

Appendix

Test Data

for BTEK250606005AE002

Start date	2025/6/24	Finish date	2025/6/24
Temperature	23.8℃	Humidity	49%
RF specifications	BT	Test Engineer	Zora



Table of Contents

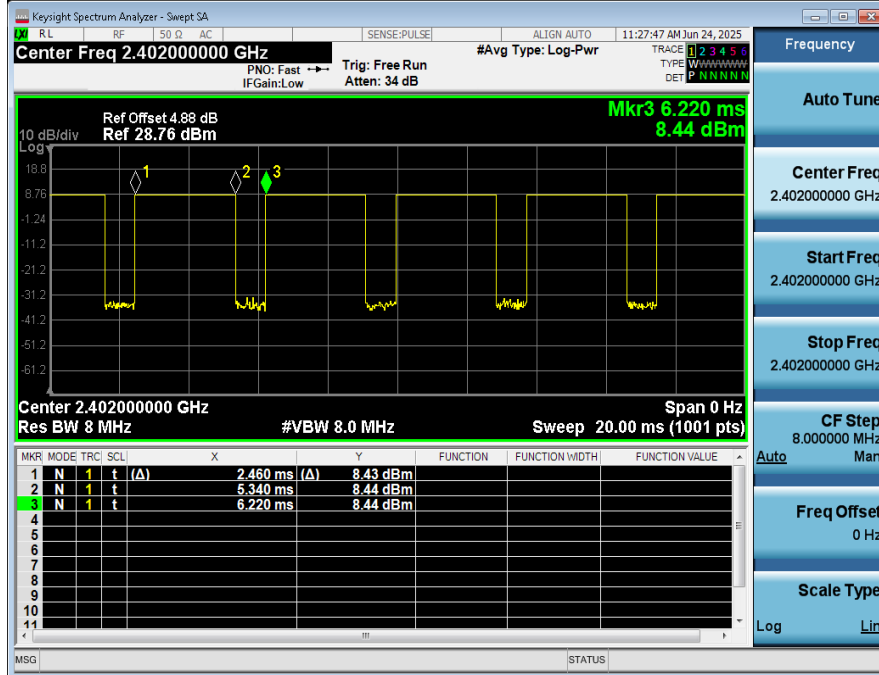
1. Duty Cycle.....	3
2. -20dB Bandwidth.....	8
3. 99% Occupied Bandwidth	13
4. Peak Output Power	18
5. Spurious Emissions	23
6. Bandedge.....	32
7. Carrier Frequencies Separation (Hopping)	44
8. Number of Hopping Channel (Hopping).....	46
9. Dwell Time (Hopping).....	48



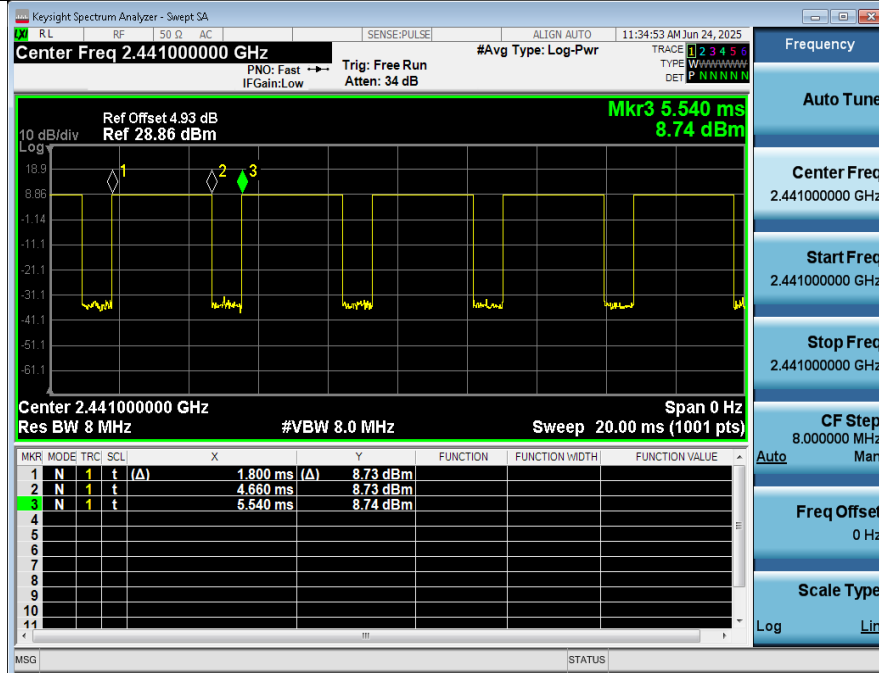
1. Duty Cycle

Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	1-DH5	2402.00	77.13	1.13
NVNT	ANT1	1-DH5	2441.00	77.01	1.13
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	77.13	1.13
NVNT	ANT1	3-DH5	2402.00	77.13	1.13
NVNT	ANT1	3-DH5	2441.00	77.01	1.13
NVNT	ANT1	3-DH5	2480.00	77.13	1.13

Duty_Cycle_NVNT_ANT1_1-DH5_2402

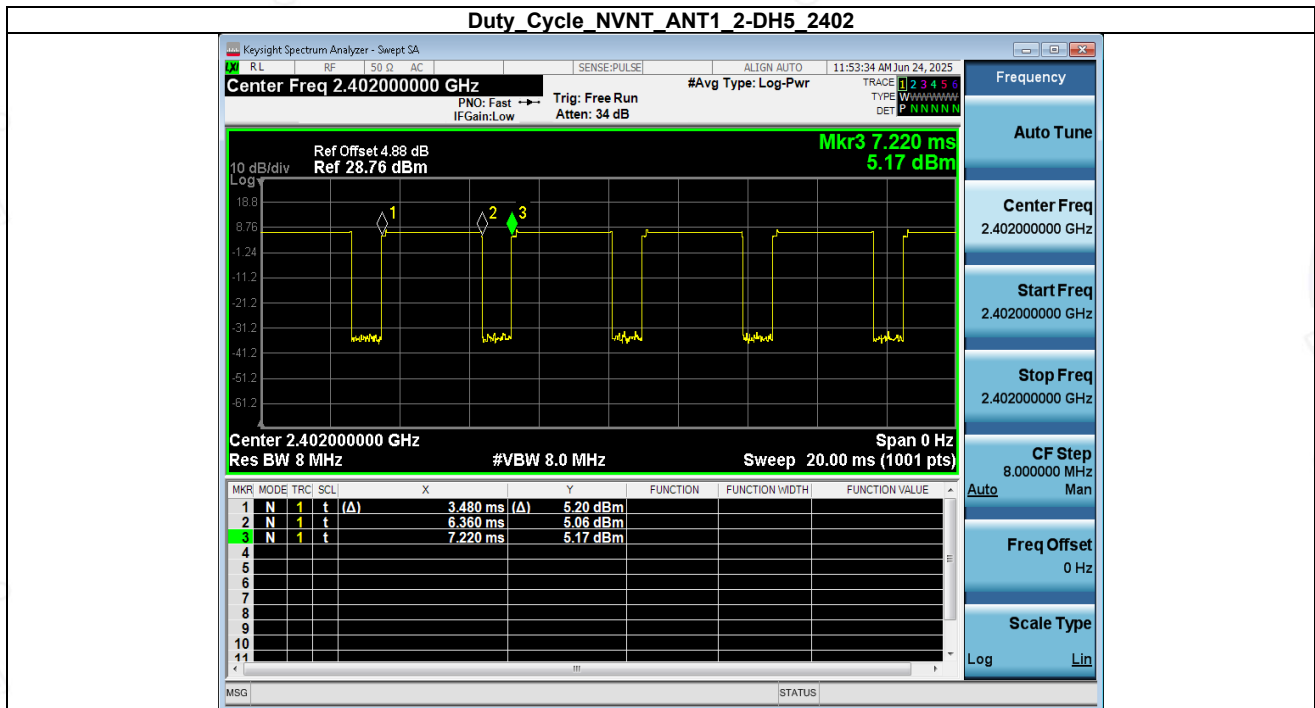
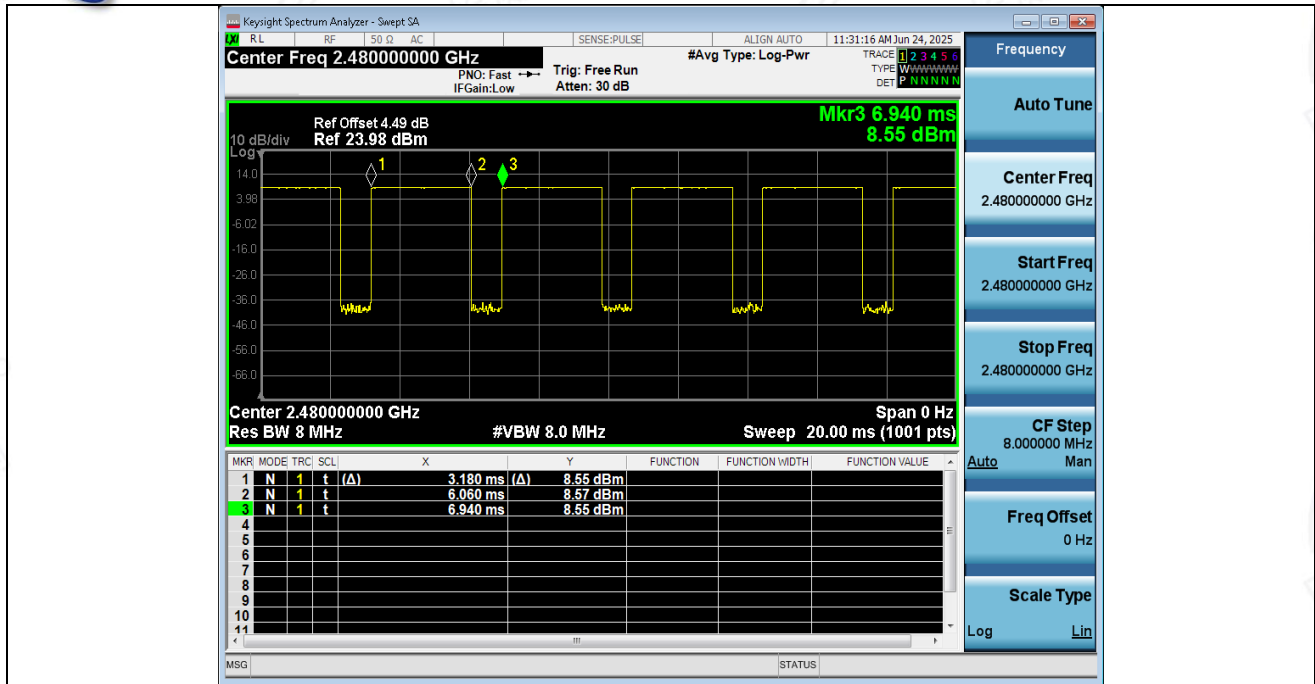


Duty_Cycle_NVNT_ANT1_1-DH5_2441



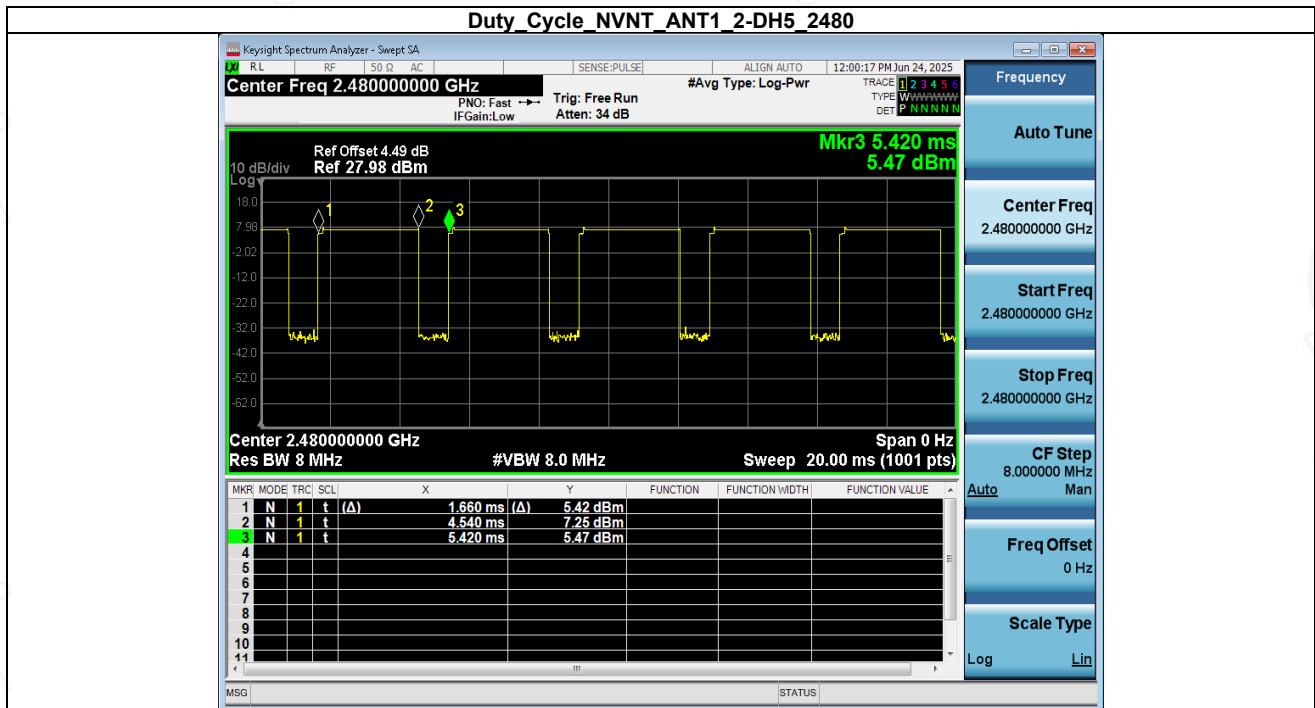
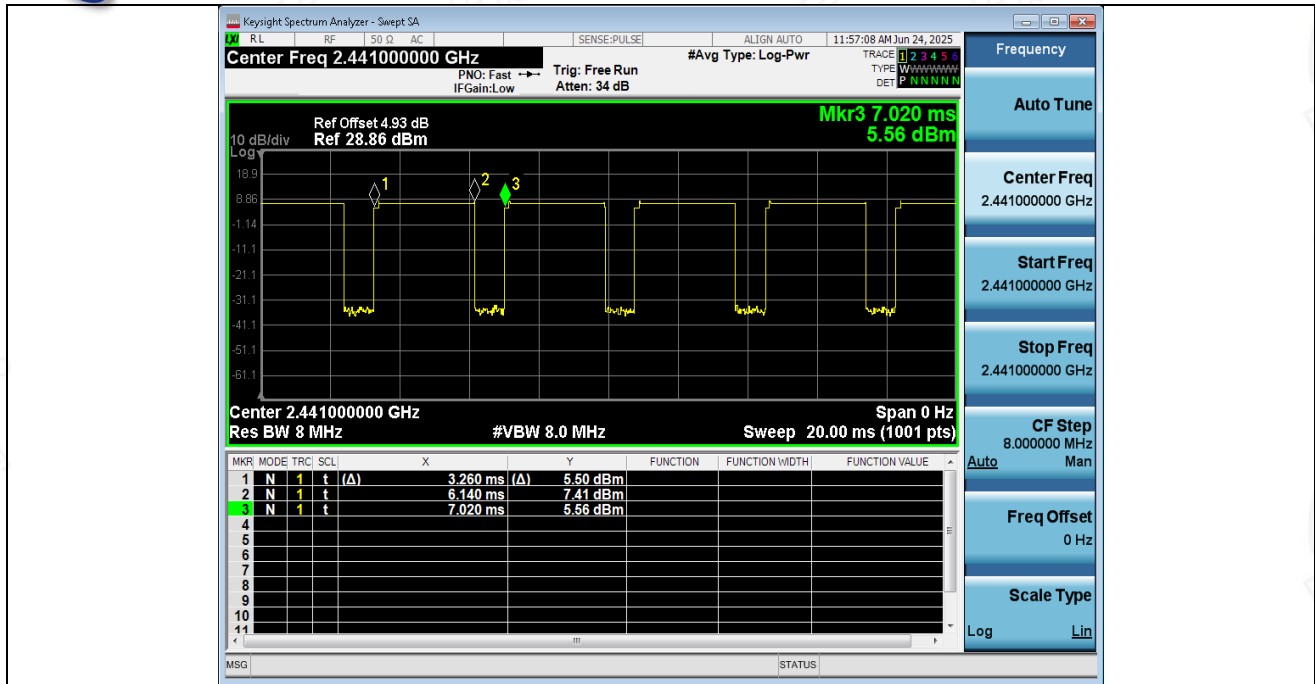
Duty_Cycle_NVNT_ANT1_1-DH5_2480





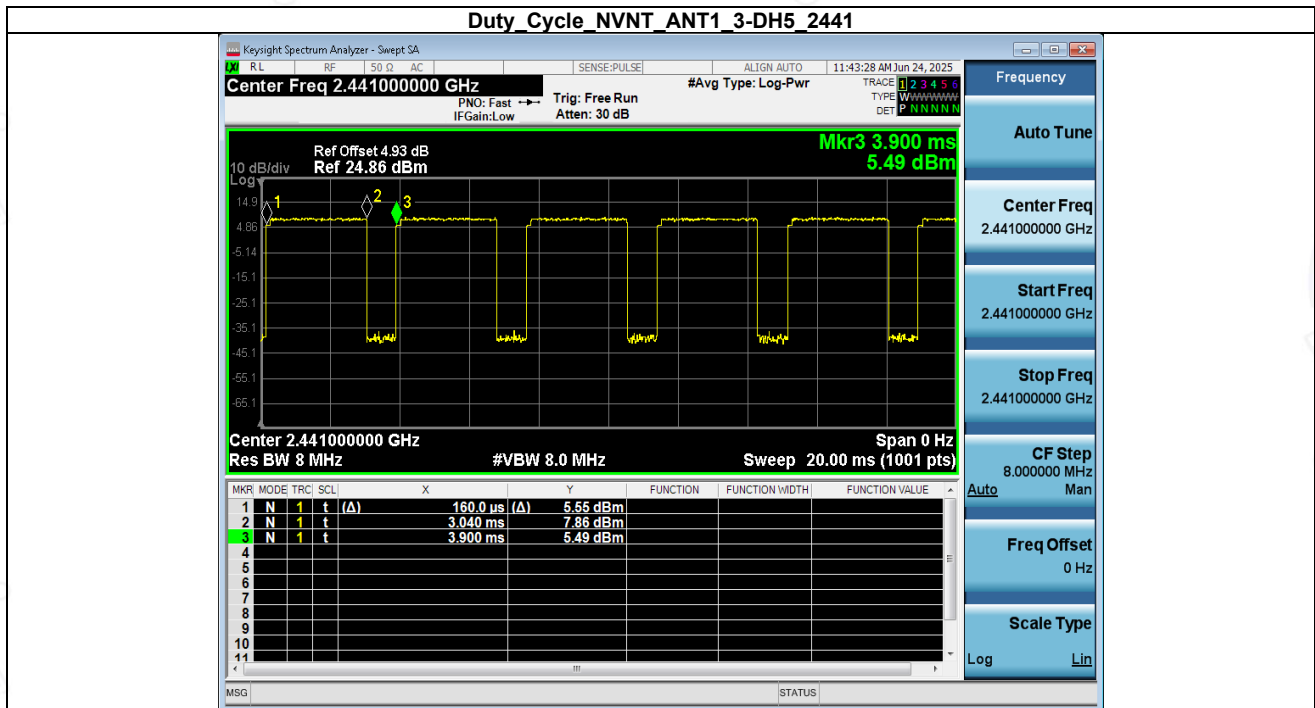
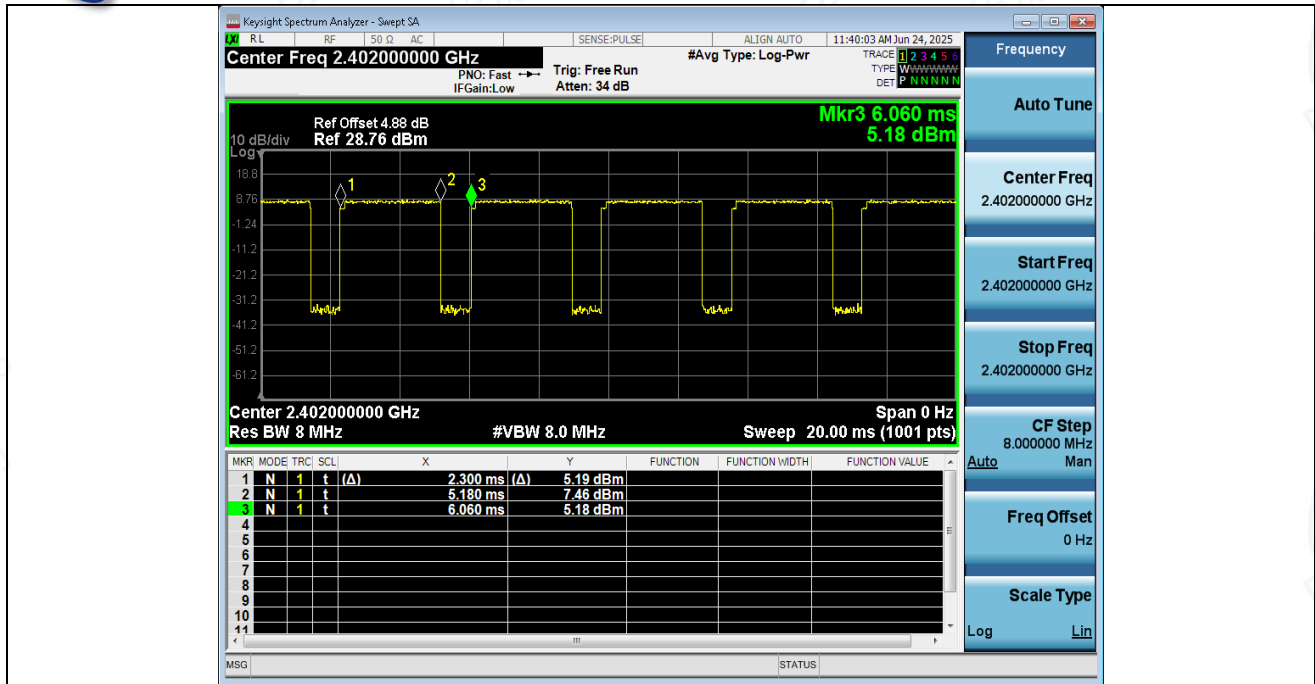
Duty Cycle_NVNT_ANT1_2-DH5_2441





