

NCT260031370XE1-1
FCC_2.4G_WIFI (Part15.247) Test Data
FCC ID:2BUVM-CT01

Table of Contents

1. -6dB Bandwidth	2
2. 99% Occupied Bandwidth	9
3. Duty Cycle	16
4. MAX. Output Power	23
5. Power Spectral Density	24
6. Bandedge	31
7. Spurious Emission	39

1. -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.17	500	Pass
NVNT	ANT1	802.11b	2437.00	9.17	500	Pass
NVNT	ANT1	802.11b	2462.00	9.21	500	Pass
NVNT	ANT1	802.11g	2412.00	16.37	500	Pass
NVNT	ANT1	802.11g	2437.00	16.42	500	Pass
NVNT	ANT1	802.11g	2462.00	16.49	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.34	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.34	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.42	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	36.08	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.70	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.96	500	Pass



-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	11.931
NVNT	ANT1	802.11b	2437.00	12.245
NVNT	ANT1	802.11b	2462.00	12.047
NVNT	ANT1	802.11g	2412.00	17.881
NVNT	ANT1	802.11g	2437.00	19.625
NVNT	ANT1	802.11g	2462.00	18.001
NVNT	ANT1	802.11n(HT20)	2412.00	18.170
NVNT	ANT1	802.11n(HT20)	2437.00	19.352
NVNT	ANT1	802.11n(HT20)	2462.00	18.515
NVNT	ANT1	802.11n(HT40)	2422.00	37.537
NVNT	ANT1	802.11n(HT40)	2437.00	36.915
NVNT	ANT1	802.11n(HT40)	2452.00	37.034



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

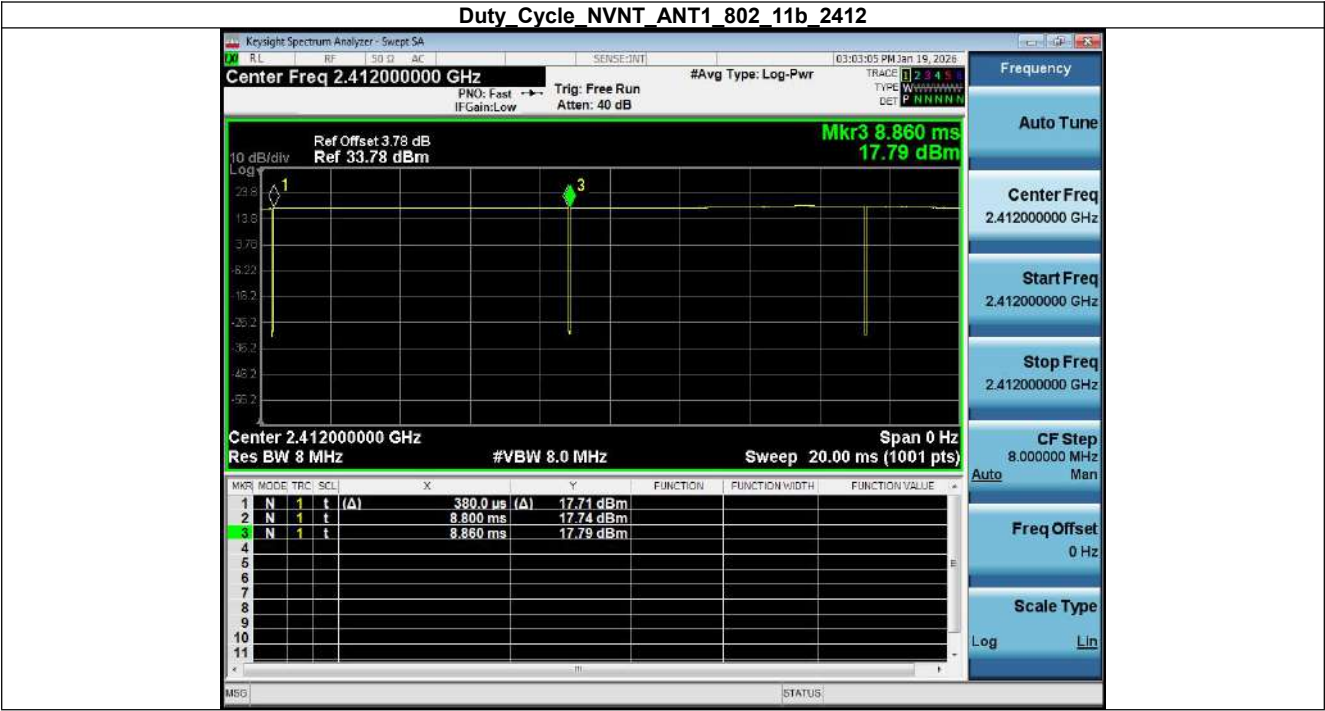


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



3. Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.53	0.00
NVNT	ANT1	802.11b	2437.00	99.53	0.00
NVNT	ANT1	802.11b	2462.00	99.53	0.00
NVNT	ANT1	802.11g	2412.00	97.22	0.12
NVNT	ANT1	802.11g	2437.00	97.22	0.12
NVNT	ANT1	802.11g	2462.00	97.26	0.12
NVNT	ANT1	802.11n(HT20)	2412.00	98.36	0.00
NVNT	ANT1	802.11n(HT20)	2437.00	96.77	0.14
NVNT	ANT1	802.11n(HT20)	2462.00	98.36	0.00
NVNT	ANT1	802.11n(HT40)	2422.00	93.75	0.28
NVNT	ANT1	802.11n(HT40)	2437.00	93.75	0.28
NVNT	ANT1	802.11n(HT40)	2452.00	93.75	0.28



