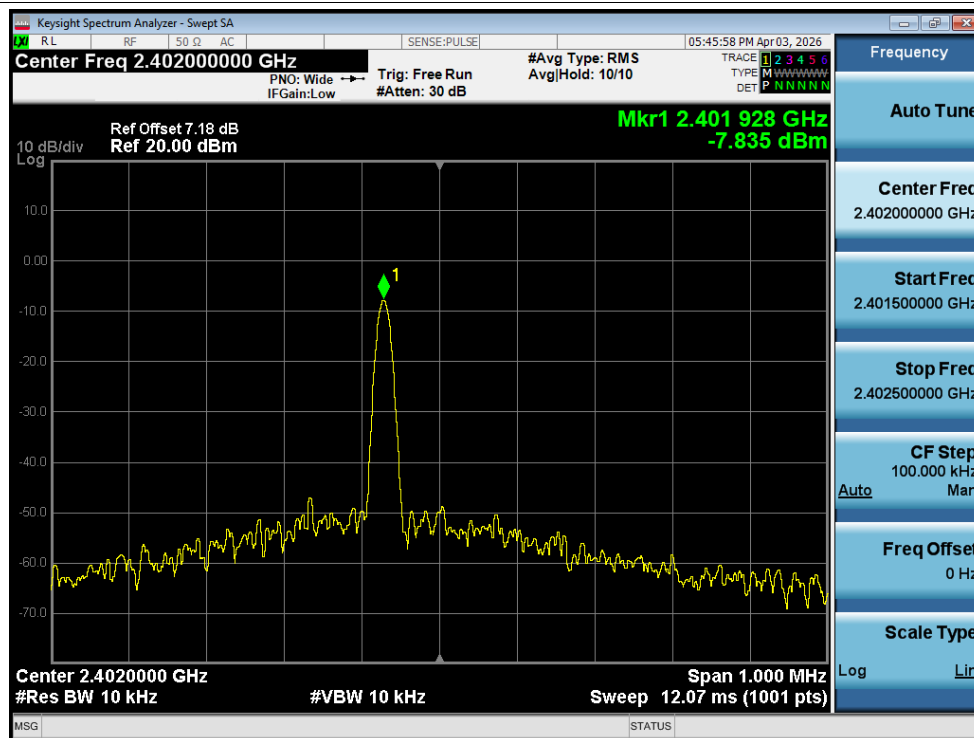


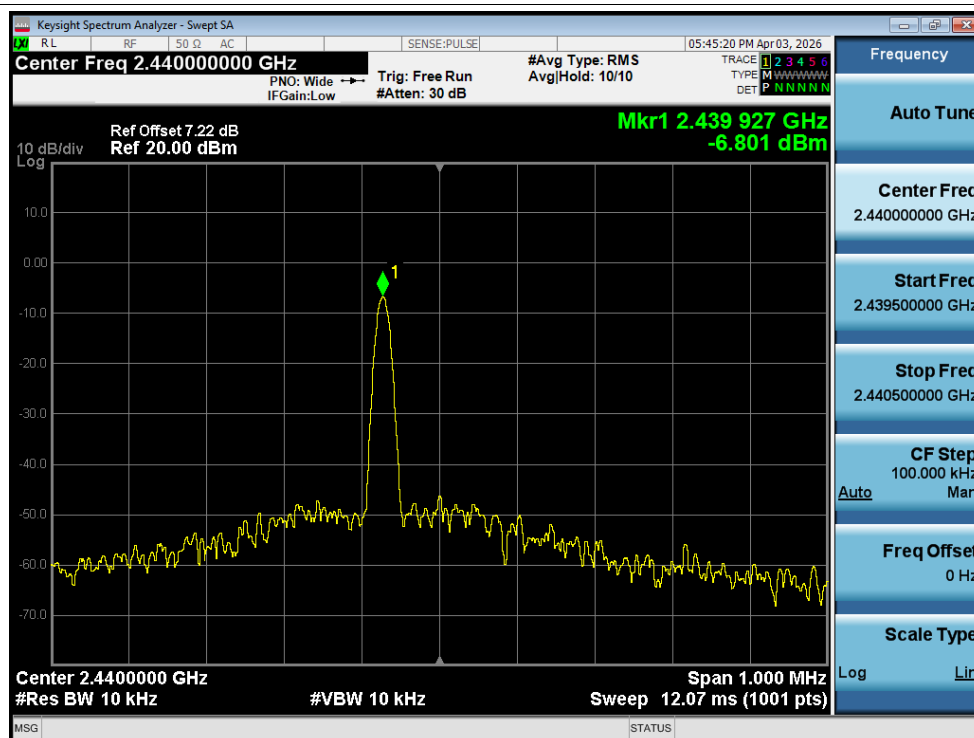
## Appendix A

### Frequency Error

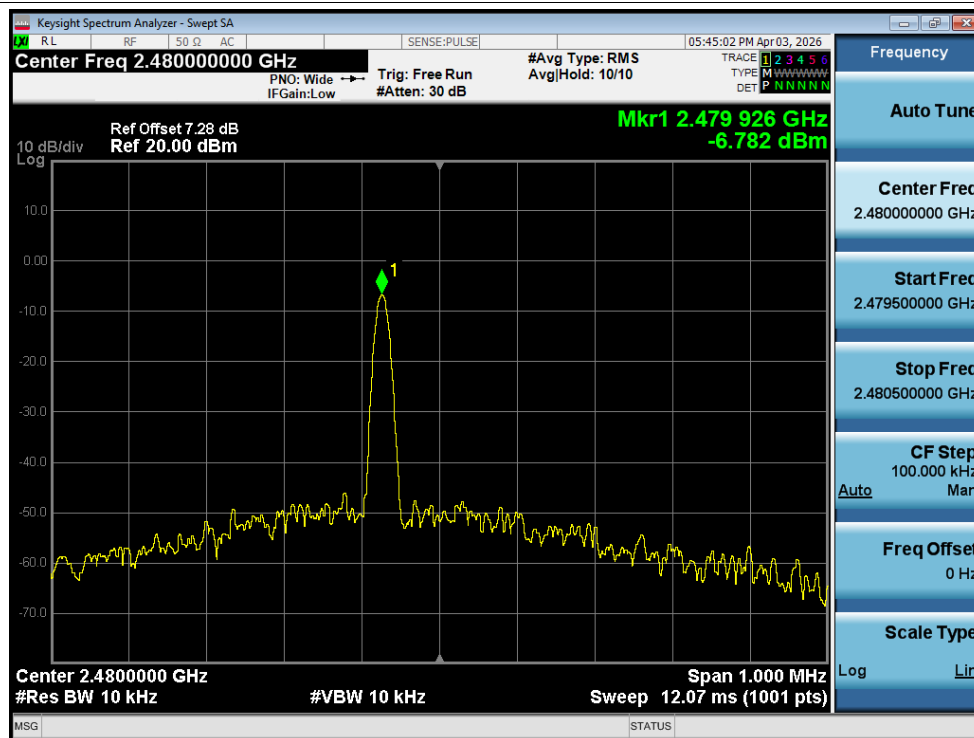
| Condition | Mode   | Frequency<br>(MHz) | Antenna | Measured<br>Frequency (MHz) | Frequency Error<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Verdict |
|-----------|--------|--------------------|---------|-----------------------------|-------------------------|--------------------|----------------|---------|
| NVNT      | BLE 1M | 2402               | Ant1    | 2401.928                    | -72000                  | -29.98             | 50             | Pass    |
| NVNT      | BLE 1M | 2440               | Ant1    | 2439.927                    | -73000                  | -29.92             | 50             | Pass    |
| NVNT      | BLE 1M | 2480               | Ant1    | 2479.926                    | -74000                  | -29.84             | 50             | Pass    |



Freq. Error NVNT 2402MHz Ant1



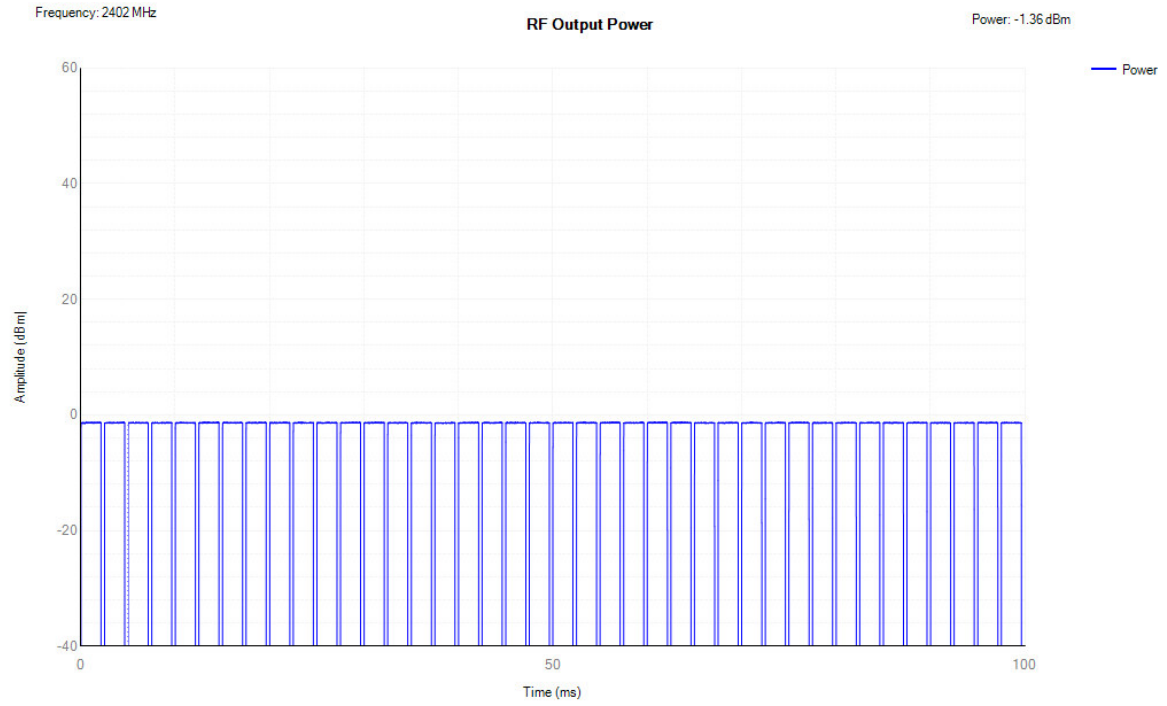
Freq. Error NVNT 2440MHz Ant1



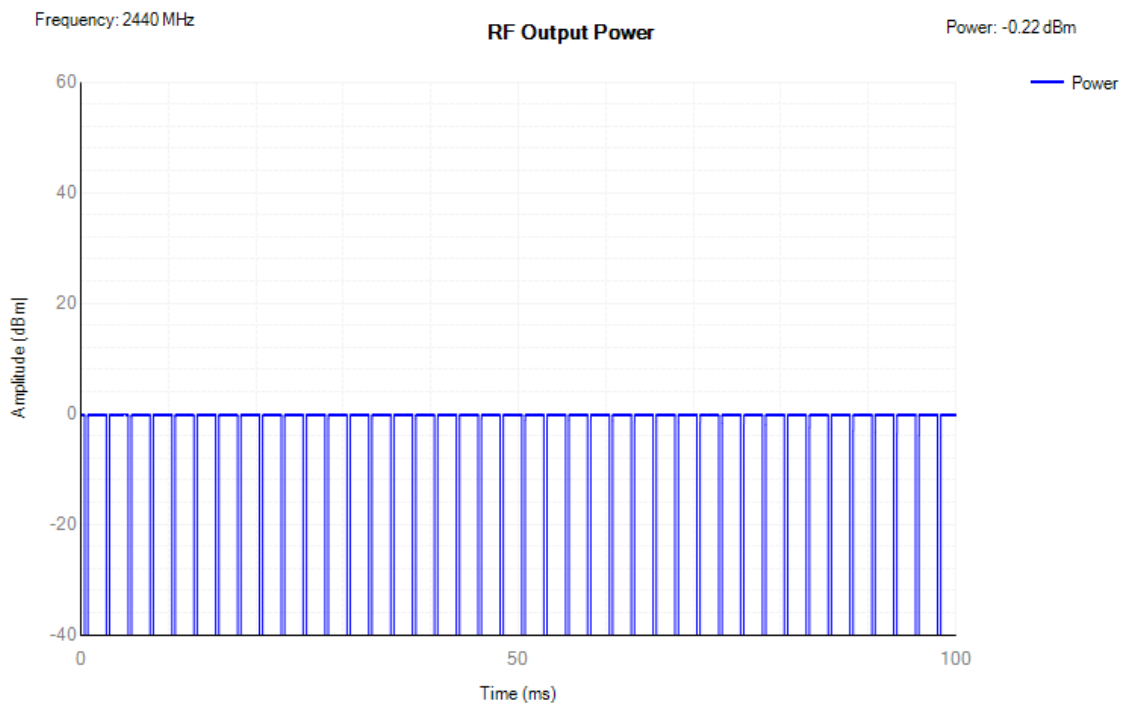
Freq. Error NVNT 2480MHz Ant1

## Antenna Power

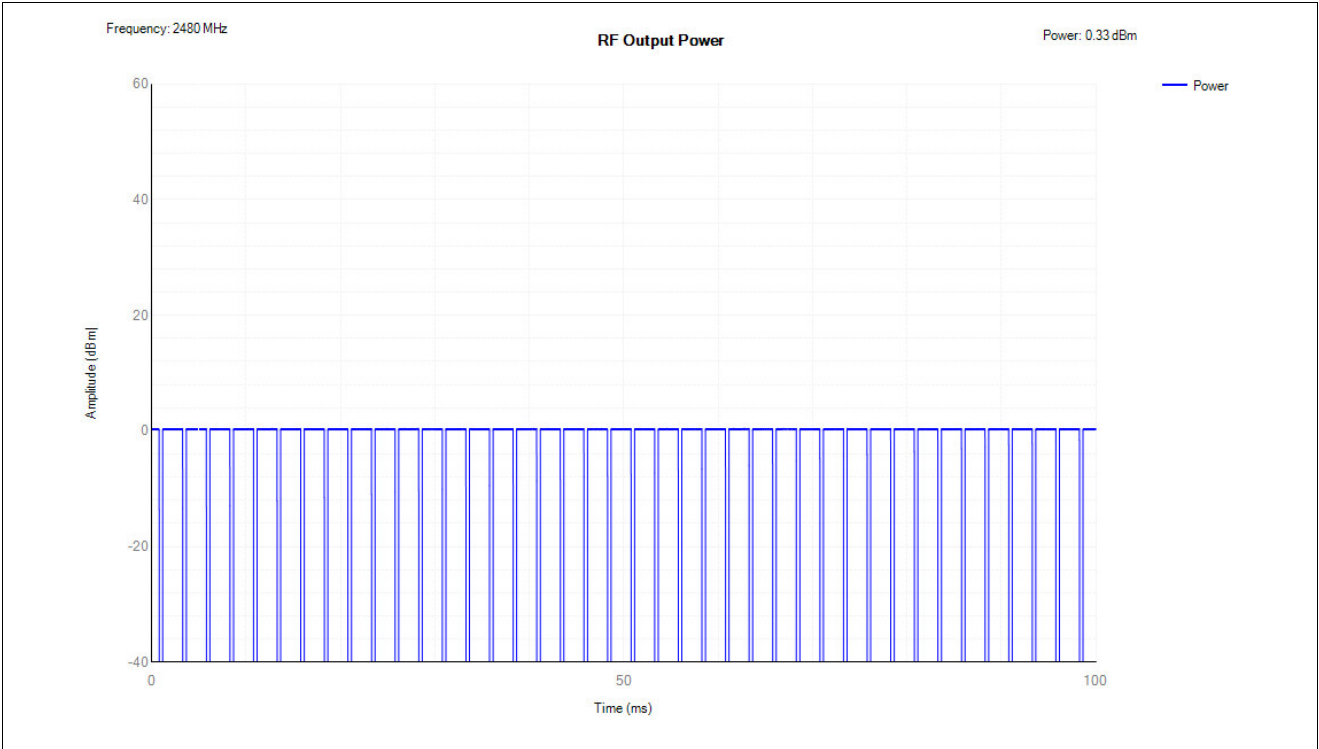
| Condition | Mode   | Frequency (MHz) | Antenna | Power (dBm) | Power (mW) | Limit (mW) | Declared Power (mW) | Tolerance (%) | Upper Limit (%) | Verdict |
|-----------|--------|-----------------|---------|-------------|------------|------------|---------------------|---------------|-----------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -1.36       | 0.731      | 10         | 1                   | -26.9         | 20              | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | -0.22       | 0.951      | 10         | 1                   | -4.9          | 20              | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 0.33        | 1.079      | 10         | 1                   | 7.9           | 20              | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | -1.35       | 0.733      | 10         | 1                   | -26.7         | 20              | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | -0.16       | 0.964      | 10         | 1                   | -3.6          | 20              | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | 0.42        | 1.102      | 10         | 1                   | 10.2          | 20              | Pass    |



