



RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Portable power station

Test Model: P1000PLUS

Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 23.8 ° C  |
| Relative Humidity: | 52.3%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Jay Luo   |
| 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    | 8.068                 | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2437            | Ant1    | 8.004                 | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2462            | Ant1    | 8.034                 | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2412            | Ant1    | 16.078                | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2437            | Ant1    | 16.33                 | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2462            | Ant1    | 16.33                 | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 16.951                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 17.24                 | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 17.134                | $\geq 0.5$                  | Pass    |

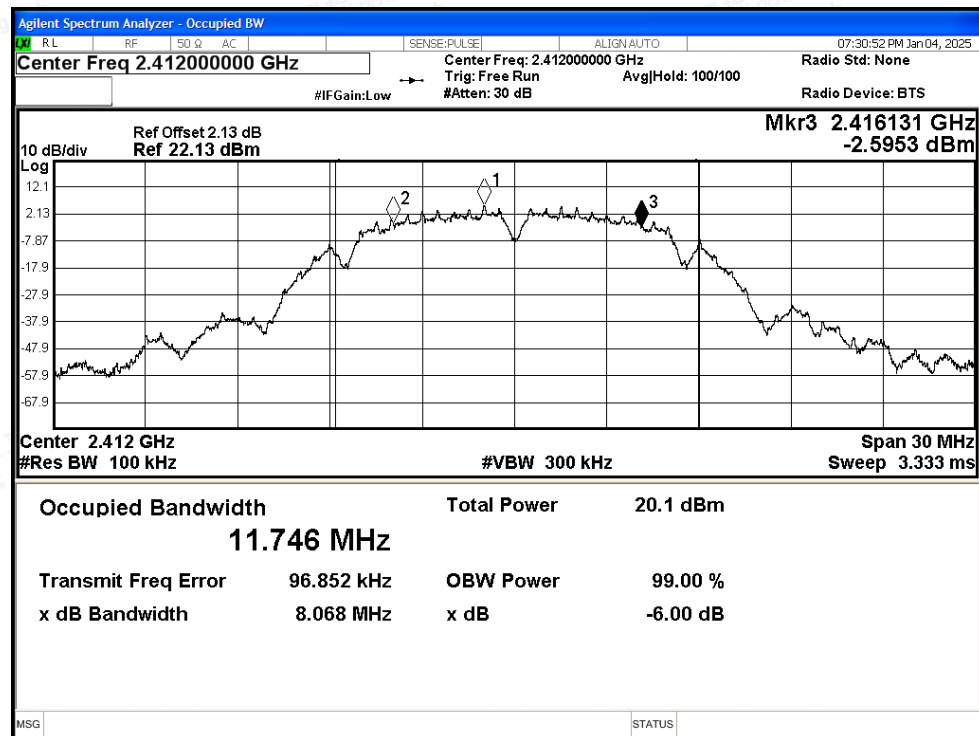


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## Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1

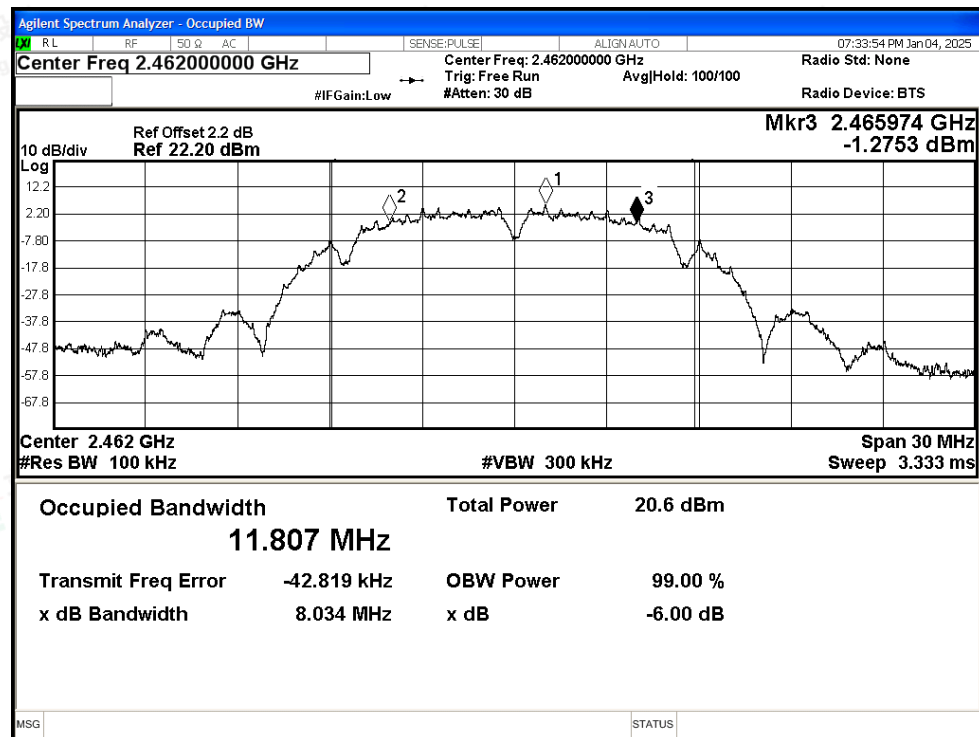


-6dB Bandwidth NVNT b 2437MHz Ant1

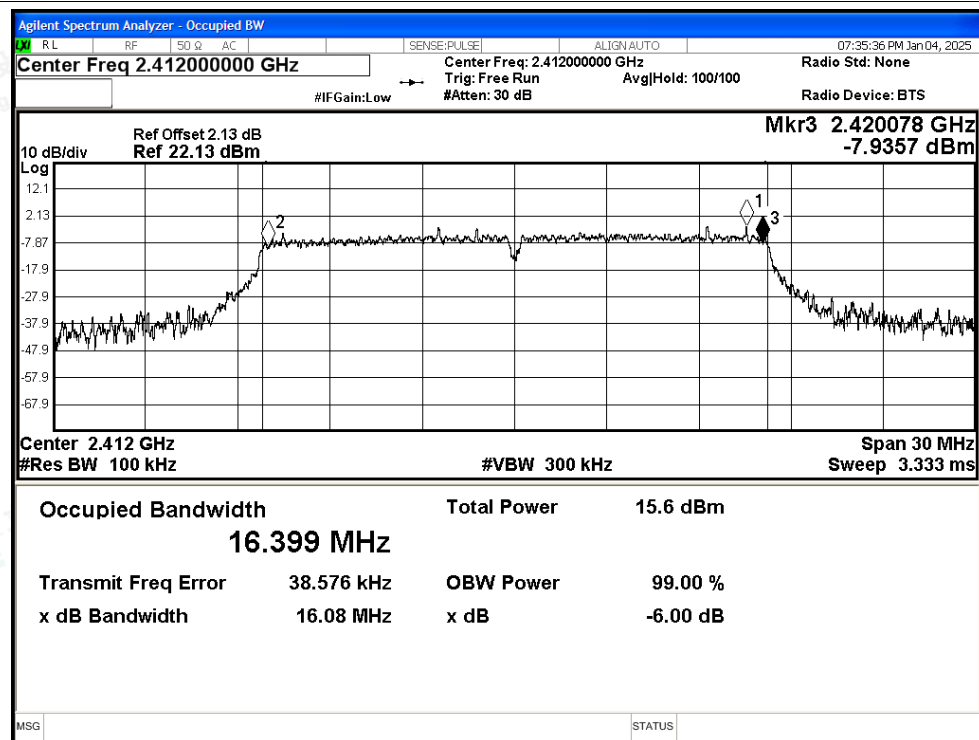




## -6dB Bandwidth NVNT b 2462MHz Ant1

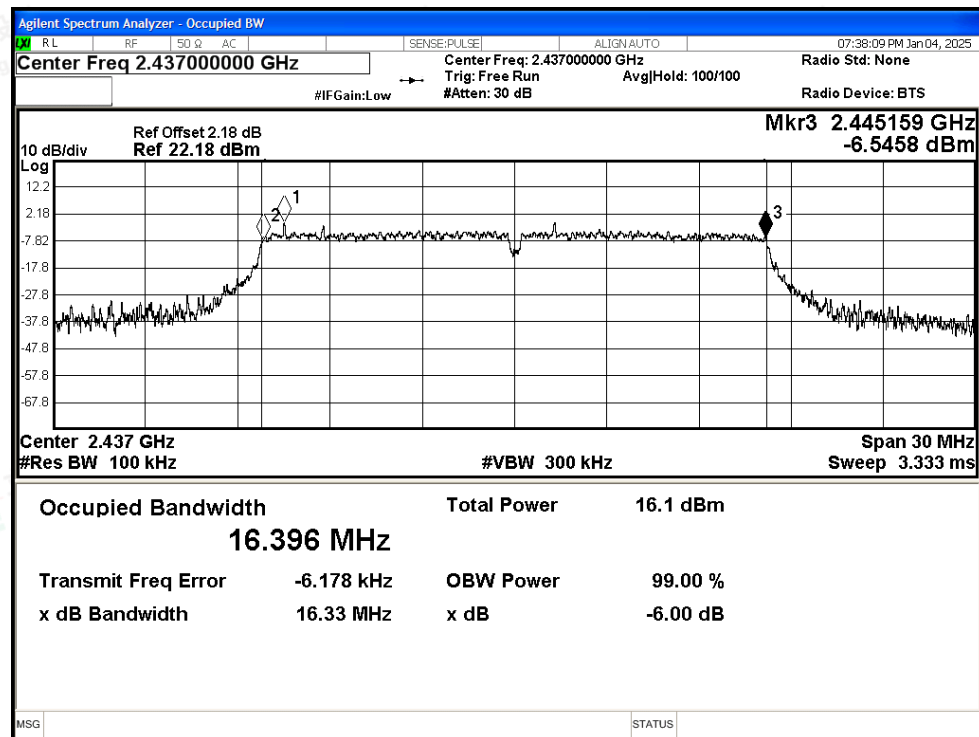


## -6dB Bandwidth NVNT g 2412MHz Ant1

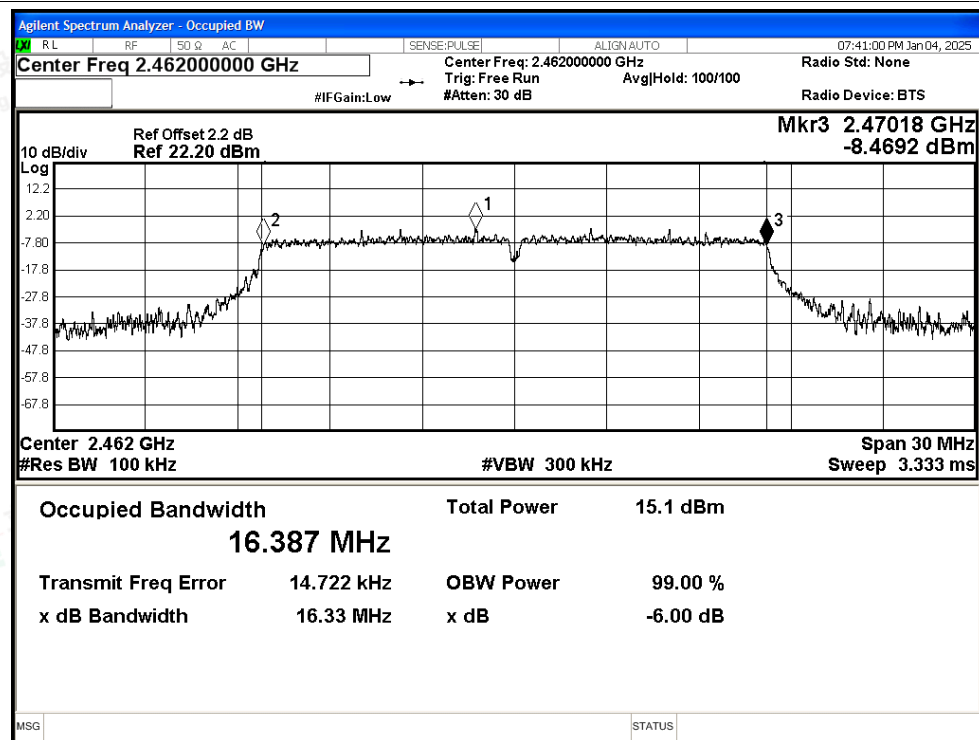




## -6dB Bandwidth NVNT g 2437MHz Ant1

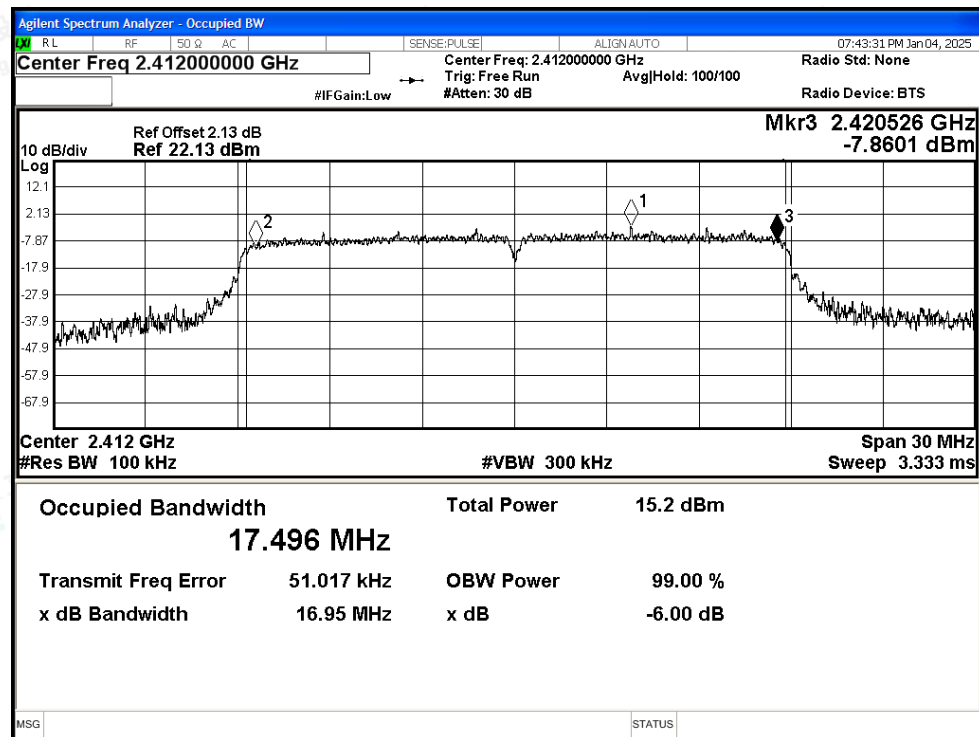


## -6dB Bandwidth NVNT g 2462MHz Ant1

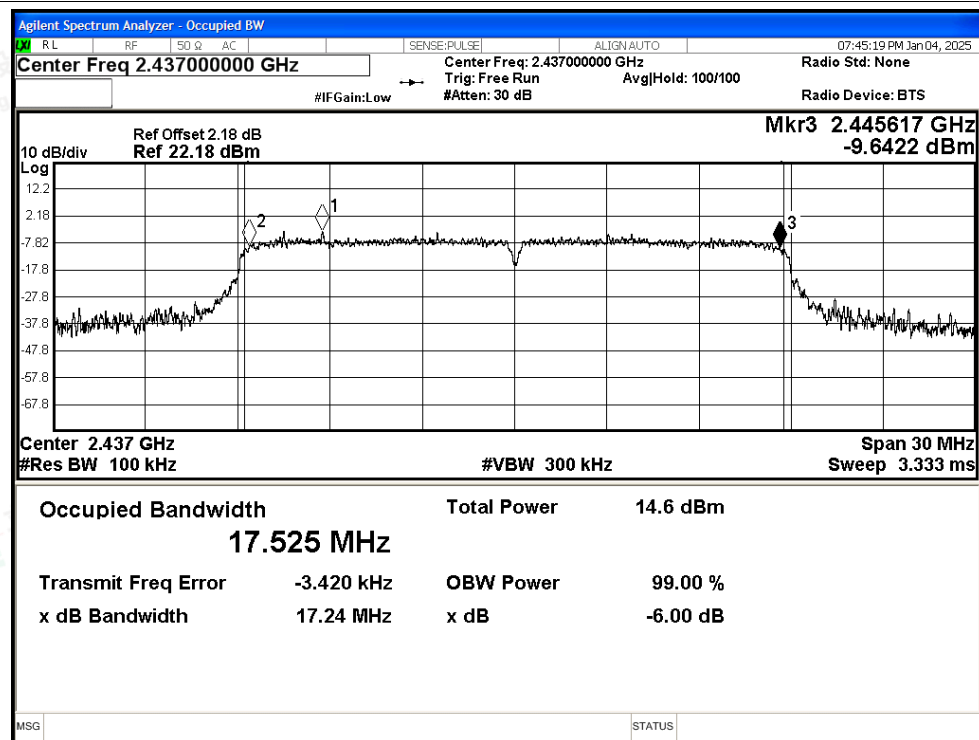


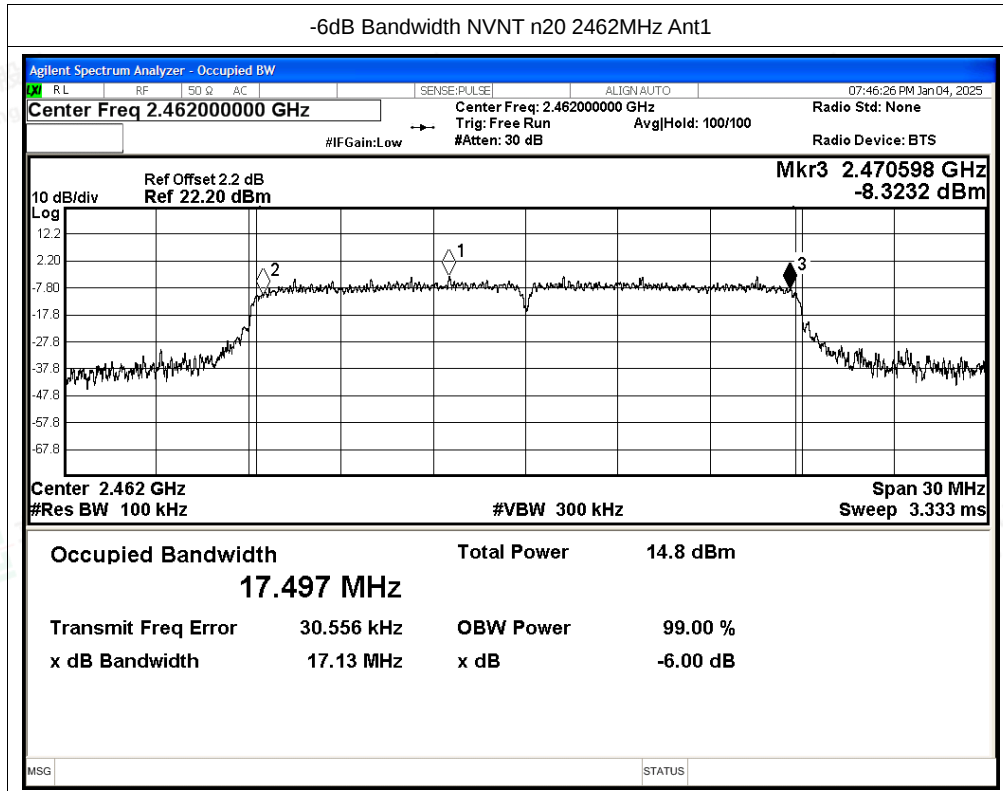


## -6dB Bandwidth NVNT n20 2412MHz Ant1



## -6dB Bandwidth NVNT n20 2437MHz Ant1







## B.2 Maximum Peak Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | 15.06                 | 30          | Pass    |
| NVNT      | b    | 2437            | Ant1    | 15.58                 | 30          | Pass    |
| NVNT      | b    | 2462            | Ant1    | 15.51                 | 30          | Pass    |
| NVNT      | g    | 2412            | Ant1    | 14.38                 | 30          | Pass    |
| NVNT      | g    | 2437            | Ant1    | 15.02                 | 30          | Pass    |
| NVNT      | g    | 2462            | Ant1    | 13.91                 | 30          | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 13.81                 | 30          | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 13.3                  | 30          | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 13.33                 | 30          | Pass    |



