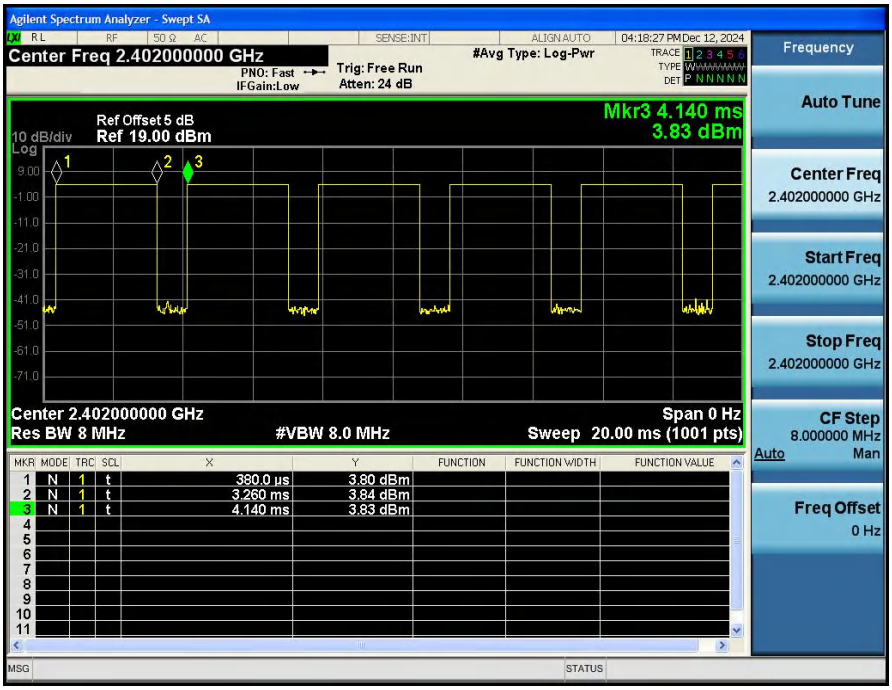
Appendix Test Data

Report No.:	1812C40175412501	Test Sample No.:	1-2-2
Start Test Date:	2024.12.12	Finish Test Date:	2024.12.12
Test Engineer:	Jokes Wang	Auditor:	Justin Feng
Temperature:	23.9℃	Relative Humidity:	52%
Pressure:	101kPa		

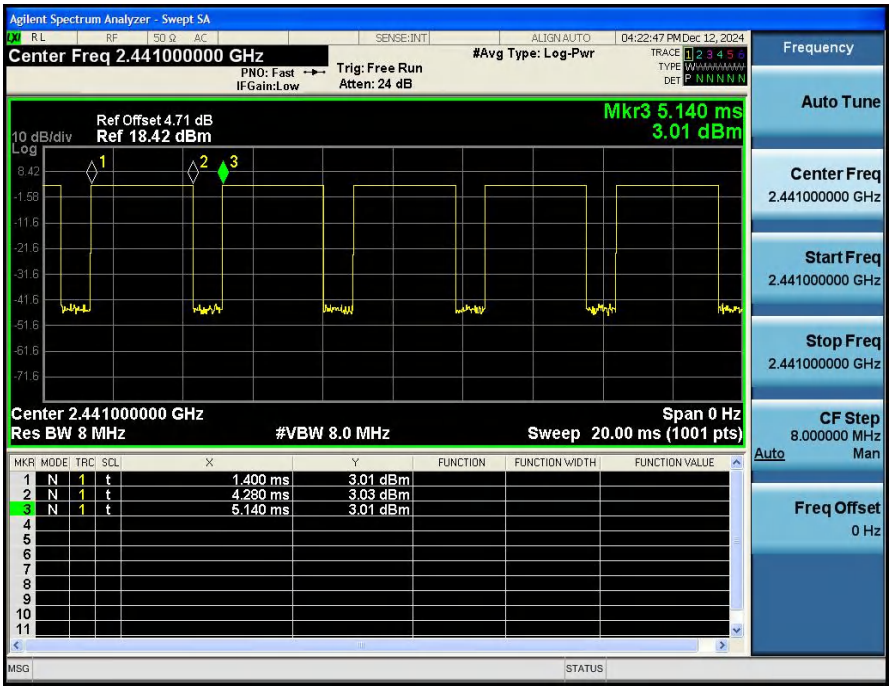
Appendix A: Duty Cycle

Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	1-DH5	2402.00	76.60	1.16
NVNT	ANT1	1-DH5	2441.00	77.54	1.10
NVNT	ANT1	1-DH5	2480.00	77.13	1.13
NVNT	ANT1	2-DH5	2402.00	77.54	1.10
NVNT	ANT1	2-DH5	2441.00	77.13	1.13
NVNT	ANT1	2-DH5	2480.00	77.54	1.10
NVNT	ANT1	3-DH5	2402.00	77.66	1.10
NVNT	ANT1	3-DH5	2441.00	77.54	1.10
NVNT	ANT1	3-DH5	2480.00	77.13	1.13

