

## RF Test Data for Bluetooth LE (Conducted Measurements)

| General Description of EUT                                                                                                                    |                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| Product Name:                                                                                                                                 | Insta360 Mic Air Transmitter |
| Test Model:                                                                                                                                   | CINSABWB                     |
| Sample ID:                                                                                                                                    | HC-C-202512-0369-01-01-2#    |
| Environmental Conditions                                                                                                                      |                              |
| Temperature:                                                                                                                                  | 23.8℃                        |
| Relative Humidity:                                                                                                                            | 48%                          |
| Test Voltage:                                                                                                                                 | DC 3.87V                     |
| Test Engineer:                                                                                                                                | Lily. zhang                  |
| Note: For a more detailed features description, please refer to the report TBR-C-202512-0369-291<br>The report only show the worst case data. |                              |

## Contents

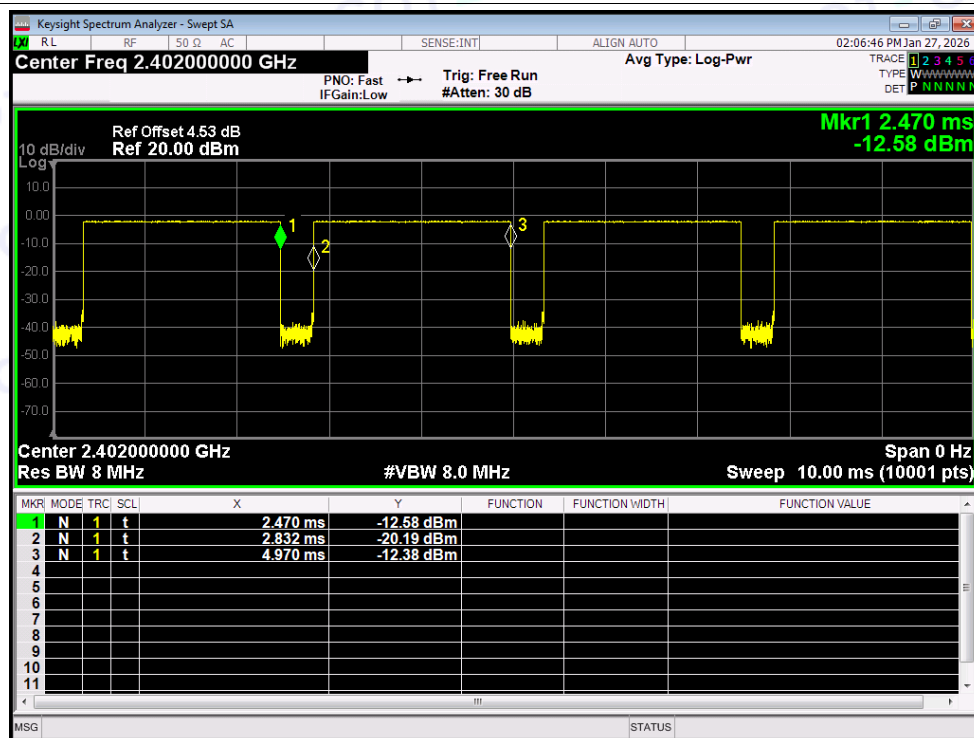
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## 1. Duty Cycle

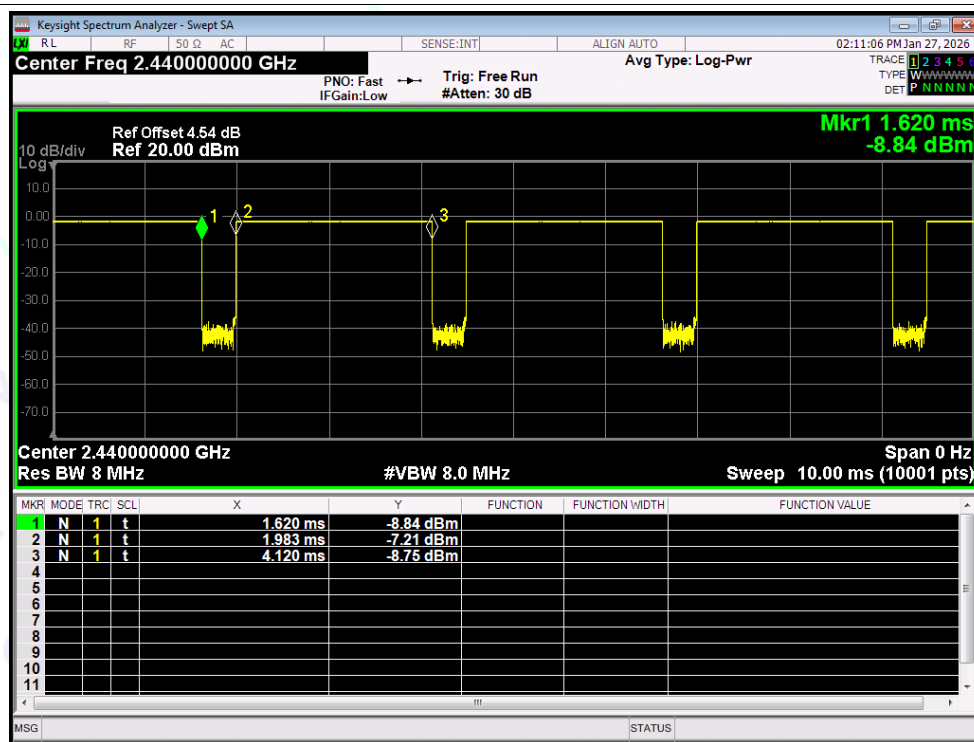
| Condition | Mode      | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|-----------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | BLE 1Mbps | 2402            | Ant1    | 85.52          | 0.68                   | 0.47      |
| NVNT      | BLE 1Mbps | 2440            | Ant1    | 85.48          | 0.68                   | 0.47      |
| NVNT      | BLE 1Mbps | 2480            | Ant1    | 85.52          | 0.68                   | 0.47      |
| NVNT      | BLE 2Mbps | 2402            | Ant1    | 86.56          | 0.63                   | 0.92      |
| NVNT      | BLE 2Mbps | 2440            | Ant1    | 86.56          | 0.63                   | 0.92      |
| NVNT      | BLE 2Mbps | 2480            | Ant1    | 86.48          | 0.63                   | 0.93      |

## Test Graphs

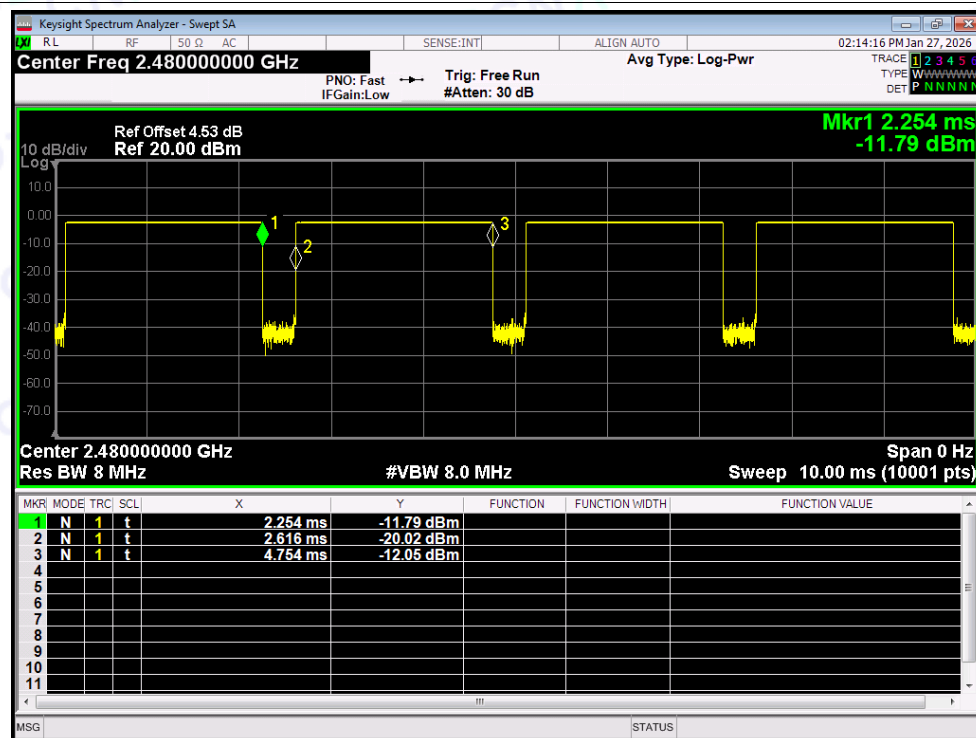
## Duty Cycle NVNT BLE 1Mbps 2402MHz Ant1



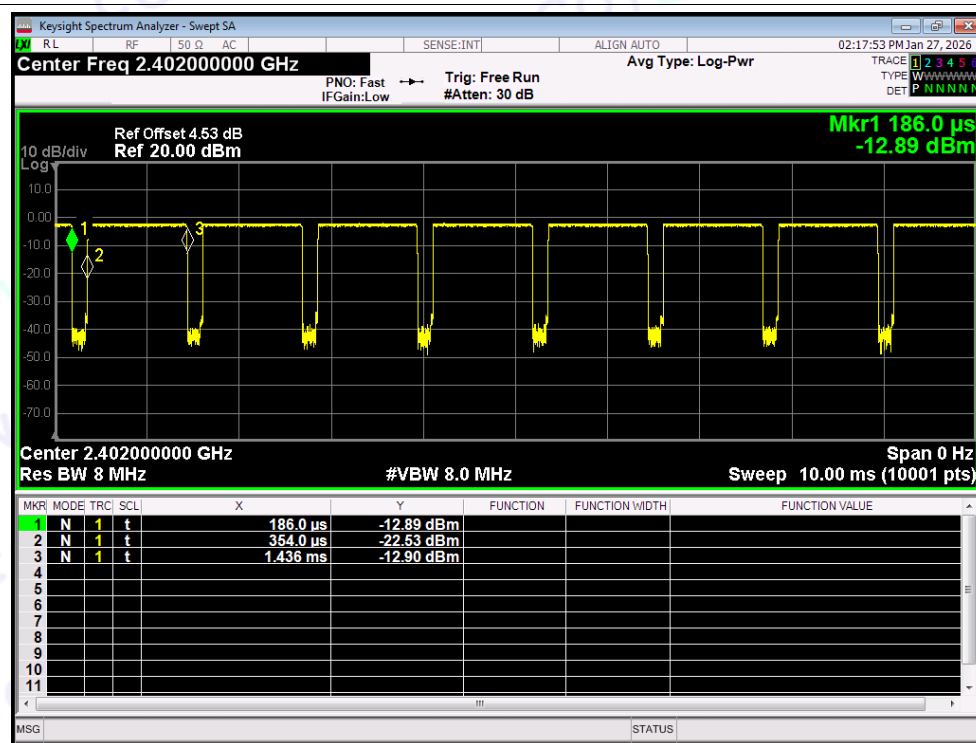
## Duty Cycle NVNT BLE 1Mbps 2440MHz Ant1



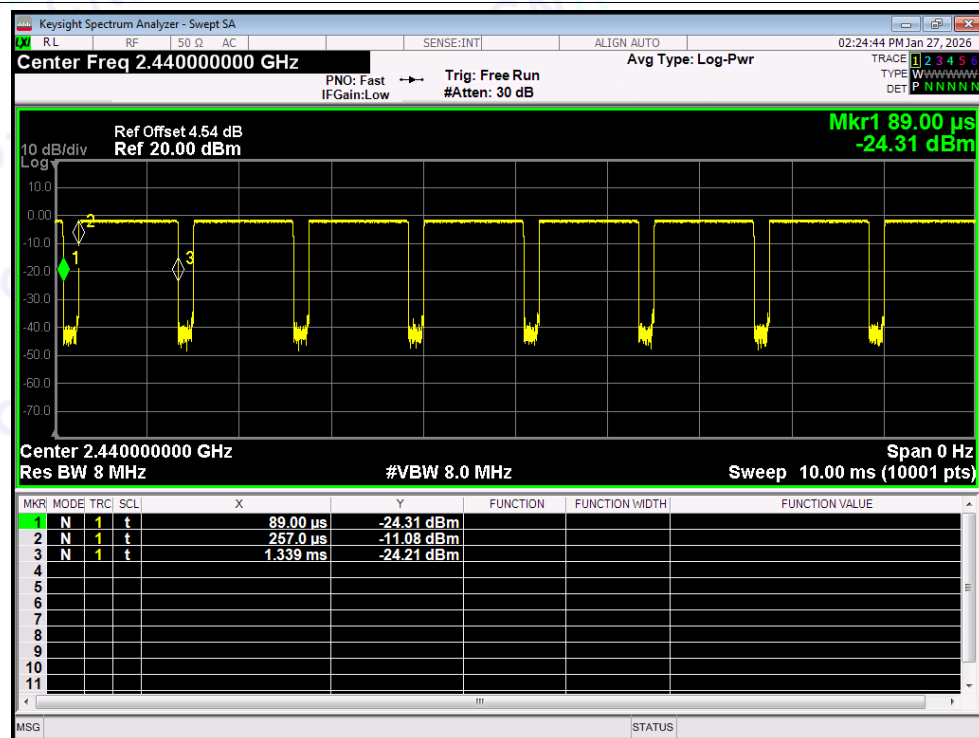
## Duty Cycle NVNT BLE 1Mbps 2480MHz Ant1



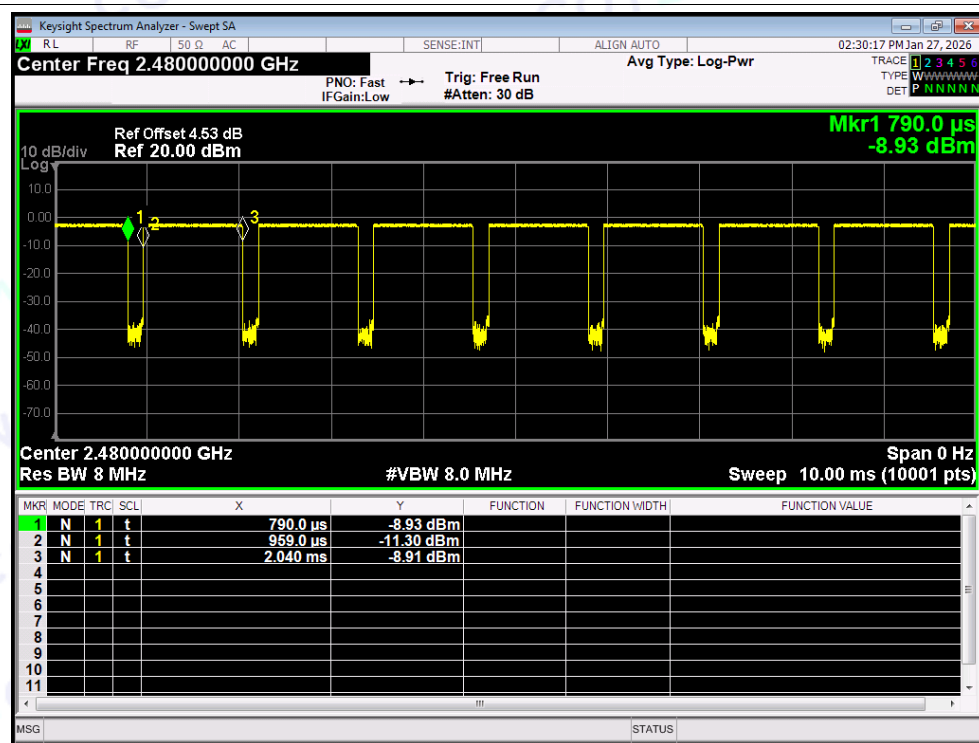
## Duty Cycle NVNT BLE 2Mbps 2402MHz Ant1



