



## Appendix B

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

Product Name: myFirst Fone R1s

Test Model: KW1305

#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 23.2° C   |
| Relative Humidity: | 52.1%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Ling Zhu  |
| Supervised by:     | Li Huan   |





### B.1 -6dB Bandwidth

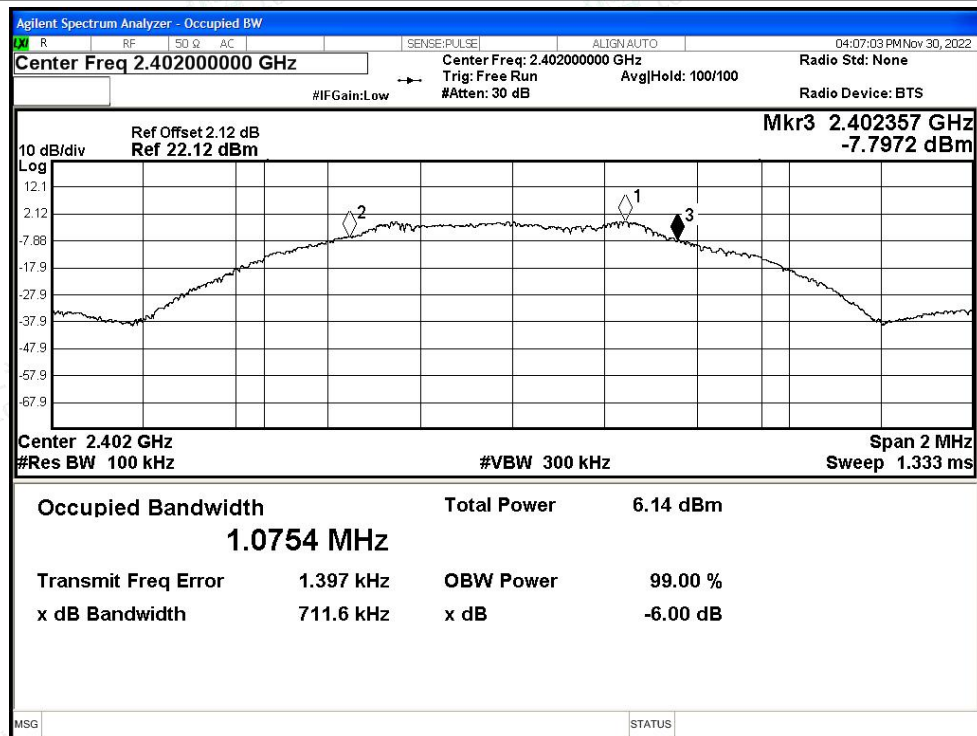
| Condition | Mode   | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|--------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | 0.712                 | $\geq 0.5$                  | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | 0.702                 | $\geq 0.5$                  | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 0.701                 | $\geq 0.5$                  | Pass    |



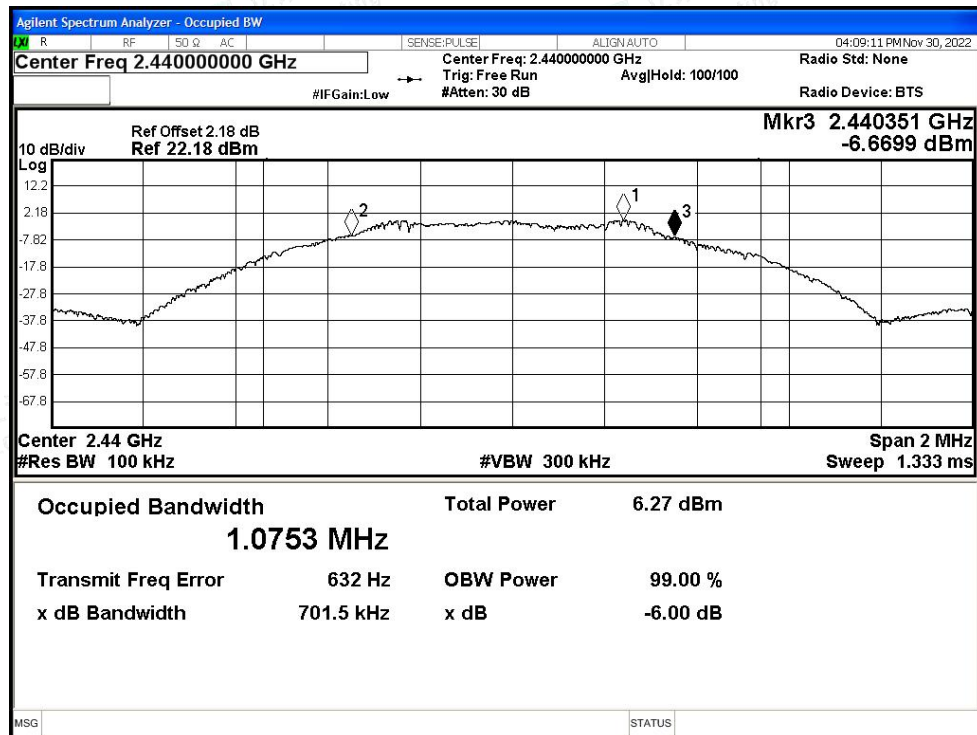


## Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

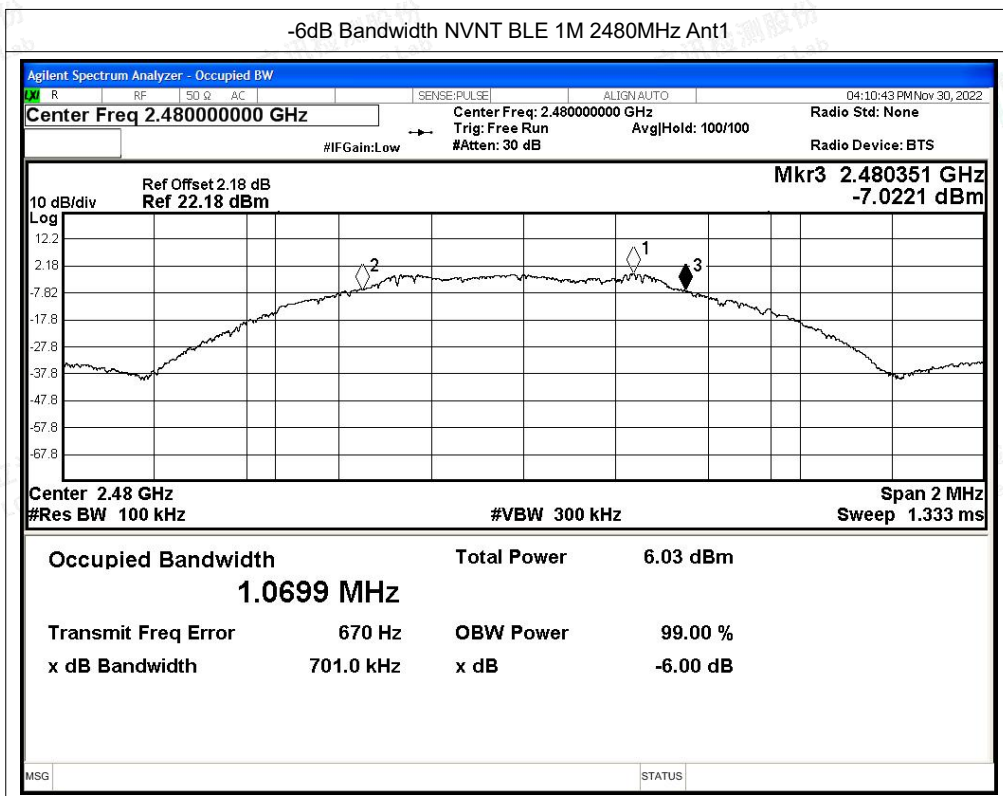


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B.2 Maximum Conducted Output Power

| Condition | Mode   | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|--------|-----------------|---------|-----------------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | 0.42                  | 30          | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | 0.57                  | 30          | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 0.33                  | 30          | Pass    |

