



## Appendix B

### RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: LED Floor Lamp

Test Model: LD03

#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 23.8 ° C  |
| Relative Humidity: | 52.3%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Can Kun   |
| Supervised by:     | Nick Peng |



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## B.1 -6dB Bandwidth

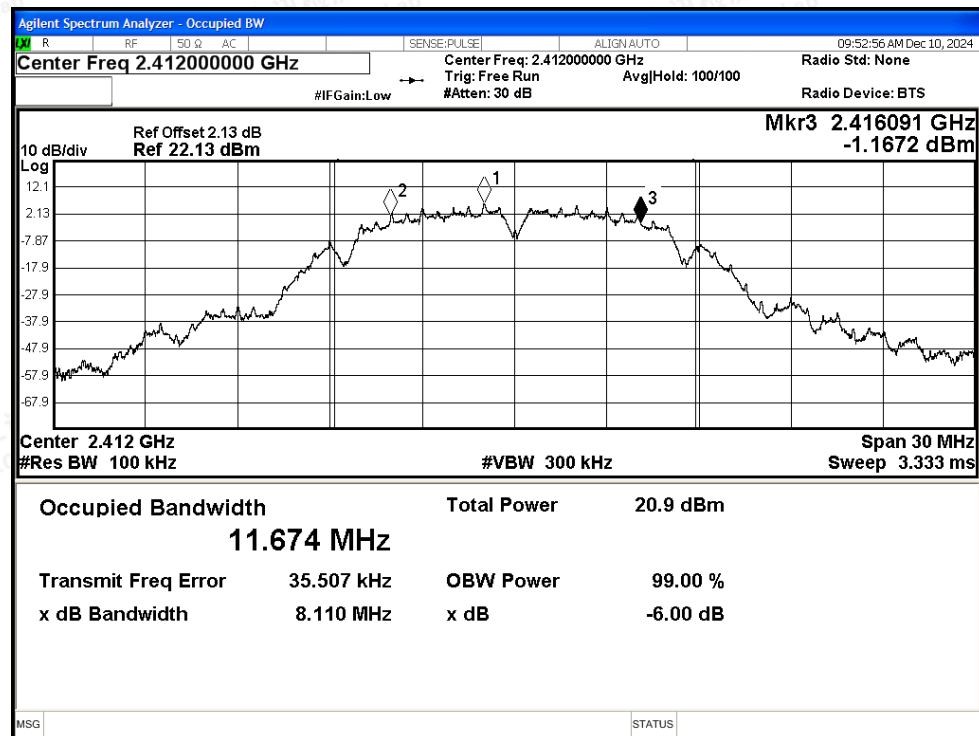
| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | b    | 2412            | Ant1    | 8.11                  | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2437            | Ant1    | 8.094                 | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2462            | Ant1    | 7.567                 | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2412            | Ant1    | 16.049                | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2437            | Ant1    | 16.292                | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2462            | Ant1    | 16.281                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 16.52                 | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 17.096                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 17.138                | $\geq 0.5$                  | Pass    |



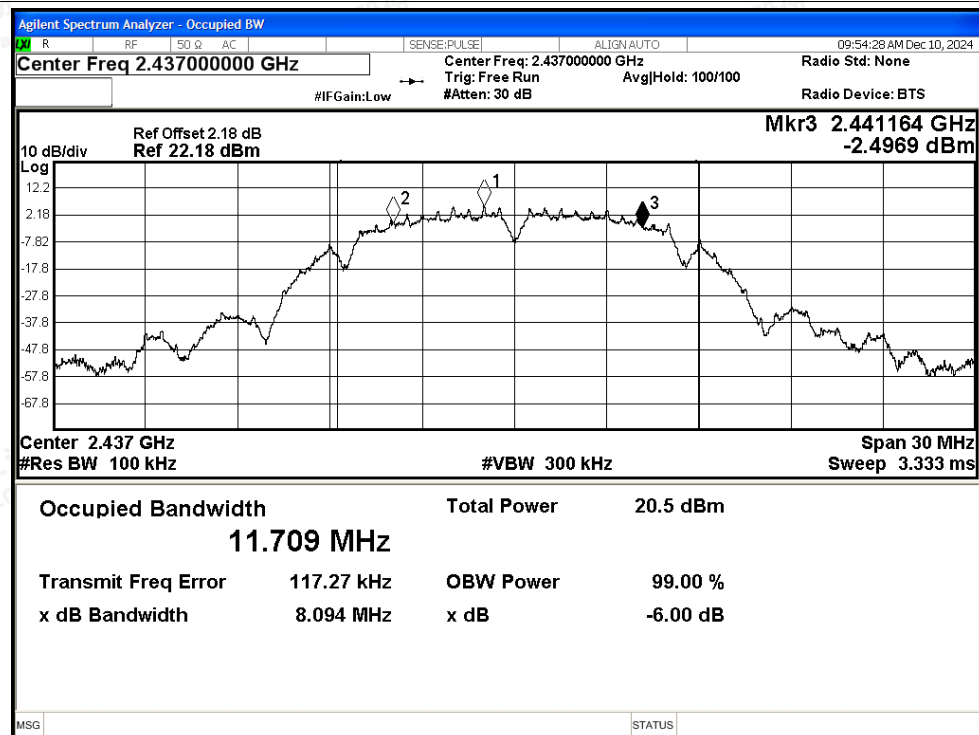


## Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



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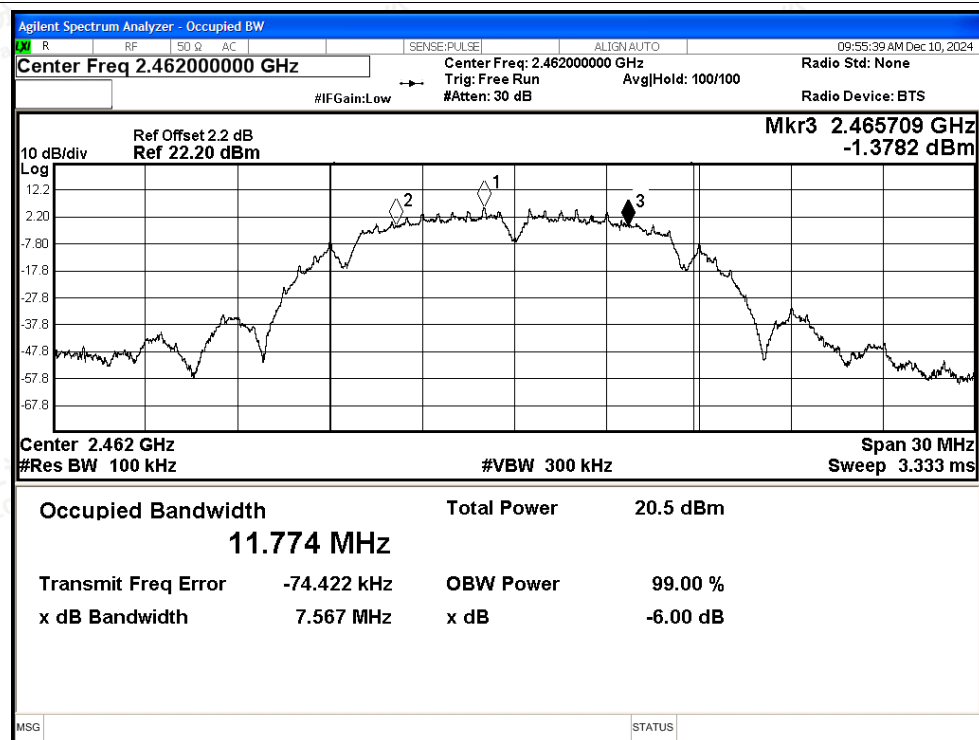
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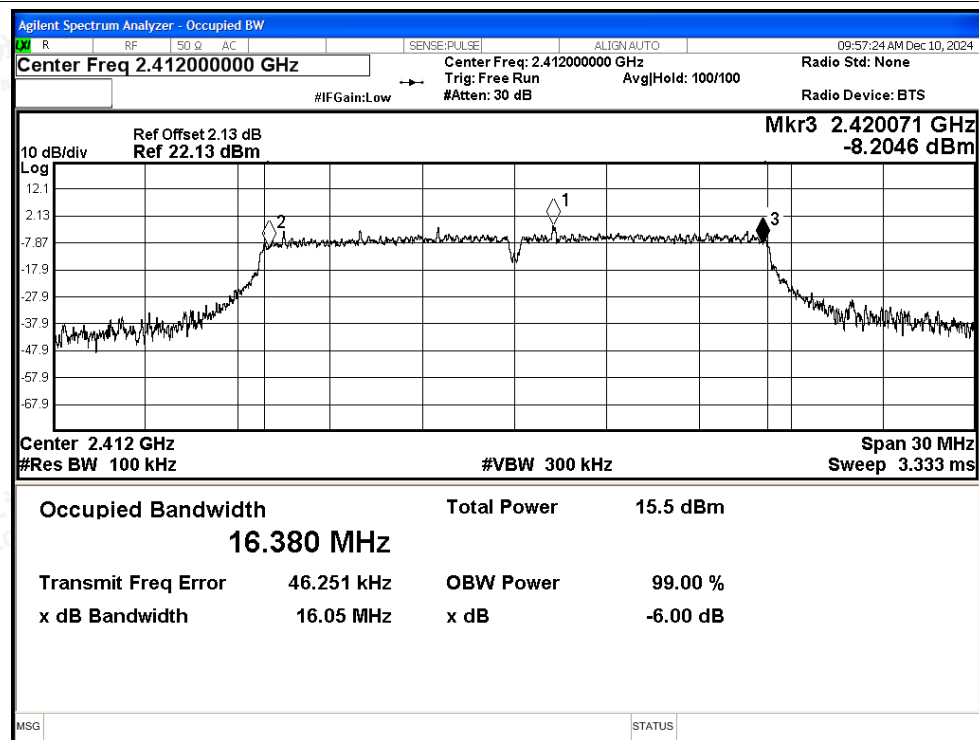
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## -6dB Bandwidth NVNT b 2462MHz Ant1



## -6dB Bandwidth NVNT g 2412MHz Ant1



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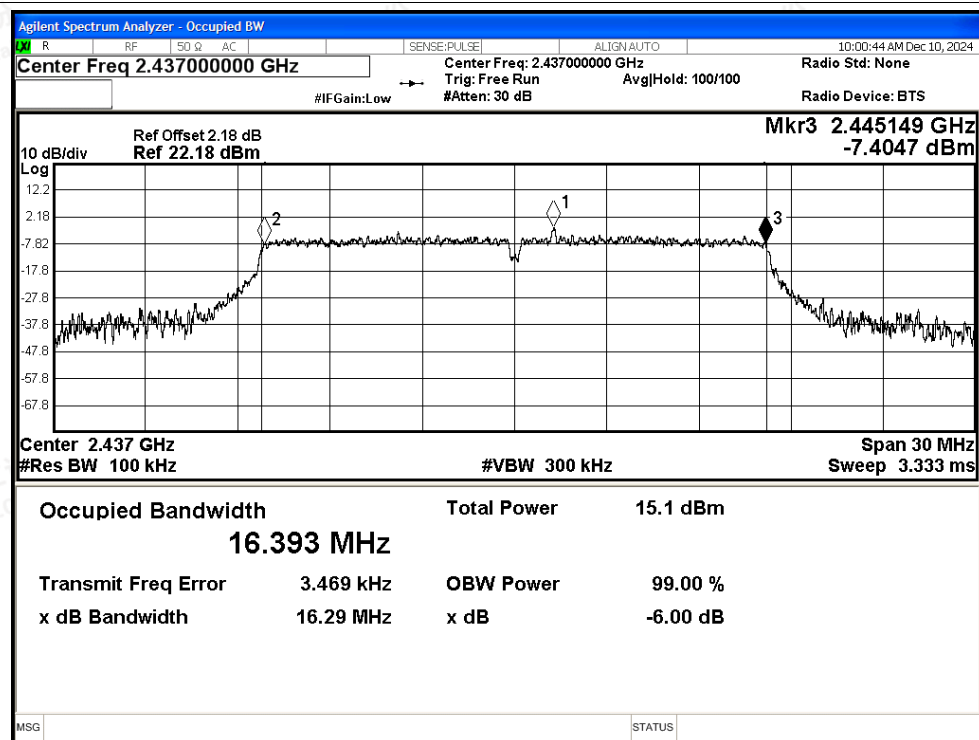
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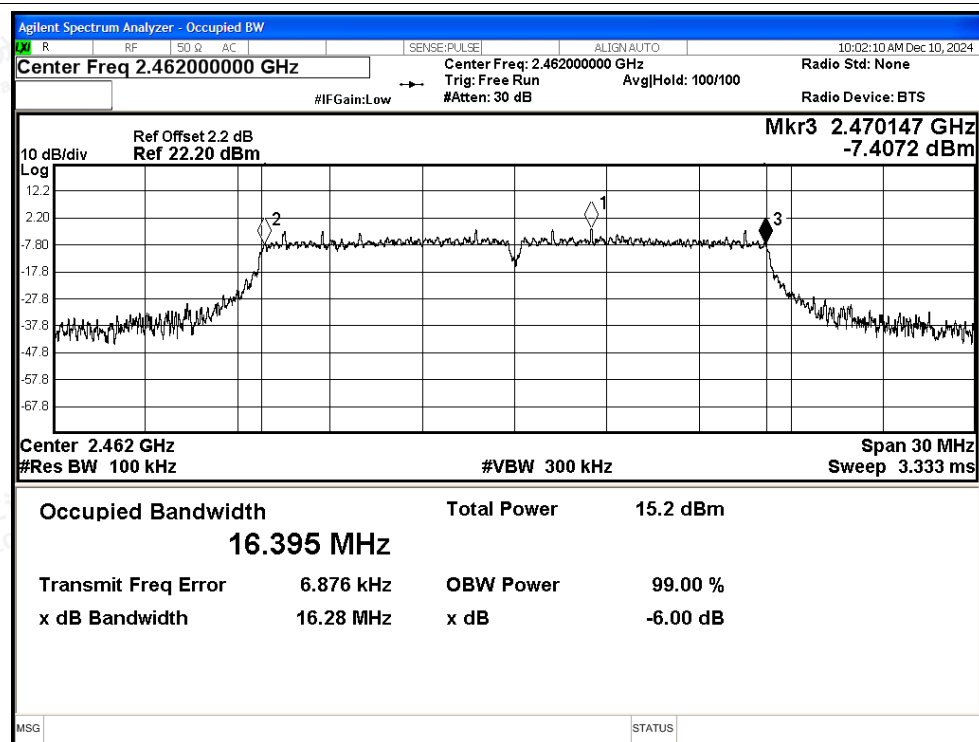
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## -6dB Bandwidth NVNT g 2437MHz Ant1



## -6dB Bandwidth NVNT g 2462MHz Ant1



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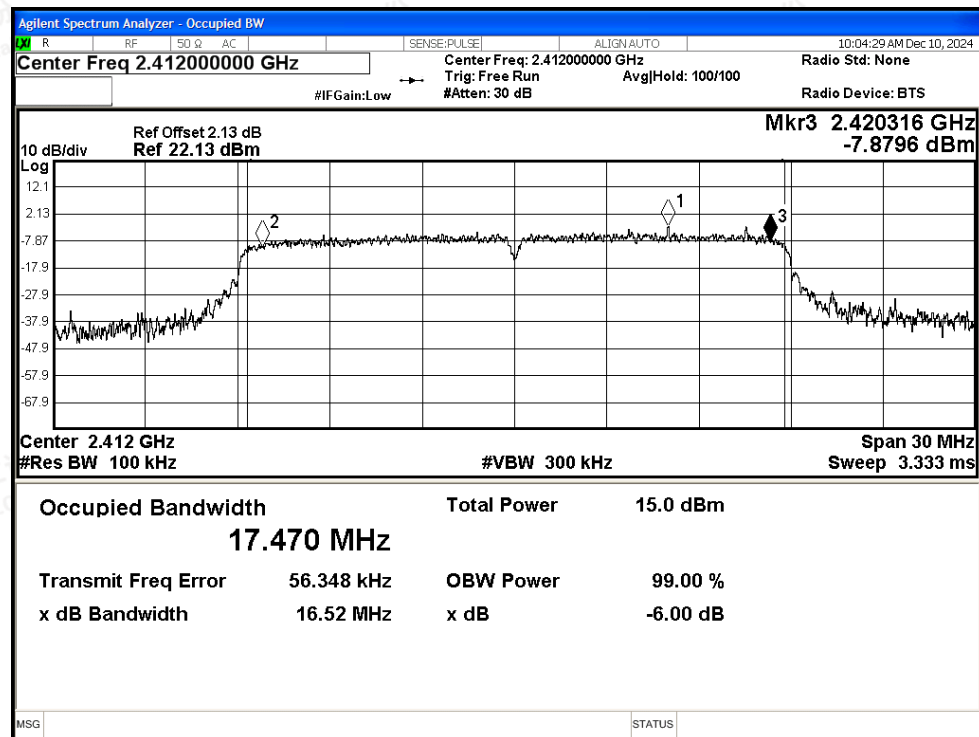
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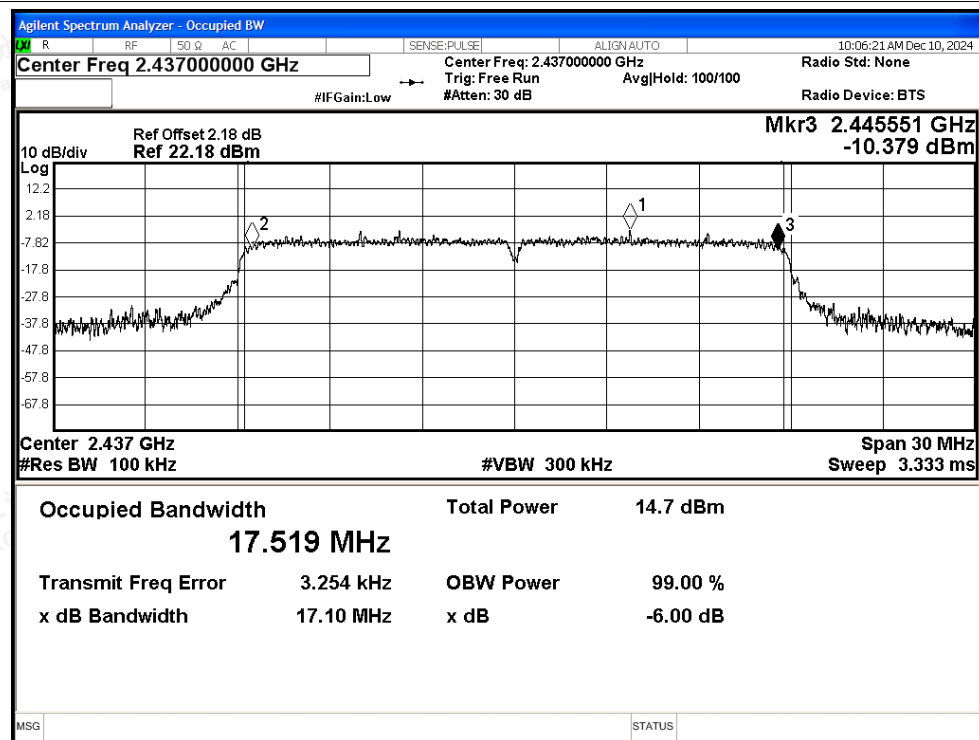
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## -6dB Bandwidth NVNT n20 2412MHz Ant1



