



## Appendix C

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

**Product Name: VIDEO PROJECTOR**

**Test Model: HY-300A**

#### Environmental Conditions

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



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## C.1 -6dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | b    | 2412            | Ant1    | 8.591                 | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2437            | Ant1    | 8.112                 | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2462            | Ant1    | 8.079                 | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2412            | Ant1    | 16.055                | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2437            | Ant1    | 16.296                | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2462            | Ant1    | 16.313                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 16.895                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 17.335                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 17.139                | $\geq 0.5$                  | Pass    |
| NVNT      | n40  | 2422            | Ant1    | 35.504                | $\geq 0.5$                  | Pass    |
| NVNT      | n40  | 2437            | Ant1    | 35.871                | $\geq 0.5$                  | Pass    |
| NVNT      | n40  | 2452            | Ant1    | 35.048                | $\geq 0.5$                  | Pass    |



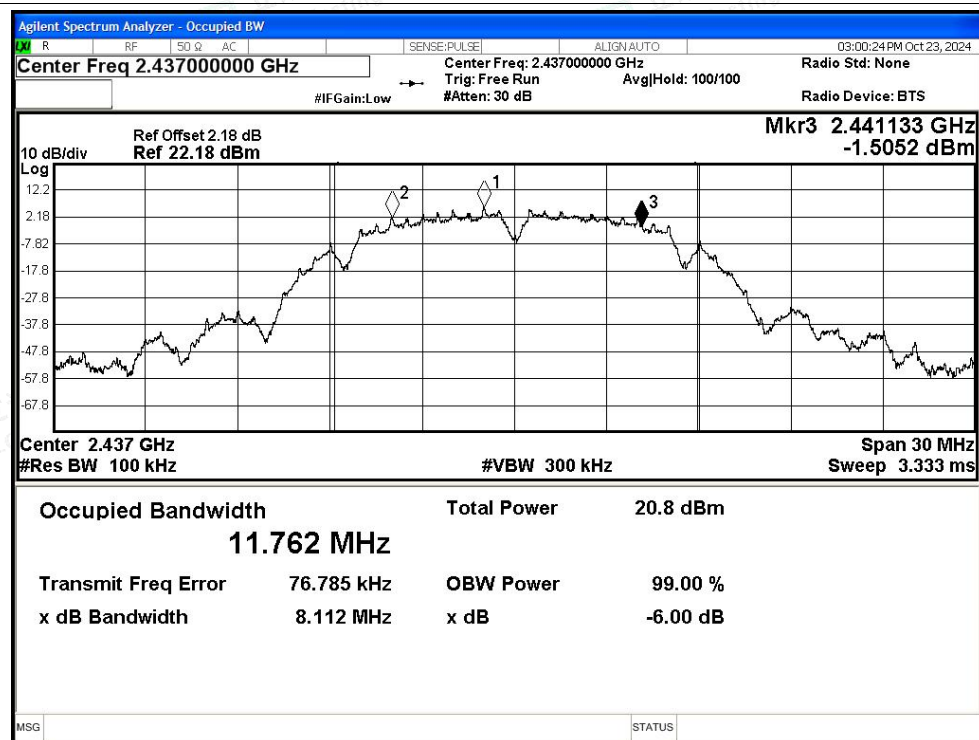


## Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



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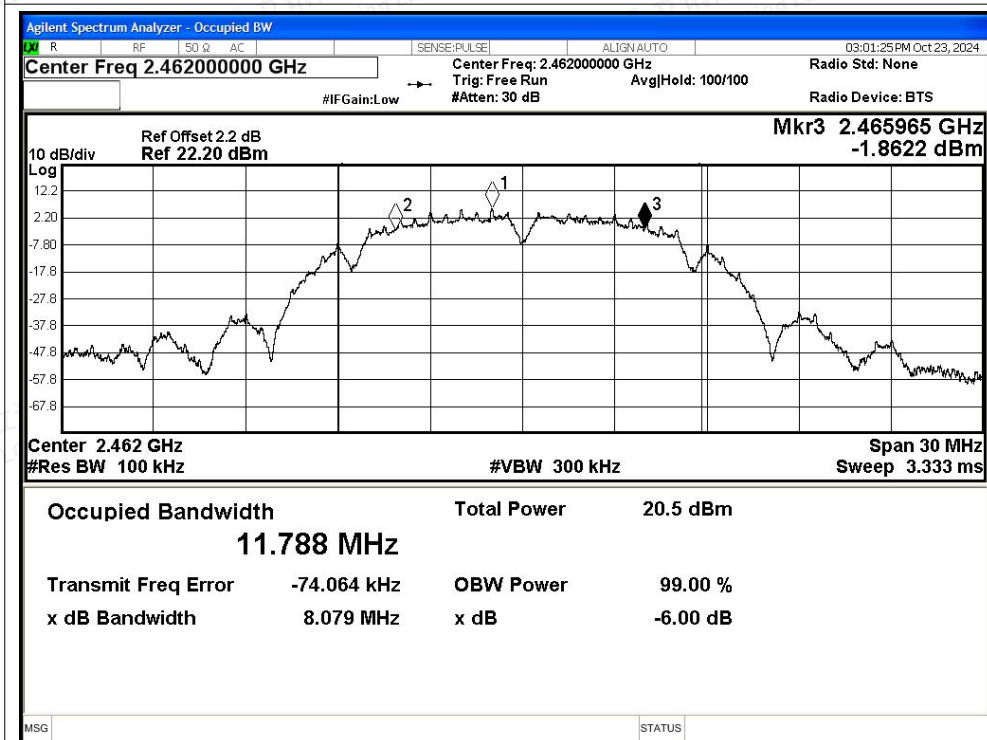
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

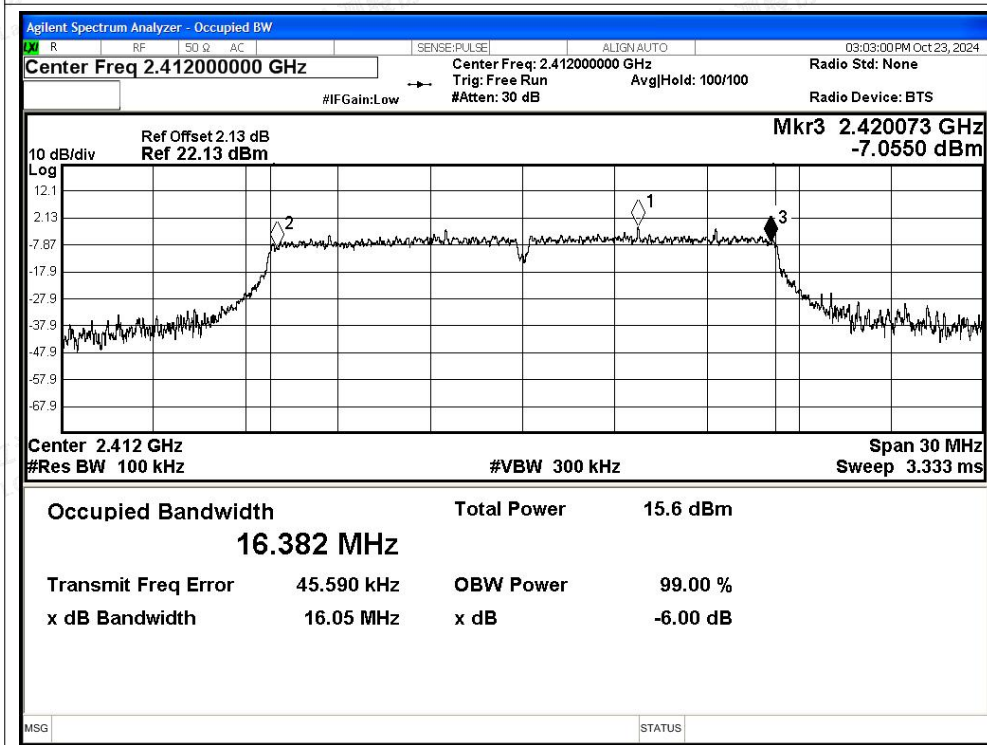
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## -6dB Bandwidth NVNT b 2462MHz Ant1



## -6dB Bandwidth NVNT g 2412MHz Ant1



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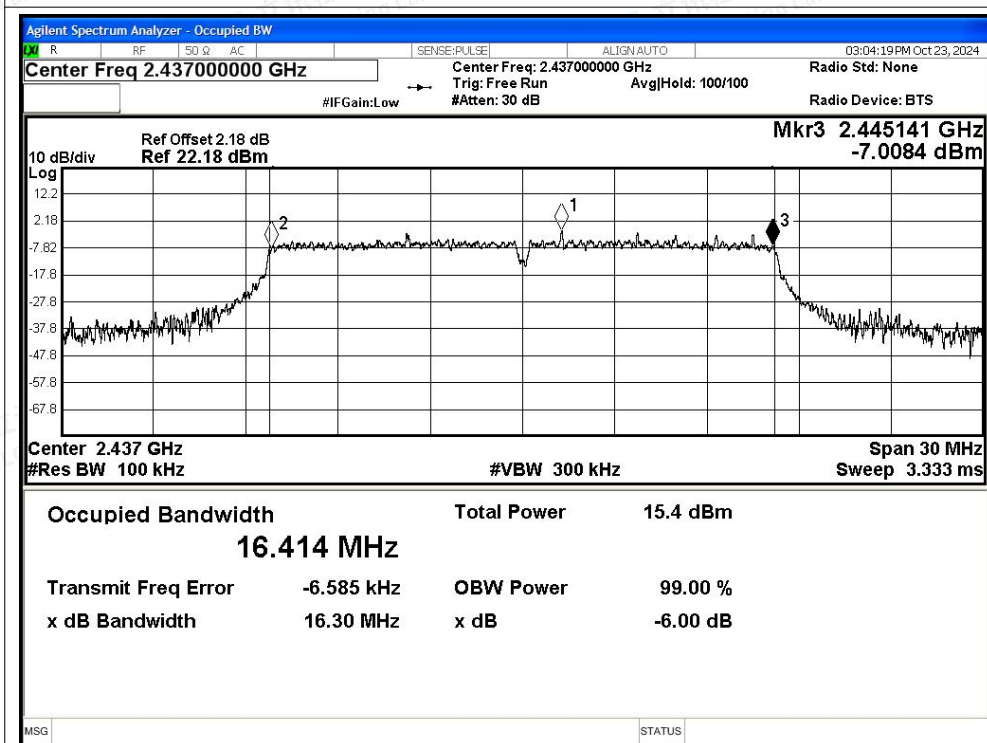
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

