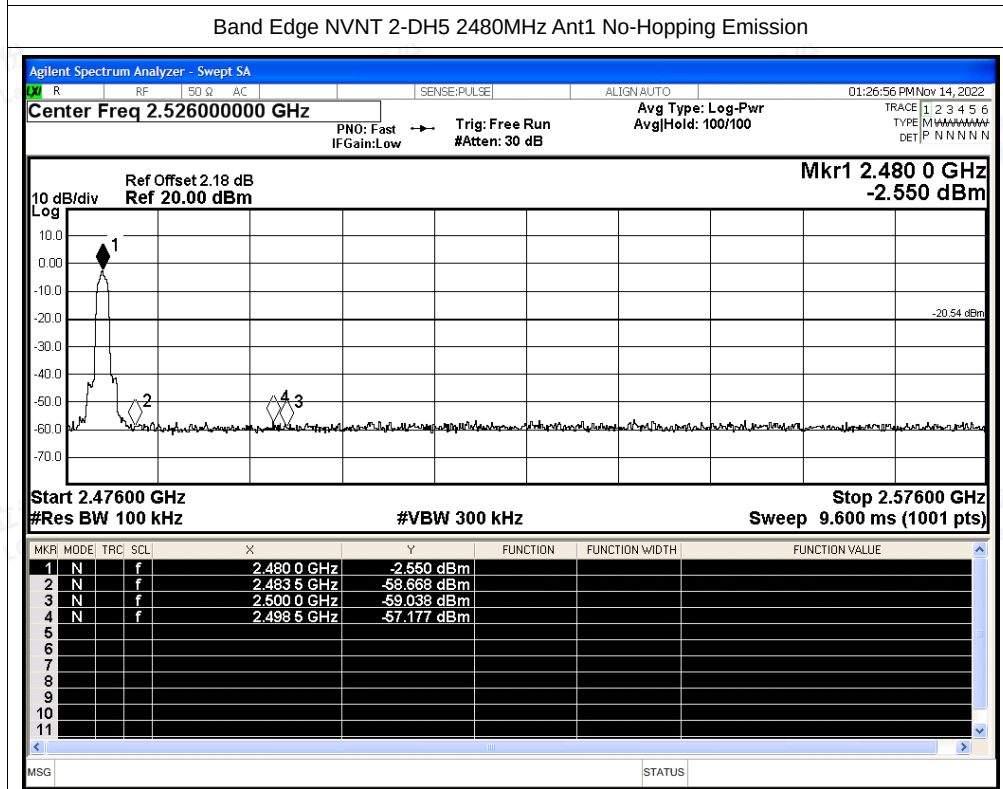
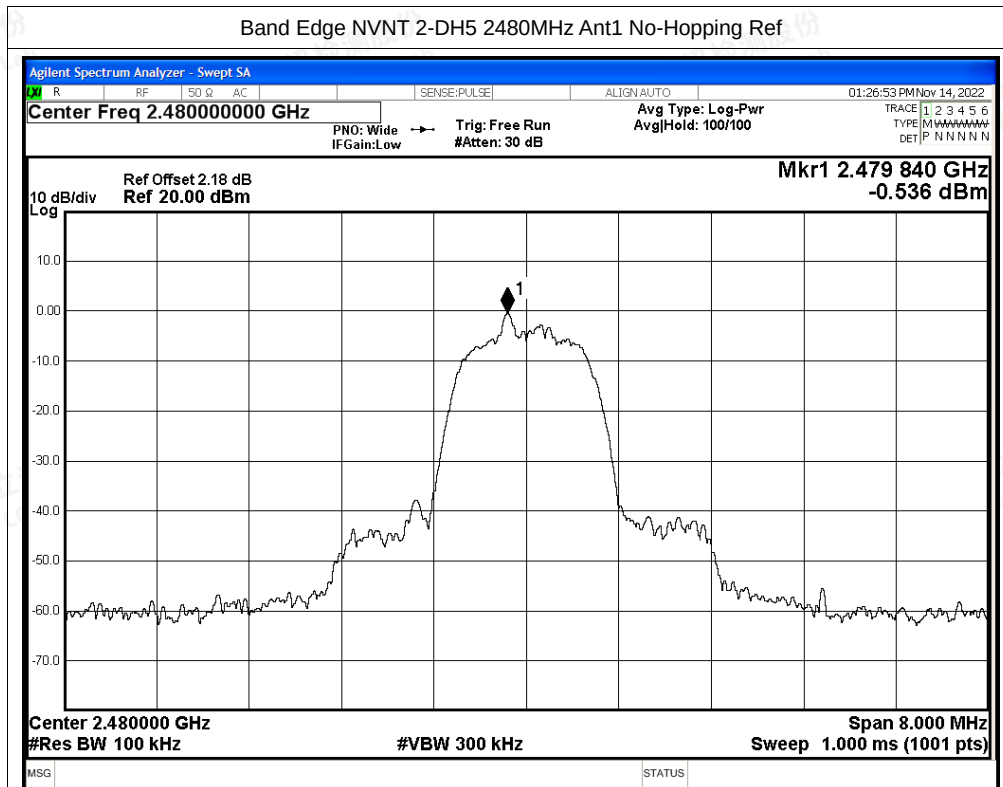


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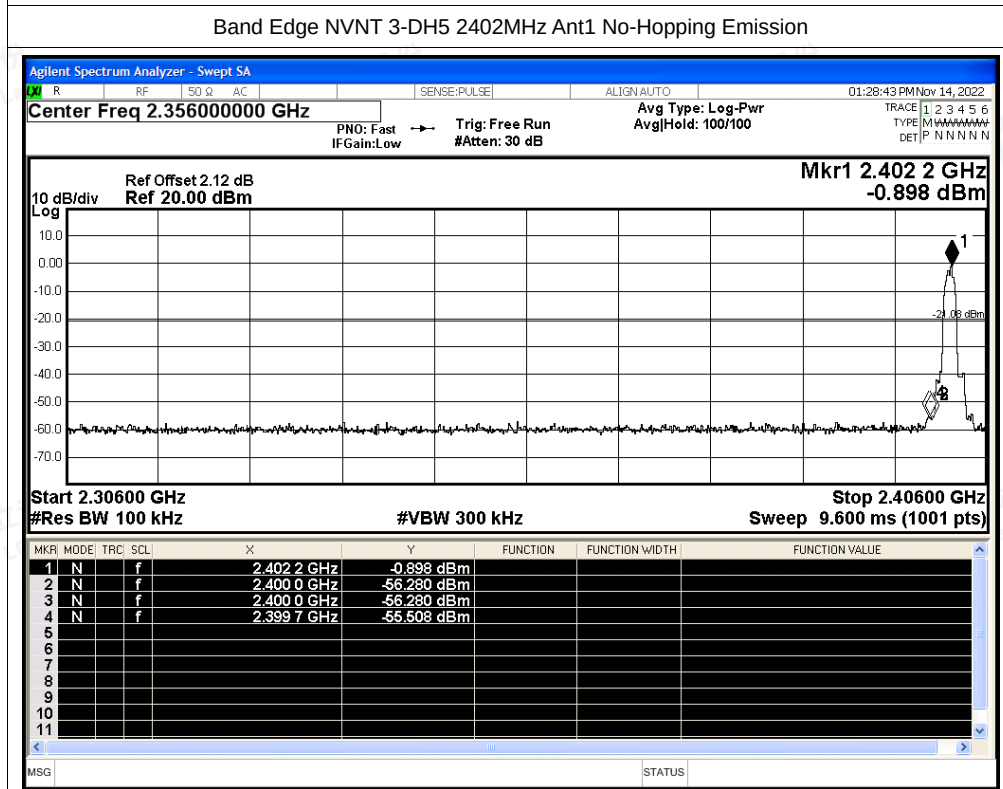
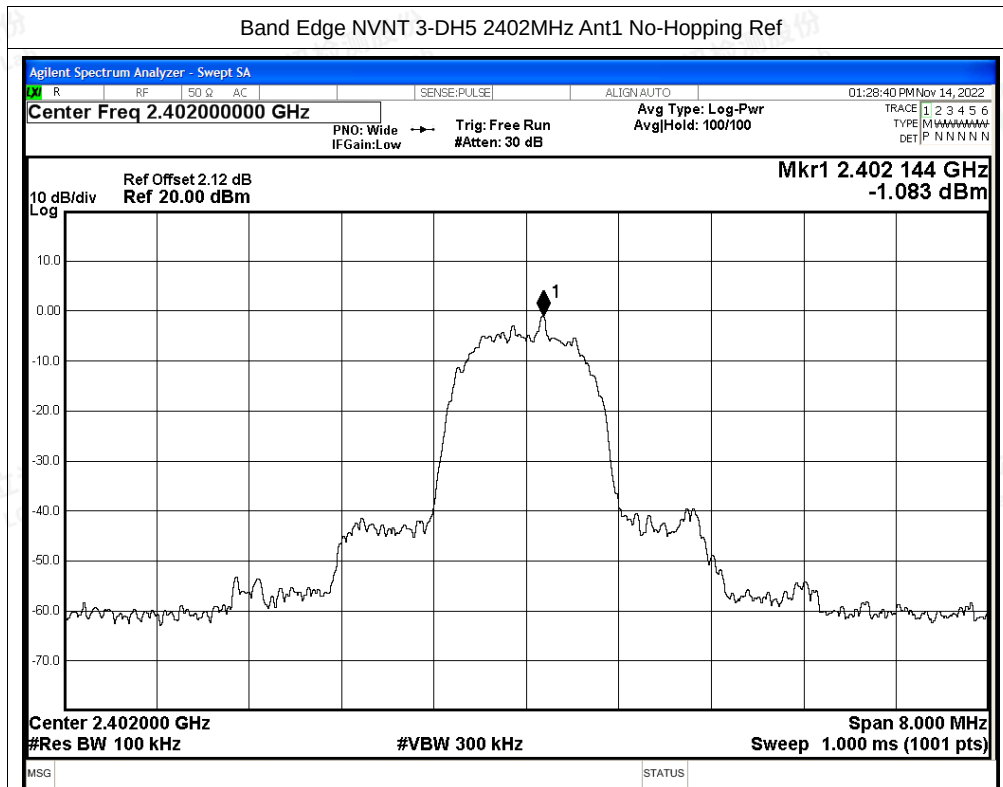


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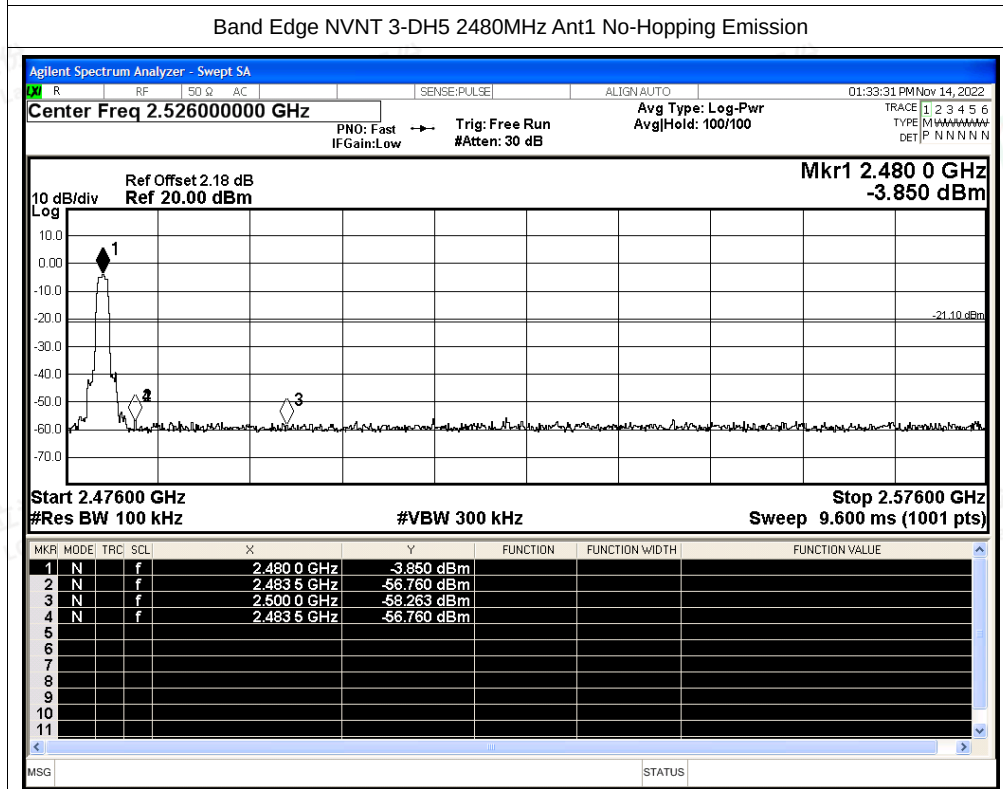
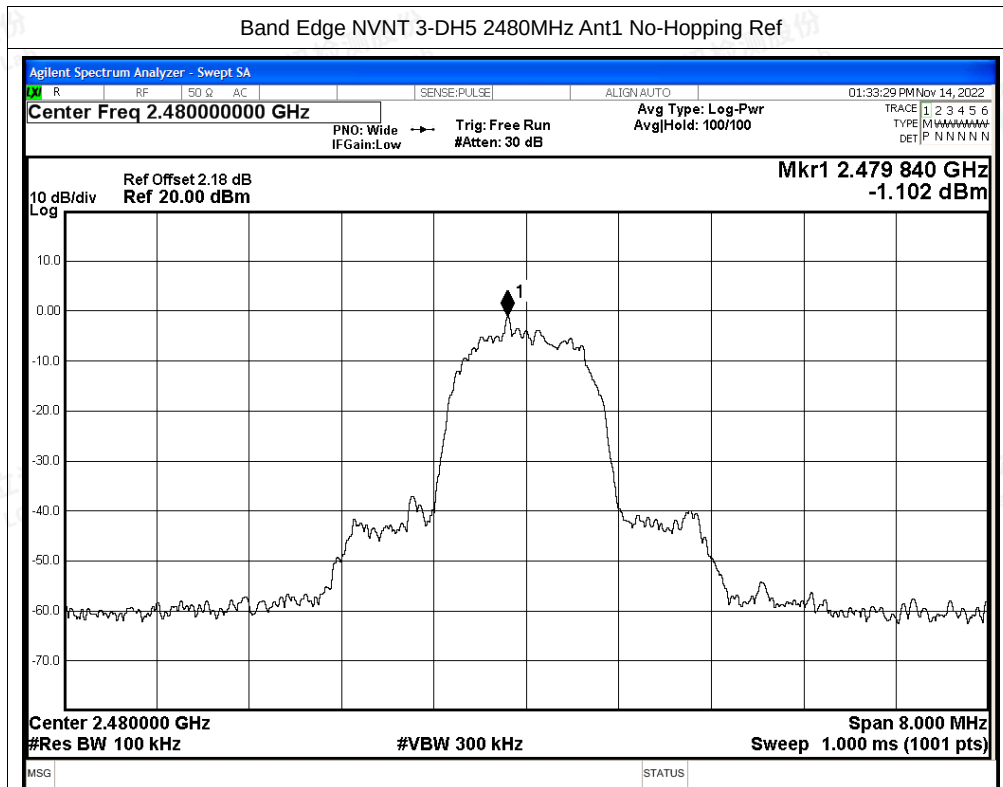


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## (Hopping)

