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# FCC ID: 2BFVI-BT2973

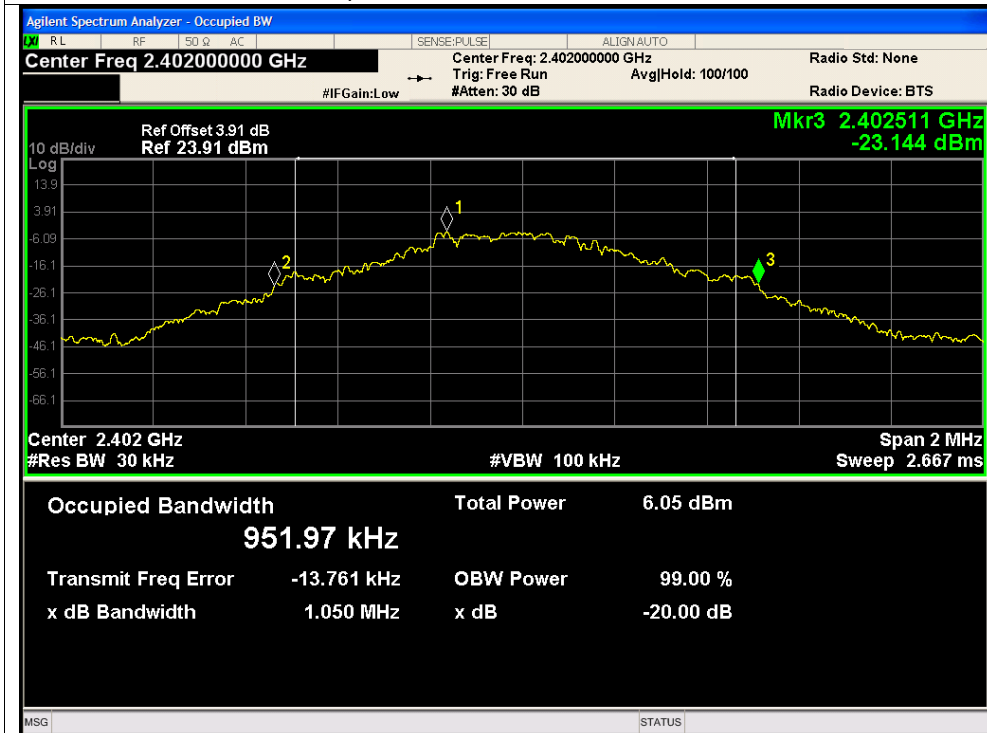
## BT Test Data

### 1. -20dB Bandwidth and 99% Occupied Bandwidth

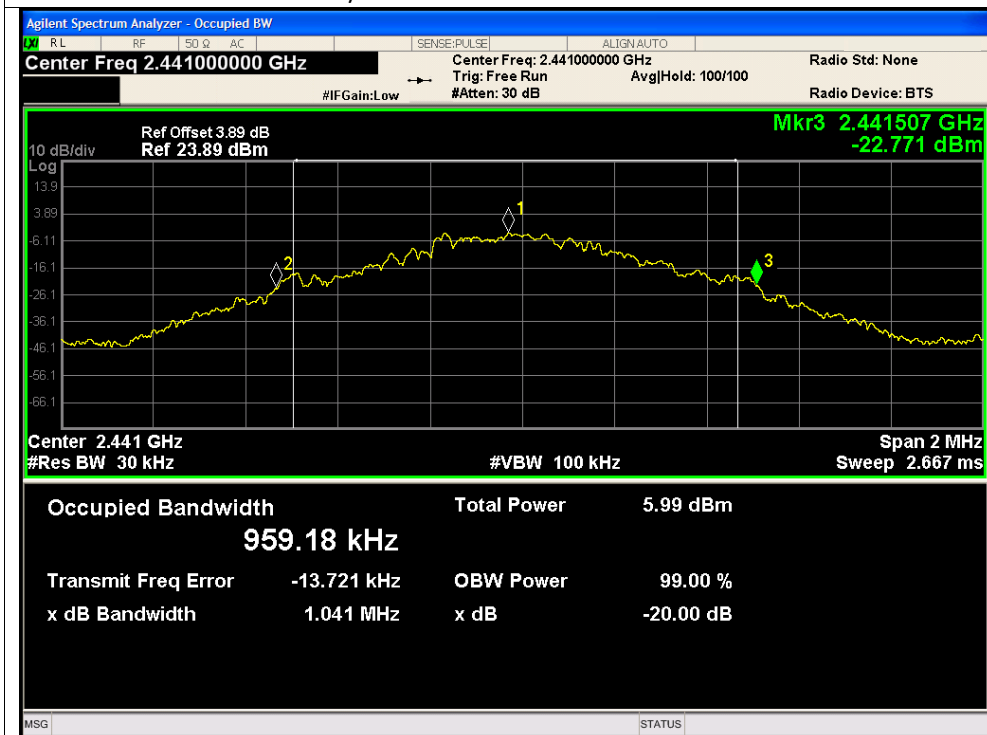
| Condition | Mode  | Frequency (MHz) | Antenna | -20 dB Bandwidth (MHz) | 99% Bandwidth (MHz) | Limit (MHz) | Verdict |
|-----------|-------|-----------------|---------|------------------------|---------------------|-------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | 1.05                   | 0.952               | N/A         | Pass    |
| NVNT      | 1-DH5 | 2441            | Ant1    | 1.041                  | 0.958               | N/A         | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | 1.041                  | 0.960               | N/A         | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | 1.325                  | 1.229               | N/A         | Pass    |
| NVNT      | 2-DH5 | 2441            | Ant1    | 1.339                  | 1.233               | N/A         | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | 1.339                  | 1.225               | N/A         | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | 1.3                    | 1.216               | N/A         | Pass    |
| NVNT      | 3-DH5 | 2441            | Ant1    | 1.275                  | 1.207               | N/A         | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | 1.305                  | 1.194               | N/A         | Pass    |

## Test Graphs

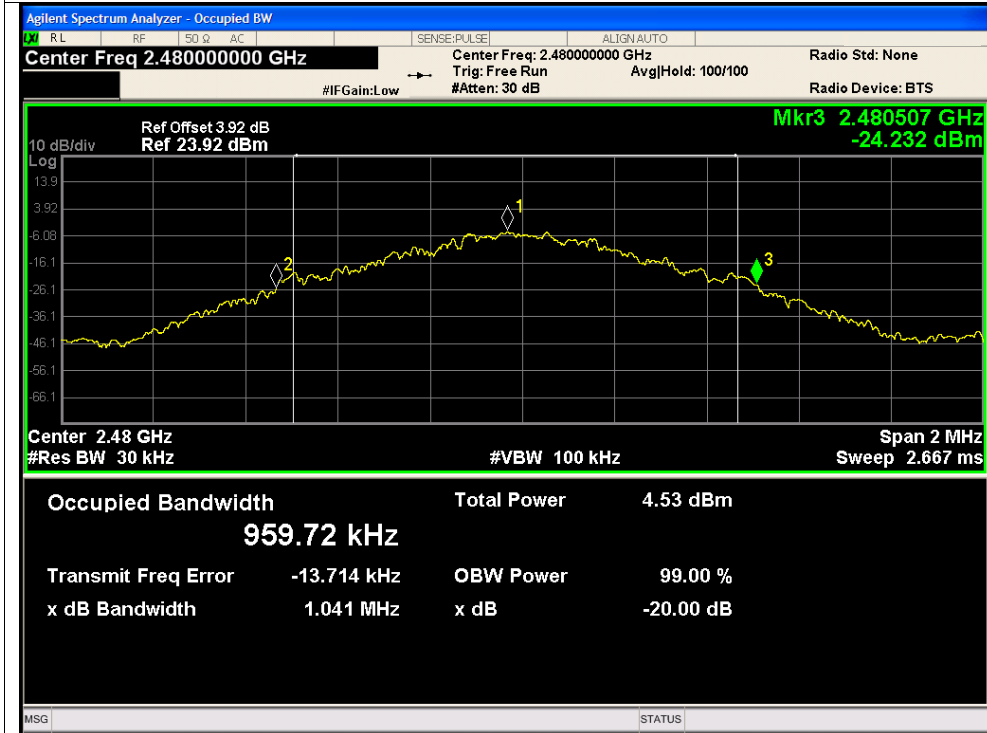
### -20dB Bandwidth / 99% Bandwidth NVNT 1-DH5 2402MHz Ant1



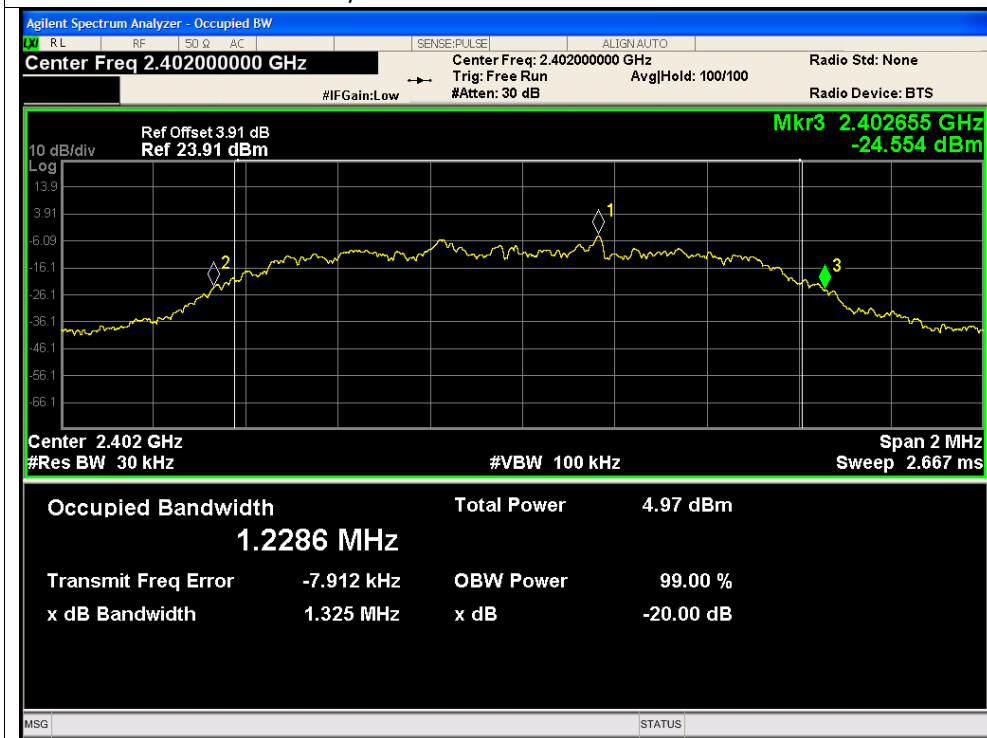
### -20dB Bandwidth / 99% Bandwidth NVNT 1-DH5 2441MHz Ant1



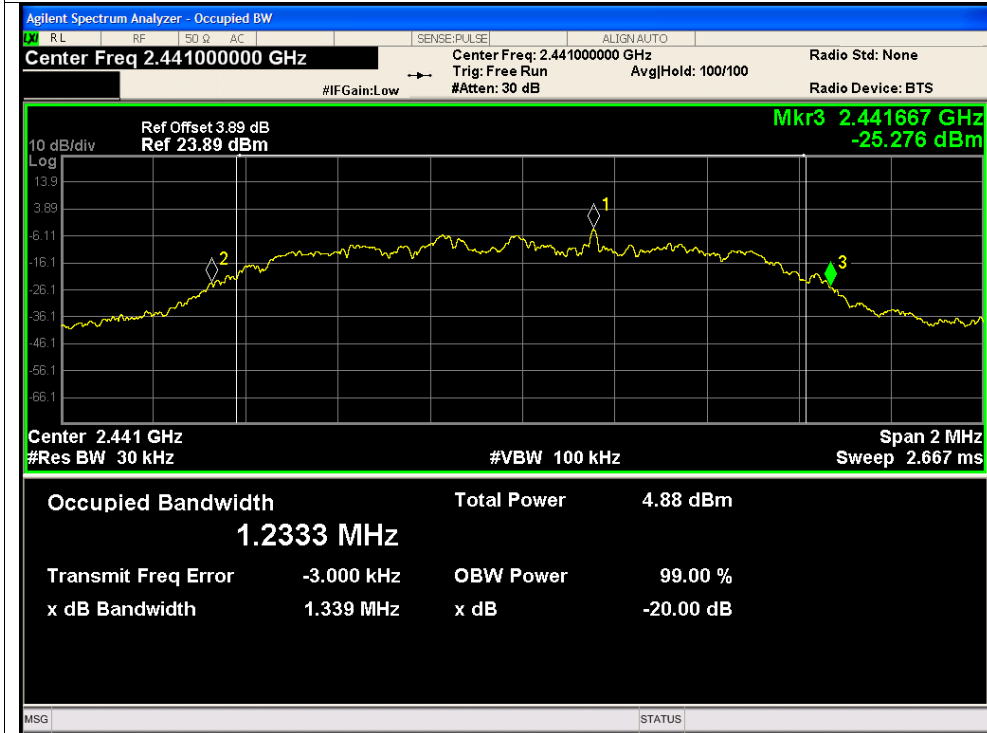
**-20dB Bandwidth / 99% Bandwidth NVNT 1-DH5 2480MHz Ant1**



