

Appendix

Test Data

for BTEK241125107A01E02

Start date	2024/12/27	Finish date	2024/12/27
Temperature	21.7℃	Humidity	41%
RF specifications	BT	Test Engineer	Zora



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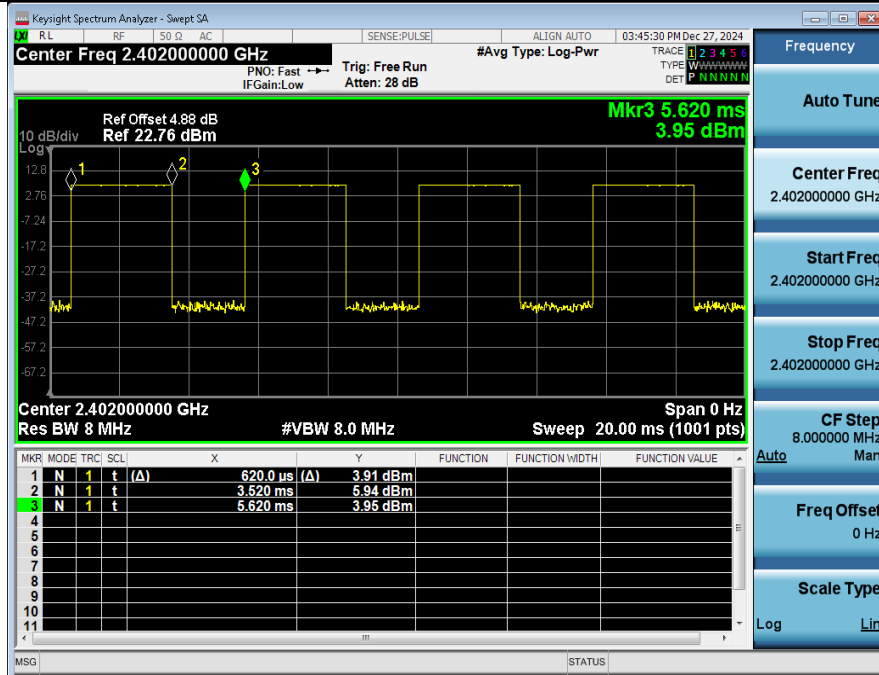
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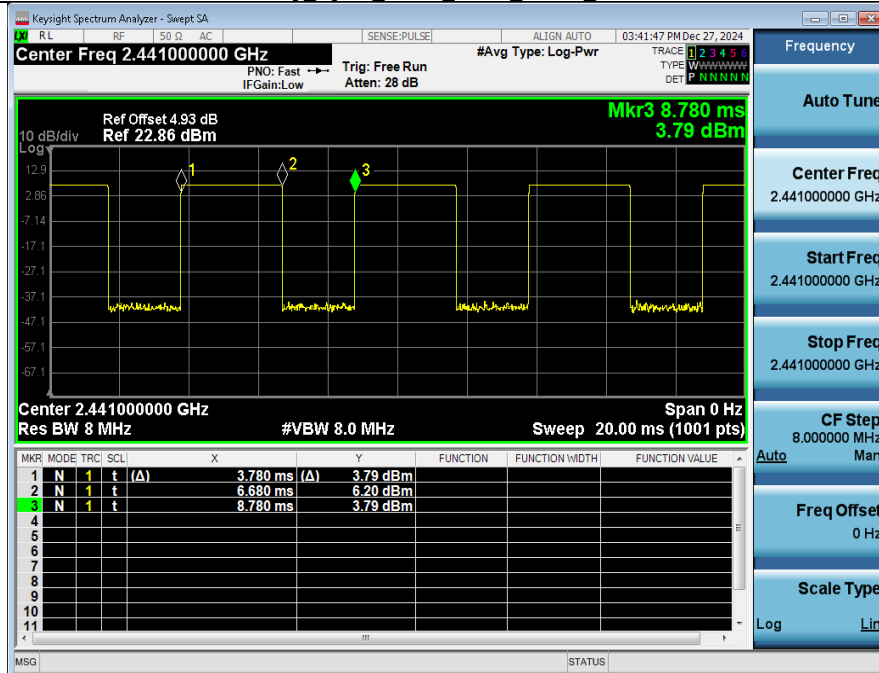
1. Duty Cycle

Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	1-DH5	2402.00	58.00	2.37
NVNT	ANT1	1-DH5	2441.00	58.40	2.34
NVNT	ANT1	1-DH5	2480.00	58.40	2.34
NVNT	ANT1	2-DH5	2402.00	58.40	2.34
NVNT	ANT1	2-DH5	2441.00	58.40	2.34
NVNT	ANT1	2-DH5	2480.00	58.40	2.34
NVNT	ANT1	3-DH5	2402.00	58.40	2.34
NVNT	ANT1	3-DH5	2441.00	58.40	2.34
NVNT	ANT1	3-DH5	2480.00	58.40	2.34

Duty_Cycle_NVNT_ANT1_1-DH5_2402

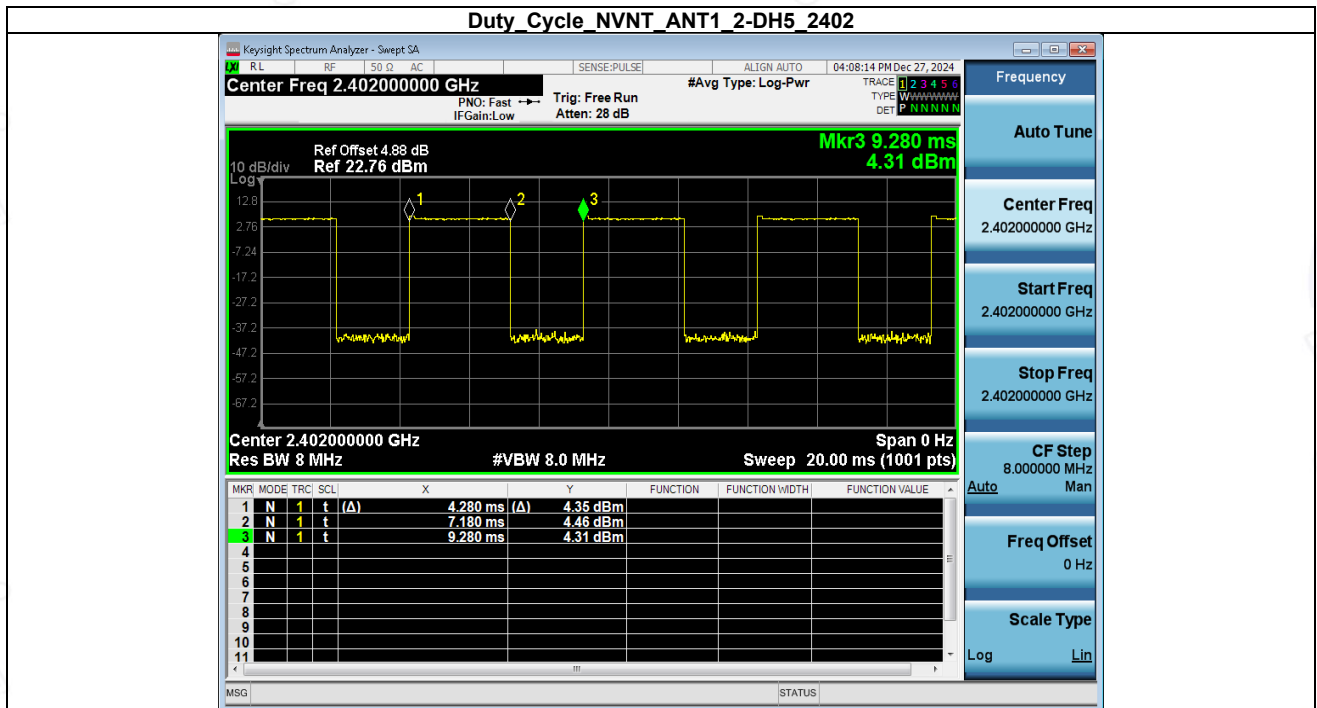
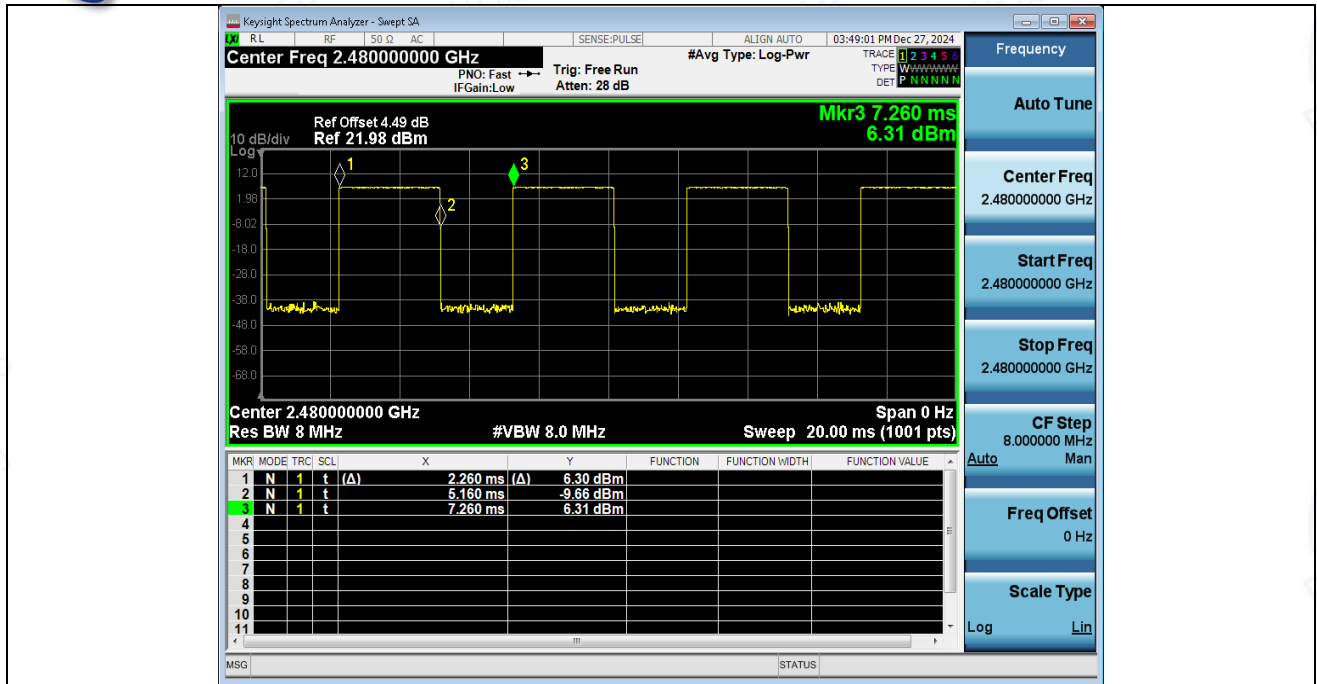


Duty_Cycle_NVNT_ANT1_1-DH5_2441



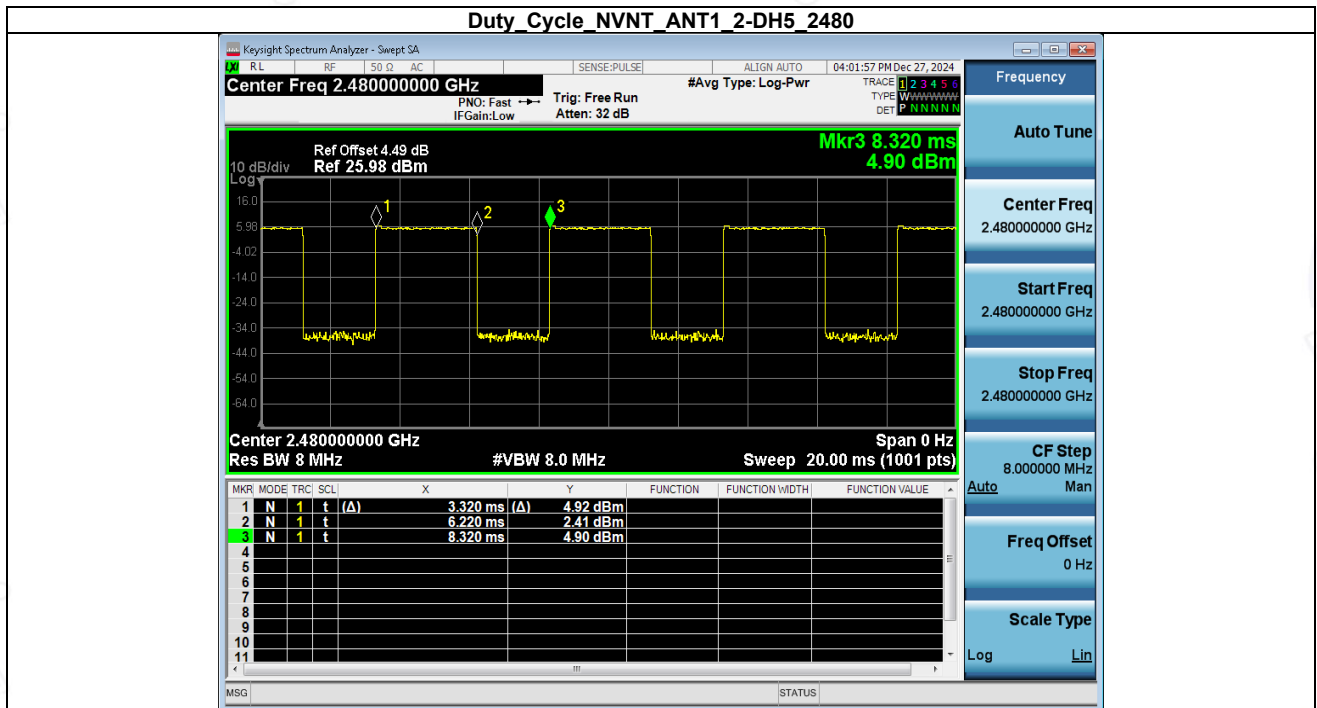
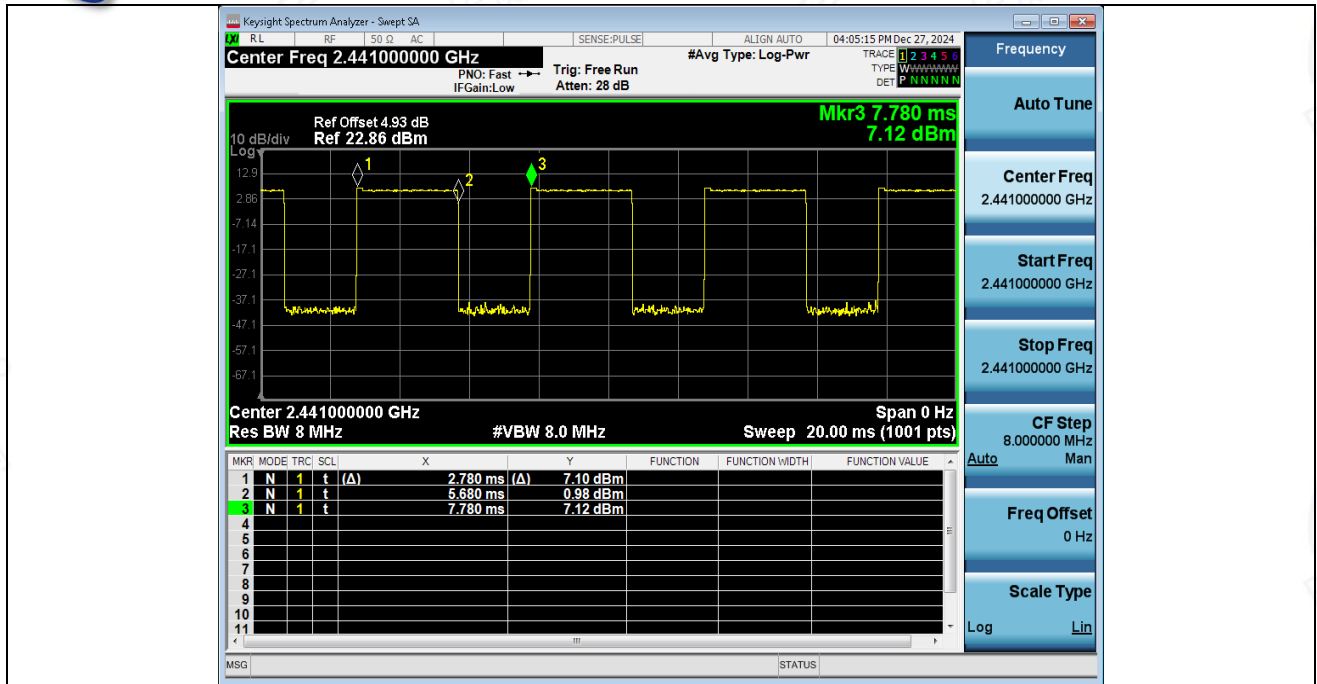
Duty_Cycle_NVNT_ANT1_1-DH5_2480