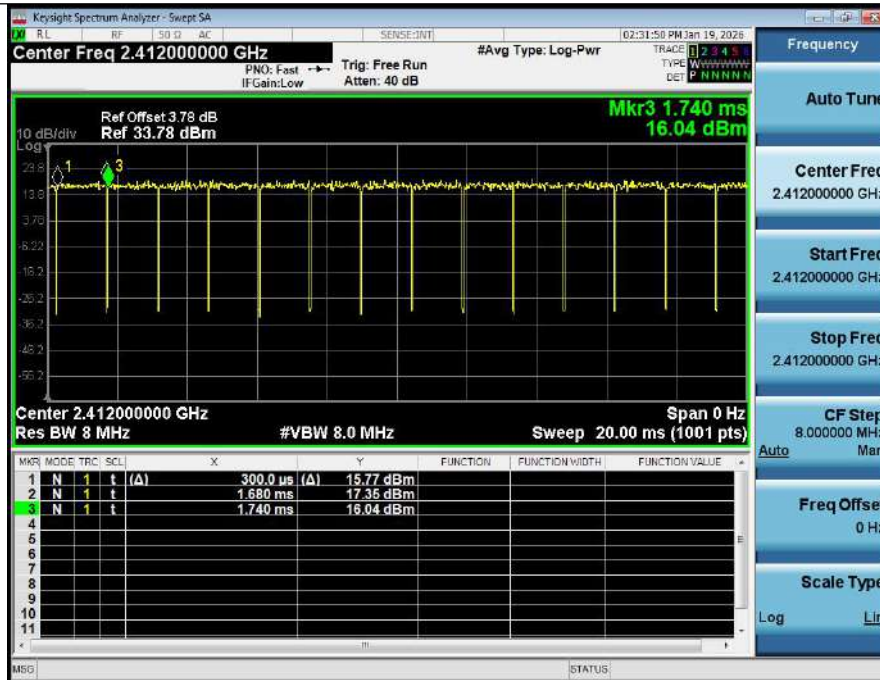
Duty Cycle NVNT ANT1 802_11b_2437



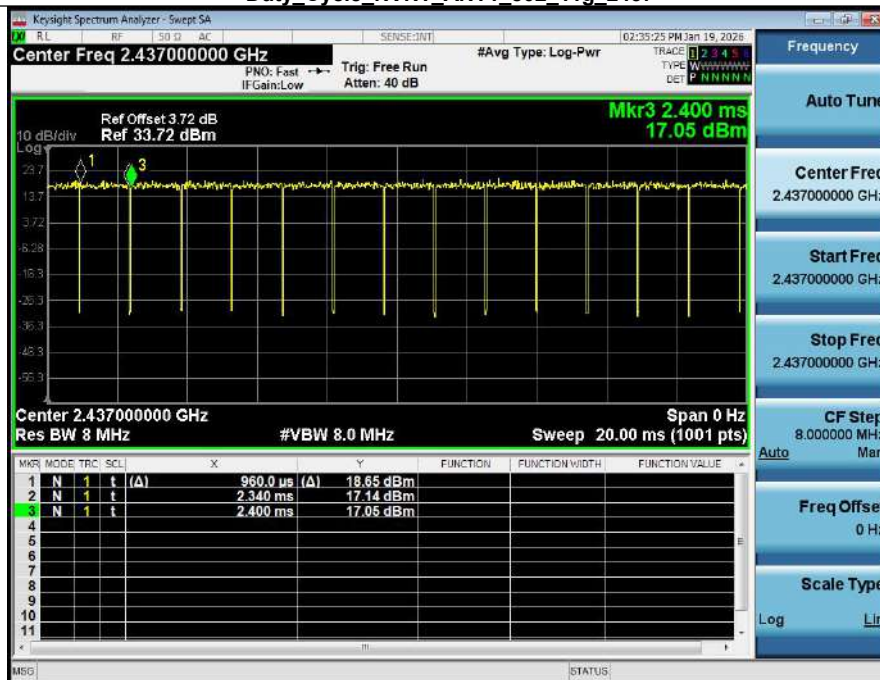
Duty_Cycle_NVNT_ANT1_802_11b_2462



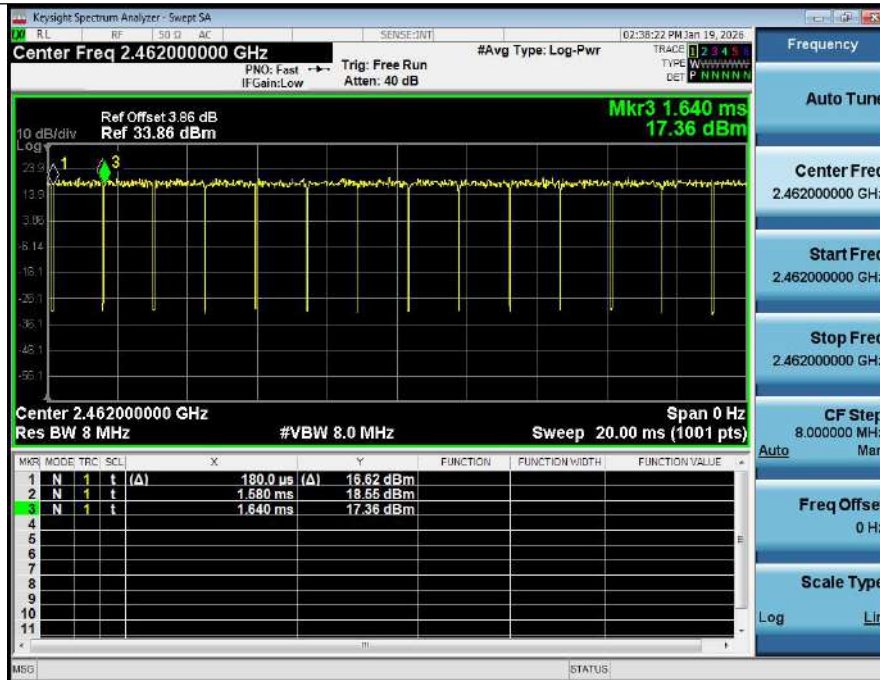
Duty_Cycle_NVNT_ANT1_802_11g_2412



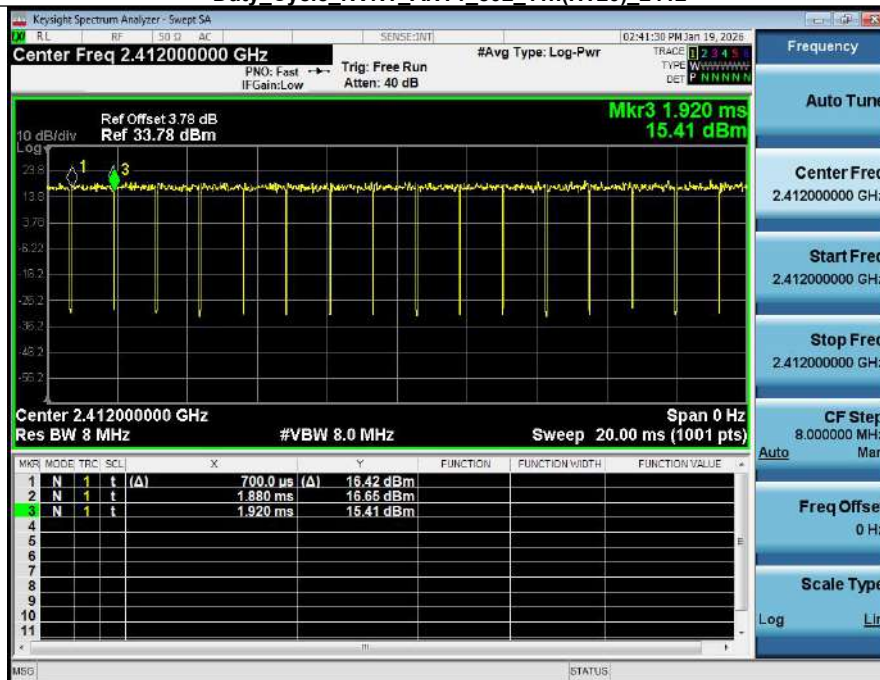
Duty_Cycle_NVNT_ANT1_802_11g_2437



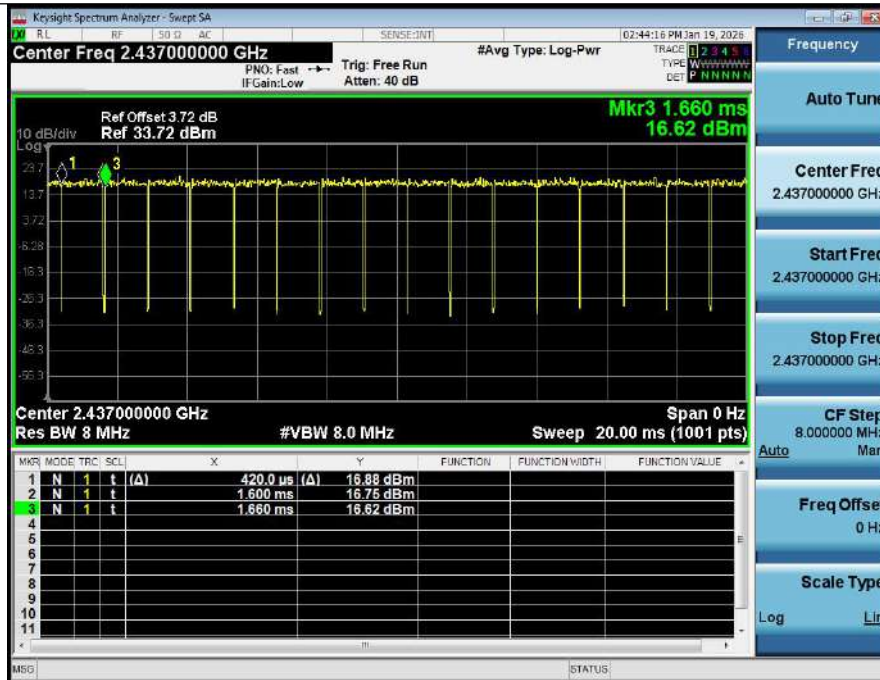
Duty_Cycle_NVNT_ANT1_802_11g_2462



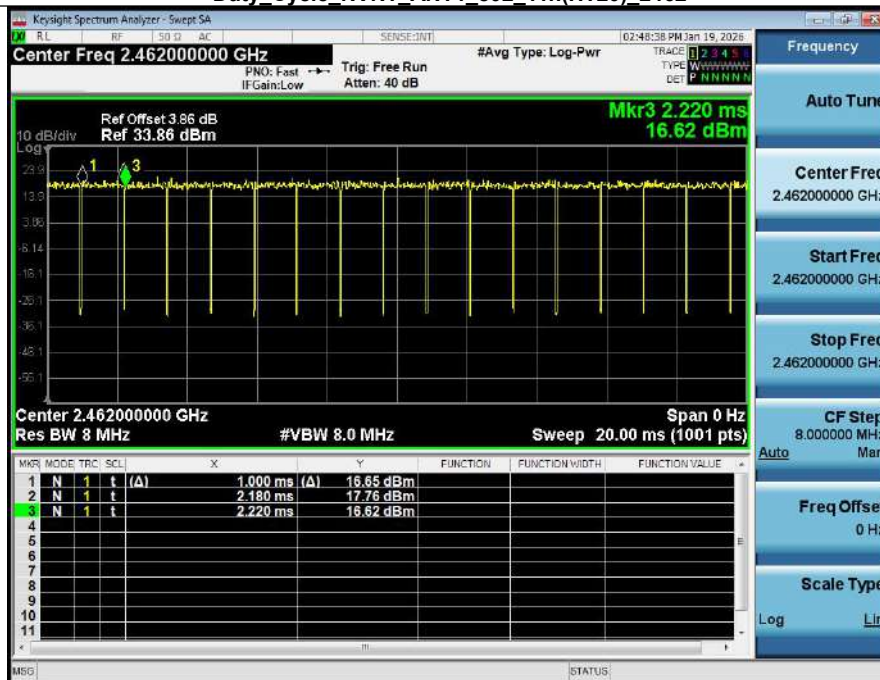
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



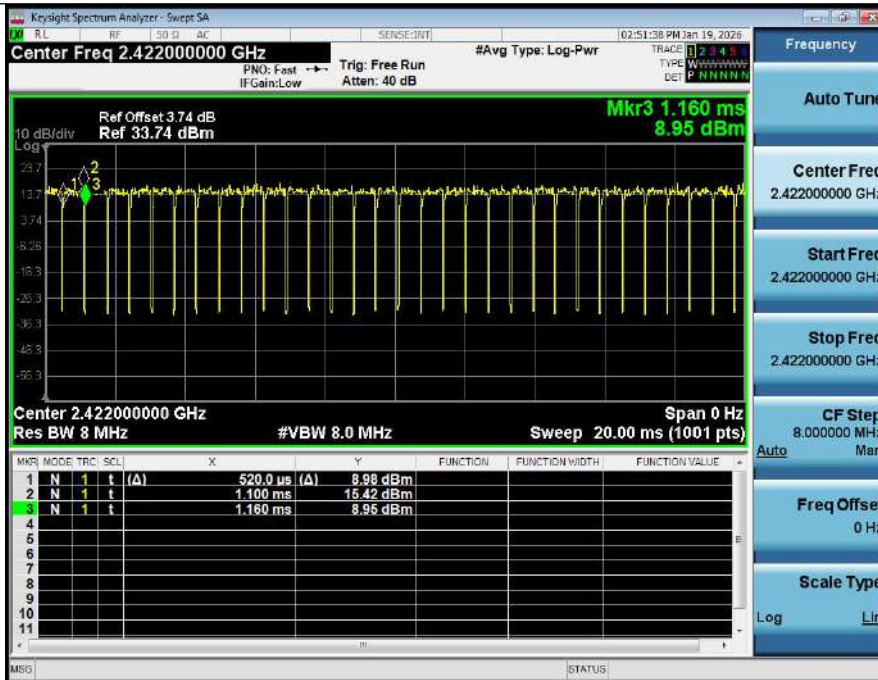
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



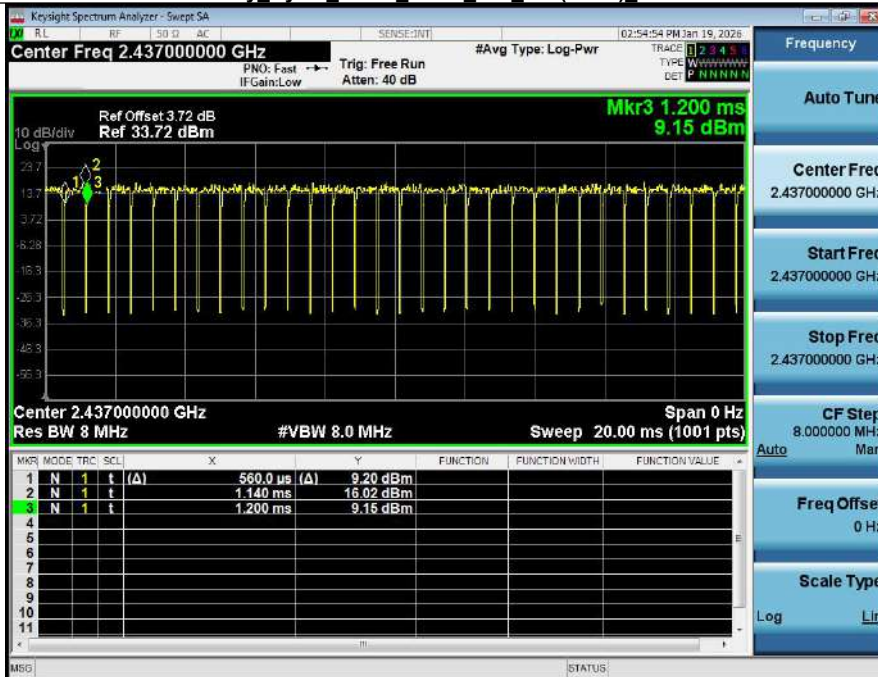
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462



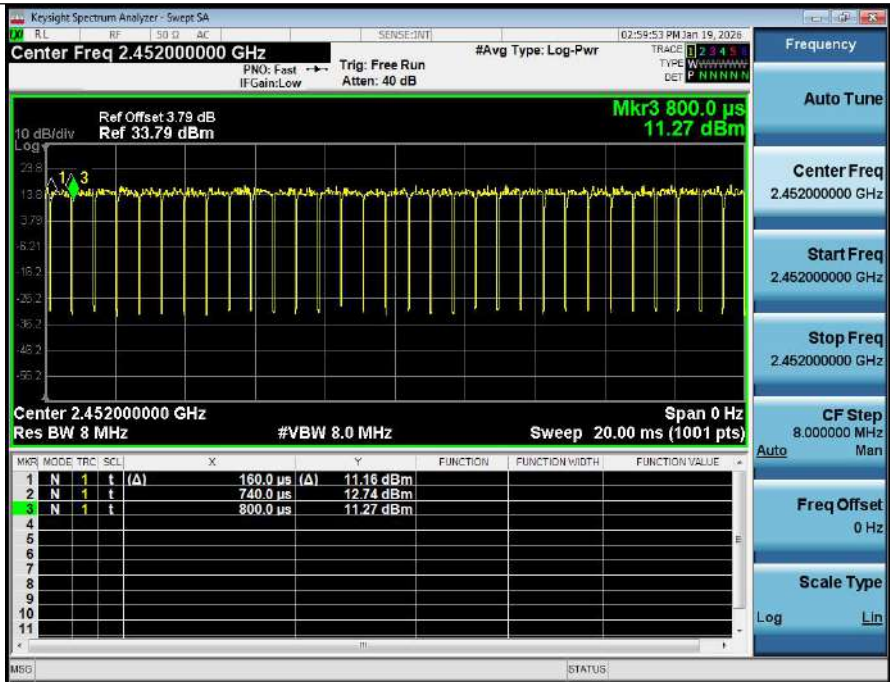
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2422



