

Appendix

Test Data

for BTEK250606024A01-T01

Start date	2025/7/21	Finish date	2025/7/21
Temperature	23.0°C	Humidity	54%
RF specifications	BLE	Test Engineer	Zora



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1. -6dB Bandwidth

Condition	Antenna	Rate	Frequency (MHz)	-6dB BW(kHz)	limit(kHz)	Result
NVNT	ANT1	1Mbps	2402.00	682.63	500	Pass
NVNT	ANT1	1Mbps	2440.00	674.27	500	Pass
NVNT	ANT1	1Mbps	2480.00	679.04	500	Pass
NVNT	ANT1	2Mbps	2402.00	1143.85	500	Pass
NVNT	ANT1	2Mbps	2440.00	1155.26	500	Pass
NVNT	ANT1	2Mbps	2480.00	1149.39	500	Pass

-6dB_Bandwidth_NVNT_ANT1_1Mbps_2402

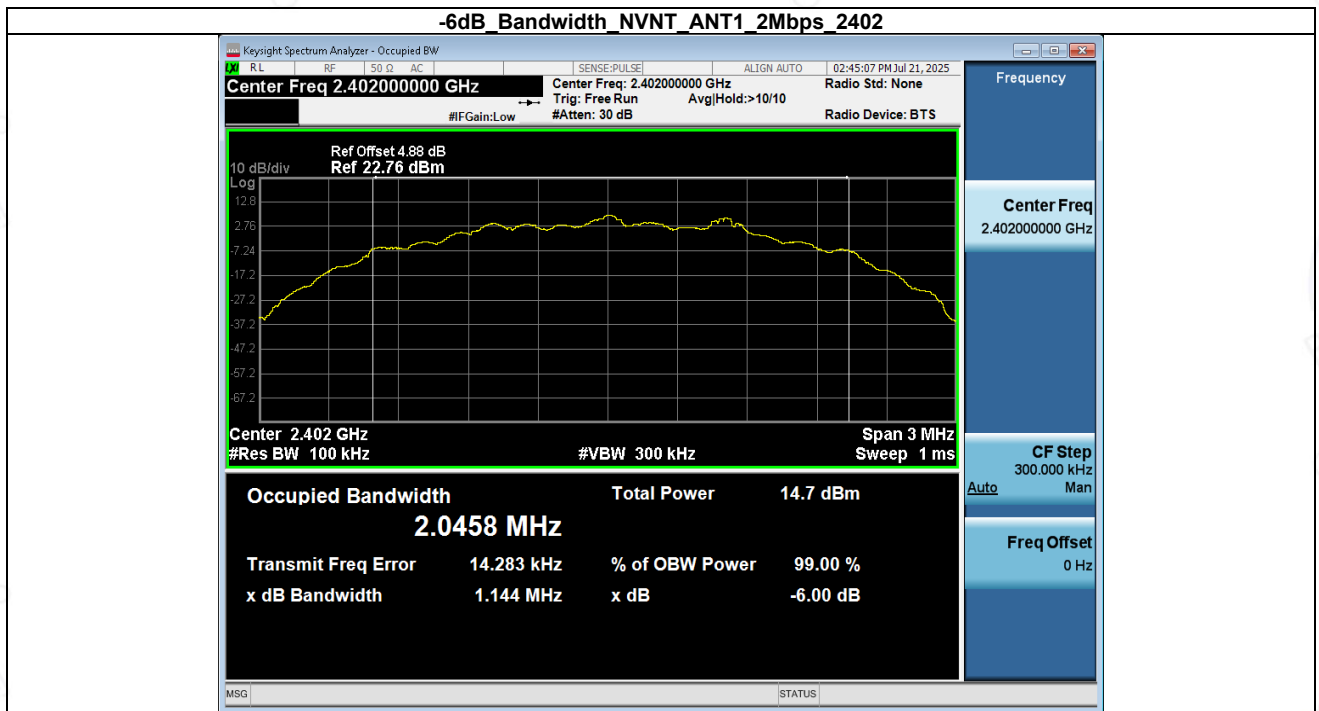


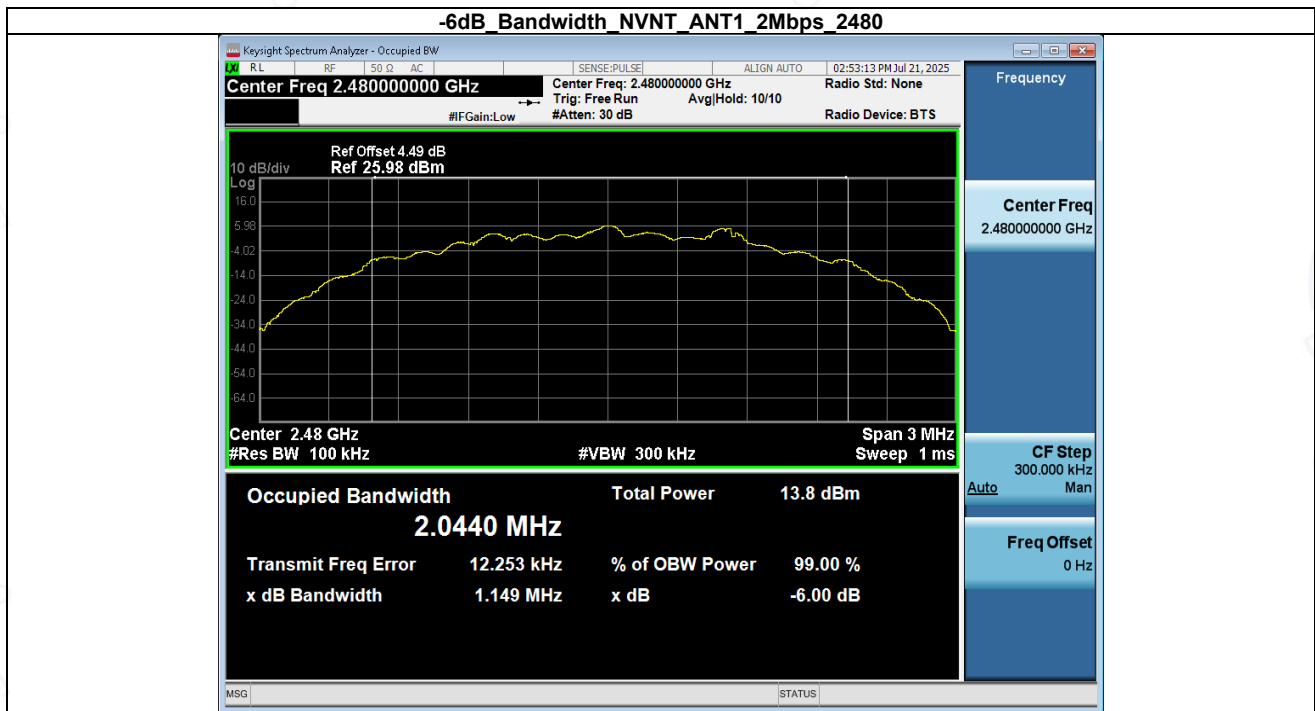
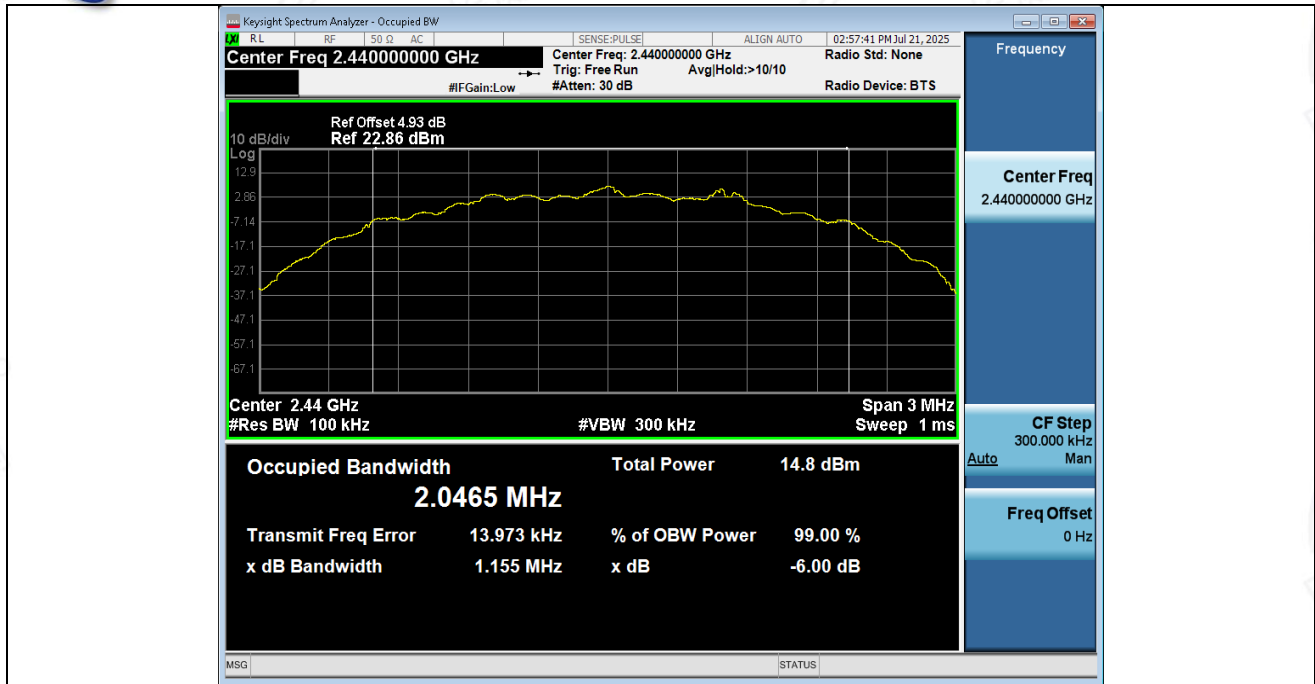
-6dB_Bandwidth_NVNT_ANT1_1Mbps_2440



