

Appendix

Test Data

for BTEK241210052A01E06

Start date	2025/3/21	Finish date	2025/3/21
Temperature	22.3℃	Humidity	43%
RF specifications	BT	Test Engineer	Zora



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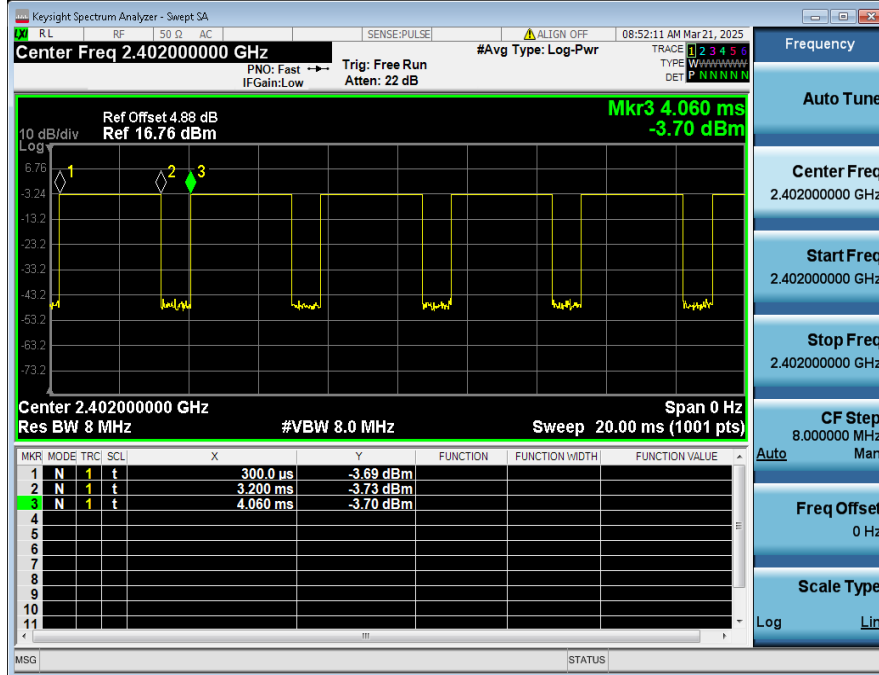
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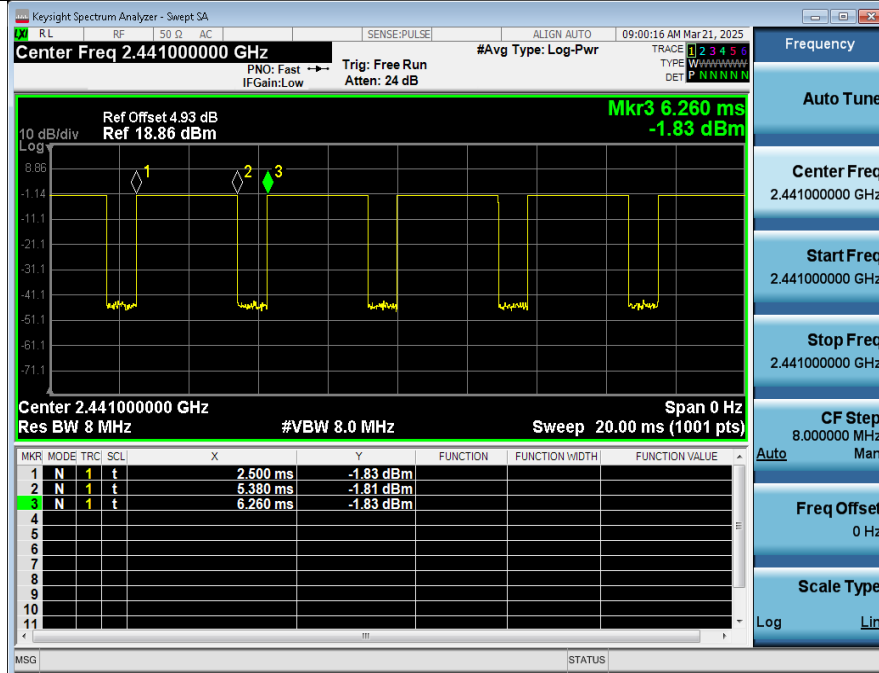
1. Duty Cycle

Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	1-DH5	2402.00	77.13	1.13
NVNT	ANT1	1-DH5	2441.00	77.13	1.13
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	78.07	1.07
NVNT	ANT1	2-DH5	2480.00	77.66	1.10
NVNT	ANT1	3-DH5	2402.00	24.06	6.19
NVNT	ANT1	3-DH5	2441.00	23.94	6.21
NVNT	ANT1	3-DH5	2480.00	23.53	6.28

Duty_Cycle_NVNT_ANT1_1-DH5_2402

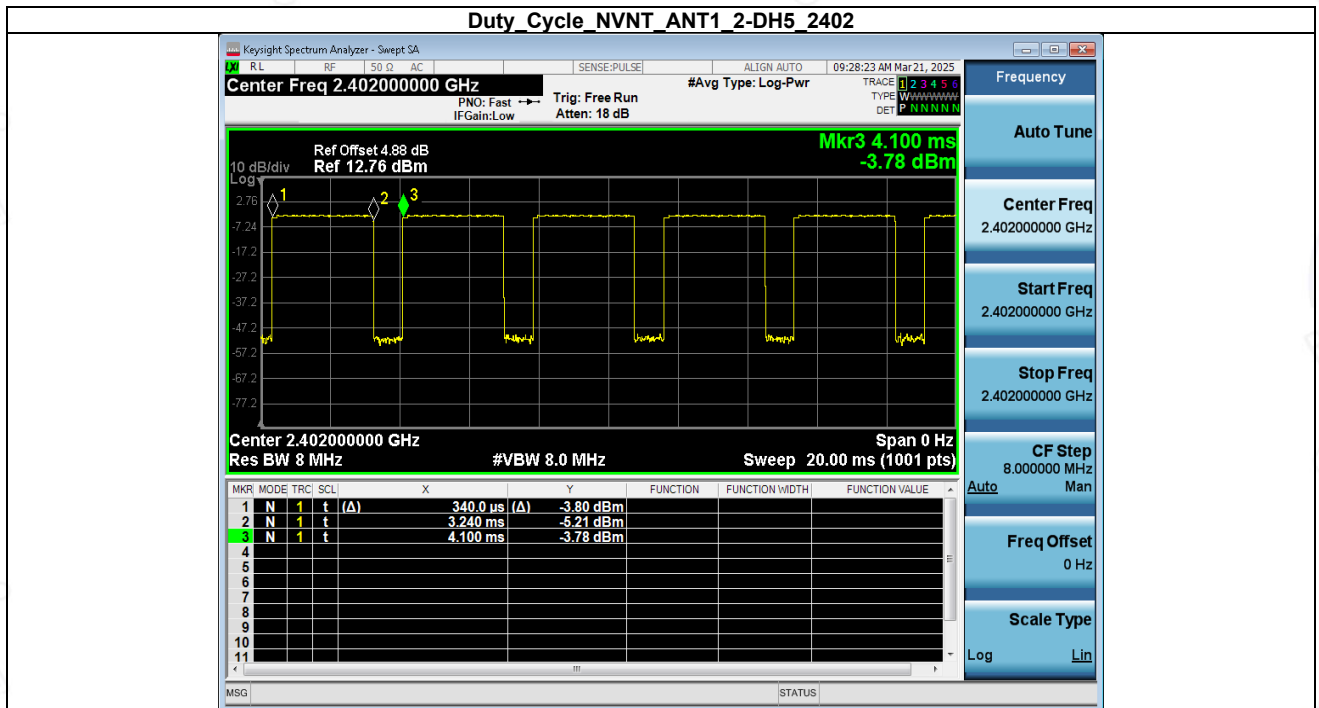
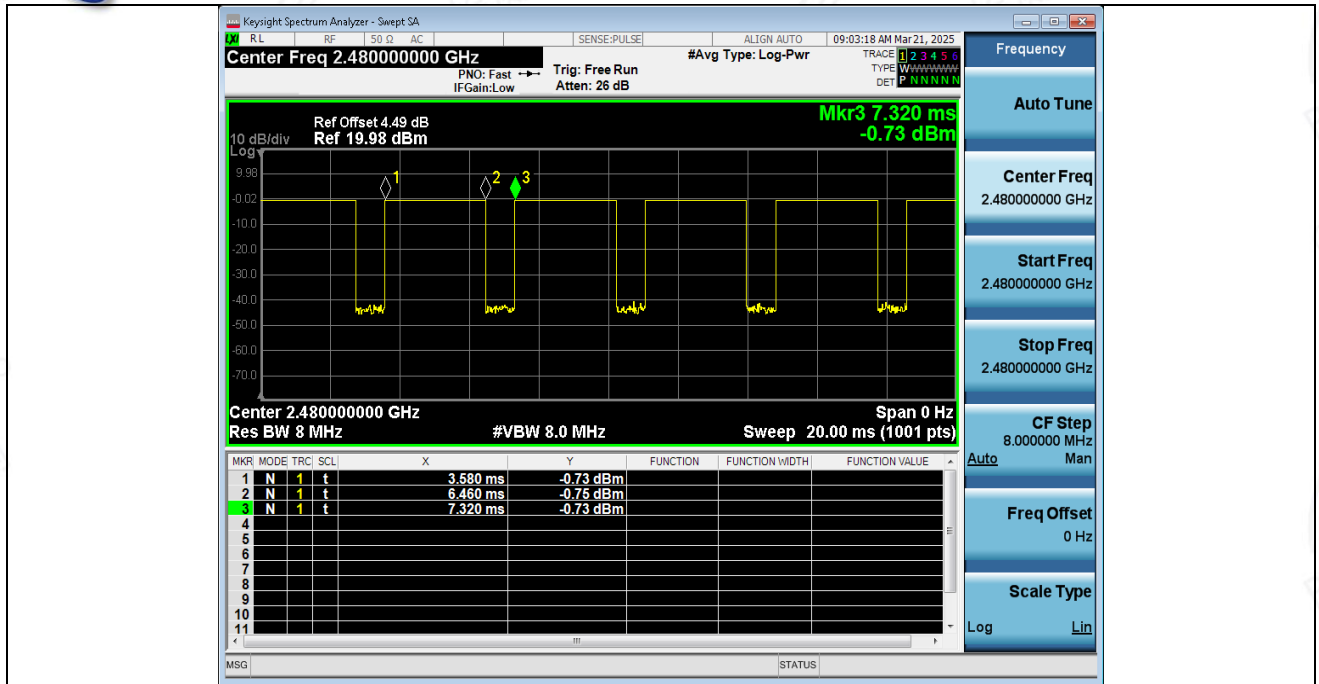


Duty_Cycle_NVNT_ANT1_1-DH5_2441



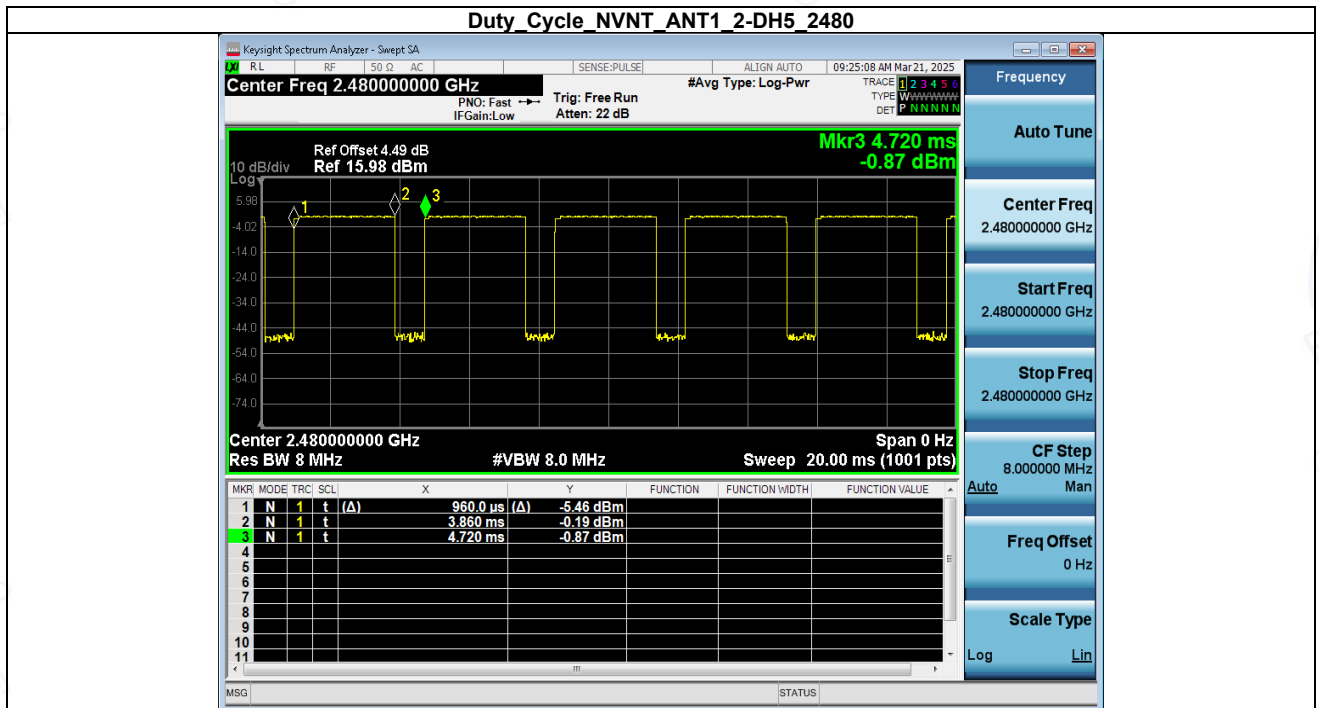
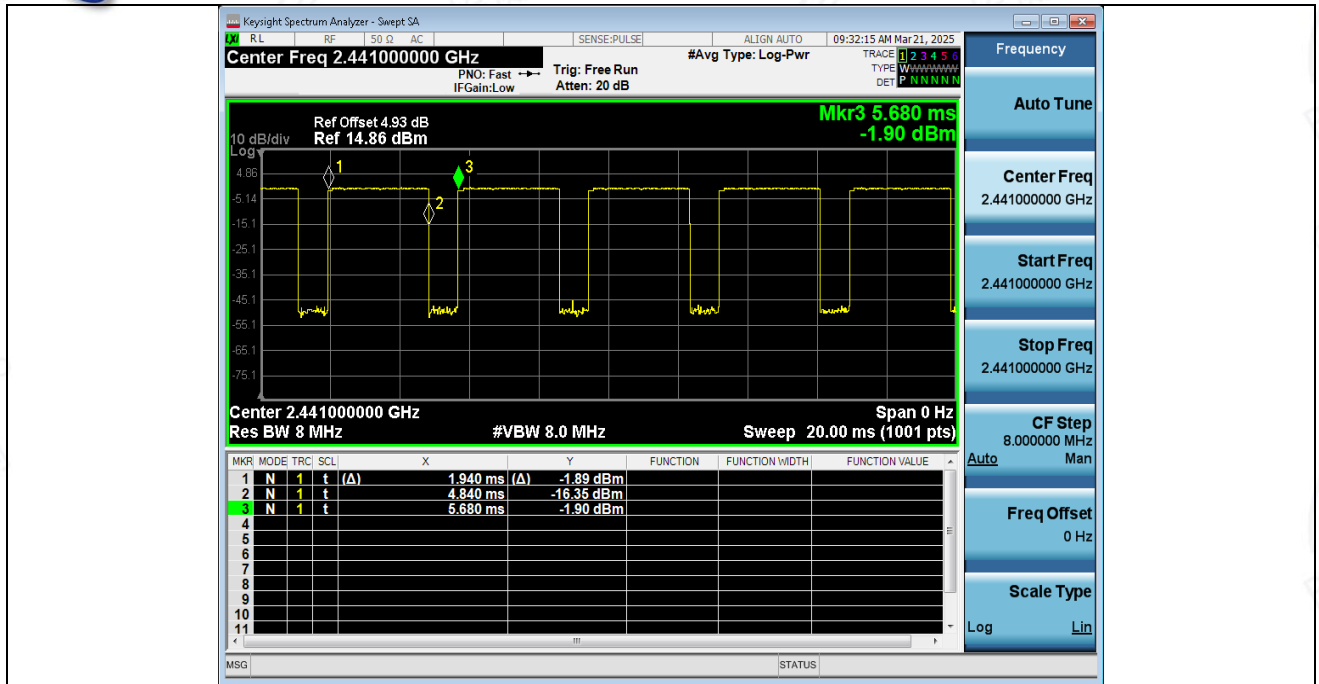
Duty_Cycle_NVNT_ANT1_1-DH5_2480





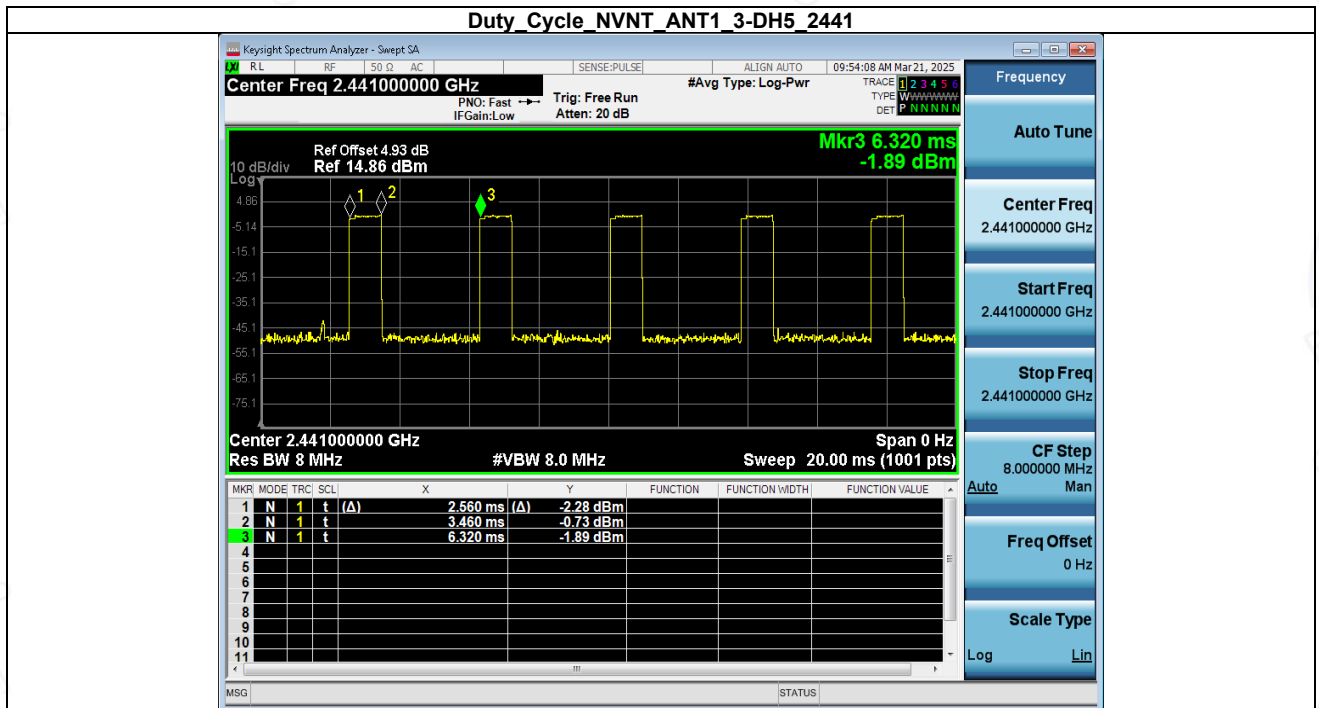
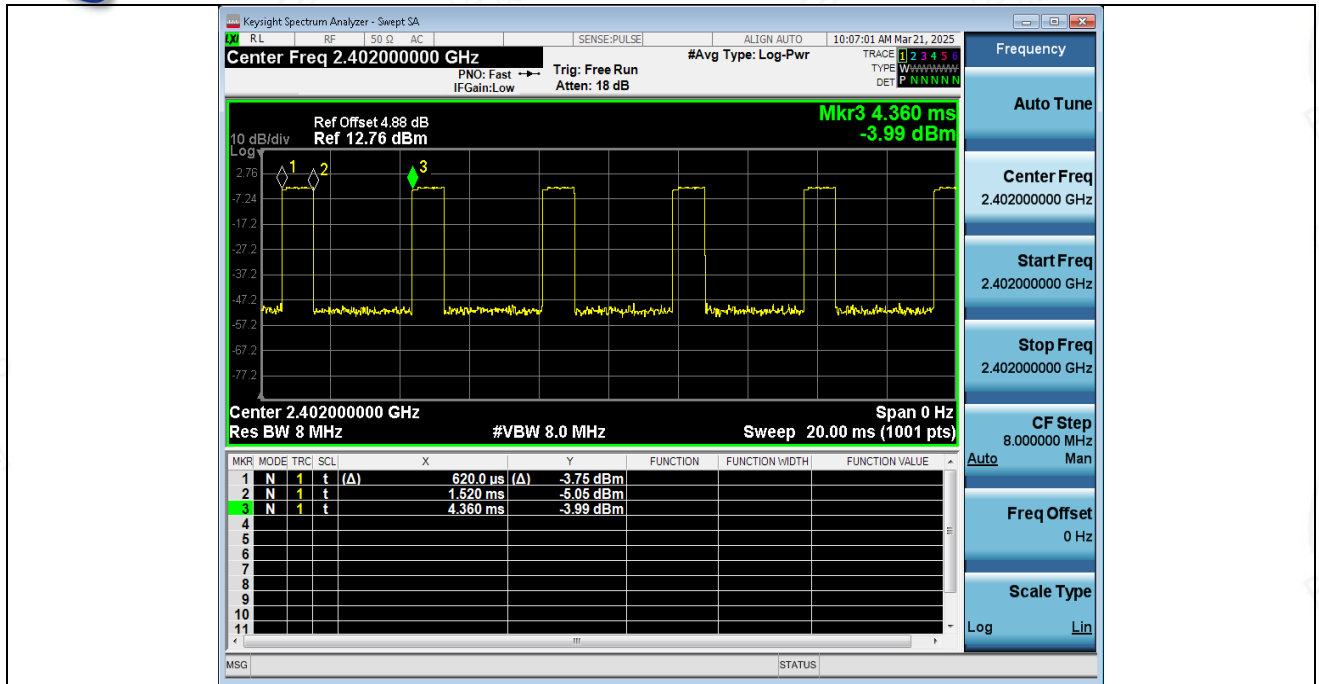
Duty Cycle_NVNT_ANT1_2-DH5_2441





