# Appendix A

## RF Test Data for BT (Conducted Measurement)

**Product Name: Tablet PC**

**Test Model: M10**

**Environmental Conditions**

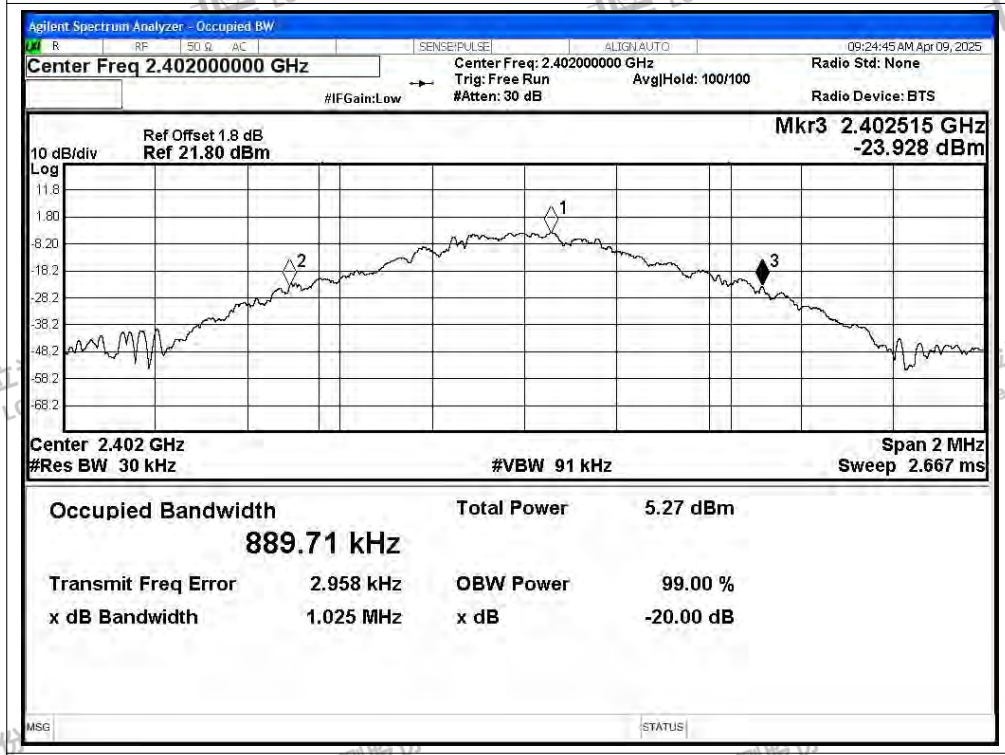
| | |
|---|---|
| Temperature: | 24.3°C |
| Relative Humidity: | 53.2% |
| ATM Pressure: | 100.0 kPa |
| Test Engineer: | Jay Luo |
| Supervised by: | Nick Peng |

# A.1 -20dB Bandwidth

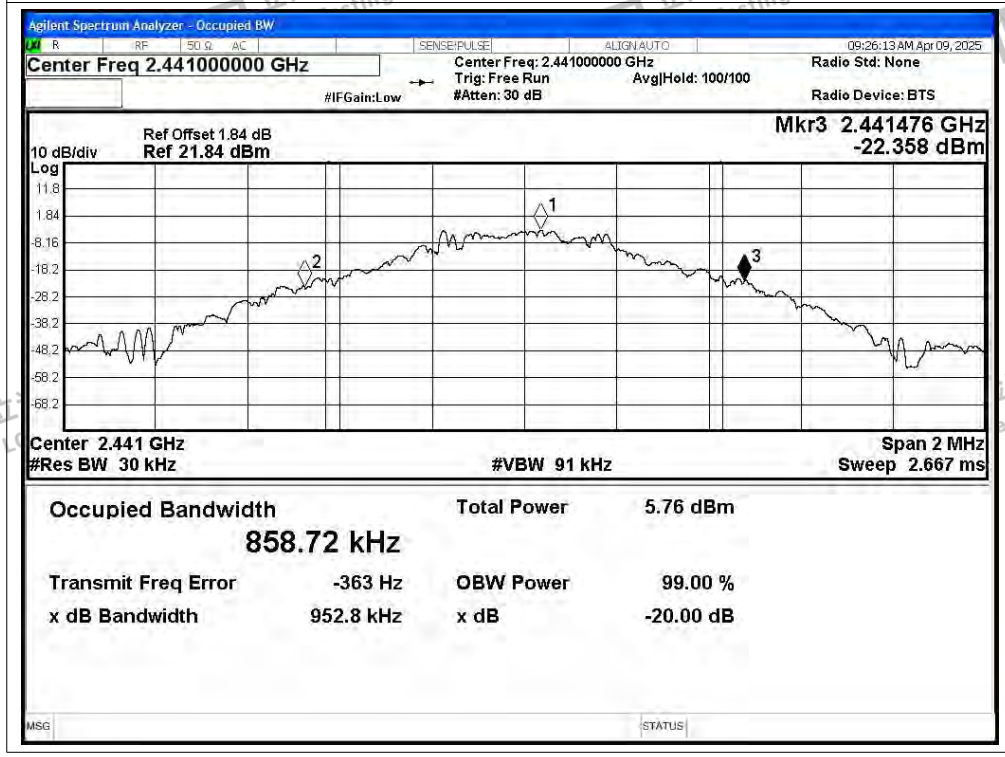
| Condition | Mode | Frequency (MHz) | Antenna | -20 dB Bandwidth (MHz) | Limit -20 dB Bandwidth (MHz) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | 1-DH5 | 2402 | Ant1 | 1.025 | N/A | Pass |
| NVNT | 1-DH5 | 2441 | Ant1 | 0.953 | N/A | Pass |
| NVNT | 1-DH5 | 2480 | Ant1 | 1.005 | N/A | Pass |
| NVNT | 2-DH5 | 2402 | Ant1 | 1.286 | N/A | Pass |
| NVNT | 2-DH5 | 2441 | Ant1 | 1.274 | N/A | Pass |
| NVNT | 2-DH5 | 2480 | Ant1 | 1.282 | N/A | Pass |
| NVNT | 3-DH5 | 2402 | Ant1 | 1.326 | N/A | Pass |
| NVNT | 3-DH5 | 2441 | Ant1 | 1.294 | N/A | Pass |
| NVNT | 3-DH5 | 2480 | Ant1 | 1.284 | N/A | Pass |

Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

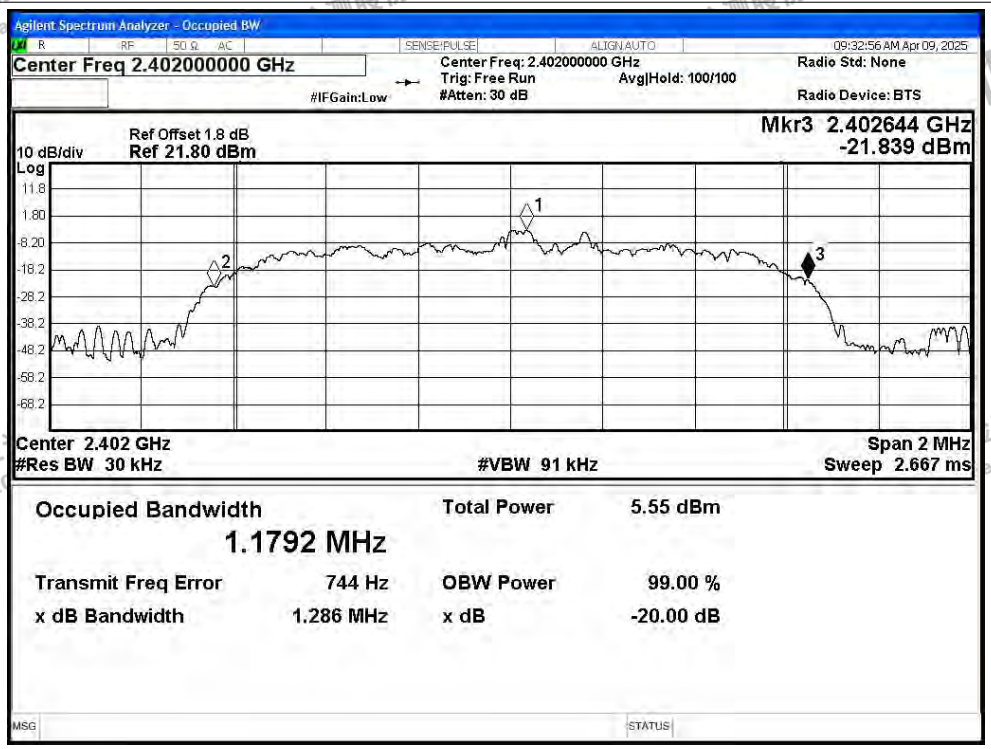



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

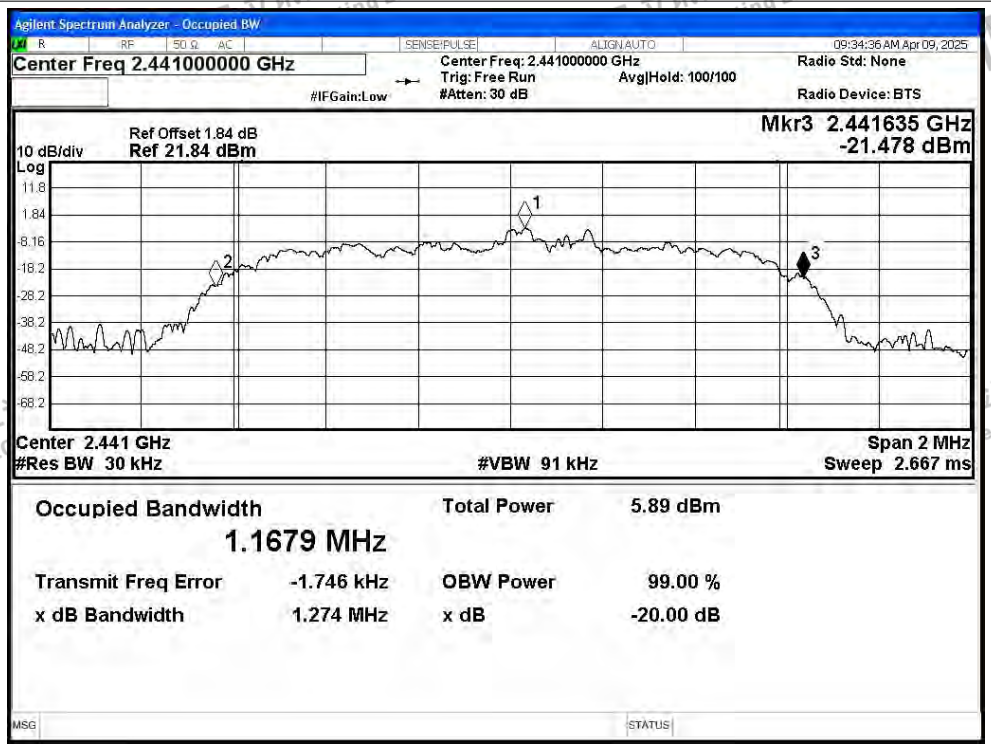


-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

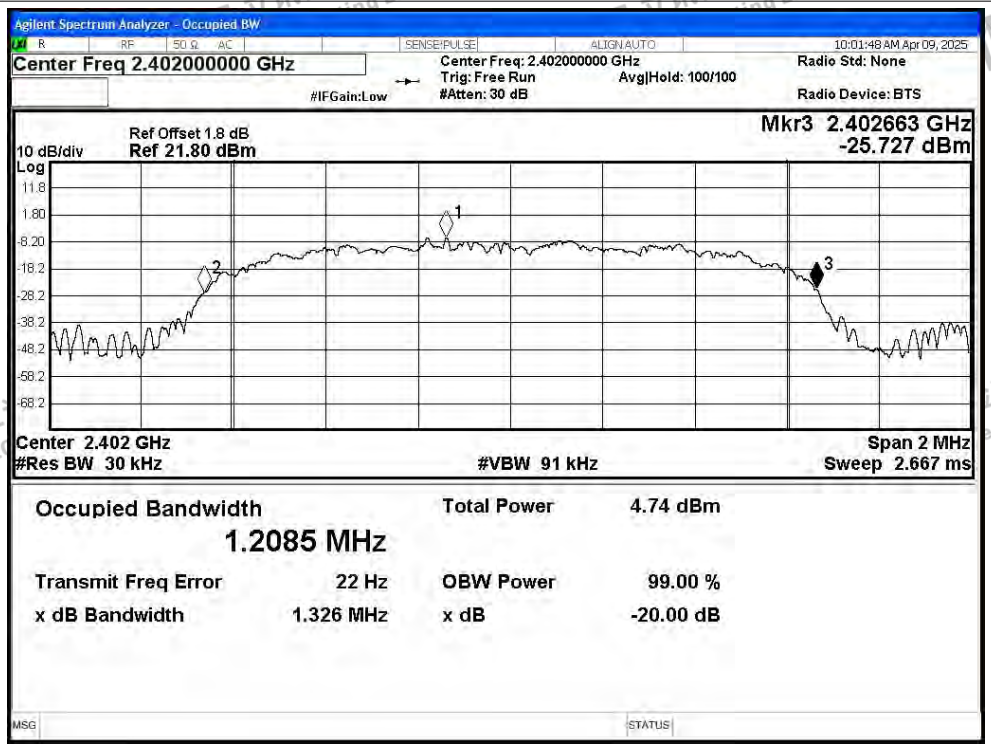


-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

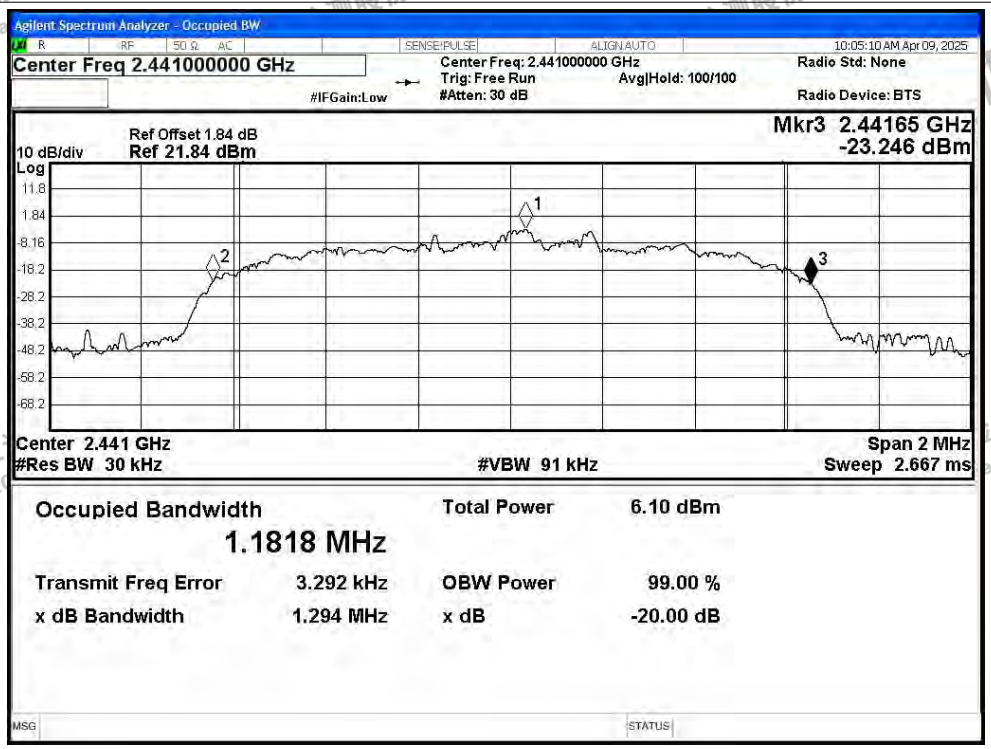



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

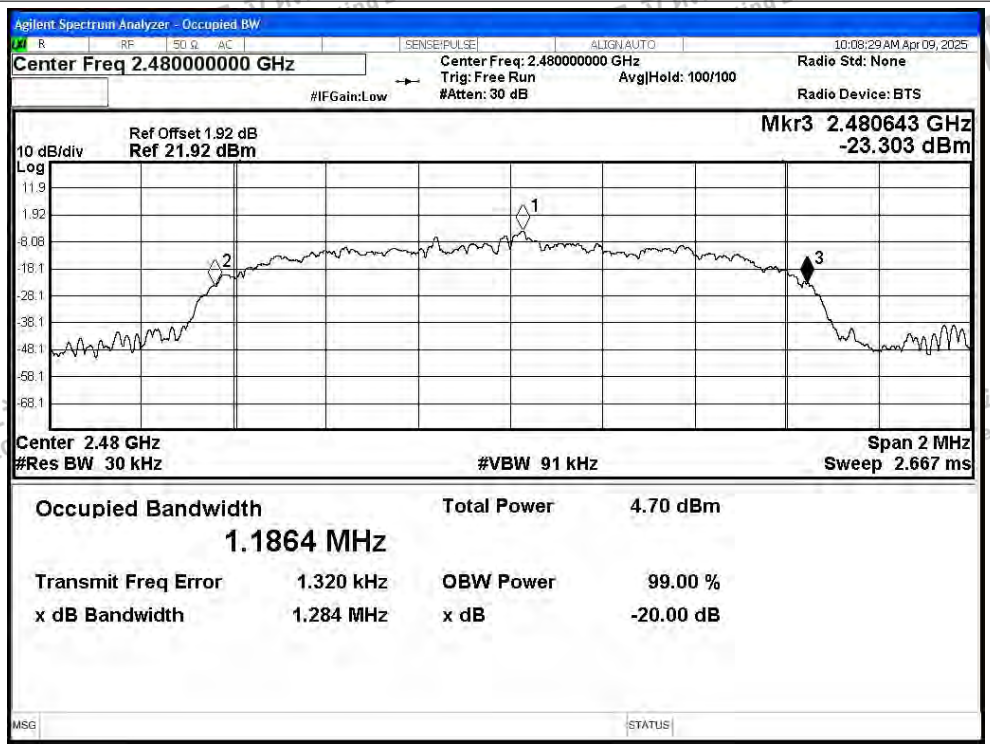
-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1




-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1

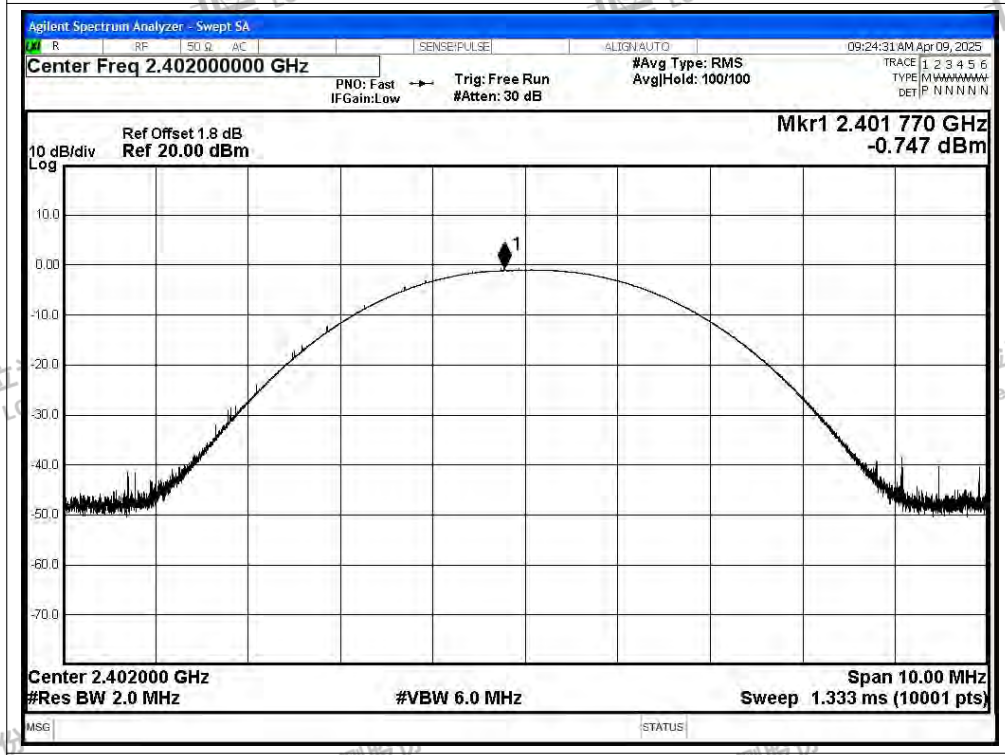


# A.2 Maximum Peak Conducted Output Power

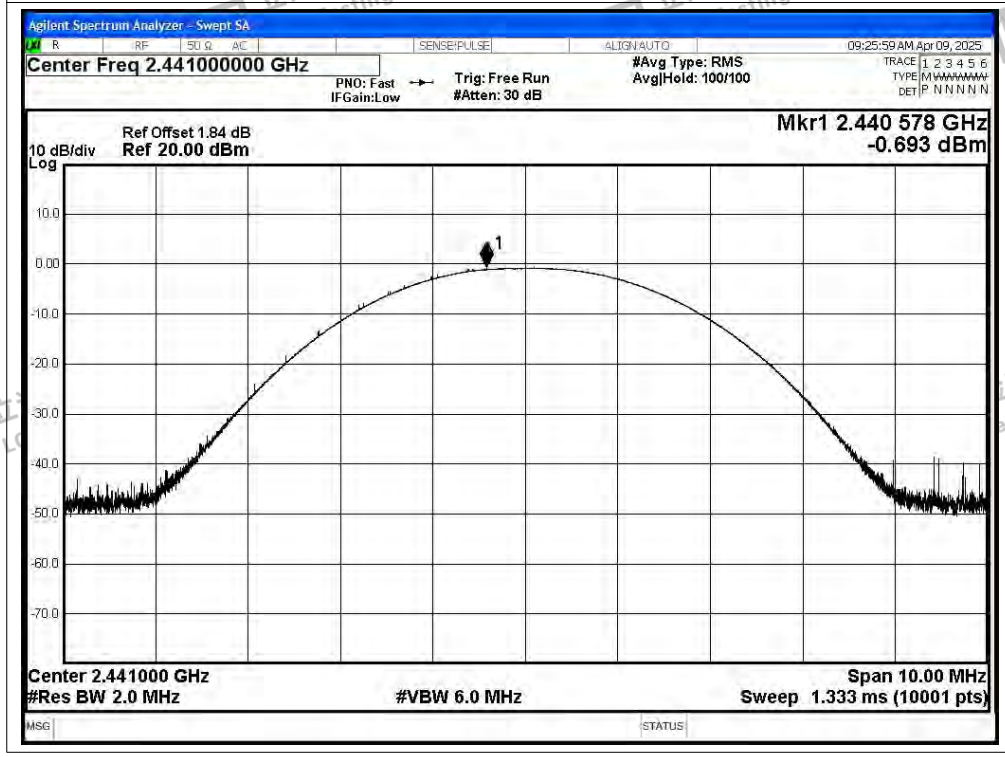
| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | 1-DH5 | 2402 | Ant1 | -0.75 | 21 | Pass |
| NVNT | 1-DH5 | 2441 | Ant1 | -0.69 | 21 | Pass |
| NVNT | 1-DH5 | 2480 | Ant1 | -1.5 | 21 | Pass |
| NVNT | 2-DH5 | 2402 | Ant1 | 0.98 | 21 | Pass |
| NVNT | 2-DH5 | 2441 | Ant1 | 1.29 | 21 | Pass |
| NVNT | 2-DH5 | 2480 | Ant1 | 0.25 | 21 | Pass |
| NVNT | 3-DH5 | 2402 | Ant1 | 1.49 | 21 | Pass |
| NVNT | 3-DH5 | 2441 | Ant1 | 1.71 | 21 | Pass |
| NVNT | 3-DH5 | 2480 | Ant1 | 0.63 | 21 | Pass |

