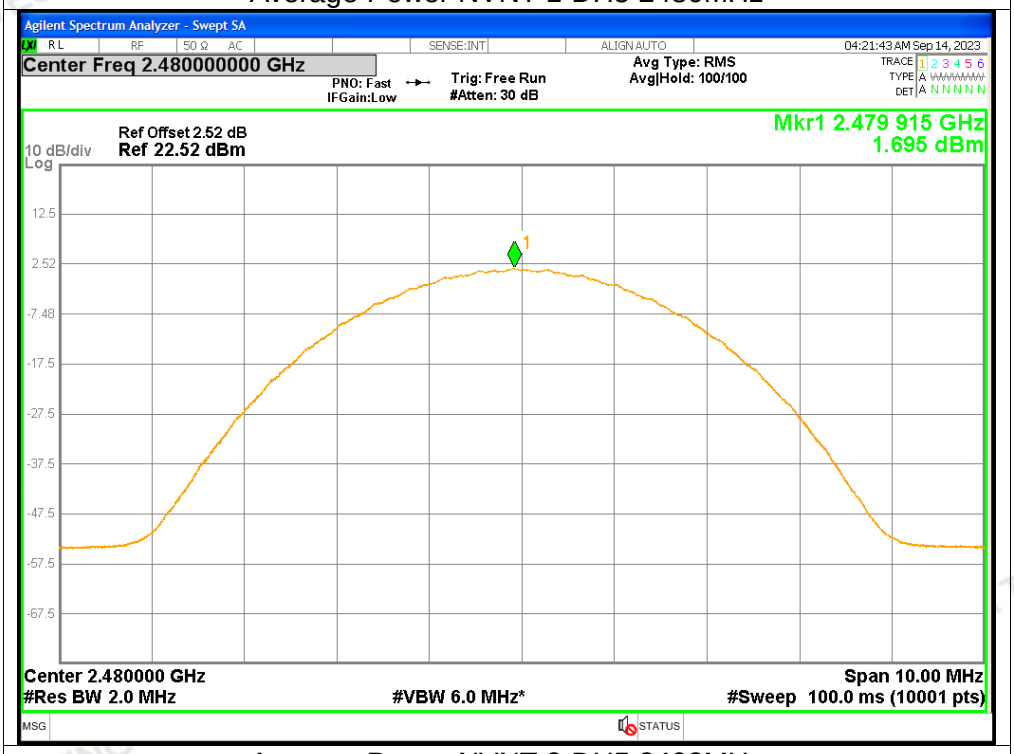
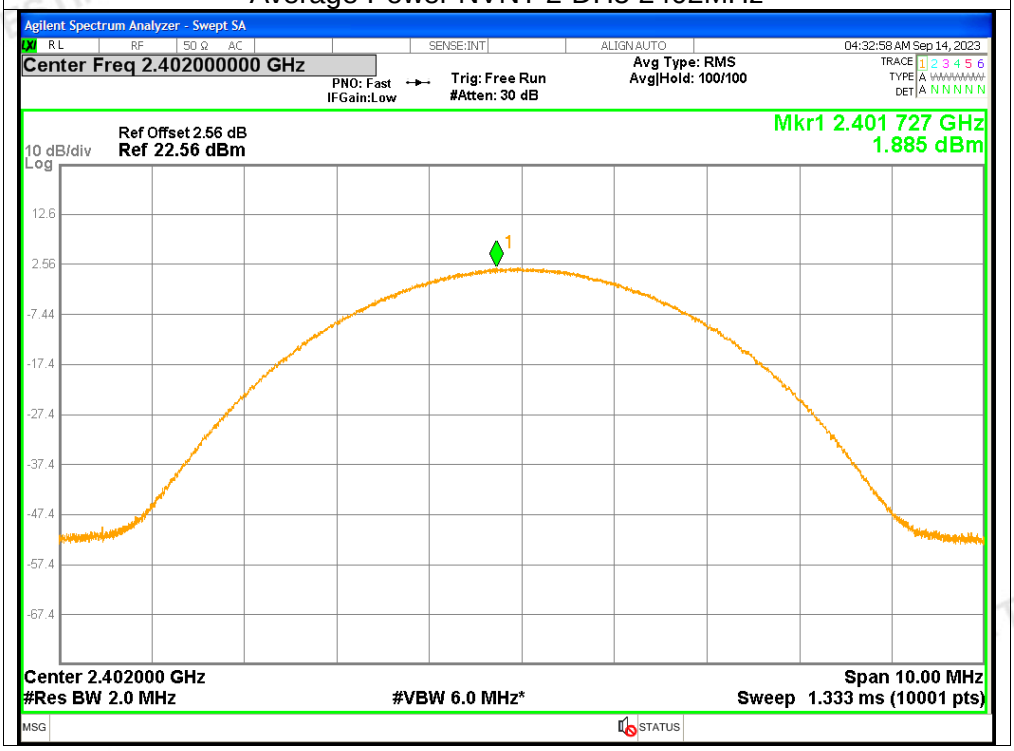
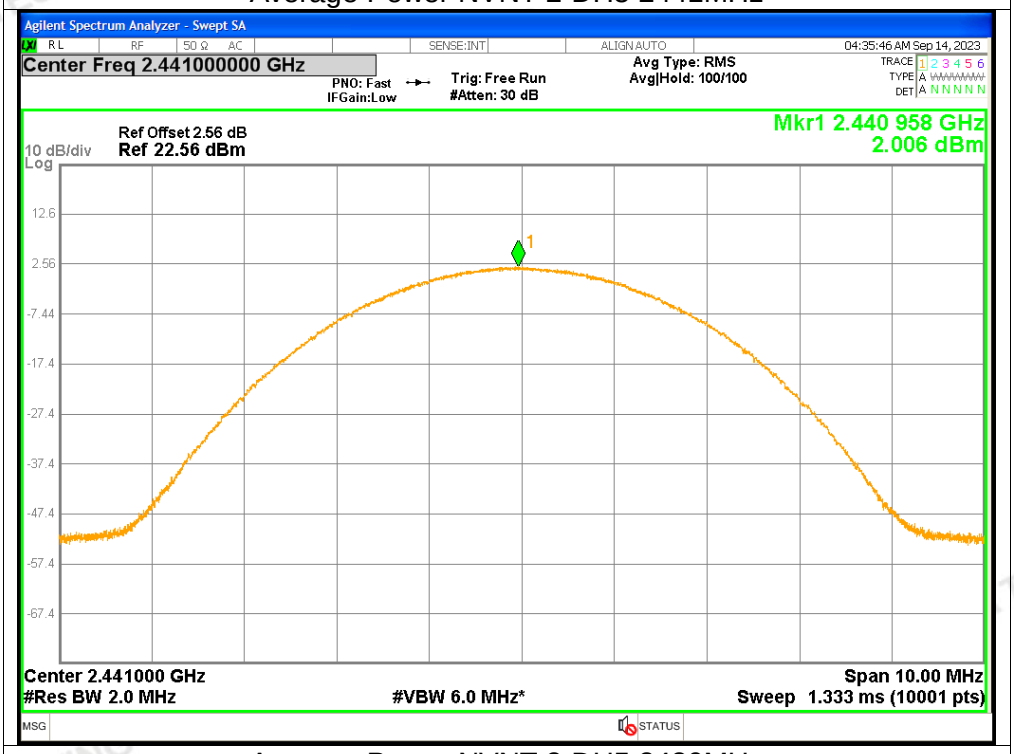
Average Power NVNT 1-DH5 2480MHz



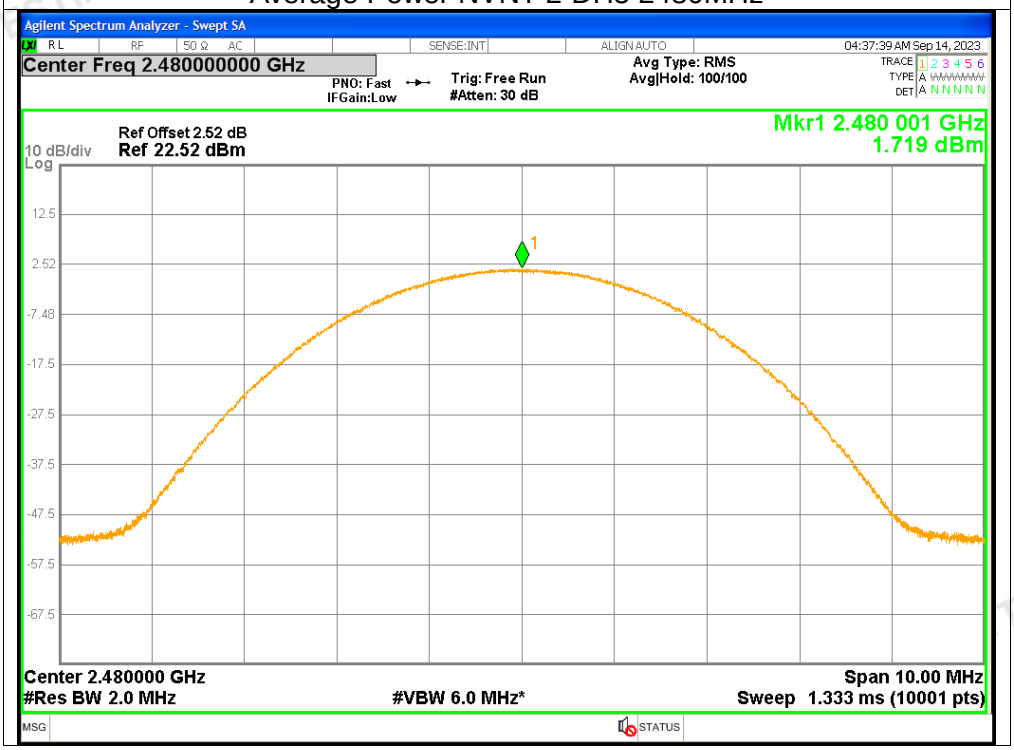

Average Power NVNT 2-DH5 2402MHz



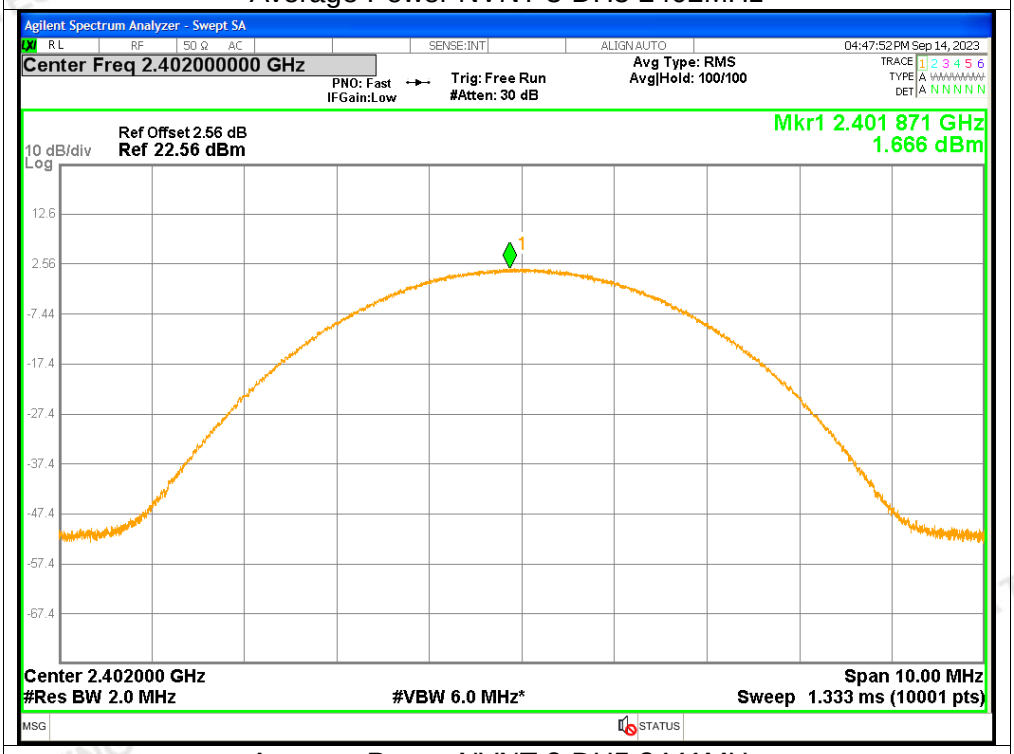
Average Power NVNT 2-DH5 2441MHz



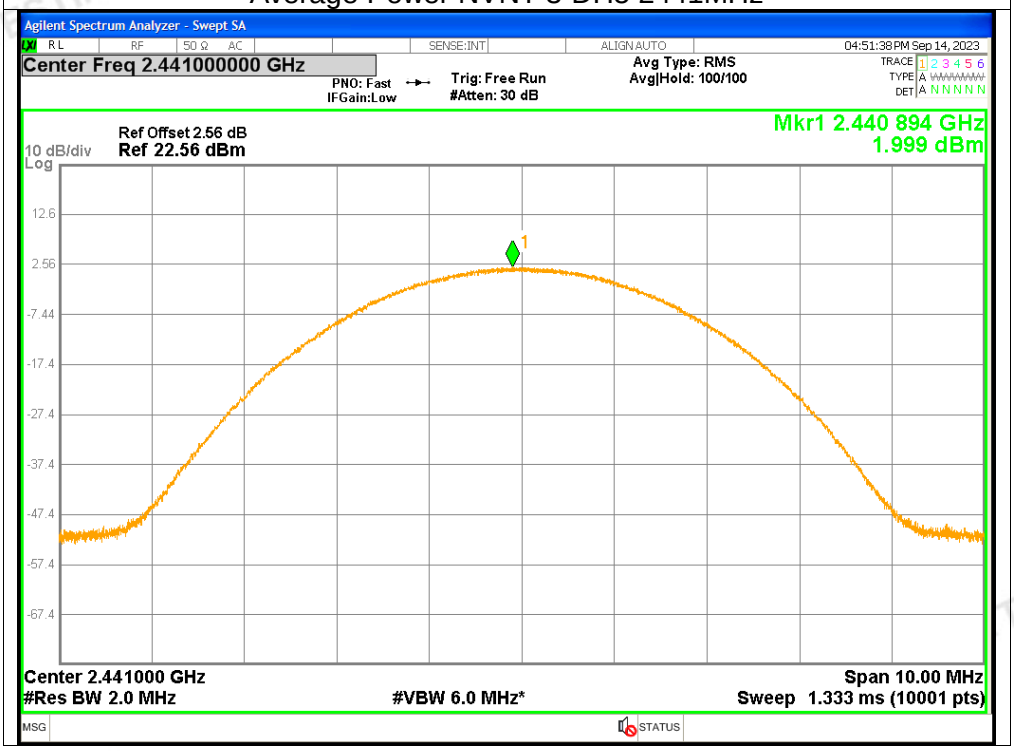

Average Power NVNT 2-DH5 2480MHz



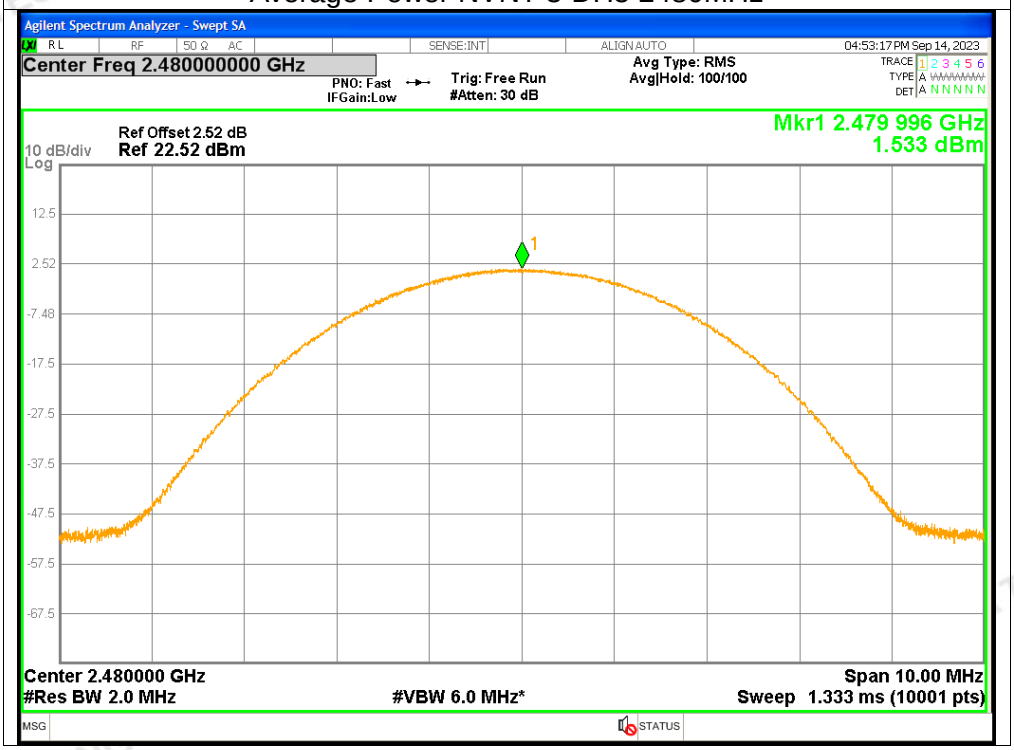
Average Power NVNT 3-DH5 2402MHz




Average Power NVNT 3-DH5 2441MHz



Average Power NVNT 3-DH5 2480MHz

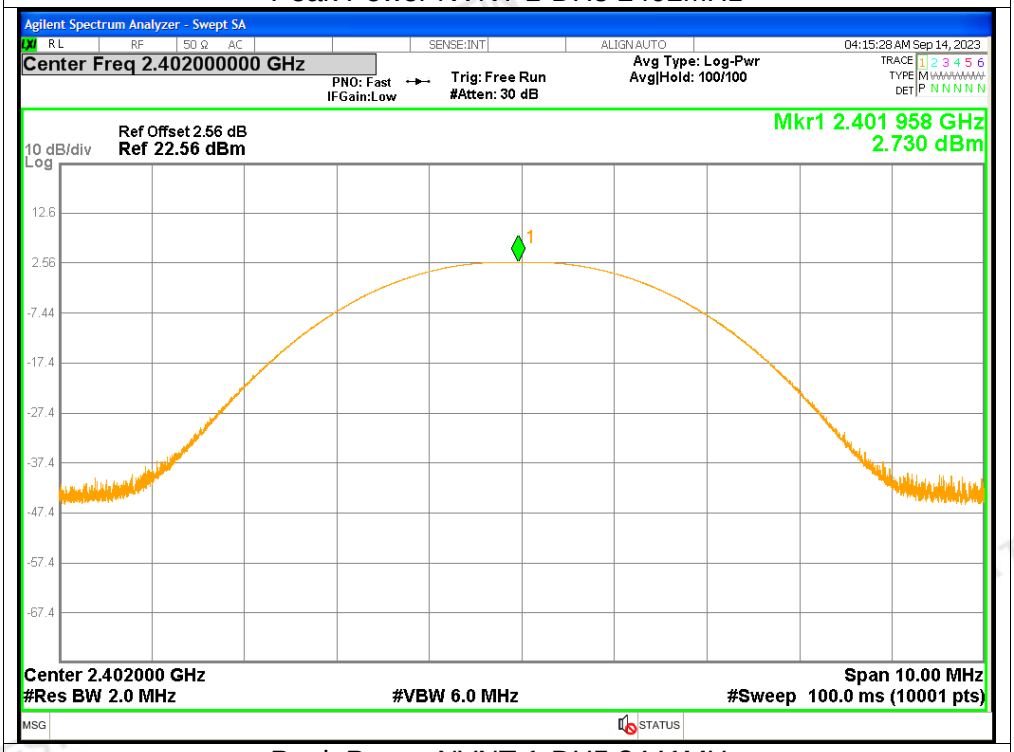


# 3. Maximum Peak Conducted Output Power

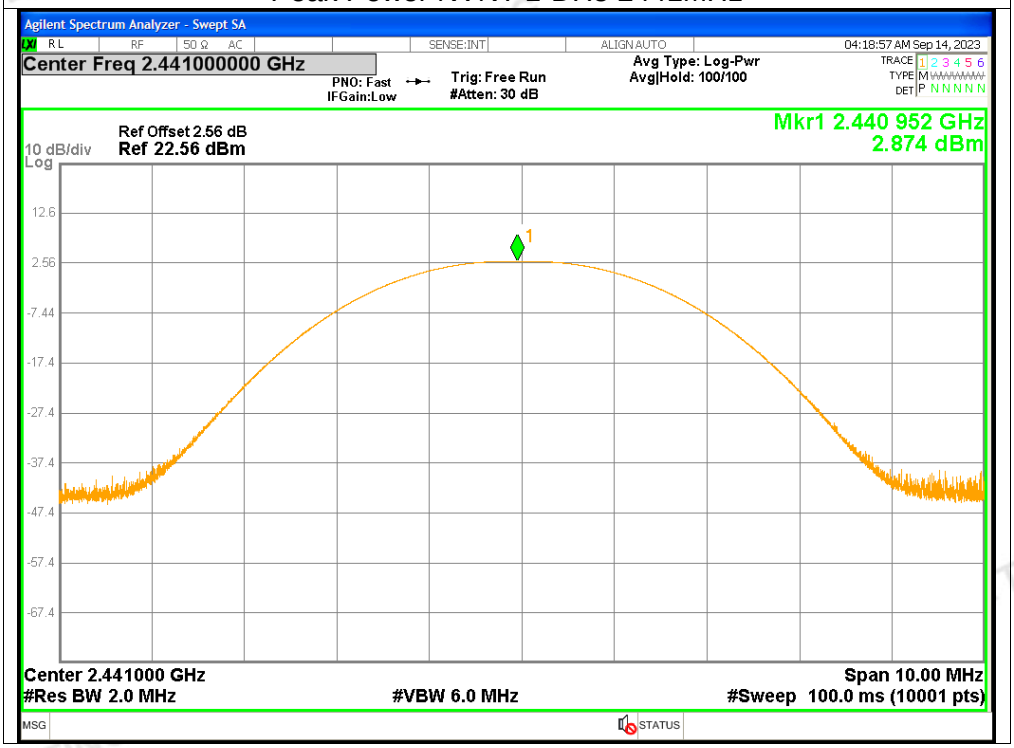
| Condition | Mode | Frequency (MHz) | Conducted Power (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|
| NVNT | 1-DH5 | 2402 | 2.73 | <=21 | Pass |
| NVNT | 1-DH5 | 2441 | 2.87 | <=21 | Pass |
| NVNT | 1-DH5 | 2480 | 2.56 | <=21 | Pass |
| NVNT | 2-DH5 | 2402 | 4.93 | <=21 | Pass |
| NVNT | 2-DH5 | 2441 | 4.9 | <=21 | Pass |
| NVNT | 2-DH5 | 2480 | 4.58 | <=21 | Pass |
| NVNT | 3-DH5 | 2402 | 4.97 | <=21 | Pass |
| NVNT | 3-DH5 | 2441 | 5.07 | <=21 | Pass |
| NVNT | 3-DH5 | 2480 | 4.76 | <=21 | Pass |

