Appendix

1. -6dB Bandwidth

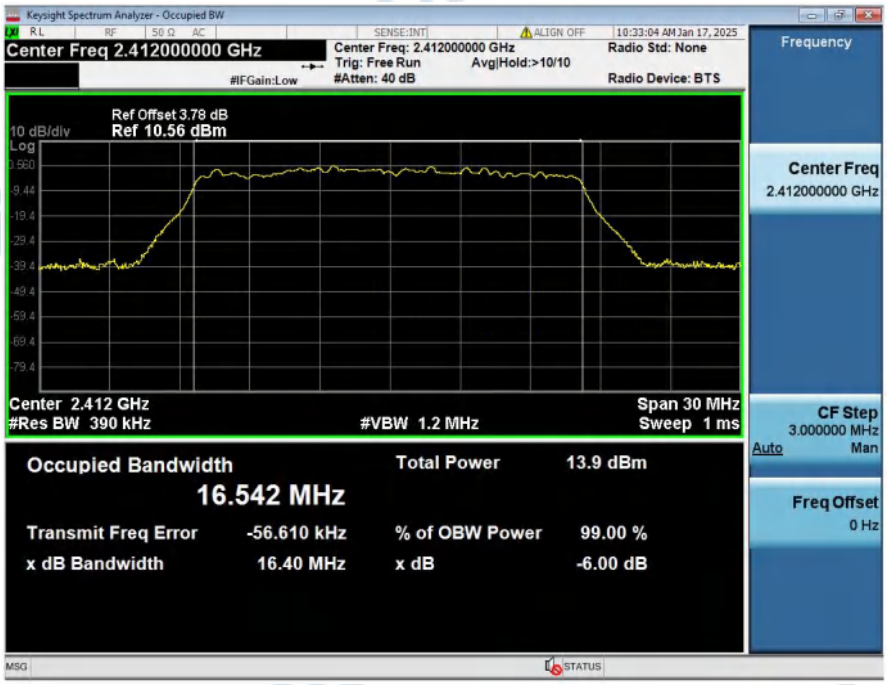
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.11	500	Pass
NVNT	ANT1	802.11b	2437.00	9.14	500	Pass
NVNT	ANT1	802.11b	2462.00	9.09	500	Pass
NVNT	ANT1	802.11g	2412.00	16.40	500	Pass
NVNT	ANT1	802.11g	2437.00	16.40	500	Pass
NVNT	ANT1	802.11g	2462.00	16.37	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.37	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.35	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.22	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	36.17	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	36.14	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	36.14	500	Pass

-6dB_Bandwidth_NVNT_ANT1_802_11b_2412

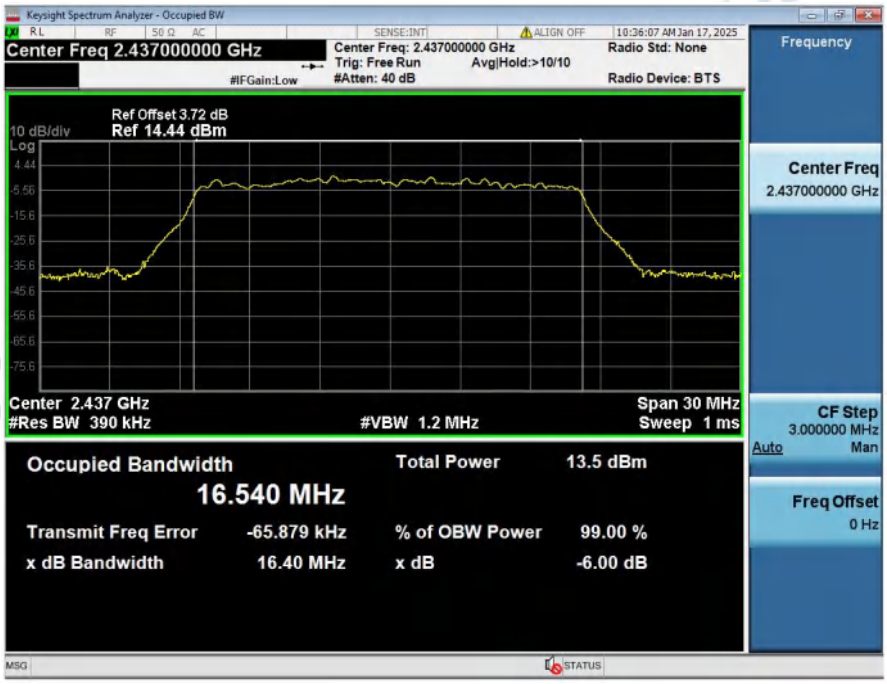
-6dB_Bandwidth_NVNT_ANT1_802_11b_2437

-6dB_Bandwidth_NVNT_ANT1_802_11b_2462

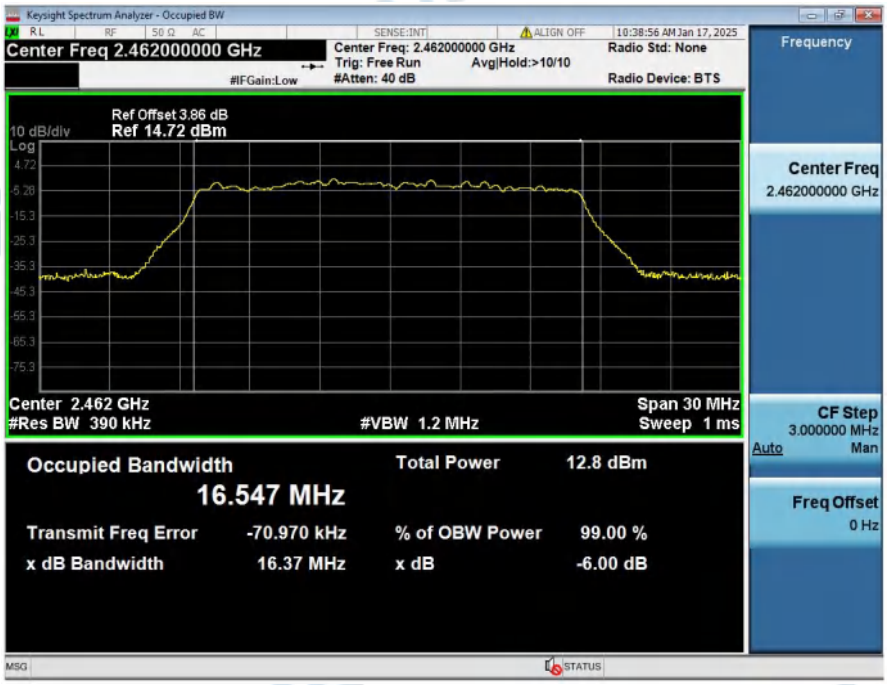
-6dB_Bandwidth_NVNT_ANT1_802_11g_2412



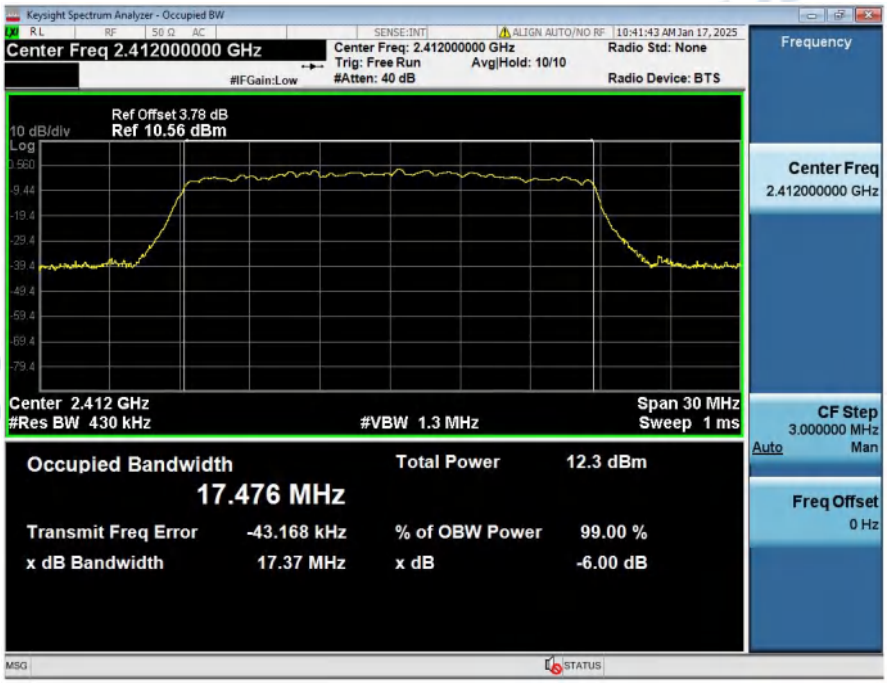
-6dB_Bandwidth_NVNT_ANT1_802_11g_2437



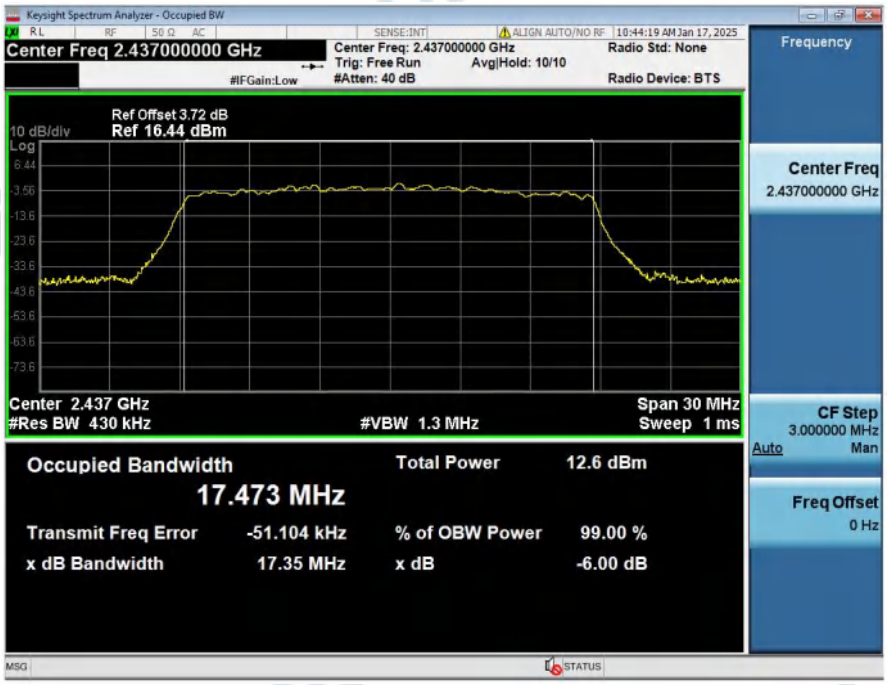
-6dB_Bandwidth_NVNT_ANT1_802_11g_2462



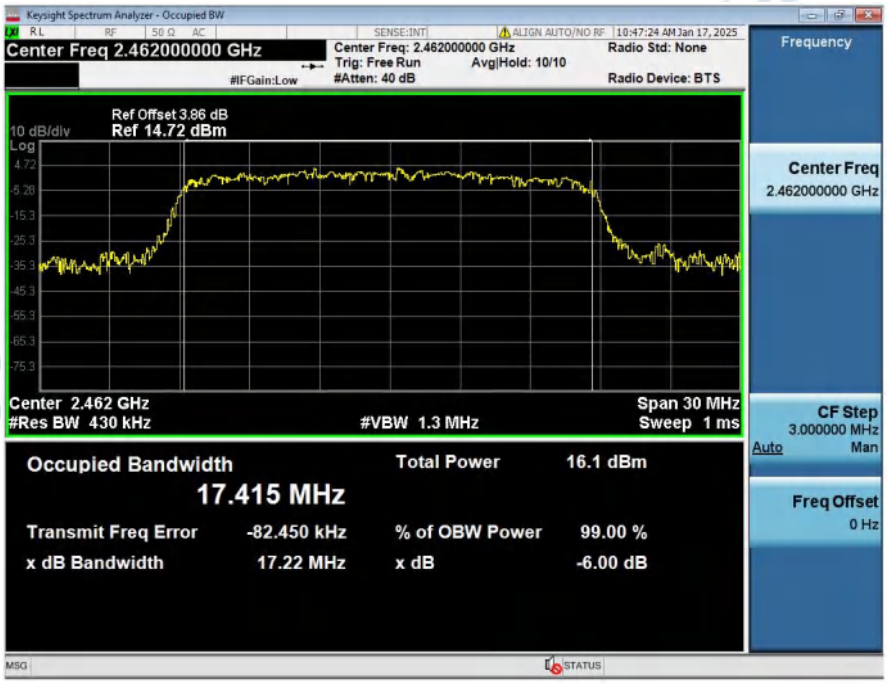
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



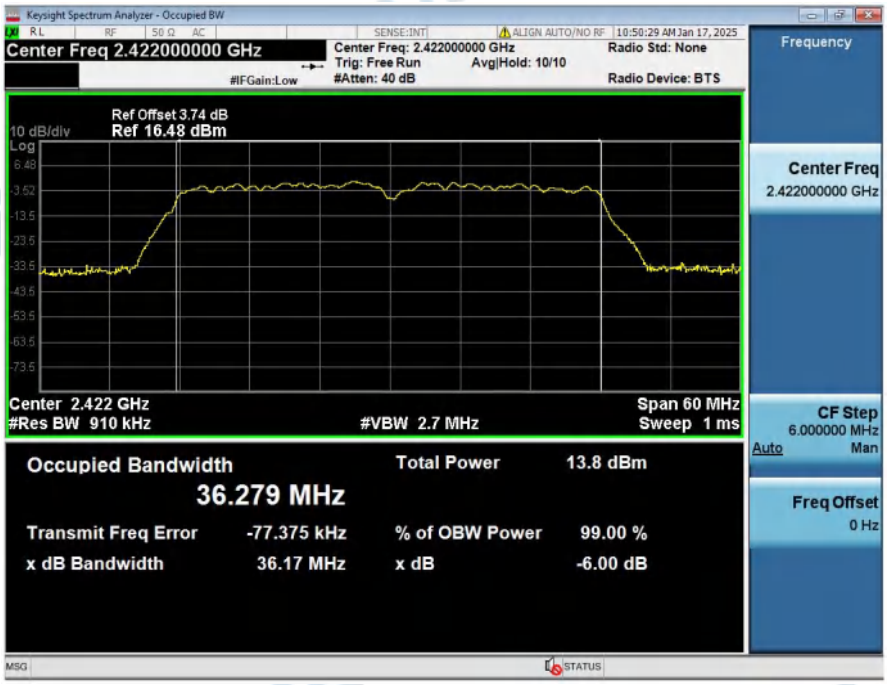
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



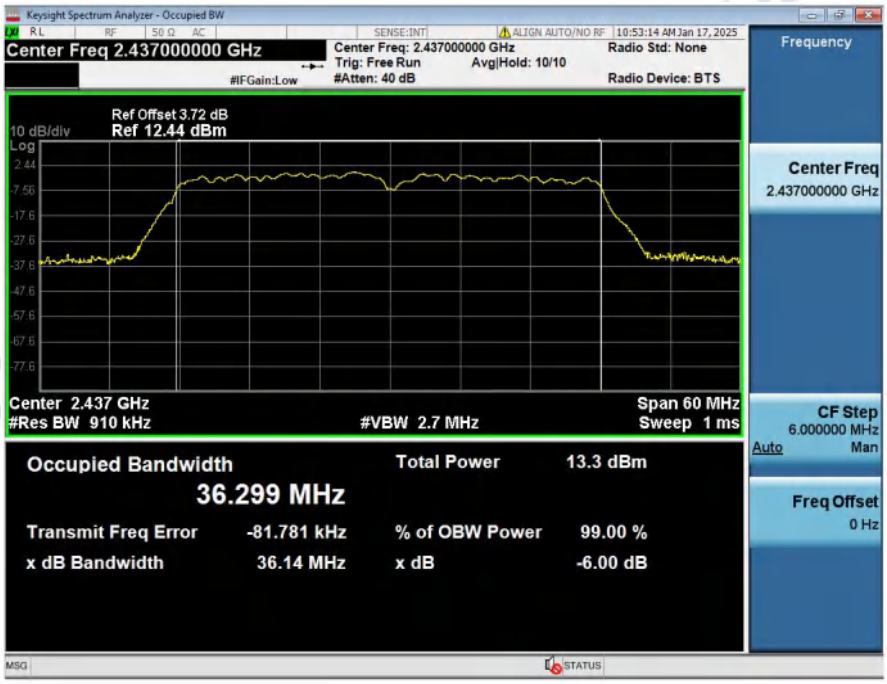
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



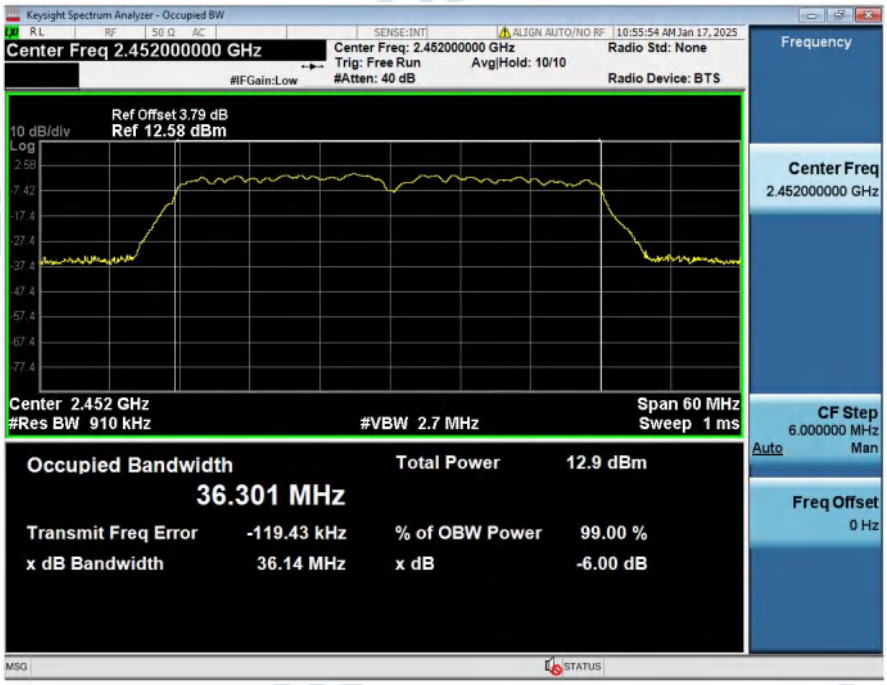
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