## -6dB Bandwidth NVNT n20 2437MHz Ant1



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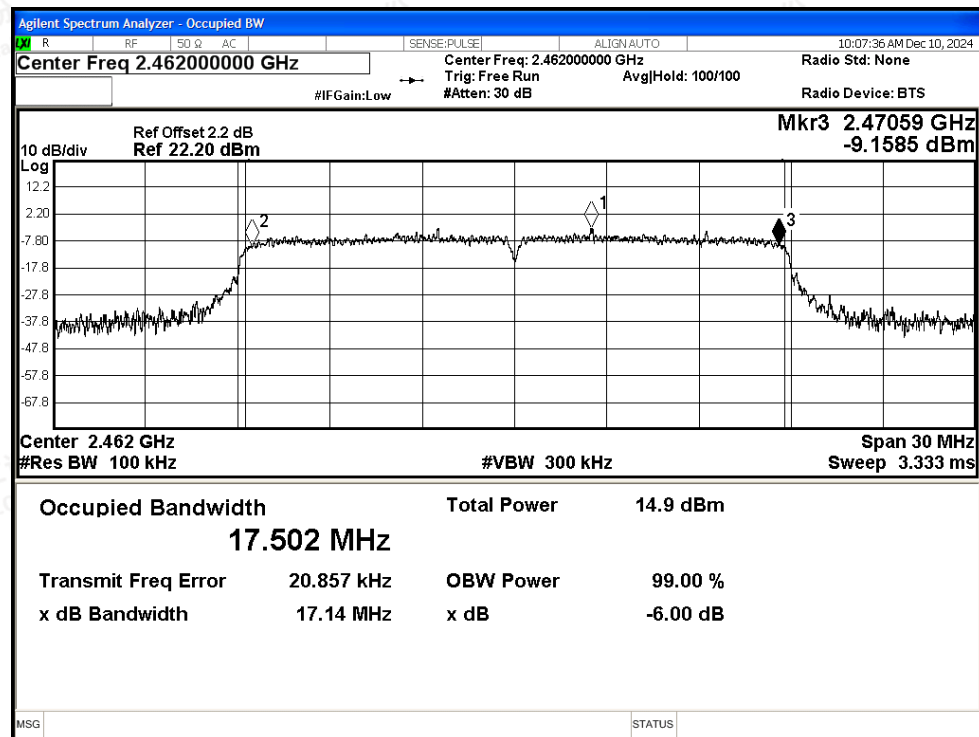
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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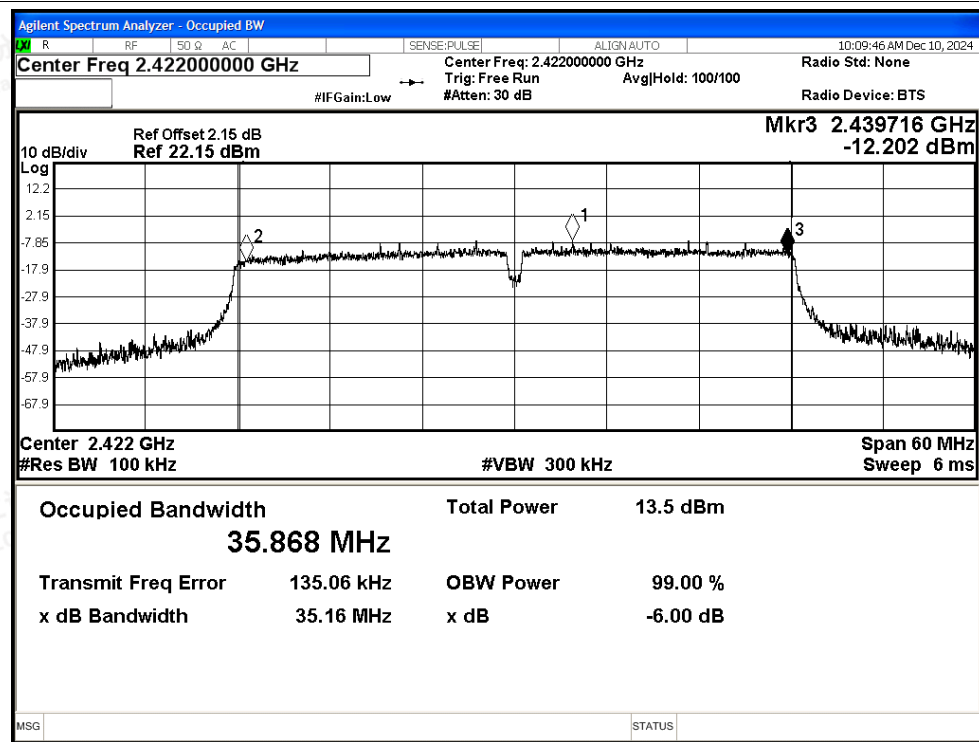
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## -6dB Bandwidth NVNT n20 2462MHz Ant1



## -6dB Bandwidth NVNT n40 2422MHz Ant1



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## B.2 Maximum Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-------------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | 15.80             | 30          | Pass    |
| NVNT      | b    | 2437            | Ant1    | 15.49             | 30          | Pass    |
| NVNT      | b    | 2462            | Ant1    | 15.49             | 30          | Pass    |
| NVNT      | g    | 2412            | Ant1    | 14.29             | 30          | Pass    |
| NVNT      | g    | 2437            | Ant1    | 13.89             | 30          | Pass    |
| NVNT      | g    | 2462            | Ant1    | 13.93             | 30          | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 13.67             | 30          | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 13.40             | 30          | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 13.54             | 30          | Pass    |







### B.3 Maximum Power Spectral Density Level

| Condition | Mode | Frequency (MHz) | Antenna | Total PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|------|-----------------|---------|----------------------|------------------|---------|
| NVNT      | b    | 2412            | Ant1    | -8.36                | 8                | Pass    |
| NVNT      | b    | 2437            | Ant1    | -8.14                | 8                | Pass    |
| NVNT      | b    | 2462            | Ant1    | -8.13                | 8                | Pass    |
| NVNT      | g    | 2412            | Ant1    | -15.66               | 8                | Pass    |
| NVNT      | g    | 2437            | Ant1    | -16.14               | 8                | Pass    |
| NVNT      | g    | 2462            | Ant1    | -16.69               | 8                | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -16.93               | 8                | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -16.82               | 8                | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -17.45               | 8                | Pass    |

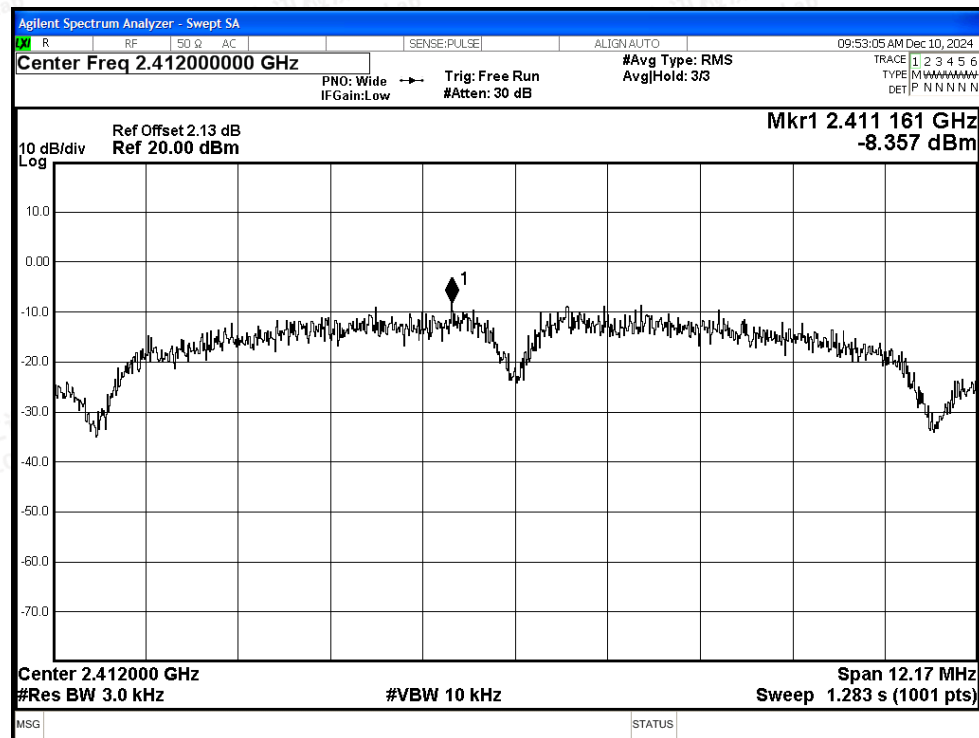


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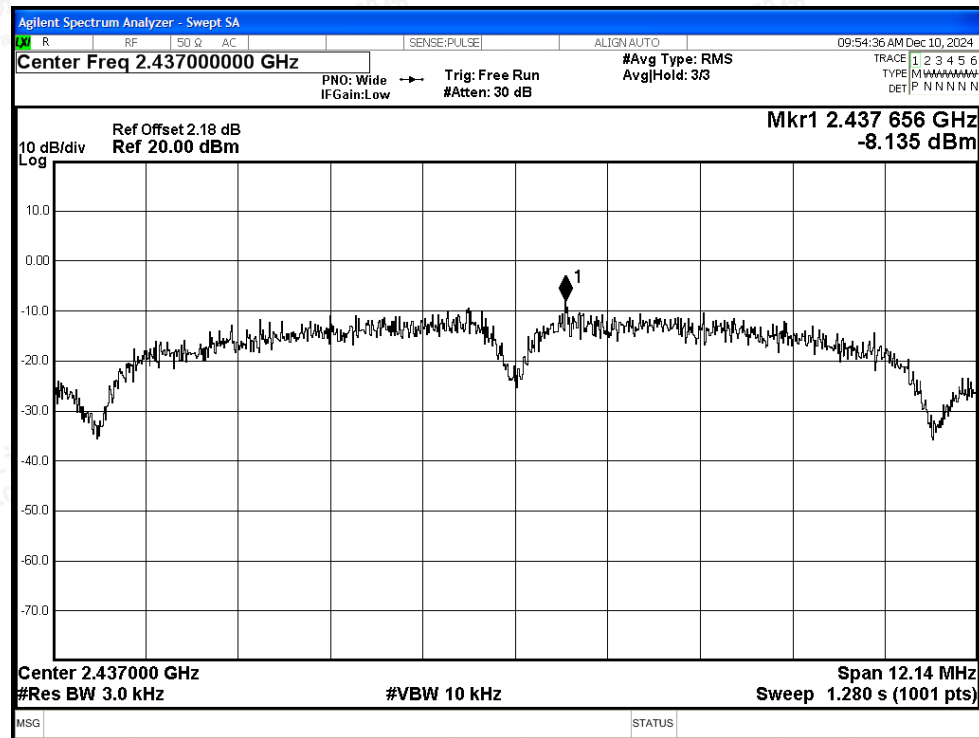


## Test Graphs

## PSD NVNT b 2412MHz Ant1

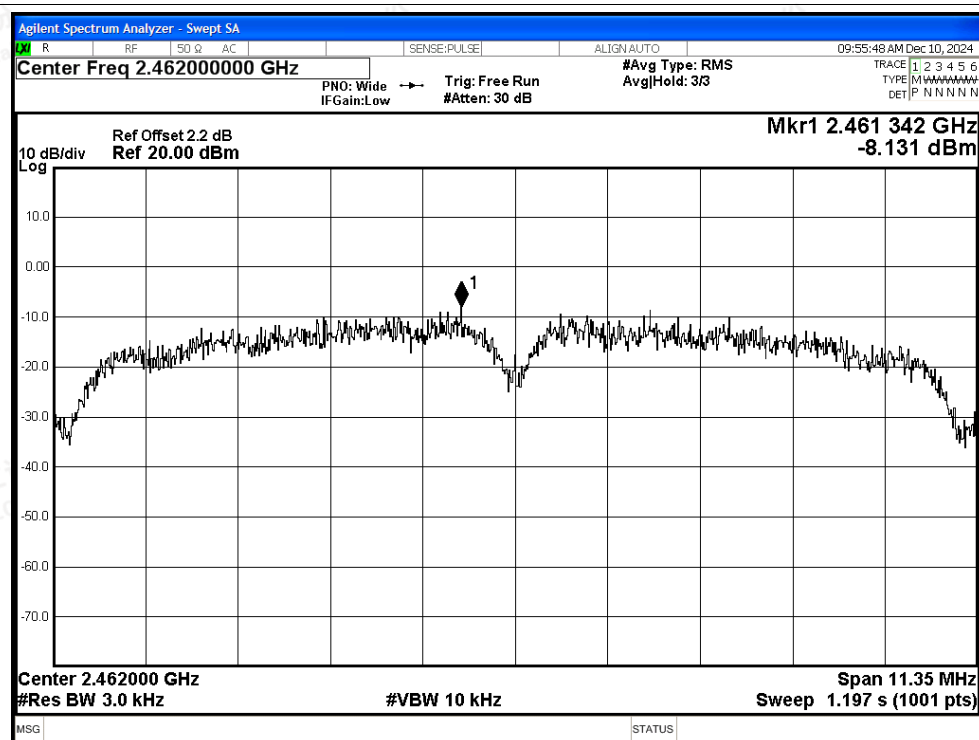


## PSD NVNT b 2437MHz Ant1

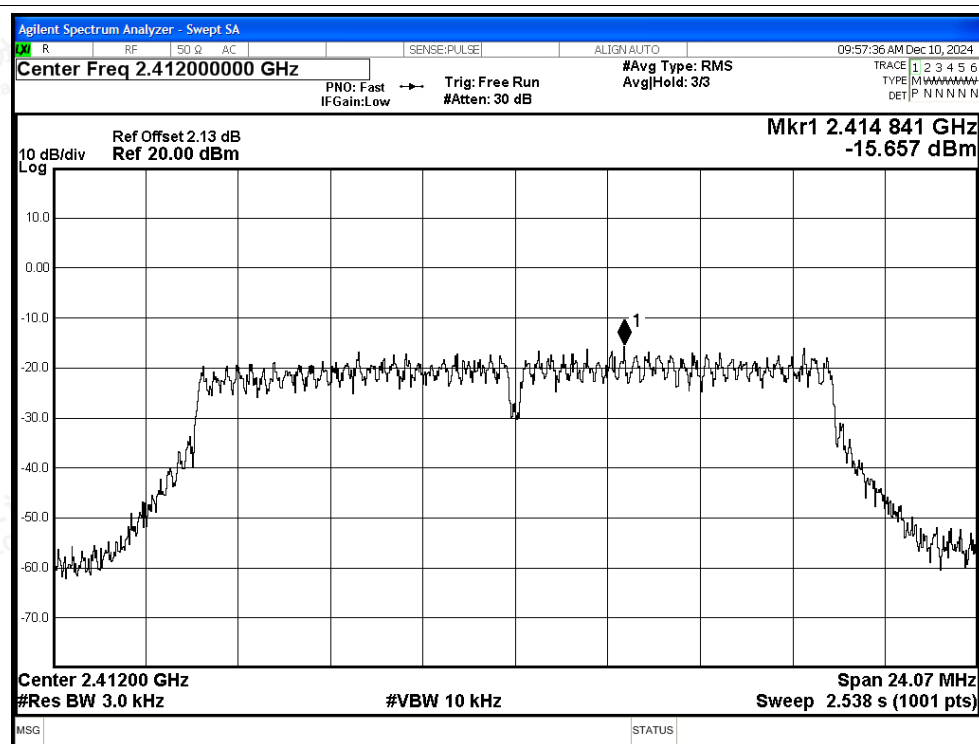




## PSD NVNT b 2462MHz Ant1



## PSD NVNT g 2412MHz Ant1



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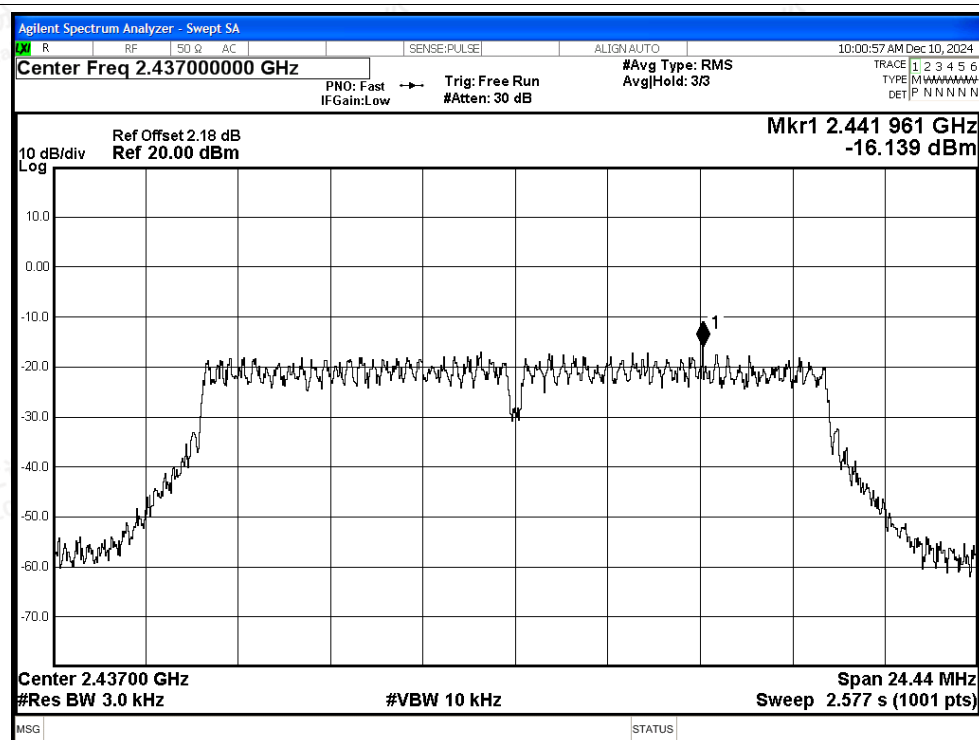
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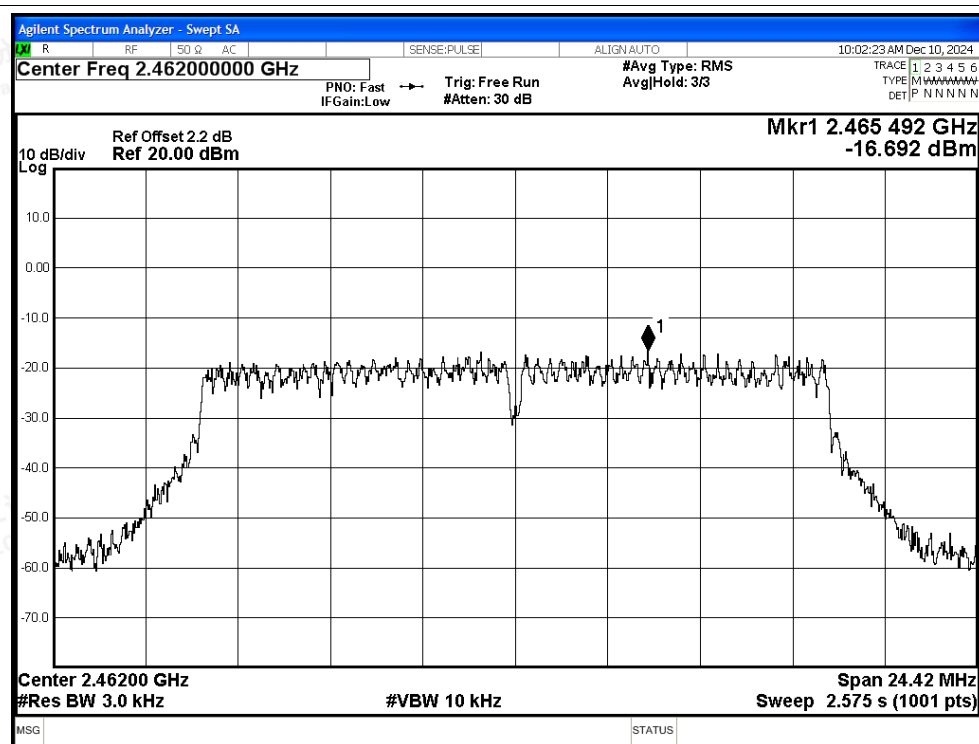
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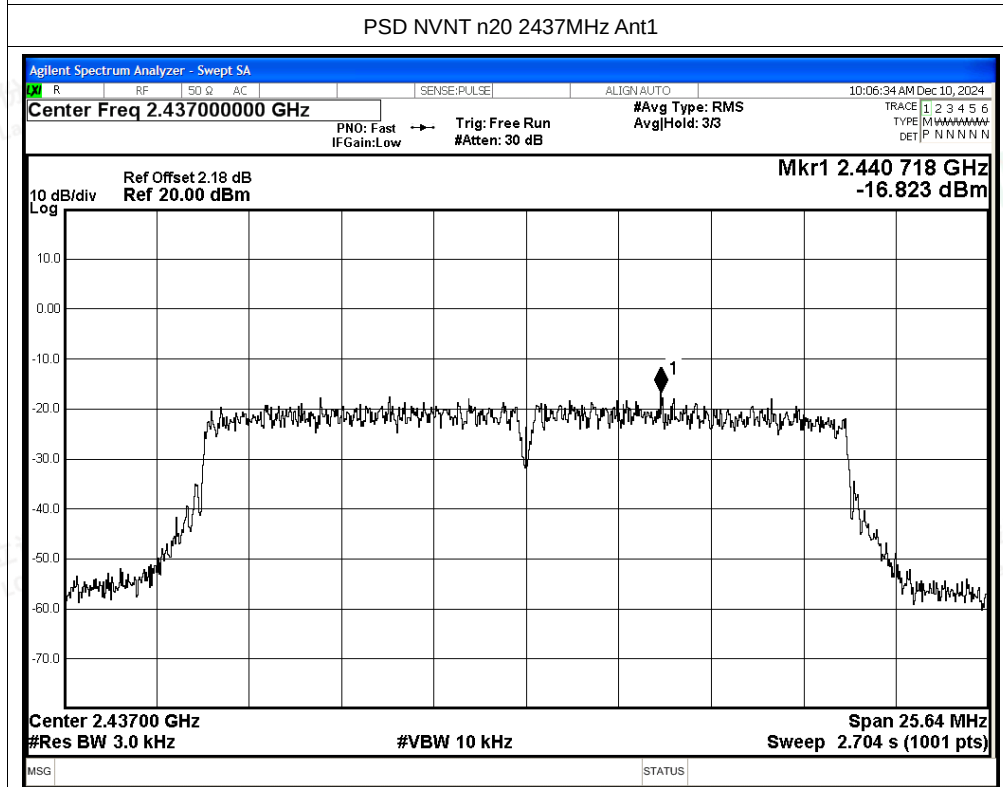
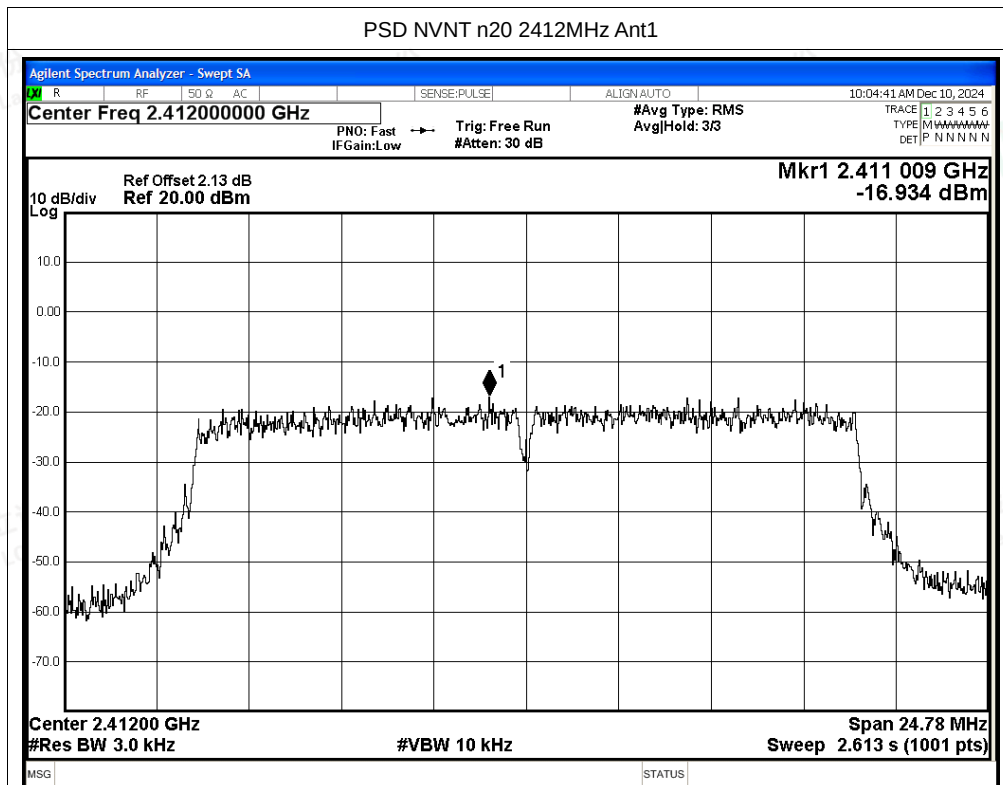


PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1



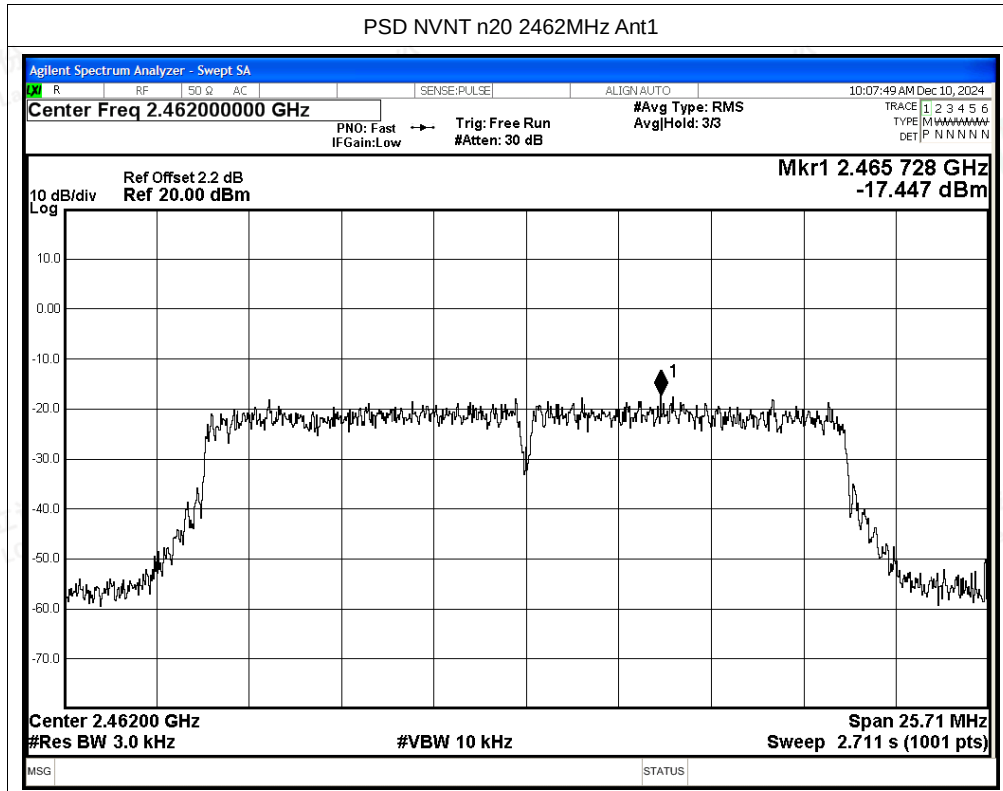


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## B.4 Band Edge

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -47.64          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -60.3           | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -33.35          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -41.6           | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -30.38          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -38.97          | -20         | Pass    |



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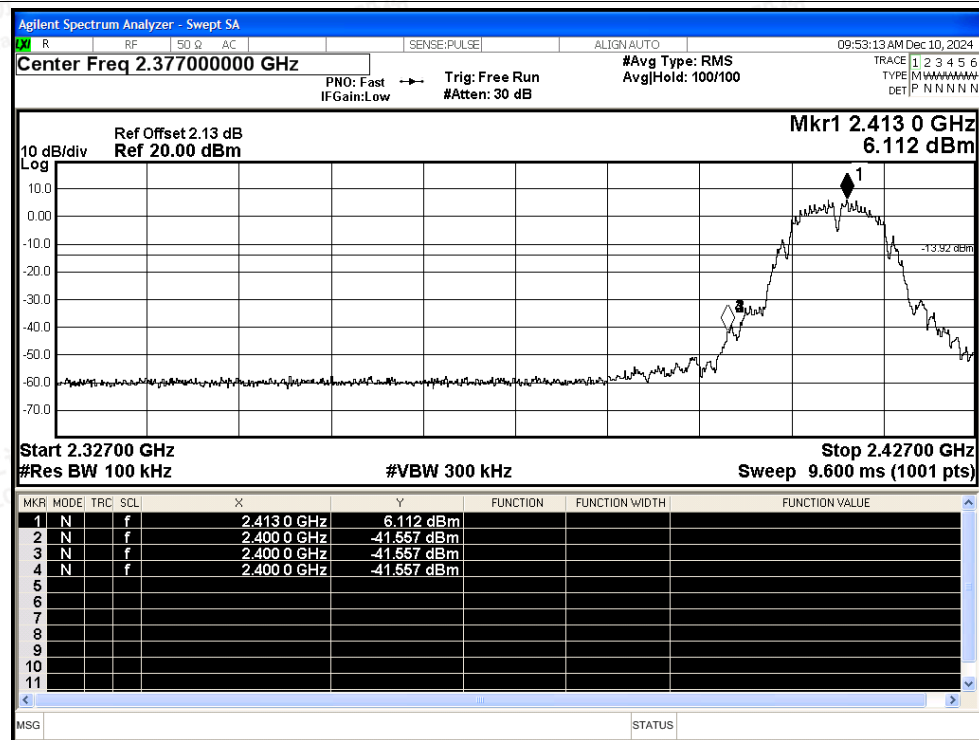


## Test Graphs

## Band Edge NVNT b 2412MHz Ant1 Ref



## Band Edge NVNT b 2412MHz Ant1 Emission



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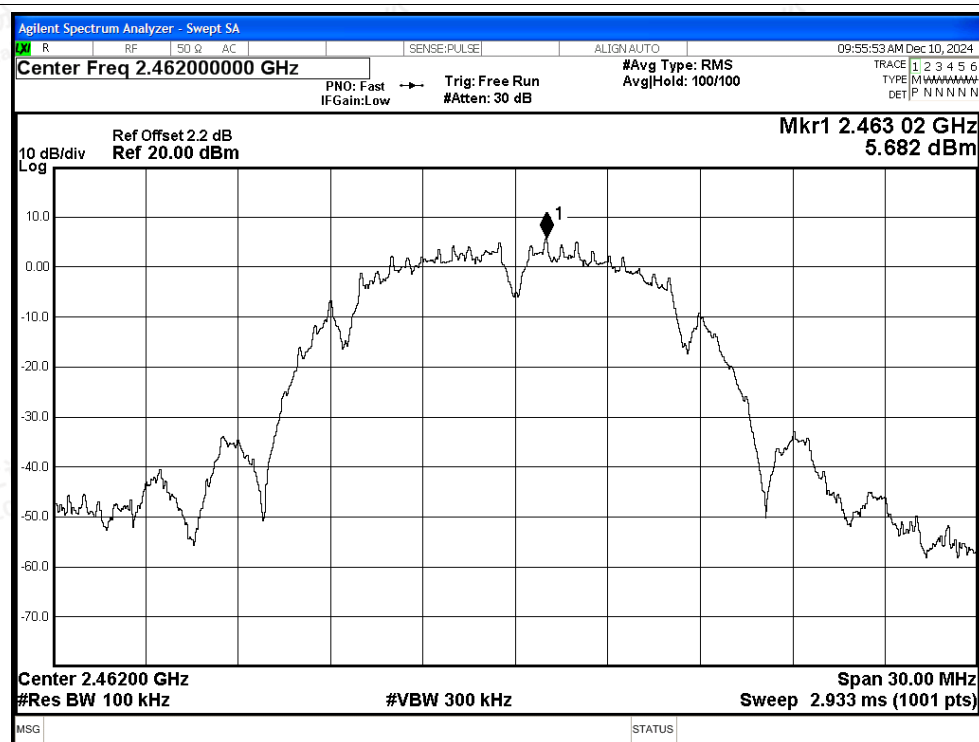
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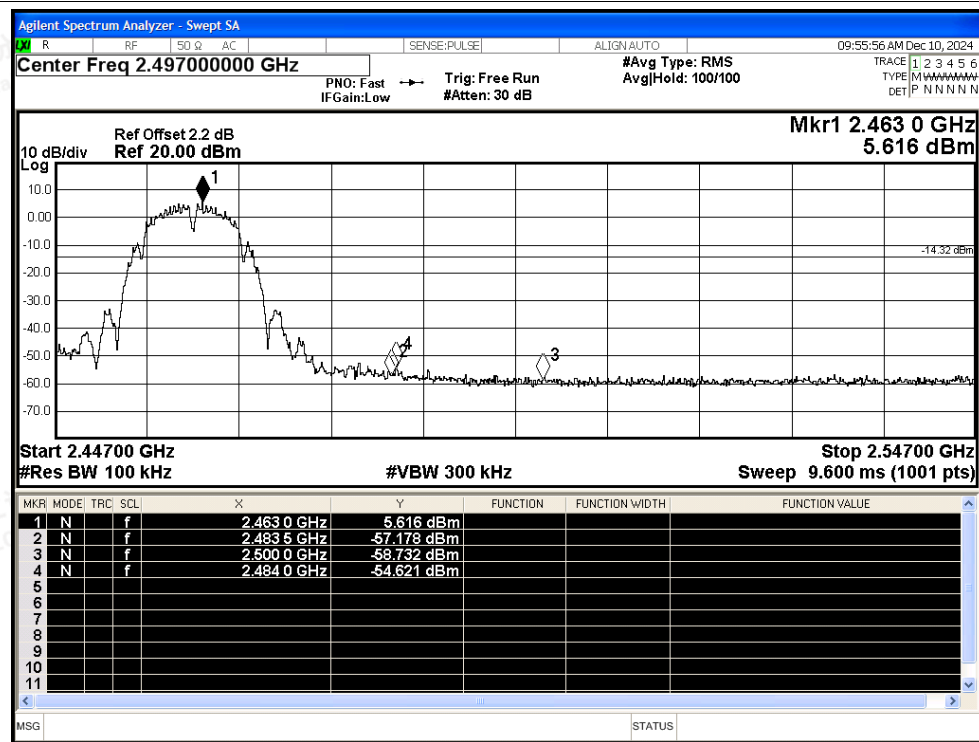




## Band Edge NVNT b 2462MHz Ant1 Ref



## Band Edge NVNT b 2462MHz Ant1 Emission



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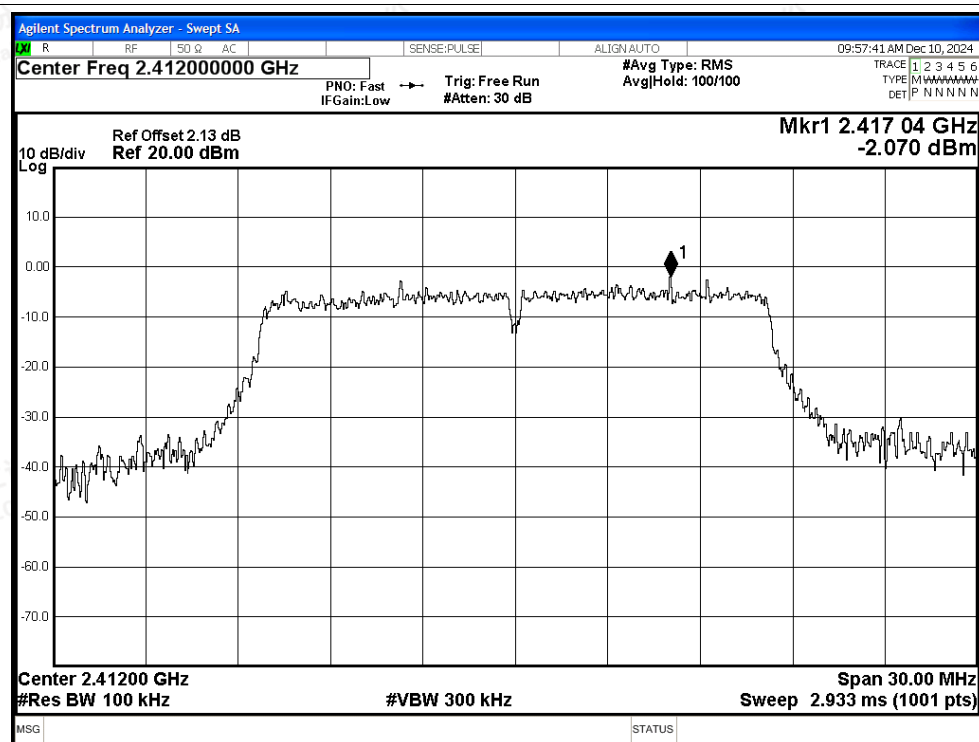
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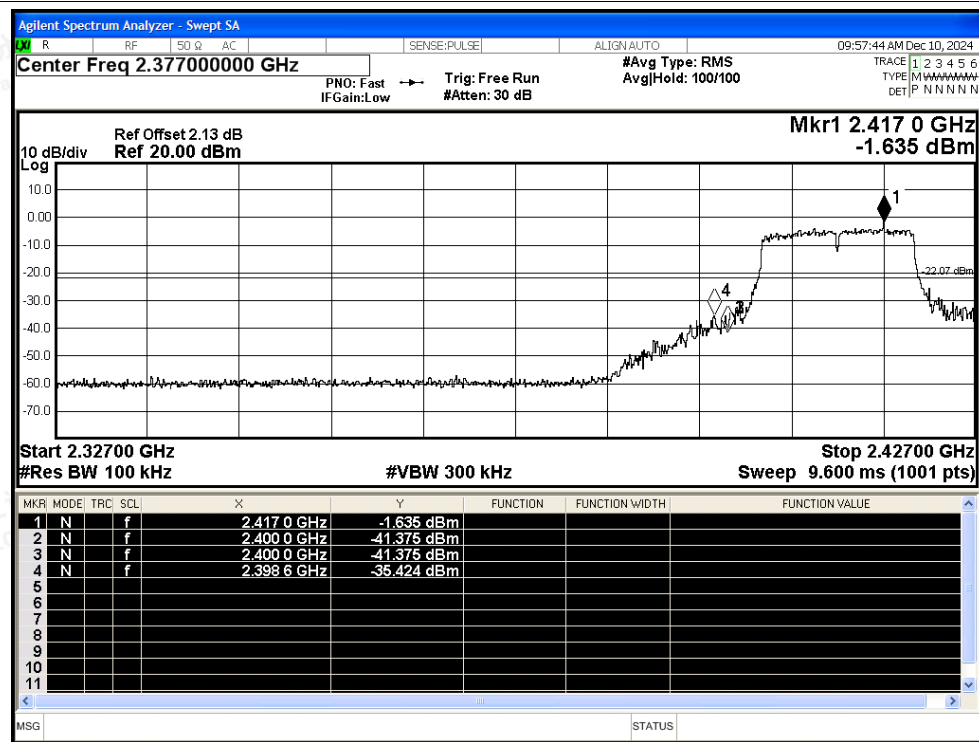
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## Band Edge NVNT g 2412MHz Ant1 Ref



## Band Edge NVNT g 2412MHz Ant1 Emission



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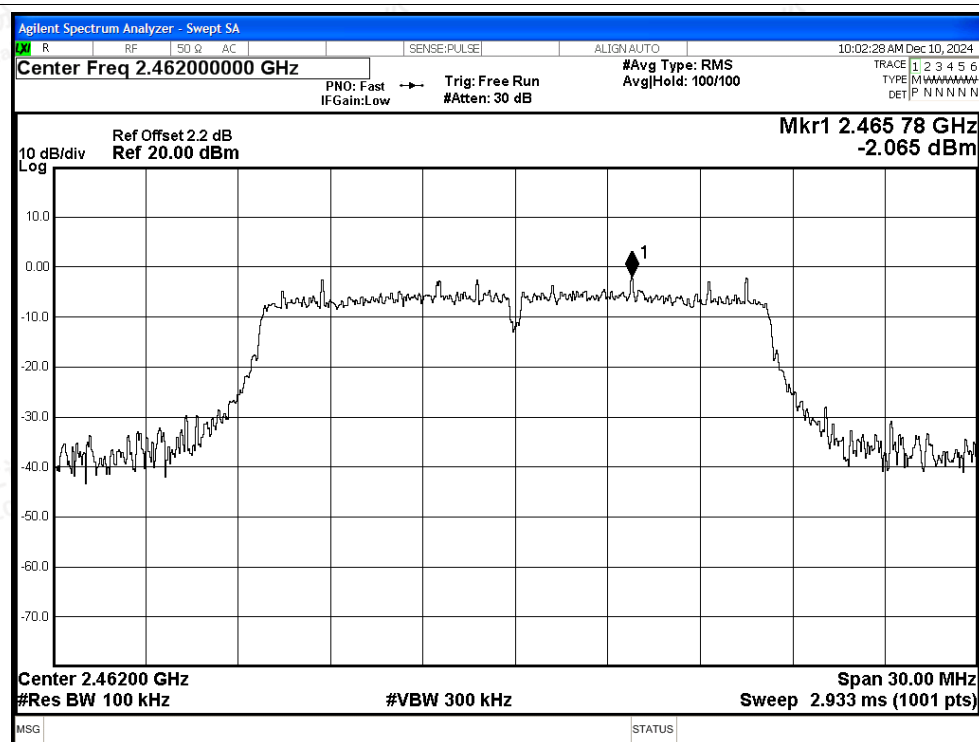
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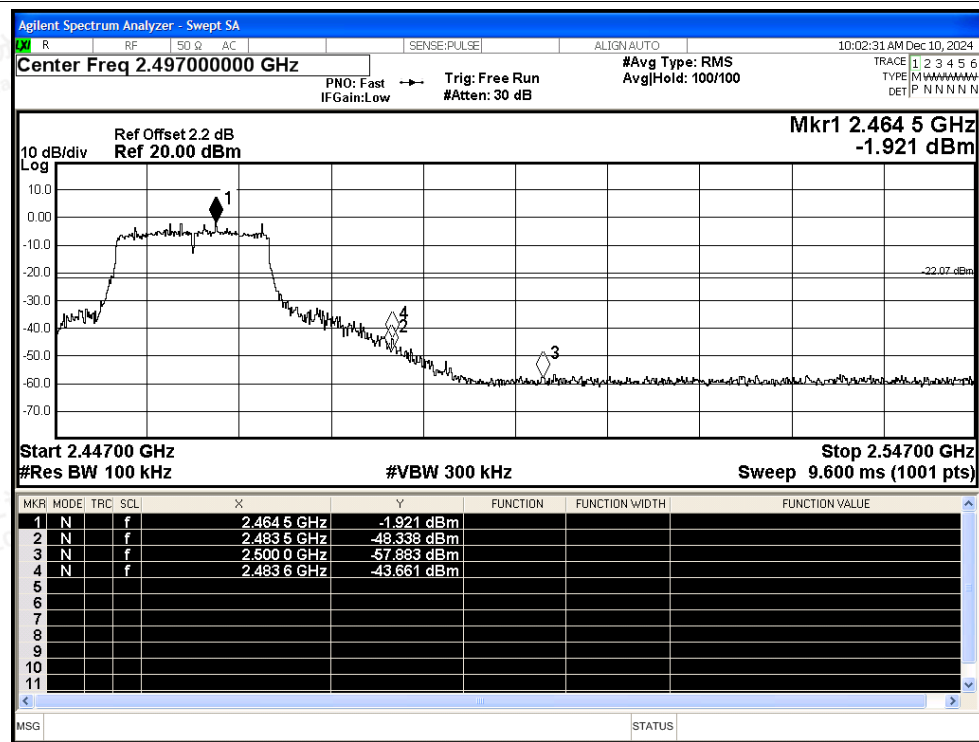
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## Band Edge NVNT g 2462MHz Ant1 Ref



