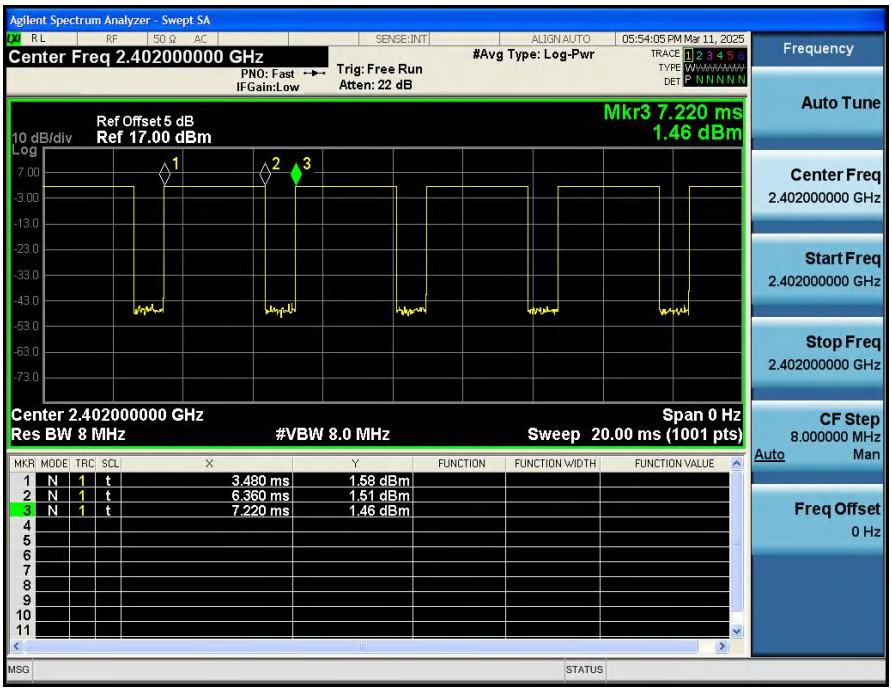
Appendix Test Data

Report No.:	1812C50083612501	Test Sample No.:	1-2-2
Start Test Date:	2025.3.11	Finish Test Date:	2025.3.11
Test Engineer:	Xiang-fei Yang	Auditor:	Justin Feng
Temperature:	21.2℃	Relative Humidity:	52%
Pressure:	101kPa		

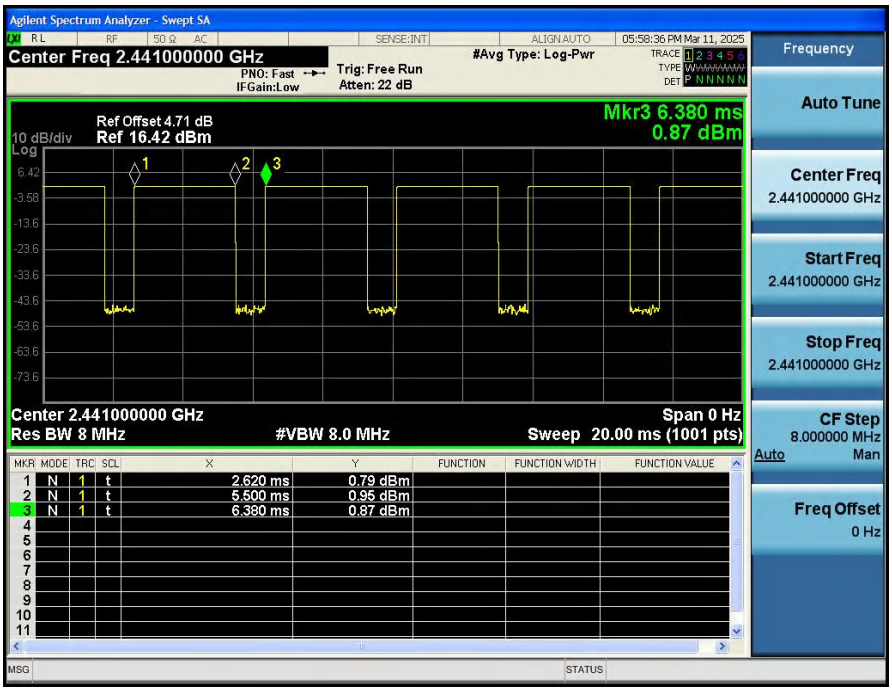
Appendix A: Duty Cycle

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	77.13	1.13
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	77.13	1.13

