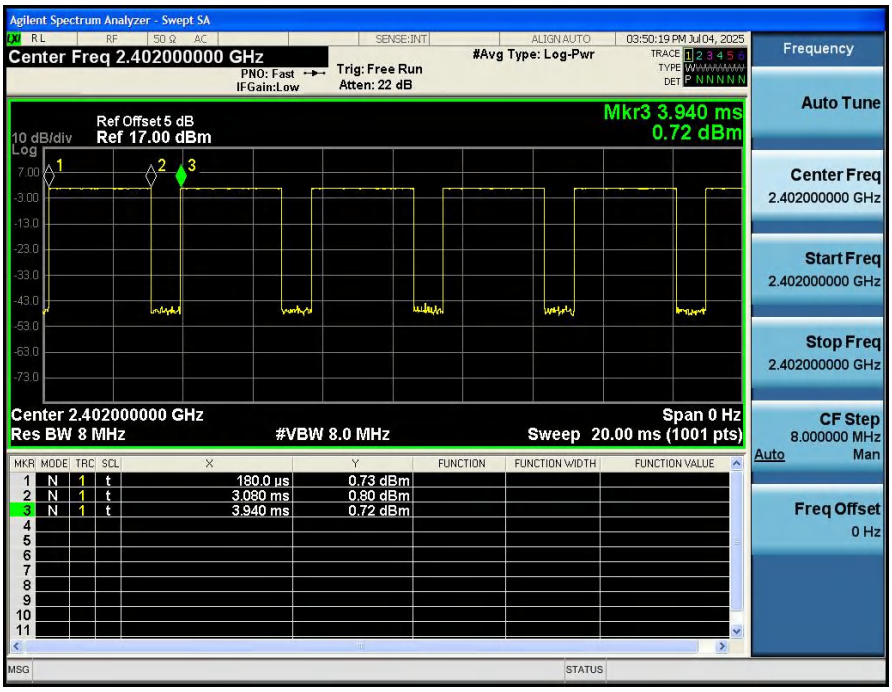
Appendix Test Data

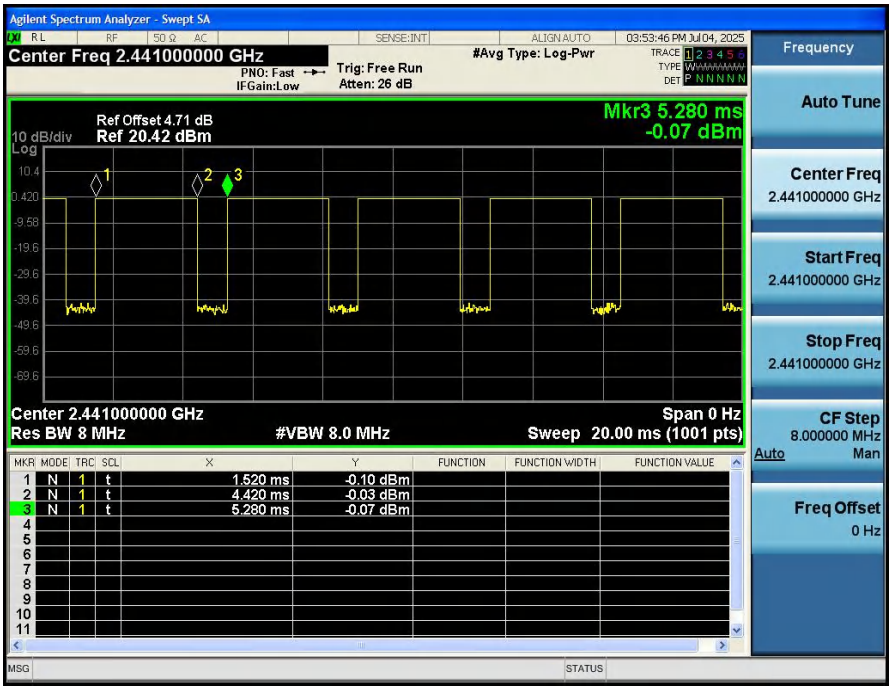
Report No.:	1812C50321412501	Test Sample No.:	1-2-2
Start Test Date:	2025.6.30	Finish Test Date:	2025.7.4
Test Engineer:	Xiang-fei Yang	Auditor:	Justin Feng
Temperature:	25.1℃	Relative Humidity:	43%
Pressure:	101kPa		

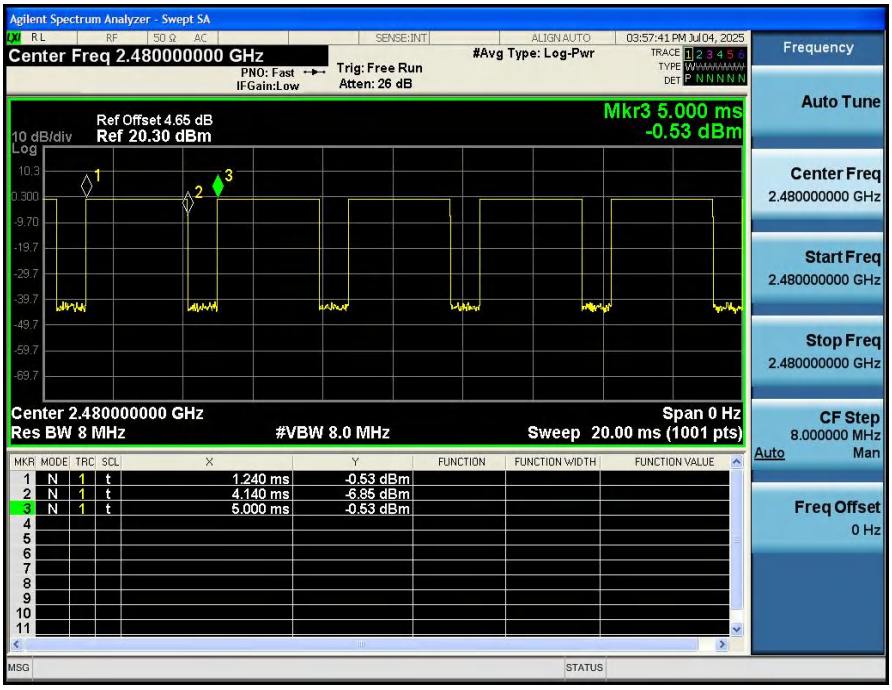
Appendix A: Duty Cycle

Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	1-DH5	2402.00	77.13	1.13
NVNT	ANT1	1-DH5	2441.00	77.66	1.10
NVNT	ANT1	1-DH5	2480.00	77.66	1.10
NVNT	ANT1	2-DH5	2402.00	77.66	1.10
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	77.13	1.13
NVNT	ANT1	3-DH5	2441.00	77.66	1.10
NVNT	ANT1	3-DH5	2480.00	78.07	1.07