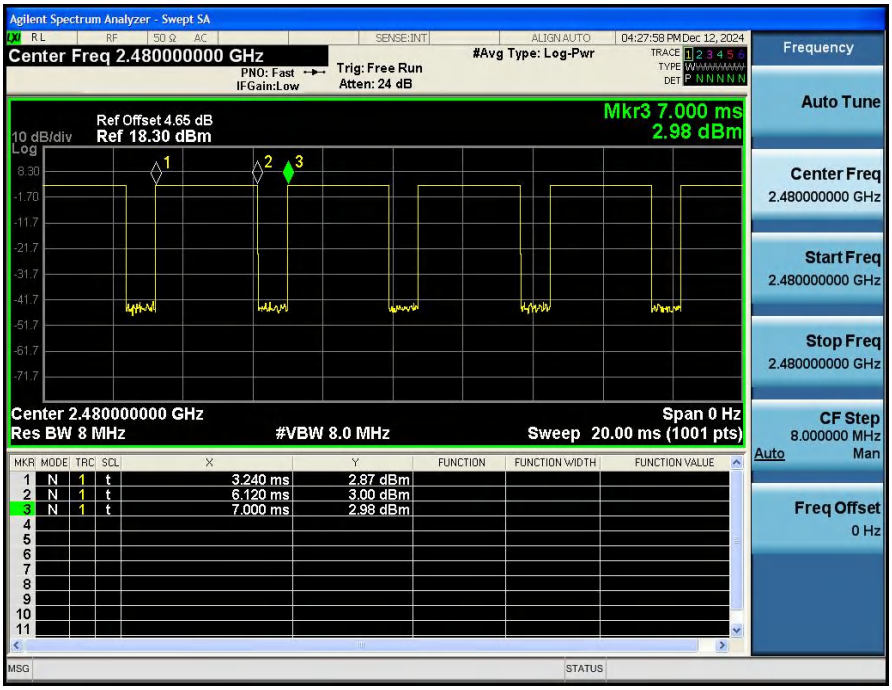
Duty_Cycle_NVNT_ANT1_1-DH5_2402



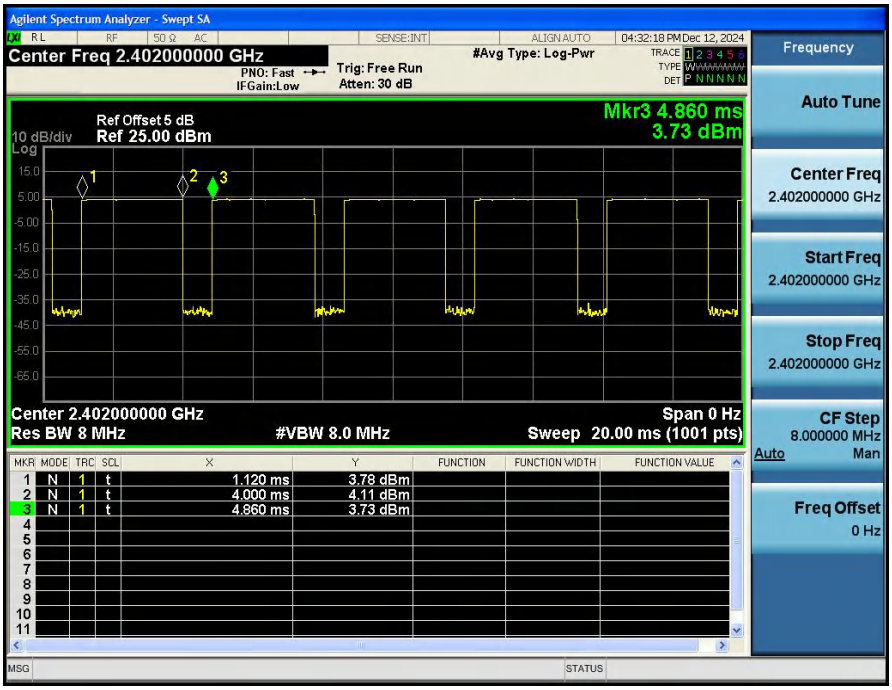
Duty_Cycle_NVNT_ANT1_1-DH5_2441



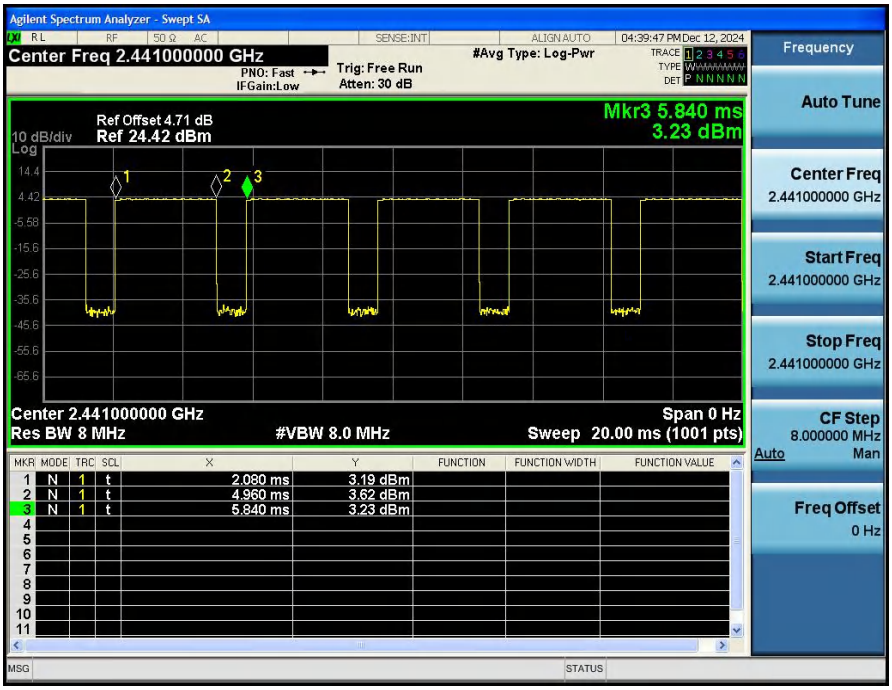
Duty_Cycle_NVNT_ANT1_1-DH5_2480



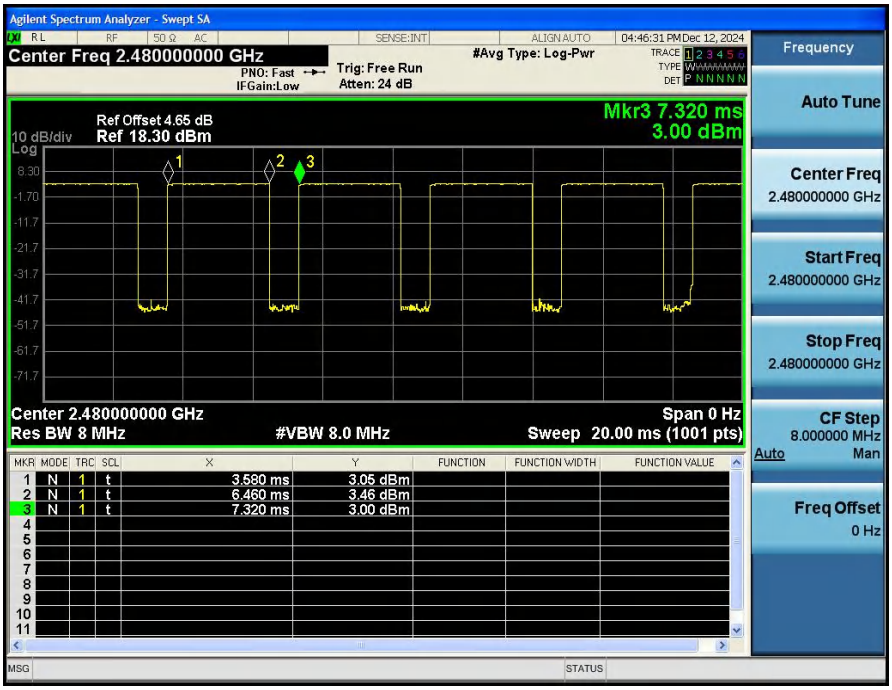
Duty_Cycle_NVNT_ANT1_2-DH5_2402



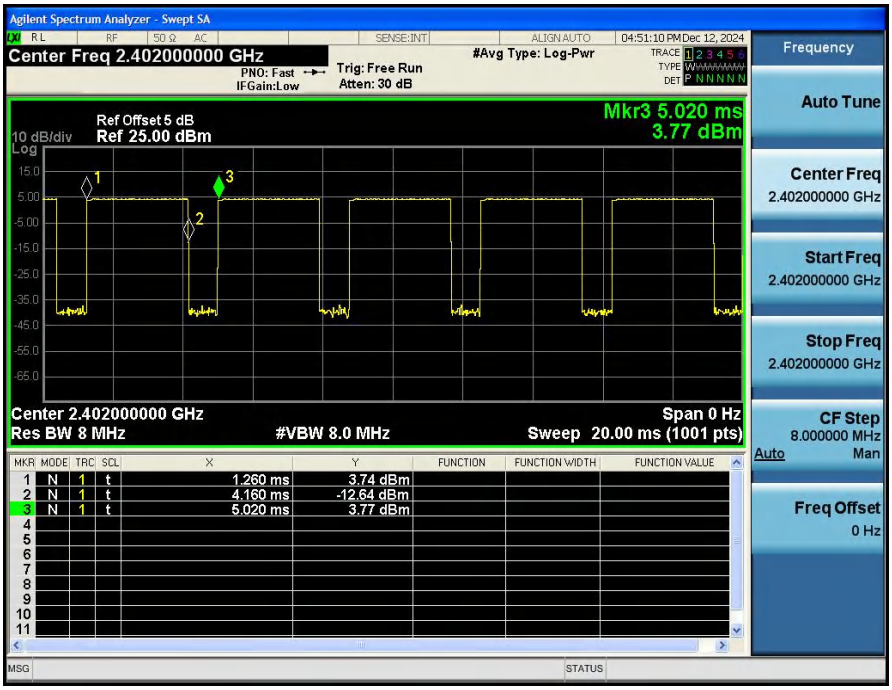
Duty_Cycle_NVNT_ANT1_2-DH5_2441



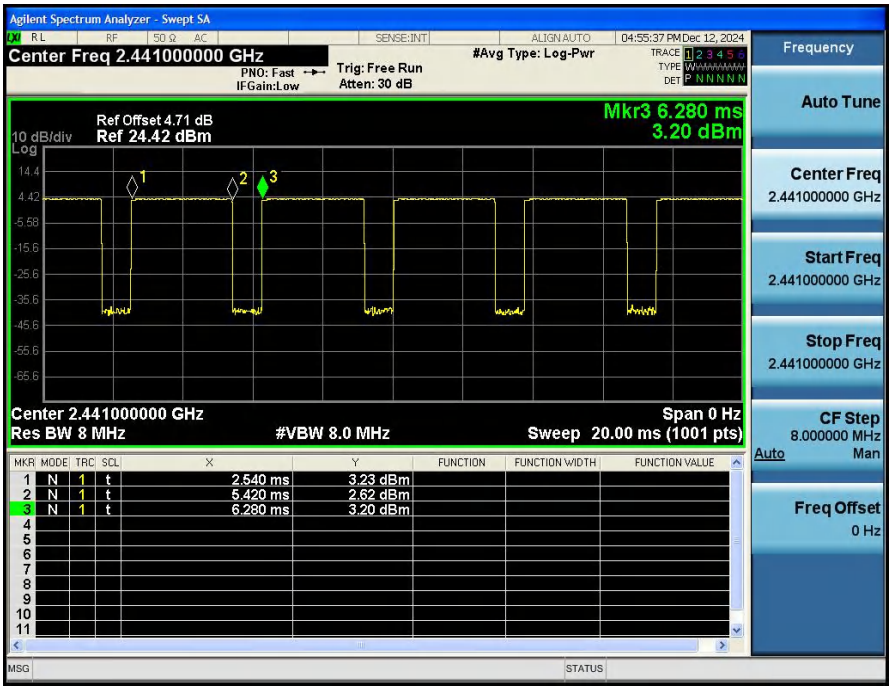
Duty_Cycle_NVNT_ANT1_2-DH5_2480



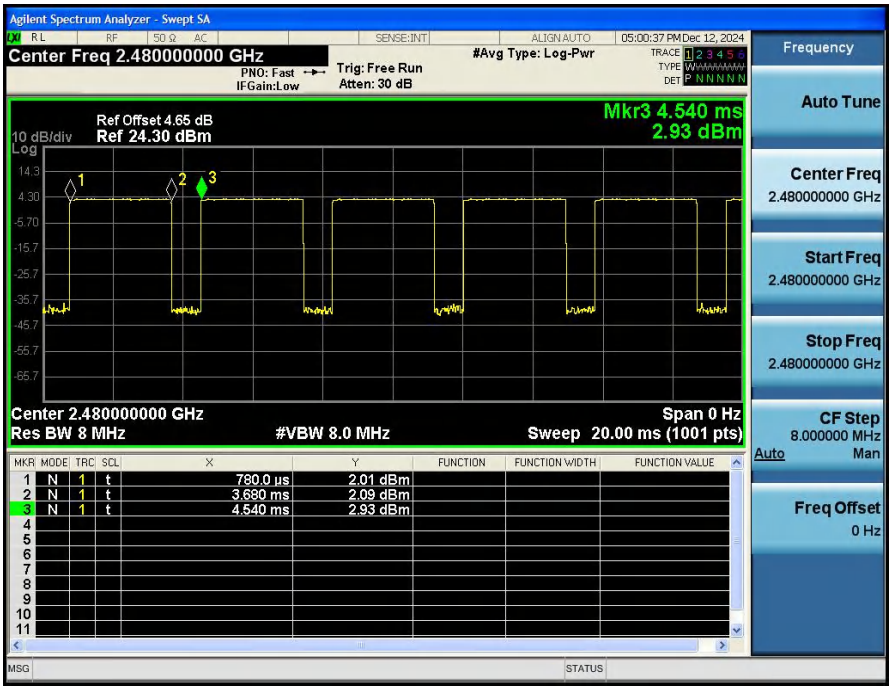
Duty_Cycle_NVNT_ANT1_3-DH5_2402



Duty_Cycle_NVNT_ANT1_3-DH5_2441



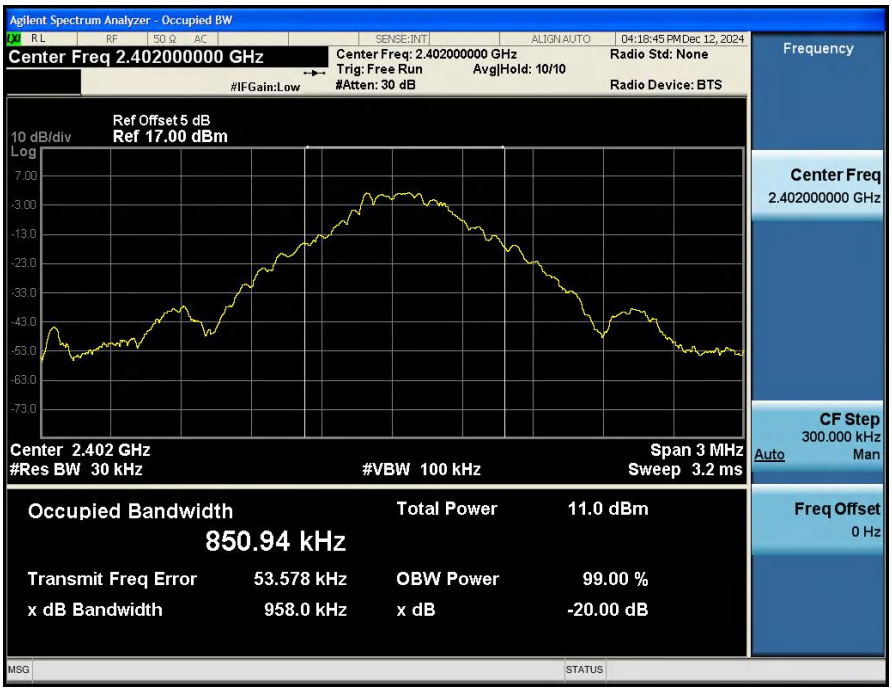
Duty_Cycle_NVNT_ANT1_3-DH5_2480


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.480000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