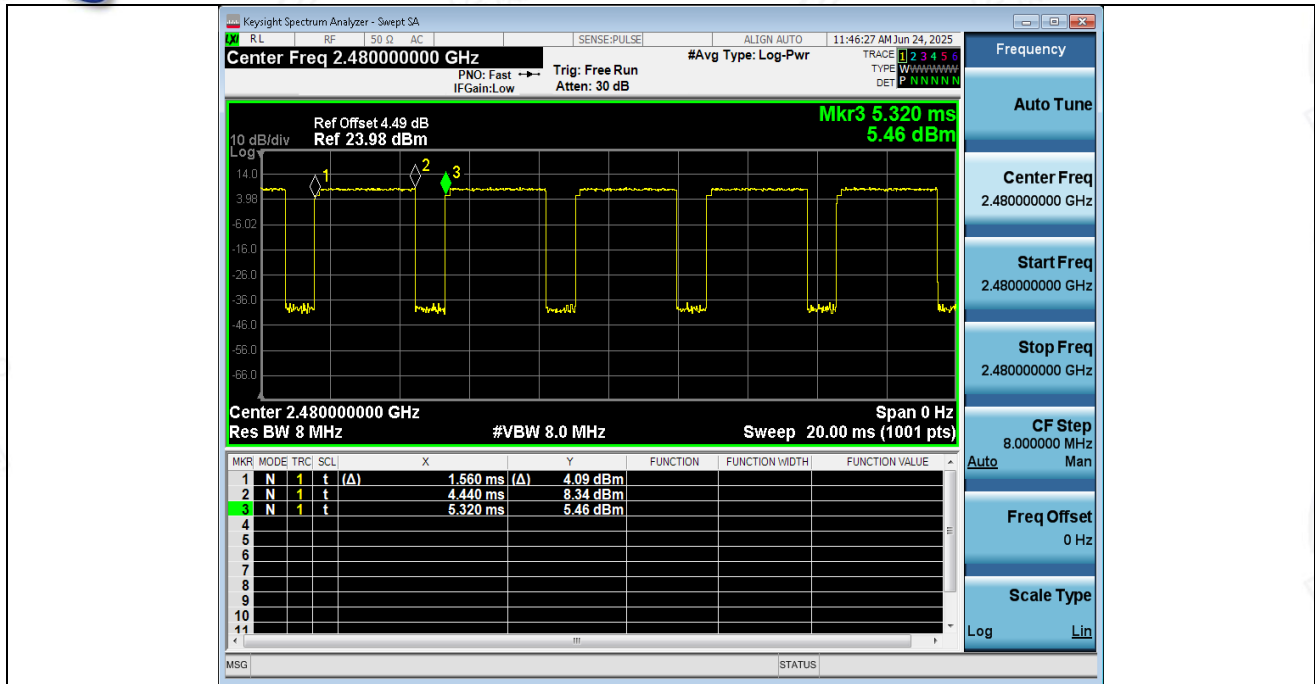
Duty Cycle_NVNT_ANT1_3-DH5_2402





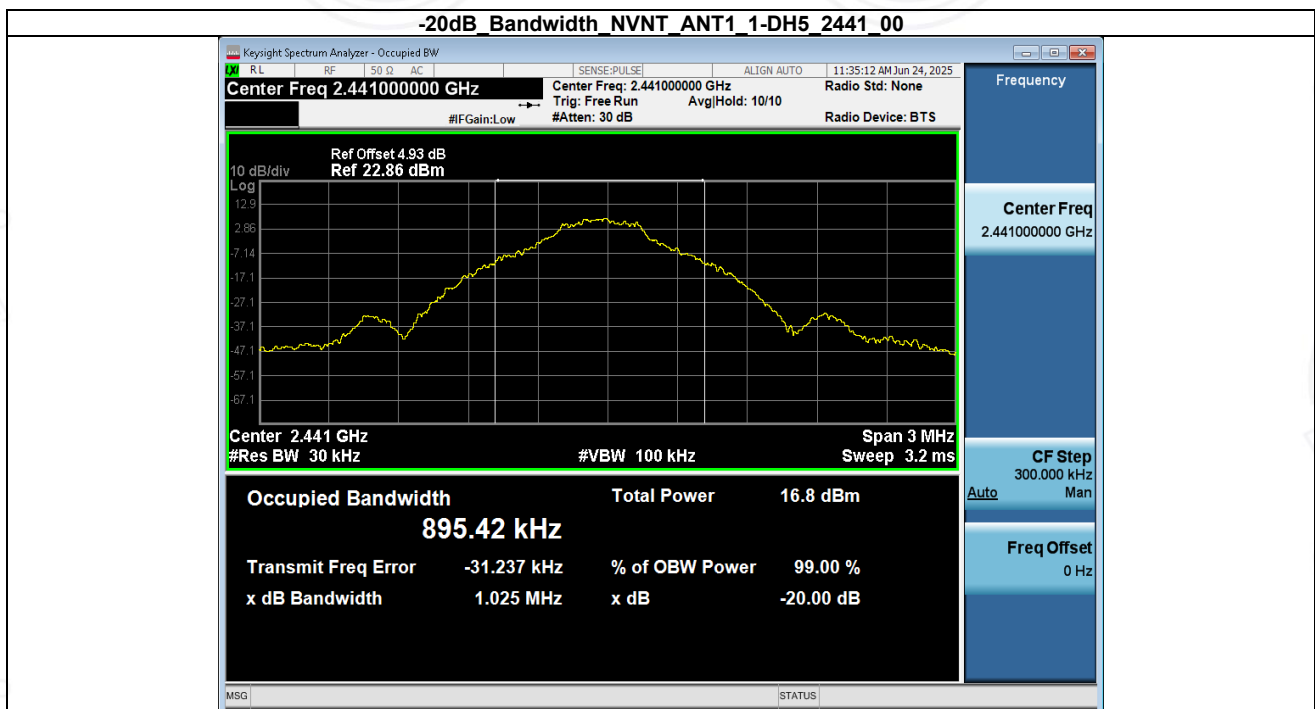
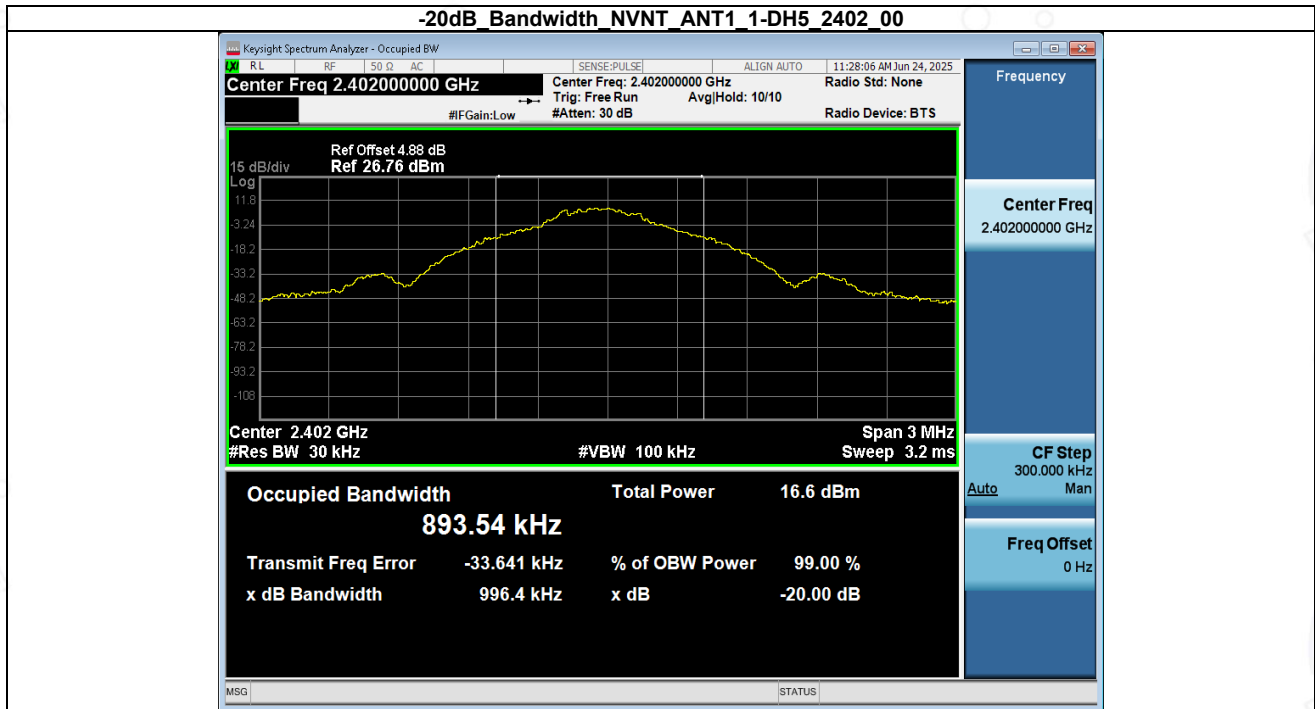
Duty Cycle_NVNT_ANT1_3-DH5_2480

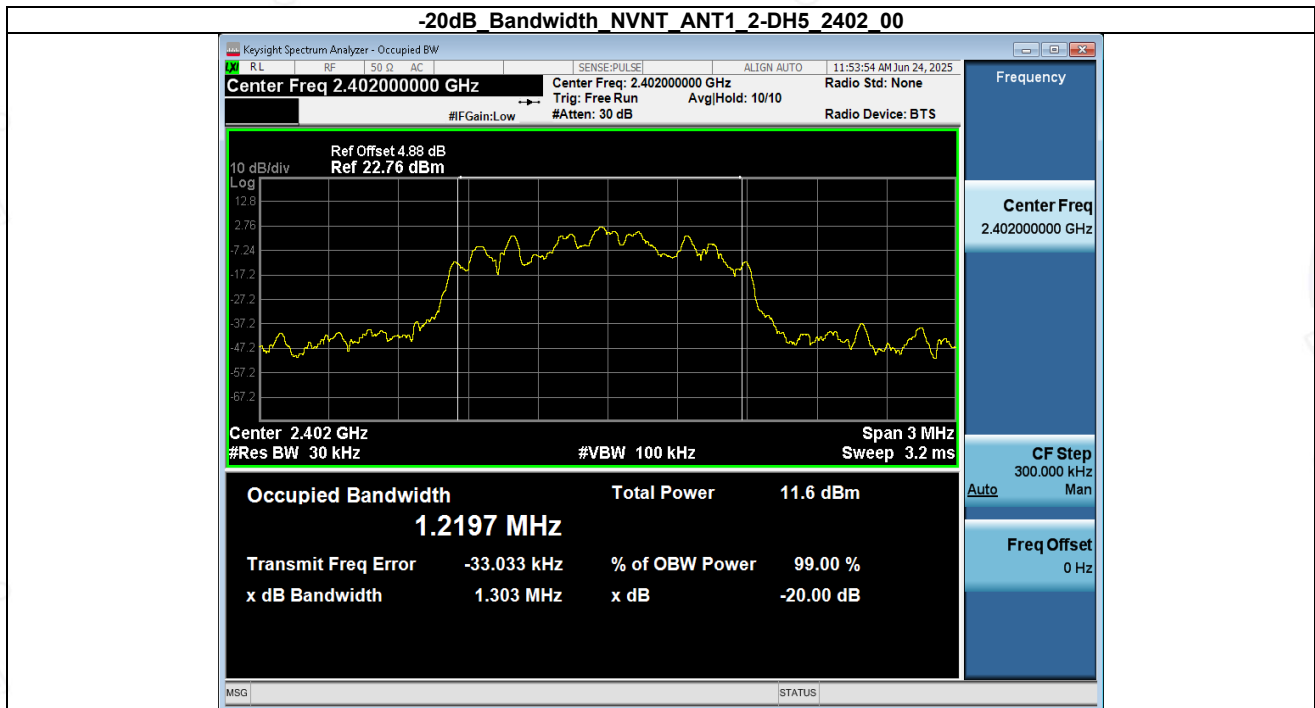
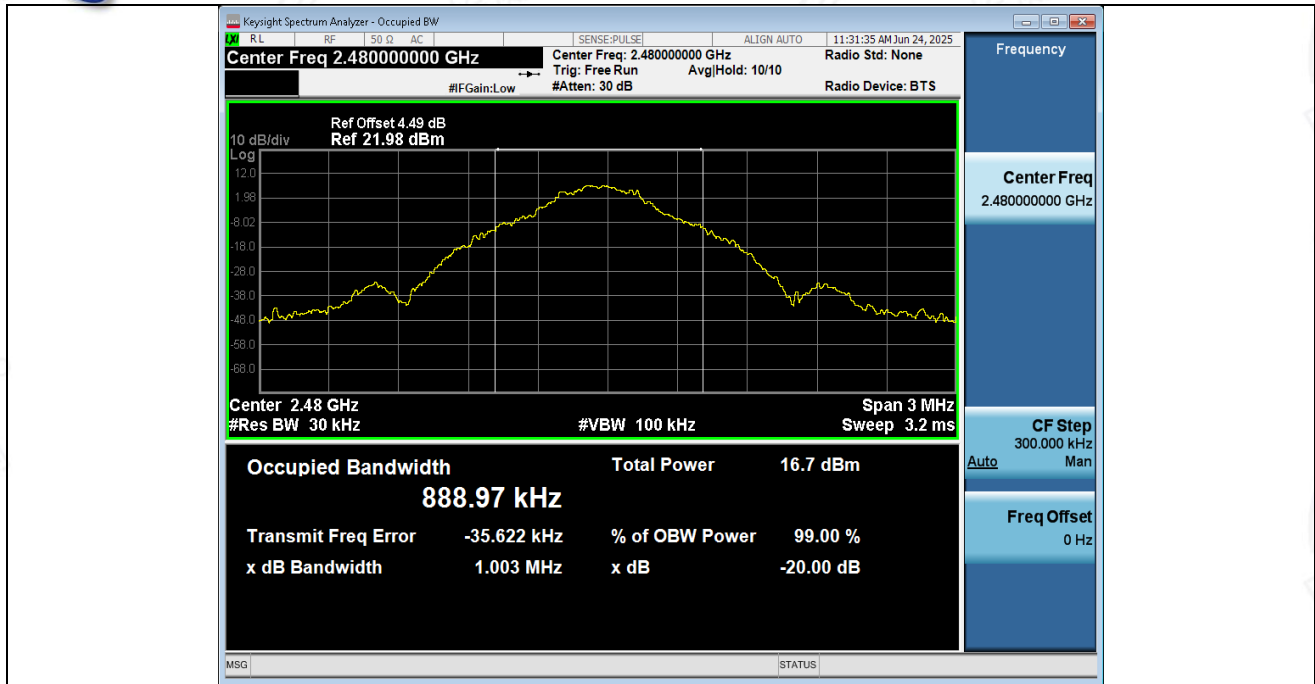


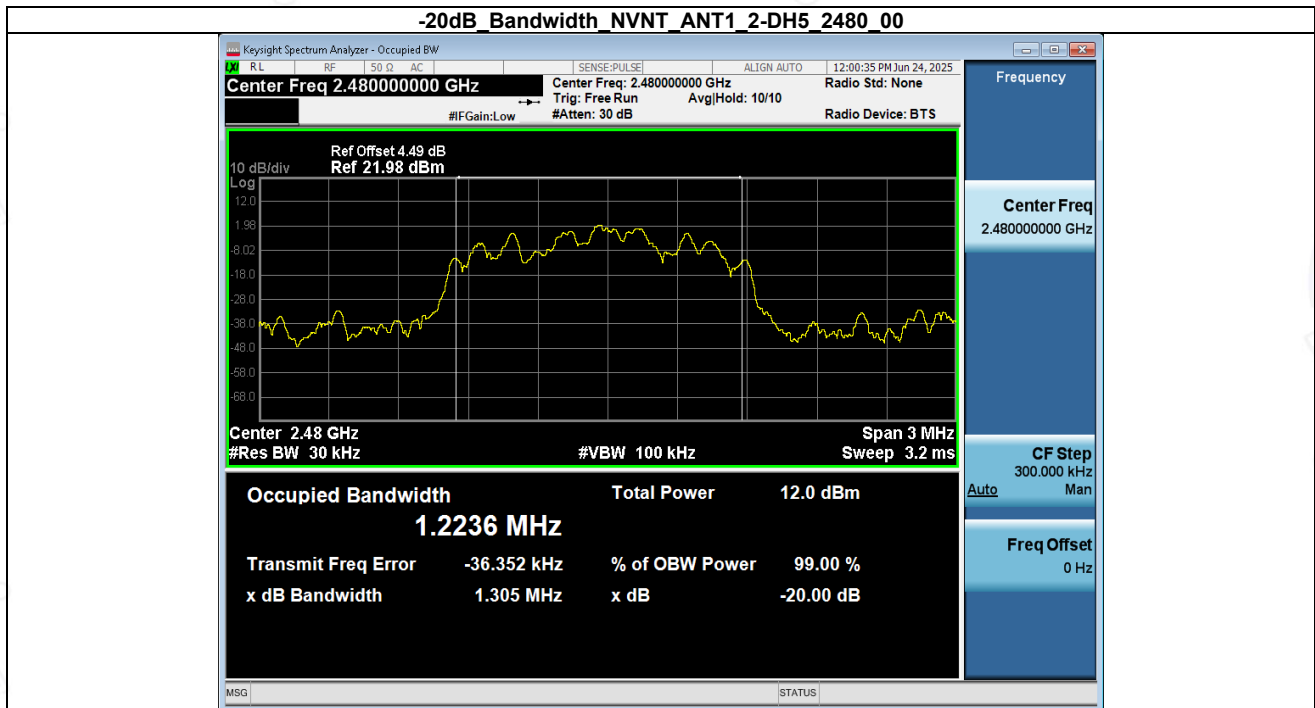
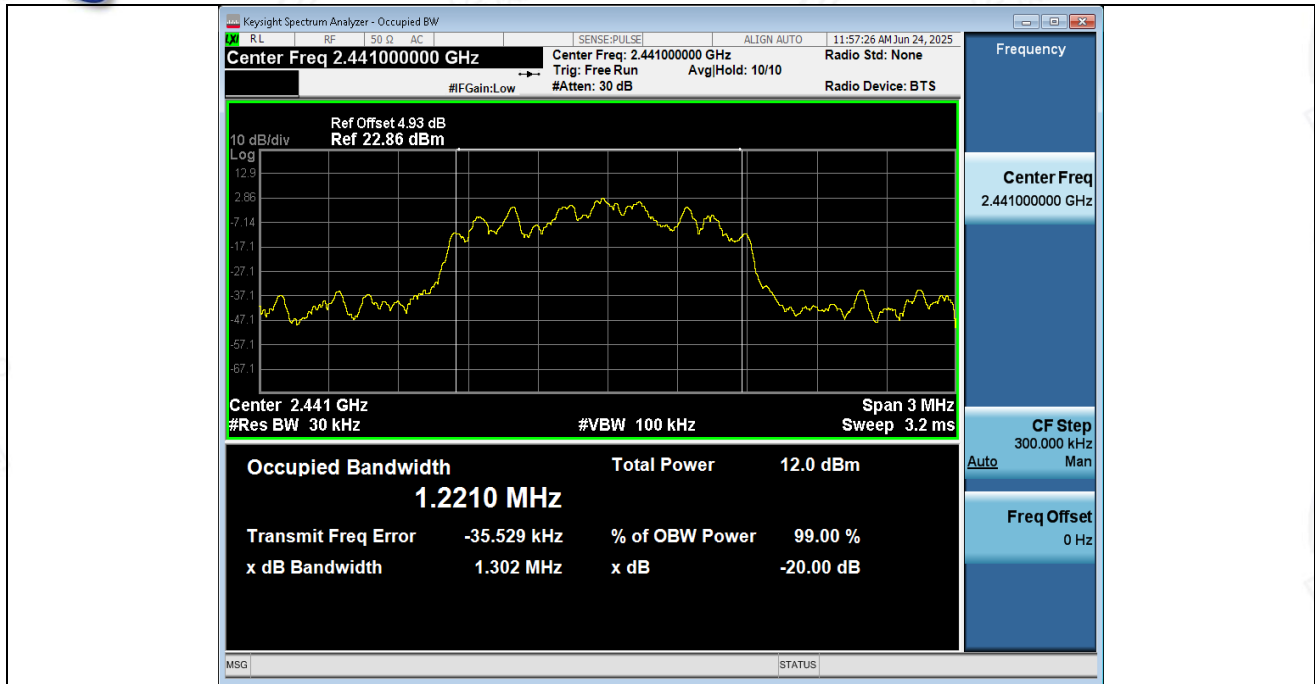