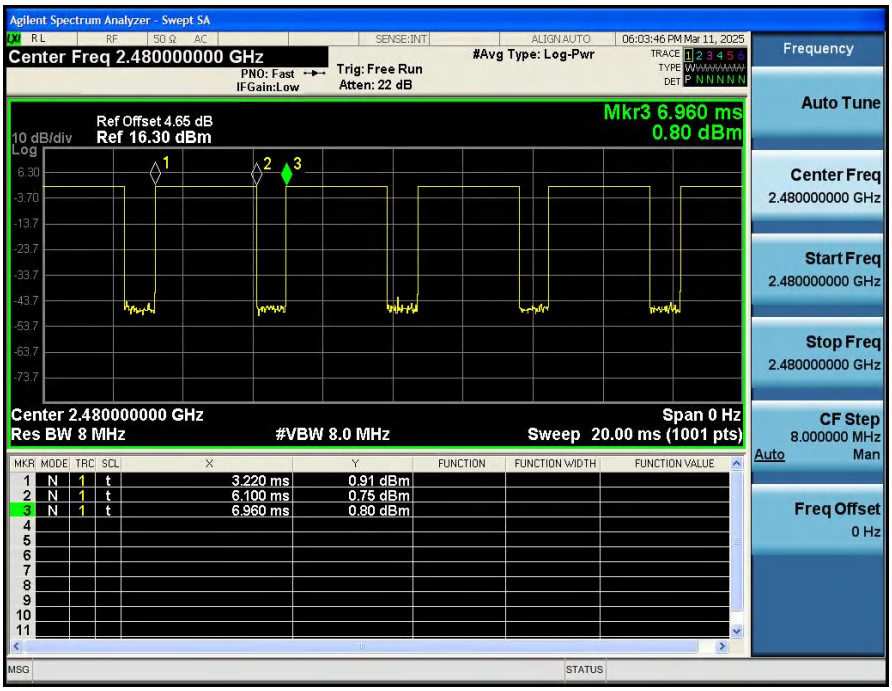
Duty_Cycle_NVNT_ANT1_1-DH5_2402



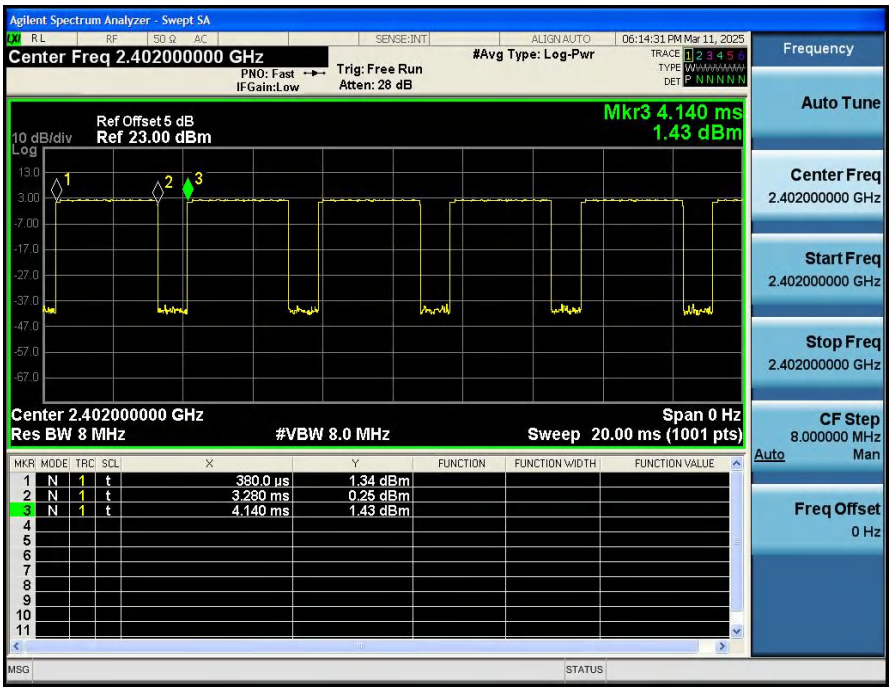
Duty_Cycle_NVNT_ANT1_1-DH5_2441



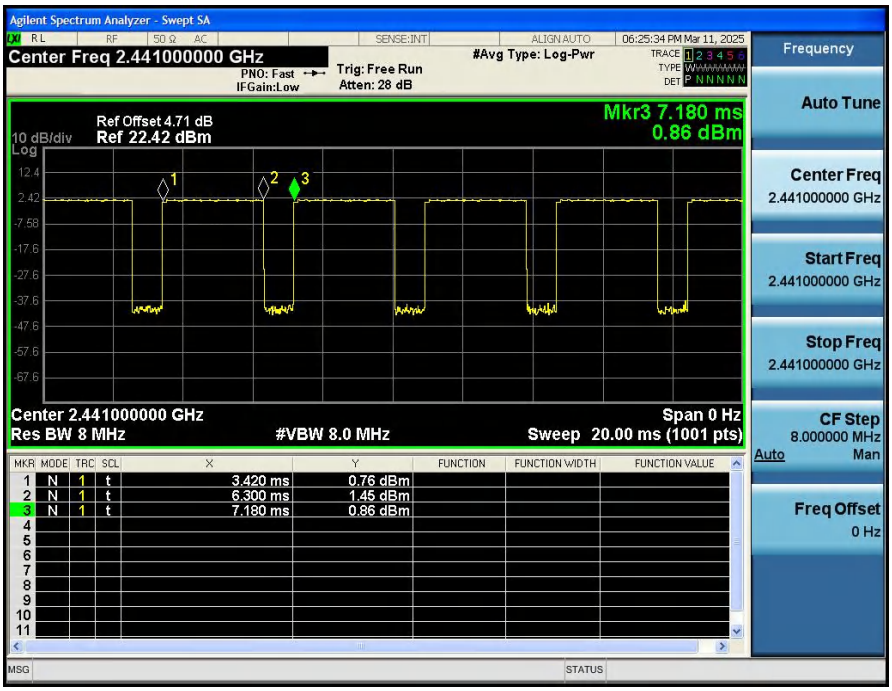
Duty_Cycle_NVNT_ANT1_1-DH5_2480



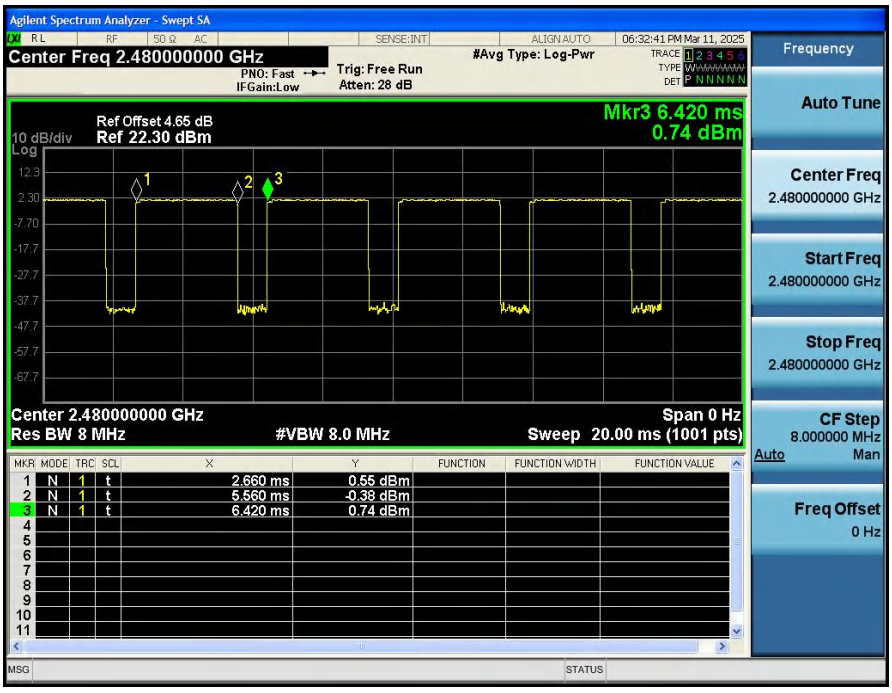
Duty_Cycle_NVNT_ANT1_2-DH5_2402



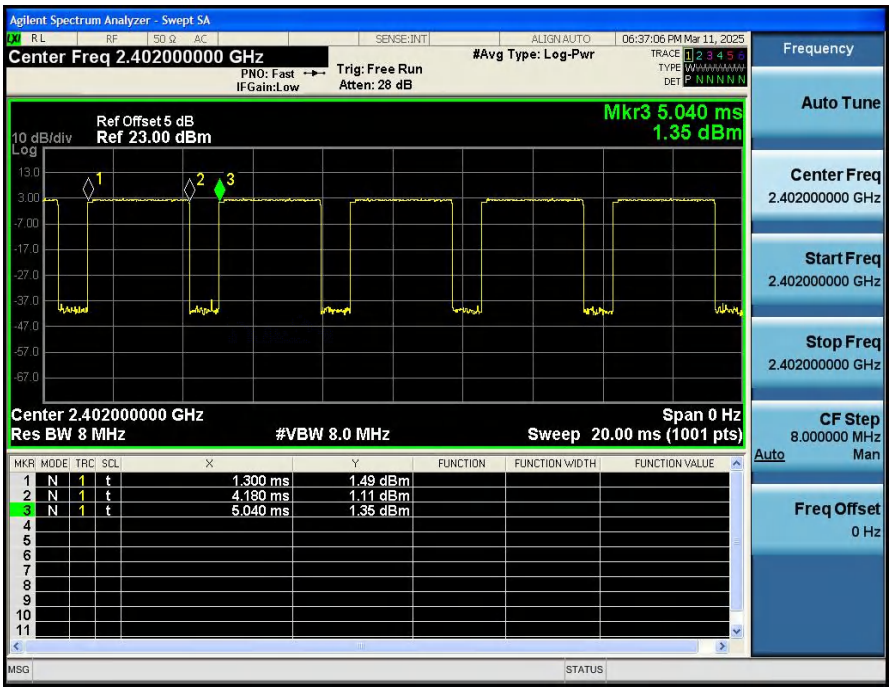
Duty_Cycle_NVNT_ANT1_2-DH5_2441



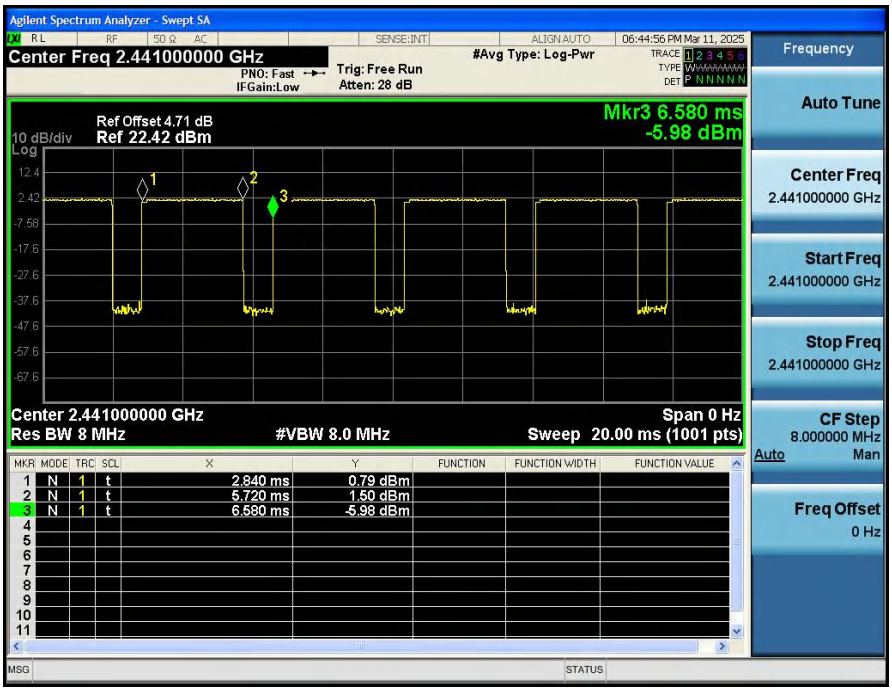
Duty_Cycle_NVNT_ANT1_2-DH5_2480



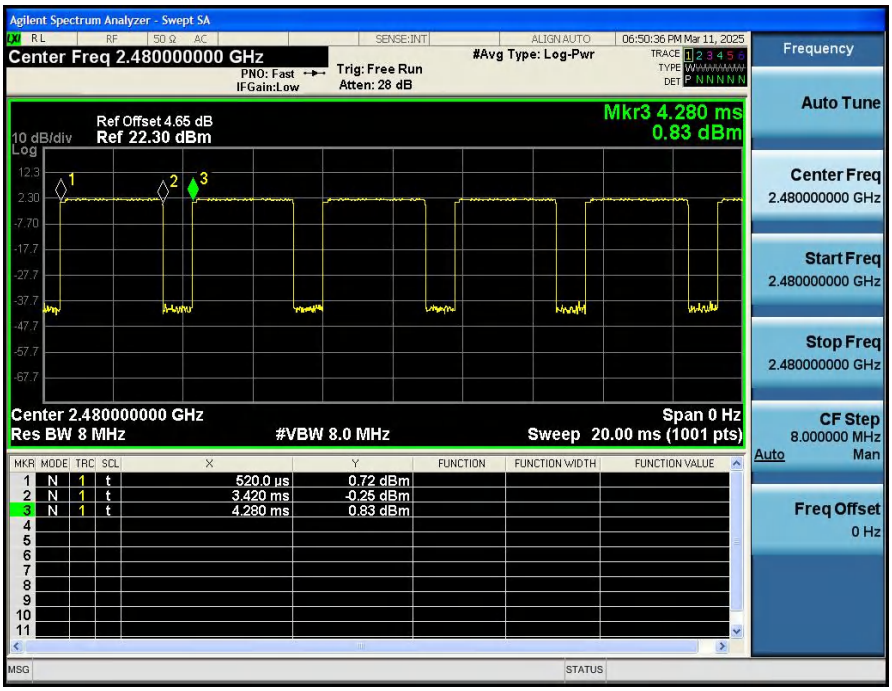
Duty_Cycle_NVNT_ANT1_3-DH5_2402



Duty_Cycle_NVNT_ANT1_3-DH5_2441



Duty_Cycle_NVNT_ANT1_3-DH5_2480

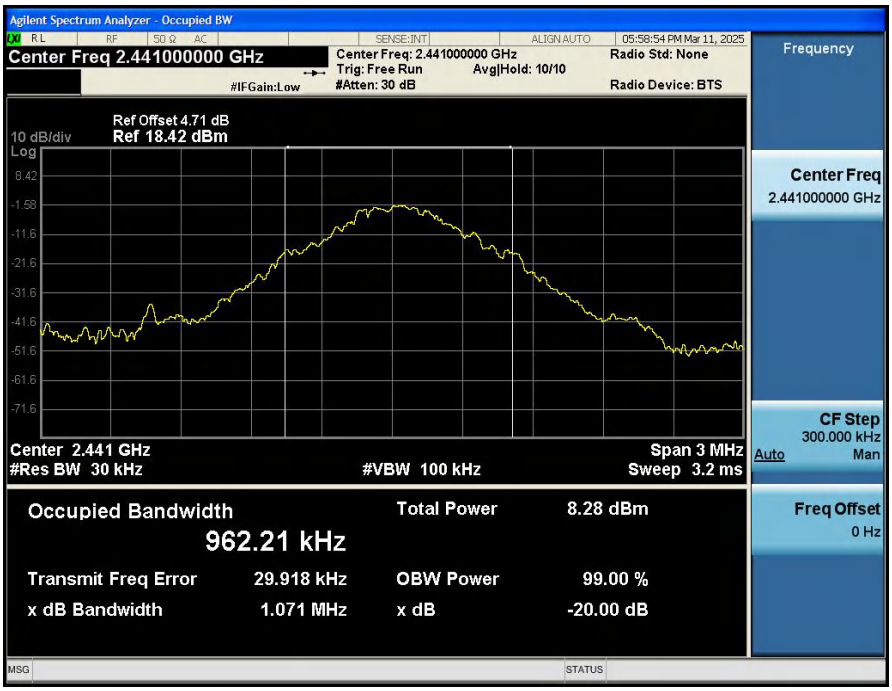

Agilent Spectrum Analyzer - Swept SA
Center Freq 2.480000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 28 dB
#Avg Type: Log-Pwr
06:50:36 PM Mar 11, 2025