## Test Graphs

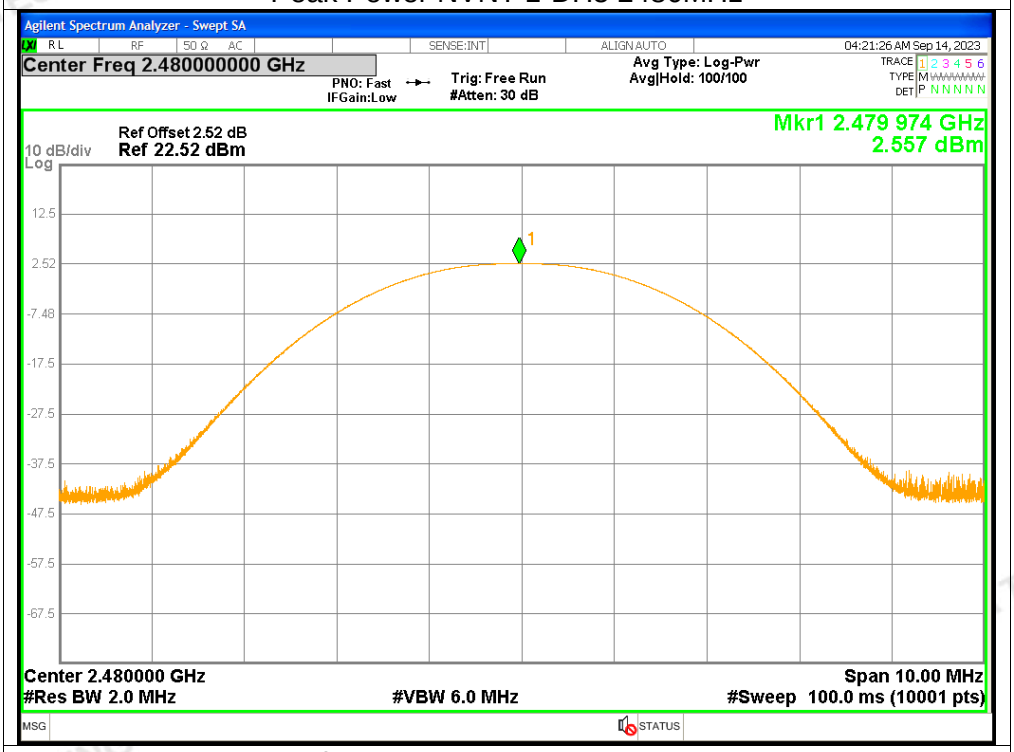
### Peak Power NVNT 1-DH5 2402MHz



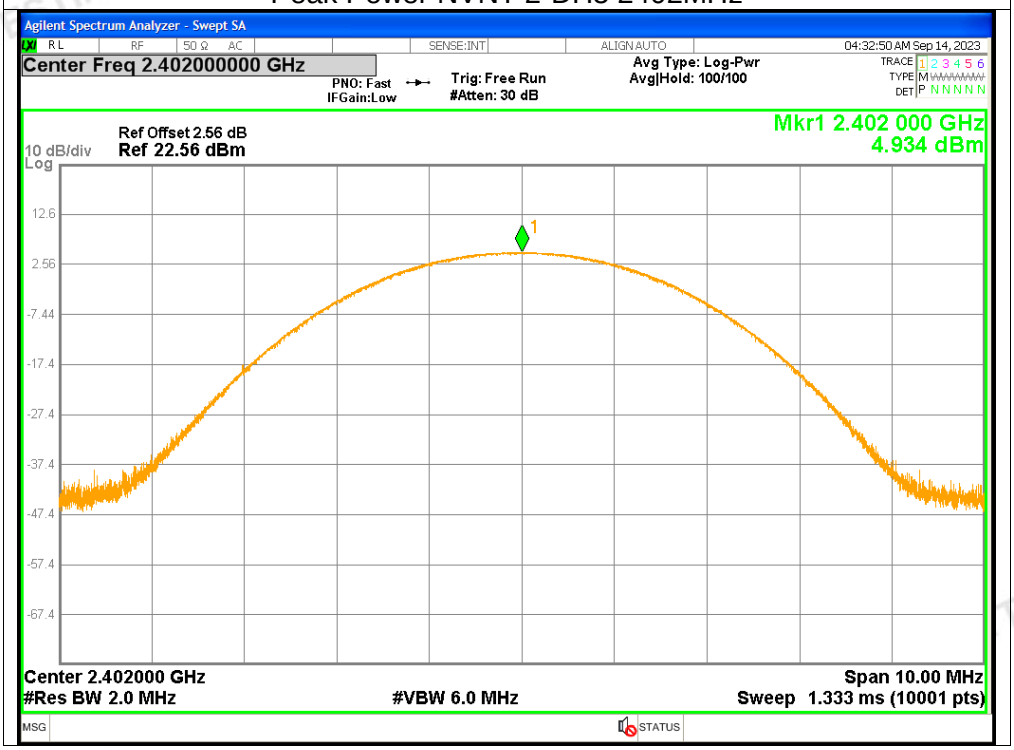

### Peak Power NVNT 1-DH5 2441MHz



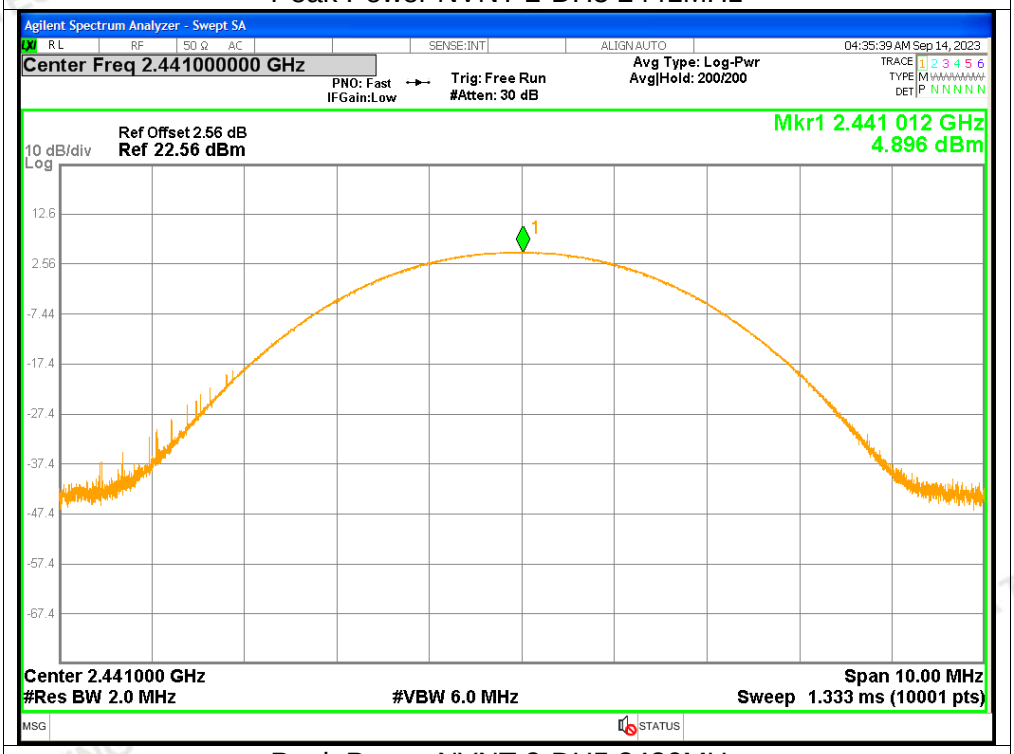
Peak Power NVNT 1-DH5 2480MHz



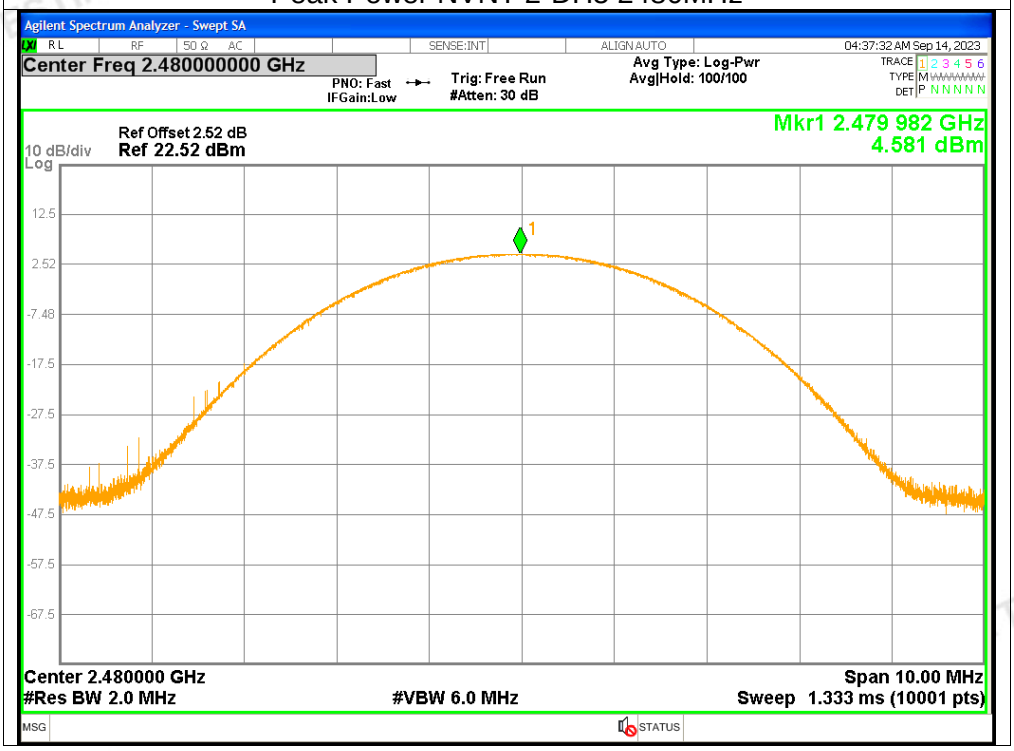

Peak Power NVNT 2-DH5 2402MHz



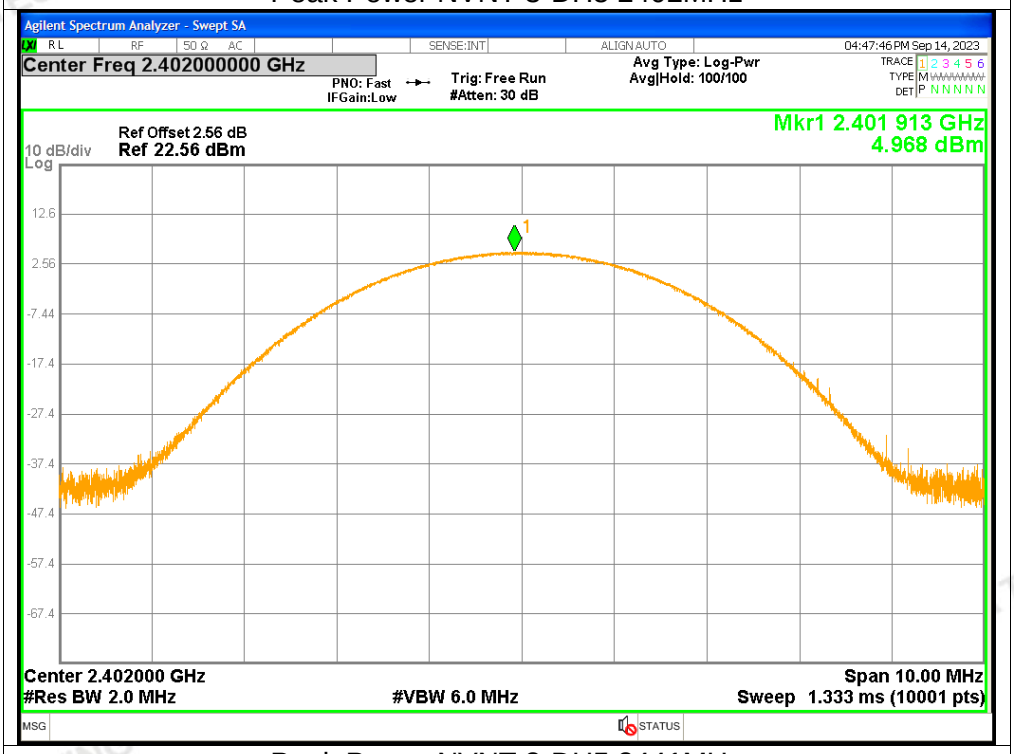
Peak Power NVNT 2-DH5 2441MHz



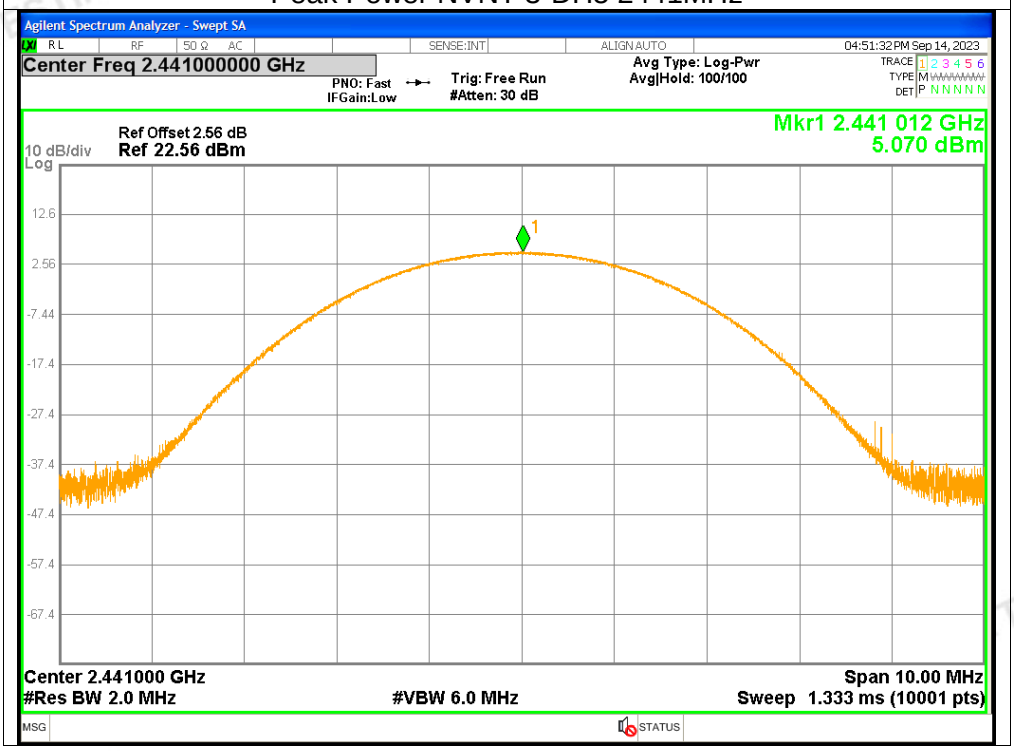

Peak Power NVNT 2-DH5 2480MHz



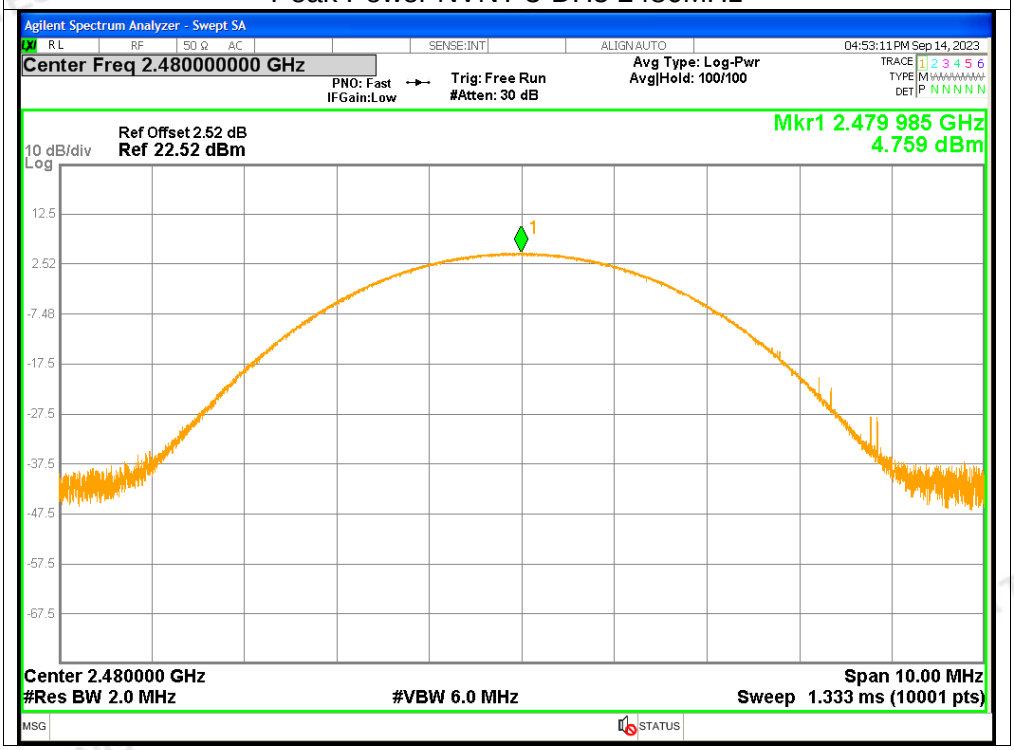
Peak Power NVNT 3-DH5 2402MHz




Peak Power NVNT 3-DH5 2441MHz



Peak Power NVNT 3-DH5 2480MHz

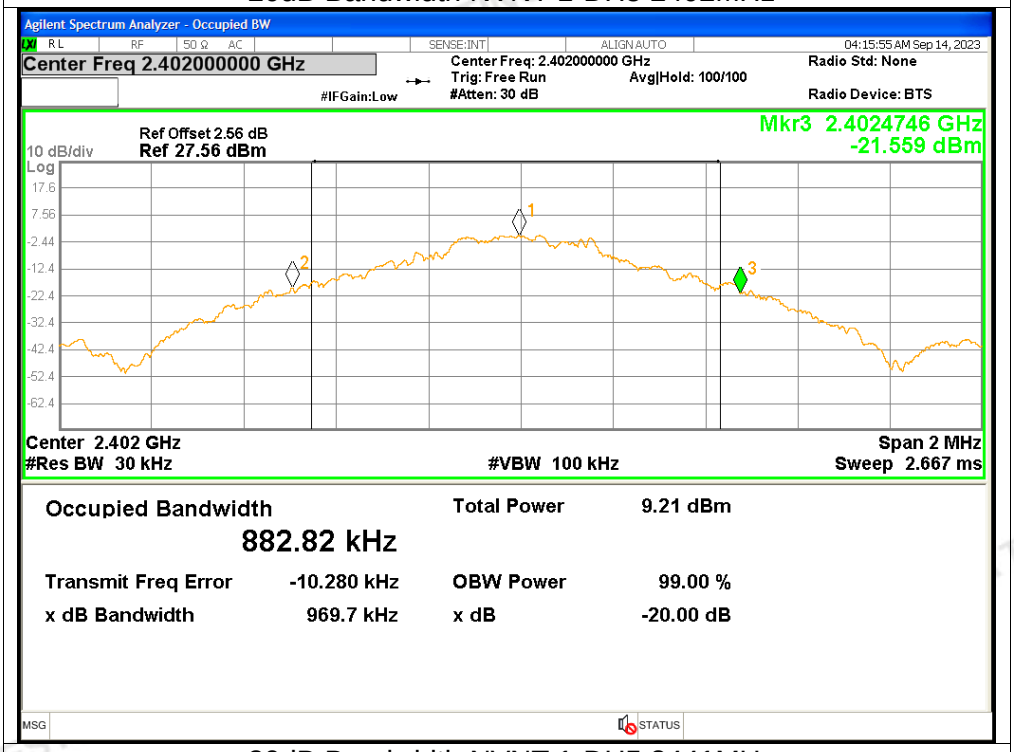


# 4. -20dB Bandwidth

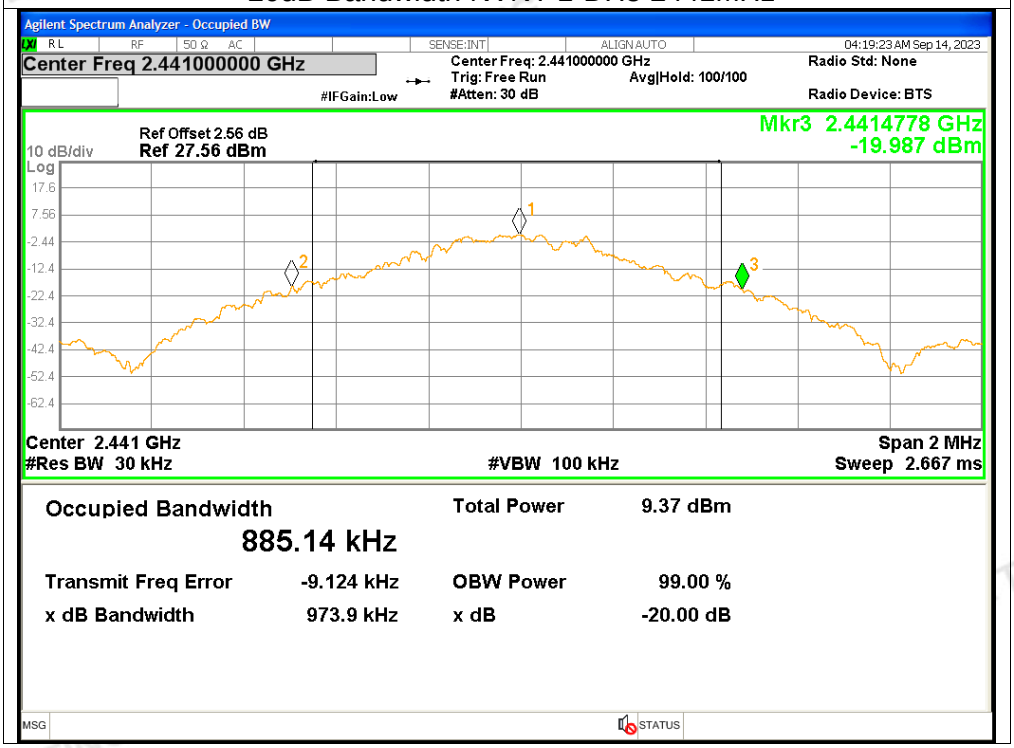
| Condition | Mode | Frequency (MHz) | -20 dB Bandwidth (MHz) | Verdict |
|---|---|---|---|---|
| NVNT | 1-DH5 | 2402 | 0.9697 | Pass |
| NVNT | 1-DH5 | 2441 | 0.9739 | Pass |
| NVNT | 1-DH5 | 2480 | 0.9702 | Pass |
| NVNT | 2-DH5 | 2402 | 1.5162 | Pass |
| NVNT | 2-DH5 | 2441 | 1.5157 | Pass |
| NVNT | 2-DH5 | 2480 | 1.516 | Pass |
| NVNT | 3-DH5 | 2402 | 1.4863 | Pass |
| NVNT | 3-DH5 | 2441 | 1.4835 | Pass |
| NVNT | 3-DH5 | 2480 | 1.4898 | Pass |