2. 99% Occupied Bandwidth

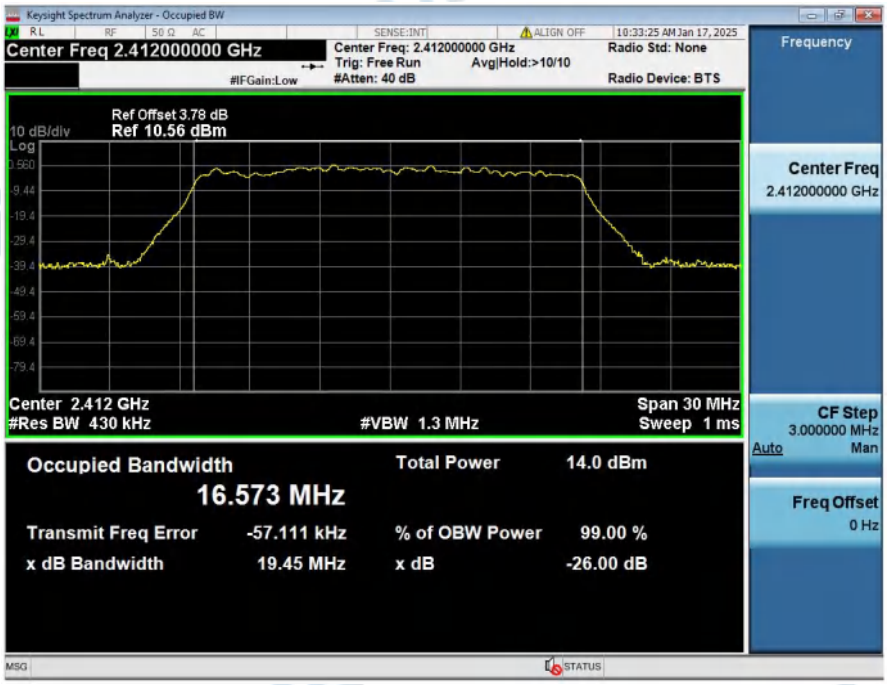
Condition	Antenna	Modulation	Frequency (MHz)	99%%BW(MHz)
NVNT	ANT1	802.11b	2412.00	14.107
NVNT	ANT1	802.11b	2437.00	14.099
NVNT	ANT1	802.11b	2462.00	14.079
NVNT	ANT1	802.11g	2412.00	16.573
NVNT	ANT1	802.11g	2437.00	16.577
NVNT	ANT1	802.11g	2462.00	16.611
NVNT	ANT1	802.11n(HT20)	2412.00	17.498
NVNT	ANT1	802.11n(HT20)	2437.00	17.492
NVNT	ANT1	802.11n(HT20)	2462.00	17.500
NVNT	ANT1	802.11n(HT40)	2422.00	36.299
NVNT	ANT1	802.11n(HT40)	2437.00	36.287
NVNT	ANT1	802.11n(HT40)	2452.00	36.298

99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2412

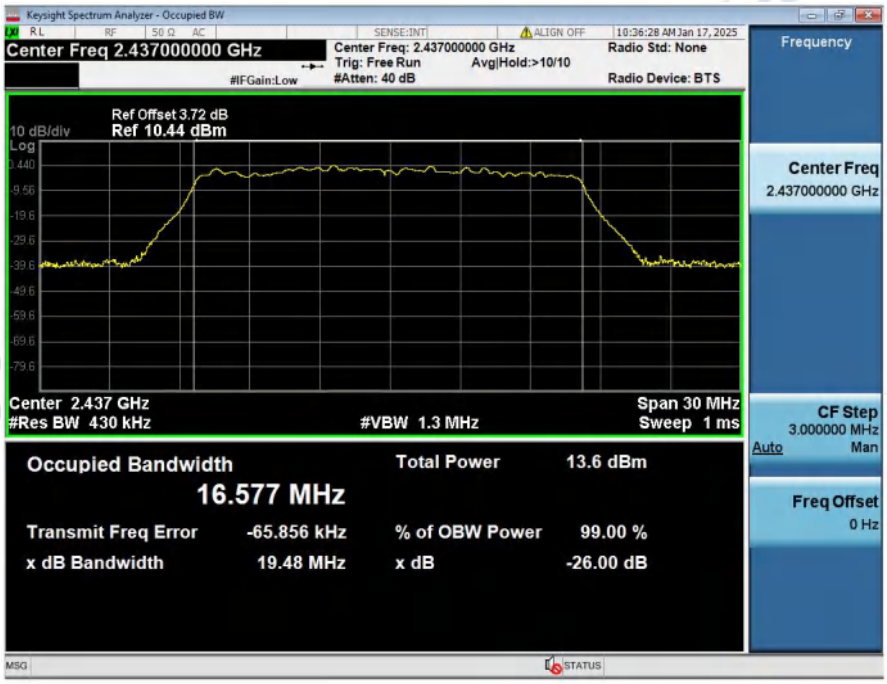
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2437

99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2462

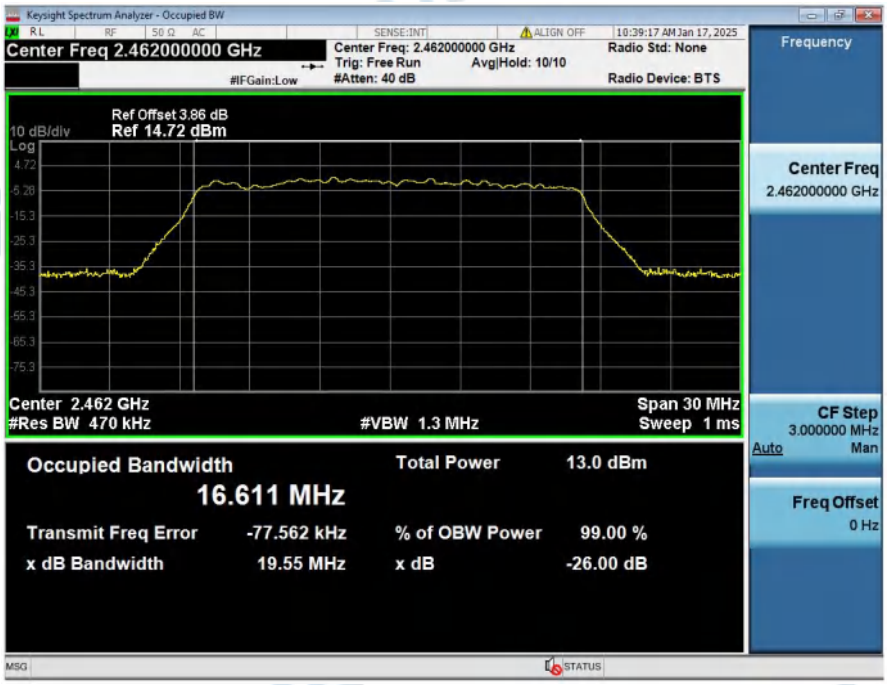
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2412



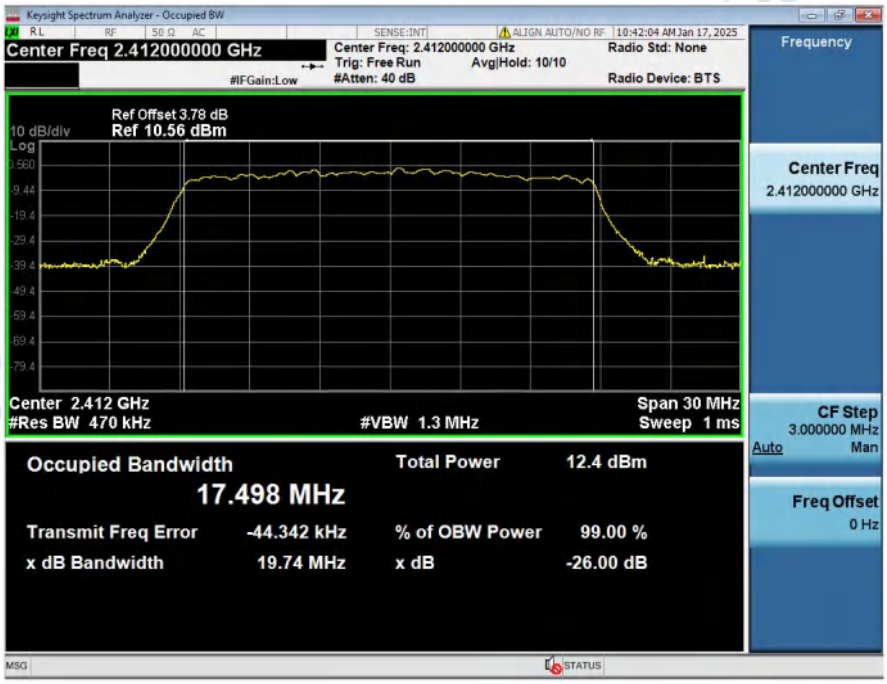
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2437



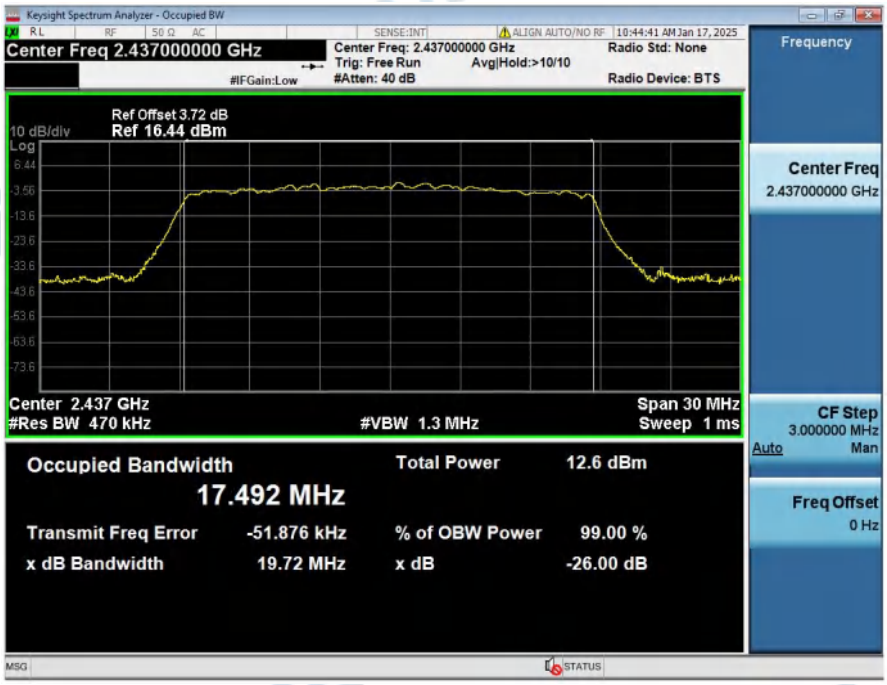
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2462



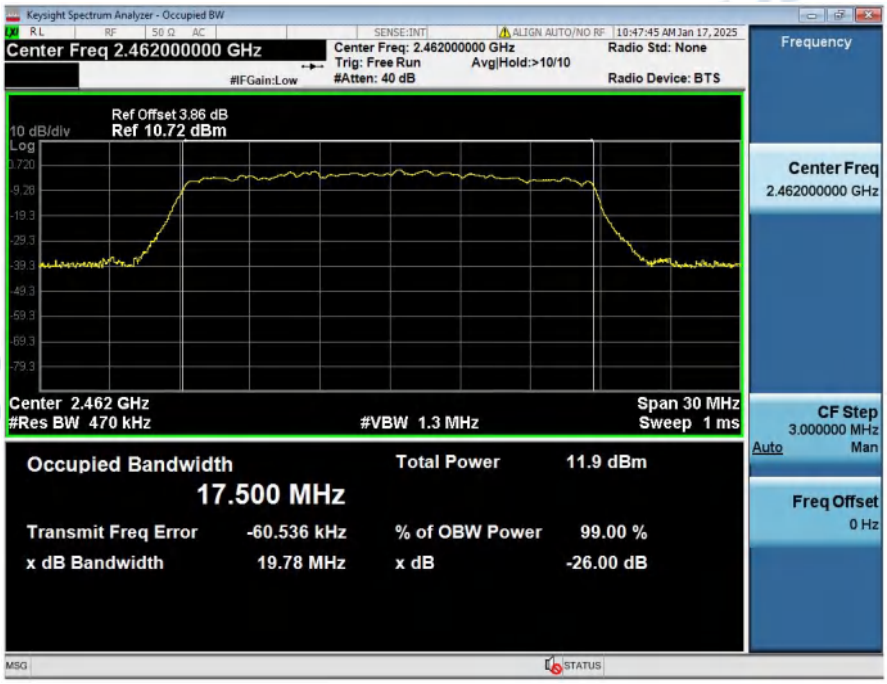
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



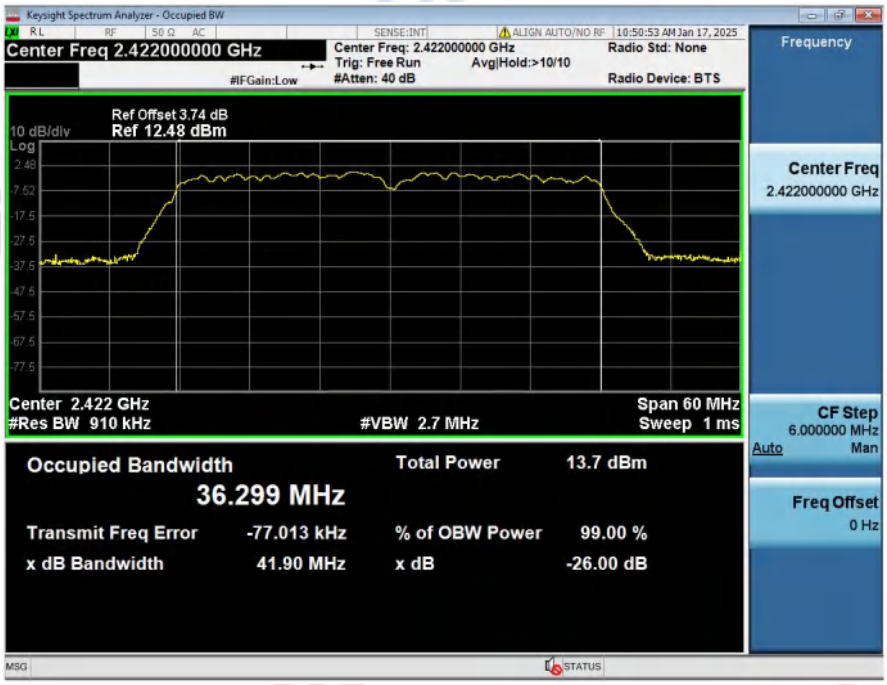
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462

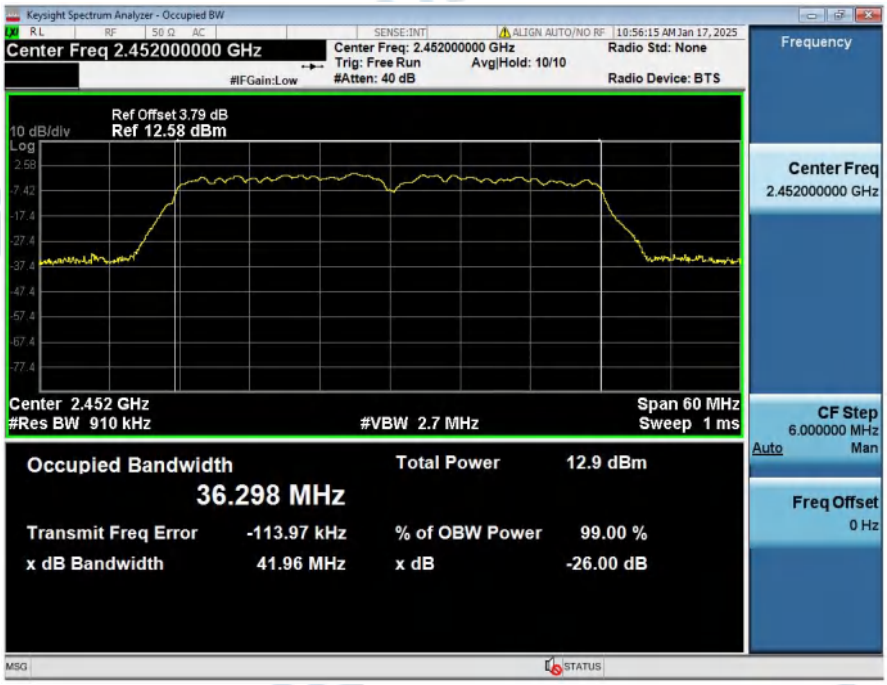


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437

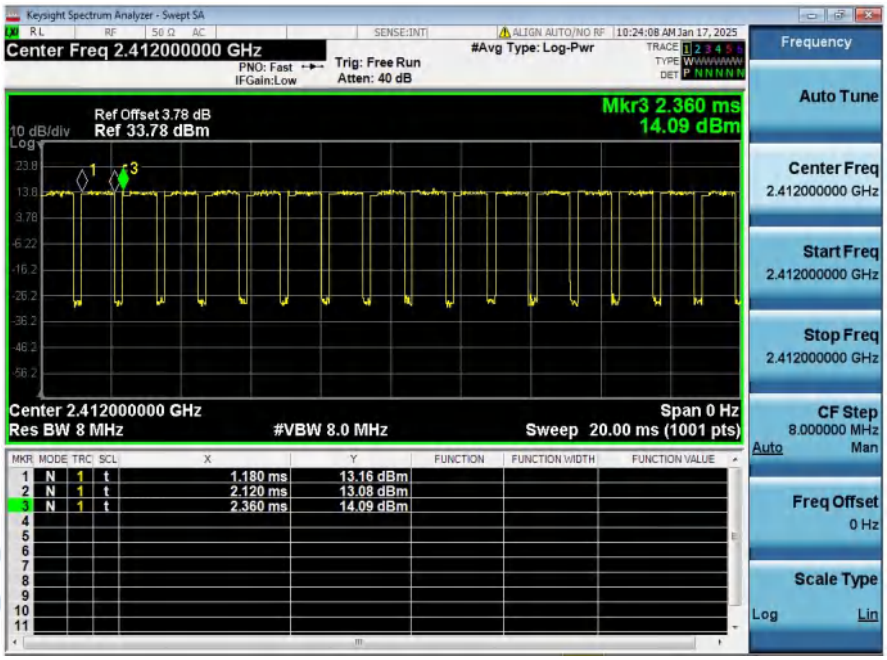
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



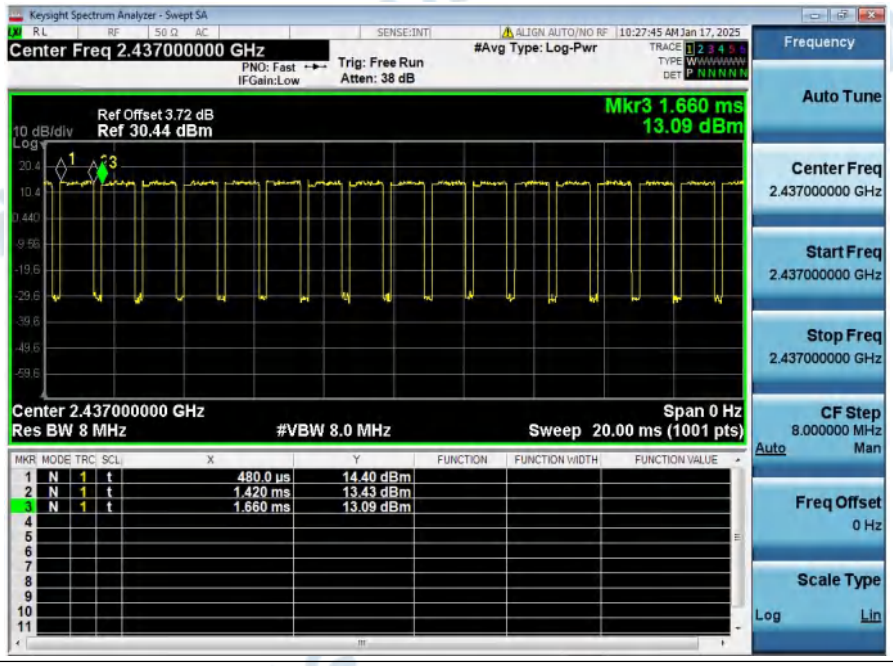
3. Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	81.36	0.90
NVNT	ANT1	802.11b	2437.00	81.36	0.90
NVNT	ANT1	802.11b	2462.00	81.36	0.90
NVNT	ANT1	802.11g	2412.00	47.62	3.22
NVNT	ANT1	802.11g	2437.00	42.86	3.68
NVNT	ANT1	802.11g	2462.00	47.62	3.22
NVNT	ANT1	802.11n(HT20)	2412.00	26.67	5.74
NVNT	ANT1	802.11n(HT20)	2437.00	26.67	5.74
NVNT	ANT1	802.11n(HT20)	2462.00	13.33	8.75
NVNT	ANT1	802.11n(HT40)	2422.00	33.33	4.77
NVNT	ANT1	802.11n(HT40)	2437.00	22.22	6.53
NVNT	ANT1	802.11n(HT40)	2452.00	37.50	4.26