#Avg Type: Log-Pwr
05:00:37 PM Dec 12, 2024
Ref Offset 4.65 dB
10 dB/div
Log
Ref 24.30 dBm
Mkr3 4.540 ms
2.93 dBm
14.3
4.30
-5.70
-15.7
-25.7
-35.7
-45.7
-55.7
-65.7
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 780.0 µs 2.01 dBm
2 N 1 t 3.680 ms 2.09 dBm
3 N 1 t 4.540 ms 2.93 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

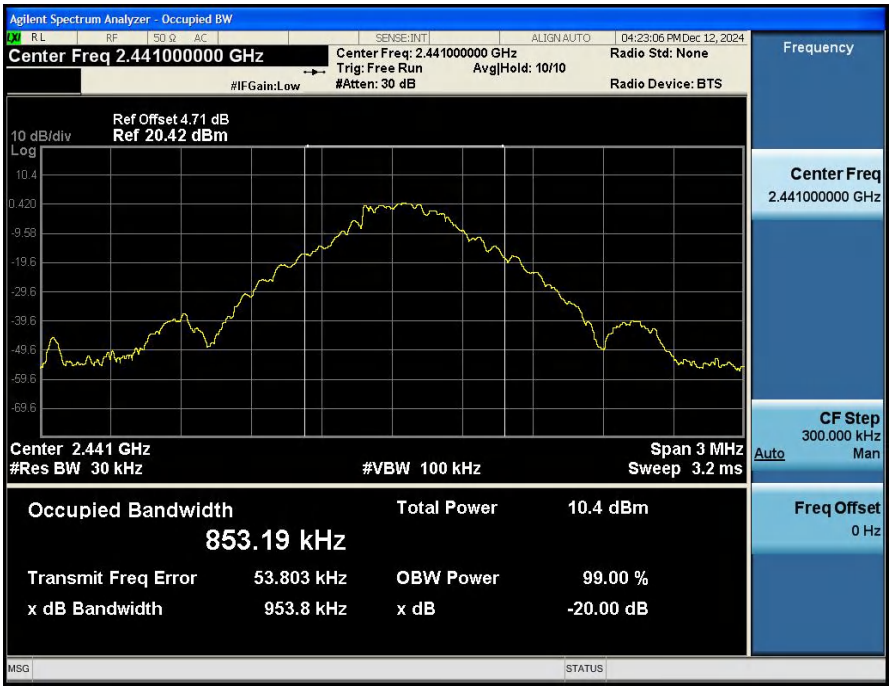
Appendix B: -20dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS
NVNT	ANT1	1-DH5	2402.00	0.958	No
NVNT	ANT1	1-DH5	2441.00	0.954	No
NVNT	ANT1	1-DH5	2480.00	0.954	No
NVNT	ANT1	2-DH5	2402.00	1.321	Yes
NVNT	ANT1	2-DH5	2441.00	1.316	Yes
NVNT	ANT1	2-DH5	2480.00	1.316	Yes
NVNT	ANT1	3-DH5	2402.00	1.312	Yes
NVNT	ANT1	3-DH5	2441.00	1.308	Yes
NVNT	ANT1	3-DH5	2480.00	1.308	Yes