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### B.3 Maximum Power Spectral Density Level

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|------|-----------------|---------|--------------------------|------------------|---------|
| NVNT      | b    | 2412            | Ant1    | -8.9                     | 8                | Pass    |
| NVNT      | b    | 2437            | Ant1    | -9                       | 8                | Pass    |
| NVNT      | b    | 2462            | Ant1    | -7.73                    | 8                | Pass    |
| NVNT      | g    | 2412            | Ant1    | -16.02                   | 8                | Pass    |
| NVNT      | g    | 2437            | Ant1    | -15.87                   | 8                | Pass    |
| NVNT      | g    | 2462            | Ant1    | -16.7                    | 8                | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -16.05                   | 8                | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -16.91                   | 8                | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -16.43                   | 8                | Pass    |

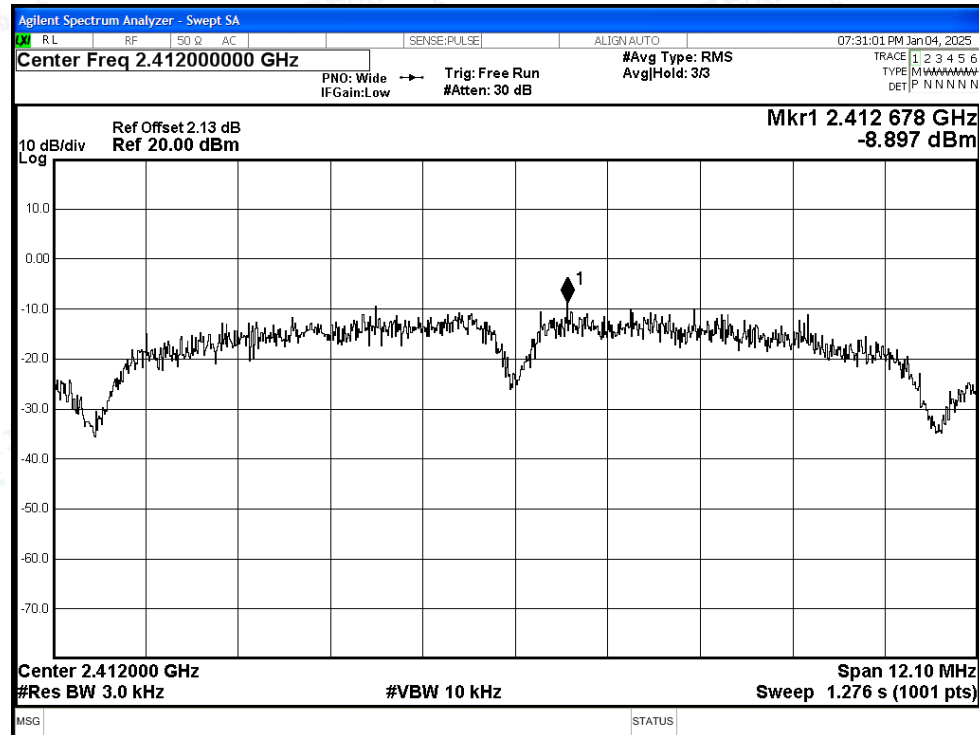


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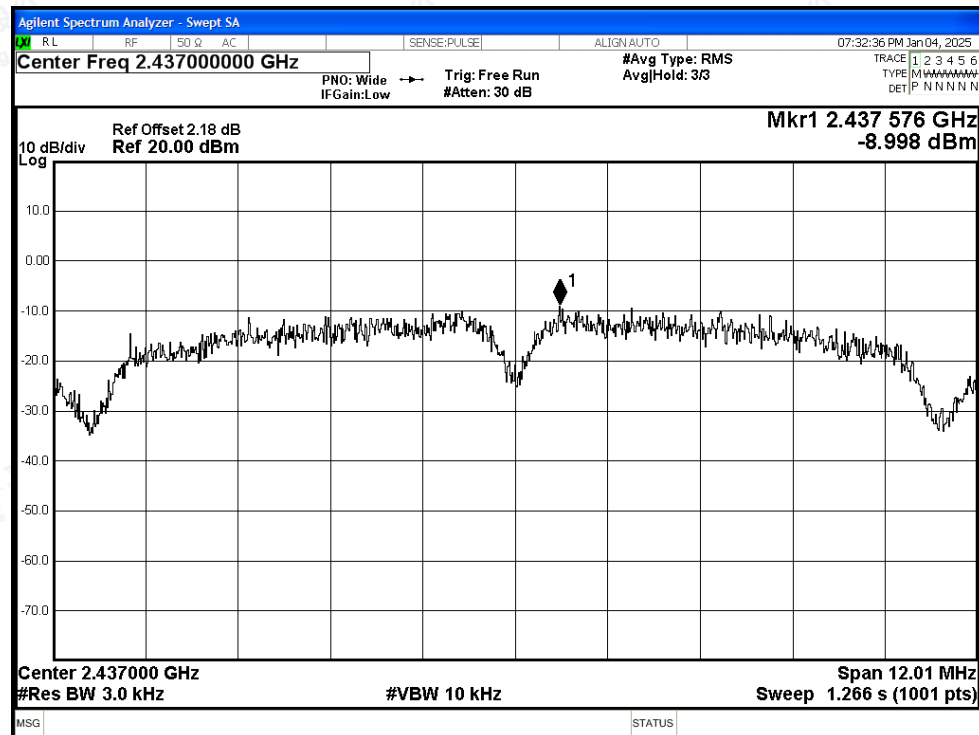


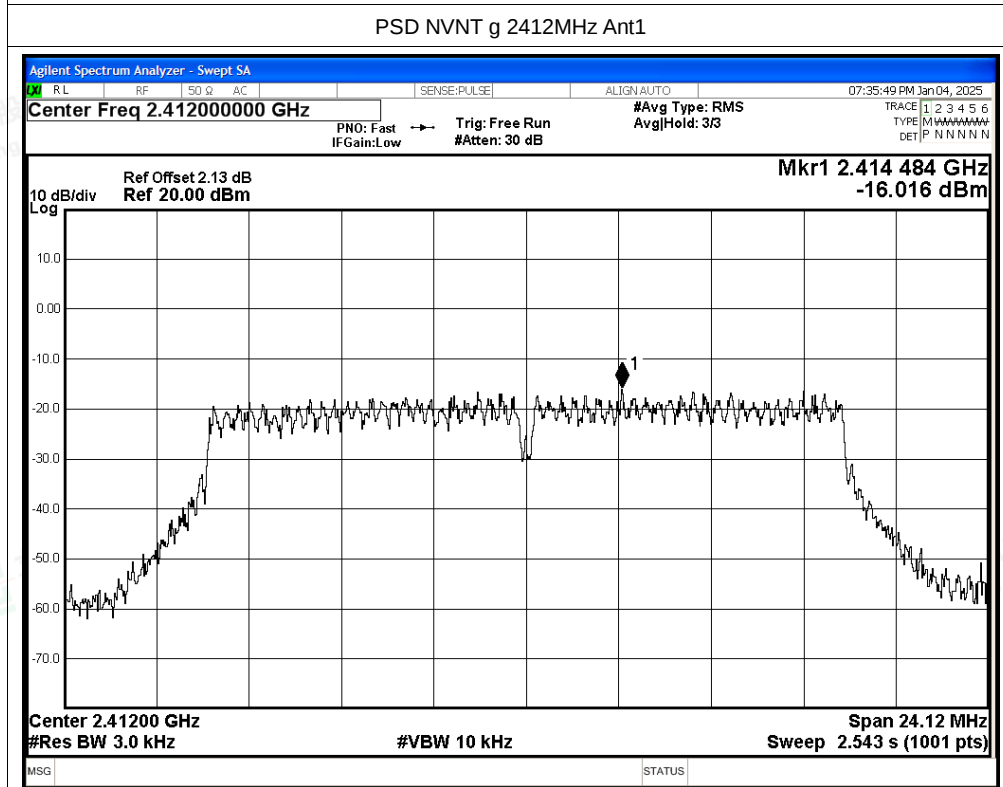
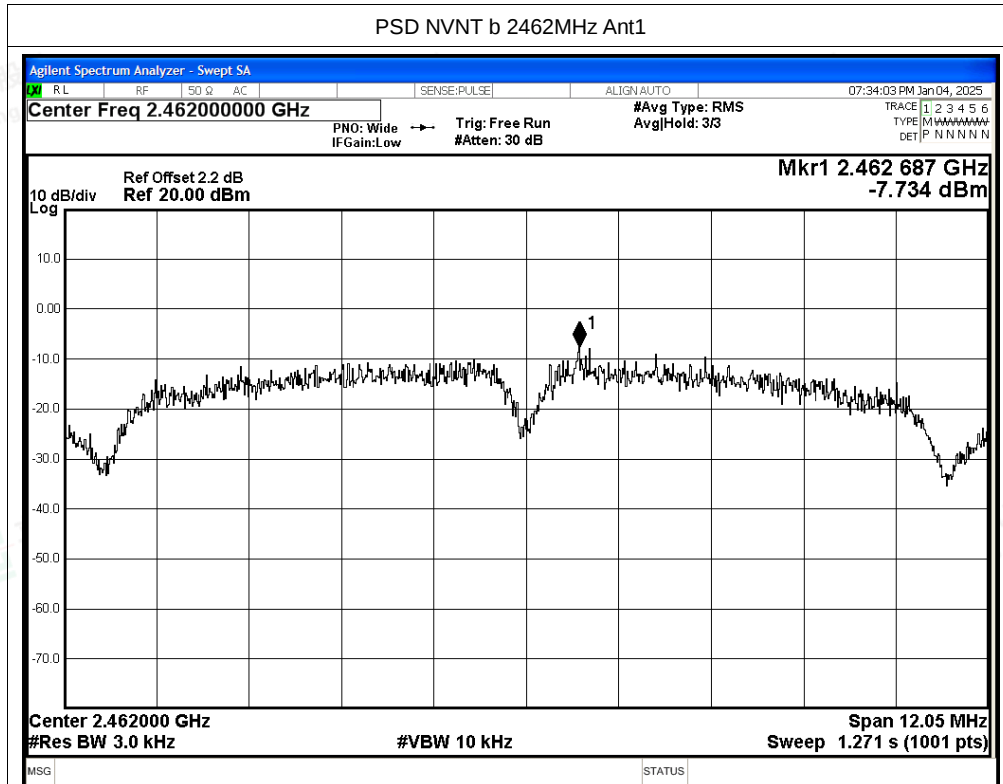
## Test Graphs

## PSD NVNT b 2412MHz Ant1



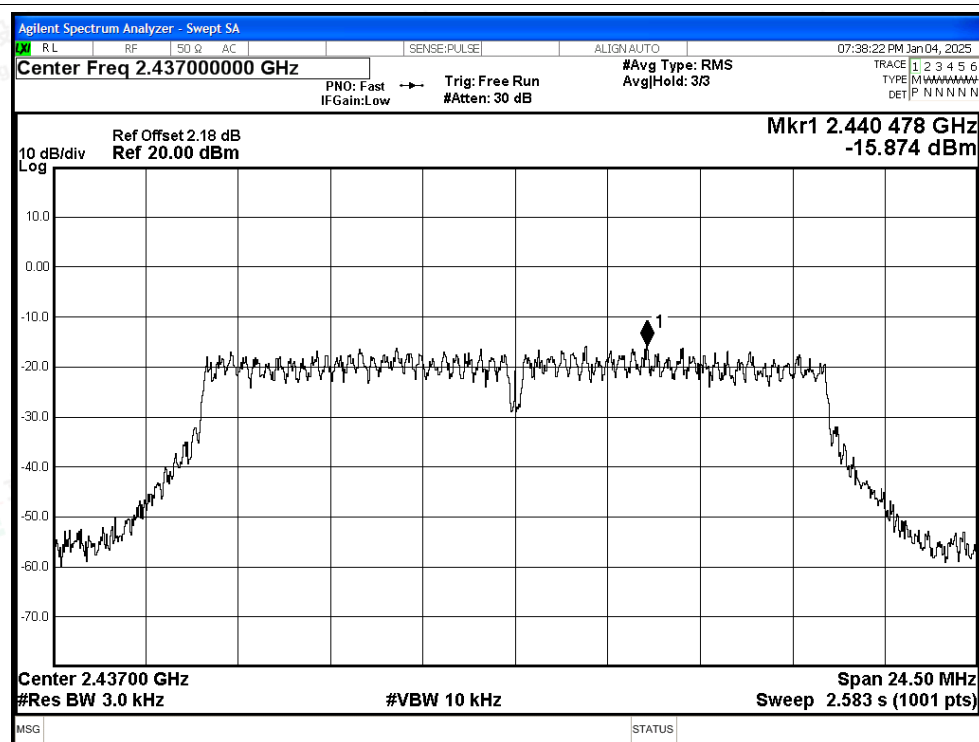
## PSD NVNT b 2437MHz Ant1



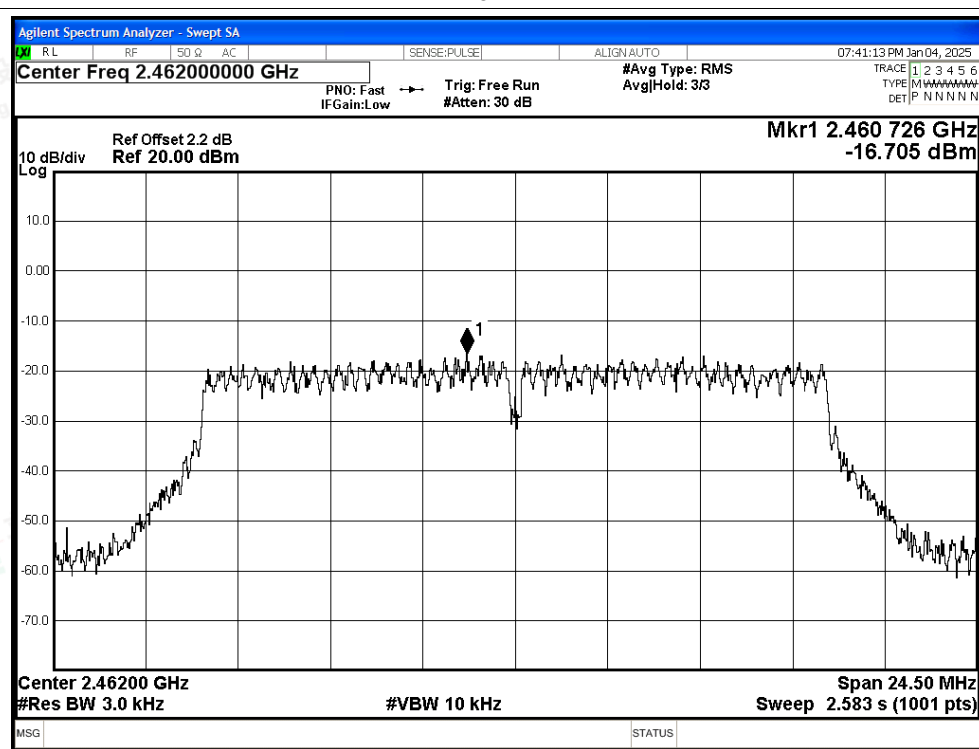


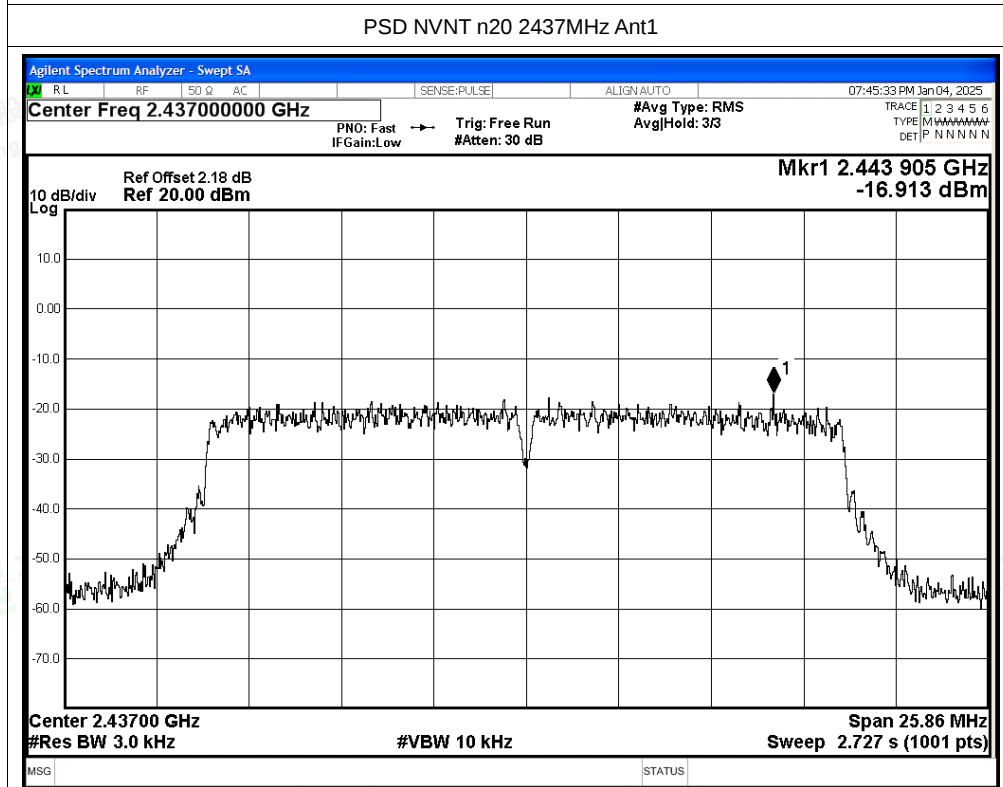
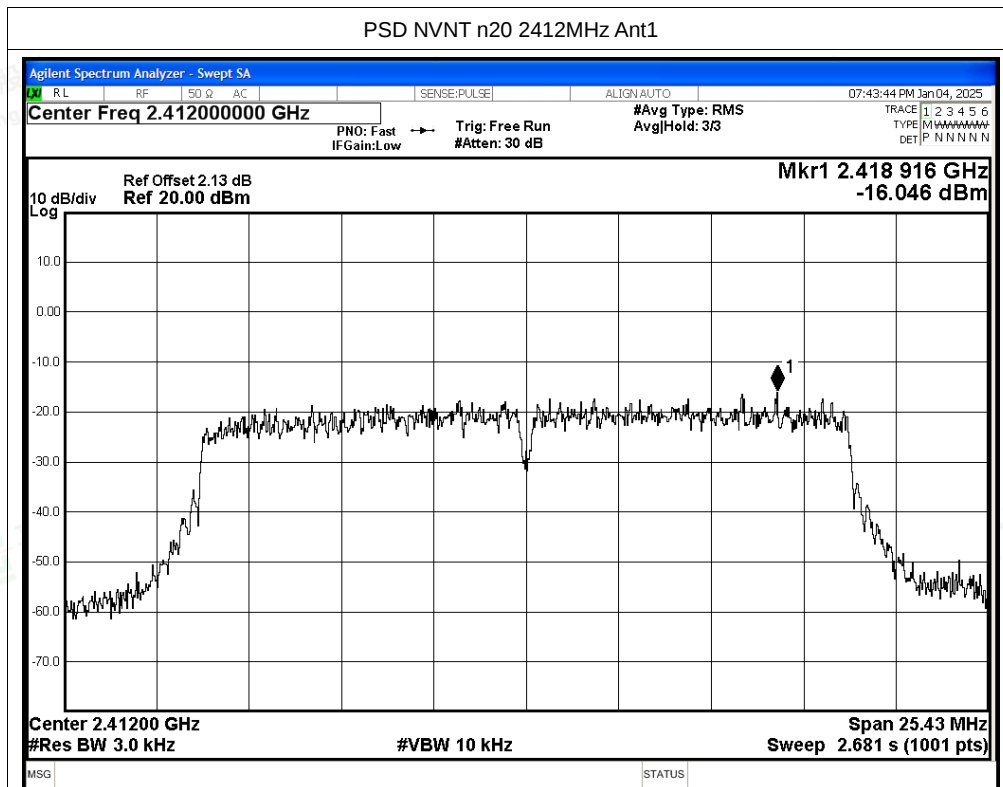


