

# Appendix A

## Maximum Conducted Output Power

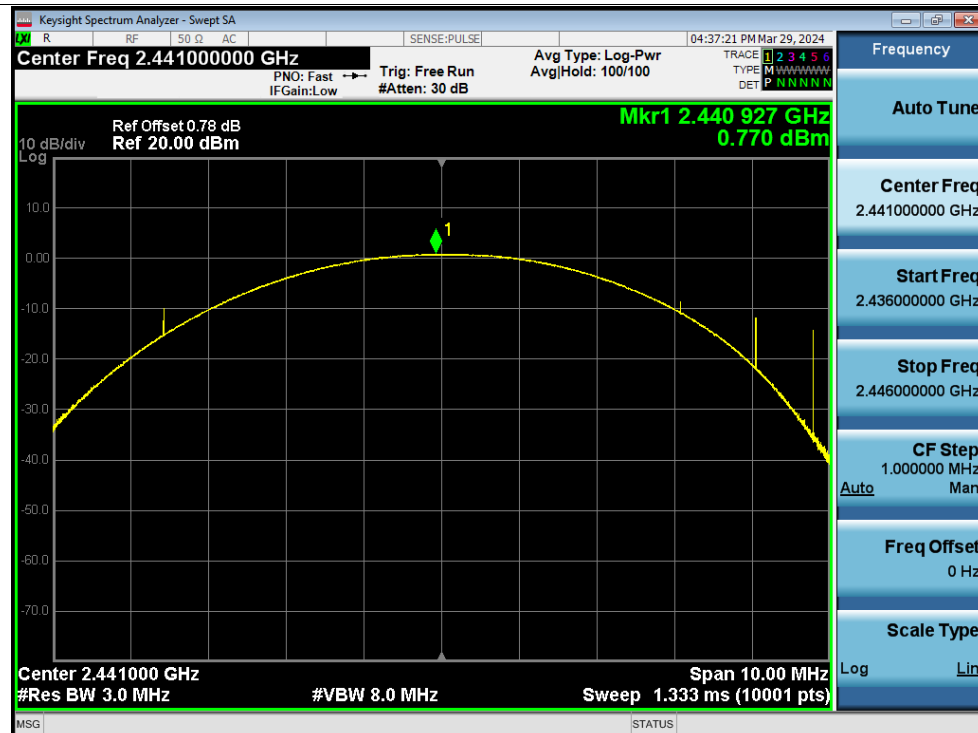
| Condition | Mode  | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|-------|-----------------|---------|-----------------------|------------------|-------------------|-------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | -0.67                 | 0                | -0.67             | 21          | Pass    |
| NVNT      | 1-DH5 | 2441            | Ant1    | 0.77                  | 0                | 0.77              | 21          | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | 1.57                  | 0                | 1.57              | 21          | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | -0.67                 | 0                | -0.67             | 21          | Pass    |
| NVNT      | 2-DH5 | 2441            | Ant1    | 0.74                  | 0                | 0.74              | 21          | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | 1.64                  | 0                | 1.64              | 21          | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | -0.62                 | 0                | -0.62             | 21          | Pass    |
| NVNT      | 3-DH5 | 2441            | Ant1    | 0.78                  | 0                | 0.78              | 21          | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | 1.67                  | 0                | 1.67              | 21          | Pass    |

## Test Graphs

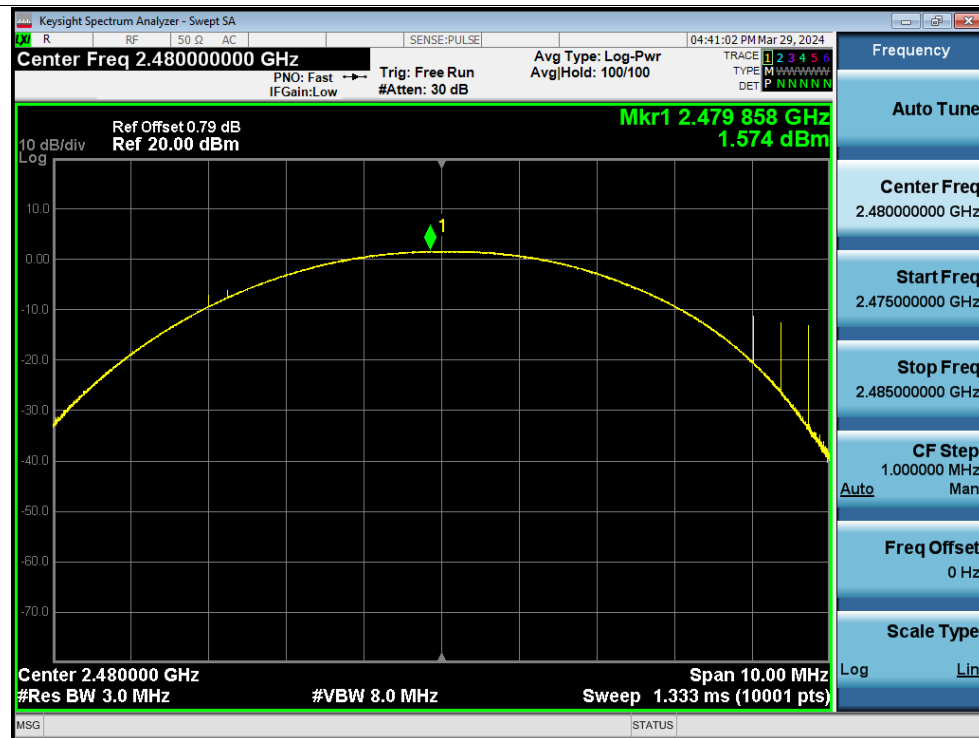
Power NVNT 1-DH5 2402MHz Ant1



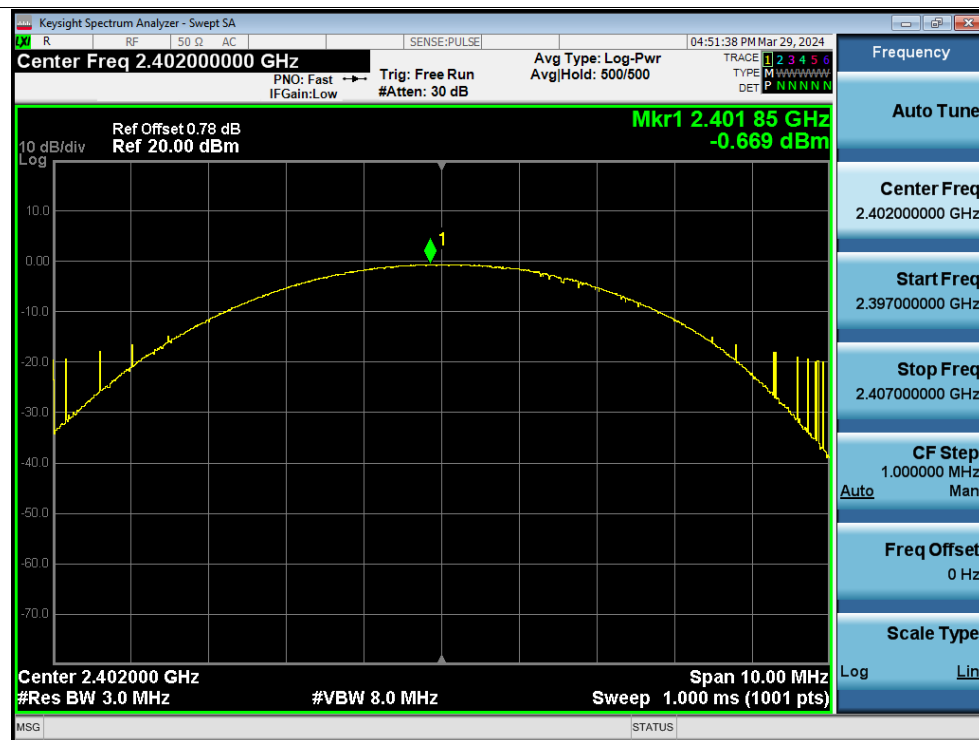
Power NVNT 1-DH5 2441MHz Ant1



Power NVNT 1-DH5 2480MHz Ant1



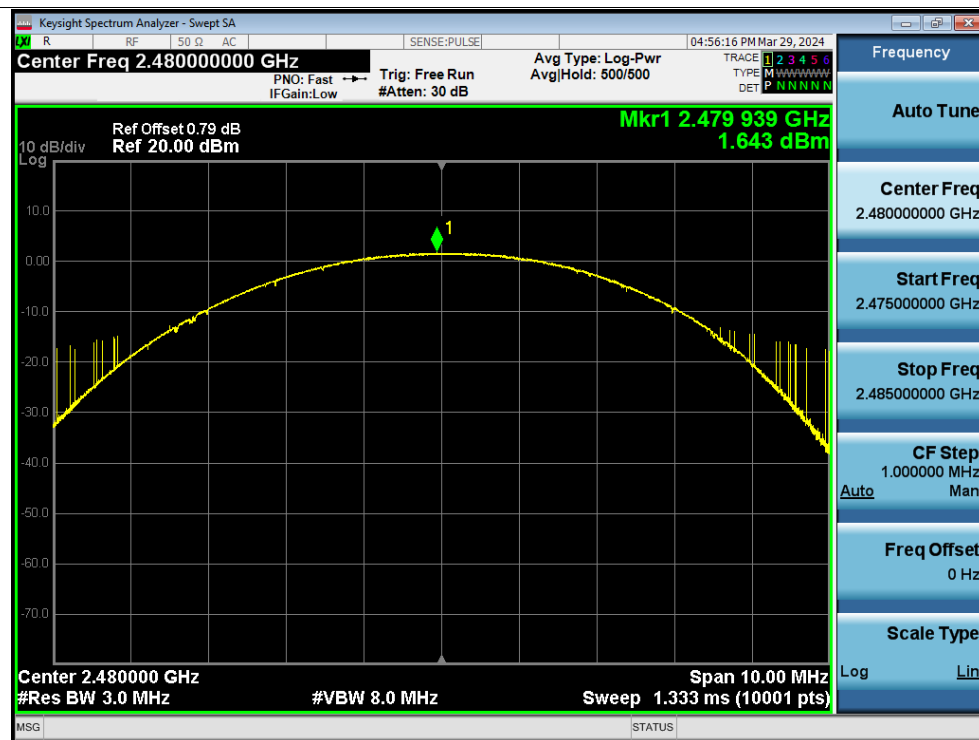
Power NVNT 2-DH5 2402MHz Ant1



Power NVNT 2-DH5 2441MHz Ant1



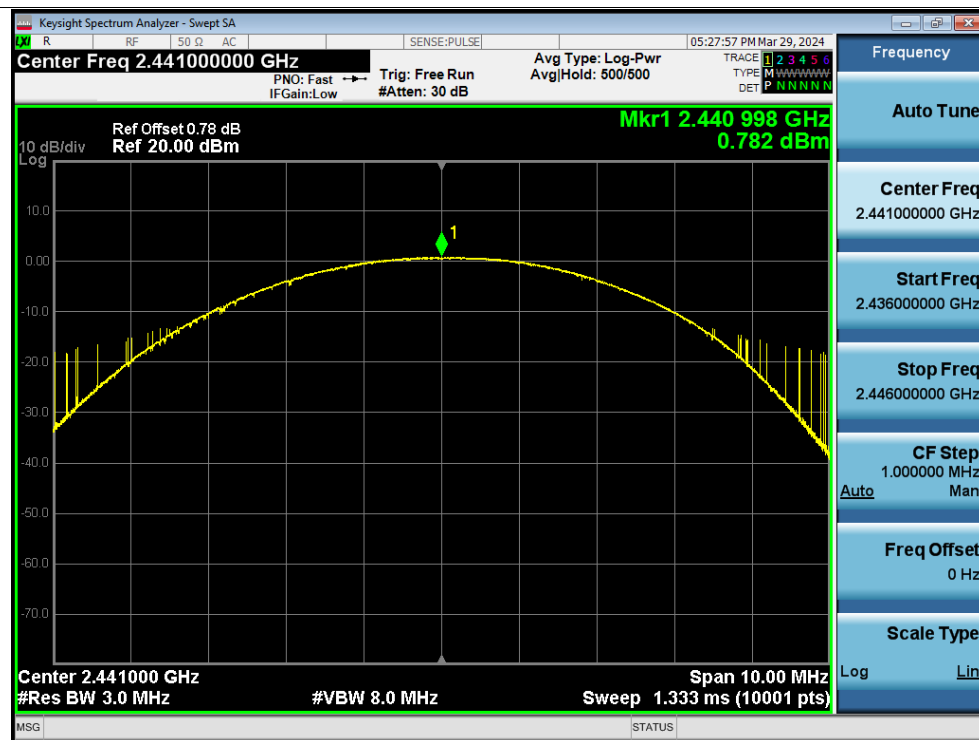
Power NVNT 2-DH5 2480MHz Ant1

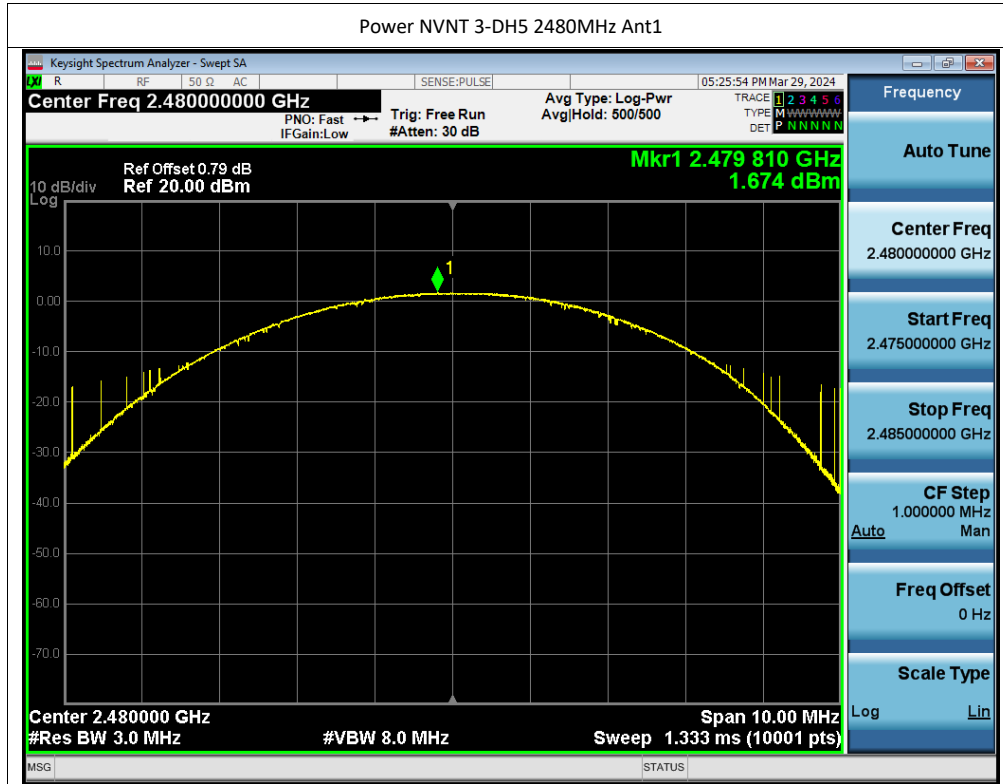


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1





## -20dB Bandwidth

| Condition | Mode  | Frequency (MHz) | Antenna | -20 dB Bandwidth (MHz) | Limit -20 dB Bandwidth (MHz) | Verdict |
|-----------|-------|-----------------|---------|------------------------|------------------------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | 0.94                   | N/A                          | N/A     |
| NVNT      | 1-DH5 | 2441            | Ant1    | 0.96                   | N/A                          | N/A     |
| NVNT      | 1-DH5 | 2480            | Ant1    | 0.95                   | N/A                          | N/A     |
| NVNT      | 2-DH5 | 2402            | Ant1    | 1.2                    | N/A                          | N/A     |
| NVNT      | 2-DH5 | 2441            | Ant1    | 1.25                   | N/A                          | N/A     |
| NVNT      | 2-DH5 | 2480            | Ant1    | 1.2                    | N/A                          | N/A     |
| NVNT      | 3-DH5 | 2402            | Ant1    | 1.26                   | N/A                          | N/A     |
| NVNT      | 3-DH5 | 2441            | Ant1    | 1.24                   | N/A                          | N/A     |
| NVNT      | 3-DH5 | 2480            | Ant1    | 1.28                   | N/A                          | N/A     |

## Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

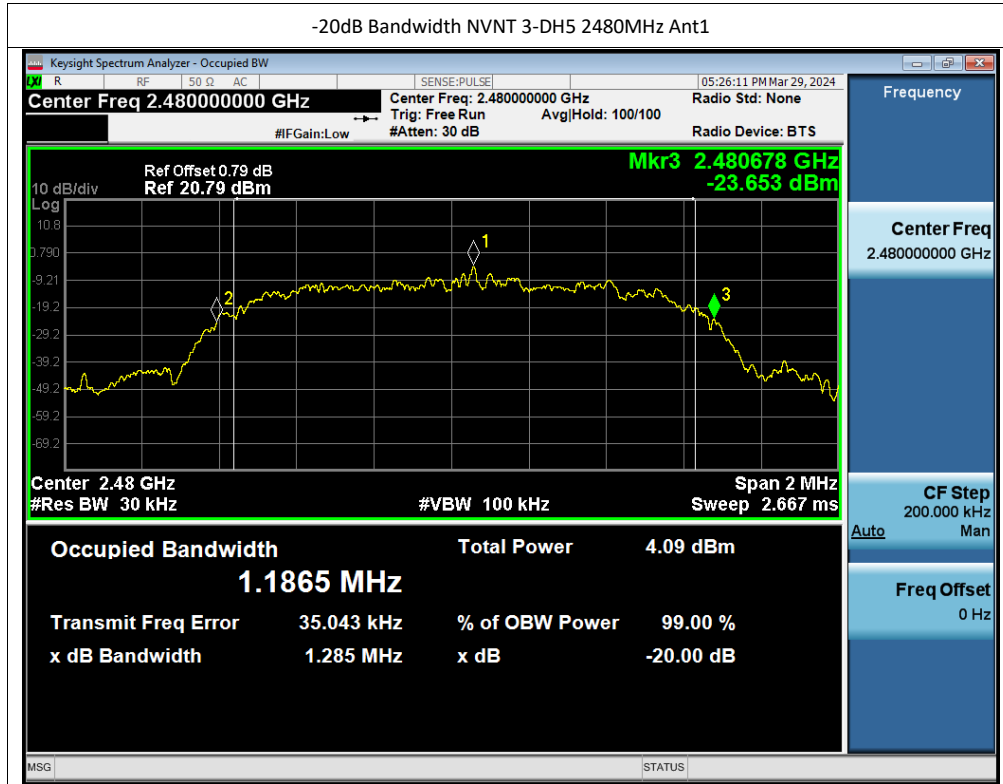


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





## Occupied Channel Bandwidth

| Condition | Mode  | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|-------|-----------------|---------|---------------|
| NVNT      | 1-DH5 | 2402            | Ant1    | 0.841         |
| NVNT      | 1-DH5 | 2441            | Ant1    | 0.844         |
| NVNT      | 1-DH5 | 2480            | Ant1    | 0.845         |
| NVNT      | 2-DH5 | 2402            | Ant1    | 1.178         |
| NVNT      | 2-DH5 | 2441            | Ant1    | 1.146         |
| NVNT      | 2-DH5 | 2480            | Ant1    | 1.163         |
| NVNT      | 3-DH5 | 2402            | Ant1    | 1.153         |
| NVNT      | 3-DH5 | 2441            | Ant1    | 1.139         |
| NVNT      | 3-DH5 | 2480            | Ant1    | 1.169         |