Test Graphs

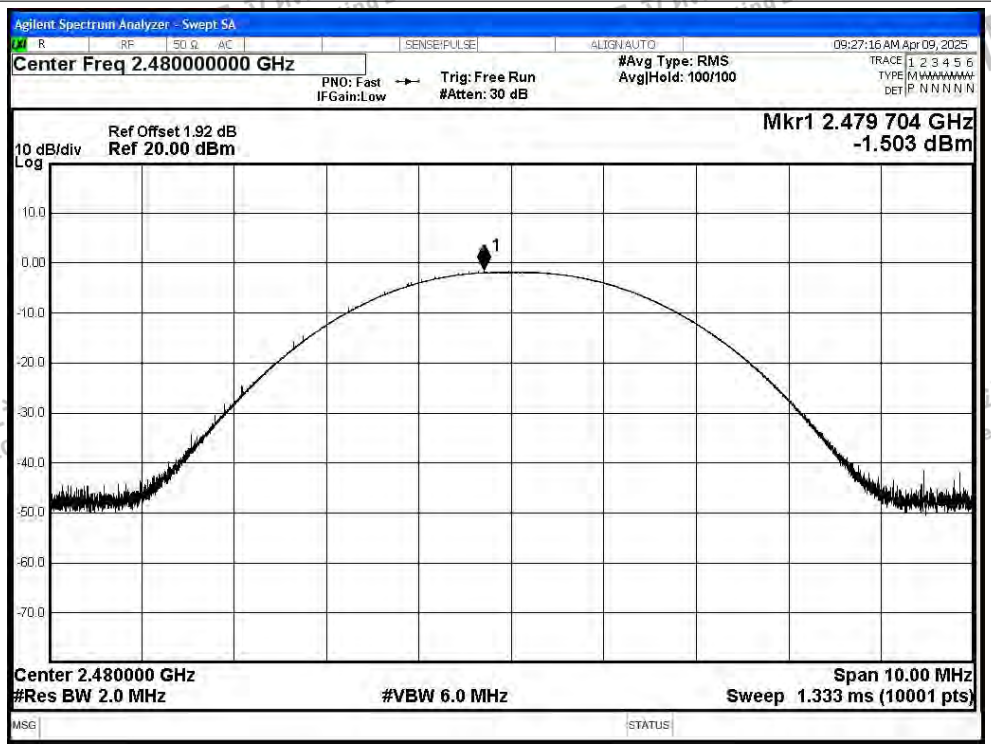
Power NVNT 1-DH5 2402MHz Ant1



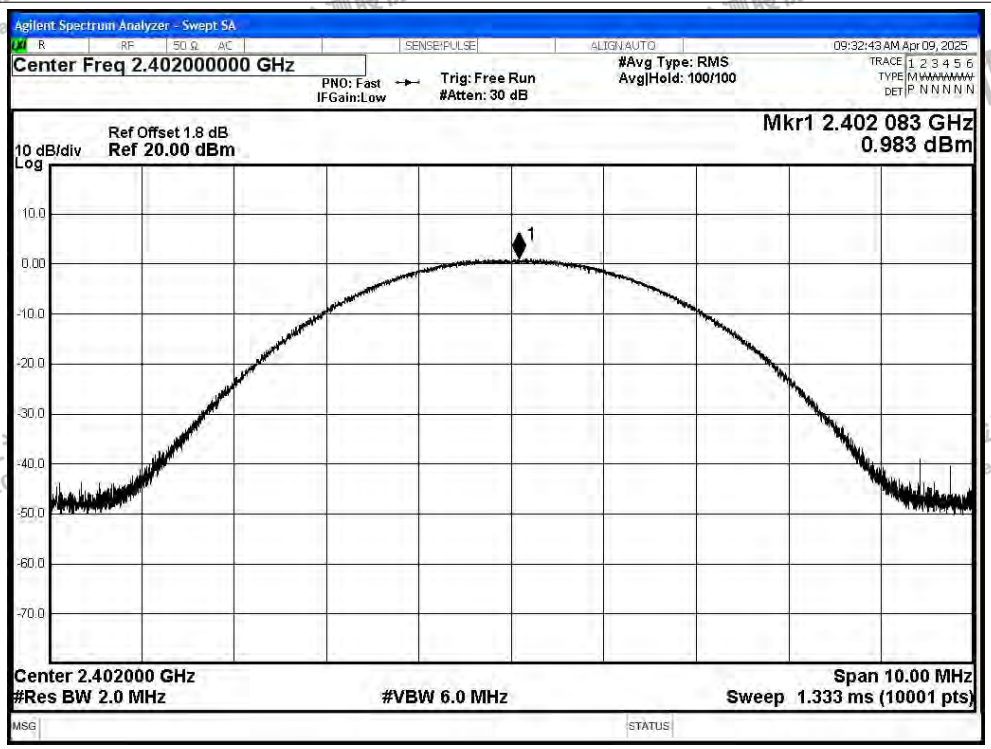

Power NVNT 1-DH5 2441MHz Ant1



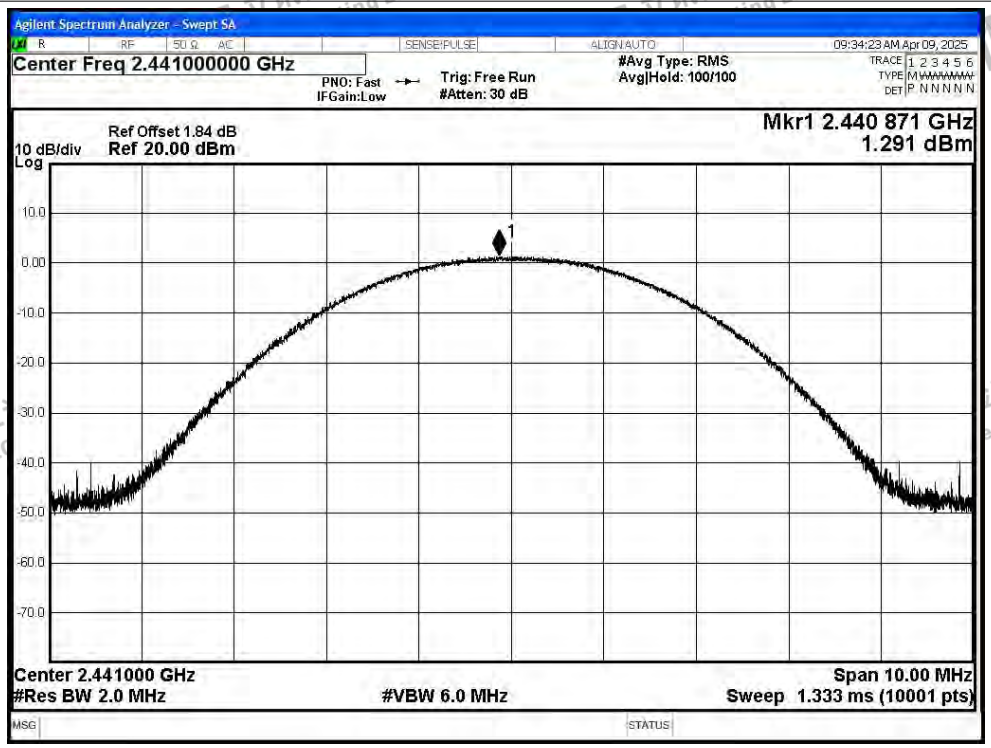
Power NVNT 1-DH5 2480MHz Ant1



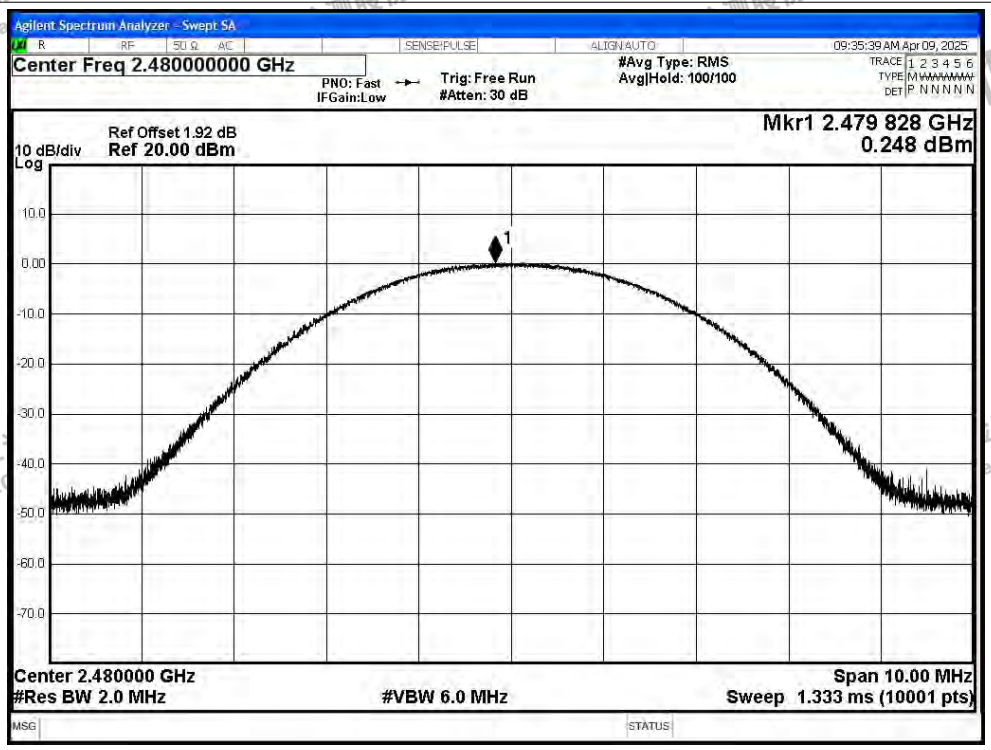

Power NVNT 2-DH5 2402MHz Ant1



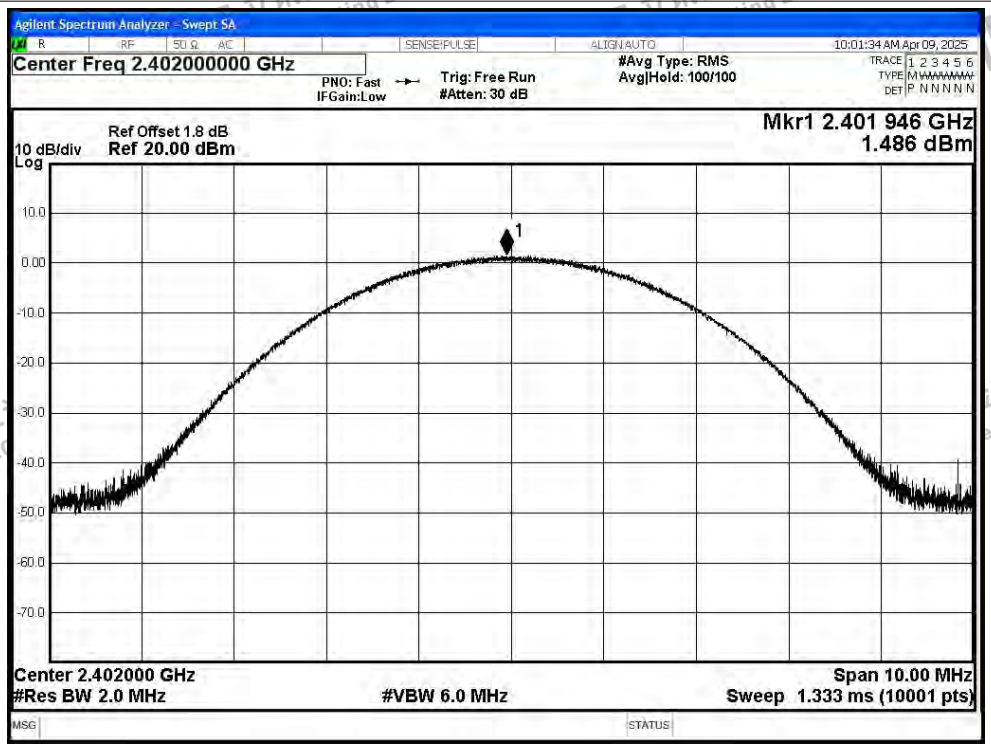
Power NVNT 2-DH5 2441MHz Ant1



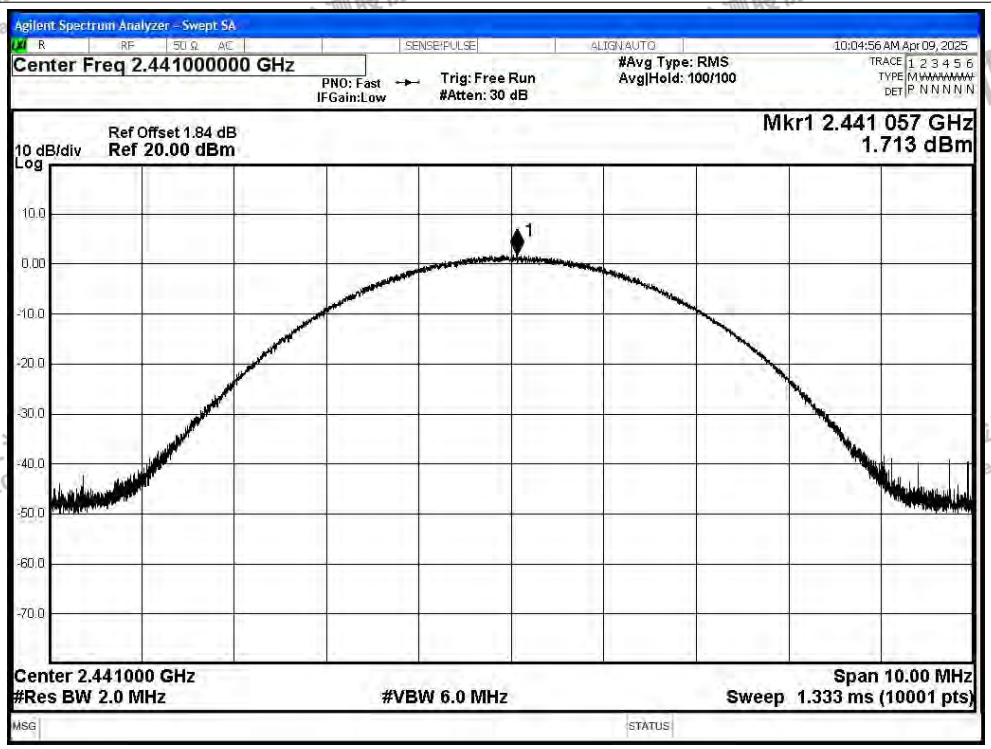

Power NVNT 2-DH5 2480MHz Ant1



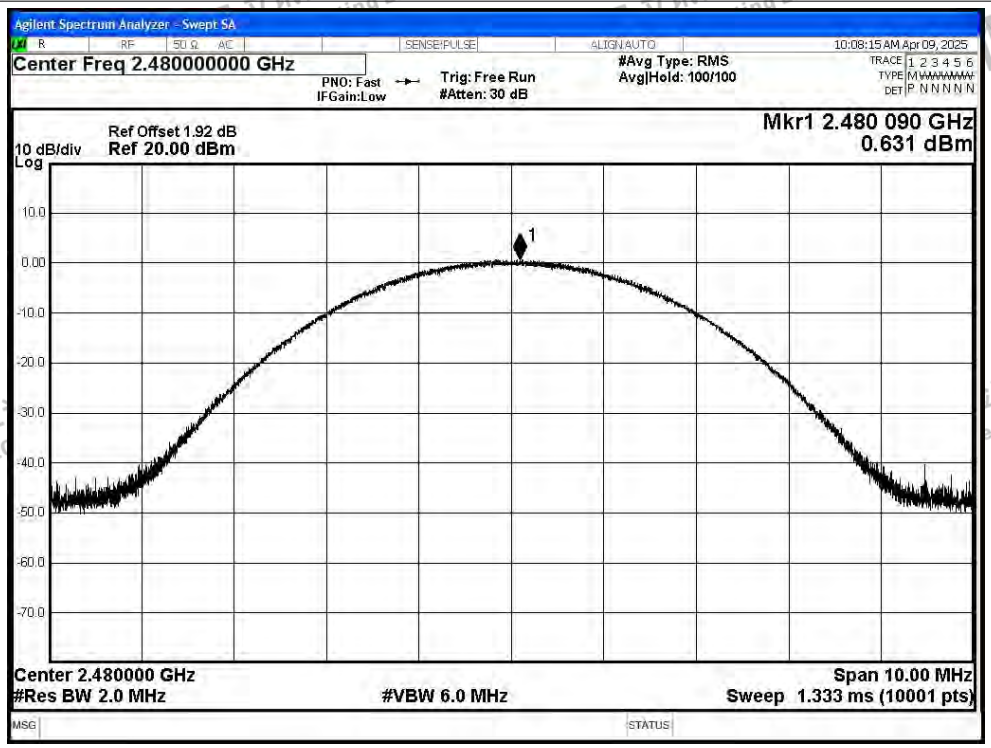
Power NVNT 3-DH5 2402MHz Ant1




Power NVNT 3-DH5 2441MHz Ant1



Power NVNT 3-DH5 2480MHz Ant1

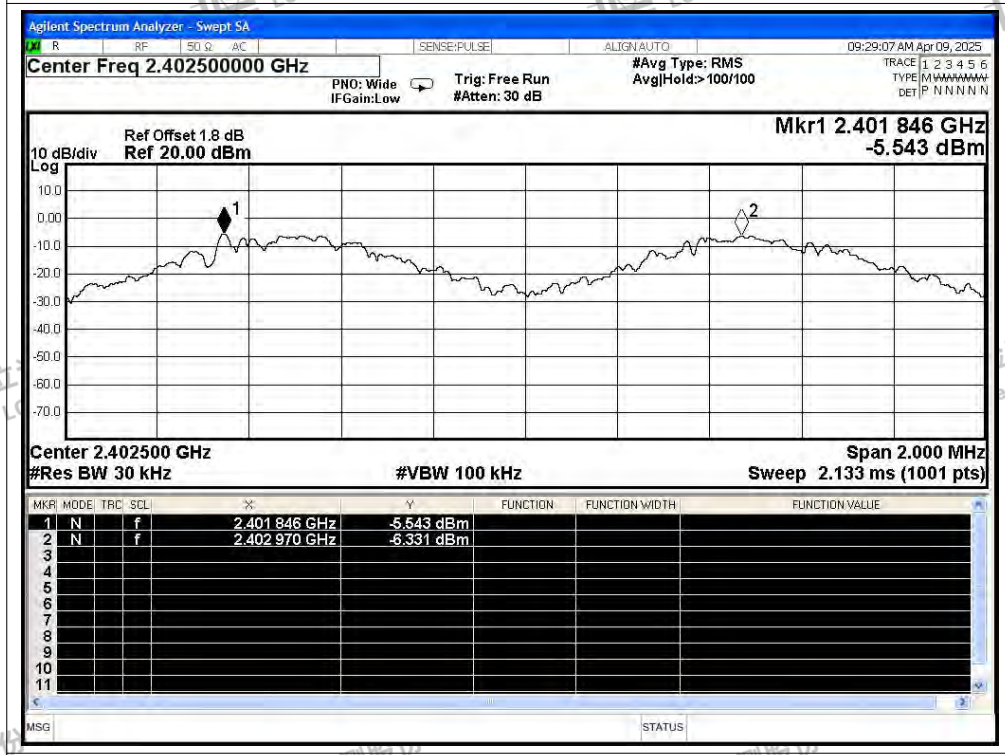


# A.3 Carrier Frequencies Separation

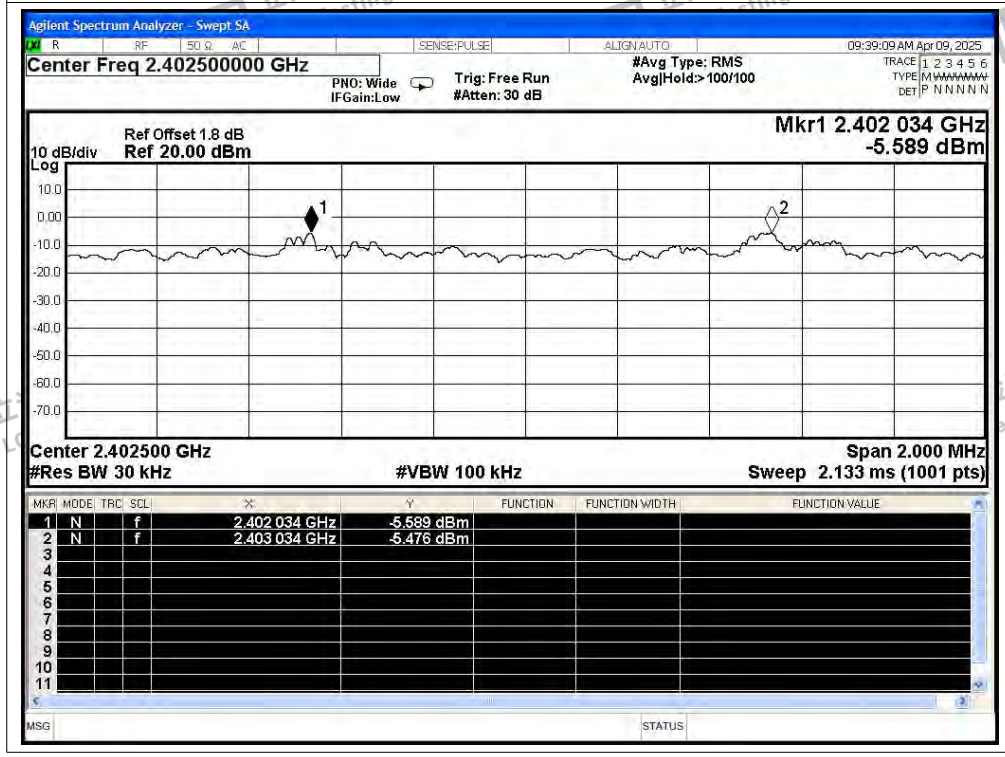
| Condition | Mode | Antenna | Hopping Freq1 (MHz) | Hopping Freq2 (MHz) | HFS (MHz) | Limit (MHz) | Verdict |
|---|---|---|---|---|---|---|---|
| NVNT | 1-DH5 | Ant1 | 2401.846 | 2402.97 | 1.124 | 0.683 | Pass |
| NVNT | 2-DH5 | Ant1 | 2402.034 | 2403.034 | 1 | 0.857 | Pass |
| NVNT | 3-DH5 | Ant1 | 2402.018 | 2403.038 | 1.02 | 0.884 | Pass |

Test Graphs

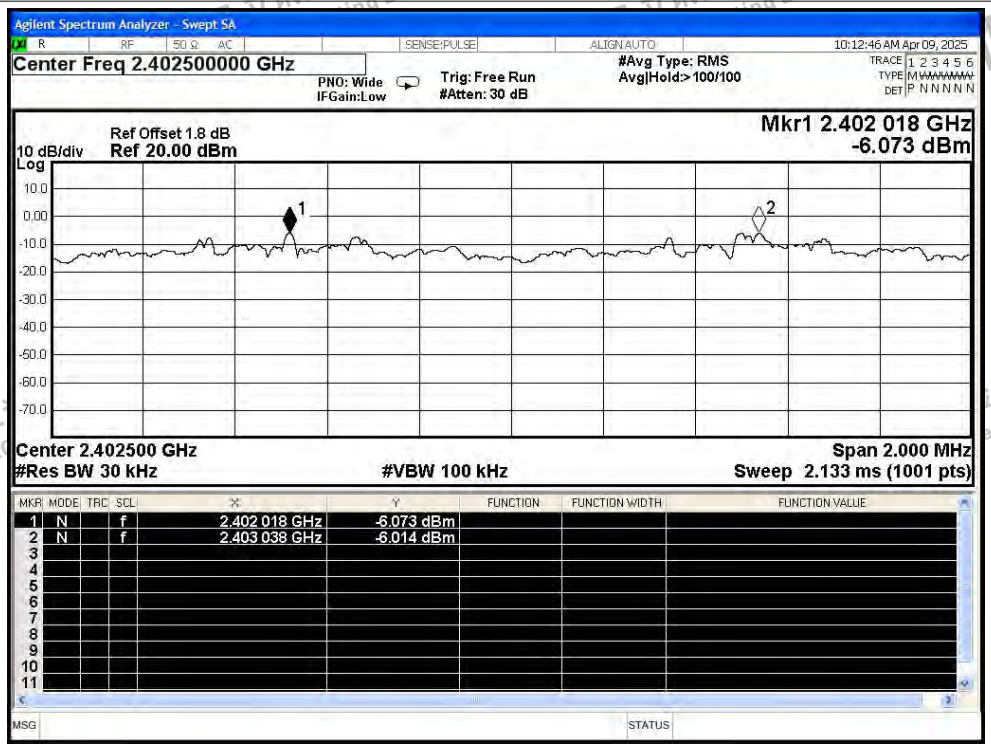
CFS NVNT 1-DH5 2402MHz Ant1




CFS NVNT 2-DH5 2402MHz Ant1



CFS NVNT 3-DH5 2402MHz Ant1

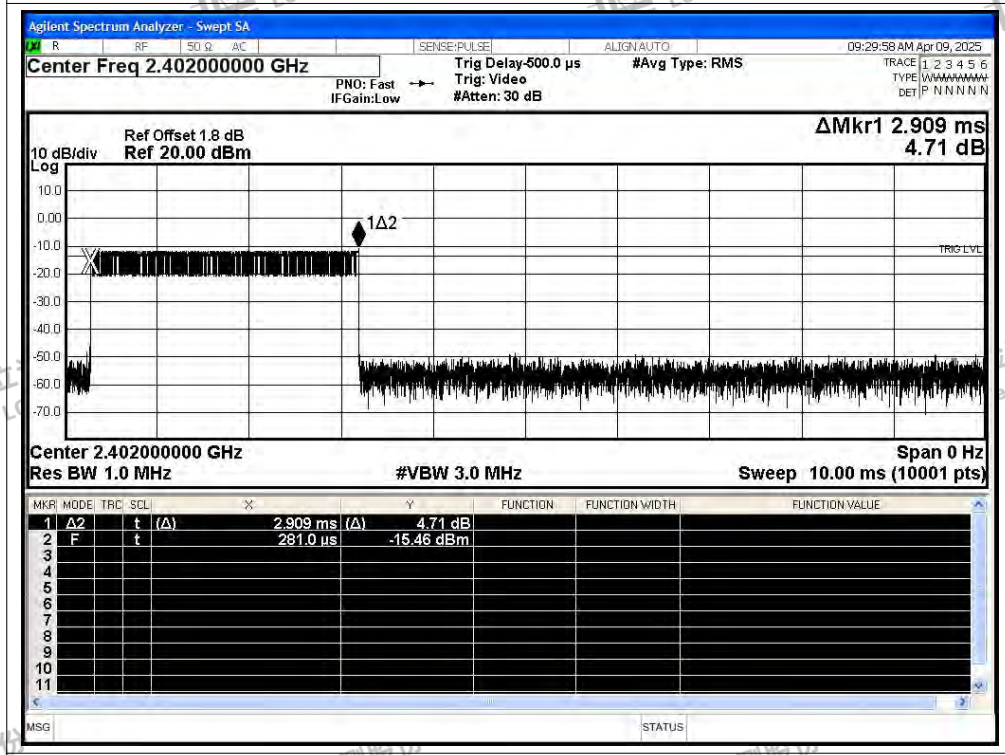


# A.4 Dwell Time

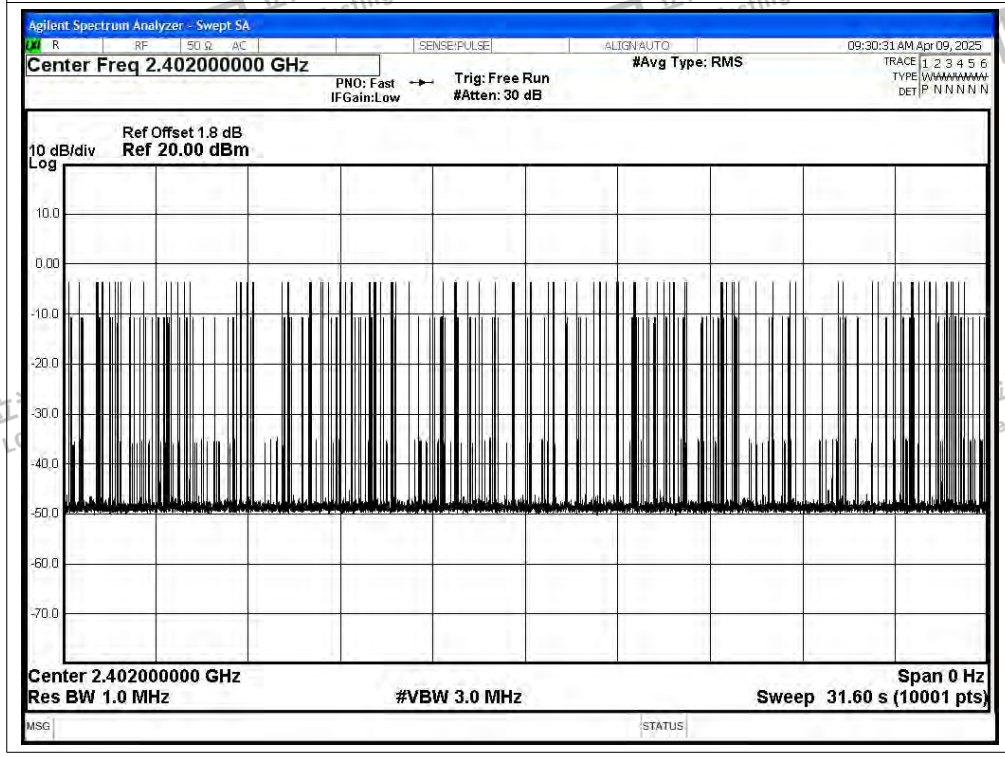
| Condition | Mode | Frequency (MHz) | Antenna | Pulse Time (ms) | Total Dwell Time (ms) | Burst Count | Period Time (ms) | Limit (ms) | Verdict |
|---|---|---|---|---|---|---|---|---|---|
| NVNT | 1-DH5 | 2402 | Ant1 | 2.909 | 293.809 | 101 | 31600 | 400 | Pass |
| NVNT | 2-DH5 | 2402 | Ant1 | 2.898 | 298.494 | 103 | 31600 | 400 | Pass |
| NVNT | 3-DH5 | 2402 | Ant1 | 2.897 | 321.567 | 111 | 31600 | 400 | Pass |

Test Graphs

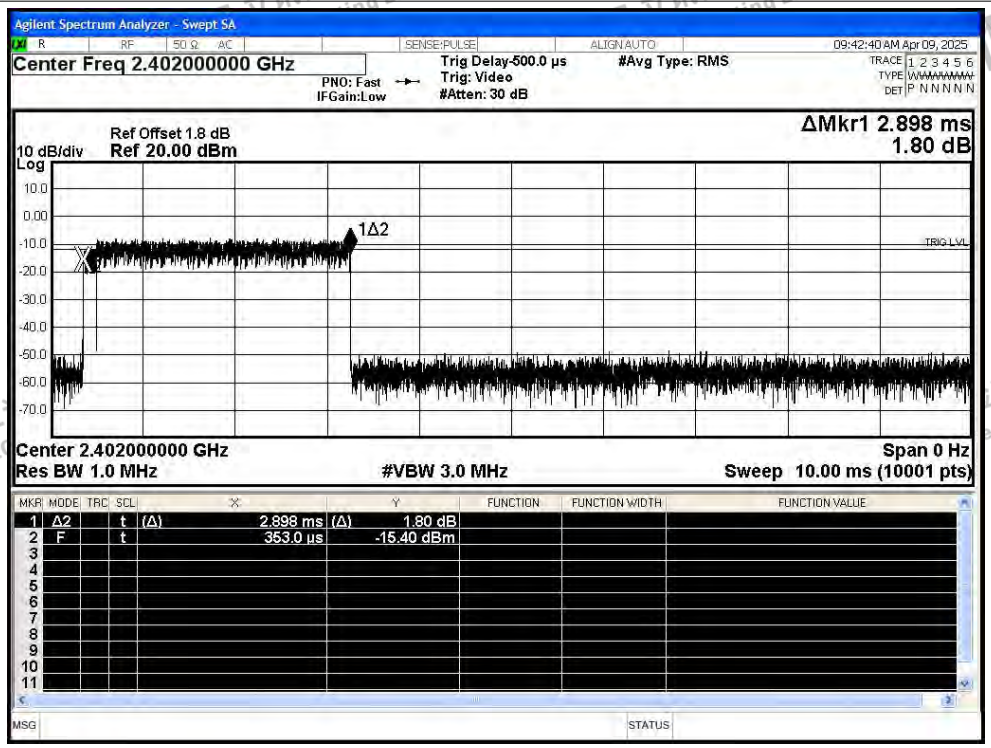
Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