## Duty Cycle NVNT BLE 2Mbps 2440MHz Ant1



## Duty Cycle NVNT BLE 2Mbps 2480MHz Ant1

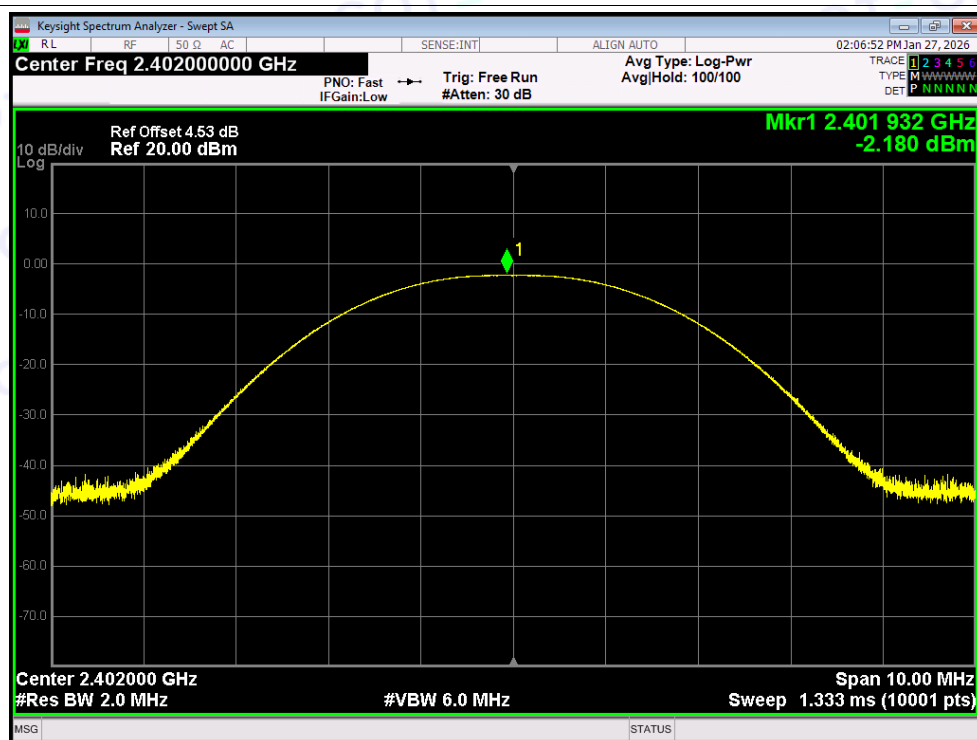


## 2. Maximum Conducted Output Power

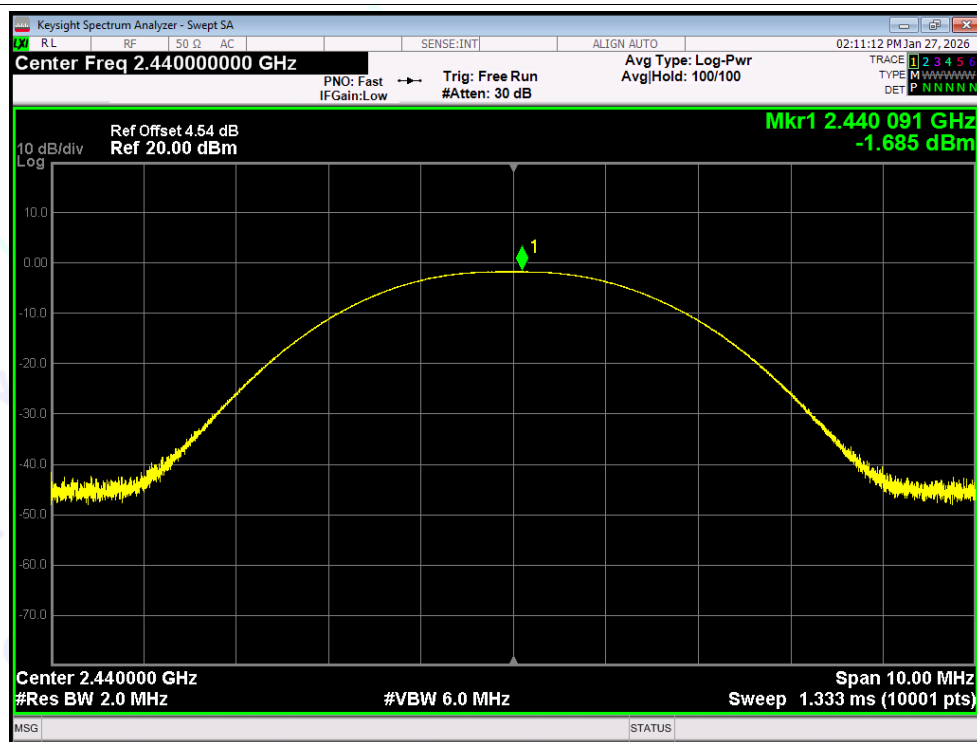
| Condition | Mode      | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|-----------|-----------------|---------|-----------------------|-------------|---------|
| NVNT      | BLE 1Mbps | 2402            | Ant1    | -2.18                 | 30          | Pass    |
| NVNT      | BLE 1Mbps | 2440            | Ant1    | -1.685                | 30          | Pass    |
| NVNT      | BLE 1Mbps | 2480            | Ant1    | -2.425                | 30          | Pass    |
| NVNT      | BLE 2Mbps | 2402            | Ant1    | -2.34                 | 30          | Pass    |
| NVNT      | BLE 2Mbps | 2440            | Ant1    | -1.825                | 30          | Pass    |
| NVNT      | BLE 2Mbps | 2480            | Ant1    | -2.582                | 30          | Pass    |