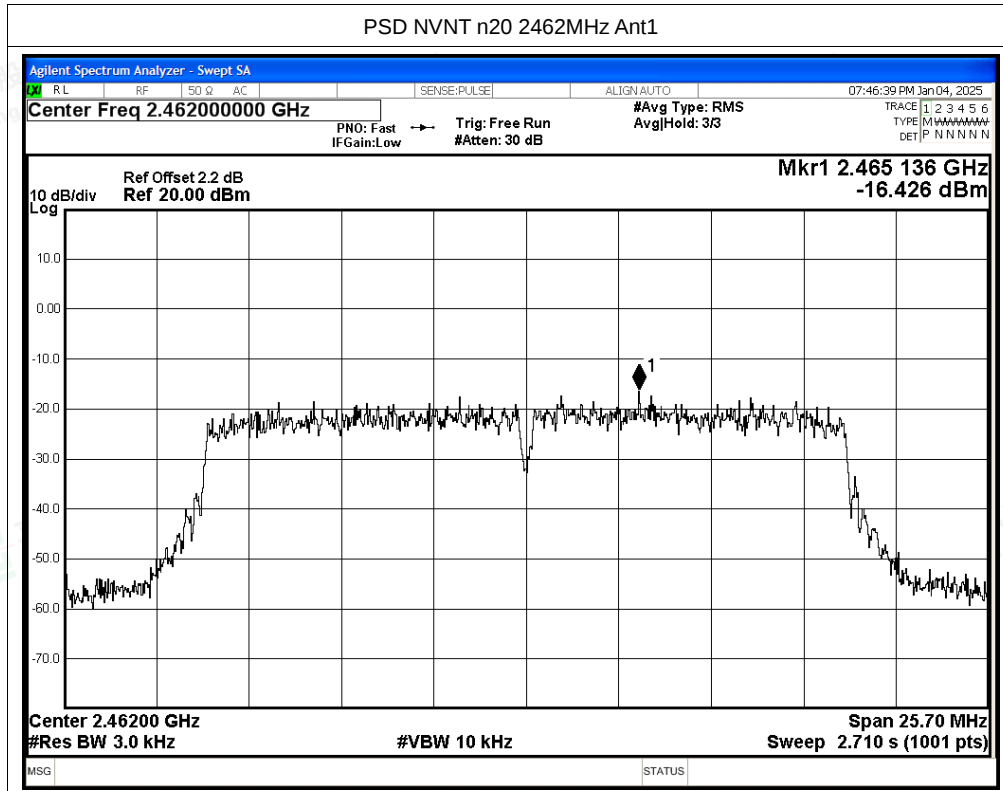
PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1









## B.4 Band Edge

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -49.12          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -57.59          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -33.02          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -42.9           | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -31.21          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -39.89          | -20         | Pass    |



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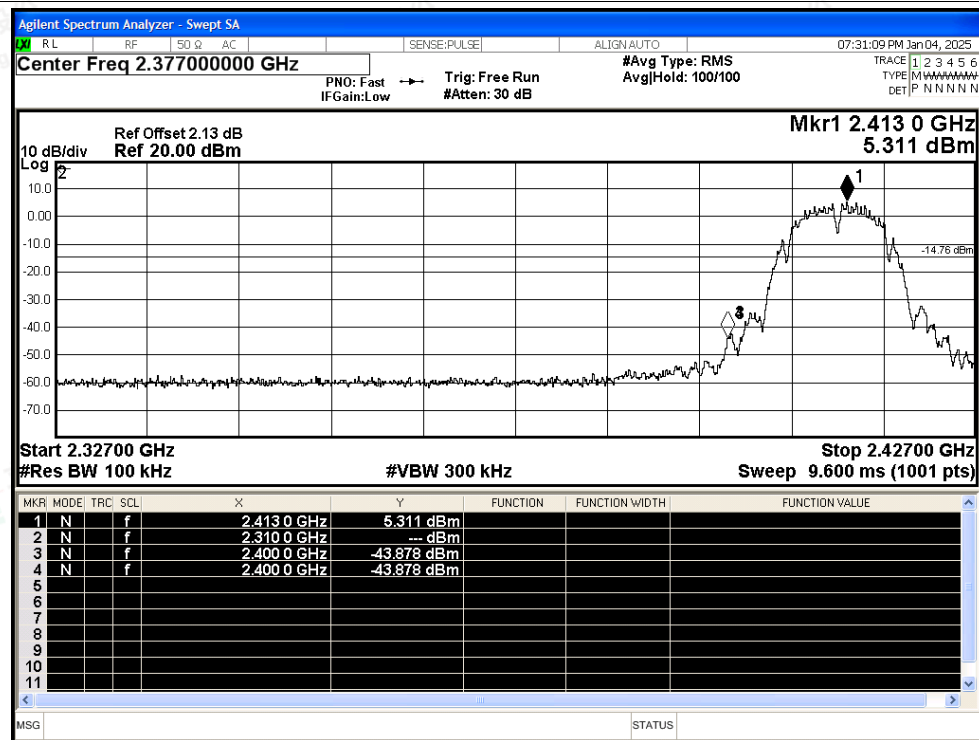


