



## Appendix C

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

Product Name: Car CarPlay Stereo

Test Model: 1026SCP

#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 23.9° C   |
| Relative Humidity: | 52.4%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Jose Zhu  |
| Supervised by:     | Nick Peng |



Shenzhen LCS Compliance Testing Laboratory Ltd.  
Add: 101, 201 Bldg A & 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



## C.1 -6dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | b    | 2412            | Ant1    | 8.567                 | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2437            | Ant1    | 7.568                 | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2462            | Ant1    | 7.779                 | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2412            | Ant1    | 16.398                | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2437            | Ant1    | 16.312                | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2462            | Ant1    | 16.415                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 16.754                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 17.26                 | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 17.237                | $\geq 0.5$                  | Pass    |



Shenzhen LCS Compliance Testing Laboratory Ltd.  
Add: 101, 201 Bldg A & 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



## Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1

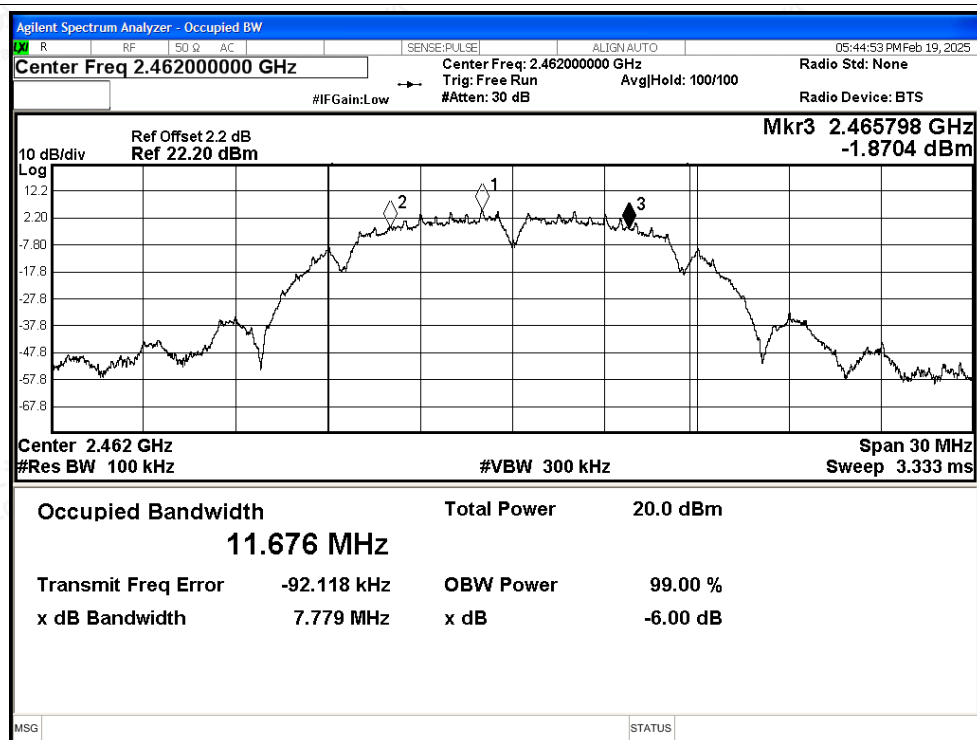


-6dB Bandwidth NVNT b 2437MHz Ant1

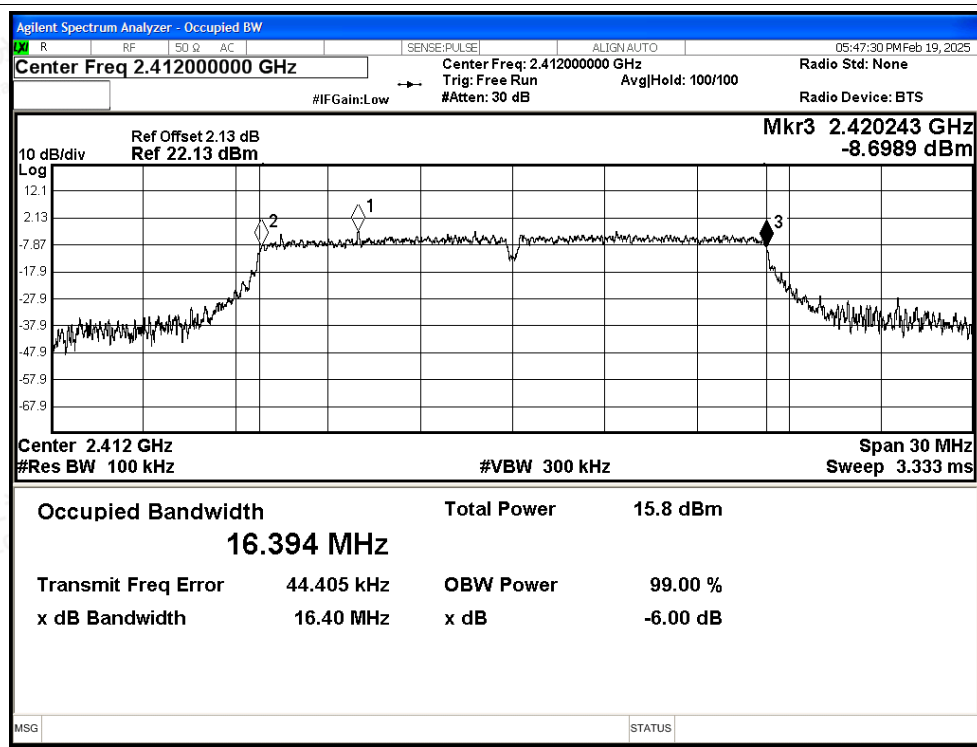




## -6dB Bandwidth NVNT b 2462MHz Ant1

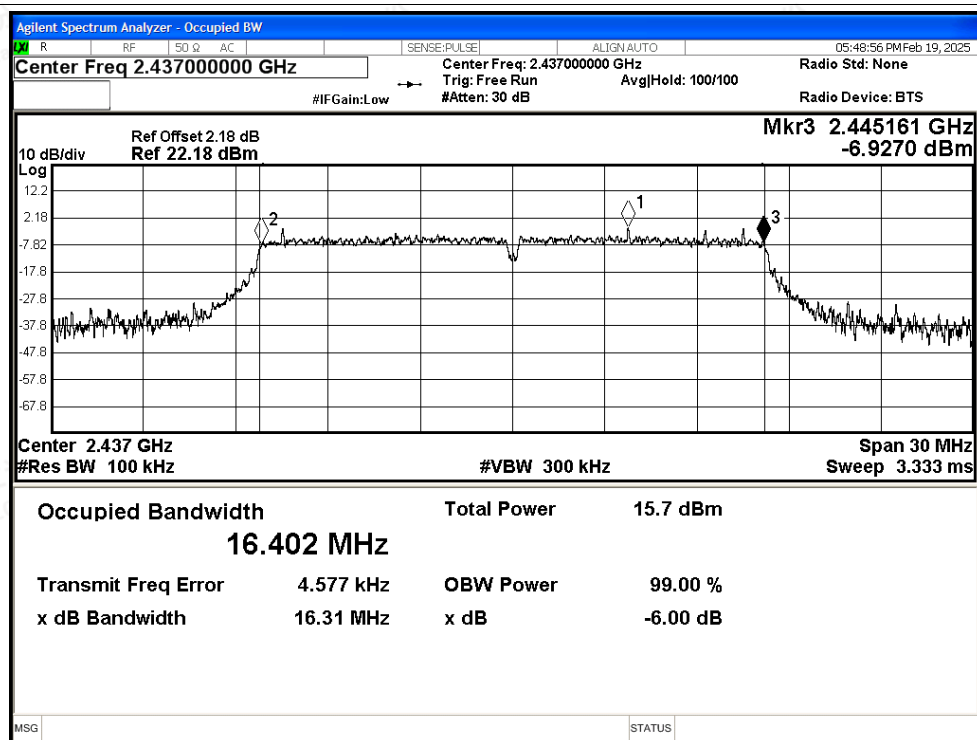


## -6dB Bandwidth NVNT g 2412MHz Ant1

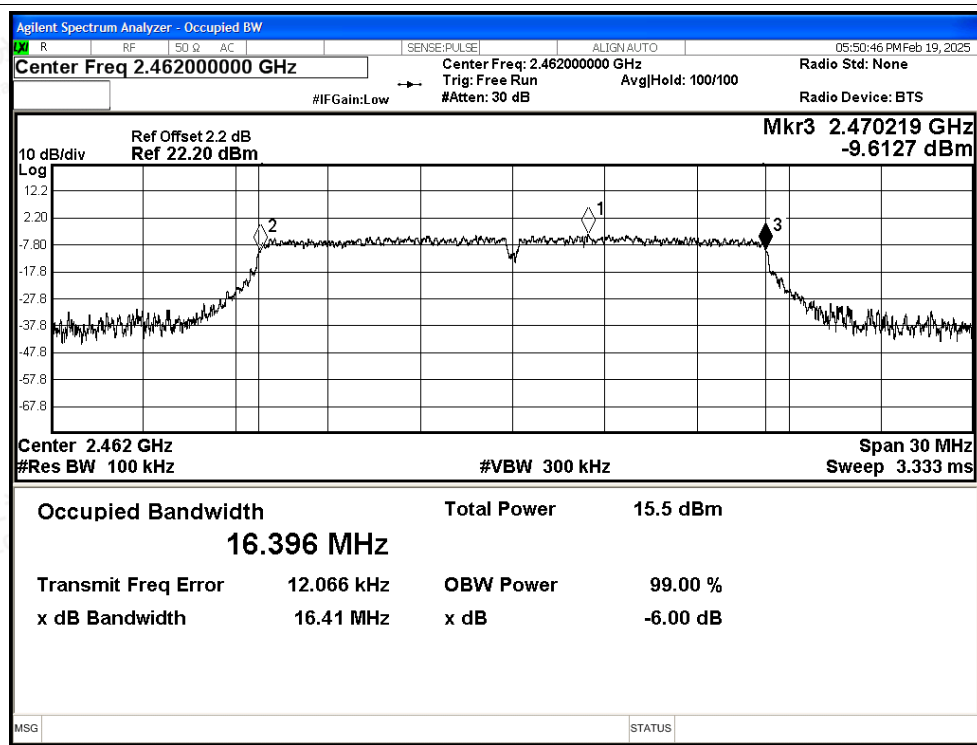




## -6dB Bandwidth NVNT g 2437MHz Ant1

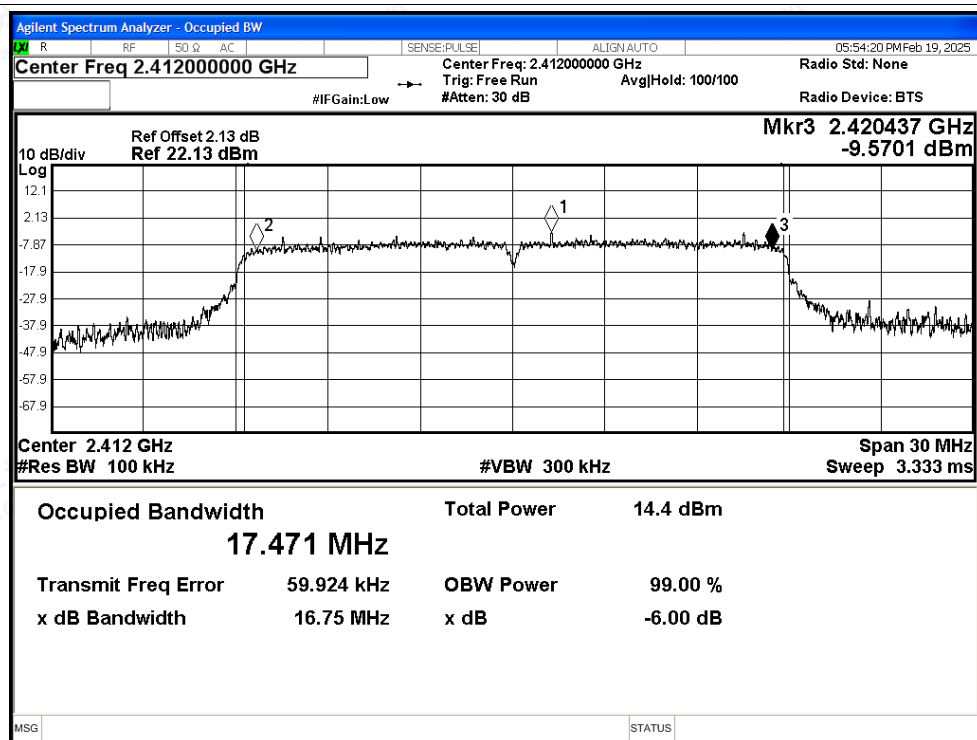


## -6dB Bandwidth NVNT g 2462MHz Ant1

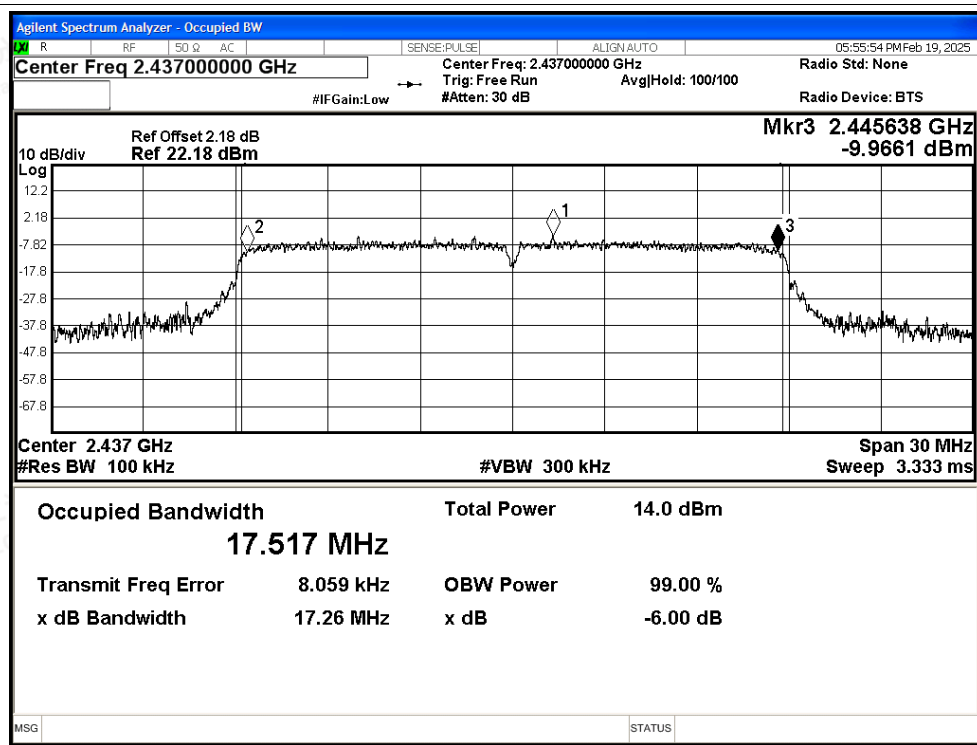


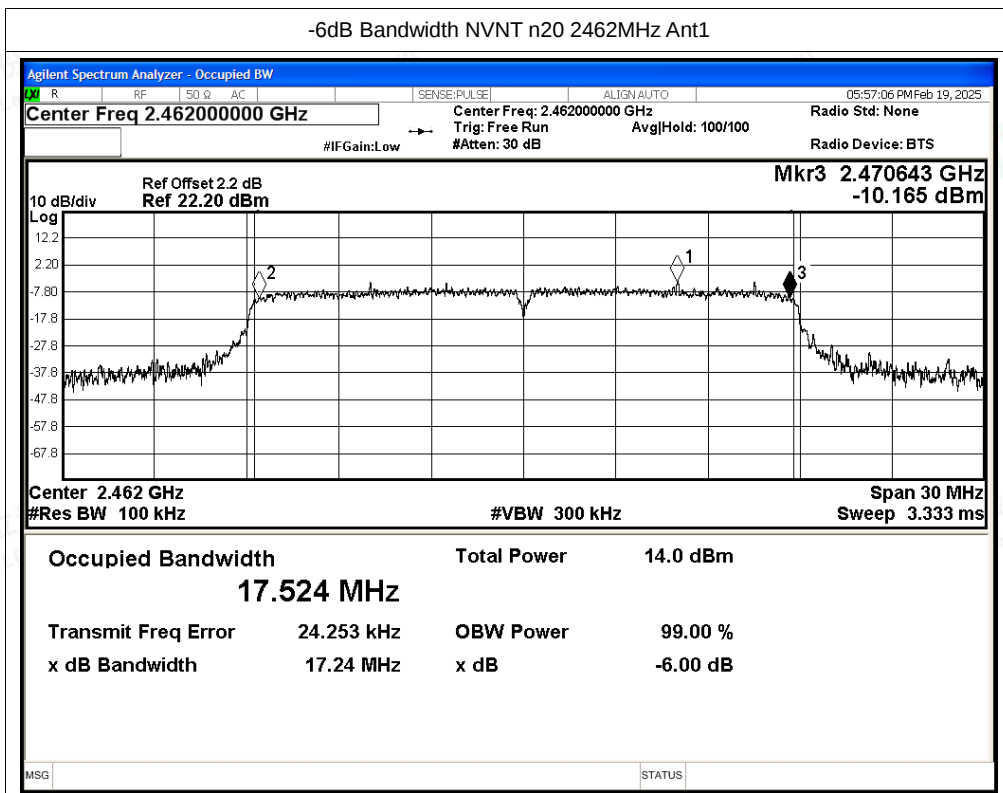


## -6dB Bandwidth NVNT n20 2412MHz Ant1



## -6dB Bandwidth NVNT n20 2437MHz Ant1







## C.2 Maximum Peak Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | 14.91                 | 30          | Pass    |
| NVNT      | b    | 2437            | Ant1    | 15.16                 | 30          | Pass    |
| NVNT      | b    | 2462            | Ant1    | 14.94                 | 30          | Pass    |
| NVNT      | g    | 2412            | Ant1    | 14.72                 | 30          | Pass    |
| NVNT      | g    | 2437            | Ant1    | 14.46                 | 30          | Pass    |
| NVNT      | g    | 2462            | Ant1    | 14.42                 | 30          | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 13.01                 | 30          | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 12.74                 | 30          | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 12.65                 | 30          | Pass    |



Shenzhen LCS Compliance Testing Laboratory Ltd.  
Add: 101, 201 Bldg A & 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



### C.3 Maximum Power Spectral Density Level

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|------|-----------------|---------|--------------------------|------------------|---------|
| NVNT      | b    | 2412            | Ant1    | -10.19                   | 8                | Pass    |
| NVNT      | b    | 2437            | Ant1    | -8.86                    | 8                | Pass    |
| NVNT      | b    | 2462            | Ant1    | -8.31                    | 8                | Pass    |
| NVNT      | g    | 2412            | Ant1    | -15.97                   | 8                | Pass    |
| NVNT      | g    | 2437            | Ant1    | -16.51                   | 8                | Pass    |
| NVNT      | g    | 2462            | Ant1    | -16.27                   | 8                | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -17.85                   | 8                | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -17.65                   | 8                | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -17.49                   | 8                | Pass    |