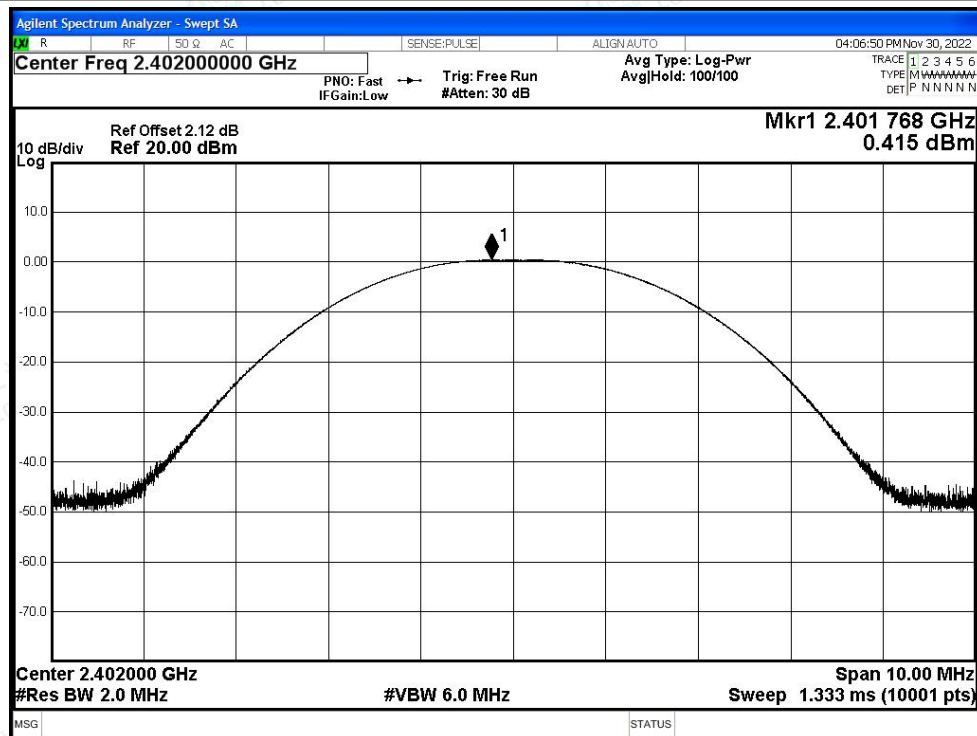


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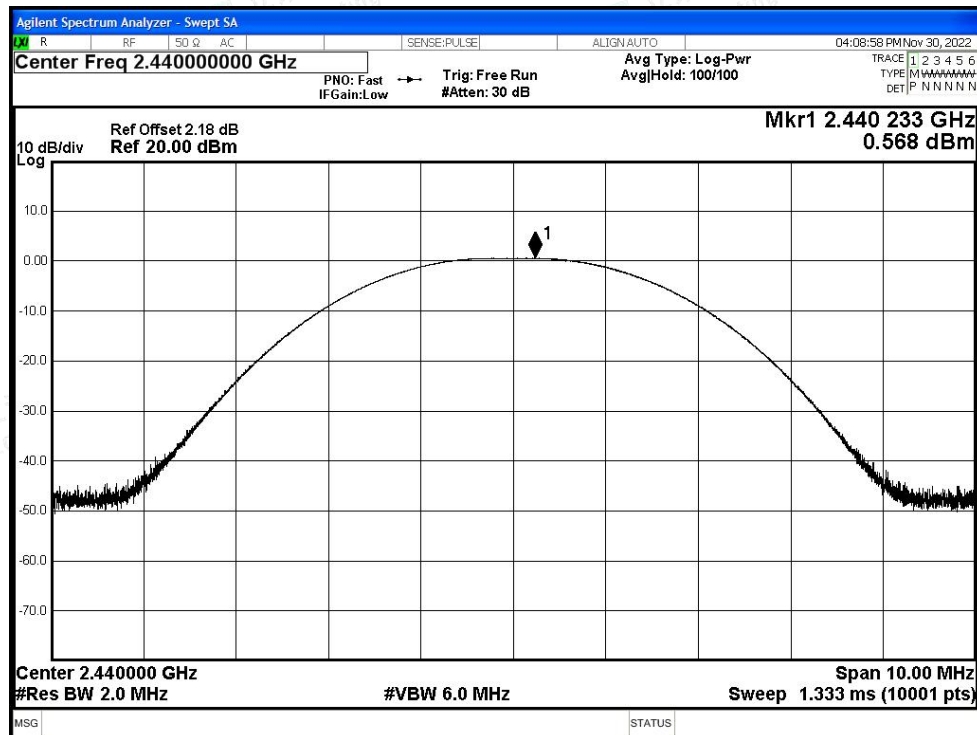


## Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1

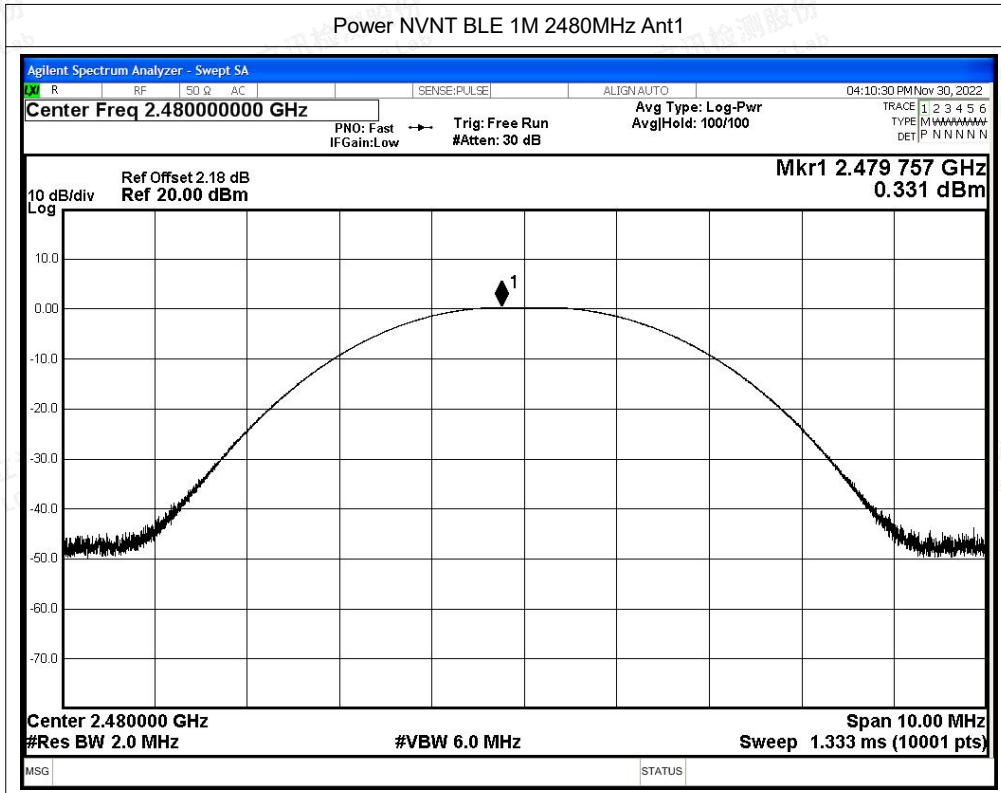


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### B.3 Maximum Power Spectral Density Level

| Condition | Mode   | Frequency (MHz) | Antenna | Conducted PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|--------|-----------------|---------|--------------------------|------------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -14.74                   | 8                | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | -14.54                   | 8                | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -14.81                   | 8                | Pass    |