-6dB_Bandwidth_NVNT_ANT1_1Mbps_2480







2. 99% Occupied Bandwidth

Condition	Antenna	Rate	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	1Mbps	2402.00	1.021
NVNT	ANT1	1Mbps	2440.00	1.024
NVNT	ANT1	1Mbps	2480.00	1.023
NVNT	ANT1	2Mbps	2402.00	2.037
NVNT	ANT1	2Mbps	2440.00	2.036
NVNT	ANT1	2Mbps	2480.00	2.034

99% Occupied Bandwidth NVNT ANT1 1Mbps 2402

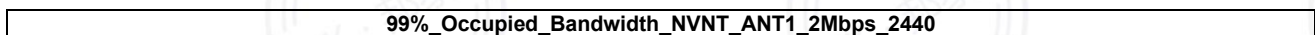
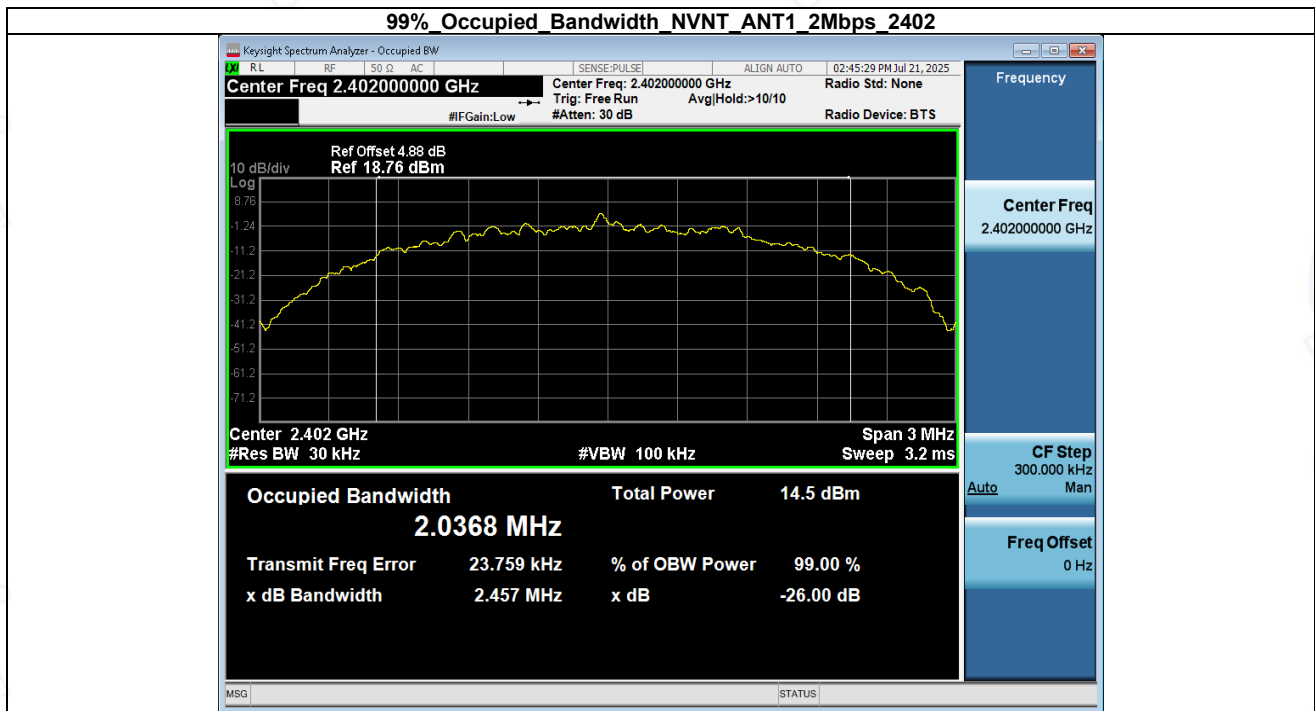


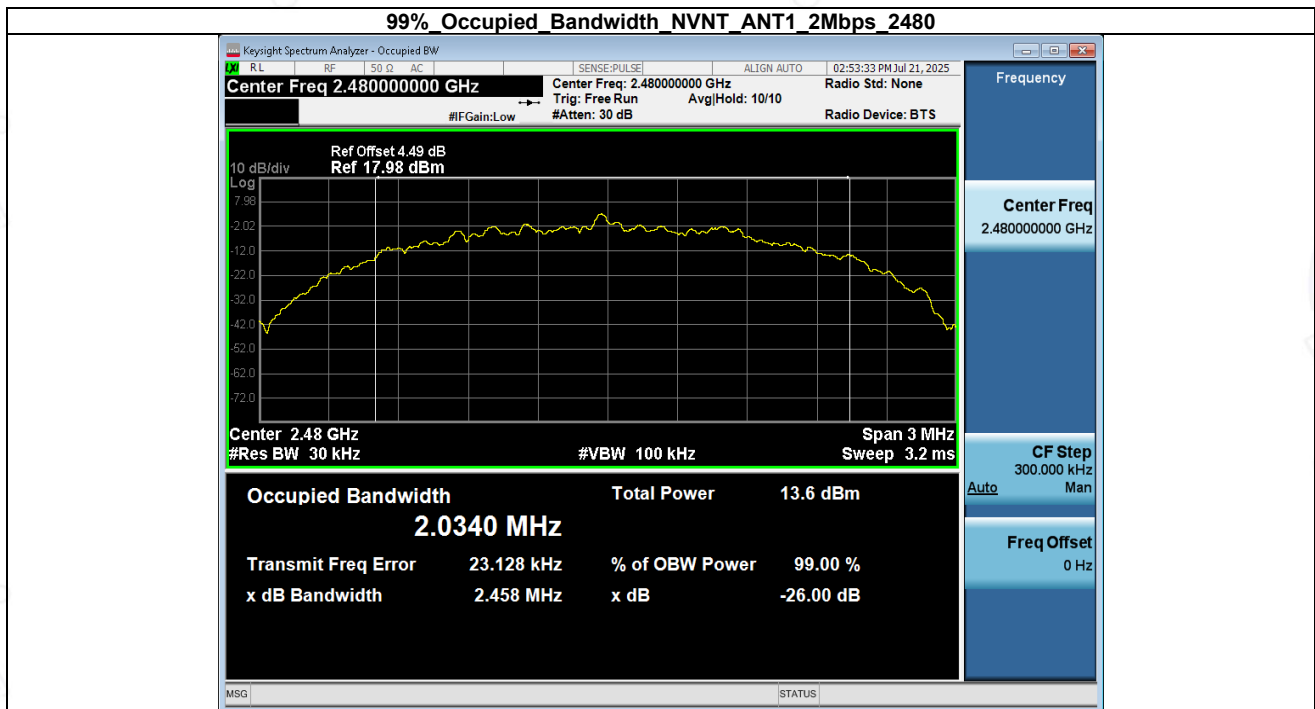
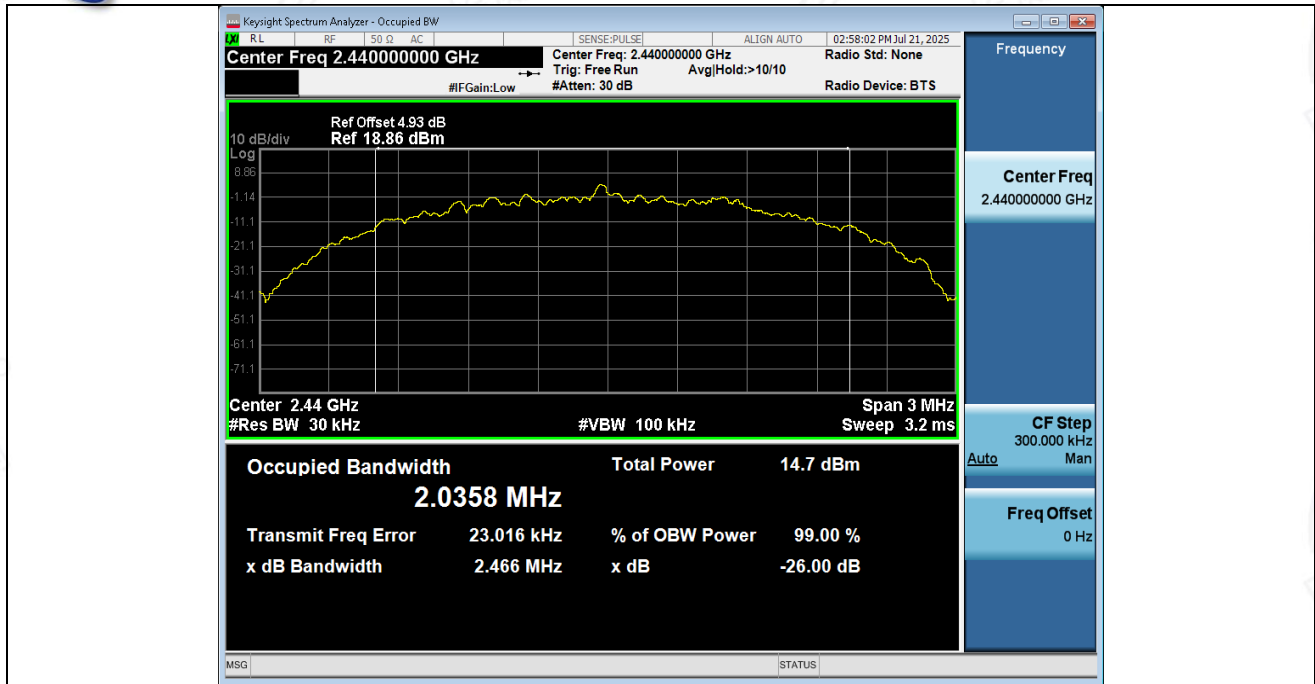
99% Occupied Bandwidth NVNT ANT1 1Mbps 2440



