



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: MINI PC

Test Model: B00JP3

Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 23.5℃     |
| Relative Humidity: | 52.2%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Bill Zhu  |
| Supervised by:     | Li Huan   |





B.1 -6dB Bandwidth

| Condition | Mode   | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|--------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | 0.71                  | 0.5                         | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | 0.703                 | 0.5                         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 0.71                  | 0.5                         | Pass    |

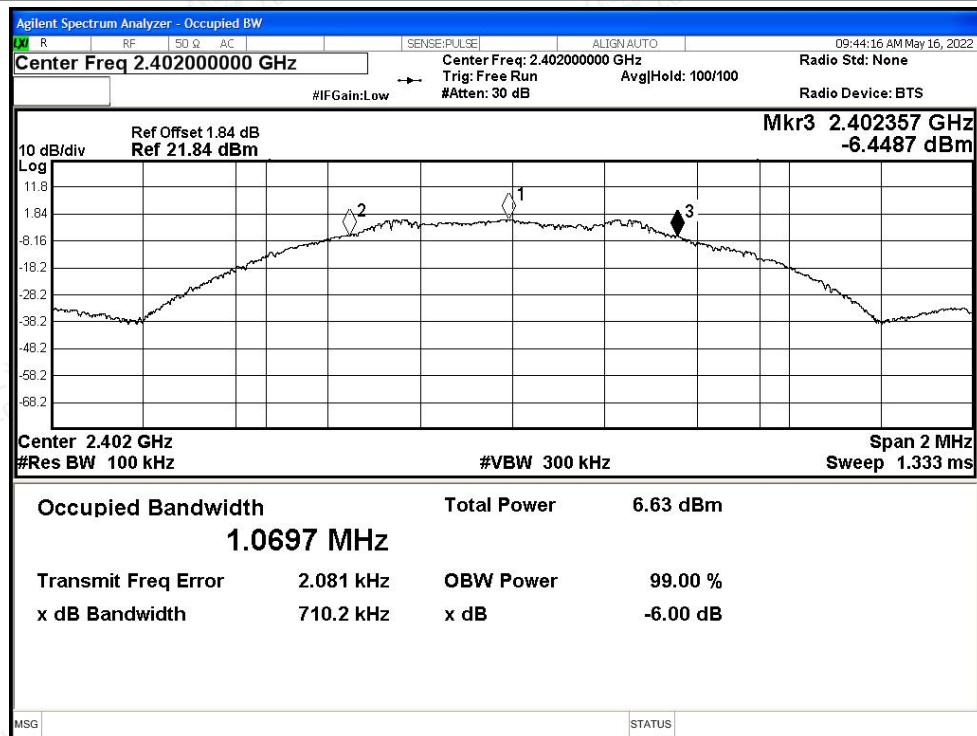


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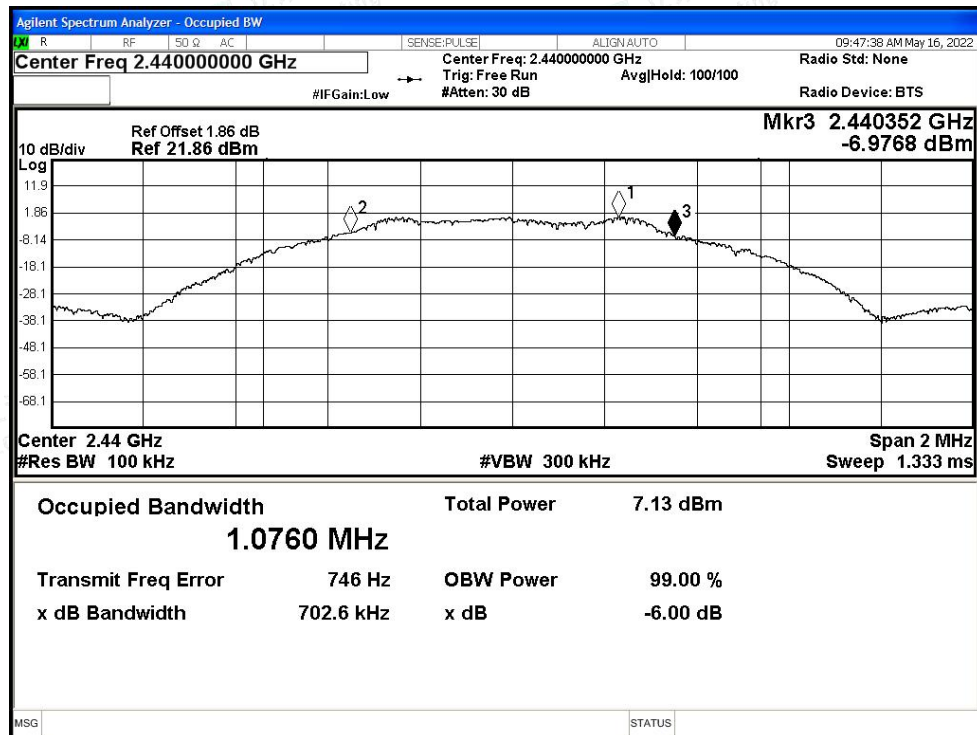


## Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

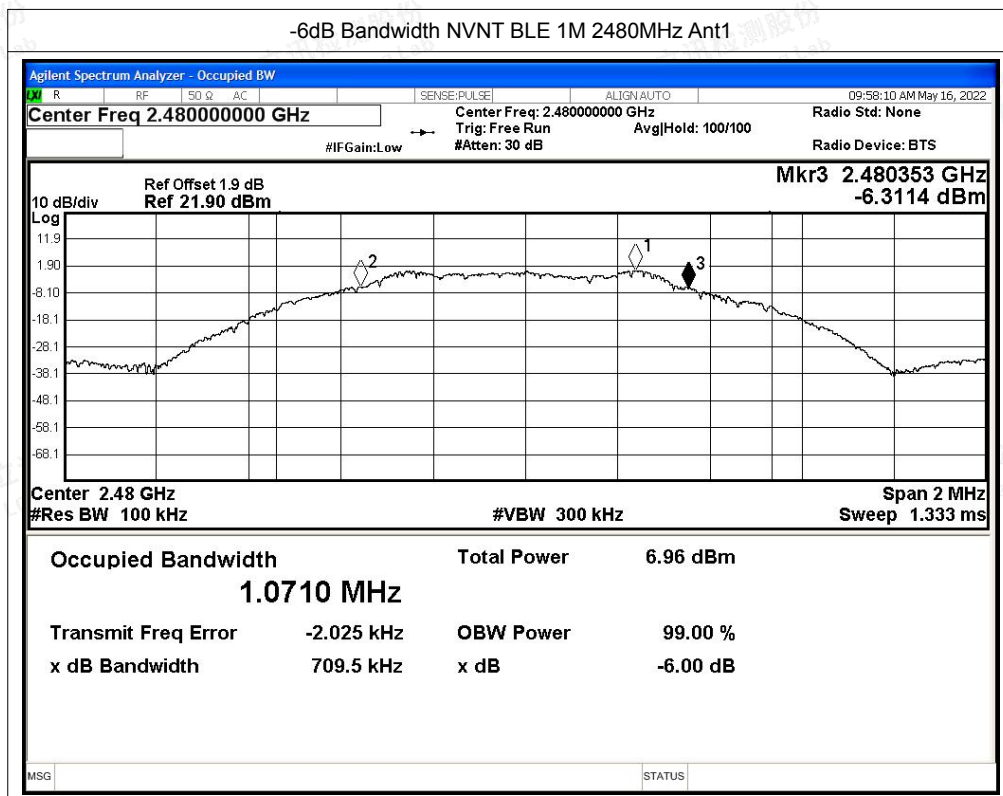


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## B.2 Maximum Conducted Output Power