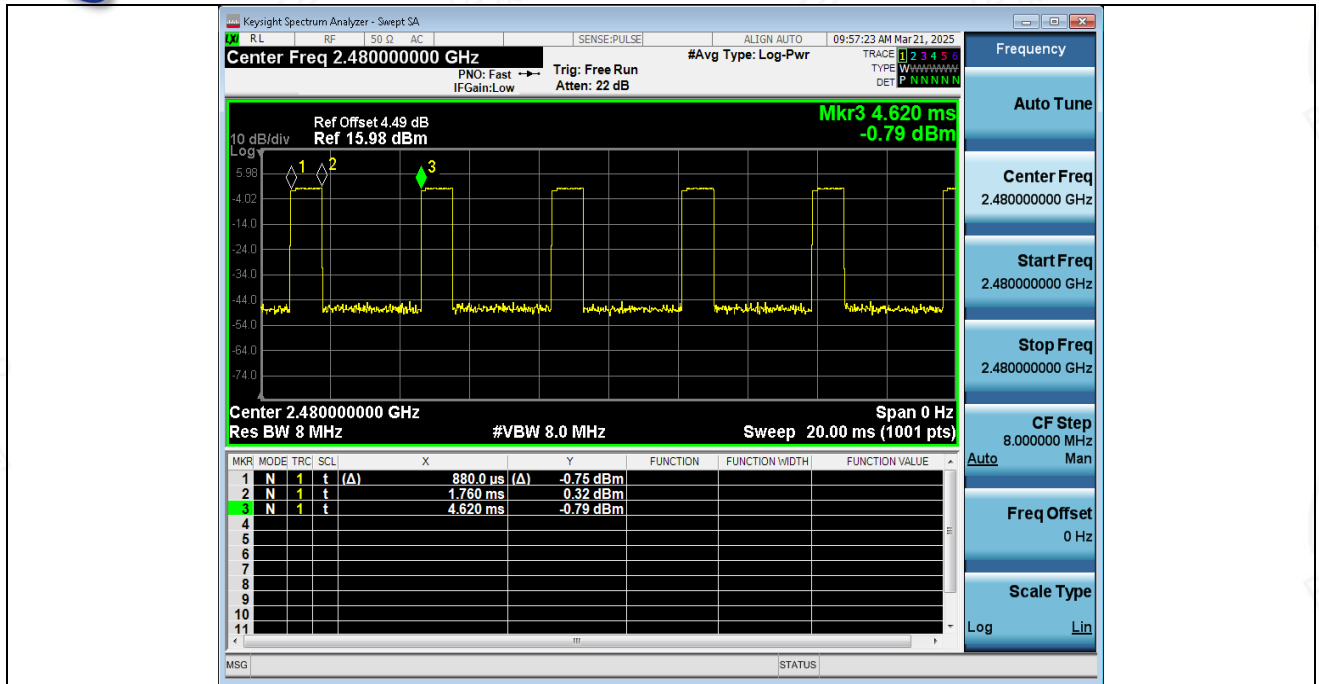
Duty Cycle_NVNT_ANT1_3-DH5_2402





Duty Cycle_NVNT_ANT1_3-DH5_2480

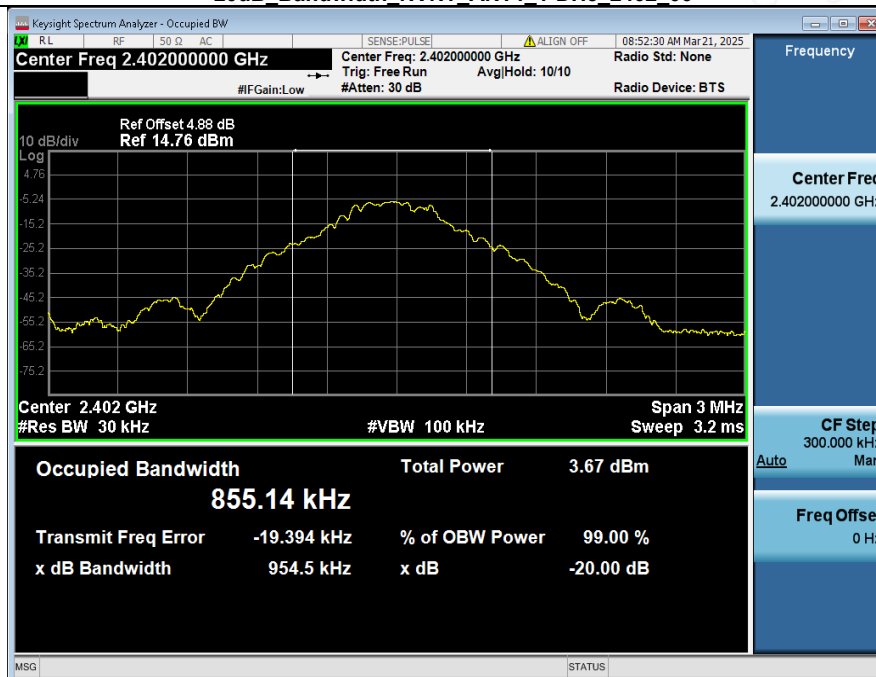




2. -20dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS
NVNT	ANT1	1-DH5	2402.00	0.955	No
NVNT	ANT1	1-DH5	2441.00	0.950	No
NVNT	ANT1	1-DH5	2480.00	0.953	No
NVNT	ANT1	2-DH5	2402.00	1.304	Yes
NVNT	ANT1	2-DH5	2441.00	1.285	Yes
NVNT	ANT1	2-DH5	2480.00	1.305	Yes
NVNT	ANT1	3-DH5	2402.00	1.277	Yes
NVNT	ANT1	3-DH5	2441.00	1.281	Yes
NVNT	ANT1	3-DH5	2480.00	1.278	Yes

-20dB_Bandwidth_NVNT_ANT1_1-DH5_2402_00

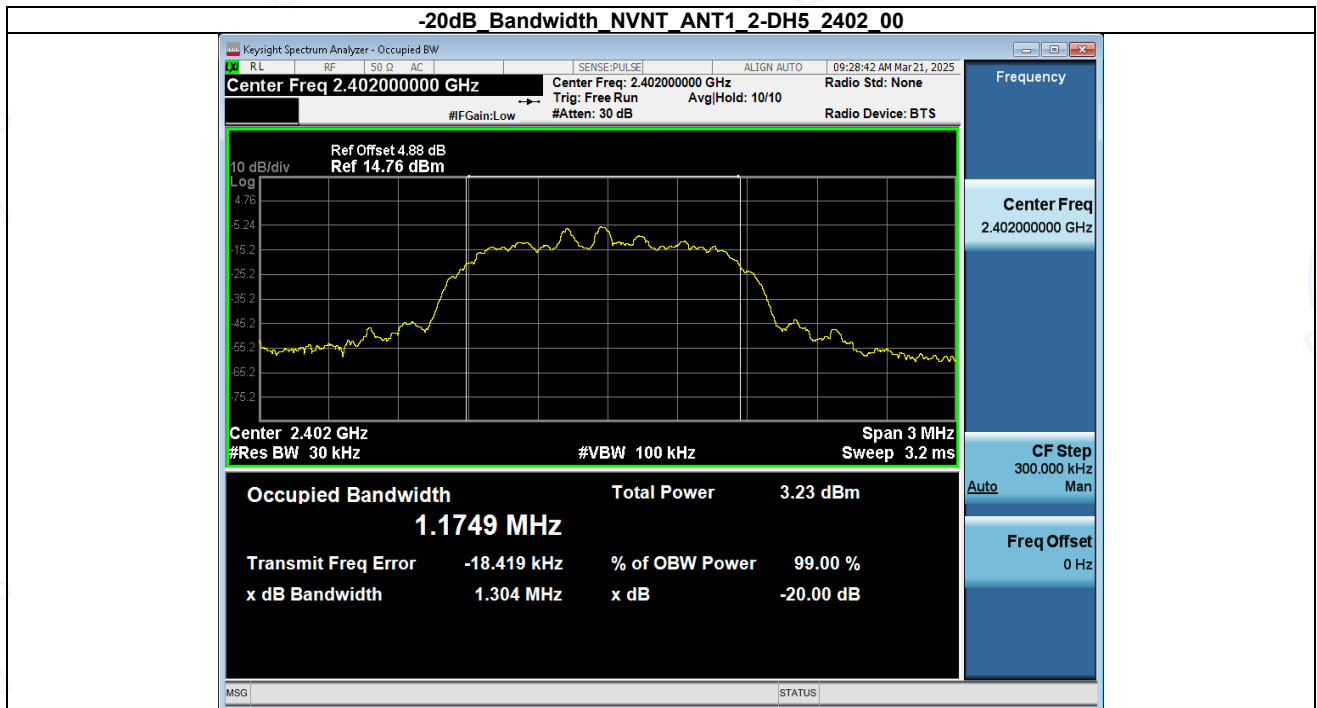


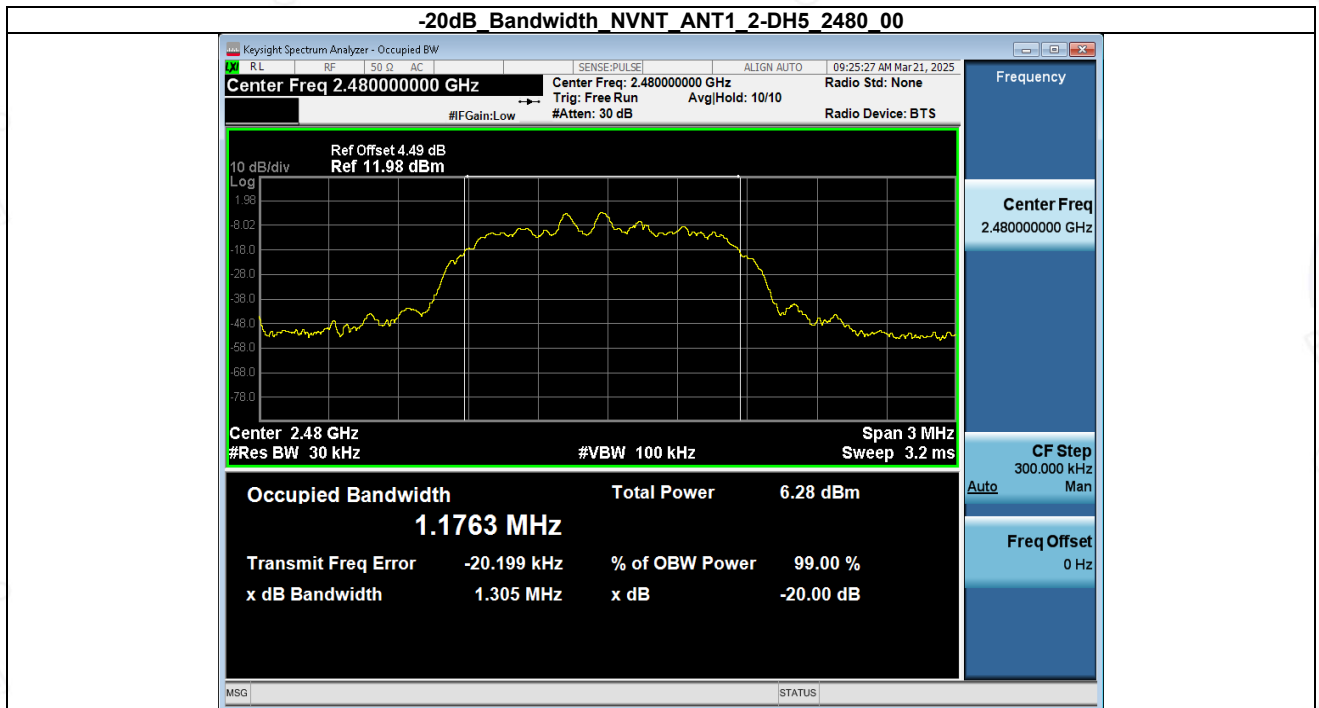
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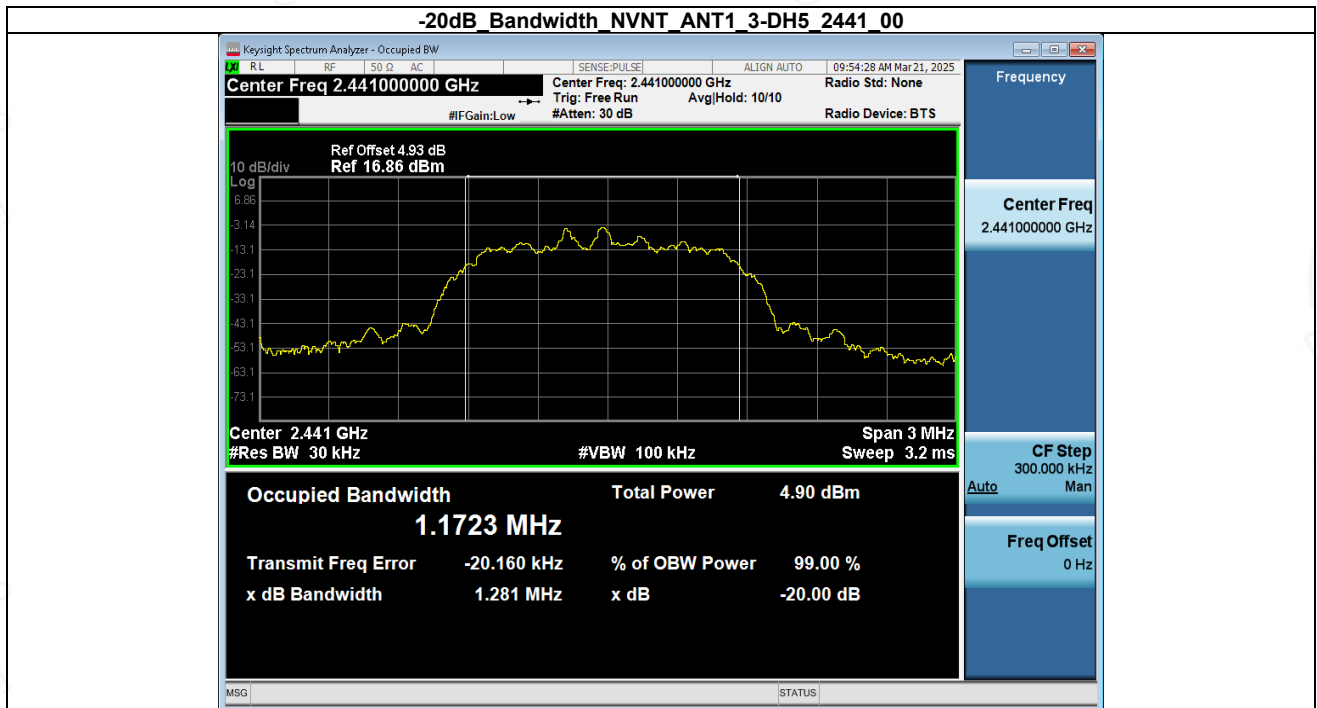


-20dB_Bandwidth_NVNT_ANT1_1-DH5_2480_00







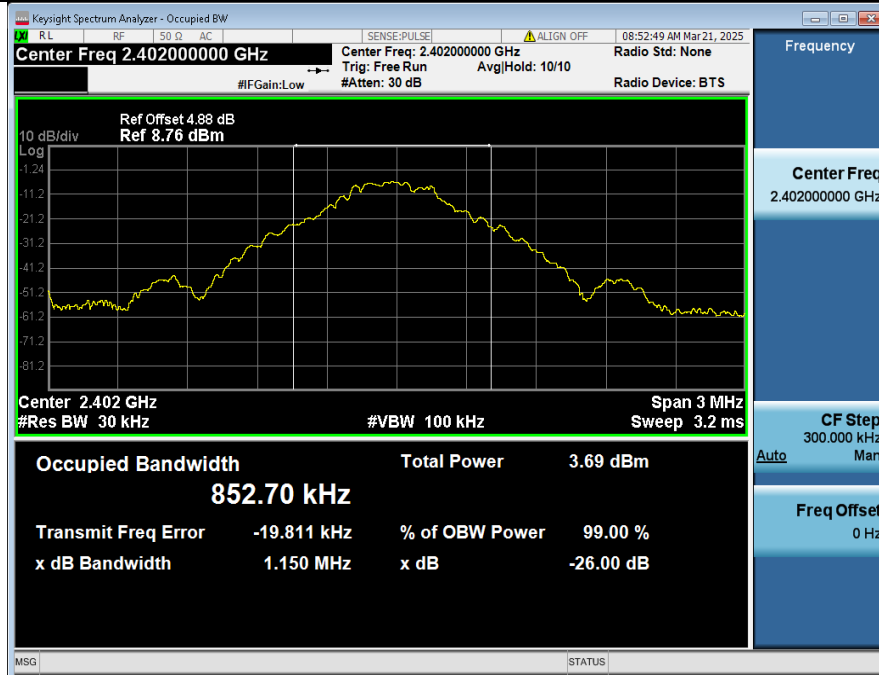




3. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	1-DH5	2402.00	0.853
NVNT	ANT1	1-DH5	2441.00	0.852
NVNT	ANT1	1-DH5	2480.00	0.857
NVNT	ANT1	2-DH5	2402.00	1.174
NVNT	ANT1	2-DH5	2441.00	1.172
NVNT	ANT1	2-DH5	2480.00	1.174
NVNT	ANT1	3-DH5	2402.00	1.170
NVNT	ANT1	3-DH5	2441.00	1.168
NVNT	ANT1	3-DH5	2480.00	1.166

