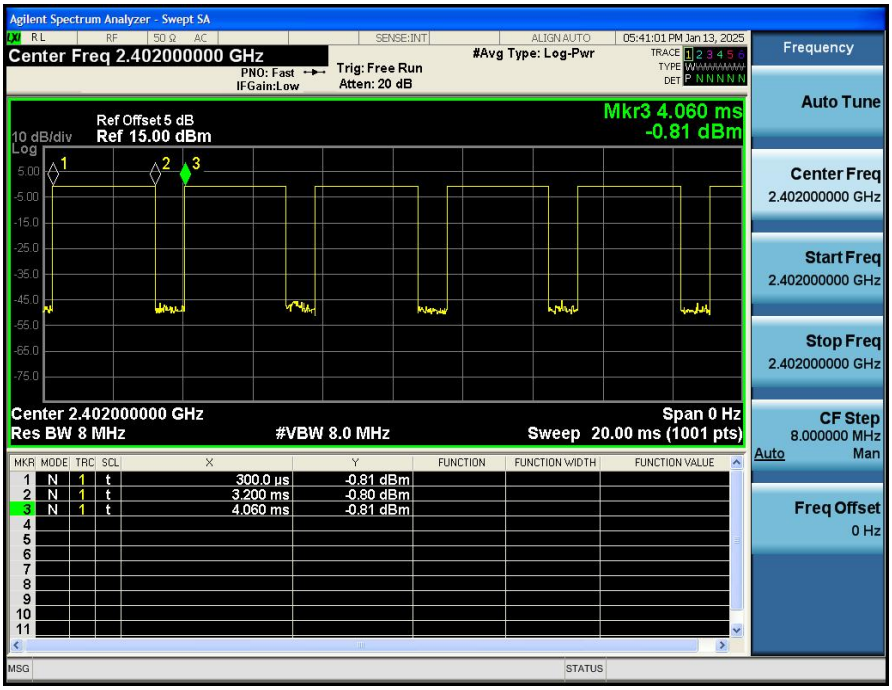
Appendix Test Data

Report No.:	1813C50010812501	Test Sample No.:	1-2-2
Start Test Date:	2025.1.8	Finish Test Date:	2025.1.13
Test Engineer:	Joker Huang	Auditor:	Justin Feng
Temperature:	22.5℃	Relative Humidity:	52%
Pressure:	101kPa		

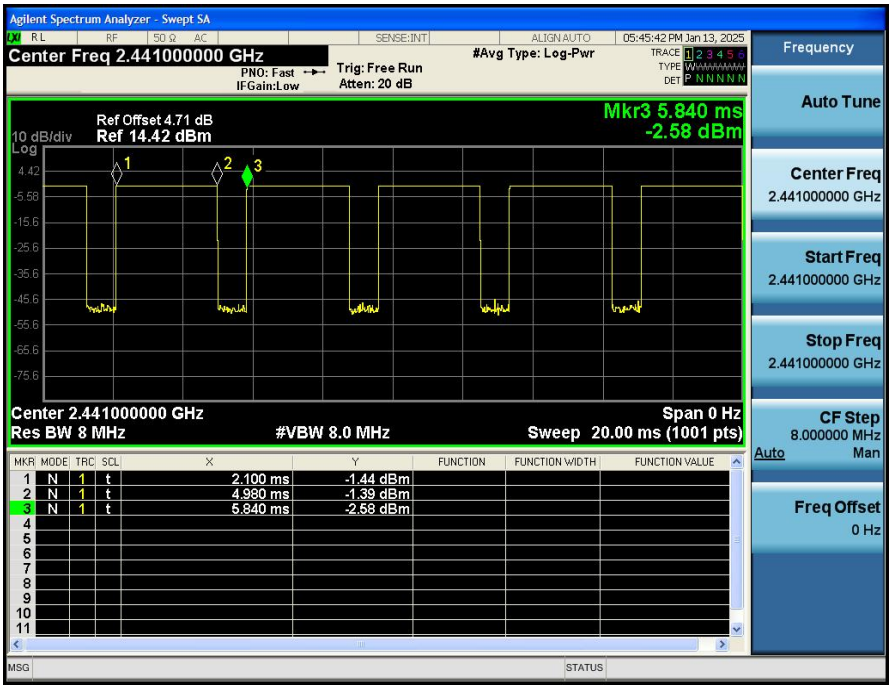
Appendix A: Duty Cycle

Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	1-DH5	2402.00	77.13	1.13
NVNT	ANT1	1-DH5	2441.00	77.54	1.10
NVNT	ANT1	1-DH5	2480.00	77.13	1.13
NVNT	ANT1	2-DH5	2402.00	77.01	1.13
NVNT	ANT1	2-DH5	2441.00	77.66	1.10
NVNT	ANT1	2-DH5	2480.00	77.54	1.10