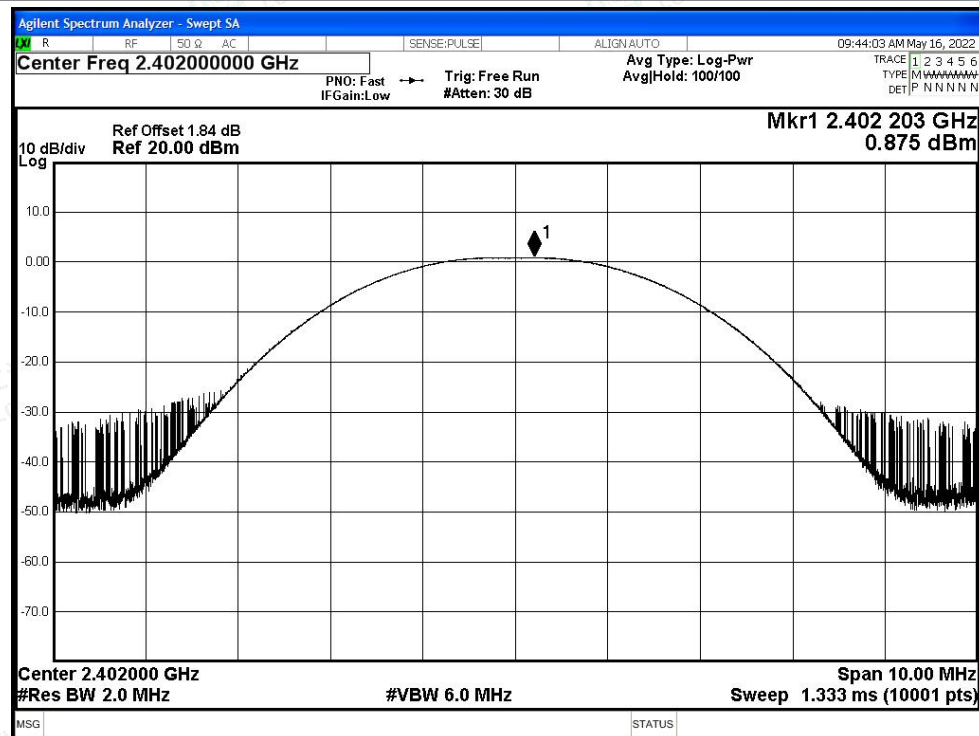
| Condition | Mode   | Frequency<br>(MHz) | Antenna | Total Power<br>(dBm) | Limit<br>(dBm) | Verdict |
|-----------|--------|--------------------|---------|----------------------|----------------|---------|
| NVNT      | BLE 1M | 2402               | Ant1    | 0.88                 | 30             | Pass    |
| NVNT      | BLE 1M | 2440               | Ant1    | 1.4                  | 30             | Pass    |
| NVNT      | BLE 1M | 2480               | Ant1    | 1.26                 | 30             | Pass    |



