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231122 FCC ID WIFI2.4

FCC_2.4G_WIFI (Part15.247) Test Data

1. -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	8.10	500	Pass
NVNT	ANT1	802.11b	2437.00	8.09	500	Pass
NVNT	ANT1	802.11b	2462.00	8.57	500	Pass
NVNT	ANT1	802.11g	2412.00	15.60	500	Pass
NVNT	ANT1	802.11g	2437.00	15.49	500	Pass
NVNT	ANT1	802.11g	2462.00	16.47	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.36	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	16.67	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.71	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	22.05	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	25.71	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	36.55	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	13.182
NVNT	ANT1	802.11b	2437.00	13.003
NVNT	ANT1	802.11b	2462.00	13.403
NVNT	ANT1	802.11g	2412.00	17.294
NVNT	ANT1	802.11g	2437.00	17.159
NVNT	ANT1	802.11g	2462.00	17.407
NVNT	ANT1	802.11n(HT20)	2412.00	18.165
NVNT	ANT1	802.11n(HT20)	2437.00	18.029
NVNT	ANT1	802.11n(HT20)	2462.00	18.199
NVNT	ANT1	802.11n(HT40)	2422.00	35.367
NVNT	ANT1	802.11n(HT40)	2437.00	35.885
NVNT	ANT1	802.11n(HT40)	2452.00	37.475



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

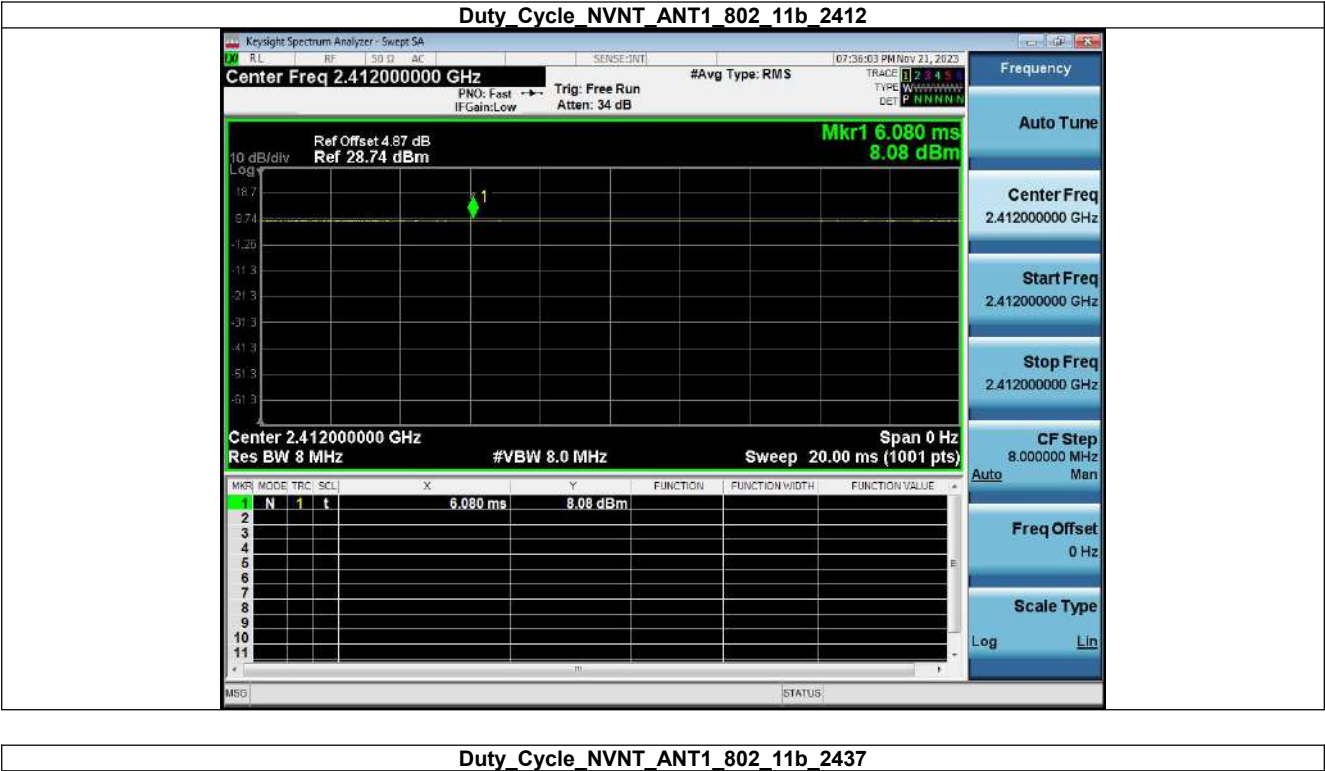


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



3. Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	100	0.00
NVNT	ANT1	802.11b	2437.00	100	0.00
NVNT	ANT1	802.11b	2462.00	100	0.00
NVNT	ANT1	802.11g	2412.00	100	0.00
NVNT	ANT1	802.11g	2437.00	100	0.00
NVNT	ANT1	802.11g	2462.00	100	0.00
NVNT	ANT1	802.11n(HT20)	2412.00	100	0.00
NVNT	ANT1	802.11n(HT20)	2437.00	100	0.00
NVNT	ANT1	802.11n(HT20)	2462.00	100	0.00
NVNT	ANT1	802.11n(HT40)	2422.00	100	0.00
NVNT	ANT1	802.11n(HT40)	2437.00	100	0.00
NVNT	ANT1	802.11n(HT40)	2452.00	100	0.00



