



## Appendix A

### RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Service Robot

Test Model: R2

#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 23.8° C   |
| Relative Humidity: | 52.1%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Joker Hu  |
| Supervised by:     | Ling Zhu  |



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## A.1 -6dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | b    | 2412            | Ant1    | 8.035                 | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2437            | Ant1    | 7.58                  | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2462            | Ant1    | 7.585                 | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2412            | Ant1    | 16.081                | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2437            | Ant1    | 15.296                | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2462            | Ant1    | 15.032                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 15.646                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 15.683                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 16.021                | $\geq 0.5$                  | Pass    |

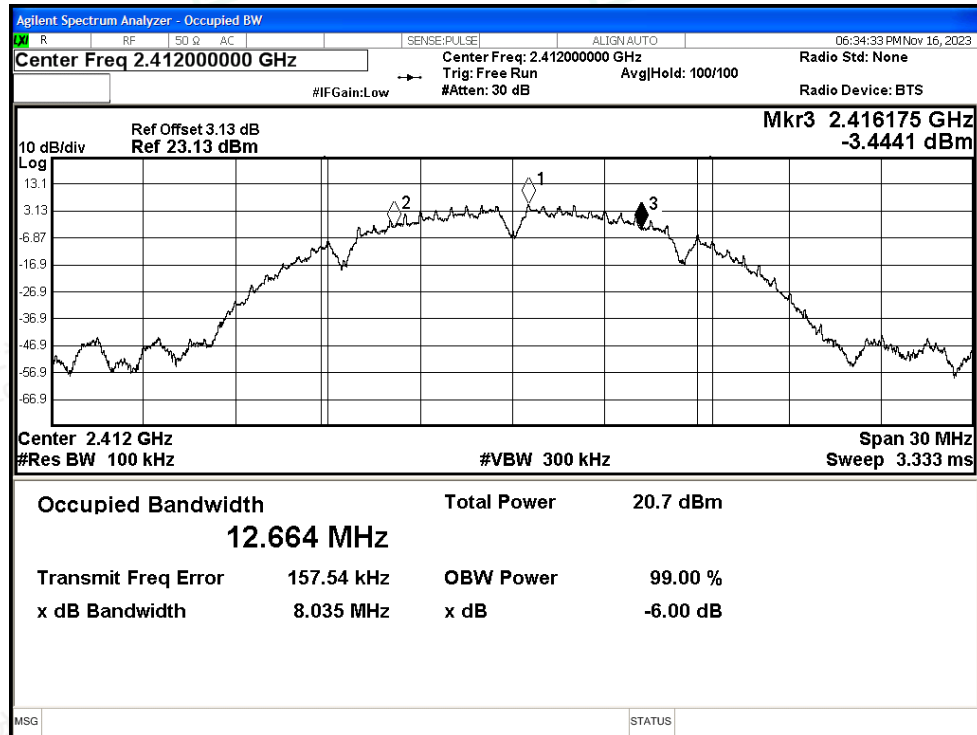


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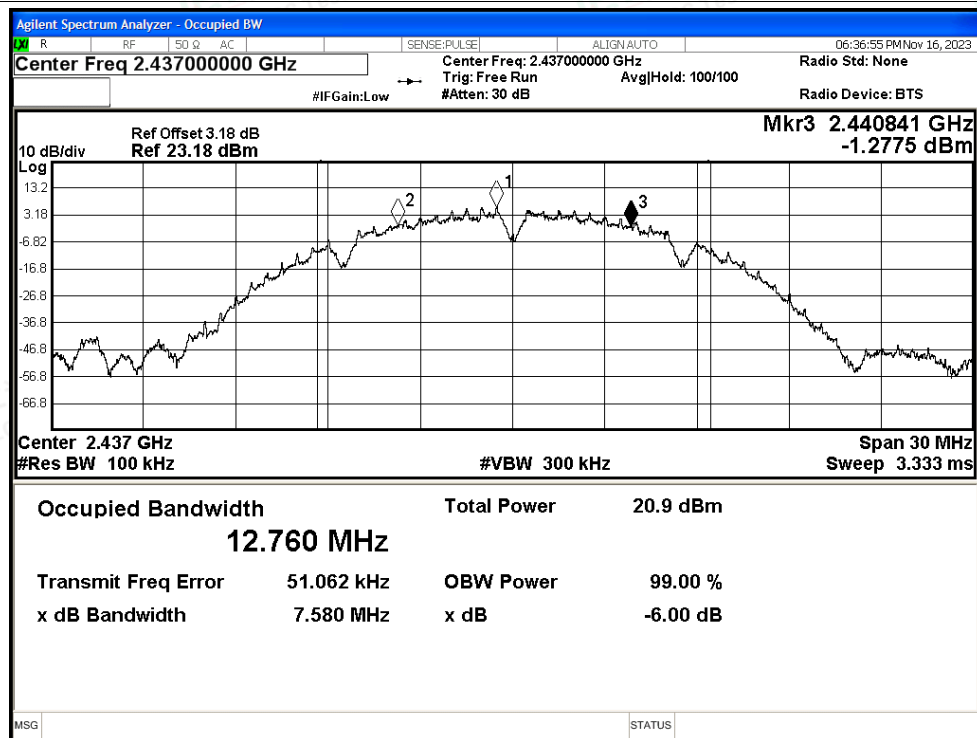


## Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



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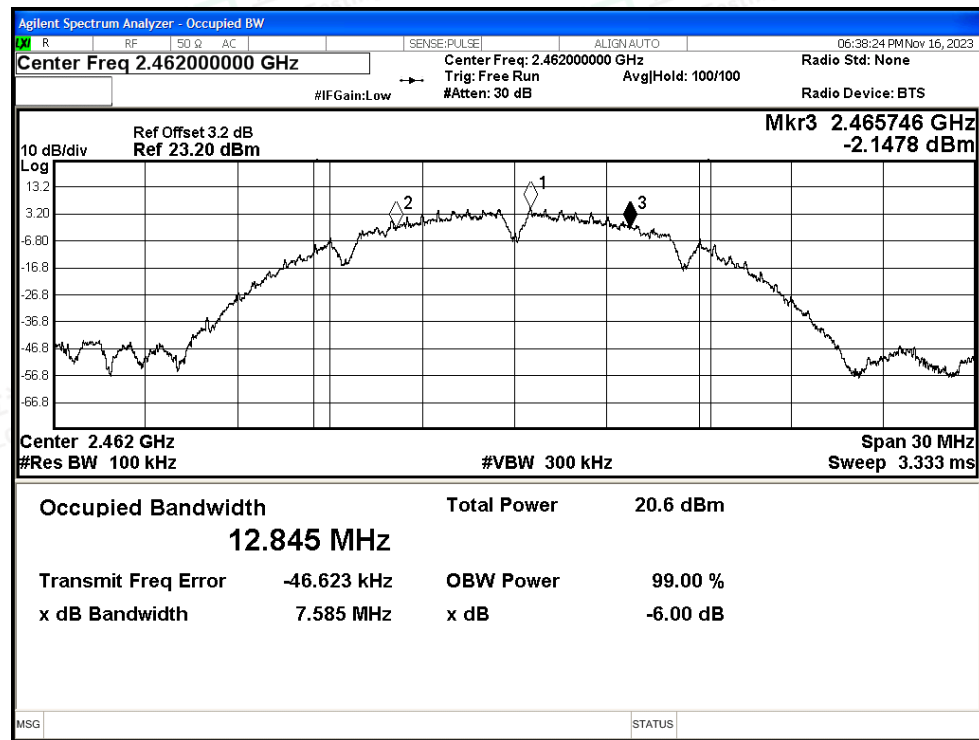
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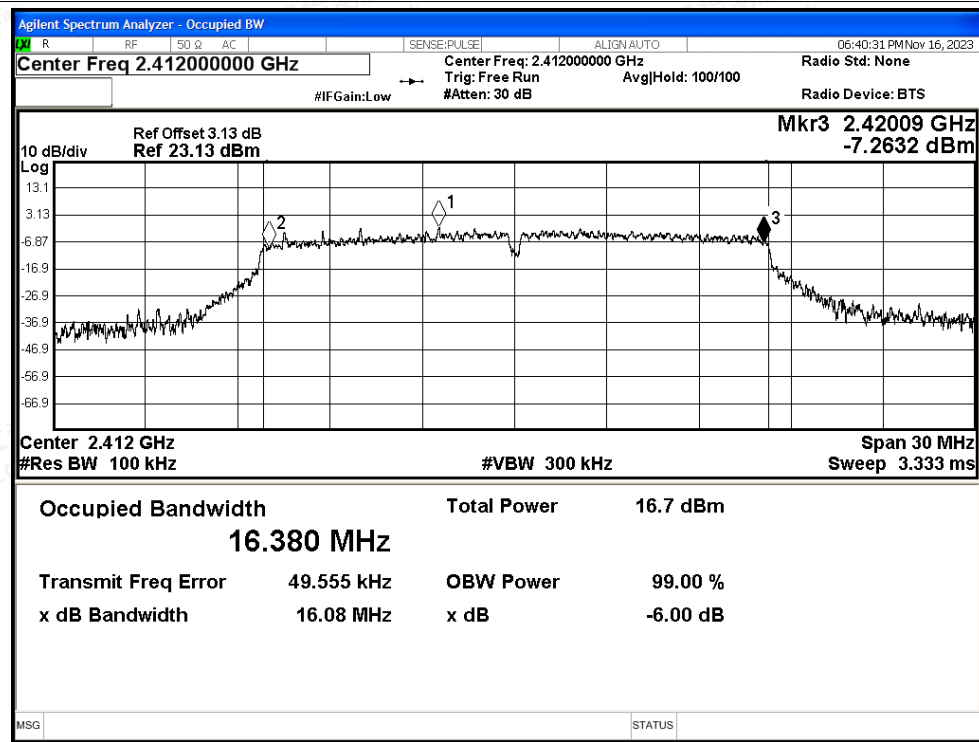
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## -6dB Bandwidth NVNT b 2462MHz Ant1



## -6dB Bandwidth NVNT g 2412MHz Ant1



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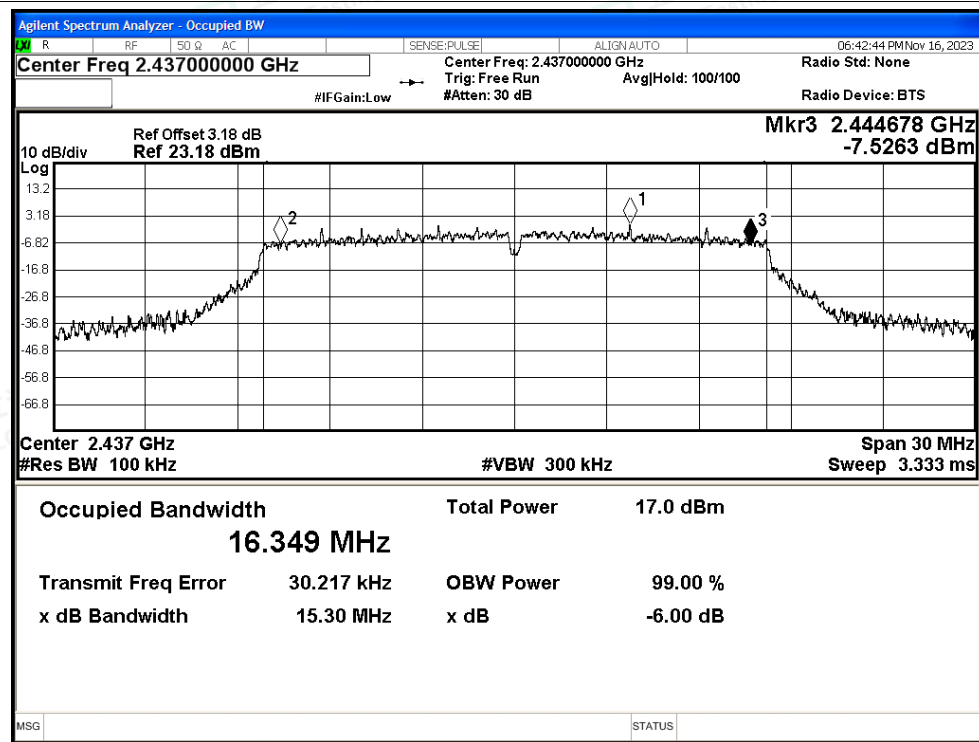
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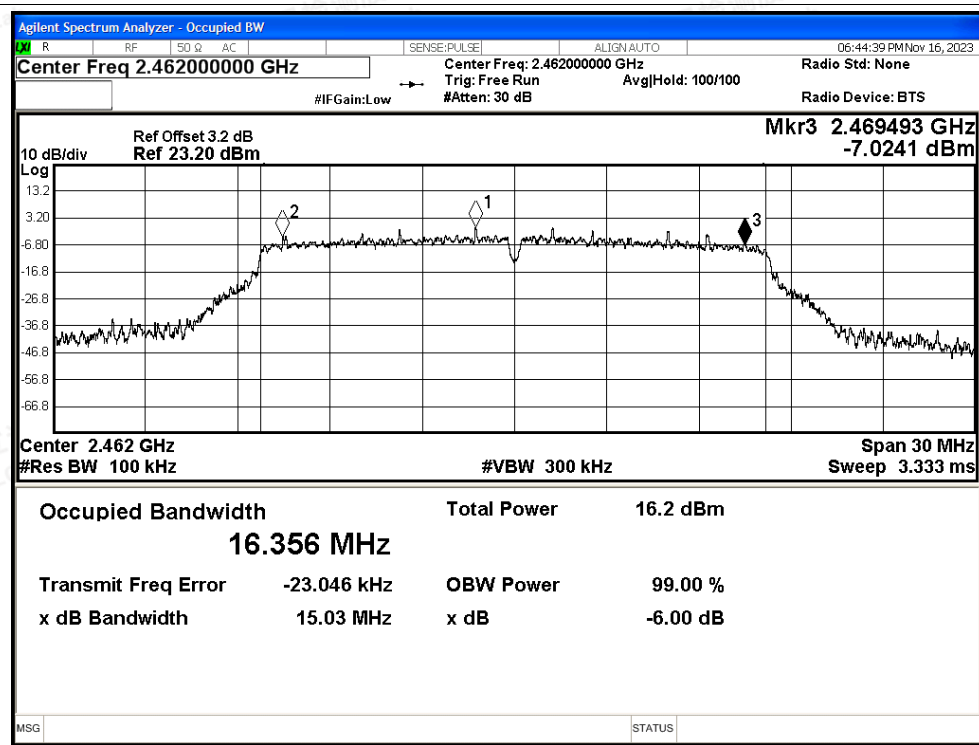
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## -6dB Bandwidth NVNT g 2437MHz Ant1



## -6dB Bandwidth NVNT g 2462MHz Ant1



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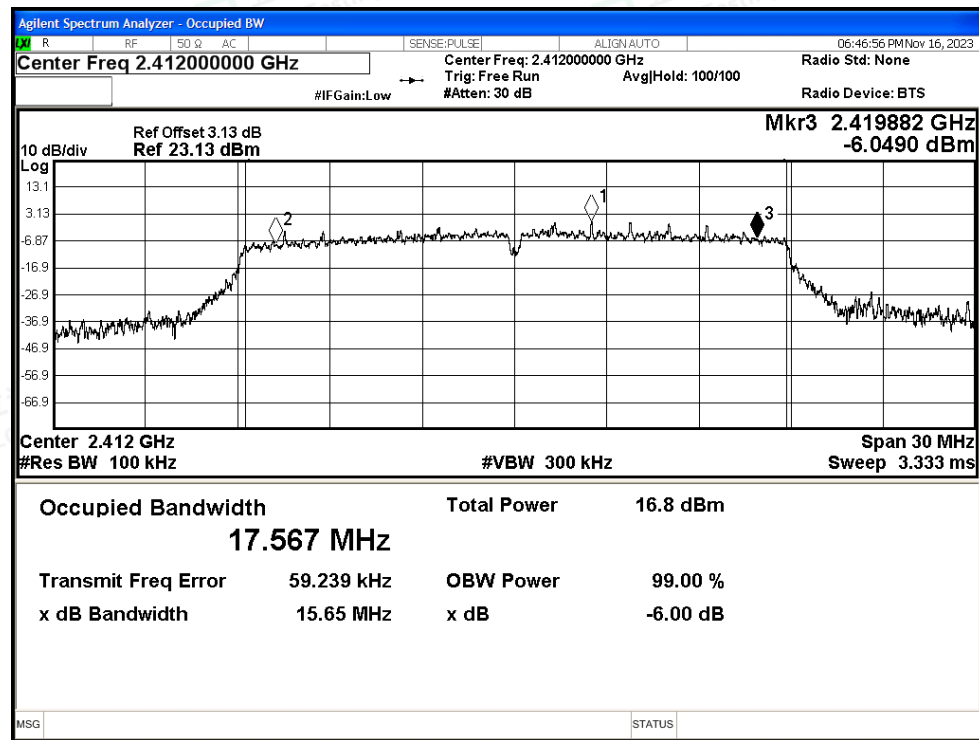
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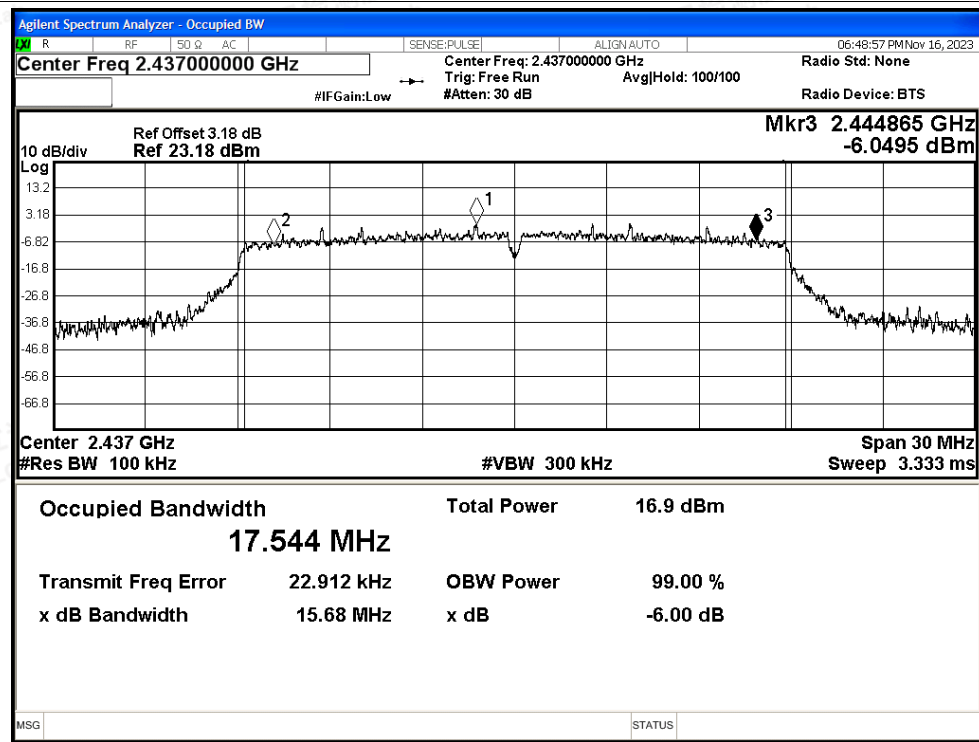
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## -6dB Bandwidth NVNT n20 2412MHz Ant1



## -6dB Bandwidth NVNT n20 2437MHz Ant1

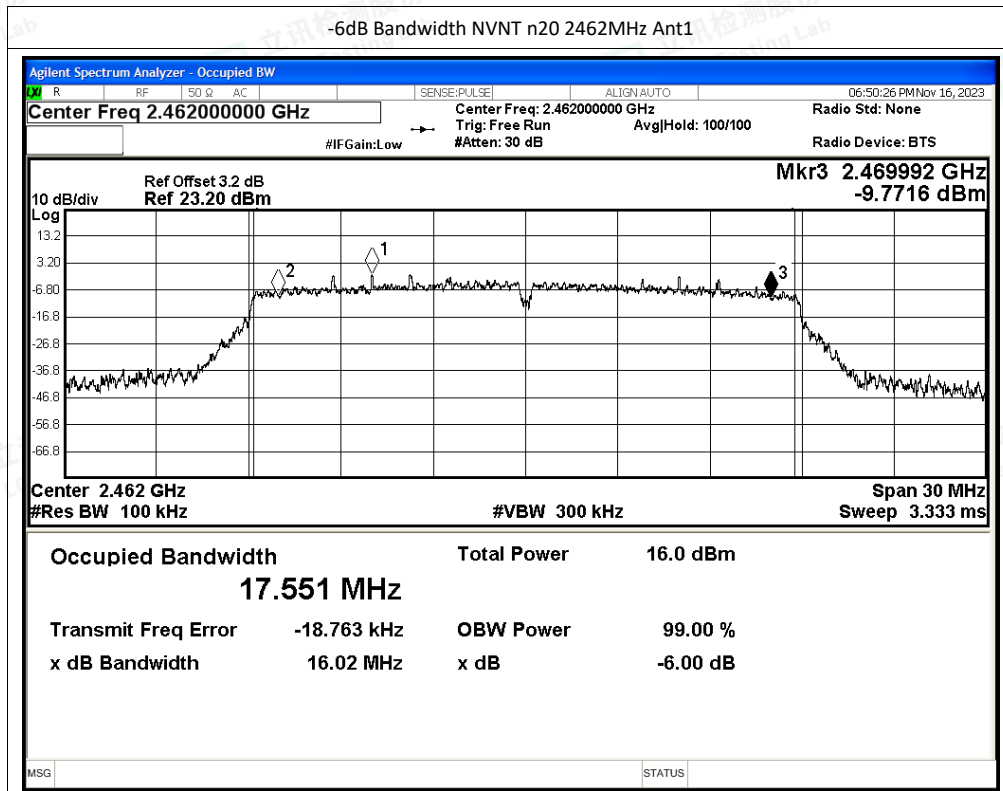


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## A.2 Maximum conducted output power

