



## Appendix B

### RF Test Data for BT LE (Conducted Measurement)

Product Name: kids tablet pc

Test Model: PK81

#### Environmental Conditions

|                    |                  |
|--------------------|------------------|
| Temperature:       | 23.8 ° C         |
| Relative Humidity: | 52.1%            |
| ATM Pressure:      | 100.0 kPa        |
| Test Engineer:     | Nick Peng        |
|                    | <i>Nick Peng</i> |
| Supervised by:     | Ling Zhu         |
|                    | <i>Ling Zhu</i>  |



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## B.1 -6dB Bandwidth

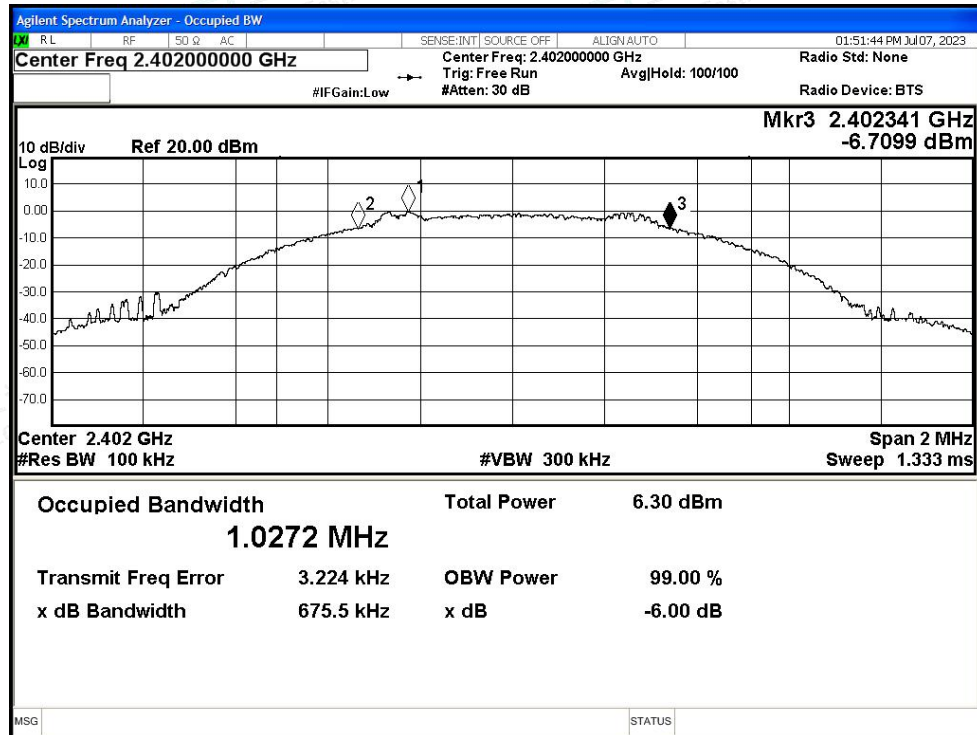
| Condition | Mode   | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|--------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | 0.675                 | 0.5                         | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | 0.646                 | 0.5                         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 0.655                 | 0.5                         | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 1.137                 | 0.5                         | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | 1.201                 | 0.5                         | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | 1.154                 | 0.5                         | Pass    |



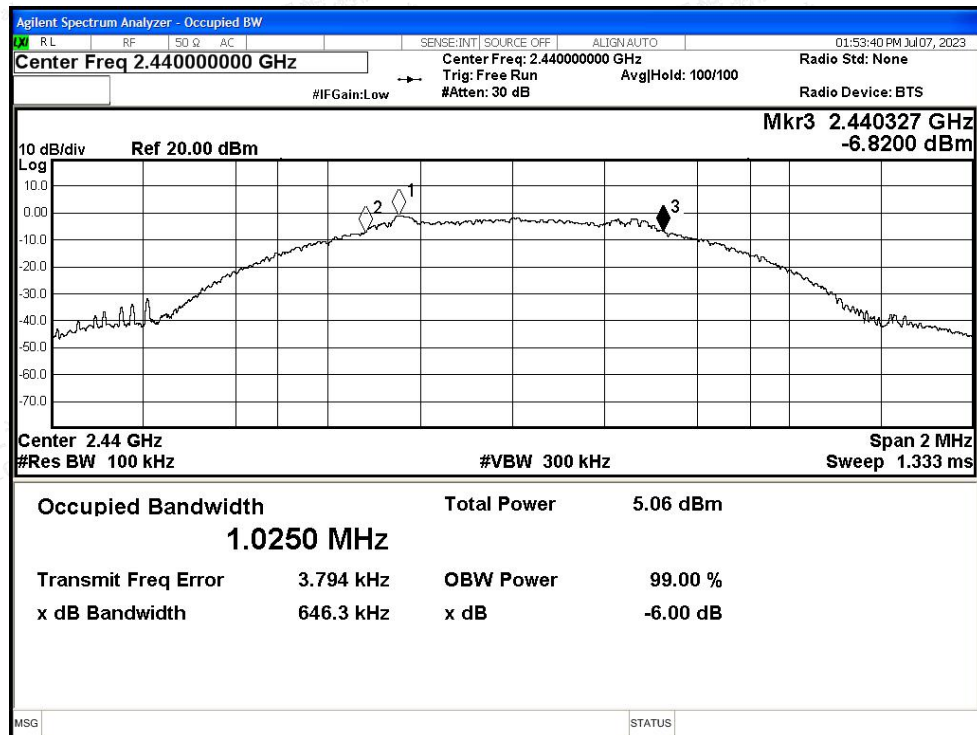


## Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



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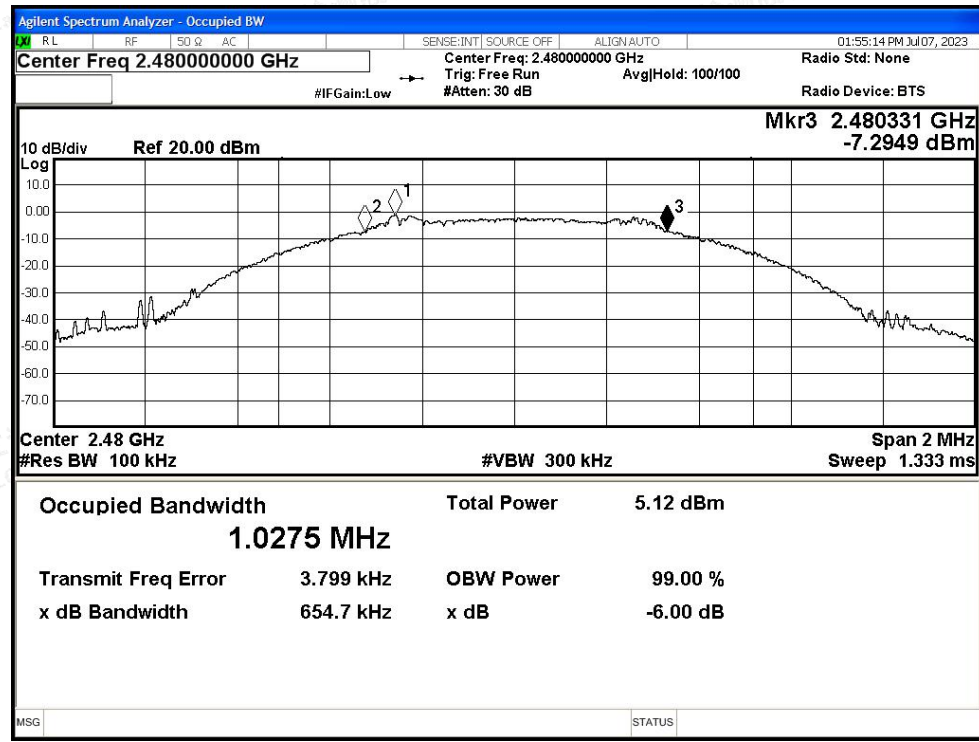
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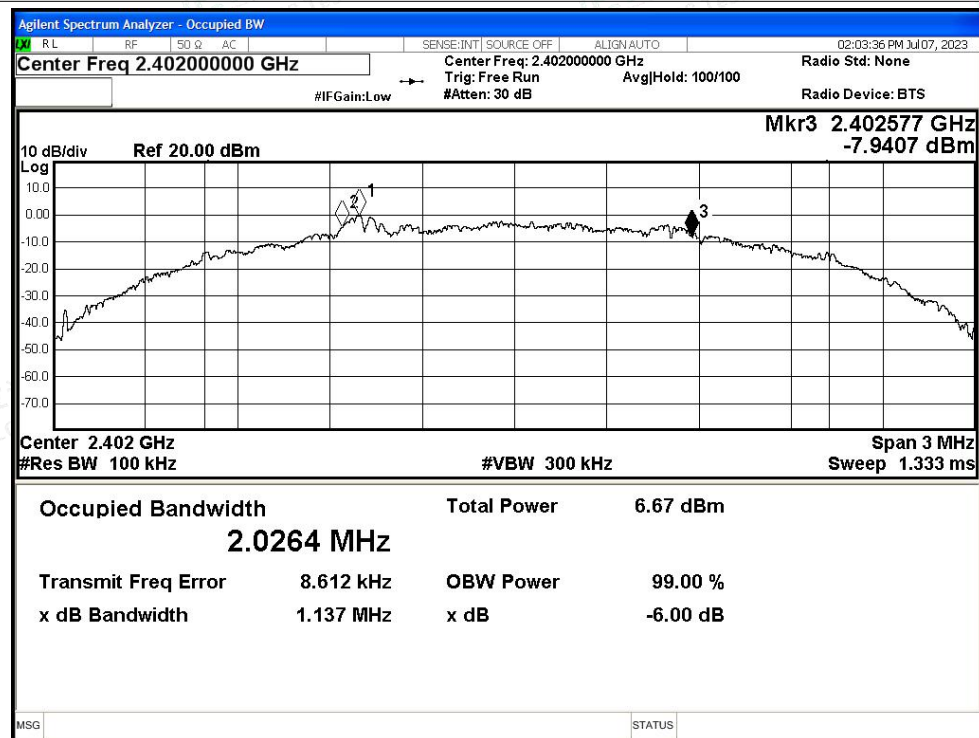