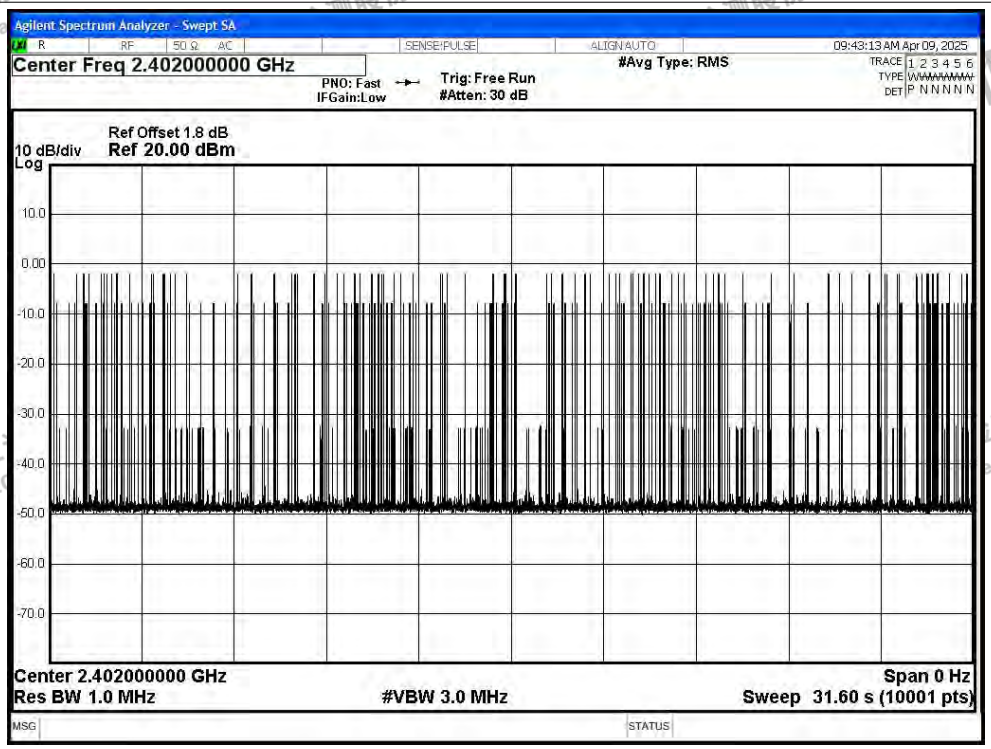

Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



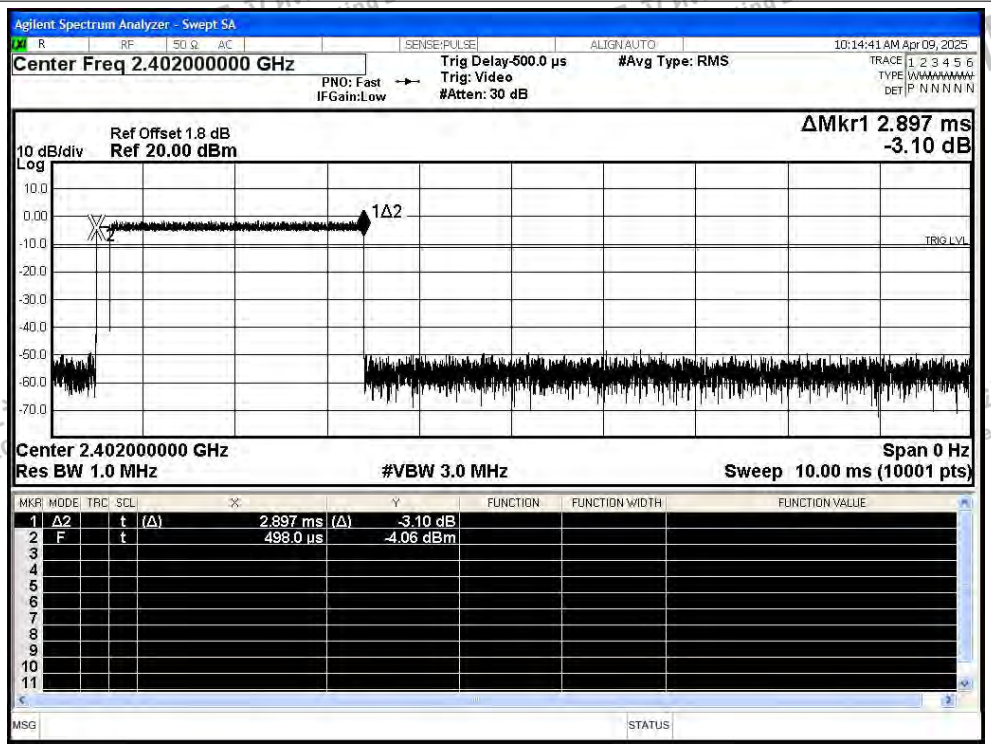
Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



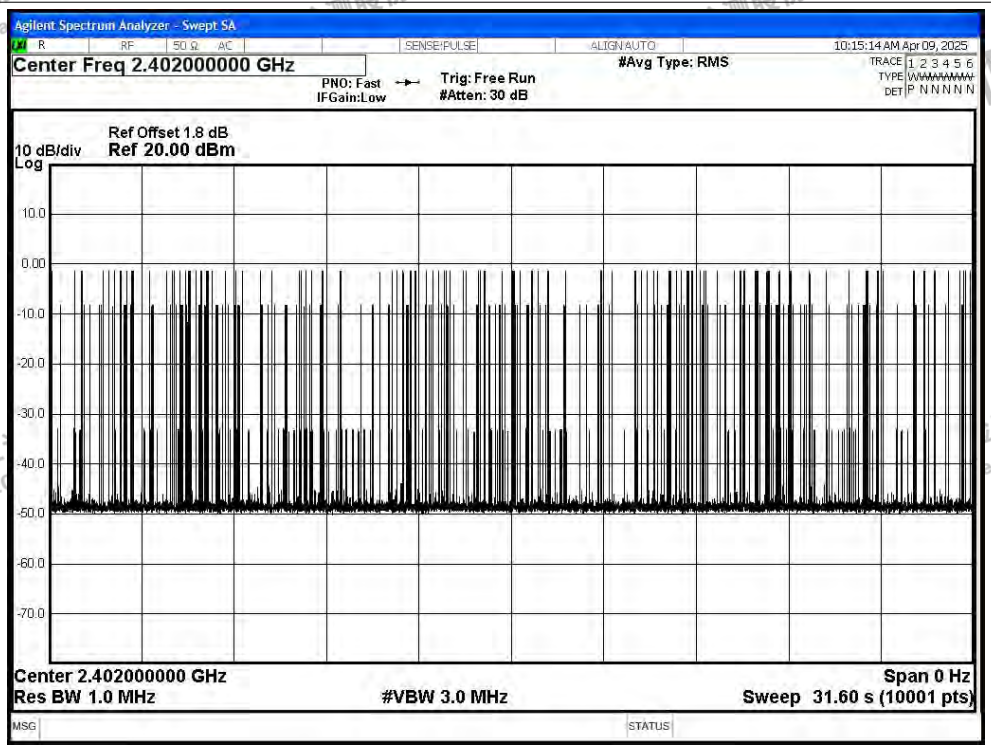

Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2402MHz Ant1 One Burst




Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated

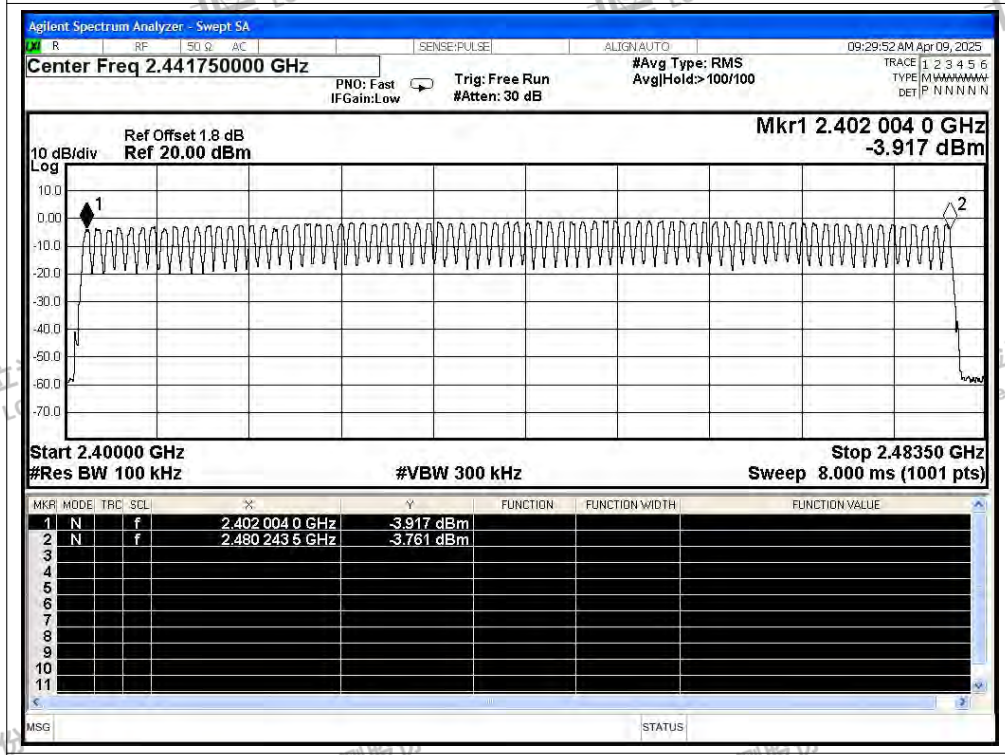


# A.5 Number of Hopping Channel

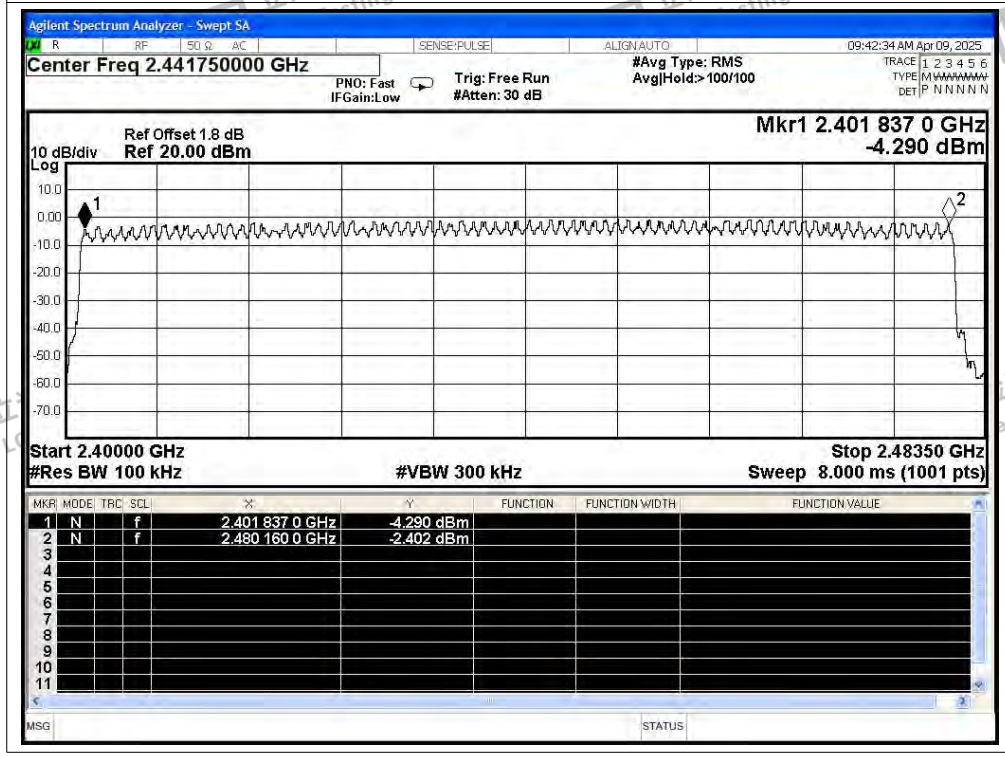
| Condition | Mode | Antenna | Hopping Number | Limit | Verdict |
|---|---|---|---|---|---|
| NVNT | 1-DH5 | Ant1 | 79 | 15 | Pass |
| NVNT | 2-DH5 | Ant1 | 79 | 15 | Pass |
| NVNT | 3-DH5 | Ant1 | 79 | 15 | Pass |

Test Graphs

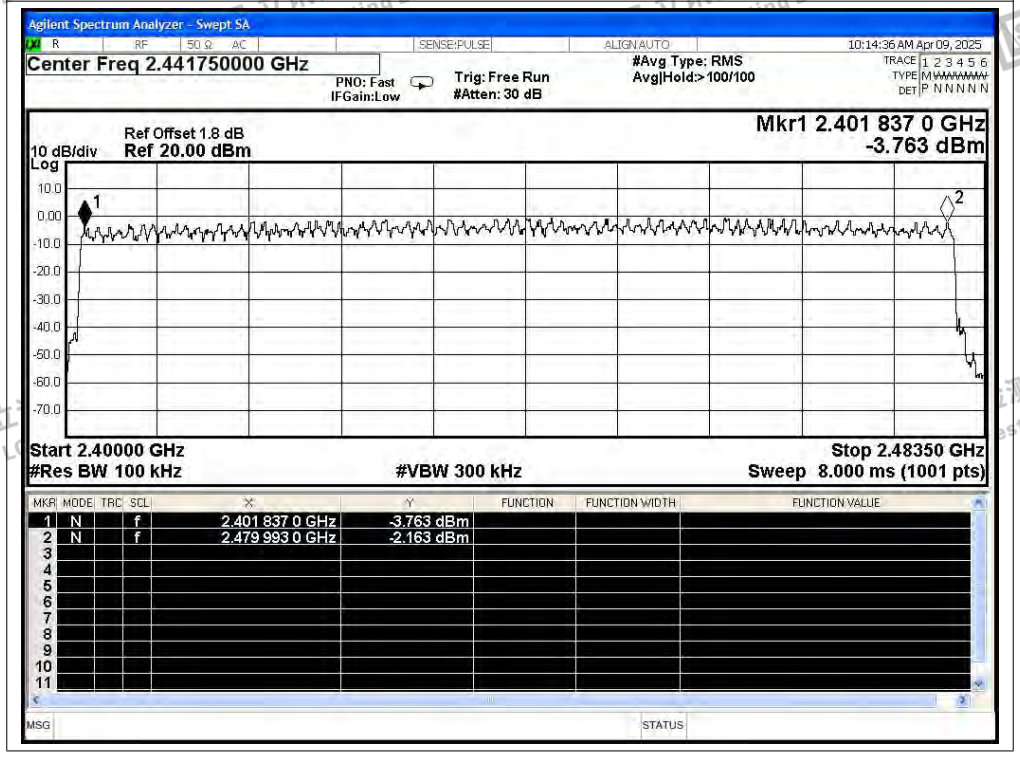
Hopping No. NVNT 1-DH5 2402MHz Ant1




Hopping No. NVNT 2-DH5 2402MHz Ant1



Hopping No. NVNT 3-DH5 2402MHz Ant1

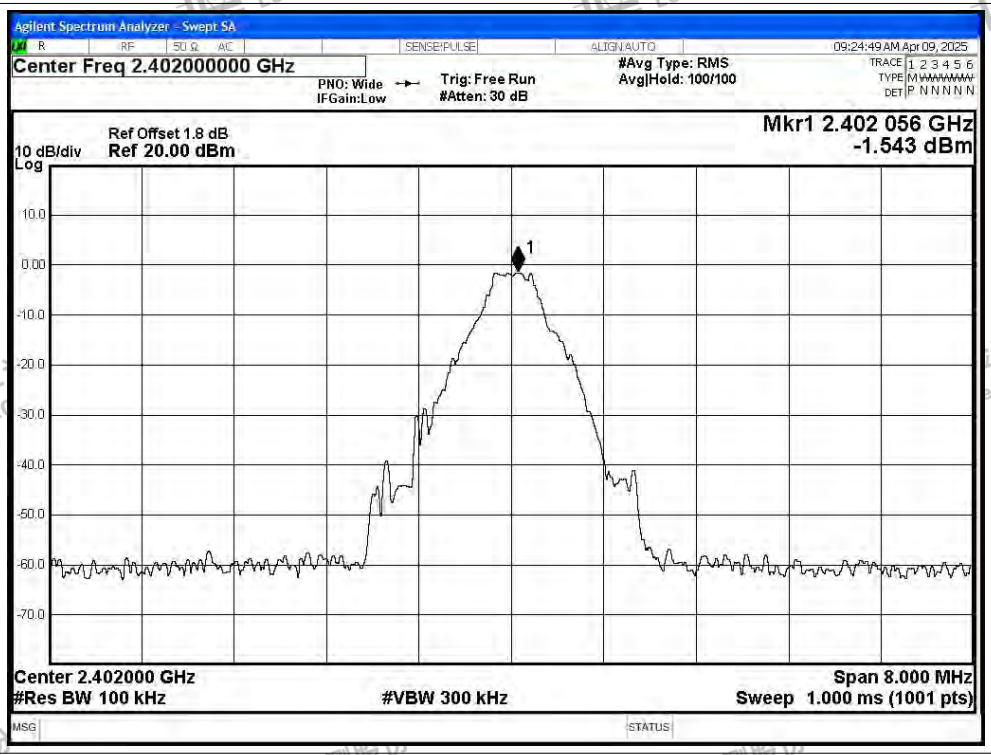


## A.6 Band Edge

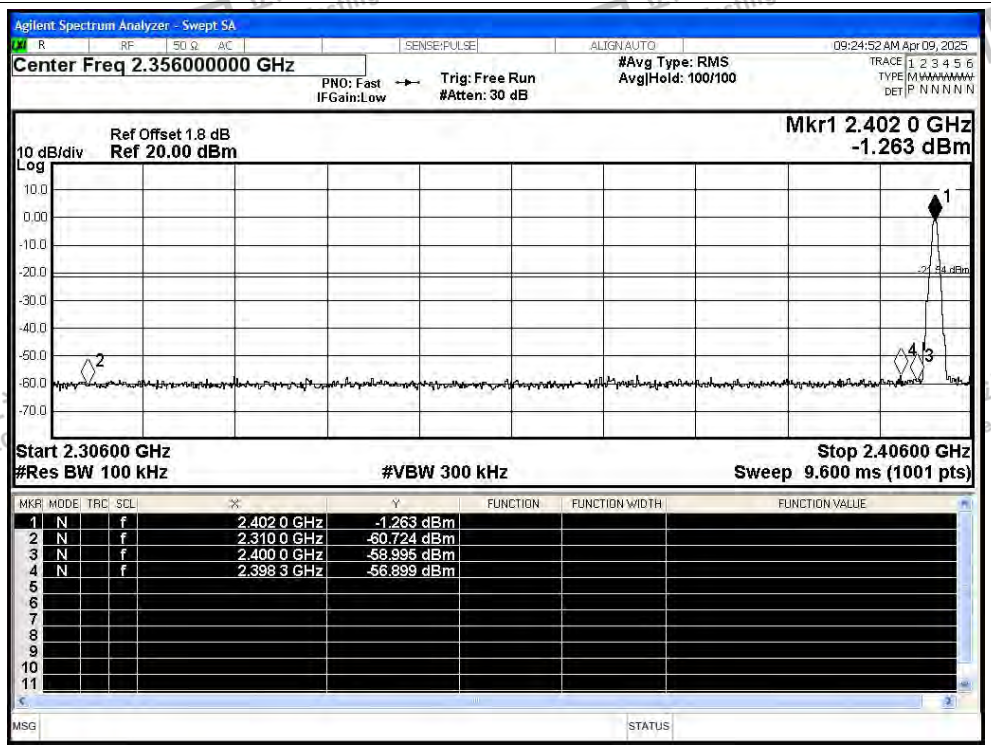
| Condition | Mode | Frequency (MHz) | Antenna | Hopping Mode | Max Value (dBc) | Limit (dBc) | Verdict |
|---|---|---|---|---|---|---|---|
| NVNT | 1-DH5 | 2402 | Ant1 | No-Hopping | -55.36 | -20 | Pass |
| NVNT | 1-DH5 | 2480 | Ant1 | No-Hopping | -54.5 | -20 | Pass |
| NVNT | 2-DH5 | 2402 | Ant1 | No-Hopping | -51.32 | -20 | Pass |
| NVNT | 2-DH5 | 2480 | Ant1 | No-Hopping | -53.15 | -20 | Pass |
| NVNT | 3-DH5 | 2402 | Ant1 | No-Hopping | -51.2 | -20 | Pass |
| NVNT | 3-DH5 | 2480 | Ant1 | No-Hopping | -53.79 | -20 | Pass |

Test Graphs

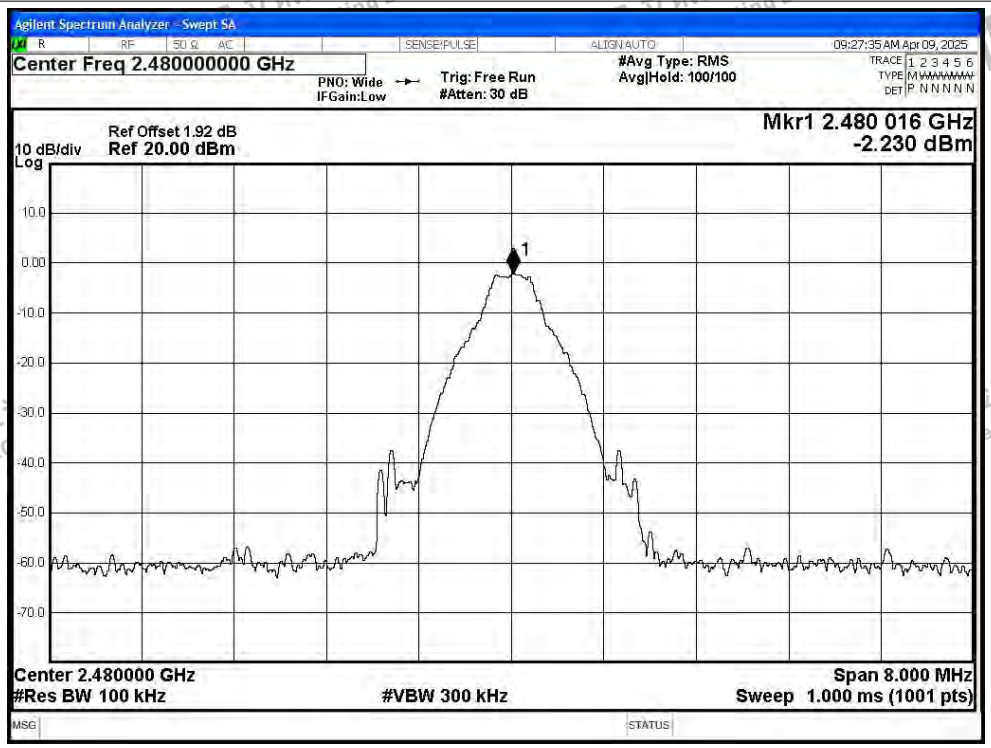
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



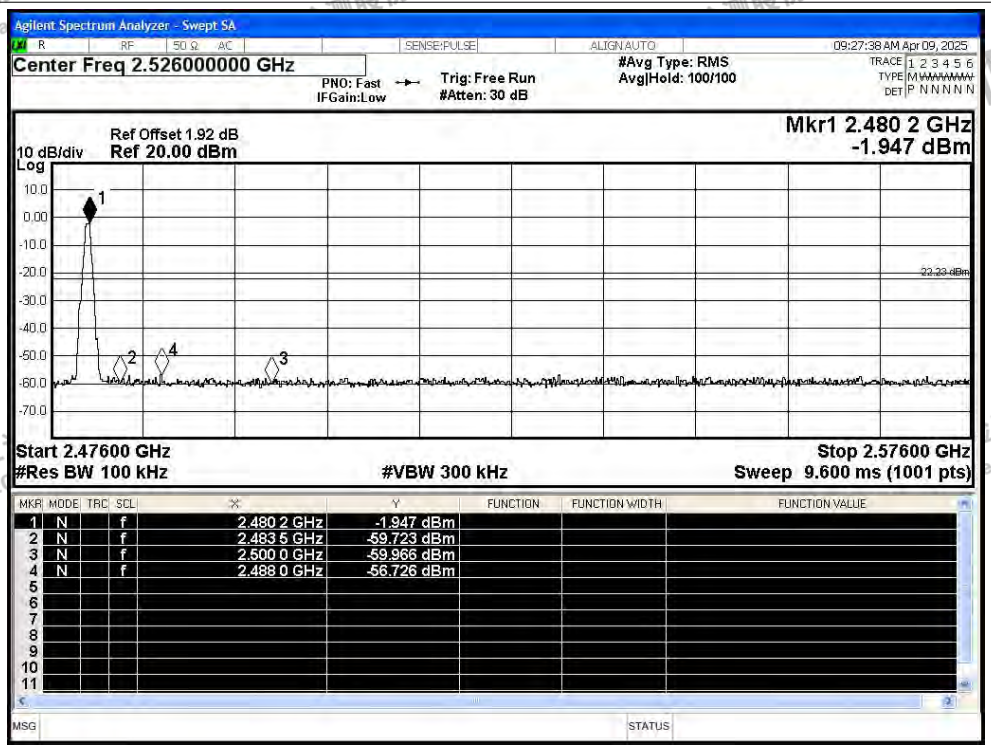

Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



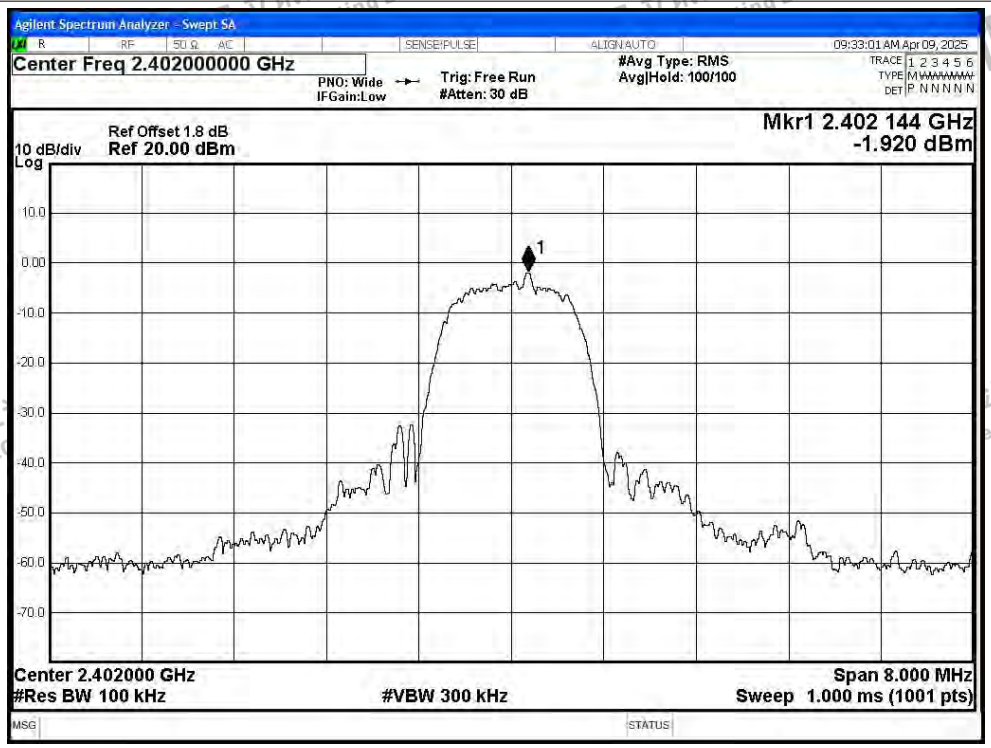
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