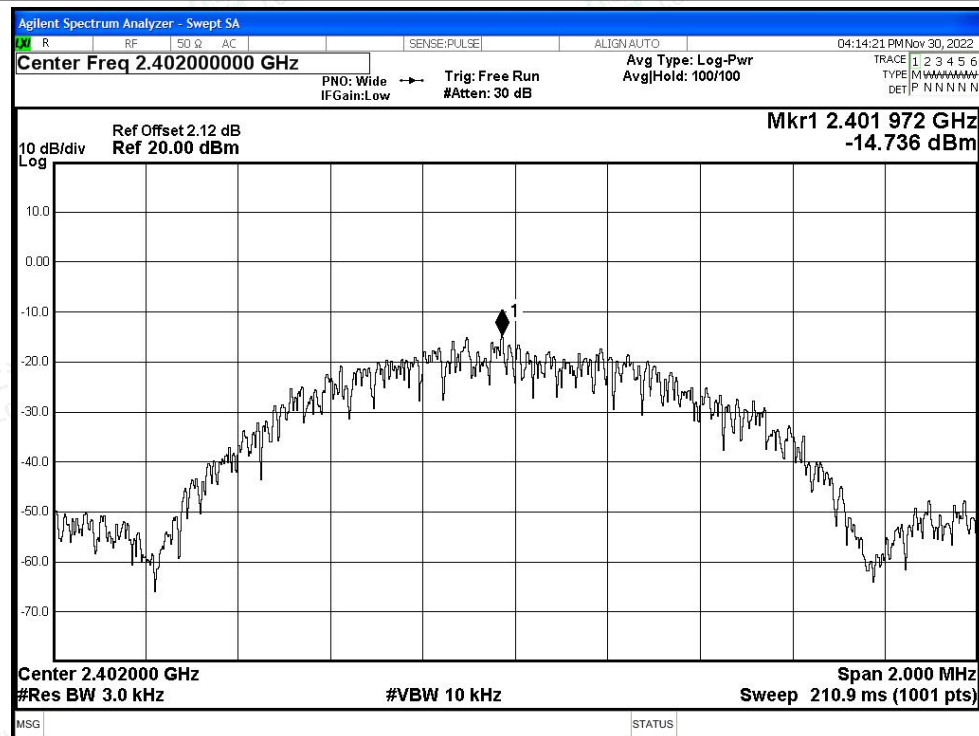




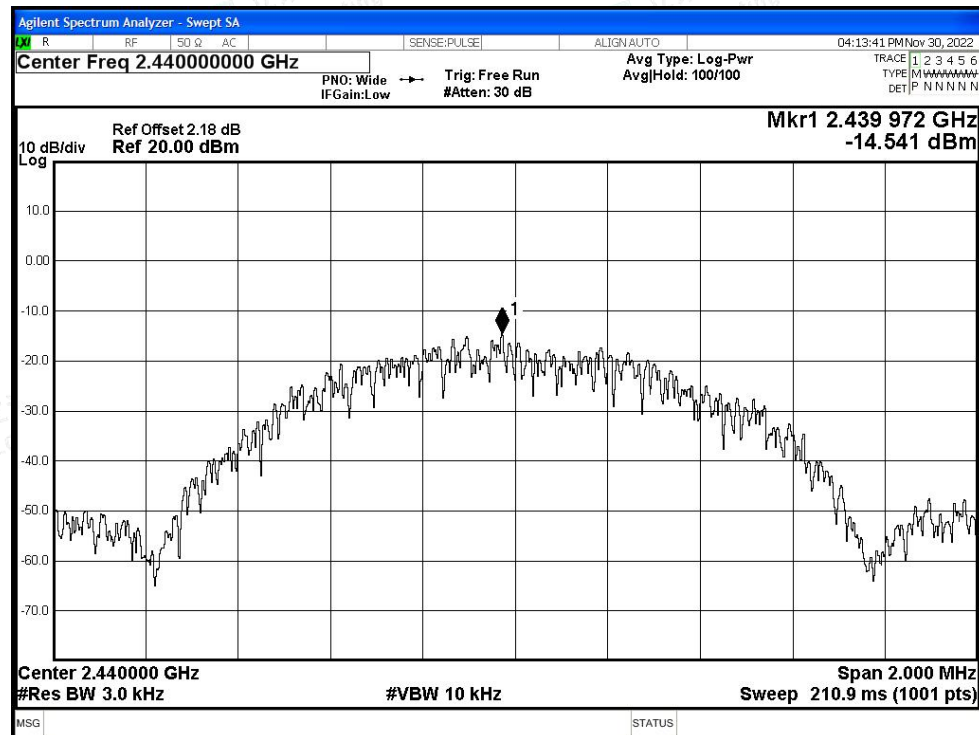


## Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1



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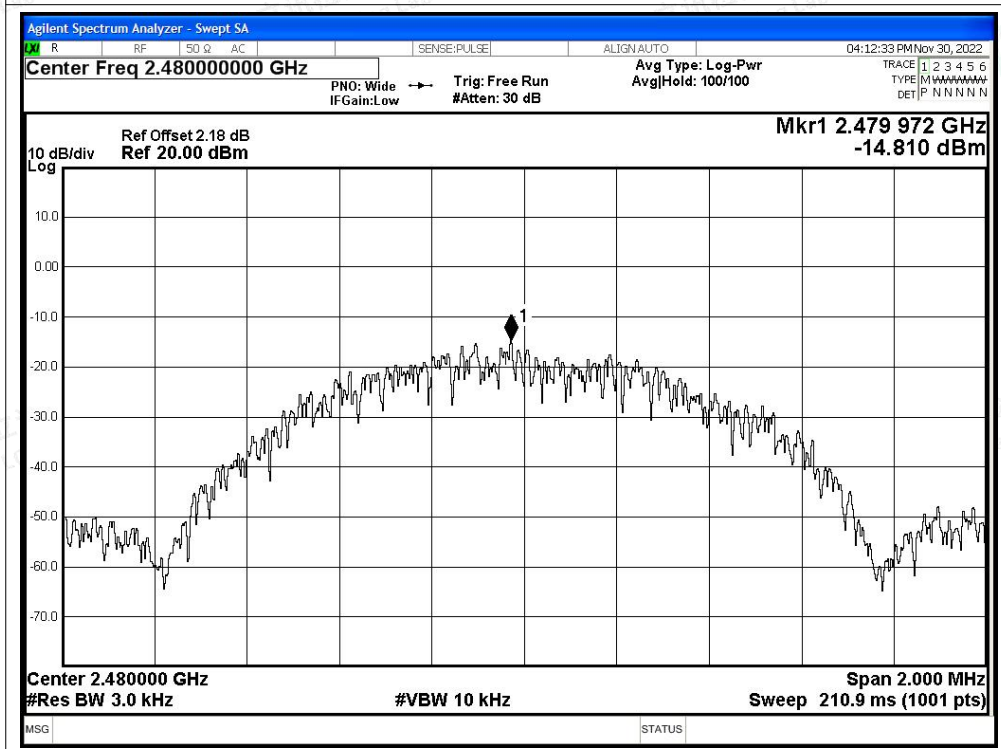
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## PSD NVNT BLE 1M 2480MHz Ant1





B.4 Band Edge

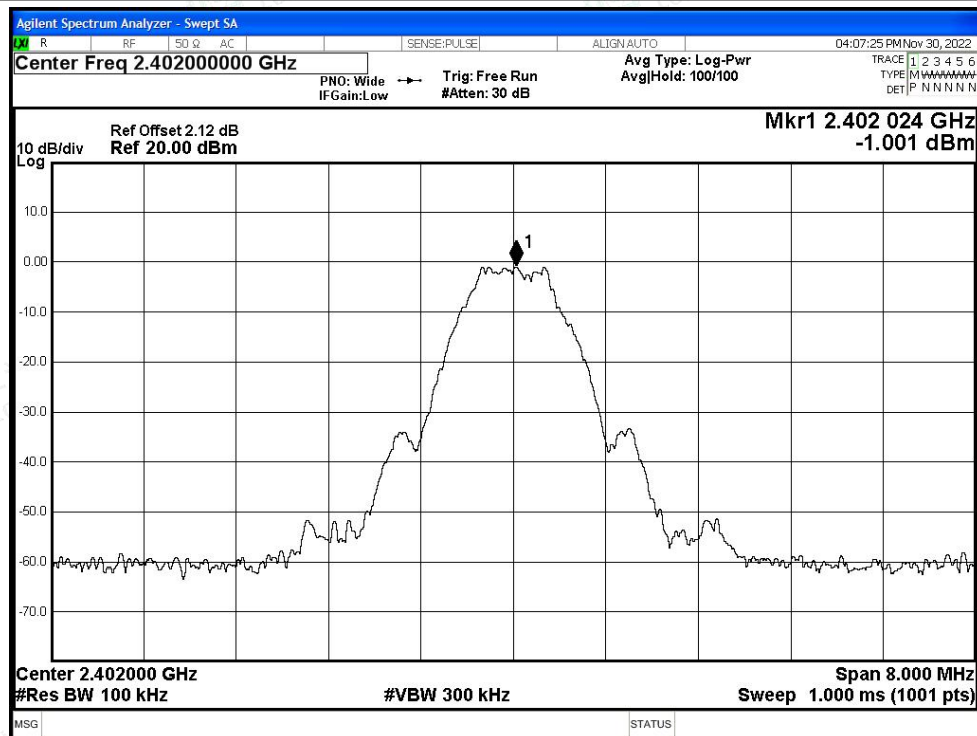
| Condition | Mode   | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -55.94          | -20         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -56.53          | -20         | Pass    |