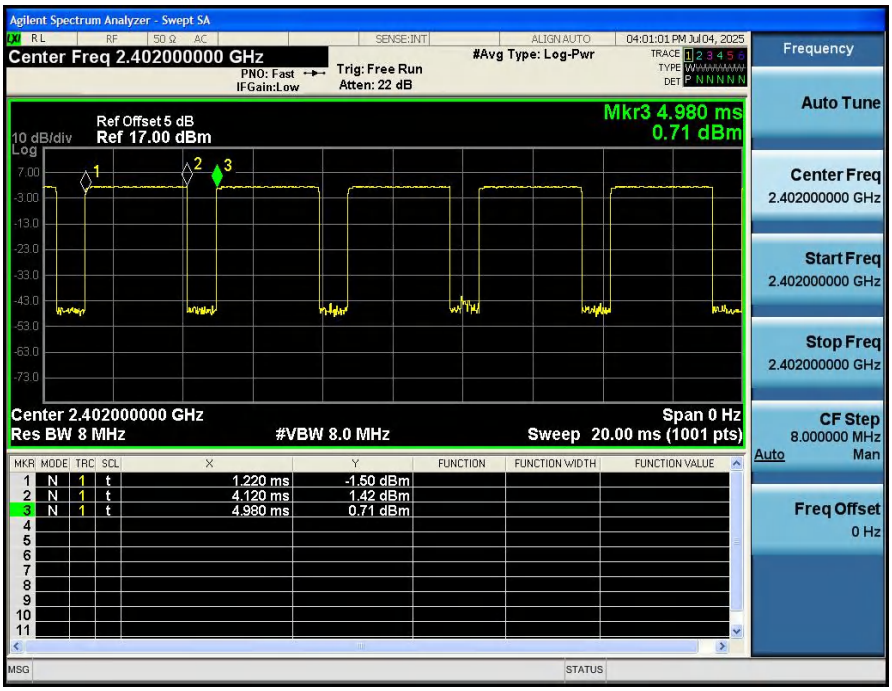
Duty_Cycle_NVNT_ANT1_1-DH5_2402



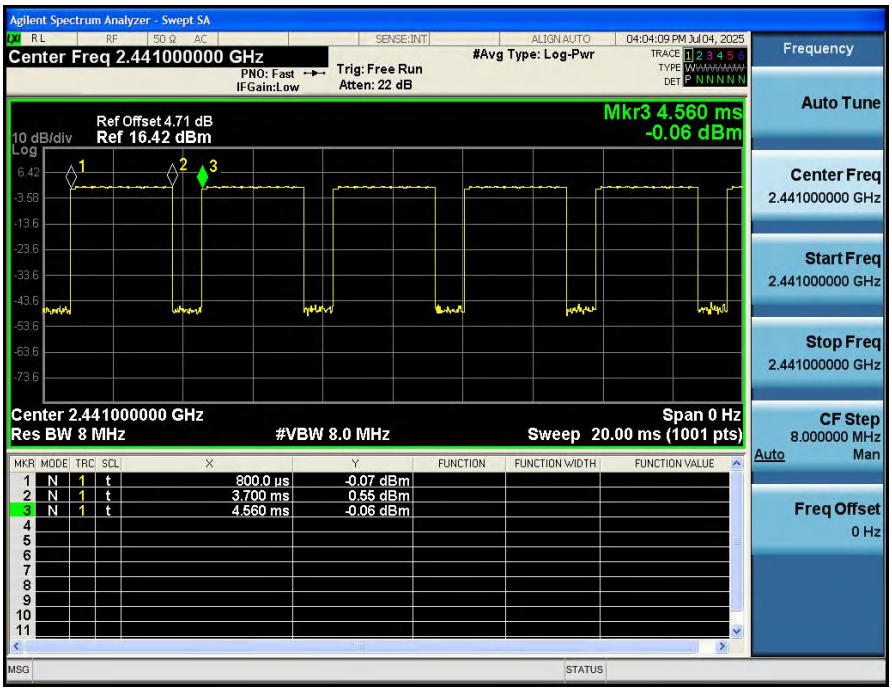
Duty_Cycle_NVNT_ANT1_1-DH5_2441


Duty_Cycle_NVNT_ANT1_1-DH5_2480


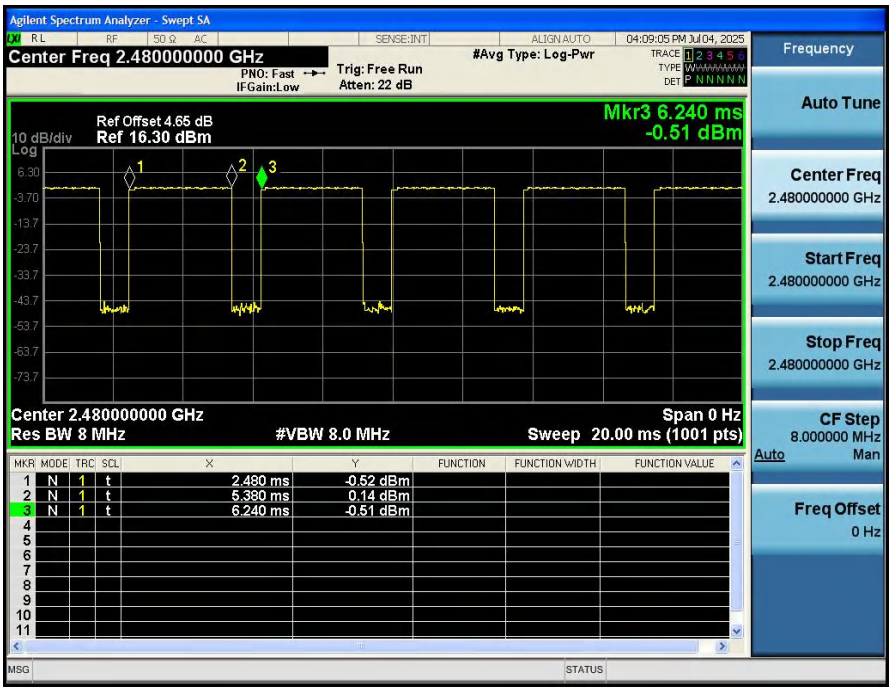
Duty_Cycle_NVNT_ANT1_2-DH5_2402



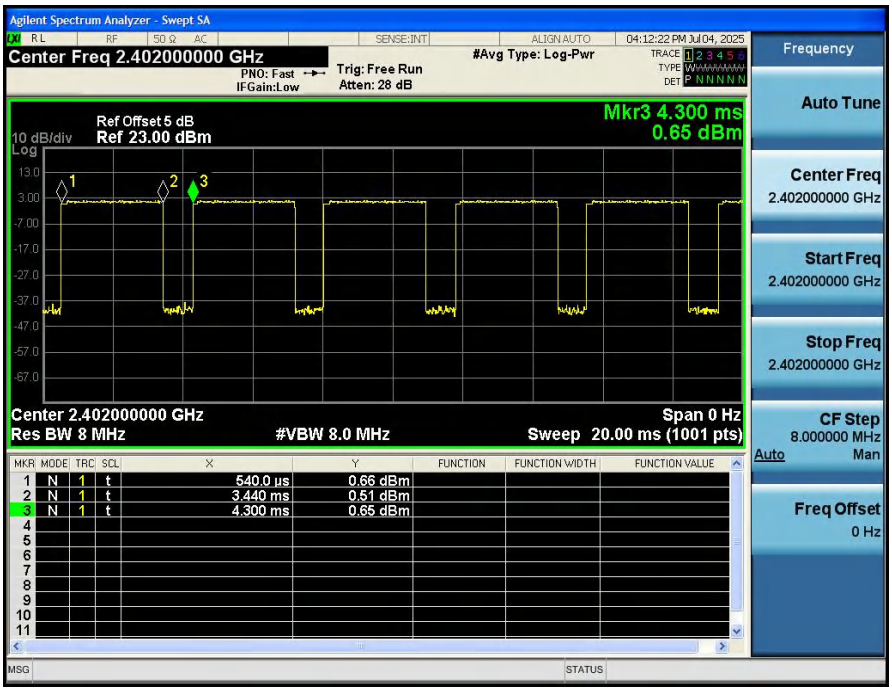
Duty_Cycle_NVNT_ANT1_2-DH5_2441



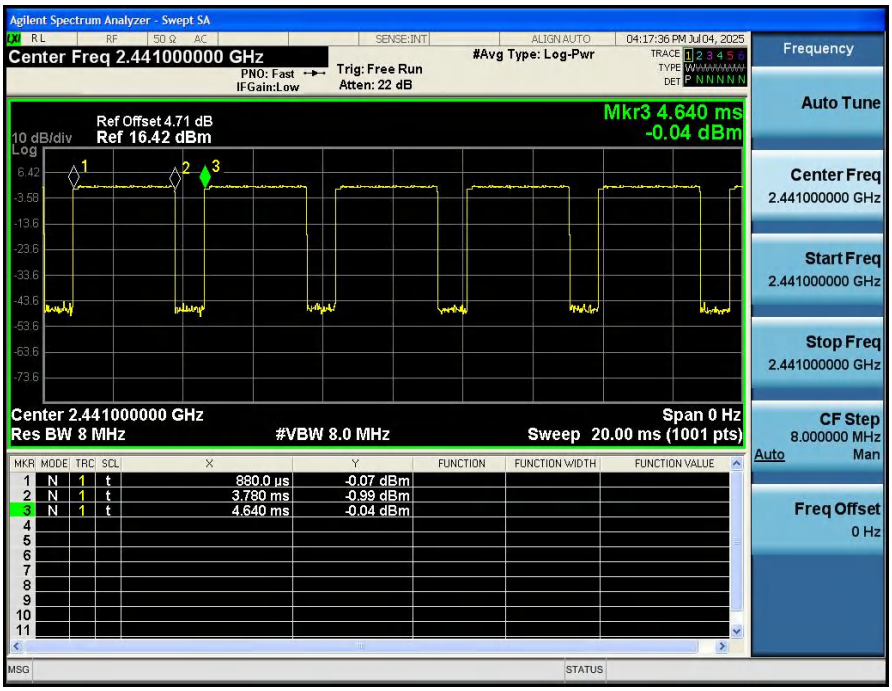
Duty_Cycle_NVNT_ANT1_2-DH5_2480



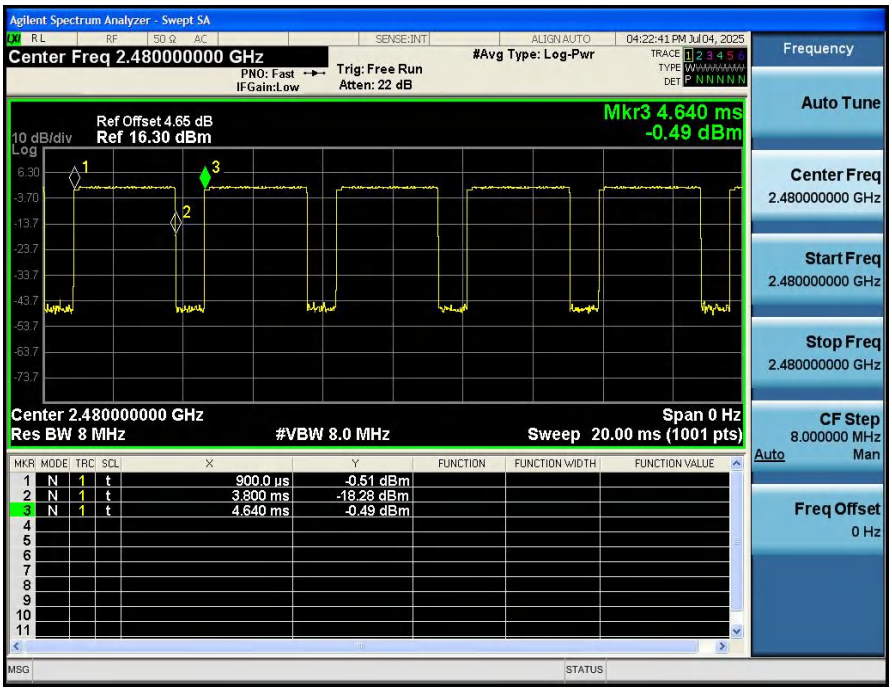
Duty_Cycle_NVNT_ANT1_3-DH5_2402



Duty_Cycle_NVNT_ANT1_3-DH5_2441