Test Graphs

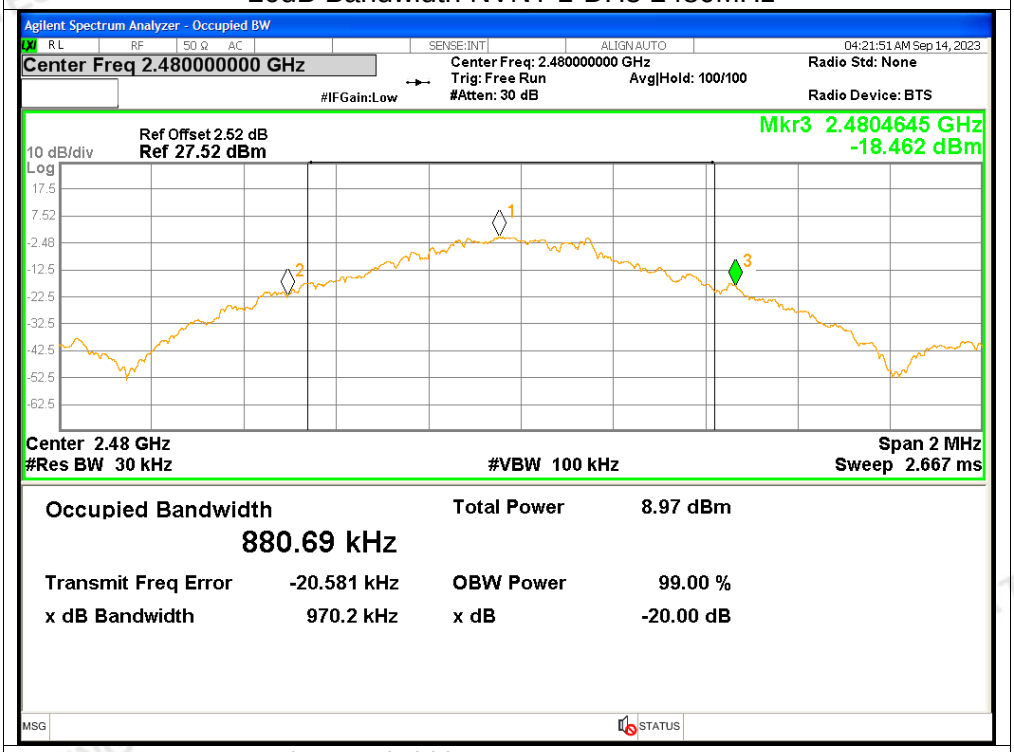
-20dB Bandwidth NVNT 1-DH5 2402MHz



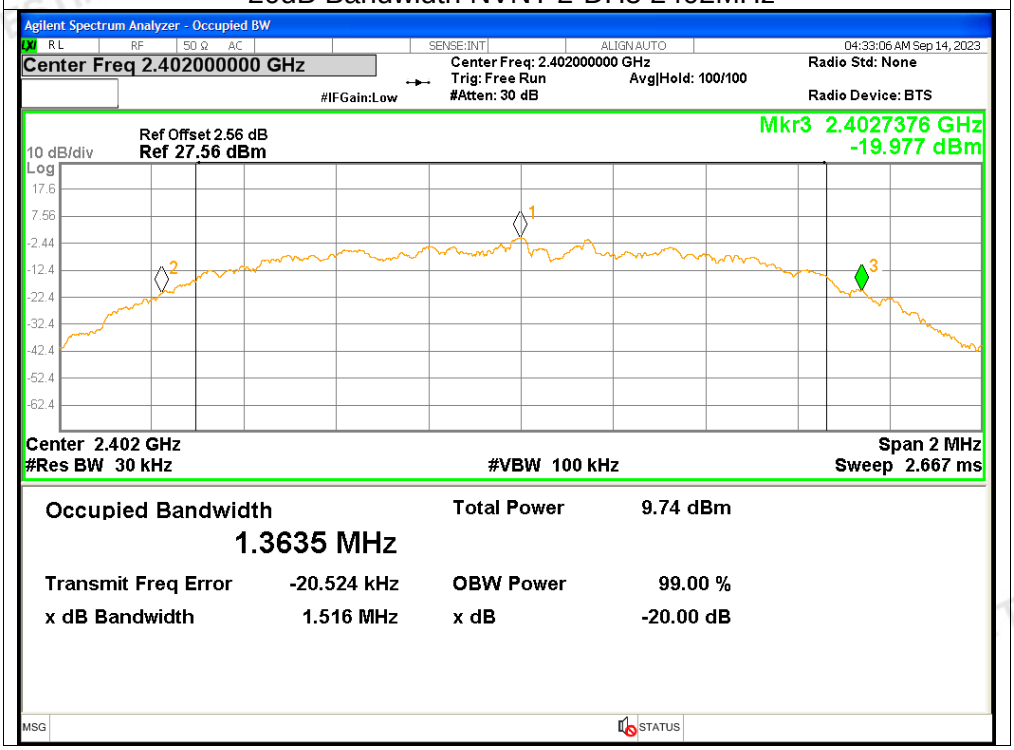

-20dB Bandwidth NVNT 1-DH5 2441MHz



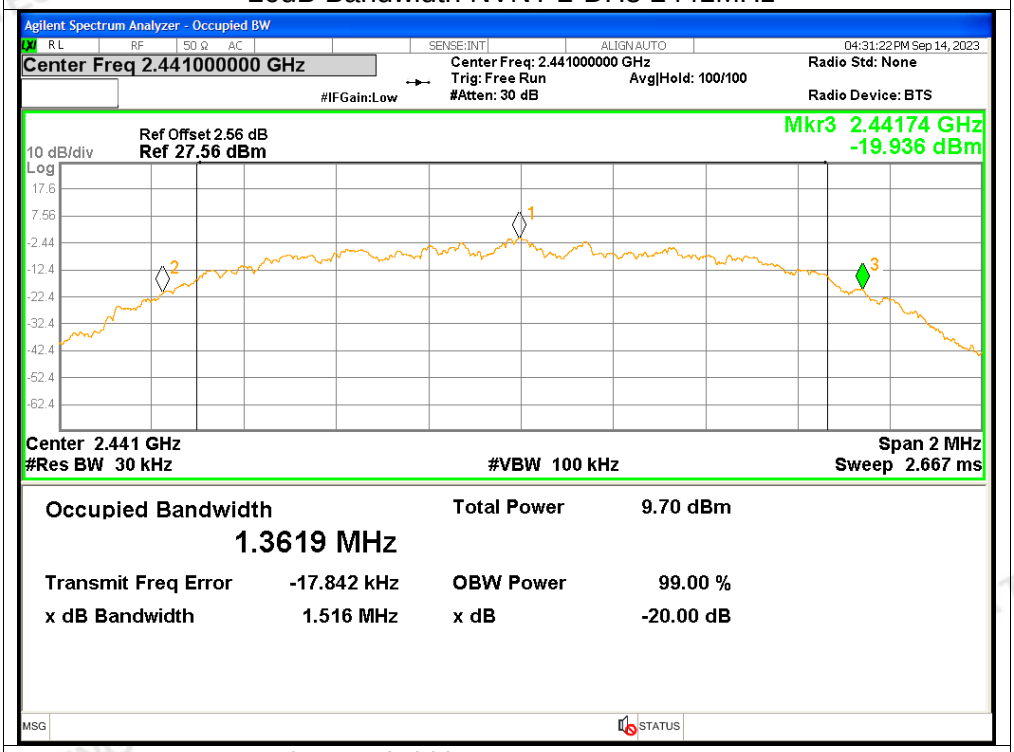
-20dB Bandwidth NVNT 1-DH5 2480MHz



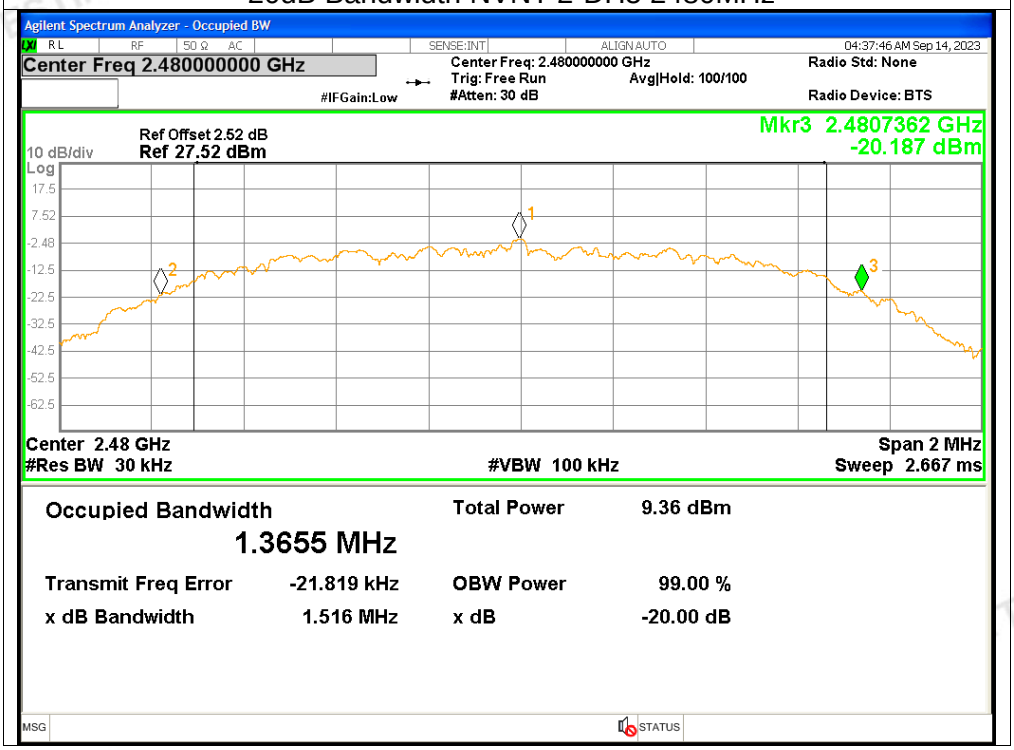

-20dB Bandwidth NVNT 2-DH5 2402MHz



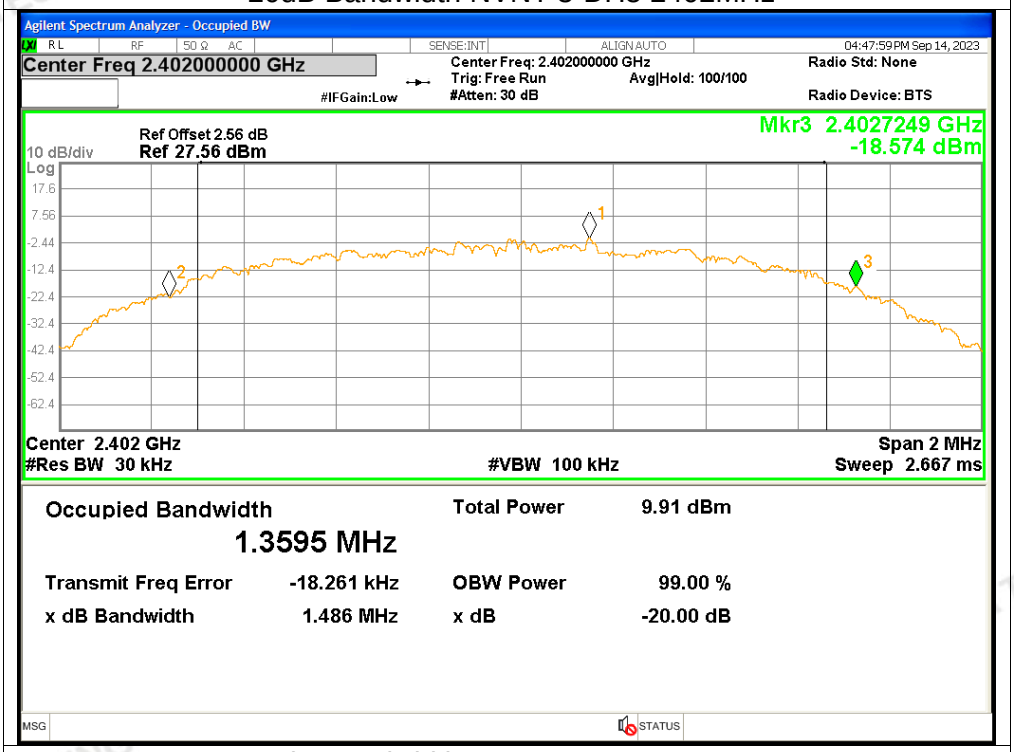
-20dB Bandwidth NVNT 2-DH5 2441MHz



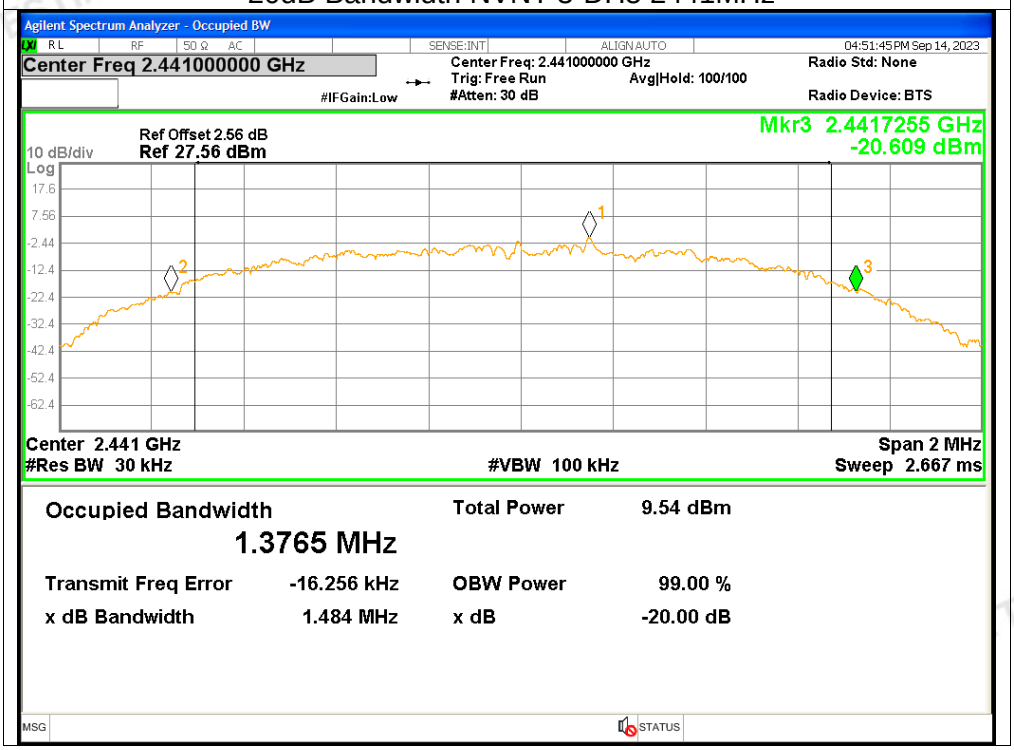

-20dB Bandwidth NVNT 2-DH5 2480MHz



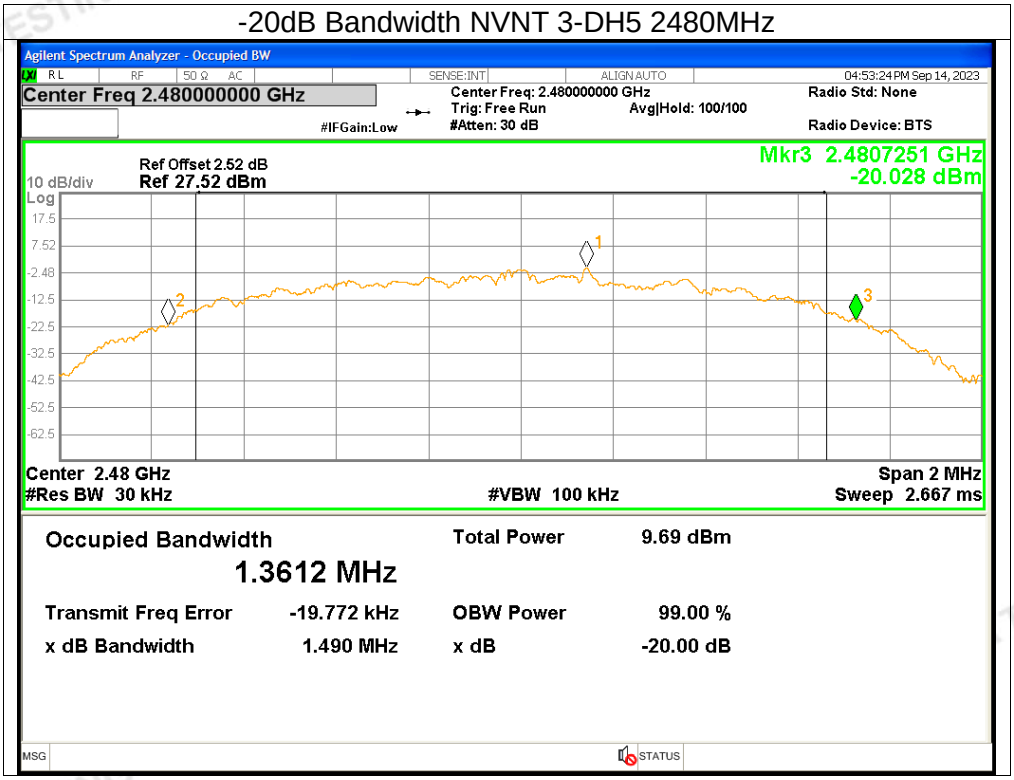
-20dB Bandwidth NVNT 3-DH5 2402MHz




-20dB Bandwidth NVNT 3-DH5 2441MHz



-20dB Bandwidth NVNT 3-DH5 2480MHz

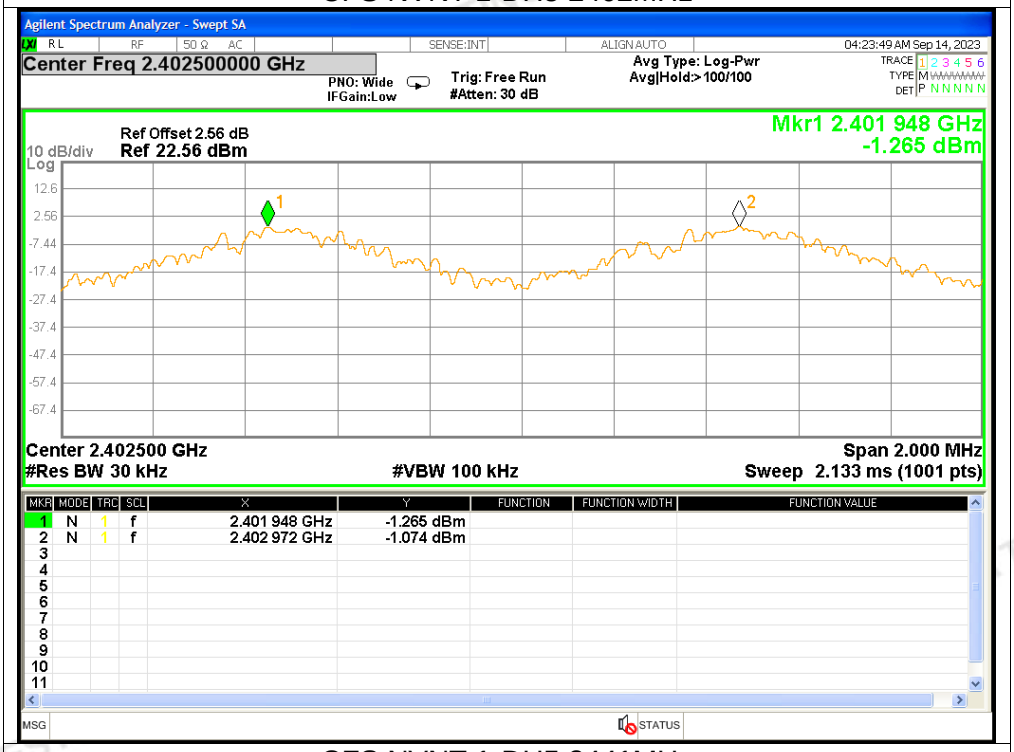


# 5. Carrier Frequencies Separation

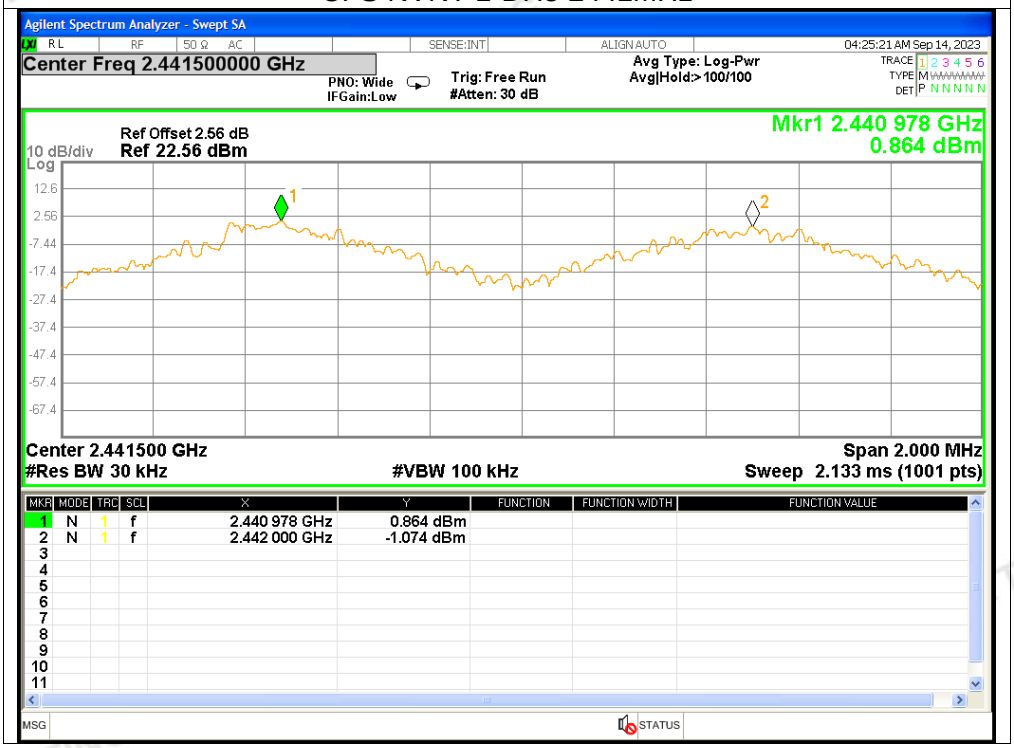
| Condition | Mode | Hopping Freq1 (MHz) | Hopping Freq2 (MHz) | HFS (MHz) | Limit (MHz) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | 1-DH5 | 2401.948 | 2402.972 | 1.024 | >=0.646 | Pass |
| NVNT | 1-DH5 | 2440.978 | 2442 | 1.022 | >=0.649 | Pass |
| NVNT | 1-DH5 | 2479.044 | 2479.954 | 0.91 | >=0.647 | Pass |
| NVNT | 2-DH5 | 2401.98 | 2403.148 | 1.168 | >=1.011 | Pass |
| NVNT | 2-DH5 | 2440.972 | 2441.996 | 1.024 | >=1.01 | Pass |
| NVNT | 2-DH5 | 2478.856 | 2479.964 | 1.108 | >=1.011 | Pass |
| NVNT | 3-DH5 | 2401.99 | 2402.994 | 1.004 | >=0.991 | Pass |
| NVNT | 3-DH5 | 2440.974 | 2442.112 | 1.138 | >=0.989 | Pass |
| NVNT | 3-DH5 | 2478.996 | 2479.992 | 0.996 | >=0.993 | Pass |