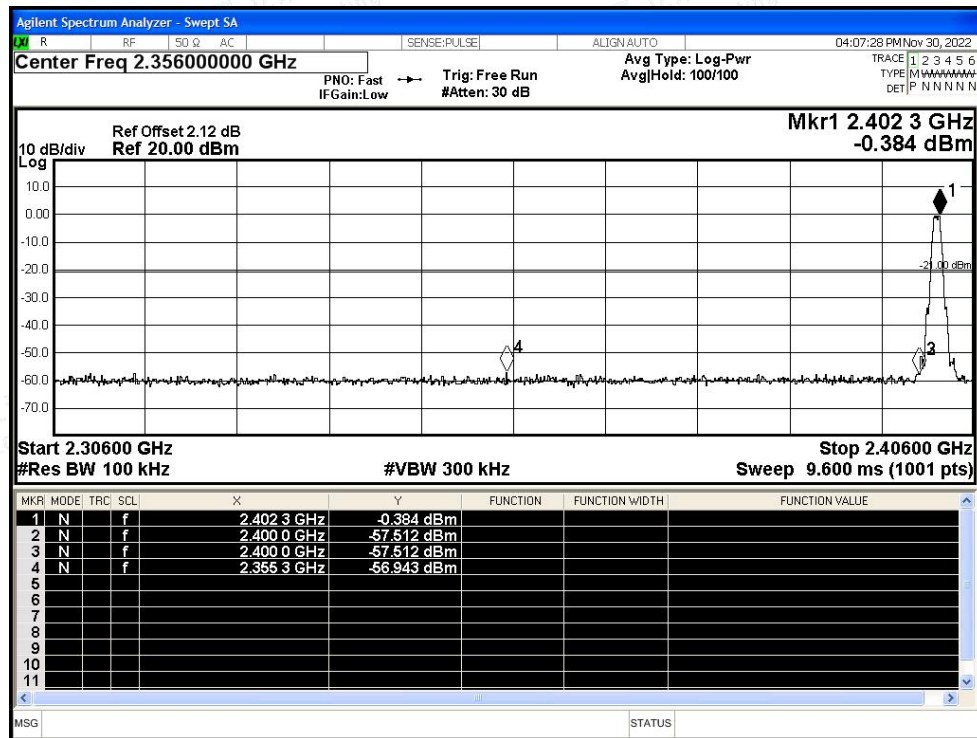


## Test Graphs

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



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



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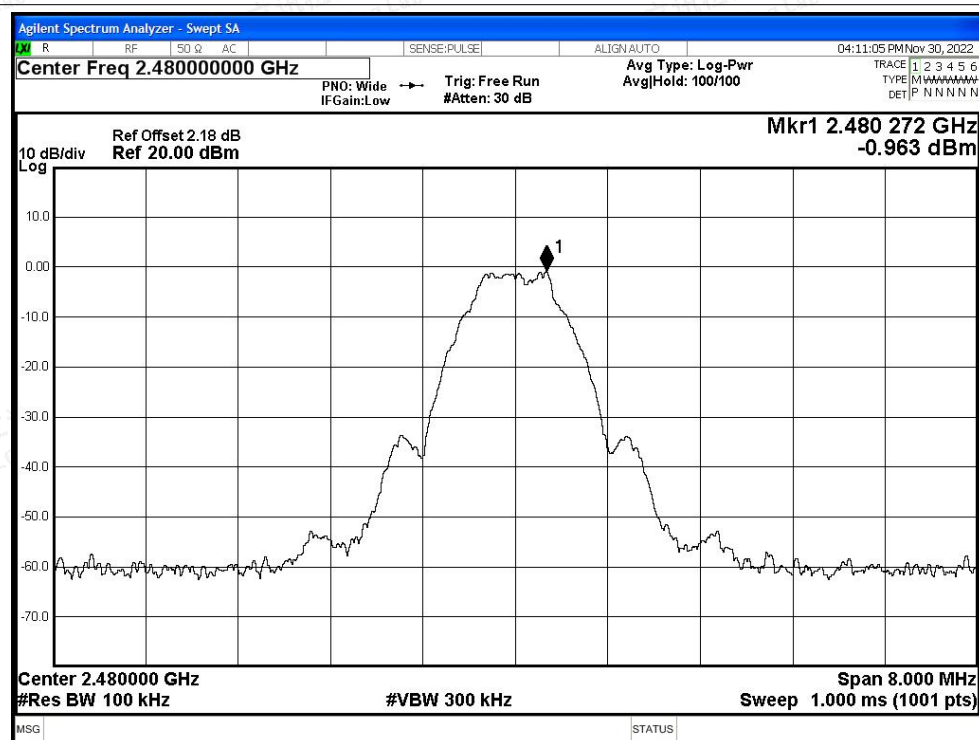
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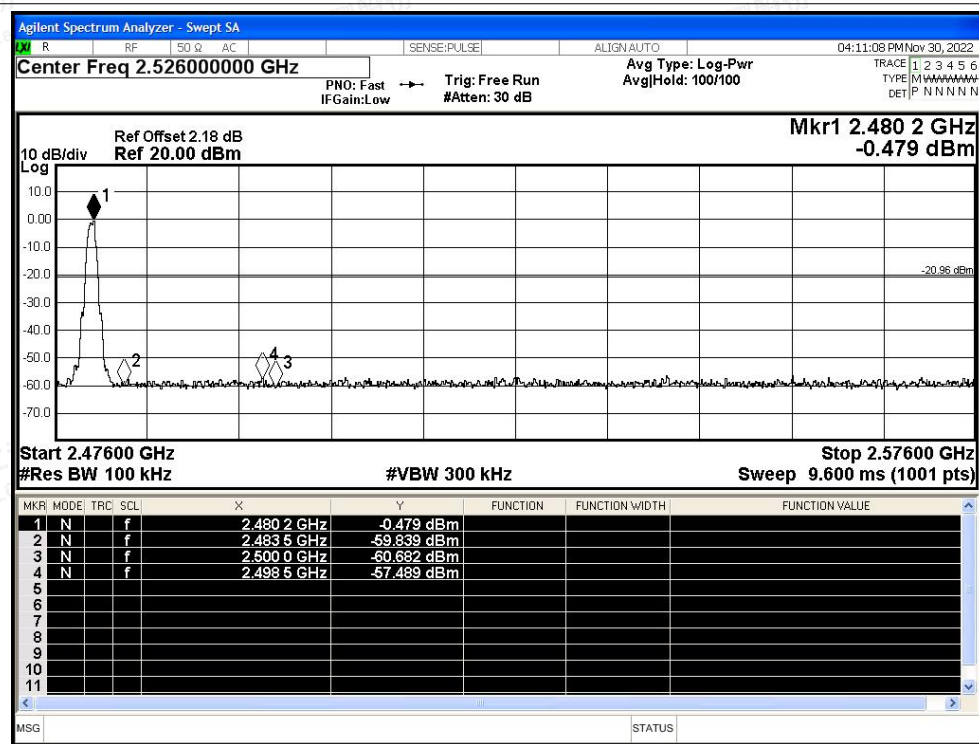
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## Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



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



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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    | -53.94          | -20         | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | -55.55          | -20         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -54.87          | -20         | Pass    |