### Test Result Peak

| TestMode  | Antenna | Freq (MHz) | Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|------------|-----------------|----------------------|---------|
| 11B       | Ant1    | 2412       | 15.49           | ≤30.00               | PASS    |
|           |         | 2437       | 16.1            | ≤30.00               | PASS    |
|           |         | 2462       | 15.84           | ≤30.00               | PASS    |
| 11G       | Ant1    | 2412       | 15.52           | ≤30.00               | PASS    |
|           |         | 2437       | 15.76           | ≤30.00               | PASS    |
|           |         | 2462       | 14.94           | ≤30.00               | PASS    |
| 11N20SISO | Ant1    | 2412       | 15.42           | ≤30.00               | PASS    |
|           |         | 2437       | 15.61           | ≤30.00               | PASS    |
|           |         | 2462       | 14.74           | ≤30.00               | PASS    |



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### A.3 Maximum power spectral density

#### Test Result

| TestMode  | Antenna | Freq (MHz) | Result<br>[dBm/3kHz] | Limit<br>[dBm/3kHz] | Verdict |
|-----------|---------|------------|----------------------|---------------------|---------|
| 11B       | Ant1    | 2412       | -7.39                | ≤8.00               | PASS    |
|           |         | 2437       | -6.47                | ≤8.00               | PASS    |
|           |         | 2462       | -8.54                | ≤8.00               | PASS    |
| 11G       | Ant1    | 2412       | -13.64               | ≤8.00               | PASS    |
|           |         | 2437       | -12.95               | ≤8.00               | PASS    |
|           |         | 2462       | -14.17               | ≤8.00               | PASS    |
| 11N20SISO | Ant1    | 2412       | -14.69               | ≤8.00               | PASS    |
|           |         | 2437       | -14.23               | ≤8.00               | PASS    |
|           |         | 2462       | -15.28               | ≤8.00               | PASS    |

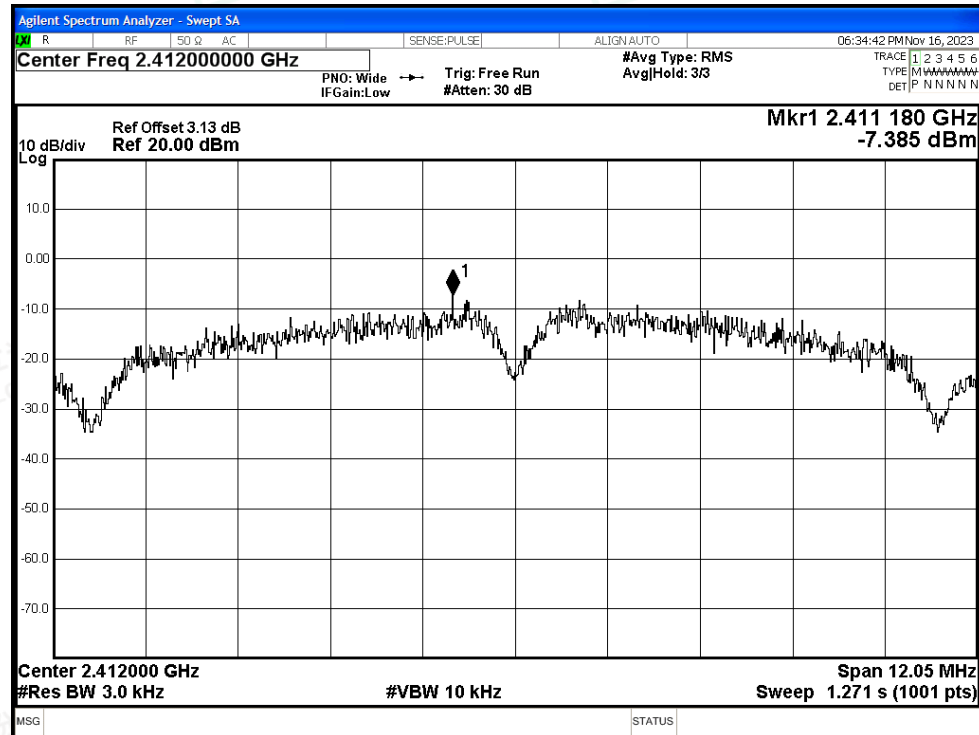


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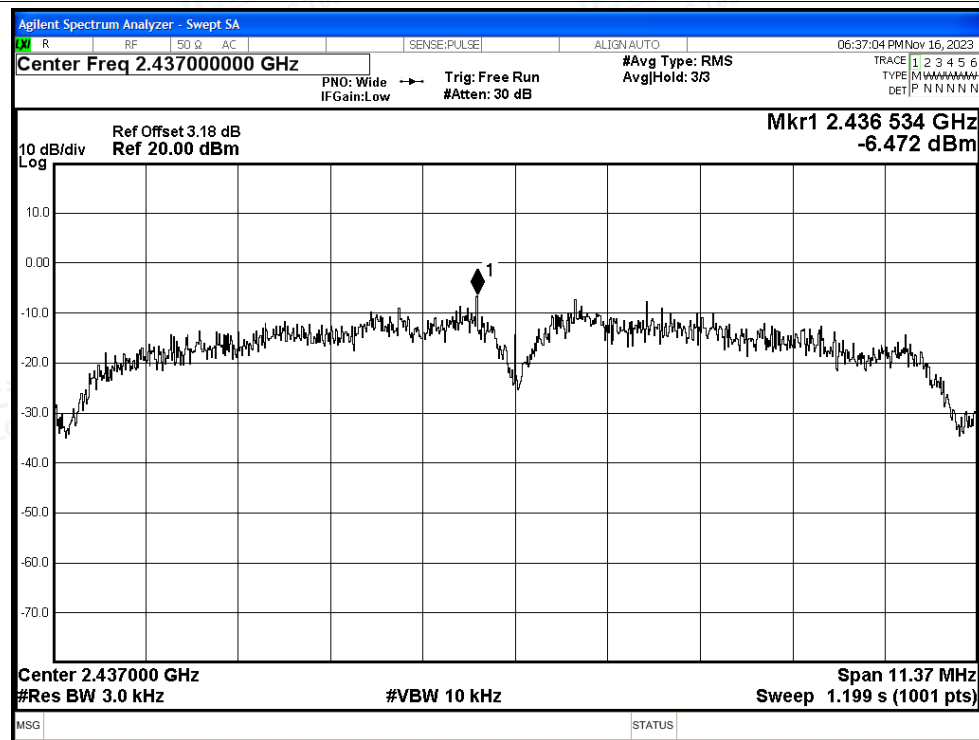


## Test Graphs

## PSD NVNT b 2412MHz Ant1



## PSD NVNT b 2437MHz Ant1

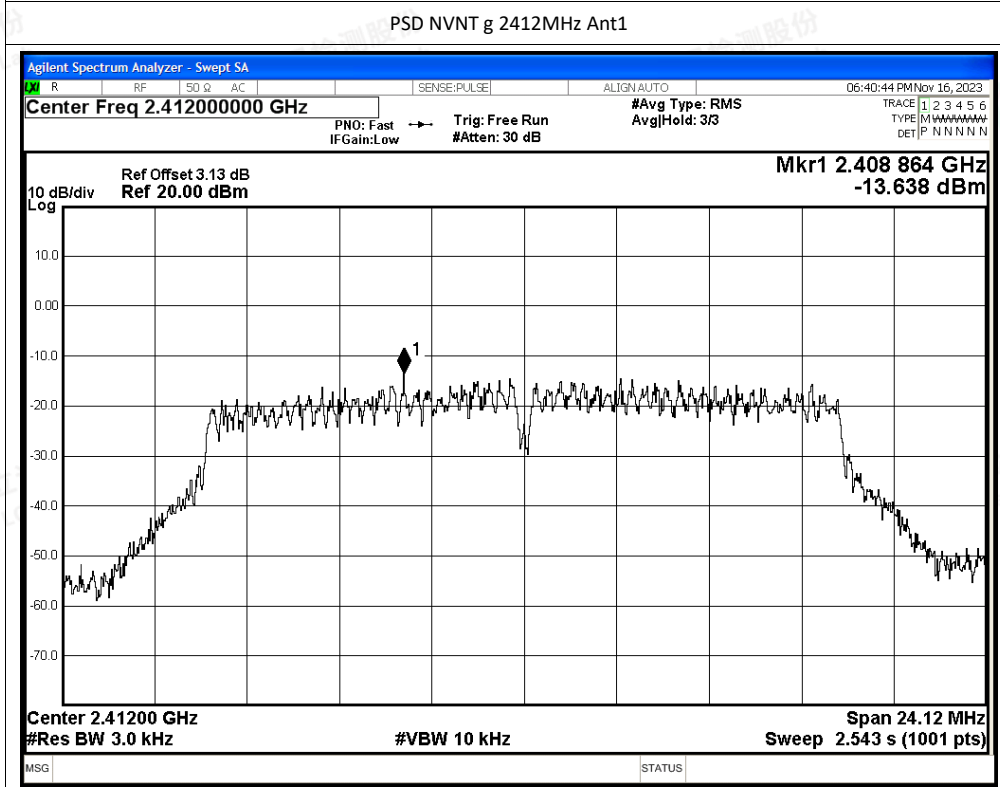
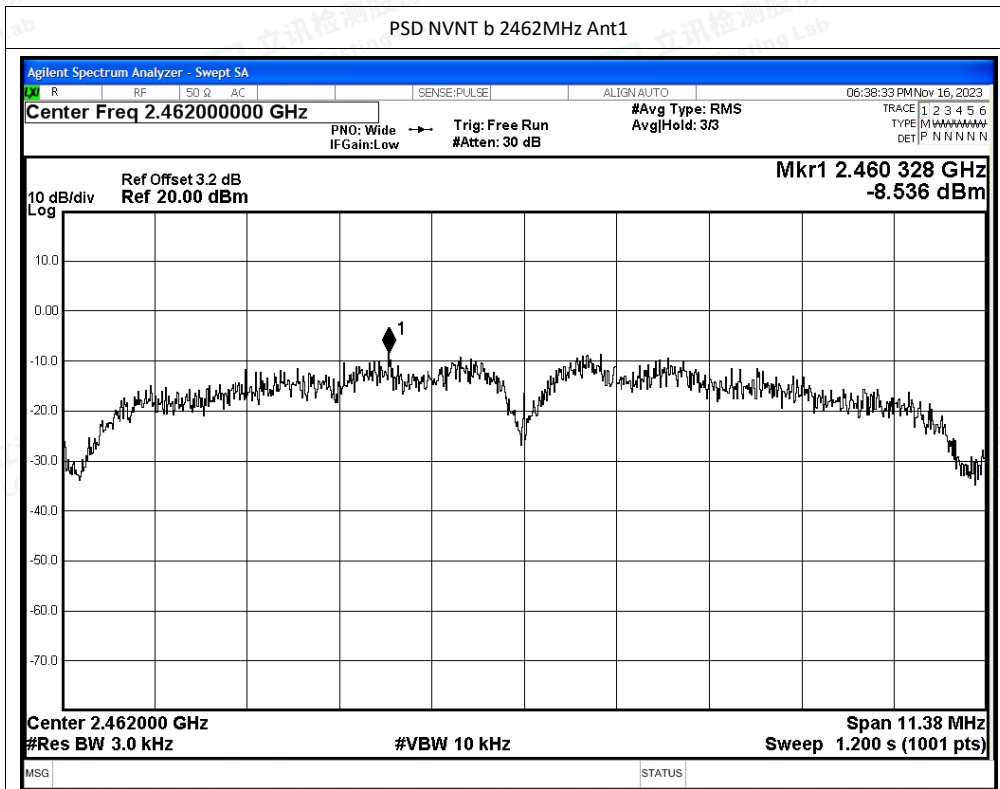


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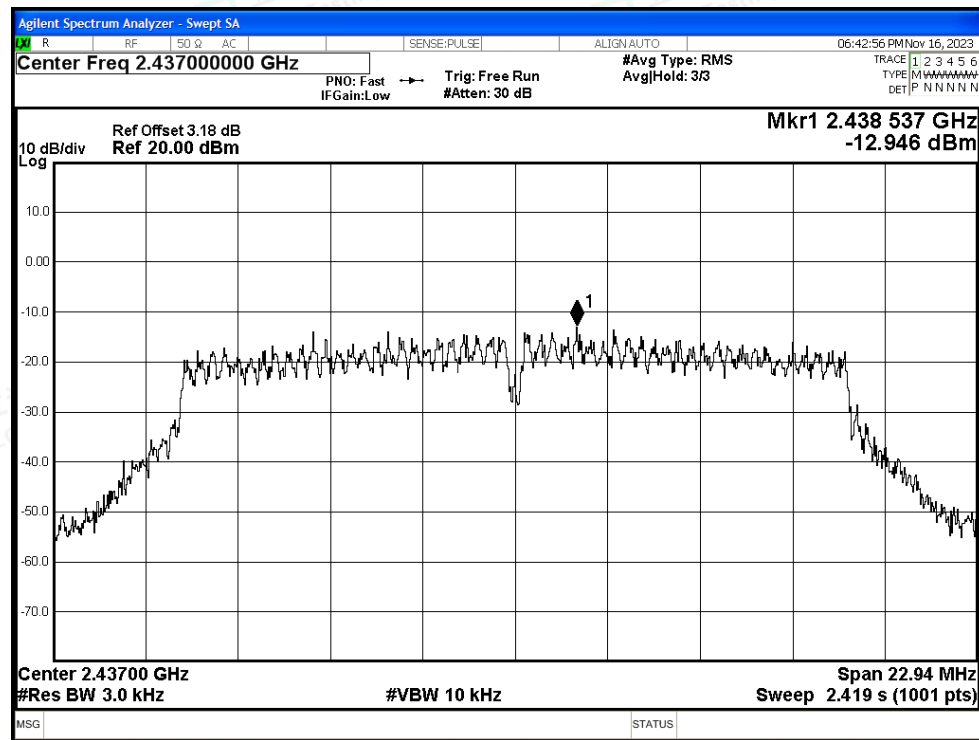
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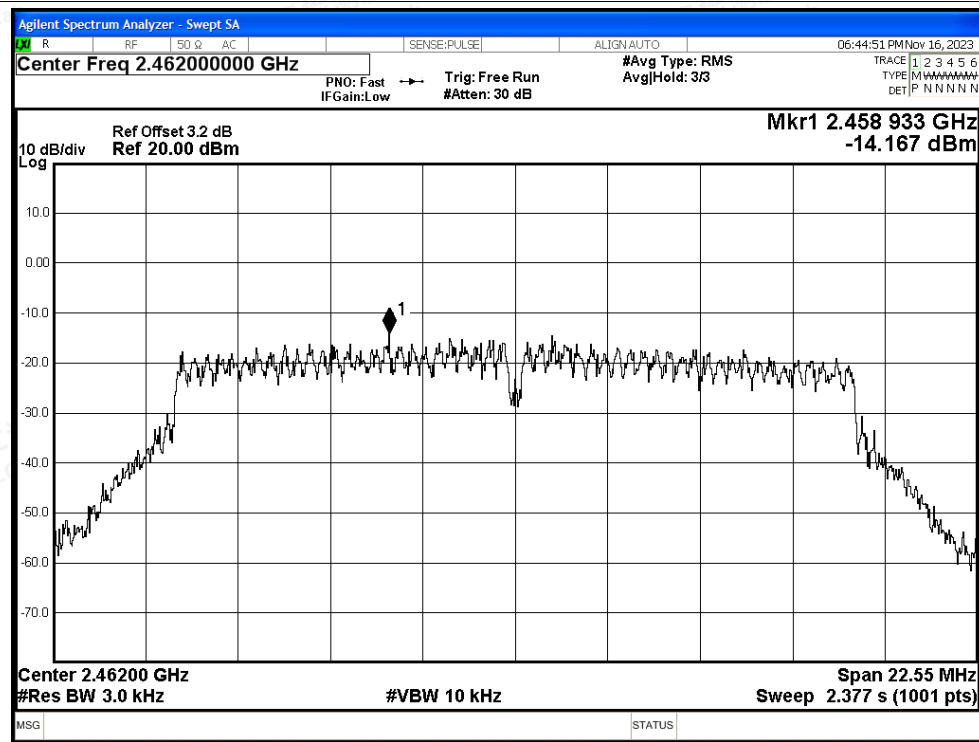
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PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1

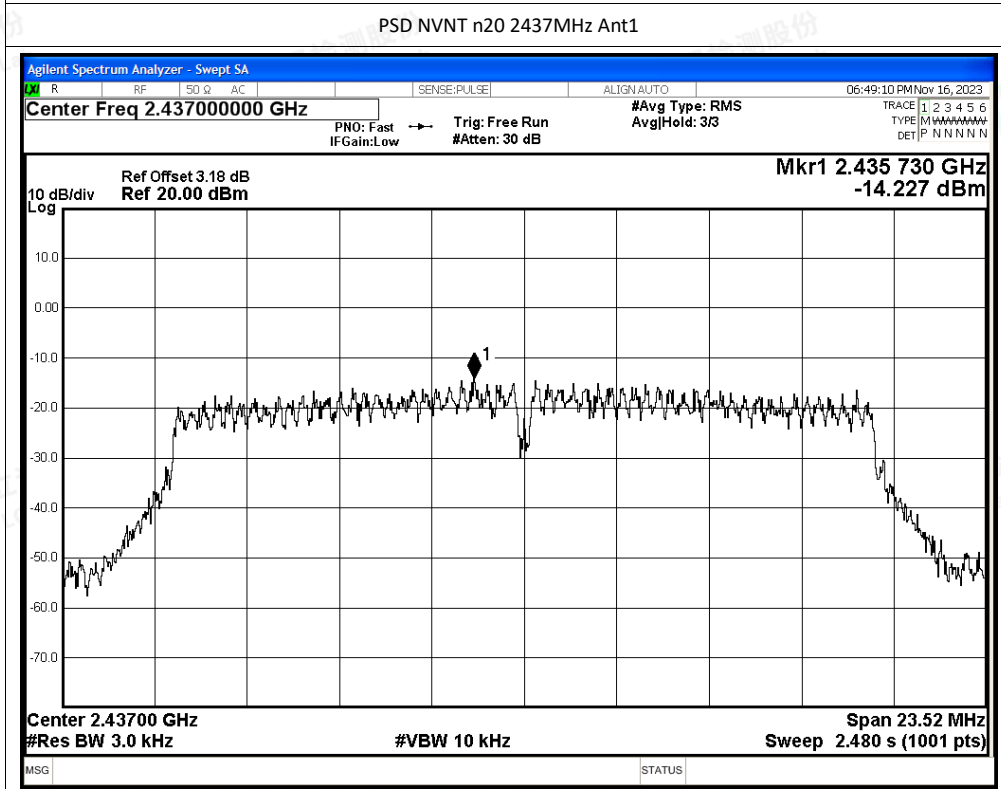
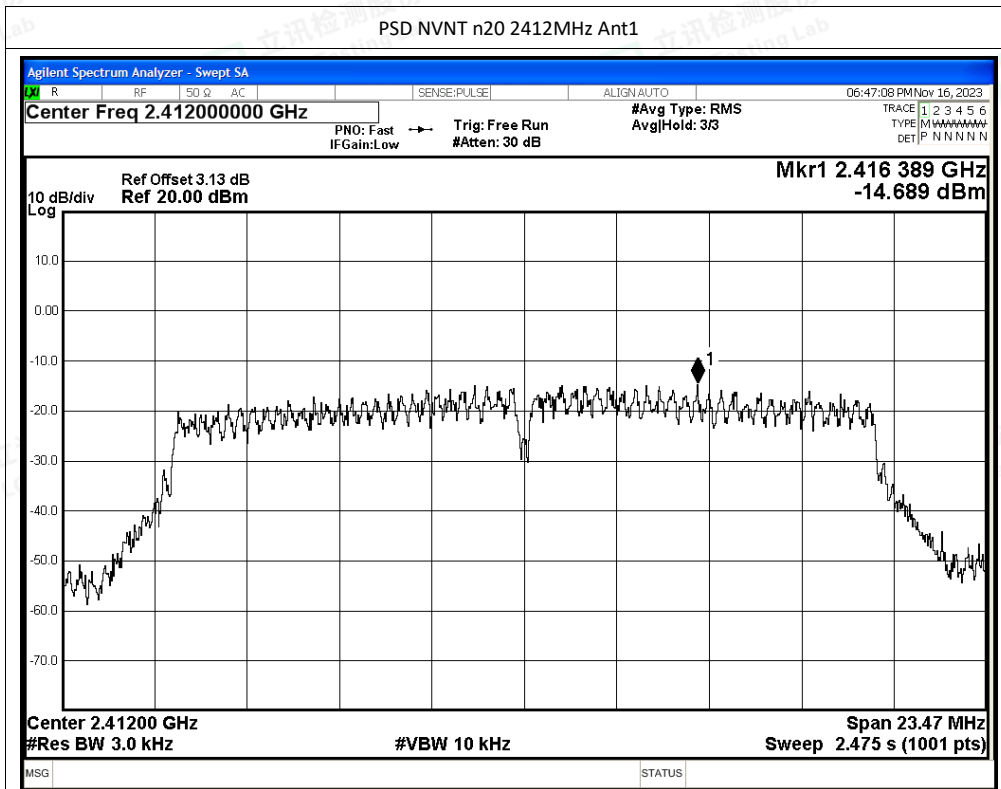


