

## Appendix B

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

Product Name: Smart Pet Feeder

Test Model: ACF800D

#### Environmental Conditions

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





## B.1 -6dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | b    | 2412            | Ant1    | 7.57                  | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2437            | Ant1    | 7.55                  | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2462            | Ant1    | 8.065                 | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2412            | Ant1    | 15.301                | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2437            | Ant1    | 16.338                | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2462            | Ant1    | 16.318                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 17.583                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 16.65                 | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 17.567                | $\geq 0.5$                  | Pass    |
| NVNT      | n40  | 2422            | Ant1    | 34.071                | $\geq 0.5$                  | Pass    |
| NVNT      | n40  | 2437            | Ant1    | 31.538                | $\geq 0.5$                  | Pass    |
| NVNT      | n40  | 2452            | Ant1    | 33.82                 | $\geq 0.5$                  | Pass    |



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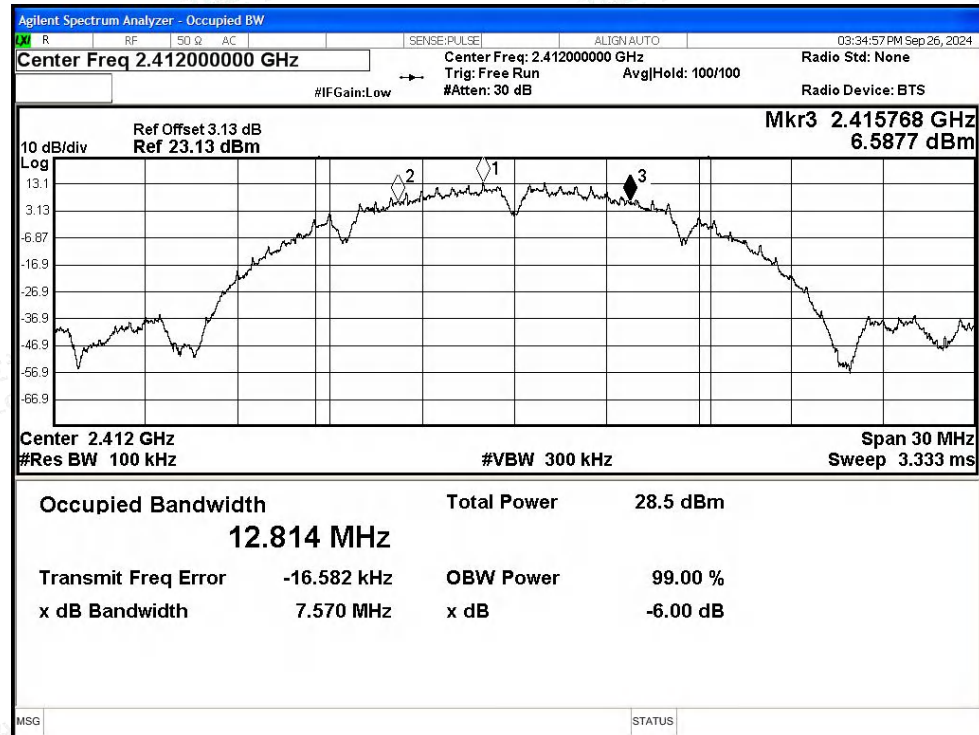
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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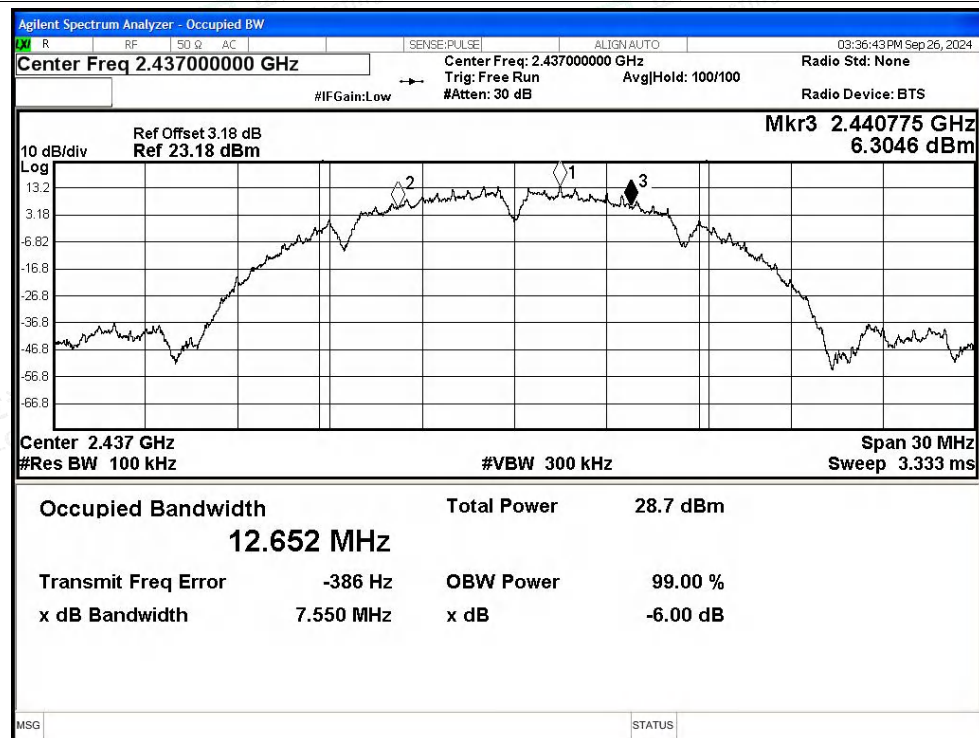


## Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



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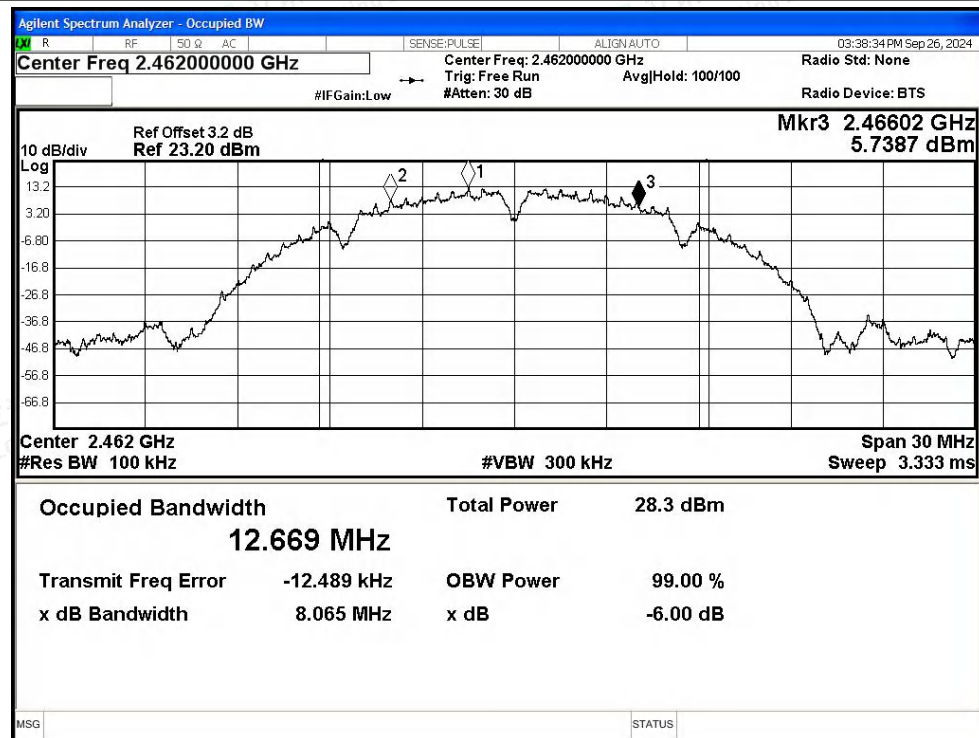
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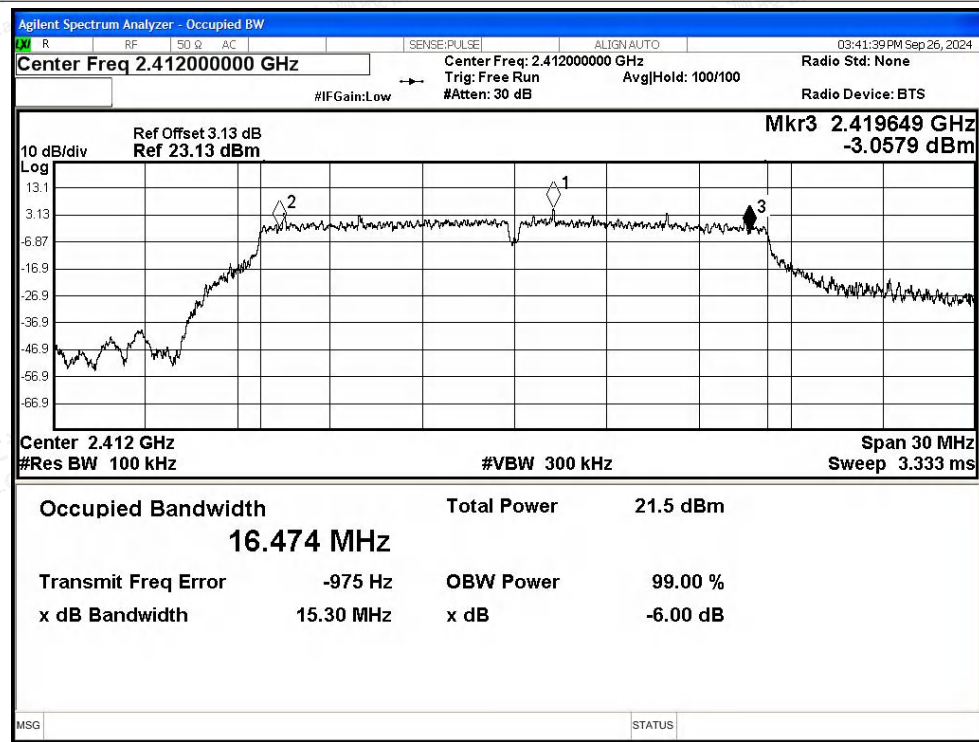
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## -6dB Bandwidth NVNT b 2462MHz Ant1



## -6dB Bandwidth NVNT g 2412MHz Ant1



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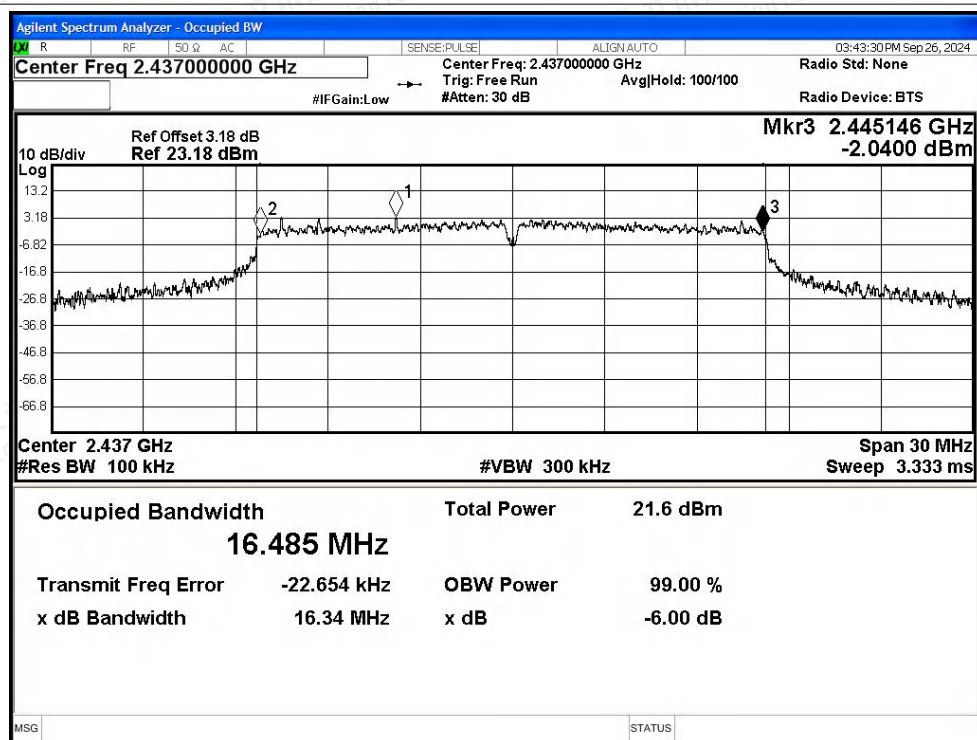
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