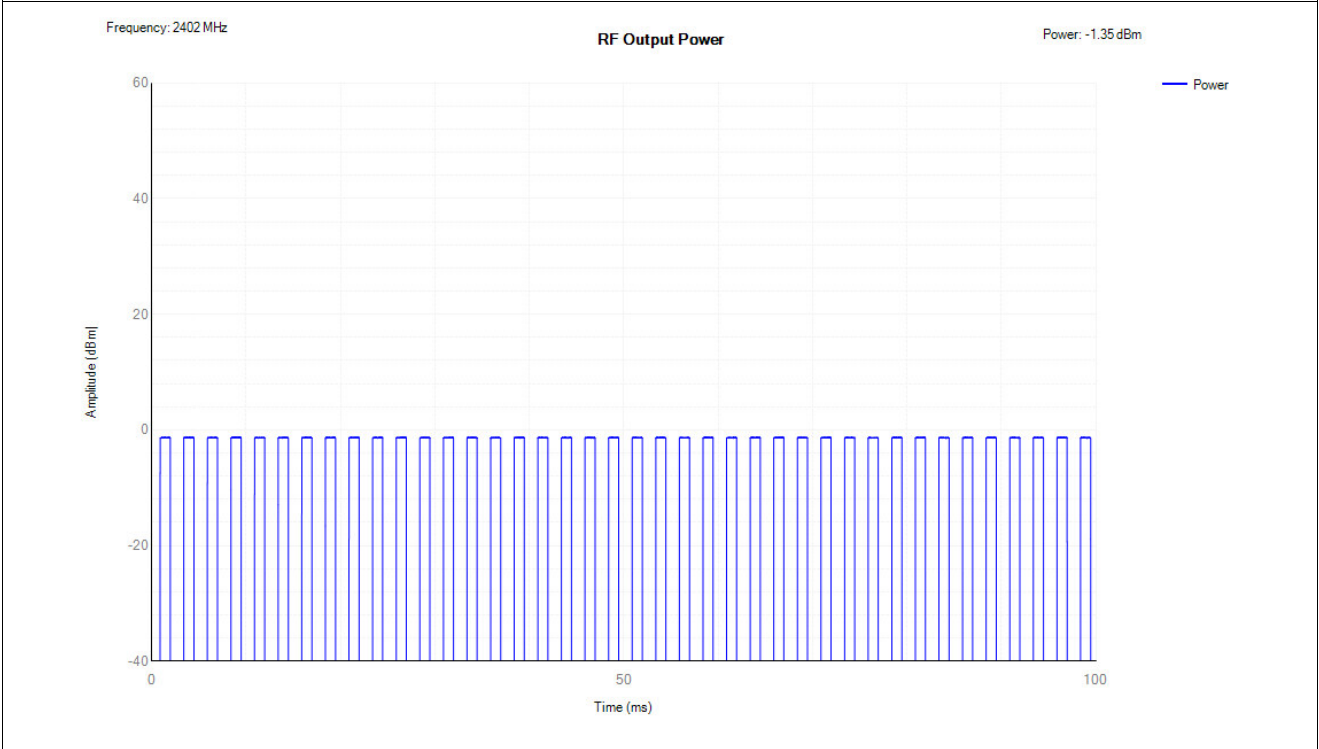
Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1



Power NVNT BLE 1M 2480MHz Ant1

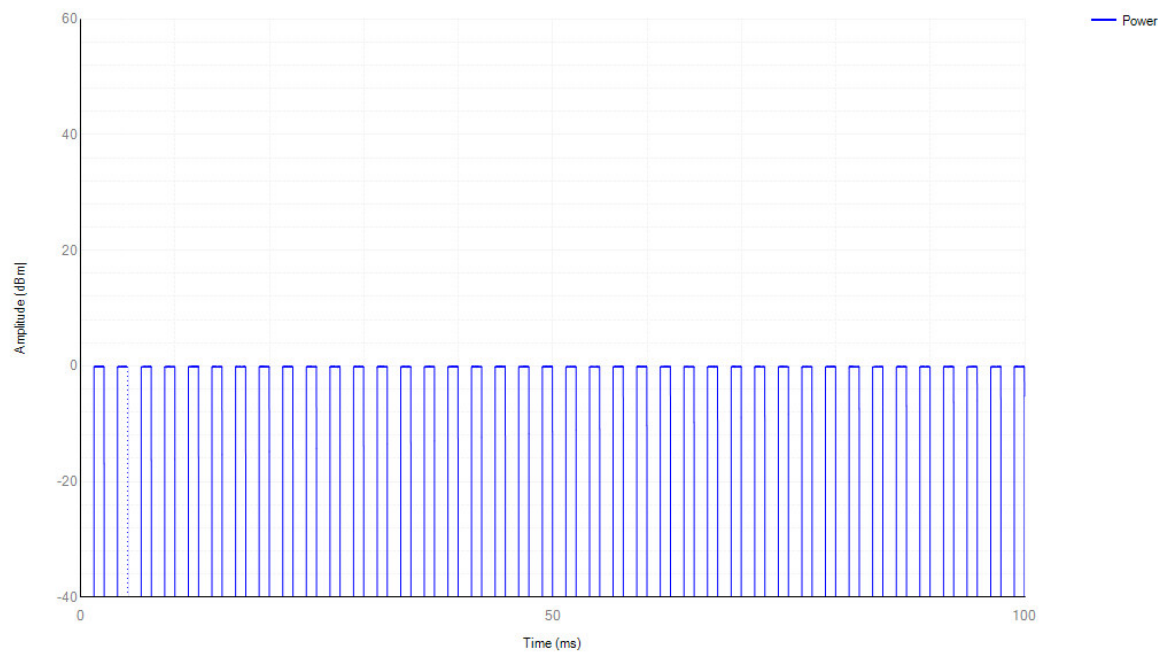


Power NVNT BLE 2M 2402MHz Ant1

Frequency: 2440 MHz

### RF Output Power

Power: -0.16 dBm

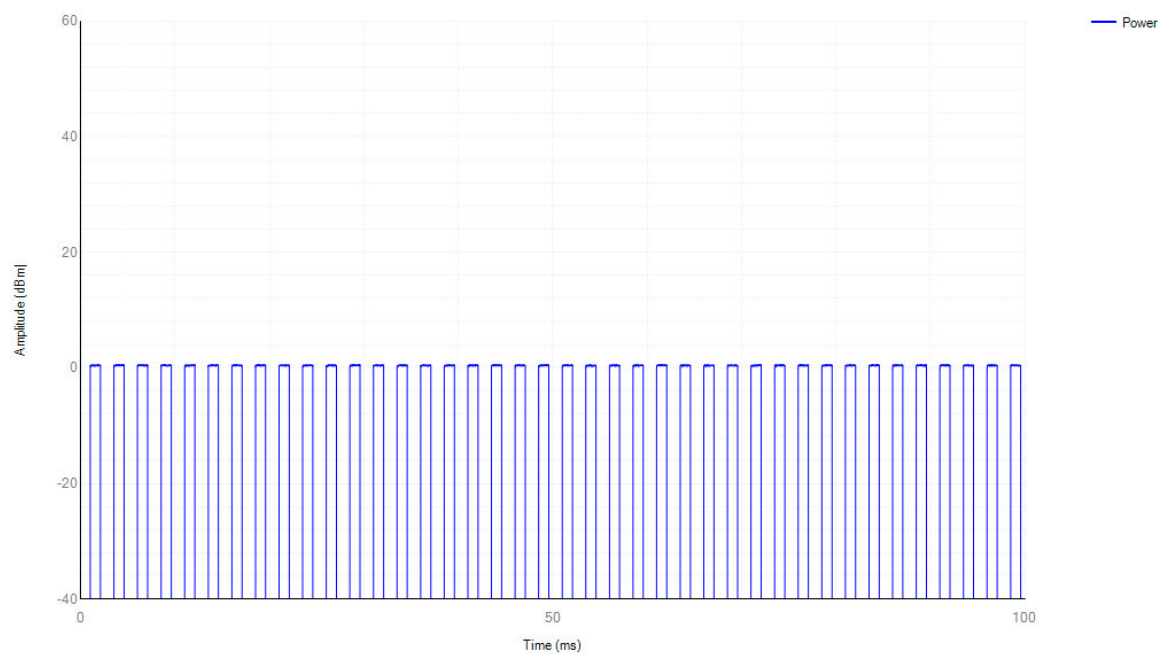


### Power NVNT BLE 2M 2440MHz Ant1

Frequency: 2480 MHz

### RF Output Power

Power: 0.42 dBm



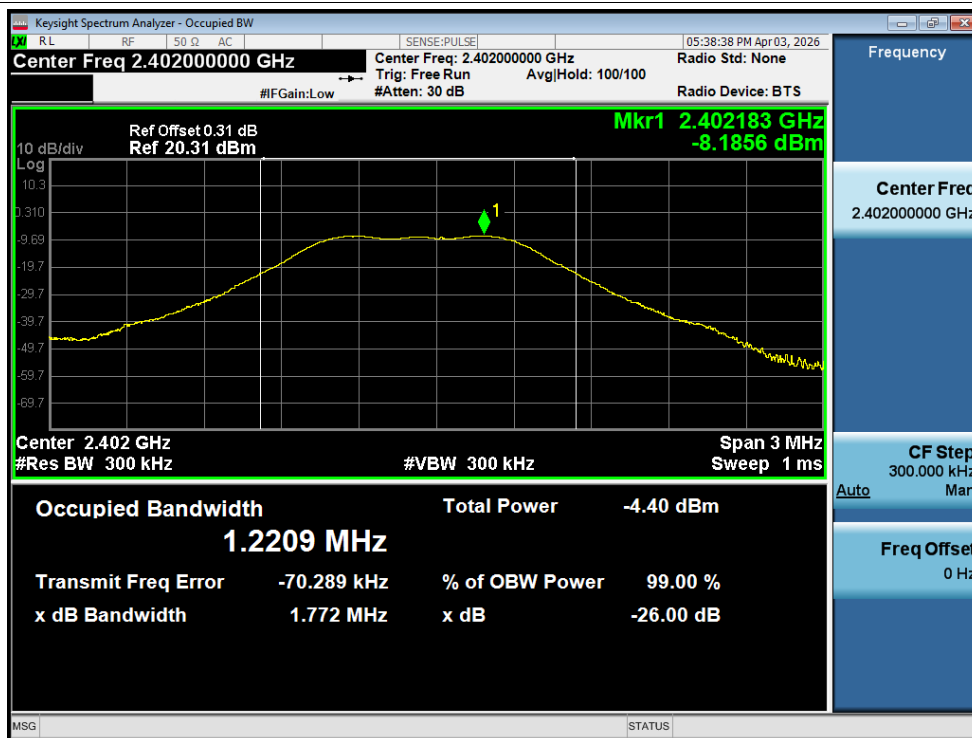
### Power NVNT BLE 2M 2480MHz Ant1

## EIRP Power

| Condition | Mode   | Frequency (MHz) | Antenna | Antenna Power (mW) | Antenna Power (dBm) | Gain (dBi) | EIRP Power (dBm) | Limit (dBm) | Verdict |
|-----------|--------|-----------------|---------|--------------------|---------------------|------------|------------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | 0.731              | -1.36               | -6.87      | -8.23            | 12.14       | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | 0.951              | -0.22               | -6.87      | -7.09            | 12.14       | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 1.079              | 0.33                | -6.87      | -6.54            | 12.14       | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 0.733              | -1.35               | -6.87      | -8.22            | 12.14       | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | 0.964              | -0.16               | -6.87      | -7.03            | 12.14       | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | 1.102              | 0.42                | -6.87      | -6.45            | 12.14       | Pass    |

## Occupied Channel Bandwidth

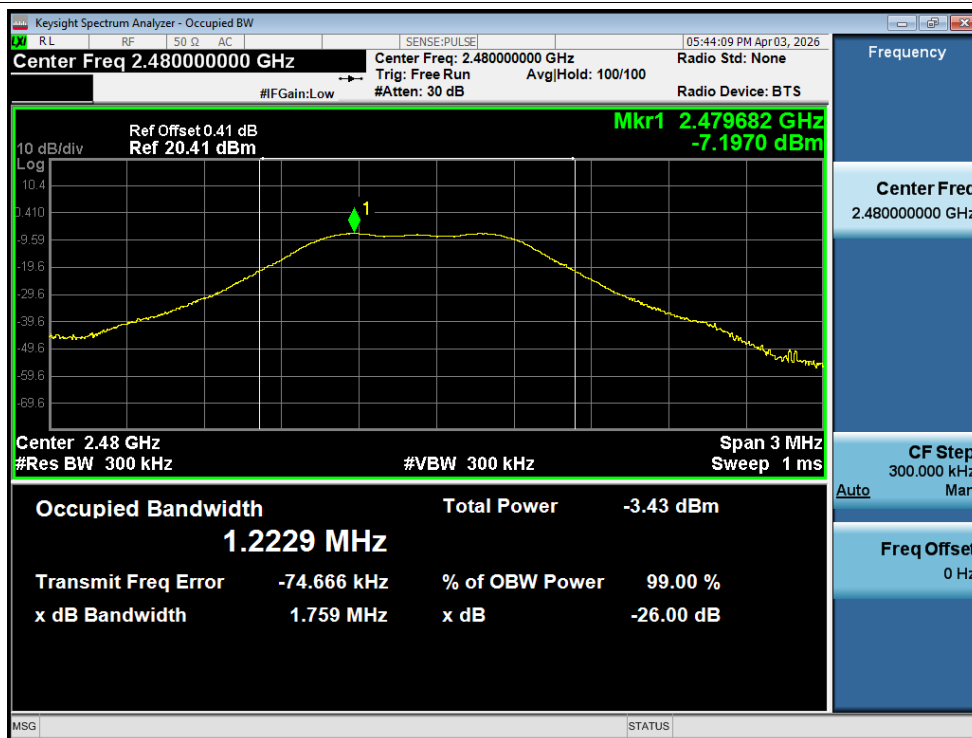
| Condition | Mode   | Frequency (MHz) | Antenna | 99% OBW (MHz) | Lower Limit (MHz) | Upper Limit (MHz) | Verdict |
|-----------|--------|-----------------|---------|---------------|-------------------|-------------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | 1.2209        | N/A               | 26                | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | 1.2228        | N/A               | 26                | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 1.2229        | N/A               | 26                | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 2.1248        | N/A               | 26                | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | 2.1235        | N/A               | 26                | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | 2.1194        | N/A               | 26                | Pass    |