99% Occupied Bandwidth NVNT ANT1 1-DH5 2402_00

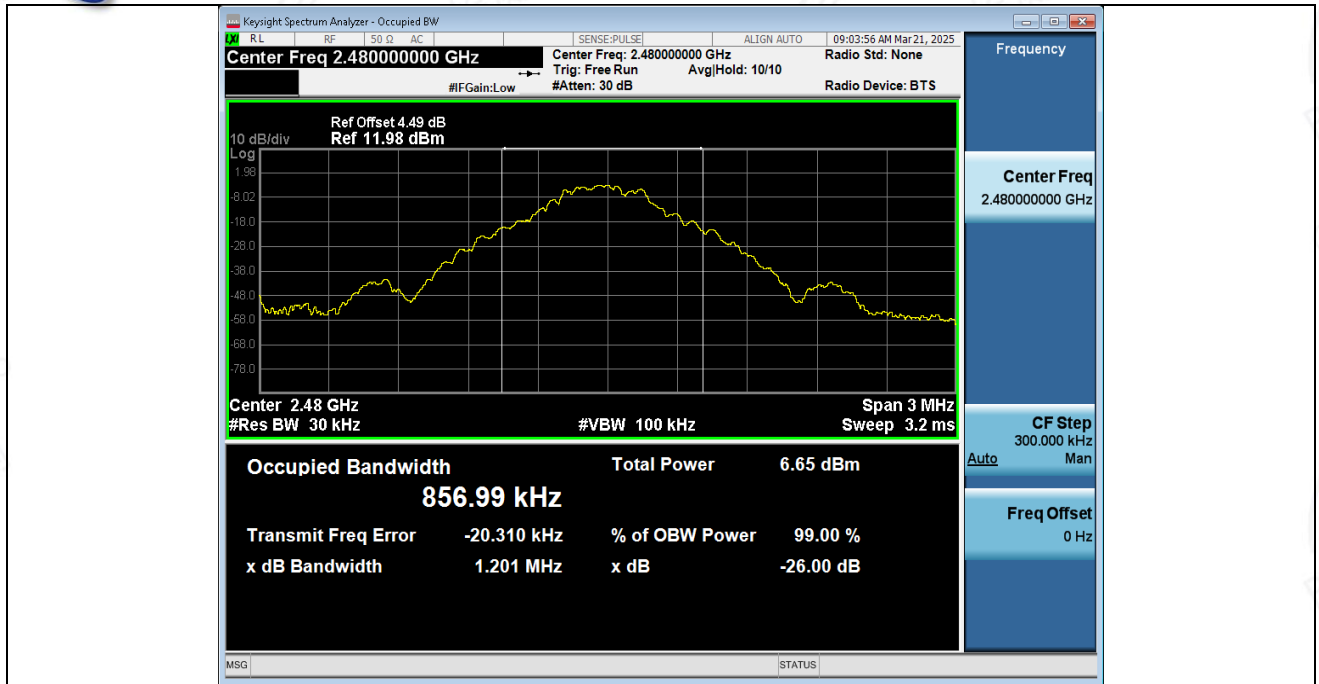


99% Occupied Bandwidth NVNT ANT1 1-DH5 2441_00



99% Occupied Bandwidth NVNT ANT1 1-DH5 2480_00





99% Occupied Bandwidth_NVNT_ANT1_2-DH5_2402_00

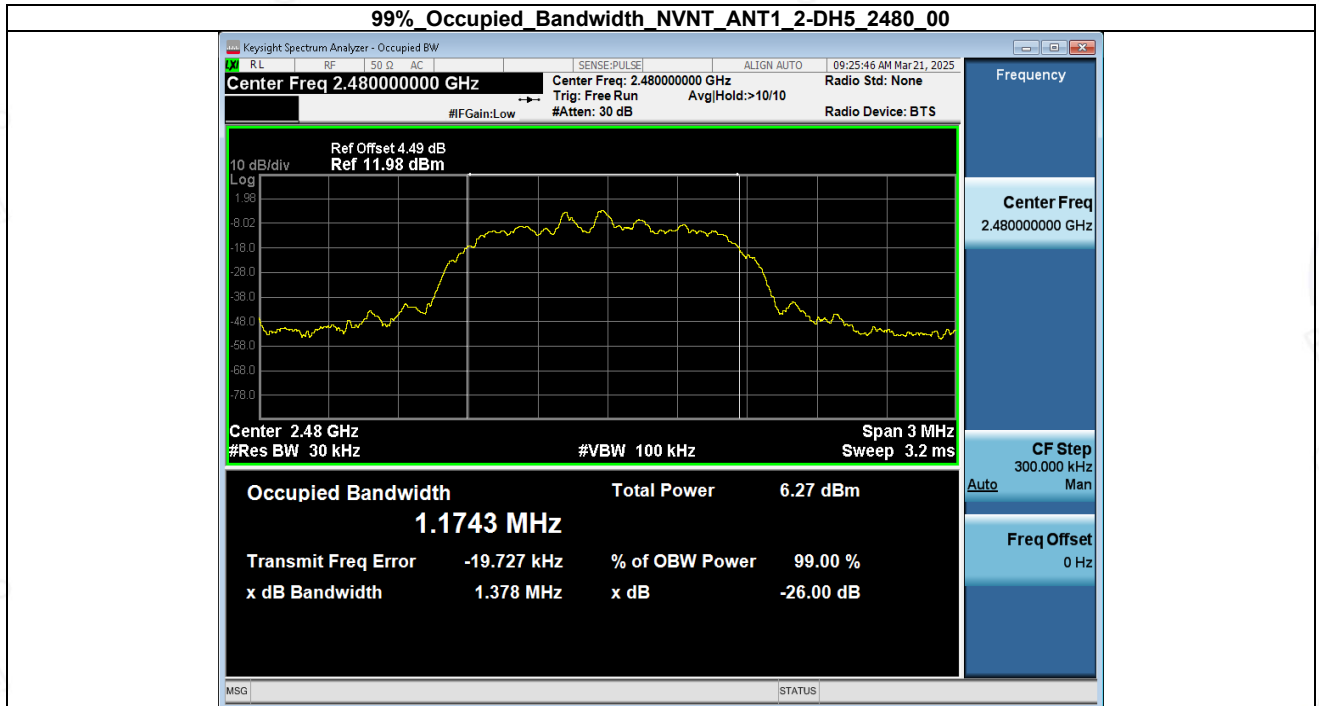


99% Occupied Bandwidth_NVNT_ANT1_2-DH5_2441_00





99% Occupied Bandwidth_NVNT_ANT1_2-DH5_2480_00

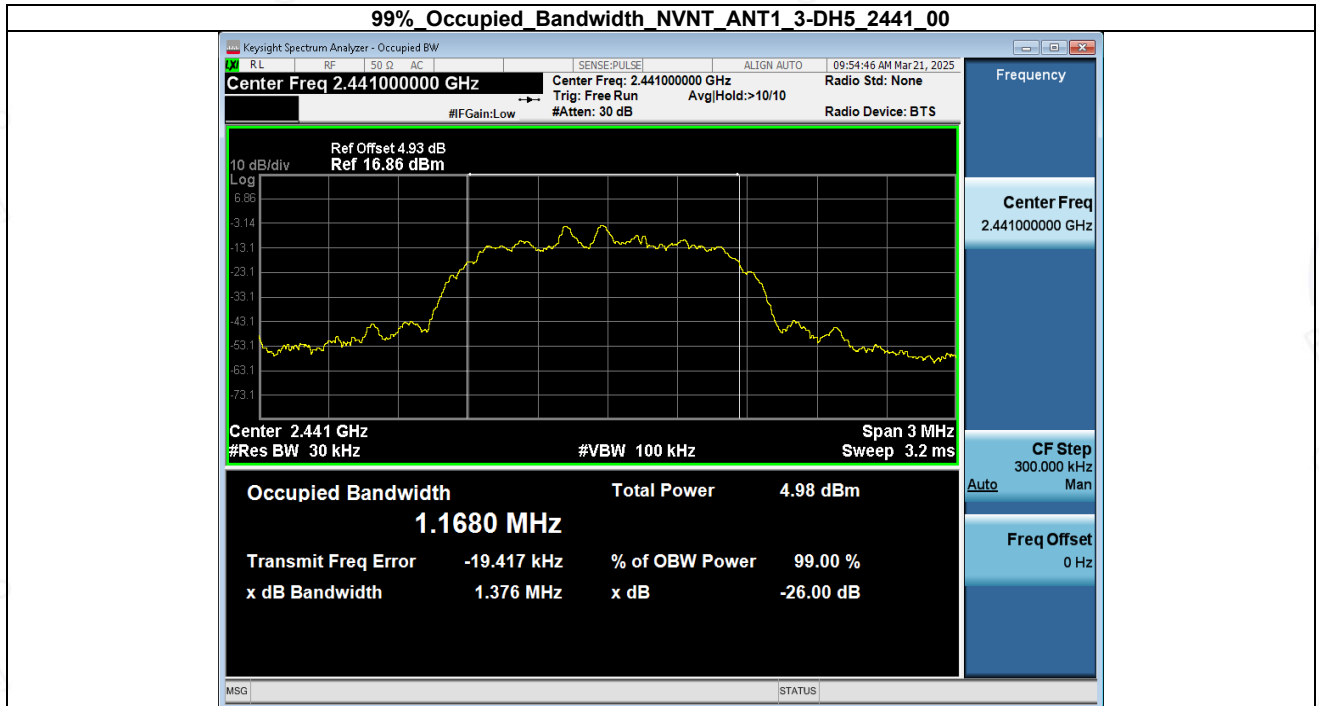


99% Occupied Bandwidth_NVNT_ANT1_3-DH5_2402_00





99% Occupied Bandwidth_NVNT_ANT1_3-DH5_2441_00



99% Occupied Bandwidth_NVNT_ANT1_3-DH5_2480_00

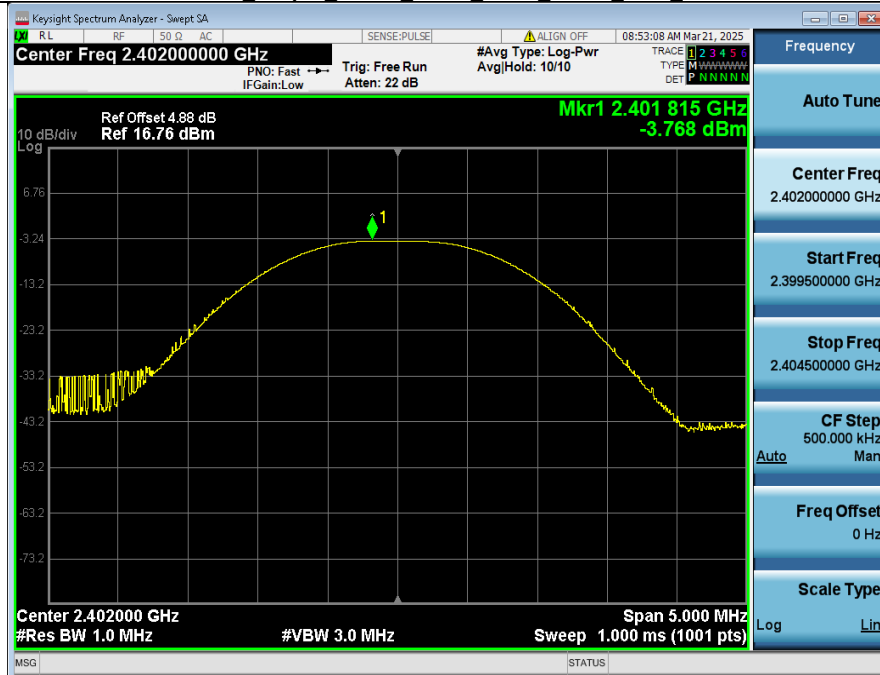




4. Peak Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1-DH5	2402.00	-3.77	0.42	1000	Pass
NVNT	ANT1	1-DH5	2441.00	-1.88	0.65	1000	Pass
NVNT	ANT1	1-DH5	2480.00	-0.82	0.83	1000	Pass
NVNT	ANT1	2-DH5	2402.00	-2.78	0.53	125	Pass
NVNT	ANT1	2-DH5	2441.00	-0.88	0.82	125	Pass
NVNT	ANT1	2-DH5	2480.00	0.19	1.05	125	Pass
NVNT	ANT1	3-DH5	2402.00	-2.75	0.53	125	Pass
NVNT	ANT1	3-DH5	2441.00	-0.85	0.82	125	Pass
NVNT	ANT1	3-DH5	2480.00	0.22	1.05	125	Pass

Peak_Output_Power_NVNT_ANT1_1-DH5_2402_00



Peak_Output_Power_NVNT_ANT1_1-DH5_2441_00

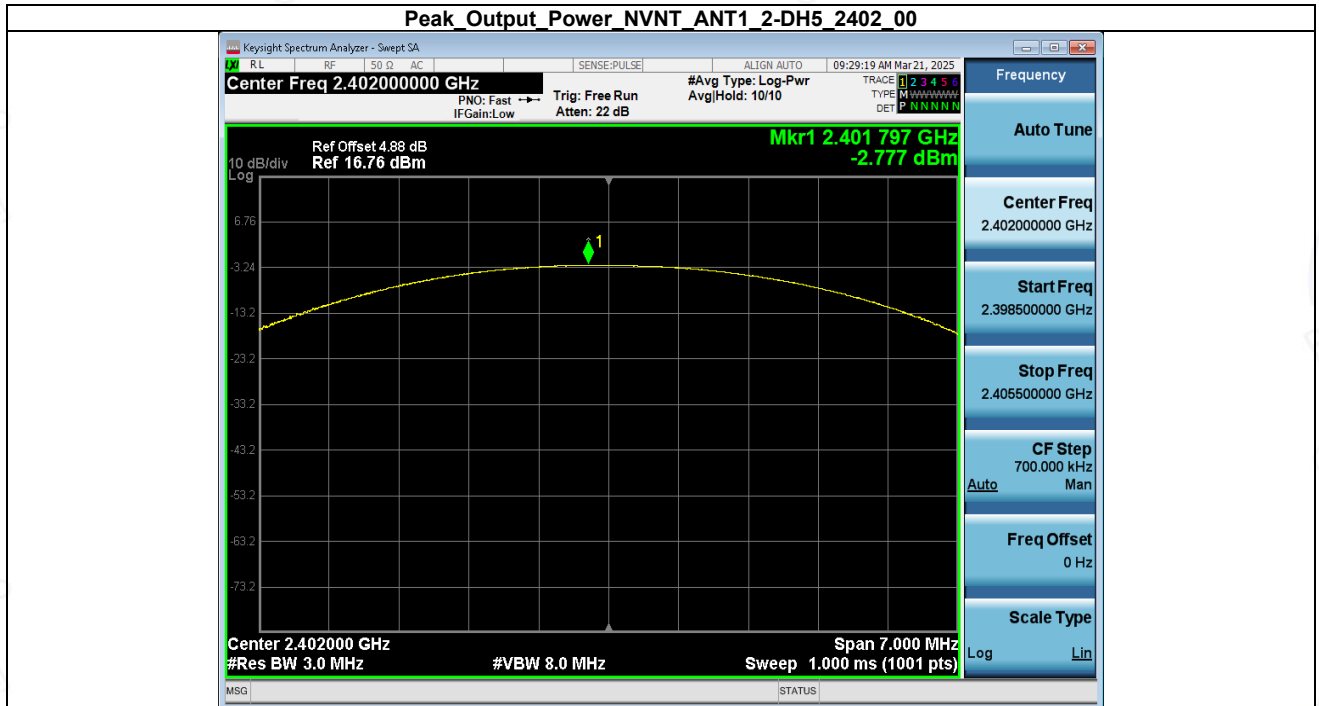


Peak_Output_Power_NVNT_ANT1_1-DH5_2480_00





Peak_Output_Power_NVNT_ANT1_2-DH5_2402_00

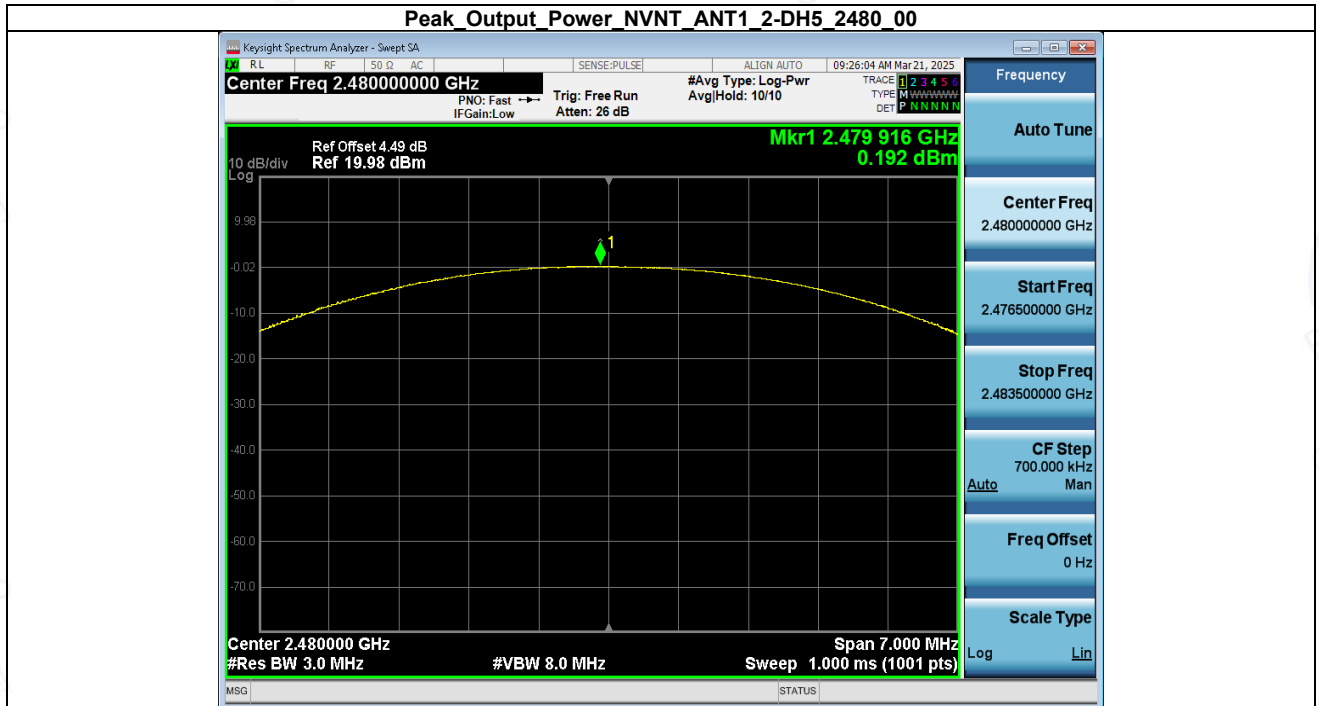


Peak_Output_Power_NVNT_ANT1_2-DH5_2441_00





Peak_Output_Power_NVNT_ANT1_2-DH5_2480_00

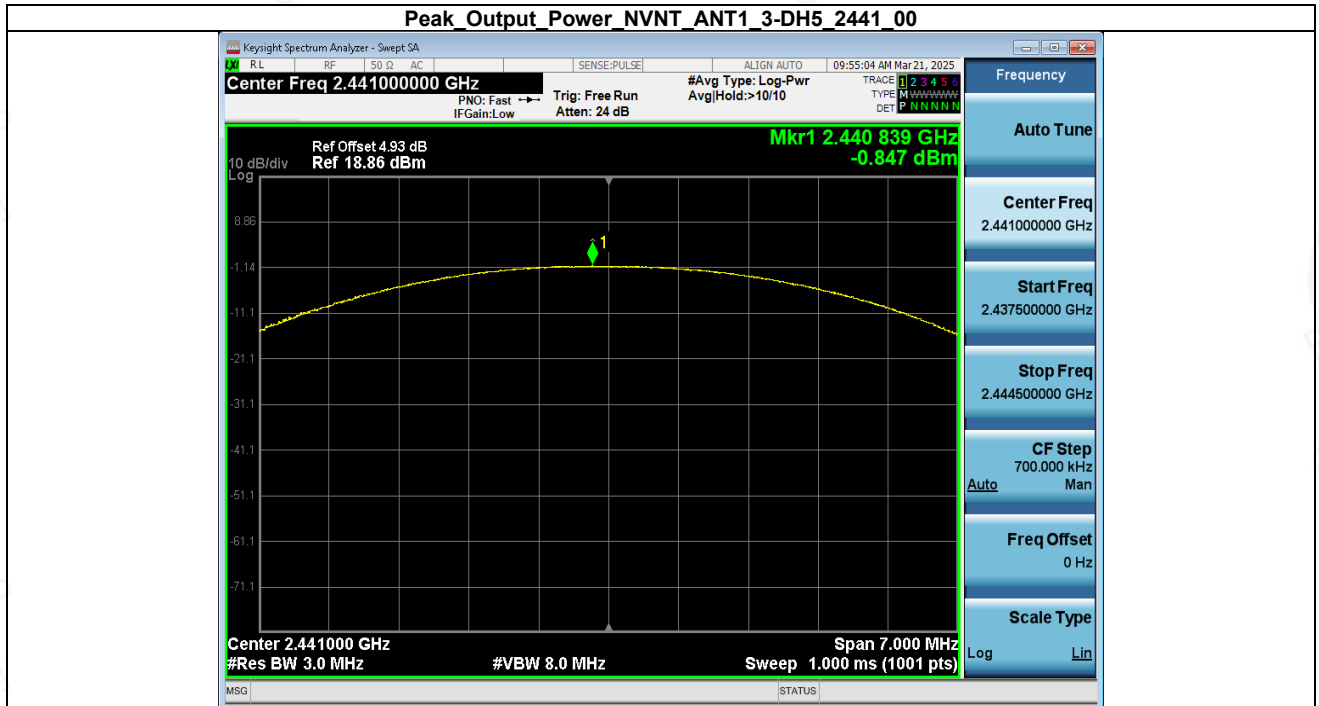


Peak_Output_Power_NVNT_ANT1_3-DH5_2402_00





Peak_Output_Power_NVNT_ANT1_3-DH5_2441_00



Peak_Output_Power_NVNT_ANT1_3-DH5_2480_00

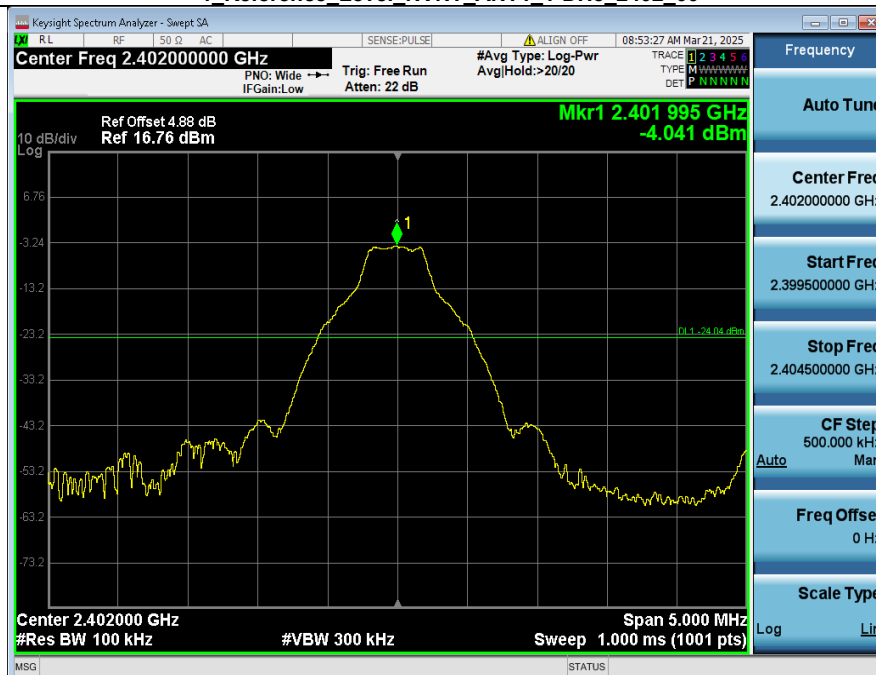




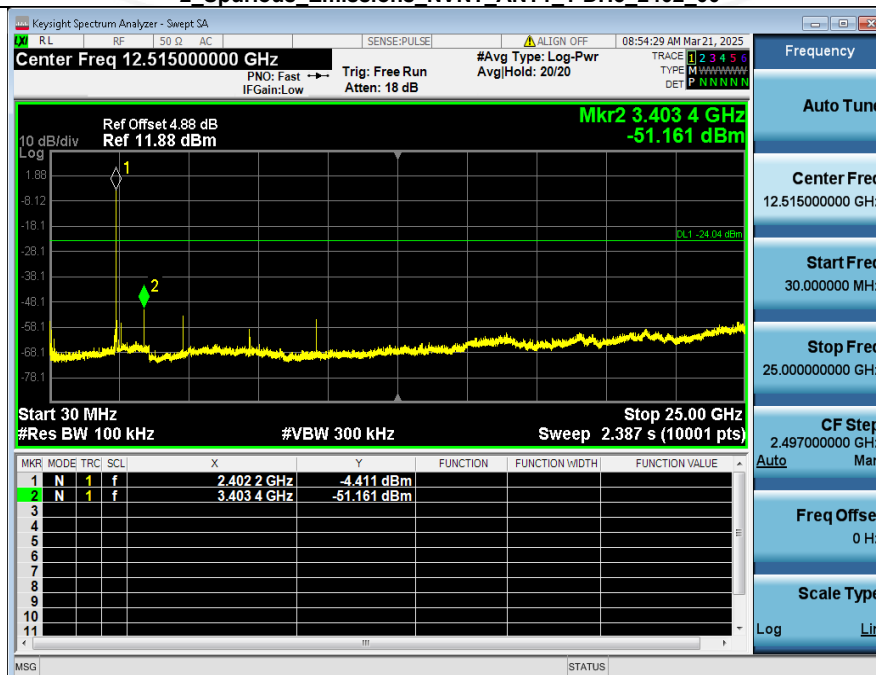
5. Spurious Emissions

Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1-DH5	2402.00	-4.041	-51.161	-24.041	Pass
NVNT	ANT1	1-DH5	2441.00	-2.062	-53.933	-22.062	Pass
NVNT	ANT1	1-DH5	2480.00	-0.968	-52.872	-20.968	Pass
NVNT	ANT1	2-DH5	2402.00	-3.884	-55.183	-23.884	Pass
NVNT	ANT1	2-DH5	2441.00	-1.913	-53.579	-21.913	Pass
NVNT	ANT1	2-DH5	2480.00	-1.034	-55.249	-21.034	Pass
NVNT	ANT1	3-DH5	2402.00	-3.853	-53.589	-23.853	Pass
NVNT	ANT1	3-DH5	2441.00	-1.852	-53.380	-21.852	Pass
NVNT	ANT1	3-DH5	2480.00	-0.841	-55.751	-20.841	Pass