## Test Graphs

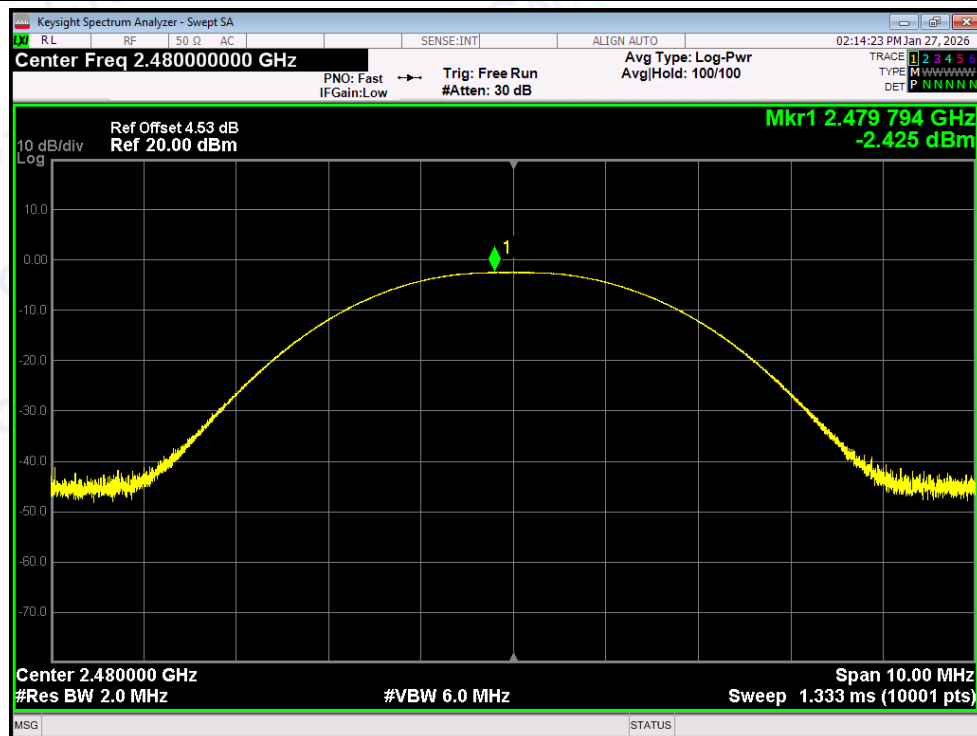
## Power NVNT BLE 1Mbps 2402MHz Ant1



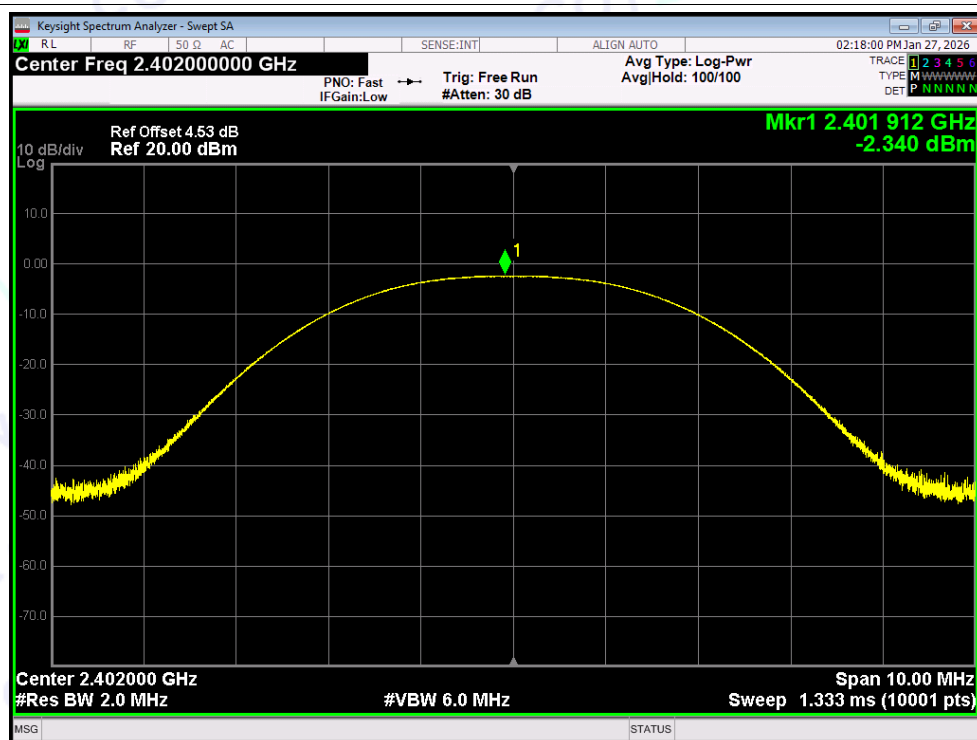
## Power NVNT BLE 1Mbps 2440MHz Ant1



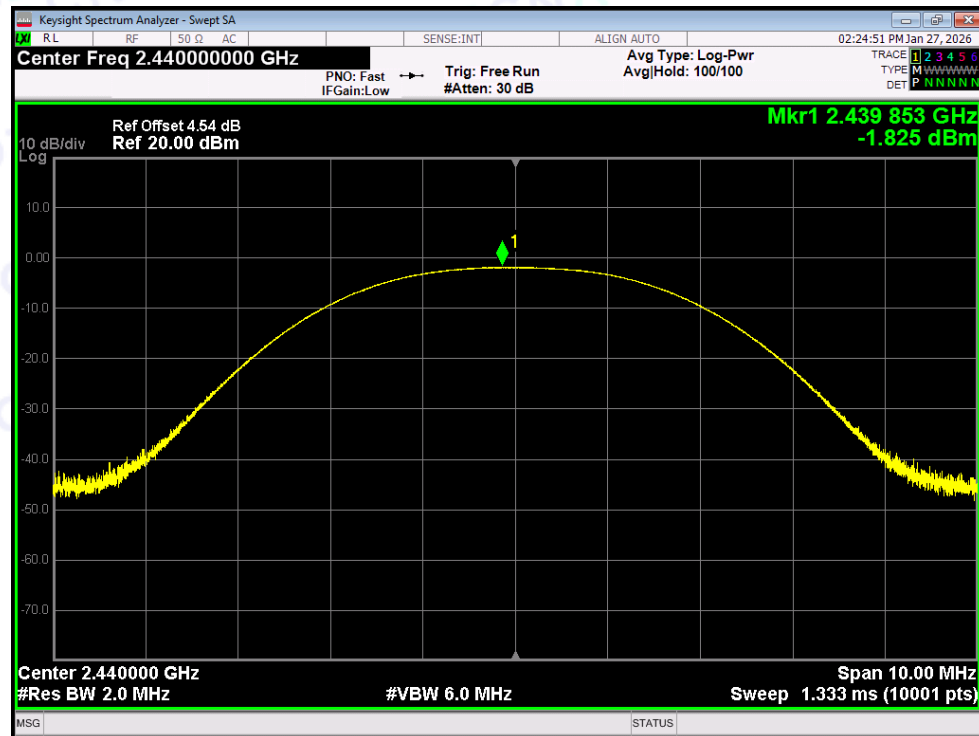
Power NVNT BLE 1Mbps 2480MHz Ant1



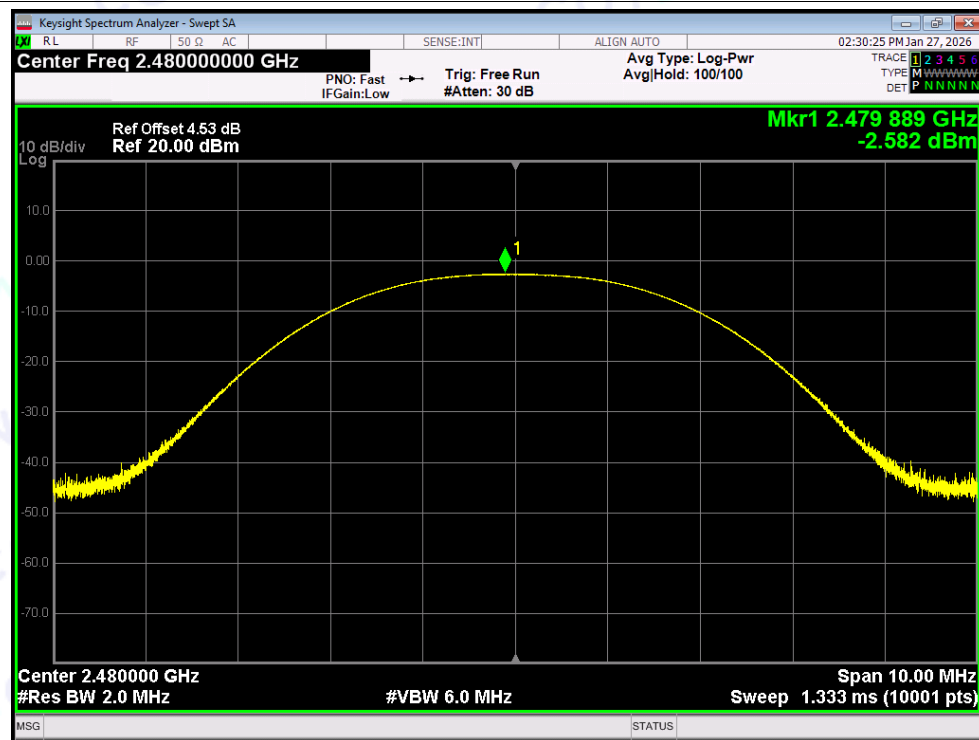
Power NVNT BLE 2Mbps 2402MHz Ant1



Power NVNT BLE 2Mbps 2440MHz Ant1



Power NVNT BLE 2Mbps 2480MHz Ant1

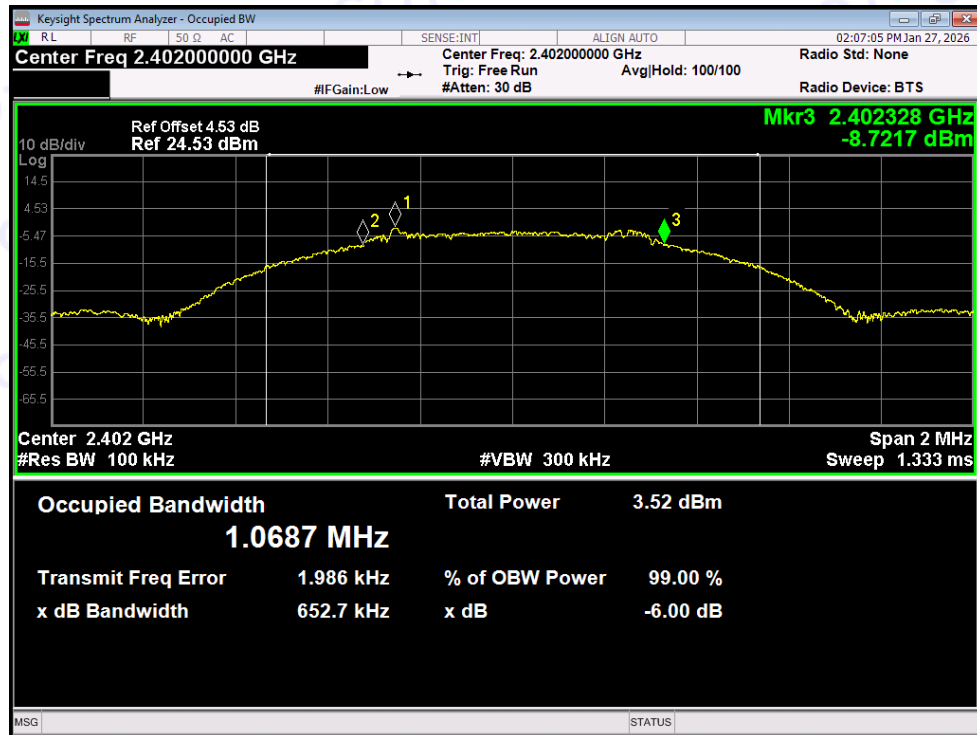


### 3. -6dB Bandwidth

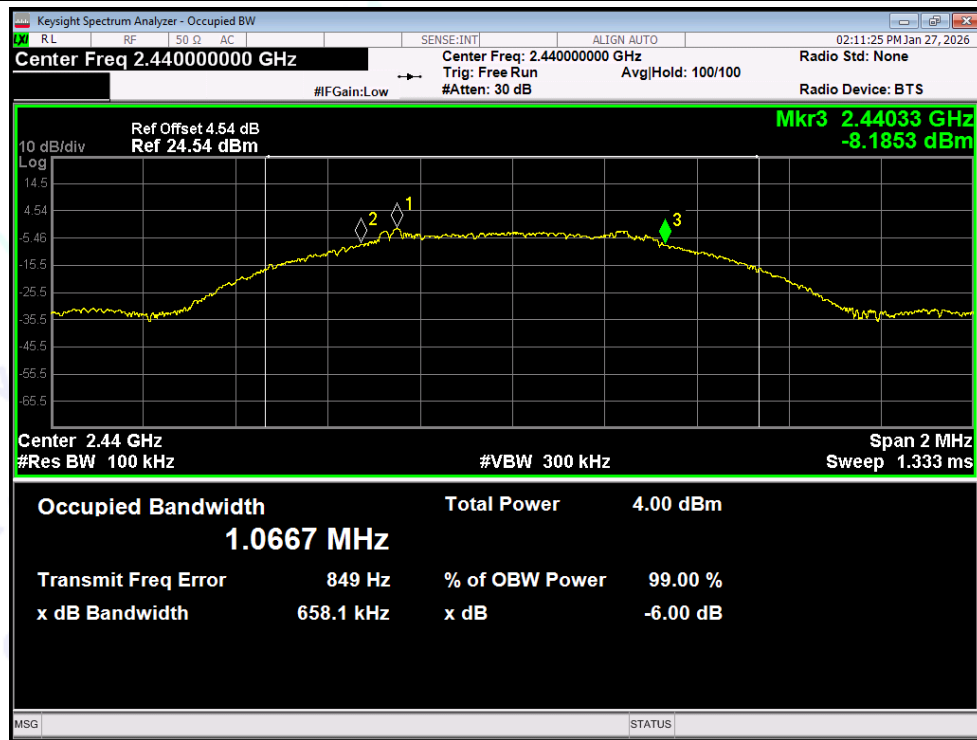
| Condition | Mode      | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|-----------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | BLE 1Mbps | 2402            | Ant1    | 0.65                  | 0.5                         | Pass    |
| NVNT      | BLE 1Mbps | 2440            | Ant1    | 0.66                  | 0.5                         | Pass    |
| NVNT      | BLE 1Mbps | 2480            | Ant1    | 0.67                  | 0.5                         | Pass    |
| NVNT      | BLE 2Mbps | 2402            | Ant1    | 1.13                  | 0.5                         | Pass    |
| NVNT      | BLE 2Mbps | 2440            | Ant1    | 1.12                  | 0.5                         | Pass    |
| NVNT      | BLE 2Mbps | 2480            | Ant1    | 1.11                  | 0.5                         | Pass    |

## Test Graphs

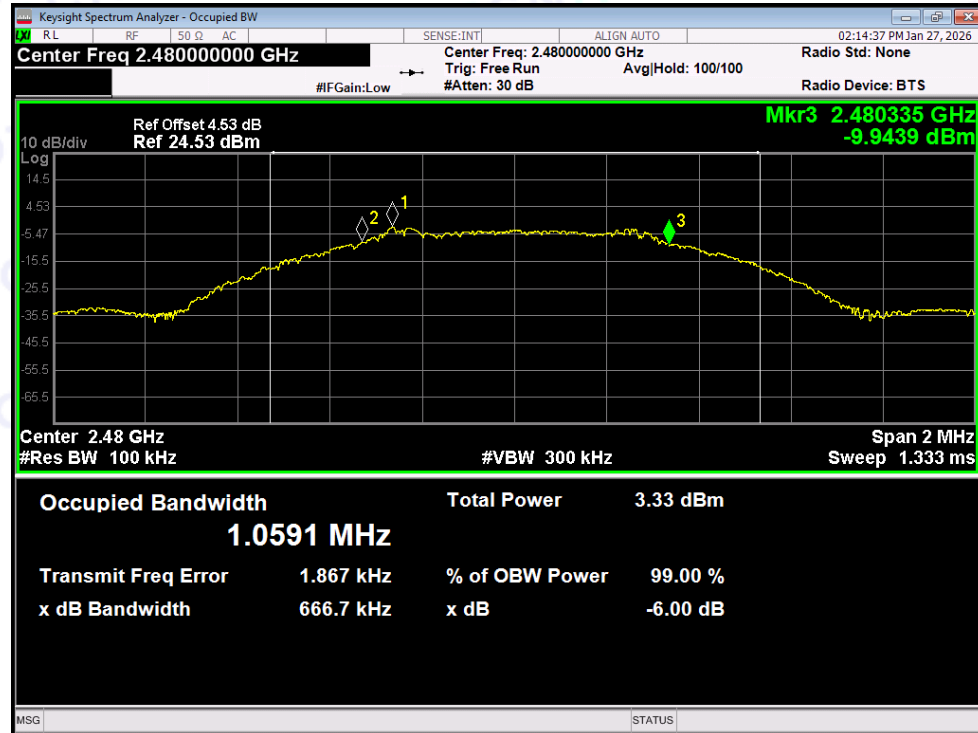
## -6dB Bandwidth NVNT BLE 1Mbps 2402MHz Ant1



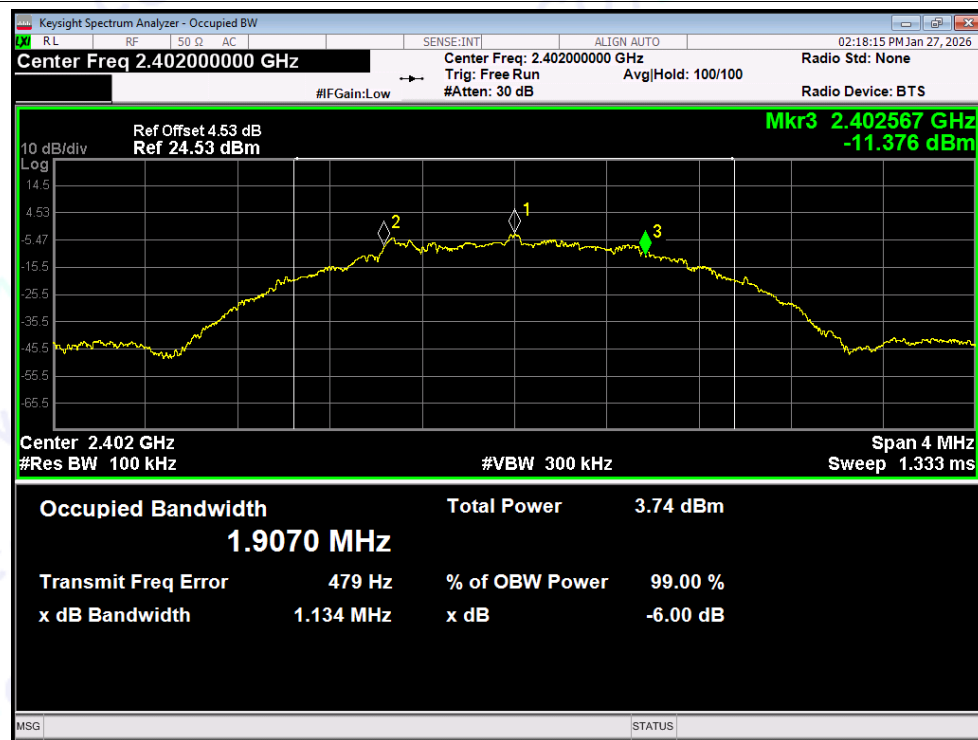
## -6dB Bandwidth NVNT BLE 1Mbps 2440MHz Ant1



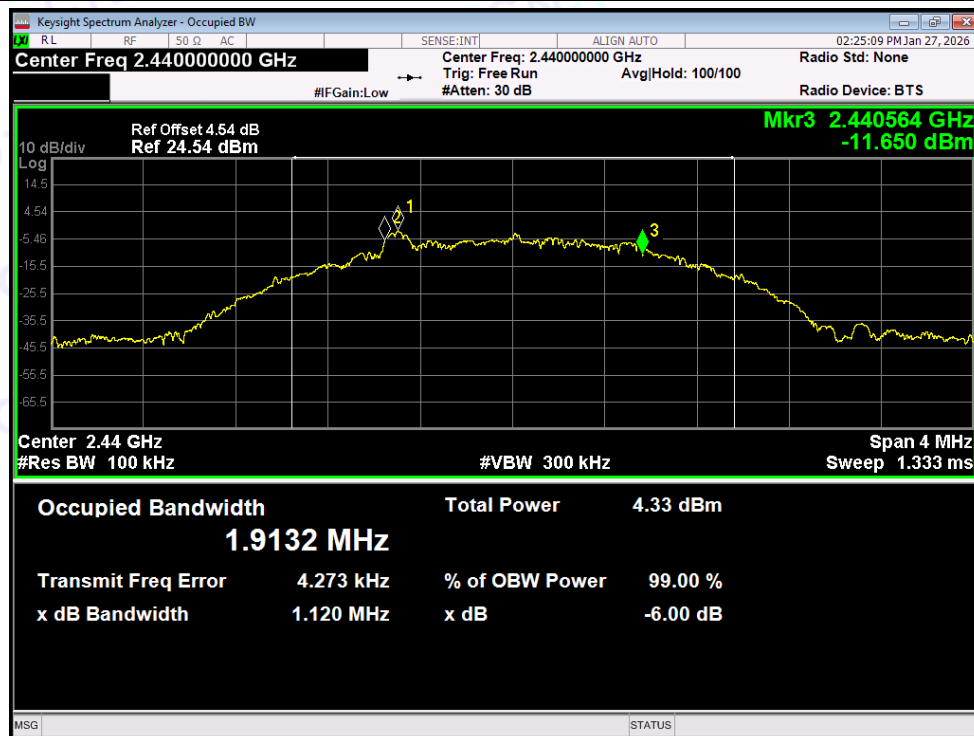
## -6dB Bandwidth NVNT BLE 1Mbps 2480MHz Ant1