## -6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



## Test Graphs

## -6dB Bandwidth NVNT BLE 2M 2402MHz Ant1



## -6dB Bandwidth NVNT BLE 2M 2440MHz Ant1

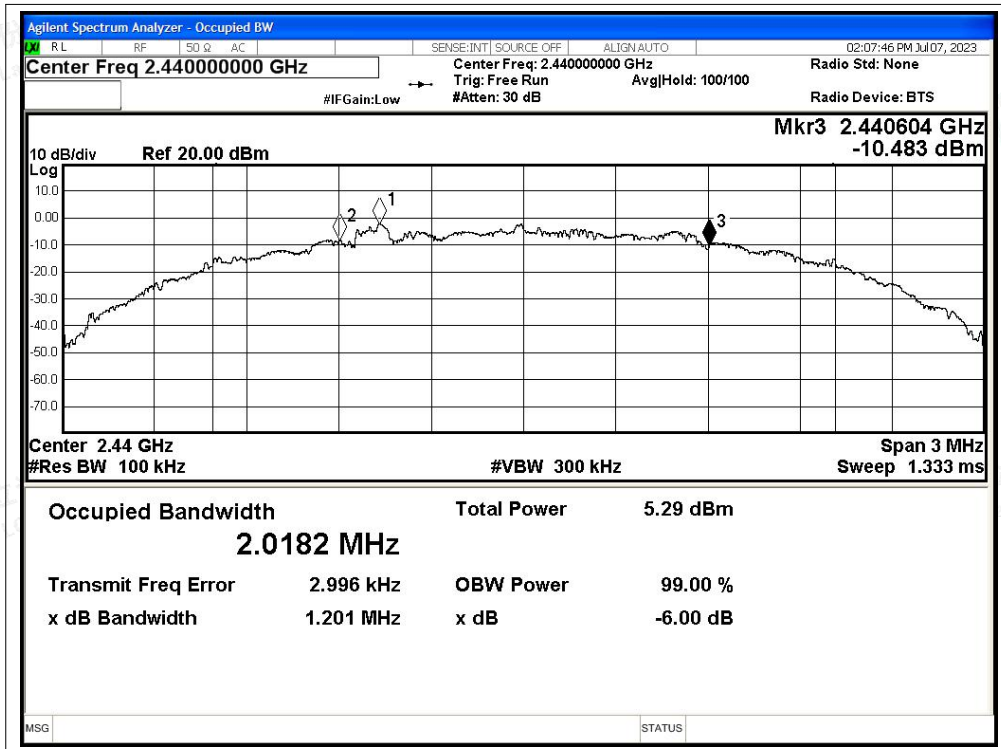


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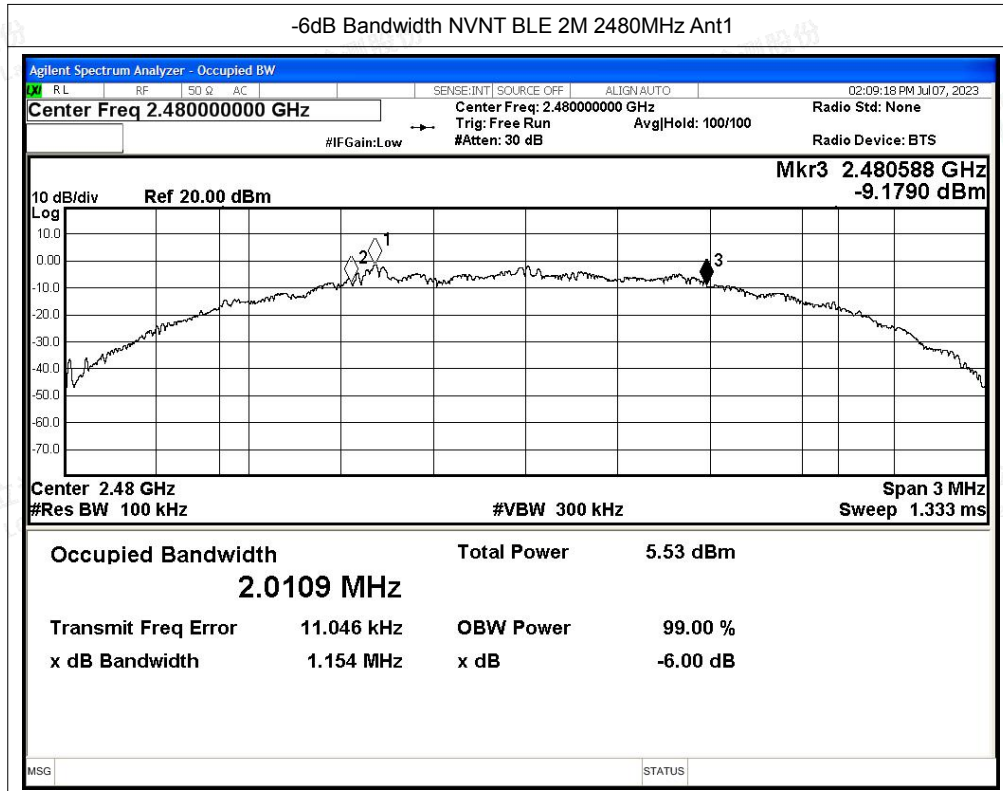


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## B.2 Maximum Conducted Output Power

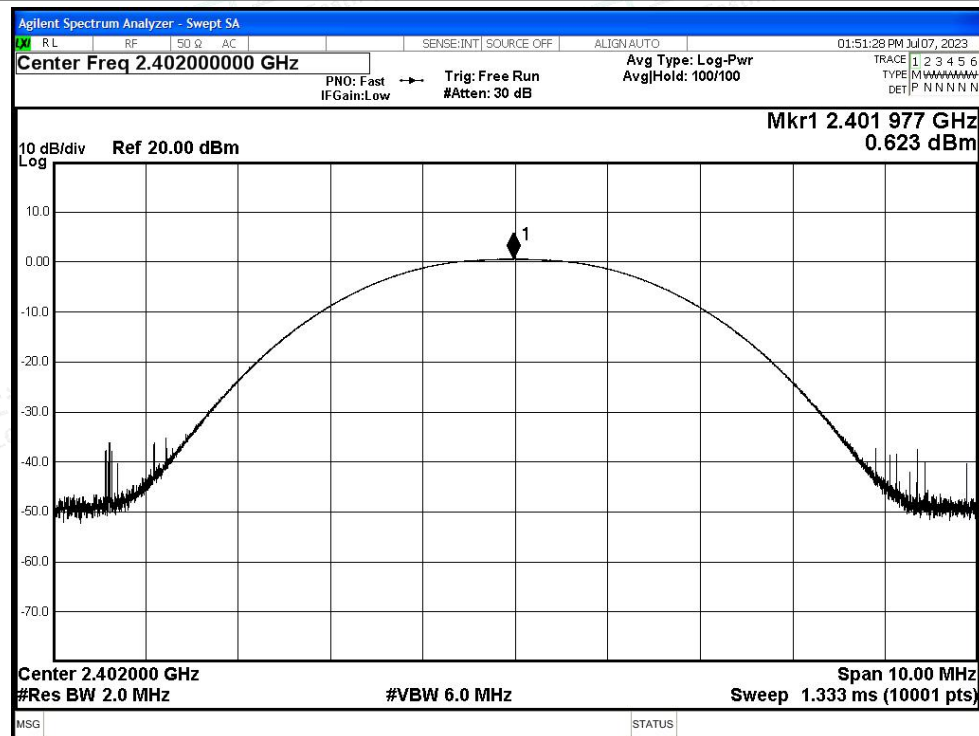
| Condition | Mode   | Frequency (MHz) | Antenna | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|--------|-----------------|---------|-------------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | 0.62              | 30          | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | -0.63             | 30          | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -0.56             | 30          | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 0.42              | 30          | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | -0.87             | 30          | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | -0.8              | 30          | Pass    |



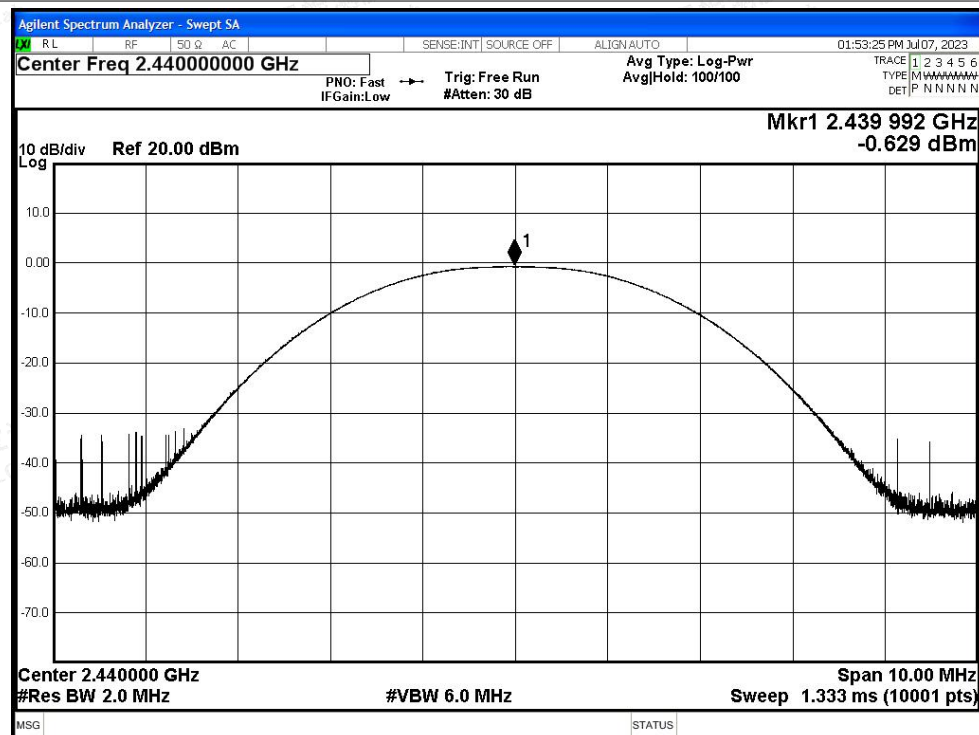


## Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1

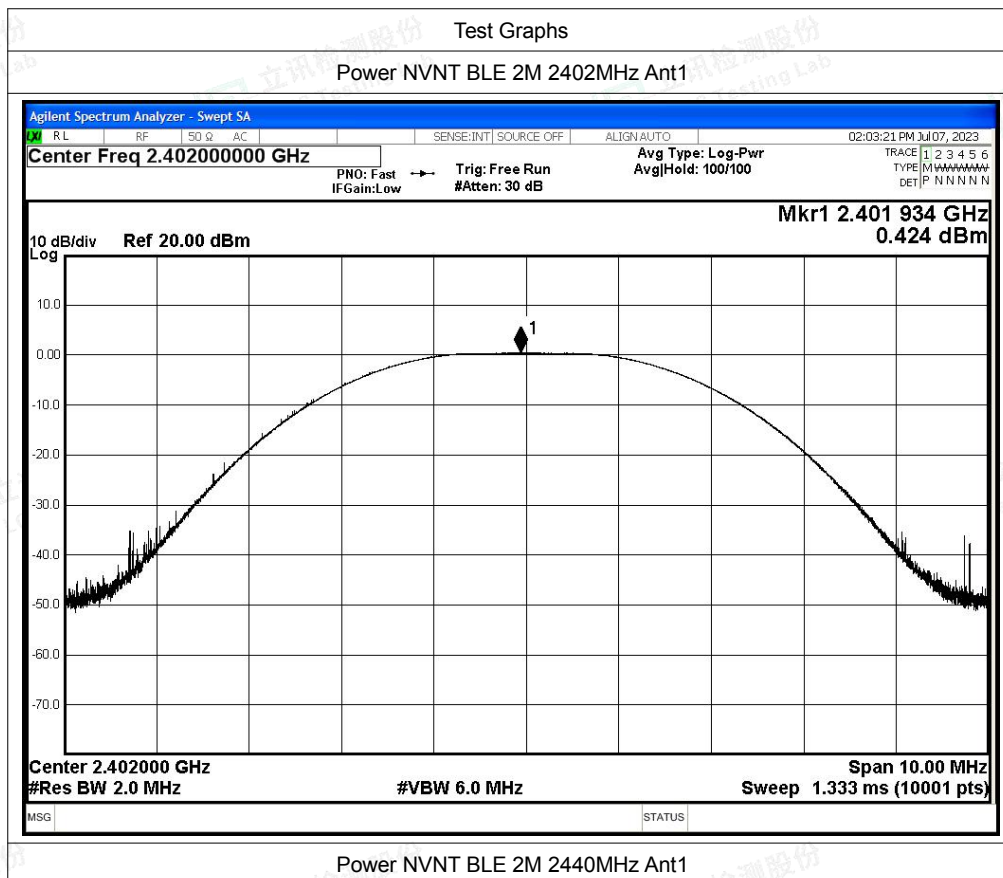
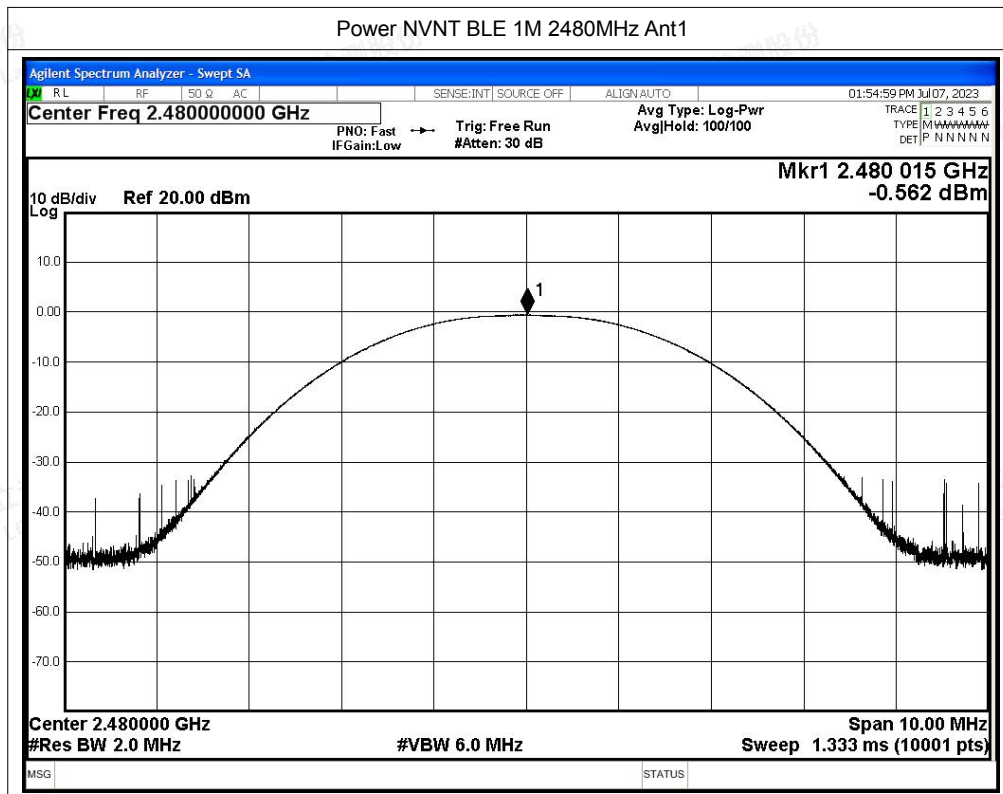