1 Reference Level NVNT ANT1 1-DH5 2402 00



2 Spurious Emissions NVNT ANT1 1-DH5 2402 00

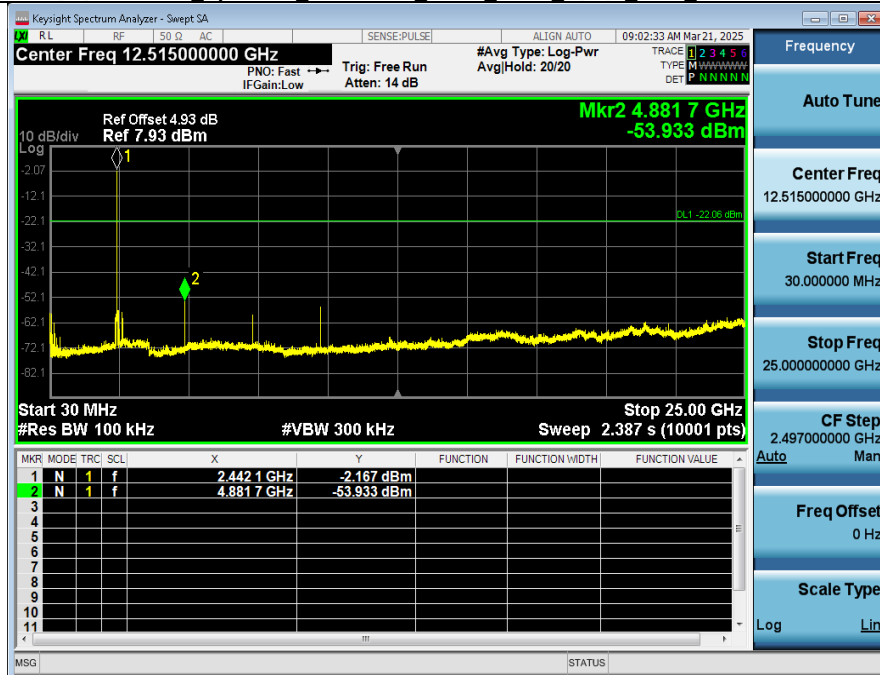


1 Reference Level NVNT ANT1 1-DH5 2441 00





2_Spurious_Emissions_NVNT_ANT1_1-DH5_2441_00

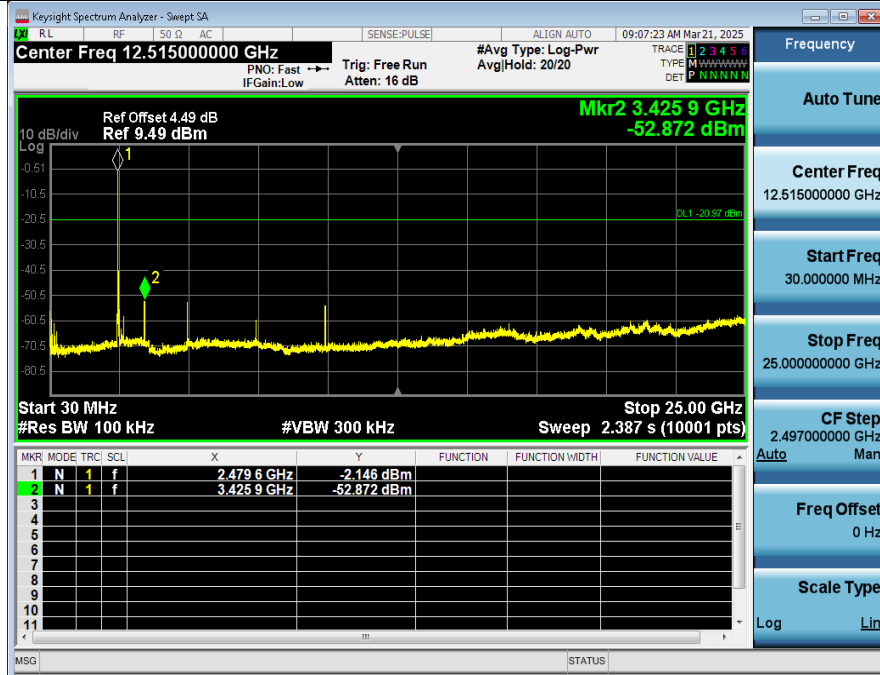


1_Reference_Level_NVNT_ANT1_1-DH5_2480_00





2_Spurious_Emissions_NVNT_ANT1_1-DH5_2480_00

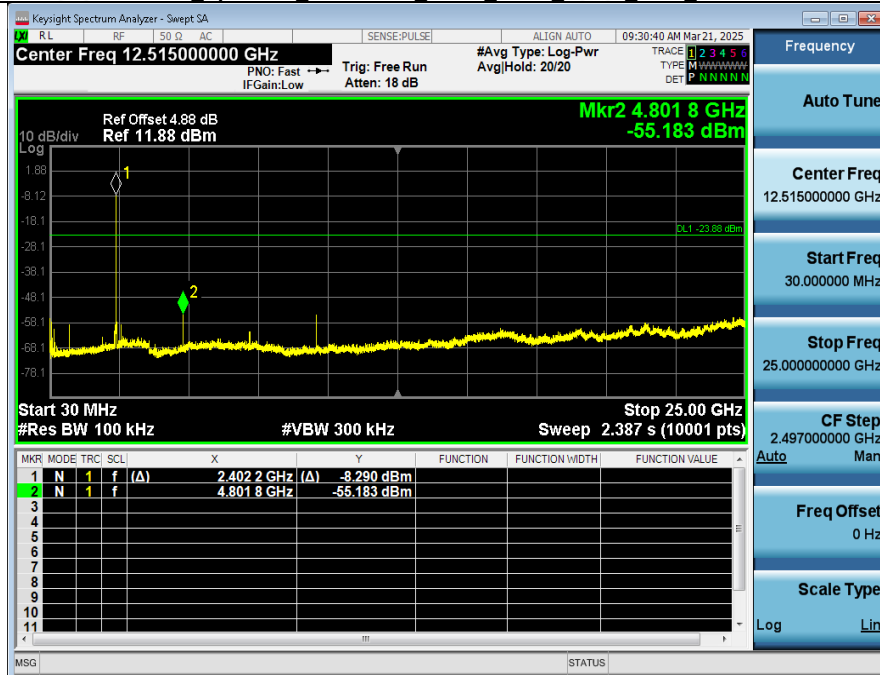


1_Reference_Level_NVNT_ANT1_2-DH5_2402_00



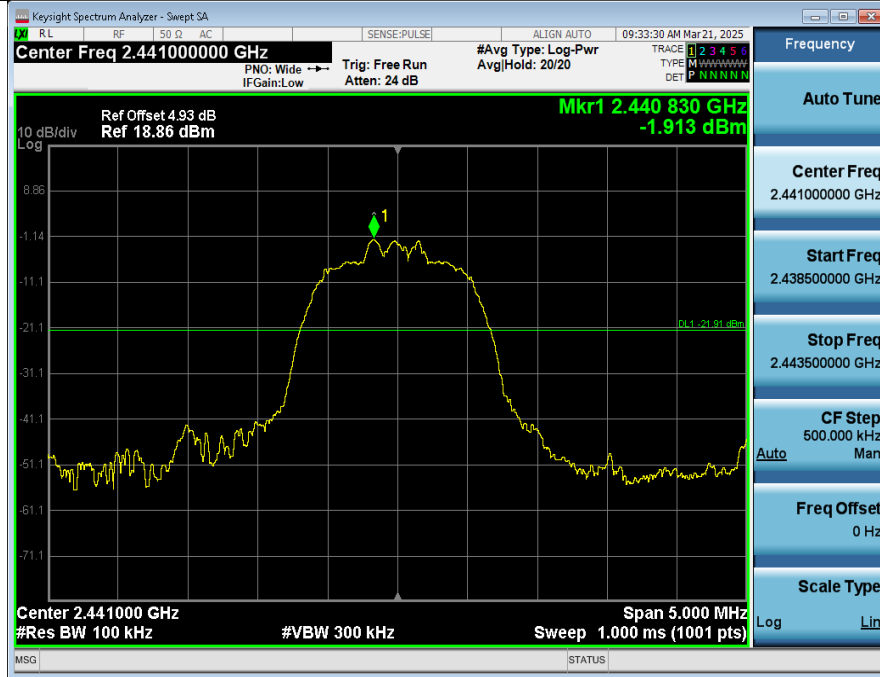


2_Spurious_Emissions_NVNT_ANT1_2-DH5_2402_00

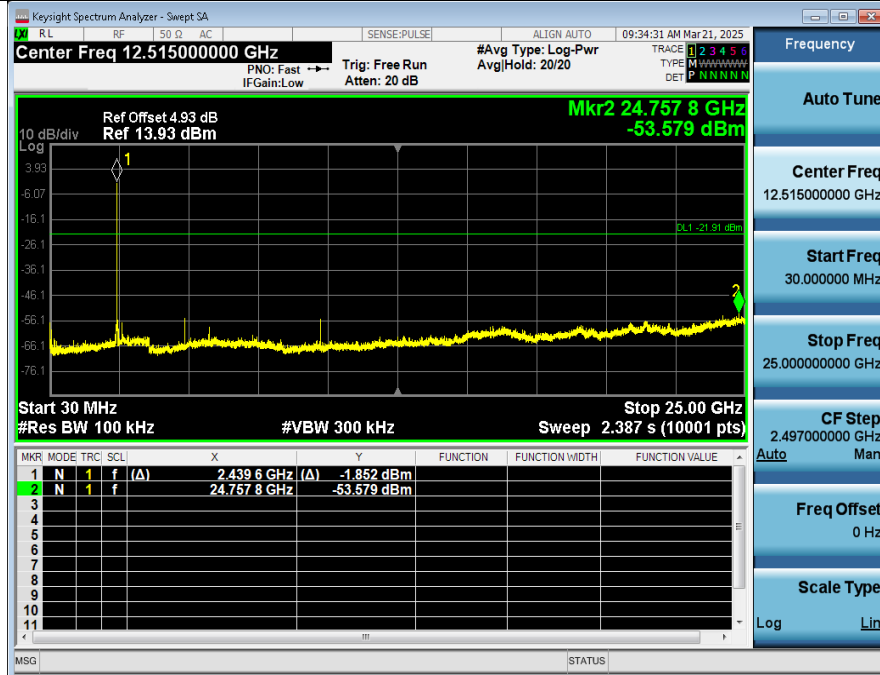


1_Reference_Level_NVNT_ANT1_2-DH5_2441_00





2_Spurious_Emissions_NVNT_ANT1_2-DH5_2441_00

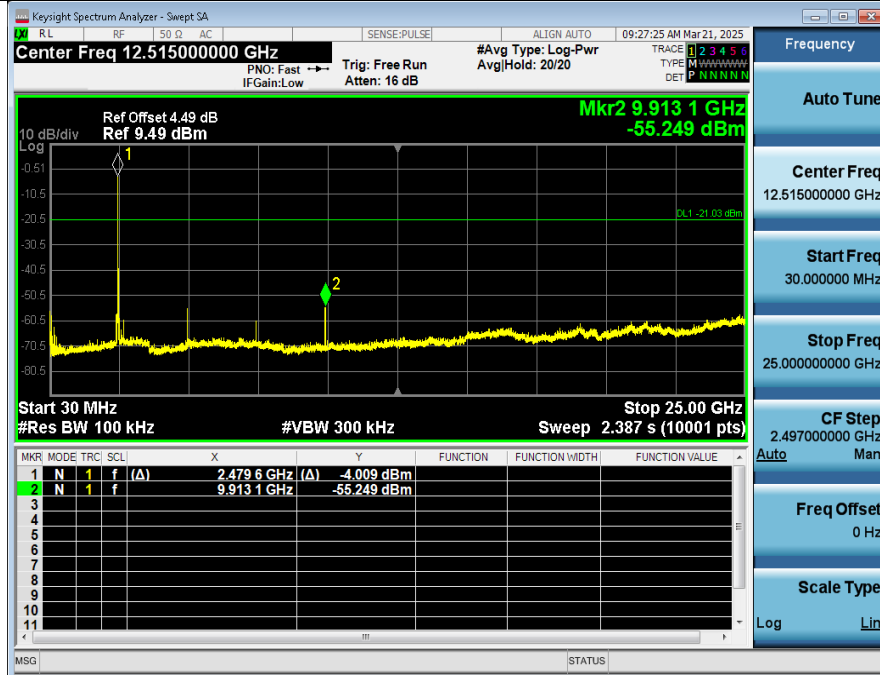


1_Reference_Level_NVNT_ANT1_2-DH5_2480_00





2_Spurious_Emissions_NVNT_ANT1_2-DH5_2480_00

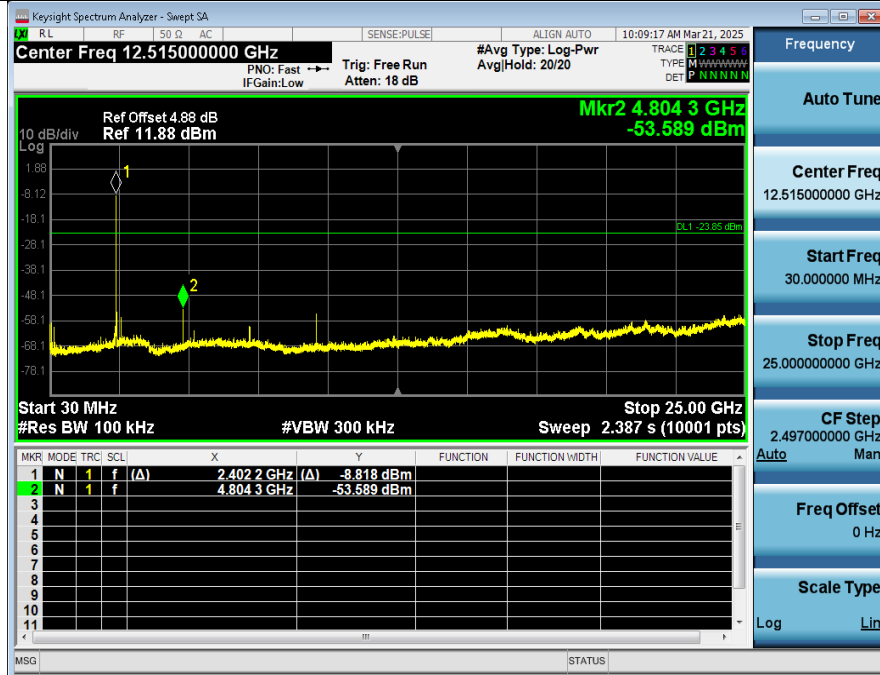


1_Reference_Level_NVNT_ANT1_3-DH5_2402_00





2_Spurious_Emissions_NVNT_ANT1_3-DH5_2402_00

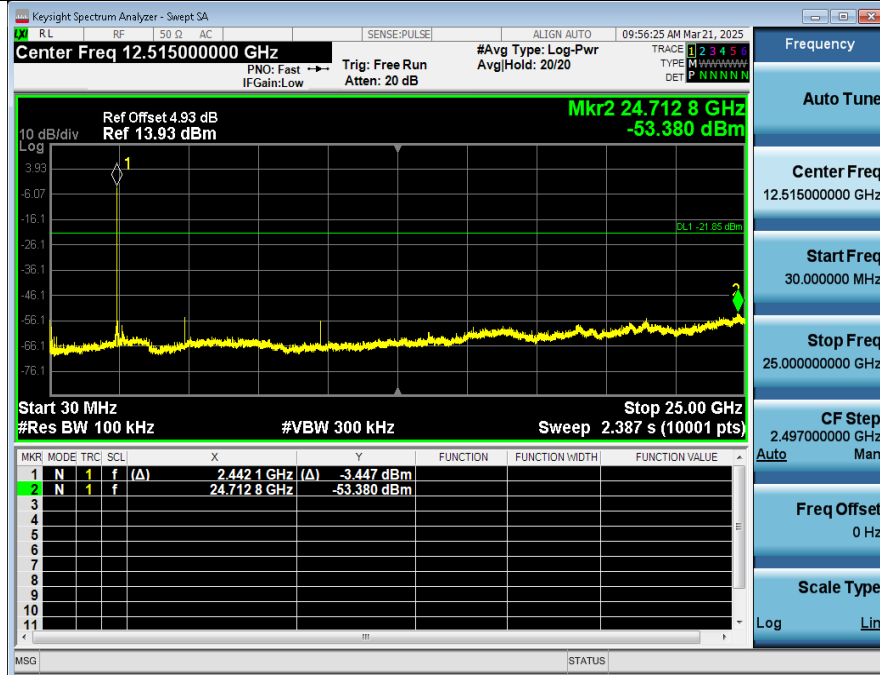


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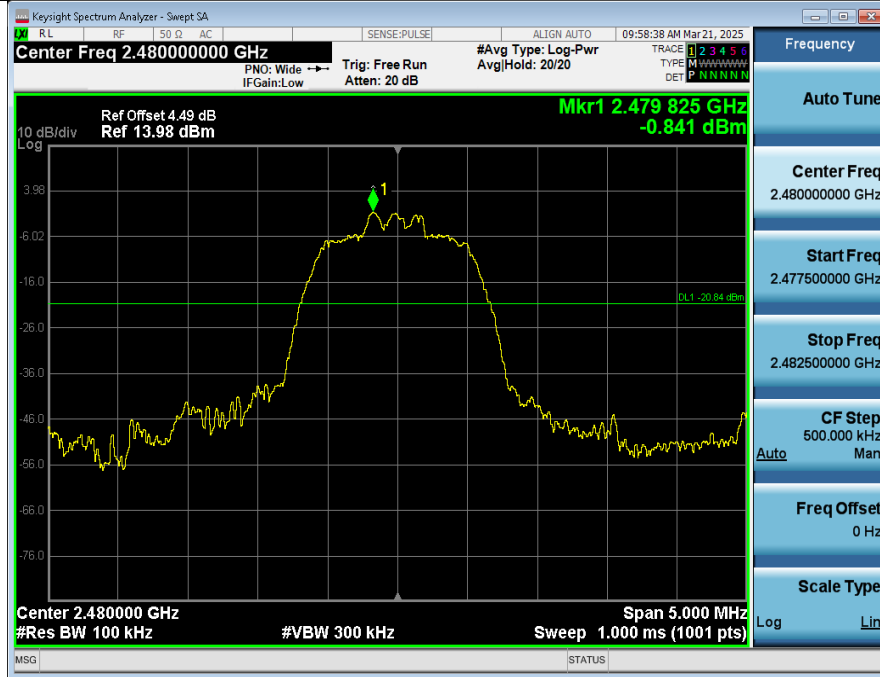


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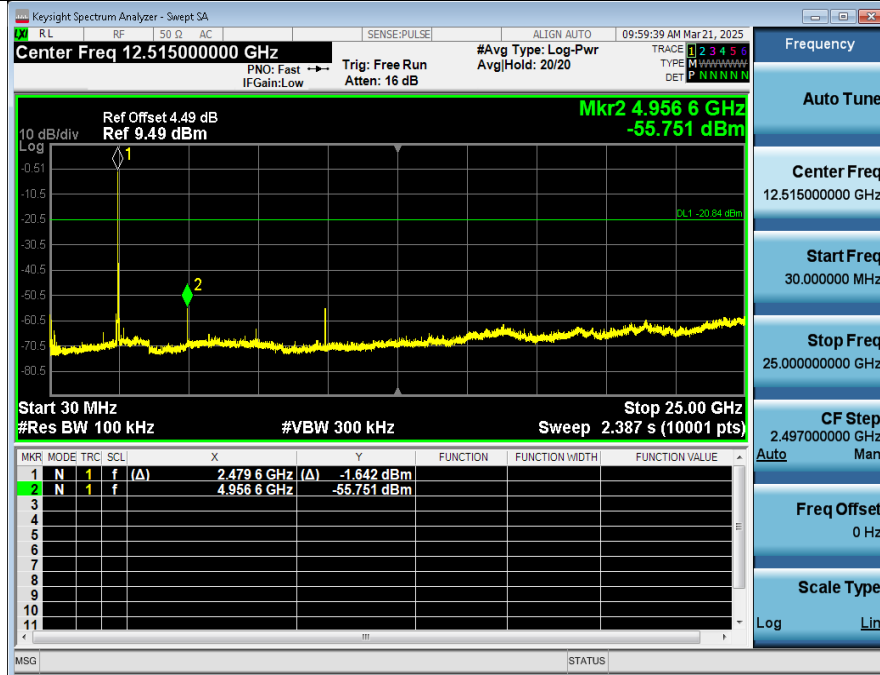


1_Reference_Level_NVNT_ANT1_3-DH5_2480_00





2 Spurious Emissions NVNT ANT1 3-DH5 2480 00



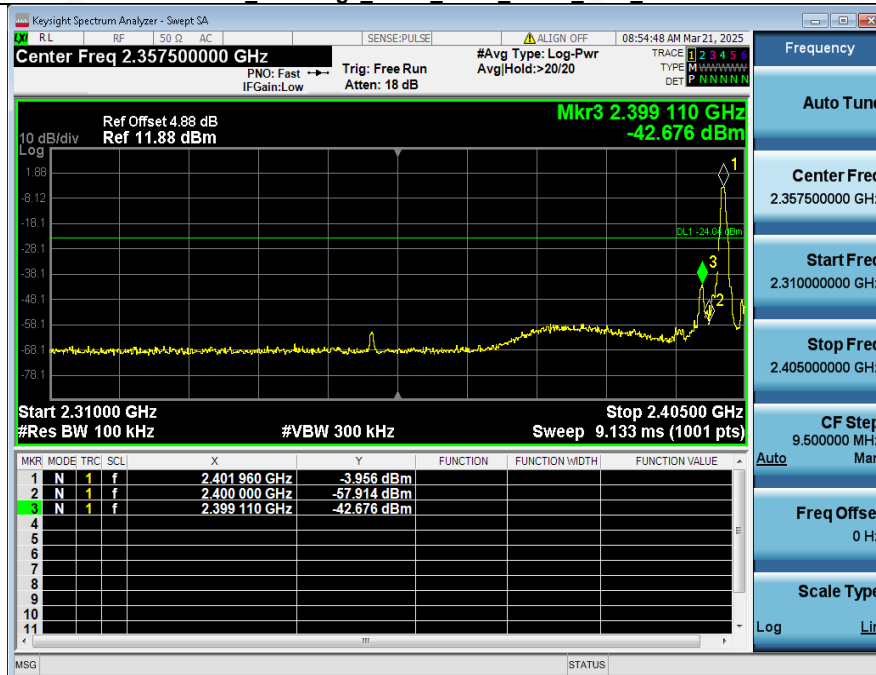
6. Bandedge

Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Bandedge MAX.Value	Limit	Result
NVNT	ANT1	1-DH5	2402.00	-4.041	-42.676	-24.041	Pass
NVNT	ANT1	1-DH5	Hopping_LCH	-0.774	-43.861	-20.774	Pass
NVNT	ANT1	1-DH5	2480.00	-0.968	-45.891	-20.968	Pass
NVNT	ANT1	1-DH5	Hopping_HCH	-1.239	-48.350	-21.239	Pass
NVNT	ANT1	2-DH5	2402.00	-3.884	-43.010	-23.884	Pass
NVNT	ANT1	2-DH5	Hopping_LCH	-0.503	-42.985	-20.503	Pass
NVNT	ANT1	2-DH5	2480.00	-1.034	-47.161	-21.034	Pass
NVNT	ANT1	2-DH5	Hopping_HCH	-0.951	-53.607	-20.951	Pass
NVNT	ANT1	3-DH5	2402.00	-3.853	-42.352	-23.853	Pass
NVNT	ANT1	3-DH5	Hopping_LCH	-1.000	-43.532	-21.000	Pass
NVNT	ANT1	3-DH5	2480.00	-0.841	-46.683	-20.841	Pass
NVNT	ANT1	3-DH5	Hopping_HCH	-1.008	-51.314	-21.008	Pass