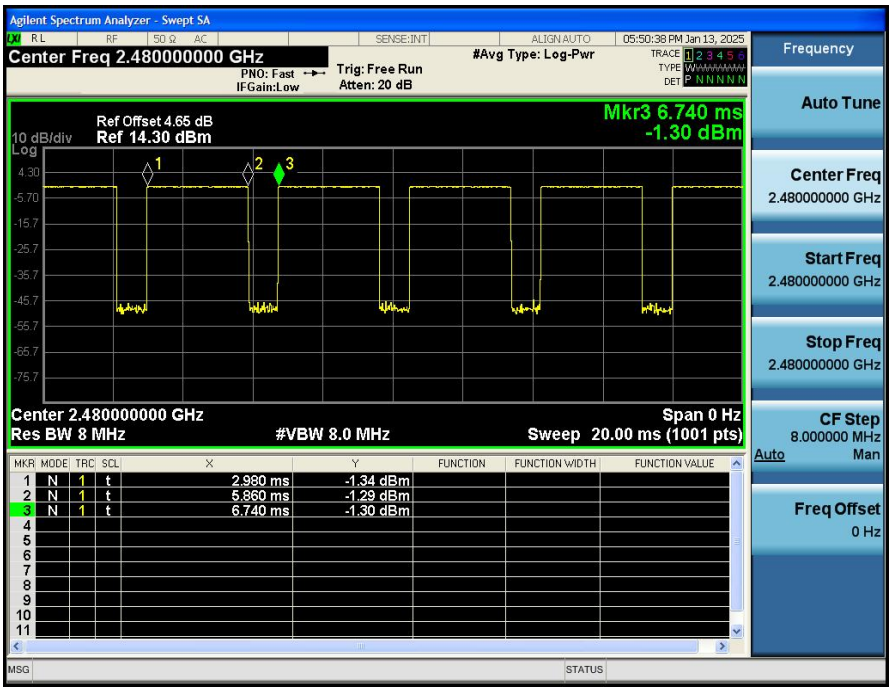
Duty_Cycle_NVNT_ANT1_1-DH5_2402



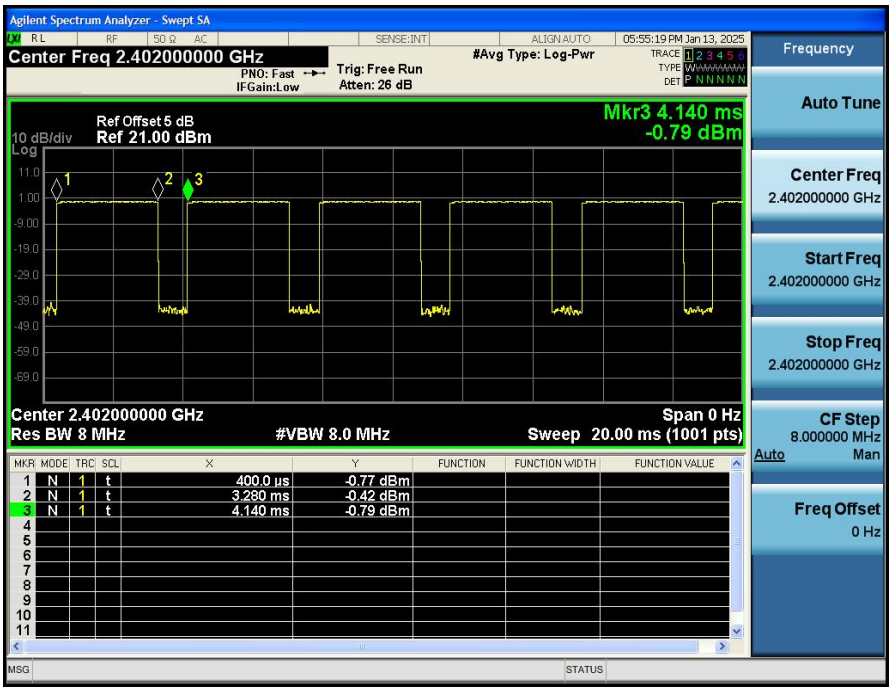
Duty_Cycle_NVNT_ANT1_1-DH5_2441



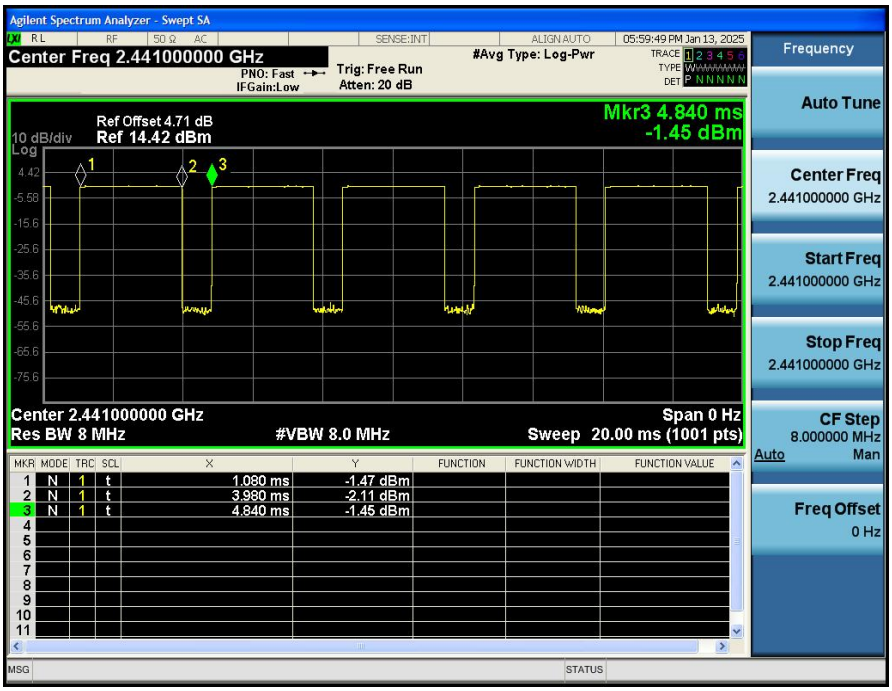
Duty_Cycle_NVNT_ANT1_1-DH5_2480



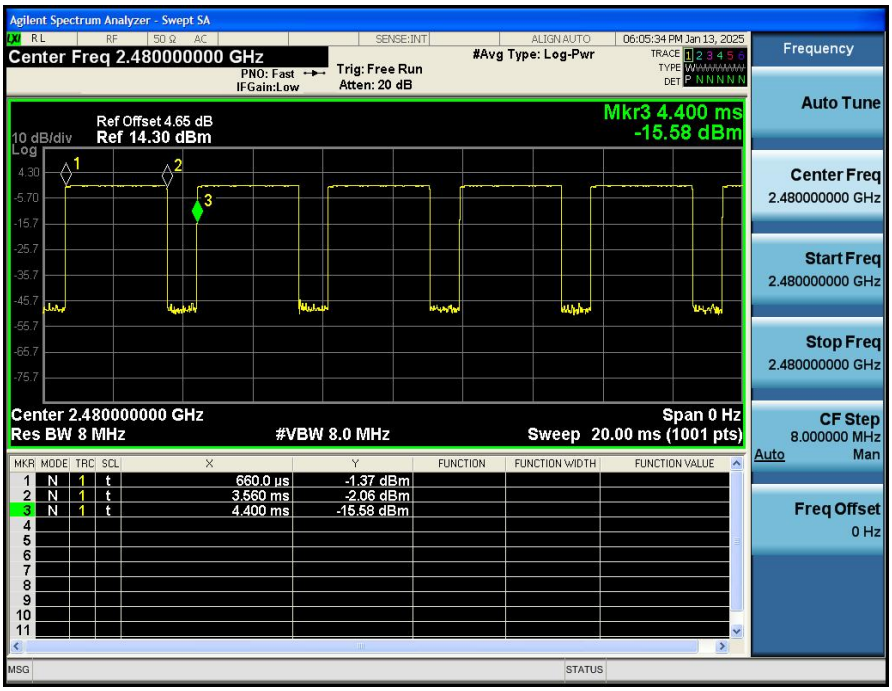
Duty_Cycle_NVNT_ANT1_2-DH5_2402



Duty_Cycle_NVNT_ANT1_2-DH5_2441



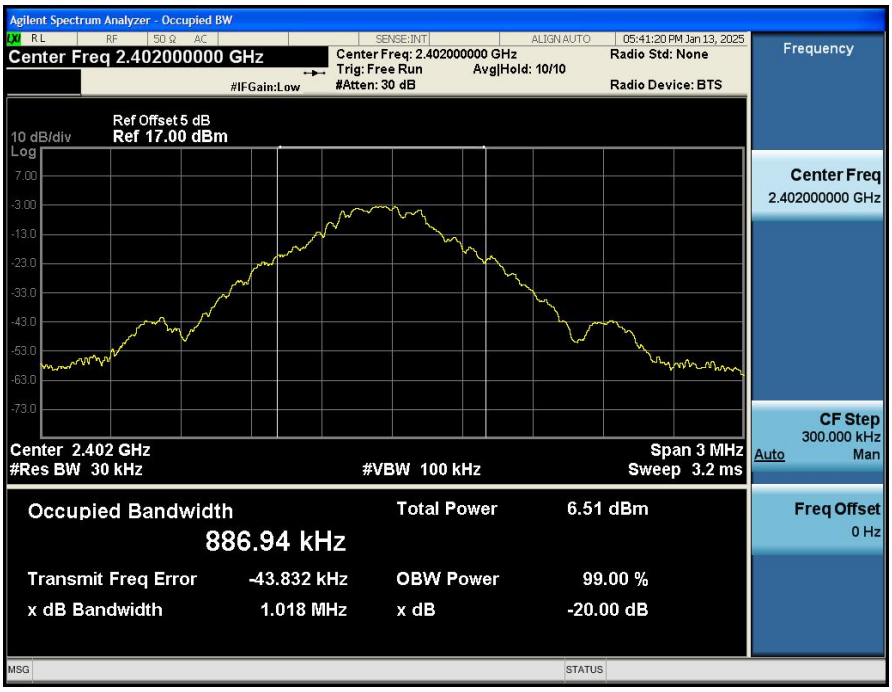
Duty_Cycle_NVNT_ANT1_2-DH5_2480


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.480000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 20 dB
#Avg Type: Log-Pwr
06:05:34 PM Jan 13, 2025