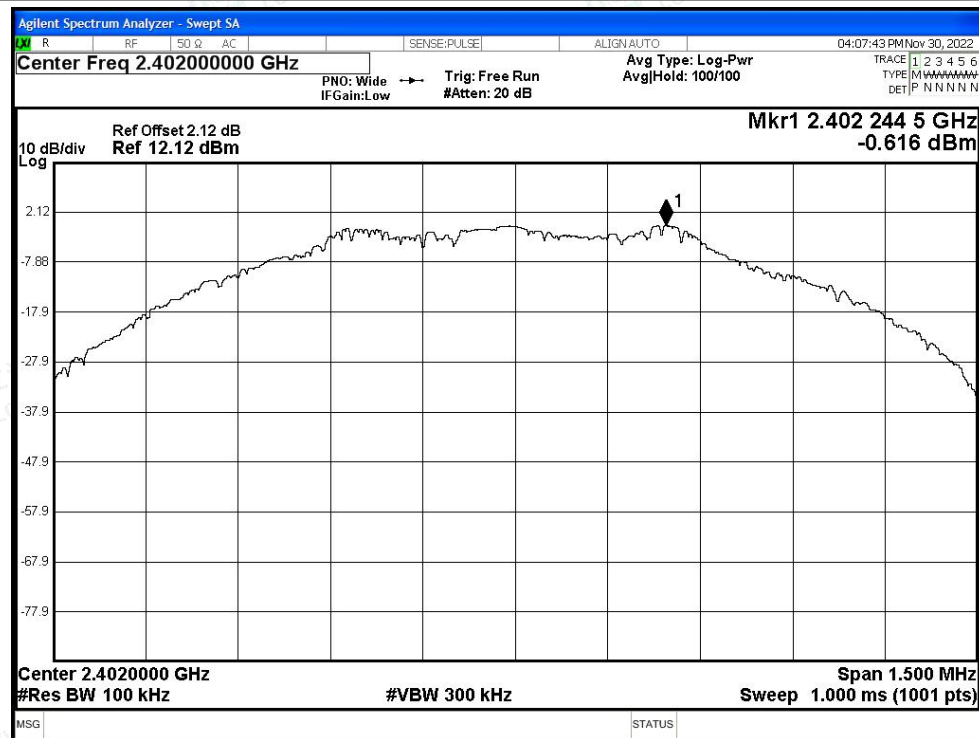
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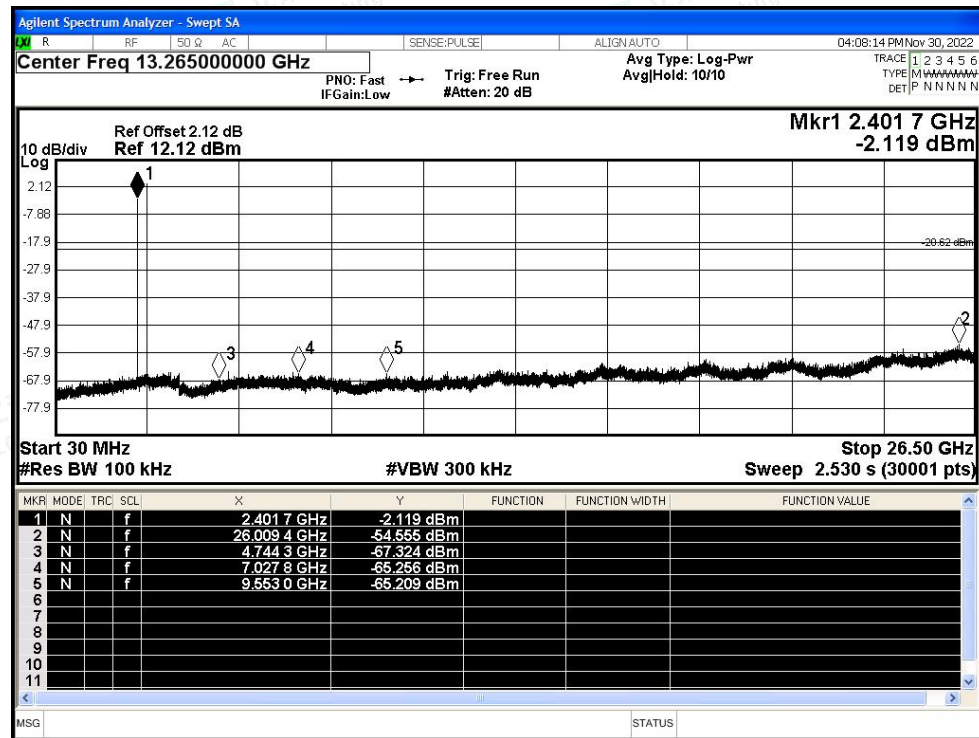


## Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



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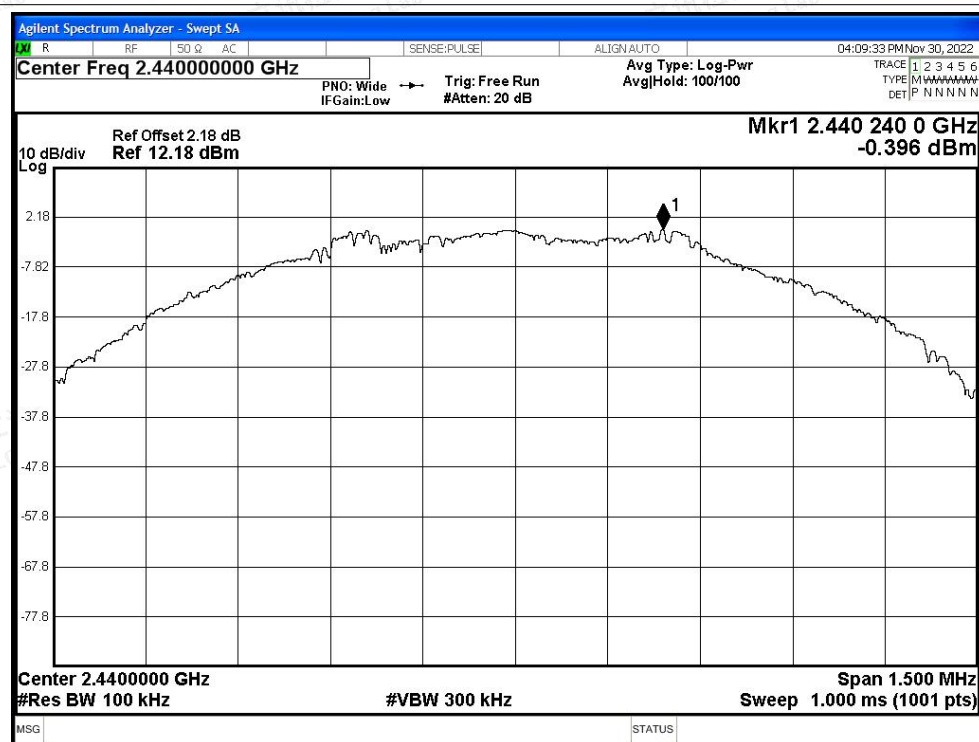
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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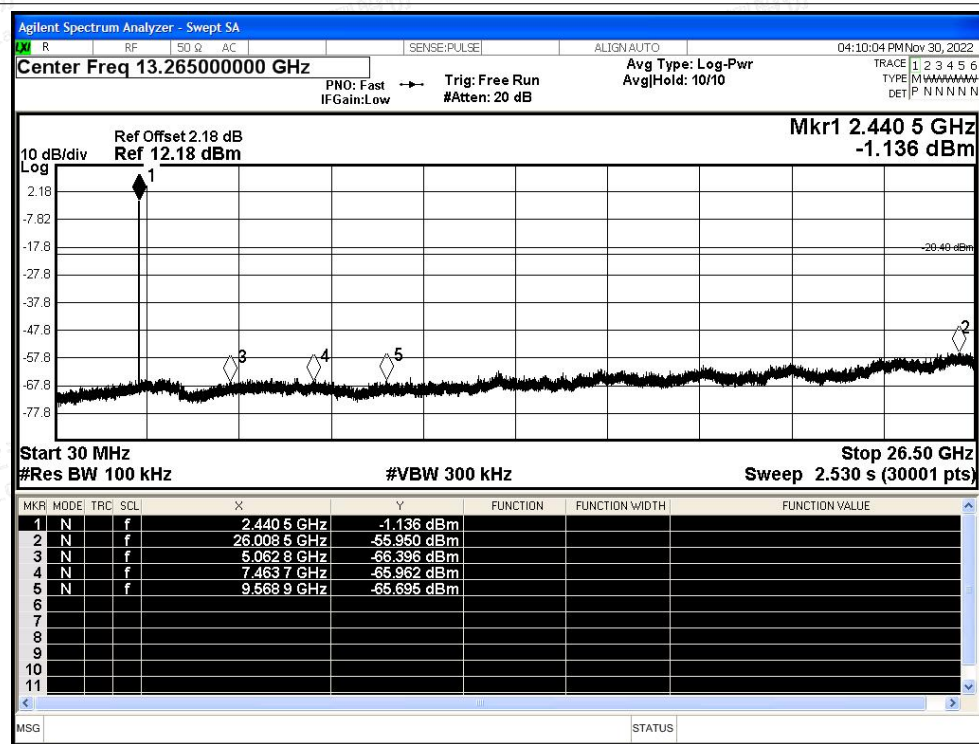
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## Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