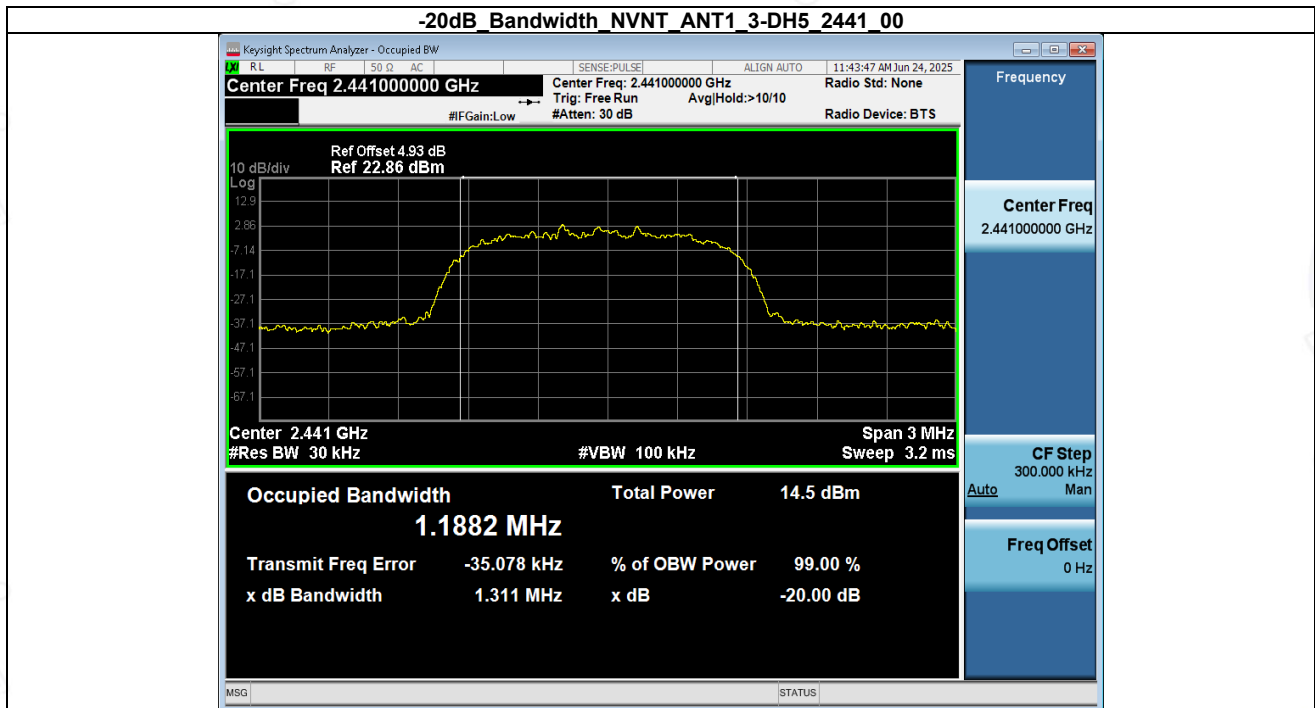
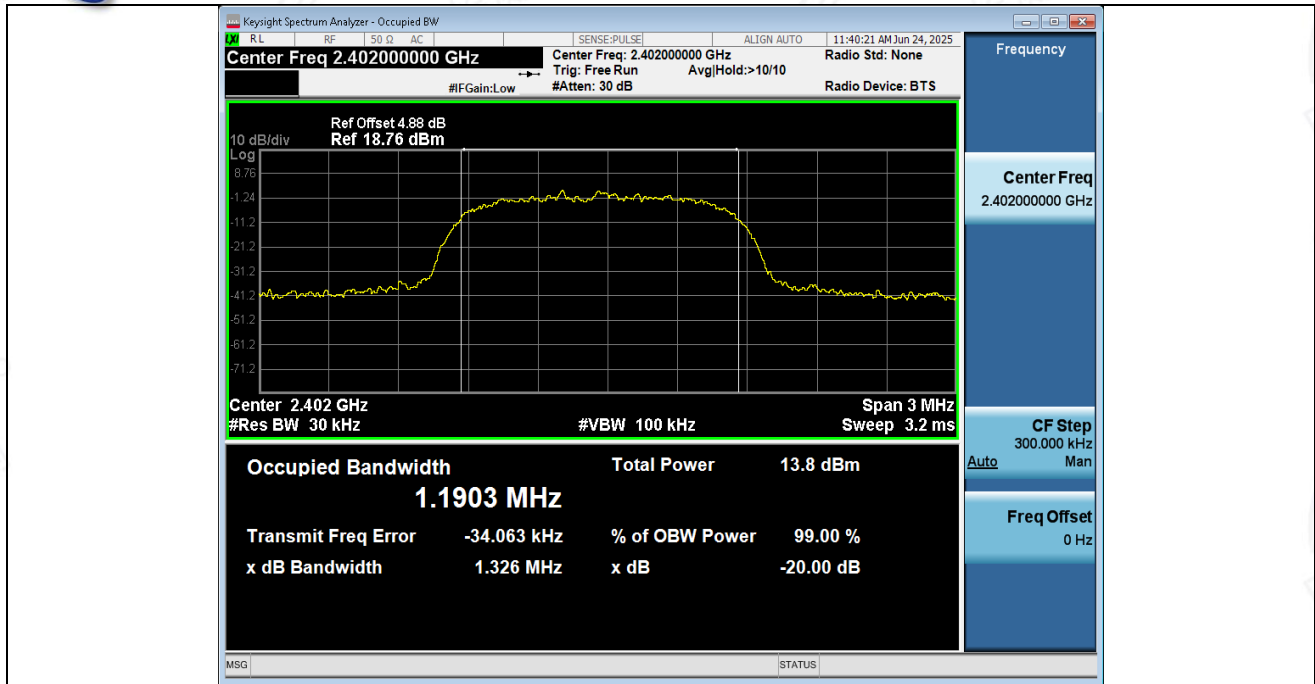
2. -20dB Bandwidth

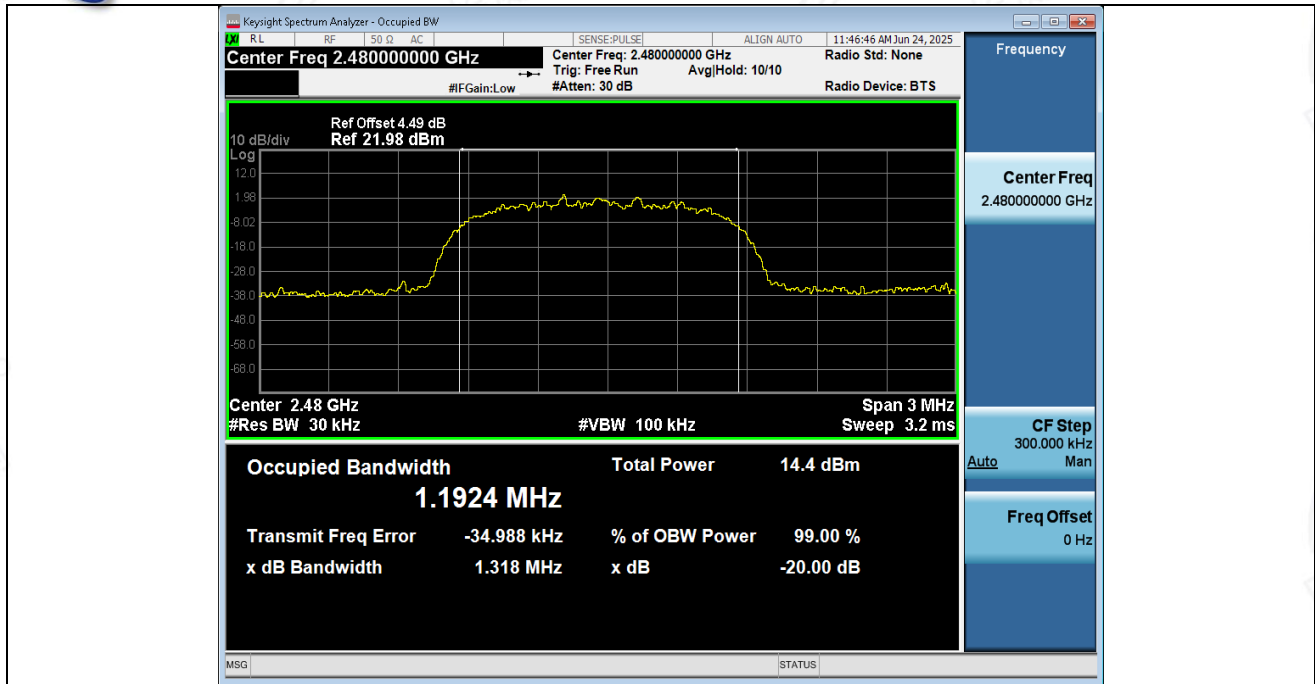
Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS
NVNT	ANT1	1-DH5	2402.00	0.996	No
NVNT	ANT1	1-DH5	2441.00	1.025	Yes
NVNT	ANT1	1-DH5	2480.00	1.003	Yes
NVNT	ANT1	2-DH5	2402.00	1.303	Yes
NVNT	ANT1	2-DH5	2441.00	1.302	Yes
NVNT	ANT1	2-DH5	2480.00	1.305	Yes
NVNT	ANT1	3-DH5	2402.00	1.326	Yes
NVNT	ANT1	3-DH5	2441.00	1.311	Yes
NVNT	ANT1	3-DH5	2480.00	1.318	Yes







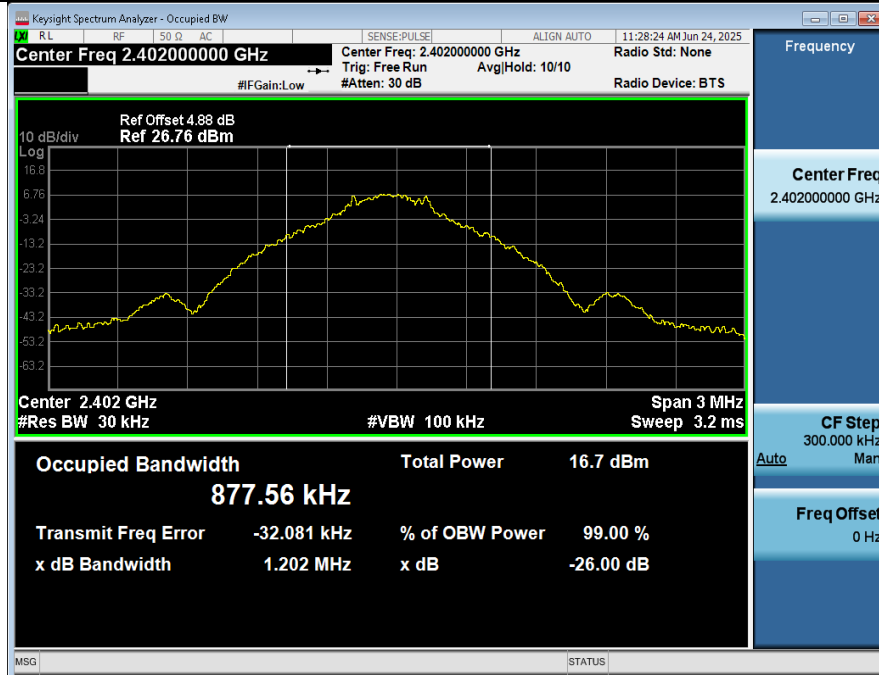




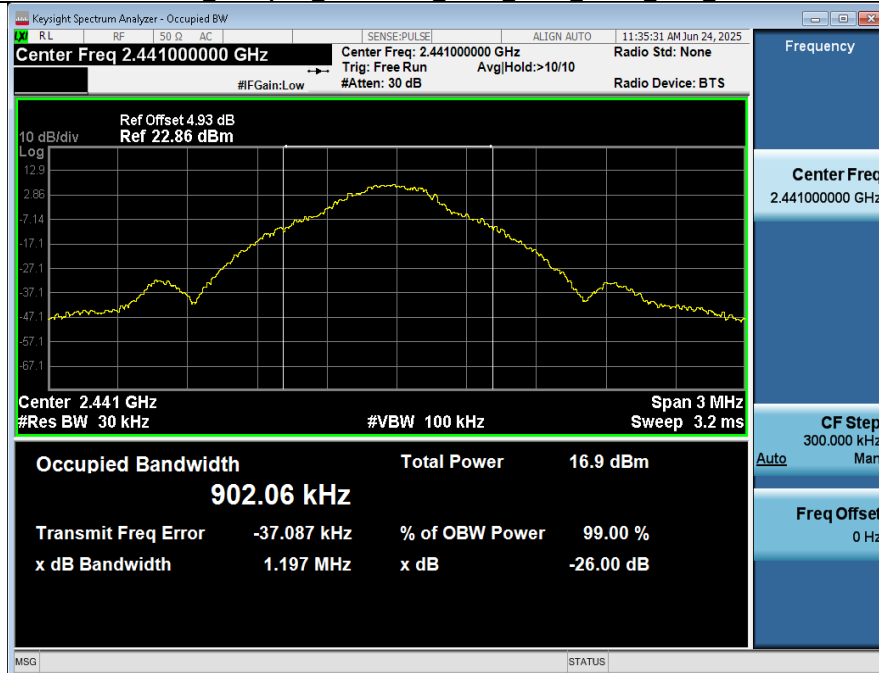
3. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	1-DH5	2402.00	0.878
NVNT	ANT1	1-DH5	2441.00	0.902
NVNT	ANT1	1-DH5	2480.00	0.890
NVNT	ANT1	2-DH5	2402.00	1.221
NVNT	ANT1	2-DH5	2441.00	1.218
NVNT	ANT1	2-DH5	2480.00	1.223
NVNT	ANT1	3-DH5	2402.00	1.190
NVNT	ANT1	3-DH5	2441.00	1.200
NVNT	ANT1	3-DH5	2480.00	1.201