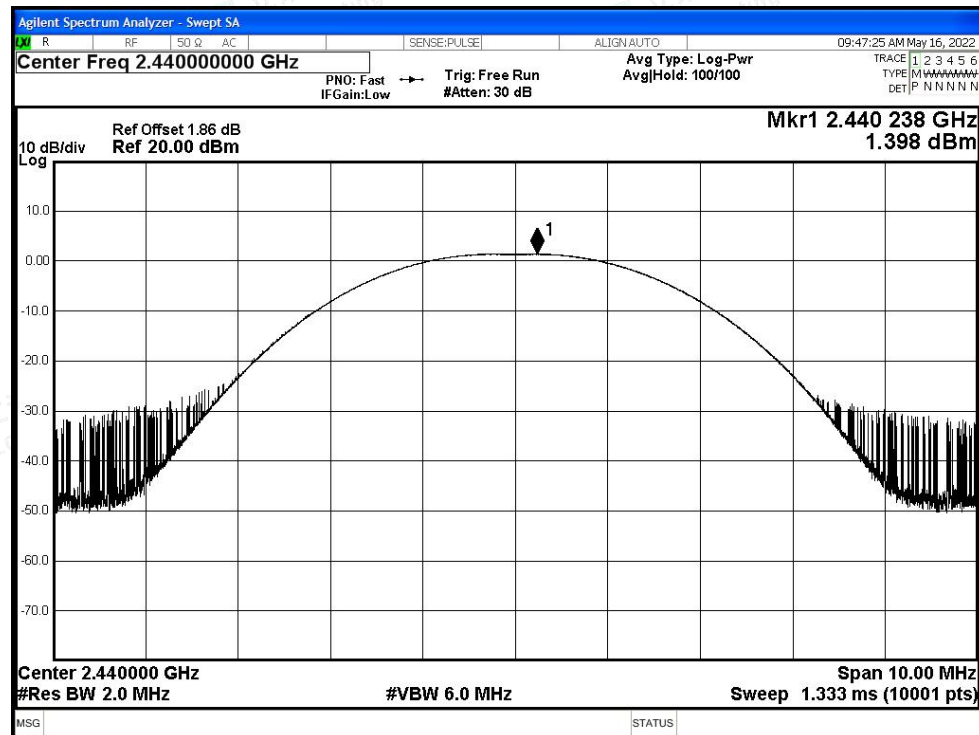


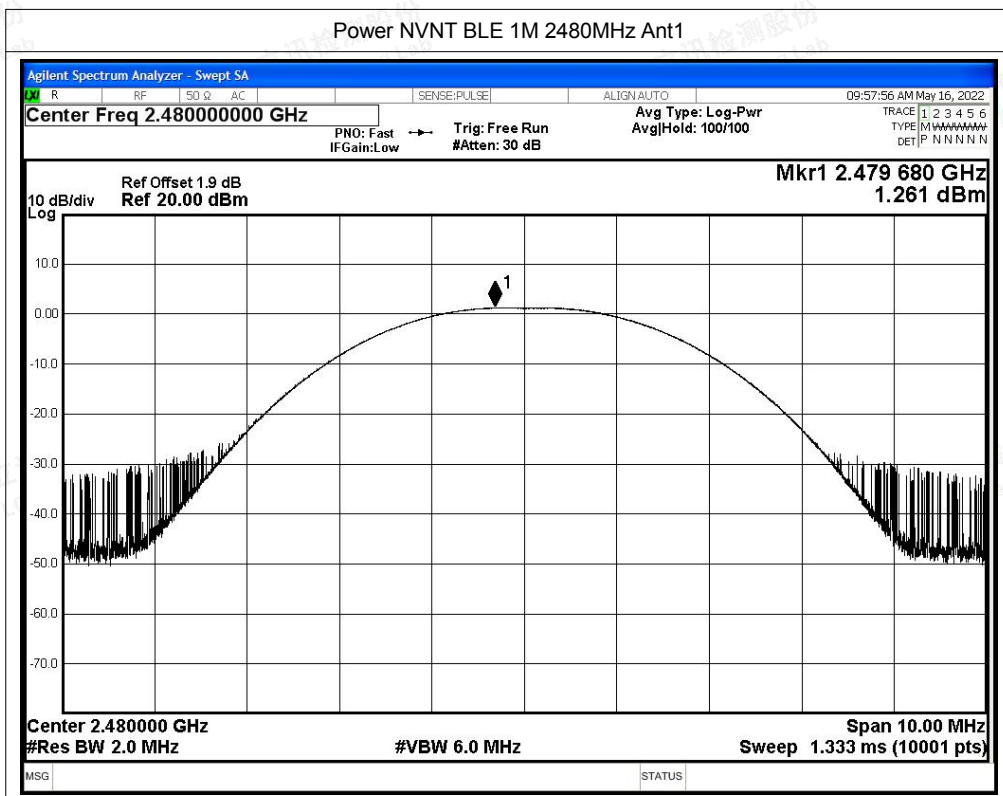
## Test Graphs

## Power NVNT BLE 1M 2402MHz Ant1



## Power NVNT BLE 1M 2440MHz Ant1







### B.3 Maximum Power Spectral Density Level

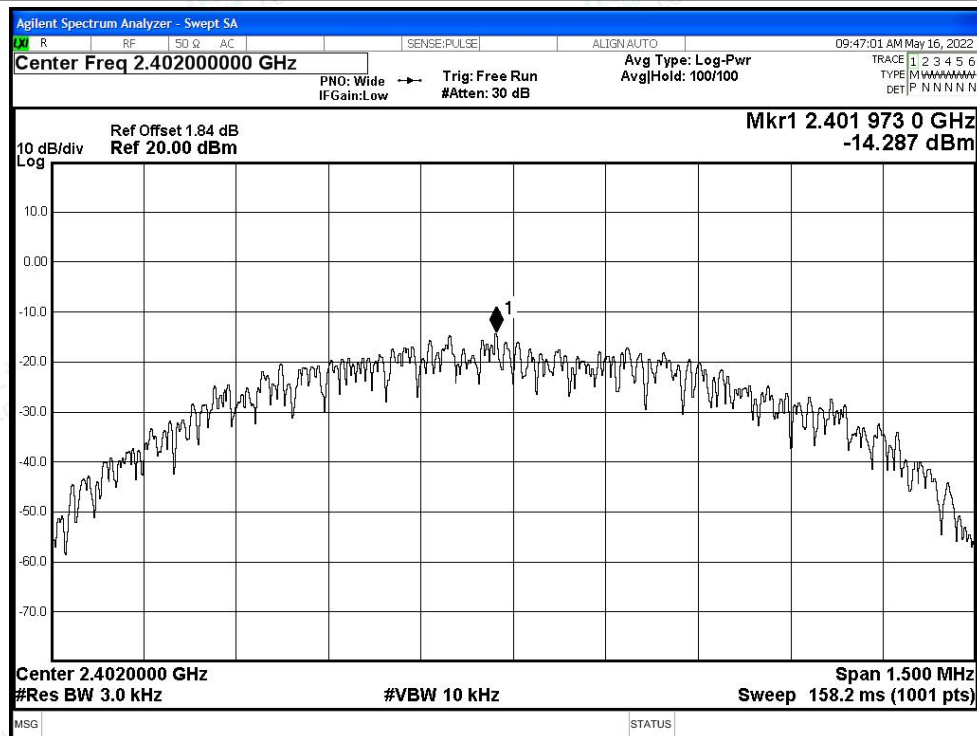
| Condition | Mode   | Frequency<br>(MHz) | Antenna | Total PSD<br>(dBm/3kHz) | Limit<br>(dBm/3kHz) | Verdict |
|-----------|--------|--------------------|---------|-------------------------|---------------------|---------|
| NVNT      | BLE 1M | 2402               | Ant1    | -14.29                  | 8                   | Pass    |
| NVNT      | BLE 1M | 2440               | Ant1    | -13.78                  | 8                   | Pass    |
| NVNT      | BLE 1M | 2480               | Ant1    | -13.58                  | 8                   | Pass    |



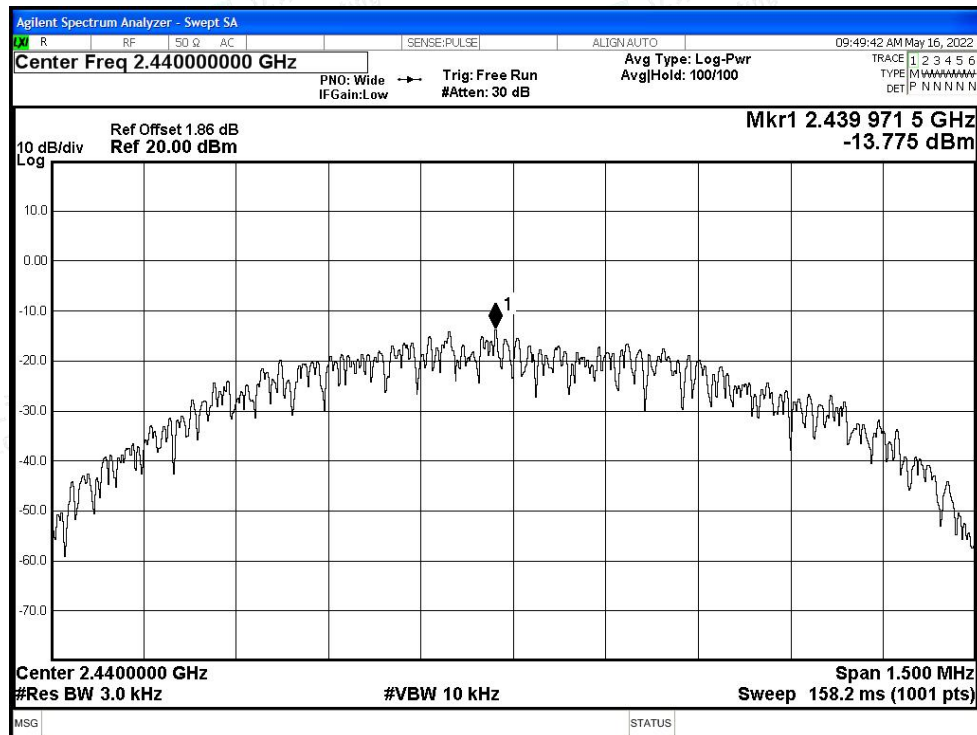


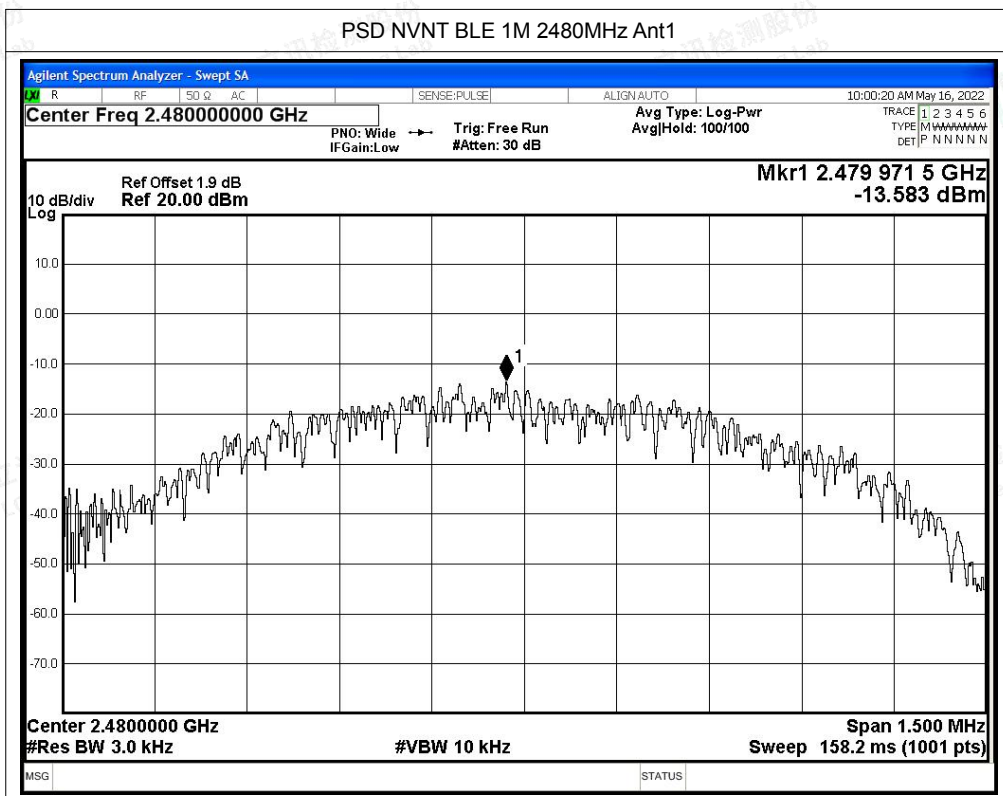
## Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1







B.4 Band Edge

| Condition | Mode   | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -47.41          | -20         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -51.01          | -20         | Pass    |