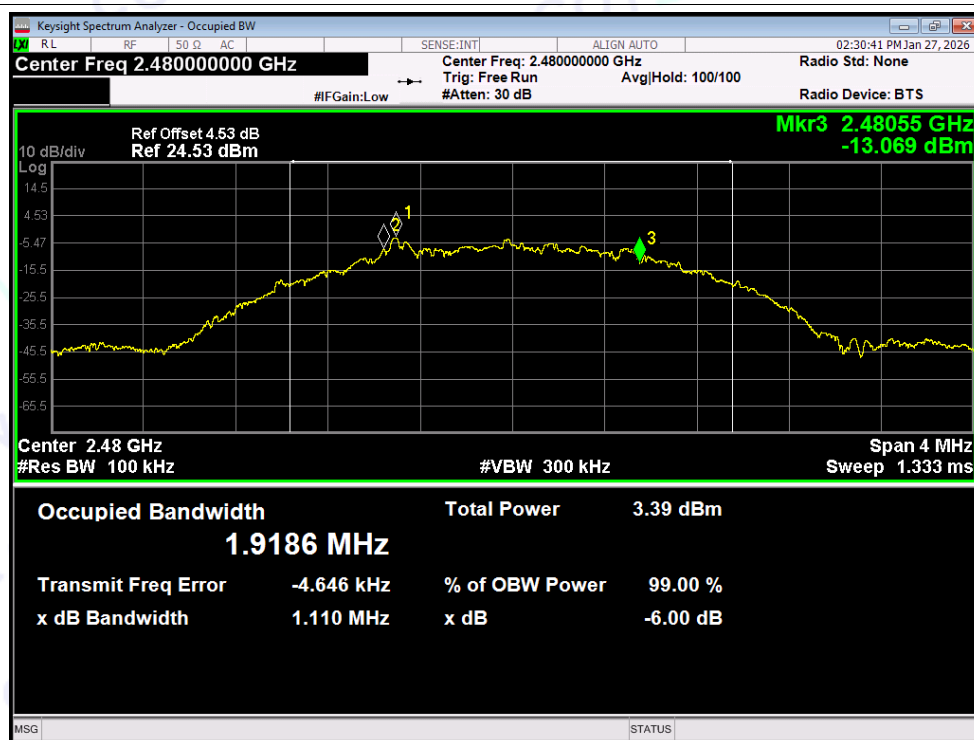
## -6dB Bandwidth NVNT BLE 2Mbps 2402MHz Ant1



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



## -6dB Bandwidth NVNT BLE 2Mbps 2480MHz Ant1

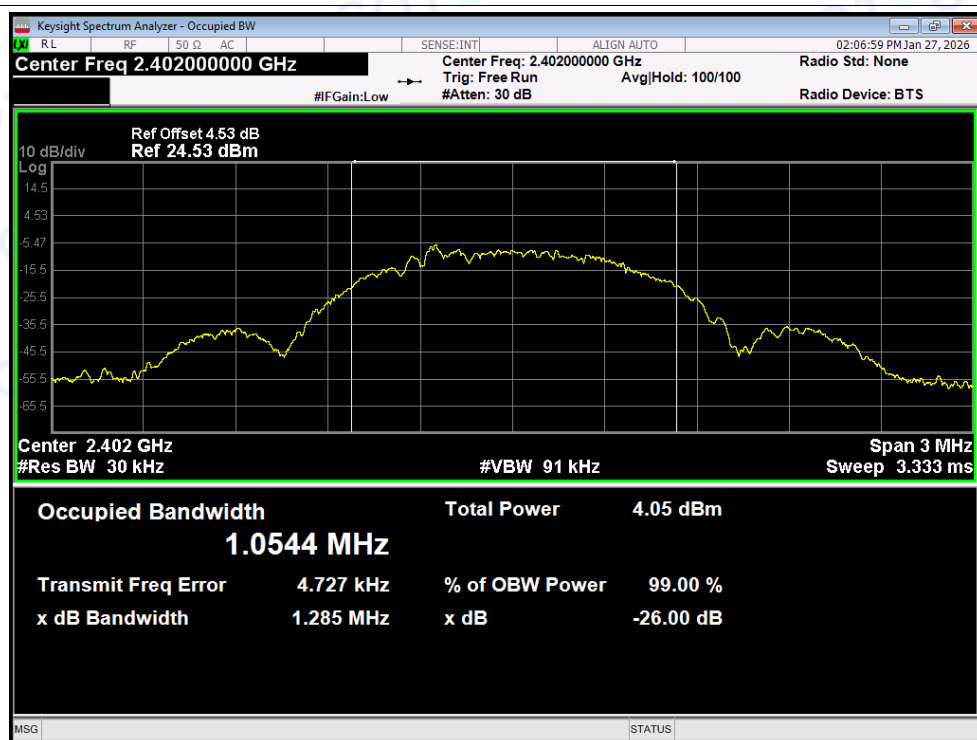


## 4. Occupied Channel Bandwidth

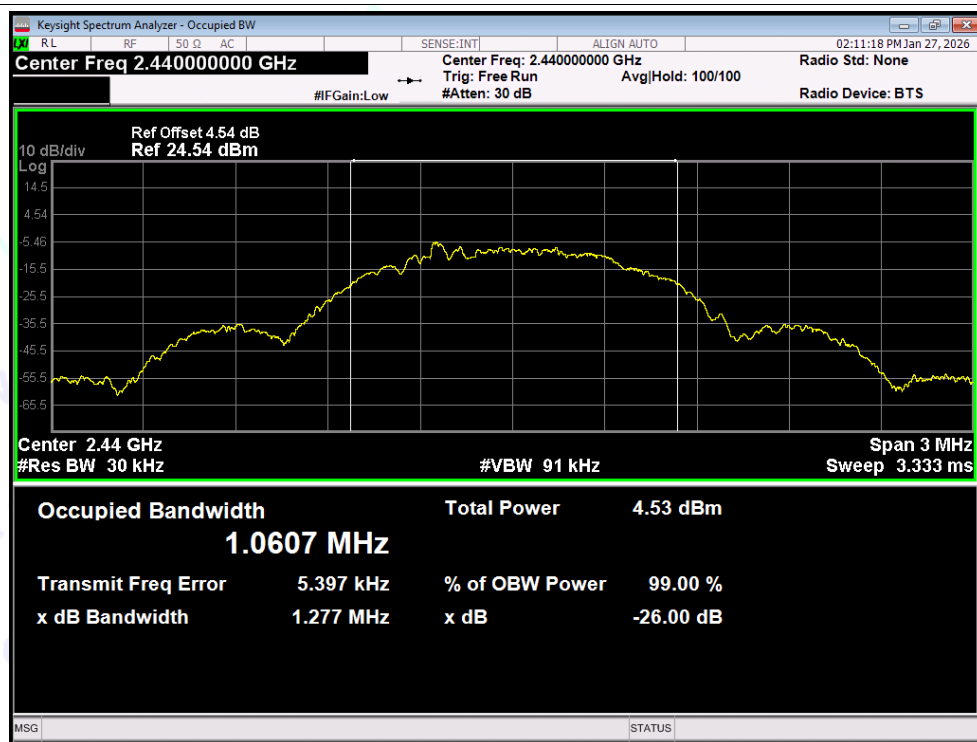
| Condition | Mode      | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|-----------|-----------------|---------|---------------|
| NVNT      | BLE 1Mbps | 2402            | Ant1    | 1.054         |
| NVNT      | BLE 1Mbps | 2440            | Ant1    | 1.061         |
| NVNT      | BLE 1Mbps | 2480            | Ant1    | 1.059         |
| NVNT      | BLE 2Mbps | 2402            | Ant1    | 1.925         |
| NVNT      | BLE 2Mbps | 2440            | Ant1    | 1.927         |
| NVNT      | BLE 2Mbps | 2480            | Ant1    | 1.949         |