## Test Graphs

OBW NVNT 1-DH5 2402MHz Ant1



OBW NVNT 1-DH5 2441MHz Ant1

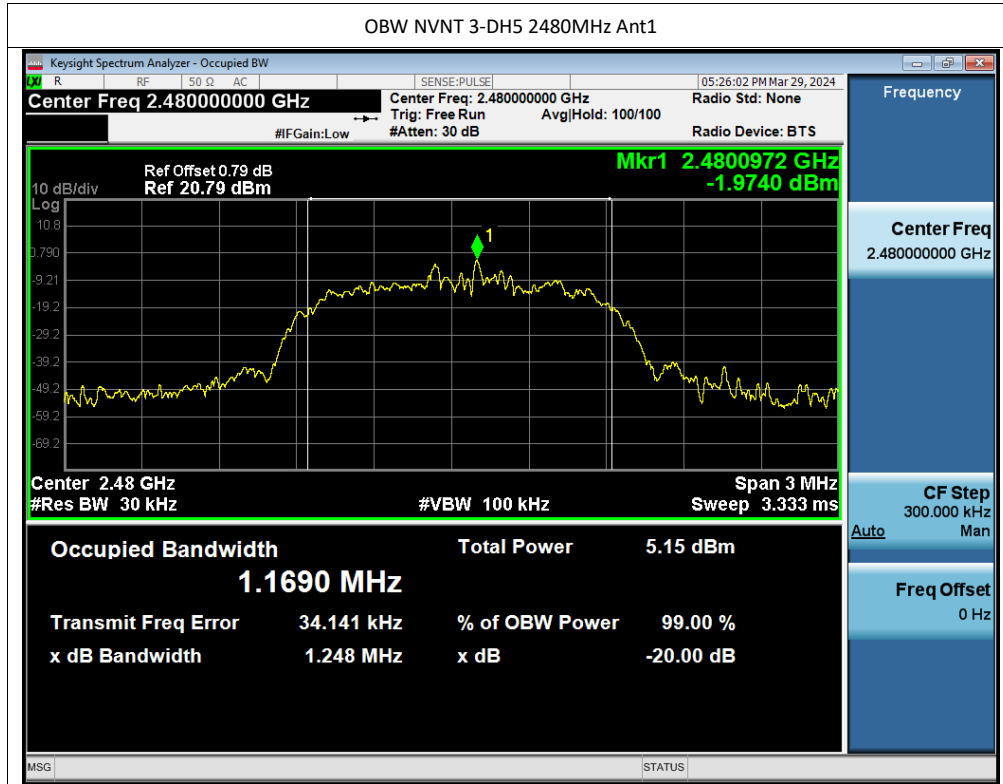












## Carrier Frequencies Separation

| Condition | Mode  | Antenna | Hopping Freq1 (MHz) | Hopping Freq2 (MHz) | HFS (MHz) | Limit (MHz) | Verdict |
|-----------|-------|---------|---------------------|---------------------|-----------|-------------|---------|
| NVNT      | 1-DH5 | Ant1    | 2401.998            | 2403.026            | 1.028     | 0.627       | Pass    |
| NVNT      | 1-DH5 | Ant1    | 2441.046            | 2442.012            | 0.966     | 0.64        | Pass    |
| NVNT      | 1-DH5 | Ant1    | 2479.008            | 2480.042            | 1.034     | 0.633       | Pass    |
| NVNT      | 2-DH5 | Ant1    | 2401.928            | 2402.858            | 0.93      | 0.8         | Pass    |
| NVNT      | 2-DH5 | Ant1    | 2440.906            | 2441.932            | 1.026     | 0.833       | Pass    |
| NVNT      | 2-DH5 | Ant1    | 2479.038            | 2480.014            | 0.976     | 0.8         | Pass    |
| NVNT      | 3-DH5 | Ant1    | 2402.088            | 2403.024            | 0.936     | 0.025       | Pass    |
| NVNT      | 3-DH5 | Ant1    | 2441.02             | 2442.056            | 1.036     | 0.025       | Pass    |
| NVNT      | 3-DH5 | Ant1    | 2479.138            | 2480.074            | 0.936     | 0.025       | Pass    |