99% Occupied Bandwidth NVNT ANT1 1Mbps 2480



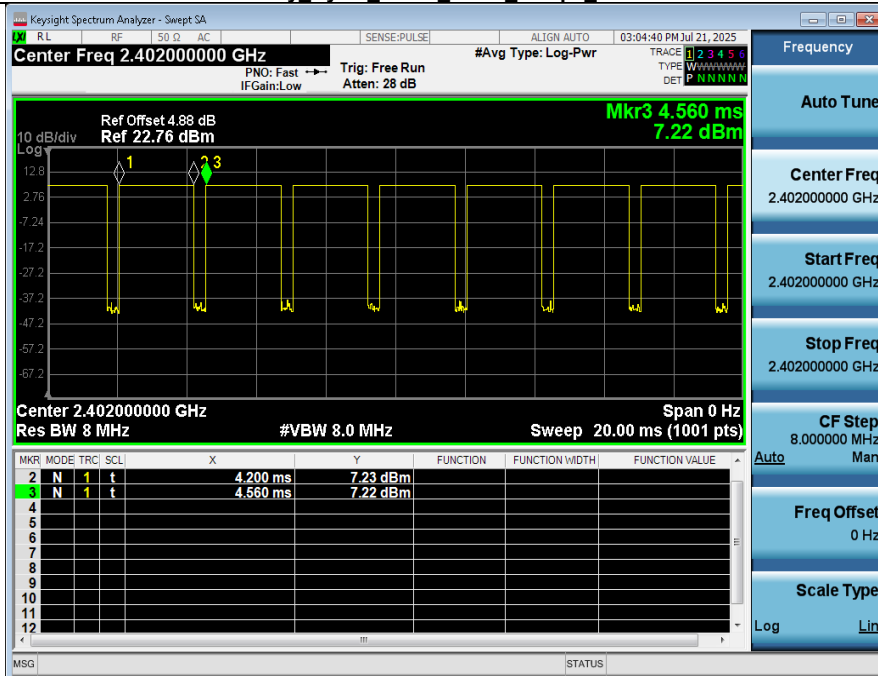




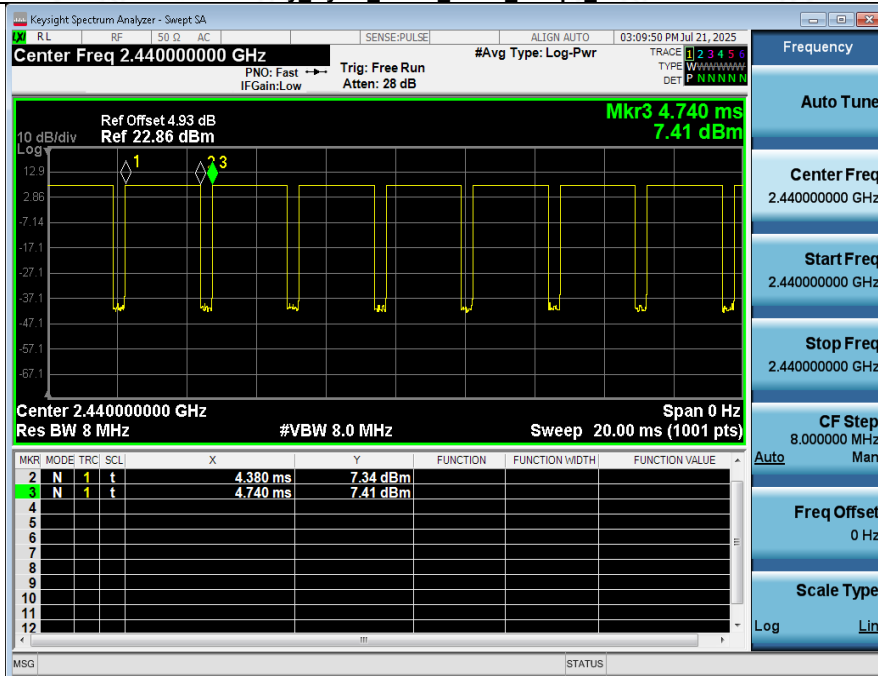
3. Duty Cycle

Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	1Mbps	2402.00	86.40	0.63
NVNT	ANT1	1Mbps	2440.00	86.40	0.63
NVNT	ANT1	1Mbps	2480.00	86.40	0.63
NVNT	ANT1	2Mbps	2402.00	59.14	2.28
NVNT	ANT1	2Mbps	2440.00	57.45	2.41
NVNT	ANT1	2Mbps	2480.00	58.51	2.33

Duty_Cycle_NVNT_ANT1_1Mbps_2402

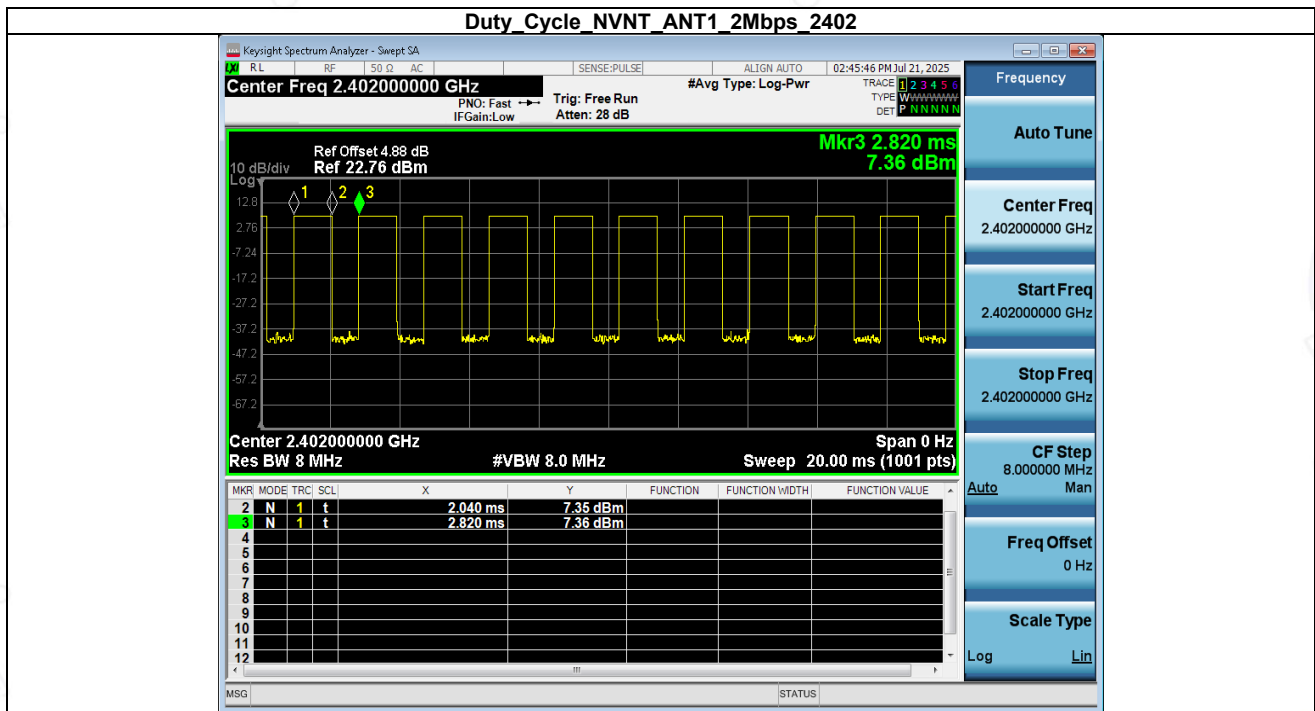
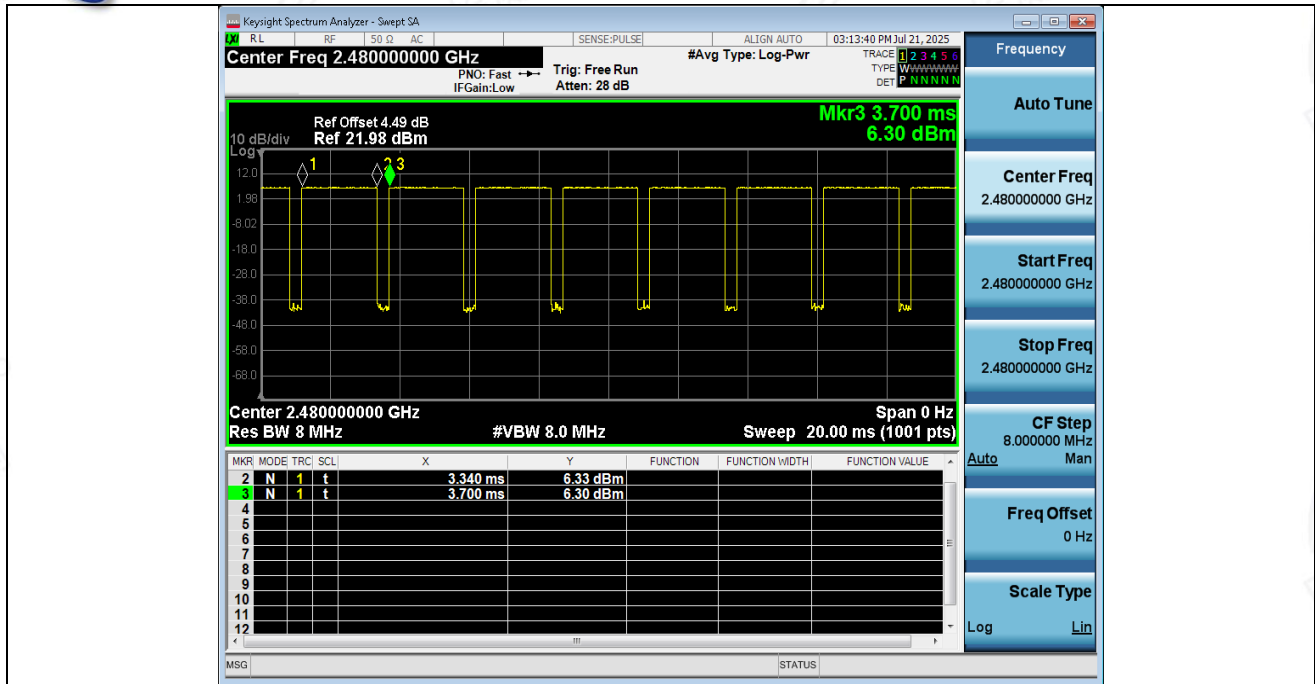


