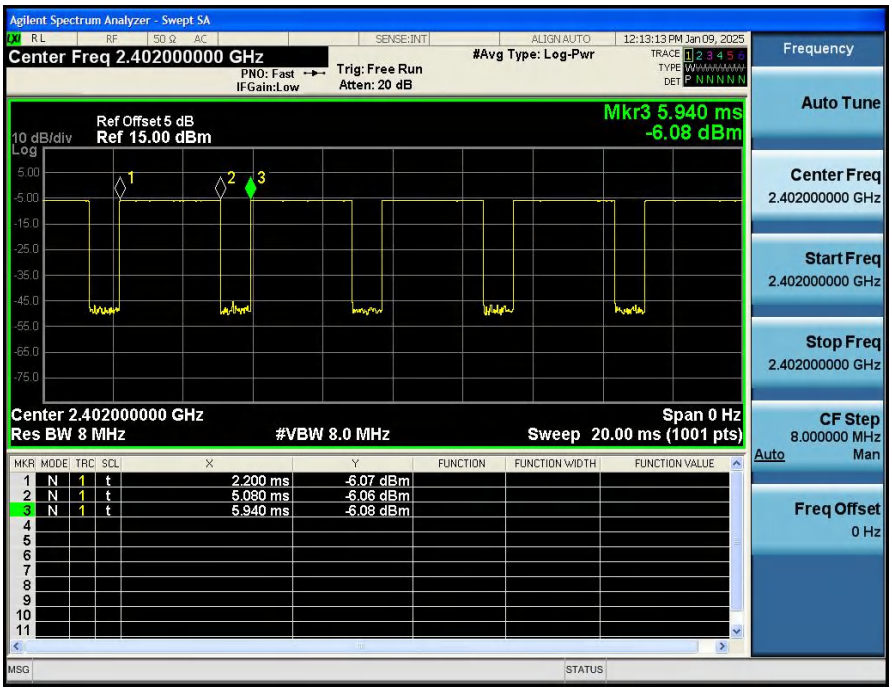
# Appendix Test Data

| | | | |
|---|---|---|---|
| Report No.: | 1819C40098512501 | Test Sample No.: | 1-2-2 |
| Start Test Date: | 2024-12-12 | Finish Test Date: | 2025-1-9 |
| Test Engineer: | Joker Huang | Auditor: | Justin Feng |
| Temperature: | 22.5℃ | Relative Humidity: | 55% |
| Pressure: | 101kPa | | |

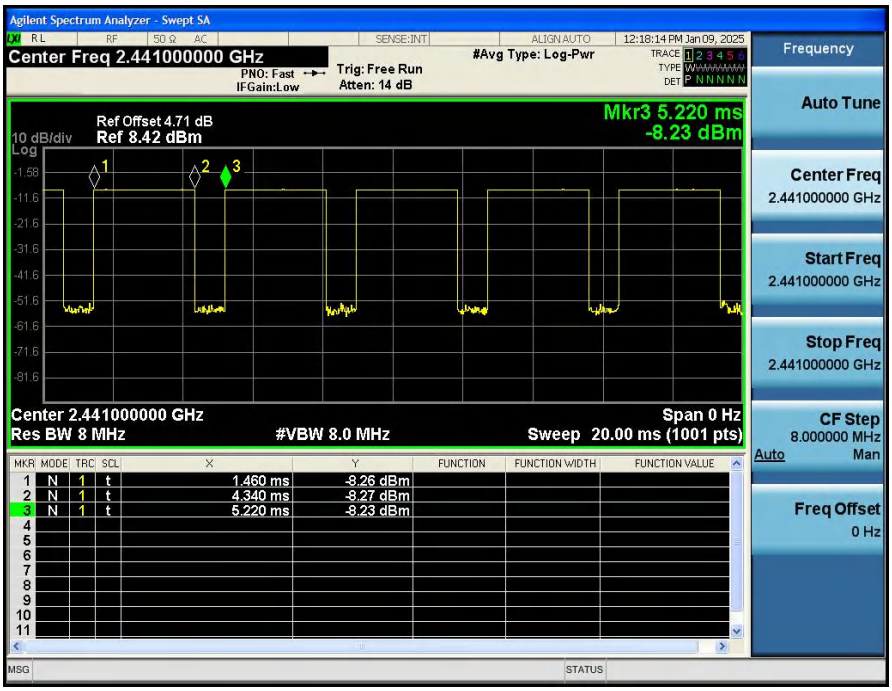
## Appendix A: Duty Cycle

| Condition | Antenna | Rate | Frequency (MHz) | Dutycycle(%) | Duty_factor |
|---|---|---|---|---|---|
| NVNT | ANT1 | 1-DH5 | 2402.00 | 77.54 | 1.10 |
| NVNT | ANT1 | 1-DH5 | 2441.00 | 77.13 | 1.13 |
| NVNT | ANT1 | 1-DH5 | 2480.00 | 77.54 | 1.10 |
| NVNT | ANT1 | 2-DH5 | 2402.00 | 77.13 | 1.13 |
| NVNT | ANT1 | 2-DH5 | 2441.00 | 77.66 | 1.10 |
| NVNT | ANT1 | 2-DH5 | 2480.00 | 77.66 | 1.10 |
| NVNT | ANT1 | 3-DH5 | 2402.00 | 77.54 | 1.10 |
| NVNT | ANT1 | 3-DH5 | 2441.00 | 77.54 | 1.10 |
| NVNT | ANT1 | 3-DH5 | 2480.00 | 77.66 | 1.10 |

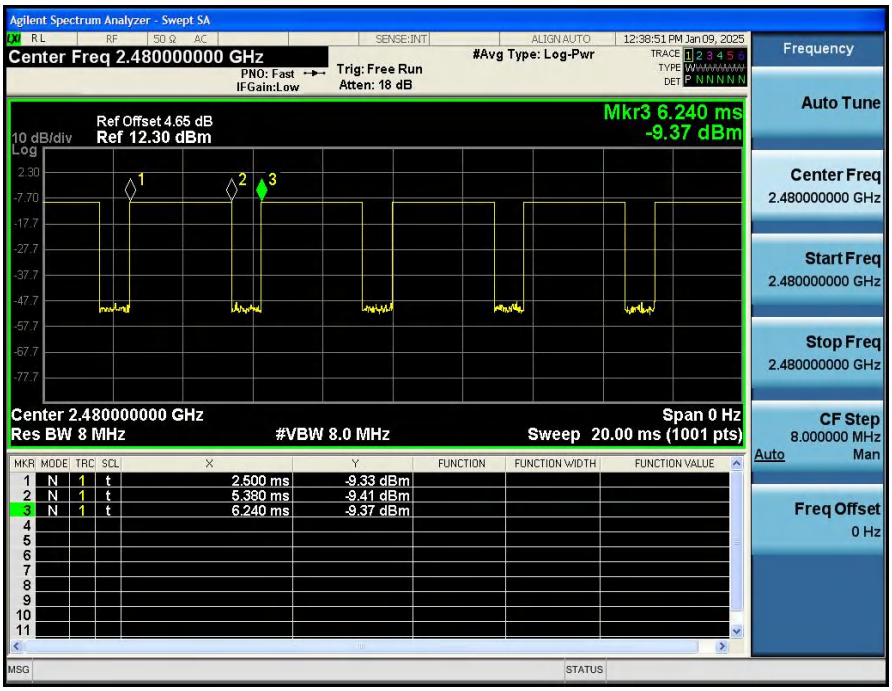
| Duty_Cycle_NVNT_ANT1_1-DH5_2402 |
|---|