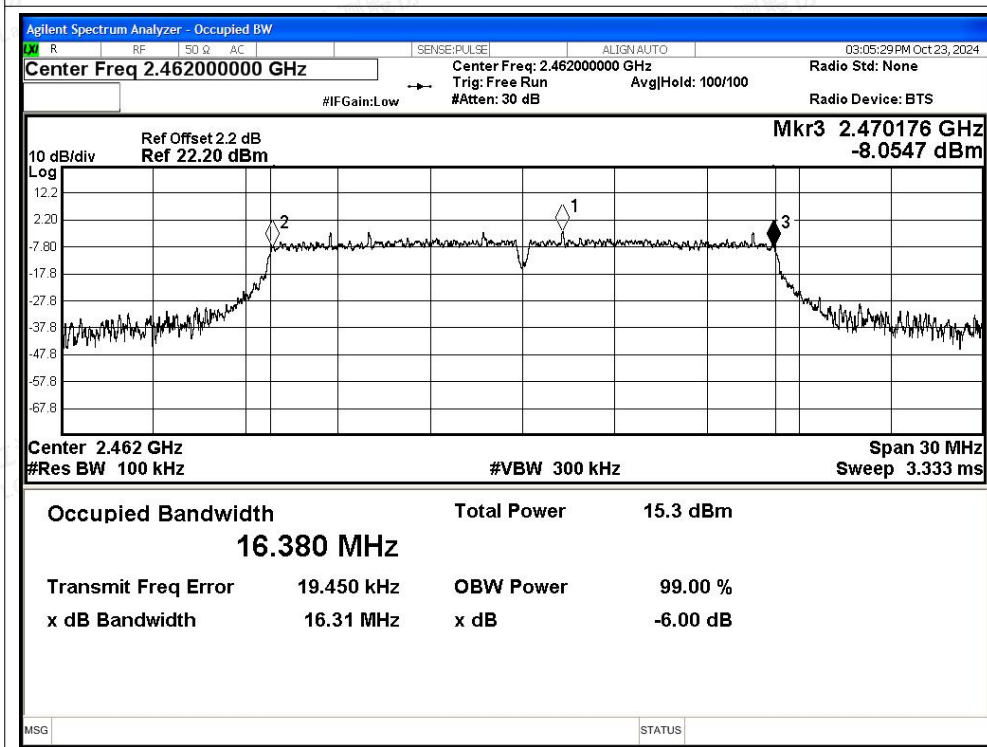
Scan code to check authenticity



-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1



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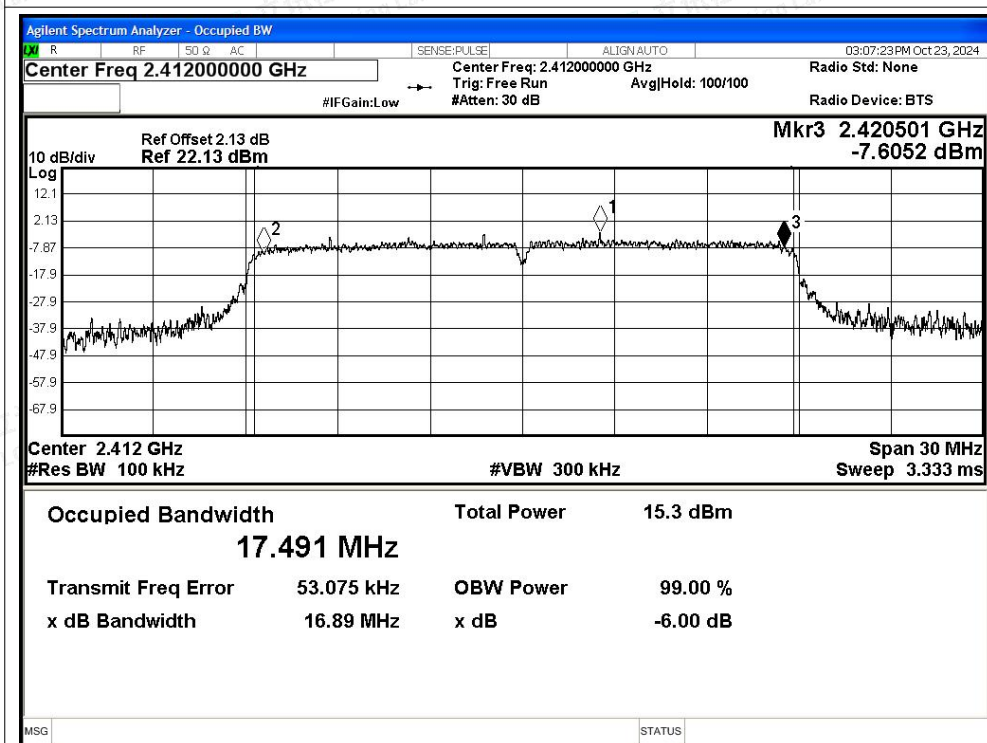
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

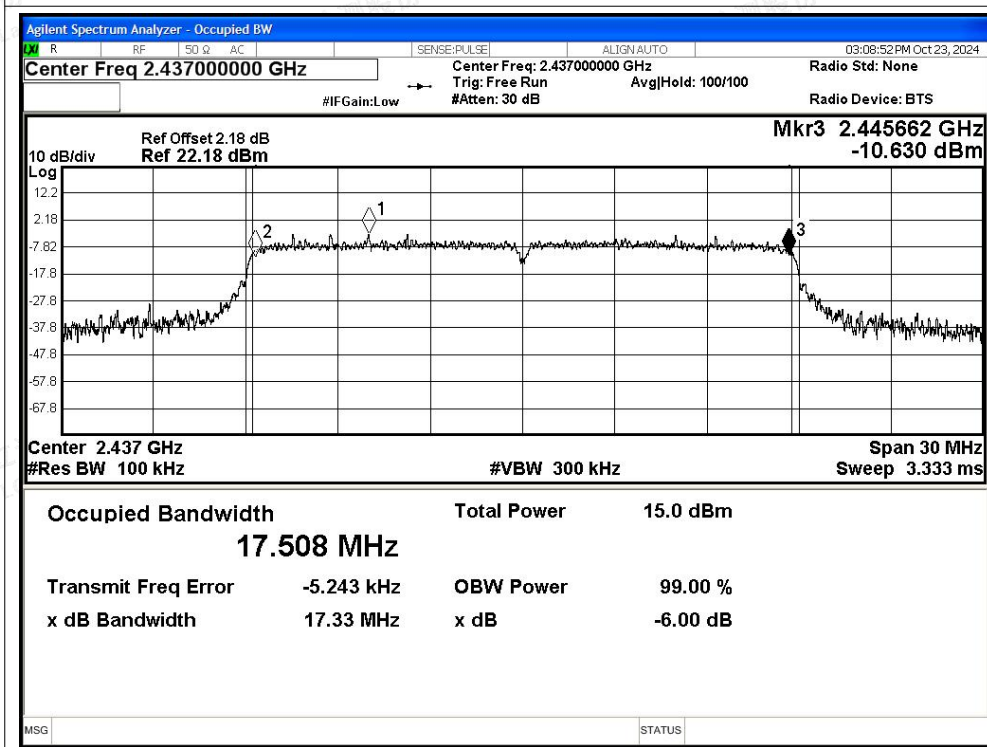
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## -6dB Bandwidth NVNT n20 2412MHz Ant1



## -6dB Bandwidth NVNT n20 2437MHz Ant1



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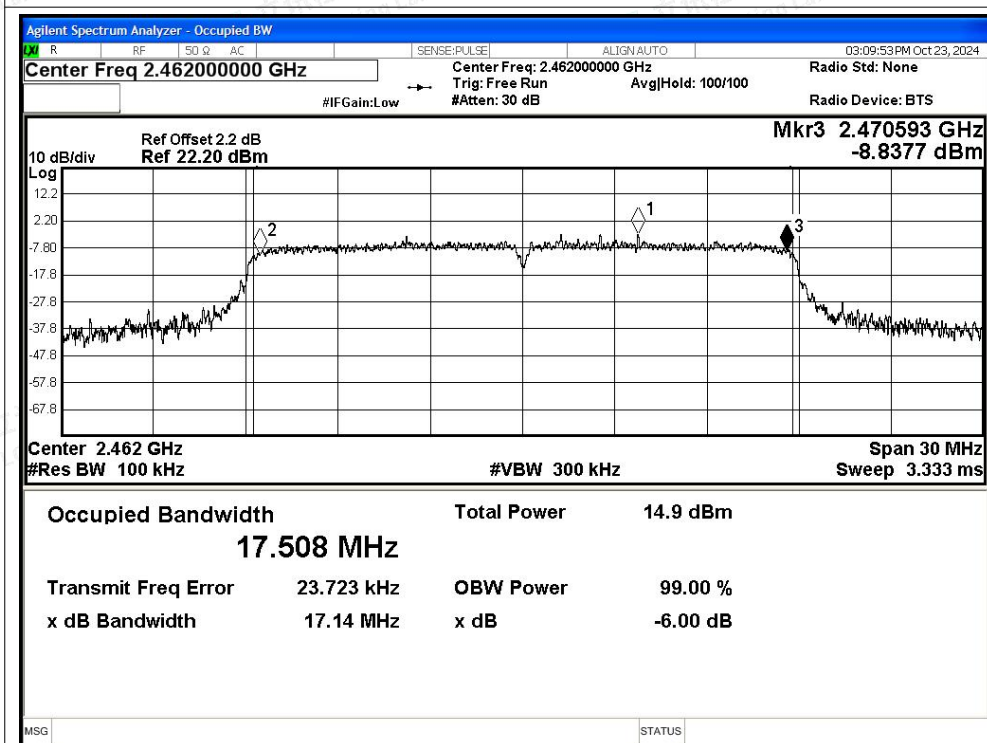
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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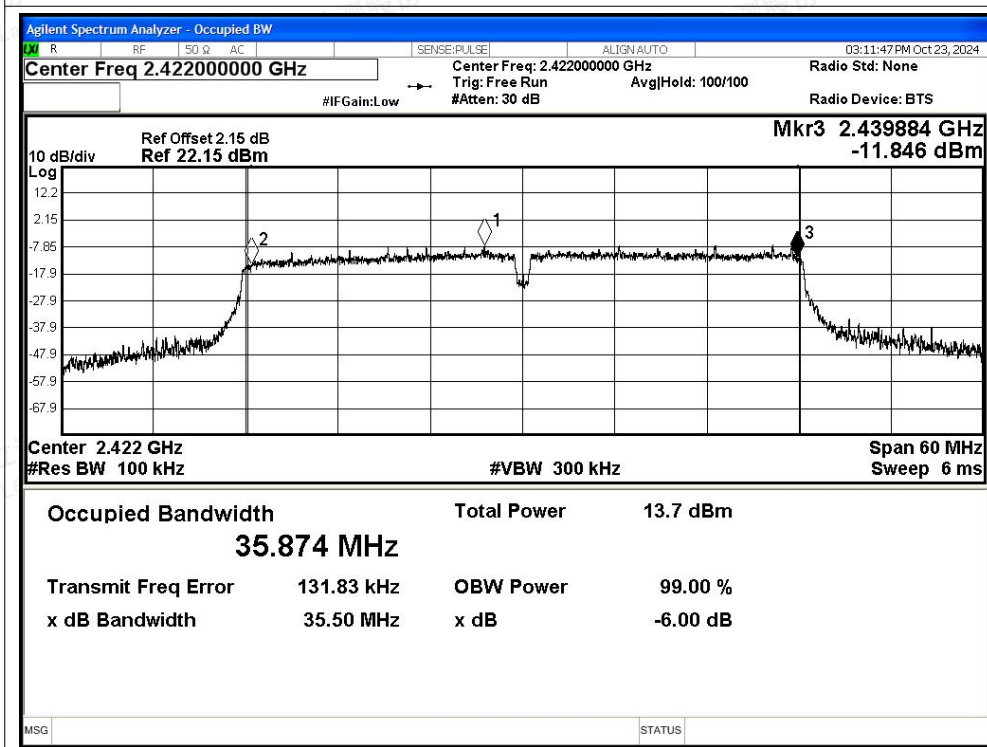




