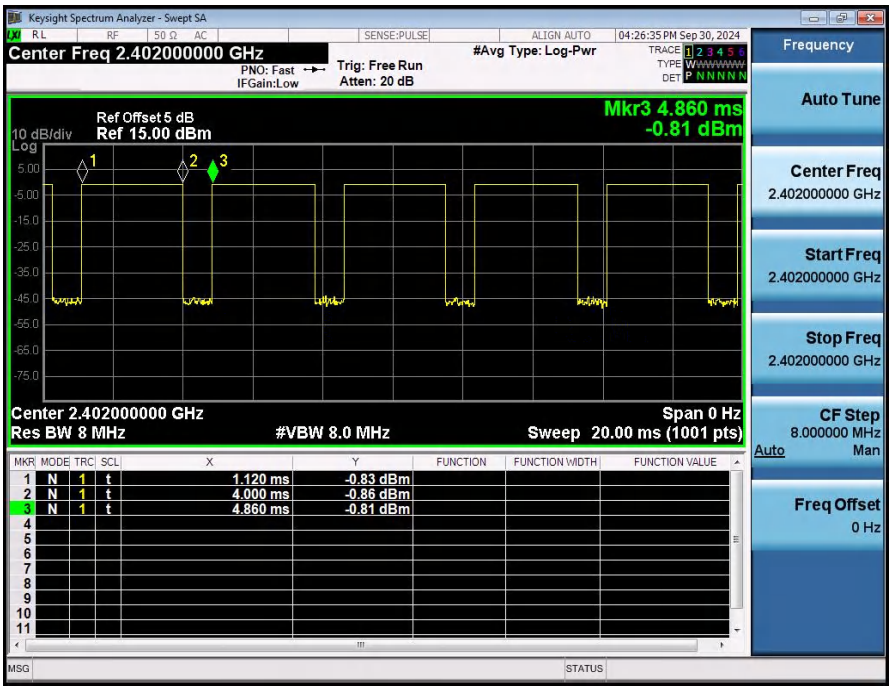
Appendix Test Data

Report No.:	1812C40088412501	Test Sample No.:	1-2-2
Start Test Date:	2024.9.30	Finish Test Date:	2024.9.30
Test Engineer:	Joker Huang	Auditor:	Justin Feng
Temperature:	22℃	Relative Humidity:	48%
Pressure:	101kPa		

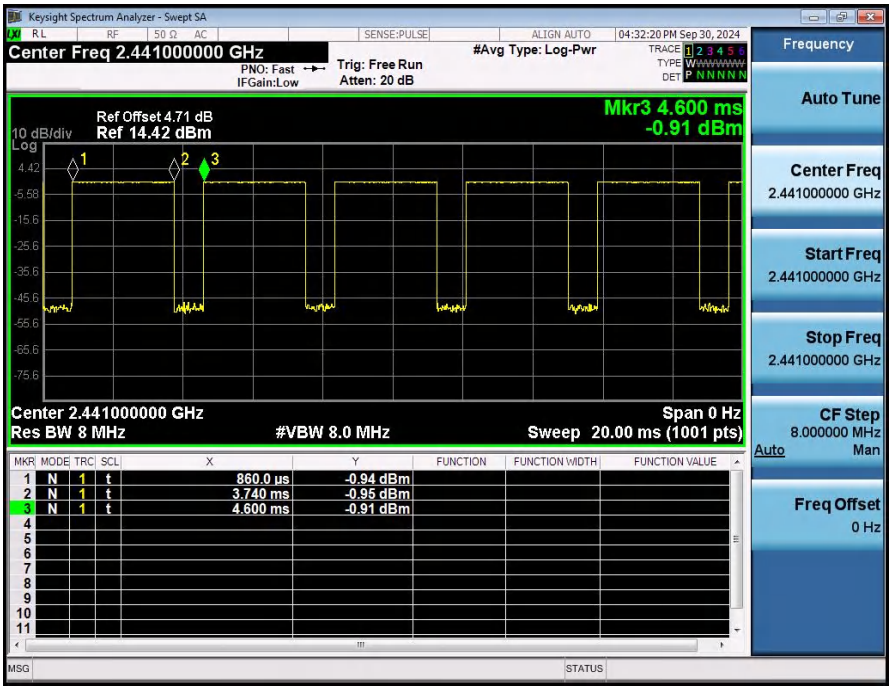
Appendix A: Duty Cycle

Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	1-DH5	2402.00	77.54	1.10
NVNT	ANT1	1-DH5	2441.00	77.54	1.10
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	77.54	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	77.01	1.13
NVNT	ANT1	3-DH5	2480.00	77.54	1.10