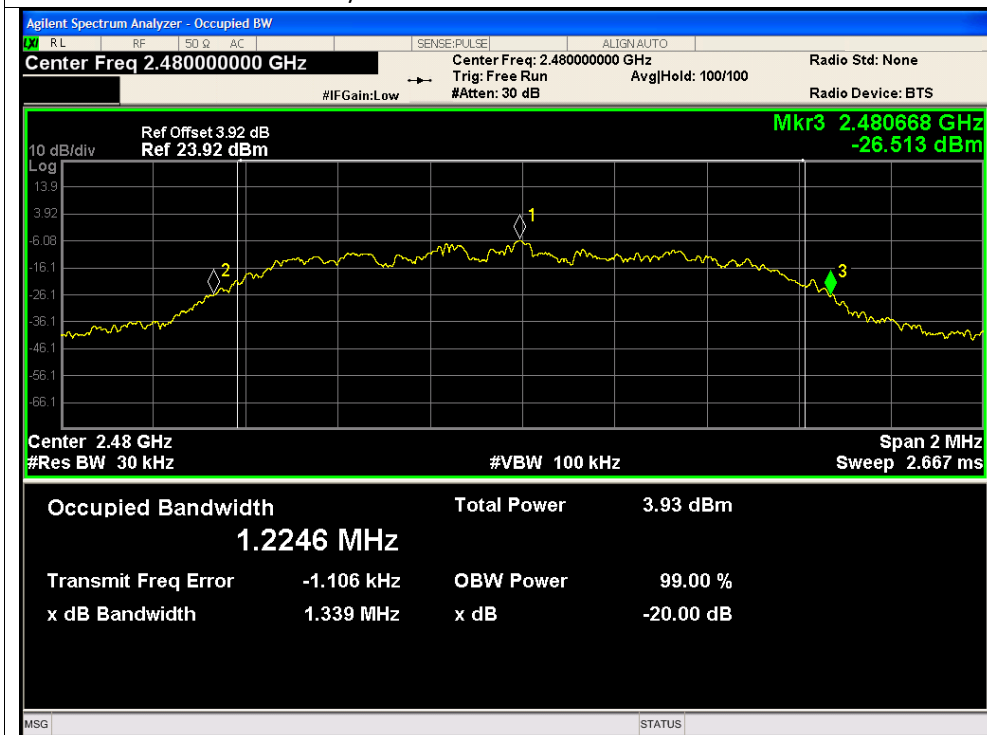
**-20dB Bandwidth / 99% Bandwidth NVNT 2-DH5 2402MHz Ant1**



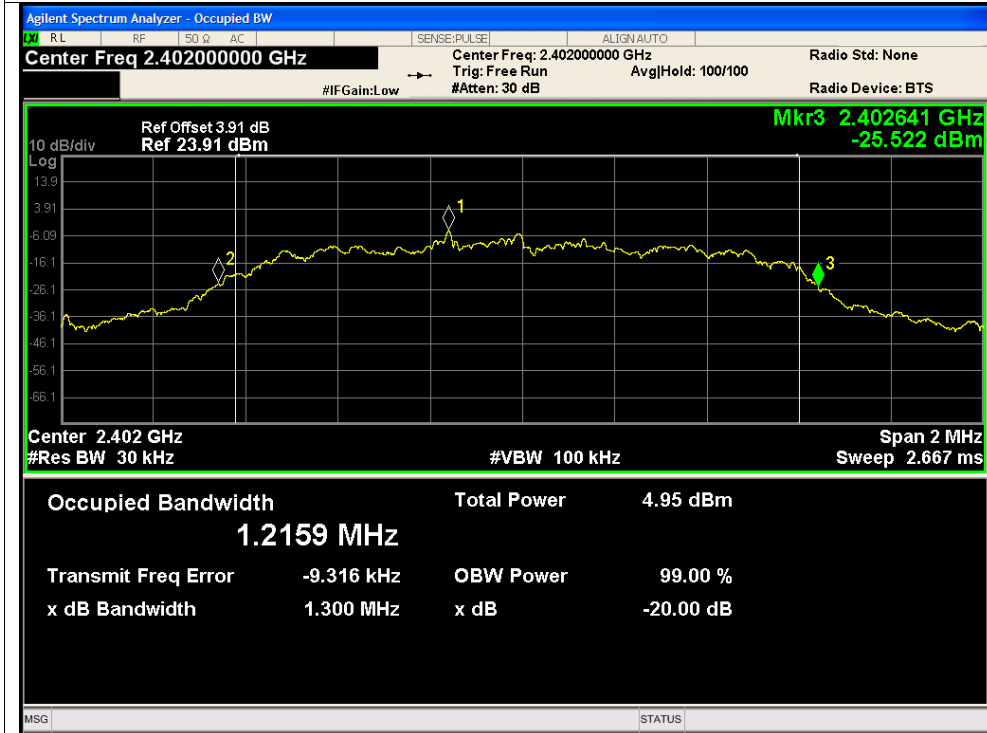
**-20dB Bandwidth / 99% Bandwidth NVNT 2-DH5 2441MHz Ant1**



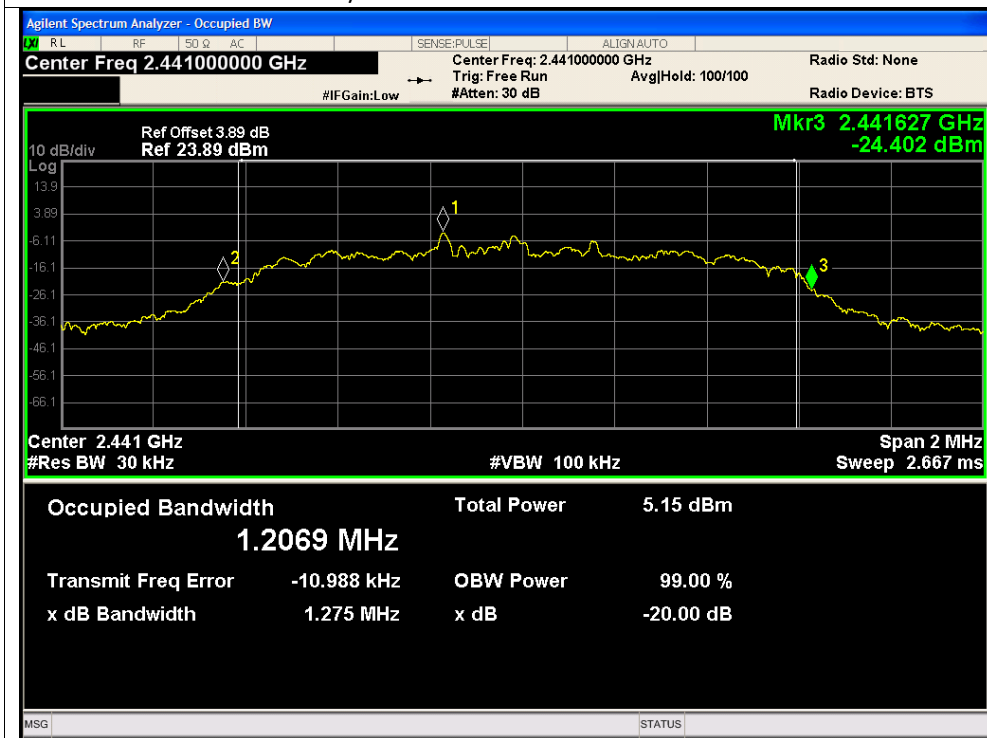
**-20dB Bandwidth / 99% Bandwidth NVNT 2-DH5 2480MHz Ant1**



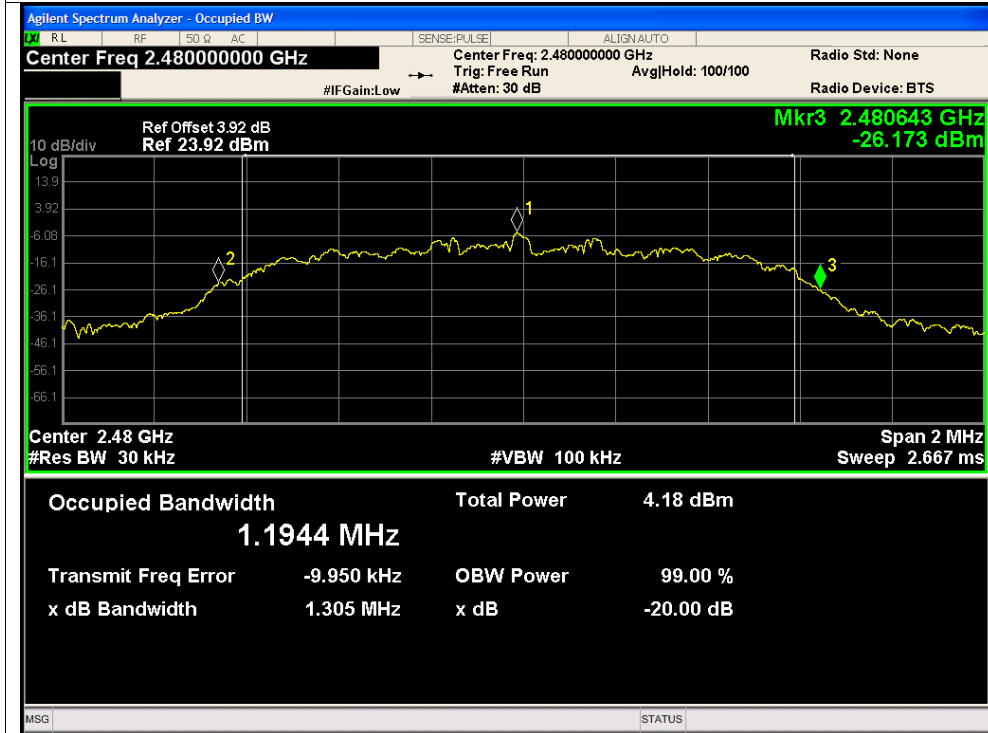
**-20dB Bandwidth / 99% Bandwidth NVNT 3-DH5 2402MHz Ant1**



**-20dB Bandwidth / 99% Bandwidth NVNT 3-DH5 2441MHz Ant1**



**-20dB Bandwidth / 99% Bandwidth NVNT 3-DH5 2480MHz Ant1**



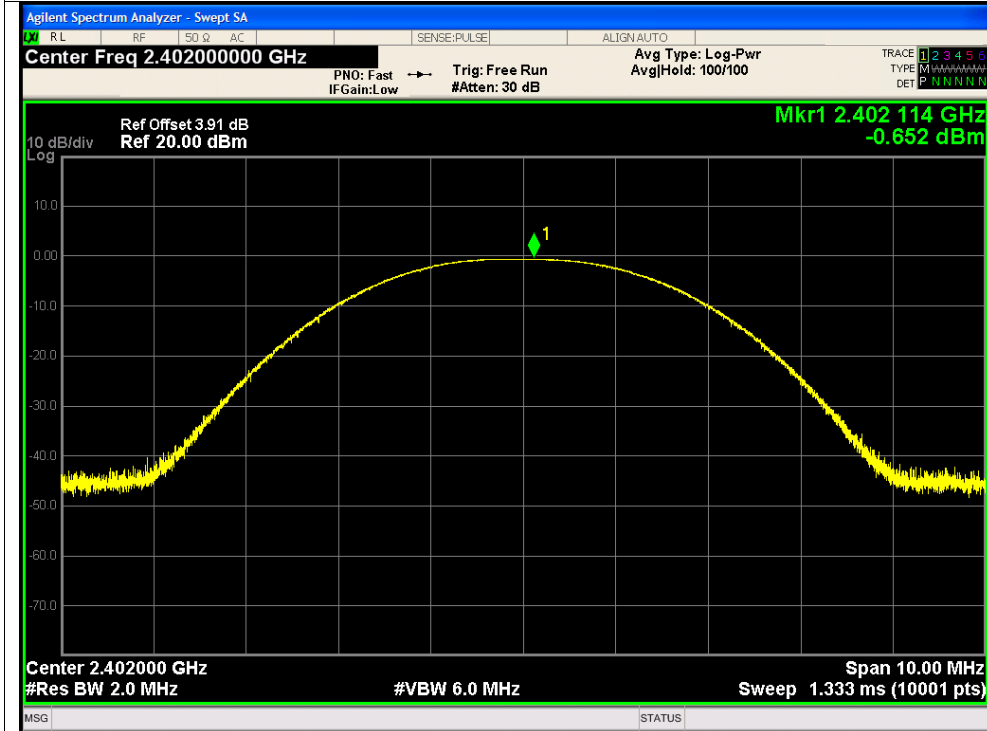
## 2. Peak Output Power

| Condition | Mode  | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|-------|-----------------|---------|-----------------------|-------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | -0.65                 | 21          | Pass    |
| NVNT      | 1-DH5 | 2441            | Ant1    | -0.74                 | 21          | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | -1.68                 | 21          | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | 0.2                   | 21          | Pass    |
| NVNT      | 2-DH5 | 2441            | Ant1    | -0.01                 | 21          | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | -0.89                 | 21          | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | 0.52                  | 21          | Pass    |
| NVNT      | 3-DH5 | 2441            | Ant1    | 0.35                  | 21          | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | -0.54                 | 21          | Pass    |