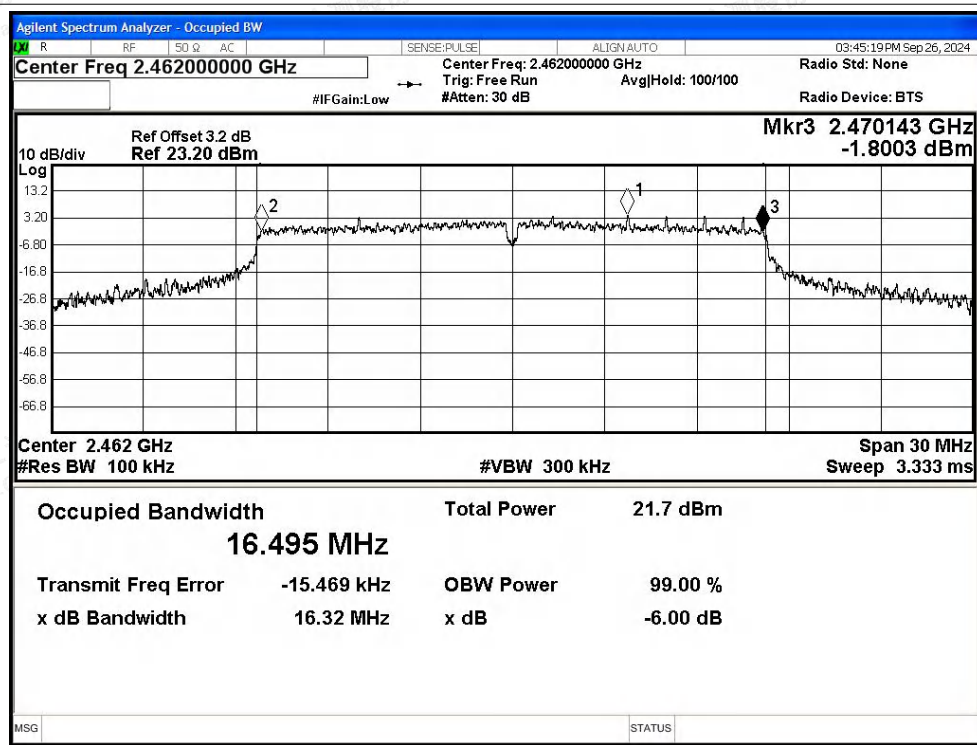
Scan code to check authenticity



-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1



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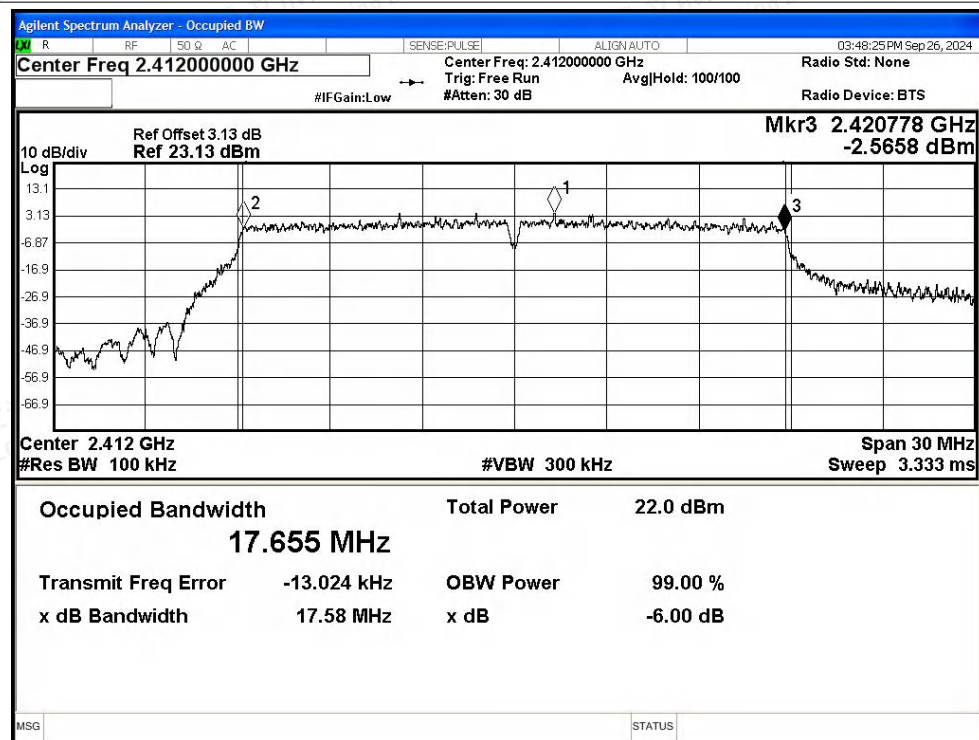
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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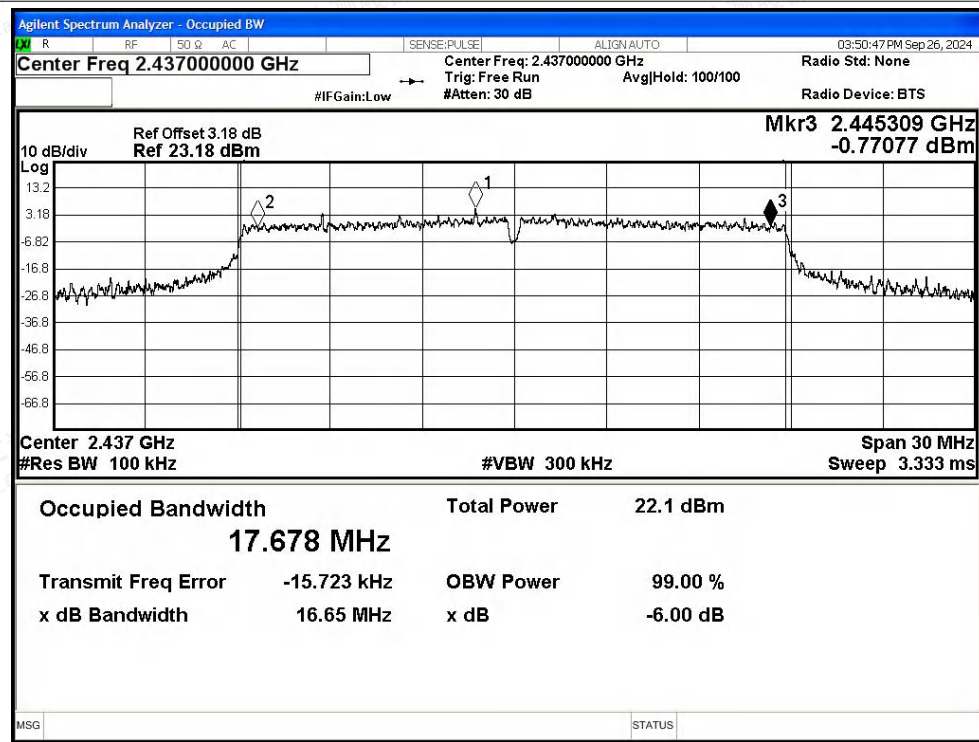




-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

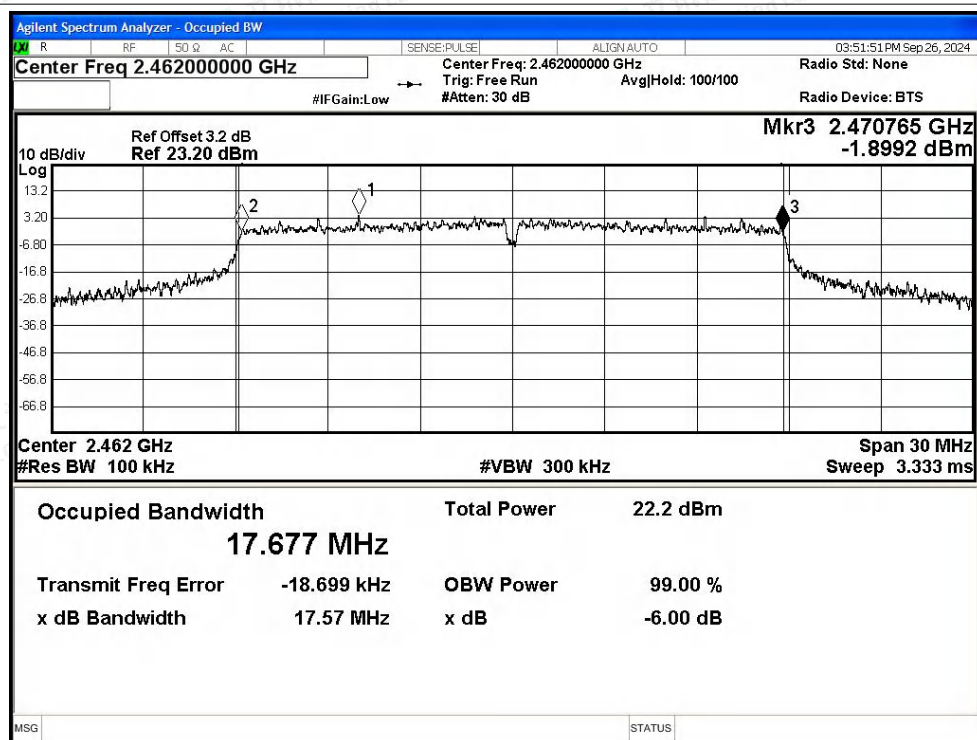
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

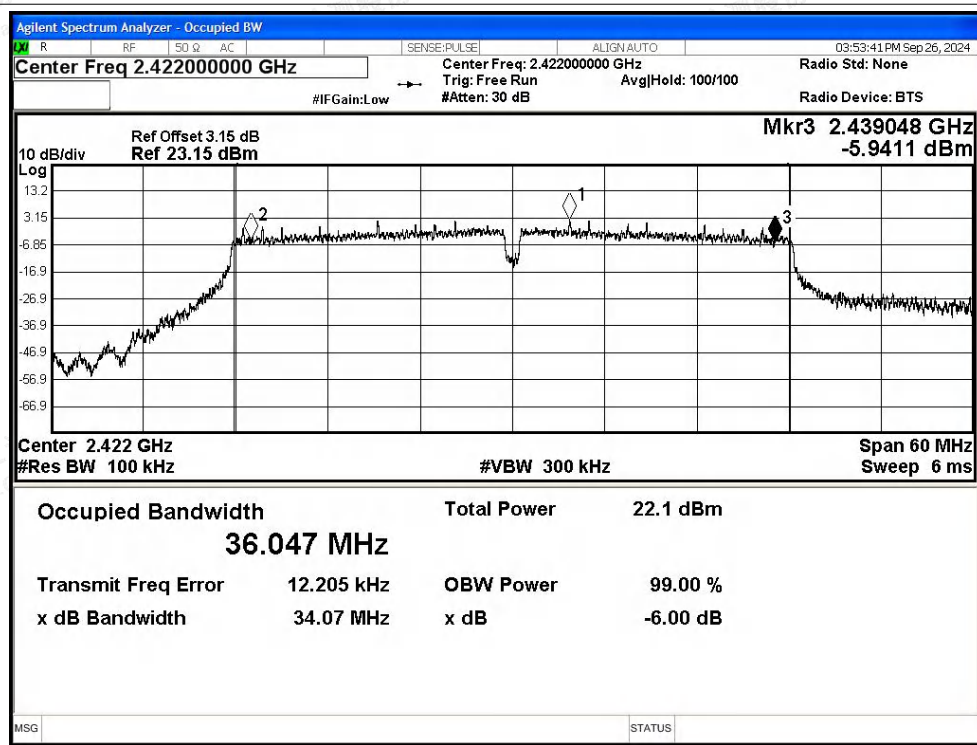
Scan code to check authenticity



-6dB Bandwidth NVNT n20 2462MHz Ant1



-6dB Bandwidth NVNT n40 2422MHz Ant1



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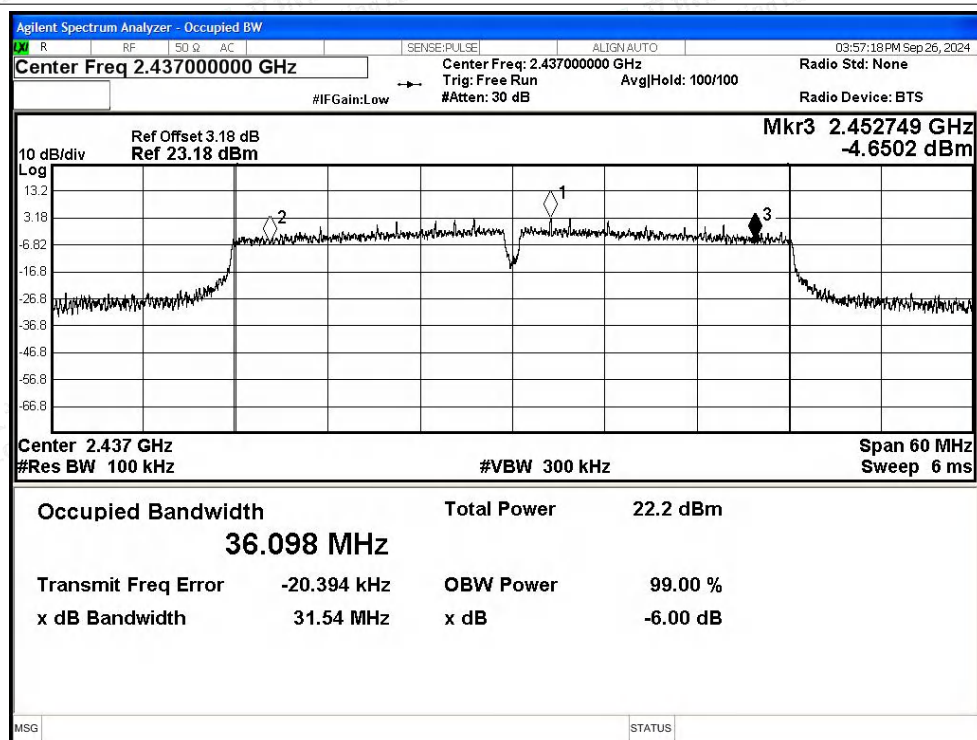
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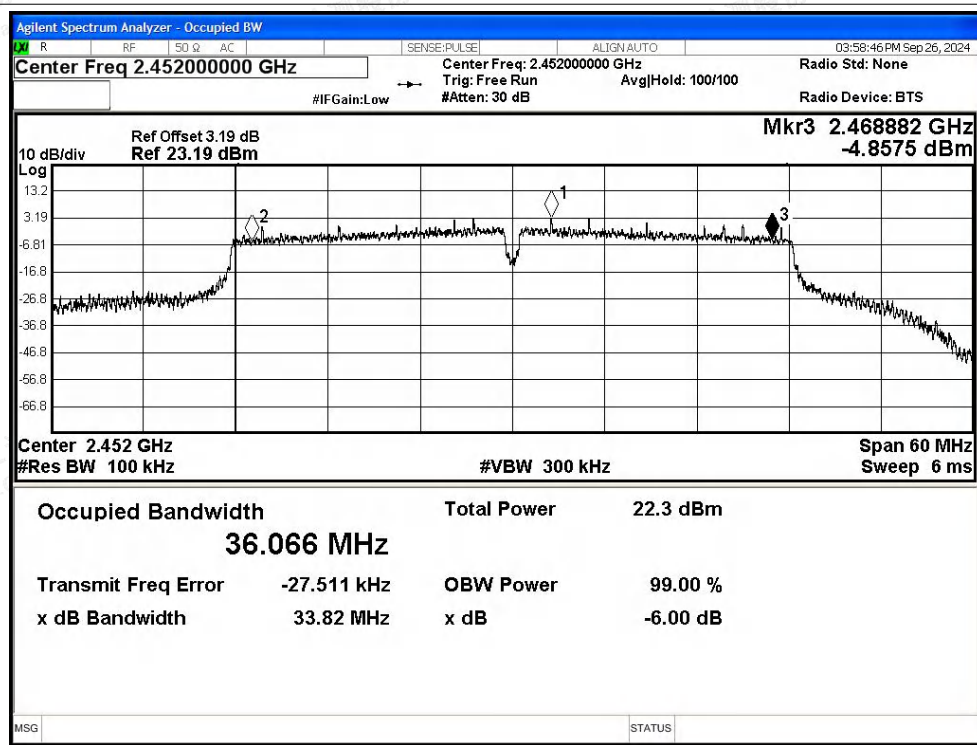
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## -6dB Bandwidth NVNT n40 2437MHz Ant1



## -6dB Bandwidth NVNT n40 2452MHz 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    | 23.51             | 30          | Pass    |
| NVNT      | b    | 2437            | Ant1    | 23.72             | 30          | Pass    |
| NVNT      | b    | 2462            | Ant1    | 23.34             | 30          | Pass    |
| NVNT      | g    | 2412            | Ant1    | 20.16             | 30          | Pass    |
| NVNT      | g    | 2437            | Ant1    | 20.31             | 30          | Pass    |
| NVNT      | g    | 2462            | Ant1    | 20.34             | 30          | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 20.62             | 30          | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 20.80             | 30          | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 20.82             | 30          | Pass    |
| NVNT      | n40  | 2422            | Ant1    | 20.60             | 30          | Pass    |
| NVNT      | n40  | 2437            | Ant1    | 20.71             | 30          | Pass    |
| NVNT      | n40  | 2452            | Ant1    | 20.79             | 30          | Pass    |