99% Occupied Bandwidth NVNT ANT1 1-DH5 2402_00

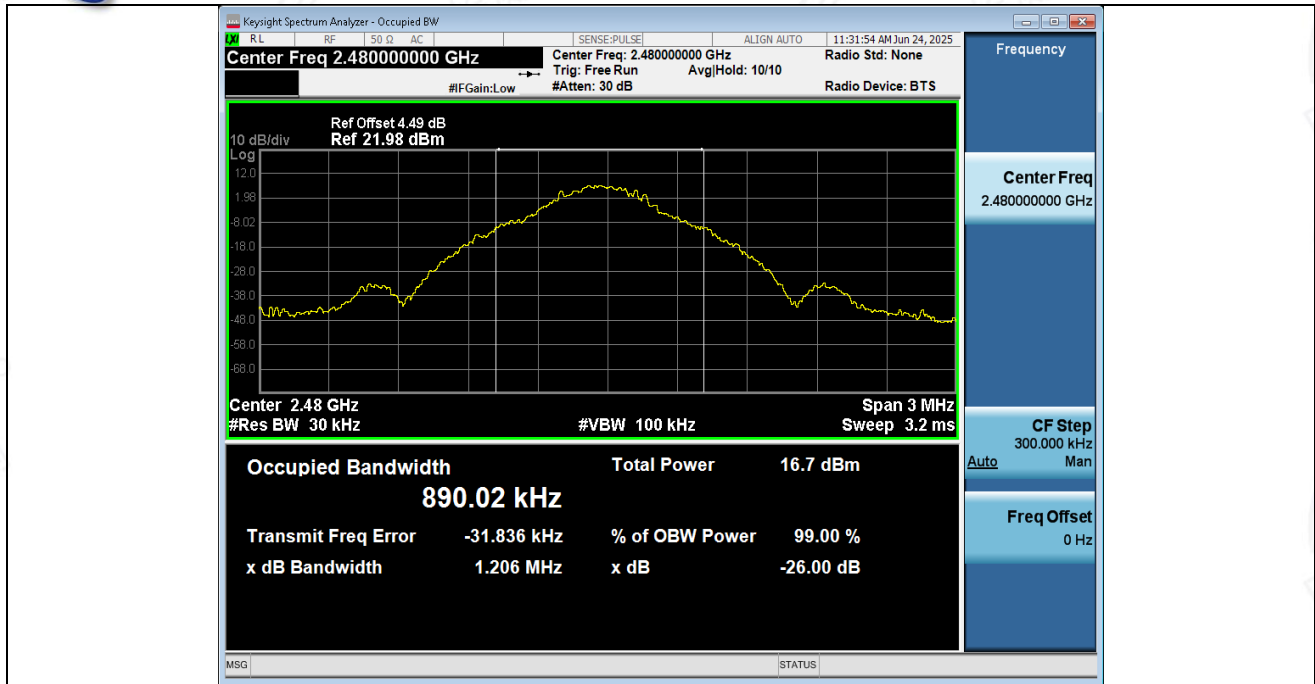


99% Occupied Bandwidth NVNT ANT1 1-DH5 2441_00

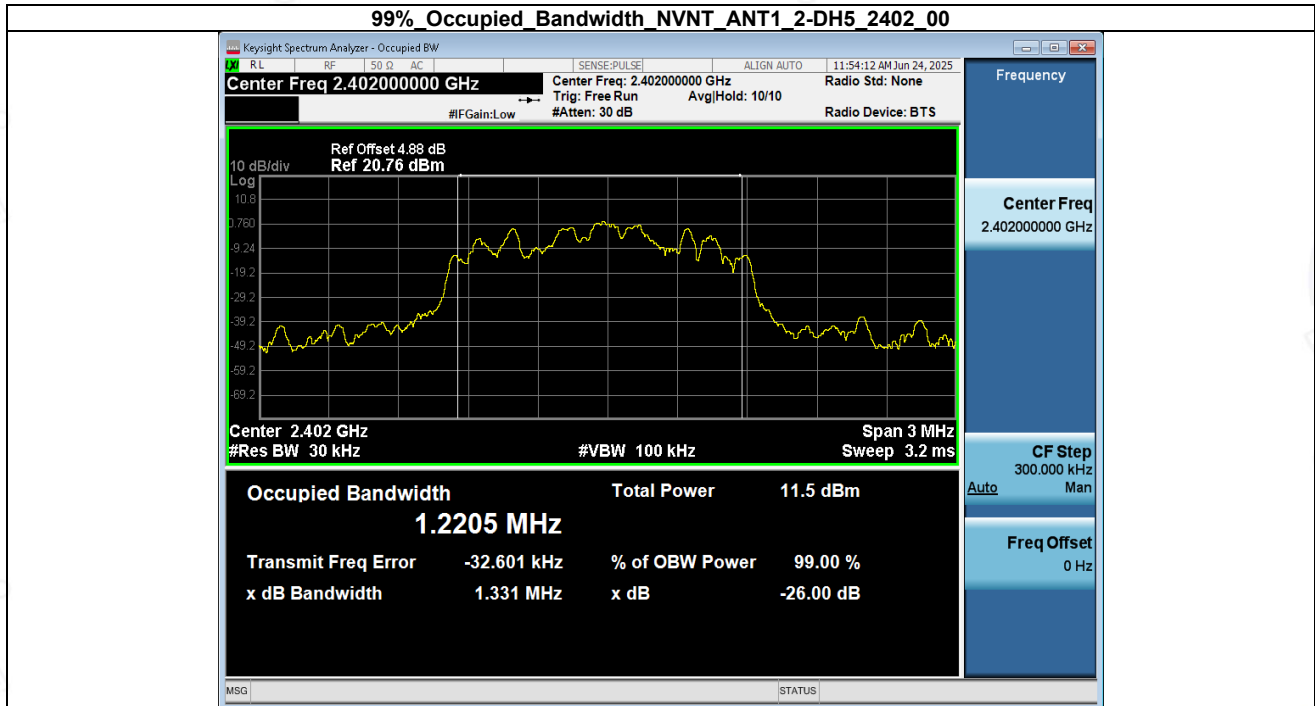


99% Occupied Bandwidth NVNT ANT1 1-DH5 2480_00



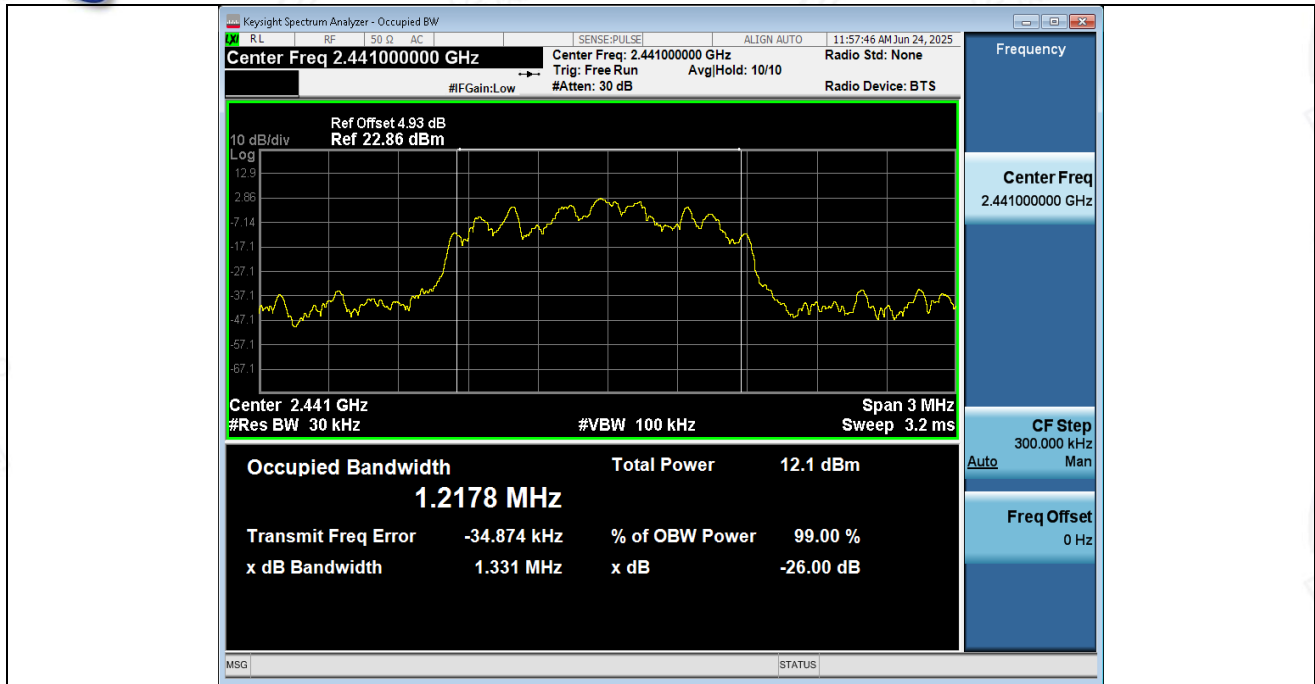


99% Occupied Bandwidth_NVNT_ANT1_2-DH5_2402_00



99% Occupied Bandwidth_NVNT_ANT1_2-DH5_2441_00



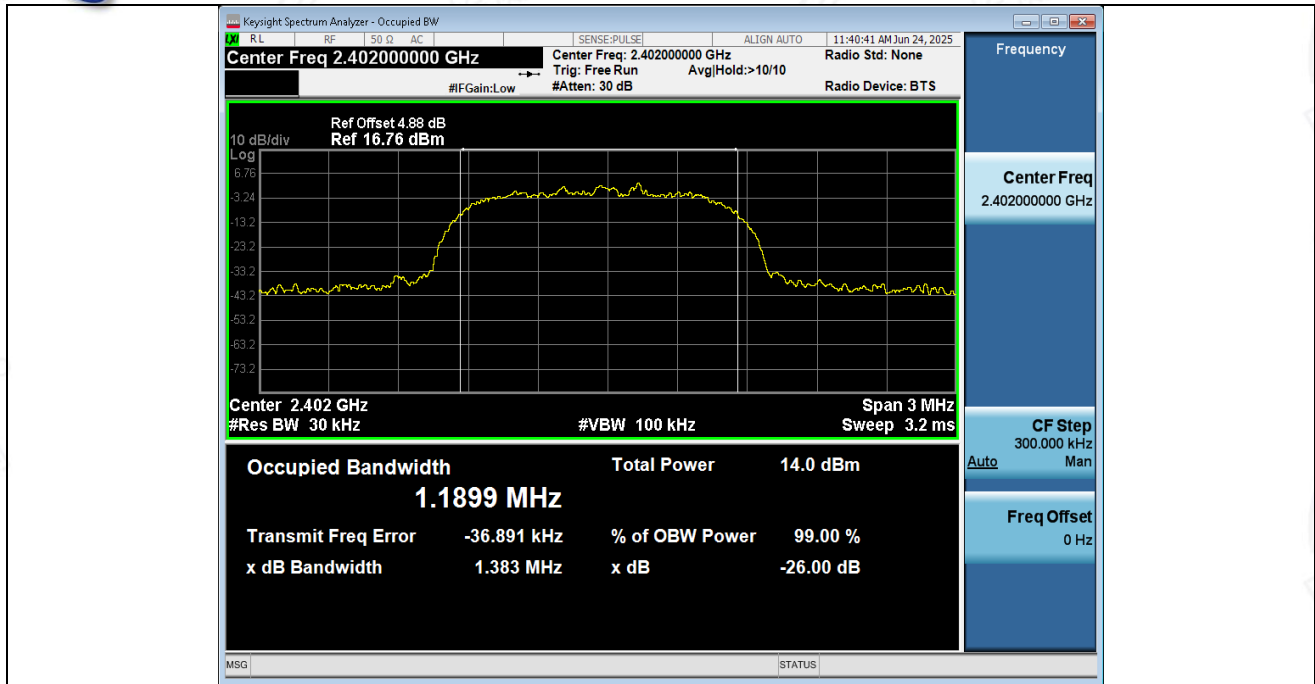


99% Occupied Bandwidth_NVNT_ANT1_2-DH5_2480_00

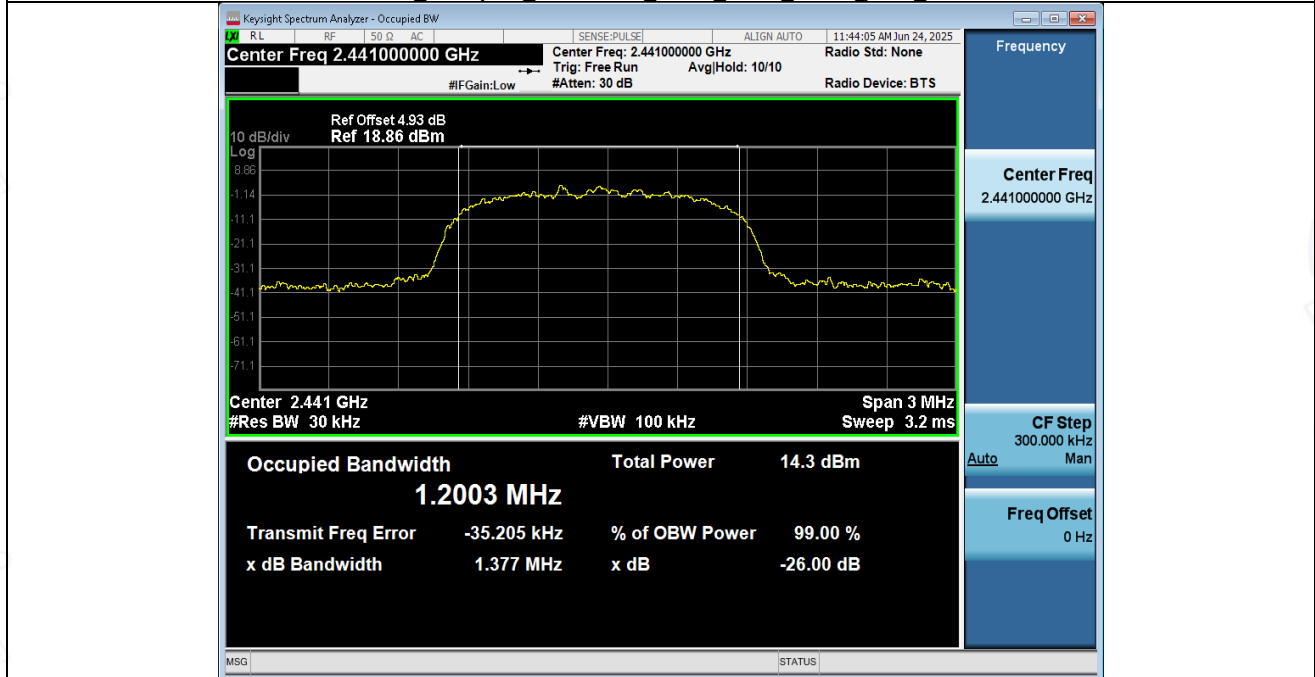


99% Occupied Bandwidth_NVNT_ANT1_3-DH5_2402_00



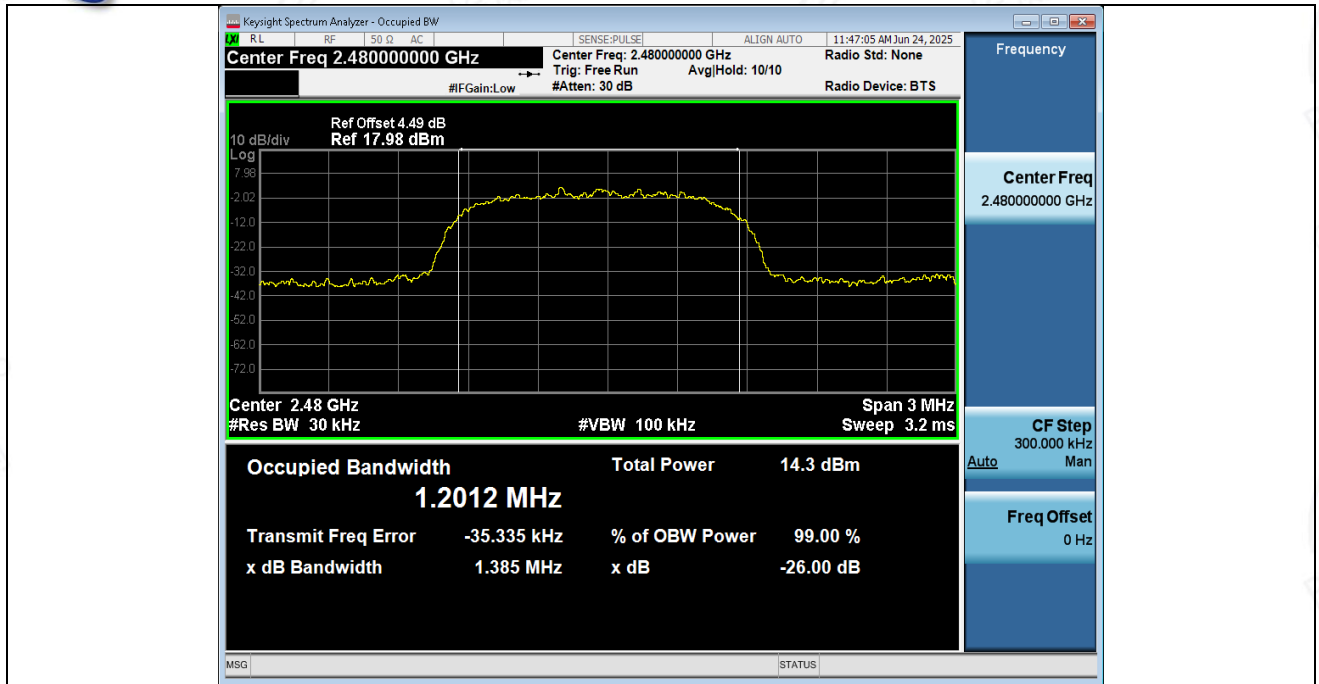


99% Occupied Bandwidth_NVNT_ANT1_3-DH5_2441_00



99% Occupied Bandwidth_NVNT_ANT1_3-DH5_2480_00

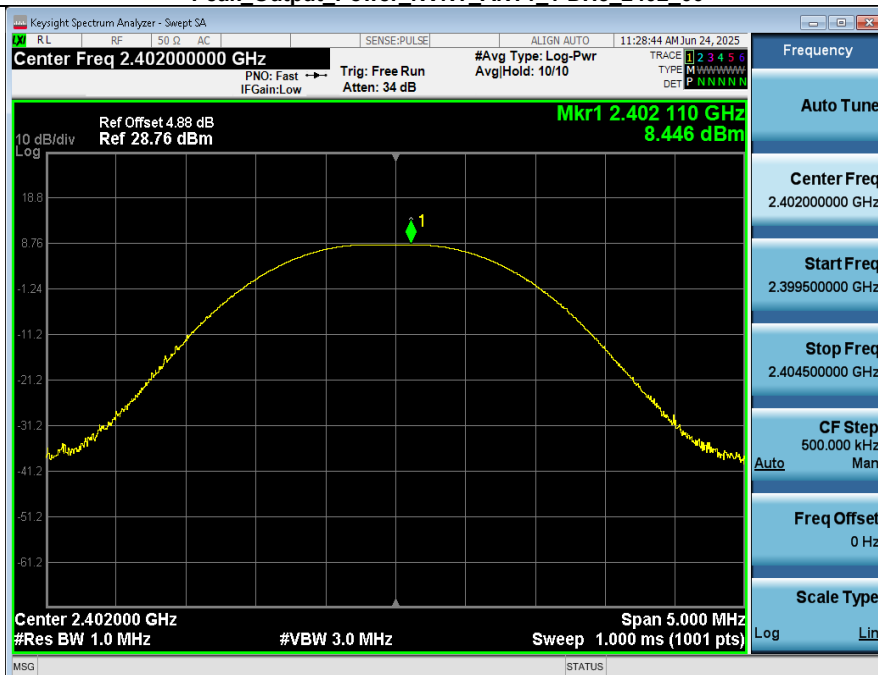




4. Peak Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1-DH5	2402.00	8.45	6.99	125	Pass
NVNT	ANT1	1-DH5	2441.00	8.80	7.58	125	Pass
NVNT	ANT1	1-DH5	2480.00	8.62	7.27	125	Pass
NVNT	ANT1	2-DH5	2402.00	7.59	5.74	125	Pass
NVNT	ANT1	2-DH5	2441.00	7.89	6.15	125	Pass
NVNT	ANT1	2-DH5	2480.00	7.78	6.00	125	Pass
NVNT	ANT1	3-DH5	2402.00	8.60	7.25	125	Pass
NVNT	ANT1	3-DH5	2441.00	8.81	7.61	125	Pass
NVNT	ANT1	3-DH5	2480.00	8.74	7.49	125	Pass