## Test Graphs

## Band Edge NVNT b 2412MHz Ant1 Ref

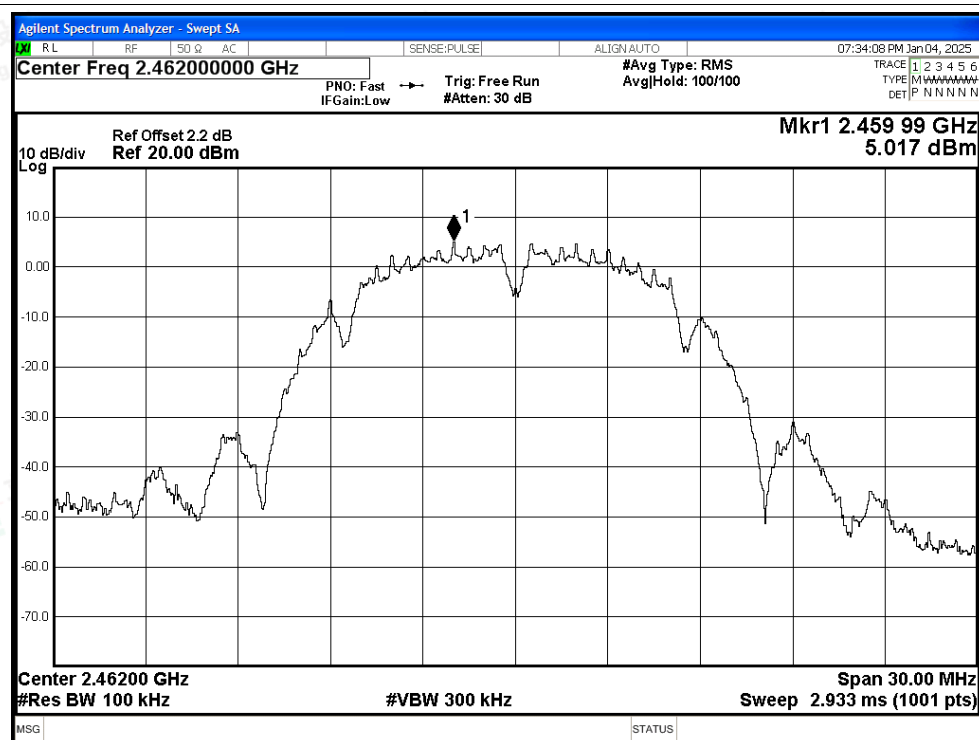


## Band Edge NVNT b 2412MHz Ant1 Emission

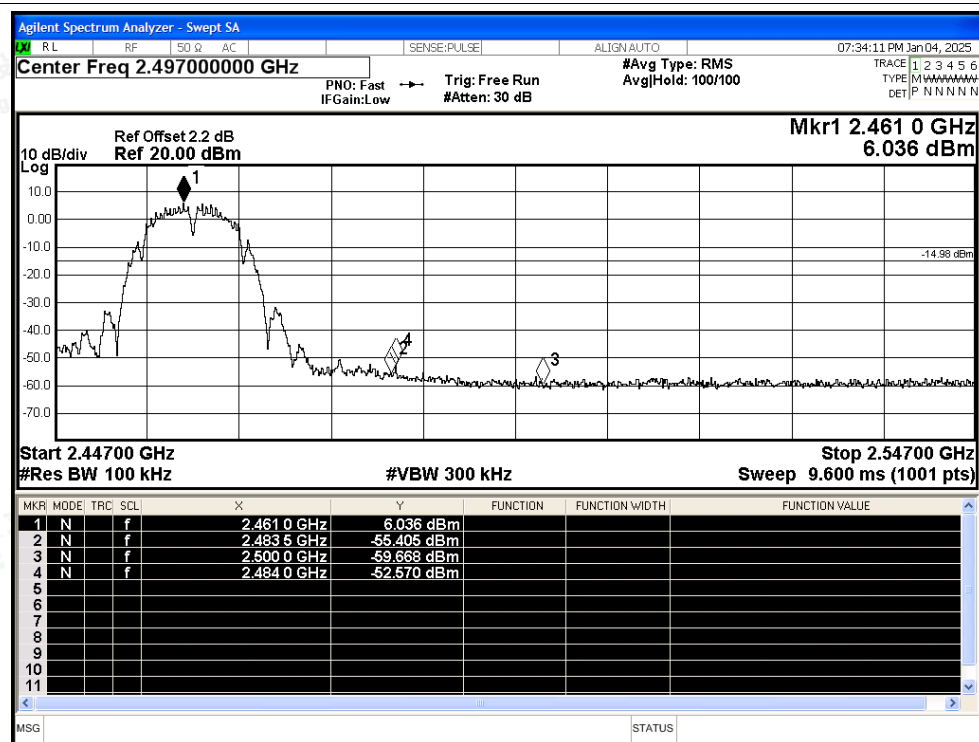




## Band Edge NVNT b 2462MHz Ant1 Ref

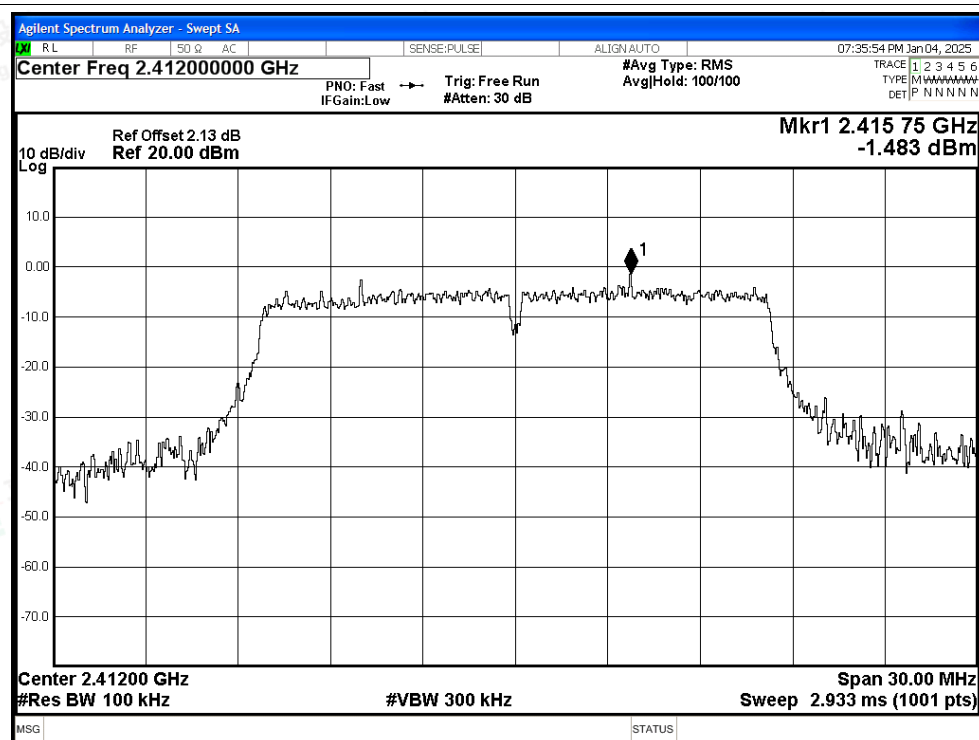


## Band Edge NVNT b 2462MHz Ant1 Emission

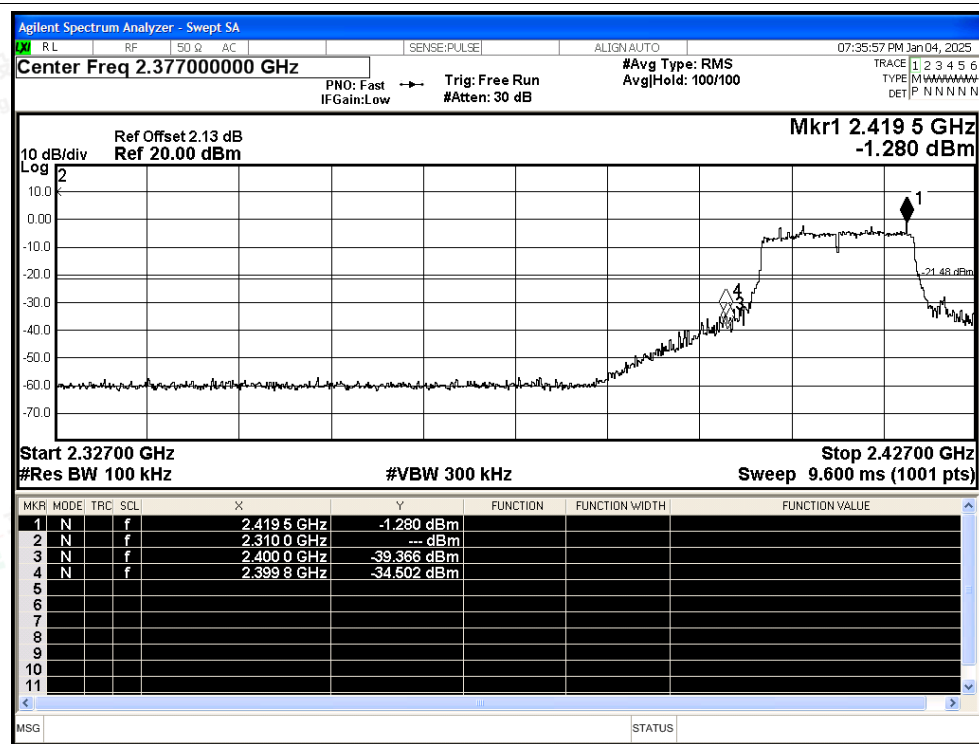




## Band Edge NVNT g 2412MHz Ant1 Ref

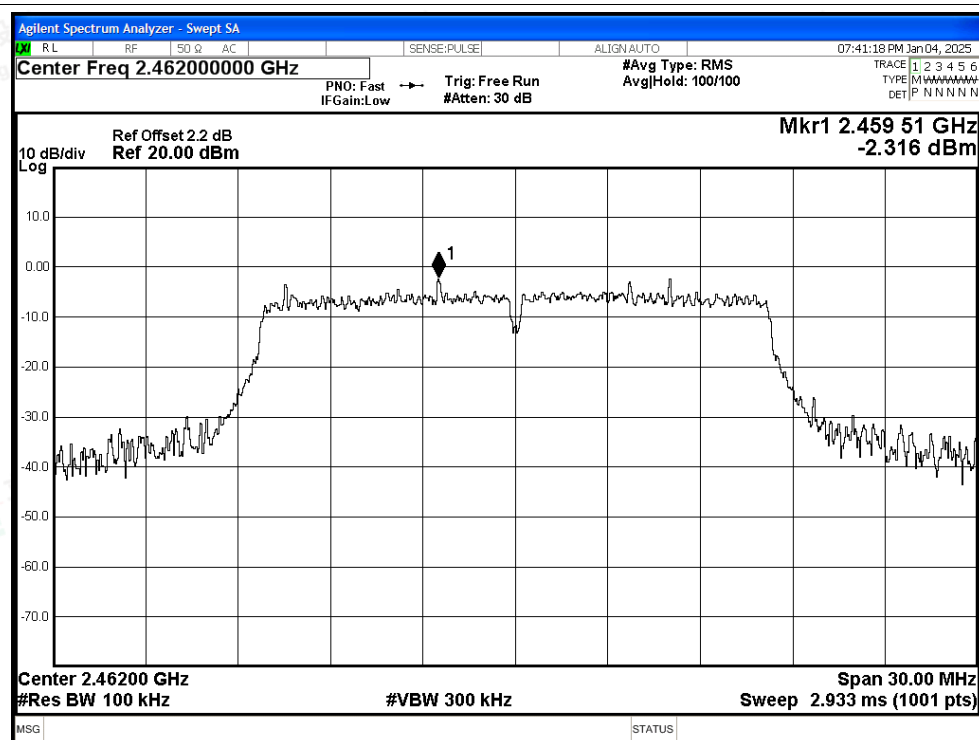


## Band Edge NVNT g 2412MHz Ant1 Emission

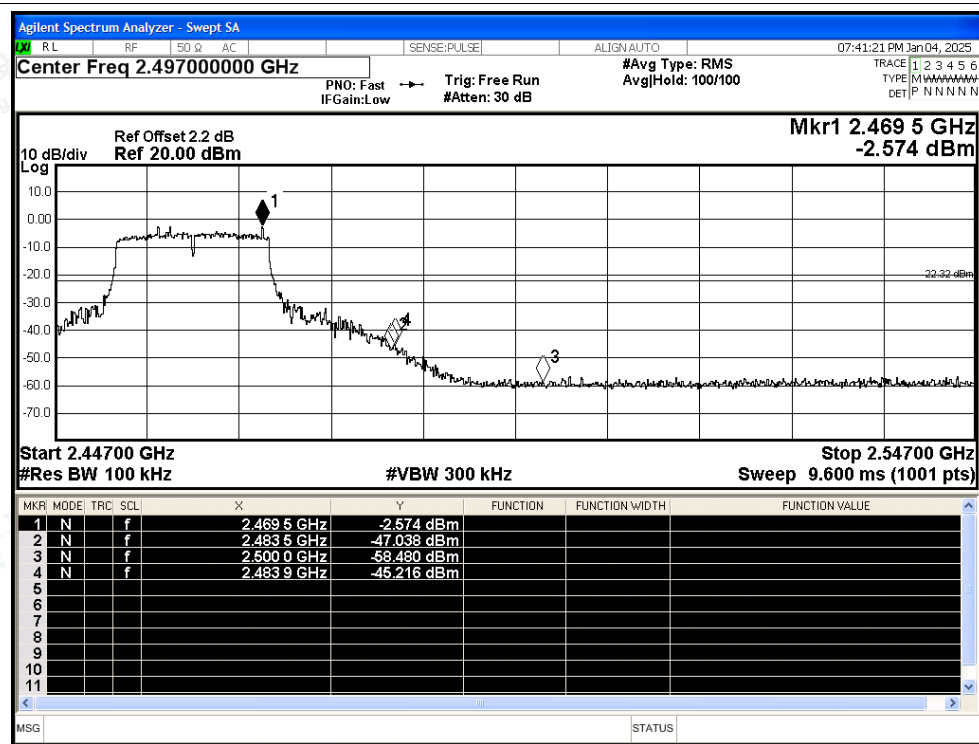


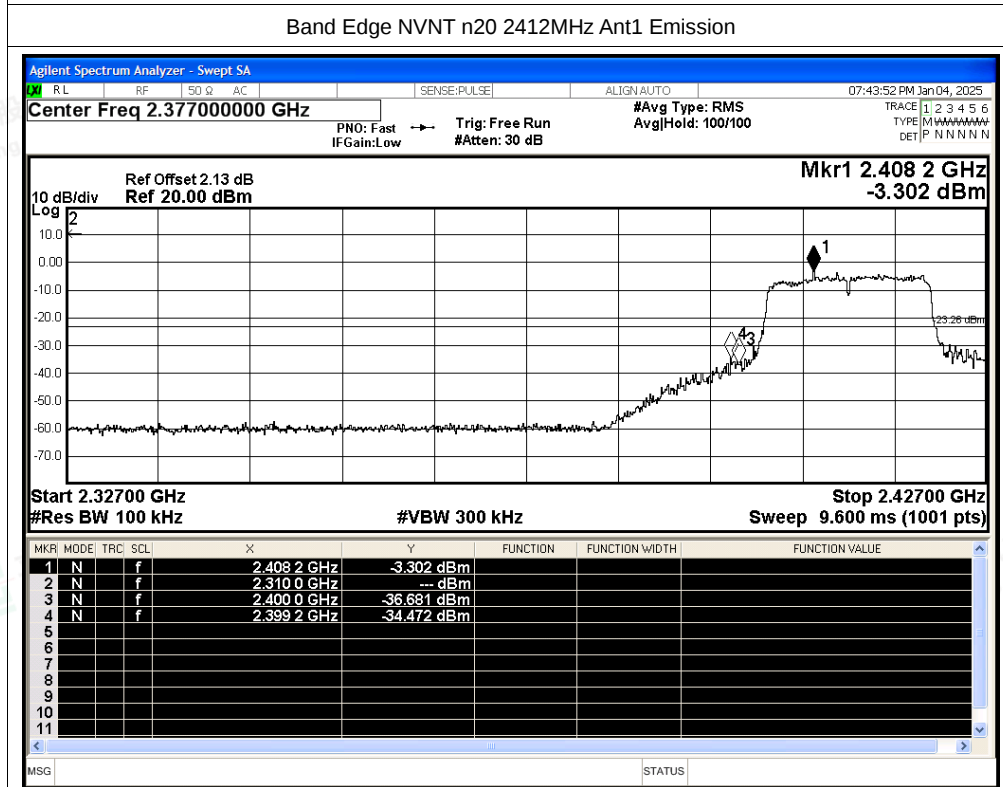
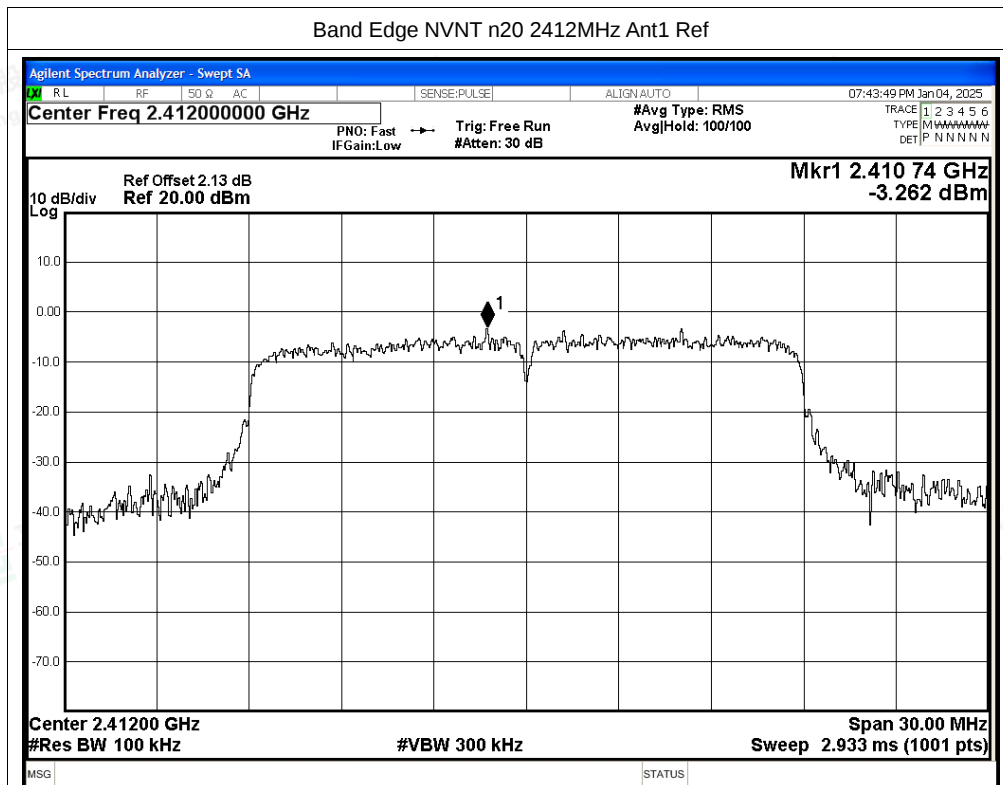


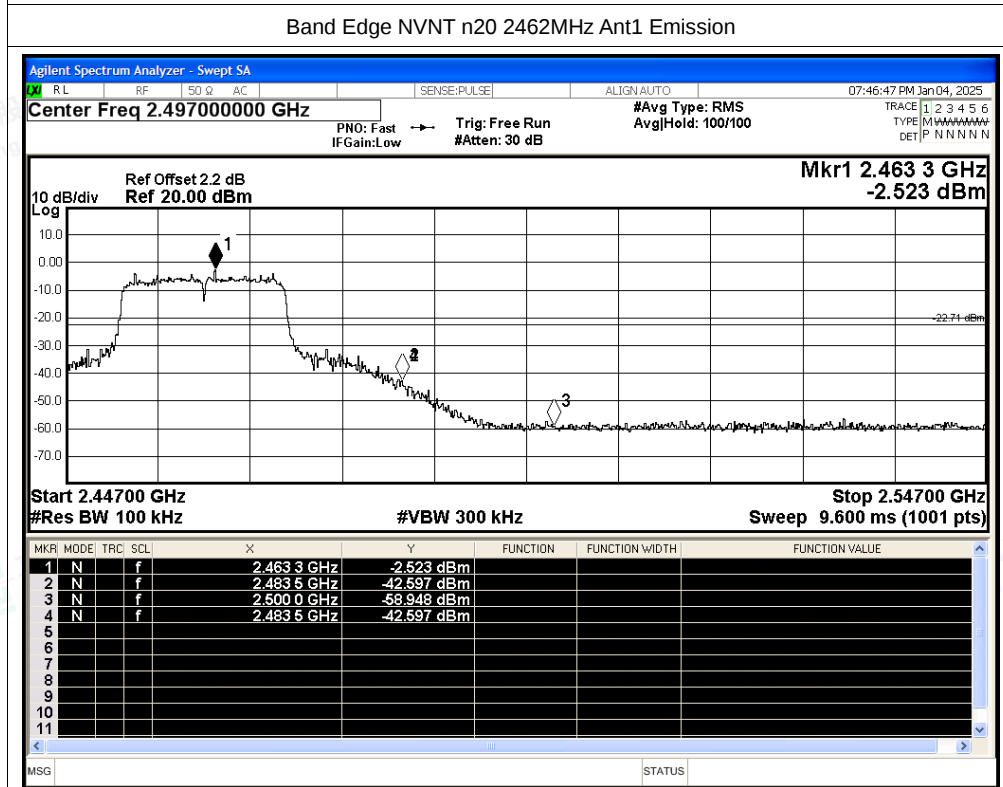
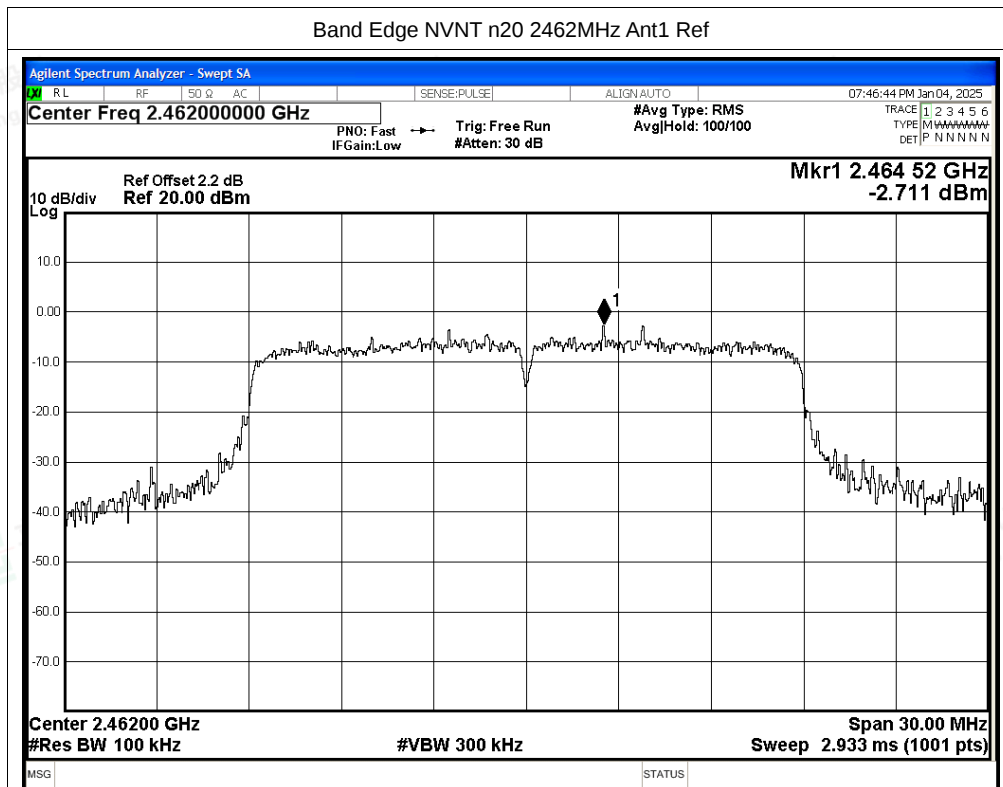
## Band Edge NVNT g 2462MHz Ant1 Ref



## Band Edge NVNT g 2462MHz Ant1 Emission









## B.5 Conducted RF Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -51.38          | -20         | Pass    |
| NVNT      | b    | 2437            | Ant1    | -52.41          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -52.46          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -42.15          | -20         | Pass    |
| NVNT      | g    | 2437            | Ant1    | -45.34          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -43.95          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -43.62          | -20         | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -42.24          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -41.73          | -20         | Pass    |



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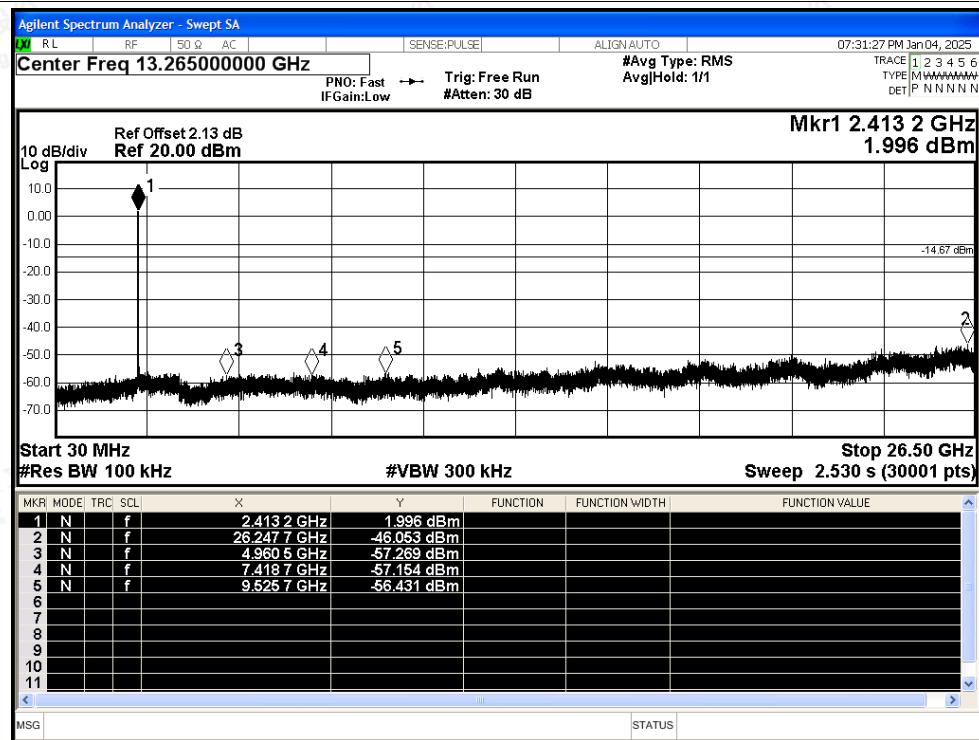


## Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref

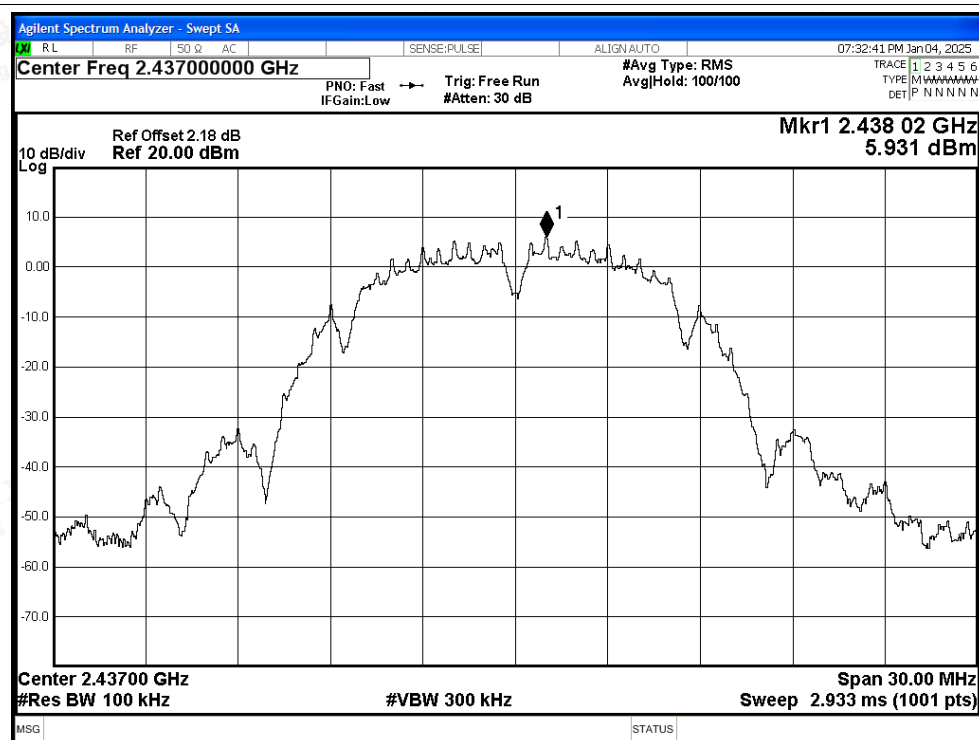


Tx. Spurious NVNT b 2412MHz Ant1 Emission

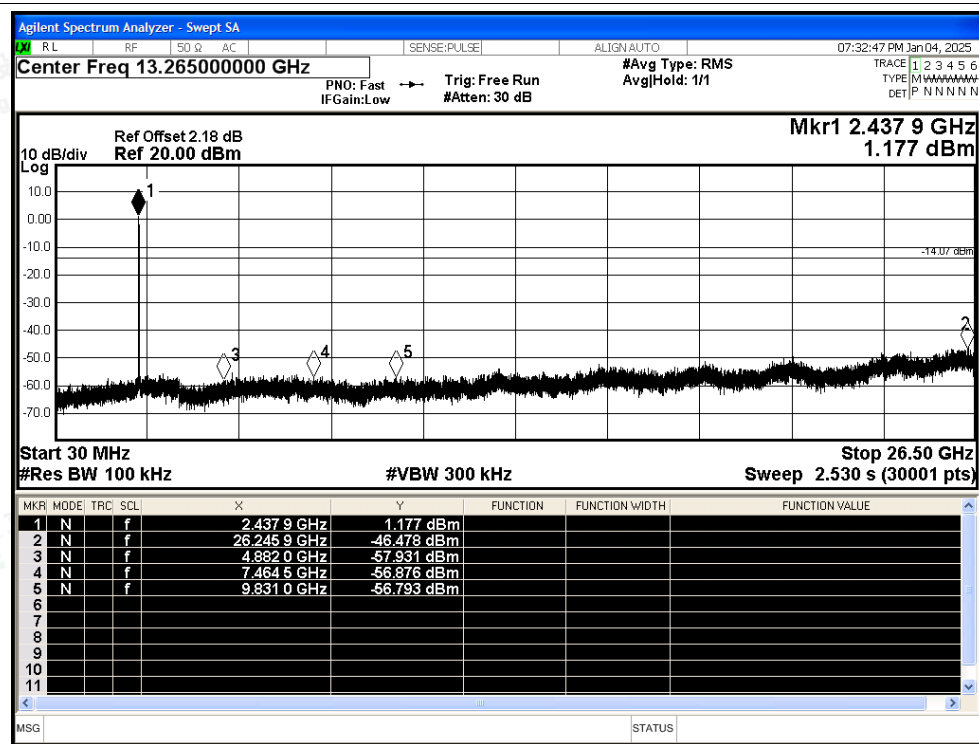




## Tx. Spurious NVNT b 2437MHz Ant1 Ref

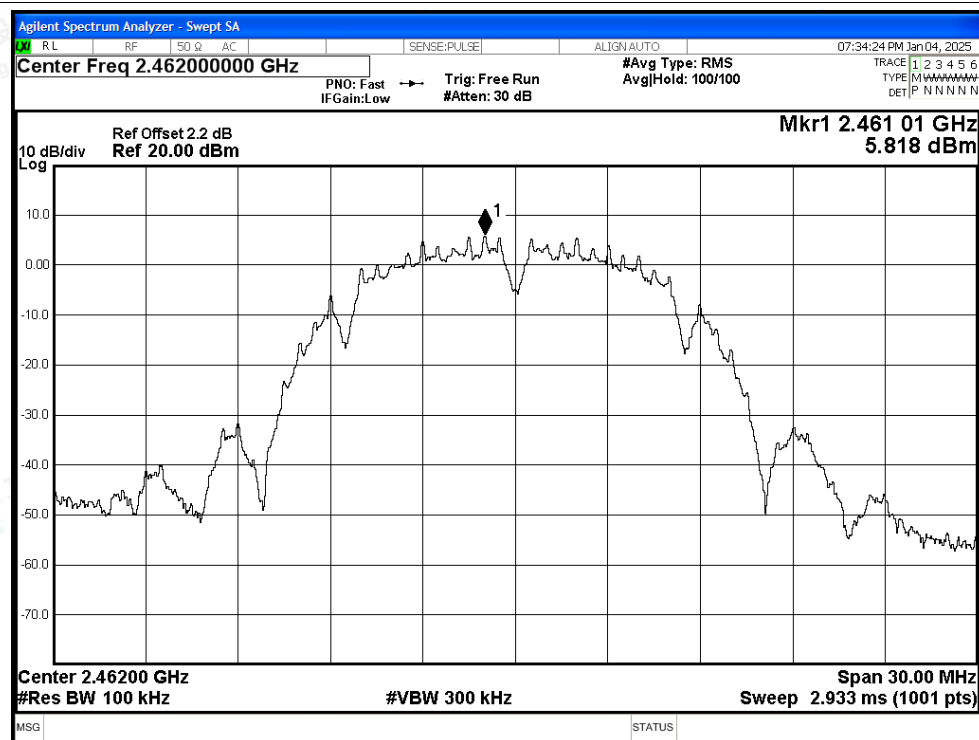


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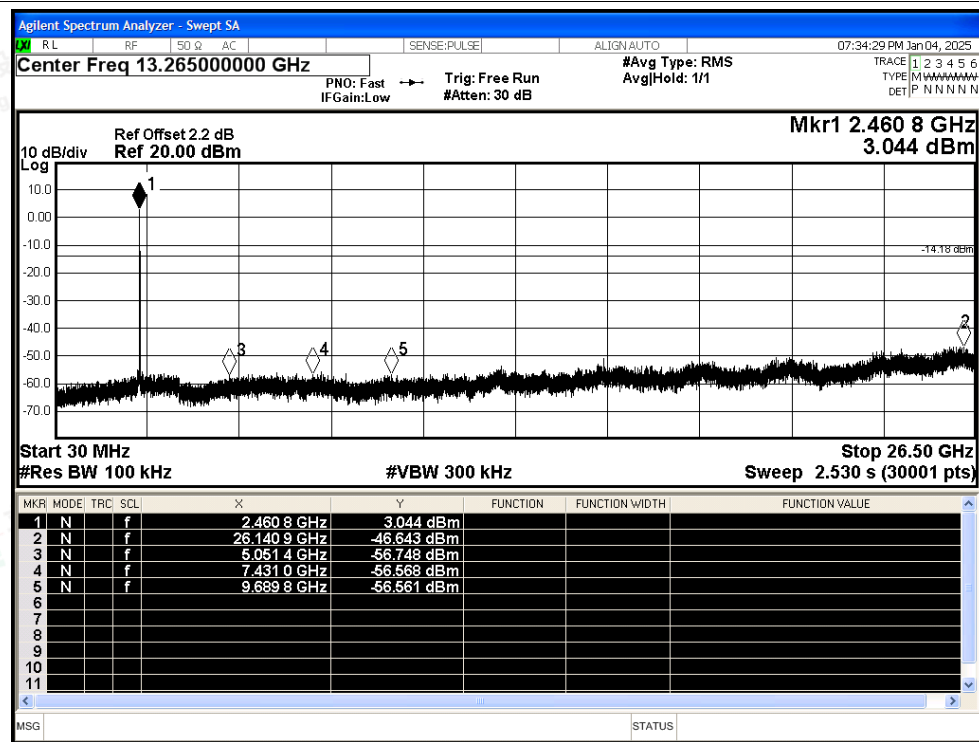