## -6dB Bandwidth NVNT n20 2462MHz Ant1



## -6dB Bandwidth NVNT n40 2422MHz Ant1



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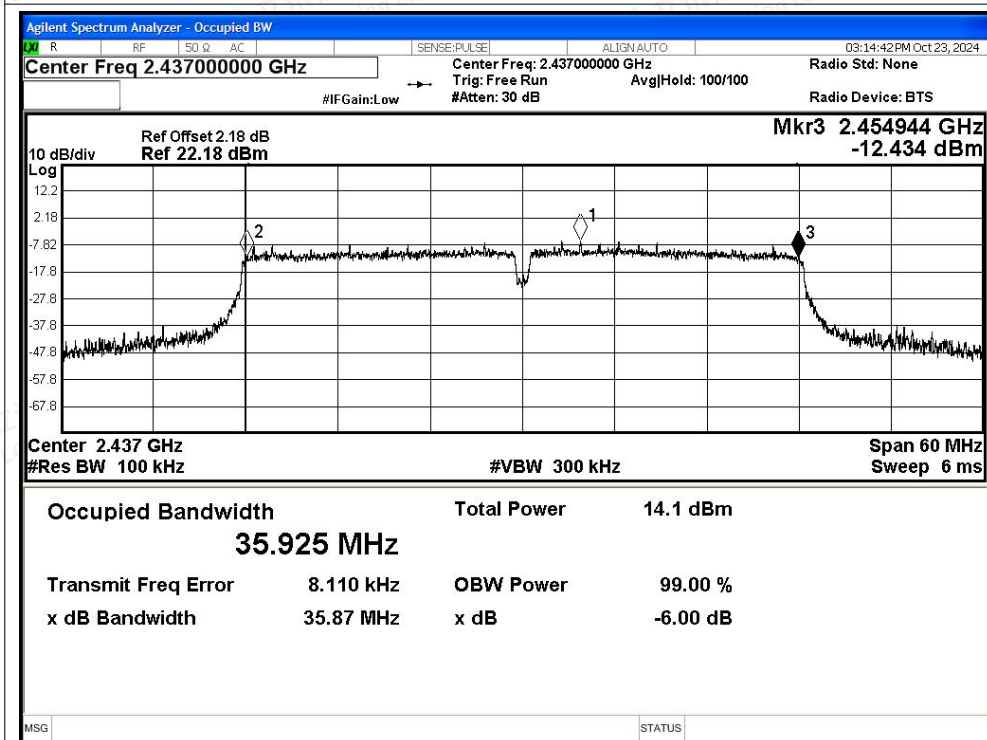
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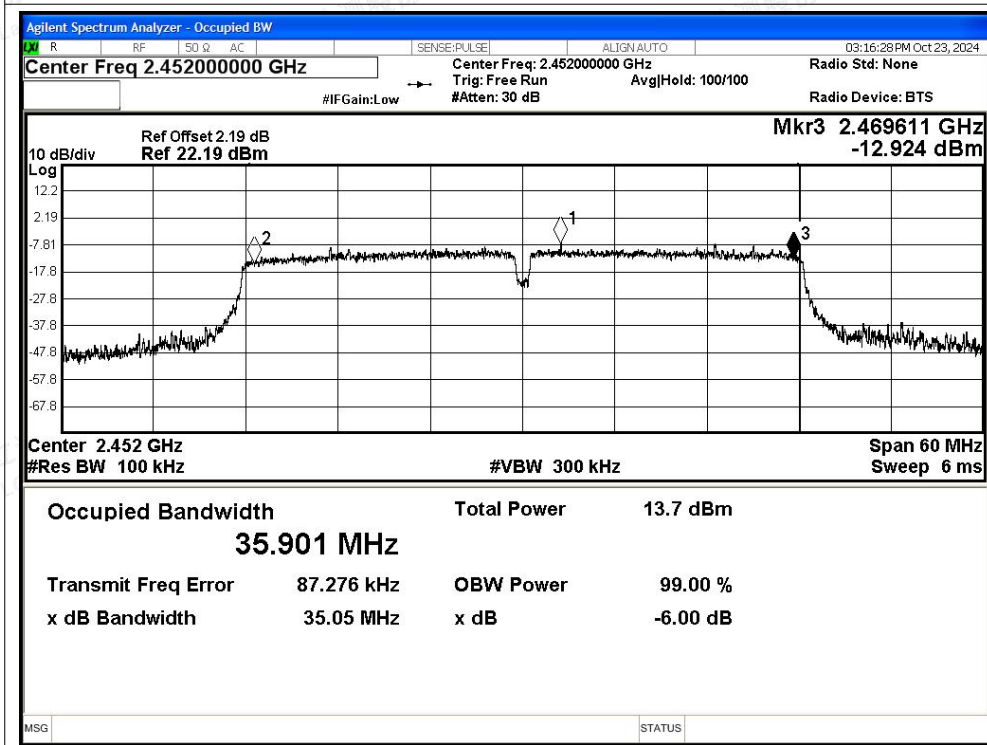
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-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1



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## C.2 Maximum Peak Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | 15.61                 | 30          | Pass    |
| NVNT      | b    | 2437            | Ant1    | 15.82                 | 30          | Pass    |
| NVNT      | b    | 2462            | Ant1    | 15.53                 | 30          | Pass    |
| NVNT      | g    | 2412            | Ant1    | 14.4                  | 30          | Pass    |
| NVNT      | g    | 2437            | Ant1    | 14.16                 | 30          | Pass    |
| NVNT      | g    | 2462            | Ant1    | 14.06                 | 30          | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 13.92                 | 30          | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 13.57                 | 30          | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 13.47                 | 30          | Pass    |
| NVNT      | n40  | 2422            | Ant1    | 12.2                  | 30          | Pass    |
| NVNT      | n40  | 2437            | Ant1    | 12.52                 | 30          | Pass    |
| NVNT      | n40  | 2452            | Ant1    | 12.18                 | 30          | Pass    |



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### C.3 Maximum Power Spectral Density Level

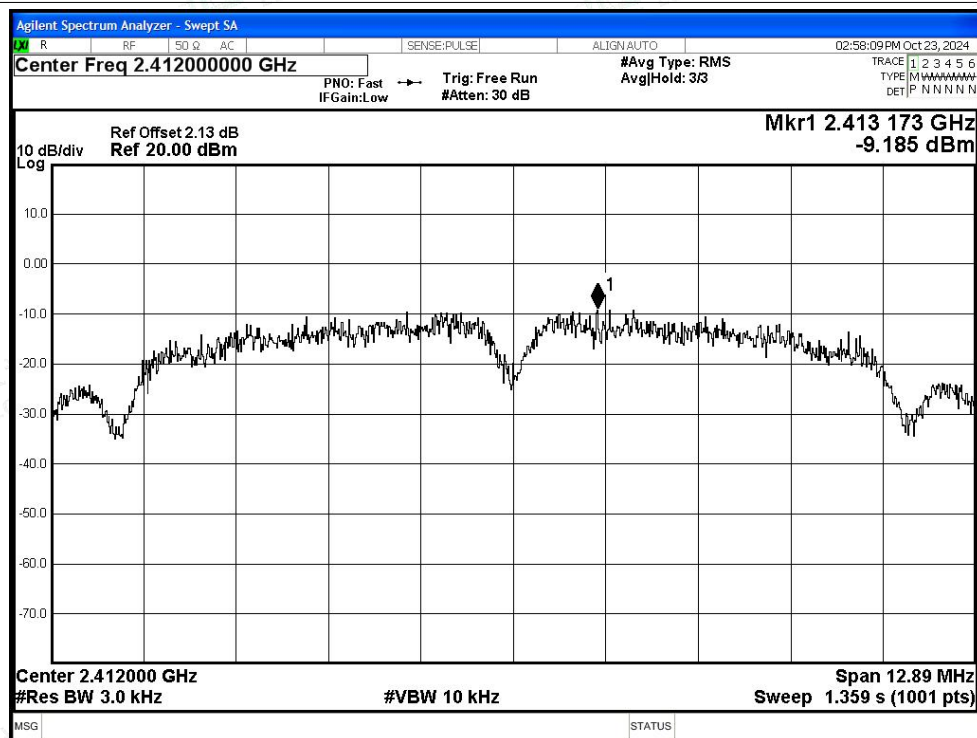
| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|------|-----------------|---------|--------------------------|------------------|---------|
| NVNT      | b    | 2412            | Ant1    | -9.19                    | 8                | Pass    |
| NVNT      | b    | 2437            | Ant1    | -8.64                    | 8                | Pass    |
| NVNT      | b    | 2462            | Ant1    | -8.55                    | 8                | Pass    |
| NVNT      | g    | 2412            | Ant1    | -15.97                   | 8                | Pass    |
| NVNT      | g    | 2437            | Ant1    | -16.88                   | 8                | Pass    |
| NVNT      | g    | 2462            | Ant1    | -16.52                   | 8                | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -15.71                   | 8                | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -17.83                   | 8                | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -17.04                   | 8                | Pass    |
| NVNT      | n40  | 2422            | Ant1    | -21.46                   | 8                | Pass    |
| NVNT      | n40  | 2437            | Ant1    | -20.57                   | 8                | Pass    |
| NVNT      | n40  | 2452            | Ant1    | -20.67                   | 8                | Pass    |



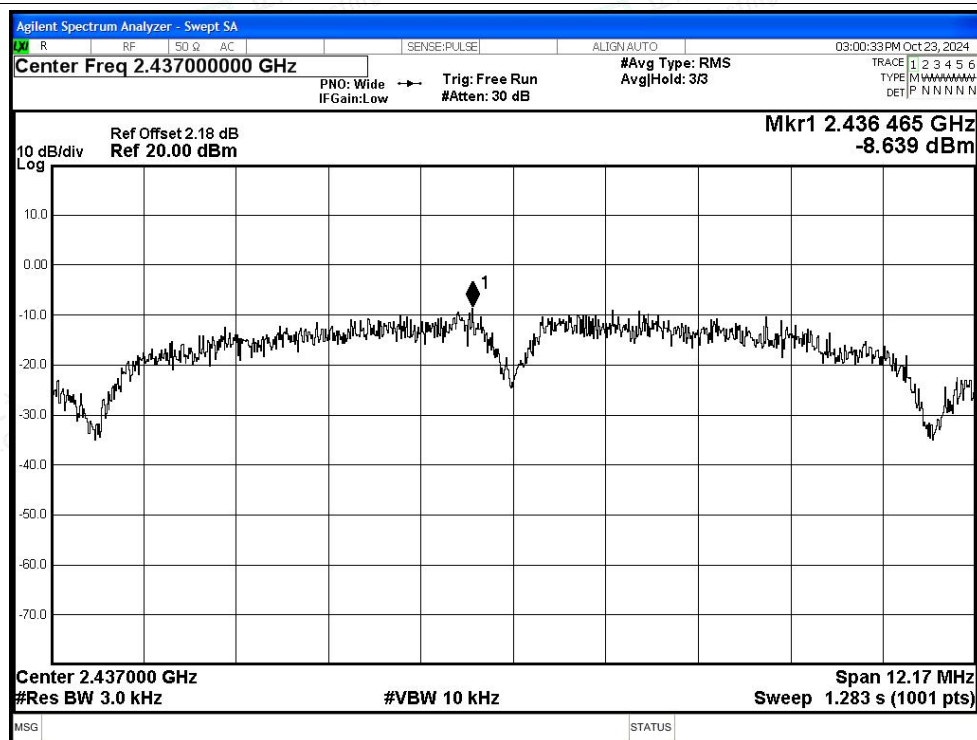


## Test Graphs

## PSD NVNT b 2412MHz Ant1



## PSD NVNT b 2437MHz Ant1



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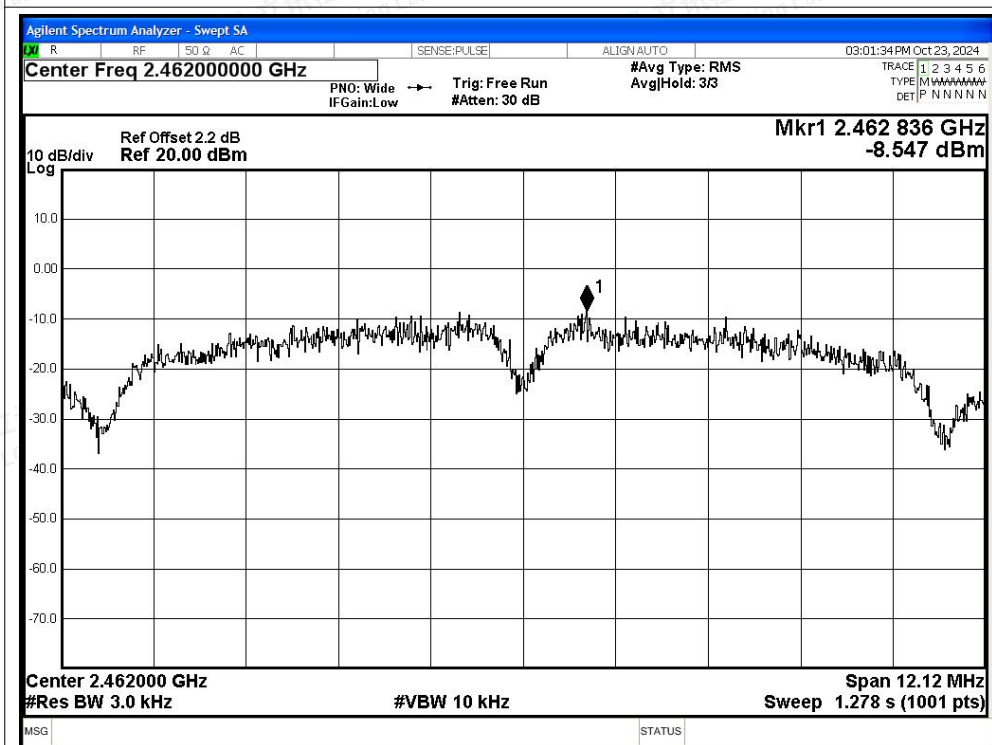
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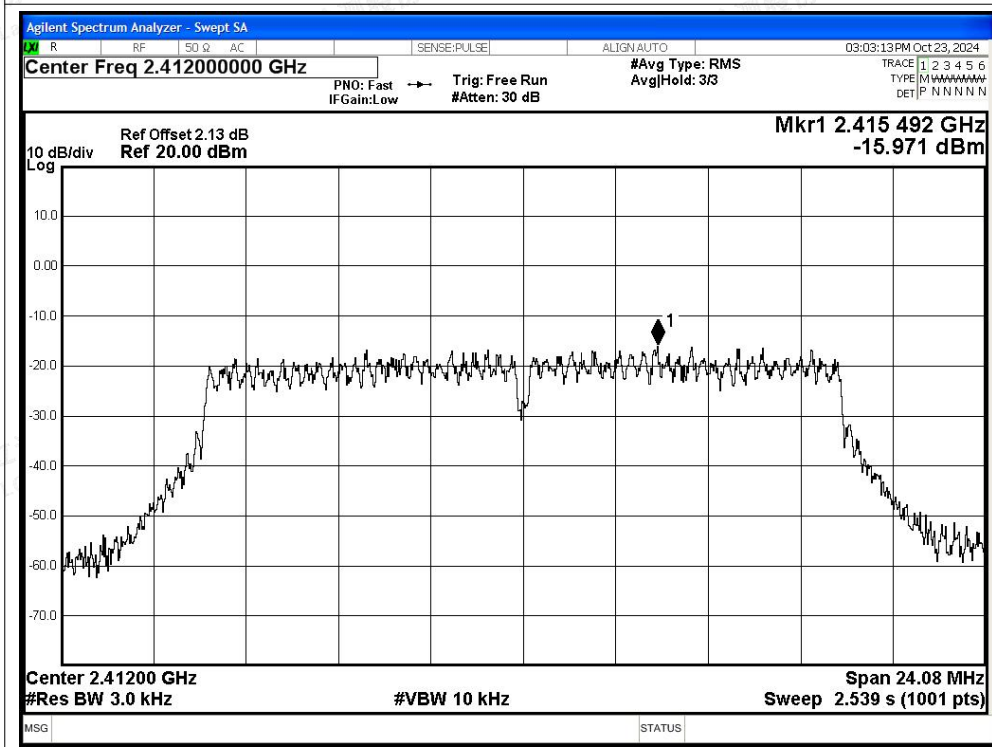
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PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1