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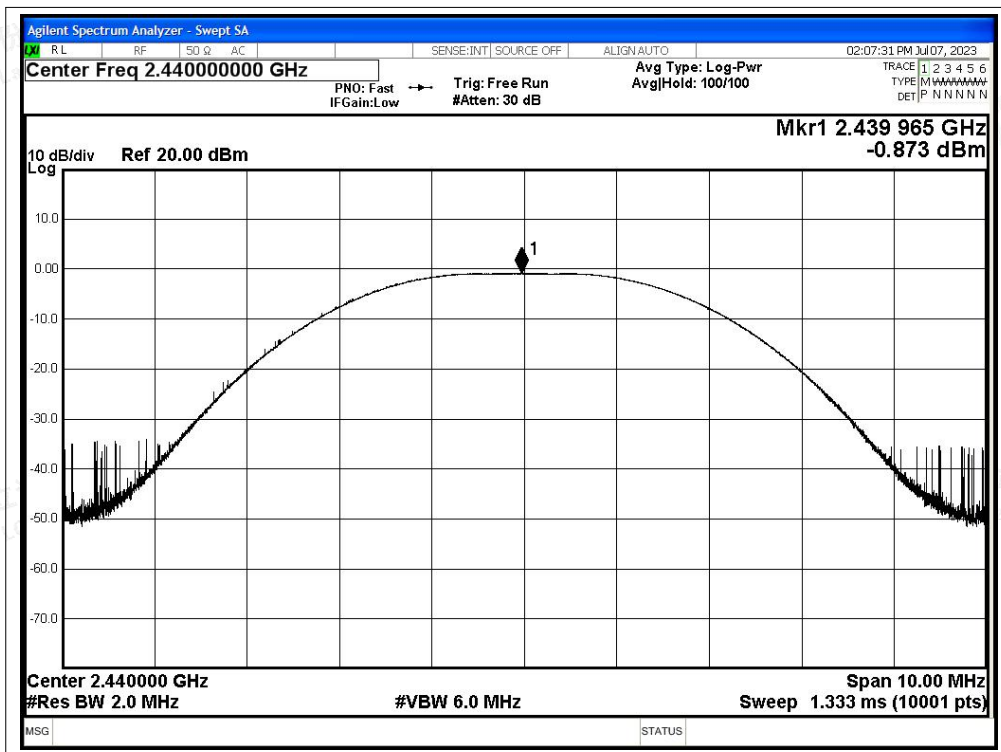


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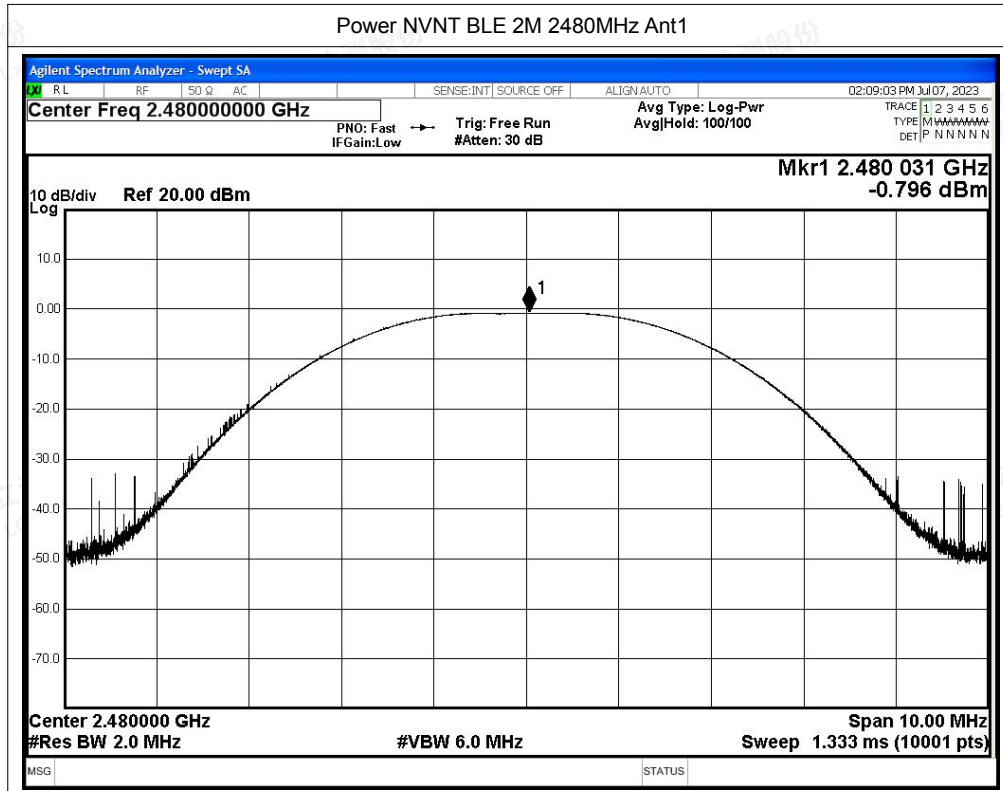


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### B.3 Maximum Power Spectral Density Level

| Condition | Mode   | Frequency (MHz) | Antenna | Total PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|--------|-----------------|---------|----------------------|------------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -16                  | 8                | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | -17.17               | 8                | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -17.09               | 8                | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | -19.33               | 8                | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | -20.71               | 8                | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | -20.46               | 8                | Pass    |



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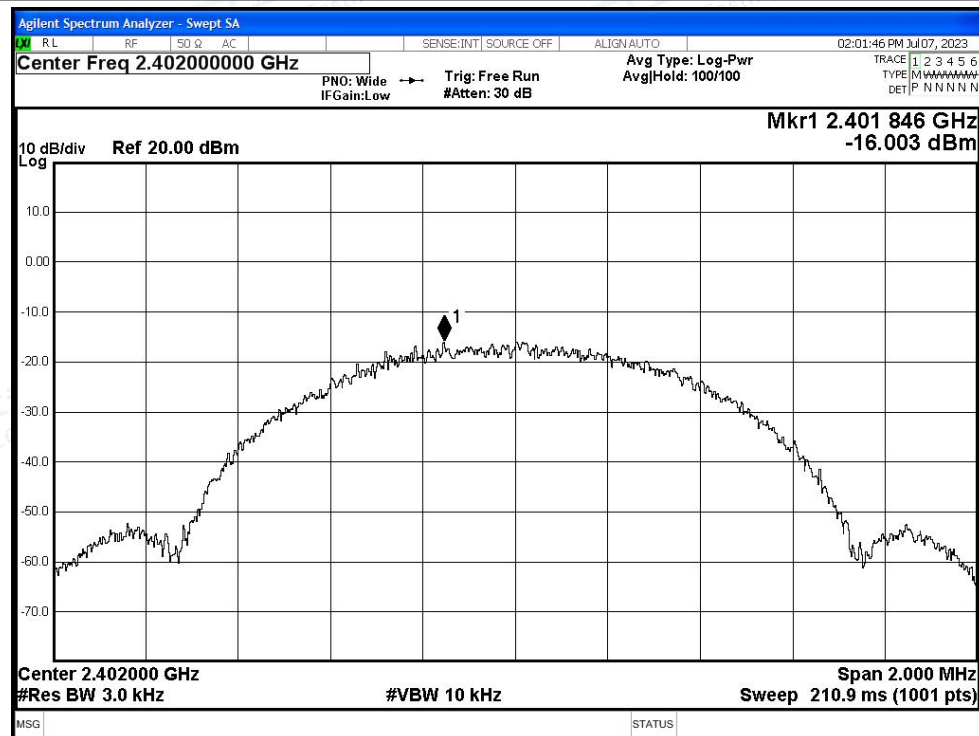
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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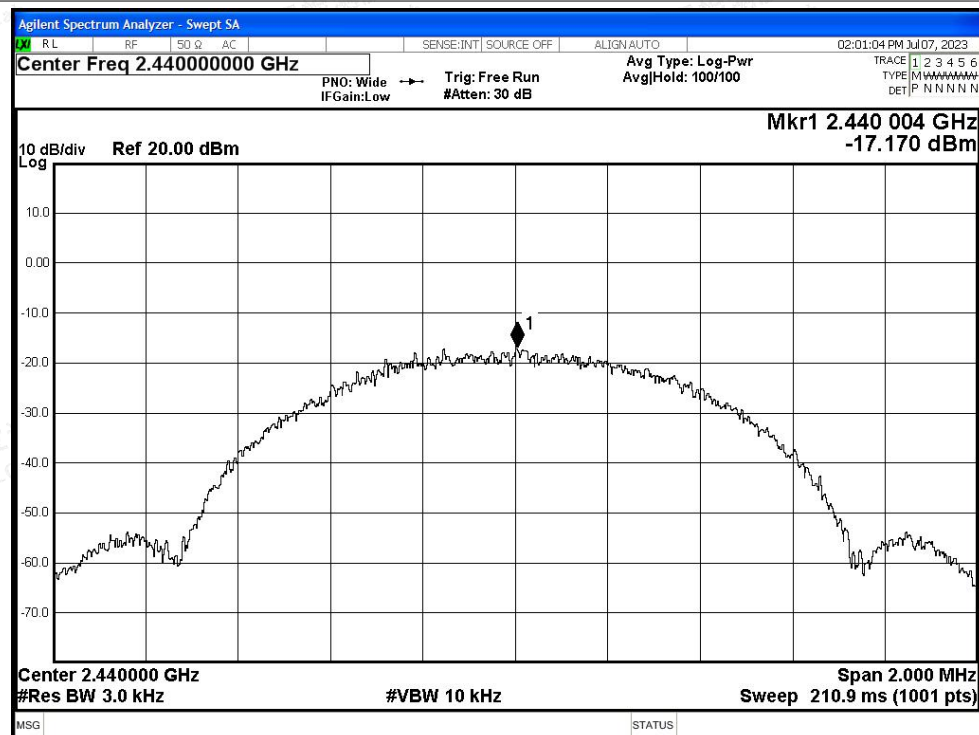


## Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

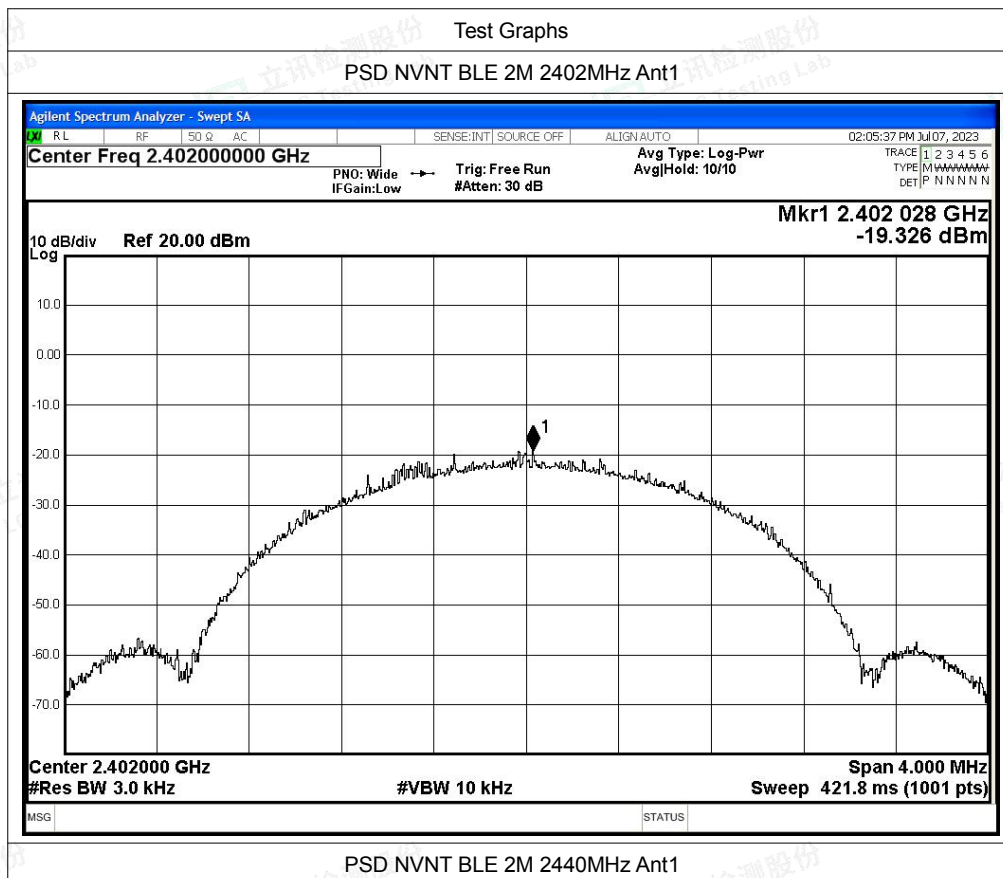
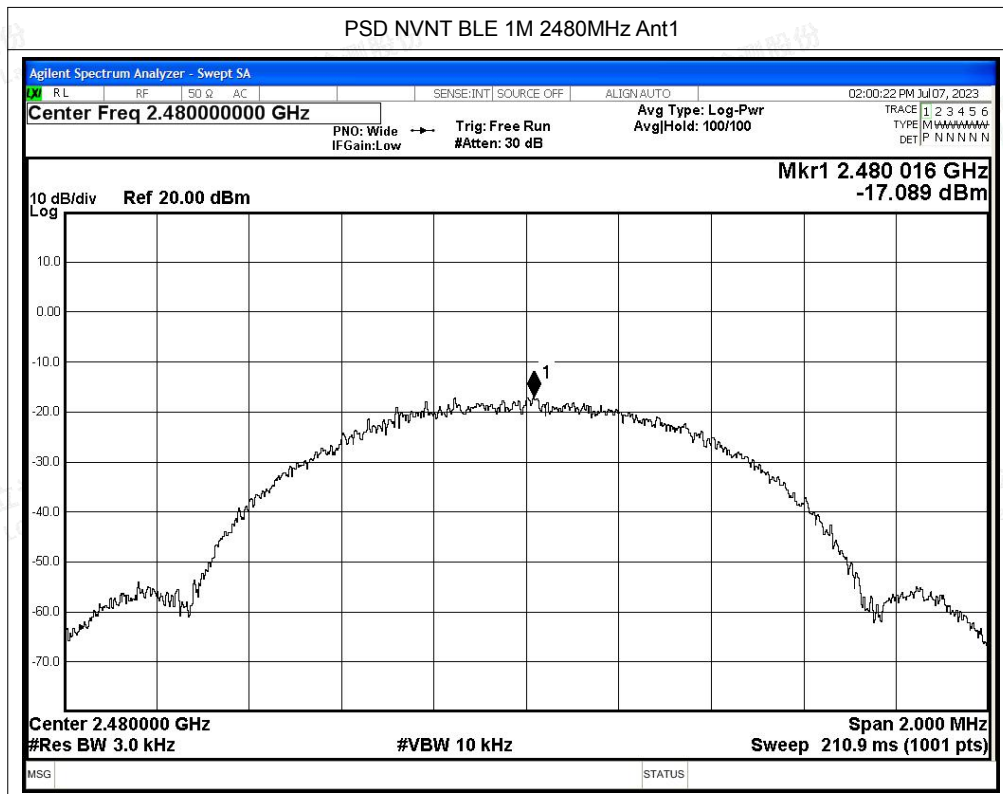


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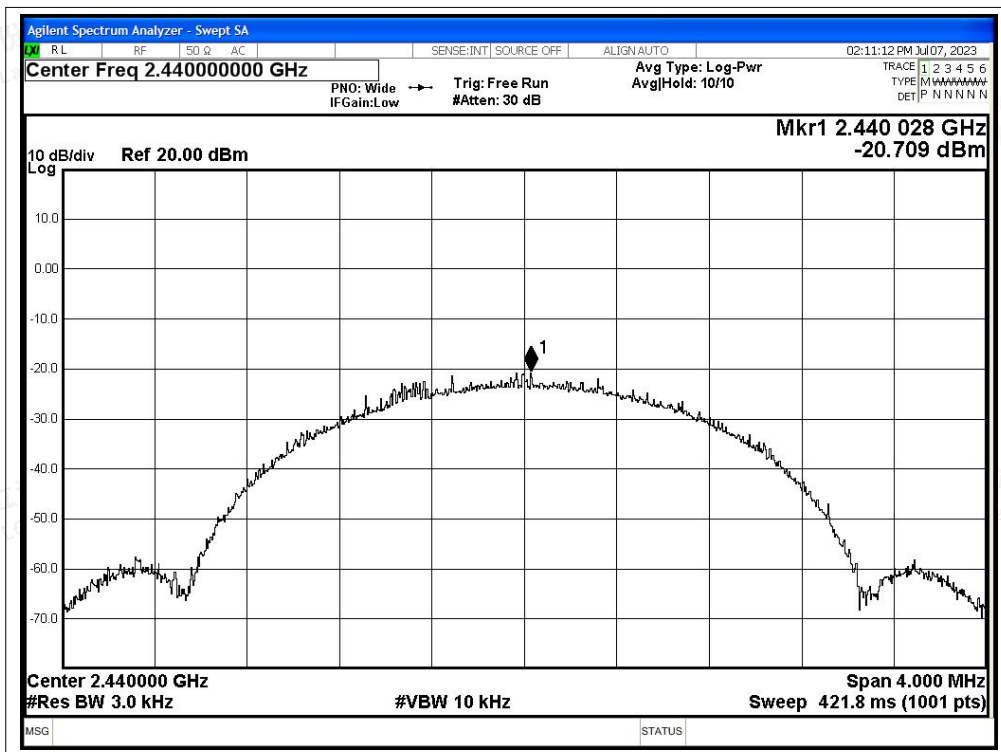


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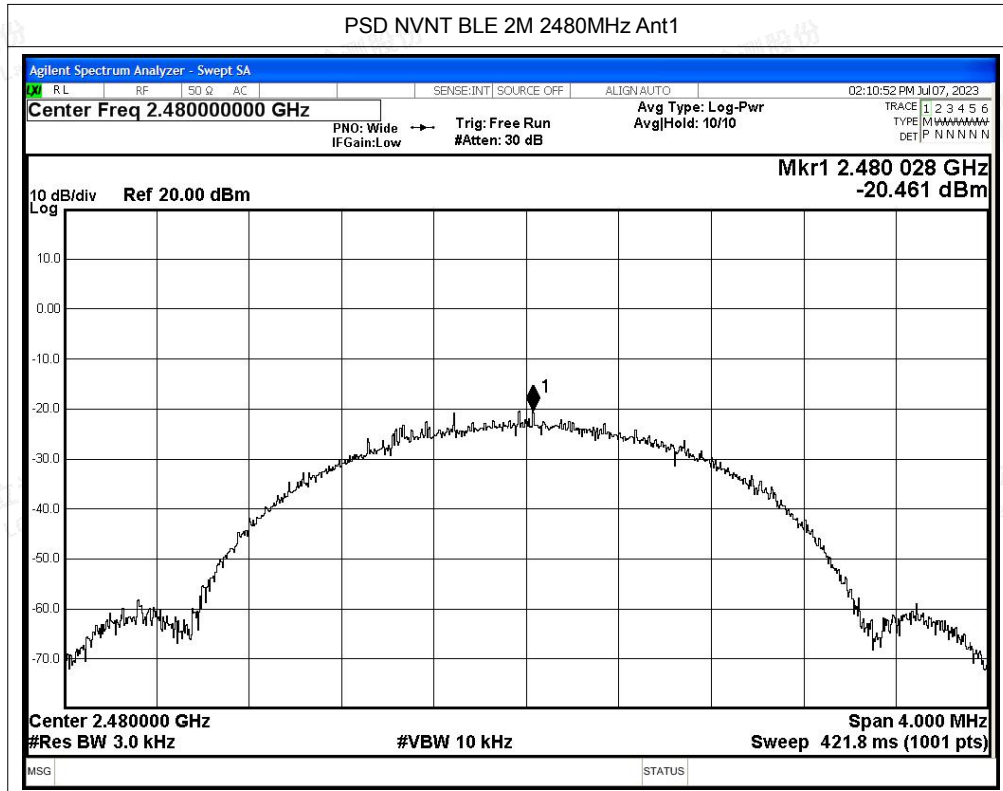


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## B.4 Band Edge

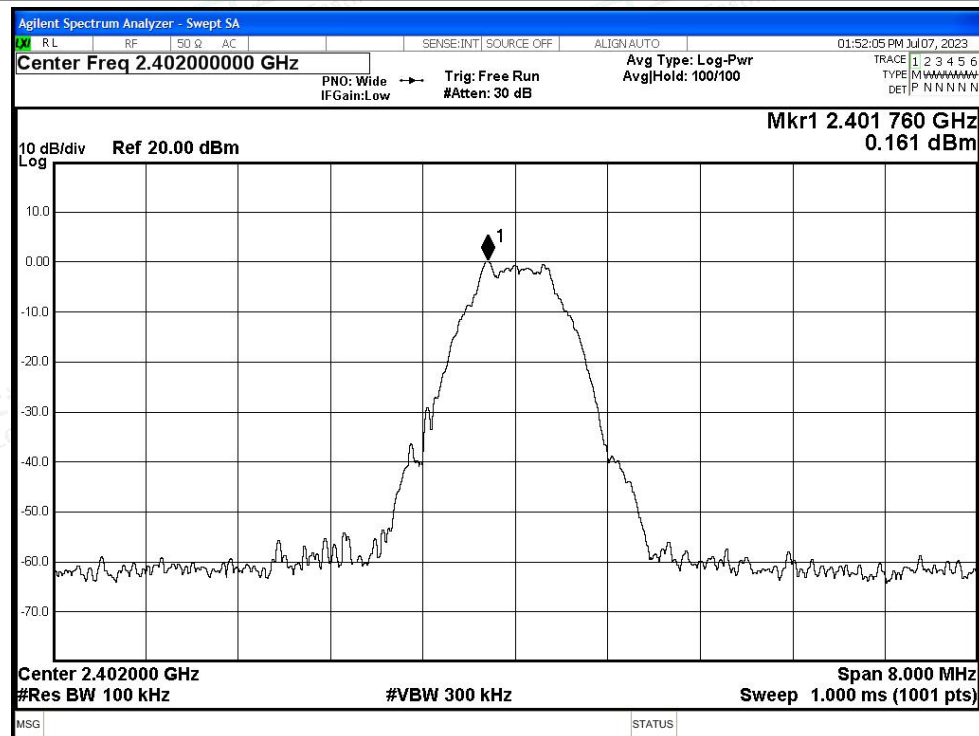
| Condition | Mode   | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -57.99          | -20         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -57.03          | -20         | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | -47.51          | -20         | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | -54.94          | -20         | Pass    |