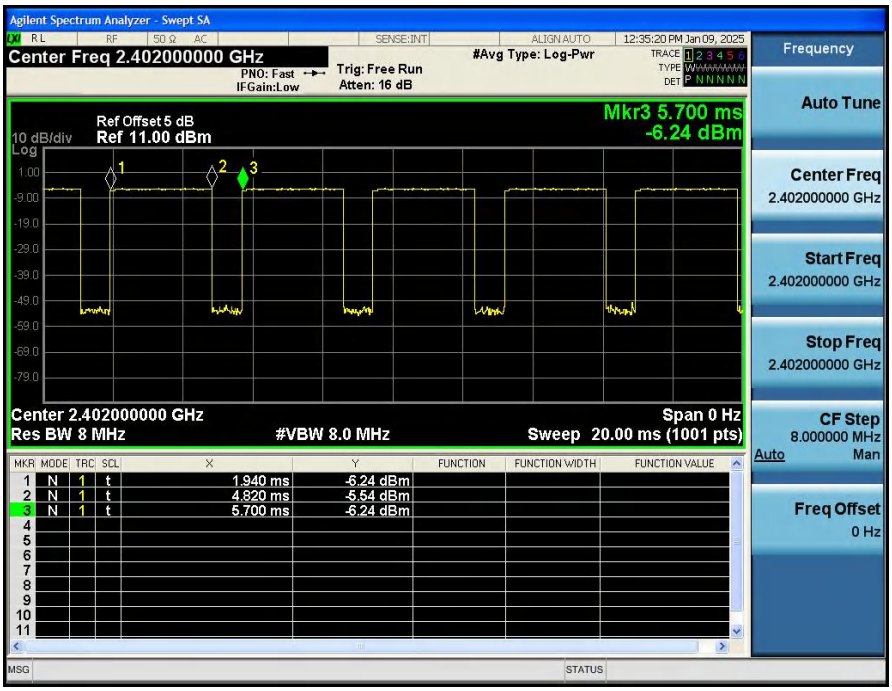

**Duty_Cycle_NVNT_ANT1_1-DH5_2441**



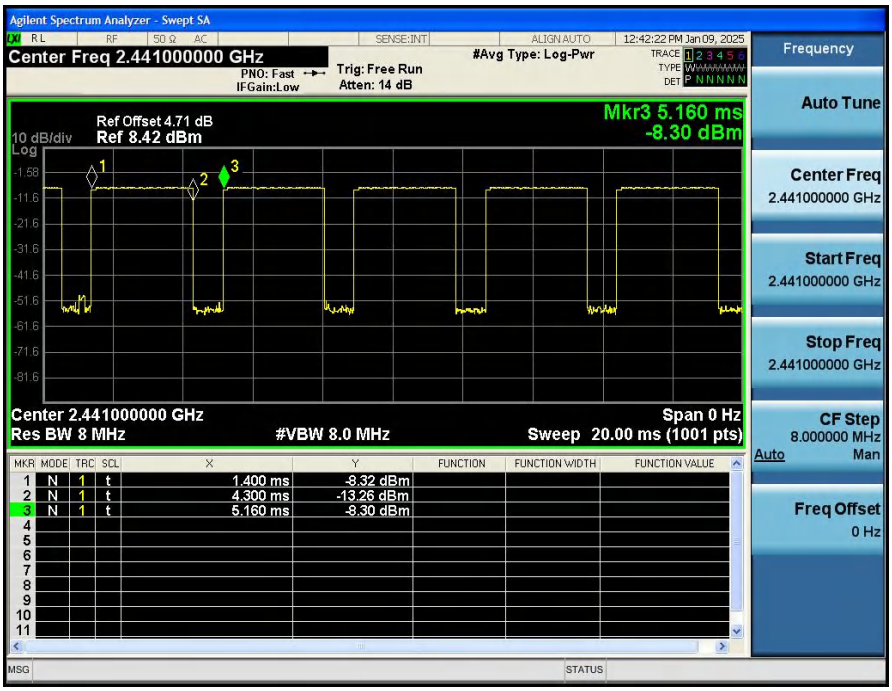

**Duty_Cycle_NVNT_ANT1_1-DH5_2480**



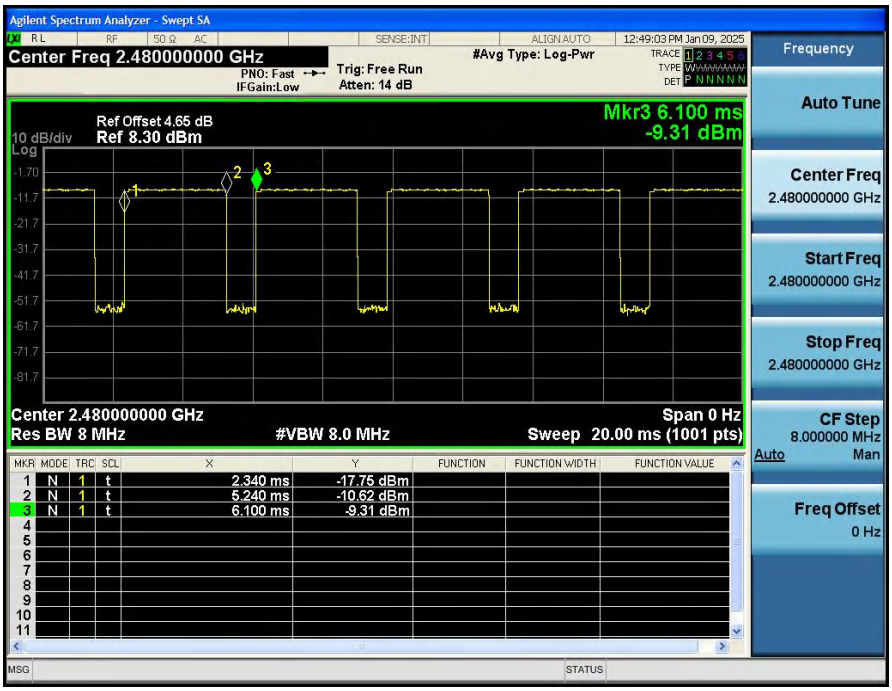

**Duty_Cycle_NVNT_ANT1_2-DH5_2402**



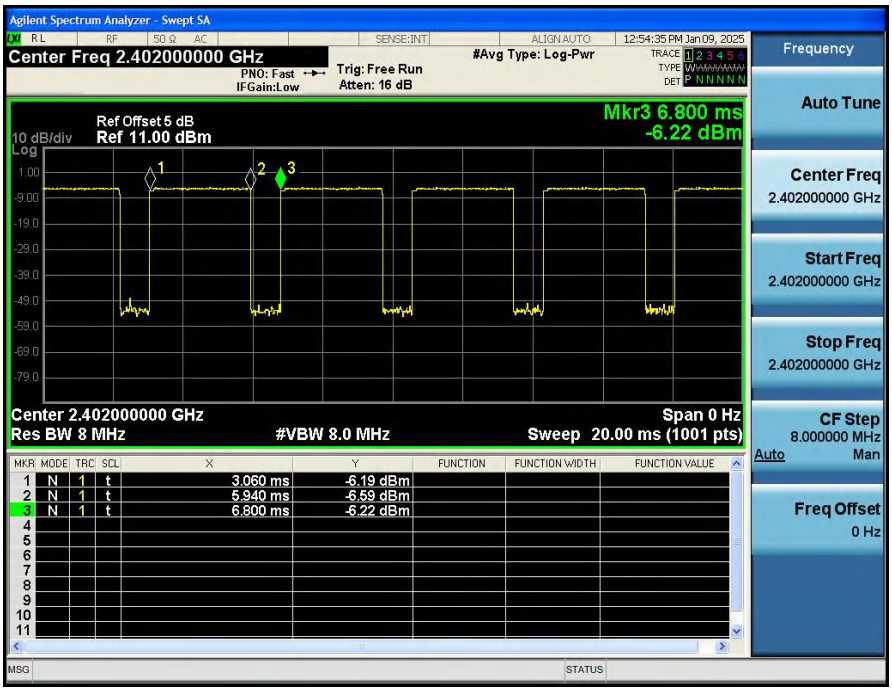

**Duty_Cycle_NVNT_ANT1_2-DH5_2441**



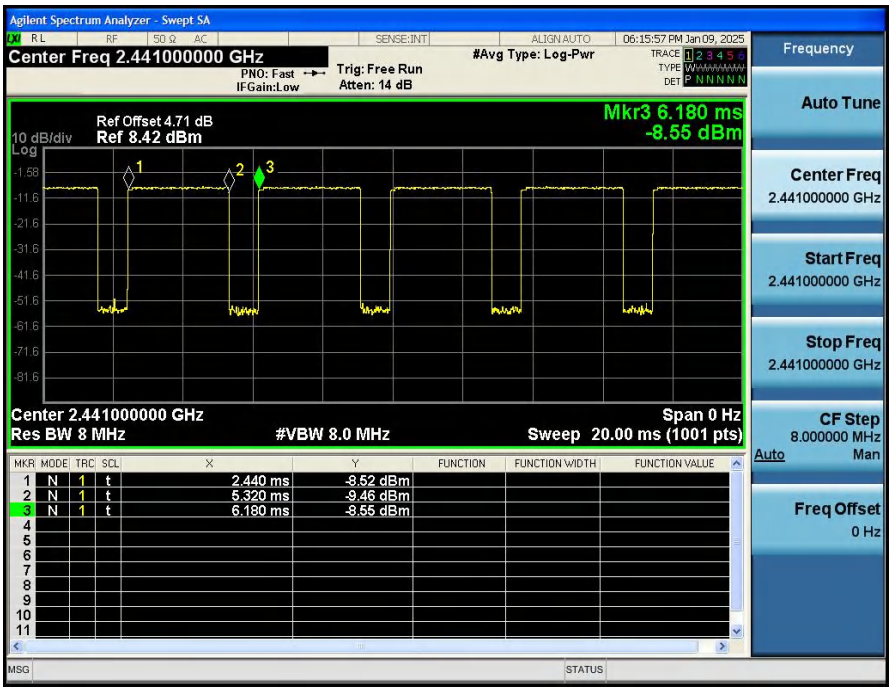

**Duty_Cycle_NVNT_ANT1_2-DH5_2480**



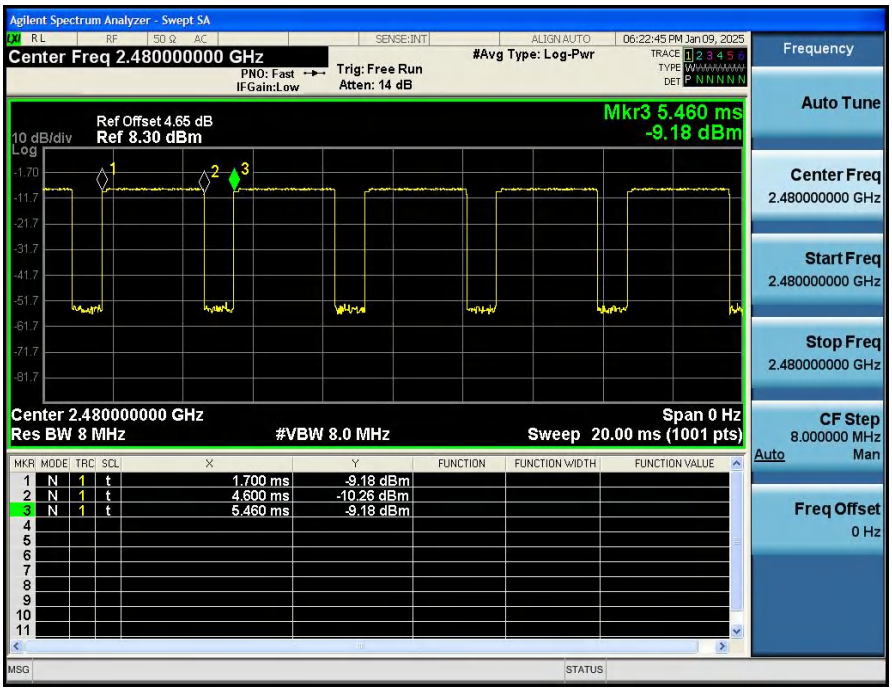

**Duty_Cycle_NVNT_ANT1_3-DH5_2402**




**Duty_Cycle_NVNT_ANT1_3-DH5_2441**



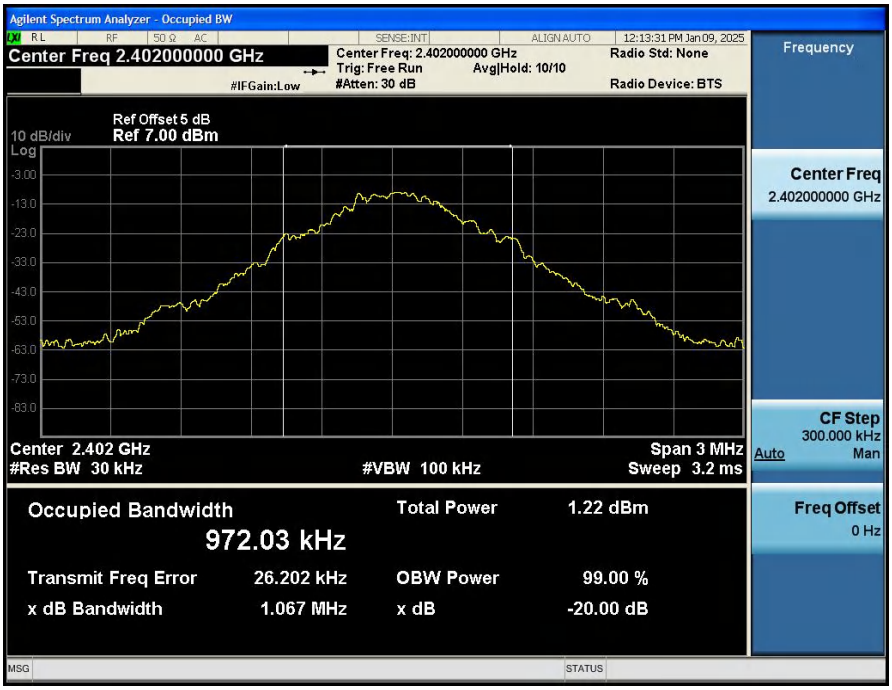

**Duty_Cycle_NVNT_ANT1_3-DH5_2480**


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.480000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 14 dB
#Avg Type: Log-Pwr
06:22:45 PM Jan 09, 2025
Ref Offset 4.65 dB
10 dB/div
Ref 8.30 dBm
Log
Mkr3 5.460 ms
-9.18 dBm
Center 2.480000000 GHz
Res BW 8 MHz
#VBW 8.0 MHz
Span 0 Hz
Sweep 20.00 ms (1001 pts)