## Test Graphs

## OBW NVNT BLE 1Mbps 2402MHz Ant1



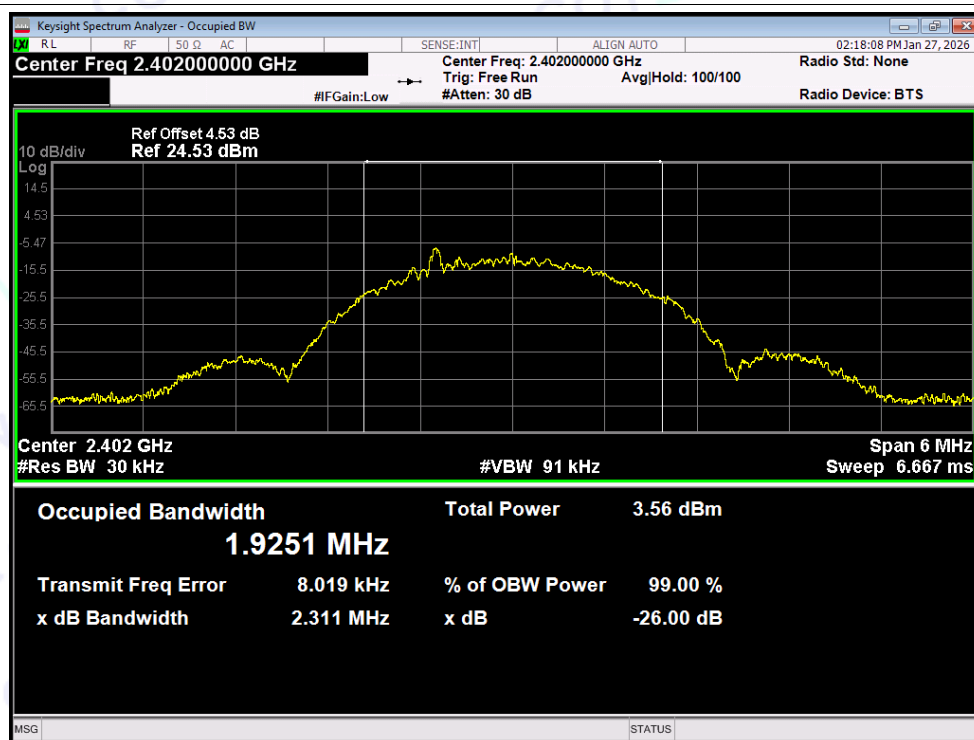
## OBW NVNT BLE 1Mbps 2440MHz Ant1



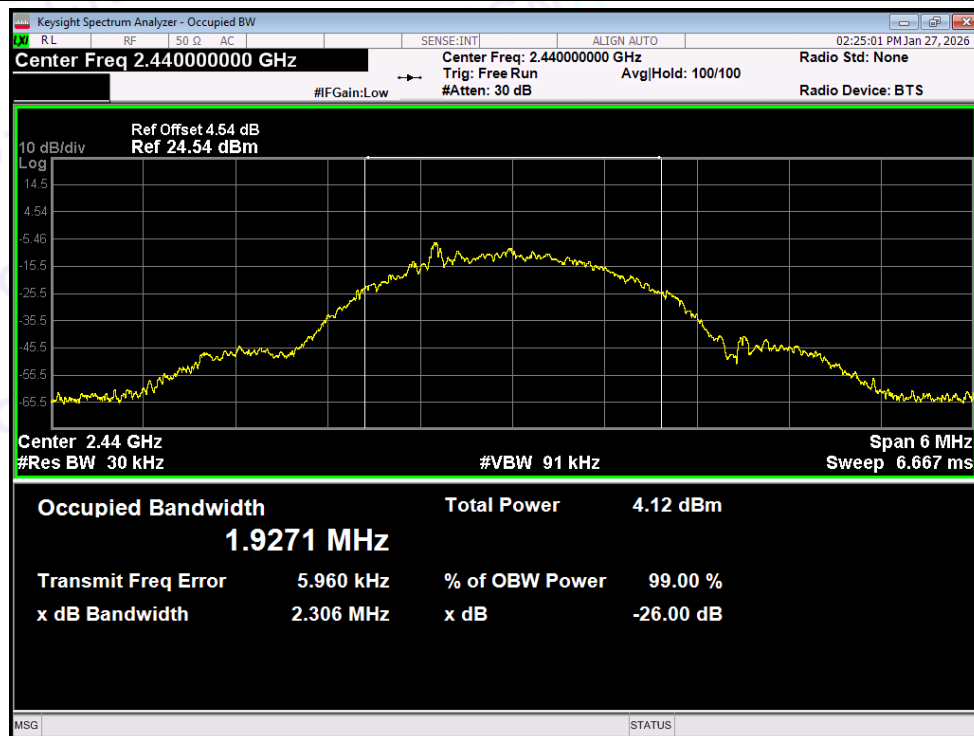
## OBW NVNT BLE 1Mbps 2480MHz Ant1



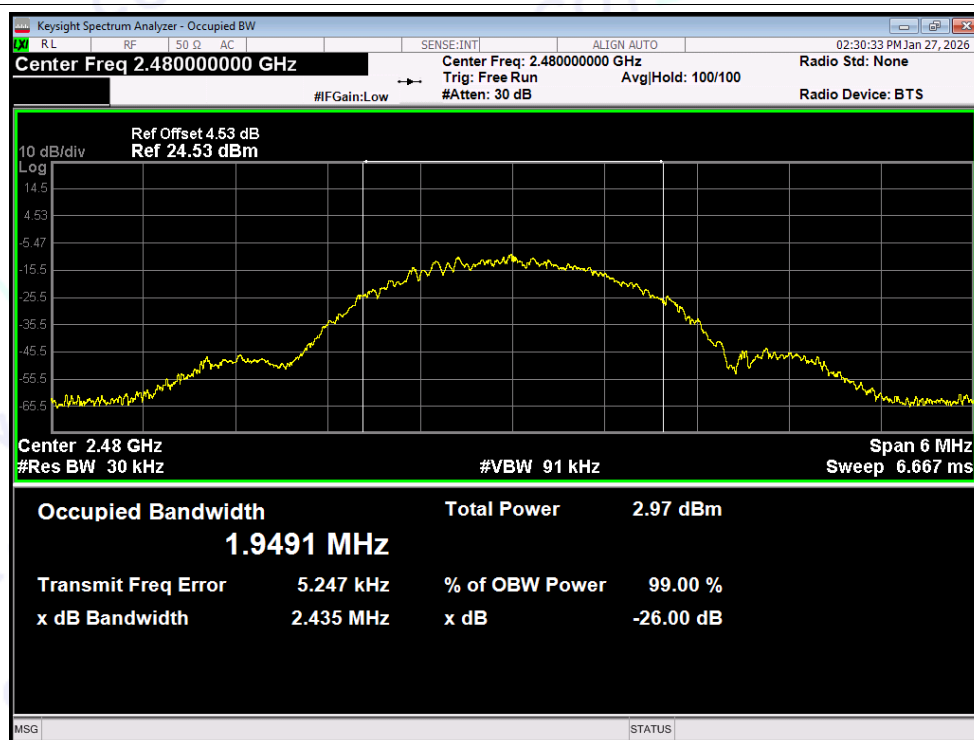
## OBW NVNT BLE 2Mbps 2402MHz Ant1



## OBW NVNT BLE 2Mbps 2440MHz Ant1



## OBW NVNT BLE 2Mbps 2480MHz Ant1

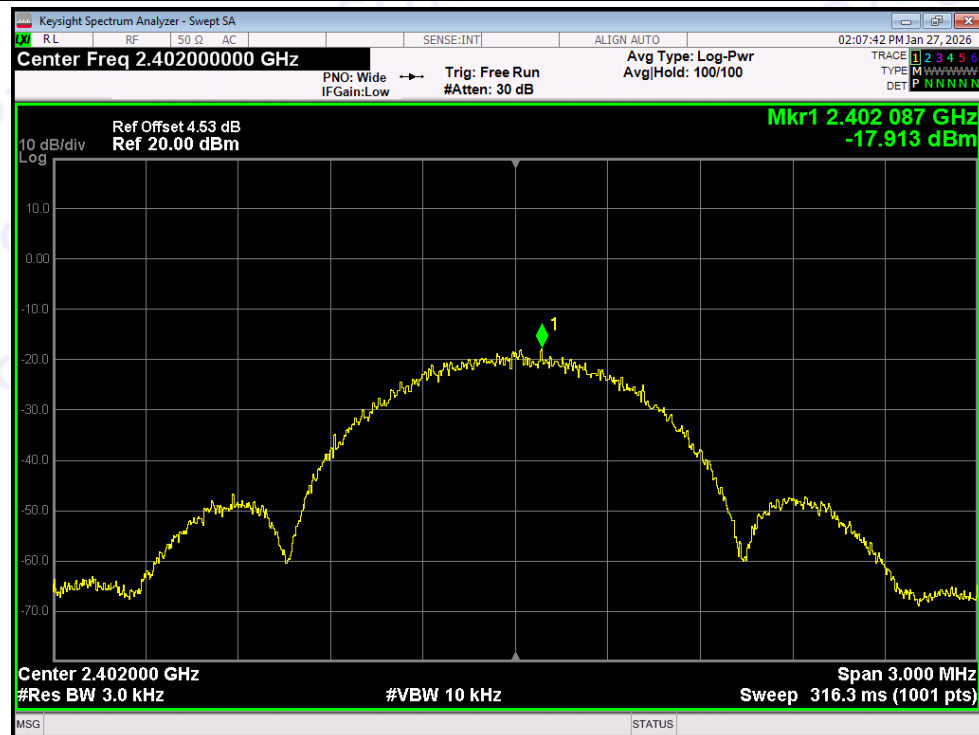


## 5. Maximum Power Spectral Density Level

| Condition | Mode      | Frequency (MHz) | Antenna | Max PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|-----------|-----------------|---------|--------------------|------------------|---------|
| NVNT      | BLE 1Mbps | 2402            | Ant1    | -17.913            | 8                | Pass    |
| NVNT      | BLE 1Mbps | 2440            | Ant1    | -17.335            | 8                | Pass    |
| NVNT      | BLE 1Mbps | 2480            | Ant1    | -18.128            | 8                | Pass    |
| NVNT      | BLE 2Mbps | 2402            | Ant1    | -21.081            | 8                | Pass    |
| NVNT      | BLE 2Mbps | 2440            | Ant1    | -20.869            | 8                | Pass    |
| NVNT      | BLE 2Mbps | 2480            | Ant1    | -21.519            | 8                | Pass    |