## Tx. Spurious NVNT b 2462MHz Ant1 Ref

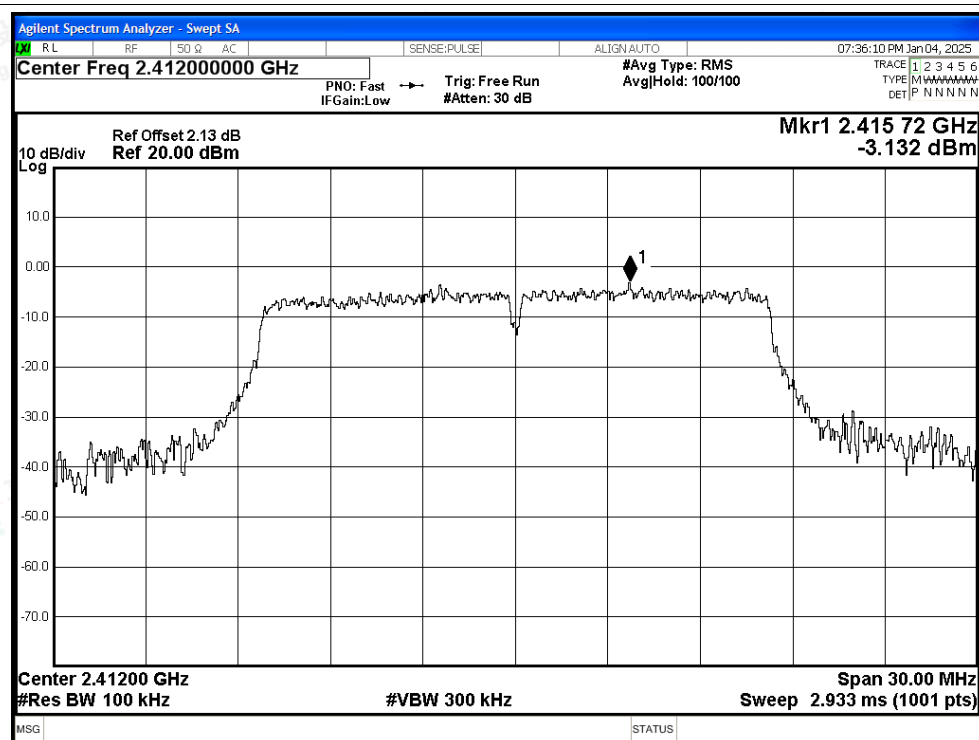


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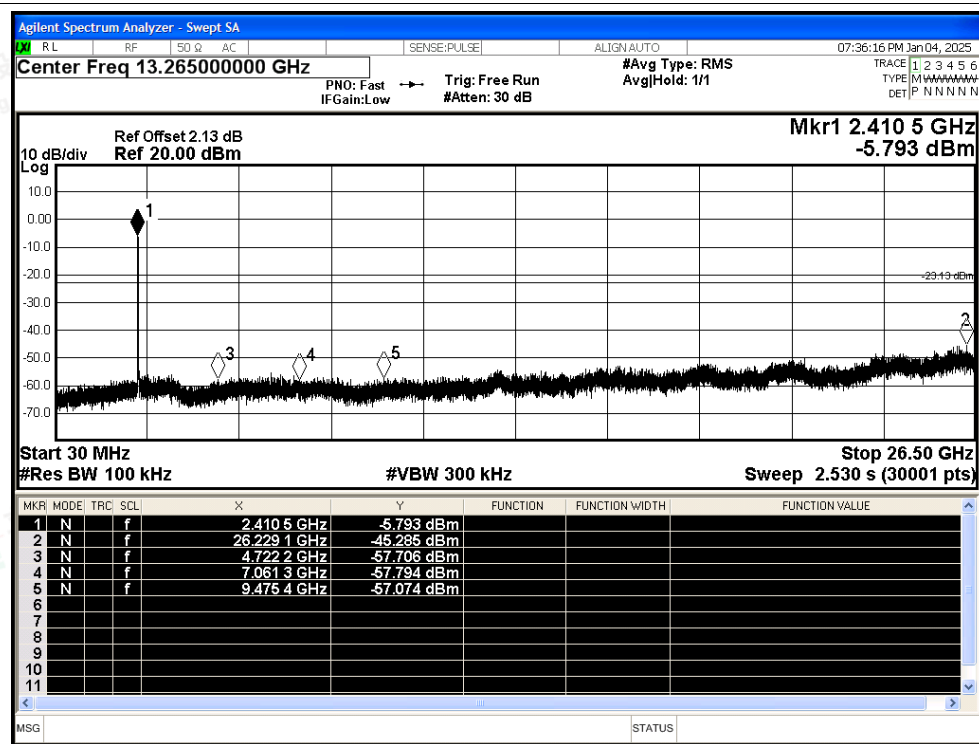




## Tx. Spurious NVNT g 2412MHz Ant1 Ref

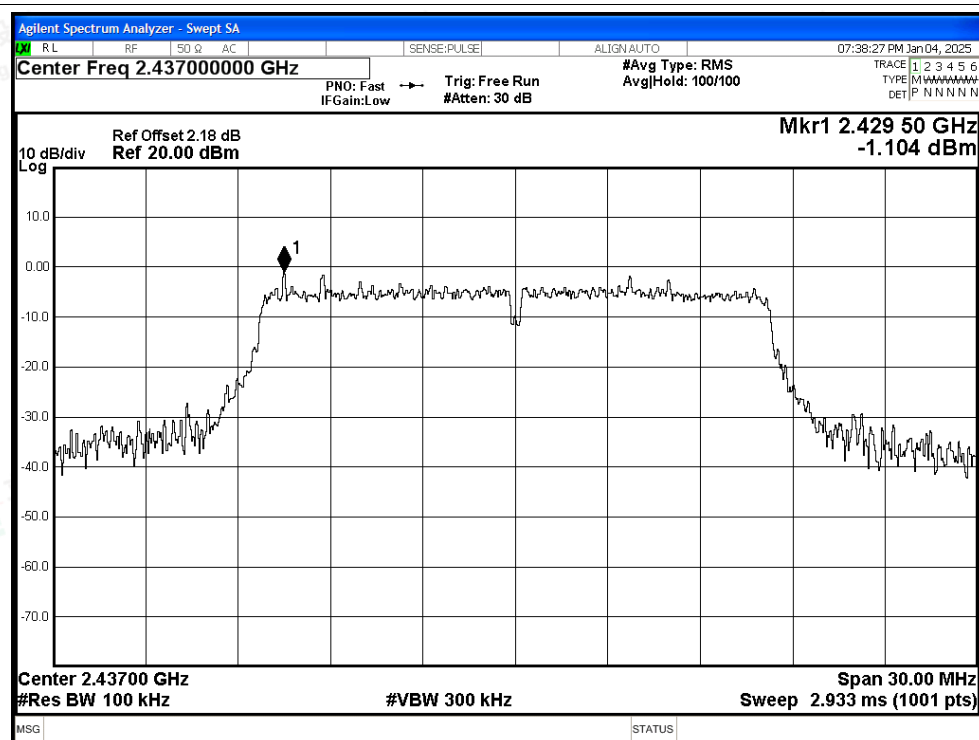


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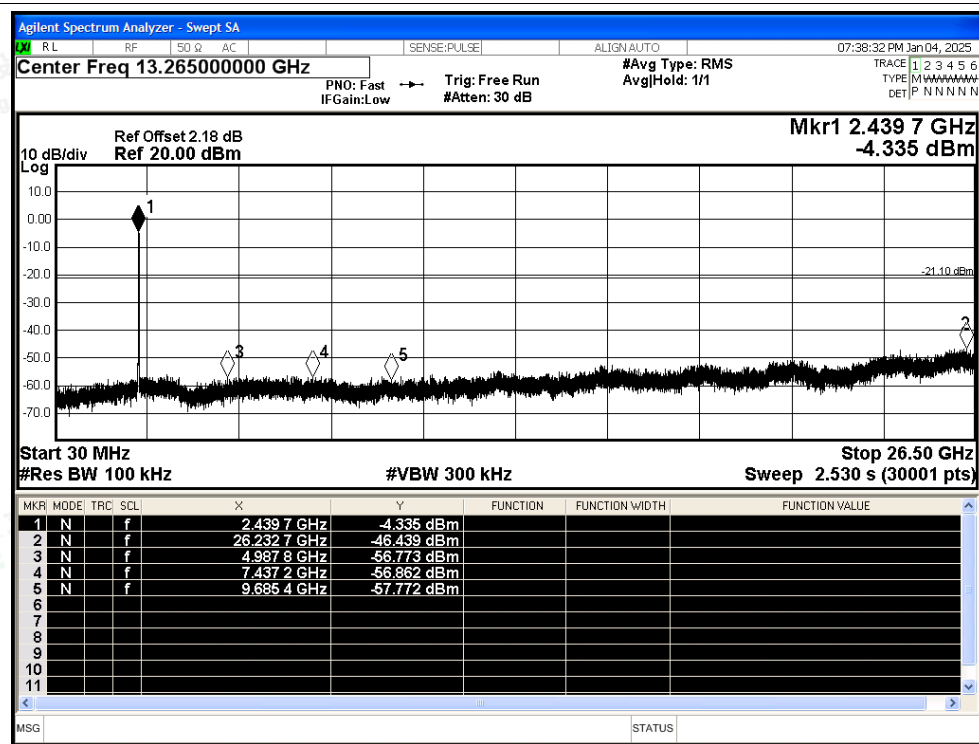




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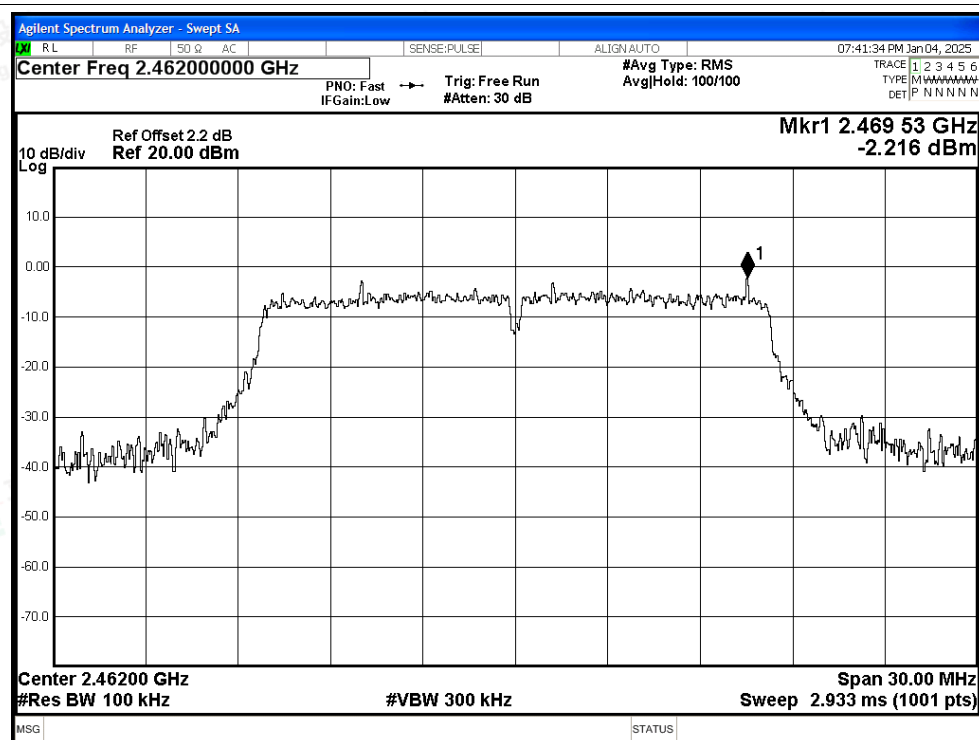


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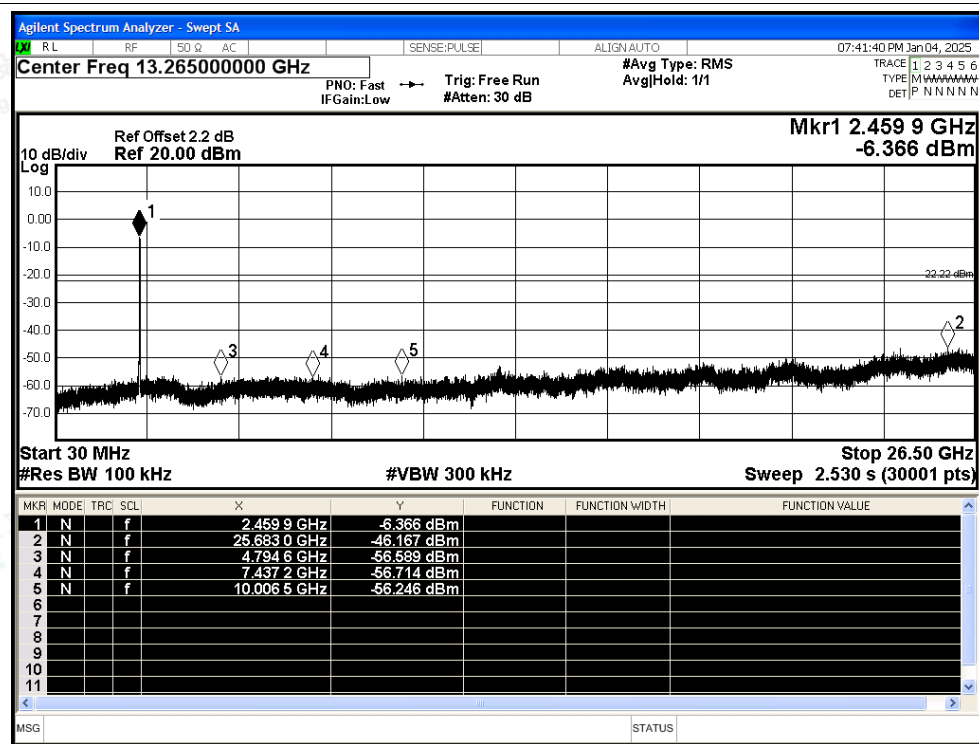