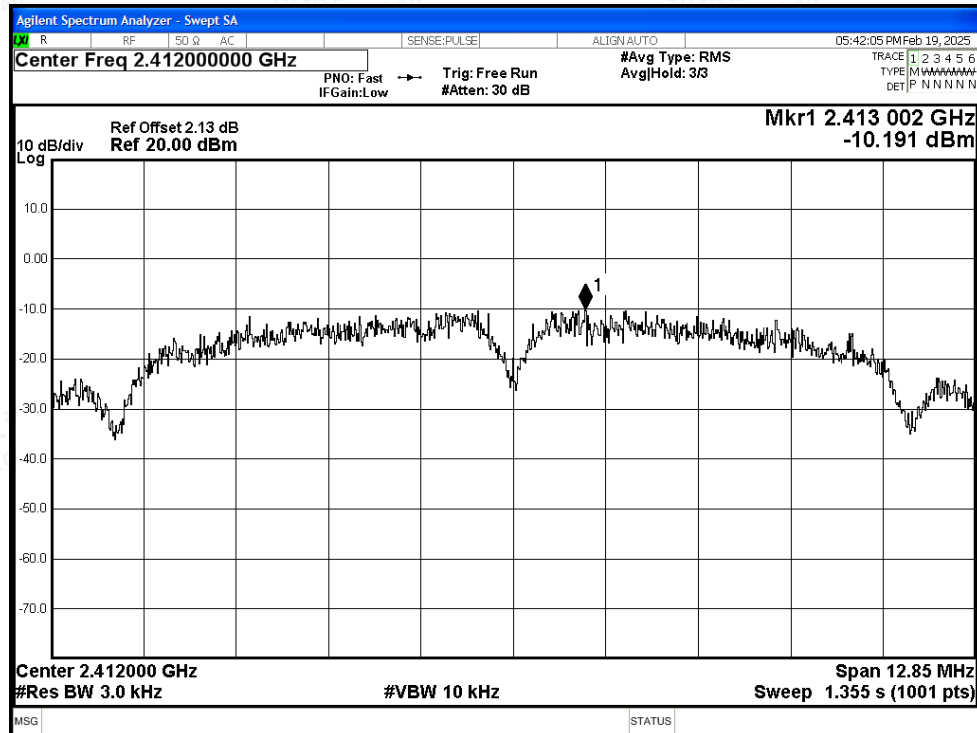


Shenzhen LCS Compliance Testing Laboratory Ltd.  
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street,  
Baoan District, Shenzhen, 518000, China  
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
Scan code to check authenticity

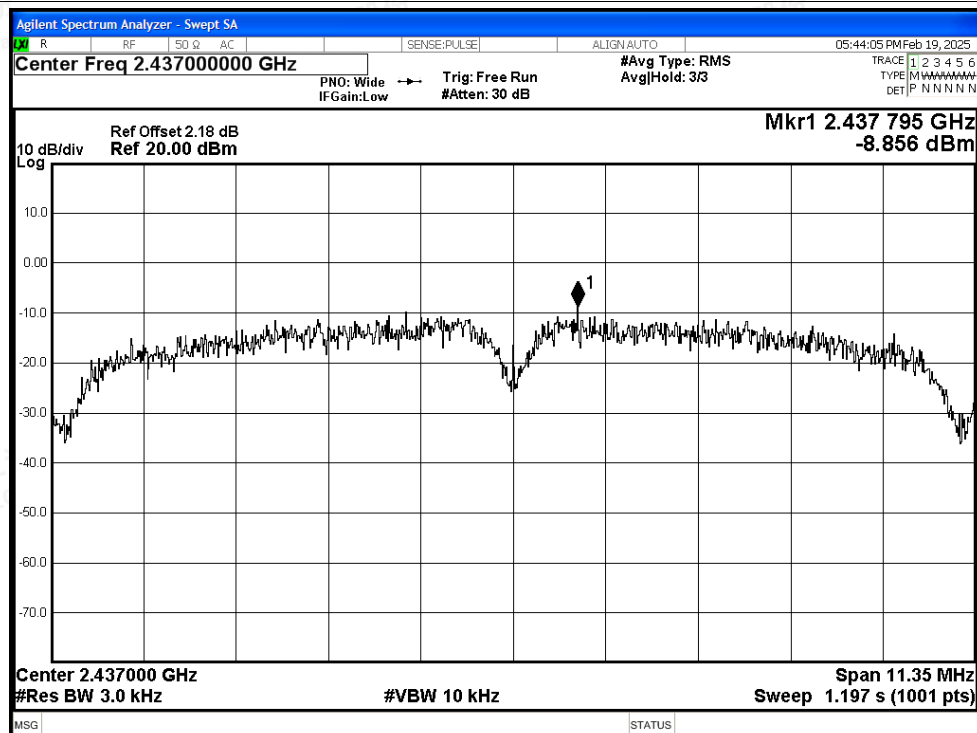


## Test Graphs

PSD NVNT b 2412MHz Ant1

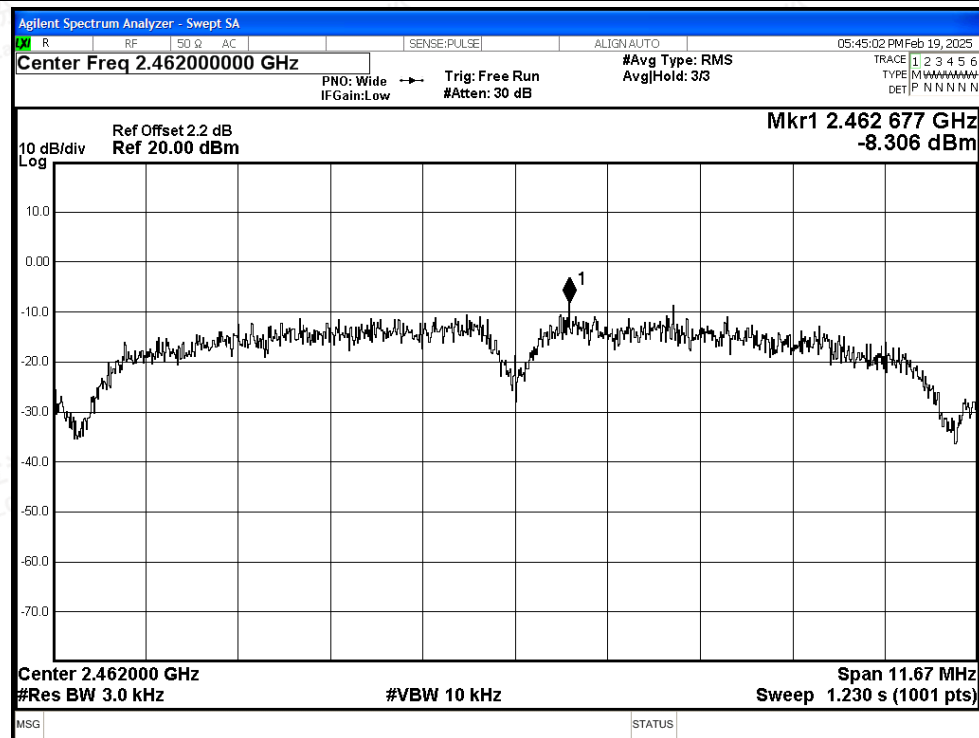


PSD NVNT b 2437MHz Ant1

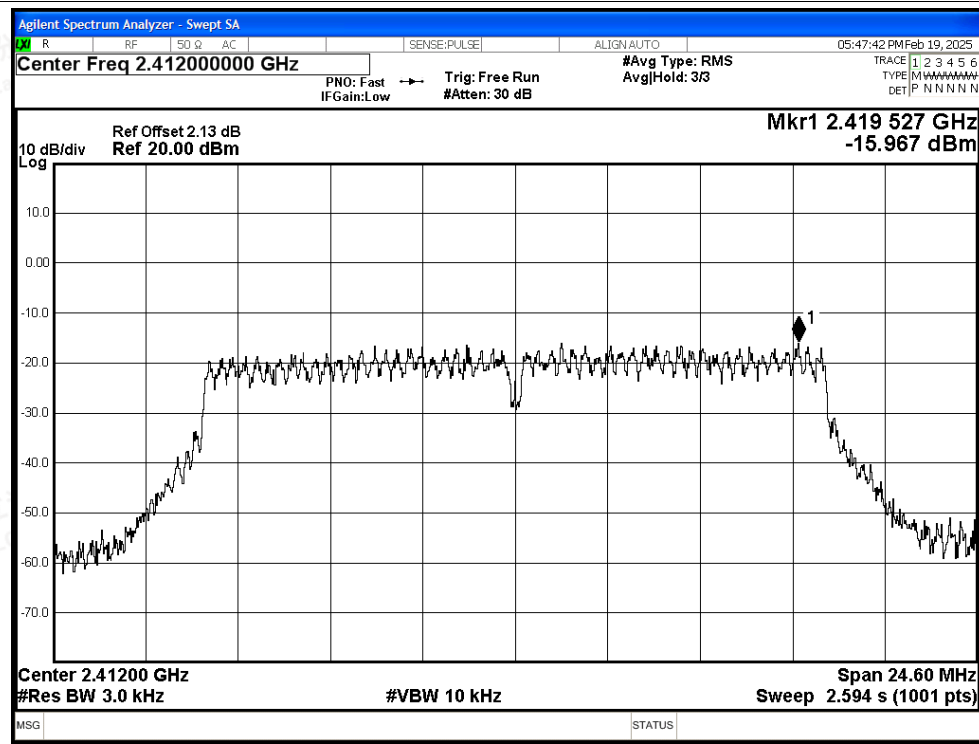




## PSD NVNT b 2462MHz Ant1

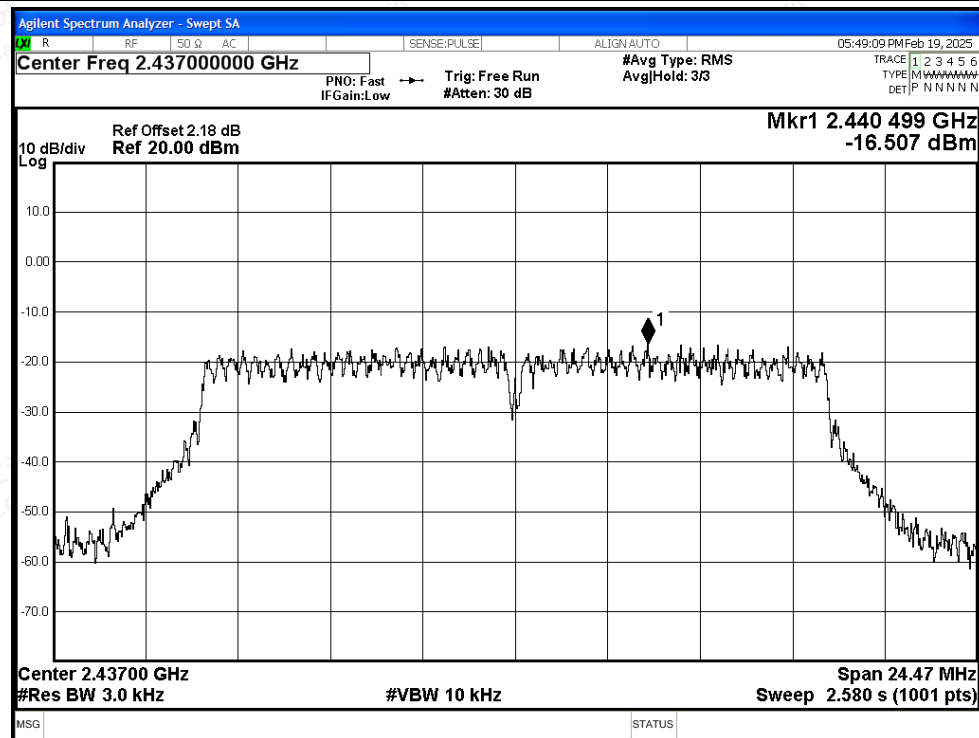


## PSD NVNT g 2412MHz Ant1

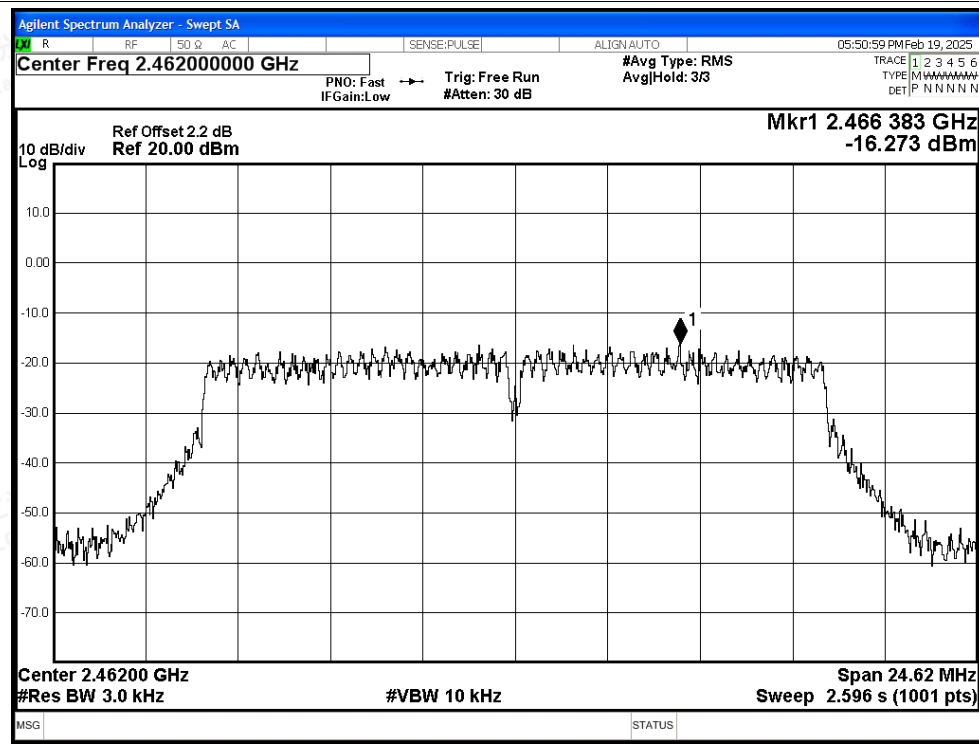


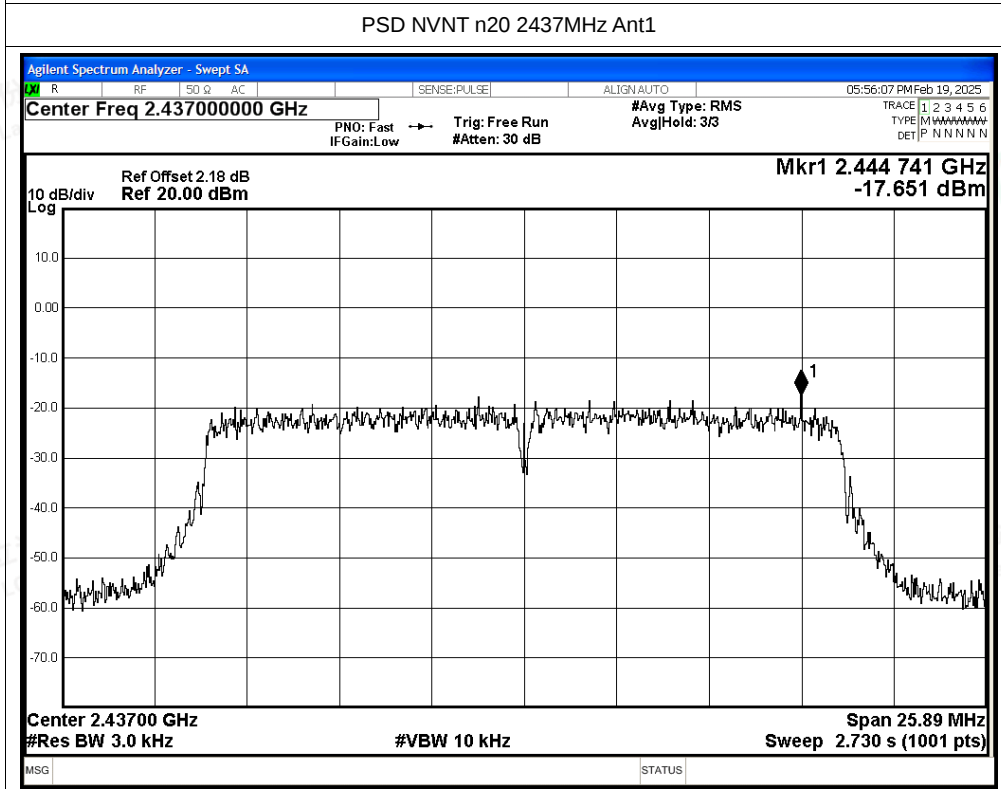
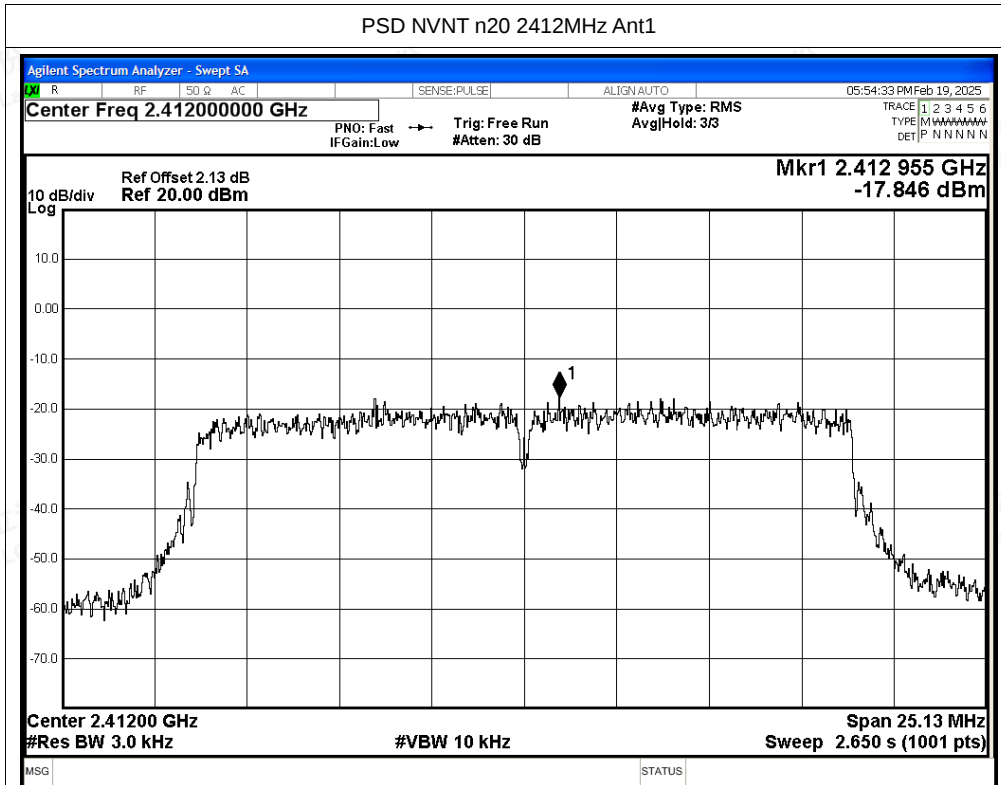


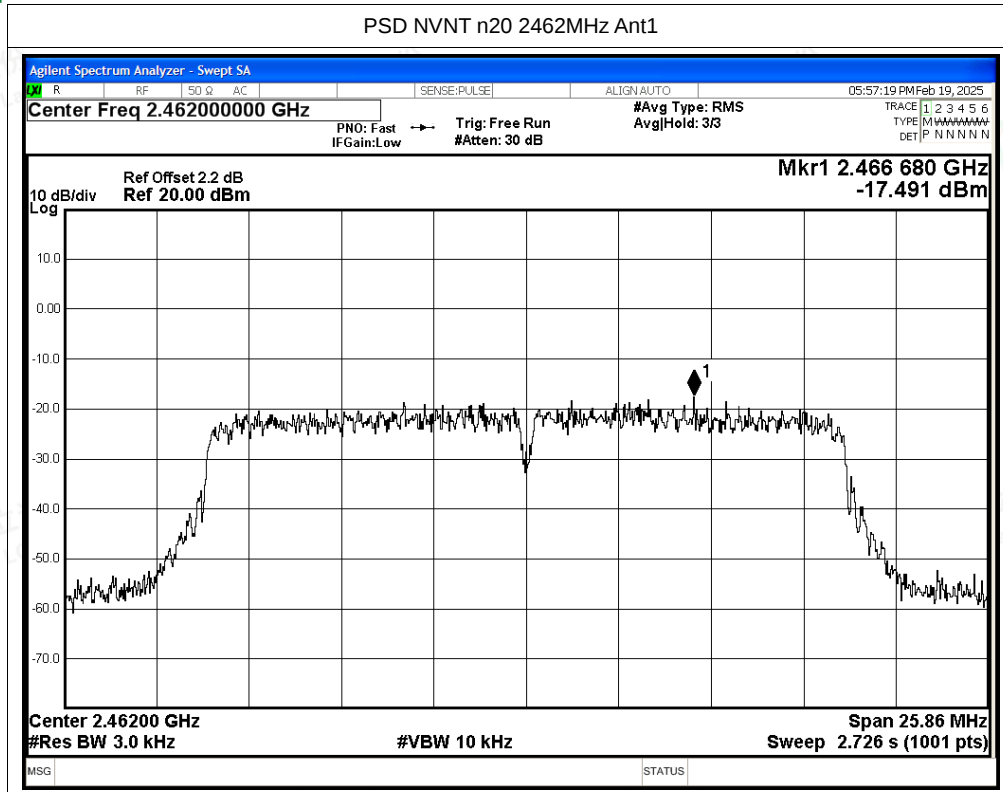
## PSD NVNT g 2437MHz Ant1



## PSD NVNT g 2462MHz Ant1









## C.4 Band Edge

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -47.88          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -59.78          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -32.06          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -43.76          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -32.51          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -41.09          | -20         | Pass    |