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)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	8.52	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	8.47	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	8.40	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	8.21	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	7.90	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	7.88	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	7.84	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	7.76	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	7.68	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	6.91	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	6.90	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	6.69	30	Pass

5. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD(dBm/30kHz)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	1.78	-8.22	8	Pass
NVNT	ANT1	802.11b	2437.00	2.88	-7.12	8	Pass
NVNT	ANT1	802.11b	2462.00	4.53	-5.47	8	Pass
NVNT	ANT1	802.11g	2412.00	-2.05	-12.05	8	Pass
NVNT	ANT1	802.11g	2437.00	-0.69	-10.69	8	Pass
NVNT	ANT1	802.11g	2462.00	-1.09	-11.09	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-1.68	-11.68	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-1.02	-11.02	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-0.82	-10.82	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-4.97	-14.97	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-4.60	-14.60	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-4.35	-14.35	8	Pass



Power_Spectral_Density_NVNT_ANT1_802_11b_2437



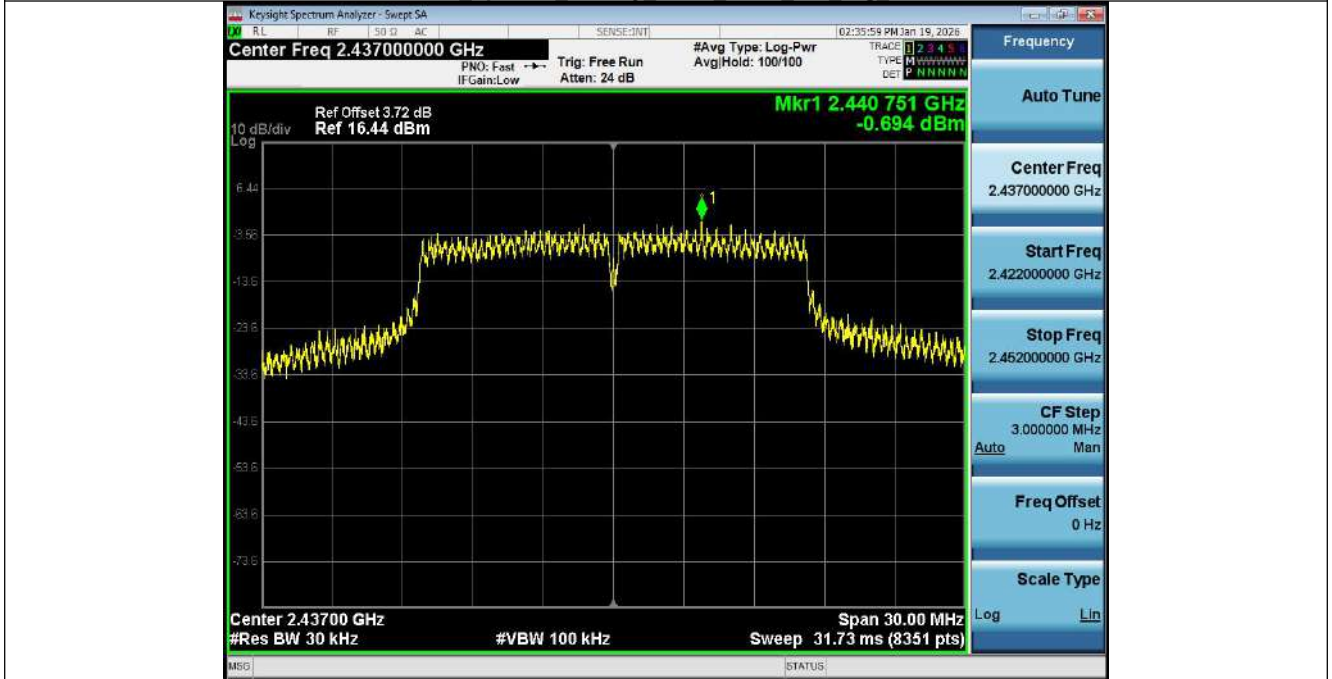
Power_Spectral_Density_NVNT_ANT1_802_11b_2462



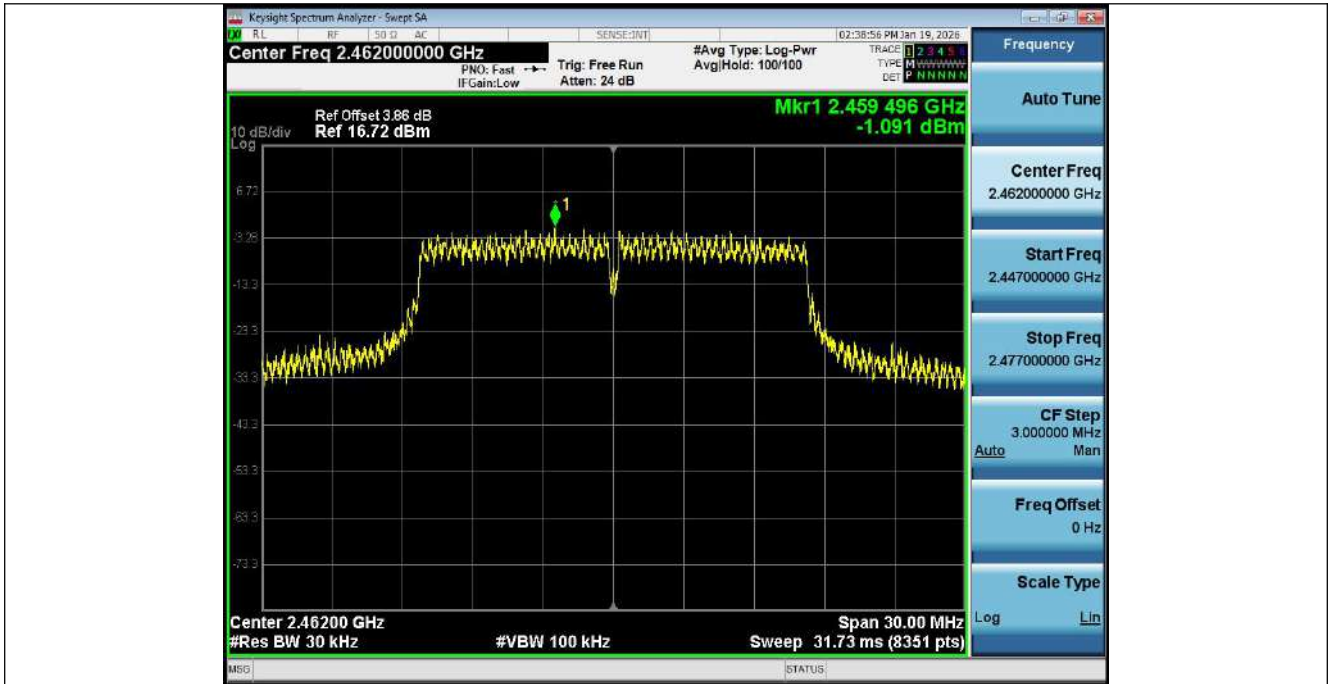
Power_Spectral_Density_NVNT_ANT1_802_11g_2412



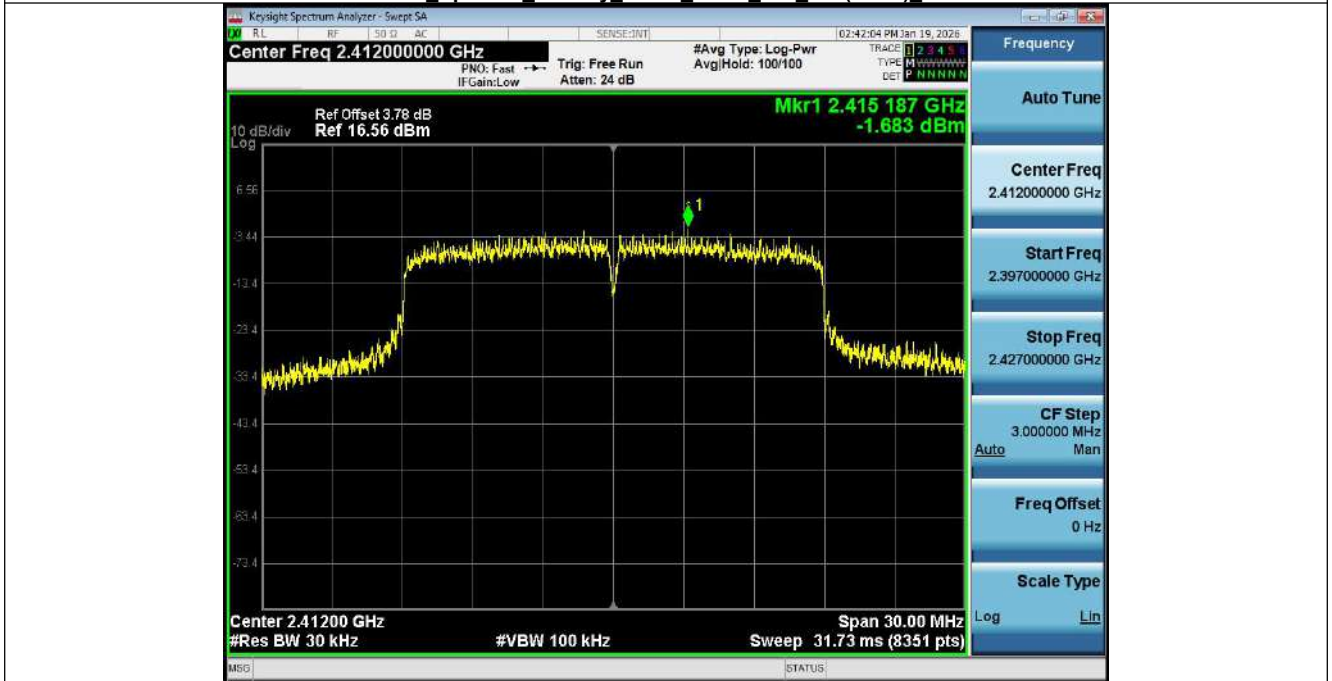
Power_Spectral_Density_NVNT_ANT1_802_11g_2437