Ref Offset 4.65 dB
10 dB/div
Ref 14.30 dBm
Mkr3 4.400 ms
-15.58 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 660.0 µs -1.37 dBm
2 N 1 t 3.560 ms -2.06 dBm
3 N 1 t 4.400 ms -15.58 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

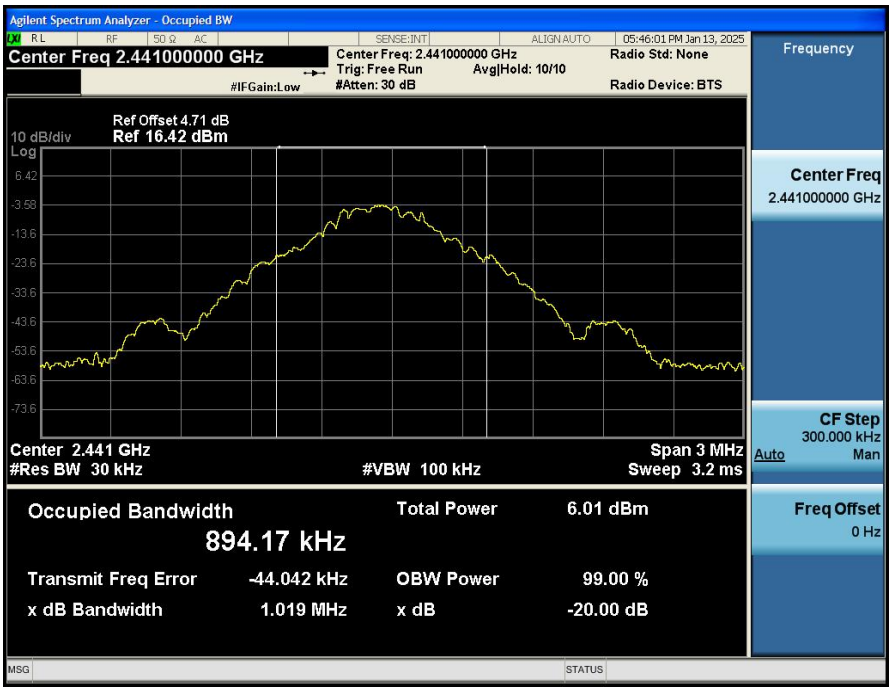
Appendix B: -20dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS
NVNT	ANT1	1-DH5	2402.00	1.018	Yes
NVNT	ANT1	1-DH5	2441.00	1.019	Yes
NVNT	ANT1	1-DH5	2480.00	1.024	Yes
NVNT	ANT1	2-DH5	2402.00	1.325	Yes
NVNT	ANT1	2-DH5	2441.00	1.320	Yes
NVNT	ANT1	2-DH5	2480.00	1.320	Yes