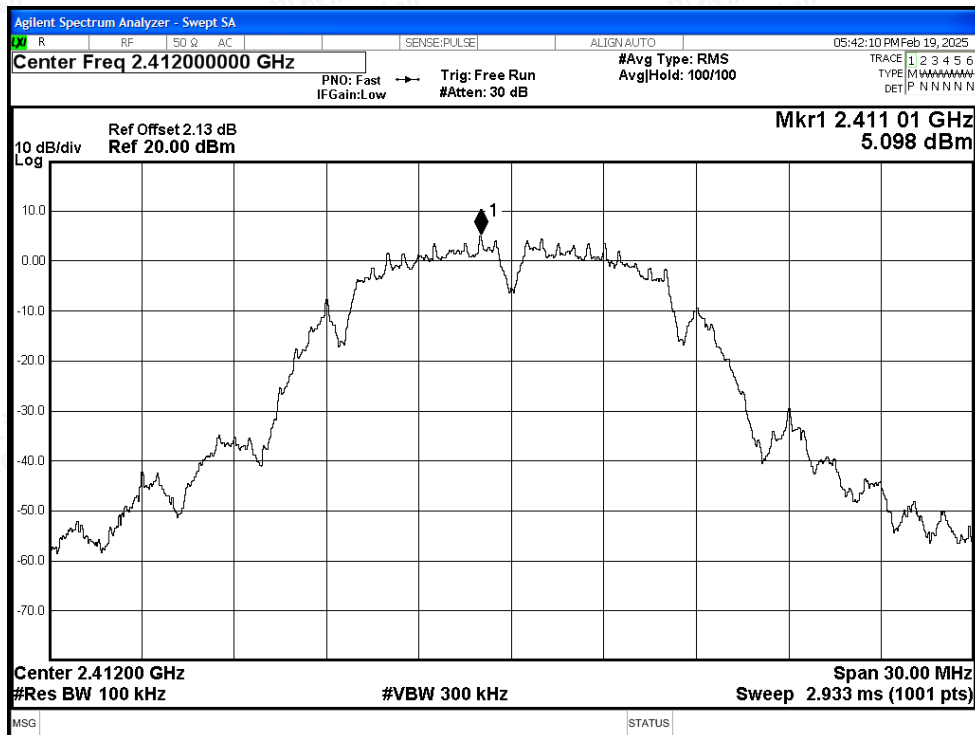


Shenzhen LCS Compliance Testing Laboratory Ltd.  
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street,  
Baoan District, Shenzhen, 518000, China  
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
Scan code to check authenticity