## Test Graphs

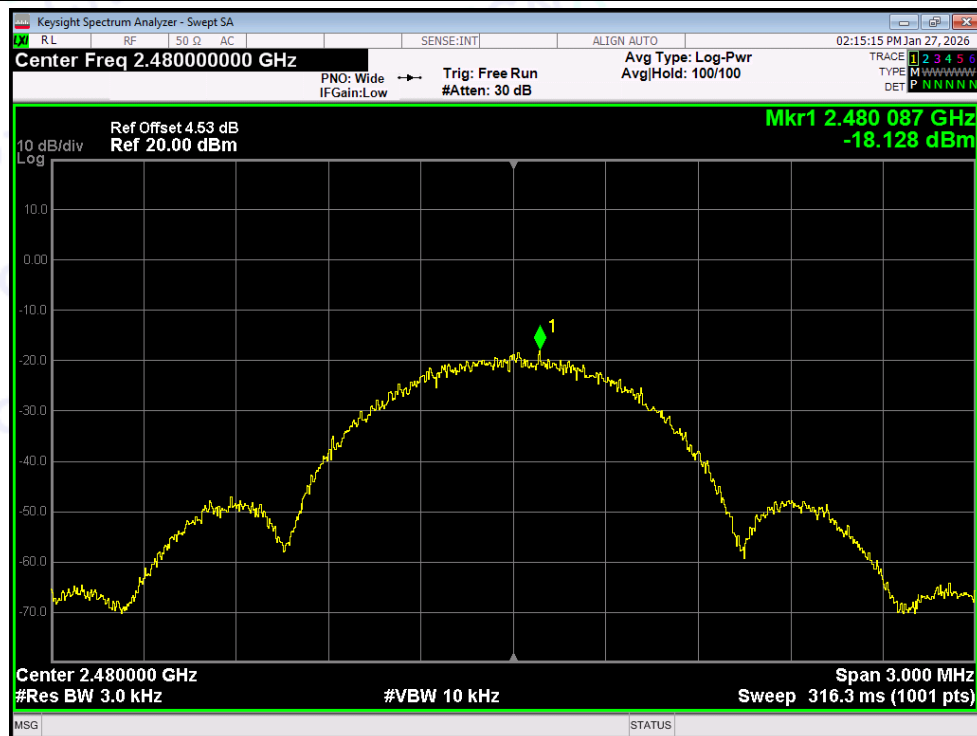
## PSD NVNT BLE 1Mbps 2402MHz Ant1



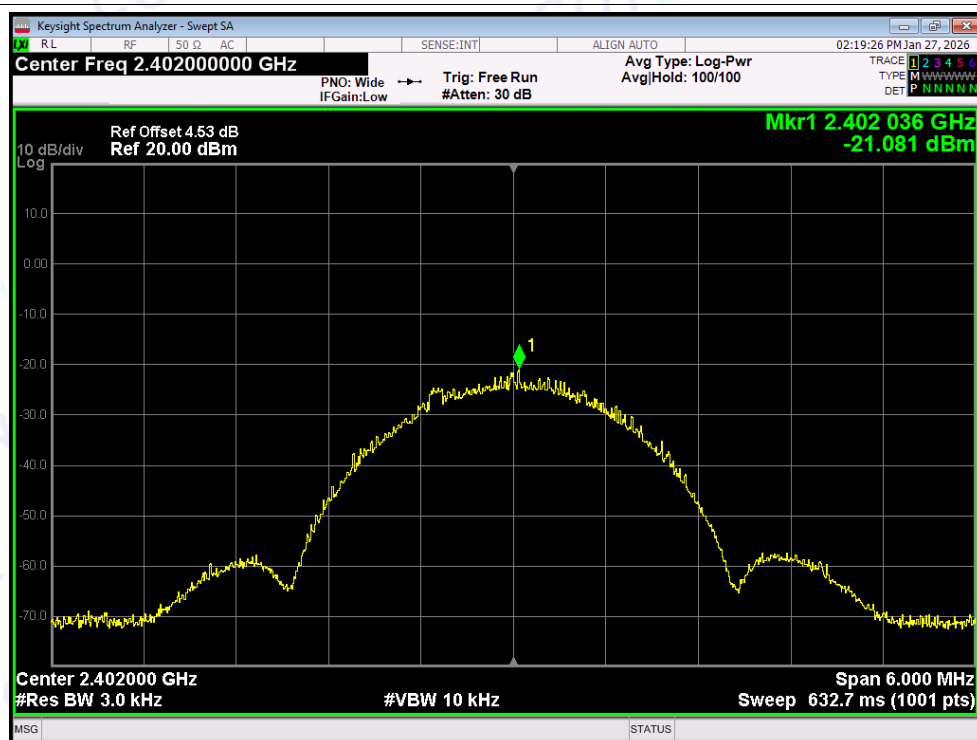
## PSD NVNT BLE 1Mbps 2440MHz Ant1



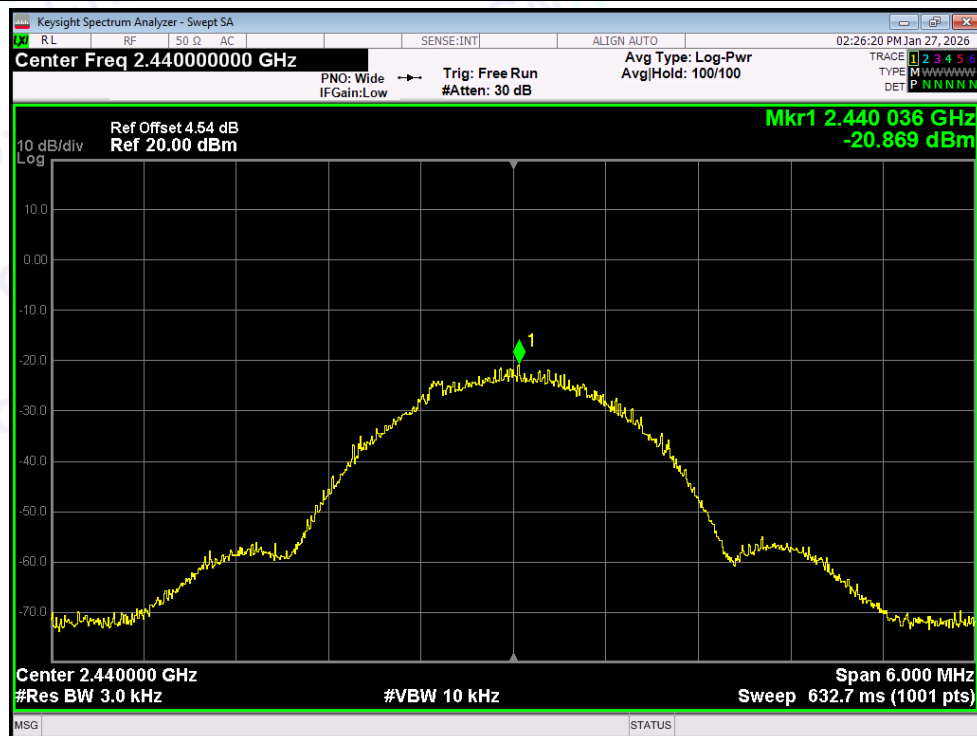
PSD NVNT BLE 1Mbps 2480MHz Ant1



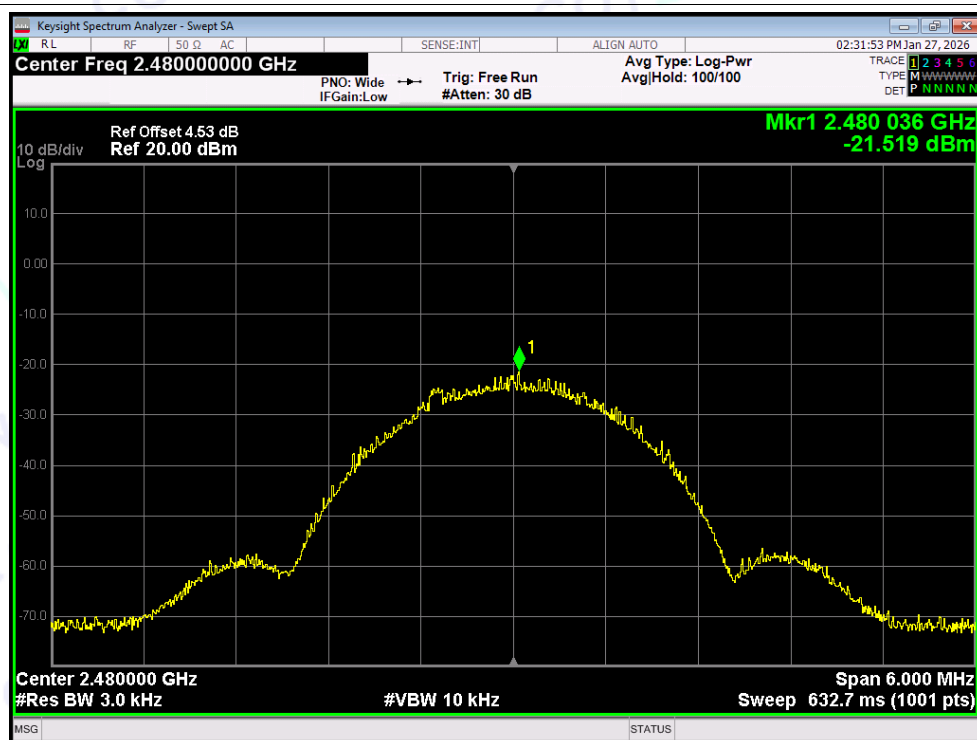
PSD NVNT BLE 2Mbps 2402MHz Ant1



PSD NVNT BLE 2Mbps 2440MHz Ant1



PSD NVNT BLE 2Mbps 2480MHz Ant1

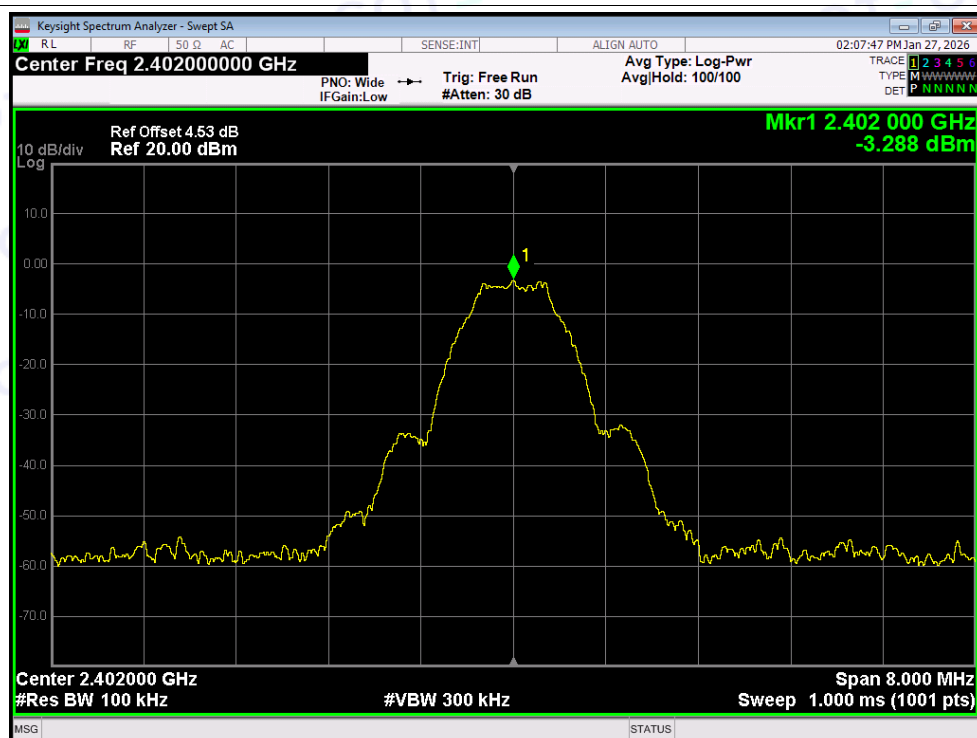


## 6. Band Edge

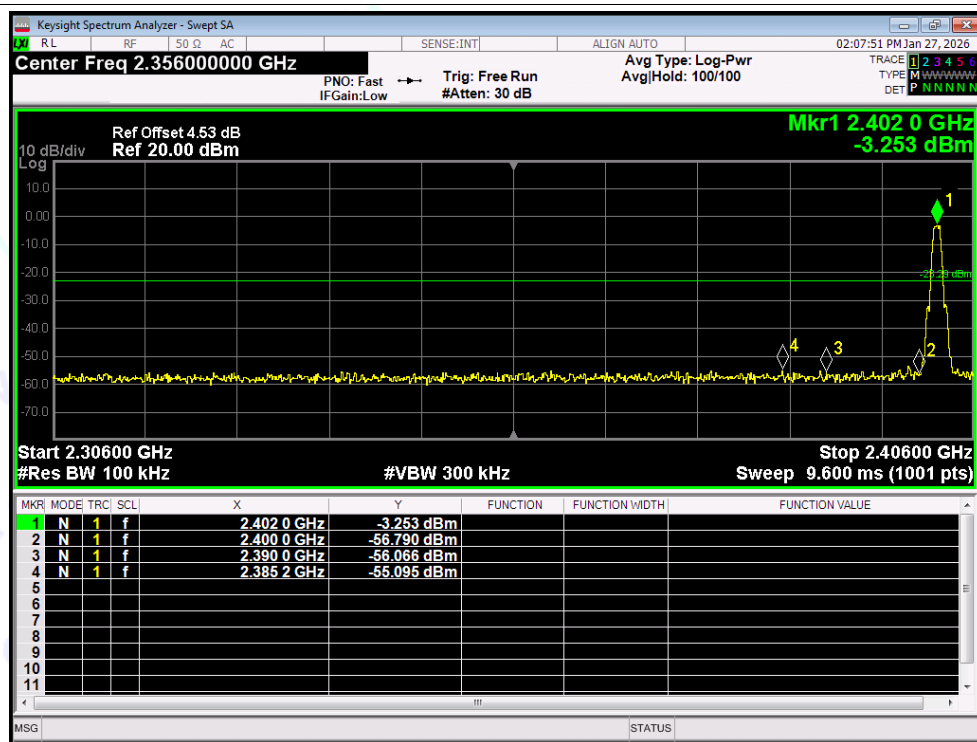
| Condition | Mode      | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|-----------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | BLE 1Mbps | 2402            | Ant1    | -51.81          | -20         | Pass    |
| NVNT      | BLE 1Mbps | 2480            | Ant1    | -50.94          | -20         | Pass    |
| NVNT      | BLE 2Mbps | 2402            | Ant1    | -51.18          | -20         | Pass    |
| NVNT      | BLE 2Mbps | 2480            | Ant1    | -50.91          | -20         | Pass    |

## Test Graphs

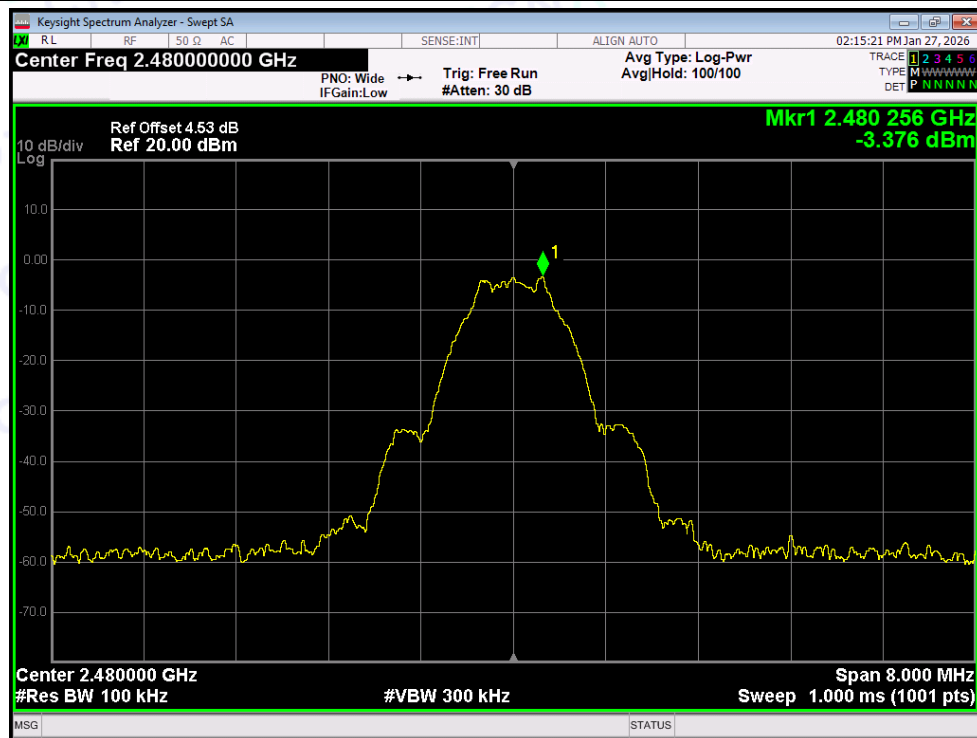
## Band Edge NVNT BLE 1Mbps 2402MHz Ant1 Ref



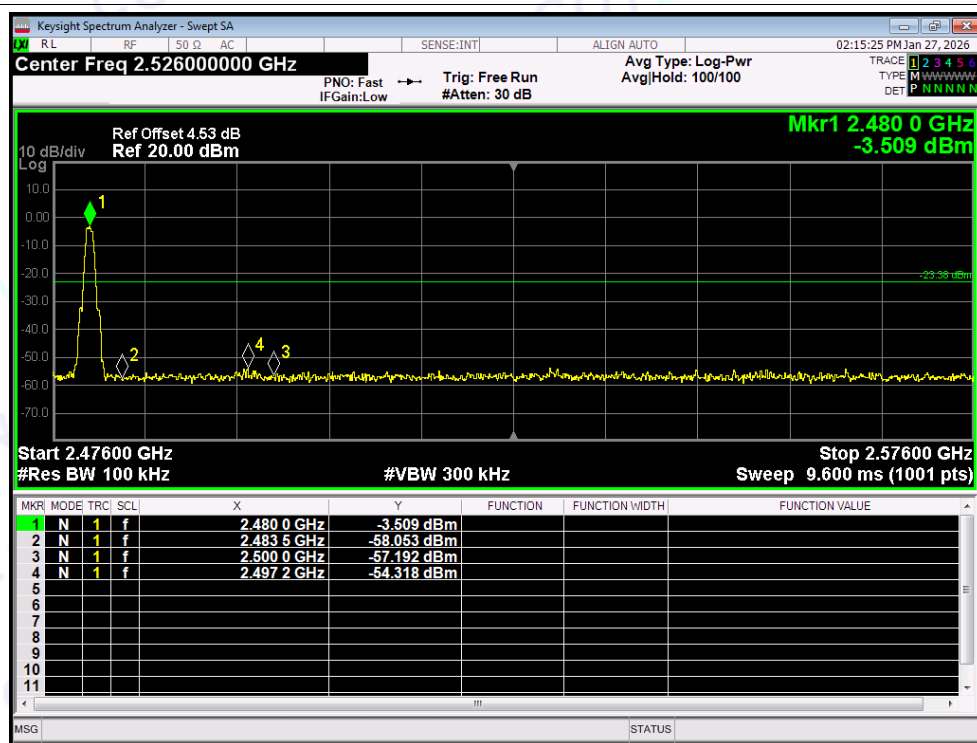
## Band Edge NVNT BLE 1Mbps 2402MHz Ant1 Emission



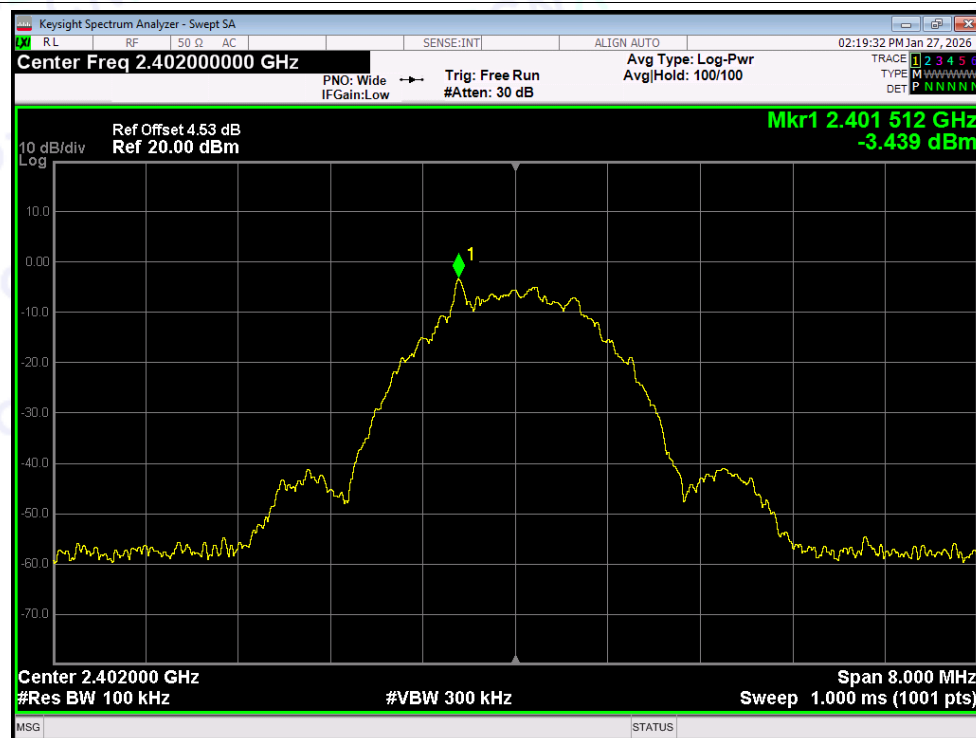
## Band Edge NVNT BLE 1Mbps 2480MHz Ant1 Ref



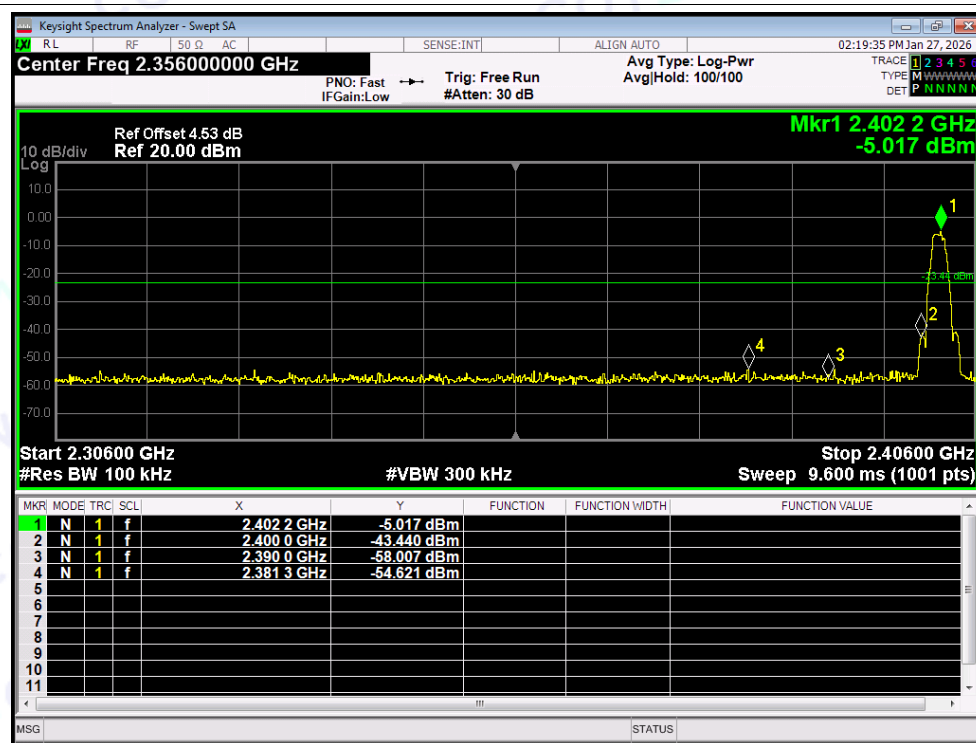
## Band Edge NVNT BLE 1Mbps 2480MHz Ant1 Emission



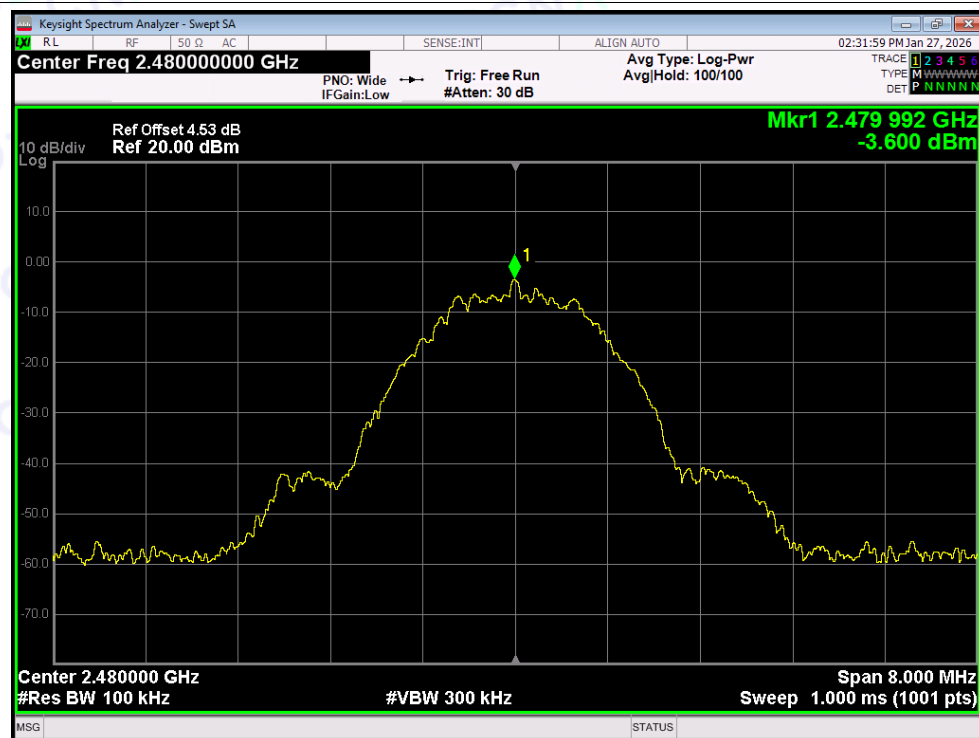
## Band Edge NVNT BLE 2Mbps 2402MHz Ant1 Ref