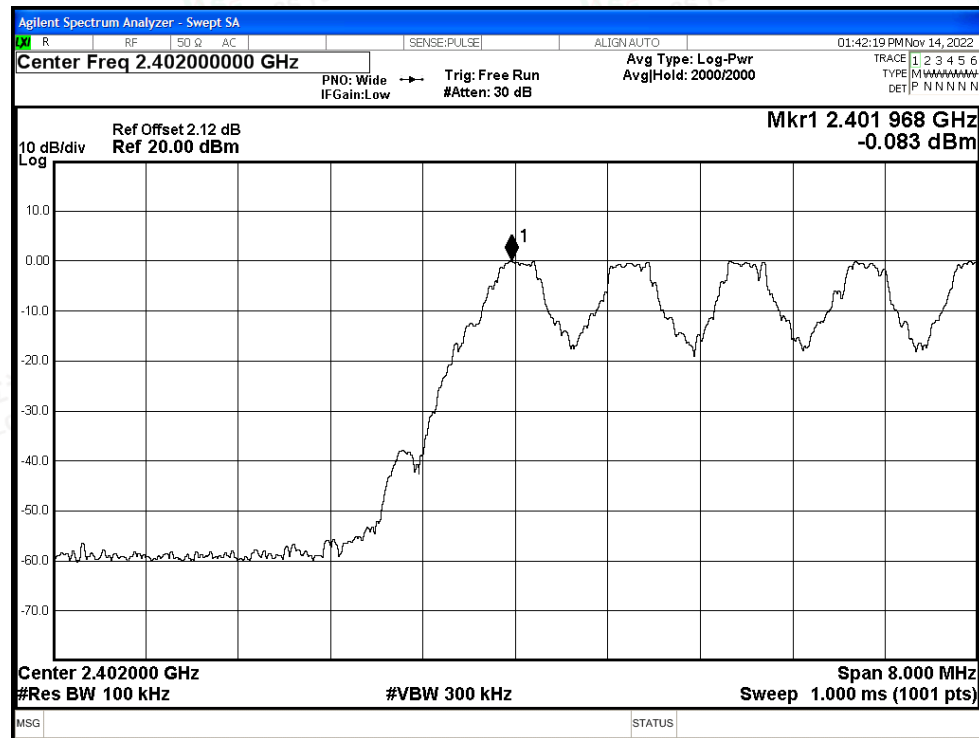
| Condition | Mode  | Frequency (MHz) | Antenna | Hopping Mode | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|-------|-----------------|---------|--------------|-----------------|-------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | Hopping      | -55.69          | -20         | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | Hopping      | -54.68          | -20         | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | Hopping      | -55.26          | -20         | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | Hopping      | -53.39          | -20         | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | Hopping      | -54.57          | -20         | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | Hopping      | -55.49          | -20         | Pass    |



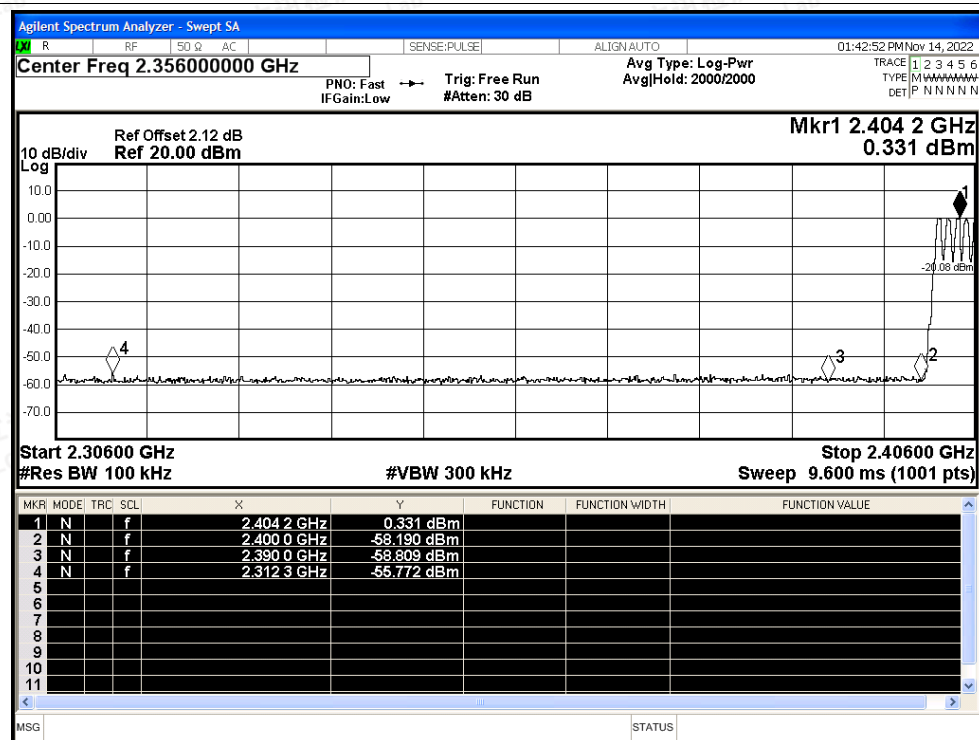


## Test Graphs

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



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

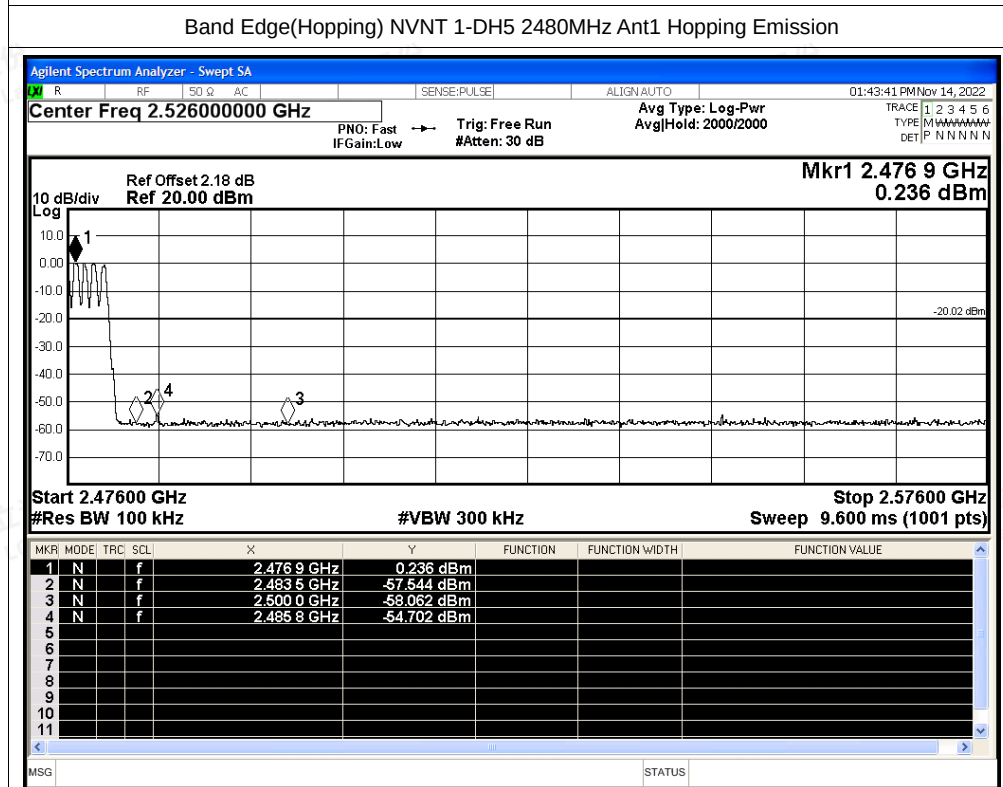
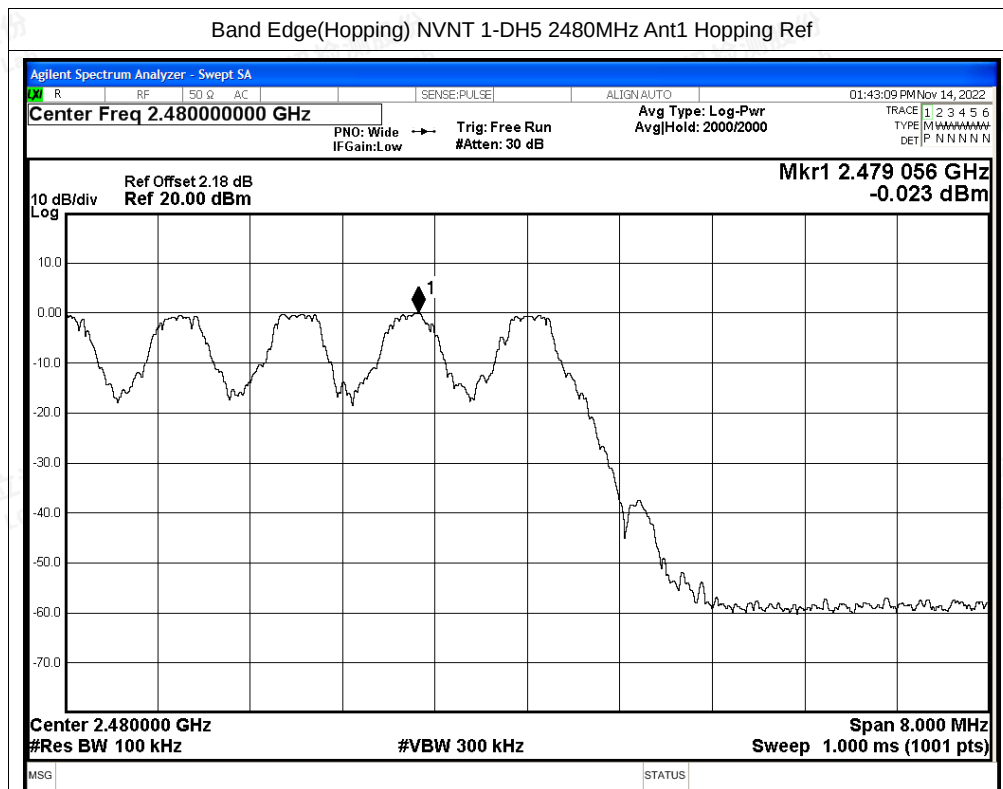


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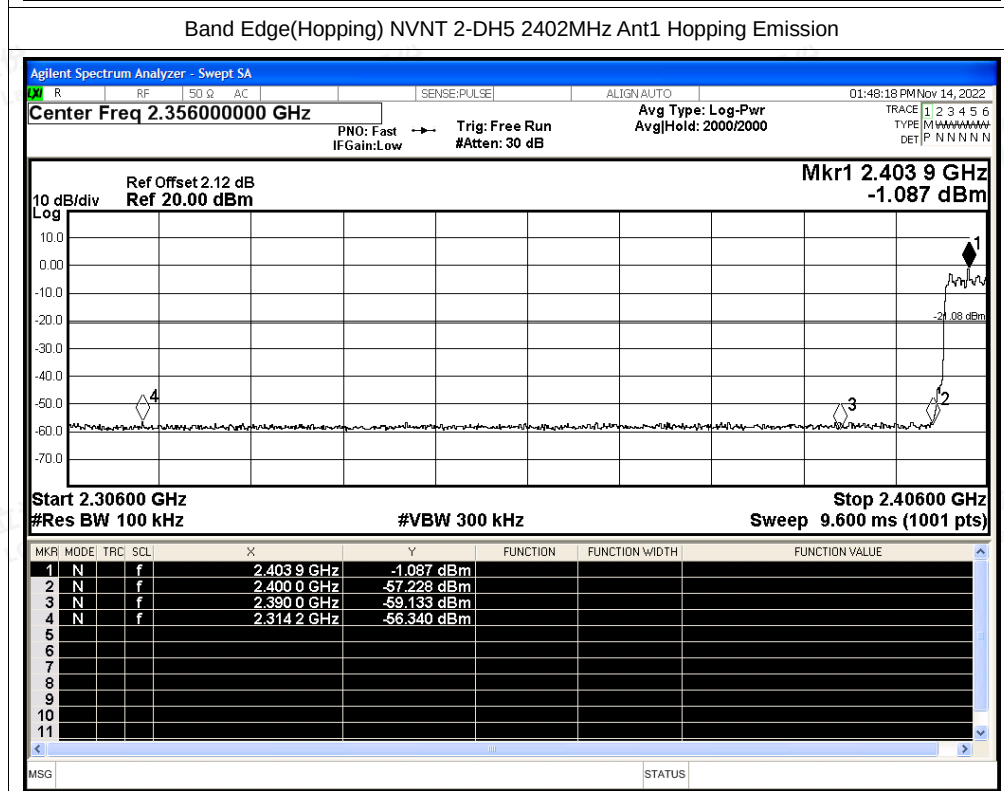
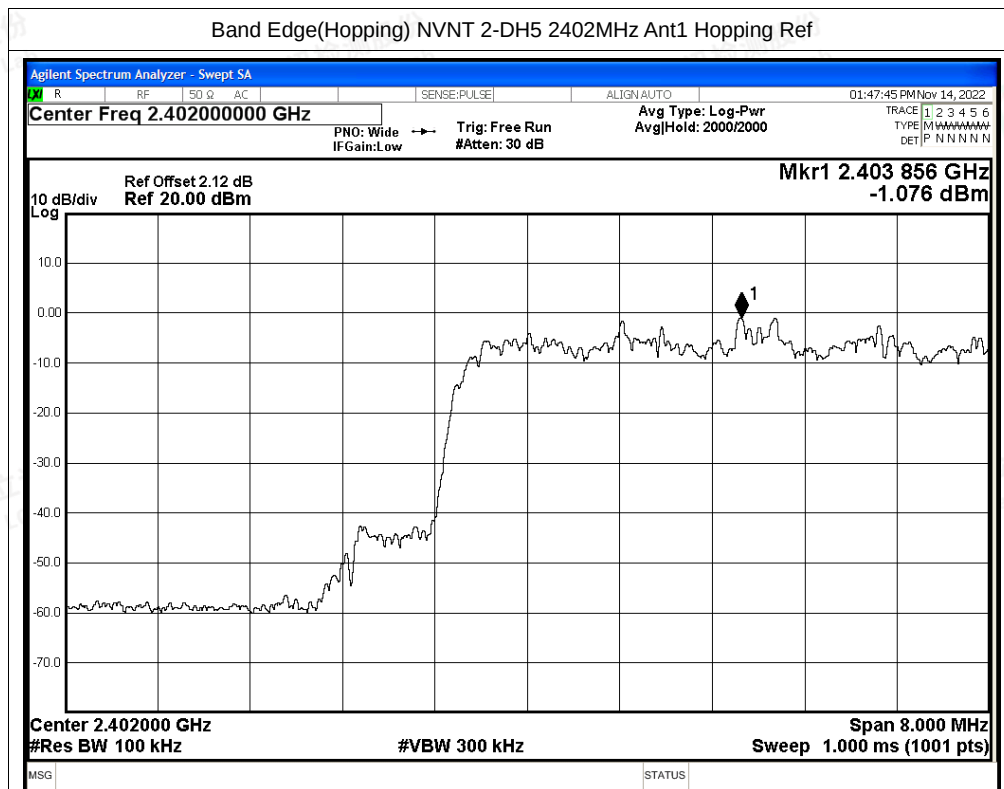