Ref Offset 4.65 dB
10 dB/div
Log
Ref 22.30 dBm
Mkr3 4.280 ms
0.83 dBm
12.3
2.30
-7.70
-17.7
-27.7
-37.7
-47.7
-57.7
-67.7
Center 2.480000000 GHz
Res BW 8 MHz
#VBW 8.0 MHz
Span 0 Hz
Sweep 20.00 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 t 520.0 µs 0.72 dBm
2 N 1 t 3.420 ms -0.25 dBm
3 N 1 t 4.280 ms 0.83 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
MSG
STATUS

Appendix B: -20dB Bandwidth

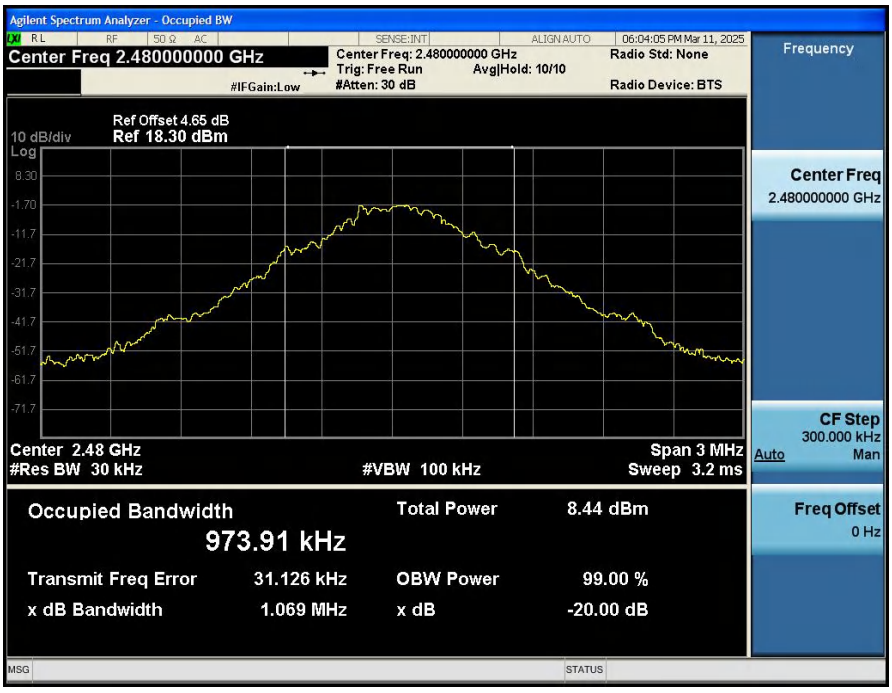
Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS
NVNT	ANT1	1-DH5	2402.00	1.043	Yes
NVNT	ANT1	1-DH5	2441.00	1.071	Yes
NVNT	ANT1	1-DH5	2480.00	1.069	Yes
NVNT	ANT1	2-DH5	2402.00	1.331	Yes
NVNT	ANT1	2-DH5	2441.00	1.340	Yes
NVNT	ANT1	2-DH5	2480.00	1.343	Yes
NVNT	ANT1	3-DH5	2402.00	1.303	Yes
NVNT	ANT1	3-DH5	2441.00	1.297	Yes
NVNT	ANT1	3-DH5	2480.00	1.294	Yes