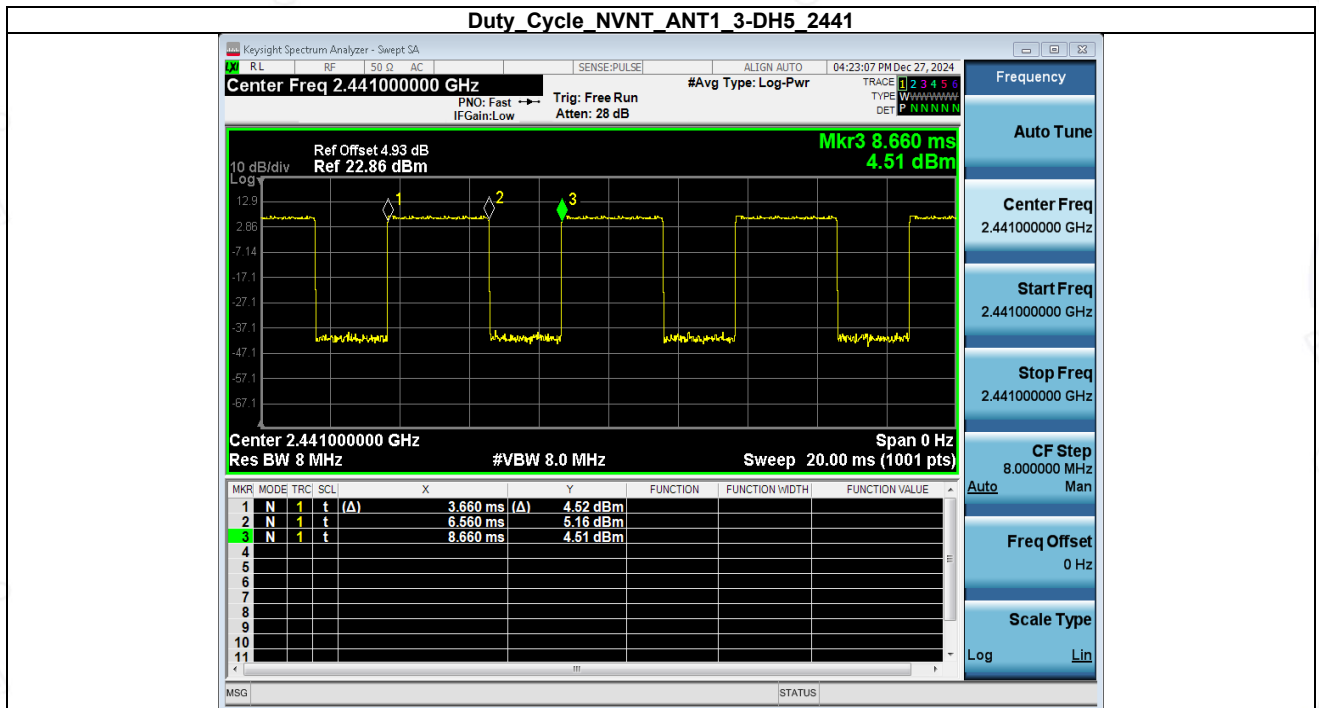
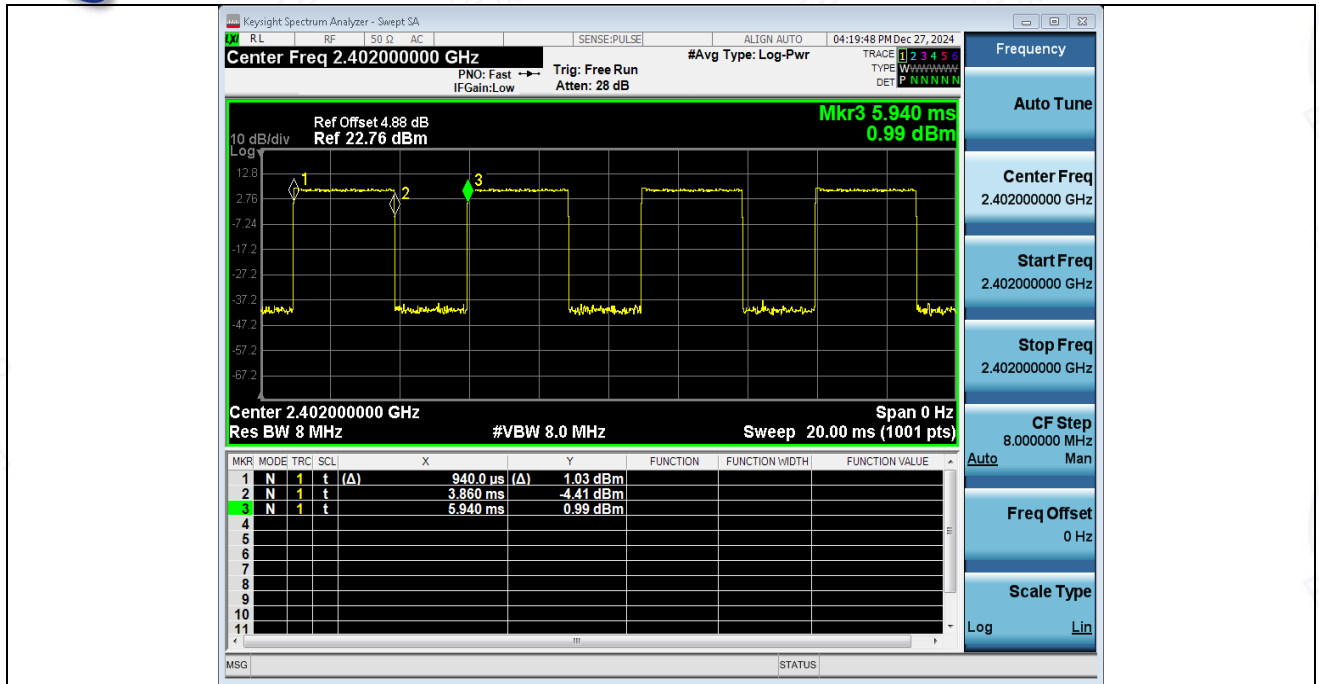
Duty Cycle_NVNT_ANT1_2-DH5_2441





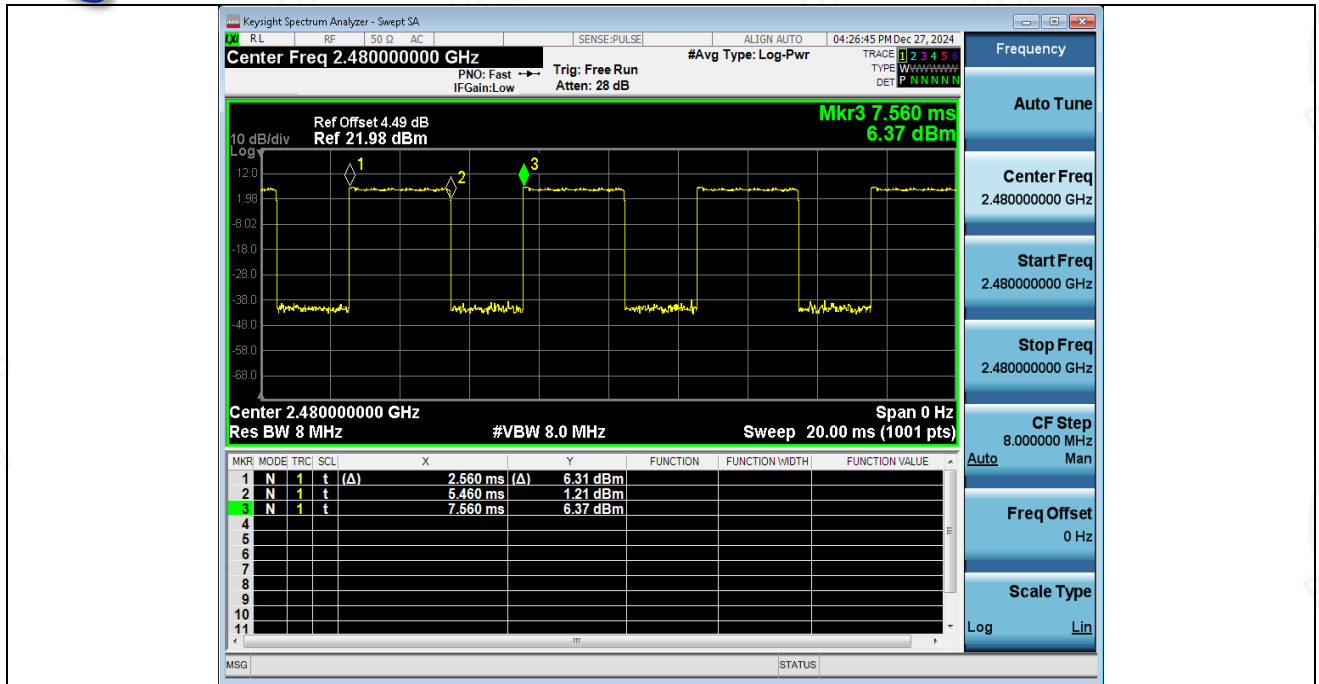
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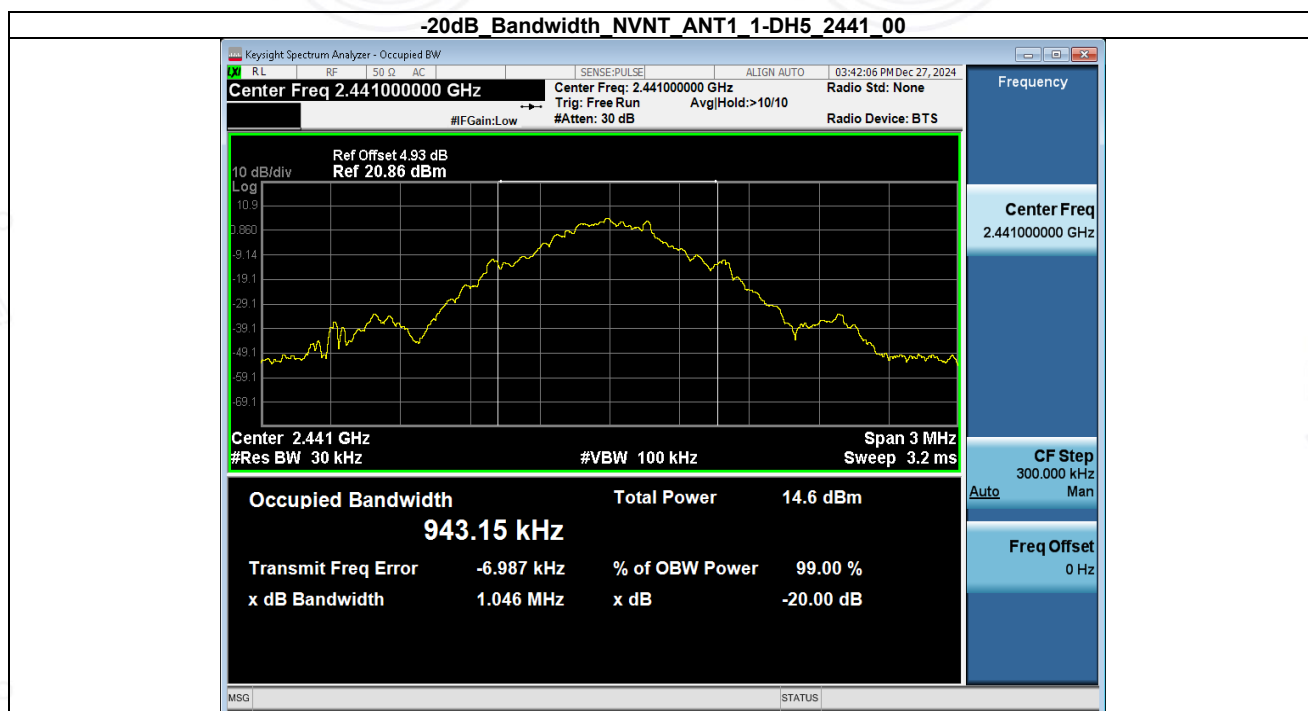
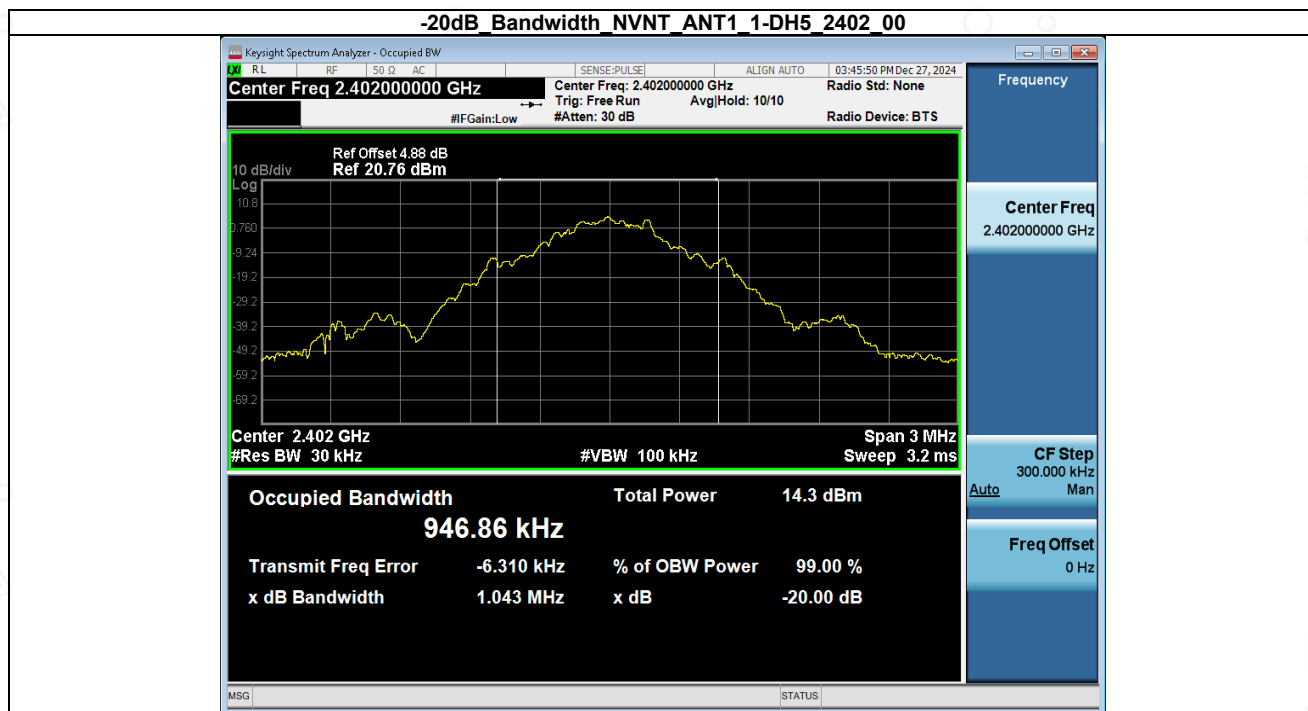
Duty Cycle_NVNT_ANT1_3-DH5_2480



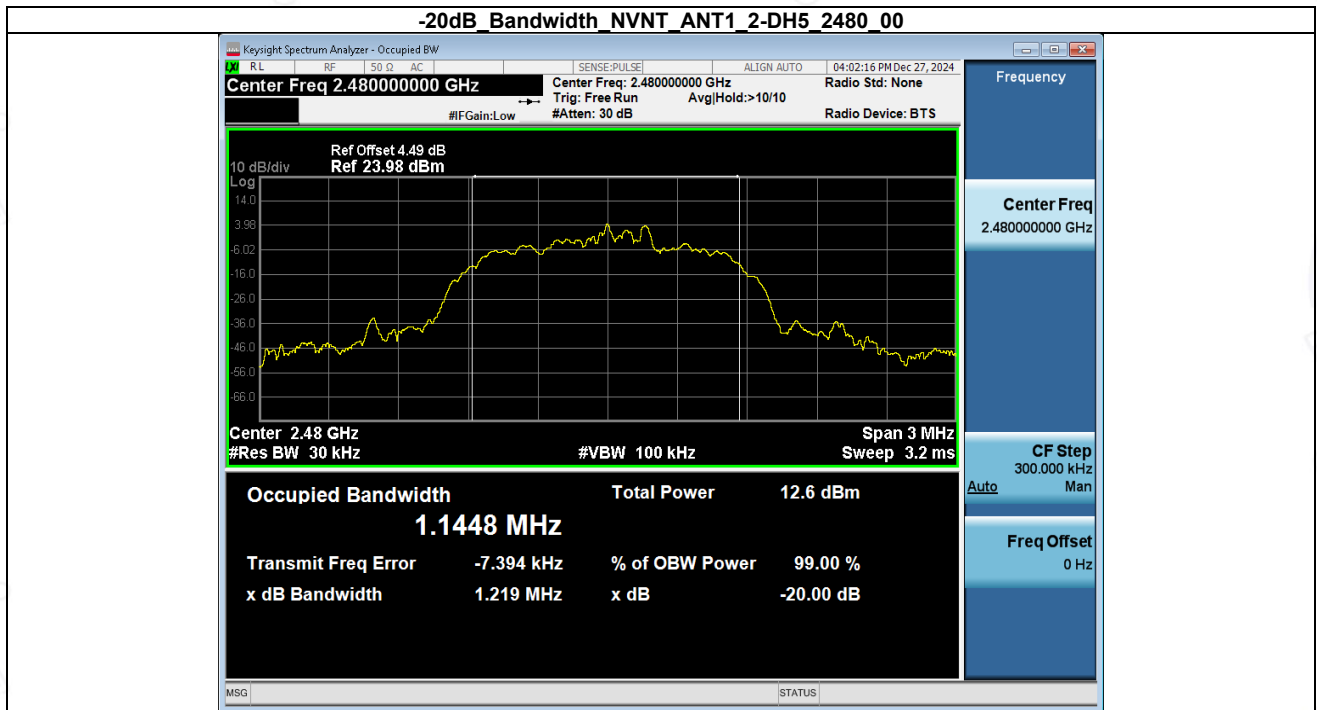


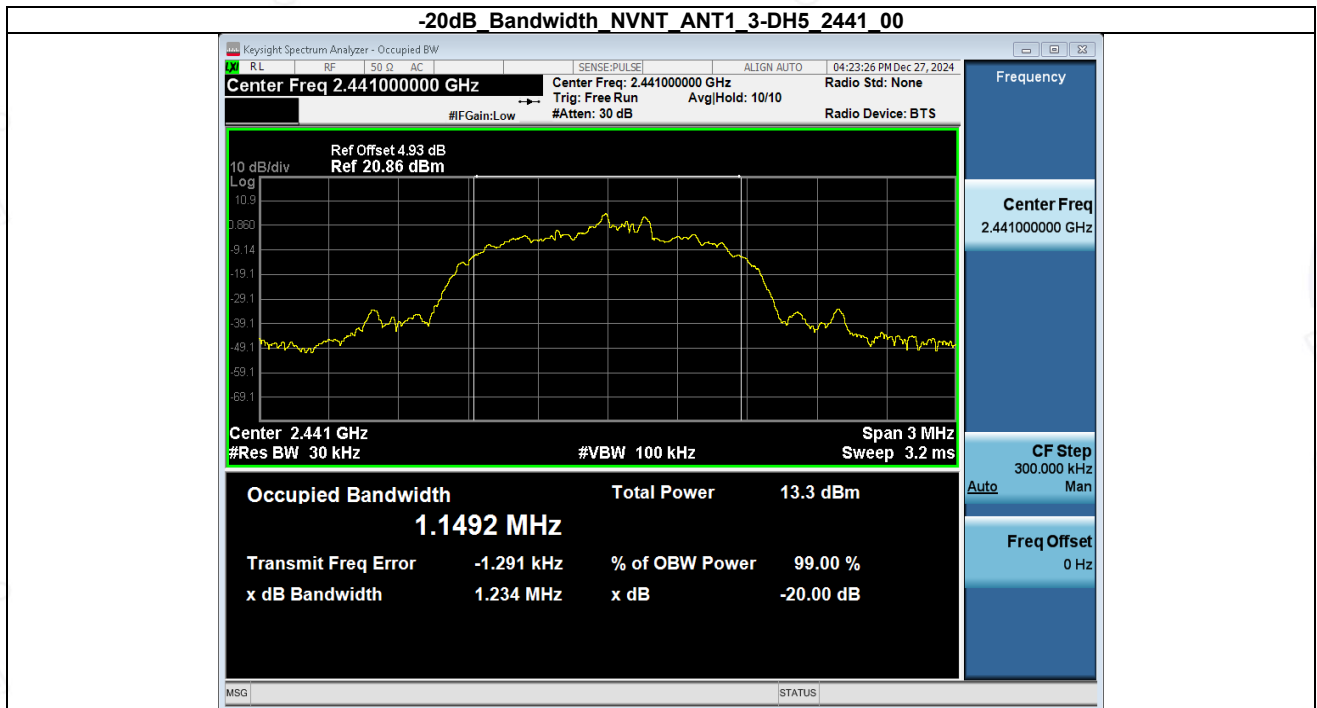
2. -20dB Bandwidth

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	1.046	Yes
NVNT	ANT1	1-DH5	2480.00	1.051	Yes
NVNT	ANT1	2-DH5	2402.00	1.191	Yes
NVNT	ANT1	2-DH5	2441.00	1.195	Yes
NVNT	ANT1	2-DH5	2480.00	1.219	Yes
NVNT	ANT1	3-DH5	2402.00	1.247	Yes
NVNT	ANT1	3-DH5	2441.00	1.234	Yes
NVNT	ANT1	3-DH5	2480.00	1.242	Yes