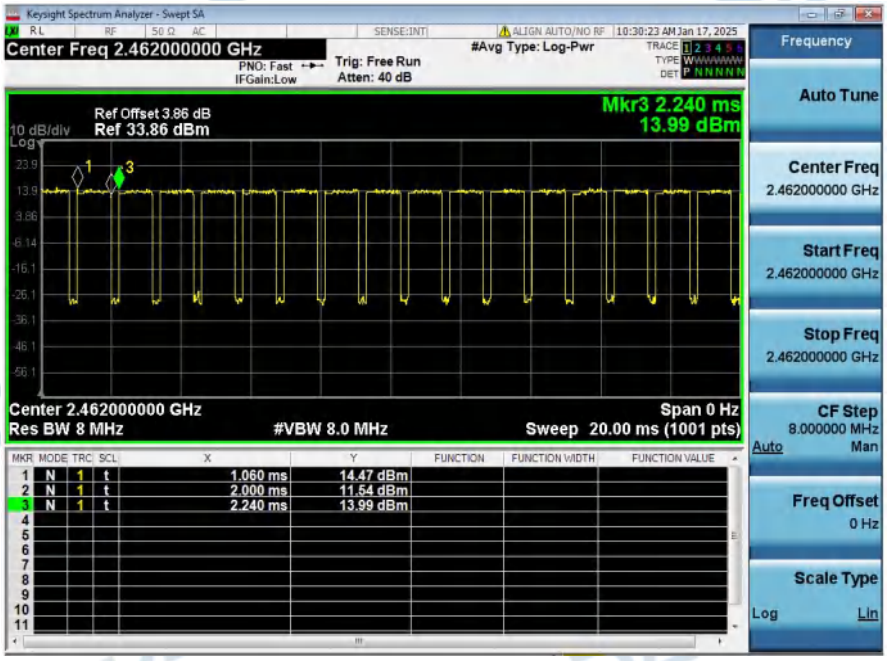
Duty_Cycle_NVNT_ANT1_802_11b_2412



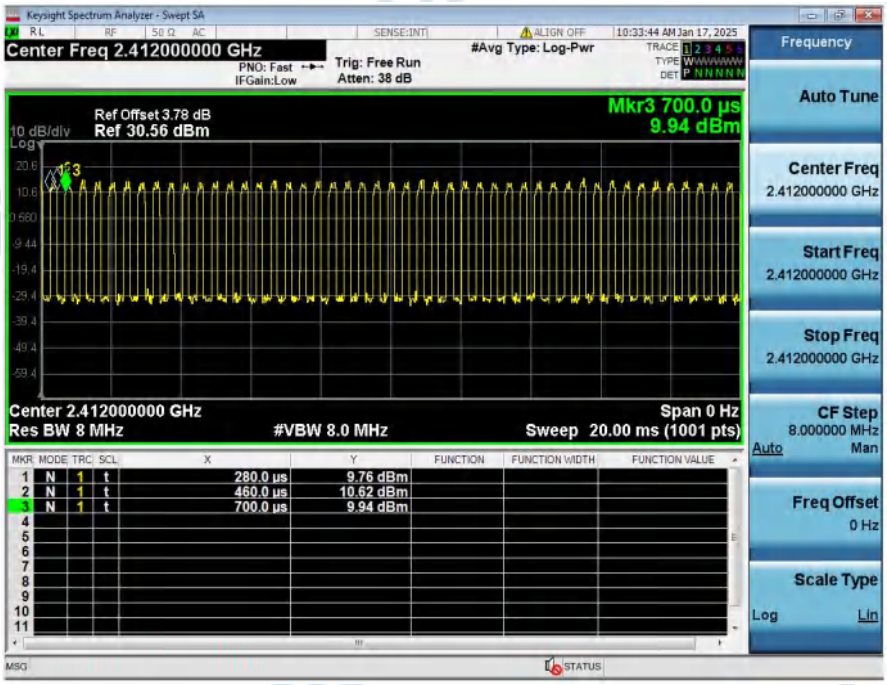
Duty_Cycle_NVNT_ANT1_802_11b_2437



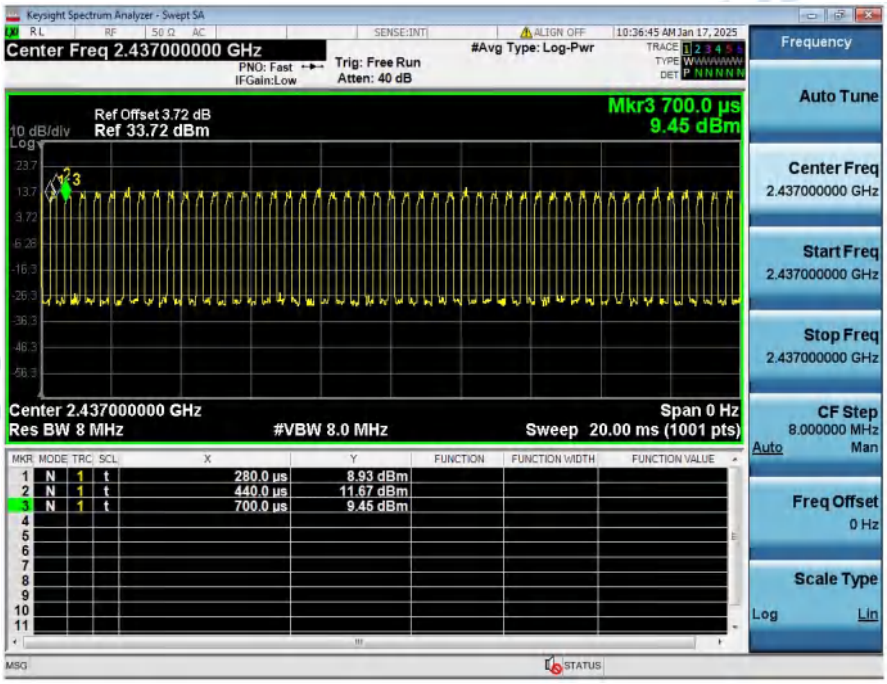
Duty_Cycle_NVNT_ANT1_802_11b_2462



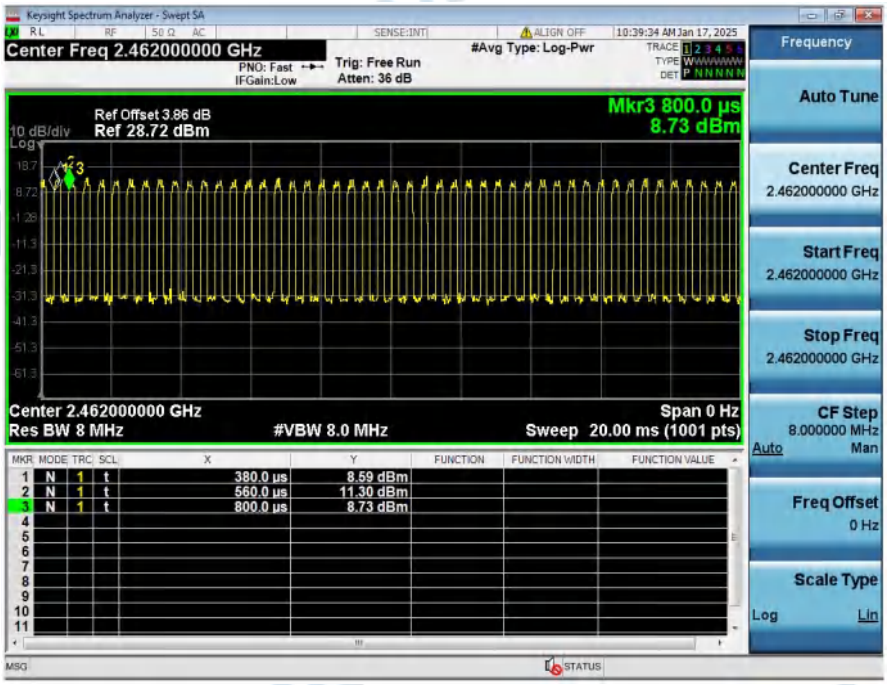
Duty_Cycle_NVNT_ANT1_802_11g_2412



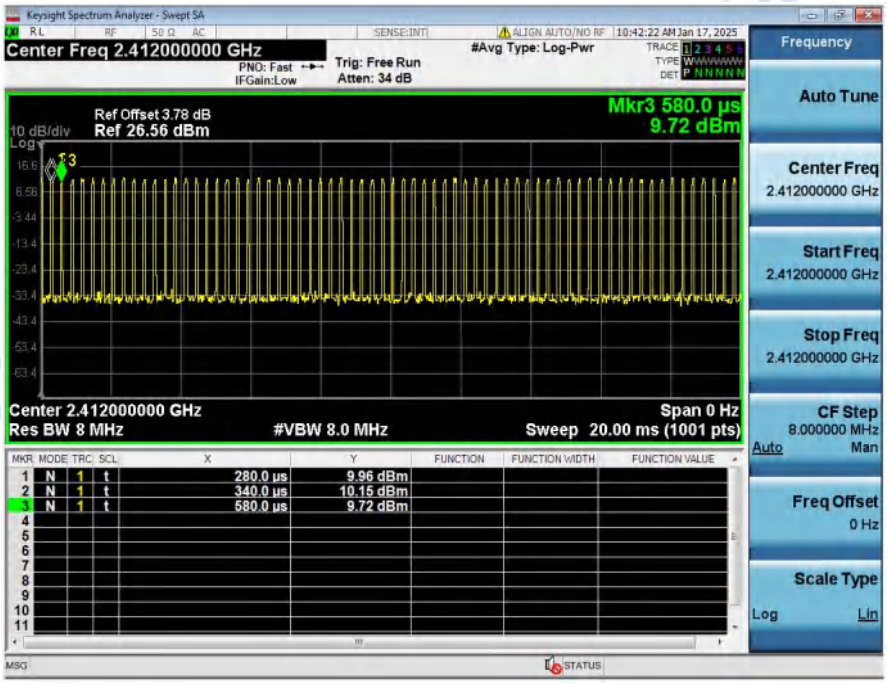
Duty_Cycle_NVNT_ANT1_802_11g_2437



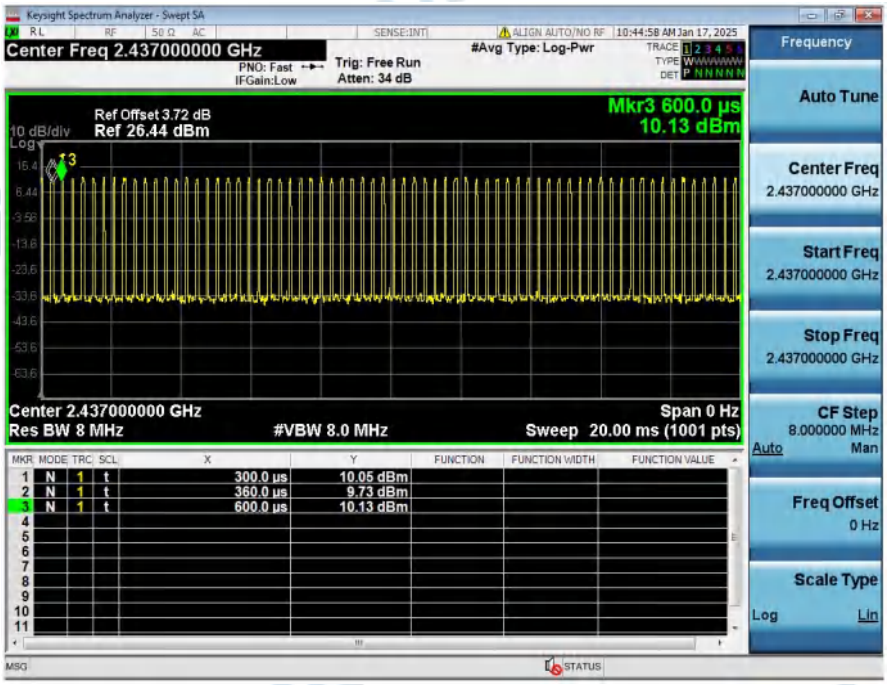
Duty_Cycle_NVNT_ANT1_802_11g_2462



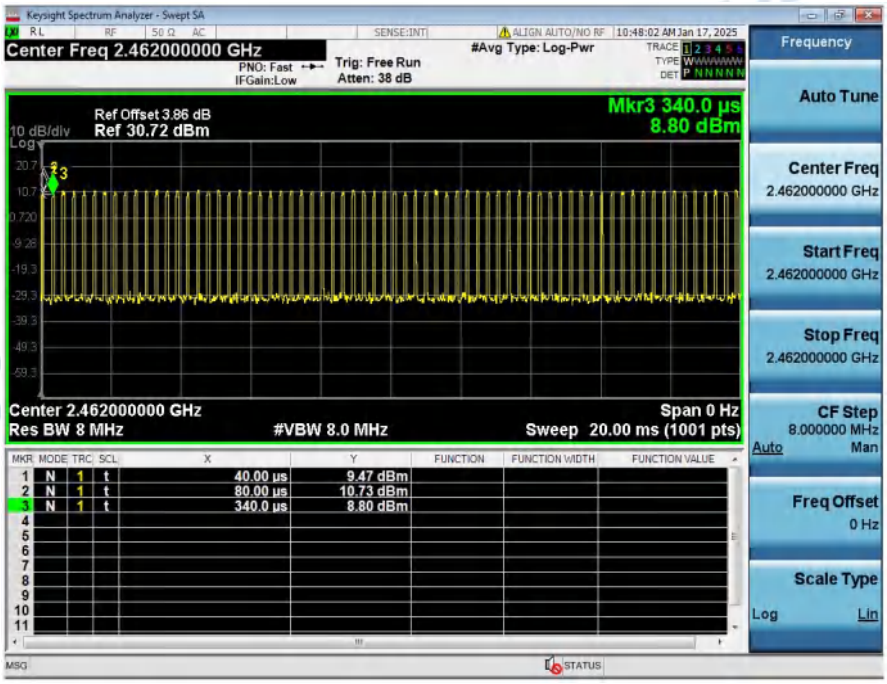
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



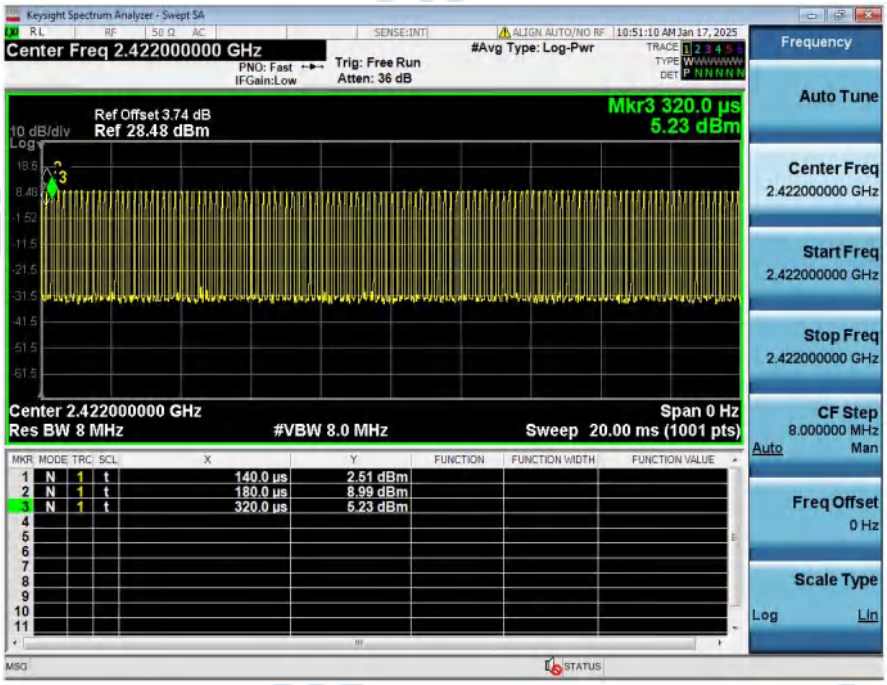
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



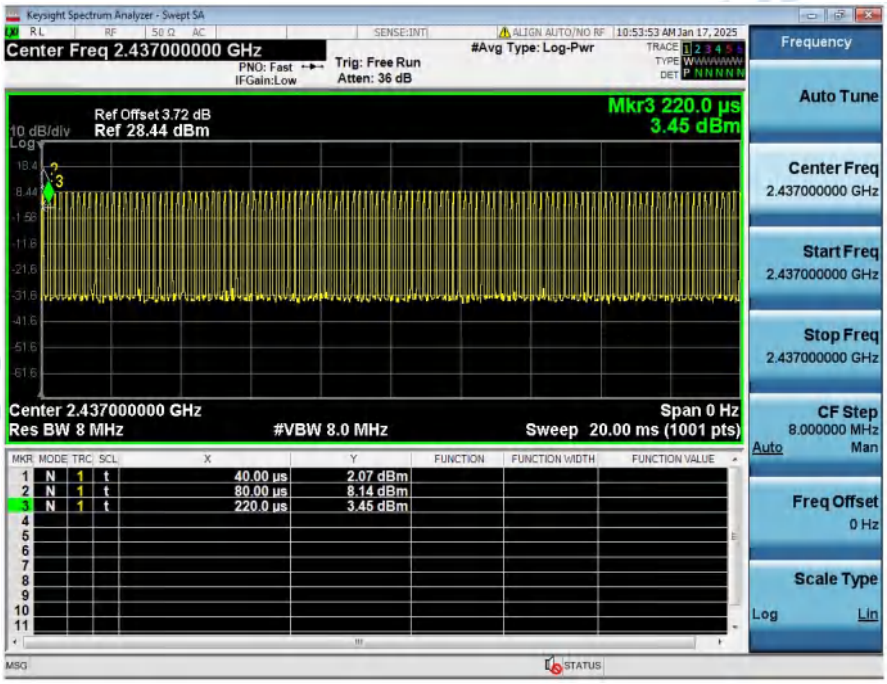
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462



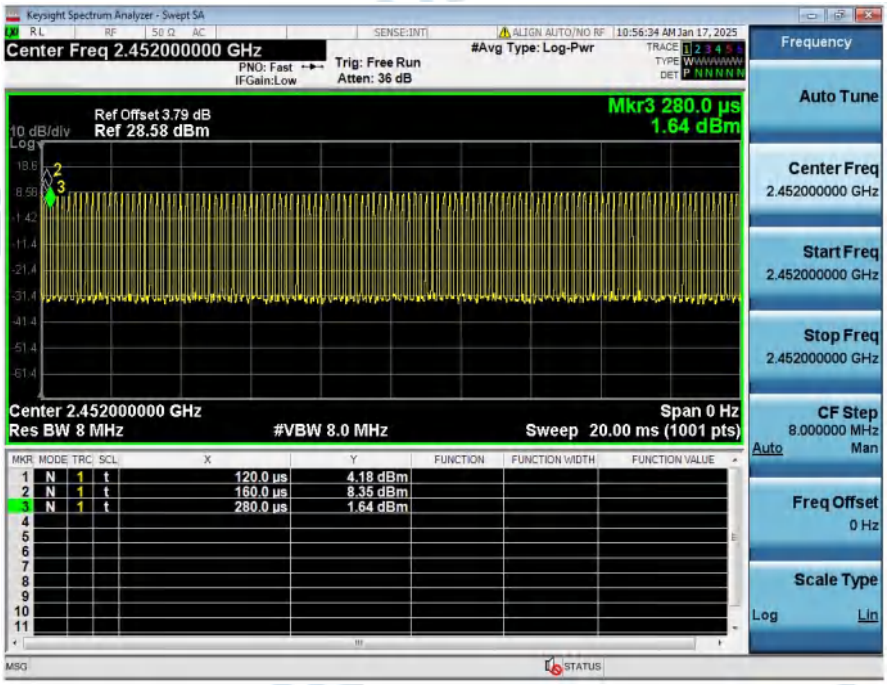
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2422