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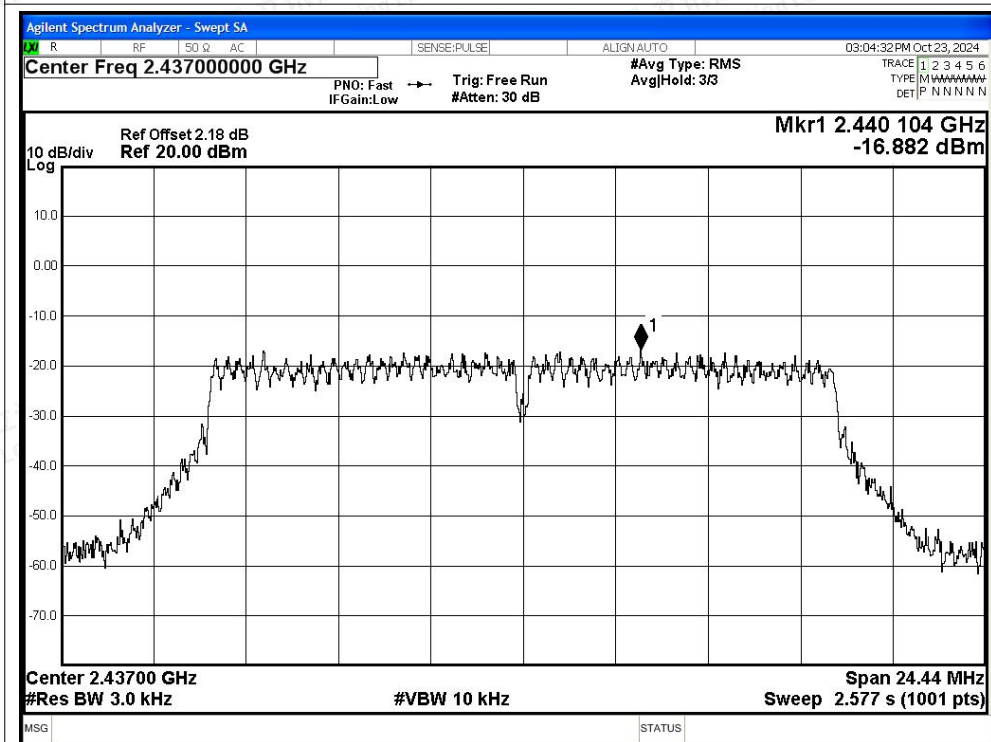
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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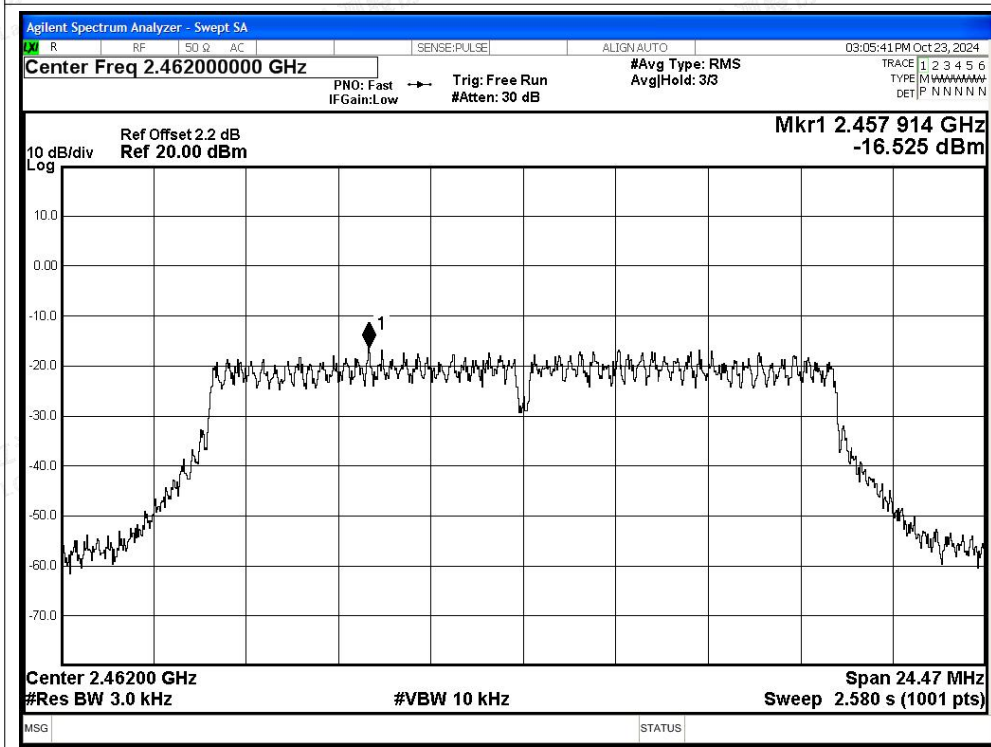
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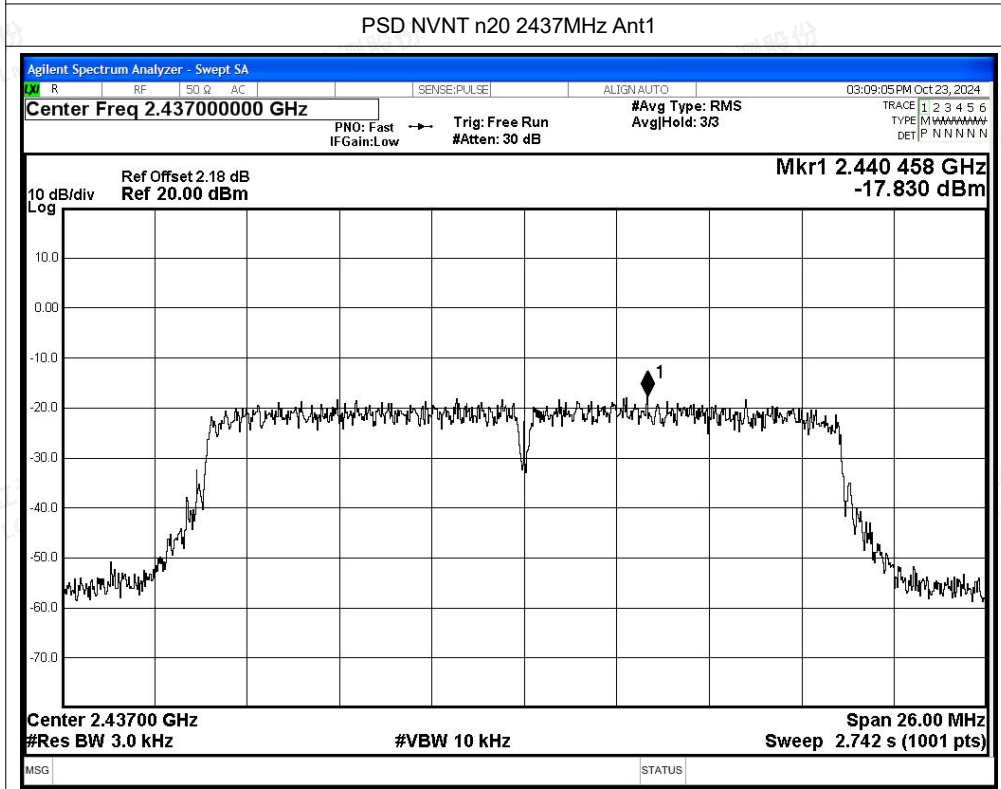
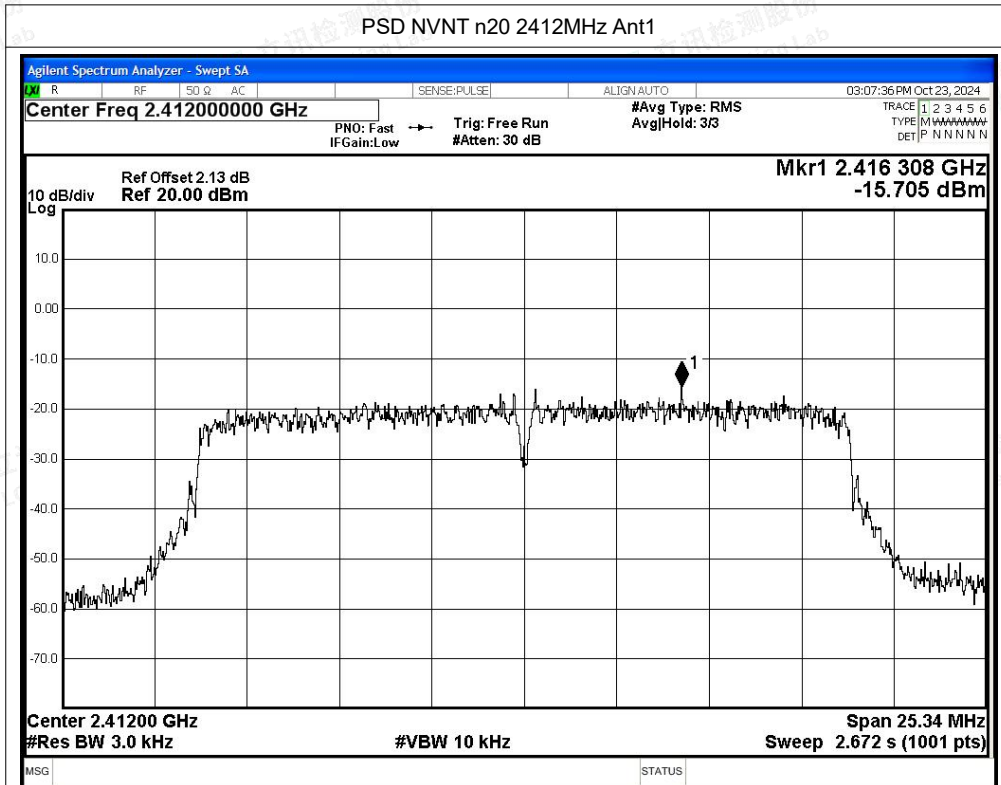
PSD NVNT g 2437MHz Ant1