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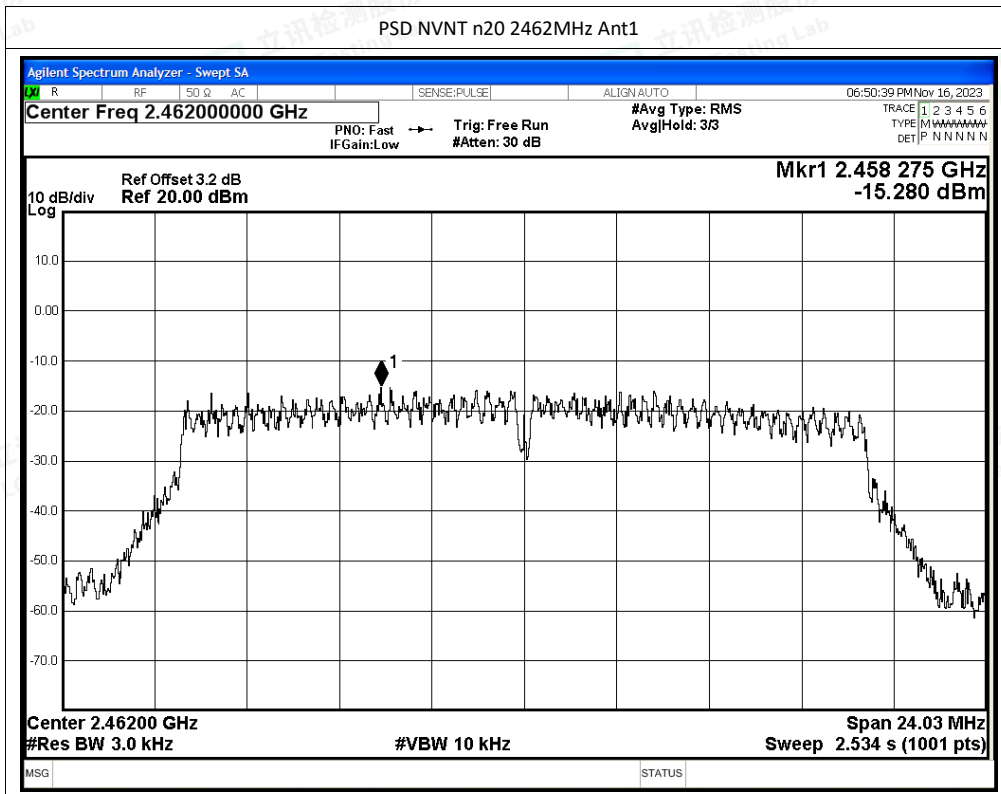


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## A.4 Band edge measurements

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -50.42          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -60.35          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -32.71          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -51.76          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -33.44          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -50.19          | -20         | Pass    |

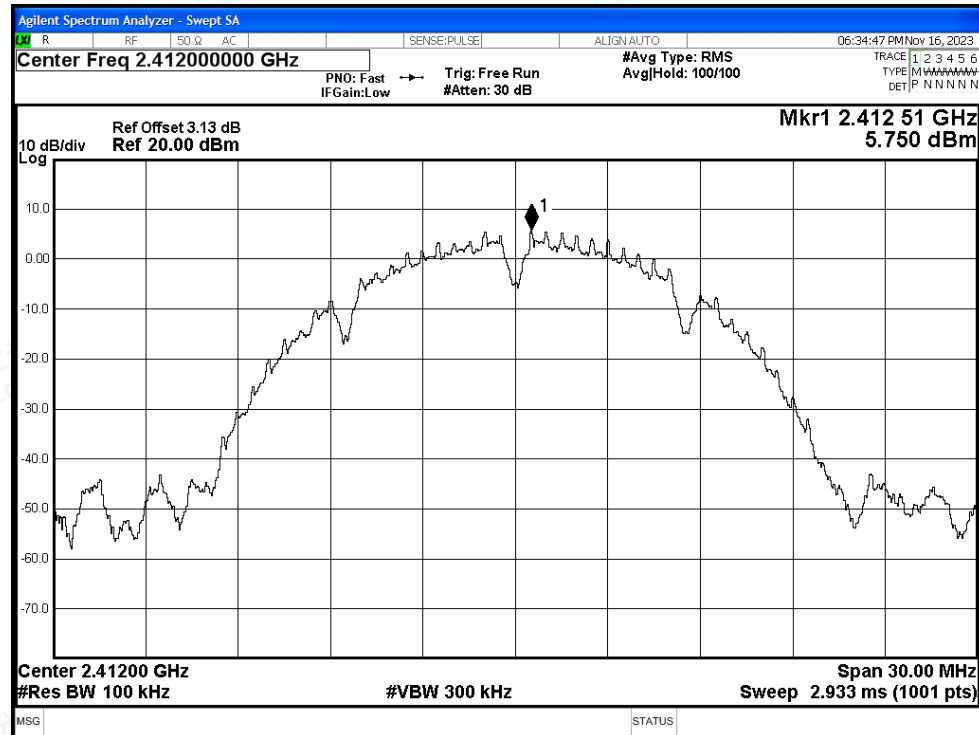


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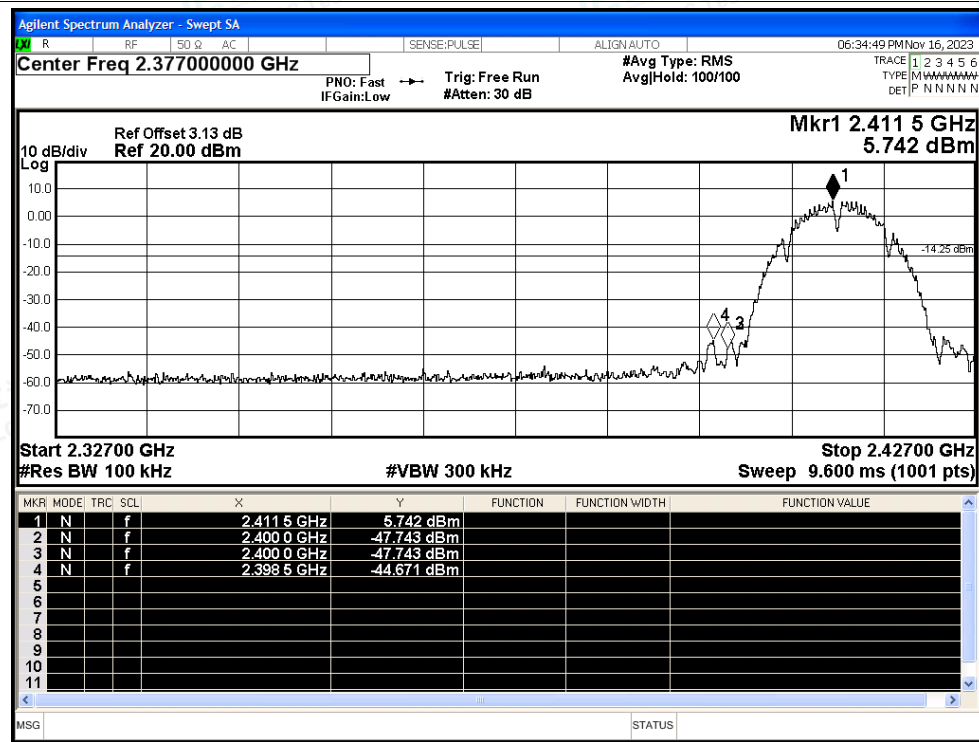


## Test Graphs

## Band Edge NVNT b 2412MHz Ant1 Ref



## Band Edge NVNT b 2412MHz Ant1 Emission



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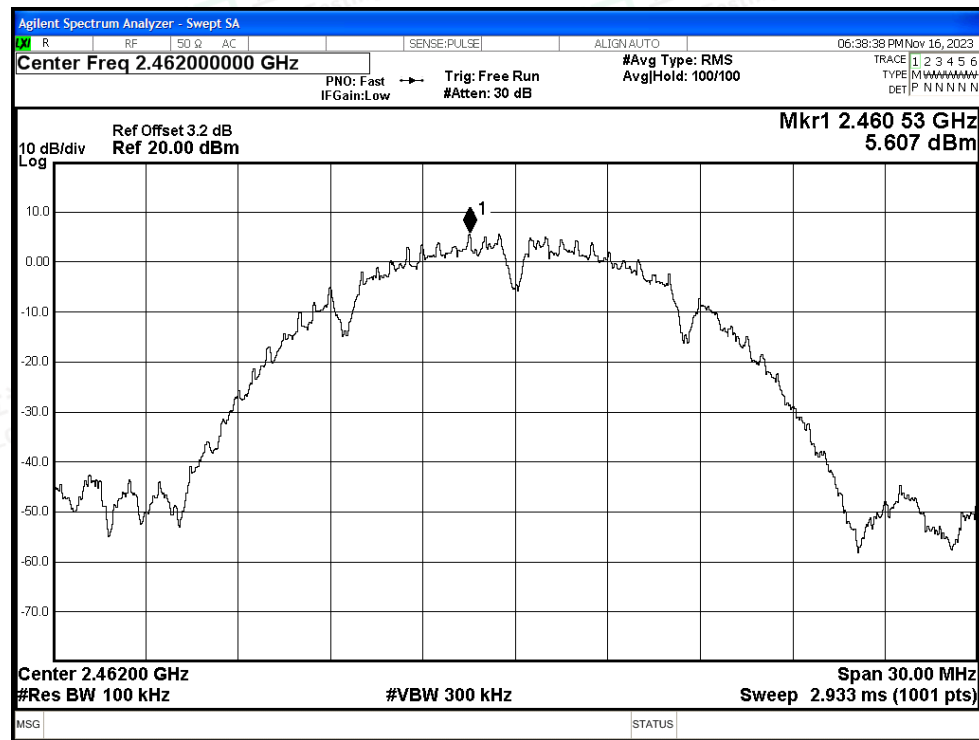
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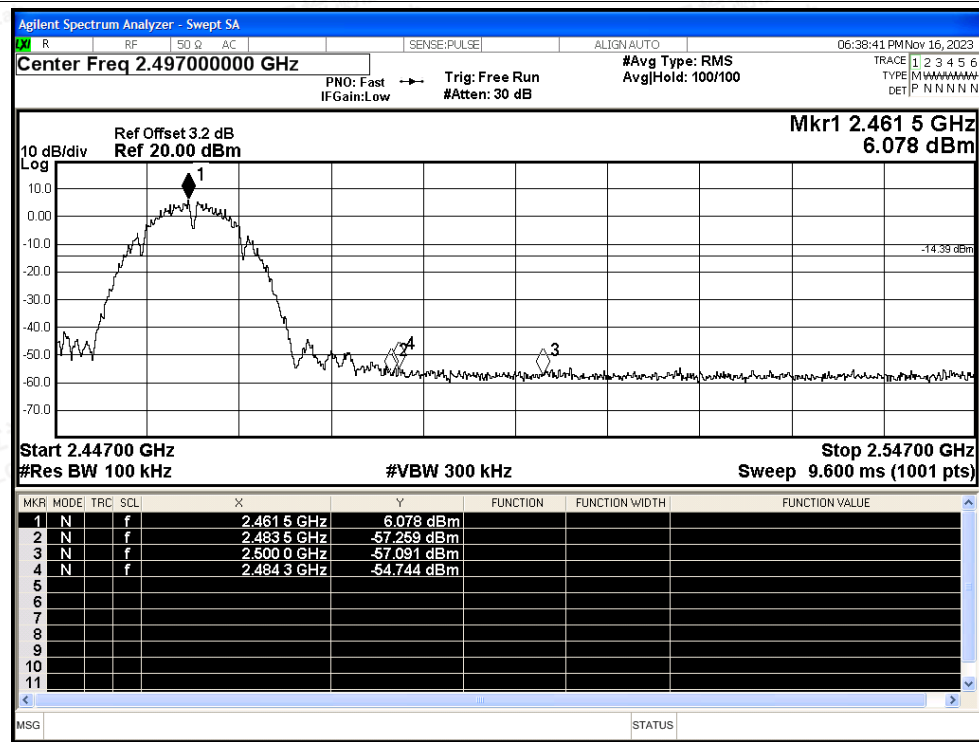
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## Band Edge NVNT b 2462MHz Ant1 Ref



## Band Edge NVNT b 2462MHz Ant1 Emission



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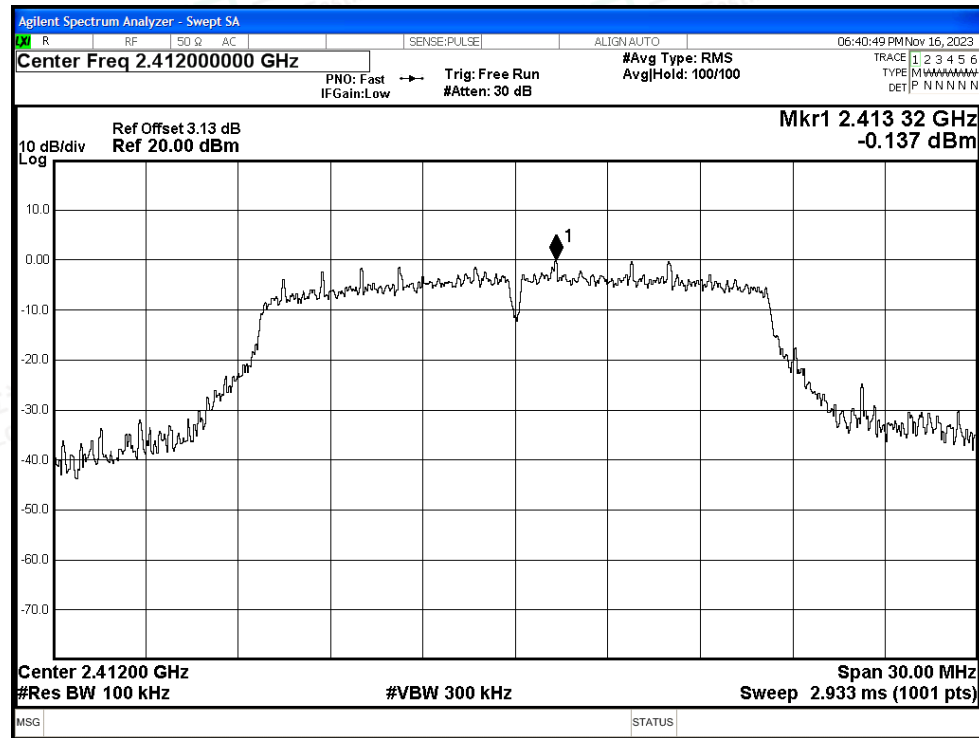
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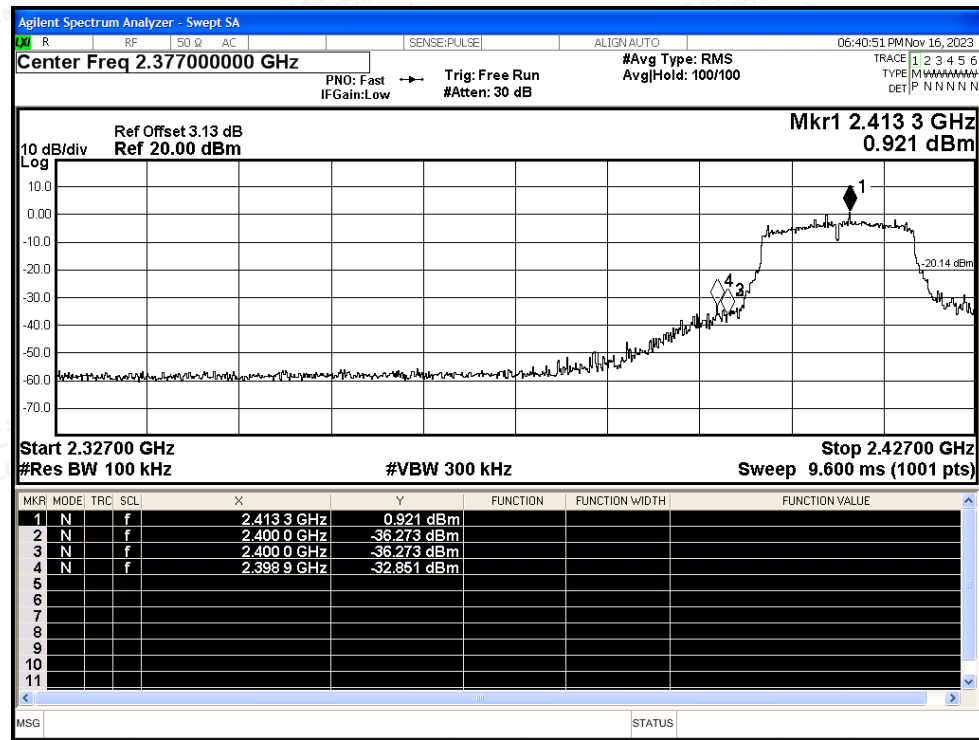
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## Band Edge NVNT g 2412MHz Ant1 Ref



## Band Edge NVNT g 2412MHz Ant1 Emission



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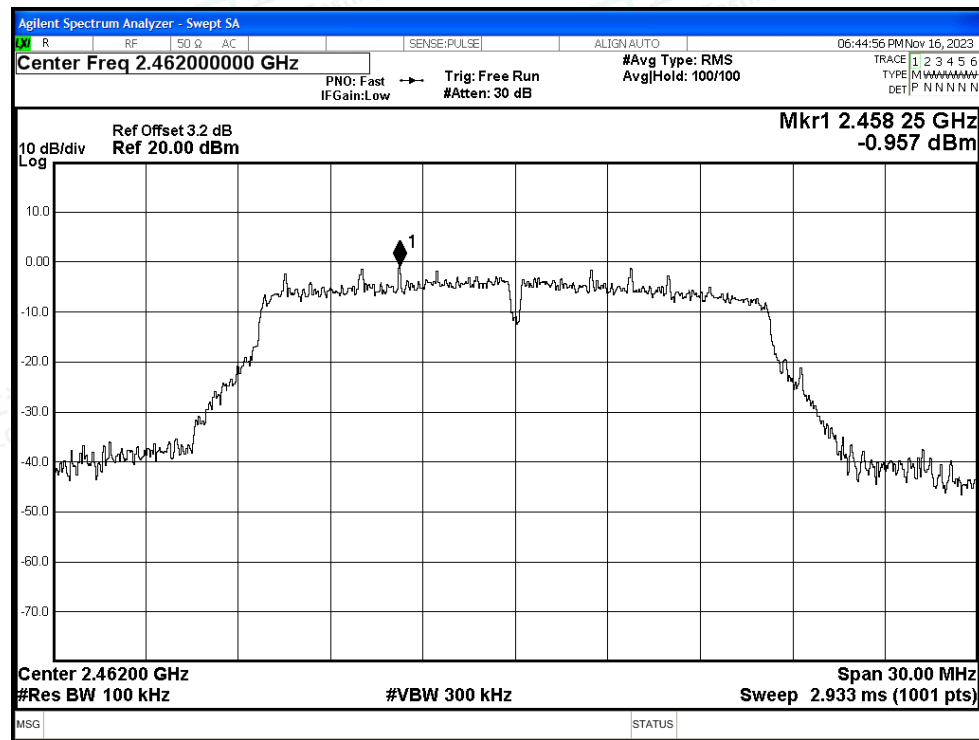
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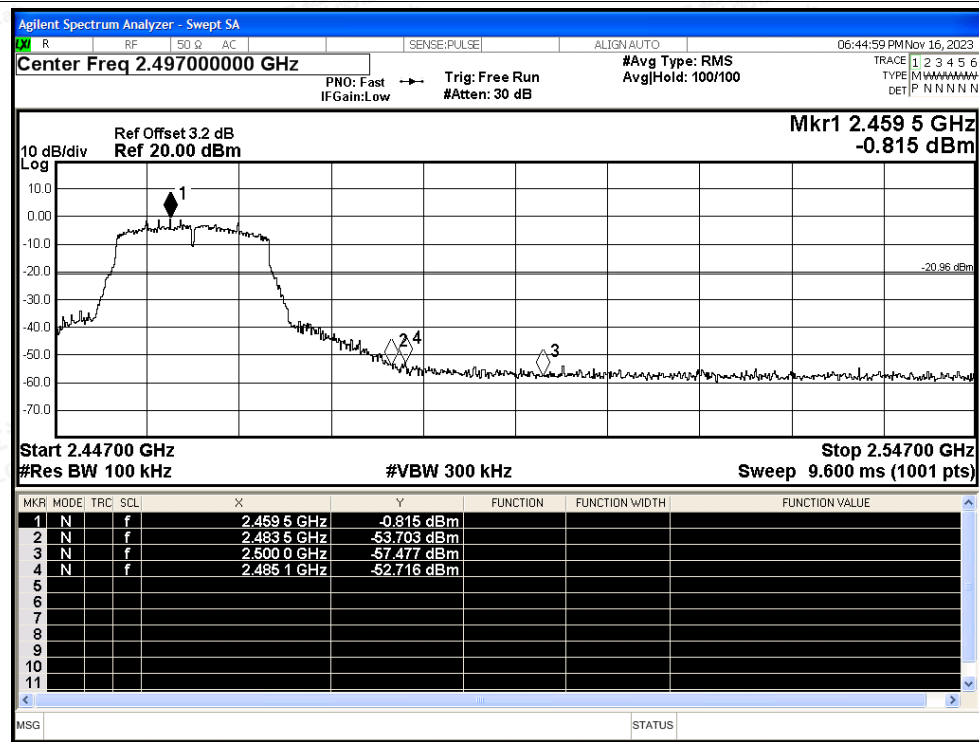
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## Band Edge NVNT g 2462MHz Ant1 Ref