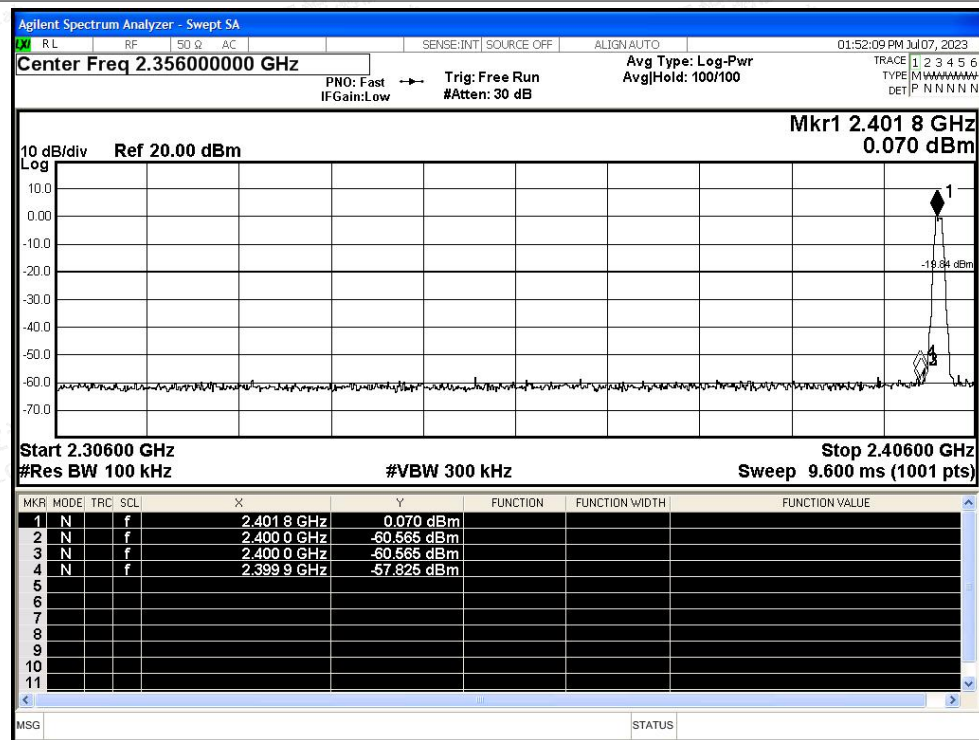


## Test Graphs

## Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



## Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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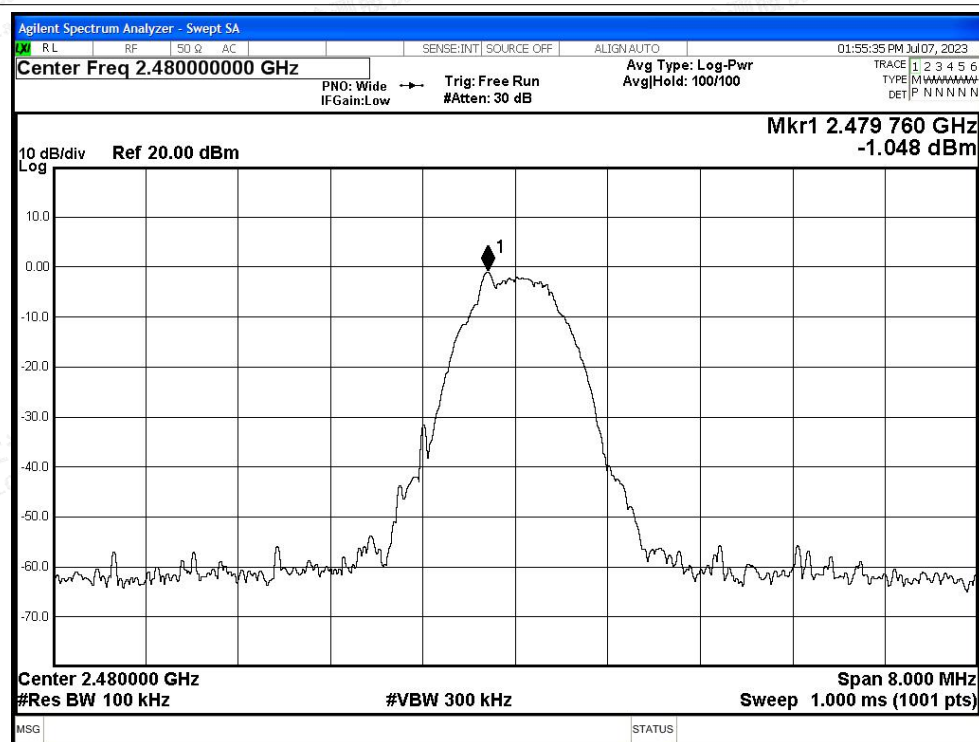
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

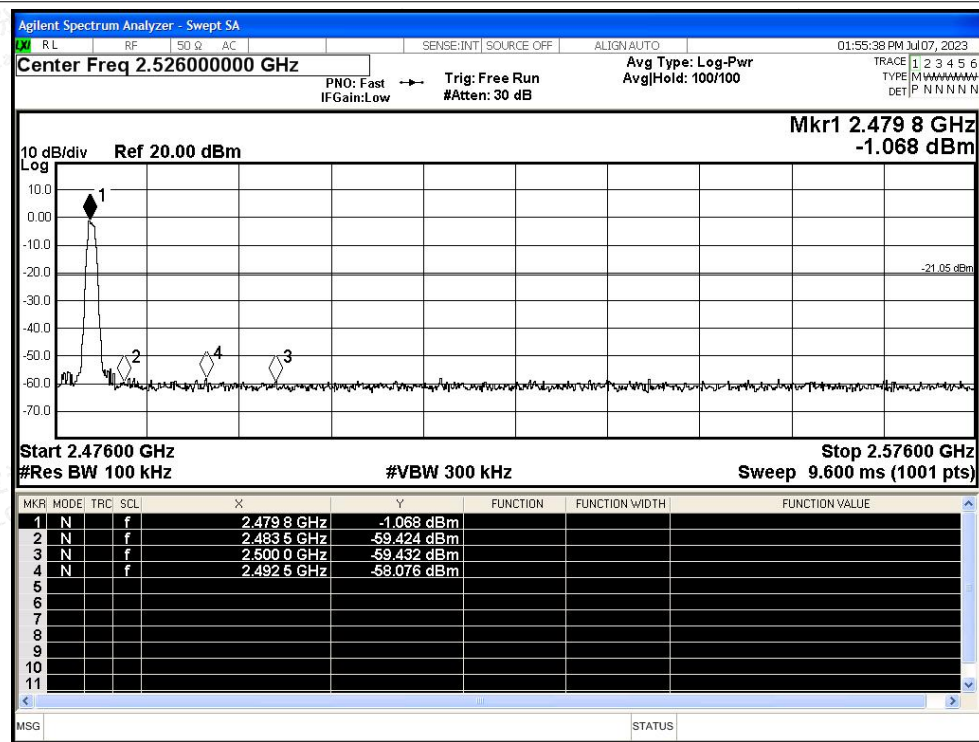
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## Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



## Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



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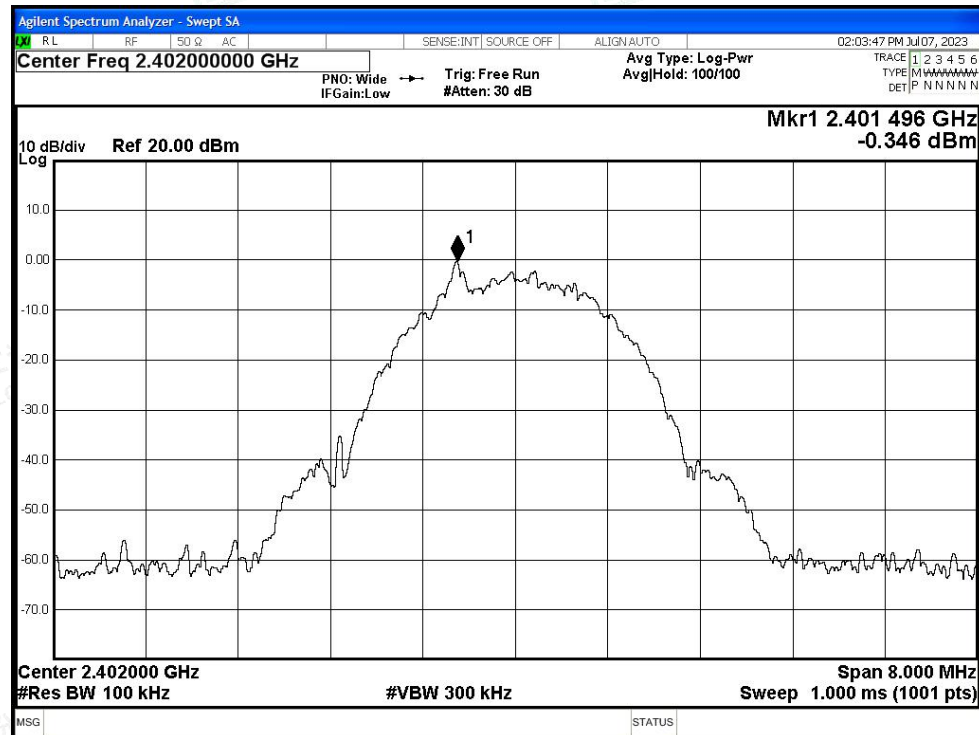
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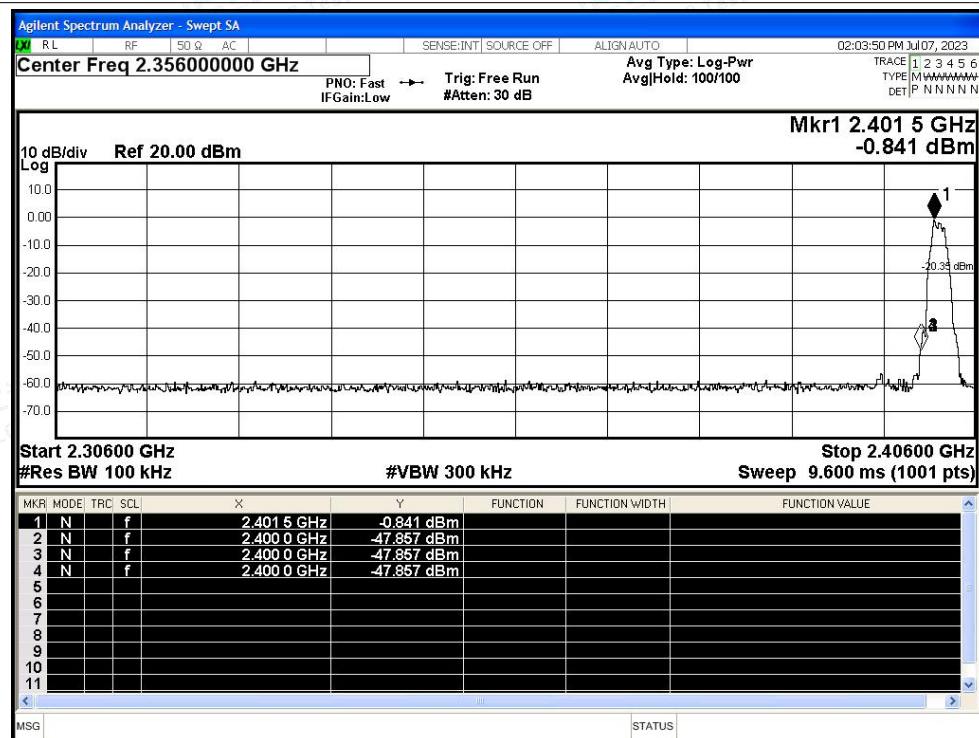