OBW NVNT BLE 1M 2402MHz Ant1



OBW NVNT BLE 1M 2440MHz Ant1



OBW NVNT BLE 1M 2480MHz Ant1



OBW NVNT BLE 2M 2402MHz Ant1



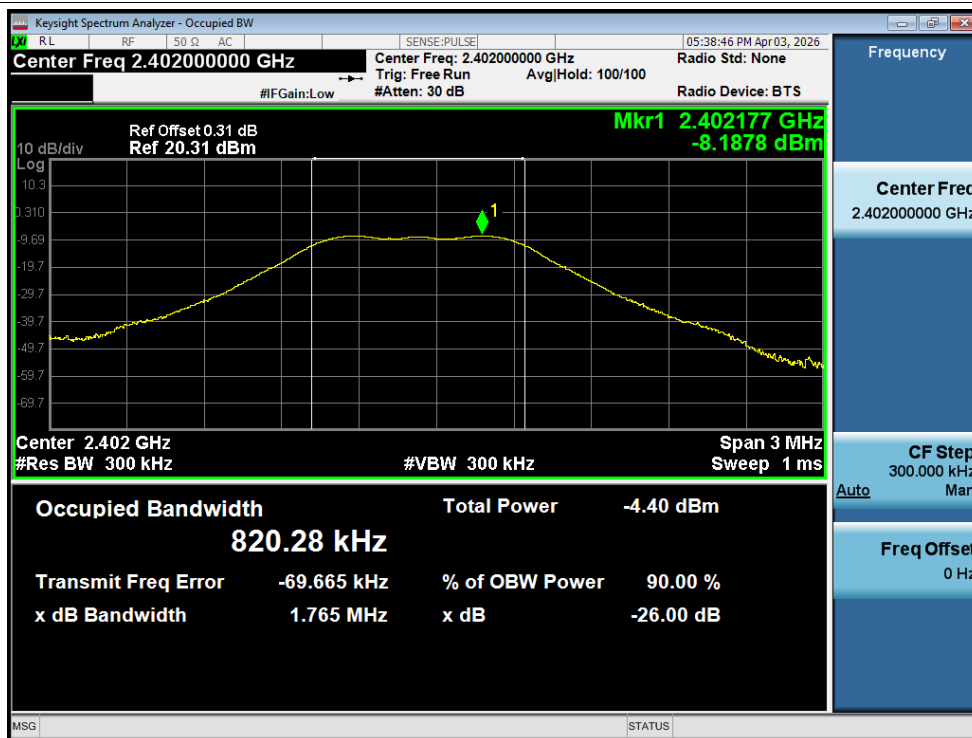
OBW NVNT BLE 2M 2440MHz Ant1



OBW NVNT BLE 2M 2480MHz Ant1

# Spreading Bandwidth

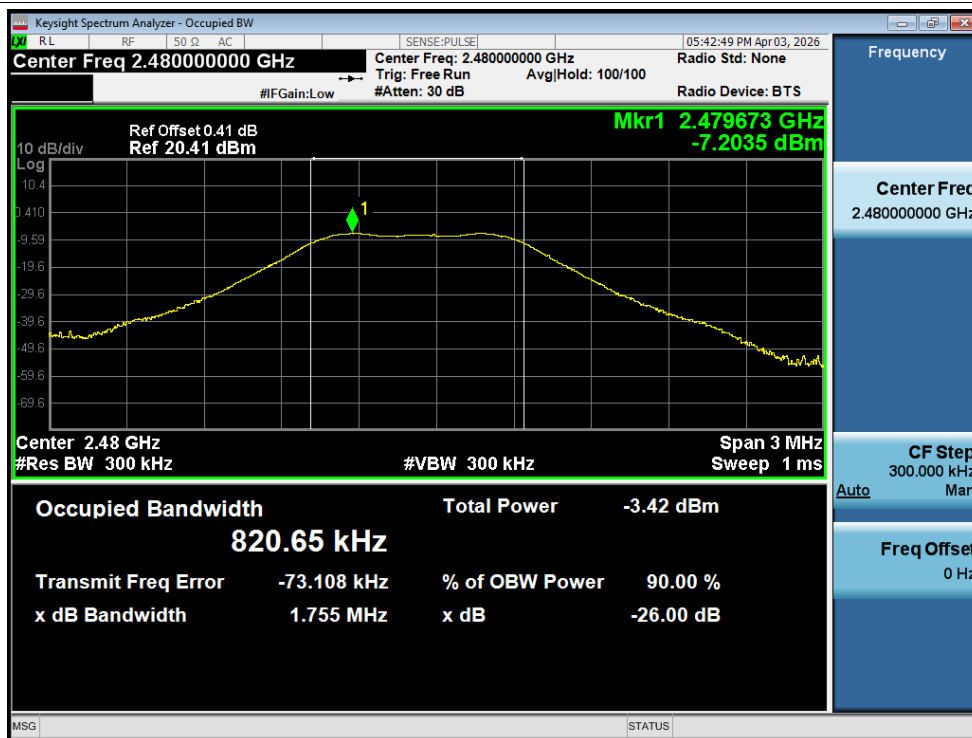
| Condition | Mode   | Frequency (MHz) | Antenna | 90% OBW (MHz) |
|-----------|--------|-----------------|---------|---------------|
| NVNT      | BLE 1M | 2402            | Ant1    | 0.82028       |
| NVNT      | BLE 1M | 2440            | Ant1    | 0.82028       |
| NVNT      | BLE 1M | 2480            | Ant1    | 0.82065       |
| NVNT      | BLE 2M | 2402            | Ant1    | 1.3699        |
| NVNT      | BLE 2M | 2440            | Ant1    | 1.3629        |
| NVNT      | BLE 2M | 2480            | Ant1    | 1.3714        |



Spreading Bandwidth NVNT BLE 1M 2402MHz Ant1



Spreading Bandwidth NVNT BLE 1M 2440MHz Ant1



Spreading Bandwidth NVNT BLE 1M 2480MHz Ant1



Spreading Bandwidth NVNT BLE 2M 2402MHz Ant1



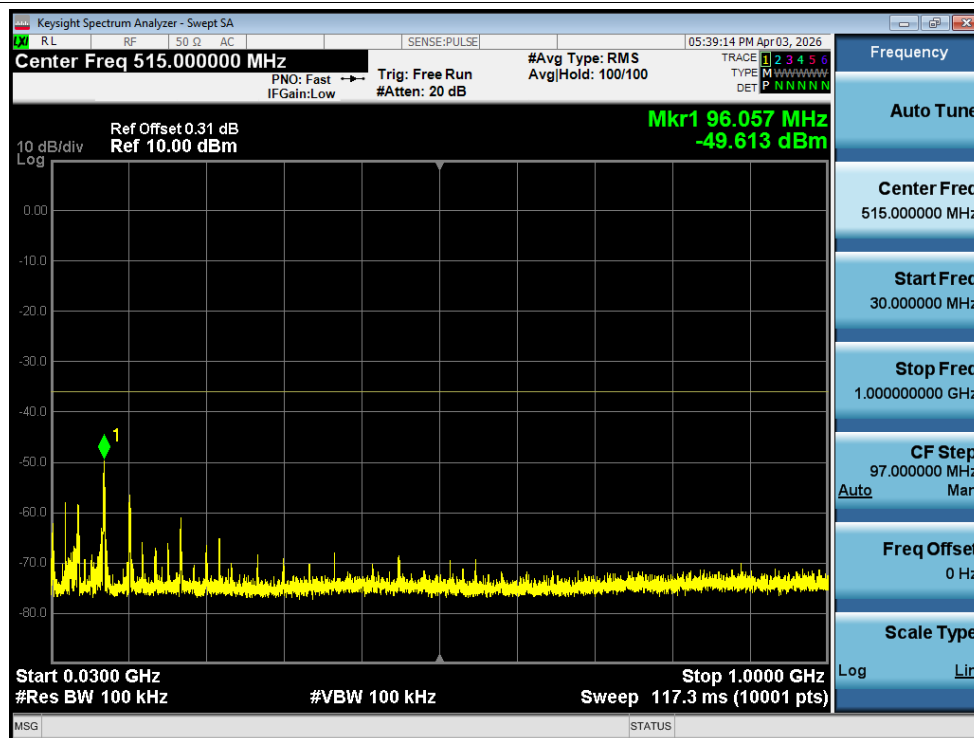
Spreading Bandwidth NVNT BLE 2M 2440MHz Ant1



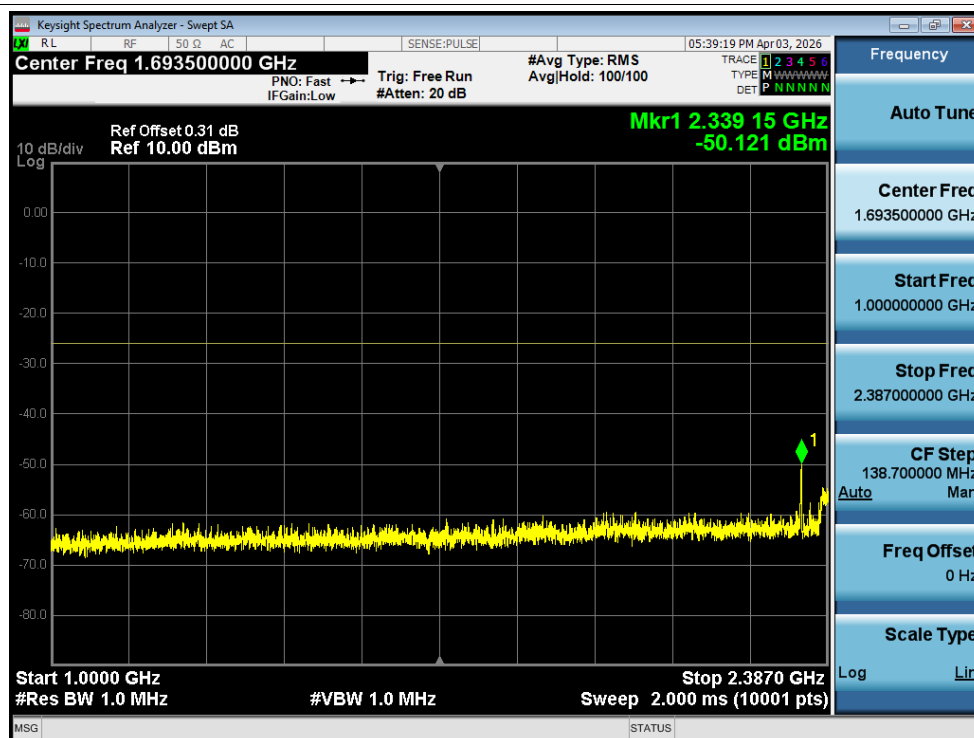
Spreading Bandwidth NVNT BLE 2M 2480MHz Ant1

## Tx Spurious Emission

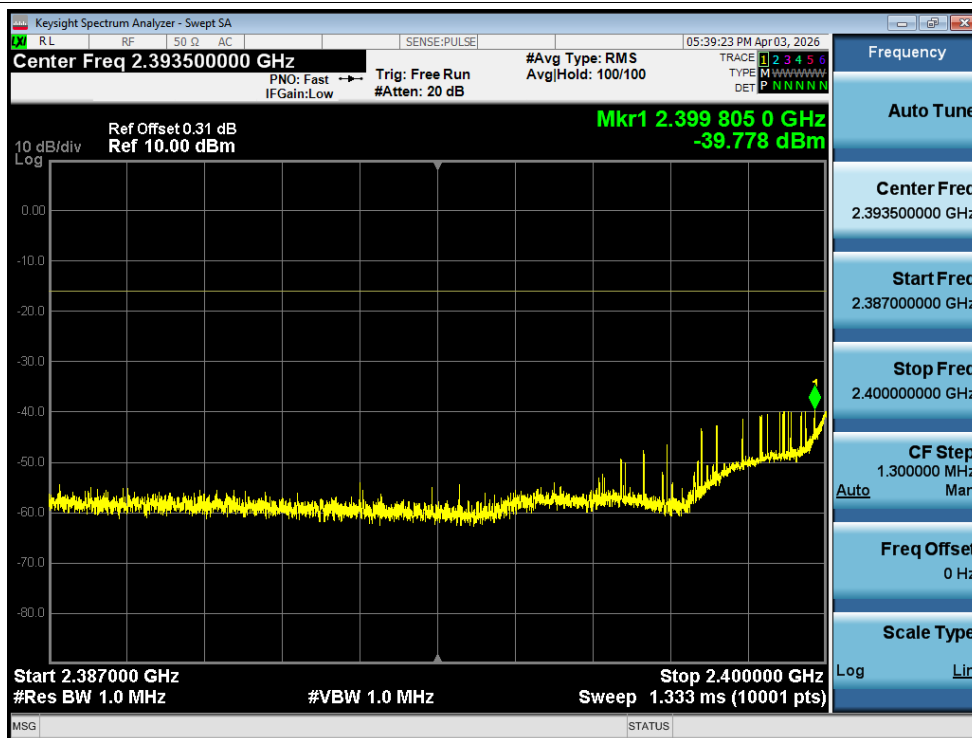
| Condition | Mode   | Frequency (MHz) | Antenna | Range (MHz)   | Emission Frequency (MHz) | Max Peak Value (dBm) | Max RMS Value (dBm) | Max Peak Value (uW) | Max RMS Value (uW) | Limit Start(uW) | Limit Stop (uW) | Verdict |
|-----------|--------|-----------------|---------|---------------|--------------------------|----------------------|---------------------|---------------------|--------------------|-----------------|-----------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | 30-1000       | 96.06                    | -49.61               | NA                  | 0.0109              | NA                 | 0.25            | 0.25            | Pass    |
| NVNT      | BLE 1M | 2402            | Ant1    | 1000-2387     | 2339.15                  | -50.12               | NA                  | 0.0097              | NA                 | 2.5             | 2.5             | Pass    |
| NVNT      | BLE 1M | 2402            | Ant1    | 2387-2400     | 2399.80                  | -39.78               | NA                  | 0.1052              | NA                 | 25              | 25              | Pass    |
| NVNT      | BLE 1M | 2402            | Ant1    | 2483.5-2496.5 | 2496.48                  | -53.89               | NA                  | 0.0041              | NA                 | 25              | 25              | Pass    |
| NVNT      | BLE 1M | 2402            | Ant1    | 2496.5-13000  | 2498.60                  | -49.71               | NA                  | 0.0107              | NA                 | 2.5             | 2.5             | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | 30-1000       | 96.06                    | -49.73               | NA                  | 0.0106              | NA                 | 0.25            | 0.25            | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | 1000-2387     | 2376.87                  | -49.94               | NA                  | 0.0101              | NA                 | 2.5             | 2.5             | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | 2387-2400     | 2392.11                  | -56.26               | NA                  | 0.0024              | NA                 | 25              | 25              | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | 2483.5-2496.5 | 2487.93                  | -55.05               | NA                  | 0.0031              | NA                 | 25              | 25              | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | 2496.5-13000  | 2503.85                  | -48.61               | NA                  | 0.0138              | NA                 | 2.5             | 2.5             | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 30-1000       | 96.06                    | -49.66               | NA                  | 0.0108              | NA                 | 0.25            | 0.25            | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 1000-2387     | 2385.06                  | -54.39               | NA                  | 0.0036              | NA                 | 2.5             | 2.5             | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 2387-2400     | 2398.82                  | -58.52               | NA                  | 0.0014              | NA                 | 25              | 25              | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 2483.5-2496.5 | 2483.66                  | -49.76               | NA                  | 0.0106              | NA                 | 25              | 25              | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 2496.5-13000  | 2544.82                  | -45.72               | NA                  | 0.0268              | NA                 | 2.5             | 2.5             | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 30-1000       | 96.06                    | -49.51               | NA                  | 0.0112              | NA                 | 0.25            | 0.25            | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 1000-2387     | 2306.69                  | -52.28               | NA                  | 0.0059              | NA                 | 2.5             | 2.5             | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 2387-2400     | 2399.99                  | -28.74               | NA                  | 1.3366              | NA                 | 25              | 25              | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 2483.5-2496.5 | 2496.43                  | -51.88               | NA                  | 0.0065              | NA                 | 25              | 25              | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 2496.5-13000  | 2498.60                  | -48.59               | NA                  | 0.0138              | NA                 | 2.5             | 2.5             | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | 30-1000       | 95.96                    | -49.73               | NA                  | 0.0106              | NA                 | 0.25            | 0.25            | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | 1000-2387     | 2376.87                  | -51.69               | NA                  | 0.0068              | NA                 | 2.5             | 2.5             | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | 2387-2400     | 2392.58                  | -56.15               | NA                  | 0.0024              | NA                 | 25              | 25              | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | 2483.5-2496.5 | 2488.62                  | -54.99               | NA                  | 0.0032              | NA                 | 25              | 25              | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | 2496.5-13000  | 2536.41                  | -47.54               | NA                  | 0.0176              | NA                 | 2.5             | 2.5             | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | 30-1000       | 95.96                    | -49.53               | NA                  | 0.0111              | NA                 | 0.25            | 0.25            | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | 1000-2387     | 2384.78                  | -53.84               | NA                  | 0.0041              | NA                 | 2.5             | 2.5             | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | 2387-2400     | 2395.91                  | -58.70               | NA                  | 0.0013              | NA                 | 25              | 25              | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | 2483.5-2496.5 | 2484.35                  | -50.64               | NA                  | 0.0086              | NA                 | 25              | 25              | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | 2496.5-13000  | 2544.82                  | -45.93               | NA                  | 0.0255              | NA                 | 2.5             | 2.5             | Pass    |



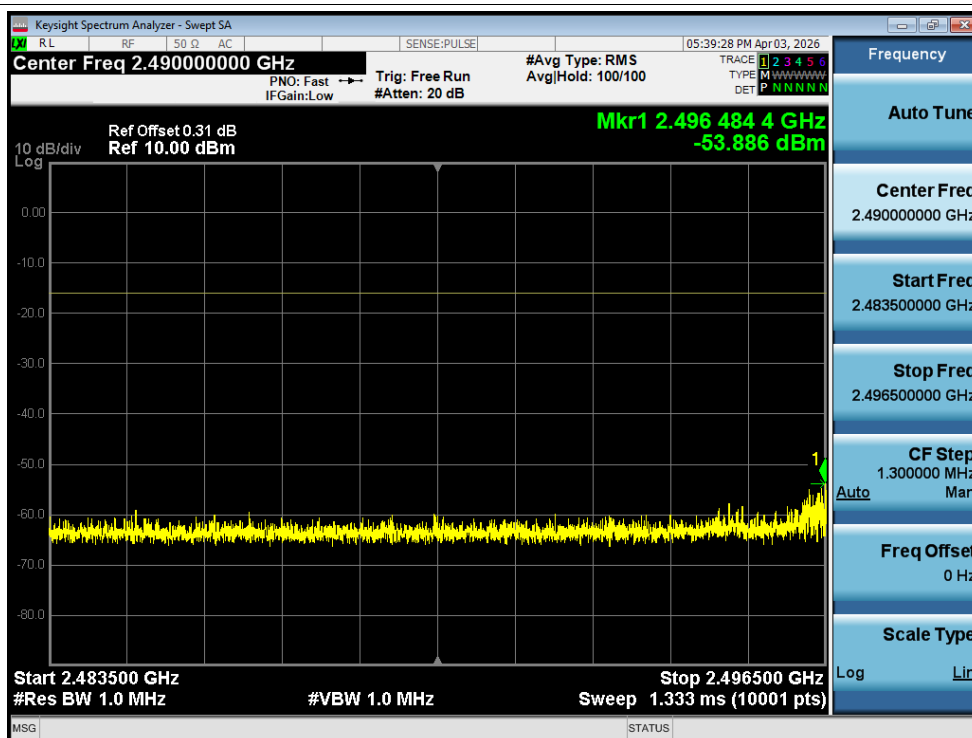
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 @ 30MHz-1000MHz