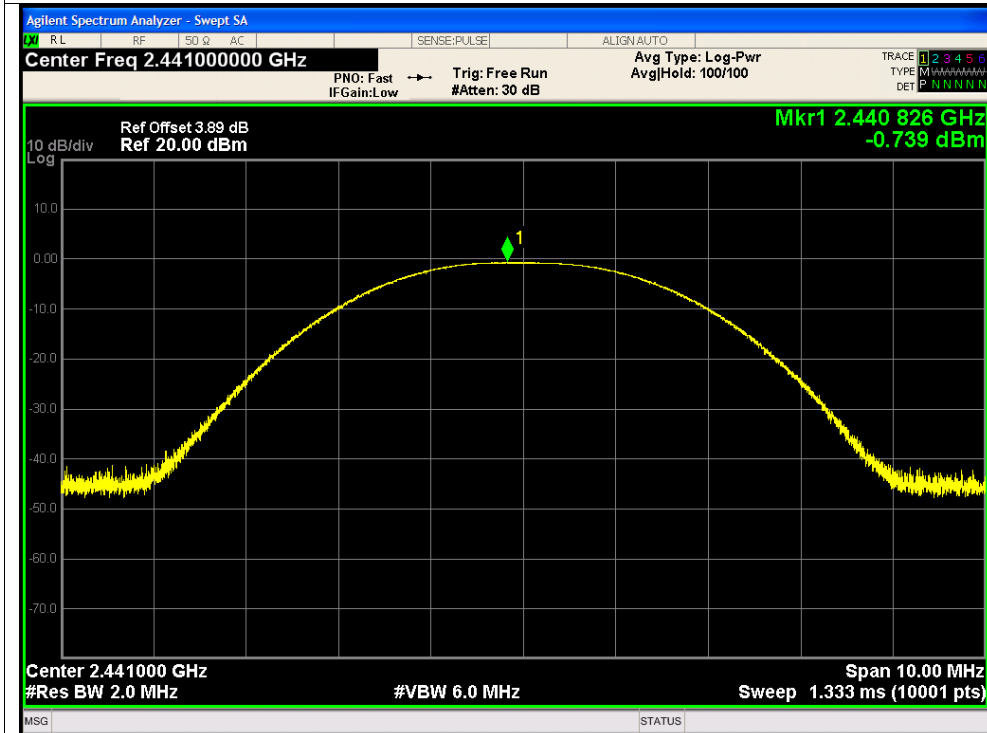


# Test Graphs

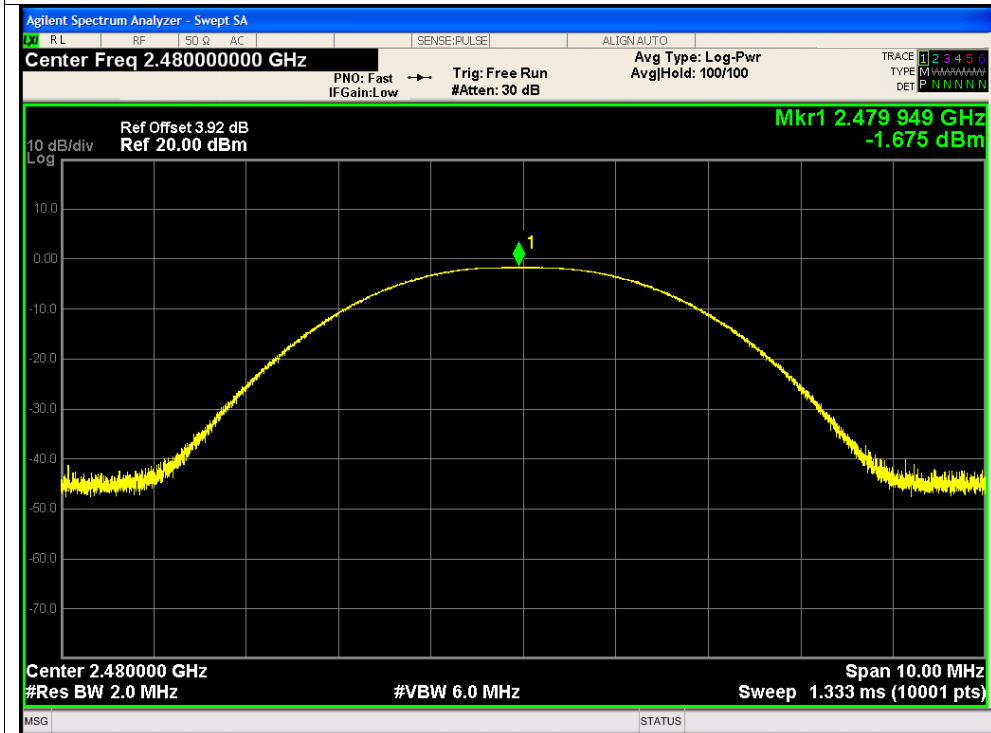
## Power NVNT 1-DH5 2402MHz Ant1



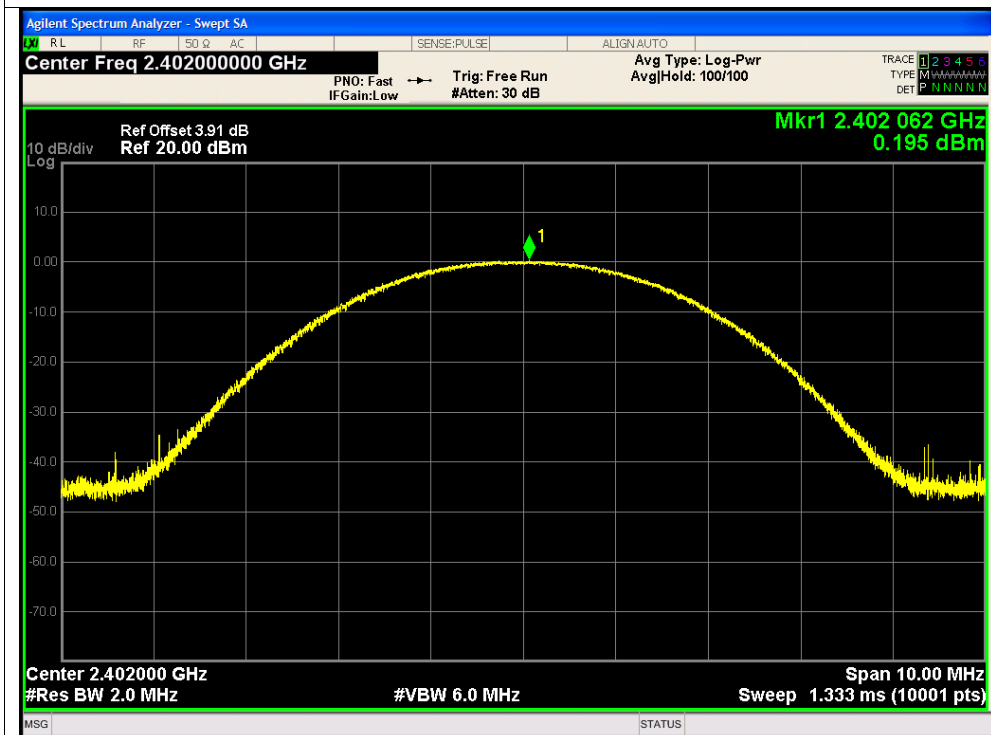
## Power NVNT 1-DH5 2441MHz Ant1



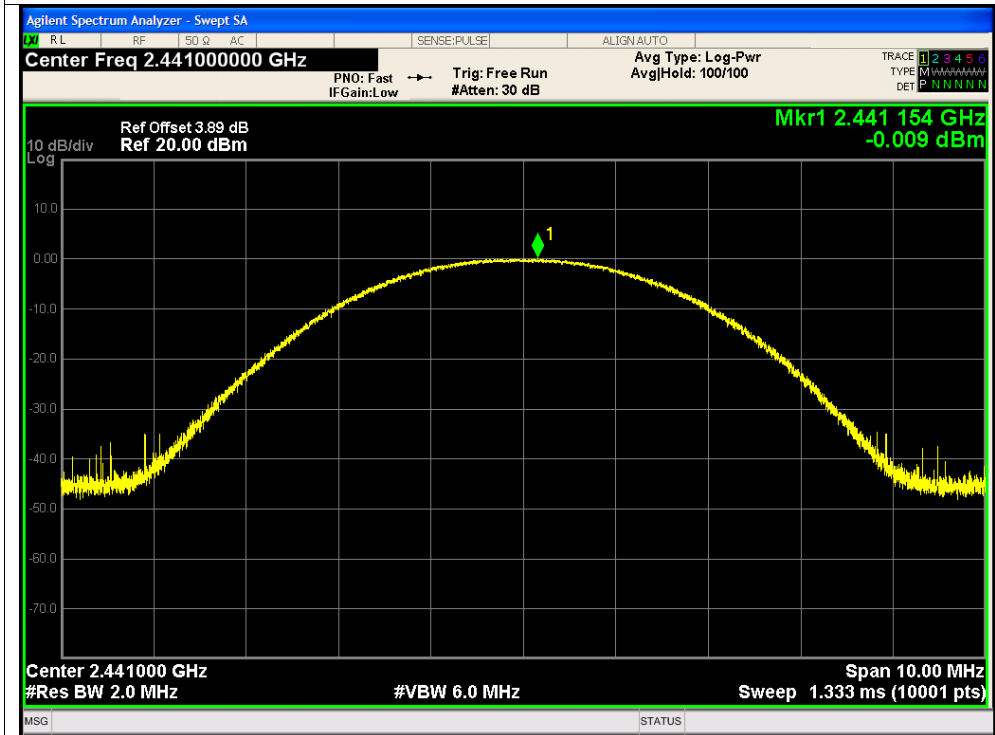
Power NVNT 1-DH5 2480MHz Ant1



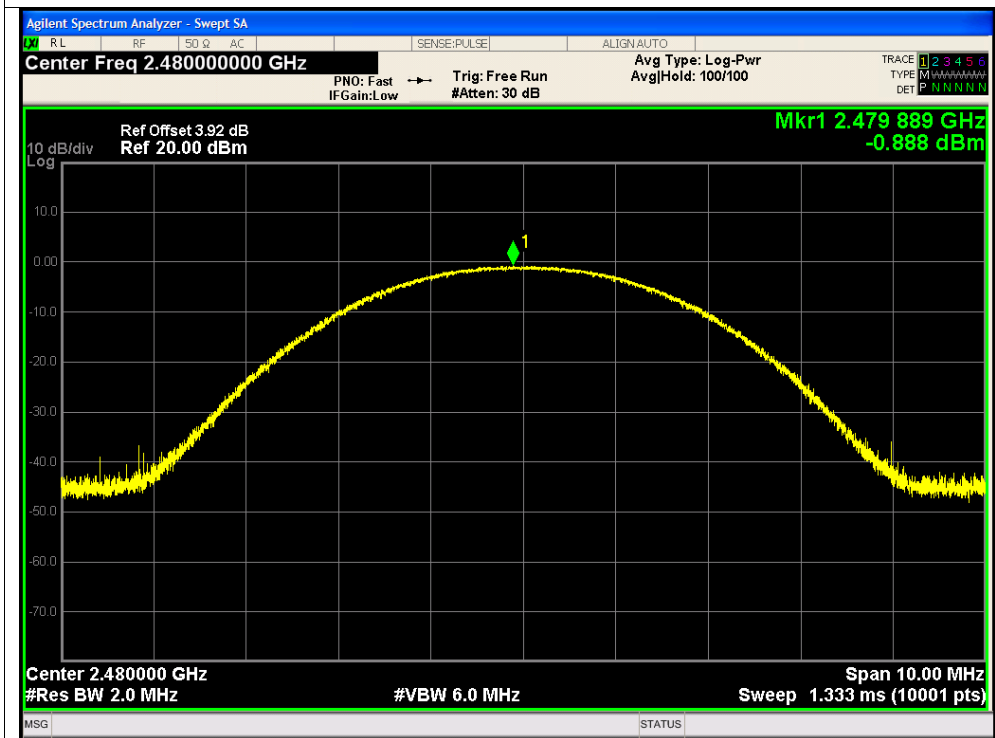
Power NVNT 2-DH5 2402MHz Ant1



Power NVNT 2-DH5 2441MHz Ant1

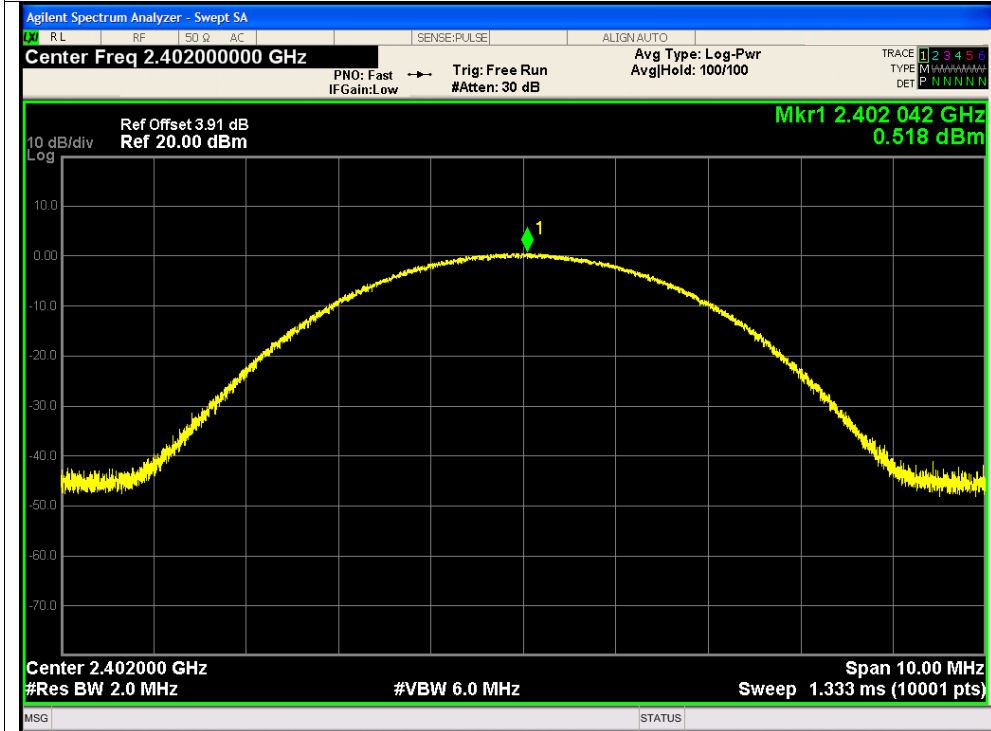


Power NVNT 2-DH5 2480MHz Ant1

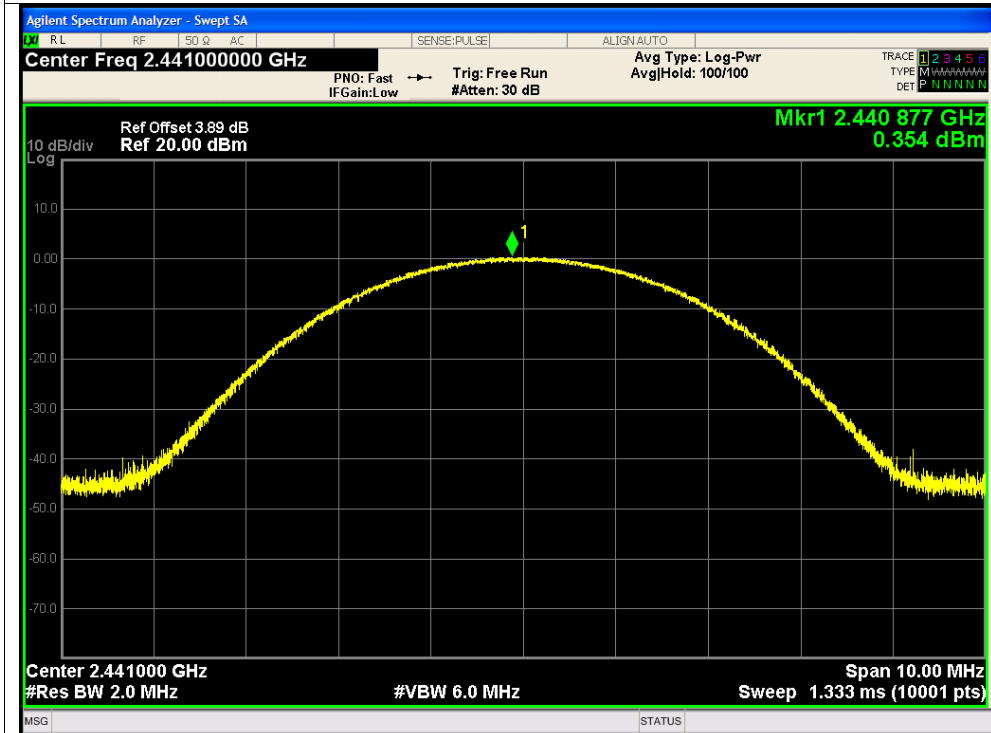