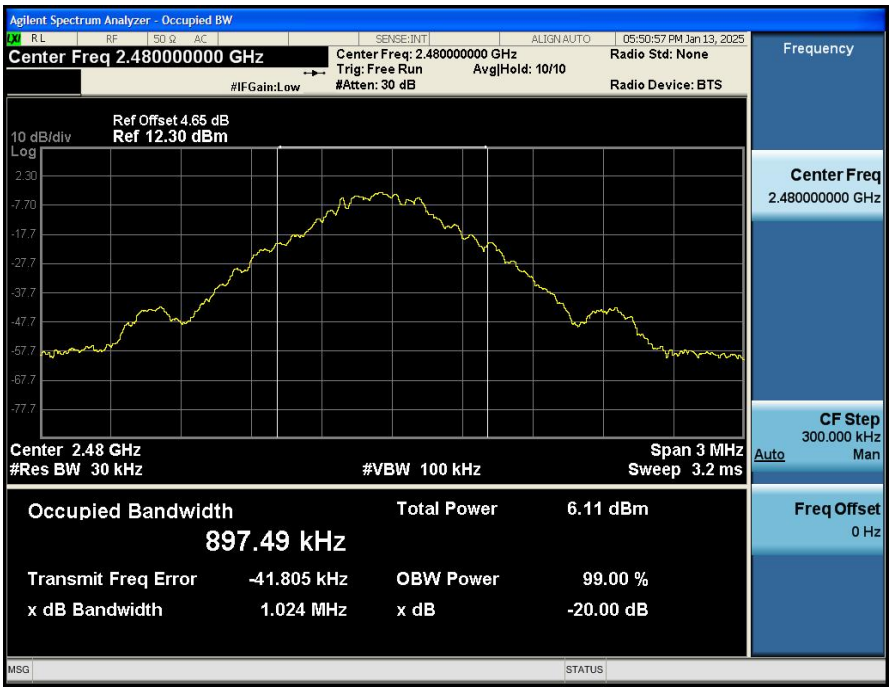
-20dB_Bandwidth_NVNT_ANT1_1-DH5_2402_00



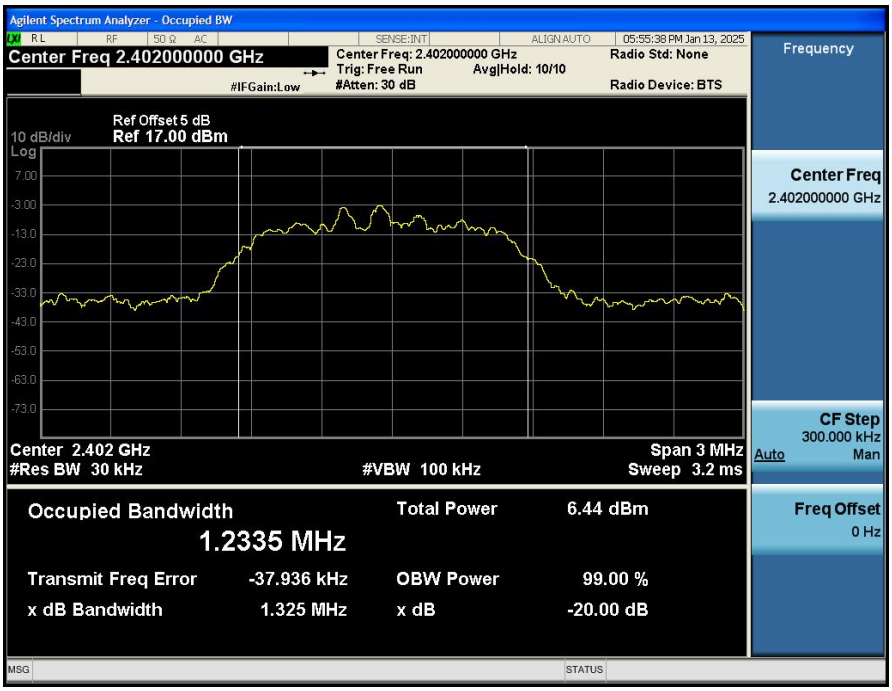
-20dB_Bandwidth_NVNT_ANT1_1-DH5_2441_00



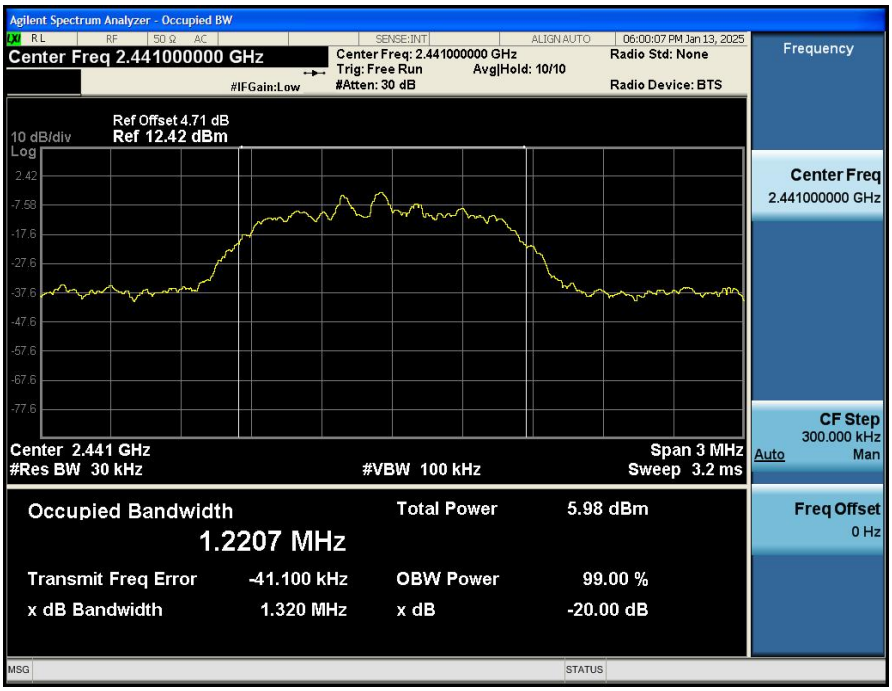
-20dB_Bandwidth_NVNT_ANT1_1-DH5_2480_00



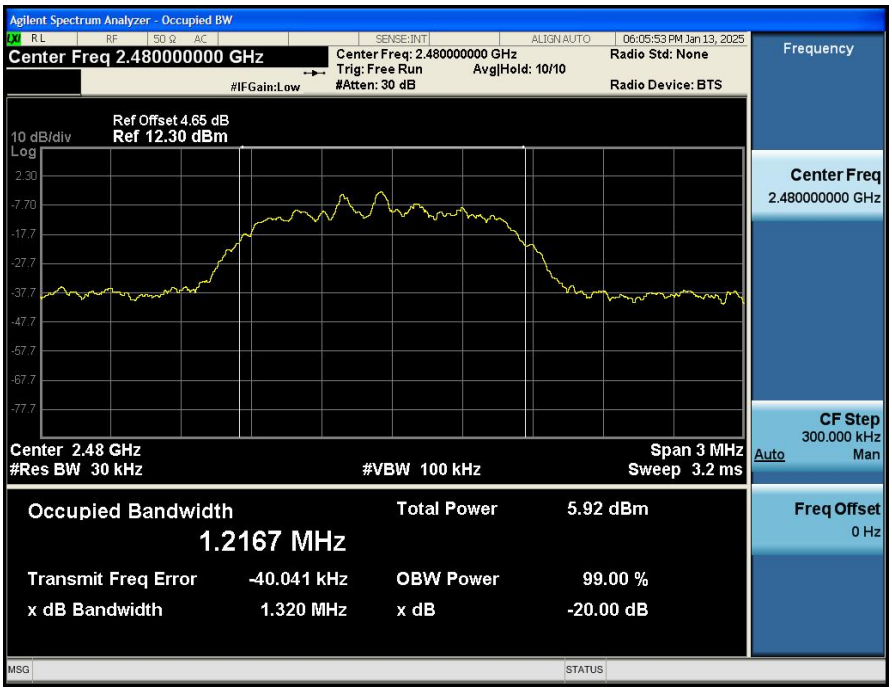
-20dB_Bandwidth_NVNT_ANT1_2-DH5_2402_00



-20dB_Bandwidth_NVNT_ANT1_2-DH5_2441_00



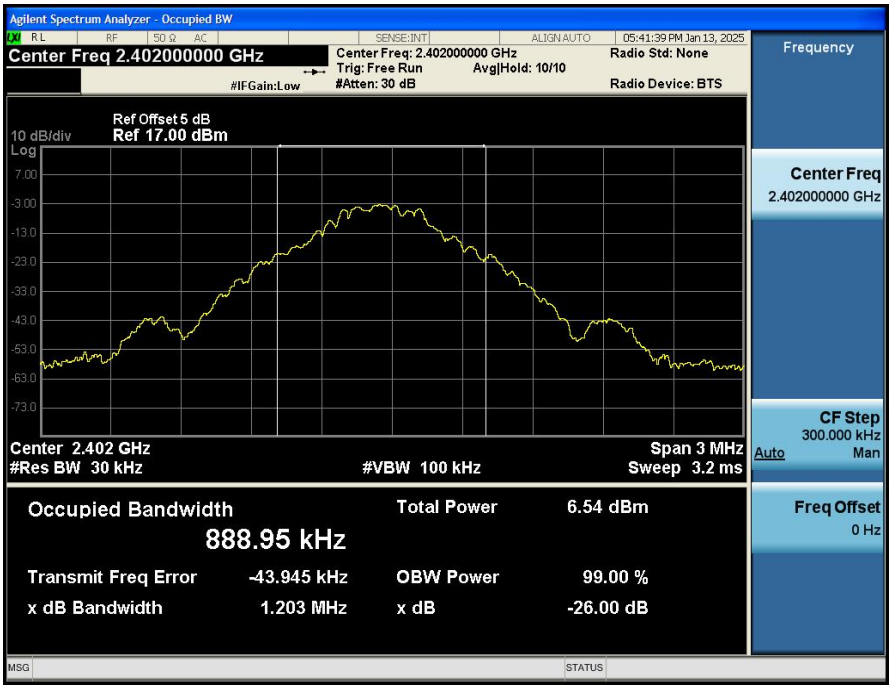
-20dB_Bandwidth_NVNT_ANT1_2-DH5_2480_00


Agilent Spectrum Analyzer - Occupied BW
Center Freq 2.480000000 GHz
Center Freq: 2.480000000 GHz
Trig: Free Run
Avg|Hold: 10/10
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
06:05:53 PM Jan 13, 2025
Ref Offset 4.65 dB
10 dB/div
Ref 12.30 dBm
Log
2.30
-7.70
-17.7