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 @ 1000MHz-2387MHz



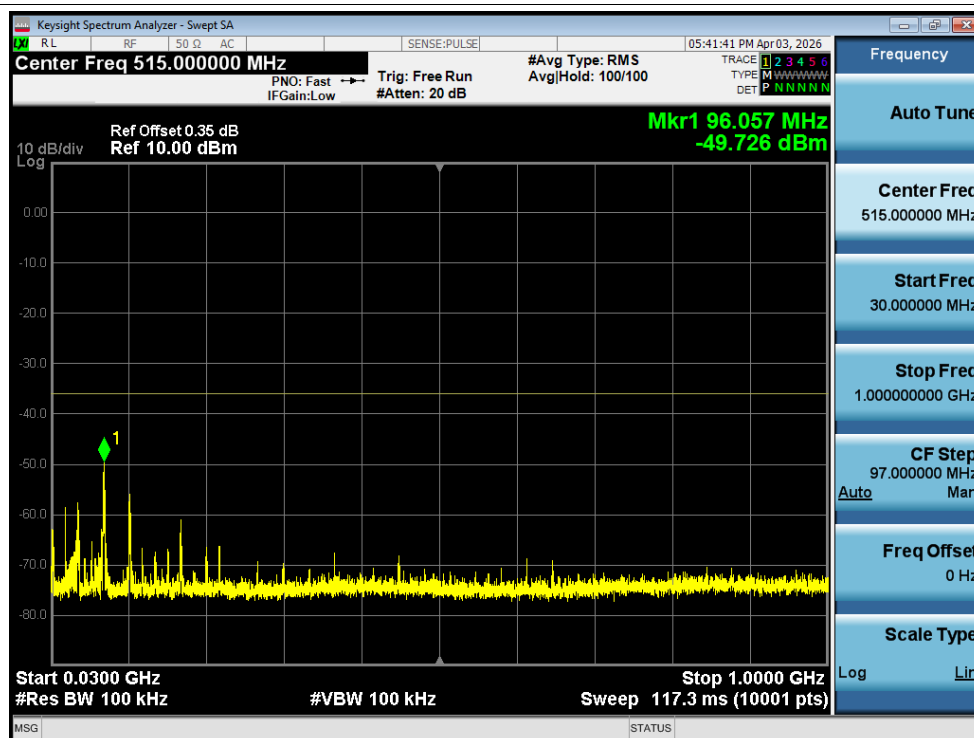
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 @ 2387MHz-2400MHz



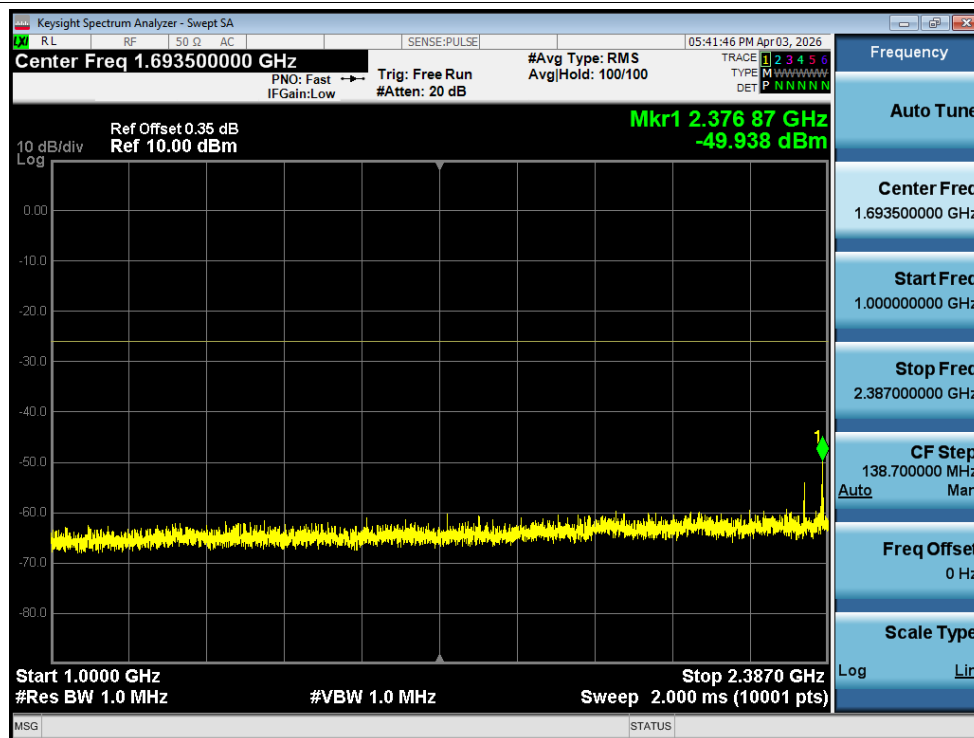
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 @ 2483.5MHz-2496.5MHz



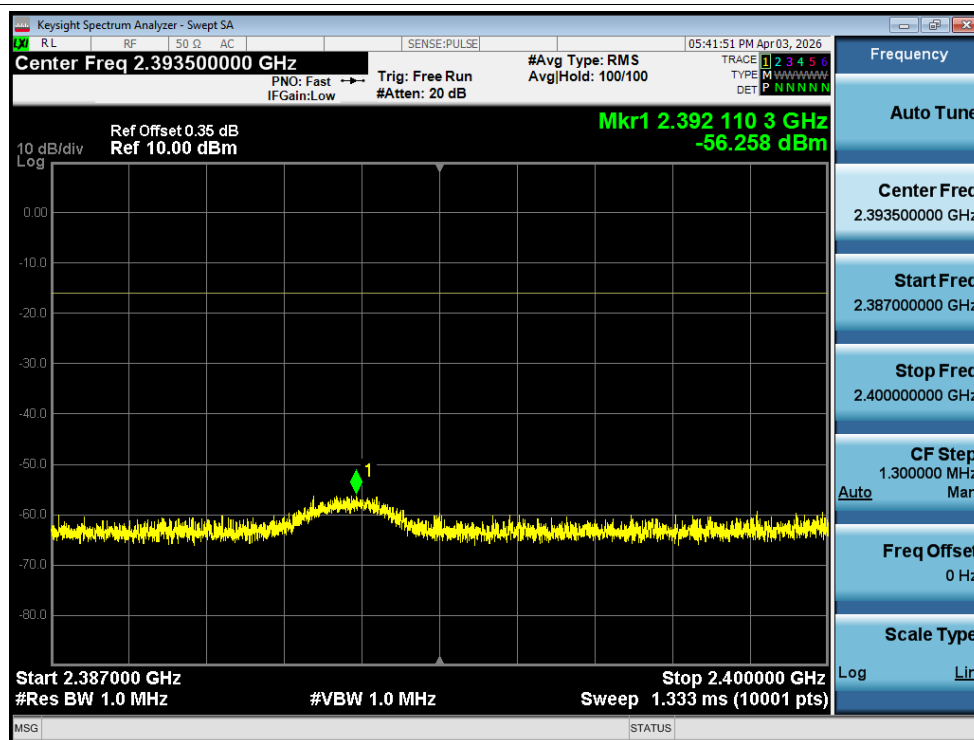
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 @ 2496.5MHz-13000MHz



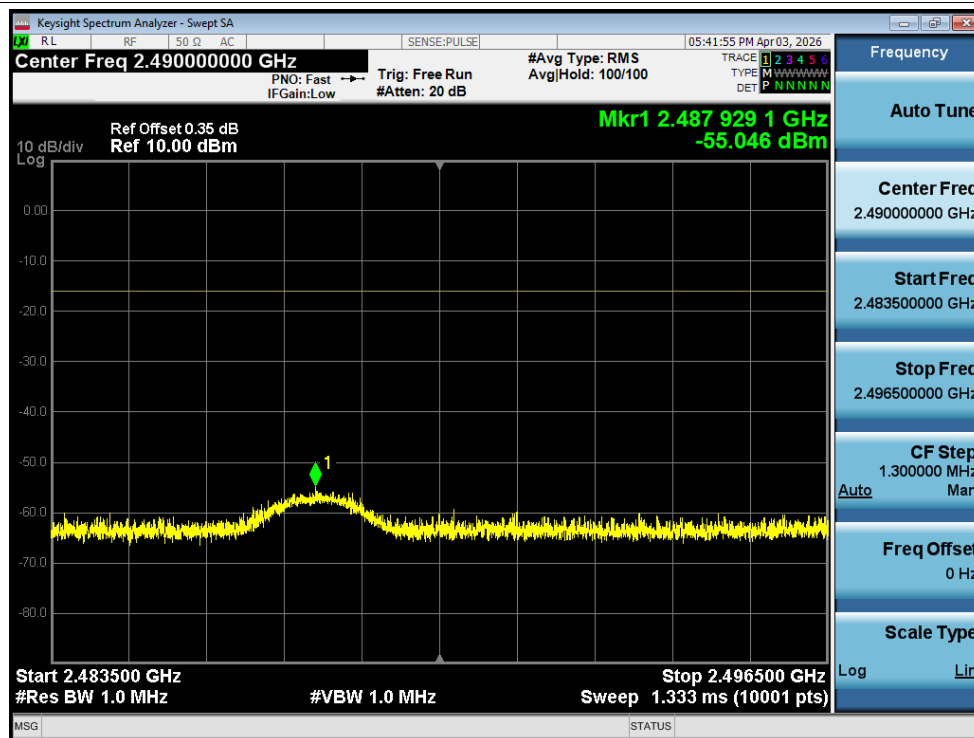
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 @ 30MHz-1000MHz



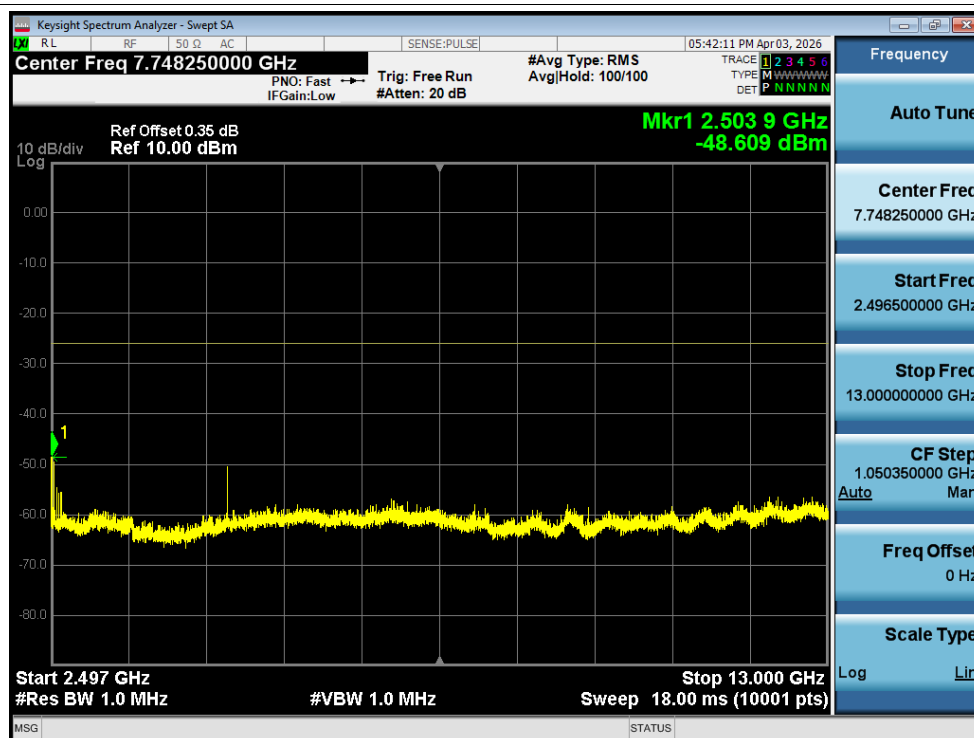
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 @ 1000MHz-2387MHz



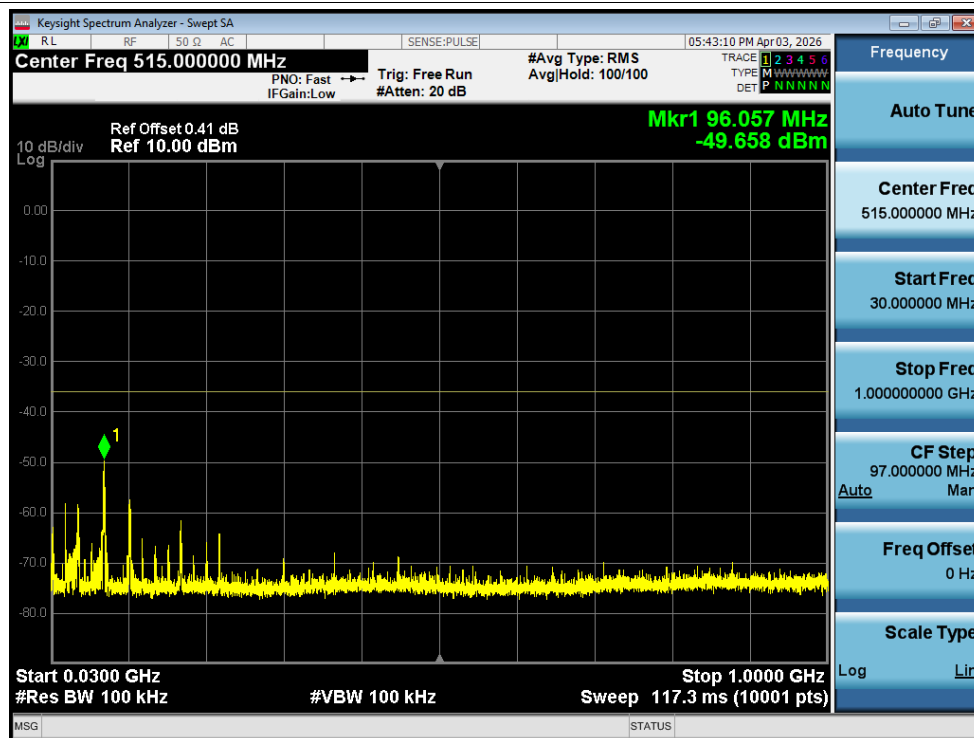
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 @ 2387MHz-2400MHz



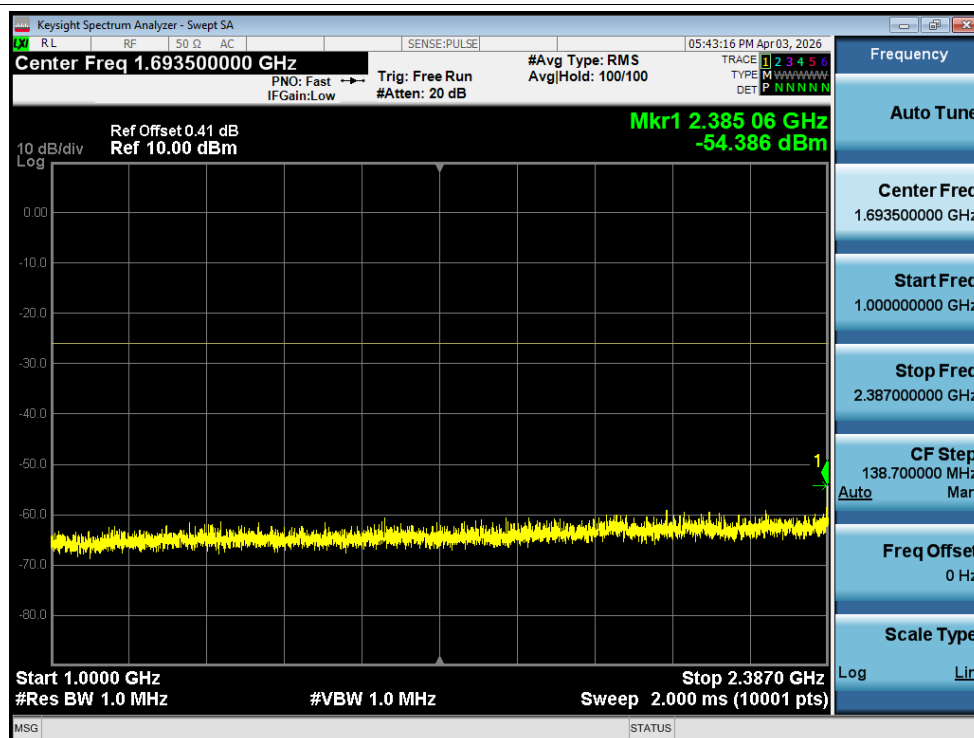
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 @ 2483.5MHz-2496.5MHz