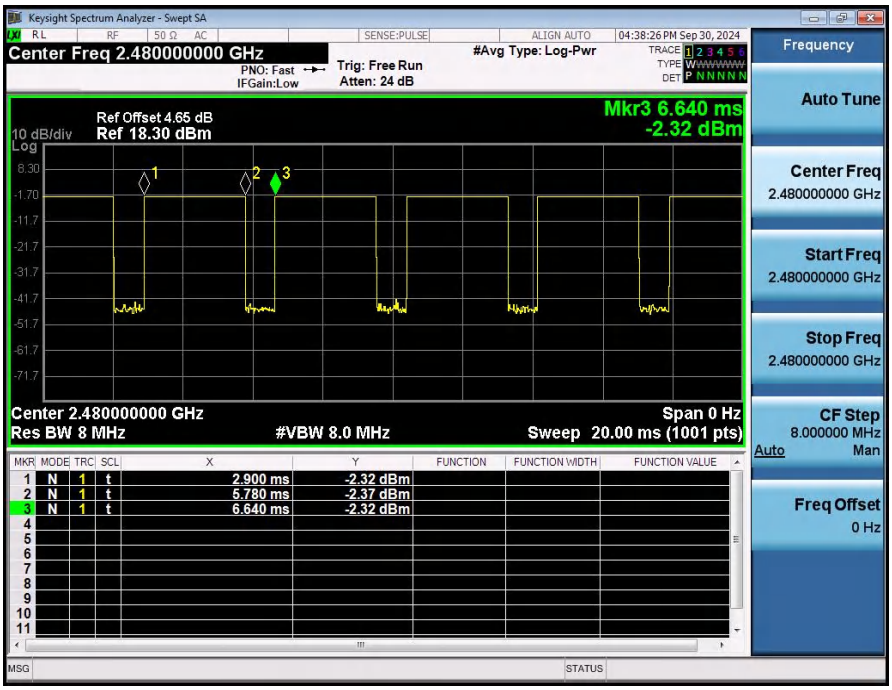
Duty_Cycle_NVNT_ANT1_1-DH5_2402



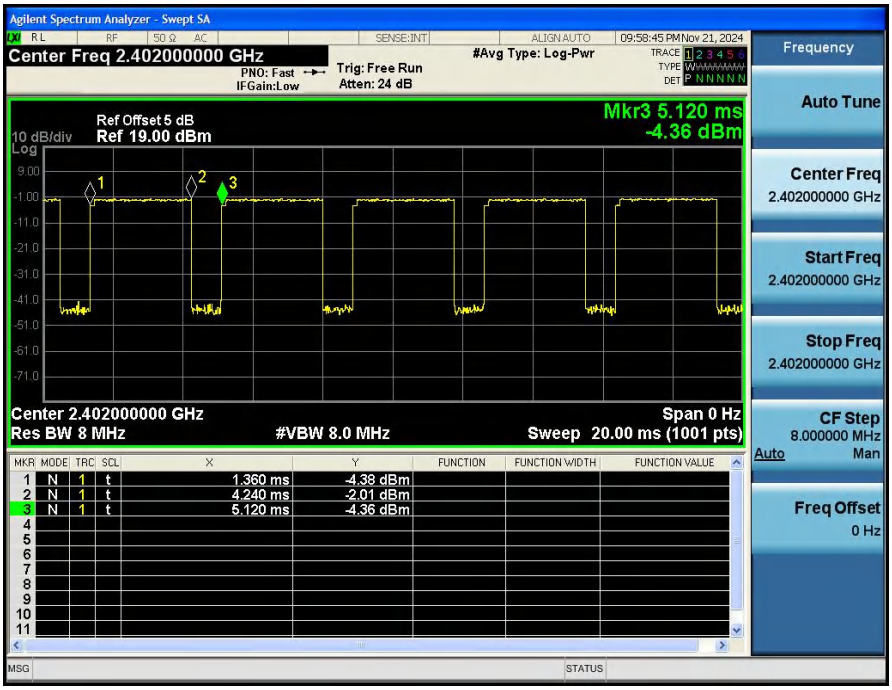
Duty_Cycle_NVNT_ANT1_1-DH5_2441



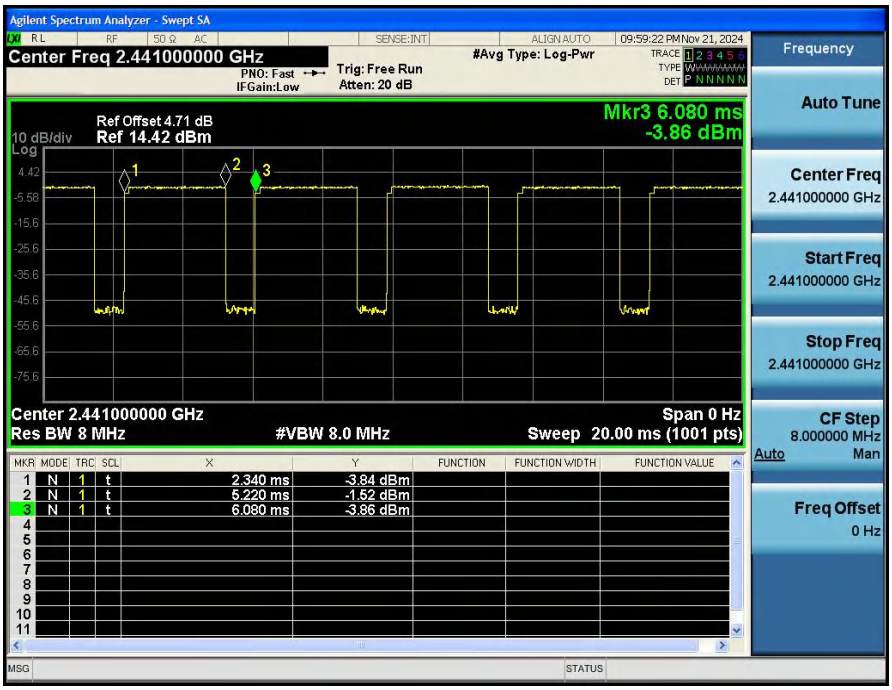
Duty_Cycle_NVNT_ANT1_1-DH5_2480



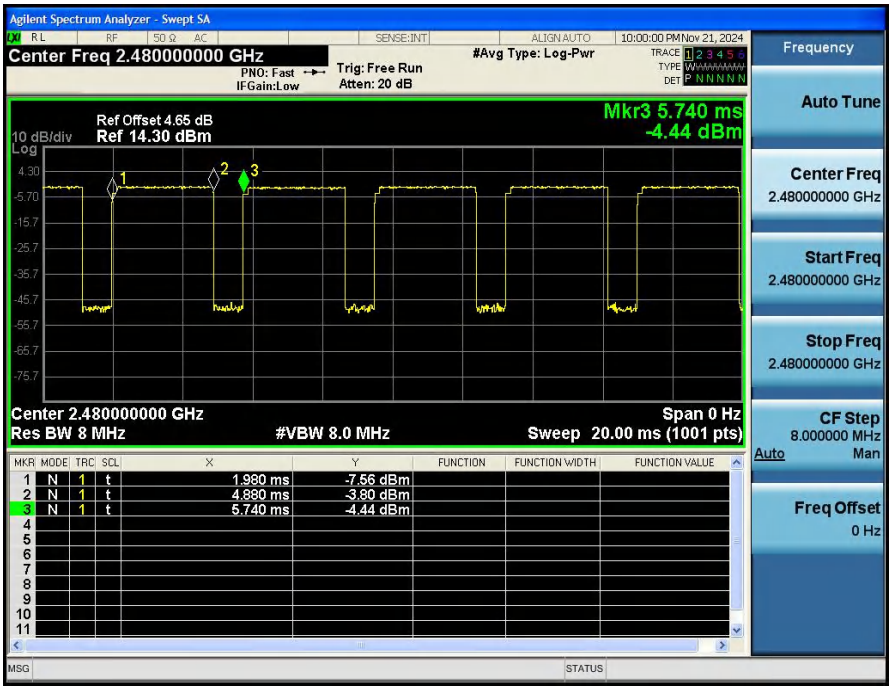
Duty_Cycle_NVNT_ANT1_2-DH5_2402



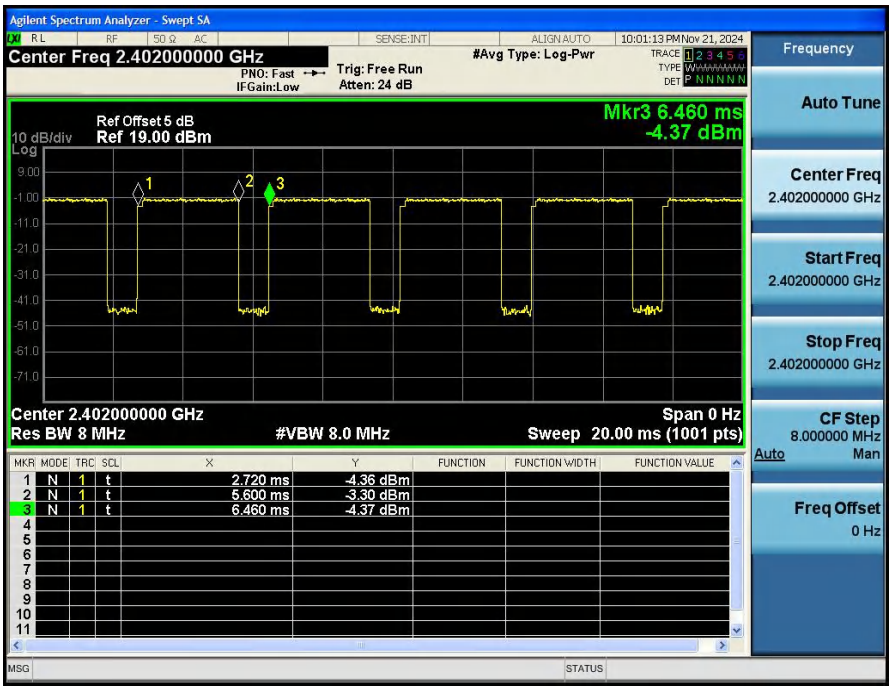
Duty_Cycle_NVNT_ANT1_2-DH5_2441



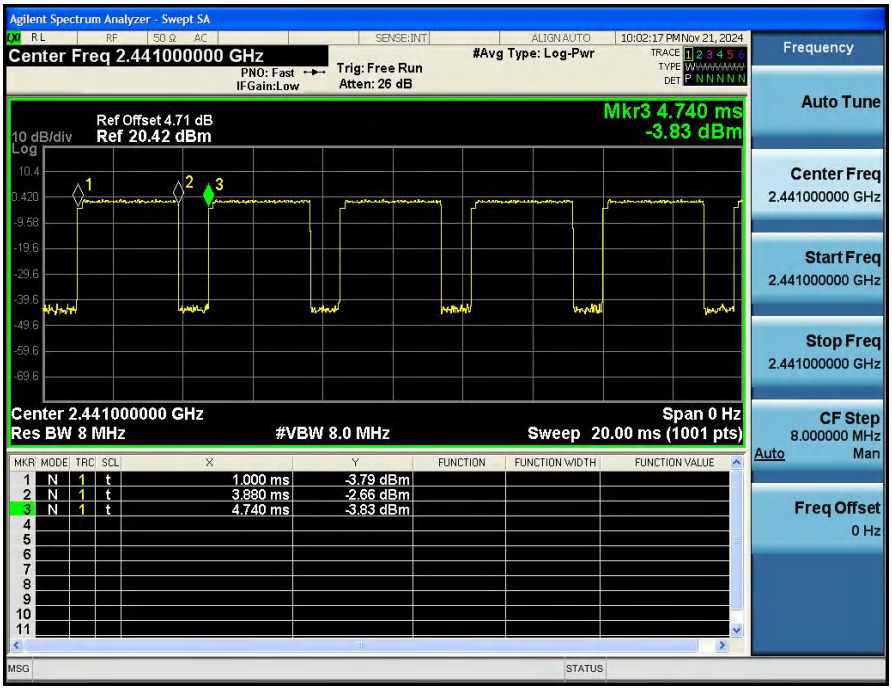
Duty_Cycle_NVNT_ANT1_2-DH5_2480



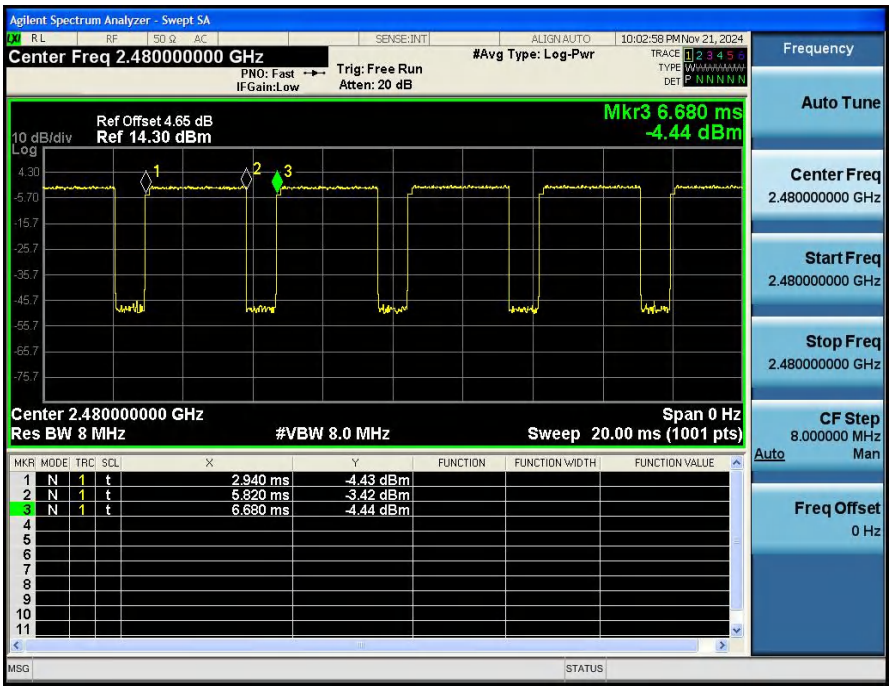
Duty_Cycle_NVNT_ANT1_3-DH5_2402



Duty_Cycle_NVNT_ANT1_3-DH5_2441



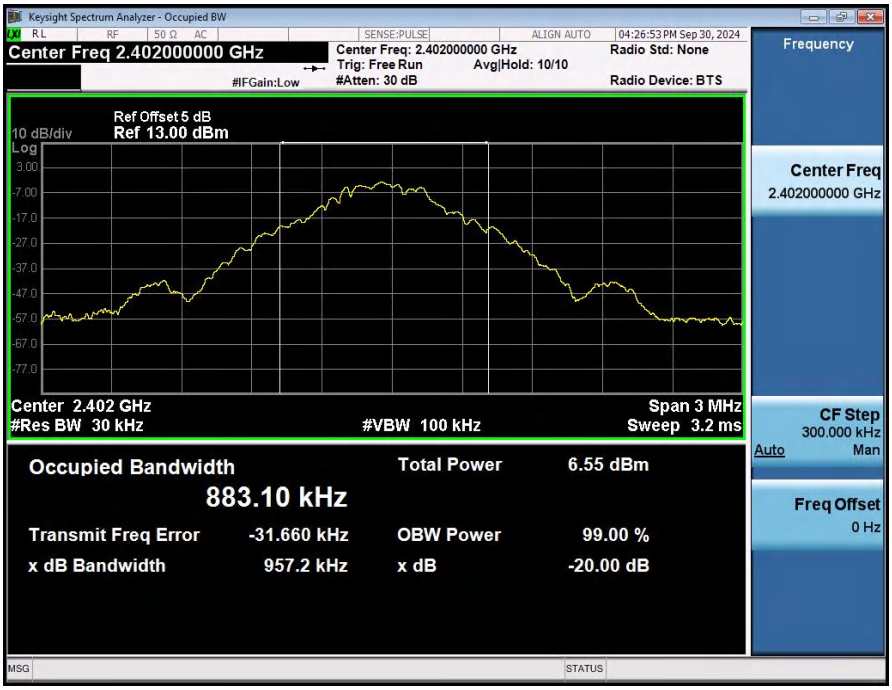
Duty_Cycle_NVNT_ANT1_3-DH5_2480


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.480000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 20 dB
#Avg Type: Log-Pwr
10:02:58 PM Nov 21, 2024
Ref Offset 4.65 dB
10 dB/div
Ref 14.30 dBm
Mkr3 6.680 ms
-4.44 dBm
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 2.940 ms -4.43 dBm
2 N 1 t 5.820 ms -3.42 dBm
3 N 1 t 6.680 ms -4.44 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

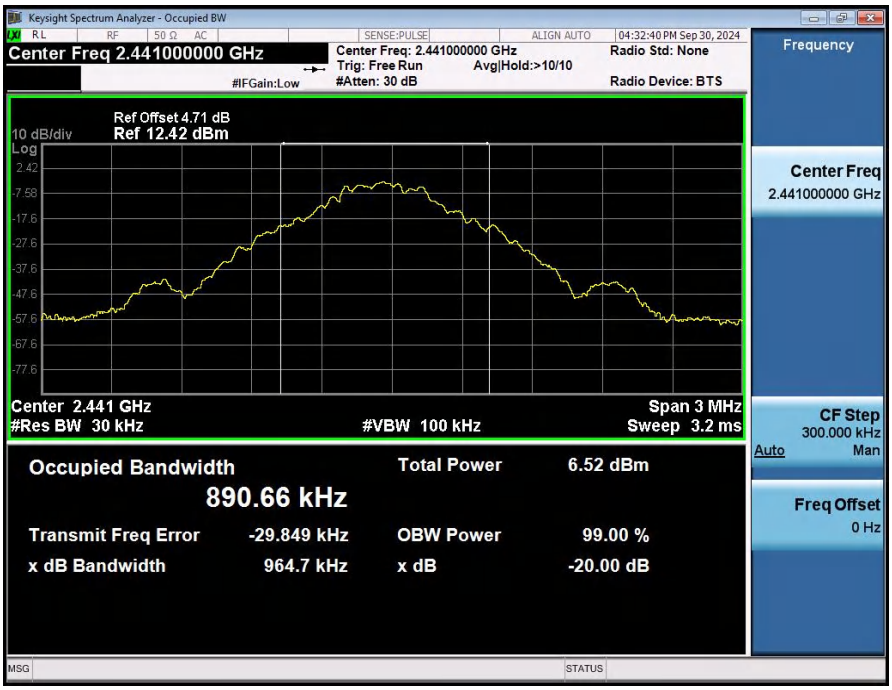
Appendix B: -20dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS
NVNT	ANT1	1-DH5	2402.00	0.957	No
NVNT	ANT1	1-DH5	2441.00	0.965	No
NVNT	ANT1	1-DH5	2480.00	1.026	Yes
NVNT	ANT1	2-DH5	2402.00	1.286	Yes
NVNT	ANT1	2-DH5	2441.00	1.288	Yes
NVNT	ANT1	2-DH5	2480.00	1.290	Yes
NVNT	ANT1	3-DH5	2402.00	1.291	Yes
NVNT	ANT1	3-DH5	2441.00	1.298	Yes
NVNT	ANT1	3-DH5	2480.00	1.304	Yes