Test Graphs

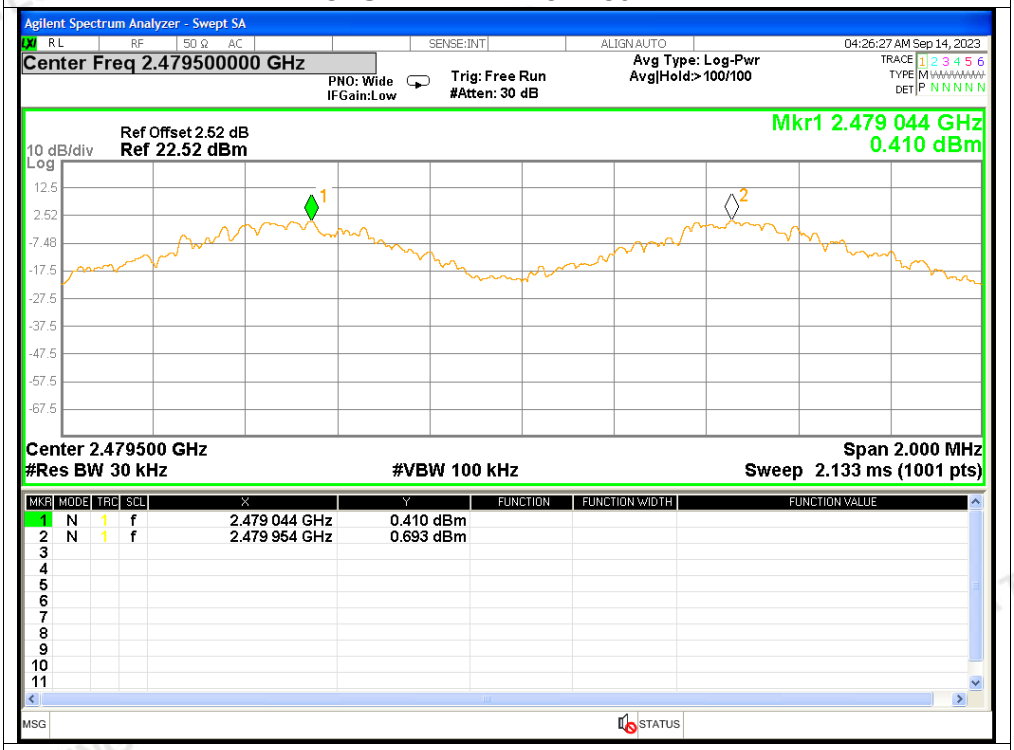
CFS NVNT 1-DH5 2402MHz



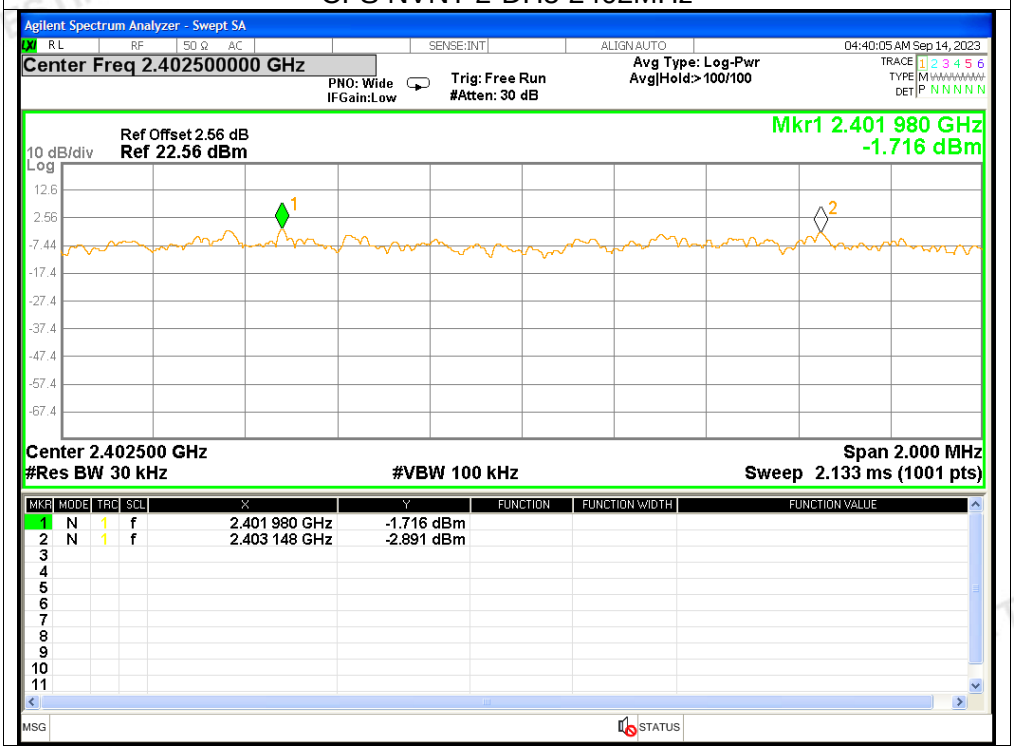

CFS NVNT 1-DH5 2441MHz



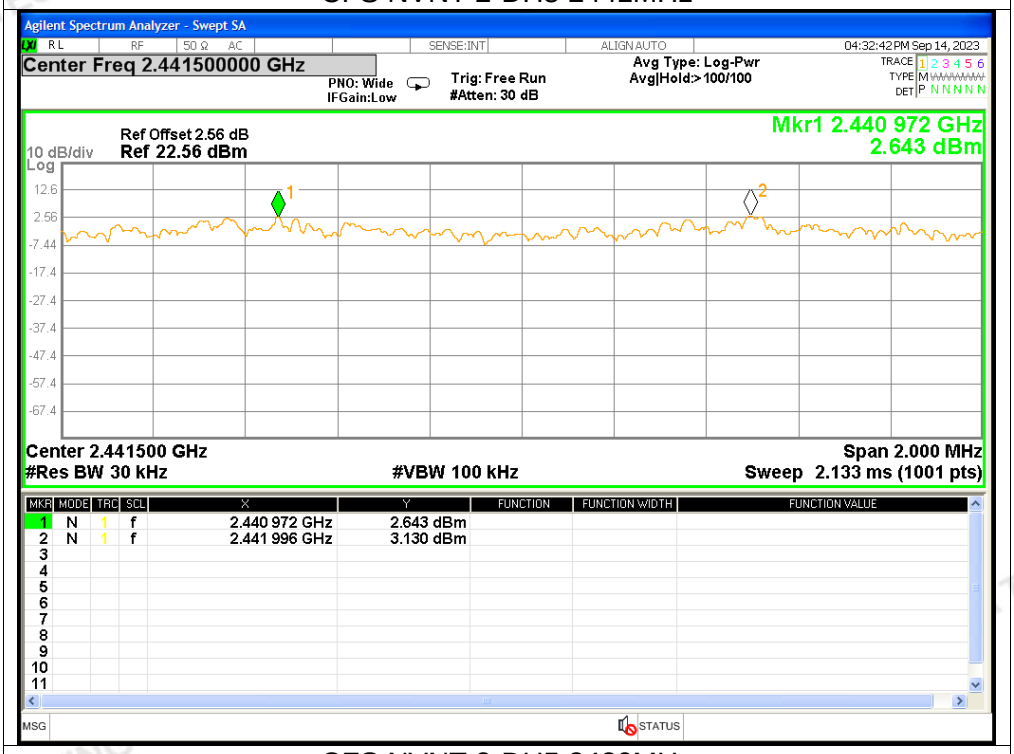
CFS NVNT 1-DH5 2480MHz



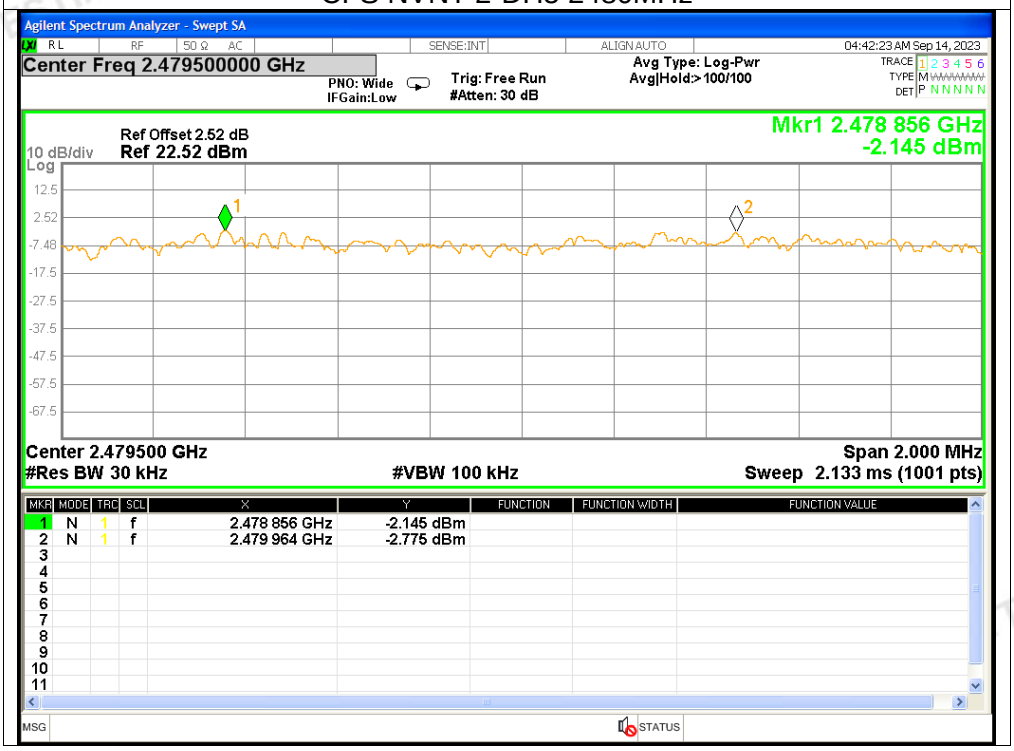

CFS NVNT 2-DH5 2402MHz



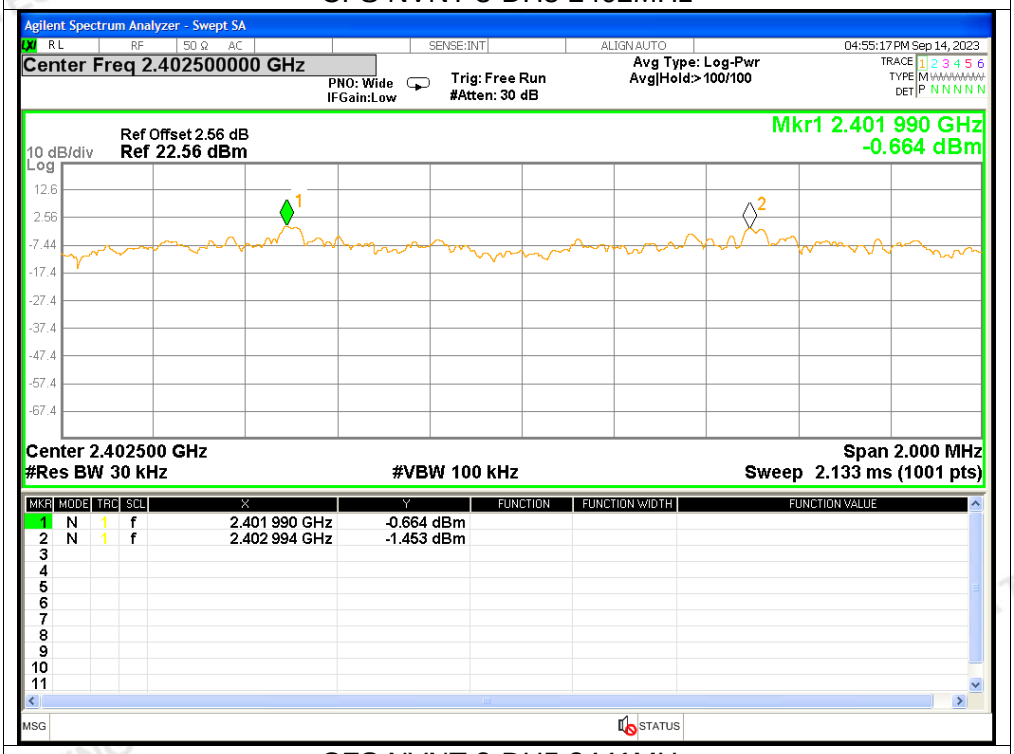
CFS NVNT 2-DH5 2441MHz



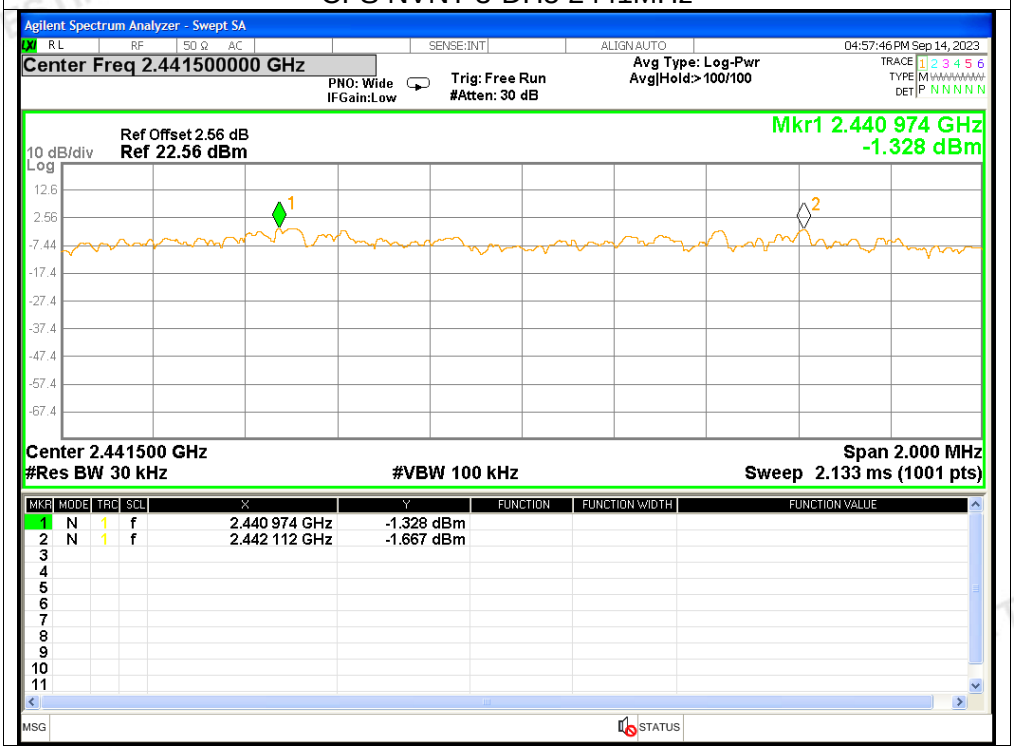

CFS NVNT 2-DH5 2480MHz



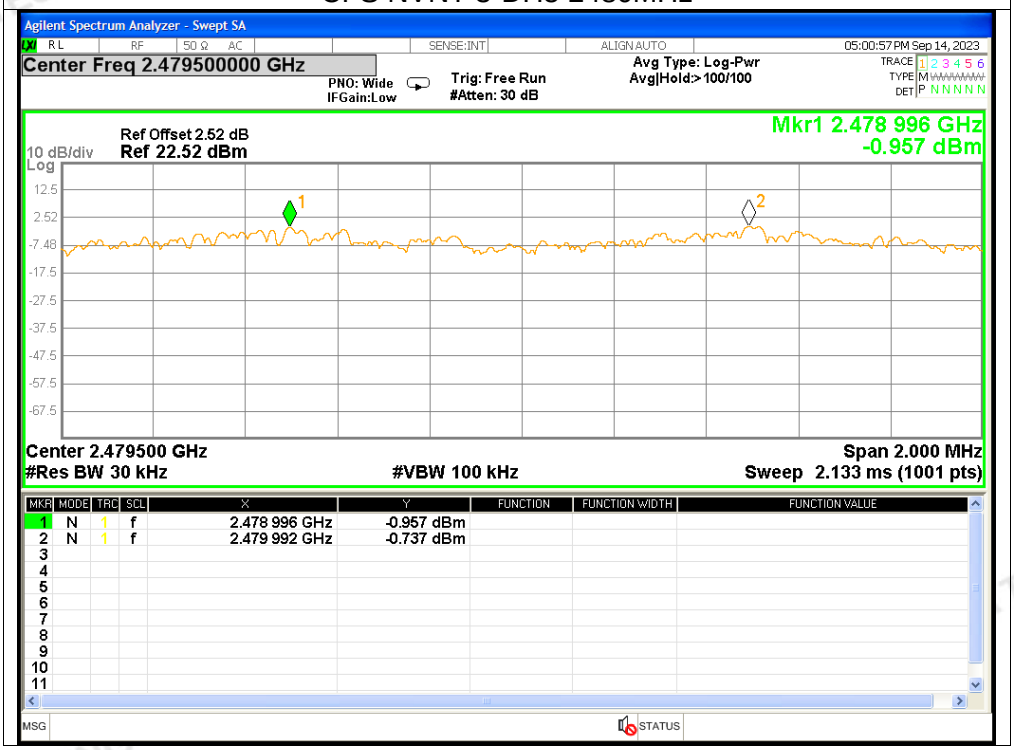
CFS NVNT 3-DH5 2402MHz




CFS NVNT 3-DH5 2441MHz



CFS NVNT 3-DH5 2480MHz

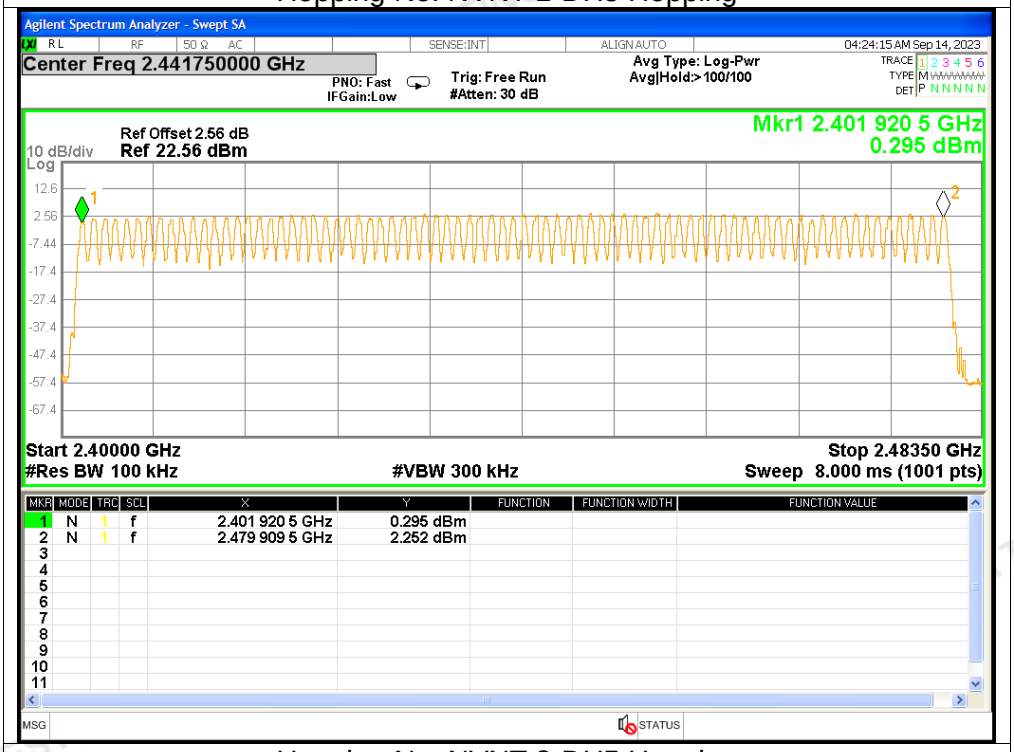


# 6. Number of Hopping Channel

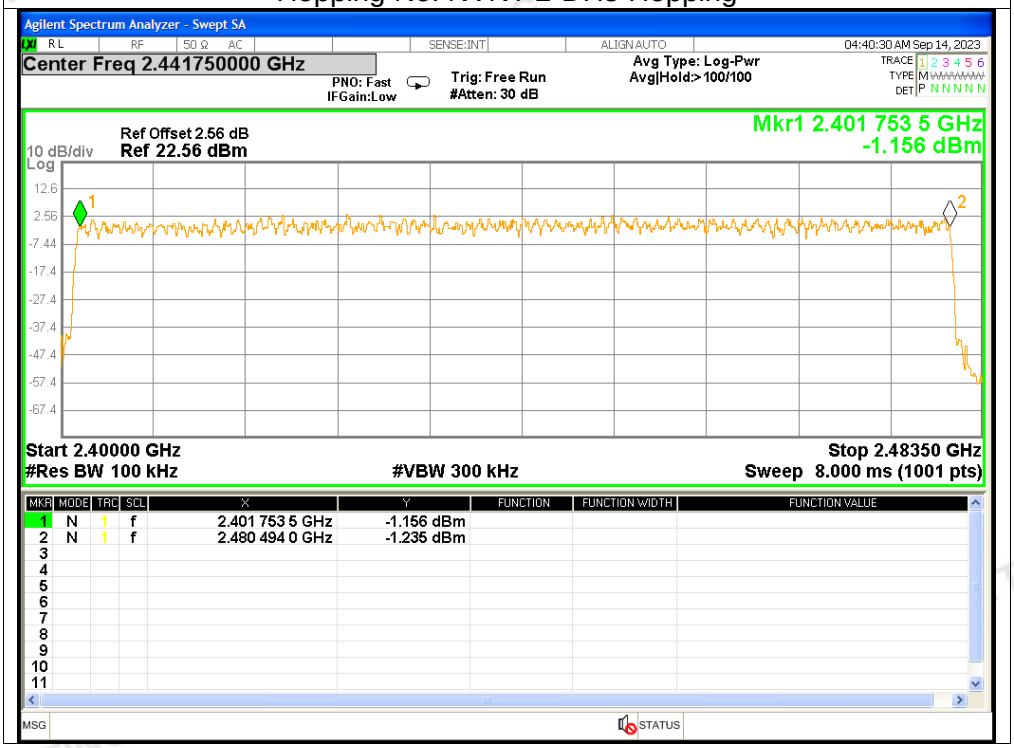
| Condition | Mode | Hopping Number | Limit | Verdict |
|---|---|---|---|---|
| NVNT | 1-DH5 | 79 | >=15 | Pass |
| NVNT | 2-DH5 | 79 | >=15 | Pass |
| NVNT | 3-DH5 | 79 | >=15 | Pass |

## Test Graphs

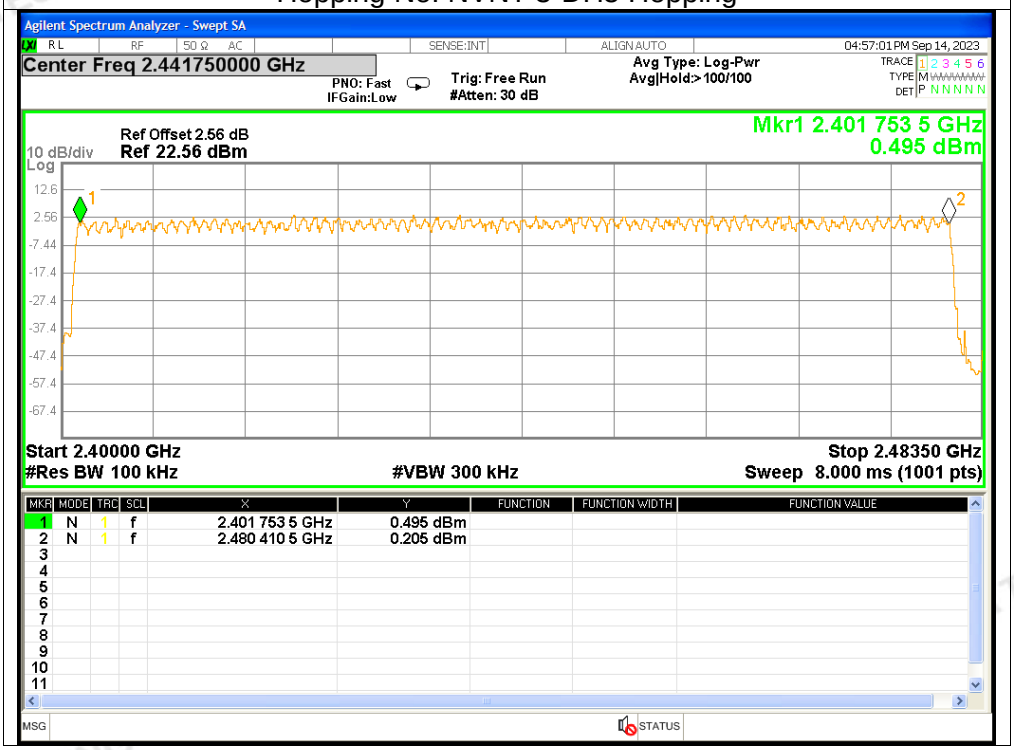
### Hopping No. NVNT 1-DH5 Hopping




### Hopping No. NVNT 2-DH5 Hopping



Hopping No. NVNT 3-DH5 Hopping

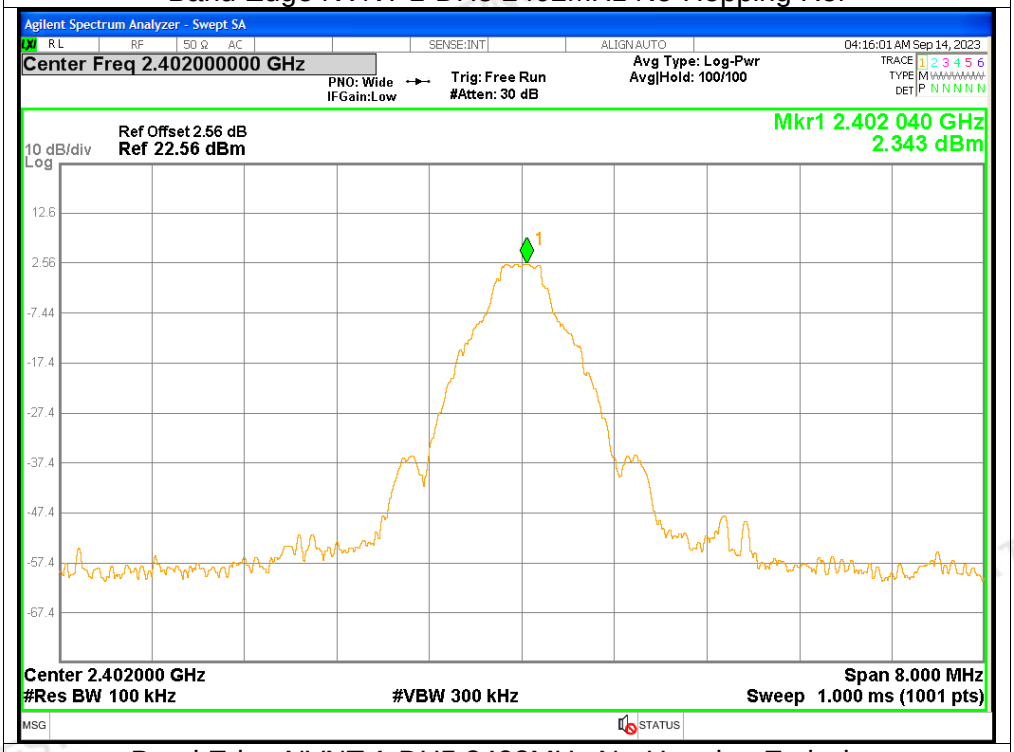


# 7. Band Edge

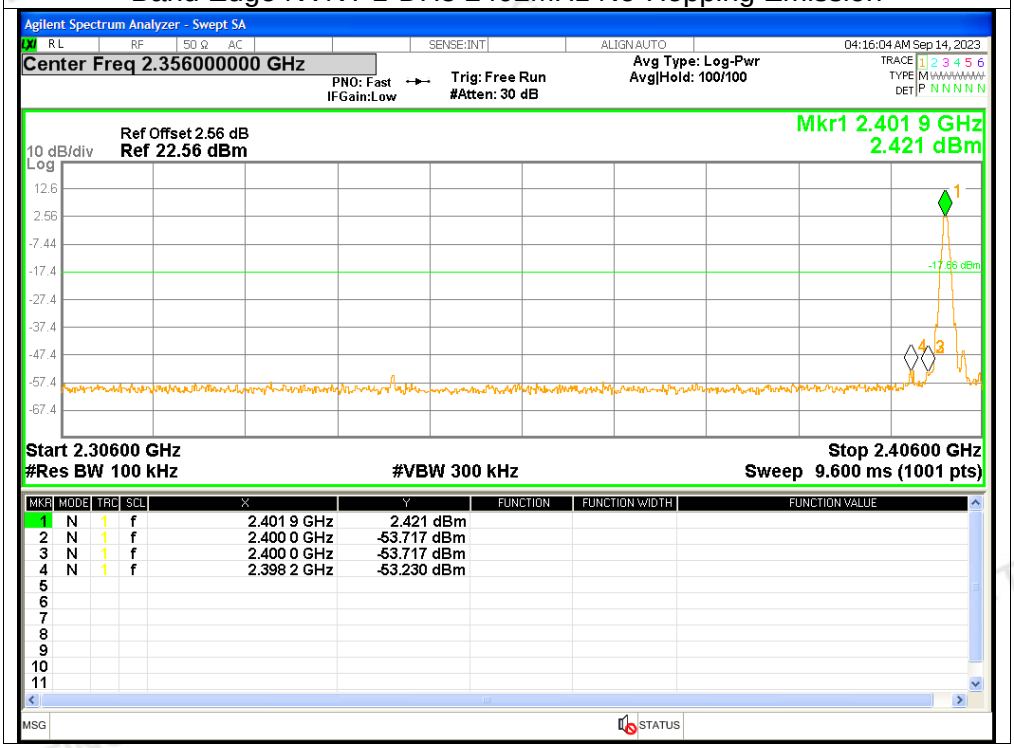
| Condition | Mode | Frequency (MHz) | Hopping Mode | Max Value (dBc) | Limit (dBc) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | 1-DH5 | 2402 | No-Hopping | -55.56 | <=-20 | Pass |
| NVNT | 1-DH5 | 2480 | No-Hopping | -58.54 | <=-20 | Pass |
| NVNT | 2-DH5 | 2402 | No-Hopping | -48.52 | <=-20 | Pass |
| NVNT | 2-DH5 | 2480 | No-Hopping | -55.03 | <=-20 | Pass |
| NVNT | 3-DH5 | 2402 | No-Hopping | -49.85 | <=-20 | Pass |
| NVNT | 3-DH5 | 2480 | No-Hopping | -54.4 | <=-20 | Pass |