# Test Graphs

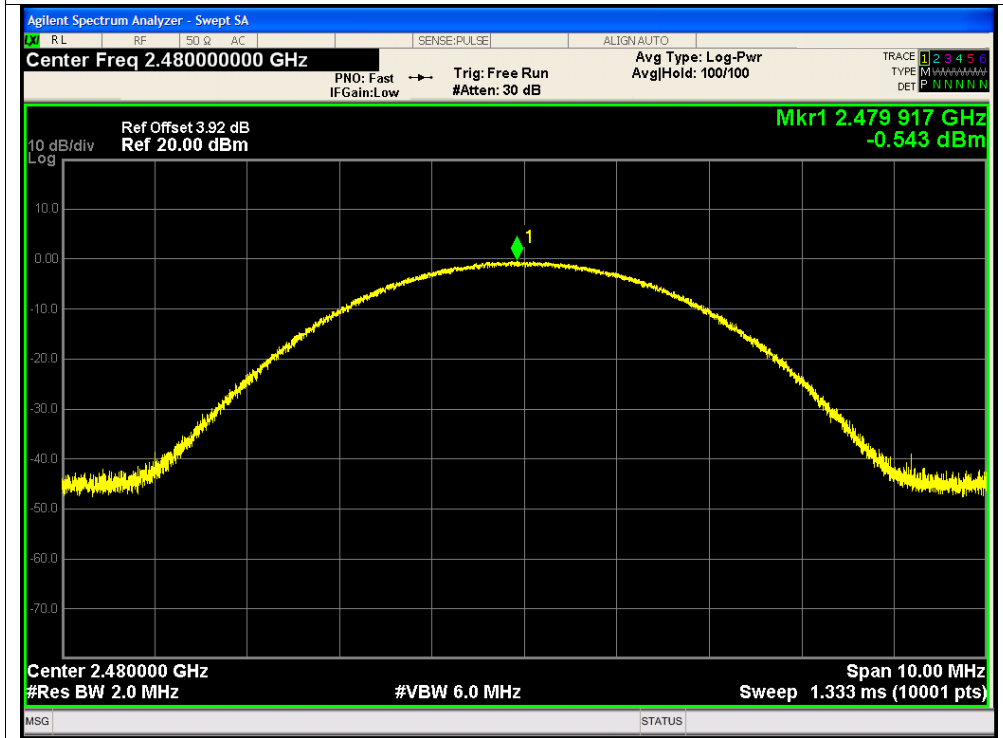
## Power NVNT 3-DH5 2402MHz Ant1



## Power NVNT 3-DH5 2441MHz Ant1

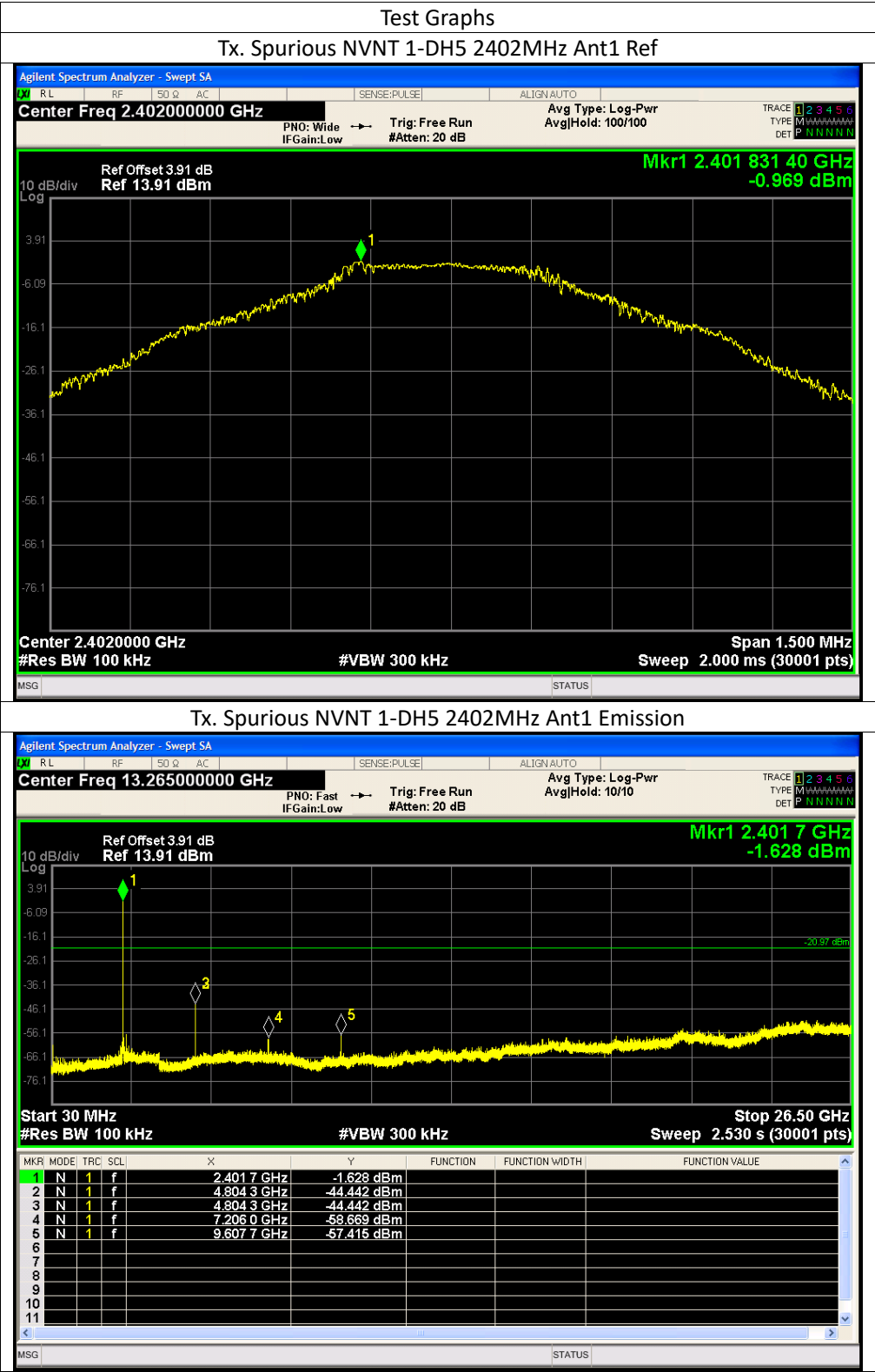


Power NVNT 3-DH5 2480MHz Ant1

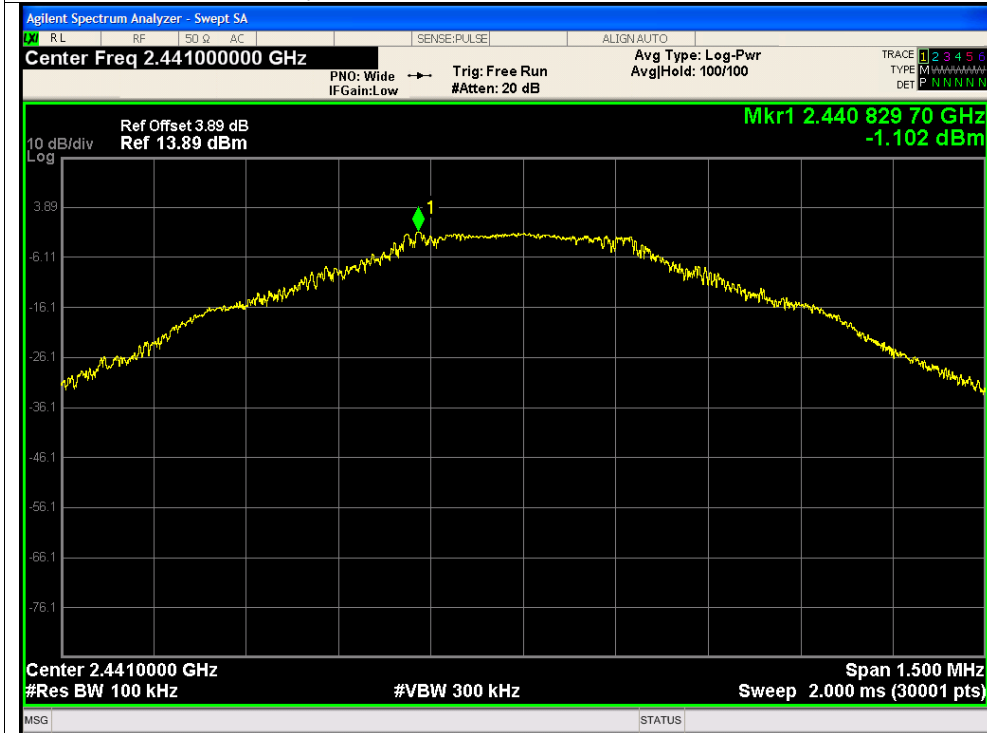


3. Spurious Emissions

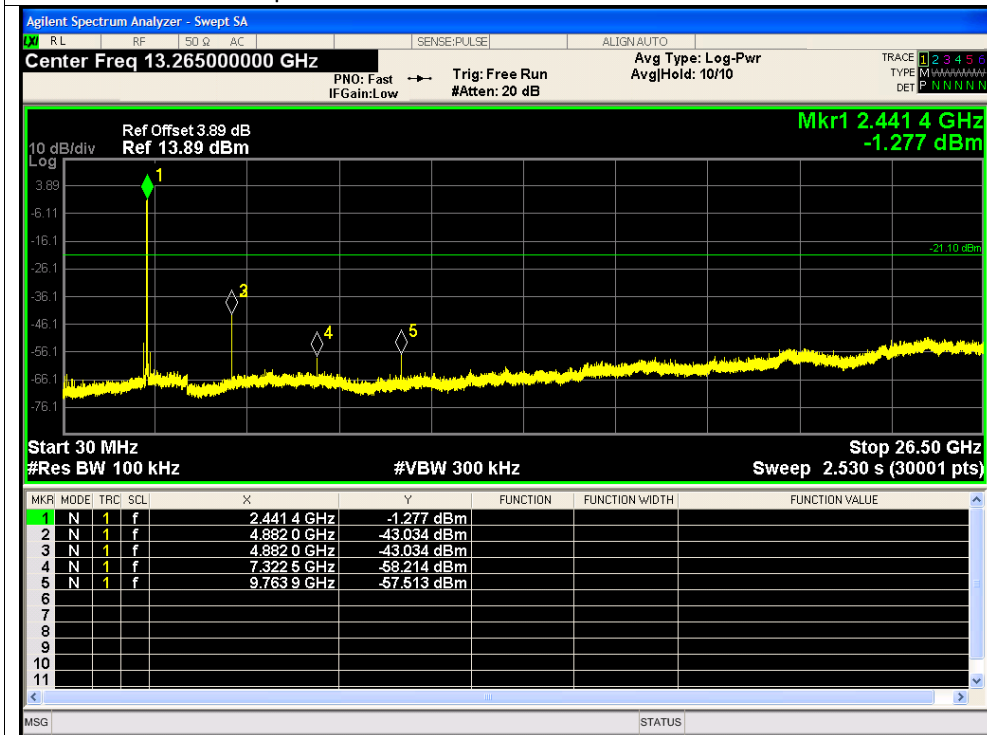
All the modes have tested and recorded the worst mode (GFSK) in the report



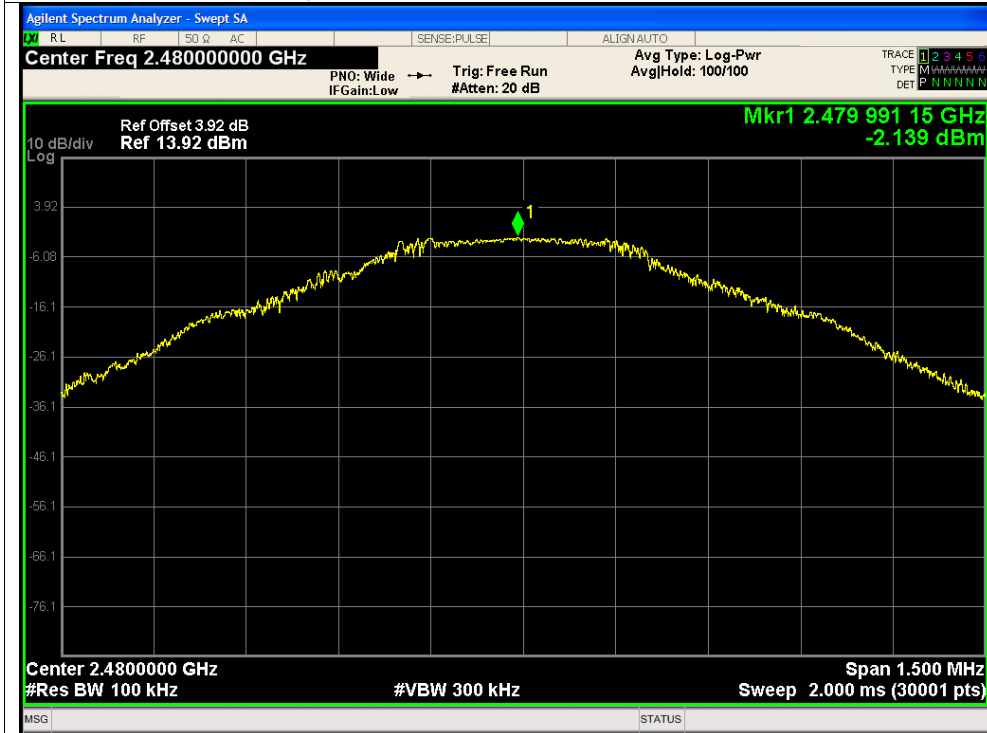
# Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