Duty_Cycle_NVNT_ANT1_1Mbps_2440



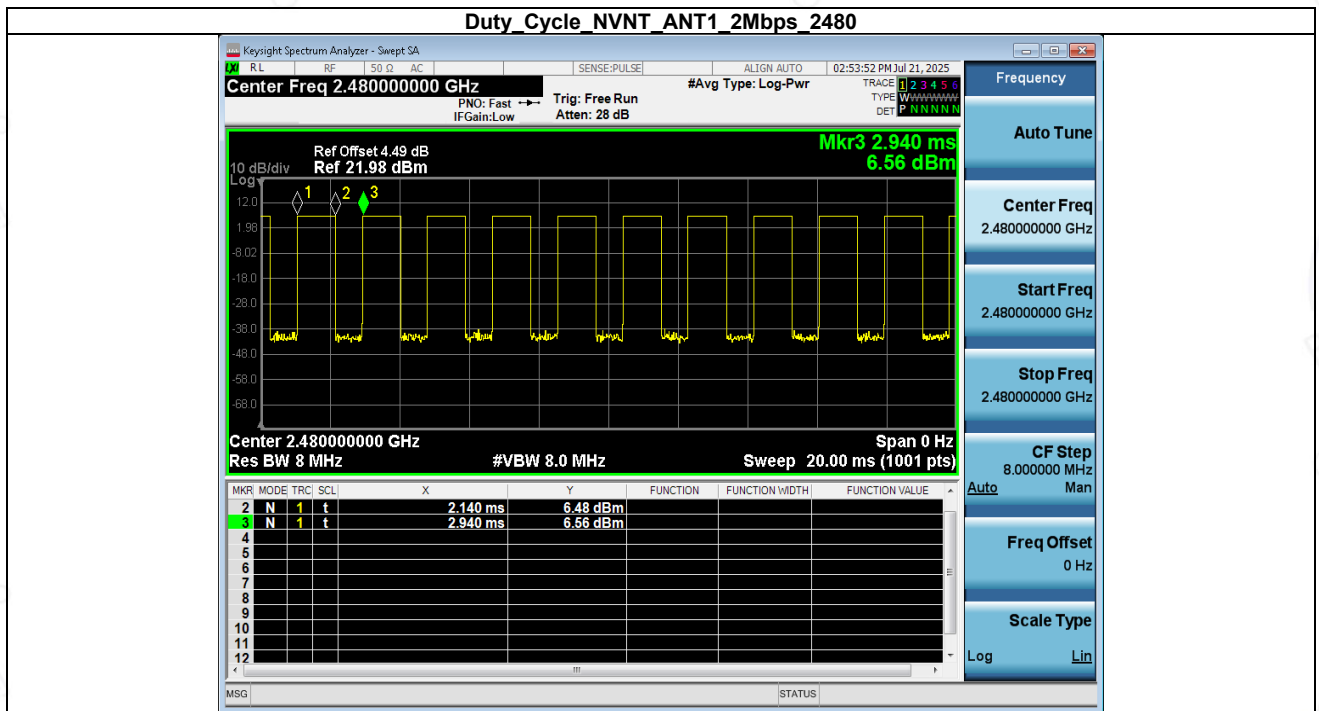
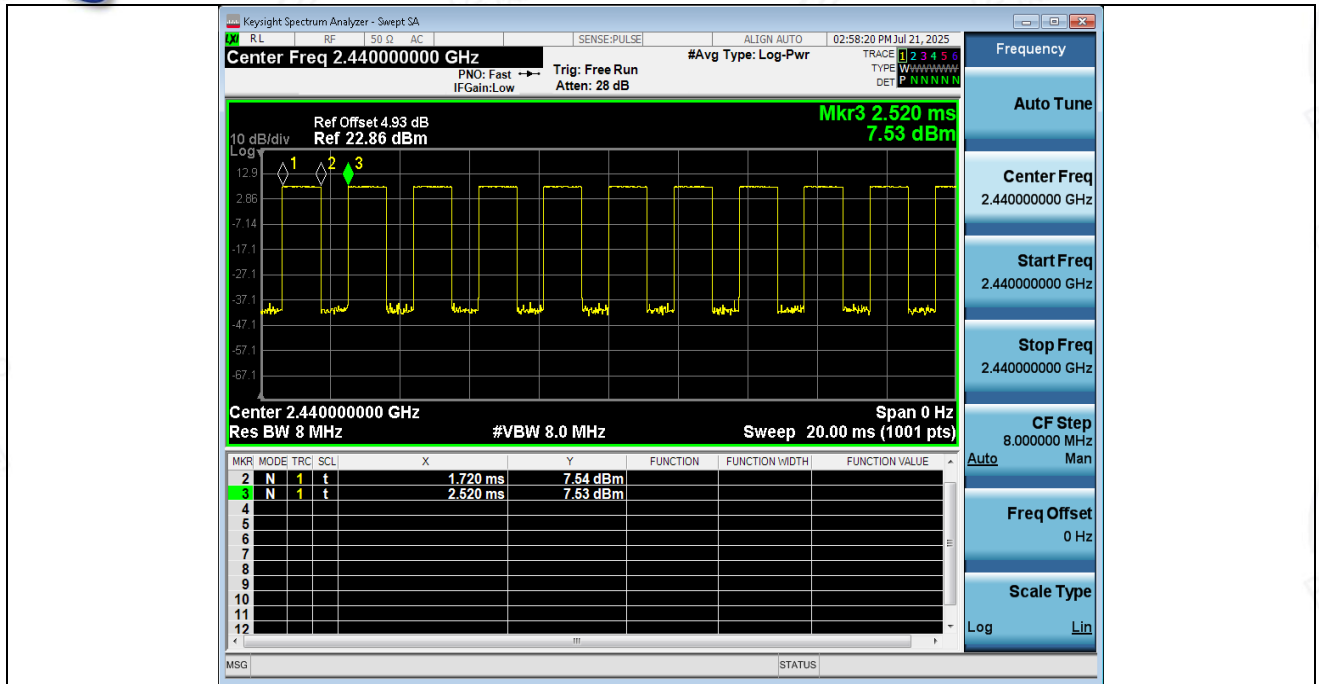
Duty_Cycle_NVNT_ANT1_1Mbps_2480





Duty Cycle_NVNT_ANT1_2Mbps_2440

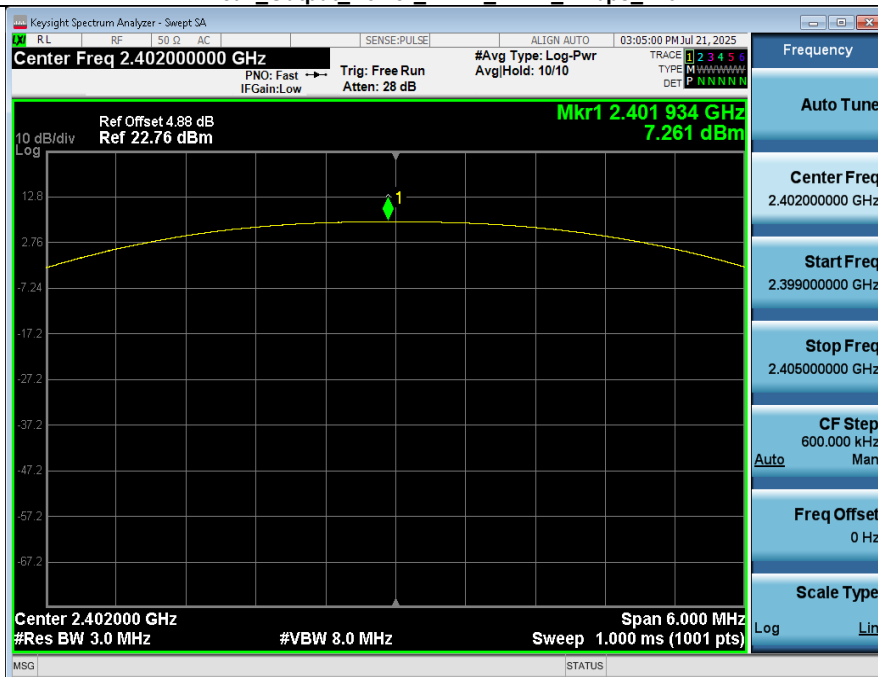




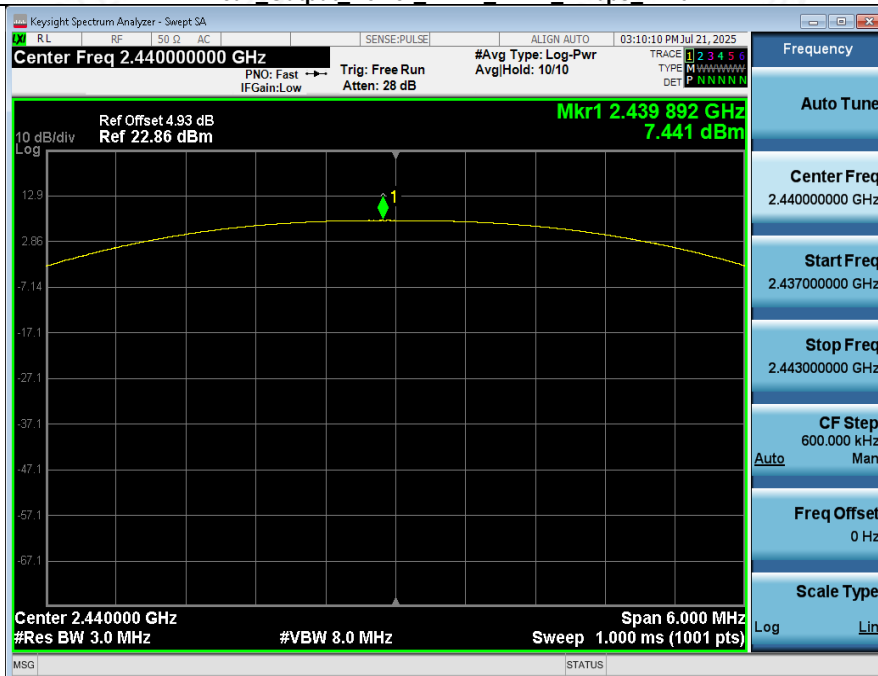
4. Peak Output Power

Condition	Antenna	Rate	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1Mbps	2402.00	7.26	5.32	1000	Pass
NVNT	ANT1	1Mbps	2440.00	7.44	5.55	1000	Pass
NVNT	ANT1	1Mbps	2480.00	6.41	4.38	1000	Pass
NVNT	ANT1	2Mbps	2402.00	7.41	5.51	1000	Pass
NVNT	ANT1	2Mbps	2440.00	7.61	5.76	1000	Pass
NVNT	ANT1	2Mbps	2480.00	6.56	4.53	1000	Pass