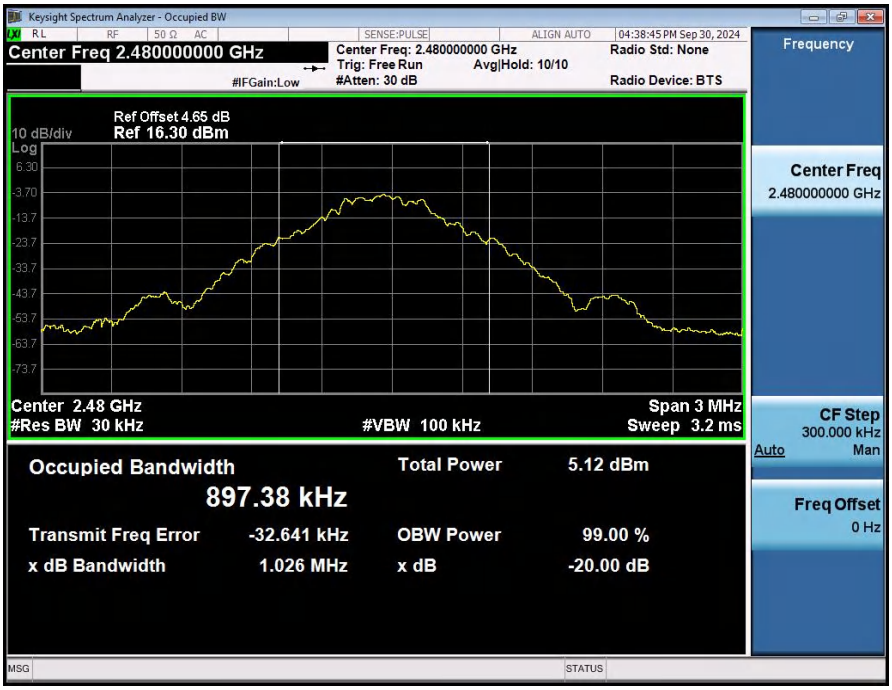
-20dB_Bandwidth_NVNT_ANT1_1-DH5_2402_00



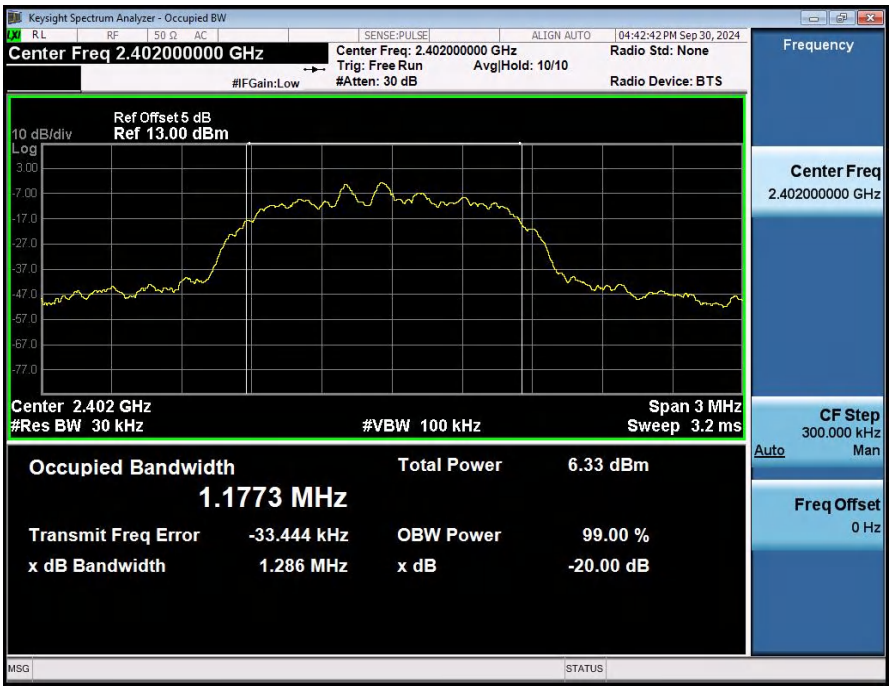
-20dB_Bandwidth_NVNT_ANT1_1-DH5_2441_00



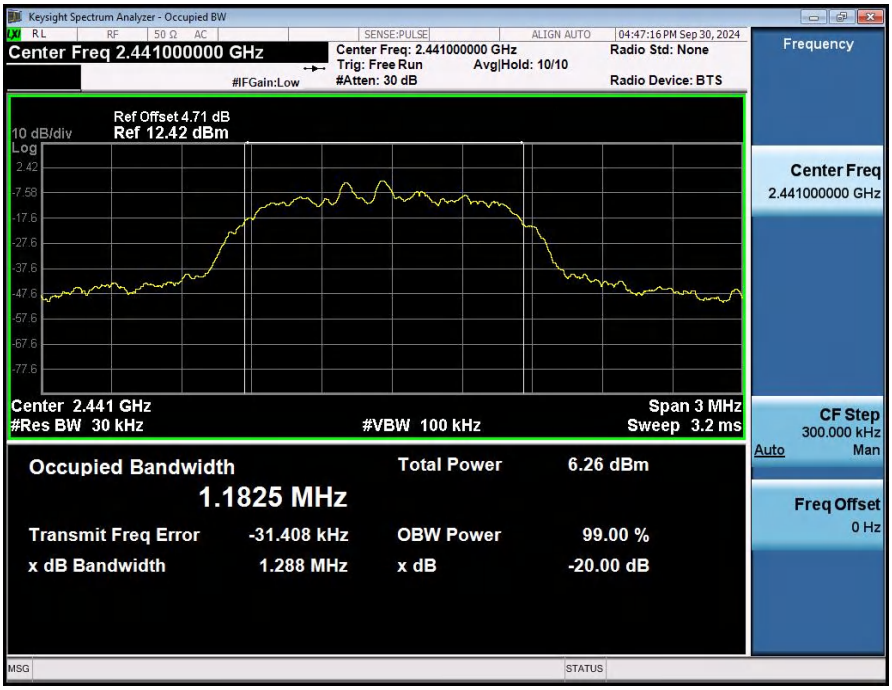
-20dB_Bandwidth_NVNT_ANT1_1-DH5_2480_00



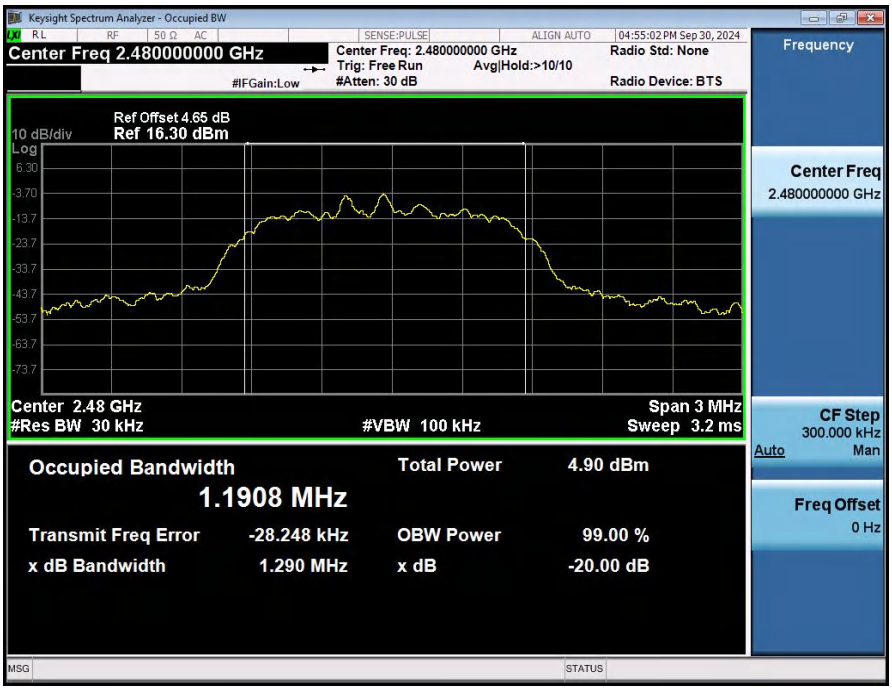
-20dB_Bandwidth_NVNT_ANT1_2-DH5_2402_00



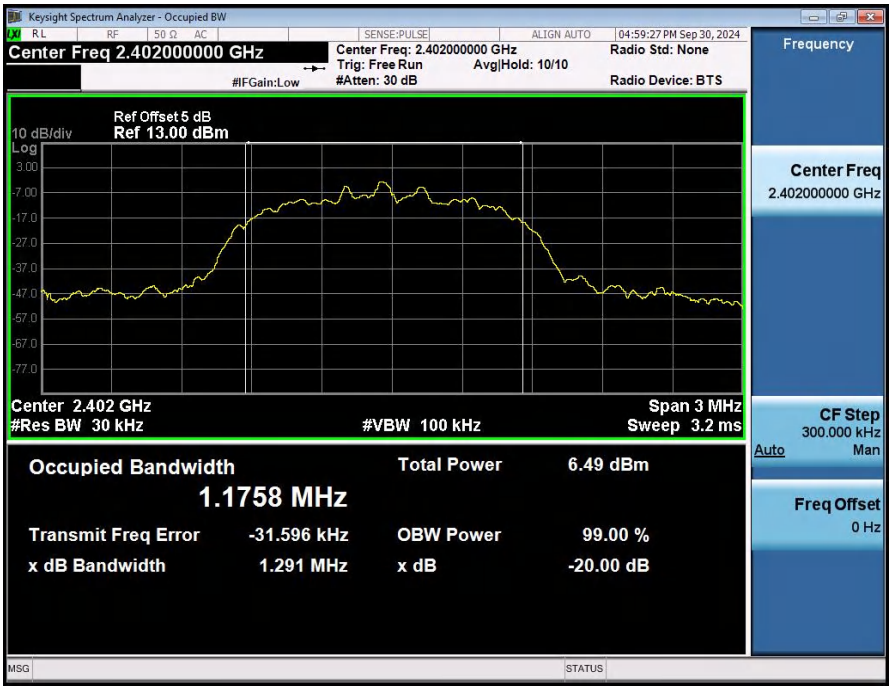
-20dB_Bandwidth_NVNT_ANT1_2-DH5_2441_00



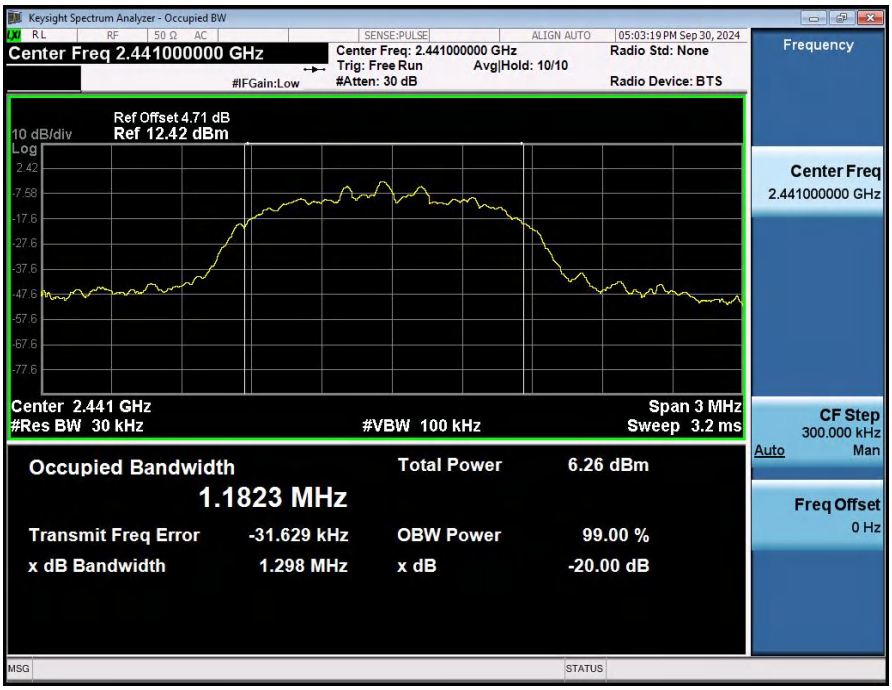
-20dB_Bandwidth_NVNT_ANT1_2-DH5_2480_00



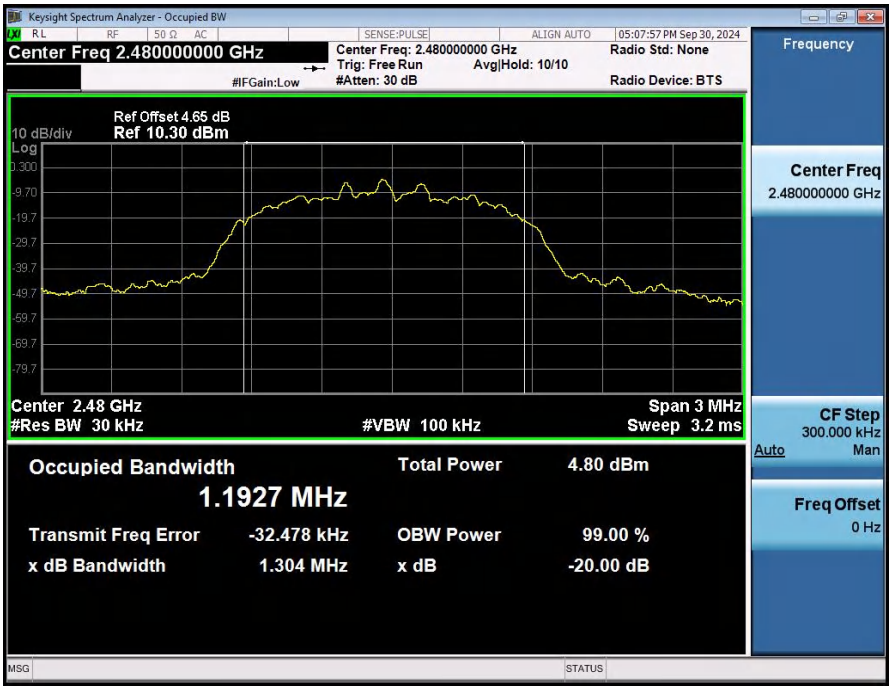
-20dB_Bandwidth_NVNT_ANT1_3-DH5_2402_00



-20dB_Bandwidth_NVNT_ANT1_3-DH5_2441_00



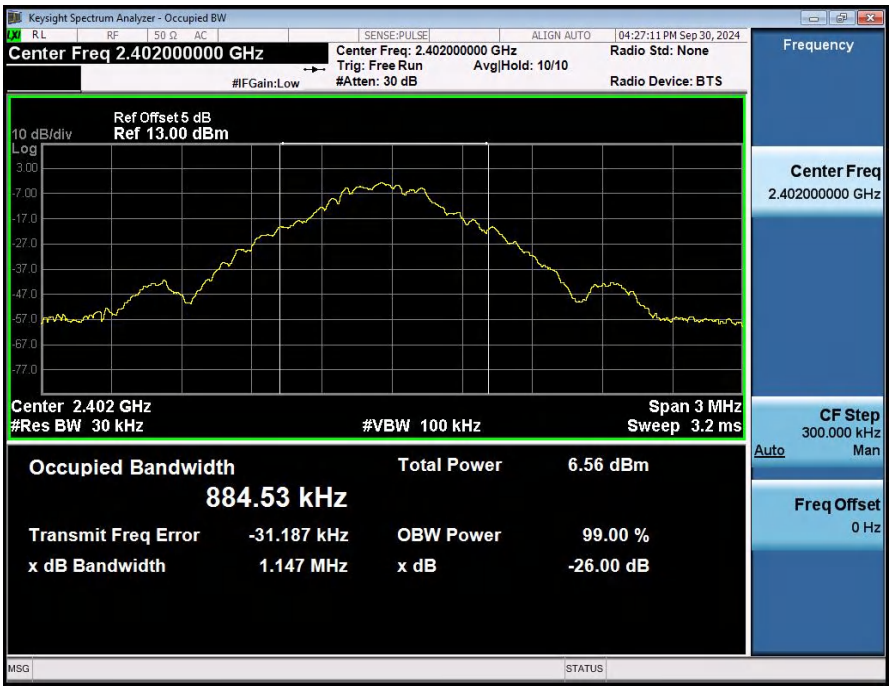