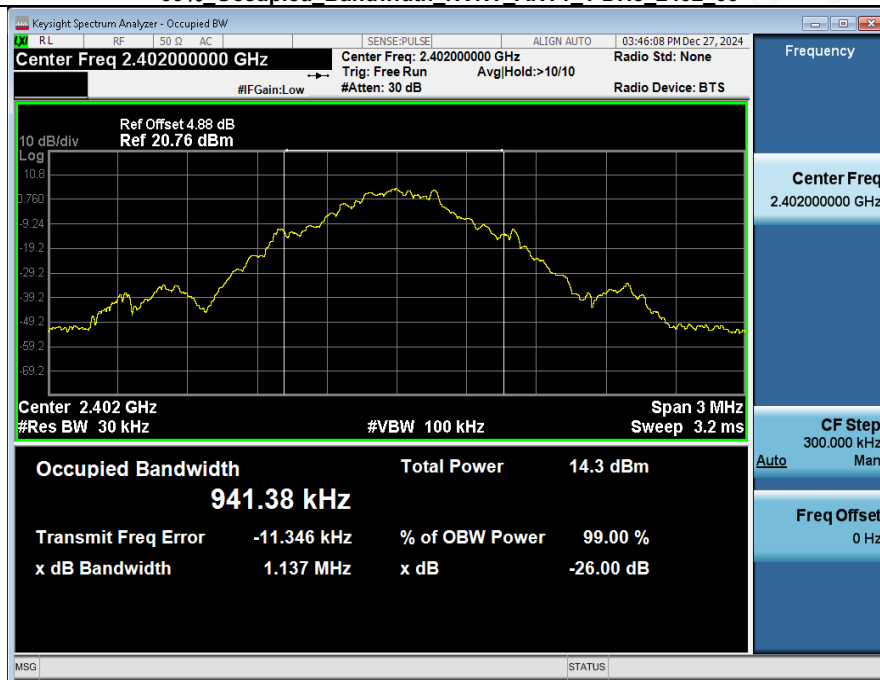




3. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	1-DH5	2402.00	0.941
NVNT	ANT1	1-DH5	2441.00	0.929
NVNT	ANT1	1-DH5	2480.00	0.930
NVNT	ANT1	2-DH5	2402.00	1.139
NVNT	ANT1	2-DH5	2441.00	1.134
NVNT	ANT1	2-DH5	2480.00	1.137
NVNT	ANT1	3-DH5	2402.00	1.152
NVNT	ANT1	3-DH5	2441.00	1.147
NVNT	ANT1	3-DH5	2480.00	1.146

99% Occupied Bandwidth NVNT ANT1 1-DH5 2402_00



99% Occupied Bandwidth NVNT ANT1 1-DH5 2441_00

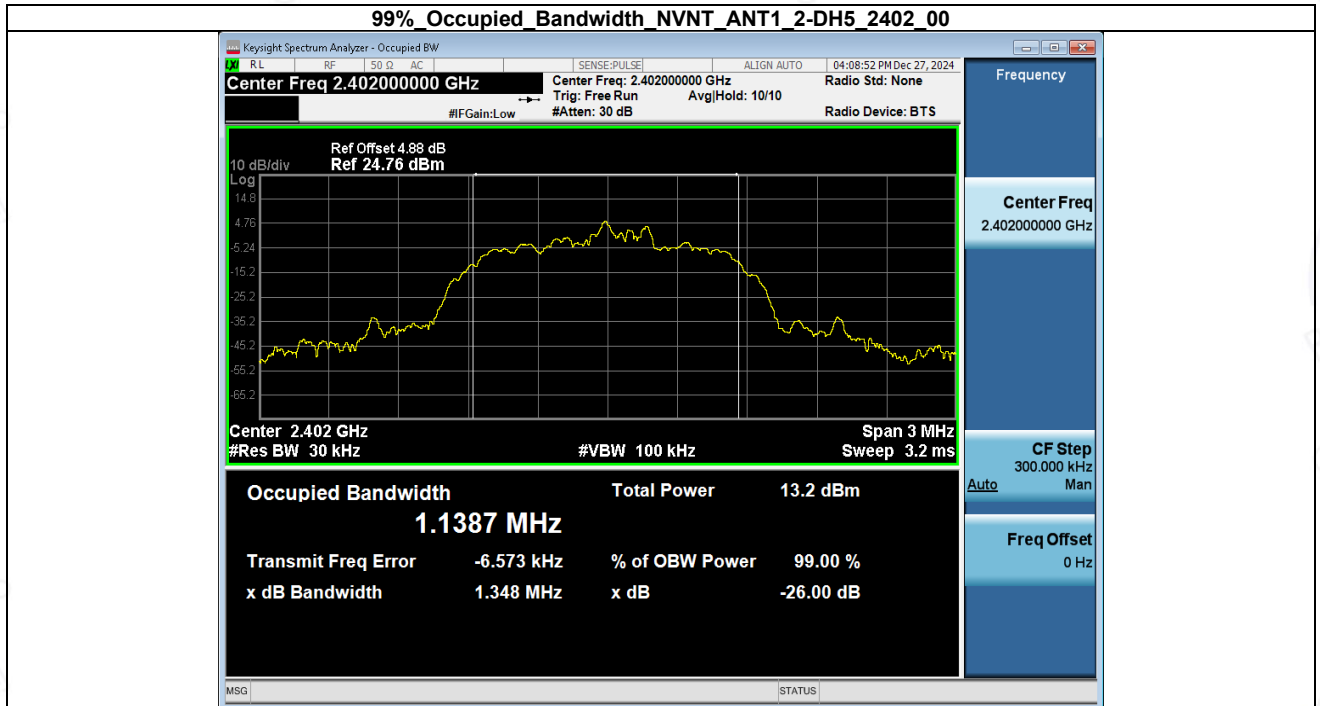


99% Occupied Bandwidth NVNT ANT1 1-DH5 2480_00





99% Occupied Bandwidth_NVNT_ANT1_2-DH5_2402_00

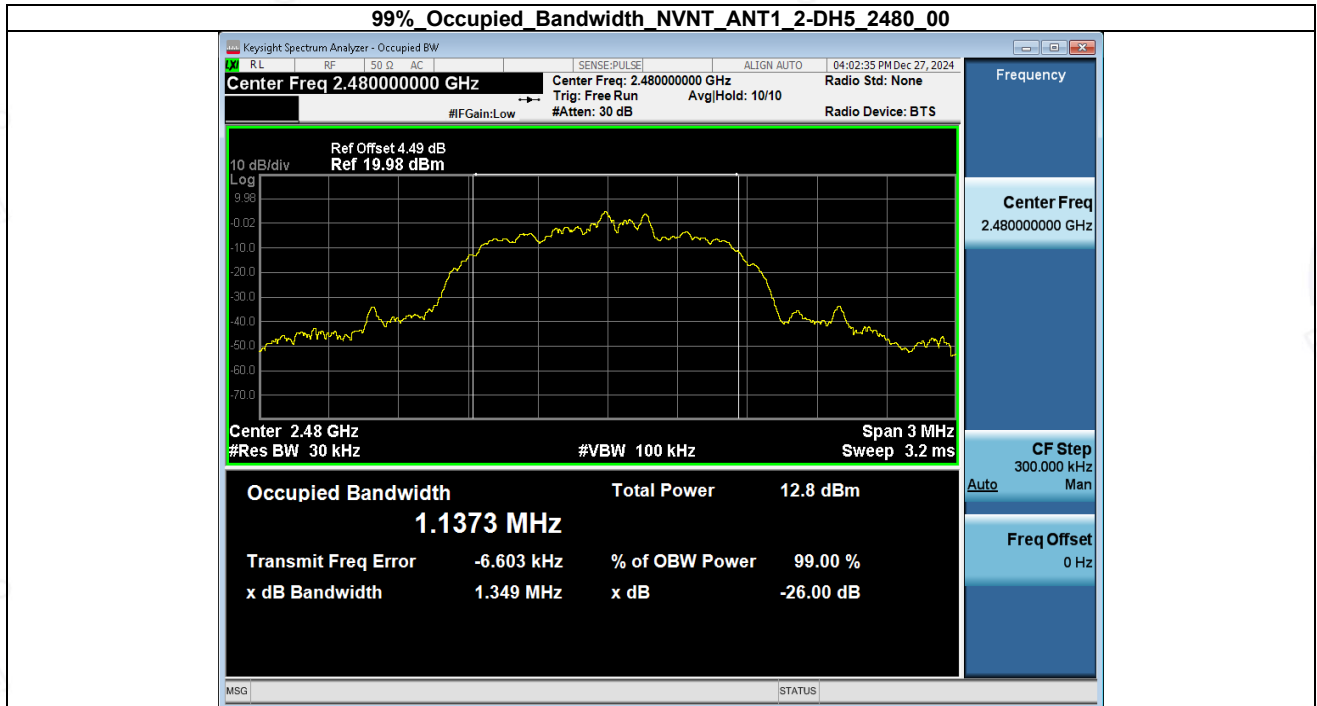


99% Occupied Bandwidth_NVNT_ANT1_2-DH5_2441_00





99% Occupied Bandwidth_NVNT_ANT1_2-DH5_2480_00

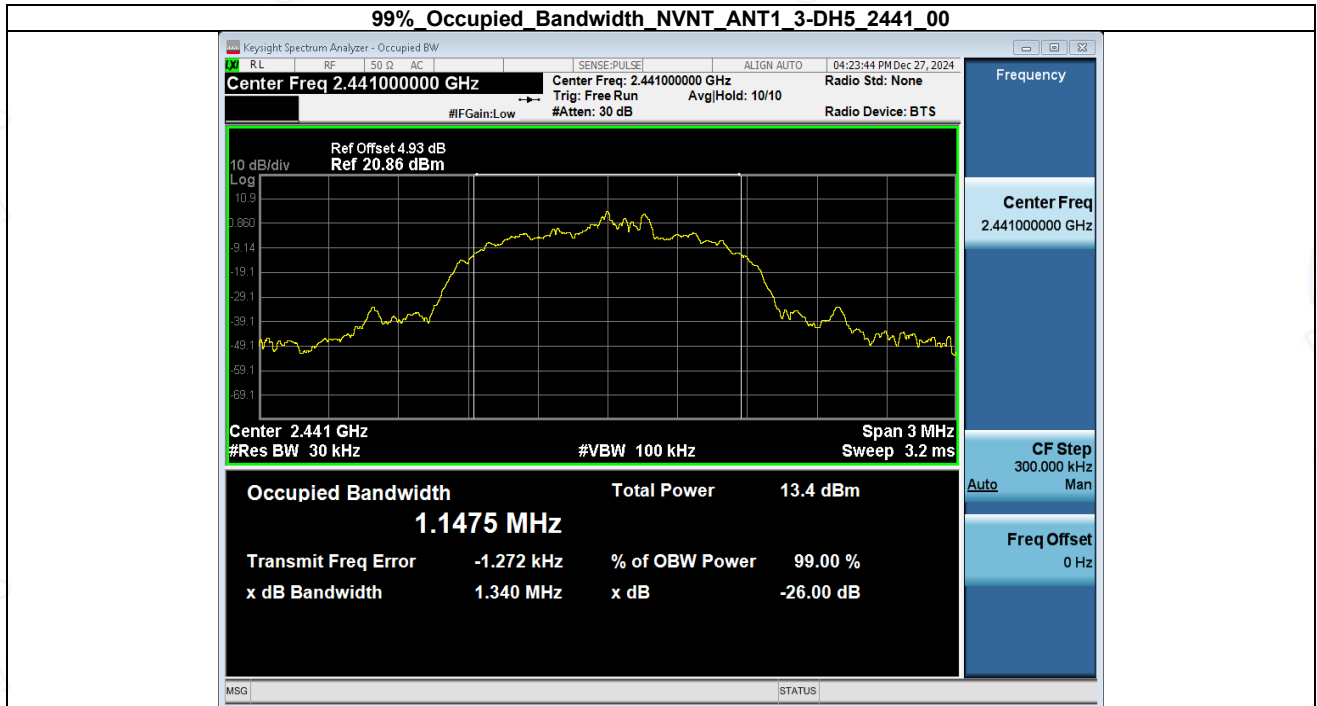


99% Occupied Bandwidth_NVNT_ANT1_3-DH5_2402_00





99% Occupied Bandwidth_NVNT_ANT1_3-DH5_2441_00



99% Occupied Bandwidth_NVNT_ANT1_3-DH5_2480_00





4. 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	6.94	4.94	125	Pass
NVNT	ANT1	1-DH5	2441.00	7.17	5.22	125	Pass
NVNT	ANT1	1-DH5	2480.00	6.43	4.40	125	Pass
NVNT	ANT1	2-DH5	2402.00	6.92	4.91	125	Pass
NVNT	ANT1	2-DH5	2441.00	7.13	5.17	125	Pass
NVNT	ANT1	2-DH5	2480.00	6.39	4.35	125	Pass
NVNT	ANT1	3-DH5	2402.00	6.91	4.91	125	Pass
NVNT	ANT1	3-DH5	2441.00	7.14	5.18	125	Pass
NVNT	ANT1	3-DH5	2480.00	6.39	4.36	125	Pass