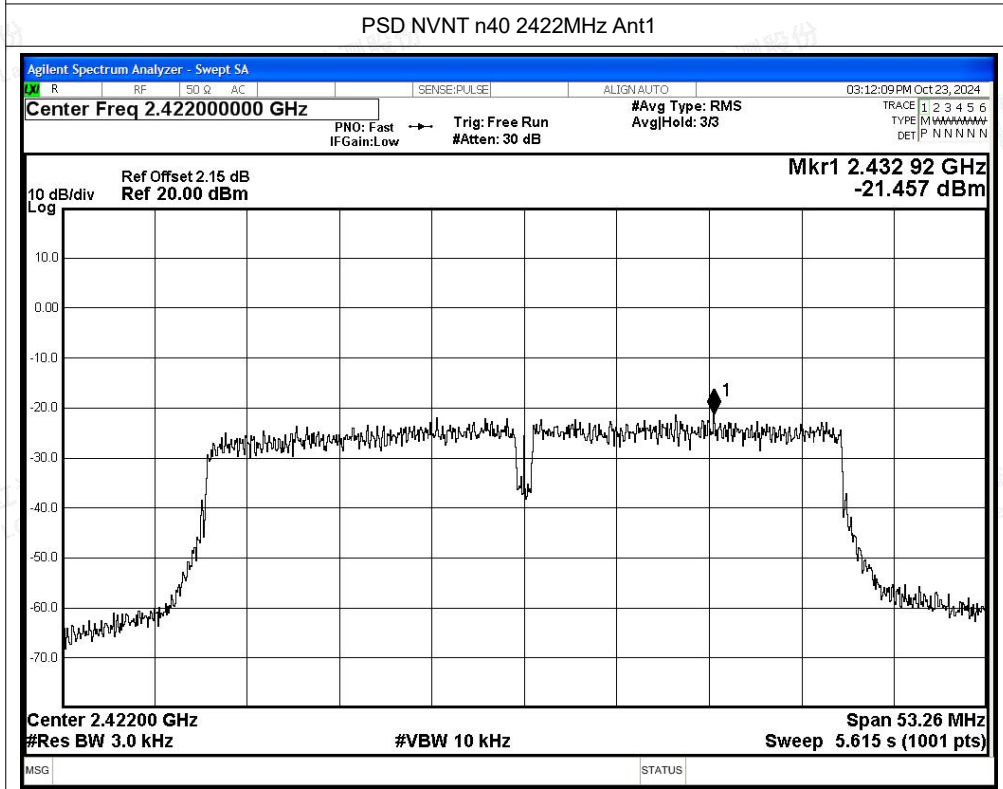
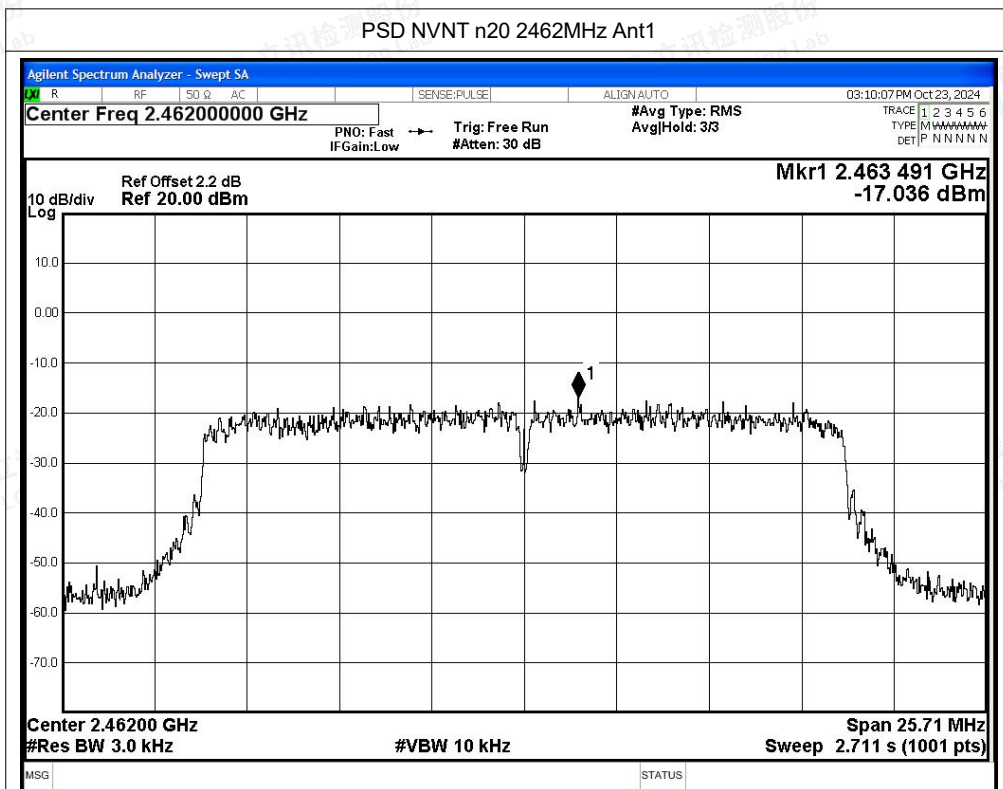


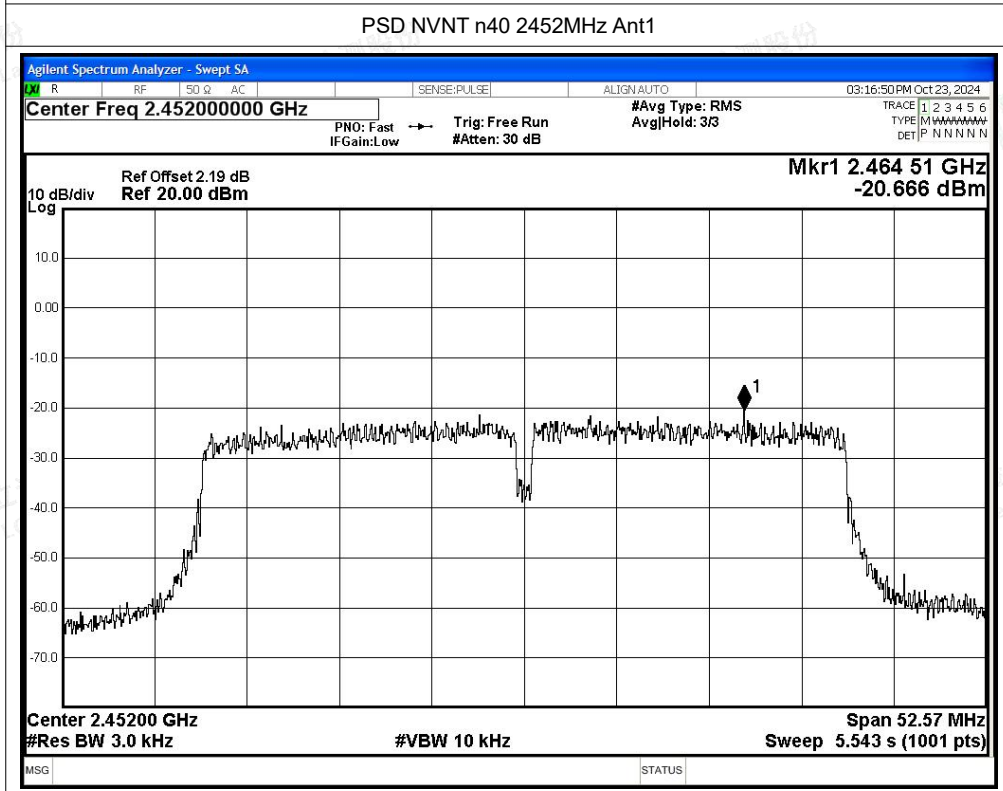
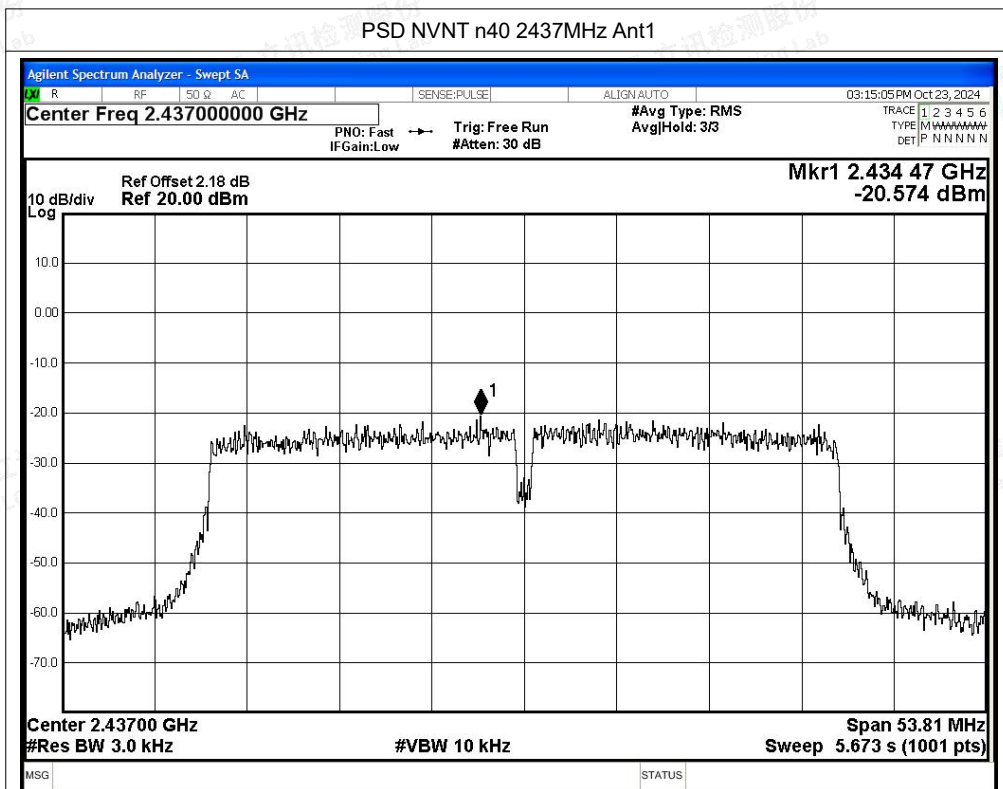
PSD NVNT g 2462MHz Ant1













## C.4 Band Edge

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -48.54          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -58.27          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -32.64          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -43.44          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -29.59          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -40.01          | -20         | Pass    |
| NVNT      | n40  | 2422            | Ant1    | -35.89          | -20         | Pass    |
| NVNT      | n40  | 2452            | Ant1    | -38.17          | -20         | Pass    |