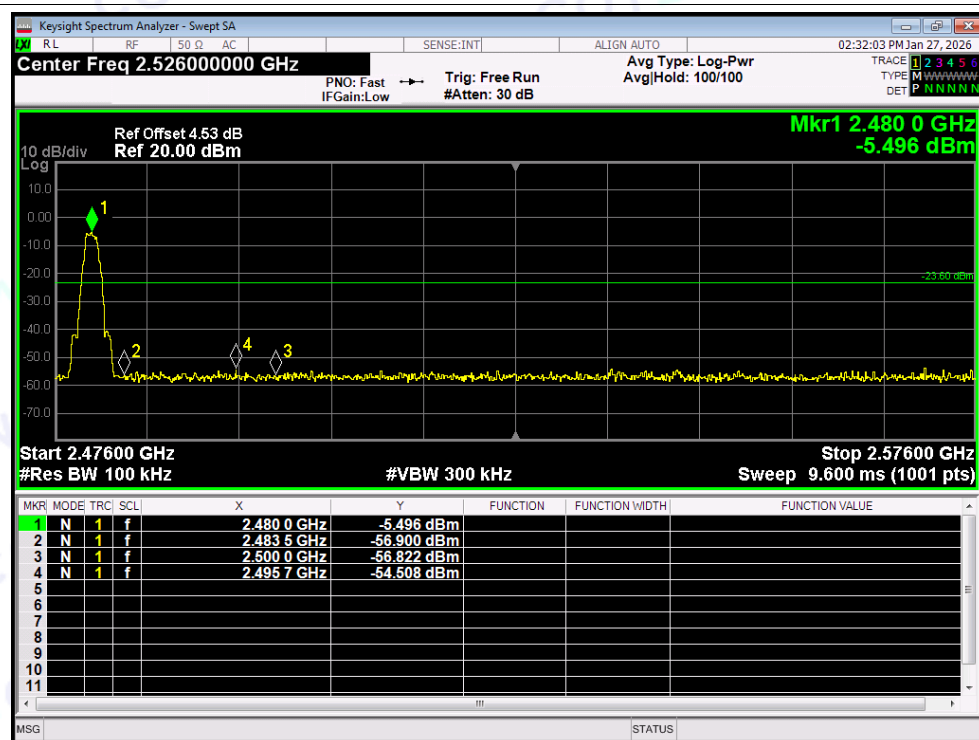
## Band Edge NVNT BLE 2Mbps 2402MHz Ant1 Emission



## Band Edge NVNT BLE 2Mbps 2480MHz Ant1 Ref



## Band Edge NVNT BLE 2Mbps 2480MHz Ant1 Emission

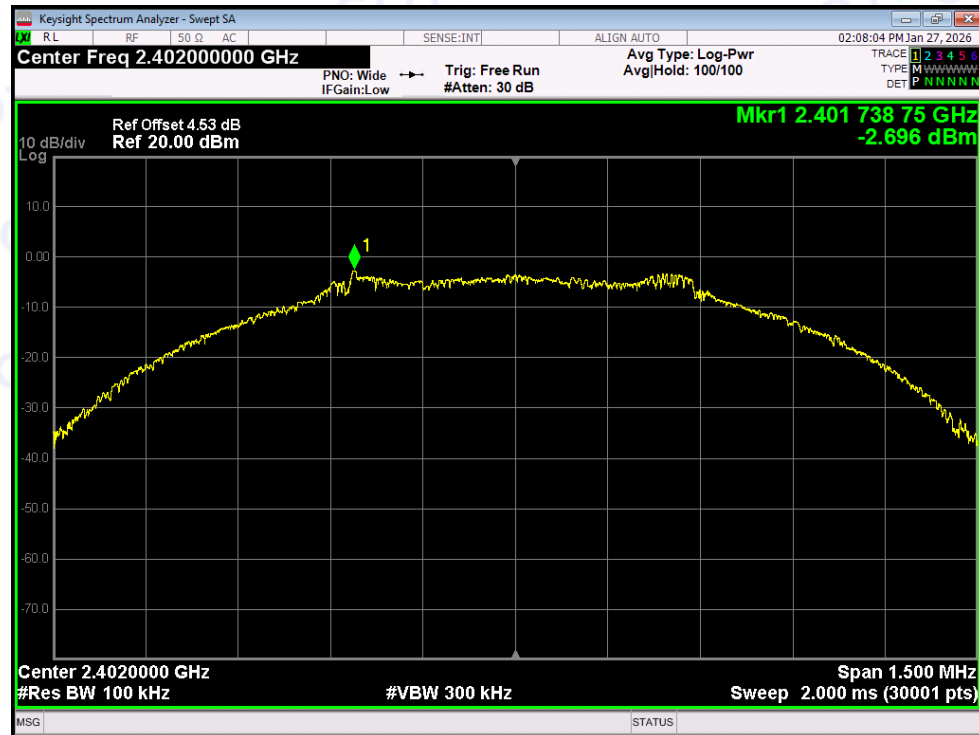


## 7. Conducted RF Spurious Emission

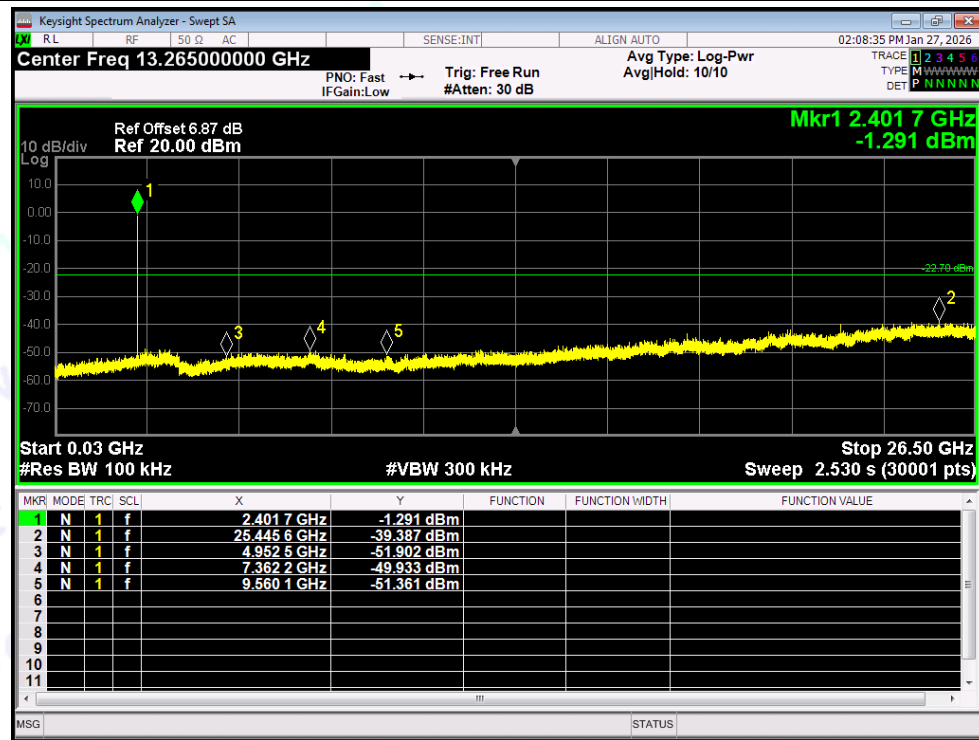
| Condition | Mode      | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|-----------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | BLE 1Mbps | 2402            | Ant1    | -36.69          | -20         | Pass    |
| NVNT      | BLE 1Mbps | 2440            | Ant1    | -36.77          | -20         | Pass    |
| NVNT      | BLE 1Mbps | 2480            | Ant1    | -35.12          | -20         | Pass    |
| NVNT      | BLE 2Mbps | 2402            | Ant1    | -34.41          | -20         | Pass    |
| NVNT      | BLE 2Mbps | 2440            | Ant1    | -36.08          | -20         | Pass    |
| NVNT      | BLE 2Mbps | 2480            | Ant1    | -35.00          | -20         | Pass    |

## Test Graphs

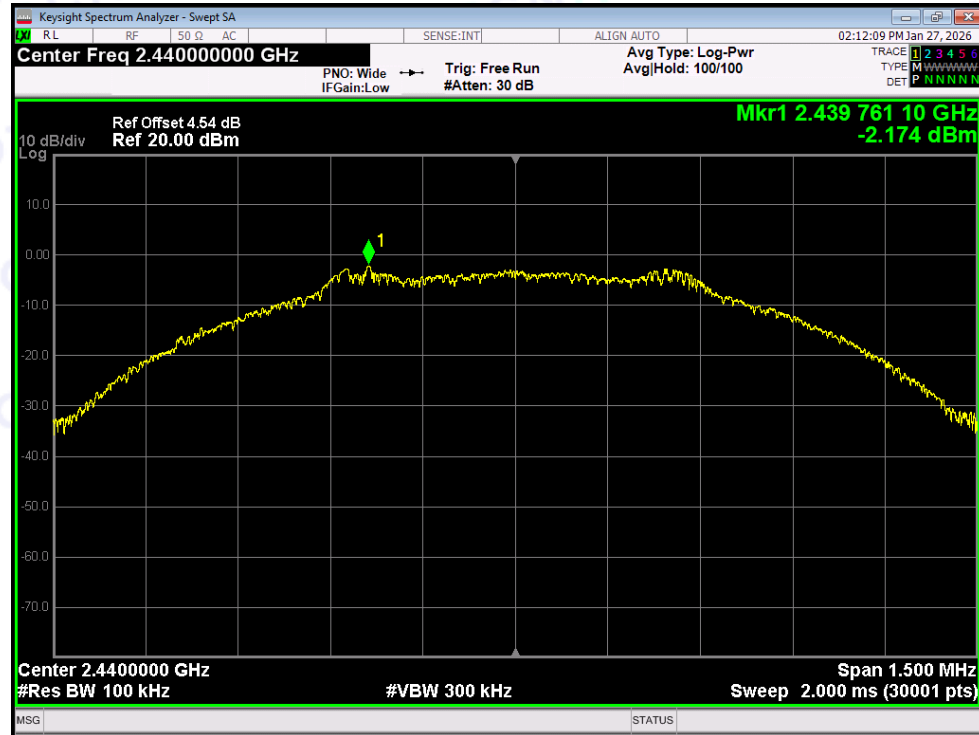
## Tx. Spurious NVNT BLE 1Mbps 2402MHz Ant1 Ref



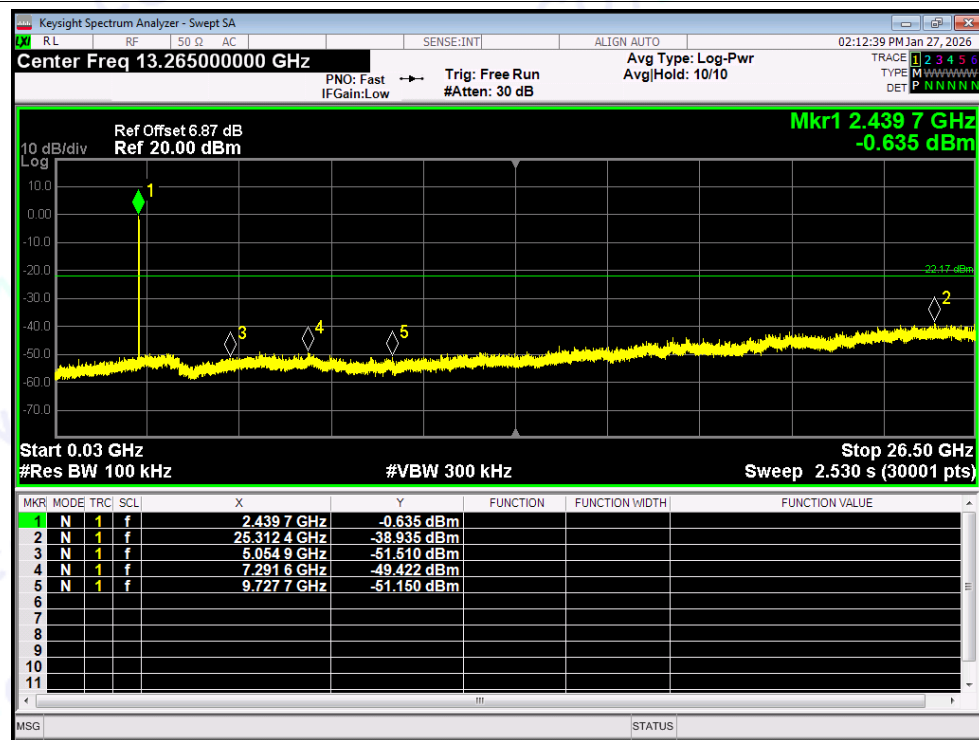
## Tx. Spurious NVNT BLE 1Mbps 2402MHz Ant1 Emission



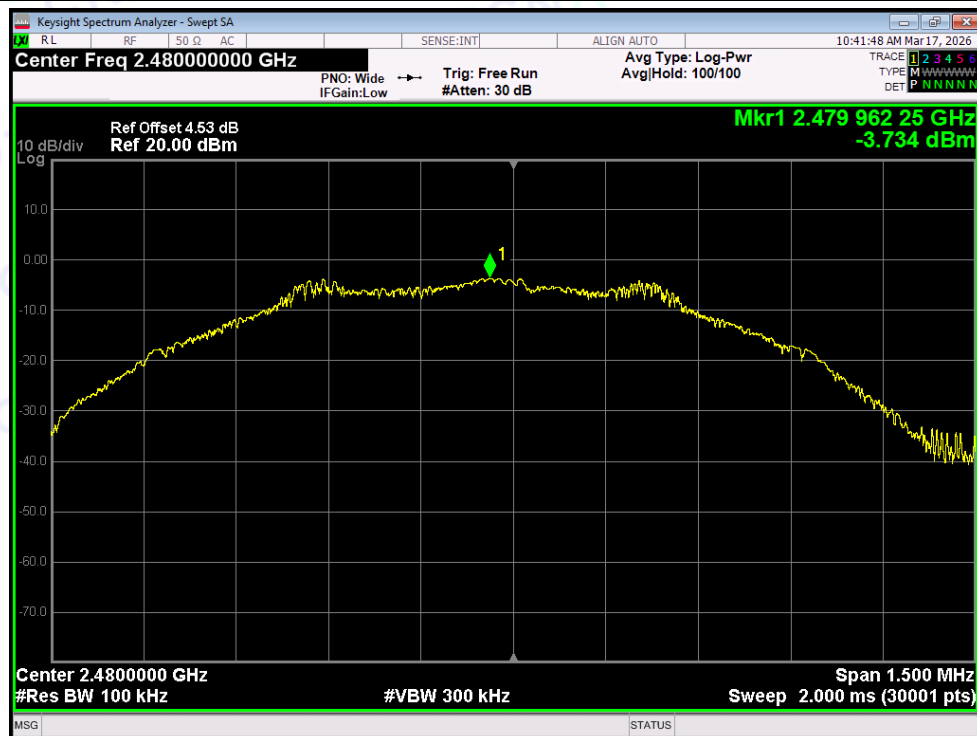
## Tx. Spurious NVNT BLE 1Mbps 2440MHz Ant1 Ref