Peak_Output_Power_NVNT_ANT1_1Mbps_2402



Peak_Output_Power_NVNT_ANT1_1Mbps_2440

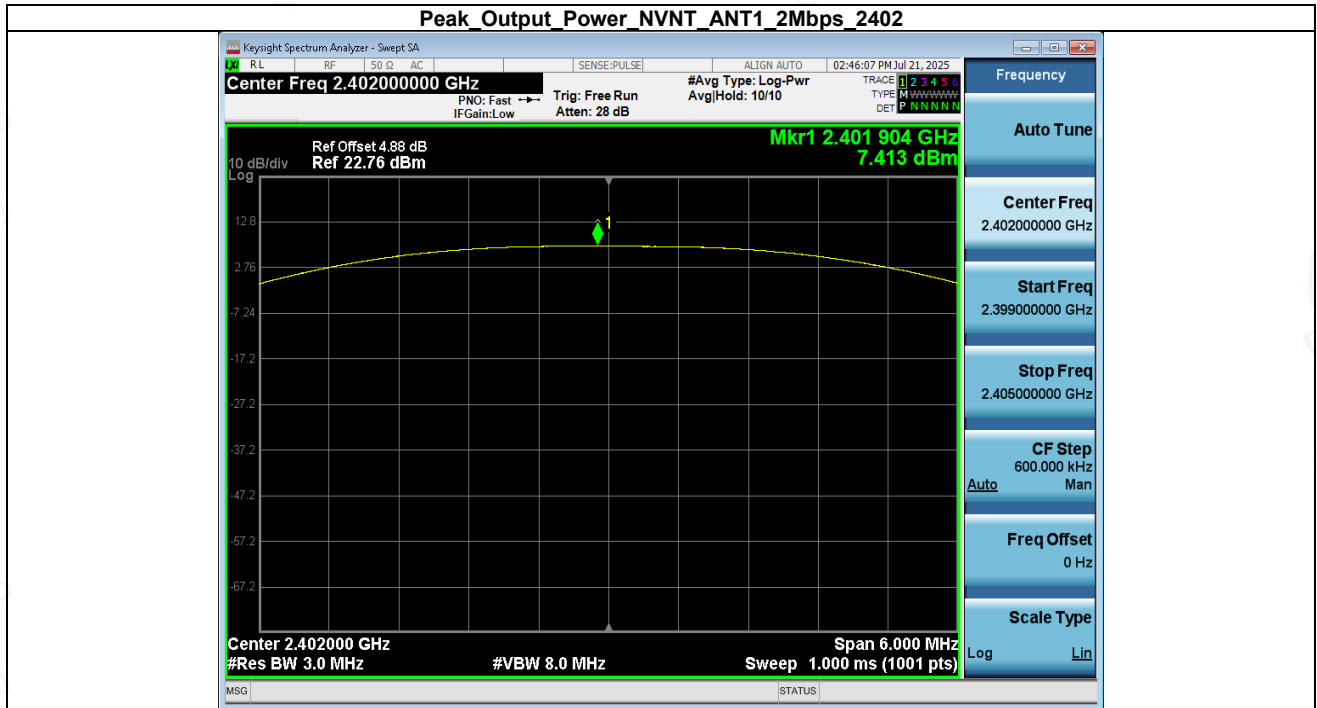


Peak_Output_Power_NVNT_ANT1_1Mbps_2480



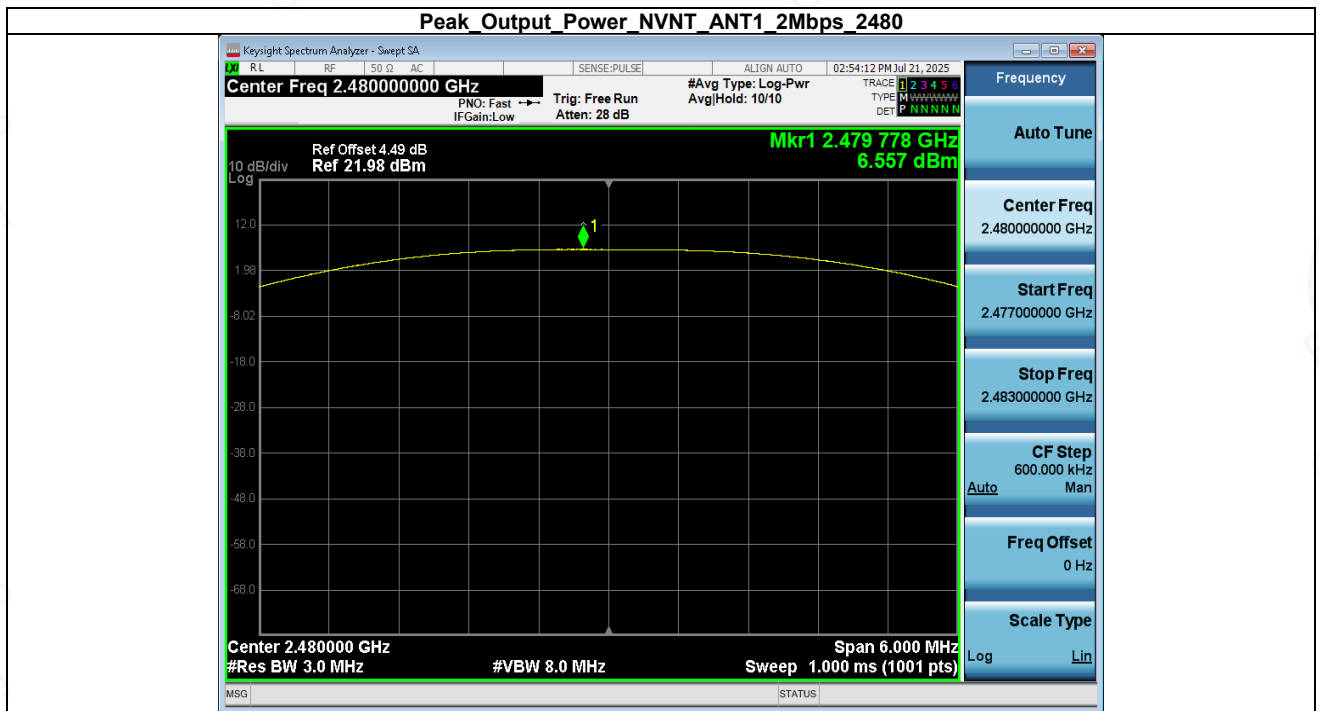


Peak Output Power_NVNT_ANT1_2Mbps_2402



Peak Output Power_NVNT_ANT1_2Mbps_2440





5. Power Spectral Density

Condition	Antenna	Rate	Frequency (MHz)	Power Spectral Density(dBm/3kHz)	Limit(dBm/3kHz)	Result
NVNT	ANT1	1Mbps	2402.00	-8.97	8	Pass
NVNT	ANT1	1Mbps	2440.00	-8.57	8	Pass
NVNT	ANT1	1Mbps	2480.00	-9.66	8	Pass
NVNT	ANT1	2Mbps	2402.00	-10.32	8	Pass
NVNT	ANT1	2Mbps	2440.00	-9.05	8	Pass
NVNT	ANT1	2Mbps	2480.00	-10.38	8	Pass

Power_Spectral_Density_NVNT_ANT1_1Mbps_2402

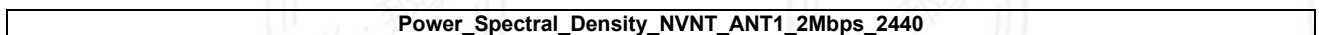
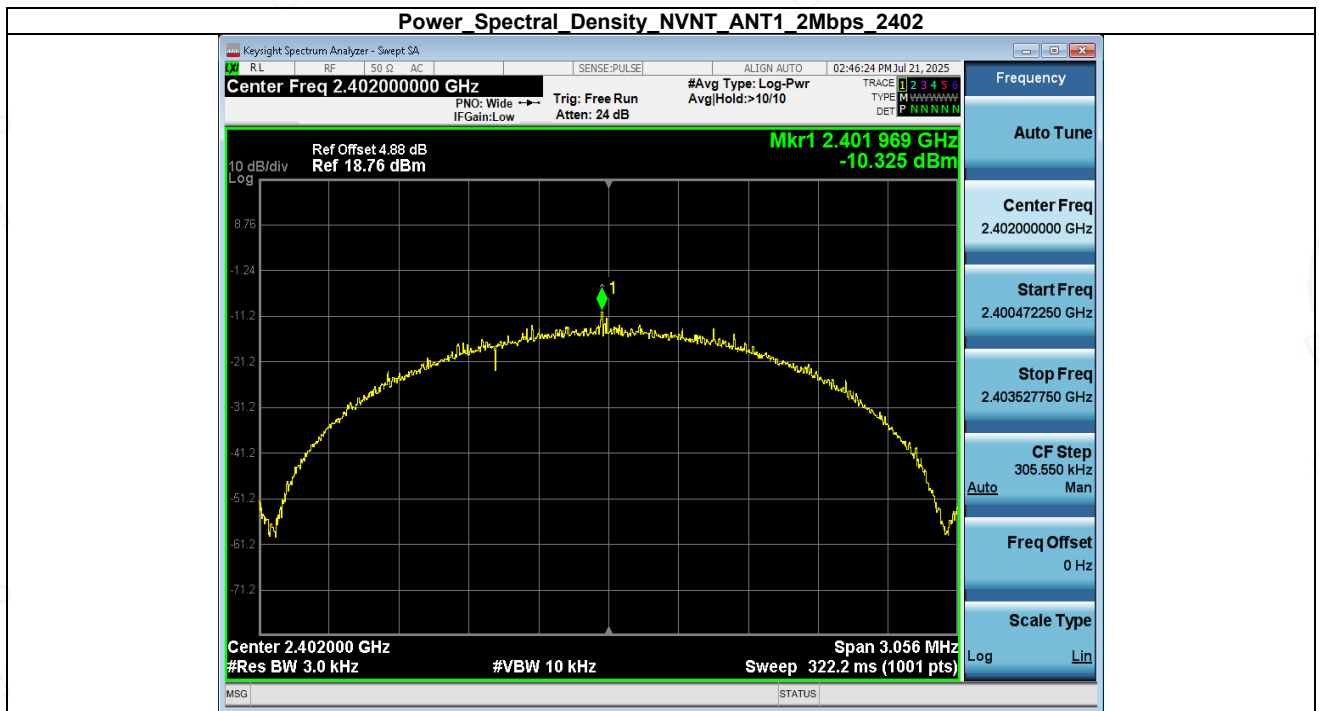