## Tx. Spurious NVNT g 2462MHz Ant1 Ref

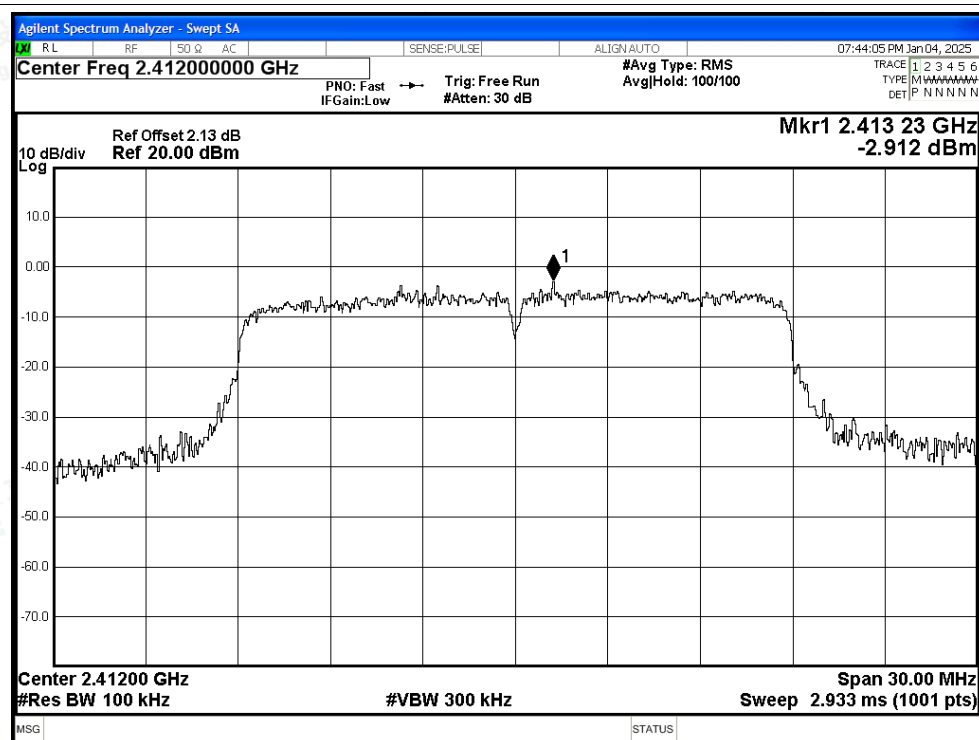


## Tx. Spurious NVNT g 2462MHz Ant1 Emission

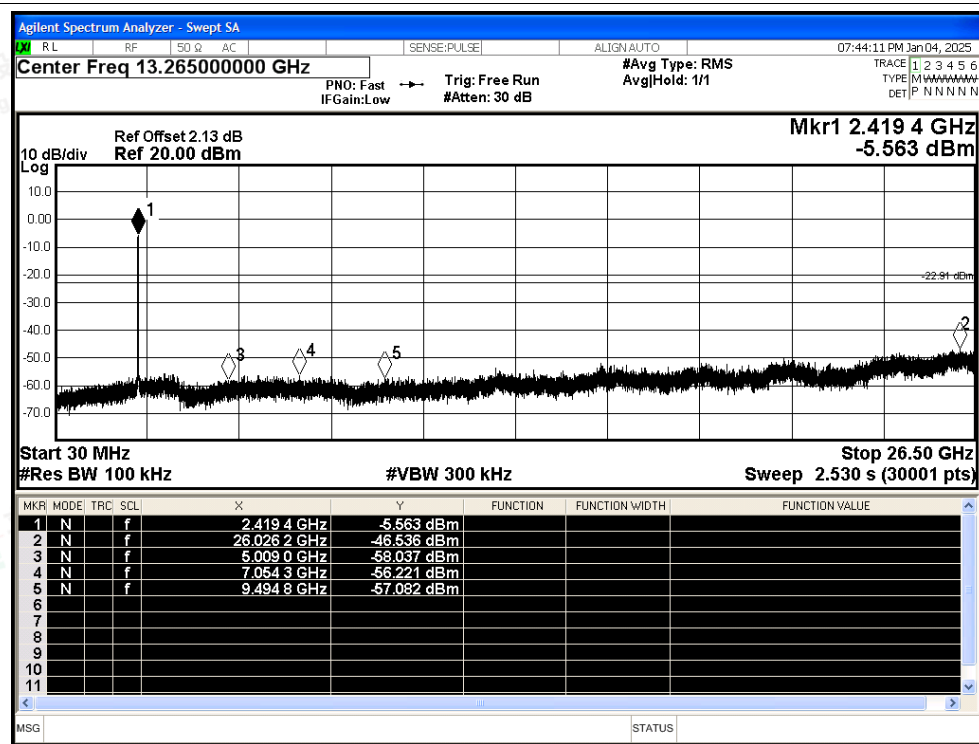




## Tx. Spurious NVNT n20 2412MHz Ant1 Ref

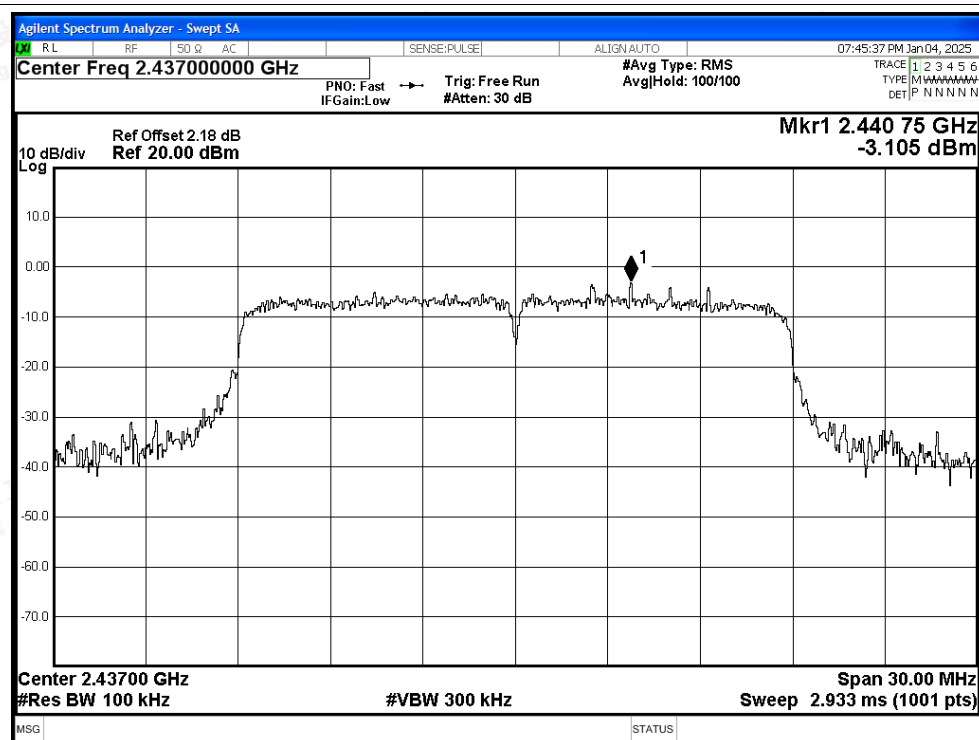


## Tx. Spurious NVNT n20 2412MHz Ant1 Emission

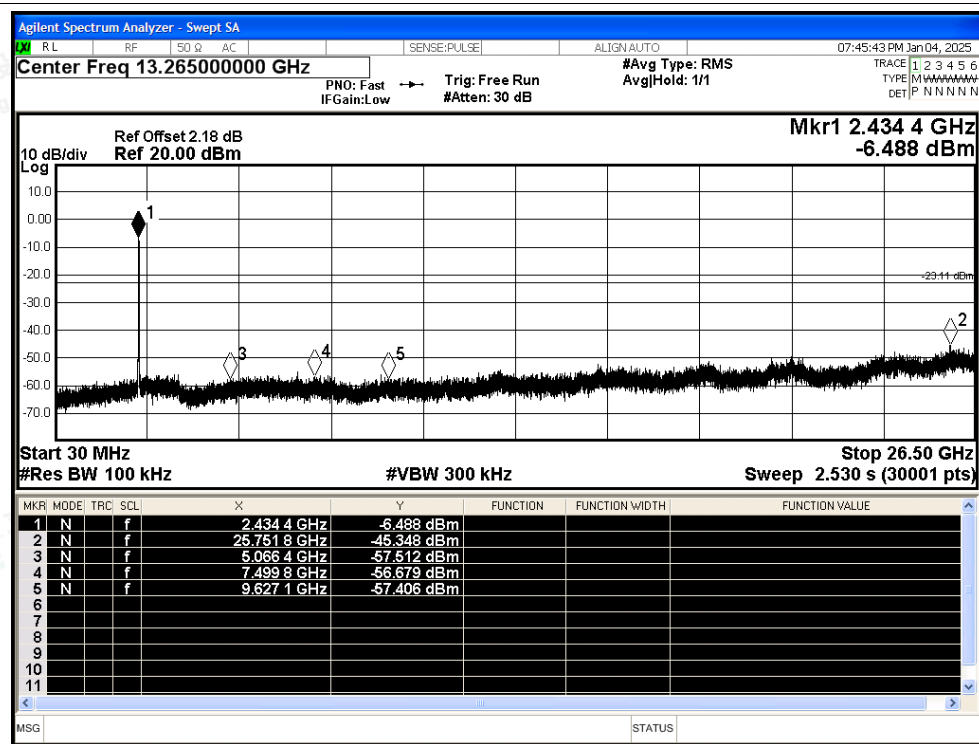




## Tx. Spurious NVNT n20 2437MHz Ant1 Ref

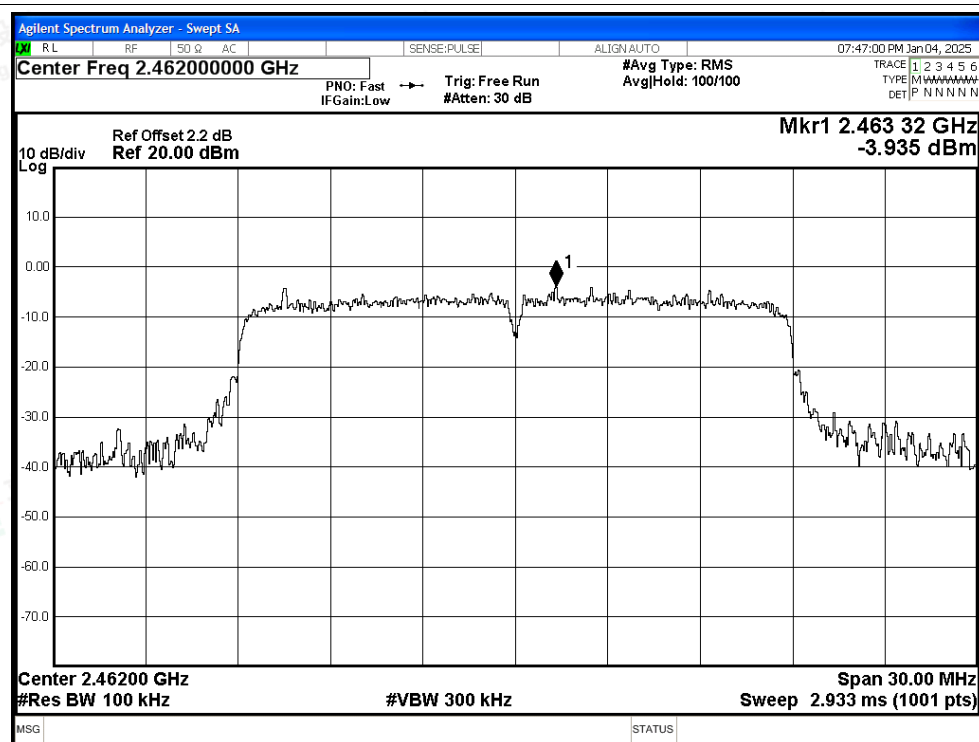


## Tx. Spurious NVNT n20 2437MHz Ant1 Emission

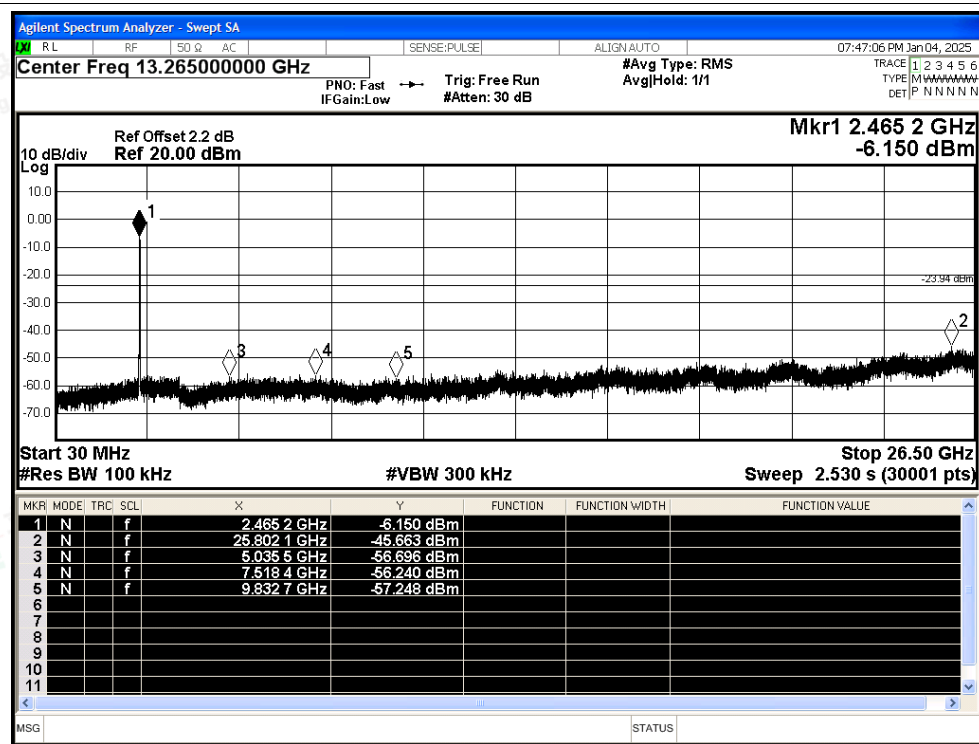




## Tx. Spurious NVNT n20 2462MHz Ant1 Ref



## Tx. Spurious NVNT n20 2462MHz Ant1 Emission





## 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    | 99.13          | 0                      | 0.15      |
| NVNT      | g    | 2412            | Ant1    | 97.68          | 0.1                    | 0.37      |
| NVNT      | g    | 2437            | Ant1    | 97.75          | 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    | 97.33          | 0.12                   | 0.44      |

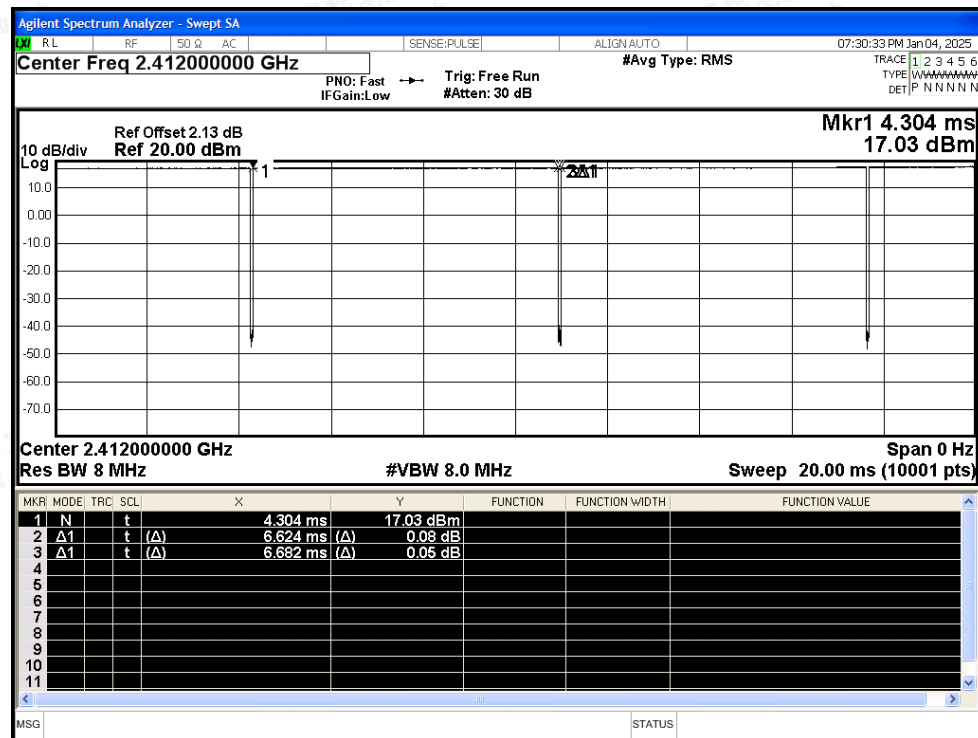


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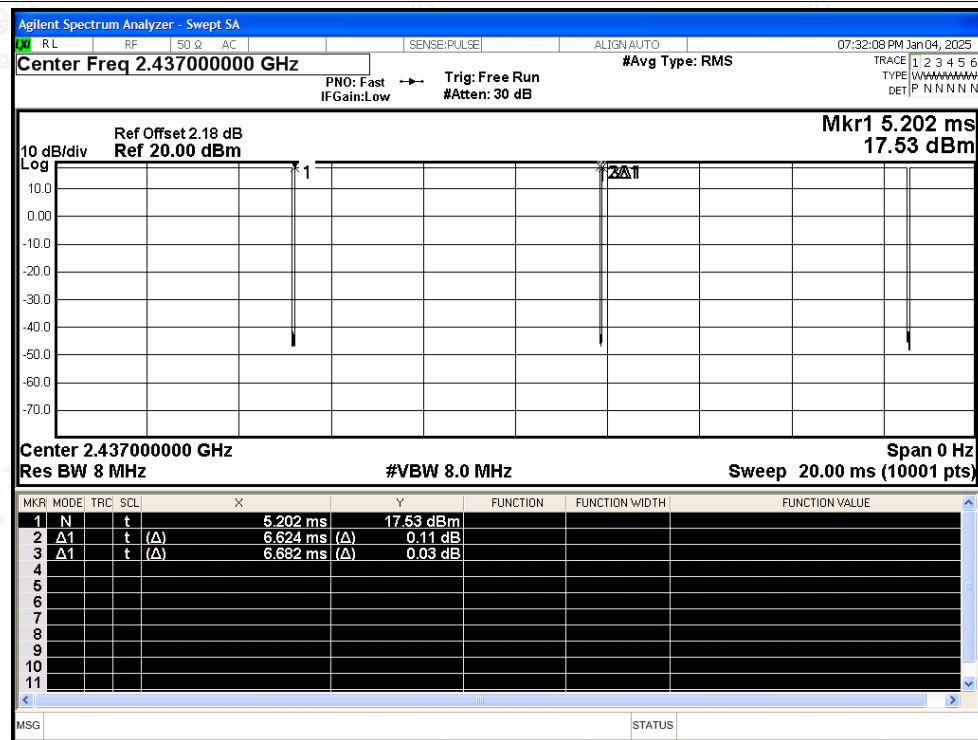


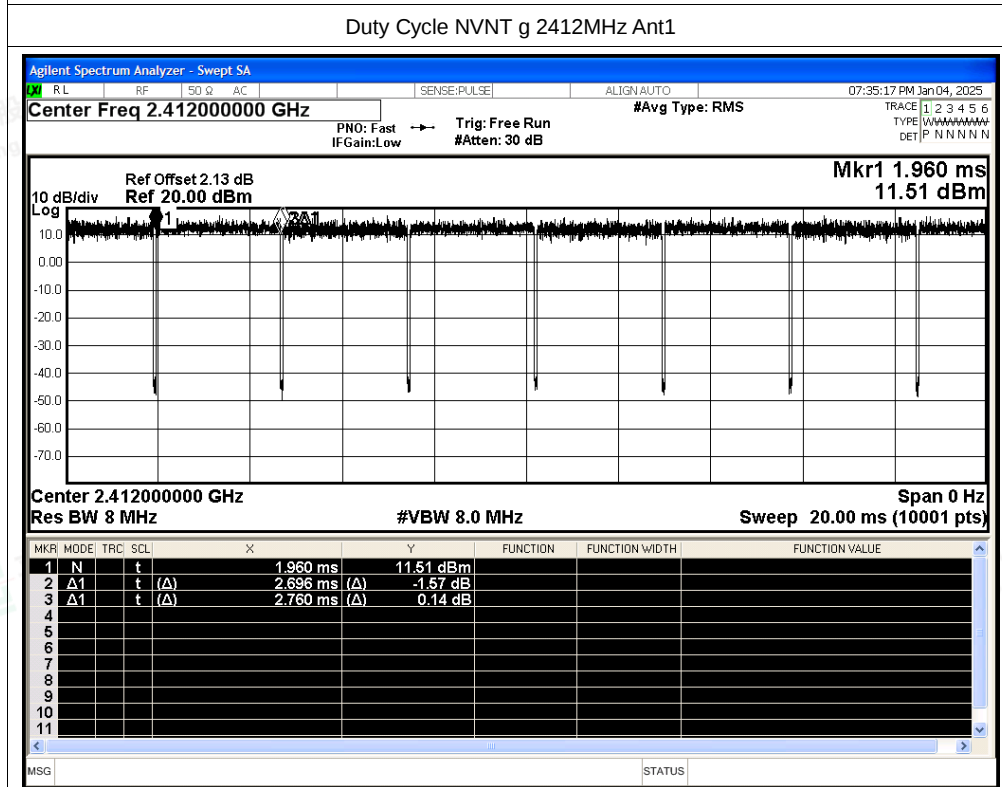
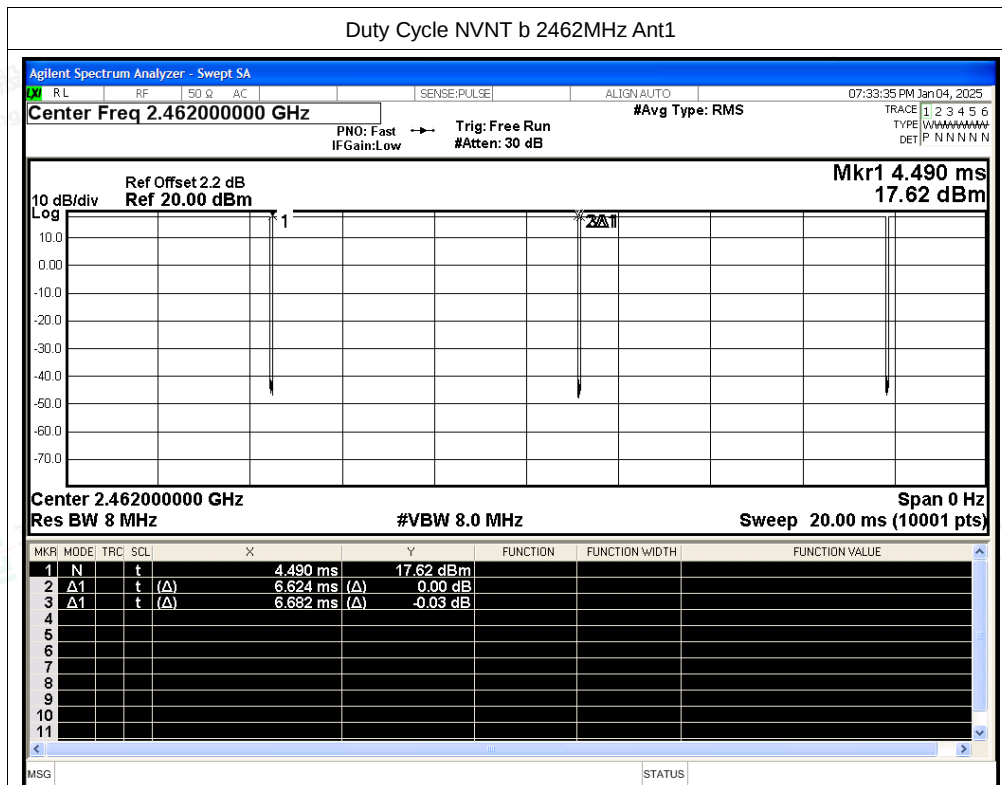
## Test Graphs