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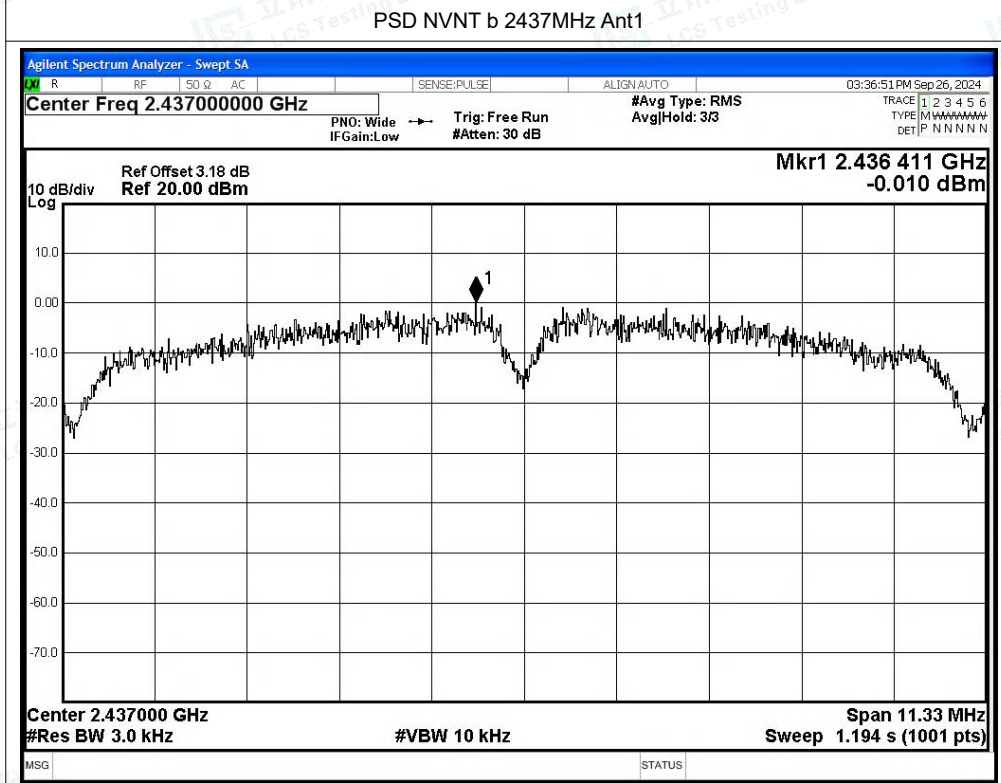
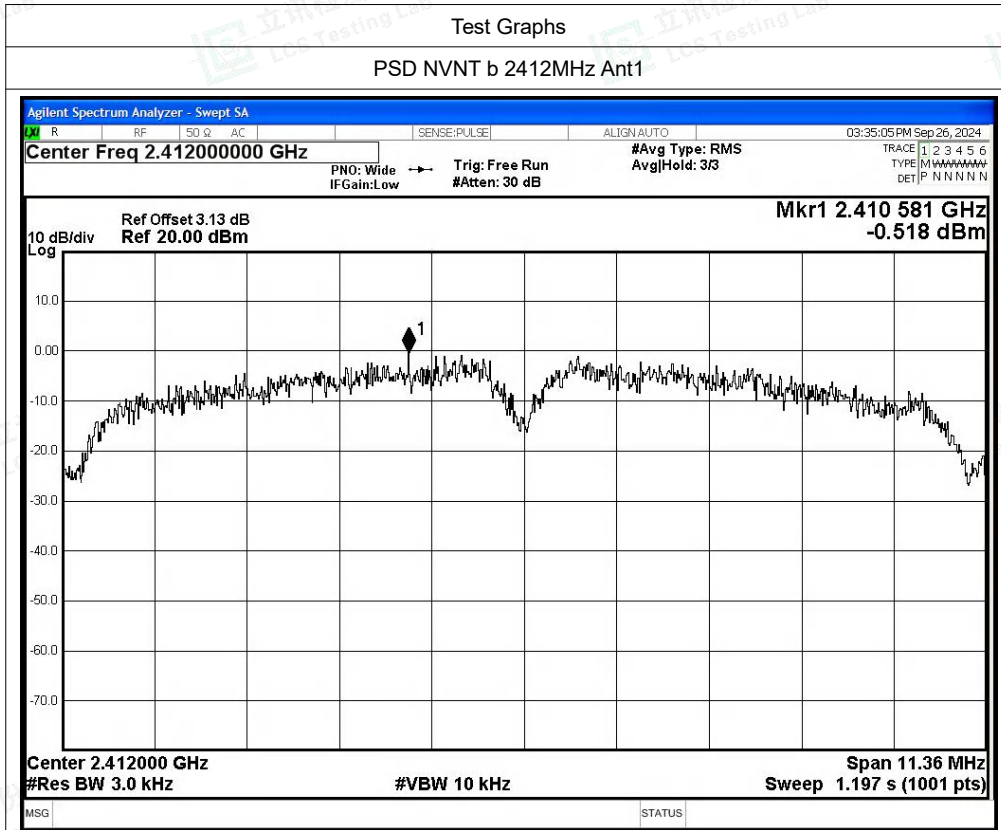
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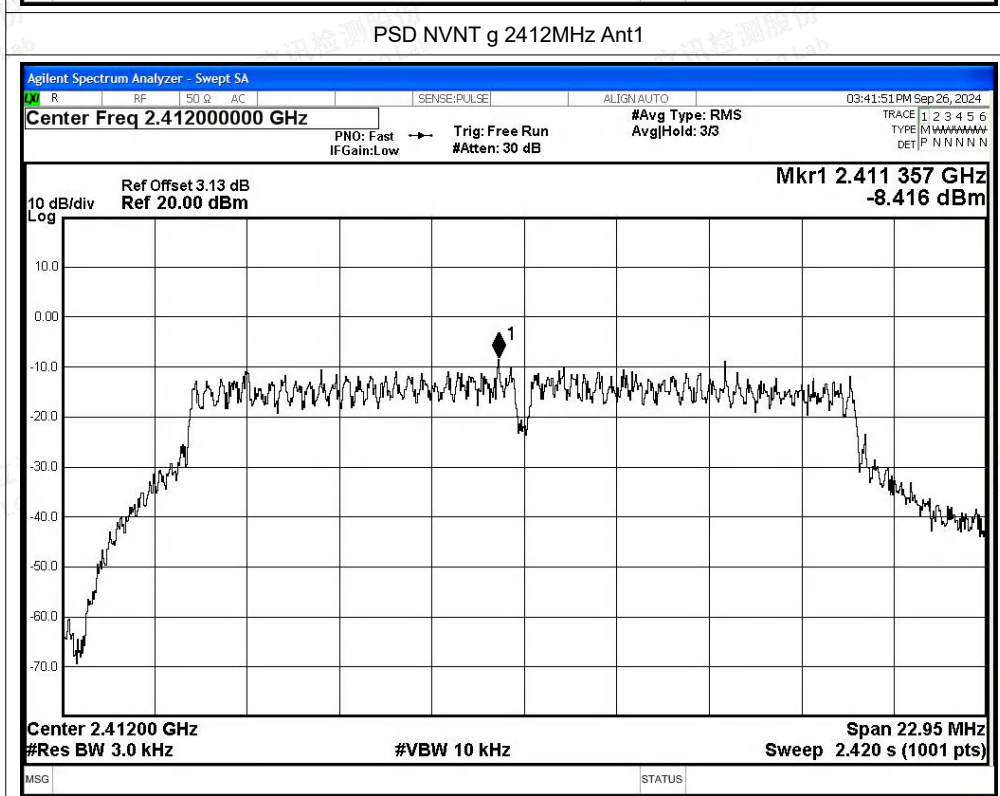
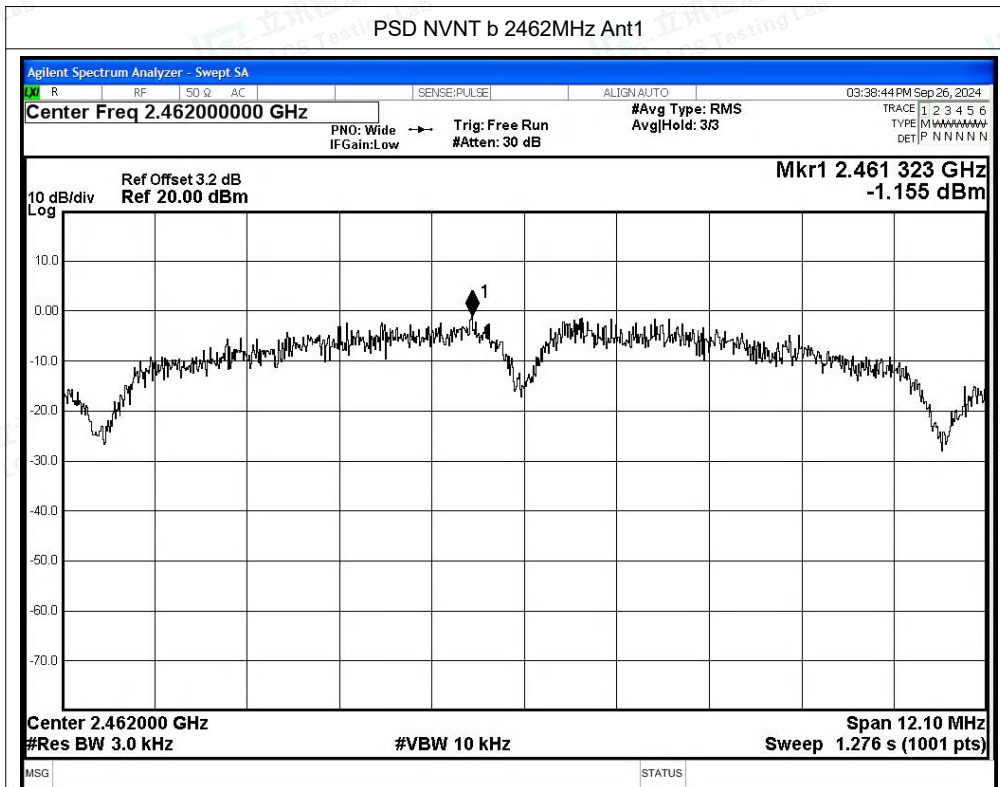
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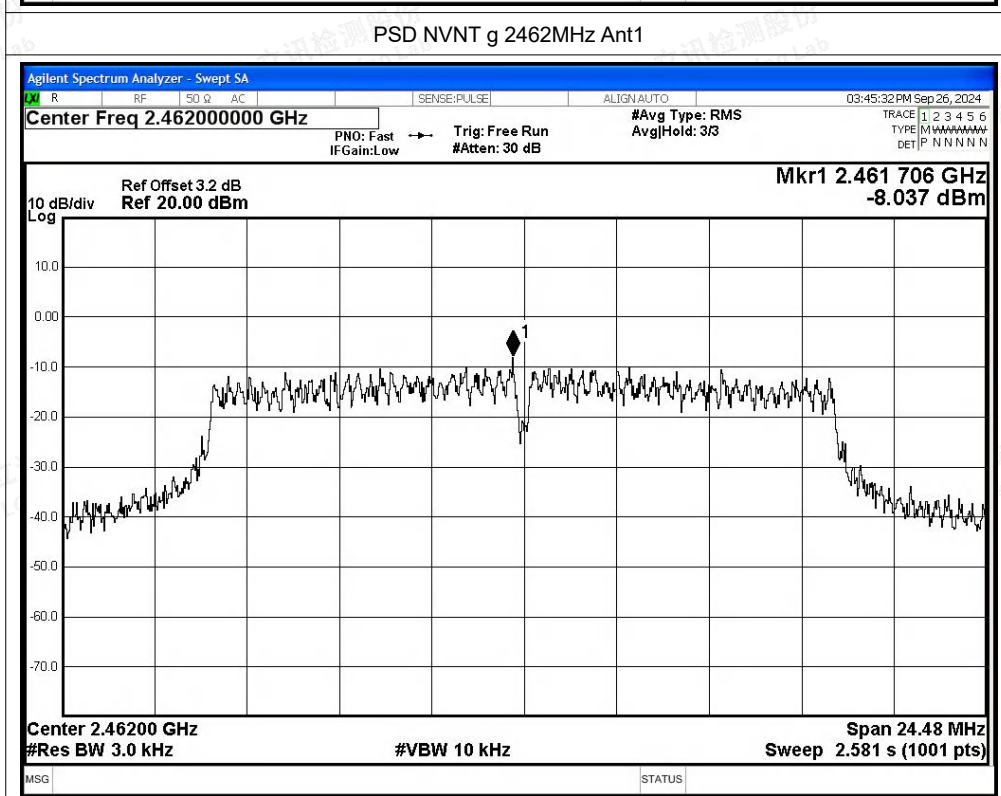
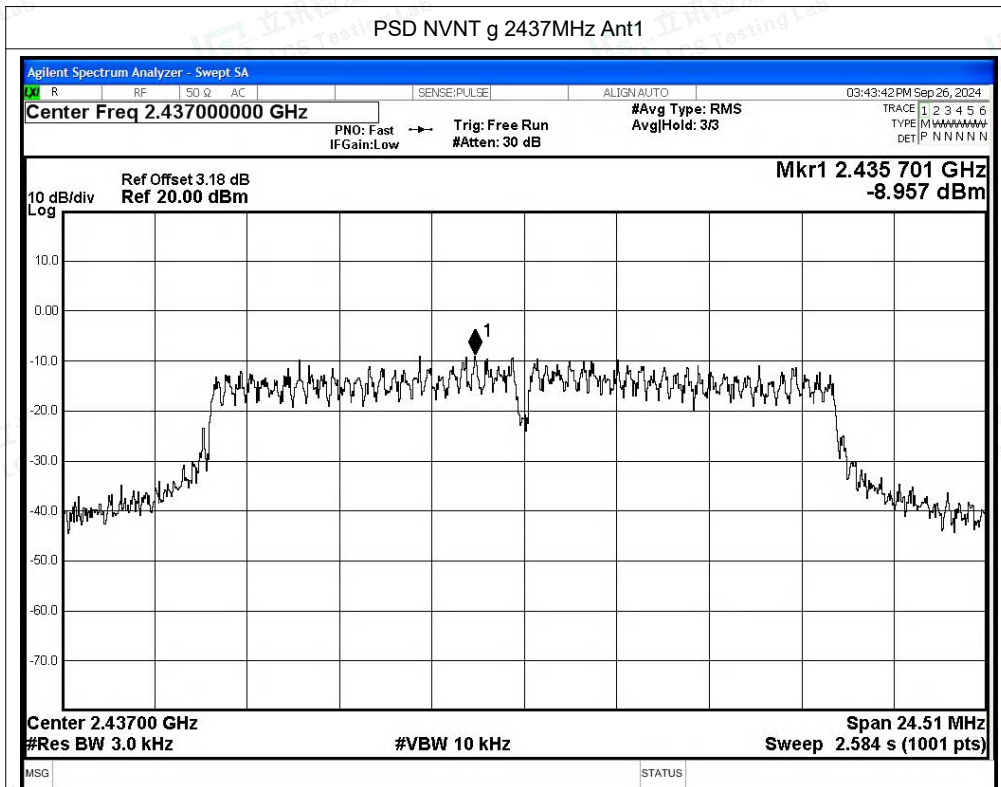
## B.3 Maximum Power Spectral Density Level

| Condition | Mode | Frequency (MHz) | Antenna | Total PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|------|-----------------|---------|----------------------|------------------|---------|
| NVNT      | b    | 2412            | Ant1    | -0.52                | 8                | Pass    |
| NVNT      | b    | 2437            | Ant1    | -0.01                | 8                | Pass    |
| NVNT      | b    | 2462            | Ant1    | -1.16                | 8                | Pass    |
| NVNT      | g    | 2412            | Ant1    | -8.42                | 8                | Pass    |
| NVNT      | g    | 2437            | Ant1    | -8.96                | 8                | Pass    |
| NVNT      | g    | 2462            | Ant1    | -8.04                | 8                | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -8.7                 | 8                | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -9.88                | 8                | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -8.97                | 8                | Pass    |
| NVNT      | n40  | 2422            | Ant1    | -11.9                | 8                | Pass    |
| NVNT      | n40  | 2437            | Ant1    | -11.72               | 8                | Pass    |
| NVNT      | n40  | 2452            | Ant1    | -9.94                | 8                | Pass    |