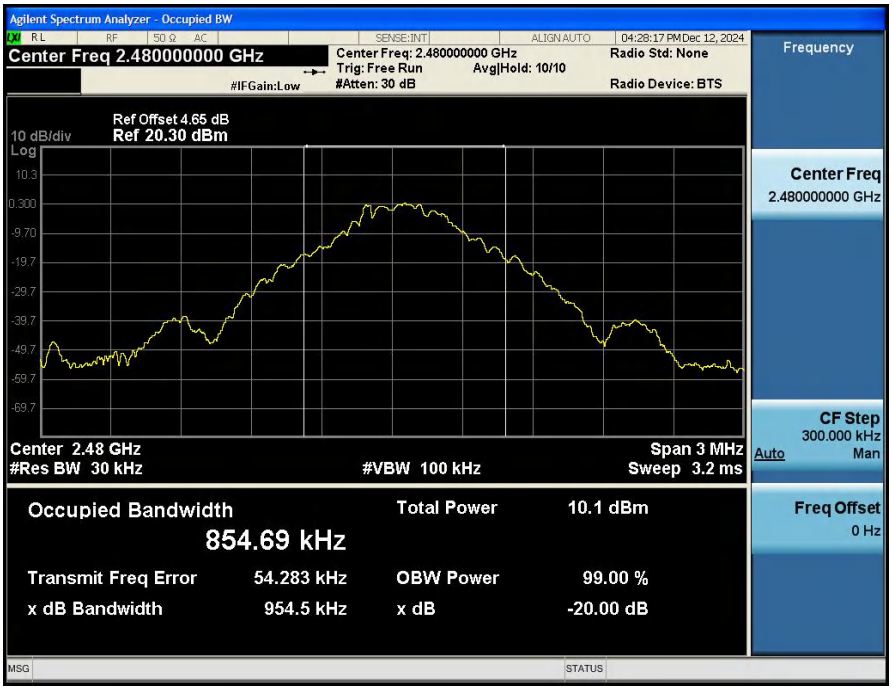
-20dB_Bandwidth_NVNT_ANT1_1-DH5_2402_00



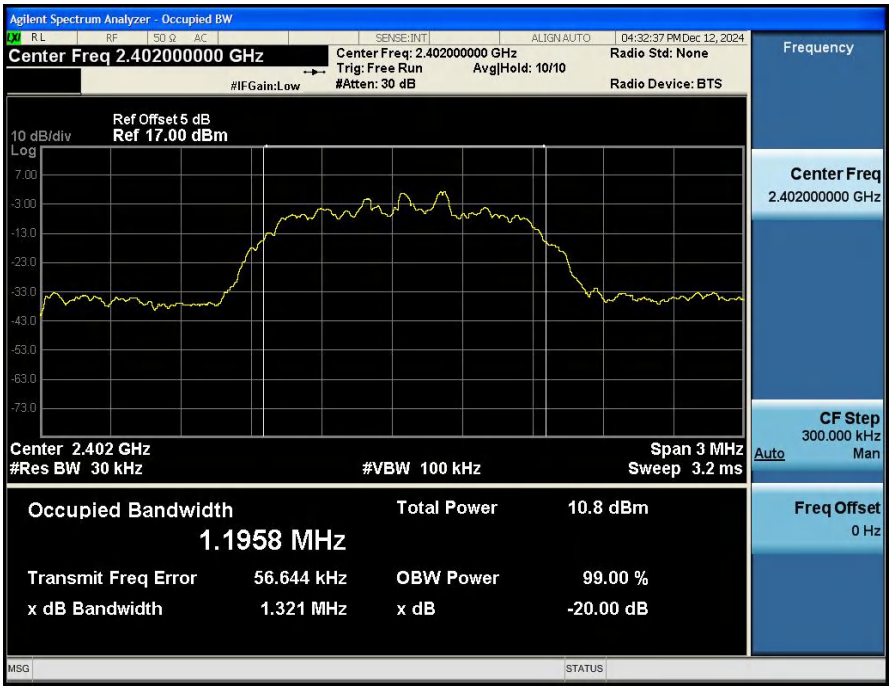
-20dB_Bandwidth_NVNT_ANT1_1-DH5_2441_00



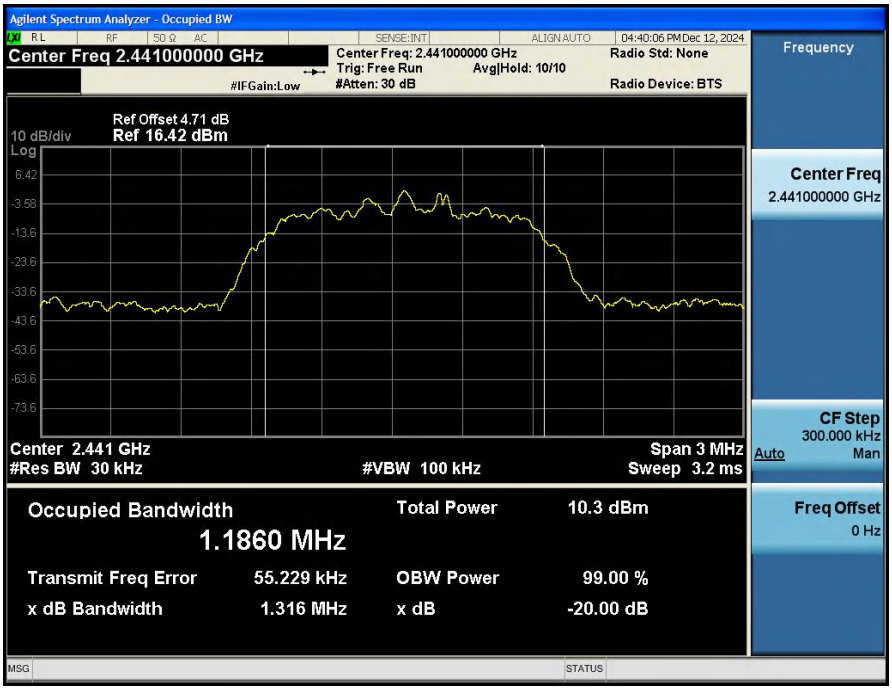
-20dB_Bandwidth_NVNT_ANT1_1-DH5_2480_00



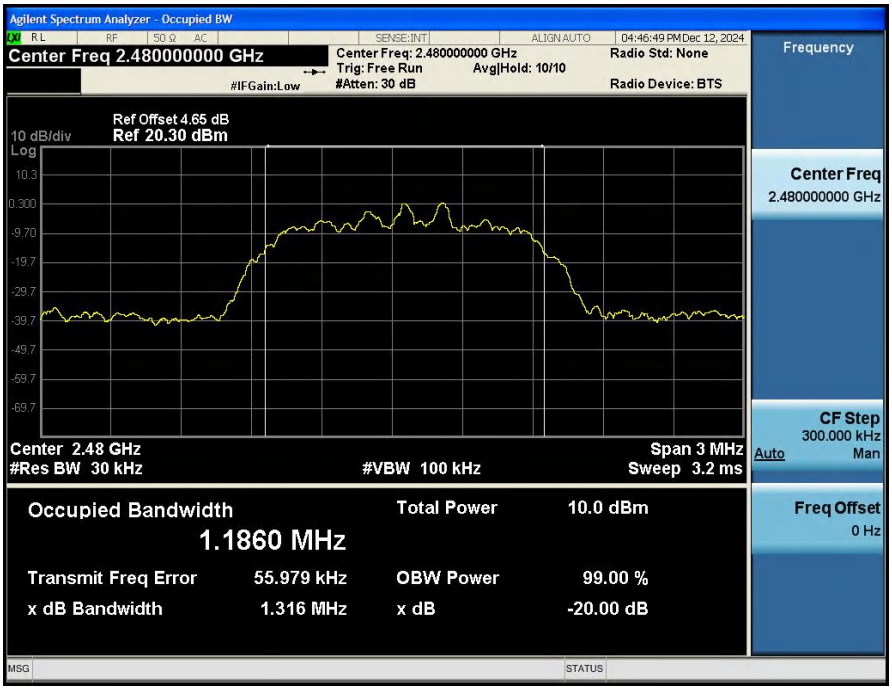
-20dB_Bandwidth_NVNT_ANT1_2-DH5_2402_00



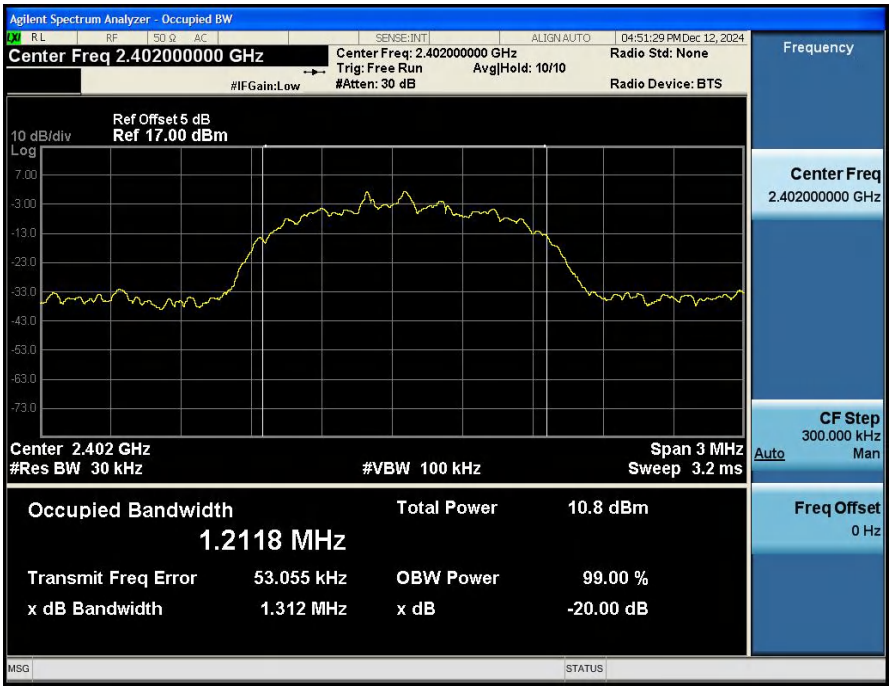
-20dB_Bandwidth_NVNT_ANT1_2-DH5_2441_00



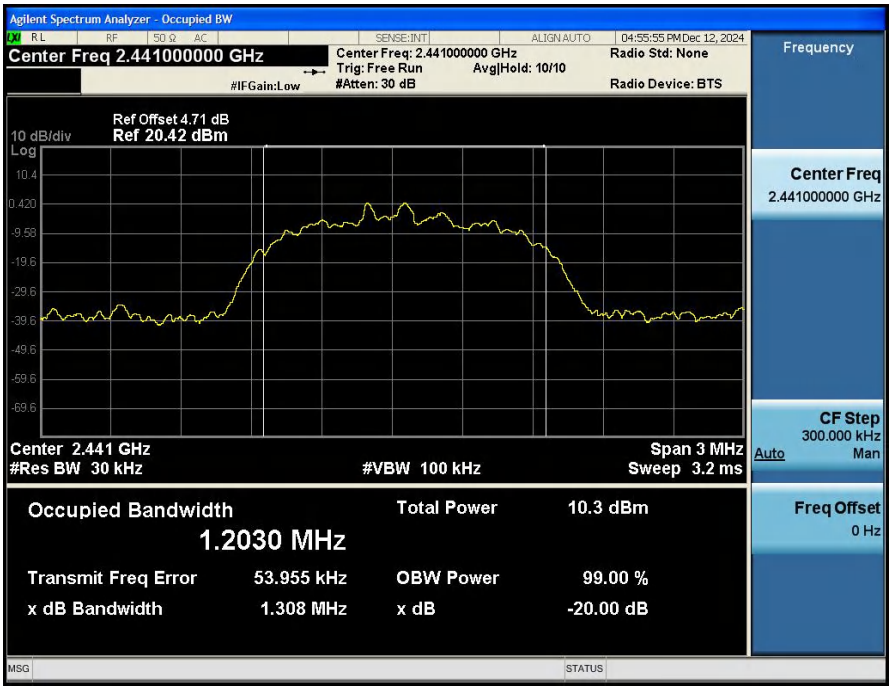
-20dB_Bandwidth_NVNT_ANT1_2-DH5_2480_00



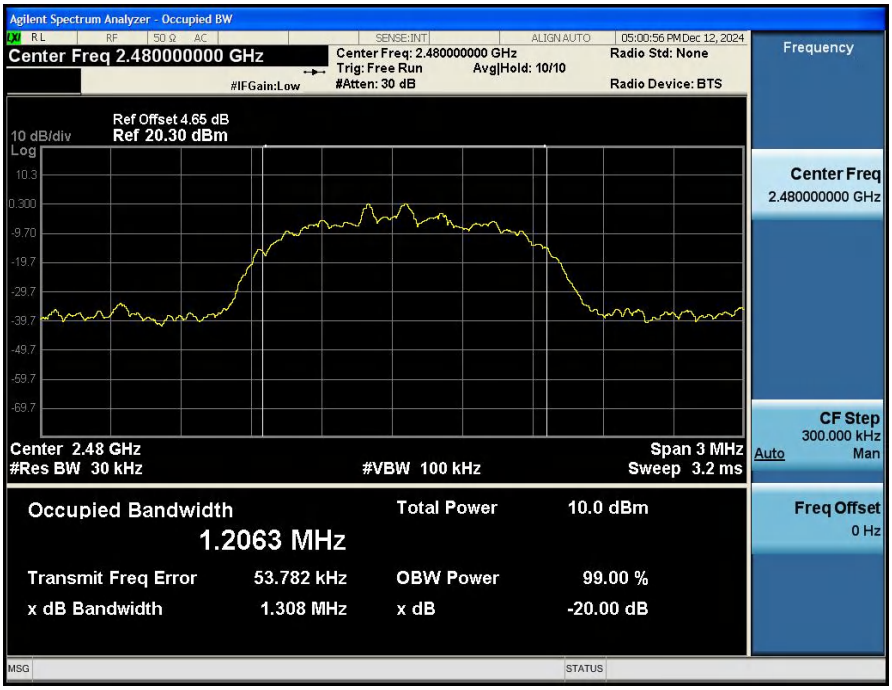
-20dB_Bandwidth_NVNT_ANT1_3-DH5_2402_00



-20dB_Bandwidth_NVNT_ANT1_3-DH5_2441_00



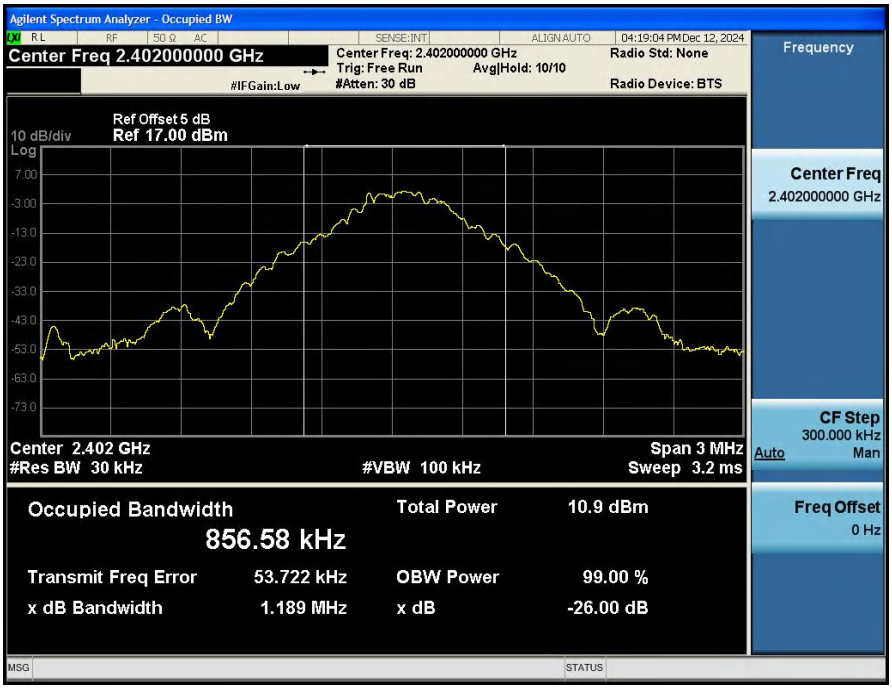
-20dB_Bandwidth_NVNT_ANT1_3-DH5_2480_00