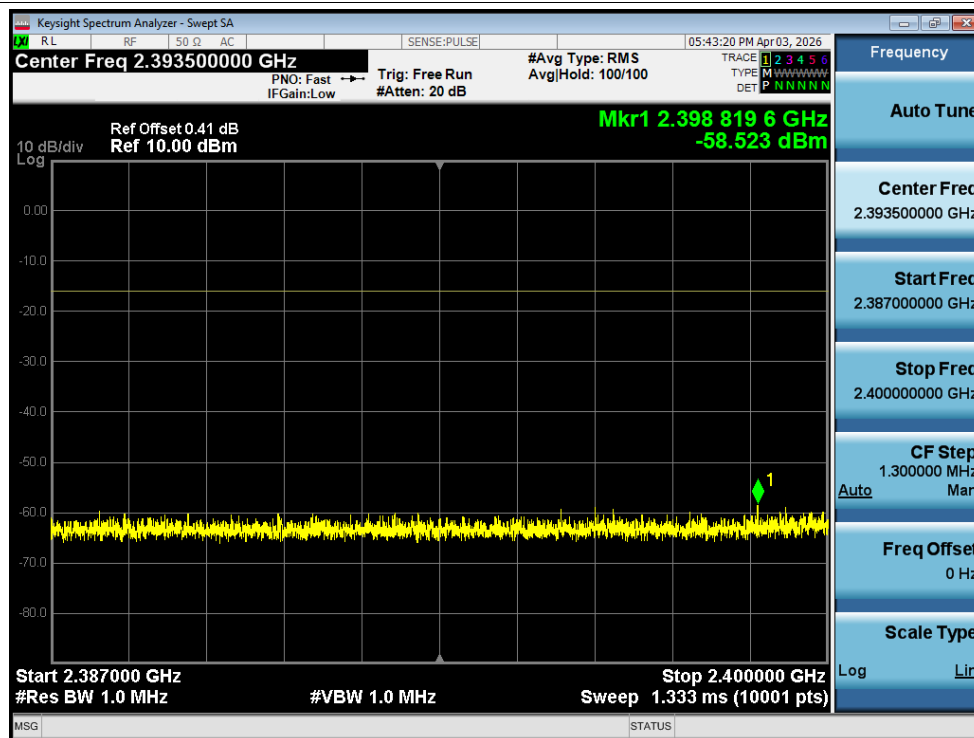
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 @ 2496.5MHz-13000MHz



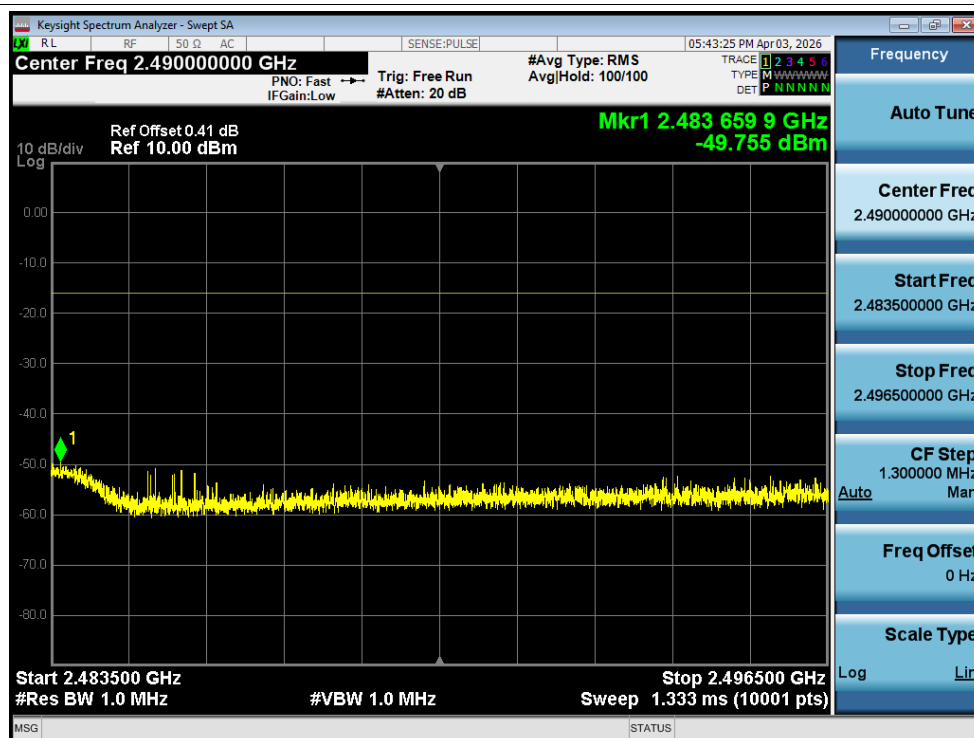
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 @ 30MHz-1000MHz



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 @ 1000MHz-2387MHz



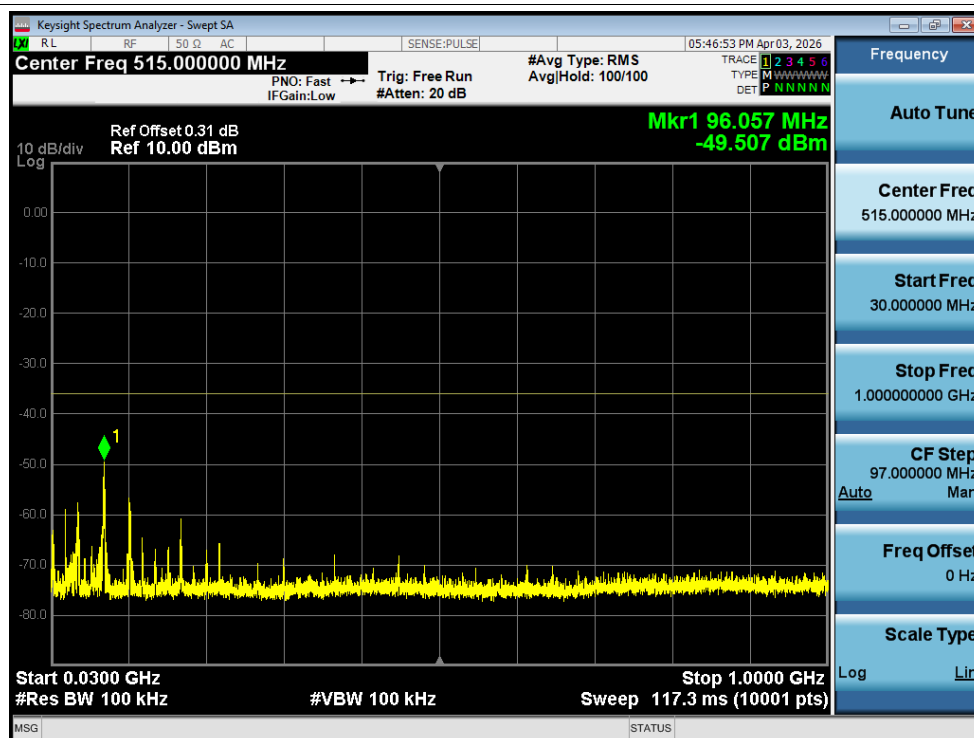
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 @ 2387MHz-2400MHz



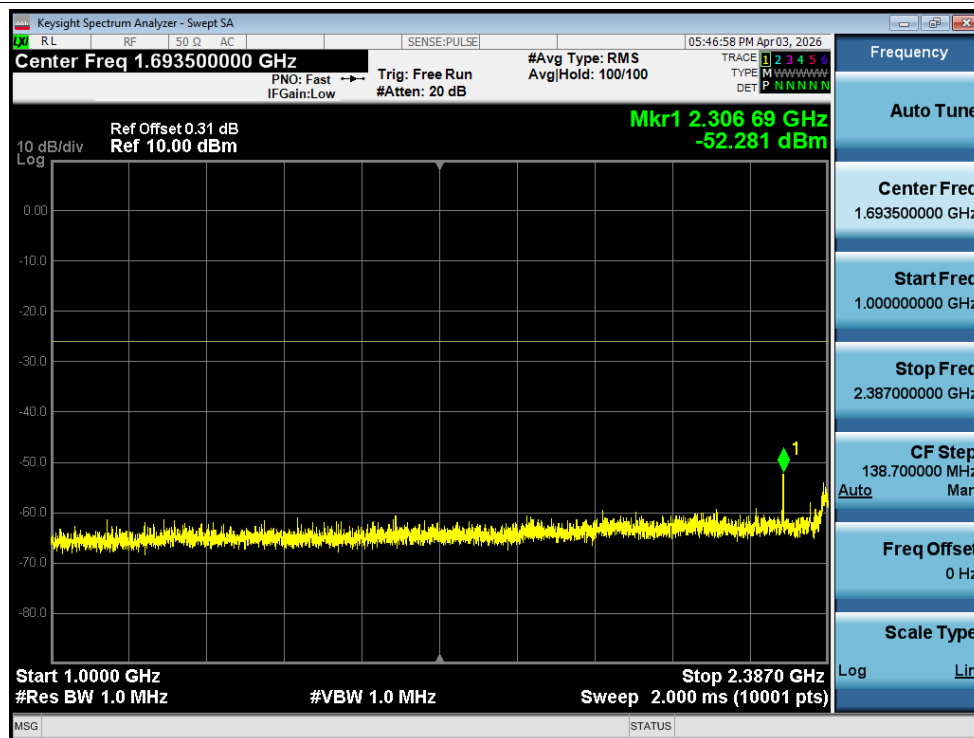
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 @ 2483.5MHz-2496.5MHz



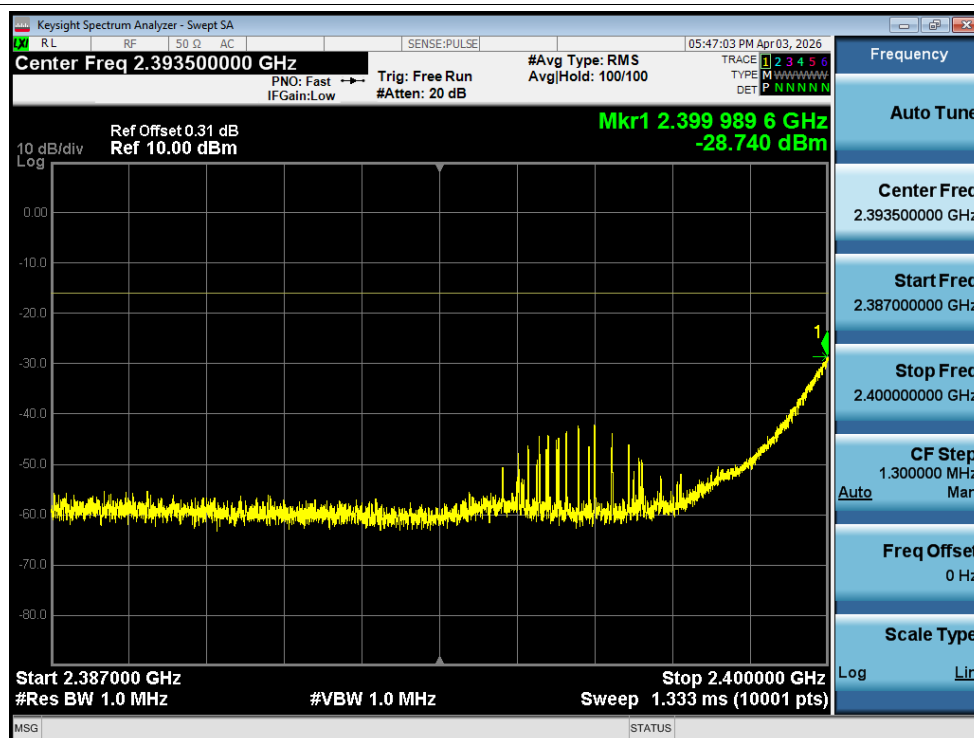
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 @ 2496.5MHz-13000MHz



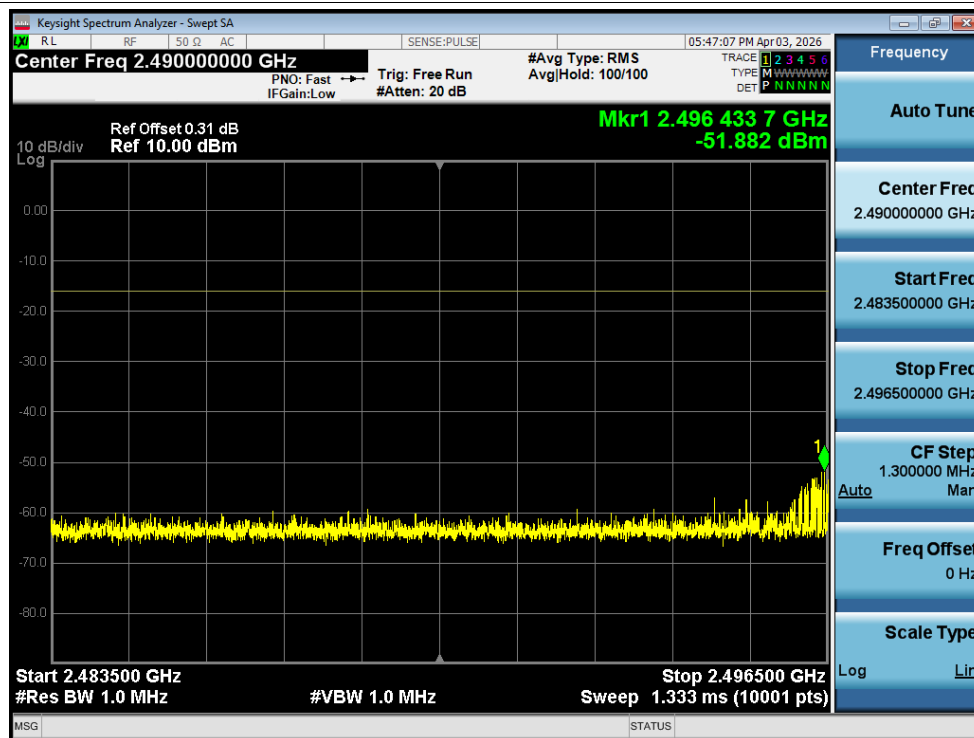
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 @ 30MHz-1000MHz



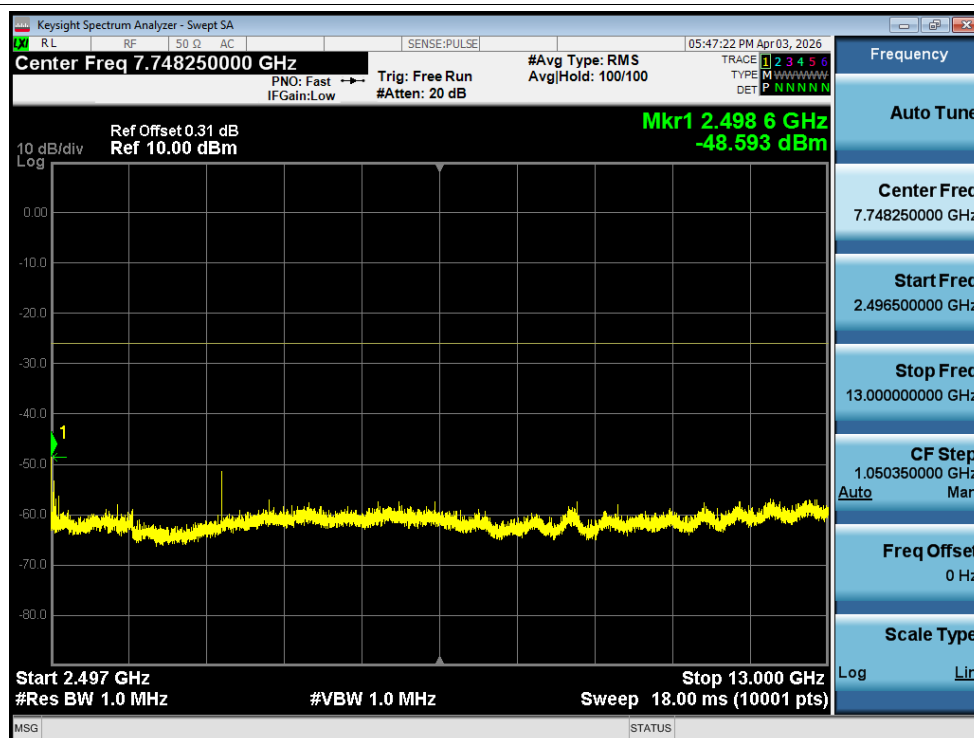
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 @ 1000MHz-2387MHz