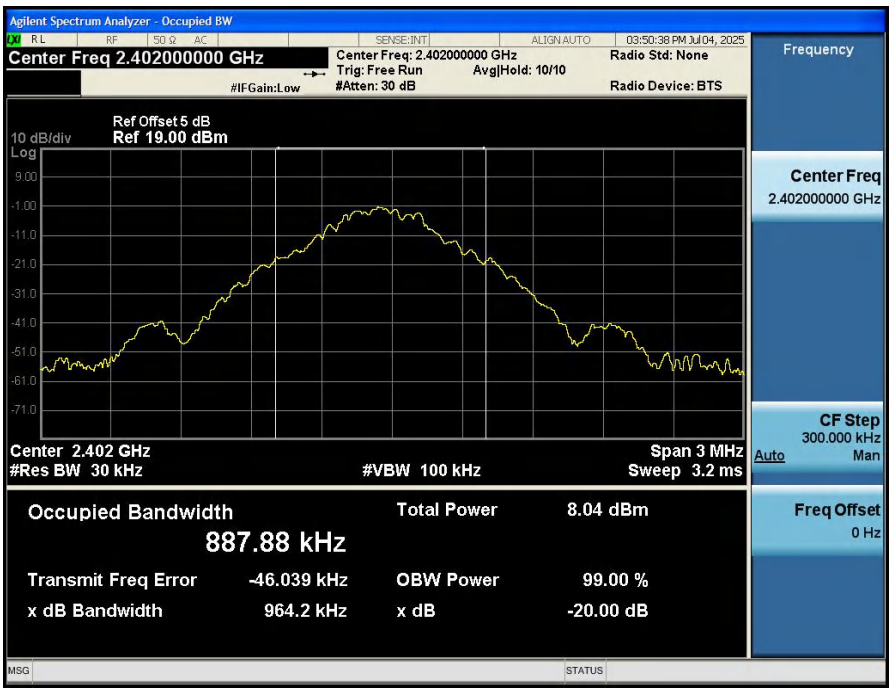
Duty_Cycle_NVNT_ANT1_3-DH5_2480



Appendix B: -20dB Bandwidth

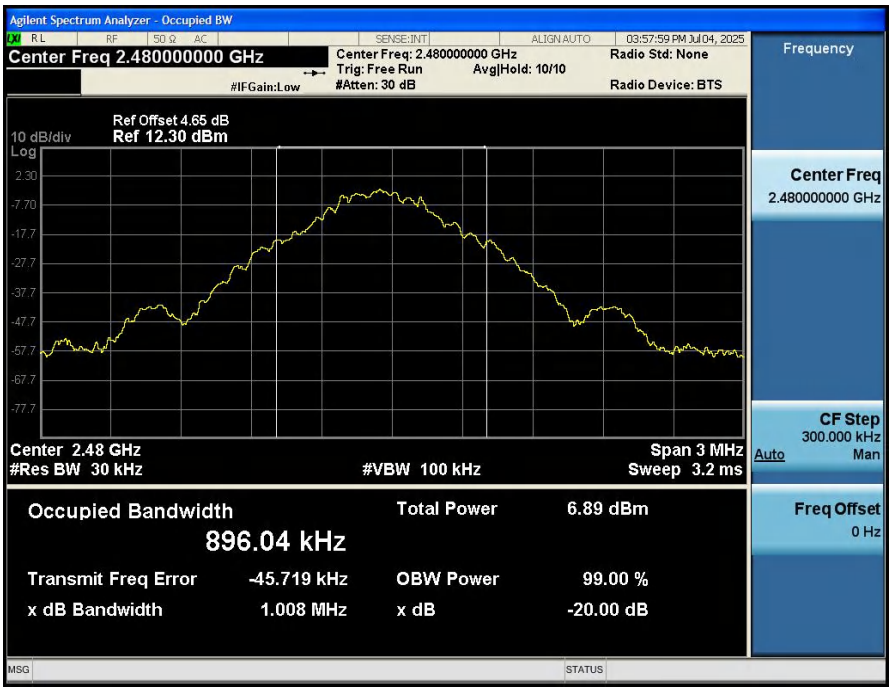
Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS
NVNT	ANT1	1-DH5	2402.00	0.964	No
NVNT	ANT1	1-DH5	2441.00	1.009	Yes
NVNT	ANT1	1-DH5	2480.00	1.008	Yes
NVNT	ANT1	2-DH5	2402.00	1.285	Yes
NVNT	ANT1	2-DH5	2441.00	1.288	Yes
NVNT	ANT1	2-DH5	2480.00	1.286	Yes
NVNT	ANT1	3-DH5	2402.00	1.293	Yes
NVNT	ANT1	3-DH5	2441.00	1.296	Yes
NVNT	ANT1	3-DH5	2480.00	1.300	Yes