Peak_Output_Power_NVNT_ANT1_1-DH5_2402_00

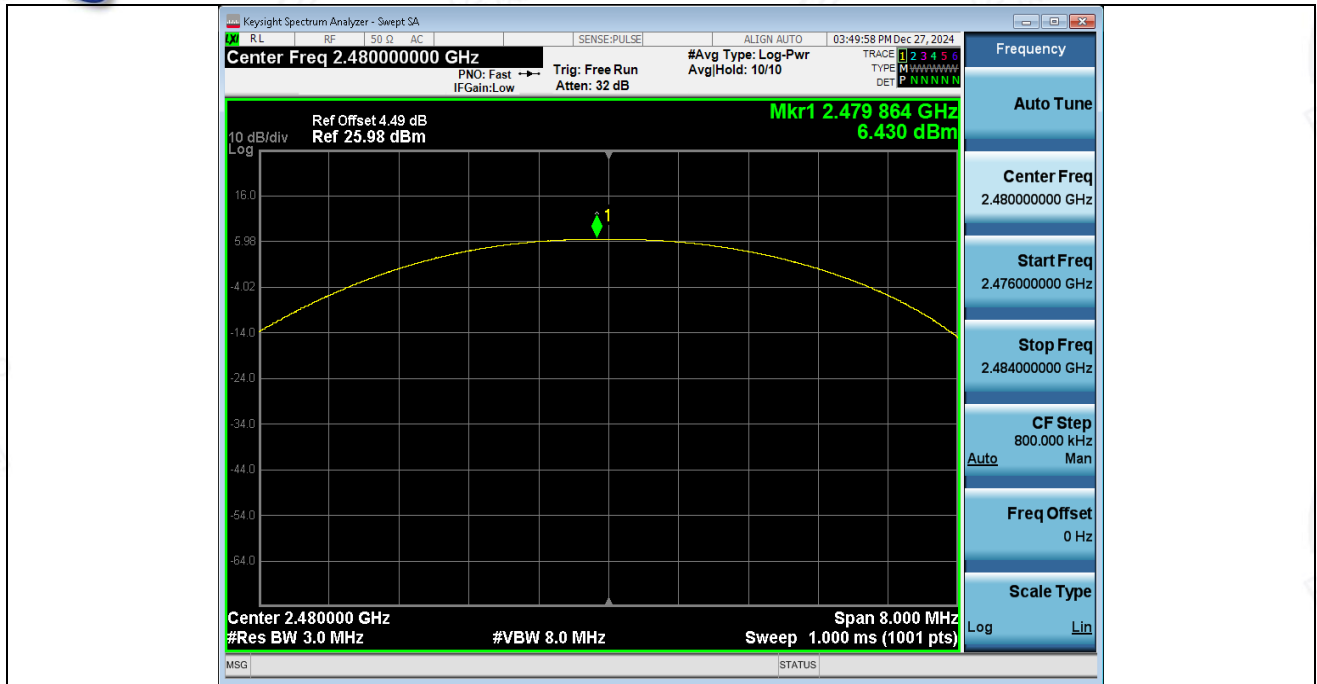


Peak_Output_Power_NVNT_ANT1_1-DH5_2441_00

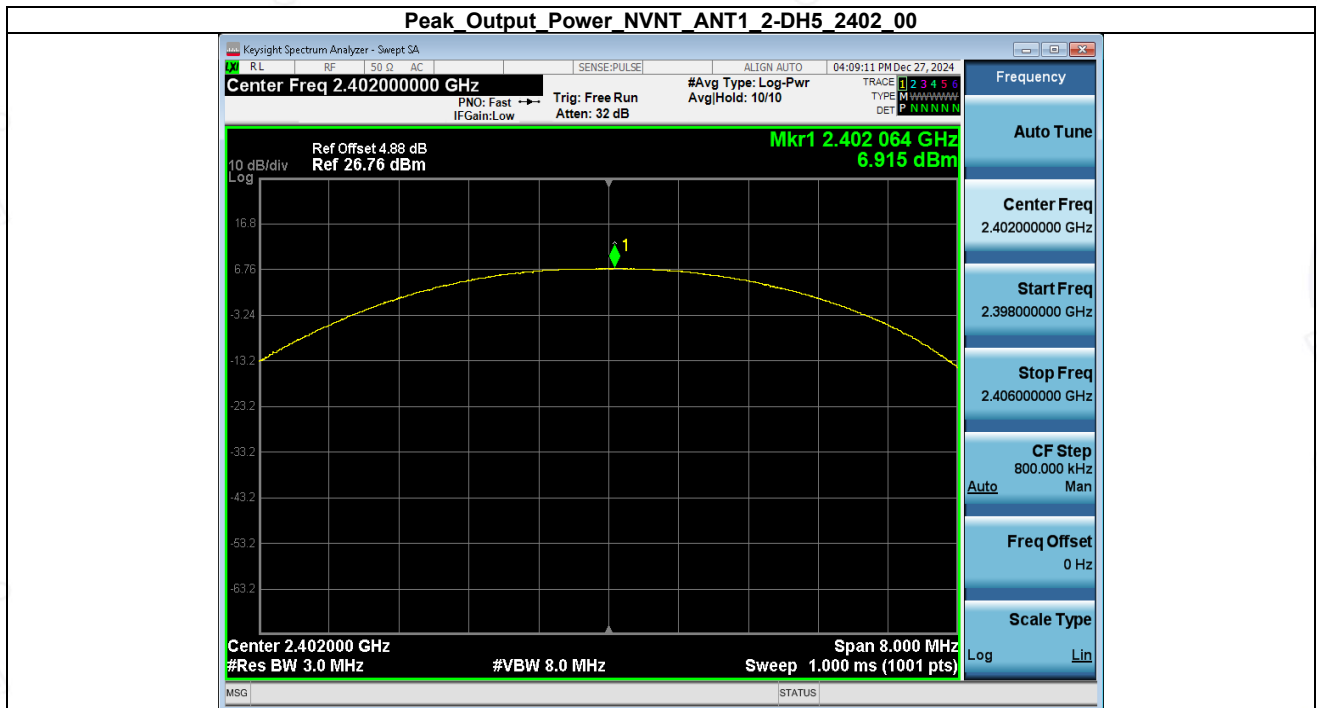


Peak_Output_Power_NVNT_ANT1_1-DH5_2480_00



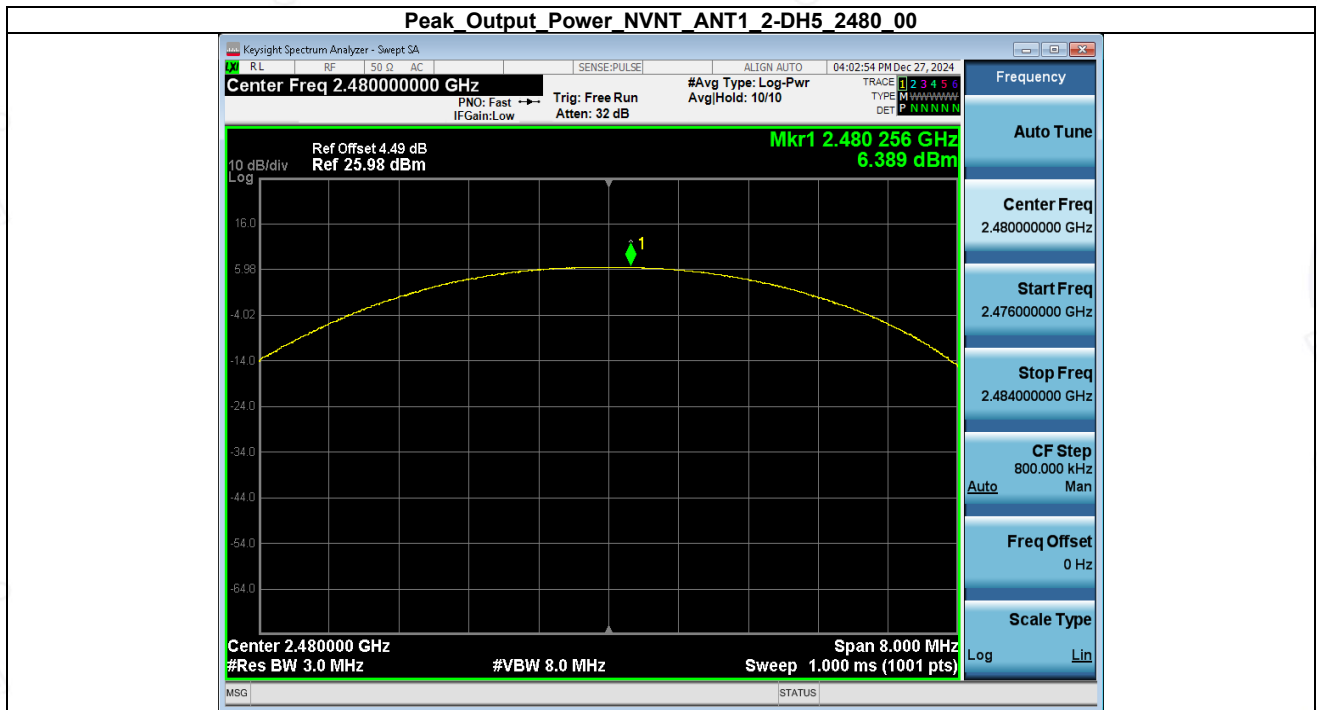
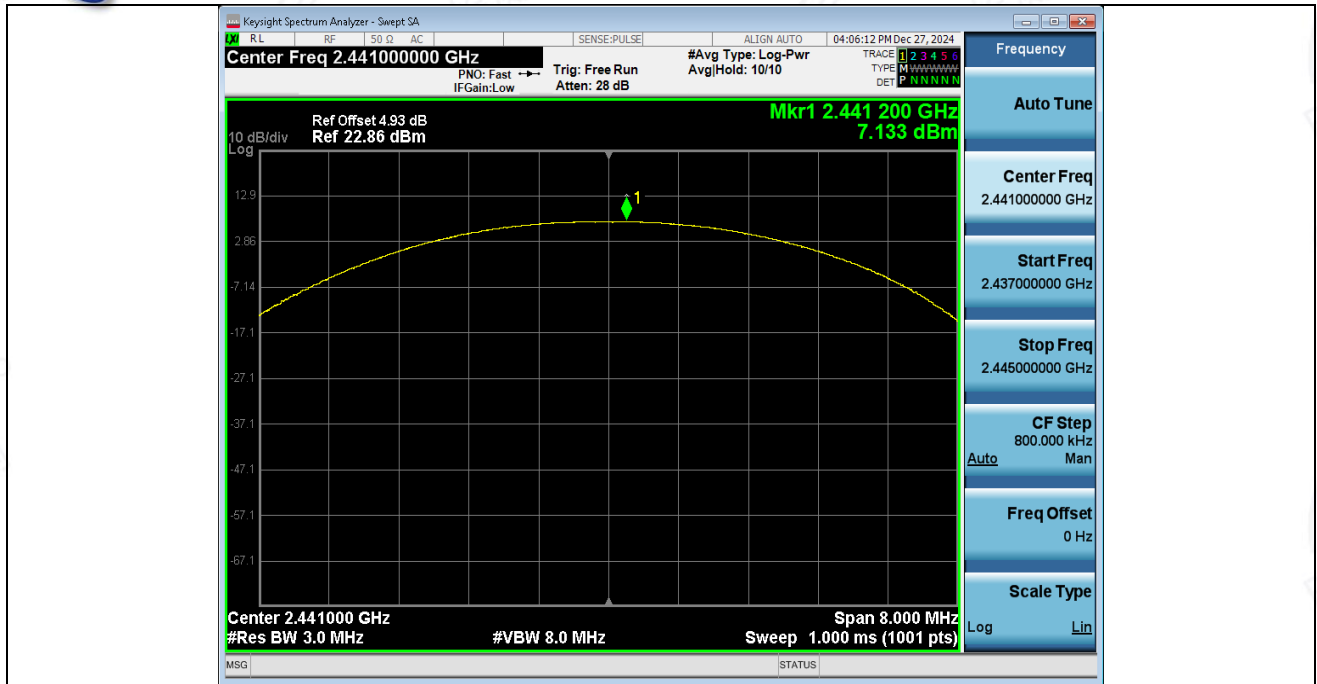


Peak_Output_Power_NVNT_ANT1_2-DH5_2402_00



Peak_Output_Power_NVNT_ANT1_2-DH5_2441_00



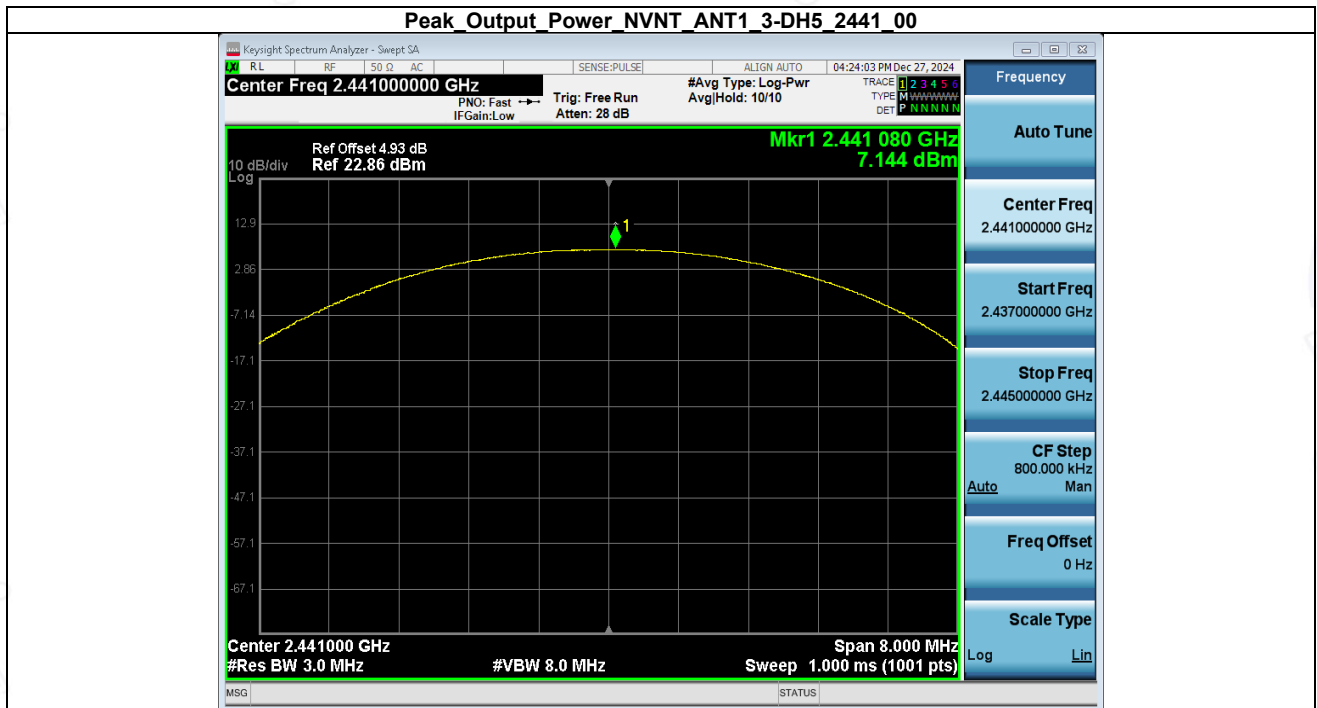


Peak_Output_Power_NVNT_ANT1_3-DH5_2402_00



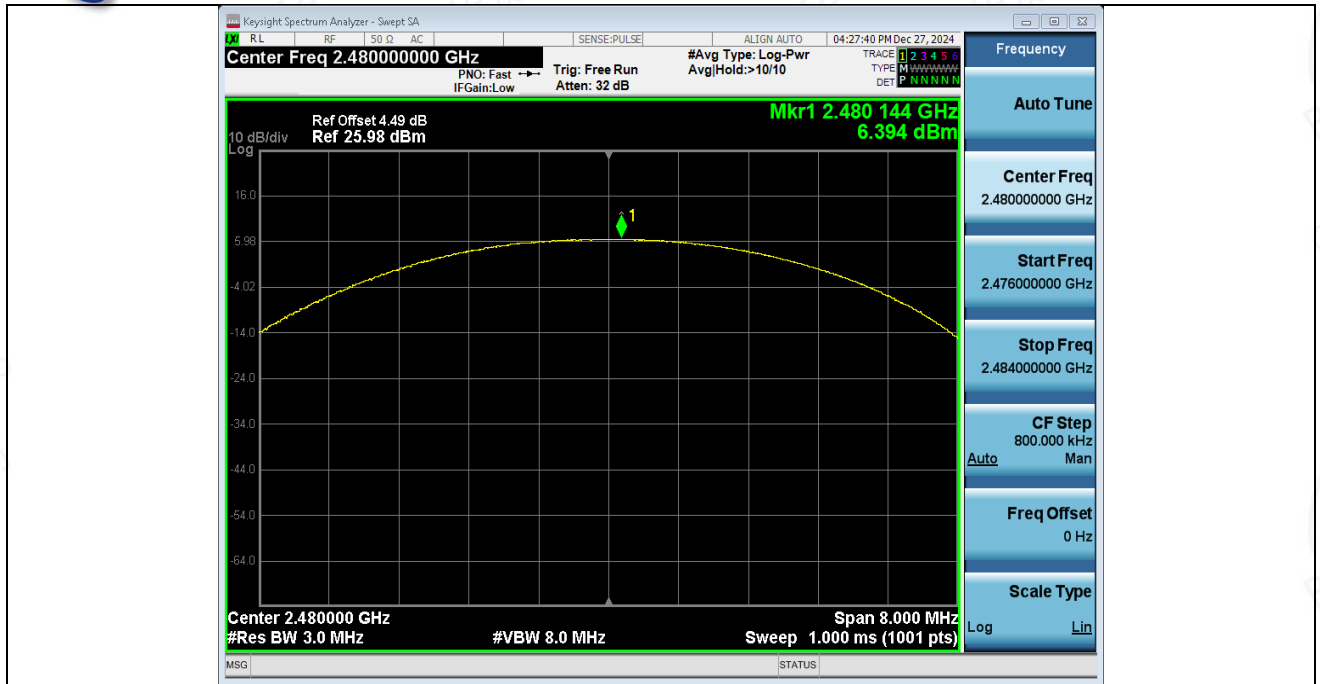


Peak_Output_Power_NVNT_ANT1_3-DH5_2441_00



Peak_Output_Power_NVNT_ANT1_3-DH5_2480_00





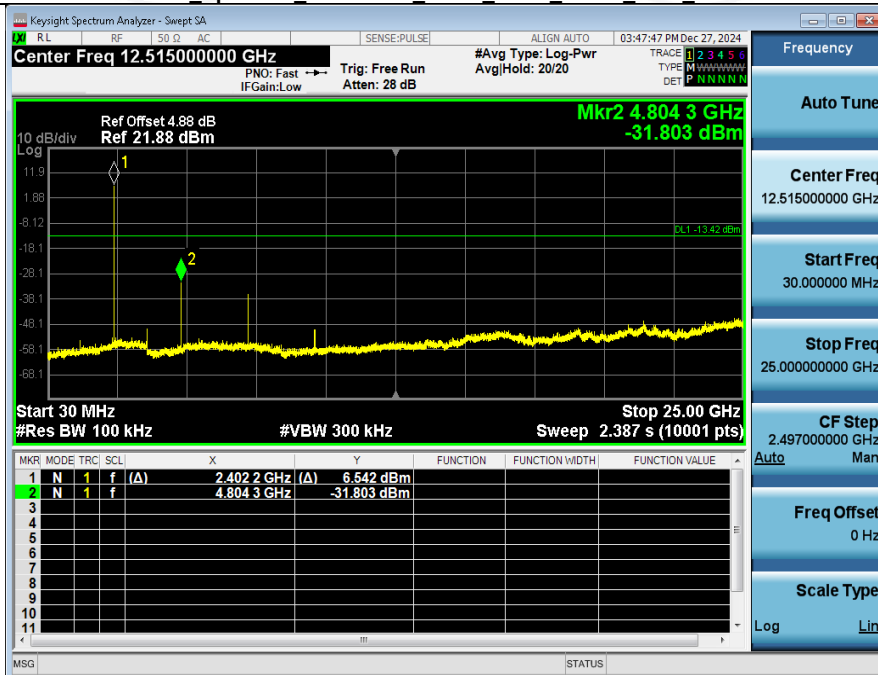
5. Spurious Emissions

Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1-DH5	2402.00	6.585	-31.803	-13.415	Pass
NVNT	ANT1	1-DH5	2441.00	6.827	-33.169	-13.173	Pass
NVNT	ANT1	1-DH5	2480.00	5.991	-33.019	-14.009	Pass
NVNT	ANT1	2-DH5	2402.00	6.551	-30.804	-13.449	Pass
NVNT	ANT1	2-DH5	2441.00	6.737	-36.817	-13.263	Pass
NVNT	ANT1	2-DH5	2480.00	6.040	-40.693	-13.960	Pass
NVNT	ANT1	3-DH5	2402.00	6.599	-35.854	-13.401	Pass
NVNT	ANT1	3-DH5	2441.00	6.659	-39.118	-13.341	Pass
NVNT	ANT1	3-DH5	2480.00	6.009	-34.664	-13.991	Pass