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2437



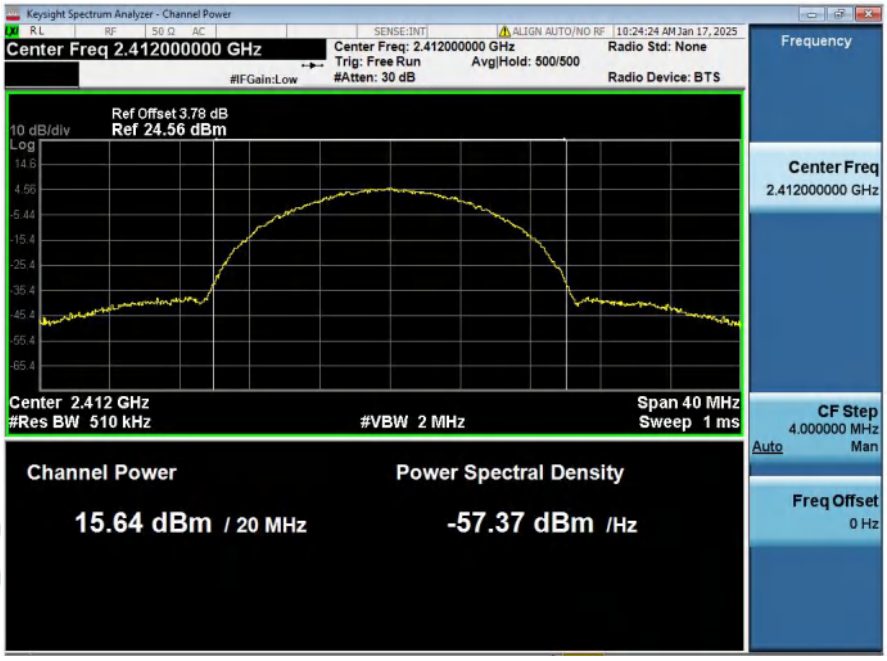
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2452



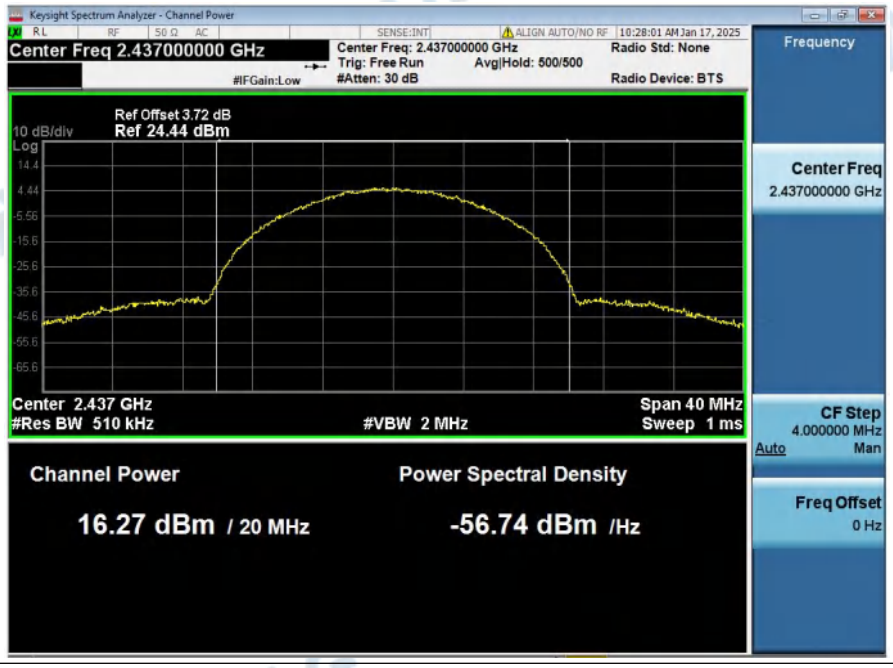
4. MAX. Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	15.64	N/A	15.64	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	16.27	N/A	16.27	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	15.89	N/A	15.89	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	14.20	N/A	14.20	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	13.59	N/A	13.59	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	12.94	N/A	12.94	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	12.49	N/A	12.49	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	12.71	N/A	12.71	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	11.89	N/A	11.89	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	12.94	N/A	12.94	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	12.63	N/A	12.63	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	12.18	N/A	12.18	30	Pass

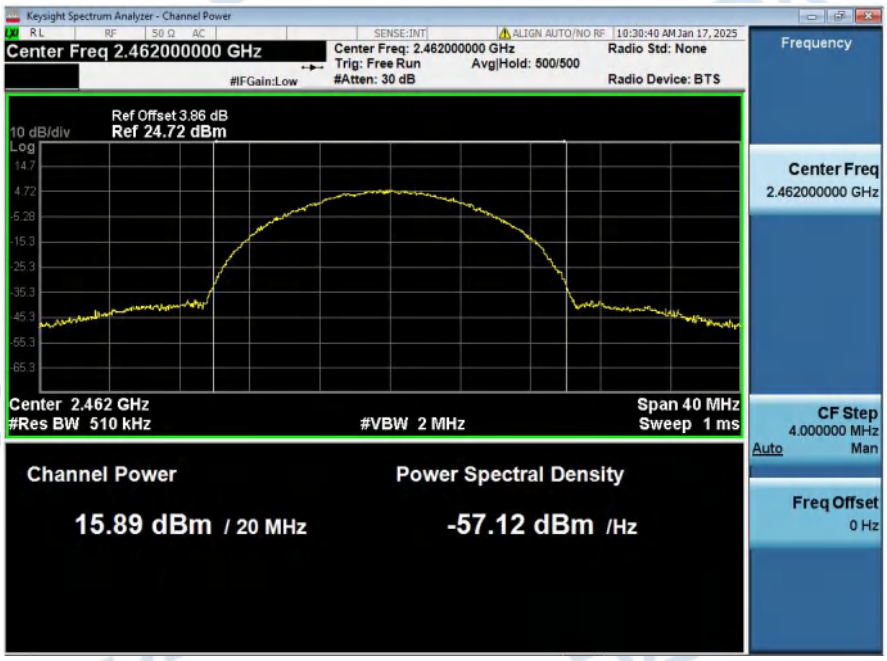
MAX__Output_Power_NVNT_ANT1_802_11b_2412



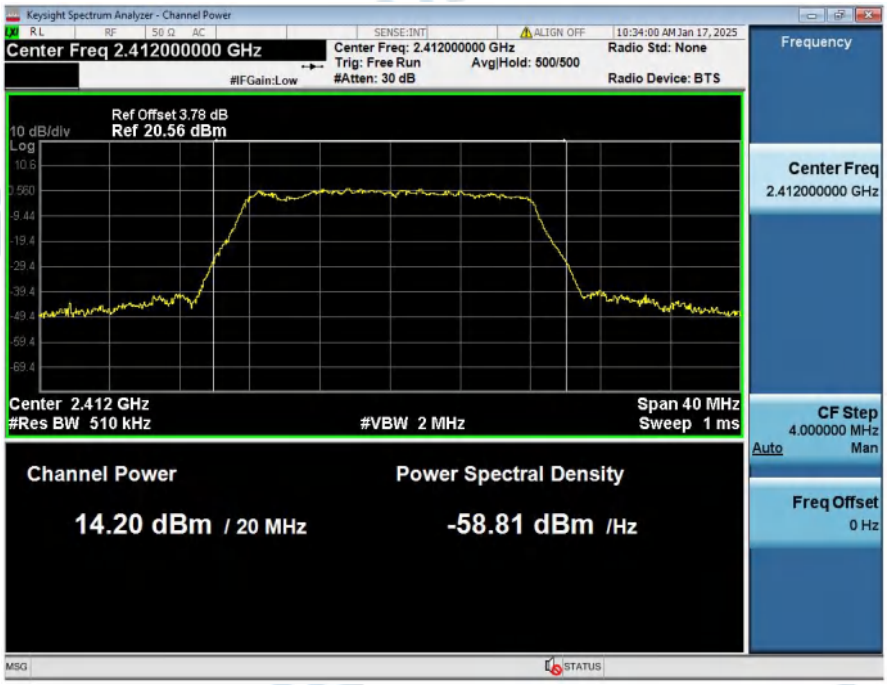
MAX__Output_Power_NVNT_ANT1_802_11b_2437



MAX__Output_Power_NVNT_ANT1_802_11b_2462



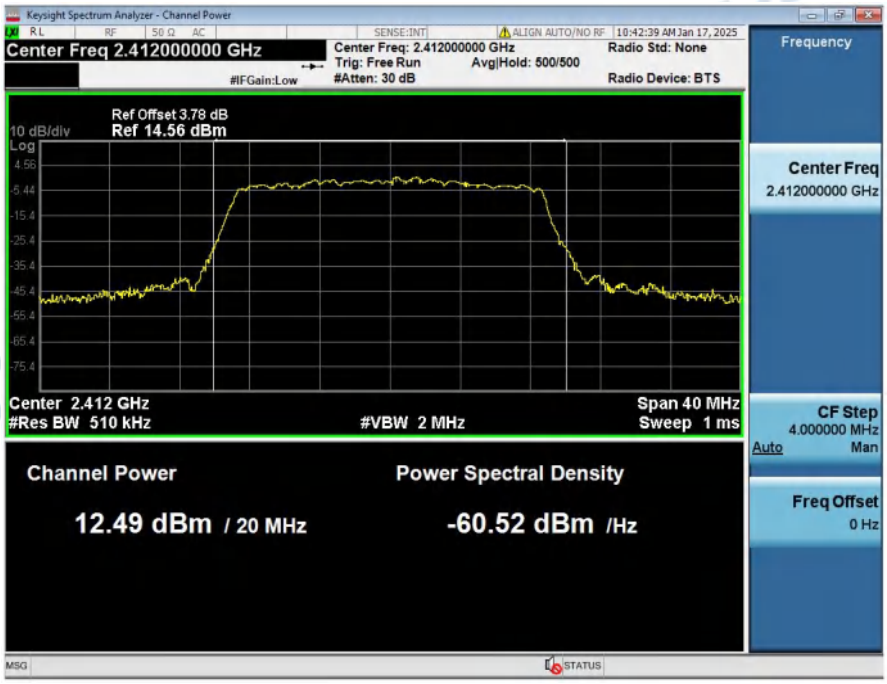
MAX__Output_Power_NVNT_ANT1_802_11g_2412



MAX__Output_Power_NVNT_ANT1_802_11g_2437

MAX__Output_Power_NVNT_ANT1_802_11g_2462

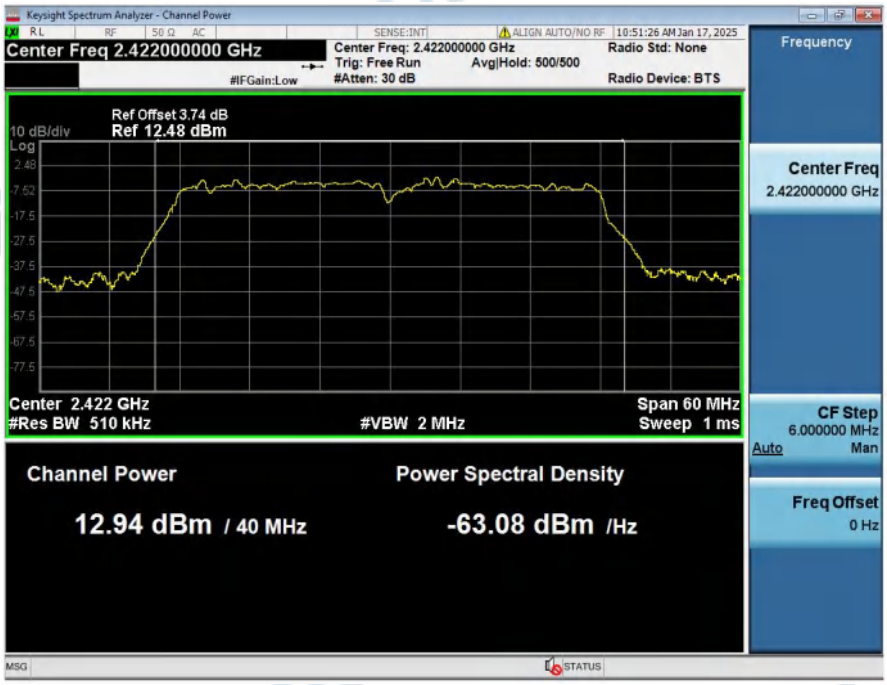
MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2412



MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2437

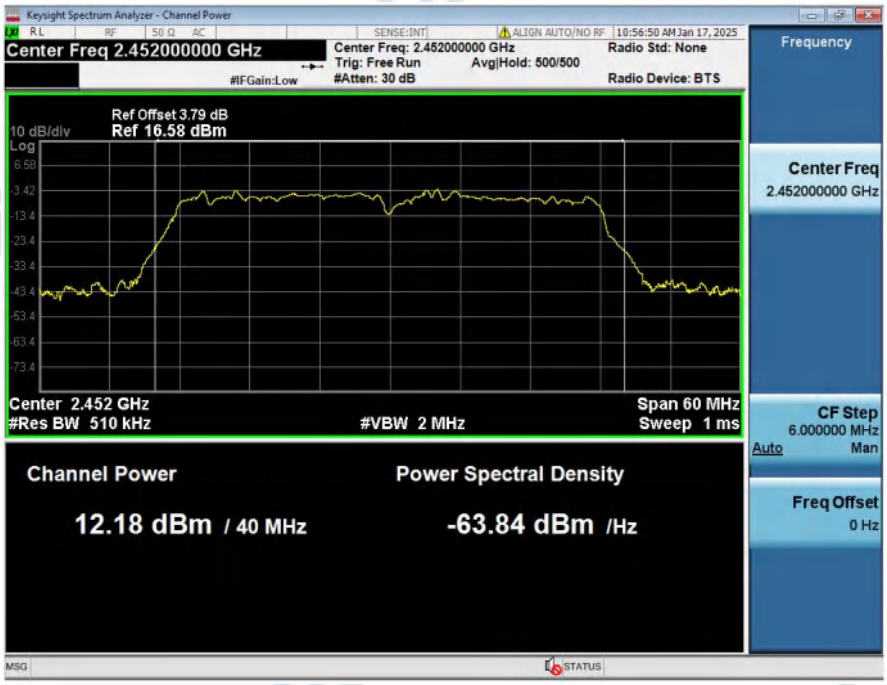
MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2462

MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2422



MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2437

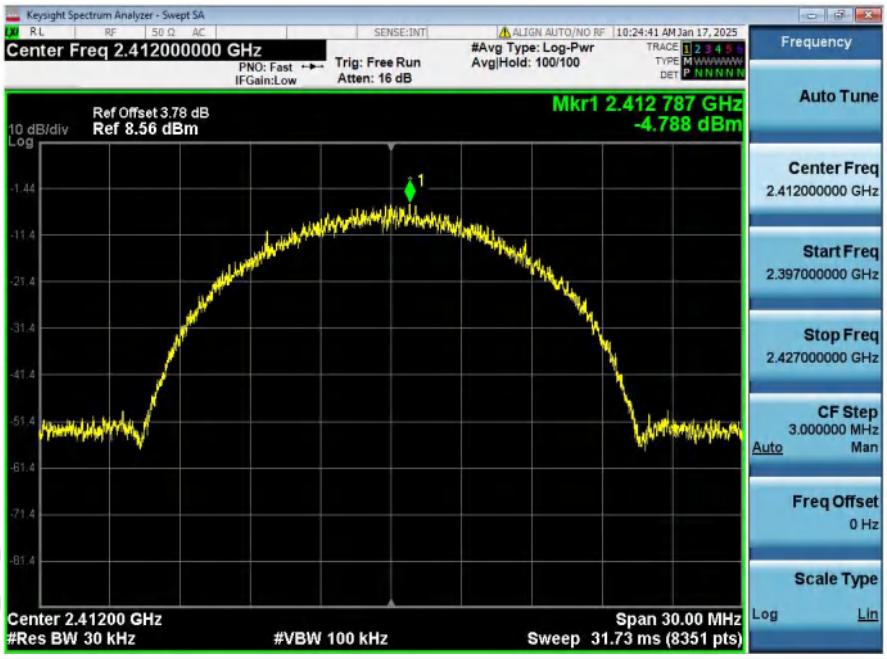
MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2452



5. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD(dBm/30kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	-4.79	8	Pass
NVNT	ANT1	802.11b	2437.00	-4.27	8	Pass
NVNT	ANT1	802.11b	2462.00	-4.37	8	Pass
NVNT	ANT1	802.11g	2412.00	-8.04	8	Pass
NVNT	ANT1	802.11g	2437.00	-8.83	8	Pass
NVNT	ANT1	802.11g	2462.00	-9.57	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-7.98	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-7.82	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-8.58	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-10.81	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-11.01	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-11.57	8	Pass

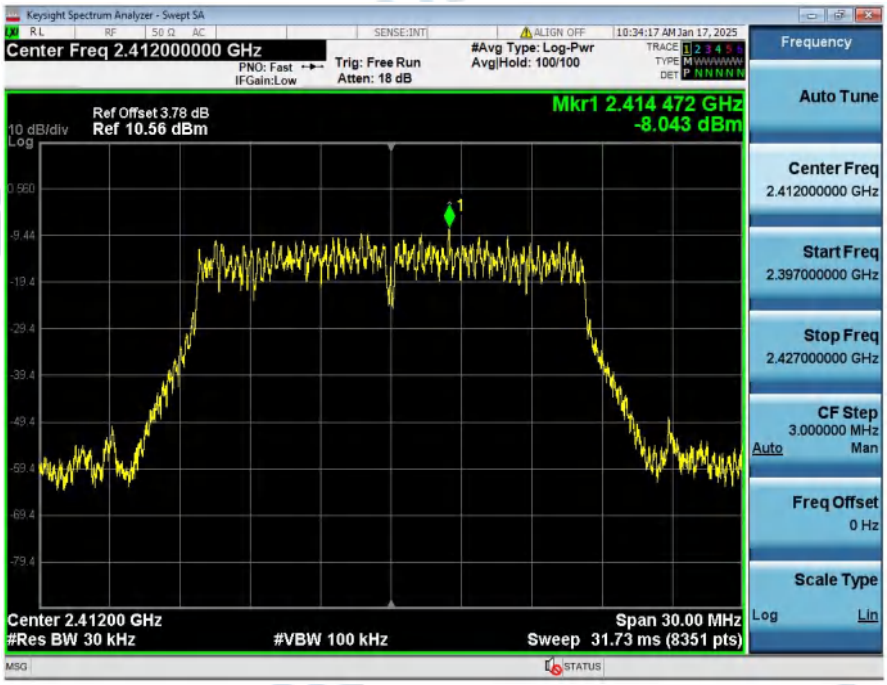
Power_Spectral_Density_NVNT_ANT1_802_11b_2412