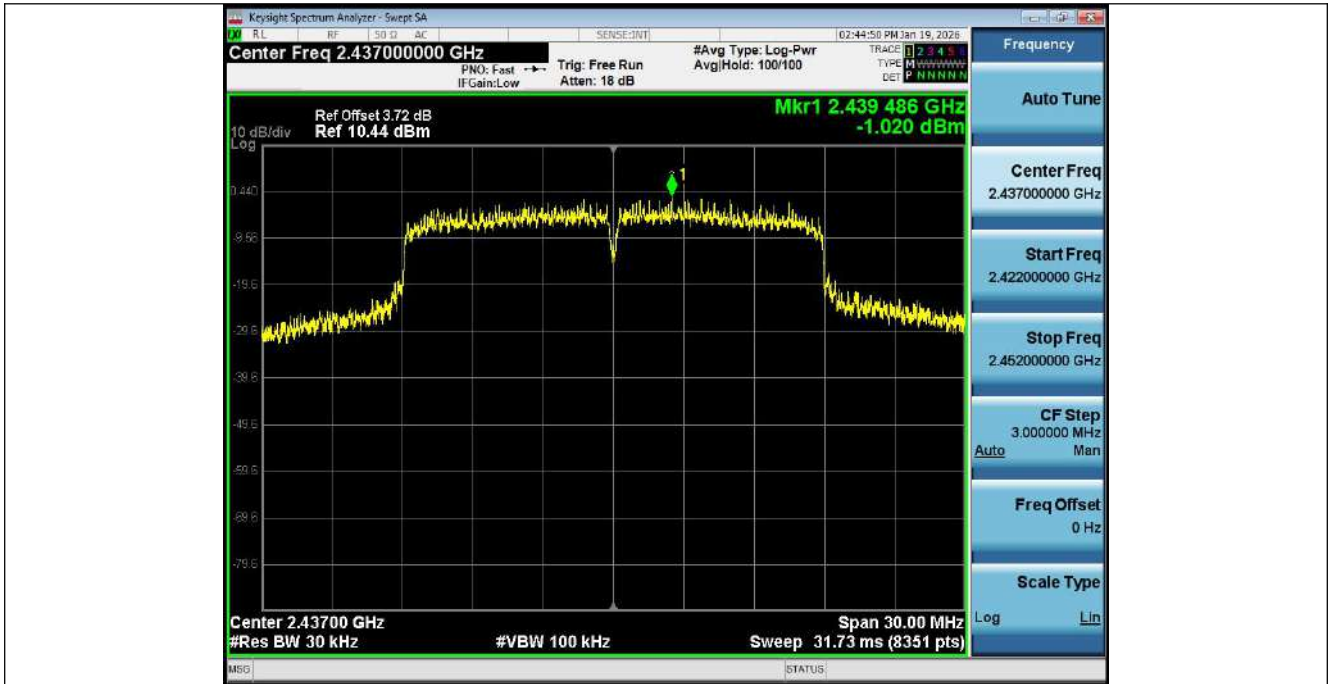
Power_Spectral_Density_NVNT_ANT1_802_11g_2462



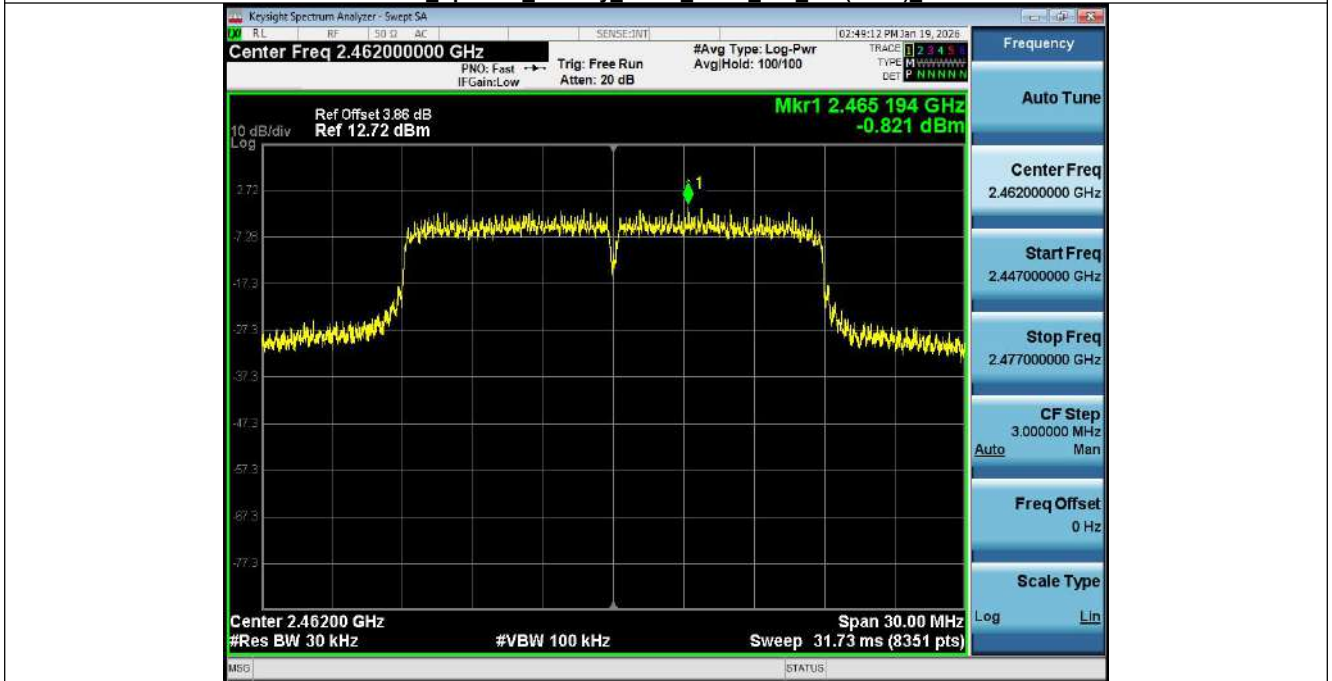
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412



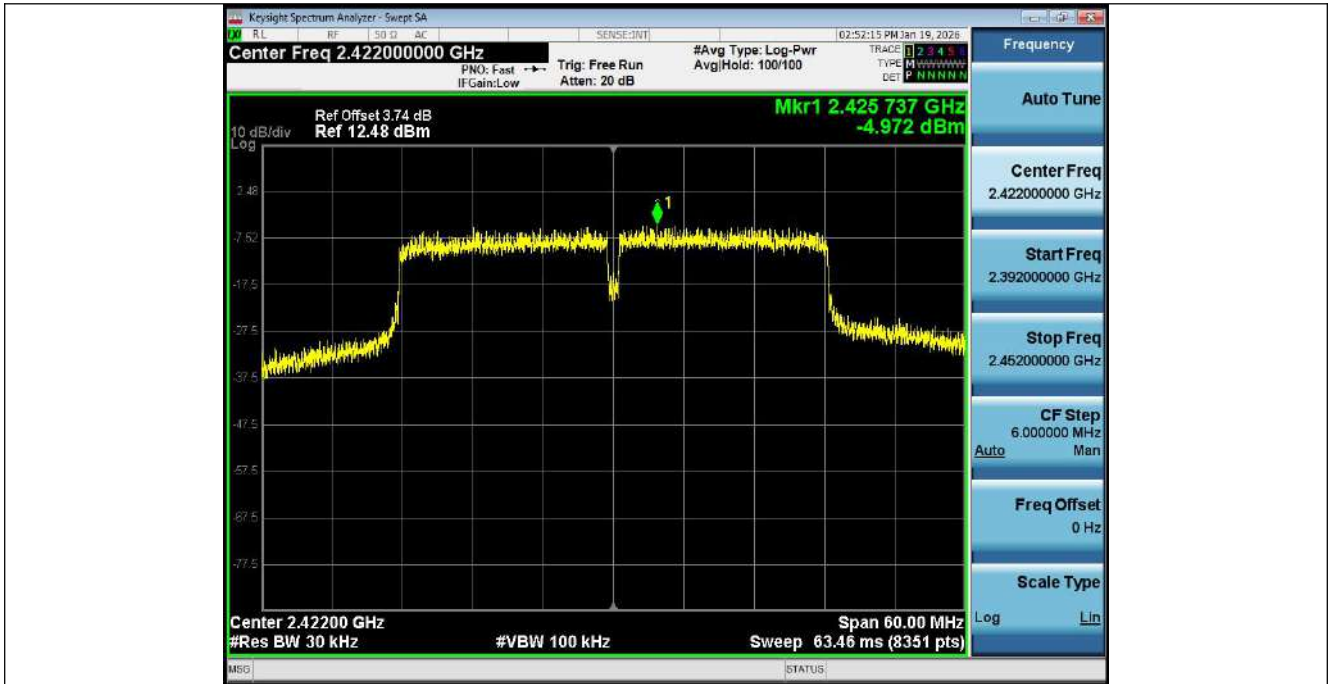
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437



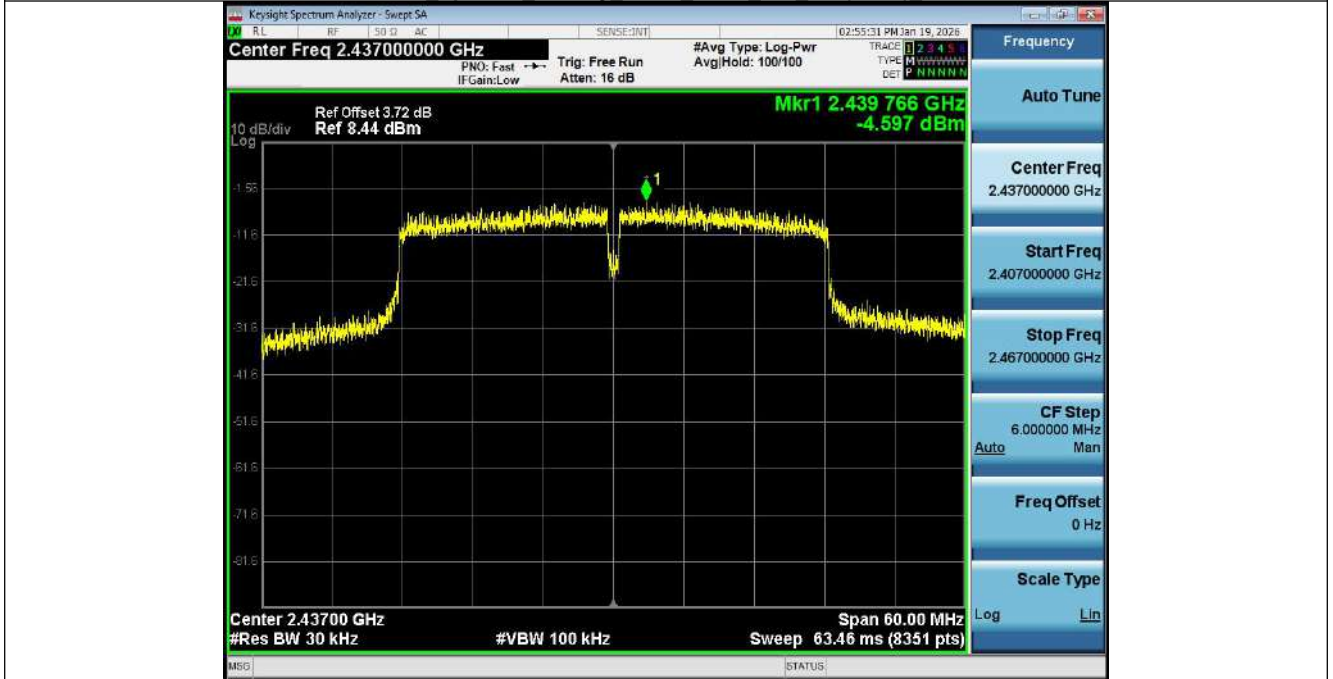
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2462