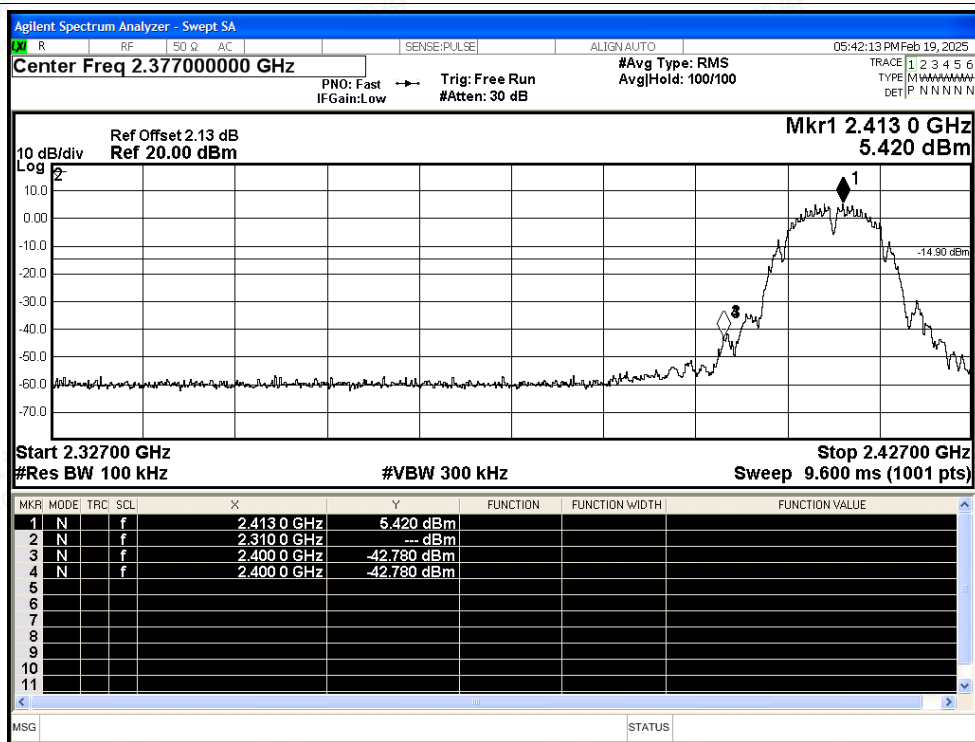


## Test Graphs

## Band Edge NVNT b 2412MHz Ant1 Ref

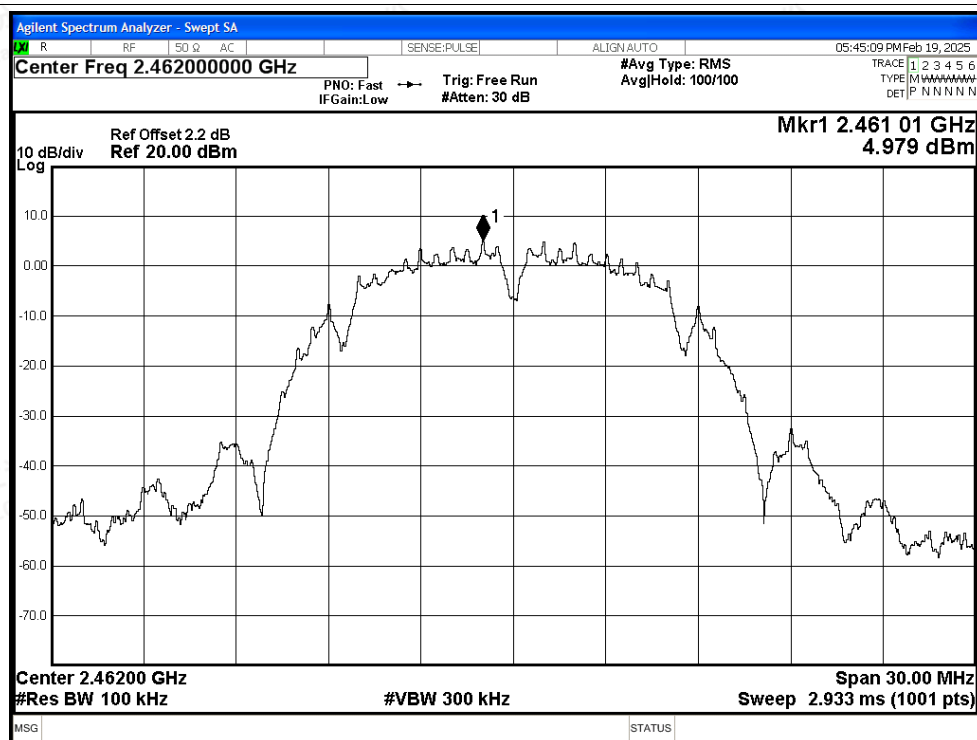


## Band Edge NVNT b 2412MHz Ant1 Emission

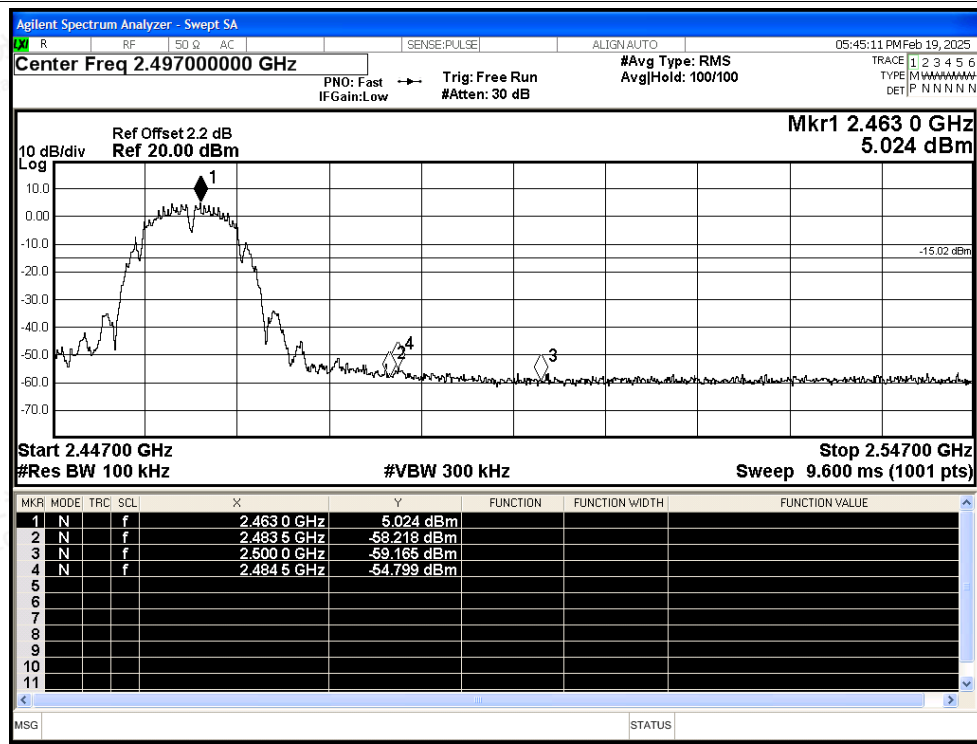




## Band Edge NVNT b 2462MHz Ant1 Ref

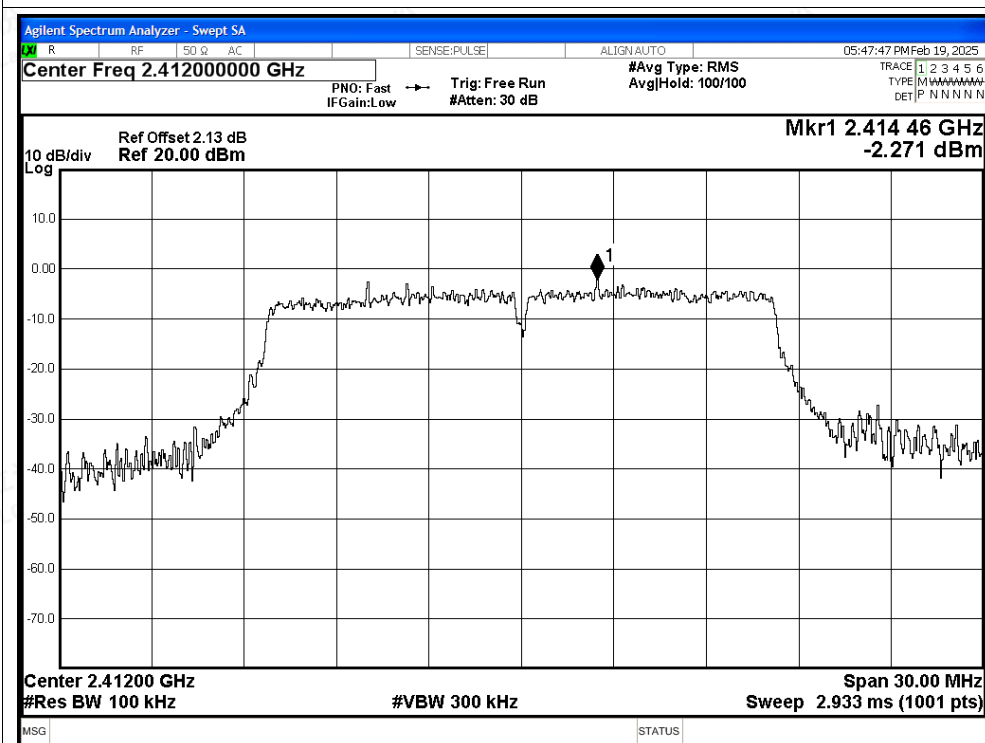


## Band Edge NVNT b 2462MHz Ant1 Emission

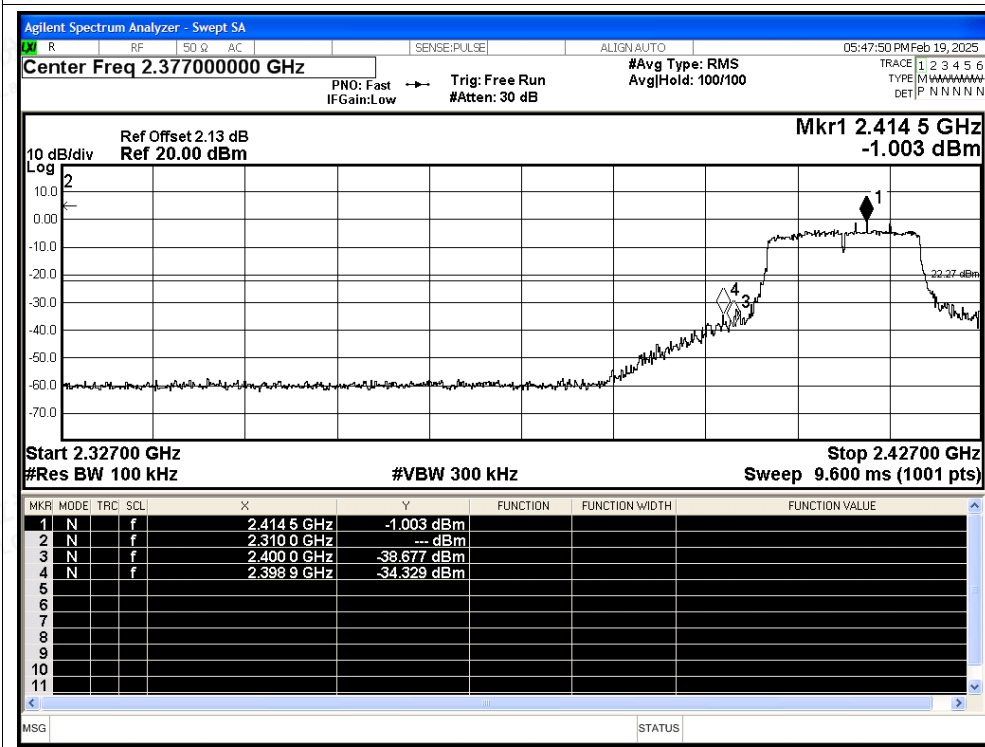




## Band Edge NVNT g 2412MHz Ant1 Ref

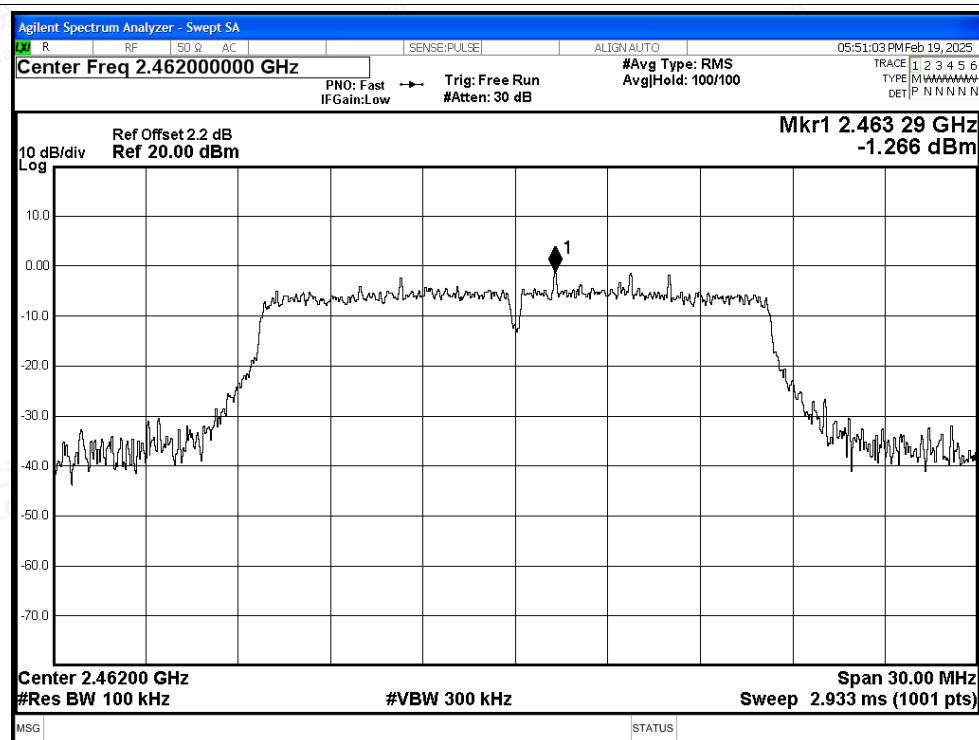


## Band Edge NVNT g 2412MHz Ant1 Emission

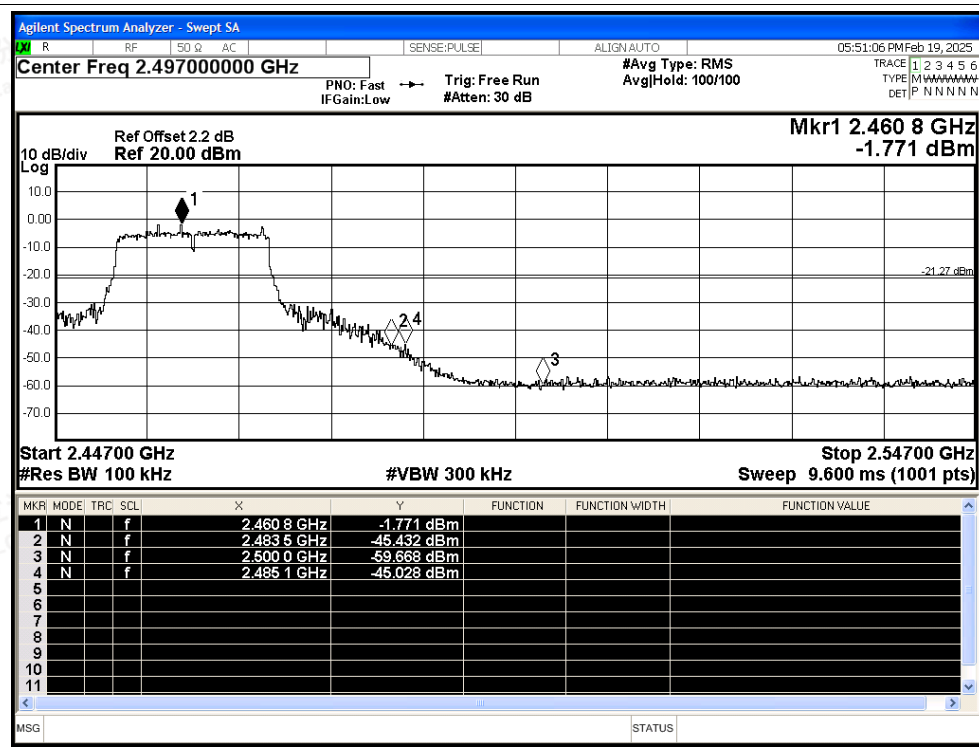




## Band Edge NVNT g 2462MHz Ant1 Ref

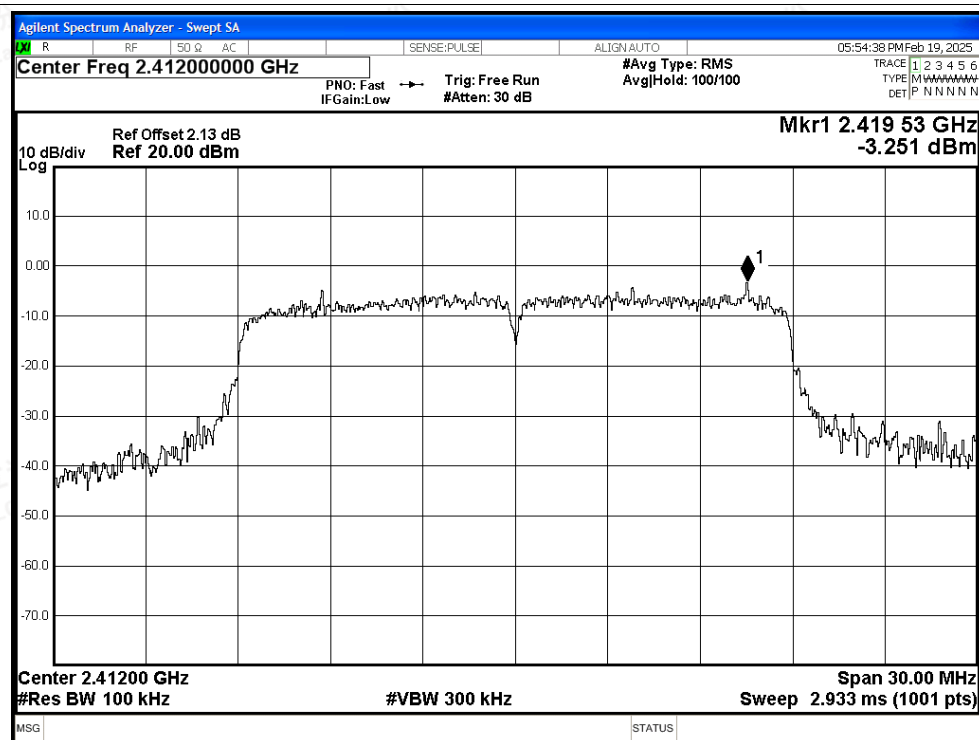


## Band Edge NVNT g 2462MHz Ant1 Emission

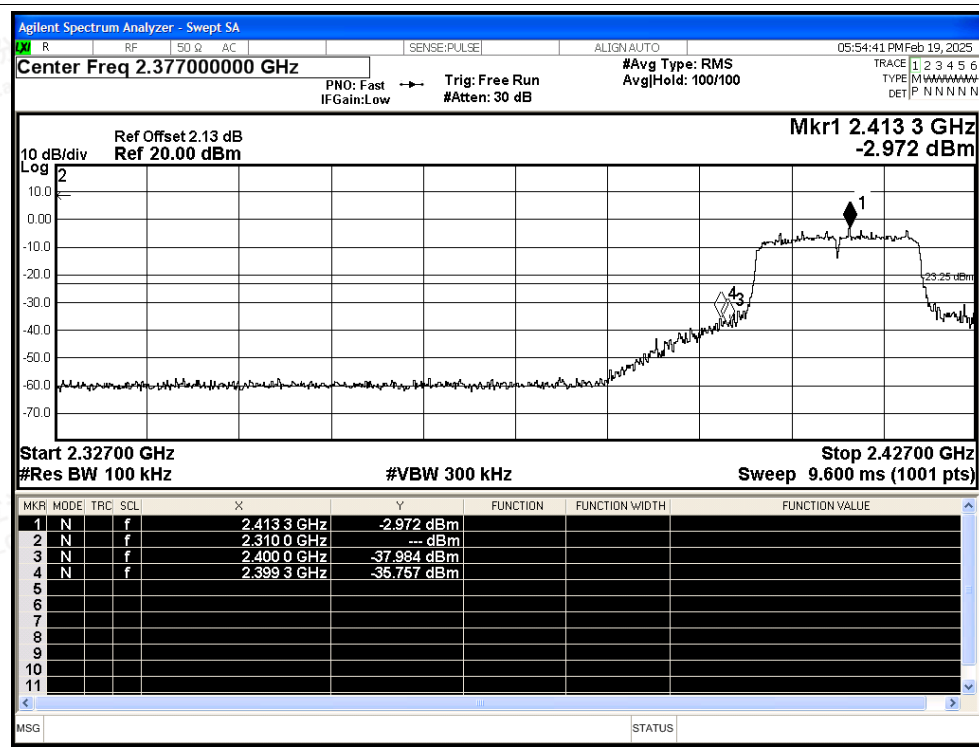




## Band Edge NVNT n20 2412MHz Ant1 Ref

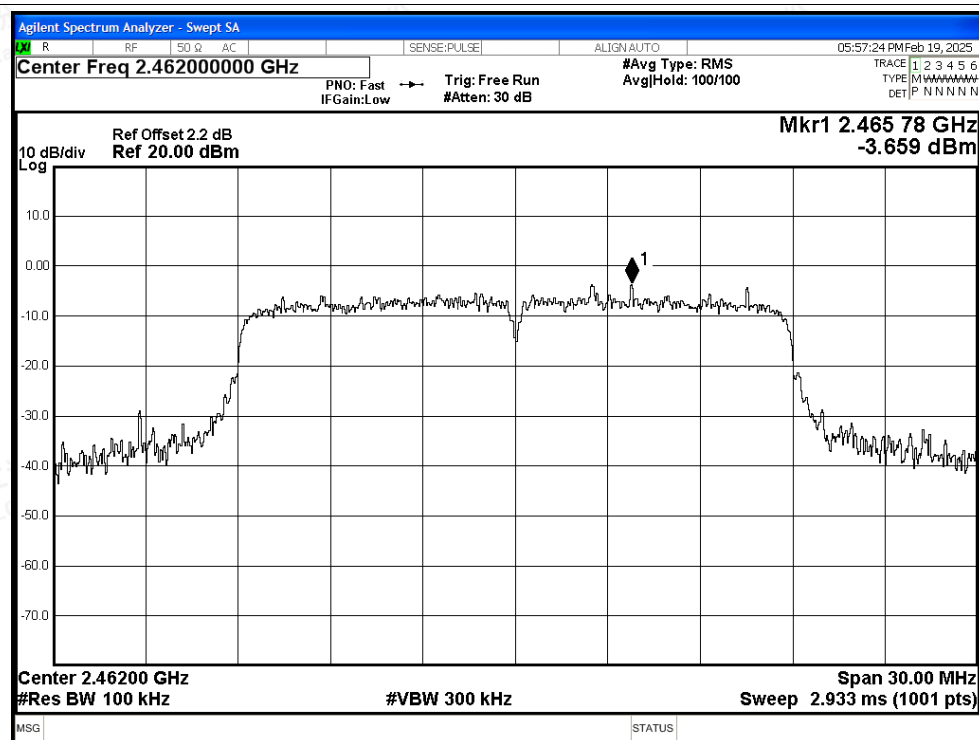


## Band Edge NVNT n20 2412MHz Ant1 Emission

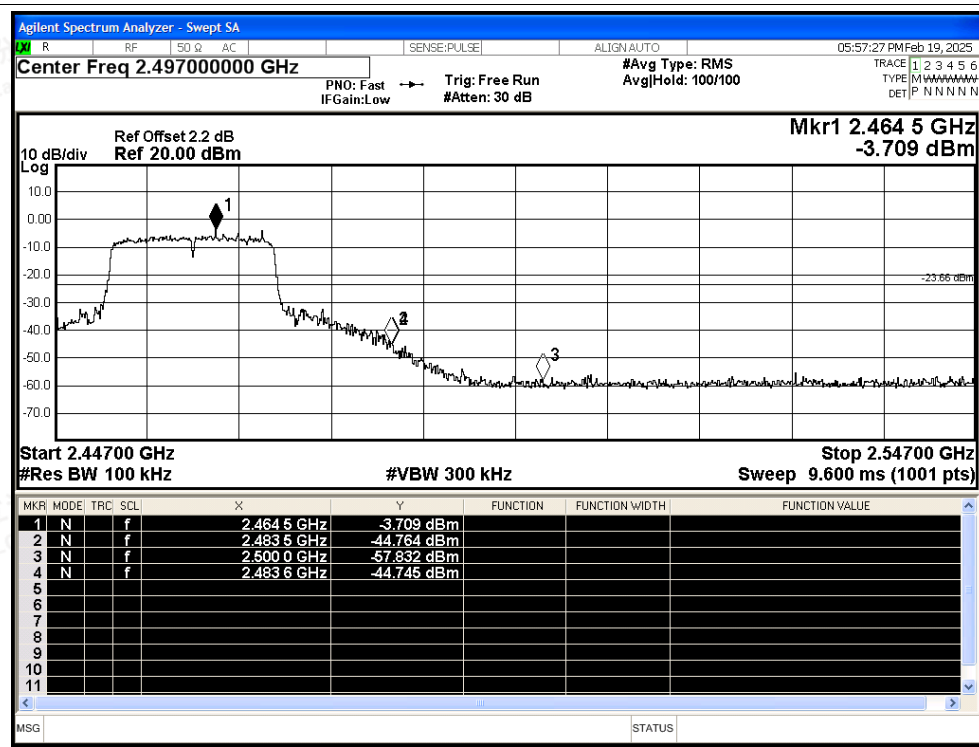




## Band Edge NVNT n20 2462MHz Ant1 Ref



## Band Edge NVNT n20 2462MHz Ant1 Emission





## C.5 Conducted RF Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -51.66          | -20         | Pass    |
| NVNT      | b    | 2437            | Ant1    | -50.8           | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -50.76          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -45.43          | -20         | Pass    |
| NVNT      | g    | 2437            | Ant1    | -43.92          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -44.23          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -42.2           | -20         | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -42.29          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -42.13          | -20         | Pass    |



Shenzhen LCS Compliance Testing Laboratory Ltd.  
Add: 101, 201 Bldg A & 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