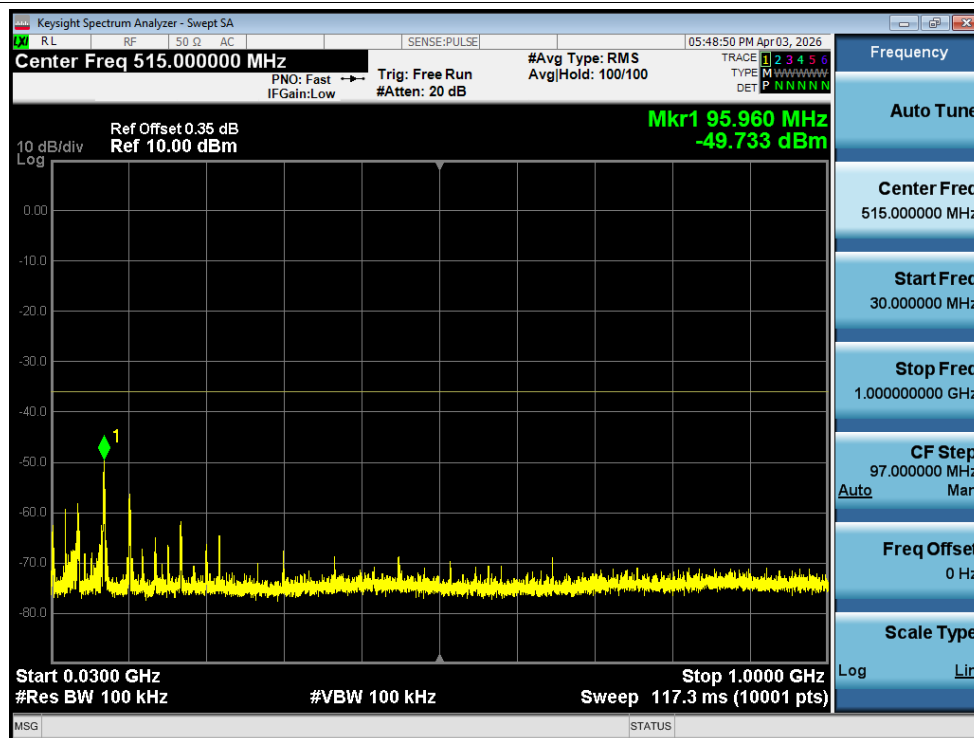
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 @ 2387MHz-2400MHz



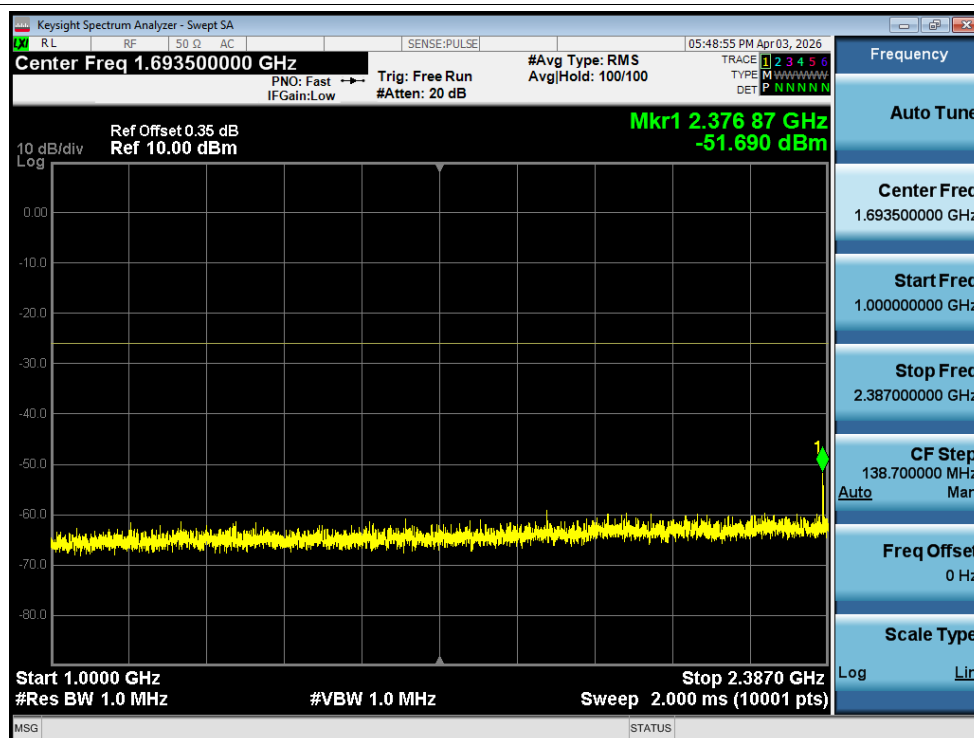
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 @ 2483.5MHz-2496.5MHz



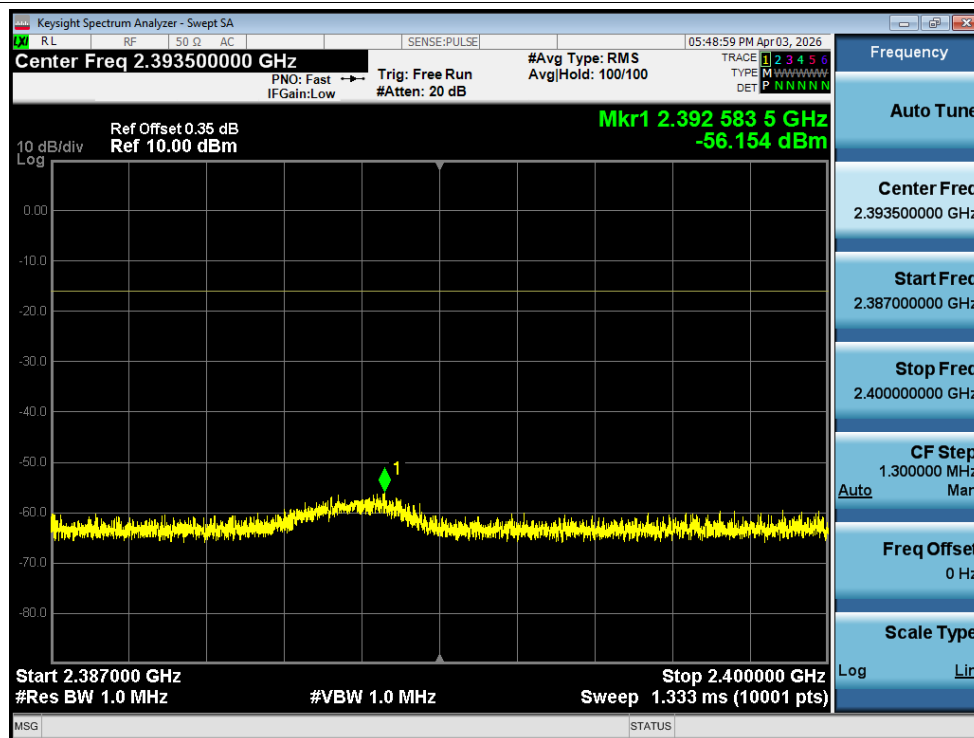
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 @ 2496.5MHz-13000MHz



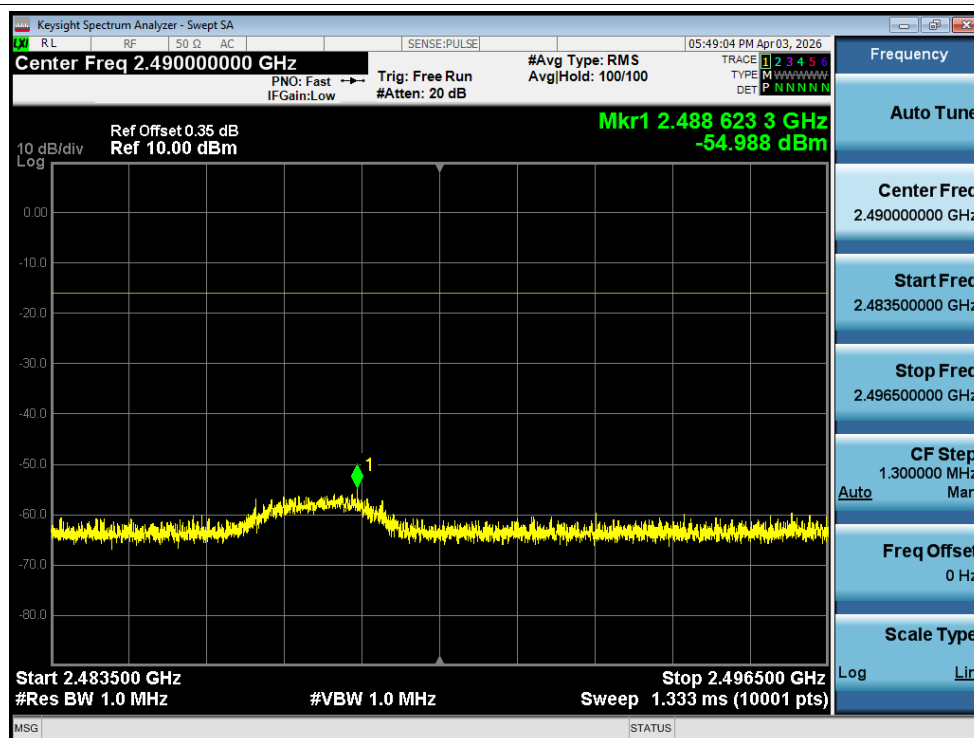
Tx. Spurious NVNT BLE 2M 2440MHz Ant1 @ 30MHz-1000MHz



Tx. Spurious NVNT BLE 2M 2440MHz Ant1 @ 1000MHz-2387MHz



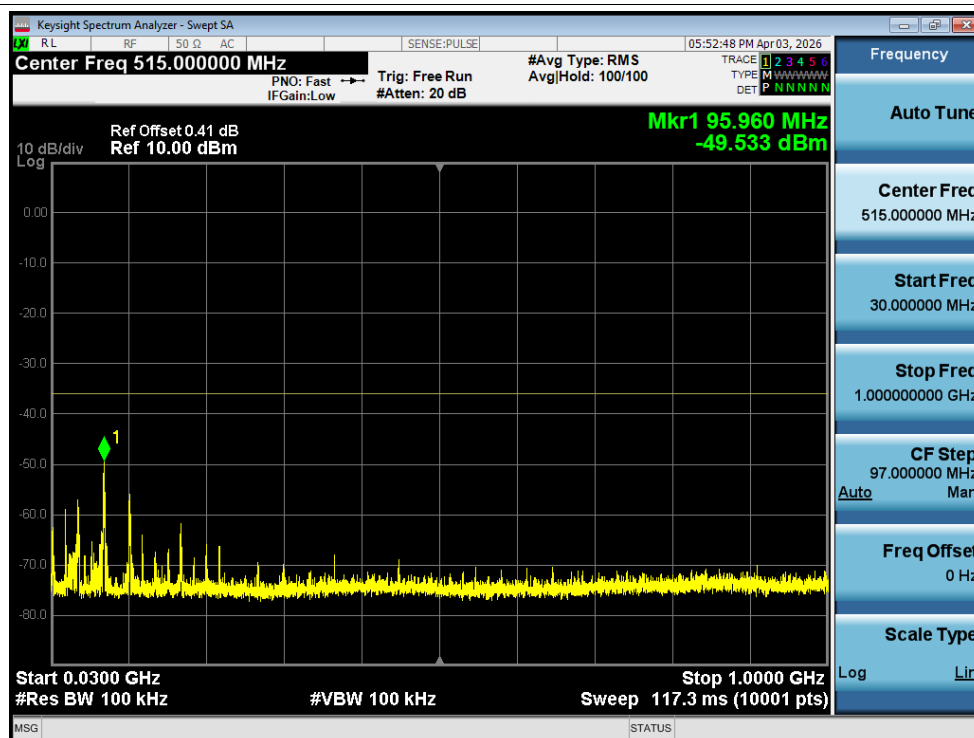
Tx. Spurious NVNT BLE 2M 2440MHz Ant1 @ 2387MHz-2400MHz



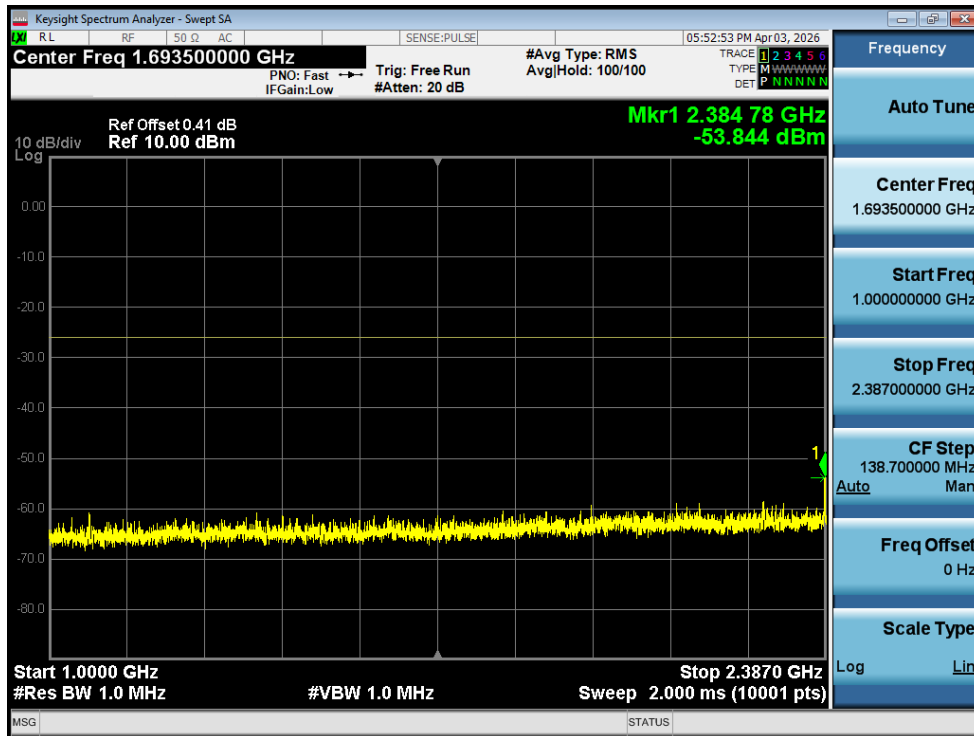
Tx. Spurious NVNT BLE 2M 2440MHz Ant1 @ 2483.5MHz-2496.5MHz



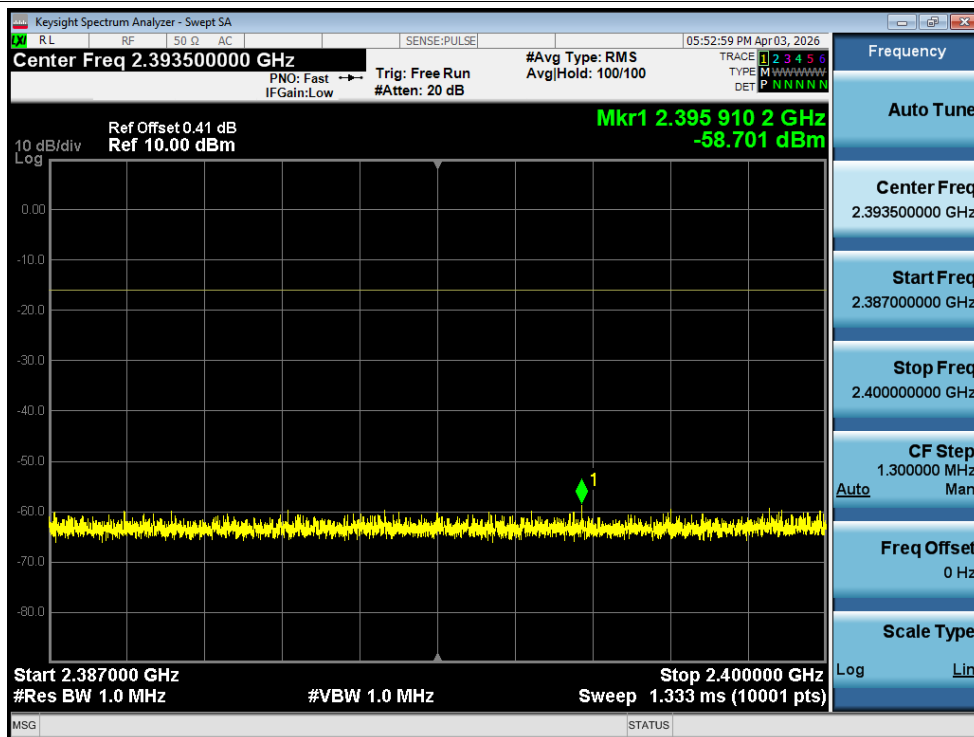
Tx. Spurious NVNT BLE 2M 2440MHz Ant1 @ 2496.5MHz-13000MHz