-20dB_Bandwidth_NVNT_ANT1_3-DH5_2480_00



Appendix C: 99% Occupied Bandwidth

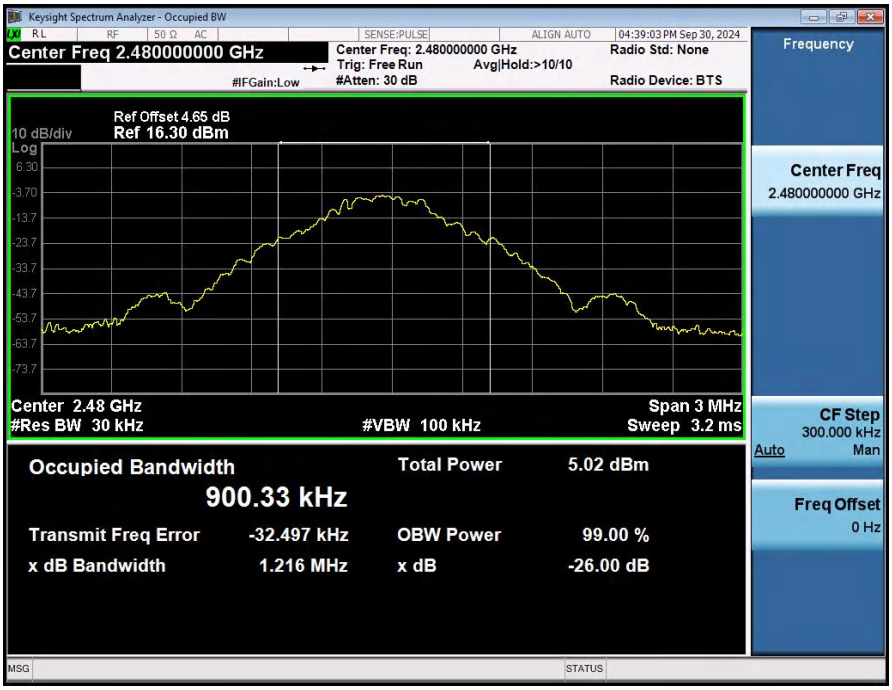
Condition	Antenna	Modulation	Frequency (MHz)	99%BW(MHz)
NVNT	ANT1	1-DH5	2402.00	0.885
NVNT	ANT1	1-DH5	2441.00	0.888
NVNT	ANT1	1-DH5	2480.00	0.900
NVNT	ANT1	2-DH5	2402.00	1.176
NVNT	ANT1	2-DH5	2441.00	1.186
NVNT	ANT1	2-DH5	2480.00	1.185
NVNT	ANT1	3-DH5	2402.00	1.176
NVNT	ANT1	3-DH5	2441.00	1.181
NVNT	ANT1	3-DH5	2480.00	1.192

99%_Occupied_Bandwidth_NVNT_ANT1_1-DH5_2402_00

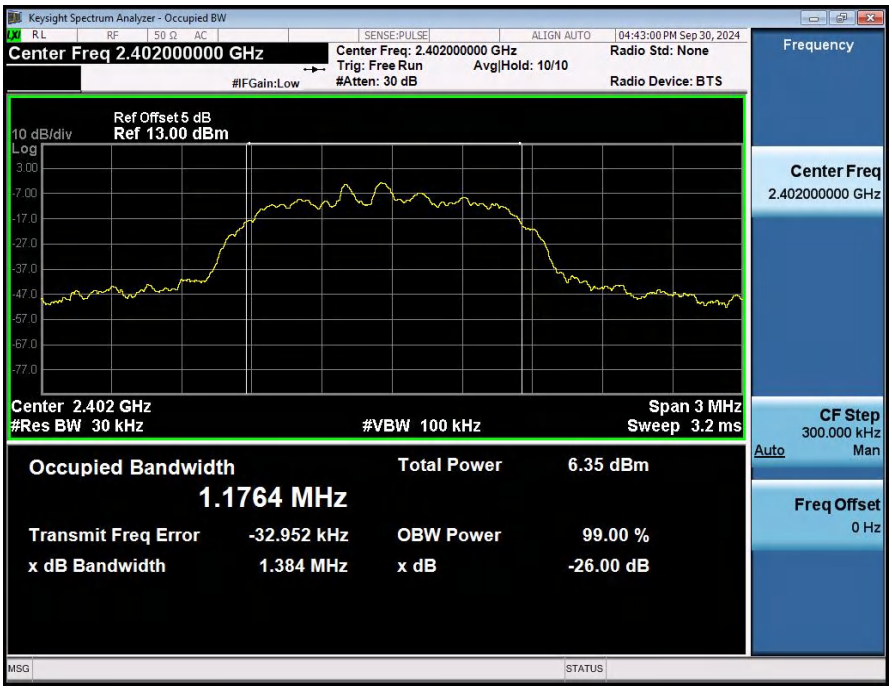


99%_Occupied_Bandwidth_NVNT_ANT1_1-DH5_2441_00

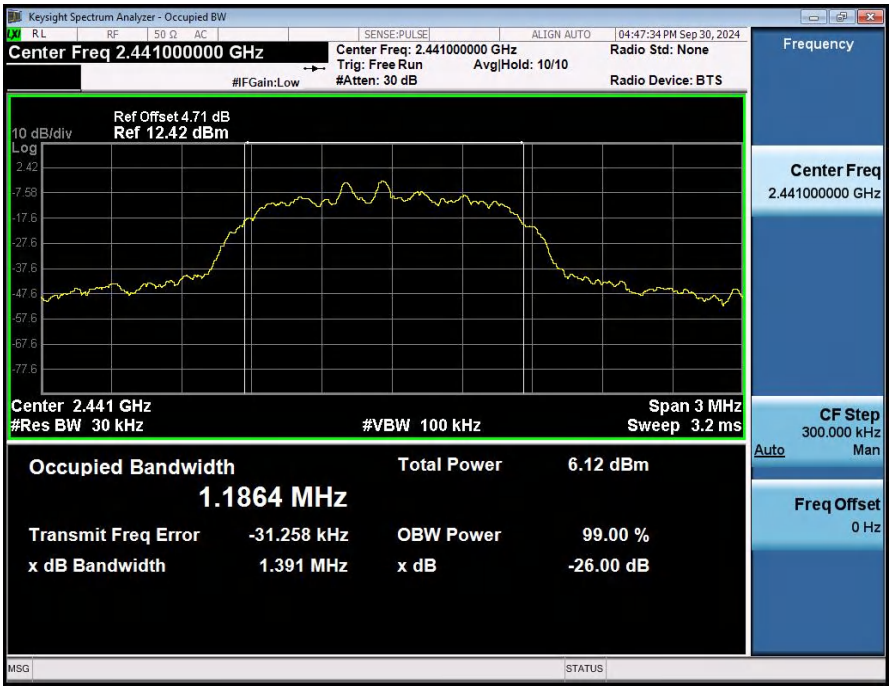
99%_Occupied_Bandwidth_NVNT_ANT1_1-DH5_2480_00



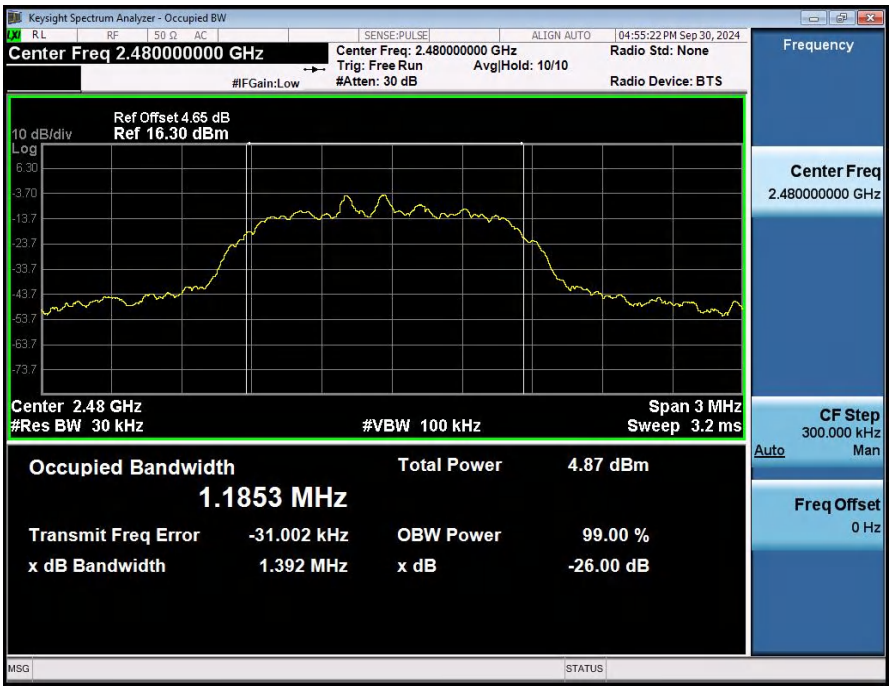
99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2402_00



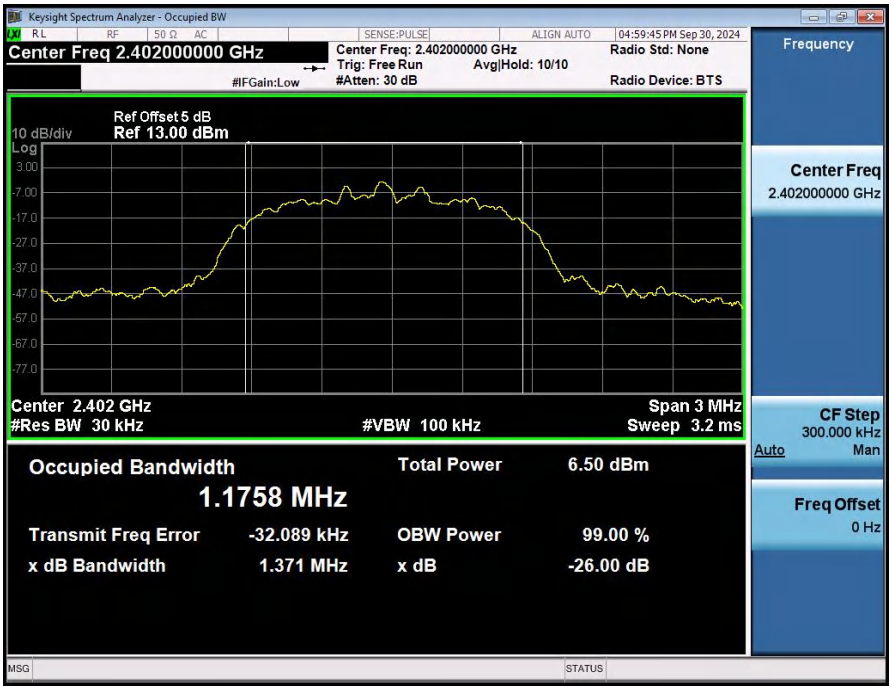
99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2441_00



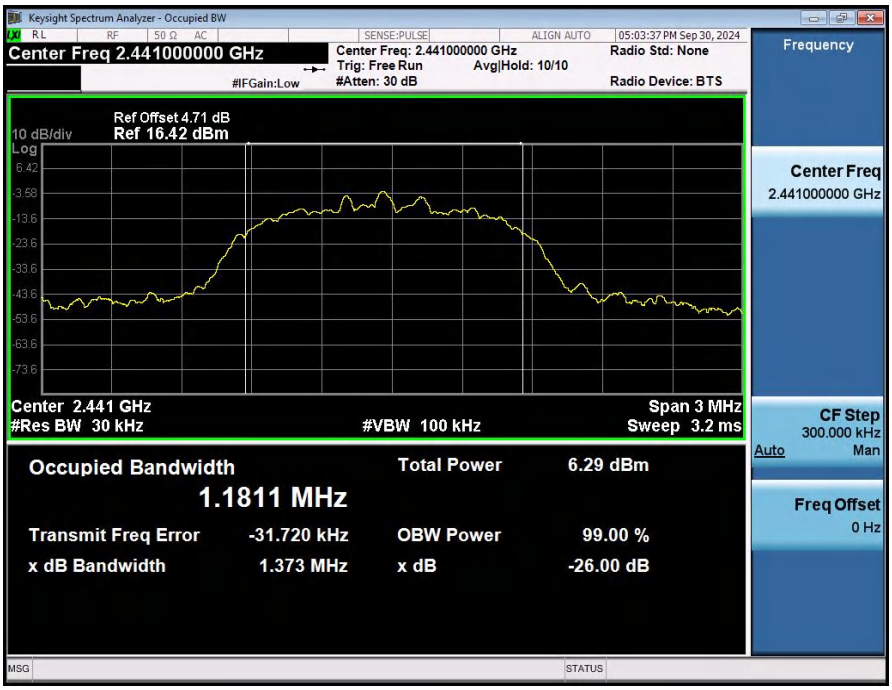
99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2480_00



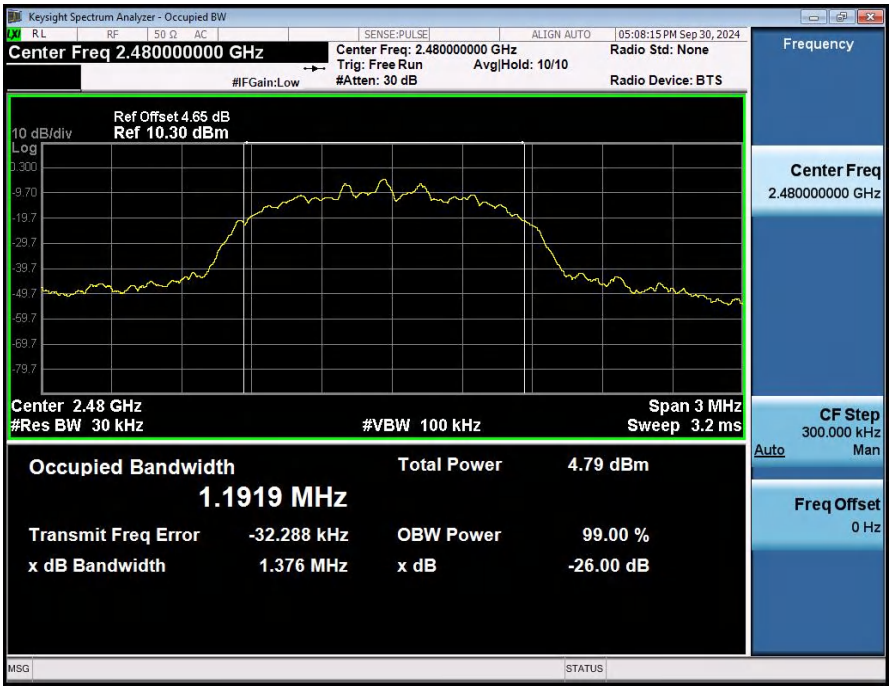
99%_Occupied_Bandwidth_NVNT_ANT1_3-DH5_2402_00



99%_Occupied_Bandwidth_NVNT_ANT1_3-DH5_2441_00



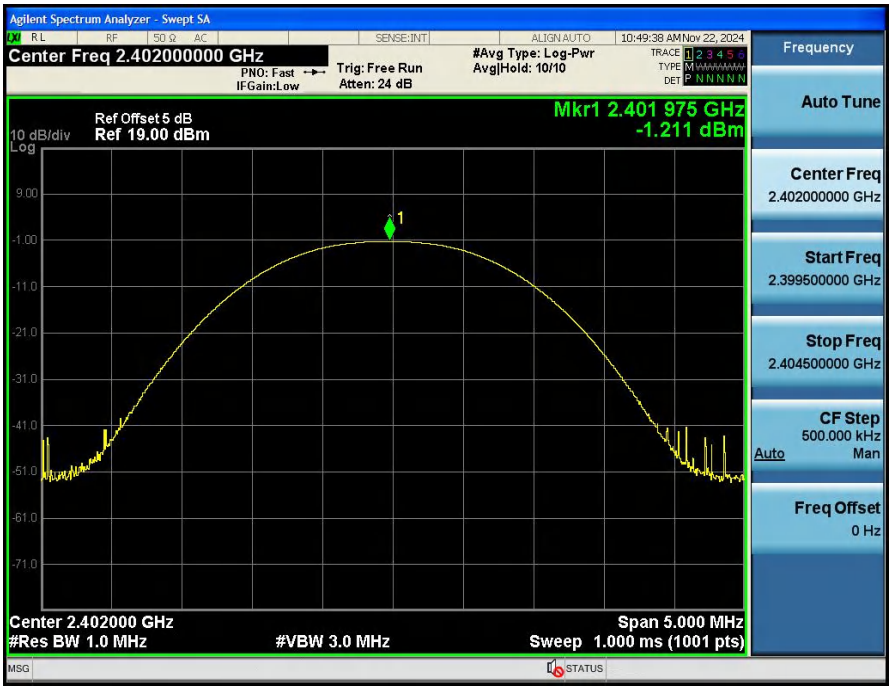
99%_Occupied_Bandwidth_NVNT_ANT1_3-DH5_2480_00