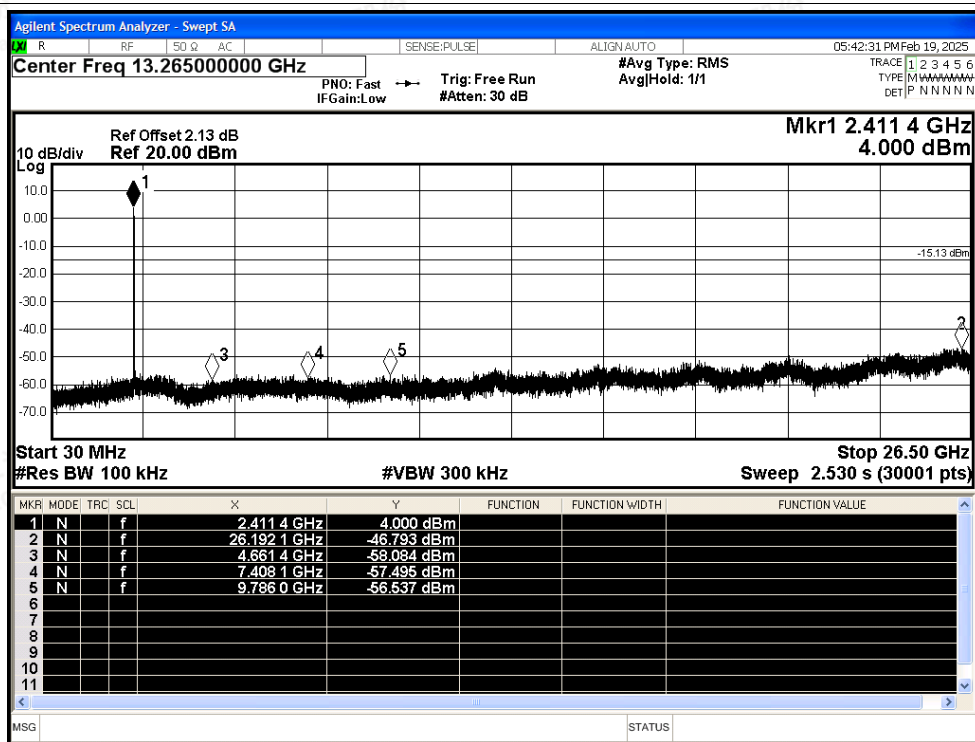


## Test Graphs

## Tx. Spurious NVNT b 2412MHz Ant1 Ref

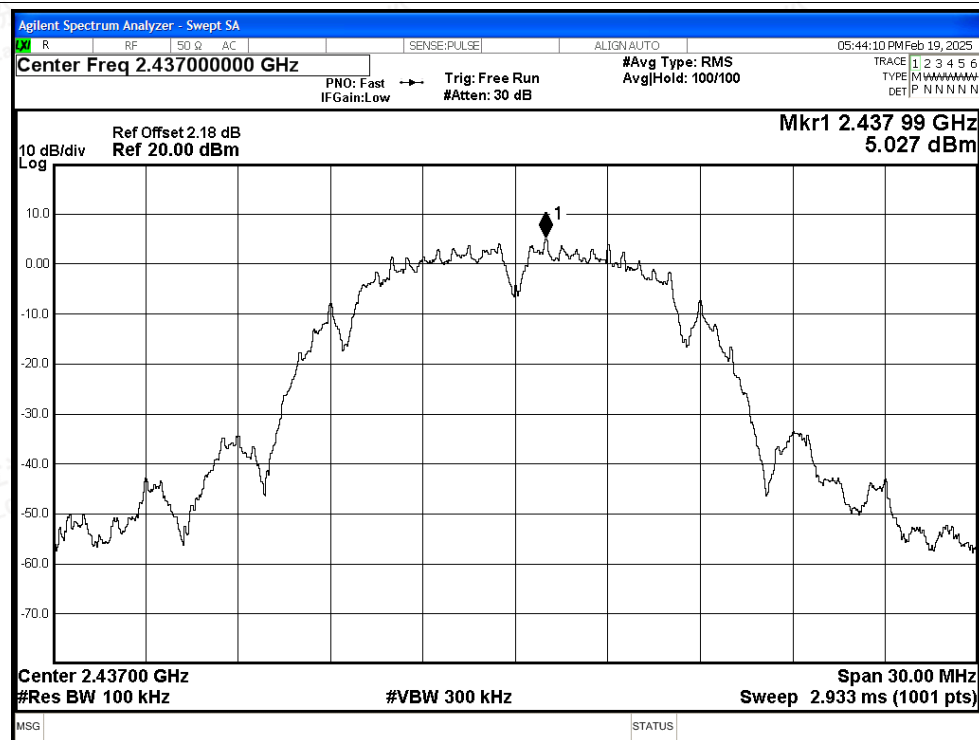


## Tx. Spurious NVNT b 2412MHz Ant1 Emission

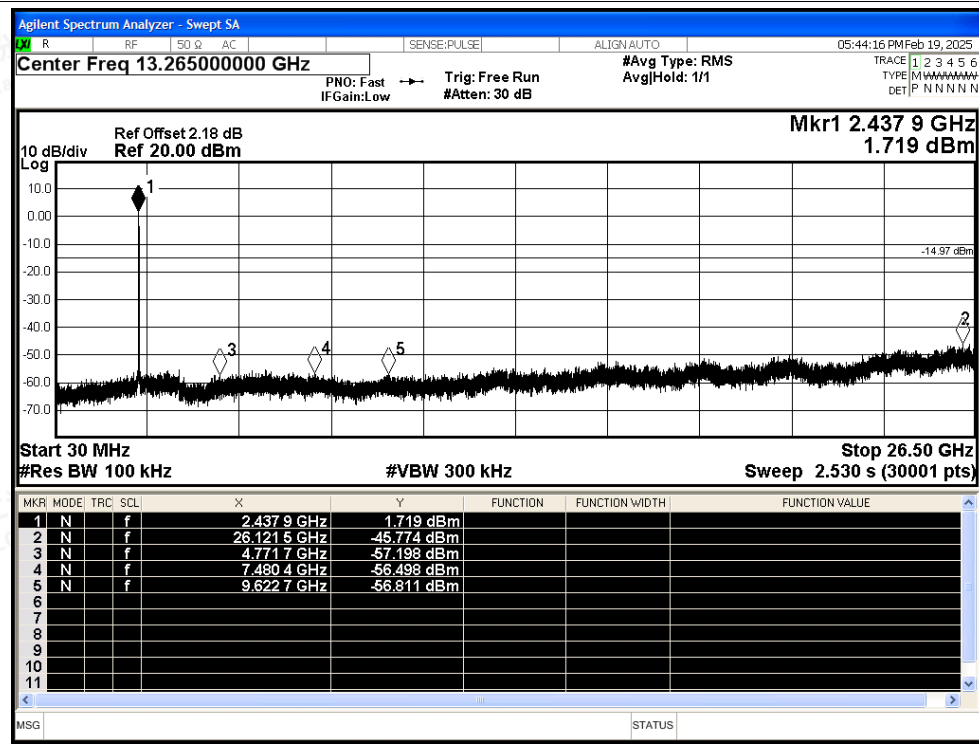




## Tx. Spurious NVNT b 2437MHz Ant1 Ref

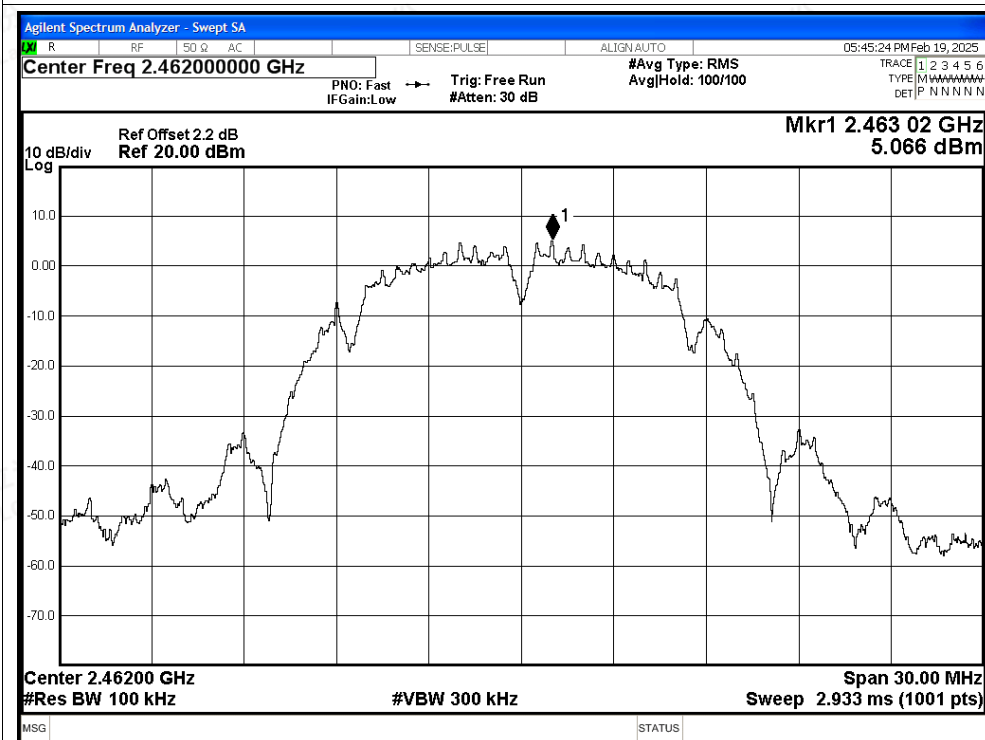


## Tx. Spurious NVNT b 2437MHz Ant1 Emission

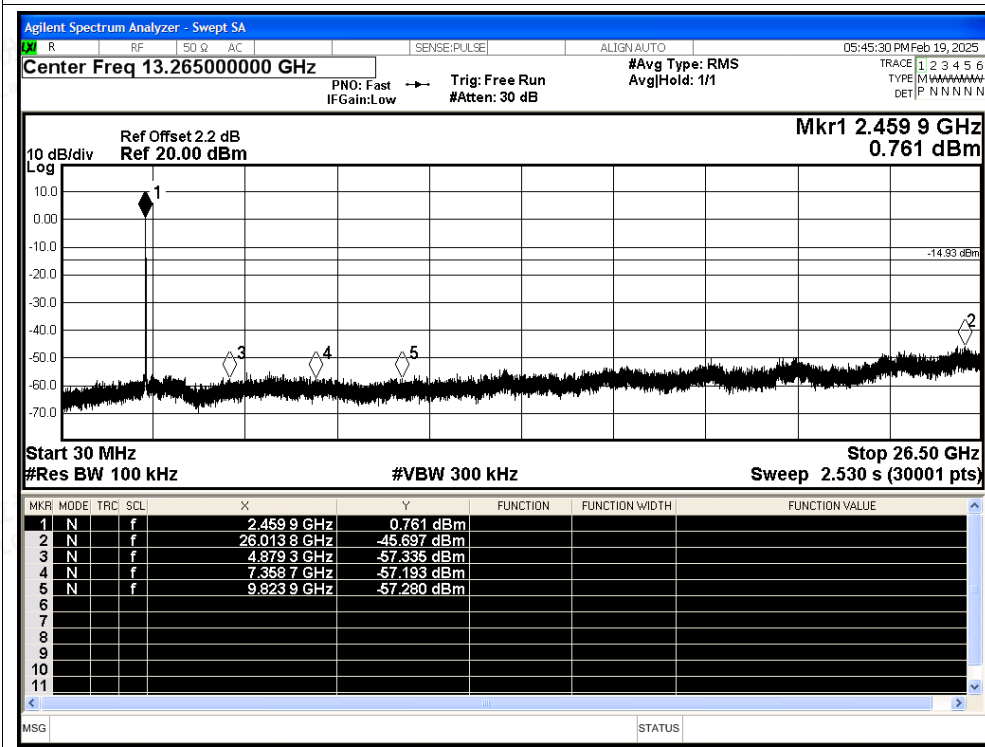




## Tx. Spurious NVNT b 2462MHz Ant1 Ref

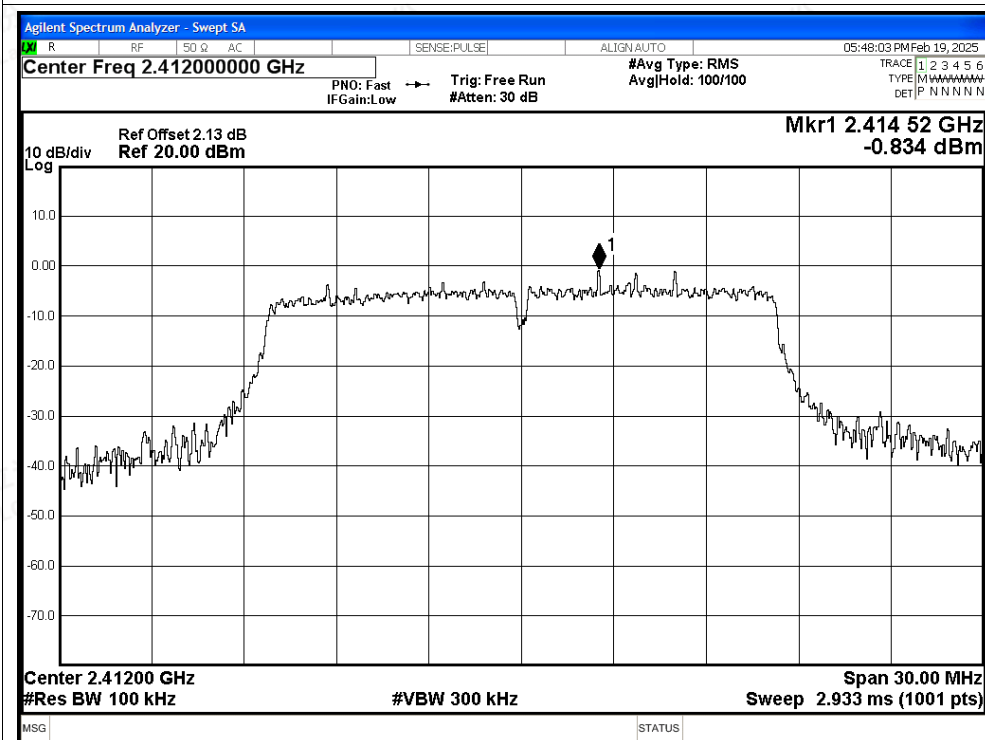


## Tx. Spurious NVNT b 2462MHz Ant1 Emission

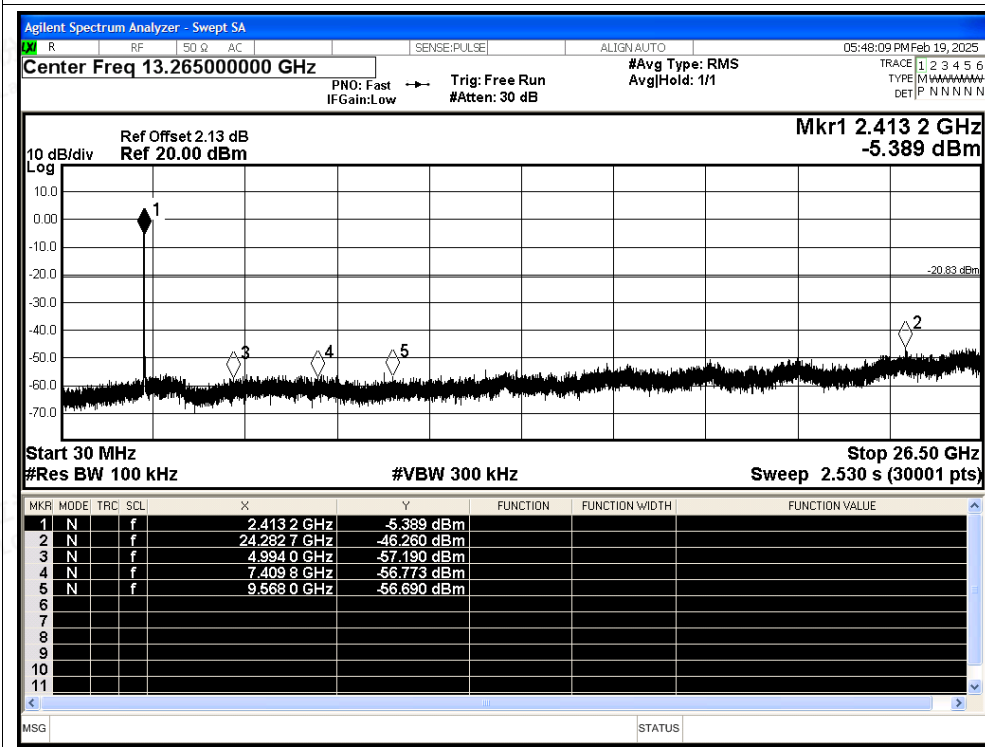




## Tx. Spurious NVNT g 2412MHz Ant1 Ref

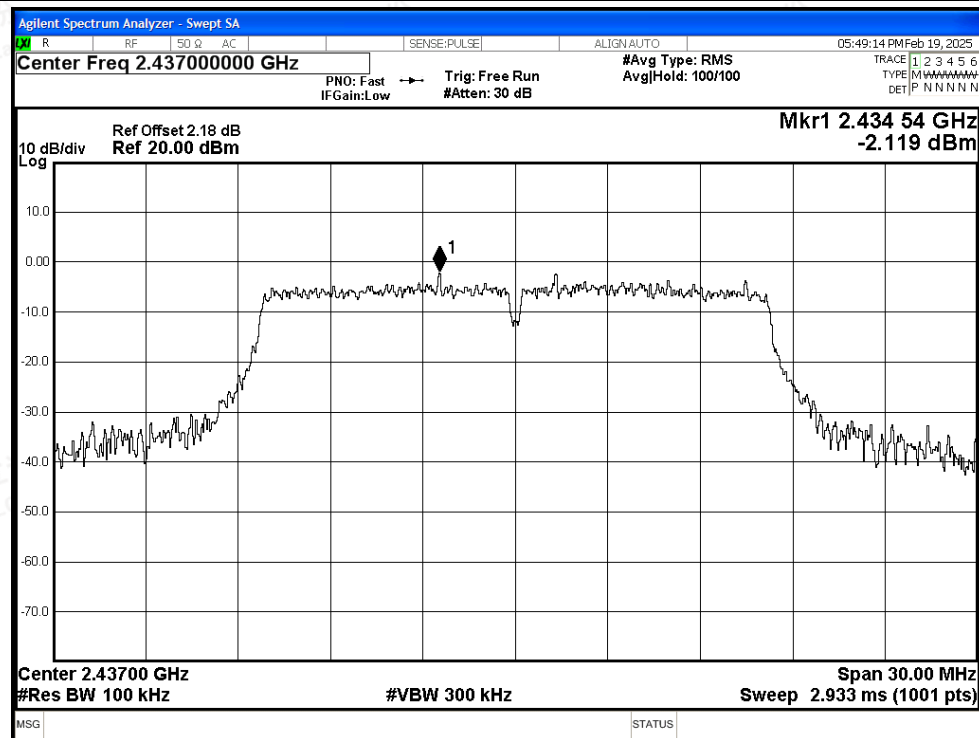


## Tx. Spurious NVNT g 2412MHz Ant1 Emission

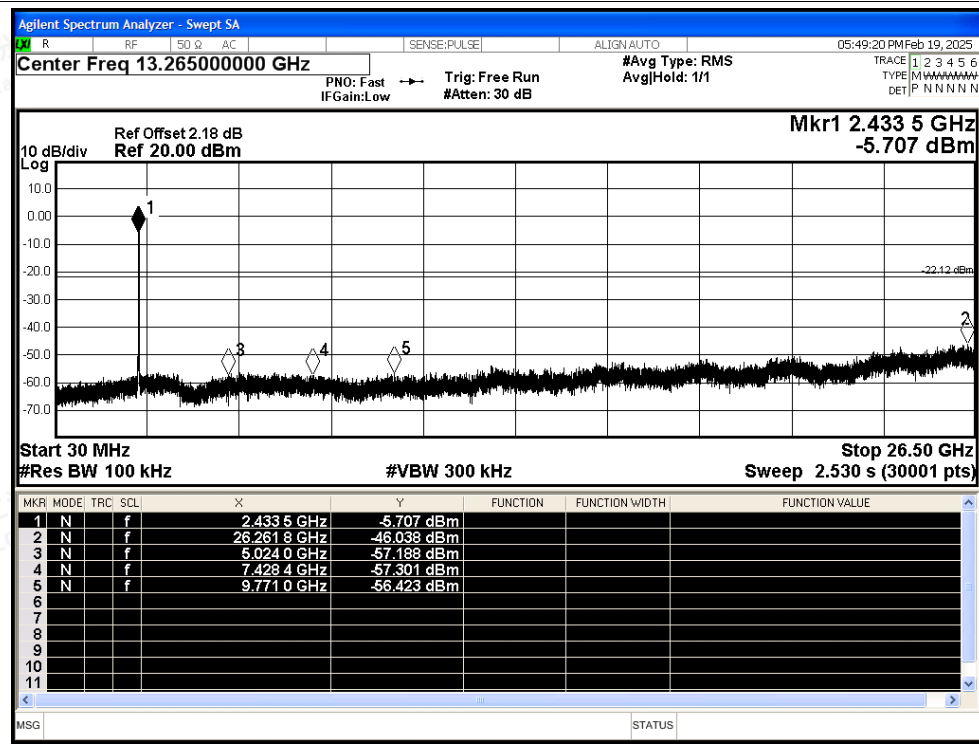




## Tx. Spurious NVNT g 2437MHz Ant1 Ref

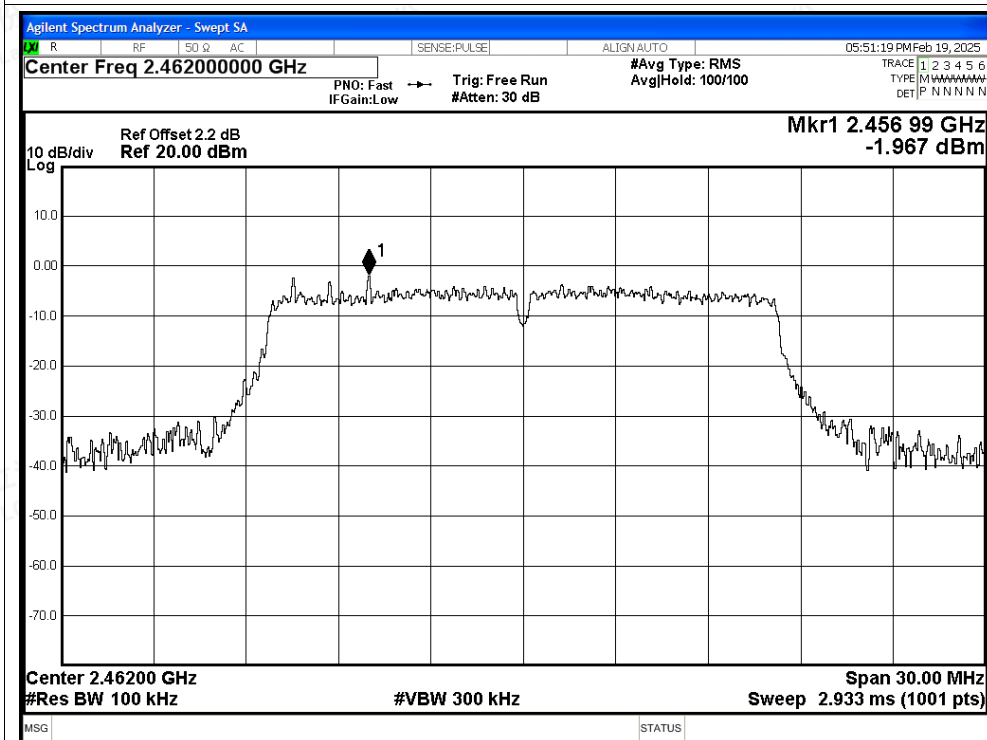


## Tx. Spurious NVNT g 2437MHz Ant1 Emission

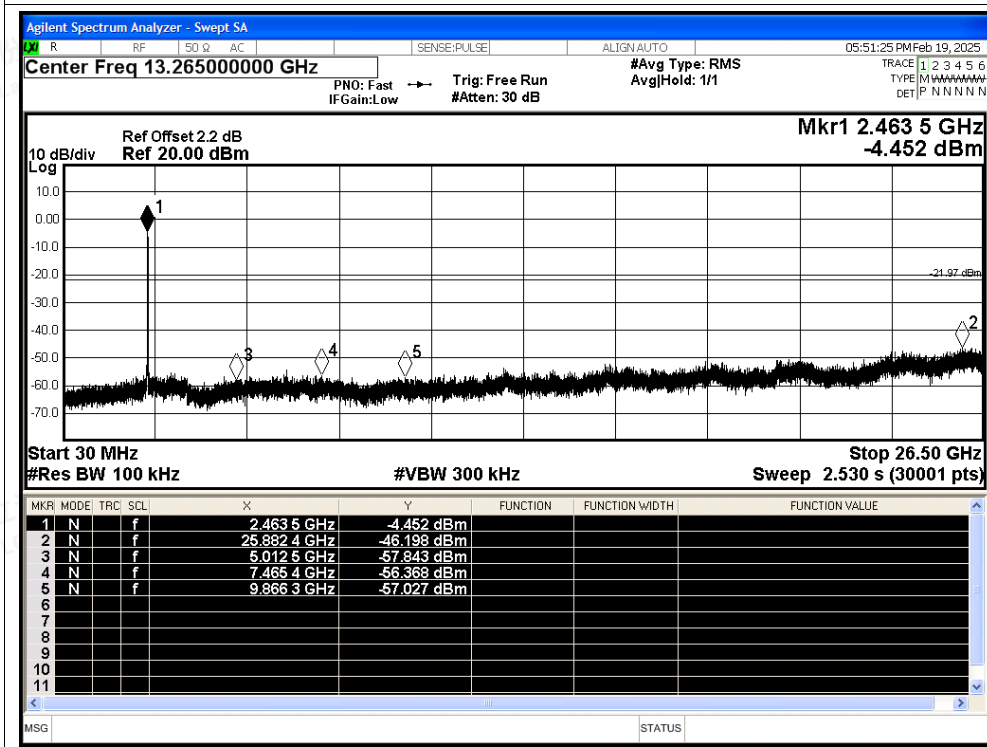




## Tx. Spurious NVNT g 2462MHz Ant1 Ref

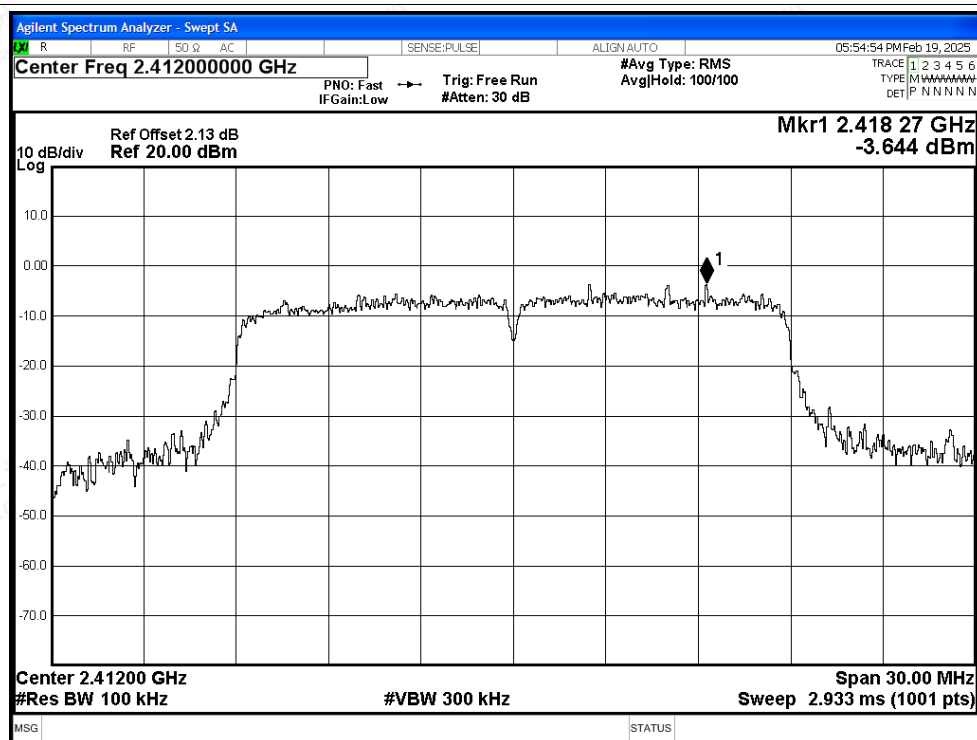