-27.7
-37.7
-47.7
-57.7
-67.7
-77.7
Center 2.48 GHz
#Res BW 30 kHz
#VBW 100 kHz
Span 3 MHz
Sweep 3.2 ms
Occupied Bandwidth
1.2167 MHz
Total Power 5.92 dBm
Transmit Freq Error -40.041 kHz
OBW Power 99.00 %
x dB Bandwidth 1.320 MHz
x dB -20.00 dB
Frequency
Center Freq
2.480000000 GHz
CF Step
300.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

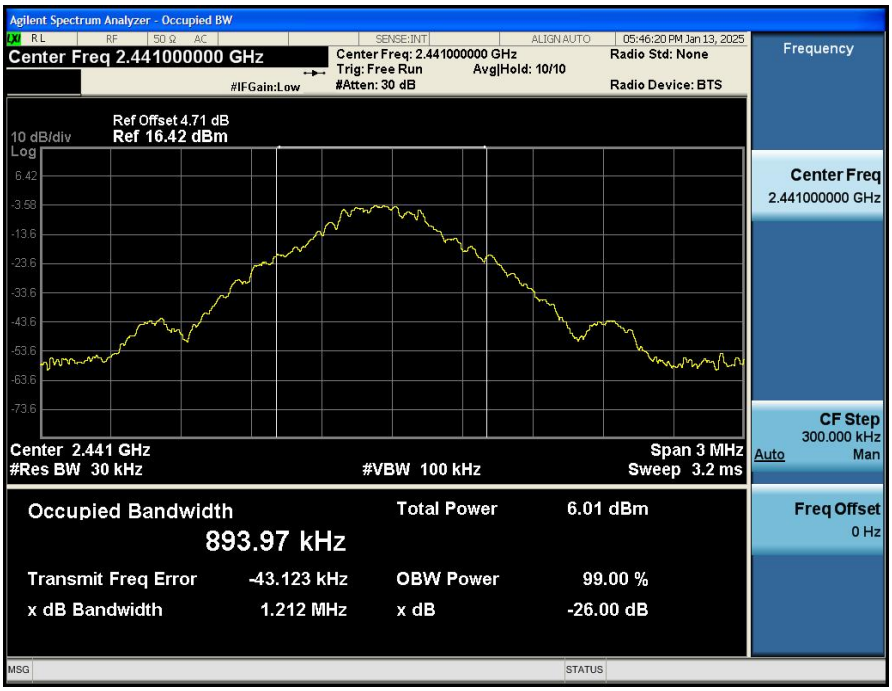
Appendix C: 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%BW(MHz)
NVNT	ANT1	1-DH5	2402.00	0.889
NVNT	ANT1	1-DH5	2441.00	0.894
NVNT	ANT1	1-DH5	2480.00	0.899
NVNT	ANT1	2-DH5	2402.00	1.233
NVNT	ANT1	2-DH5	2441.00	1.220
NVNT	ANT1	2-DH5	2480.00	1.219

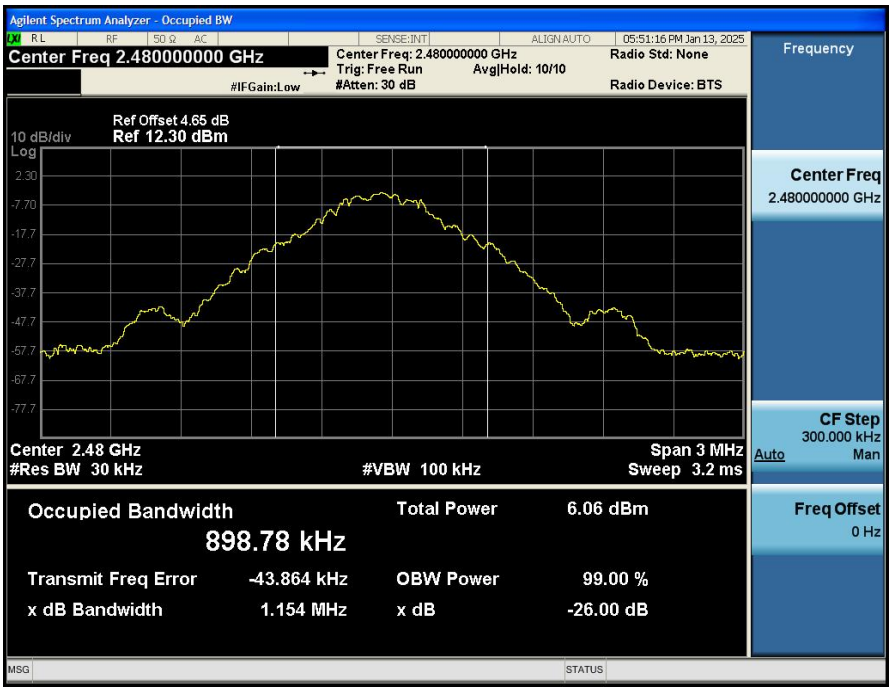
99%_Occupied_Bandwidth_NVNT_ANT1_1-DH5_2402_00