## Duty Cycle NVNT b 2412MHz Ant1



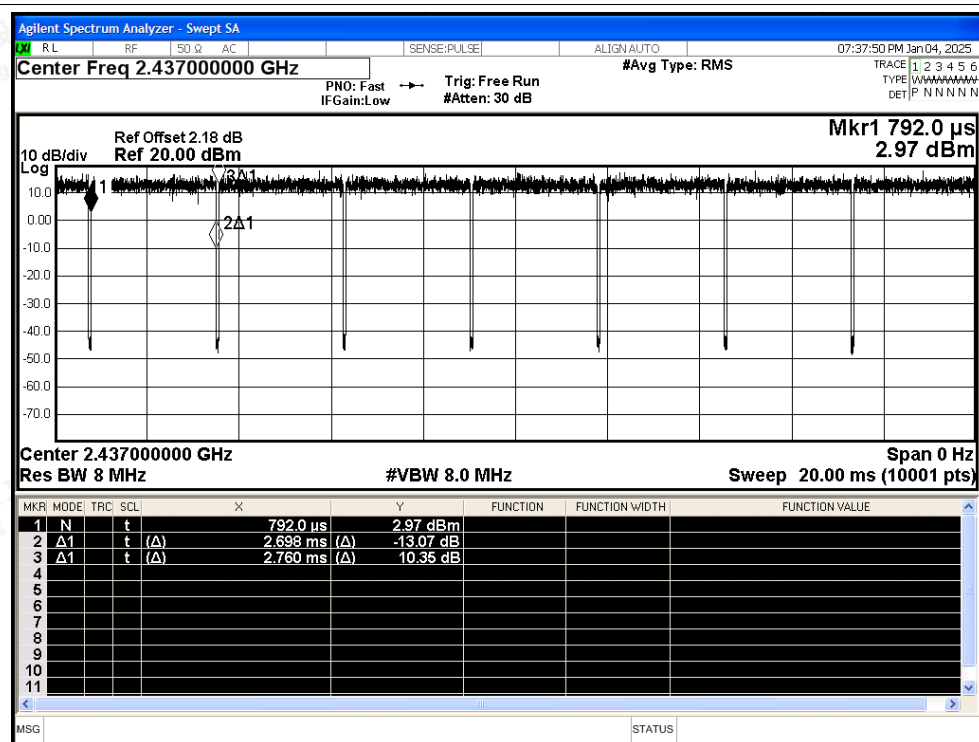
## Duty Cycle NVNT b 2437MHz Ant1



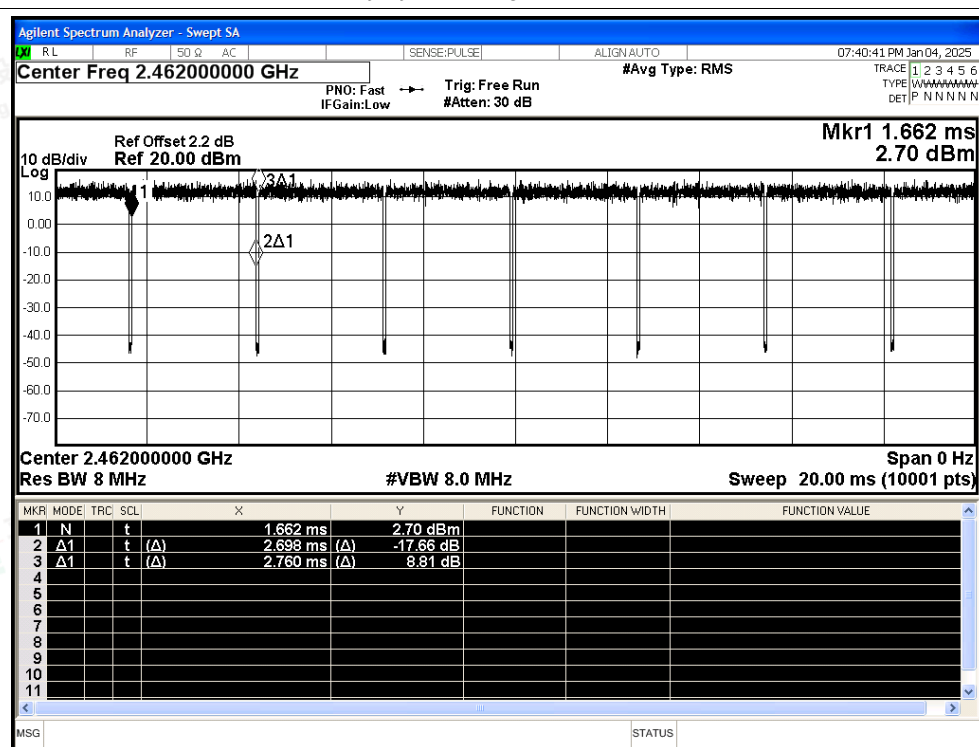




## Duty Cycle NVNT g 2437MHz Ant1

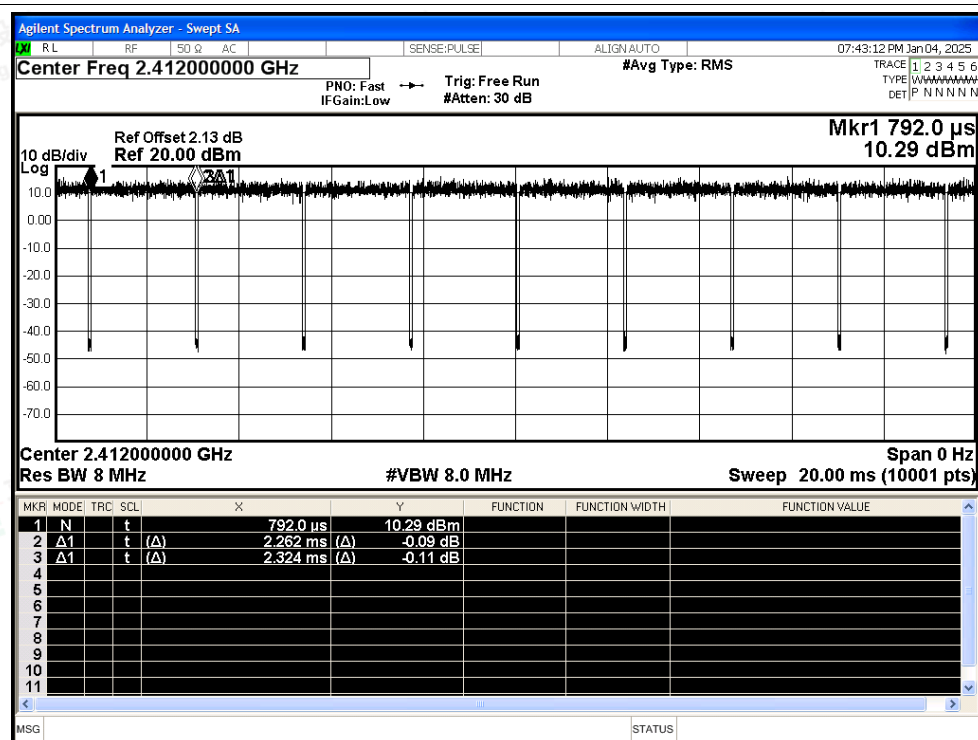


## Duty Cycle NVNT g 2462MHz Ant1

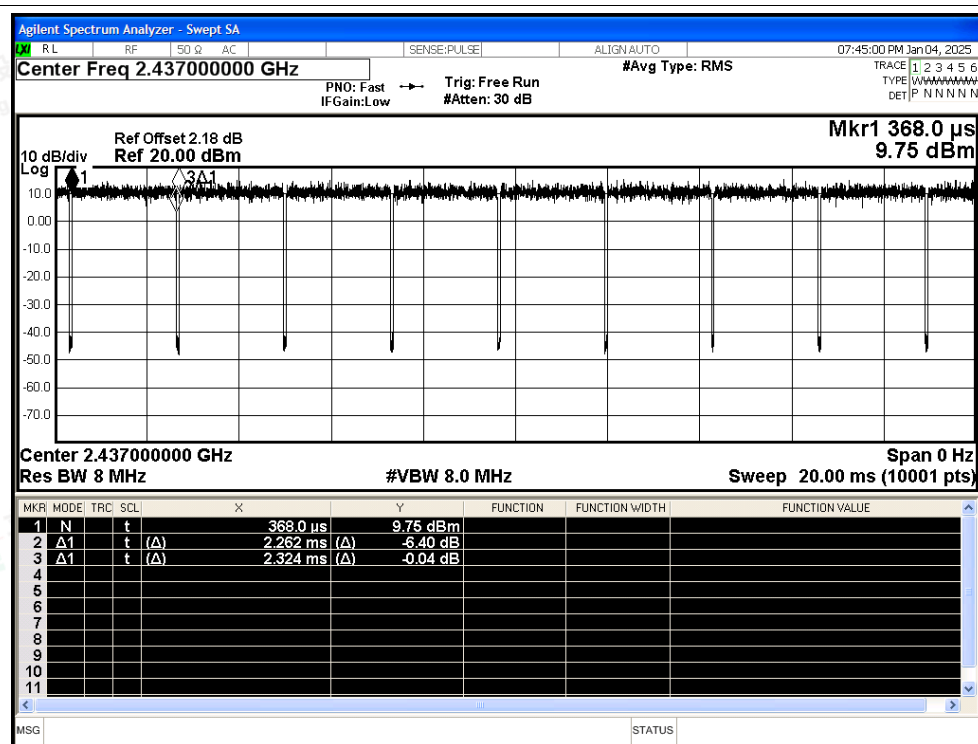


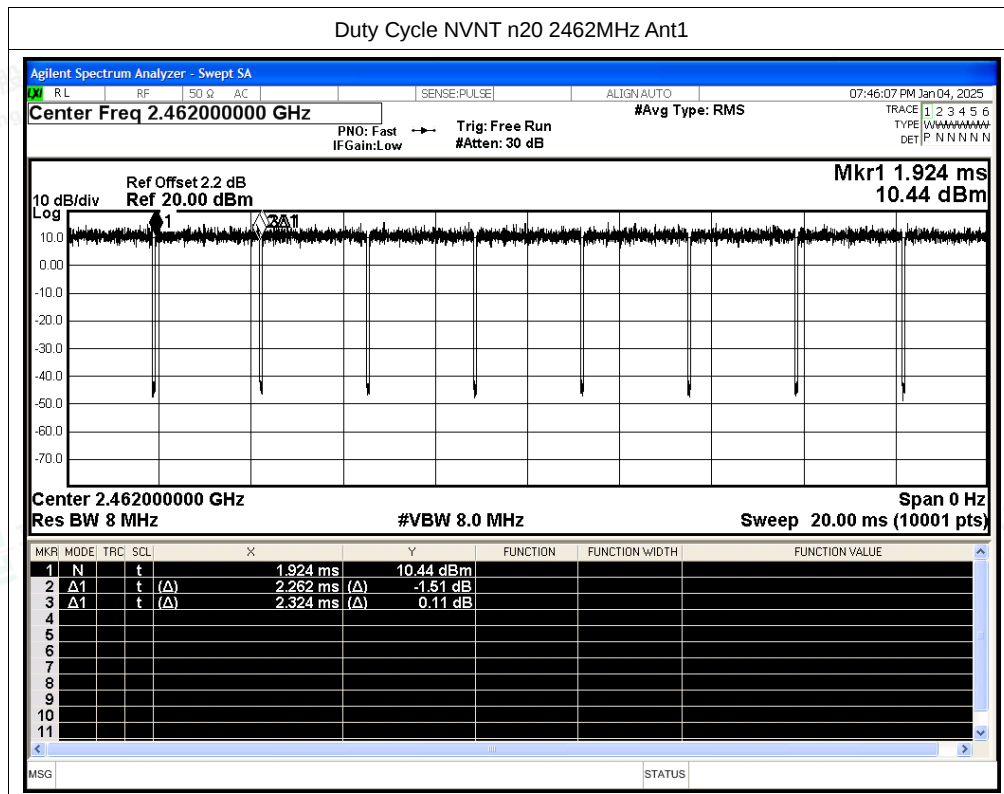


## Duty Cycle NVNT n20 2412MHz Ant1



## Duty Cycle NVNT n20 2437MHz Ant1







## 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            | -50.3       | 2          | -                | 46.96      | Peak     | 74             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2310            | -58.77      | 2          | 0                | 38.49      | Average  | 54             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2389.092        | -45.83      | 2          | -                | 51.43      | Peak     | 74             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2389.092        | -55.48      | 2          | 0                | 41.78      | Average  | 54             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2390            | -49.11      | 2          | -                | 48.15      | Peak     | 74             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2390            | -56.45      | 2          | 0                | 40.81      | Average  | 54             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2483.5          | -46.8       | 2          | -                | 50.46      | Peak     | 74             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2483.5          | -53.96      | 2          | 0                | 43.3       | Average  | 54             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2484.312        | -43.91      | 2          | -                | 53.35      | Peak     | 74             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2483.676        | -53.36      | 2          | 0                | 43.9       | Average  | 54             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2500            | -49.6       | 2          | -                | 47.66      | Peak     | 74             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2500            | -58.33      | 2          | 0                | 38.93      | Average  | 54             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2310            | -50.66      | 2          | -                | 46.6       | Peak     | 74             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2310            | -58.87      | 2          | 0.1              | 38.49      | Average  | 54             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2387.688        | -39.59      | 2          | -                | 57.67      | Peak     | 74             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2389.443        | -54.33      | 2          | 0.1              | 43.03      | Average  | 54             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2390            | -37.35      | 2          | -                | 59.91      | Peak     | 74             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2390            | -54.73      | 2          | 0.1              | 42.63      | Average  | 54             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2483.5          | -38.4       | 2          | -                | 58.86      | Peak     | 74             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2483.5          | -55.03      | 2          | 0.1              | 42.33      | Average  | 54             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2483.782        | -37.33      | 2          | -                | 59.93      | Peak     | 74             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2483.835        | -54.18      | 2          | 0.1              | 43.18      | Average  | 54             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2500            | -49.81      | 2          | -                | 47.45      | Peak     | 74             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2500            | -58         | 2          | 0.1              | 39.36      | Average  | 54             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2310            | -50.69      | 2          | -                | 46.57      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2310            | -58.47      | 2          | 0.12             | 38.91      | Average  | 54             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2389.209        | -34.34      | 2          | -                | 62.92      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2389.443        | -51.4       | 2          | 0.12             | 45.98      | Average  | 54             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2390            | -38.68      | 2          | -                | 58.58      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2390            | -53.47      | 2          | 0.12             | 43.91      | Average  | 54             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2483.5          | -42.06      | 2          | -                | 55.2       | Peak     | 74             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2483.5          | -53.92      | 2          | 0.12             | 43.46      | Average  | 54             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2483.676        | -34.74      | 2          | -                | 62.52      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2483.888        | -53.33      | 2          | 0.12             | 44.05      | Average  | 54             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2500            | -49.49      | 2          | -                | 47.77      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2500            | -58.31      | 2          | 0.12             | 39.07      | Average  | 54             | Pass    |

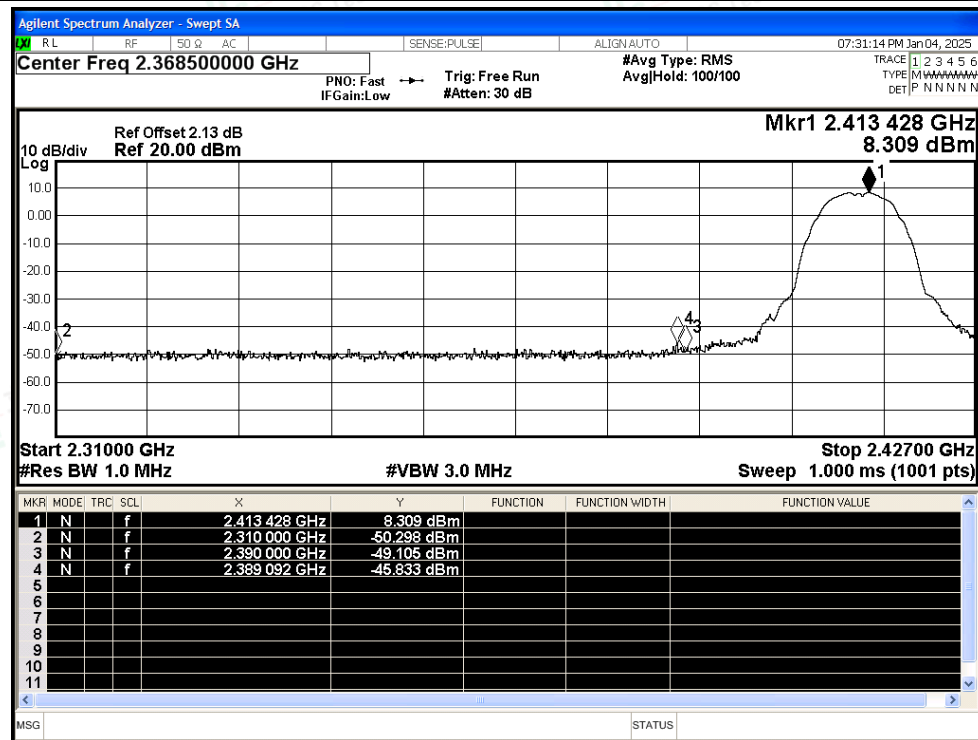


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Baoan District, Shenzhen, 518000, China  
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
Scan code to check authenticity