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	-1.21	0.76	1000	Pass
NVNT	ANT1	1-DH5	2441.00	-0.48	0.89	125	Pass
NVNT	ANT1	1-DH5	2480.00	-1.31	0.74	1000	Pass
NVNT	ANT1	2-DH5	2402.00	-2.24	0.60	1000	Pass
NVNT	ANT1	2-DH5	2441.00	-1.48	0.71	1000	Pass
NVNT	ANT1	2-DH5	2480.00	-1.93	0.64	1000	Pass
NVNT	ANT1	3-DH5	2402.00	-1.83	0.66	1000	Pass
NVNT	ANT1	3-DH5	2441.00	-1.00	0.80	1000	Pass
NVNT	ANT1	3-DH5	2480.00	-1.54	0.70	1000	Pass

Peak_Output_Power_NVNT_ANT1_1-DH5_2402_00



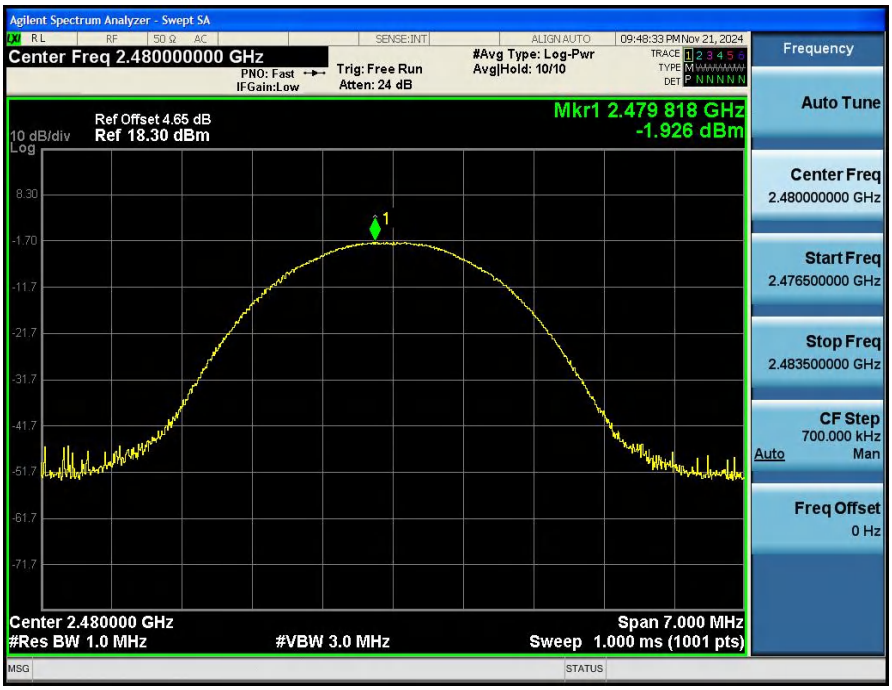
Peak_Output_Power_NVNT_ANT1_1-DH5_2441_00

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

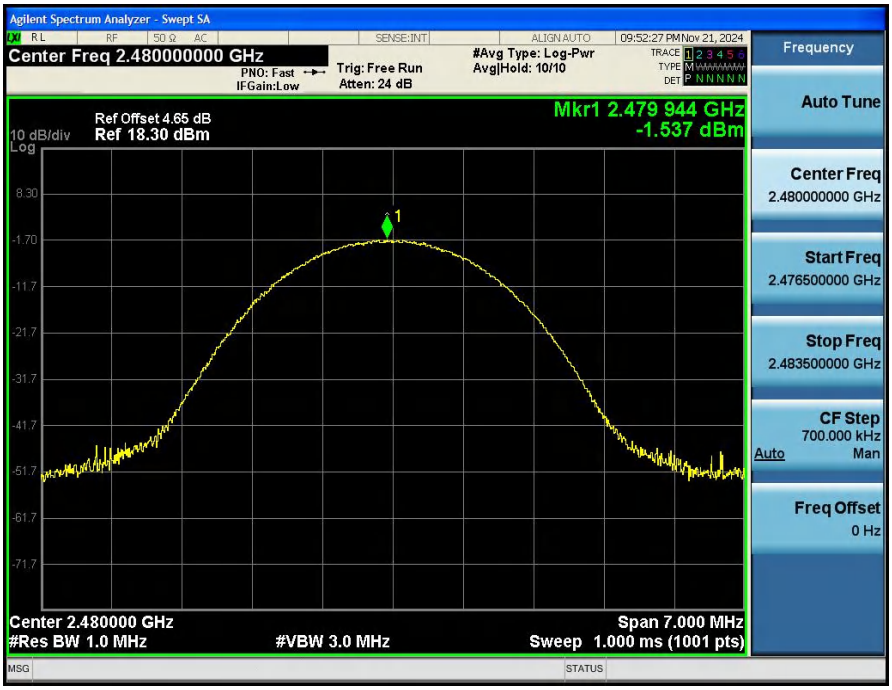
Peak_Output_Power_NVNT_ANT1_2-DH5_2480_00



Peak_Output_Power_NVNT_ANT1_3-DH5_2402_00

Peak_Output_Power_NVNT_ANT1_3-DH5_2441_00

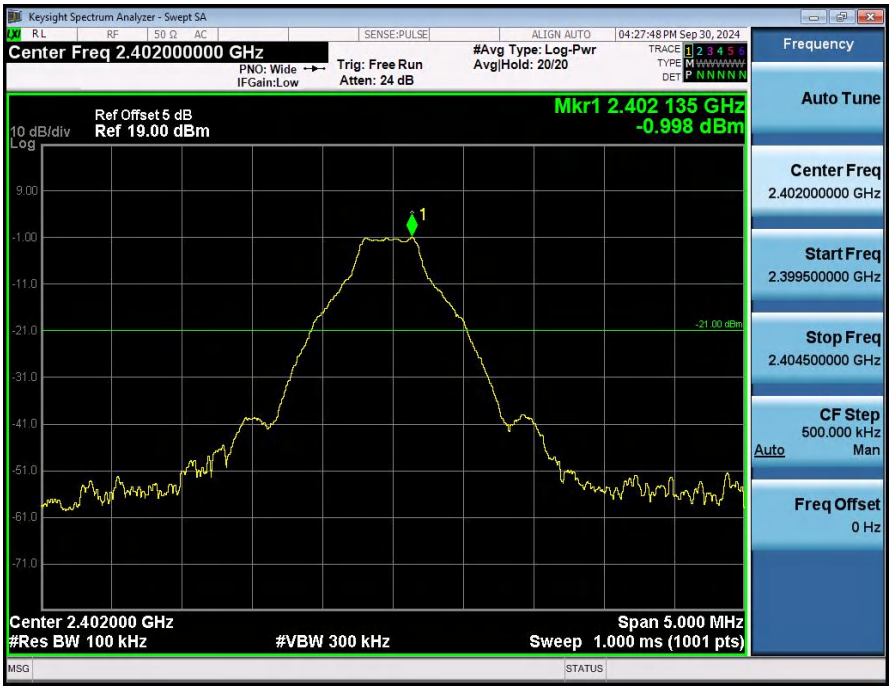
Peak_Output_Power_NVNT_ANT1_3-DH5_2480_00



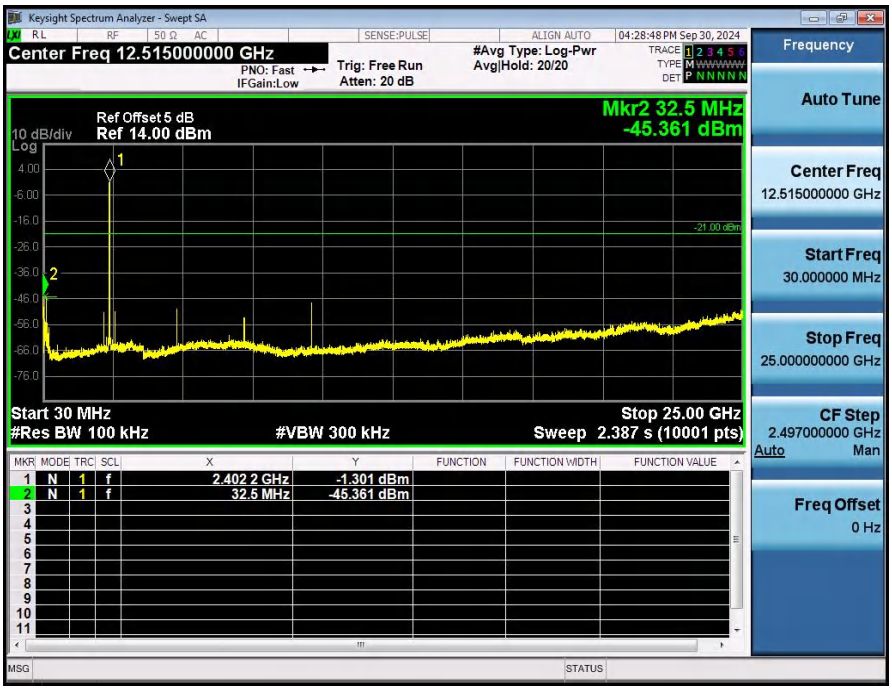
Appendix E: Spurious Emissions

Condition	Antenna	Modulation	TX Mode	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1-DH5	2402.00	-45.361	-20.998	Pass
NVNT	ANT1	1-DH5	2441.00	-46.022	-21.191	Pass
NVNT	ANT1	1-DH5	2480.00	-46.193	-22.563	Pass
NVNT	ANT1	2-DH5	2402.00	-45.799	-20.960	Pass
NVNT	ANT1	2-DH5	2441.00	-43.762	-21.157	Pass
NVNT	ANT1	2-DH5	2480.00	-35.734	-22.337	Pass
NVNT	ANT1	3-DH5	2402.00	-39.485	-20.837	Pass
NVNT	ANT1	3-DH5	2441.00	-37.450	-21.099	Pass
NVNT	ANT1	3-DH5	2480.00	-46.078	-22.452	Pass

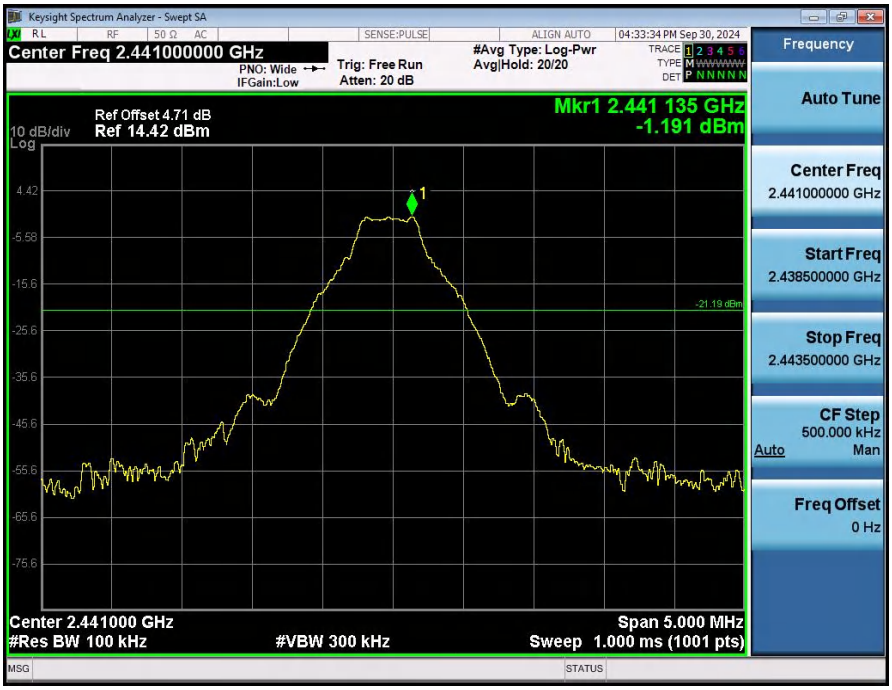
1_Reference_Level_NVNT_ANT1_1-DH5_2402_00