## Test Graphs

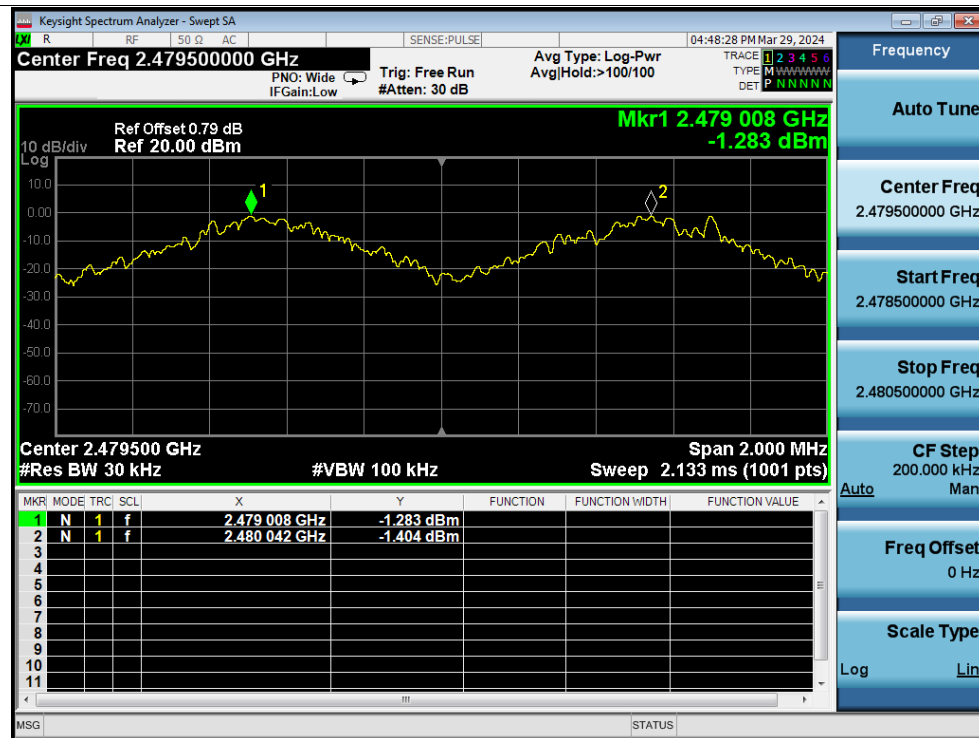
CFS NVNT 1-DH5 2402MHz Ant1



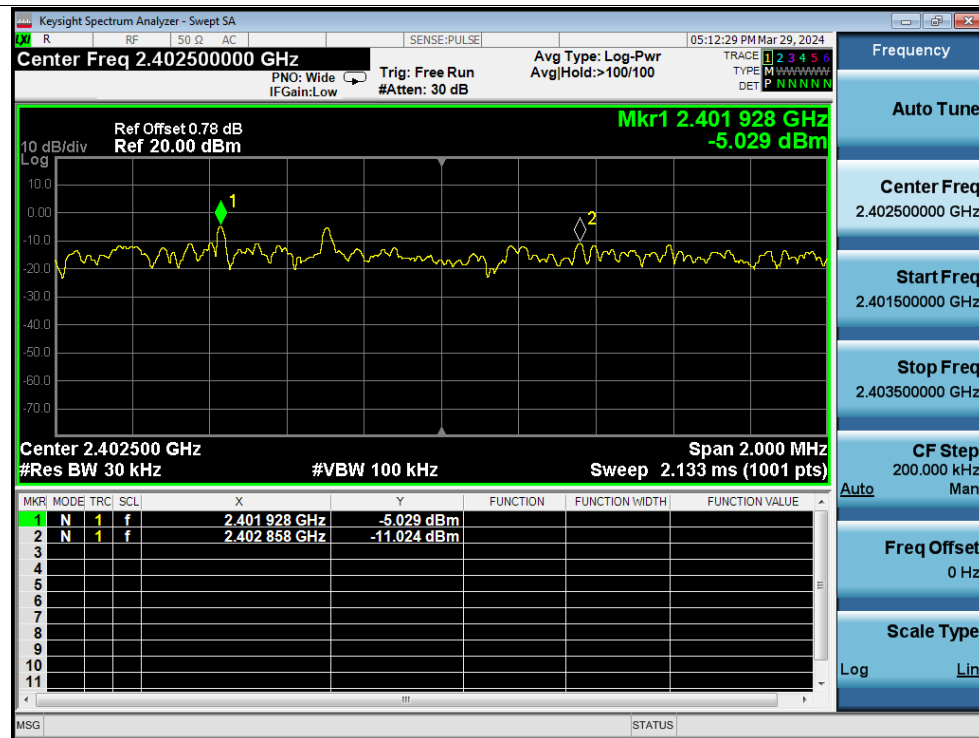
CFS NVNT 1-DH5 2441MHz Ant1



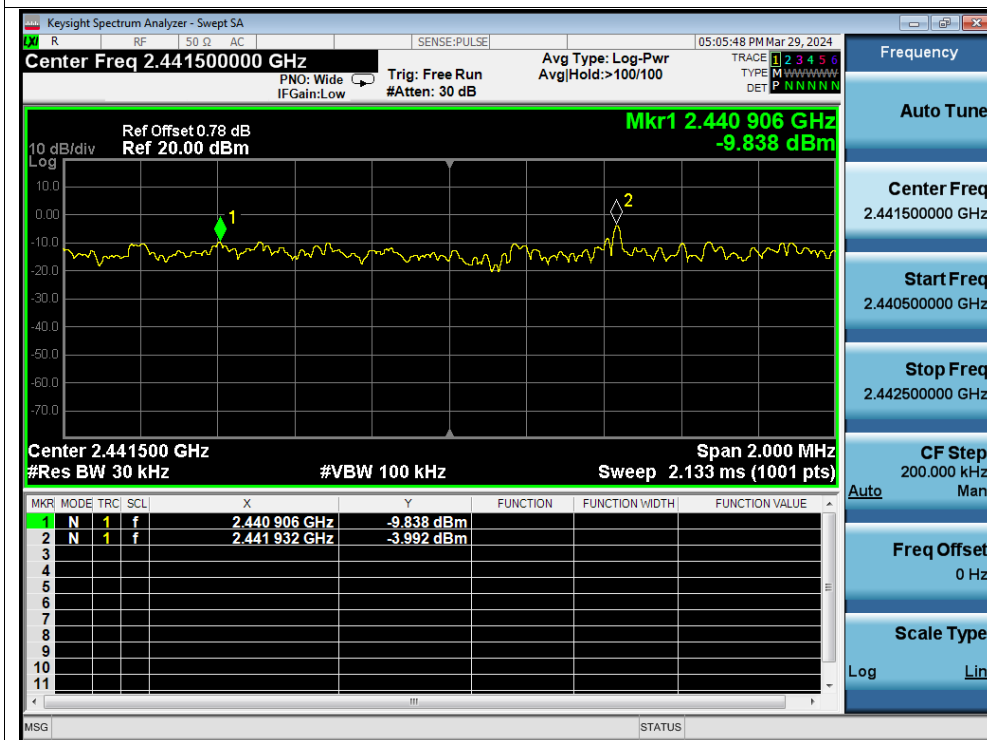
CFS NVNT 1-DH5 2480MHz Ant1



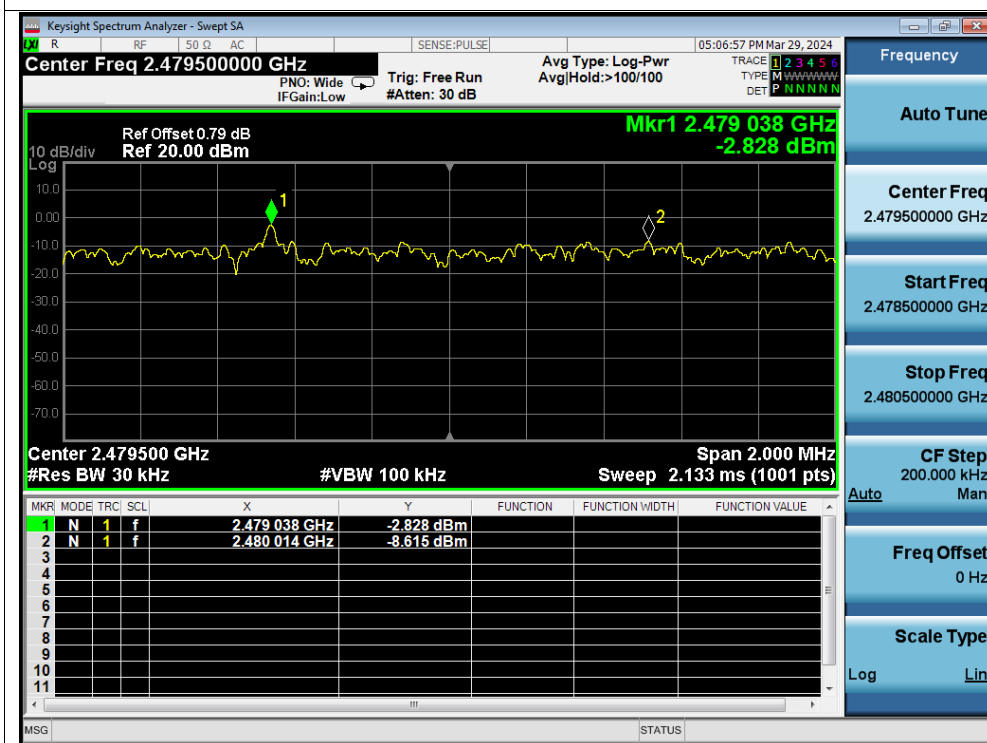
CFS NVNT 2-DH5 2402MHz Ant1



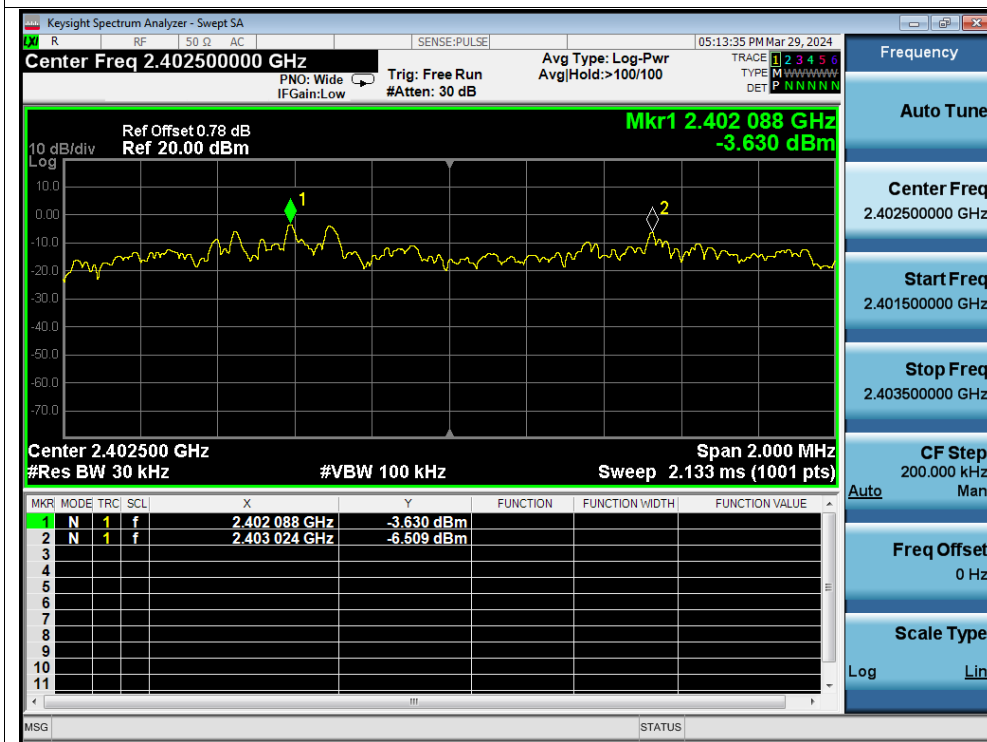
CFS NVNT 2-DH5 2441MHz Ant1



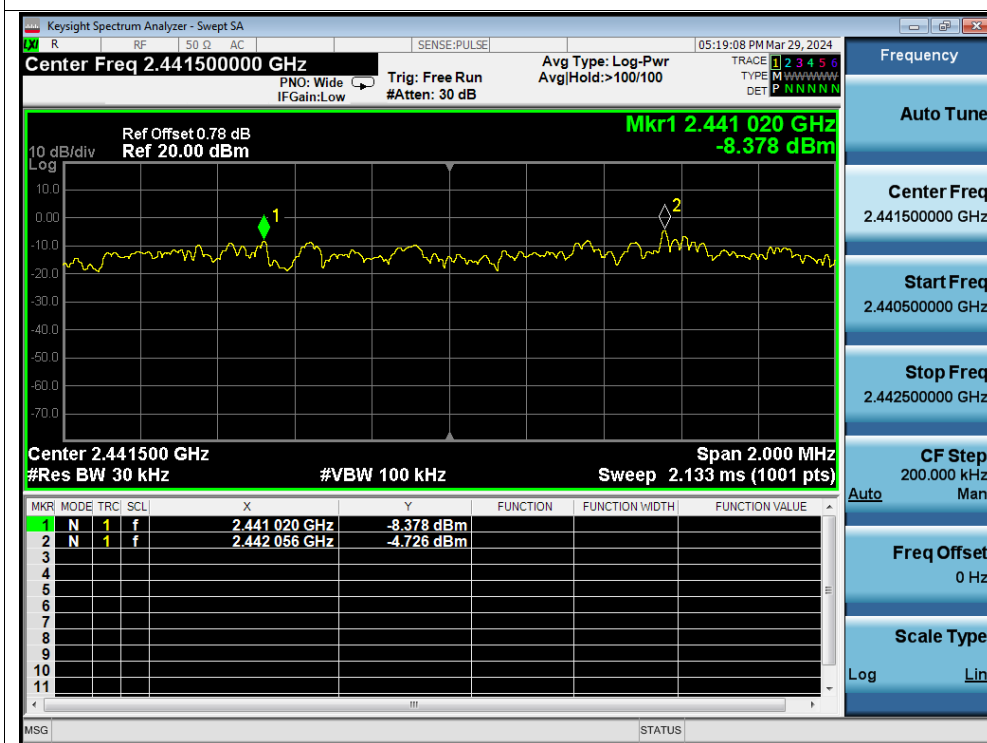
CFS NVNT 2-DH5 2480MHz Ant1

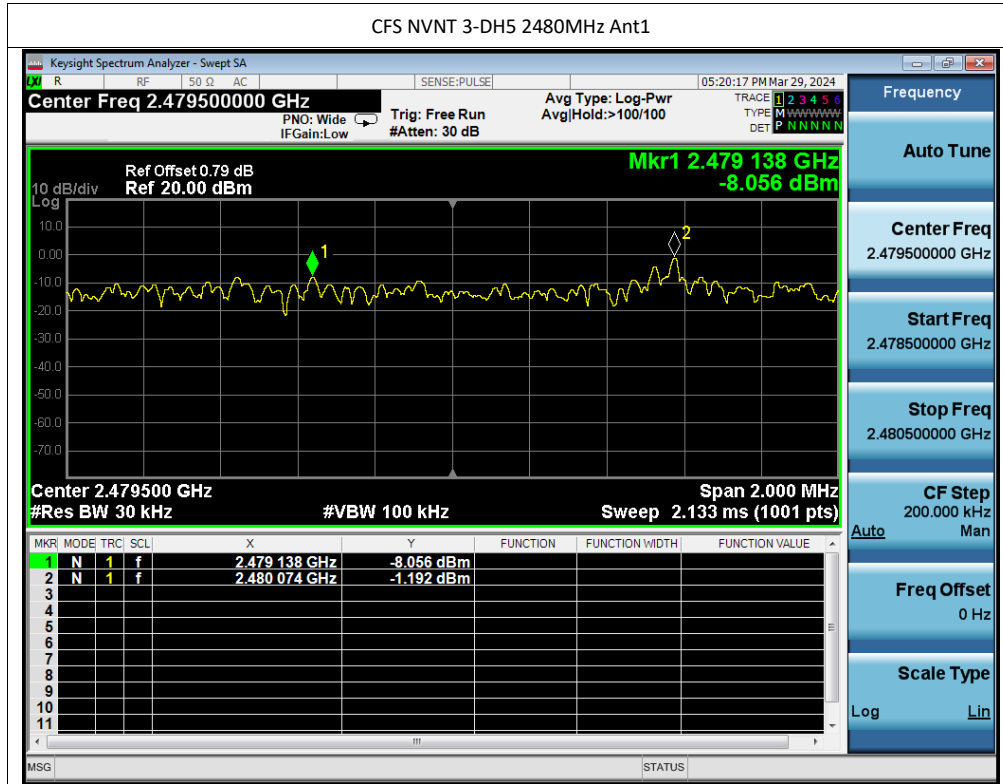


CFS NVNT 3-DH5 2402MHz Ant1



CFS NVNT 3-DH5 2441MHz Ant1





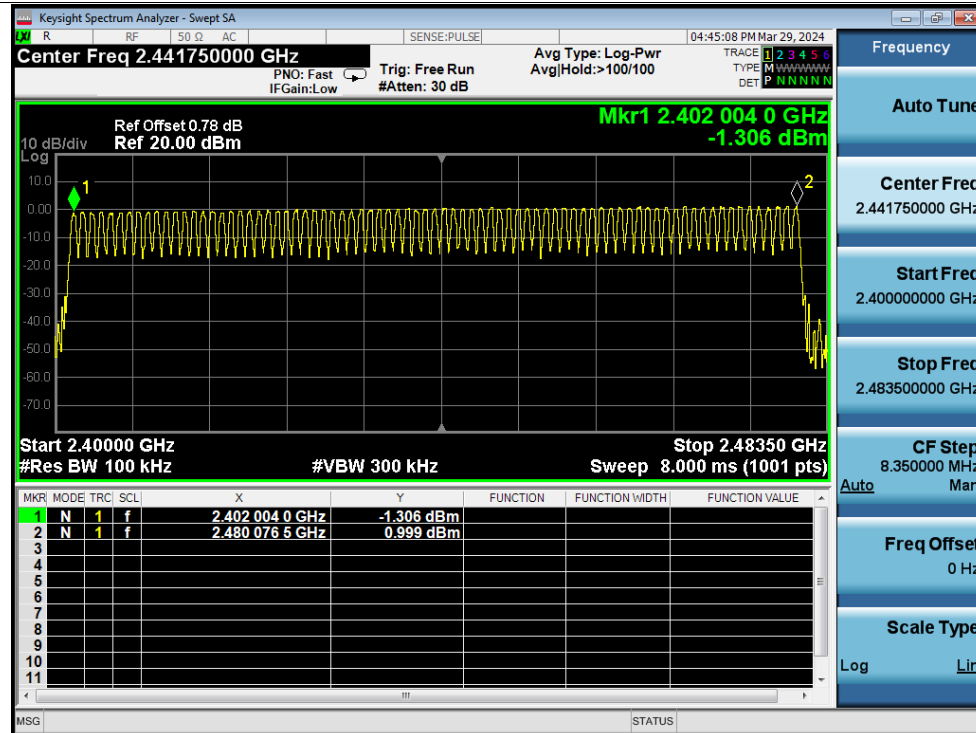


## Number of Hopping Channel

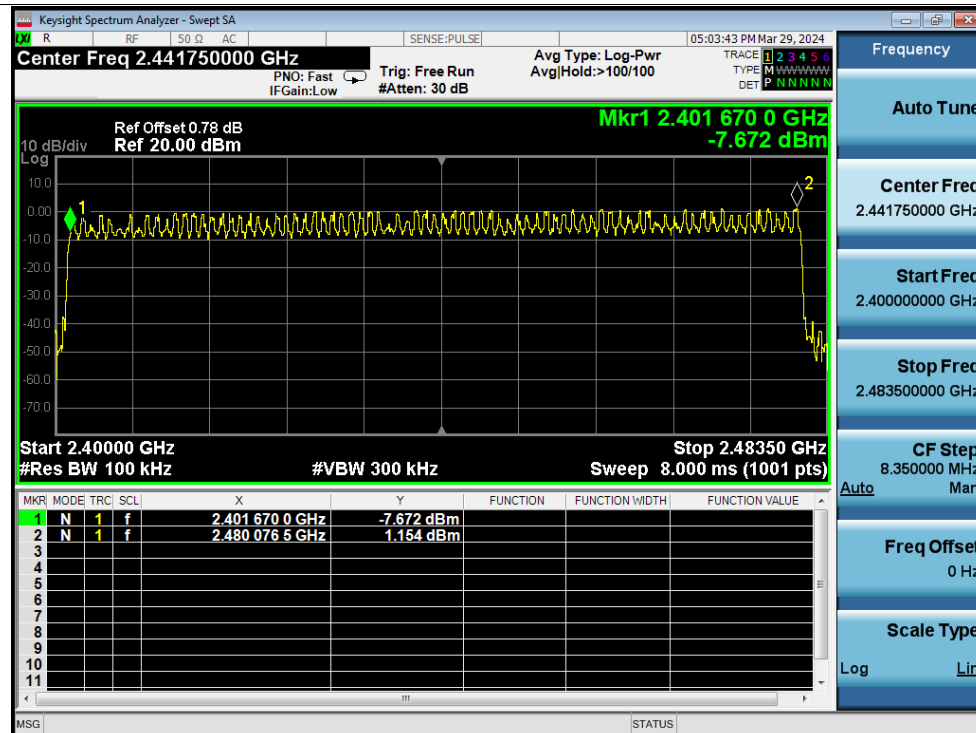
| Condition | Mode  | Antenna | Hopping Number | Limit | Verdict |
|-----------|-------|---------|----------------|-------|---------|
| NVNT      | 1-DH5 | Ant1    | 79             | 15    | Pass    |
| NVNT      | 2-DH5 | Ant1    | 79             | 15    | Pass    |
| NVNT      | 3-DH5 | Ant1    | 79             | 15    | Pass    |

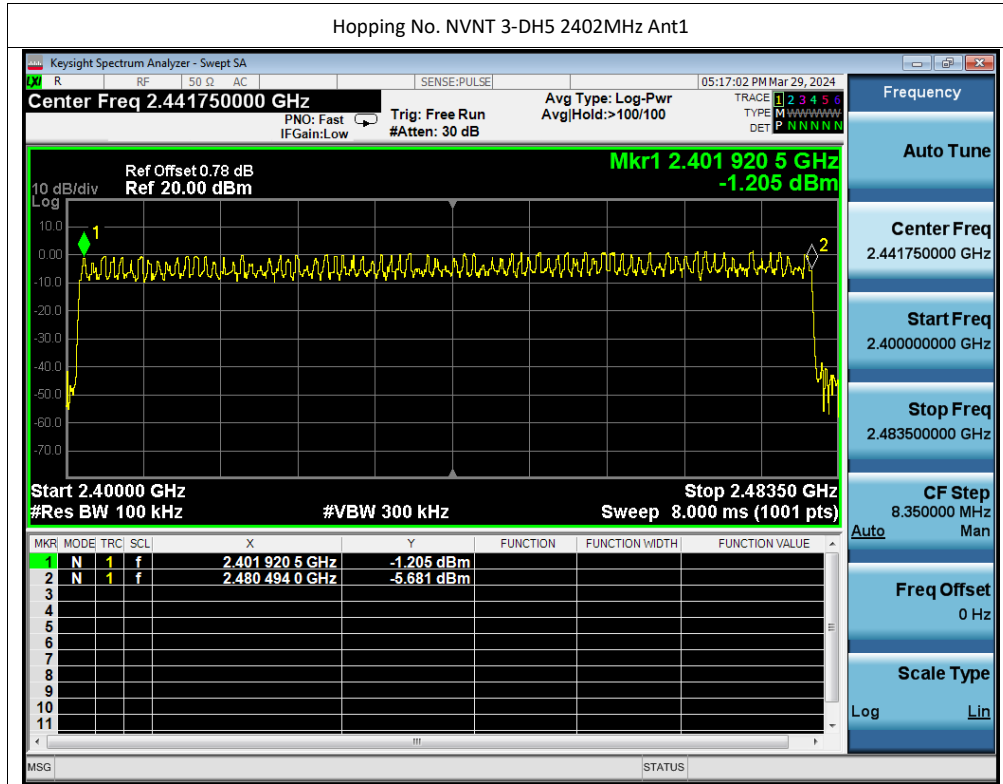
## Test Graphs

### Hopping No. NVNT 1-DH5 2402MHz Ant1



### Hopping No. NVNT 2-DH5 2402MHz Ant1



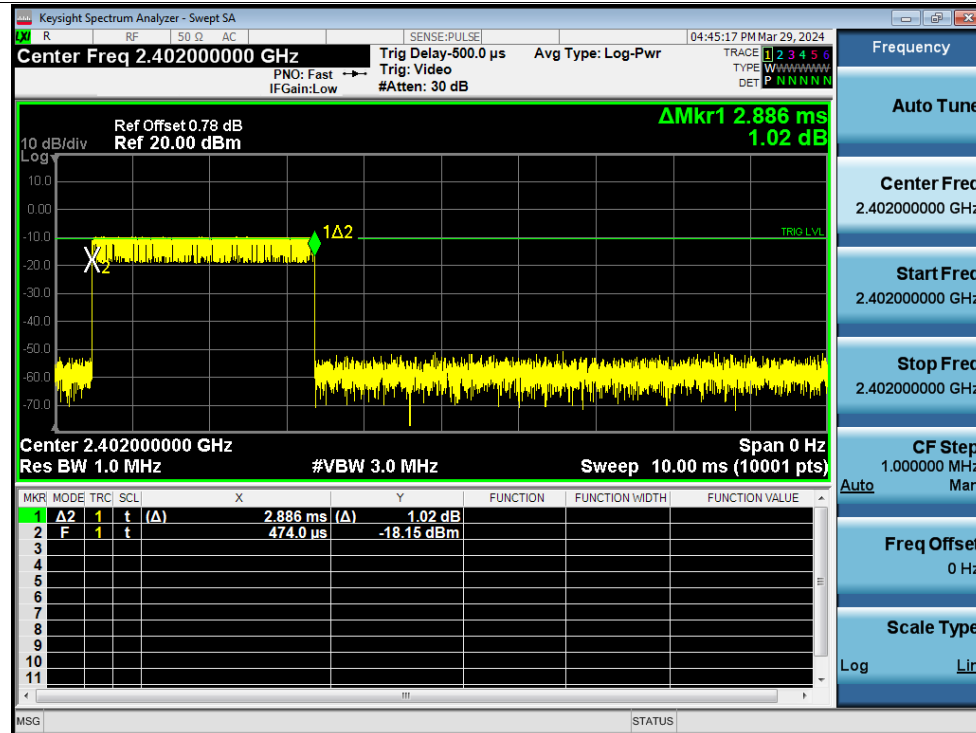


## Dwell Time

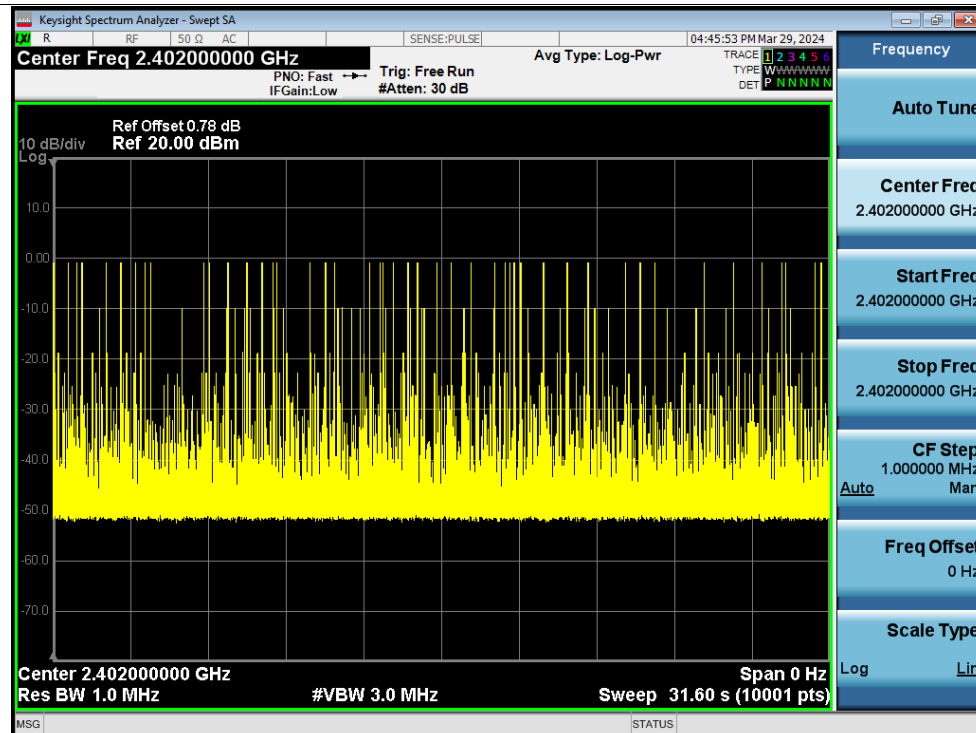
| Condition | Mode  | Frequency (MHz) | Antenna | Pulse Time (ms) | Total Dwell Time (ms) | Burst Count | Period Time (ms) | Limit (ms) | Verdict |
|-----------|-------|-----------------|---------|-----------------|-----------------------|-------------|------------------|------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | 2.886           | 138.528               | 48          | 31600            | 400        | Pass    |
| NVNT      | 1-DH5 | 2441            | Ant1    | 2.885           | 121.17                | 42          | 31600            | 400        | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | 2.886           | 150.072               | 52          | 31600            | 400        | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | 2.891           | 144.55                | 50          | 31600            | 400        | Pass    |
| NVNT      | 2-DH5 | 2441            | Ant1    | 2.891           | 138.768               | 48          | 31600            | 400        | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | 2.891           | 130.095               | 45          | 31600            | 400        | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | 2.892           | 112.788               | 39          | 31600            | 400        | Pass    |
| NVNT      | 3-DH5 | 2441            | Ant1    | 2.892           | 147.492               | 51          | 31600            | 400        | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | 2.893           | 121.506               | 42          | 31600            | 400        | Pass    |

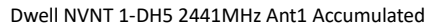
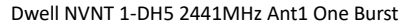
## Test Graphs

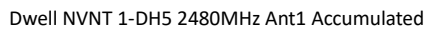
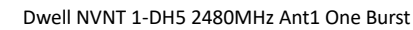
Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



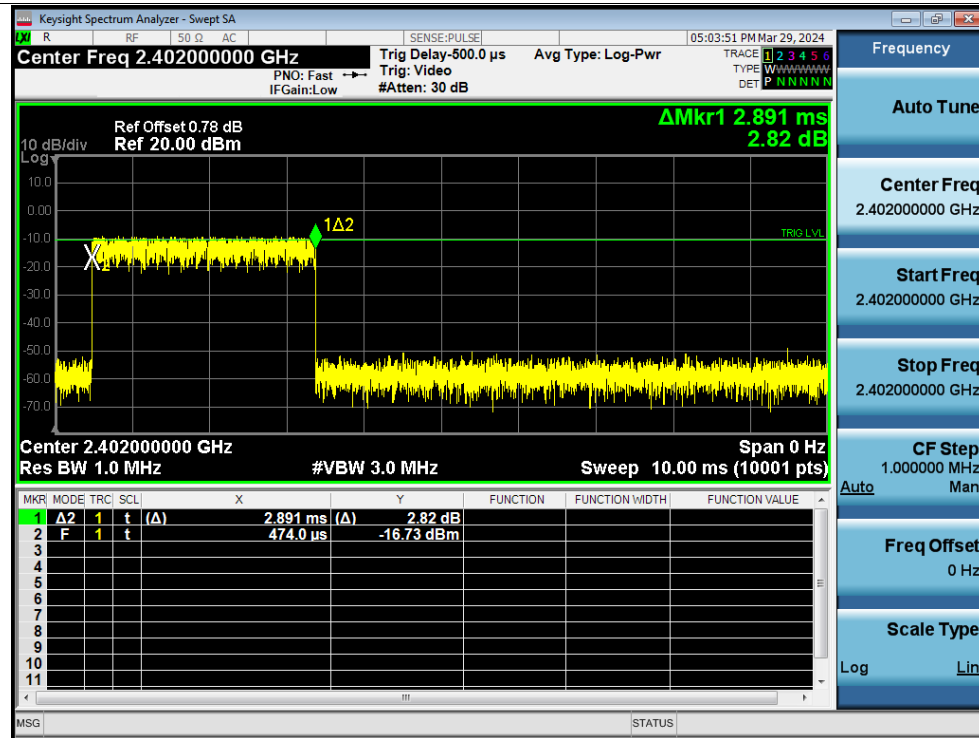
Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