1 Reference Level NVNT ANT1 1-DH5 2402 00



2 Spurious Emissions NVNT ANT1 1-DH5 2402 00

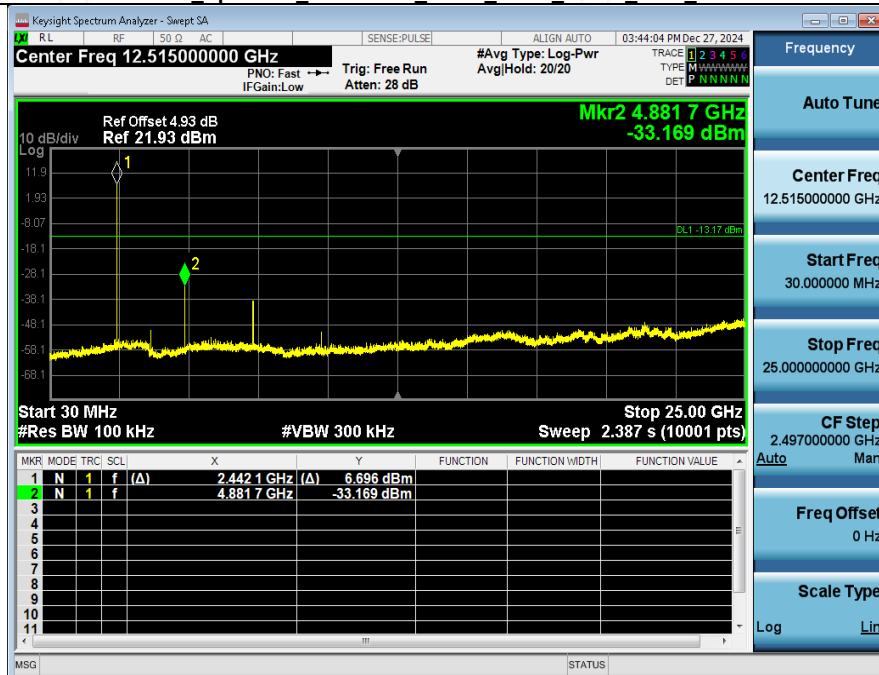


1 Reference Level NVNT ANT1 1-DH5 2441 00





2_Spurious_Emissions_NVNT_ANT1_1-DH5_2441_00

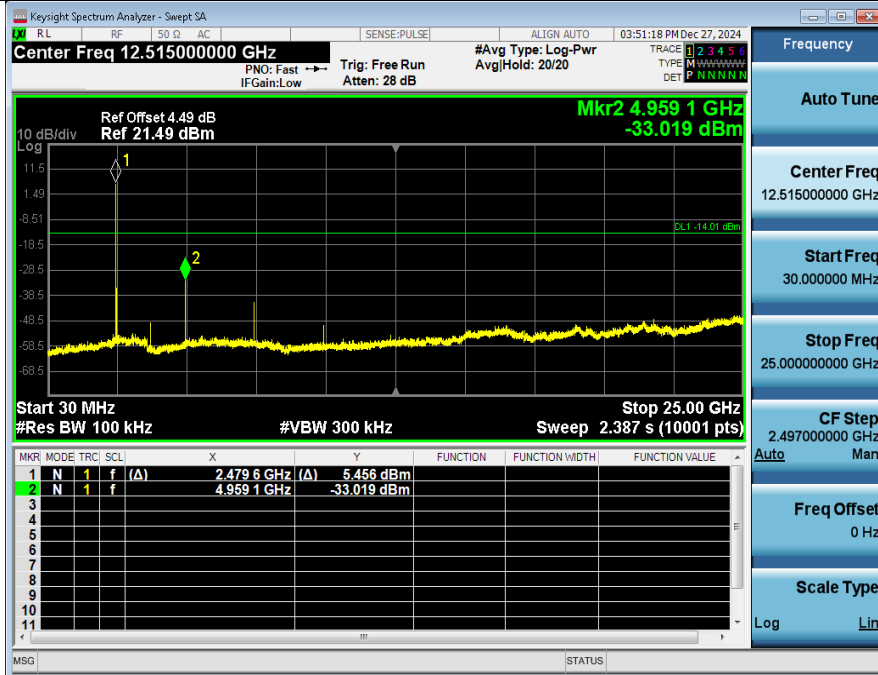


1_Reference_Level_NVNT_ANT1_1-DH5_2480_00





2 Spurious Emissions NVNT_ANT1_1-DH5_2480_00

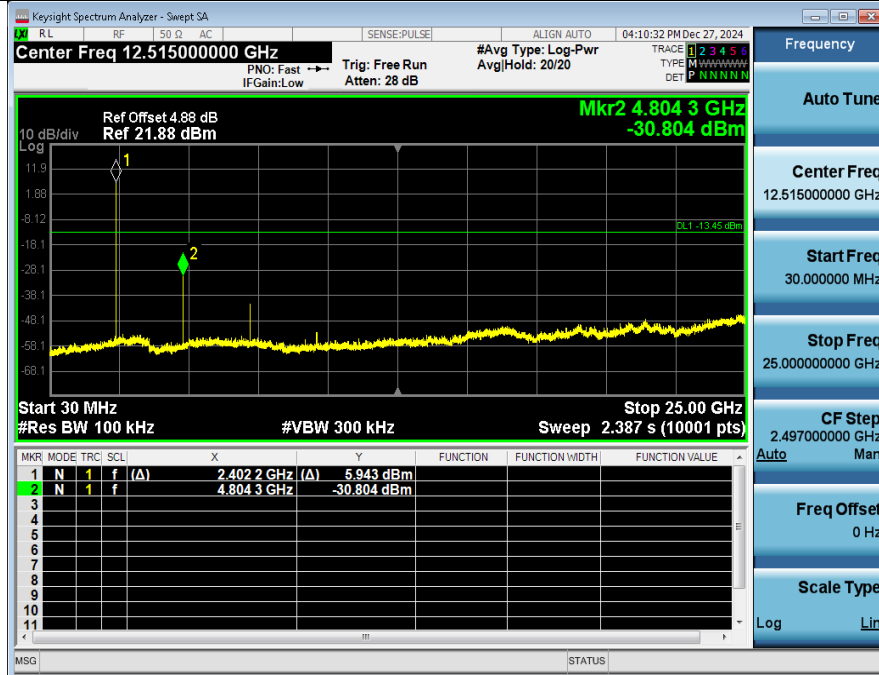


1 Reference Level NVNT_ANT1_2-DH5_2402_00





2_Spurious_Emissions_NVNT_ANT1_2-DH5_2402_00



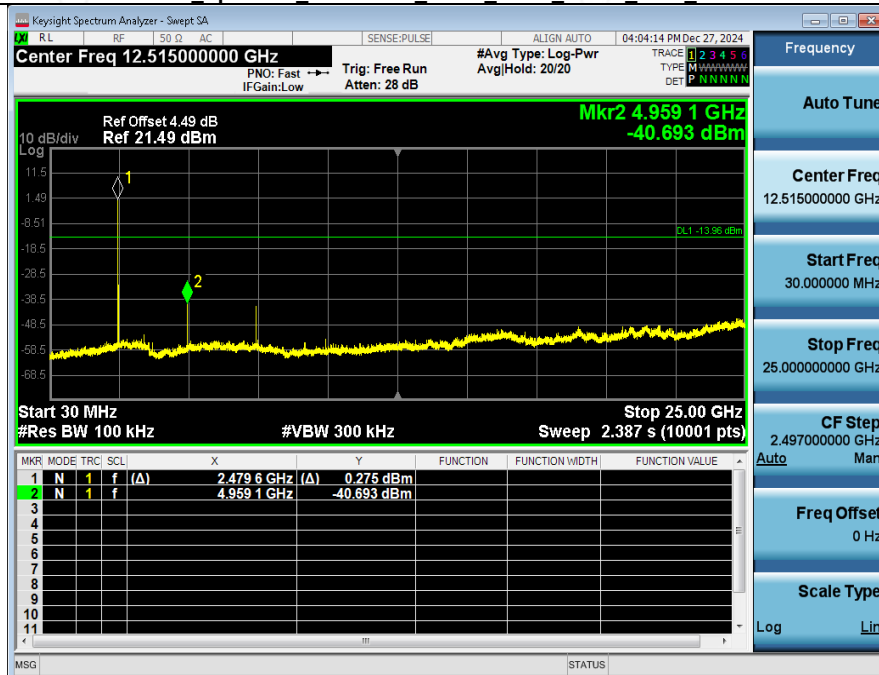
1_Reference_Level_NVNT_ANT1_2-DH5_2441_00







2_Spurious_Emissions_NVNT_ANT1_2-DH5_2480_00

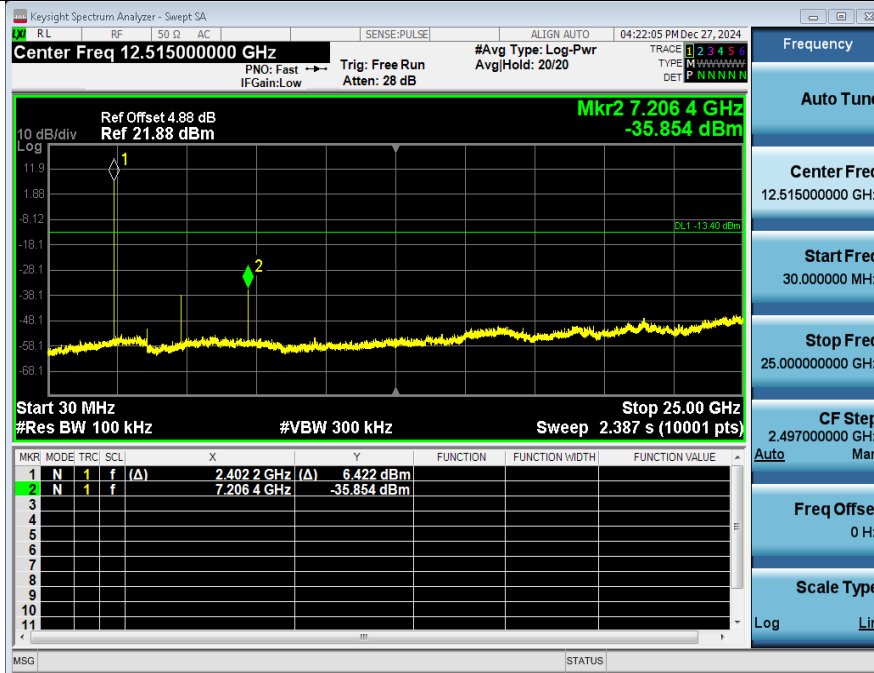


1_Reference_Level_NVNT_ANT1_3-DH5_2402_00





2_Spurious_Emissions_NVNT_ANT1_3-DH5_2402_00

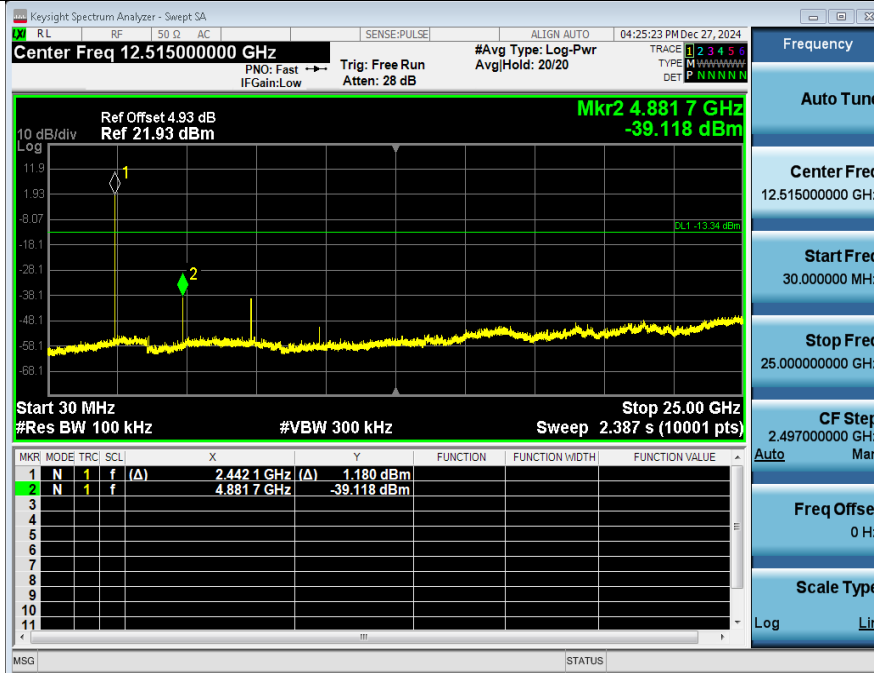


1_Reference_Level_NVNT_ANT1_3-DH5_2441_00





2_Spurious_Emissions_NVNT_ANT1_3-DH5_2441_00

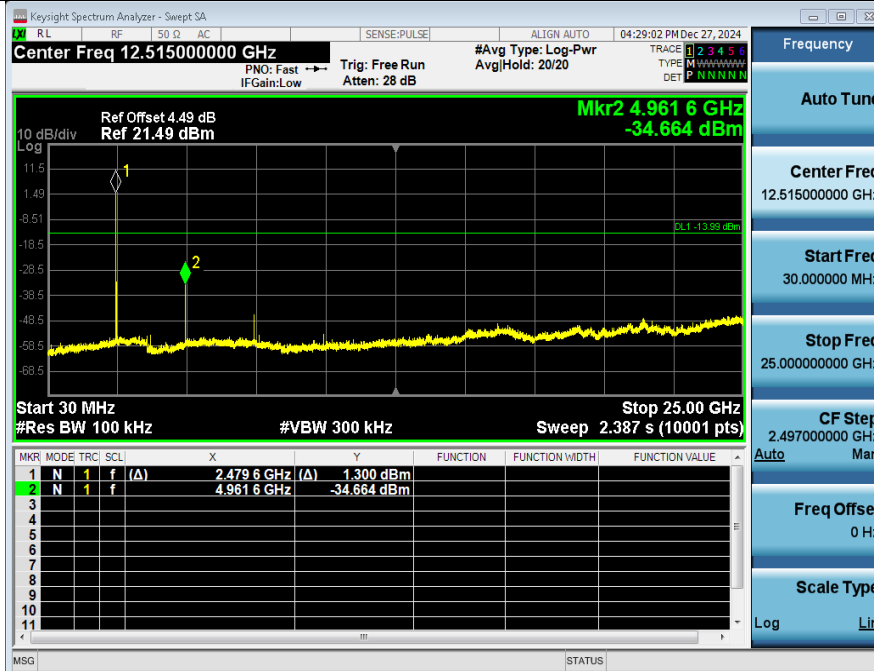


1_Reference_Level_NVNT_ANT1_3-DH5_2480_00





2 Spurious Emissions NVNT ANT1 3-DH5 2480 00



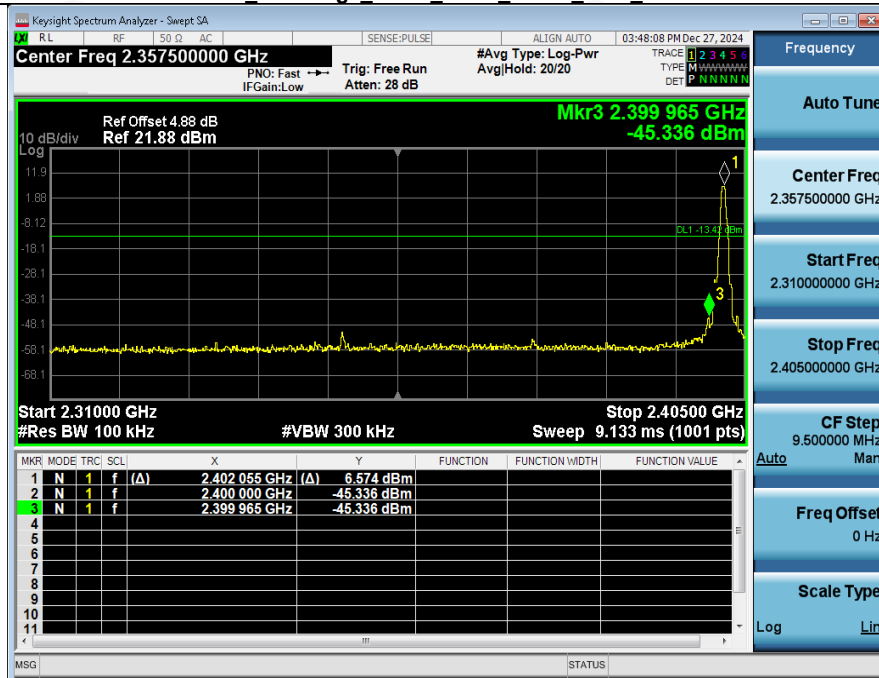
6. Bandedge

Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Bandedge MAX.Value	Limit	Result
NVNT	ANT1	1-DH5	2402.00	6.585	-45.336	-13.415	Pass
NVNT	ANT1	1-DH5	Hopping_LCH	6.692	-50.619	-13.308	Pass
NVNT	ANT1	1-DH5	2480.00	5.991	-54.157	-14.009	Pass
NVNT	ANT1	1-DH5	Hopping_HCH	6.413	-54.144	-13.587	Pass
NVNT	ANT1	2-DH5	2402.00	6.551	-49.556	-13.449	Pass
NVNT	ANT1	2-DH5	Hopping_LCH	6.625	-53.557	-13.375	Pass
NVNT	ANT1	2-DH5	2480.00	6.040	-54.884	-13.960	Pass
NVNT	ANT1	2-DH5	Hopping_HCH	6.337	-55.163	-13.663	Pass
NVNT	ANT1	3-DH5	2402.00	6.599	-45.354	-13.401	Pass
NVNT	ANT1	3-DH5	Hopping_LCH	6.817	-53.072	-13.183	Pass
NVNT	ANT1	3-DH5	2480.00	6.009	-53.713	-13.991	Pass
NVNT	ANT1	3-DH5	Hopping_HCH	6.225	-54.842	-13.775	Pass