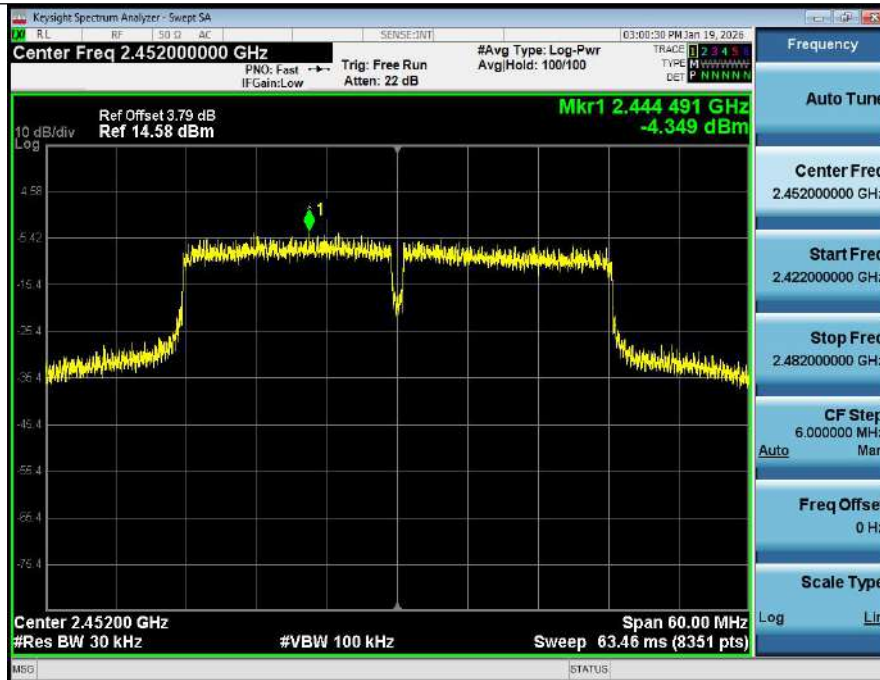
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2422



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	2399.936	5.204	-37.929	-14.796	Pass
NVNT	ANT1	802.11b	2462.00	2484.592	6.324	-54.418	-13.676	Pass
NVNT	ANT1	802.11g	2412.00	2398.816	2.443	-24.669	-17.557	Pass
NVNT	ANT1	802.11g	2462.00	2483.536	3.584	-35.067	-16.416	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.488	1.921	-24.199	-18.079	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.536	3.266	-33.342	-16.734	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.232	0.620	-25.279	-19.380	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2483.816	0.704	-29.339	-19.296	Pass



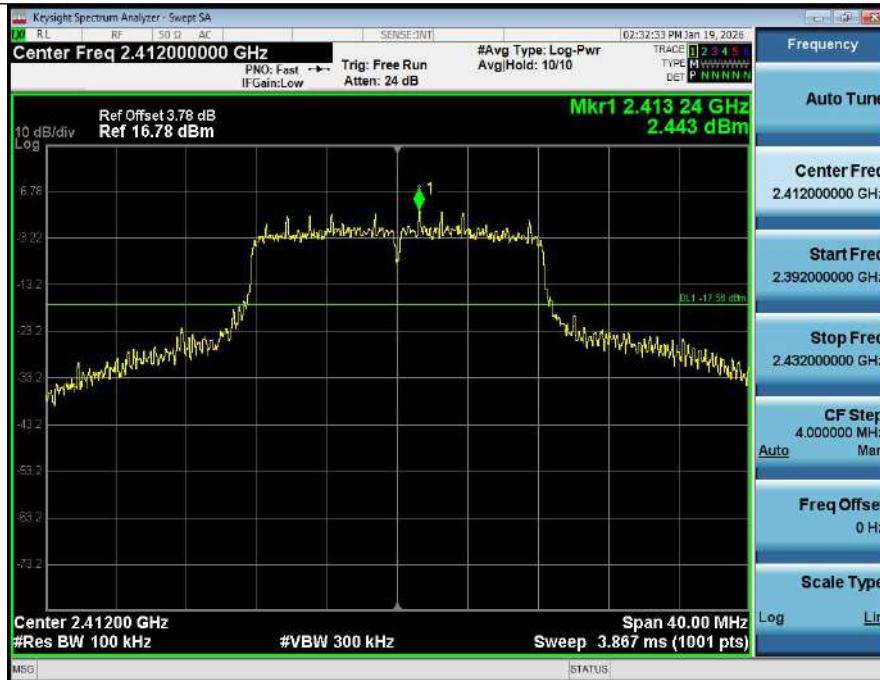
1 Reference_Level_NVNT_ANT1_802_11b_2462



2_Bandedge_NVNT_ANT1_802_11b_2462



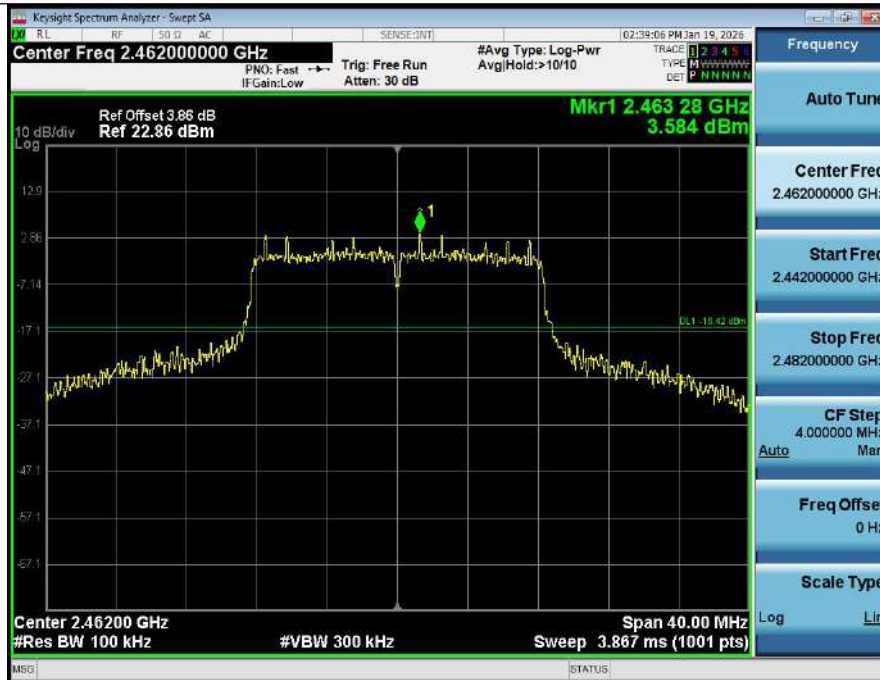
1_Reference_Level_NVNT_ANT1_802_11g_2412



2_Bandedge_NVNT_ANT1_802_11g_2412



1_Reference_Level_NVNT_ANT1_802_11g_2462



2_Bandedge_NVNT_ANT1_802_11g_2462



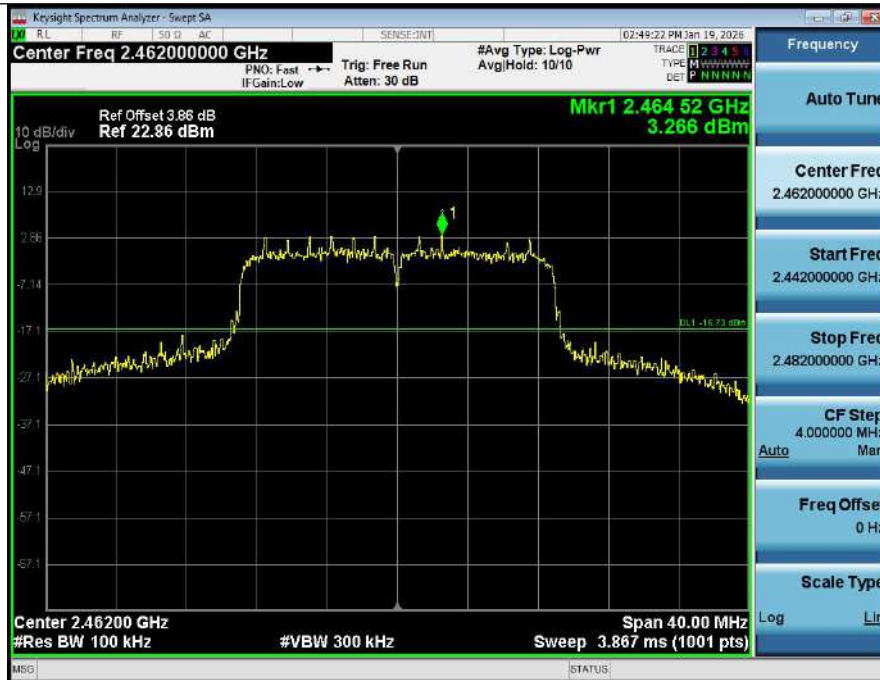
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



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



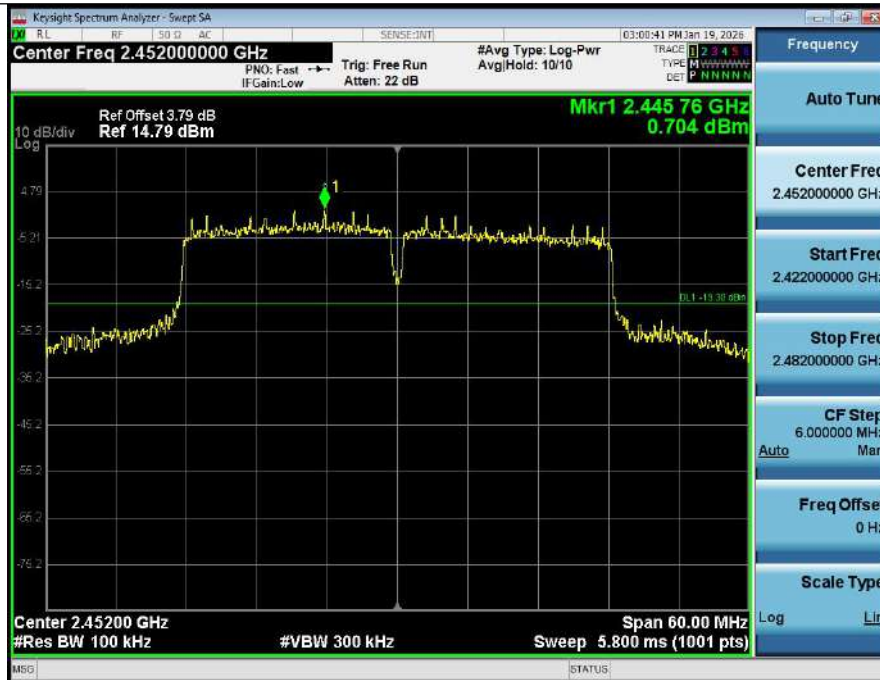
1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422