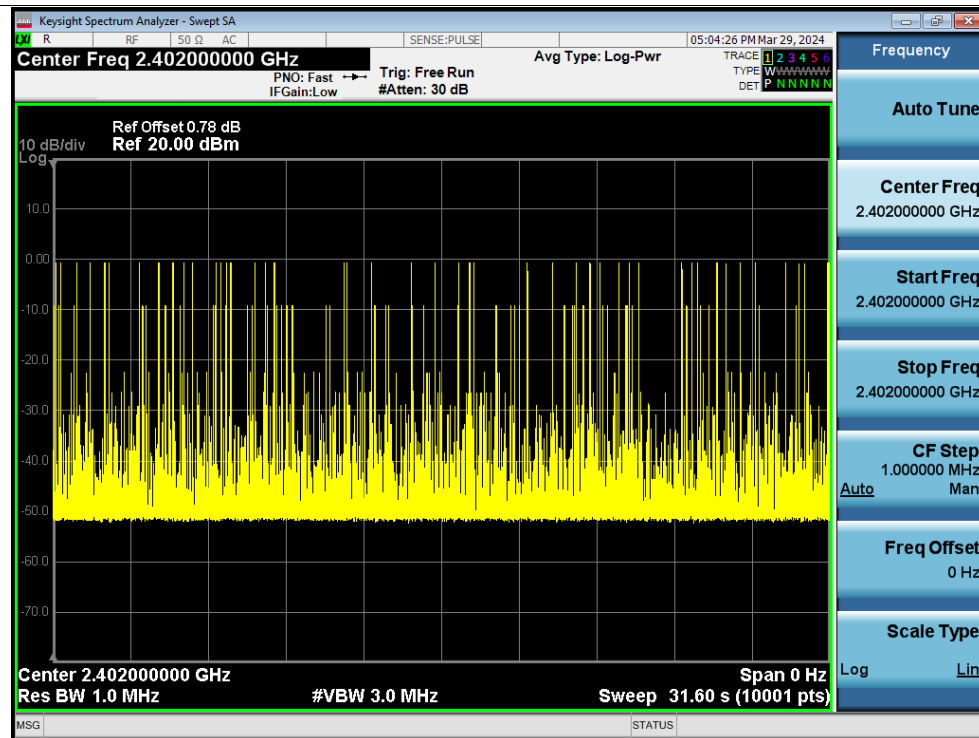




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

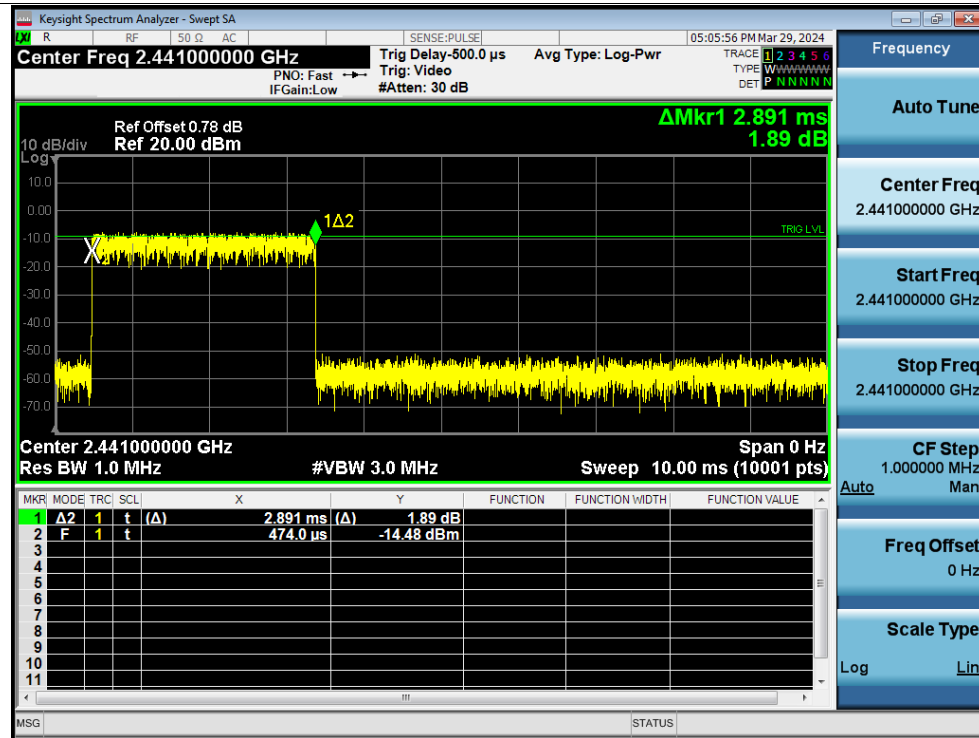


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

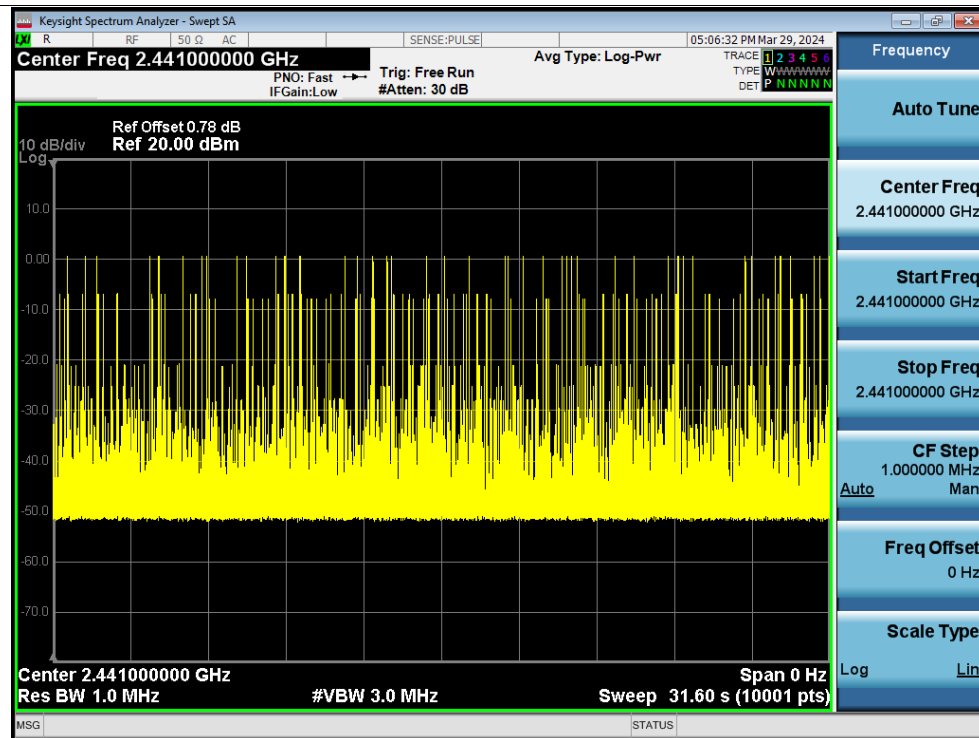




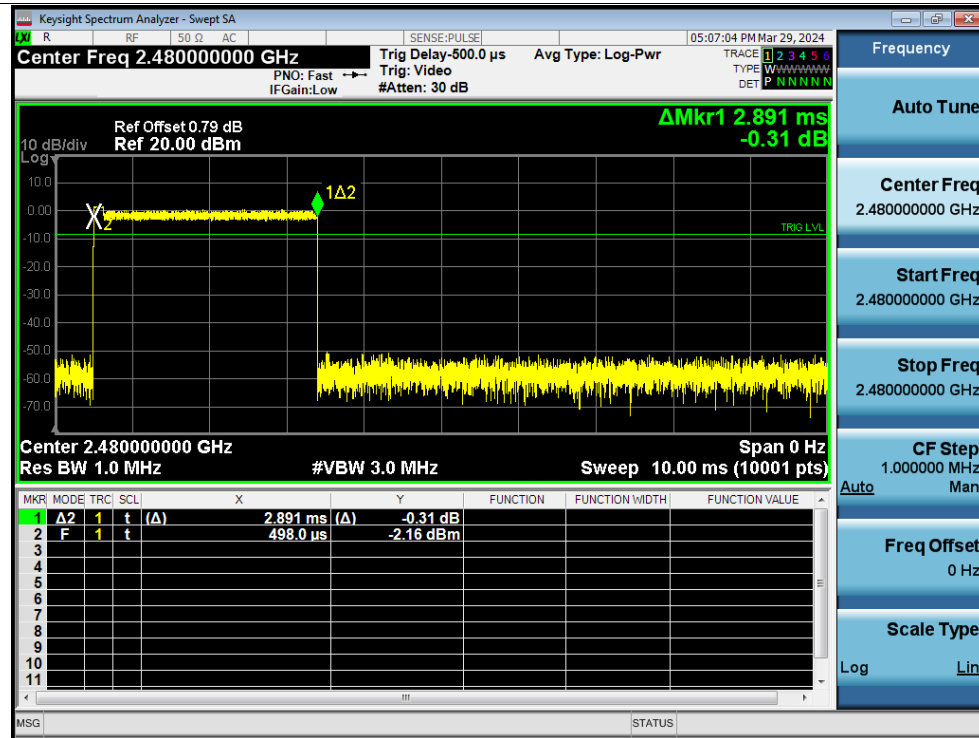
Dwell NVNT 2-DH5 2441MHz Ant1 One Burst



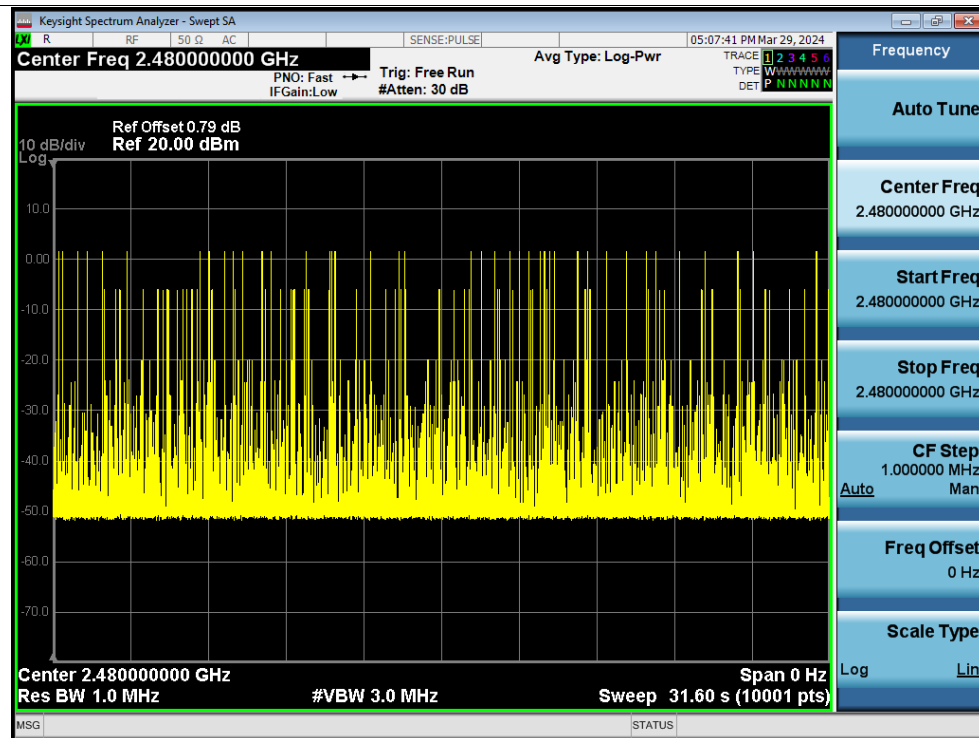
Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated



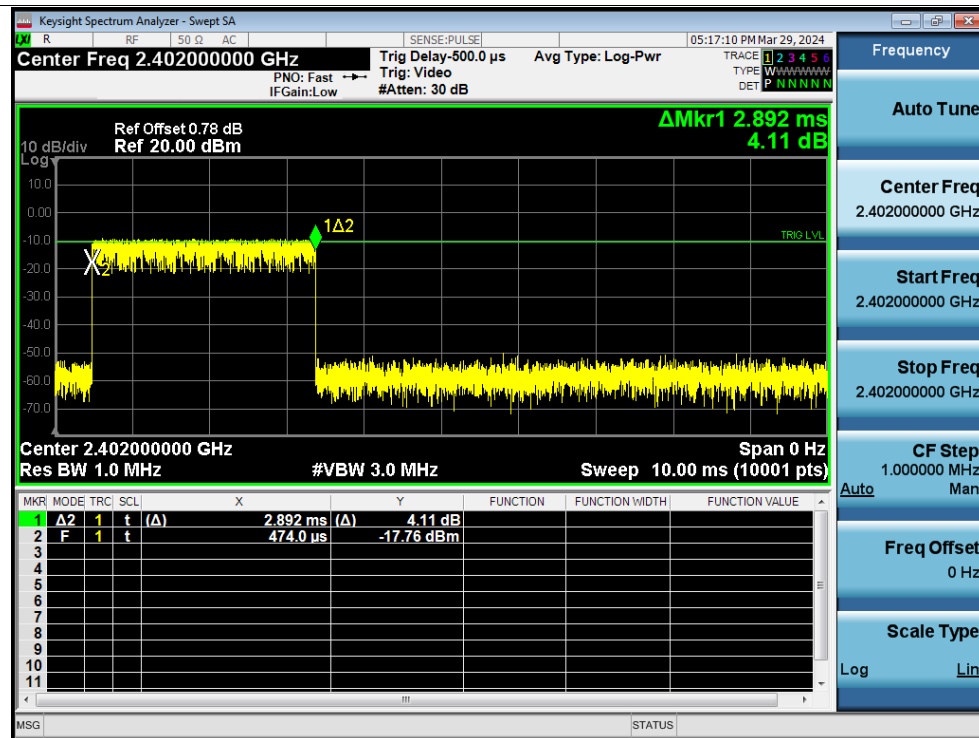
Dwell NVNT 2-DH5 2480MHz Ant1 One Burst



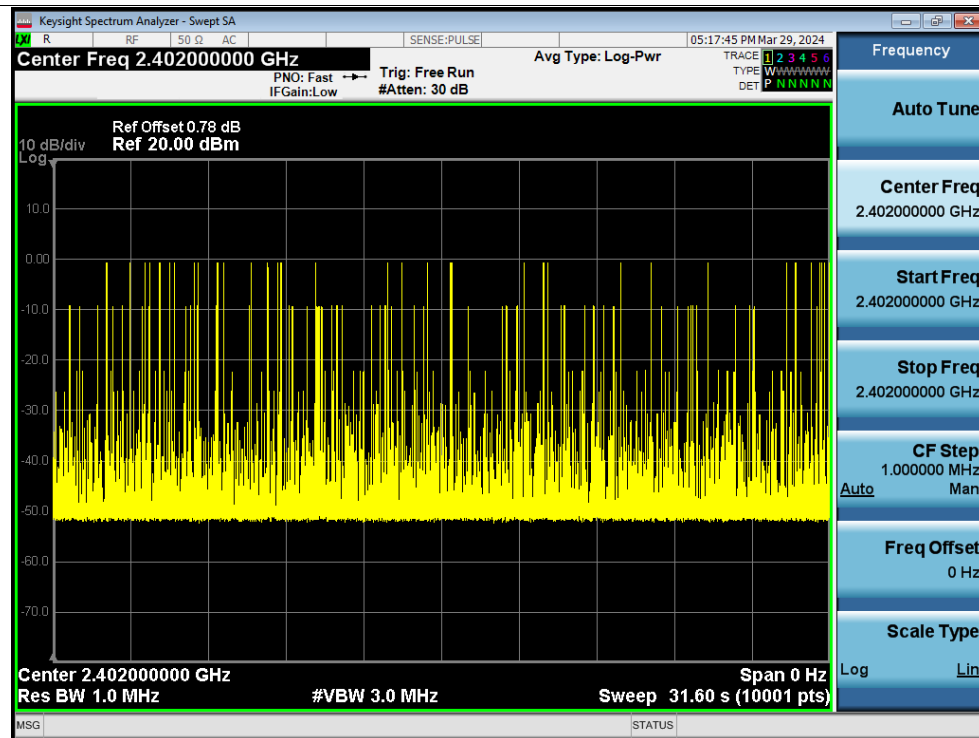
Dwell NVNT 2-DH5 2480MHz Ant1 Accumulated



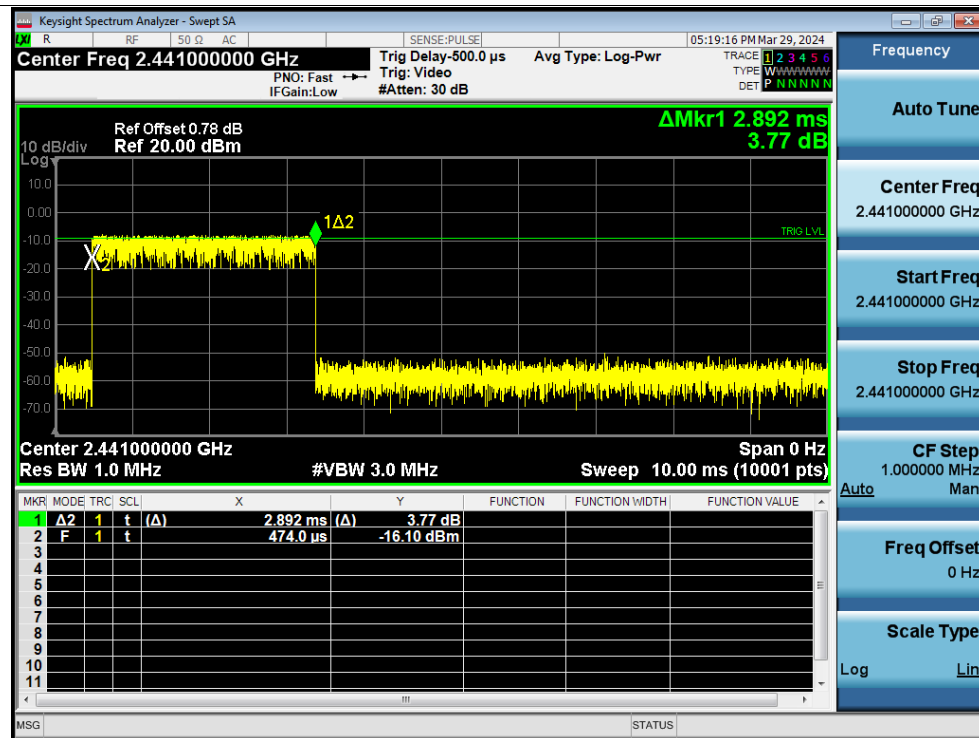
Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



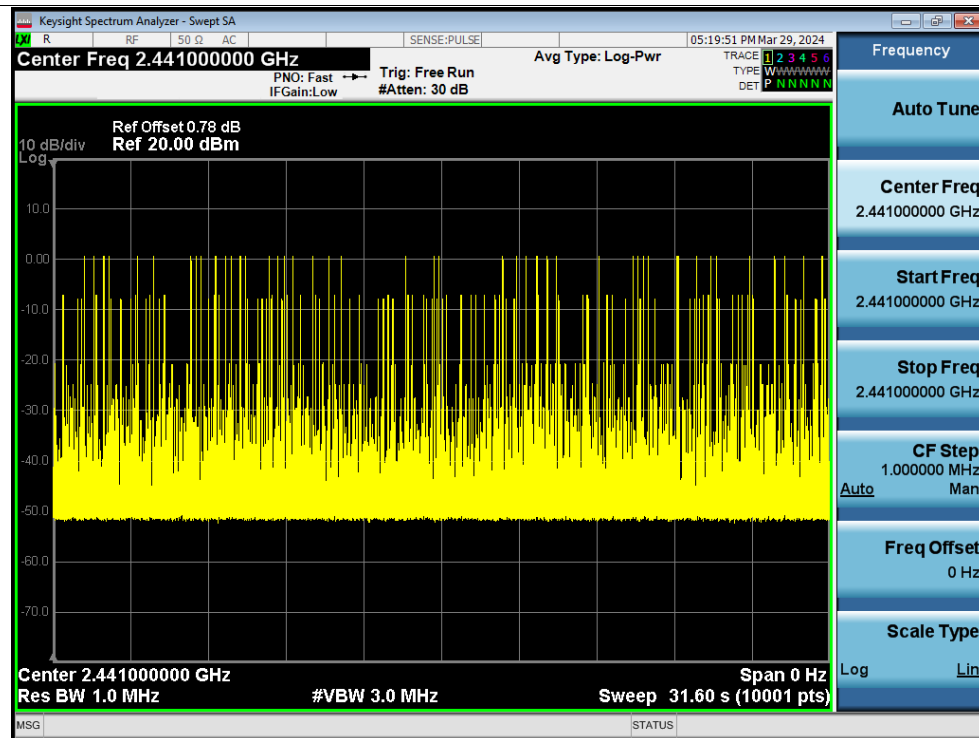
Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated



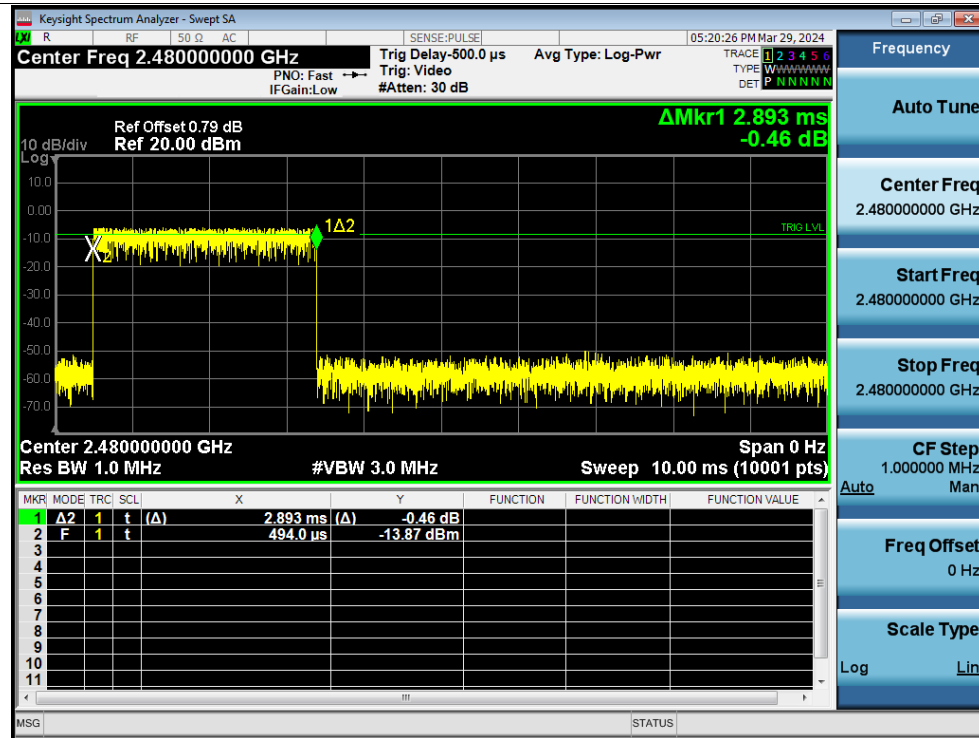
Dwell NVNT 3-DH5 2441MHz Ant1 One Burst



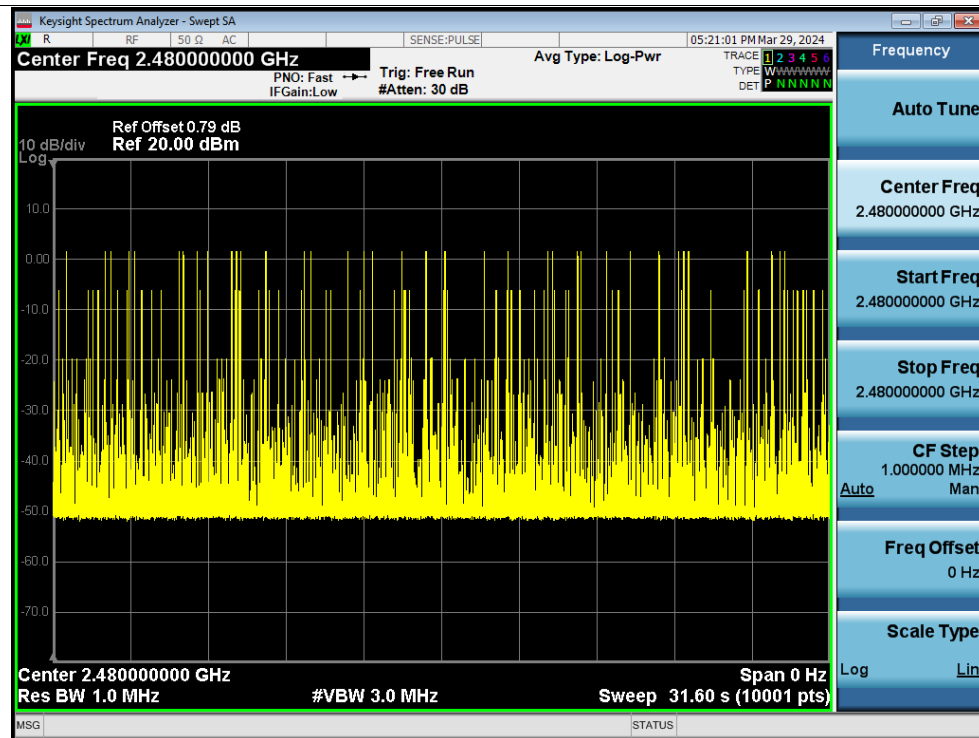
Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2480MHz Ant1 One Burst



Dwell NVNT 3-DH5 2480MHz Ant1 Accumulated

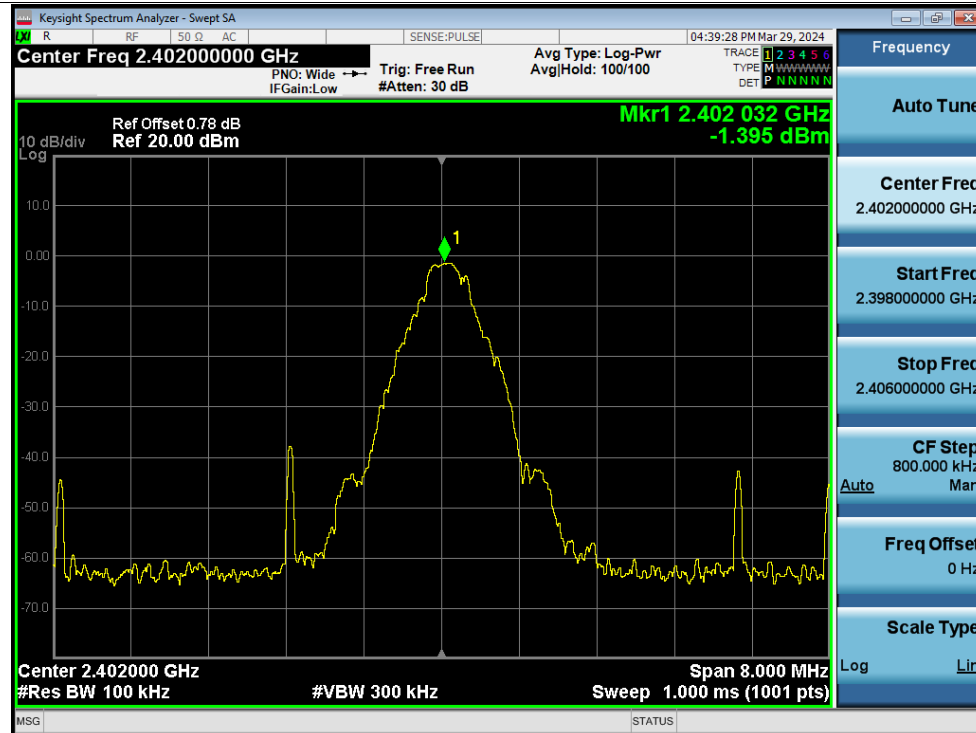


## Band Edge

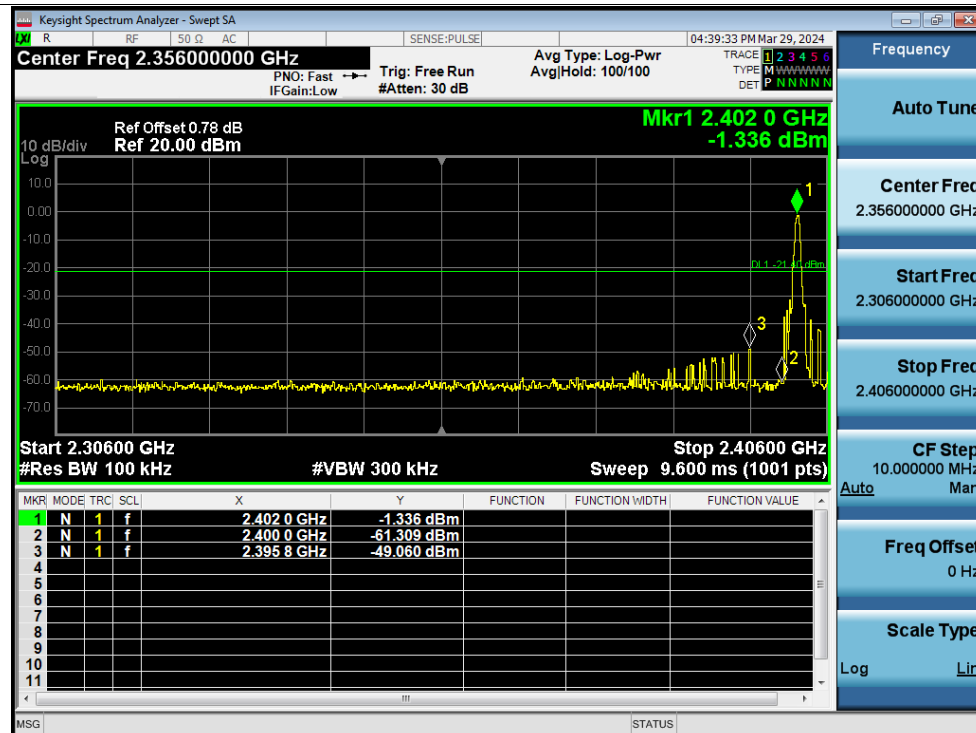
| Condition | Mode  | Frequency (MHz) | Antenna | Hopping Mode | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|-------|-----------------|---------|--------------|-----------------|-------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | No-Hopping   | -47.67          | -20         | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | No-Hopping   | -43.15          | -20         | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | No-Hopping   | -45.9           | -20         | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | No-Hopping   | -46.35          | -20         | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | No-Hopping   | -43.65          | -20         | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | No-Hopping   | -46.94          | -20         | Pass    |

## Test Graphs

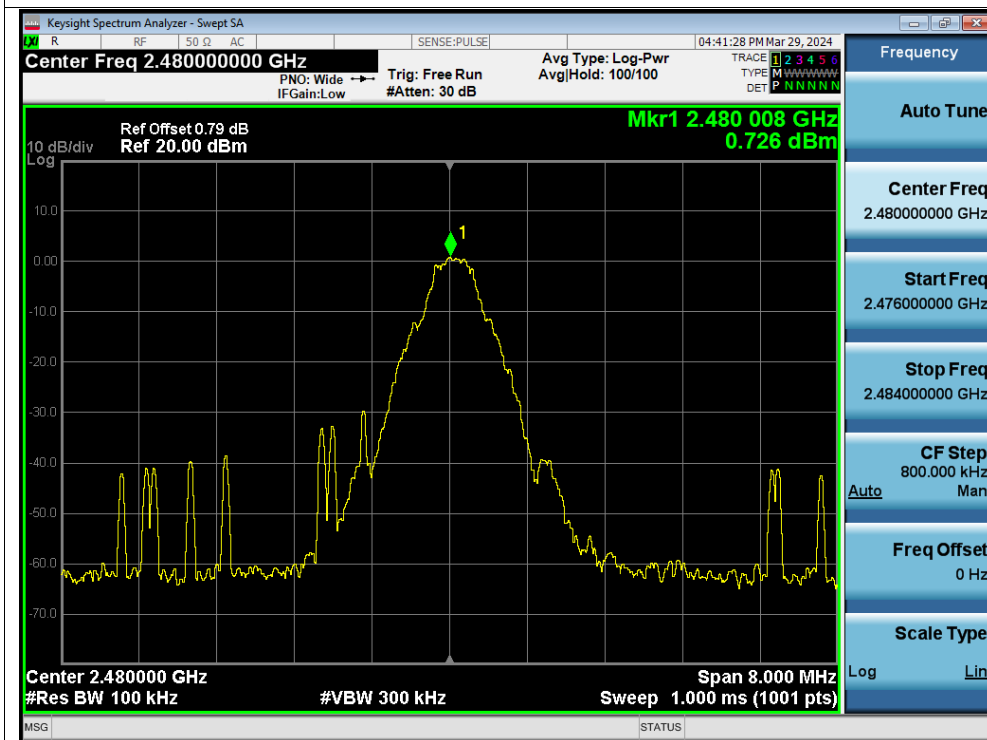
### Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



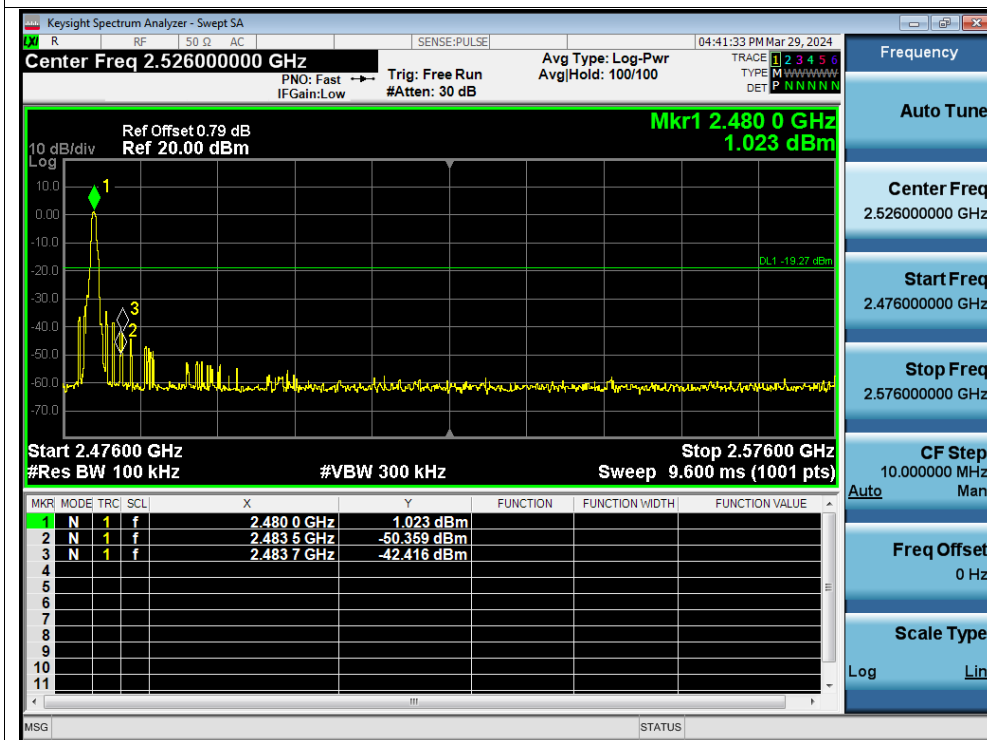
### Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

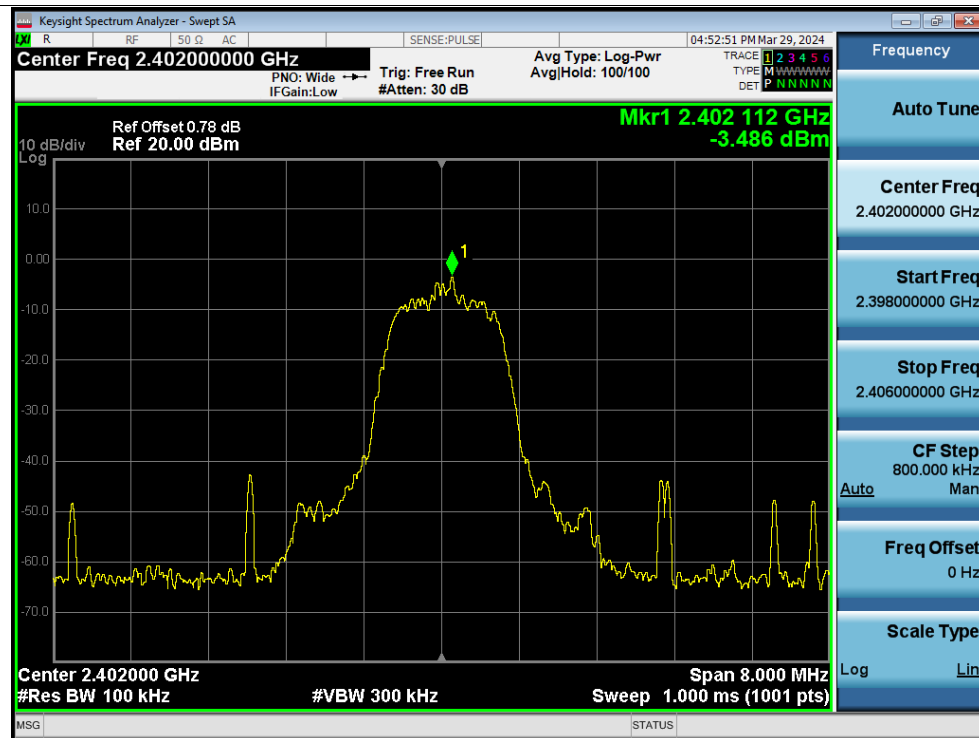


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

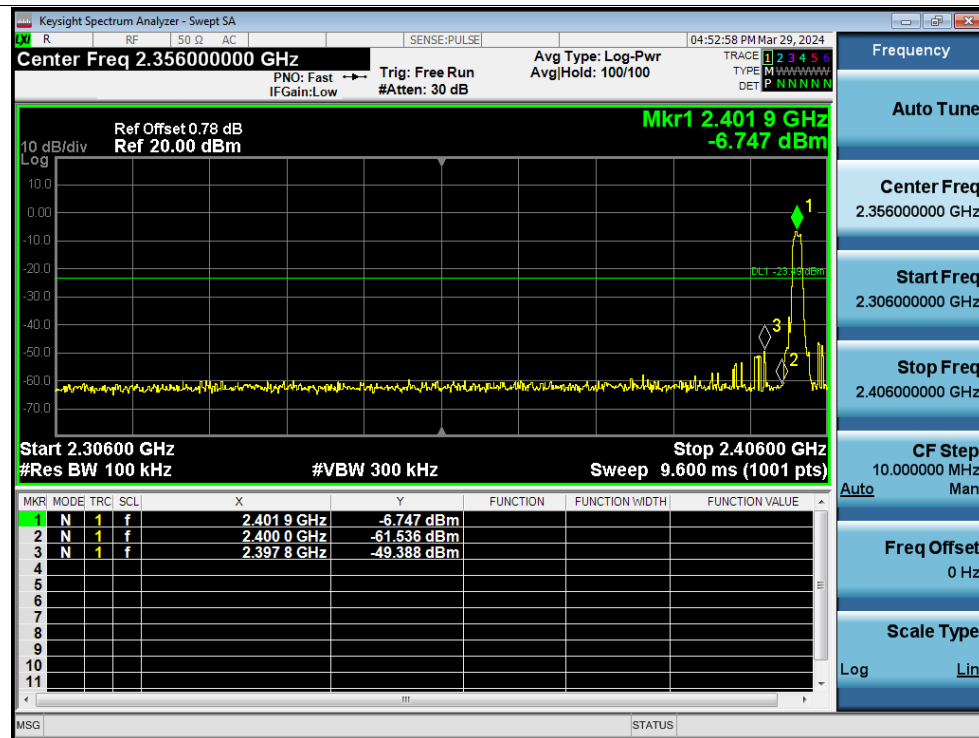




## Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



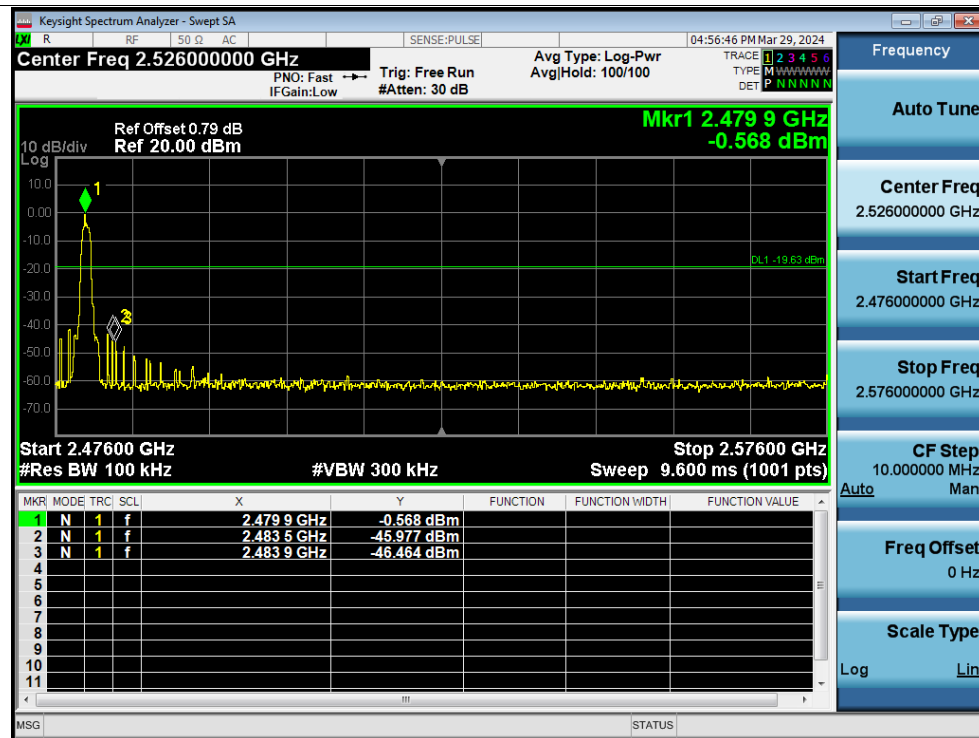
## Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