-20dB_Bandwidth_NVNT_ANT1_1-DH5_2402_00

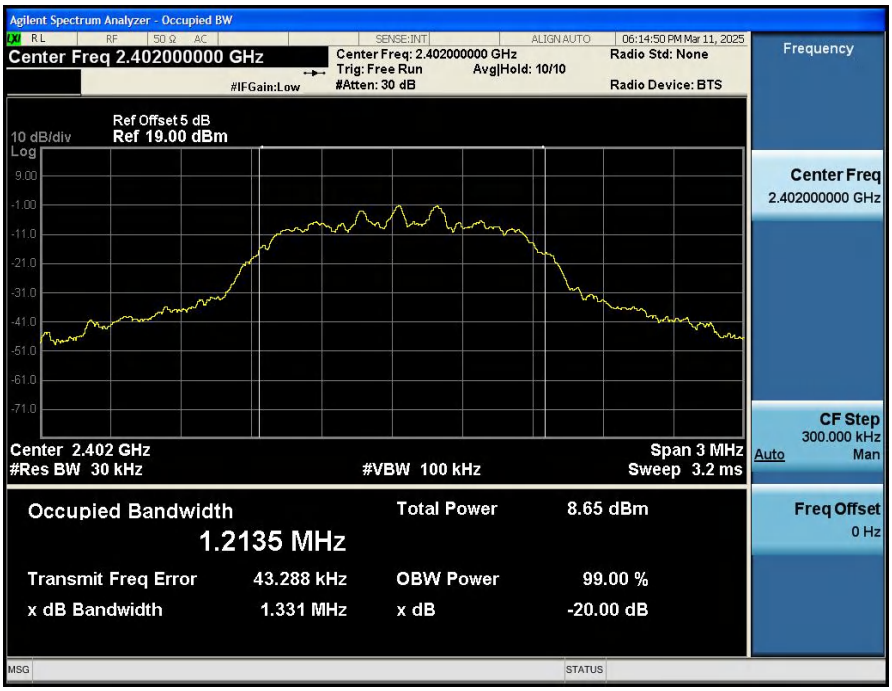
-20dB_Bandwidth_NVNT_ANT1_1-DH5_2441_00



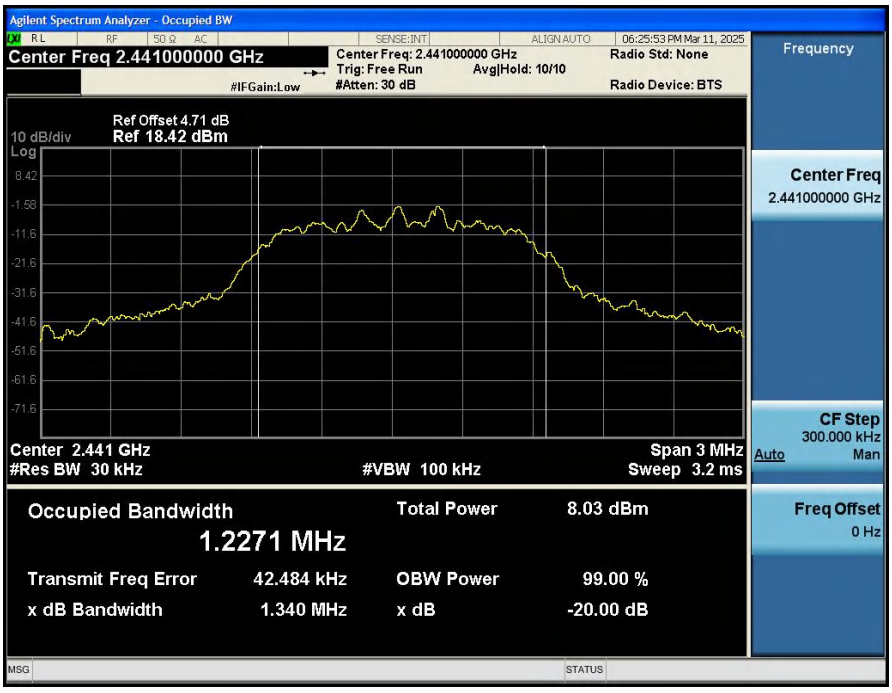
-20dB_Bandwidth_NVNT_ANT1_1-DH5_2480_00



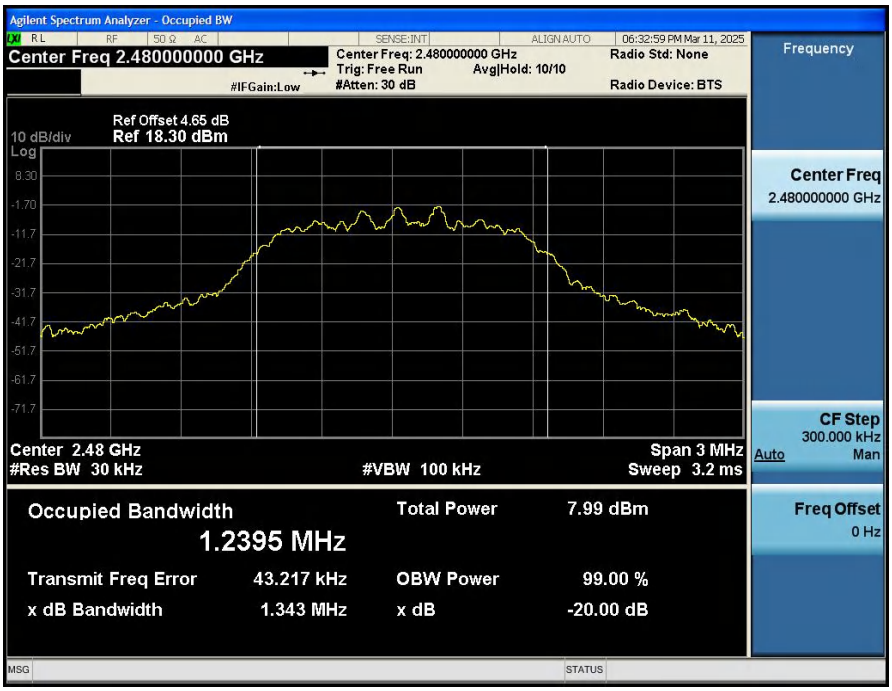
-20dB_Bandwidth_NVNT_ANT1_2-DH5_2402_00



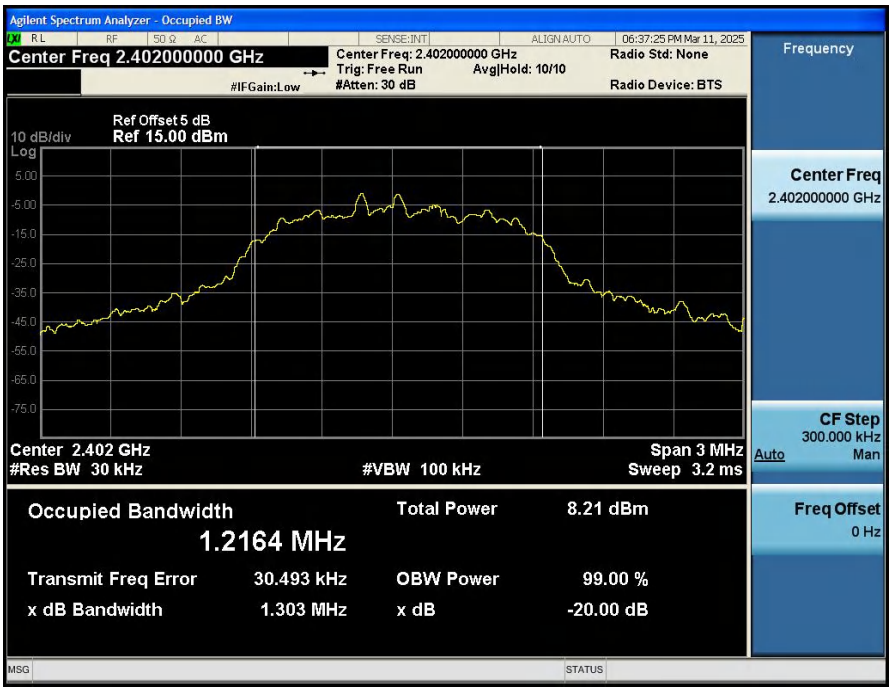
-20dB_Bandwidth_NVNT_ANT1_2-DH5_2441_00



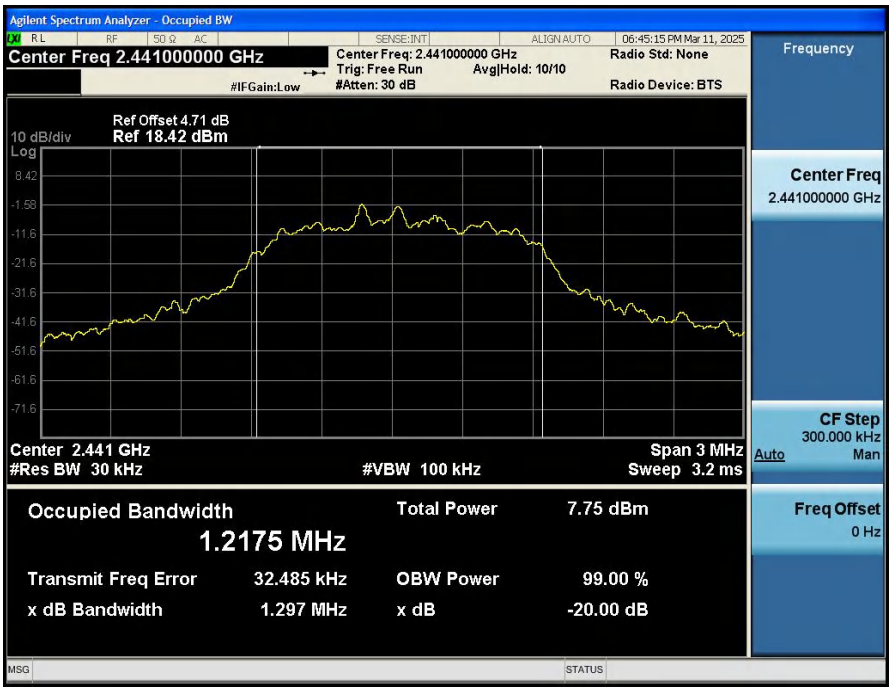
-20dB_Bandwidth_NVNT_ANT1_2-DH5_2480_00



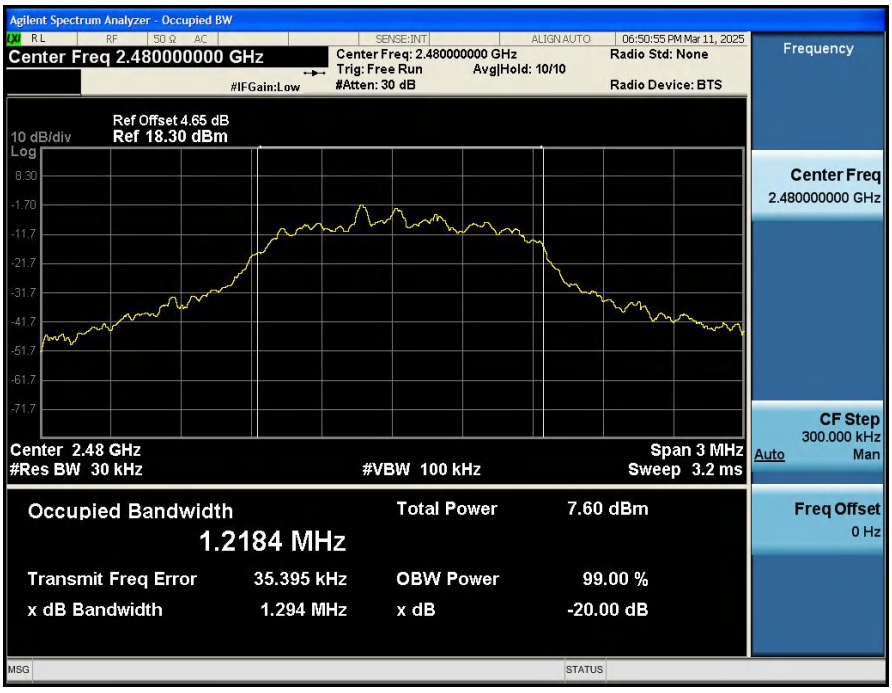
-20dB_Bandwidth_NVNT_ANT1_3-DH5_2402_00



-20dB_Bandwidth_NVNT_ANT1_3-DH5_2441_00



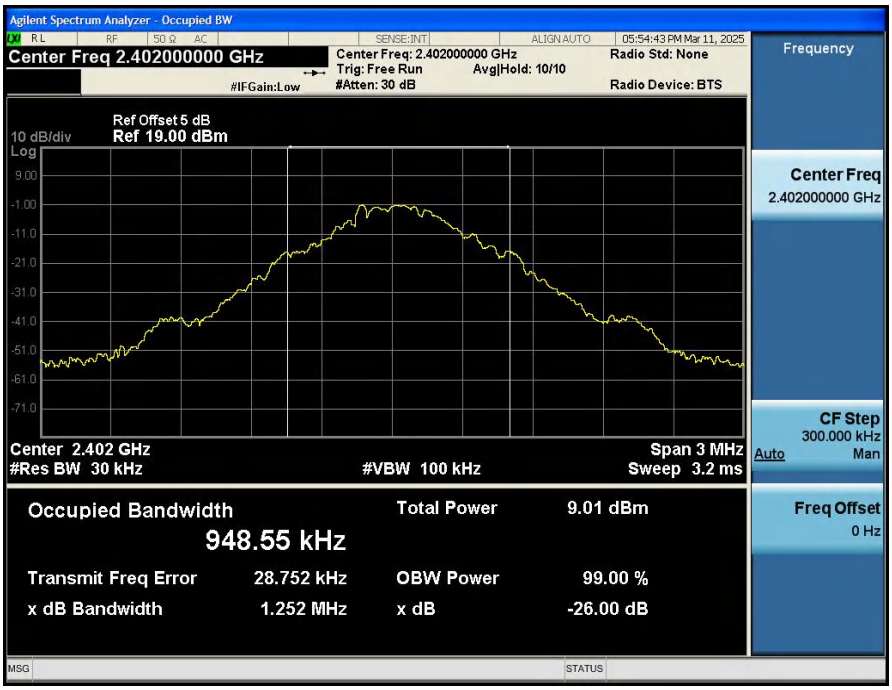
-20dB_Bandwidth_NVNT_ANT1_3-DH5_2480_00