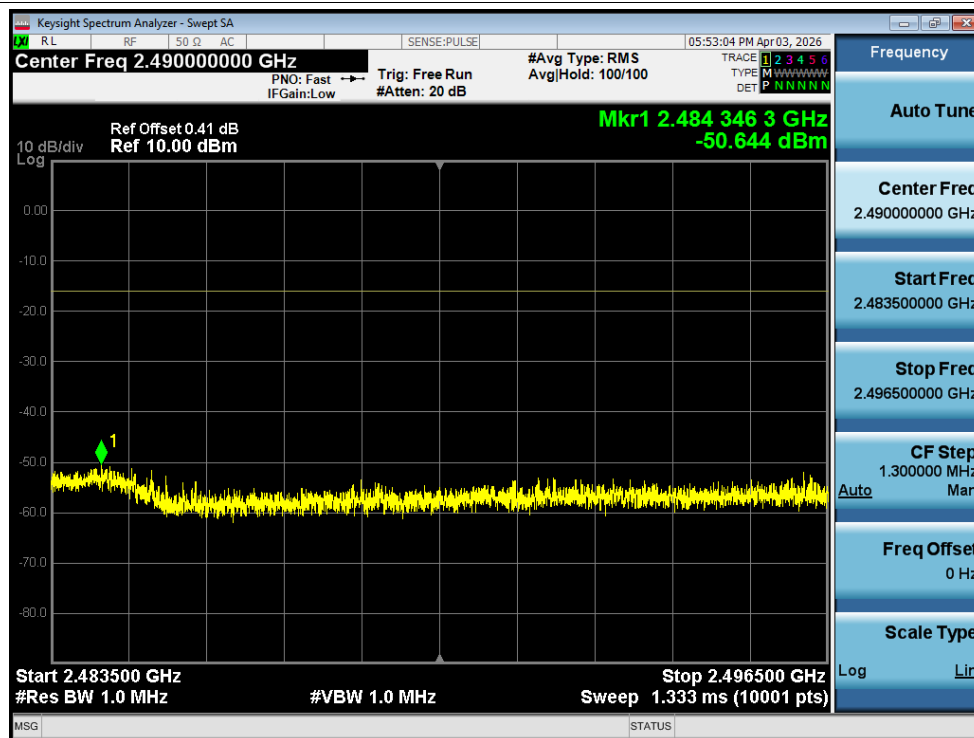
Tx. Spurious NVNT BLE 2M 2480MHz Ant1 @ 30MHz-1000MHz



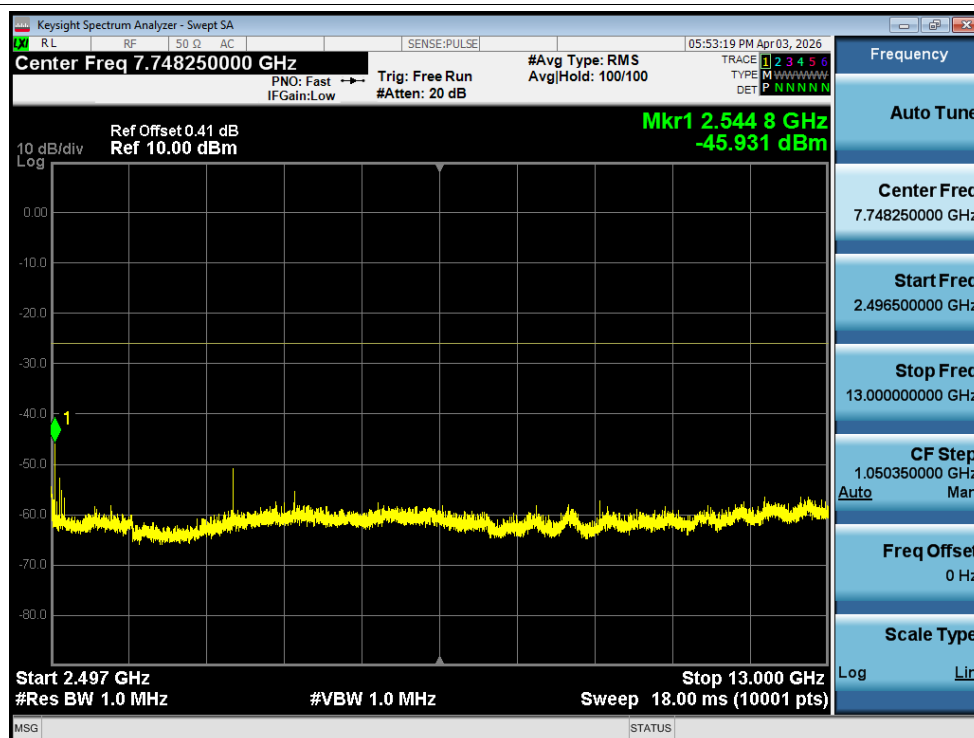
Tx. Spurious NVNT BLE 2M 2480MHz Ant1 @ 1000MHz-2387MHz



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 @ 2387MHz-2400MHz



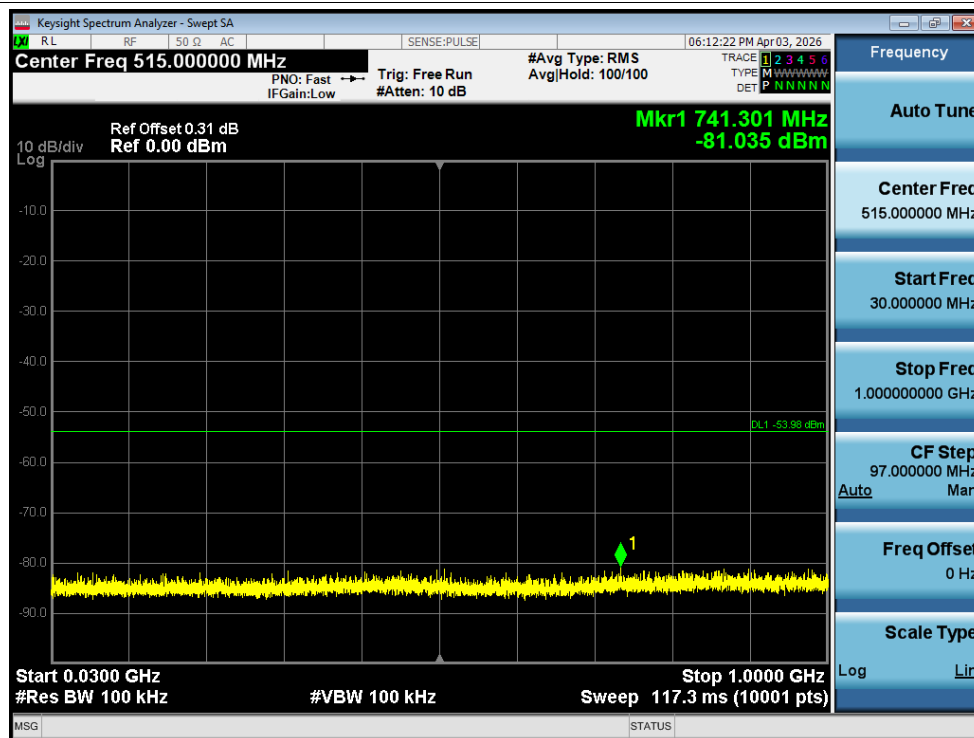
Tx. Spurious NVNT BLE 2M 2480MHz Ant1 @ 2483.5MHz-2496.5MHz



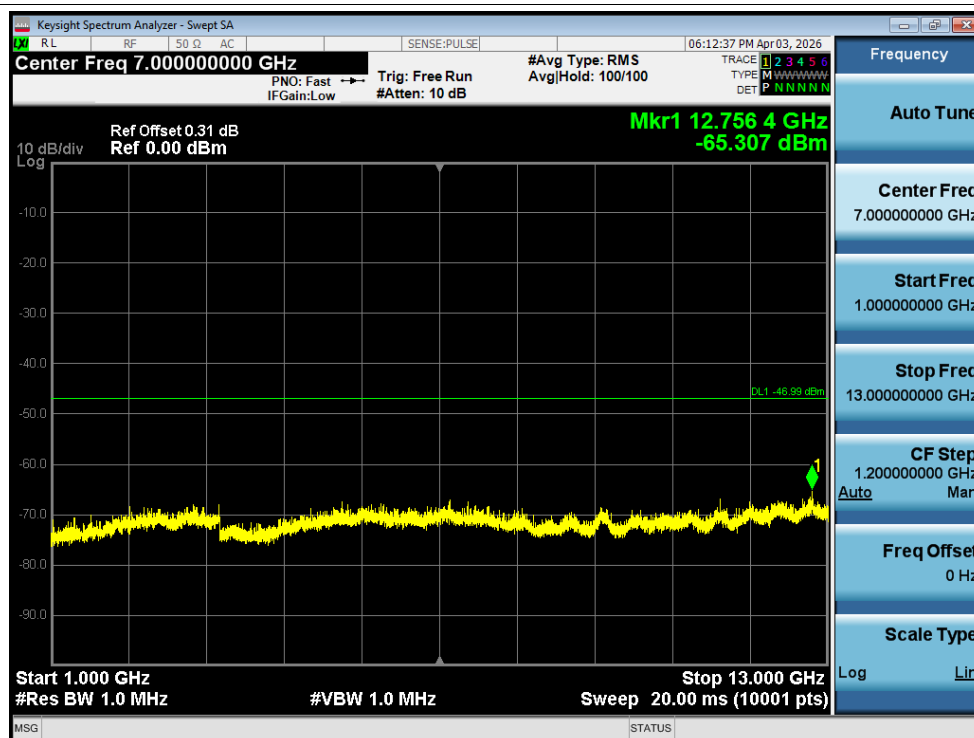
Tx. Spurious NVNT BLE 2M 2480MHz Ant1 @ 2496.5MHz-13000MHz

## Rx Spurious Emission

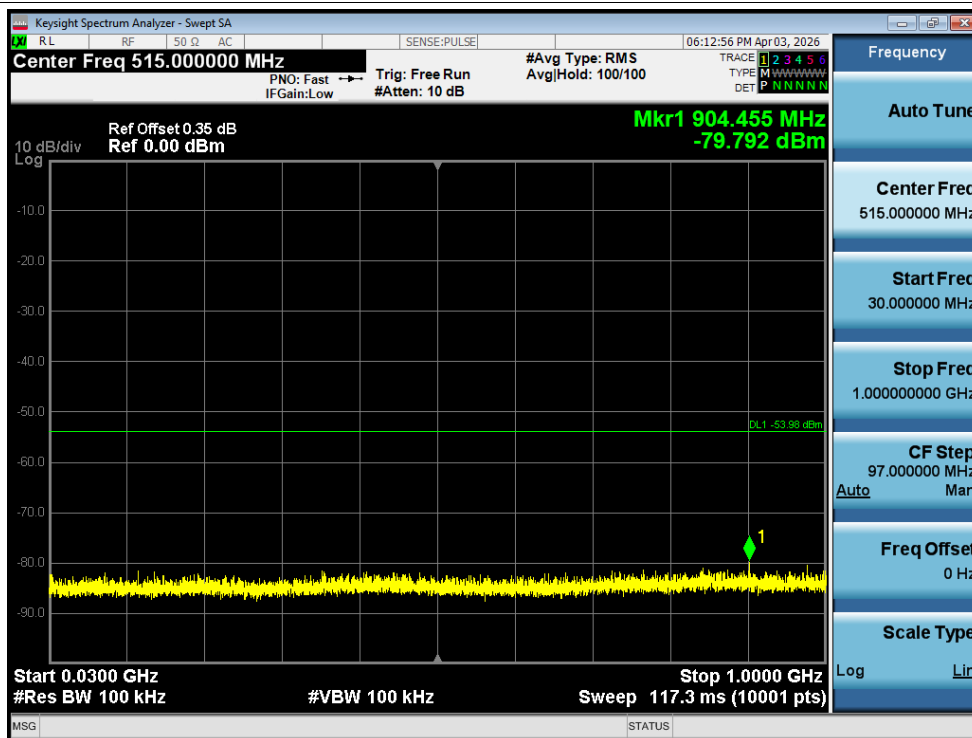
| Condition | Mode   | Frequency (MHz) | Antenna | Range (MHz) | Emission Frequency (MHz) | Max Peak Value (dBm) | Max RMS Value (dBm) | Max Peak Value (nW) | Max RMS Value (nW) | Limit (nW) | Verdict |
|-----------|--------|-----------------|---------|-------------|--------------------------|----------------------|---------------------|---------------------|--------------------|------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | 30-1000     | 741.30                   | -81.04               | NA                  | 0.0079              | NA                 | 4          | Pass    |
| NVNT      | BLE 1M | 2402            | Ant1    | 1000-13000  | 12756.40                 | -65.31               | NA                  | 0.2944              | NA                 | 20         | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | 30-1000     | 904.46                   | -79.79               | NA                  | 0.0105              | NA                 | 4          | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | 1000-13000  | 12704.80                 | -66.33               | NA                  | 0.2328              | NA                 | 20         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 30-1000     | 904.75                   | -79.56               | NA                  | 0.0111              | NA                 | 4          | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 1000-13000  | 5747.20                  | -65.45               | NA                  | 0.2851              | NA                 | 20         | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 30-1000     | 927.06                   | -80.32               | NA                  | 0.0093              | NA                 | 4          | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 1000-13000  | 12782.80                 | -66.72               | NA                  | 0.2128              | NA                 | 20         | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | 30-1000     | 942.48                   | -80.63               | NA                  | 0.0086              | NA                 | 4          | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | 1000-13000  | 12784.00                 | -66.88               | NA                  | 0.2051              | NA                 | 20         | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | 30-1000     | 858.19                   | -79.84               | NA                  | 0.0104              | NA                 | 4          | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | 1000-13000  | 12216.40                 | -66.60               | NA                  | 0.2188              | NA                 | 20         | Pass    |



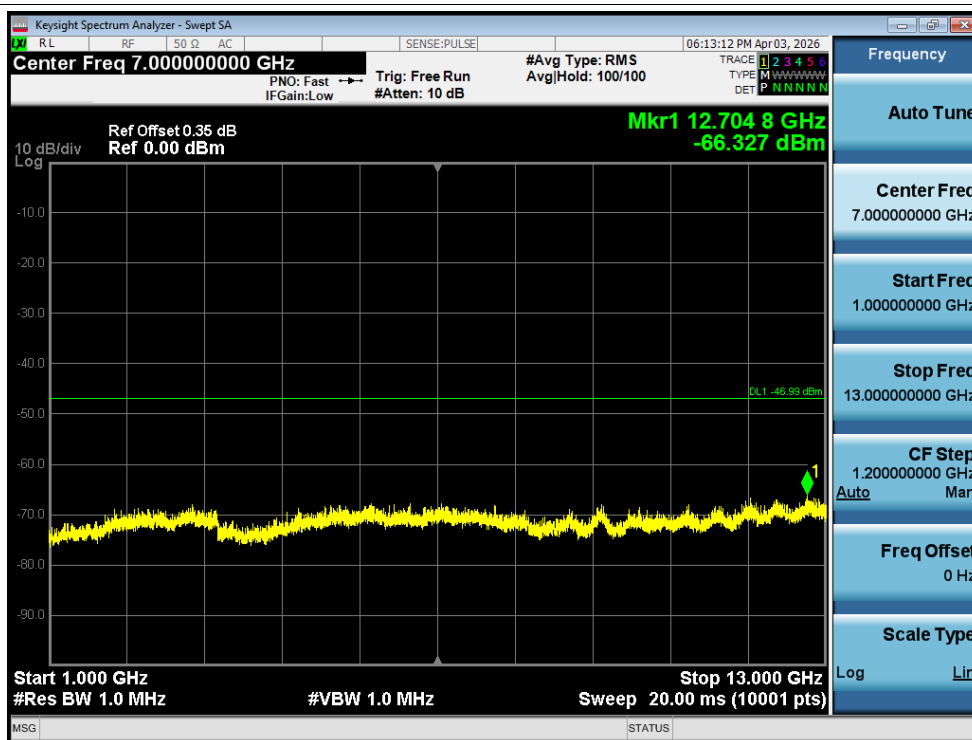
Rx. Spurious NVNT BLE 1M 2402MHz Ant1 @ 30MHz-1000MHz