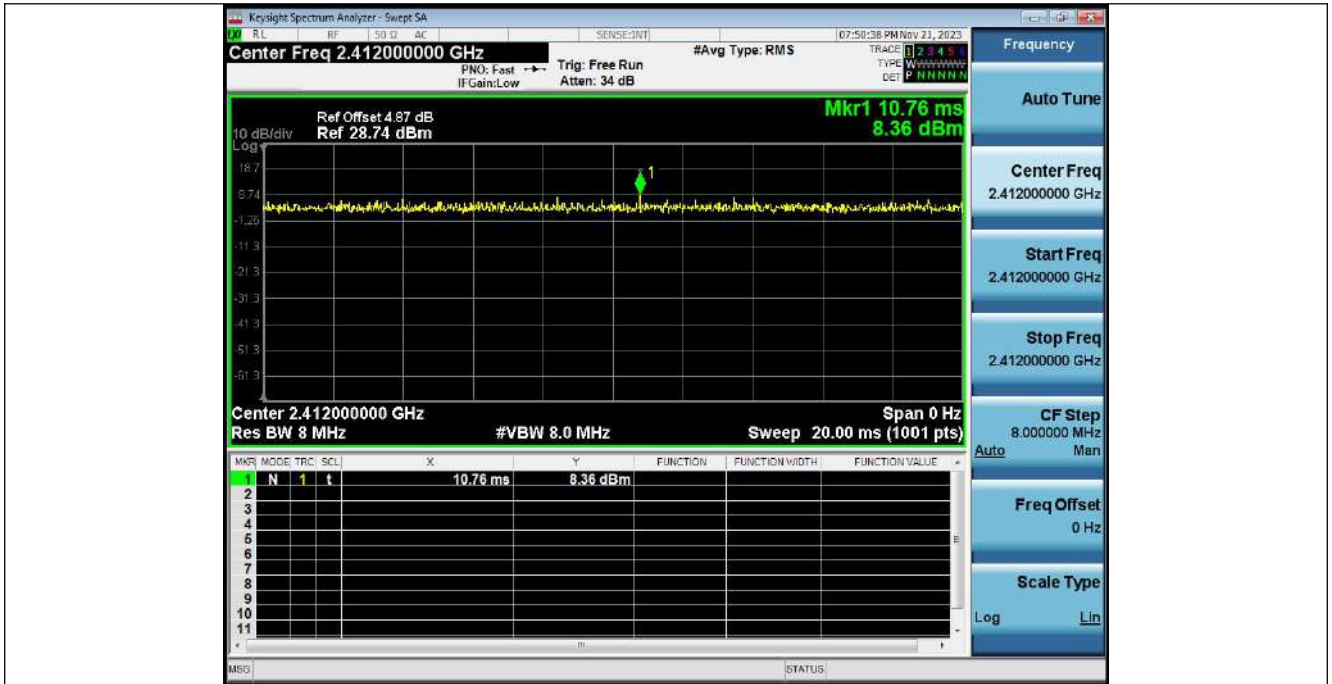
Duty Cycle NVNT ANT1 802 11b 2437



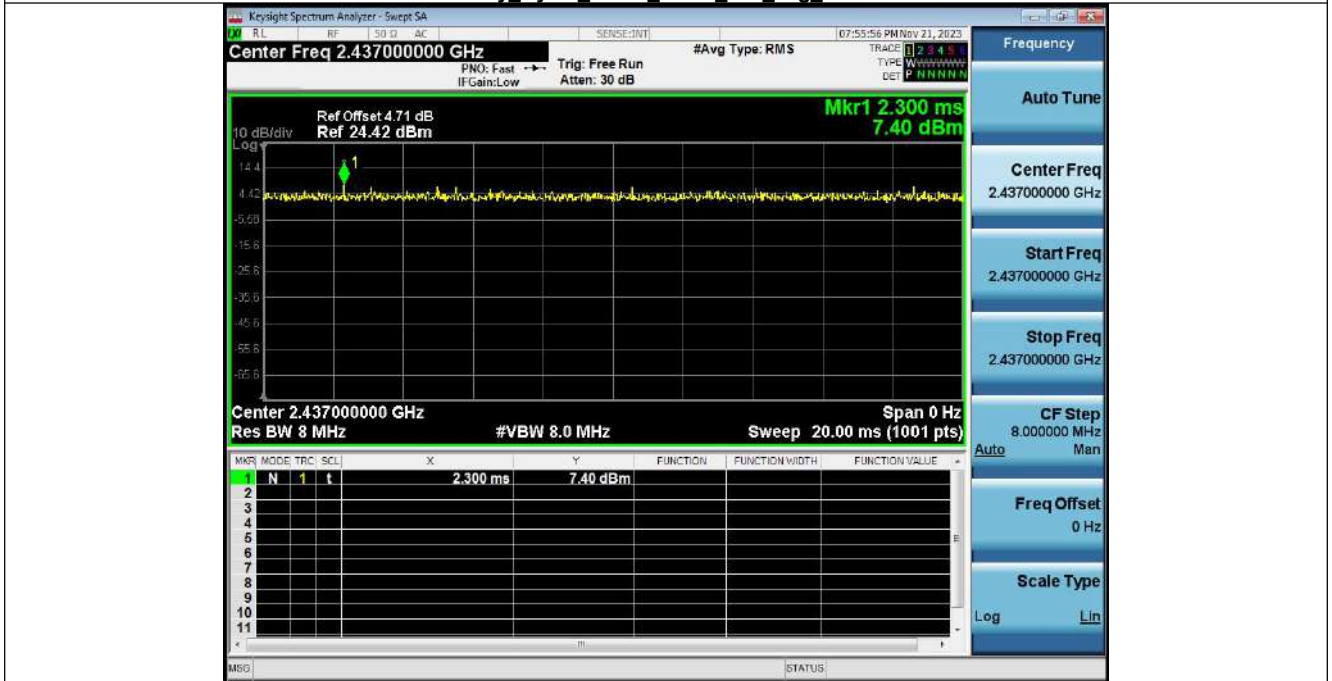
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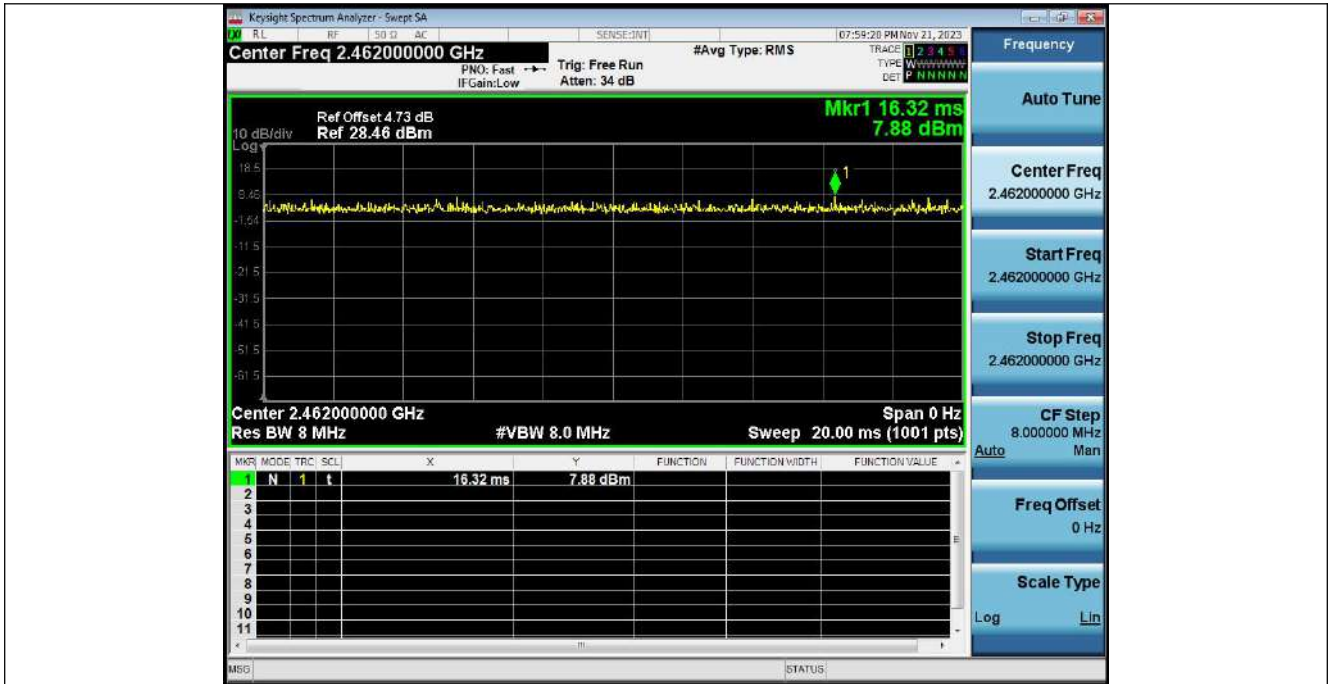
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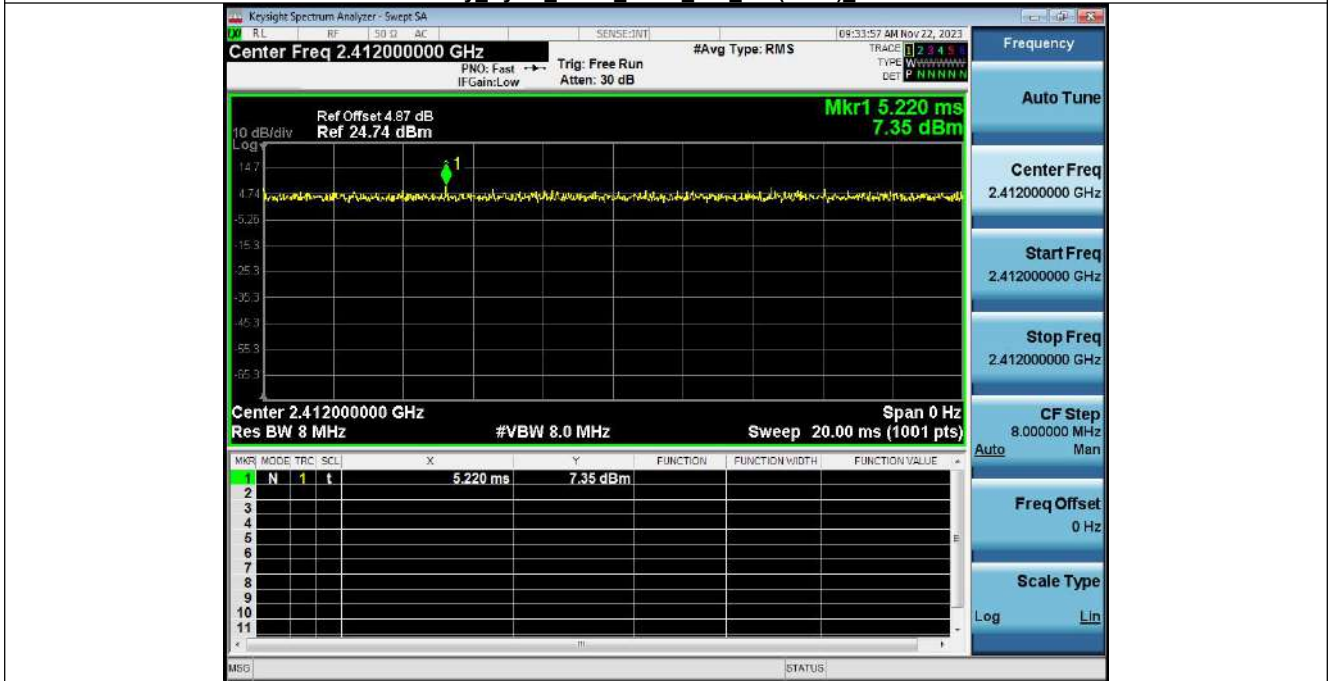
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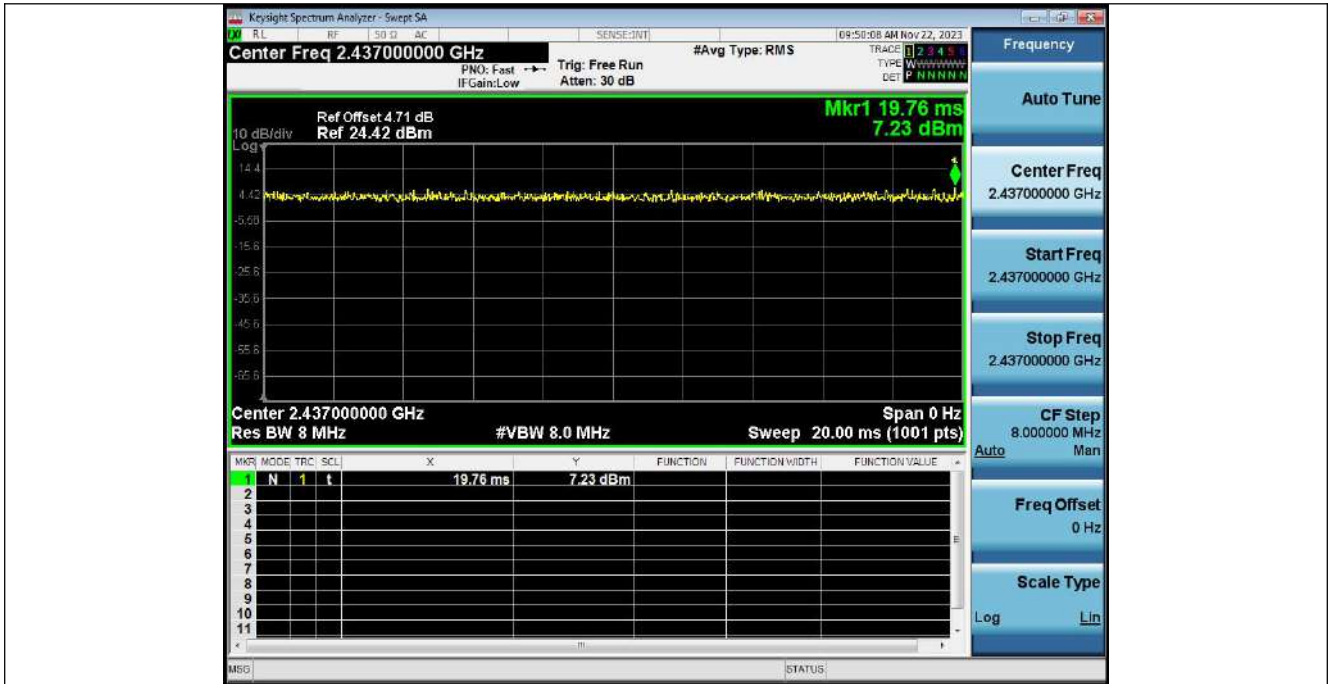
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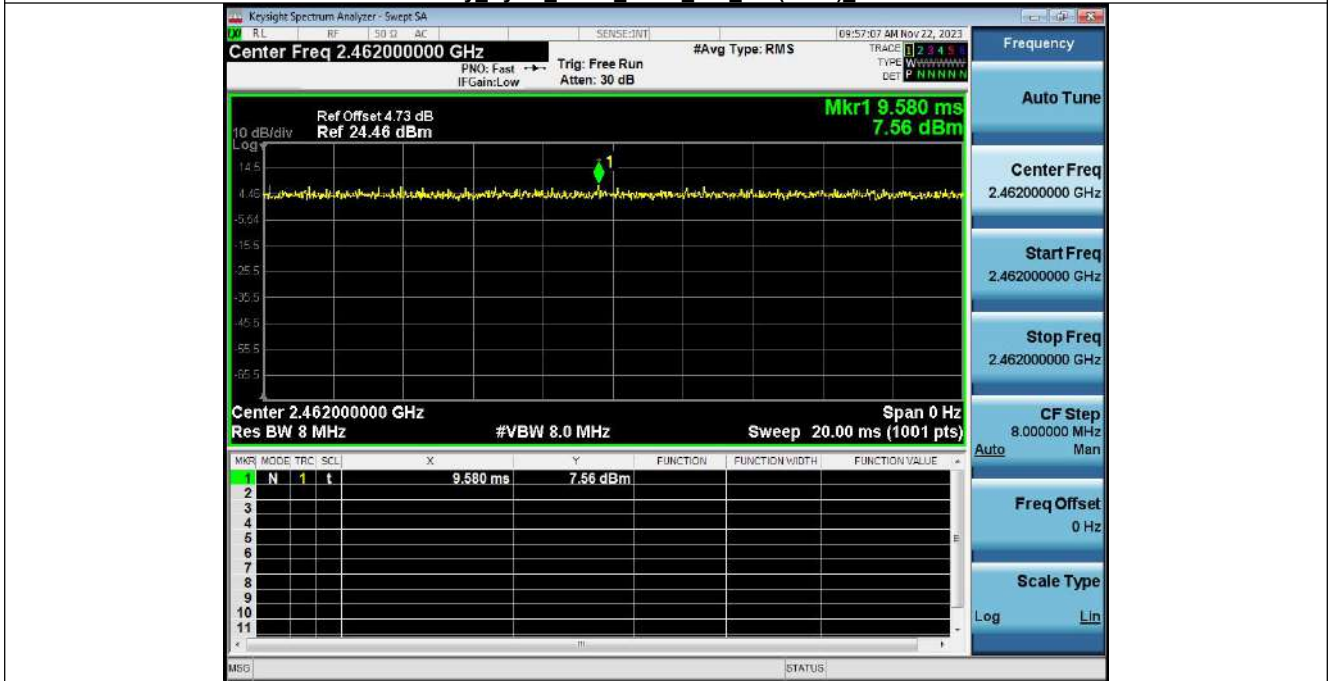
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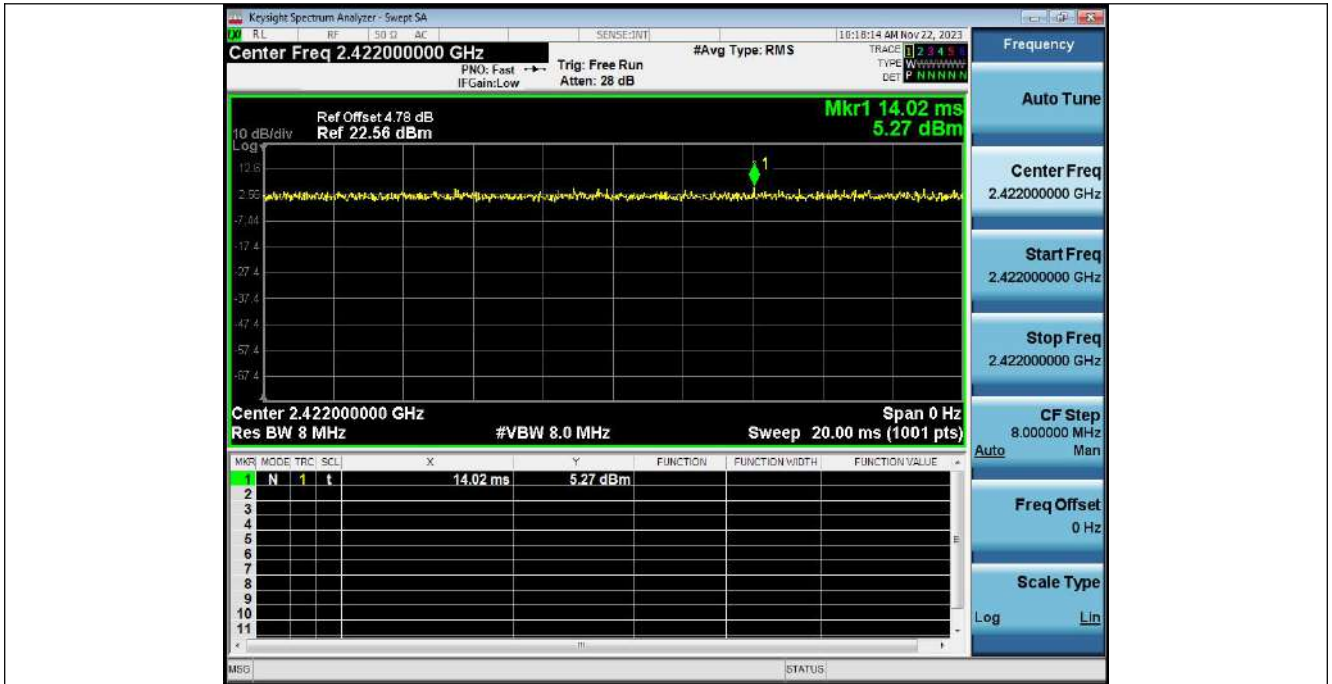
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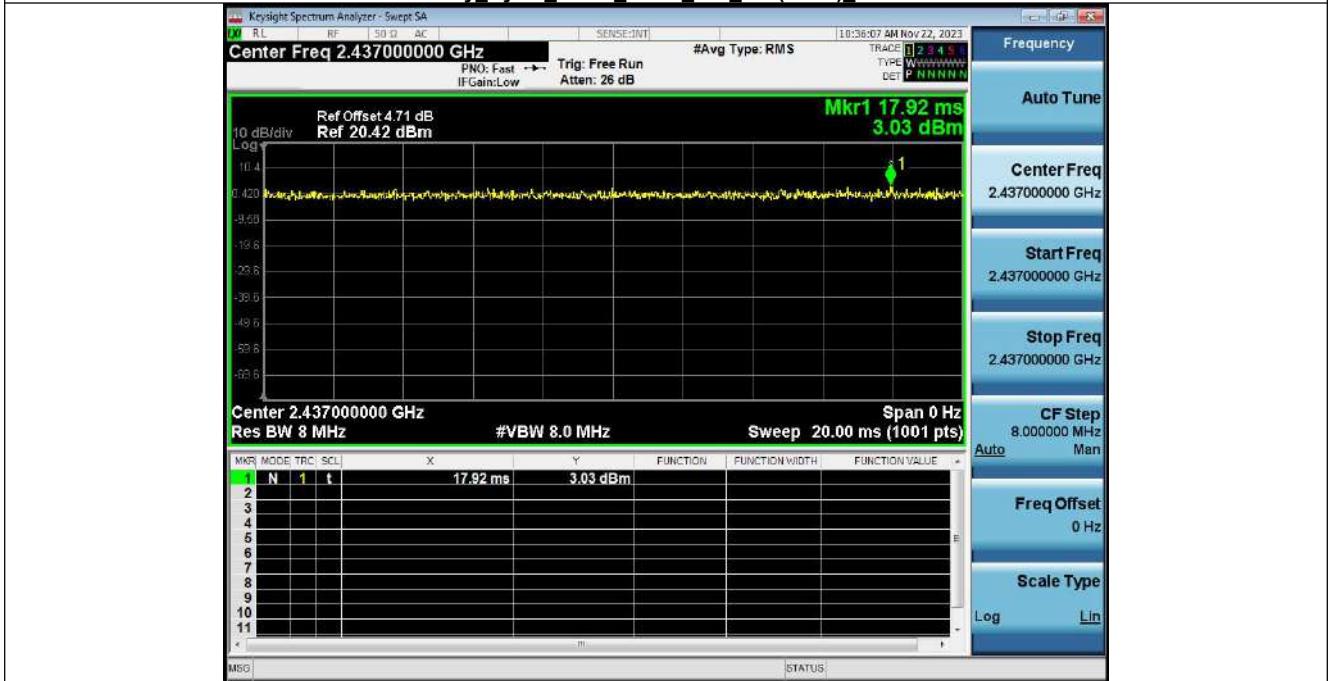
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2422