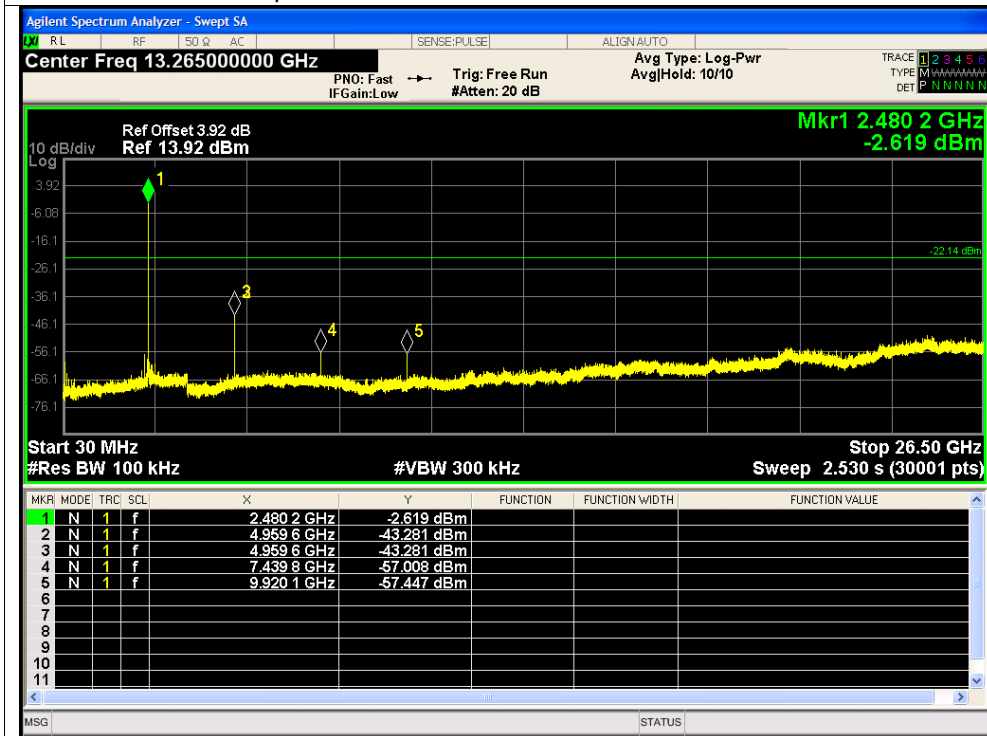
# Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



# Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



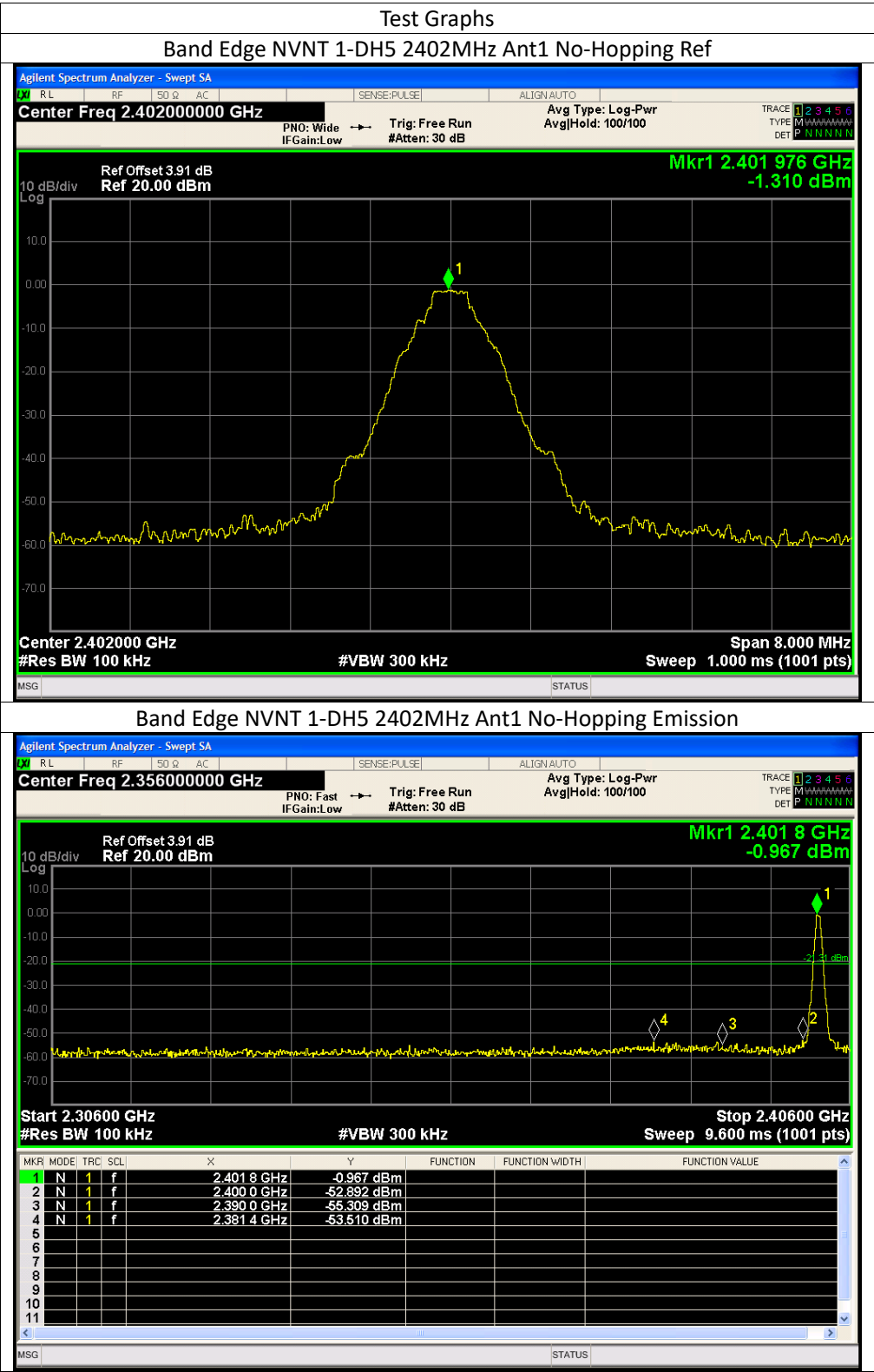
# Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



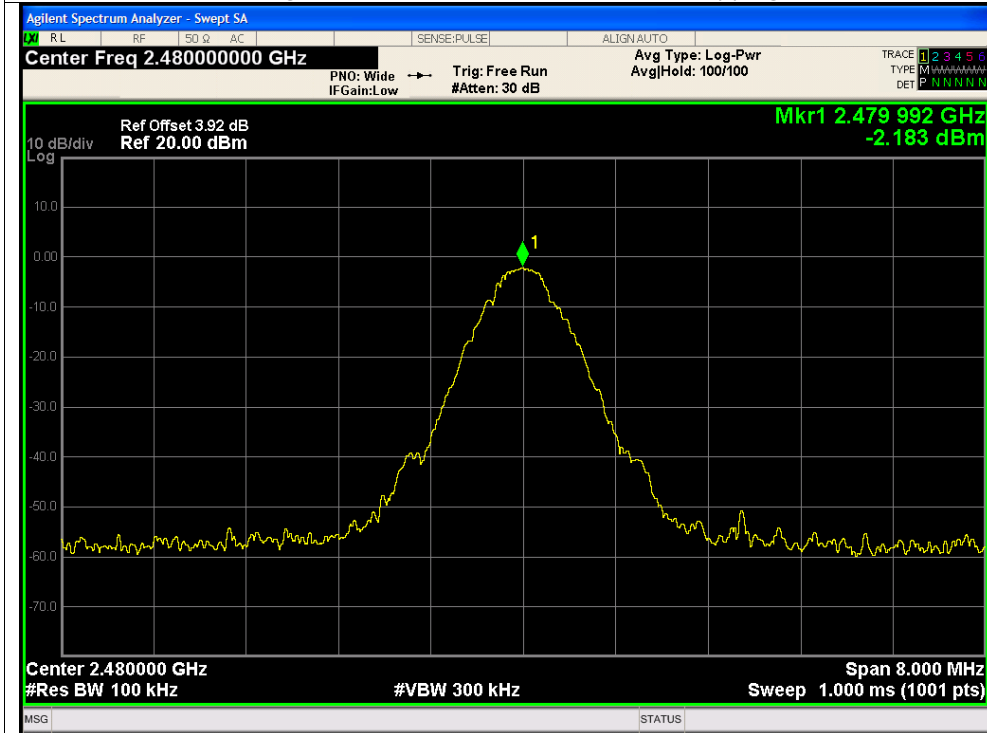


4. Bandedge

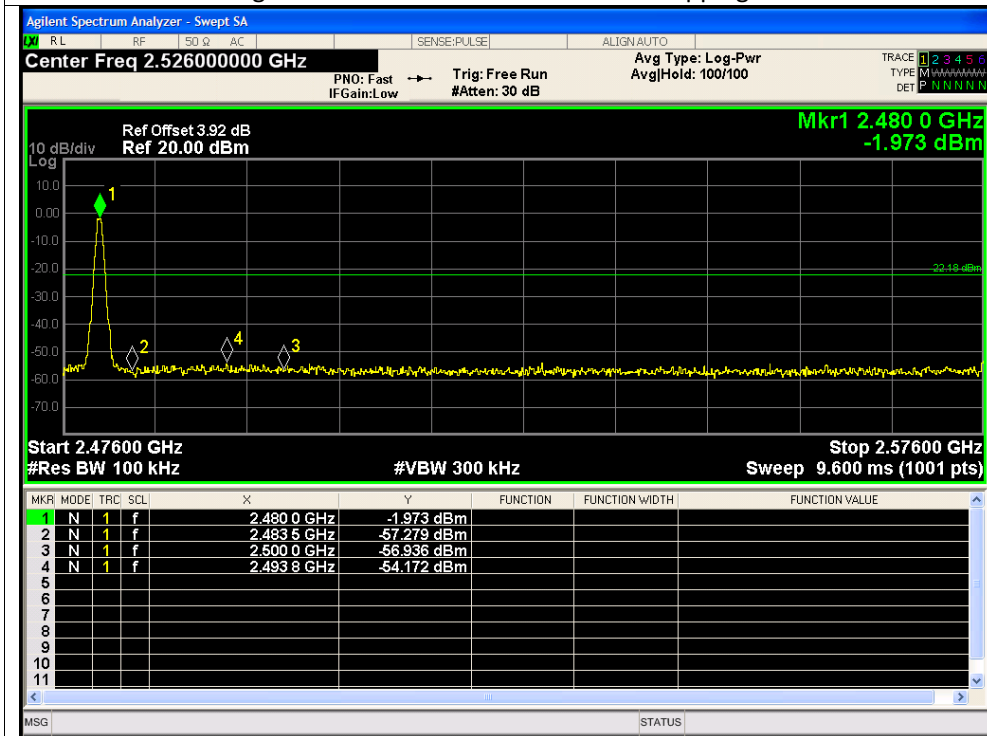
All the modes have tested and recorded the worst mode (GFSK) in the report



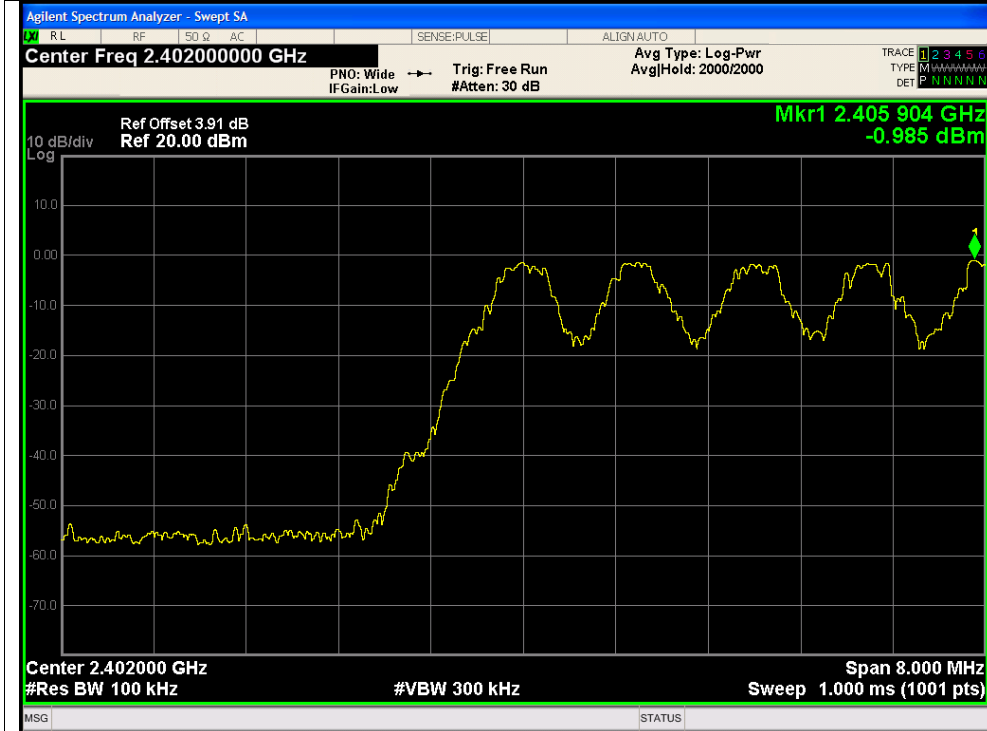
# Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



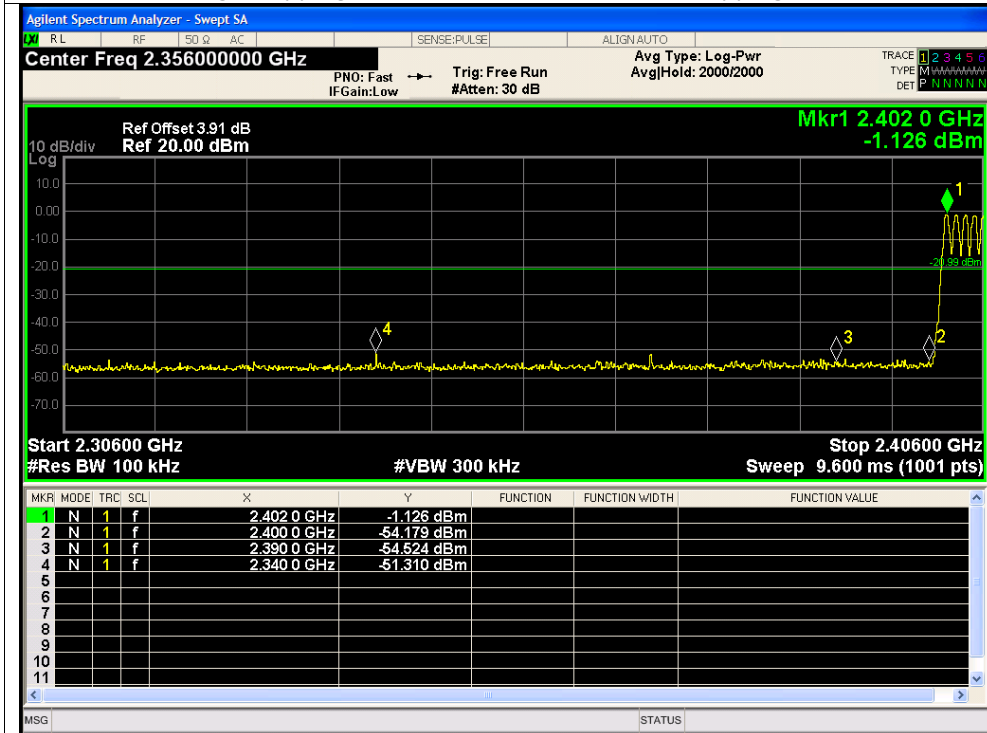
# Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