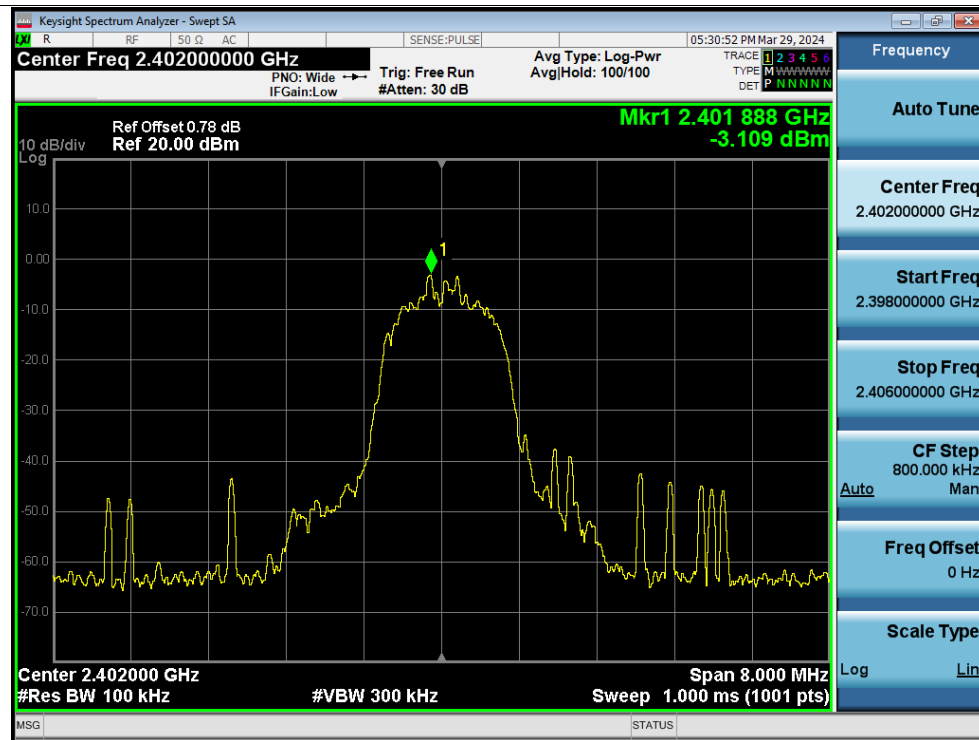
## Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



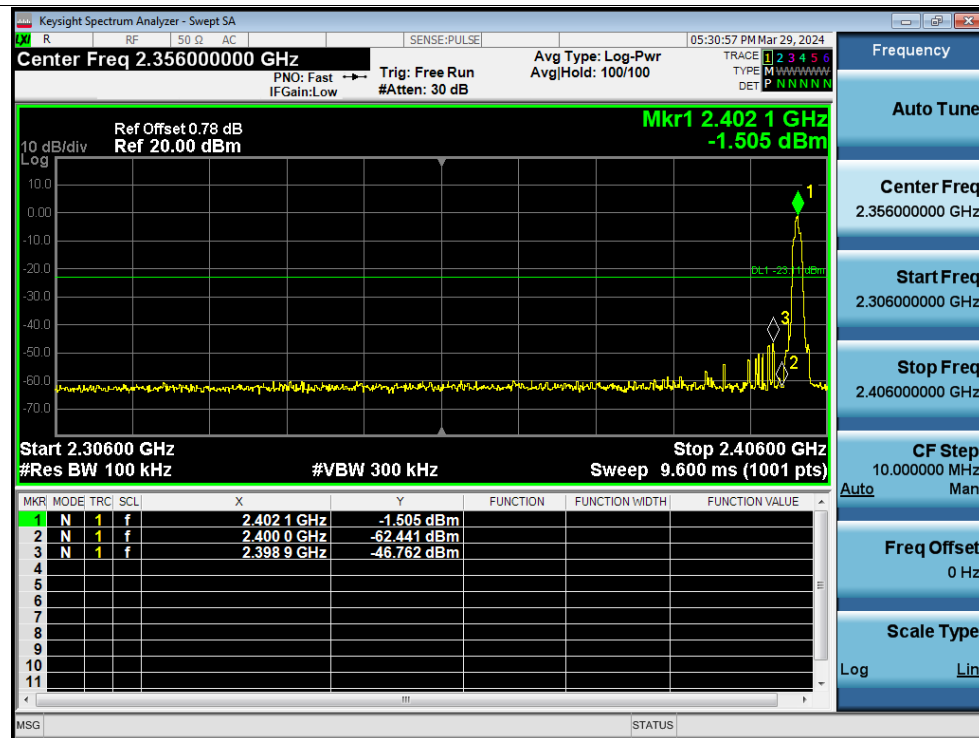
## Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



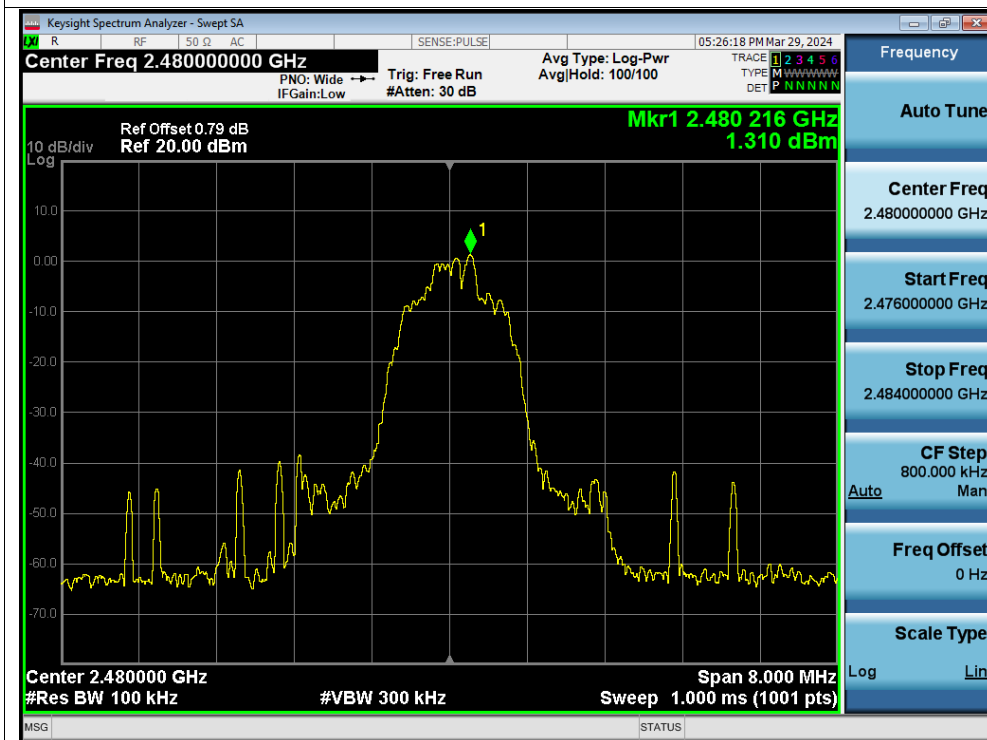
## Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



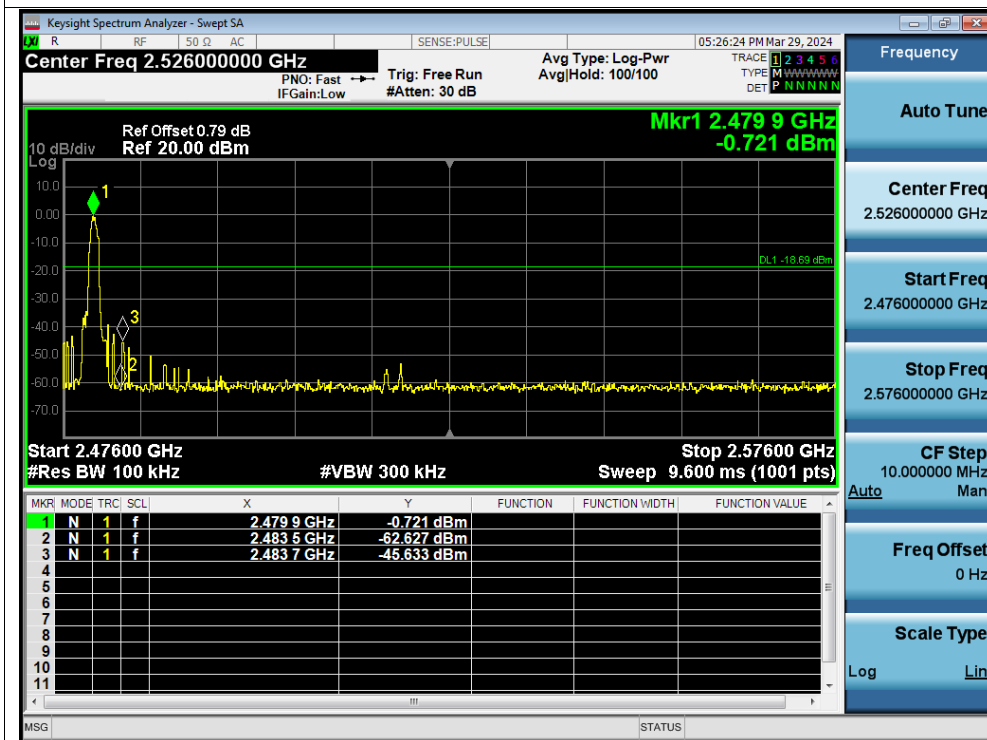
## Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



## Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



## Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission

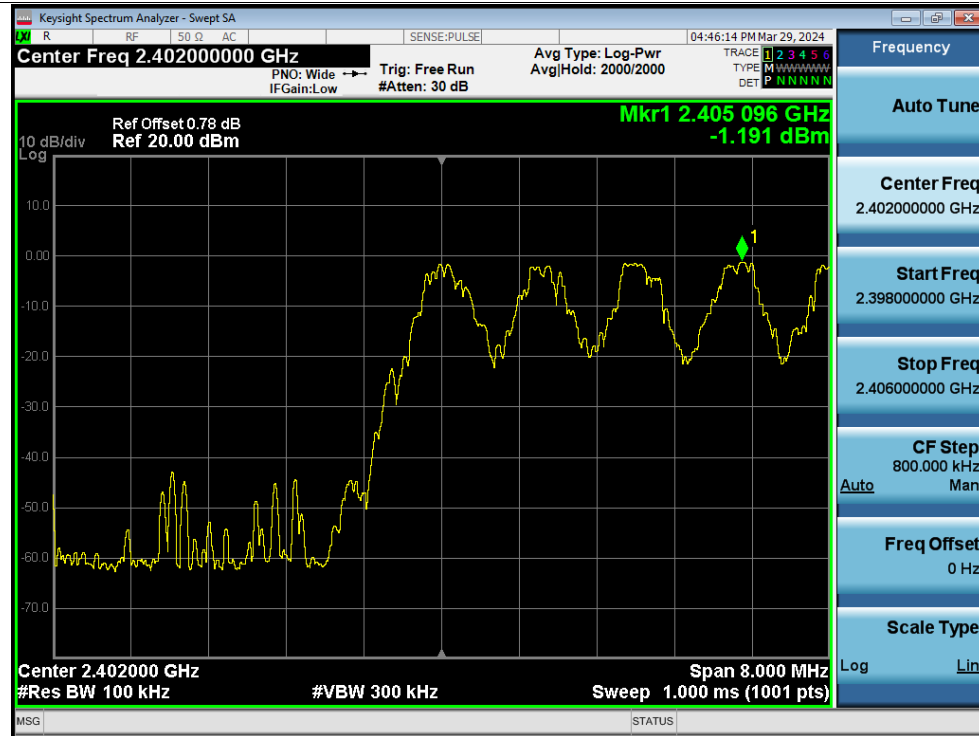


## Band Edge(Hopping)

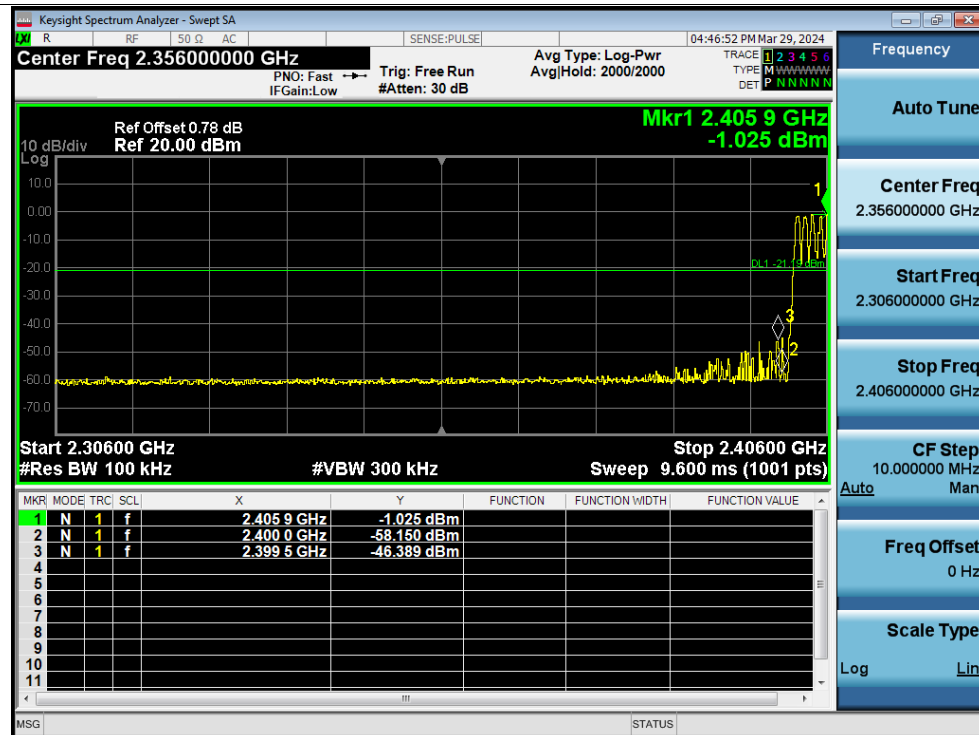
| Condition | Mode  | Frequency (MHz) | Antenna | Hopping Mode | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|-------|-----------------|---------|--------------|-----------------|-------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | Hopping      | -45.2           | -20         | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | Hopping      | -43.42          | -20         | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | Hopping      | -48.11          | -20         | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | Hopping      | -47.23          | -20         | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | Hopping      | -41.65          | -20         | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | Hopping      | -51.14          | -20         | Pass    |

## Test Graphs

### Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



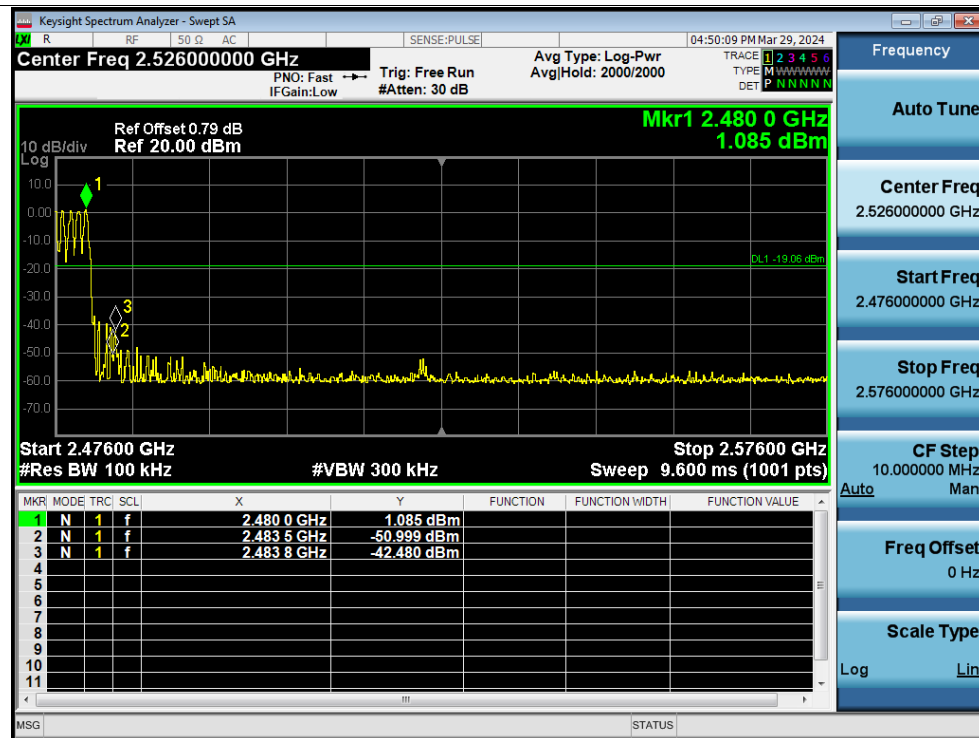
### Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



## Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



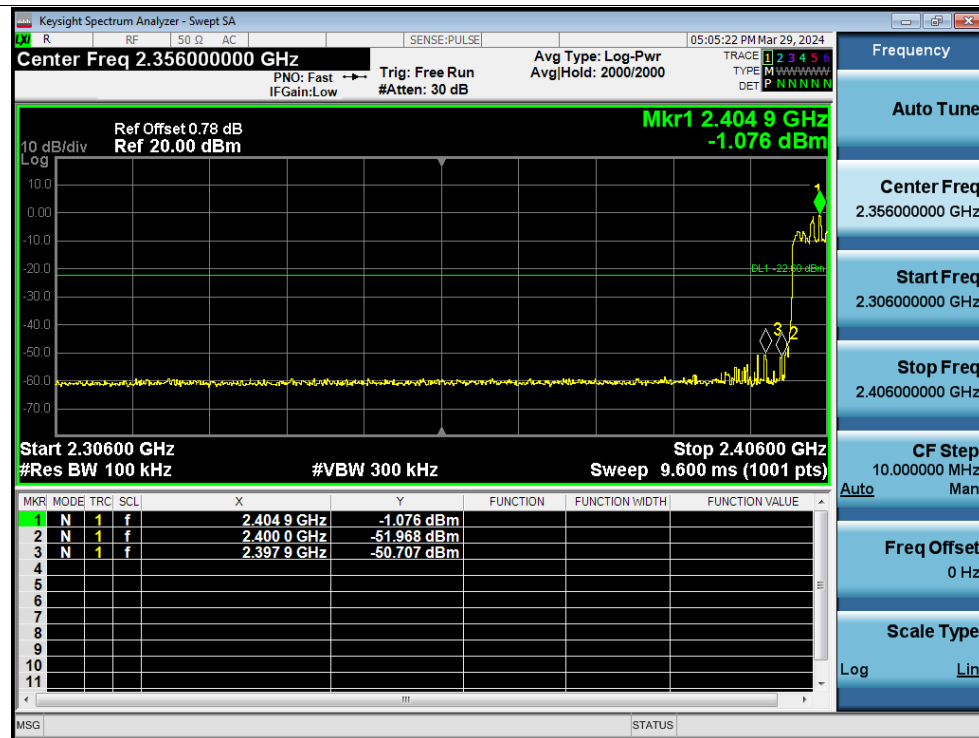
## Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



## Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

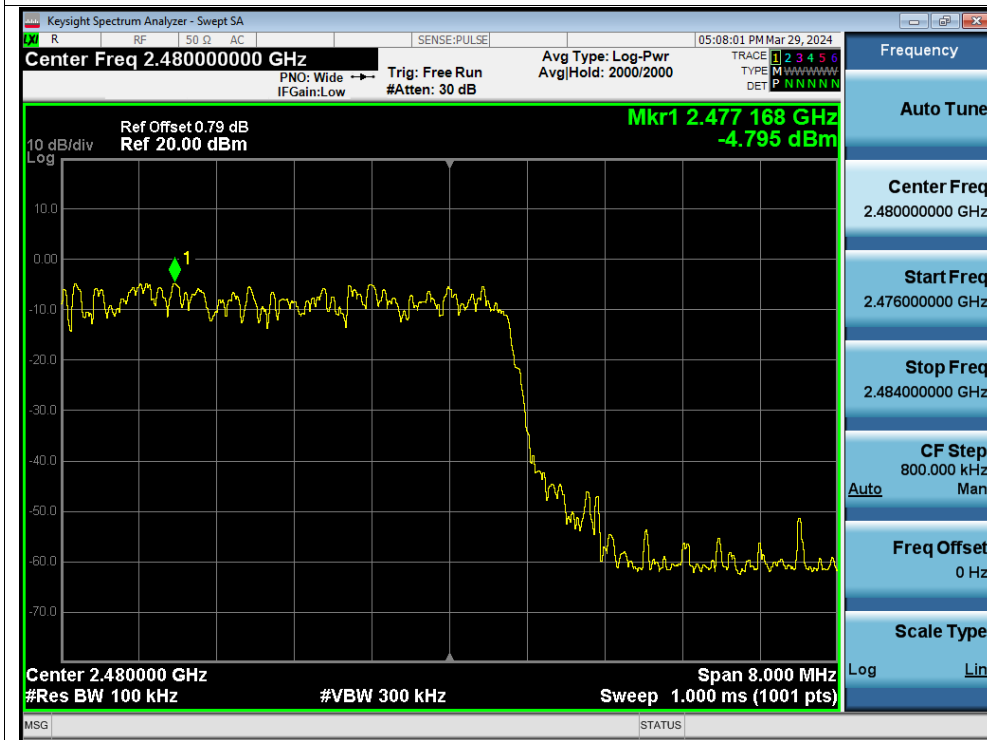


## Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

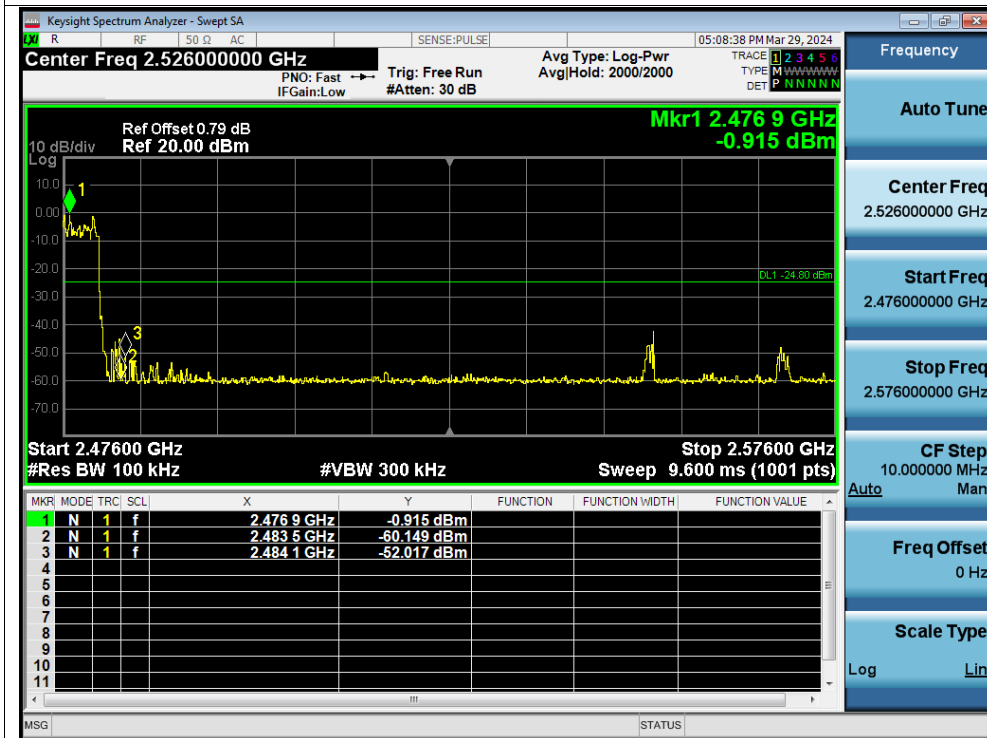




## Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



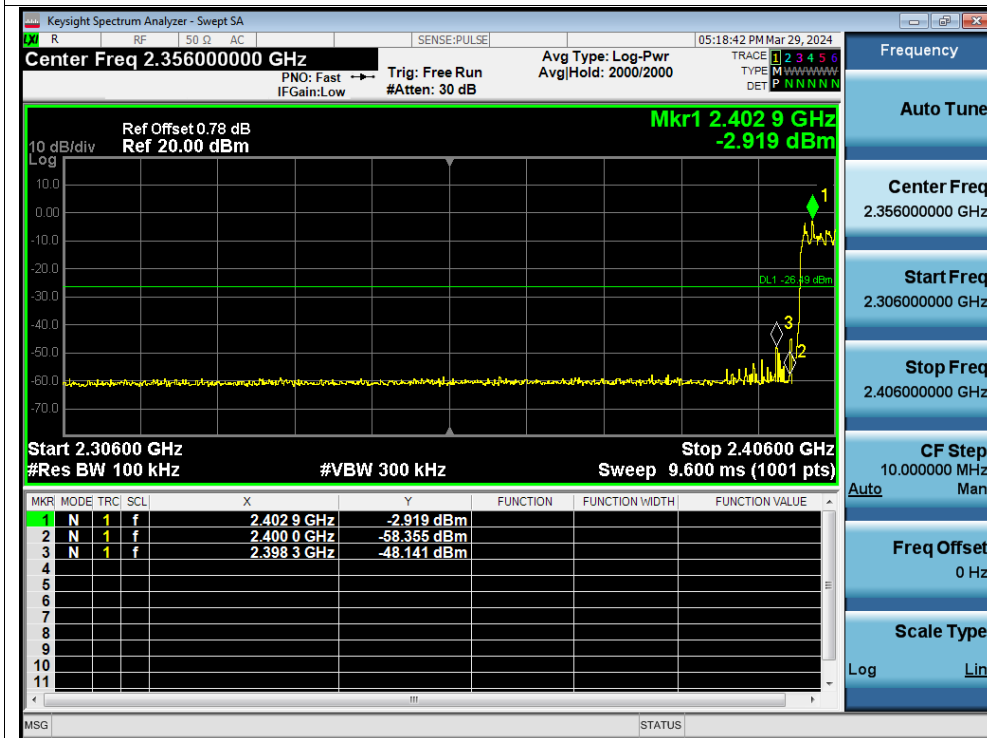
## Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



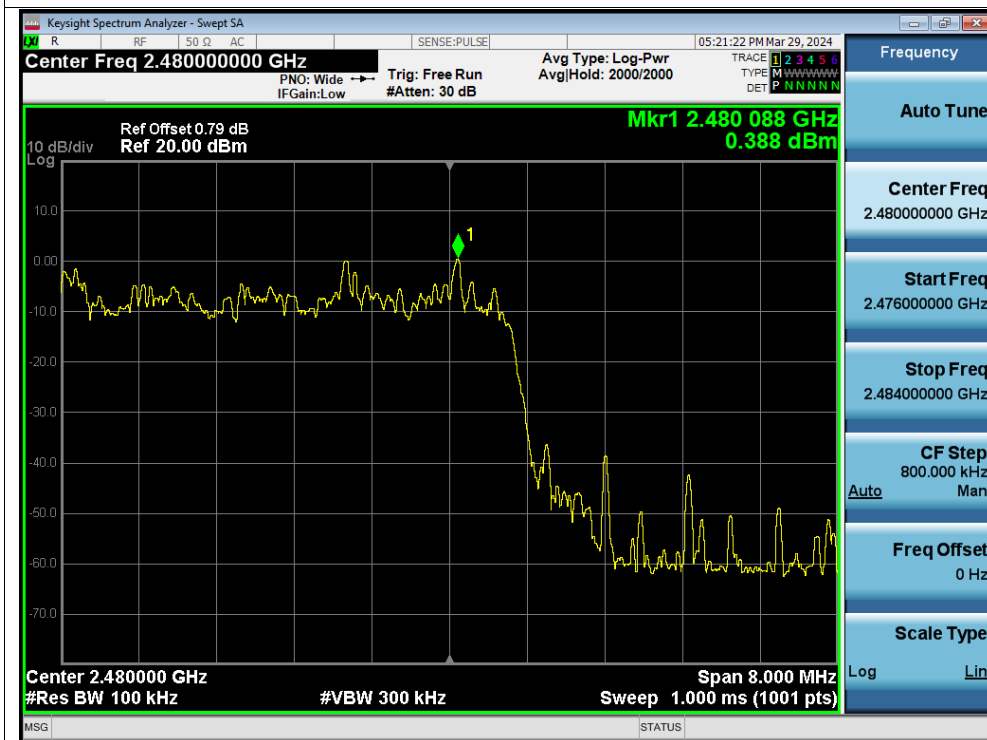
## Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



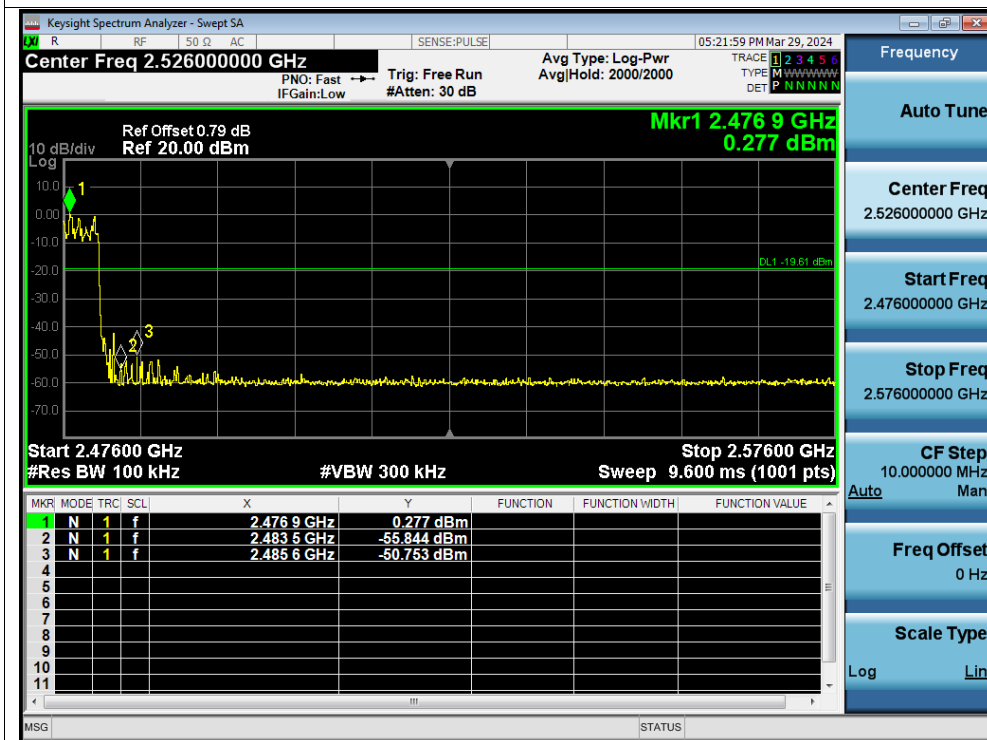
## Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



## Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



## Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission



## Conducted RF Spurious Emission

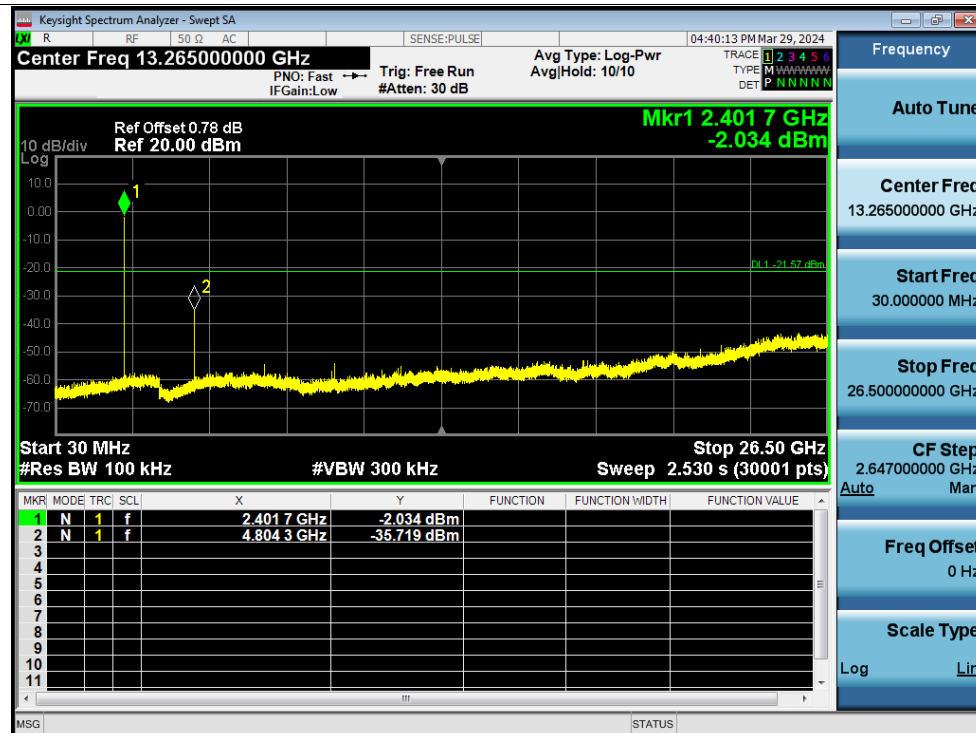
| Condition | Mode  | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|-------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | -34.15          | -20         | Pass    |
| NVNT      | 1-DH5 | 2441            | Ant1    | -34.41          | -20         | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | -34.33          | -20         | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | -41.02          | -20         | Pass    |
| NVNT      | 2-DH5 | 2441            | Ant1    | -42.13          | -20         | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | -35.52          | -20         | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | -42.38          | -20         | Pass    |
| NVNT      | 3-DH5 | 2441            | Ant1    | -34.91          | -20         | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | -40.13          | -20         | Pass    |

## Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



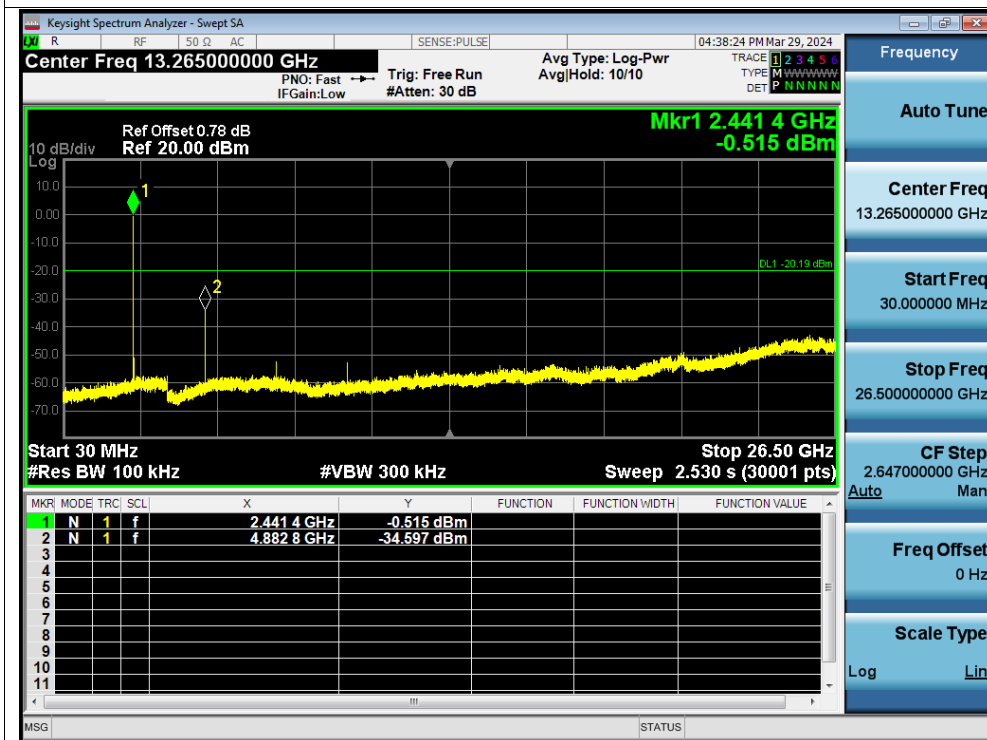
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



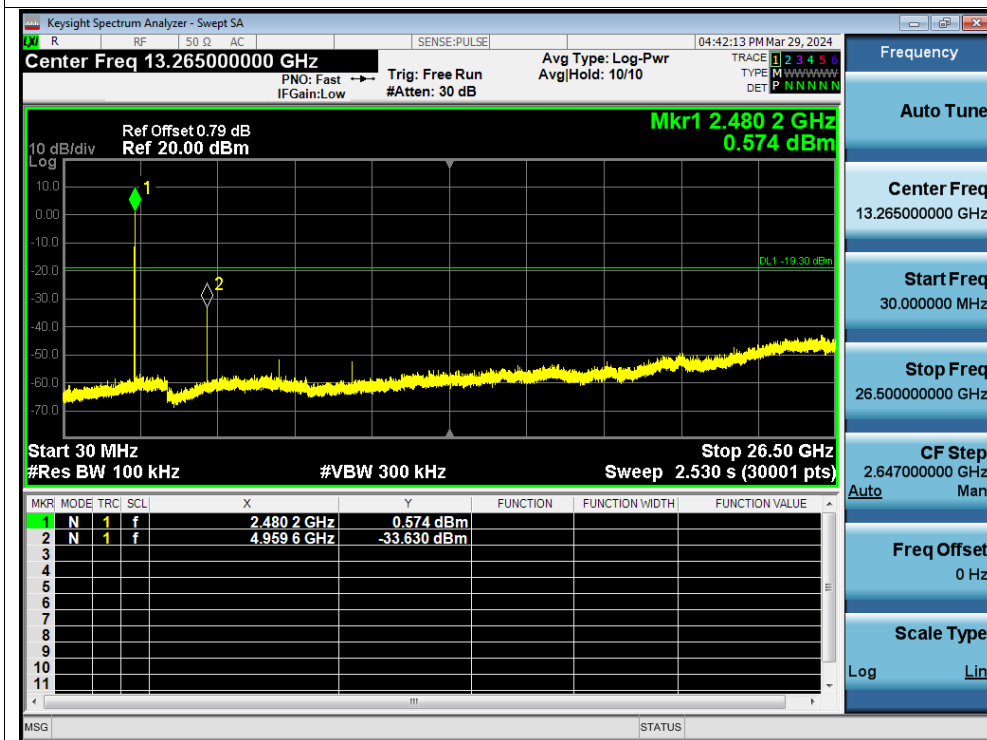
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



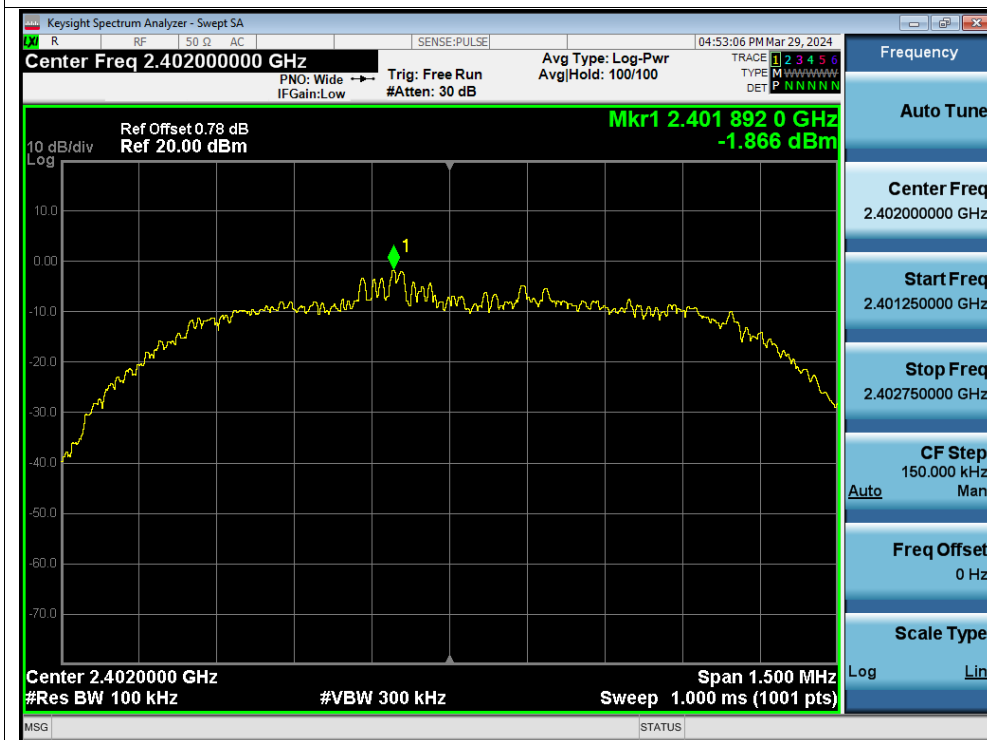
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