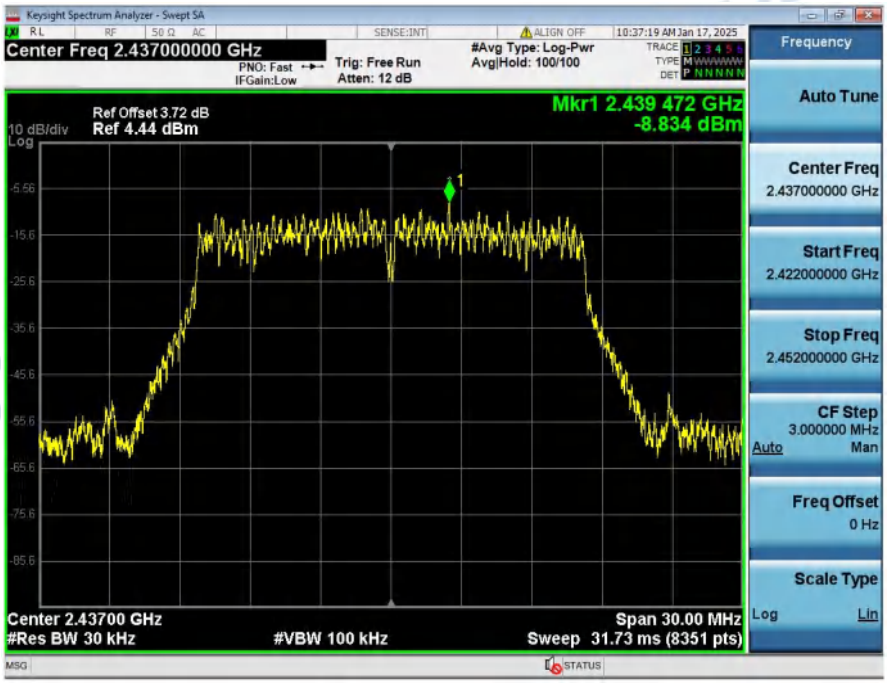
Power_Spectral_Density_NVNT_ANT1_802_11b_2437

Power_Spectral_Density_NVNT_ANT1_802_11b_2462

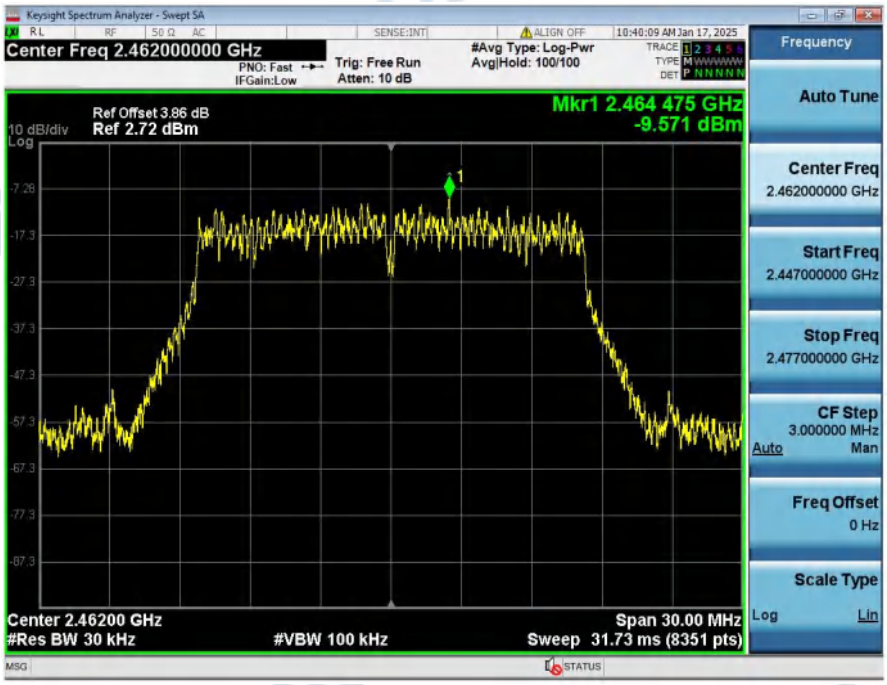
Power_Spectral_Density_NVNT_ANT1_802_11g_2412



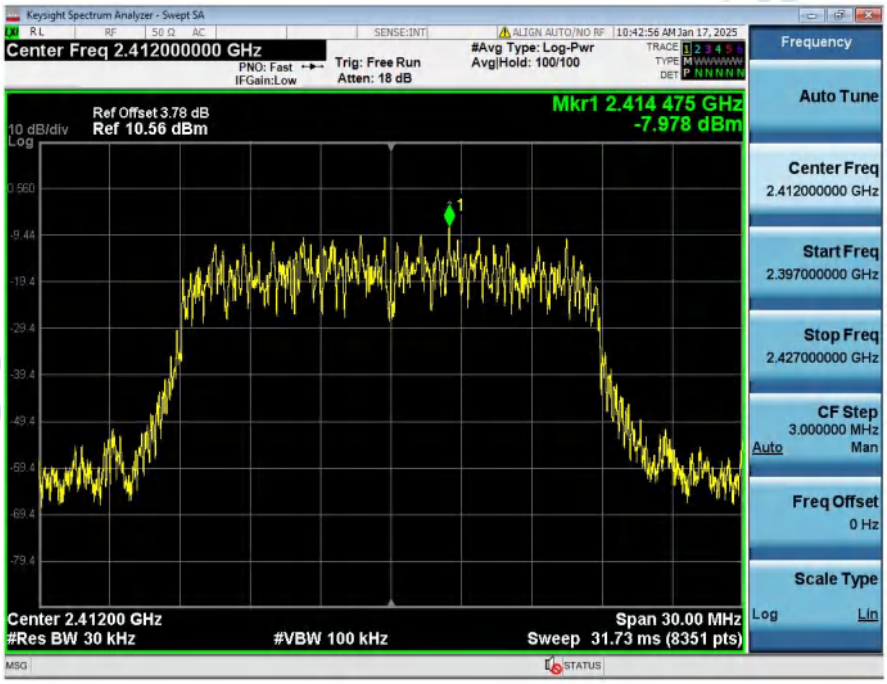
Power_Spectral_Density_NVNT_ANT1_802_11g_2437



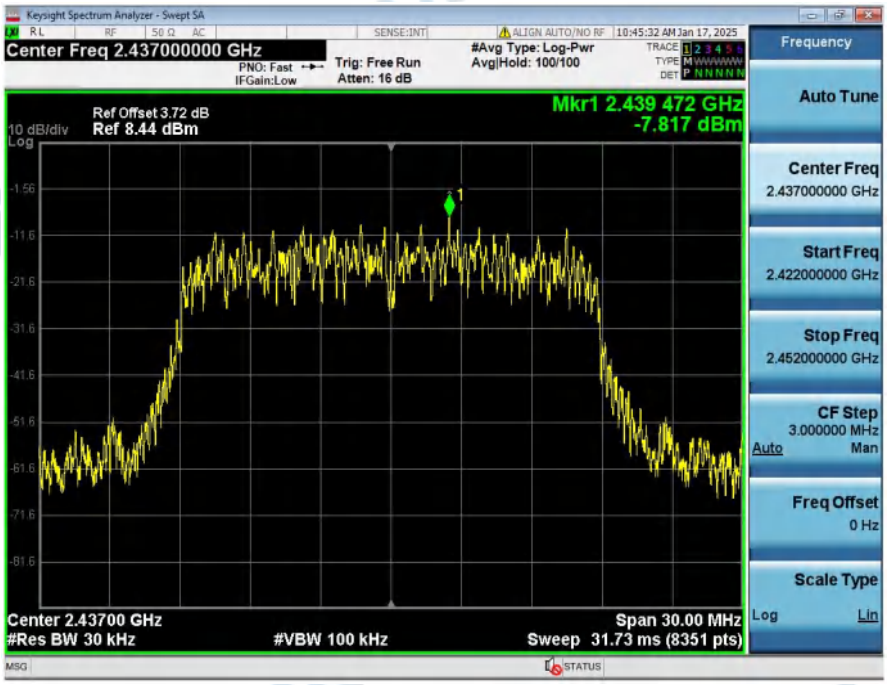
Power_Spectral_Density_NVNT_ANT1_802_11g_2462



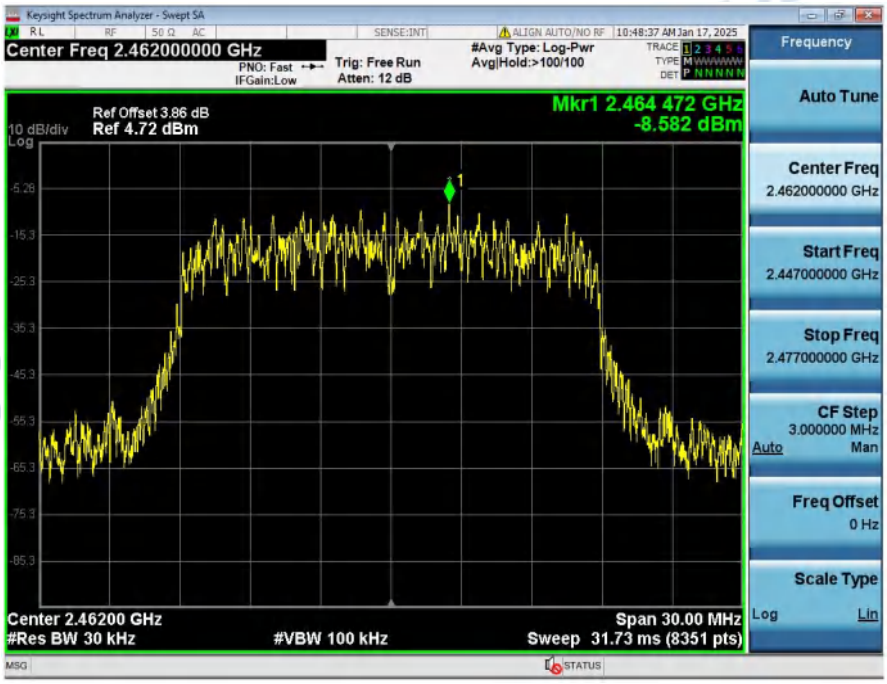
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412



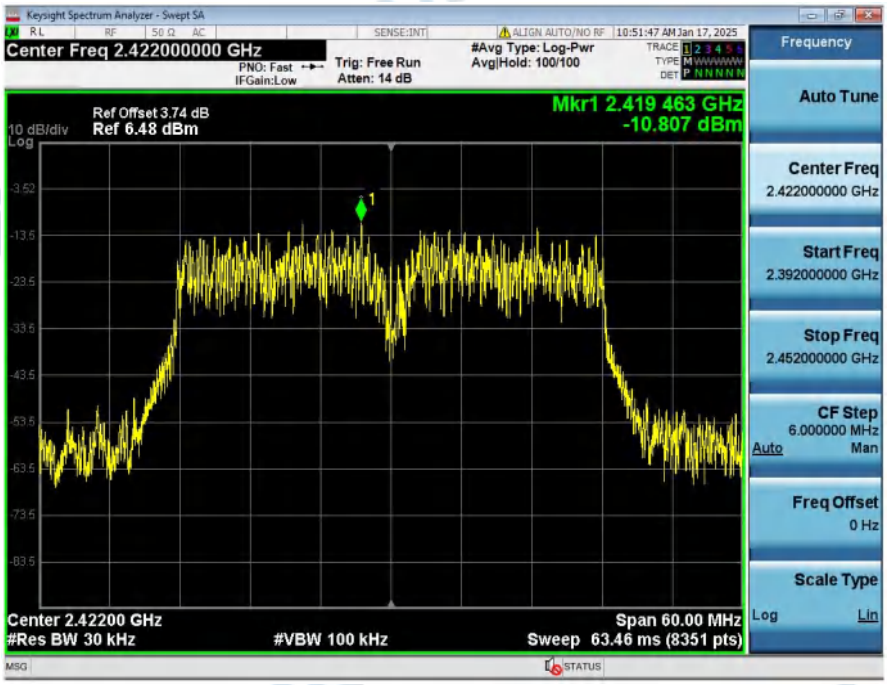
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437



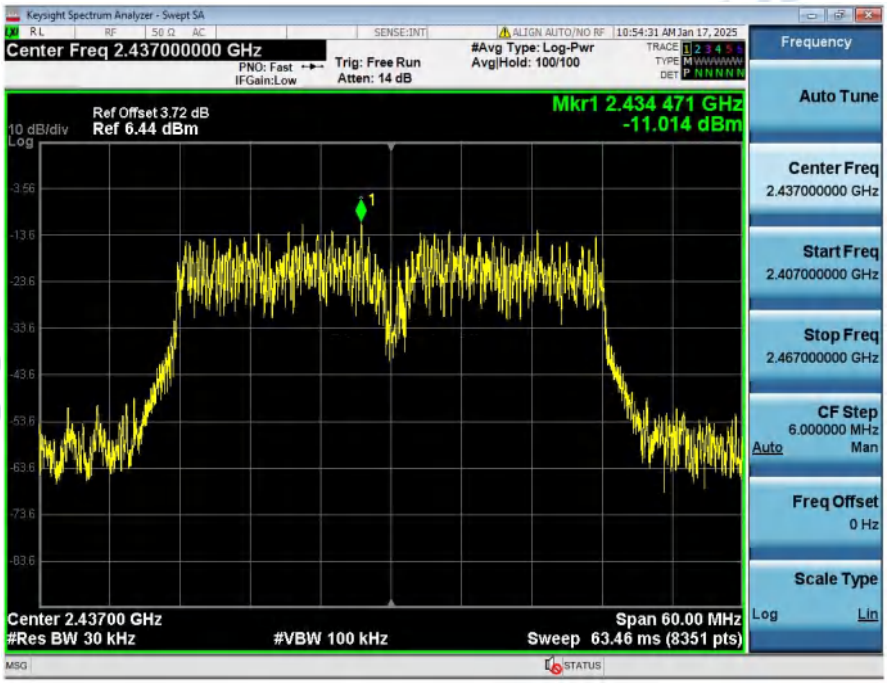
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2462



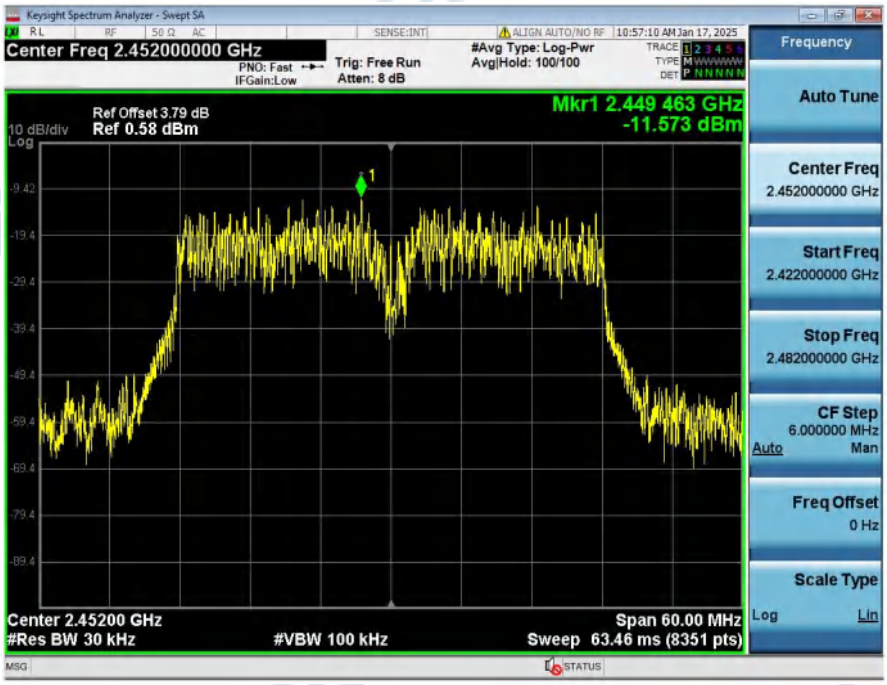
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2422



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2437



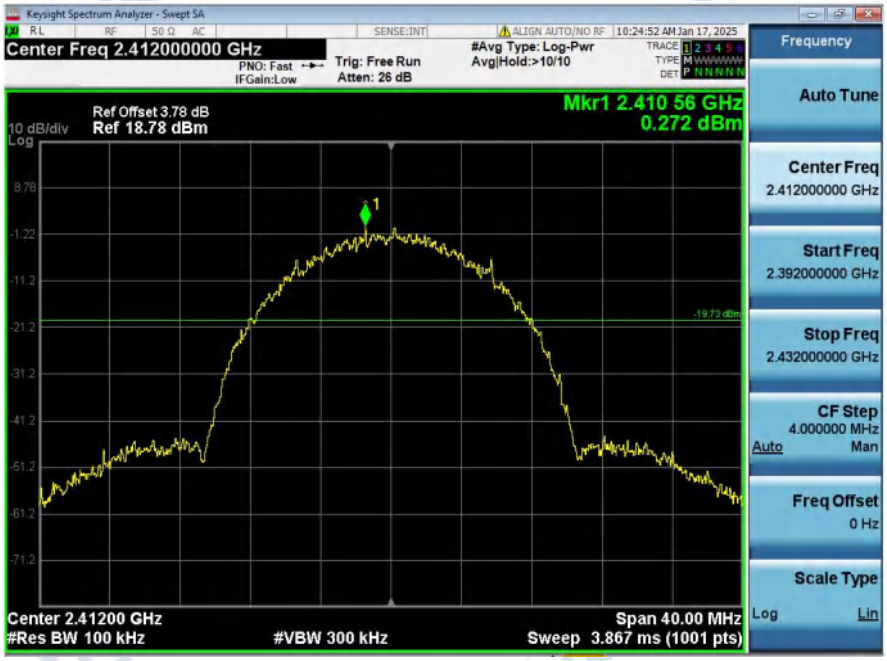
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2452



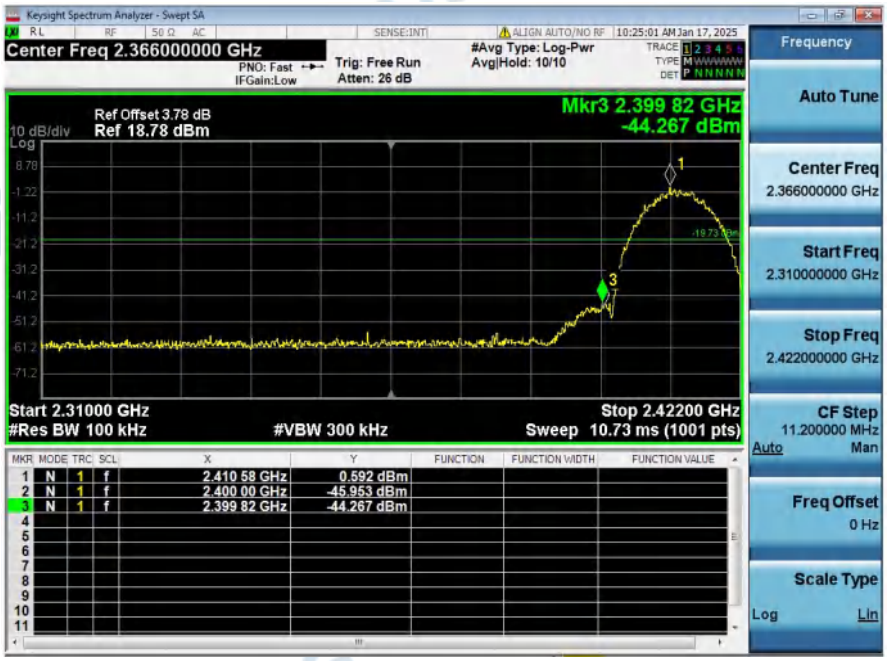
6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.824	0.272	-44.267	-19.728	Pass
NVNT	ANT1	802.11b	2462.00	2486.512	0.689	-56.408	-19.311	Pass
NVNT	ANT1	802.11g	2412.00	2399.936	-3.947	-49.227	-23.947	Pass
NVNT	ANT1	802.11g	2462.00	2483.632	-4.535	-58.846	-24.535	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.936	-3.153	-49.272	-23.153	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2484.544	-4.305	-59.198	-24.305	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2396.988	-6.410	-44.216	-26.410	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2489.460	-7.024	-47.846	-27.024	Pass