## Band Edge NVNT g 2462MHz Ant1 Emission



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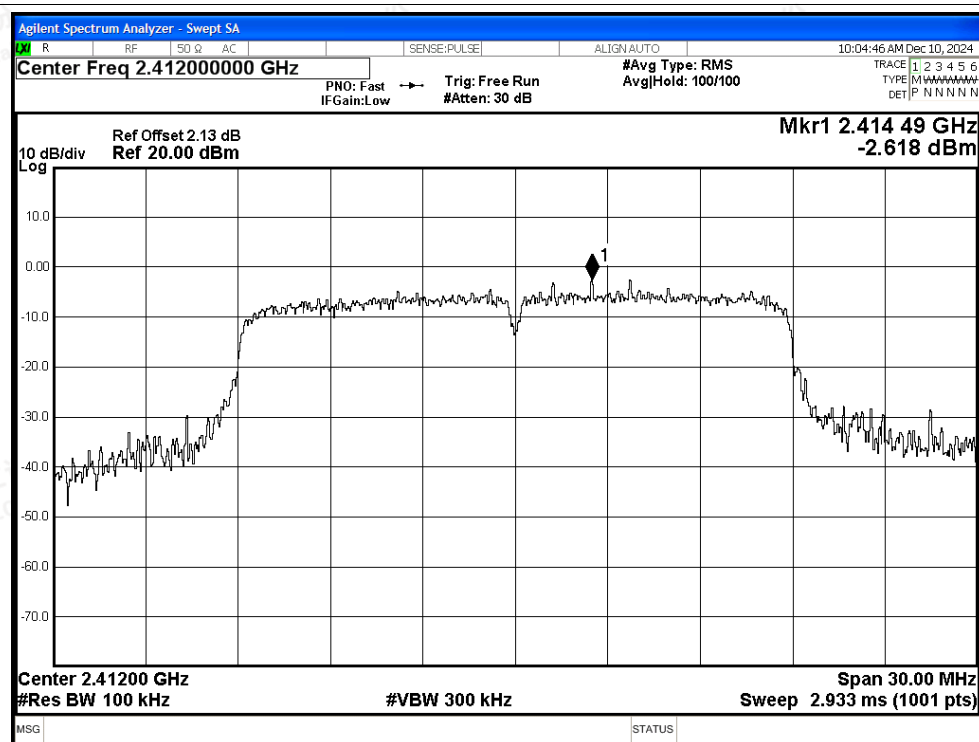
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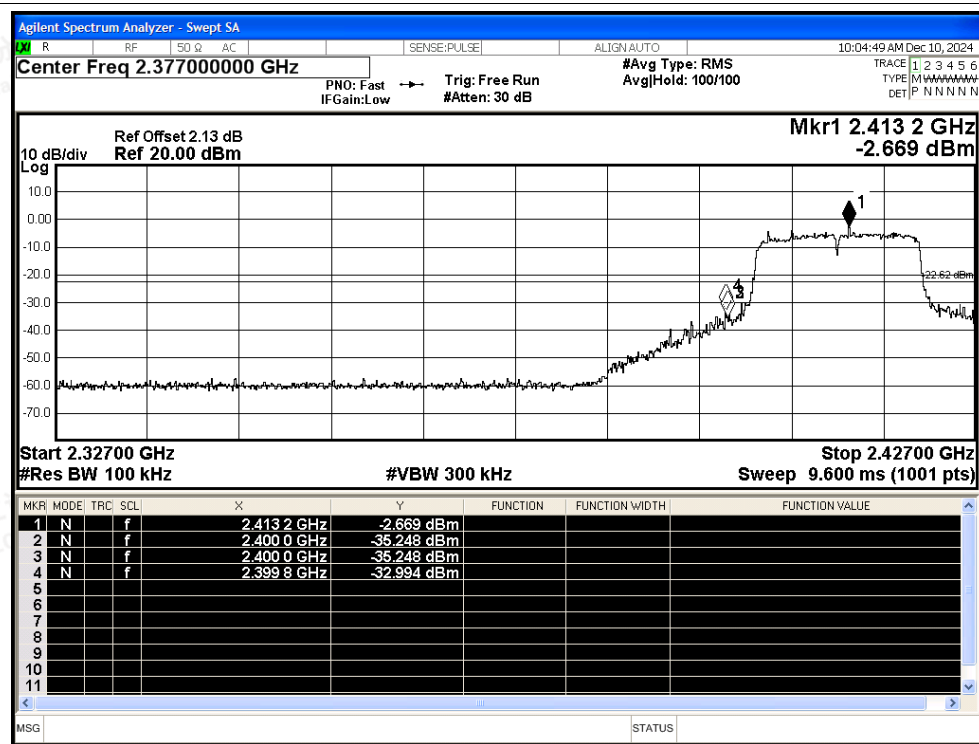
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## Band Edge NVNT n20 2412MHz Ant1 Ref



## Band Edge NVNT n20 2412MHz Ant1 Emission



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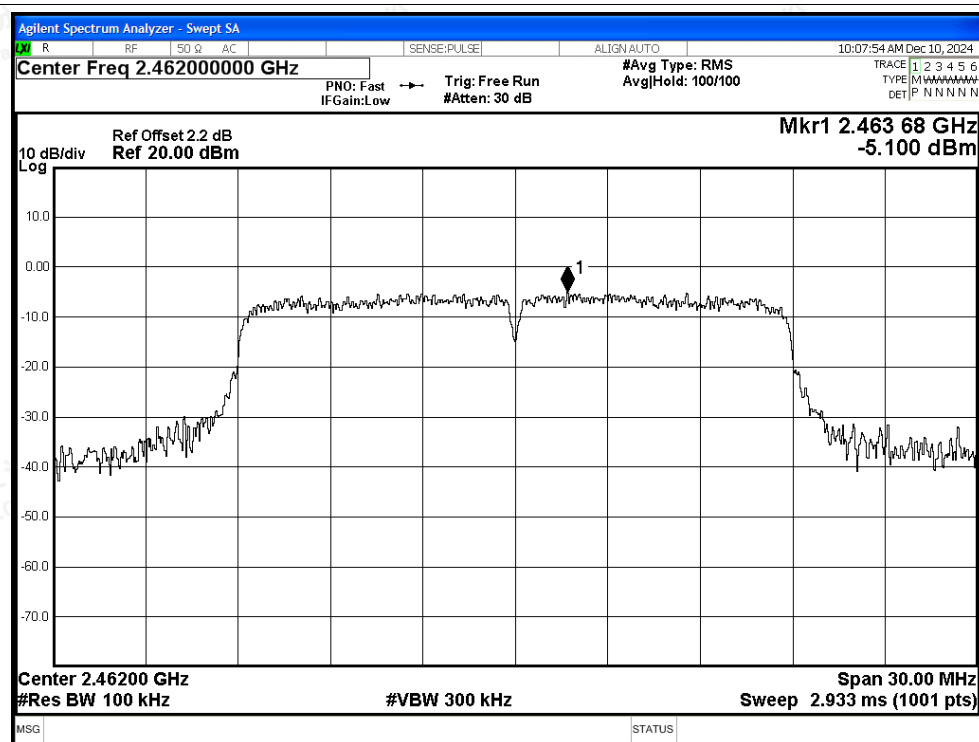
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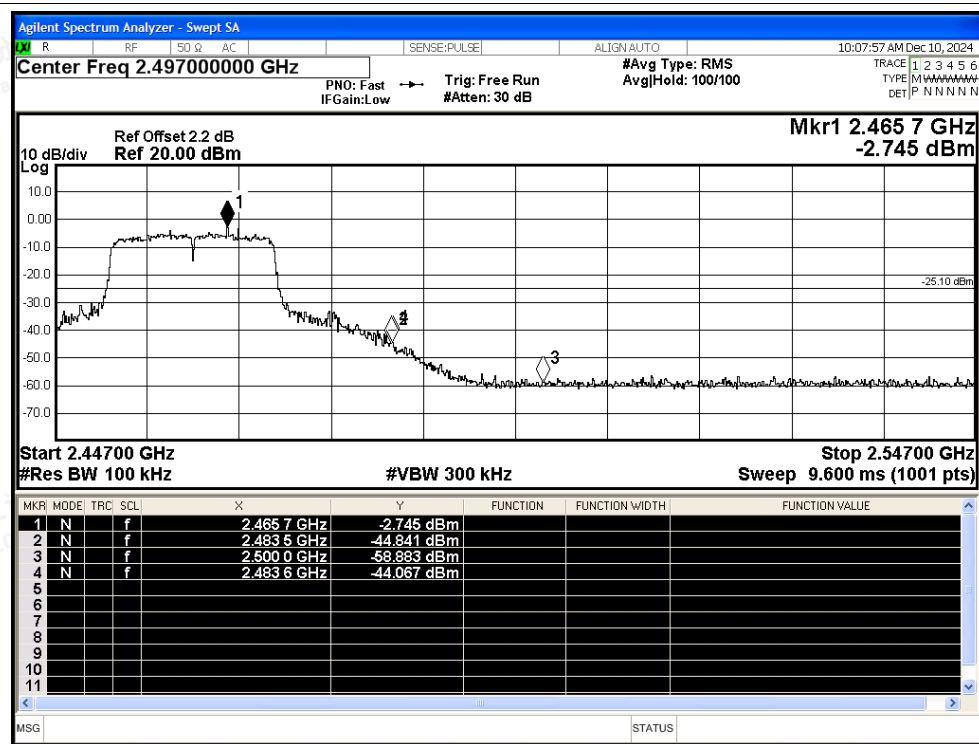
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## Band Edge NVNT n20 2462MHz Ant1 Ref



## Band Edge NVNT n20 2462MHz Ant1 Emission



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## B.5 Conducted RF Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -51.77          | -20         | Pass    |
| NVNT      | b    | 2437            | Ant1    | -51             | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -52.35          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -44.68          | -20         | Pass    |
| NVNT      | g    | 2437            | Ant1    | -44.09          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -44.08          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -43.3           | -20         | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -43.52          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -43.48          | -20         | Pass    |

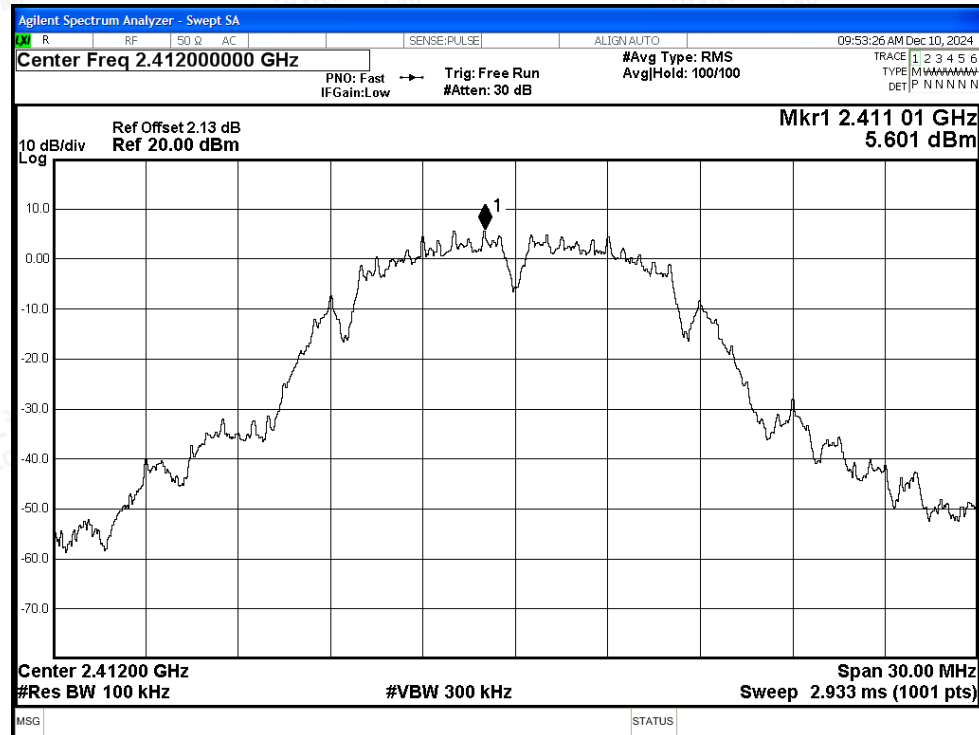


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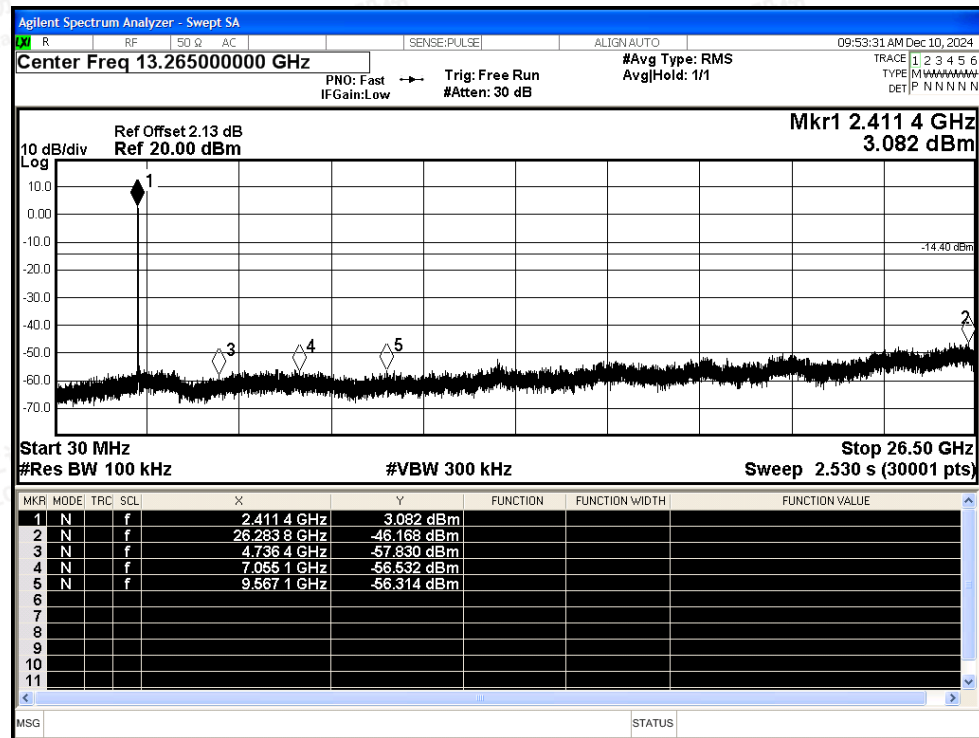


## Test Graphs

## Tx. Spurious NVNT b 2412MHz Ant1 Ref



## Tx. Spurious NVNT b 2412MHz Ant1 Emission



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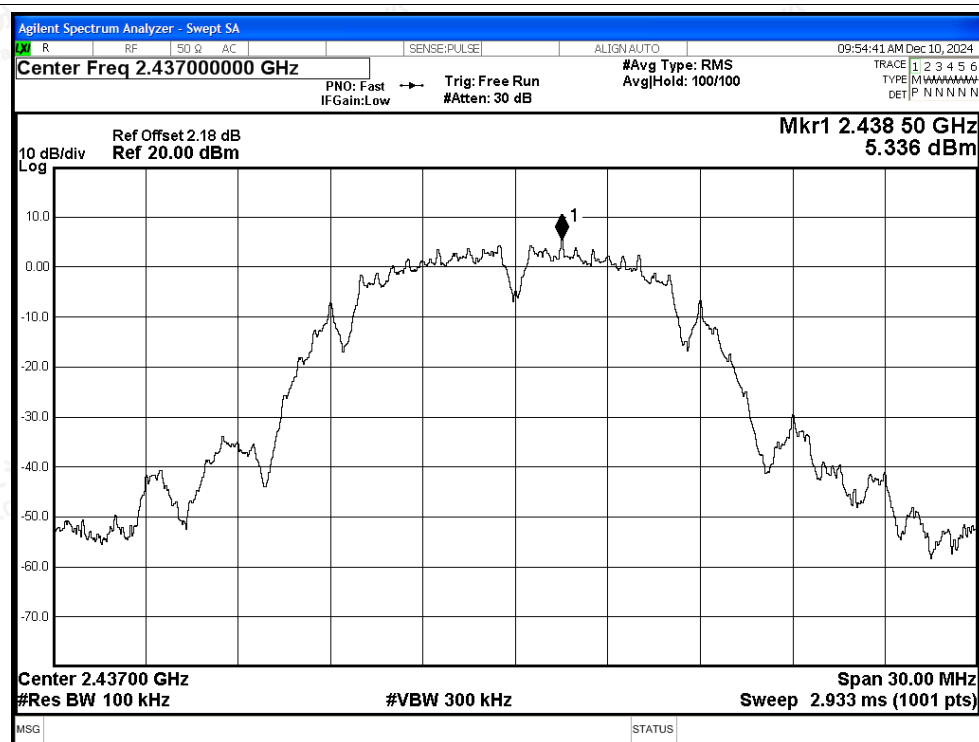
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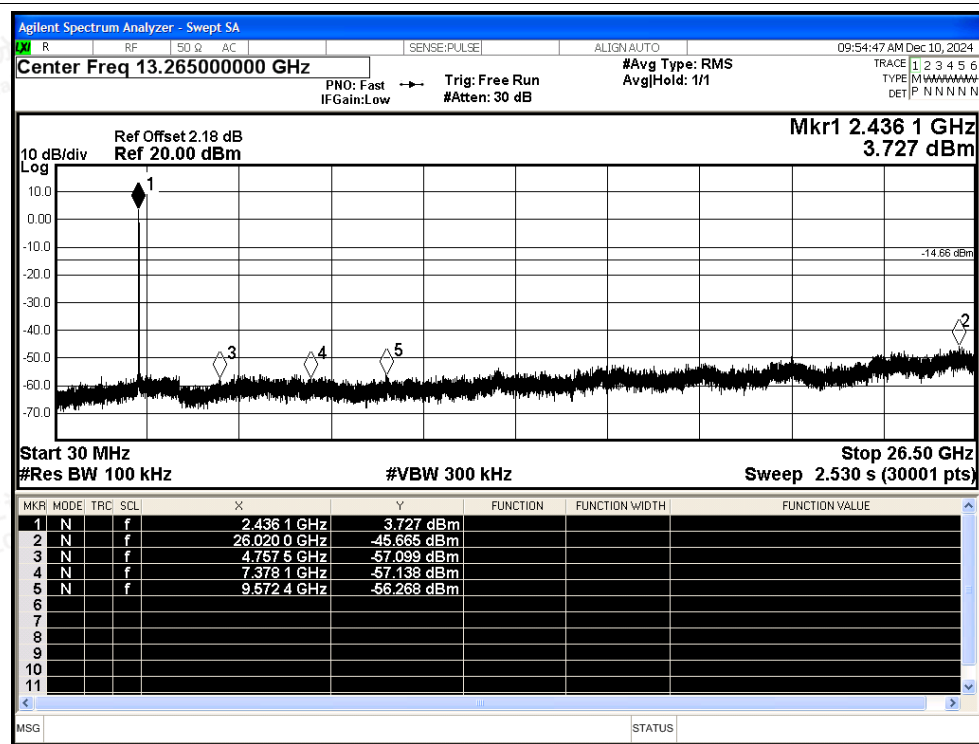
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## Tx. Spurious NVNT b 2437MHz Ant1 Ref