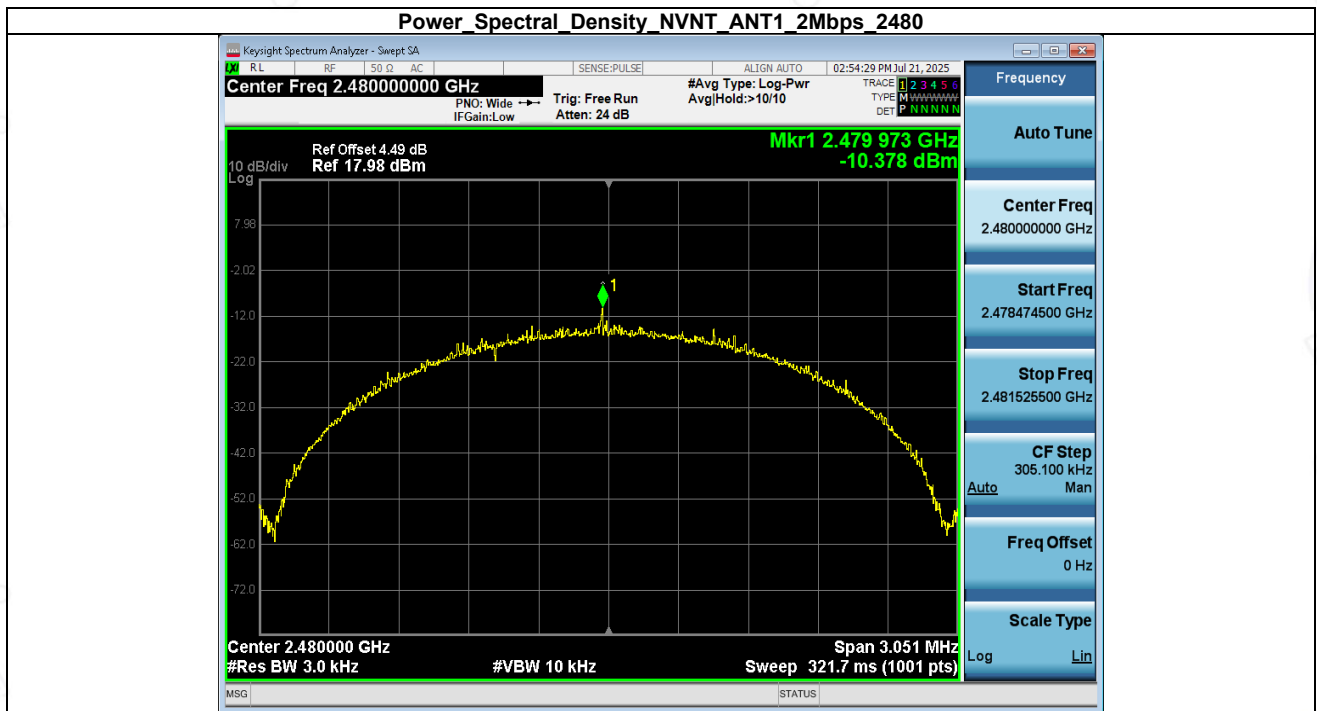
Power_Spectral_Density_NVNT_ANT1_1Mbps_2440



Power_Spectral_Density_NVNT_ANT1_1Mbps_2480



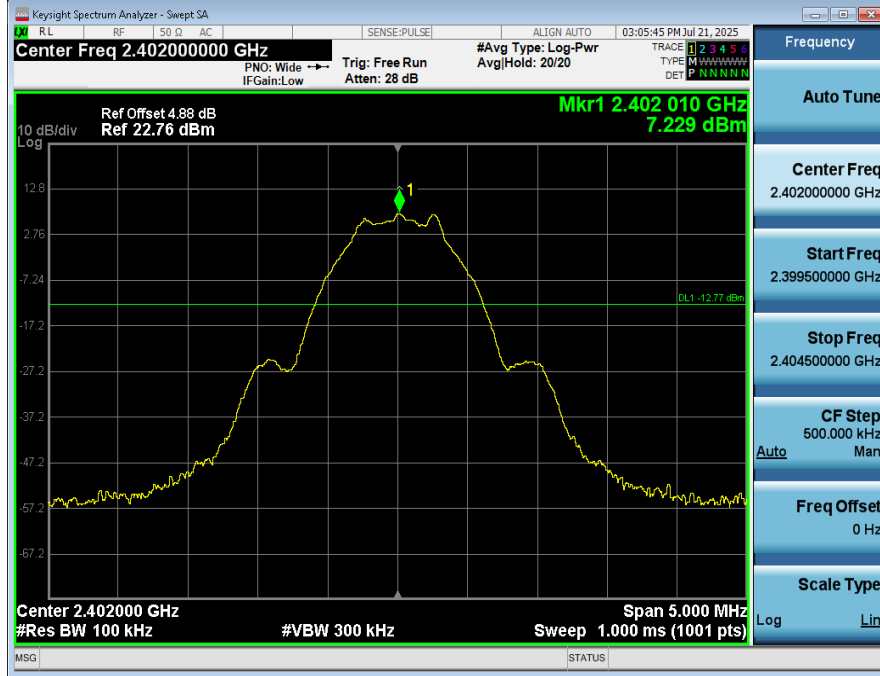




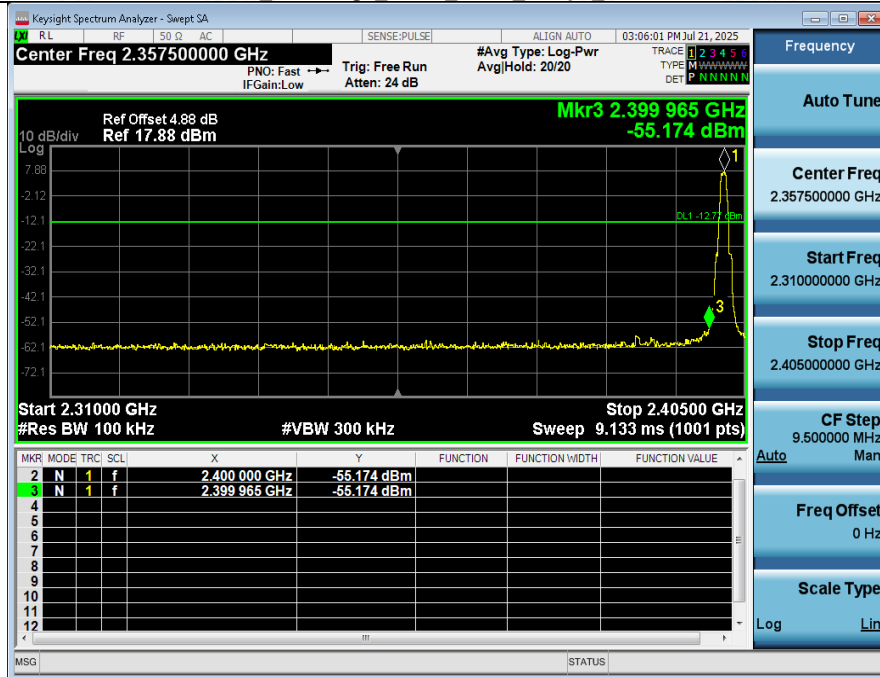
6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	1Mbps	2402.00	2399.965	7.229	-55.174	-12.771	Pass
NVNT	ANT1	1Mbps	2480.00	2484.575	6.292	-54.109	-13.708	Pass
NVNT	ANT1	2Mbps	2402.00	2399.965	7.198	-26.144	-12.802	Pass
NVNT	ANT1	2Mbps	2480.00	2483.750	6.310	-51.524	-13.690	Pass