1 Reference Level NVNT ANT1 1-DH5 2402_00

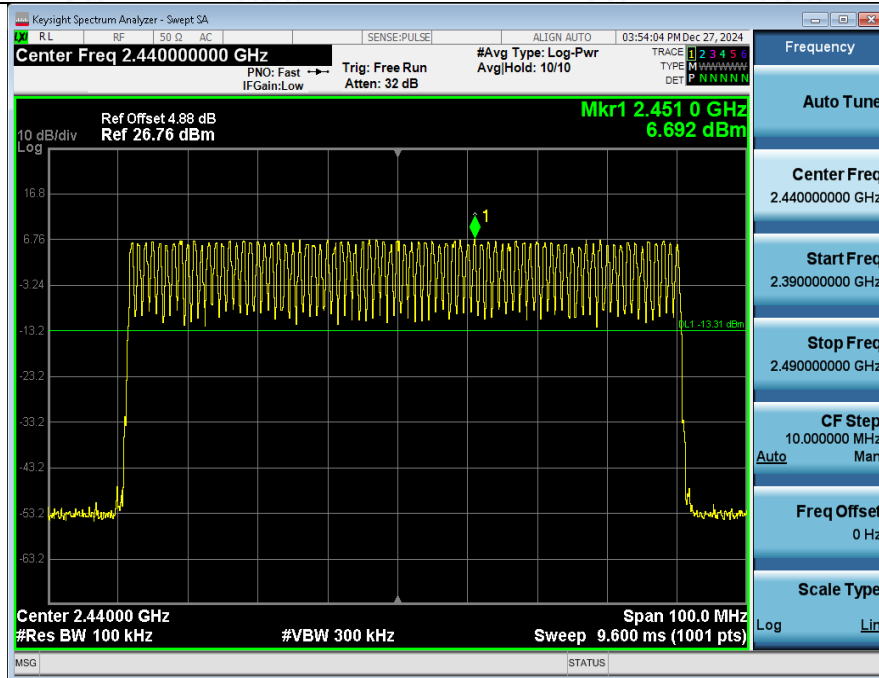


2 Bandedge NVNT ANT1 1-DH5 2402_00

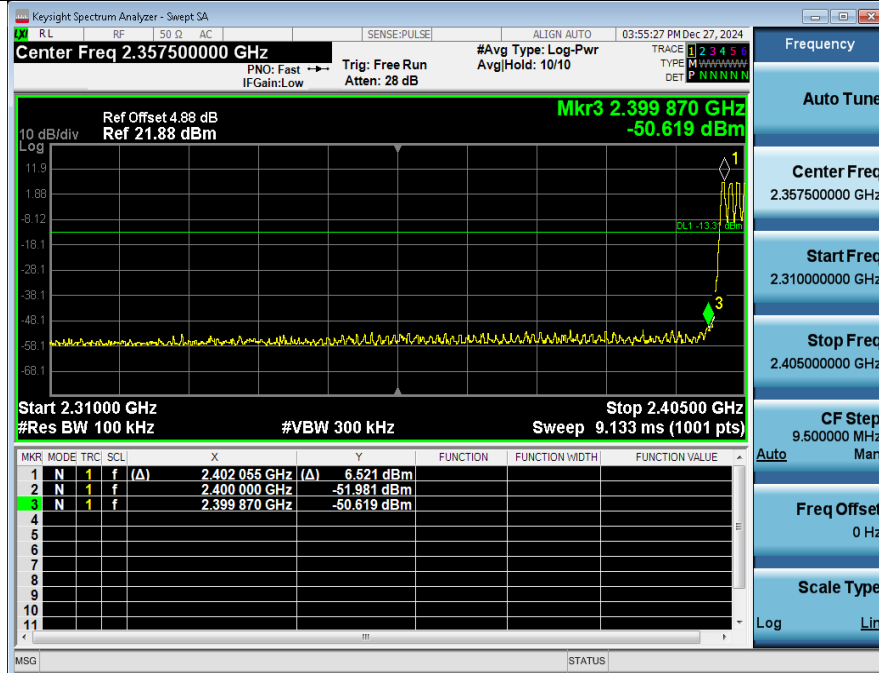


1 Reference Level Hopping NVNT ANT1 1-DH5 Hopping





2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH5_Hopping

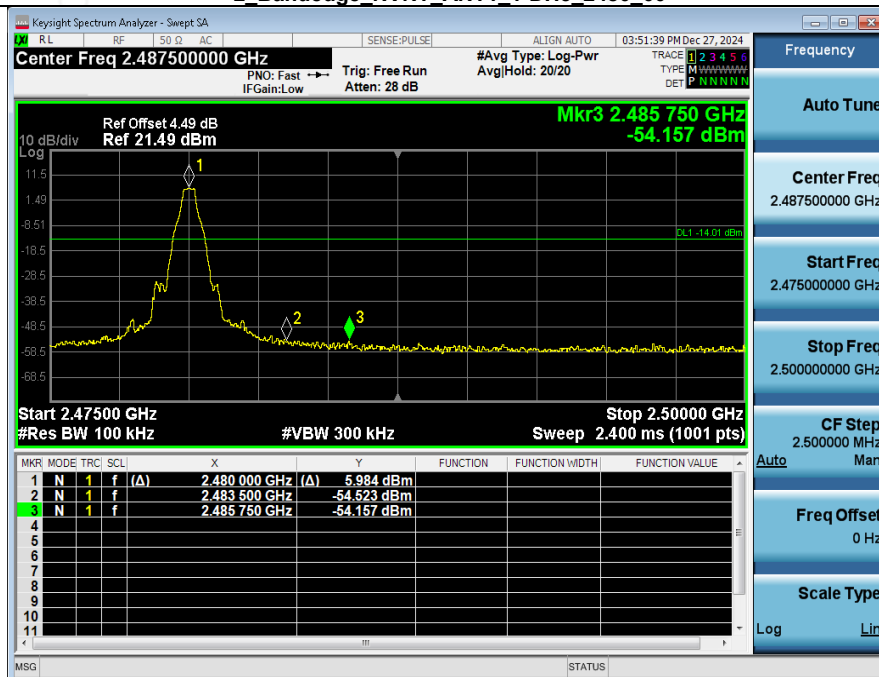


1_Reference_Level_NVNT_ANT1_1-DH5_2480_00



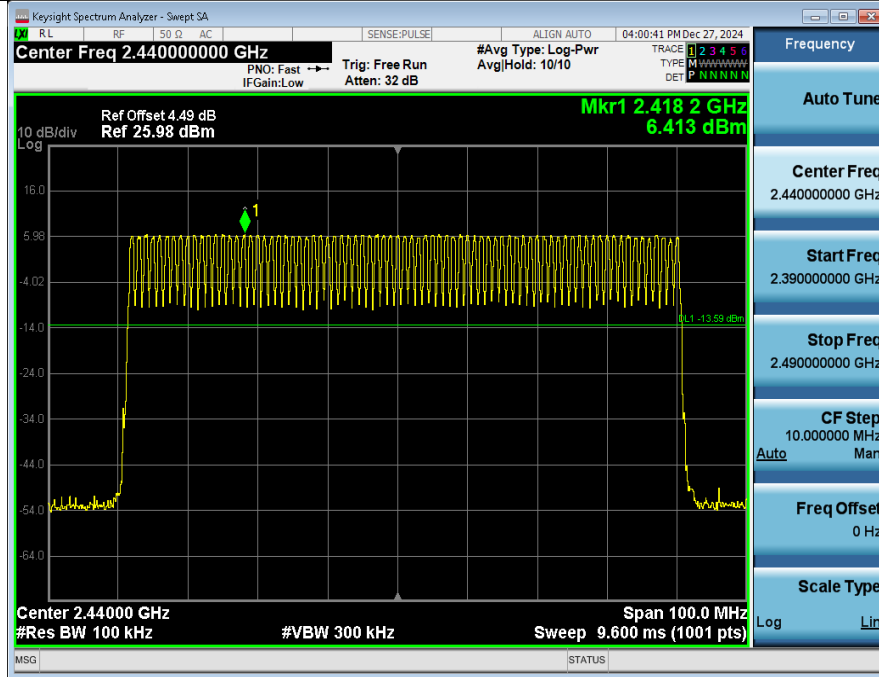


2_Bandedge_NVNT_ANT1_1-DH5_2480_00

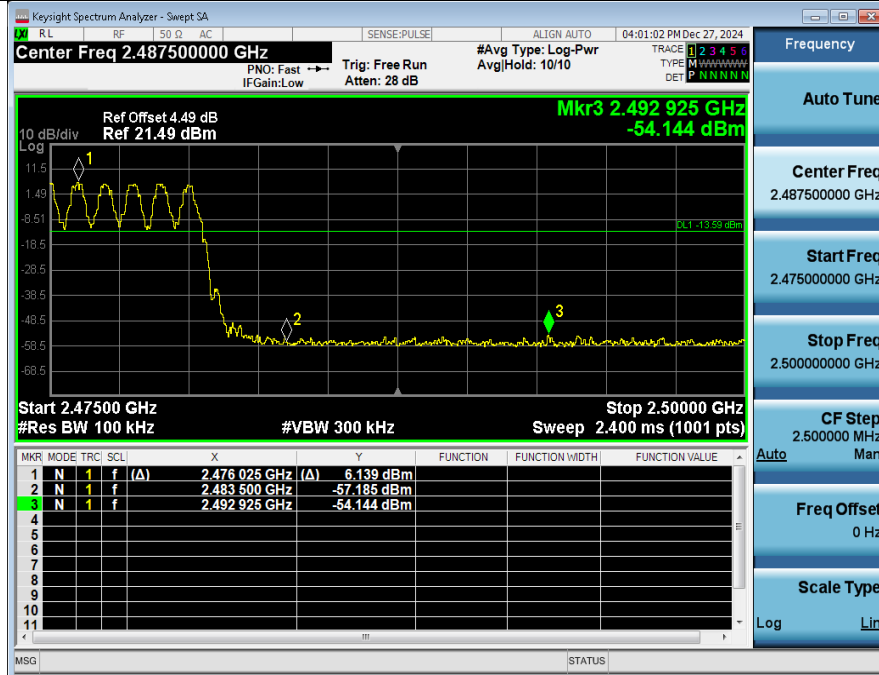


1_Reference_Level_Hopping_NVNT_ANT1_1-DH5_Hopping





2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH5_Hopping

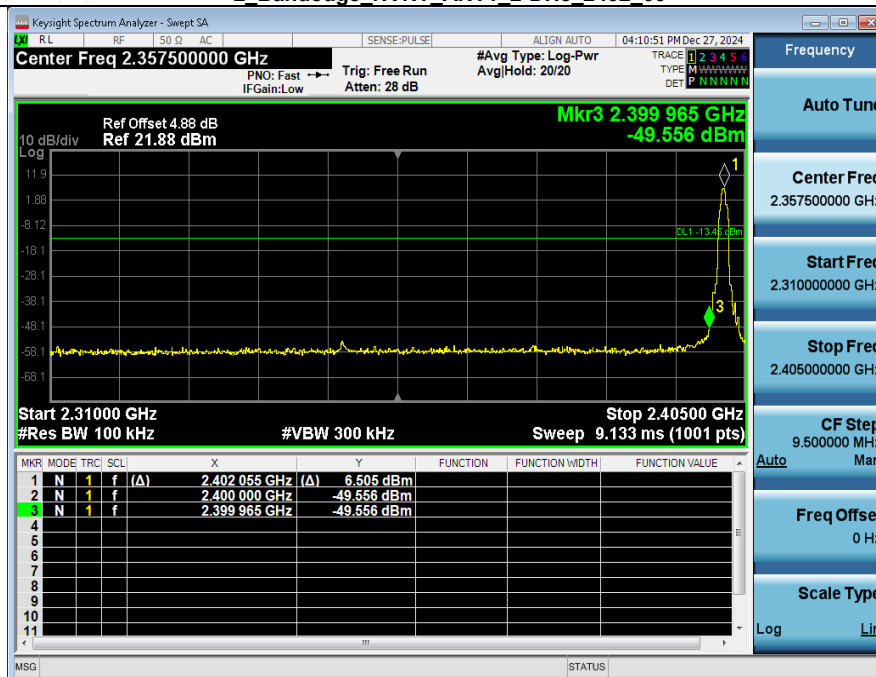


1_Reference_Level_NVNT_ANT1_2-DH5_2402_00



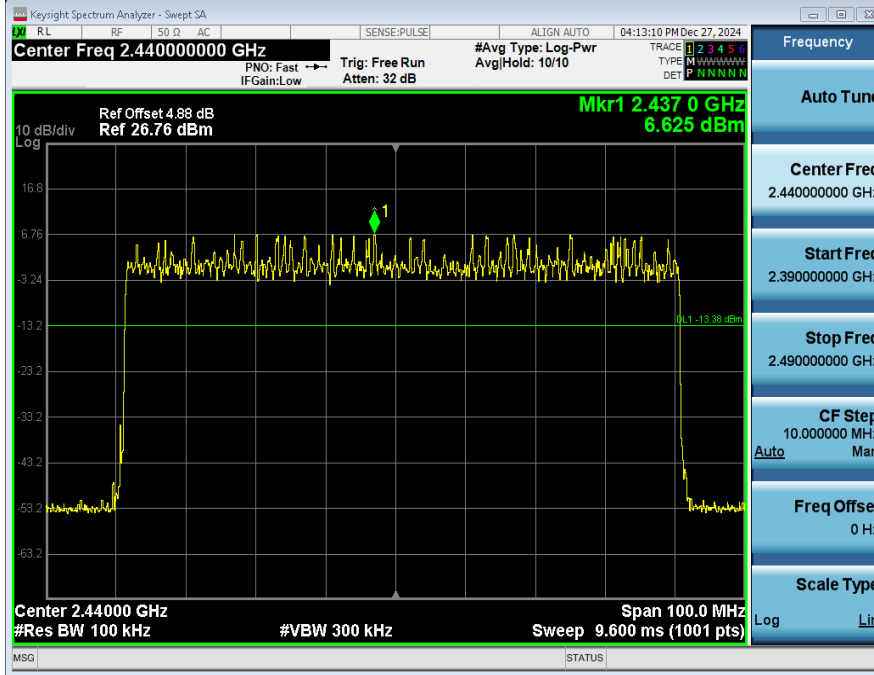


2_Bandedge_NVNT_ANT1_2-DH5_2402_00

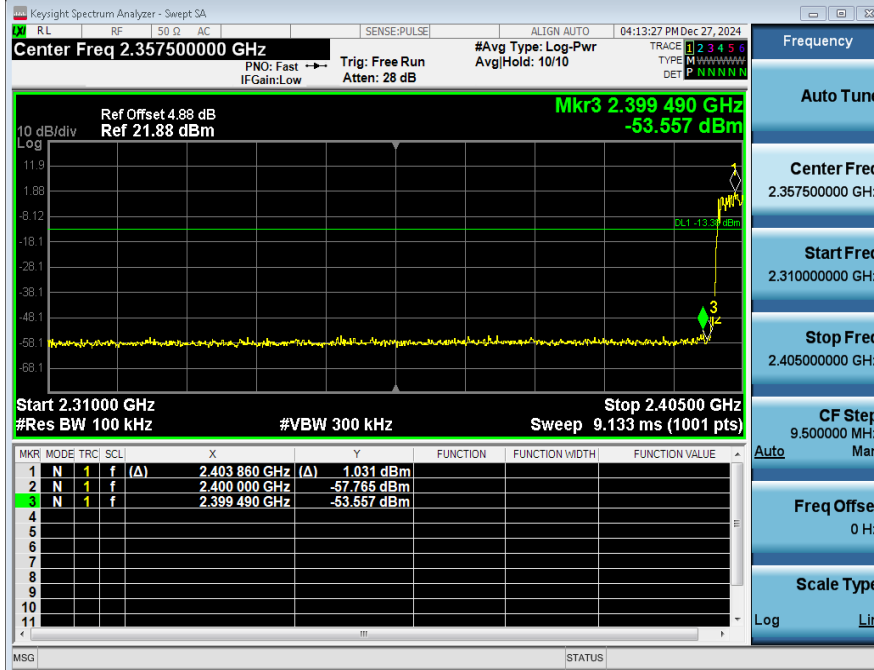


1_Reference_Level_Hopping_NVNT_ANT1_2-DH5_Hopping





2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH5_Hopping

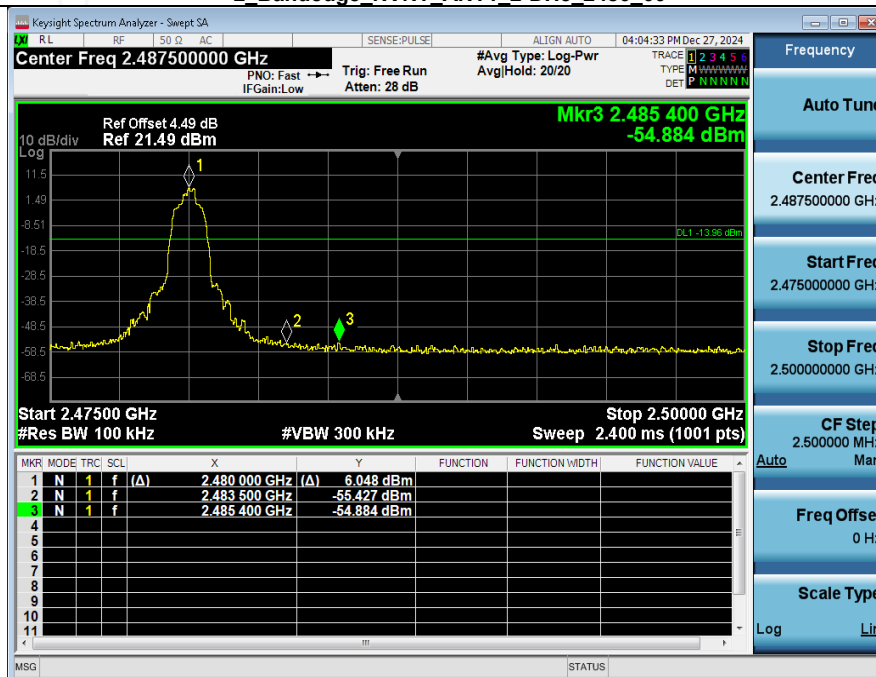