## Test Graphs

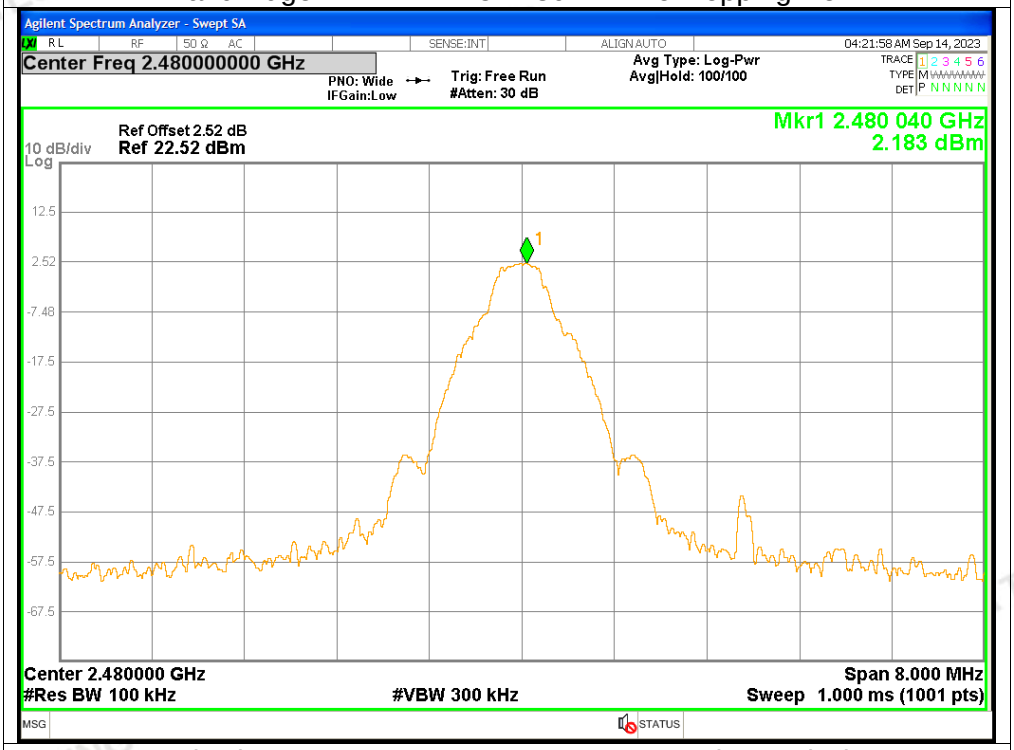
### Band Edge NVNT 1-DH5 2402MHz No-Hopping Ref



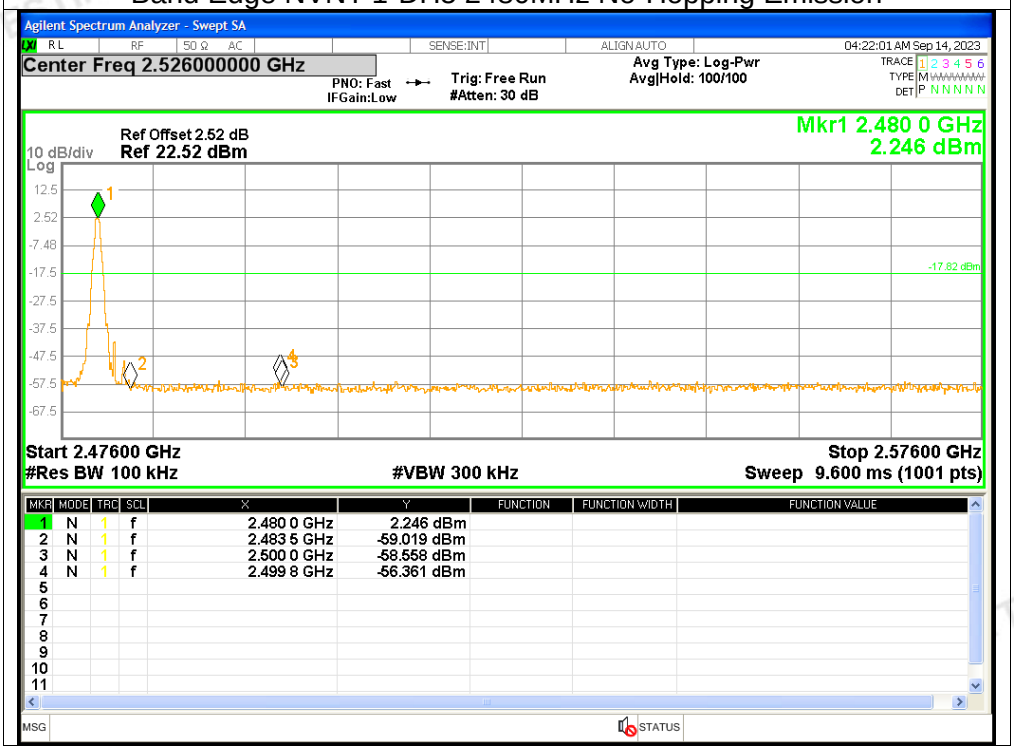

### Band Edge NVNT 1-DH5 2402MHz No-Hopping Emission



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

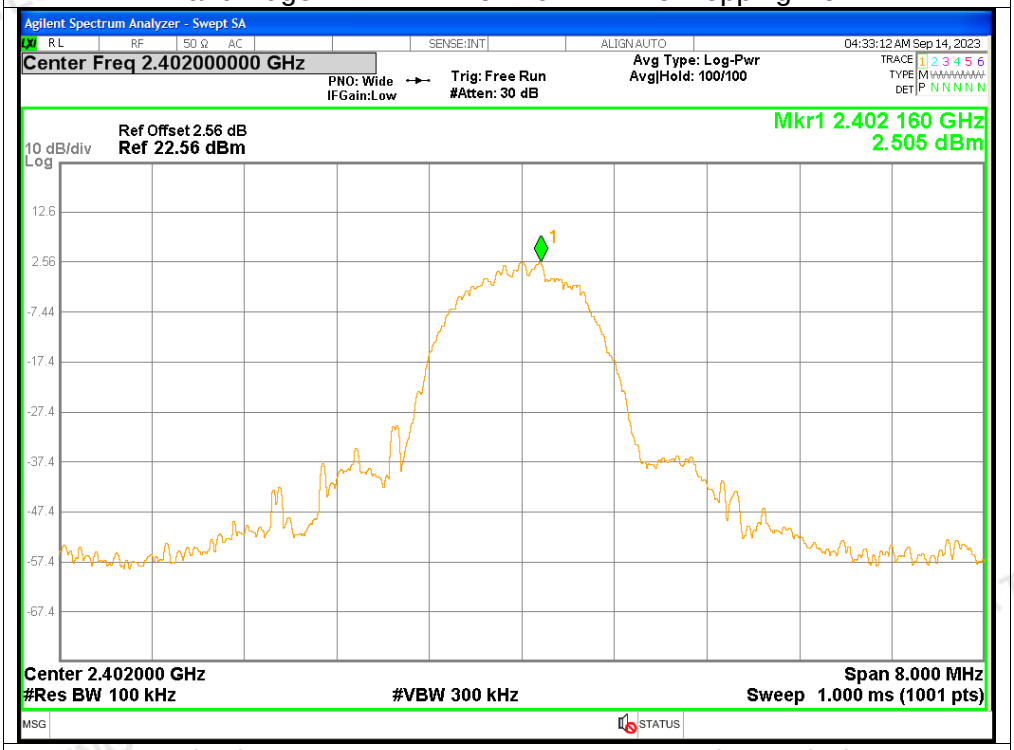



Band Edge NVNT 1-DH5 2480MHz No-Hopping Emission

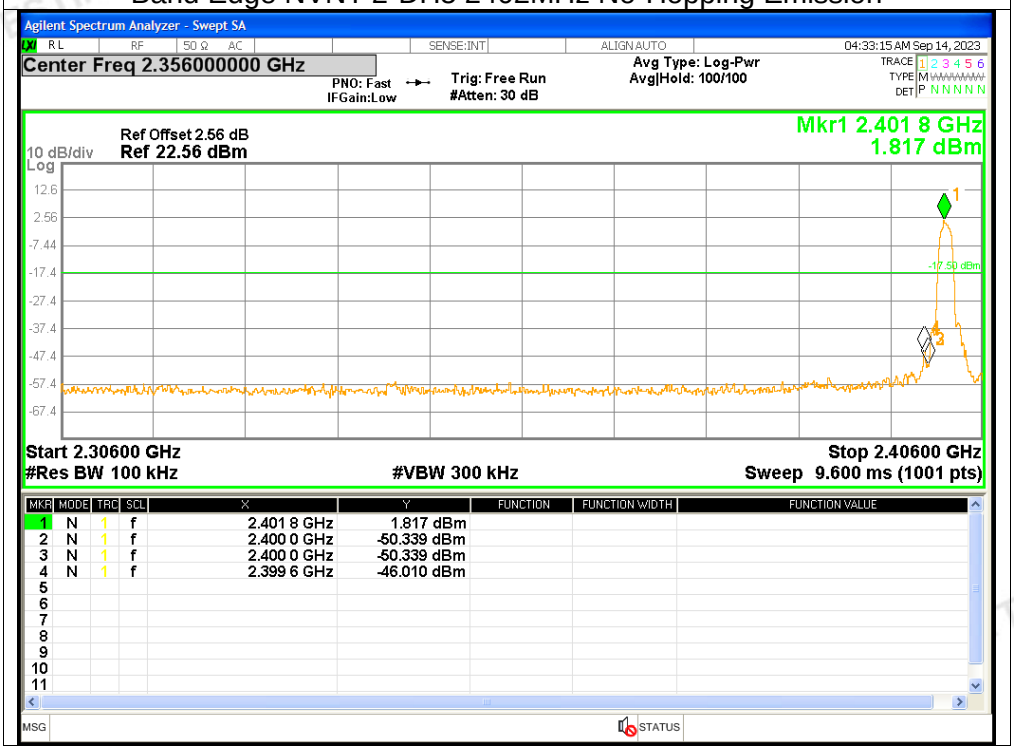



| MKR | MODE | TRC | SCL | X | Y | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE |
|---|---|---|---|---|---|---|---|---|
| 1 | N | 1 | f | 2.480 0 GHz | 2.246 dBm | | | |
| 2 | N | 1 | f | 2.483 5 GHz | -59.019 dBm | | | |
| 3 | N | 1 | f | 2.500 0 GHz | -58.558 dBm | | | |
| 4 | N | 1 | f | 2.499 8 GHz | -56.361 dBm | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |

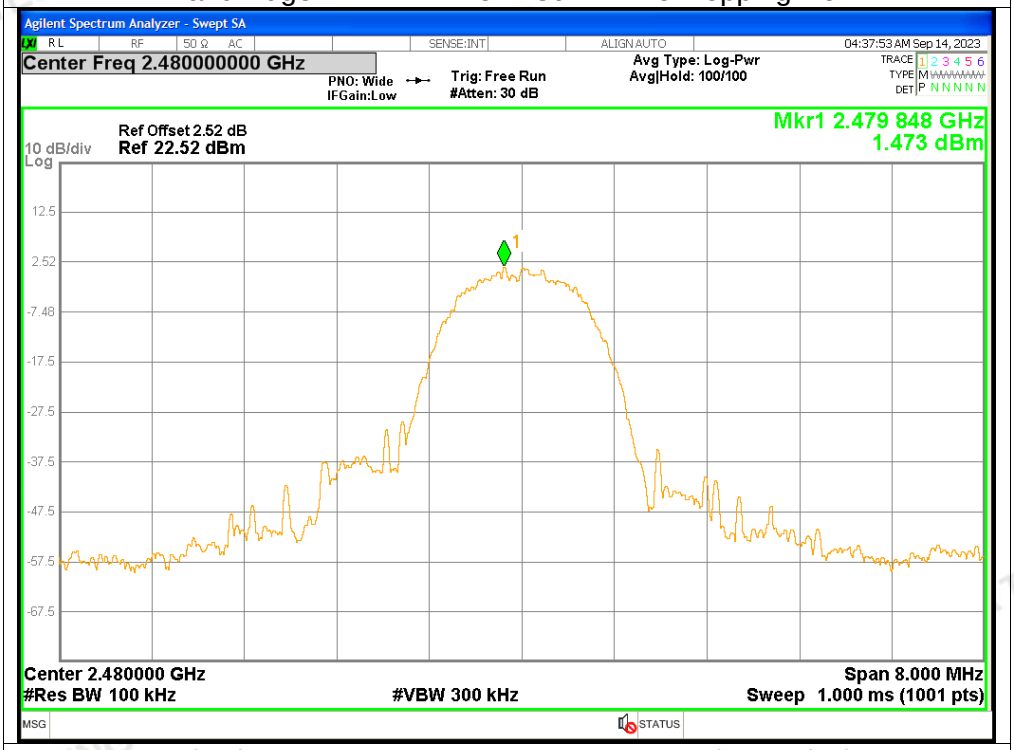
Band Edge NVNT 2-DH5 2402MHz No-Hopping Ref



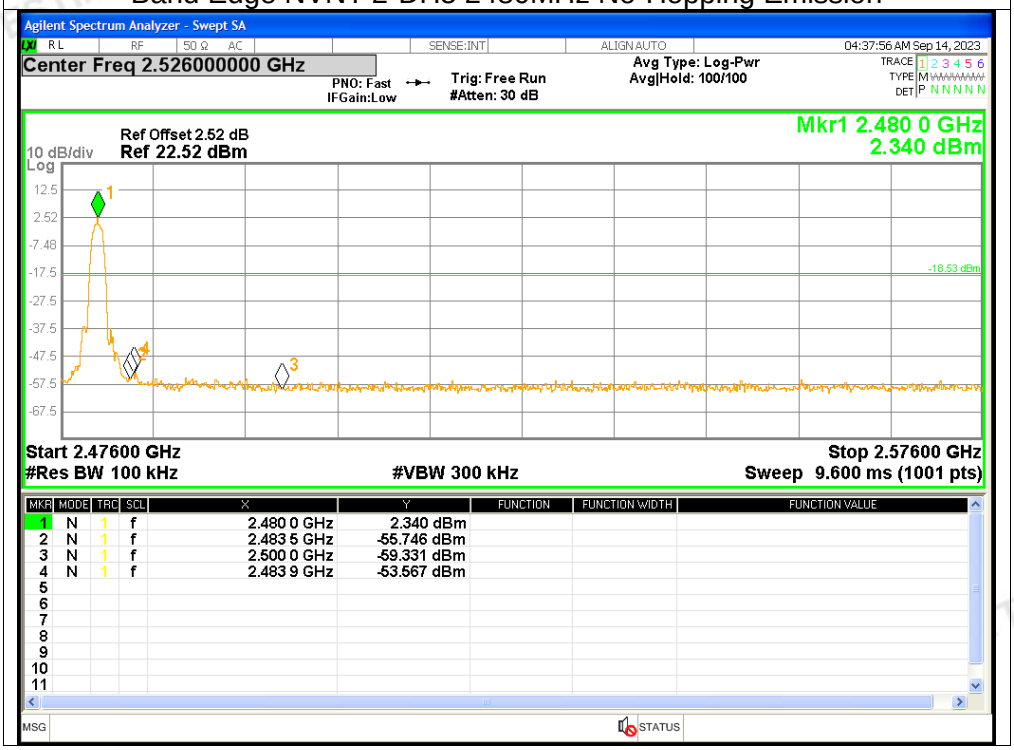

Band Edge NVNT 2-DH5 2402MHz No-Hopping Emission



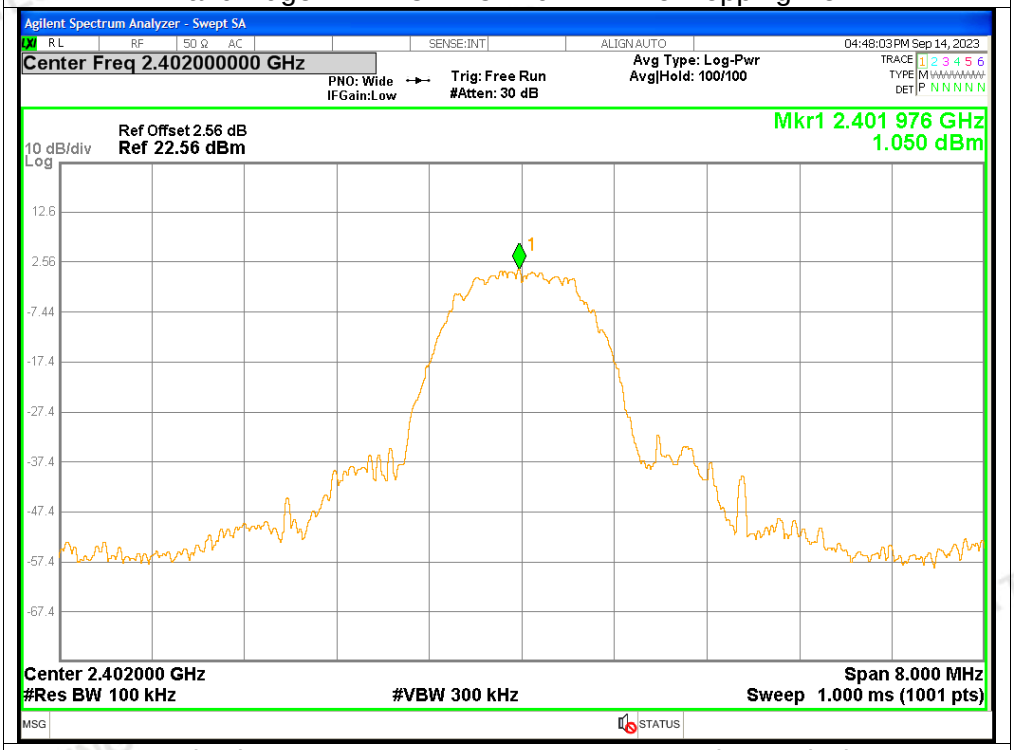
Band Edge NVNT 2-DH5 2480MHz No-Hopping Ref



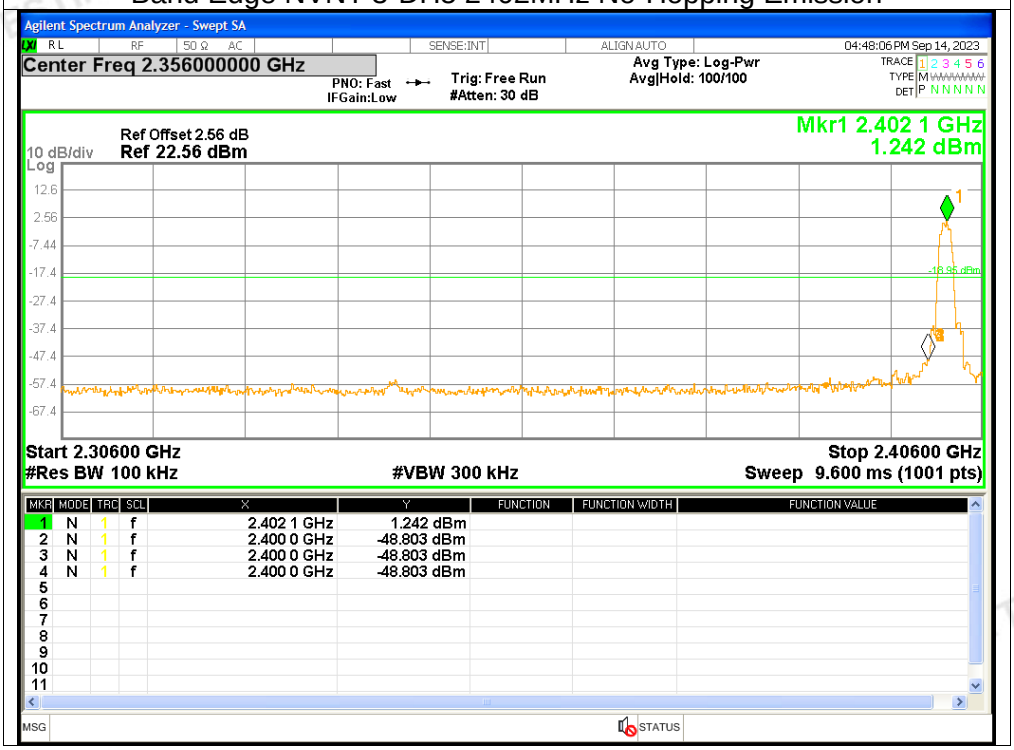

Band Edge NVNT 2-DH5 2480MHz No-Hopping Emission



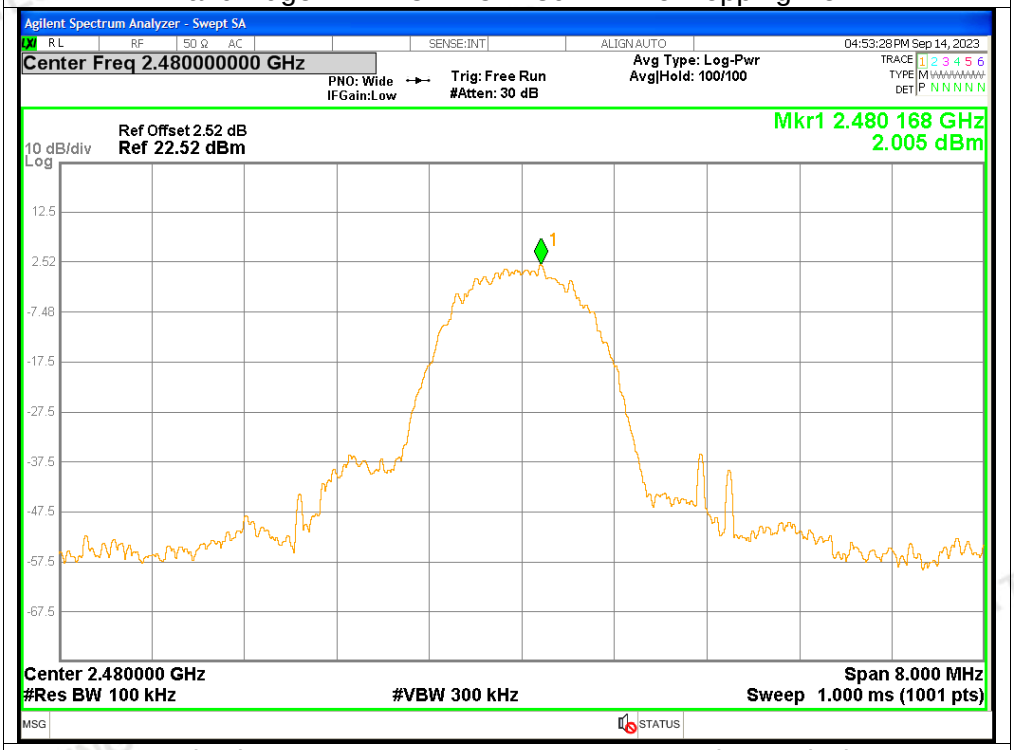
Band Edge NVNT 3-DH5 2402MHz No-Hopping Ref