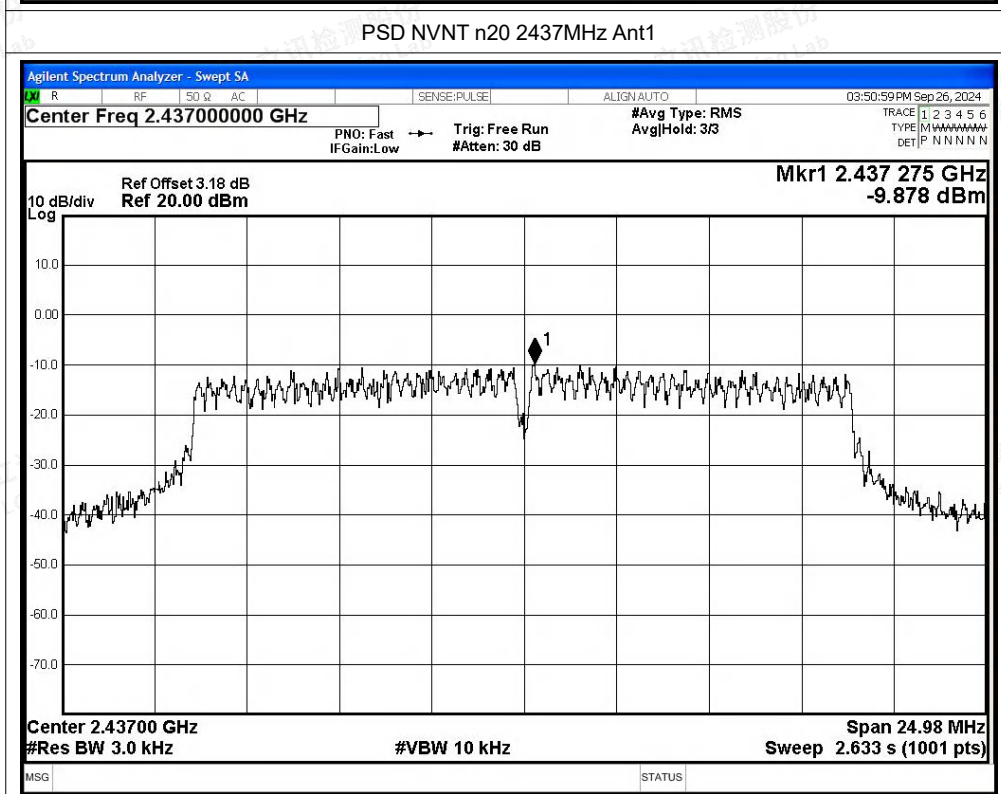
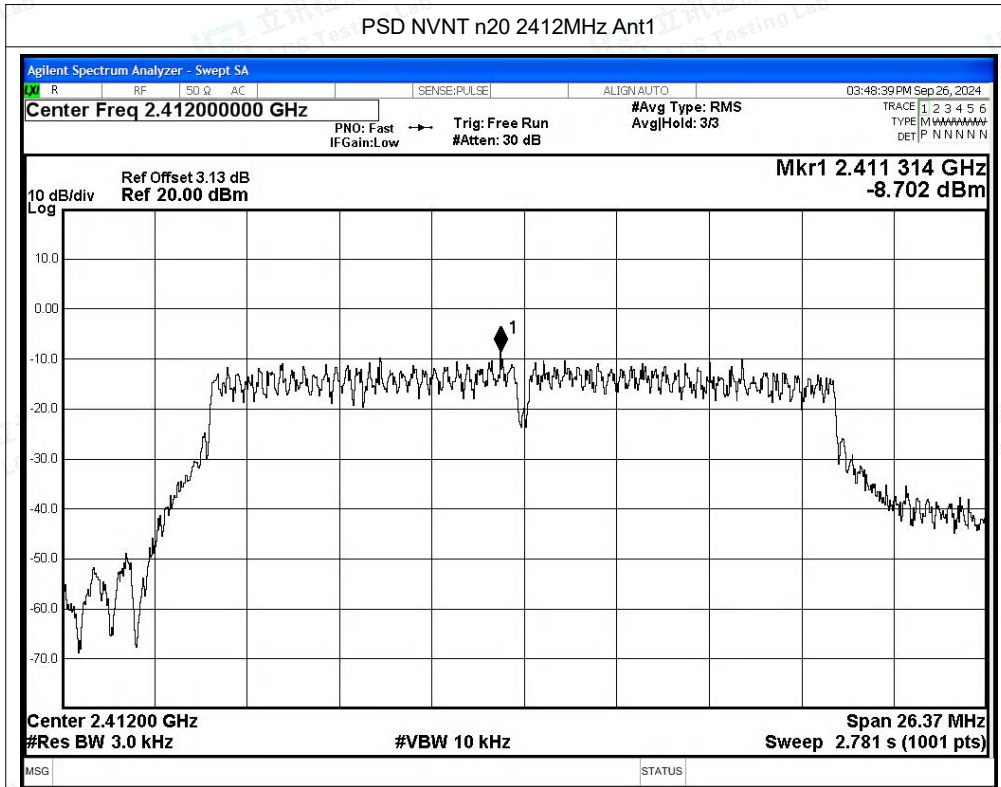


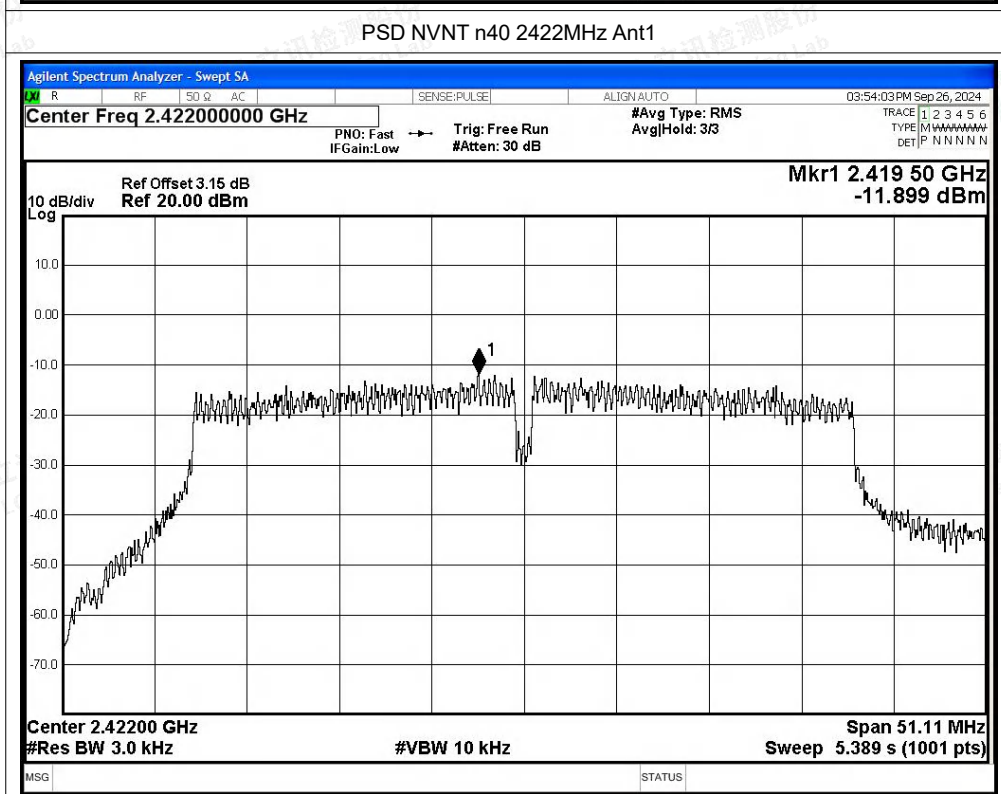
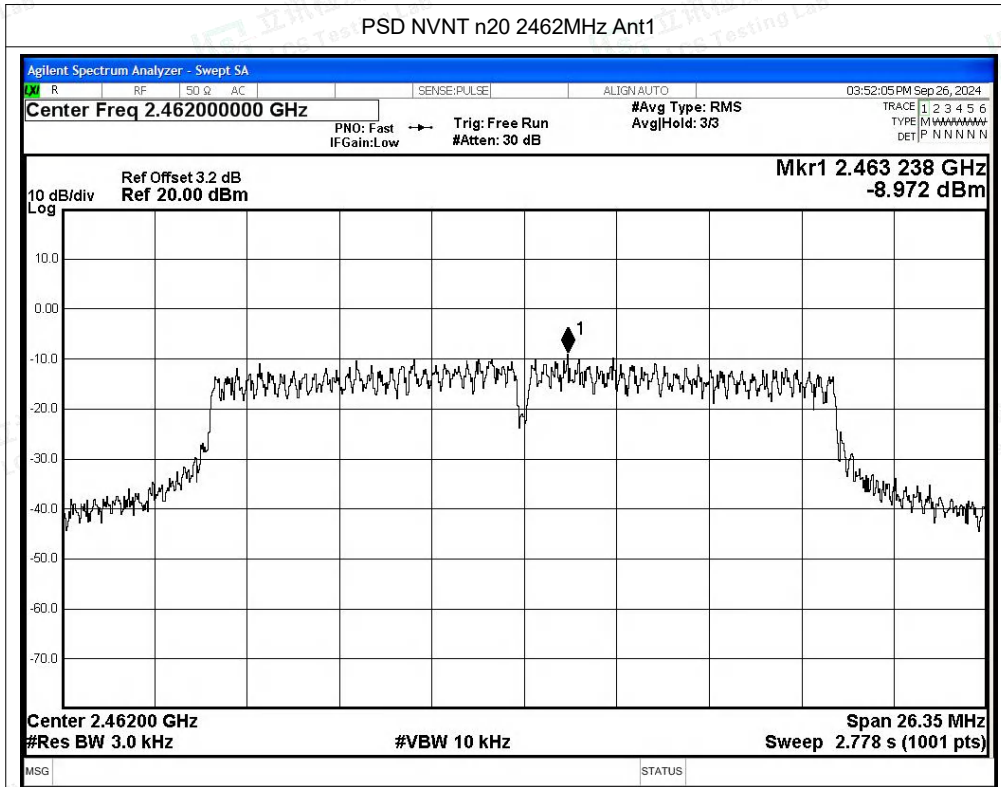


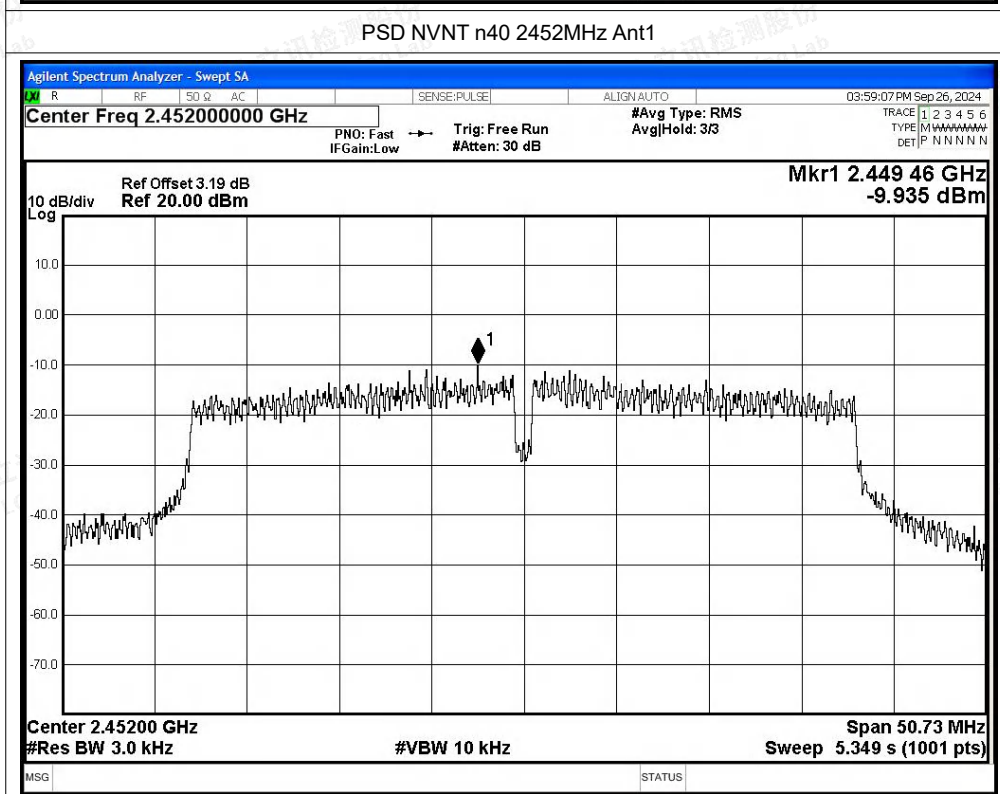
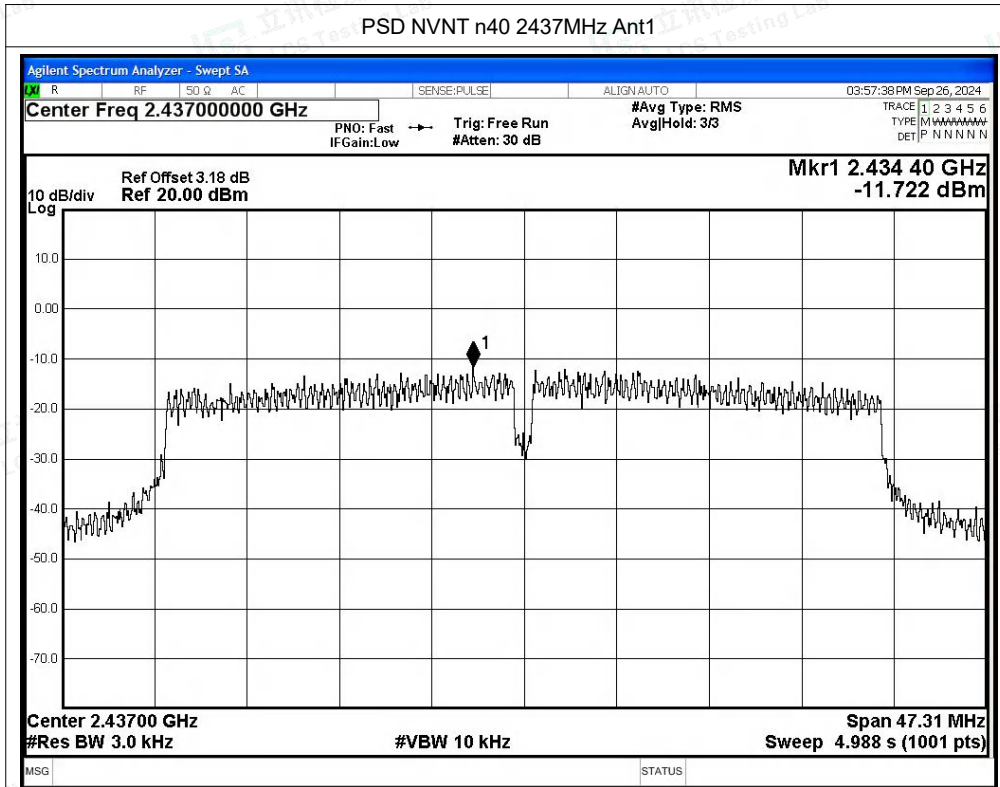