1 Reference_Level_NVNT_ANT1_1Mbps_2402



2 Bandedge_NVNT_ANT1_1Mbps_2402

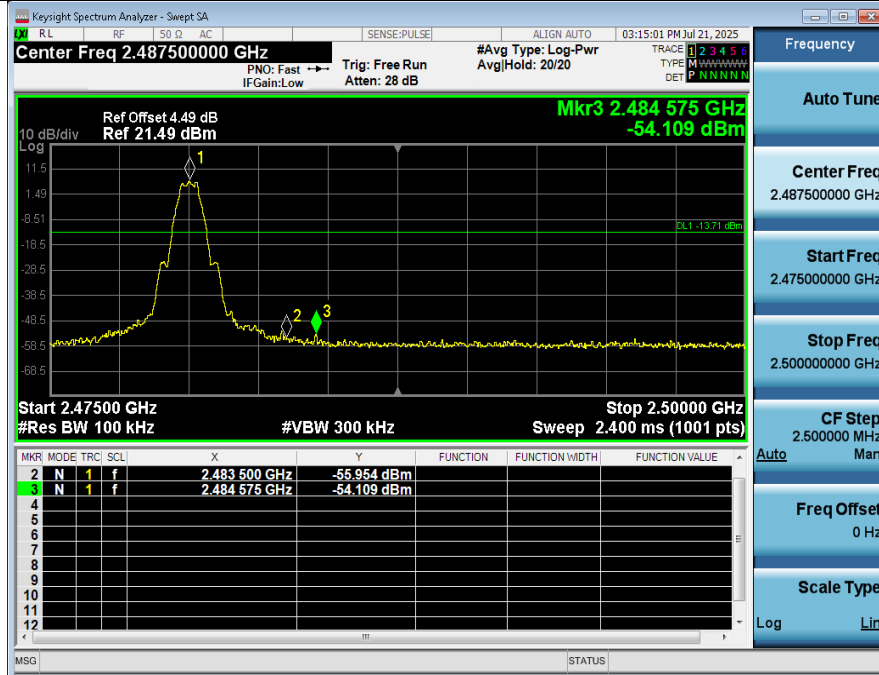


1 Reference_Level_NVNT_ANT1_1Mbps_2480





2_Bandedge_NVNT_ANT1_1Mbps_2480

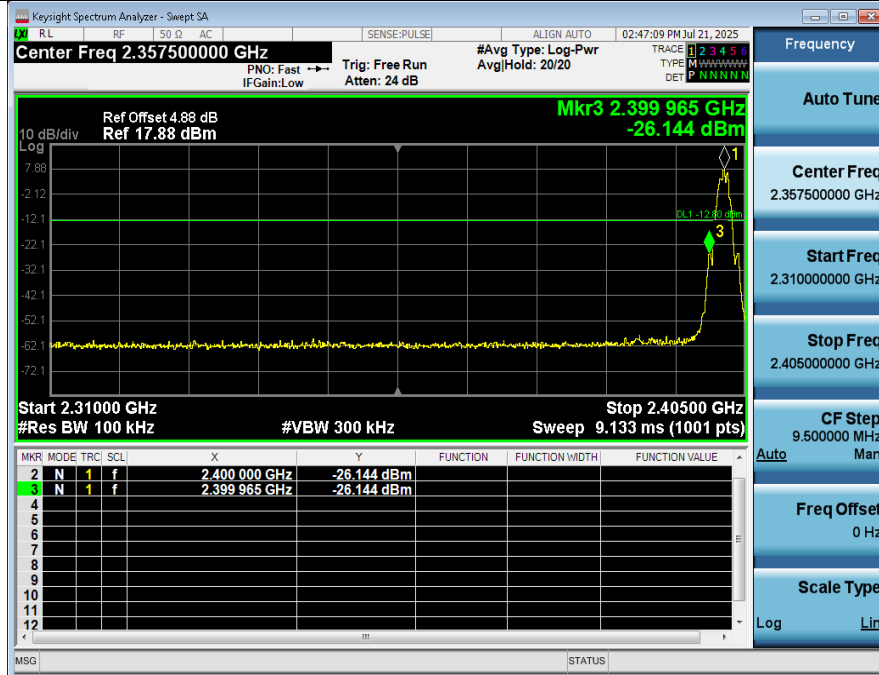


1_Reference_Level_NVNT_ANT1_2Mbps_2402





2_Bandedge_NVNT_ANT1_2Mbps_2402

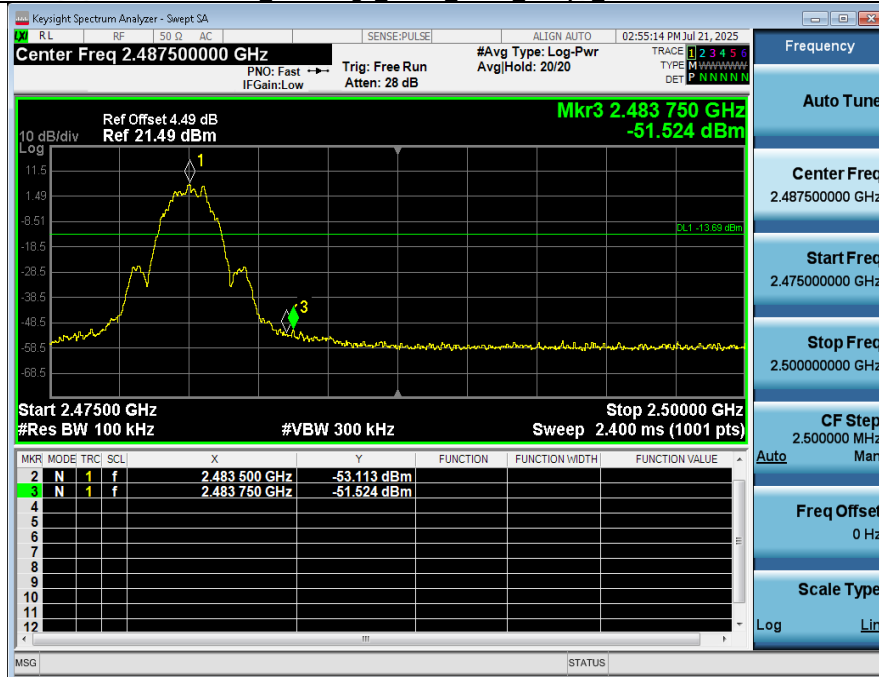


1_Reference_Level_NVNT_ANT1_2Mbps_2480





2_Bandedge_NVNT_ANT1_2Mbps_2480



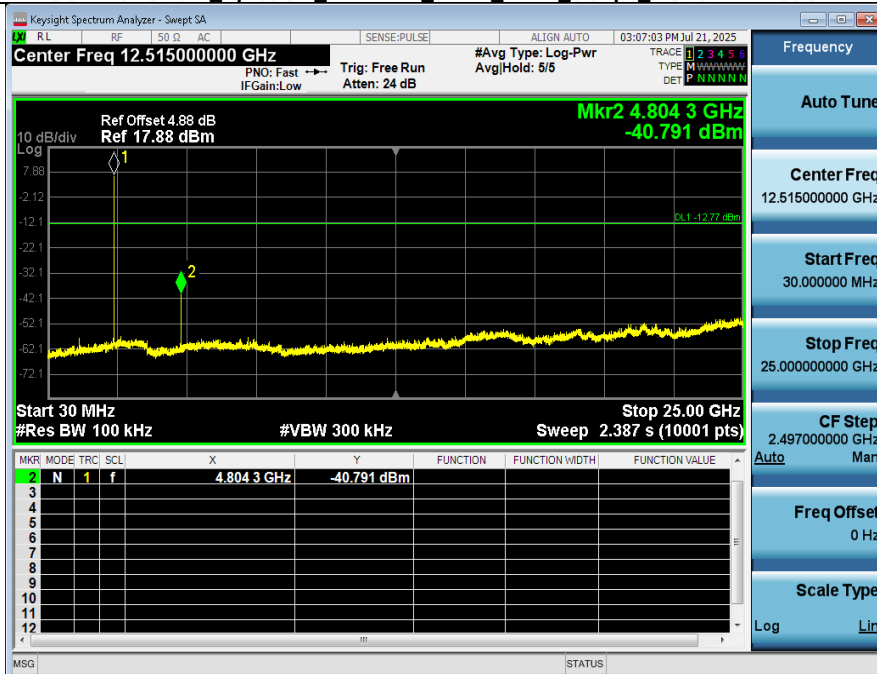
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	1Mbps	2402.00	7.229	-40.791	-12.771	Pass
NVNT	ANT1	1Mbps	2440.00	7.321	-39.910	-12.679	Pass
NVNT	ANT1	1Mbps	2480.00	6.292	-44.146	-13.708	Pass
NVNT	ANT1	2Mbps	2402.00	7.198	-41.244	-12.802	Pass
NVNT	ANT1	2Mbps	2440.00	7.394	-42.817	-12.606	Pass
NVNT	ANT1	2Mbps	2480.00	6.310	-44.112	-13.690	Pass