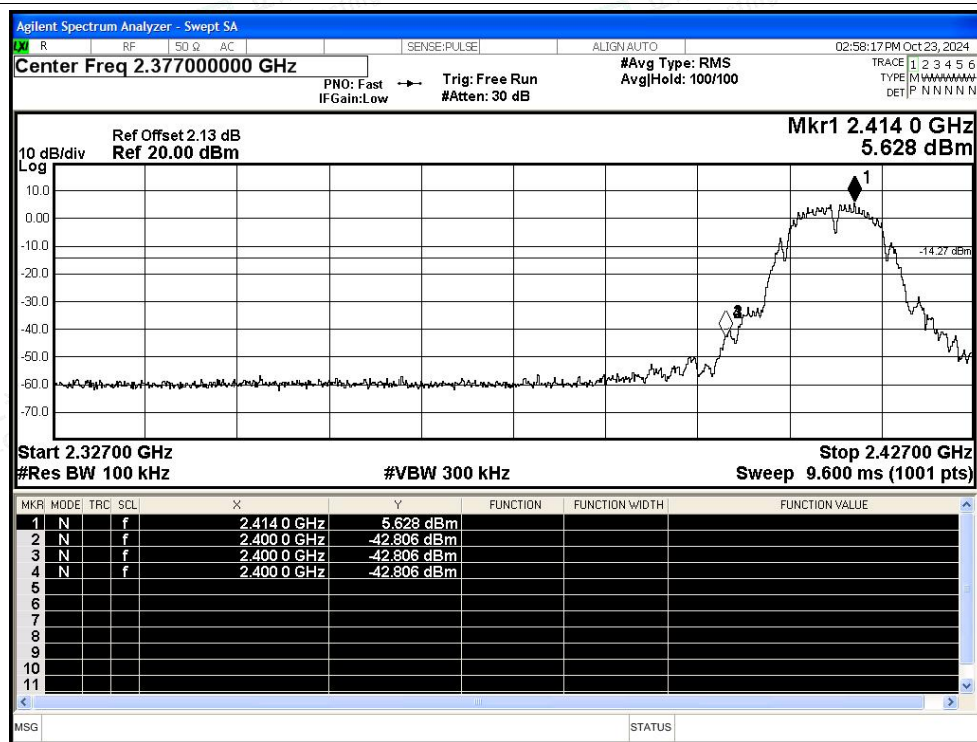


## Test Graphs

## Band Edge NVNT b 2412MHz Ant1 Ref



## Band Edge NVNT b 2412MHz Ant1 Emission



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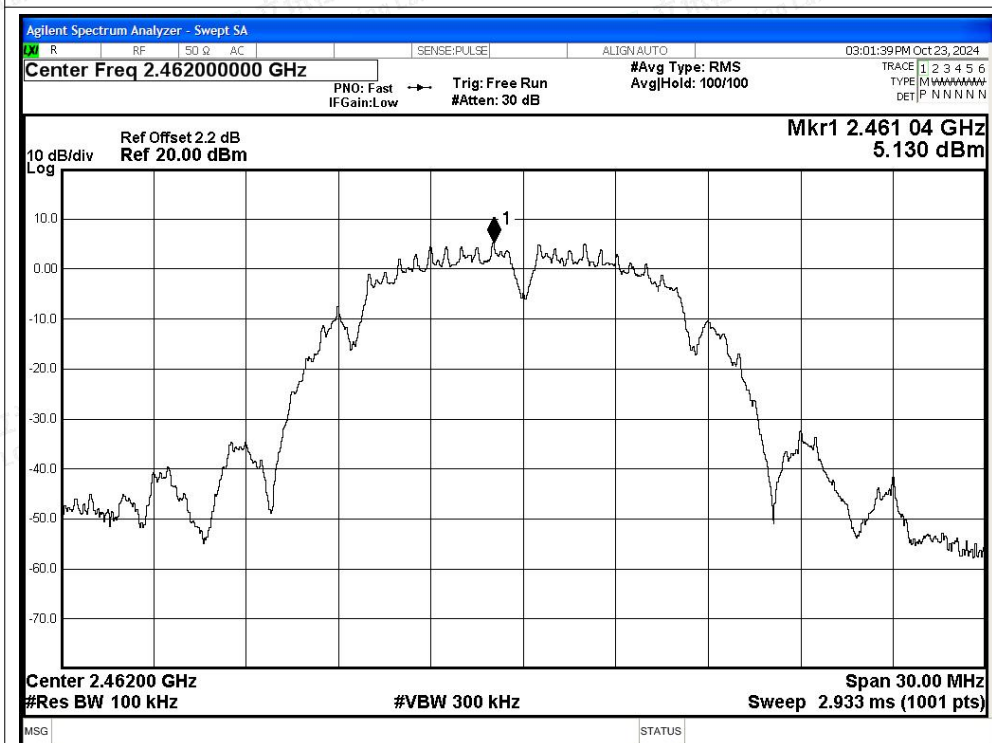
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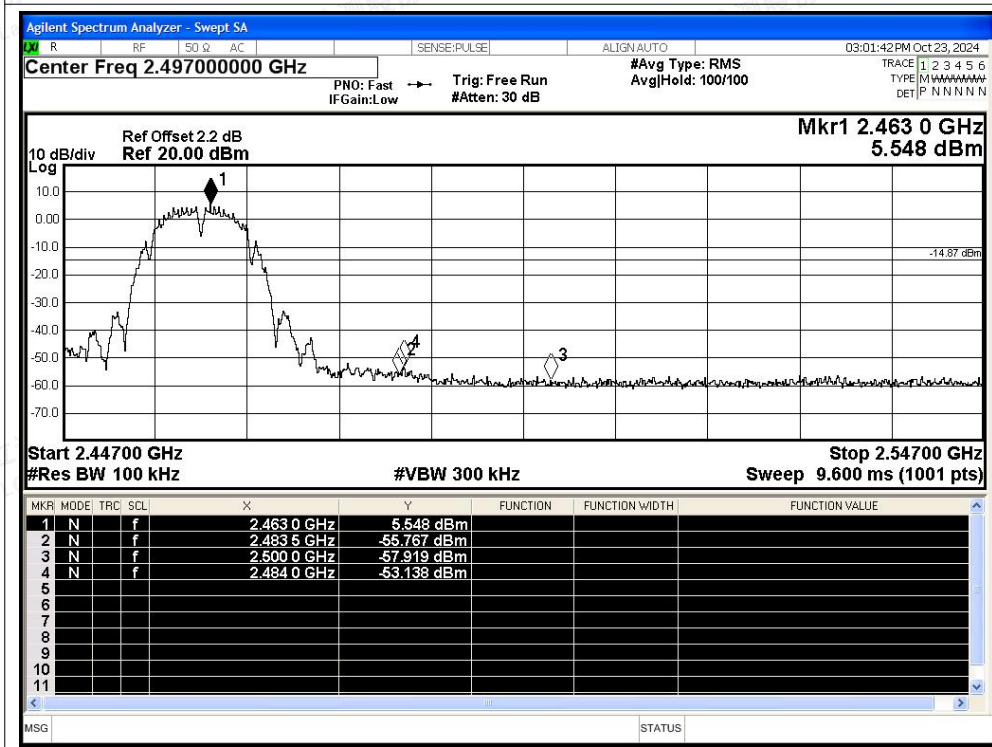
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## Band Edge NVNT b 2462MHz Ant1 Ref



## Band Edge NVNT b 2462MHz Ant1 Emission



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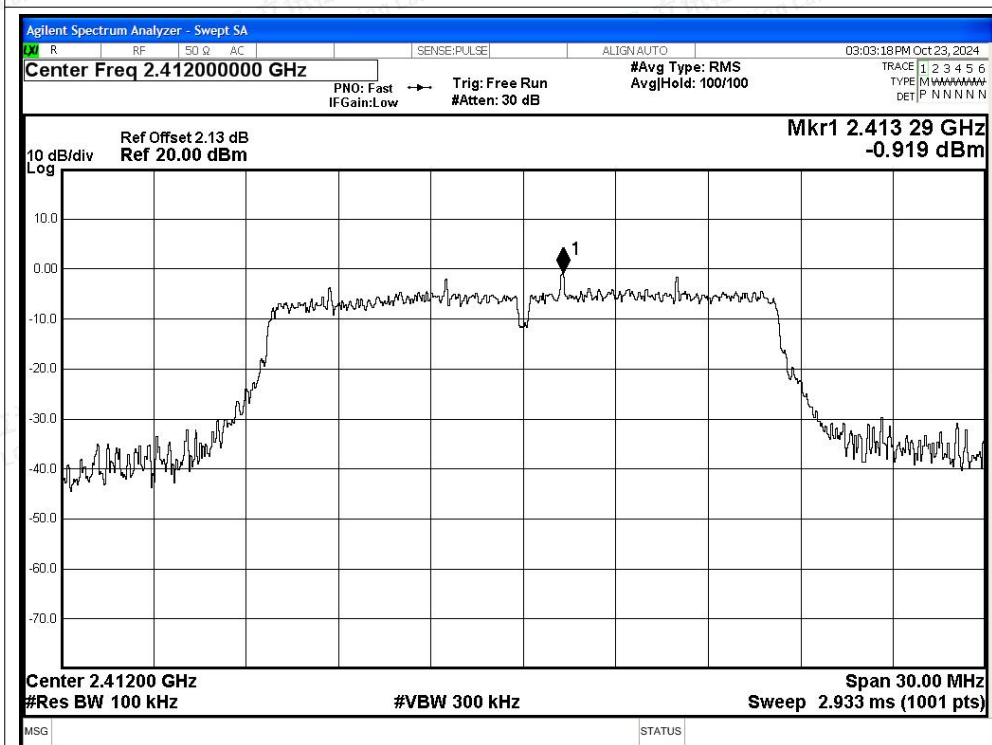
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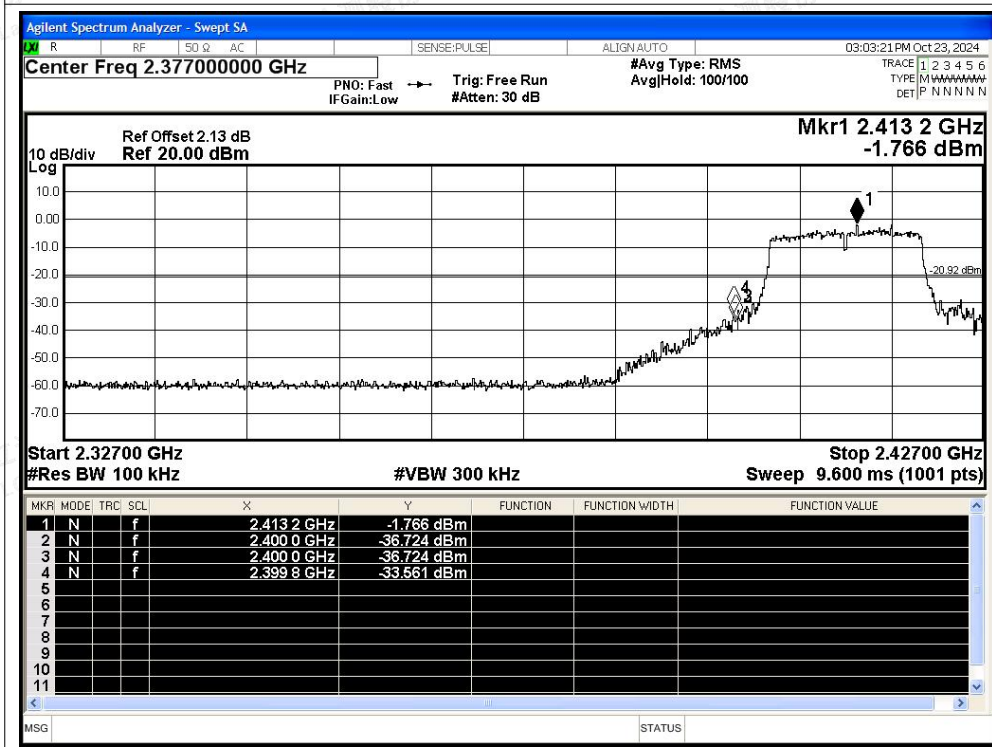




## Band Edge NVNT g 2412MHz Ant1 Ref



## Band Edge NVNT g 2412MHz Ant1 Emission



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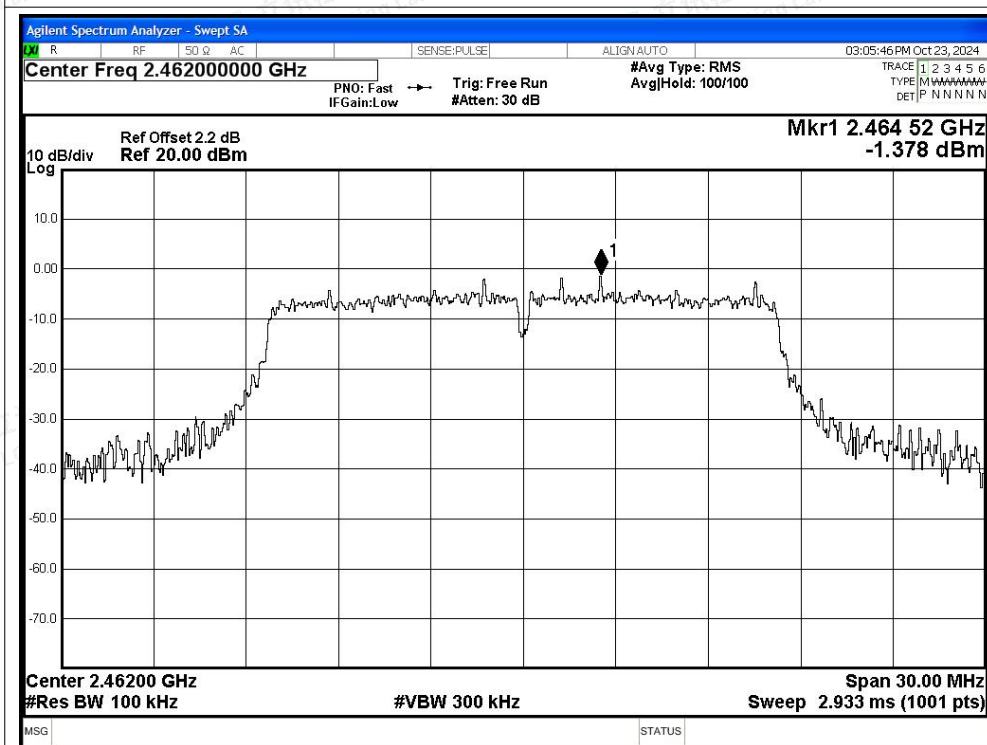
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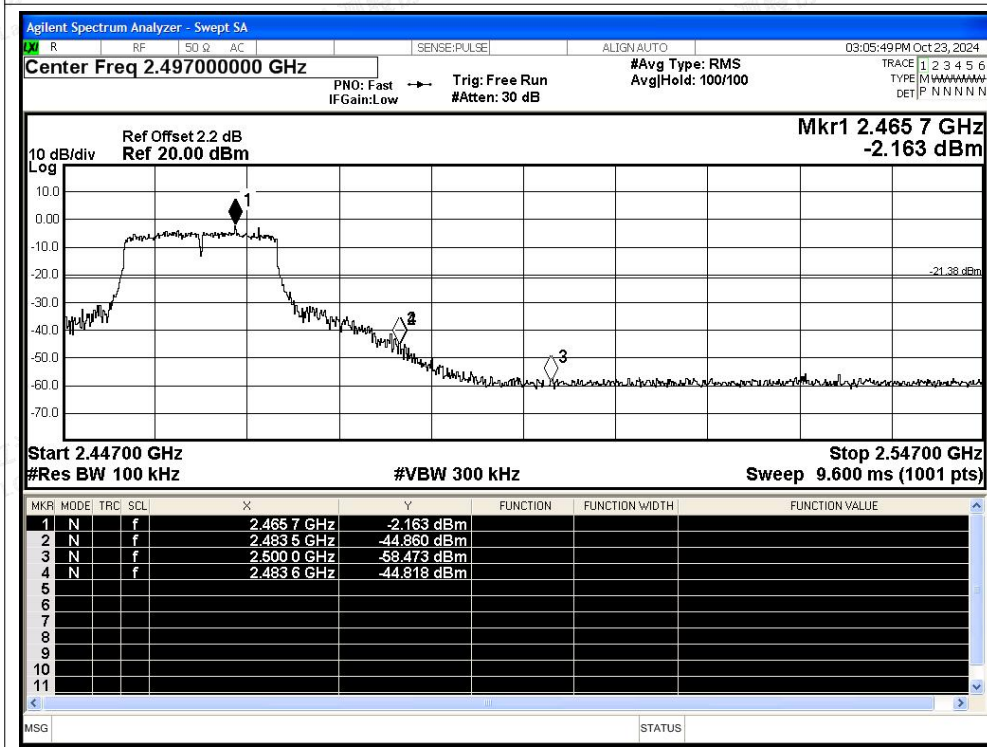
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## Band Edge NVNT g 2462MHz Ant1 Ref