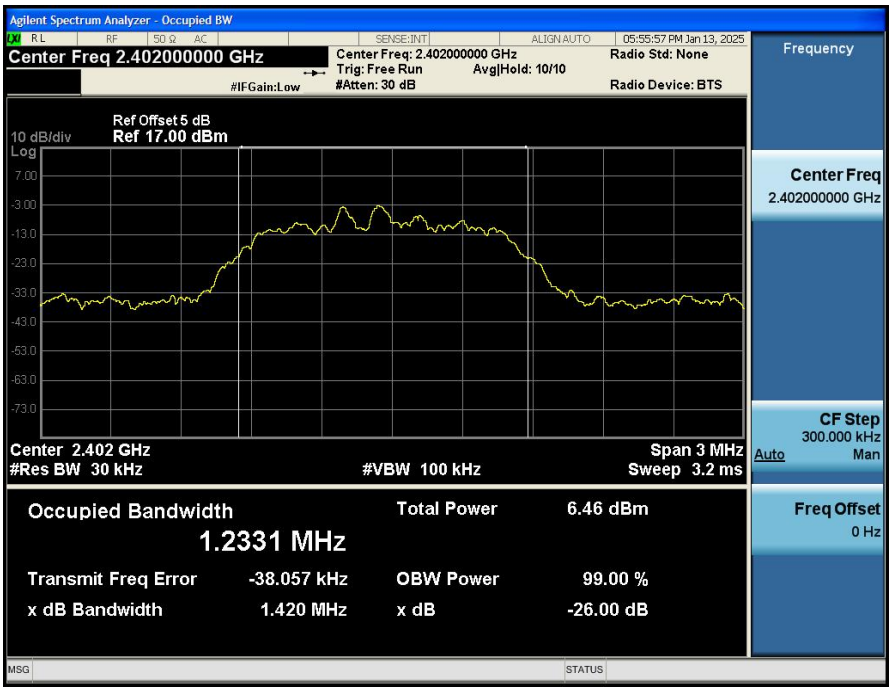
99%_Occupied_Bandwidth_NVNT_ANT1_1-DH5_2441_00



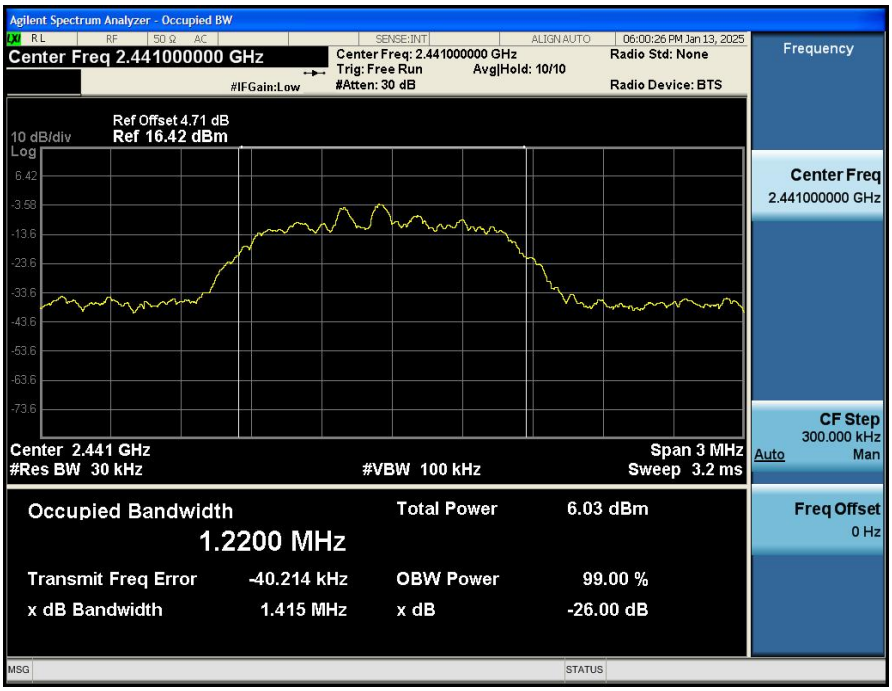
99%_Occupied_Bandwidth_NVNT_ANT1_1-DH5_2480_00



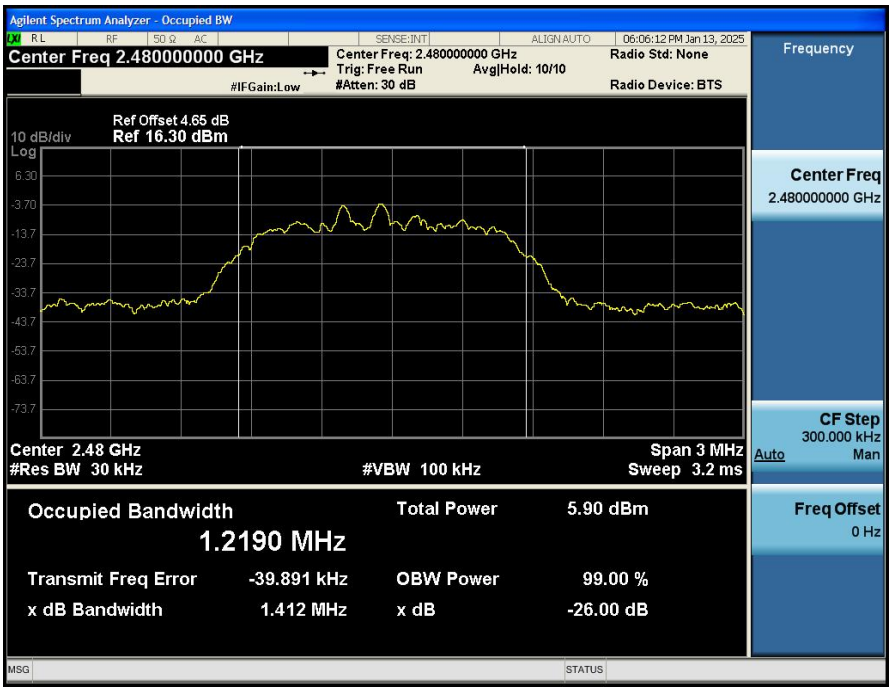
99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2402_00



99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2441_00



99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2480_00


Agilent Spectrum Analyzer - Occupied BW
Center Freq 2.480000000 GHz
Center Freq: 2.480000000 GHz
Trig: Free Run
Avg|Hold: 10/10
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
06:06:12 PM Jan 13, 2025
Frequency
Ref Offset 4.65 dB
10 dB/div
Ref 16.30 dBm
Log
6.30
-3.70
-13.7
-23.7
-33.7
-43.7
-53.7
-63.7
-73.7
Center Freq
2.480000000 GHz
Center 2.48 GHz
#Res BW 30 kHz
#VBW 100 kHz
Span 3 MHz
Sweep 3.2 ms
CF Step
300.000 kHz
Auto
Man
Occupied Bandwidth
1.2190 MHz
Total Power 5.90 dBm
Transmit Freq Error -39.891 kHz
OBW Power 99.00 %
x dB Bandwidth 1.412 MHz
x dB -26.00 dB
Freq Offset
0 Hz
MSG
STATUS

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	-0.79	0.83	125	Pass
NVNT	ANT1	1-DH5	2441.00	-1.34	0.73	125	Pass
NVNT	ANT1	1-DH5	2480.00	-1.26	0.75	125	Pass
NVNT	ANT1	2-DH5	2402.00	**-0.29**	0.94	125	Pass
NVNT	ANT1	2-DH5	2441.00	-0.88	0.82	125	Pass
NVNT	ANT1	2-DH5	2480.00	-0.78	0.84	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

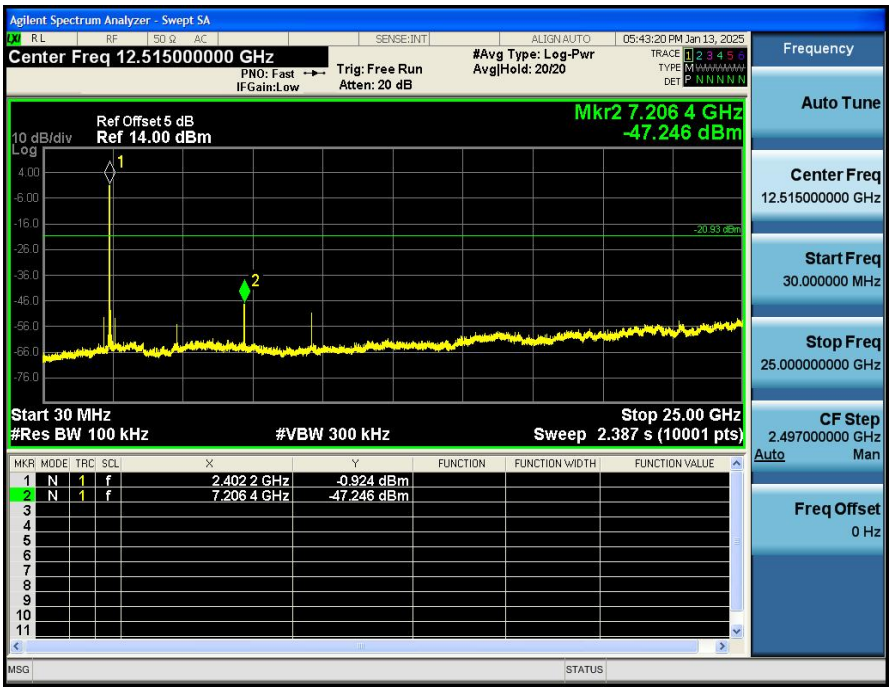
Agilent Spectrum Analyzer - Swept SA
Center Freq 2.480000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 20 dB
#Avg Type: Log-Pwr
Avg|Hold: 10/10
06:06:30 PM Jan 13, 2025
Ref Offset 4.65 dB
10 dB/div
Ref 14.30 dBm
Log
Mkr1 2.480 105 GHz
-0.781 dBm
Center 2.480000 GHz
#Res BW 3.0 MHz
#VBW 8.0 MHz
Span 7.000 MHz
Sweep 1.000 ms (1001 pts)
Frequency
Auto Tune
Center Freq
2.480000000 GHz
Start Freq
2.476500000 GHz
Stop Freq
2.483500000 GHz
CF Step
700.000 kHz
Auto
Man
Freq Offset
0 Hz

Appendix E: Spurious Emissions

Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1-DH5	2402.00	-0.925	-47.246	-20.925	Pass
NVNT	ANT1	1-DH5	2441.00	-1.524	-46.403	-21.524	Pass
NVNT	ANT1	1-DH5	2480.00	-1.439	-47.978	-21.439	Pass
NVNT	ANT1	2-DH5	2402.00	-0.983	-47.734	-20.983	Pass
NVNT	ANT1	2-DH5	2441.00	-1.676	-49.637	-21.676	Pass
NVNT	ANT1	2-DH5	2480.00	-1.571	-45.867	-21.571	Pass

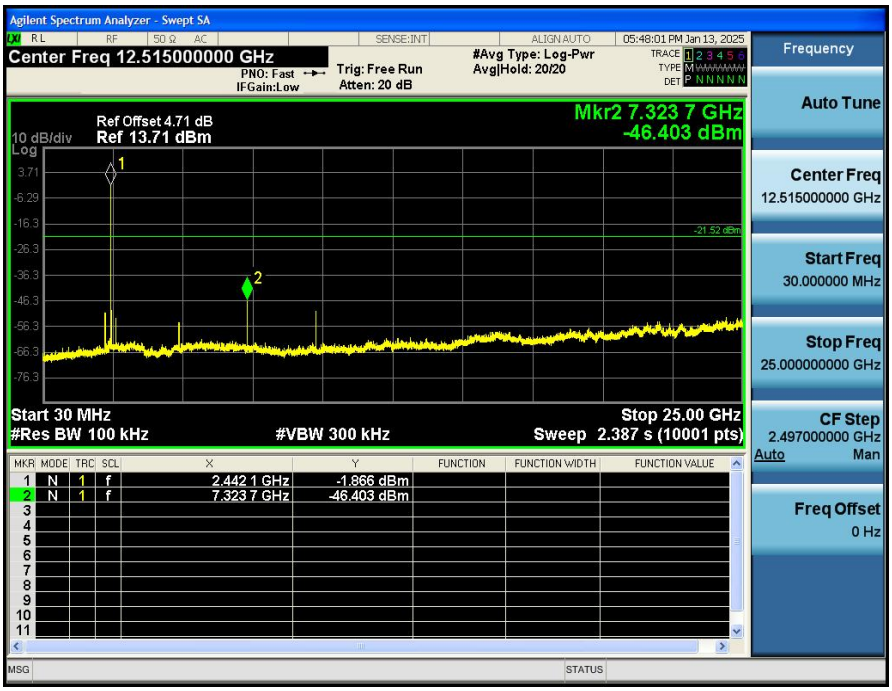
1_Reference_Level_NVNT_ANT1_1-DH5_2402_00