## Tx. Spurious NVNT b 2437MHz Ant1 Emission



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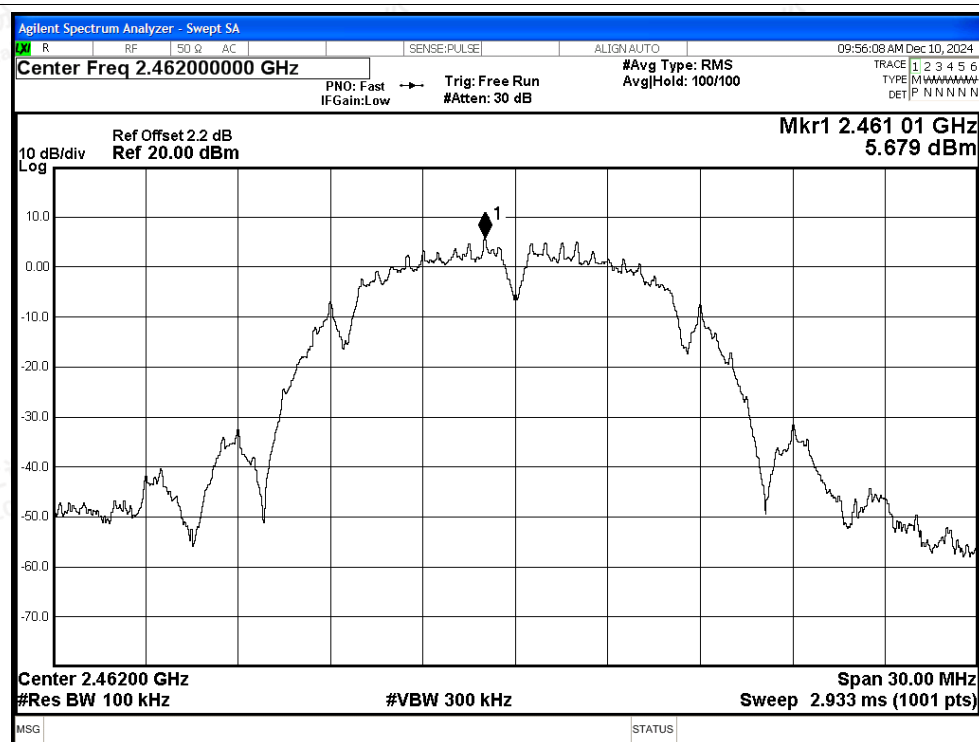
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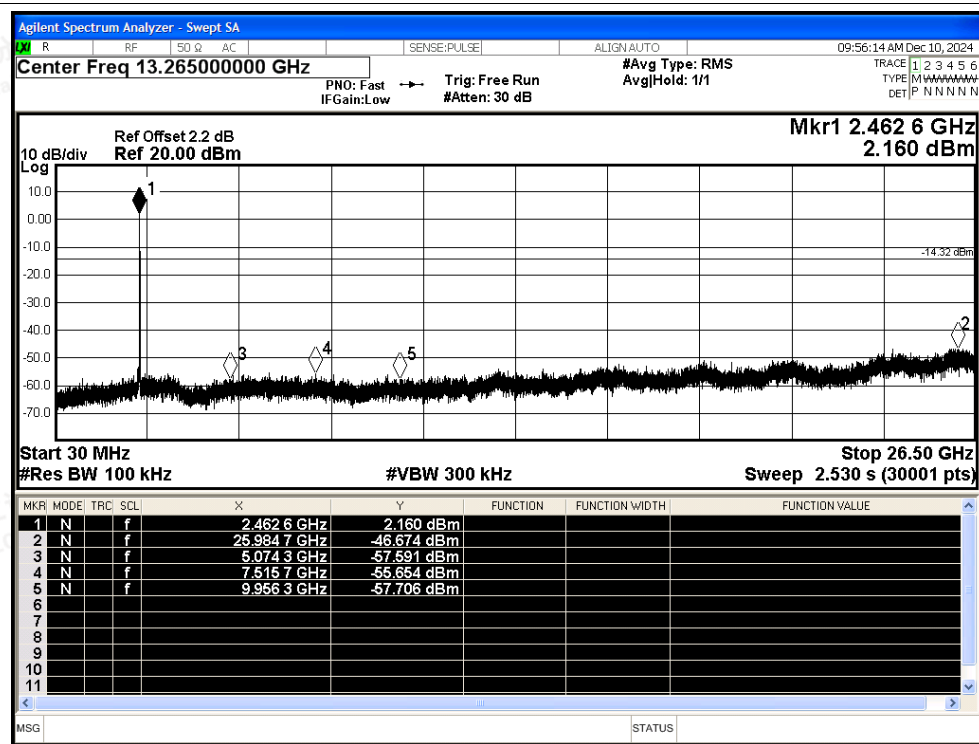




## Tx. Spurious NVNT b 2462MHz Ant1 Ref



## Tx. Spurious NVNT b 2462MHz Ant1 Emission



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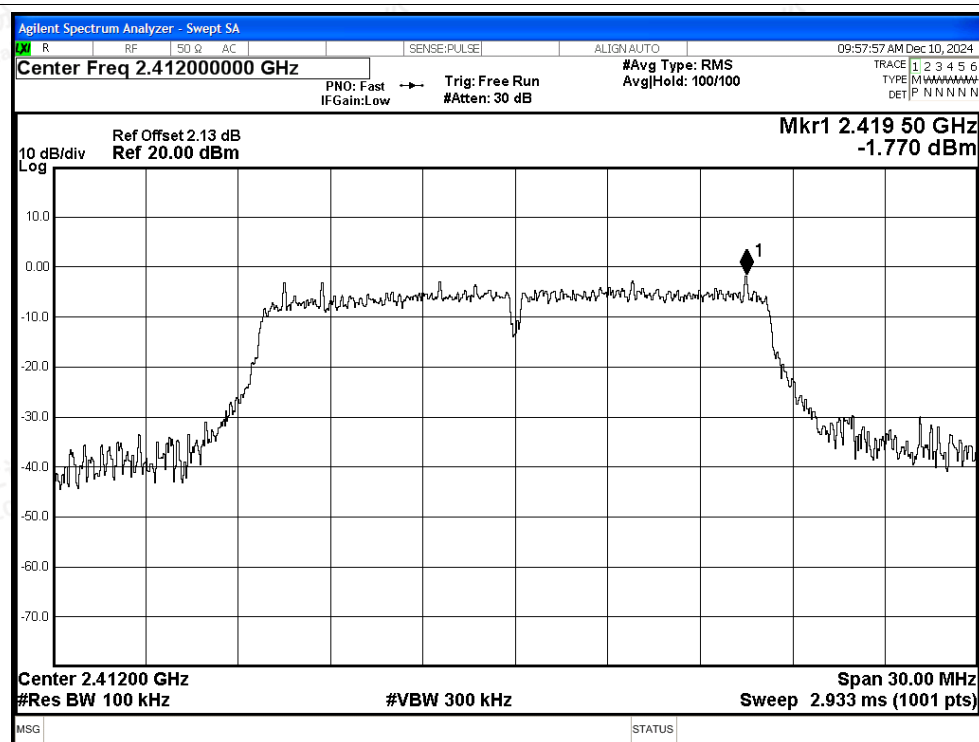
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

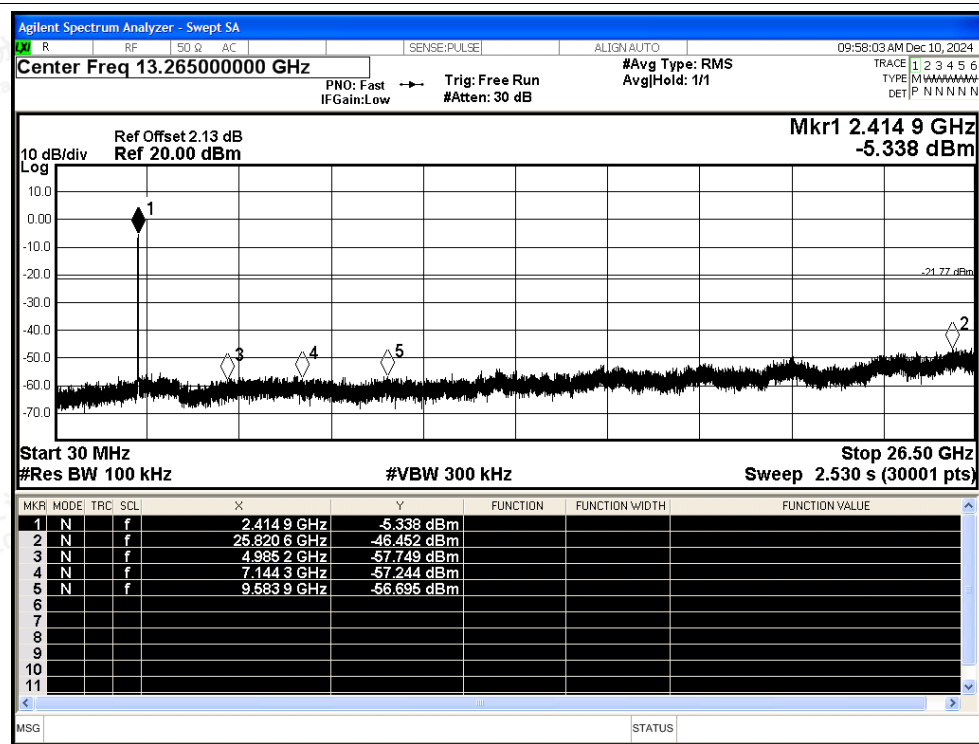
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## Tx. Spurious NVNT g 2412MHz Ant1 Ref



## Tx. Spurious NVNT g 2412MHz Ant1 Emission



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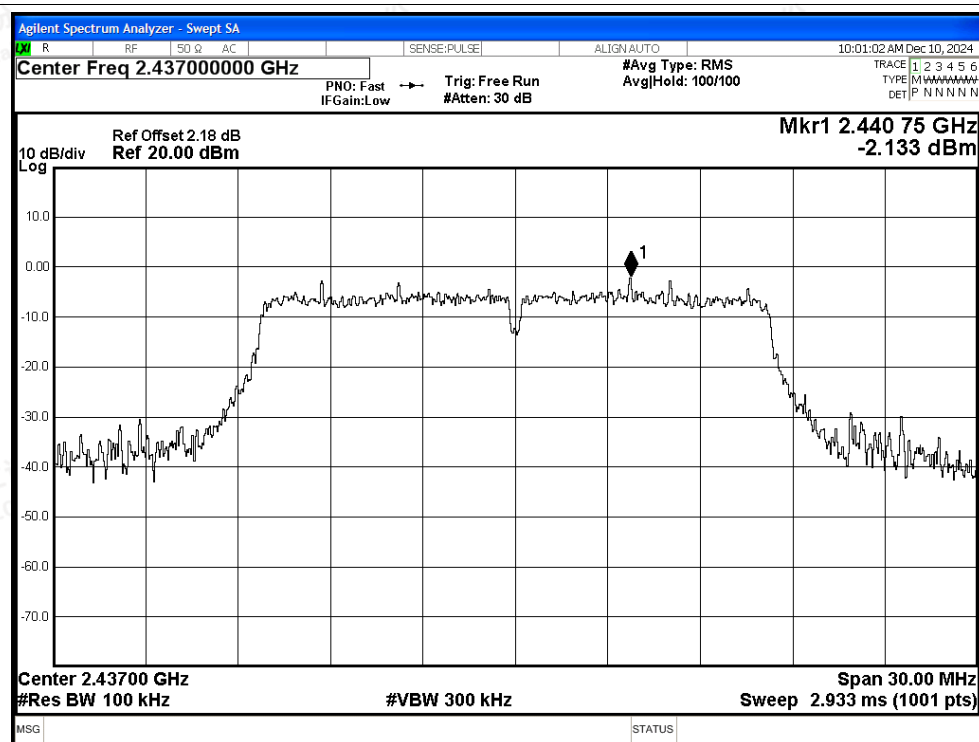
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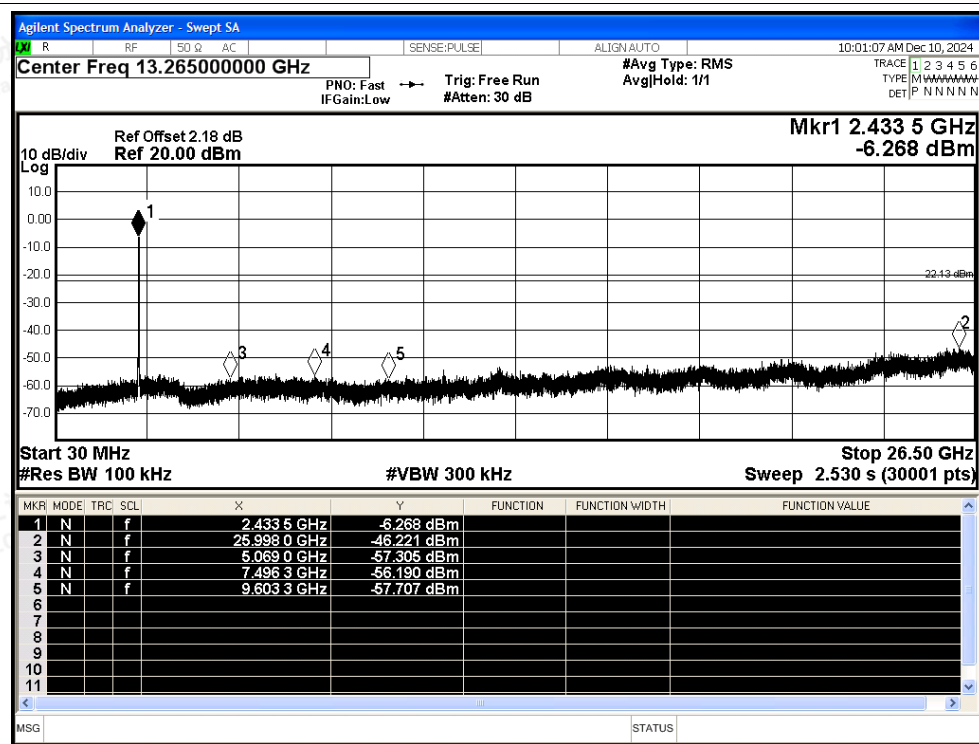
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## Tx. Spurious NVNT g 2437MHz Ant1 Ref



## Tx. Spurious NVNT g 2437MHz Ant1 Emission



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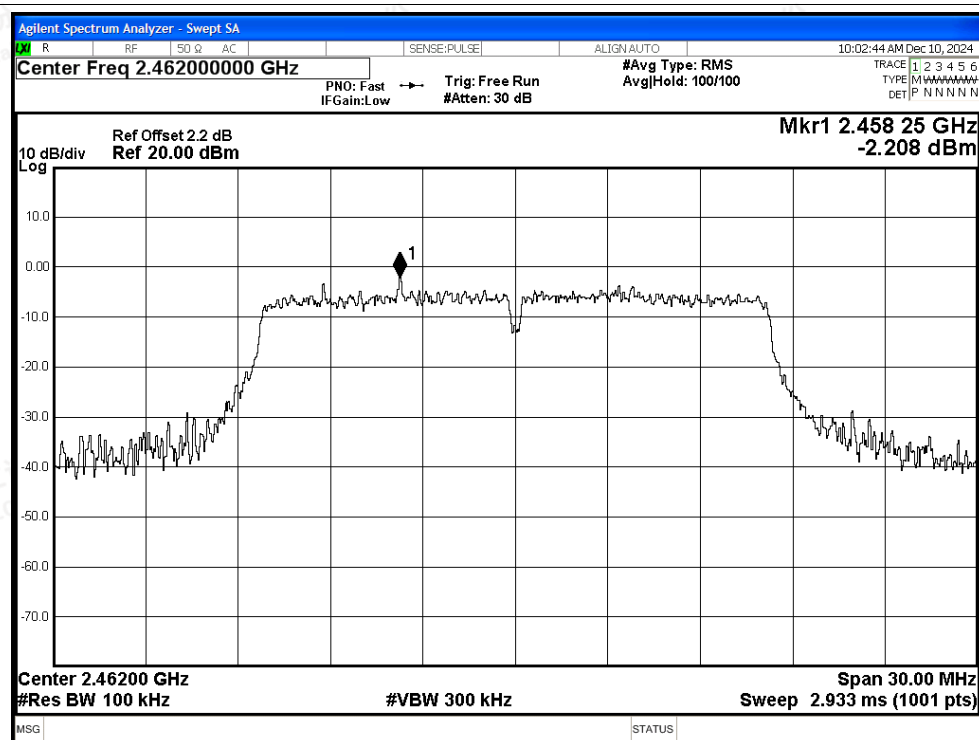
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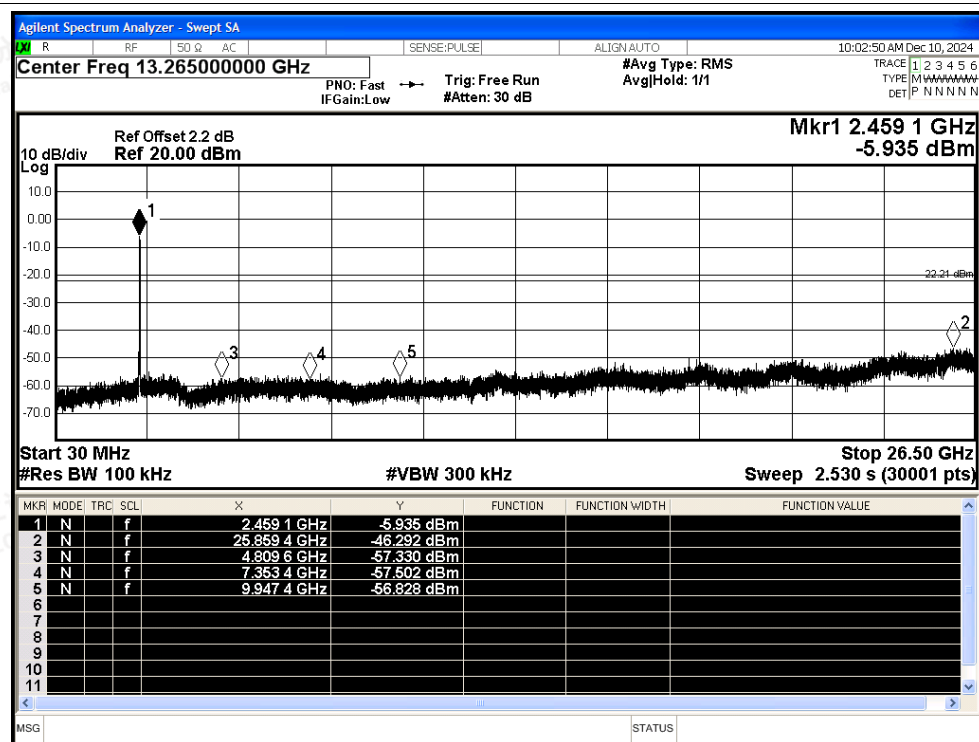
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## Tx. Spurious NVNT g 2462MHz Ant1 Ref



## Tx. Spurious NVNT g 2462MHz Ant1 Emission



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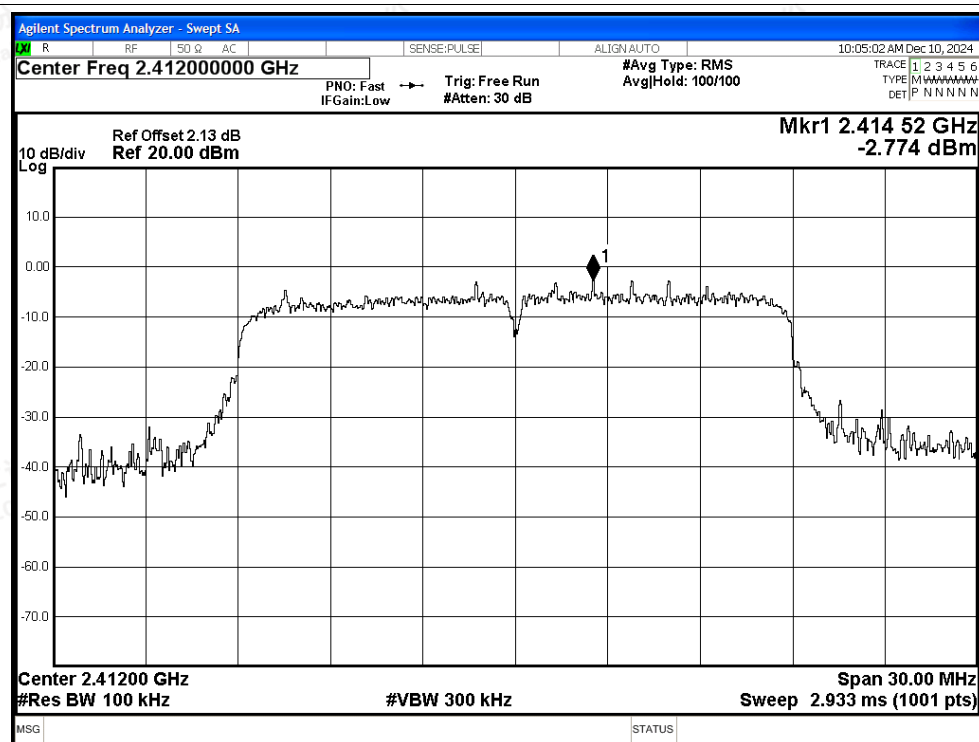
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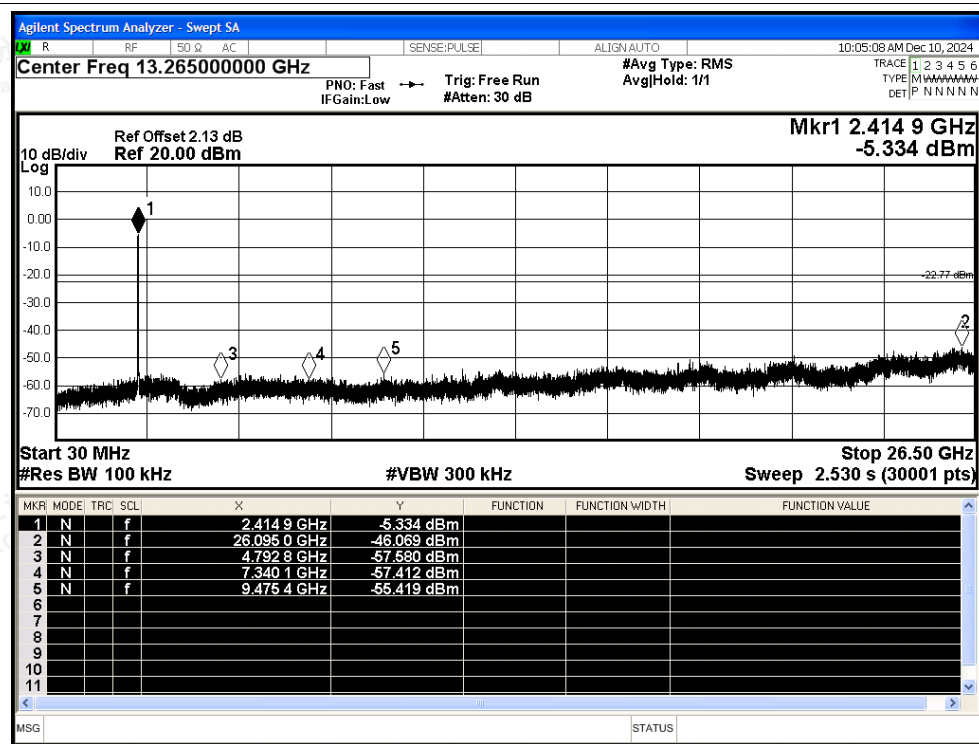
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## Tx. Spurious NVNT n20 2412MHz Ant1 Ref