Appendix C: 99% Occupied Bandwidth

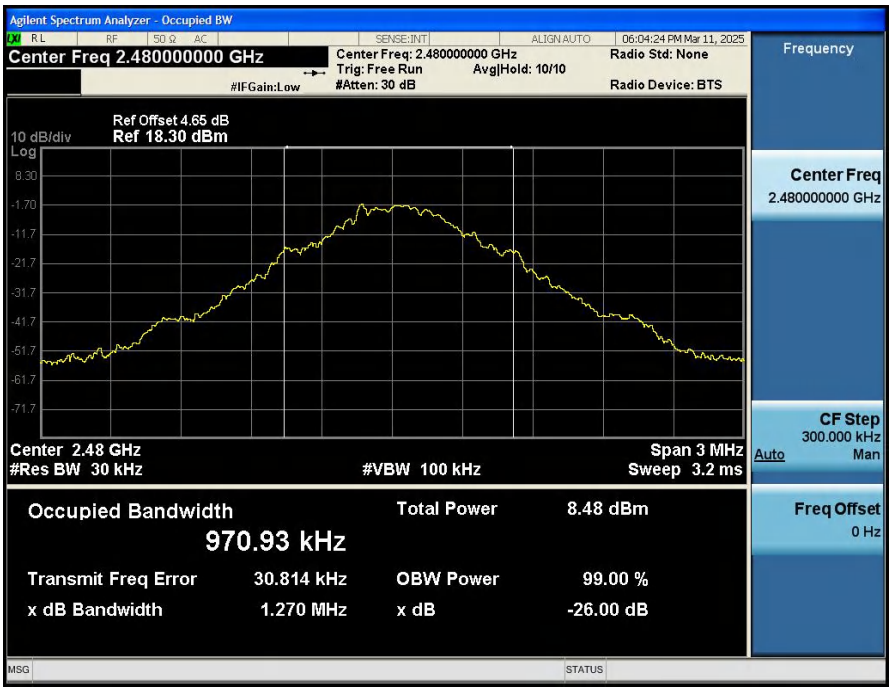
Condition	Antenna	Modulation	Frequency (MHz)	99%BW(MHz)
NVNT	ANT1	1-DH5	2402.00	0.949
NVNT	ANT1	1-DH5	2441.00	0.956
NVNT	ANT1	1-DH5	2480.00	0.971
NVNT	ANT1	2-DH5	2402.00	1.217
NVNT	ANT1	2-DH5	2441.00	1.230
NVNT	ANT1	2-DH5	2480.00	1.239
NVNT	ANT1	3-DH5	2402.00	1.215
NVNT	ANT1	3-DH5	2441.00	1.218
NVNT	ANT1	3-DH5	2480.00	1.218

99%_Occupied_Bandwidth_NVNT_ANT1_1-DH5_2402_00

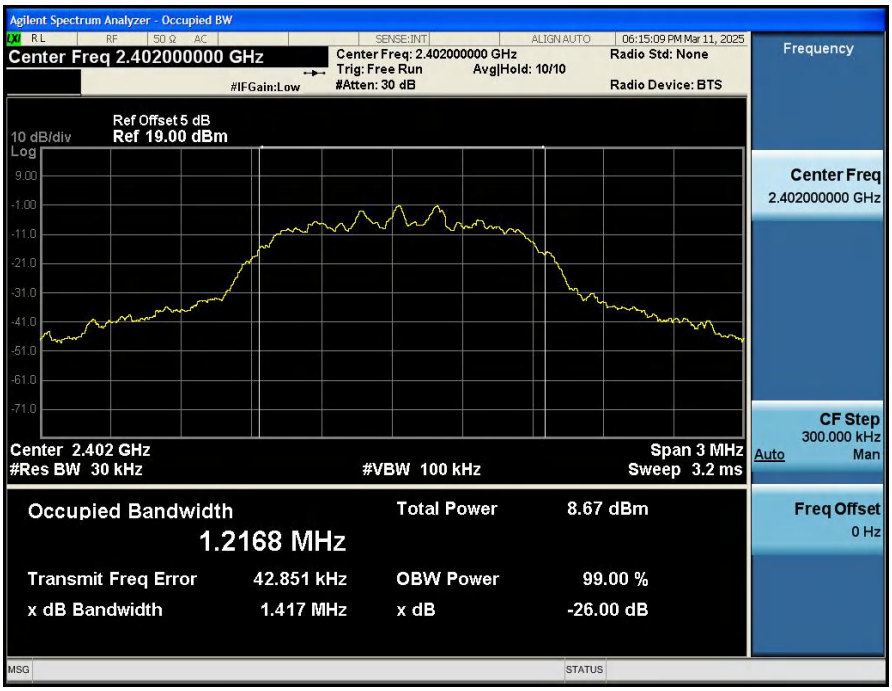


99%_Occupied_Bandwidth_NVNT_ANT1_1-DH5_2441_00

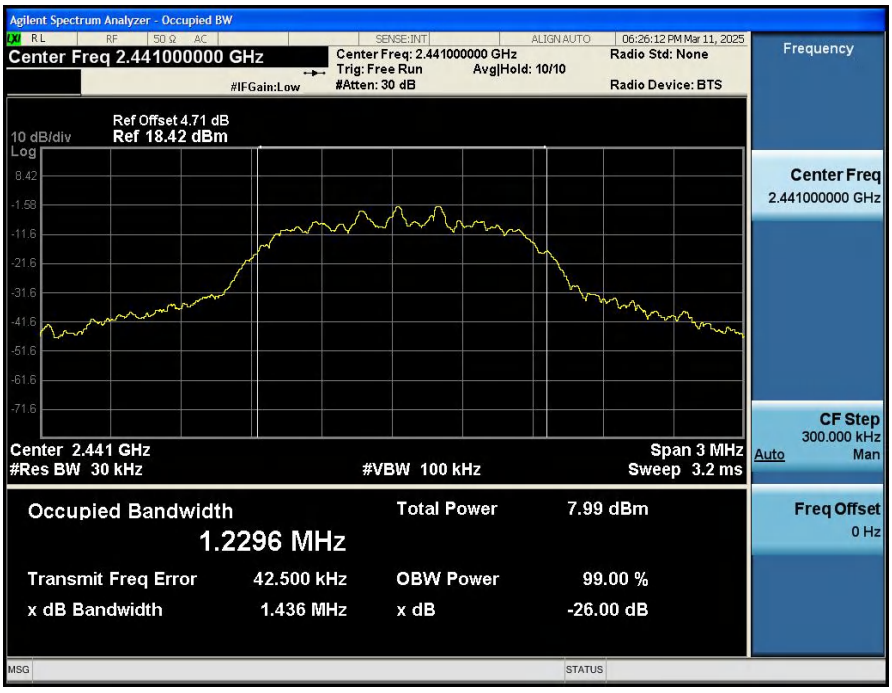
99%_Occupied_Bandwidth_NVNT_ANT1_1-DH5_2480_00