2_Spurious_Emissions_NVNT_ANT1_1-DH5_2402_00



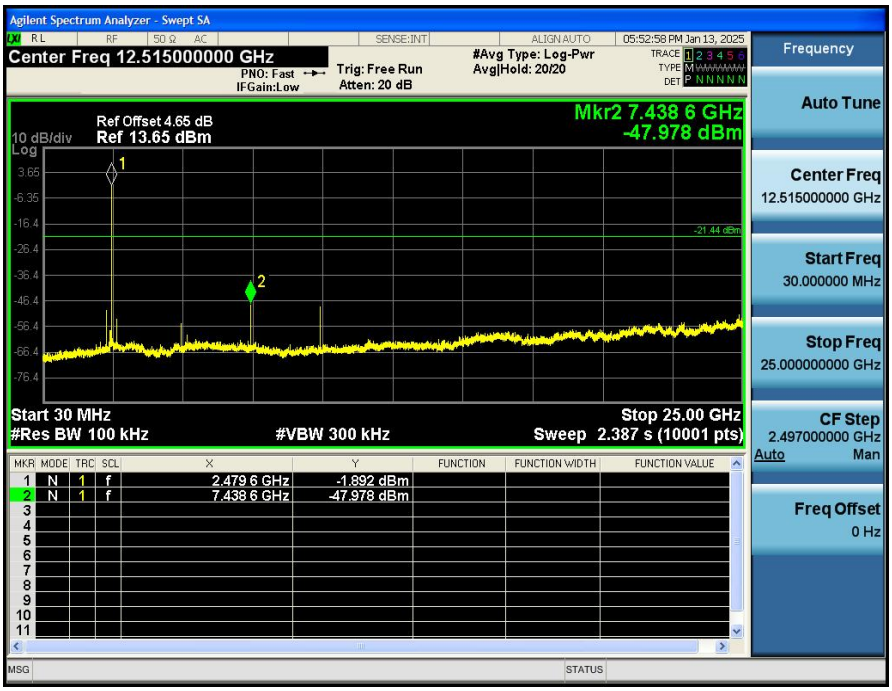
1_Reference_Level_NVNT_ANT1_1-DH5_2441_00

2_Spurious_Emissions_NVNT_ANT1_1-DH5_2441_00



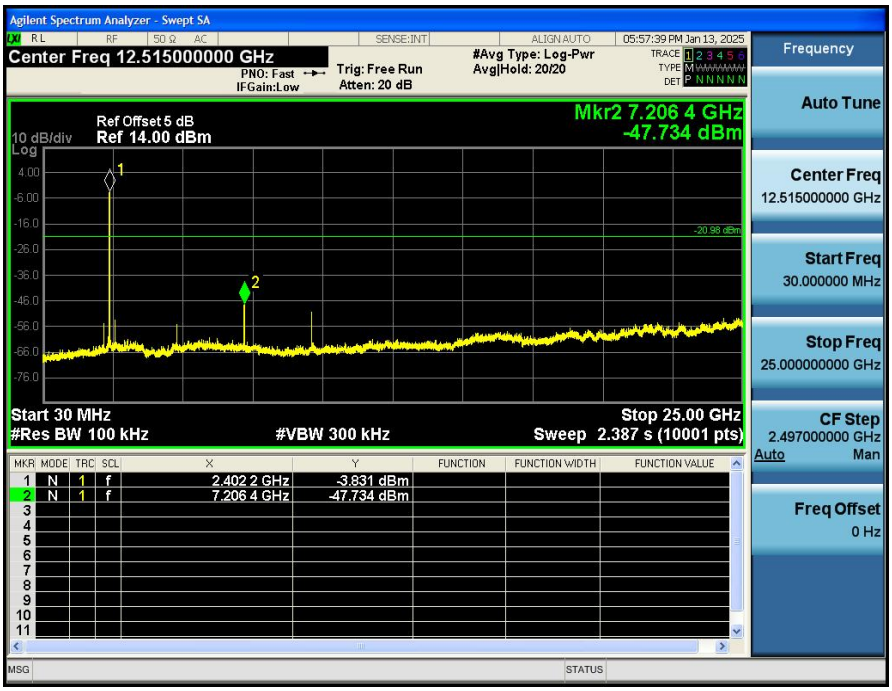
1_Reference_Level_NVNT_ANT1_1-DH5_2480_00

2_Spurious_Emissions_NVNT_ANT1_1-DH5_2480_00



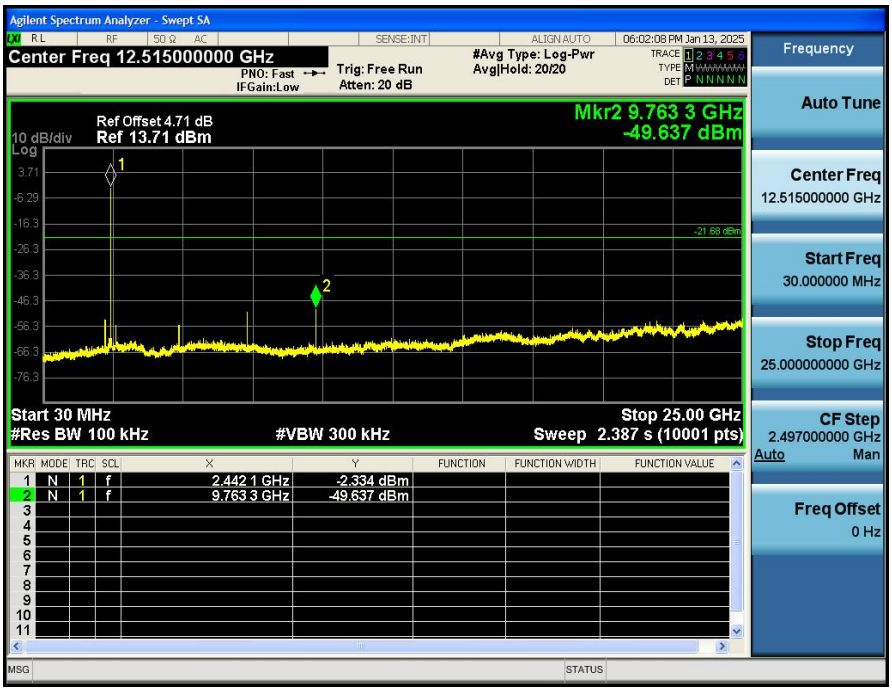
1_Reference_Level_NVNT_ANT1_2-DH5_2402_00

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