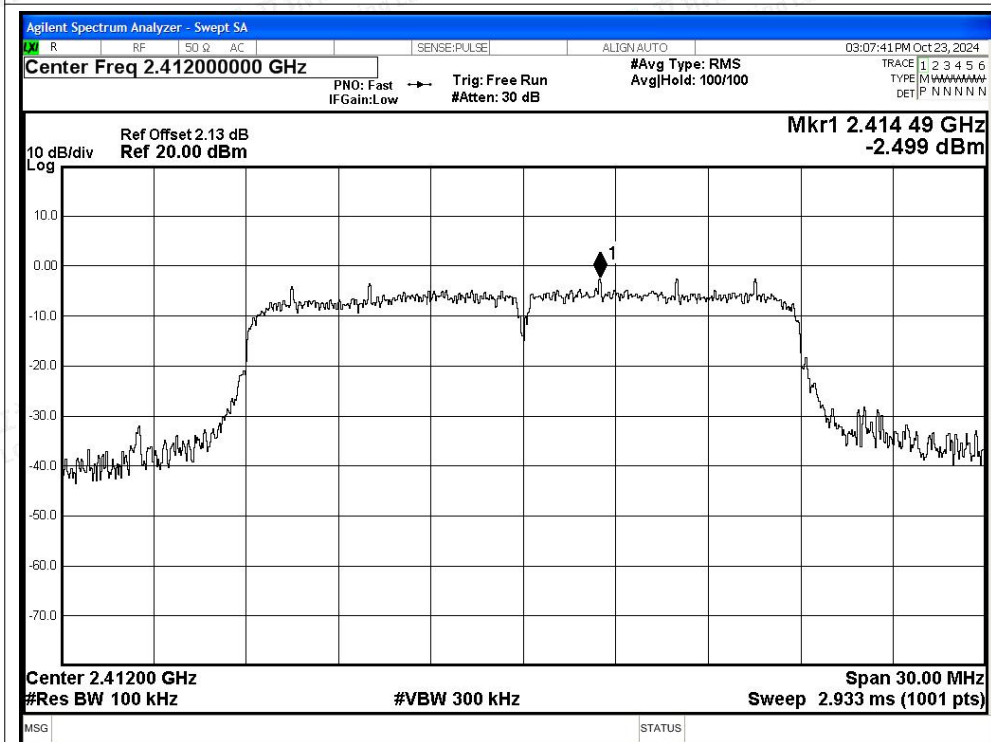


## Band Edge NVNT g 2462MHz Ant1 Emission

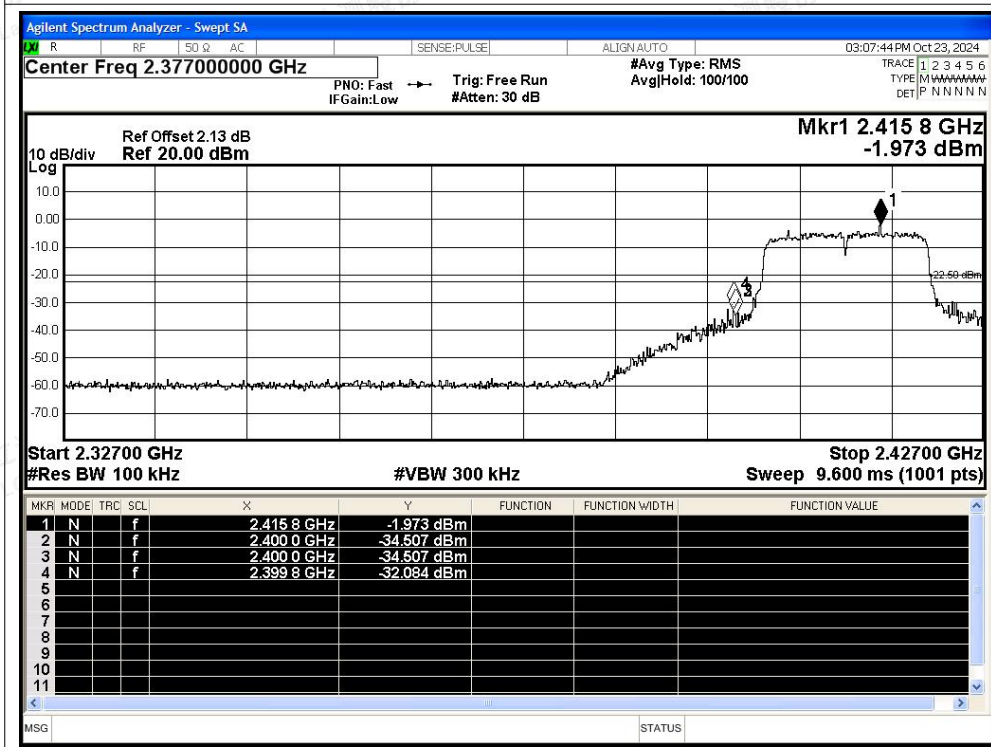




## Band Edge NVNT n20 2412MHz Ant1 Ref

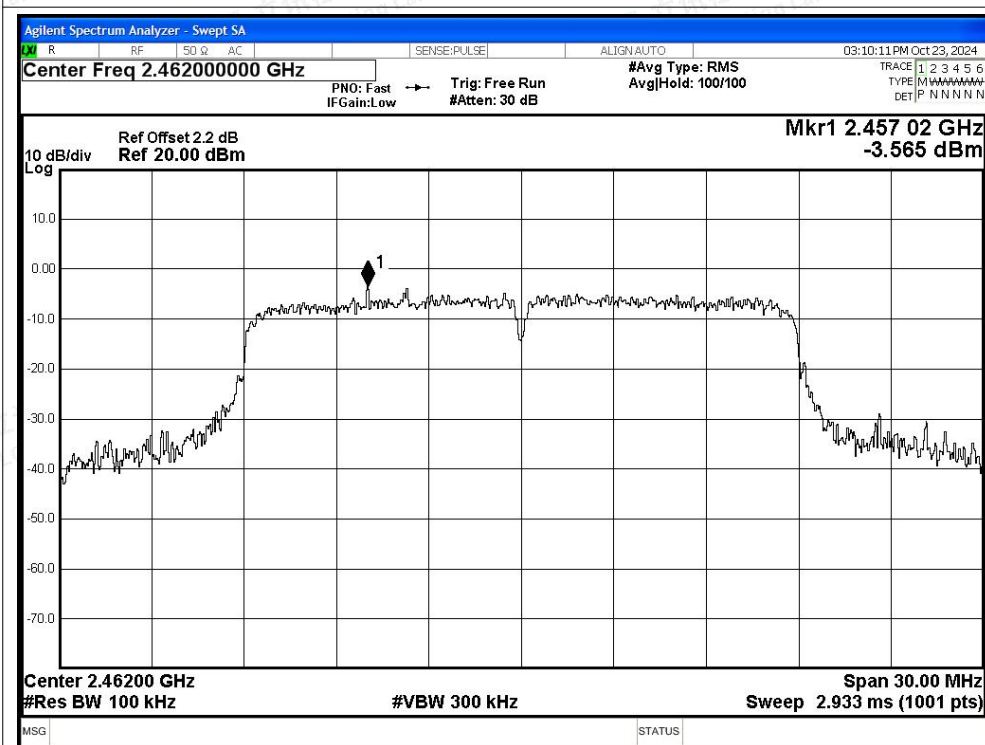


## Band Edge NVNT n20 2412MHz Ant1 Emission

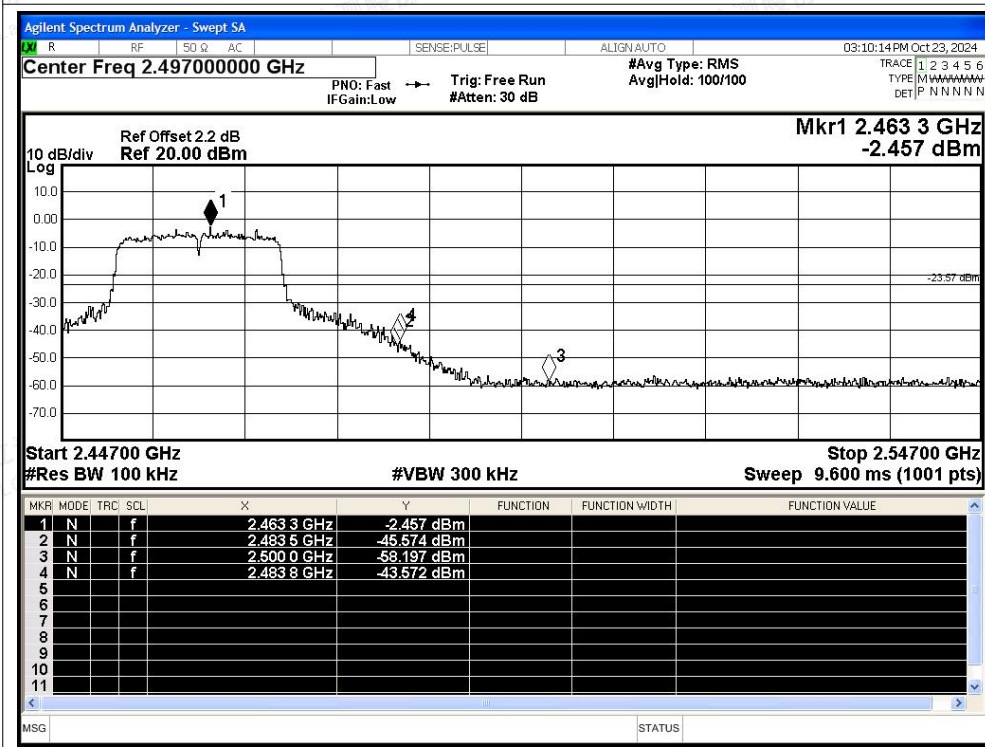




## Band Edge NVNT n20 2462MHz Ant1 Ref

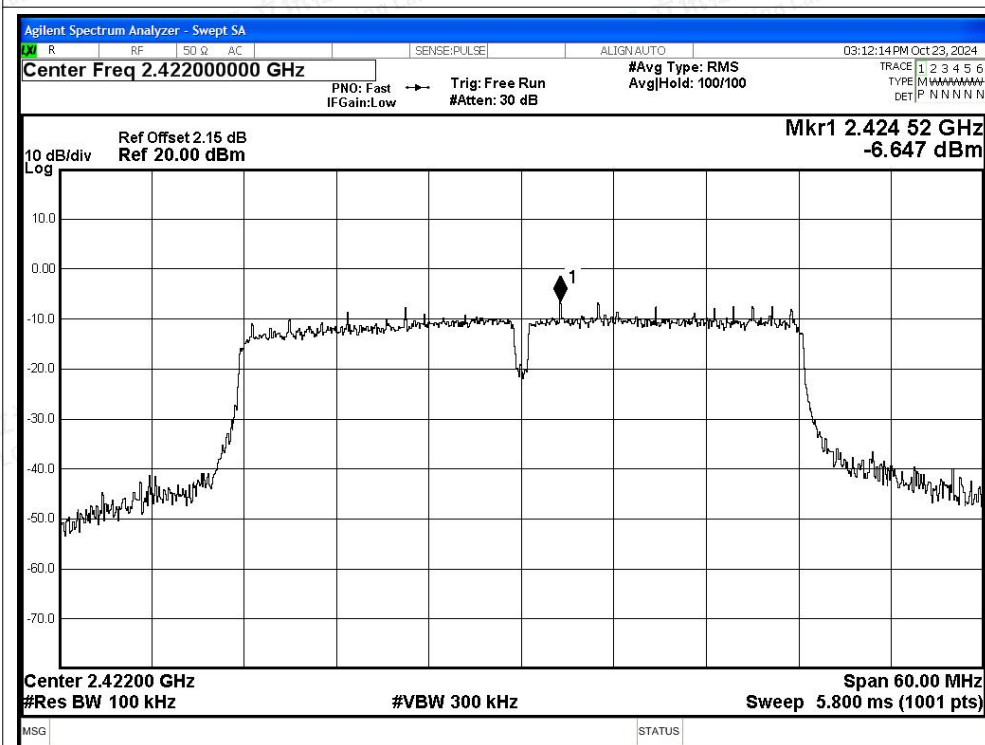


## Band Edge NVNT n20 2462MHz Ant1 Emission

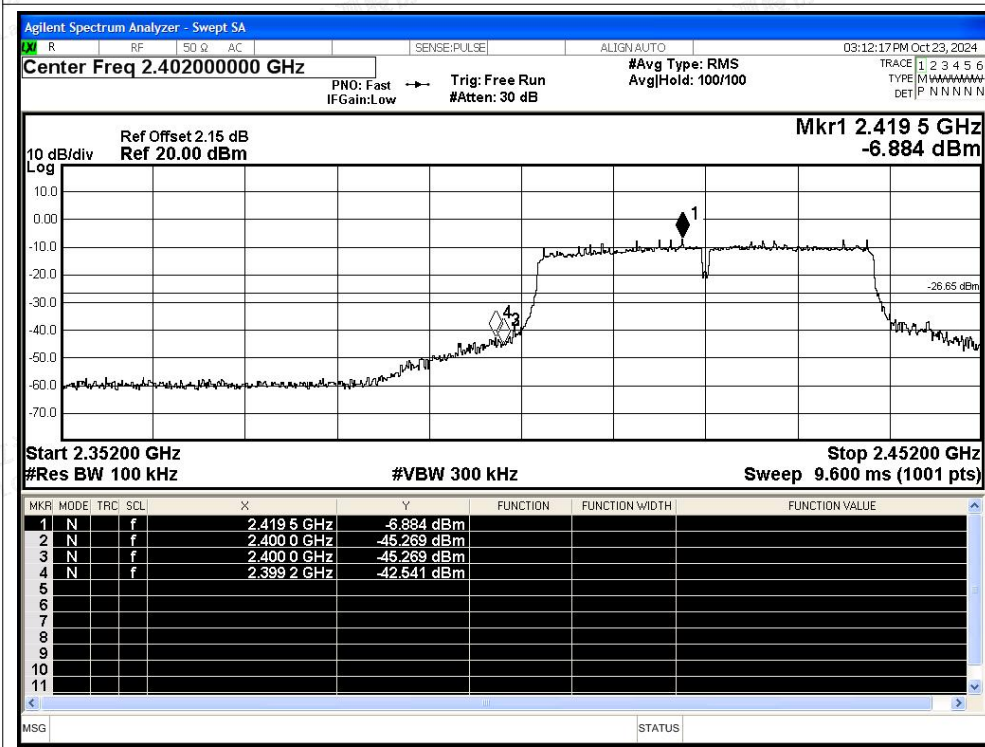




## Band Edge NVNT n40 2422MHz Ant1 Ref



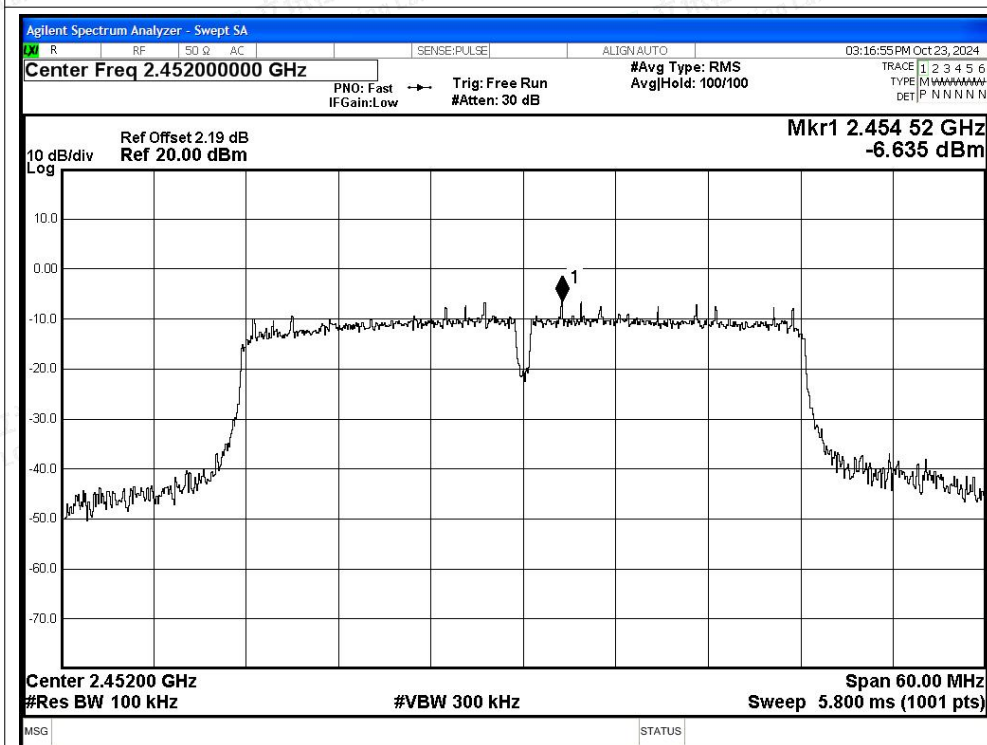
## Band Edge NVNT n40 2422MHz Ant1 Emission



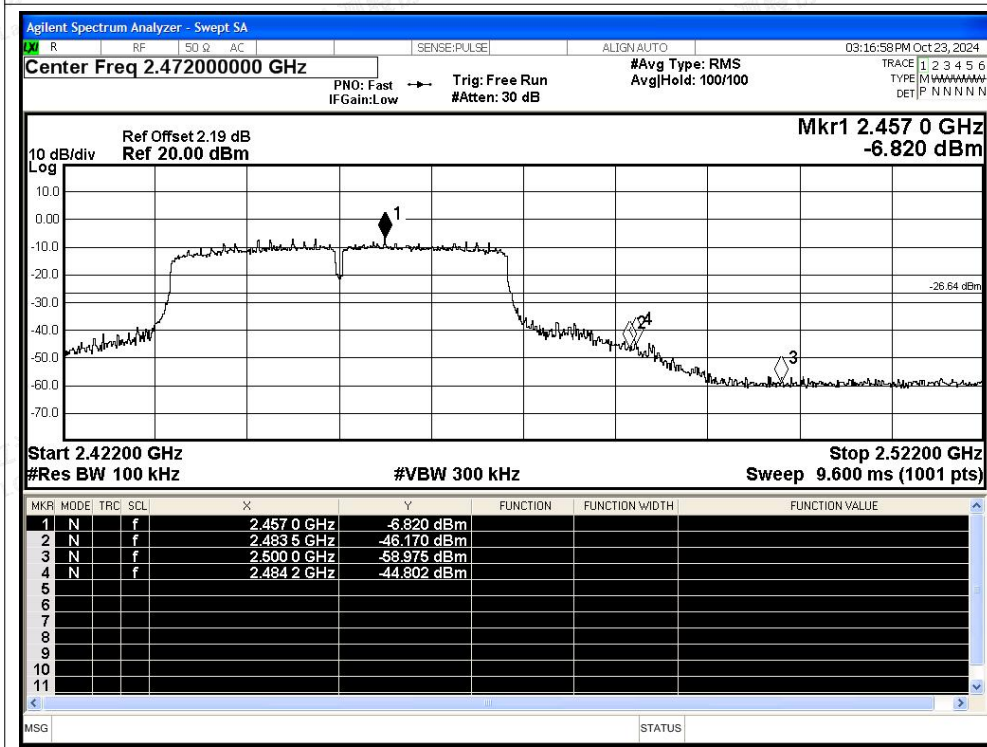




## Band Edge NVNT n40 2452MHz Ant1 Ref



## Band Edge NVNT n40 2452MHz Ant1 Emission







## C.5 Conducted RF Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -51.98          | -20         | Pass    |
| NVNT      | b    | 2437            | Ant1    | -52.37          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -52.35          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -43.68          | -20         | Pass    |