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



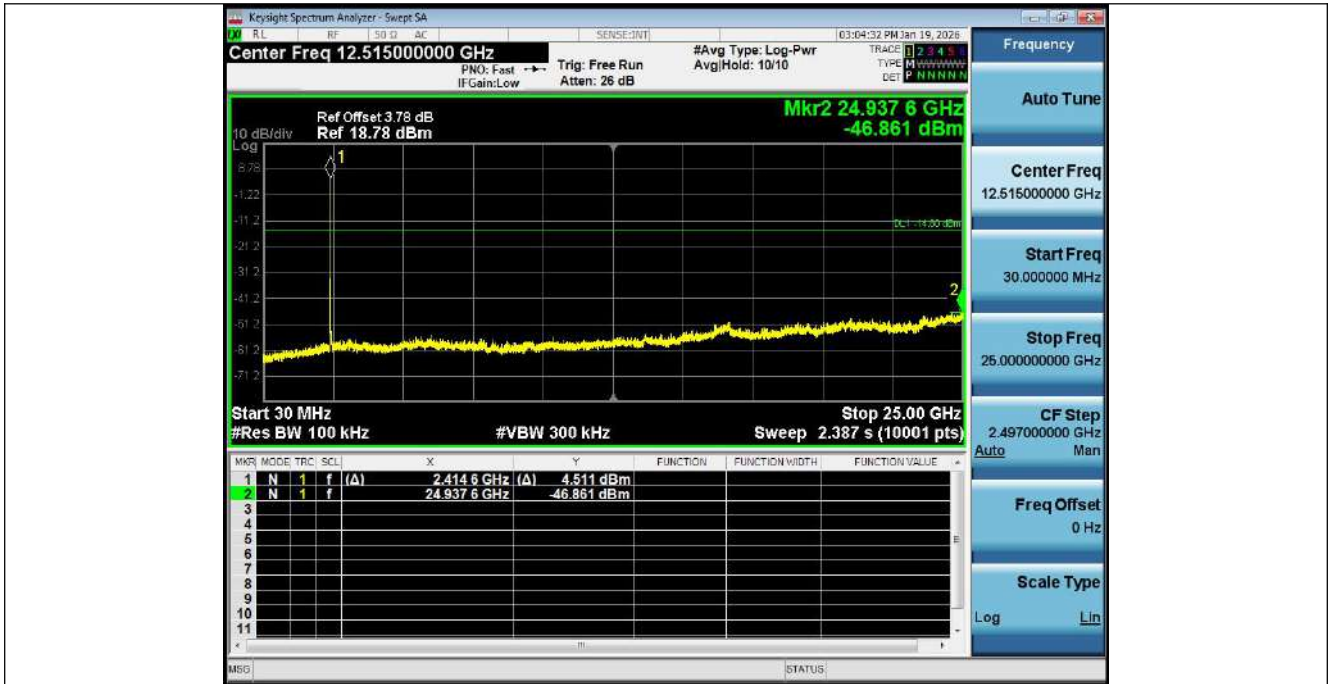
7. Spurious Emission

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	24937.575	5.204	-46.861	-14.796	Pass
NVNT	ANT1	802.11b	2437.00	24982.521	6.462	-43.585	-13.538	Pass
NVNT	ANT1	802.11b	2462.00	24930.084	6.324	-43.944	-13.676	Pass
NVNT	ANT1	802.11g	2412.00	24847.683	2.443	-48.438	-17.557	Pass
NVNT	ANT1	802.11g	2437.00	24940.072	3.502	-42.506	-16.498	Pass
NVNT	ANT1	802.11g	2462.00	25000.000	3.584	-41.582	-16.416	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24448.163	1.921	-47.183	-18.079	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24443.169	3.046	-42.502	-16.954	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24972.533	3.266	-42.682	-16.734	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24962.545	0.620	-50.364	-19.380	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24995.006	1.126	-44.419	-18.874	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	24960.048	0.704	-49.208	-19.296	Pass

1 Reference_Level_NVNT_ANT1_802_11b_2412



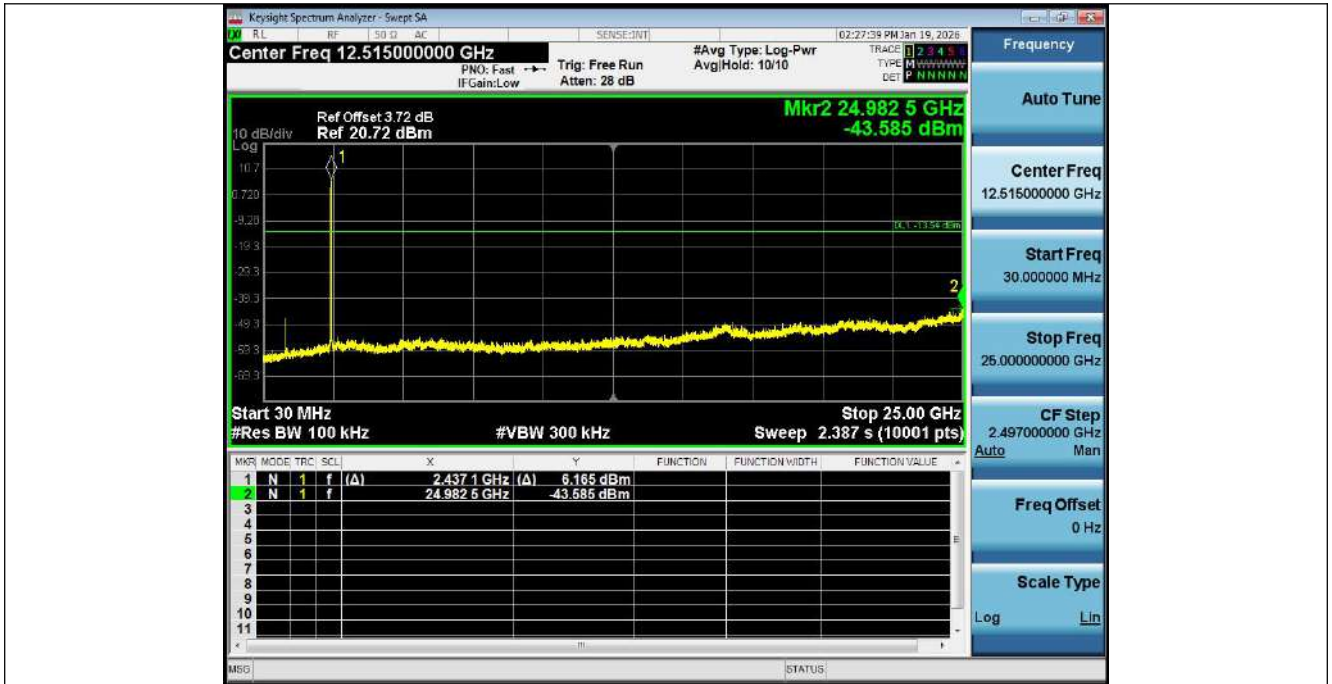
2 Spurious Emission_NVNT_ANT1_802_11b_2412



1 Reference Level NVNT ANT1 802 11b 2437



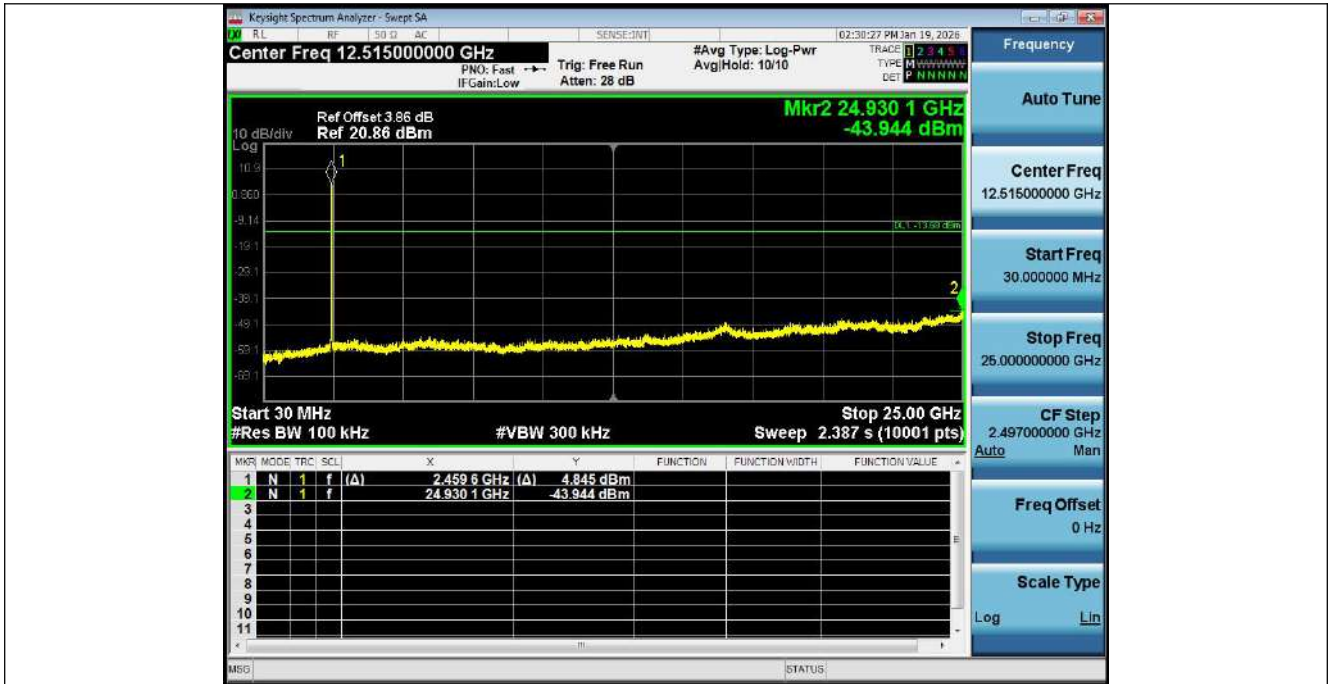
2 Spurious Emission NVNT ANT1 802 11b 2437



1 Reference Level NVNT_ANT1_802_11b_2462



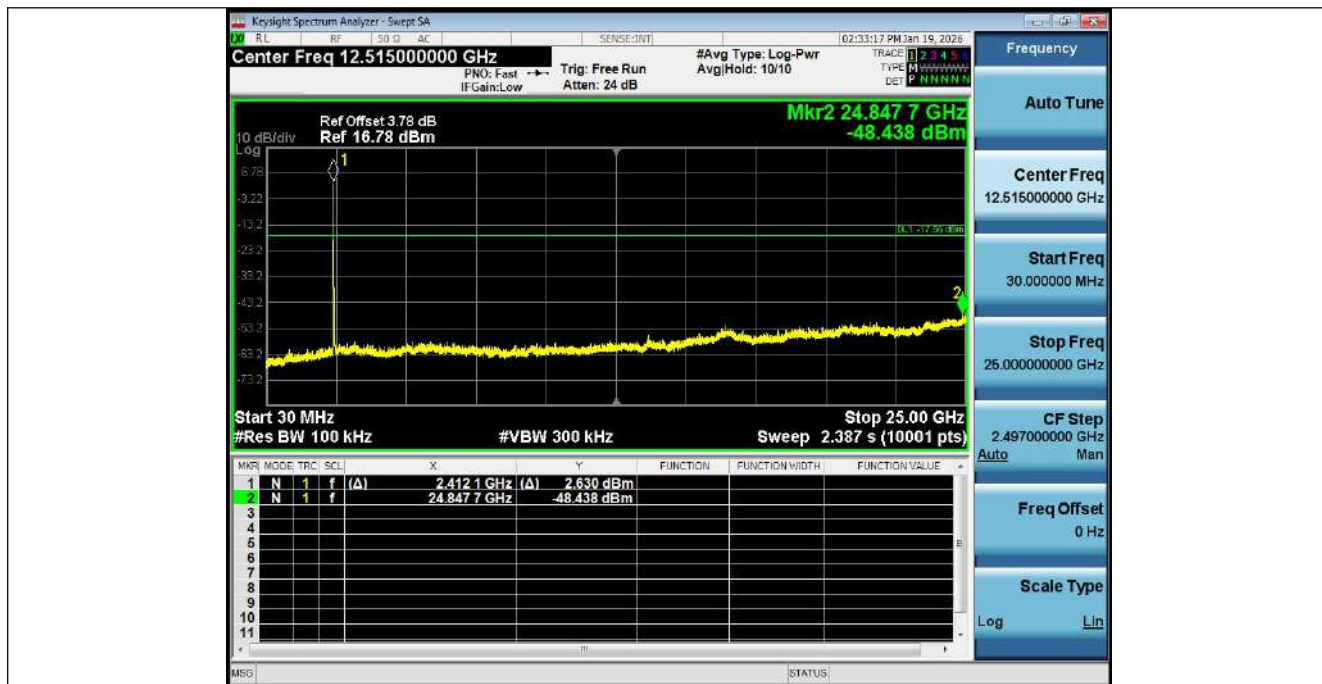
2 Spurious Emission_NVNT_ANT1_802_11b_2462