## Band Edge NVNT g 2462MHz Ant1 Emission

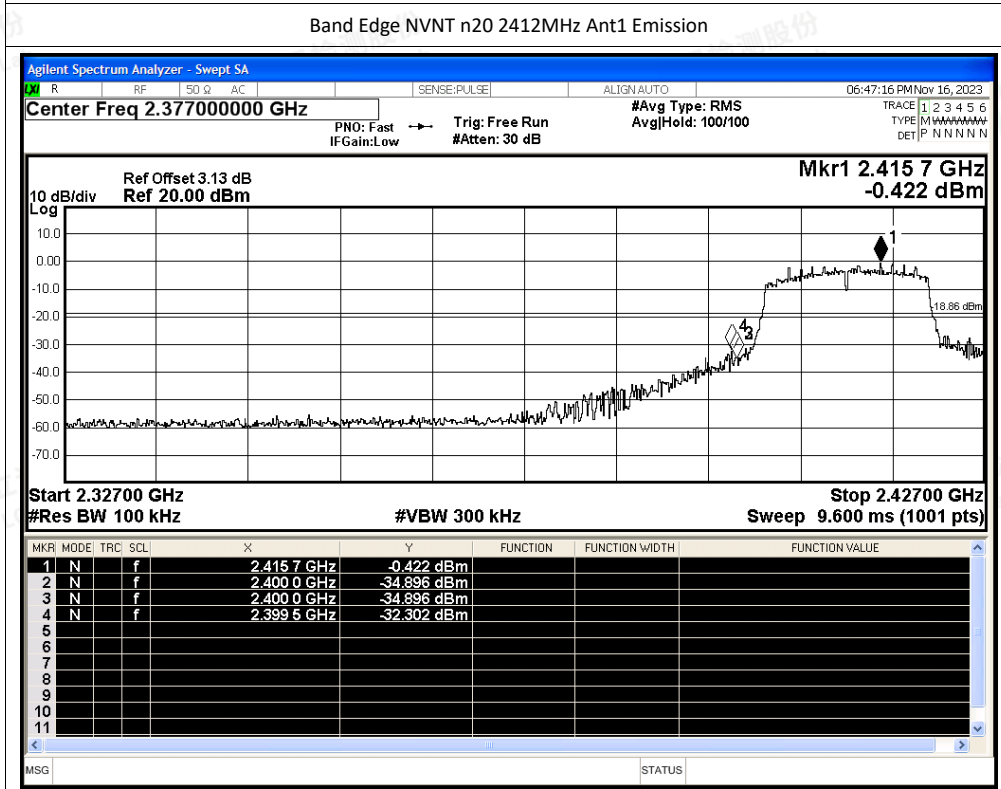
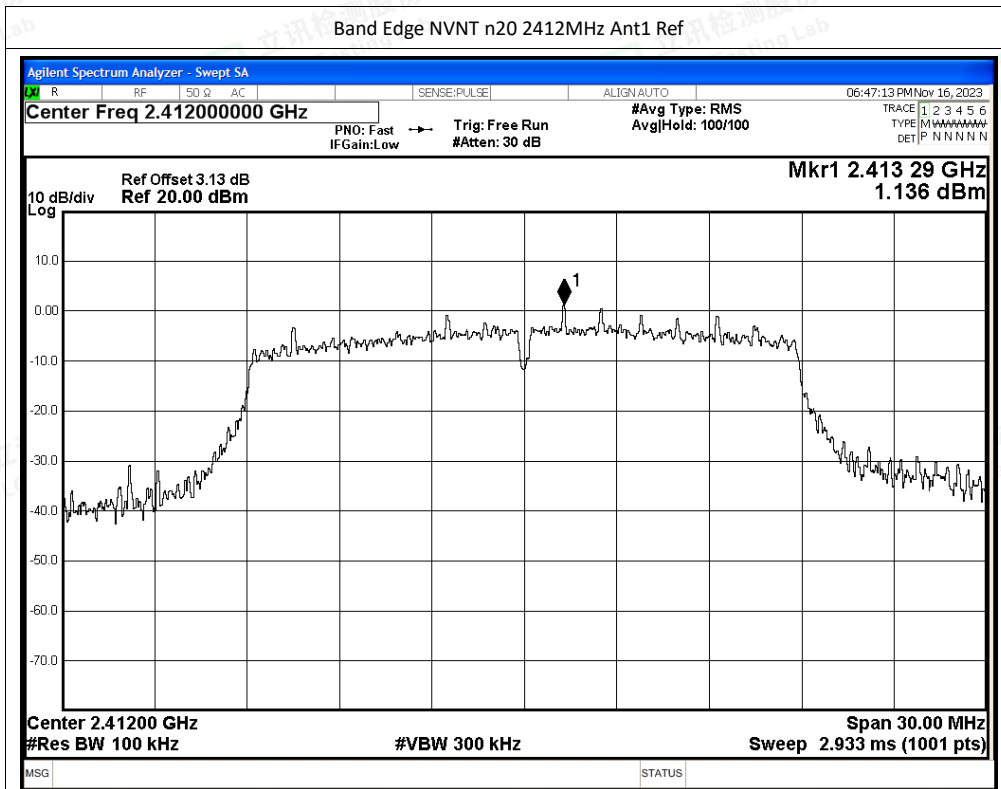


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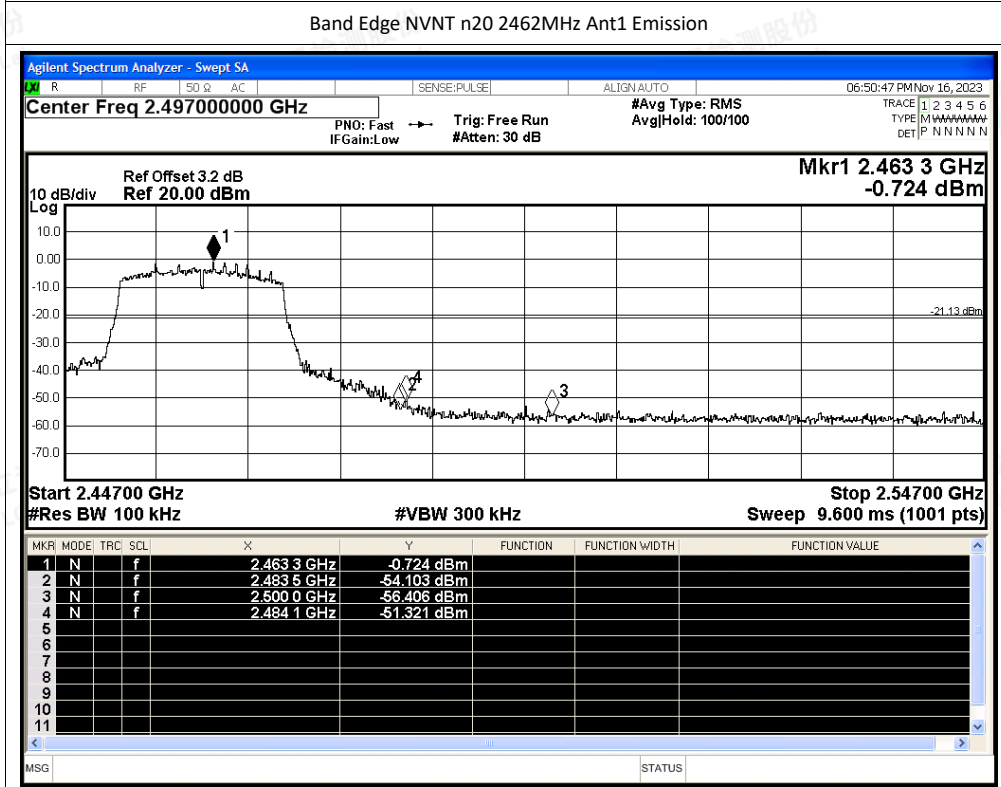
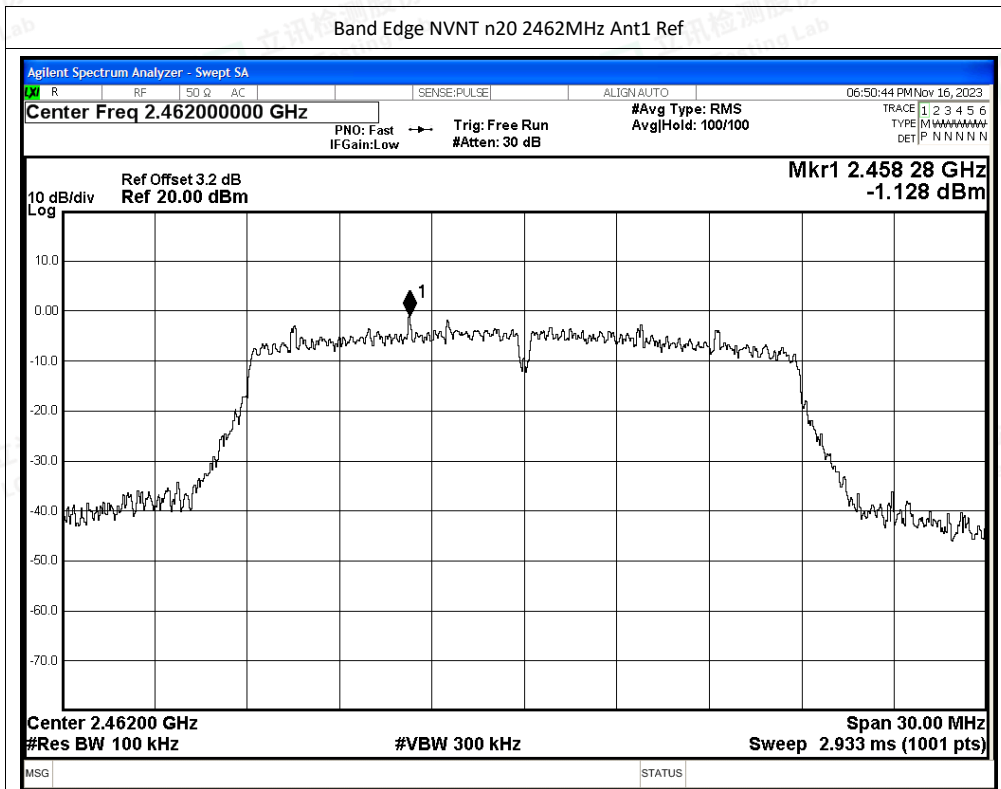


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## A.5 Conducted Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -51.33          | -20         | Pass    |
| NVNT      | b    | 2437            | Ant1    | -49.42          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -49.88          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -45.95          | -20         | Pass    |
| NVNT      | g    | 2437            | Ant1    | -46.01          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -44.35          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -46.36          | -20         | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -46.33          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -42.93          | -20         | Pass    |

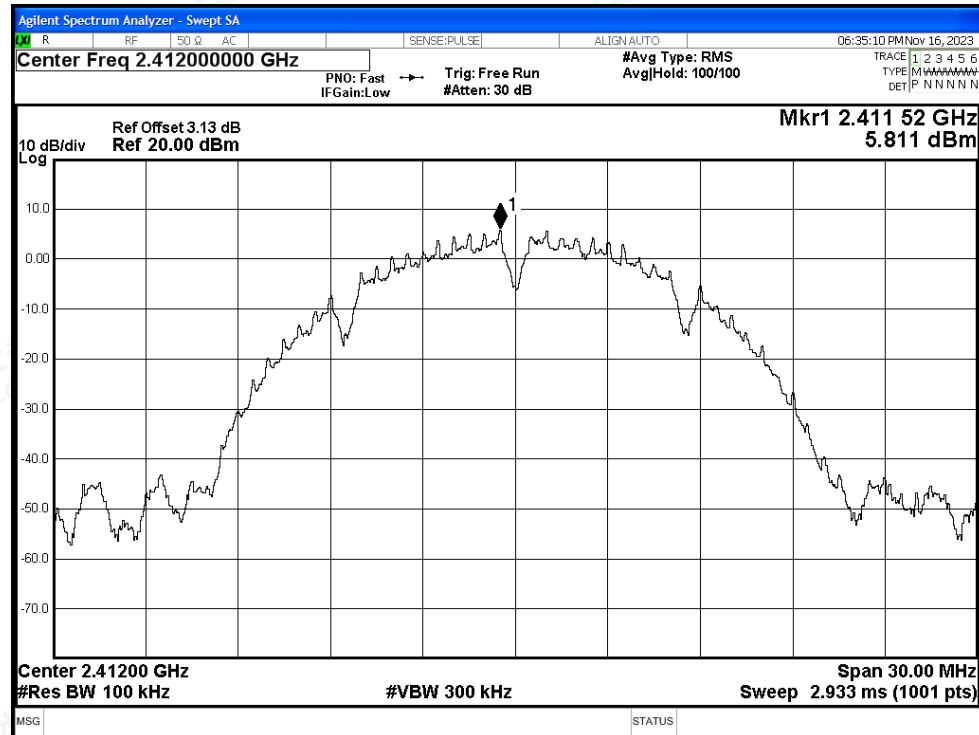


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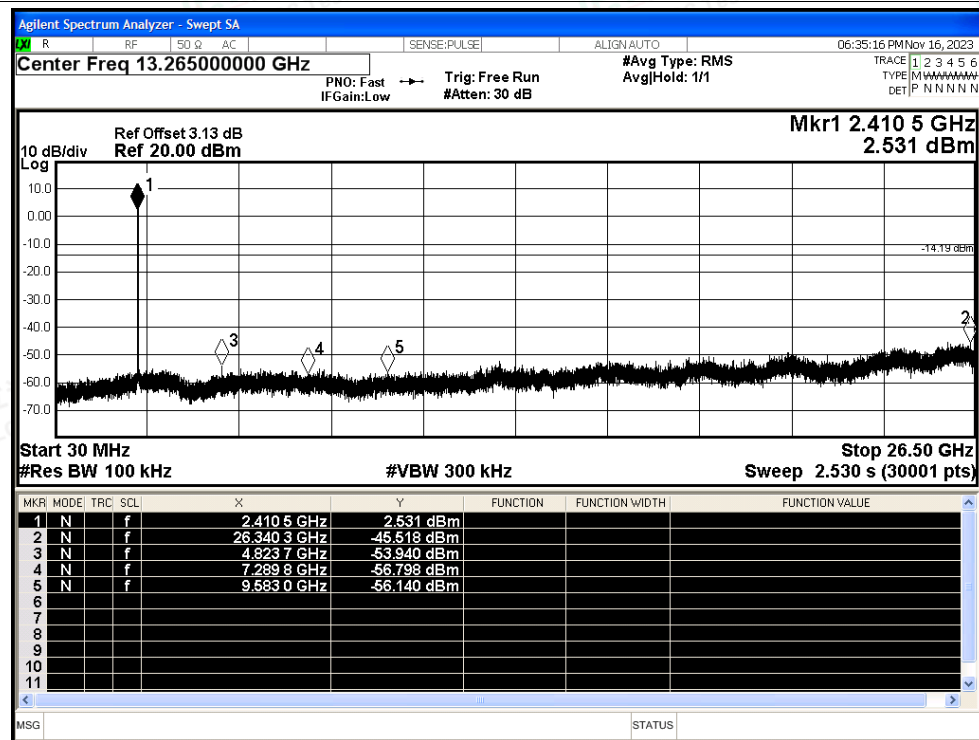


## Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission



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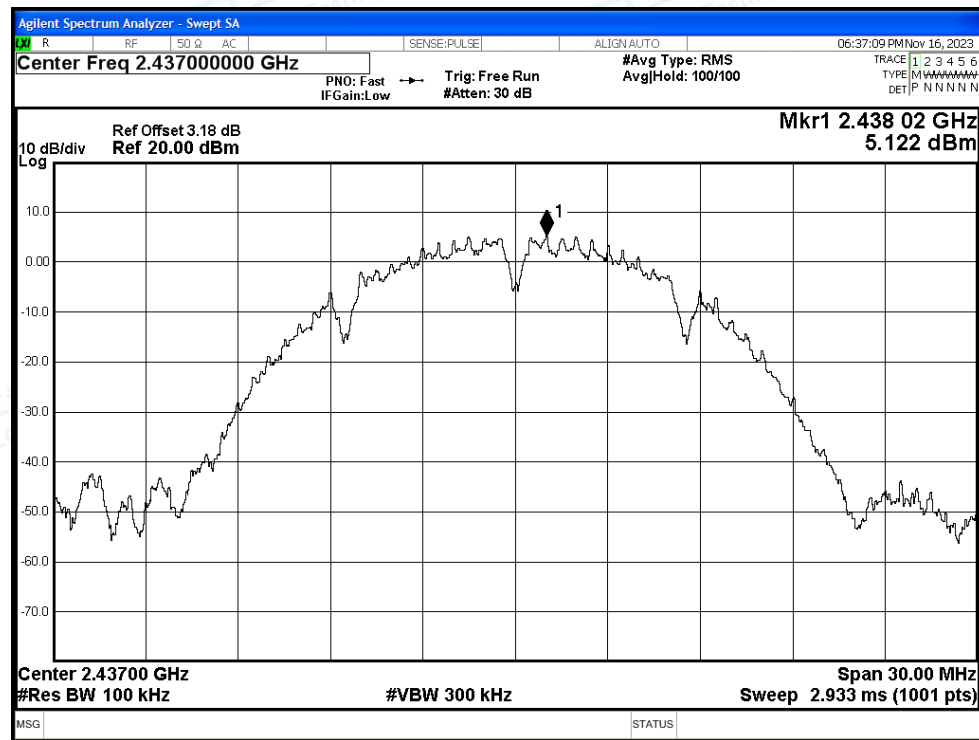
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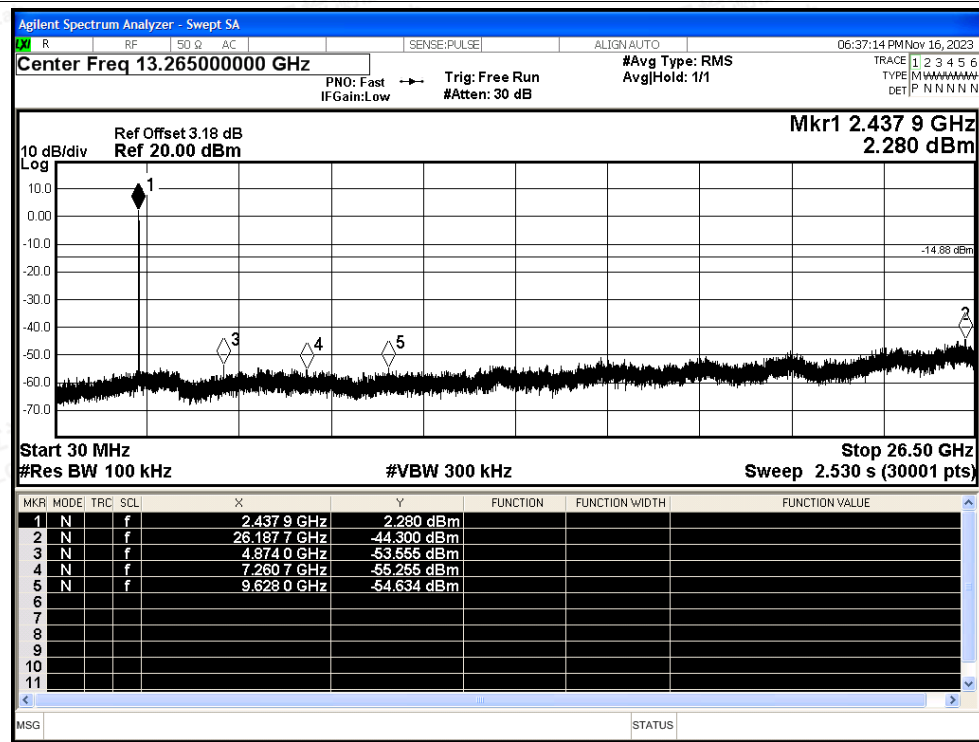
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## Tx. Spurious NVNT b 2437MHz Ant1 Ref



## Tx. Spurious NVNT b 2437MHz Ant1 Emission



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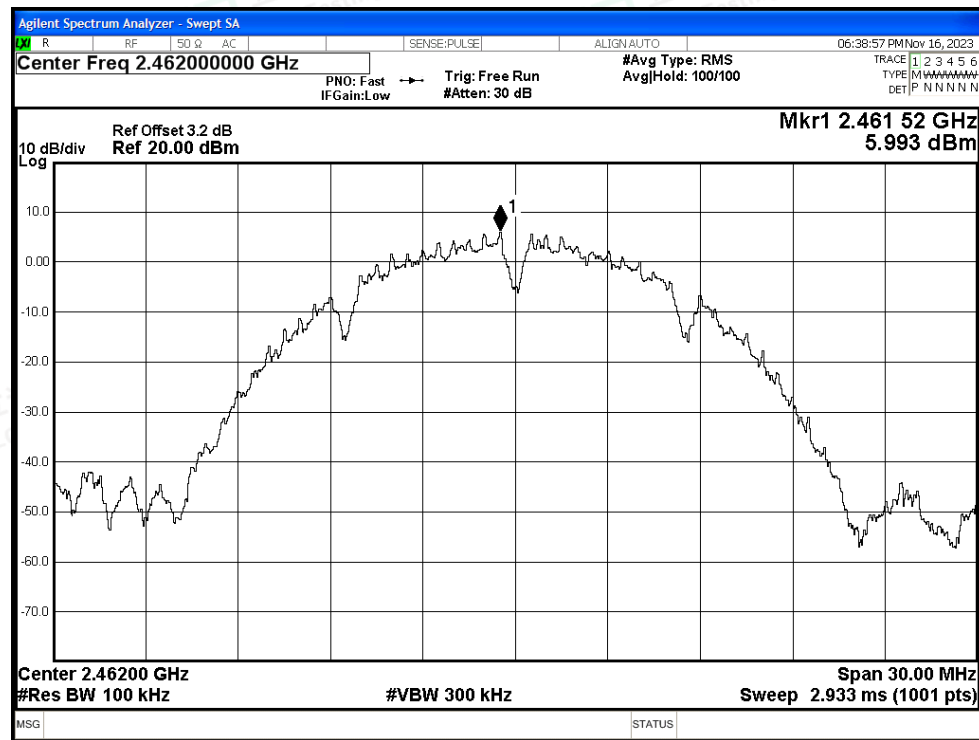
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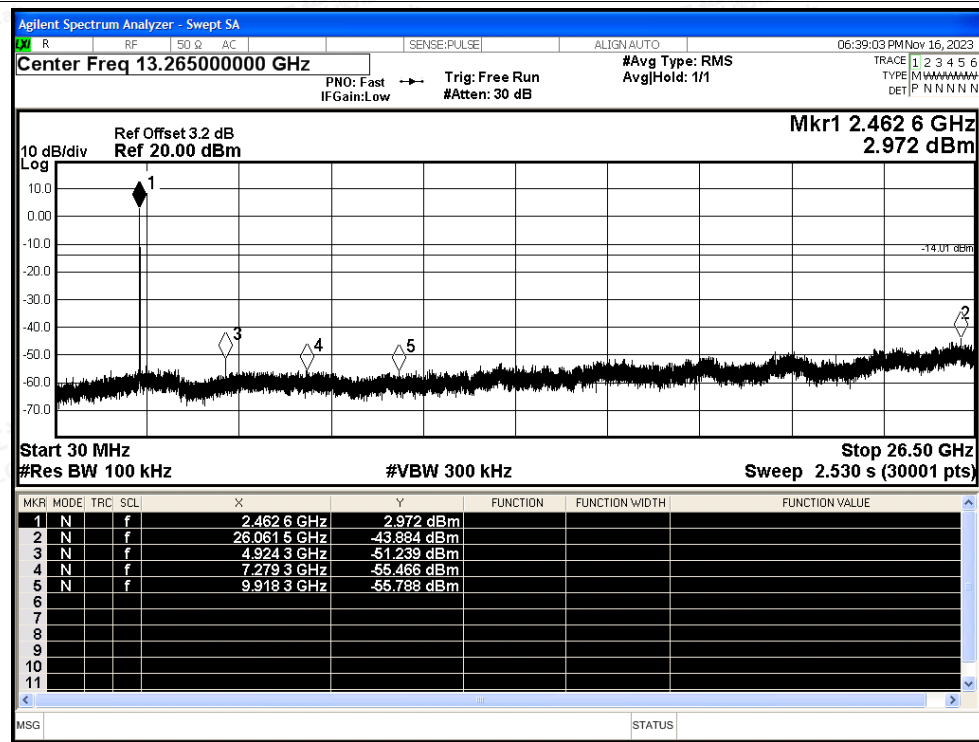
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## Tx. Spurious NVNT b 2462MHz Ant1 Ref