1 N 1 t 1.700 ms -9.18 dBm
2 N 1 t 4.600 ms -10.26 dBm
3 N 1 t 5.460 ms -9.18 dBm
Frequency
Auto Tune
Center Freq
2.480000000 GHz
Start Freq
2.480000000 GHz
Stop Freq
2.480000000 GHz
CF Step
8.000000 MHz
Auto
Man
Freq Offset
0 Hz

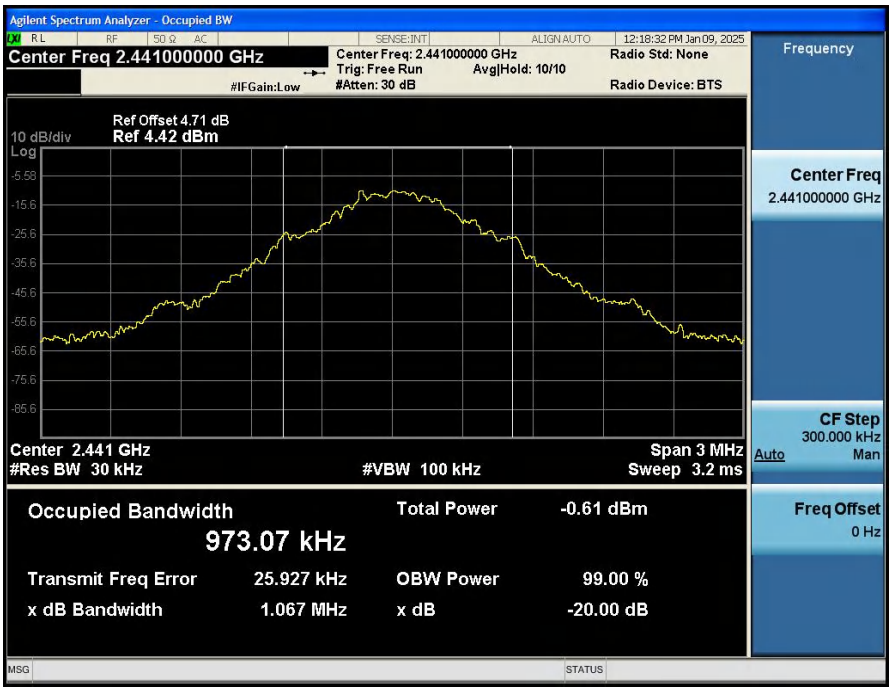
## Appendix B: -20dB Bandwidth

| Condition | Antenna | Modulation | Frequency (MHz) | -20dB BW(MHz) | if larger than CFS |
|---|---|---|---|---|---|
| NVNT | ANT1 | 1-DH5 | 2402.00 | 1.067 | Yes |
| NVNT | ANT1 | 1-DH5 | 2441.00 | 1.067 | Yes |
| NVNT | ANT1 | 1-DH5 | 2480.00 | 1.068 | Yes |
| NVNT | ANT1 | 2-DH5 | 2402.00 | 1.344 | Yes |
| NVNT | ANT1 | 2-DH5 | 2441.00 | 1.338 | Yes |
| NVNT | ANT1 | 2-DH5 | 2480.00 | 1.336 | Yes |
| NVNT | ANT1 | 3-DH5 | 2402.00 | 1.289 | Yes |
| NVNT | ANT1 | 3-DH5 | 2441.00 | 1.290 | Yes |
| NVNT | ANT1 | 3-DH5 | 2480.00 | 1.304 | Yes |

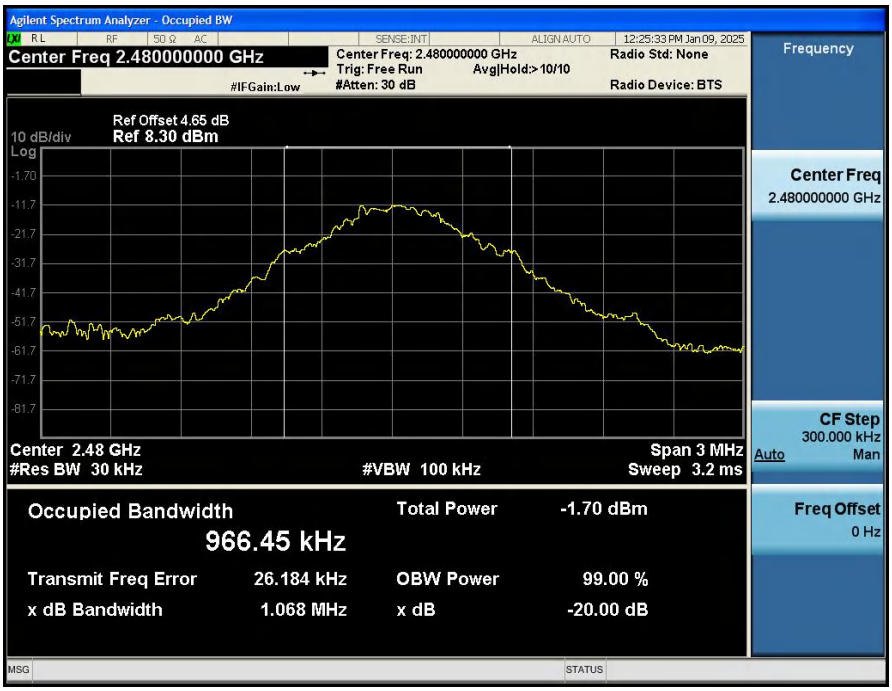
**-20dB_Bandwidth_NVNT_ANT1_1-DH5_2402_00**