## Tx. Spurious NVNT g 2462MHz Ant1 Emission

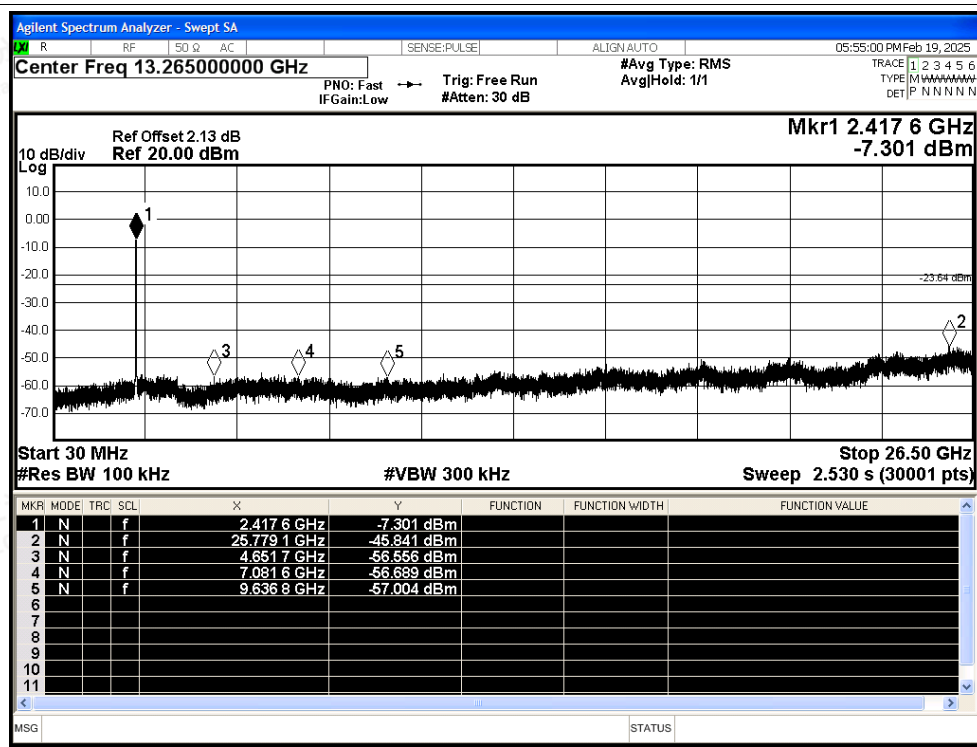




## Tx. Spurious NVNT n20 2412MHz Ant1 Ref

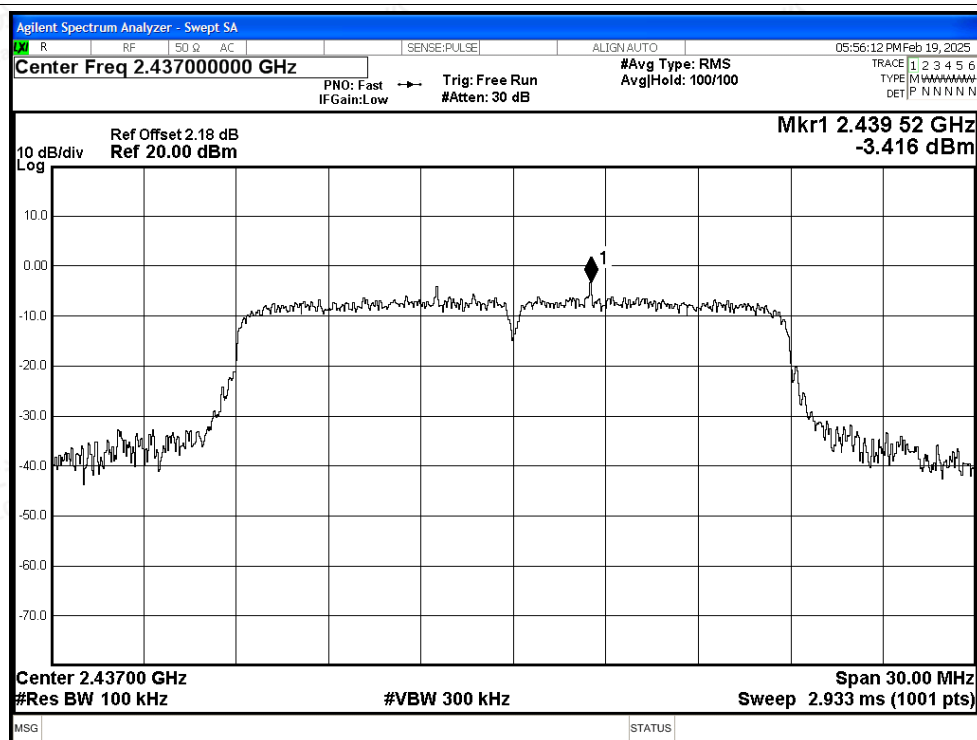


## Tx. Spurious NVNT n20 2412MHz Ant1 Emission

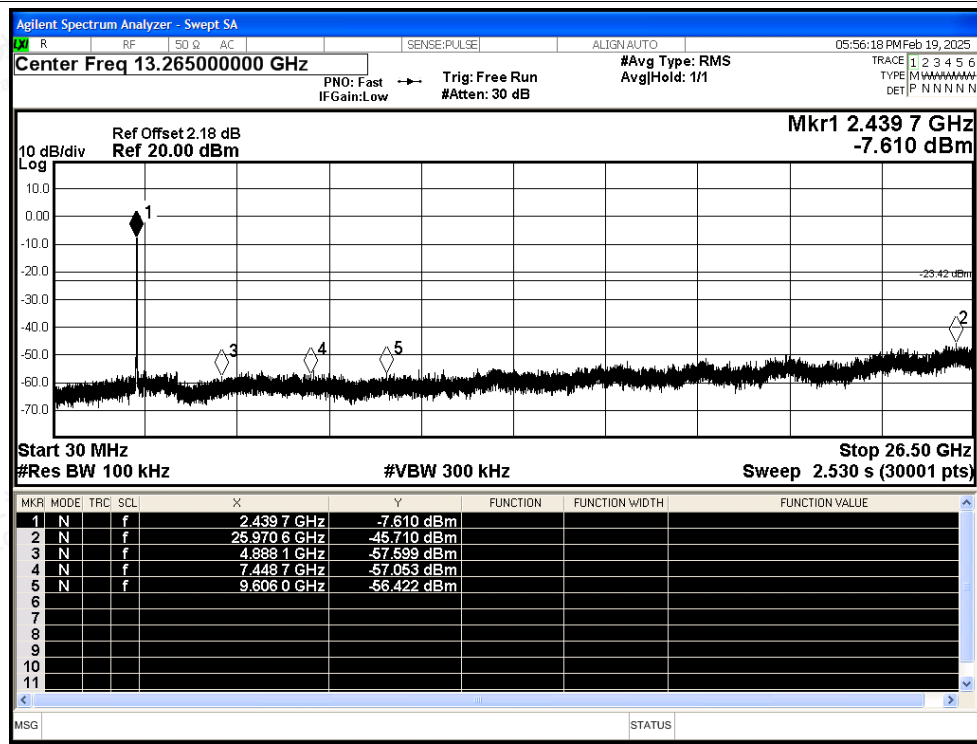




## Tx. Spurious NVNT n20 2437MHz Ant1 Ref

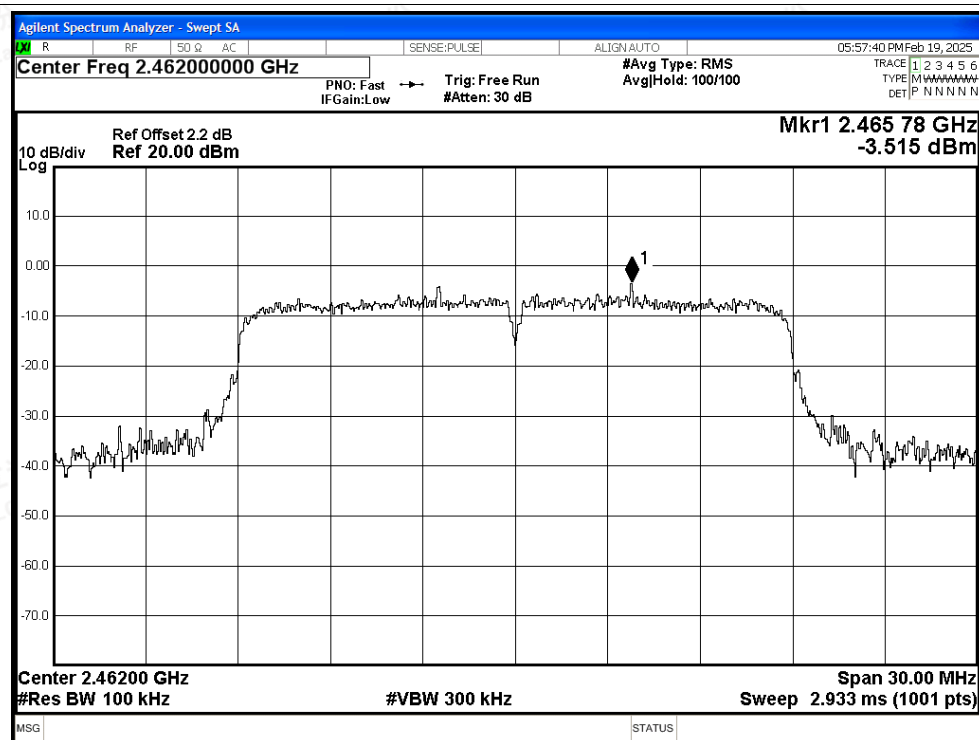


## Tx. Spurious NVNT n20 2437MHz Ant1 Emission

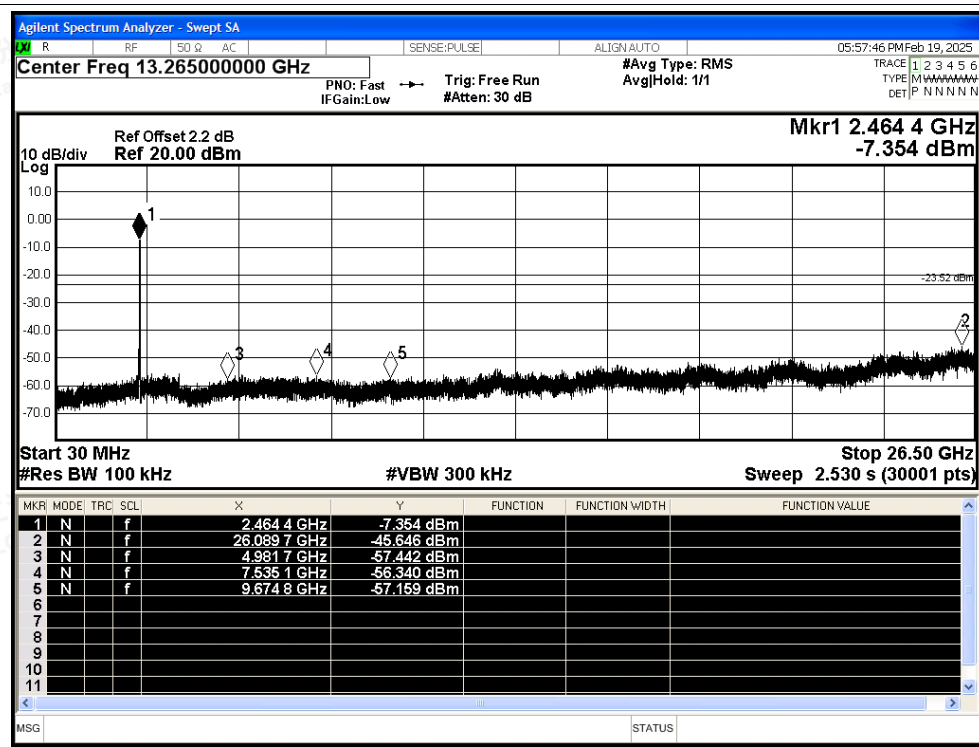




## Tx. Spurious NVNT n20 2462MHz Ant1 Ref



## Tx. Spurious NVNT n20 2462MHz Ant1 Emission





## C.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    | 97.75          | 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    | 97.25          | 0.12                   | 0.44      |

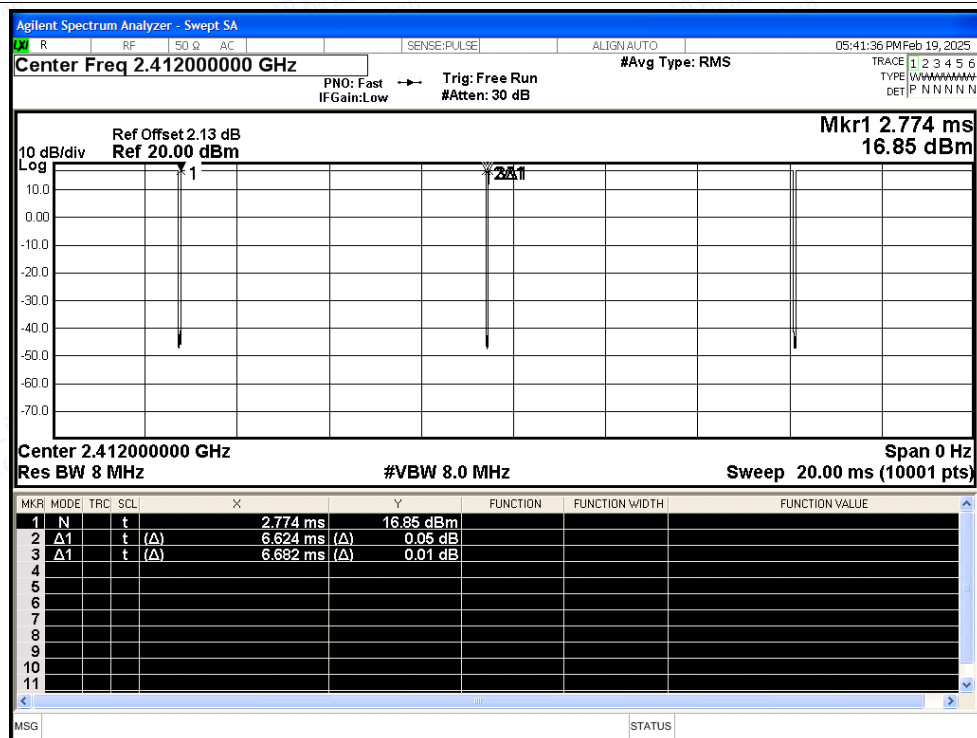


Shenzhen LCS Compliance Testing Laboratory Ltd.  
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street,  
Baoan District, Shenzhen, 518000, China  
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
Scan code to check authenticity