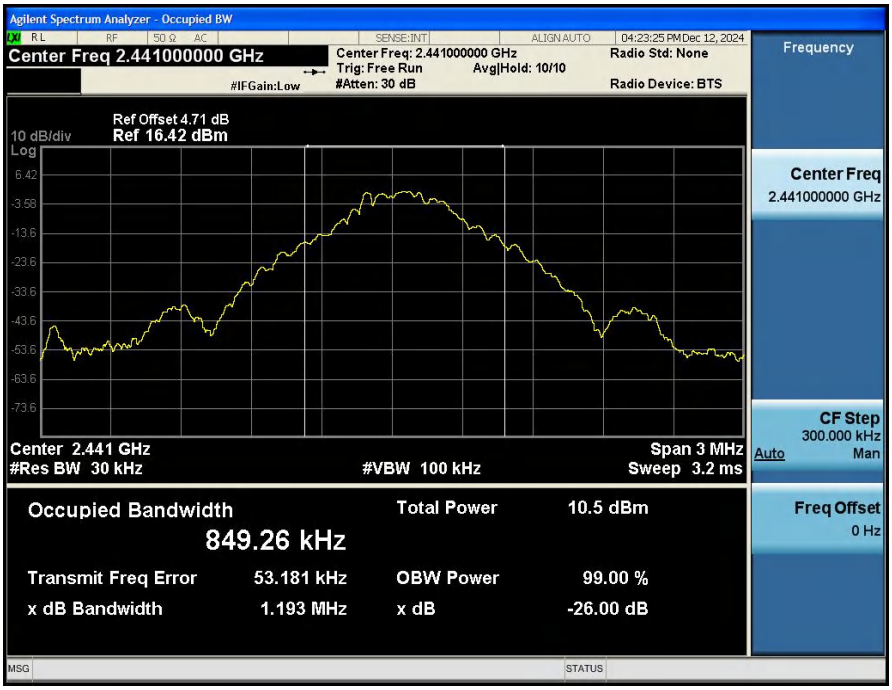
Appendix C: 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%BW(MHz)
NVNT	ANT1	1-DH5	2402.00	0.857
NVNT	ANT1	1-DH5	2441.00	0.849
NVNT	ANT1	1-DH5	2480.00	0.851
NVNT	ANT1	2-DH5	2402.00	1.191
NVNT	ANT1	2-DH5	2441.00	1.185
NVNT	ANT1	2-DH5	2480.00	1.189
NVNT	ANT1	3-DH5	2402.00	1.211
NVNT	ANT1	3-DH5	2441.00	1.202
NVNT	ANT1	3-DH5	2480.00	1.207

99%_Occupied_Bandwidth_NVNT_ANT1_1-DH5_2402_00

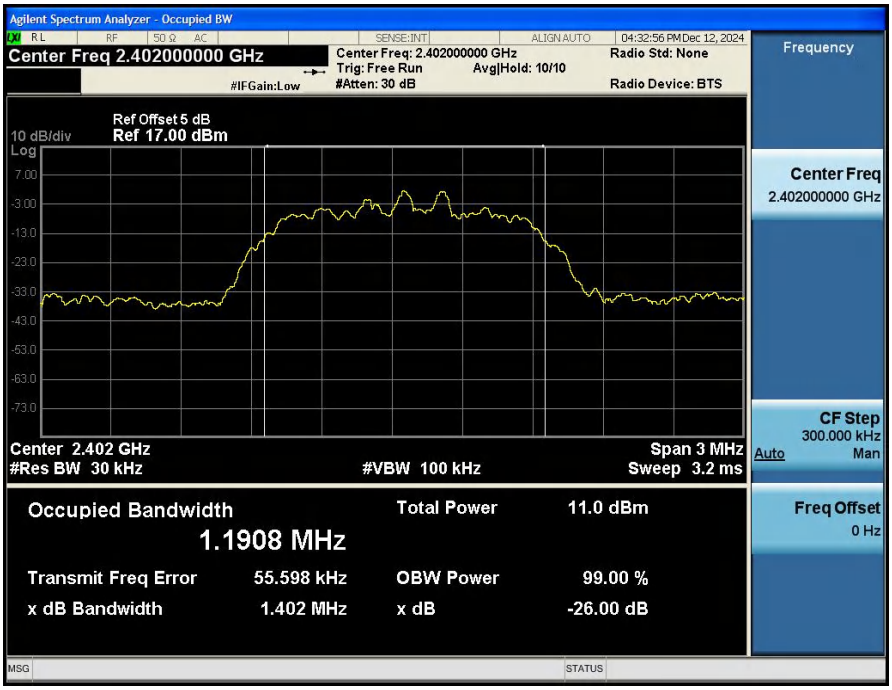


99%_Occupied_Bandwidth_NVNT_ANT1_1-DH5_2441_00

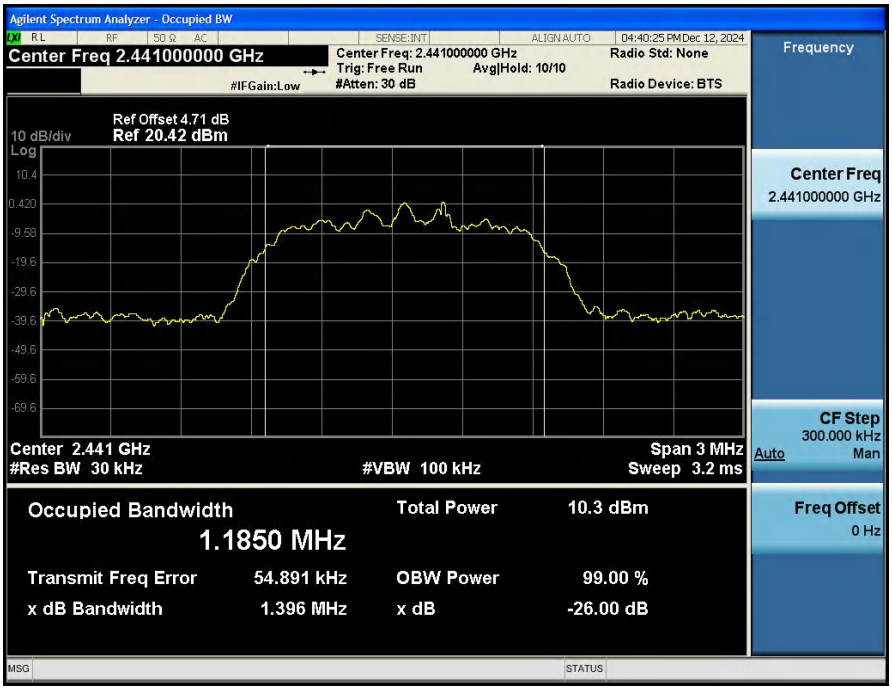


99%_Occupied_Bandwidth_NVNT_ANT1_1-DH5_2480_00

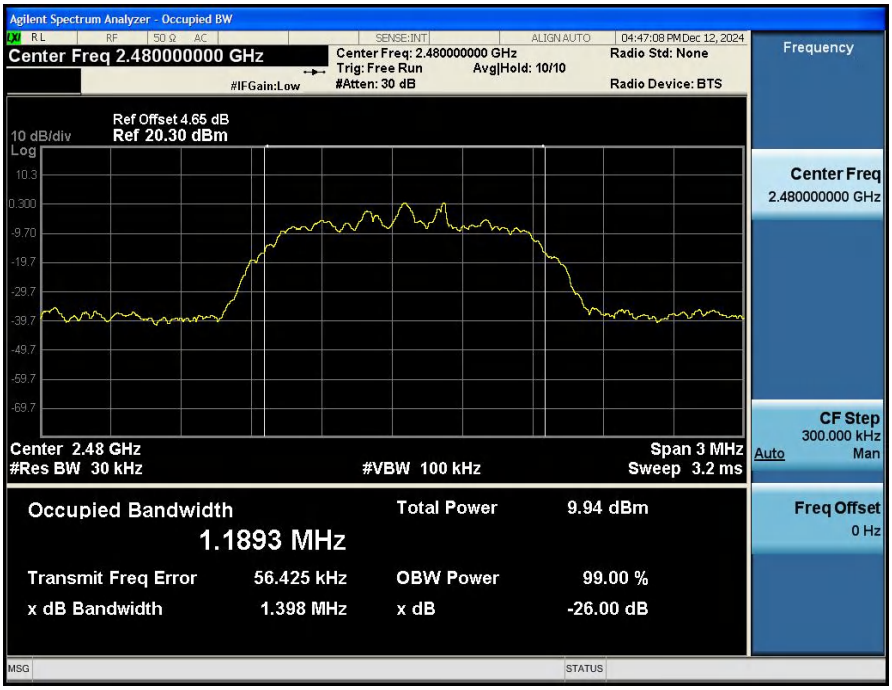
99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2402_00