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2437



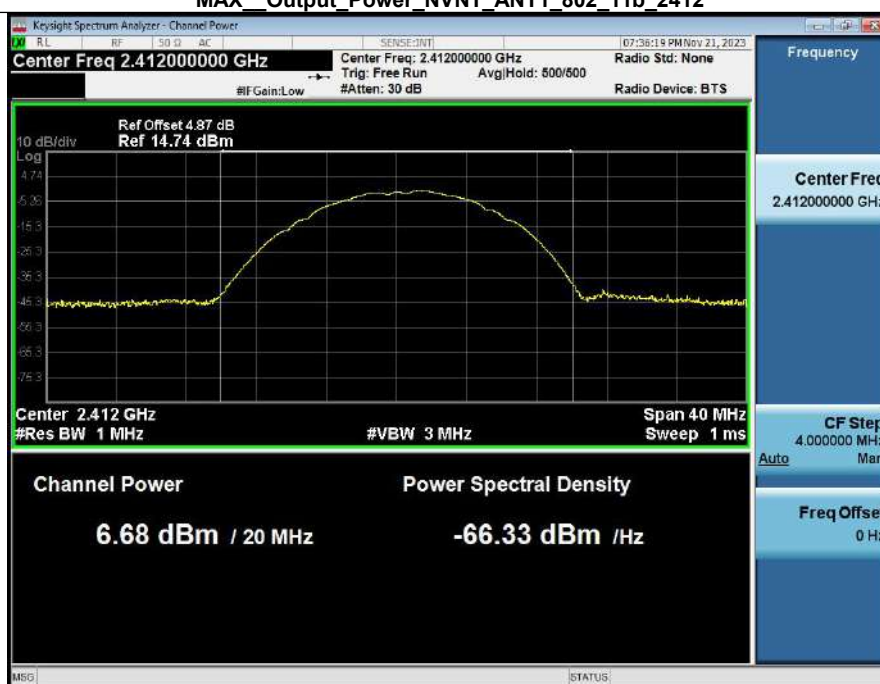
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2452



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	6.68	N/A	6.68	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	6.69	N/A	6.69	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	6.54	N/A	6.54	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	6.86	N/A	6.86	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	6.65	N/A	6.65	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	6.28	N/A	6.28	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	7.06	N/A	7.06	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	7.10	N/A	7.10	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	7.67	N/A	7.67	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	6.67	N/A	6.67	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	6.50	N/A	6.50	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	7.03	N/A	7.03	30	Pass

MAX_Output_Power_NVNT_ANT1_802_11b_2412



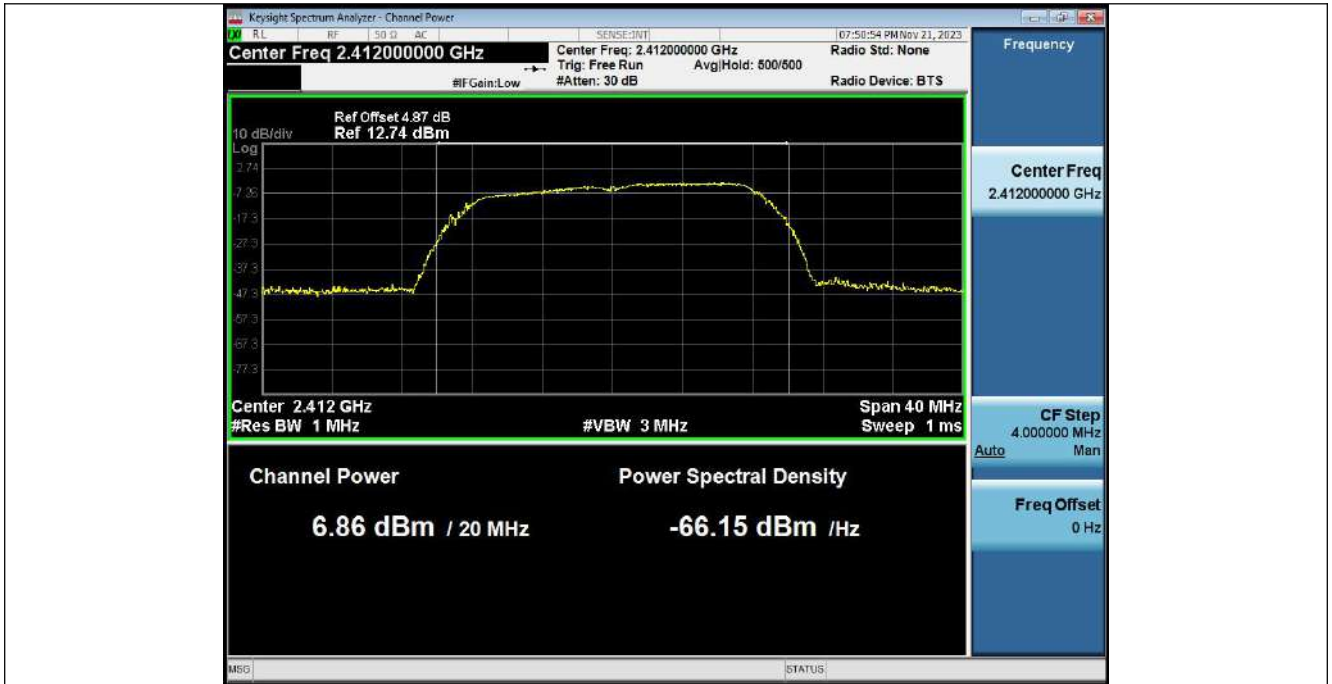
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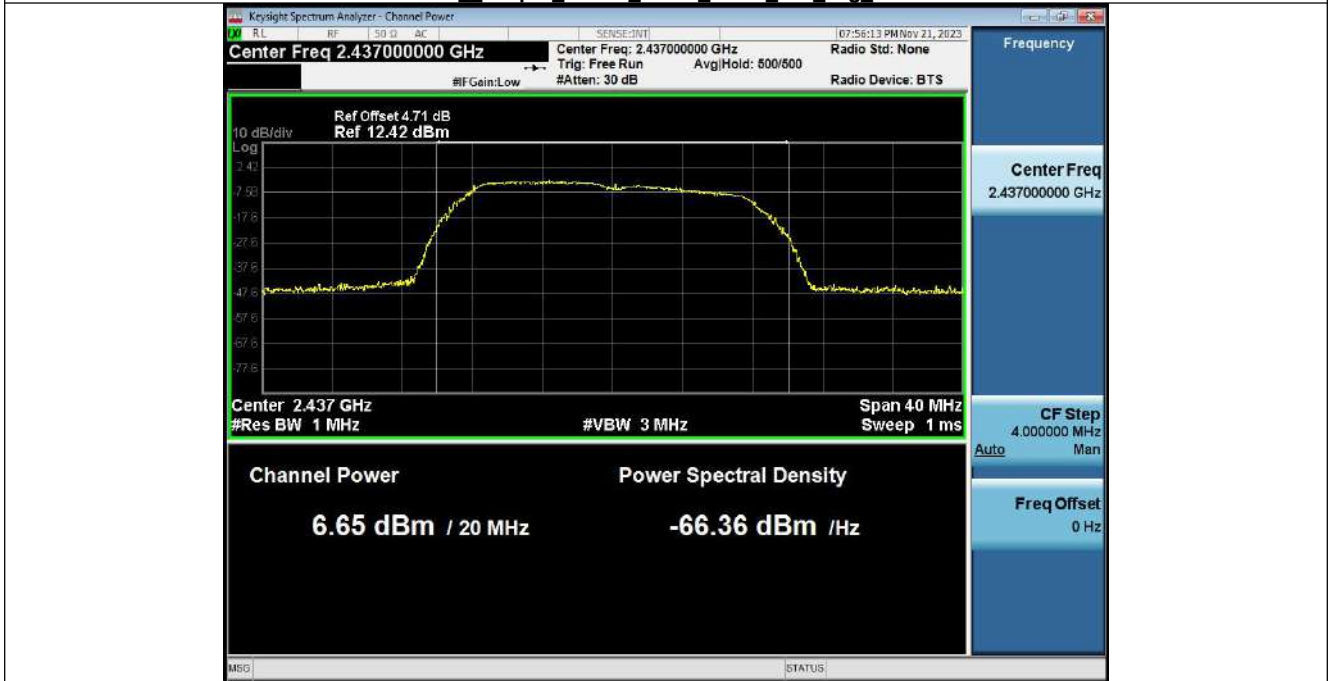
MAX Output Power NVNT ANT1 802_11b_2462