## Test Graphs

## Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



## Band Edge NVNT BLE 2M 2402MHz Ant1 Emission

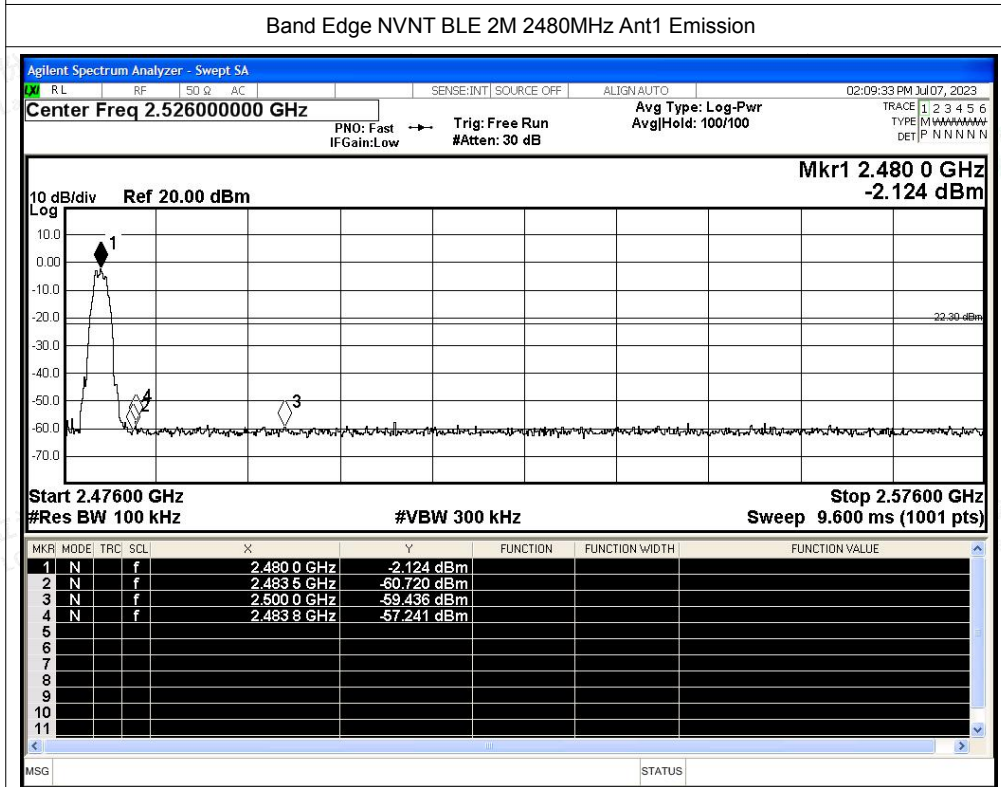
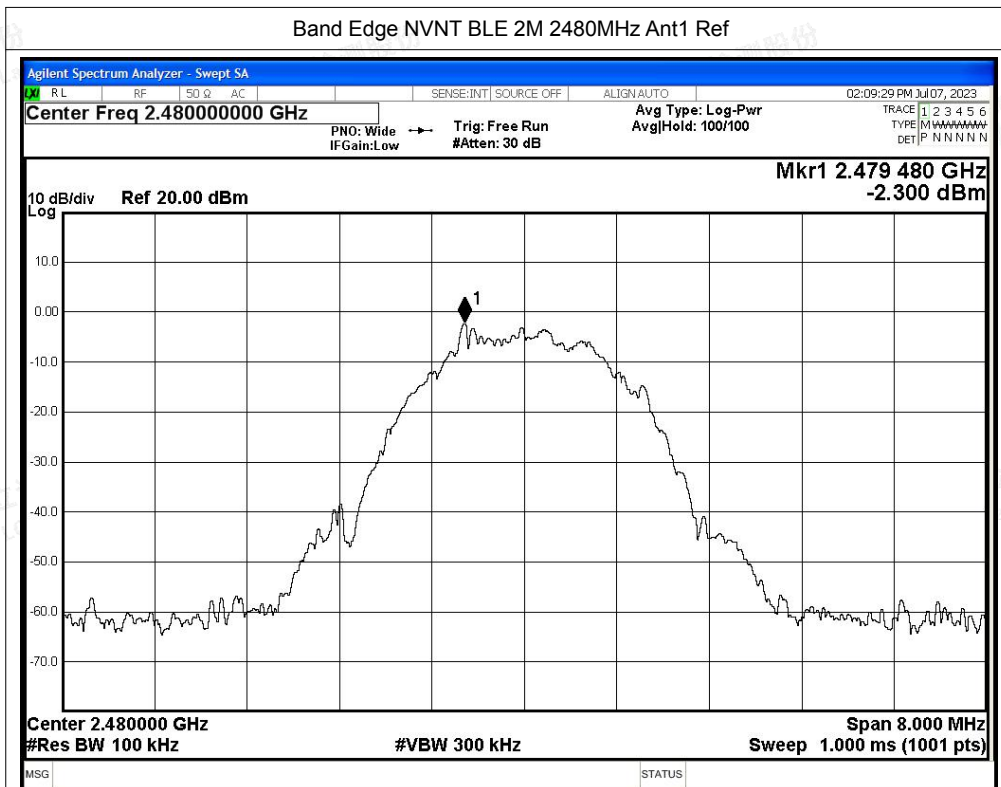


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## B.5 Conducted RF Spurious Emission

| Condition | Mode   | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -46.82          | -20         | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | -49.39          | -20         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -42.53          | -20         | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | -44.87          | -20         | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | -50.42          | -20         | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | -54.93          | -20         | Pass    |



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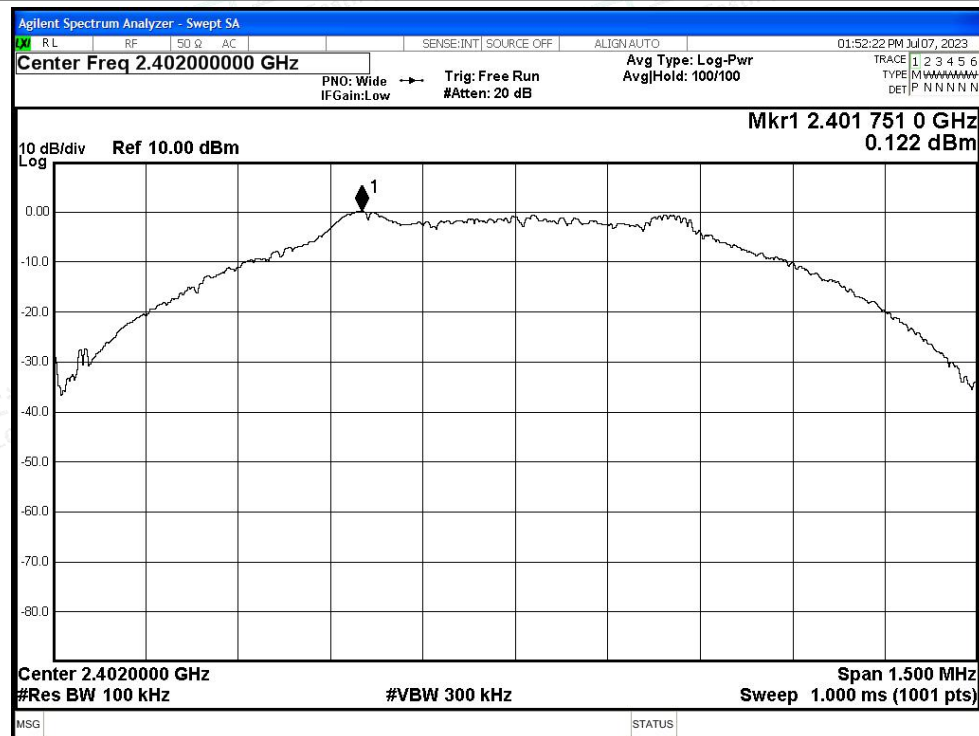
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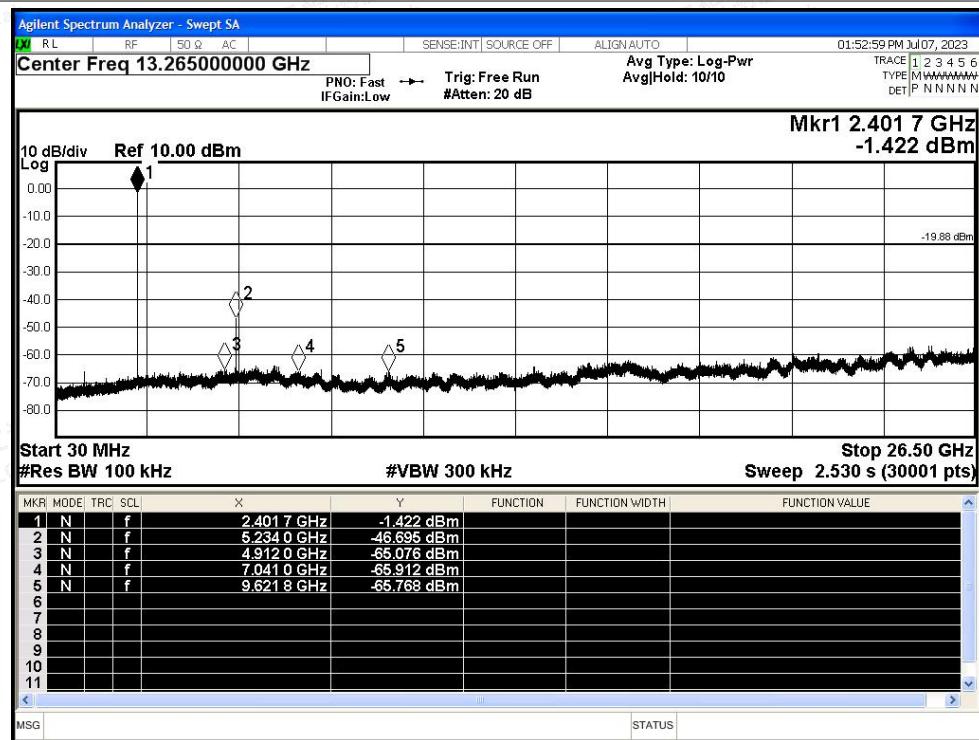


## Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



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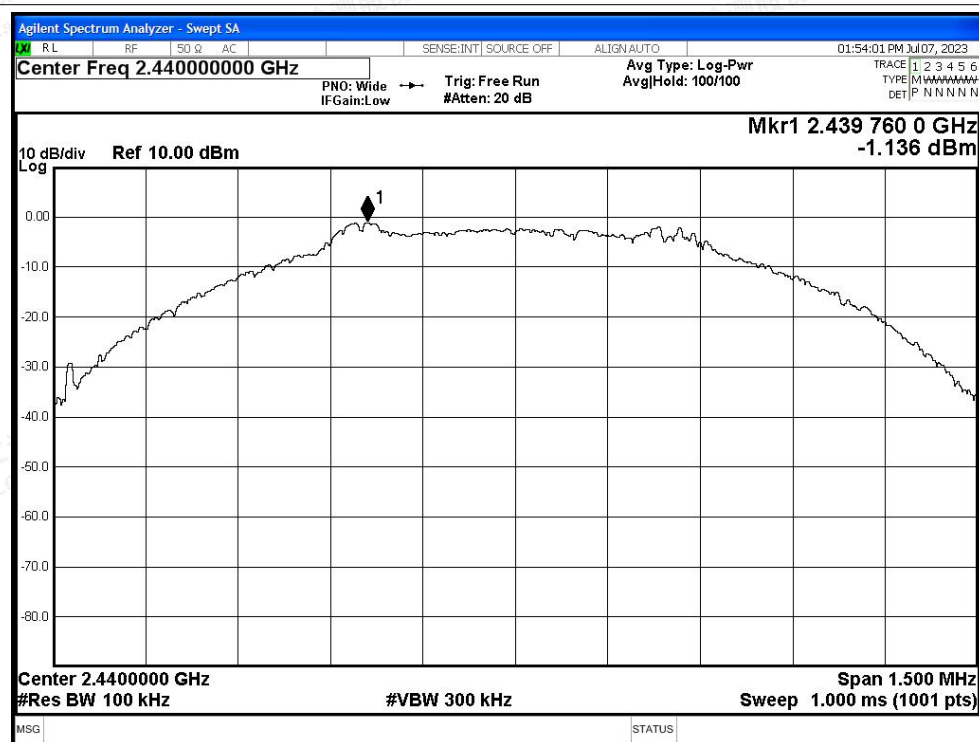
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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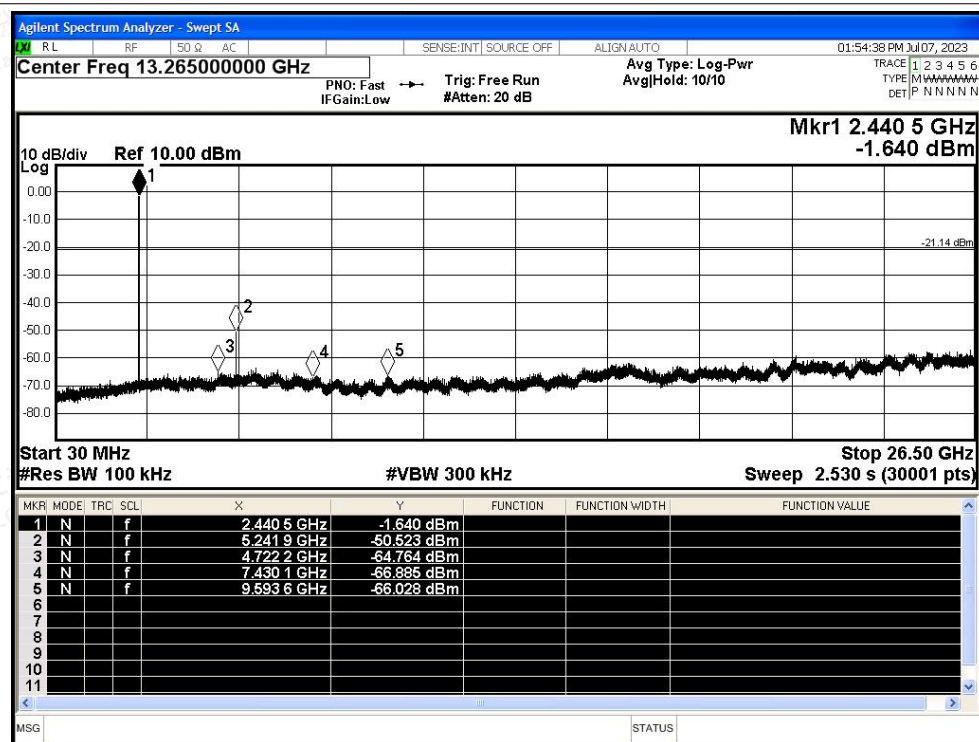
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## Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



## Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



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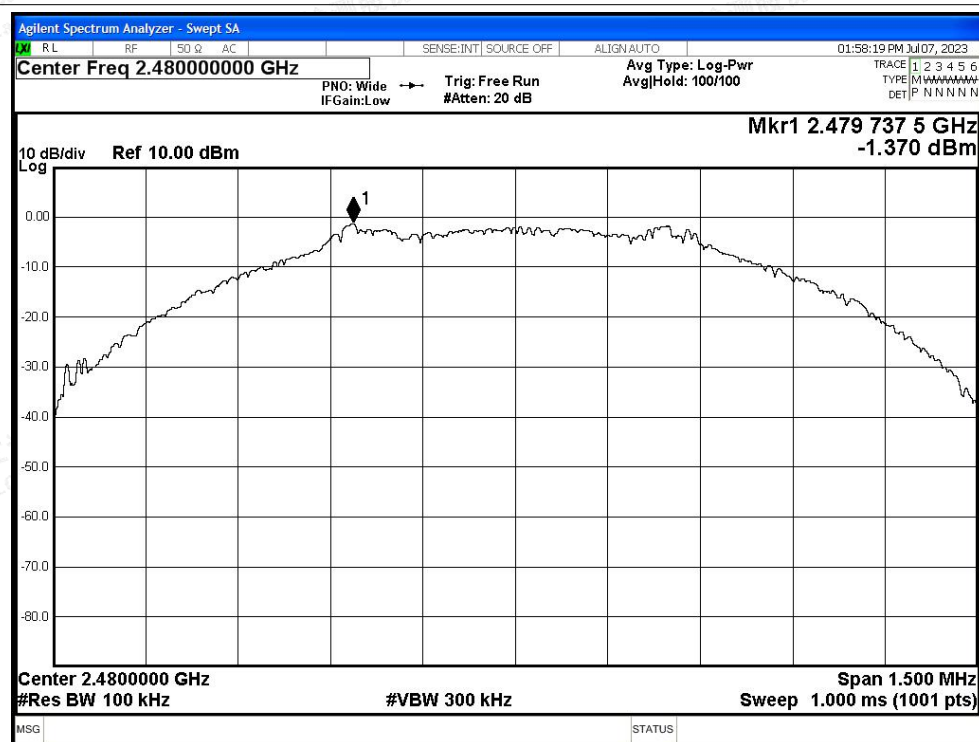
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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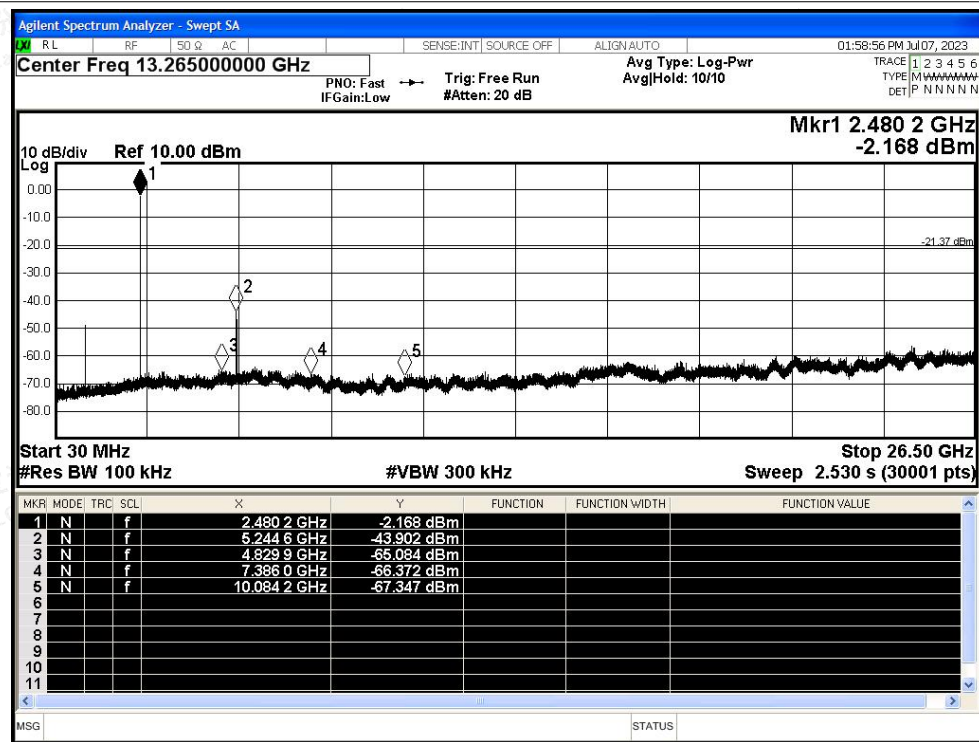
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## Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



## Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



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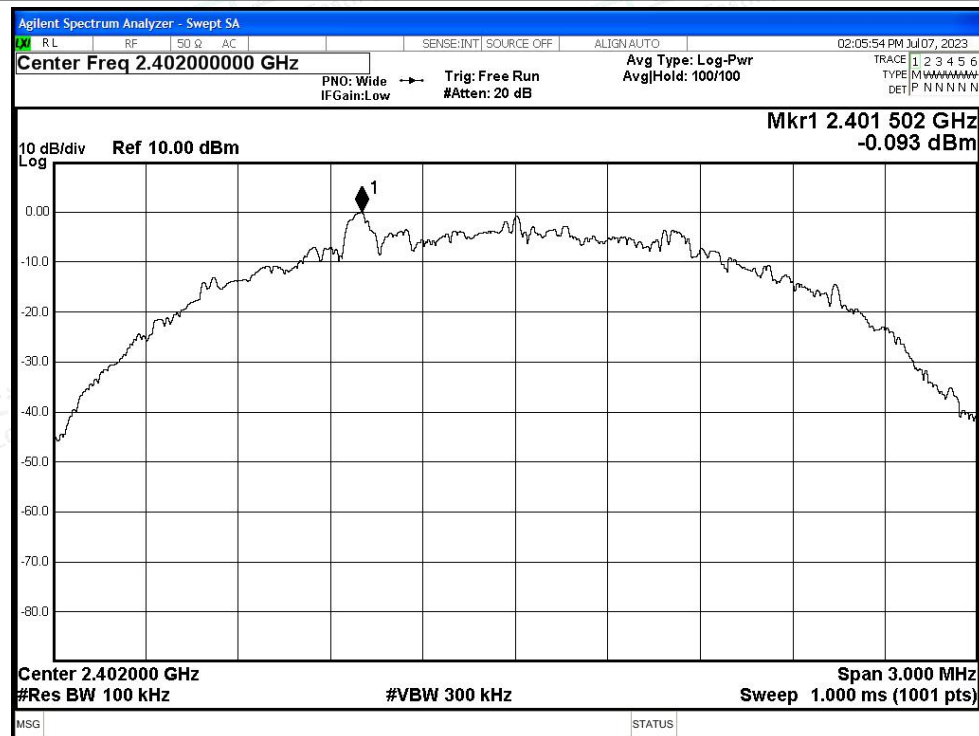
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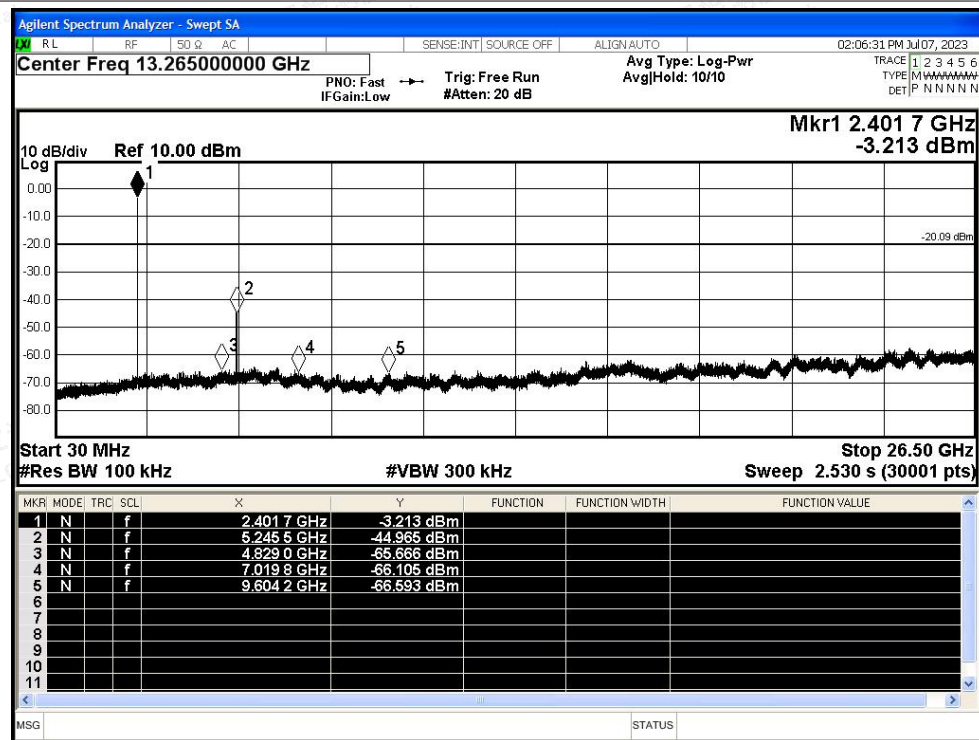