Peak_Output_Power_NVNT_ANT1_1-DH5_2402_00

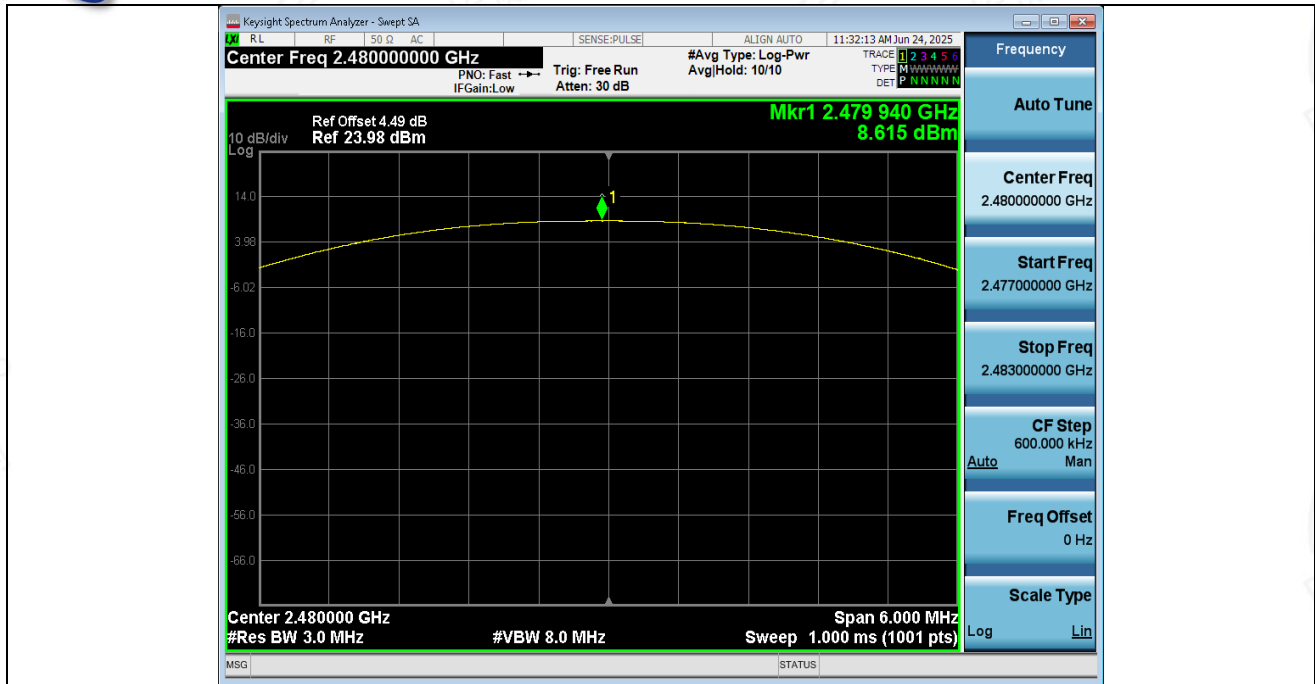


Peak_Output_Power_NVNT_ANT1_1-DH5_2441_00

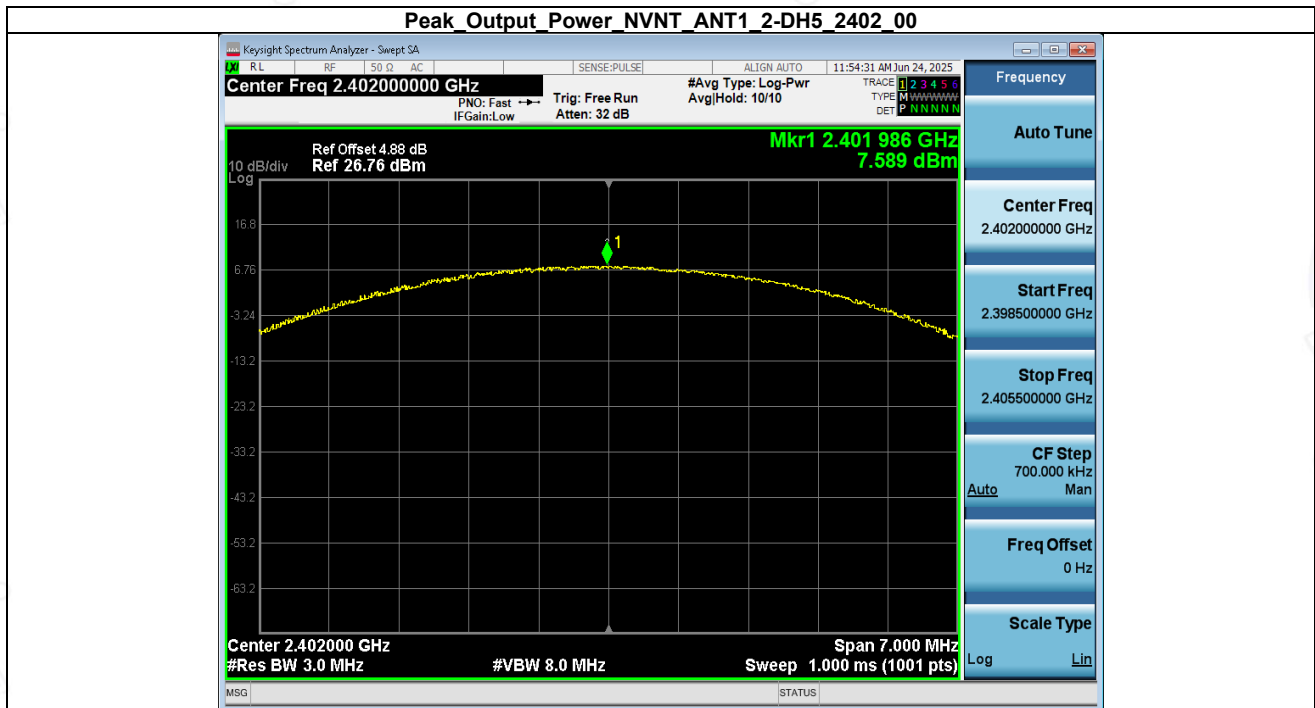


Peak_Output_Power_NVNT_ANT1_1-DH5_2480_00





Peak_Output_Power_NVNT_ANT1_2-DH5_2402_00

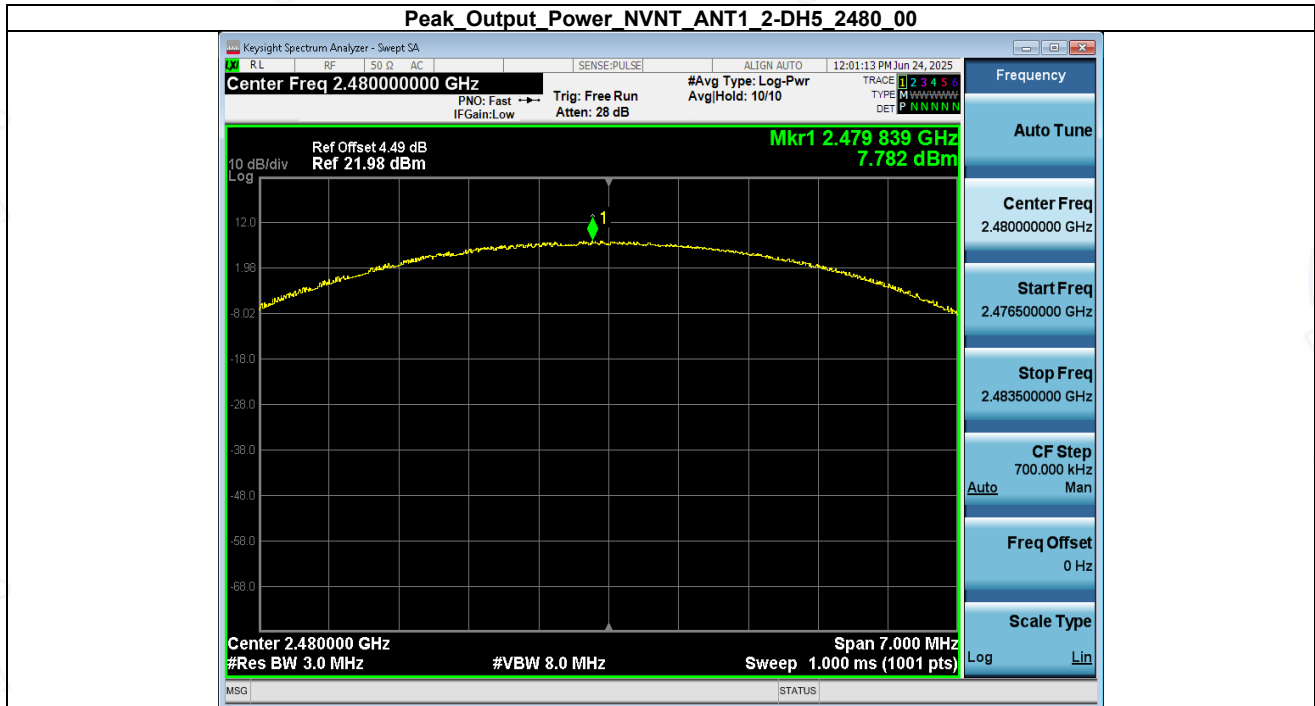


Peak_Output_Power_NVNT_ANT1_2-DH5_2441_00



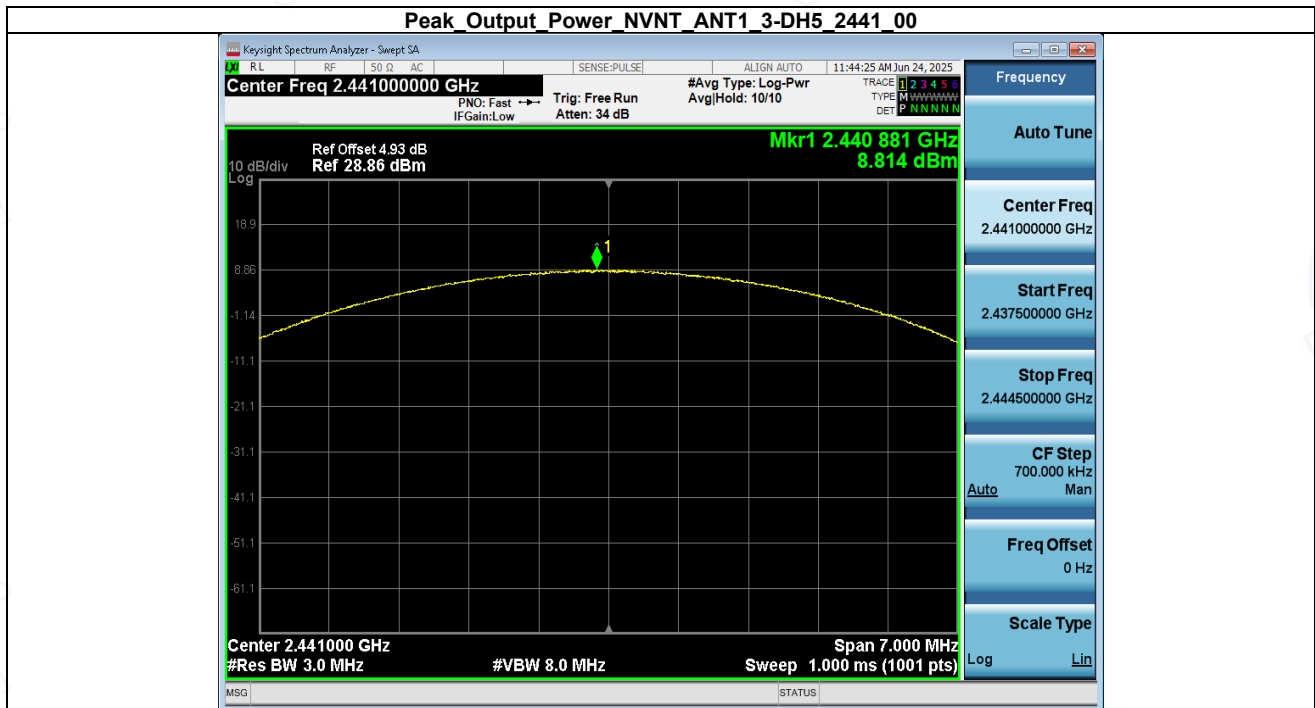
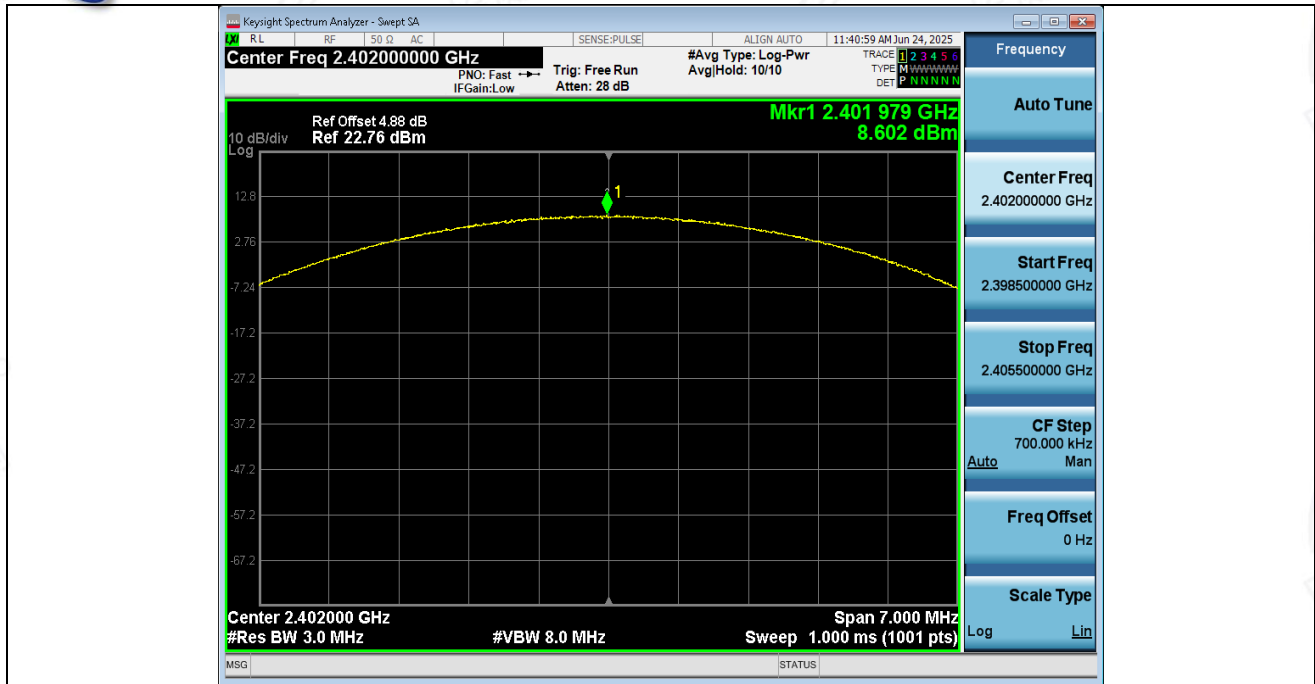


Peak_Output_Power_NVNT_ANT1_2-DH5_2480_00



Peak_Output_Power_NVNT_ANT1_3-DH5_2402_00





Peak_Output_Power_NVNT_ANT1_3-DH5_2480_00

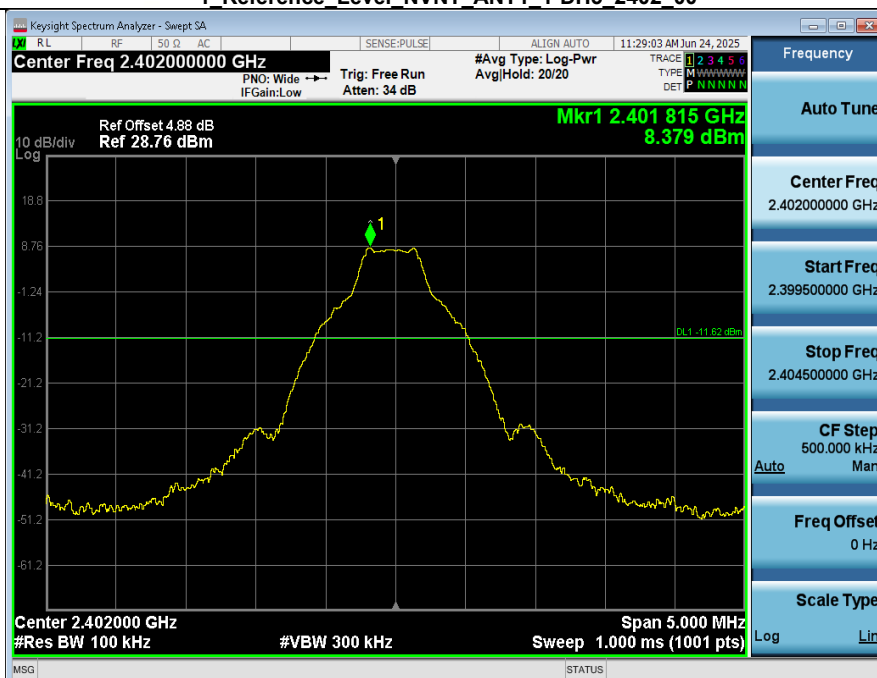




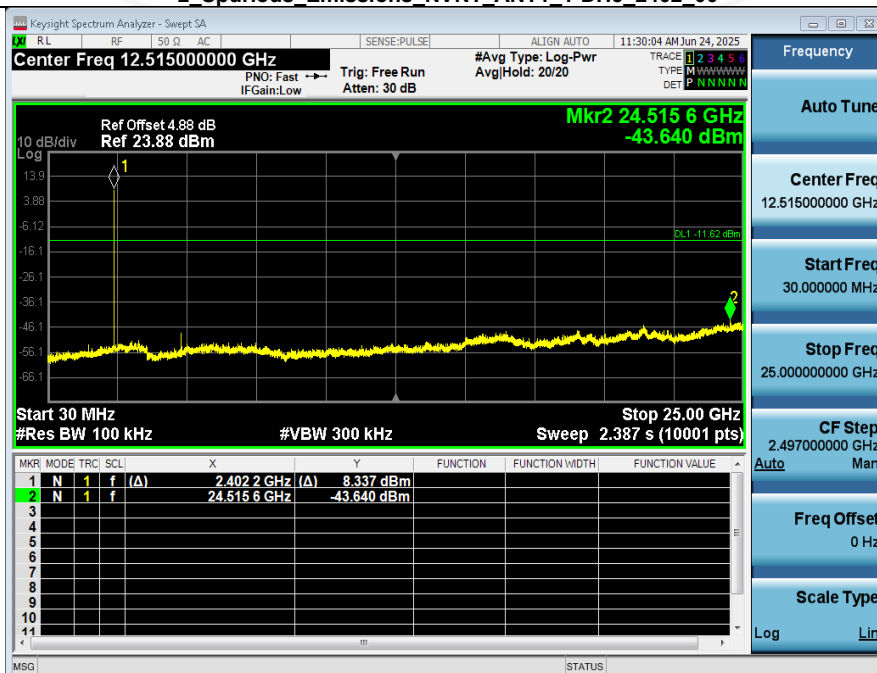
5. Spurious Emissions

Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1-DH5	2402.00	8.379	-43.640	-11.621	Pass
NVNT	ANT1	1-DH5	2441.00	8.638	-43.134	-11.362	Pass
NVNT	ANT1	1-DH5	2480.00	8.194	-43.834	-11.806	Pass
NVNT	ANT1	2-DH5	2402.00	4.832	-47.442	-15.168	Pass
NVNT	ANT1	2-DH5	2441.00	5.348	-51.412	-14.652	Pass
NVNT	ANT1	2-DH5	2480.00	5.174	-52.202	-14.826	Pass
NVNT	ANT1	3-DH5	2402.00	4.762	-46.803	-15.238	Pass
NVNT	ANT1	3-DH5	2441.00	5.331	-47.076	-14.669	Pass
NVNT	ANT1	3-DH5	2480.00	4.957	-48.494	-15.043	Pass