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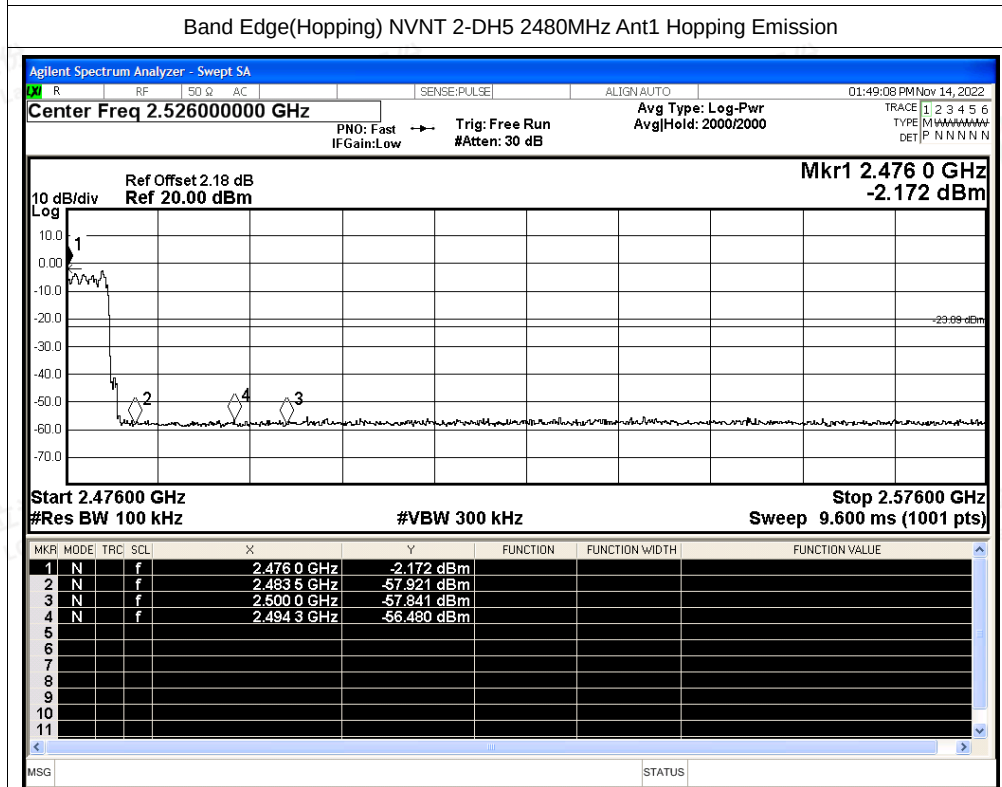
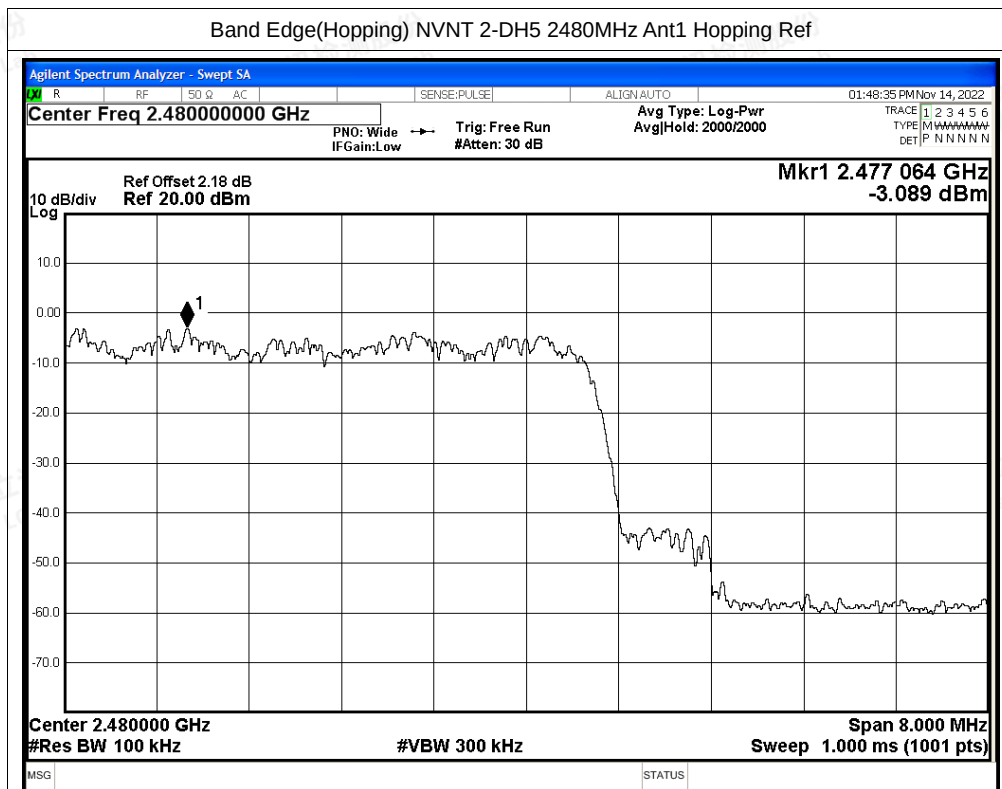


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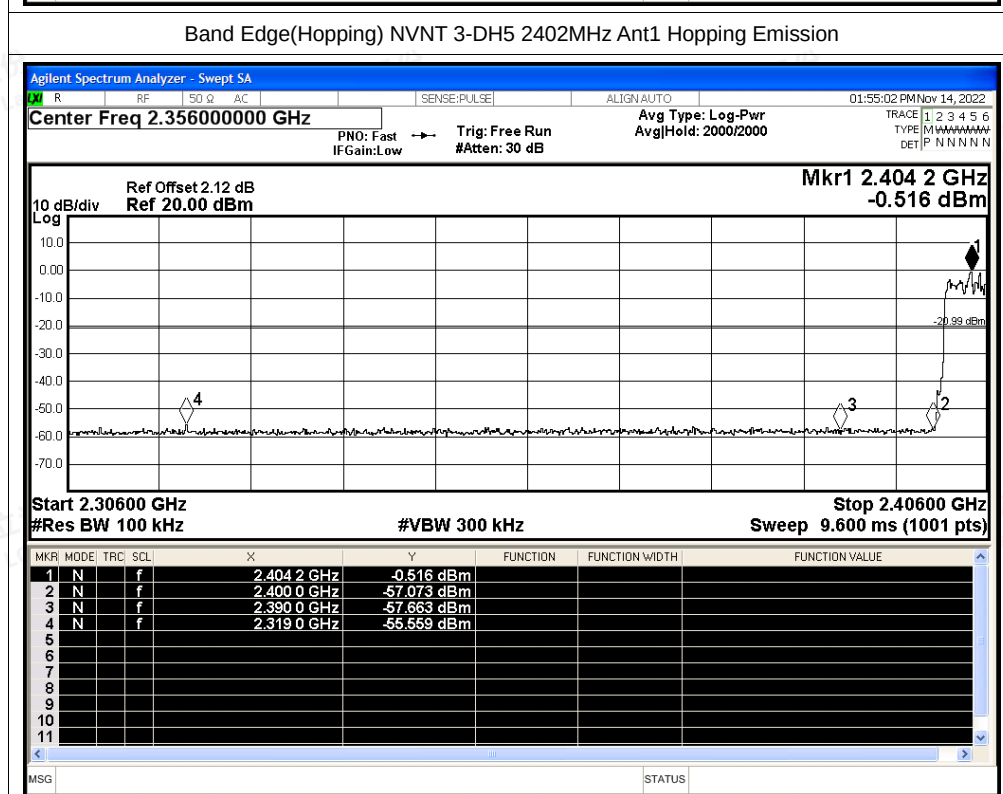
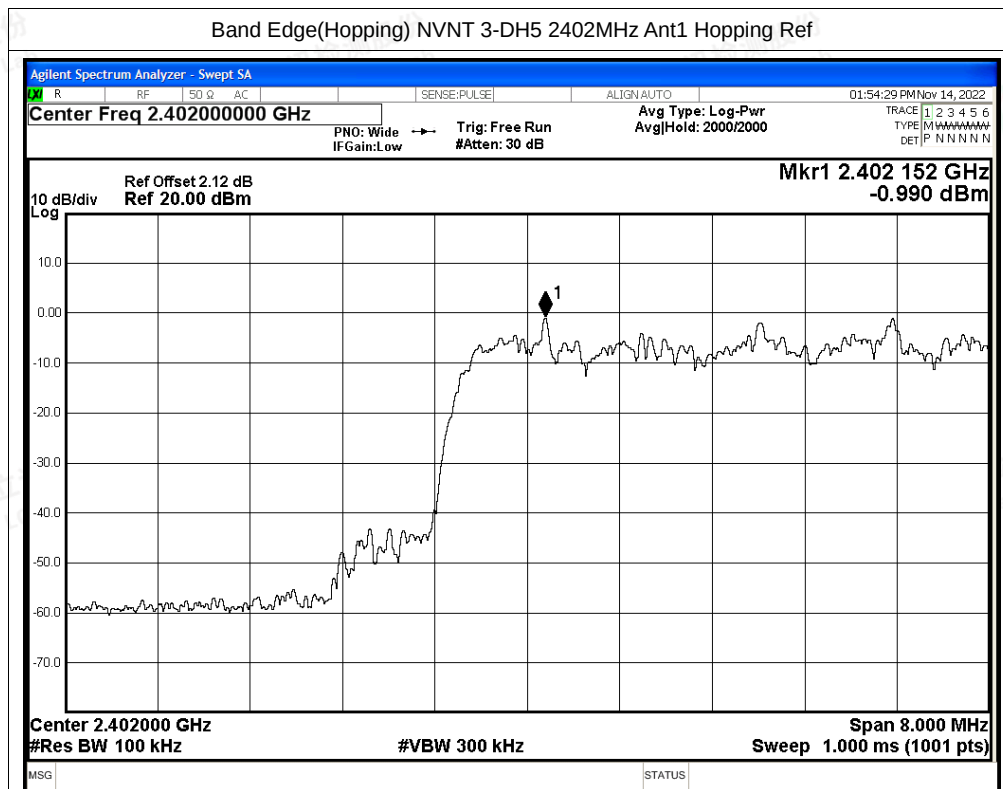


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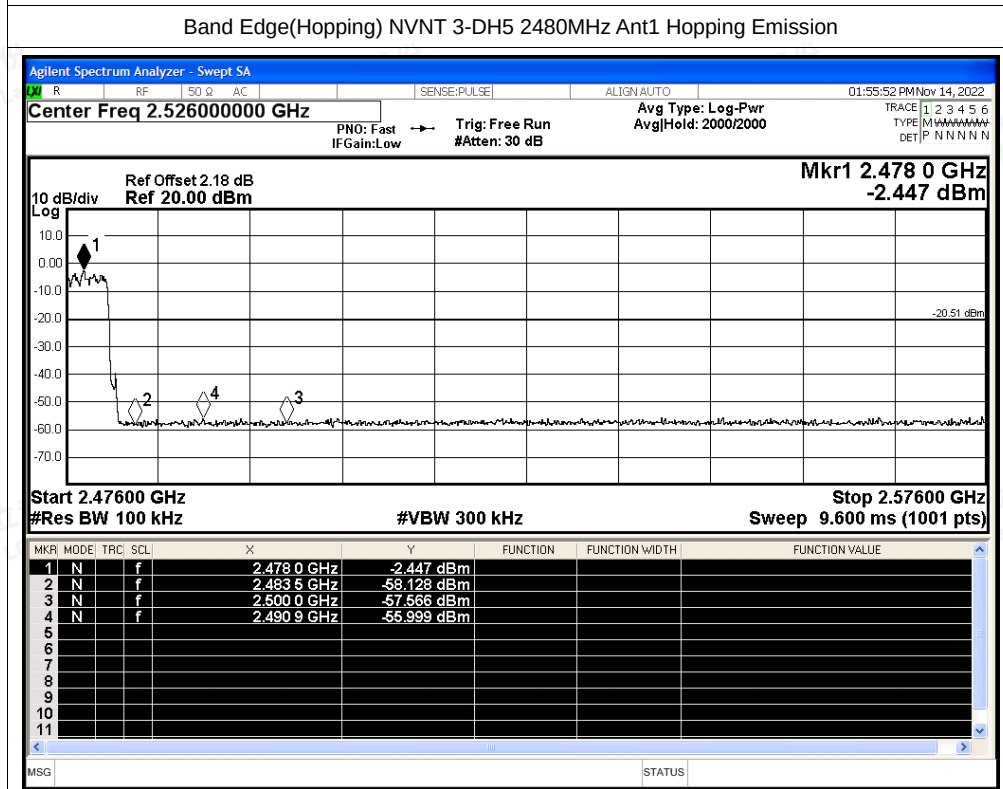
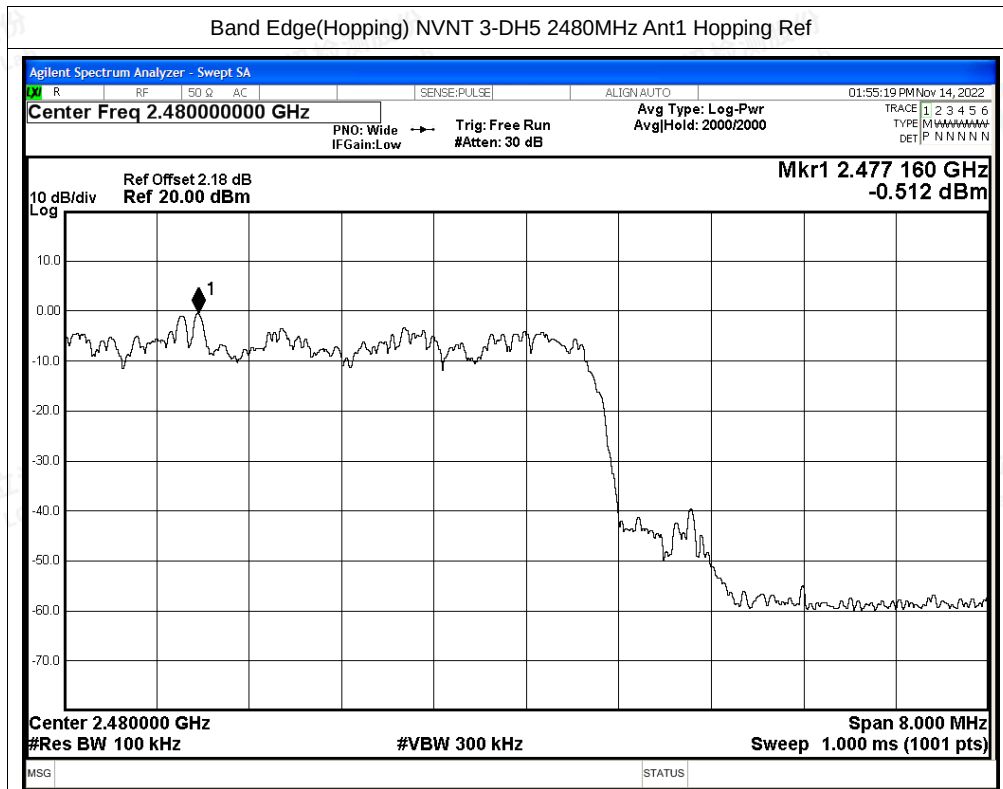