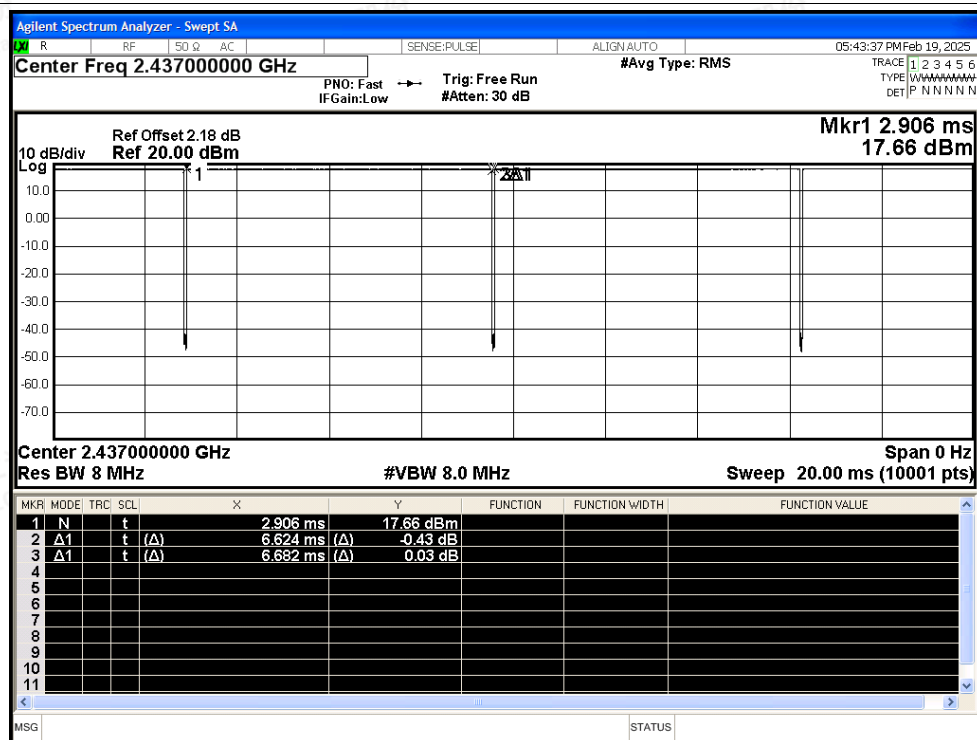


## Test Graphs

## Duty Cycle NVNT b 2412MHz Ant1

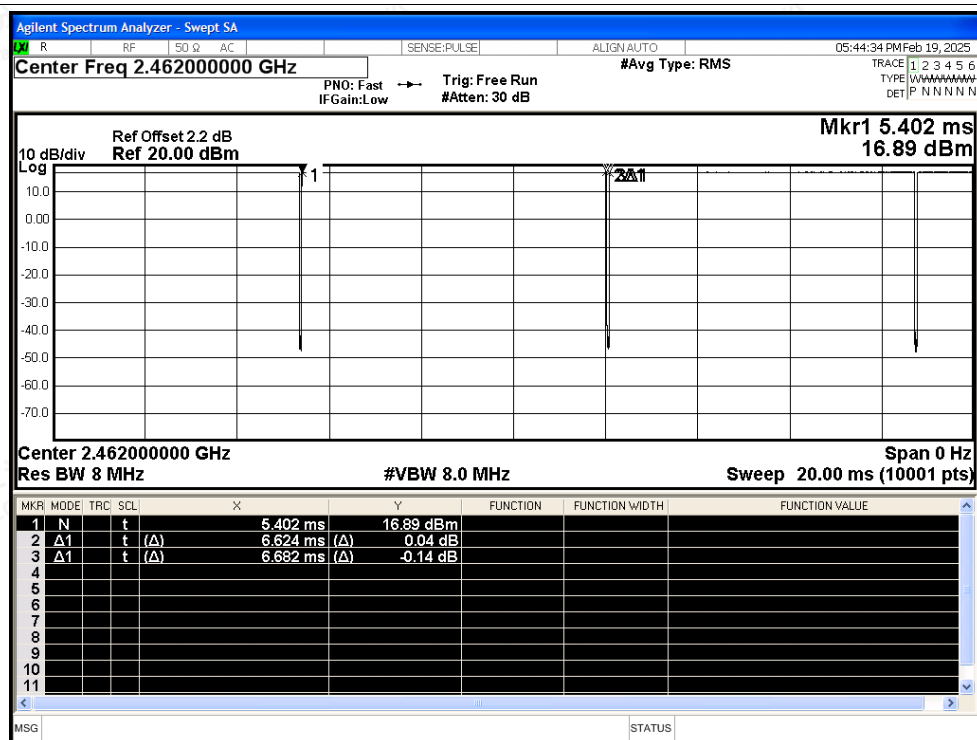


## Duty Cycle NVNT b 2437MHz Ant1

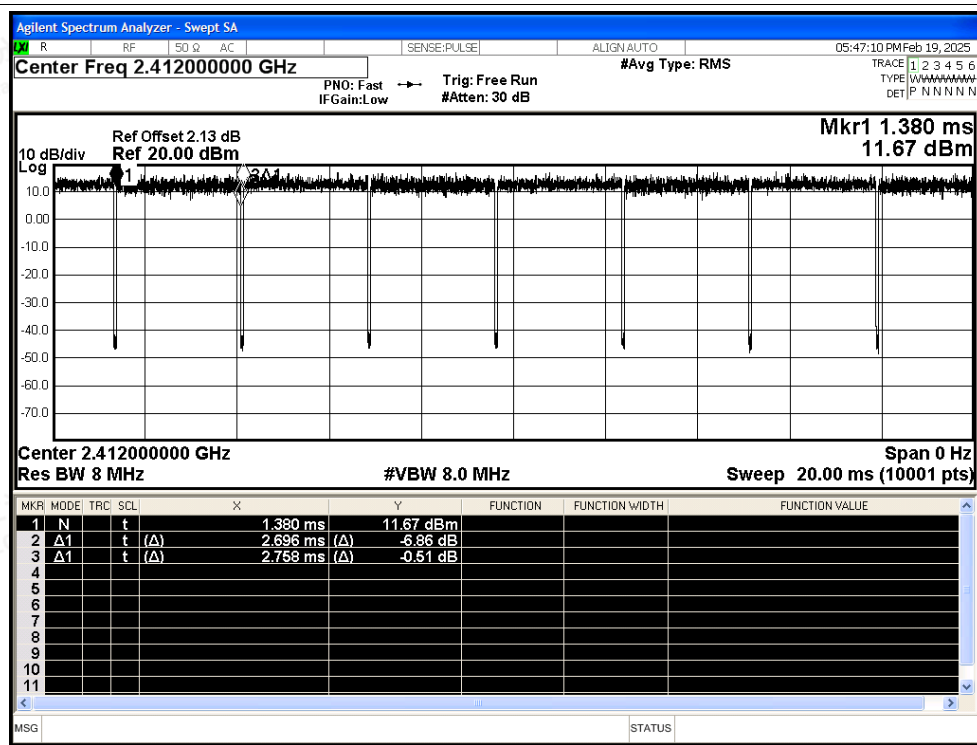




## Duty Cycle NVNT b 2462MHz Ant1

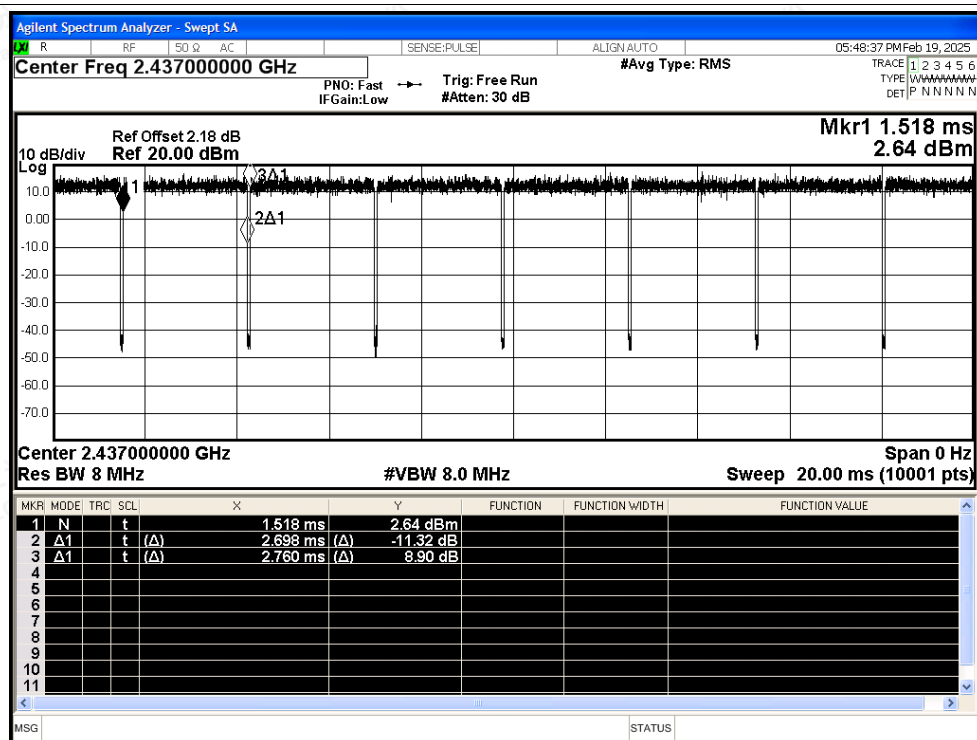


## Duty Cycle NVNT g 2412MHz Ant1

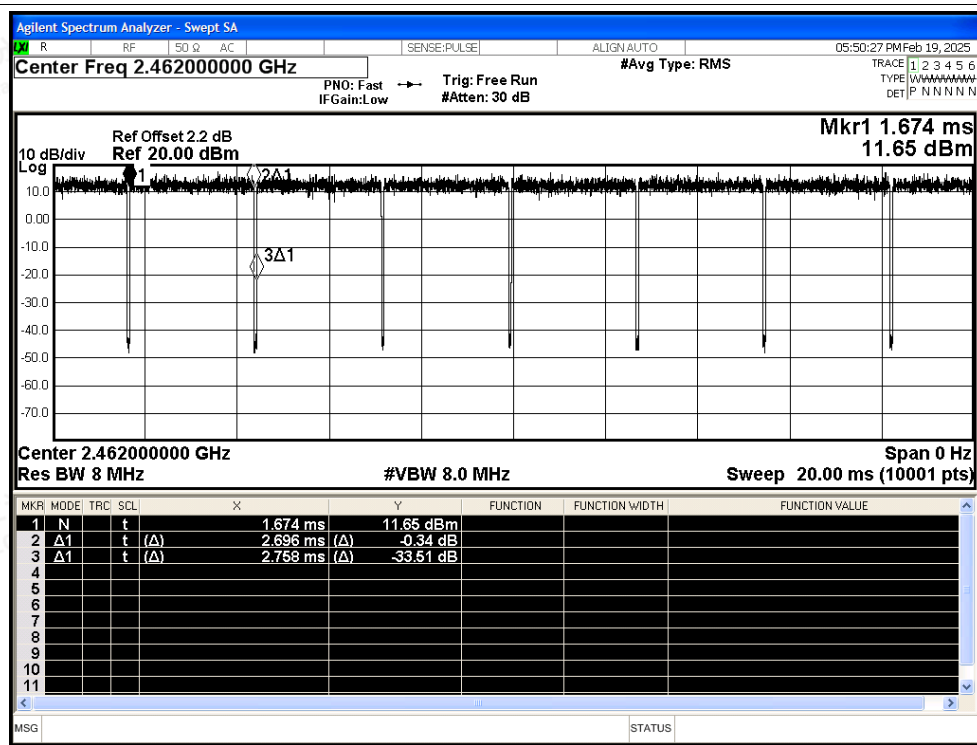




## Duty Cycle NVNT g 2437MHz Ant1

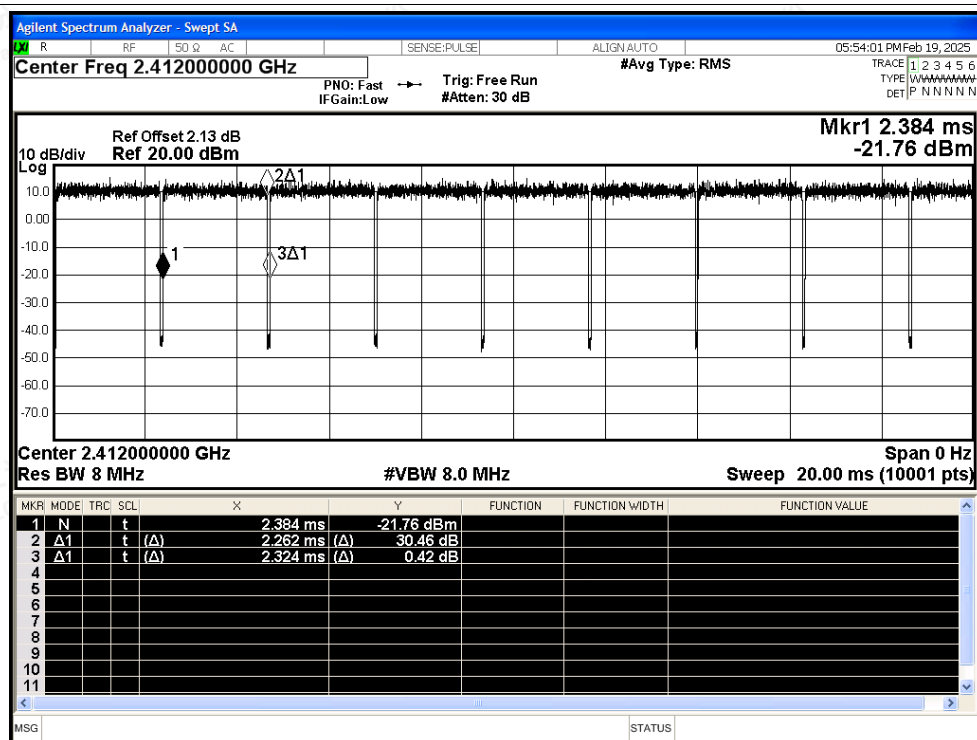


## Duty Cycle NVNT g 2462MHz Ant1

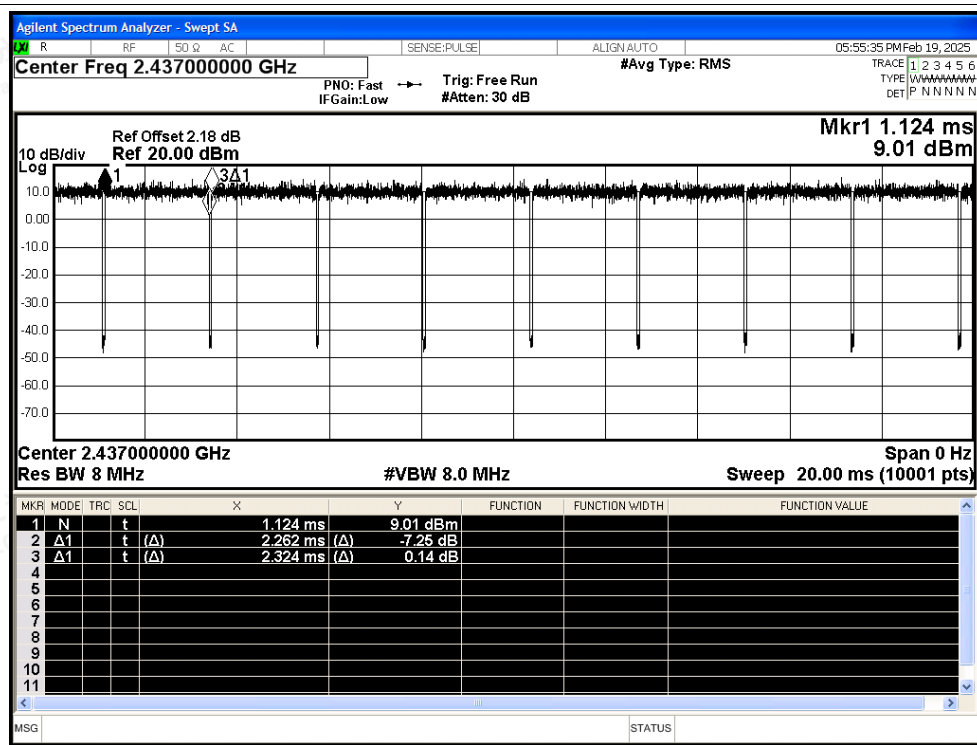


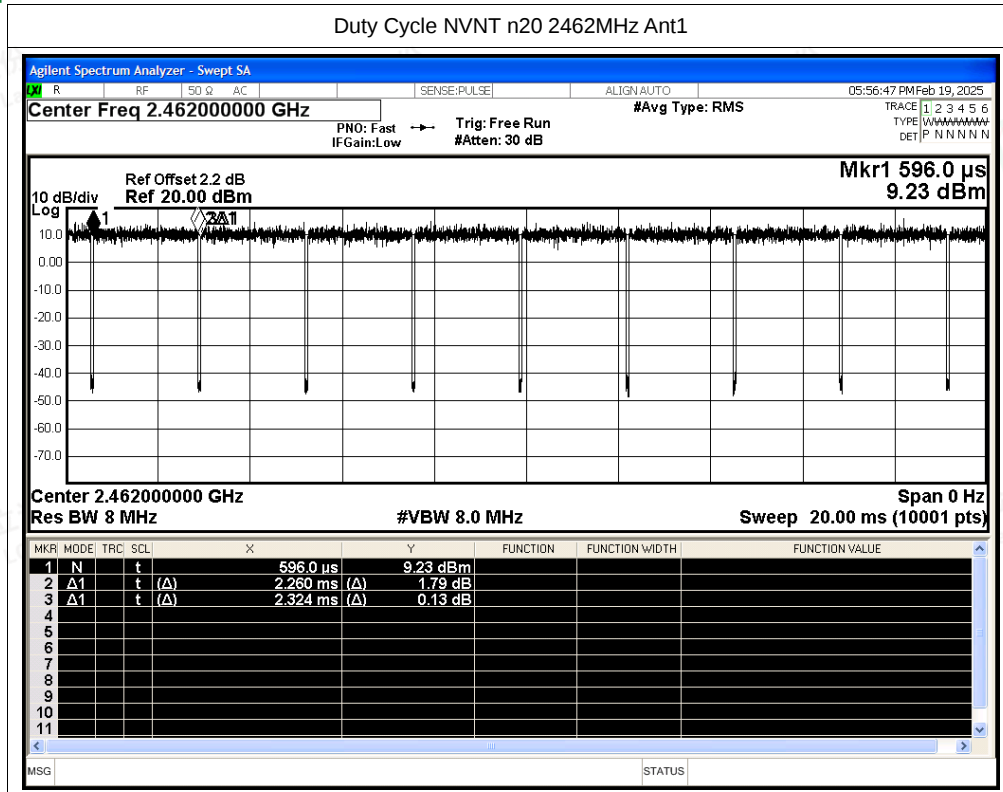


## Duty Cycle NVNT n20 2412MHz Ant1



## Duty Cycle NVNT n20 2437MHz Ant1







## C.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            | -50.88      | 2.66       | -                | 47.04      | Peak     | 74             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2310            | -58.39      | 2.66       | 0                | 39.53      | Average  | 54             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2372.712        | -47.19      | 2.66       | -                | 50.73      | Peak     | 74             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2389.326        | -55.55      | 2.66       | 0                | 42.37      | Average  | 54             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2390            | -47.23      | 2.66       | -                | 50.69      | Peak     | 74             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2390            | -56.83      | 2.66       | 0                | 41.09      | Average  | 54             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2483.5          | -45.87      | 2.66       | -                | 52.05      | Peak     | 74             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2483.5          | -55.72      | 2.66       | 0                | 42.20      | Average  | 54             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2483.888        | -43.3       | 2.66       | -                | 54.62      | Peak     | 74             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2484.789        | -53.87      | 2.66       | 0                | 44.05      | Average  | 54             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2500            | -48.71      | 2.66       | -                | 49.21      | Peak     | 74             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2500            | -58.03      | 2.66       | 0                | 39.89      | Average  | 54             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2310            | -50.14      | 2.66       | -                | 47.78      | Peak     | 74             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2310            | -58.32      | 2.66       | 0.1              | 39.70      | Average  | 54             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2388.975        | -37.55      | 2.66       | -                | 60.37      | Peak     | 74             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2389.56         | -52.67      | 2.66       | 0.1              | 45.35      | Average  | 54             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2390            | -40.78      | 2.66       | -                | 57.14      | Peak     | 74             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2390            | -54.41      | 2.66       | 0.1              | 43.61      | Average  | 54             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2483.5          | -36.92      | 2.66       | -                | 61.00      | Peak     | 74             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2483.5          | -54.81      | 2.66       | 0.1              | 43.21      | Average  | 54             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2483.835        | -36.01      | 2.66       | -                | 61.91      | Peak     | 74             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2483.676        | -52.77      | 2.66       | 0.1              | 45.25      | Average  | 54             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2500            | -50.69      | 2.66       | -                | 47.23      | Peak     | 74             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2500            | -57.75      | 2.66       | 0.1              | 40.27      | Average  | 54             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2310            | -50.58      | 2.66       | -                | 47.34      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2310            | -58.89      | 2.66       | 0.12             | 39.15      | Average  | 54             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2389.677        | -36.71      | 2.66       | -                | 61.21      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2389.56         | -53.45      | 2.66       | 0.12             | 44.59      | Average  | 54             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2390            | -39.07      | 2.66       | -                | 58.85      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2390            | -52.67      | 2.66       | 0.12             | 45.37      | Average  | 54             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2483.5          | -37.68      | 2.66       | -                | 60.24      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2483.5          | -52.26      | 2.66       | 0.12             | 45.78      | Average  | 54             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2484.948        | -35.21      | 2.66       | -                | 62.71      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2484.471        | -51.18      | 2.66       | 0.12             | 46.86      | Average  | 54             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2500            | -49.91      | 2.66       | -                | 48.01      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2500            | -57.68      | 2.66       | 0.12             | 40.36      | Average  | 54             | Pass    |

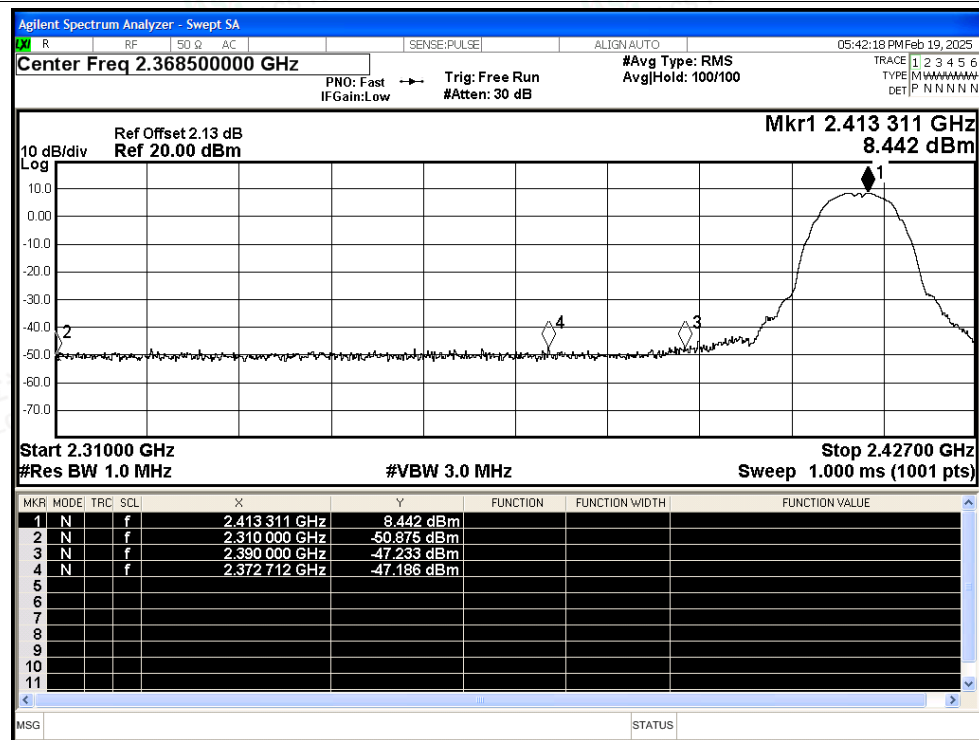


Shenzhen LCS Compliance Testing Laboratory Ltd.  
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street,  
Baoan District, Shenzhen, 518000, China  
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
Scan code to check authenticity