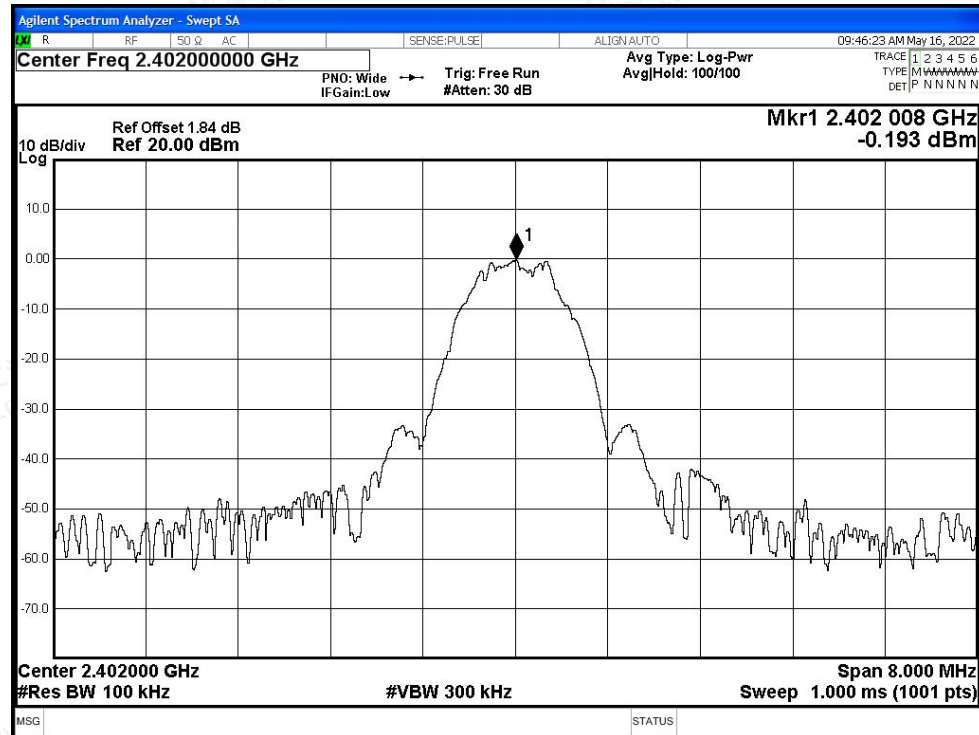


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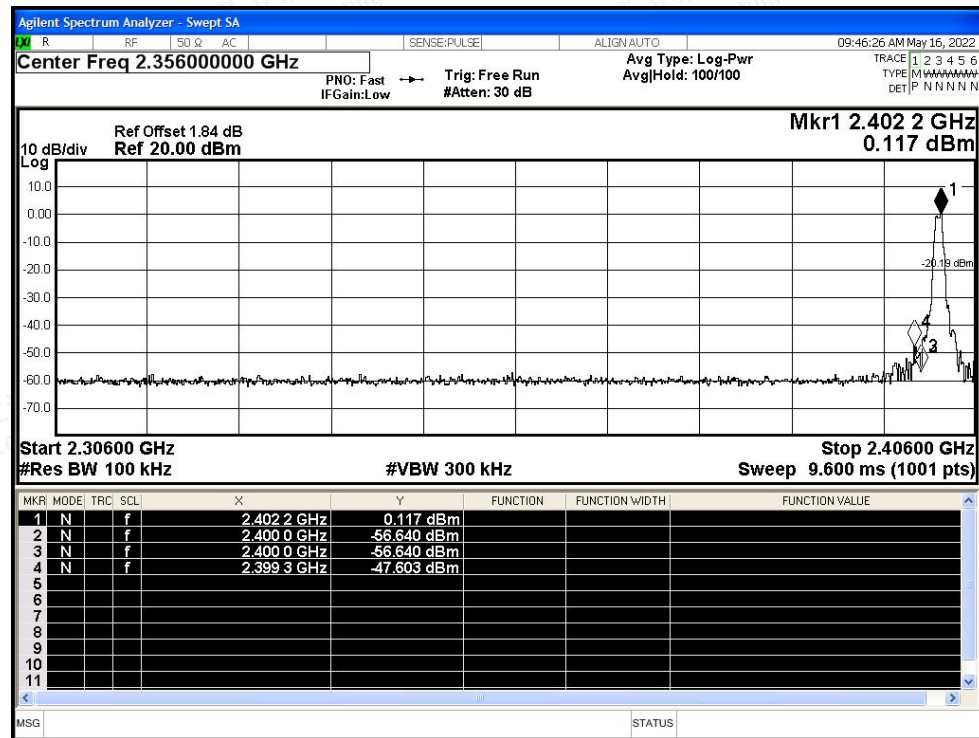


## Test Graphs

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



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



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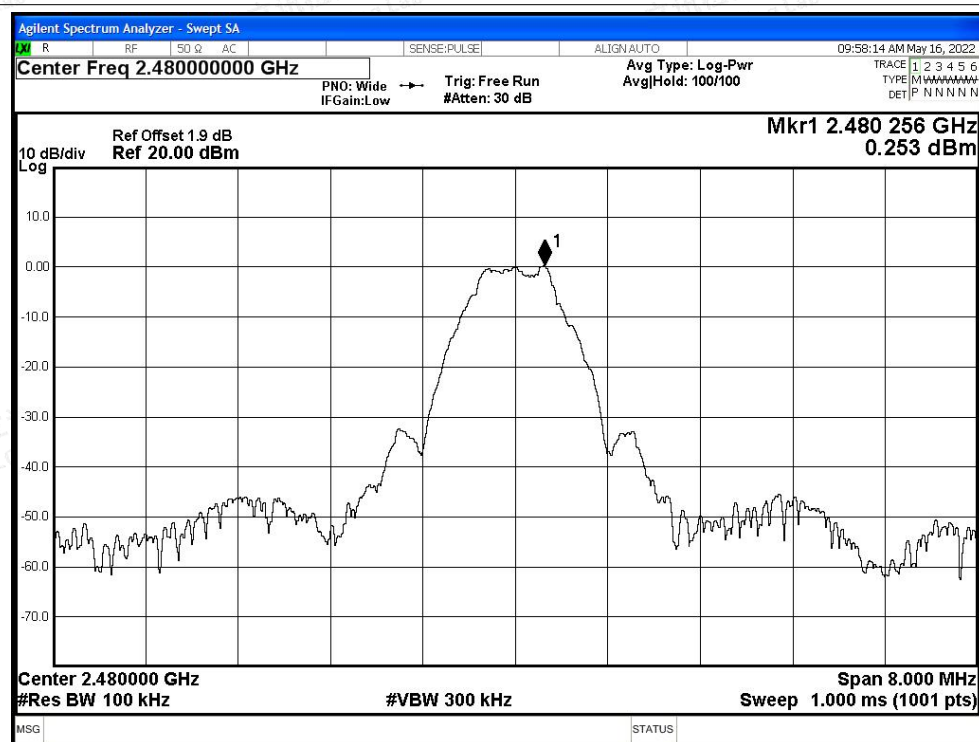
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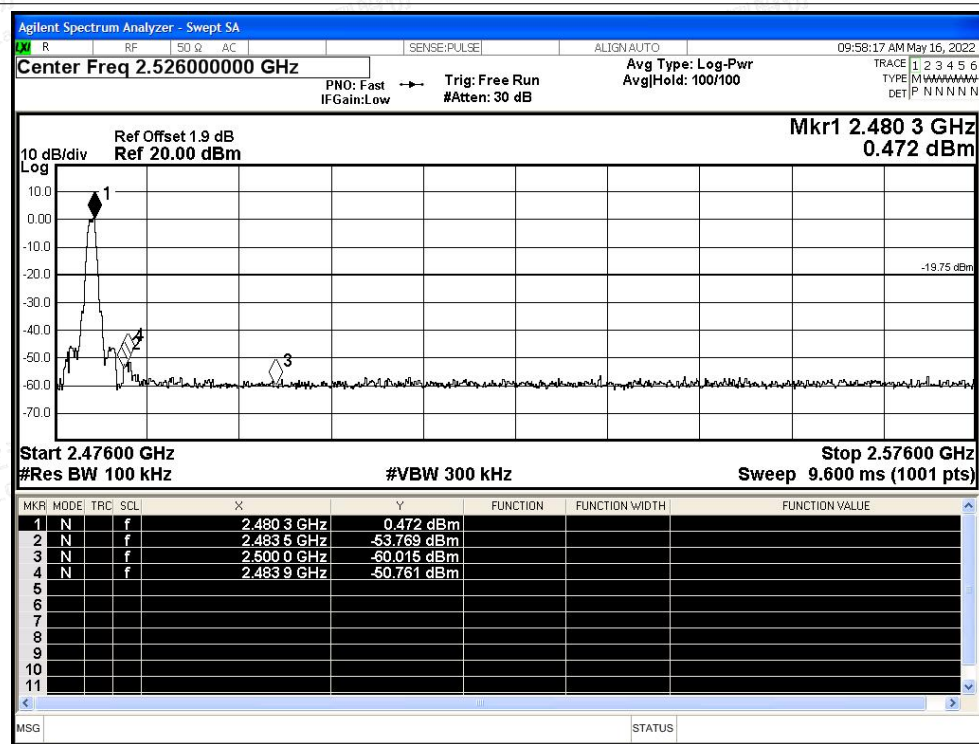
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## Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