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## A.7 Conducted RF Spurious Emission

| Condition | Mode  | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|-------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | -55.29          | -20         | Pass    |
| NVNT      | 1-DH5 | 2441            | Ant1    | -55.92          | -20         | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | -55.68          | -20         | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | -54.49          | -20         | Pass    |
| NVNT      | 2-DH5 | 2441            | Ant1    | -54.36          | -20         | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | -53.62          | -20         | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | -55.12          | -20         | Pass    |
| NVNT      | 3-DH5 | 2441            | Ant1    | -54.48          | -20         | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | -53.57          | -20         | Pass    |



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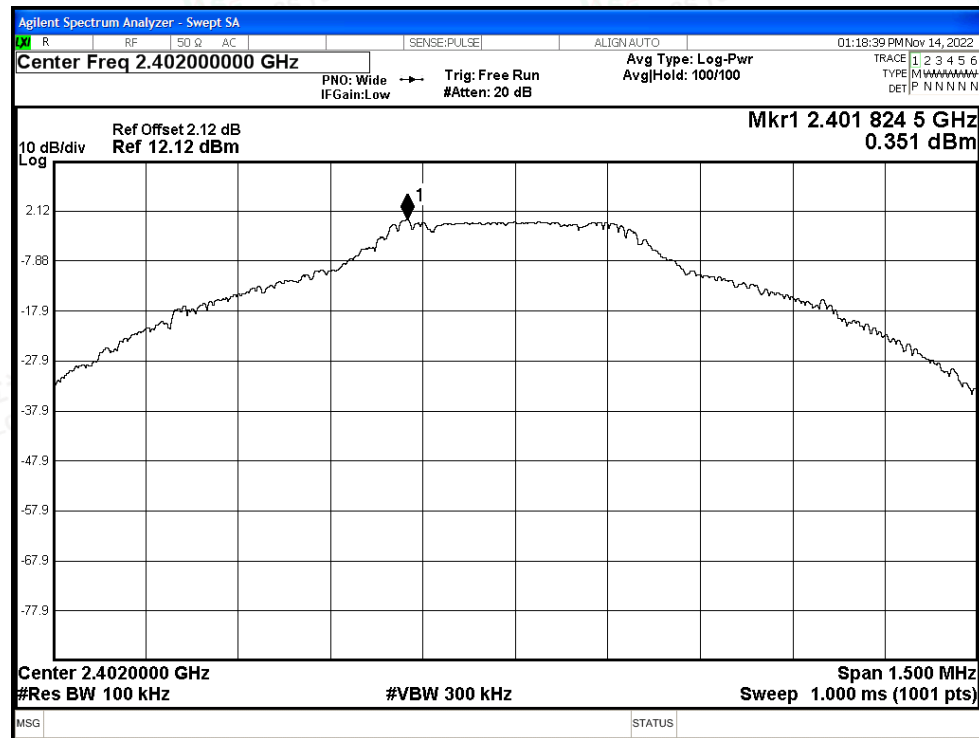
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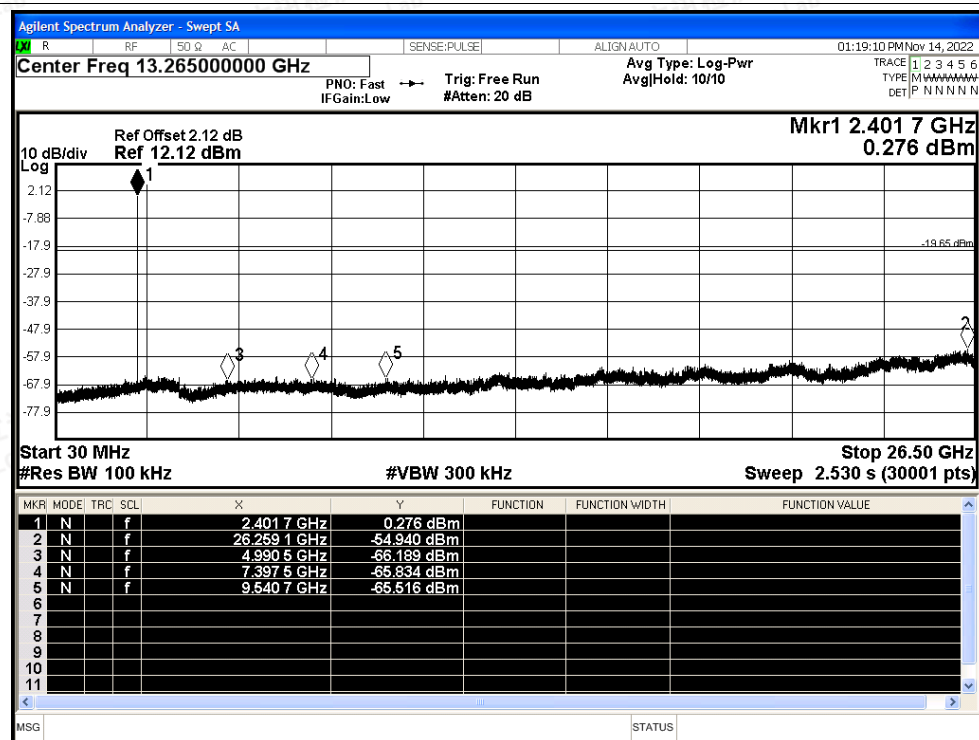


## Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

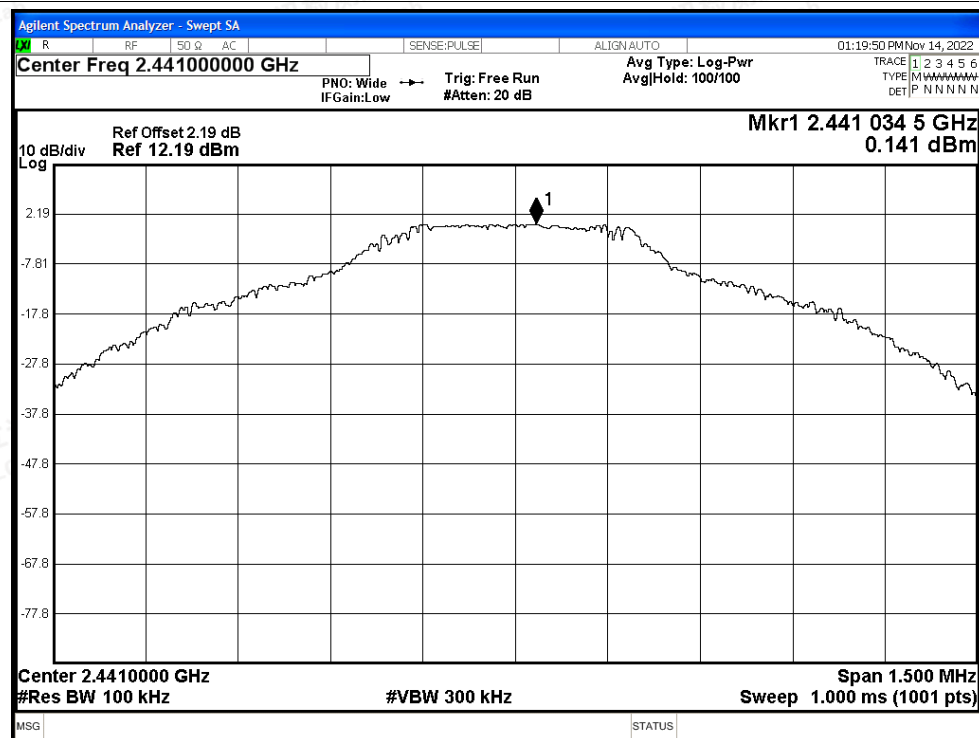
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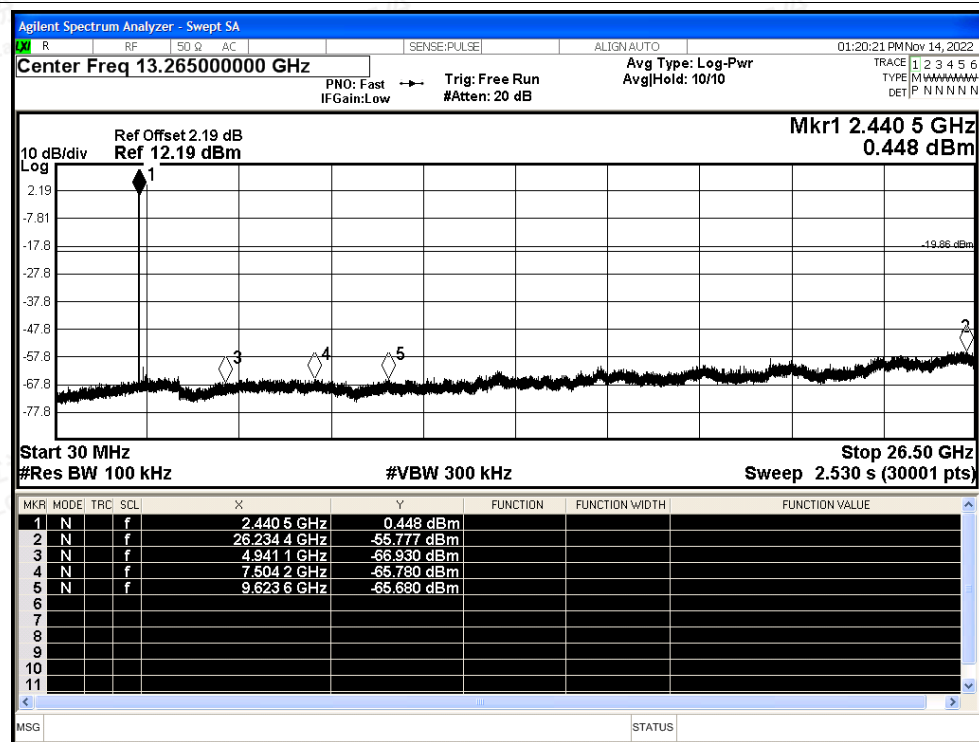
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

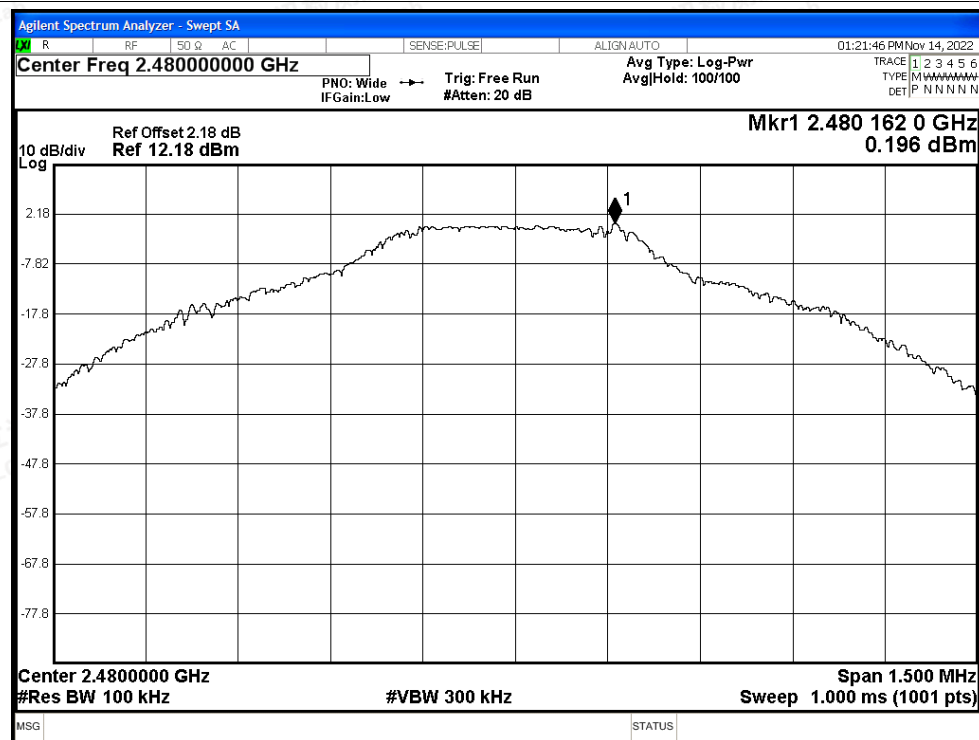
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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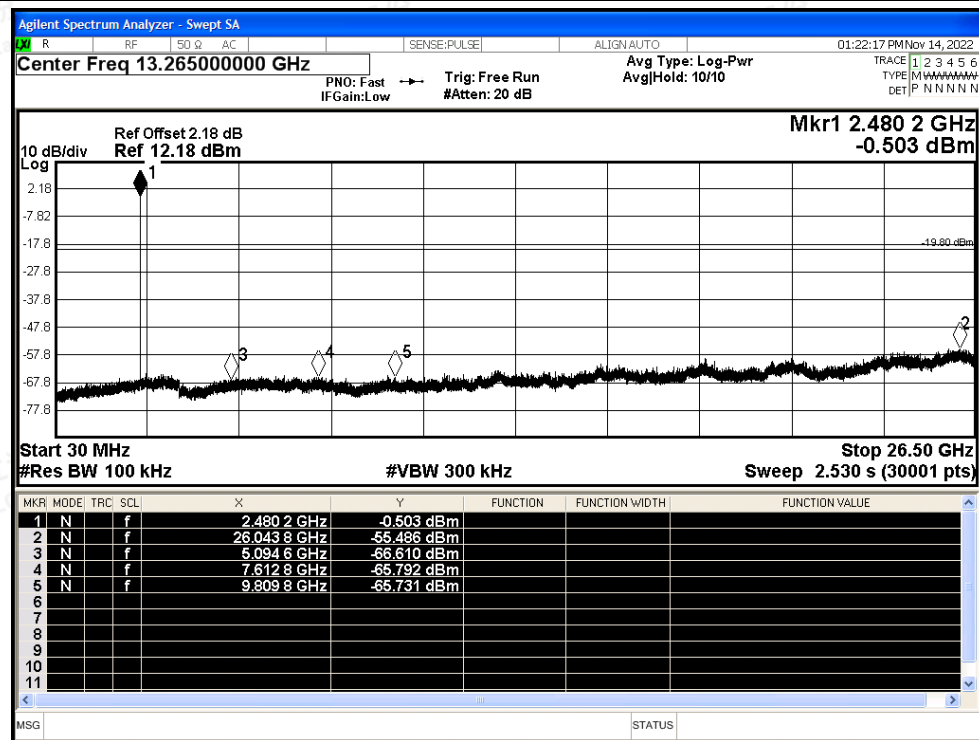
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