-20dB_Bandwidth_NVNT_ANT1_1-DH5_2402_00

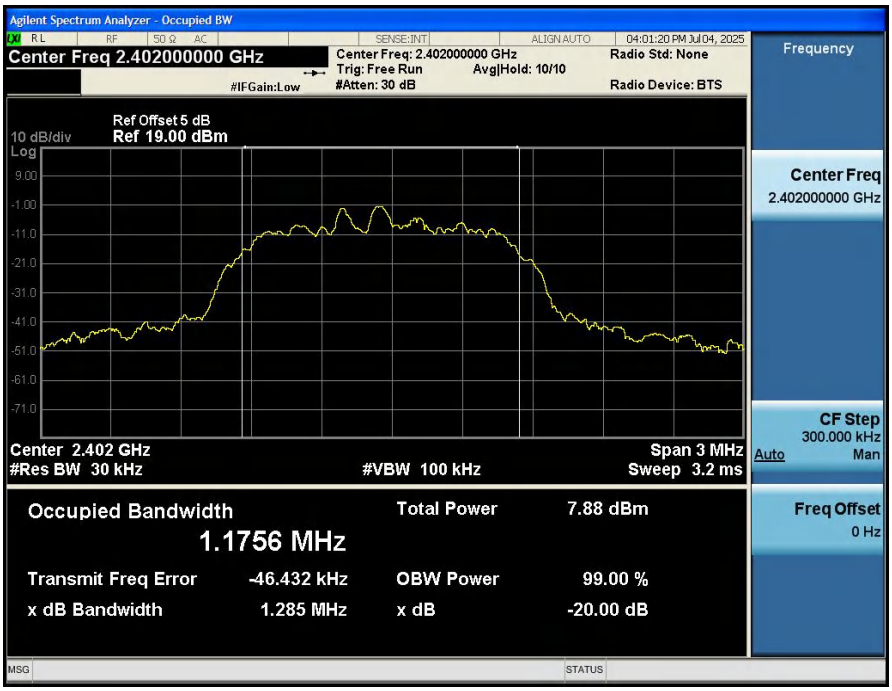


-20dB_Bandwidth_NVNT_ANT1_1-DH5_2441_00

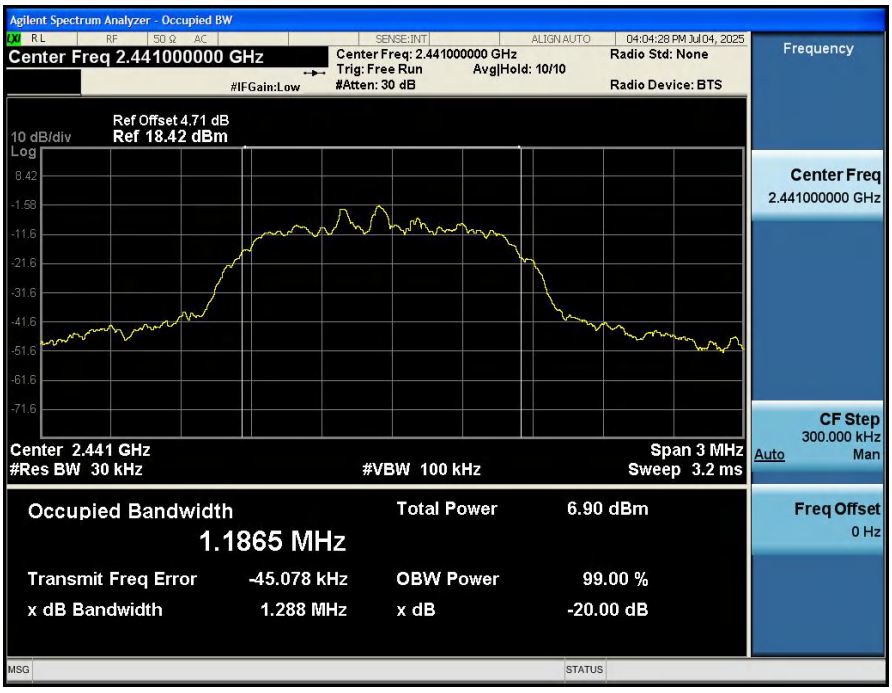
-20dB_Bandwidth_NVNT_ANT1_1-DH5_2480_00



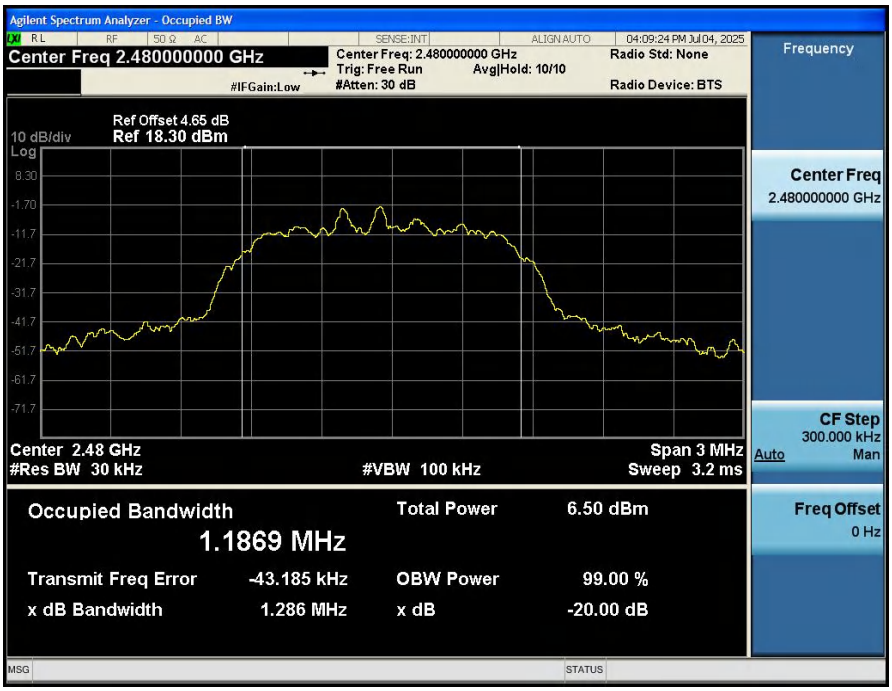
-20dB_Bandwidth_NVNT_ANT1_2-DH5_2402_00



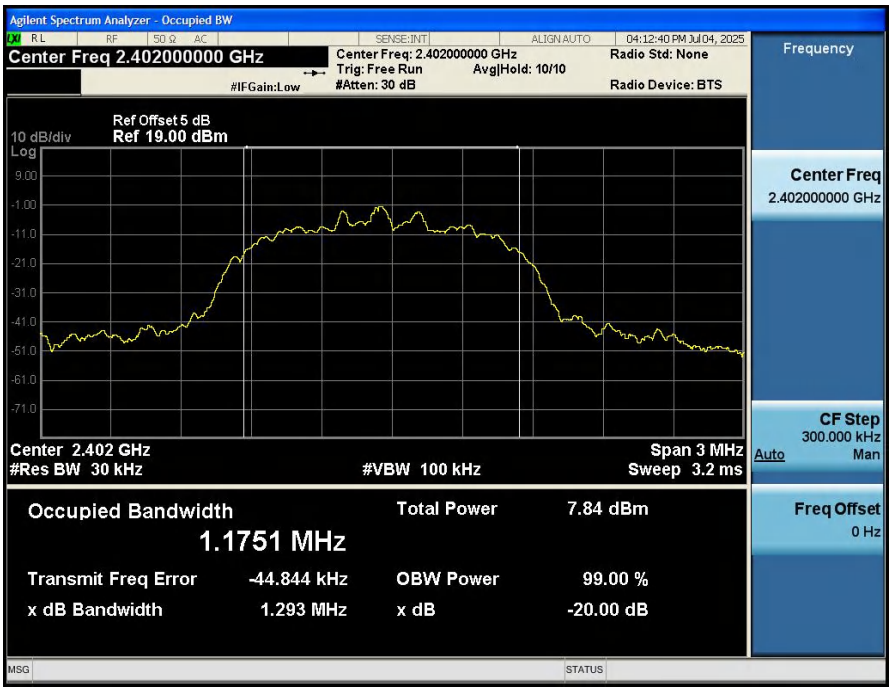
-20dB_Bandwidth_NVNT_ANT1_2-DH5_2441_00



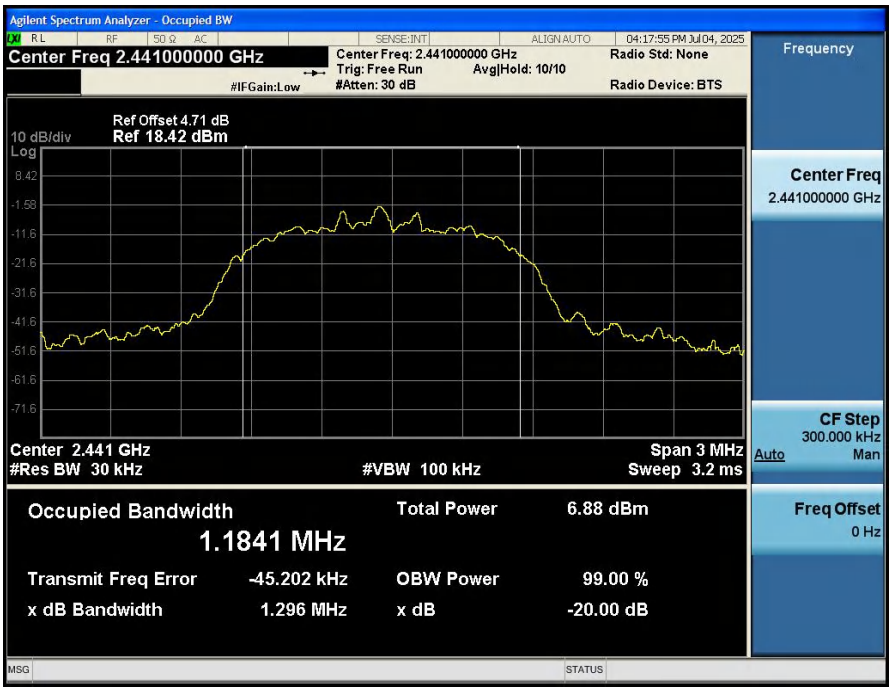
-20dB_Bandwidth_NVNT_ANT1_2-DH5_2480_00



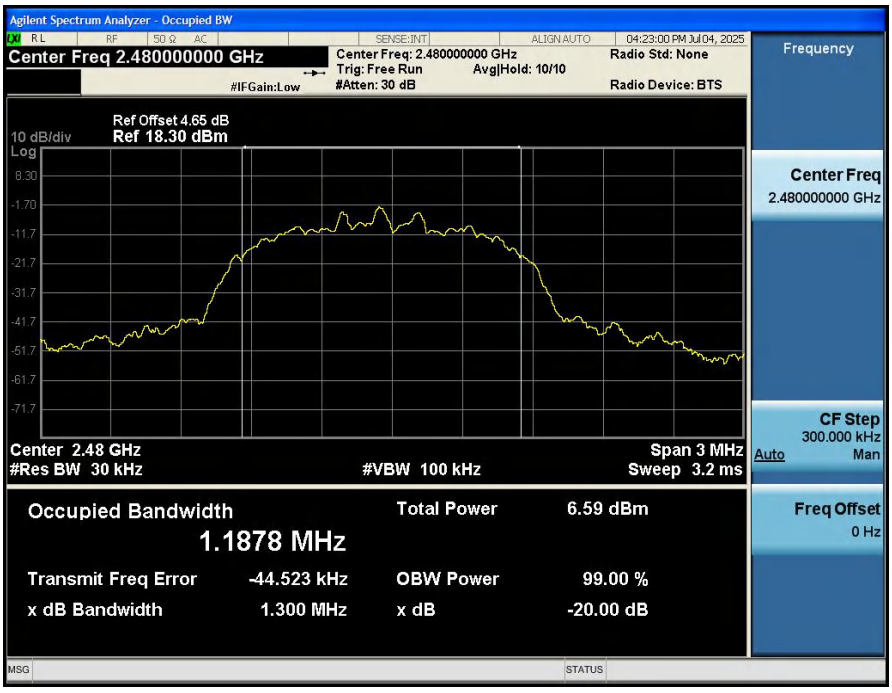
-20dB_Bandwidth_NVNT_ANT1_3-DH5_2402_00



-20dB_Bandwidth_NVNT_ANT1_3-DH5_2441_00



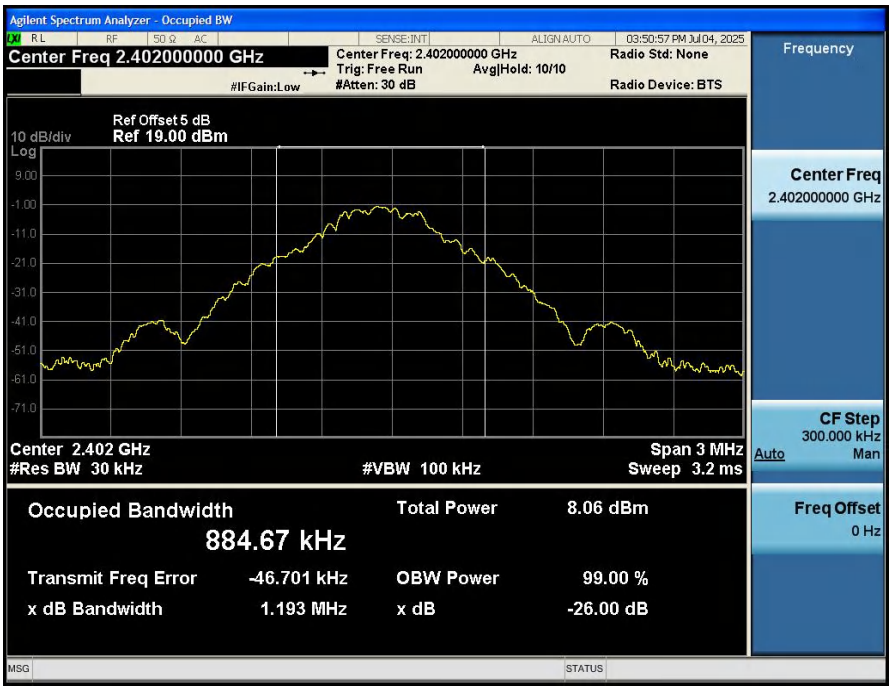
-20dB_Bandwidth_NVNT_ANT1_3-DH5_2480_00



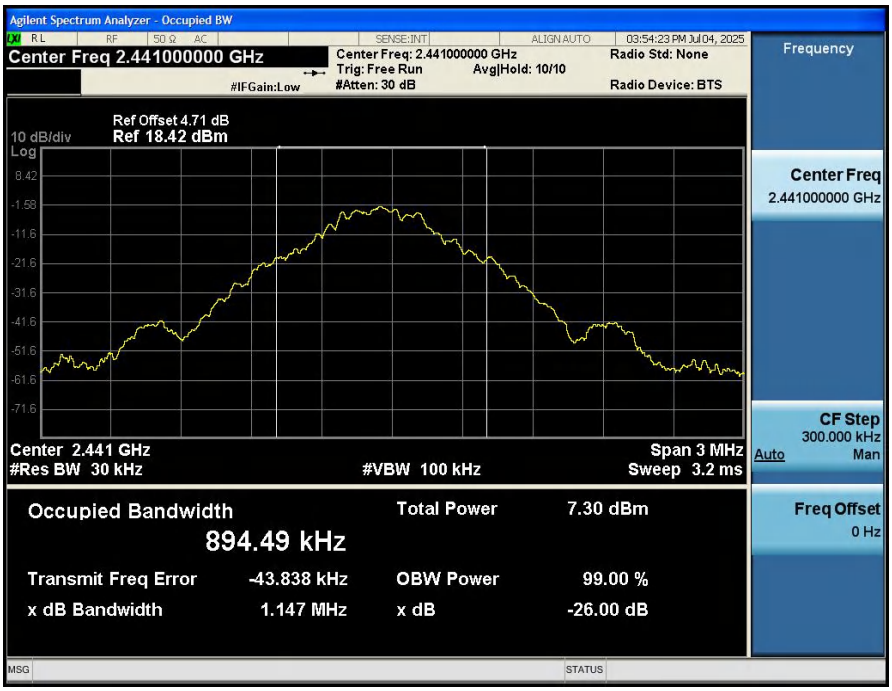