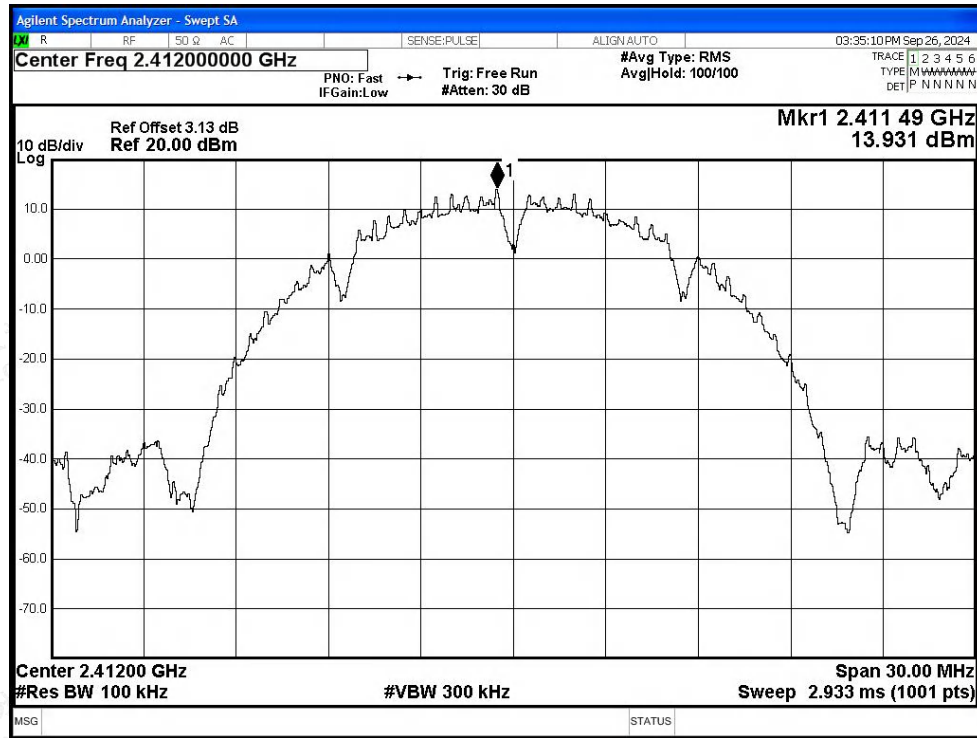
## B.4 Band Edge

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -49.89          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -62.17          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -43.28          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -56.34          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -44.55          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -56.17          | -20         | Pass    |
| NVNT      | n40  | 2422            | Ant1    | -35.88          | -20         | Pass    |
| NVNT      | n40  | 2452            | Ant1    | -50.53          | -20         | Pass    |

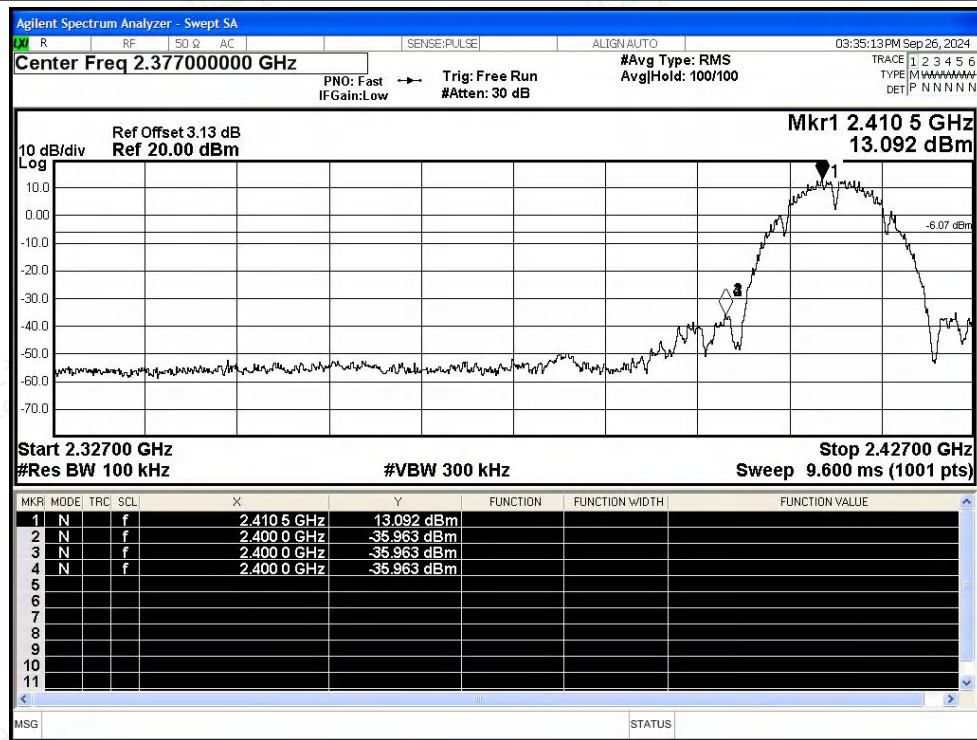


### Test Graphs

#### Band Edge NVNT b 2412MHz Ant1 Ref



#### Band Edge NVNT b 2412MHz Ant1 Emission



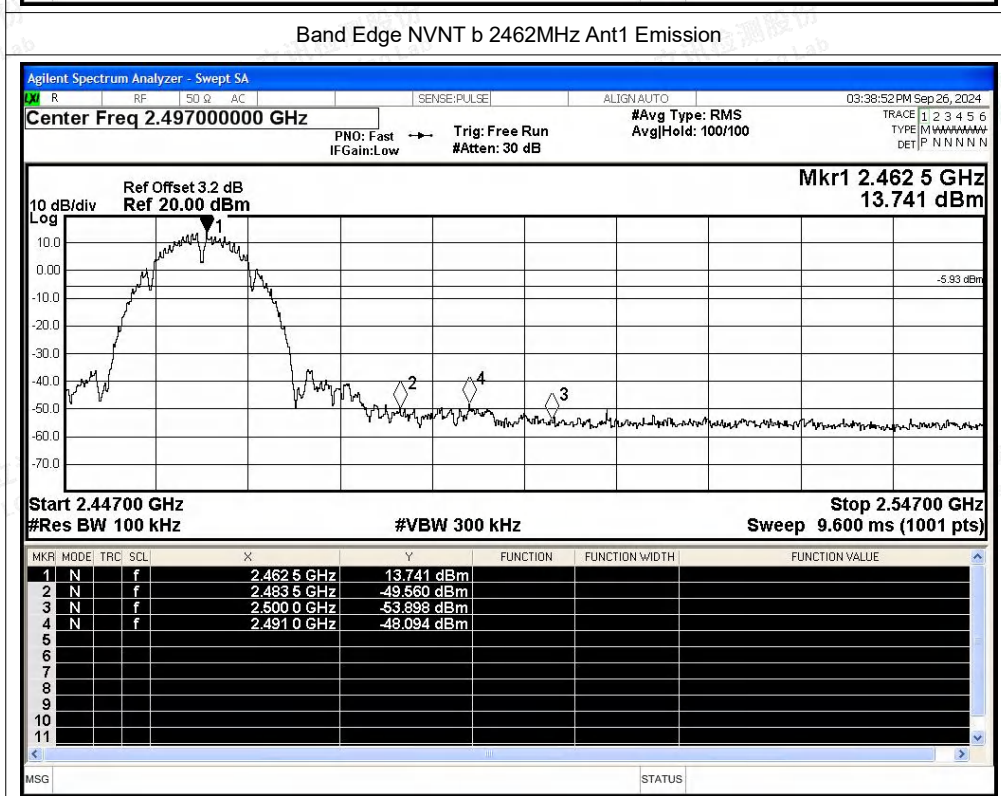
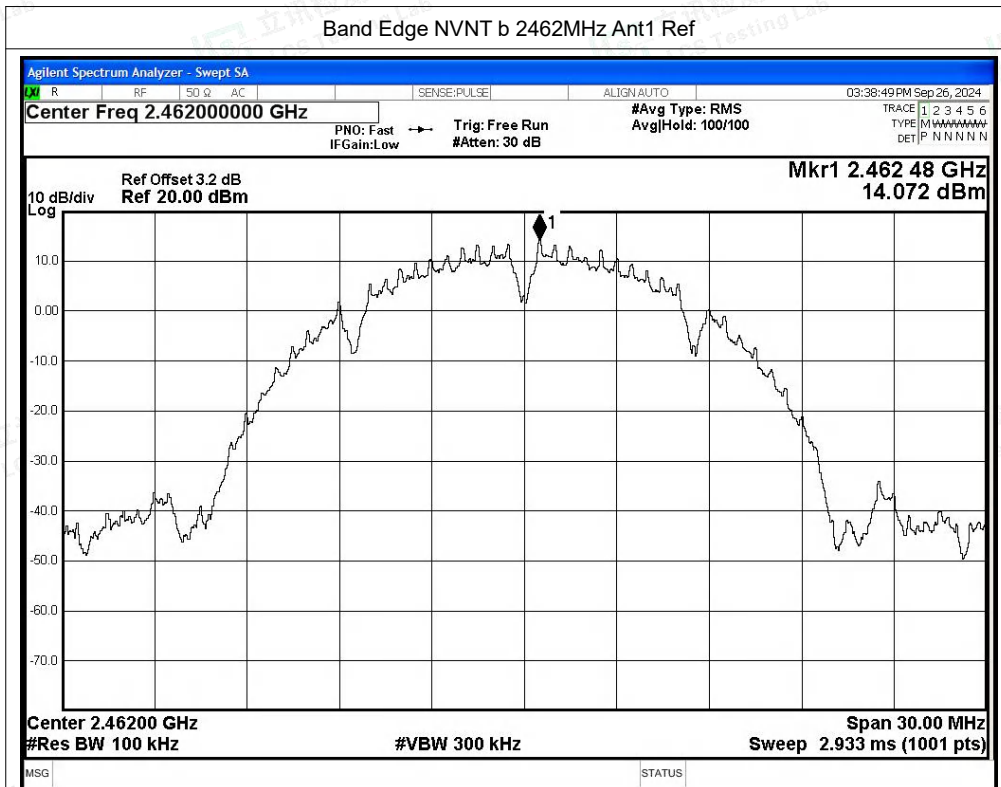
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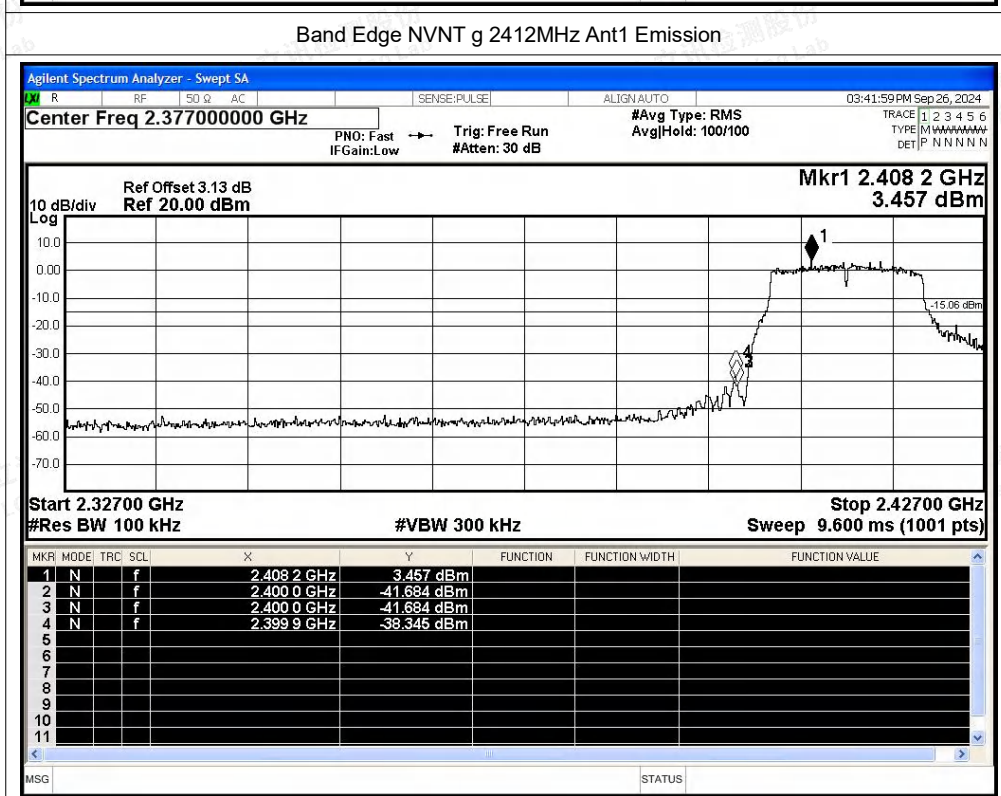
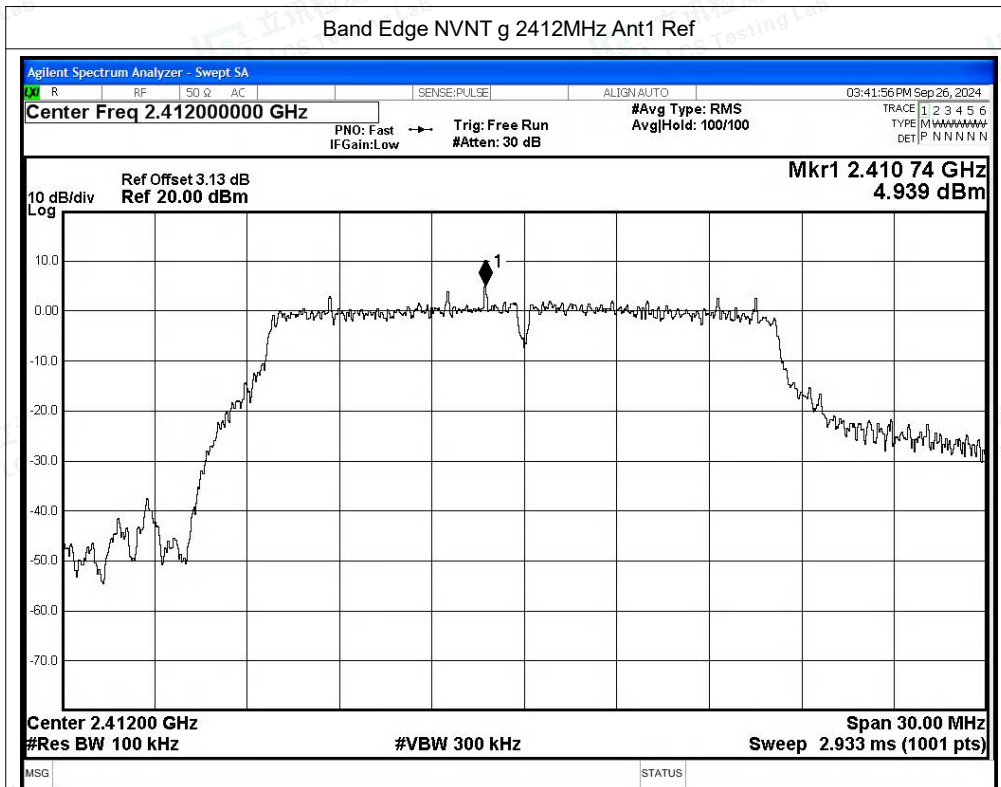
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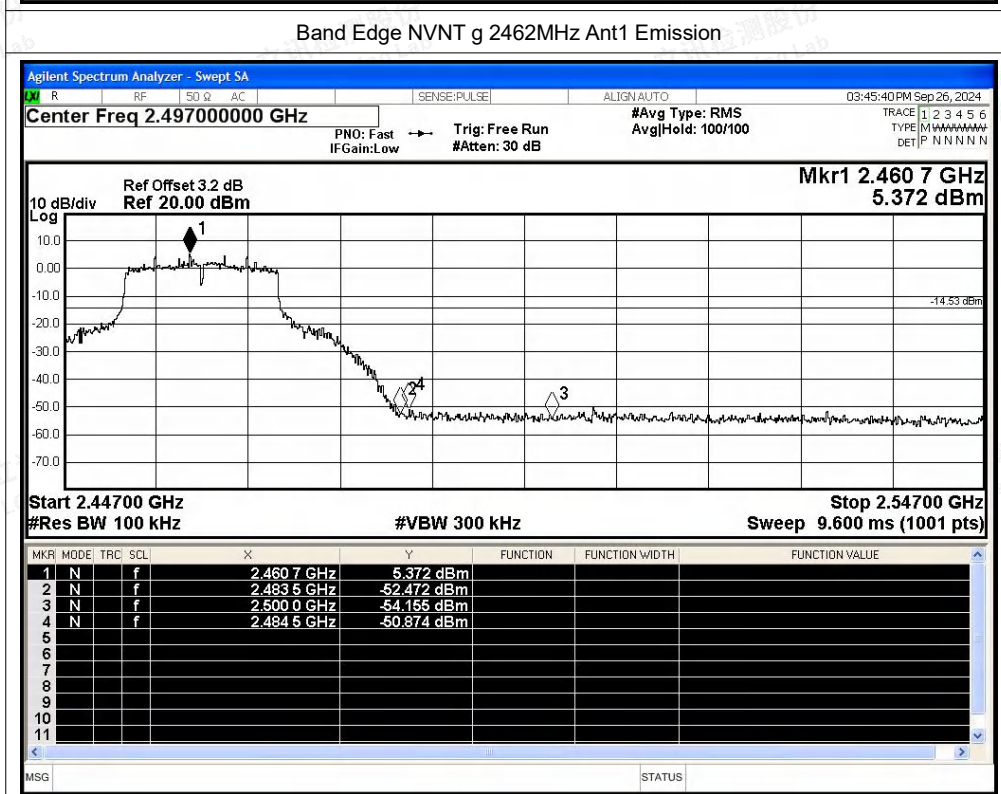
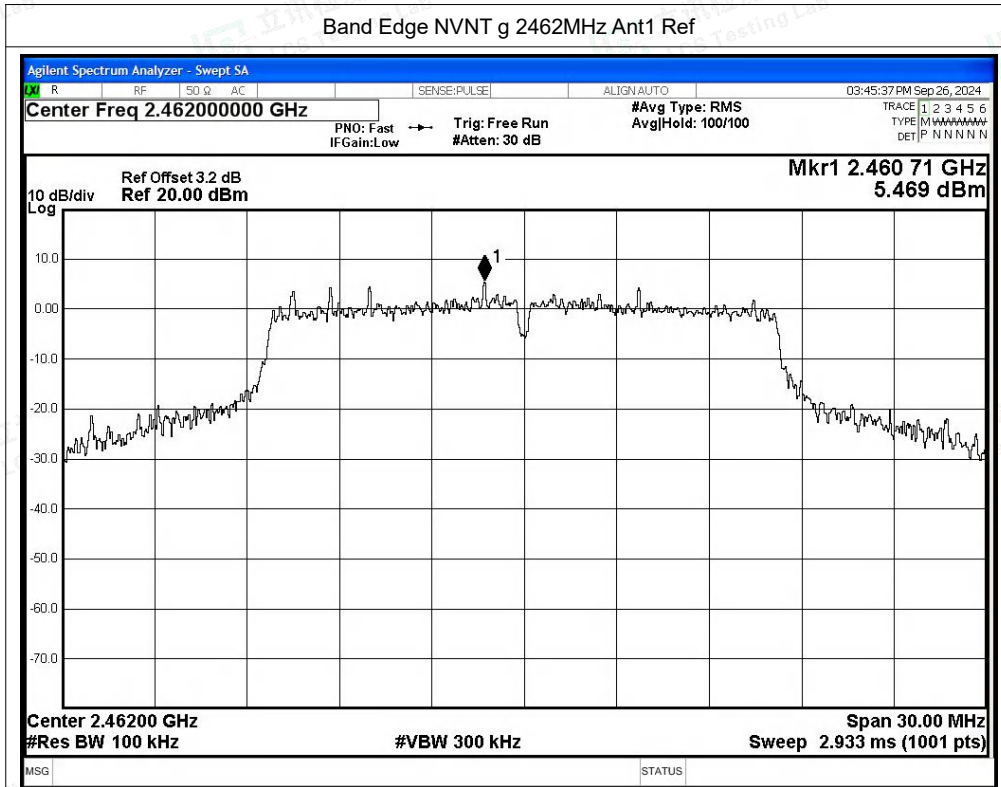
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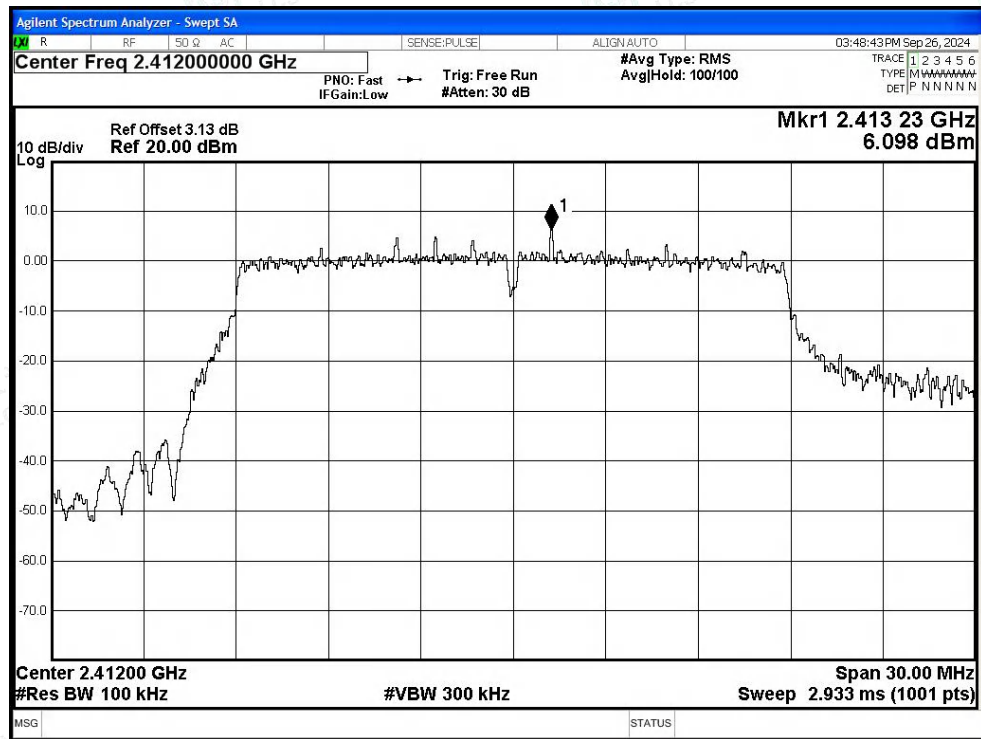