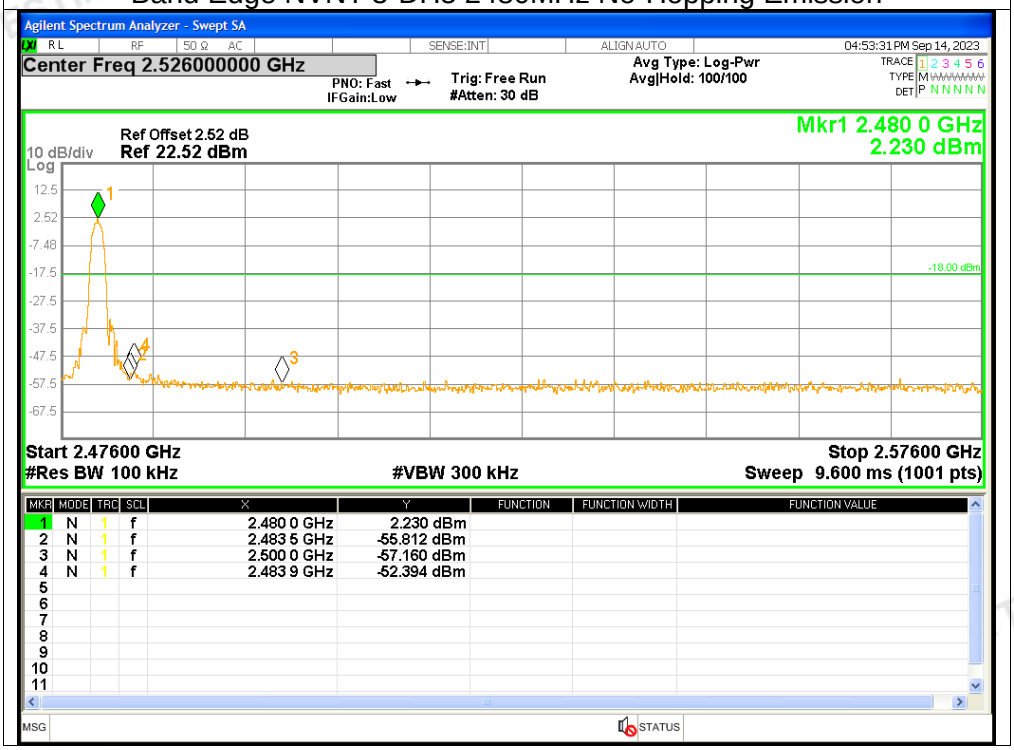

Band Edge NVNT 3-DH5 2402MHz No-Hopping Emission



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




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

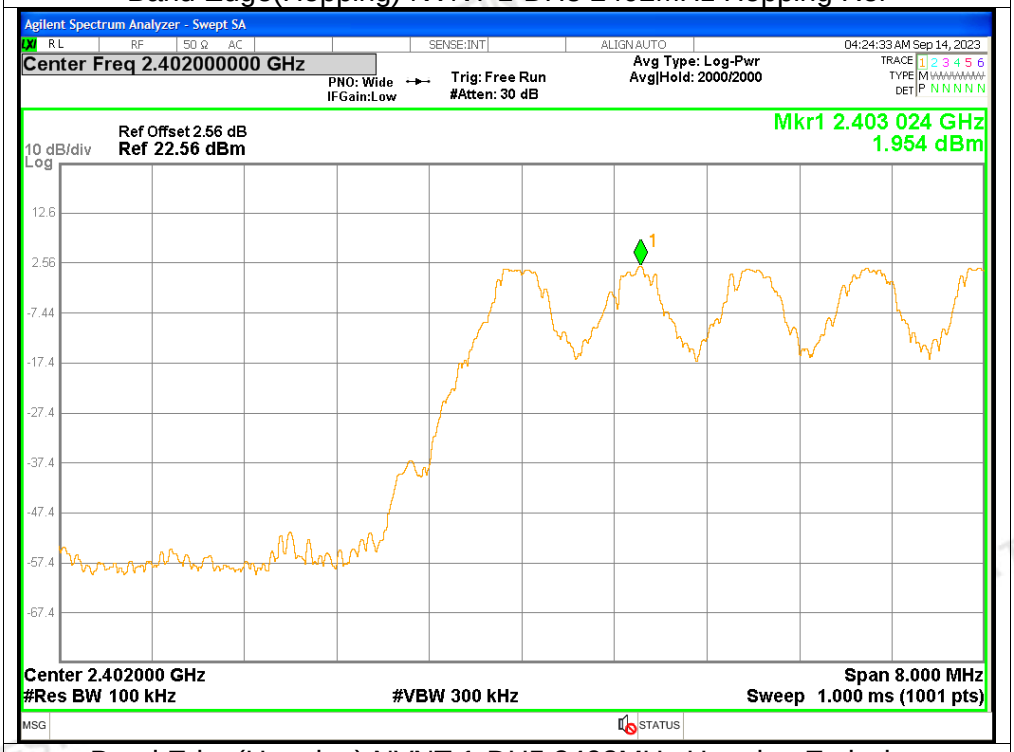


# 8. Band Edge(Hopping)

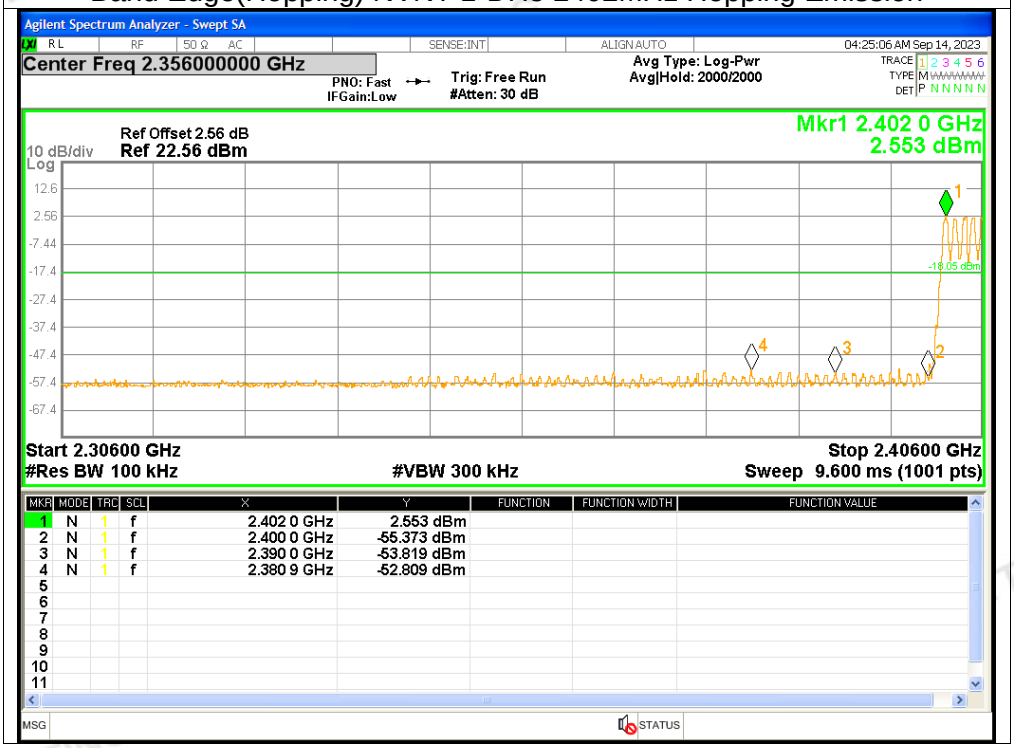
| Condition | Mode | Frequency (MHz) | Hopping Mode | Max Value (dBc) | Limit (dBc) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | 1-DH5 | 2402 | Hopping | -54.75 | <=-20 | Pass |
| NVNT | 1-DH5 | 2480 | Hopping | -58.98 | <=-20 | Pass |
| NVNT | 2-DH5 | 2402 | Hopping | -55.37 | <=-20 | Pass |
| NVNT | 2-DH5 | 2480 | Hopping | -59 | <=-20 | Pass |
| NVNT | 3-DH5 | 2402 | Hopping | -58.03 | <=-20 | Pass |
| NVNT | 3-DH5 | 2480 | Hopping | -55.86 | <=-20 | Pass |

## Test Graphs

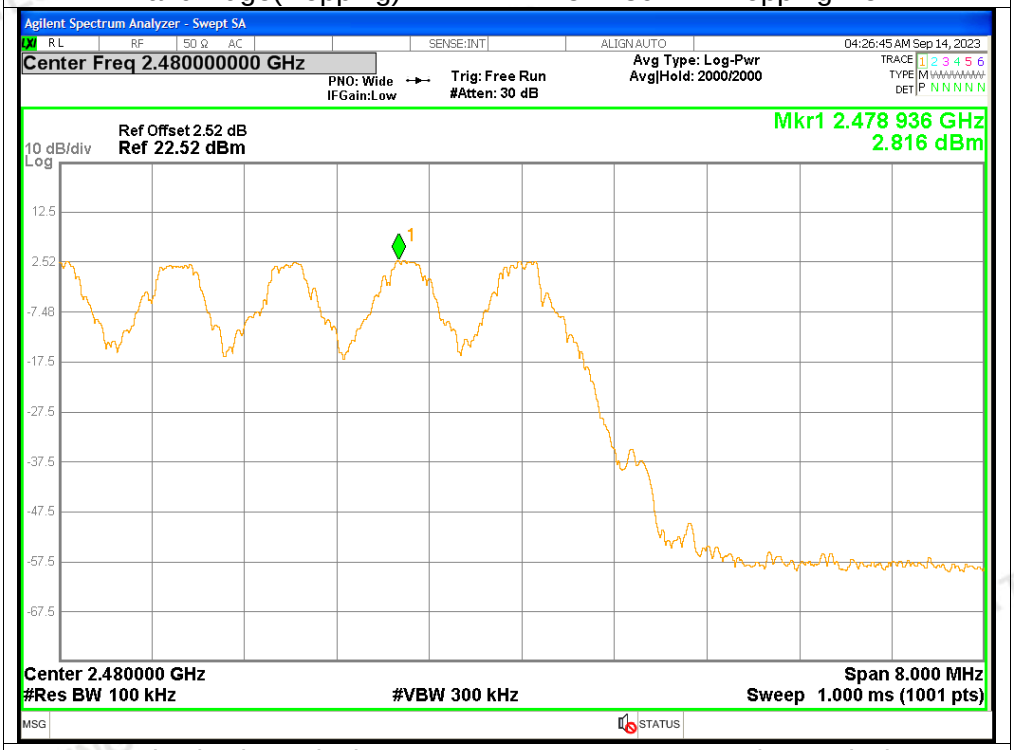
### Band Edge(Hopping) NVNT 1-DH5 2402MHz Hopping Ref



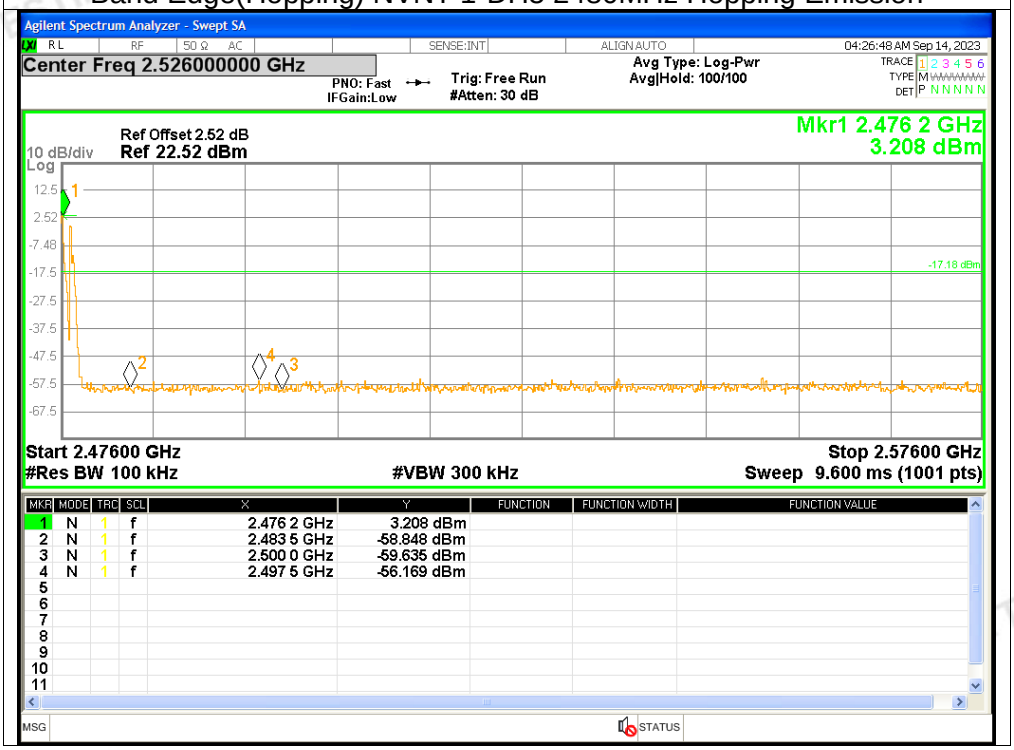

### Band Edge(Hopping) NVNT 1-DH5 2402MHz Hopping Emission



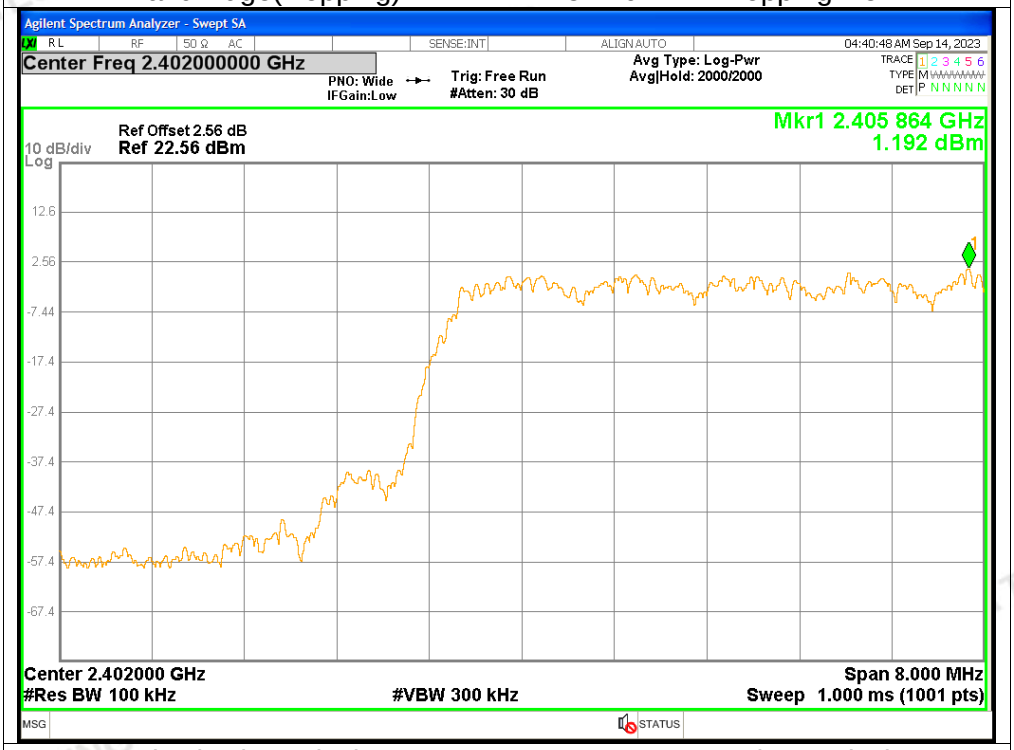
Band Edge(Hopping) NVNT 1-DH5 2480MHz Hopping Ref



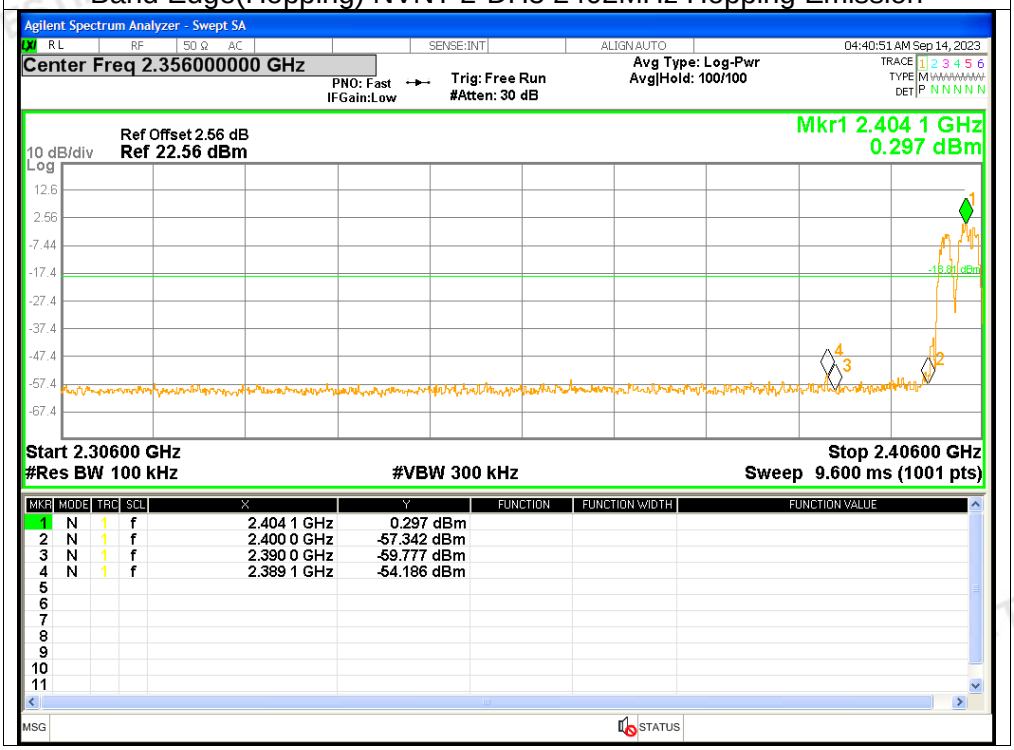

Band Edge(Hopping) NVNT 1-DH5 2480MHz Hopping Emission



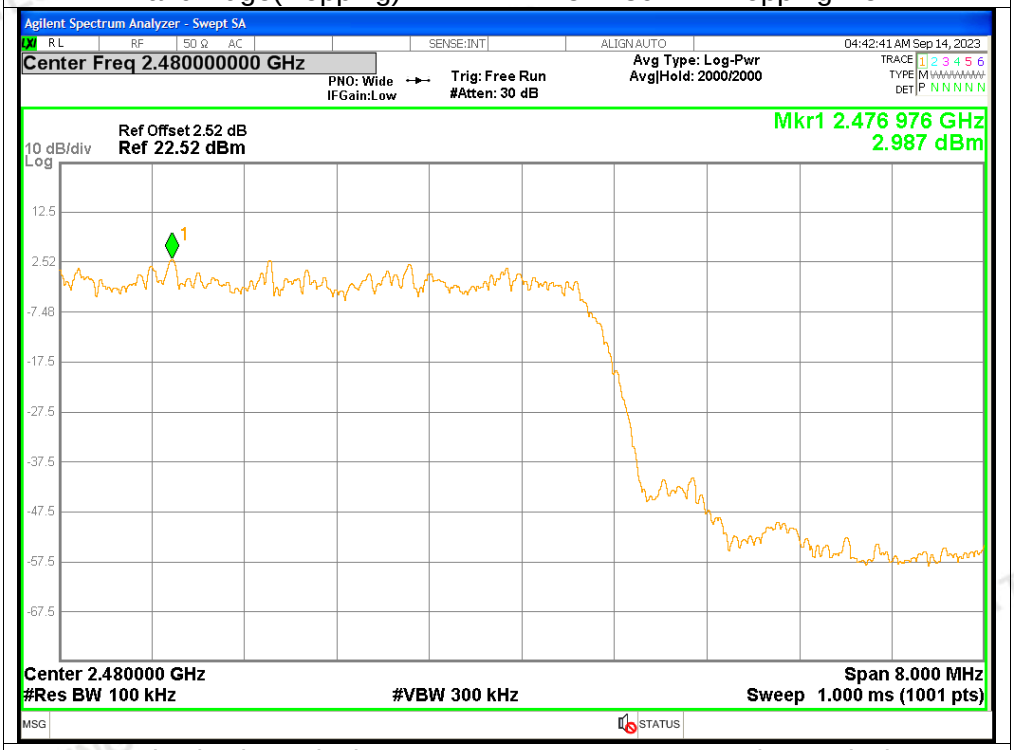
Band Edge(Hopping) NVNT 2-DH5 2402MHz Hopping Ref



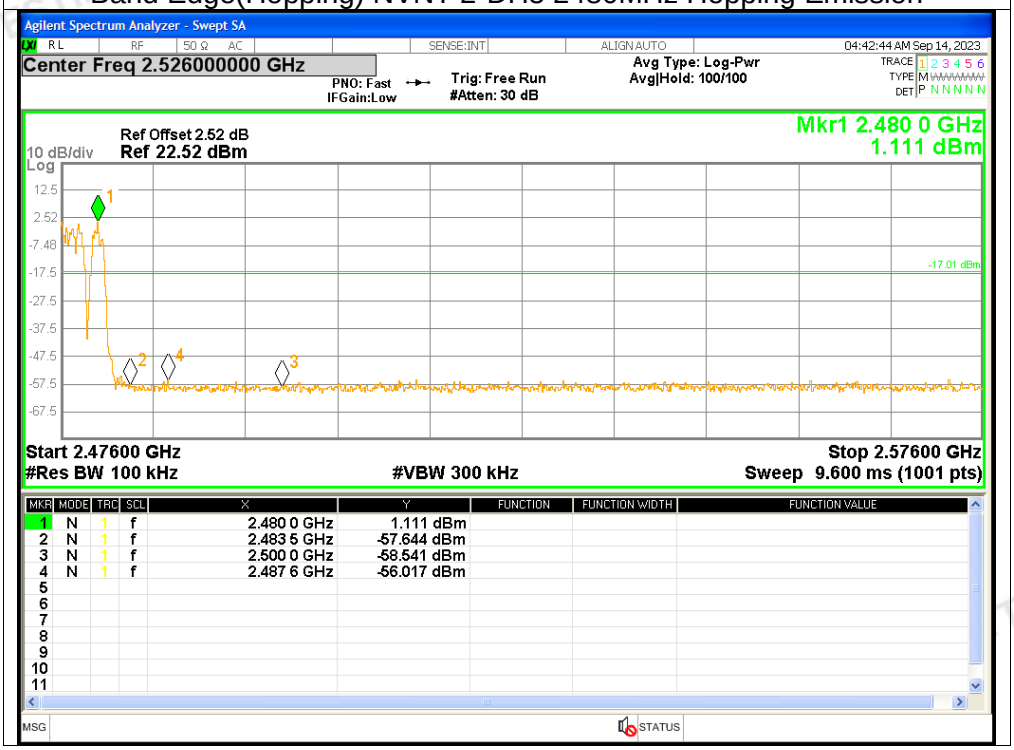

Band Edge(Hopping) NVNT 2-DH5 2402MHz Hopping Emission



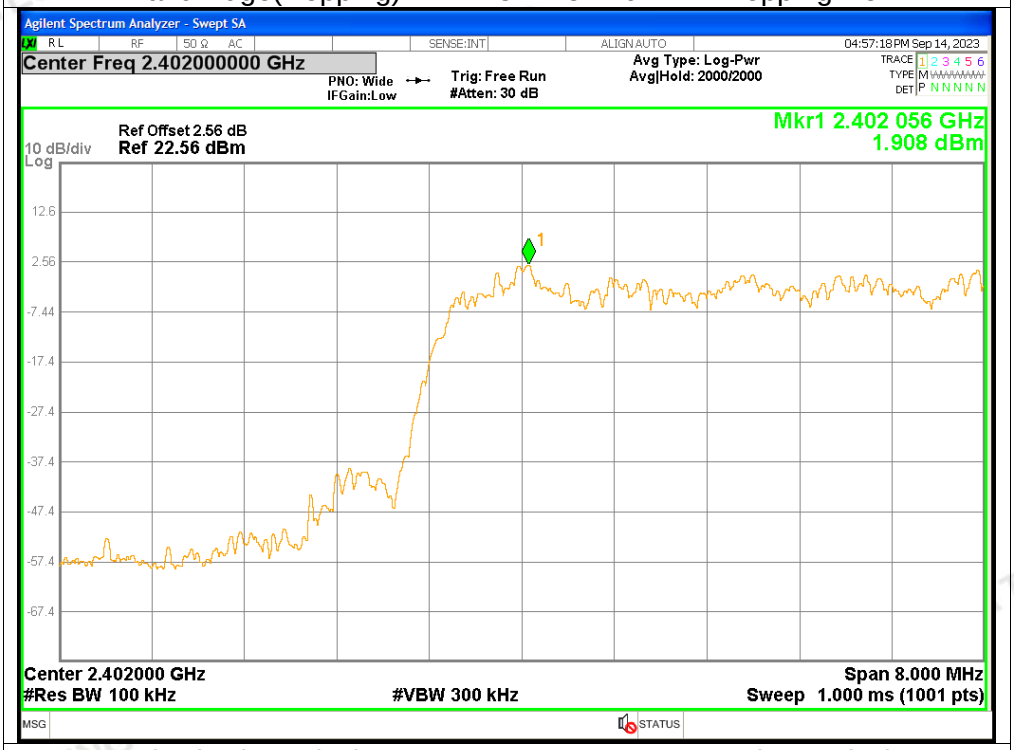
Band Edge(Hopping) NVNT 2-DH5 2480MHz Hopping Ref



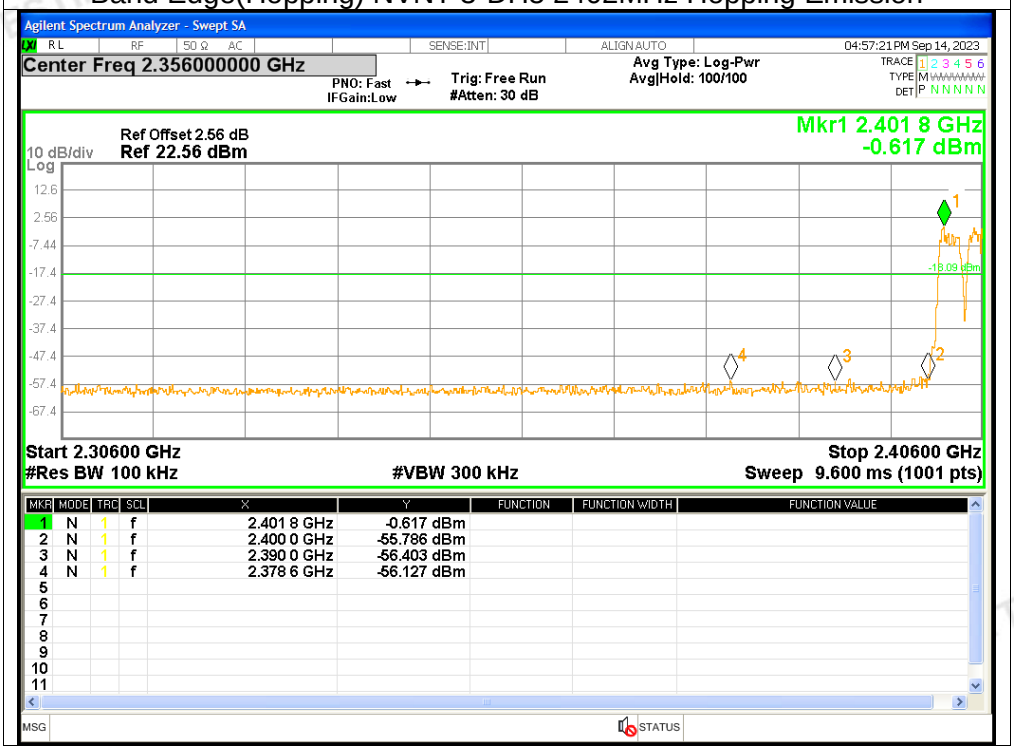

Band Edge(Hopping) NVNT 2-DH5 2480MHz Hopping Emission



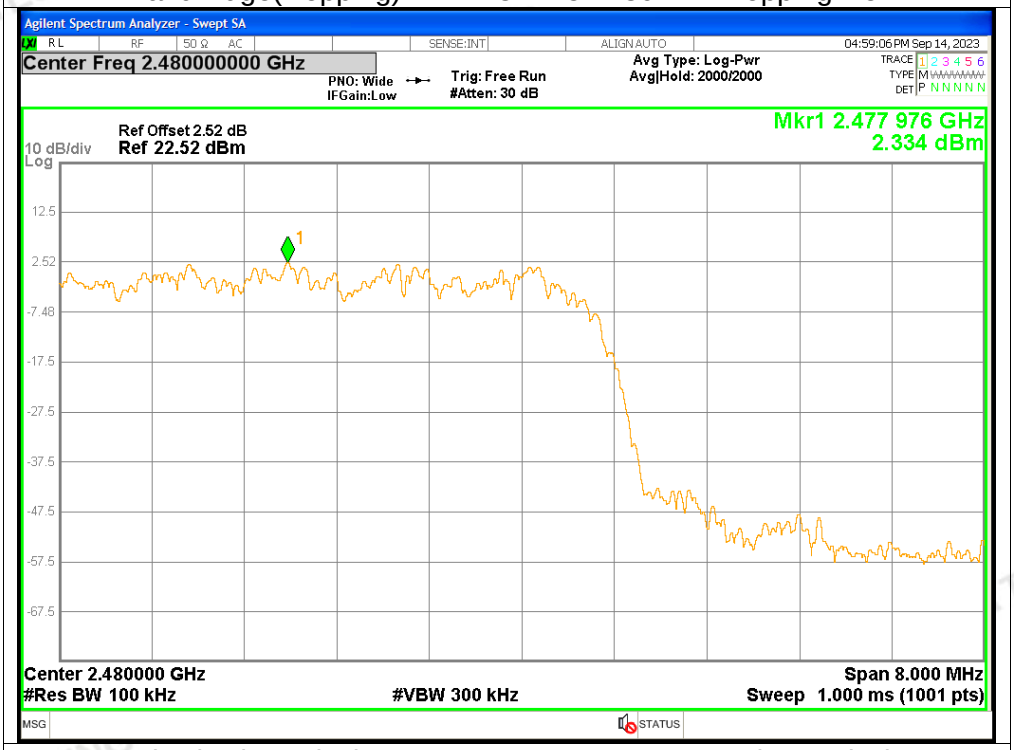
Band Edge(Hopping) NVNT 3-DH5 2402MHz Hopping Ref