1 Reference Level NVNT ANT1 1-DH5 2402 00



2 Spurious Emissions NVNT ANT1 1-DH5 2402 00

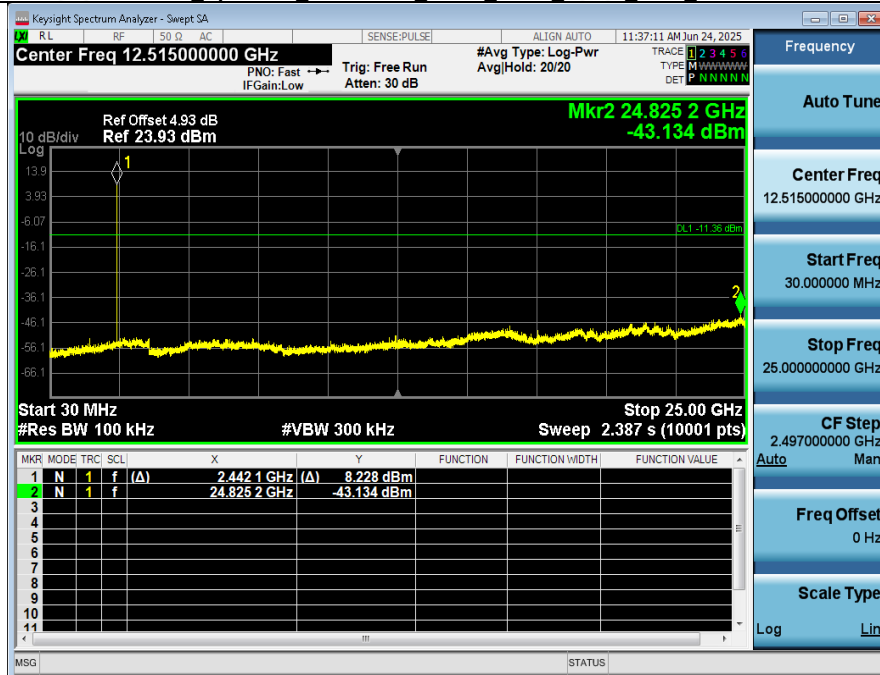


1 Reference Level NVNT ANT1 1-DH5 2441 00





2_Spurious_Emissions_NVNT_ANT1_1-DH5_2441_00

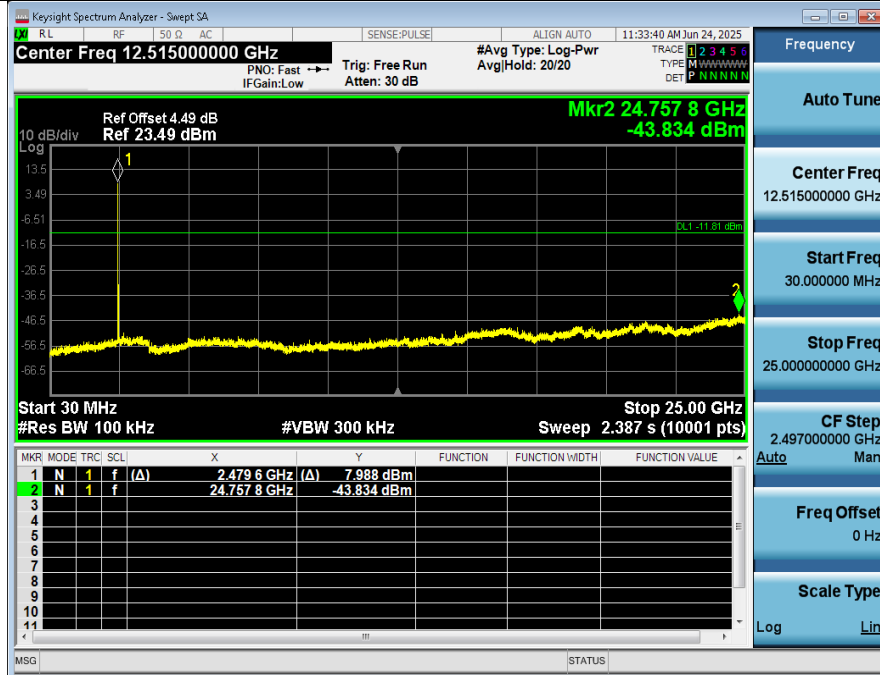


1_Reference_Level_NVNT_ANT1_1-DH5_2480_00





2_Spurious_Emissions_NVNT_ANT1_1-DH5_2480_00

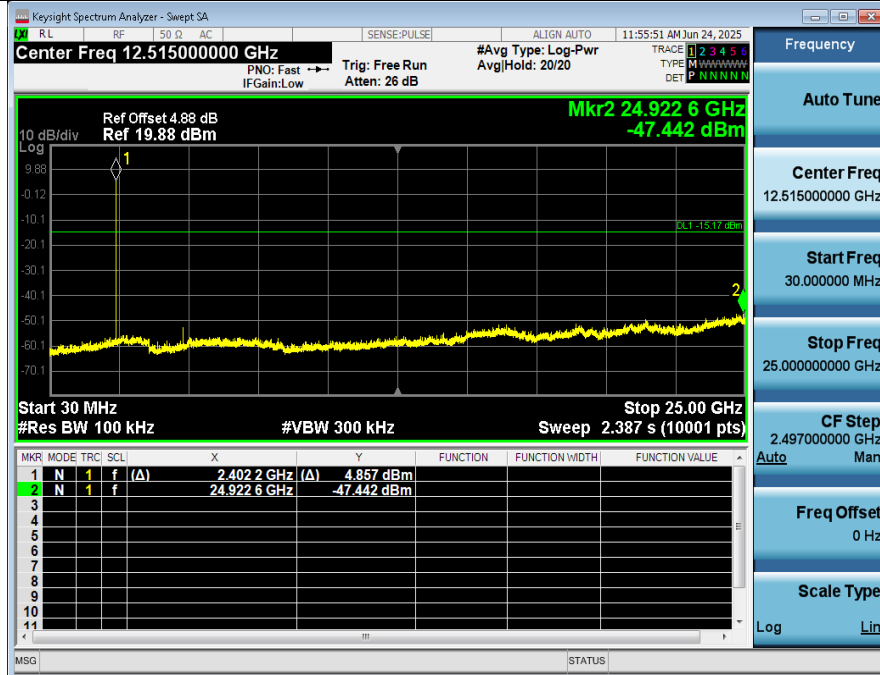


1_Reference_Level_NVNT_ANT1_2-DH5_2402_00





2_Spurious_Emissions_NVNT_ANT1_2-DH5_2402_00

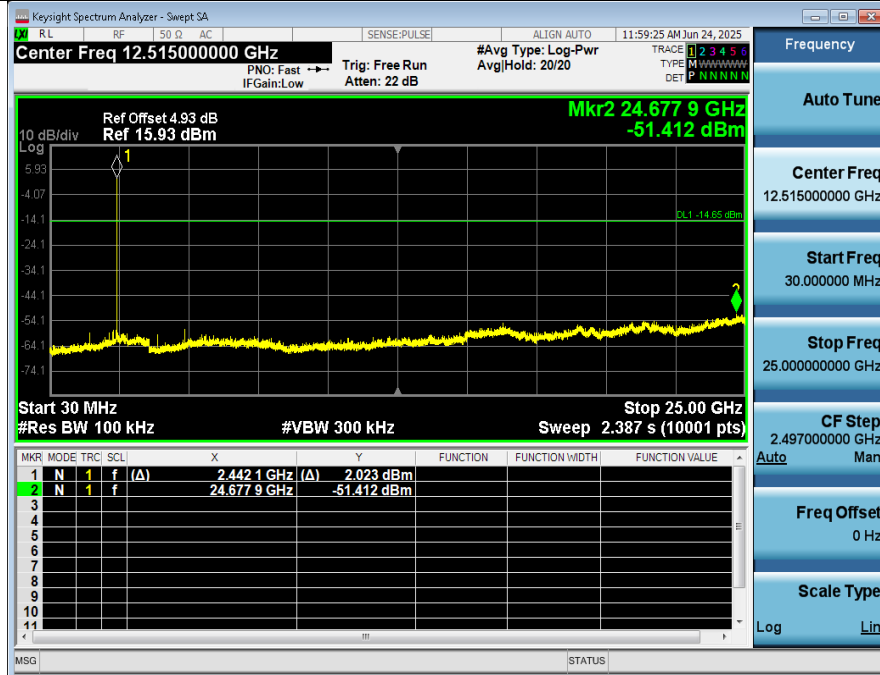


1_Reference_Level_NVNT_ANT1_2-DH5_2441_00





2_Spurious_Emissions_NVNT_ANT1_2-DH5_2441_00

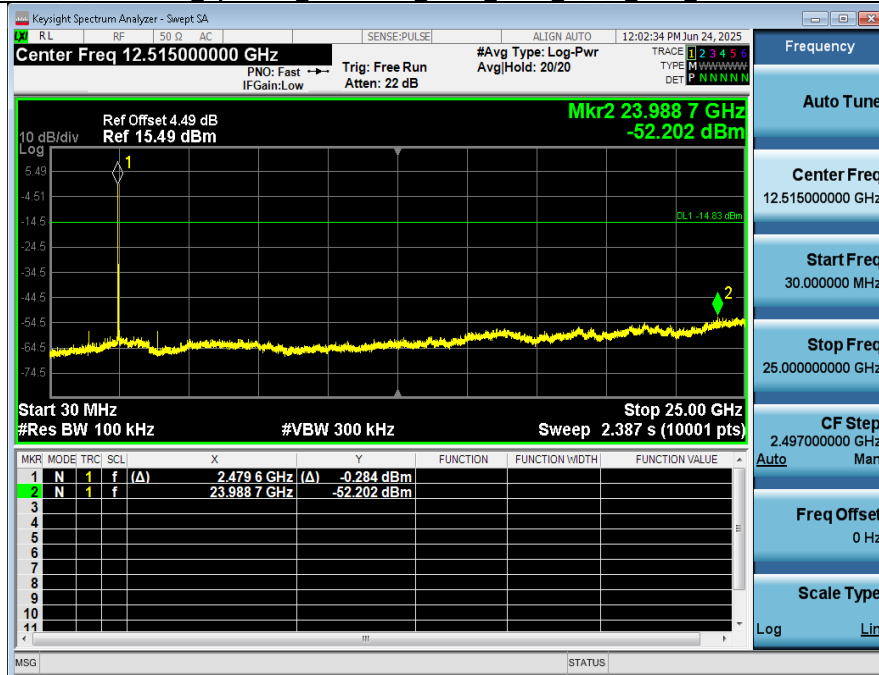


1_Reference_Level_NVNT_ANT1_2-DH5_2480_00





2_Spurious_Emissions_NVNT_ANT1_2-DH5_2480_00

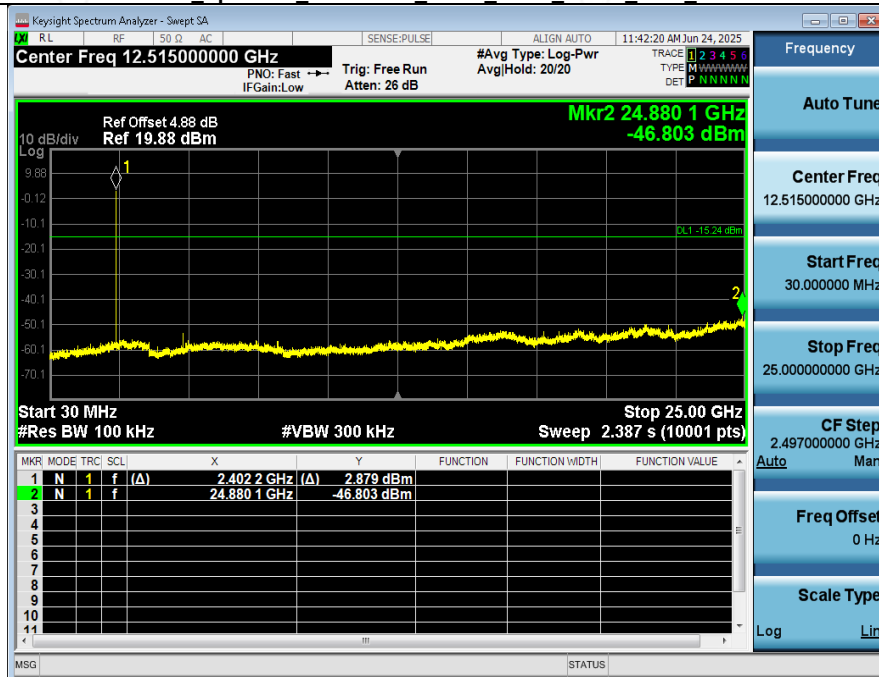


1_Reference_Level_NVNT_ANT1_3-DH5_2402_00



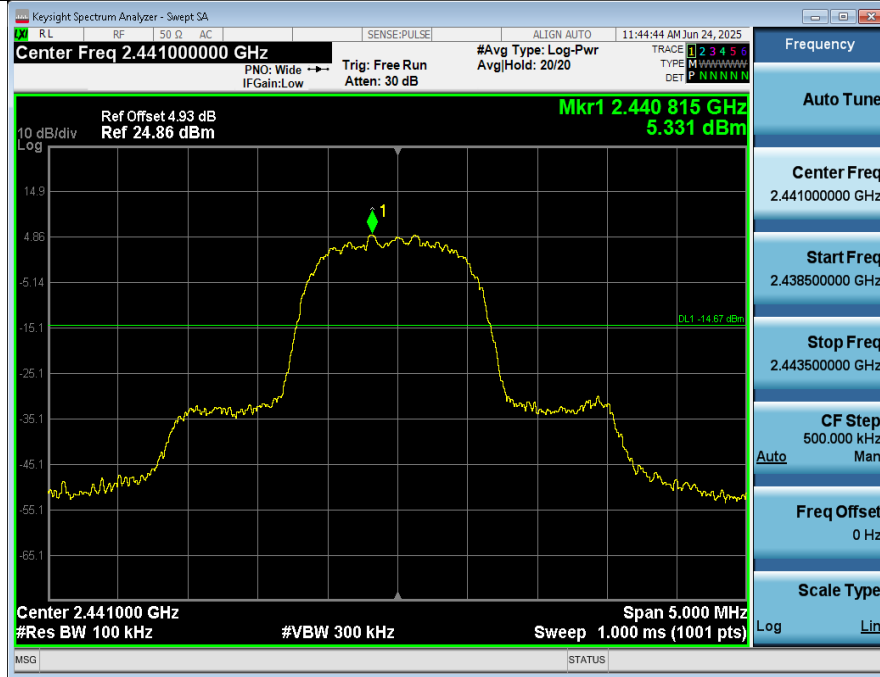


2_Spurious_Emissions_NVNT_ANT1_3-DH5_2402_00

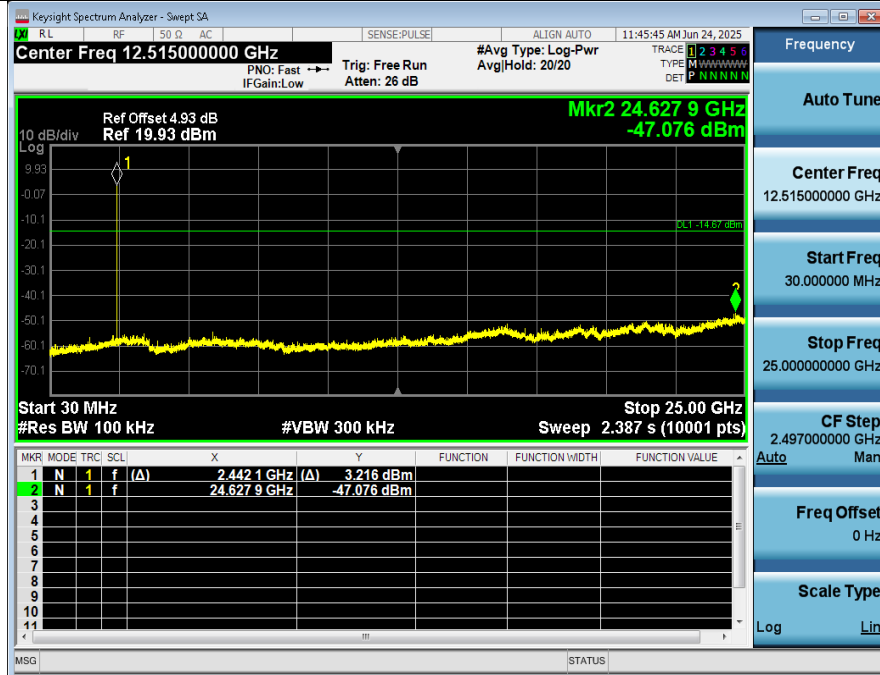


1_Reference_Level_NVNT_ANT1_3-DH5_2441_00





2_Spurious_Emissions_NVNT_ANT1_3-DH5_2441_00

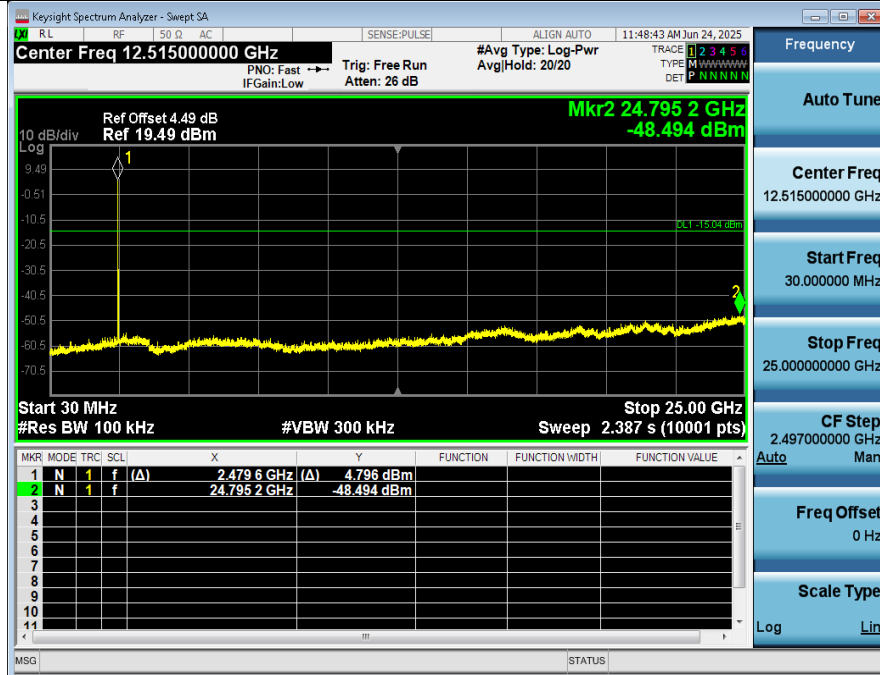


1_Reference_Level_NVNT_ANT1_3-DH5_2480_00





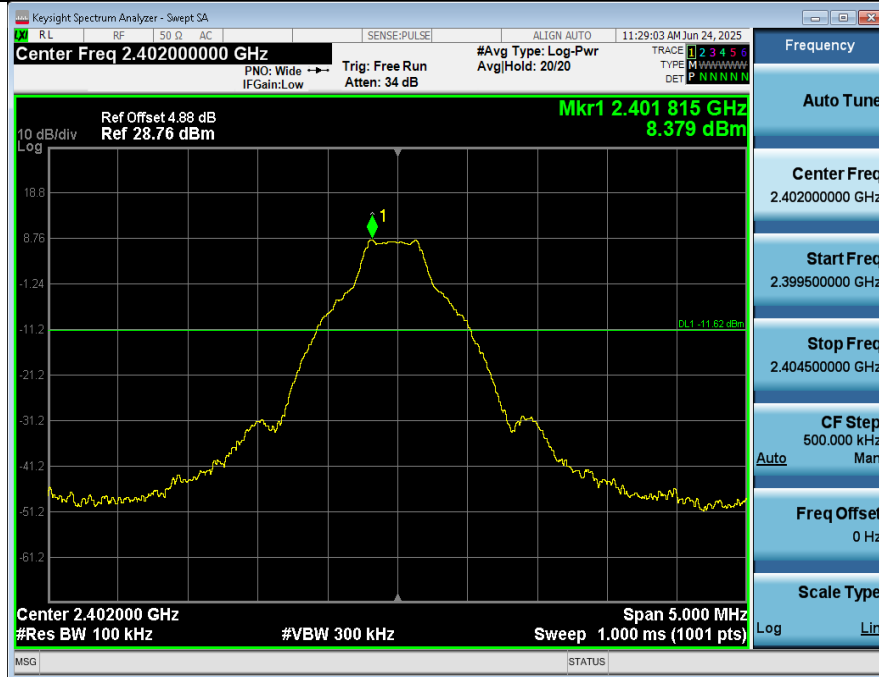
2 Spurious Emissions NVNT ANT1 3-DH5 2480 00



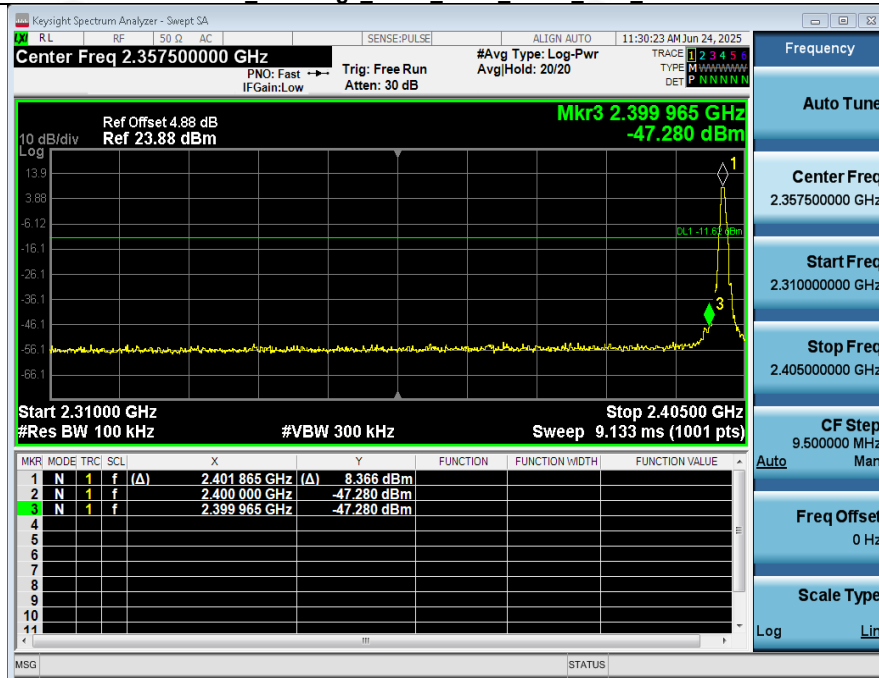
6. Bandedge

Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Bandedge MAX.Value	Limit	Result
NVNT	ANT1	1-DH5	2402.00	8.379	-47.280	-11.621	Pass
NVNT	ANT1	1-DH5	Hopping_LCH	8.864	-48.791	-11.136	Pass
NVNT	ANT1	1-DH5	2480.00	8.194	-52.951	-11.806	Pass
NVNT	ANT1	1-DH5	Hopping_HCH	8.254	-53.533	-11.746	Pass
NVNT	ANT1	2-DH5	2402.00	4.832	-49.453	-15.168	Pass
NVNT	ANT1	2-DH5	Hopping_LCH	5.476	-52.826	-14.524	Pass
NVNT	ANT1	2-DH5	2480.00	5.174	-57.496	-14.826	Pass
NVNT	ANT1	2-DH5	Hopping_HCH	4.450	-59.949	-15.550	Pass
NVNT	ANT1	3-DH5	2402.00	4.762	-49.976	-15.238	Pass
NVNT	ANT1	3-DH5	Hopping_LCH	4.982	-53.745	-15.018	Pass
NVNT	ANT1	3-DH5	2480.00	4.957	-55.537	-15.043	Pass
NVNT	ANT1	3-DH5	Hopping_HCH	4.335	-58.957	-15.665	Pass