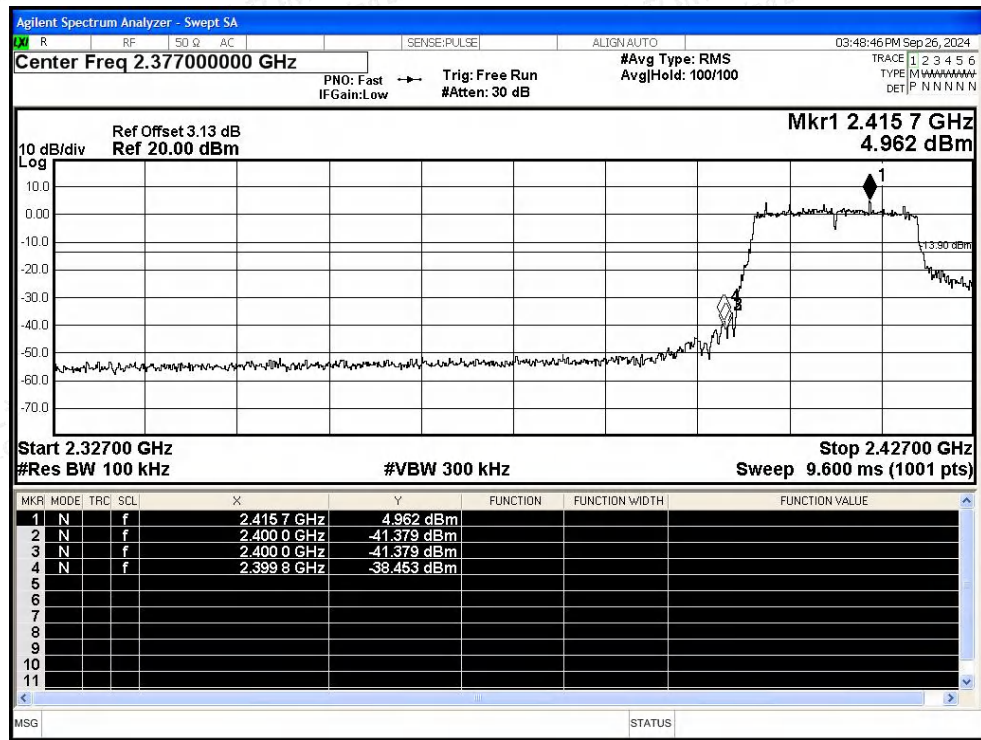




Band Edge NVNT n20 2412MHz Ant1 Ref

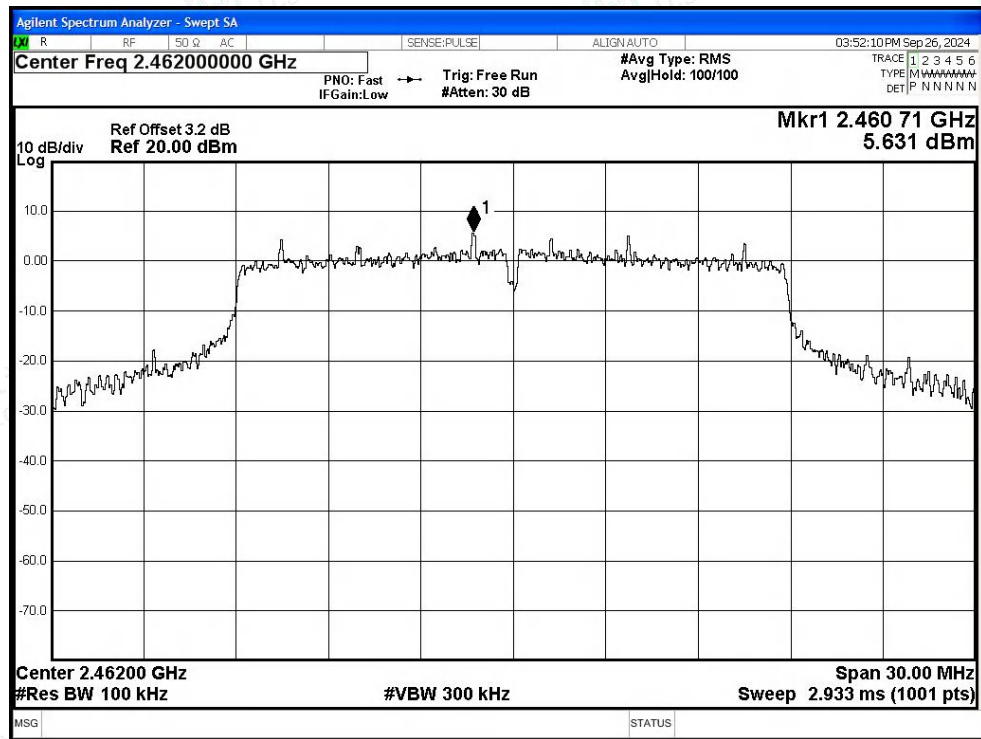


Band Edge NVNT n20 2412MHz Ant1 Emission

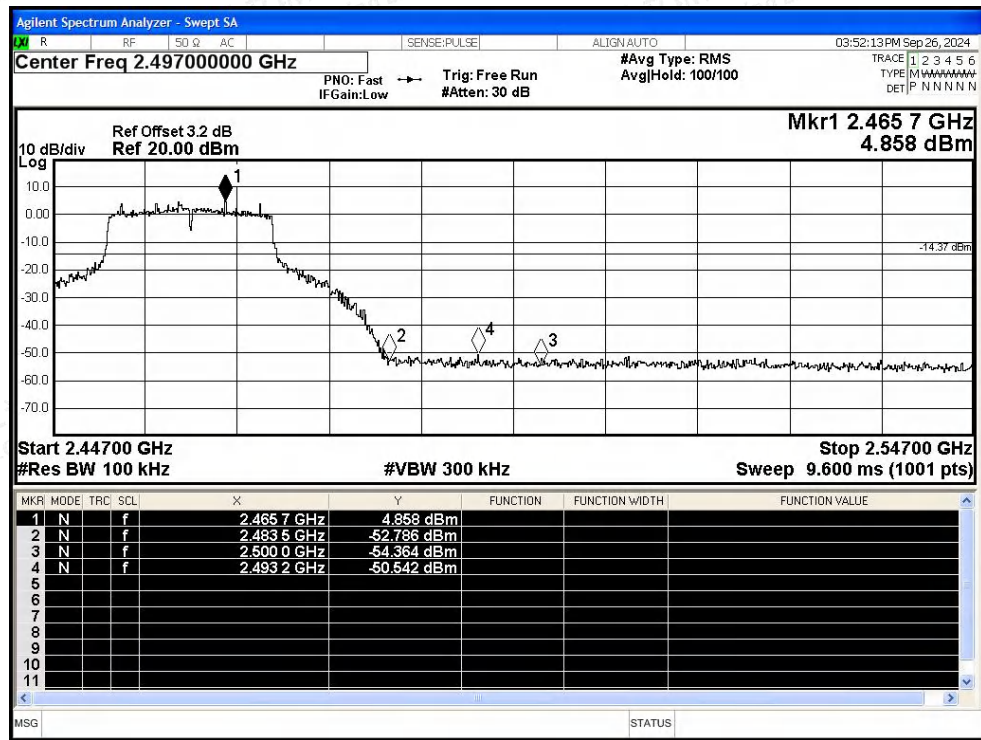




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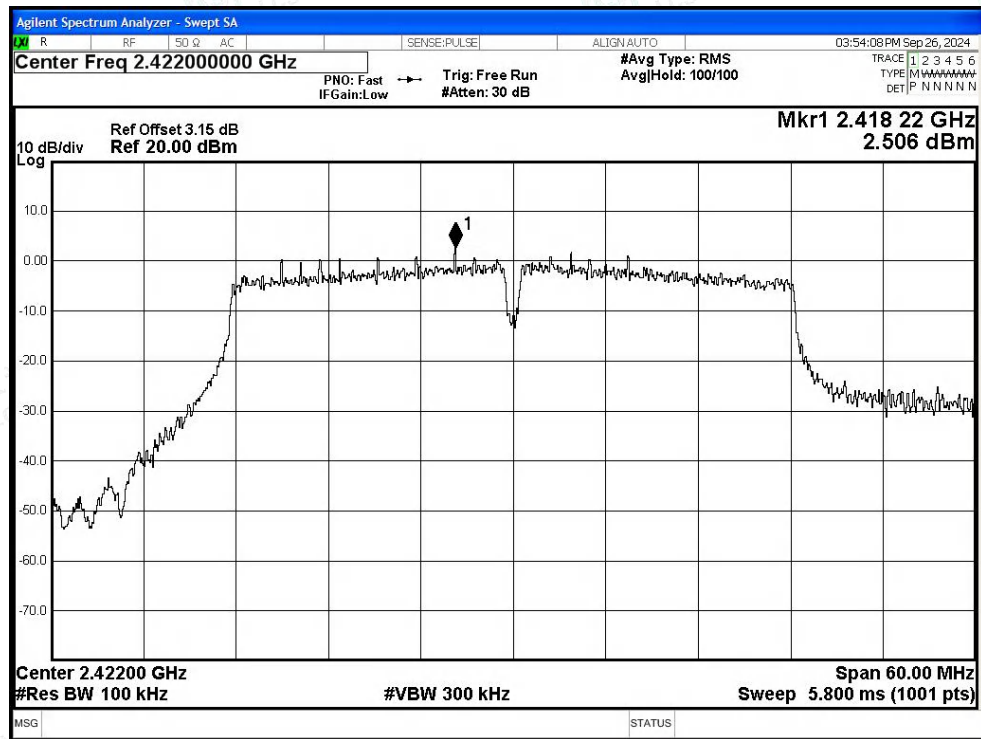