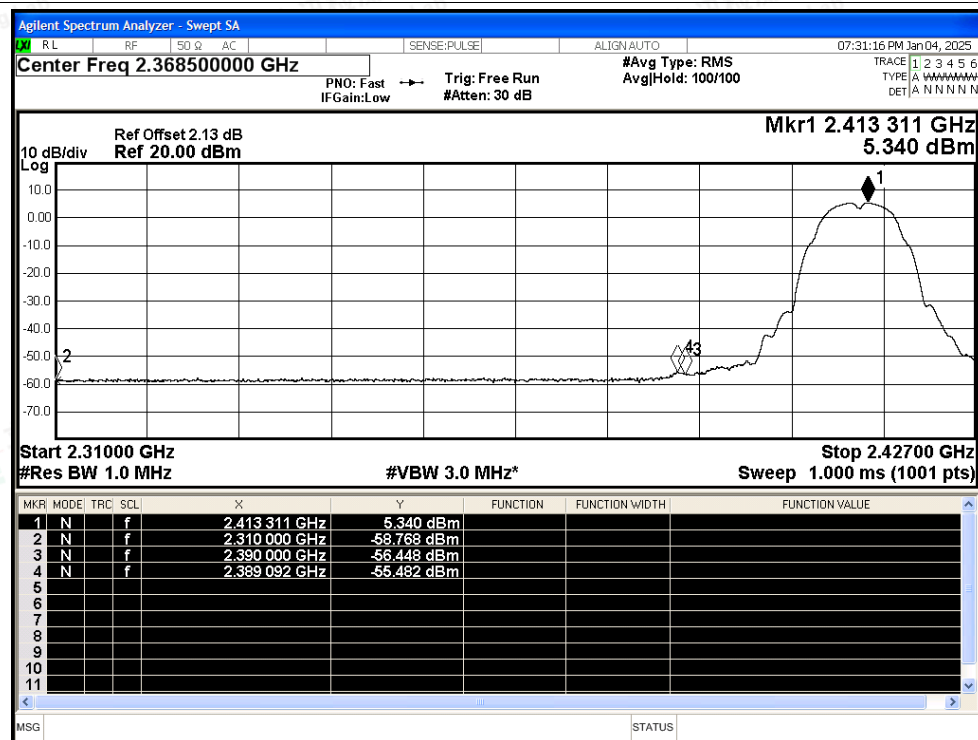


## Test Graphs

## Restrict Band NVNT b 2412MHz Ant1 Peak

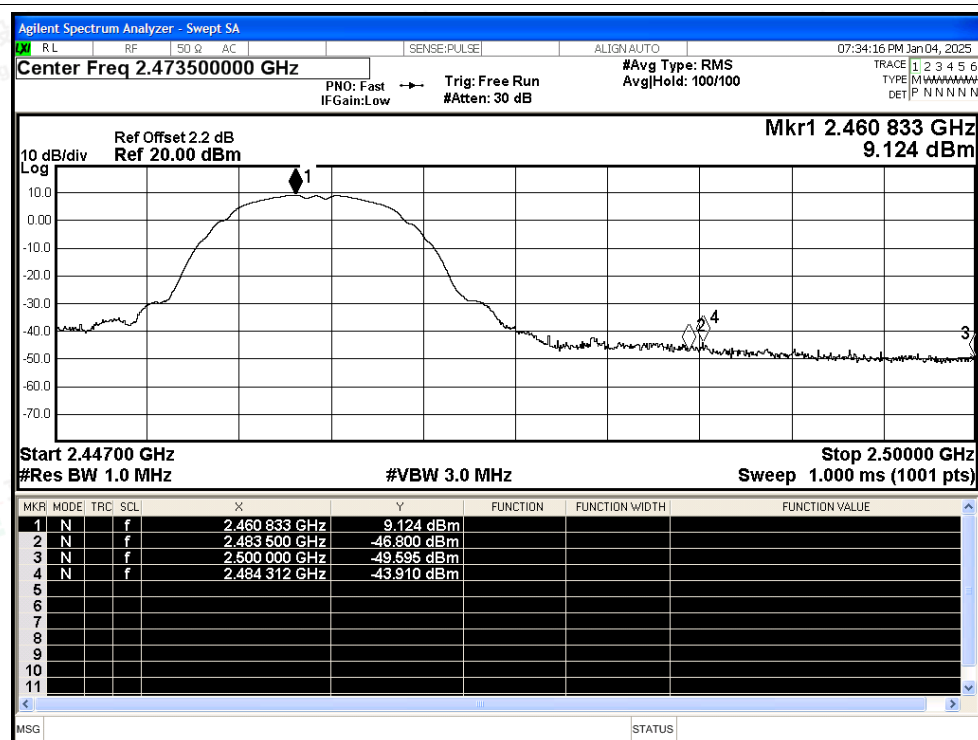


## Restrict Band NVNT b 2412MHz Ant1 Average

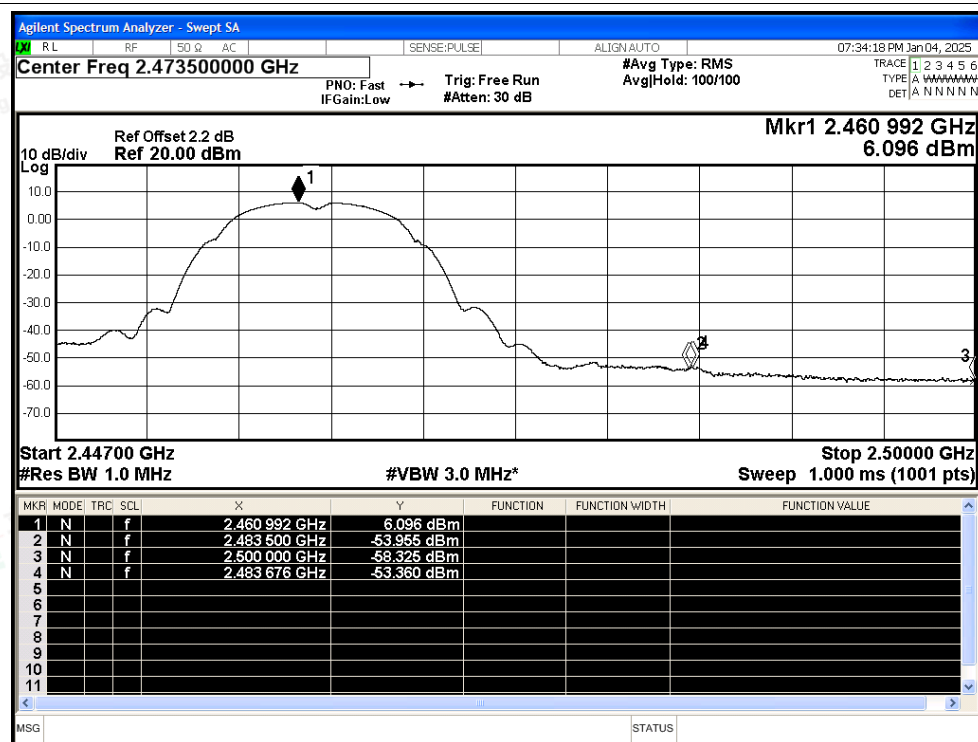




## Restrict Band NVNT b 2462MHz Ant1 Peak

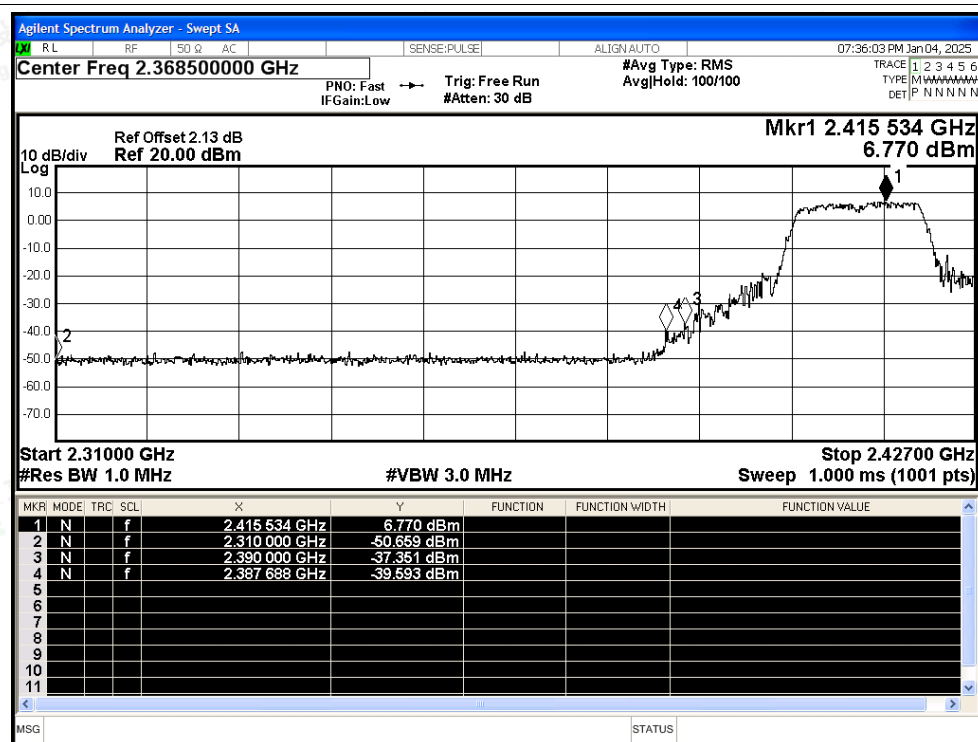


## Restrict Band NVNT b 2462MHz Ant1 Average

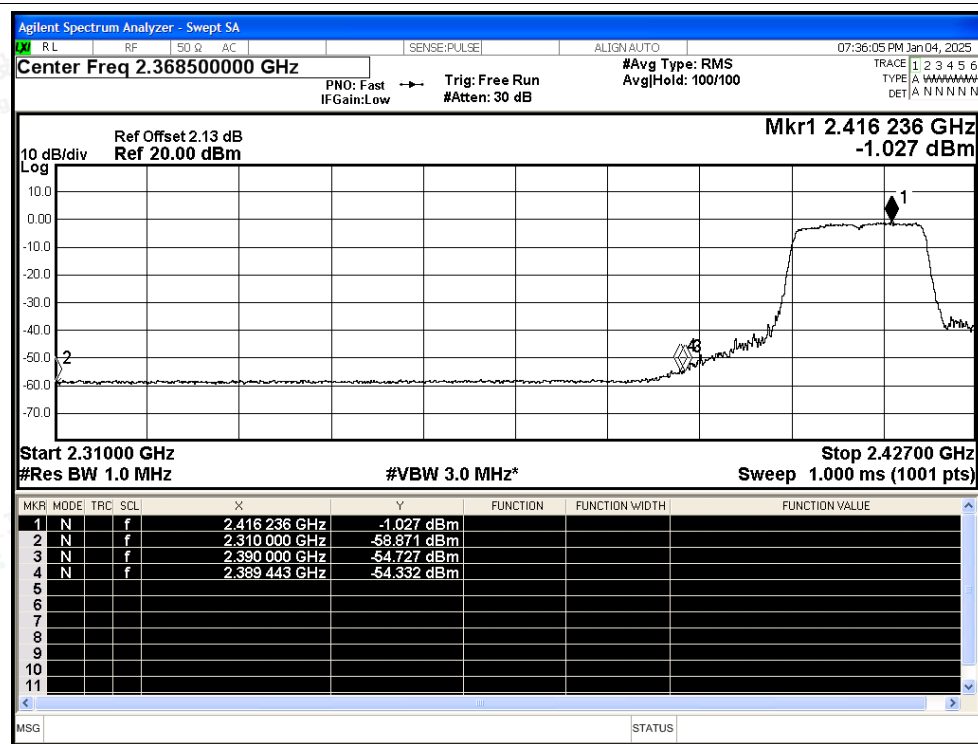




## Restrict Band NVNT g 2412MHz Ant1 Peak

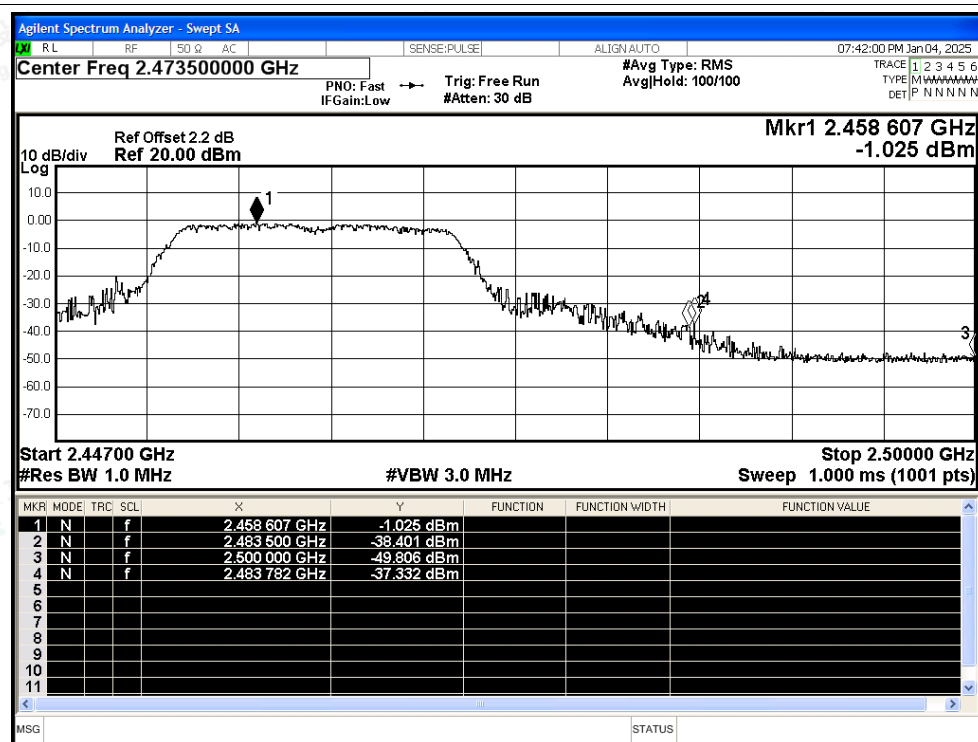


## Restrict Band NVNT g 2412MHz Ant1 Average

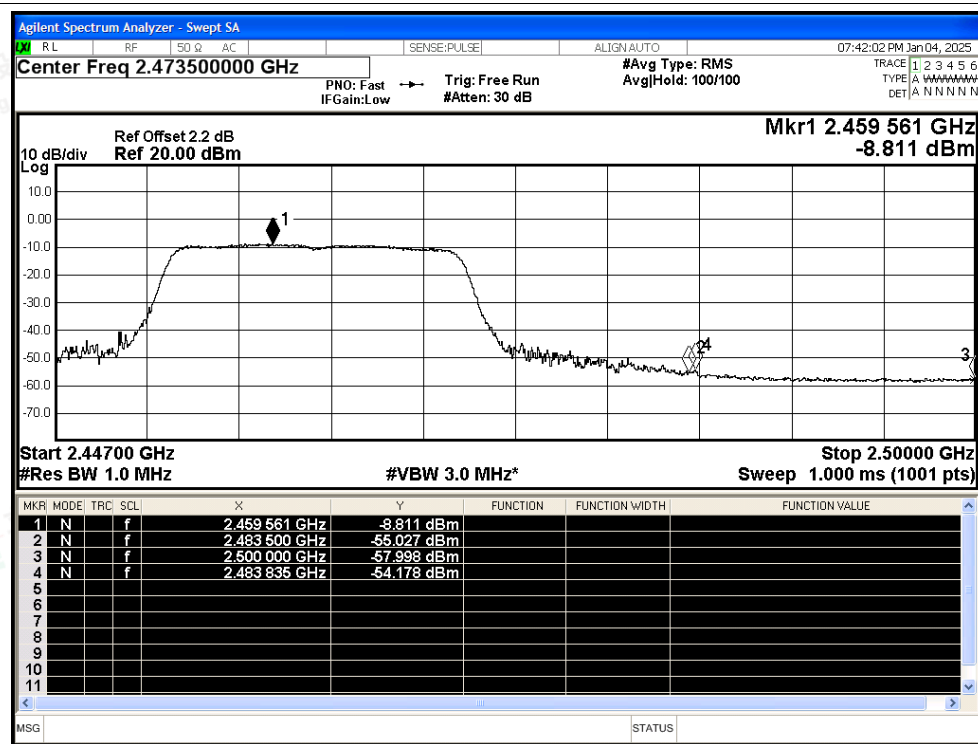




## Restrict Band NVNT g 2462MHz Ant1 Peak

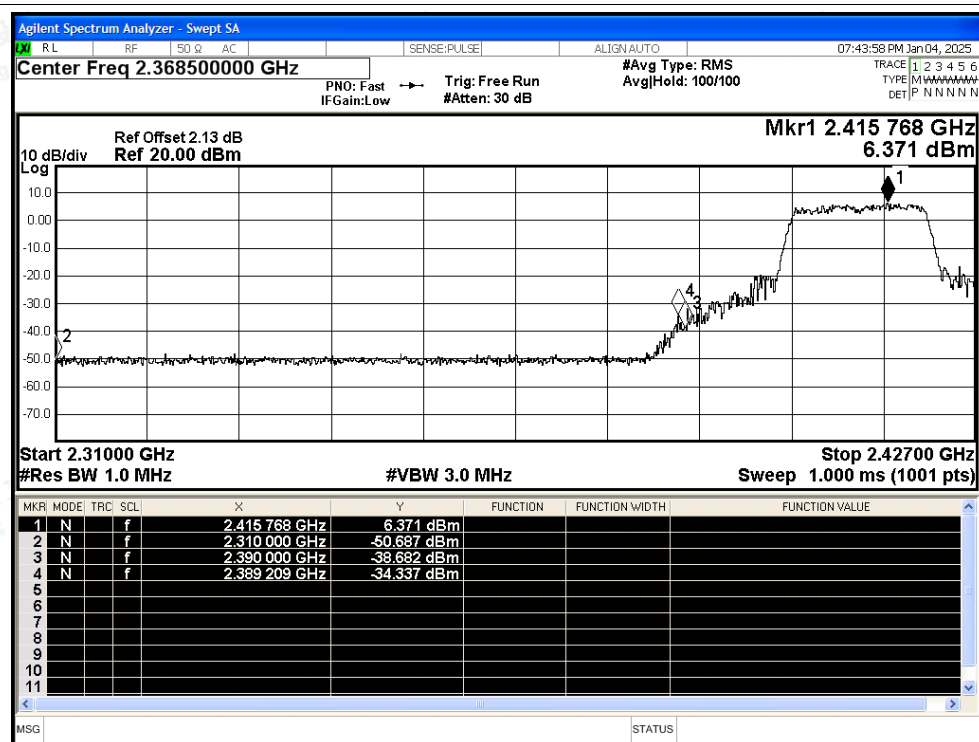


## Restrict Band NVNT g 2462MHz Ant1 Average

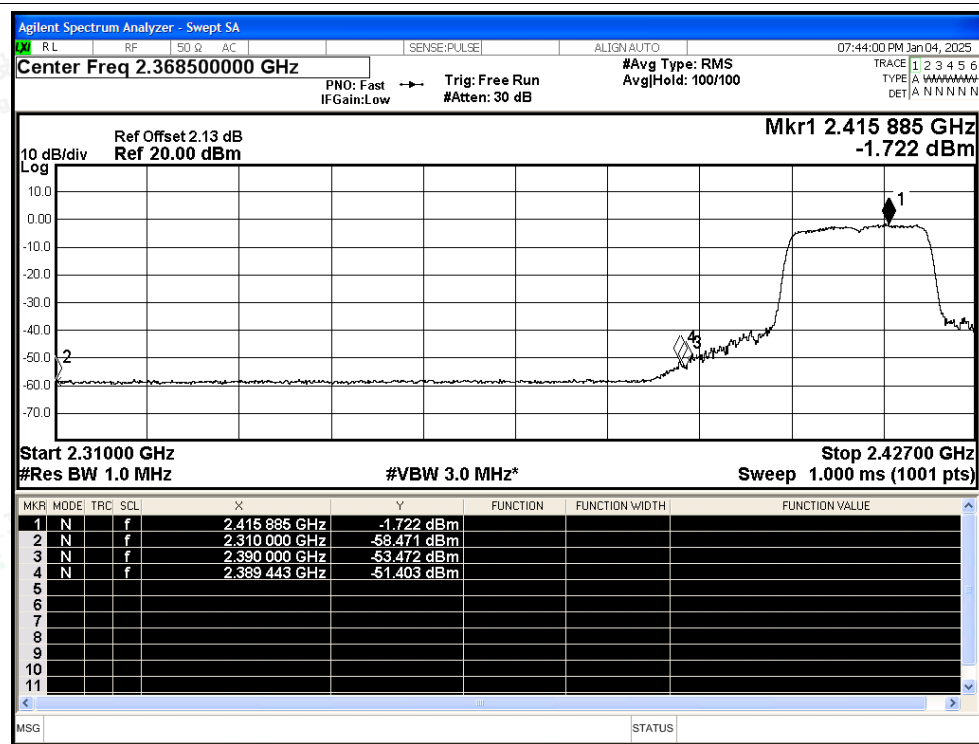




## Restrict Band NVNT n20 2412MHz Ant1 Peak

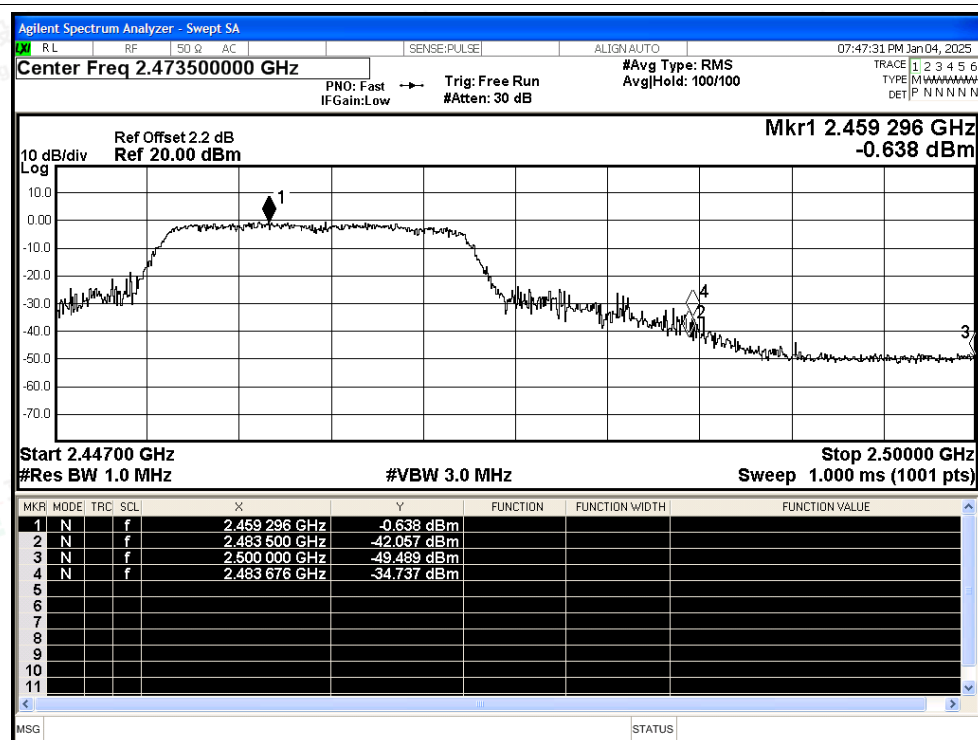


## Restrict Band NVNT n20 2412MHz Ant1 Average





## Restrict Band NVNT n20 2462MHz Ant1 Peak



## Restrict Band NVNT n20 2462MHz Ant1 Average