## Tx. Spurious NVNT b 2462MHz Ant1 Emission

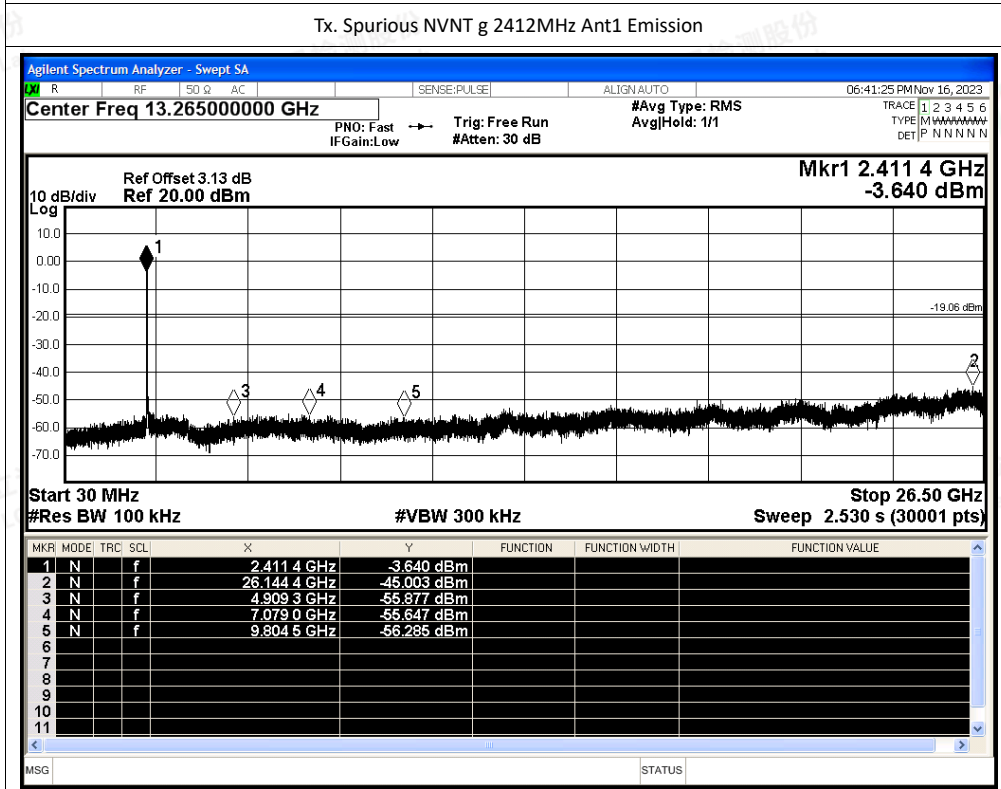
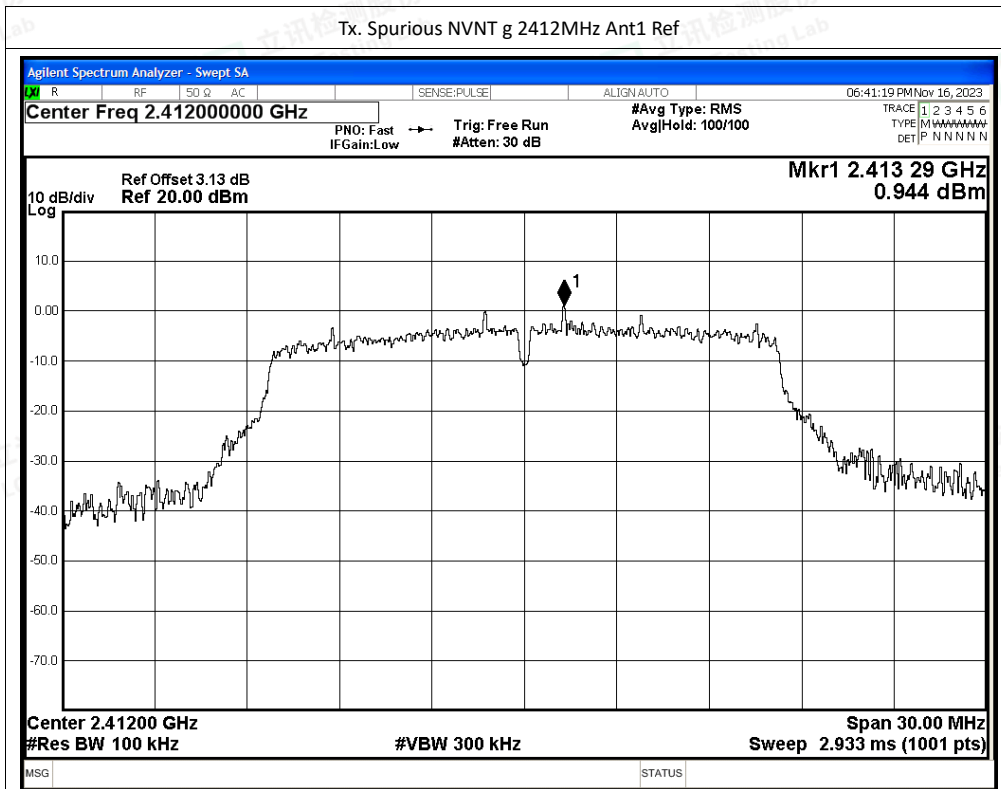


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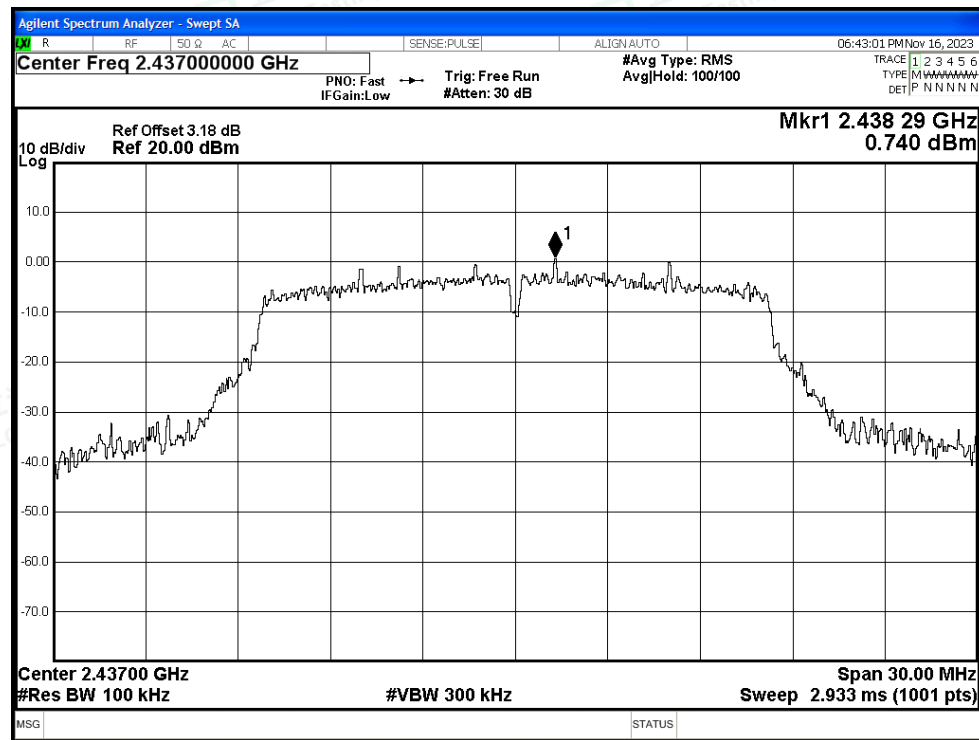
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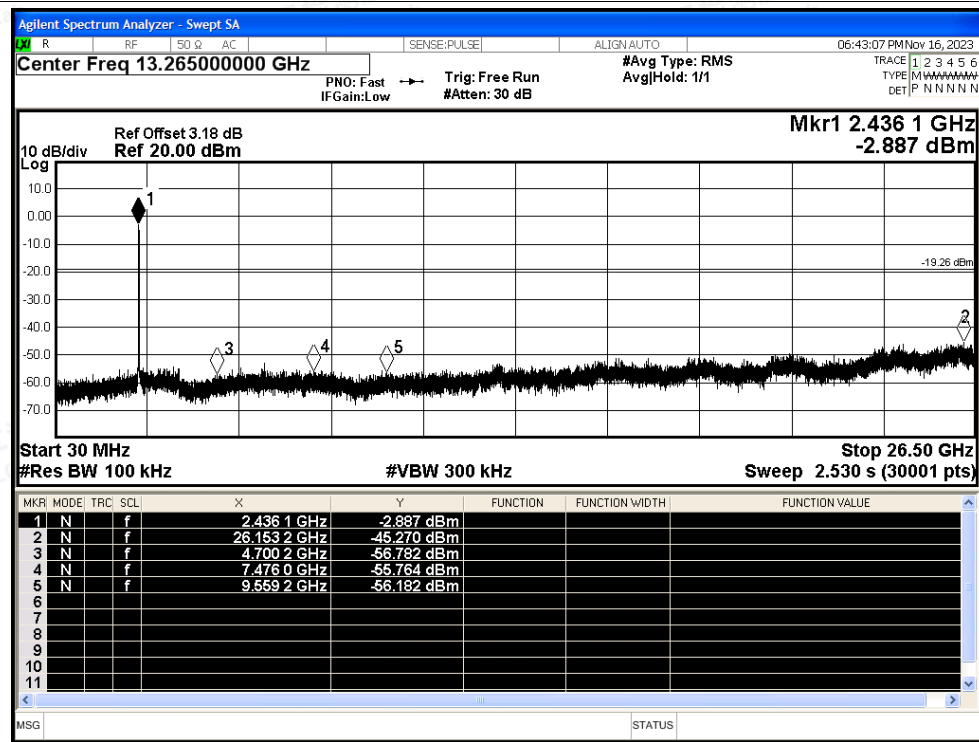
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## Tx. Spurious NVNT g 2437MHz Ant1 Ref



## Tx. Spurious NVNT g 2437MHz Ant1 Emission



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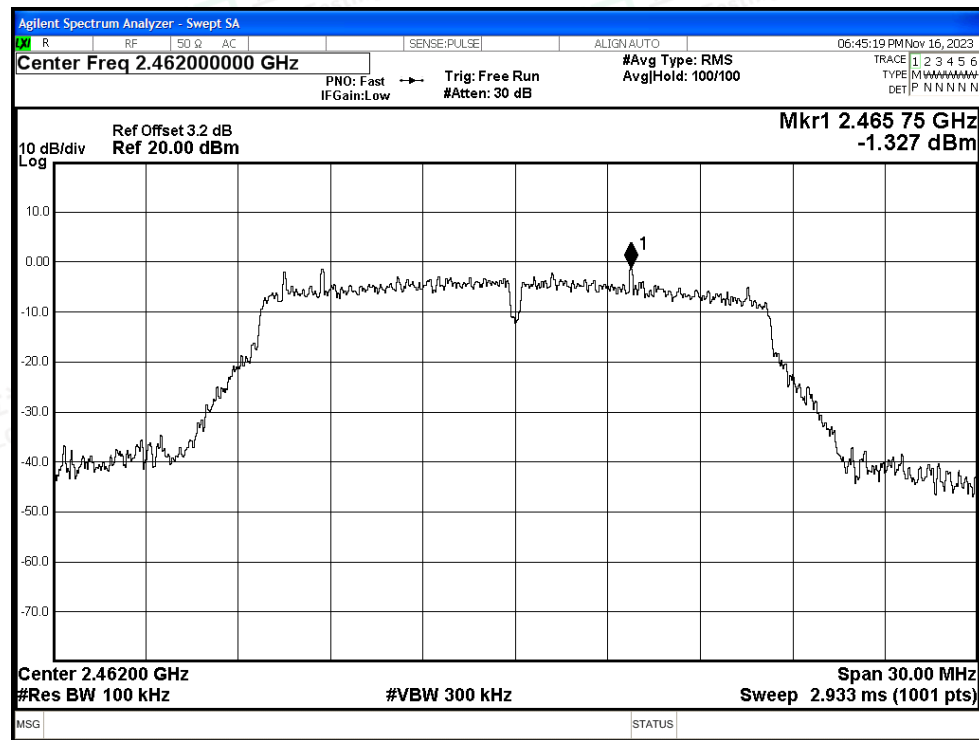
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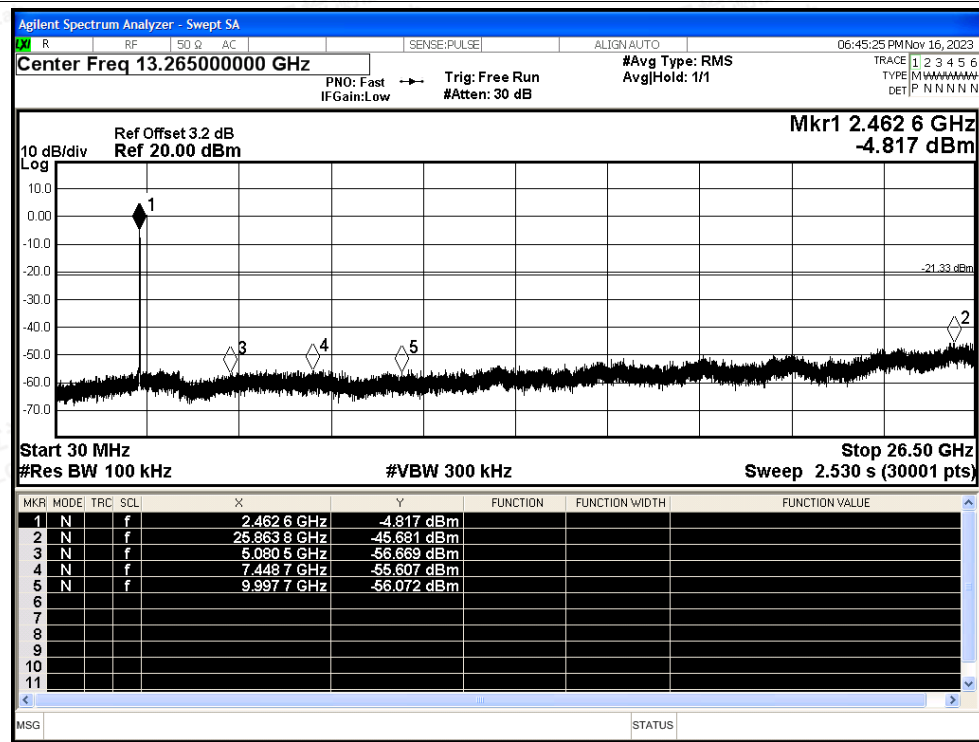
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## Tx. Spurious NVNT g 2462MHz Ant1 Ref



## Tx. Spurious NVNT g 2462MHz Ant1 Emission



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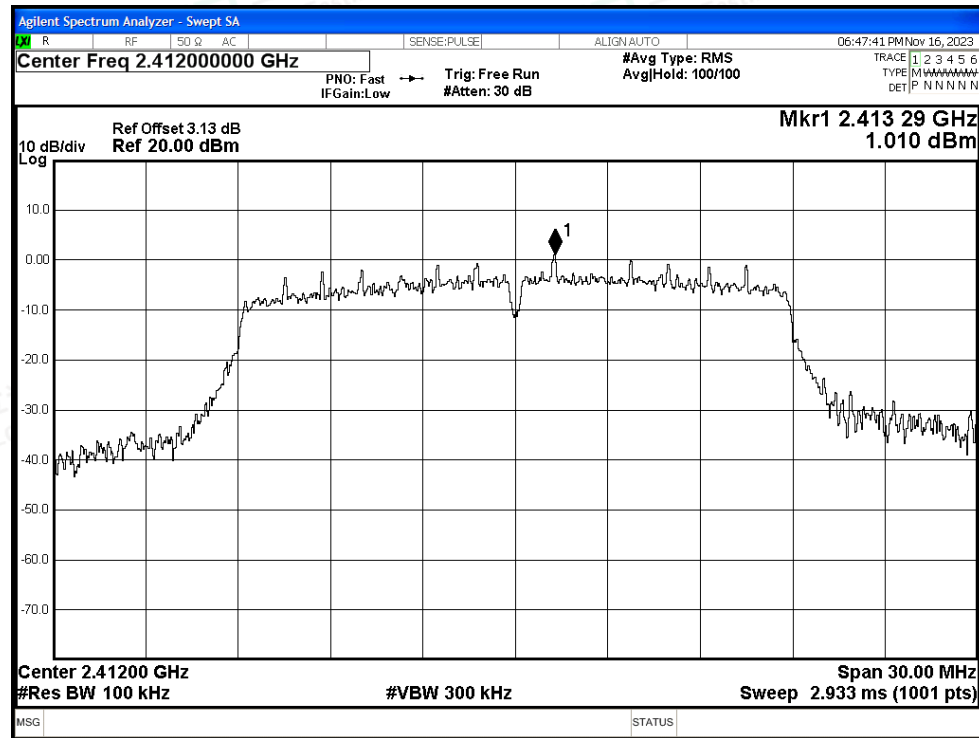
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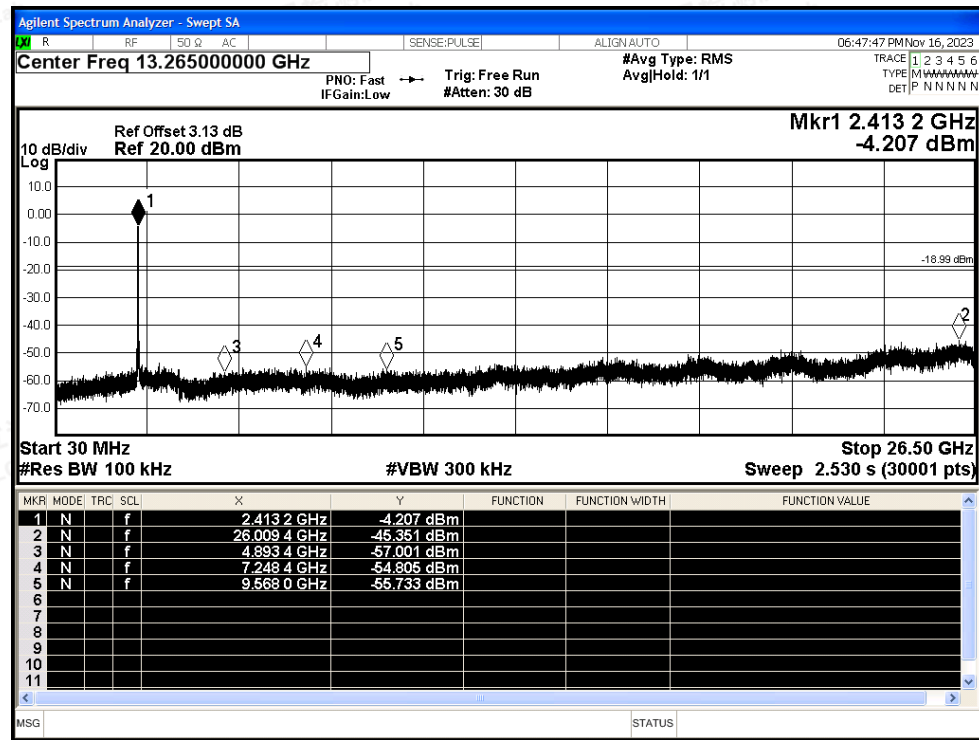
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## Tx. Spurious NVNT n20 2412MHz Ant1 Ref