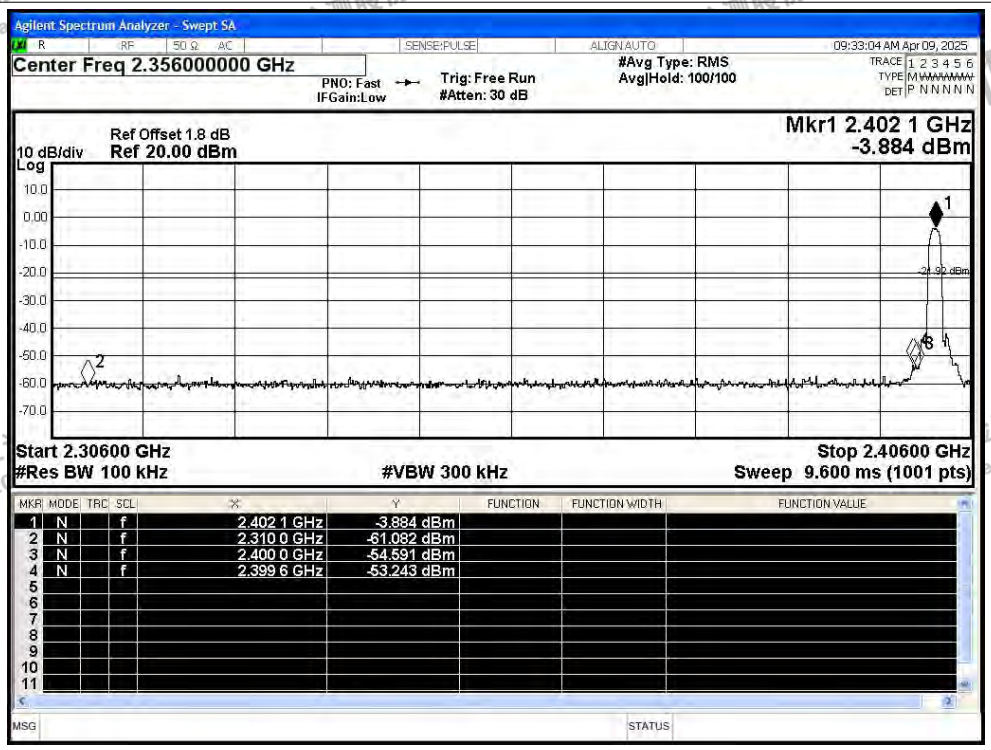

Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



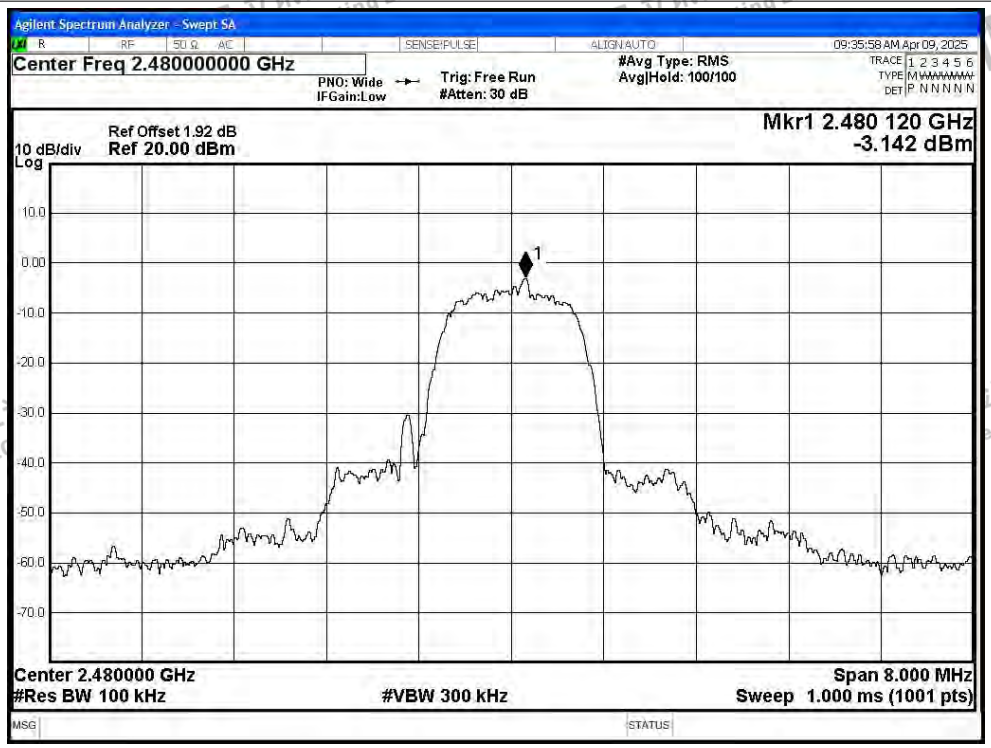
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



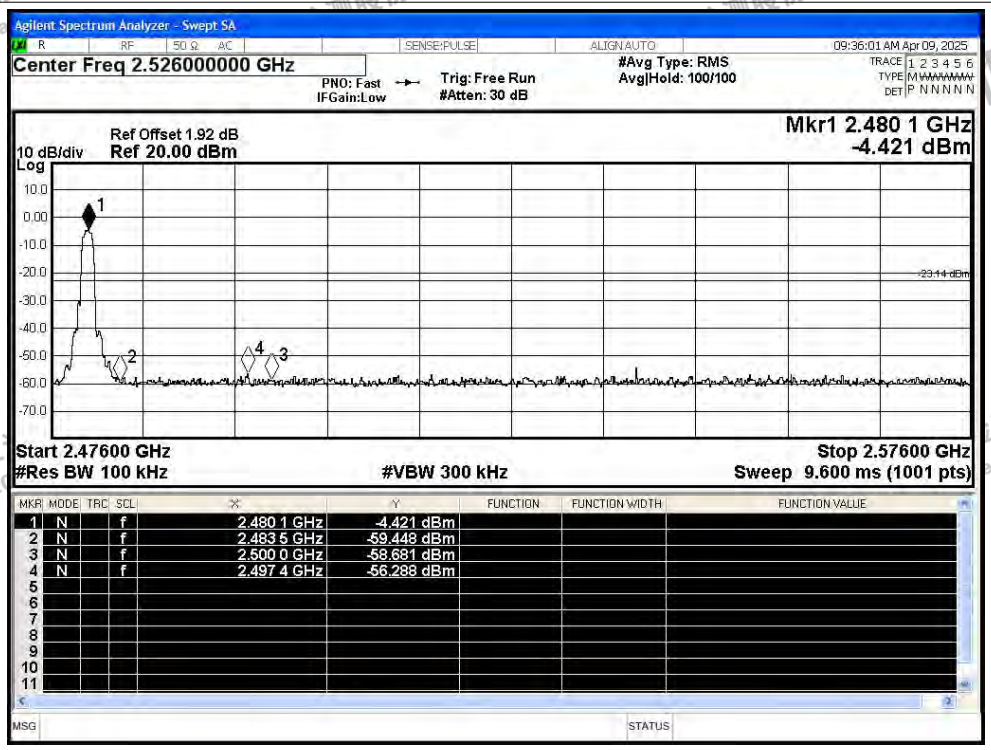

Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



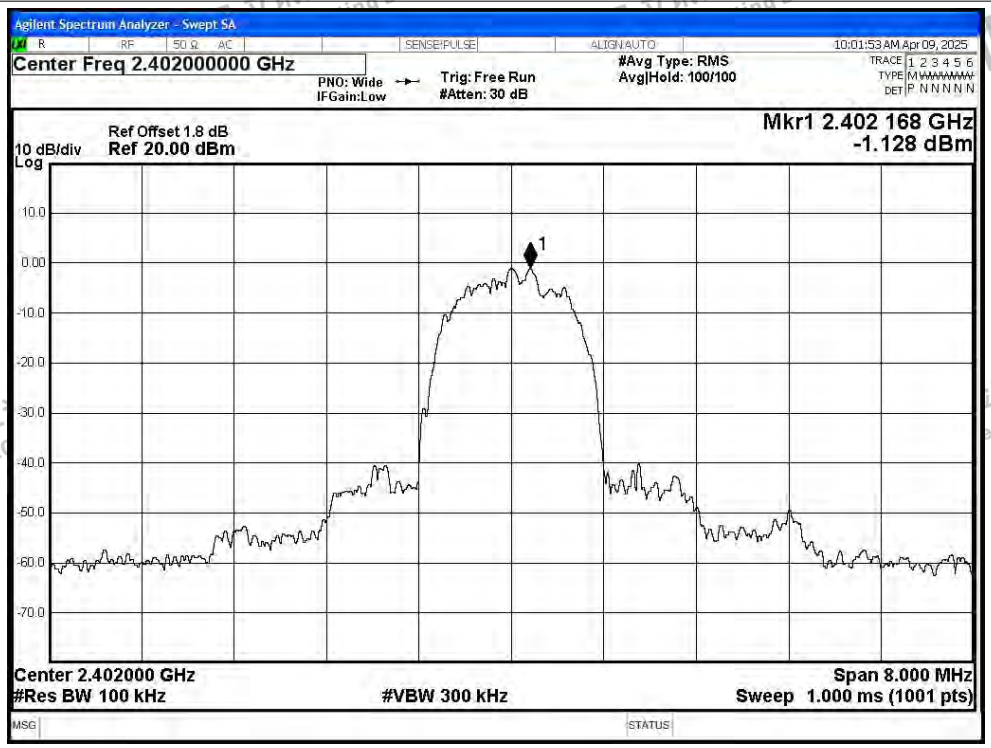
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



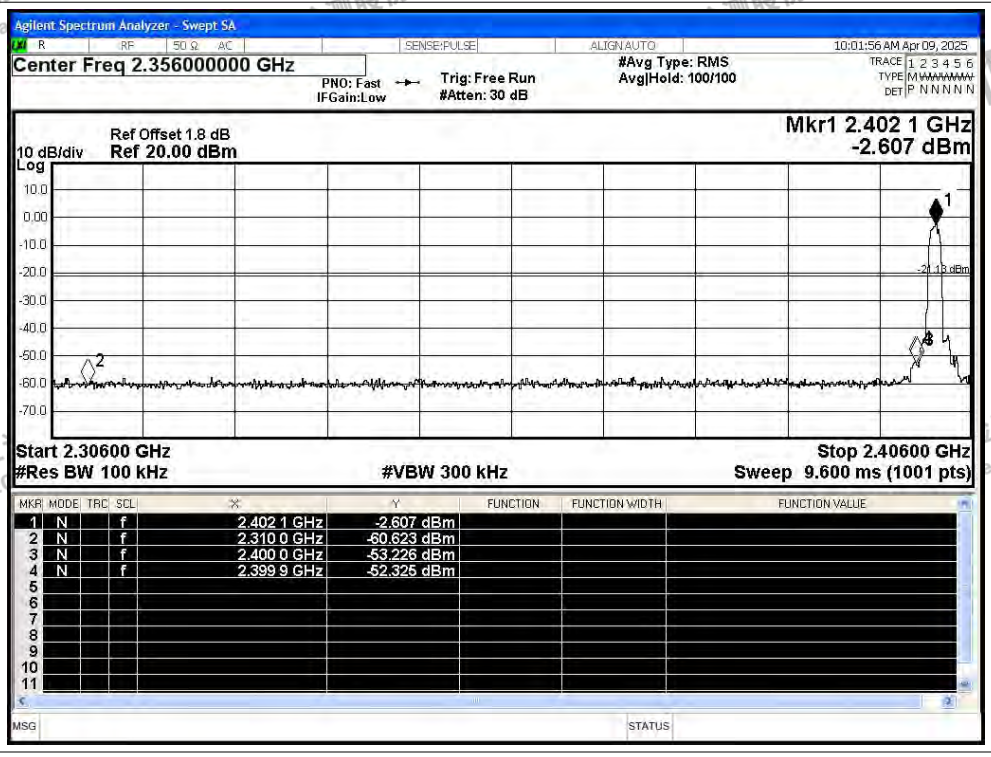

Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



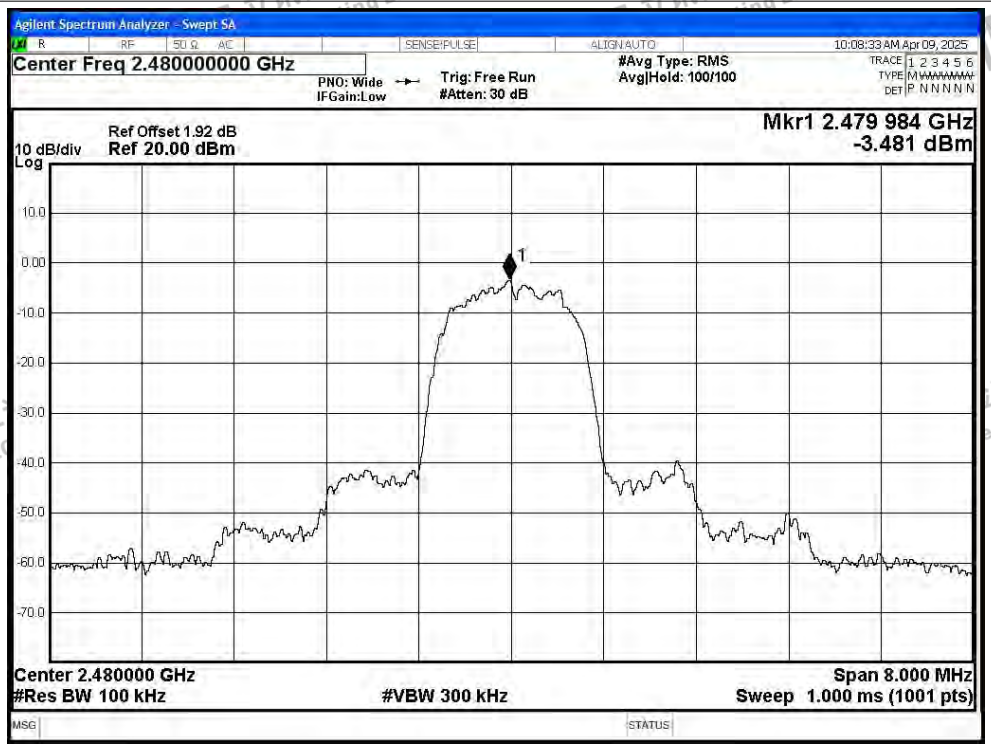
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



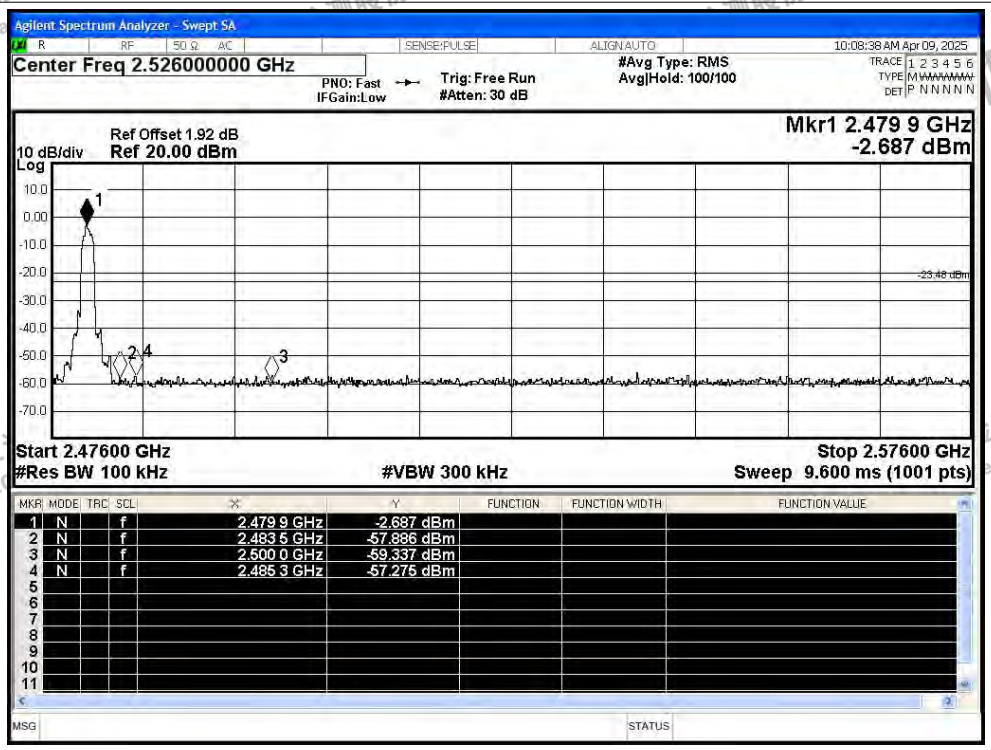

Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



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




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

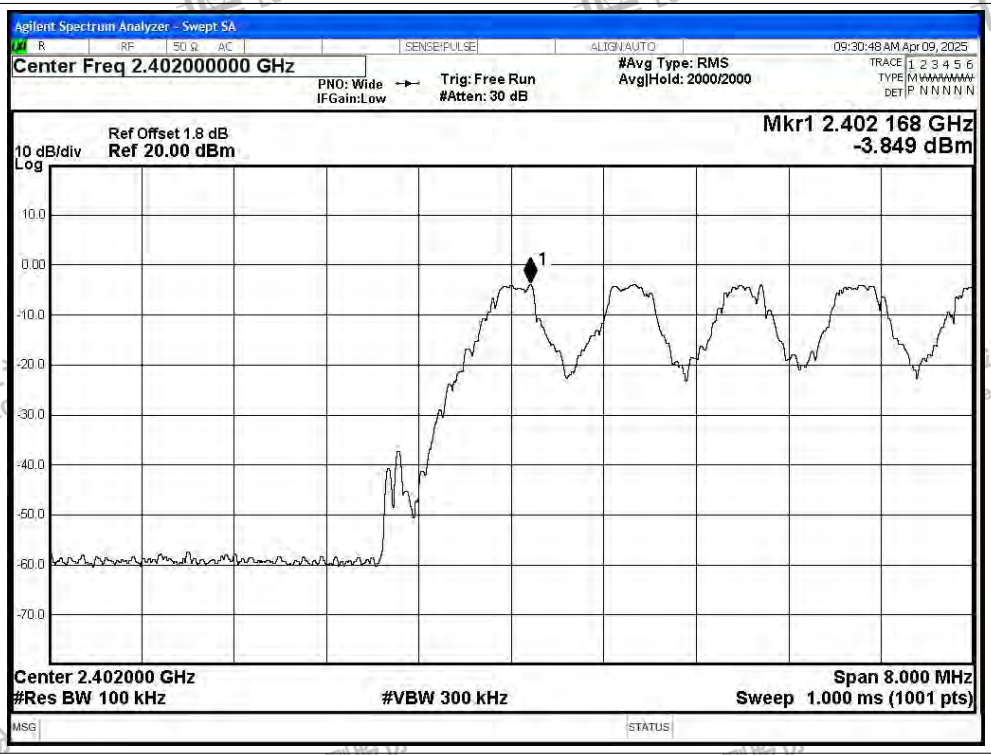


## (Hopping)

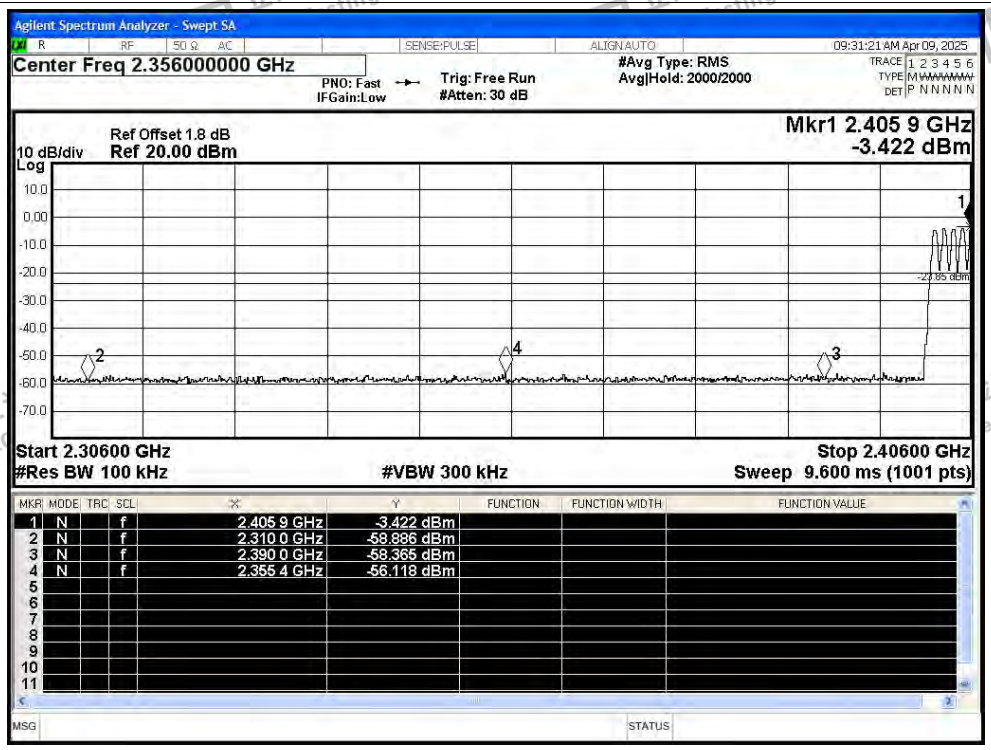
| Condition | Mode | Frequency (MHz) | Antenna | Hopping Mode | Max Value (dBc) | Limit (dBc) | Verdict |
|---|---|---|---|---|---|---|---|
| NVNT | 1-DH5 | 2402 | Ant1 | Hopping | -52.27 | -20 | Pass |
| NVNT | 1-DH5 | 2480 | Ant1 | Hopping | -54.28 | -20 | Pass |
| NVNT | 2-DH5 | 2402 | Ant1 | Hopping | -52.34 | -20 | Pass |
| NVNT | 2-DH5 | 2480 | Ant1 | Hopping | -53.2 | -20 | Pass |
| NVNT | 3-DH5 | 2402 | Ant1 | Hopping | -52.32 | -20 | Pass |
| NVNT | 3-DH5 | 2480 | Ant1 | Hopping | -54.11 | -20 | Pass |

Test Graphs

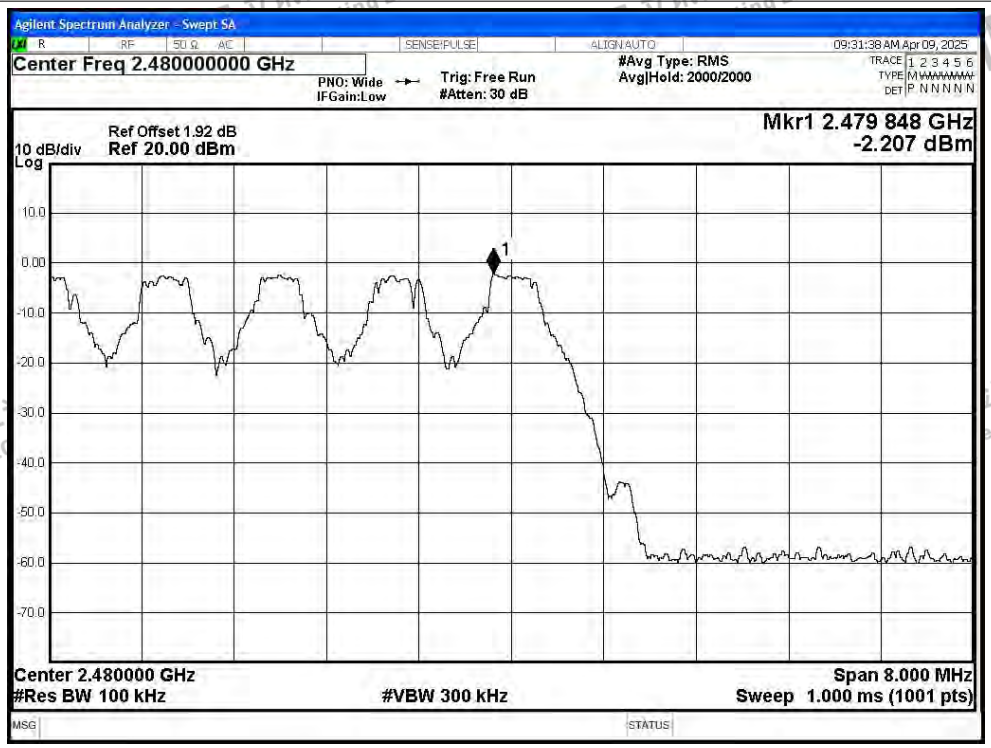
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



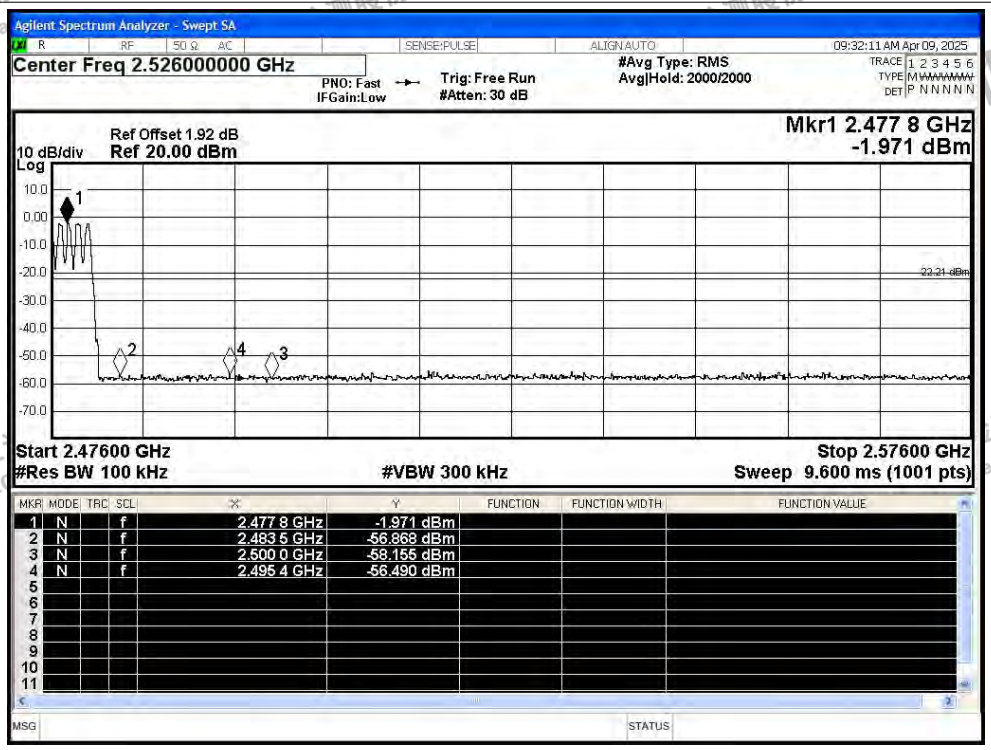

Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



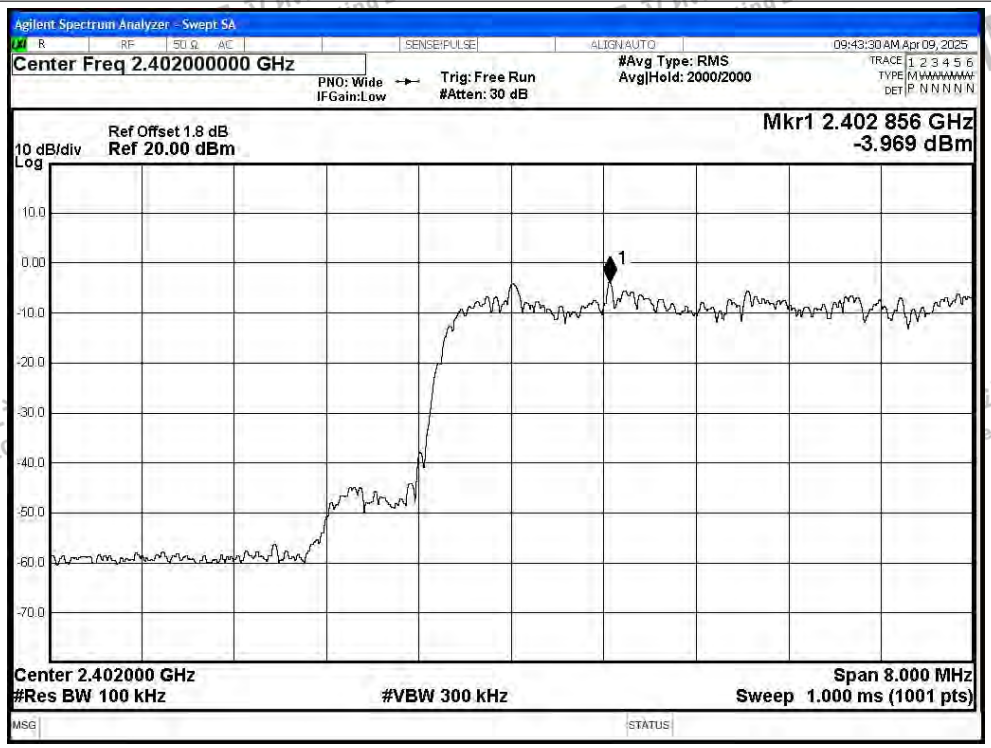
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