1 Reference Level NVNT ANT1 1-DH5 2402_00

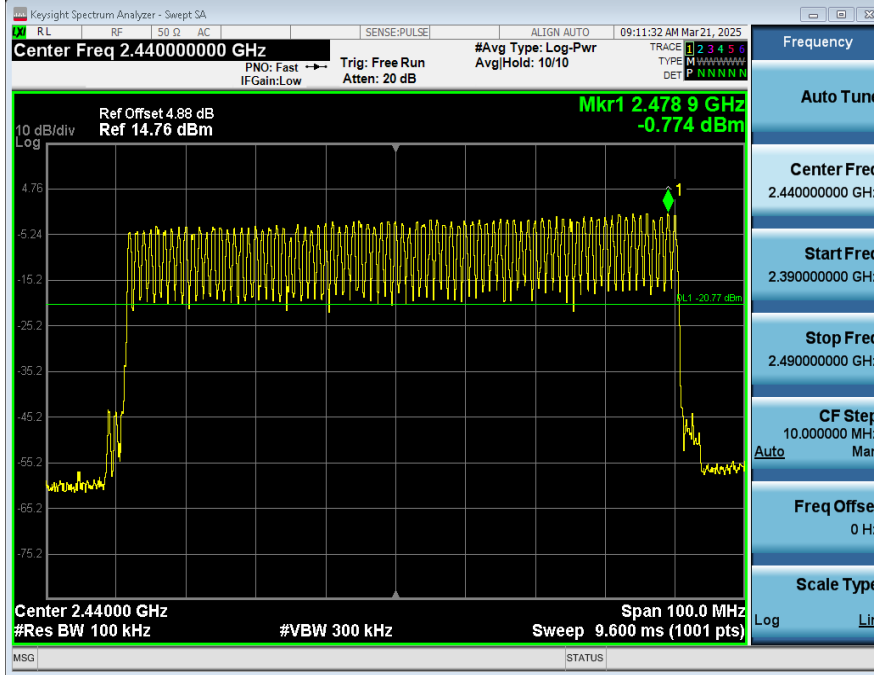


2 Bandedge NVNT ANT1 1-DH5 2402_00

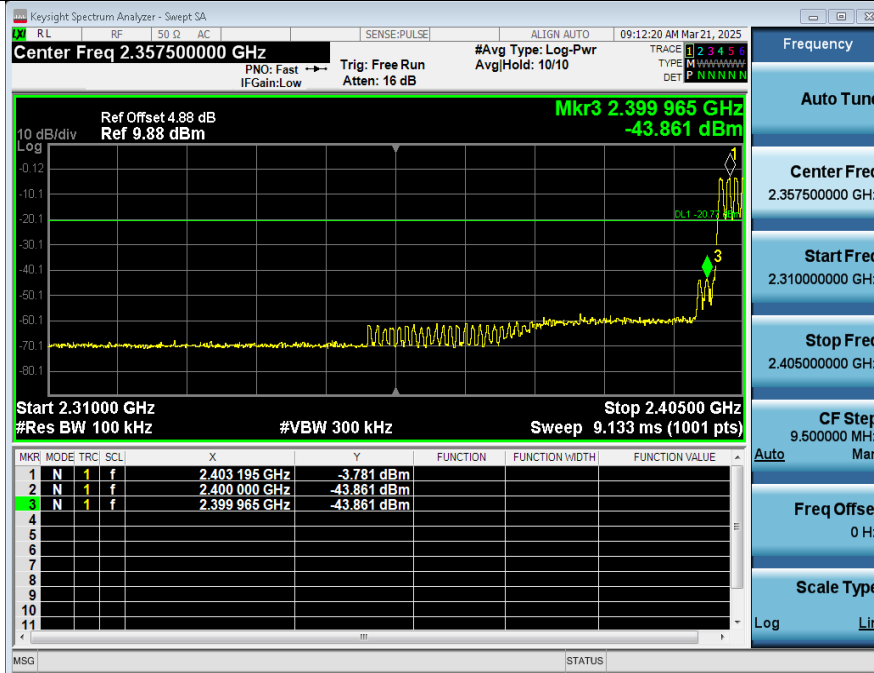


1 Reference Level Hopping NVNT ANT1 1-DH5 Hopping





2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH5_Hopping

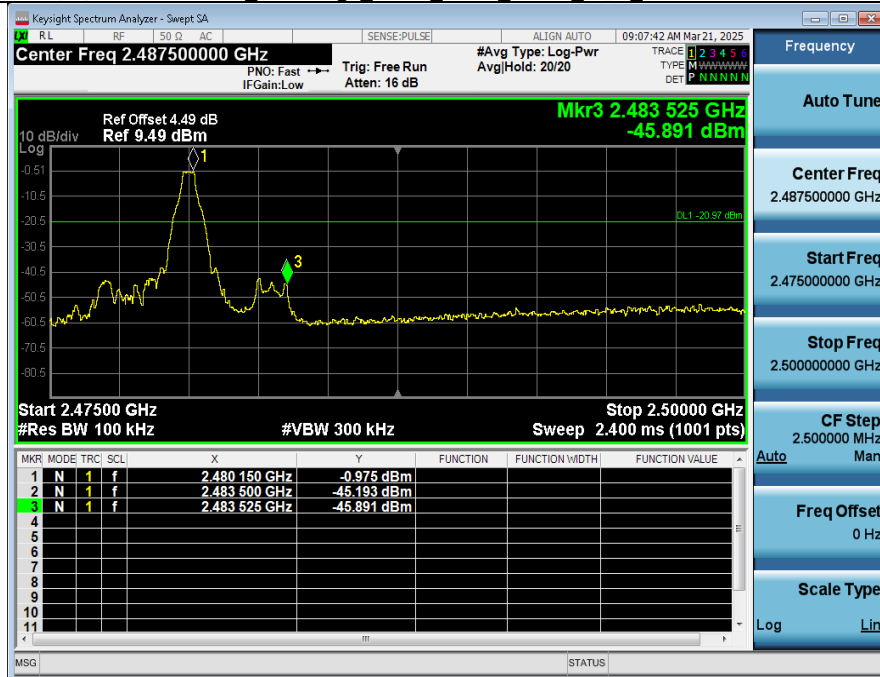


1_Reference_Level_NVNT_ANT1_1-DH5_2480_00



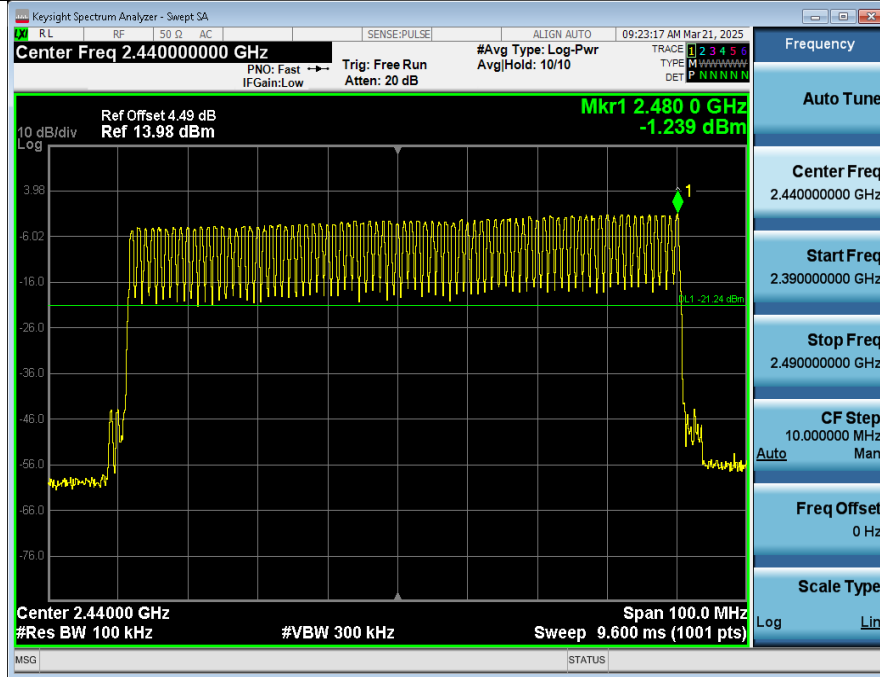


2_Bandedge_NVNT_ANT1_1-DH5_2480_00

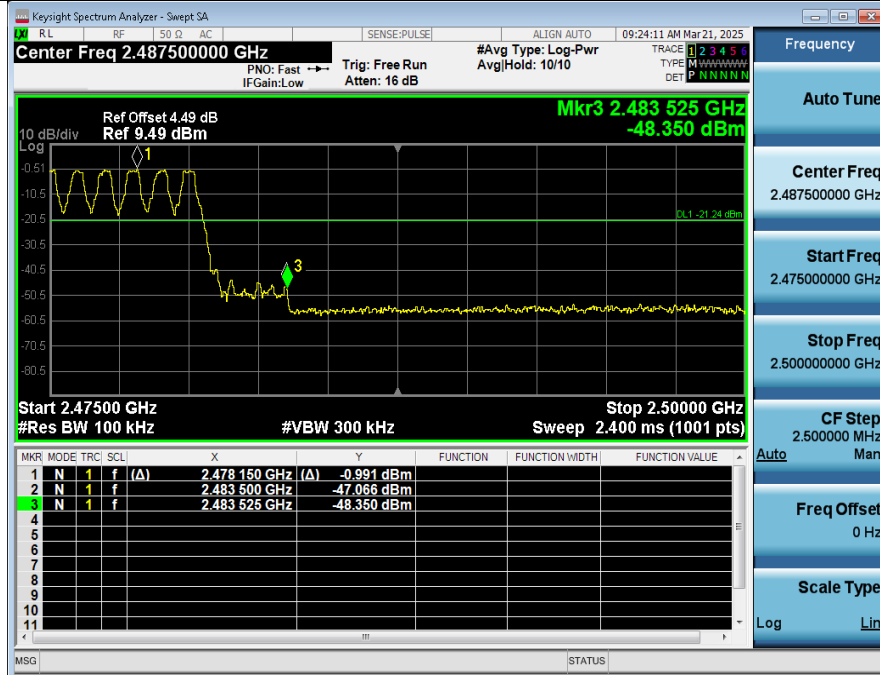


1_Reference_Level_Hopping_NVNT_ANT1_1-DH5_Hopping





2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH5_Hopping

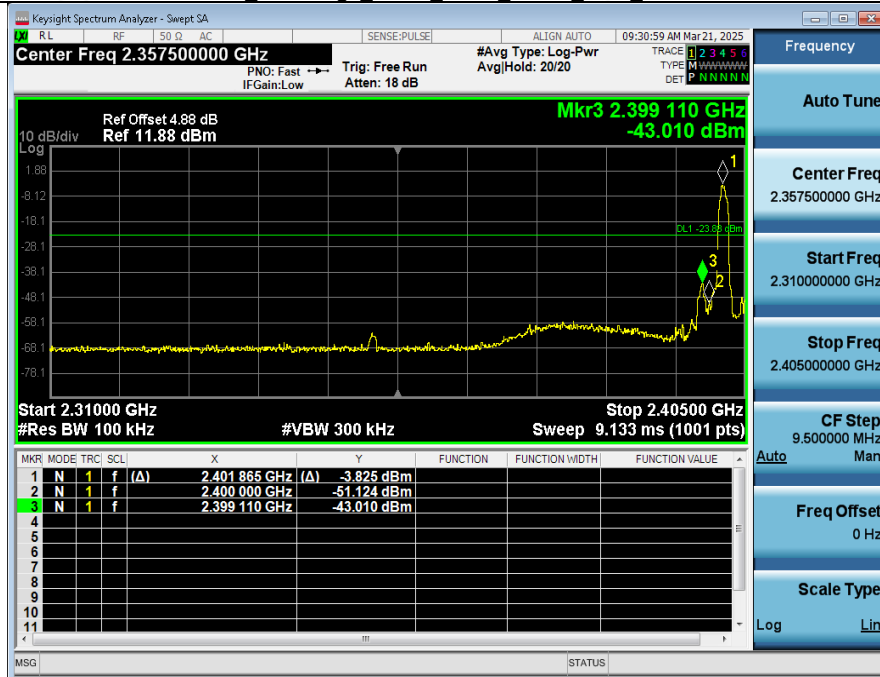


1_Reference_Level_NVNT_ANT1_2-DH5_2402_00



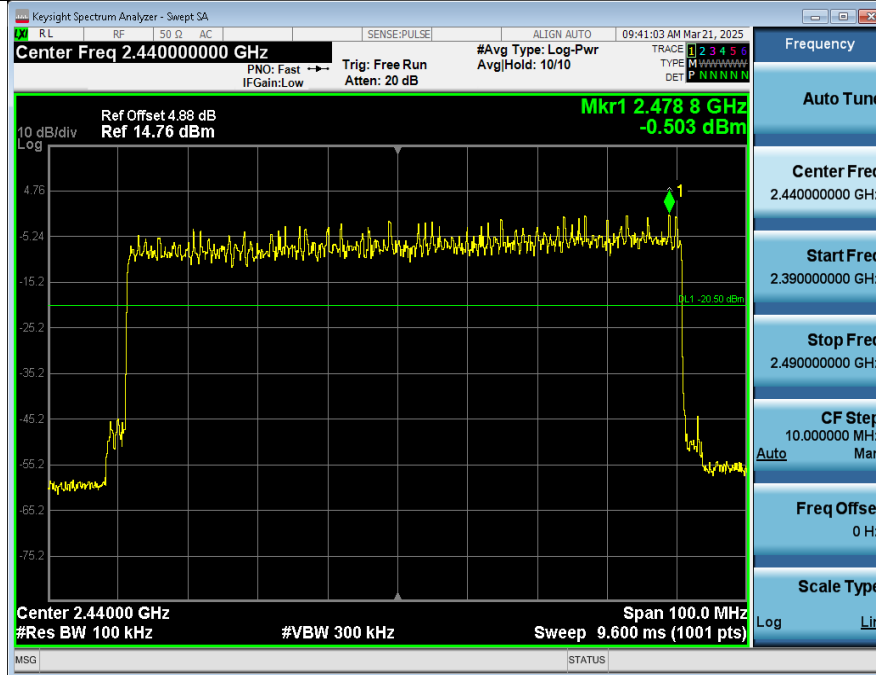


2_Bandedge_NVNT_ANT1_2-DH5_2402_00

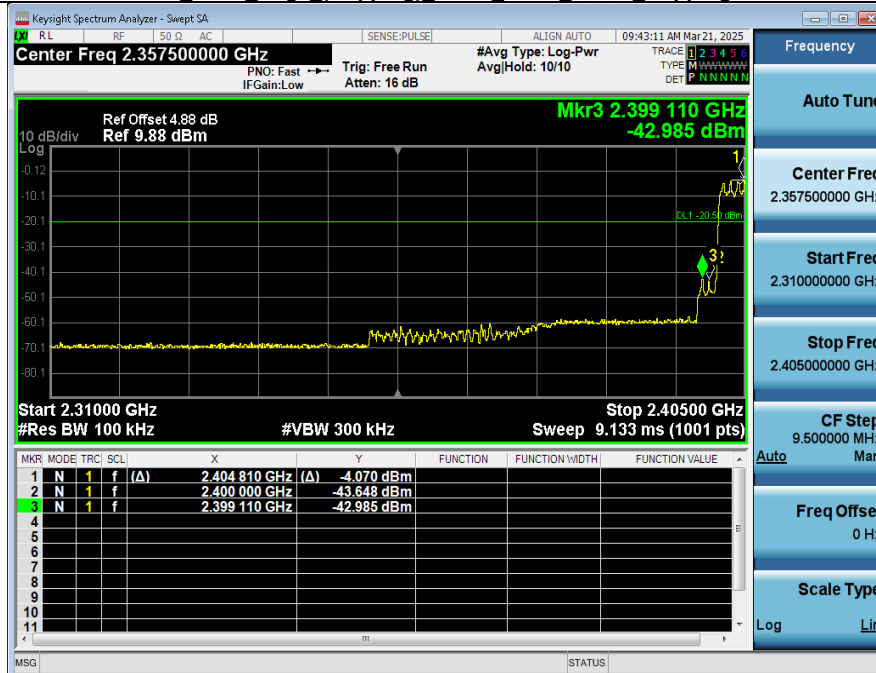


1_Reference_Level_Hopping_NVNT_ANT1_2-DH5_Hopping





2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH5_Hopping

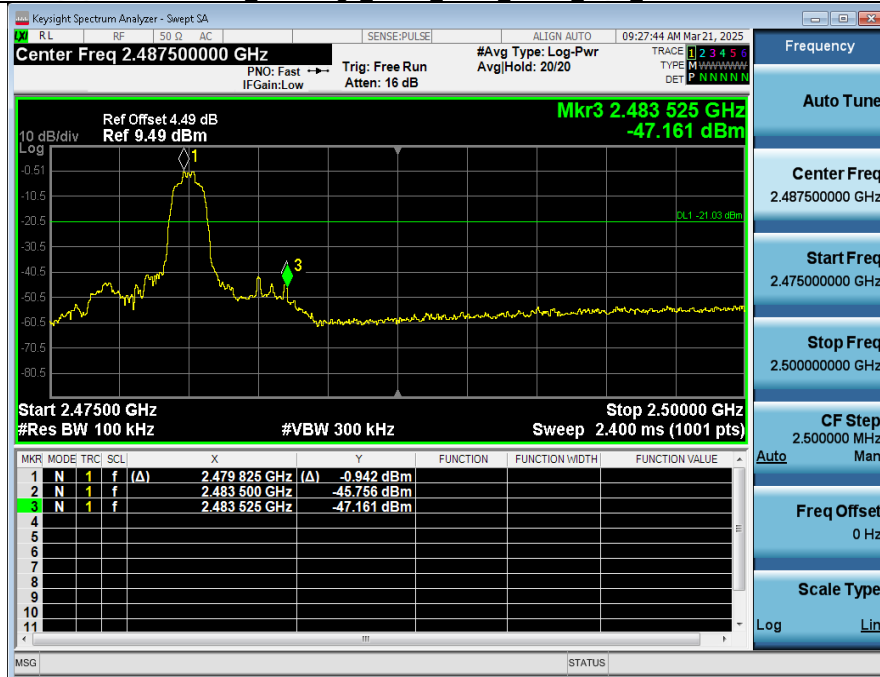


1_Reference_Level_NVNT_ANT1_2-DH5_2480_00



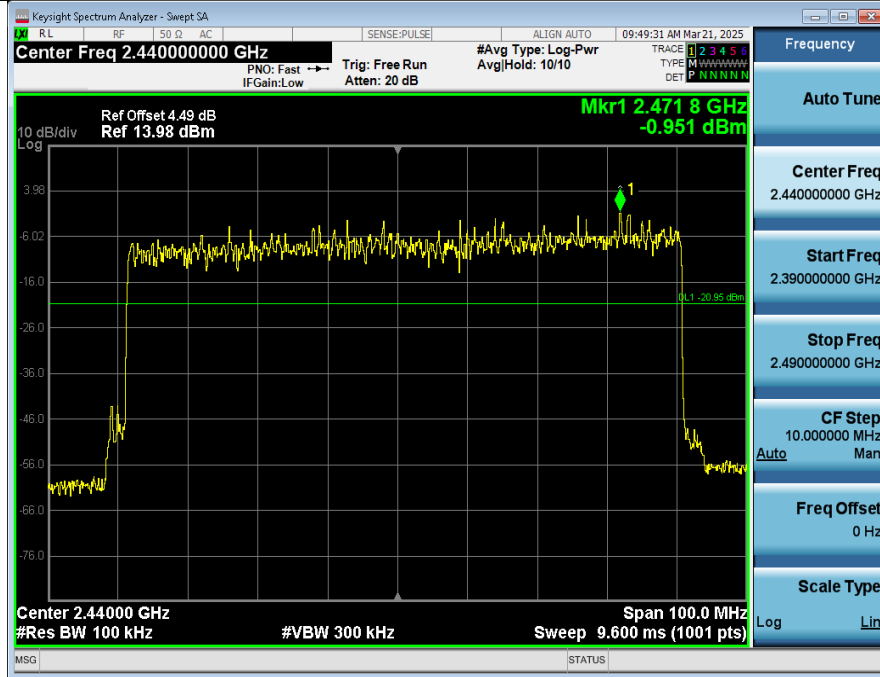


2_Bandedge_NVNT_ANT1_2-DH5_2480_00

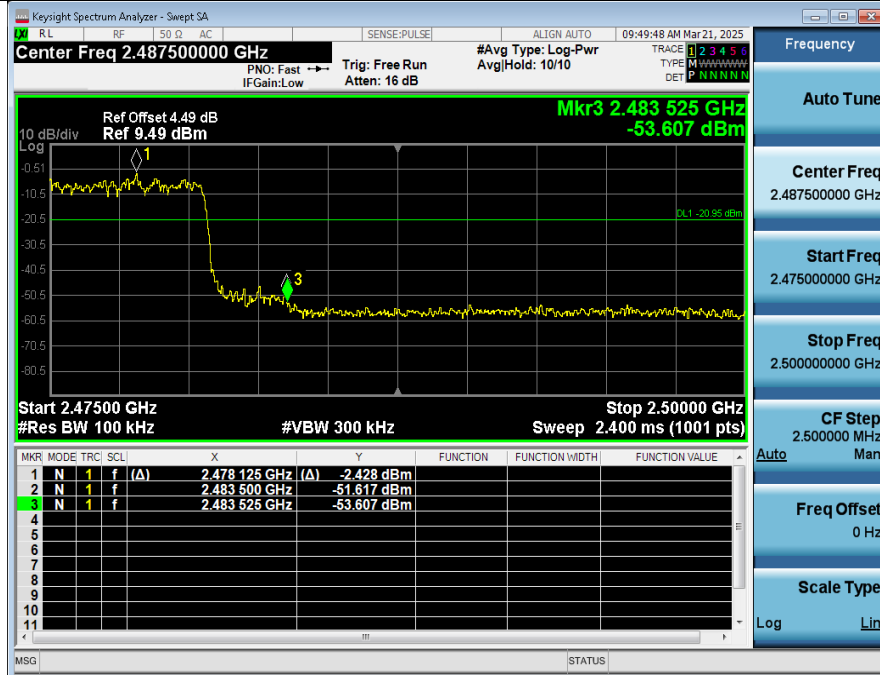


1_Reference_Level_Hopping_NVNT_ANT1_2-DH5_Hopping





2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH5_Hopping

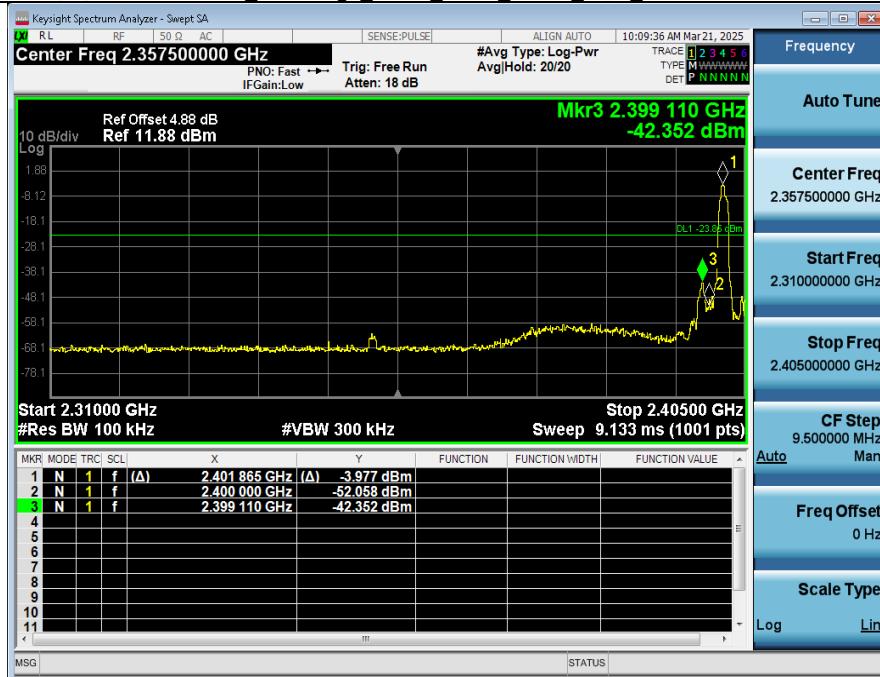


1_Reference_Level_NVNT_ANT1_3-DH5_2402_00



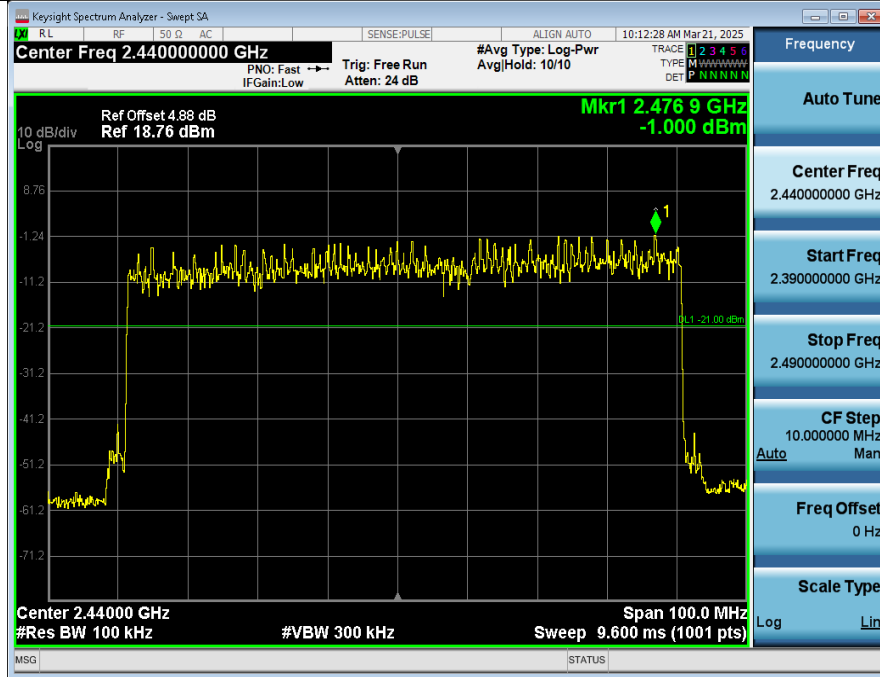


2_Bandedge_NVNT_ANT1_3-DH5_2402_00

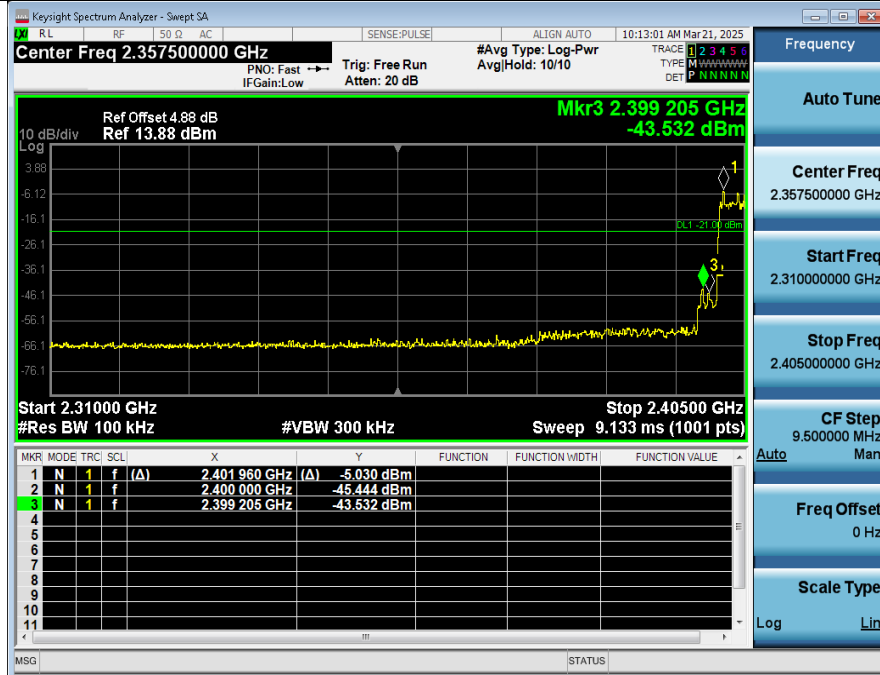


1_Reference_Level_Hopping_NVNT_ANT1_3-DH5_Hopping



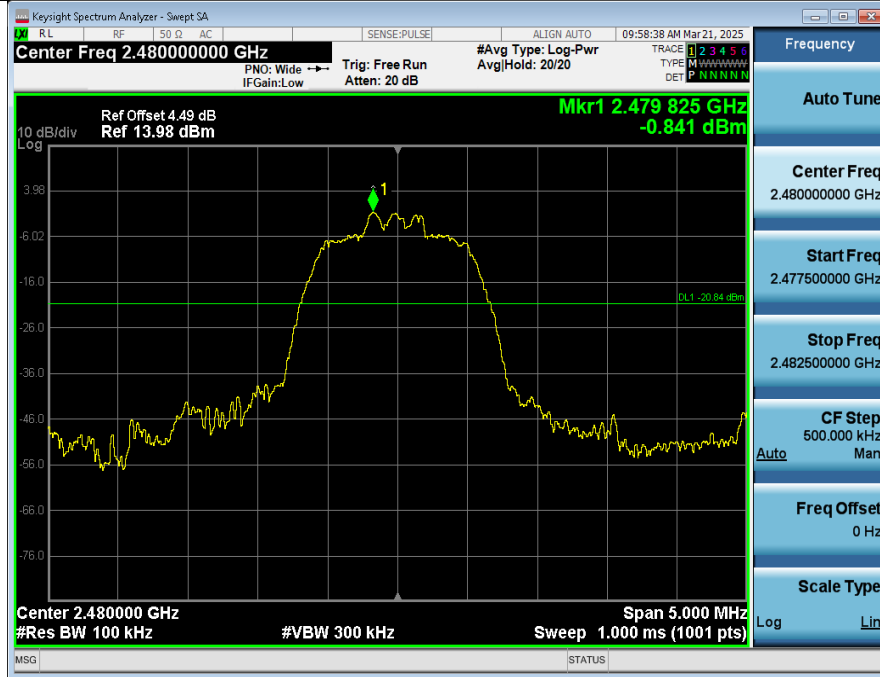


2_Band_Edge_(Hopping)_NVNT_ANT1_3-DH5_Hopping

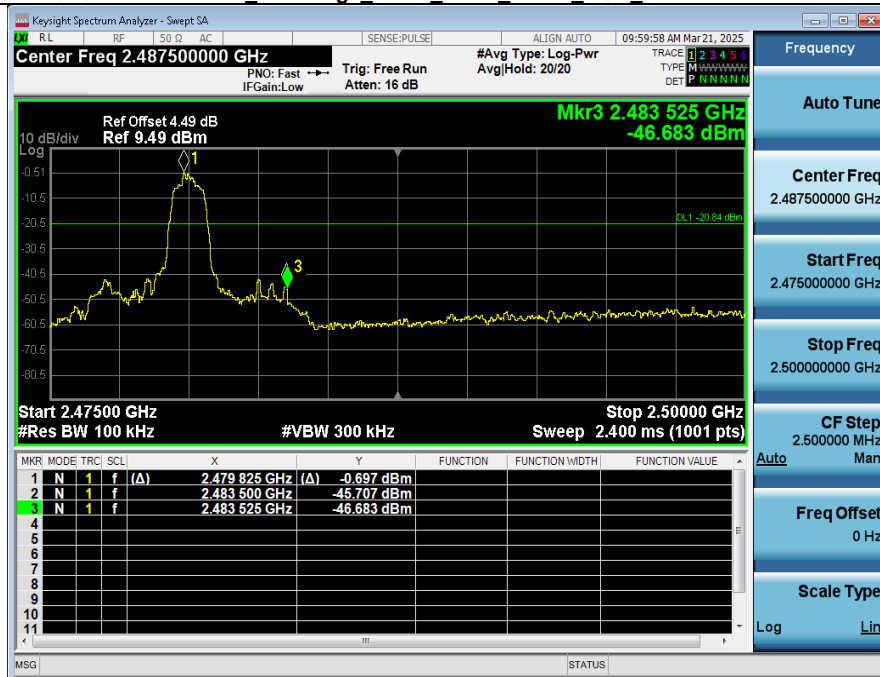