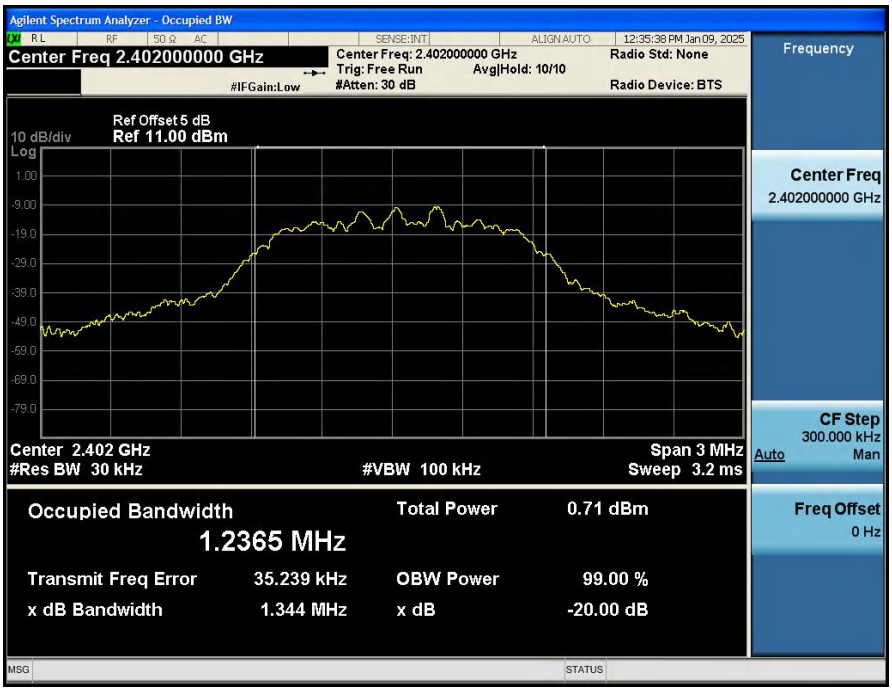

**-20dB_Bandwidth_NVNT_ANT1_1-DH5_2441_00**



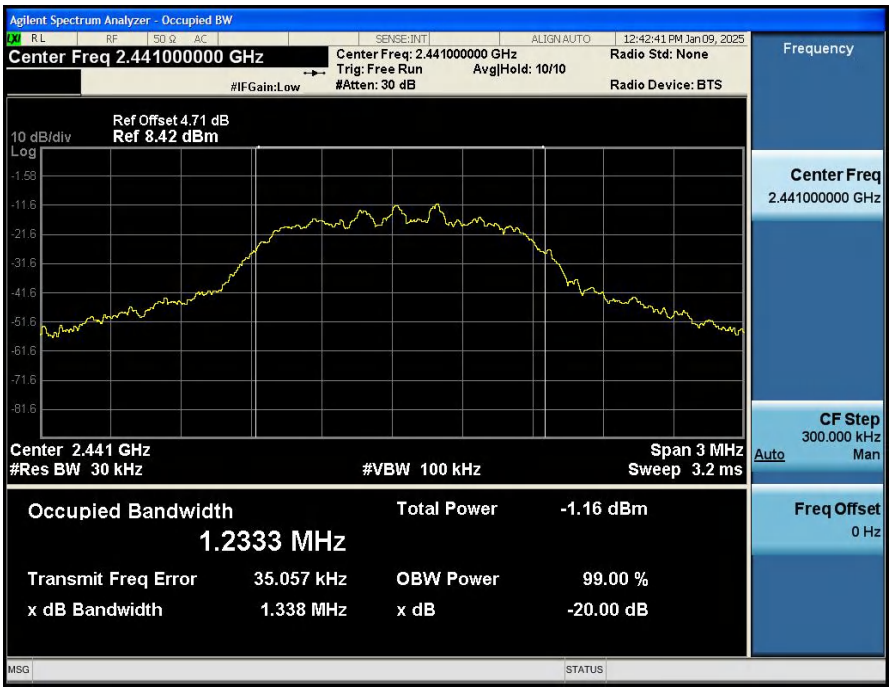

**-20dB_Bandwidth_NVNT_ANT1_1-DH5_2480_00**



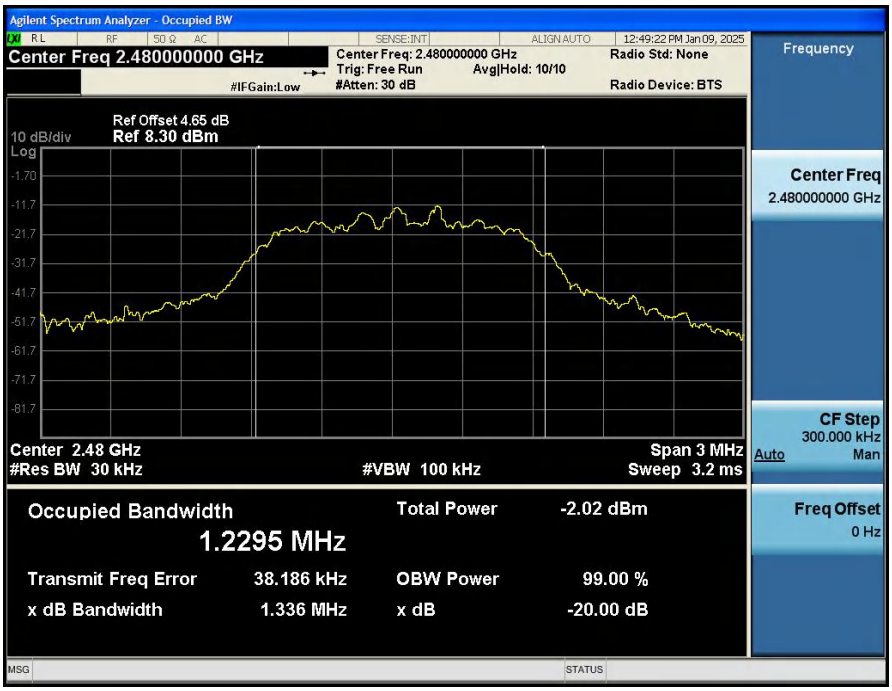

**-20dB_Bandwidth_NVNT_ANT1_2-DH5_2402_00**



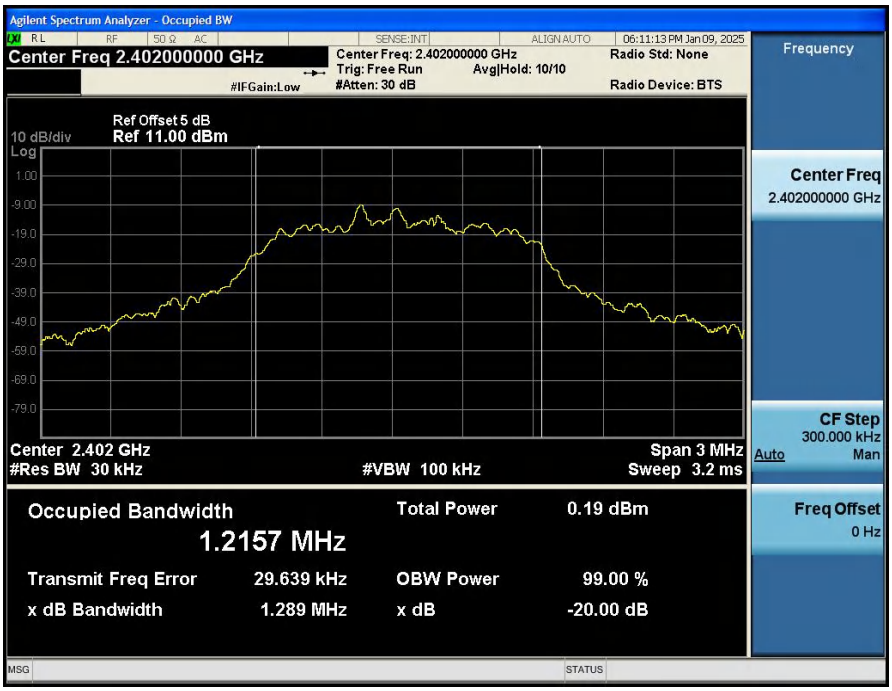

**-20dB_Bandwidth_NVNT_ANT1_2-DH5_2441_00**



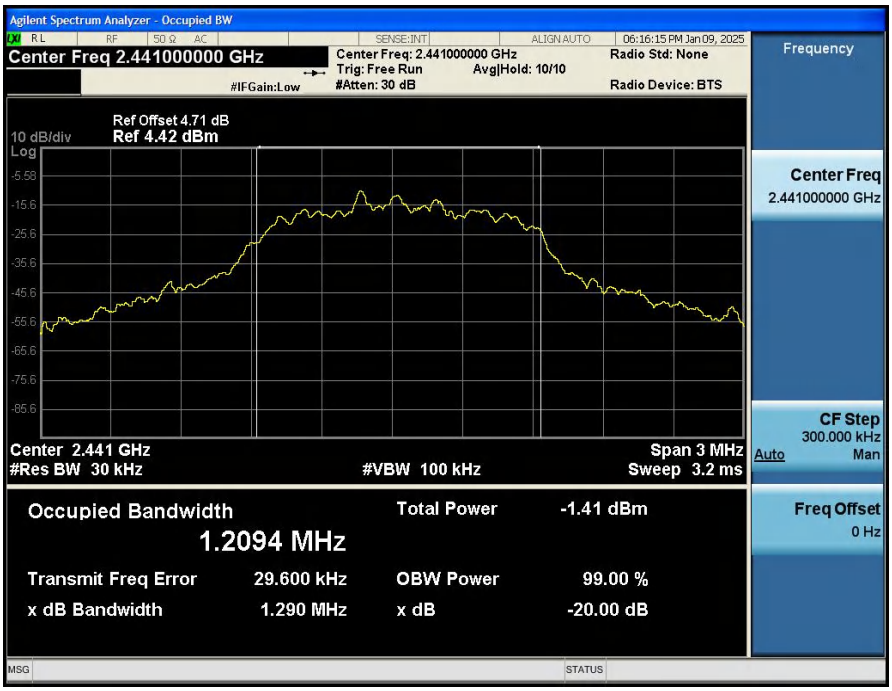

**-20dB_Bandwidth_NVNT_ANT1_2-DH5_2480_00**



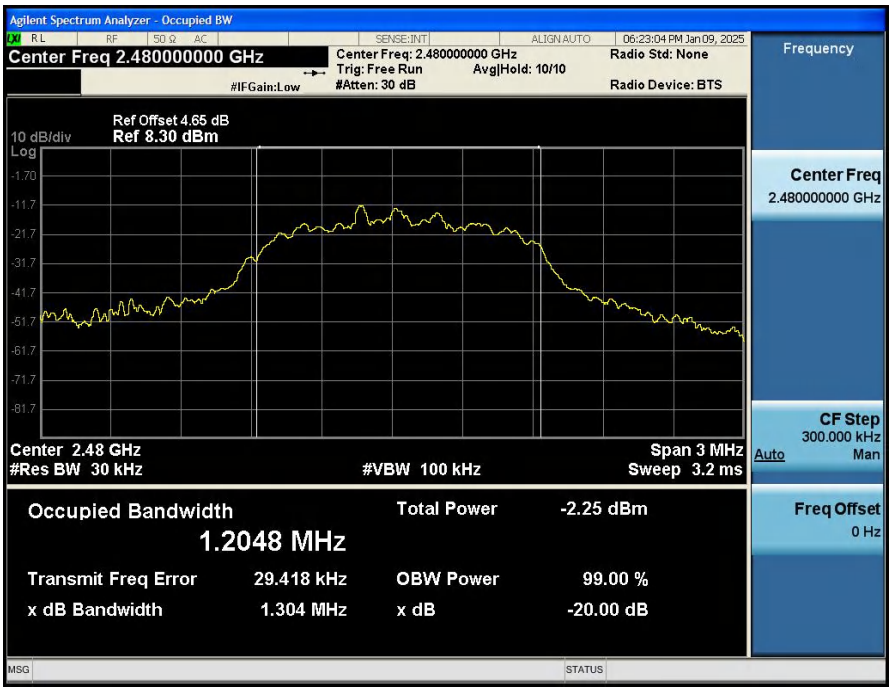

**-20dB_Bandwidth_NVNT_ANT1_3-DH5_2402_00**




**-20dB_Bandwidth_NVNT_ANT1_3-DH5_2441_00**




**-20dB_Bandwidth_NVNT_ANT1_3-DH5_2480_00**

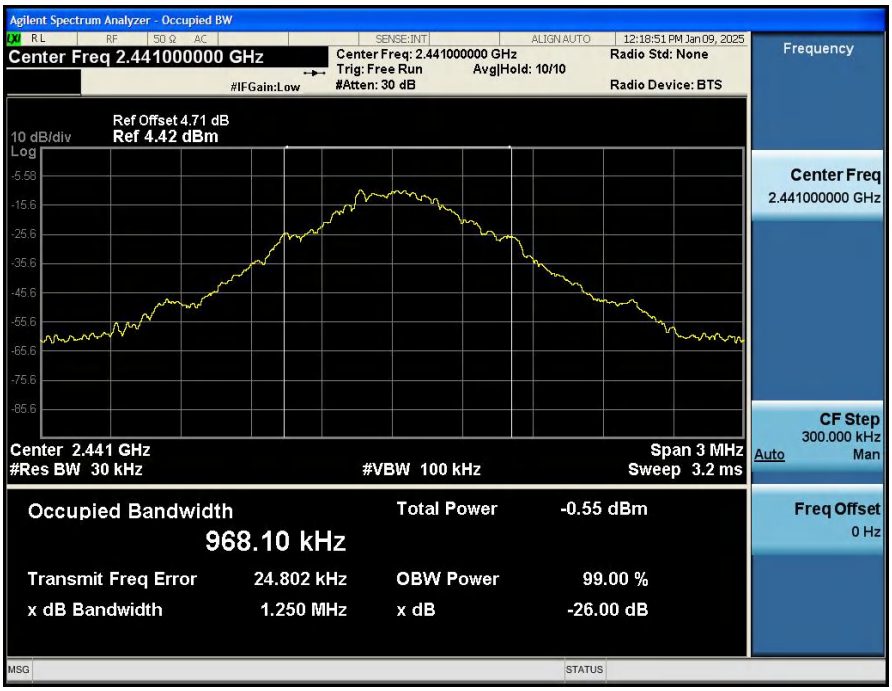