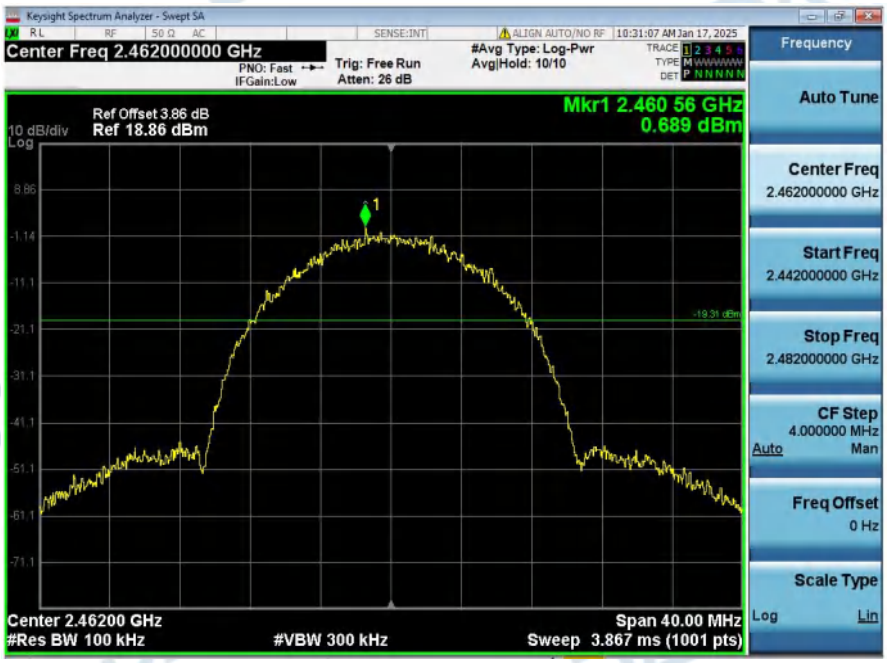
1_Reference_Level_NVNT_ANT1_802_11b_2412



2_Bandedge_NVNT_ANT1_802_11b_2412

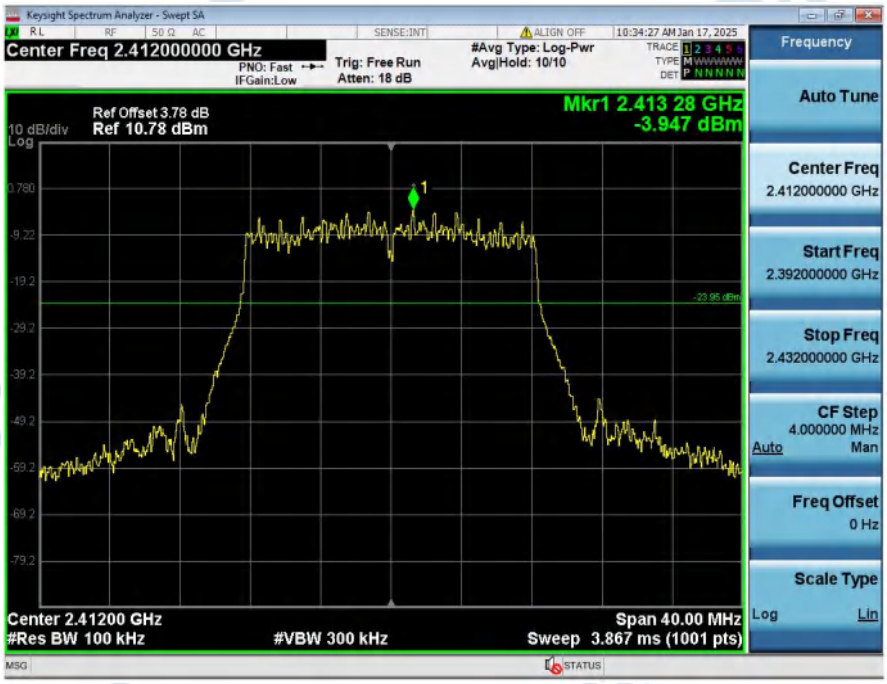


1_Reference_Level_NVNT_ANT1_802_11b_2462



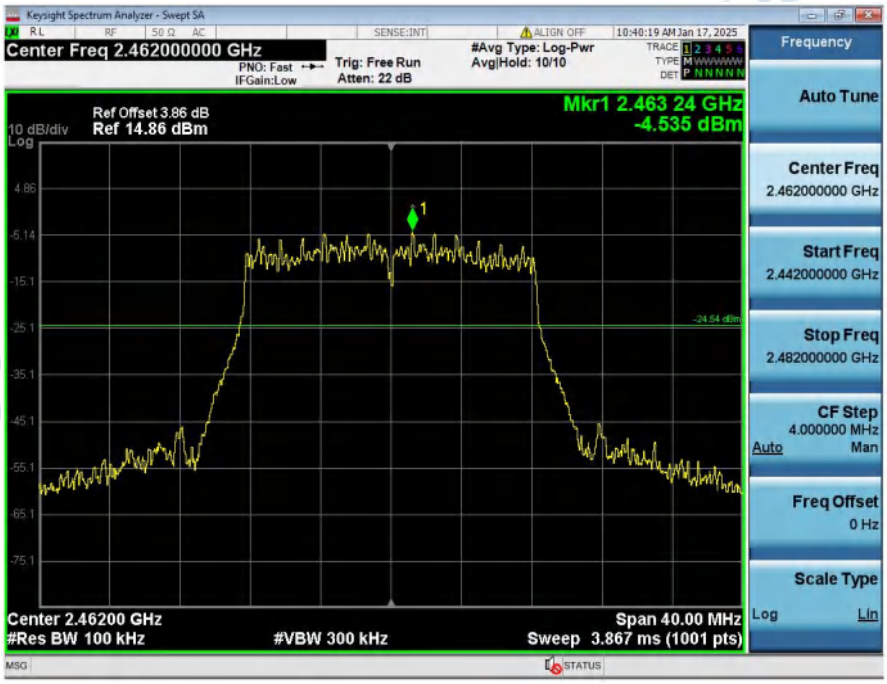
2_Bandedge_NVNT_ANT1_802_11b_2462

1_Reference_Level_NVNT_ANT1_802_11g_2412



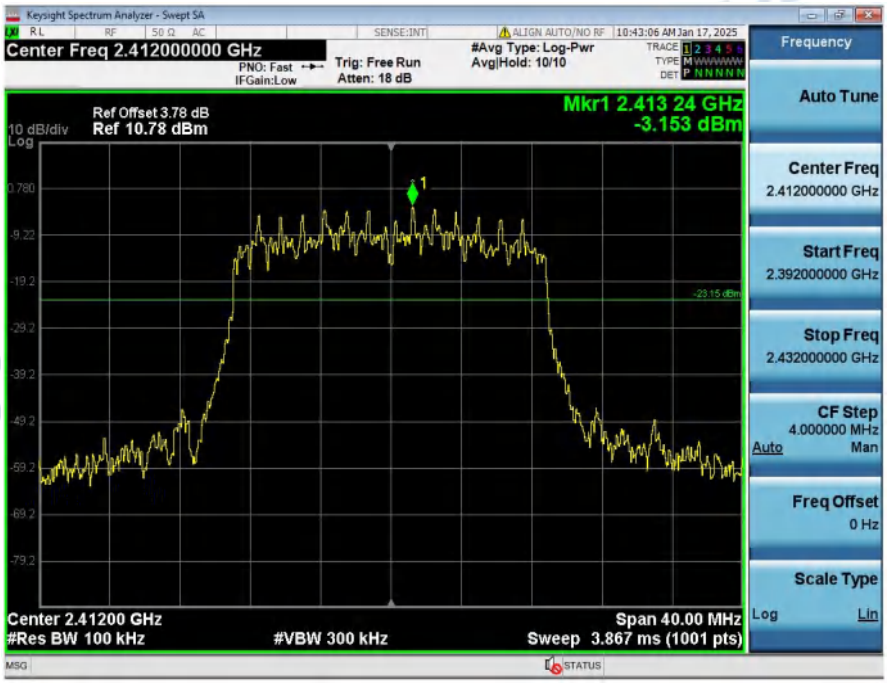
2_Bandedge_NVNT_ANT1_802_11g_2412

1_Reference_Level_NVNT_ANT1_802_11g_2462

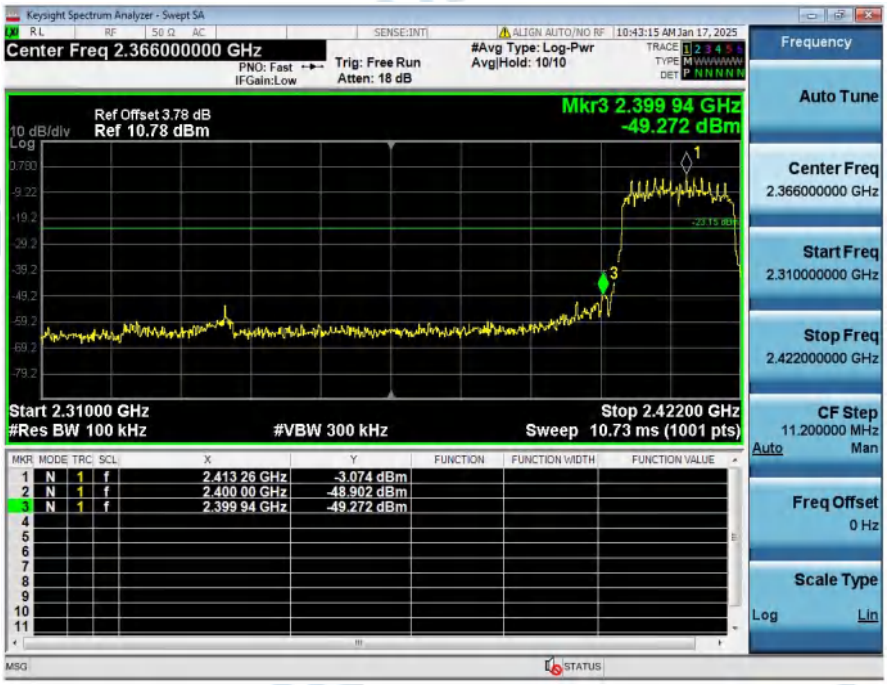


2_Bandedge_NVNT_ANT1_802_11g_2462

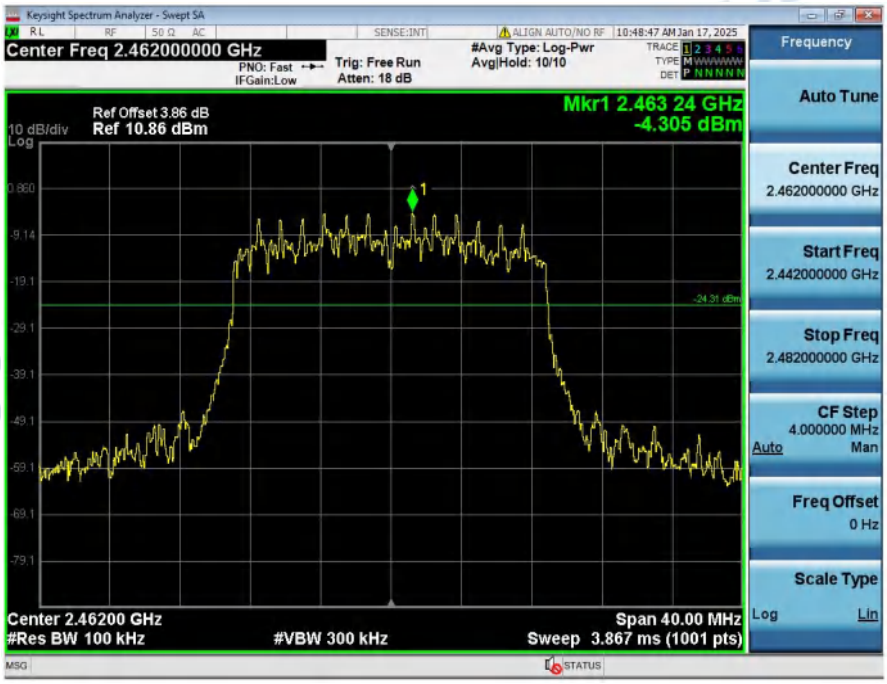
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412

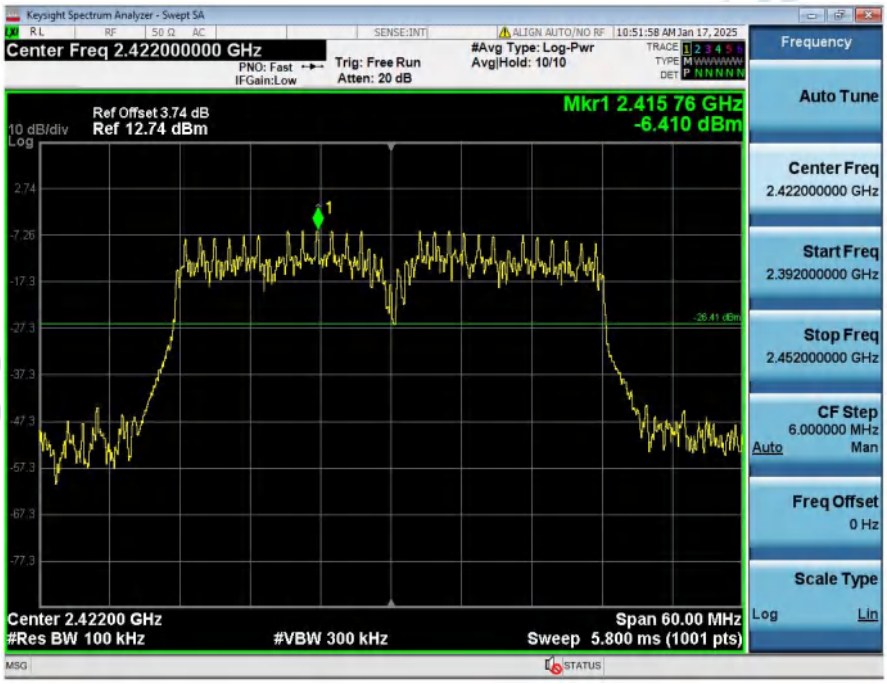


1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462

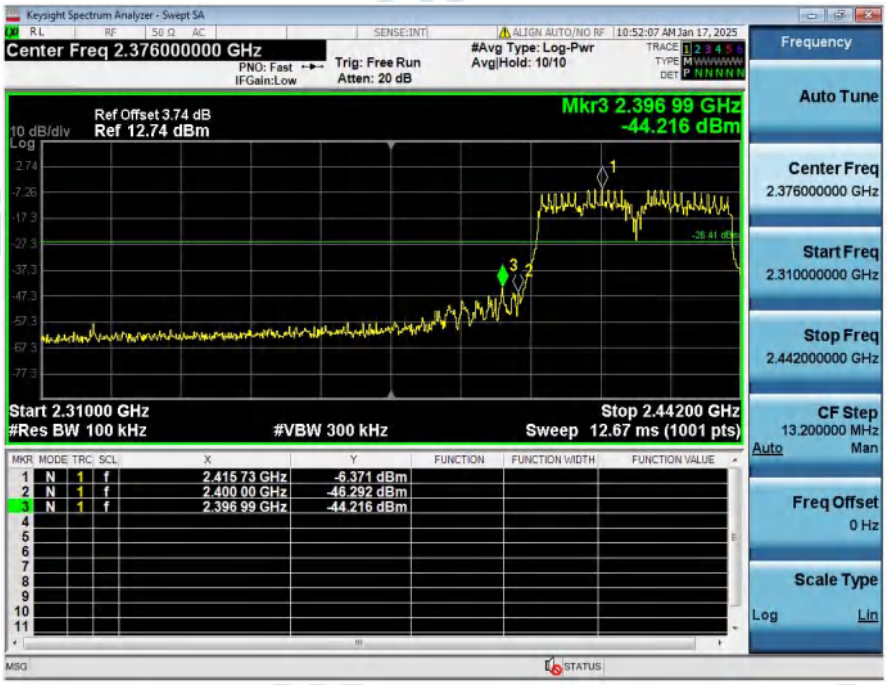


2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462

1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422

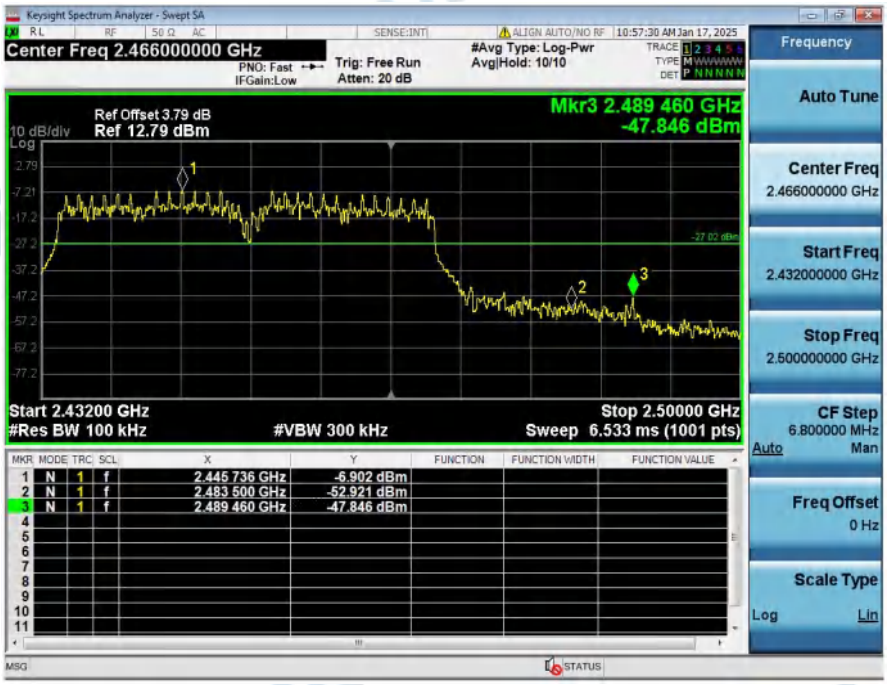


2_Bandedge_NVNT_ANT1_802_11n(HT40)_2422



1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452

2_Bandedge_NVNT_ANT1_802_11n(HT40)_2452

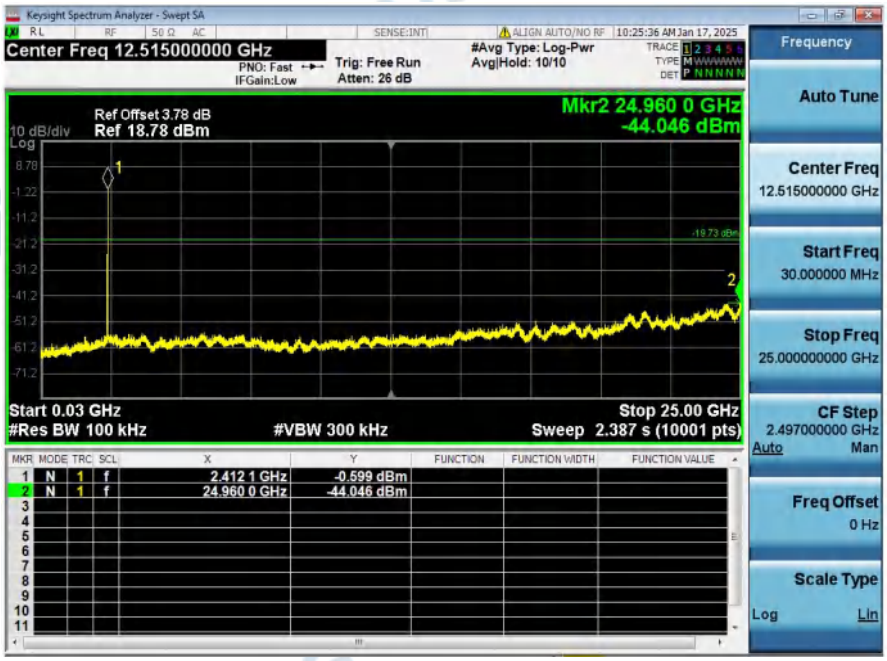


7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24960.048	0.272	-44.046	-19.728	Pass
NVNT	ANT1	802.11b	2437.00	24982.521	0.302	-41.726	-19.698	Pass
NVNT	ANT1	802.11b	2462.00	24465.642	0.689	-43.762	-19.311	Pass
NVNT	ANT1	802.11g	2412.00	24428.187	-3.947	-51.588	-23.947	Pass
NVNT	ANT1	802.11g	2437.00	24972.533	-3.599	-46.718	-23.599	Pass
NVNT	ANT1	802.11g	2462.00	24478.127	-4.535	-47.213	-24.535	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24972.533	-3.153	-51.544	-23.153	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24468.139	-3.187	-45.598	-23.187	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24510.588	-4.305	-50.852	-24.305	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24997.503	-6.410	-49.178	-26.410	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24448.163	-6.531	-49.620	-26.531	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	24982.521	-7.024	-49.331	-27.024	Pass