## Test Graphs

Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission



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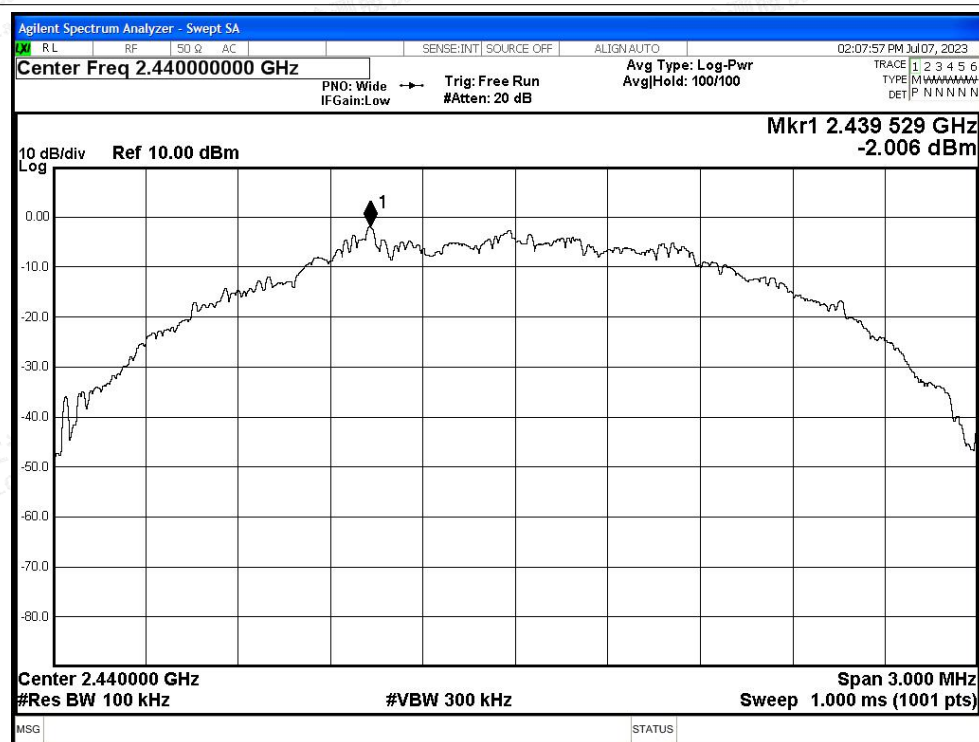
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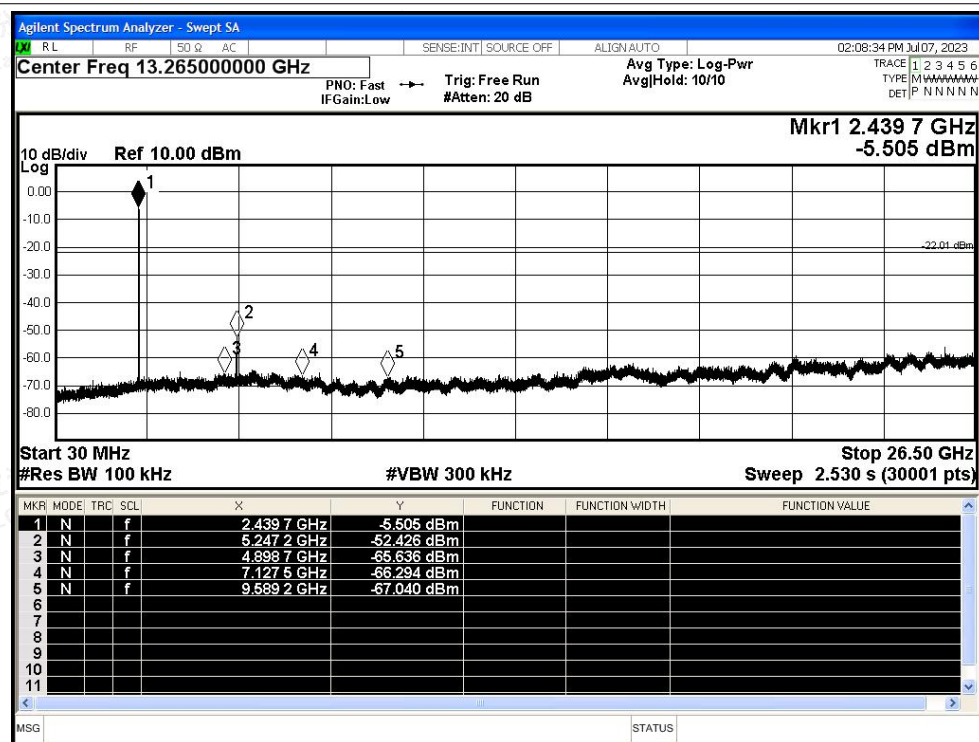
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## Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref



## Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission



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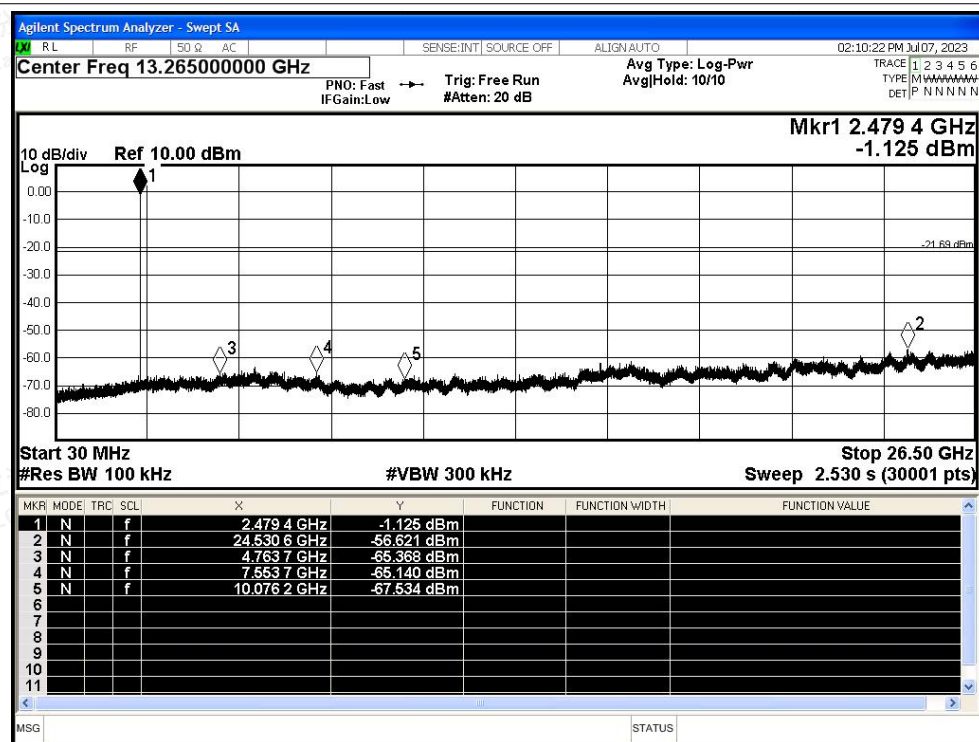
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## Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



## Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission



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## B.6 Duty Cycle

| Condition | Mode   | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|--------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | BLE 1M | 2402            | Ant1    | 99.54          | 0                      | 0.61      |
| NVNT      | BLE 1M | 2440            | Ant1    | 99.51          | 0                      | 0.61      |
| NVNT      | BLE 1M | 2480            | Ant1    | 87.39          | 0.59                   | 0.61      |
| NVNT      | BLE 2M | 2402            | Ant1    | 98.1           | 0                      | 1.21      |
| NVNT      | BLE 2M | 2440            | Ant1    | 0.12           | 29.21                  | 2000      |
| NVNT      | BLE 2M | 2480            | Ant1    | 98.15          | 0                      | 1.21      |



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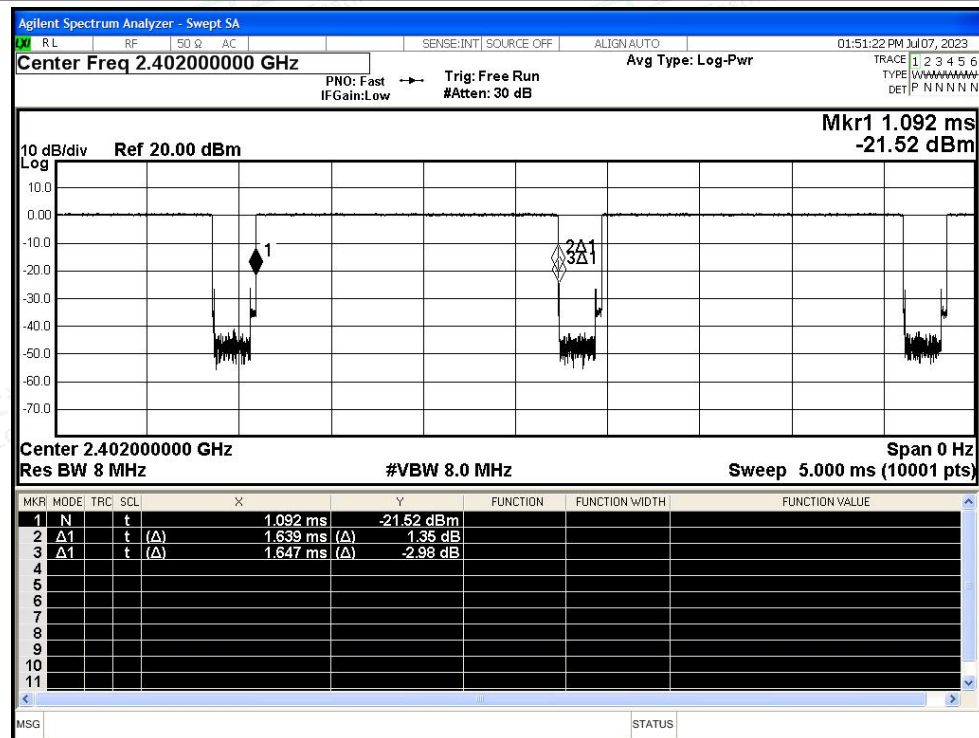
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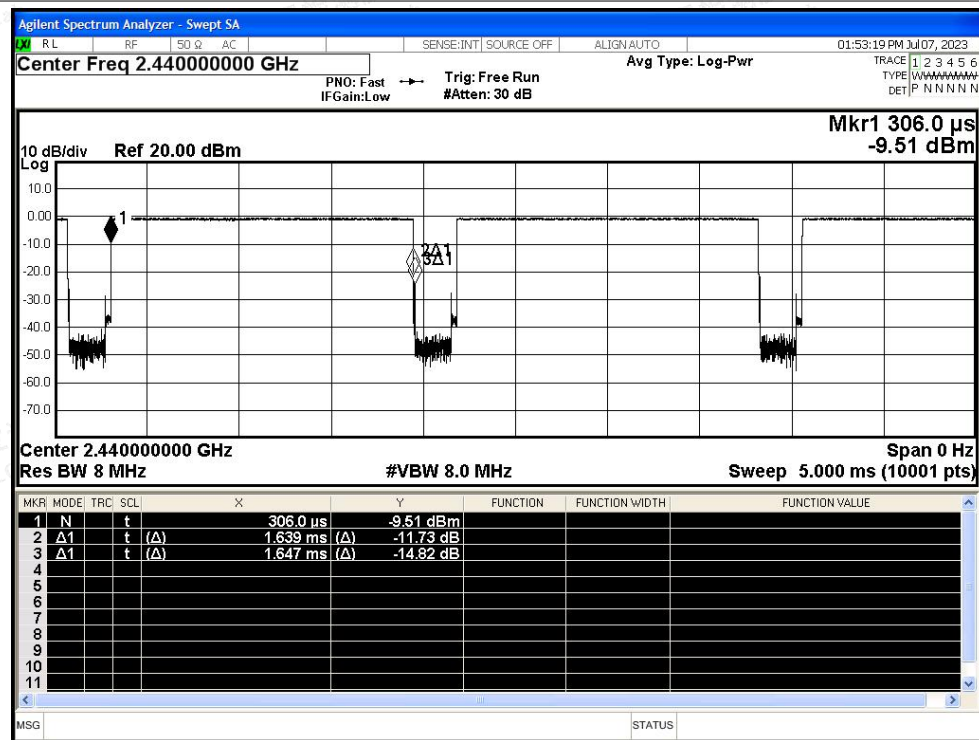


## Test Graphs

## Duty Cycle NVNT BLE 1M 2402MHz Ant1



## Duty Cycle NVNT BLE 1M 2440MHz Ant1



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