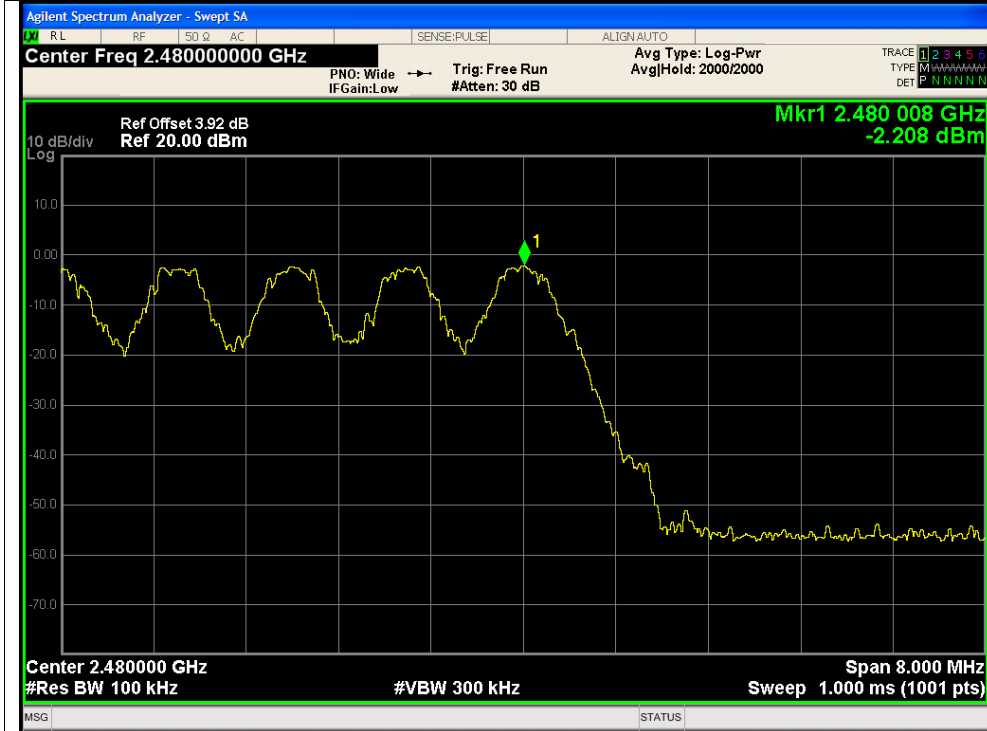
# Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



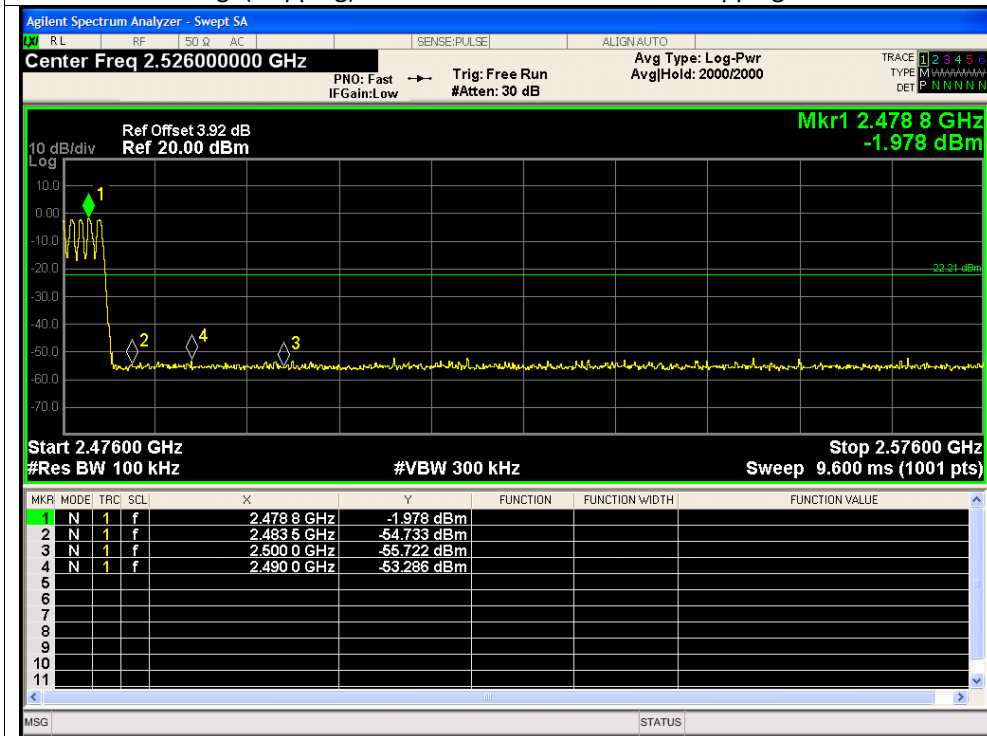
# Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



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



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

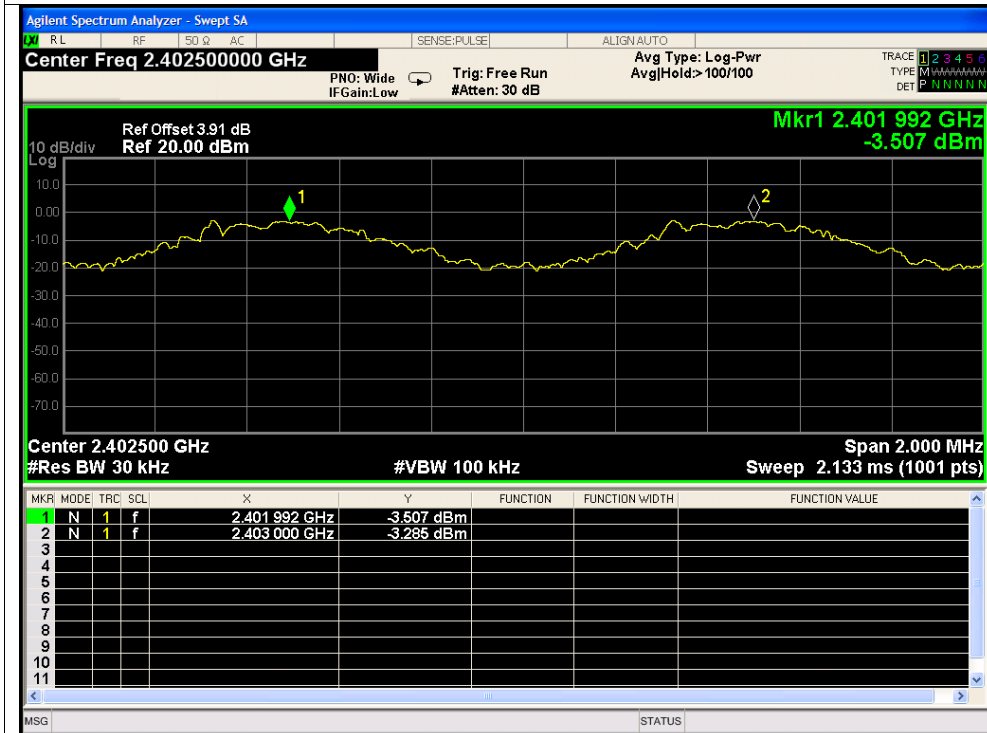


## 5. Carrier Frequencies Separation (Hopping)

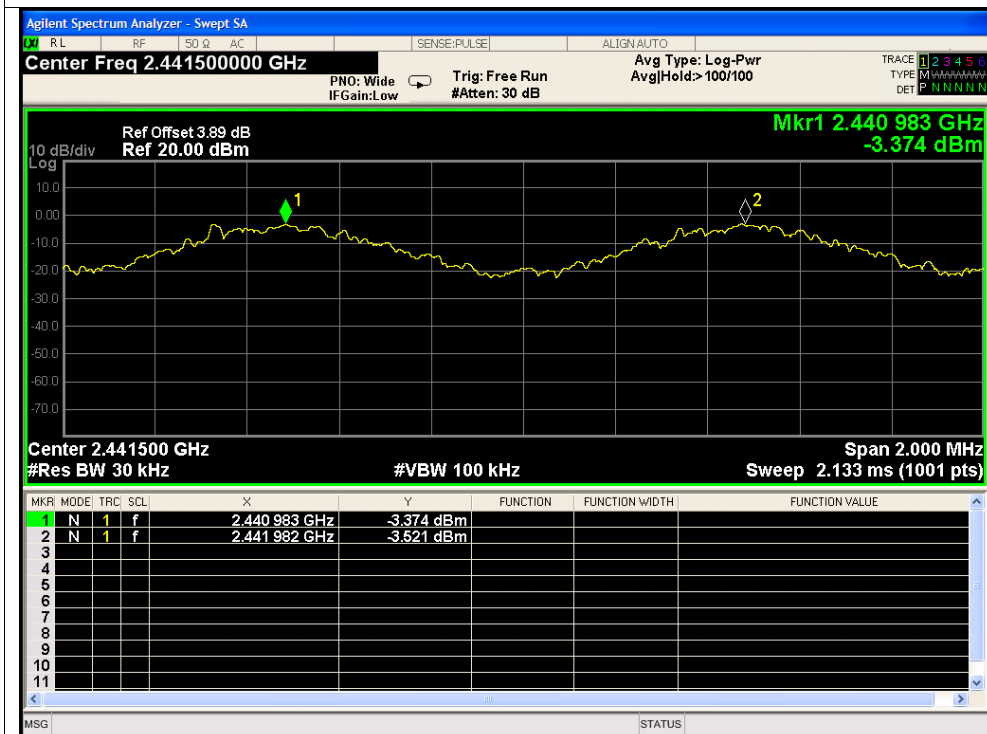
| Condition                          | Mode  | Antenna | Channel Frequency (MHz) | Hopping Freq1 (MHz) | Hopping Freq2 (MHz) | Carrier Frequencies Separation (MHz) | Limit (MHz) | Verdict |
|------------------------------------|-------|---------|-------------------------|---------------------|---------------------|--------------------------------------|-------------|---------|
| NVNT                               | 1-DH5 | Ant1    | 2402                    | 2401.992            | 2403                | 1.008                                | >0.7        | Pass    |
| NVNT                               | 1-DH5 | Ant1    | 2441                    | 2440.983            | 2441.982            | 0.999                                | >0.694      | Pass    |
| NVNT                               | 1-DH5 | Ant1    | 2480                    | 2478.977            | 2479.977            | 1                                    | >0.694      | Pass    |
| NVNT                               | 2-DH5 | Ant1    | 2402                    | 2401.988            | 2402.972            | 0.984                                | >0.883      | Pass    |
| NVNT                               | 2-DH5 | Ant1    | 2441                    | 2440.834            | 2442.259            | 1.425                                | >0.893      | Pass    |
| NVNT                               | 2-DH5 | Ant1    | 2480                    | 2479.138            | 2480.14             | 1.002                                | >0.893      | Pass    |
| NVNT                               | 3-DH5 | Ant1    | 2402                    | 2401.992            | 2402.99             | 0.998                                | >0.867      | Pass    |
| NVNT                               | 3-DH5 | Ant1    | 2441                    | 2440.951            | 2441.986            | 1.035                                | >0.85       | Pass    |
| NVNT                               | 3-DH5 | Ant1    | 2480                    | 2478.969            | 2479.967            | 0.998                                | >0.87       | Pass    |
| Note: Limit = 20dB bandwidth * 2/3 |       |         |                         |                     |                     |                                      |             |         |