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





B.5 Conducted RF Spurious Emission

| Condition | Mode   | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -55.91          | -20         | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | -53.95          | -20         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -55.73          | -20         | Pass    |

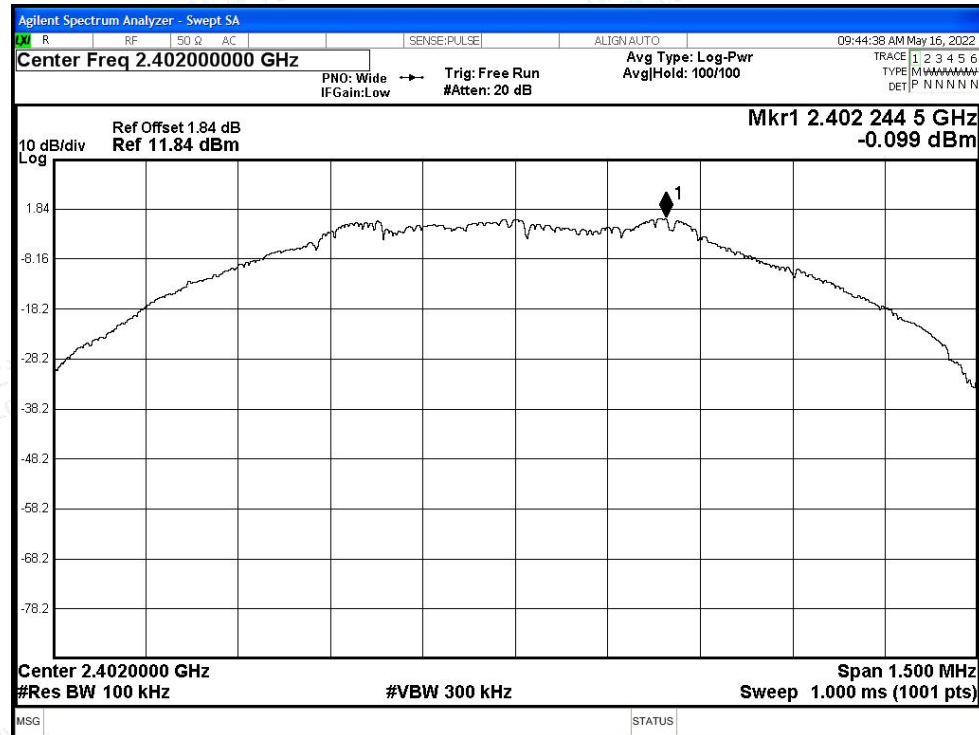


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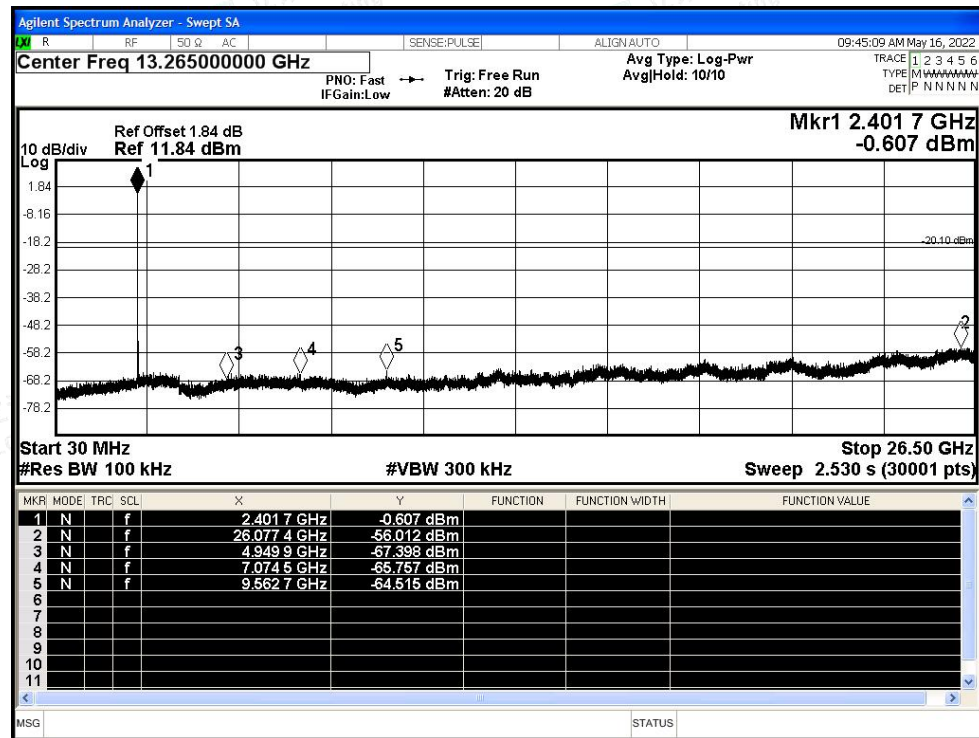


## Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref

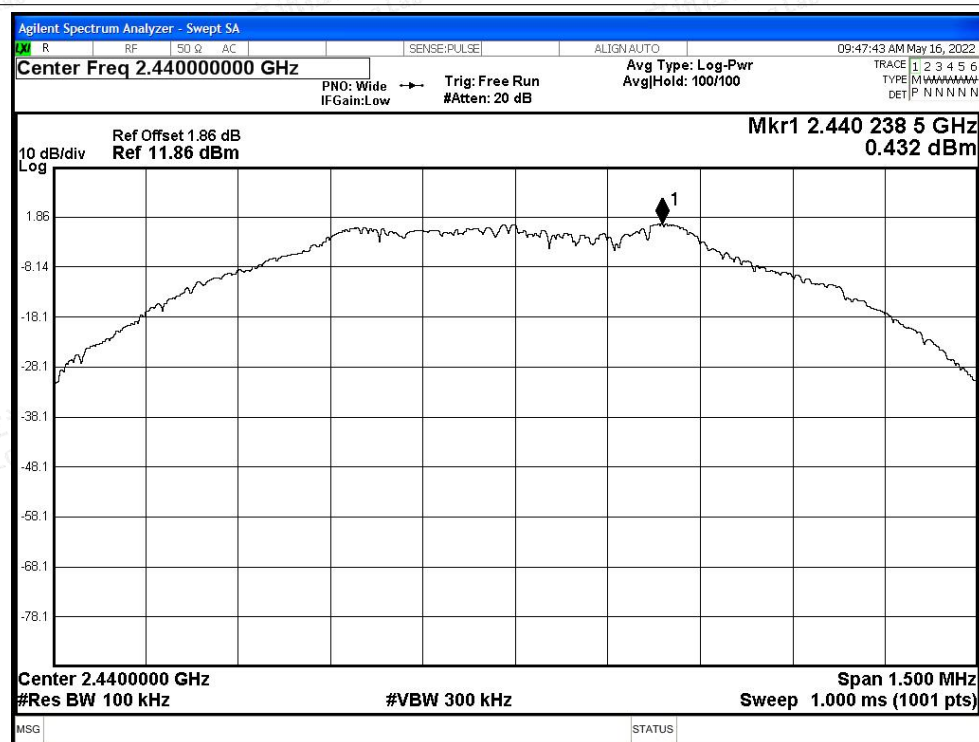


Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission

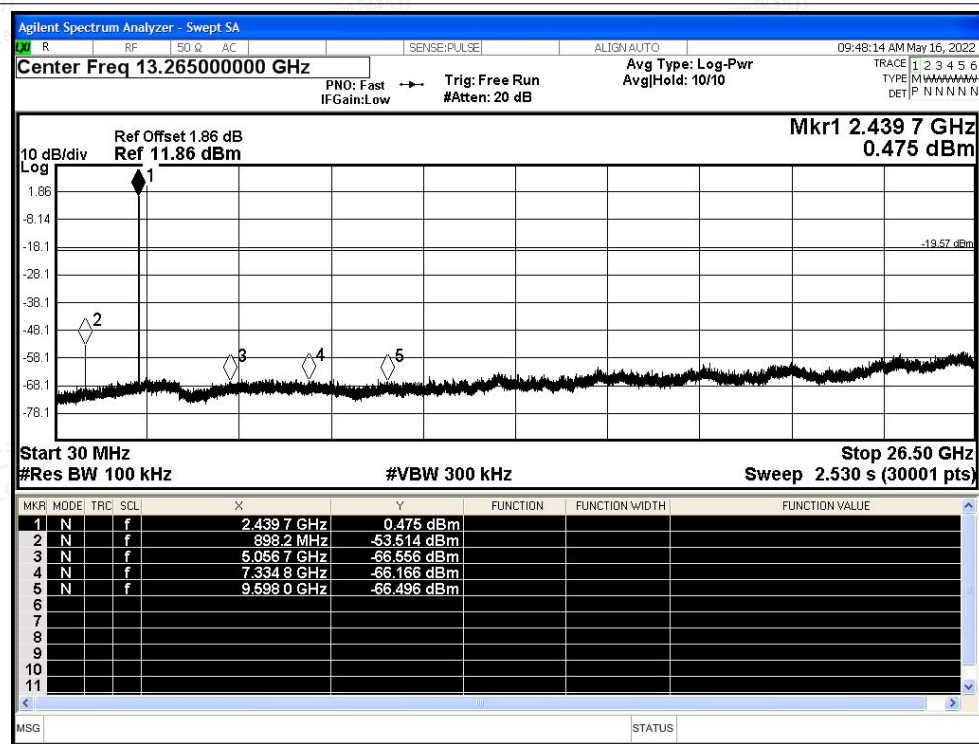




## Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref

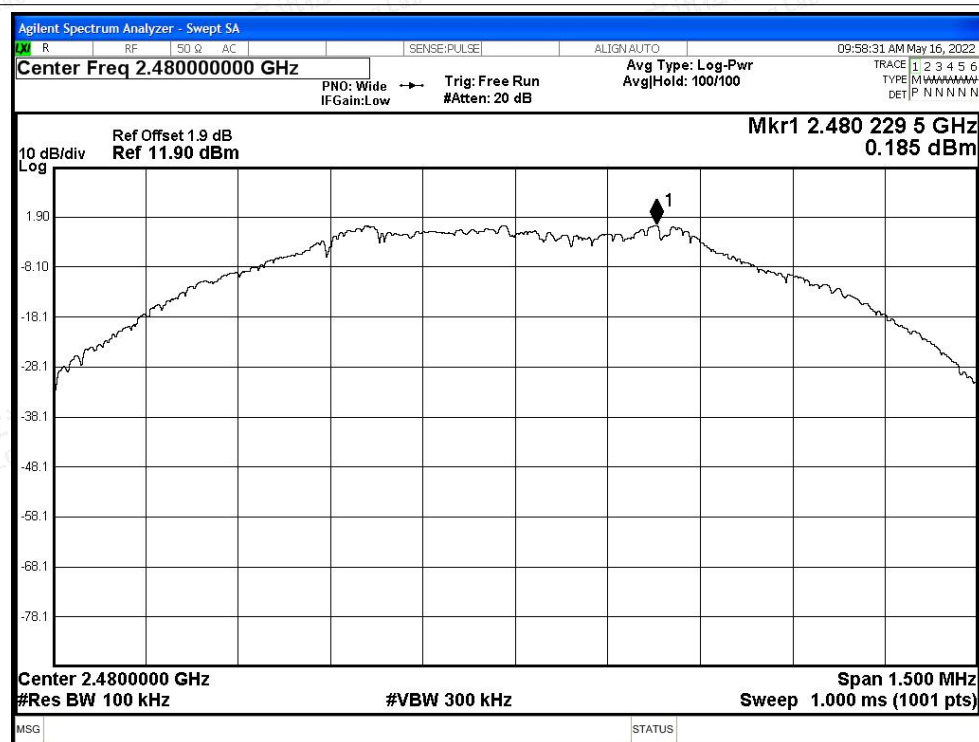


## Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission

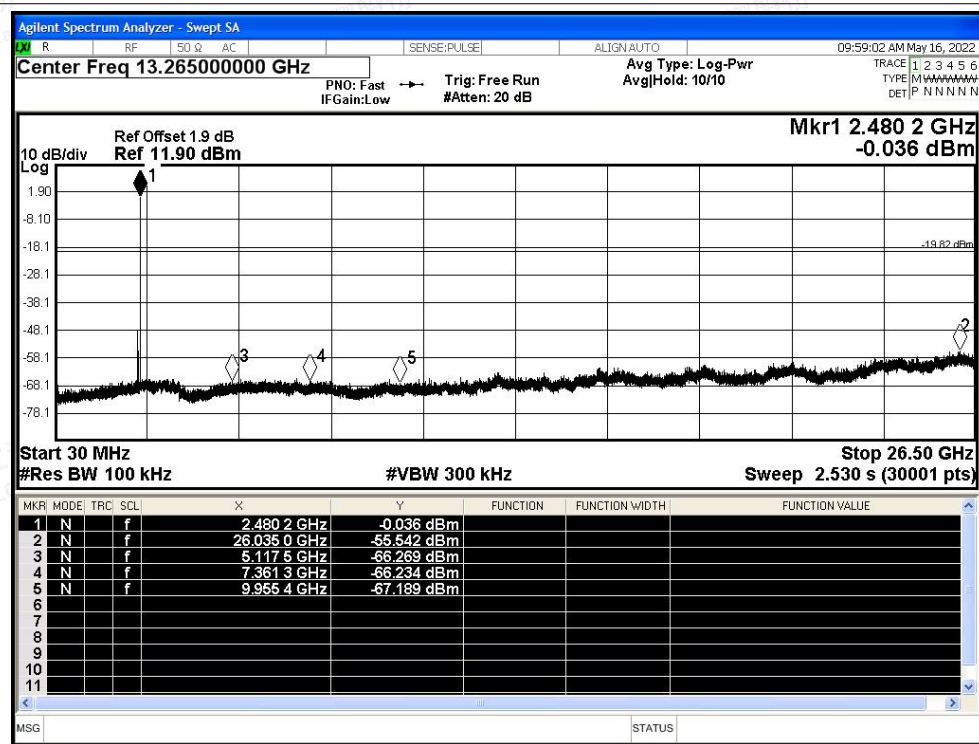




## Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



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





B.6 Duty Cycle

| Condition | Mode   | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|--------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | BLE 1M | 2402            | Ant1    | 61.68          | 2.1                    | 2.59      |
| NVNT      | BLE 1M | 2440            | Ant1    | 61.76          | 2.09                   | 2.59      |
| NVNT      | BLE 1M | 2480            | Ant1    | 61.51          | 2.11                   | 2.61      |