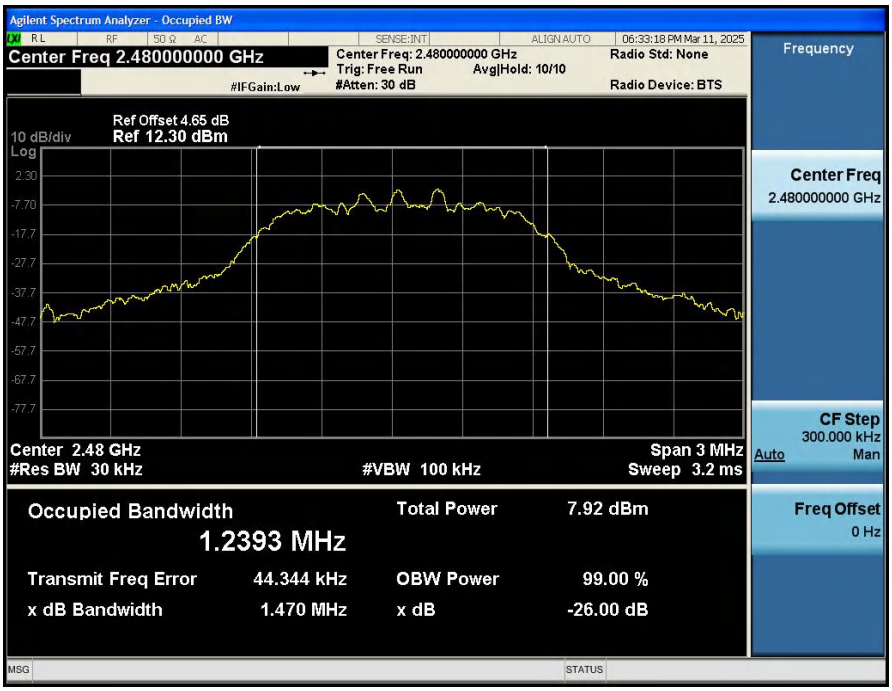
99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2402_00



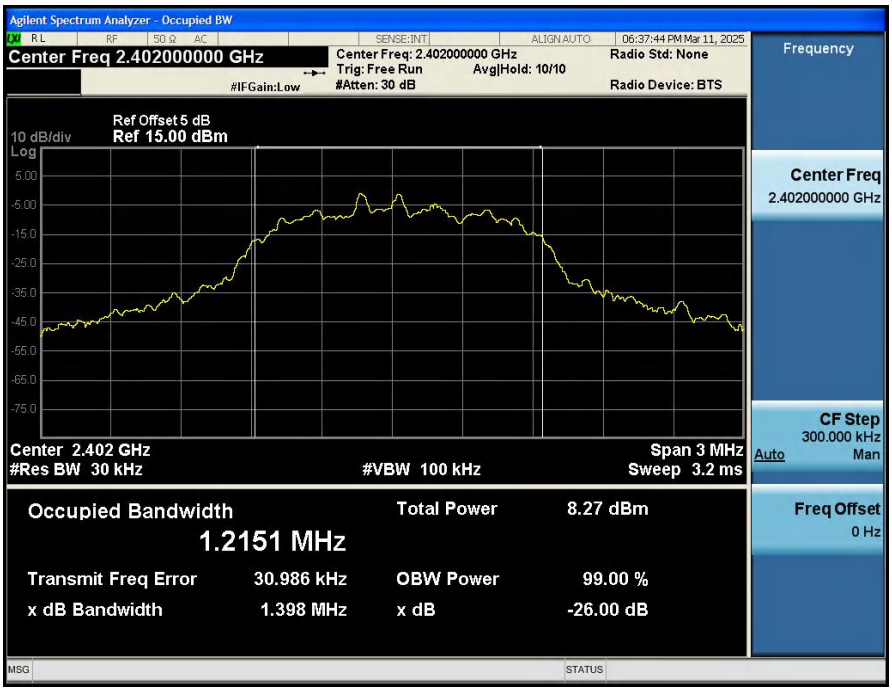
99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2441_00



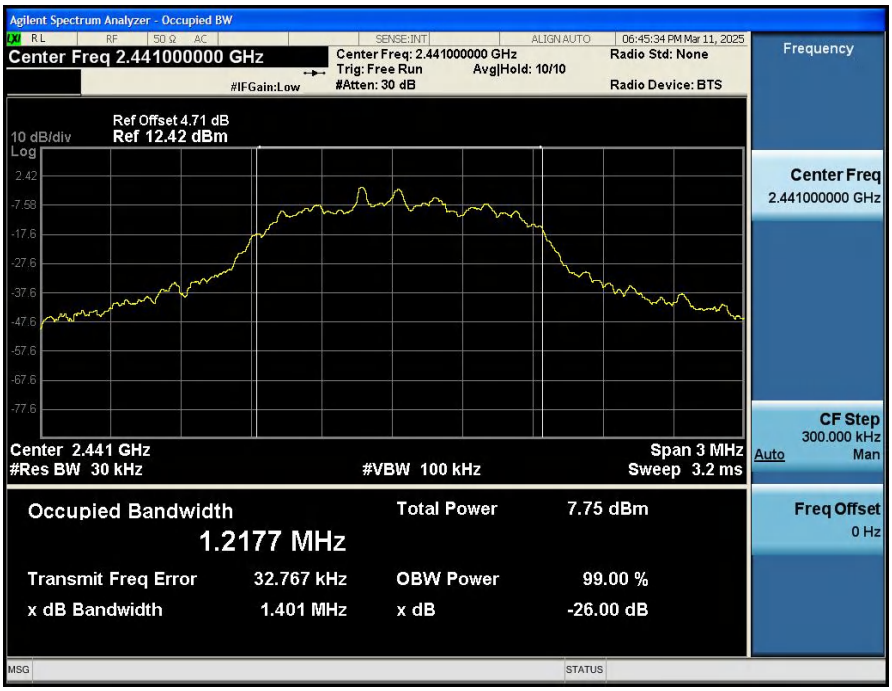
99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2480_00



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	1.57	1.43	125	Pass
NVNT	ANT1	1-DH5	2441.00	1.06	1.28	125	Pass
NVNT	ANT1	1-DH5	2480.00	0.93	1.24	125	Pass
NVNT	ANT1	2-DH5	2402.00	2.35	1.72	125	Pass
NVNT	ANT1	2-DH5	2441.00	1.82	1.52	125	Pass
NVNT	ANT1	2-DH5	2480.00	1.75	1.50	125	Pass
NVNT	ANT1	3-DH5	2402.00	**2.61**	1.82	125	Pass
NVNT	ANT1	3-DH5	2441.00	2.06	1.61	125	Pass
NVNT	ANT1	3-DH5	2480.00	2.07	1.61	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

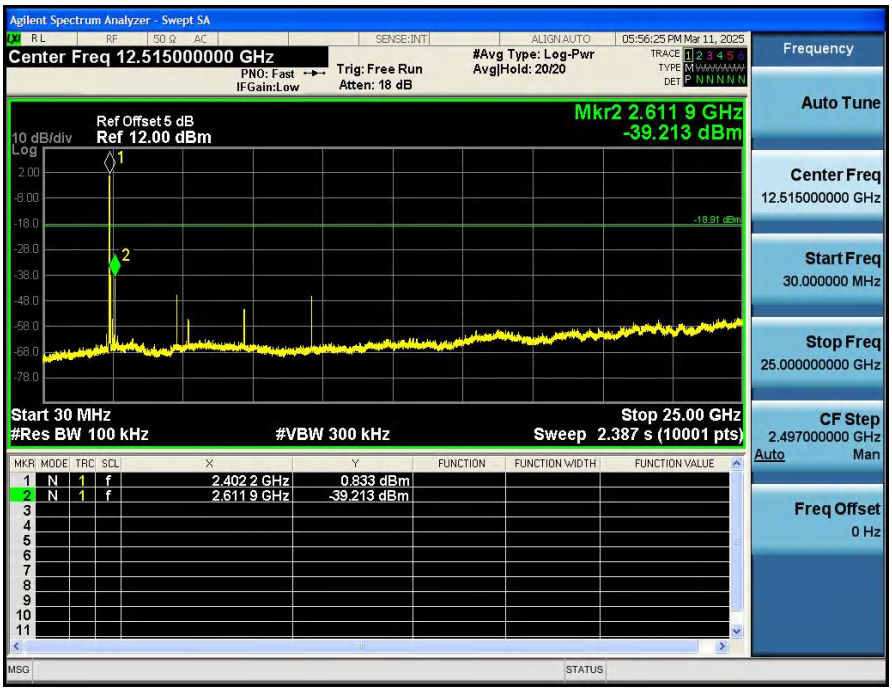
Peak_Output_Power_NVNT_ANT1_3-DH5_2480_00