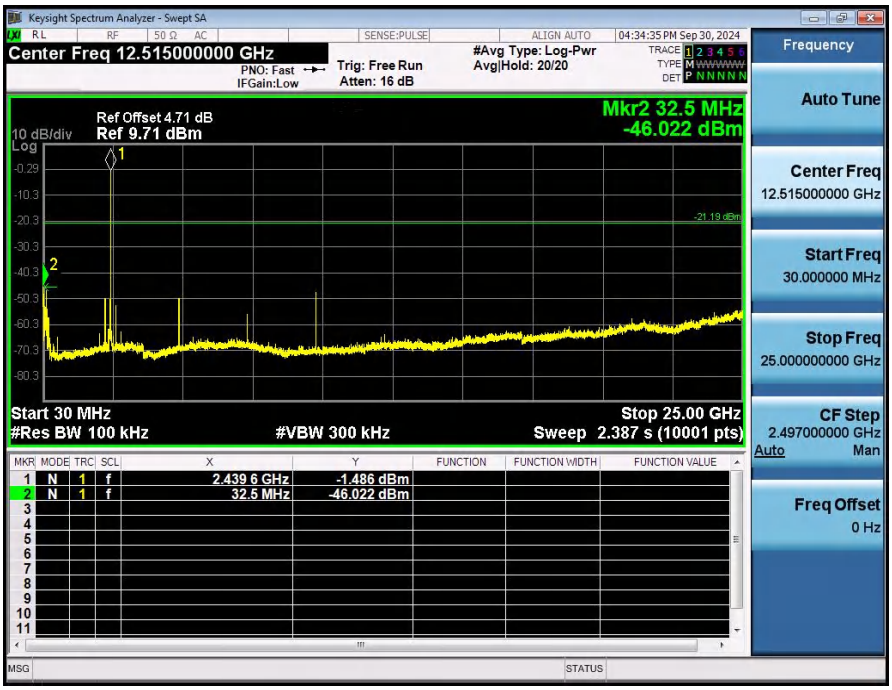
2_Spurious_Emissions_NVNT_ANT1_1-DH5_2402_00



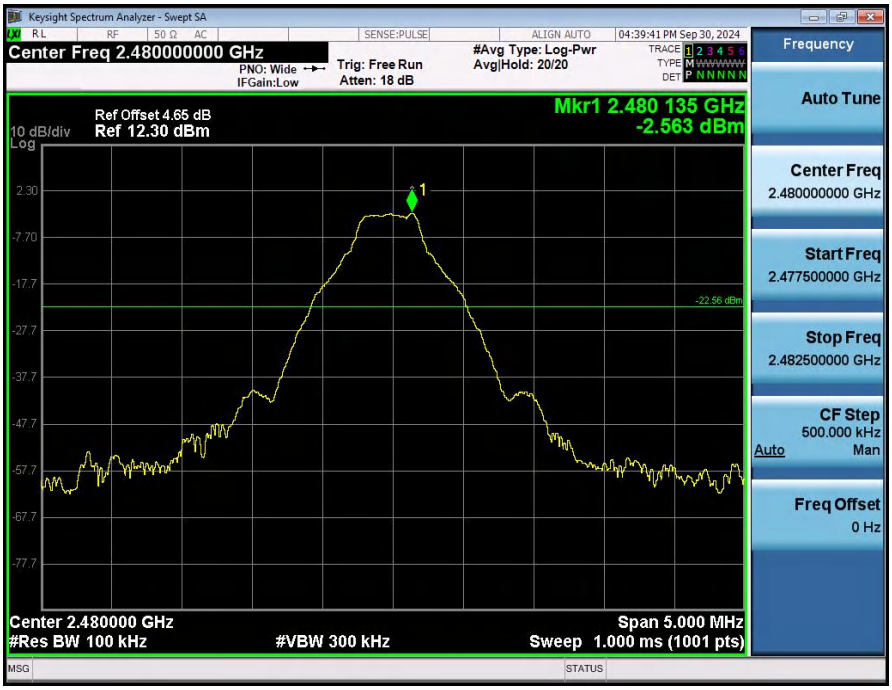
1_Reference_Level_NVNT_ANT1_1-DH5_2441_00



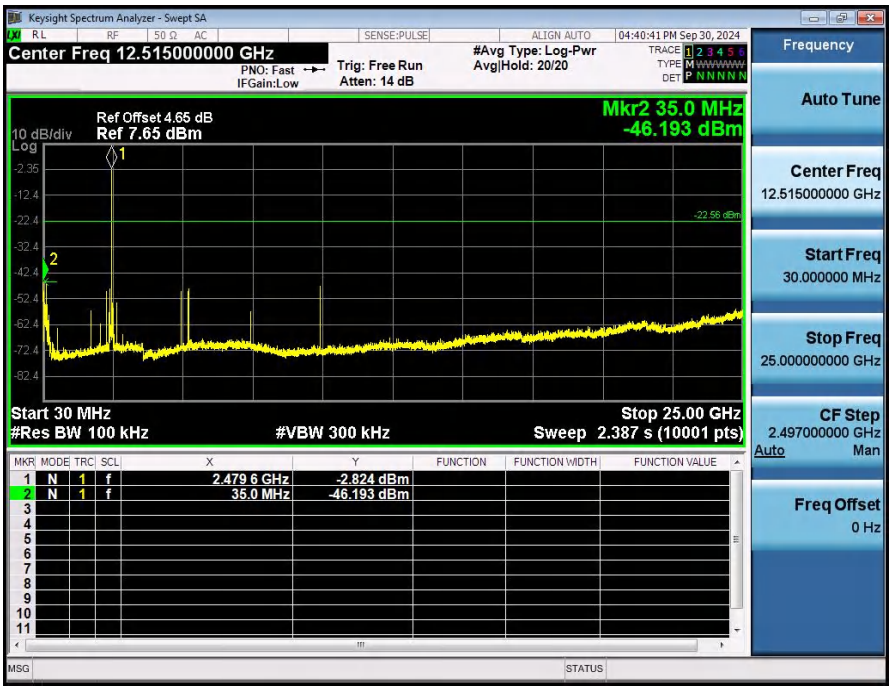
2_Spurious_Emissions_NVNT_ANT1_1-DH5_2441_00



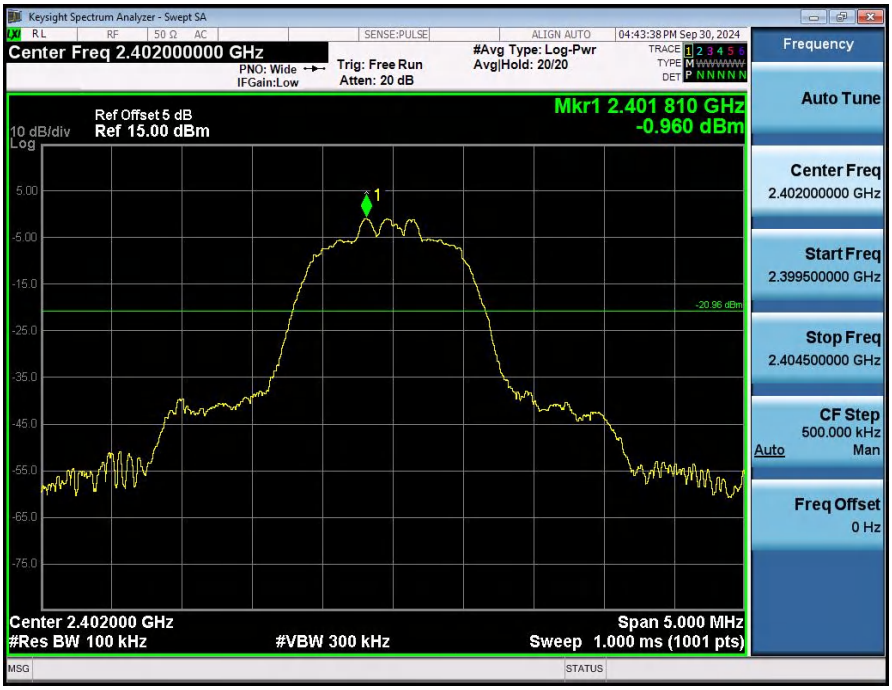
1_Reference_Level_NVNT_ANT1_1-DH5_2480_00



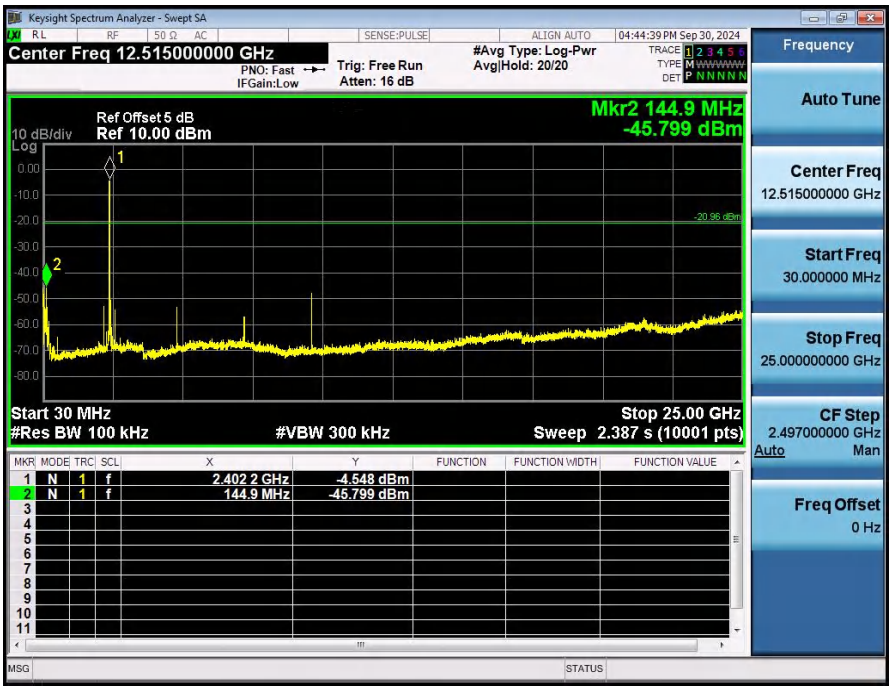
2_Spurious_Emissions_NVNT_ANT1_1-DH5_2480_00