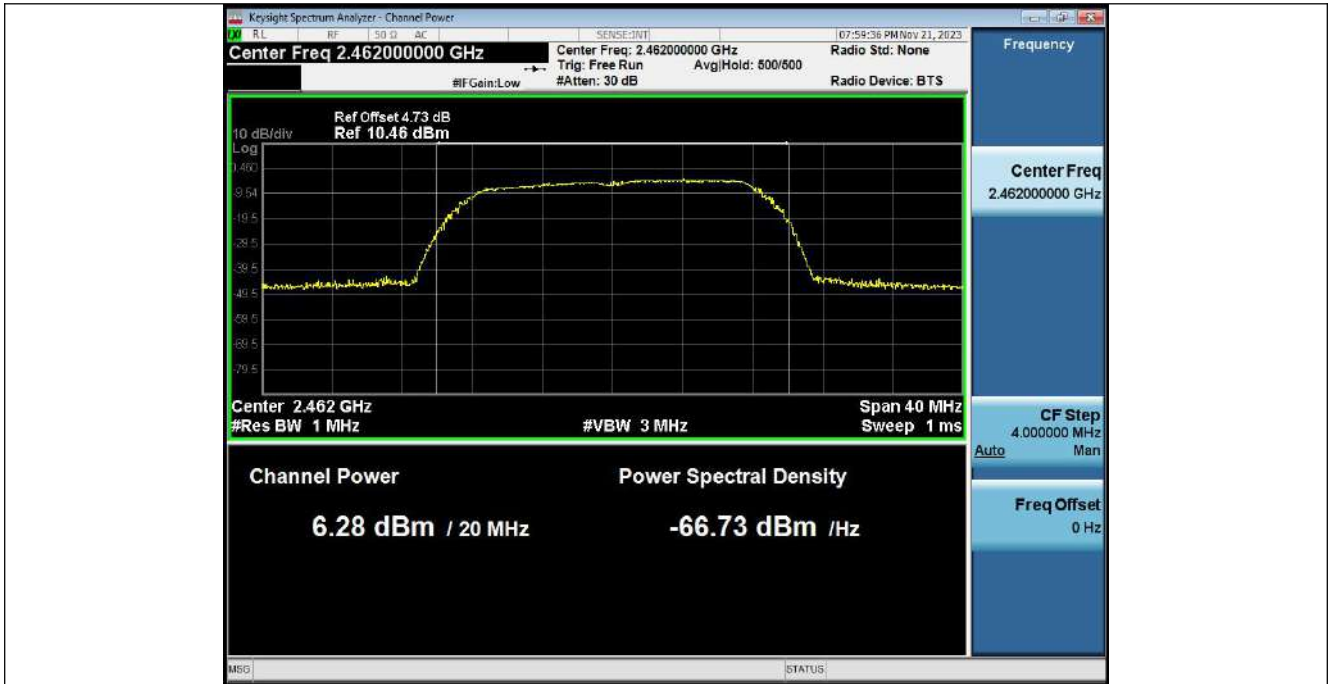
MAX Output Power NVNT ANT1 802_11g_2412



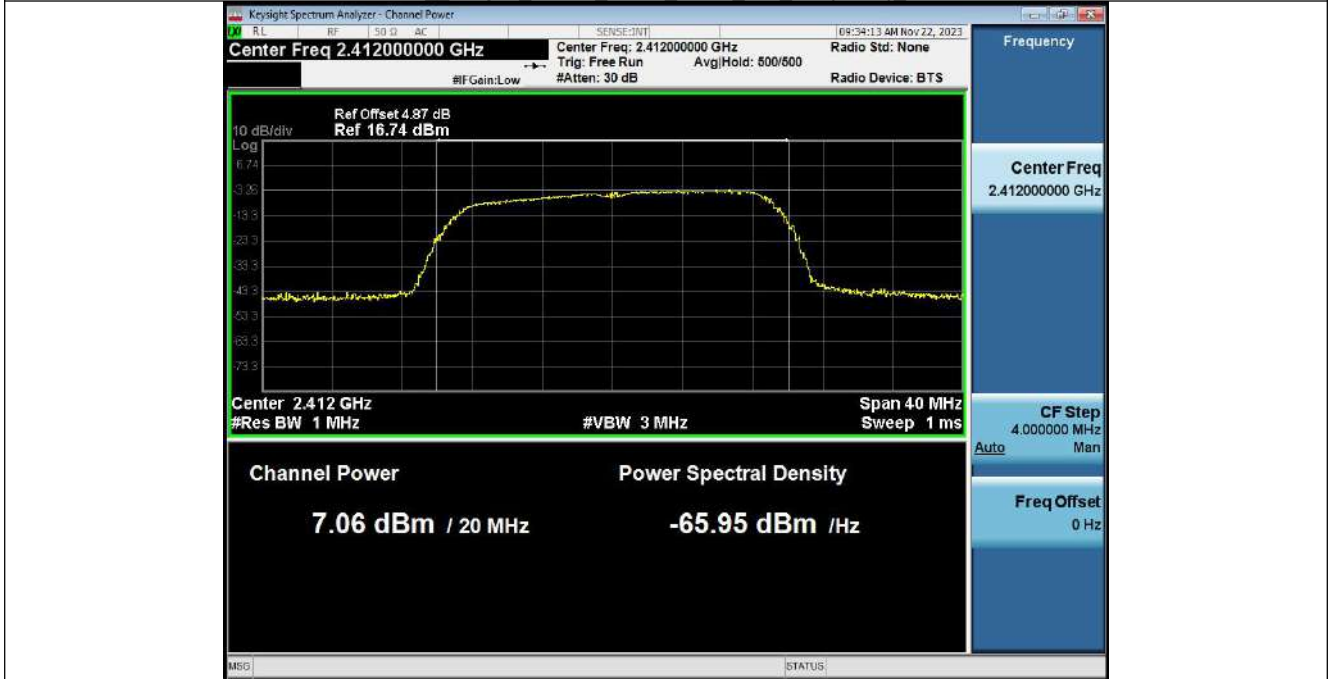
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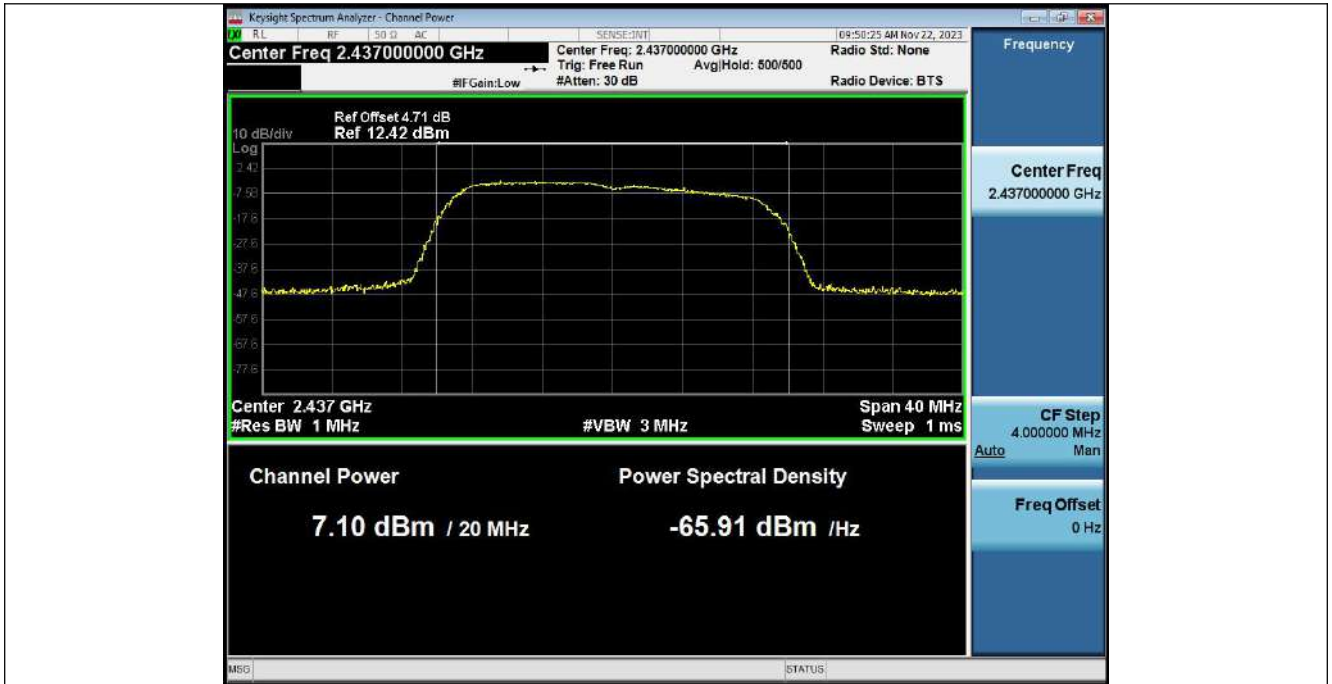
MAX Output Power NVNT ANT1_802_11g_2462



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)	PSD(dBm/30kHz)	Duty factor(dB)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	-8.22	N/A	-10.00	-18.23	8	
NVNT	ANT1	802.11b	2437.00	-8.91	N/A	-10.00	-18.91	8	
NVNT	ANT1	802.11b	2462.00	-9.32	N/A	-10.00	-19.32	8	
NVNT	ANT1	802.11g	2412.00	-16.40	N/A	-10.00	-26.40	8	
NVNT	ANT1	802.11g	2437.00	-15.97	N/A	-10.00	-25.97	8	
NVNT	ANT1	802.11g	2462.00	-17.01	N/A	-10.00	-27.01	8	
NVNT	ANT1	802.11n(HT20)	2412.00	-16.10	N/A	-10.00	-26.10	8	
NVNT	ANT1	802.11n(HT20)	2437.00	-15.78	N/A	-10.00	-25.78	8	
NVNT	ANT1	802.11n(HT20)	2462.00	-15.76	N/A	-10.00	-25.76	8	
NVNT	ANT1	802.11n(HT40)	2422.00	-18.02	N/A	-10.00	-28.02	8	
NVNT	ANT1	802.11n(HT40)	2437.00	-18.33	N/A	-10.00	-28.33	8	
NVNT	ANT1	802.11n(HT40)	2452.00	-19.52	N/A	-10.00	-29.52	8	



Power Spectral Density NVNT_ANT1_802_11b_2437



Power_Spectral_Density_NVNT_ANT1_802_11b_2462



Power_Spectral_Density_NVNT_ANT1_802_11g_2412



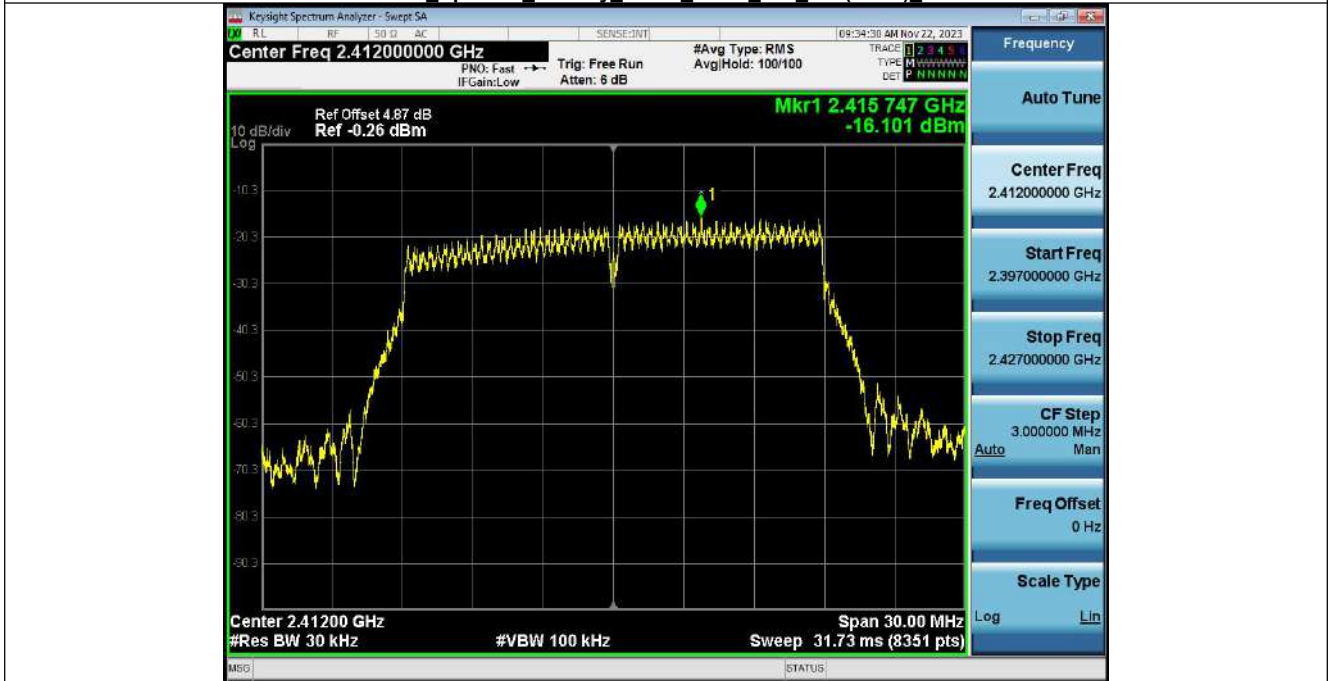
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Power_Spectral_Density_NVNT_ANT1_802_11g_2462