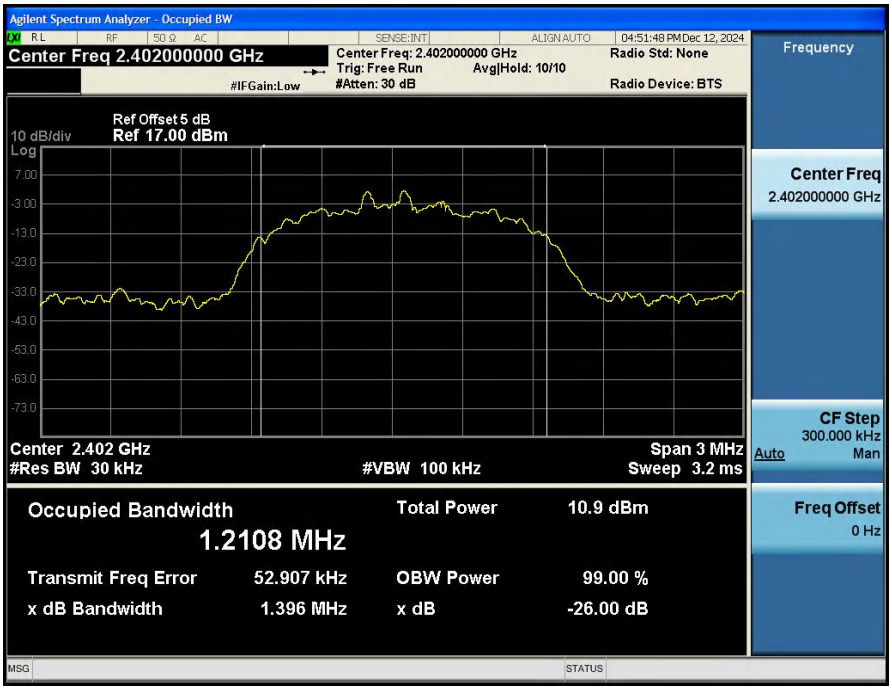
99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2441_00



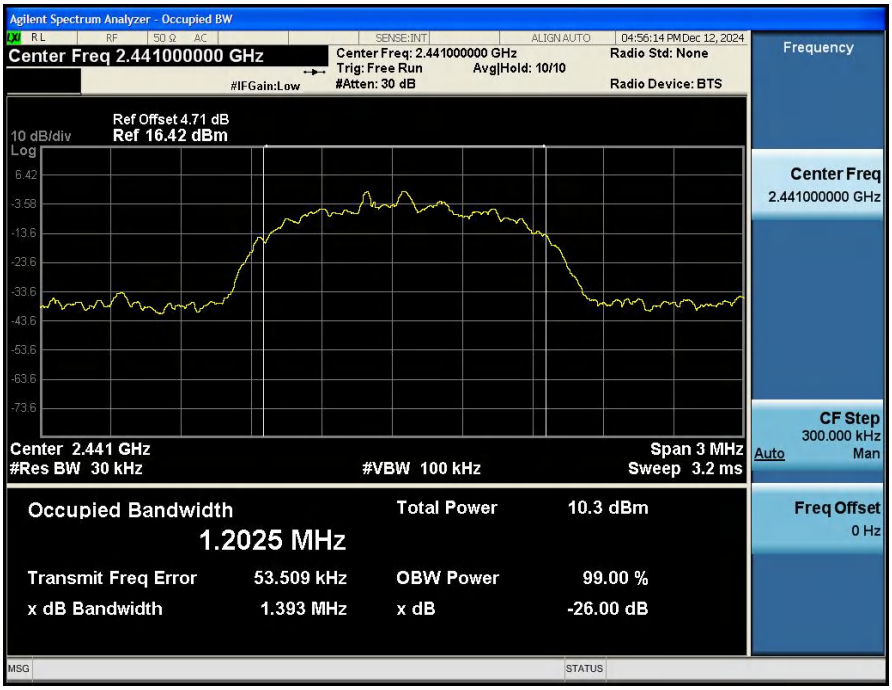
99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2480_00



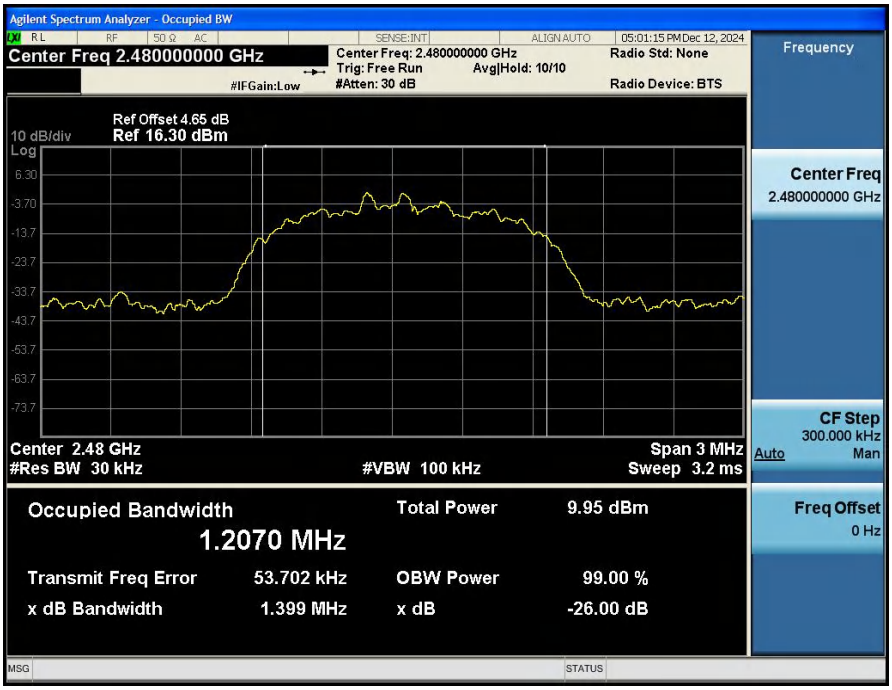
99%_Occupied_Bandwidth_NVNT_ANT1_3-DH5_2402_00



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	3.80	2.40	125	Pass
NVNT	ANT1	1-DH5	2441.00	2.97	1.98	125	Pass
NVNT	ANT1	1-DH5	2480.00	3.00	2.00	125	Pass
NVNT	ANT1	2-DH5	2402.00	4.37	2.73	125	Pass
NVNT	ANT1	2-DH5	2441.00	3.53	2.25	125	Pass
NVNT	ANT1	2-DH5	2480.00	3.60	2.29	125	Pass
NVNT	ANT1	3-DH5	2402.00	**4.54**	2.84	125	Pass
NVNT	ANT1	3-DH5	2441.00	3.71	2.35	125	Pass
NVNT	ANT1	3-DH5	2480.00	3.79	2.40	125	Pass

Peak_Output_Power_NVNT_ANT1_1-DH5_2402_00

Peak_Output_Power_NVNT_ANT1_1-DH5_2441_00

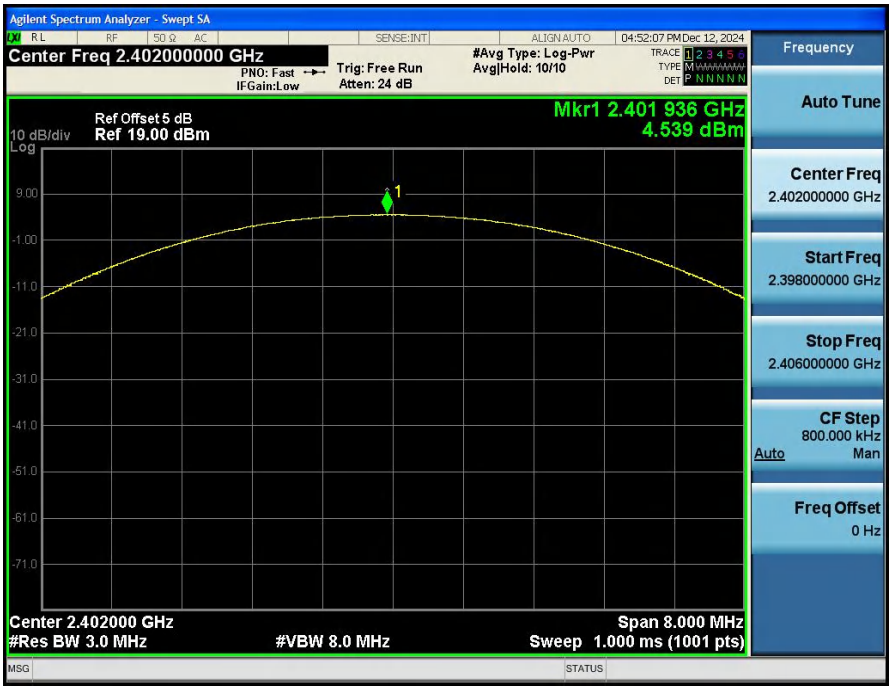
Peak_Output_Power_NVNT_ANT1_1-DH5_2480_00