## Tx. Spurious NVNT n20 2412MHz Ant1 Emission



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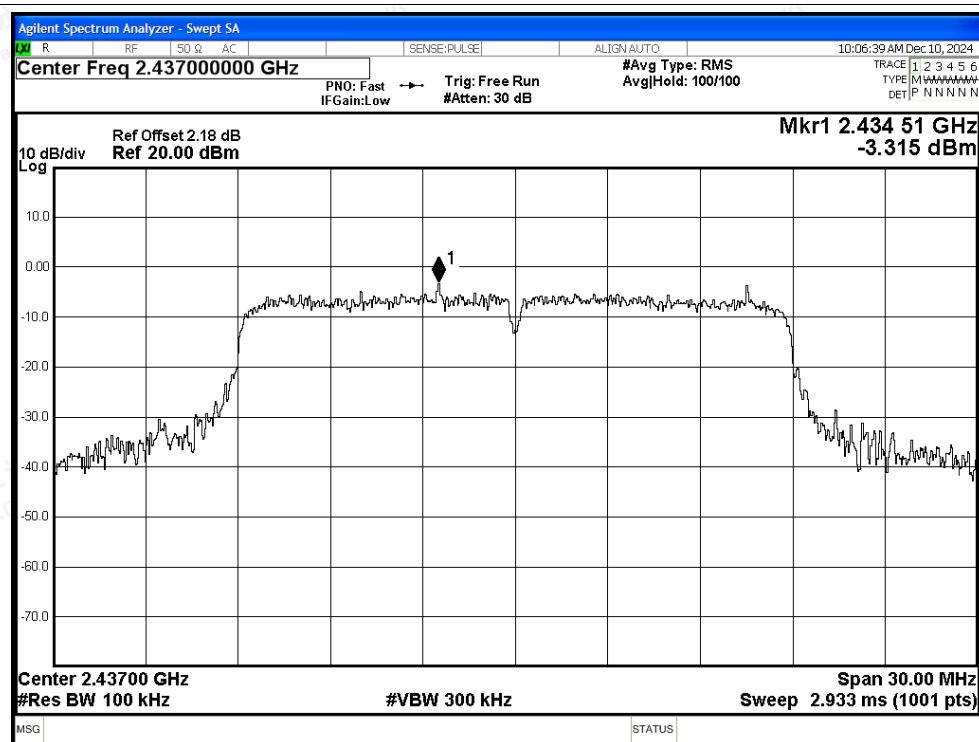
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

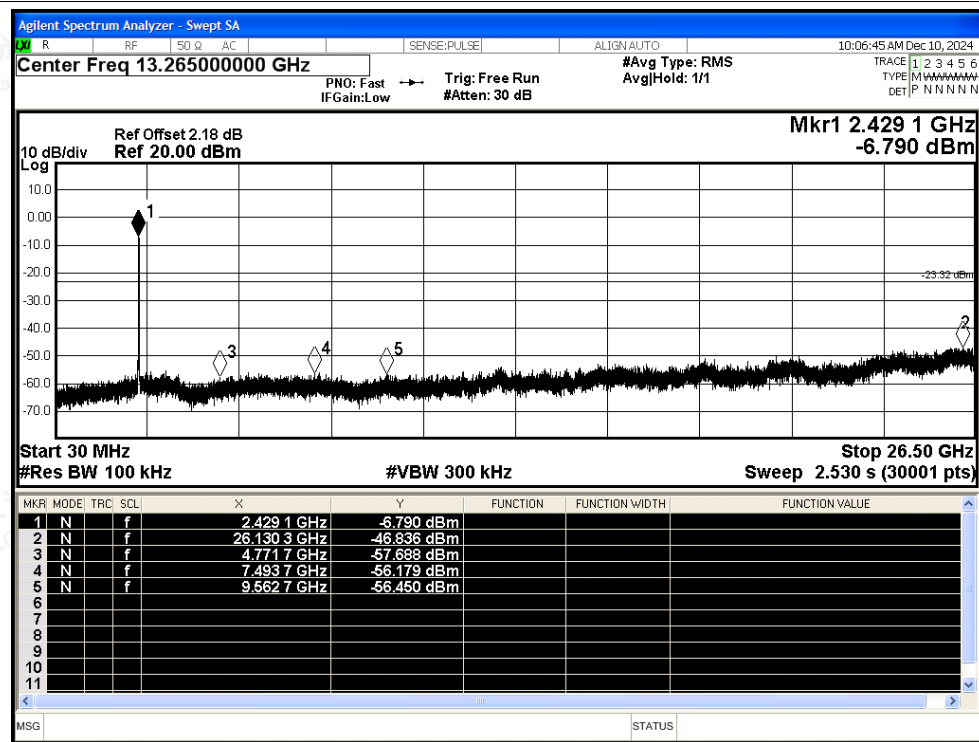
Scan code to check authenticity



## Tx. Spurious NVNT n20 2437MHz Ant1 Ref



## Tx. Spurious NVNT n20 2437MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

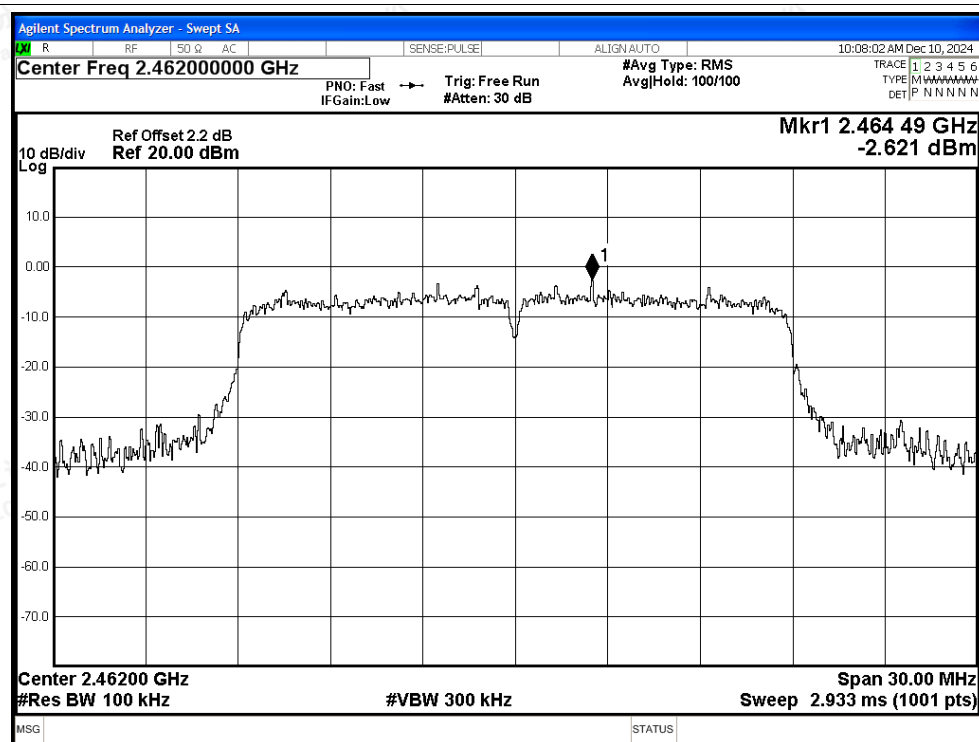
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

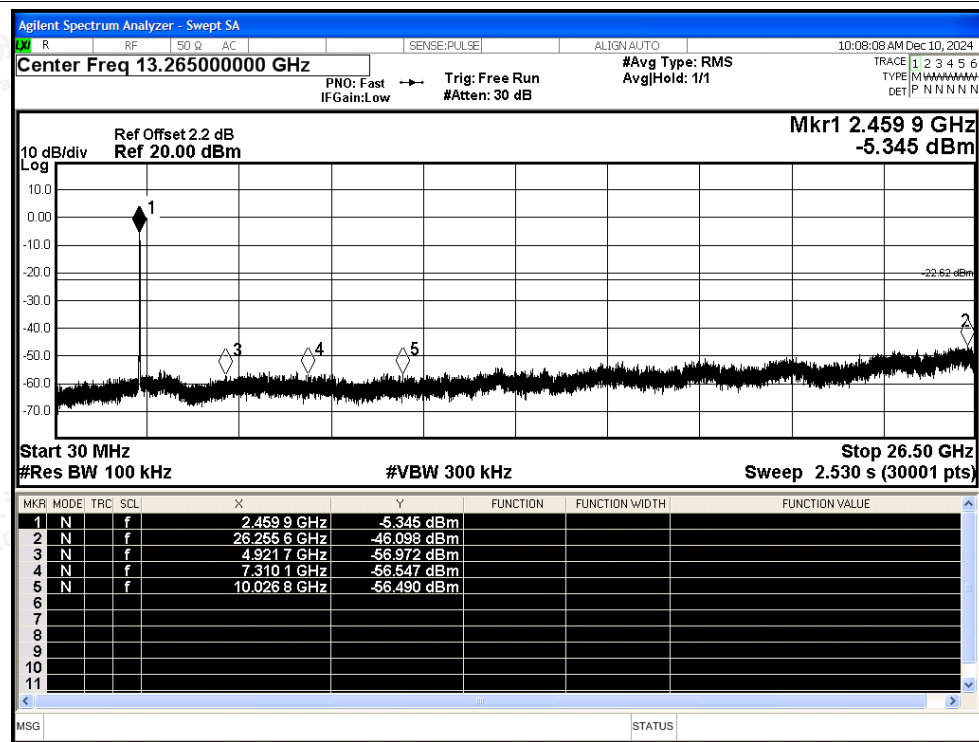
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## Tx. Spurious NVNT n20 2462MHz Ant1 Ref



## Tx. Spurious NVNT n20 2462MHz Ant1 Emission



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## B.6 Duty Cycle

| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | b    | 2412            | Ant1    | 99.13          | 0                      | 0.15      |
| NVNT      | b    | 2437            | Ant1    | 99.13          | 0                      | 0.15      |
| NVNT      | b    | 2462            | Ant1    | 99.16          | 0                      | 0.15      |
| NVNT      | g    | 2412            | Ant1    | 97.68          | 0.1                    | 0.37      |
| NVNT      | g    | 2437            | Ant1    | 97.68          | 0.1                    | 0.37      |
| NVNT      | g    | 2462            | Ant1    | 97.75          | 0.1                    | 0.37      |
| NVNT      | n20  | 2412            | Ant1    | 97.33          | 0.12                   | 0.44      |
| NVNT      | n20  | 2437            | Ant1    | 97.33          | 0.12                   | 0.44      |
| NVNT      | n20  | 2462            | Ant1    | 97.25          | 0.12                   | 0.44      |



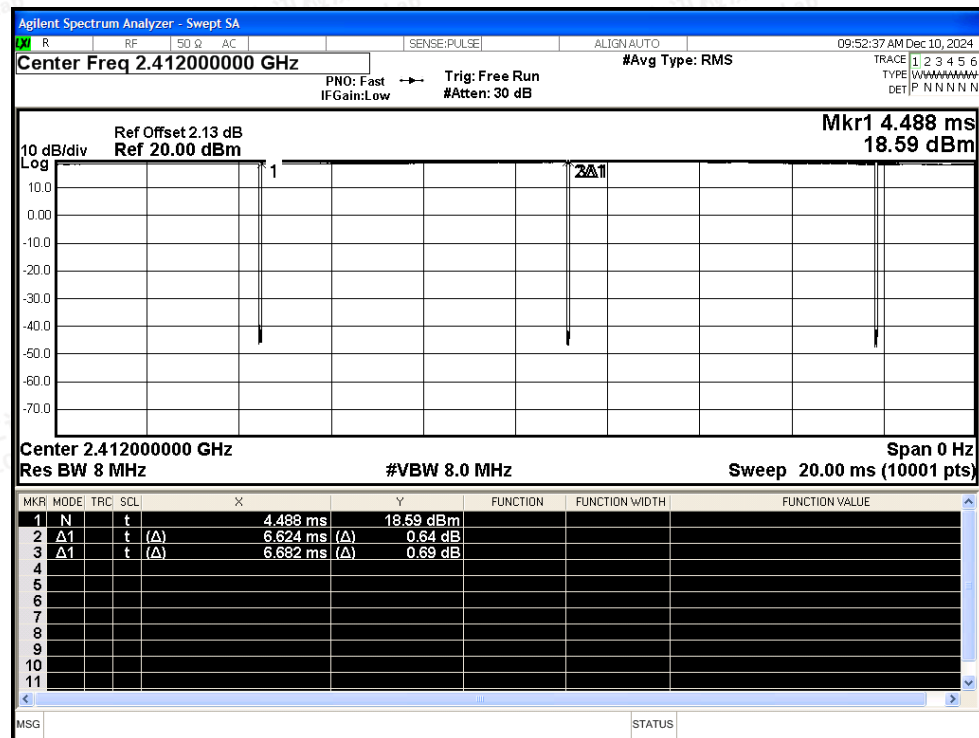
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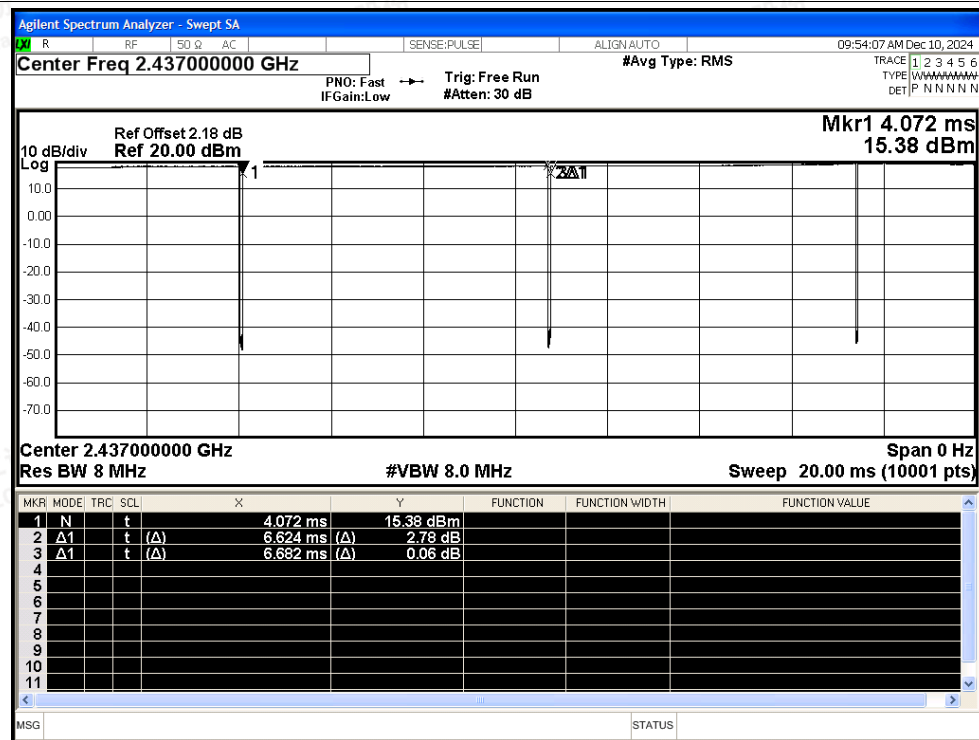


## Test Graphs

## Duty Cycle NVNT b 2412MHz Ant1



## Duty Cycle NVNT b 2437MHz Ant1



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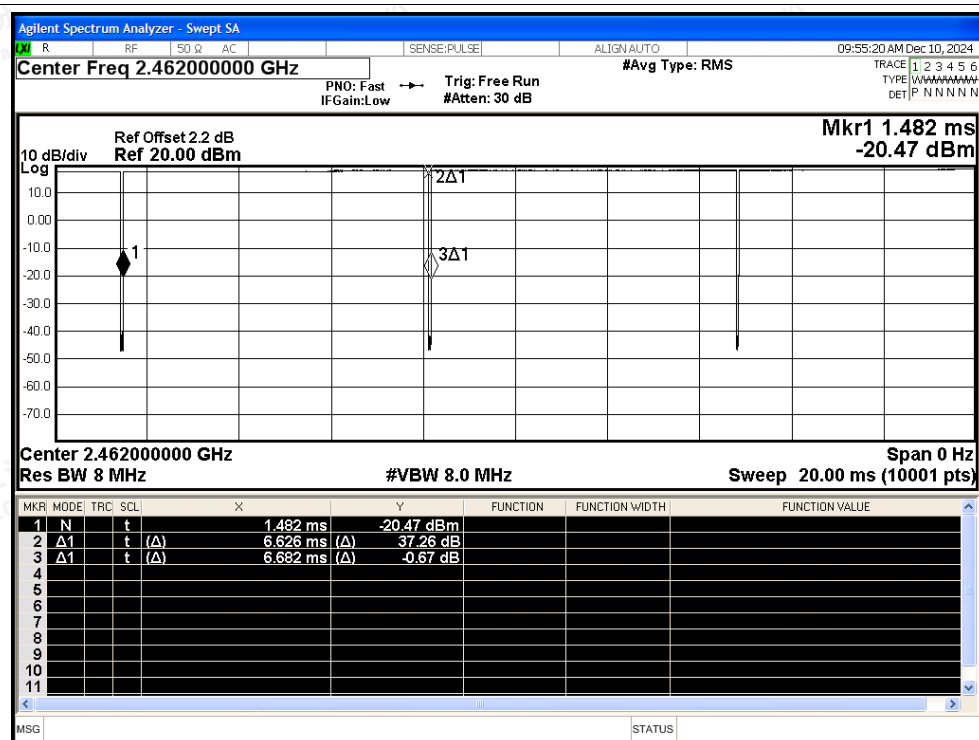
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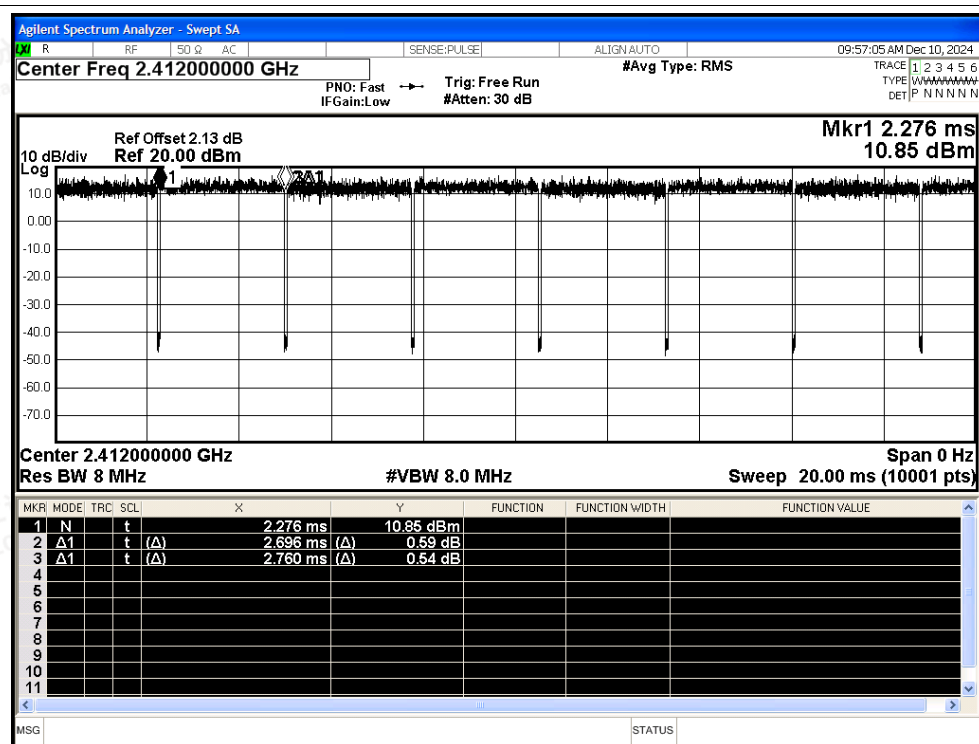
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## Duty Cycle NVNT b 2462MHz Ant1