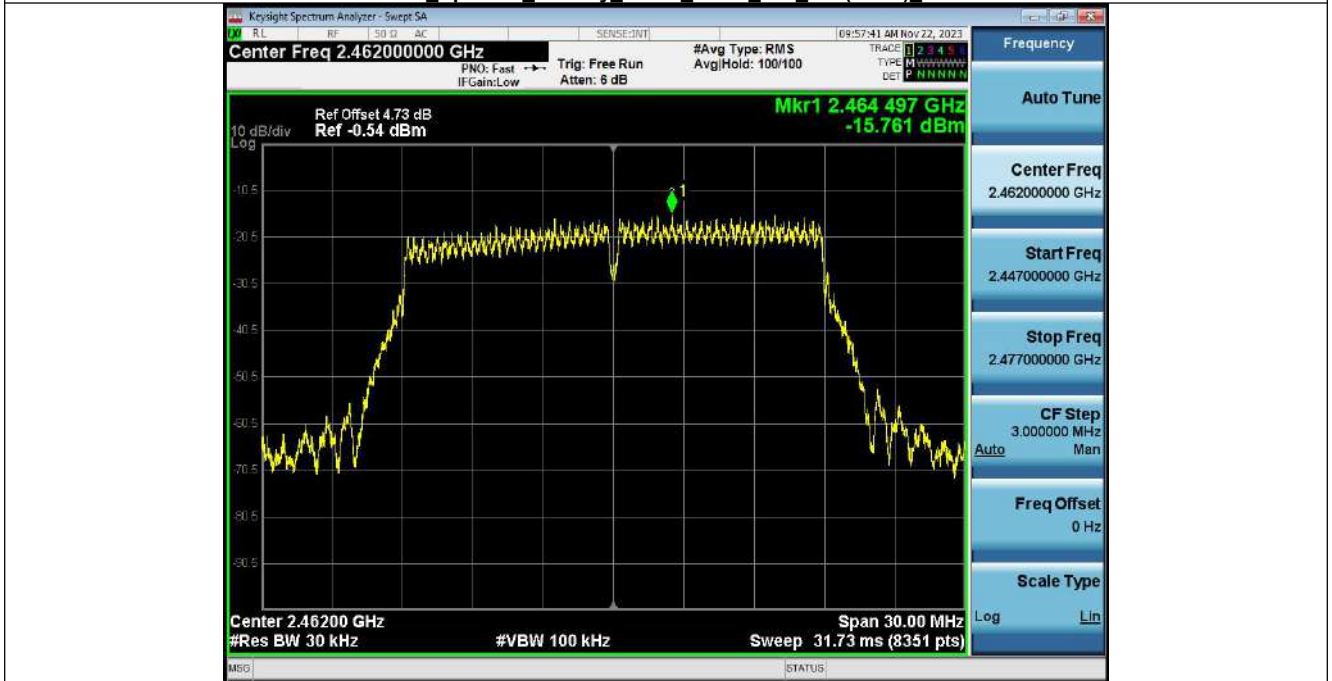
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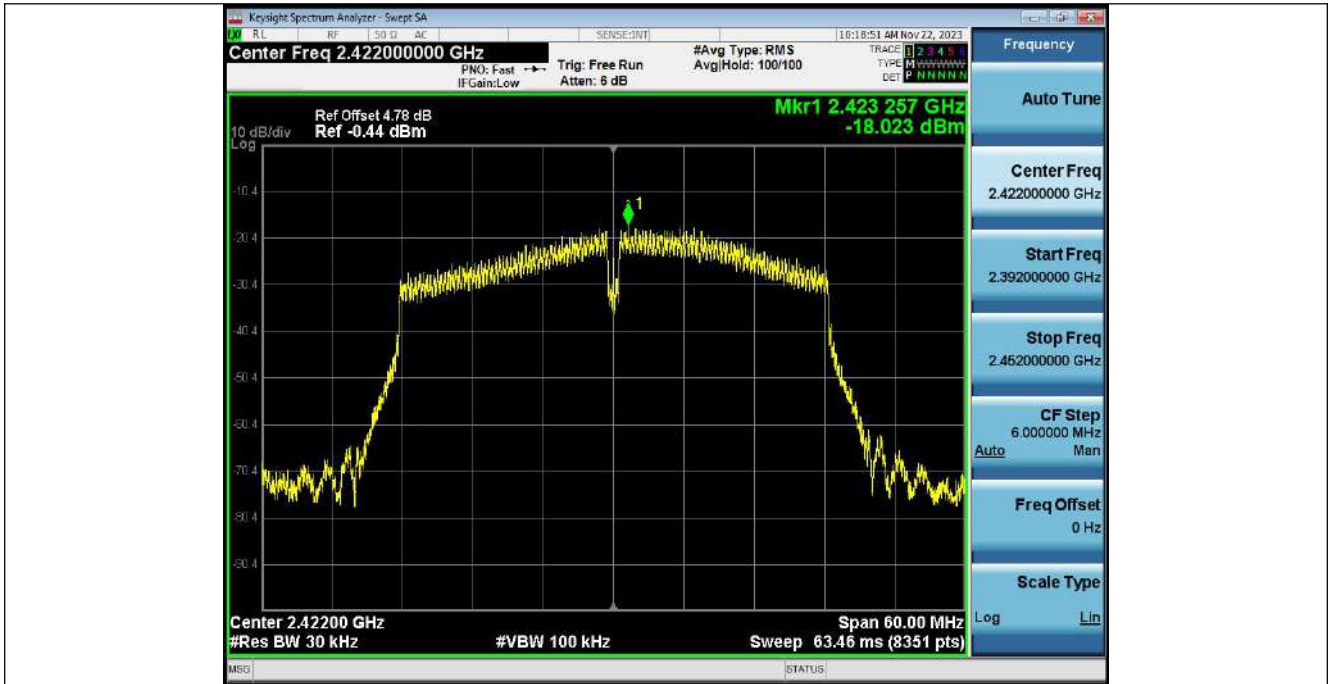
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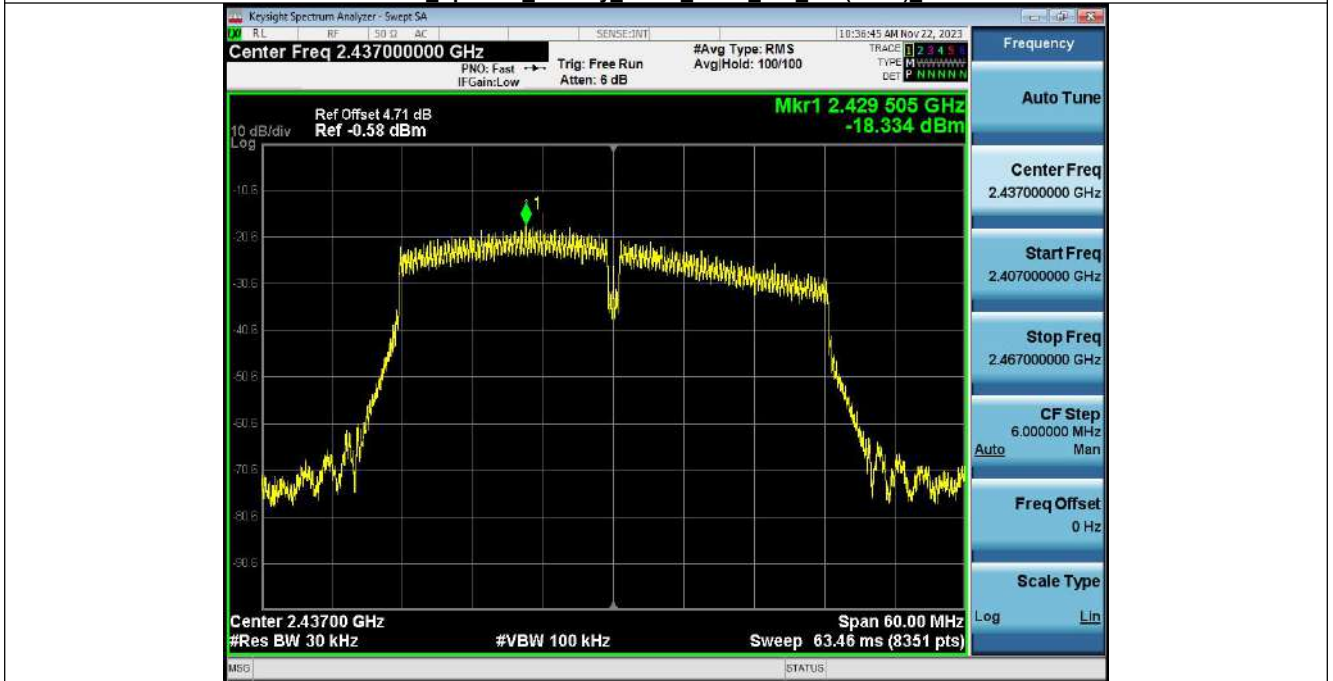
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2462



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2422



Power Spectral Density_NVNT_ANT1_802_11n(HT40)_2437

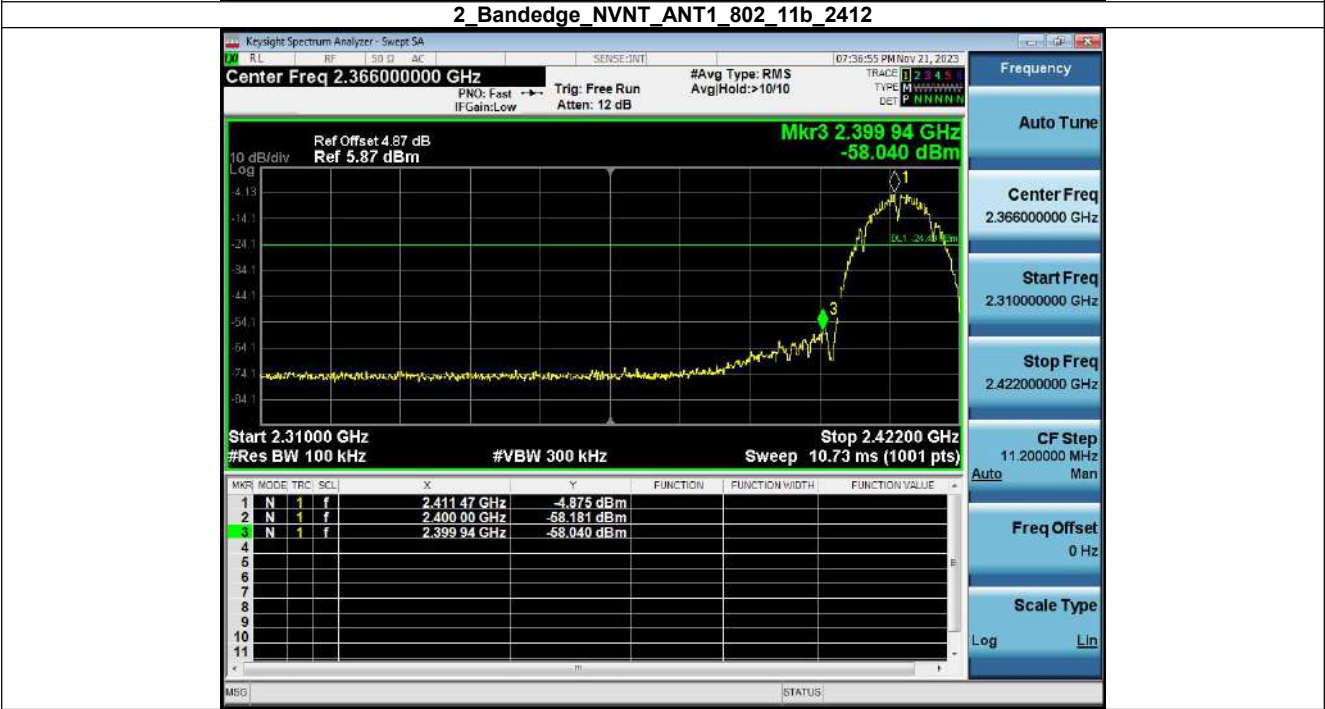


Power Spectral Density_NVNT_ANT1_802_11n(HT40)_2452

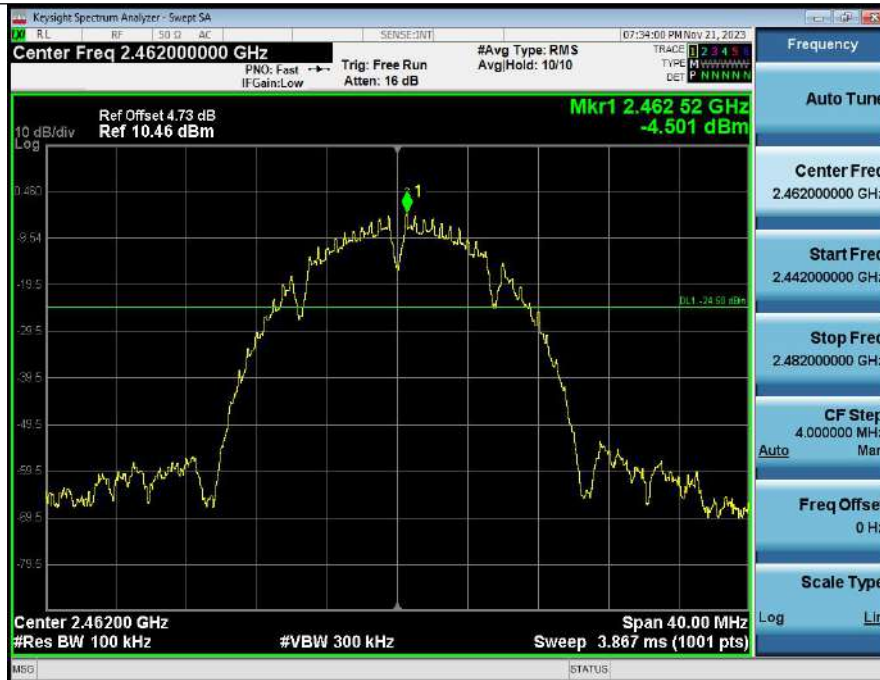


6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.936	-58.040	-24.478	Pass
NVNT	ANT1	802.11b	2462.00	2484.736	-69.845	-24.501	Pass
NVNT	ANT1	802.11g	2412.00	2399.712	-59.390	-33.632	Pass
NVNT	ANT1	802.11g	2462.00	2483.920	-69.394	-34.971	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.936	-58.254	-33.771	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2484.832	-66.461	-33.994	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.496	-62.363	-35.824	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.496	-66.355	-37.373	Pass



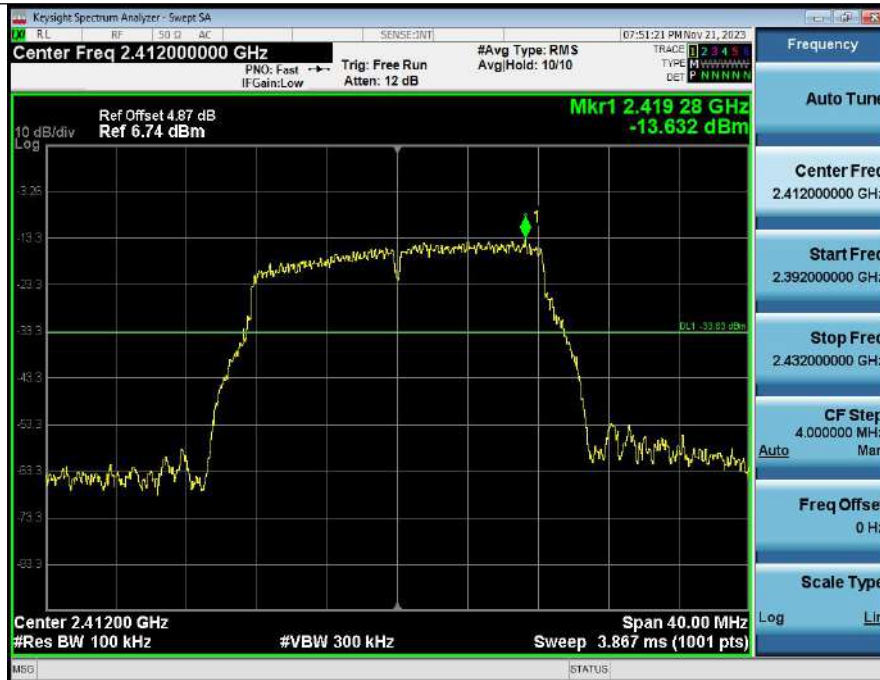
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2_Bandedge_NVNT_ANT1_802_11b_2462