## Appendix C: 99% Occupied Bandwidth

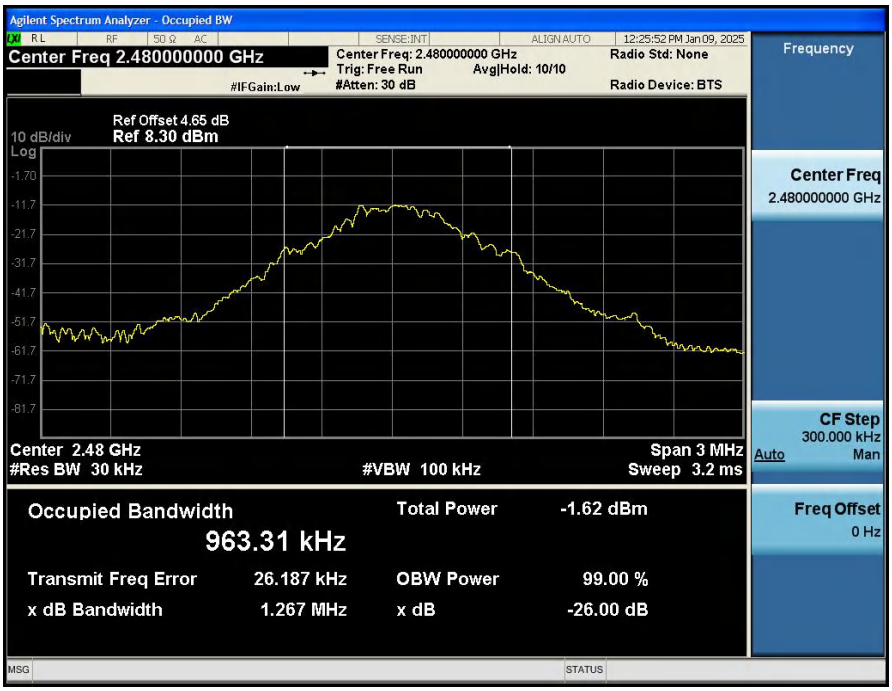
| Condition | Antenna | Modulation | Frequency (MHz) | 99%BW(MHz) |
|---|---|---|---|---|
| NVNT | ANT1 | 1-DH5 | 2402.00 | 0.970 |
| NVNT | ANT1 | 1-DH5 | 2441.00 | 0.968 |
| NVNT | ANT1 | 1-DH5 | 2480.00 | 0.963 |
| NVNT | ANT1 | 2-DH5 | 2402.00 | 1.239 |
| NVNT | ANT1 | 2-DH5 | 2441.00 | 1.231 |
| NVNT | ANT1 | 2-DH5 | 2480.00 | 1.226 |
| NVNT | ANT1 | 3-DH5 | 2402.00 | 1.215 |
| NVNT | ANT1 | 3-DH5 | 2441.00 | 1.214 |
| NVNT | ANT1 | 3-DH5 | 2480.00 | 1.201 |

**99%_Occupied_Bandwidth_NVNT_ANT1_1-DH5_2402_00**

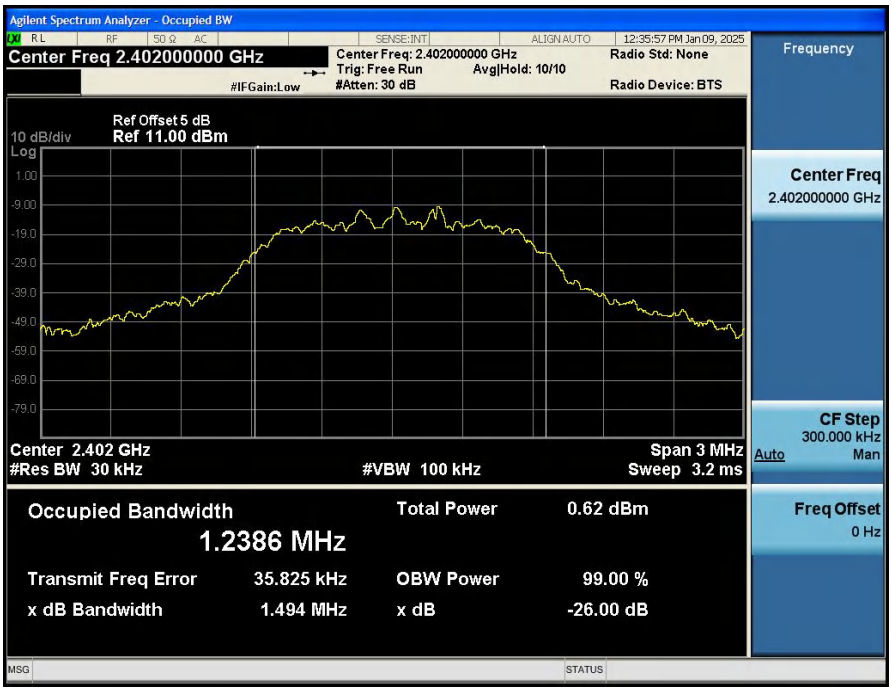
**99%_Occupied_Bandwidth_NVNT_ANT1_1-DH5_2441_00**