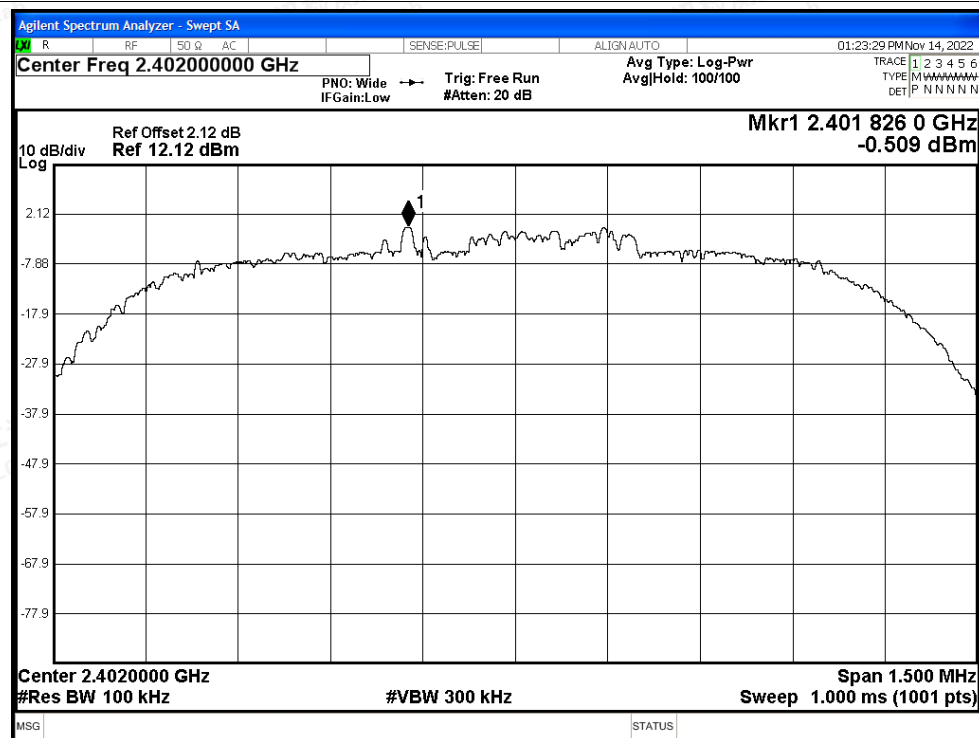
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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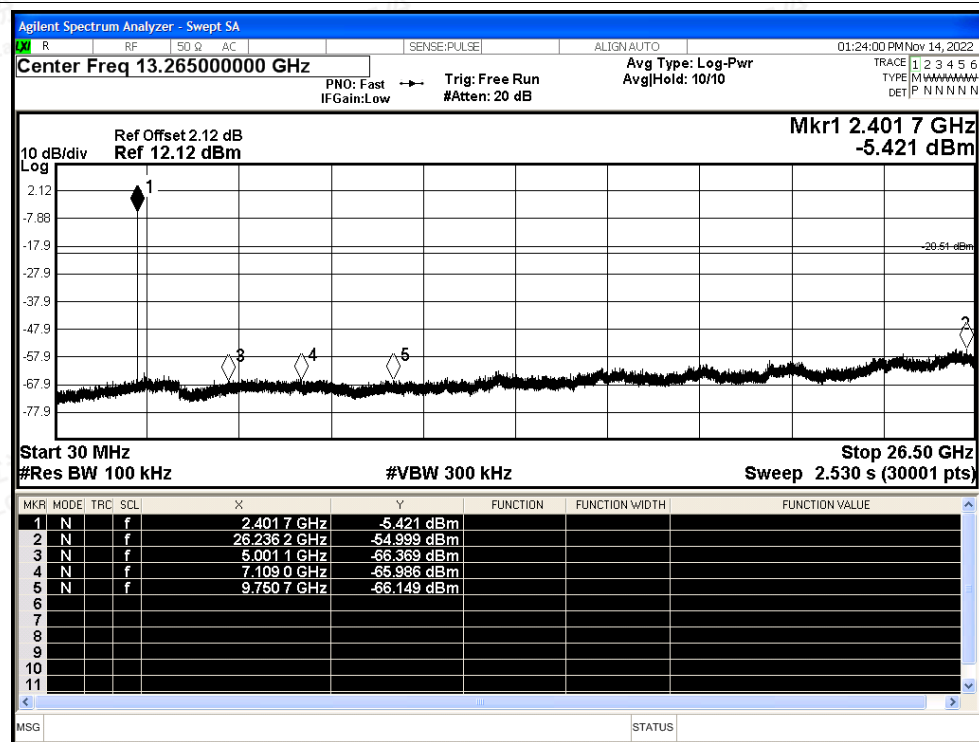
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

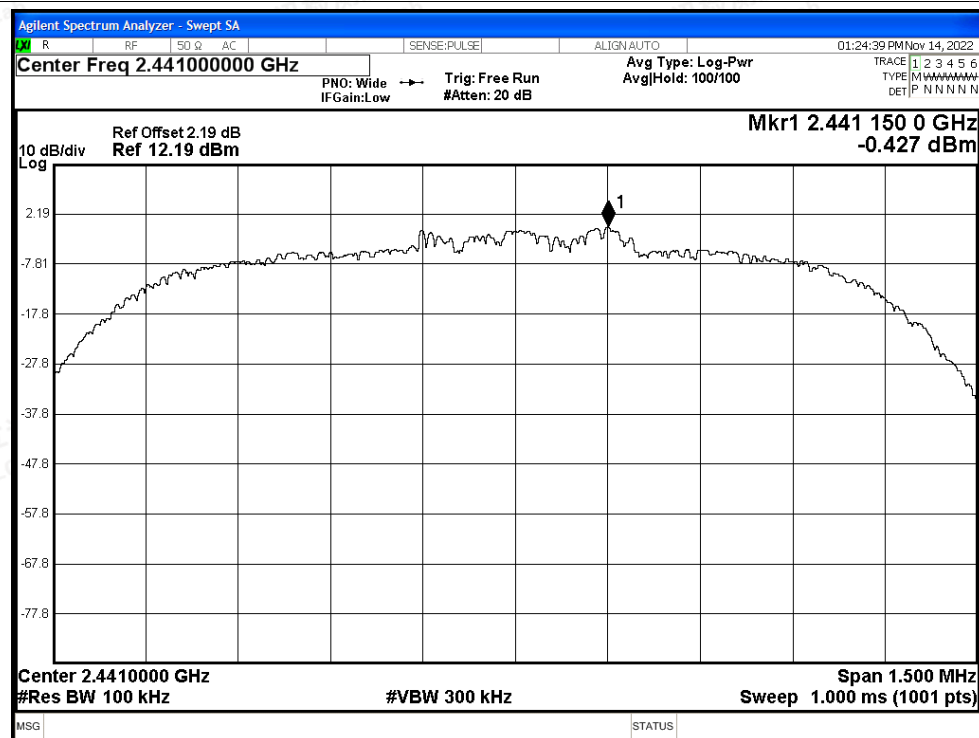
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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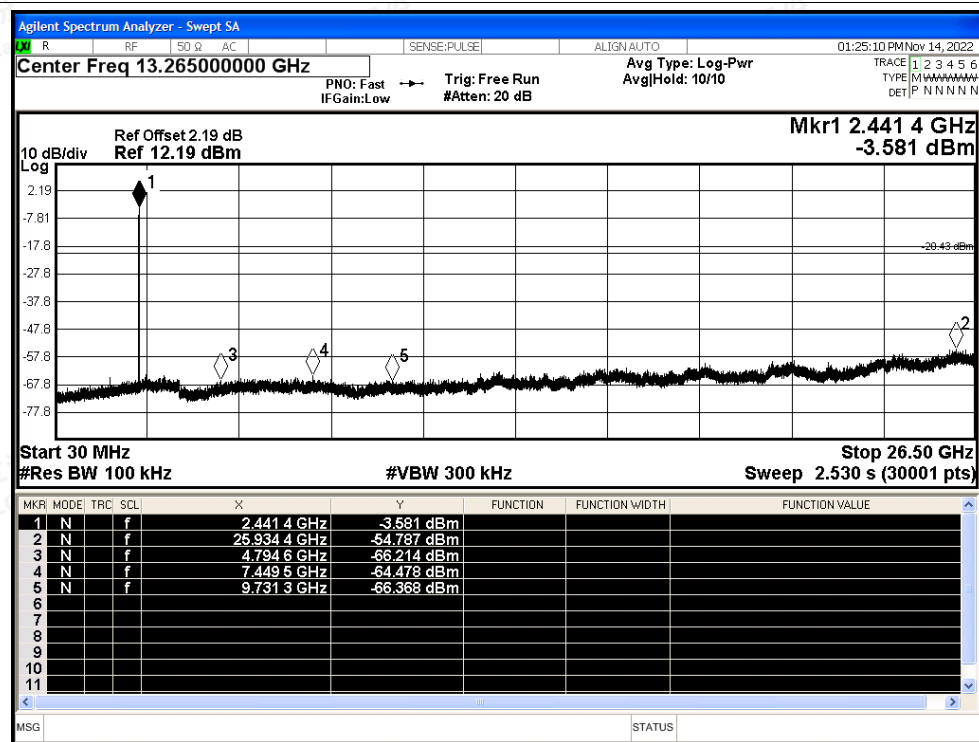
Scan code to check authenticity



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



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



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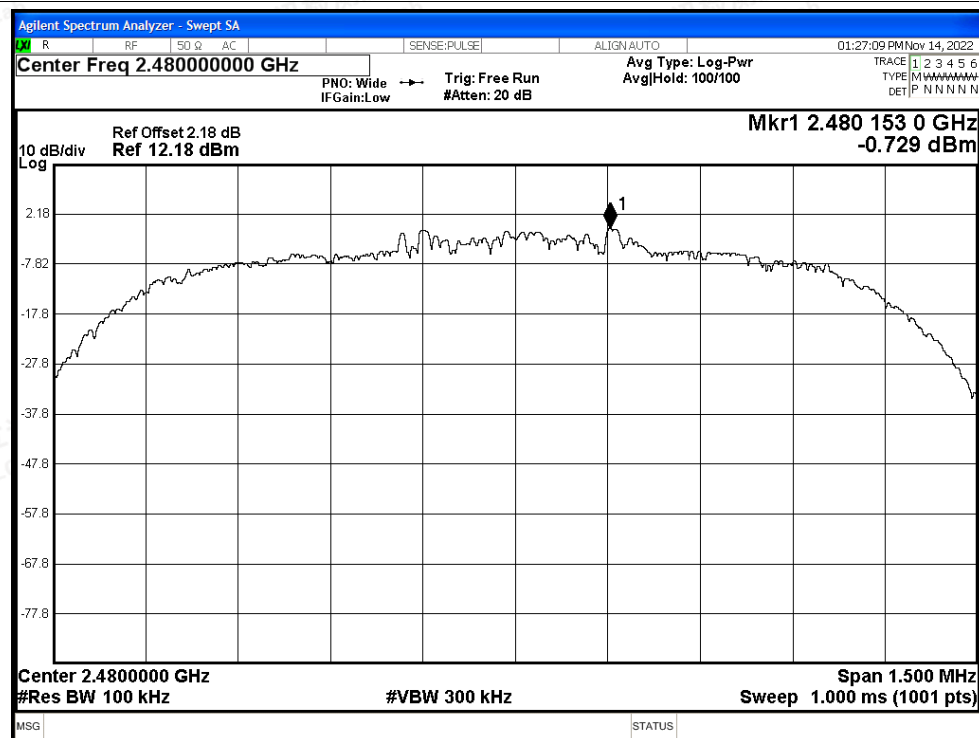
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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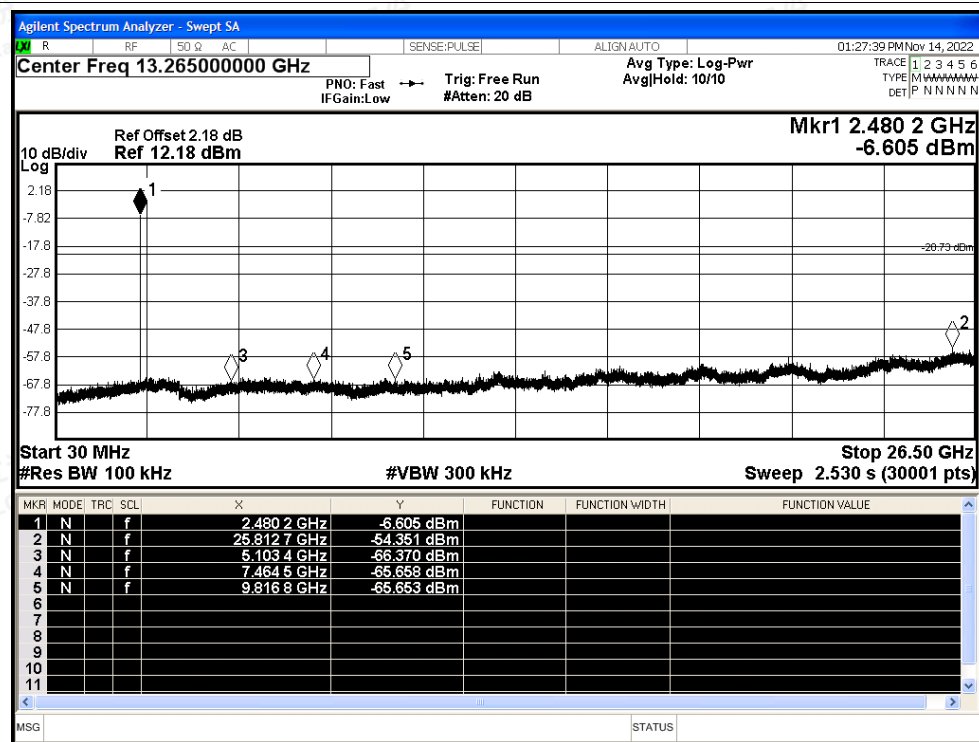
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## Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



## Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

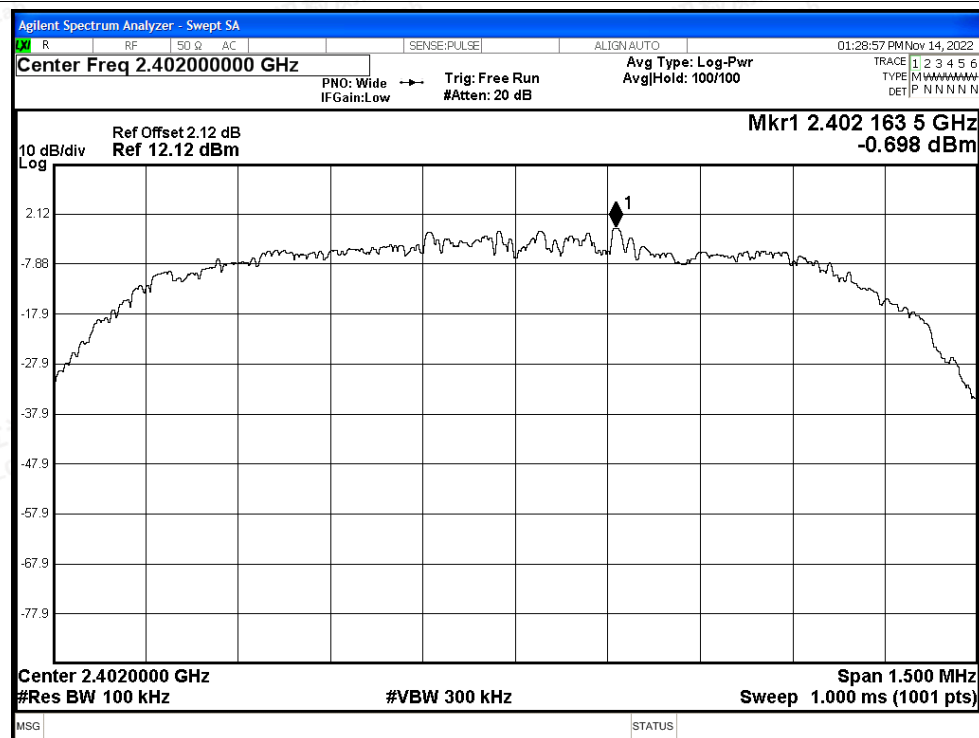
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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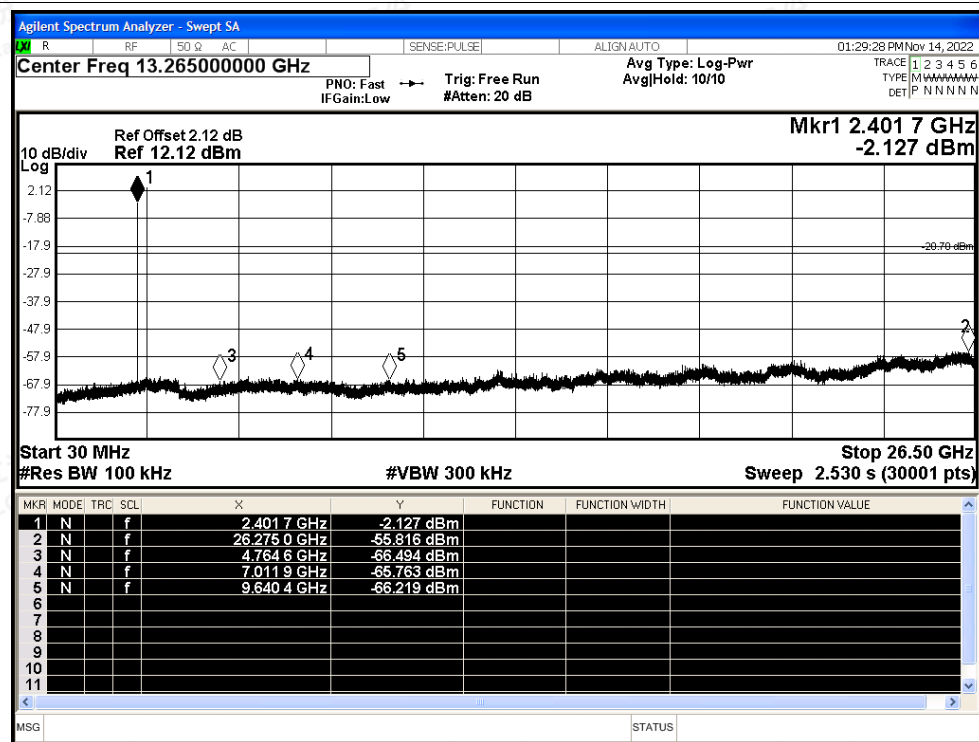
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

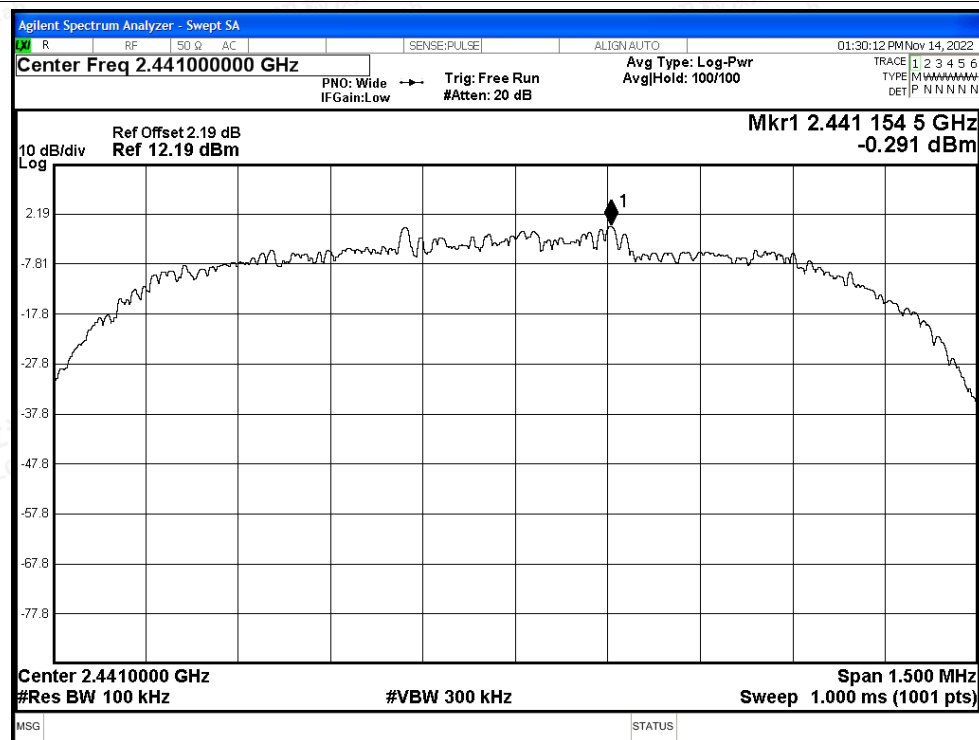
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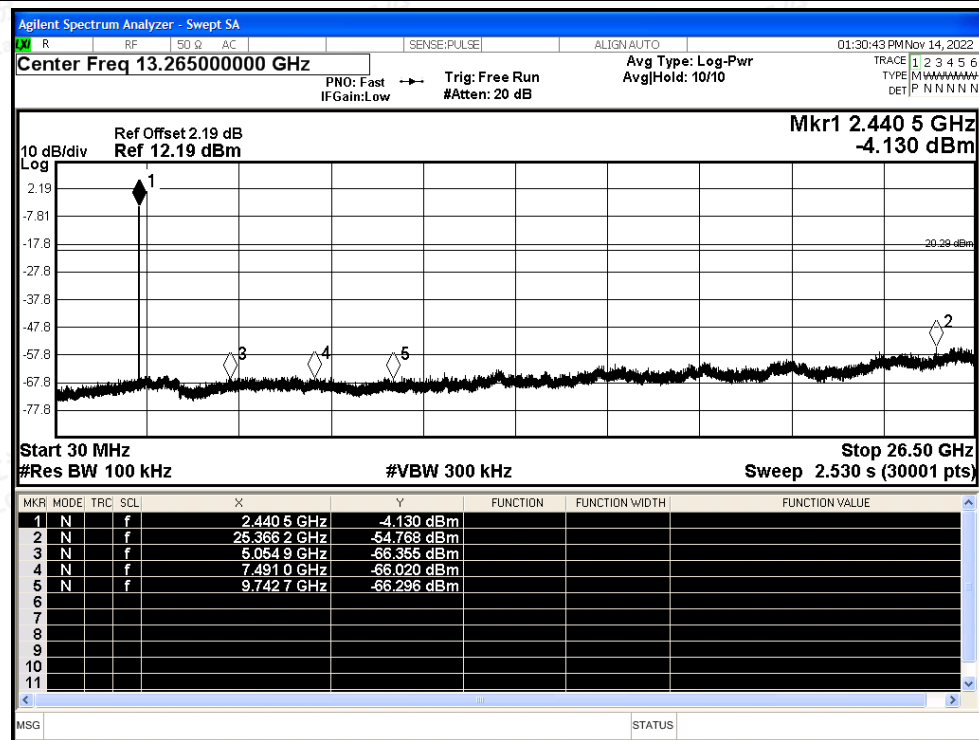
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

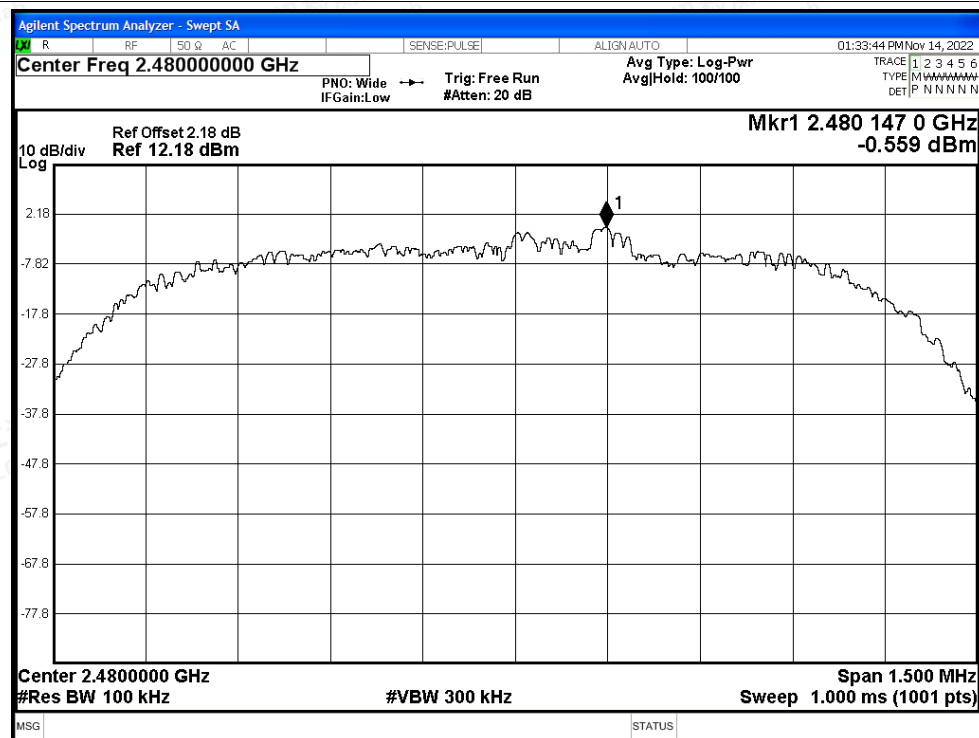
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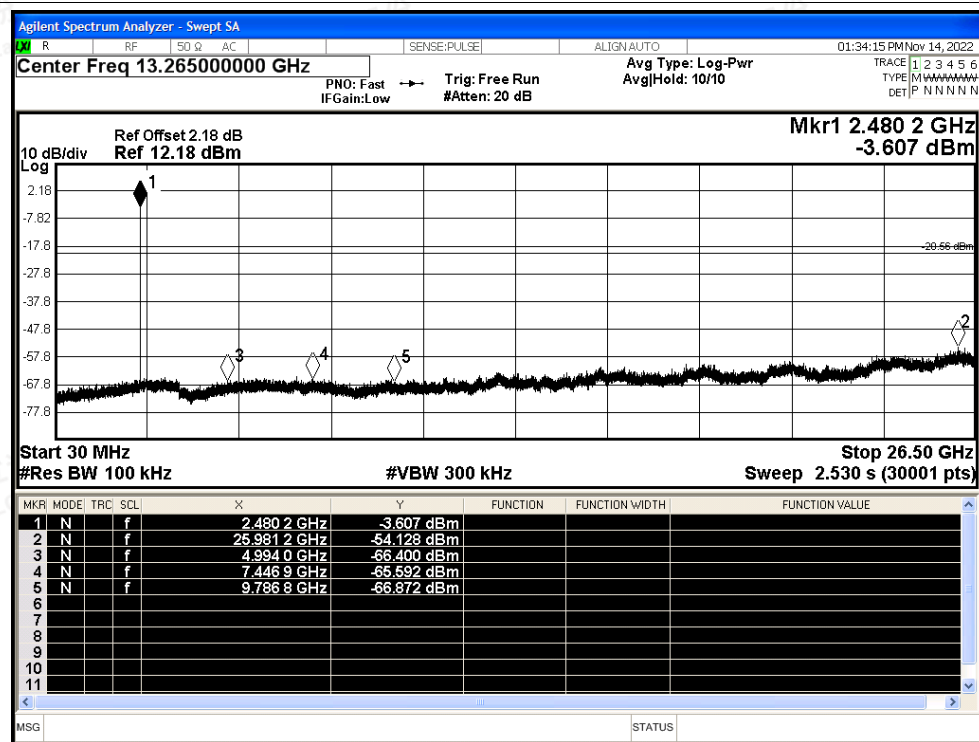
Scan code to check authenticity



## Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



## 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            | -50.77      | 4.16       | 48.62      | Peak     | 74             | Pass    |
| NVNT      | 1-DH5 | 2402            | Ant1    | No-Hopping   | 2310            | -60.42      | 4.16       | 38.97      | Average  | 54             | Pass    |
| NVNT      | 1-DH5 | 2402            | Ant1    | No-Hopping   | 2387.184        | -47.28      | 4.16       | 52.11      | Peak     | 74             | Pass    |
| NVNT      | 1-DH5 | 2402            | Ant1    | No-Hopping   | 2382.288        | -59.84      | 4.16       | 39.55      | Average  | 54             | Pass    |
| NVNT      | 1-DH5 | 2402            | Ant1    | No-Hopping   | 2390            | -50.3       | 4.16       | 49.09      | Peak     | 74             | Pass    |
| NVNT      | 1-DH5 | 2402            | Ant1    | No-Hopping   | 2390            | -60.03      | 4.16       | 39.36      | Average  | 54             | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | No-Hopping   | 2483.5          | -48.04      | 4.16       | 51.35      | Peak     | 74             | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | No-Hopping   | 2483.5          | -59.54      | 4.16       | 39.85      | Average  | 54             | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | No-Hopping   | 2493.28         | -46.61      | 4.16       | 52.78      | Peak     | 74             | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | No-Hopping   | 2484.112        | -59.44      | 4.16       | 39.95      | Average  | 54             | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | No-Hopping   | 2500            | -48.72      | 4.16       | 50.67      | Peak     | 74             | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | No-Hopping   | 2500            | -59.63      | 4.16       | 39.76      | Average  | 54             | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | No-Hopping   | 2310            | -49.47      | 4.16       | 49.92      | Peak     | 74             | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | No-Hopping   | 2310            | -60.43      | 4.16       | 38.96      | Average  | 54             | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | No-Hopping   | 2378.832        | -47.46      | 4.16       | 51.93      | Peak     | 74             | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | No-Hopping   | 2386.416        | -59.9       | 4.16       | 39.49      | Average  | 54             | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | No-Hopping   | 2390            | -50.96      | 4.16       | 48.43      | Peak     | 74             | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | No-Hopping   | 2390            | -60.09      | 4.16       | 39.30      | Average  | 54             | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | No-Hopping   | 2483.5          | -48.69      | 4.16       | 50.70      | Peak     | 74             | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | No-Hopping   | 2483.5          | -59.47      | 4.16       | 39.92      | Average  | 54             | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | No-Hopping   | 2493.256        | -45.75      | 4.16       | 53.64      | Peak     | 74             | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | No-Hopping   | 2483.608        | -59.3       | 4.16       | 40.09      | Average  | 54             | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | No-Hopping   | 2500            | -50.31      | 4.16       | 49.08      | Peak     | 74             | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | No-Hopping   | 2500            | -59.62      | 4.16       | 39.77      | Average  | 54             | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | No-Hopping   | 2310            | -49.3       | 4.16       | 50.09      | Peak     | 74             | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | No-Hopping   | 2310            | -60.39      | 4.16       | 39.00      | Average  | 54             | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | No-Hopping   | 2380.272        | -47.53      | 4.16       | 51.86      | Peak     | 74             | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | No-Hopping   | 2388.528        | -59.83      | 4.16       | 39.56      | Average  | 54             | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | No-Hopping   | 2390            | -50.16      | 4.16       | 49.23      | Peak     | 74             | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | No-Hopping   | 2390            | -59.93      | 4.16       | 39.46      | Average  | 54             | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | No-Hopping   | 2483.5          | -48.66      | 4.16       | 50.73      | Peak     | 74             | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | No-Hopping   | 2483.5          | -59.39      | 4.16       | 40.00      | Average  | 54             | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | No-Hopping   | 2497.84         | -46.8       | 4.16       | 52.59      | Peak     | 74             | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | No-Hopping   | 2483.512        | -59.39      | 4.16       | 40.00      | Average  | 54             | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | No-Hopping   | 2500            | -51.46      | 4.16       | 47.93      | Peak     | 74             | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | No-Hopping   | 2500            | -59.67      | 4.16       | 39.72      | Average  | 54             | Pass    |