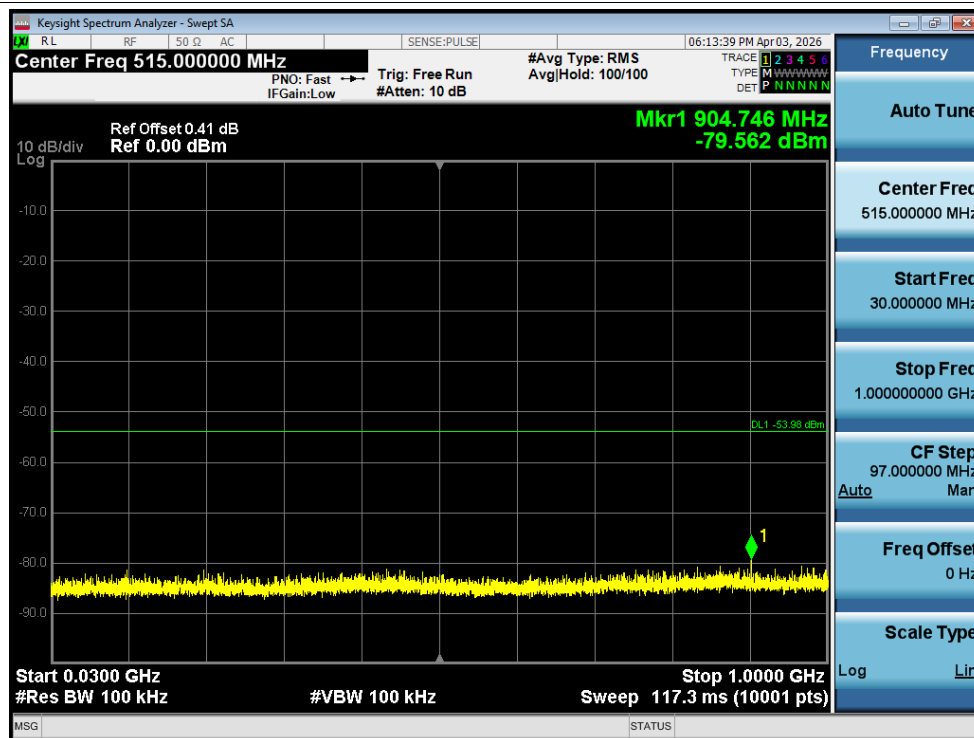
Rx. Spurious NVNT BLE 1M 2402MHz Ant1 @ 1000MHz-13000MHz



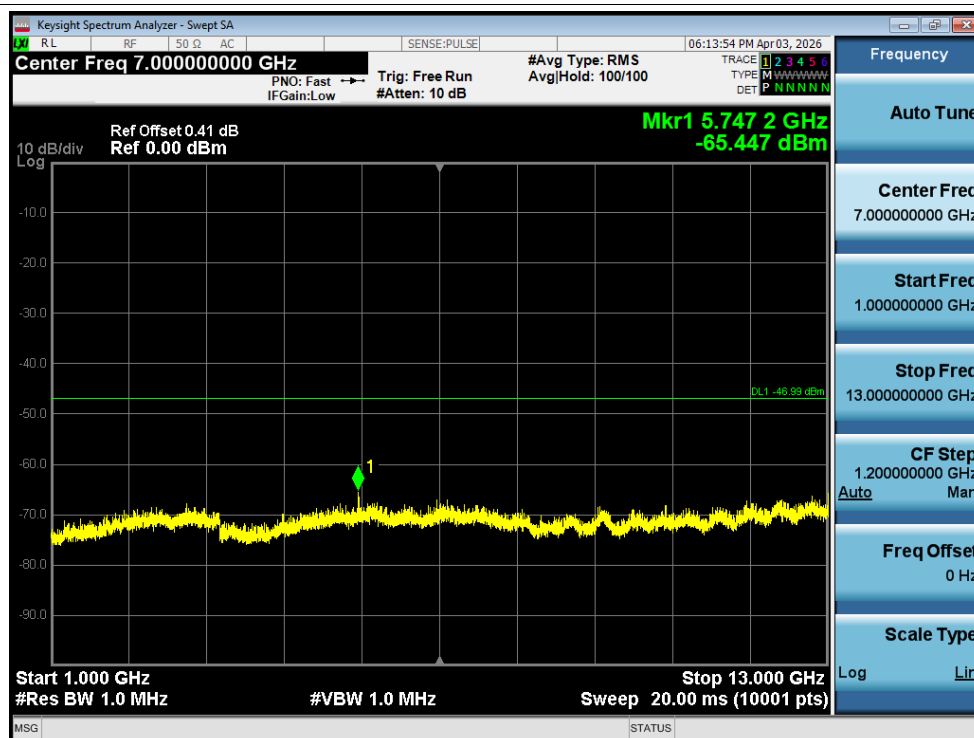
Rx. Spurious NVNT BLE 1M 2440MHz Ant1 @ 30MHz-1000MHz



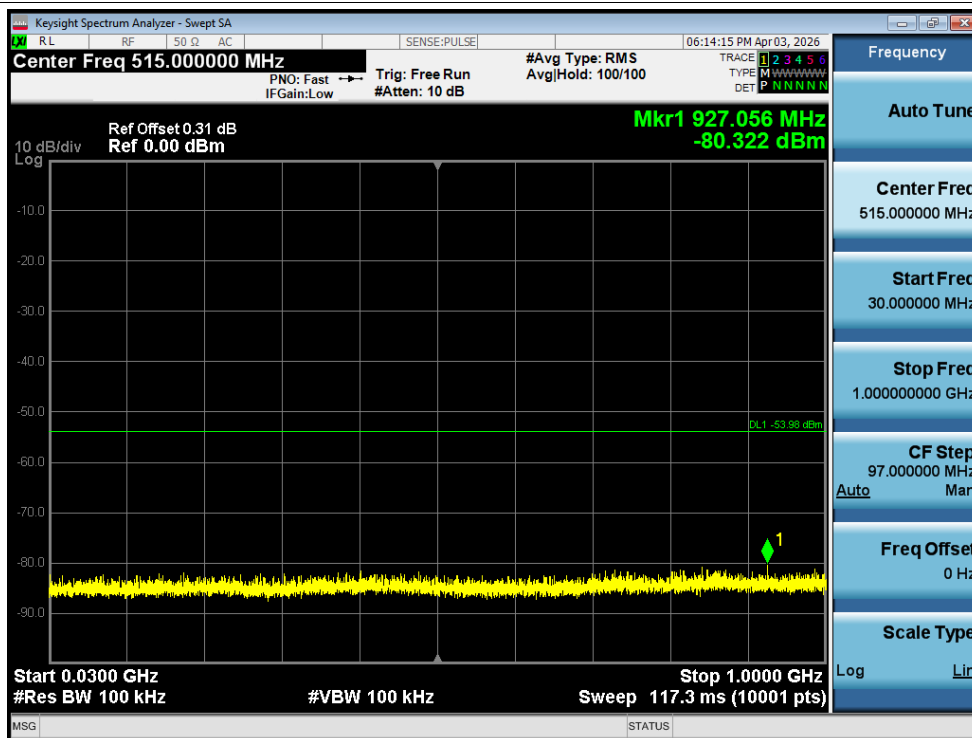
Rx. Spurious NVNT BLE 1M 2440MHz Ant1 @ 1000MHz-13000MHz



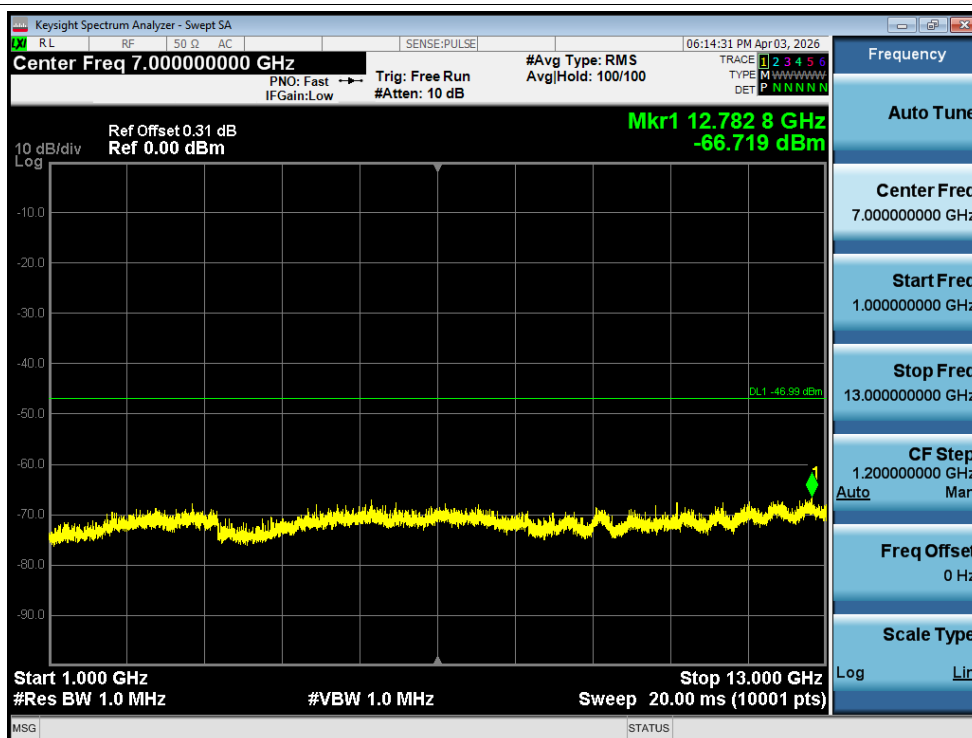
Rx. Spurious NVNT BLE 1M 2480MHz Ant1 @ 30MHz-1000MHz



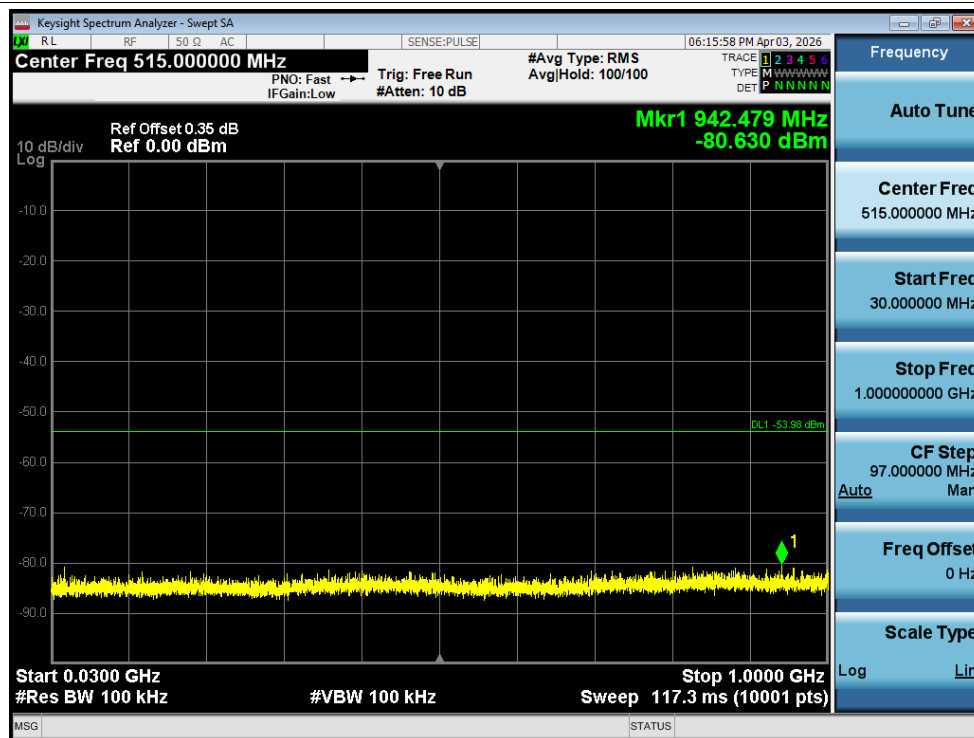
Rx. Spurious NVNT BLE 1M 2480MHz Ant1 @ 1000MHz-13000MHz



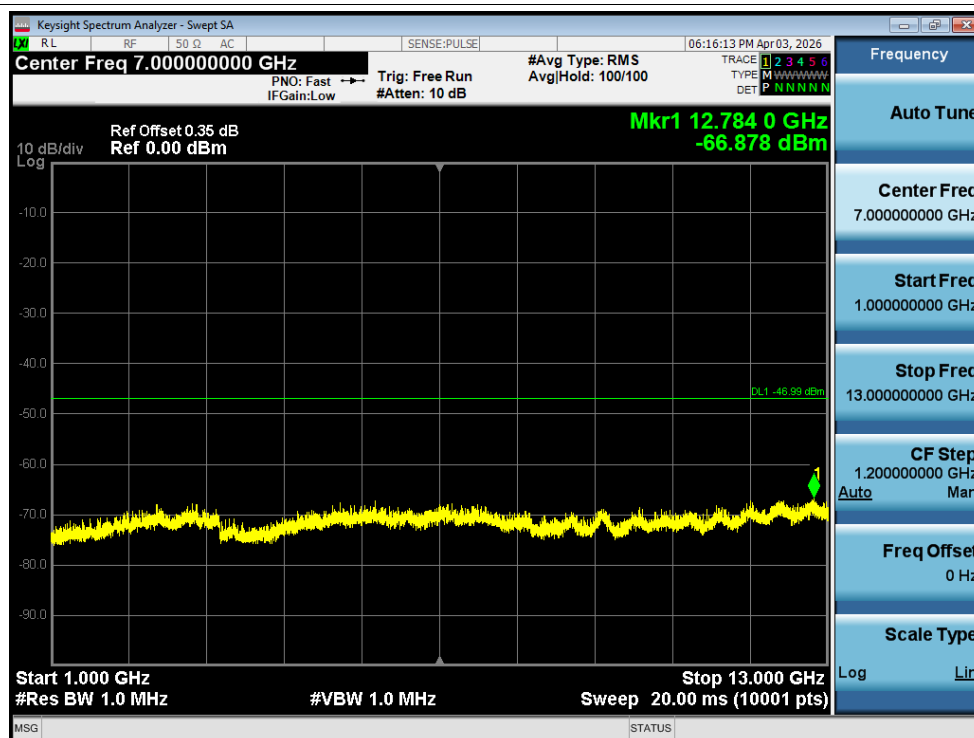
Rx. Spurious NVNT BLE 2M 2402MHz Ant1 @ 30MHz-1000MHz



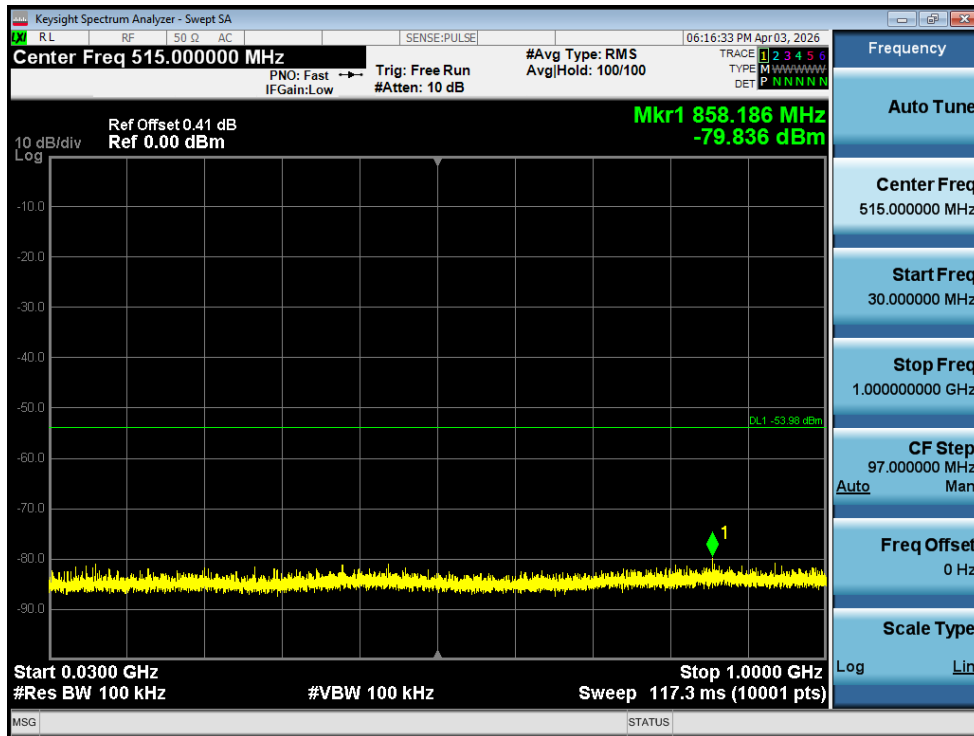
Rx. Spurious NVNT BLE 2M 2402MHz Ant1 @ 1000MHz-13000MHz



Rx. Spurious NVNT BLE 2M 2440MHz Ant1 @ 30MHz-1000MHz



Rx. Spurious NVNT BLE 2M 2440MHz Ant1 @ 1000MHz-13000MHz



Rx. Spurious NVNT BLE 2M 2480MHz Ant1 @ 30MHz-1000MHz



Rx. Spurious NVNT BLE 2M 2480MHz Ant1 @ 1000MHz-13000MHz