Appendix E: Spurious Emissions

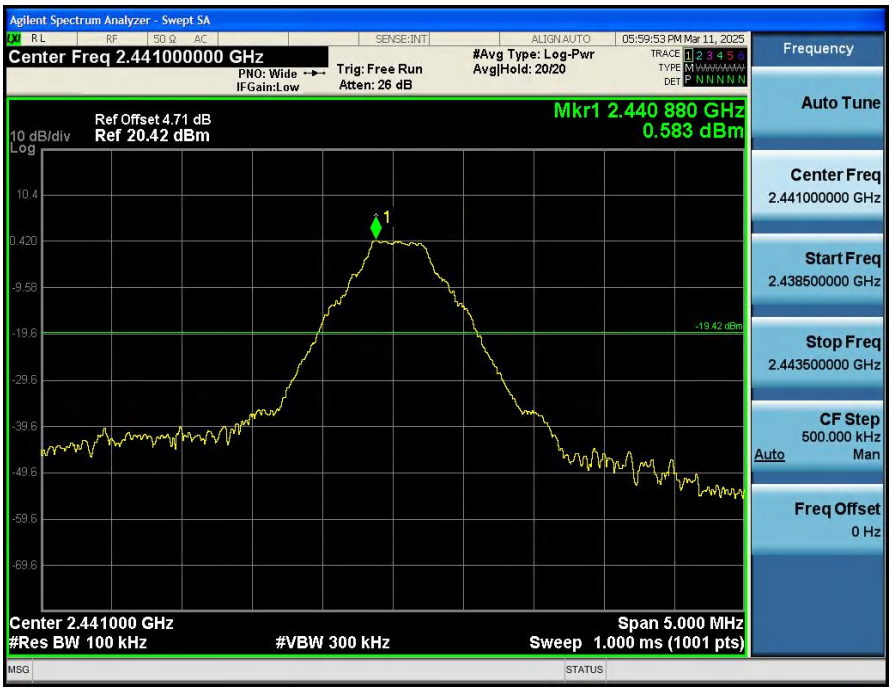
Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1-DH5	2402.00	1.089	-39.213	-18.911	Pass
NVNT	ANT1	1-DH5	2441.00	0.583	-45.084	-19.417	Pass
NVNT	ANT1	1-DH5	2480.00	0.532	-46.578	-19.468	Pass
NVNT	ANT1	2-DH5	2402.00	1.186	-45.644	-18.814	Pass
NVNT	ANT1	2-DH5	2441.00	0.508	-45.764	-19.492	Pass
NVNT	ANT1	2-DH5	2480.00	0.476	-46.091	-19.524	Pass
NVNT	ANT1	3-DH5	2402.00	0.855	-46.615	-19.145	Pass
NVNT	ANT1	3-DH5	2441.00	0.541	-45.502	-19.459	Pass
NVNT	ANT1	3-DH5	2480.00	0.239	-44.948	-19.761	Pass

1_Reference_Level_NVNT_ANT1_1-DH5_2402_00

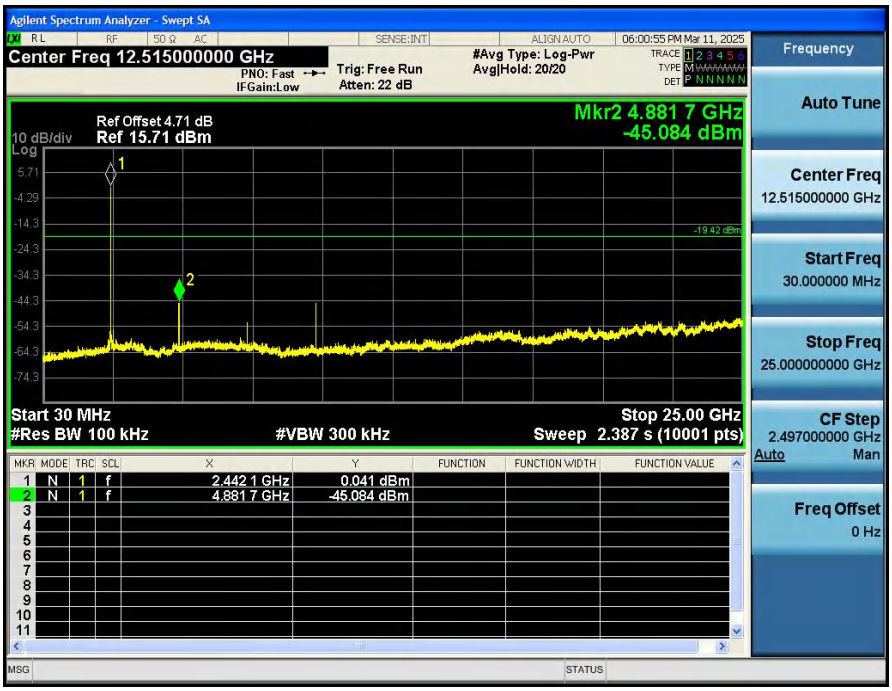
2_Spurious_Emissions_NVNT_ANT1_1-DH5_2402_00



1_Reference_Level_NVNT_ANT1_1-DH5_2441_00

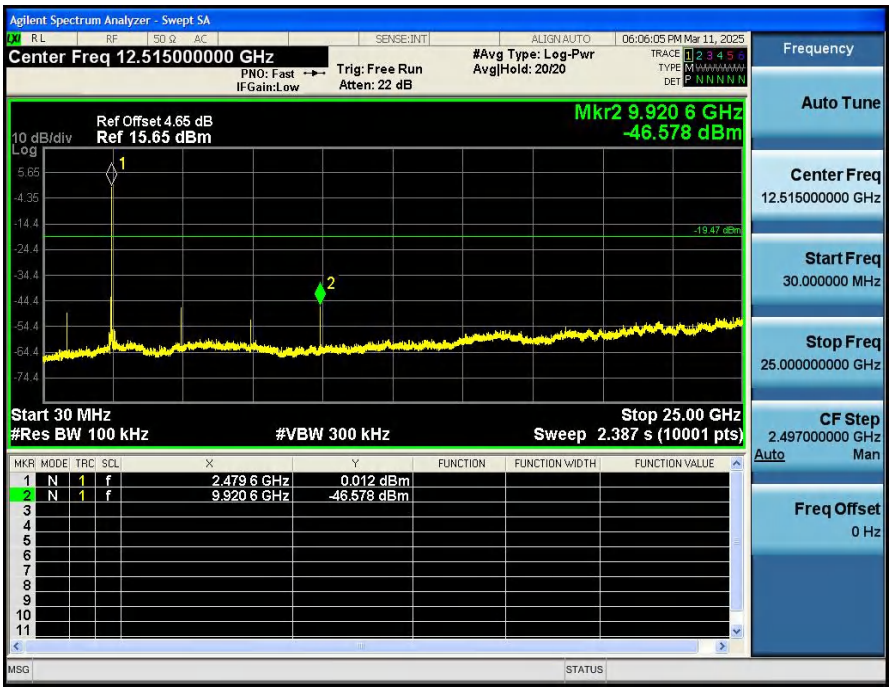


2_Spurious_Emissions_NVNT_ANT1_1-DH5_2441_00



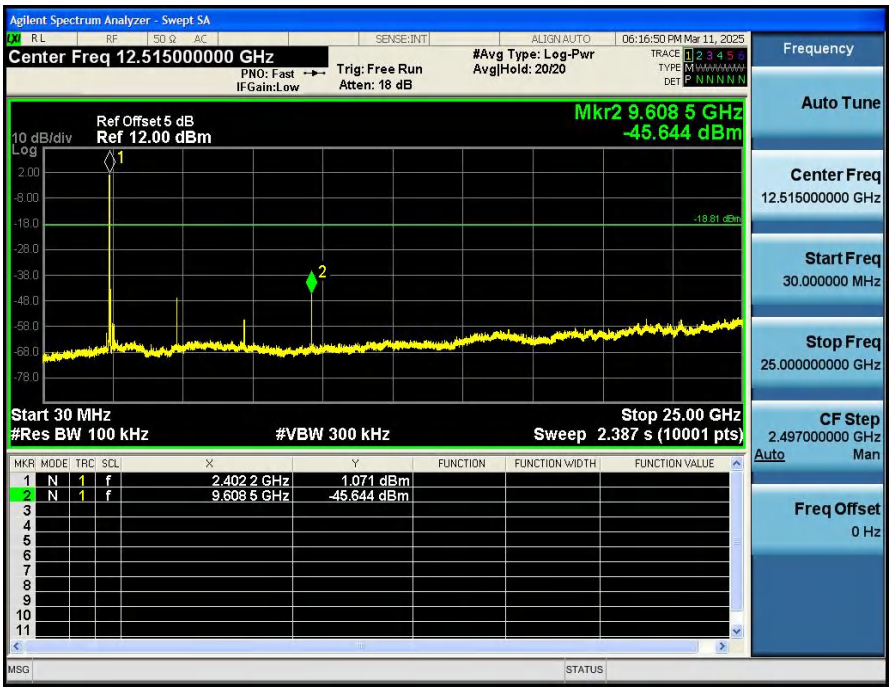
1_Reference_Level_NVNT_ANT1_1-DH5_2480_00