Band Edge NVNT n20 2462MHz Ant1 Emission

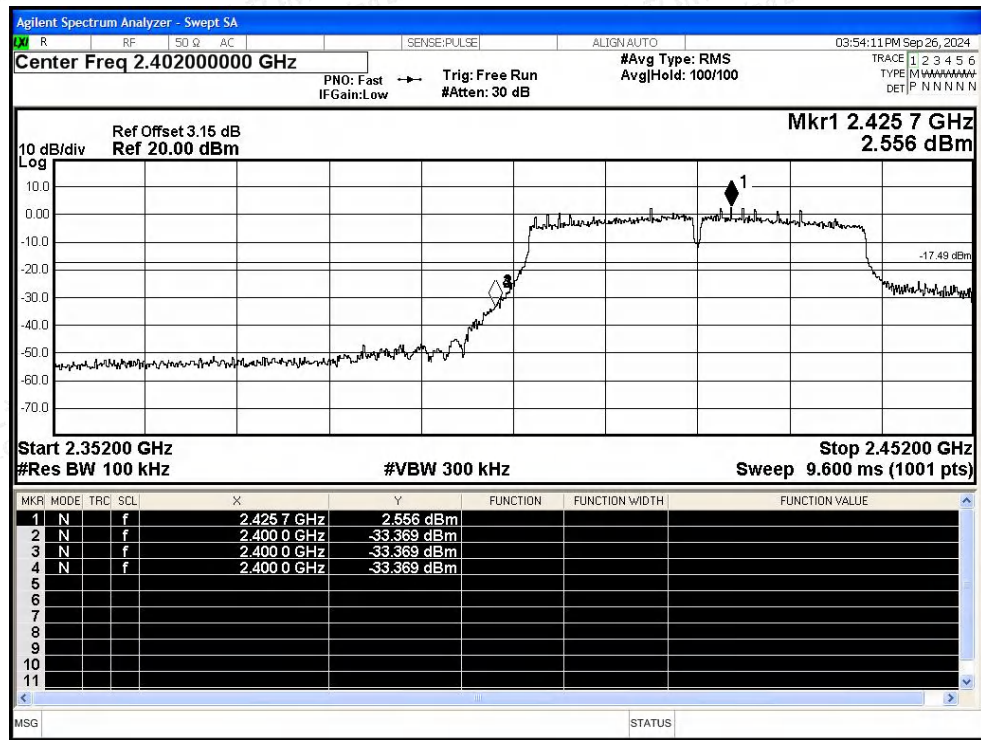




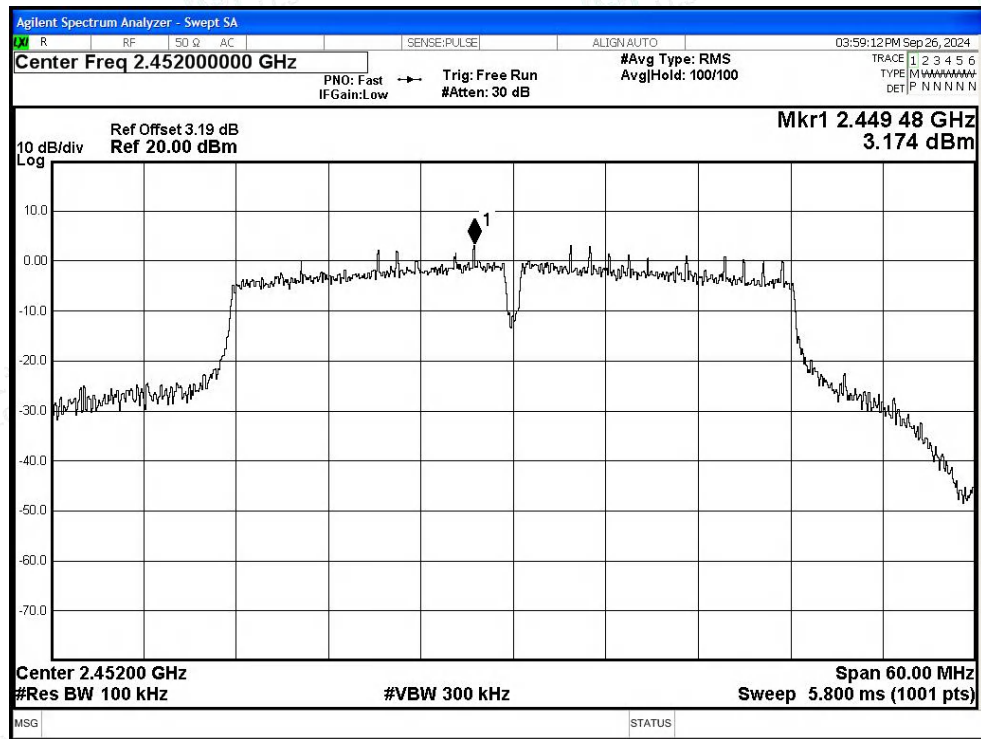
Band Edge NVNT n40 2422MHz Ant1 Ref



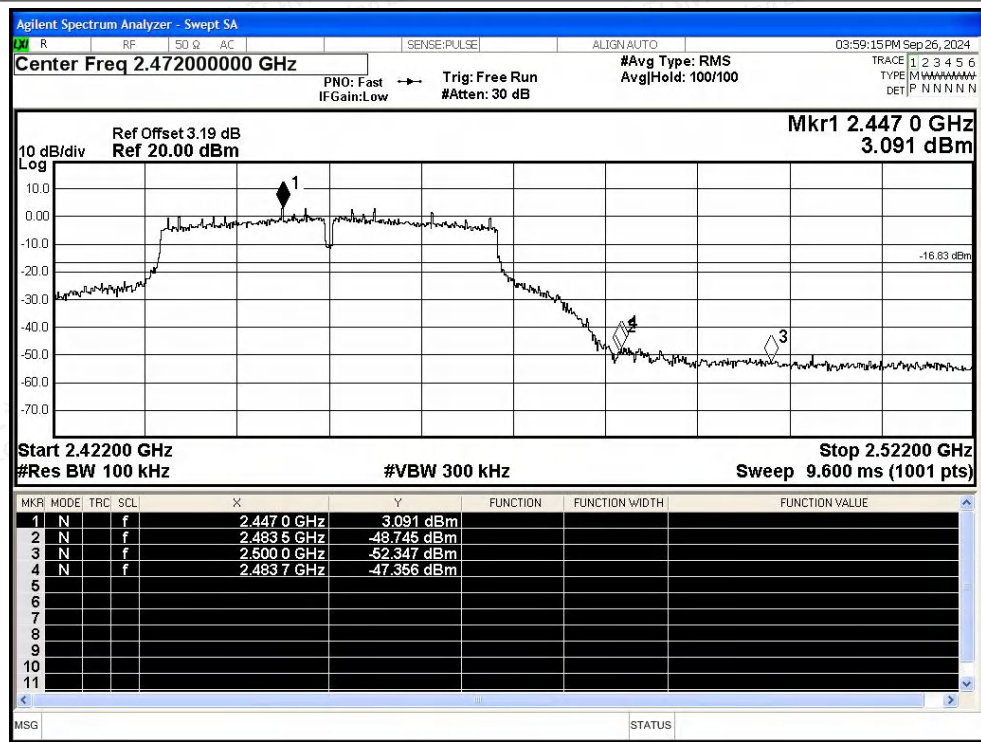
Band Edge NVNT n40 2422MHz Ant1 Emission



Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz Ant1 Emission



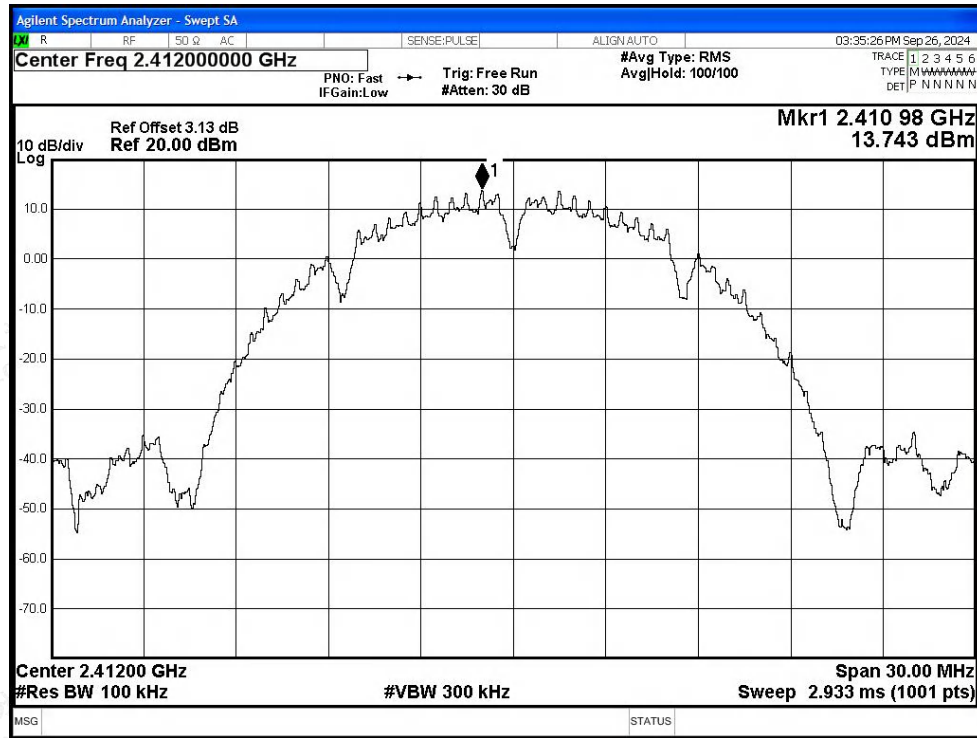
## B.5 Conducted RF Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -59.11          | -20         | Pass    |
| NVNT      | b    | 2437            | Ant1    | -58.46          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -58.18          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -50.67          | -20         | Pass    |
| NVNT      | g    | 2437            | Ant1    | -50.84          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -50.42          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -49.96          | -20         | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -50.75          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -50.74          | -20         | Pass    |
| NVNT      | n40  | 2422            | Ant1    | -47.95          | -20         | Pass    |
| NVNT      | n40  | 2437            | Ant1    | -48.29          | -20         | Pass    |
| NVNT      | n40  | 2452            | Ant1    | -48.08          | -20         | Pass    |