## Tx. Spurious NVNT n20 2412MHz Ant1 Emission



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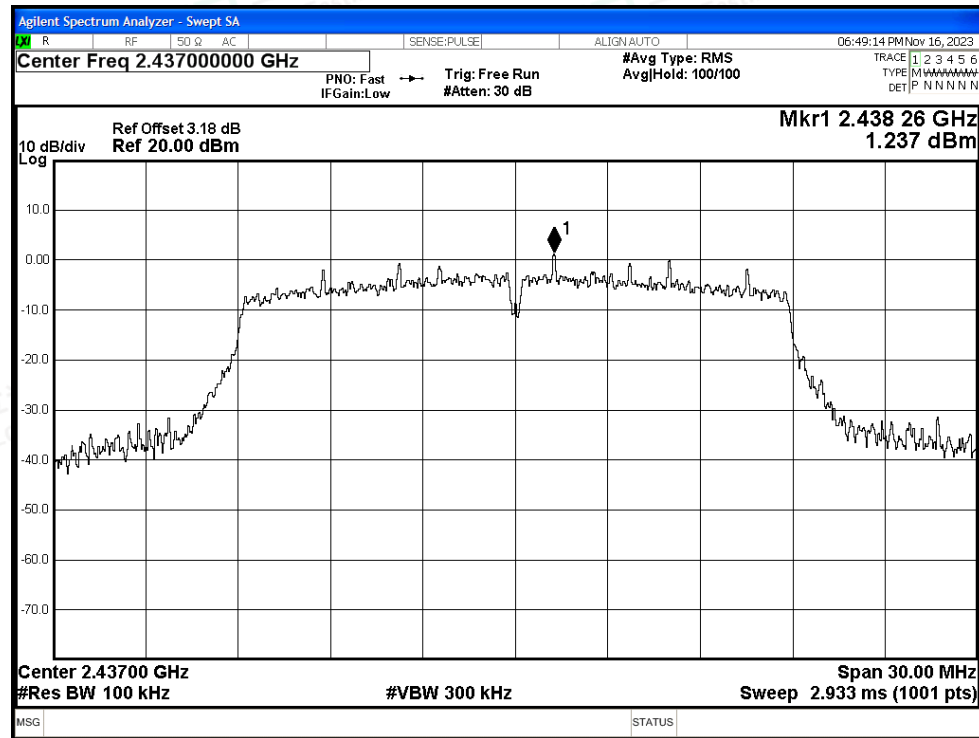
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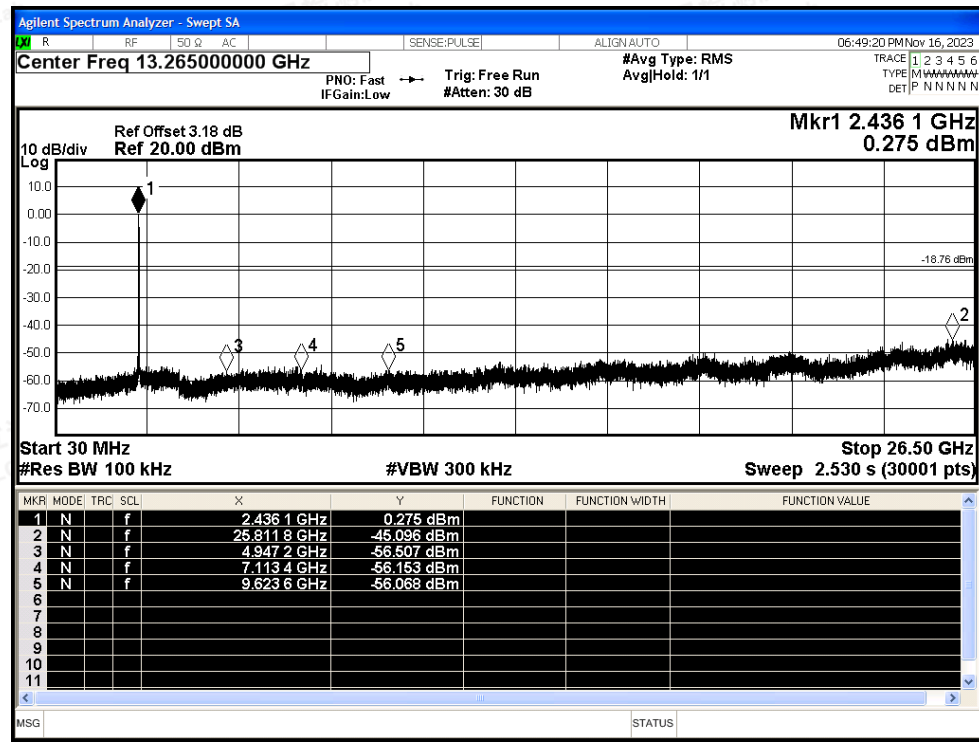
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## Tx. Spurious NVNT n20 2437MHz Ant1 Ref



## Tx. Spurious NVNT n20 2437MHz Ant1 Emission



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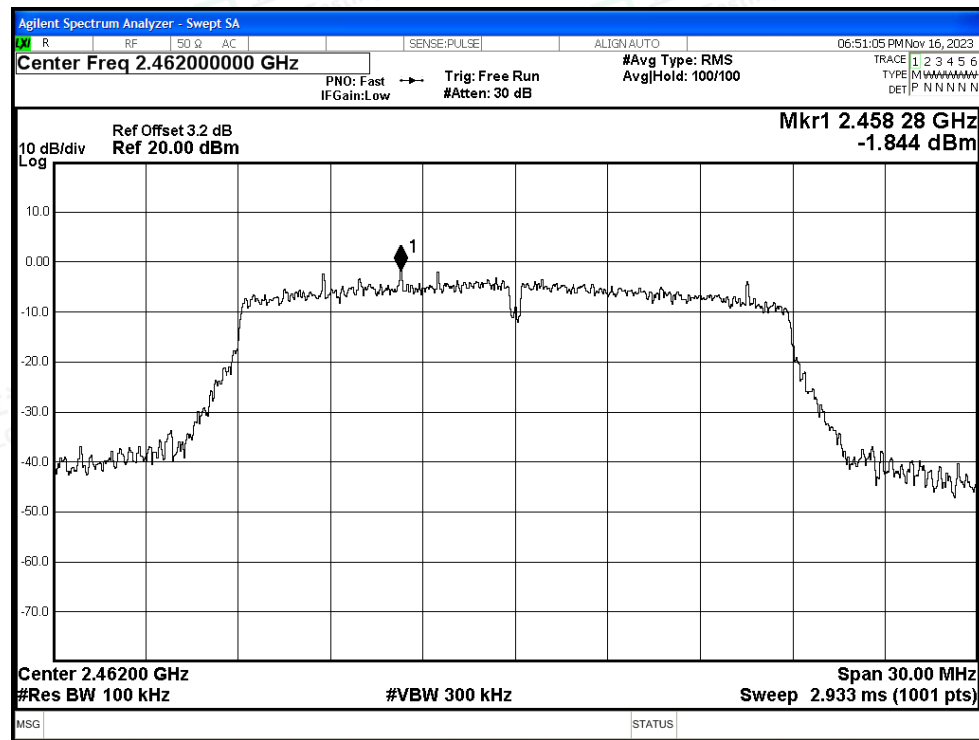
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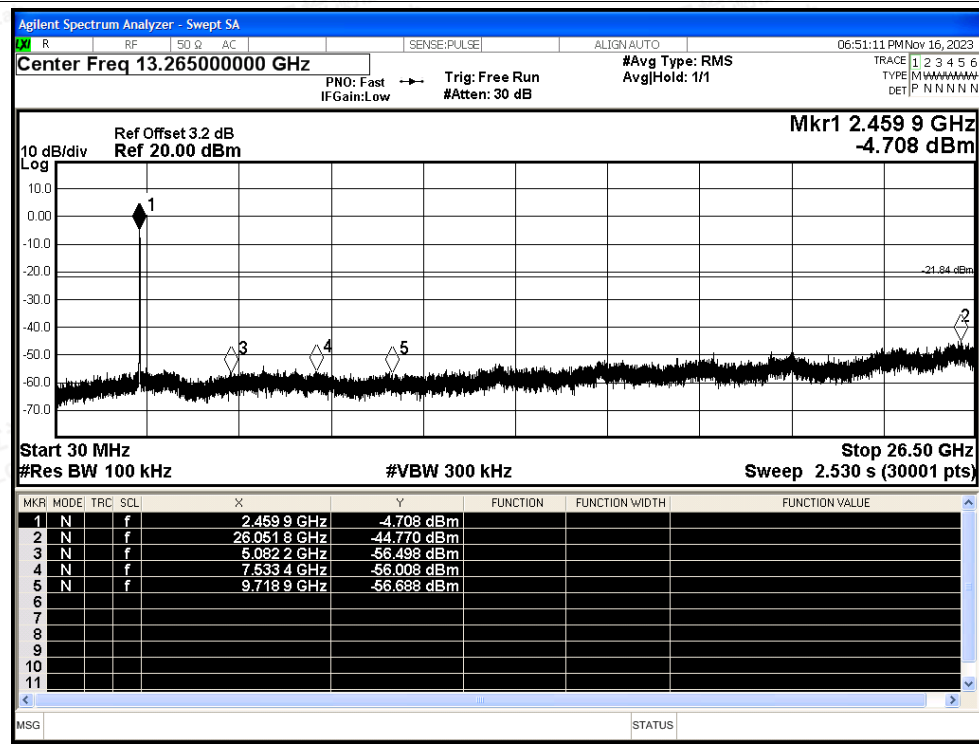
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## Tx. Spurious NVNT n20 2462MHz Ant1 Ref



## Tx. Spurious NVNT n20 2462MHz Ant1 Emission



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## A.6 Duty Cycle

### Test Result

| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | b    | 2412            | Ant1    | 99.57          | 0                      | 0.01      |
| NVNT      | b    | 2437            | Ant1    | 99.57          | 0                      | 0.01      |
| NVNT      | b    | 2462            | Ant1    | 99.57          | 0                      | 0.01      |
| NVNT      | g    | 2412            | Ant1    | 96.94          | 0.13                   | 0.72      |
| NVNT      | g    | 2437            | Ant1    | 97.08          | 0.13                   | 0.72      |
| NVNT      | g    | 2462            | Ant1    | 97.08          | 0.13                   | 0.72      |
| NVNT      | n20  | 2412            | Ant1    | 96.73          | 0.14                   | 0.77      |
| NVNT      | n20  | 2437            | Ant1    | 96.88          | 0.14                   | 0.77      |
| NVNT      | n20  | 2462            | Ant1    | 96.73          | 0.14                   | 0.77      |

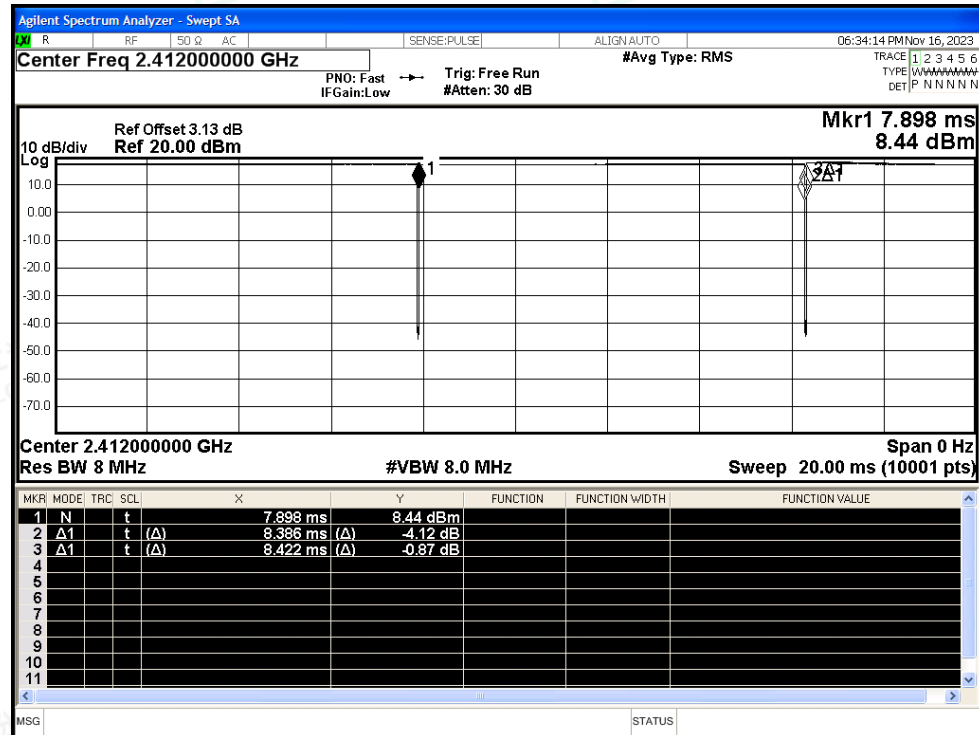


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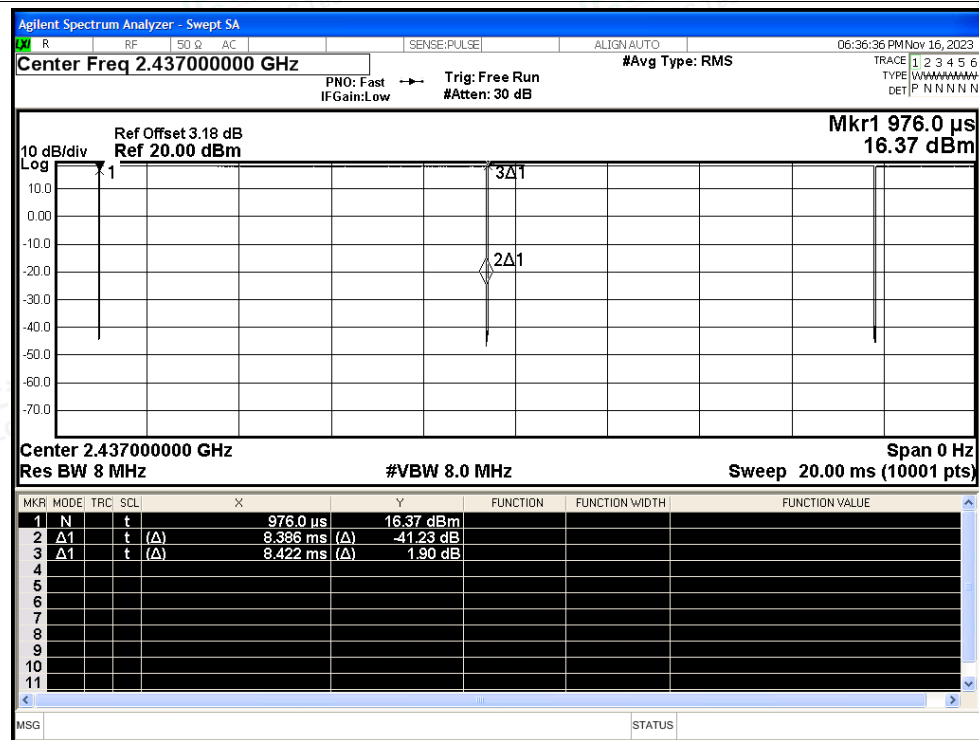


## Test Graphs

## Duty Cycle NVNT b 2412MHz Ant1



## Duty Cycle NVNT b 2437MHz Ant1

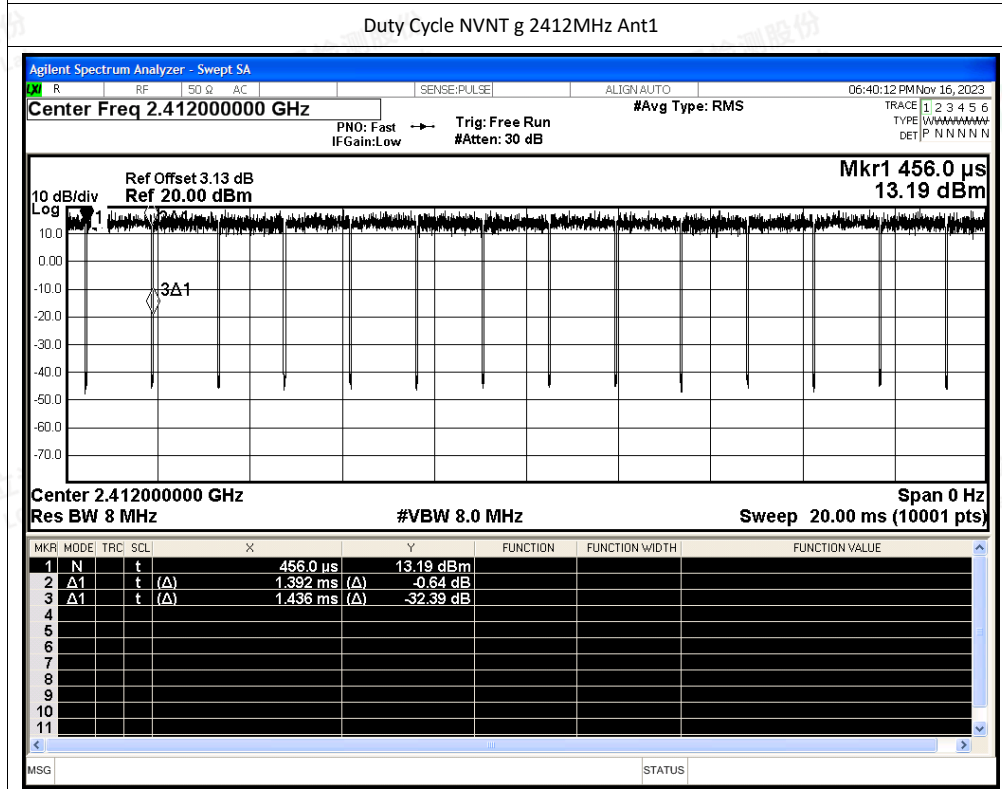
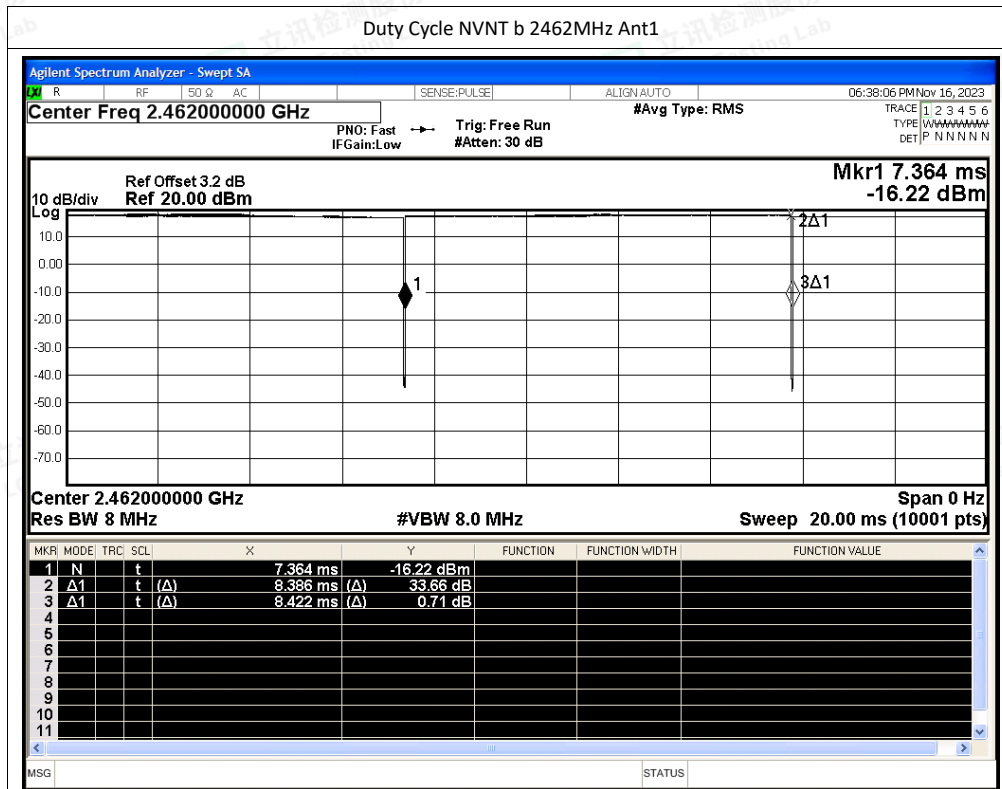


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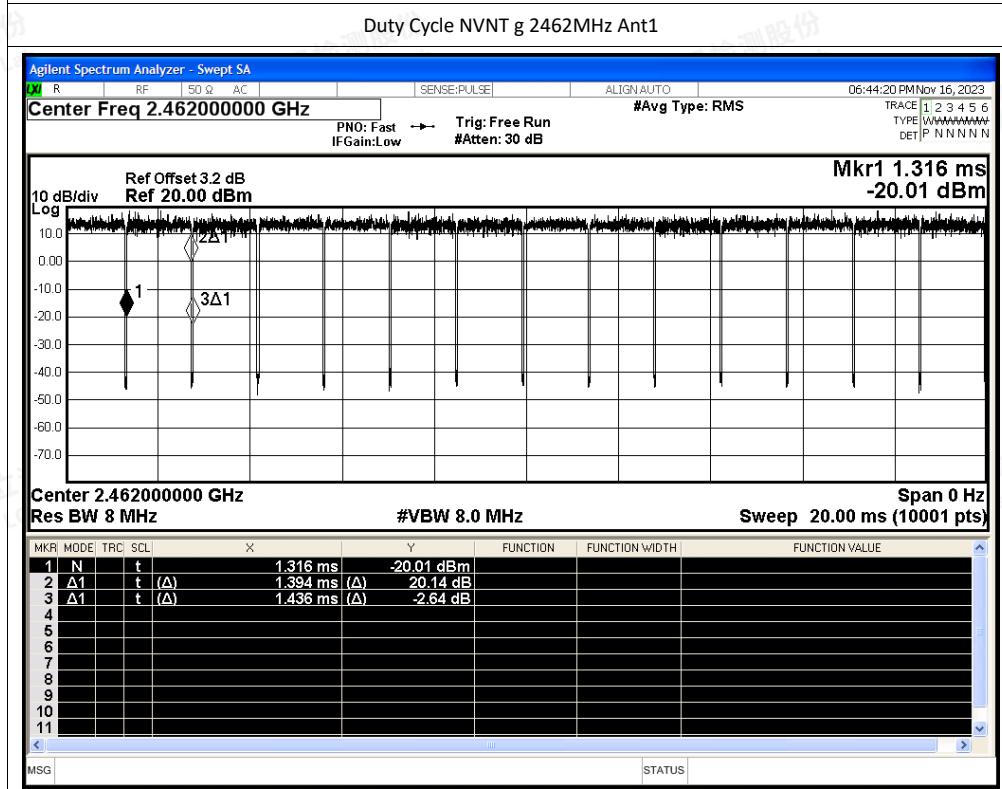
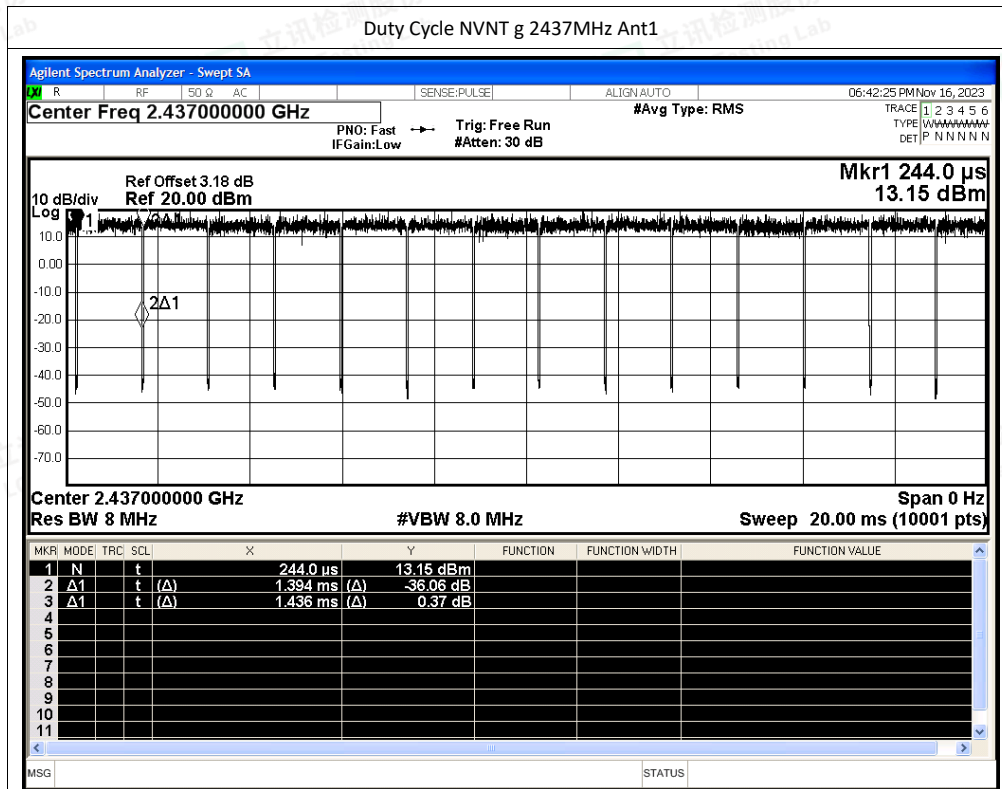