1_Reference_Level_NVNT_ANT1_3-DH5_2480_00



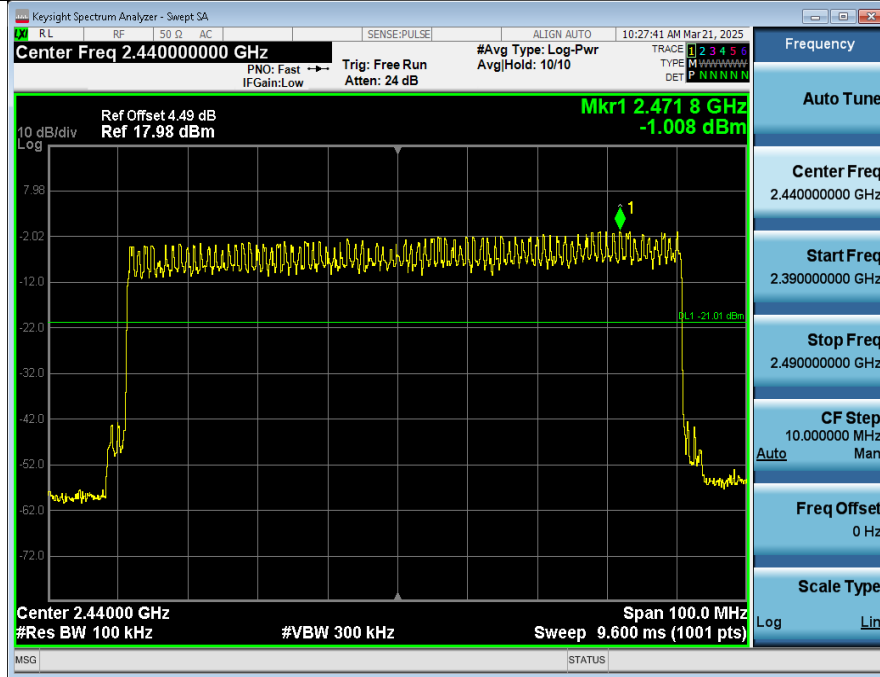


2_Bandedge_NVNT_ANT1_3-DH5_2480_00

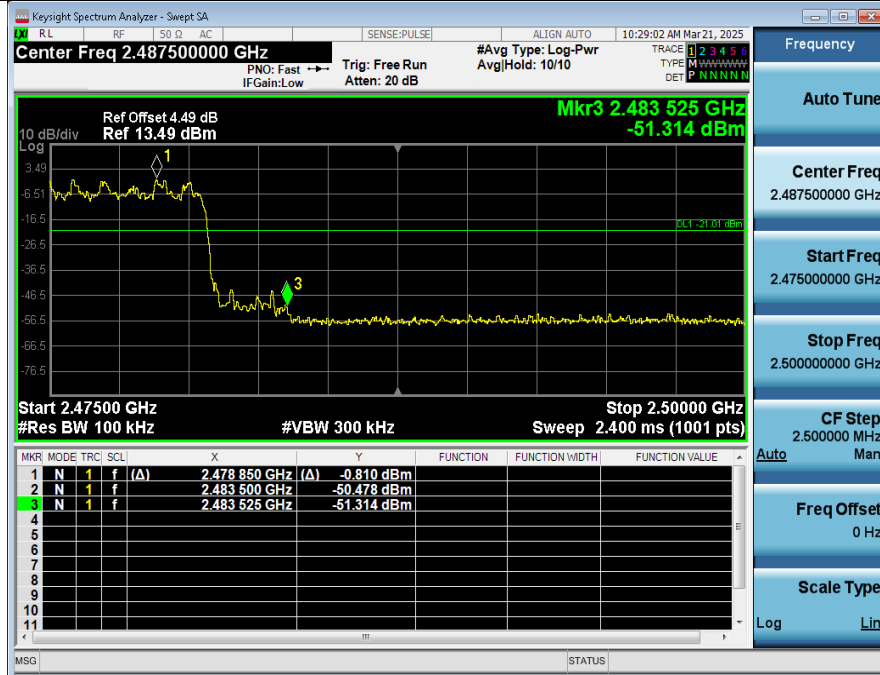


1_Reference_Level_Hopping_NVNT_ANT1_3-DH5_Hopping





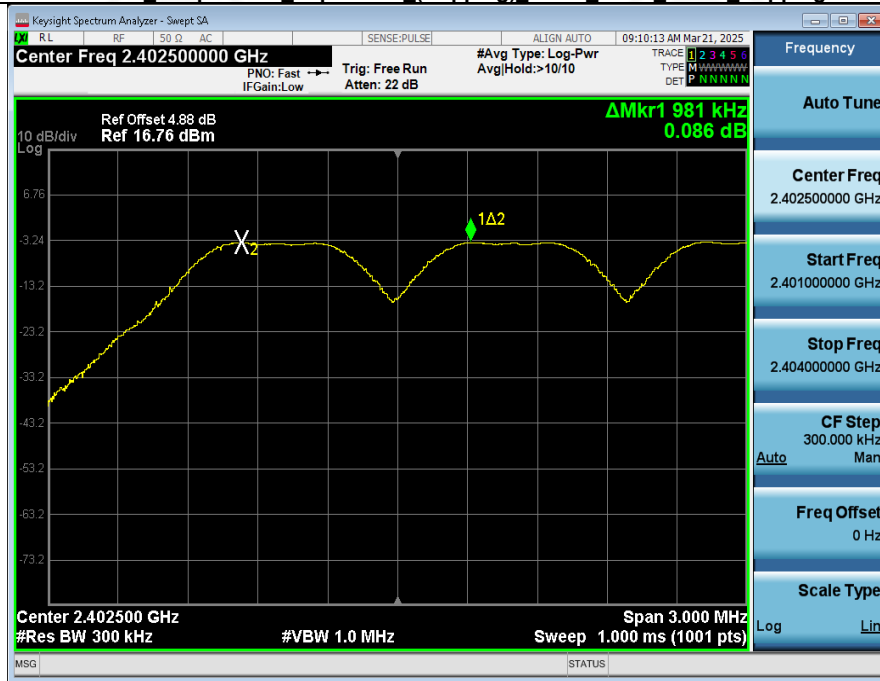
2_Band_Edge_(Hopping)_NVNT_ANT1_3-DH5_Hopping



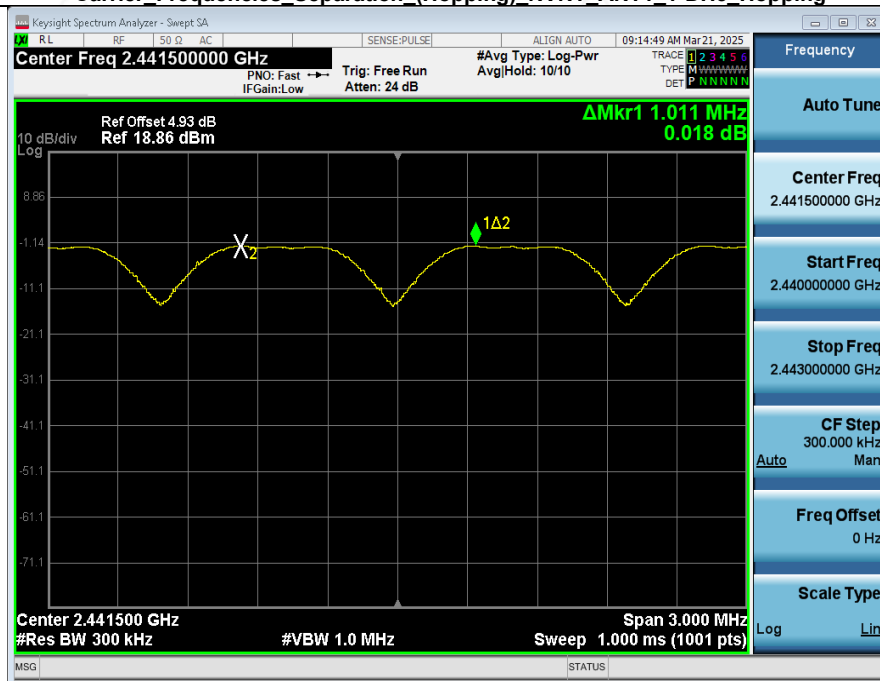
7. Carrier Frequencies Separation (Hopping)

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	2401.831	2402.812	0.98	0.955	Pass
NVNT	ANT1	1-DH5	2441.00	2440.825	2441.836	1.01	0.950	Pass
NVNT	ANT1	1-DH5	2480.00	2478.825	2479.827	1.00	0.953	Pass
NVNT	ANT1	2-DH5	2402.00	2401.828	2402.824	1.00	0.869	Pass
NVNT	ANT1	2-DH5	2441.00	2440.834	2442.124	1.29	0.857	Pass
NVNT	ANT1	2-DH5	2480.00	2478.801	2479.827	1.03	0.870	Pass
NVNT	ANT1	3-DH5	2402.00	2401.801	2403.181	1.38	0.851	Pass
NVNT	ANT1	3-DH5	2441.00	2440.828	2441.800	0.97	0.854	Pass
NVNT	ANT1	3-DH5	2480.00	2478.831	2479.818	0.99	0.852	Pass

Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH5_Hopping



Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH5_Hopping

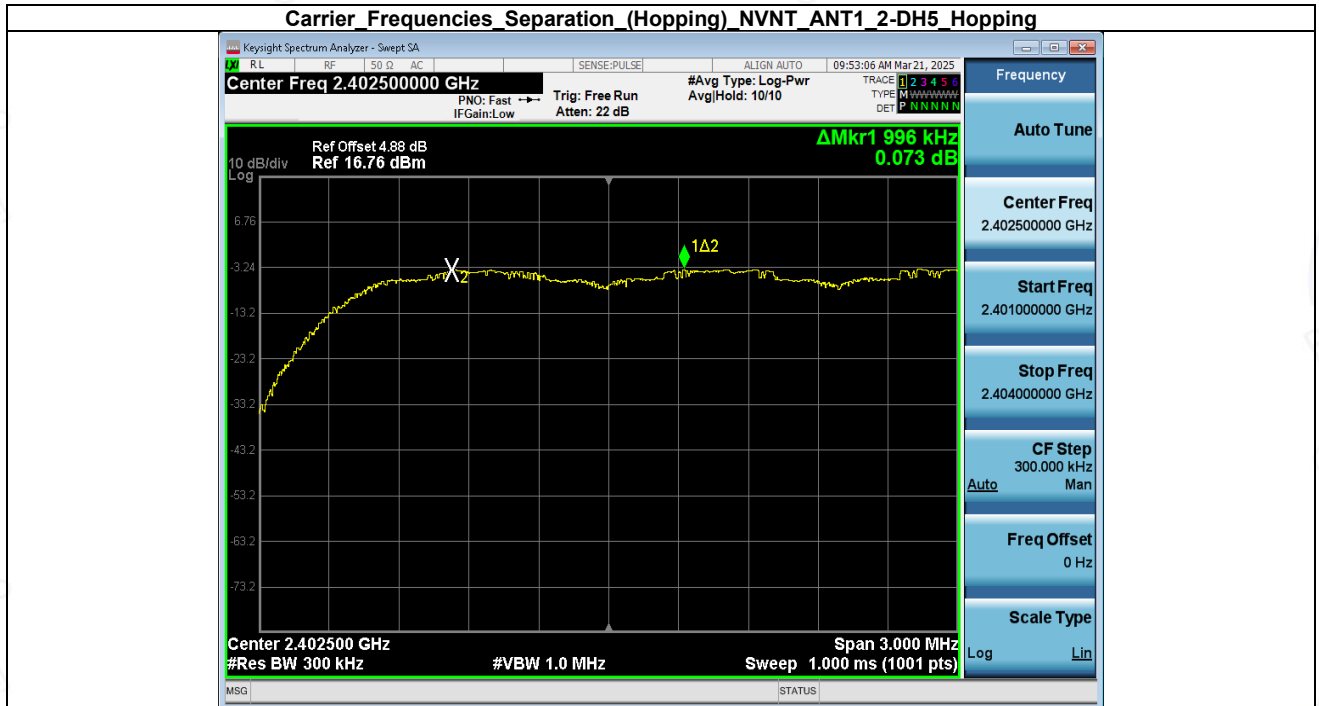


Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH5_Hopping





Carrier Frequencies Separation (Hopping) NVNT ANT1 2-DH5 Hopping



Carrier Frequencies Separation (Hopping) NVNT ANT1 2-DH5 Hopping



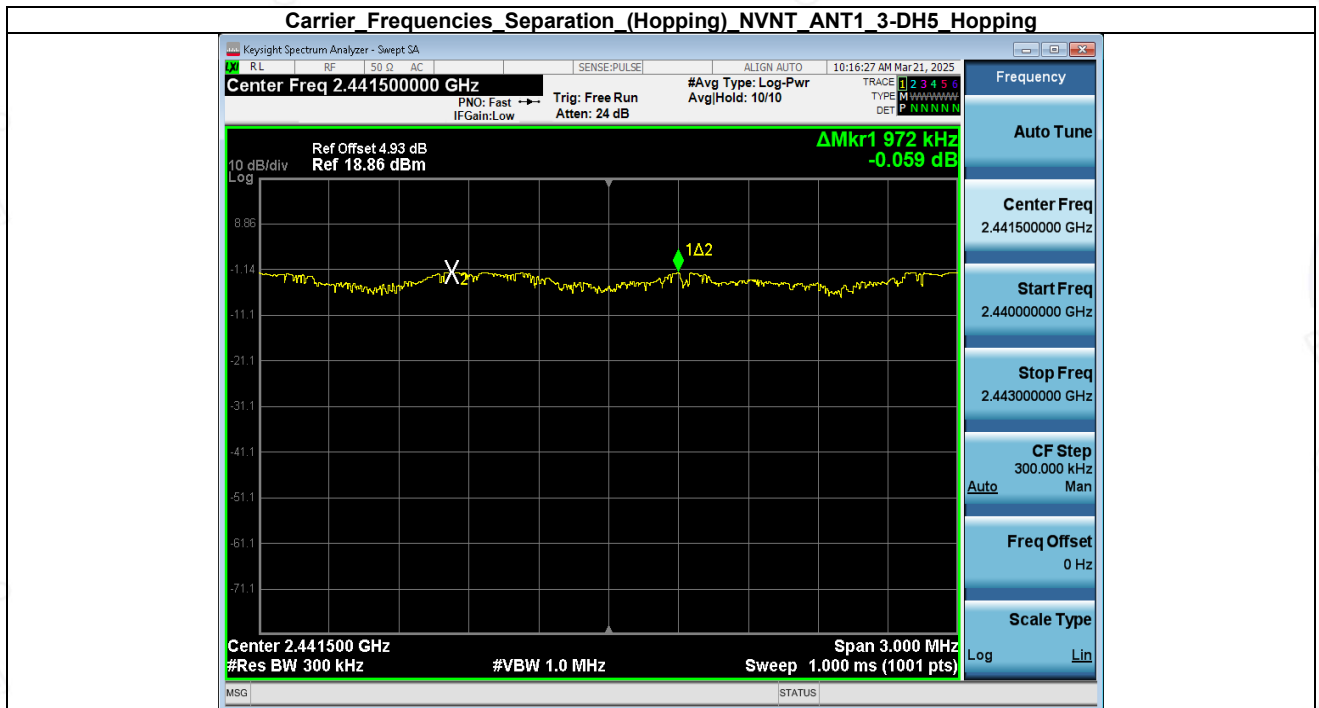


Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_2-DH5_Hopping



Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH5_Hopping





Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH5_Hopping

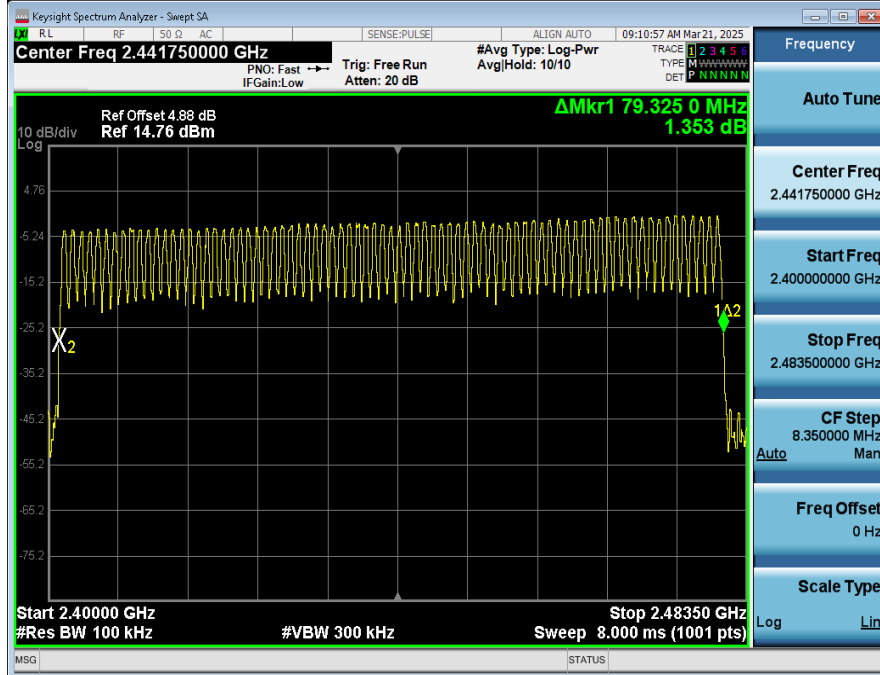




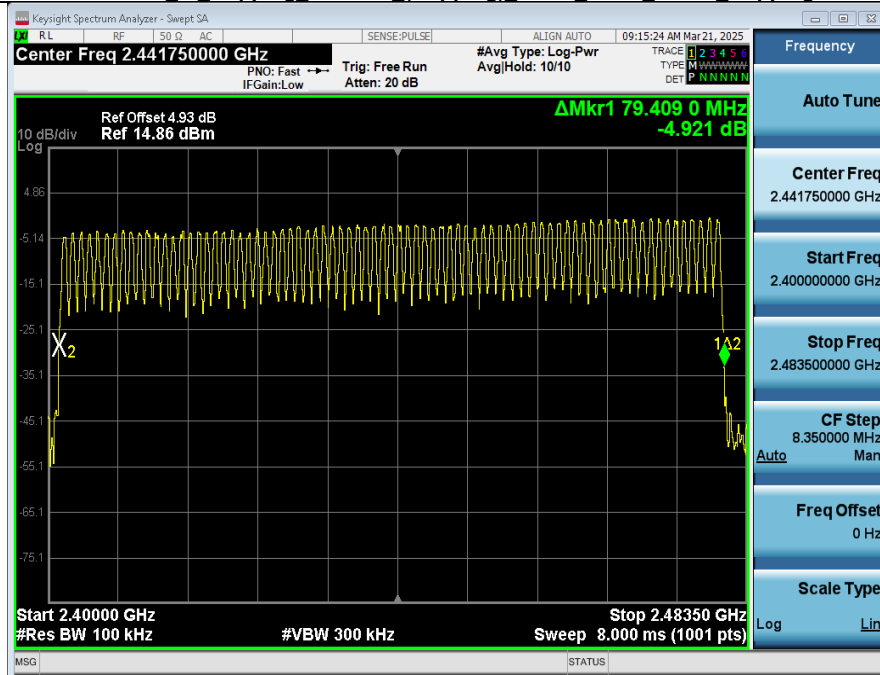
8. Number of Hopping Channel (Hopping)