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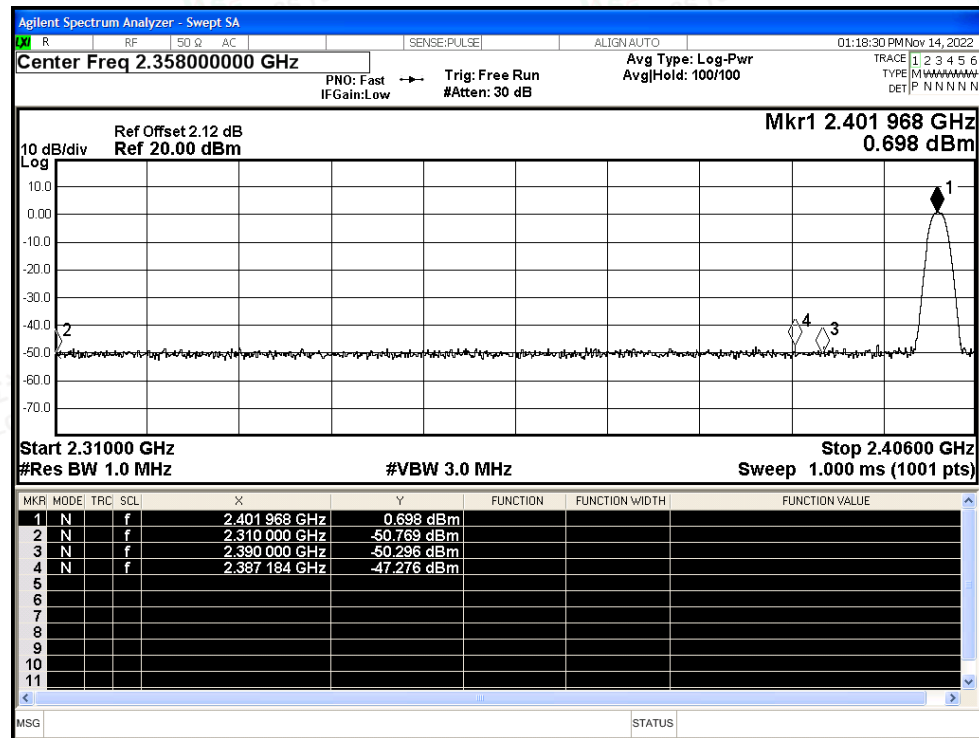
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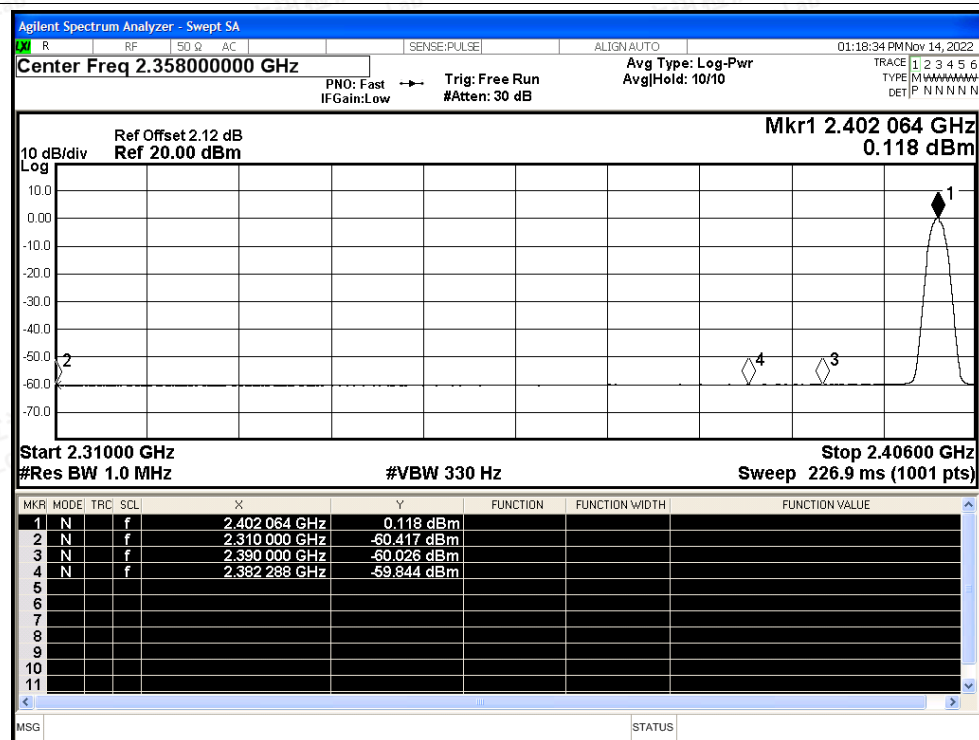


## Test Graphs

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



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

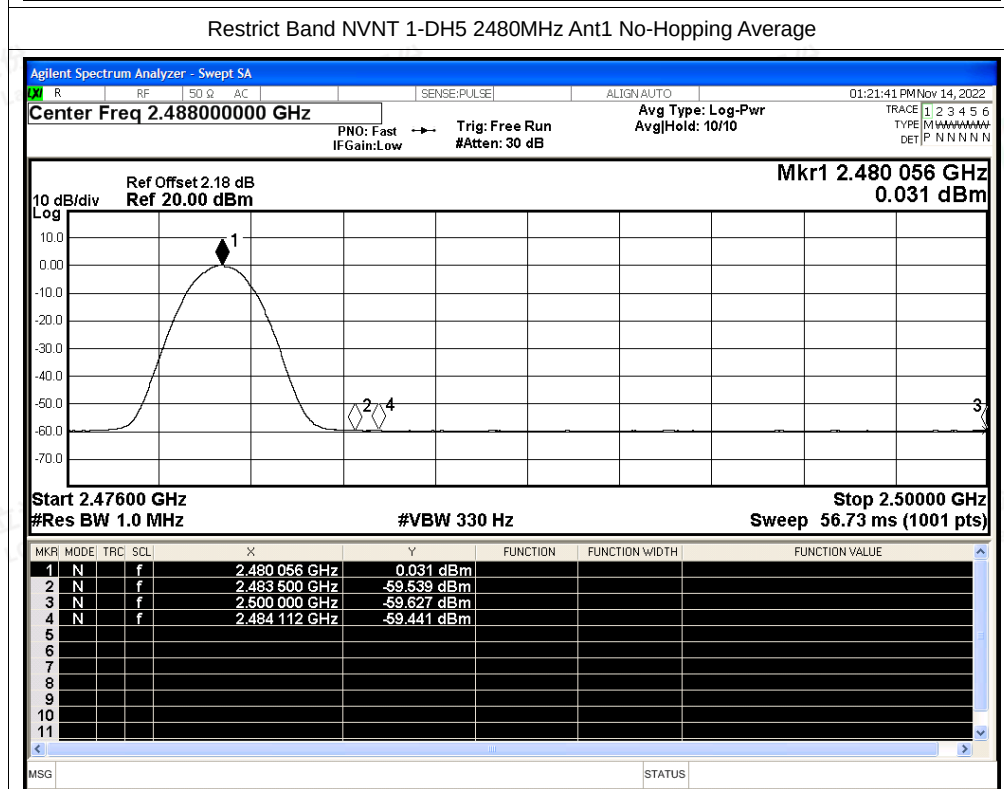
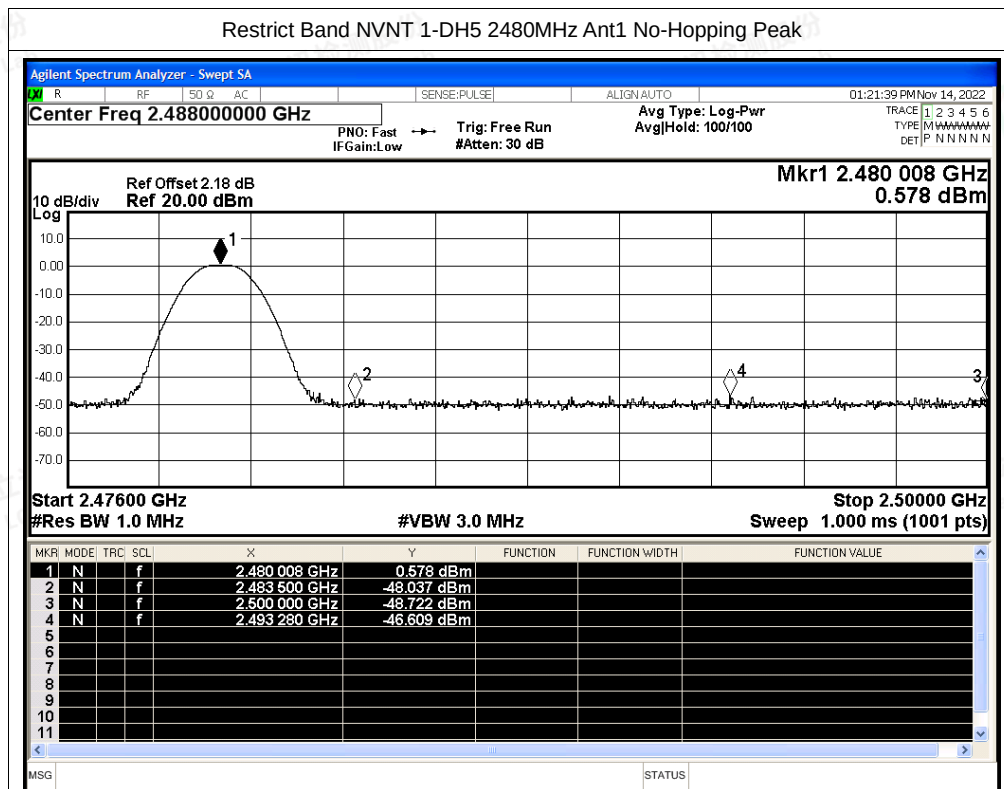


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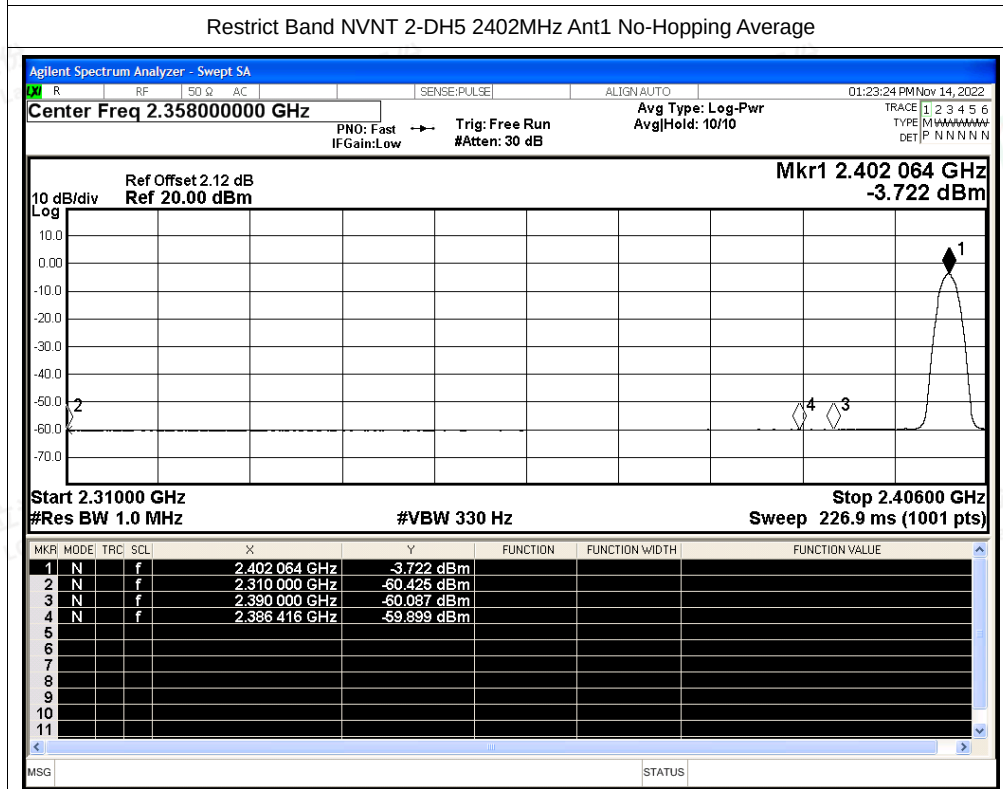
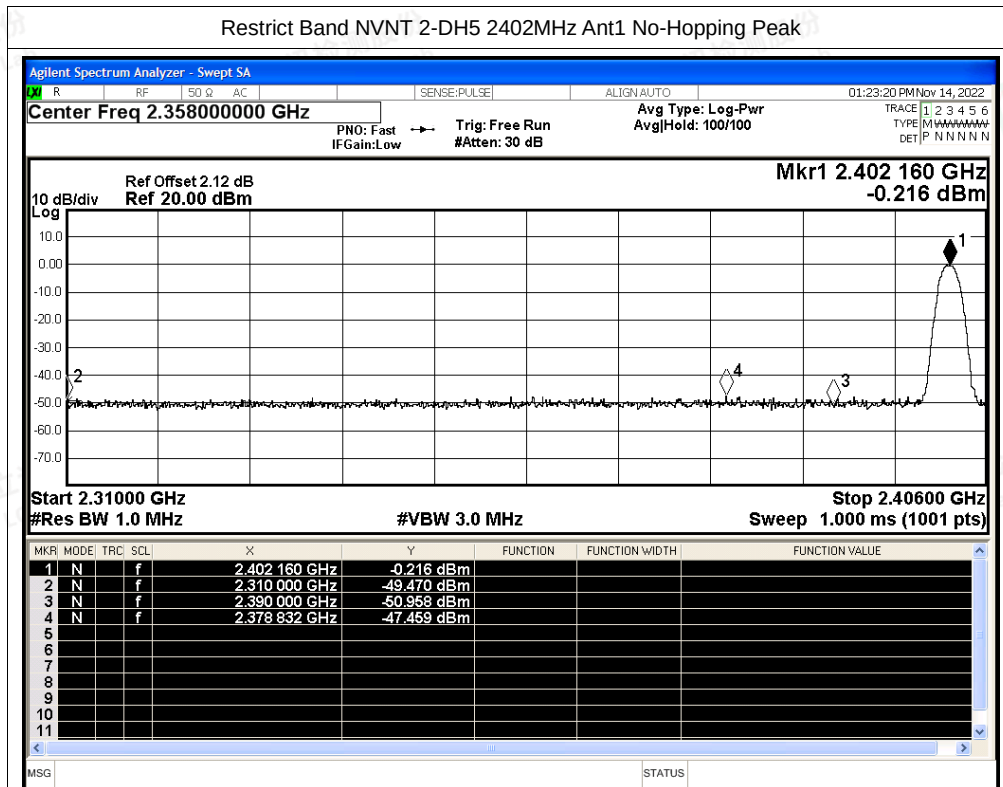


Shenzhen LCS Compliance Testing Laboratory Ltd.