| NVNT      | g    | 2437            | Ant1    | -44.67          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -44.52          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -43.43          | -20         | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -43.82          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -43.61          | -20         | Pass    |
| NVNT      | n40  | 2422            | Ant1    | -39.18          | -20         | Pass    |
| NVNT      | n40  | 2437            | Ant1    | -39.92          | -20         | Pass    |
| NVNT      | n40  | 2452            | Ant1    | -39.06          | -20         | Pass    |



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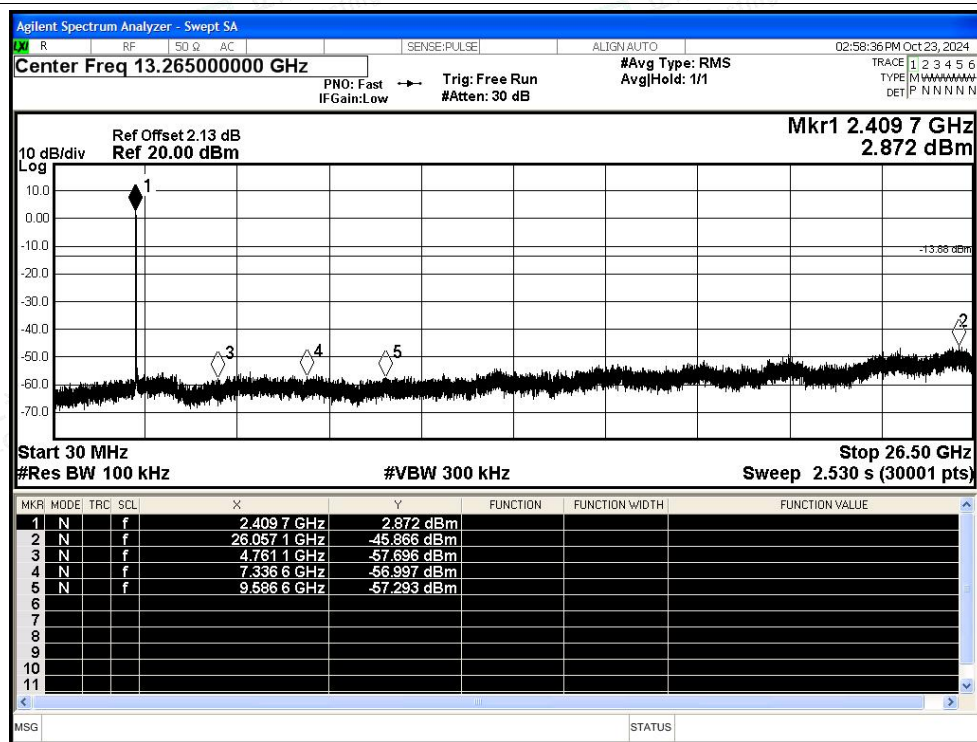


## Test Graphs

## Tx. Spurious NVNT b 2412MHz Ant1 Ref



## Tx. Spurious NVNT b 2412MHz Ant1 Emission



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