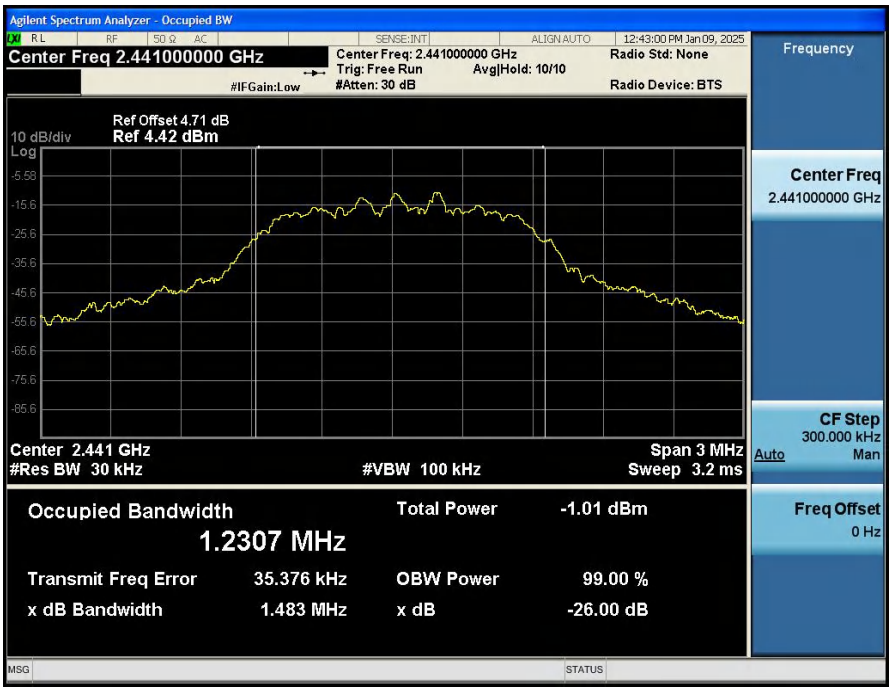

**99%_Occupied_Bandwidth_NVNT_ANT1_1-DH5_2480_00**



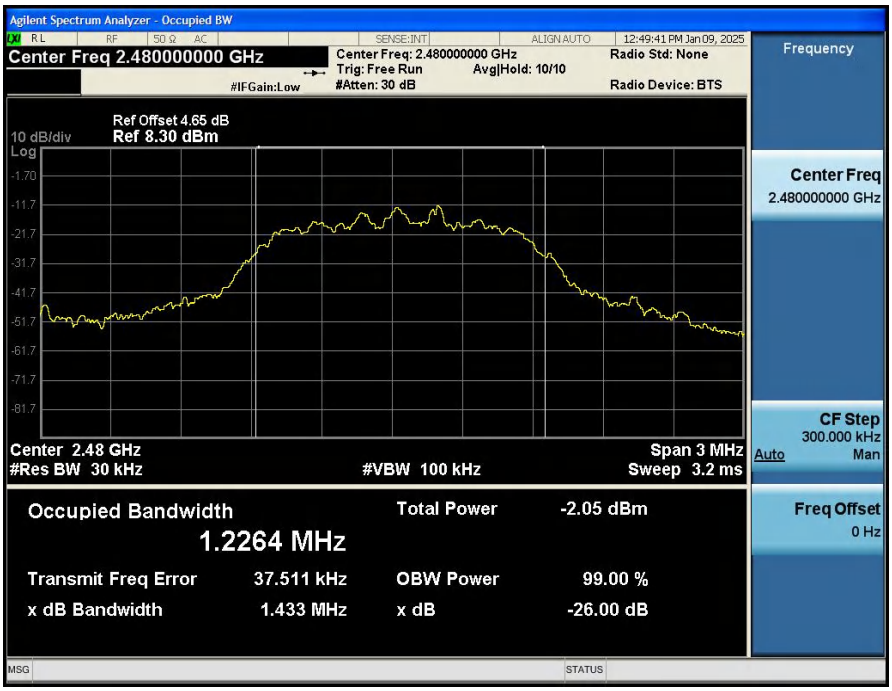

**99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2402_00**




**99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2441_00**

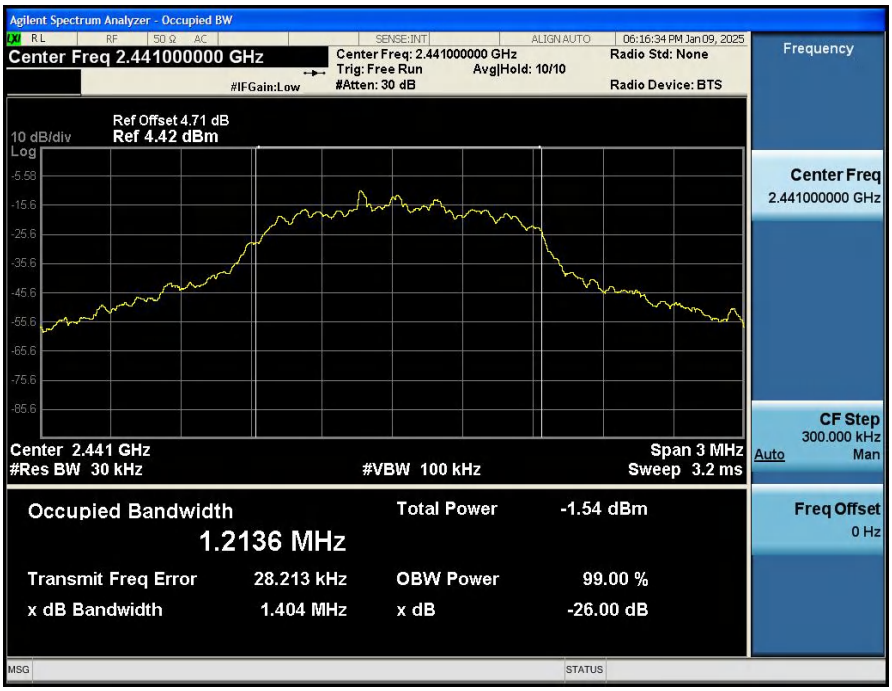



**99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2480_00**

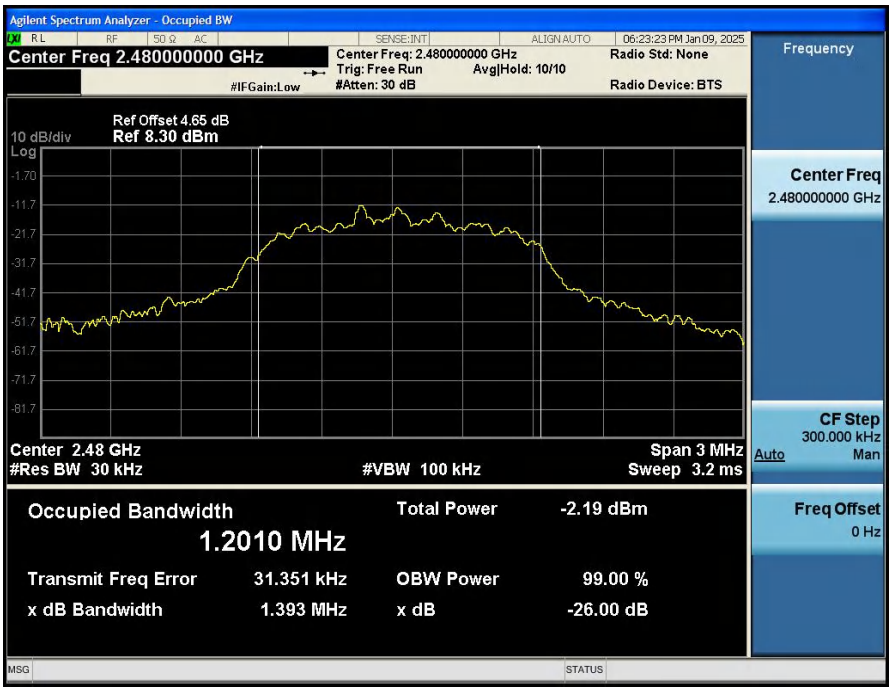



**99%_Occupied_Bandwidth_NVNT_ANT1_3-DH5_2402_00**

**99%_Occupied_Bandwidth_NVNT_ANT1_3-DH5_2441_00**




**99%_Occupied_Bandwidth_NVNT_ANT1_3-DH5_2480_00**



## Appendix D: Peak Output Power

| Condition | Antenna | Modulation | Frequency (MHz) | Max. Conducted Power(dBm) | Max. Conducted Power(mW) | Limit(mW) | Result |
|---|---|---|---|---|---|---|---|
| NVNT | ANT1 | 1-DH5 | 2402.00 | -6.02 | 0.25 | 125 | Pass |
| NVNT | ANT1 | 1-DH5 | 2441.00 | -8.20 | 0.15 | 125 | Pass |
| NVNT | ANT1 | 1-DH5 | 2480.00 | -8.89 | 0.13 | 125 | Pass |
| NVNT | ANT1 | 2-DH5 | 2402.00 | -5.34 | 0.29 | 125 | Pass |
| NVNT | ANT1 | 2-DH5 | 2441.00 | -7.41 | 0.18 | 125 | Pass |
| NVNT | ANT1 | 2-DH5 | 2480.00 | -8.11 | 0.15 | 125 | Pass |
| NVNT | ANT1 | 3-DH5 | 2402.00 | **-5.16** | 0.31 | 125 | Pass |
| NVNT | ANT1 | 3-DH5 | 2441.00 | -7.17 | 0.19 | 125 | Pass |
| NVNT | ANT1 | 3-DH5 | 2480.00 | -7.80 | 0.17 | 125 | Pass |