1 Reference Level NVNT_ANT1_802_11g_2412



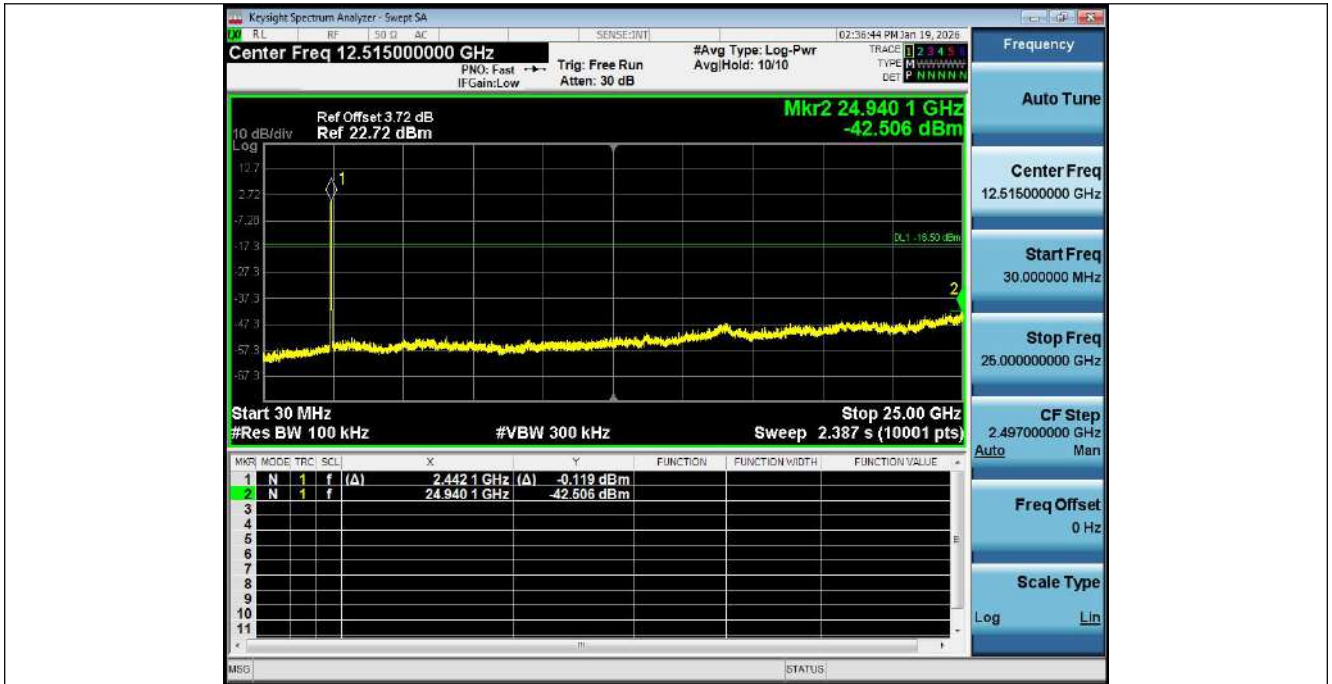
2 Spurious Emission NVNT_ANT1_802_11g_2412



1 Reference Level NVNT_ANT1_802_11g_2437



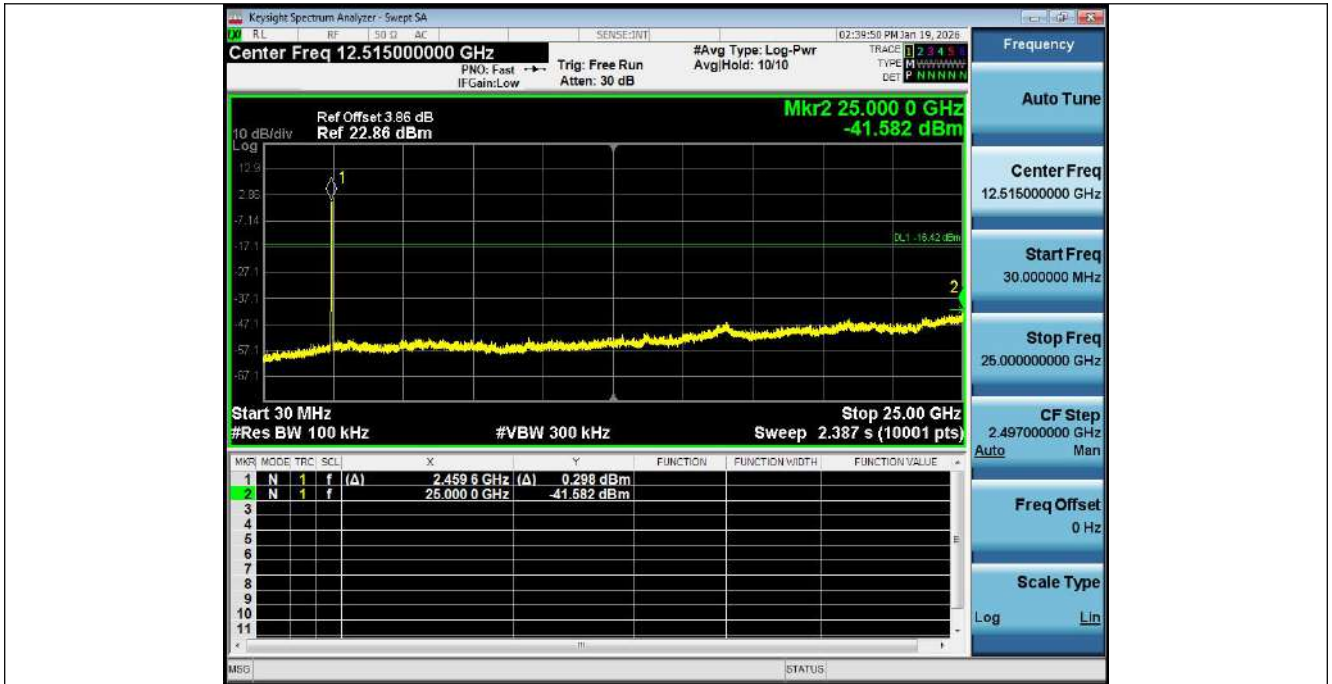
2 Spurious Emission_NVNT_ANT1_802_11g_2437



1 Reference Level NVNT_ANT1_802_11g_2462



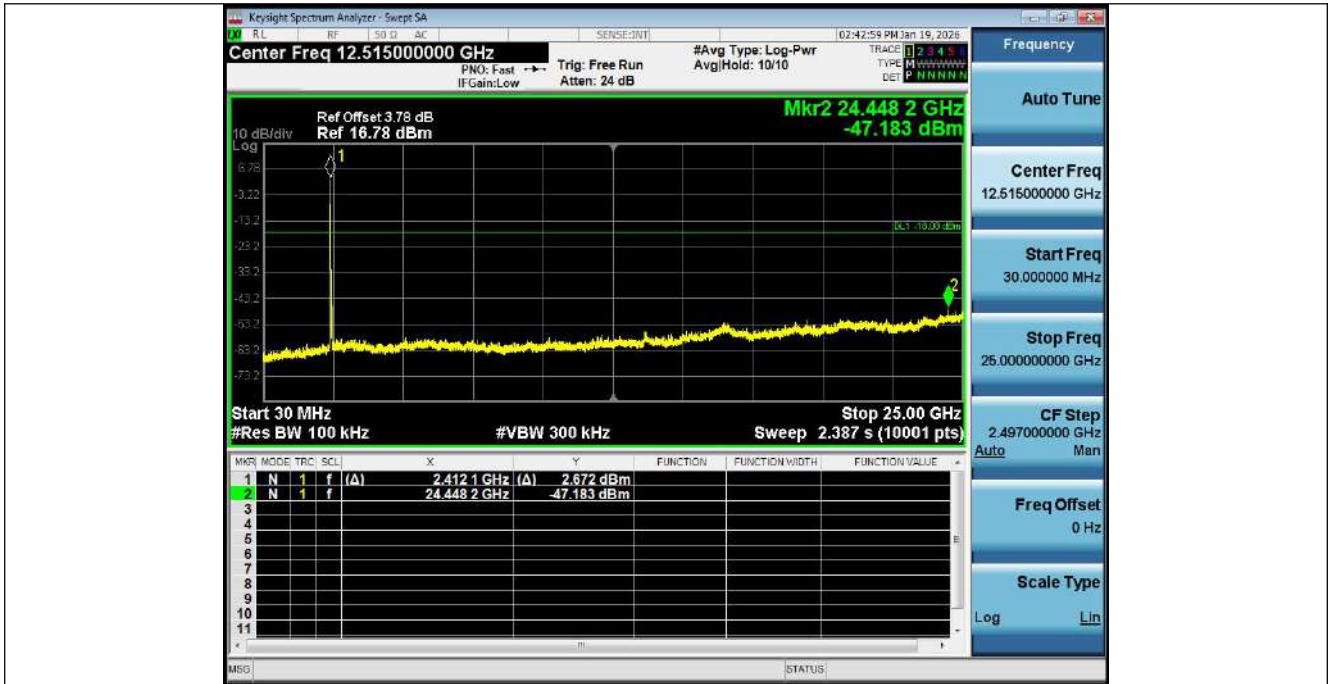
2 Spurious Emission NVNT_ANT1_802_11g_2462