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



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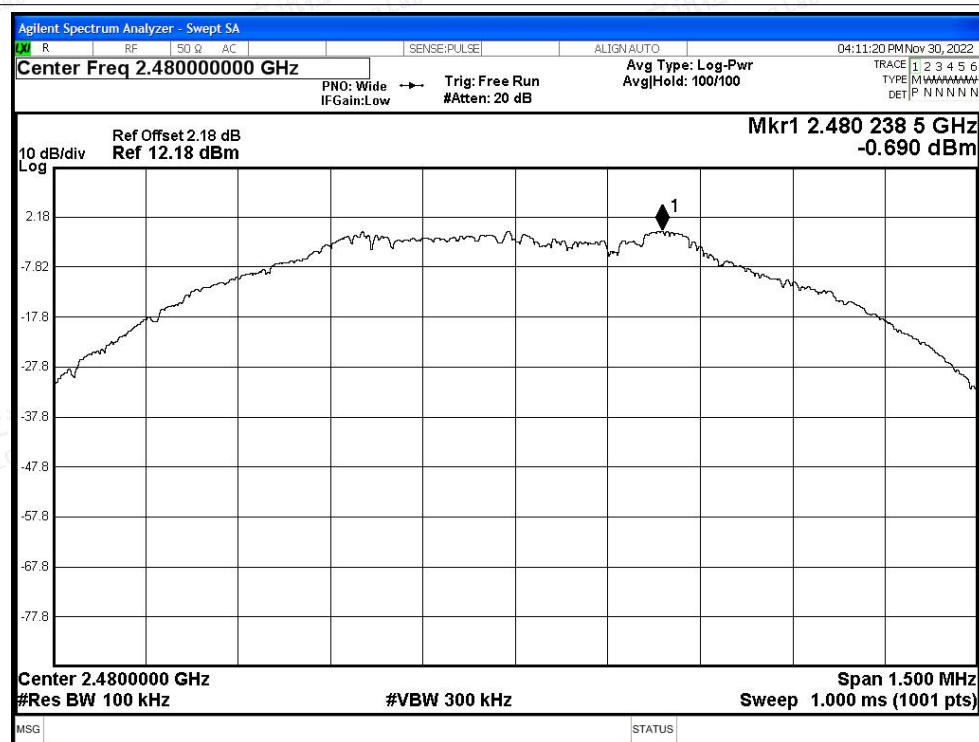
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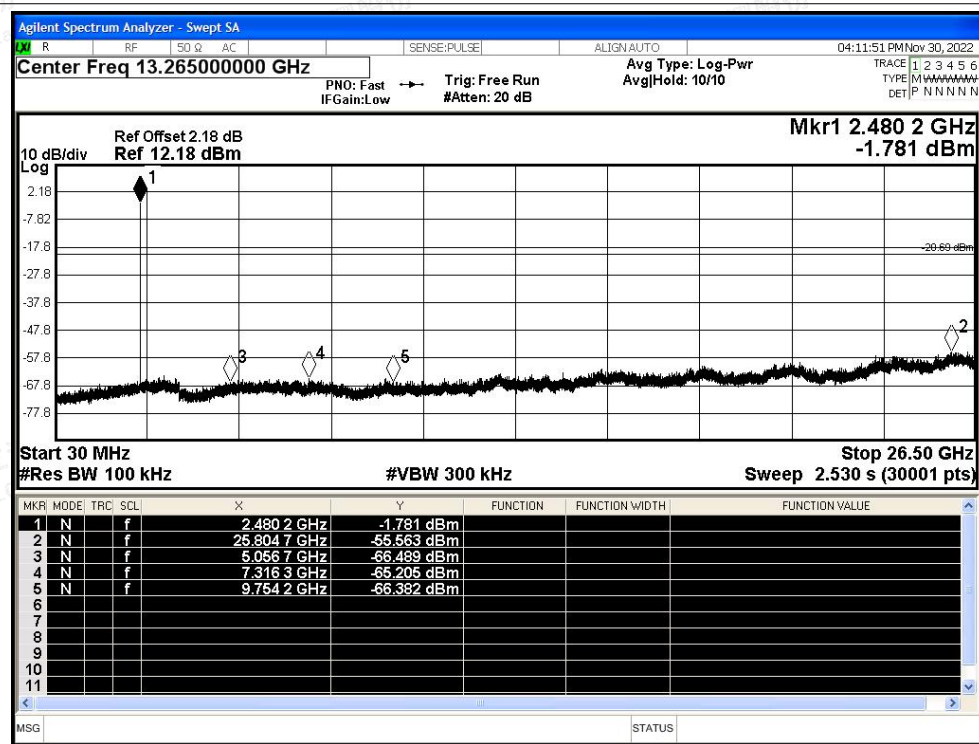




## Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



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



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B.6 Duty Cycle

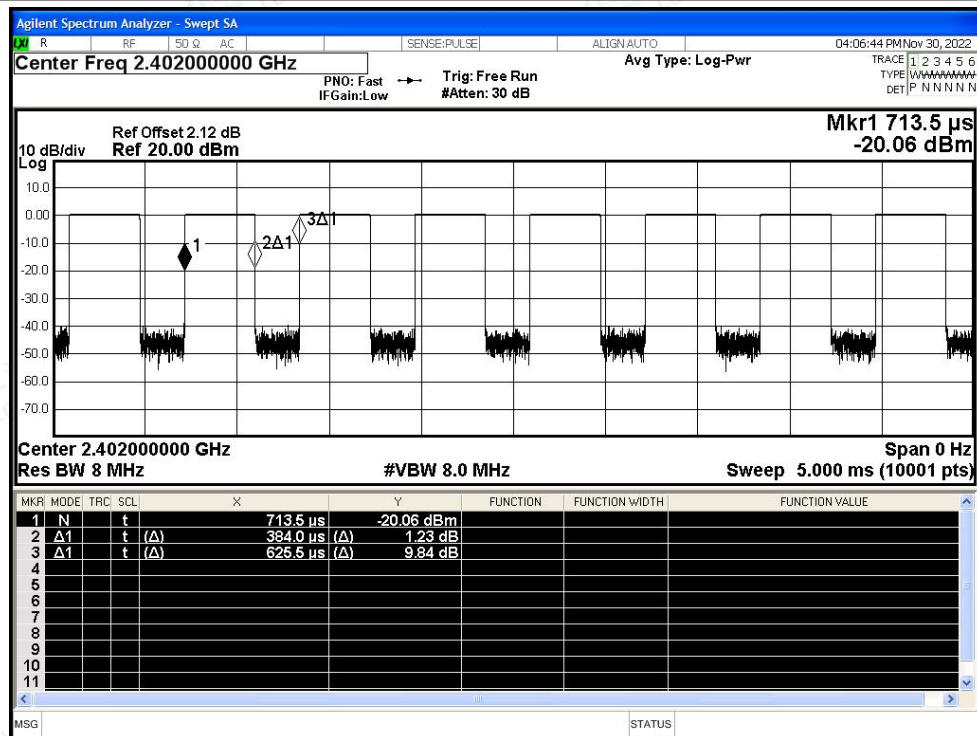
| Condition | Mode   | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|--------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | BLE 1M | 2402            | Ant1    | 61.39          | 2.12                   | 2.6       |
| NVNT      | BLE 1M | 2440            | Ant1    | 61.36          | 2.12                   | 2.61      |
| NVNT      | BLE 1M | 2480            | Ant1    | 61.36          | 2.12                   | 2.61      |