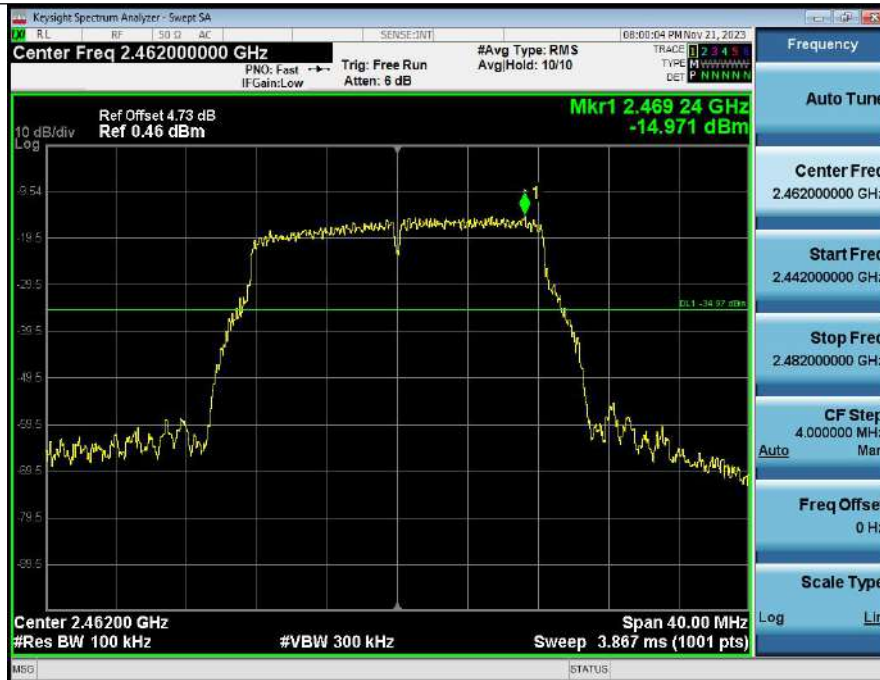
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2_Bandedge_NVNT_ANT1_802_11g_2412



1_Reference_Level_NVNT_ANT1_802_11g_2462



2_Bandedge_NVNT_ANT1_802_11g_2462



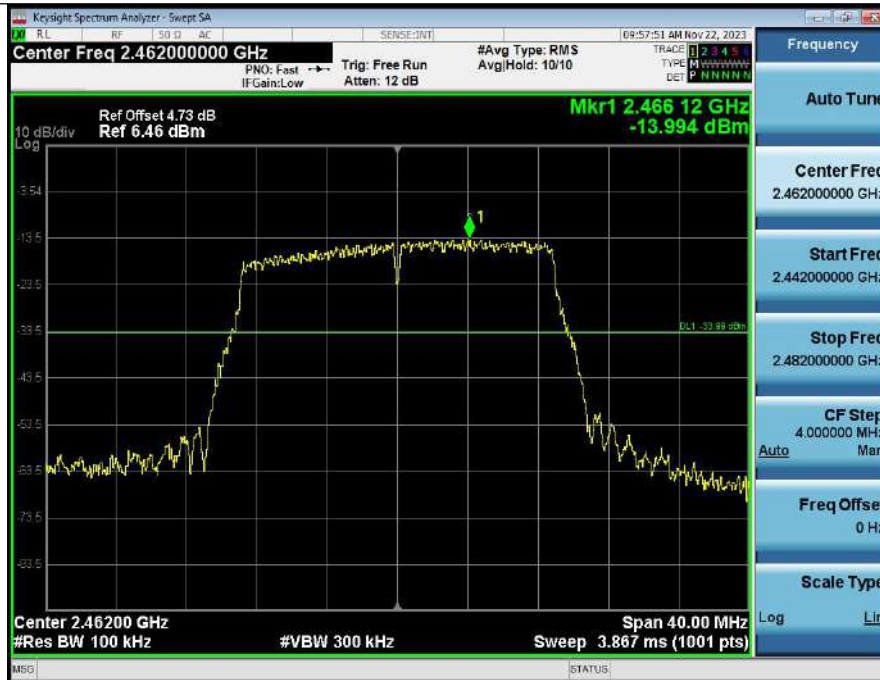
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2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



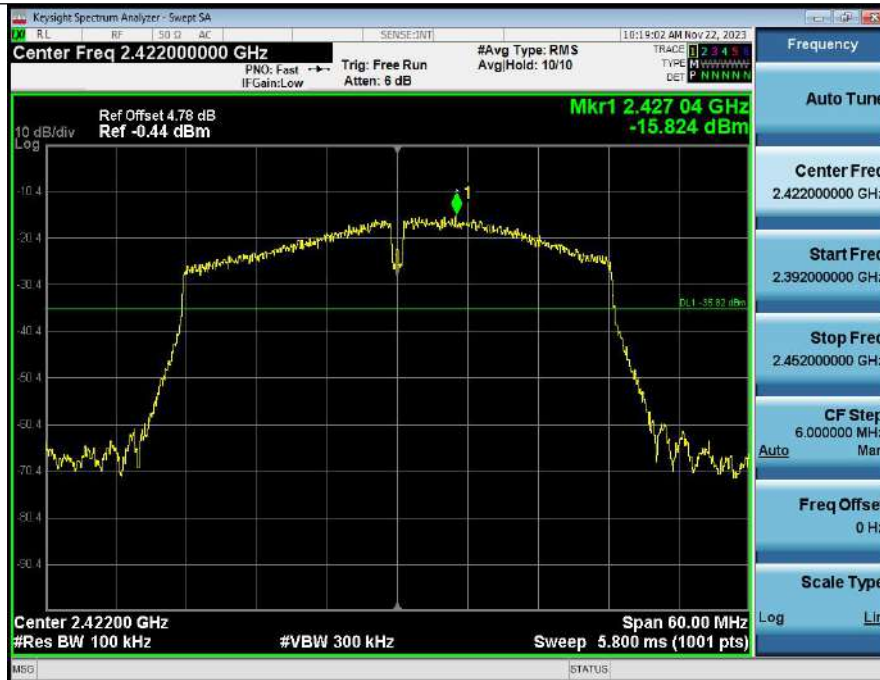
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2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462



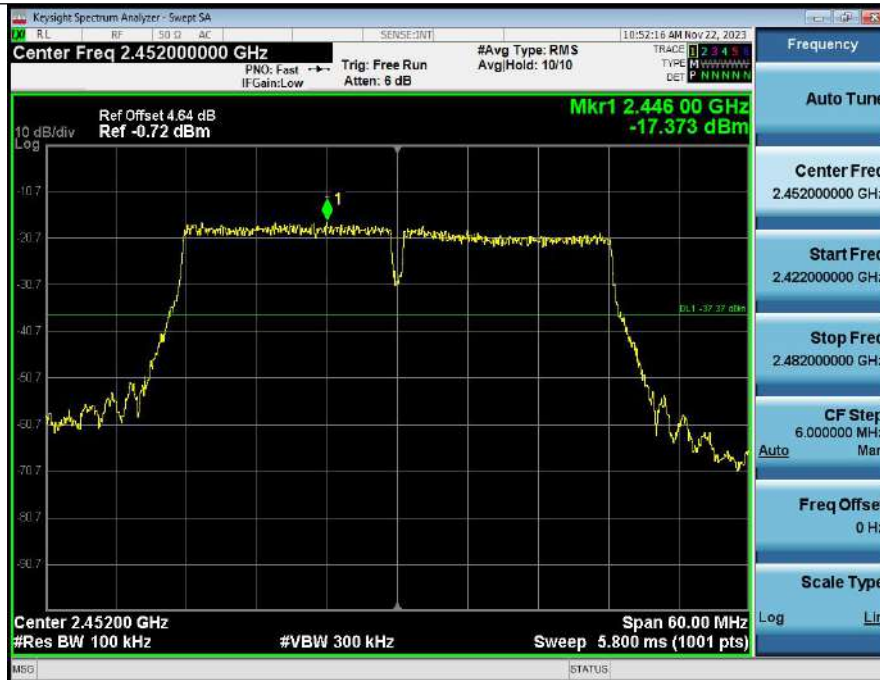
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2_Bandedge_NVNT_ANT1_802_11n(HT40)_2422



1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452



2_Bandedge_NVNT_ANT1_802_11n(HT40)_2452



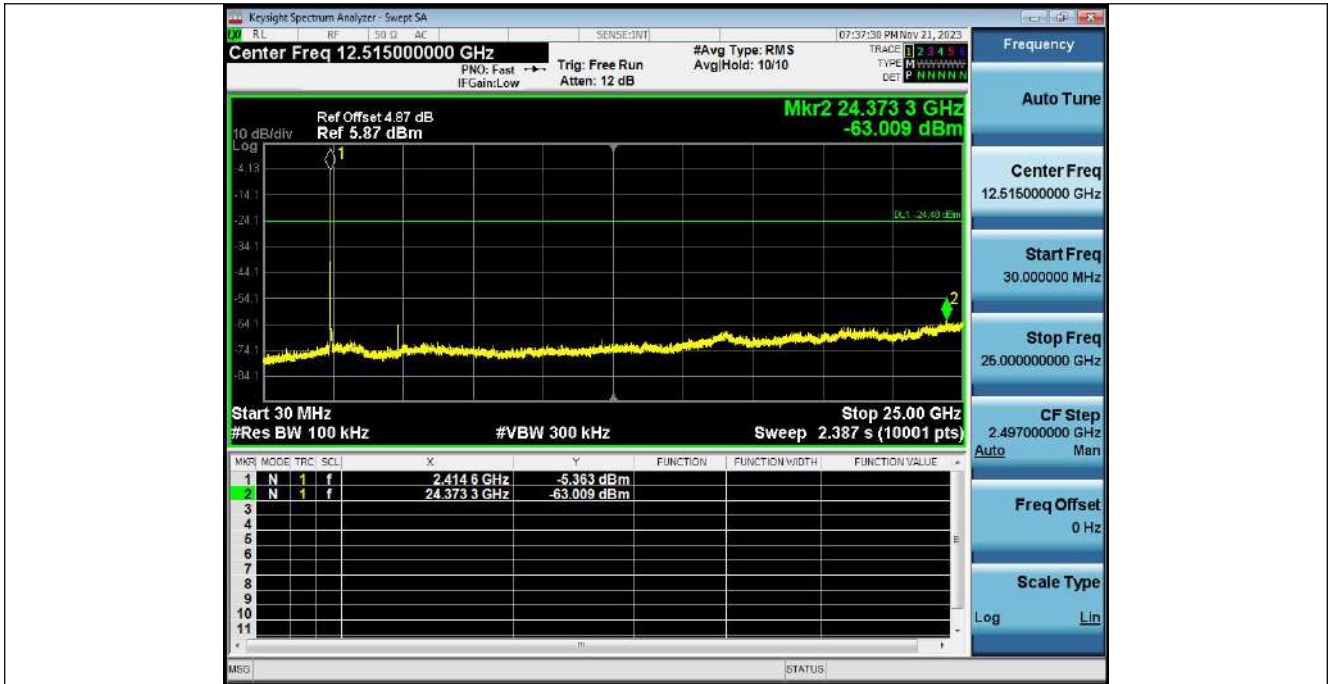
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24373.253	-63.009	-24.478	Pass
NVNT	ANT1	802.11b	2437.00	1752.930	-58.687	-25.169	Pass
NVNT	ANT1	802.11b	2462.00	24865.162	-62.237	-24.501	Pass
NVNT	ANT1	802.11g	2412.00	24935.078	-64.751	-33.632	Pass
NVNT	ANT1	802.11g	2437.00	24997.503	-64.748	-33.931	Pass
NVNT	ANT1	802.11g	2462.00	24985.018	-68.606	-34.971	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24448.163	-68.301	-33.771	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24827.707	-68.306	-34.162	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24952.557	-64.782	-33.994	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24957.551	-68.382	-35.824	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24880.144	-67.819	-36.469	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	24470.636	-68.429	-37.373	Pass