1 Reference Level NVNT_ANT1_802_11n(HT20)_2412



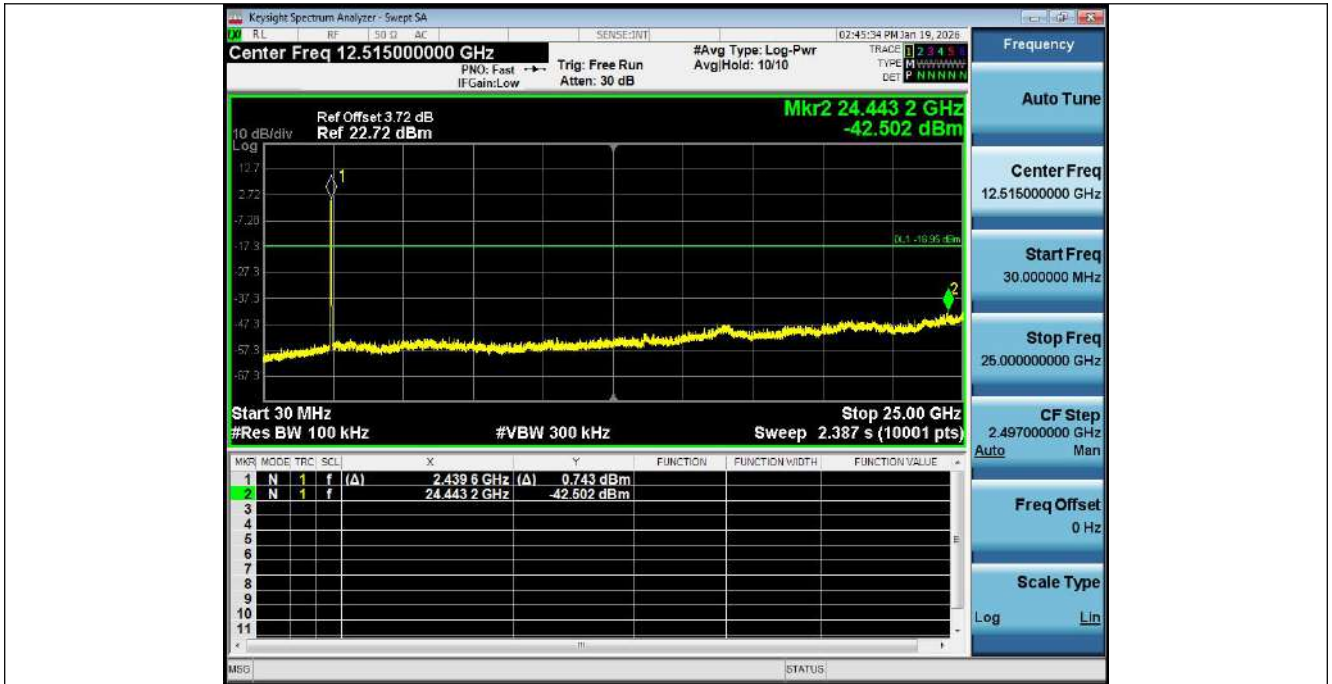
2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2412



1 Reference Level NVNT ANT1 802 11n(HT20) 2437



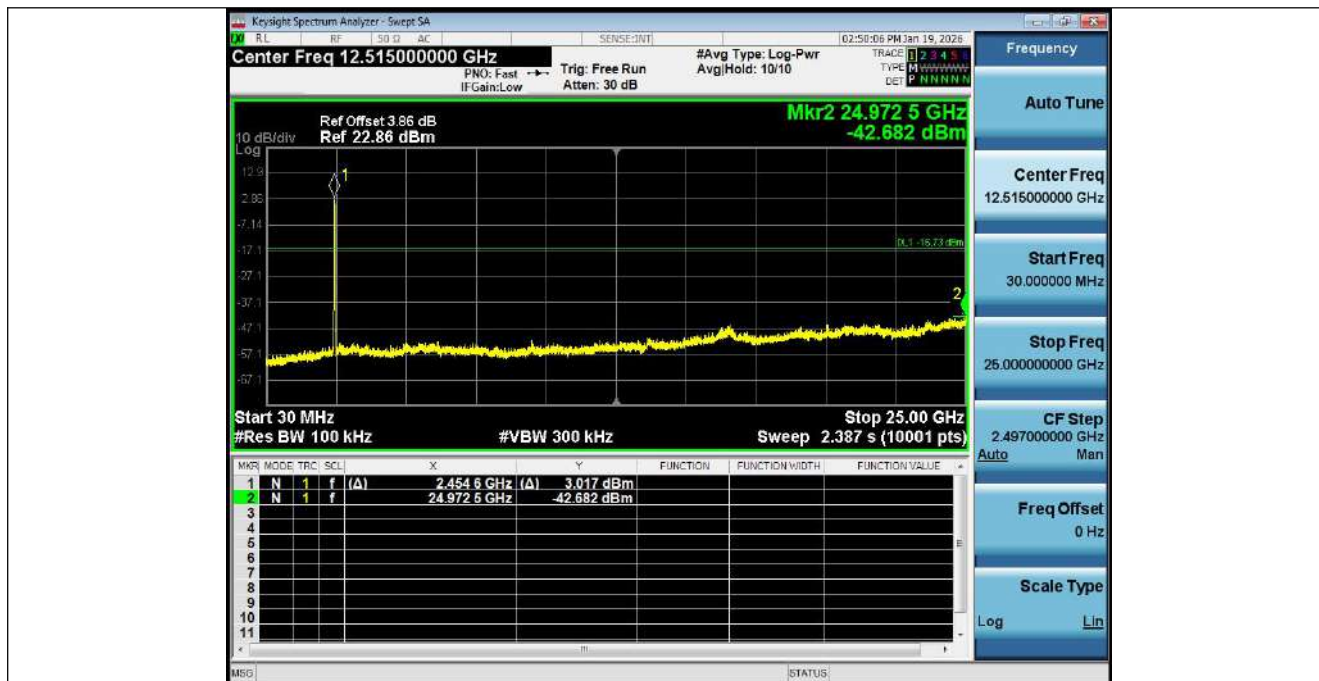
2 Spurious Emission NVNT ANT1 802 11n(HT20) 2437



1 Reference Level NVNT_ANT1_802_11n(HT20)_2462



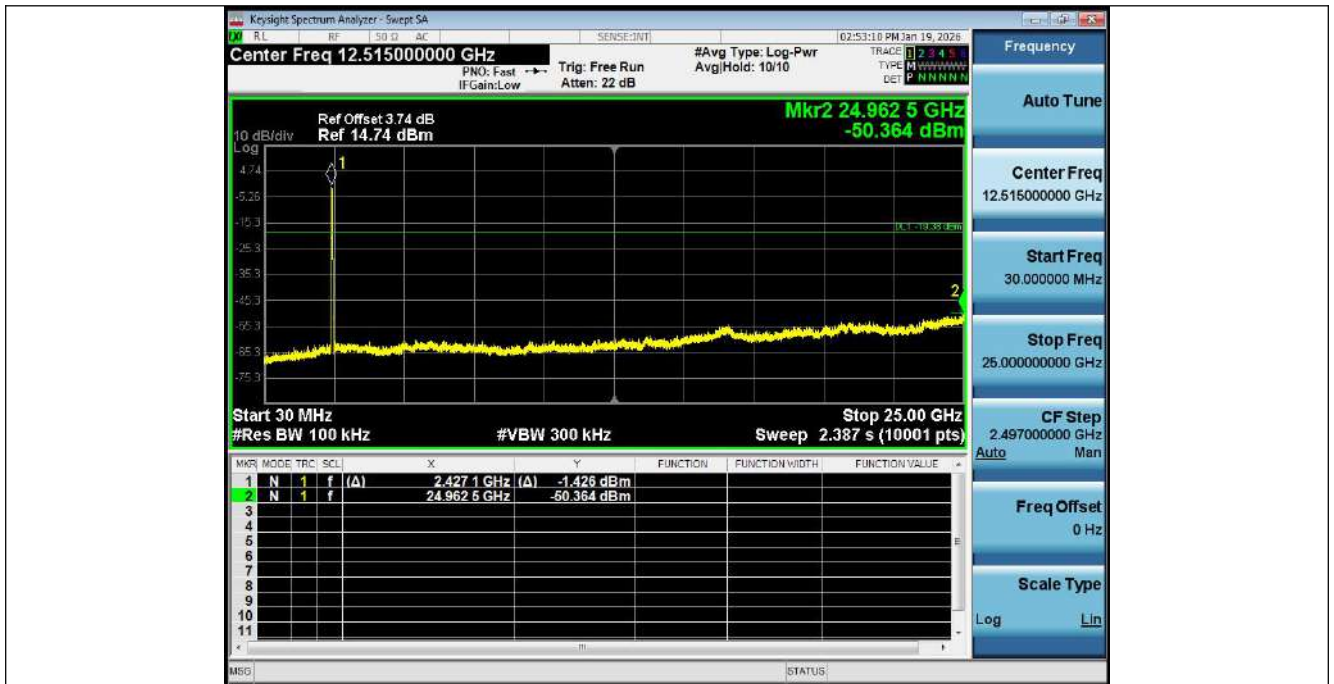
2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2462



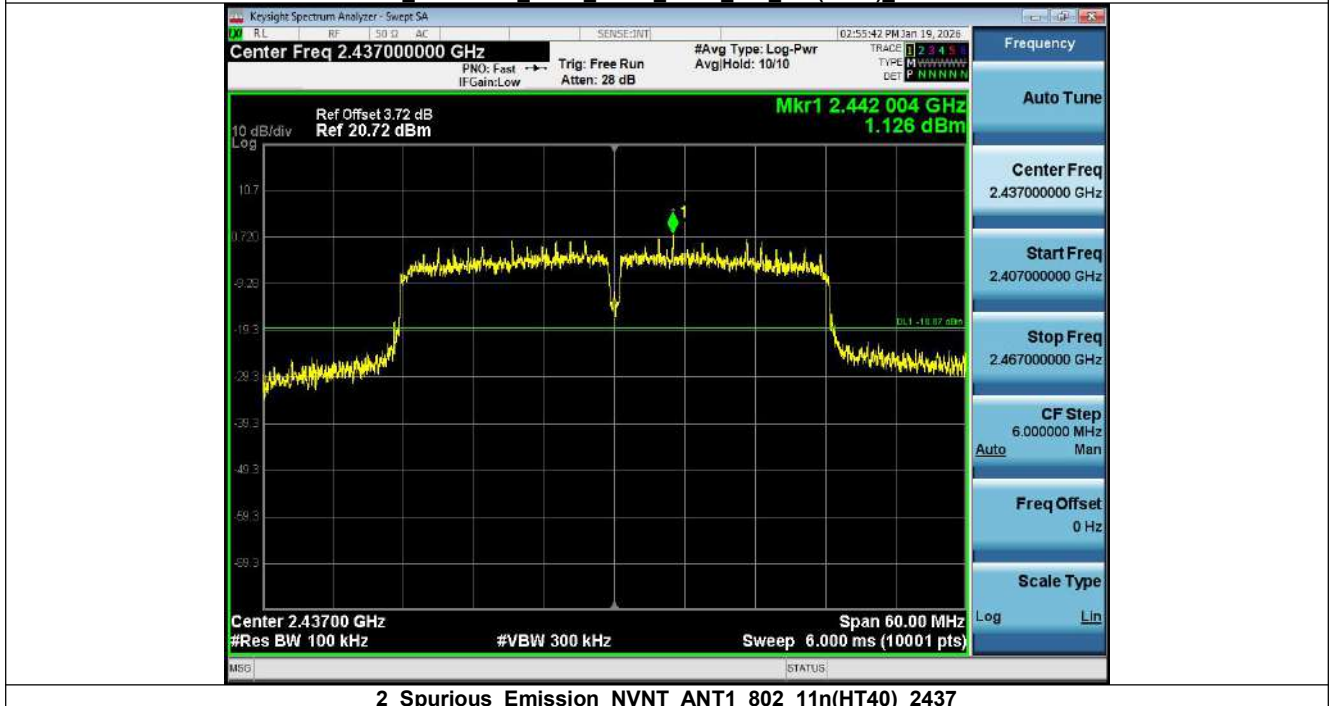
1 Reference Level NVNT_ANT1_802_11n(HT40)_2422



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