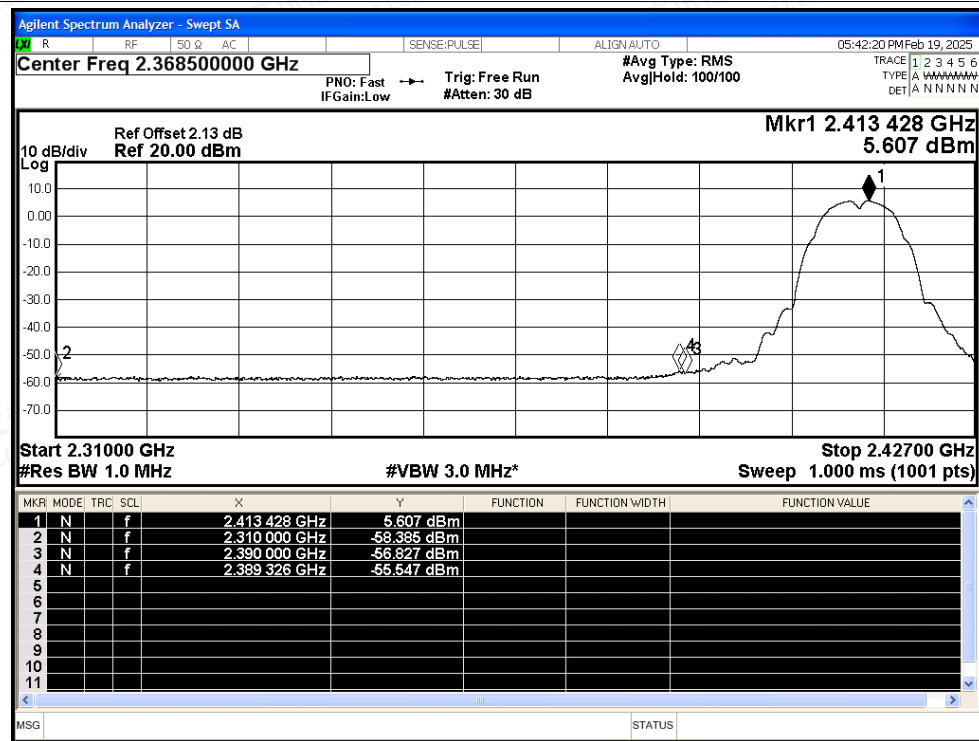


## Test Graphs

## Restrict Band NVNT b 2412MHz Ant1 Peak

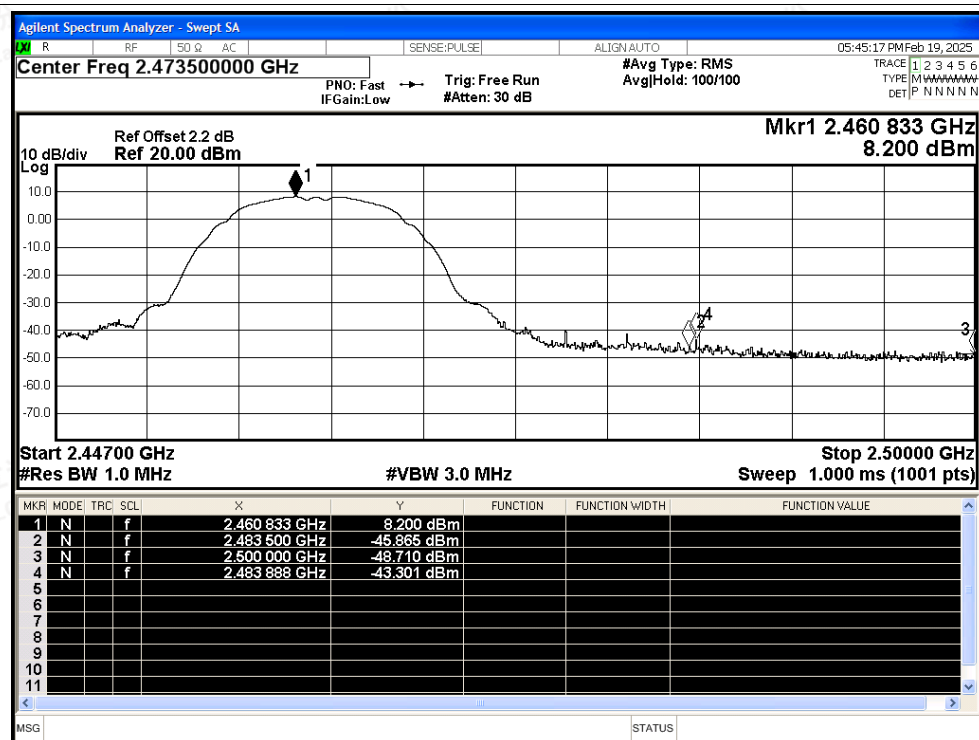


## Restrict Band NVNT b 2412MHz Ant1 Average

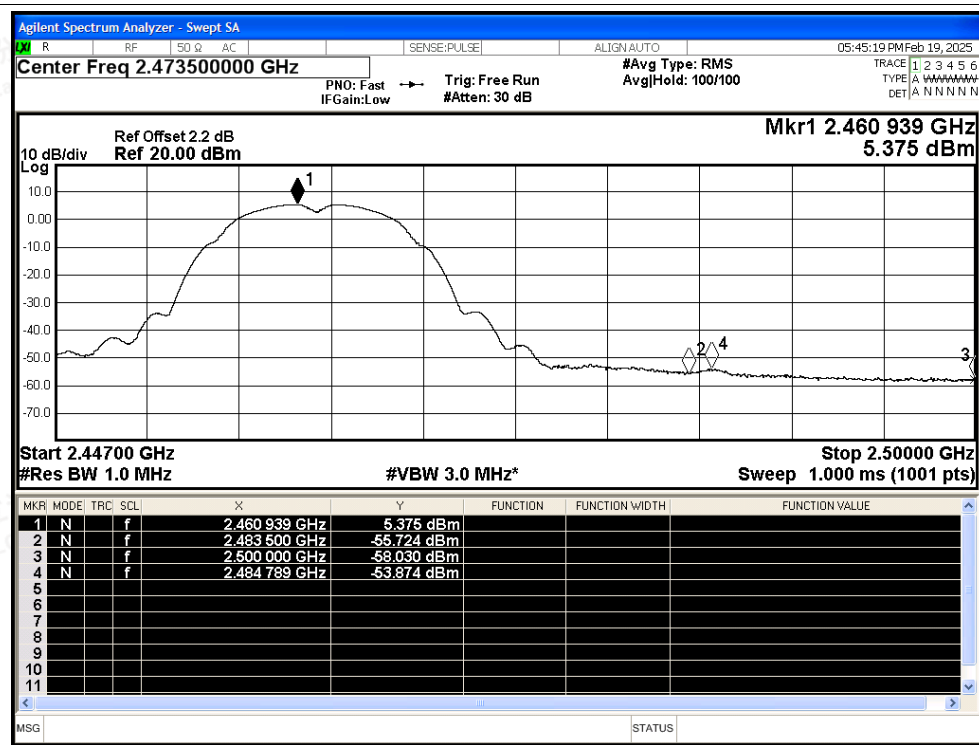




## Restrict Band NVNT b 2462MHz Ant1 Peak

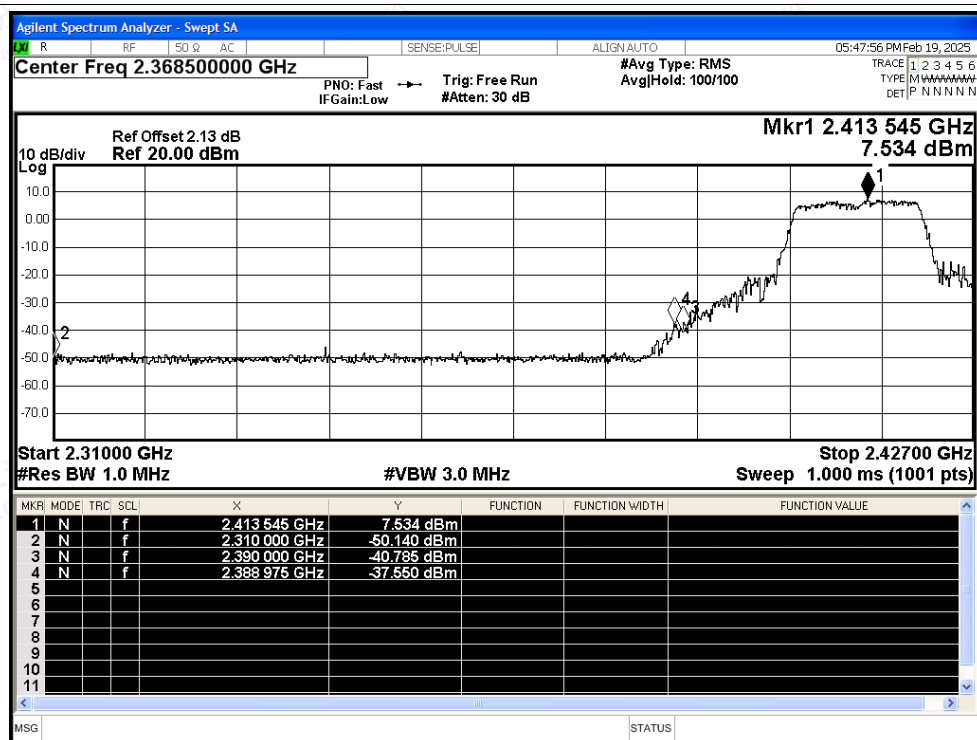


## Restrict Band NVNT b 2462MHz Ant1 Average

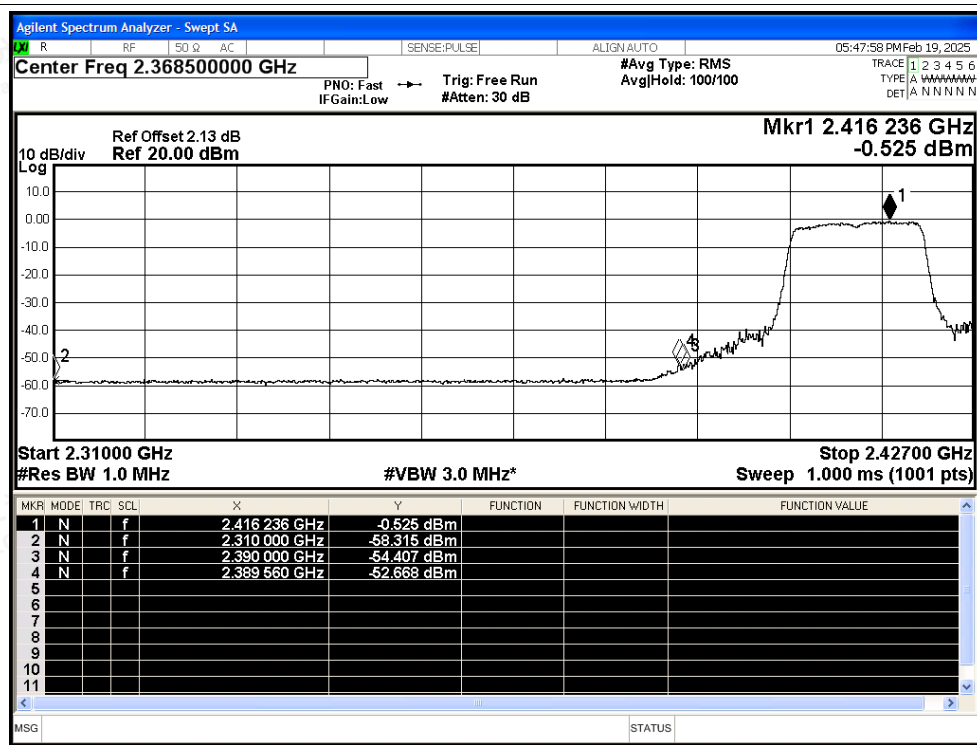




## Restrict Band NVNT g 2412MHz Ant1 Peak

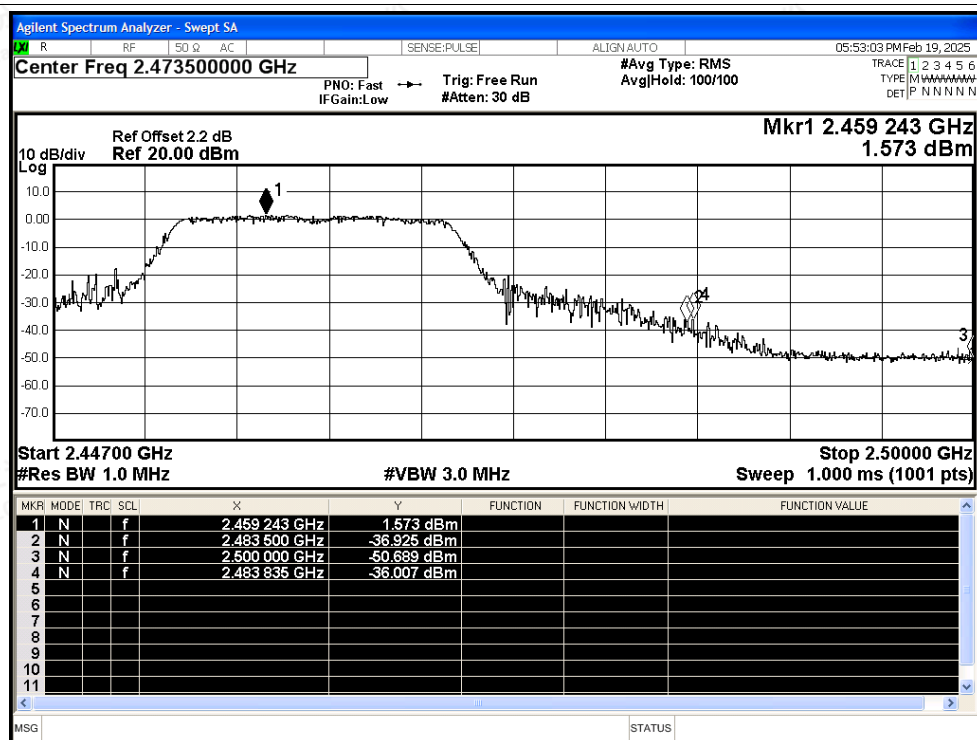


## Restrict Band NVNT g 2412MHz Ant1 Average

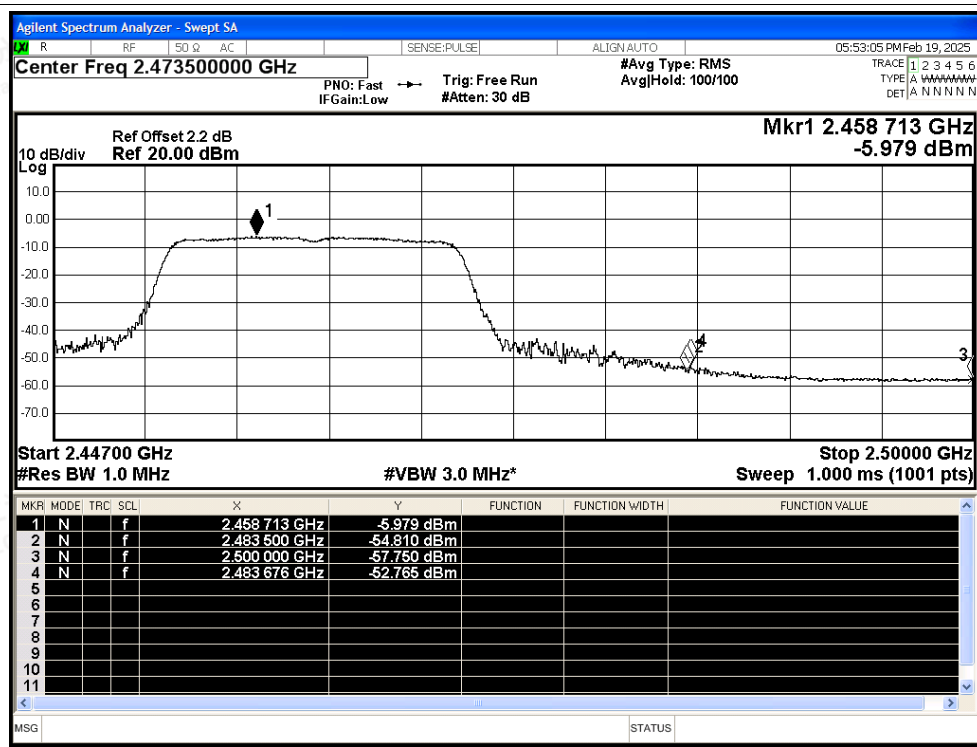




## Restrict Band NVNT g 2462MHz Ant1 Peak

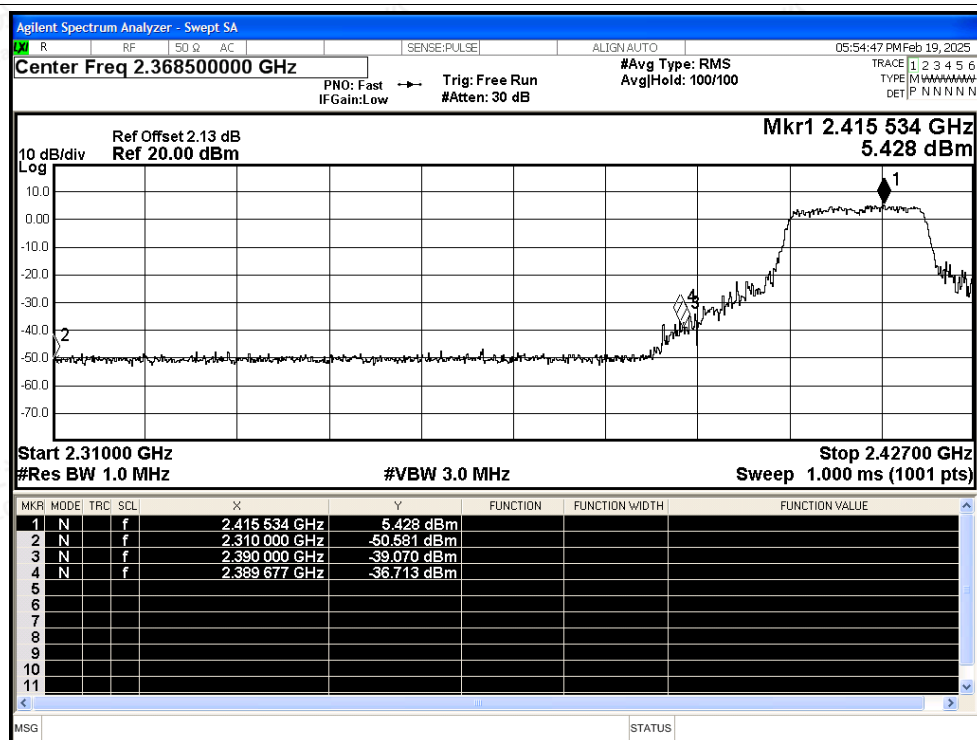


## Restrict Band NVNT g 2462MHz Ant1 Average

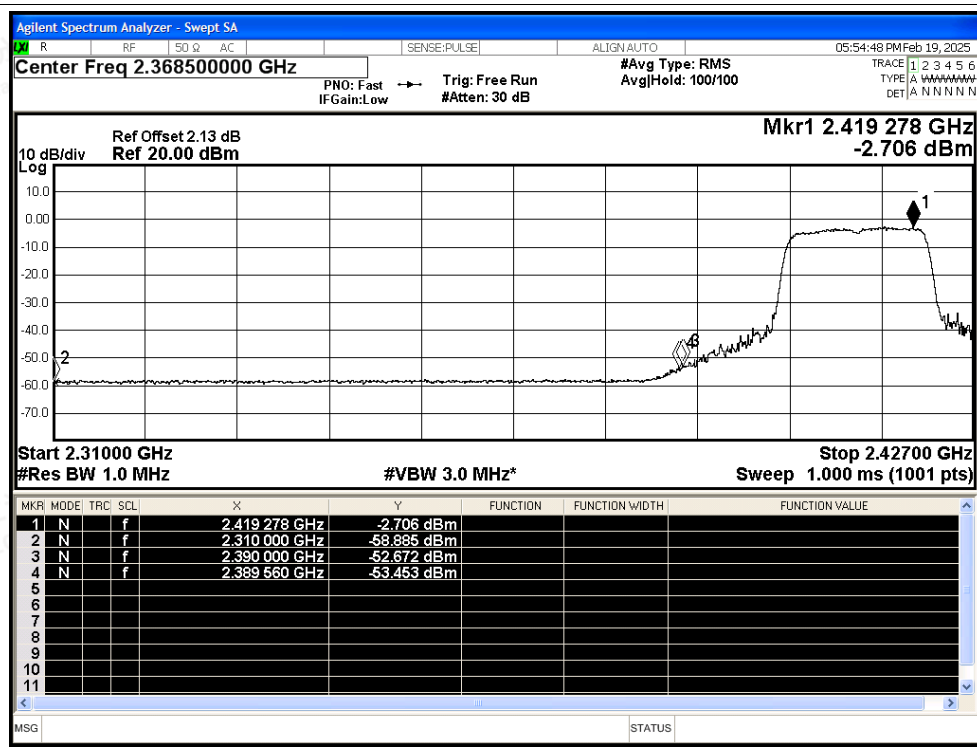




## Restrict Band NVNT n20 2412MHz Ant1 Peak

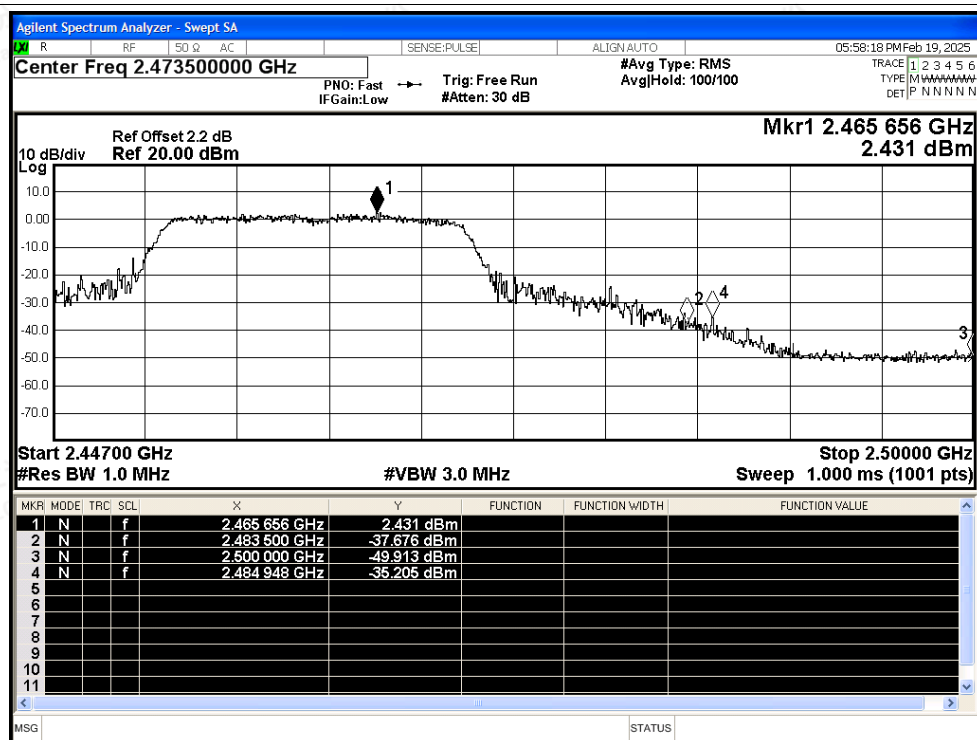


## Restrict Band NVNT n20 2412MHz Ant1 Average





## Restrict Band NVNT n20 2462MHz Ant1 Peak



## Restrict Band NVNT n20 2462MHz Ant1 Average