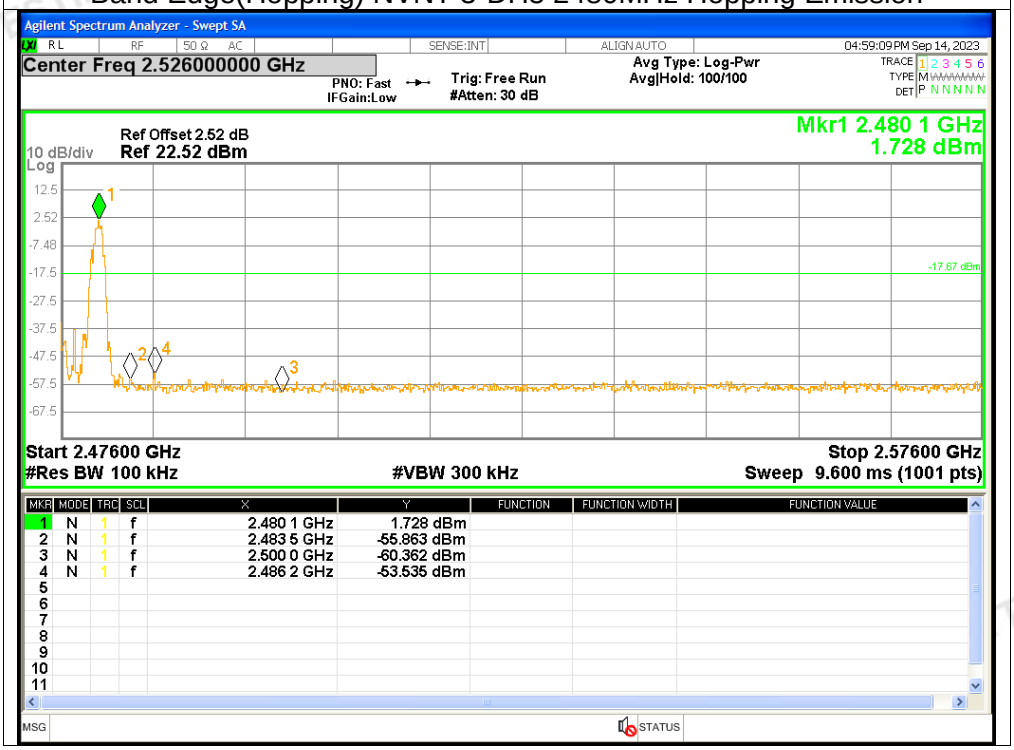

Band Edge(Hopping) NVNT 3-DH5 2402MHz Hopping Emission



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




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

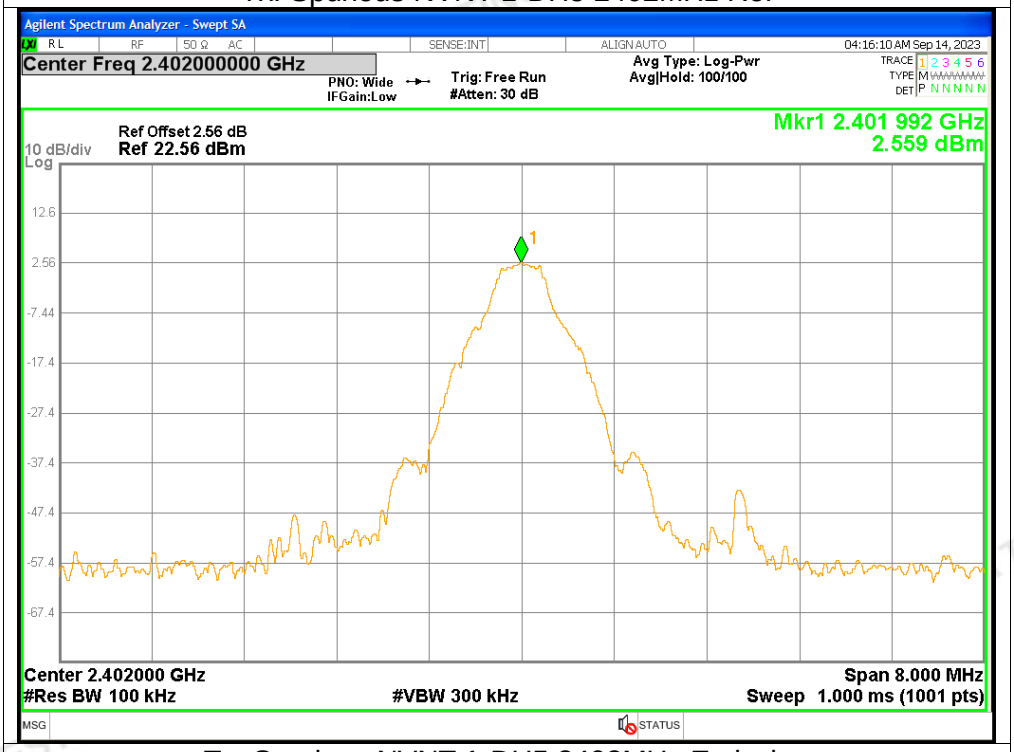


# 9. Conducted RF Spurious Emission

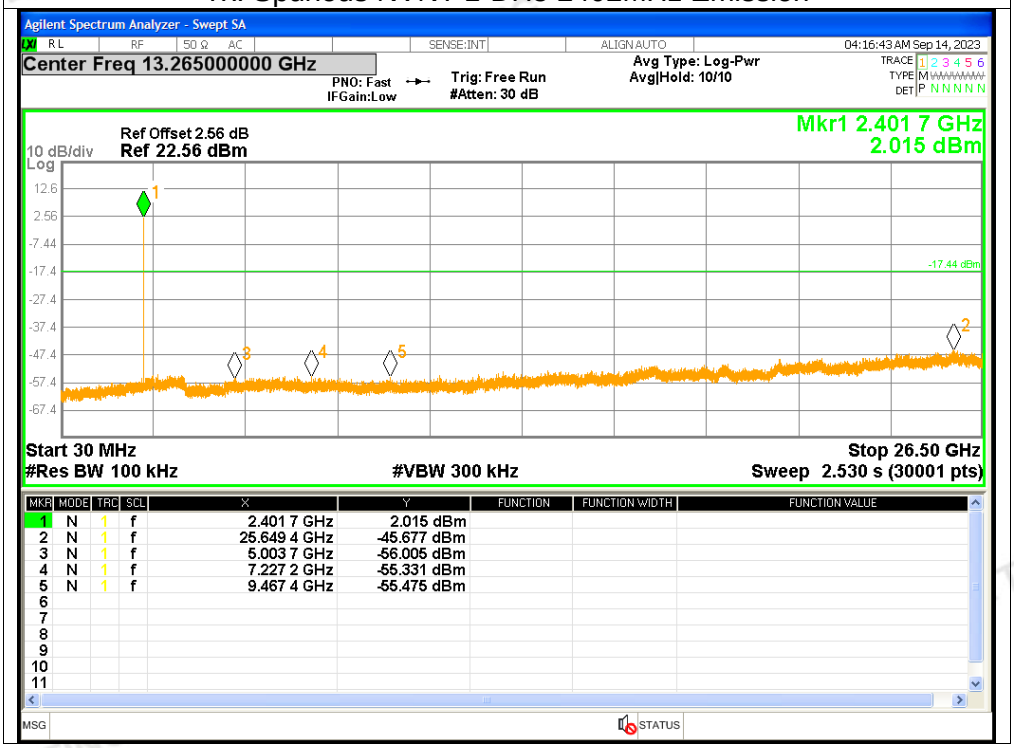
| Condition | Mode | Frequency (MHz) | Max Value (dBc) | Limit (dBc) | Verdict |
|---|---|---|---|---|---|
| NVNT | 1-DH5 | 2402 | -48.23 | <=-20 | Pass |
| NVNT | 1-DH5 | 2441 | -46.94 | <=-20 | Pass |
| NVNT | 1-DH5 | 2480 | -47.7 | <=-20 | Pass |
| NVNT | 2-DH5 | 2402 | -46.79 | <=-20 | Pass |
| NVNT | 2-DH5 | 2441 | -48.04 | <=-20 | Pass |
| NVNT | 2-DH5 | 2480 | -47.1 | <=-20 | Pass |
| NVNT | 3-DH5 | 2402 | -47.8 | <=-20 | Pass |
| NVNT | 3-DH5 | 2441 | -46.39 | <=-20 | Pass |
| NVNT | 3-DH5 | 2480 | -45.95 | <=-20 | Pass |