## Duty Cycle NVNT g 2412MHz Ant1



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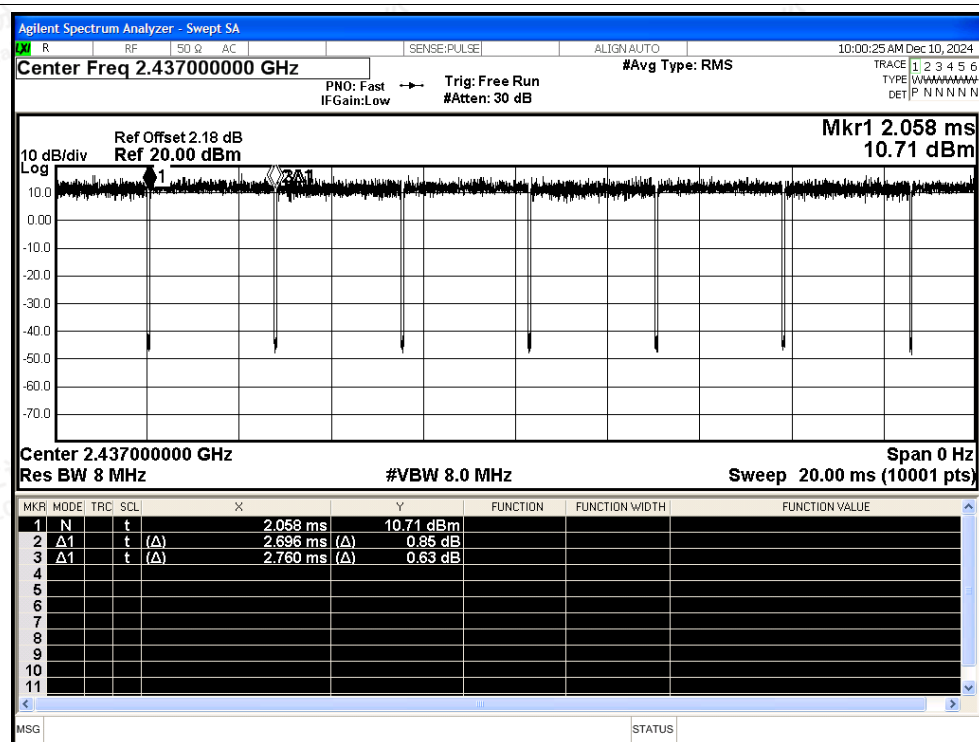
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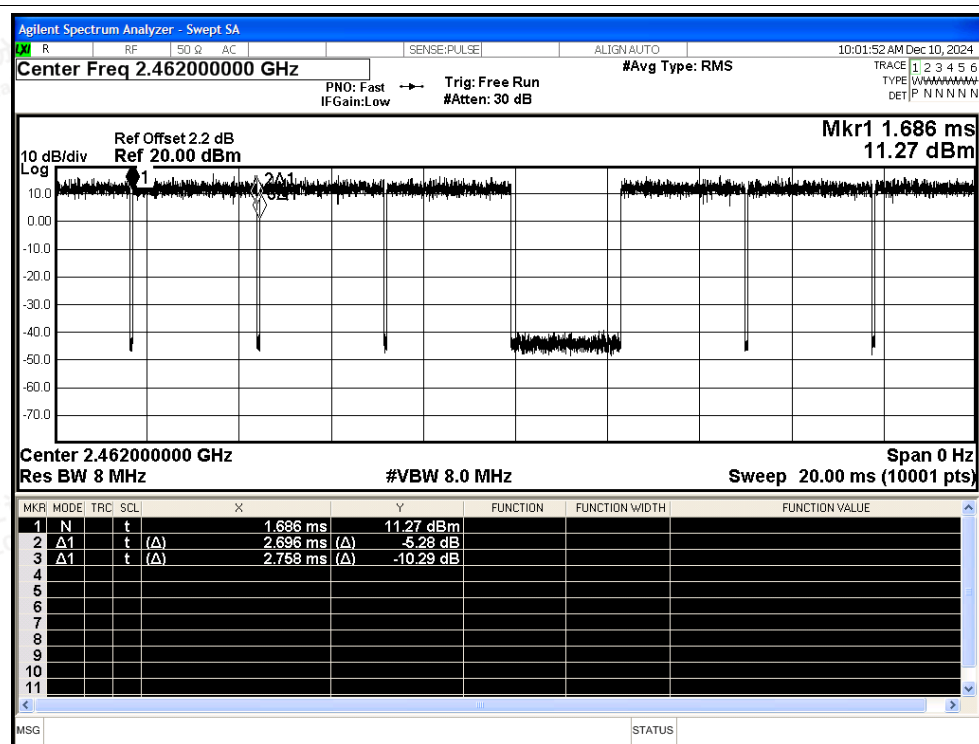
Scan code to check authenticity



## Duty Cycle NVNT g 2437MHz Ant1



## Duty Cycle NVNT g 2462MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

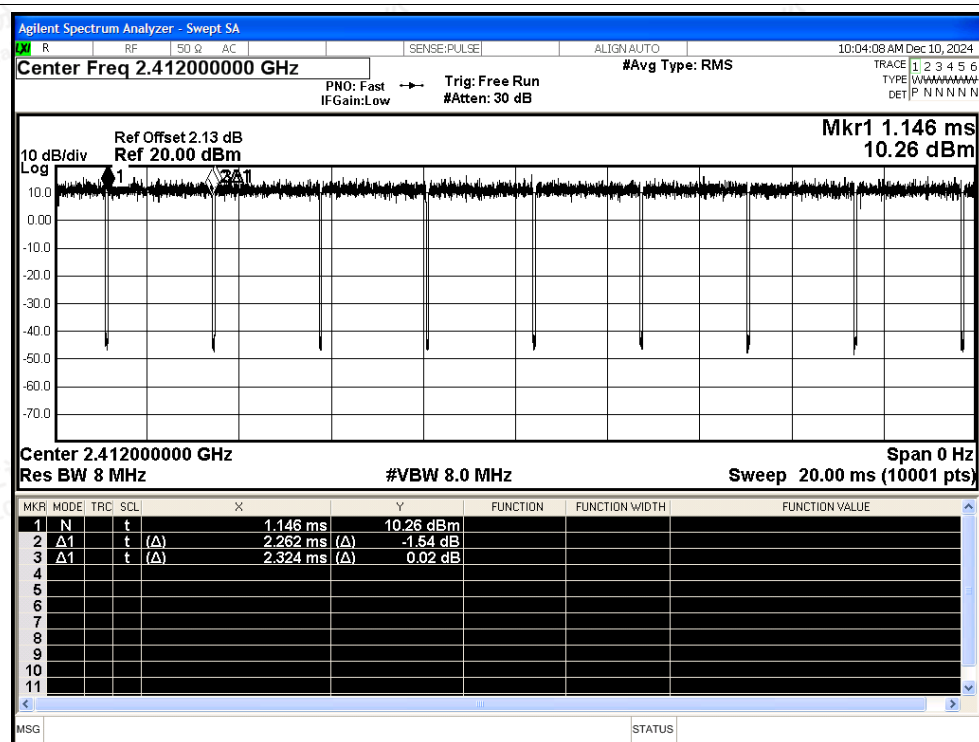
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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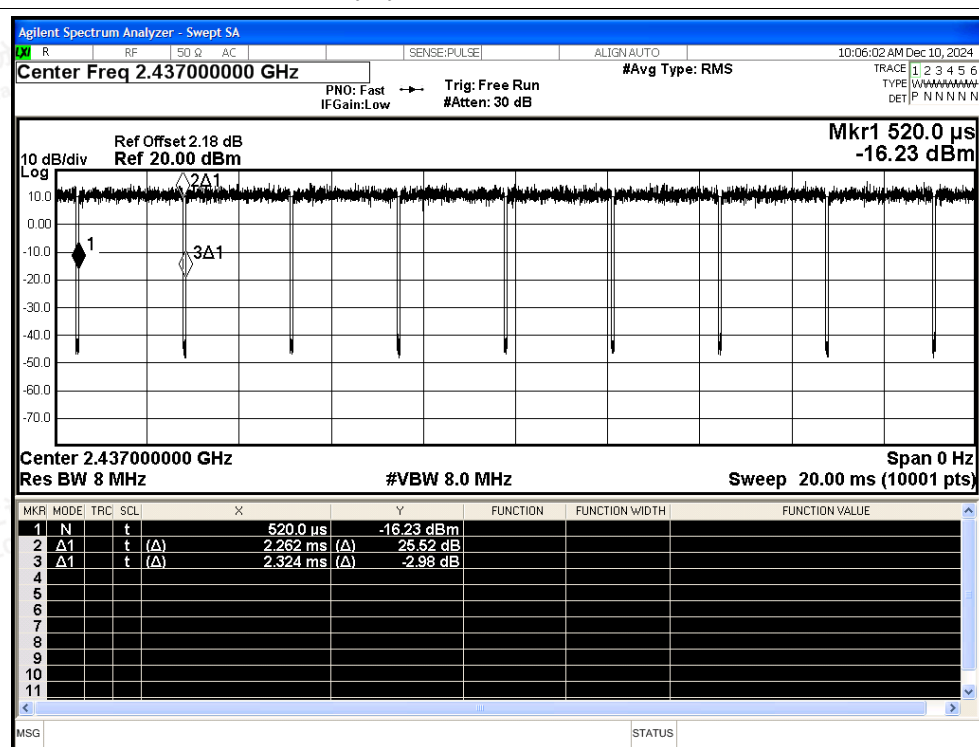
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## Duty Cycle NVNT n20 2412MHz Ant1



## Duty Cycle NVNT n20 2437MHz Ant1

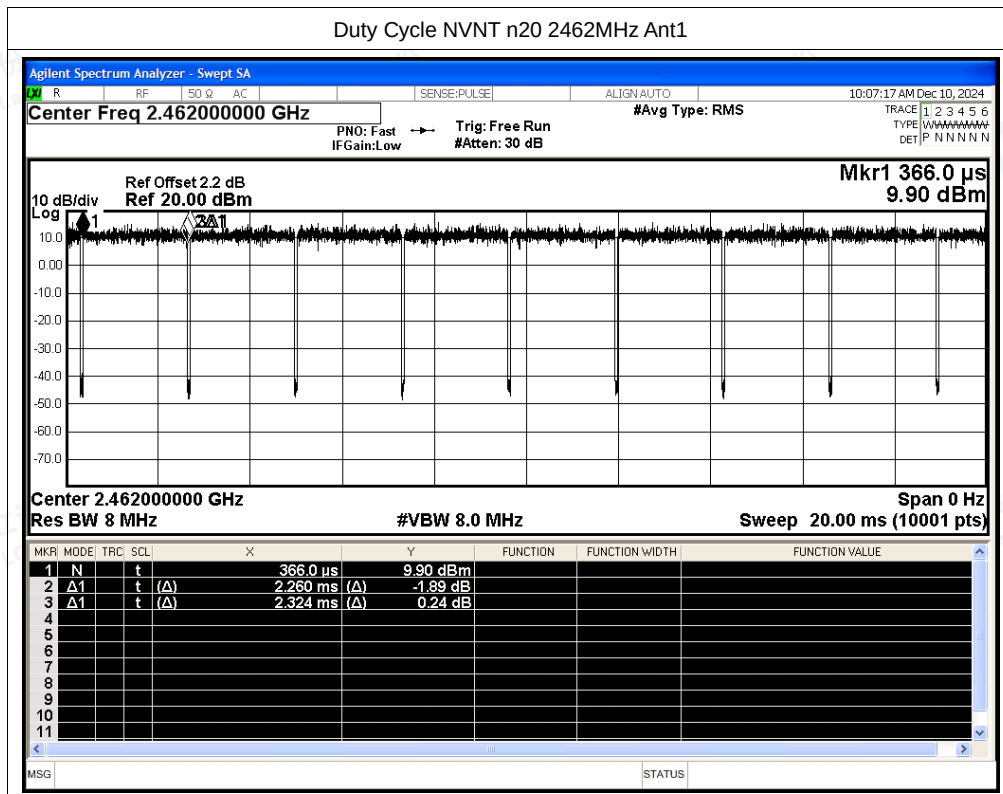


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## B.7 Restrict Band

| Condition | Mode | Frequency (MHz) | Antenna | Spur Freq (MHz) | Power (dBm) | Gain (dBi) | Duty Factor (dB) | E (dBuV/m) | Detector | Limit (dBuV/m) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|------------|------------------|------------|----------|----------------|---------|
| NVNT      | b    | 2412            | Ant1    | 2310            | -51.42      | 2.21       | -                | 46.05      | Peak     | 74             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2310            | -58.94      | 2.21       | 0                | 38.53      | Average  | 54             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2389.911        | -47.01      | 2.21       | -                | 50.46      | Peak     | 74             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2389.911        | -55.37      | 2.21       | 0                | 42.10      | Average  | 54             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2390            | -46.81      | 2.21       | -                | 50.66      | Peak     | 74             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2390            | -55.24      | 2.21       | 0                | 42.23      | Average  | 54             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2483.5          | -46.02      | 2.21       | -                | 51.45      | Peak     | 74             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2483.5          | -54.49      | 2.21       | 0                | 42.98      | Average  | 54             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2484.418        | -45.94      | 2.21       | -                | 51.53      | Peak     | 74             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2484.047        | -54.16      | 2.21       | 0                | 43.31      | Average  | 54             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2500            | -49.61      | 2.21       | -                | 47.86      | Peak     | 74             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2500            | -57.74      | 2.21       | 0                | 39.73      | Average  | 54             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2310            | -50.64      | 2.21       | -                | 46.83      | Peak     | 74             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2310            | -59.03      | 2.21       | 0.1              | 38.54      | Average  | 54             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2389.092        | -37.74      | 2.21       | -                | 59.73      | Peak     | 74             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2389.794        | -53.56      | 2.21       | 0.1              | 44.01      | Average  | 54             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2390            | -40.28      | 2.21       | -                | 57.19      | Peak     | 74             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2390            | -54.94      | 2.21       | 0.1              | 42.63      | Average  | 54             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2483.5          | -43.99      | 2.21       | -                | 53.48      | Peak     | 74             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2483.5          | -56.18      | 2.21       | 0.1              | 41.39      | Average  | 54             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2483.623        | -37.35      | 2.21       | -                | 60.12      | Peak     | 74             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2483.676        | -54.5       | 2.21       | 0.1              | 43.07      | Average  | 54             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2500            | -50.05      | 2.21       | -                | 47.42      | Peak     | 74             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2500            | -57.73      | 2.21       | 0.1              | 39.84      | Average  | 54             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2310            | -51.45      | 2.21       | -                | 46.02      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2310            | -58.76      | 2.21       | 0.12             | 38.83      | Average  | 54             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2389.911        | -40.63      | 2.21       | -                | 56.84      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2389.794        | -55.02      | 2.21       | 0.12             | 42.57      | Average  | 54             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2390            | -40.34      | 2.21       | -                | 57.13      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2390            | -56.03      | 2.21       | 0.12             | 41.56      | Average  | 54             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2483.5          | -35.52      | 2.21       | -                | 61.95      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2483.5          | -53.46      | 2.21       | 0.12             | 44.13      | Average  | 54             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2483.517        | -35.52      | 2.21       | -                | 61.95      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2483.835        | -52.79      | 2.21       | 0.12             | 44.80      | Average  | 54             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2500            | -50.81      | 2.21       | -                | 46.66      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2500            | -57.53      | 2.21       | 0.12             | 40.06      | Average  | 54             | Pass    |



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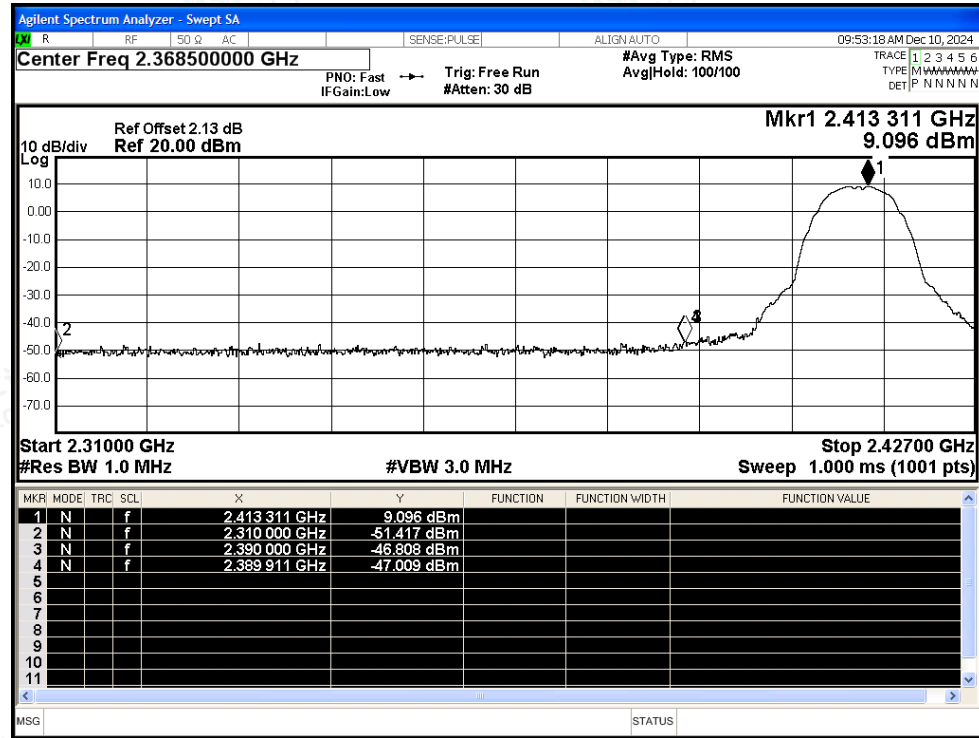
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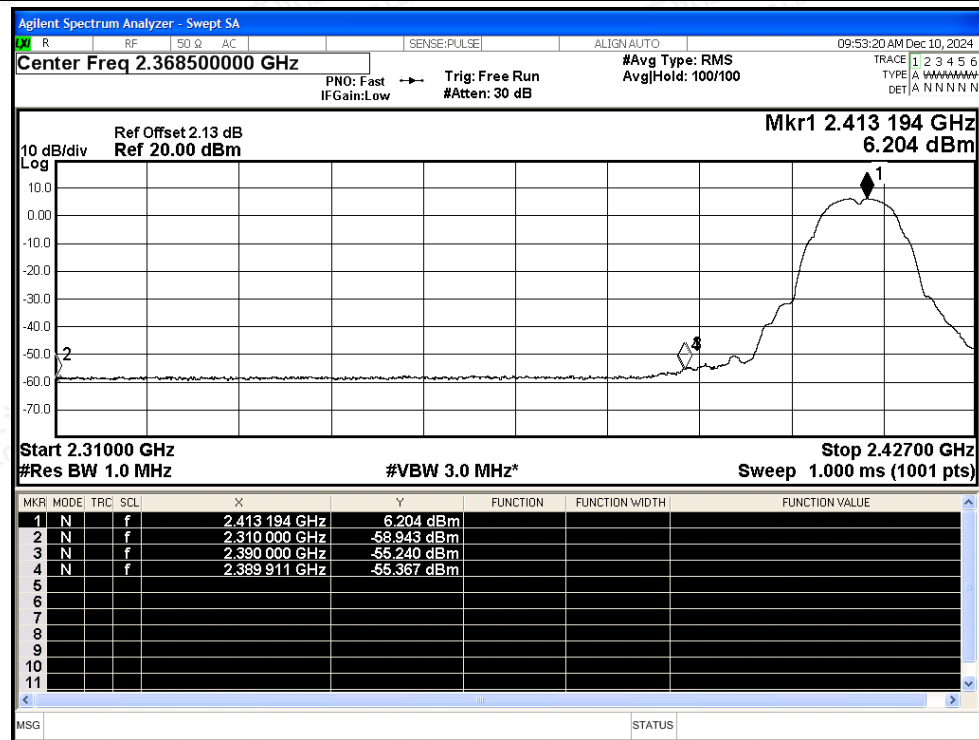