1_Reference_Level_NVNT_ANT1_2-DH5_2480_00



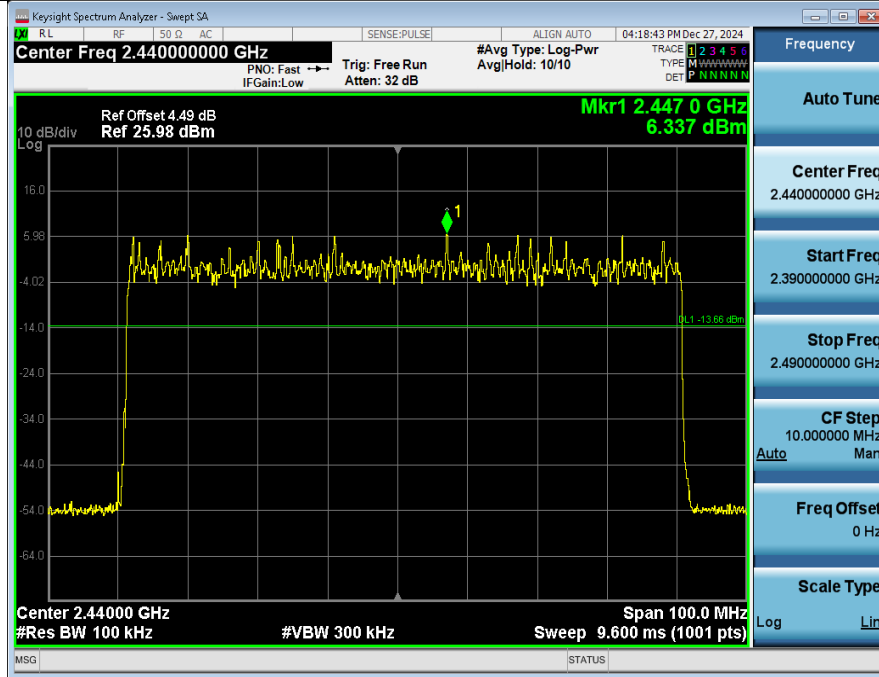


2_Bandedge_NVNT_ANT1_2-DH5_2480_00

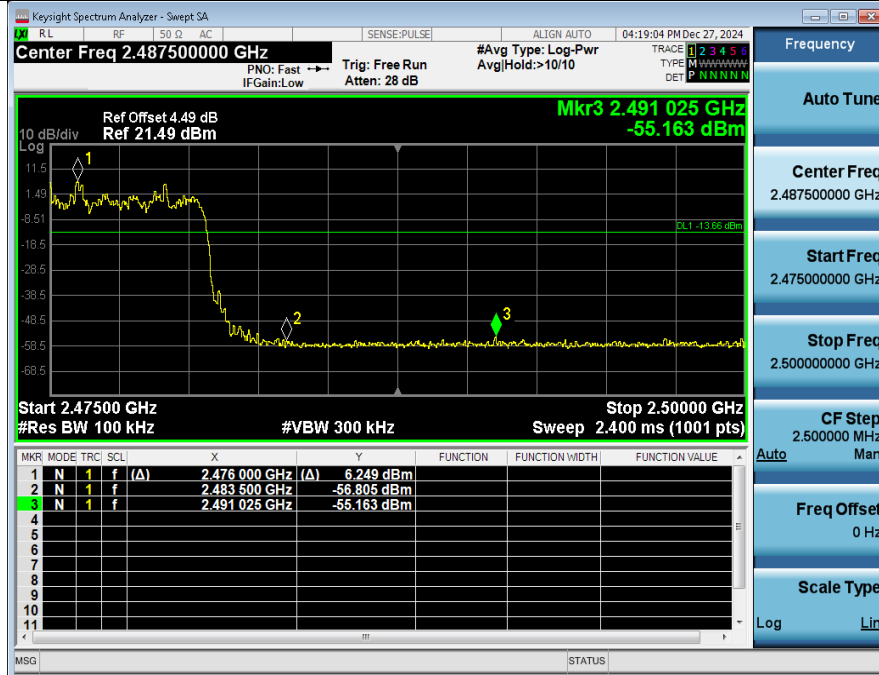


1_Reference_Level_Hopping_NVNT_ANT1_2-DH5_Hopping





2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH5_Hopping

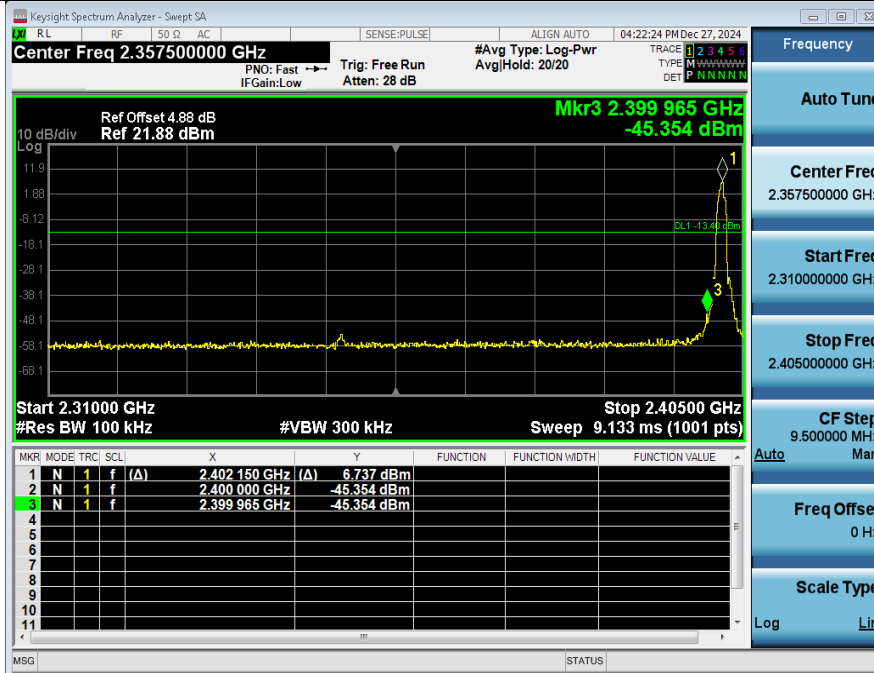


1_Reference_Level_NVNT_ANT1_3-DH5_2402_00



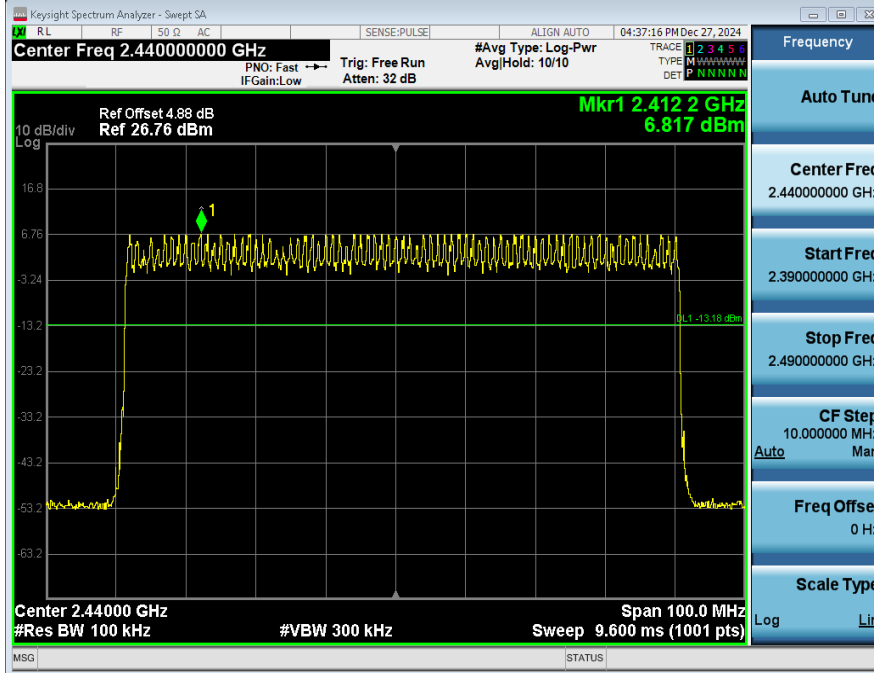


2_Bandedge_NVNT_ANT1_3-DH5_2402_00

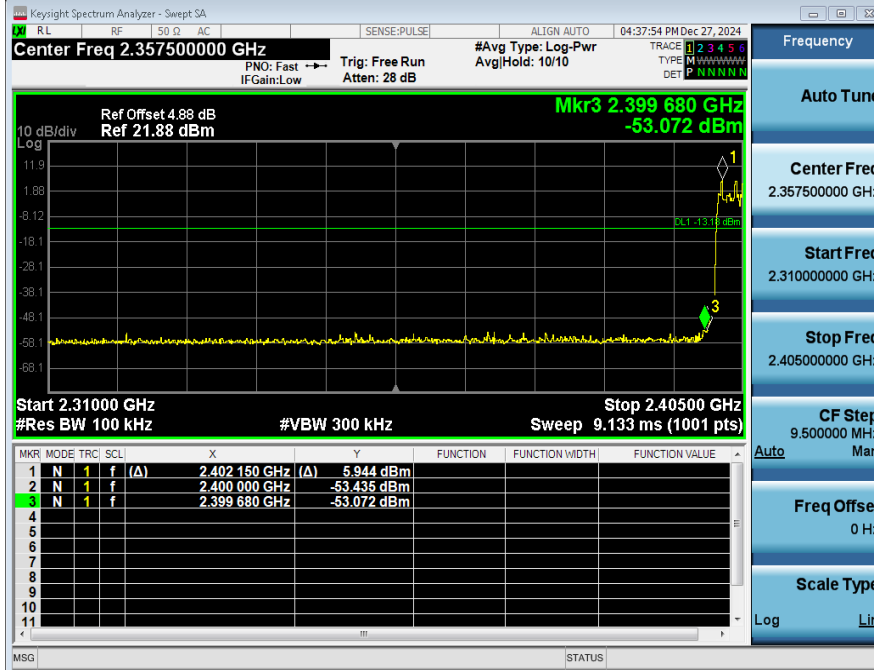


1_Reference_Level_Hopping_NVNT_ANT1_3-DH5_Hopping





2_Band_Edge_(Hopping)_NVNT_ANT1_3-DH5_Hopping

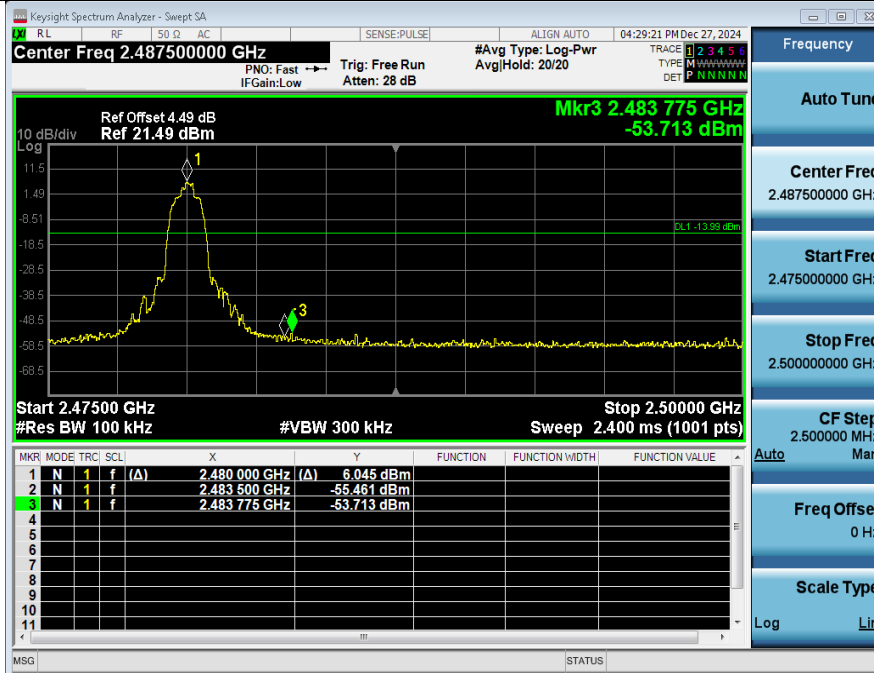


1_Reference_Level_NVNT_ANT1_3-DH5_2480_00



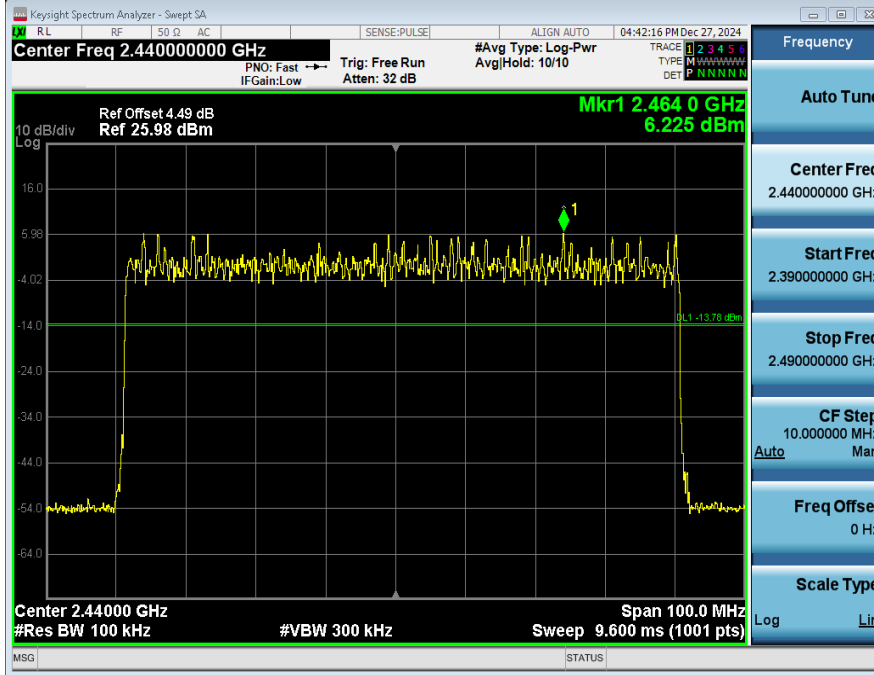


2_Bandedge_NVNT_ANT1_3-DH5_2480_00

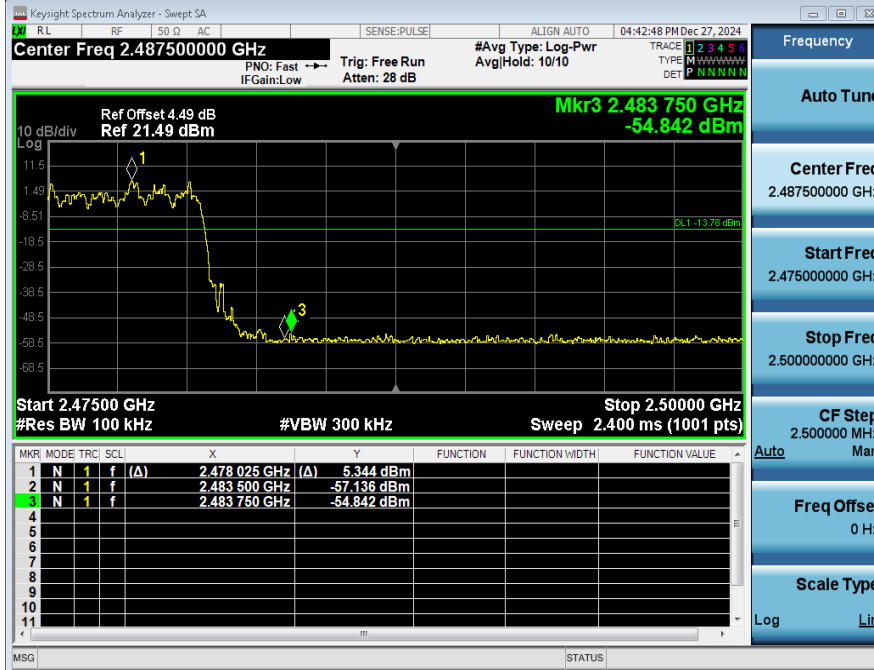


1_Reference_Level_Hopping_NVNT_ANT1_3-DH5_Hopping





2_Band_Edge_(Hopping)_NVNT_ANT1_3-DH5_Hopping



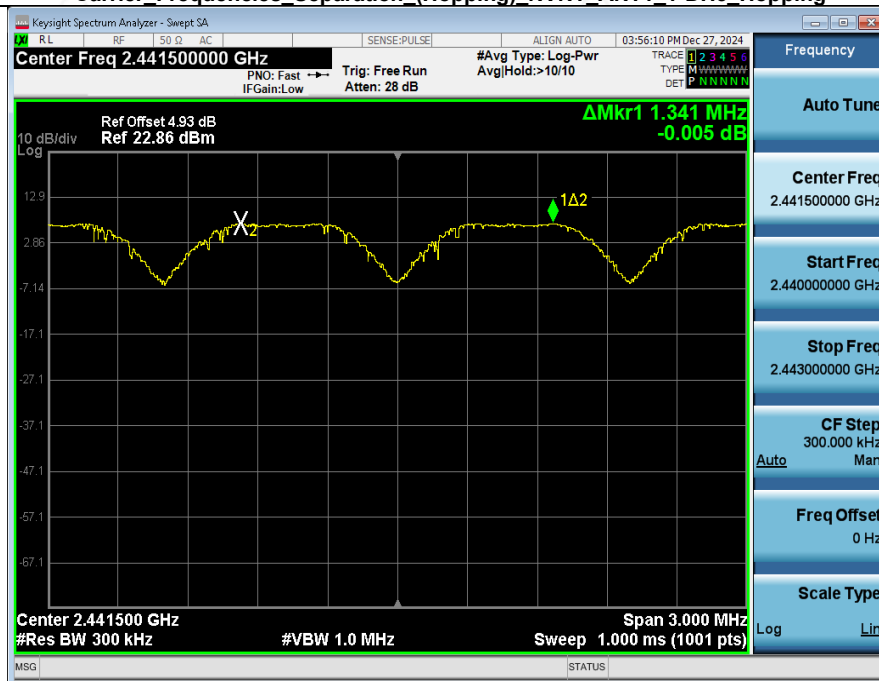
7. Carrier Frequencies Separation (Hopping)