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



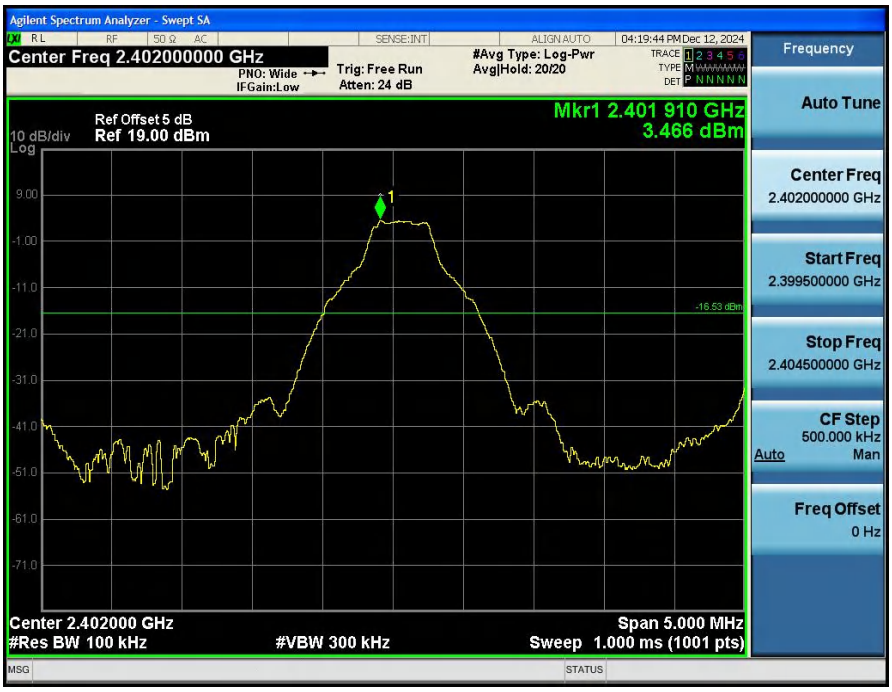
Peak_Output_Power_NVNT_ANT1_3-DH5_2441_00

Peak_Output_Power_NVNT_ANT1_3-DH5_2480_00

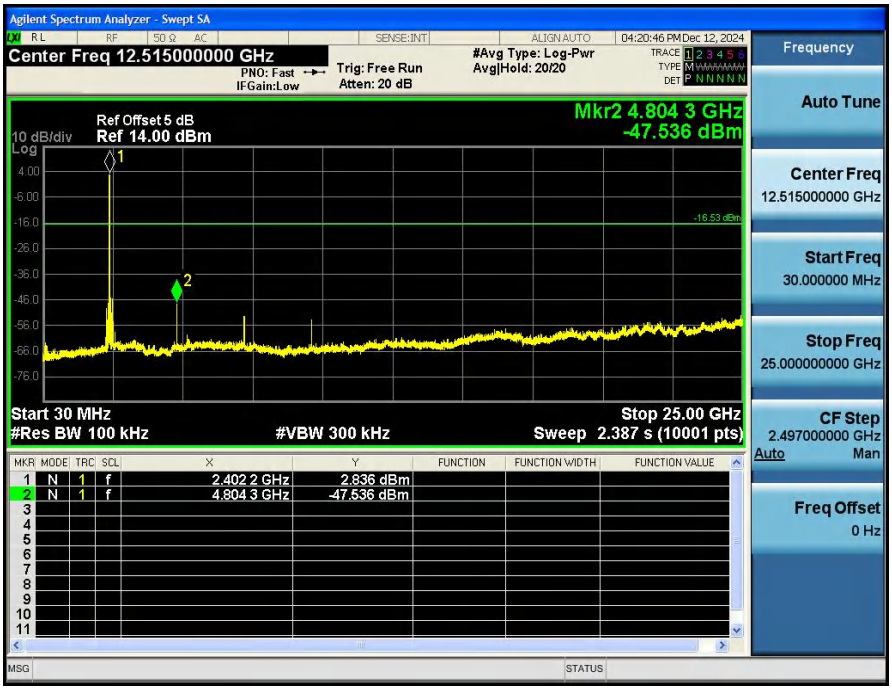
Appendix E: Spurious Emissions

Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1-DH5	2402.00	3.466	-47.536	-16.534	Pass
NVNT	ANT1	1-DH5	2441.00	2.682	-47.811	-17.318	Pass
NVNT	ANT1	1-DH5	2480.00	2.874	-45.740	-17.126	Pass
NVNT	ANT1	2-DH5	2402.00	3.691	-50.117	-16.309	Pass
NVNT	ANT1	2-DH5	2441.00	2.902	-49.197	-17.098	Pass
NVNT	ANT1	2-DH5	2480.00	2.923	-45.017	-17.077	Pass
NVNT	ANT1	3-DH5	2402.00	3.841	-48.828	-16.159	Pass
NVNT	ANT1	3-DH5	2441.00	3.023	-49.796	-16.977	Pass
NVNT	ANT1	3-DH5	2480.00	3.025	-47.361	-16.975	Pass

1_Reference_Level_NVNT_ANT1_1-DH5_2402_00

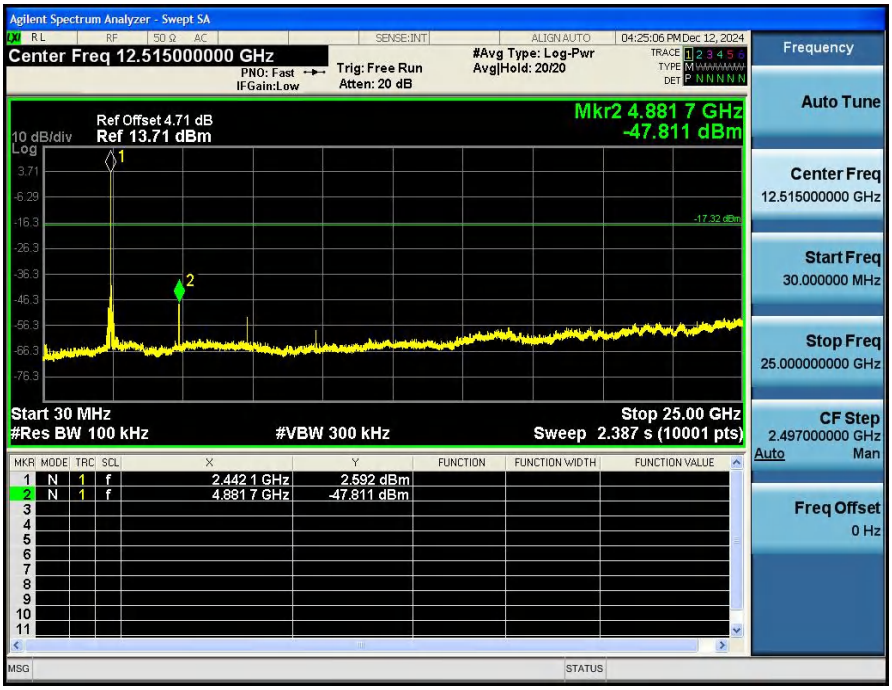


2_Spurious_Emissions_NVNT_ANT1_1-DH5_2402_00



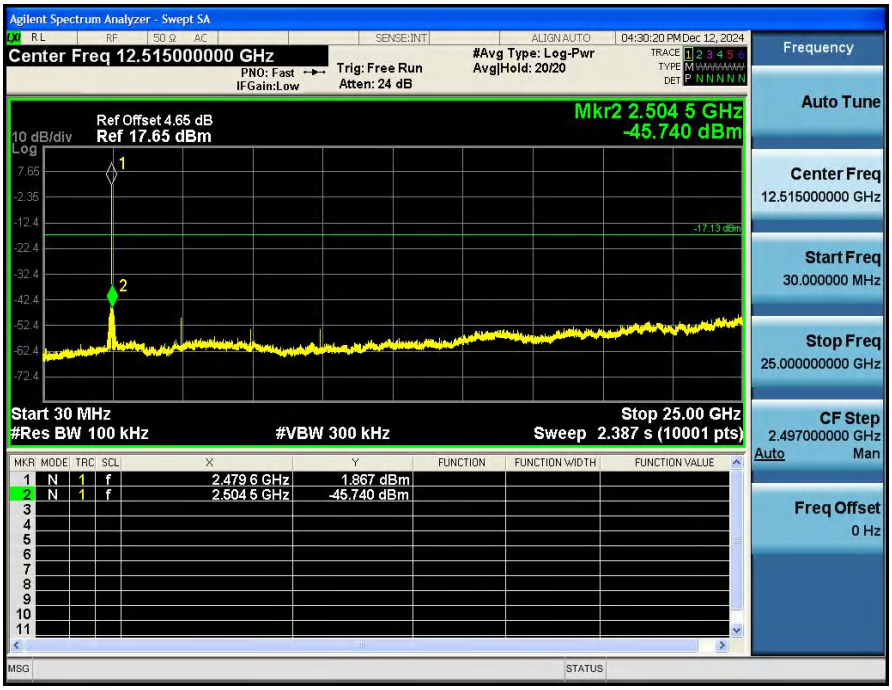
1_Reference_Level_NVNT_ANT1_1-DH5_2441_00