# Test Graphs

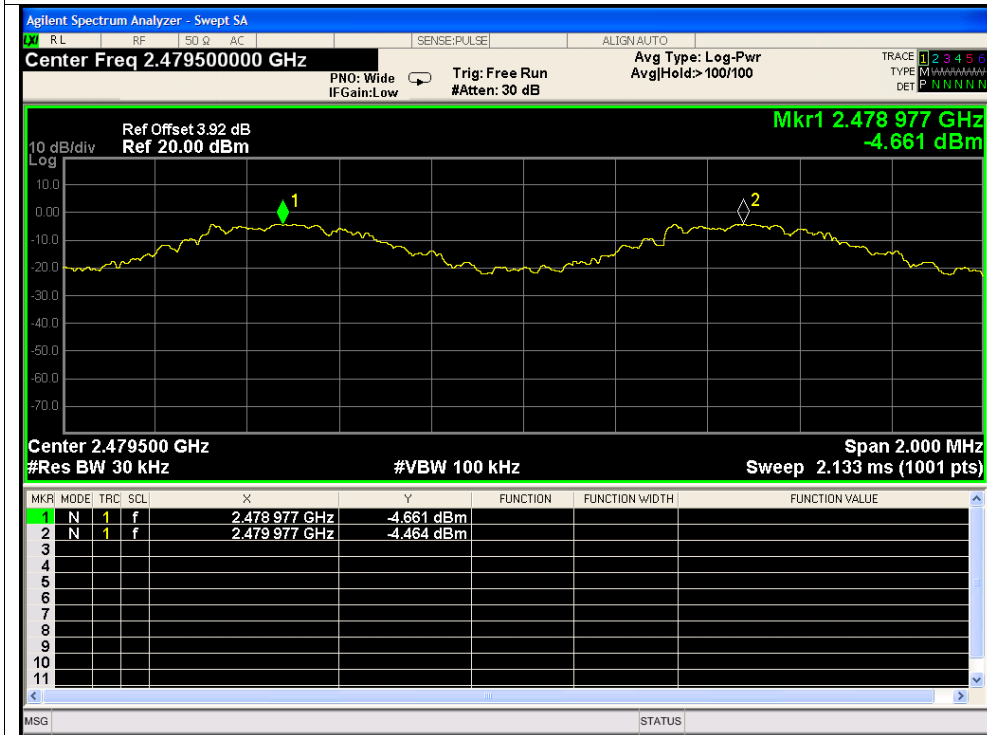
## CFS NVNT 1-DH5 2402MHz Ant1



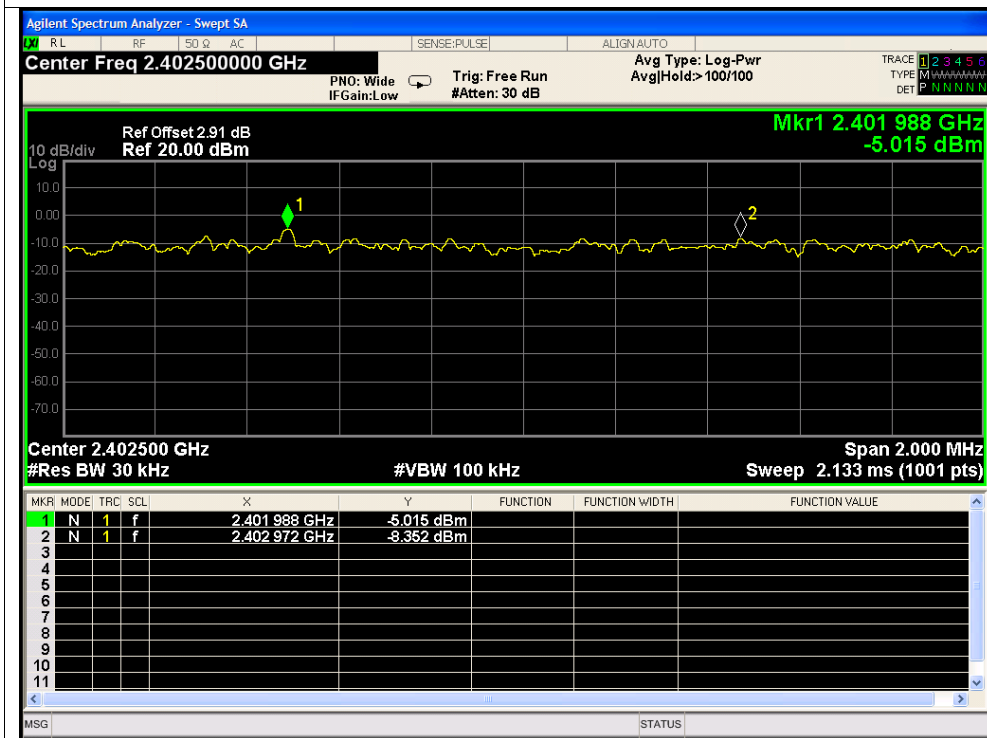
## CFS NVNT 1-DH5 2441MHz Ant1



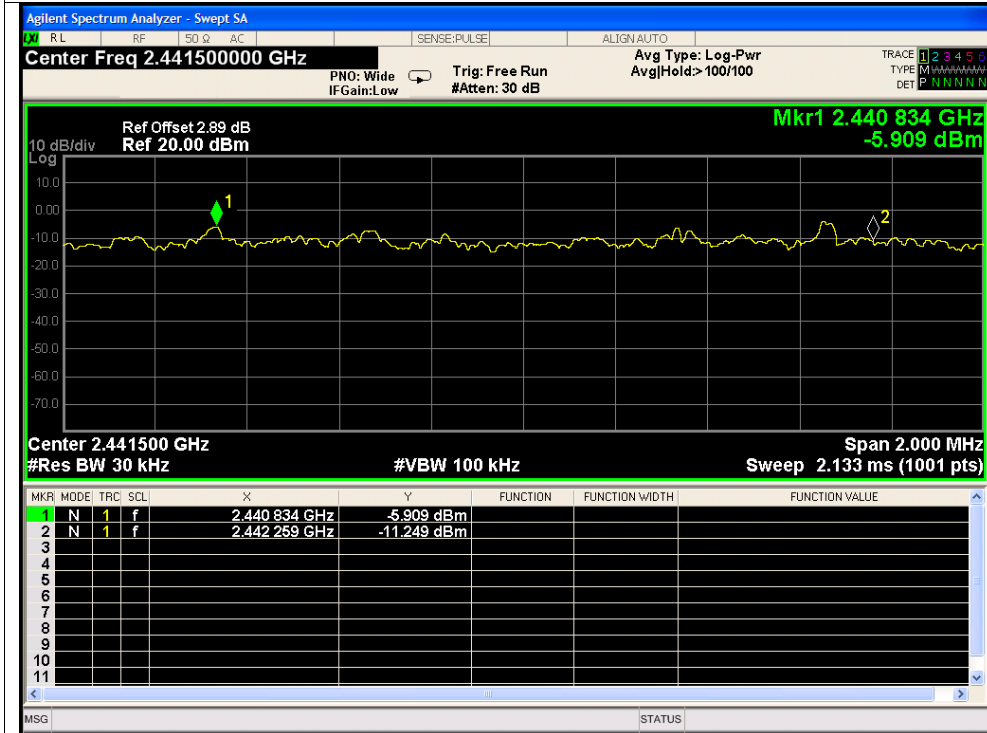
# CFS NVNT 1-DH5 2480MHz Ant1



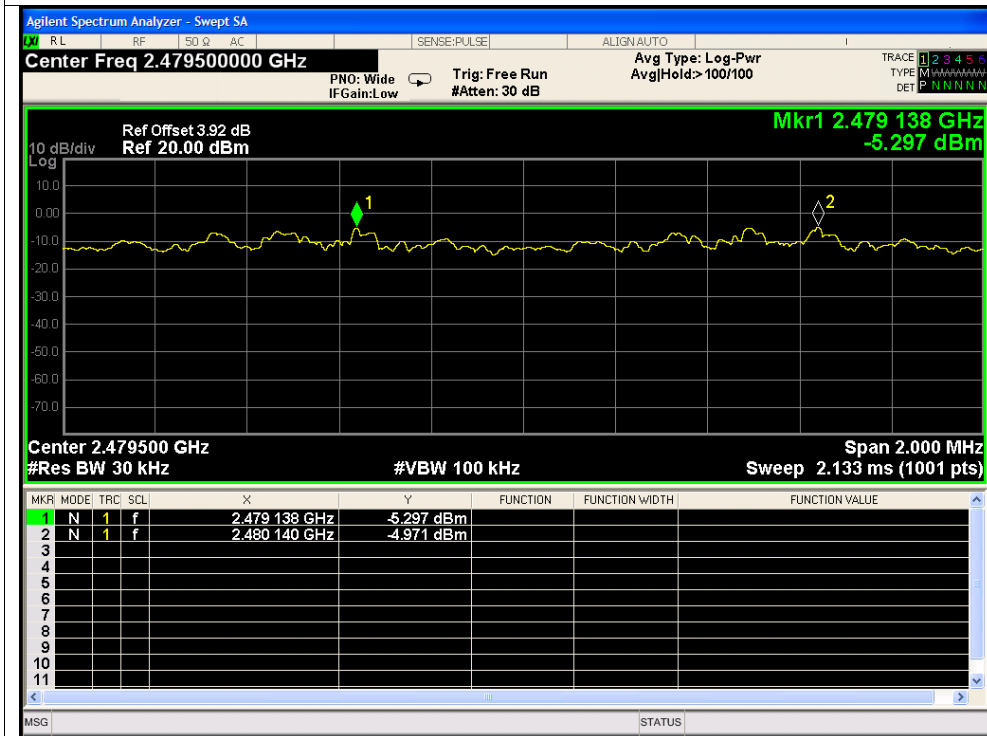
# CFS NVNT 2-DH5 2402MHz Ant1



# CFS NVNT 2-DH5 2441MHz Ant1



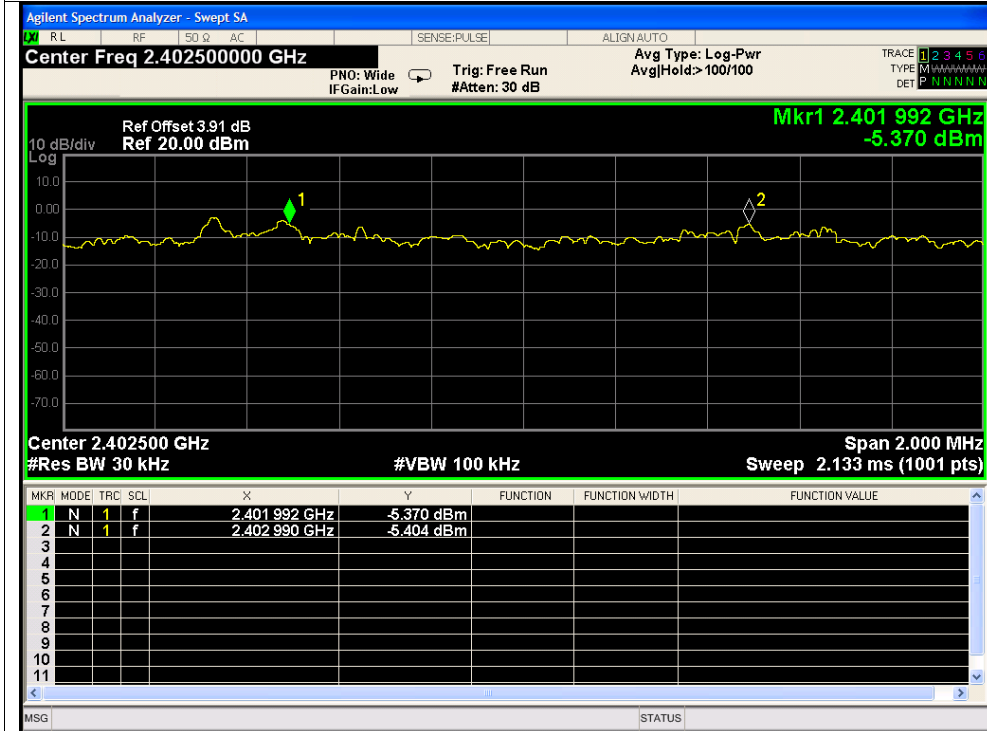
# CFS NVNT 2-DH5 2480MHz Ant1



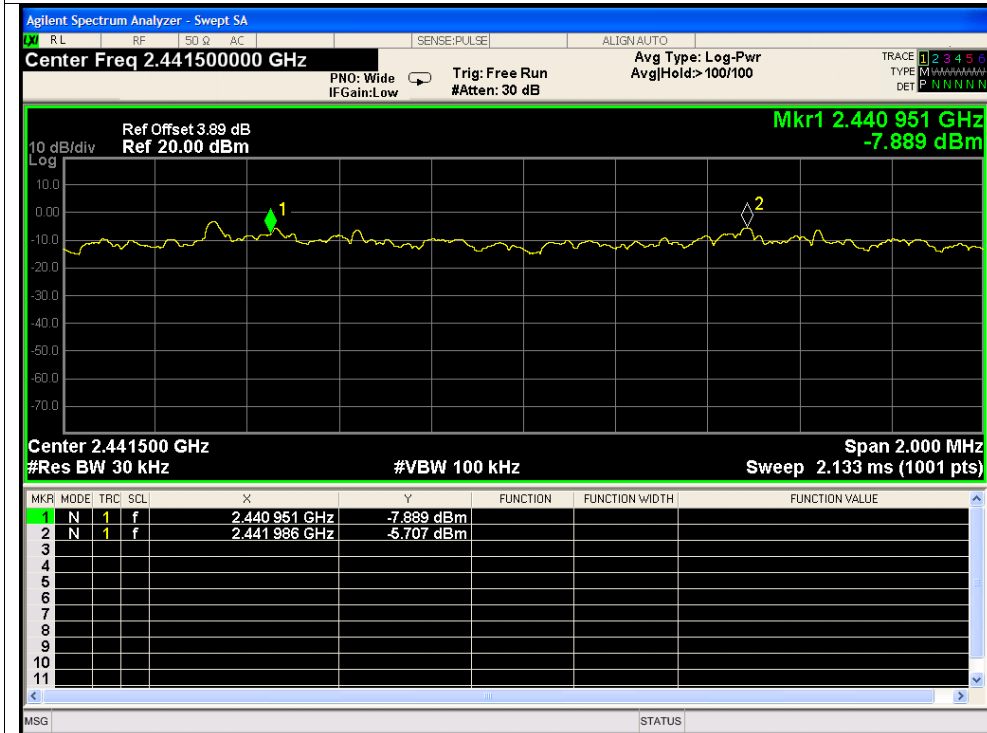


# Test Graphs

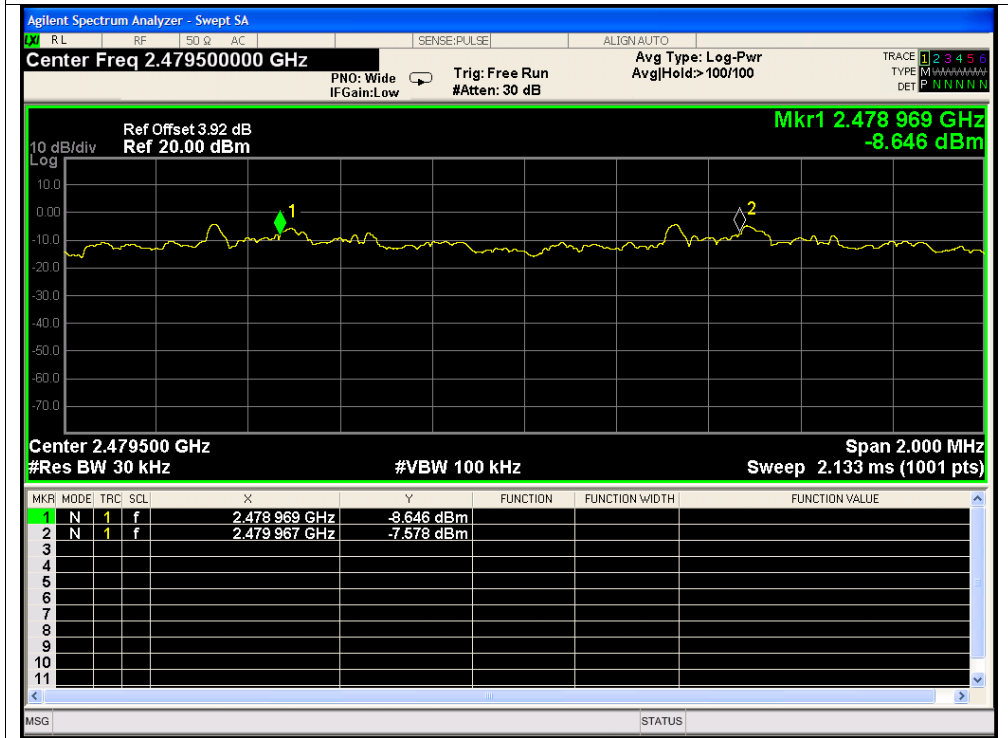
## CFS NVNT 3-DH5 2402MHz Ant1



## CFS NVNT 3-DH5 2441MHz Ant1



CFS NVNT 3-DH5 2480MHz Ant1

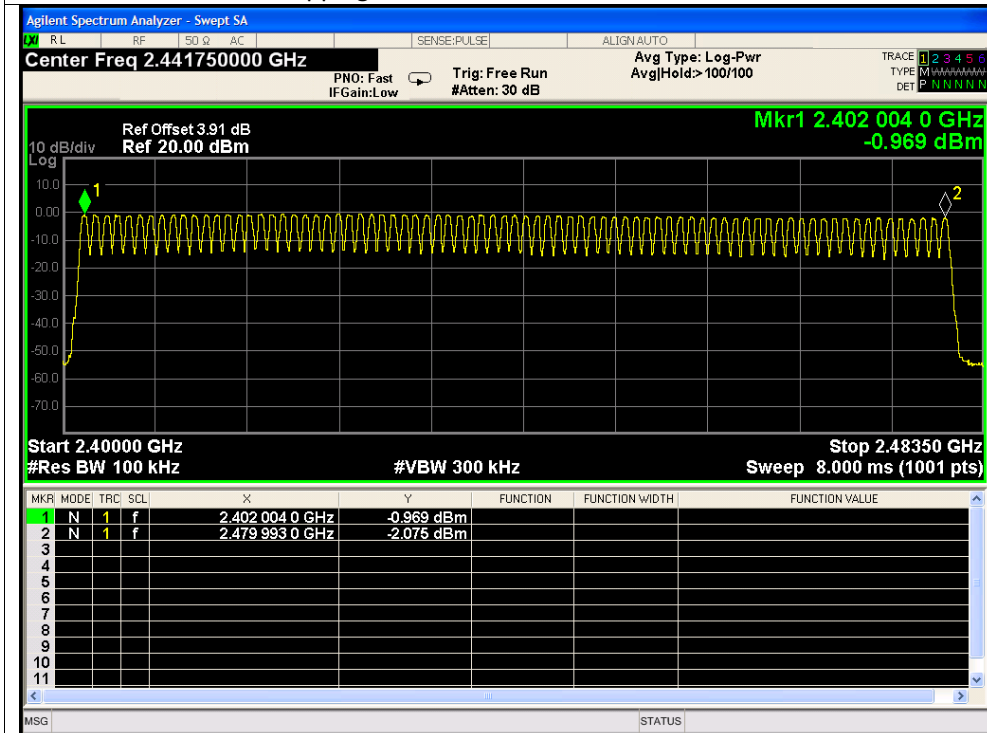


## 6. Number of Hopping Channel (Hopping)

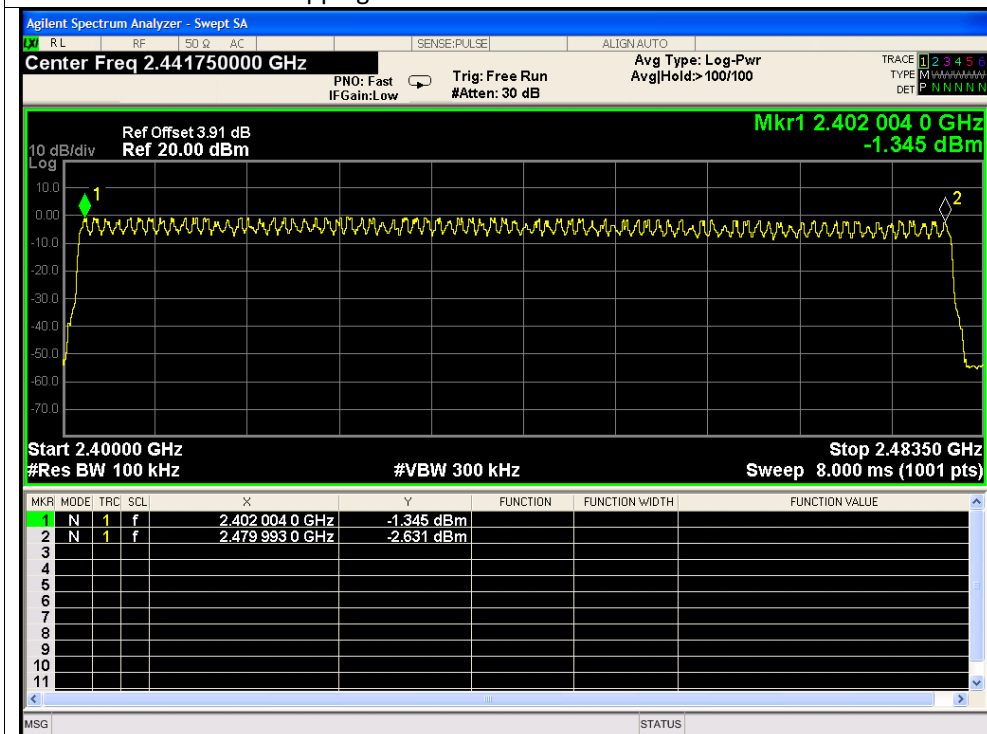
| Condition | Mode  | Antenna | Hopping Number | Limit | Verdict |
|-----------|-------|---------|----------------|-------|---------|
| NVNT      | 1-DH5 | Ant1    | 79             | 15    | Pass    |
| NVNT      | 2-DH5 | Ant1    | 79             | 15    | Pass    |
| NVNT      | 3-DH5 | Ant1    | 79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

## Test Graphs

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

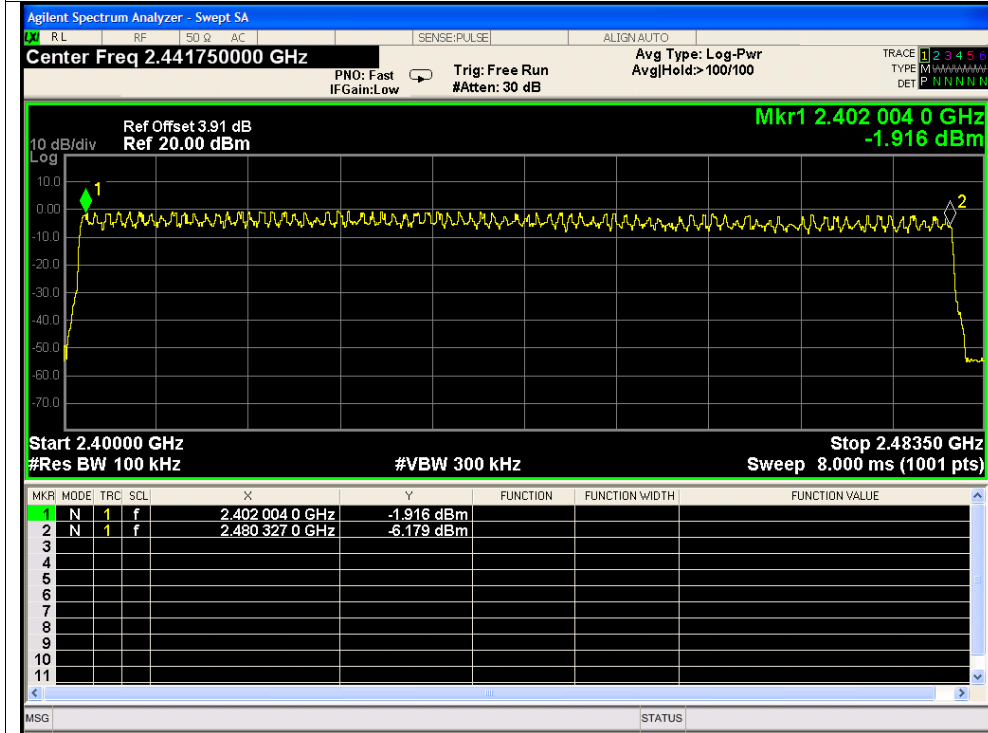


### Hopping No. NVNT 2-DH5 2402MHz Ant1



# Test Graphs

## Hopping No. NVNT 3-DH5 2402MHz Ant1



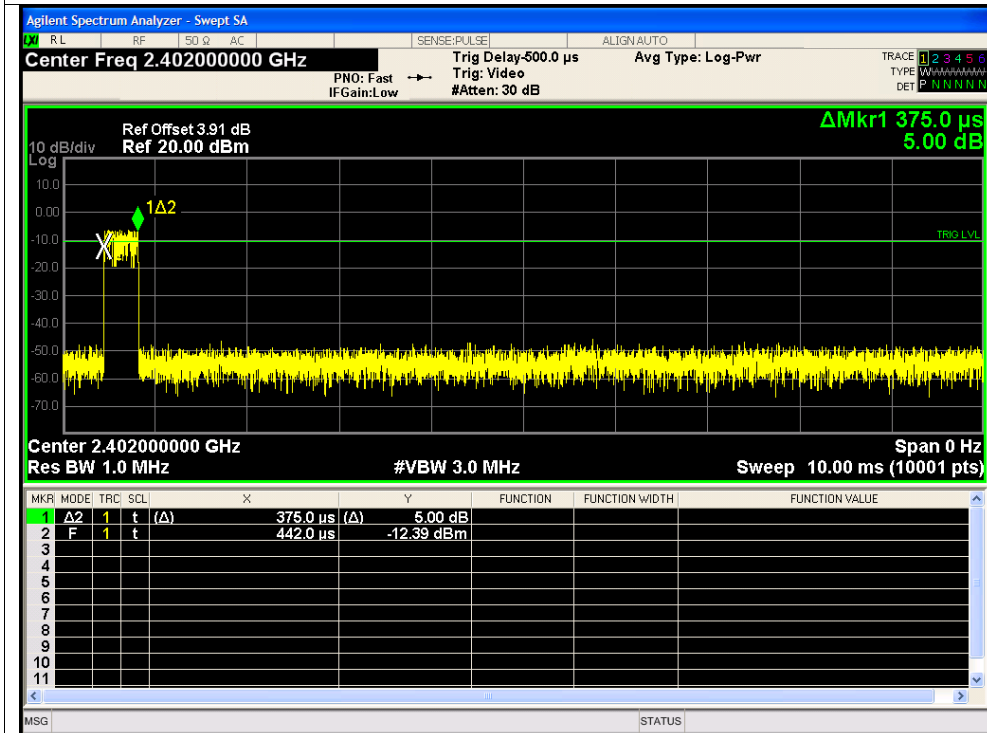
## 7. Dwell Time (Hopping)

All the modes have tested and recorded the worst mode (GFSK) in the report

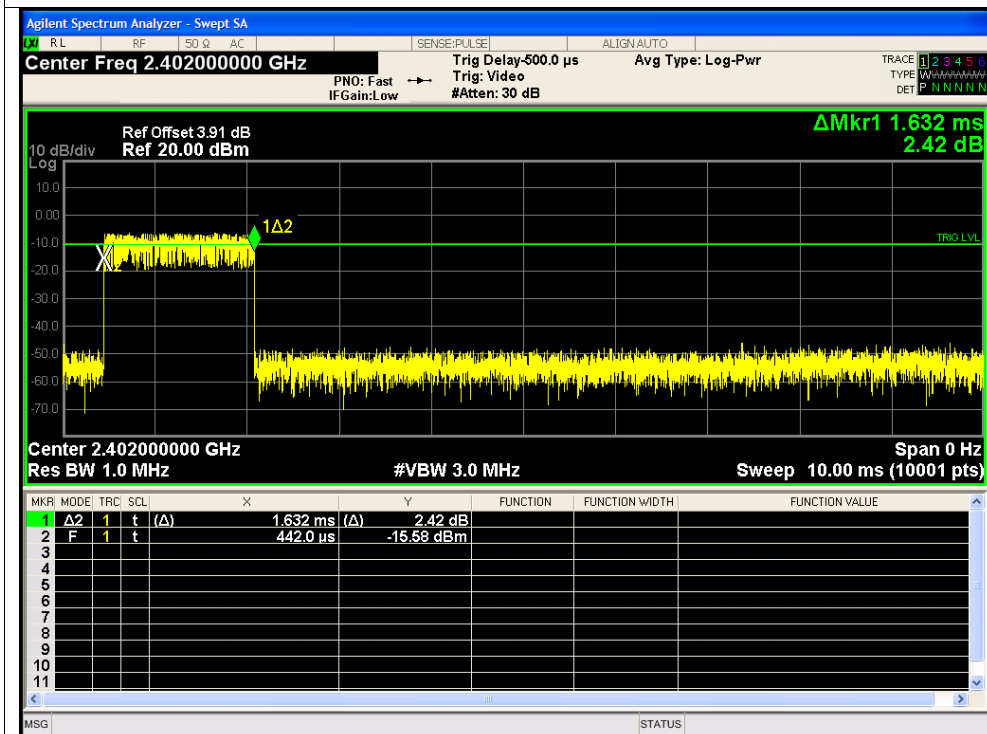
| Condition                                                                                                                  | Mode  | Frequency (MHz) | Antenna | Pulse Time (ms) | Dwell Time (ms) | Limit (ms) | Verdict |
|----------------------------------------------------------------------------------------------------------------------------|-------|-----------------|---------|-----------------|-----------------|------------|---------|
| NVNT                                                                                                                       | 1-DH1 | 2402            | Ant1    | 0.375           | 120.00          | <400       | Pass    |
| NVNT                                                                                                                       | 1-DH3 | 2402            | Ant1    | 1.632           | 261.12          | <400       | Pass    |
| NVNT                                                                                                                       | 1-DH5 | 2402            | Ant1    | 2.879           | 307.09          | <400       | Pass    |
| Note:<br>Dwell Time(DH1)=PW*(1600/2/79)*31.6<br>Dwell Time(DH3)=PW*(1600/4/79)*31.6<br>Dwell Time(DH5)=PW*(1600/6/79)*31.6 |       |                 |         |                 |                 |            |         |

## Test Graphs

### Dwell NVNT 1-DH1 2402MHz Ant1 One Burst



### Dwell NVNT 1-DH3 2402MHz Ant1 Accumulated



# Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