Condition	Antenna	Modulation	Frequency(MHz)	Hopping NO.0 (MHz)	Hopping NO.1 (MHz)	Carrier Frequencies Separation(MHz)	Limit(MHz)	Result
NVNT	ANT1	1-DH5	2402.00	2402.158	2403.163	1.00	0.695	Pass
NVNT	ANT1	1-DH5	2441.00	2440.825	2442.166	1.34	0.697	Pass
NVNT	ANT1	1-DH5	2480.00	2478.987	2479.986	1.00	0.701	Pass
NVNT	ANT1	2-DH5	2402.00	2402.188	2403.295	1.11	0.794	Pass
NVNT	ANT1	2-DH5	2441.00	2440.711	2442.169	1.46	0.797	Pass
NVNT	ANT1	2-DH5	2480.00	2479.185	2480.133	0.95	0.813	Pass
NVNT	ANT1	3-DH5	2402.00	2402.173	2403.181	1.01	0.831	Pass
NVNT	ANT1	3-DH5	2441.00	2440.816	2442.178	1.36	0.823	Pass
NVNT	ANT1	3-DH5	2480.00	2478.702	2479.743	1.04	0.828	Pass

Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH5_Hopping

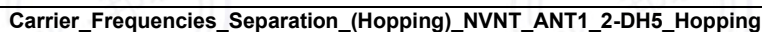
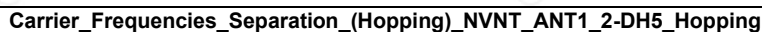


Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH5_Hopping



Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH5_Hopping







Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_2-DH5_Hopping



Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH5_Hopping





Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH5_Hopping



Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH5_Hopping

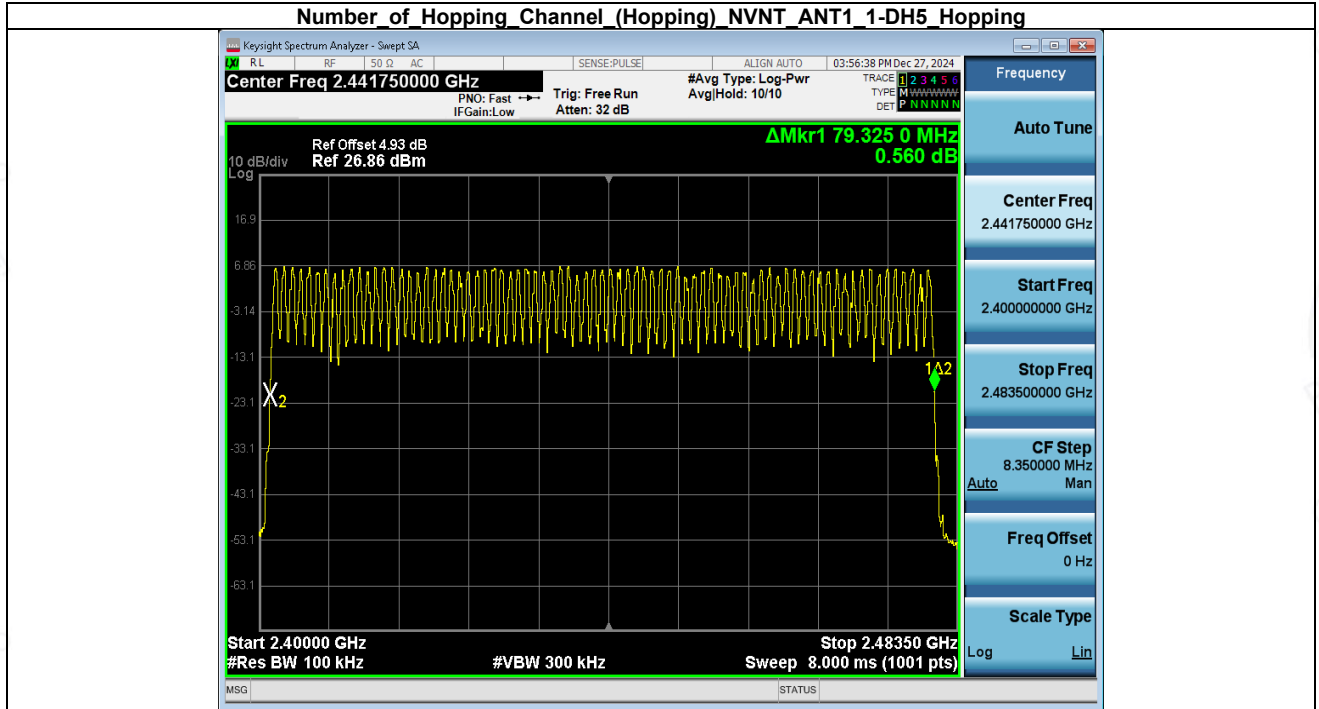




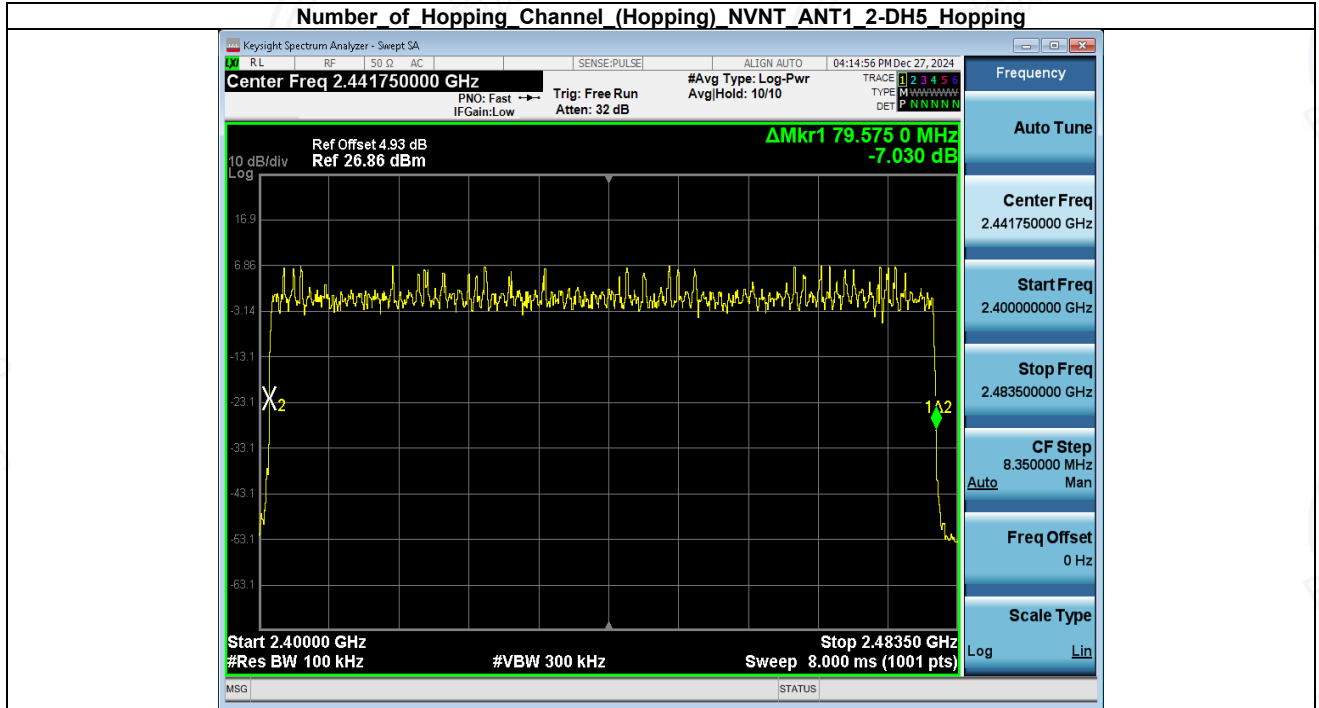
8. Number of Hopping Channel (Hopping)

Condition	Antenna	Modulation	Hopping Num	Limit	Result
NVNT	ANT1	1-DH5	79	15	Pass
NVNT	ANT1	2-DH5	79	15	Pass
NVNT	ANT1	3-DH5	79	15	Pass

Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_1-DH5_Hopping

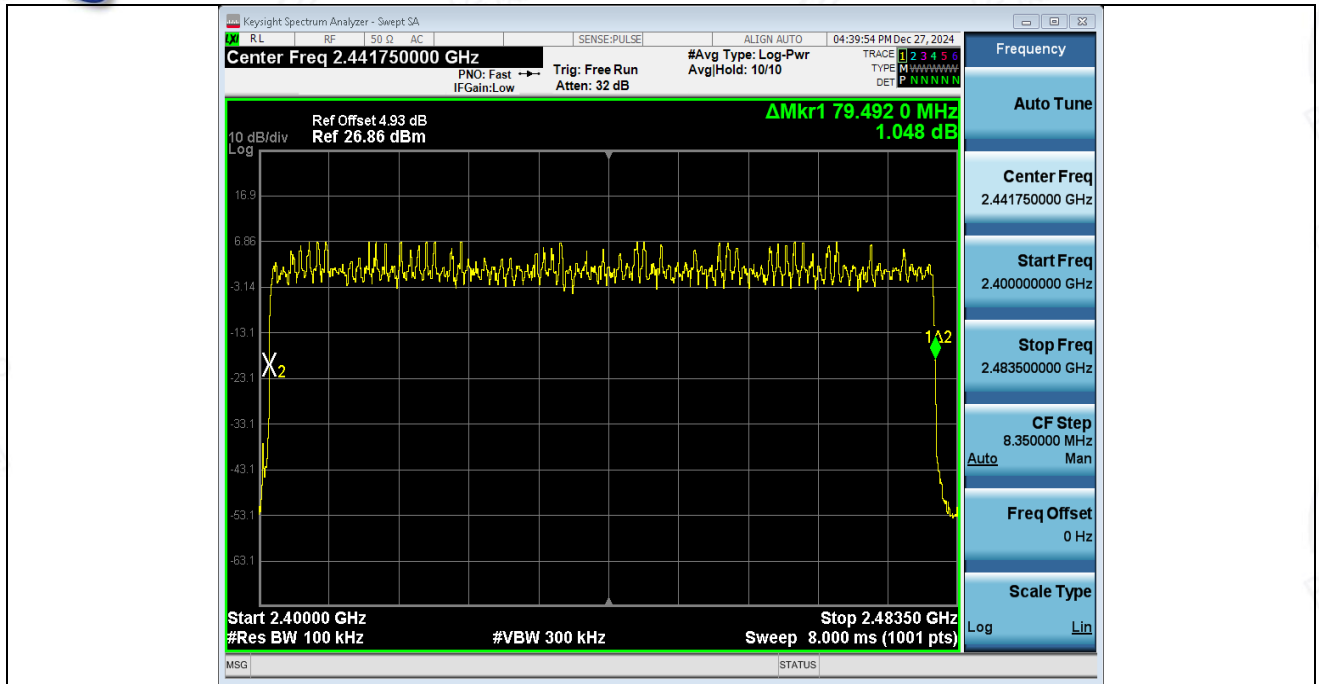


Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_2-DH5_Hopping



Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_3-DH5_Hopping

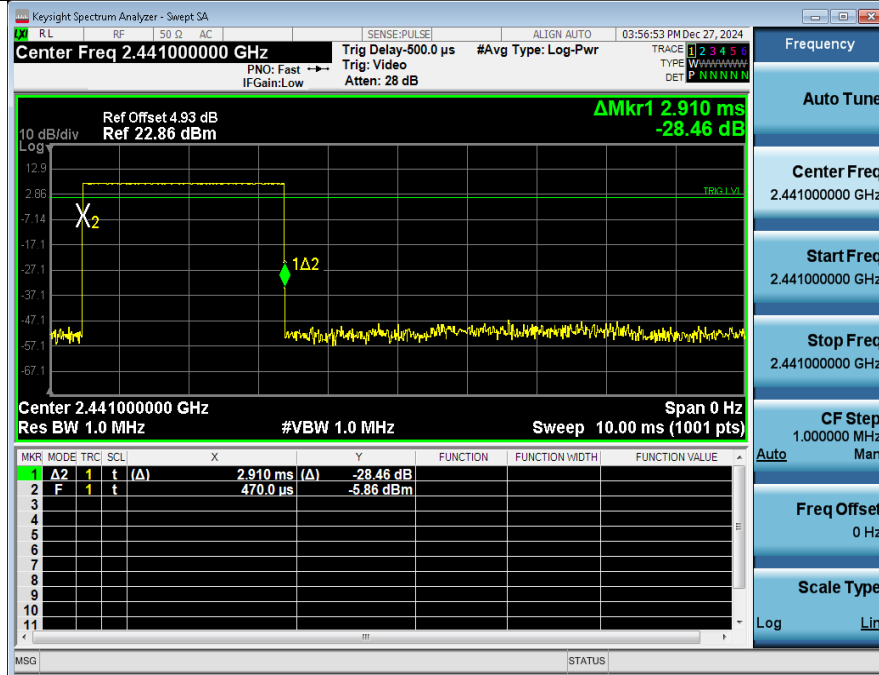




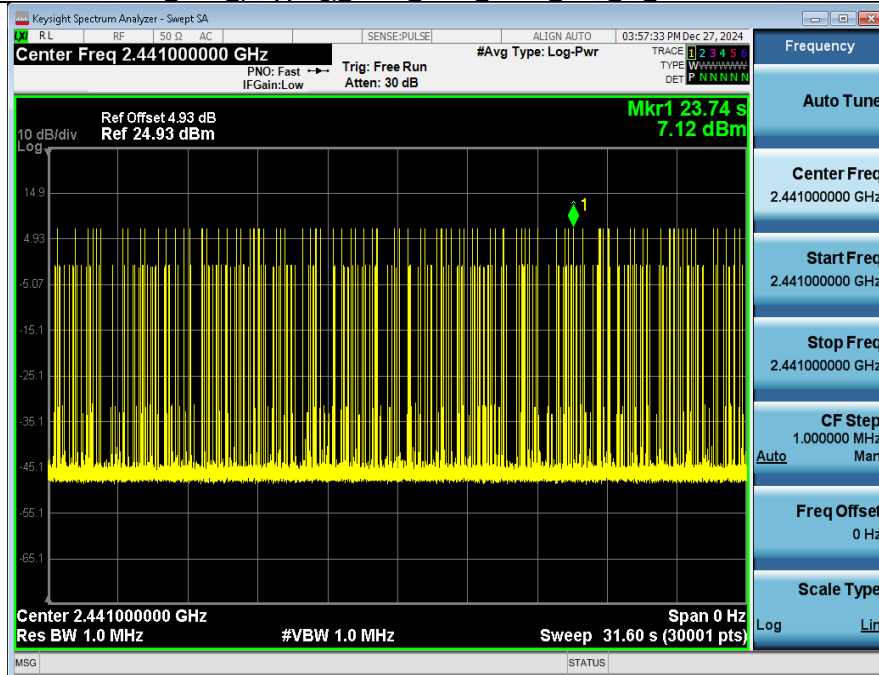
9. Dwell Time (Hopping)

Condition	Antenna	Packet Type	Pulse Time(ms)	Hops	Dwell Time(ms)	Limit(s)	Result
NVNT	ANT1	1-DH5	2.910	93.00	270.630	0.40	Pass
NVNT	ANT1	2-DH5	2.920	72.00	210.240	0.40	Pass
NVNT	ANT1	3-DH5	2.920	74.00	216.080	0.40	Pass

Dwell_Time (Hopping)_NVNT_ANT1_1-DH5_2441_00_One_Burst_Time

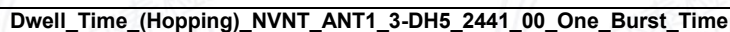


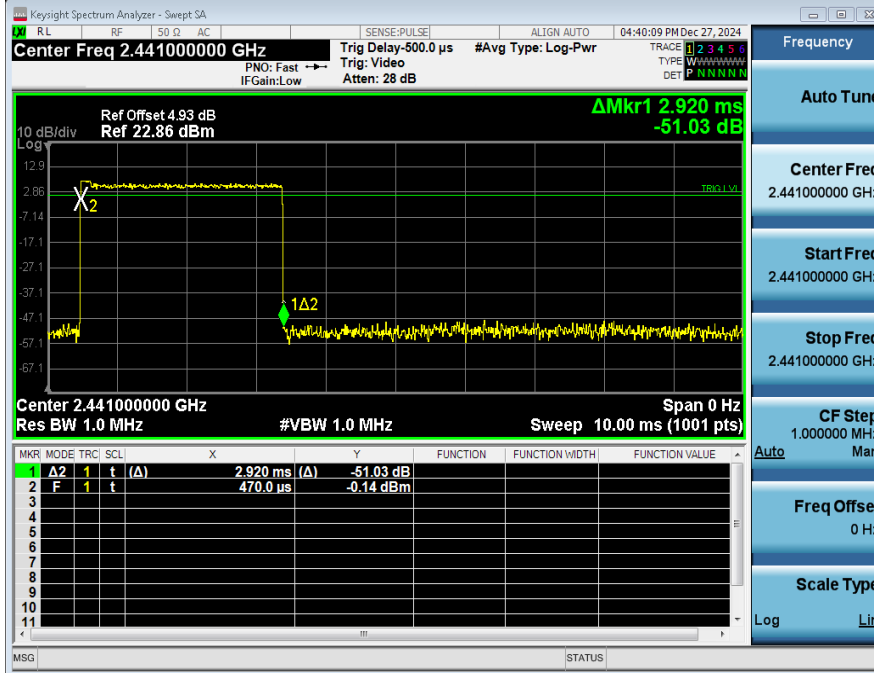
Dwell_Time (Hopping)_NVNT_ANT1_1-DH5_2441_00_Accumulated



Dwell_Time (Hopping)_NVNT_ANT1_2-DH5_2441_00_One_Burst_Time







Dwell Time (Hopping) NVNT_ANT1_3-DH5_2441_00_Accumulated