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

Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_1-DH5_Hopping

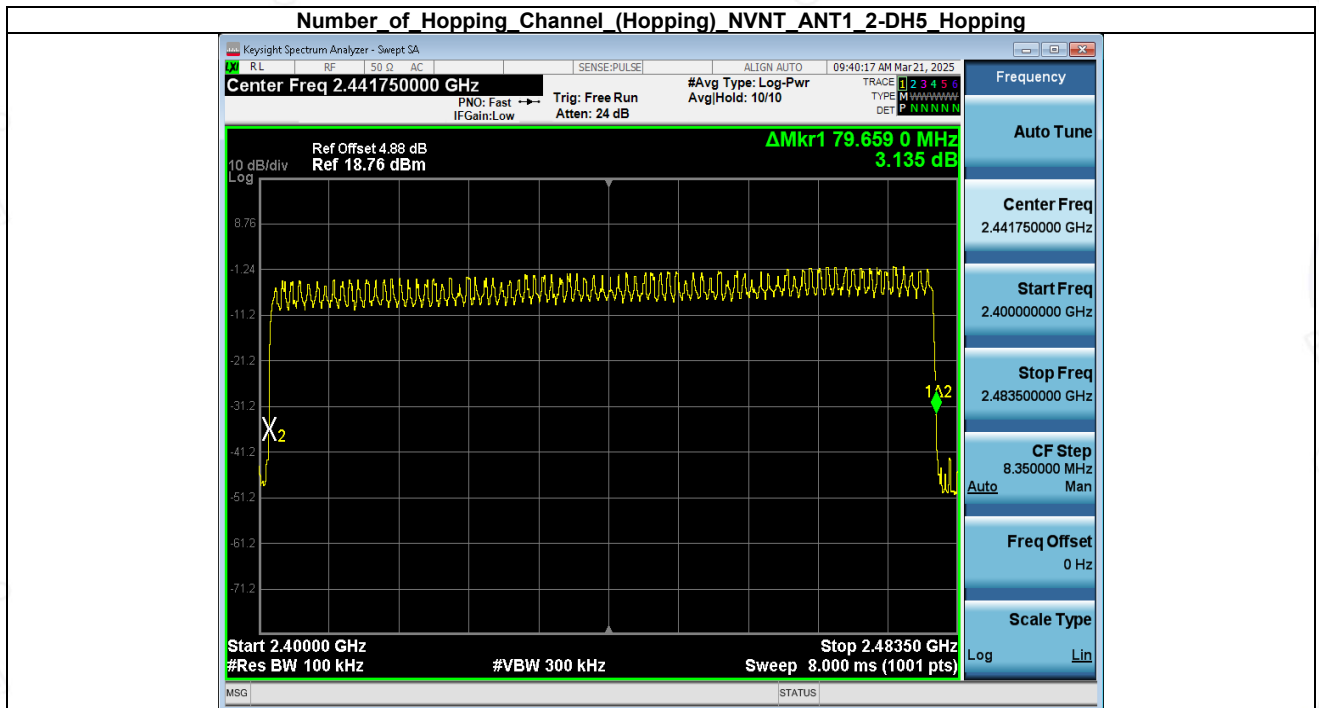


Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_1-DH5_Hopping



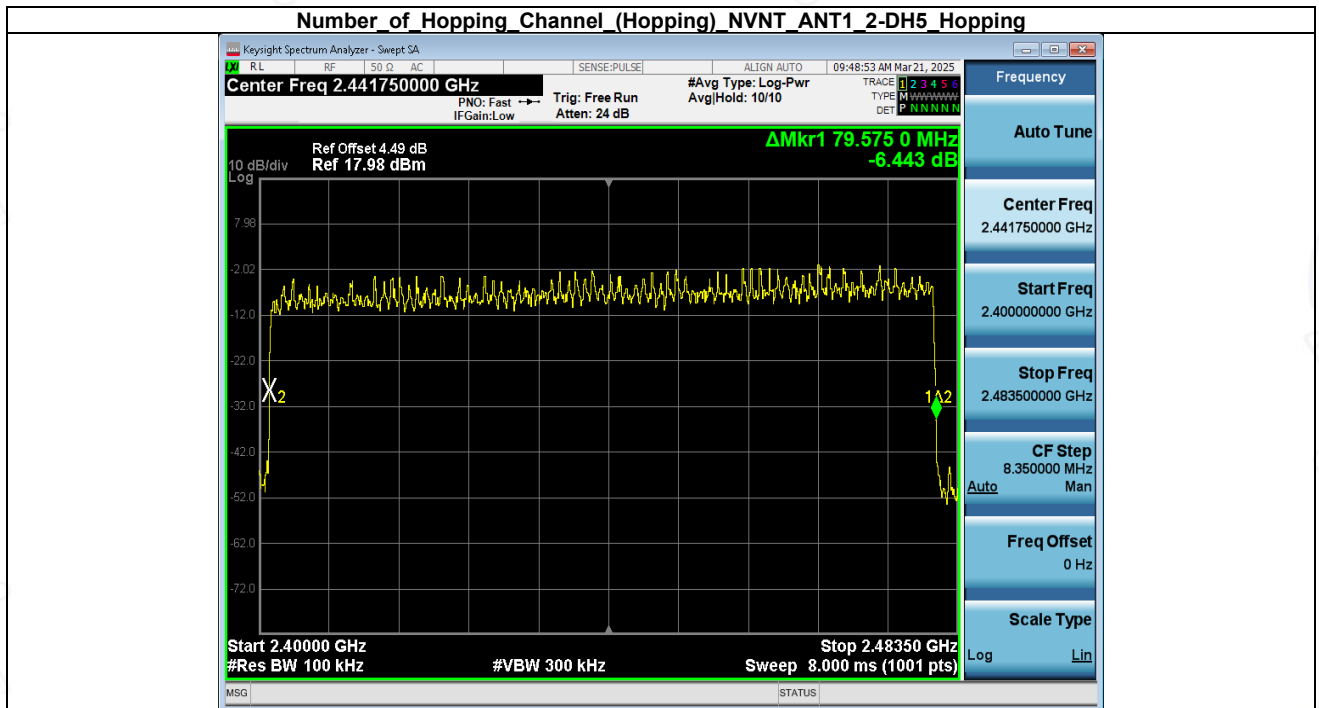
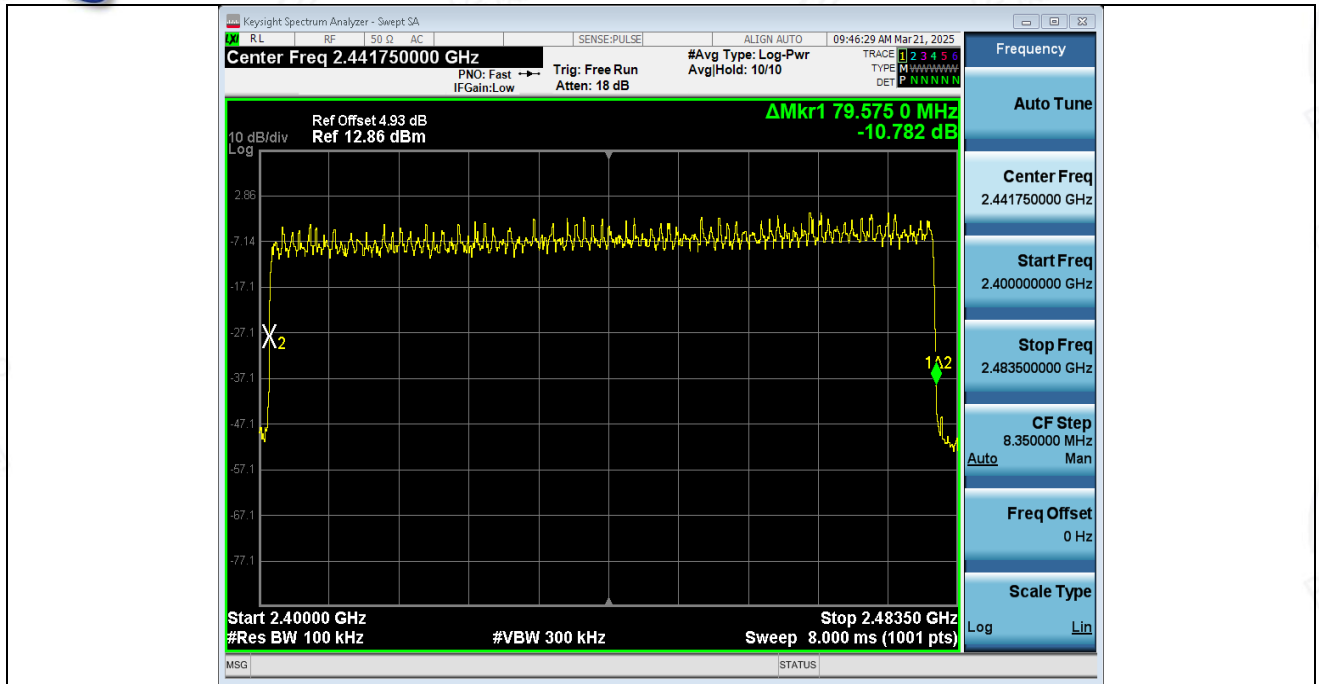
Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_1-DH5_Hopping





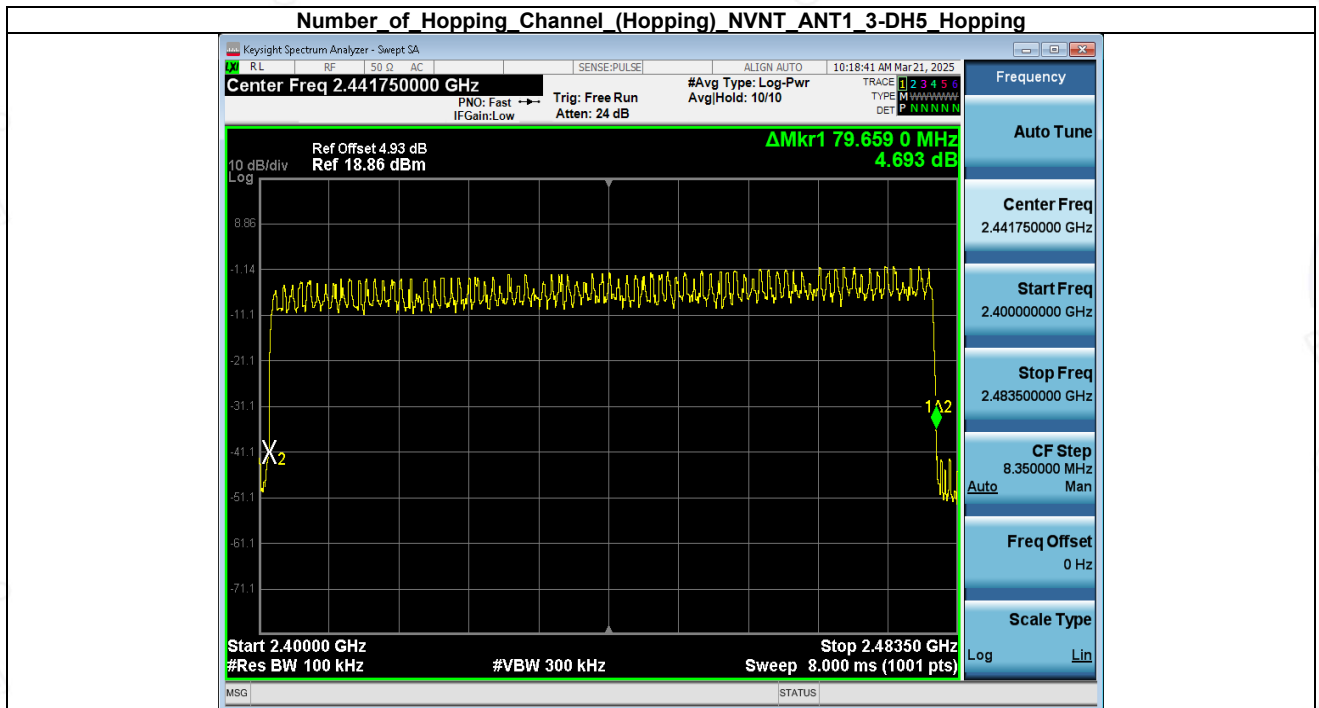
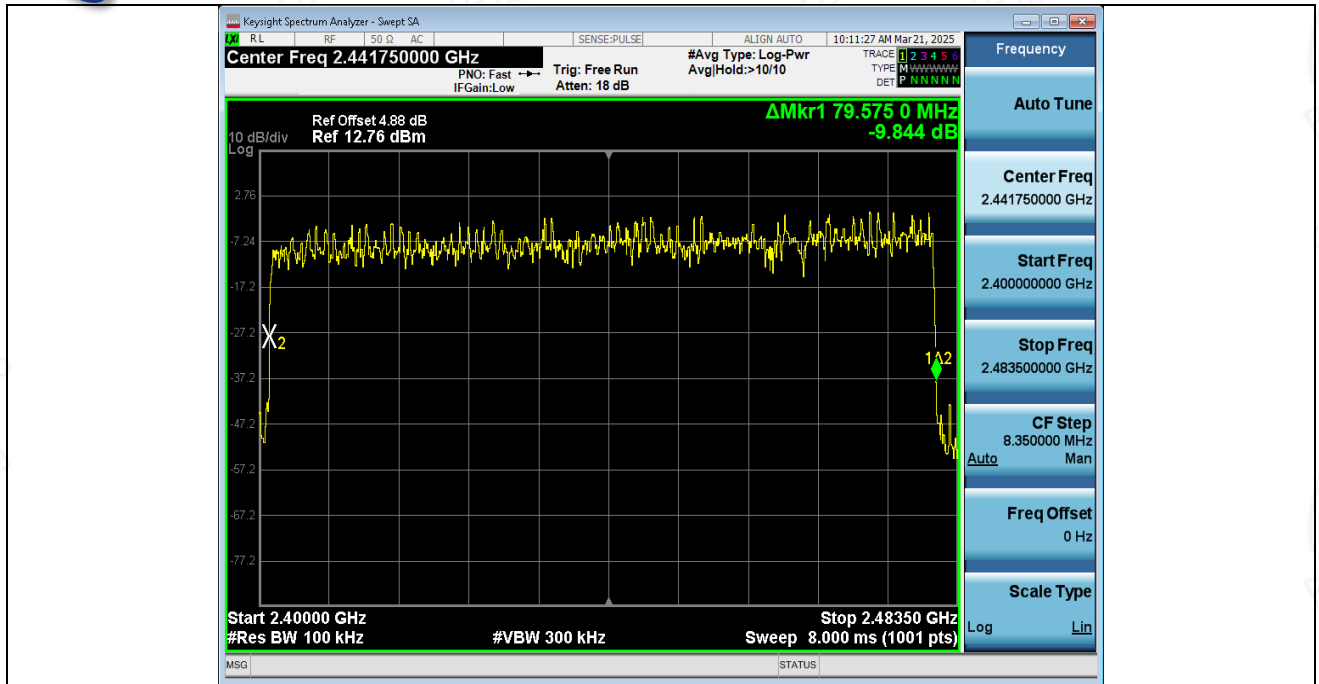
Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_2-DH5_Hopping





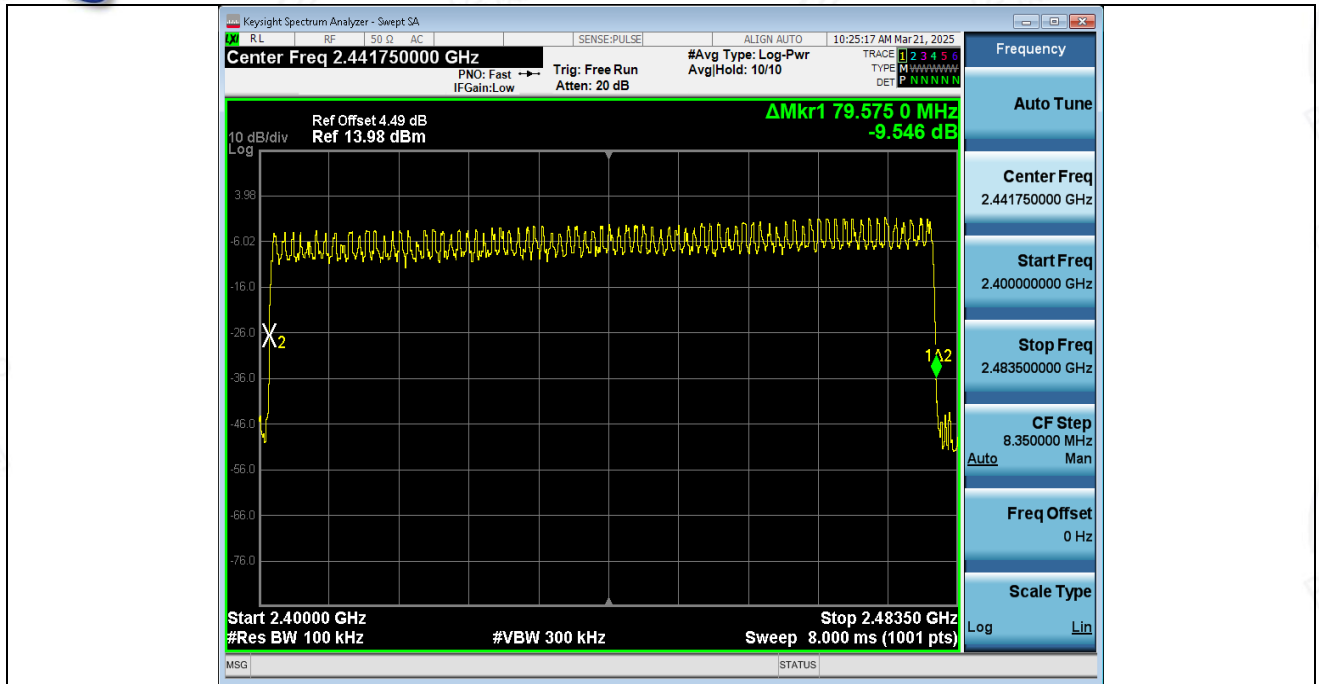
Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_3-DH5_Hopping





Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_3-DH5_Hopping

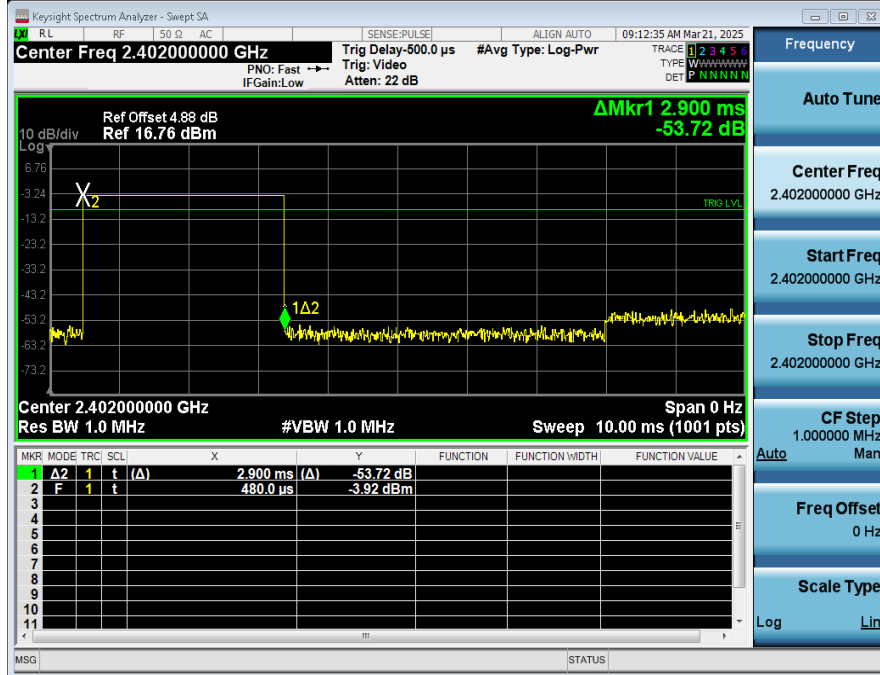




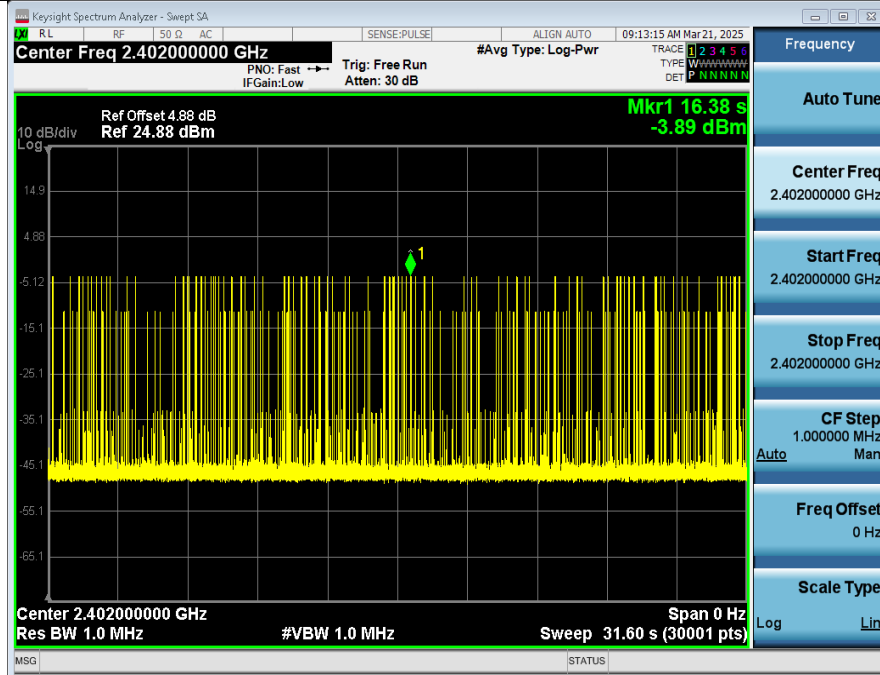
9. Dwell Time (Hopping)