1 Reference Level NVNT ANT1 1-DH5 2402_00

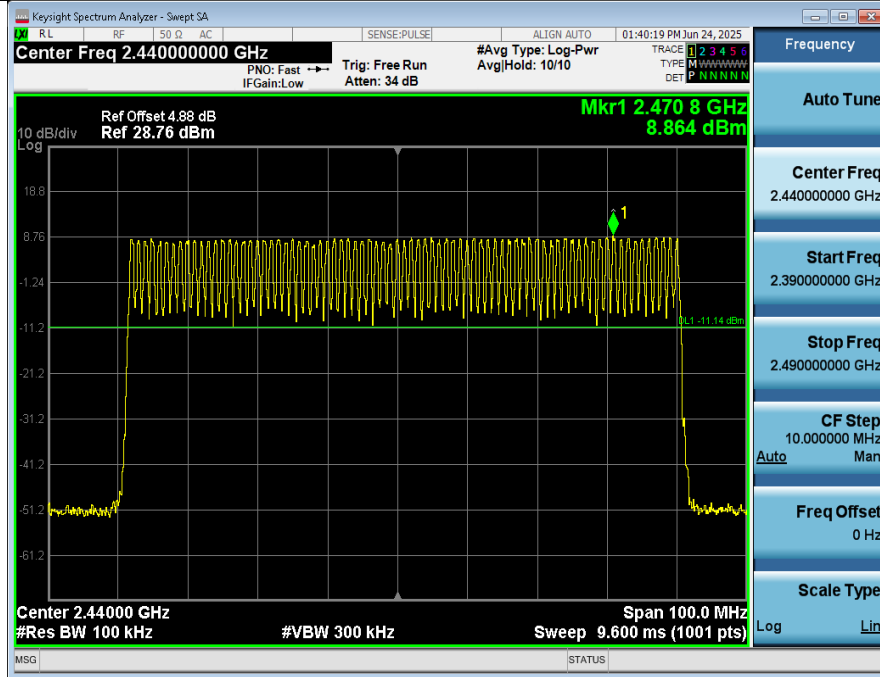


2 Bandedge NVNT ANT1 1-DH5 2402_00

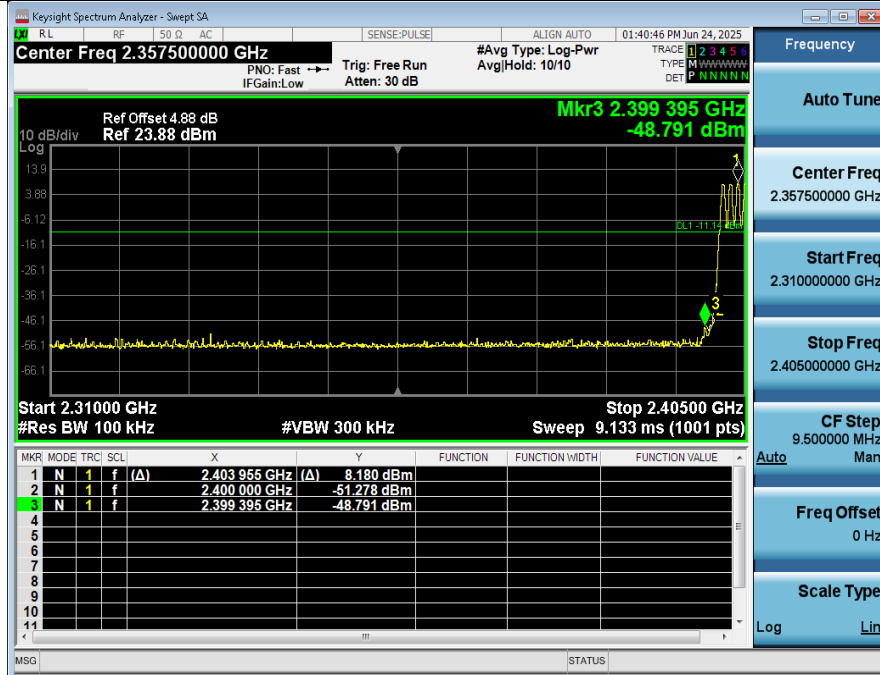


1 Reference Level Hopping NVNT ANT1 1-DH5 Hopping





2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH5_Hopping

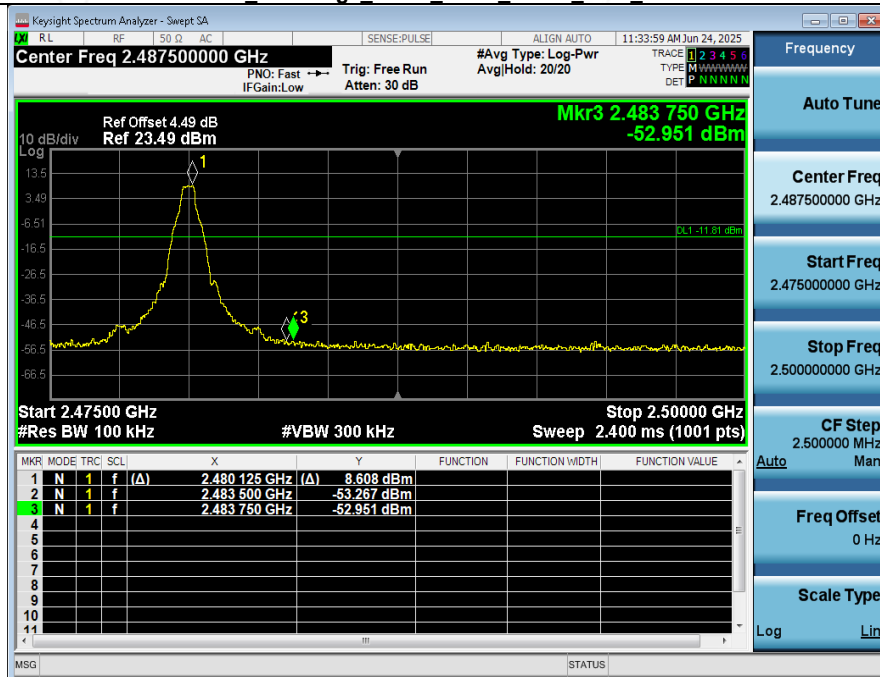


1_Reference_Level_NVNT_ANT1_1-DH5_2480_00





2_Bandedge_NVNT_ANT1_1-DH5_2480_00

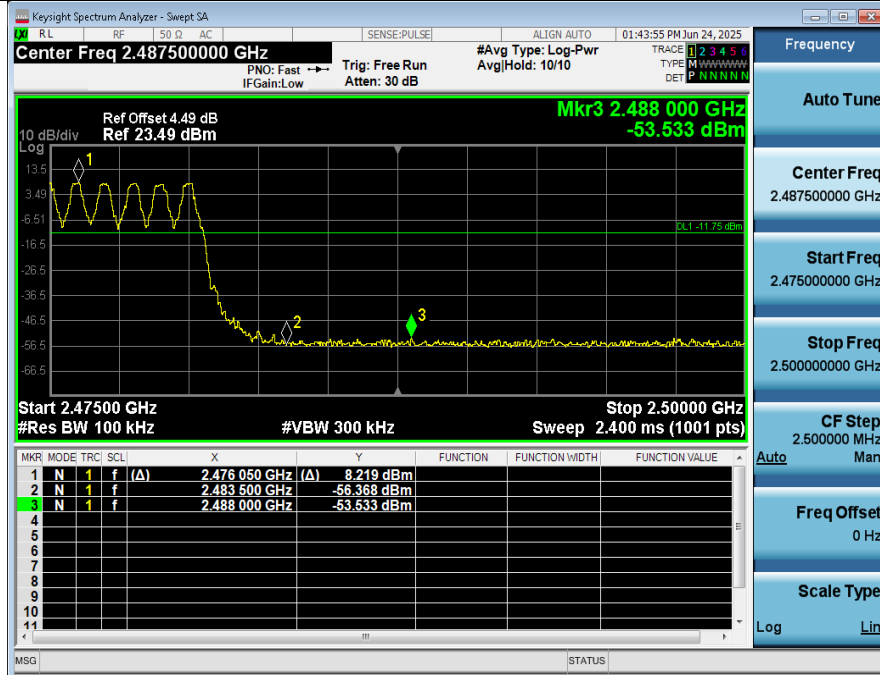


1_Reference_Level_Hopping_NVNT_ANT1_1-DH5_Hopping





2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH5_Hopping

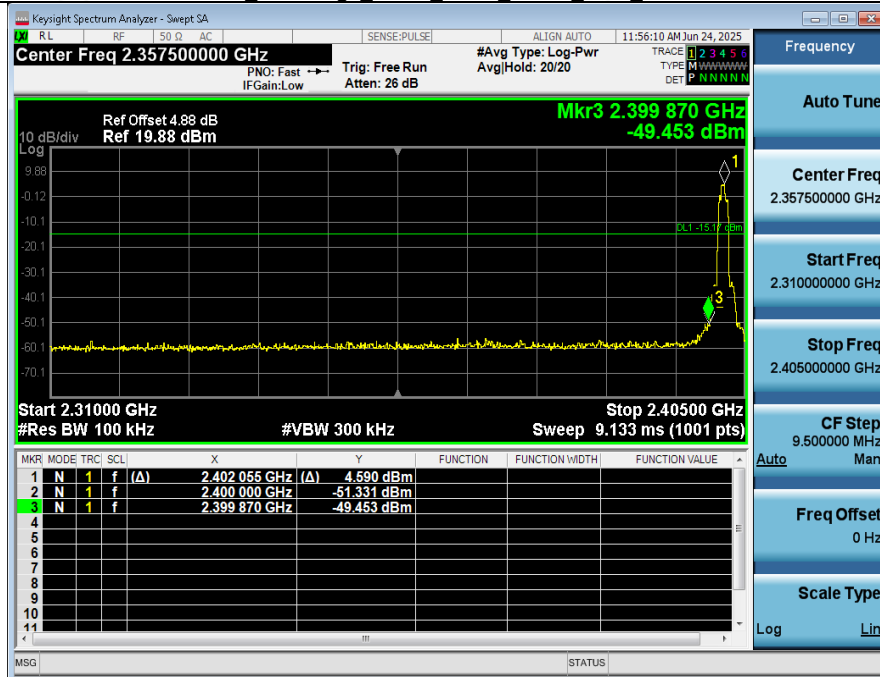


1_Reference_Level_NVNT_ANT1_2-DH5_2402_00



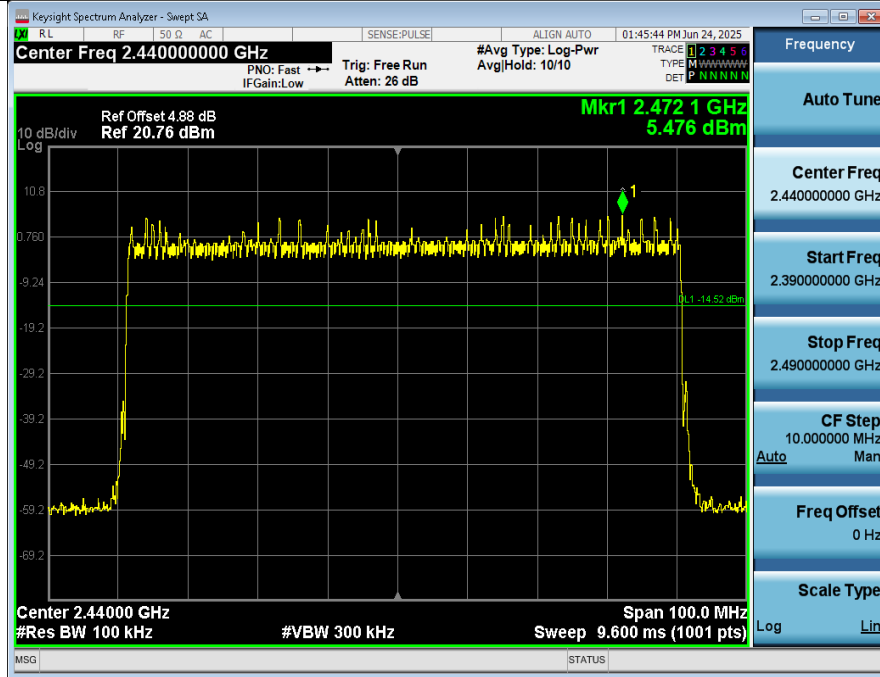


2_Bandedge_NVNT_ANT1_2-DH5_2402_00

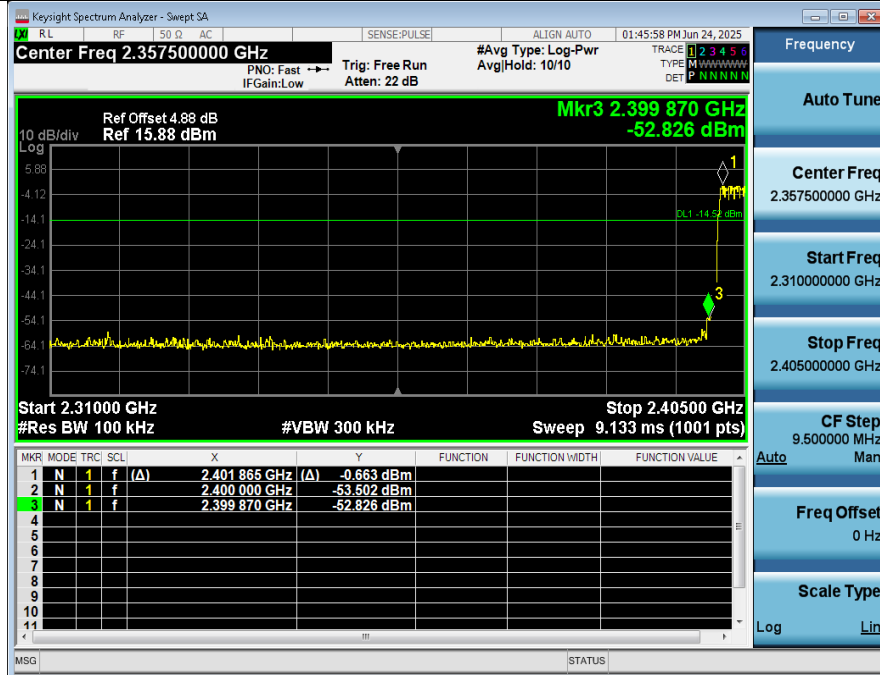


1_Reference_Level_Hopping_NVNT_ANT1_2-DH5_Hopping





2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH5_Hopping

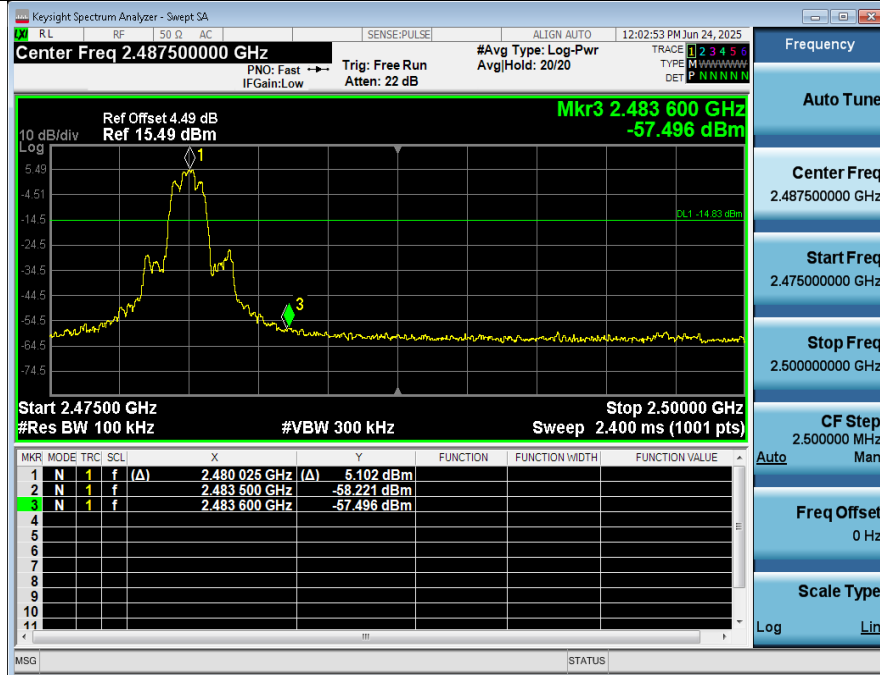


1_Reference_Level_NVNT_ANT1_2-DH5_2480_00



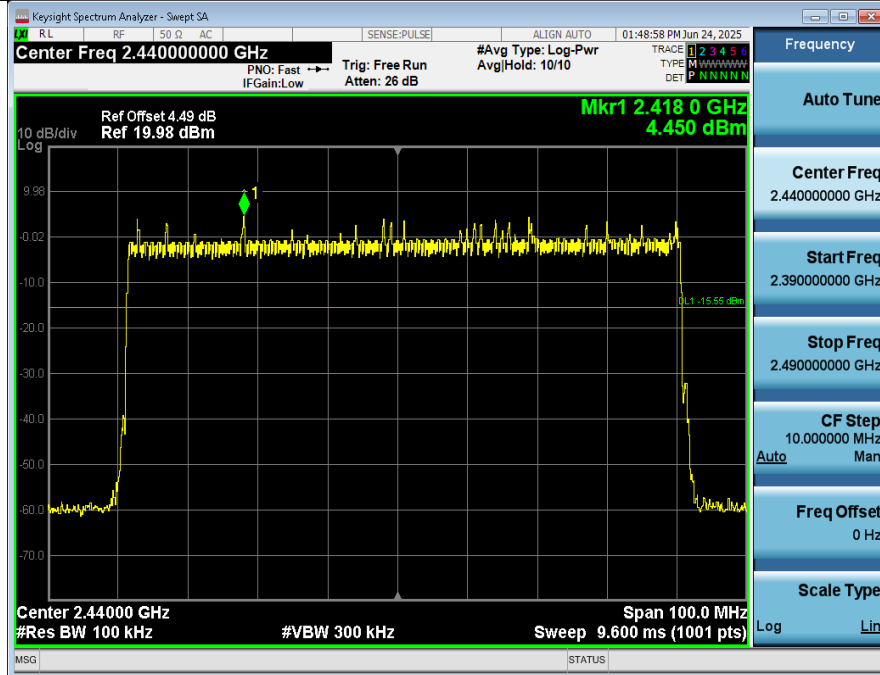


2_Bandedge_NVNT_ANT1_2-DH5_2480_00

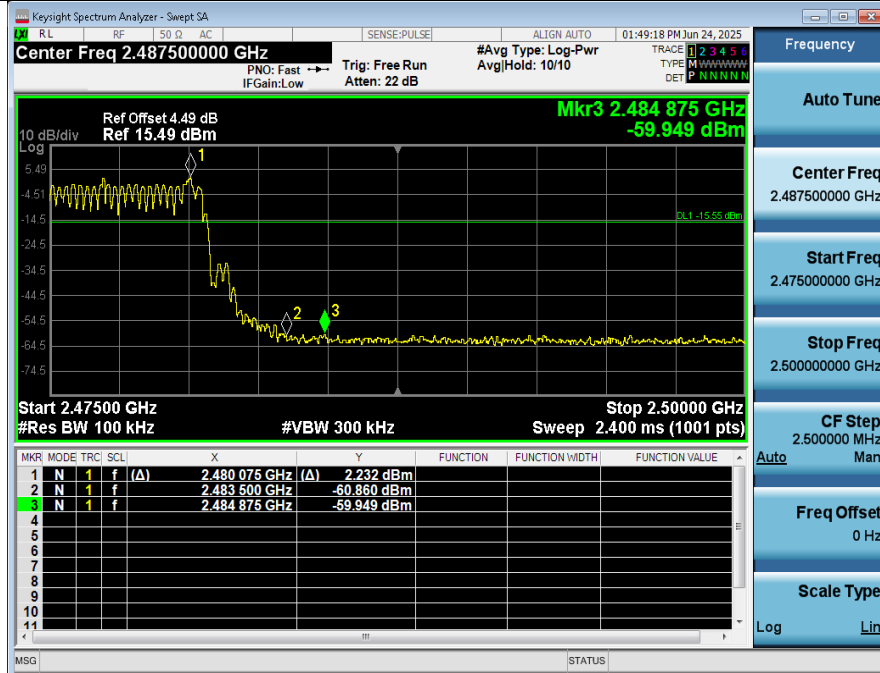


1_Reference_Level_Hopping_NVNT_ANT1_2-DH5_Hopping





2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH5_Hopping

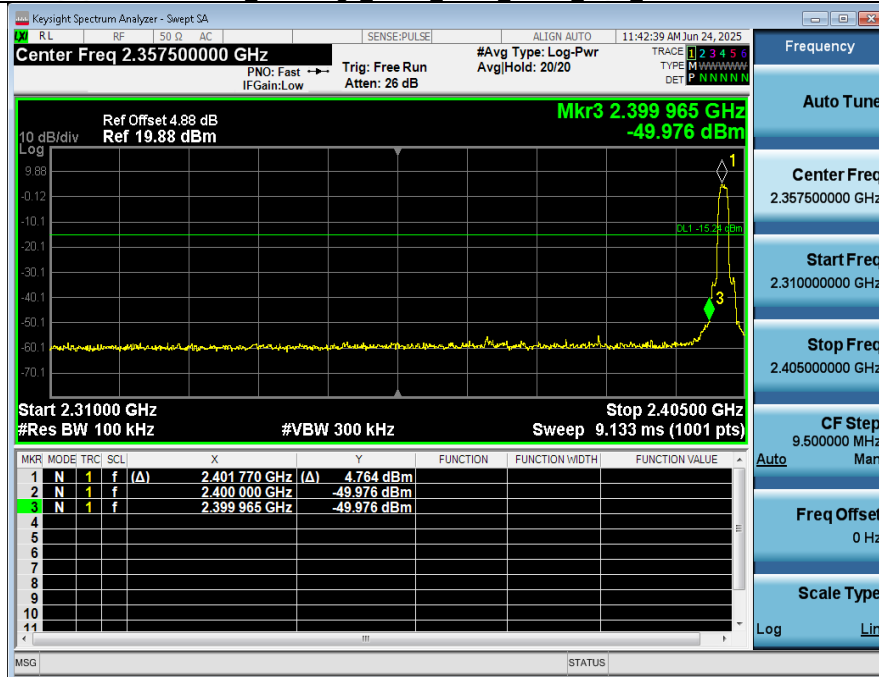


1_Reference_Level_NVNT_ANT1_3-DH5_2402_00



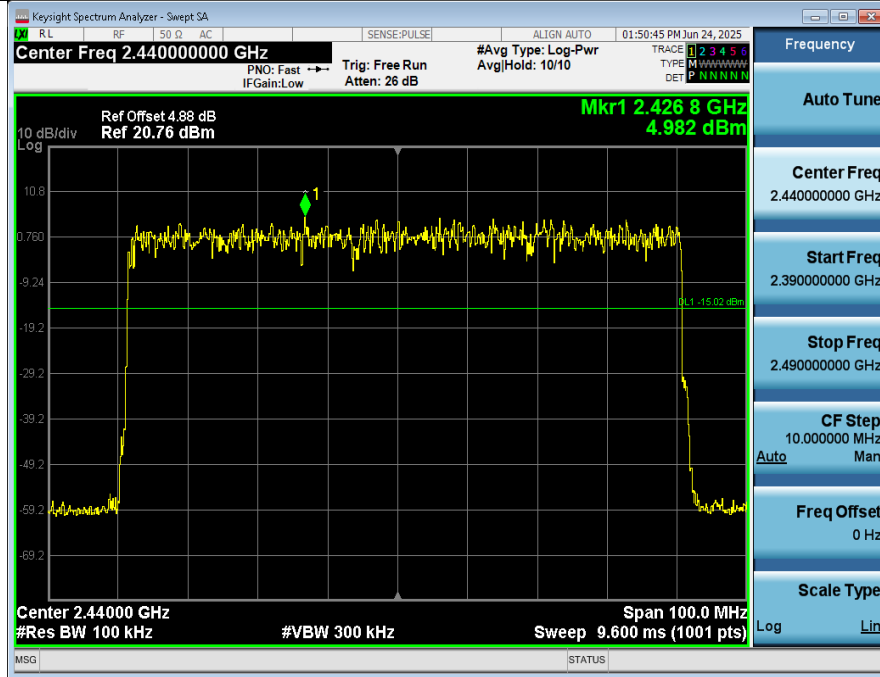


2_Bandedge_NVNT_ANT1_3-DH5_2402_00

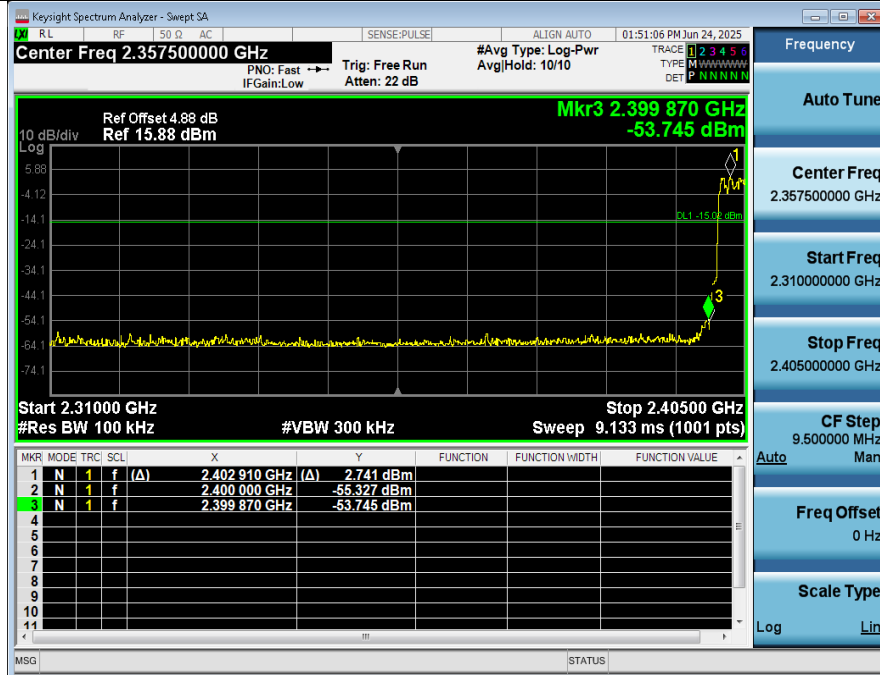


1_Reference_Level_Hopping_NVNT_ANT1_3-DH5_Hopping



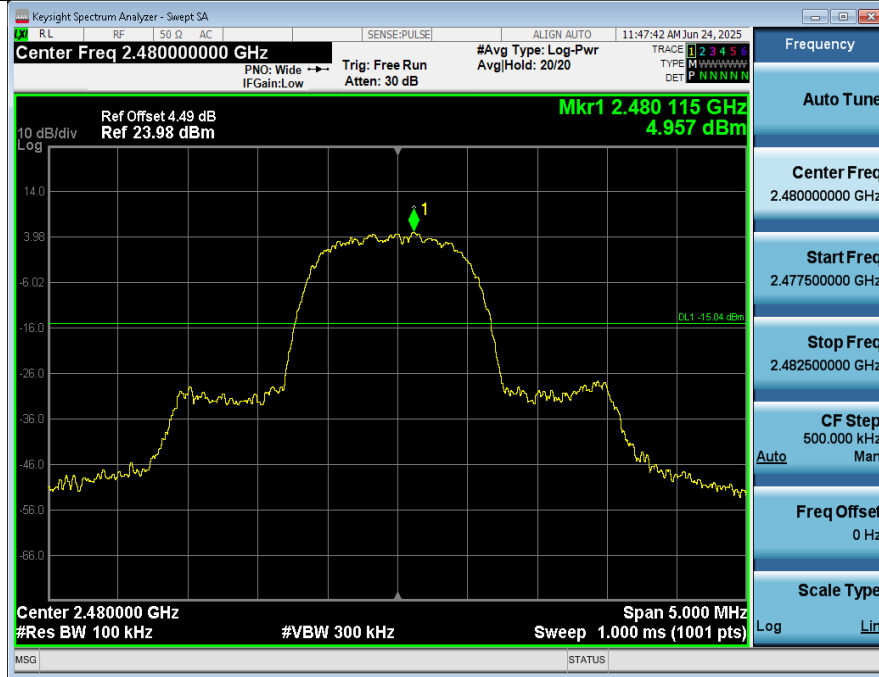


2_Band_Edge_(Hopping)_NVNT_ANT1_3-DH5_Hopping

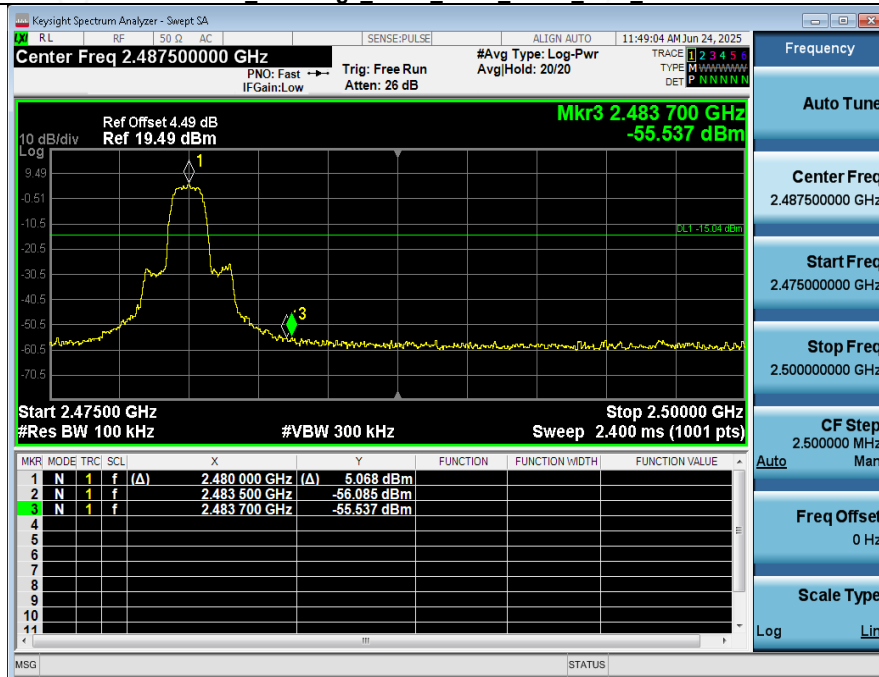


1_Reference_Level_NVNT_ANT1_3-DH5_2480_00



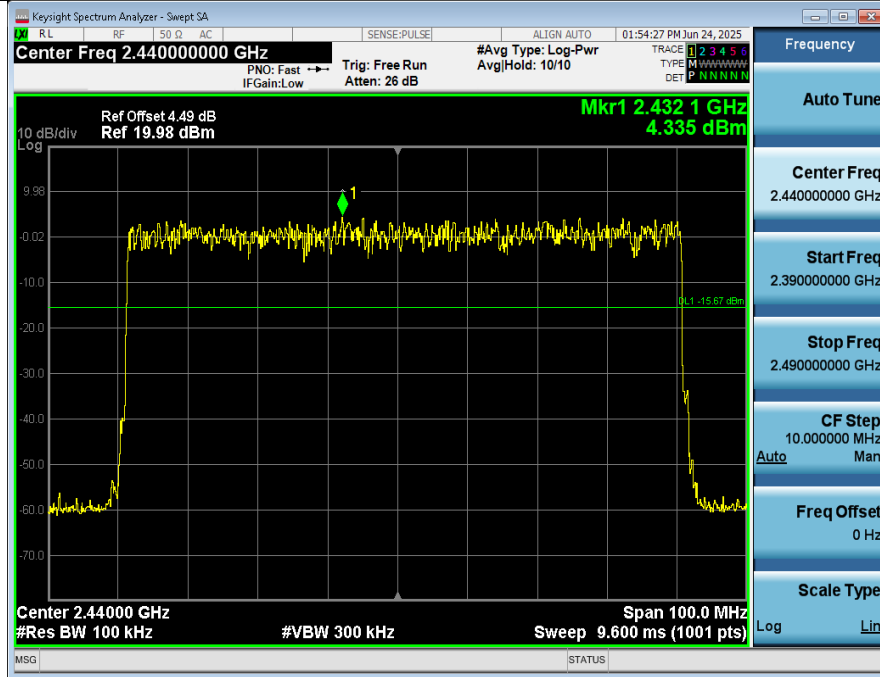