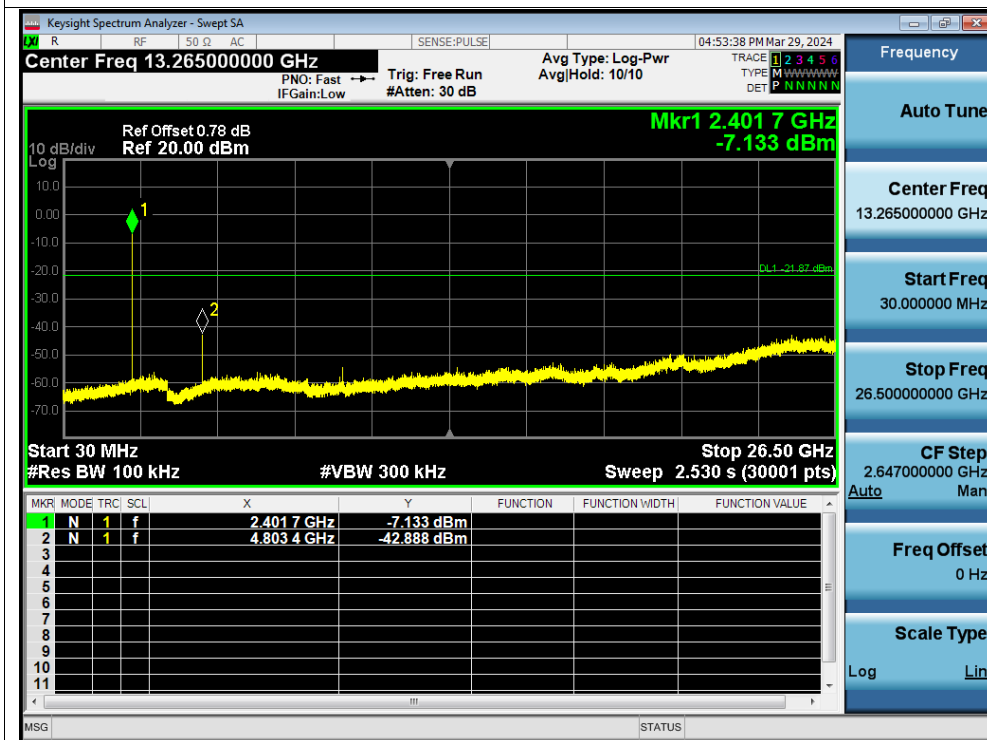
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

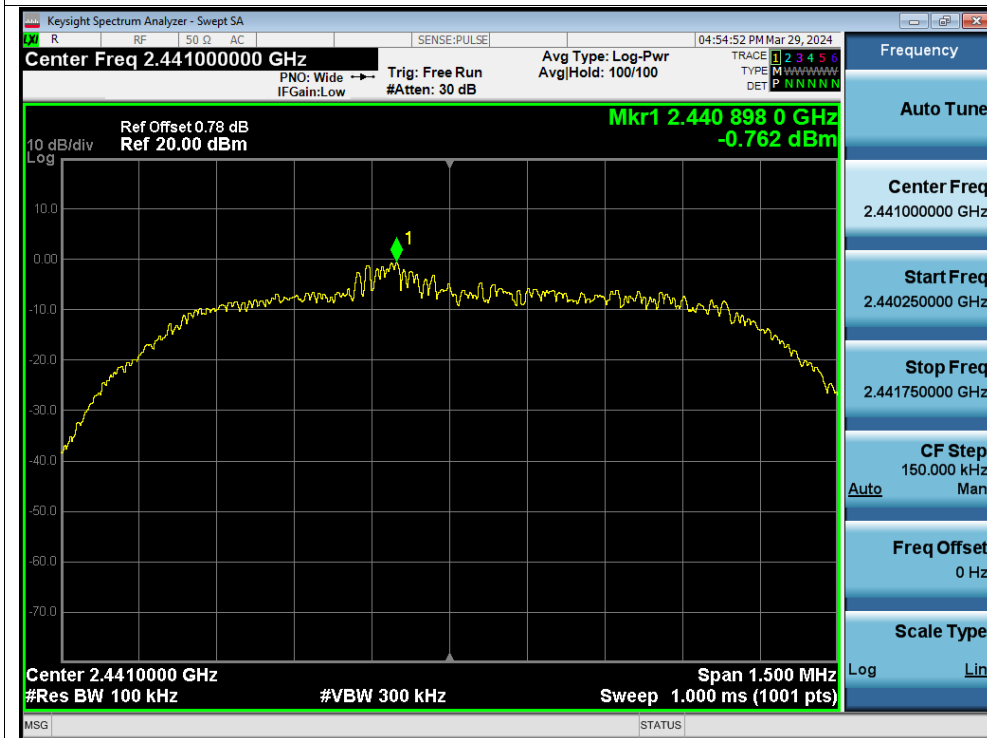


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

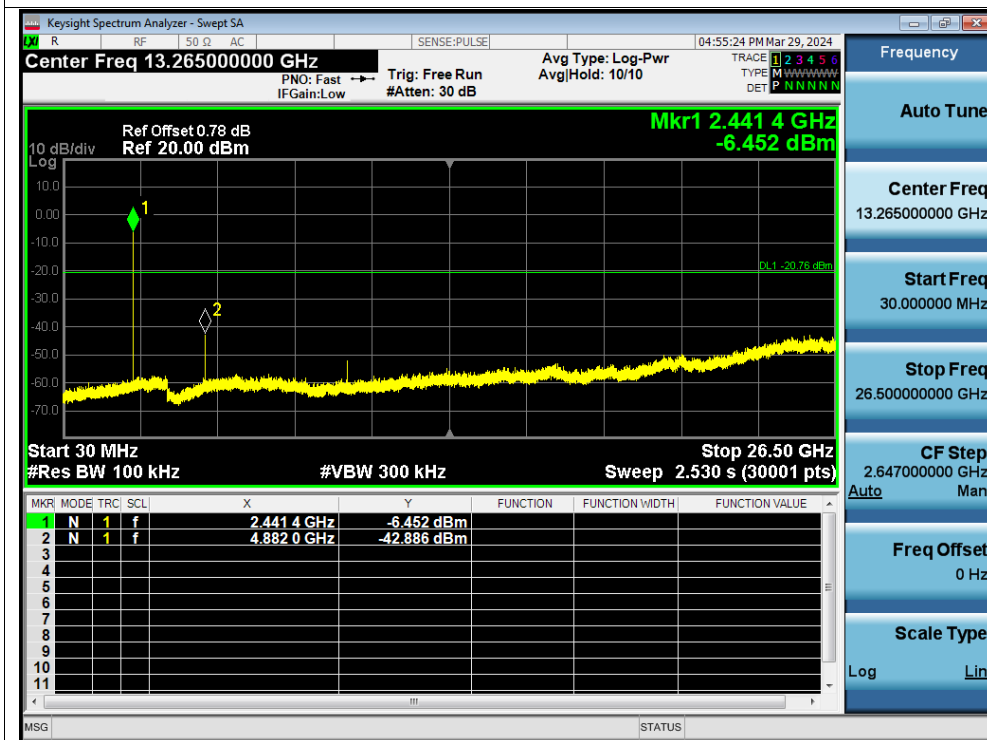




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



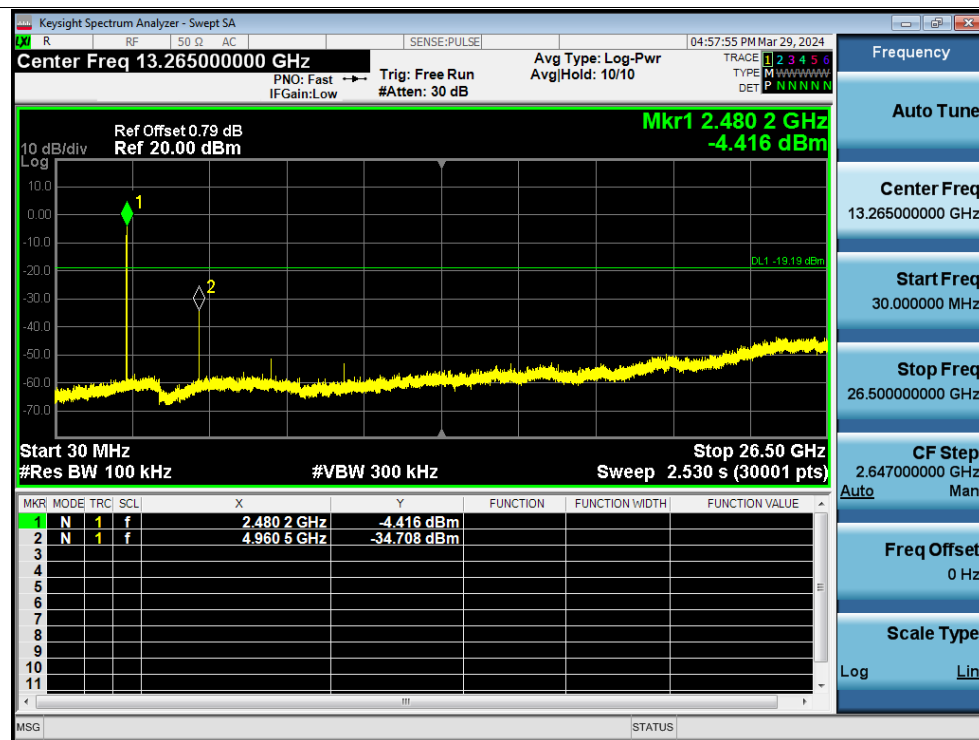
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



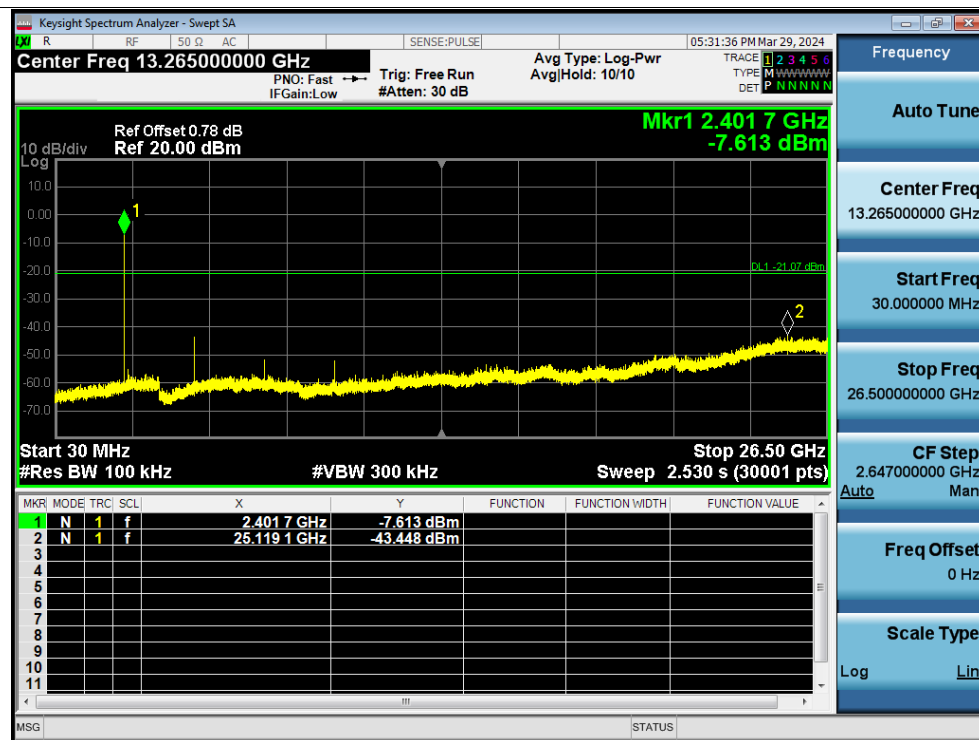
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



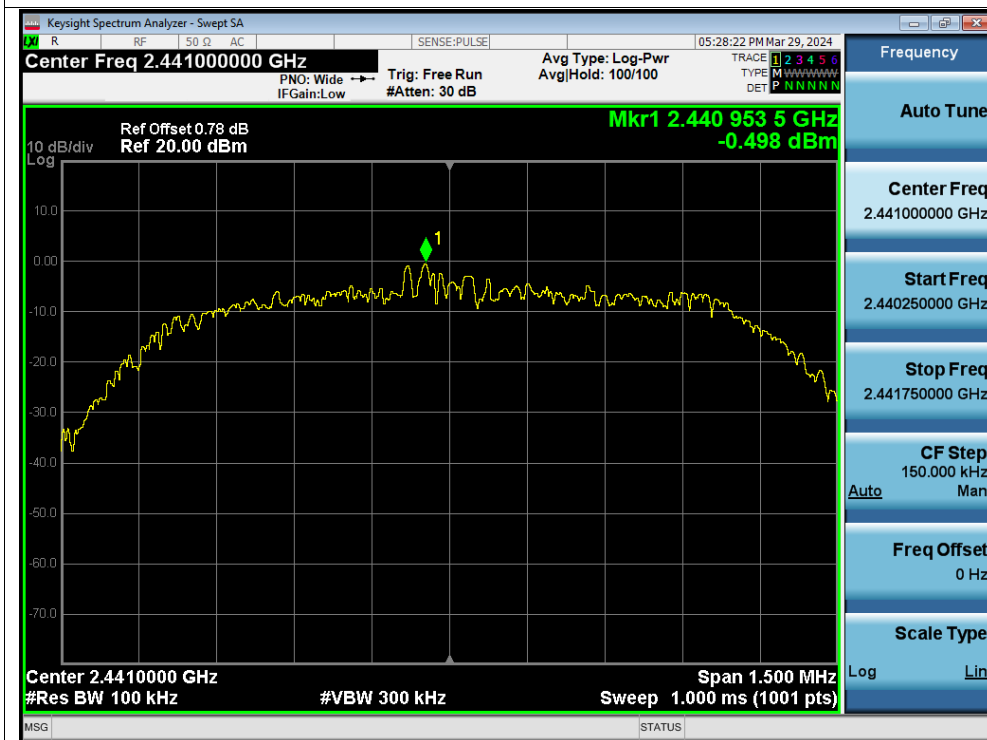
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



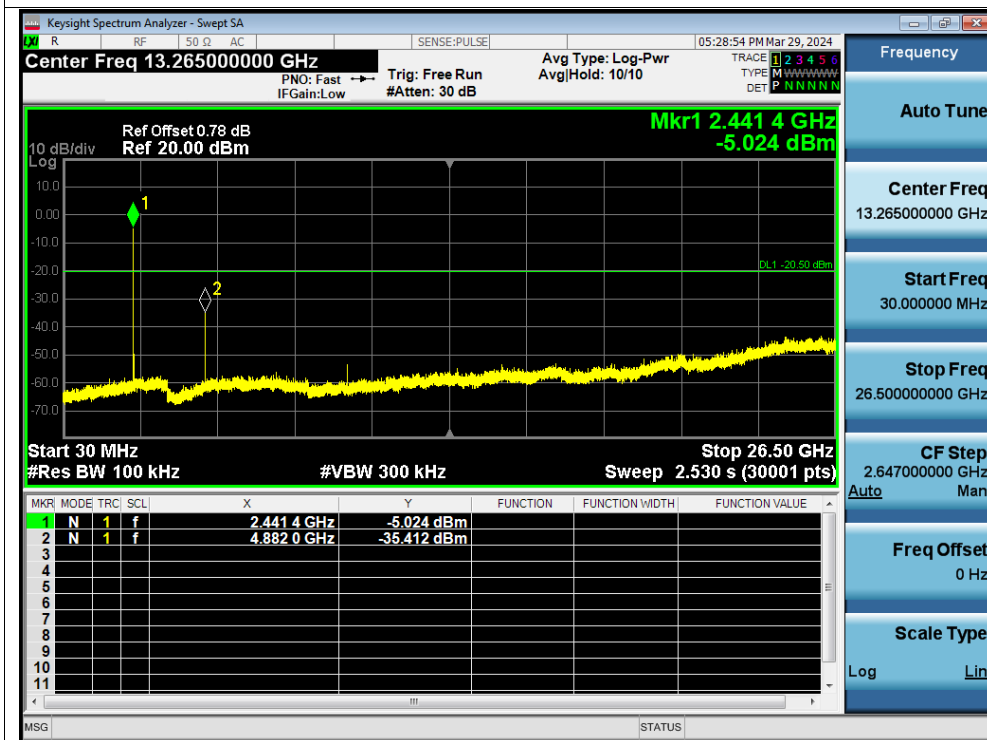
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



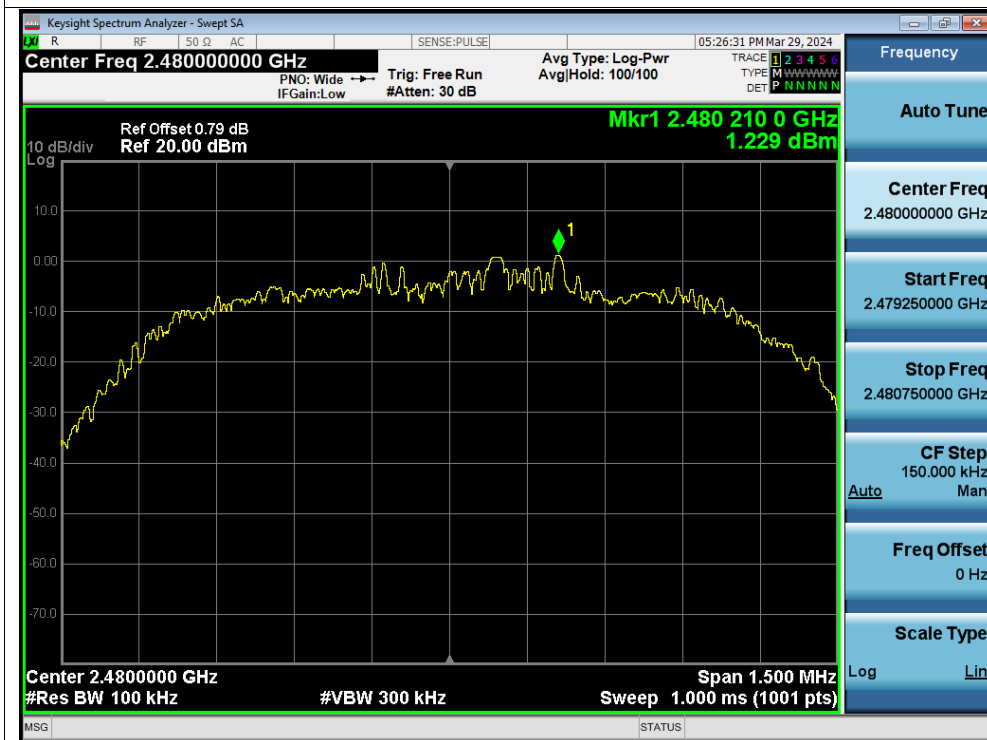
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission