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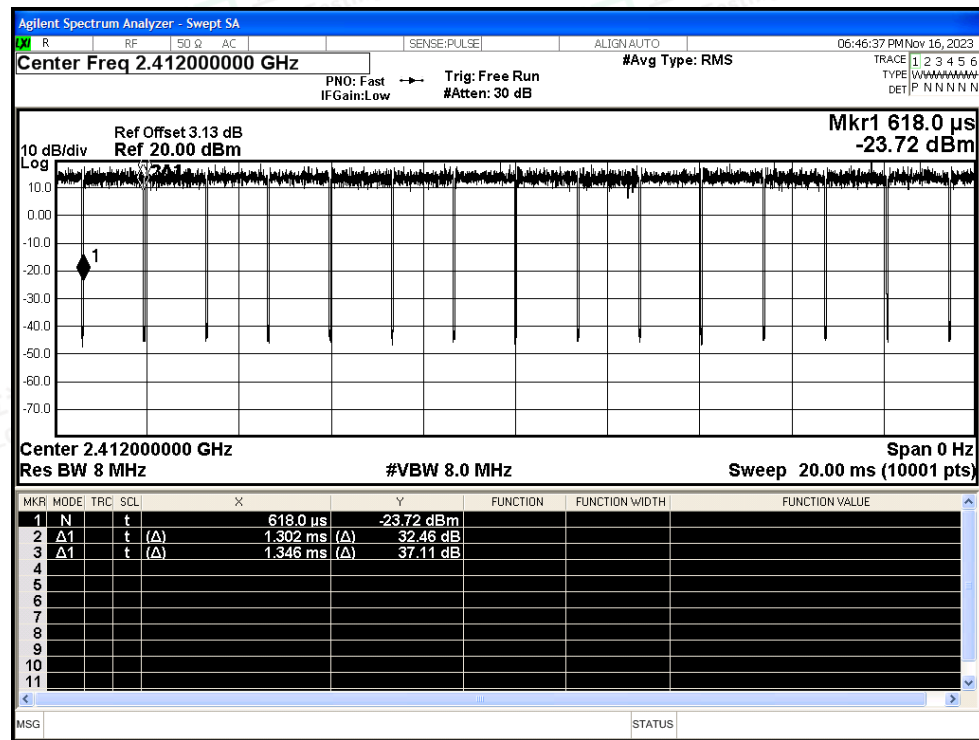
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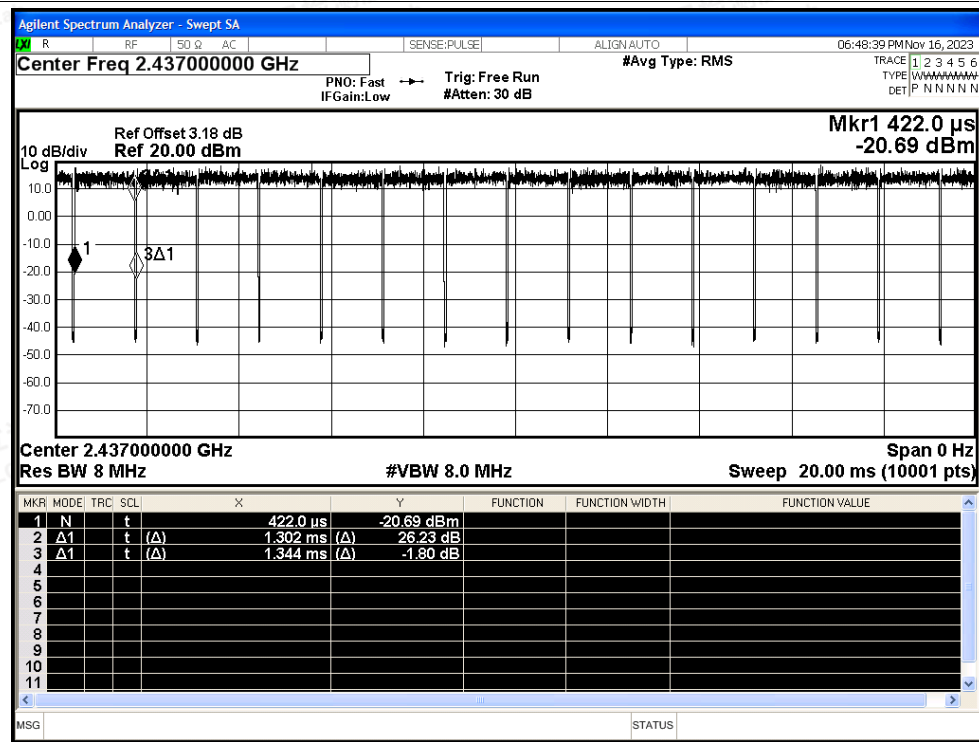
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## Duty Cycle NVNT n20 2412MHz Ant1



## Duty Cycle NVNT n20 2437MHz Ant1

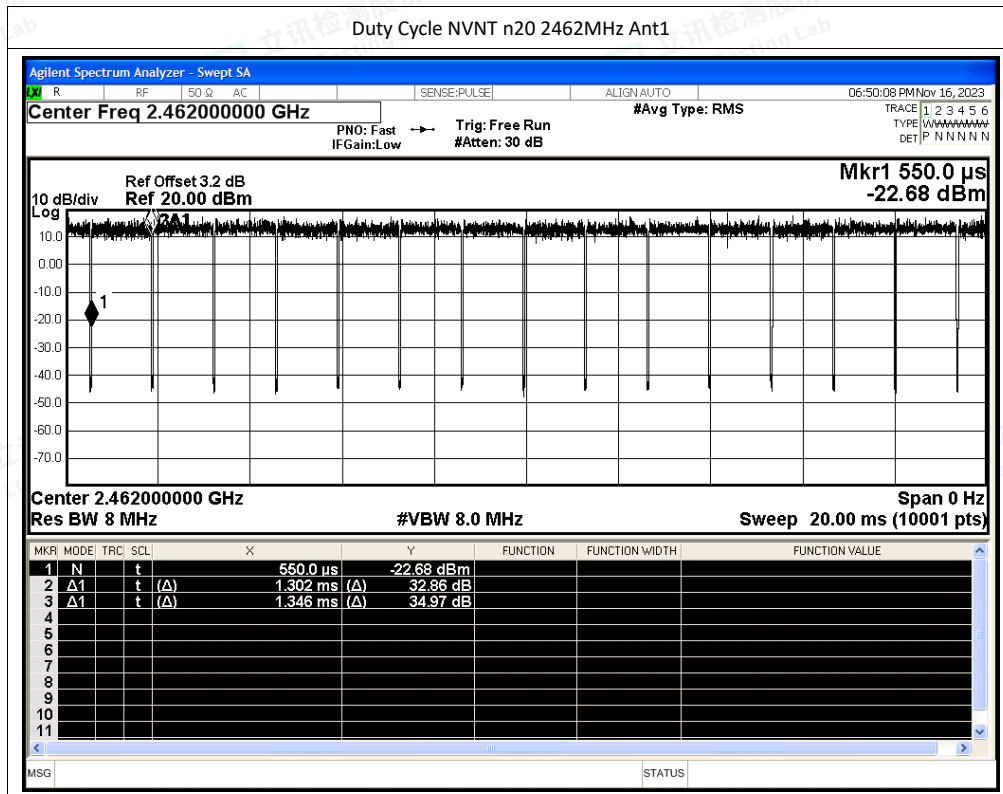


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## A.7 Emissions in Restricted Bands

| Condition | Mode | Frequency<br>(MHz) | Antenna | Spur Freq<br>(MHz) | Power<br>(dBm) | Gain<br>(dBi) | E<br>(dBuV/m) | Detector | Limit<br>(dBuV/m) | Verdict |
|-----------|------|--------------------|---------|--------------------|----------------|---------------|---------------|----------|-------------------|---------|
| NVNT      | b    | 2412               | Ant1    | 2310               | -50.15         | 2.43          | 47.54         | Peak     | 74                | Pass    |
| NVNT      | b    | 2412               | Ant1    | 2310               | -56.82         | 2.43          | 40.87         | Average  | 54                | Pass    |
| NVNT      | b    | 2412               | Ant1    | 2388.507           | -45.68         | 2.43          | 52.01         | Peak     | 74                | Pass    |
| NVNT      | b    | 2412               | Ant1    | 2389.677           | -55.08         | 2.43          | 42.61         | Average  | 54                | Pass    |
| NVNT      | b    | 2412               | Ant1    | 2390               | -47.01         | 2.43          | 50.68         | Peak     | 74                | Pass    |
| NVNT      | b    | 2412               | Ant1    | 2390               | -55.11         | 2.43          | 42.58         | Average  | 54                | Pass    |
| NVNT      | b    | 2462               | Ant1    | 2483.5             | -45.79         | 2.43          | 51.9          | Peak     | 74                | Pass    |
| NVNT      | b    | 2462               | Ant1    | 2483.5             | -54.03         | 2.43          | 43.66         | Average  | 54                | Pass    |
| NVNT      | b    | 2462               | Ant1    | 2497.244           | -44.41         | 2.43          | 53.28         | Peak     | 74                | Pass    |
| NVNT      | b    | 2462               | Ant1    | 2483.517           | -54.03         | 2.43          | 43.66         | Average  | 54                | Pass    |
| NVNT      | b    | 2462               | Ant1    | 2500               | -48.39         | 2.43          | 49.3          | Peak     | 74                | Pass    |
| NVNT      | b    | 2462               | Ant1    | 2500               | -55.06         | 2.43          | 42.63         | Average  | 54                | Pass    |
| NVNT      | g    | 2412               | Ant1    | 2310               | -48.55         | 2.43          | 49.14         | Peak     | 74                | Pass    |
| NVNT      | g    | 2412               | Ant1    | 2310               | -56.39         | 2.43          | 41.3          | Average  | 54                | Pass    |
| NVNT      | g    | 2412               | Ant1    | 2389.911           | -37.01         | 2.43          | 60.68         | Peak     | 74                | Pass    |
| NVNT      | g    | 2412               | Ant1    | 2388.624           | -47.99         | 2.43          | 49.7          | Average  | 54                | Pass    |
| NVNT      | g    | 2412               | Ant1    | 2390               | -37.58         | 2.43          | 60.11         | Peak     | 74                | Pass    |
| NVNT      | g    | 2412               | Ant1    | 2390               | -49.72         | 2.43          | 47.97         | Average  | 54                | Pass    |
| NVNT      | g    | 2462               | Ant1    | 2483.5             | -42.34         | 2.43          | 55.35         | Peak     | 74                | Pass    |
| NVNT      | g    | 2462               | Ant1    | 2483.5             | -51.15         | 2.43          | 46.54         | Average  | 54                | Pass    |
| NVNT      | g    | 2462               | Ant1    | 2484.312           | -39.08         | 2.43          | 58.61         | Peak     | 74                | Pass    |
| NVNT      | g    | 2462               | Ant1    | 2483.517           | -51.15         | 2.43          | 46.54         | Average  | 54                | Pass    |
| NVNT      | g    | 2462               | Ant1    | 2500               | -47.26         | 2.43          | 50.43         | Peak     | 74                | Pass    |
| NVNT      | g    | 2462               | Ant1    | 2500               | -54.5          | 2.43          | 43.19         | Average  | 54                | Pass    |
| NVNT      | n20  | 2412               | Ant1    | 2310               | -49.77         | 2.43          | 47.92         | Peak     | 74                | Pass    |
| NVNT      | n20  | 2412               | Ant1    | 2310               | -56.38         | 2.43          | 41.31         | Average  | 54                | Pass    |
| NVNT      | n20  | 2412               | Ant1    | 2389.677           | -27.35         | 2.43          | 70.34         | Peak     | 74                | Pass    |
| NVNT      | n20  | 2412               | Ant1    | 2389.677           | -46.63         | 2.43          | 51.06         | Average  | 54                | Pass    |
| NVNT      | n20  | 2412               | Ant1    | 2390               | -27.11         | 2.43          | 70.58         | Peak     | 74                | Pass    |
| NVNT      | n20  | 2412               | Ant1    | 2390               | -46.97         | 2.43          | 50.72         | Average  | 54                | Pass    |
| NVNT      | n20  | 2462               | Ant1    | 2483.5             | -40.37         | 2.43          | 57.32         | Peak     | 74                | Pass    |
| NVNT      | n20  | 2462               | Ant1    | 2483.5             | -50.22         | 2.43          | 47.47         | Average  | 54                | Pass    |
| NVNT      | n20  | 2462               | Ant1    | 2486.273           | -37.08         | 2.43          | 60.61         | Peak     | 74                | Pass    |
| NVNT      | n20  | 2462               | Ant1    | 2483.729           | -50.04         | 2.43          | 47.65         | Average  | 54                | Pass    |
| NVNT      | n20  | 2462               | Ant1    | 2500               | -47.46         | 2.43          | 50.23         | Peak     | 74                | Pass    |
| NVNT      | n20  | 2462               | Ant1    | 2500               | -54.53         | 2.43          | 43.16         | Average  | 54                | Pass    |



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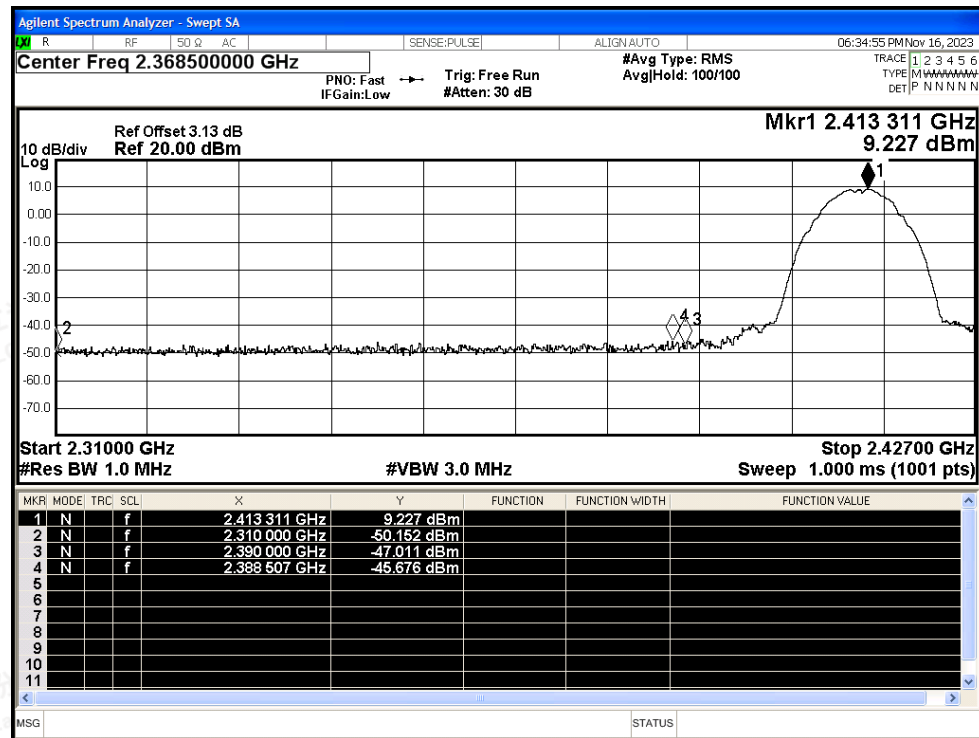
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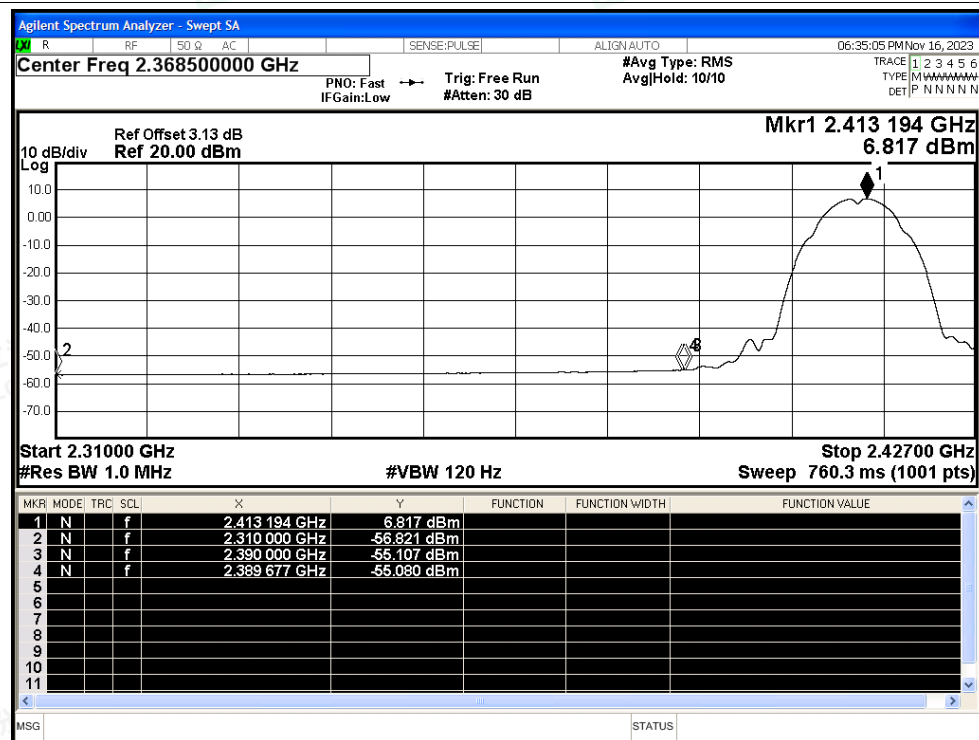


## Test Graphs

Restrict Band NVNT b 2412MHz Ant1 Peak



Restrict Band NVNT b 2412MHz Ant1 Average

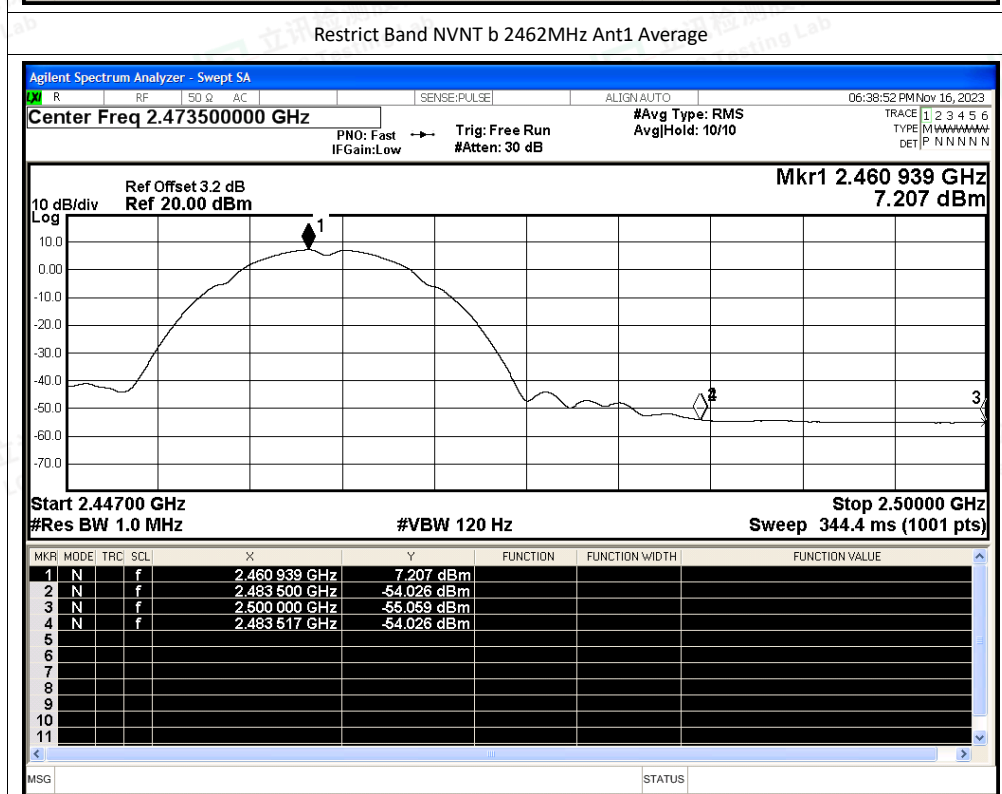
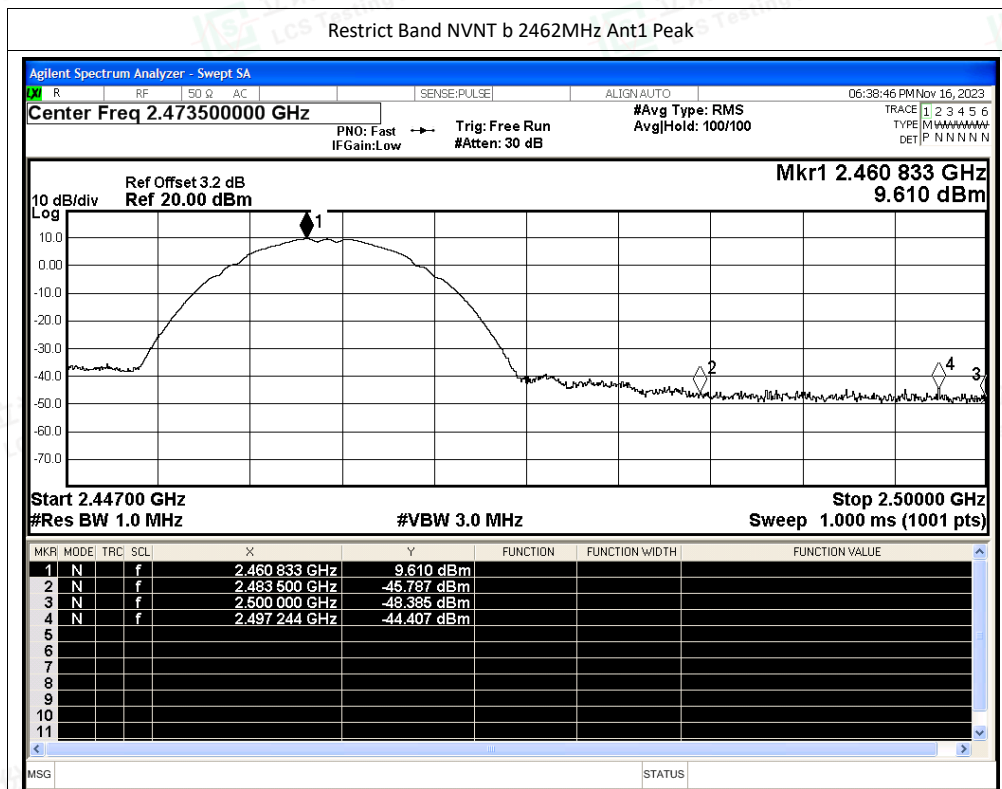


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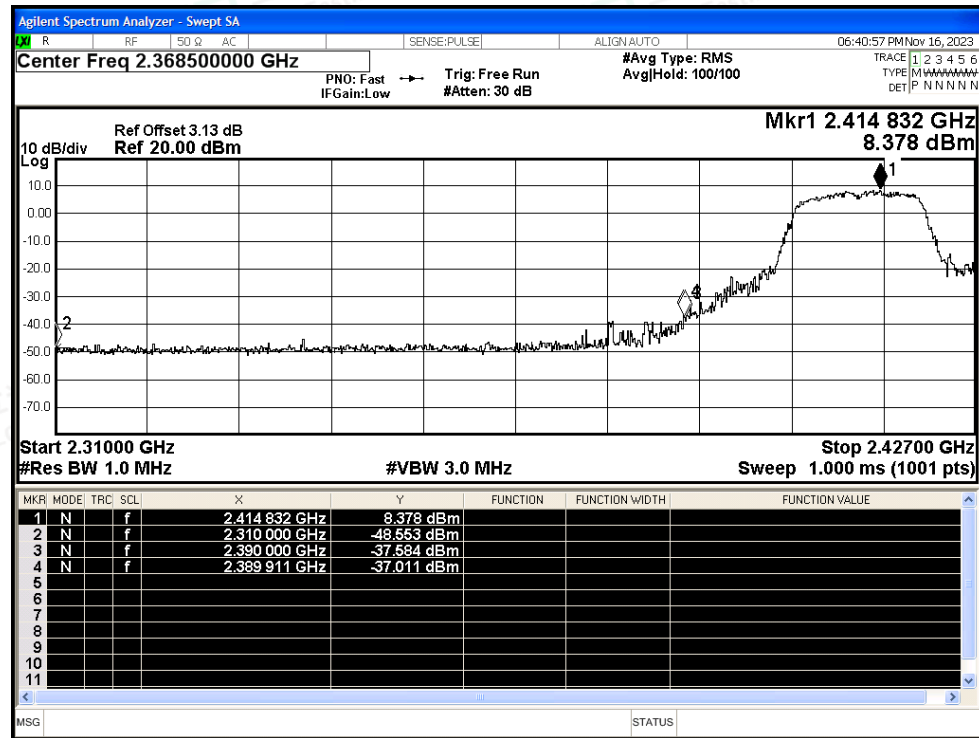
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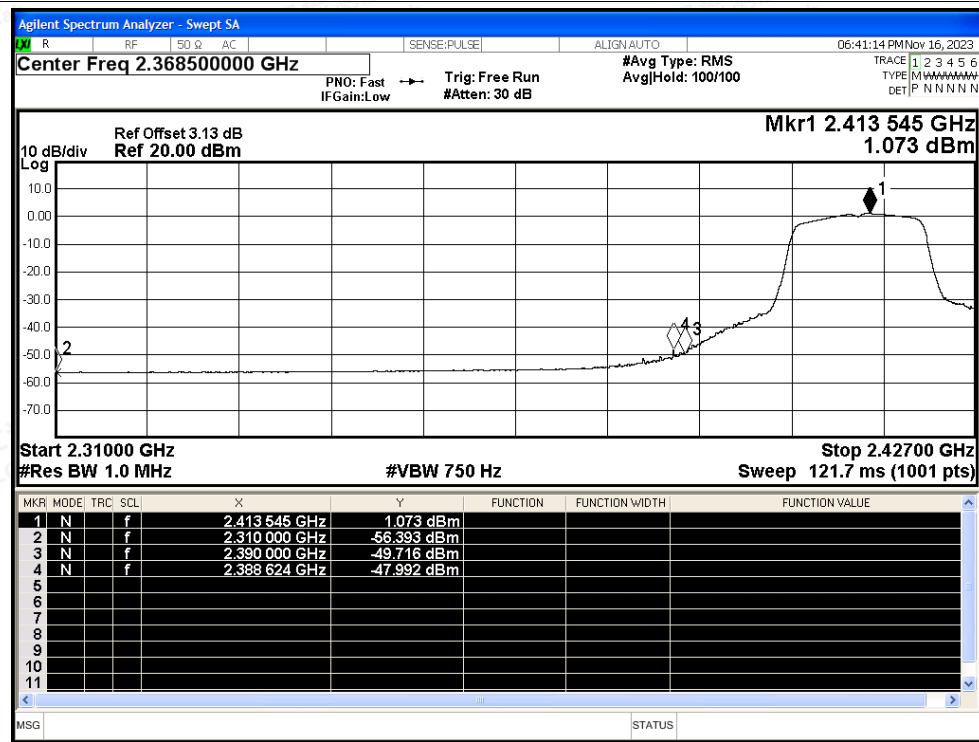
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## Restrict Band NVNT g 2412MHz Ant1 Peak



## Restrict Band NVNT g 2412MHz Ant1 Average



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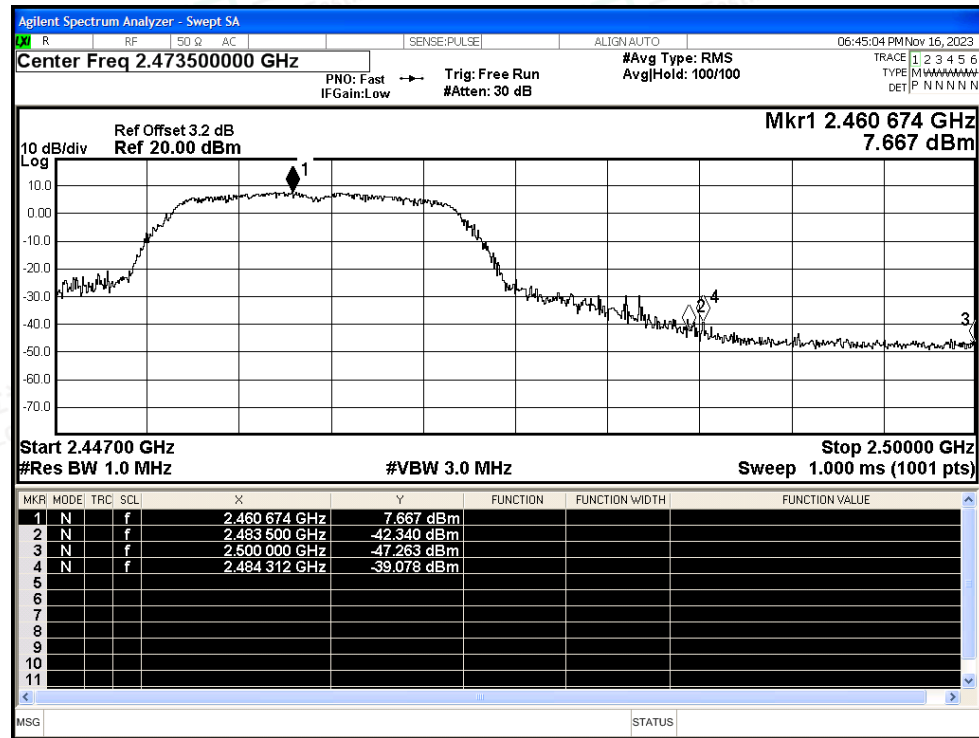
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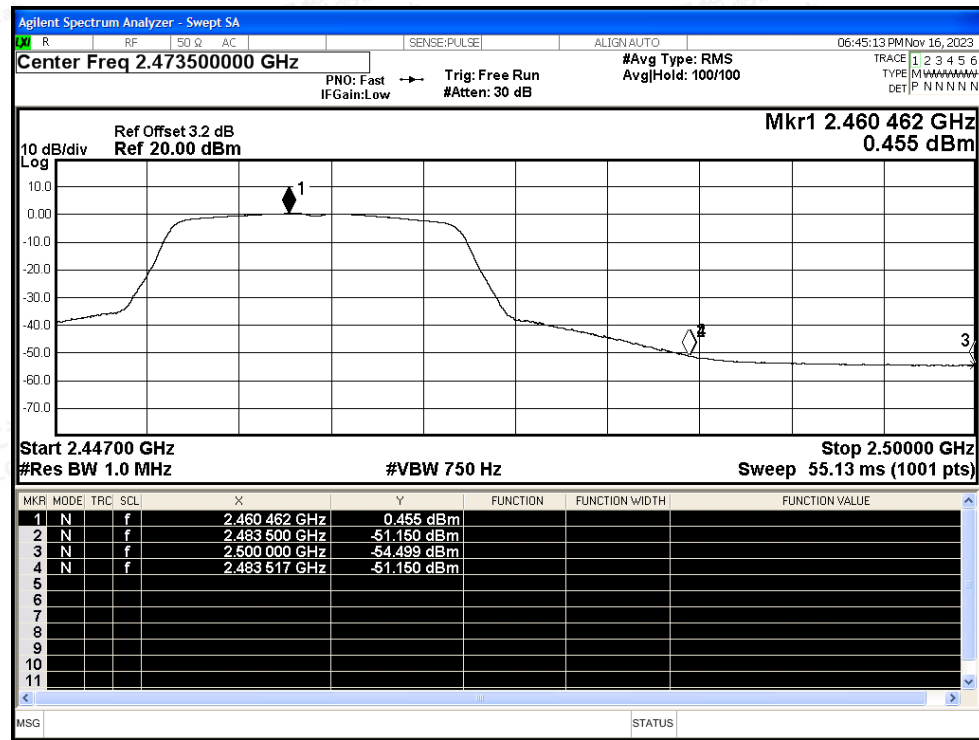
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## Restrict Band NVNT g 2462MHz Ant1 Peak



## Restrict Band NVNT g 2462MHz Ant1 Average



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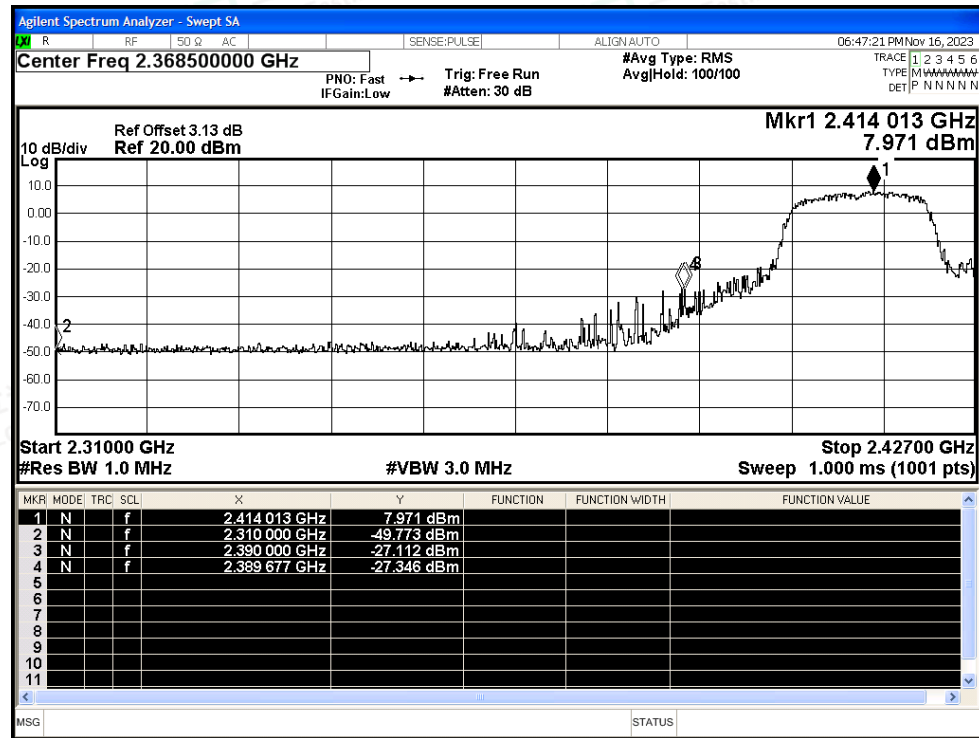
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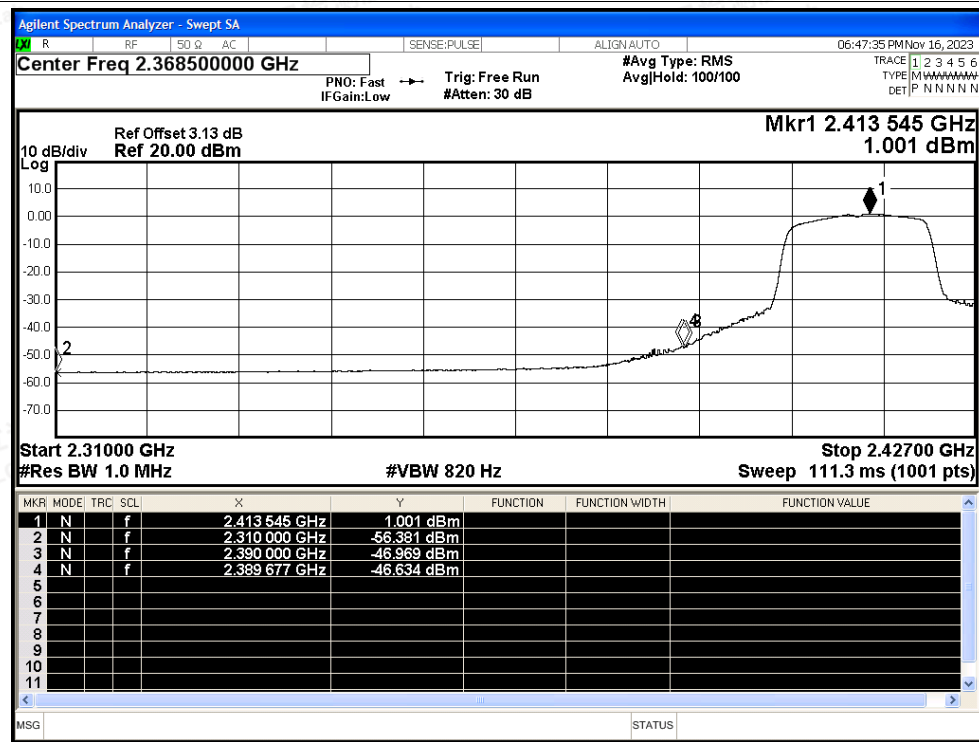
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## Restrict Band NVNT n20 2412MHz Ant1 Peak



## Restrict Band NVNT n20 2412MHz Ant1 Average



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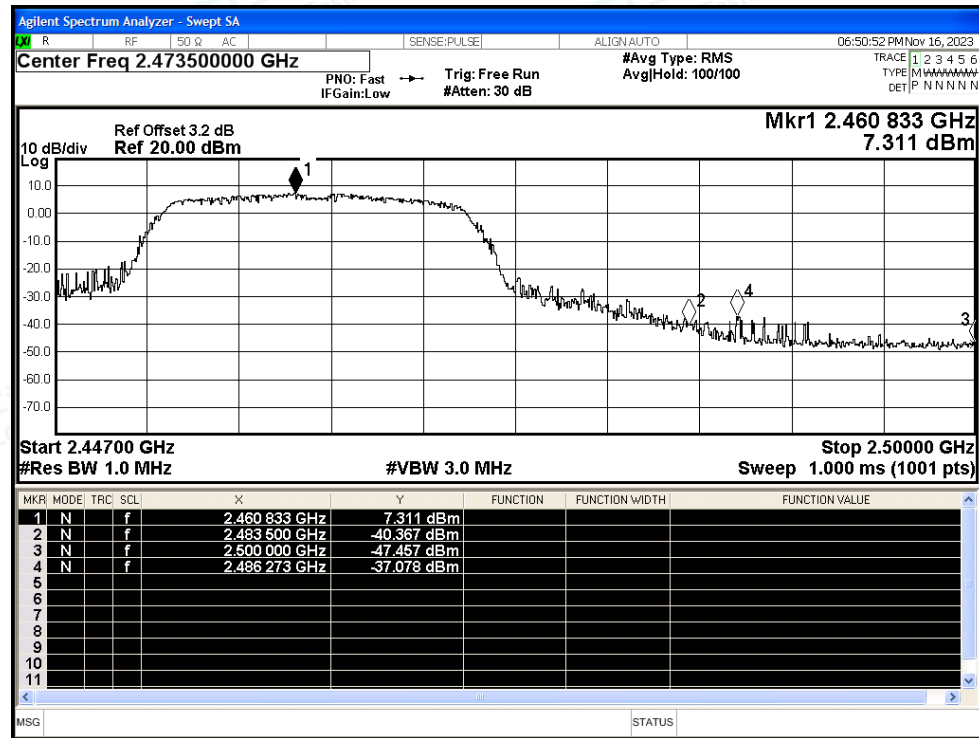
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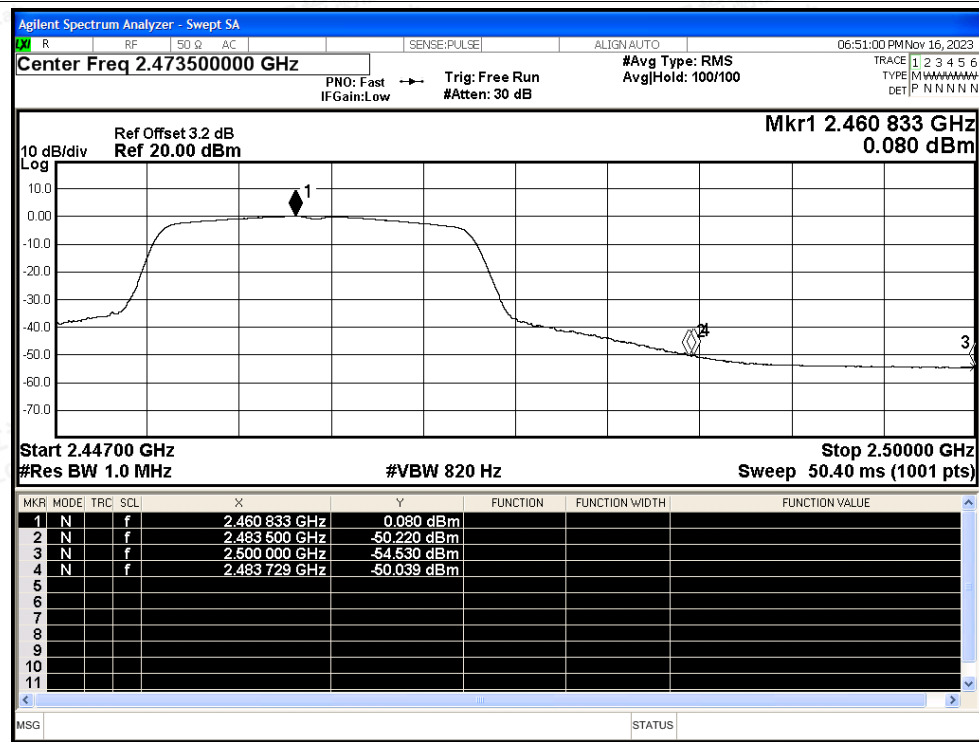
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## Restrict Band NVNT n20 2462MHz Ant1 Peak



## Restrict Band NVNT n20 2462MHz Ant1 Average



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