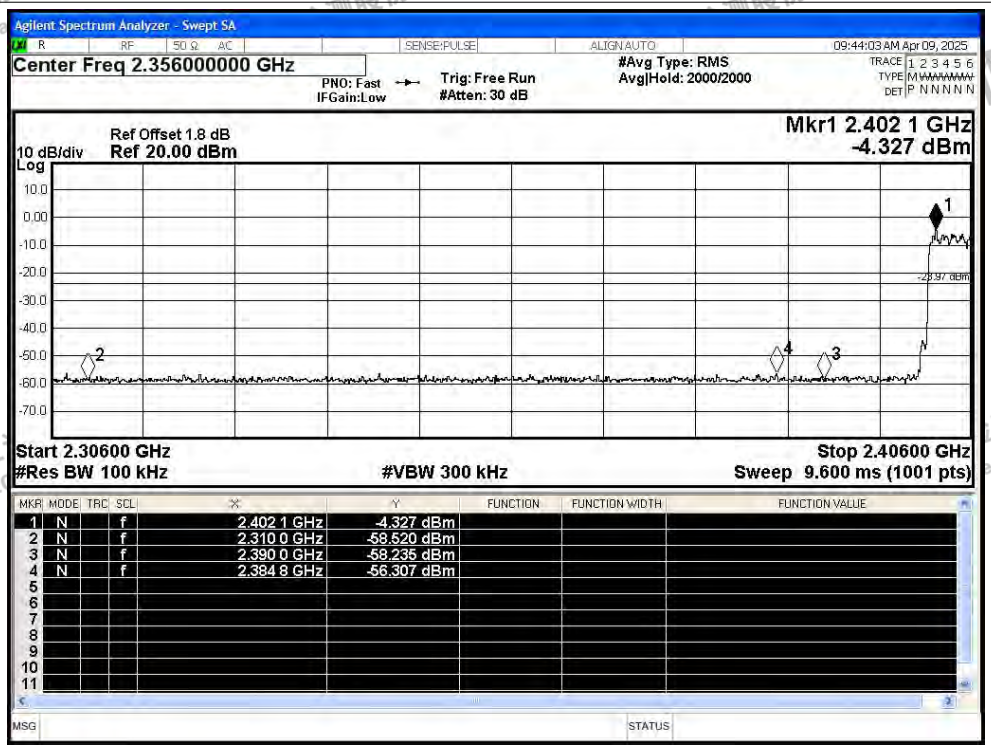

Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



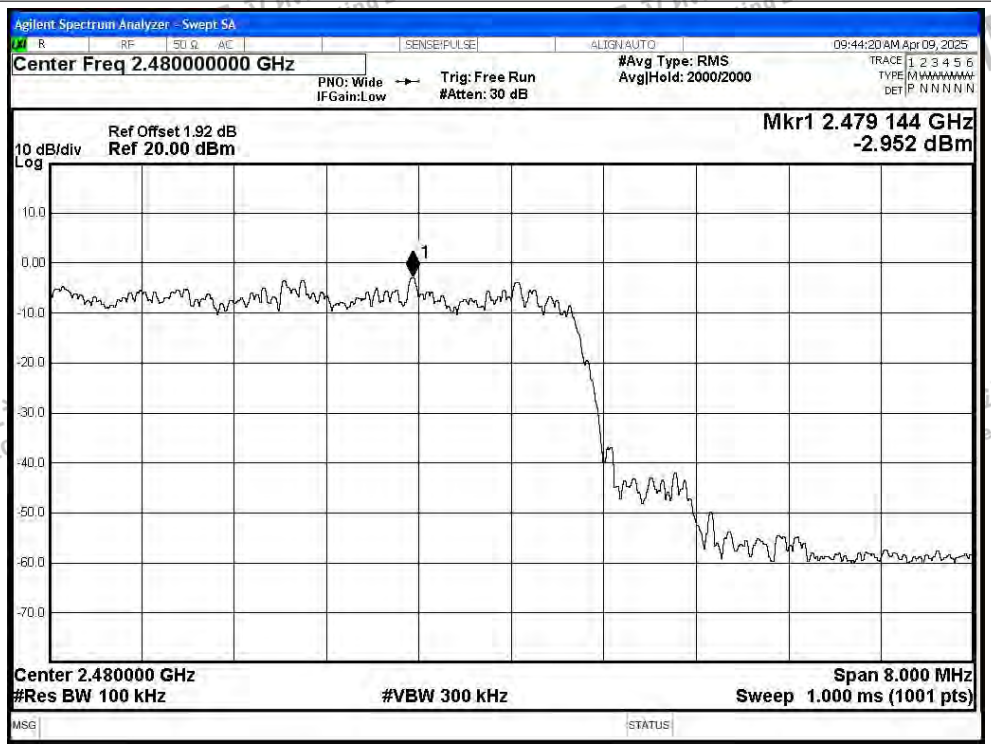
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



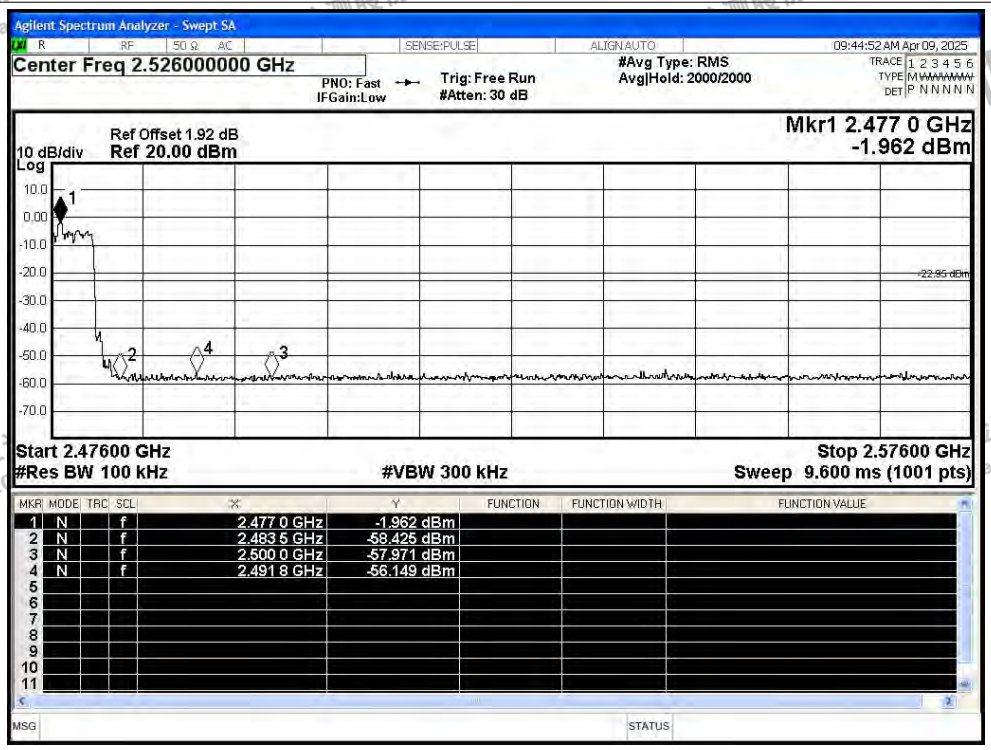

Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



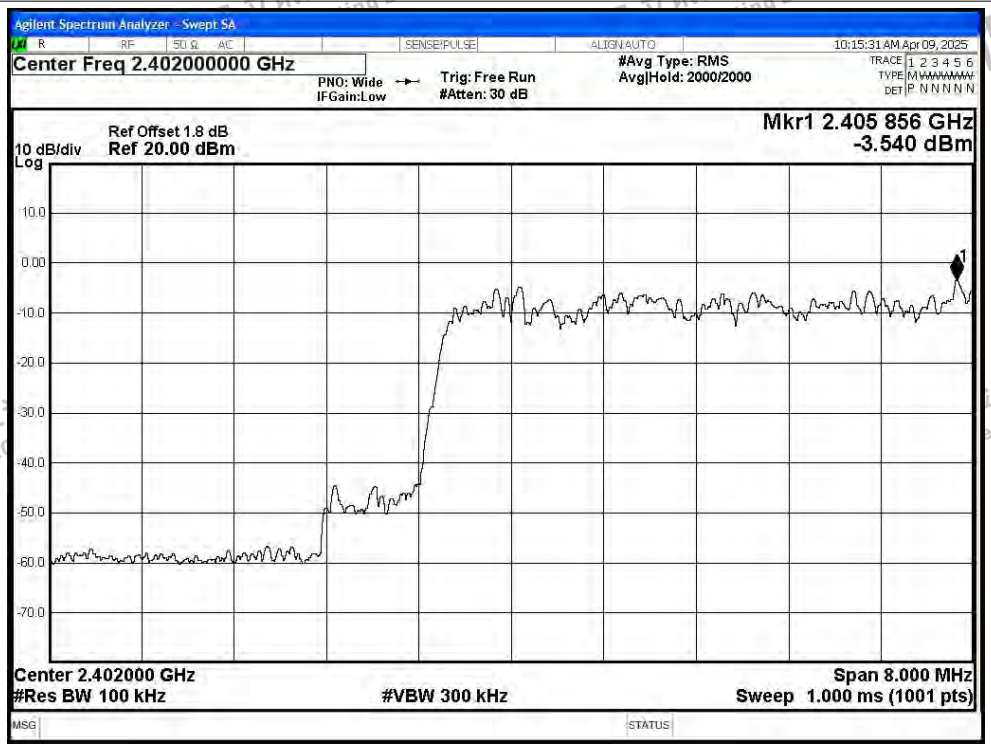
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



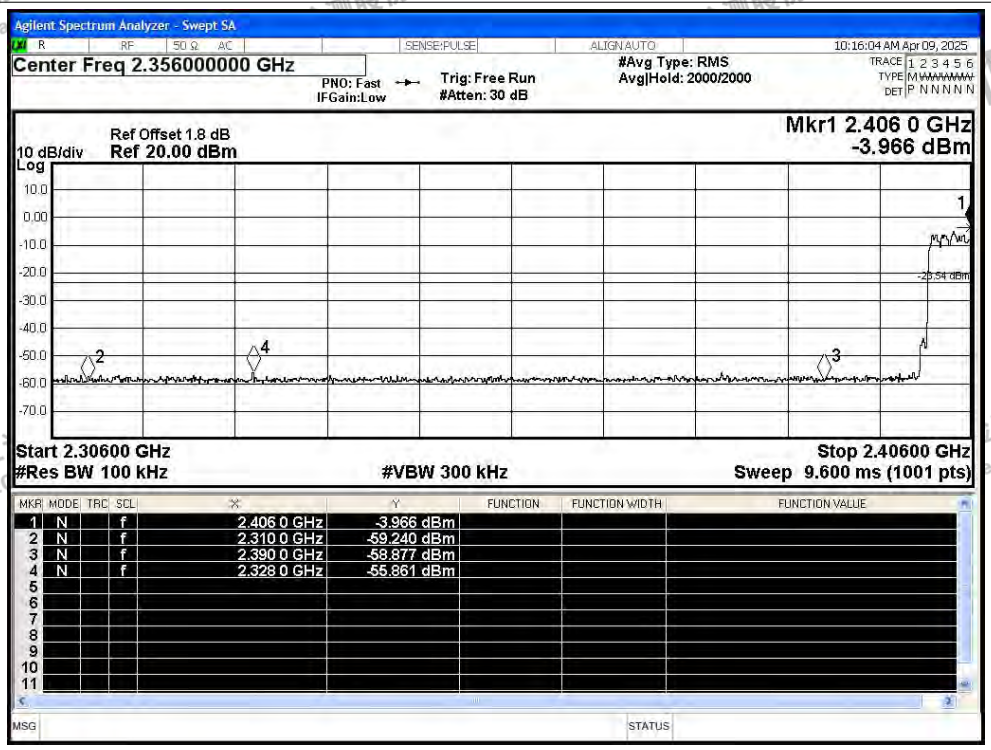

Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



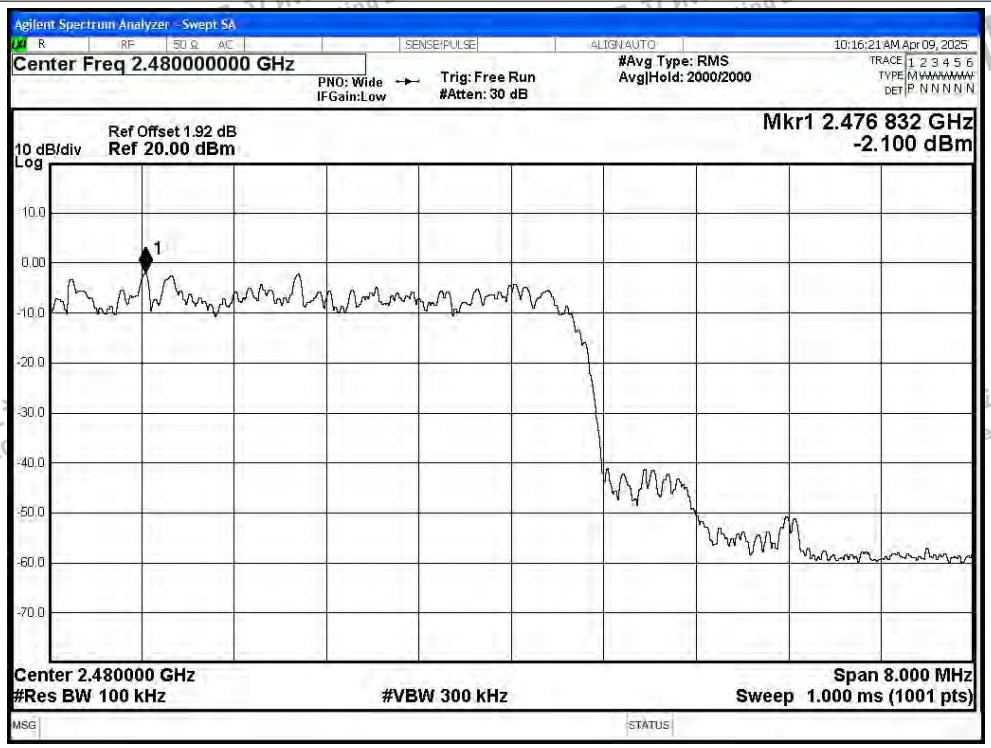
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



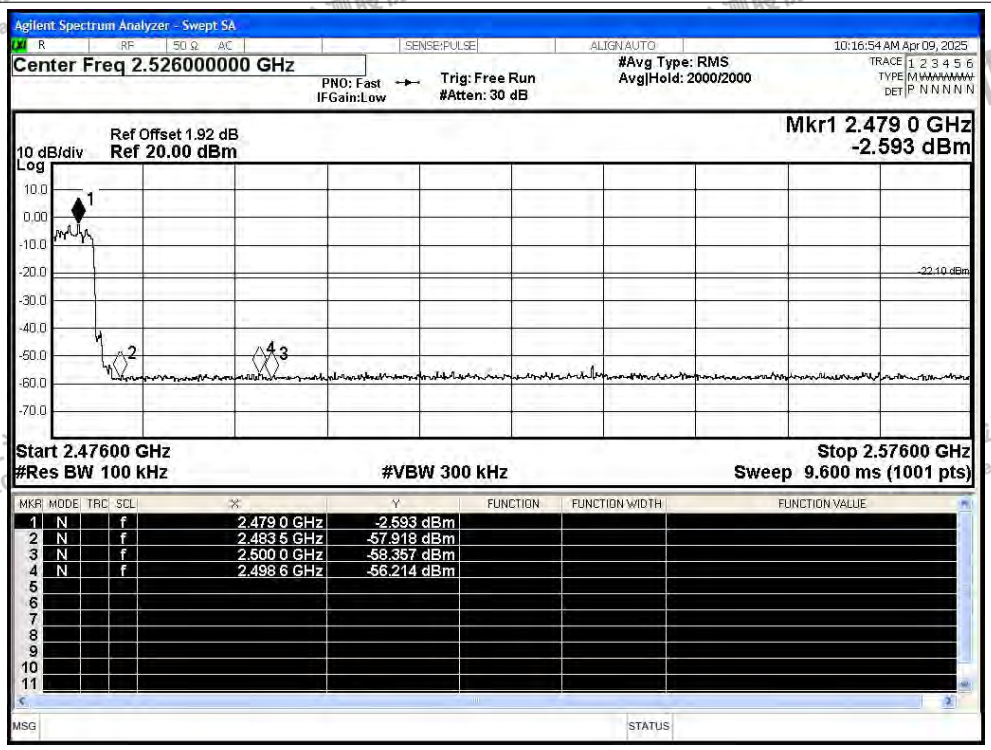

Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



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




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

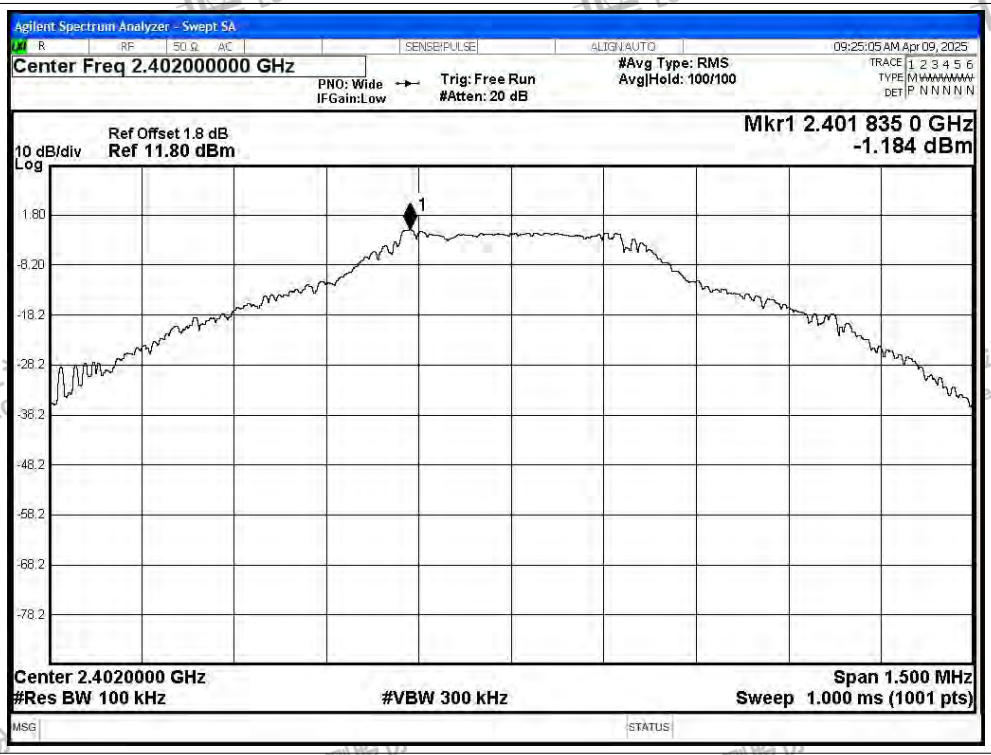


# A.7 Conducted RF Spurious Emission

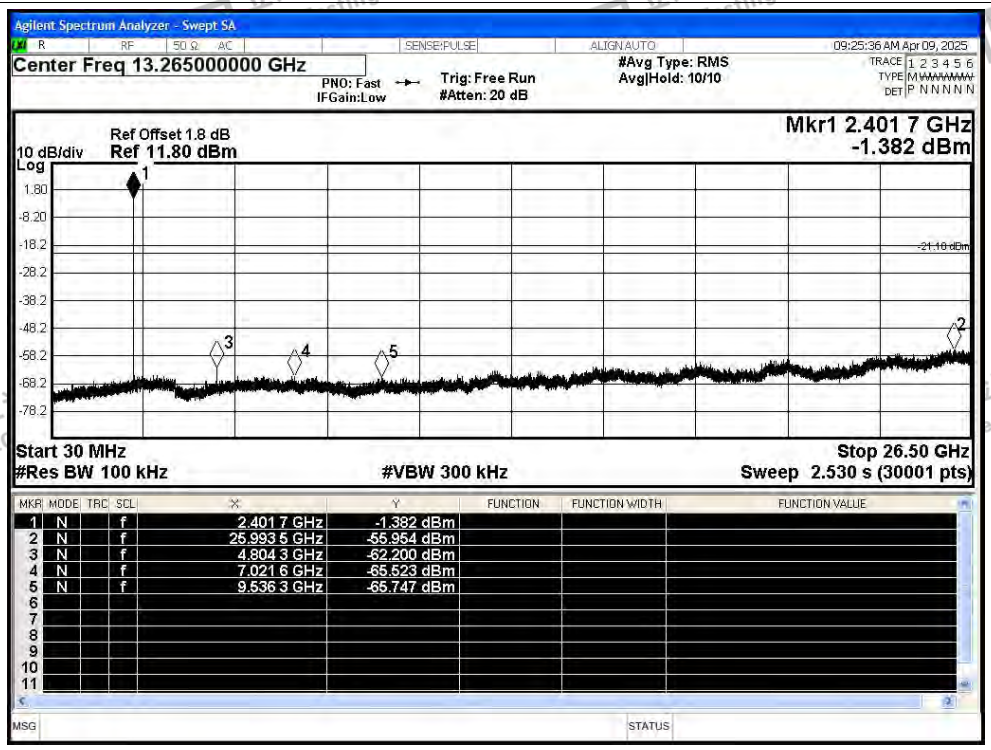
| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | 1-DH5 | 2402 | Ant1 | -54.77 | -20 | Pass |
| NVNT | 1-DH5 | 2441 | Ant1 | -54.21 | -20 | Pass |
| NVNT | 1-DH5 | 2480 | Ant1 | -53.38 | -20 | Pass |
| NVNT | 2-DH5 | 2402 | Ant1 | -54.77 | -20 | Pass |
| NVNT | 2-DH5 | 2441 | Ant1 | -54.96 | -20 | Pass |
| NVNT | 2-DH5 | 2480 | Ant1 | -53.13 | -20 | Pass |
| NVNT | 3-DH5 | 2402 | Ant1 | -53.38 | -20 | Pass |
| NVNT | 3-DH5 | 2441 | Ant1 | -54.79 | -20 | Pass |
| NVNT | 3-DH5 | 2480 | Ant1 | -53.75 | -20 | Pass |

Test Graphs

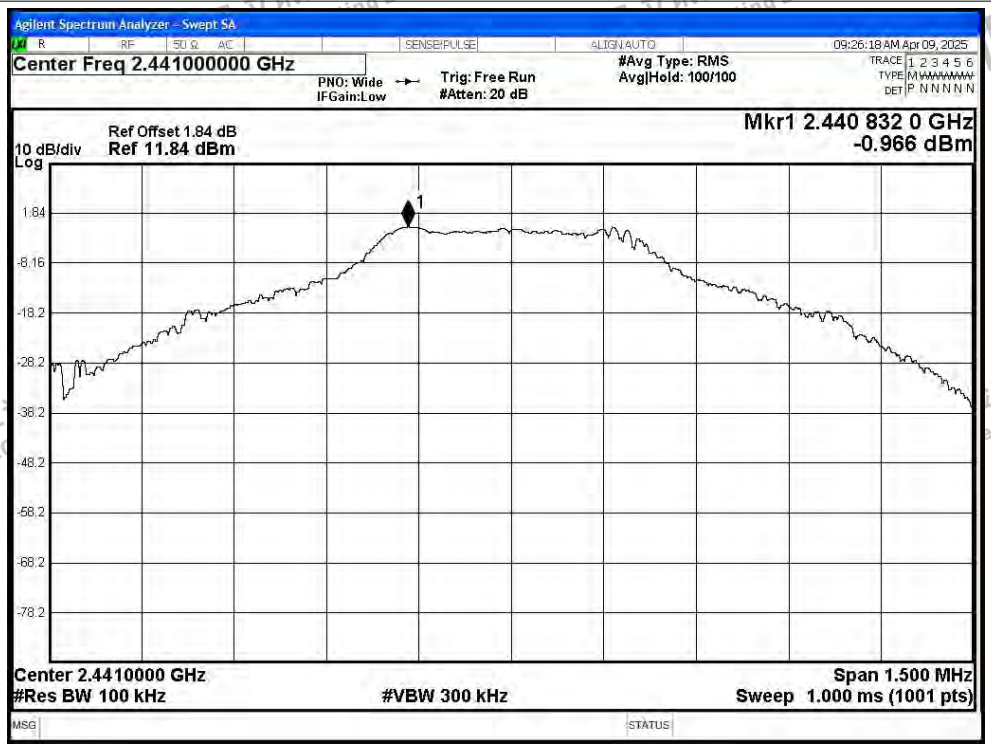
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