1_Reference_Level_NVNT_ANT1_1Mbps_2402

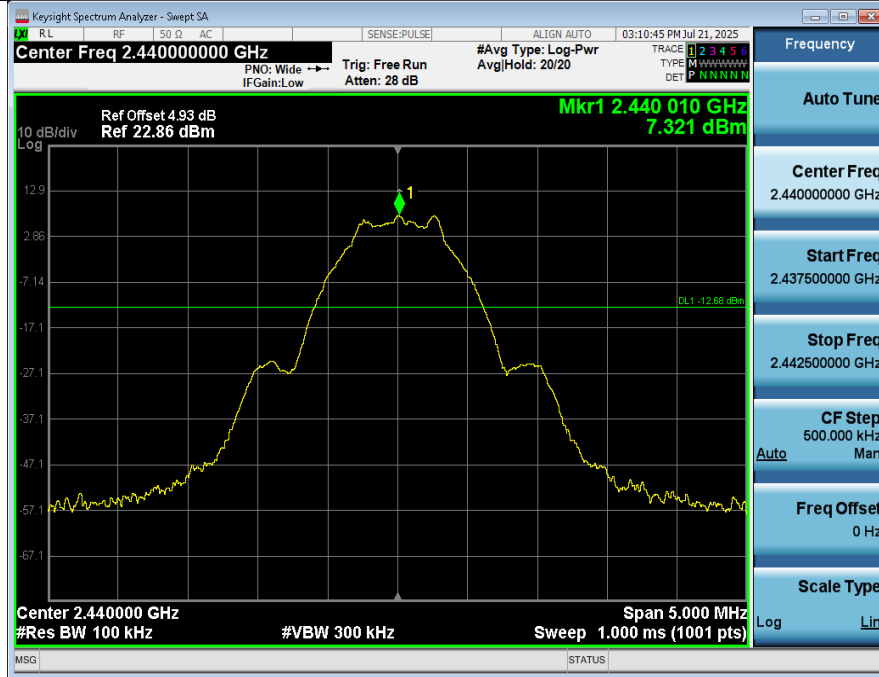


2_Spurious Emission_NVNT_ANT1_1Mbps_2402

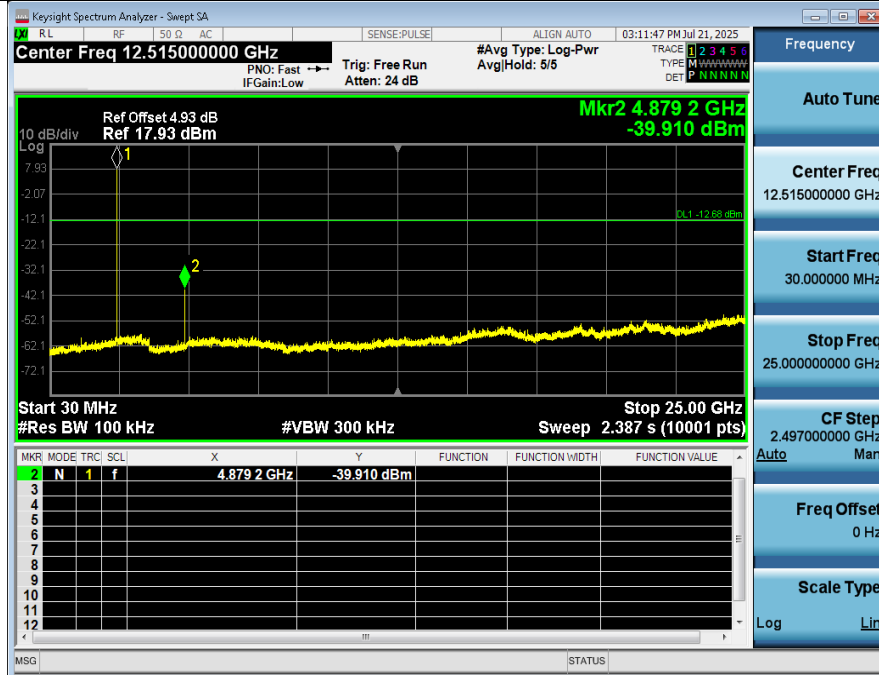


1_Reference_Level_NVNT_ANT1_1Mbps_2440



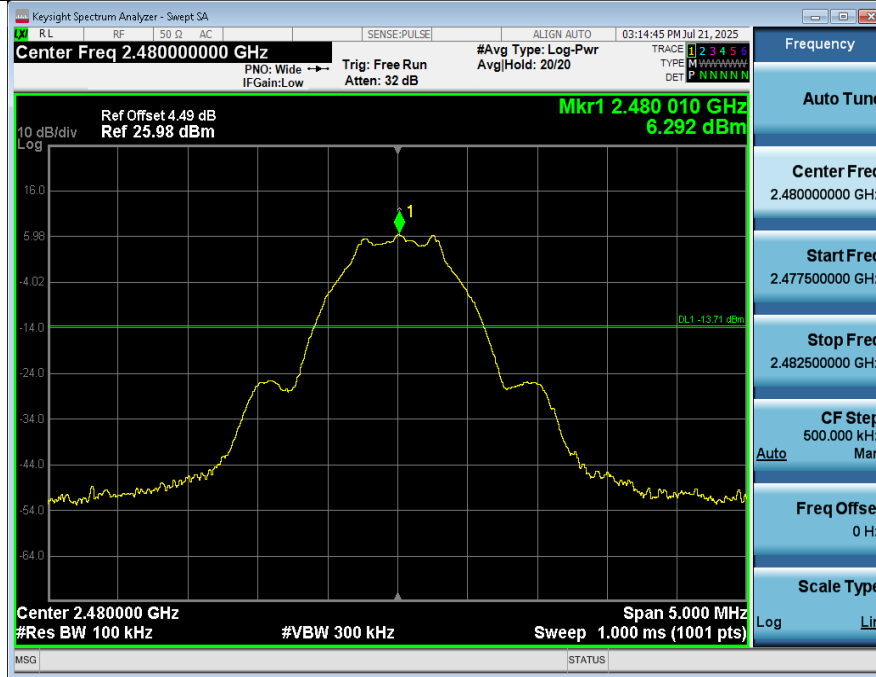


2 Spurious Emission NVNT_ANT1_1Mbps_2440

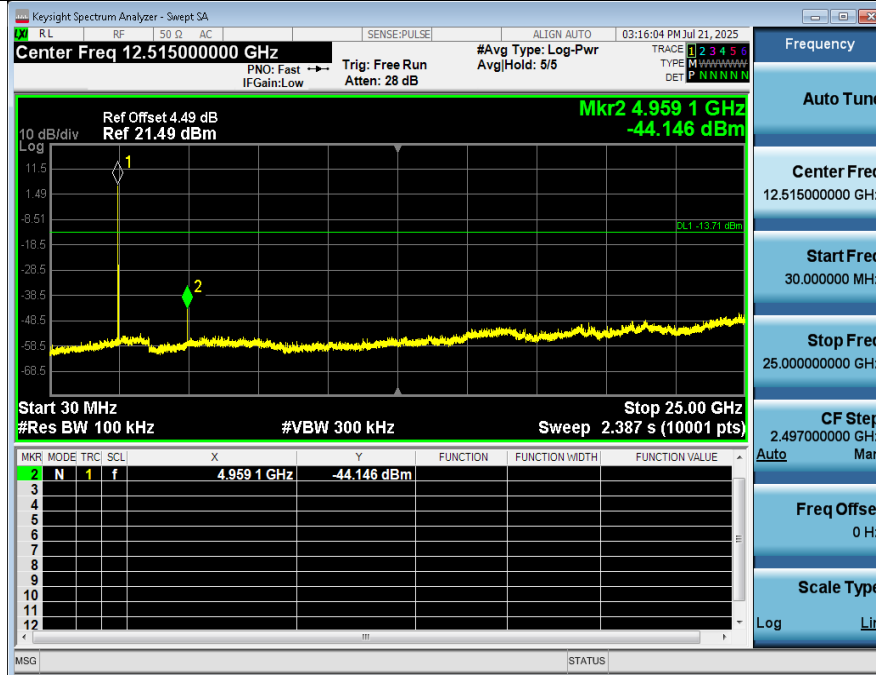


1 Reference_Level_NVNT_ANT1_1Mbps_2480





2_Spurious_Emission_NVNT_ANT1_1Mbps_2480

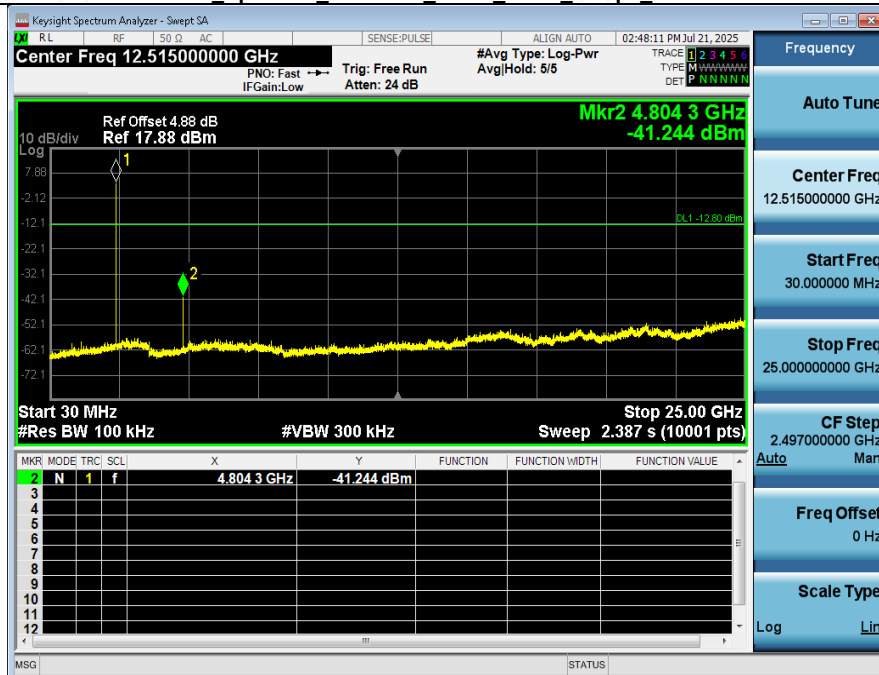


1_Reference_Level_NVNT_ANT1_2Mbps_2402





2_Spurious_Emission_NVNT_ANT1_2Mbps_2402

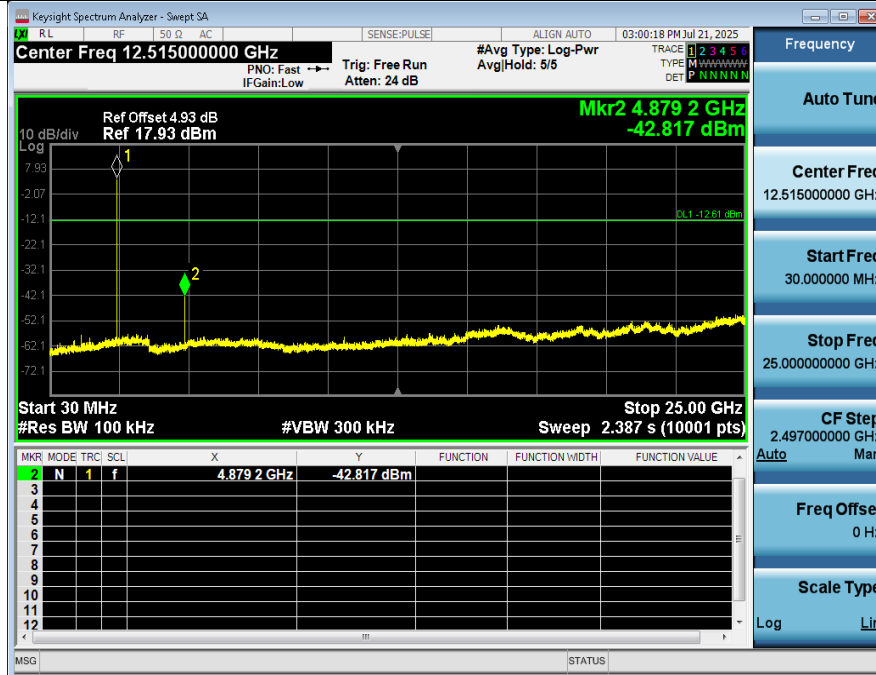


1_Reference_Level_NVNT_ANT1_2Mbps_2440





2 Spurious Emission NVNT_ANT1_2Mbps_2440



1 Reference_Level_NVNT_ANT1_2Mbps_2480





2_Spurious_Emission_NVNT_ANT1_2Mbps_2480