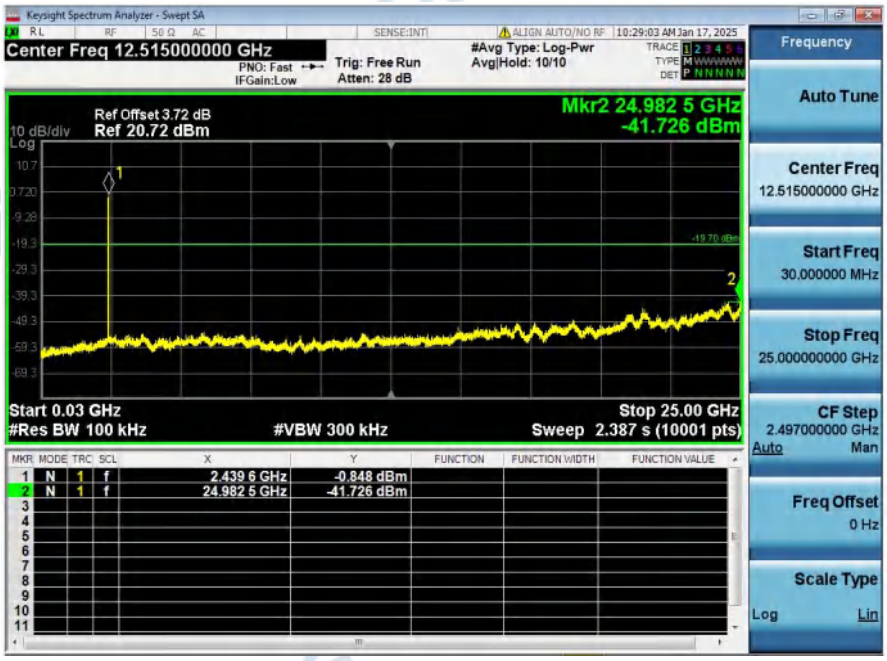
1_Reference_Level_NVNT_ANT1_802_11b_2412

2_Spurious_Emission_NVNT_ANT1_802_11b_2412

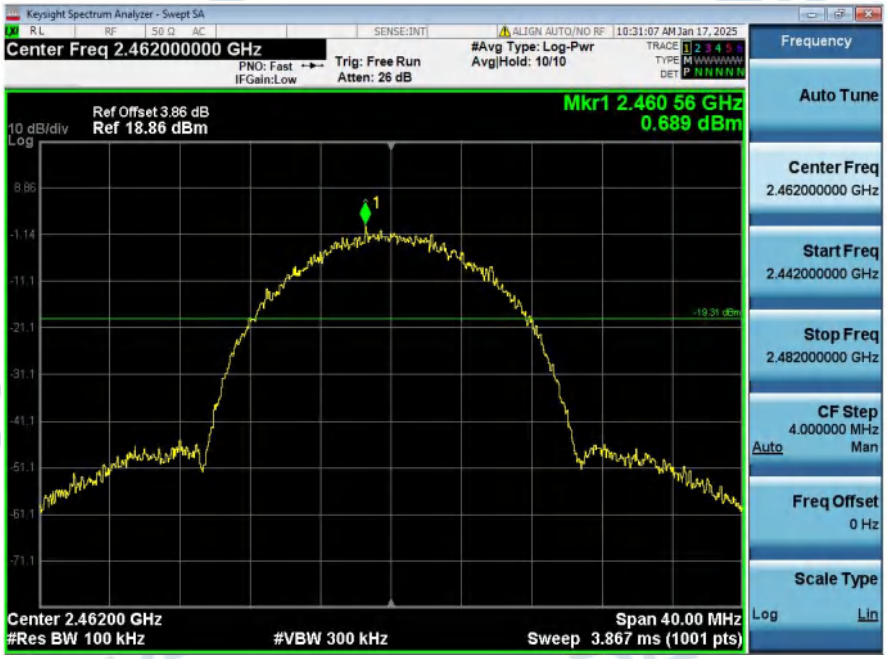


1_Reference_Level_NVNT_ANT1_802_11b_2437

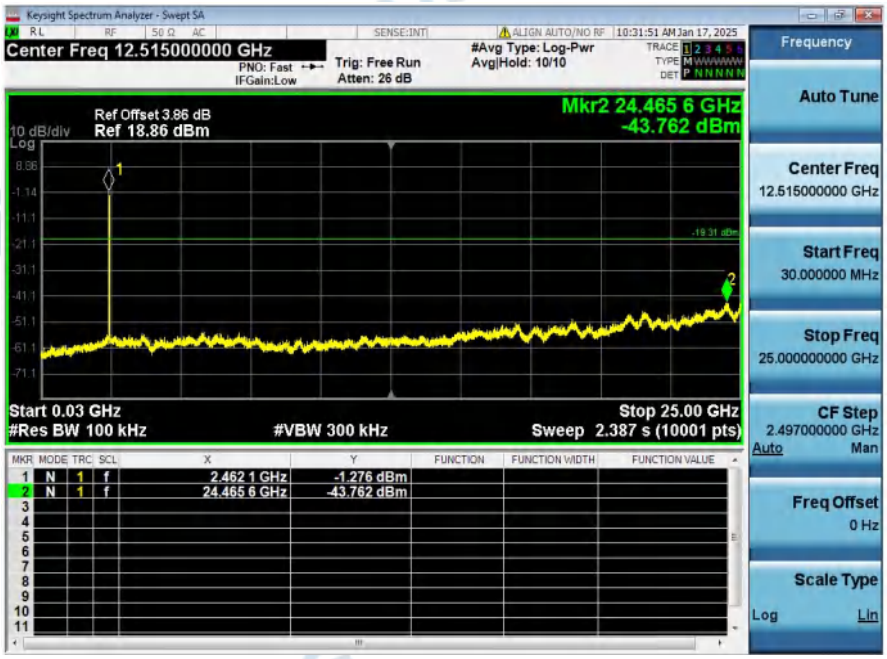
2_Spurious_Emission_NVNT_ANT1_802_11b_2437



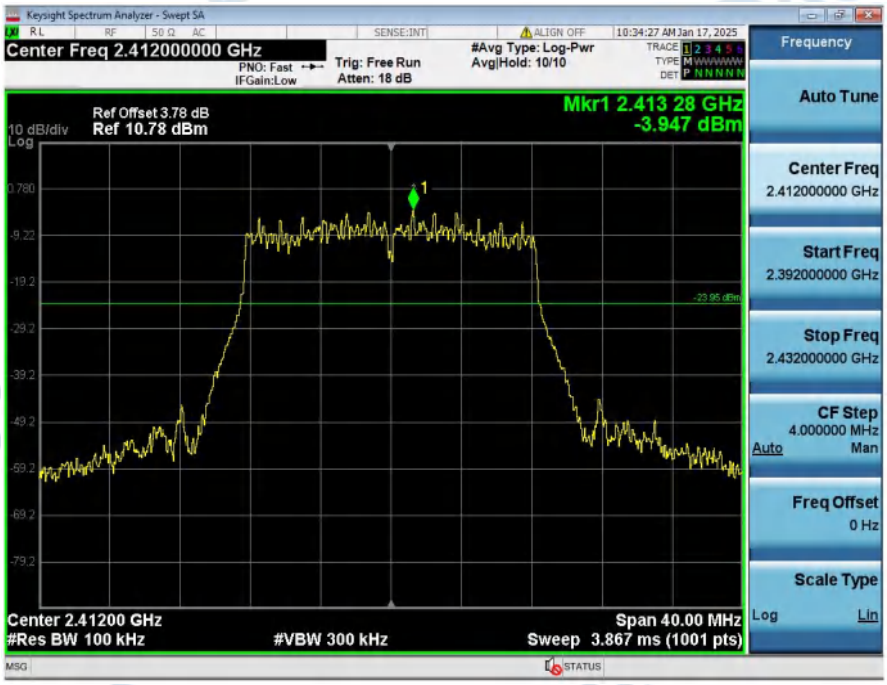
1_Reference_Level_NVNT_ANT1_802_11b_2462



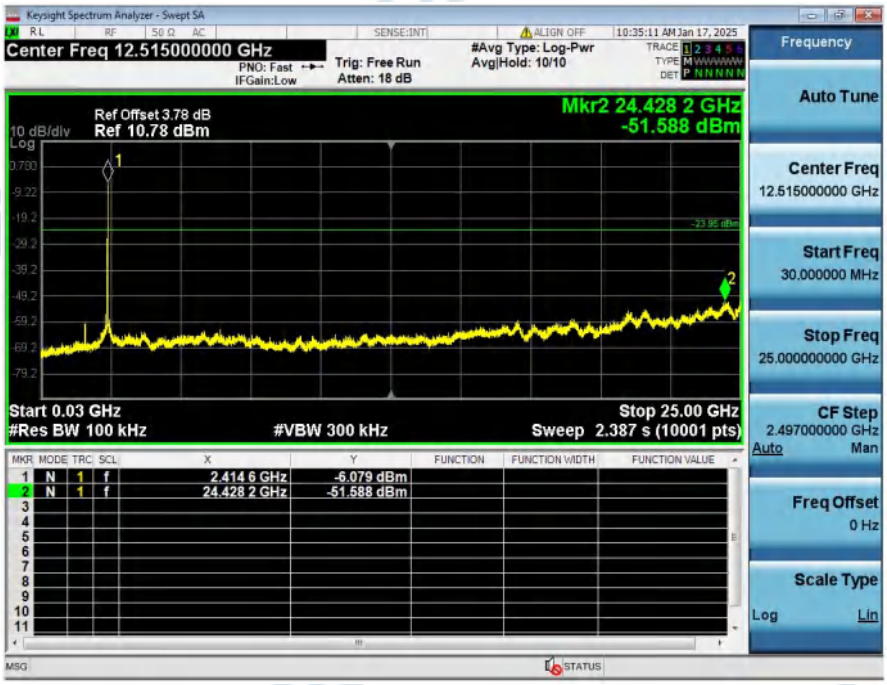
2_Spurious_Emission_NVNT_ANT1_802_11b_2462



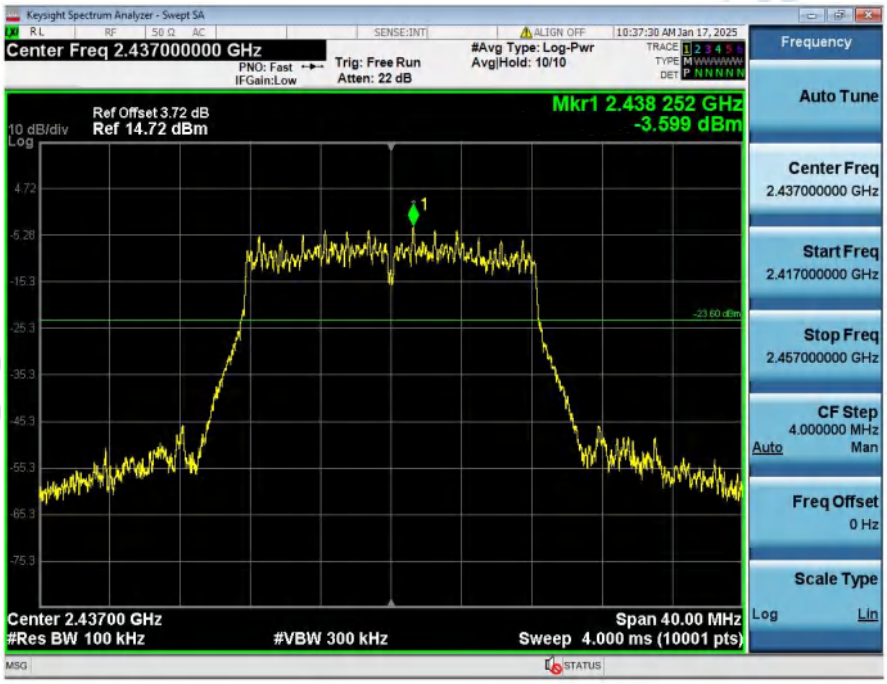
1_Reference_Level_NVNT_ANT1_802_11g_2412



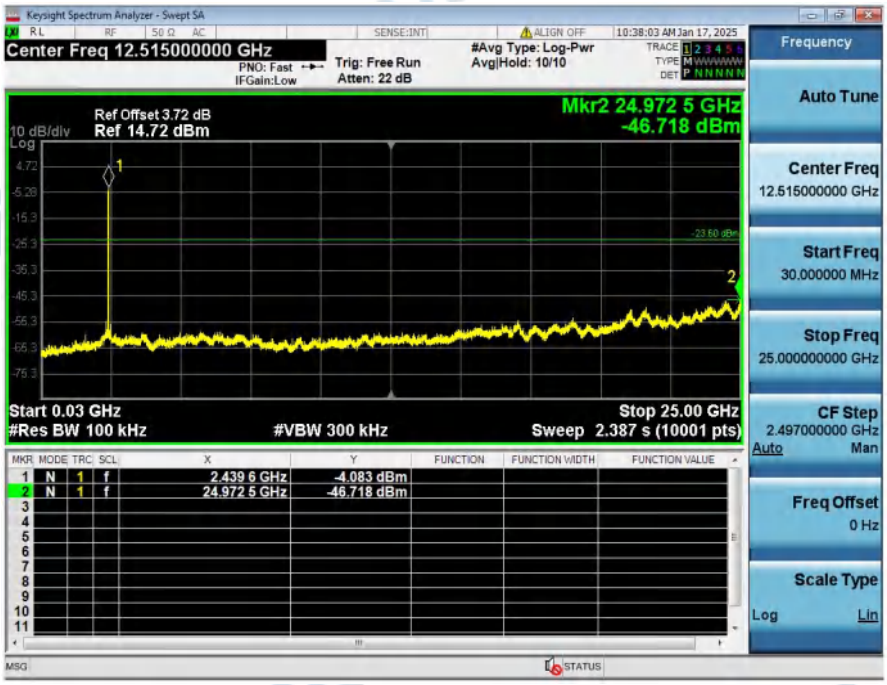
2_Spurious_Emission_NVNT_ANT1_802_11g_2412



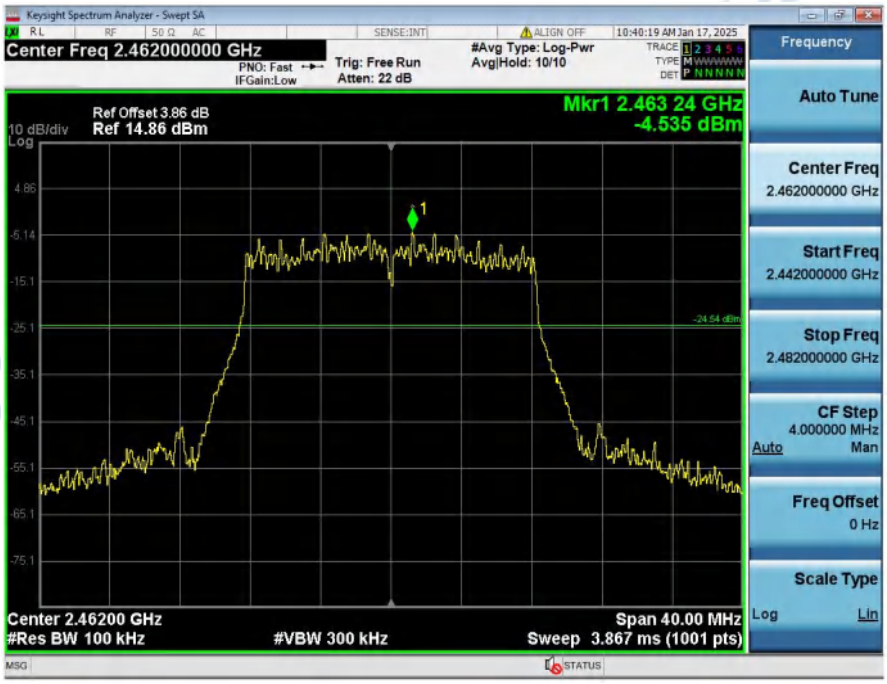
1_Reference_Level_NVNT_ANT1_802_11g_2437



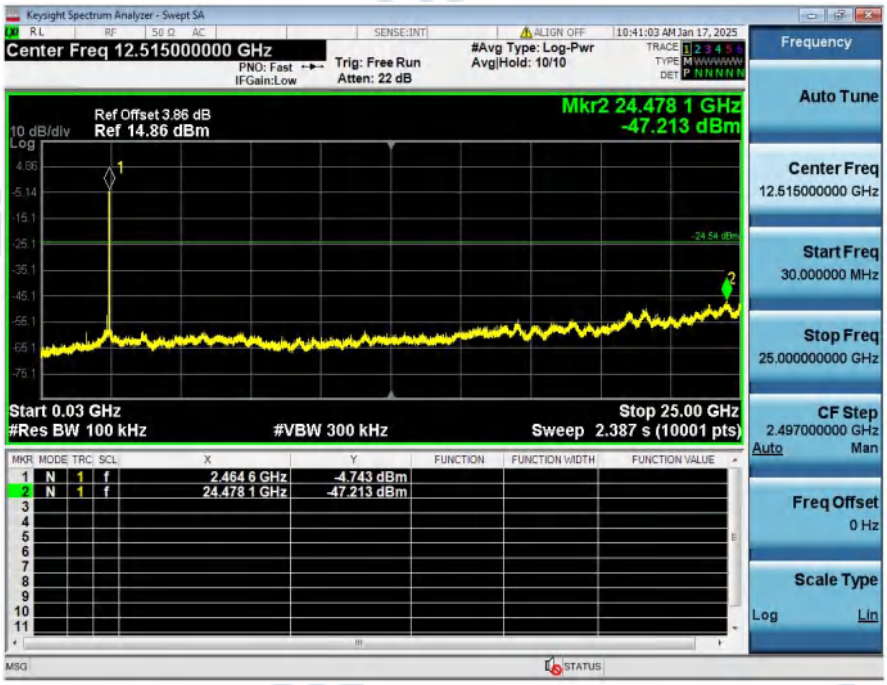
2_Spurious_Emission_NVNT_ANT1_802_11g_2437