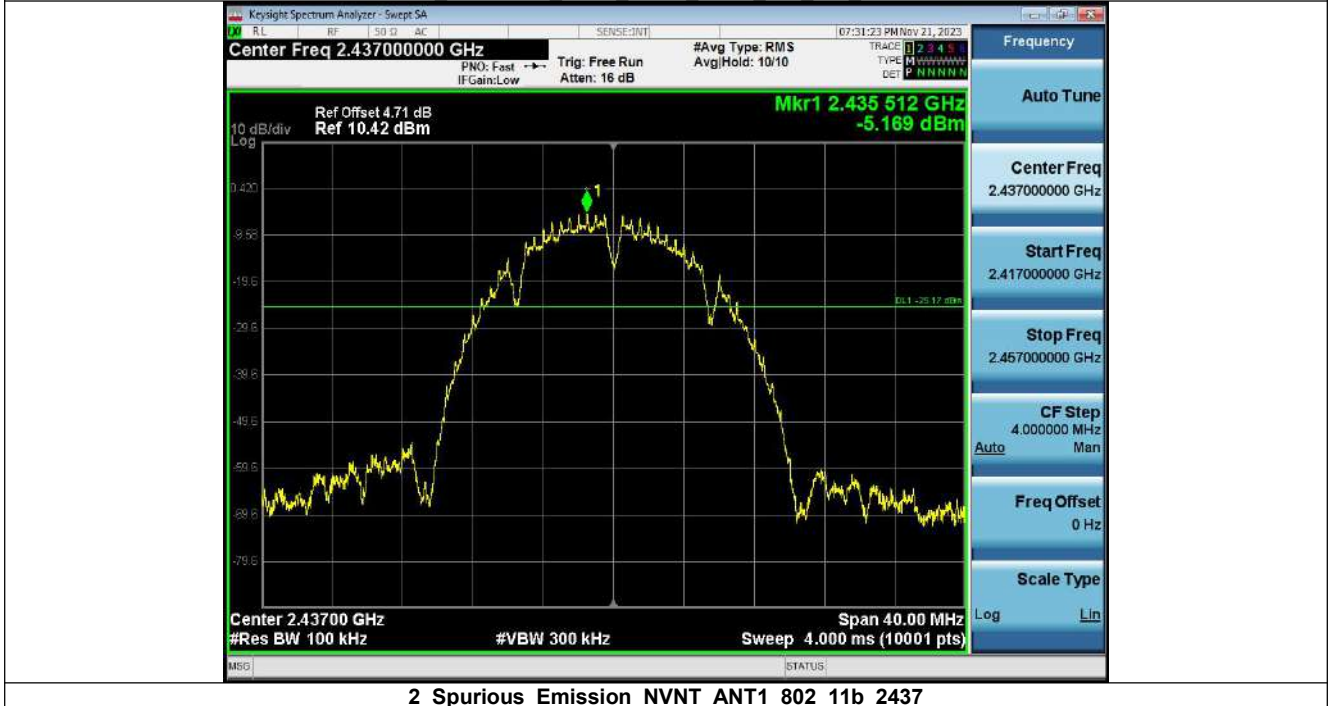
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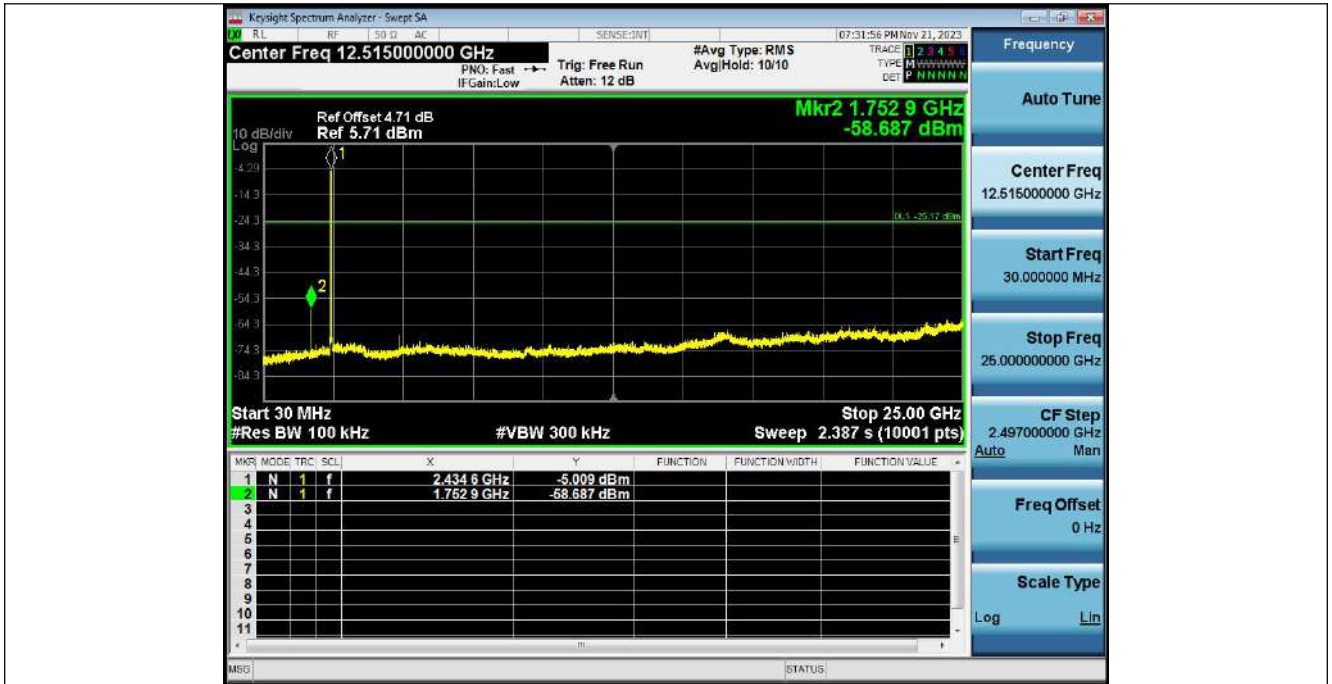
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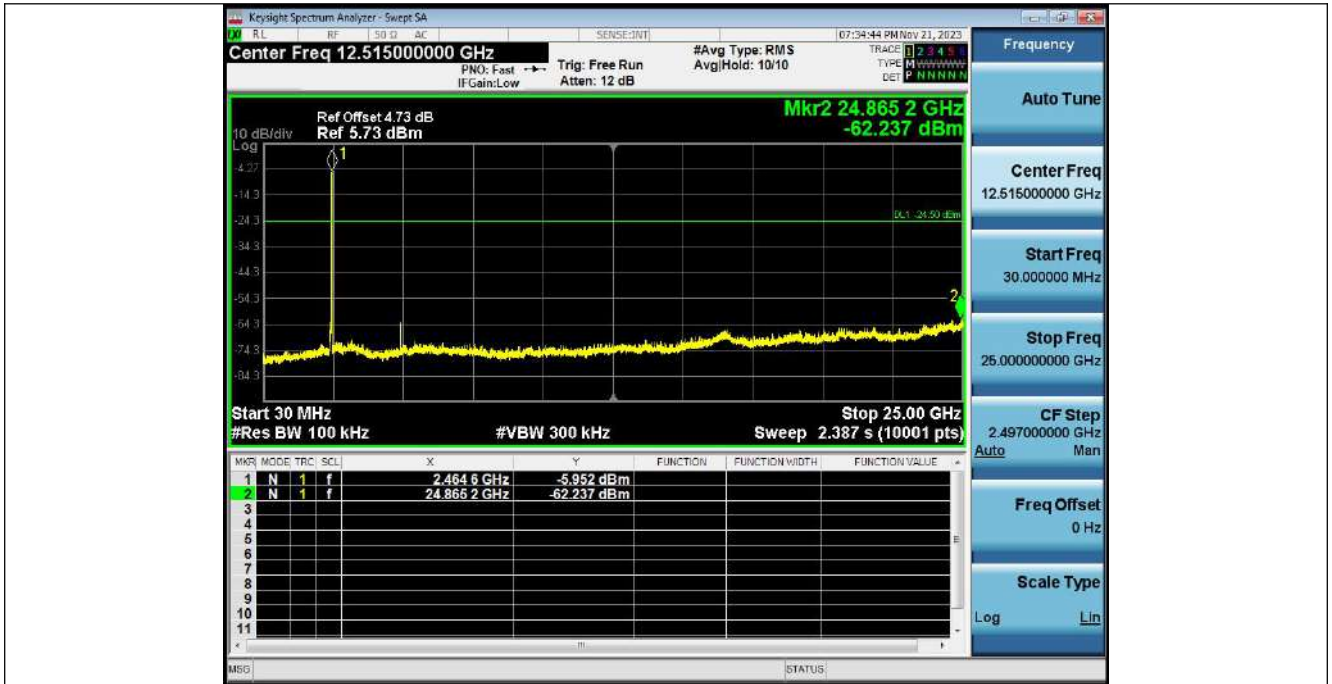
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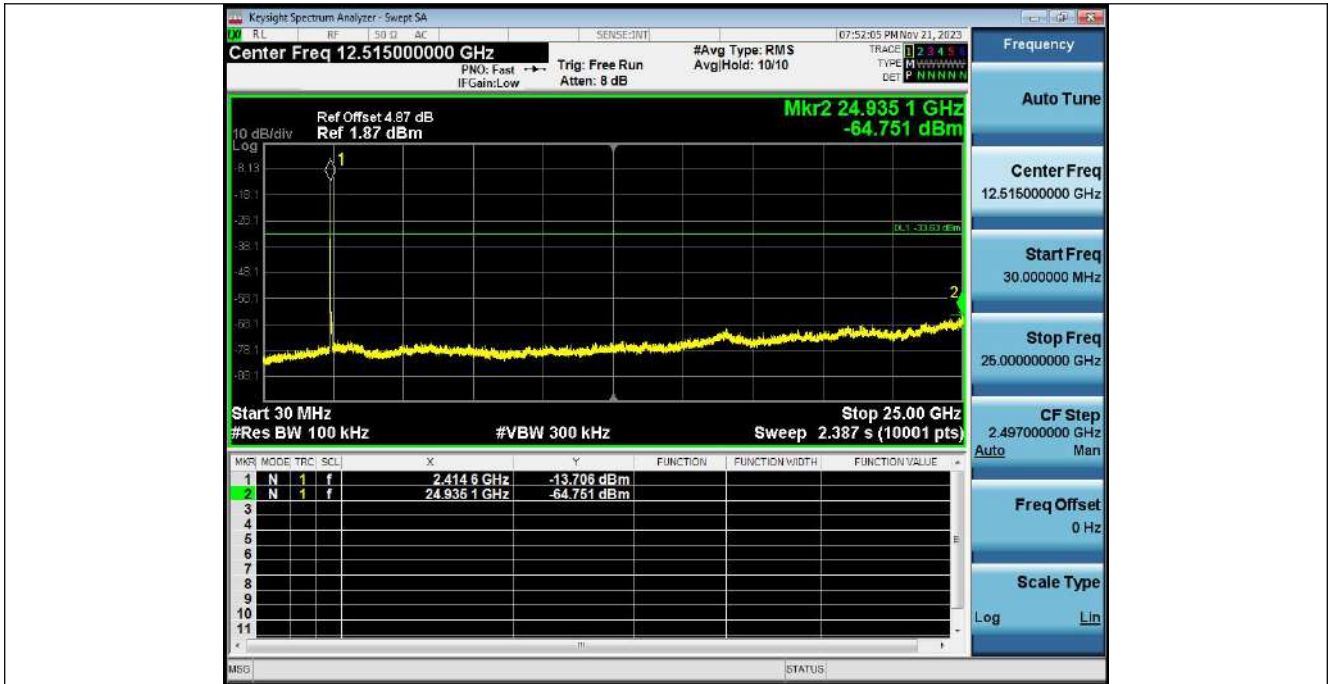
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2 Spurious Emission NVNT_ANT1_802_11g_2412



1 Reference Level NVNT_ANT1_802_11g_2437



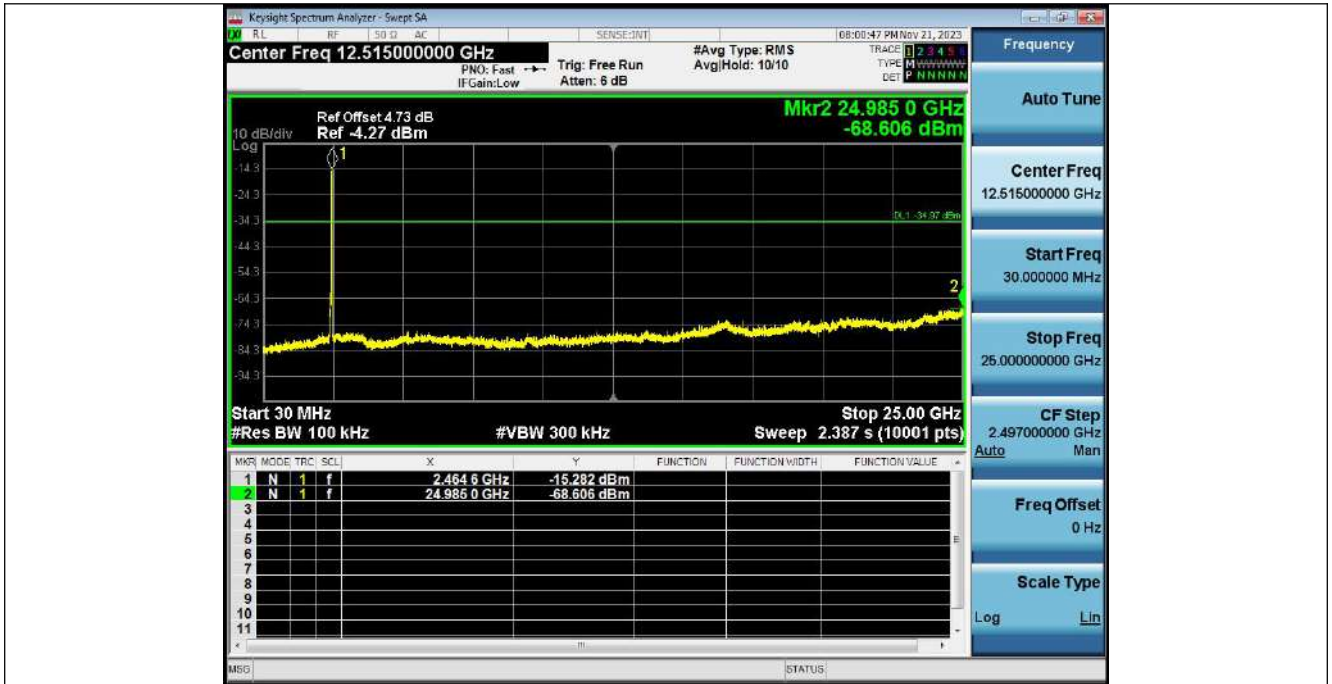
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1 Reference Level NVNT_ANT1_802_11g_2462