**Peak_Output_Power_NVNT_ANT1_1-DH5_2402_00**

**Peak_Output_Power_NVNT_ANT1_1-DH5_2441_00**

**Peak_Output_Power_NVNT_ANT1_1-DH5_2480_00**

**Peak_Output_Power_NVNT_ANT1_2-DH5_2402_00**

**Peak_Output_Power_NVNT_ANT1_2-DH5_2441_00**

**Peak_Output_Power_NVNT_ANT1_2-DH5_2480_00**

**Peak_Output_Power_NVNT_ANT1_3-DH5_2402_00**

**Peak_Output_Power_NVNT_ANT1_3-DH5_2441_00**

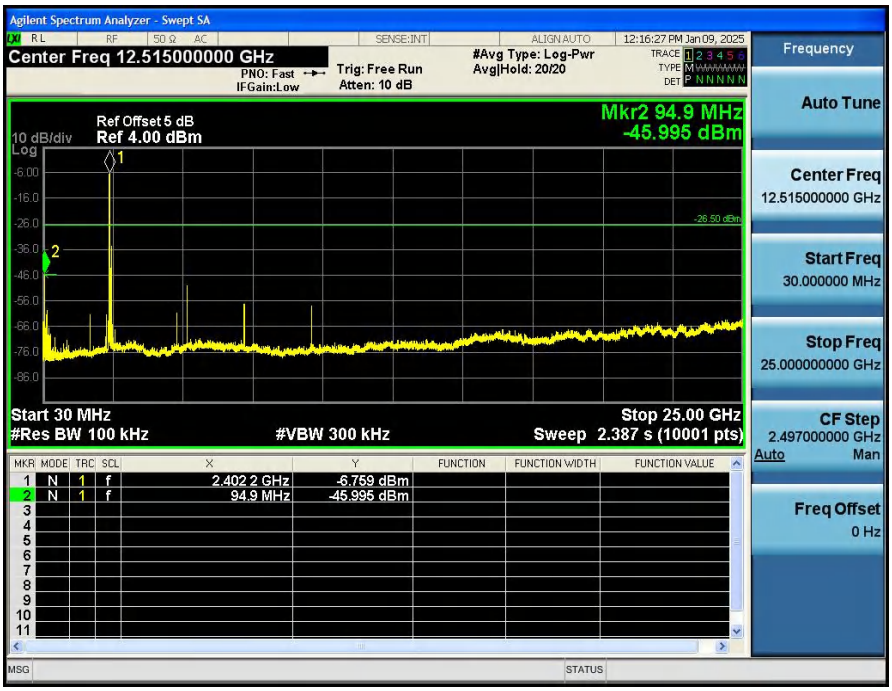
**Peak_Output_Power_NVNT_ANT1_3-DH5_2480_00**

## Appendix E: Spurious Emissions

| Condition | Antenna | Modulation | TX Mode | Ref_level(dBm) | Spurious MAX.Value(dBm) | Limit | Result |
|---|---|---|---|---|---|---|---|
| NVNT | ANT1 | 1-DH5 | 2402.00 | -6.502 | -45.995 | -26.502 | Pass |
| NVNT | ANT1 | 1-DH5 | 2441.00 | -9.014 | -46.566 | -29.014 | Pass |
| NVNT | ANT1 | 1-DH5 | 2480.00 | -9.528 | -46.303 | -29.528 | Pass |
| NVNT | ANT1 | 2-DH5 | 2402.00 | -6.752 | -42.225 | -26.752 | Pass |
| NVNT | ANT1 | 2-DH5 | 2441.00 | -8.723 | -46.065 | -28.723 | Pass |
| NVNT | ANT1 | 2-DH5 | 2480.00 | -9.561 | -55.737 | -29.561 | Pass |
| NVNT | ANT1 | 3-DH5 | 2402.00 | -6.739 | -57.425 | -26.739 | Pass |
| NVNT | ANT1 | 3-DH5 | 2441.00 | -9.114 | -52.165 | -29.114 | Pass |
| NVNT | ANT1 | 3-DH5 | 2480.00 | -9.524 | -55.616 | -29.524 | Pass |

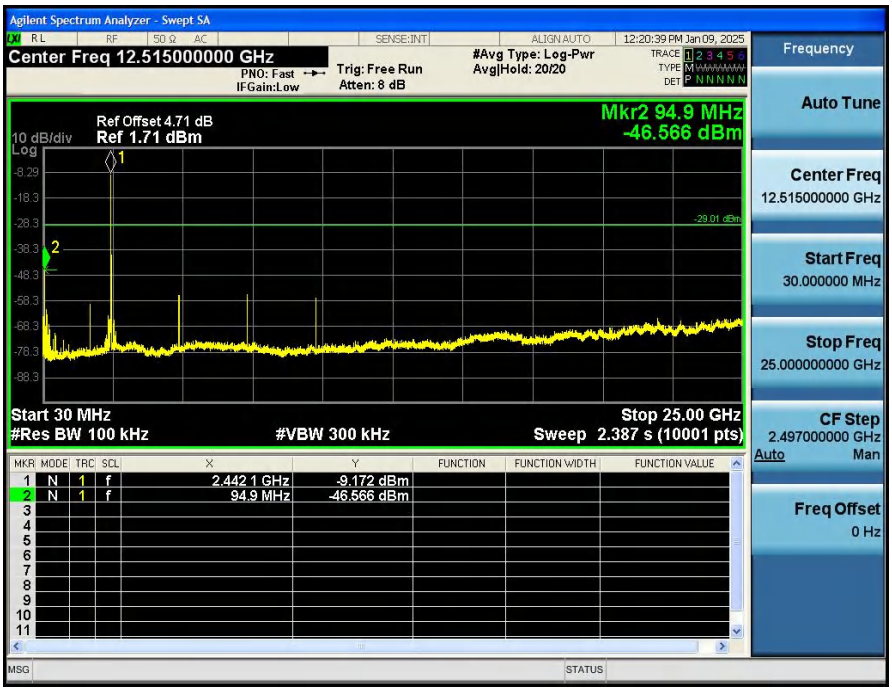
**1_Reference_Level_NVNT_ANT1_1-DH5_2402_00**