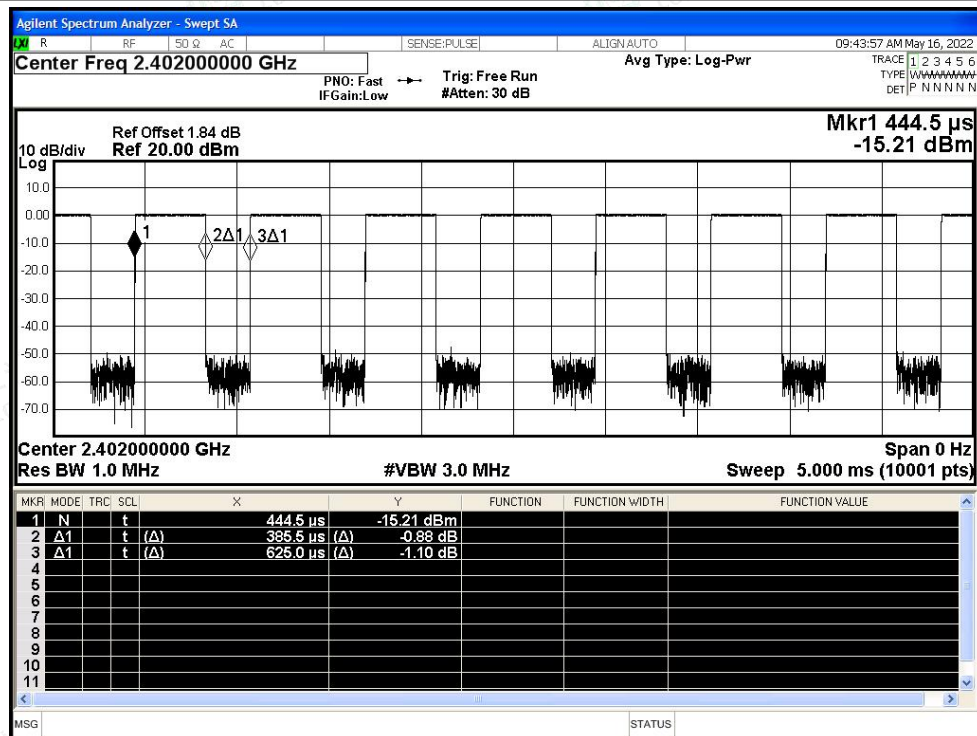


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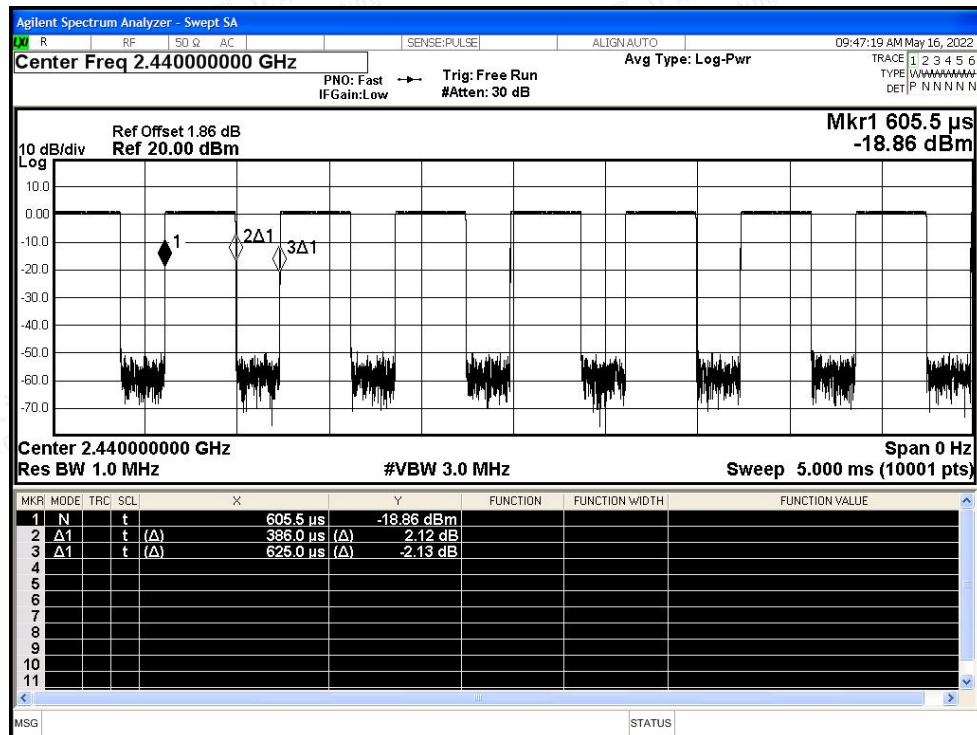


## Test Graphs

## Duty Cycle NVNT BLE 1M 2402MHz Ant1

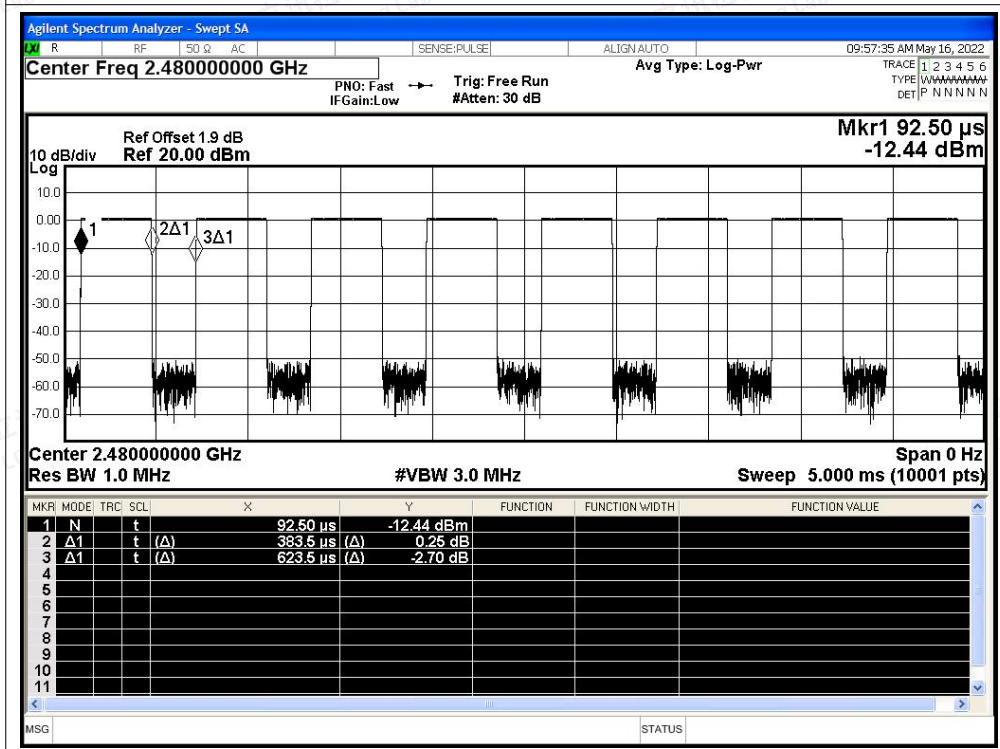


## Duty Cycle NVNT BLE 1M 2440MHz Ant1





## Duty Cycle NVNT BLE 1M 2480MHz Ant1





## B.7 Restrict Band

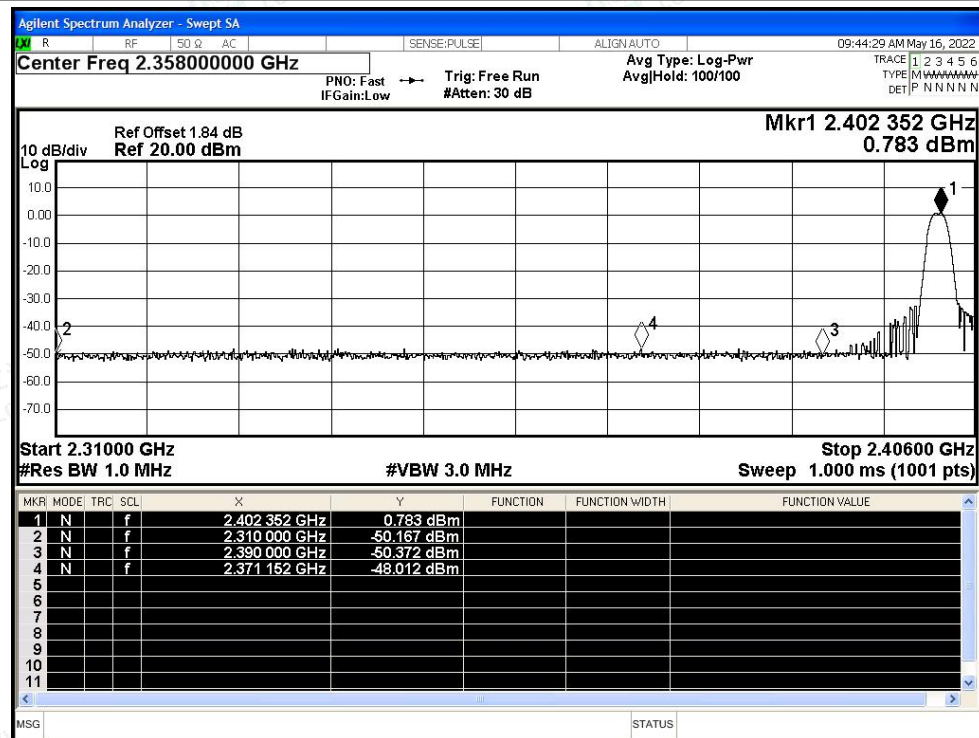
| Condition | Mode   | Frequency (MHz) | Antenna | Spur Freq (MHz) | Power (dBm) | Gain (dBi) | E (dBuV/m) | Detector | Limit (dBuV/m) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|------------|------------|----------|----------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | 2310            | -50.17      | 2          | 47.09      | Peak     | 74             | Pass    |
| NVNT      | BLE 1M | 2402            | Ant1    | 2310            | -59.95      | 2          | 37.31      | Average  | 54             | Pass    |
| NVNT      | BLE 1M | 2402            | Ant1    | 2371.152        | -48.01      | 2          | 49.25      | Peak     | 74             | Pass    |
| NVNT      | BLE 1M | 2402            | Ant1    | 2387.088        | -54.77      | 2          | 42.49      | Average  | 54             | Pass    |
| NVNT      | BLE 1M | 2402            | Ant1    | 2390            | -50.97      | 2          | 46.29      | Peak     | 74             | Pass    |
| NVNT      | BLE 1M | 2402            | Ant1    | 2390            | -57.8       | 2          | 39.46      | Average  | 54             | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 2483.5          | -50.09      | 2          | 47.17      | Peak     | 74             | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 2483.5          | -58.82      | 2          | 38.44      | Average  | 54             | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 2483.584        | -35.96      | 2          | 61.3       | Peak     | 74             | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 2487.904        | -58.62      | 2          | 38.64      | Average  | 54             | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 2500            | -51.18      | 2          | 46.08      | Peak     | 74             | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 2500            | -59.2       | 2          | 38.06      | Average  | 54             | Pass    |