2_Spurious_Emissions_NVNT_ANT1_1-DH5_2441_00



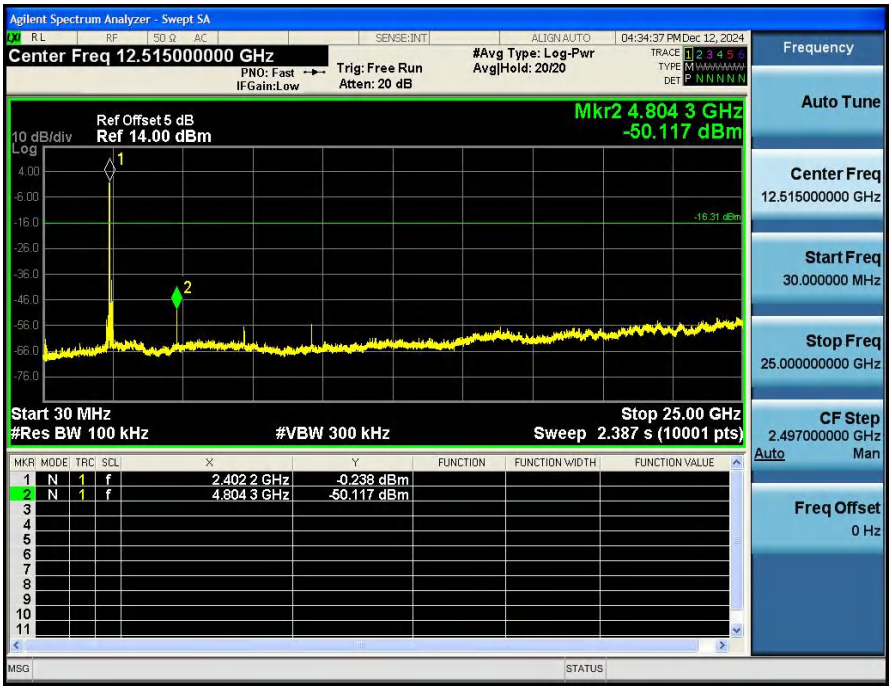
1_Reference_Level_NVNT_ANT1_1-DH5_2480_00

2_Spurious_Emissions_NVNT_ANT1_1-DH5_2480_00



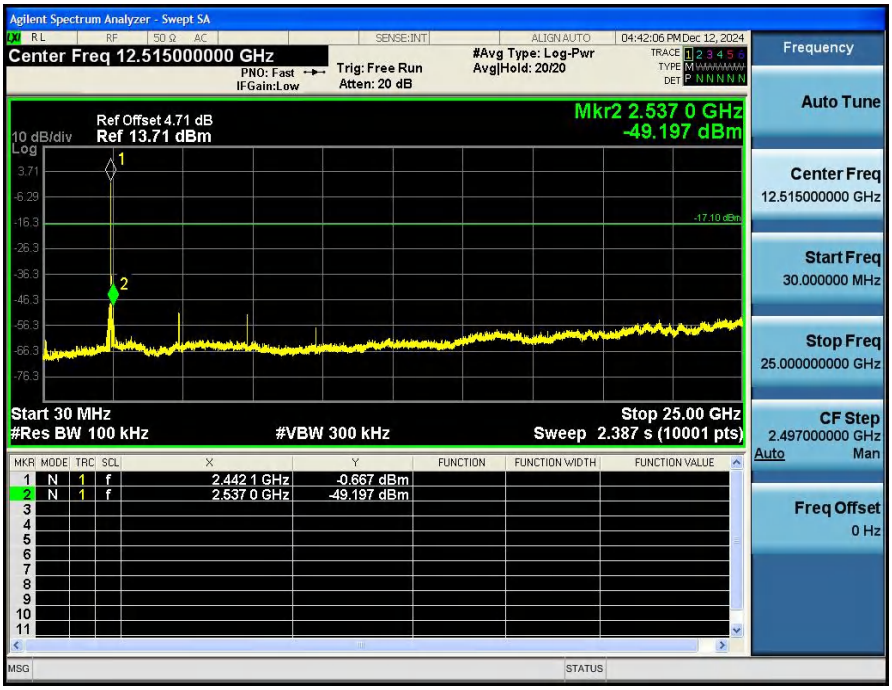
1_Reference_Level_NVNT_ANT1_2-DH5_2402_00

2_Spurious_Emissions_NVNT_ANT1_2-DH5_2402_00



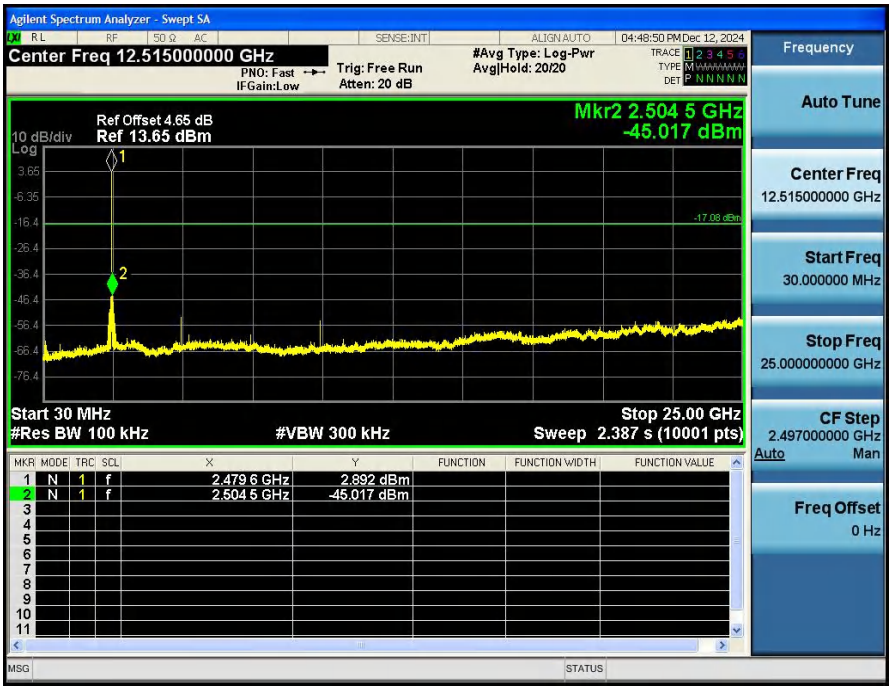
1_Reference_Level_NVNT_ANT1_2-DH5_2441_00

2_Spurious_Emissions_NVNT_ANT1_2-DH5_2441_00



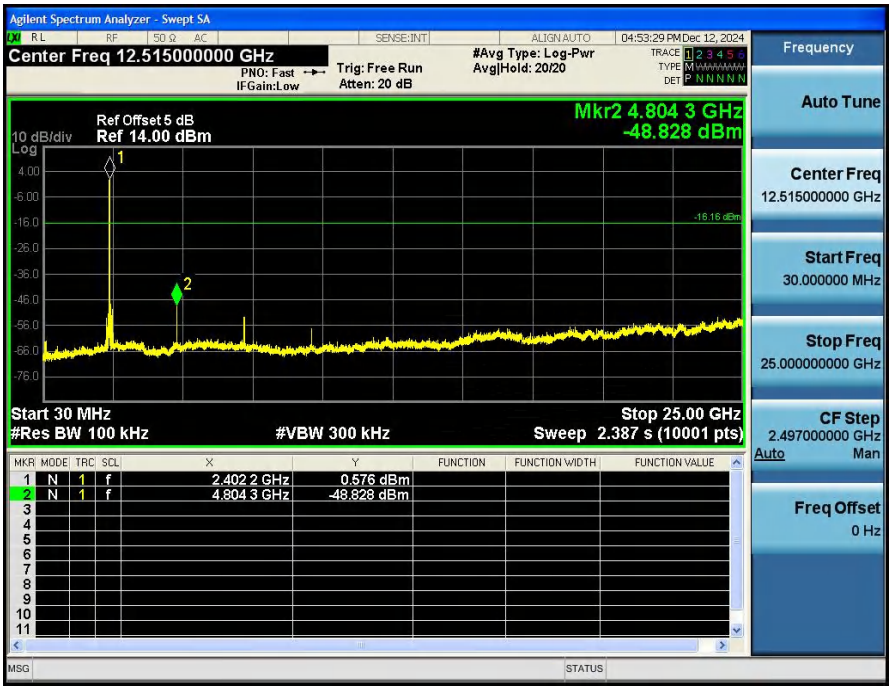
1_Reference_Level_NVNT_ANT1_2-DH5_2480_00

2_Spurious_Emissions_NVNT_ANT1_2-DH5_2480_00



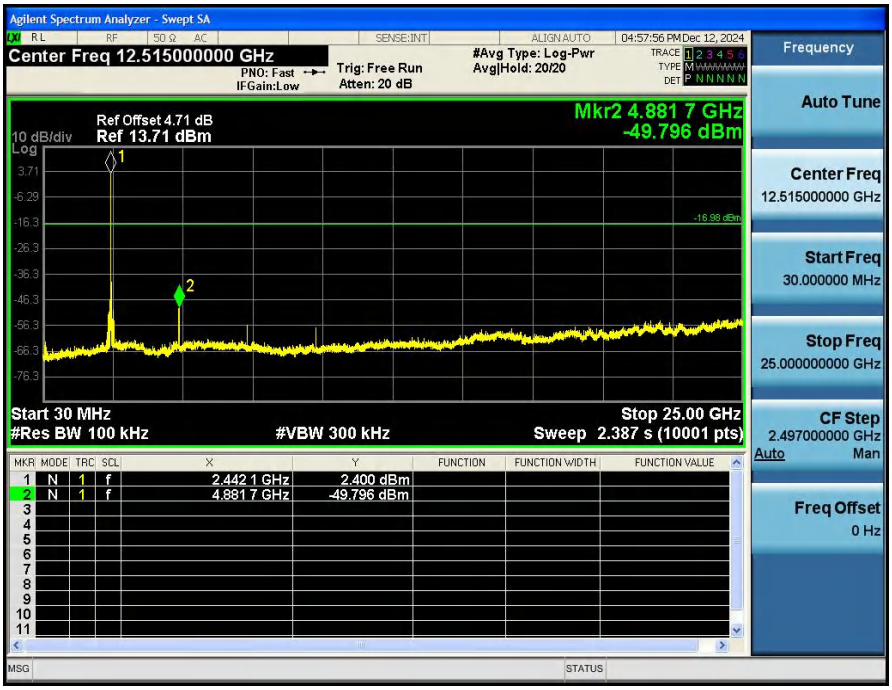
1_Reference_Level_NVNT_ANT1_3-DH5_2402_00

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