## Test Graphs

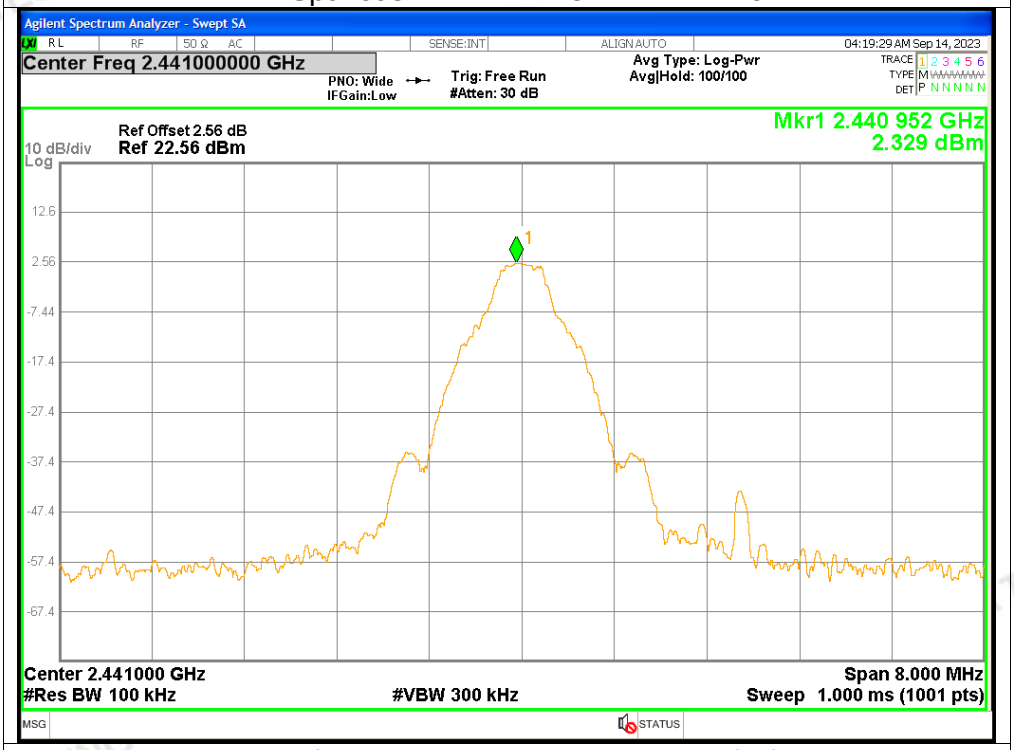
### Tx. Spurious NVNT 1-DH5 2402MHz Ref



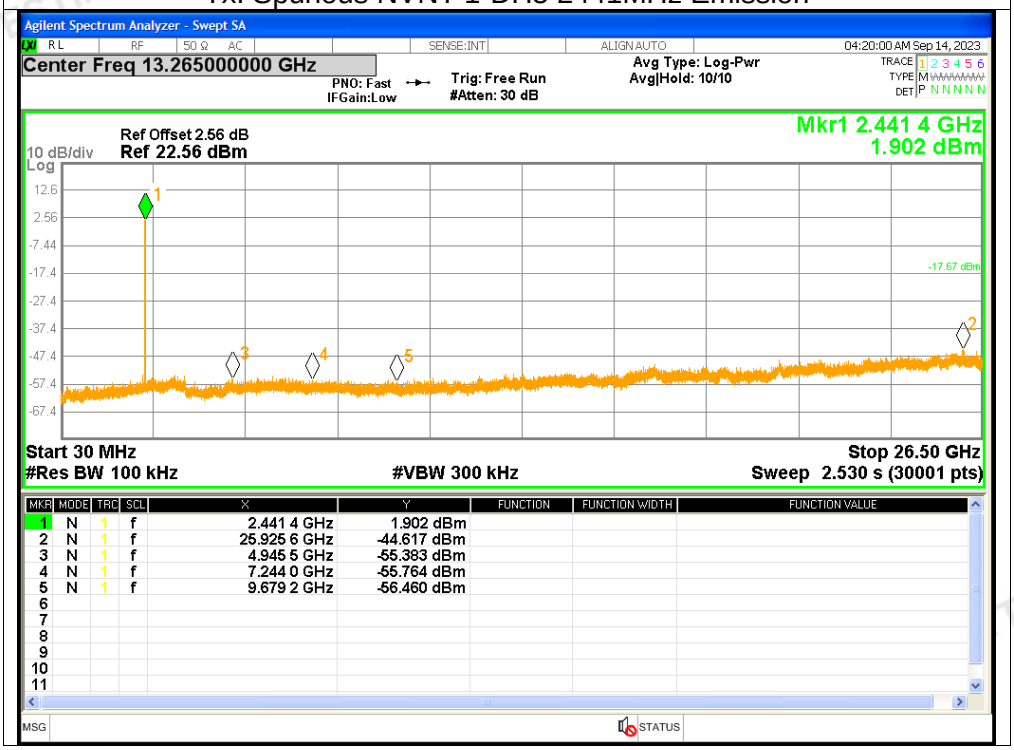

### Tx. Spurious NVNT 1-DH5 2402MHz Emission



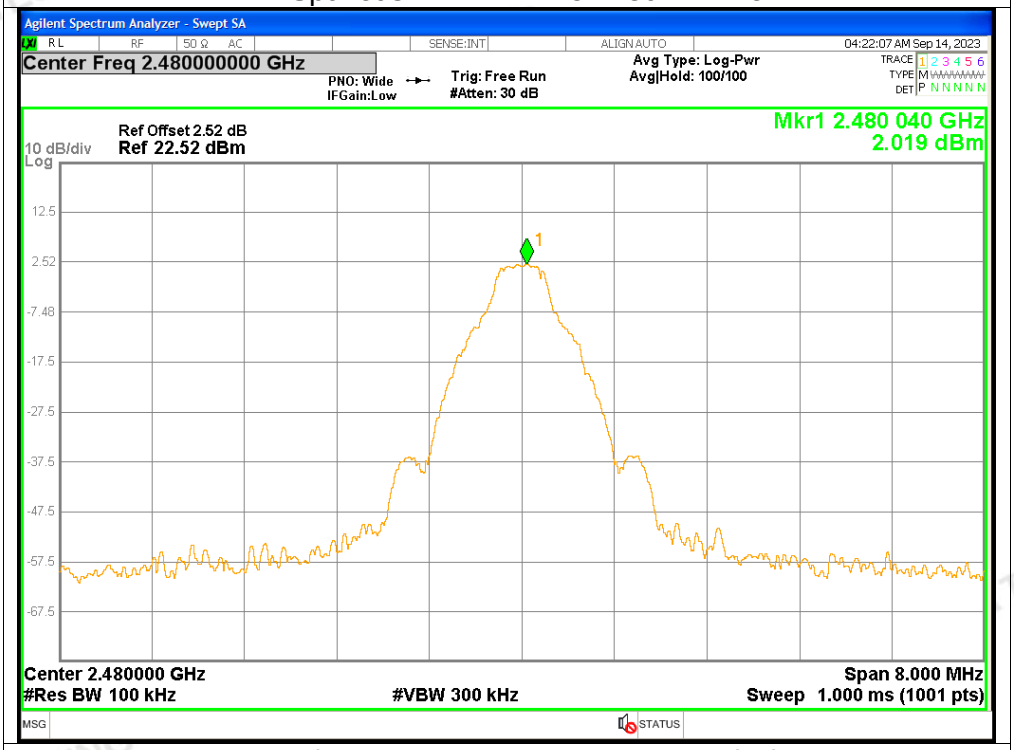
Tx. Spurious NVNT 1-DH5 2441MHz Ref



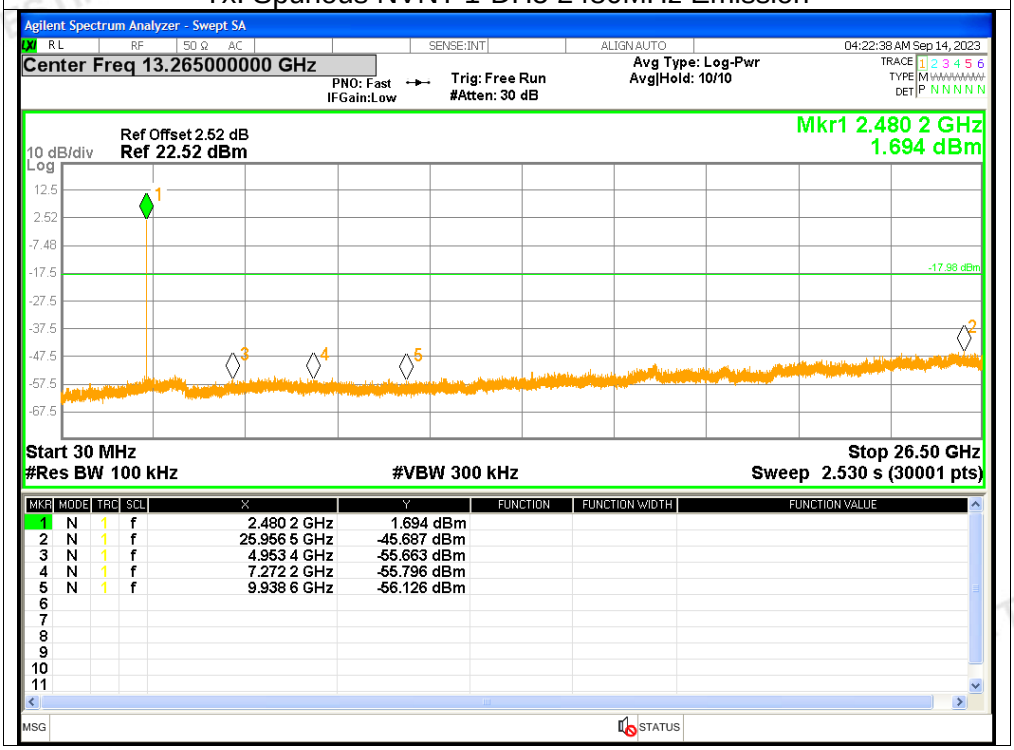

Tx. Spurious NVNT 1-DH5 2441MHz Emission



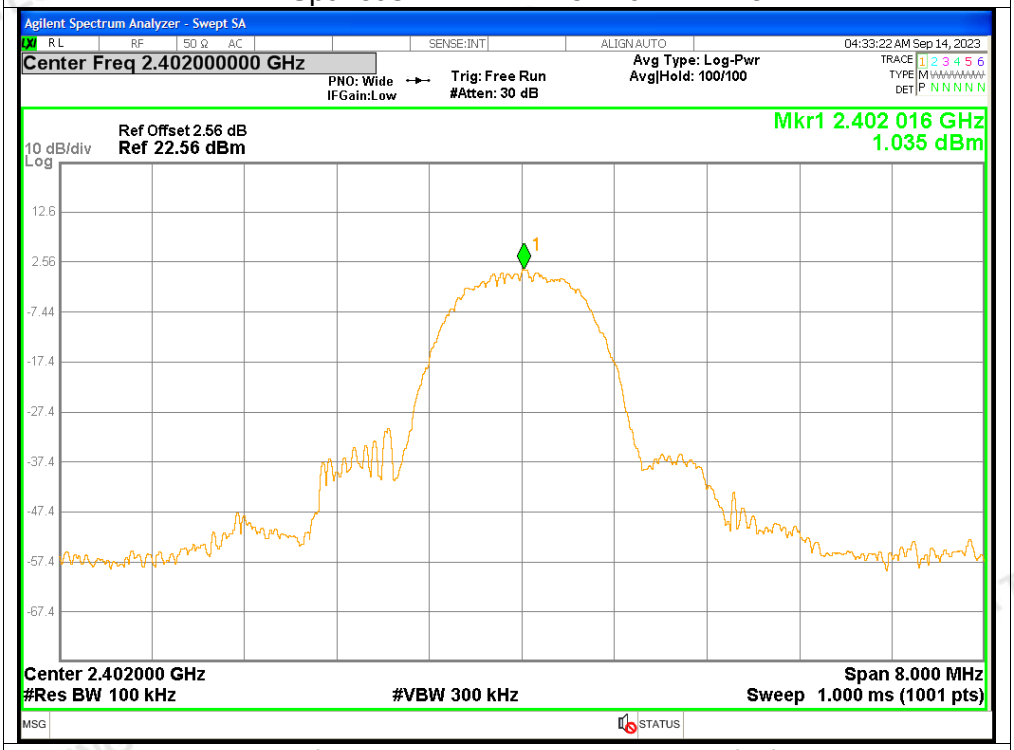
Tx. Spurious NVNT 1-DH5 2480MHz Ref



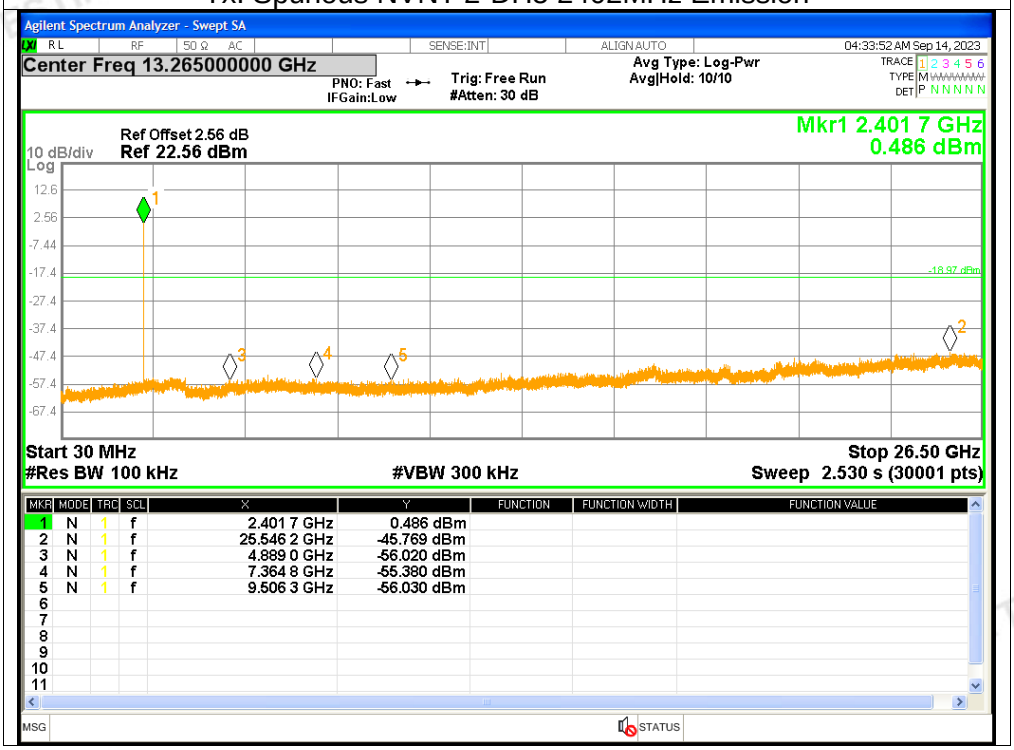

Tx. Spurious NVNT 1-DH5 2480MHz Emission



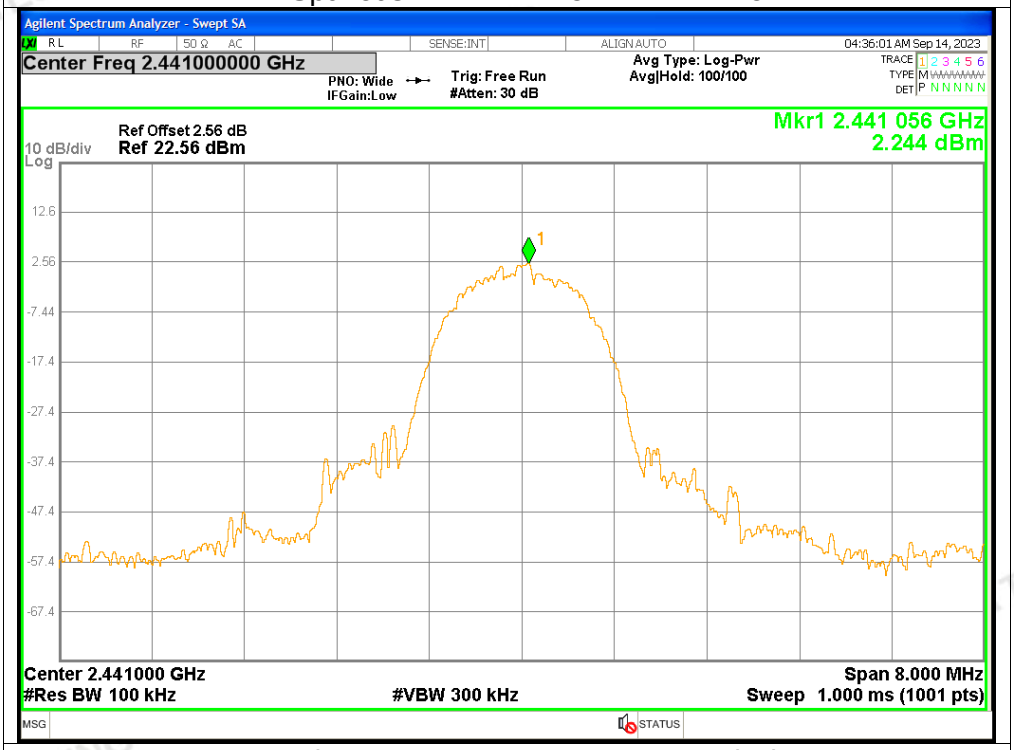
Tx. Spurious NVNT 2-DH5 2402MHz Ref



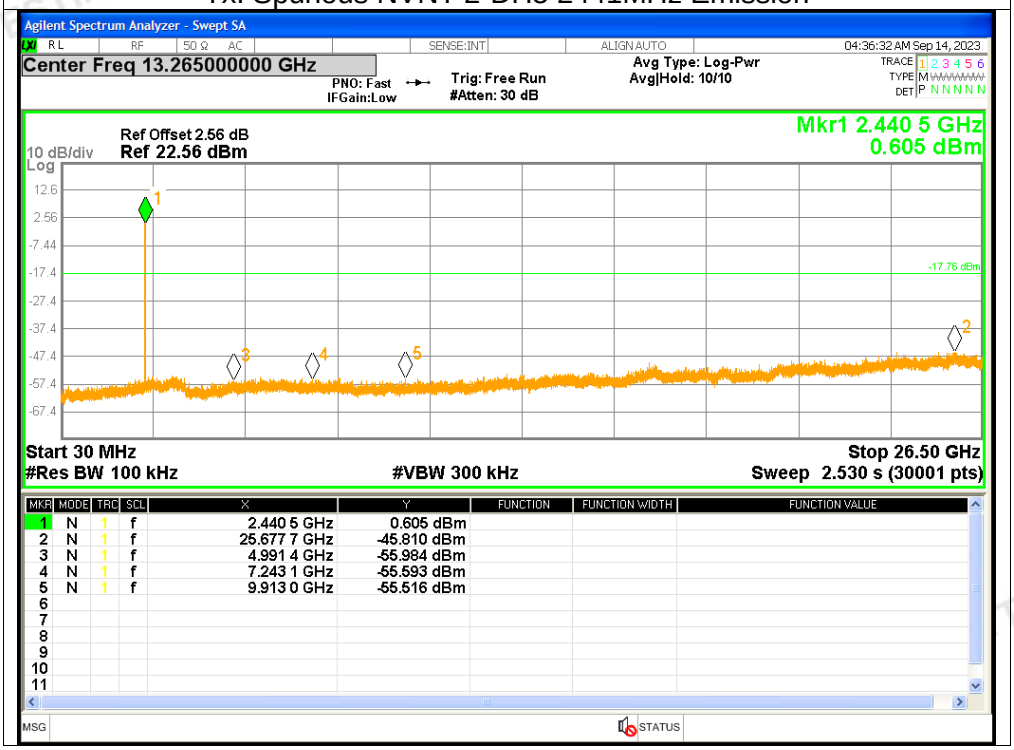

Tx. Spurious NVNT 2-DH5 2402MHz Emission



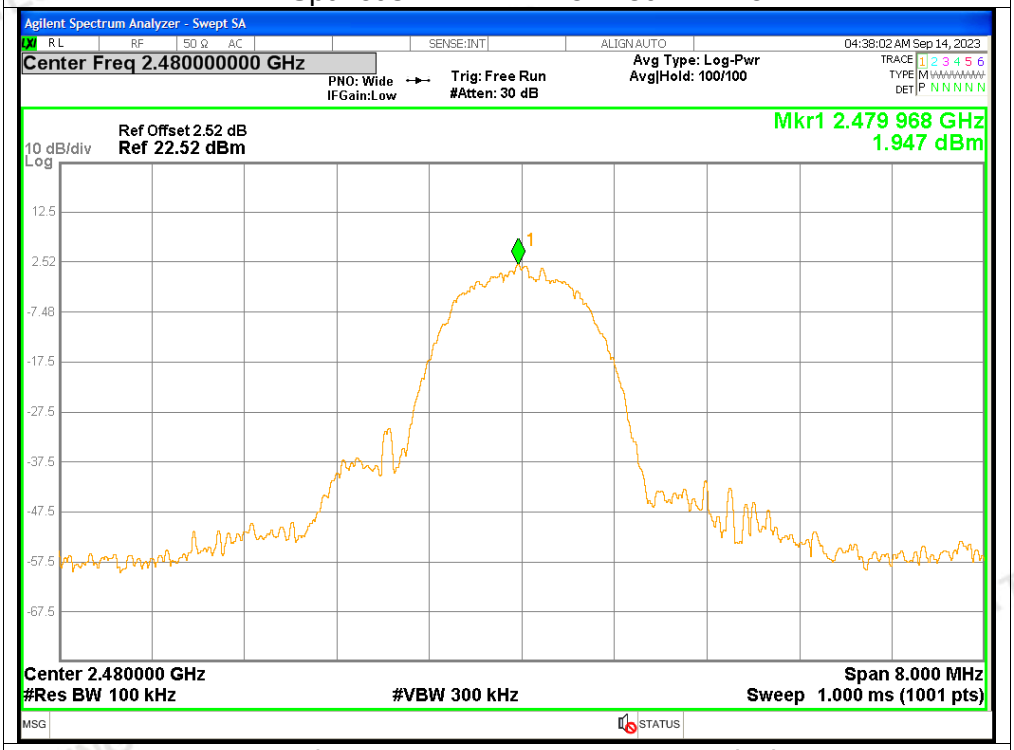
Tx. Spurious NVNT 2-DH5 2441MHz Ref



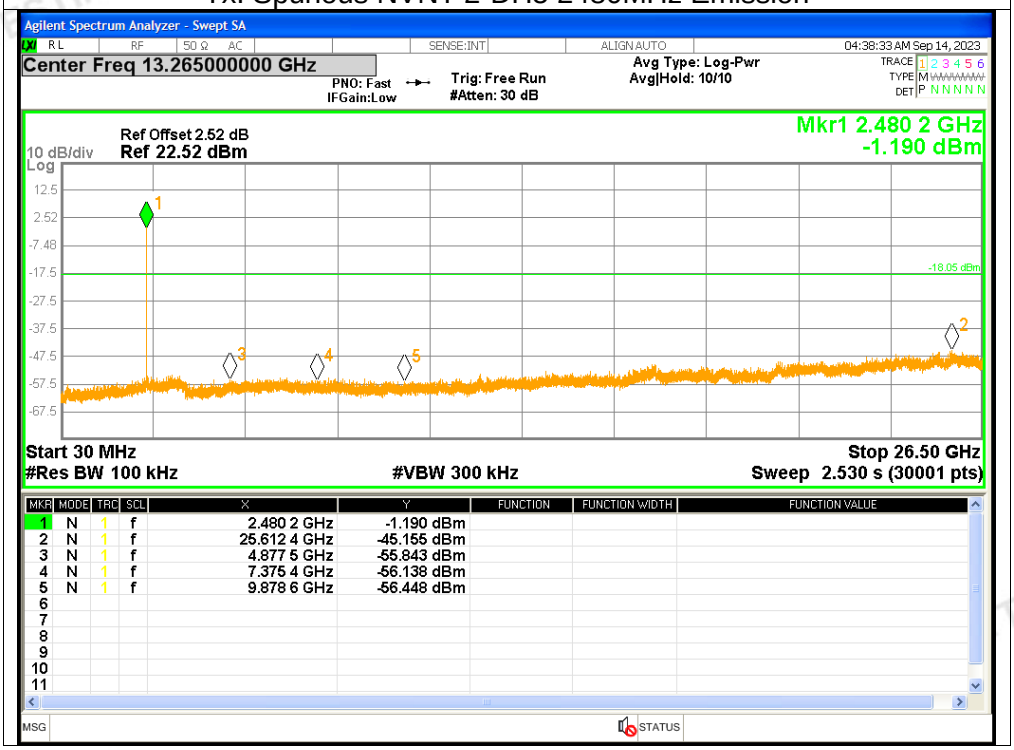

Tx. Spurious NVNT 2-DH5 2441MHz Emission



Tx. Spurious NVNT 2-DH5 2480MHz Ref

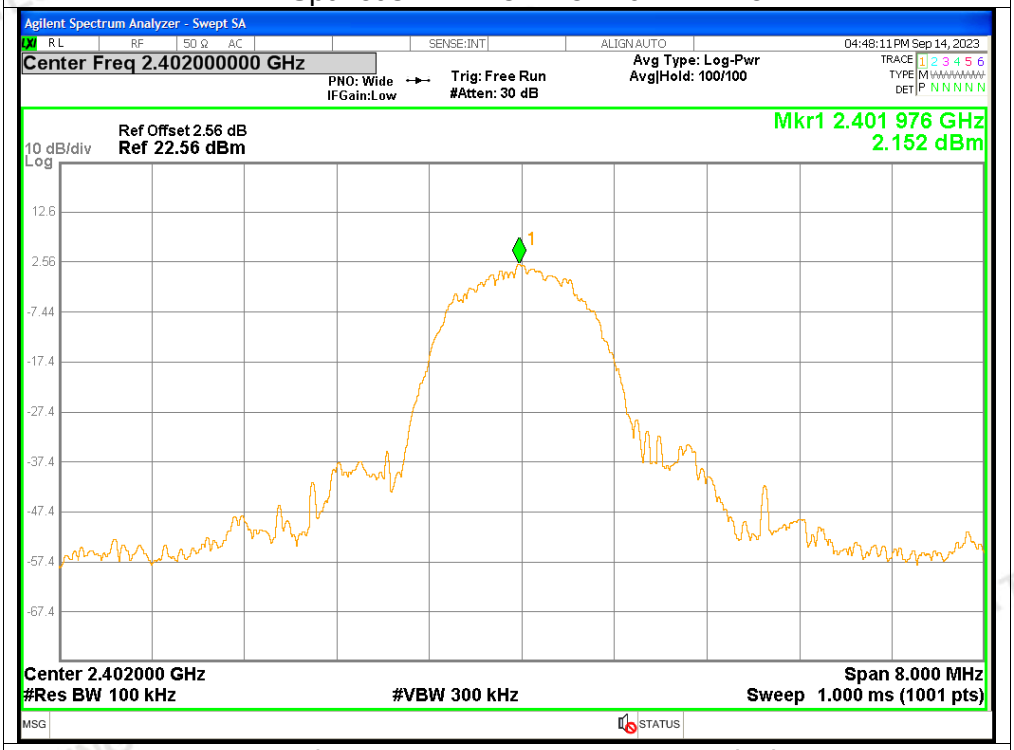



Tx. Spurious NVNT 2-DH5 2480MHz Emission

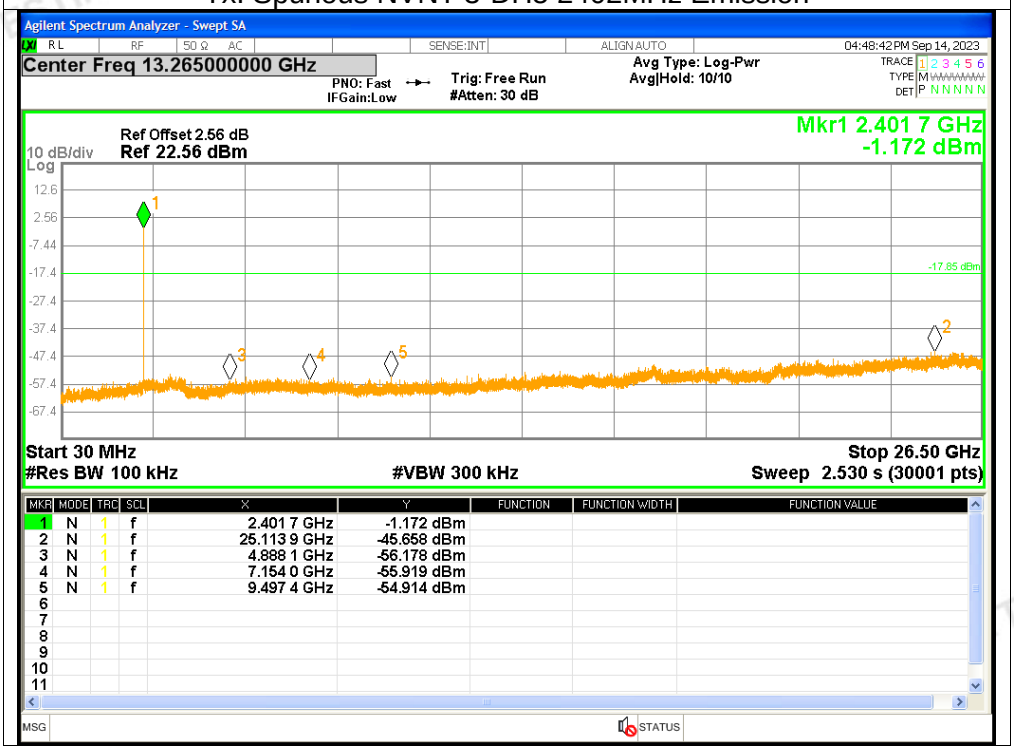



| MKR | MODE | TRC | SCL | X | Y | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE |
|---|---|---|---|---|---|---|---|---|
| 1 | N | 1 | f | 2.480 2 GHz | -1.190 dBm | | | |
| 2 | N | 1 | f | 25.612 4 GHz | -45.155 dBm | | | |
| 3 | N | 1 | f | 4.877 5 GHz | -55.843 dBm | | | |
| 4 | N | 1 | f | 7.375 4 GHz | -56.138 dBm | | | |
| 5 | N | 1 | f | 9.878 6 GHz | -56.448 dBm | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |

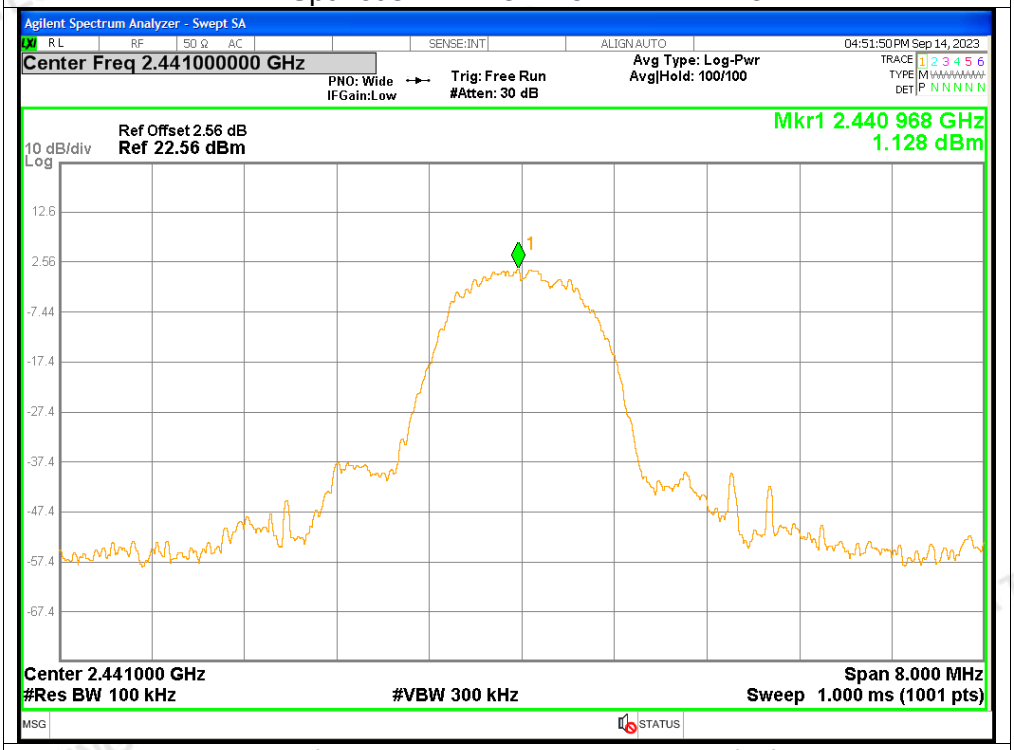
Tx. Spurious NVNT 3-DH5 2402MHz Ref



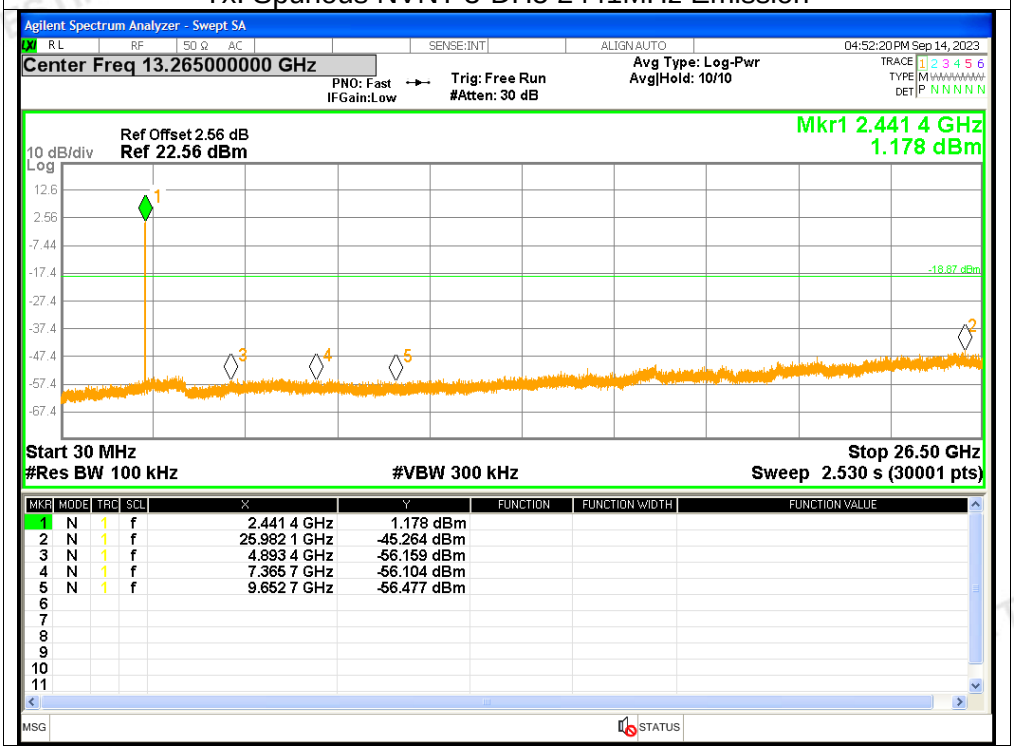

Tx. Spurious NVNT 3-DH5 2402MHz Emission



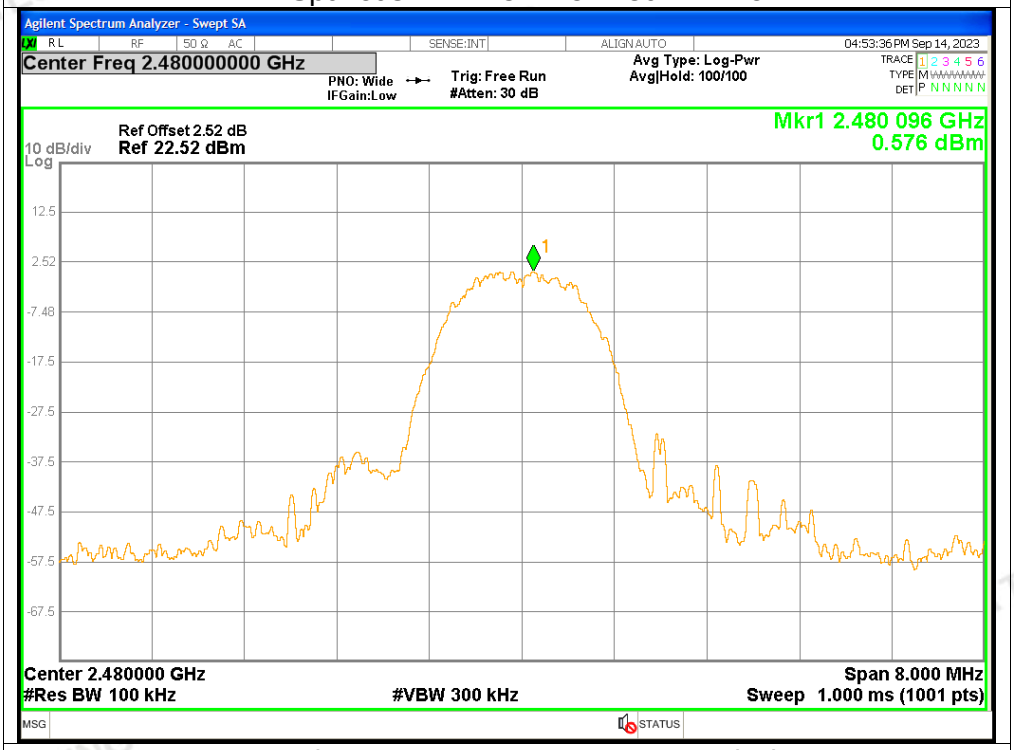
Tx. Spurious NVNT 3-DH5 2441MHz Ref



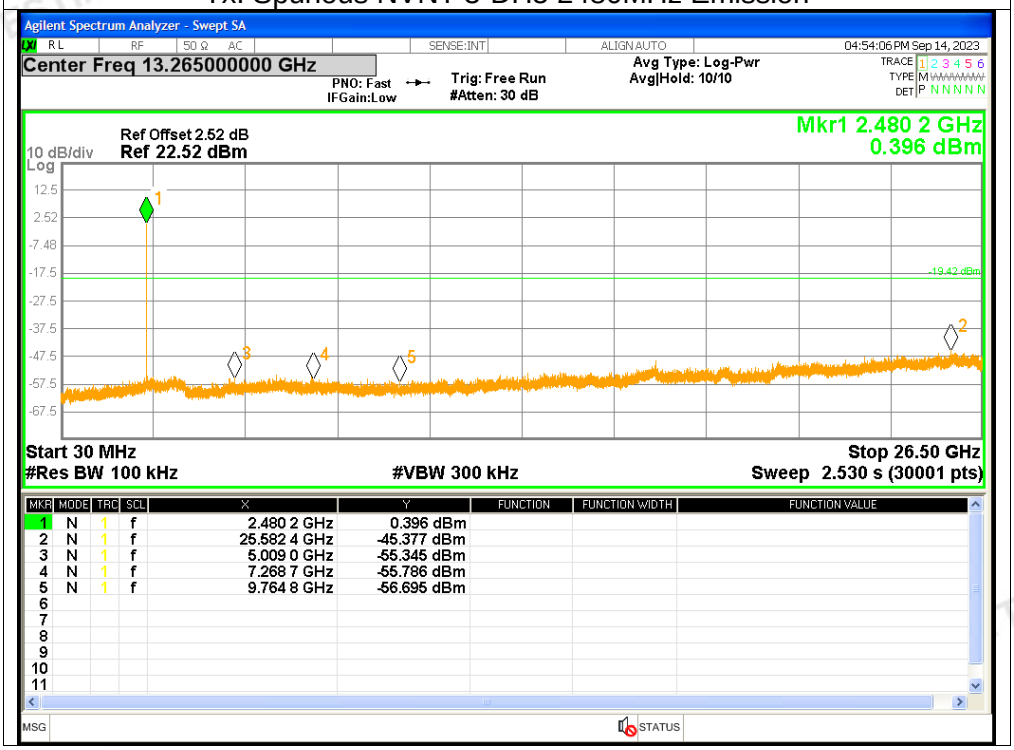

Tx. Spurious NVNT 3-DH5 2441MHz Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ref




Tx. Spurious NVNT 3-DH5 2480MHz Emission




| MKR | MODE | TRC | SCL | X | Y | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE |
|---|---|---|---|---|---|---|---|---|
| 1 | N | 1 | f | 2.480 2 GHz | 0.396 dBm | | | |
| 2 | N | 1 | f | 25.582 4 GHz | -45.377 dBm | | | |
| 3 | N | 1 | f | 5.009 0 GHz | -55.345 dBm | | | |
| 4 | N | 1 | f | 7.268 7 GHz | -55.786 dBm | | | |
| 5 | N | 1 | f | 9.764 8 GHz | -56.695 dBm | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |

## APPENDIX 2-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

※※※※※END OF THE REPORT※※※※※