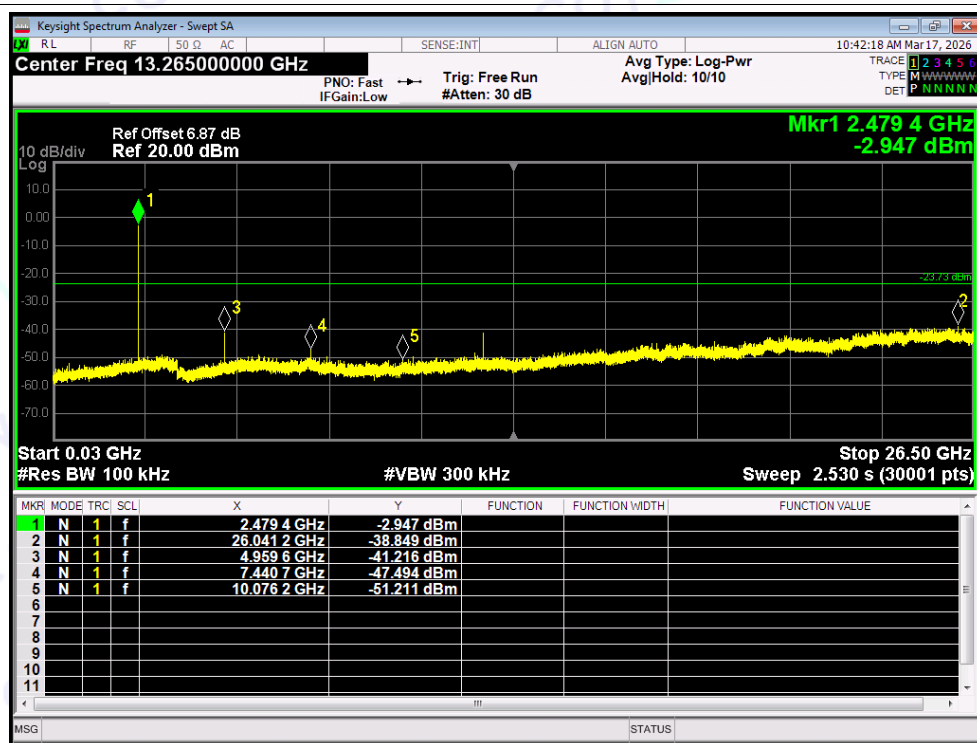
## Tx. Spurious NVNT BLE 1Mbps 2440MHz Ant1 Emission



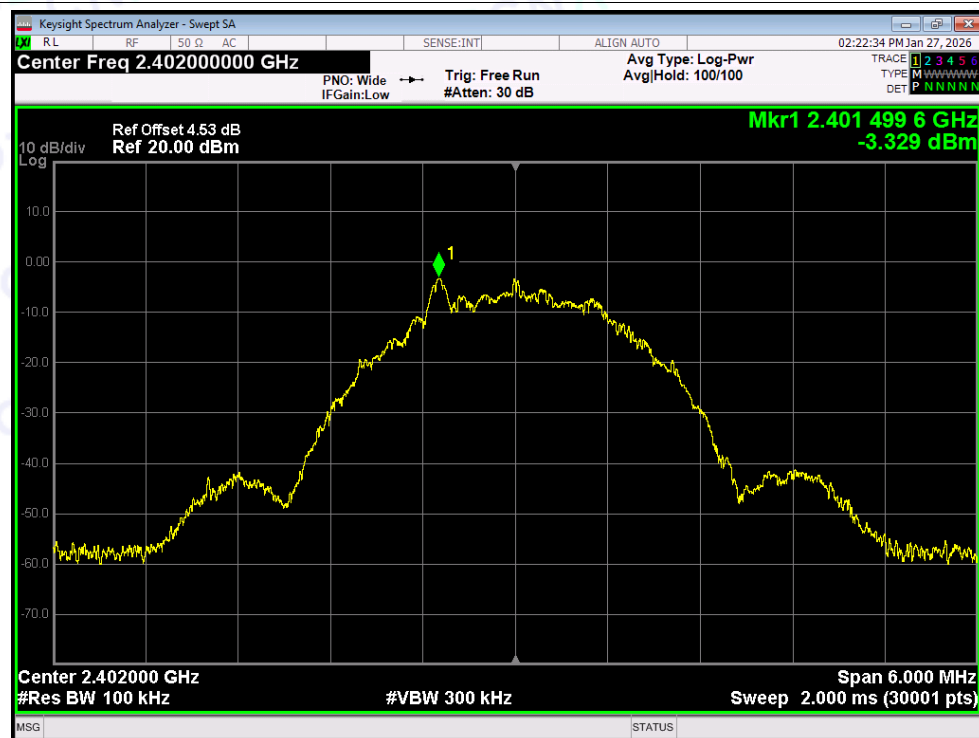
## Tx. Spurious NVNT BLE 1Mbps 2480MHz Ant1 Ref



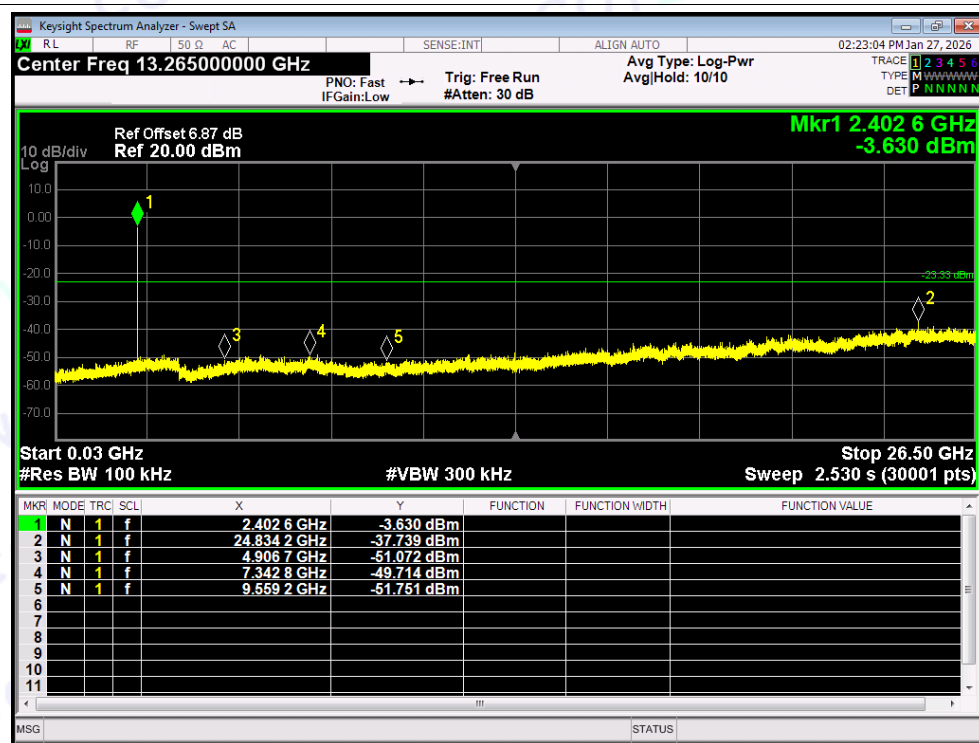
## Tx. Spurious NVNT BLE 1Mbps 2480MHz Ant1 Emission



## Tx. Spurious NVNT BLE 2Mbps 2402MHz Ant1 Ref



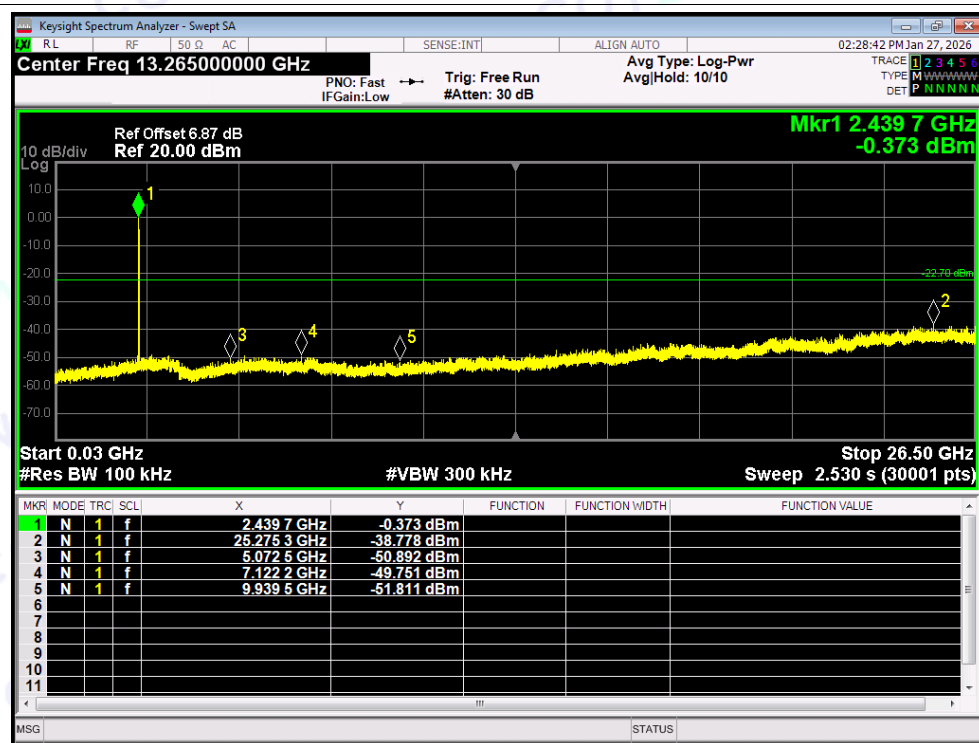
## Tx. Spurious NVNT BLE 2Mbps 2402MHz Ant1 Emission



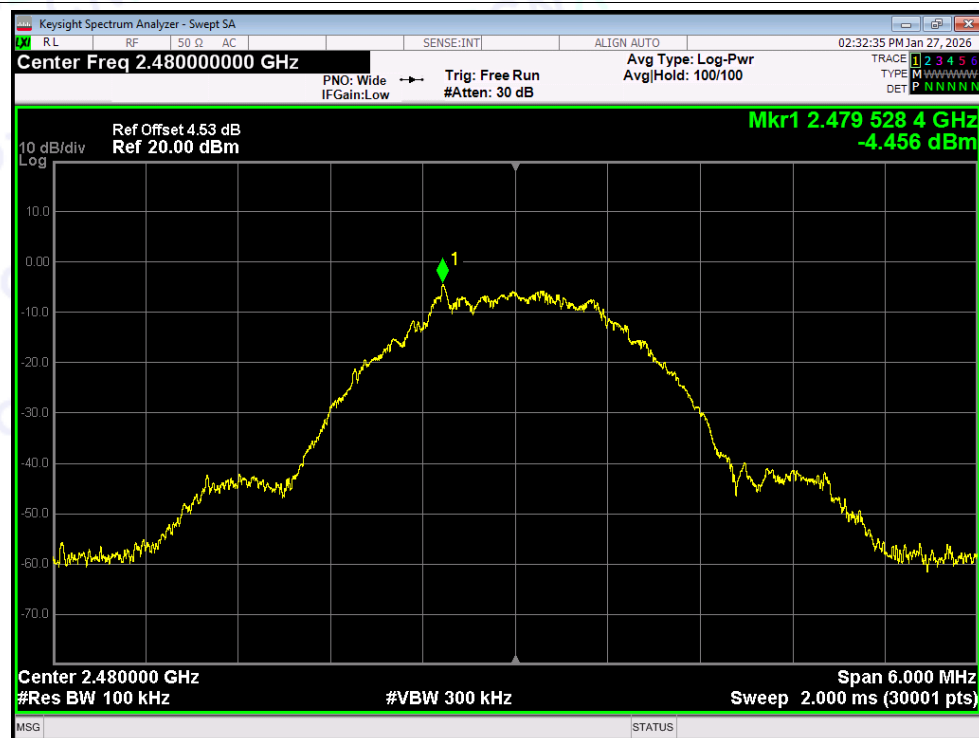
## Tx. Spurious NVNT BLE 2Mbps 2440MHz Ant1 Ref



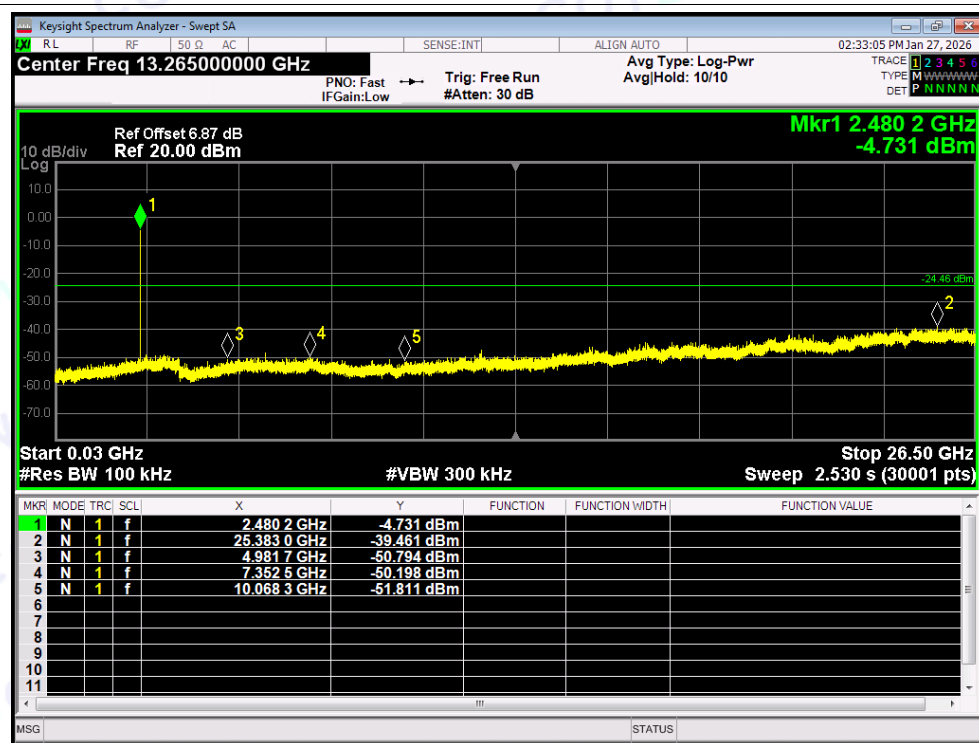
## Tx. Spurious NVNT BLE 2Mbps 2440MHz Ant1 Emission



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



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



-----END OF THE REPORT-----