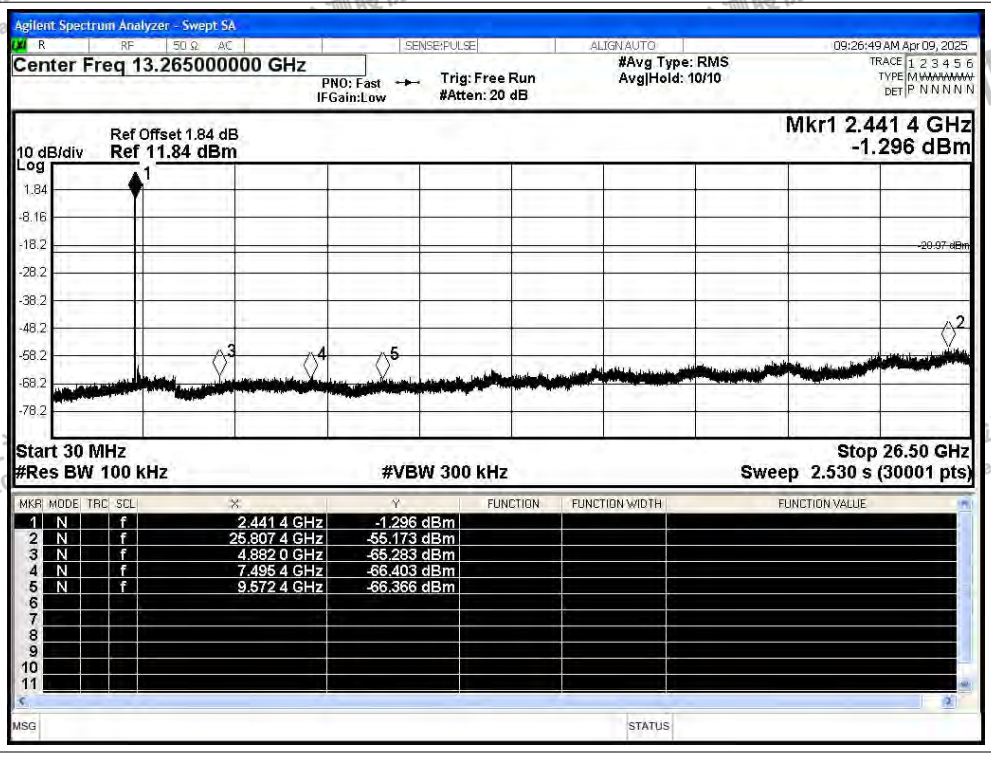

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

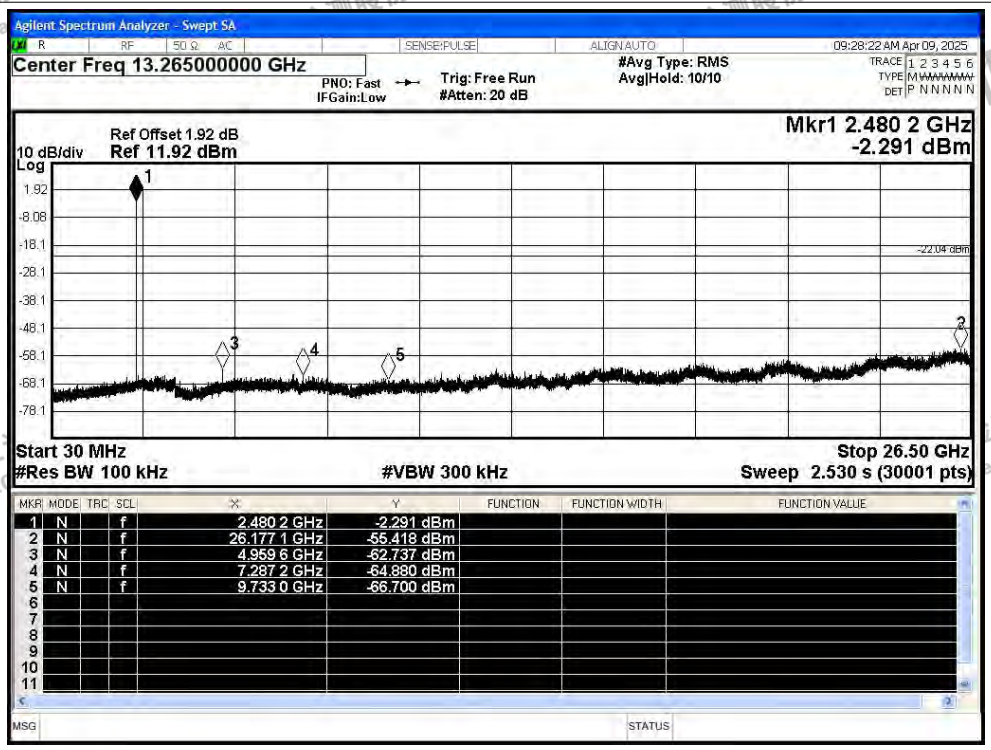



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

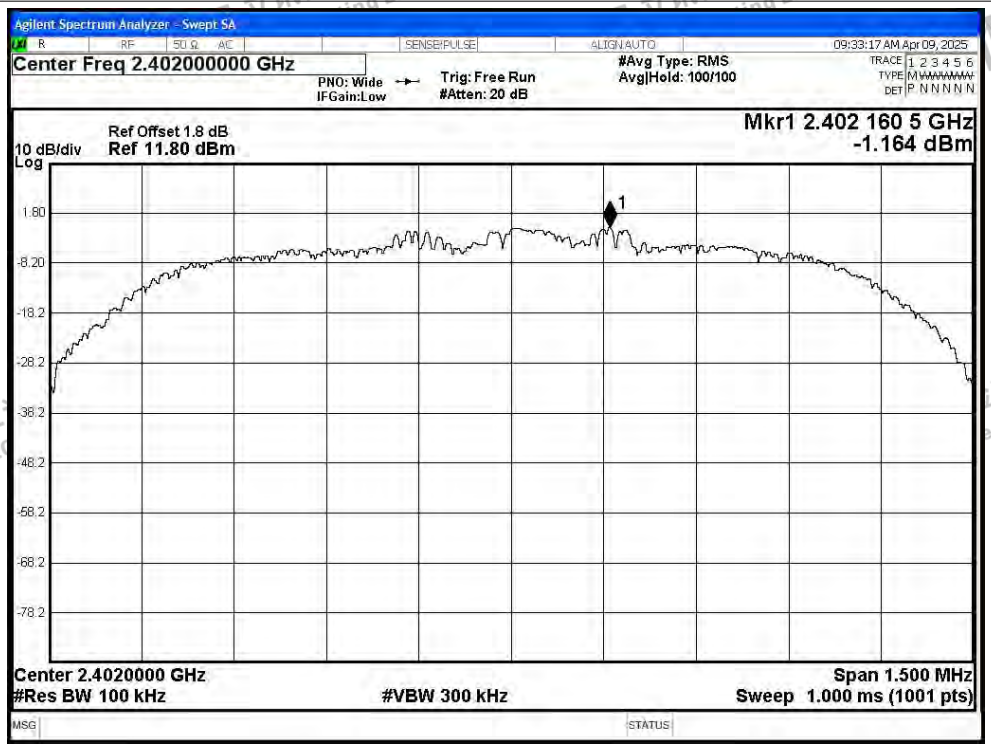


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

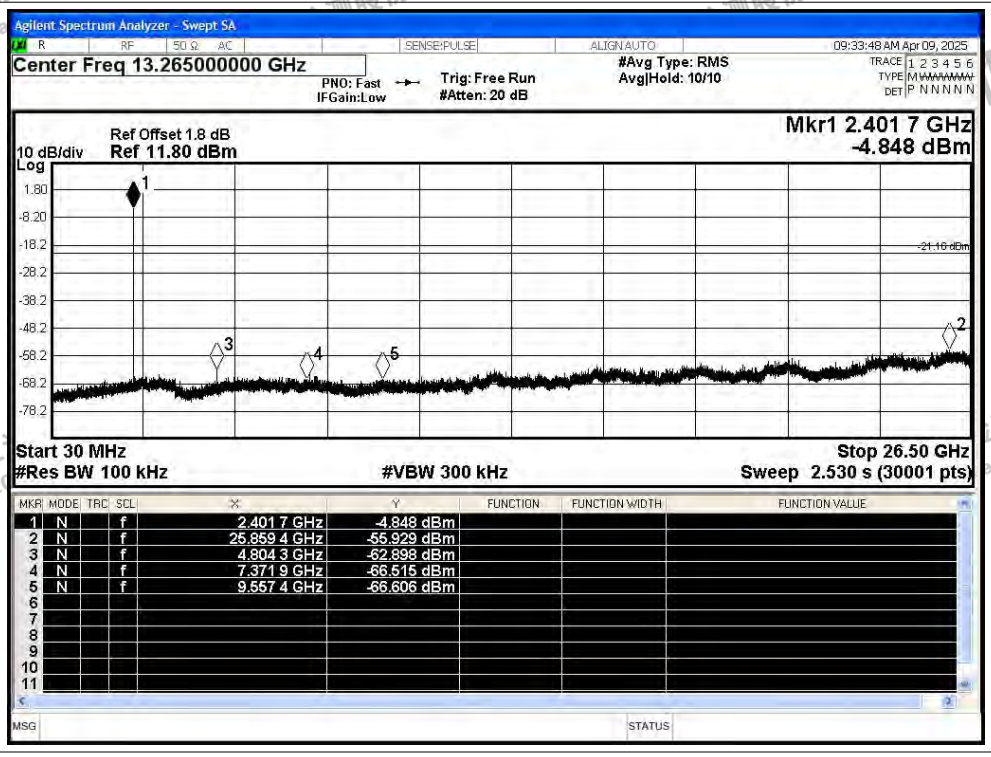
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



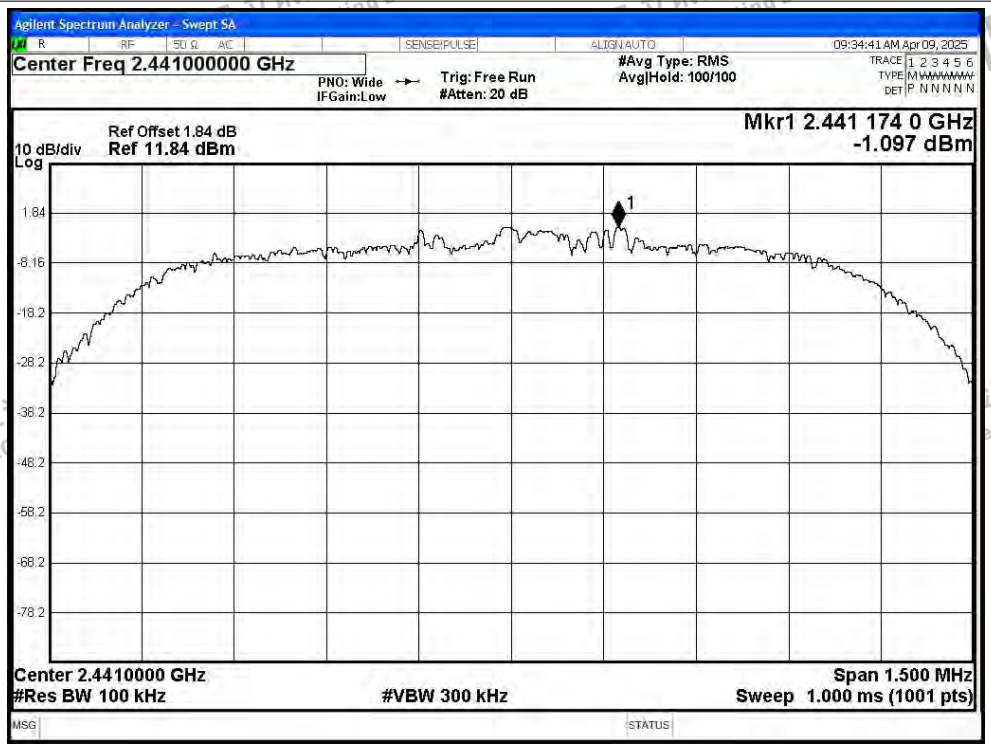
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



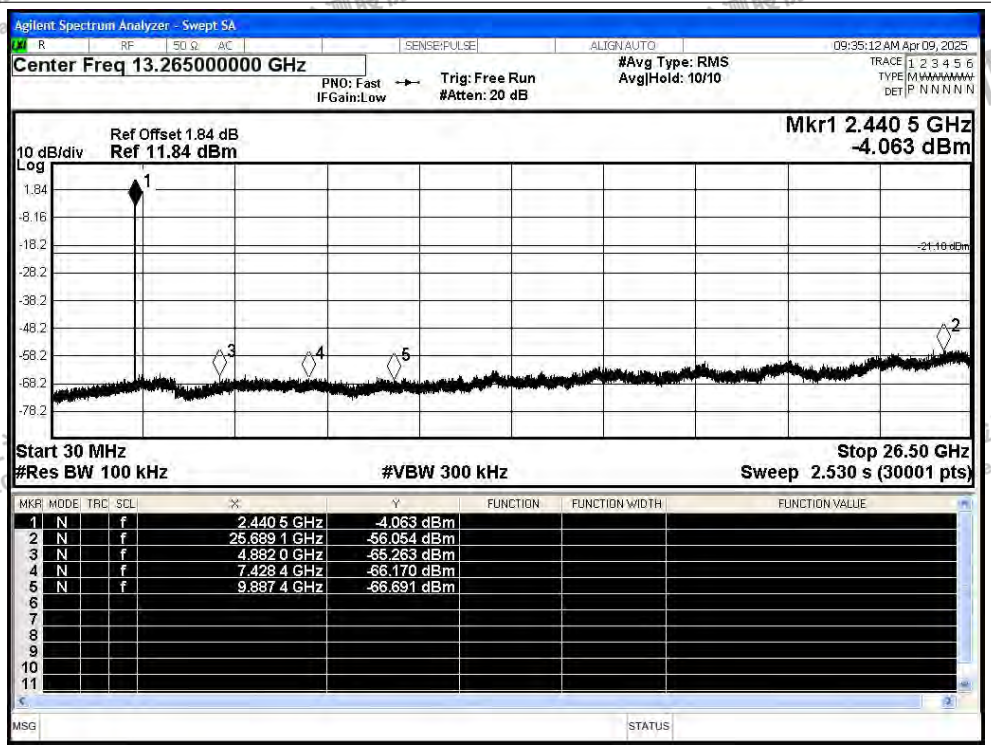

Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



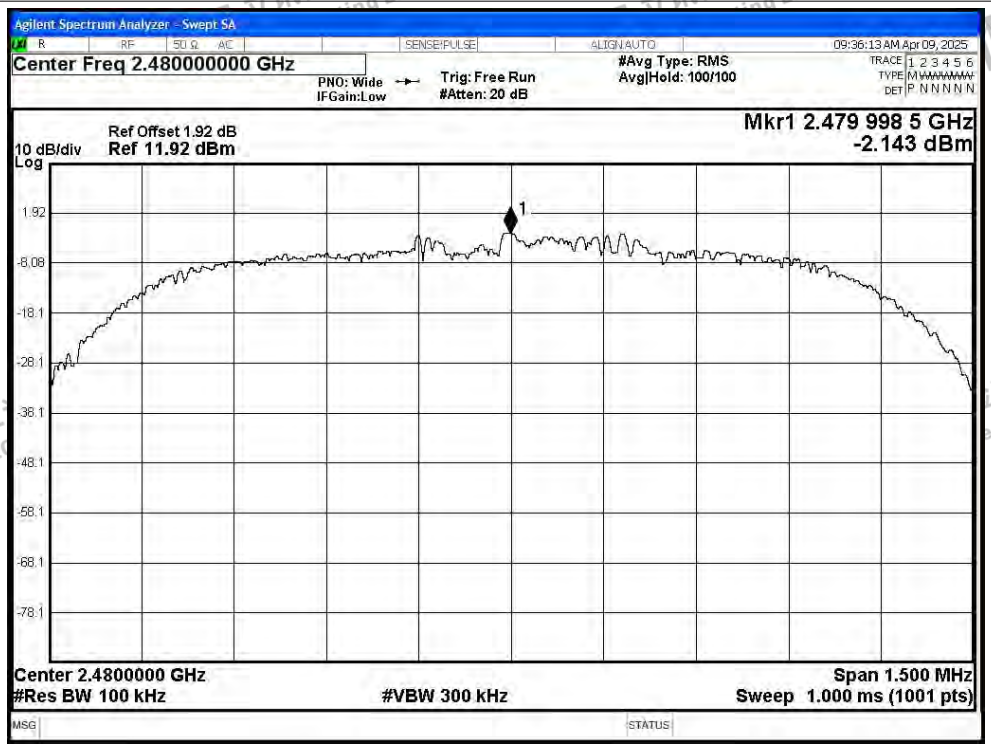
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



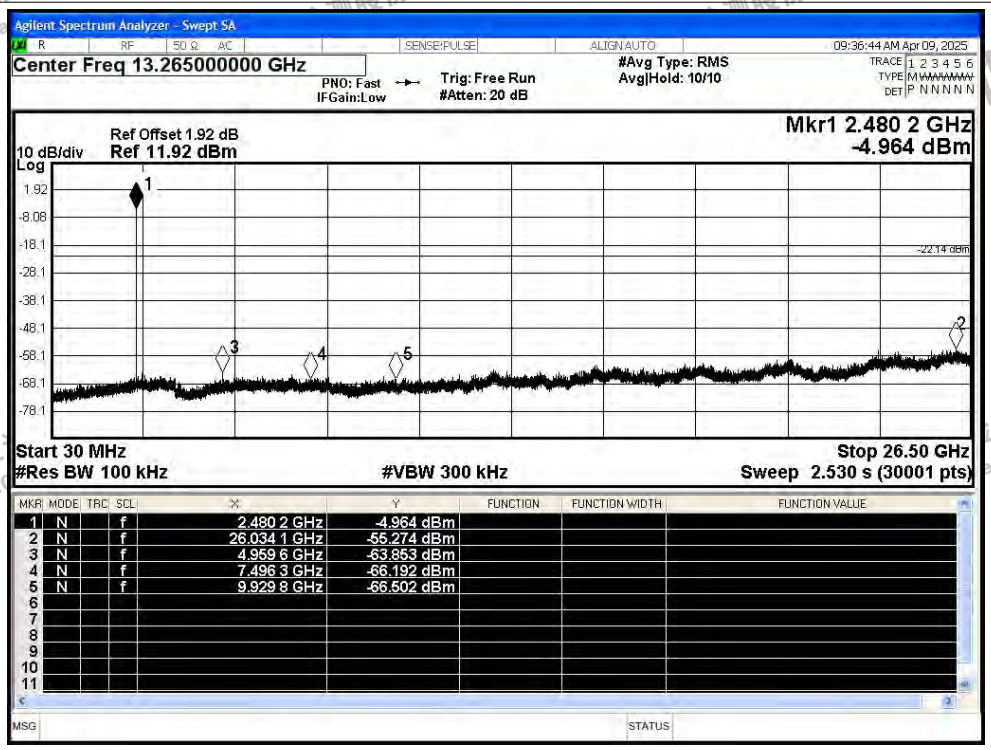

Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



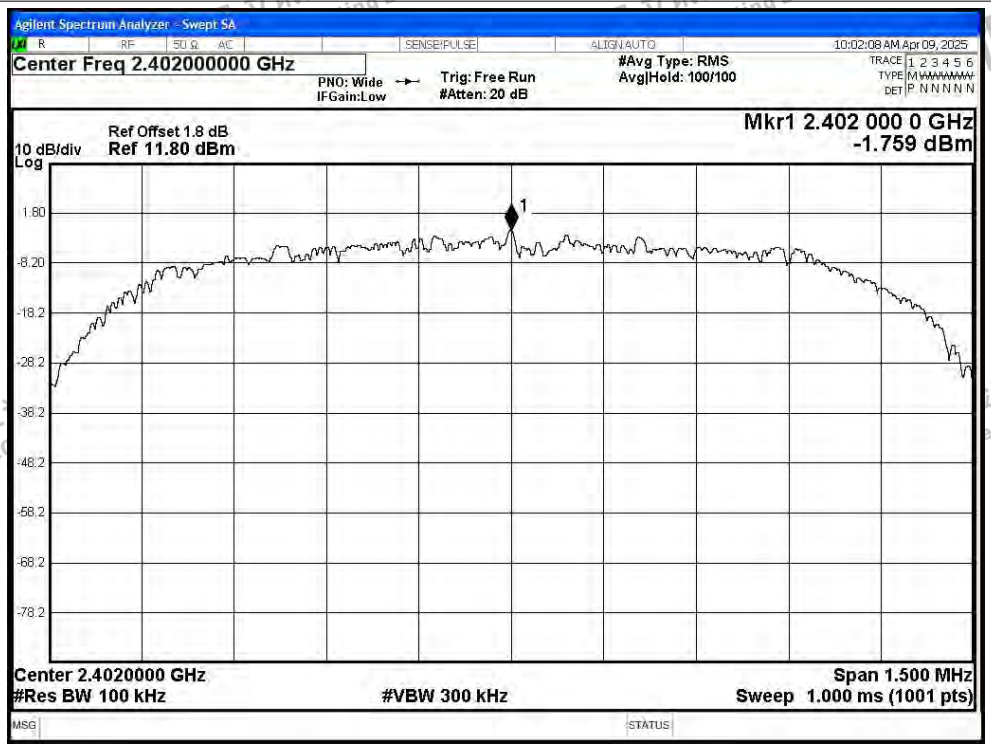
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



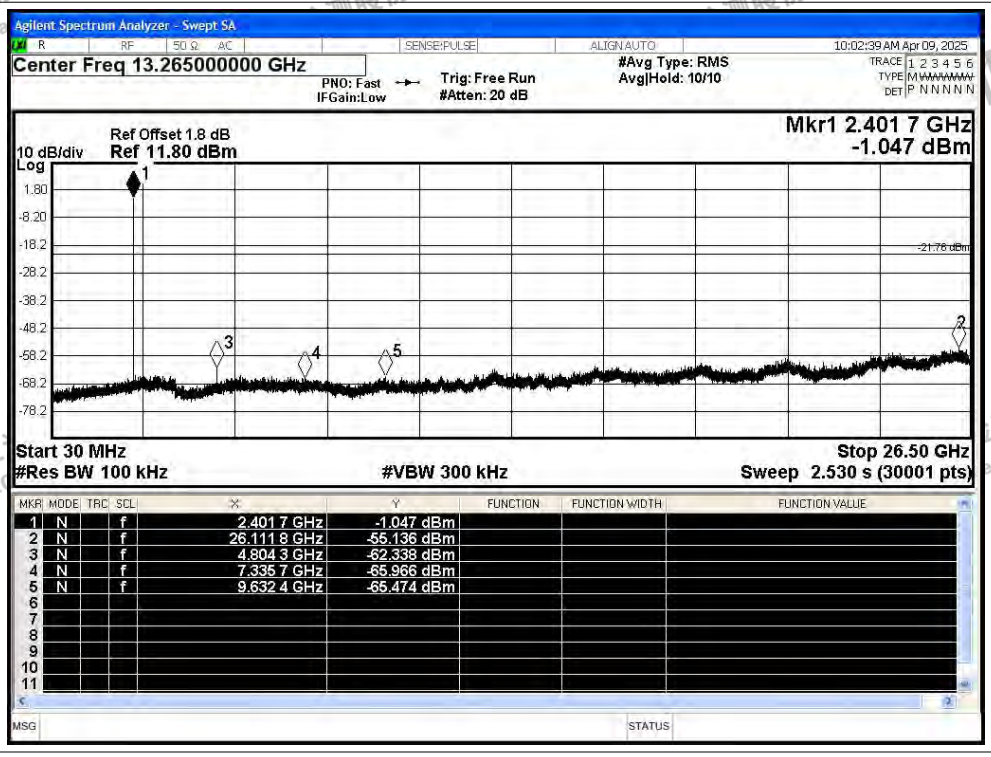

Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



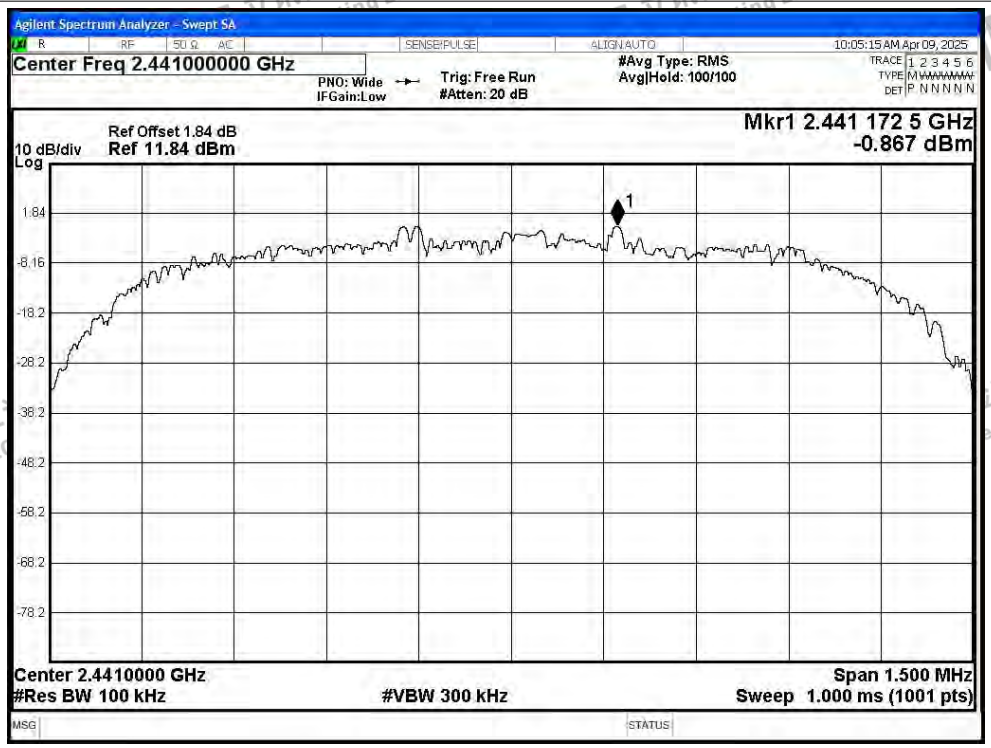
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



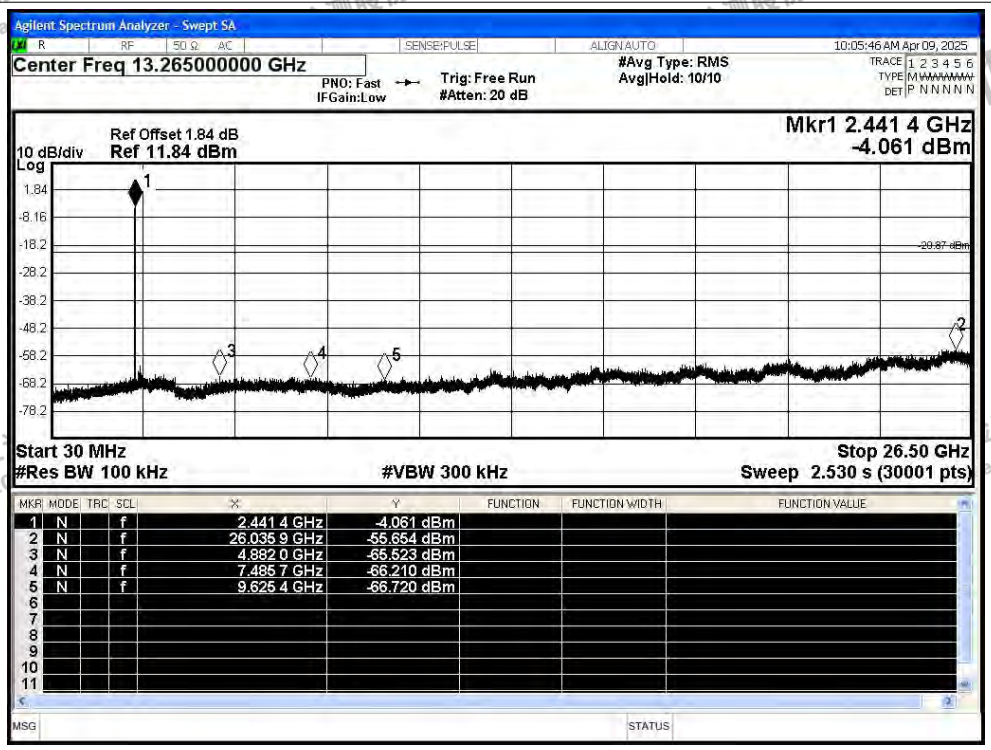

Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



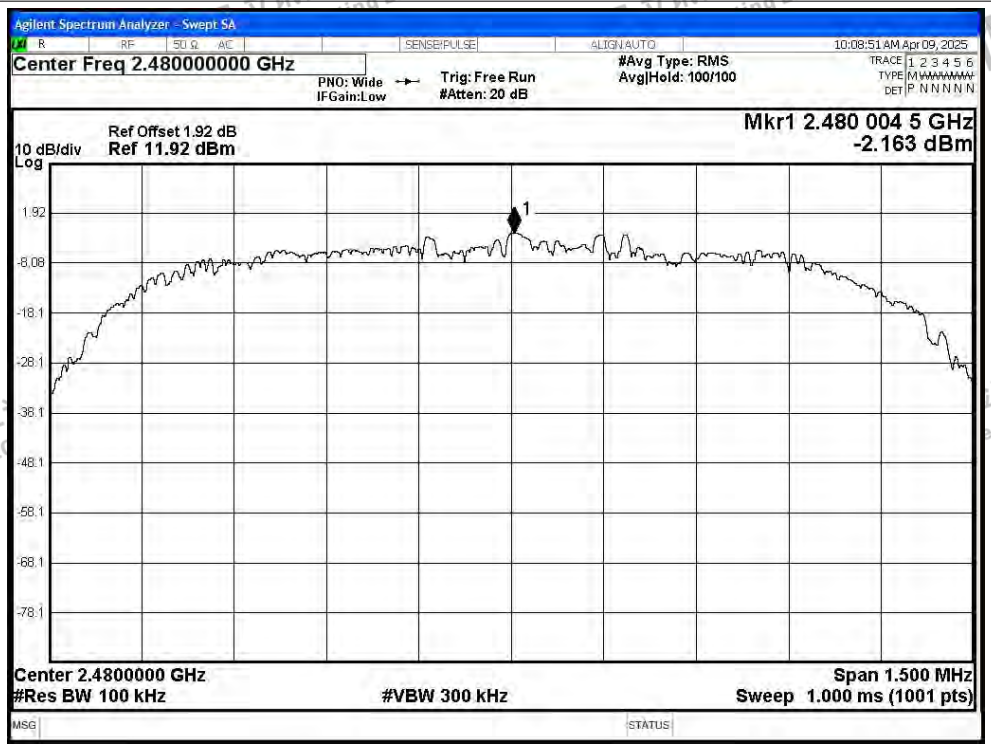
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



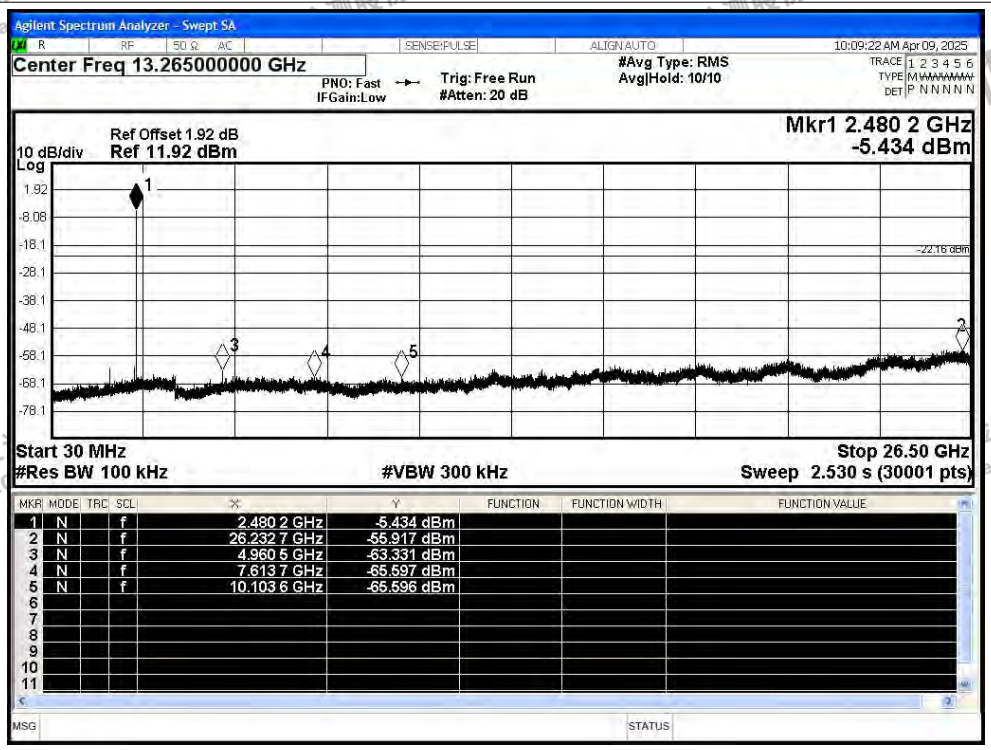

Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission

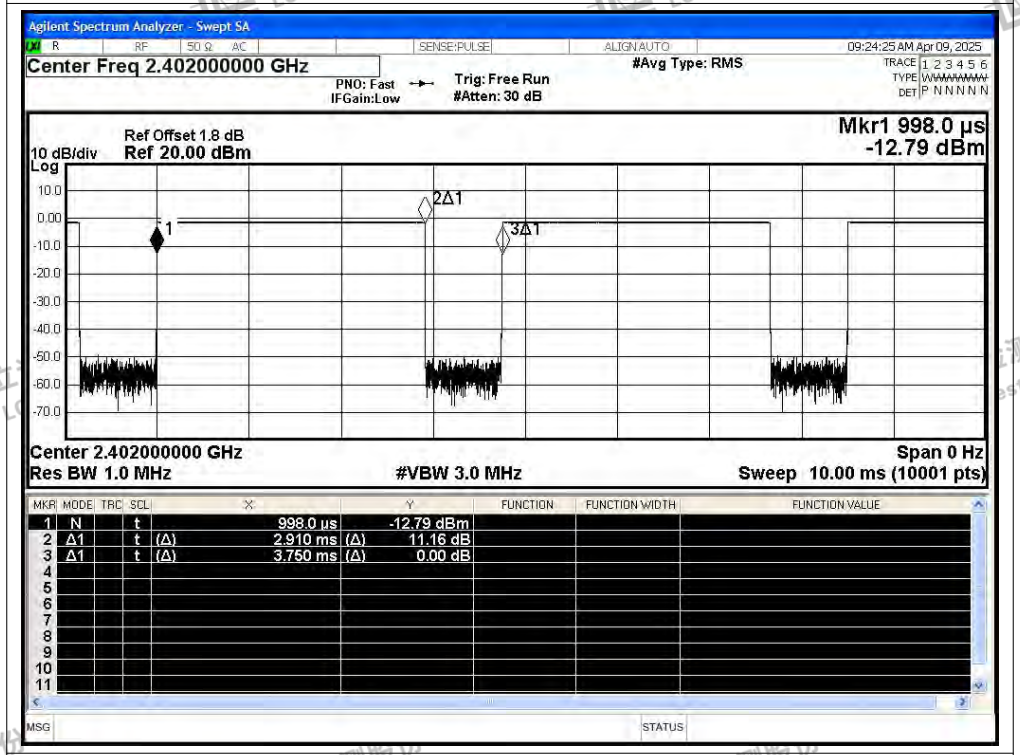


# A.8 Duty Cycle

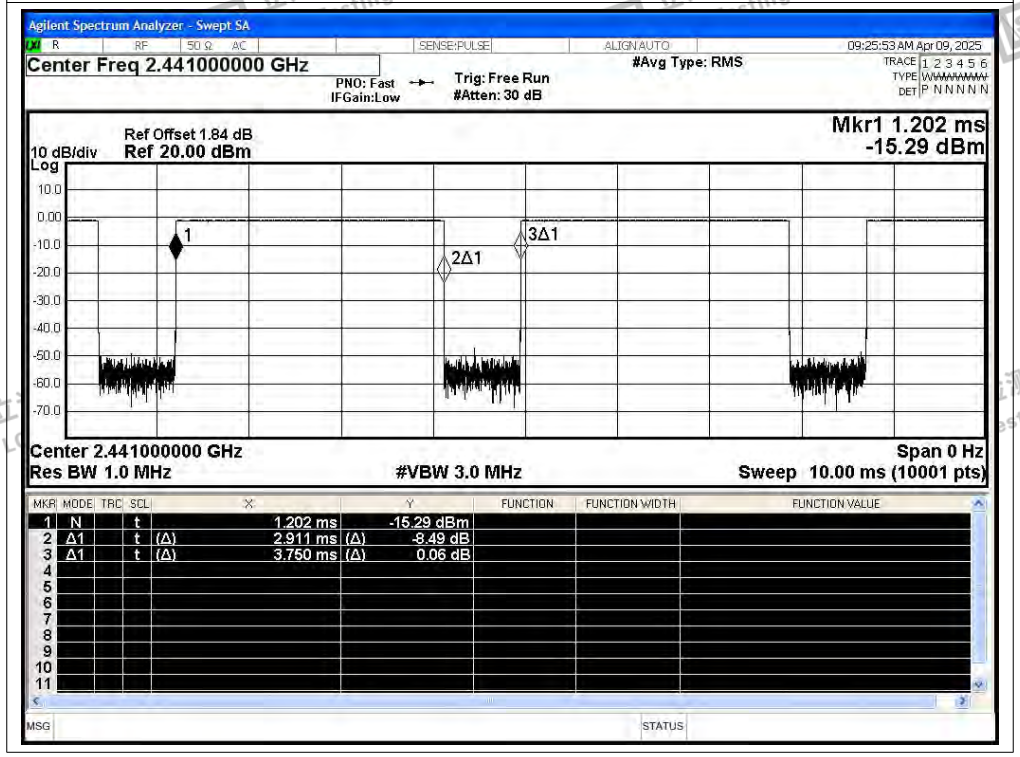
| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|---|---|---|---|---|---|---|
| NVNT | 1-DH5 | 2402 | Ant1 | 77.6 | 1.1 | 0.34 |
| NVNT | 1-DH5 | 2441 | Ant1 | 77.63 | 1.1 | 0.34 |
| NVNT | 1-DH5 | 2480 | Ant1 | 77.6 | 1.1 | 0.34 |
| NVNT | 2-DH5 | 2402 | Ant1 | 77.28 | 1.12 | 0.35 |
| NVNT | 2-DH5 | 2441 | Ant1 | 77.28 | 1.12 | 0.35 |
| NVNT | 2-DH5 | 2480 | Ant1 | 77.28 | 1.12 | 0.35 |
| NVNT | 3-DH5 | 2402 | Ant1 | 77.28 | 1.12 | 0.35 |
| NVNT | 3-DH5 | 2441 | Ant1 | 77.28 | 1.12 | 0.35 |
| NVNT | 3-DH5 | 2480 | Ant1 | 77.28 | 1.12 | 0.35 |

Test Graphs

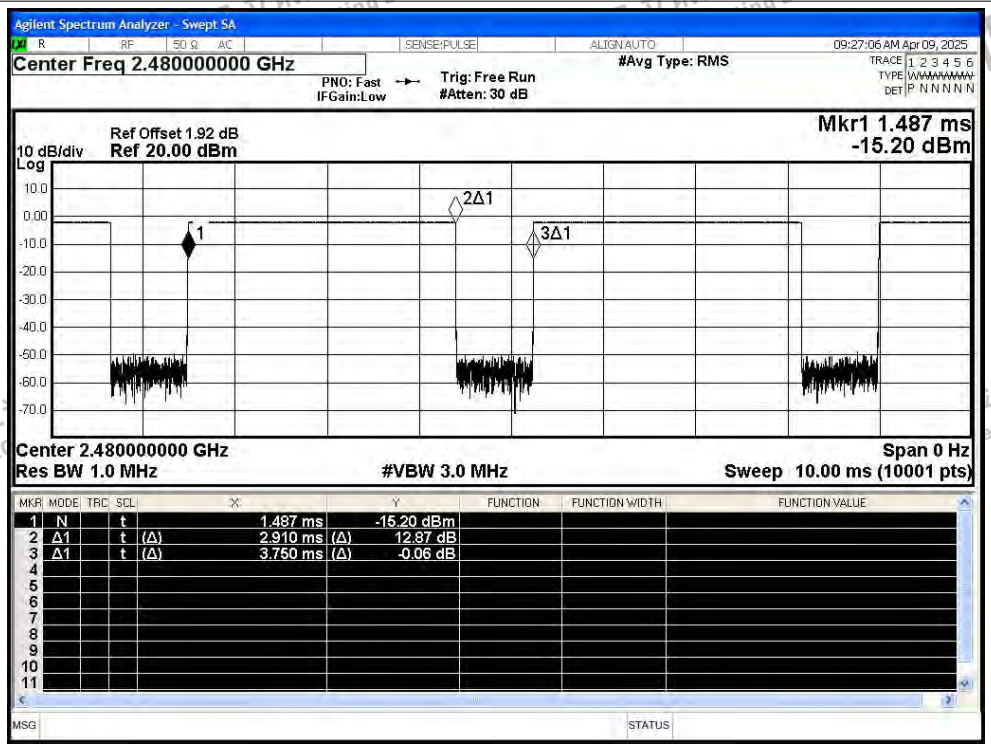
Duty Cycle NVNT 1-DH5 2402MHz Ant1



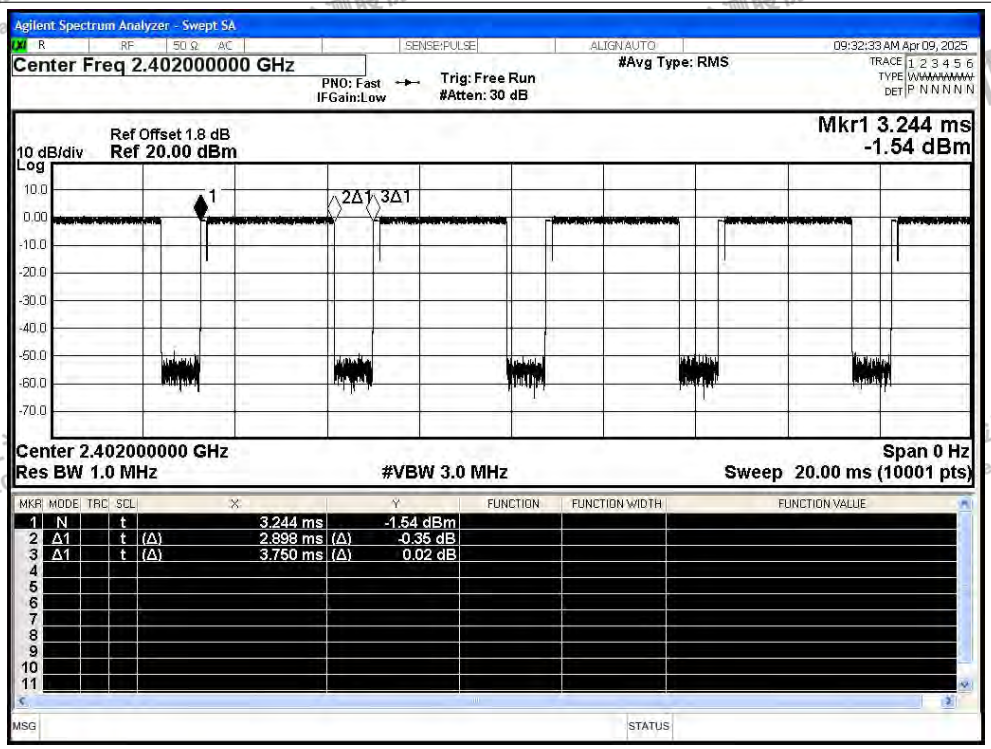

Duty Cycle NVNT 1-DH5 2441MHz Ant1



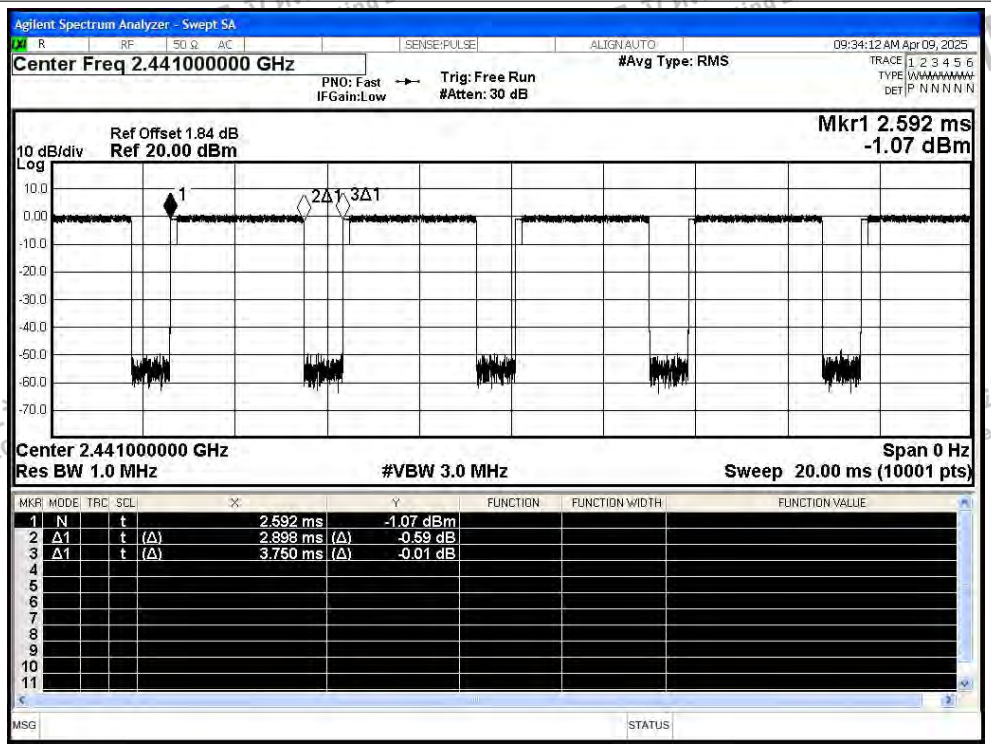
Duty Cycle NVNT 1-DH5 2480MHz Ant1



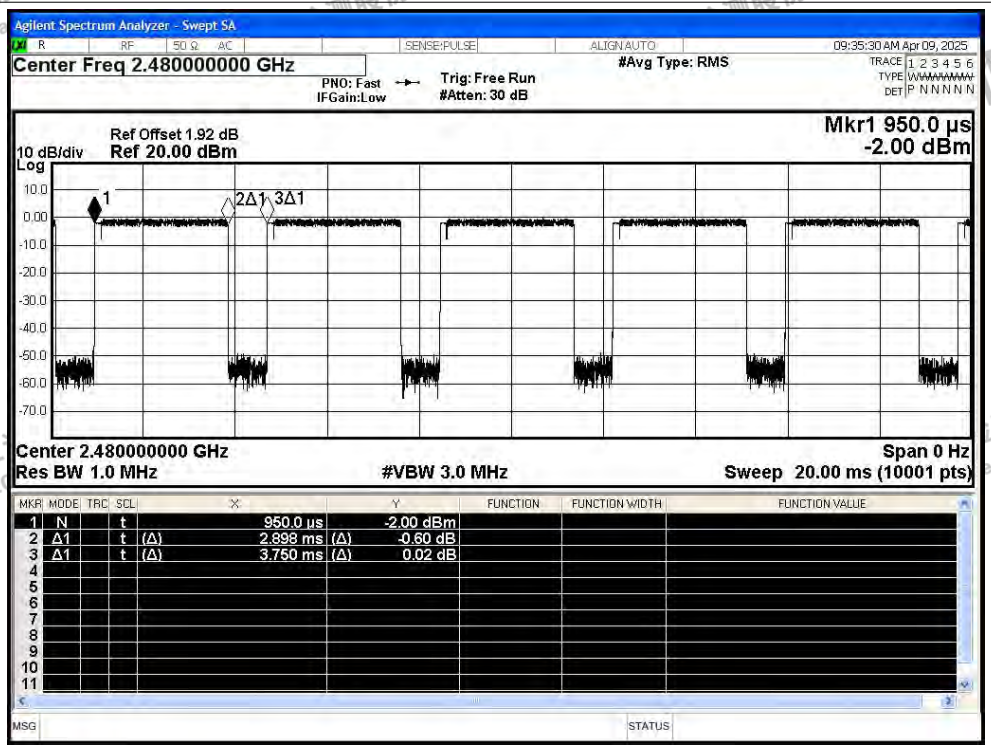

Duty Cycle NVNT 2-DH5 2402MHz Ant1



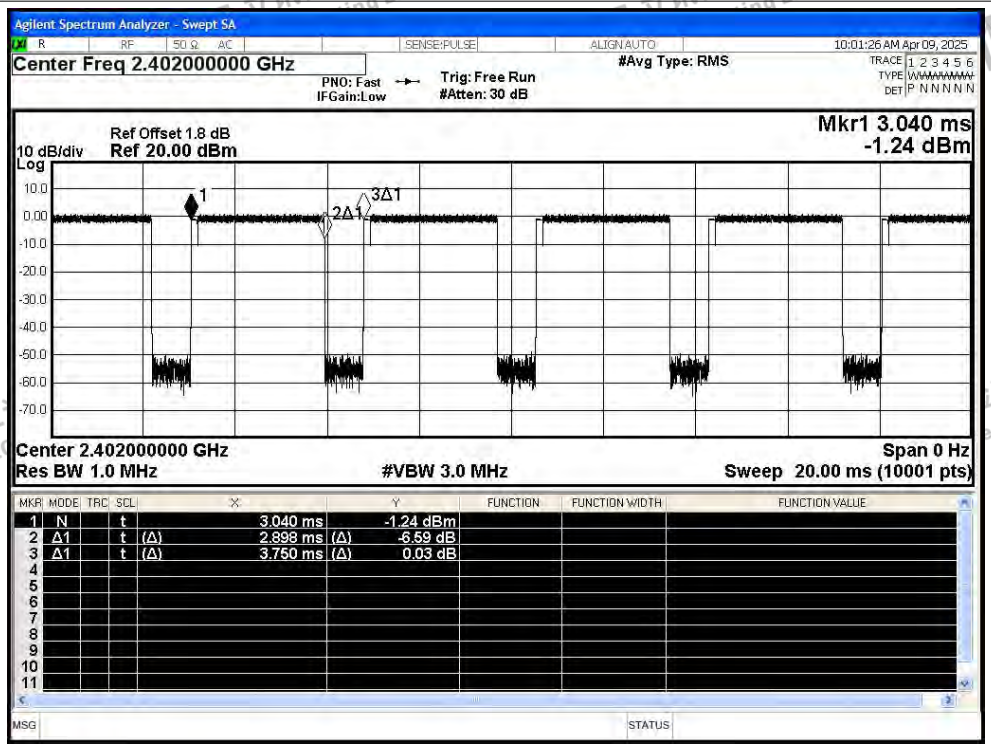
Duty Cycle NVNT 2-DH5 2441MHz Ant1



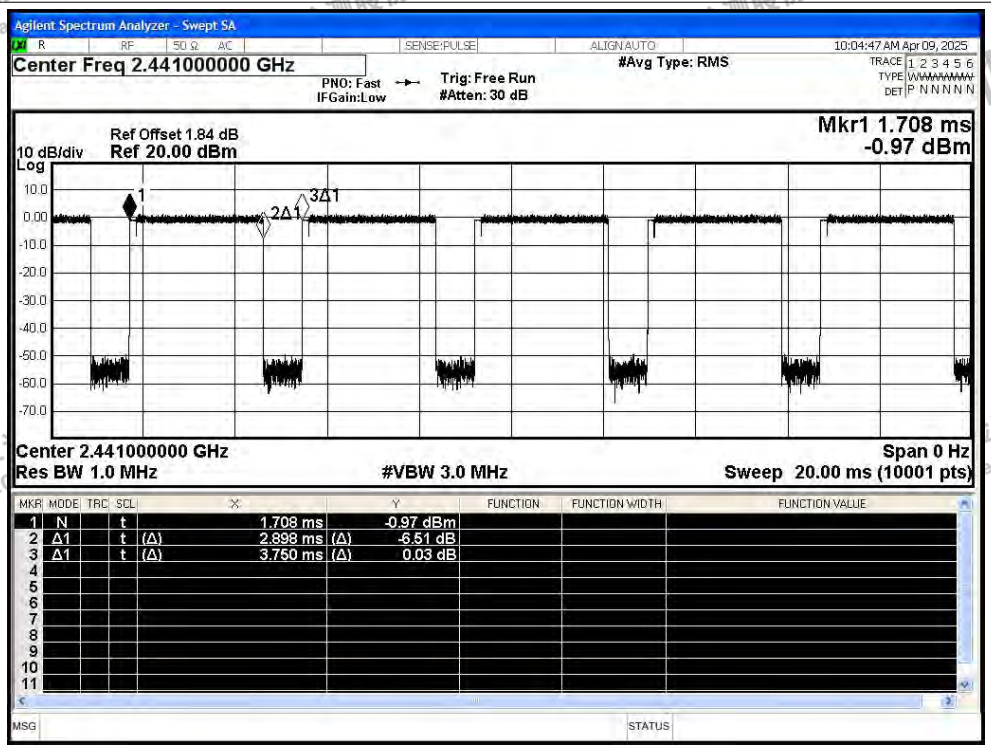

Duty Cycle NVNT 2-DH5 2480MHz Ant1



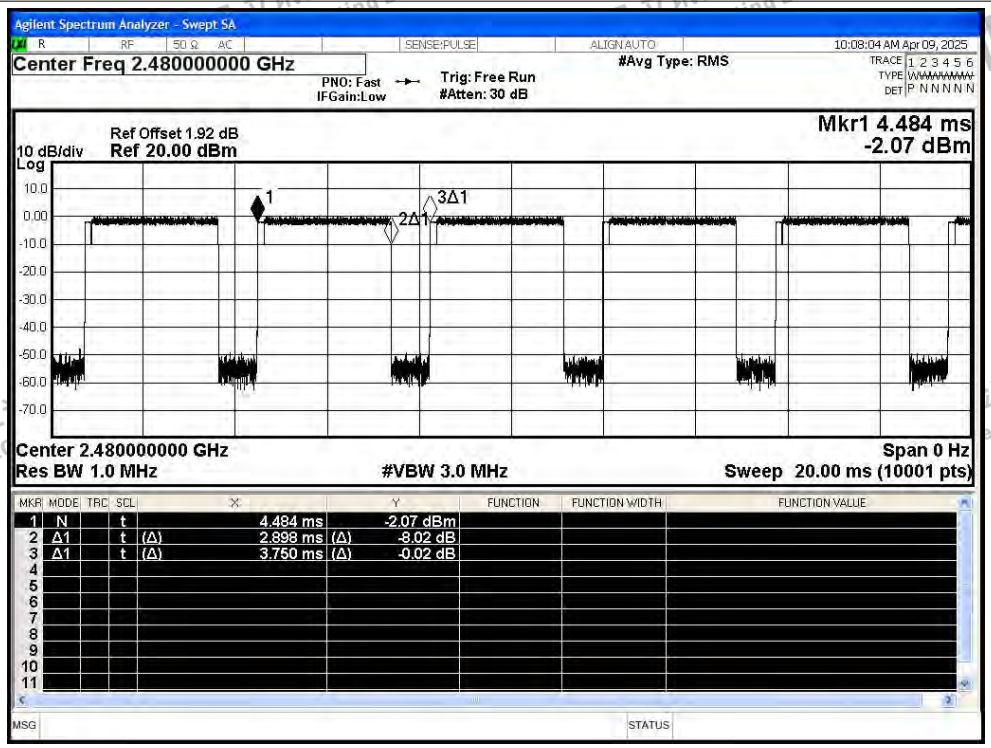
Duty Cycle NVNT 3-DH5 2402MHz Ant1




Duty Cycle NVNT 3-DH5 2441MHz Ant1



Duty Cycle NVNT 3-DH5 2480MHz Ant1

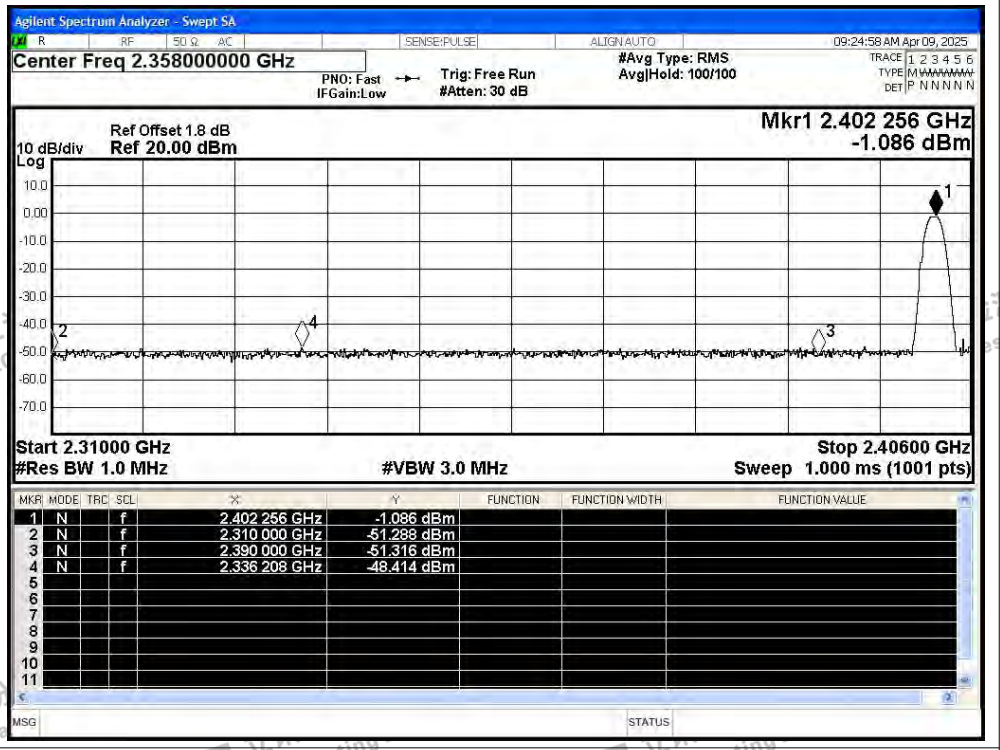


# A.9 Restrict Band

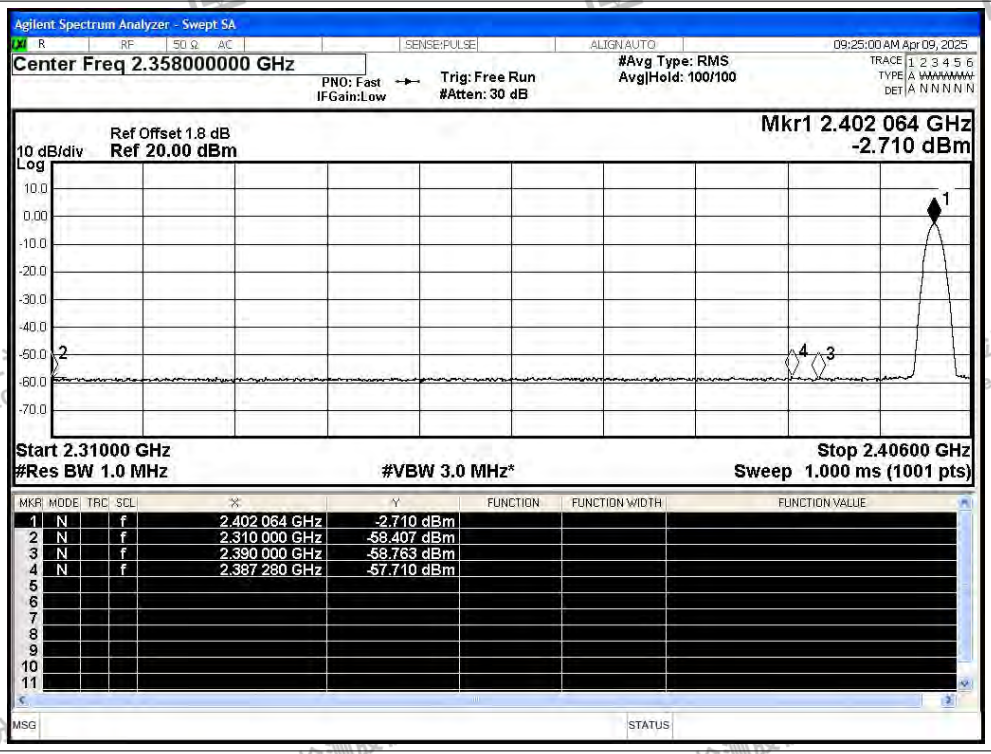
| Condition | Mode | Frequency (MHz) | Antenna | Hopping Mode | Spur Freq (MHz) | Power (dBm) | Gain (dBi) | Duty Factor (dB) | E (dBuV/m) | Detector | Limit (dBuV/m) | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NVNT | 1-DH5 | 2402 | Ant1 | No-Hopping | 2310 | -51.29 | 2 | - | 45.97 | Peak | 74 | Pass |
| NVNT | 1-DH5 | 2402 | Ant1 | No-Hopping | 2310 | -58.41 | 2 | 1.1 | 39.95 | Average | 54 | Pass |
| NVNT | 1-DH5 | 2402 | Ant1 | No-Hopping | 2336.208 | -48.41 | 2 | - | 48.85 | Peak | 74 | Pass |
| NVNT | 1-DH5 | 2402 | Ant1 | No-Hopping | 2387.28 | -57.71 | 2 | 1.1 | 40.65 | Average | 54 | Pass |
| NVNT | 1-DH5 | 2402 | Ant1 | No-Hopping | 2390 | -51.32 | 2 | - | 45.94 | Peak | 74 | Pass |
| NVNT | 1-DH5 | 2402 | Ant1 | No-Hopping | 2390 | -58.76 | 2 | 1.1 | 39.6 | Average | 54 | Pass |
| NVNT | 1-DH5 | 2480 | Ant1 | No-Hopping | 2483.5 | -48.56 | 2 | - | 48.7 | Peak | 74 | Pass |
| NVNT | 1-DH5 | 2480 | Ant1 | No-Hopping | 2483.5 | -58.28 | 2 | 1.1 | 40.08 | Average | 54 | Pass |
| NVNT | 1-DH5 | 2480 | Ant1 | No-Hopping | 2484.544 | -46.58 | 2 | - | 50.68 | Peak | 74 | Pass |
| NVNT | 1-DH5 | 2480 | Ant1 | No-Hopping | 2483.656 | -57.26 | 2 | 1.1 | 41.1 | Average | 54 | Pass |
| NVNT | 1-DH5 | 2480 | Ant1 | No-Hopping | 2500 | -50.72 | 2 | - | 46.54 | Peak | 74 | Pass |
| NVNT | 1-DH5 | 2480 | Ant1 | No-Hopping | 2500 | -58.32 | 2 | 1.1 | 40.04 | Average | 54 | Pass |
| NVNT | 2-DH5 | 2402 | Ant1 | No-Hopping | 2310 | -51.41 | 2 | - | 45.85 | Peak | 74 | Pass |
| NVNT | 2-DH5 | 2402 | Ant1 | No-Hopping | 2310 | -59.2 | 2 | 1.12 | 39.18 | Average | 54 | Pass |
| NVNT | 2-DH5 | 2402 | Ant1 | No-Hopping | 2362.608 | -47.71 | 2 | - | 49.55 | Peak | 74 | Pass |
| NVNT | 2-DH5 | 2402 | Ant1 | No-Hopping | 2368.272 | -57.91 | 2 | 1.12 | 40.47 | Average | 54 | Pass |
| NVNT | 2-DH5 | 2402 | Ant1 | No-Hopping | 2390 | -50.57 | 2 | - | 46.69 | Peak | 74 | Pass |
| NVNT | 2-DH5 | 2402 | Ant1 | No-Hopping | 2390 | -57.94 | 2 | 1.12 | 40.44 | Average | 54 | Pass |
| NVNT | 2-DH5 | 2480 | Ant1 | No-Hopping | 2483.5 | -49.3 | 2 | - | 47.96 | Peak | 74 | Pass |
| NVNT | 2-DH5 | 2480 | Ant1 | No-Hopping | 2483.5 | -57.48 | 2 | 1.12 | 40.9 | Average | 54 | Pass |
| NVNT | 2-DH5 | 2480 | Ant1 | No-Hopping | 2484.016 | -46.42 | 2 | - | 50.84 | Peak | 74 | Pass |
| NVNT | 2-DH5 | 2480 | Ant1 | No-Hopping | 2483.776 | -57.11 | 2 | 1.12 | 41.27 | Average | 54 | Pass |
| NVNT | 2-DH5 | 2480 | Ant1 | No-Hopping | 2500 | -50.97 | 2 | - | 46.29 | Peak | 74 | Pass |
| NVNT | 2-DH5 | 2480 | Ant1 | No-Hopping | 2500 | -58.24 | 2 | 1.12 | 40.14 | Average | 54 | Pass |
| NVNT | 3-DH5 | 2402 | Ant1 | No-Hopping | 2310 | -51.45 | 2 | - | 45.81 | Peak | 74 | Pass |
| NVNT | 3-DH5 | 2402 | Ant1 | No-Hopping | 2310 | -58.66 | 2 | 1.12 | 39.72 | Average | 54 | Pass |
| NVNT | 3-DH5 | 2402 | Ant1 | No-Hopping | 2311.92 | -46.77 | 2 | - | 50.49 | Peak | 74 | Pass |
| NVNT | 3-DH5 | 2402 | Ant1 | No-Hopping | 2345.232 | -57.96 | 2 | 1.12 | 40.42 | Average | 54 | Pass |
| NVNT | 3-DH5 | 2402 | Ant1 | No-Hopping | 2390 | -50.97 | 2 | - | 46.29 | Peak | 74 | Pass |
| NVNT | 3-DH5 | 2402 | Ant1 | No-Hopping | 2390 | -58.73 | 2 | 1.12 | 39.65 | Average | 54 | Pass |
| NVNT | 3-DH5 | 2480 | Ant1 | No-Hopping | 2483.5 | -48.5 | 2 | - | 48.76 | Peak | 74 | Pass |
| NVNT | 3-DH5 | 2480 | Ant1 | No-Hopping | 2483.5 | -57.35 | 2 | 1.12 | 41.03 | Average | 54 | Pass |
| NVNT | 3-DH5 | 2480 | Ant1 | No-Hopping | 2485.192 | -45.96 | 2 | - | 51.3 | Peak | 74 | Pass |
| NVNT | 3-DH5 | 2480 | Ant1 | No-Hopping | 2484.016 | -57.18 | 2 | 1.12 | 41.2 | Average | 54 | Pass |
| NVNT | 3-DH5 | 2480 | Ant1 | No-Hopping | 2500 | -50.28 | 2 | - | 46.98 | Peak | 74 | Pass |
| NVNT | 3-DH5 | 2480 | Ant1 | No-Hopping | 2500 | -57.98 | 2 | 1.12 | 40.4 | Average | 54 | Pass |

Test Graphs

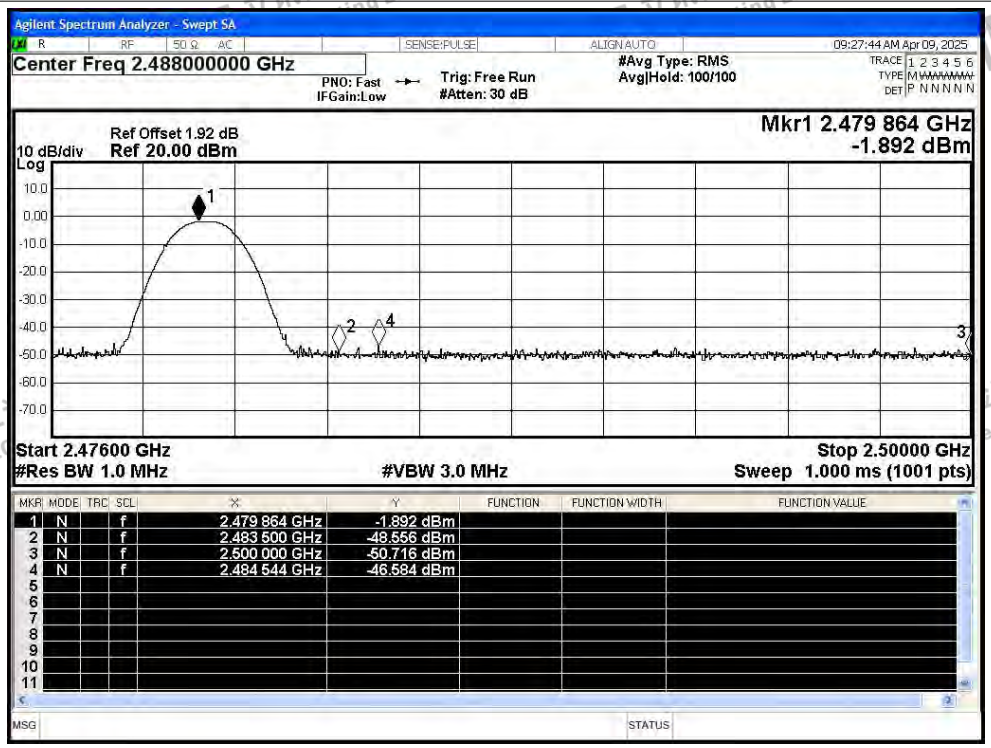
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak



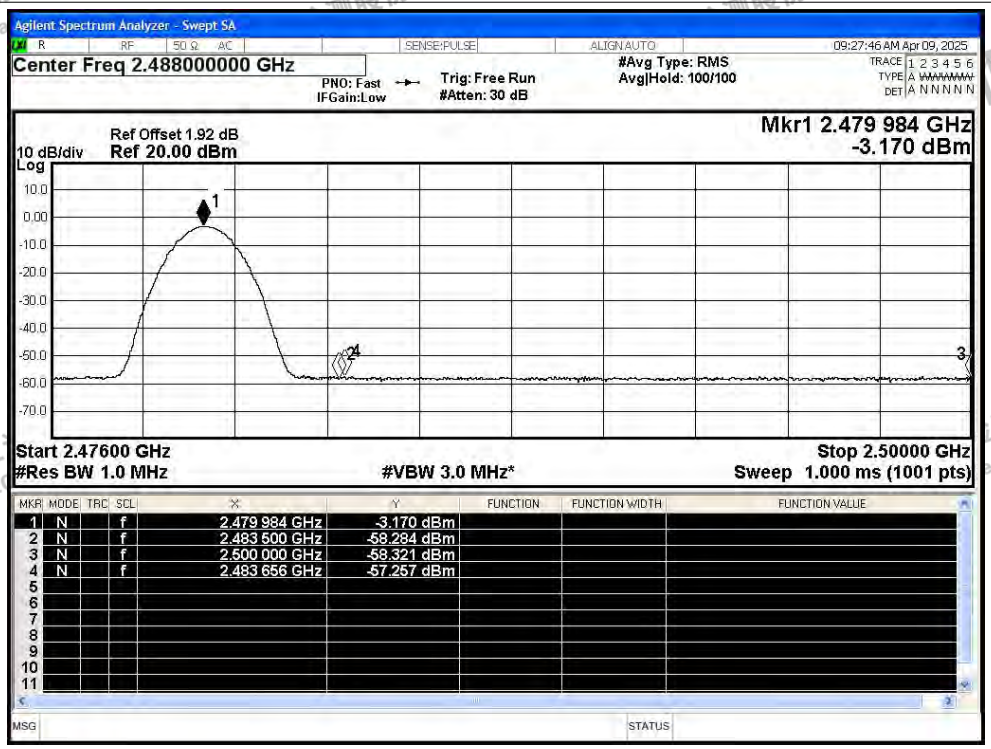

Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average



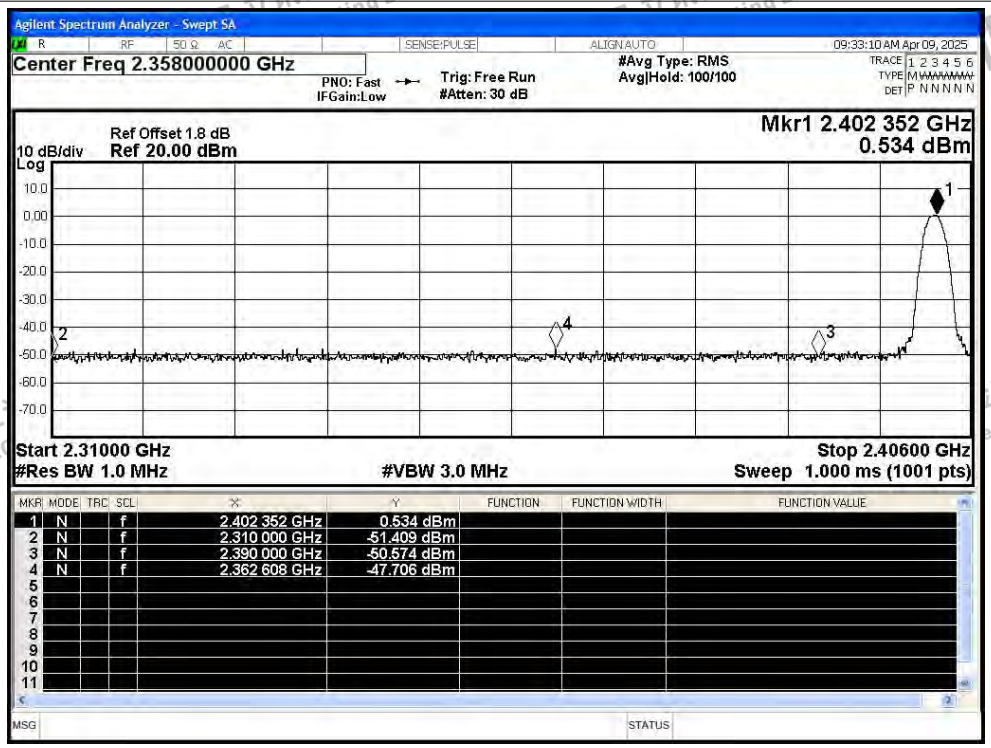
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



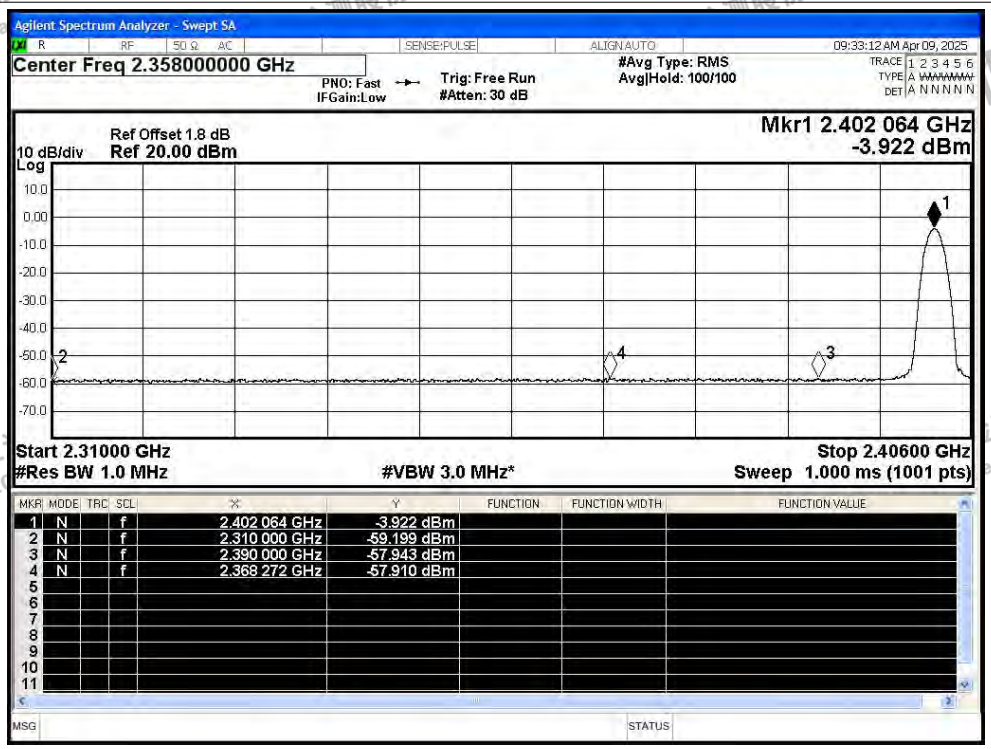

Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average



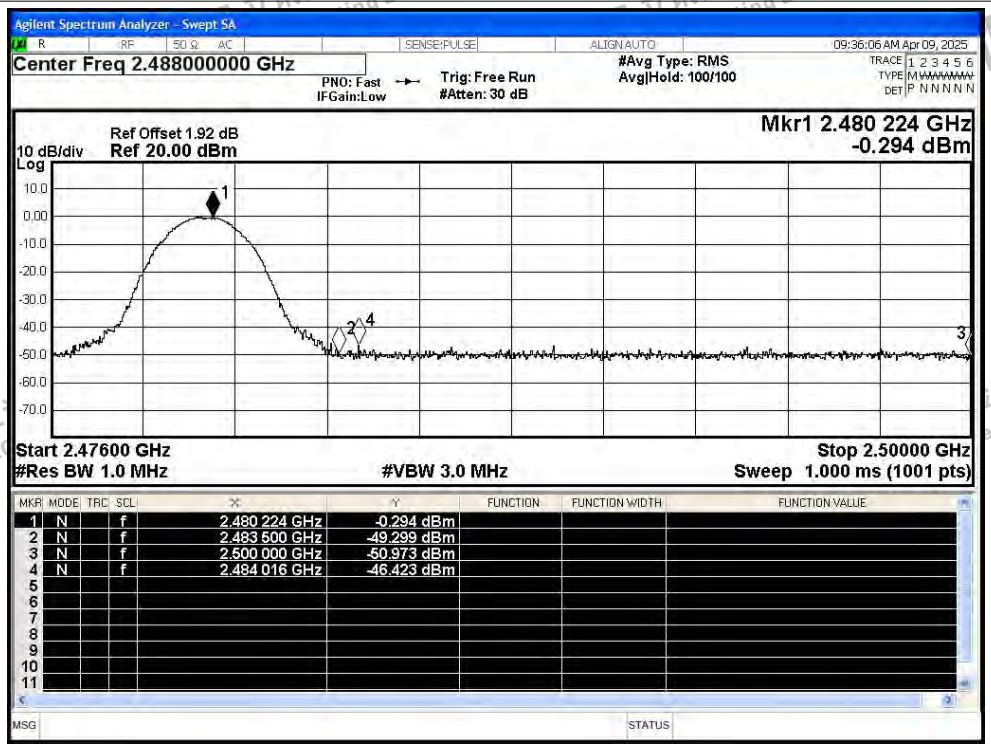
Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



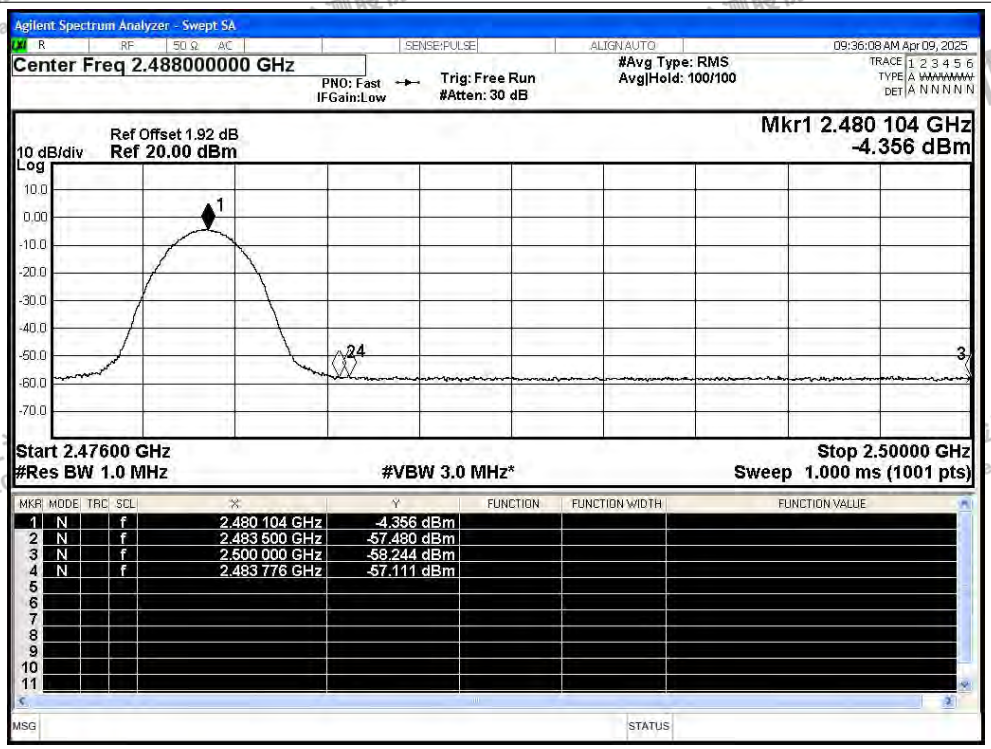

Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average



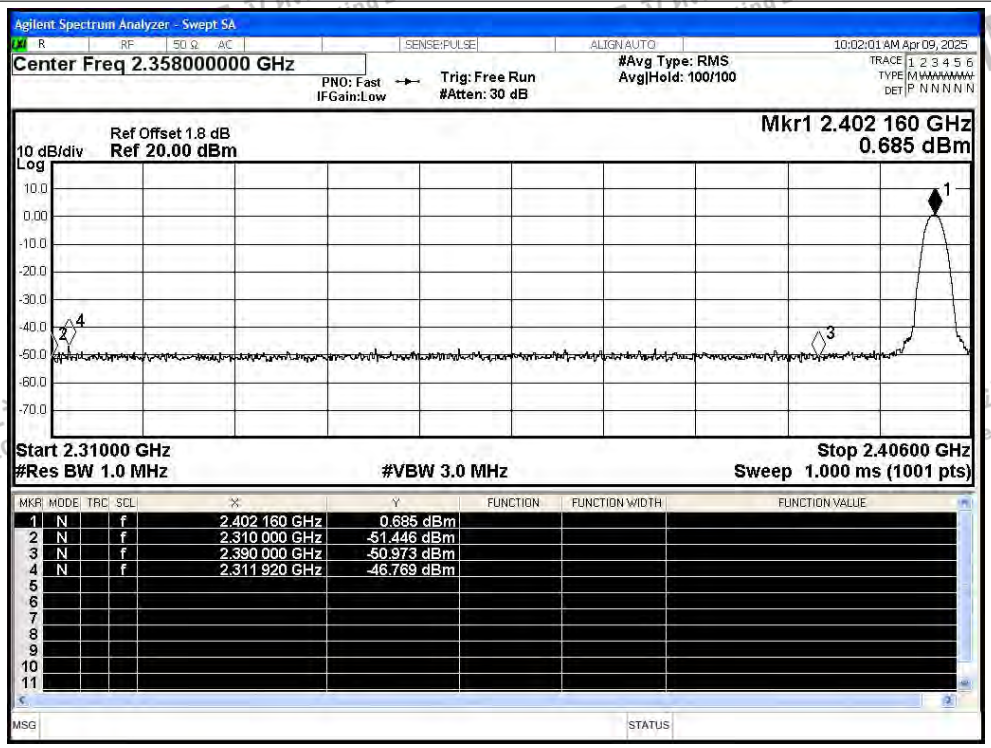
Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



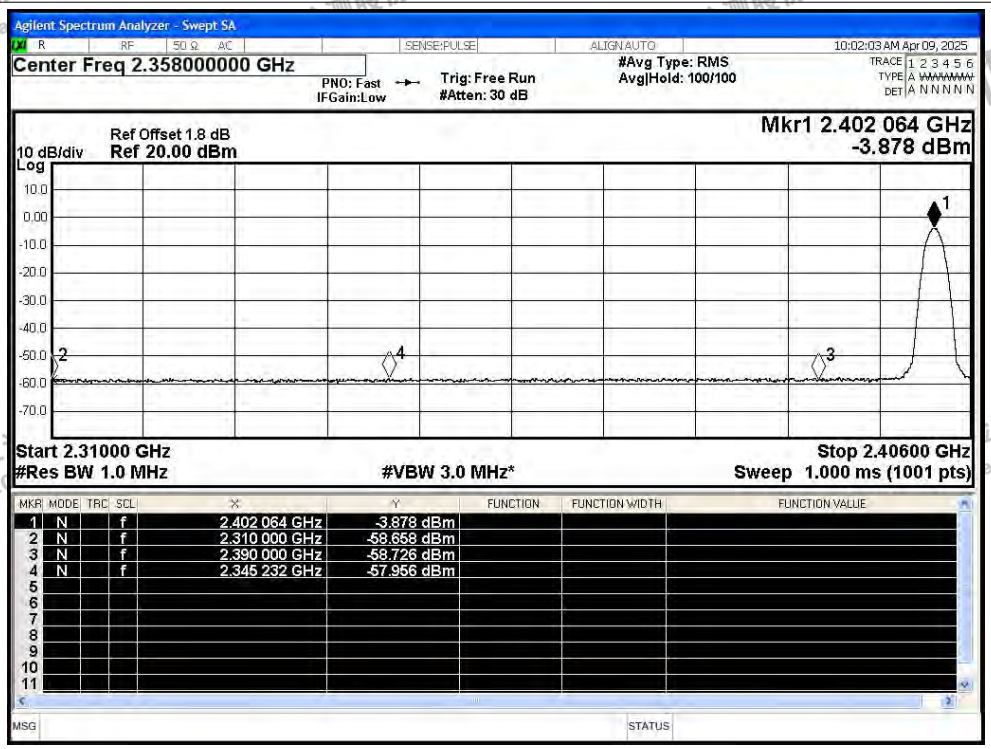

Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average



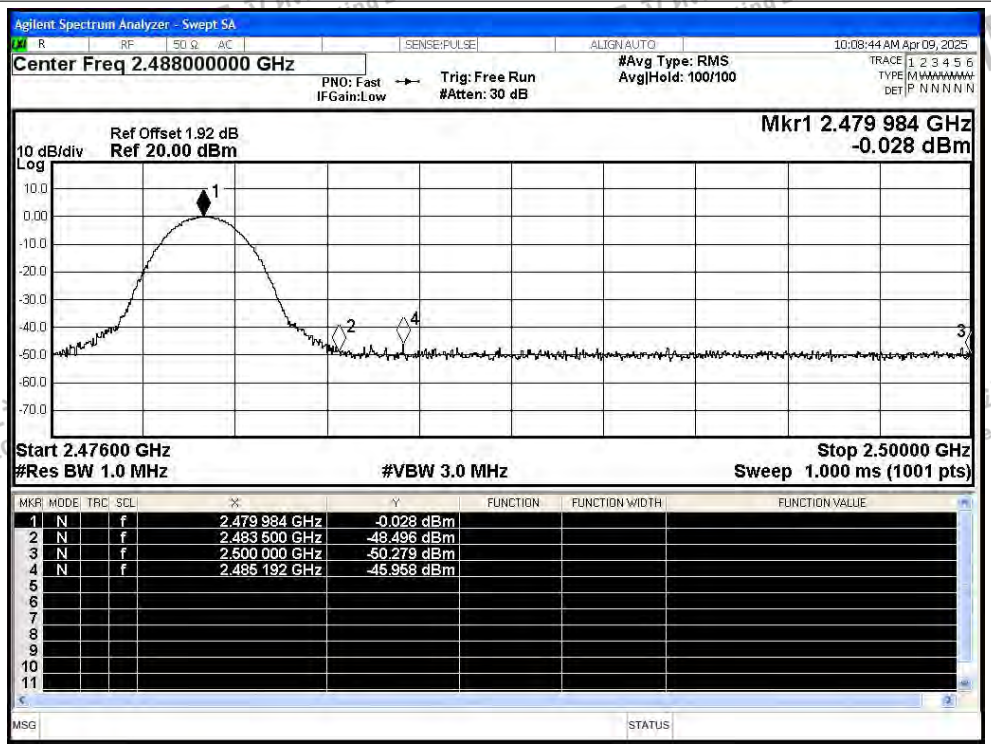
Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

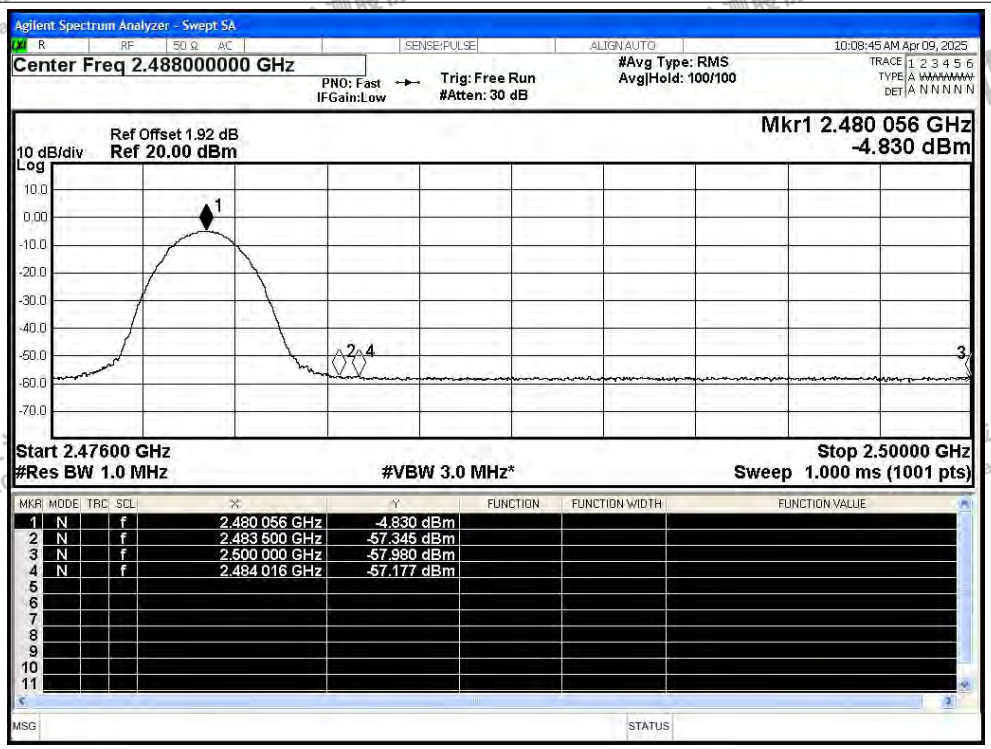



Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average



Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak




Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Average