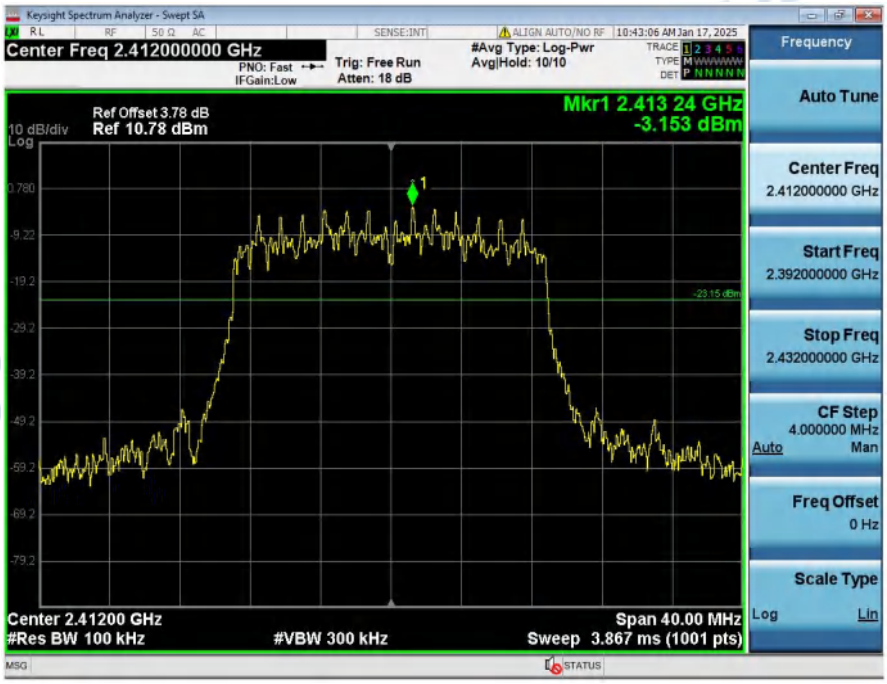
1_Reference_Level_NVNT_ANT1_802_11g_2462



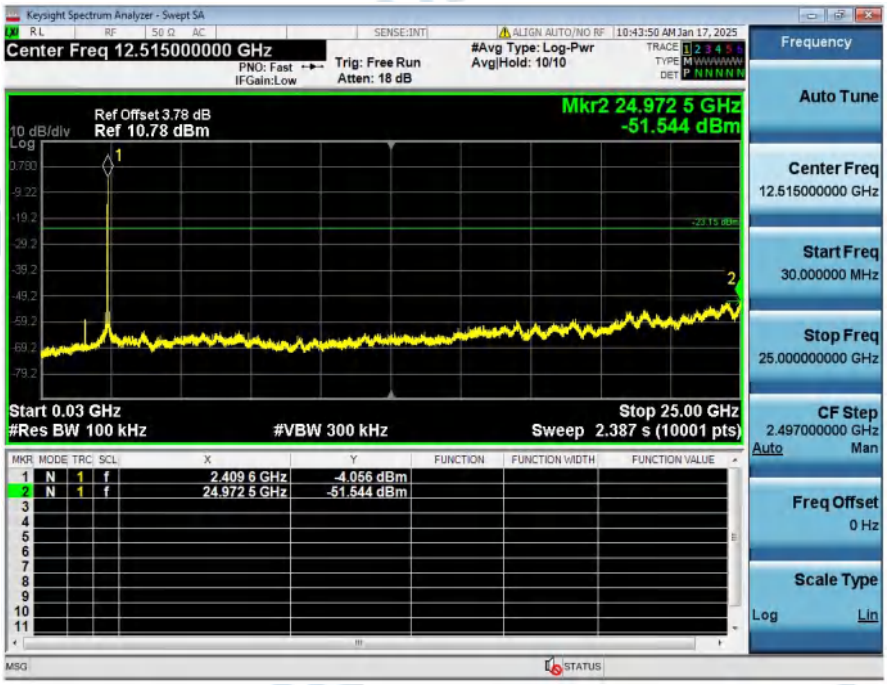
2_Spurious_Emission_NVNT_ANT1_802_11g_2462



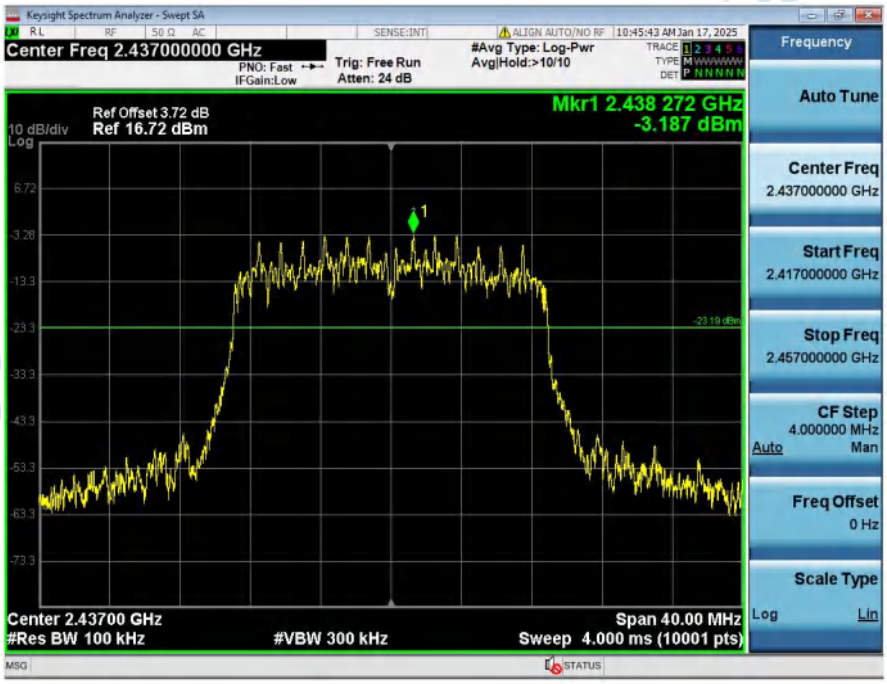
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



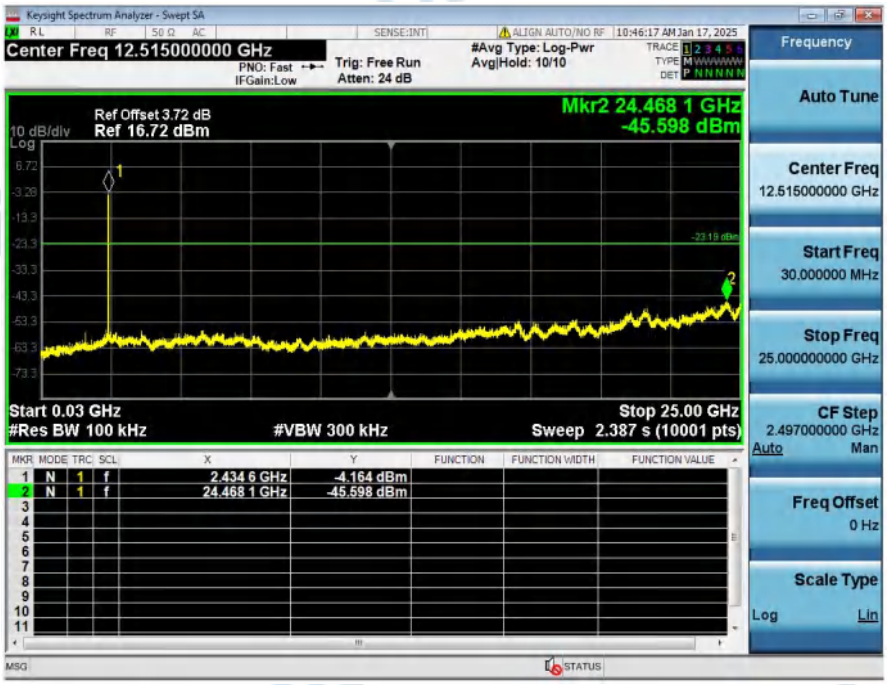
2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2412



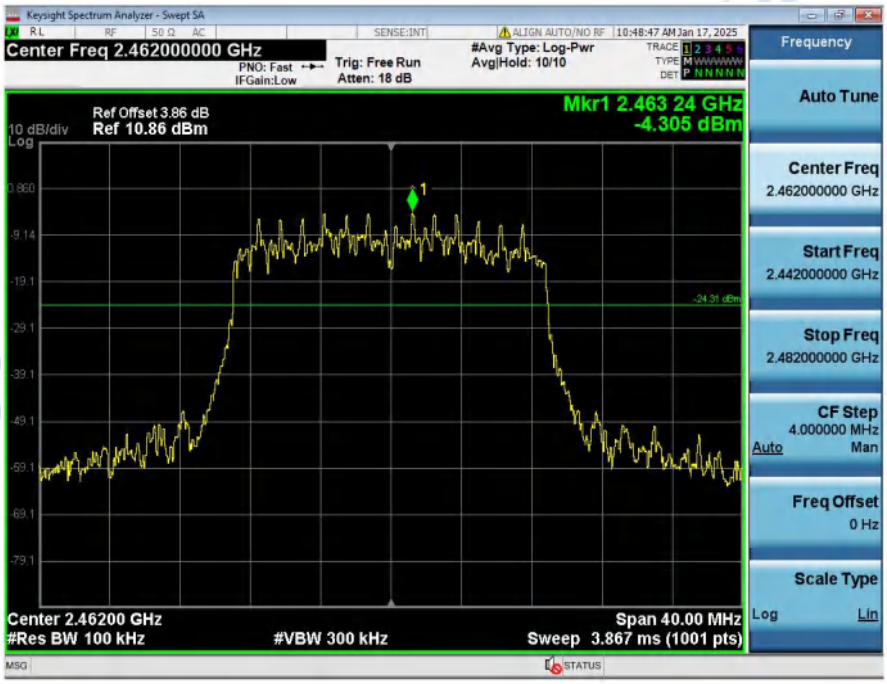
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2437



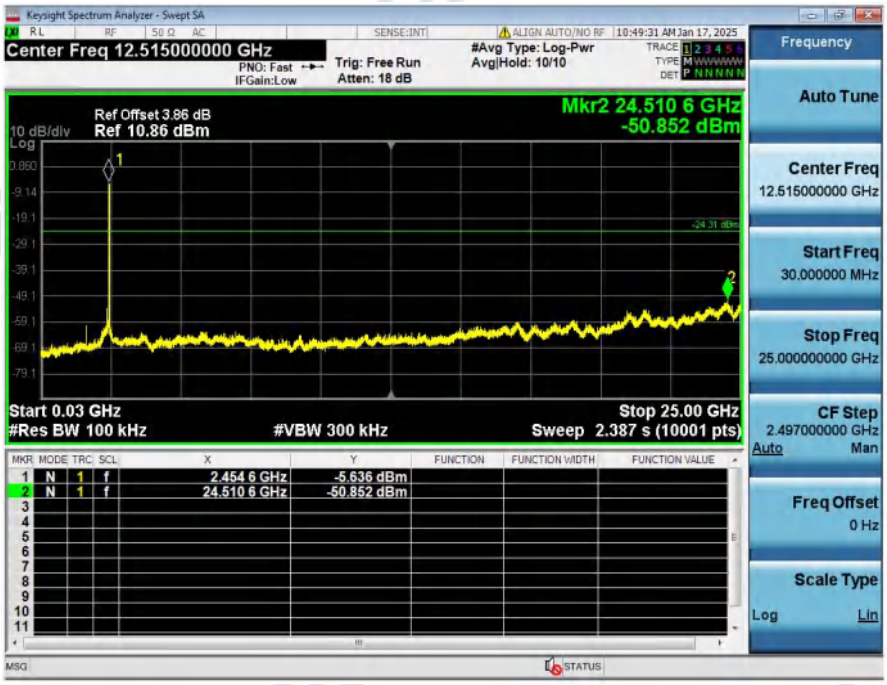
2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2437



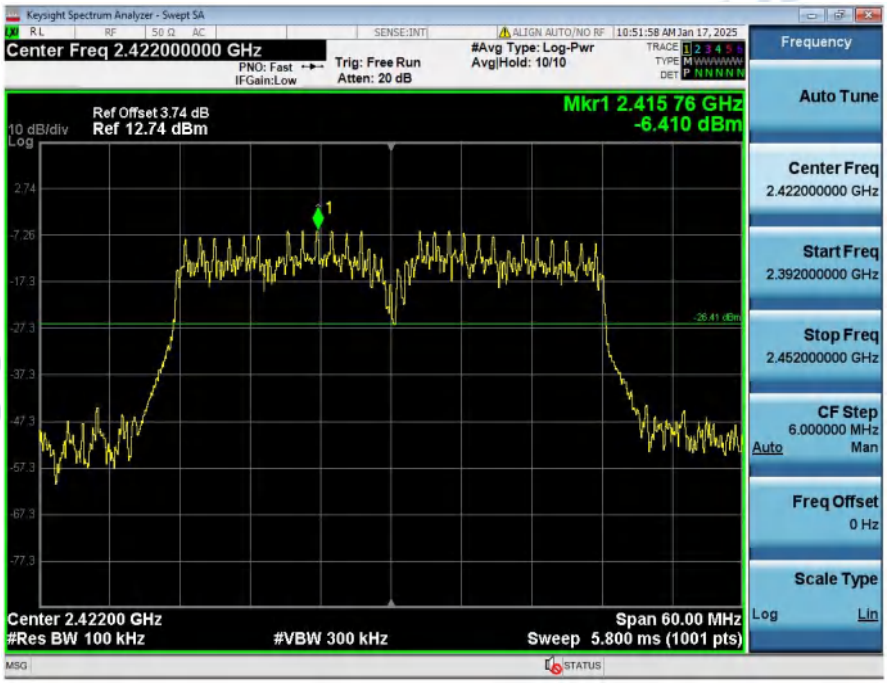
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



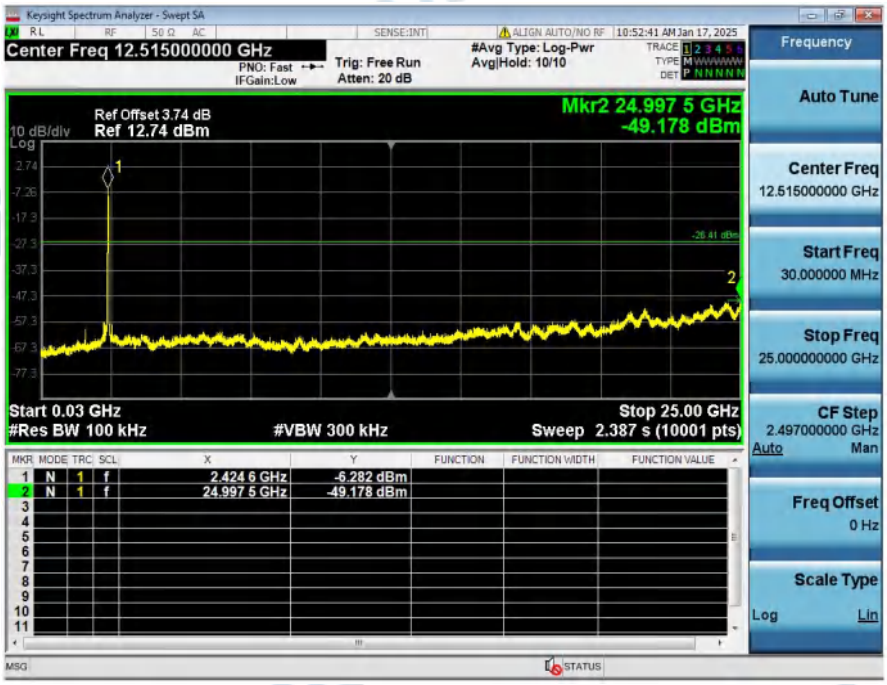
2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2462



1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422

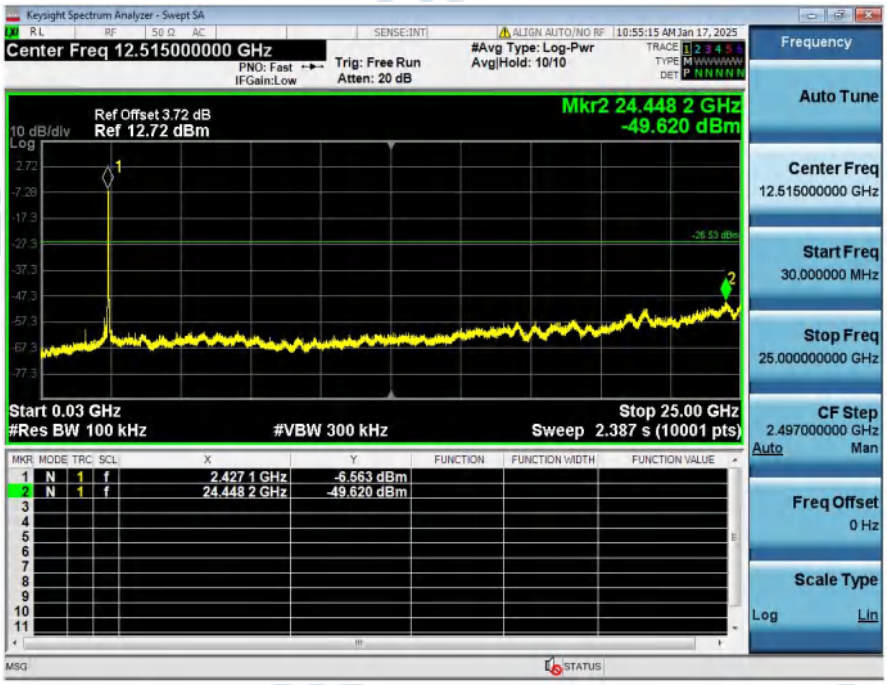


2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2422



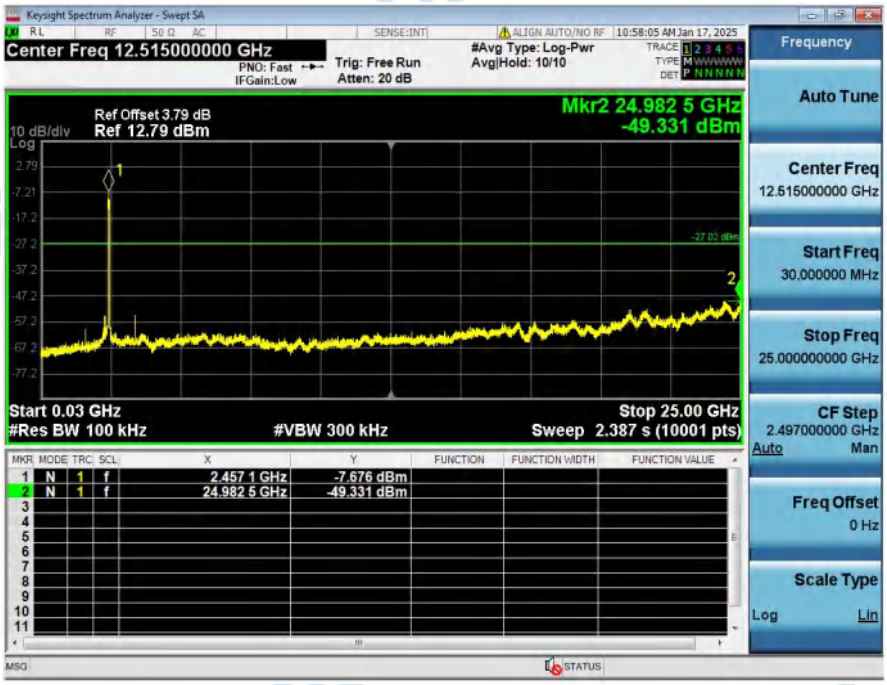
1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2437

2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2437



1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452

2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2452



********** End of Report **********