2_Spurious_Emissions_NVNT_ANT1_1-DH5_2480_00



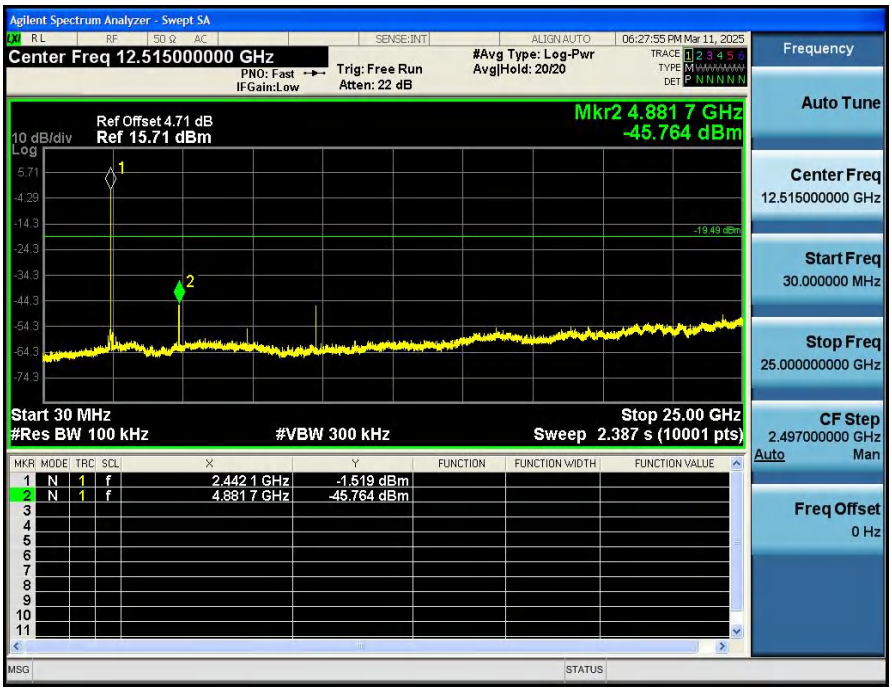
1_Reference_Level_NVNT_ANT1_2-DH5_2402_00

2_Spurious_Emissions_NVNT_ANT1_2-DH5_2402_00



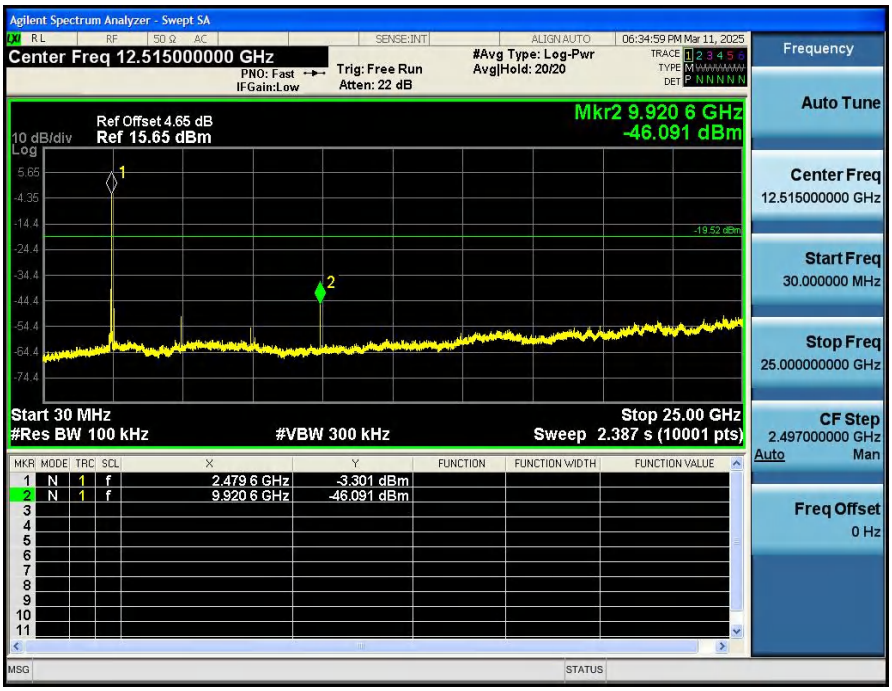
1_Reference_Level_NVNT_ANT1_2-DH5_2441_00

2_Spurious_Emissions_NVNT_ANT1_2-DH5_2441_00



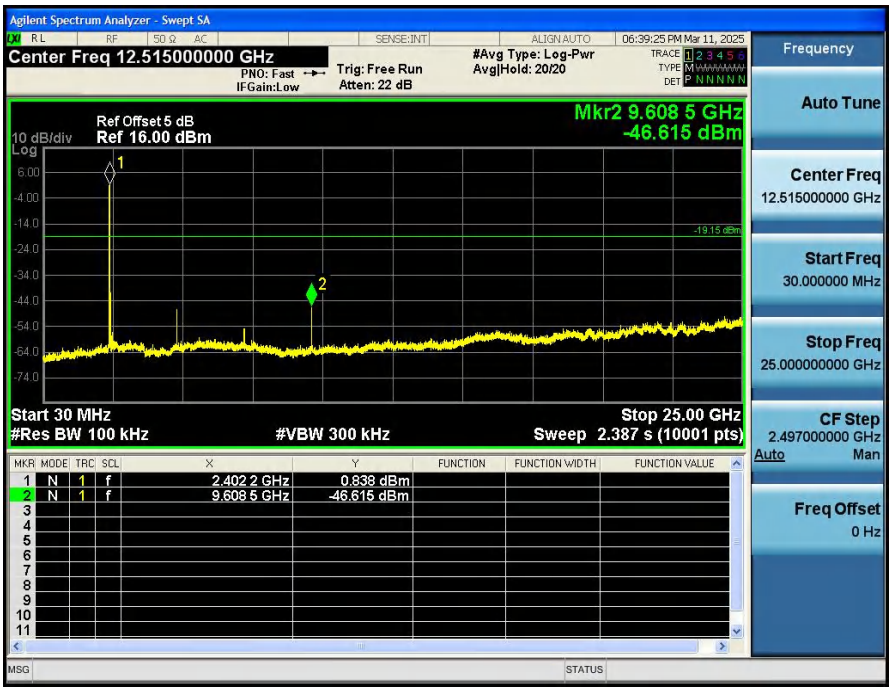
1_Reference_Level_NVNT_ANT1_2-DH5_2480_00

2_Spurious_Emissions_NVNT_ANT1_2-DH5_2480_00



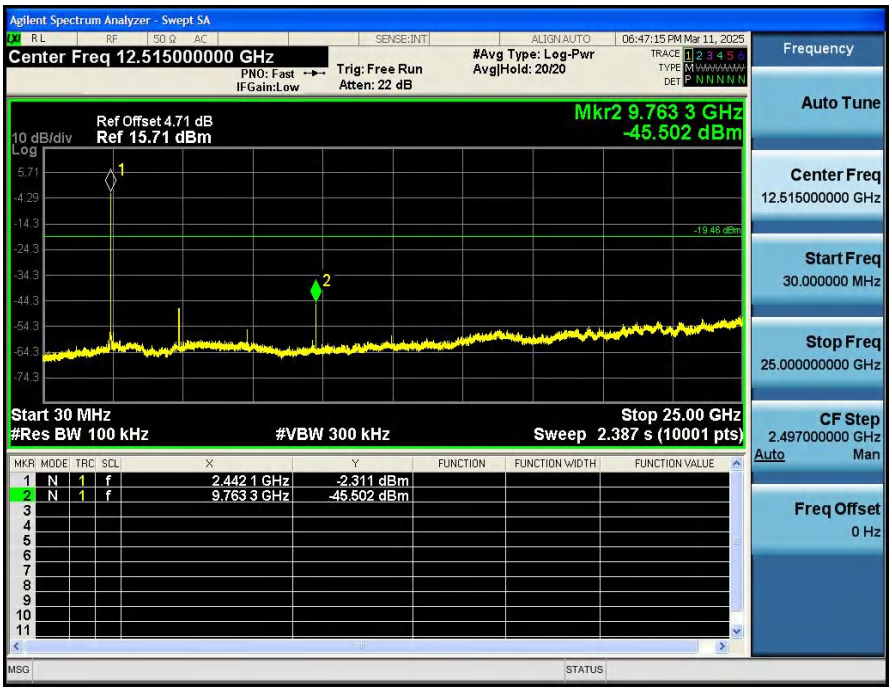
1_Reference_Level_NVNT_ANT1_3-DH5_2402_00

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