Condition	Antenna	Packet Type	Pulse Time(ms)	Hops	Dwell Time(ms)	Limit(s)	Result
NVNT	ANT1	1-DH5	2.900	111.00	321.900	0.40	Pass
NVNT	ANT1	1-DH5	2.900	106.00	307.400	0.40	Pass
NVNT	ANT1	1-DH5	2.890	99.00	286.110	0.40	Pass
NVNT	ANT1	2-DH5	2.910	116.00	337.560	0.40	Pass
NVNT	ANT1	2-DH5	2.900	90.00	261.000	0.40	Pass
NVNT	ANT1	2-DH5	2.910	112.00	325.920	0.40	Pass
NVNT	ANT1	3-DH5	0.910	118.00	107.380	0.40	Pass
NVNT	ANT1	3-DH5	0.910	111.00	101.010	0.40	Pass
NVNT	ANT1	3-DH5	0.900	109.00	98.100	0.40	Pass

Dwell Time (Hopping) NVNT ANT1 1-DH5 2402 00 One Burst Time

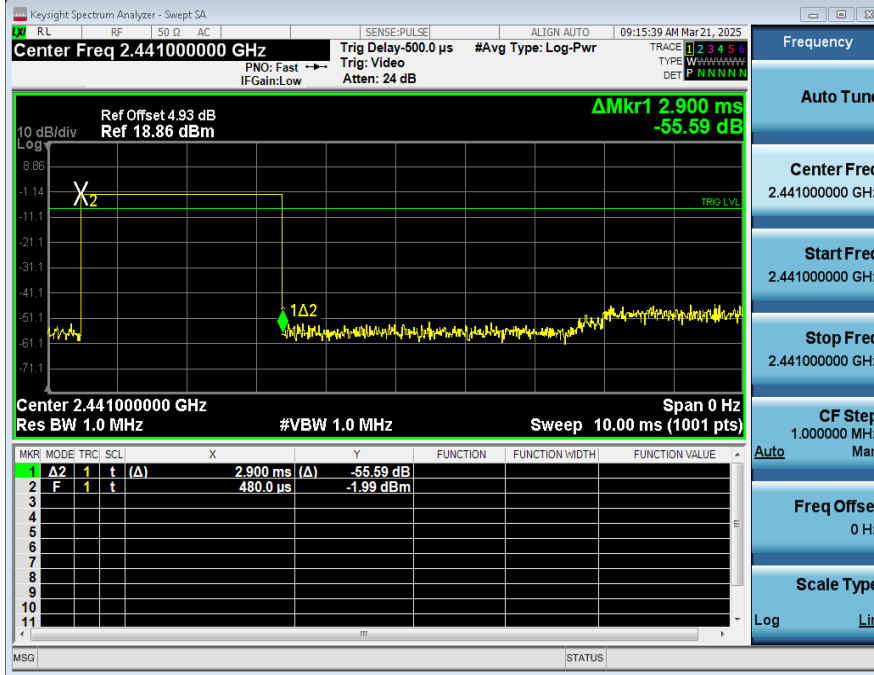


Dwell Time (Hopping) NVNT ANT1 1-DH5 2402 00 Accumulated

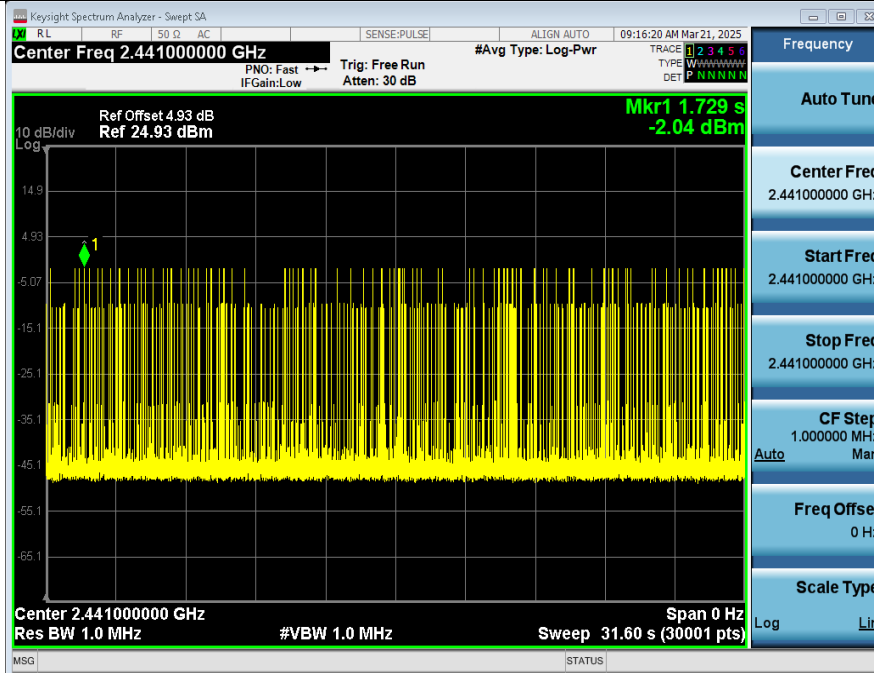


Dwell Time (Hopping) NVNT ANT1 1-DH5 2441 00 One Burst Time



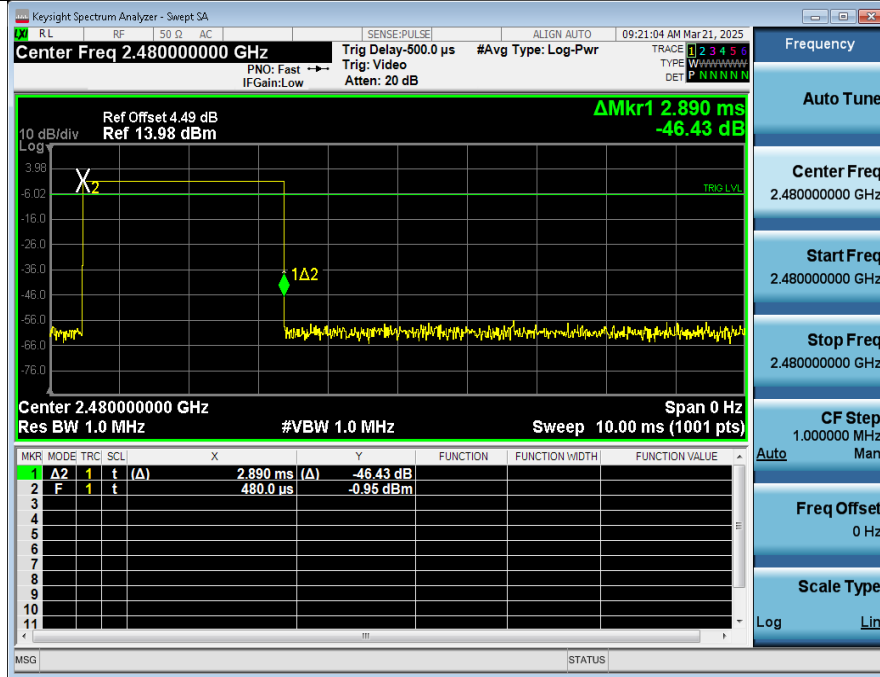


Dwell Time (Hopping) NVNT_ANT1_1-DH5_2441_00_Accumulated

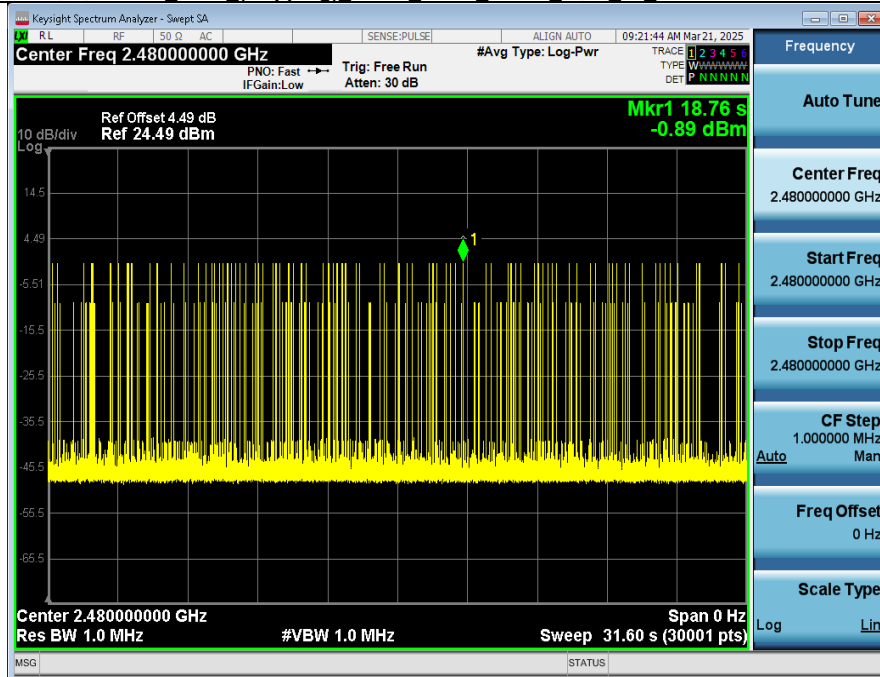


Dwell Time (Hopping) NVNT_ANT1_1-DH5_2480_00_One_Burst_Time



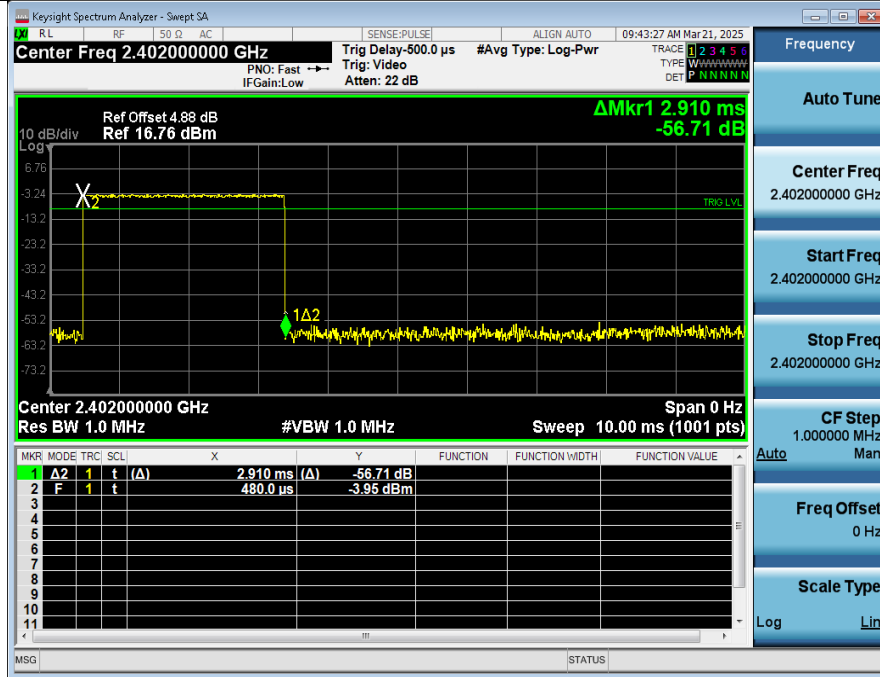


Dwell Time (Hopping) NVNT_ANT1_1-DH5_2480_00_Accumulated

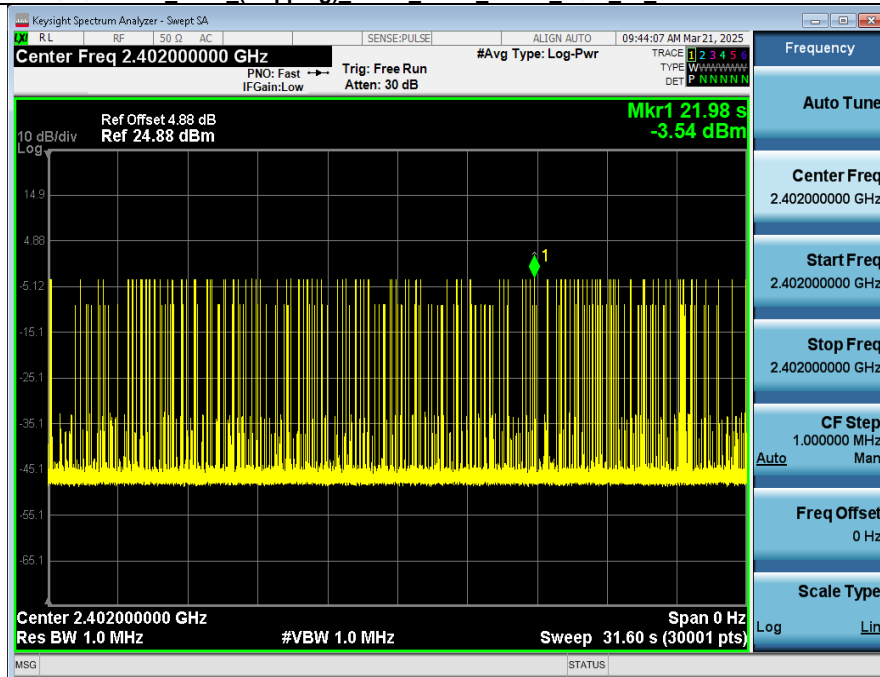


Dwell Time (Hopping) NVNT_ANT1_2-DH5_2402_00_One_Burst_Time



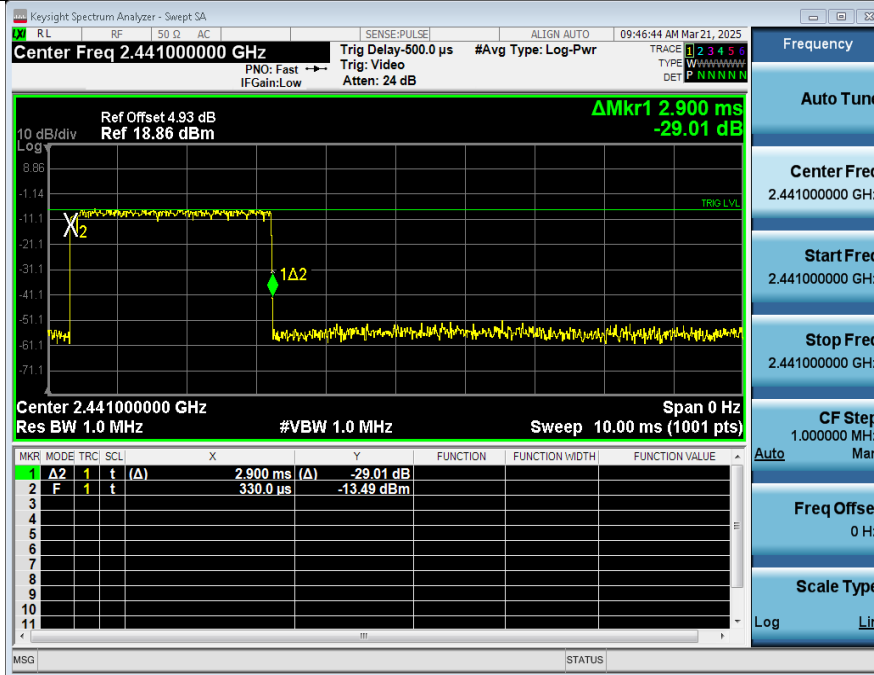


Dwell Time (Hopping) NVNT_ANT1_2-DH5_2402_00_Accumulated

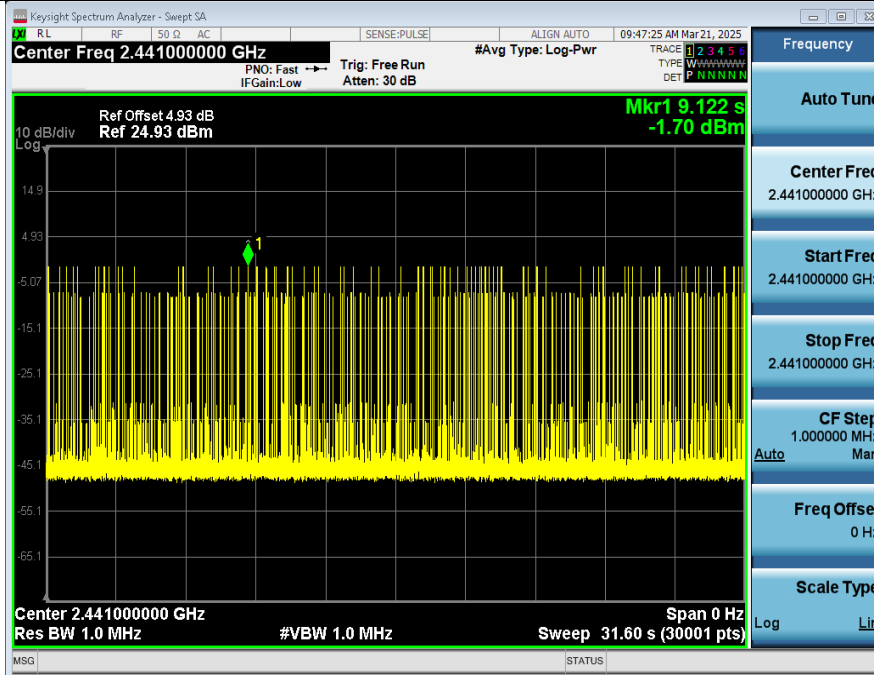


Dwell Time (Hopping) NVNT_ANT1_2-DH5_2441_00_One_Burst_Time



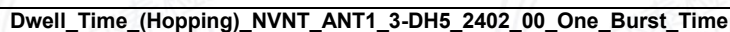


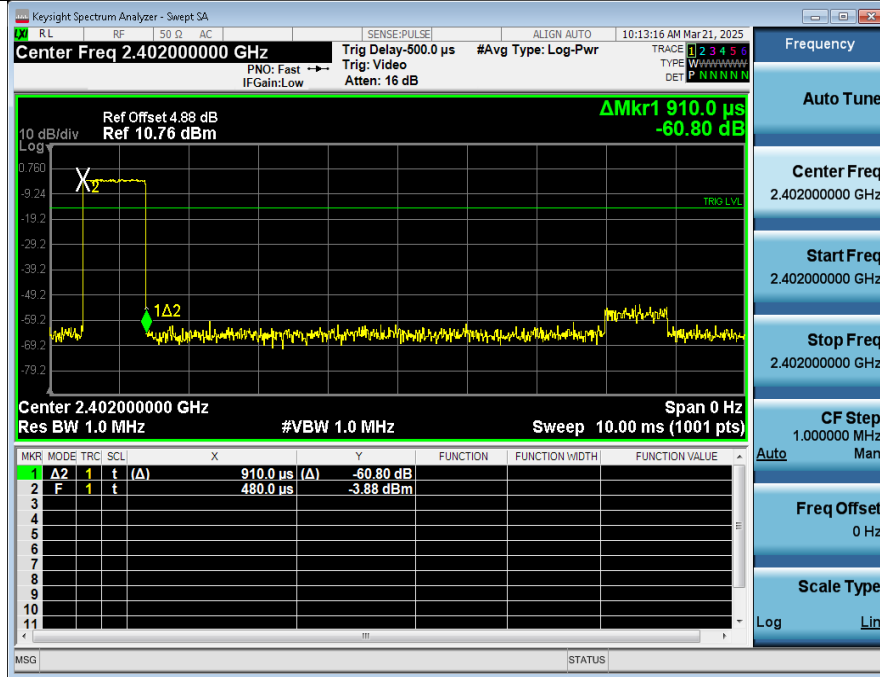
Dwell Time (Hopping) NVNT_ANT1_2-DH5_2441_00_Accumulated



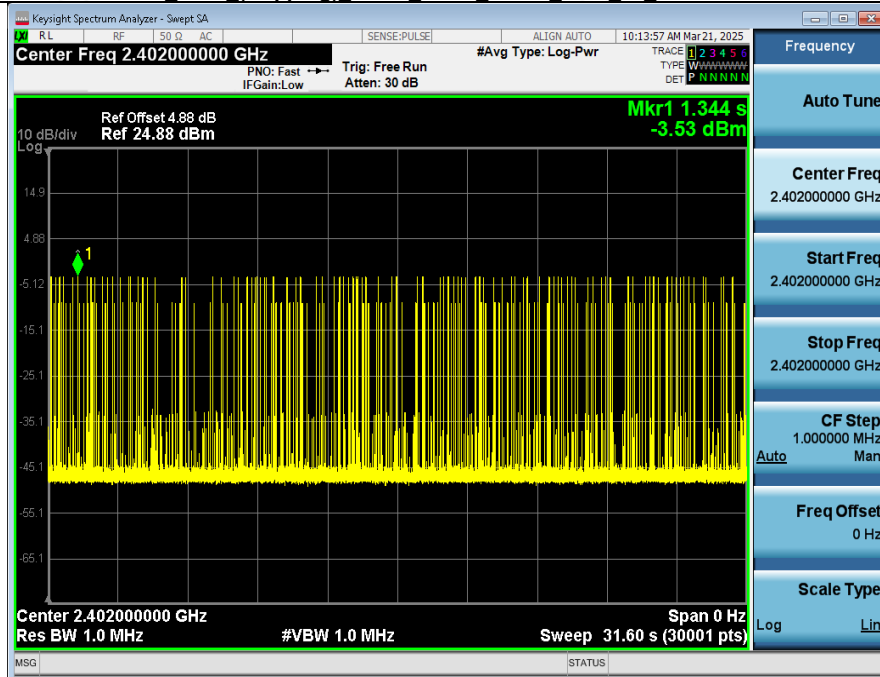
Dwell Time (Hopping) NVNT_ANT1_2-DH5_2480_00_One_Burst_Time







Dwell Time (Hopping) NVNT_ANT1_3-DH5_2402_00_Accumulated



Dwell Time (Hopping) NVNT_ANT1_3-DH5_2441_00_One_Burst_Time