1_Reference_Level_NVNT_ANT1_2-DH5_2402_00

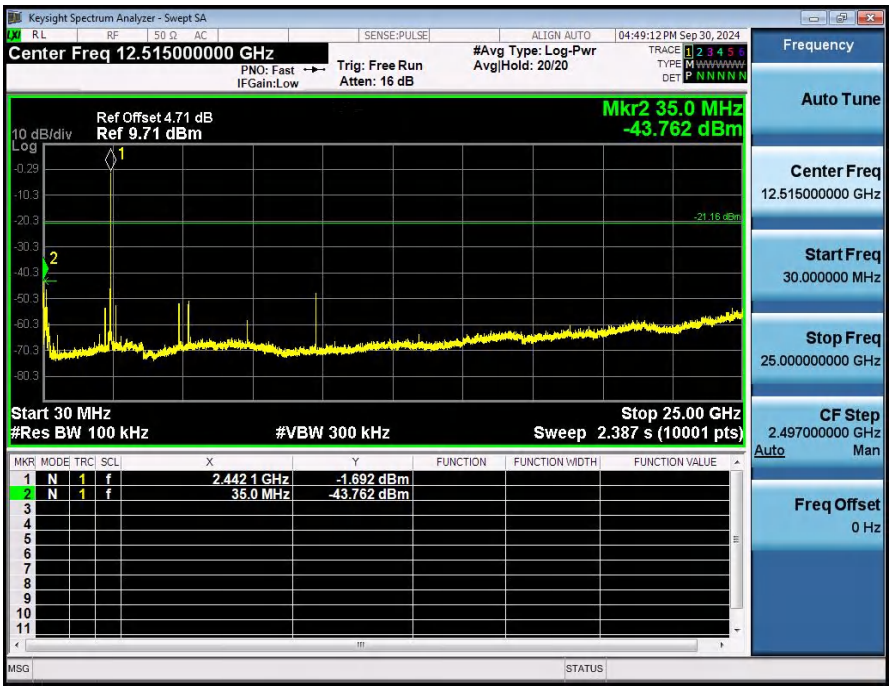


2_Spurious_Emissions_NVNT_ANT1_2-DH5_2402_00



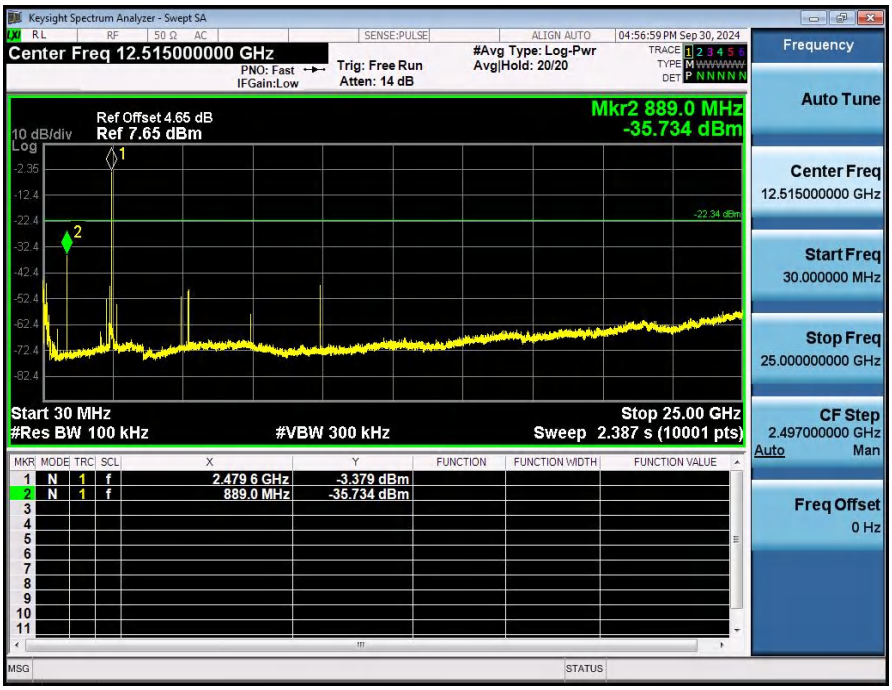
1_Reference_Level_NVNT_ANT1_2-DH5_2441_00

2_Spurious_Emissions_NVNT_ANT1_2-DH5_2441_00

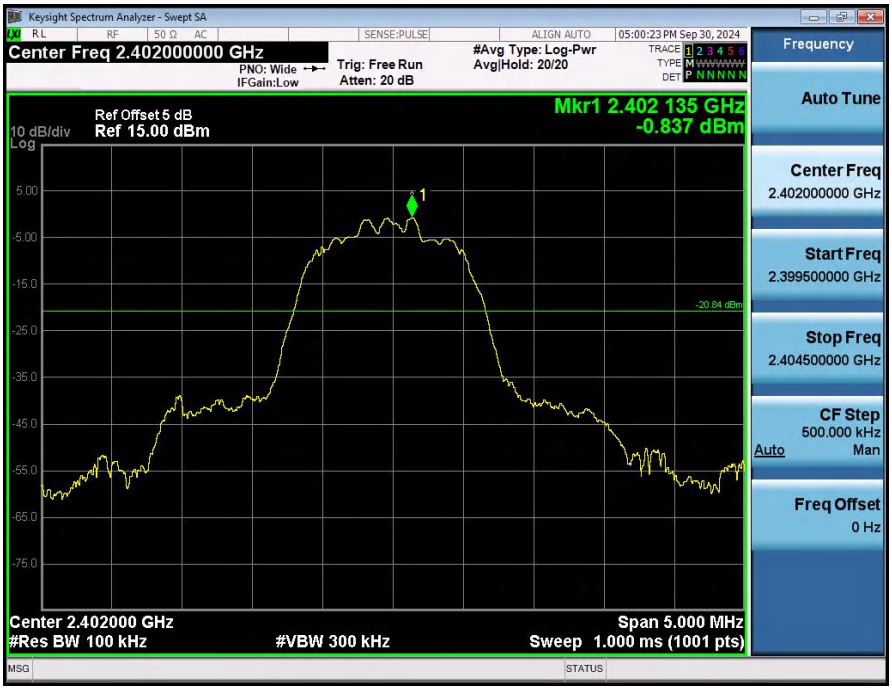


1_Reference_Level_NVNT_ANT1_2-DH5_2480_00

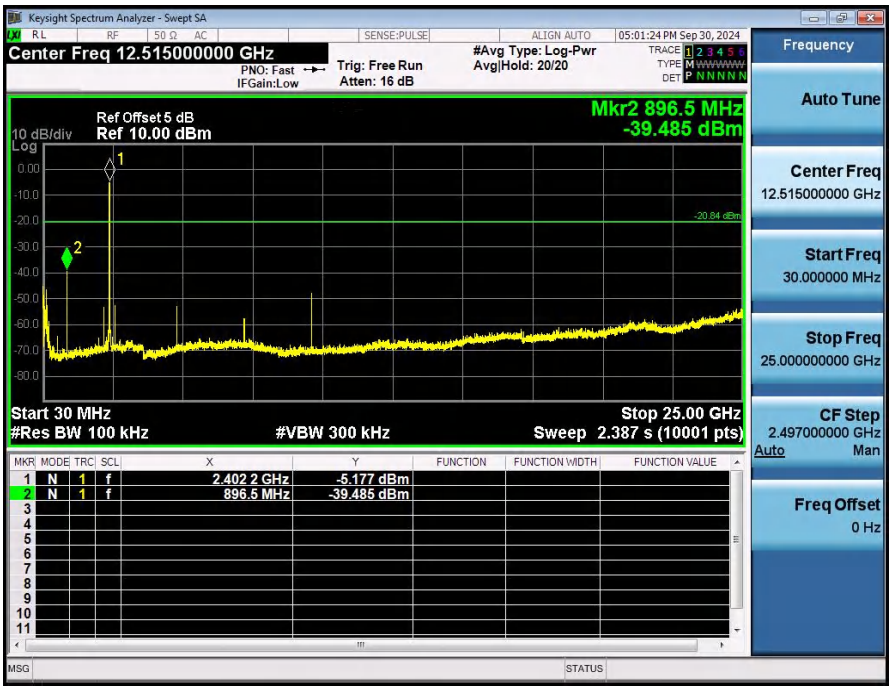
2_Spurious_Emissions_NVNT_ANT1_2-DH5_2480_00



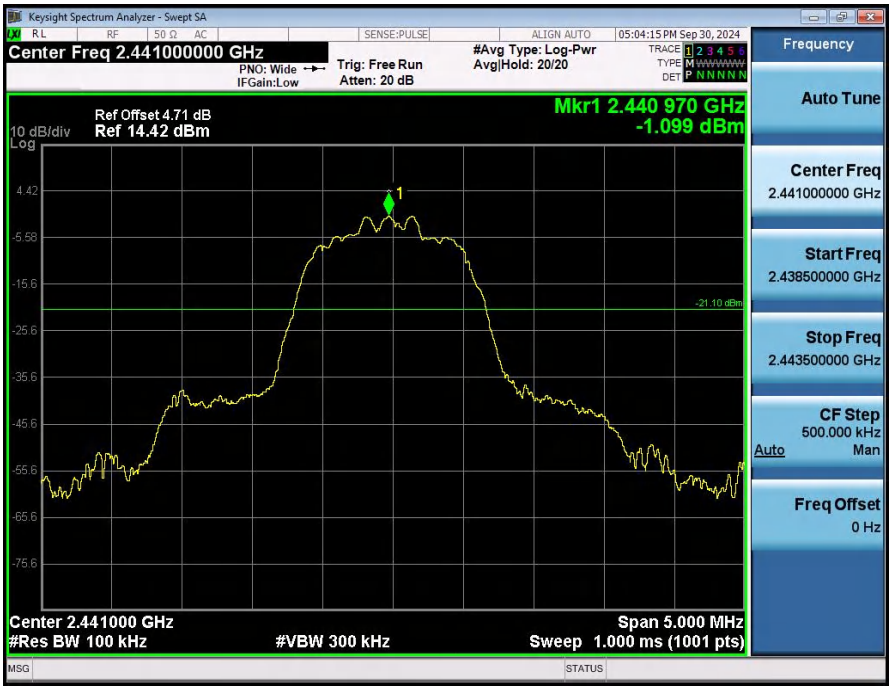
1_Reference_Level_NVNT_ANT1_3-DH5_2402_00



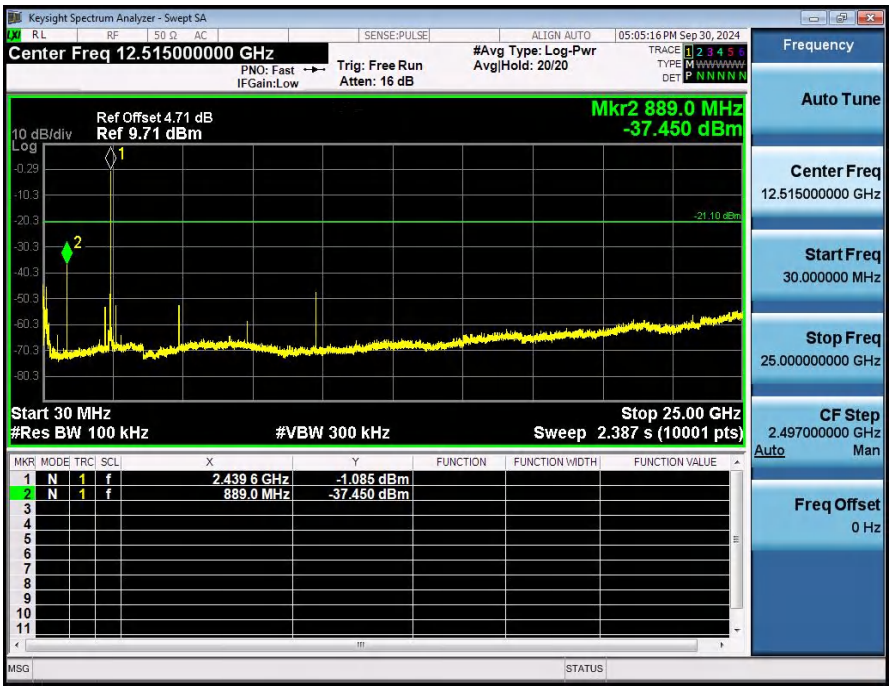
2_Spurious_Emissions_NVNT_ANT1_3-DH5_2402_00



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