Appendix C: 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%BW(MHz)
NVNT	ANT1	1-DH5	2402.00	0.885
NVNT	ANT1	1-DH5	2441.00	0.894
NVNT	ANT1	1-DH5	2480.00	0.892
NVNT	ANT1	2-DH5	2402.00	1.183
NVNT	ANT1	2-DH5	2441.00	1.185
NVNT	ANT1	2-DH5	2480.00	1.187
NVNT	ANT1	3-DH5	2402.00	1.177
NVNT	ANT1	3-DH5	2441.00	1.180
NVNT	ANT1	3-DH5	2480.00	1.190

99%_Occupied_Bandwidth_NVNT_ANT1_1-DH5_2402_00

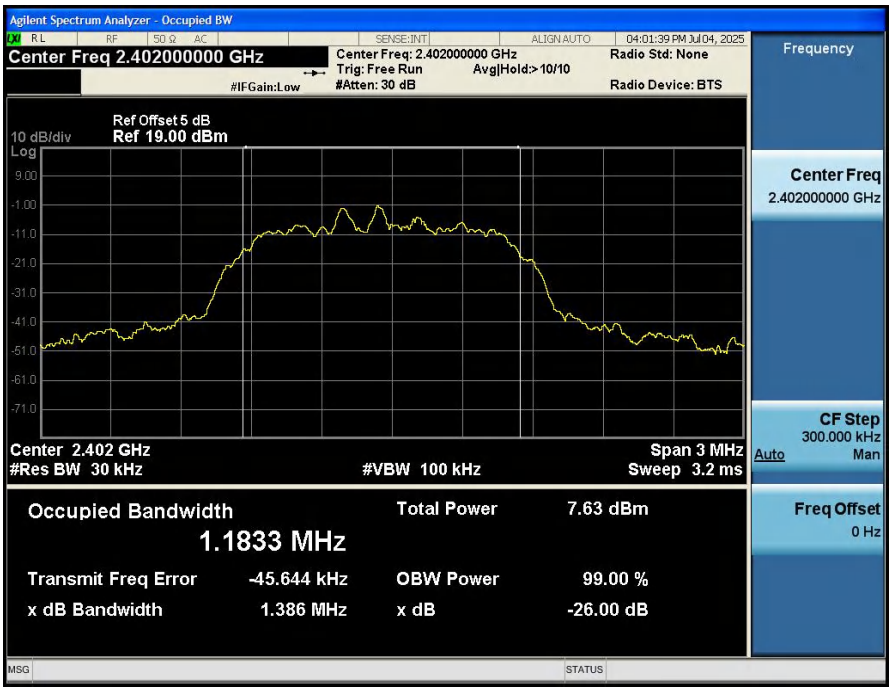


99%_Occupied_Bandwidth_NVNT_ANT1_1-DH5_2441_00

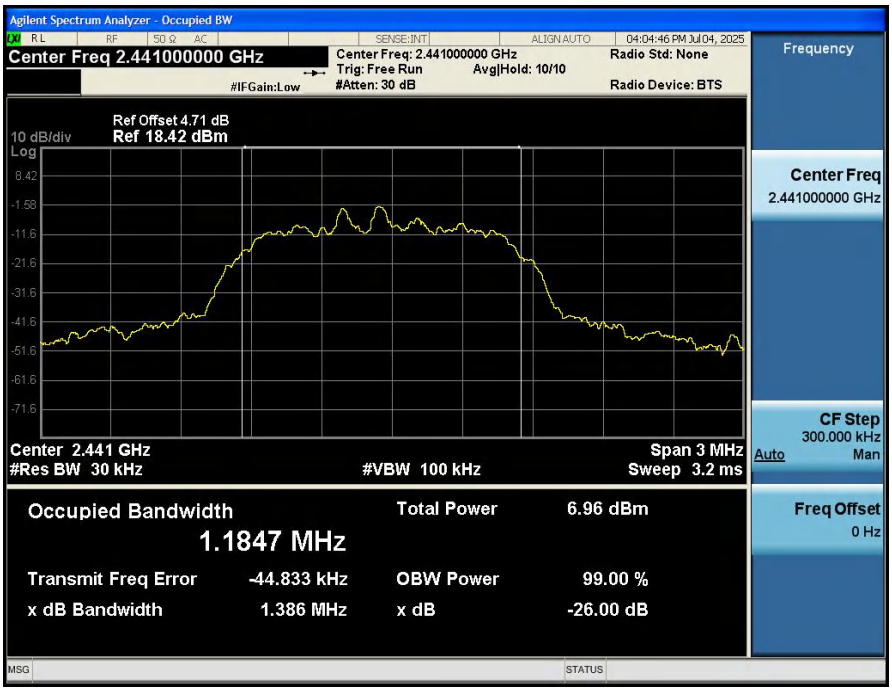


99%_Occupied_Bandwidth_NVNT_ANT1_1-DH5_2480_00

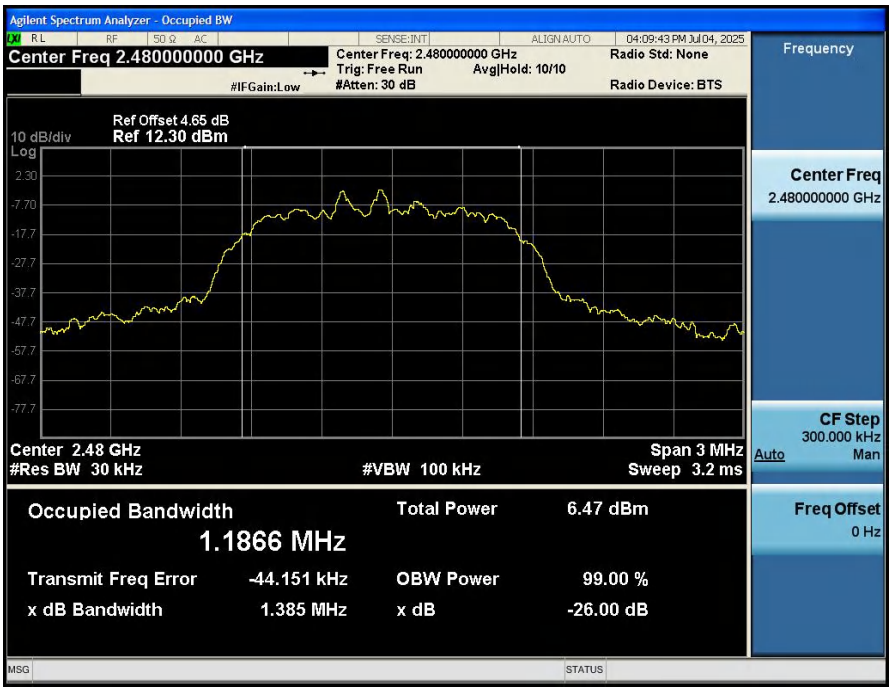
99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2402_00