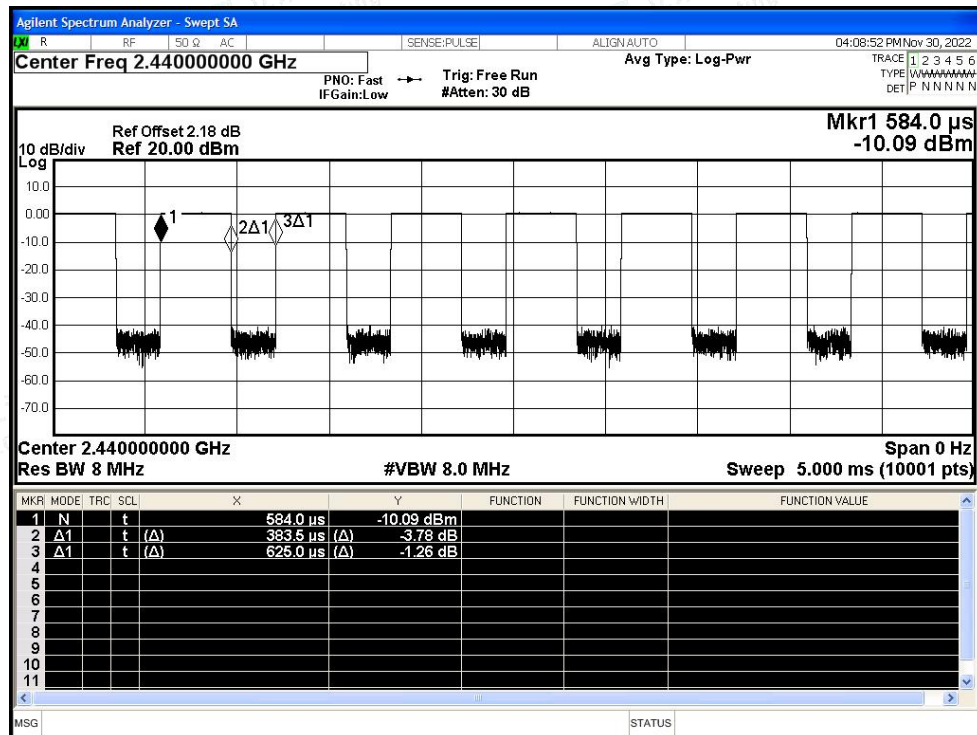


## Test Graphs

## Duty Cycle NVNT BLE 1M 2402MHz Ant1



## Duty Cycle NVNT BLE 1M 2440MHz Ant1



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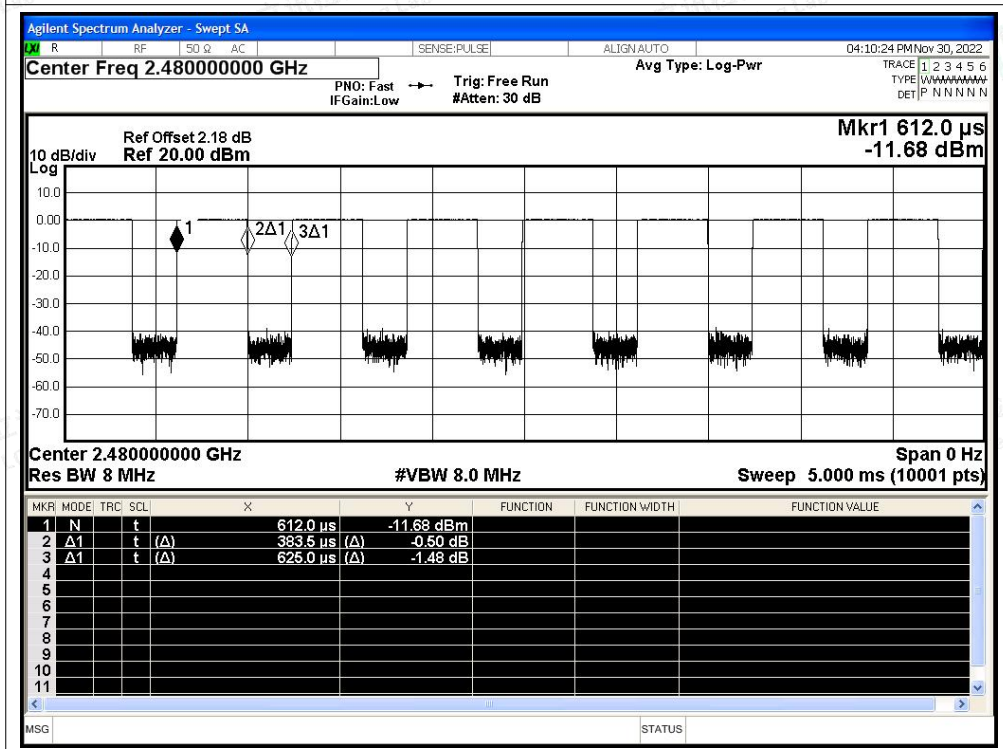
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## Duty Cycle NVNT BLE 1M 2480MHz Ant1



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## B.7 Restrict Band

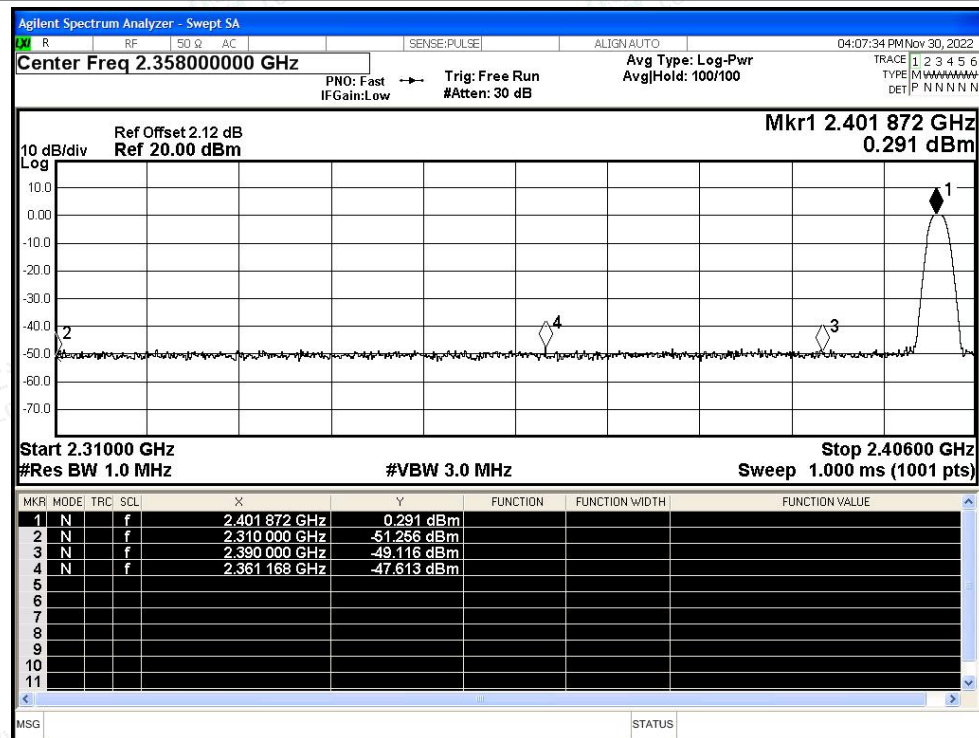
| Condition | Mode   | Frequency<br>(MHz) | Antenna | Spur Freq<br>(MHz) | Power<br>(dBm) | Gain<br>(dBi) | E<br>(dBuV/m) | Detector | Limit<br>(dBuV/m) | Verdict |
|-----------|--------|--------------------|---------|--------------------|----------------|---------------|---------------|----------|-------------------|---------|
| NVNT      | BLE 1M | 2402               | Ant1    | 2310               | -51.26         | 2             | 46            | Peak     | 74                | Pass    |
| NVNT      | BLE 1M | 2402               | Ant1    | 2310               | -59.65         | 2             | 37.61         | Average  | 54                | Pass    |
| NVNT      | BLE 1M | 2402               | Ant1    | 2361.168           | -47.61         | 2             | 49.65         | Peak     | 74                | Pass    |
| NVNT      | BLE 1M | 2402               | Ant1    | 2367.888           | -58.87         | 2             | 38.39         | Average  | 54                | Pass    |
| NVNT      | BLE 1M | 2402               | Ant1    | 2390               | -49.12         | 2             | 48.14         | Peak     | 74                | Pass    |
| NVNT      | BLE 1M | 2402               | Ant1    | 2390               | -59.36         | 2             | 37.9          | Average  | 54                | Pass    |
| NVNT      | BLE 1M | 2480               | Ant1    | 2483.5             | -49.36         | 2             | 47.9          | Peak     | 74                | Pass    |
| NVNT      | BLE 1M | 2480               | Ant1    | 2483.5             | -58.95         | 2             | 38.31         | Average  | 54                | Pass    |
| NVNT      | BLE 1M | 2480               | Ant1    | 2494.216           | -47.25         | 2             | 50.01         | Peak     | 74                | Pass    |
| NVNT      | BLE 1M | 2480               | Ant1    | 2484.064           | -58.4          | 2             | 38.86         | Average  | 54                | Pass    |
| NVNT      | BLE 1M | 2480               | Ant1    | 2500               | -49.72         | 2             | 47.54         | Peak     | 74                | Pass    |
| NVNT      | BLE 1M | 2480               | Ant1    | 2500               | -58.97         | 2             | 38.29         | Average  | 54                | Pass    |