## Test Graphs

## Restrict Band NVNT b 2412MHz Ant1 Peak



## Restrict Band NVNT b 2412MHz Ant1 Average



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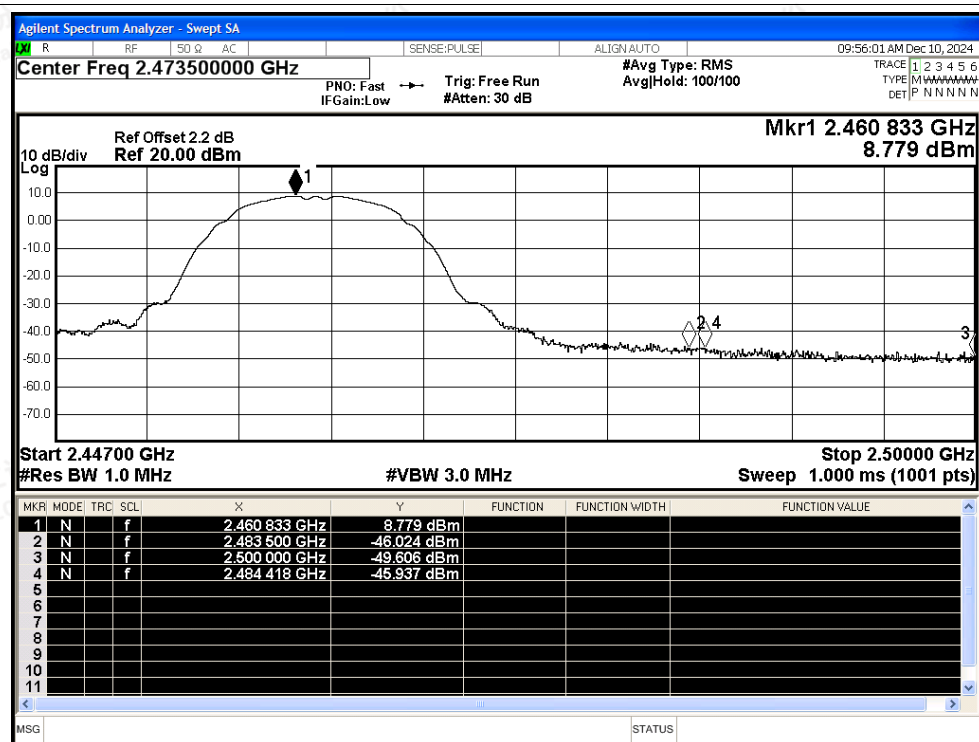
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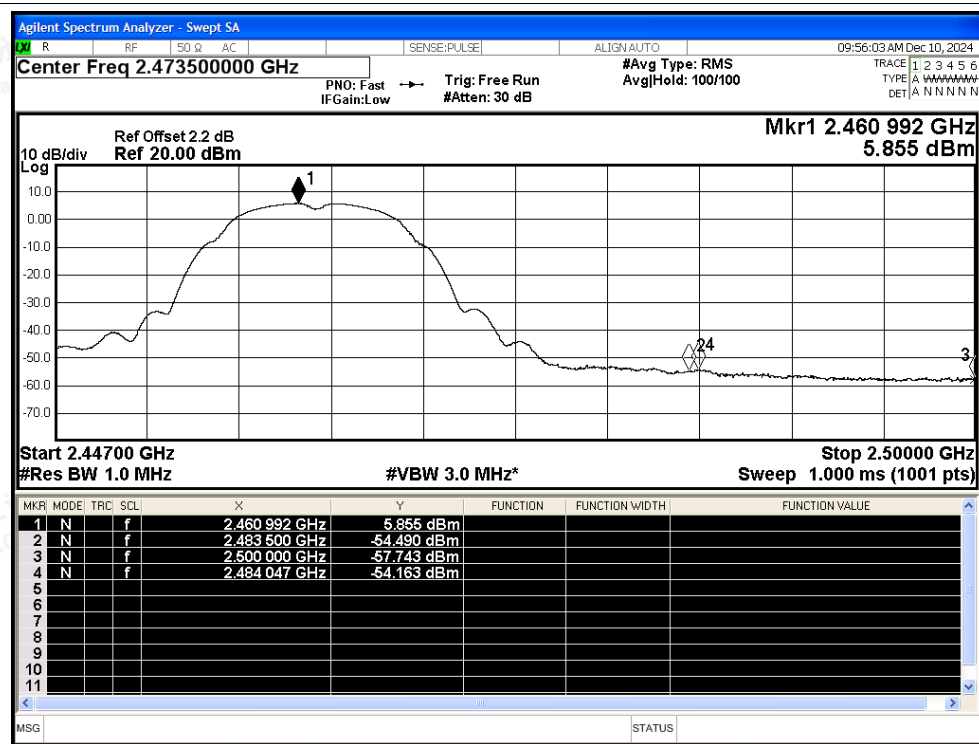




## Restrict Band NVNT b 2462MHz Ant1 Peak



## Restrict Band NVNT b 2462MHz Ant1 Average



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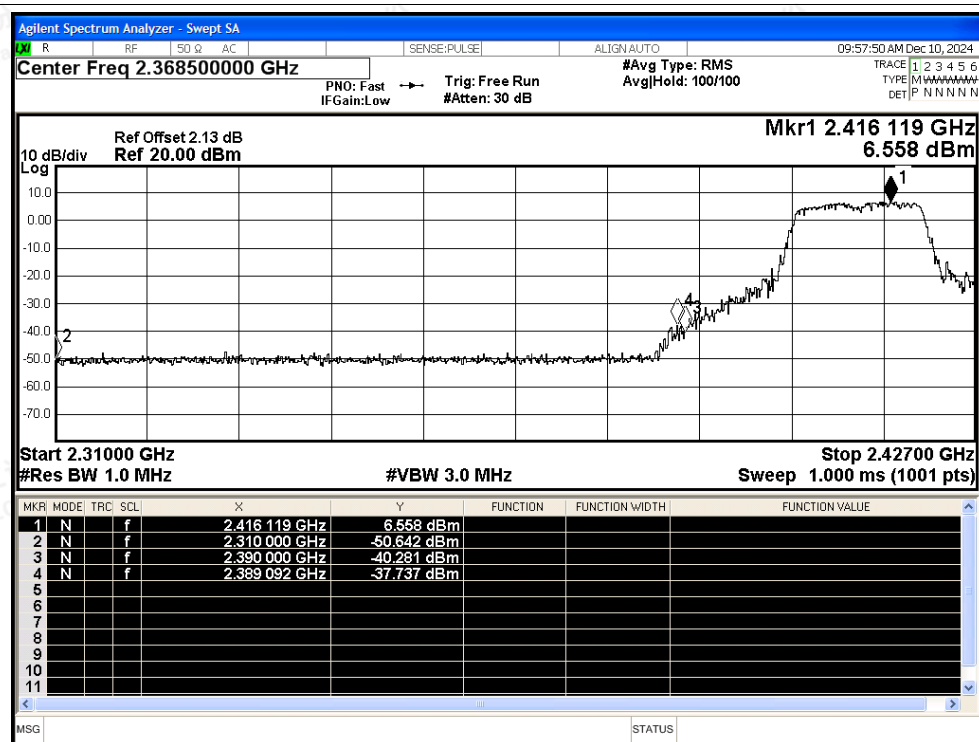
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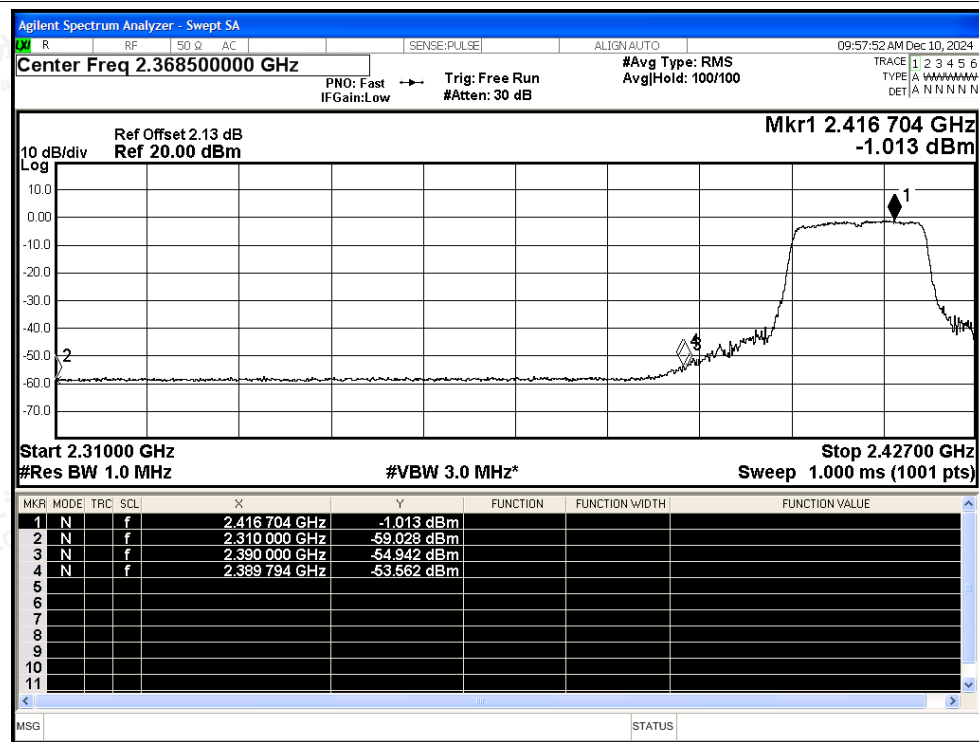




## Restrict Band NVNT g 2412MHz Ant1 Peak



## Restrict Band NVNT g 2412MHz Ant1 Average



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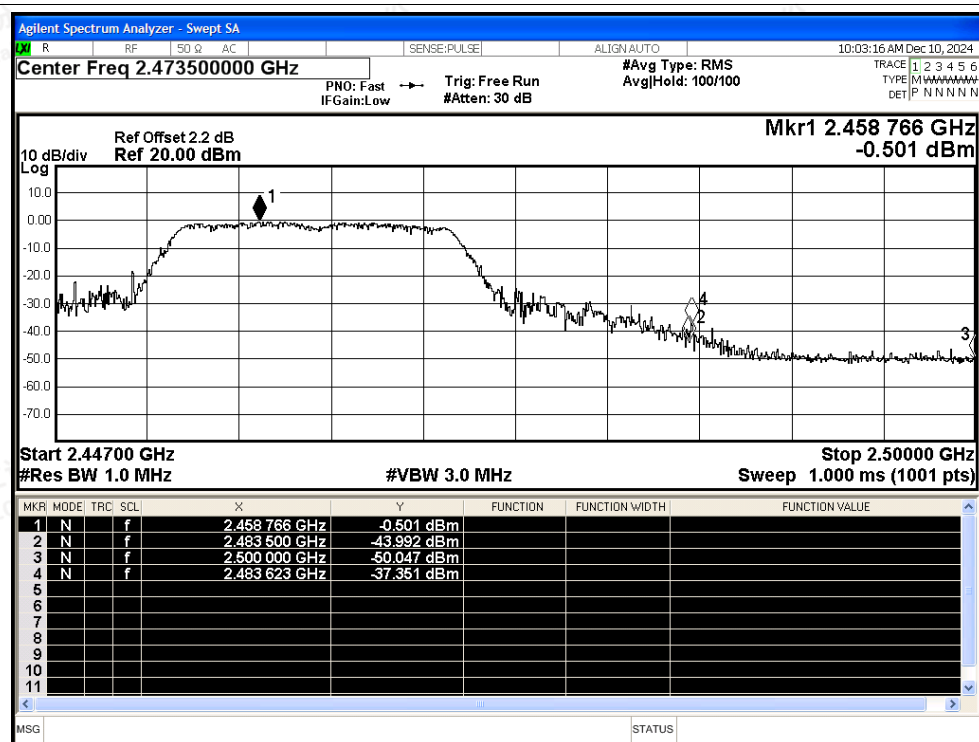
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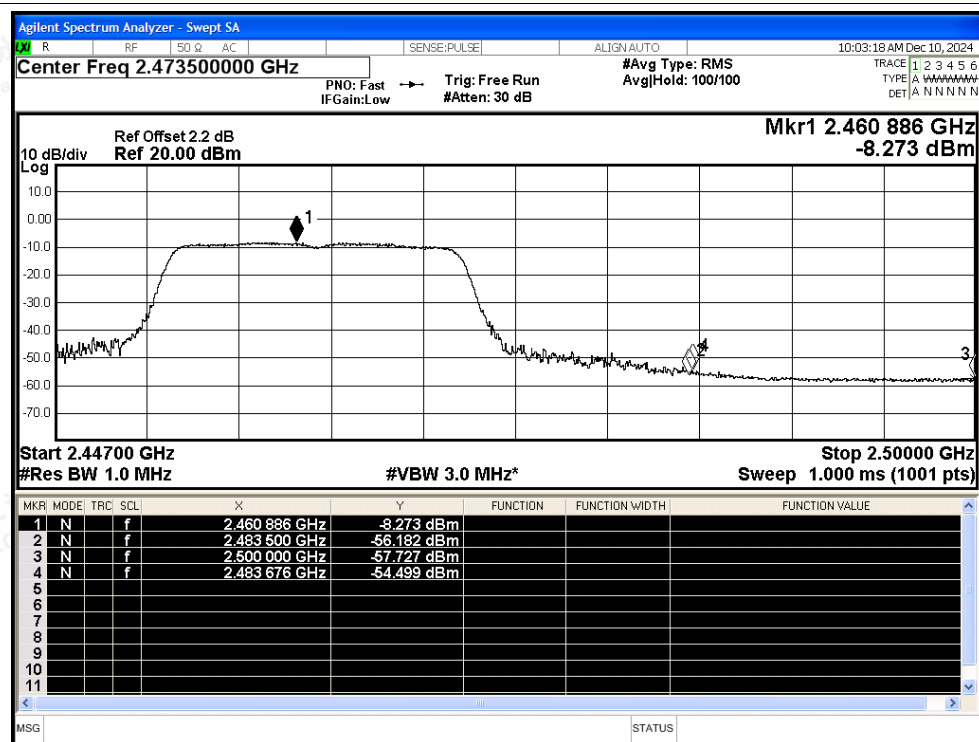
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## Restrict Band NVNT g 2462MHz Ant1 Peak

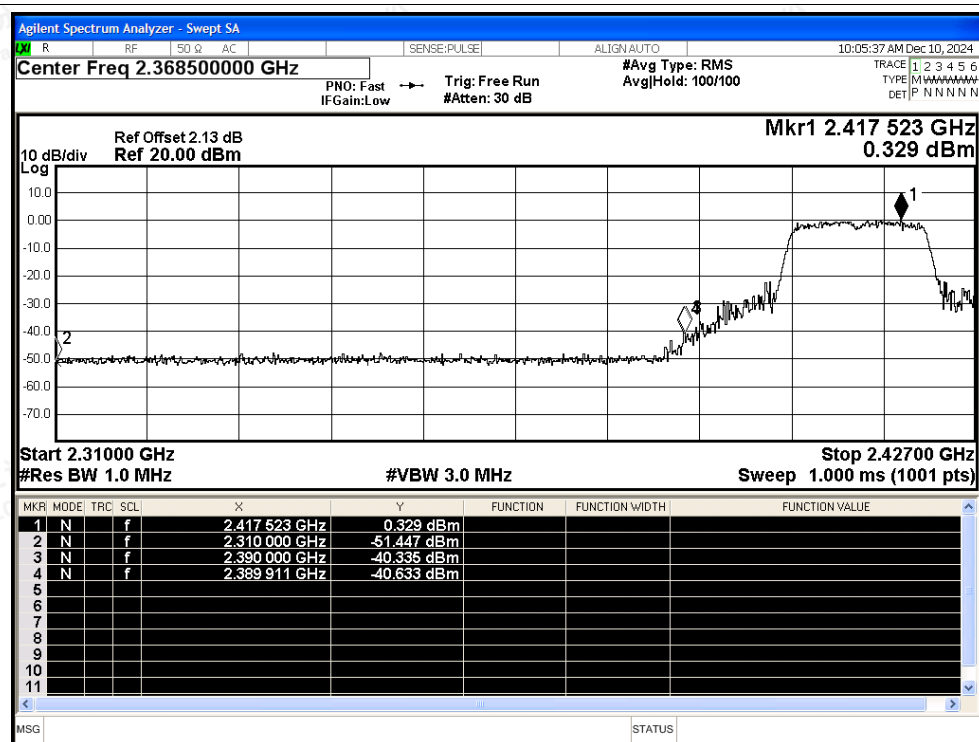


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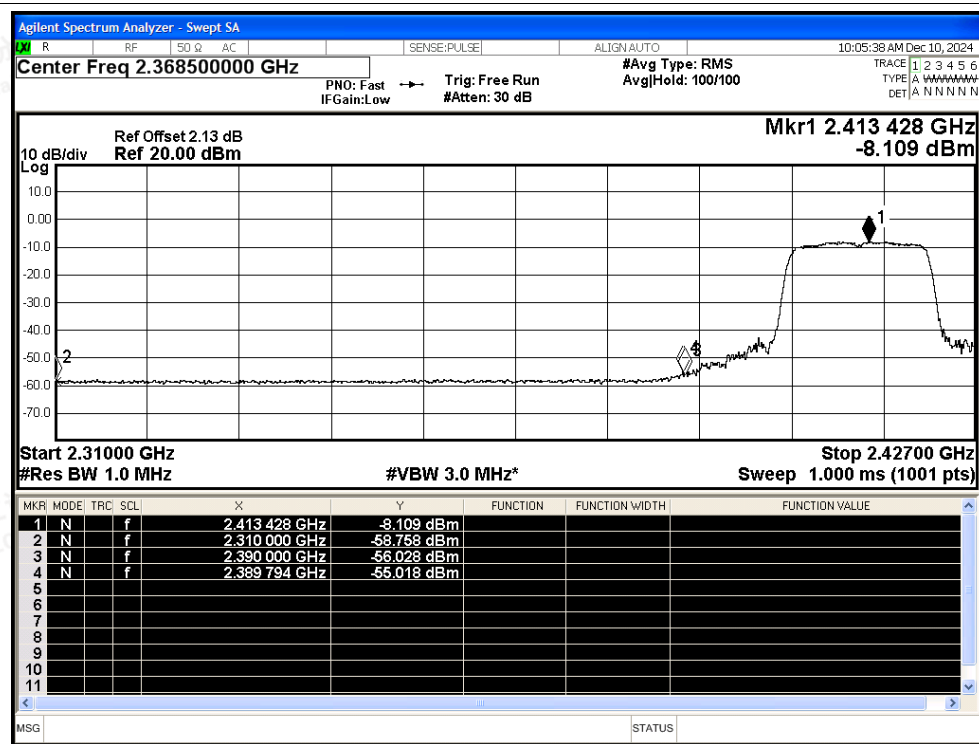




## Restrict Band NVNT n20 2412MHz Ant1 Peak



## Restrict Band NVNT n20 2412MHz Ant1 Average



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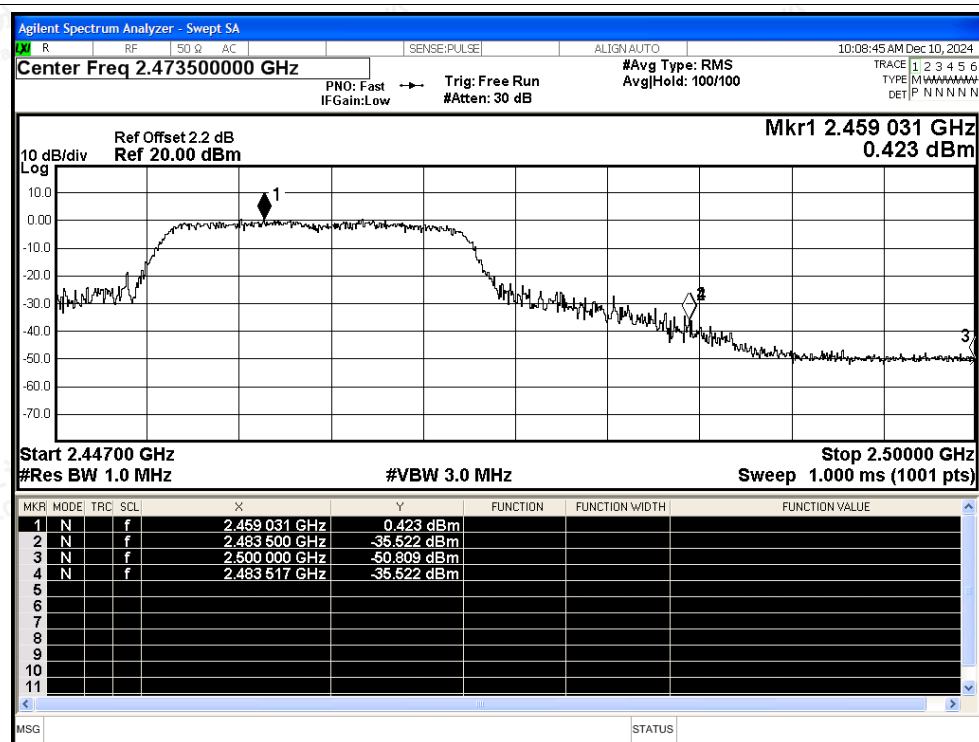
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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## Restrict Band NVNT n20 2462MHz Ant1 Peak



## Restrict Band NVNT n20 2462MHz Ant1 Average