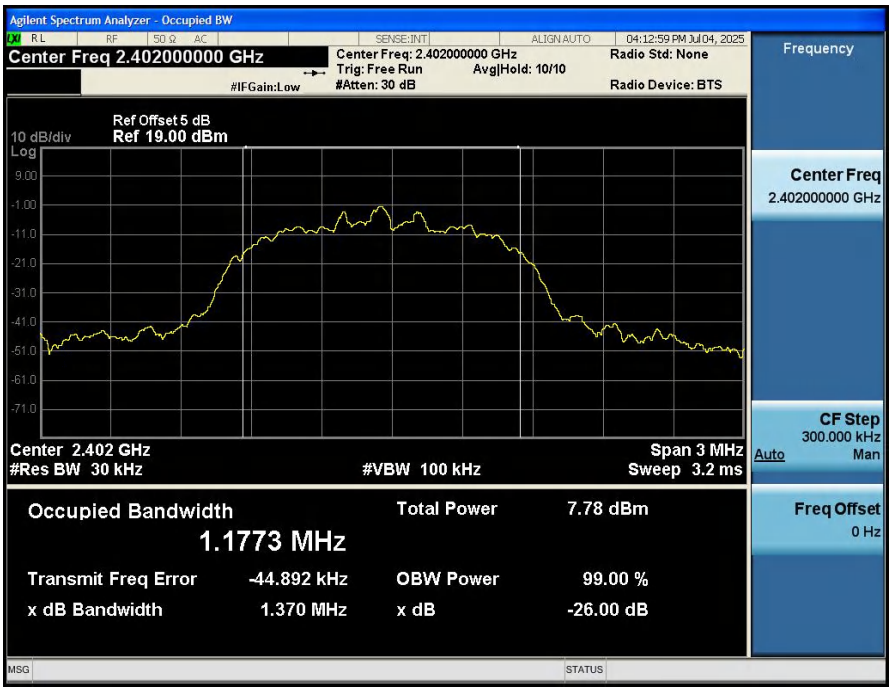
99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2441_00



99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2480_00

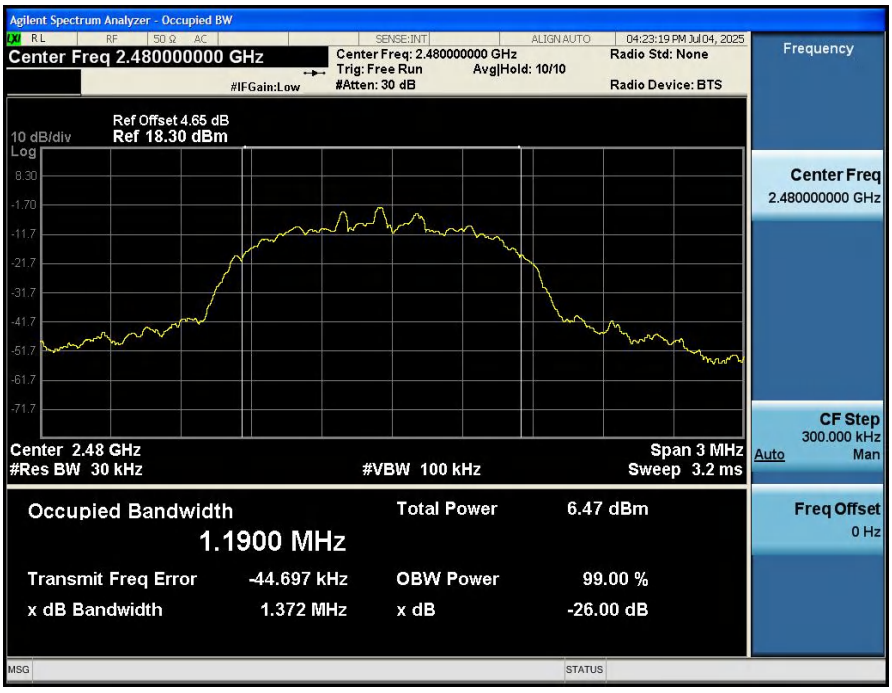


99%_Occupied_Bandwidth_NVNT_ANT1_3-DH5_2402_00



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	0.74	1.18	125	Pass
NVNT	ANT1	1-DH5	2441.00	0.01	1.00	125	Pass
NVNT	ANT1	1-DH5	2480.00	-0.52	0.89	125	Pass
NVNT	ANT1	2-DH5	2402.00	1.59	1.44	125	Pass
NVNT	ANT1	2-DH5	2441.00	0.86	1.22	125	Pass
NVNT	ANT1	2-DH5	2480.00	0.43	1.10	125	Pass
NVNT	ANT1	3-DH5	2402.00	**1.99**	1.58	125	Pass
NVNT	ANT1	3-DH5	2441.00	1.28	1.34	125	Pass
NVNT	ANT1	3-DH5	2480.00	0.85	1.22	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

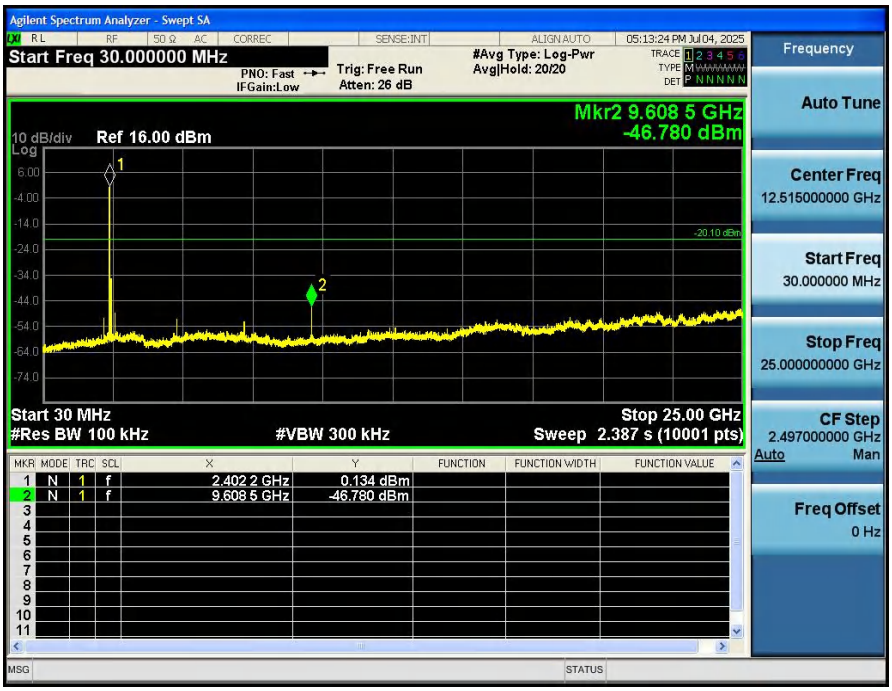
Appendix E: Spurious Emissions

Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1-DH5	2402.00	-0.097	-46.780	-20.097	Pass
NVNT	ANT1	1-DH5	2441.00	-0.484	-45.104	-20.484	Pass
NVNT	ANT1	1-DH5	2480.00	-0.814	-44.369	-20.814	Pass
NVNT	ANT1	2-DH5	2402.00	-0.760	-46.986	-20.760	Pass
NVNT	ANT1	2-DH5	2441.00	-0.553	-32.591	-20.553	Pass
NVNT	ANT1	2-DH5	2480.00	-0.828	-44.337	-20.828	Pass
NVNT	ANT1	3-DH5	2402.00	-0.477	-45.119	-20.477	Pass
NVNT	ANT1	3-DH5	2441.00	-0.447	-44.028	-20.447	Pass
NVNT	ANT1	3-DH5	2480.00	-1.171	-44.260	-21.171	Pass

Note:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

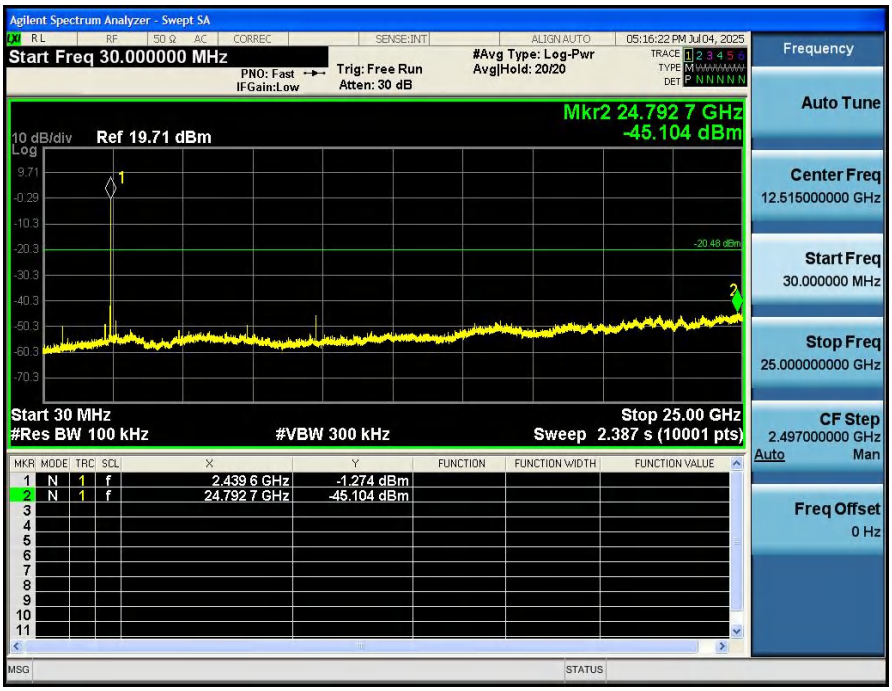
1_Reference_Level_NVNT_ANT1_1-DH5_2402_00