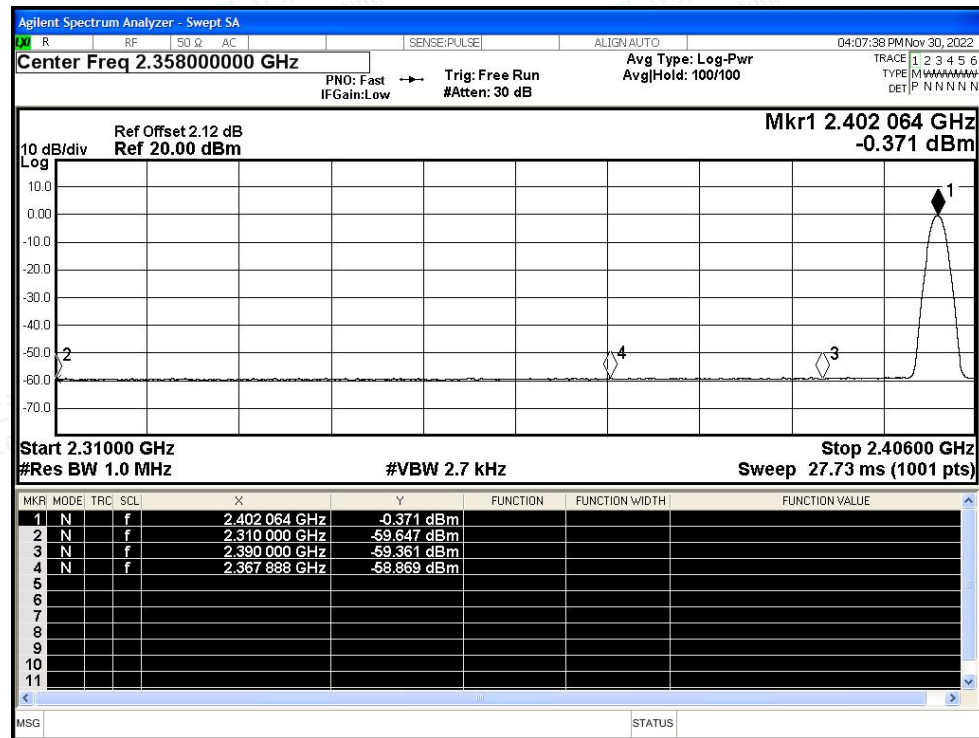


## Test Graphs

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



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



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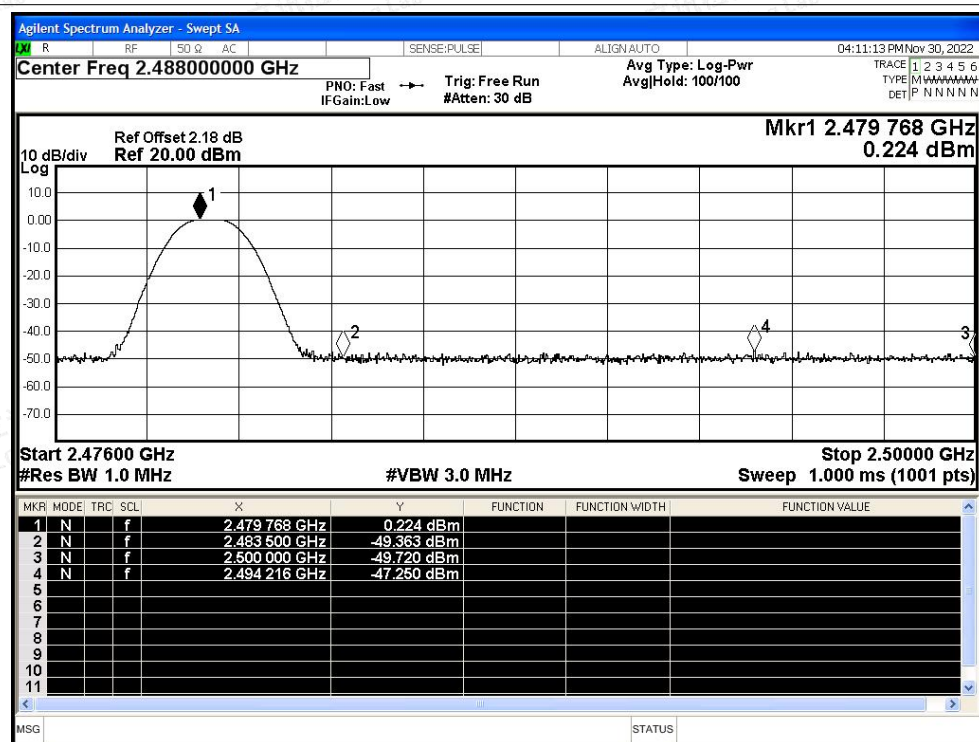
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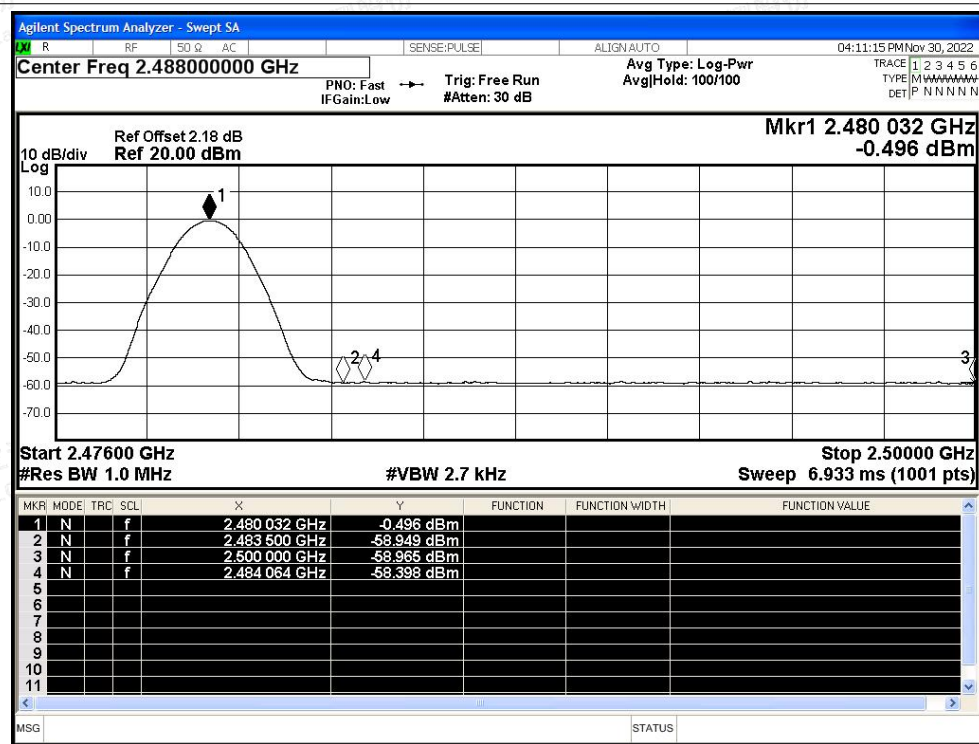




## Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



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



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