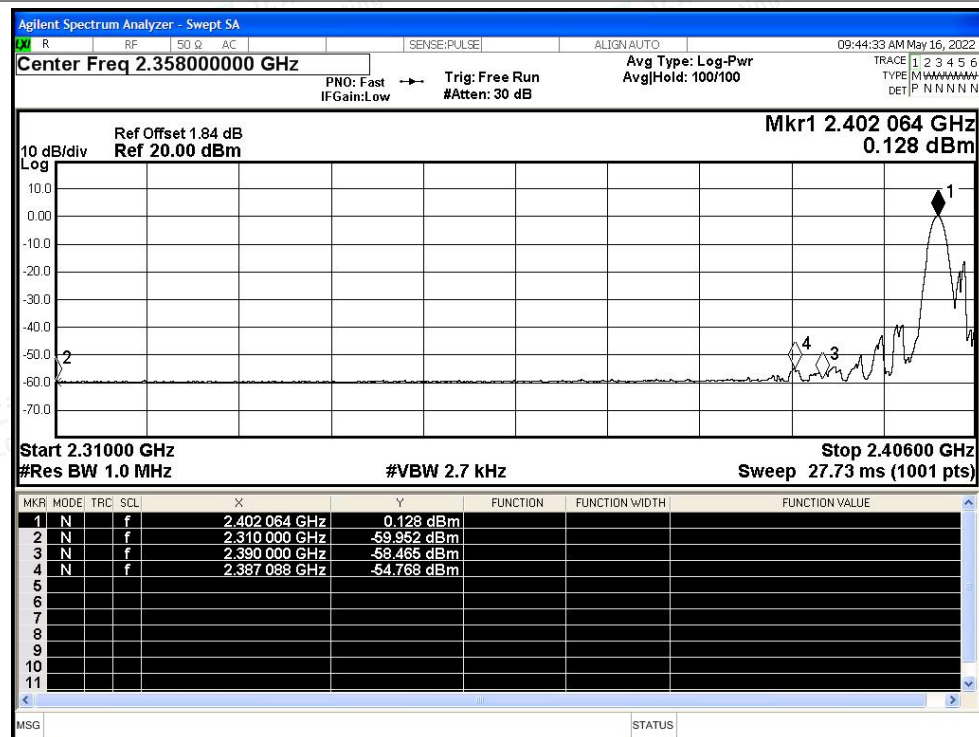


## Test Graphs

## Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak

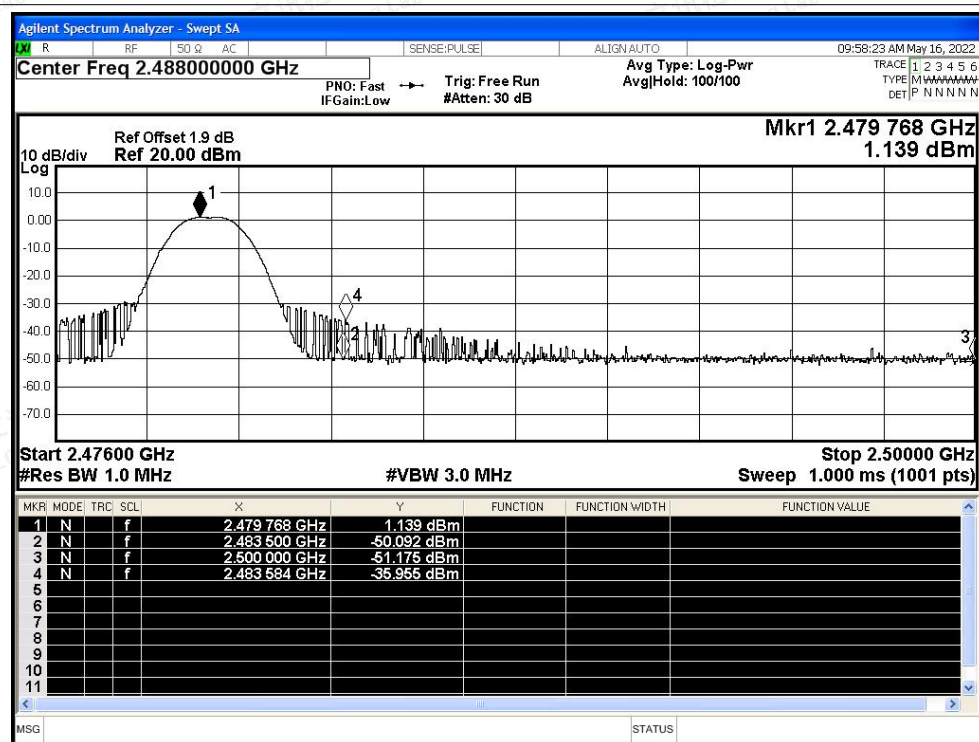


## Restrict Band NVNT BLE 1M 2402MHz Ant1 Average

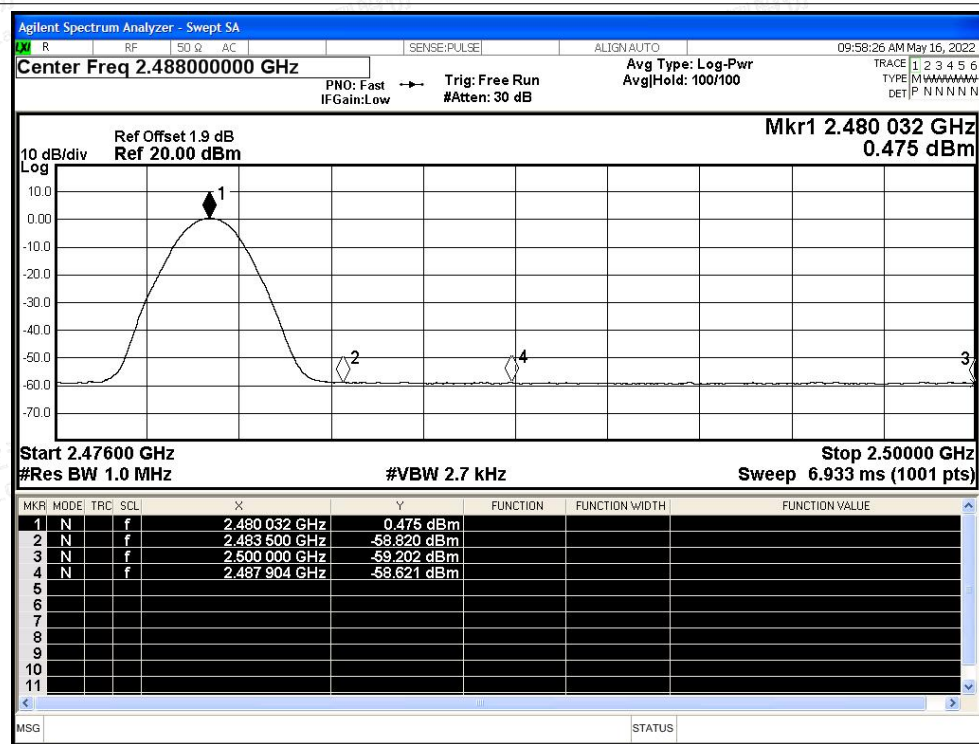




## Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



## Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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