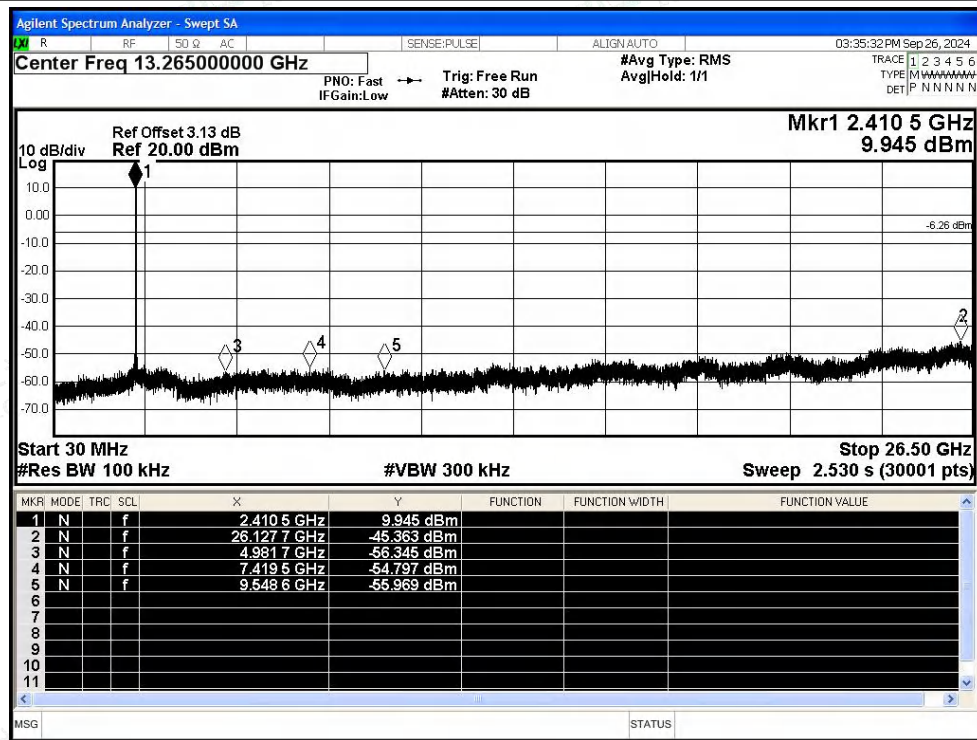


### Test Graphs

#### Tx. Spurious NVNT b 2412MHz Ant1 Ref

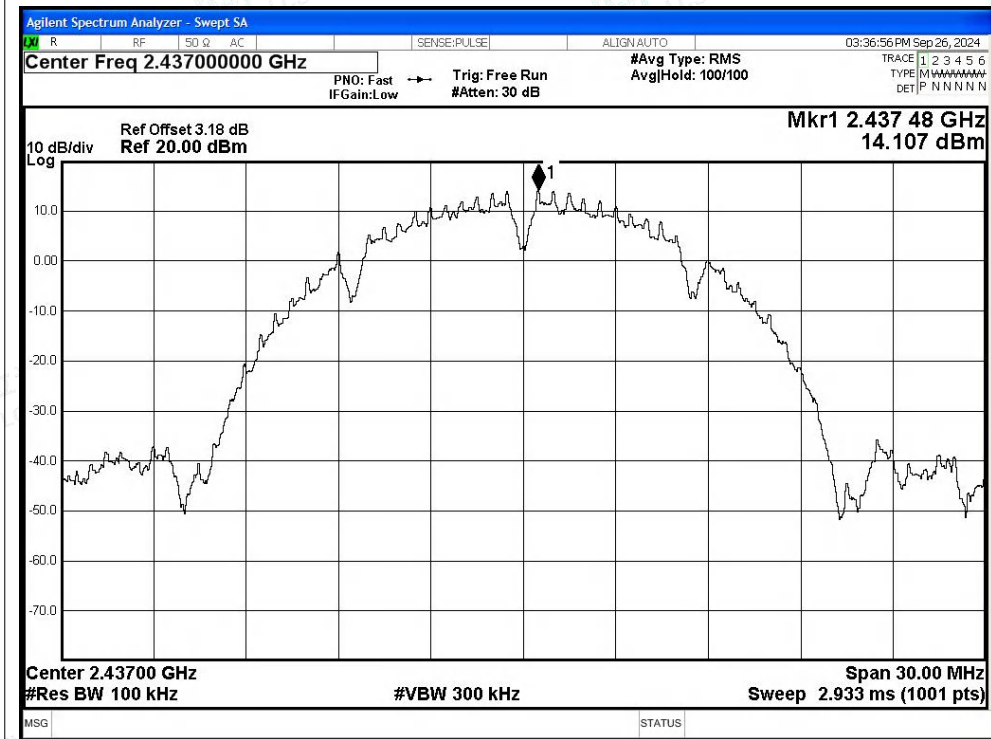


#### Tx. Spurious NVNT b 2412MHz Ant1 Emission

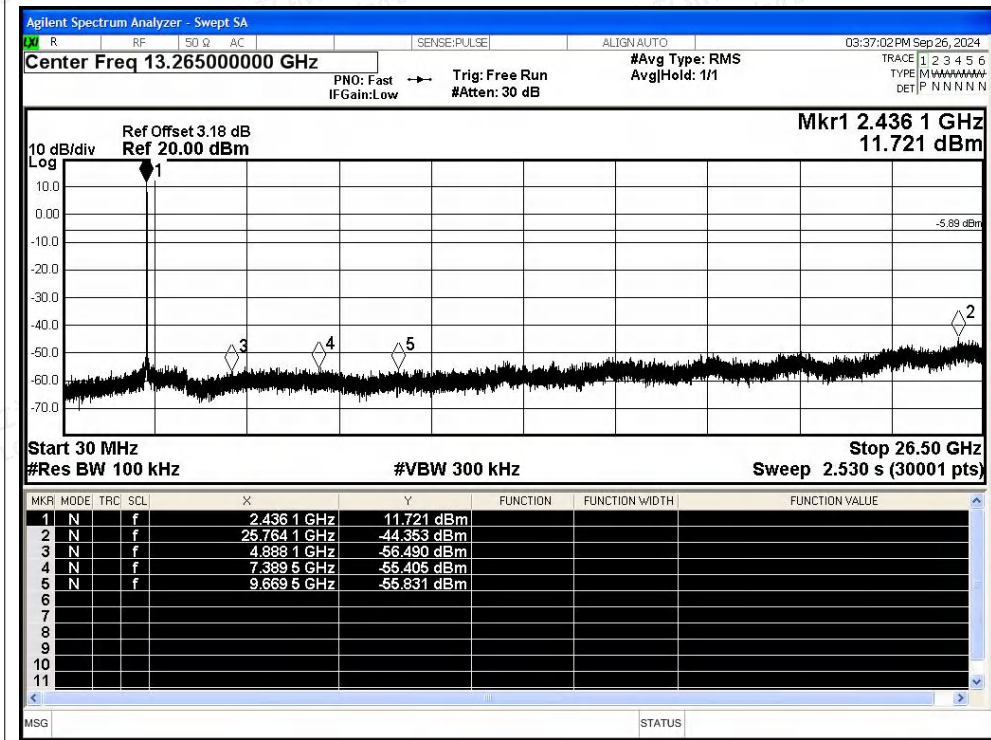




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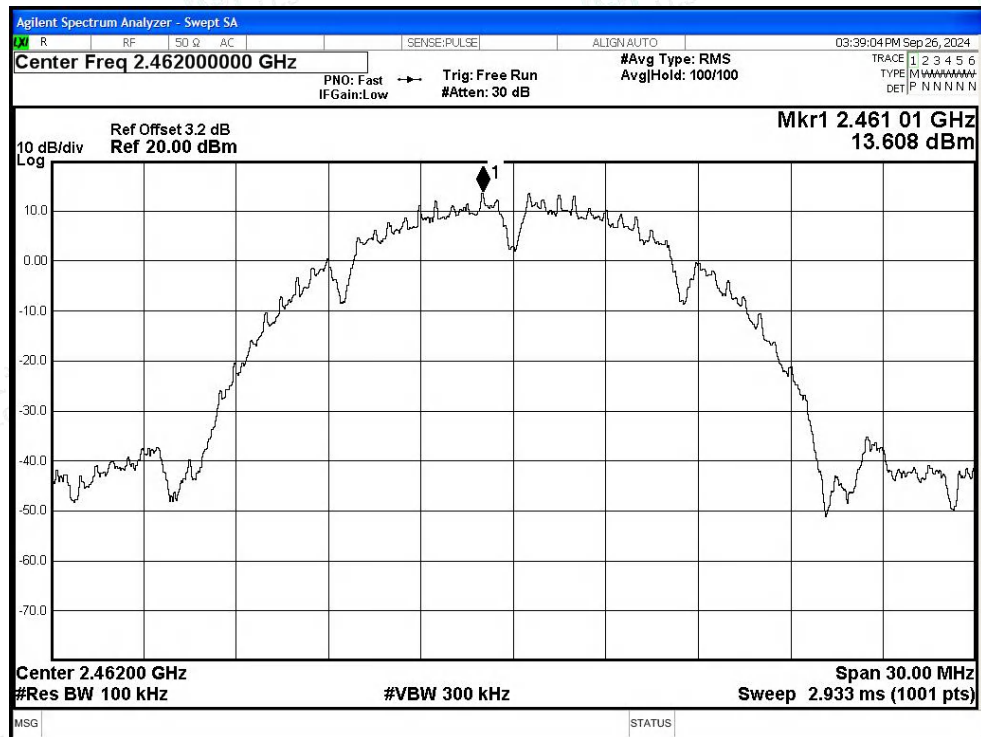


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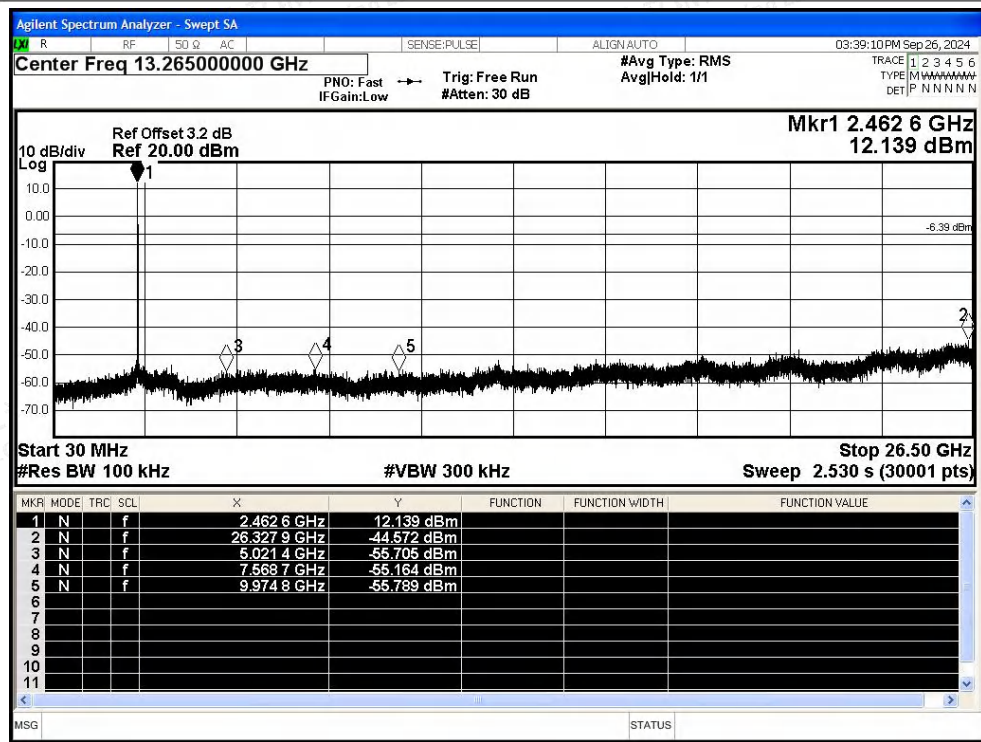




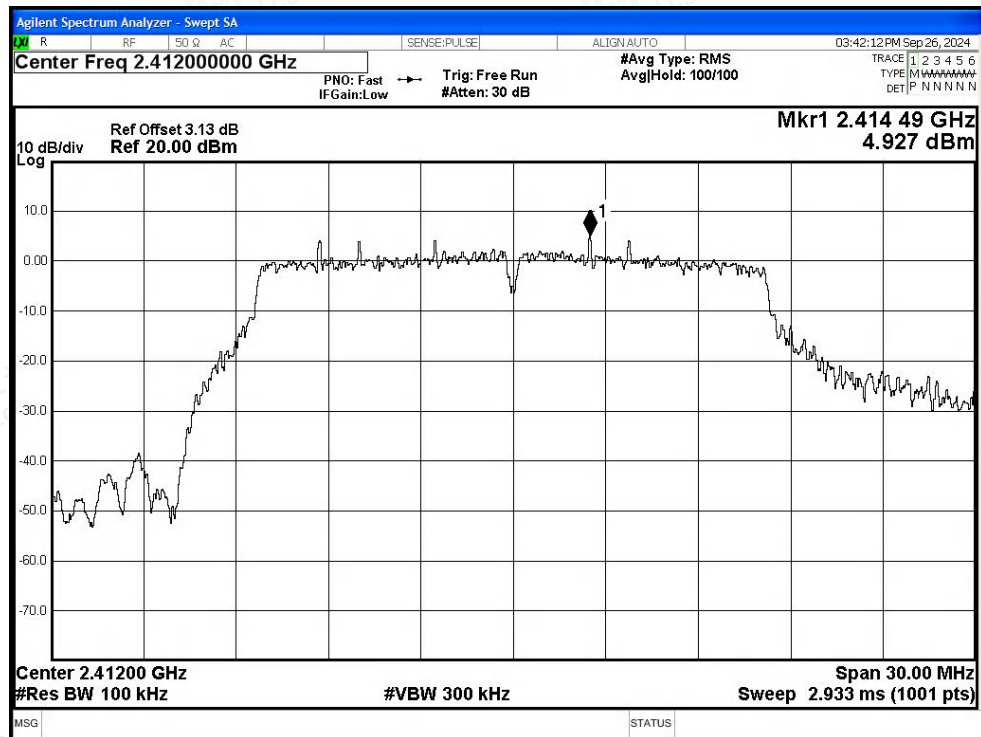
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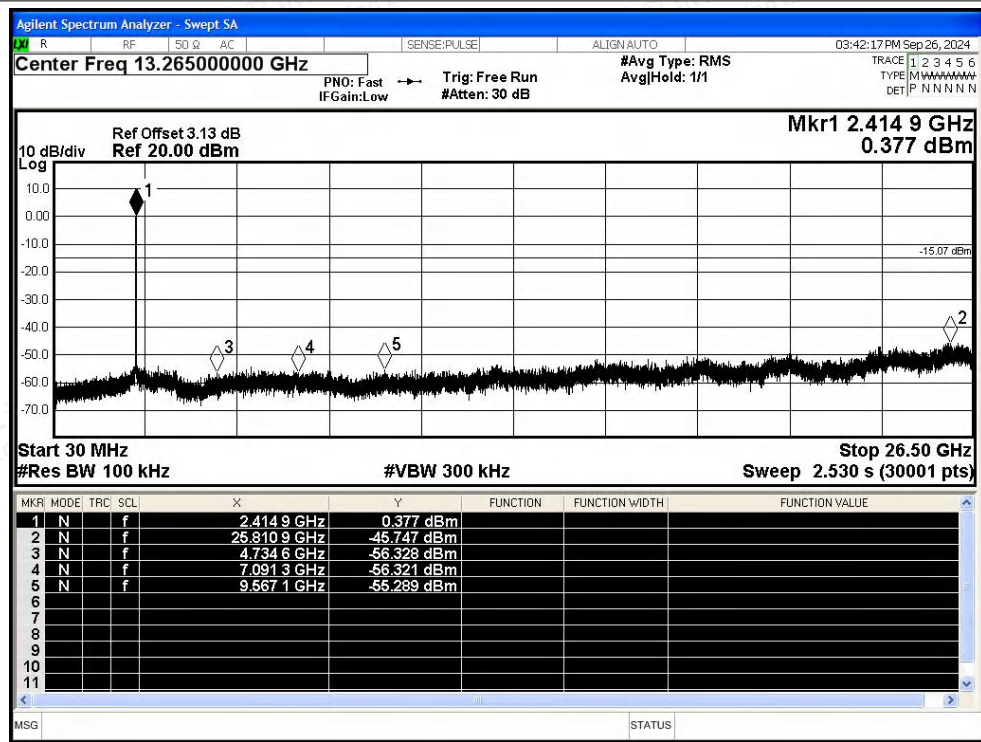
Tx. Spurious NVNT b 2462MHz Ant1 Emission



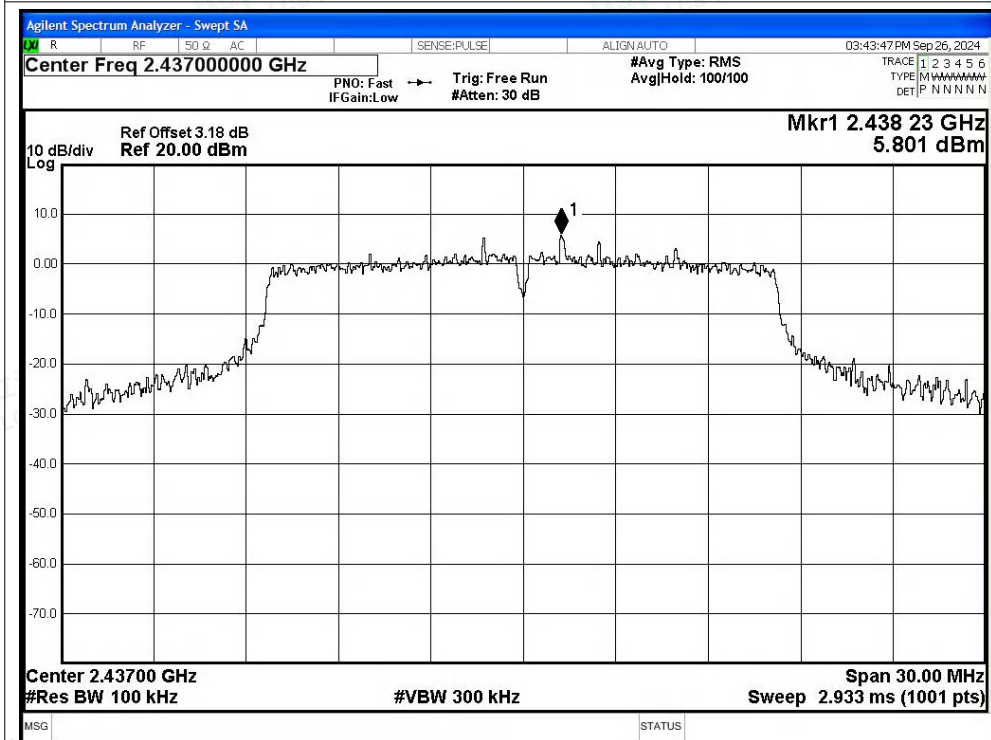
Tx. Spurious NVNT g 2412MHz Ant1 Ref



Tx. Spurious NVNT g 2412MHz Ant1 Emission



Tx. Spurious NVNT g 2437MHz Ant1 Ref



Tx. Spurious NVNT g 2437MHz Ant1 Emission