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

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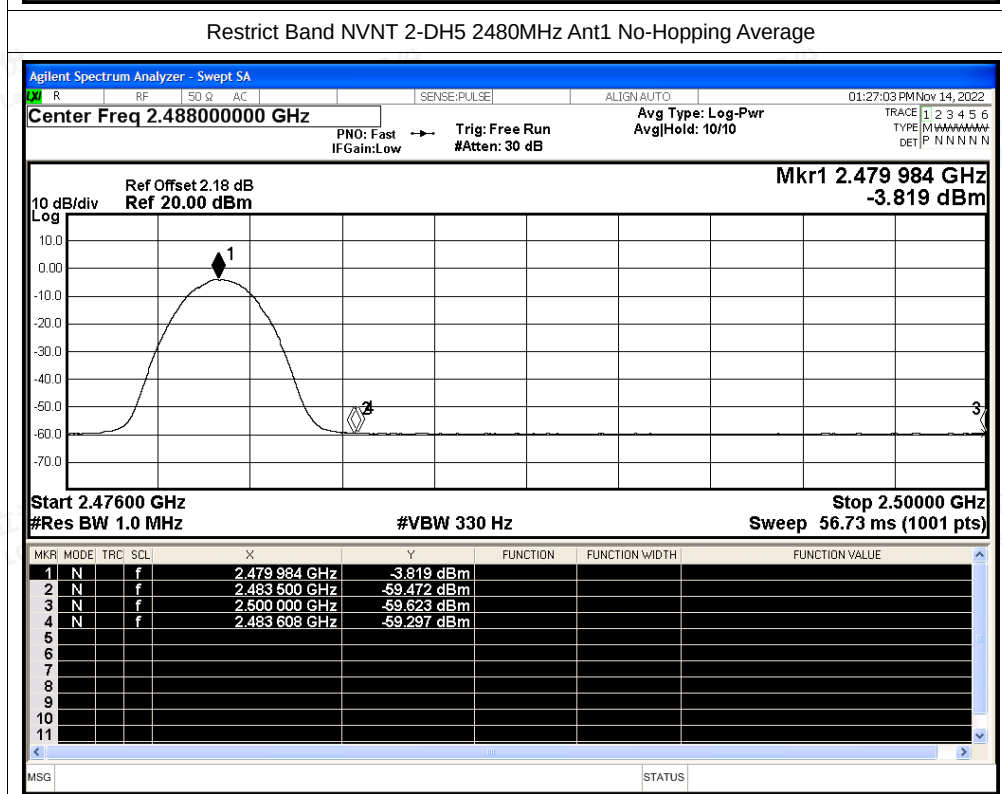
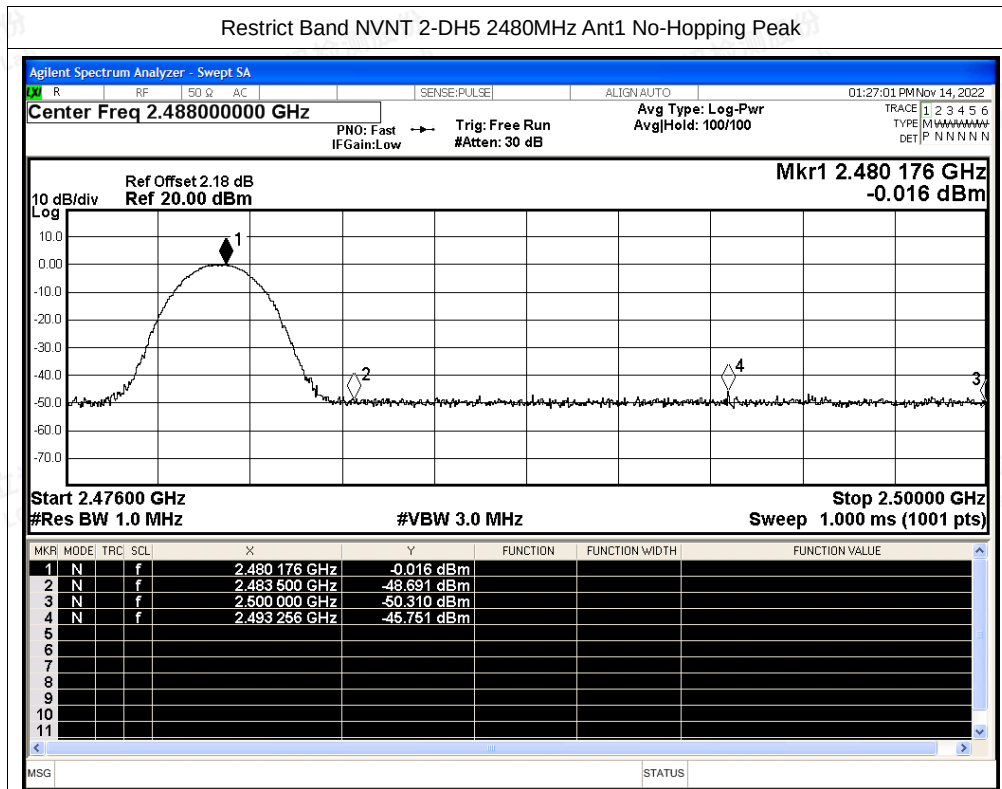


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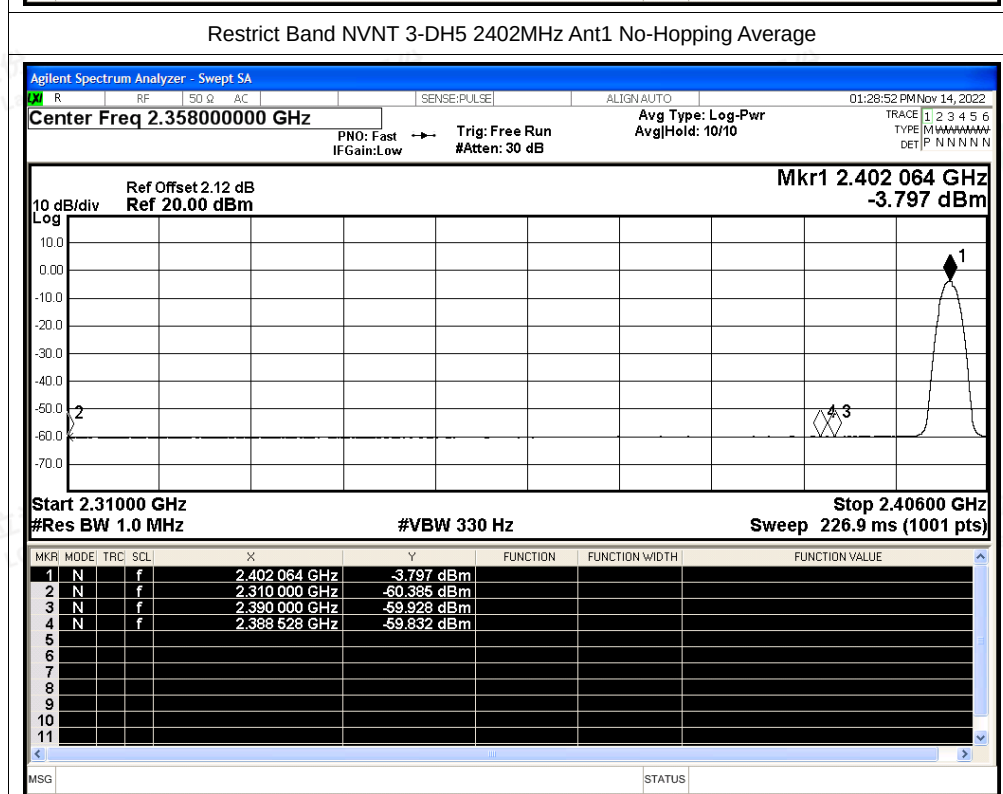
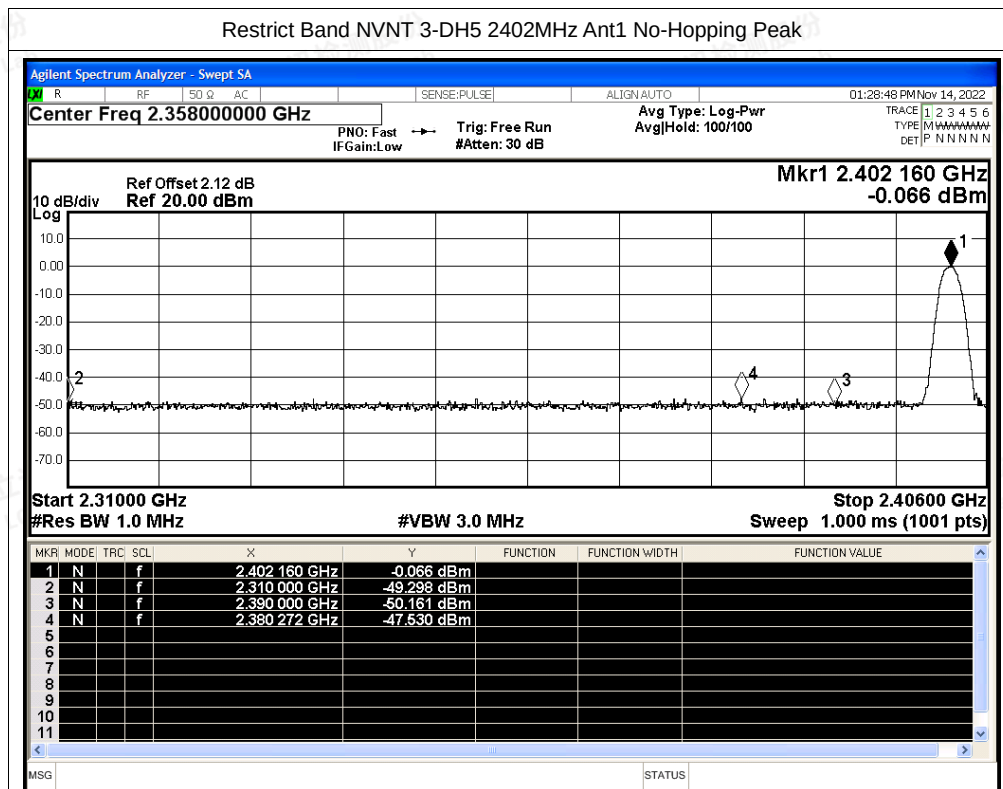


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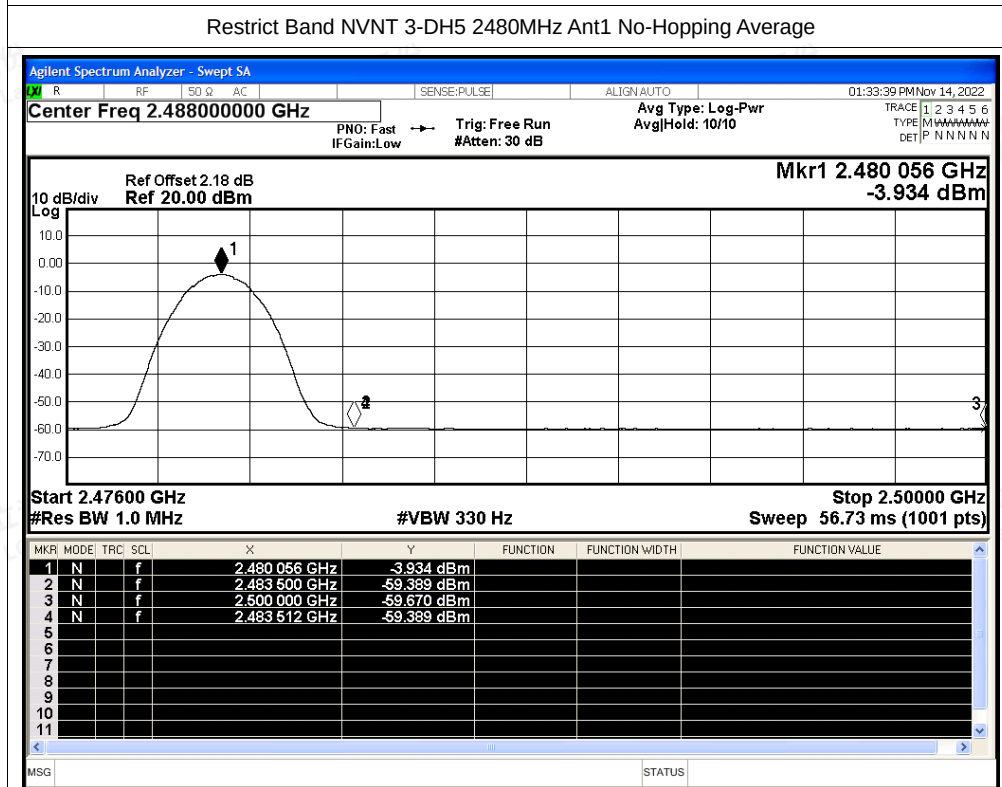
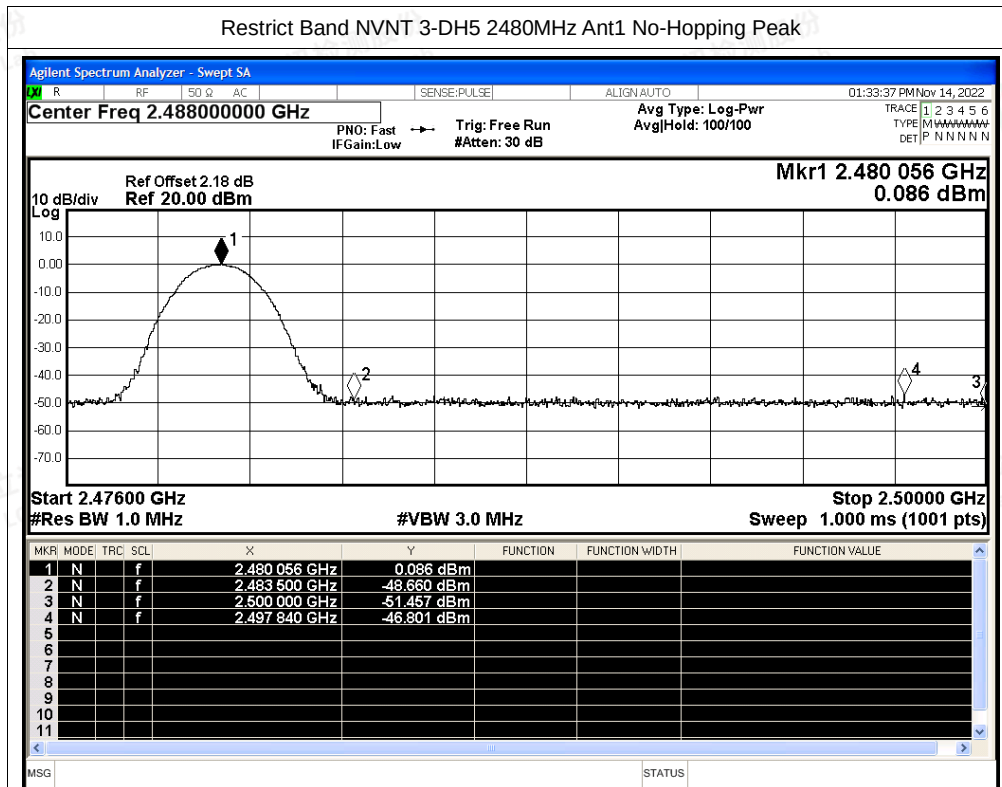


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