2_Bandedge_NVNT_ANT1_3-DH5_2480_00

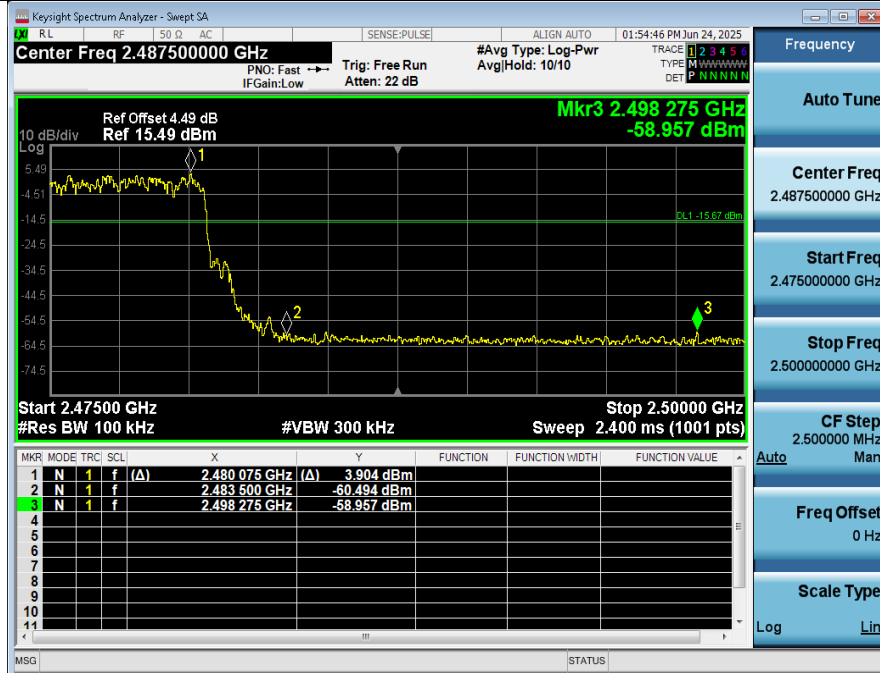


1_Reference_Level_Hopping_NVNT_ANT1_3-DH5_Hopping





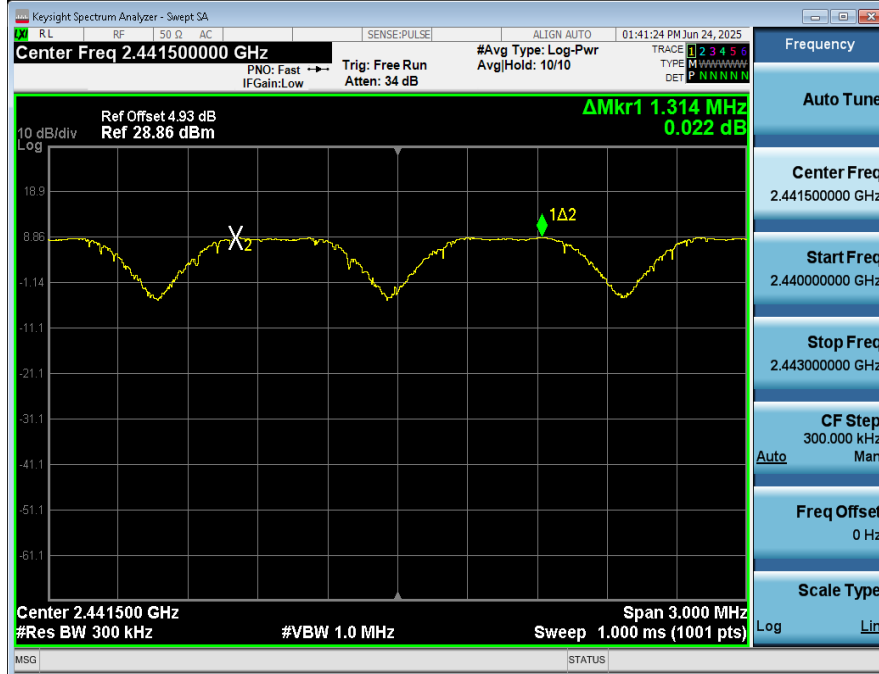
2_Band_Edge_(Hopping)_NVNT_ANT1_3-DH5_Hopping



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	2441.00	2440.804	2442.118	1.31	0.683	Pass
NVNT	ANT1	2-DH5	2441.00	2441.116	2442.097	0.98	0.868	Pass
NVNT	ANT1	3-DH5	2441.00	2440.762	2442.214	1.45	0.874	Pass

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

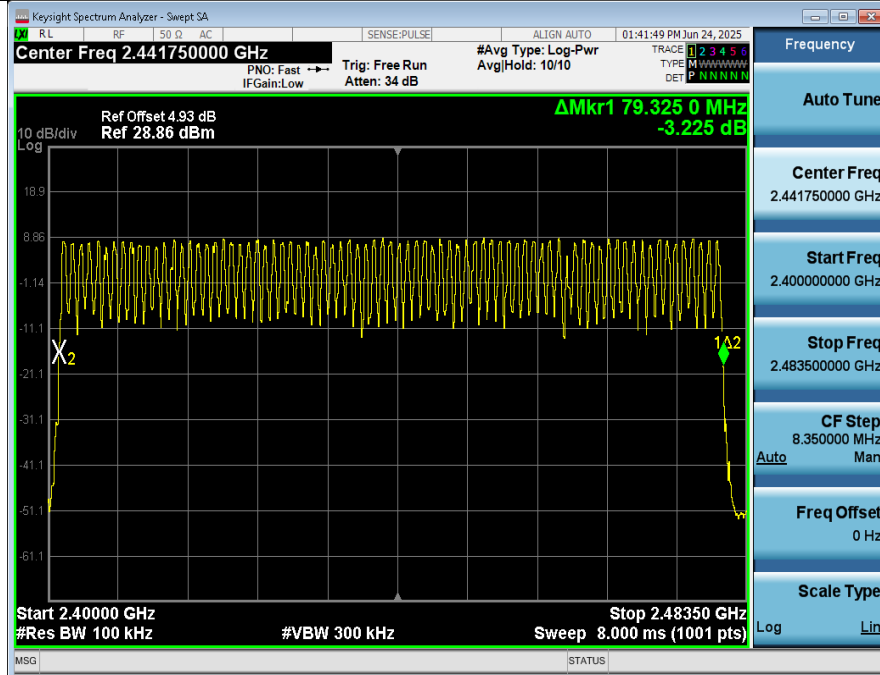




8. Number of Hopping Channel (Hopping)

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	80	15	Pass

Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_1-DH5_Hopping

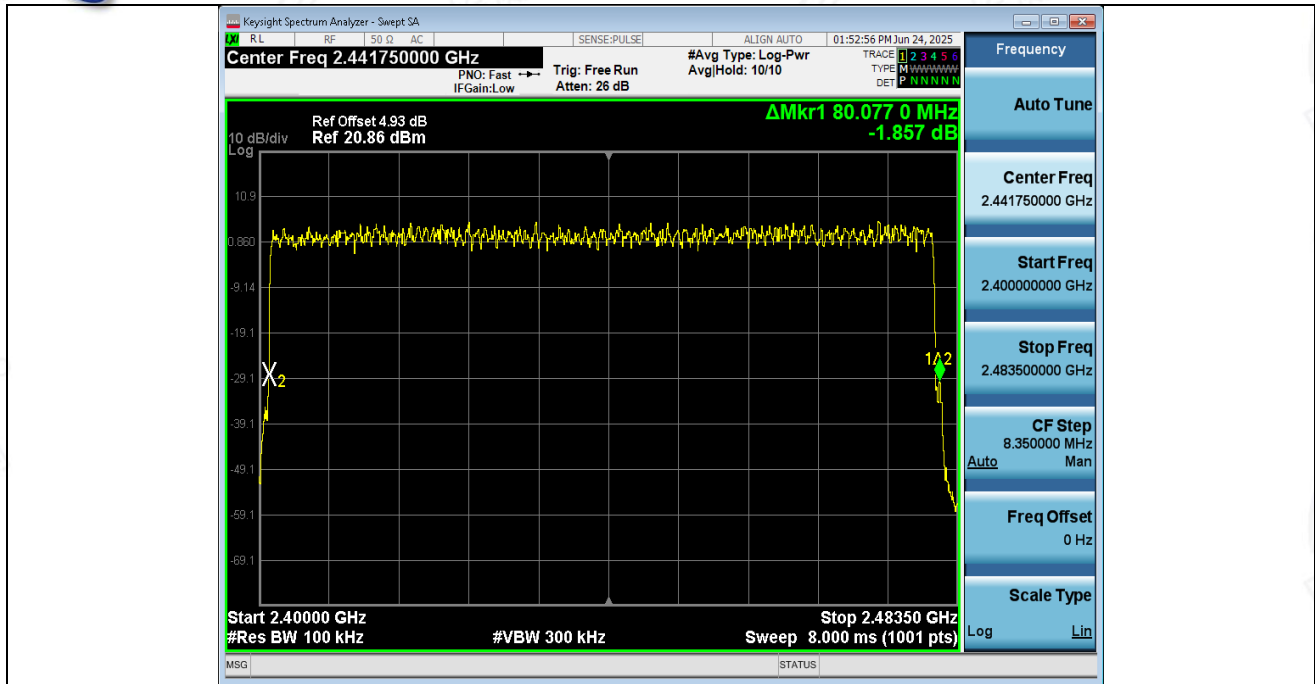


Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_2-DH5_Hopping



Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_3-DH5_Hopping

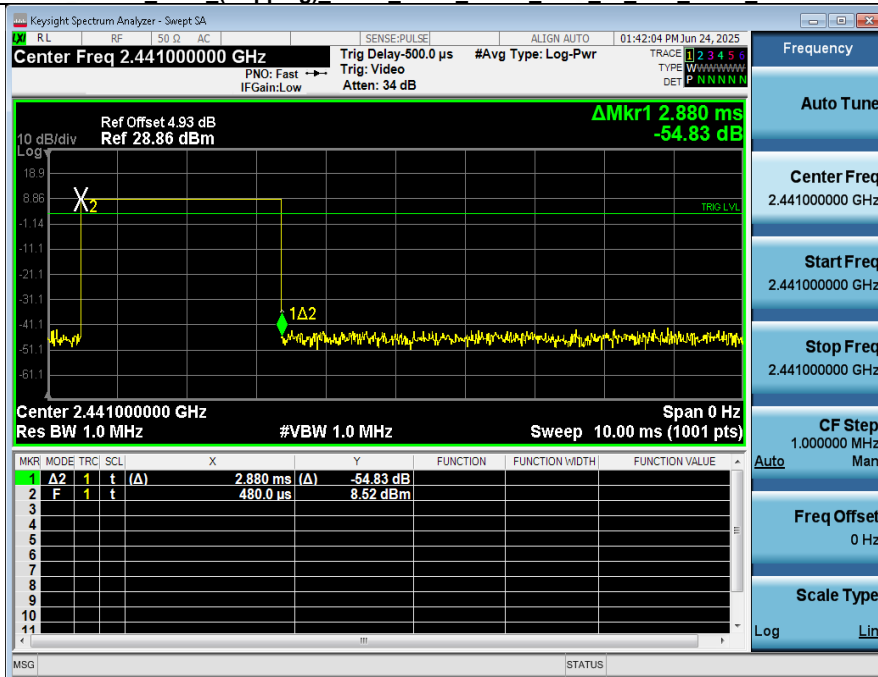




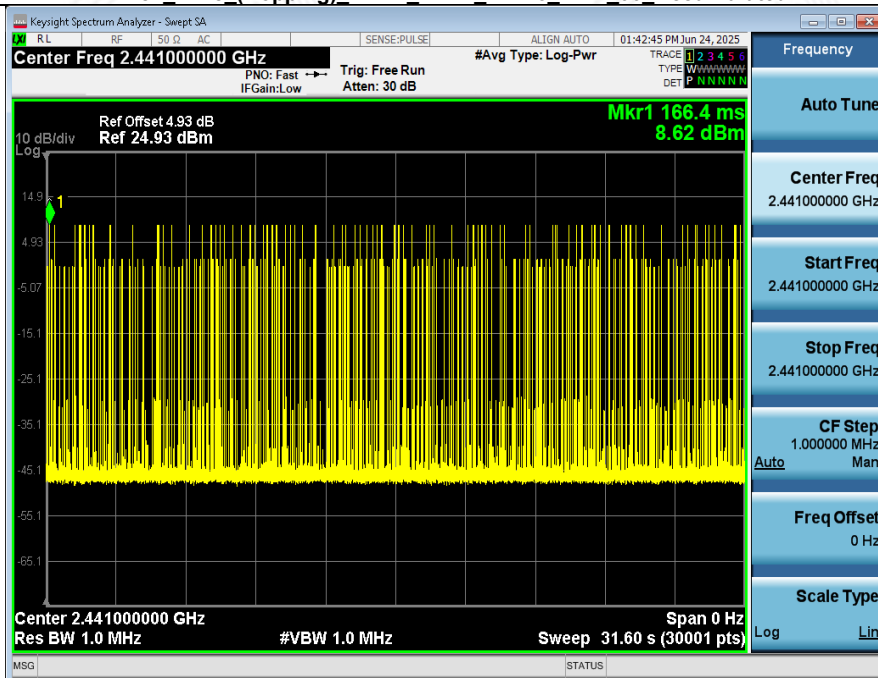
9. Dwell Time (Hopping)

Condition	Antenna	Packet Type	Pulse Time(ms)	Hops	Dwell Time(ms)	Limit(s)	Result
NVNT	ANT1	1-DH5	2.880	100.00	288.000	0.40	Pass
NVNT	ANT1	2-DH5	2.890	117.00	338.130	0.40	Pass
NVNT	ANT1	3-DH5	2.890	105.00	303.450	0.40	Pass

Dwell_Time (Hopping)_NVNT_ANT1_1-DH5_2441_00_One_Burst_Time

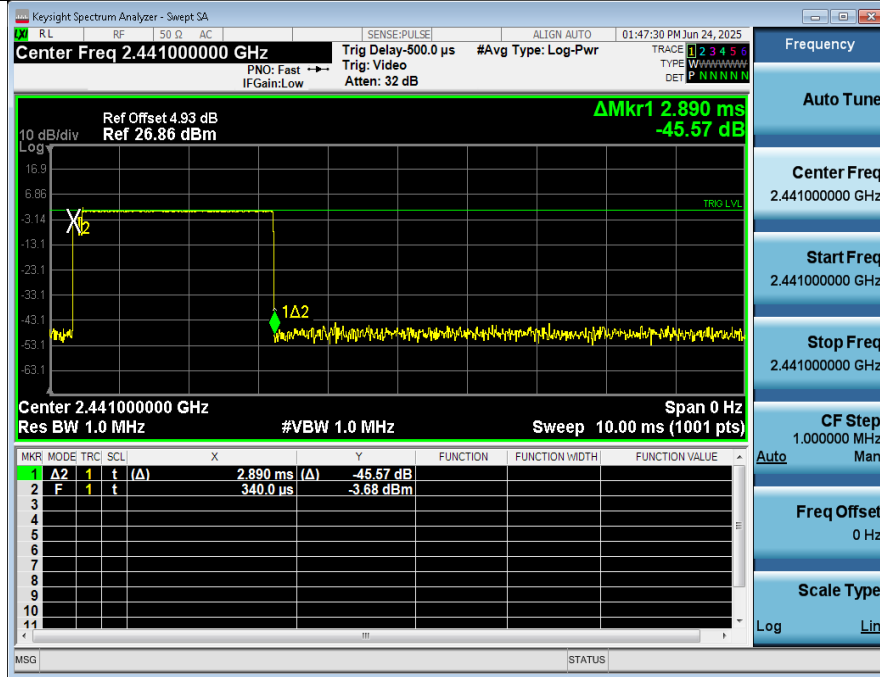


Dwell_Time (Hopping)_NVNT_ANT1_1-DH5_2441_00_Accumulated

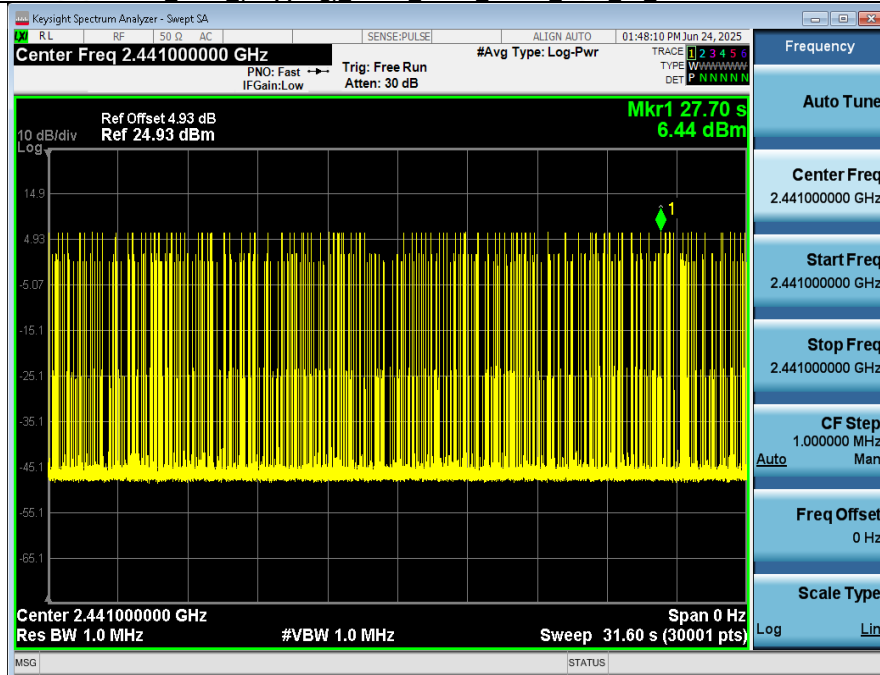


Dwell_Time (Hopping)_NVNT_ANT1_2-DH5_2441_00_One_Burst_Time



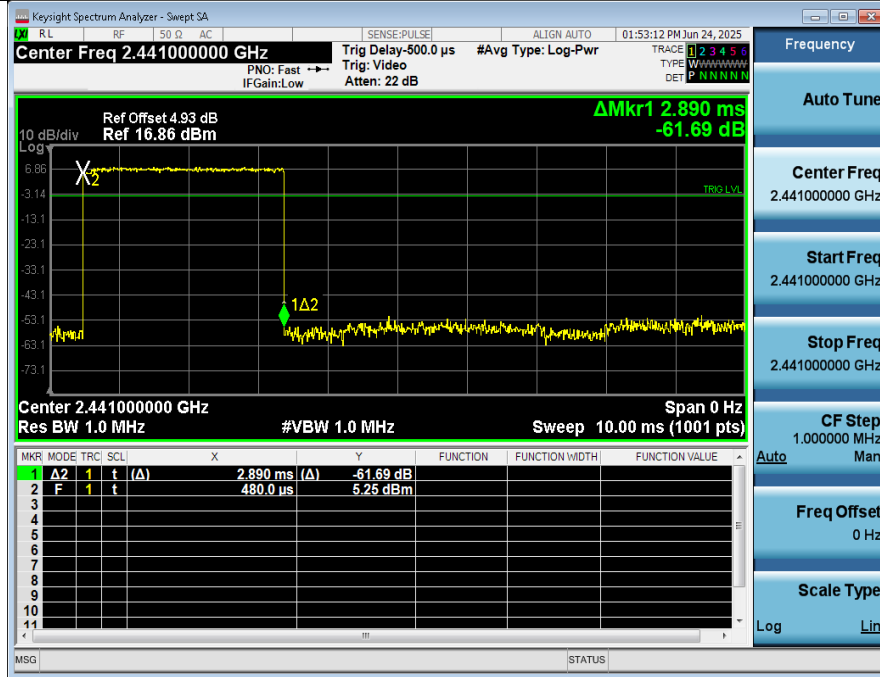


Dwell Time (Hopping) NVNT_ANT1_2-DH5_2441_00_Accumulated



Dwell Time (Hopping) NVNT_ANT1_3-DH5_2441_00_One_Burst_Time





Dwell Time (Hopping) NVNT_ANT1_3-DH5_2441_00_Accumulated