2_Spurious_Emissions_NVNT_ANT1_1-DH5_2402_00



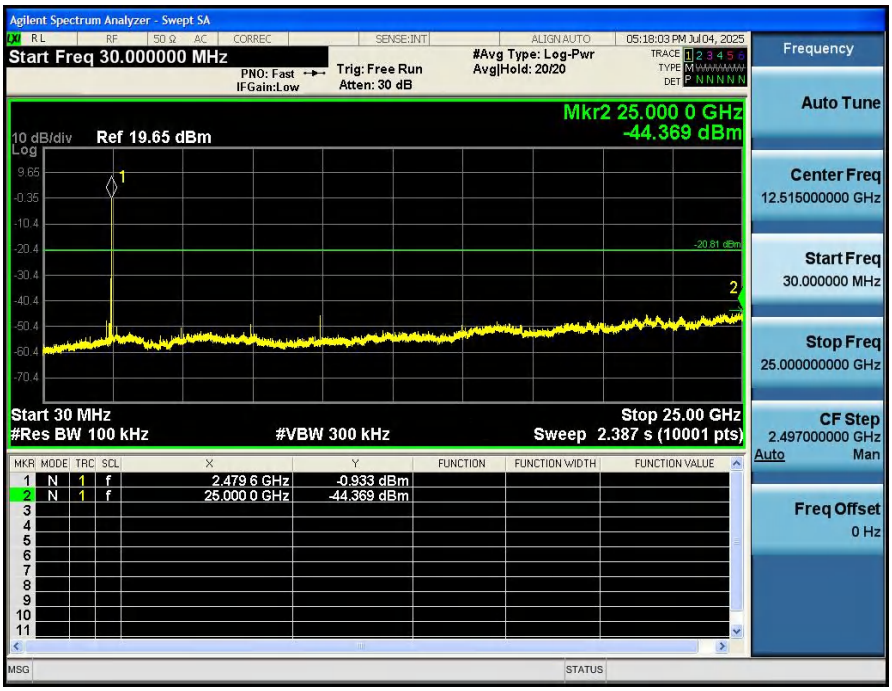
1_Reference_Level_NVNT_ANT1_1-DH5_2441_00

2_Spurious_Emissions_NVNT_ANT1_1-DH5_2441_00



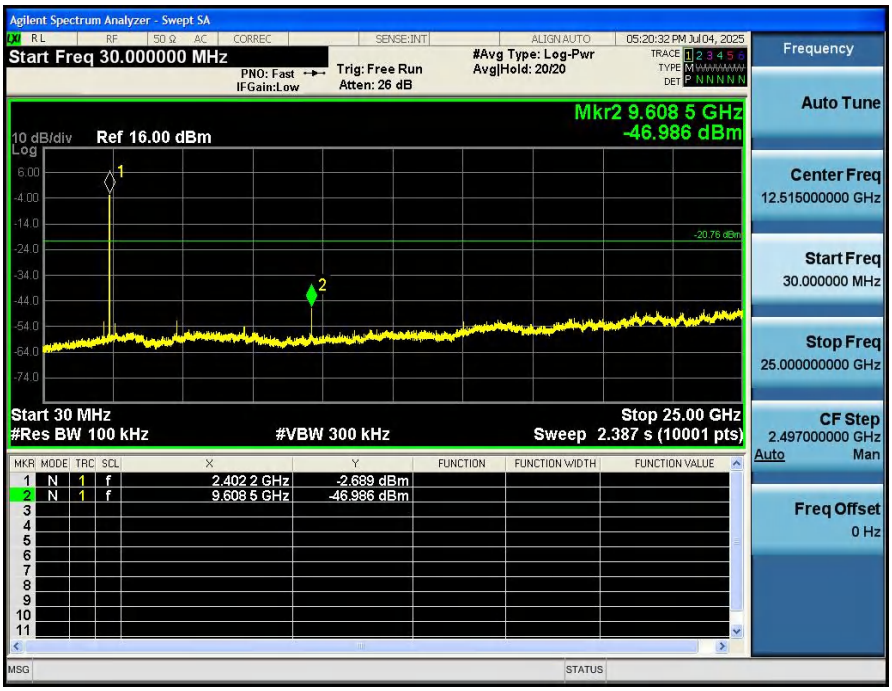
1_Reference_Level_NVNT_ANT1_1-DH5_2480_00

2_Spurious_Emissions_NVNT_ANT1_1-DH5_2480_00

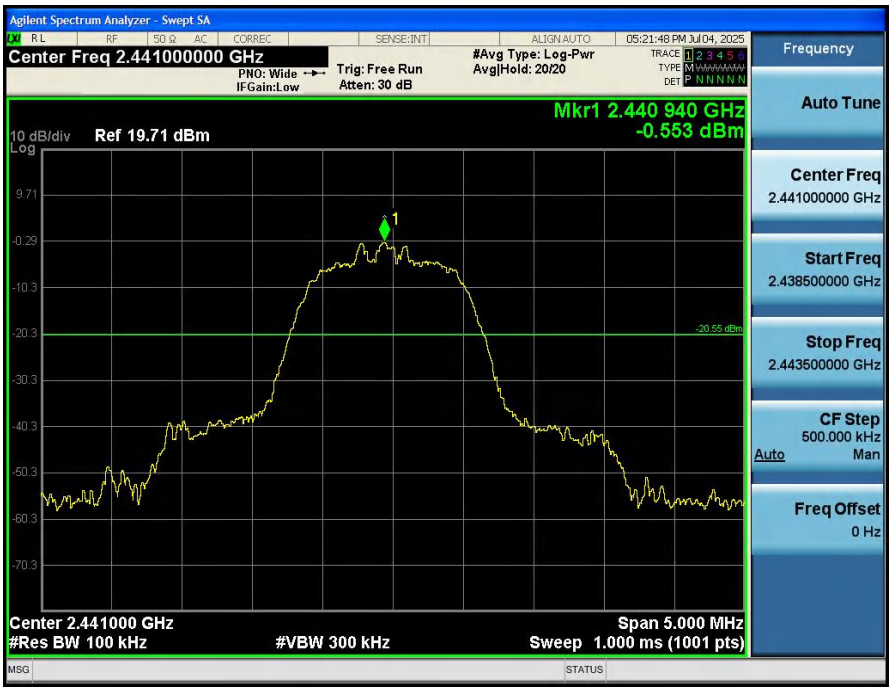


1_Reference_Level_NVNT_ANT1_2-DH5_2402_00

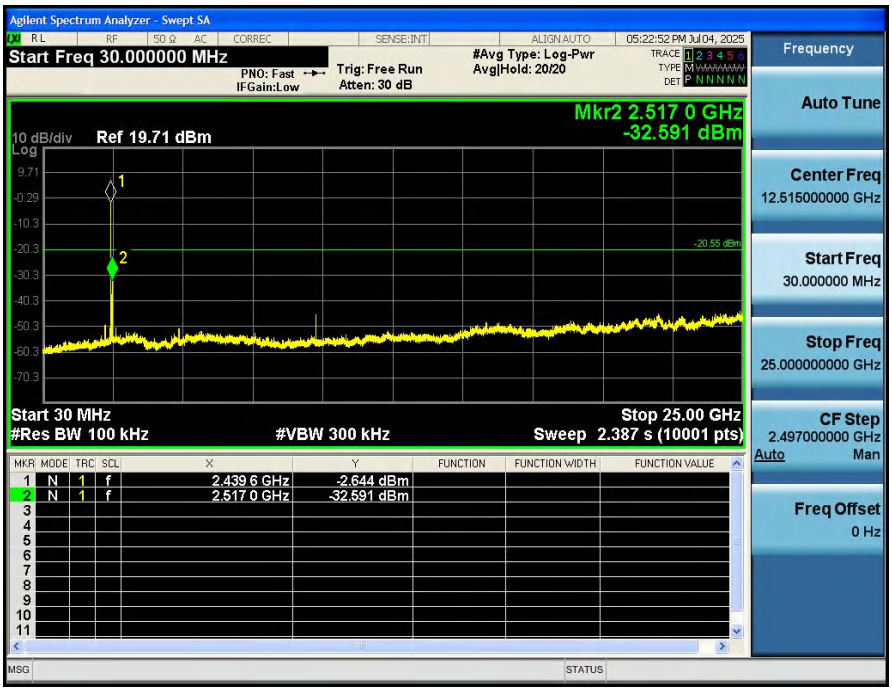
2_Spurious_Emissions_NVNT_ANT1_2-DH5_2402_00