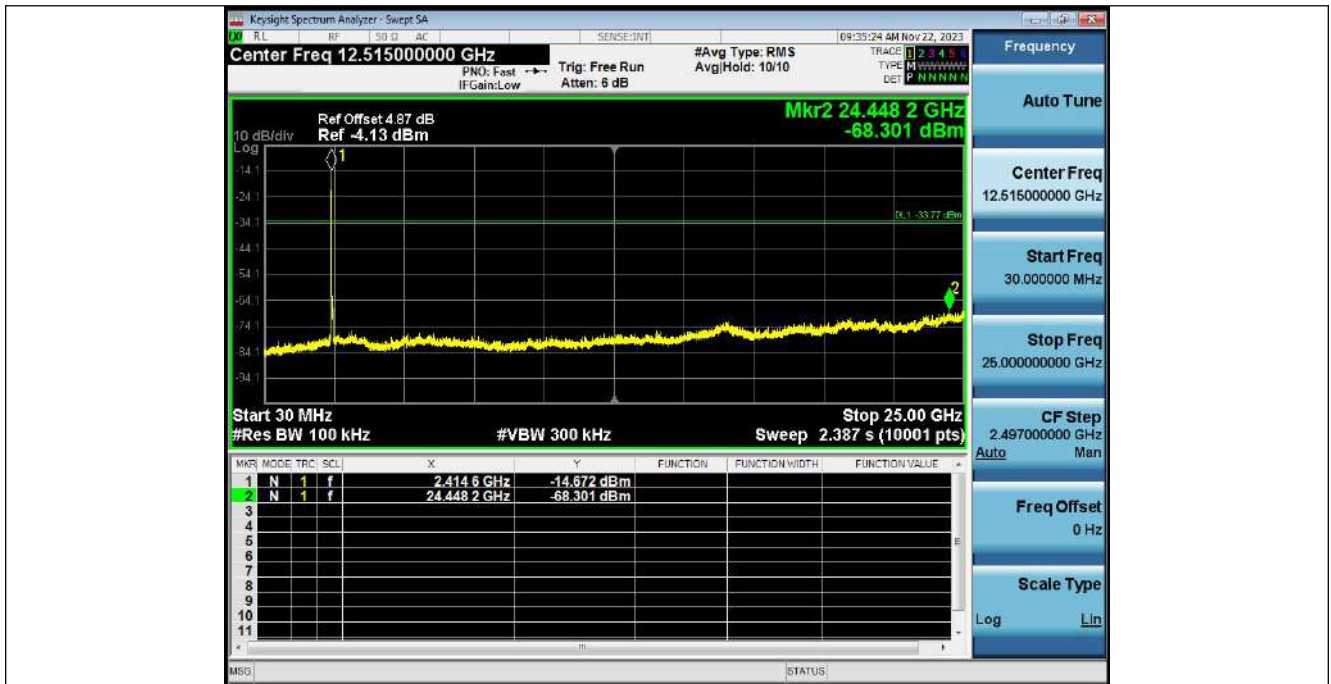
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1 Reference Level NVNT_ANT1_802_11n(HT20)_2412



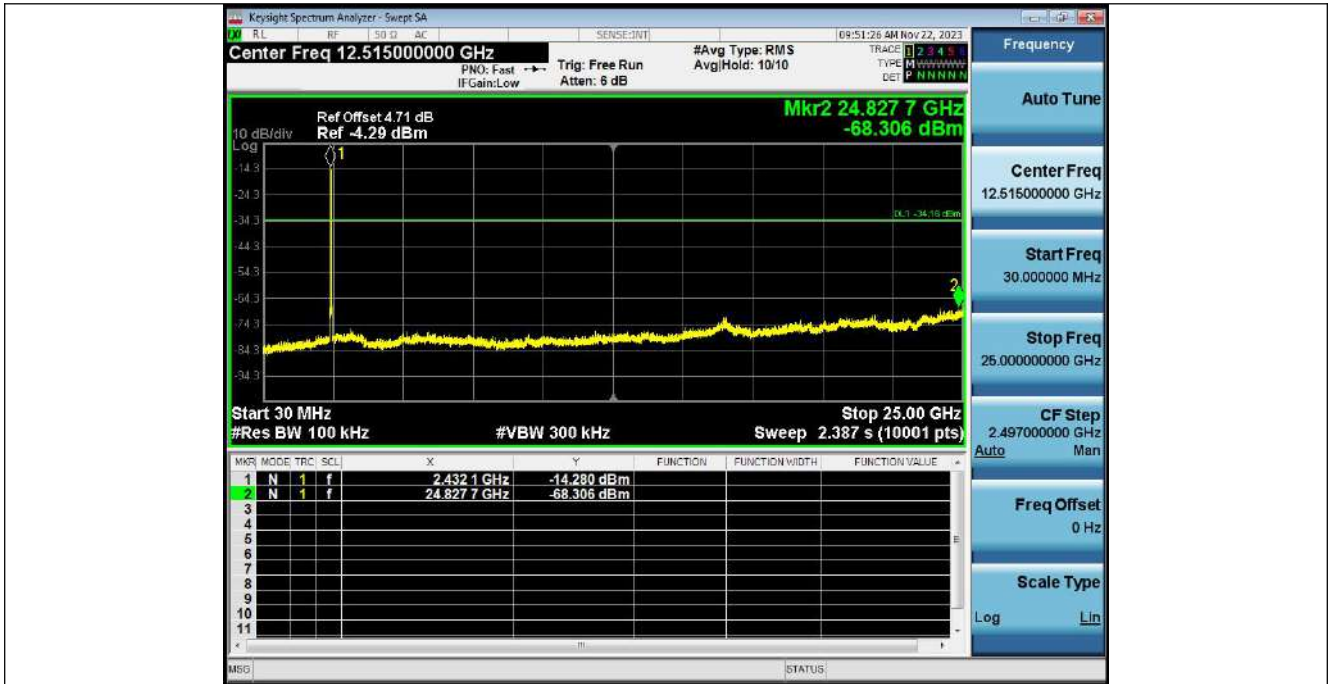
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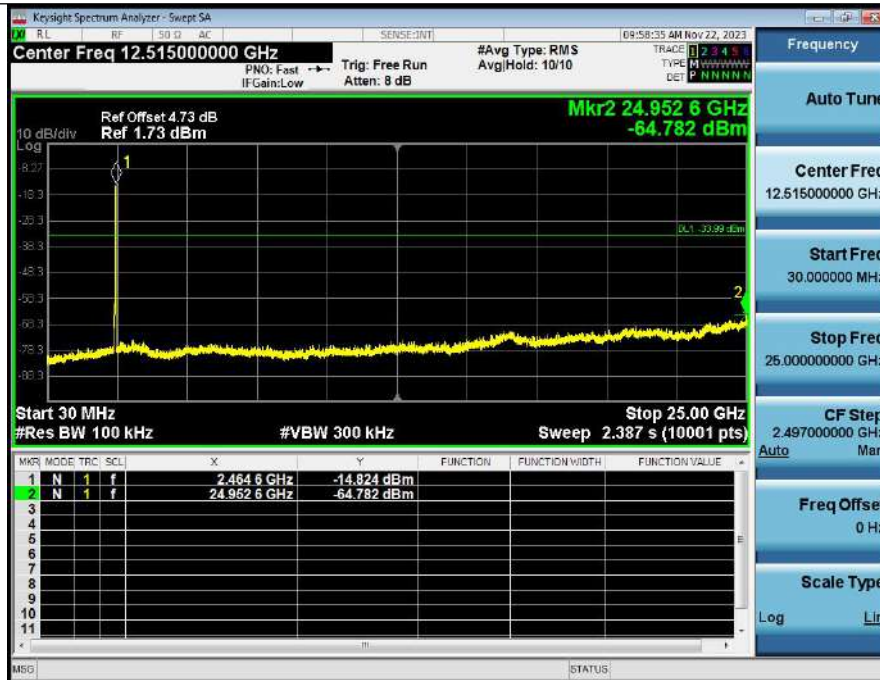
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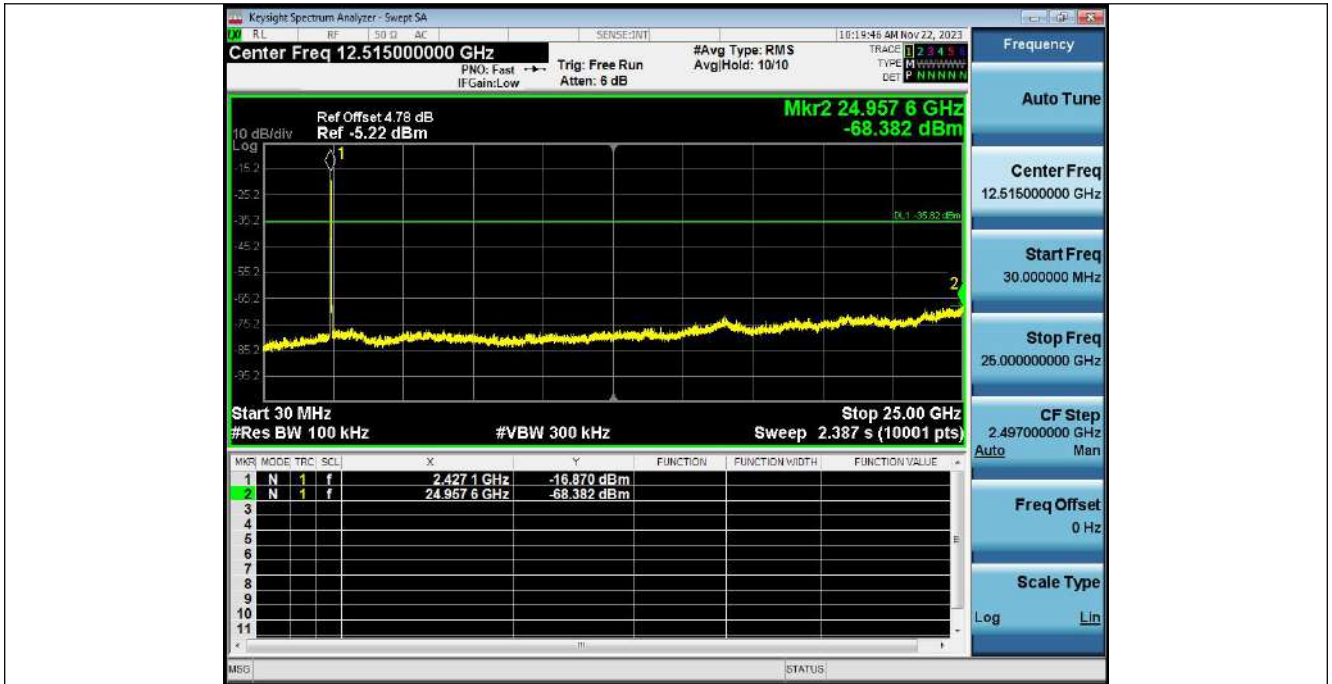
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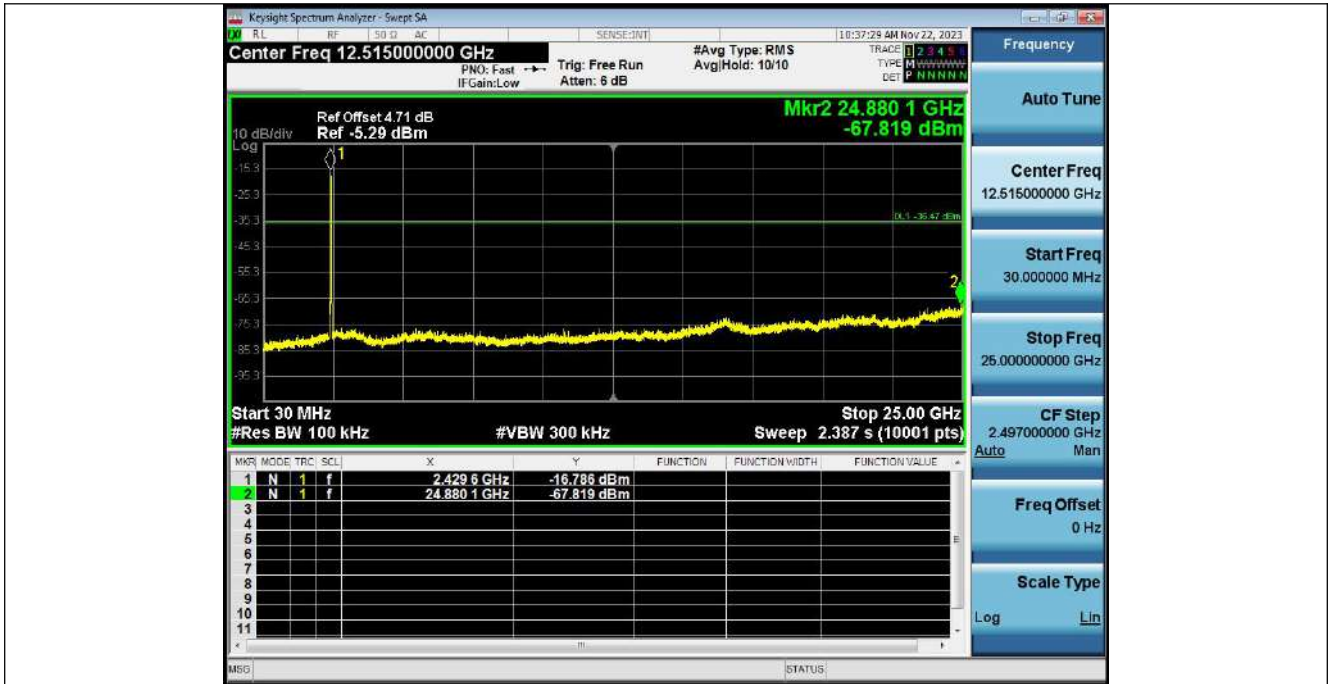
2 Spurious Emission NVNT_ANT1_802_11n(HT40)_2422



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