**2_Spurious_Emissions_NVNT_ANT1_1-DH5_2402_00**



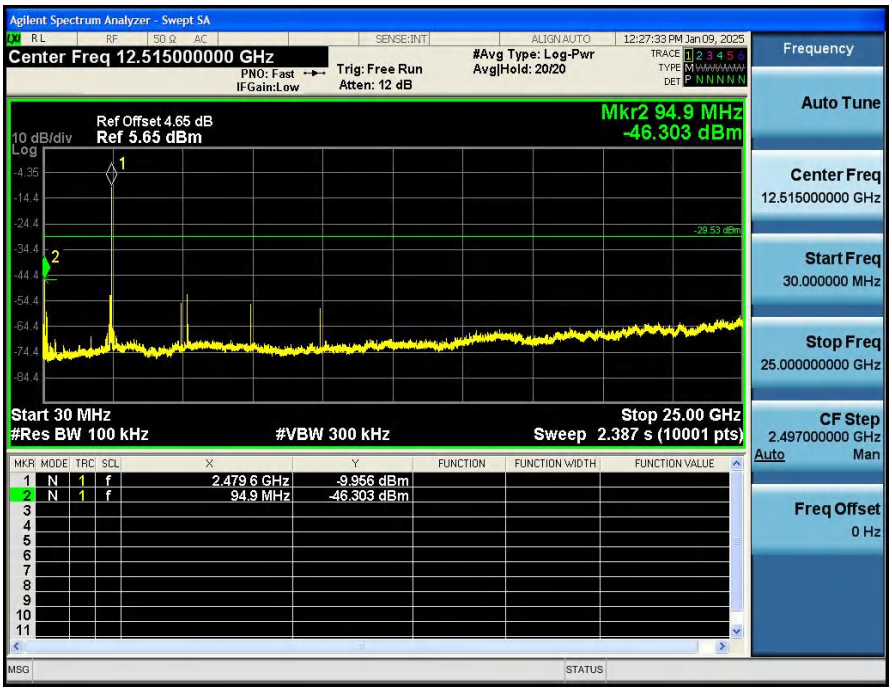

**1_Reference_Level_NVNT_ANT1_1-DH5_2441_00**

**2_Spurious_Emissions_NVNT_ANT1_1-DH5_2441_00**



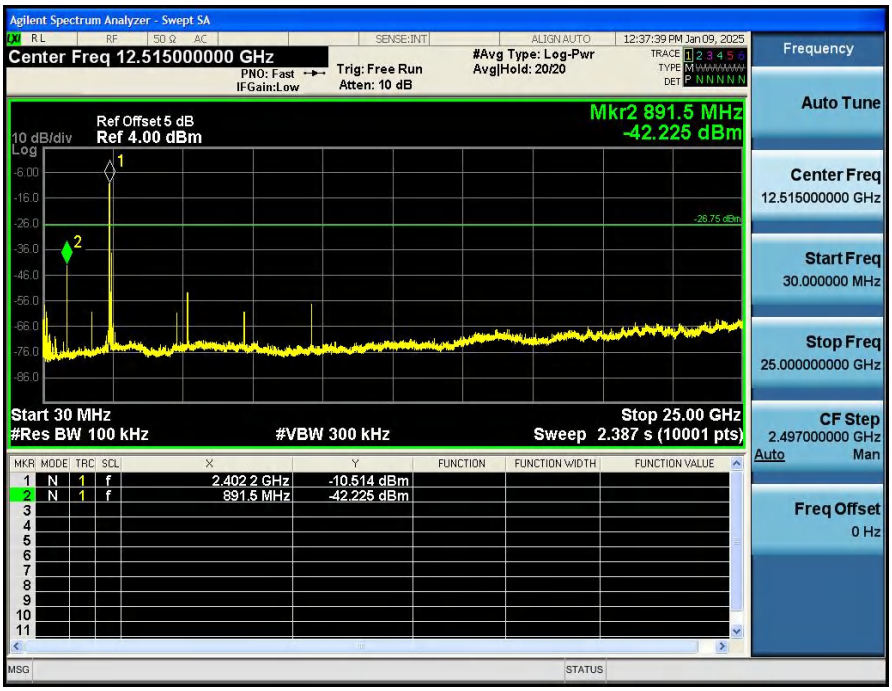

**1_Reference_Level_NVNT_ANT1_1-DH5_2480_00**

**2_Spurious_Emissions_NVNT_ANT1_1-DH5_2480_00**



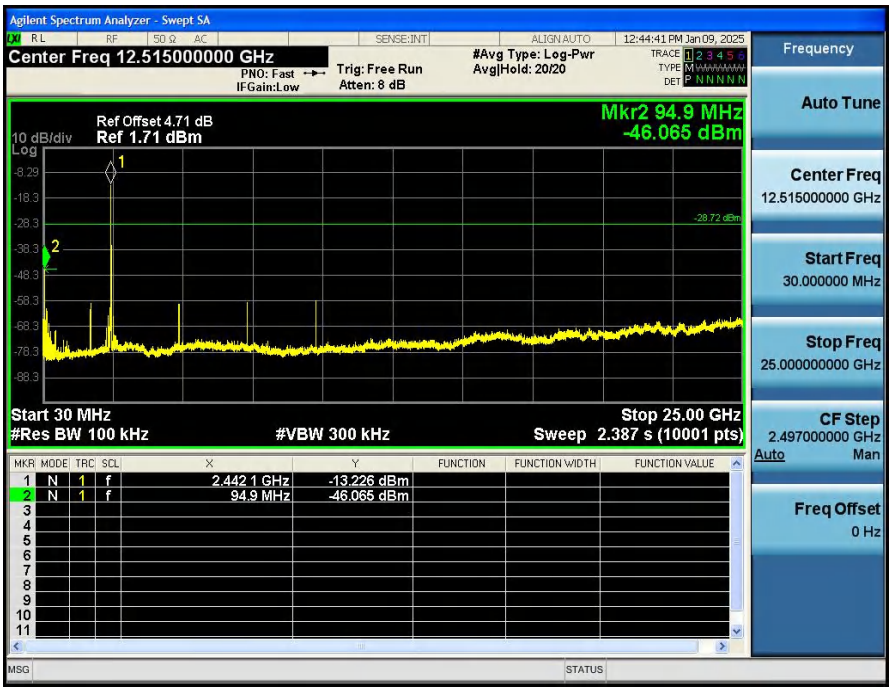

**1_Reference_Level_NVNT_ANT1_2-DH5_2402_00**

**2_Spurious_Emissions_NVNT_ANT1_2-DH5_2402_00**



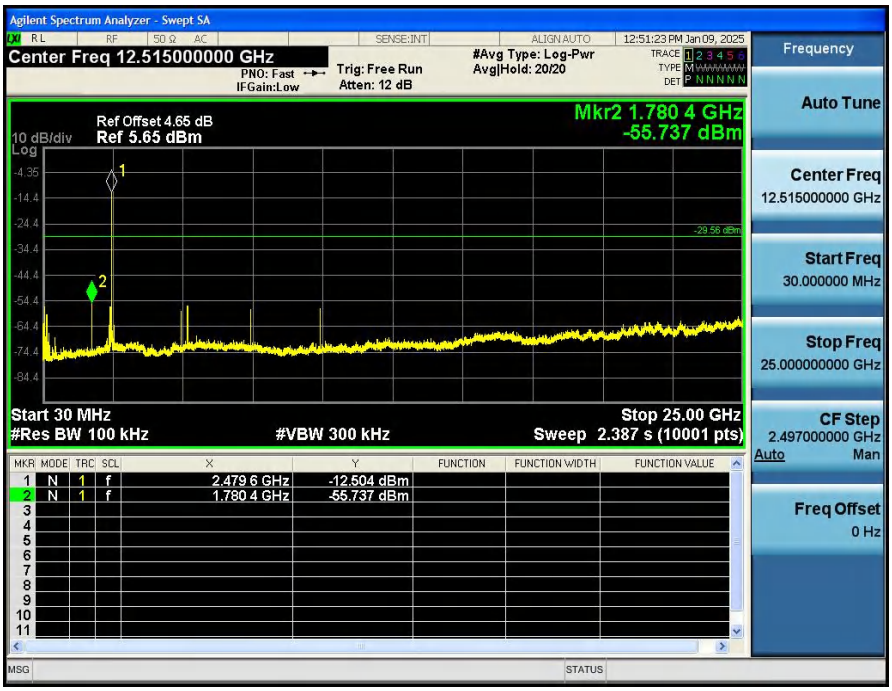

**1_Reference_Level_NVNT_ANT1_2-DH5_2441_00**

**2_Spurious_Emissions_NVNT_ANT1_2-DH5_2441_00**



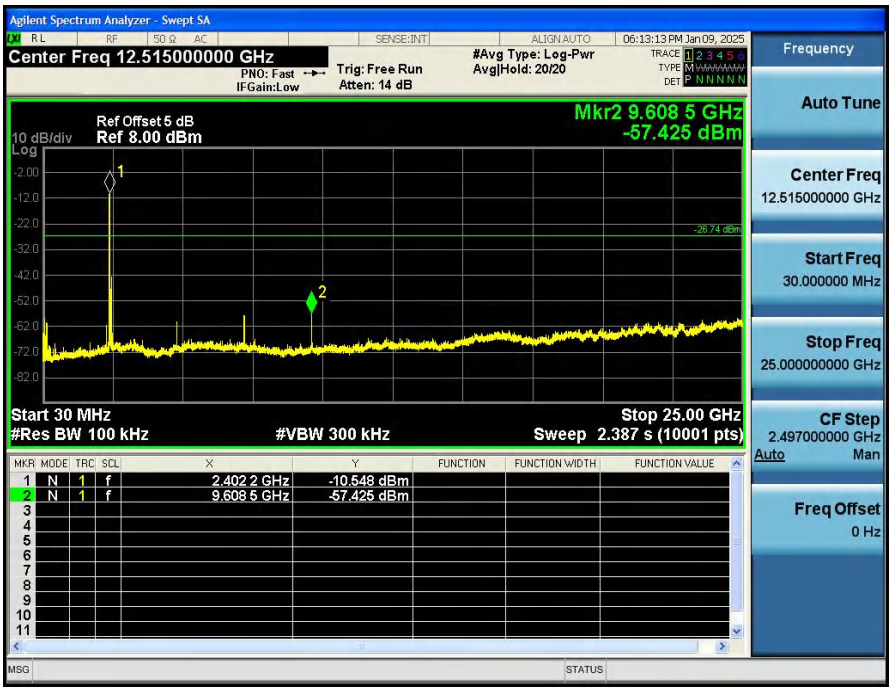

**1_Reference_Level_NVNT_ANT1_2-DH5_2480_00**

**2_Spurious_Emissions_NVNT_ANT1_2-DH5_2480_00**



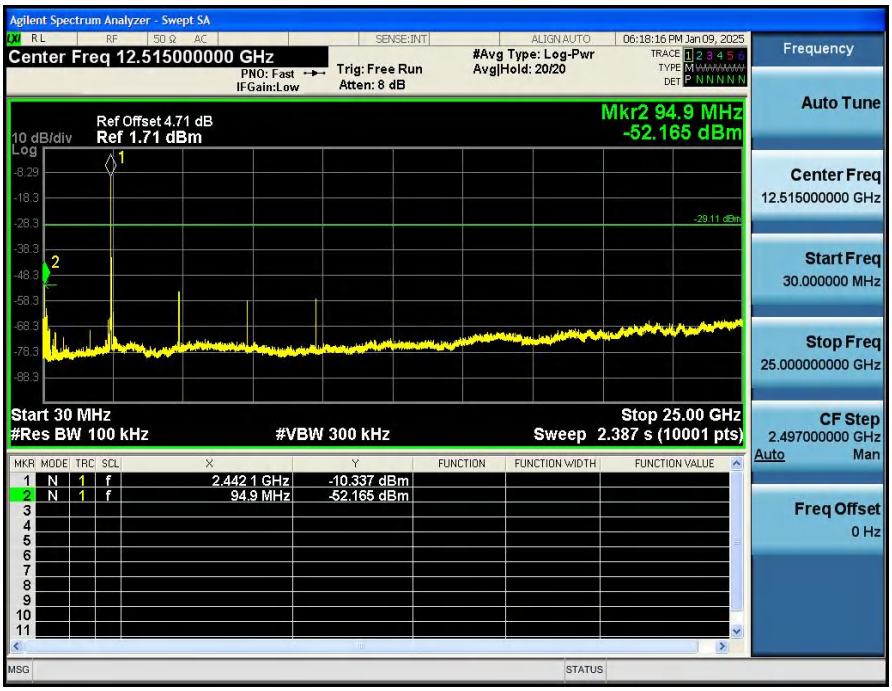

**1_Reference_Level_NVNT_ANT1_3-DH5_2402_00**

**2_Spurious_Emissions_NVNT_ANT1_3-DH5_2402_00**




**1_Reference_Level_NVNT_ANT1_3-DH5_2441_00**

**2_Spurious_Emissions_NVNT_ANT1_3-DH5_2441_00**




**1_Reference_Level_NVNT_ANT1_3-DH5_2480_00**

**2_Spurious_Emissions_NVNT_ANT1_3-DH5_2480_00**