1_Reference_Level_NVNT_ANT1_2-DH5_2441_00

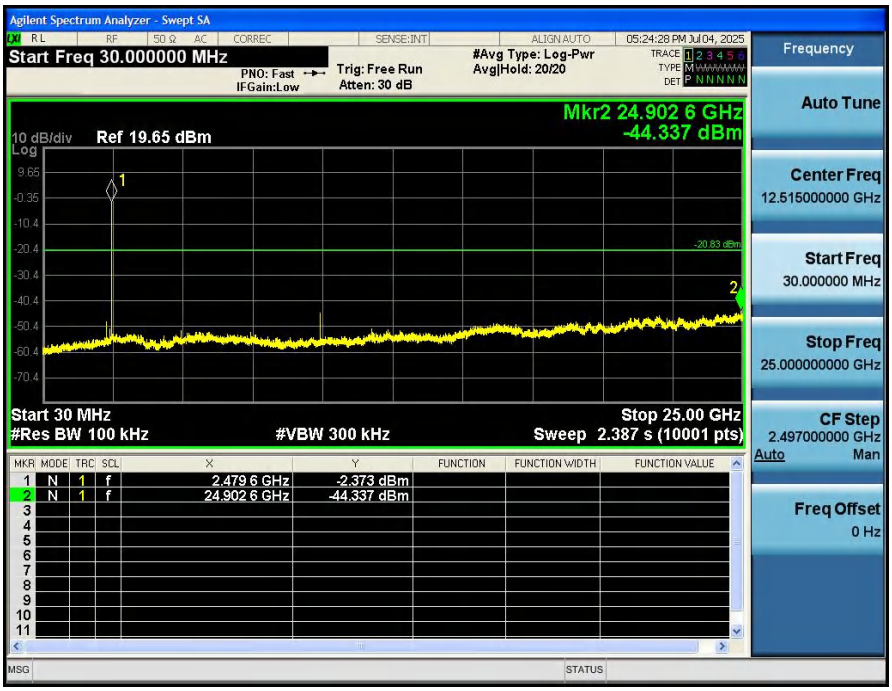


2_Spurious_Emissions_NVNT_ANT1_2-DH5_2441_00



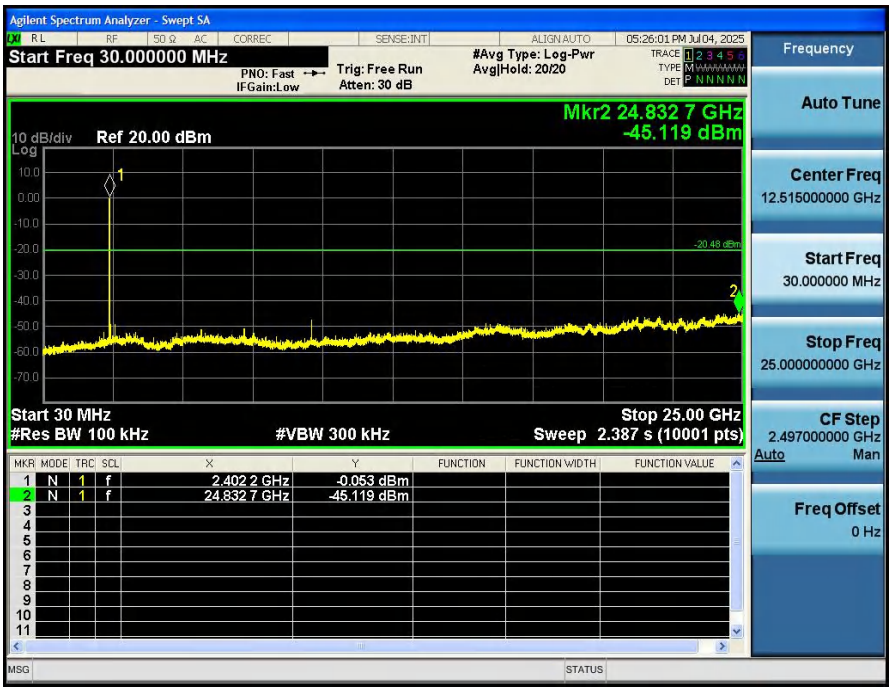
1_Reference_Level_NVNT_ANT1_2-DH5_2480_00

2_Spurious_Emissions_NVNT_ANT1_2-DH5_2480_00



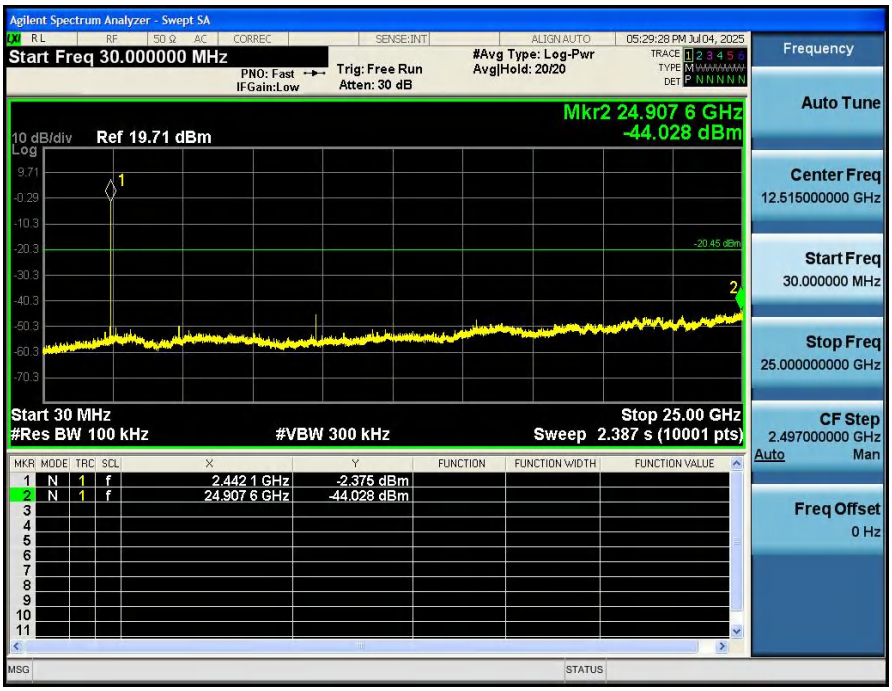
1_Reference_Level_NVNT_ANT1_3-DH5_2402_00

2_Spurious_Emissions_NVNT_ANT1_3-DH5_2402_00



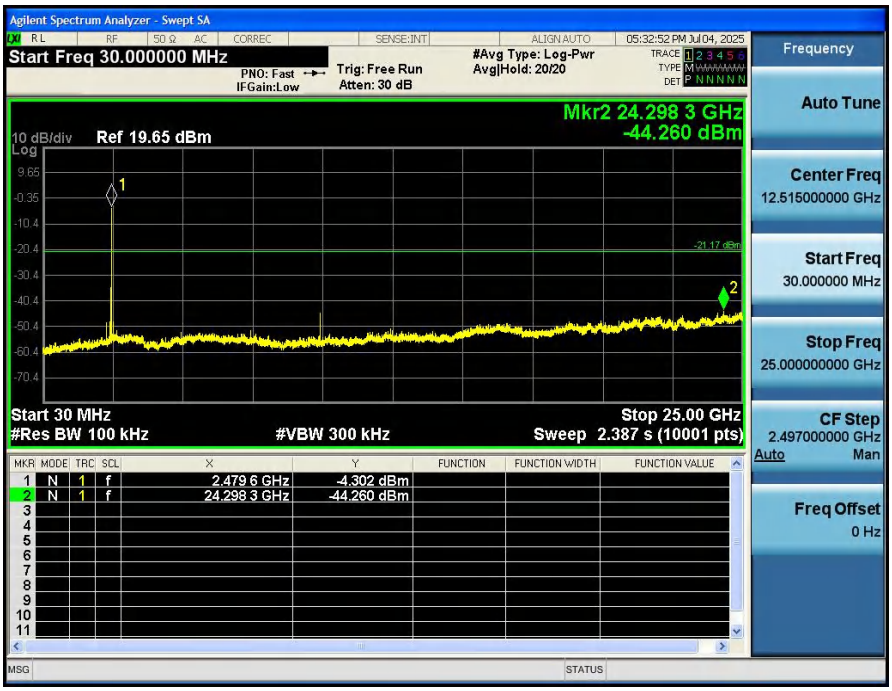
1_Reference_Level_NVNT_ANT1_3-DH5_2441_00

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


Agilent Spectrum Analyzer - Swept SA
Start Freq 30.000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
#Avg Type: Log-Pwr
Avg|Hold: 20/20
05:32:52 PM Jul 04, 2025
Mkr2 24.298 3 GHz
-44.260 dBm
10 dB/div
Ref 19.65 dBm
Log
9.65
-0.35
-10.4
-20.4
-30.4
-40.4
-50.4
-60.4
-70.4
-21.17 dBm
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.00 GHz
Sweep 2.387 s (10001 pts)
1 N 1 f 2.479 6 GHz -4.302 dBm
2 N 1 f 24.298 3 GHz -44.260 dBm
Frequency
Auto Tune
Center Freq
12.515000000 GHz
Start Freq
30.000000 MHz
Stop Freq
25.000000000 GHz
CF Step
2.497000000 GHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS