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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	8.57	500	Pass
NVNT	ANT1	802.11b	2437.00	8.61	500	Pass
NVNT	ANT1	802.11b	2462.00	8.59	500	Pass
NVNT	ANT1	802.11g	2412.00	15.45	500	Pass
NVNT	ANT1	802.11g	2437.00	15.97	500	Pass
NVNT	ANT1	802.11g	2462.00	15.38	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	15.82	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.12	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	16.02	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	35.09	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	36.20	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.52	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	15.114
NVNT	ANT1	802.11b	2437.00	11.994
NVNT	ANT1	802.11b	2462.00	14.752
NVNT	ANT1	802.11g	2412.00	22.047
NVNT	ANT1	802.11g	2437.00	17.298
NVNT	ANT1	802.11g	2462.00	22.292
NVNT	ANT1	802.11n(HT20)	2412.00	21.329
NVNT	ANT1	802.11n(HT20)	2437.00	18.005
NVNT	ANT1	802.11n(HT20)	2462.00	20.980
NVNT	ANT1	802.11n(HT40)	2422.00	36.745
NVNT	ANT1	802.11n(HT40)	2437.00	37.311
NVNT	ANT1	802.11n(HT40)	2452.00	36.511



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

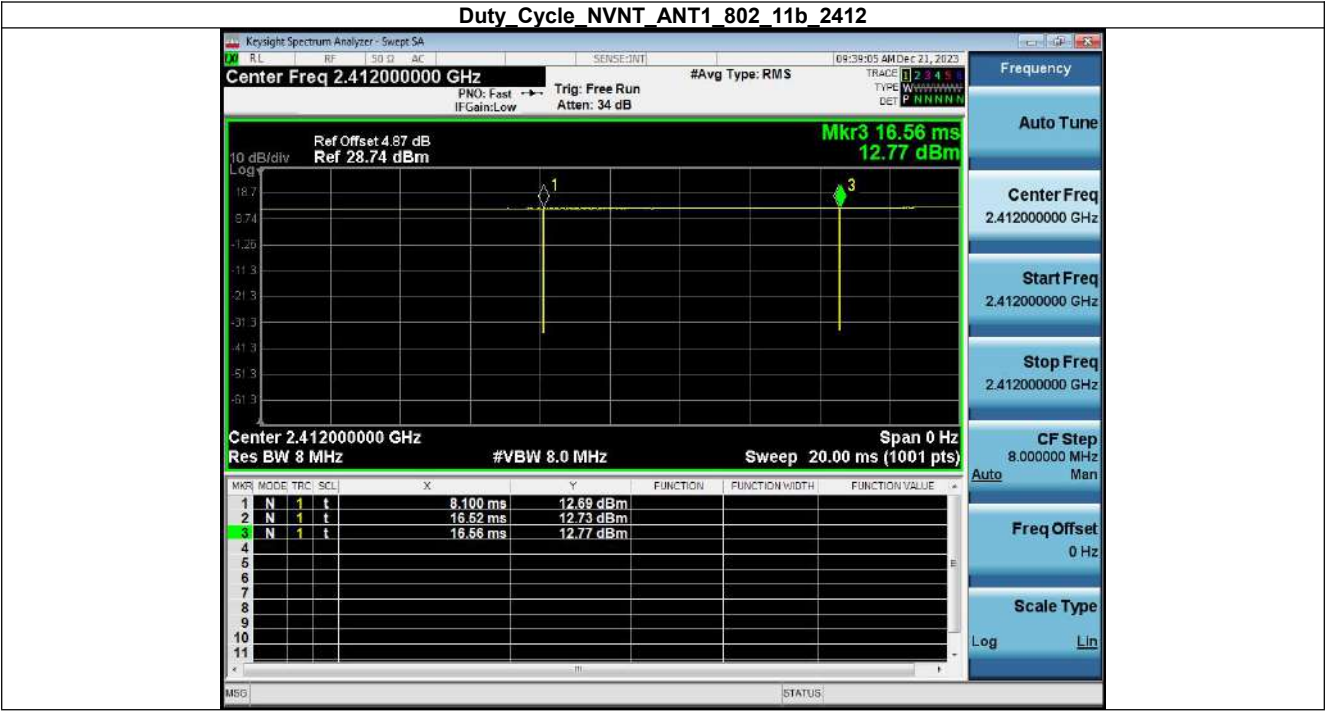


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452

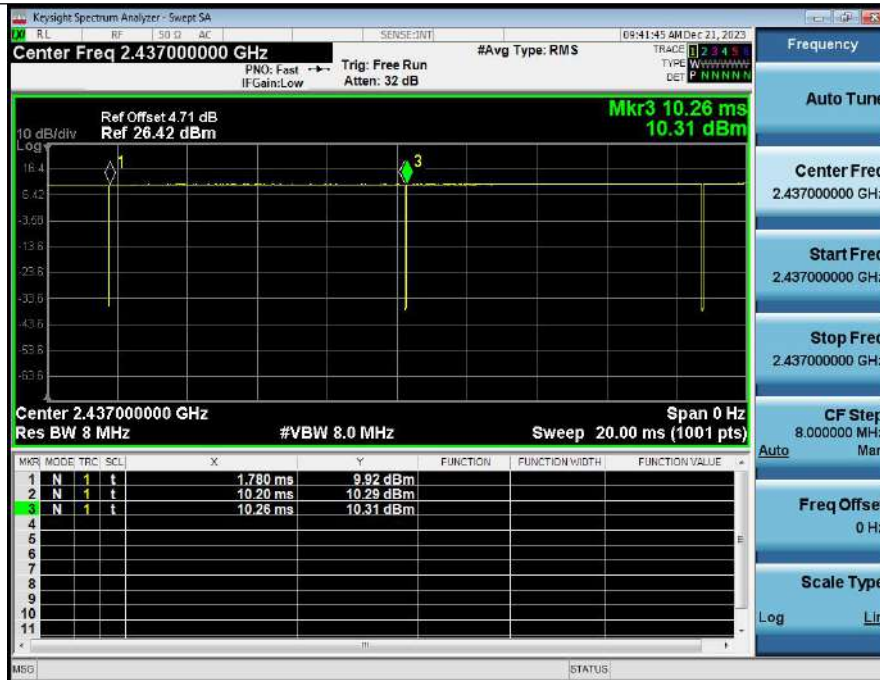


3. Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.76	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	97.26	0.12
NVNT	ANT1	802.11g	2437.00	98.61	0.00
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	96.88	0.14
NVNT	ANT1	802.11n(HT40)	2437.00	96.88	0.14
NVNT	ANT1	802.11n(HT40)	2452.00	90.63	0.43



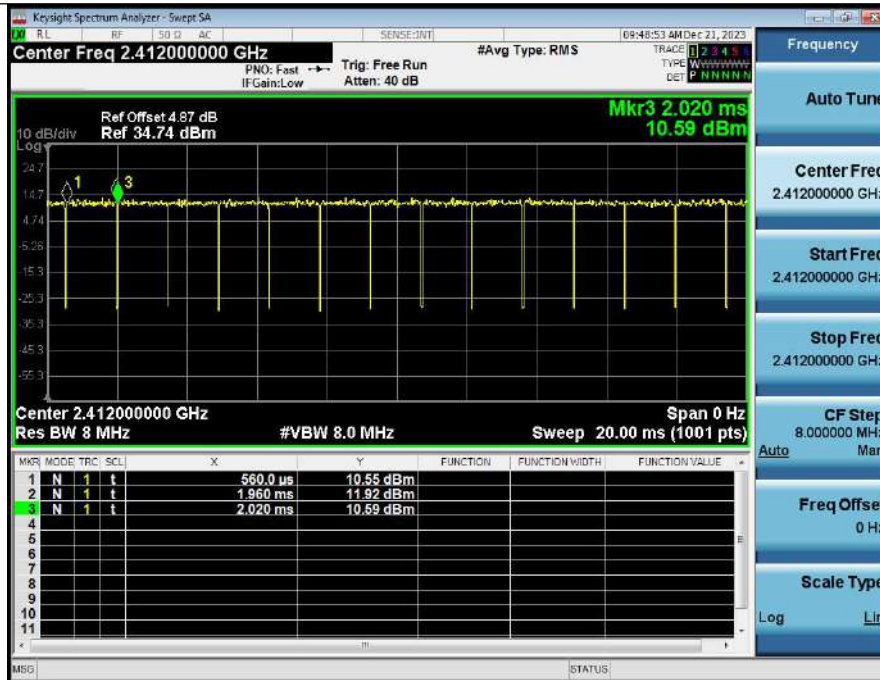
Duty Cycle NVNT ANT1 802 11b 2437



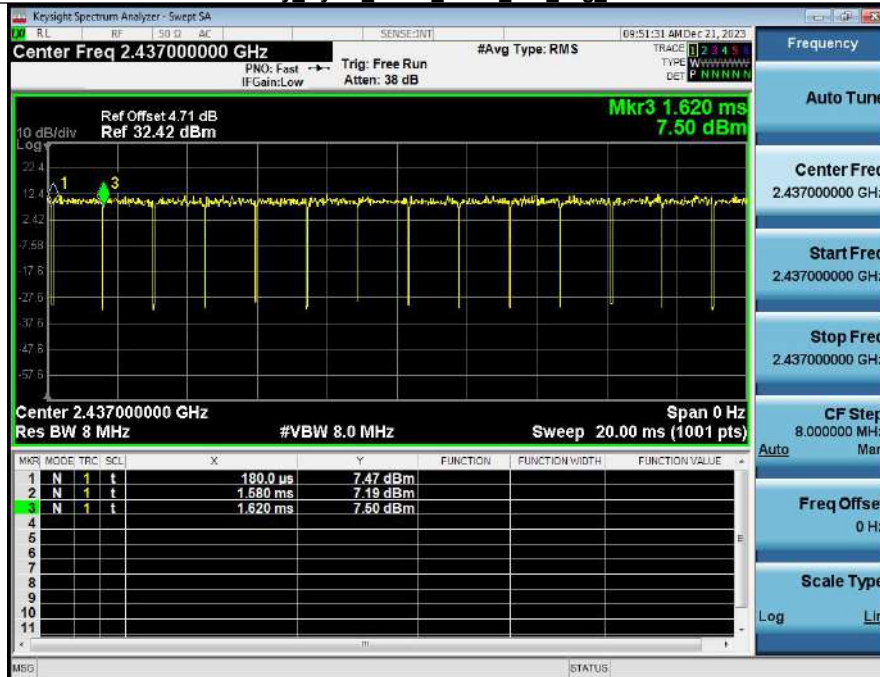
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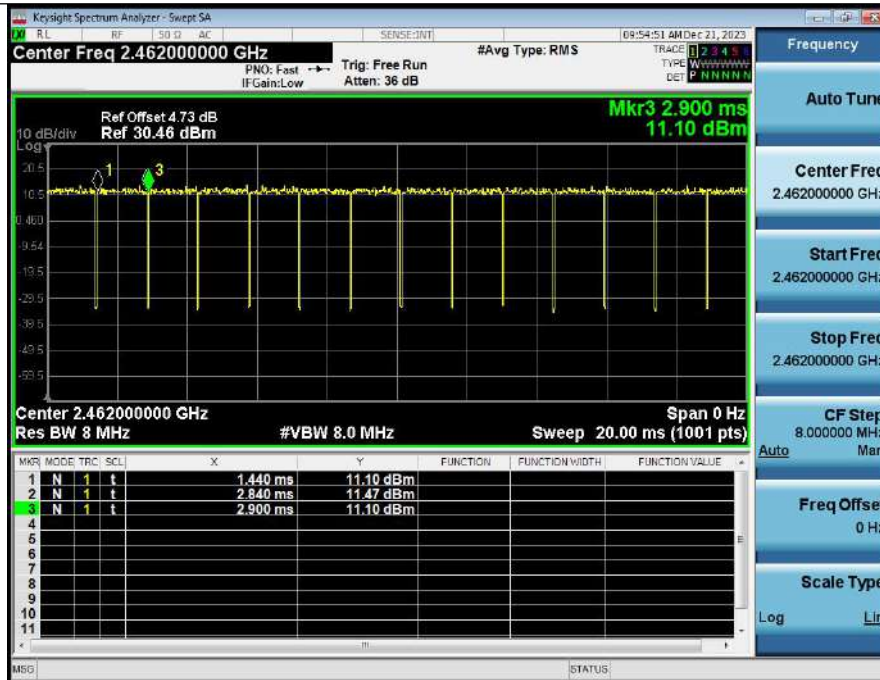
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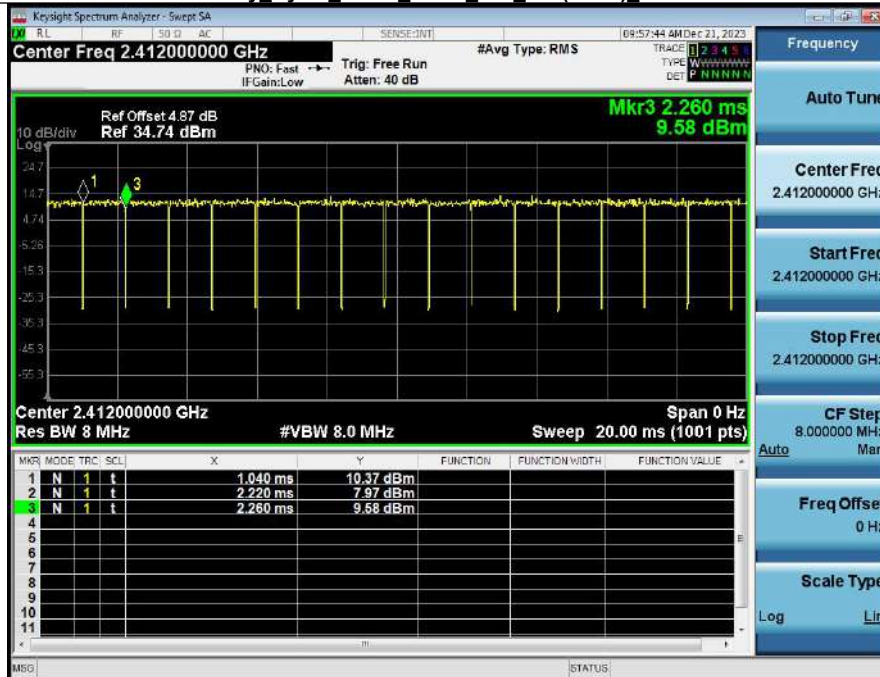
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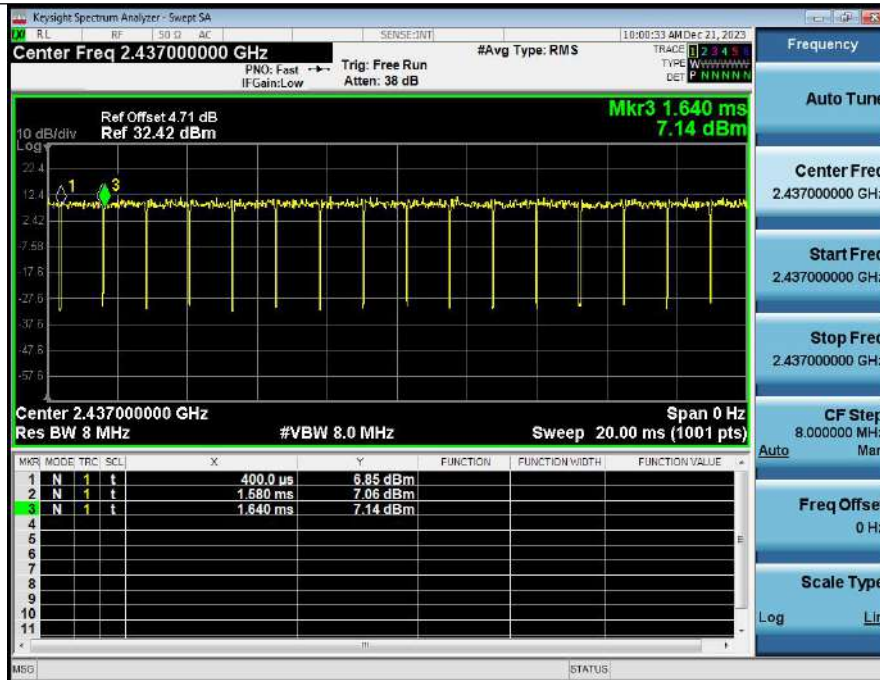
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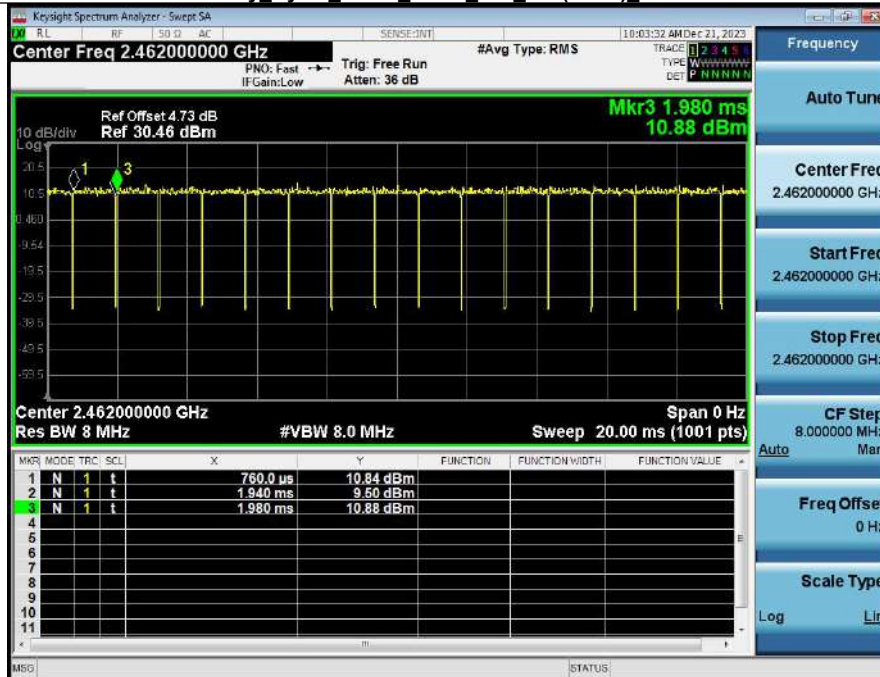
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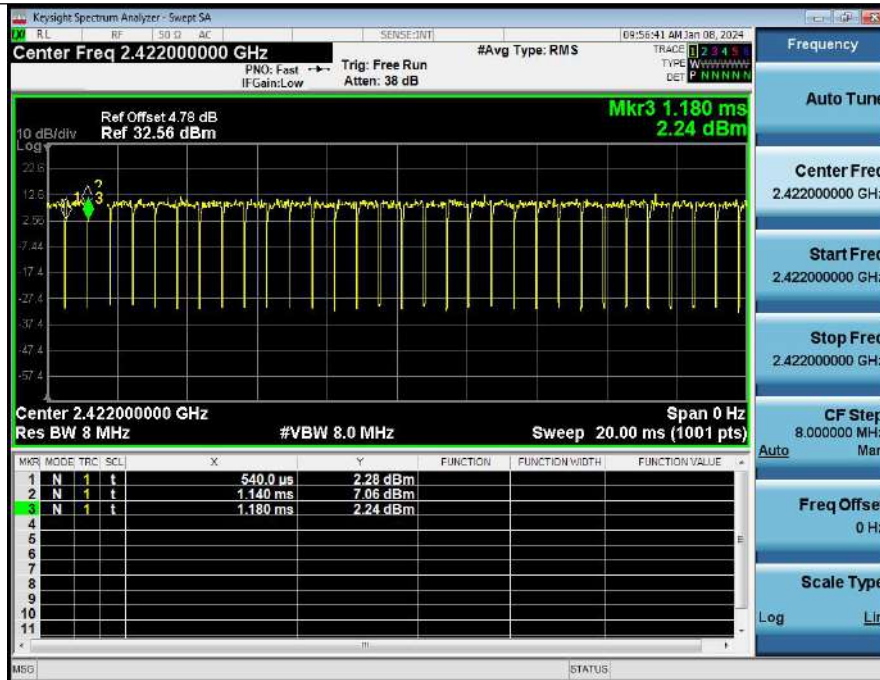
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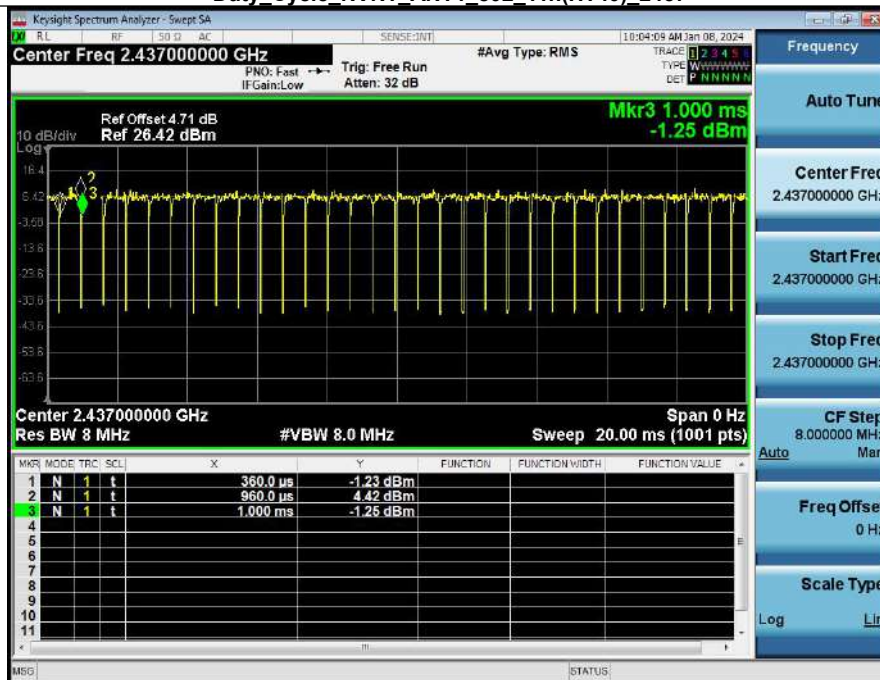
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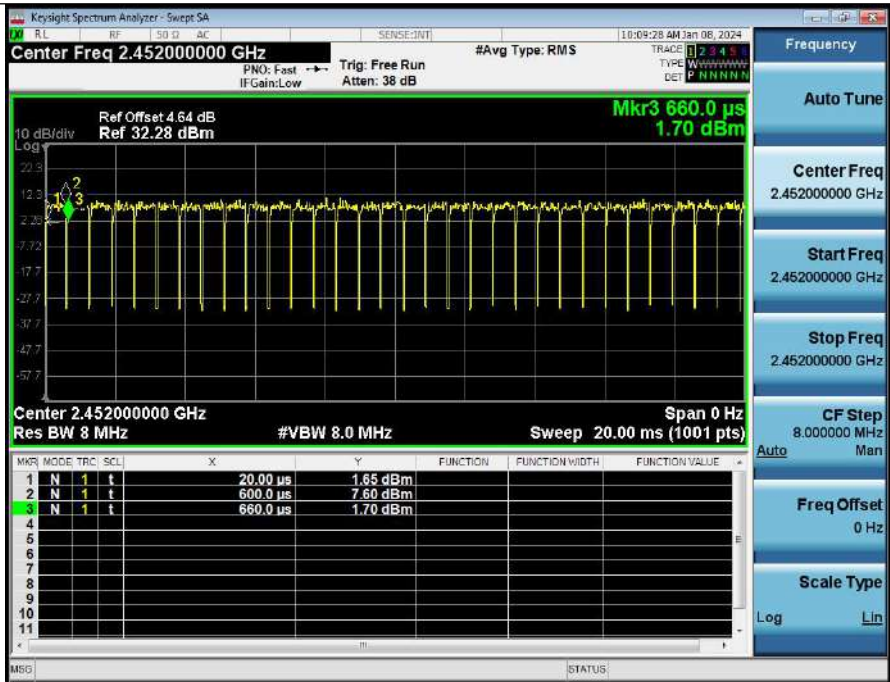
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2422



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2437



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2452



5. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/30kHz)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	-1.28	-11.28	8	Pass
NVNT	ANT1	802.11b	2437.00	-2.78	-12.78	8	Pass
NVNT	ANT1	802.11b	2462.00	0.47	-9.53	8	Pass
NVNT	ANT1	802.11g	2412.00	-7.54	-17.55	8	Pass
NVNT	ANT1	802.11g	2437.00	-10.85	-20.85	8	Pass
NVNT	ANT1	802.11g	2462.00	-6.95	-16.95	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-7.79	-17.79	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-11.59	-21.59	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-7.71	-17.71	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-10.25	-20.25	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-12.32	-22.32	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-11.30	-21.30	8	Pass



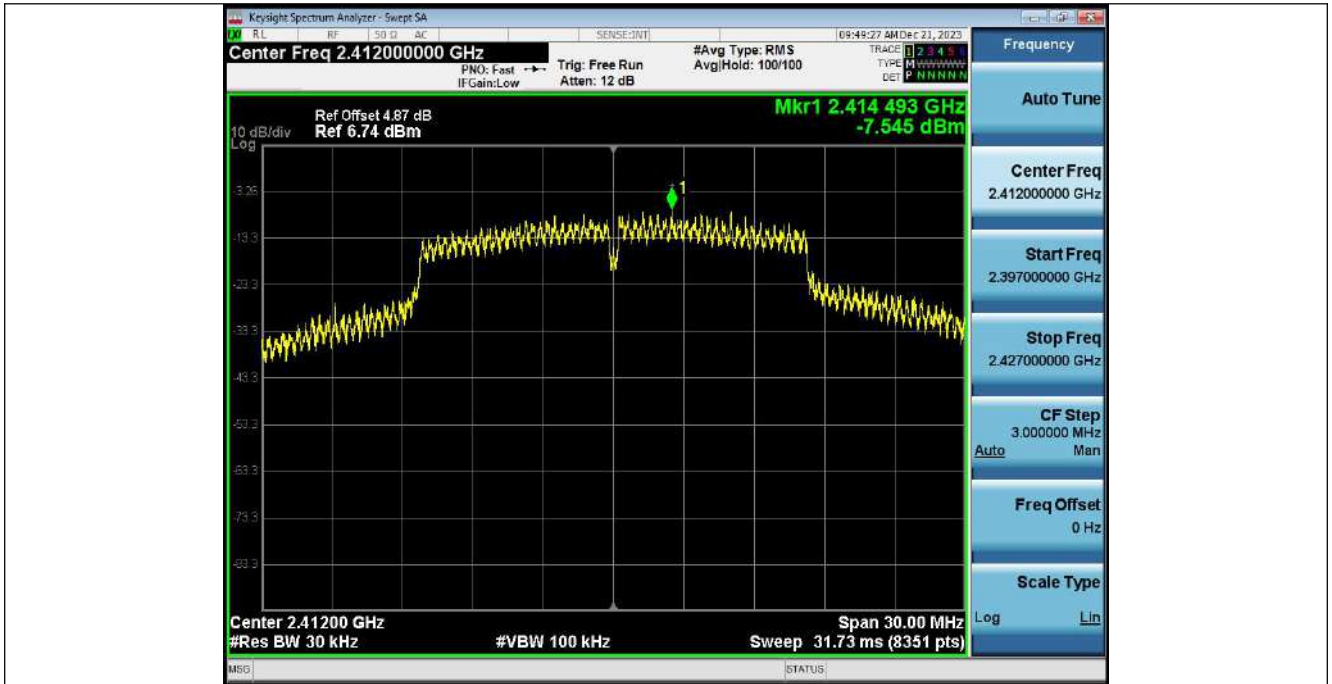
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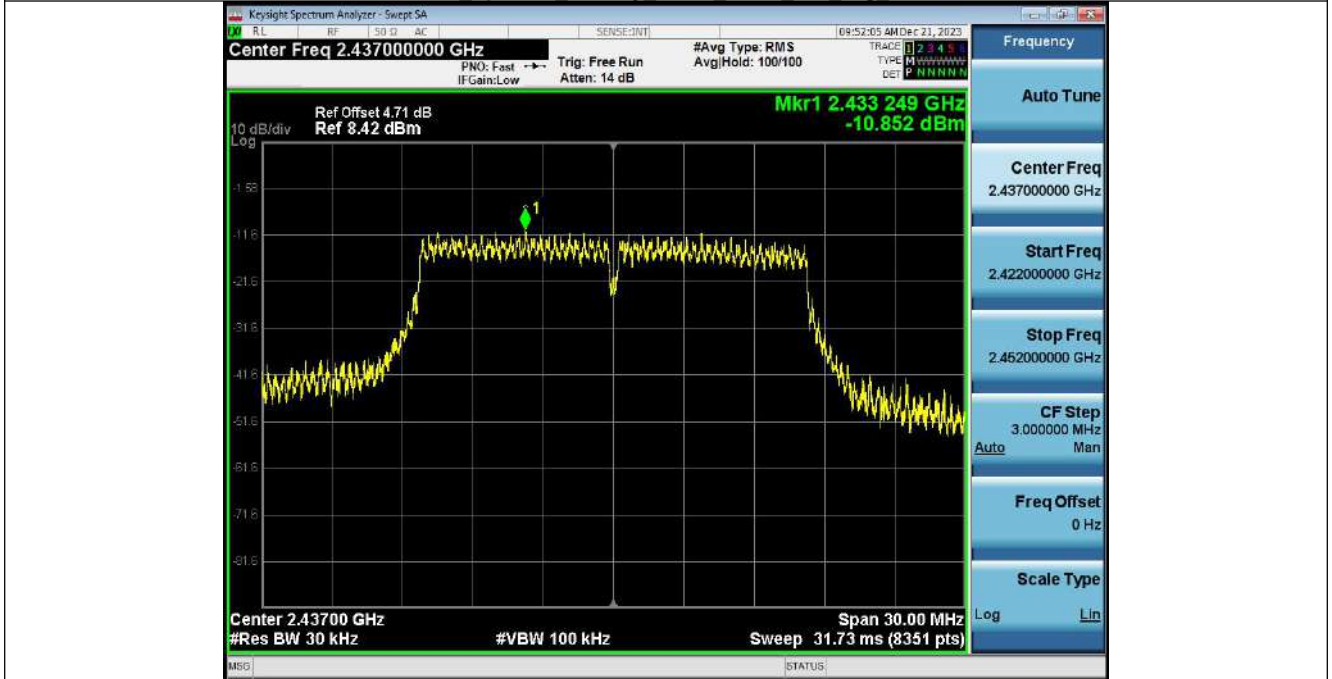
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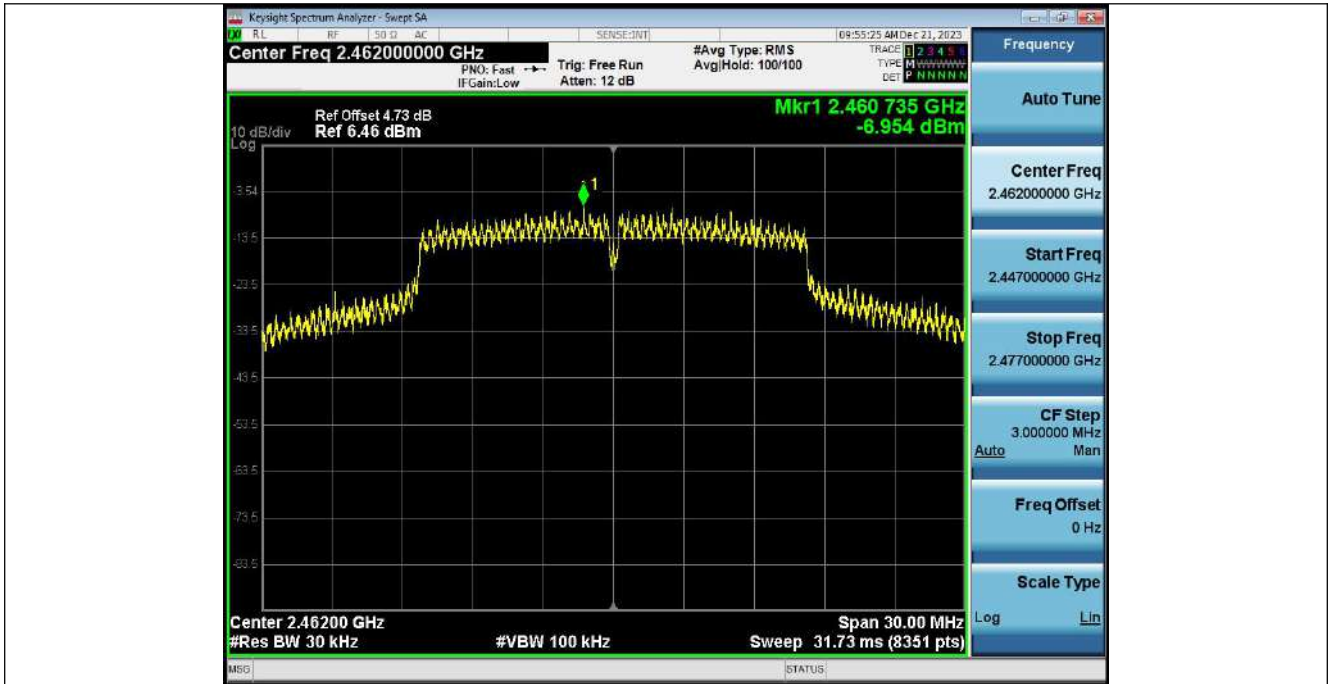
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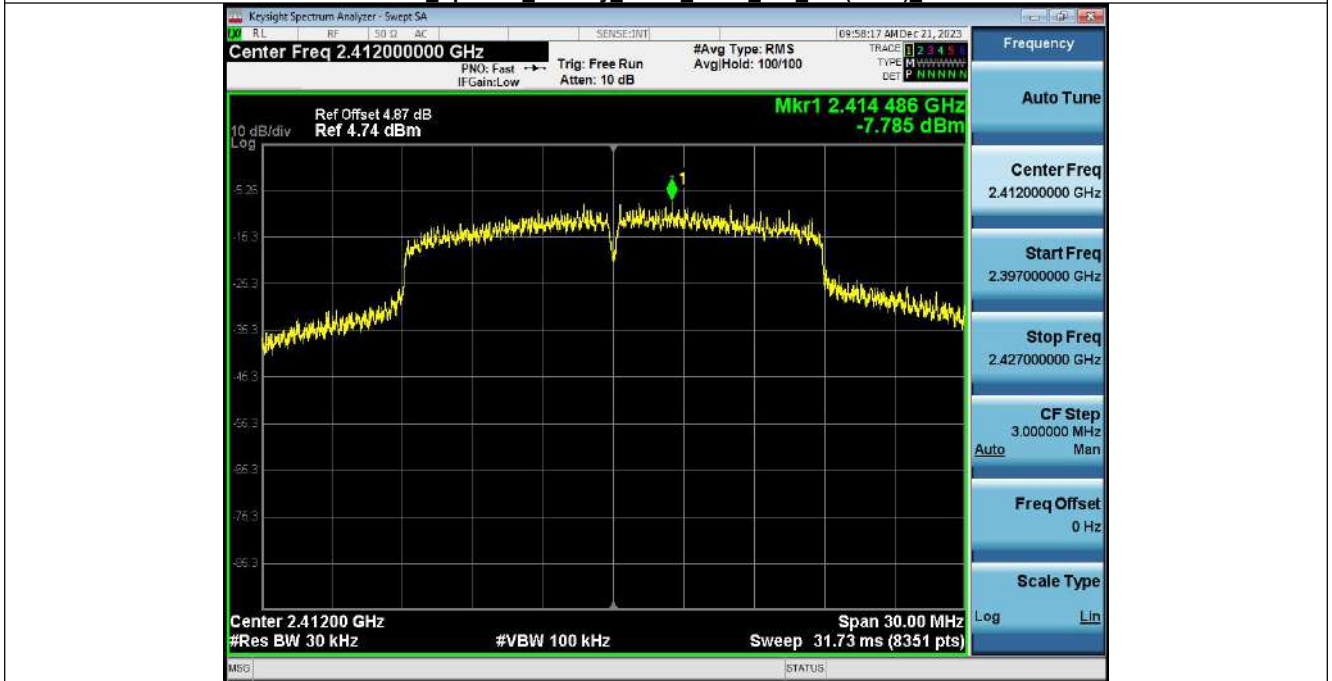
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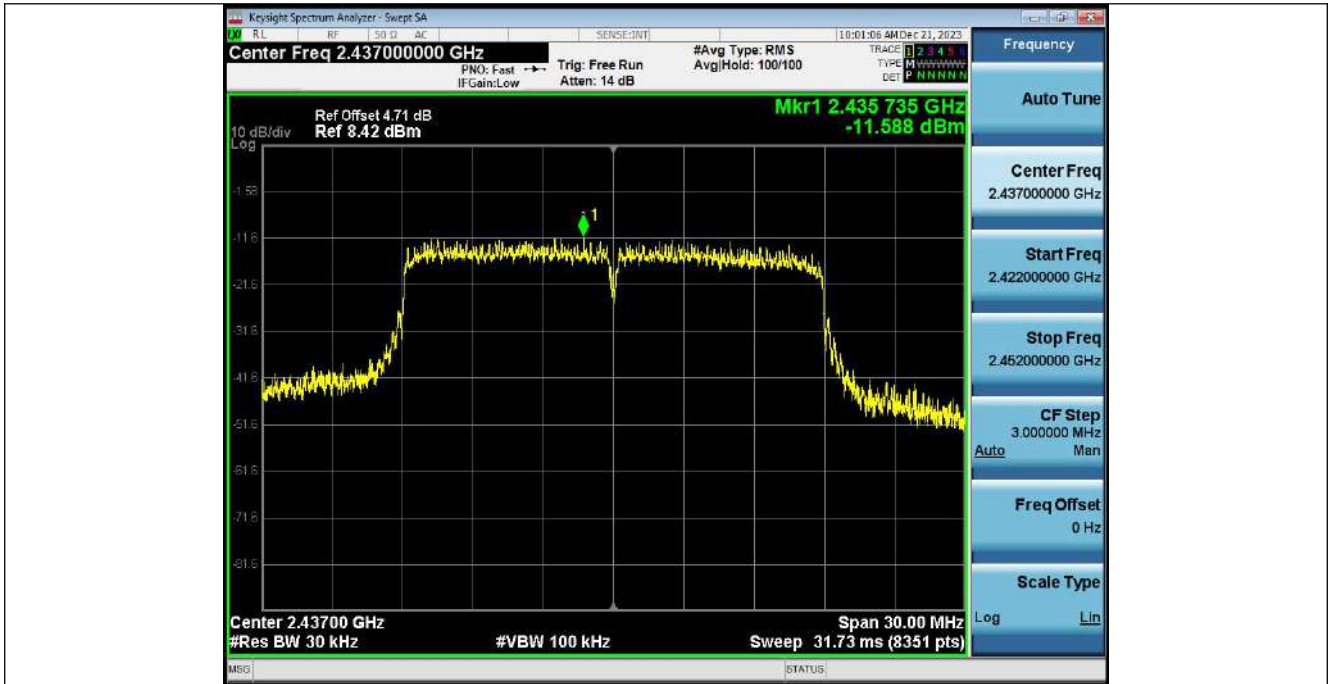
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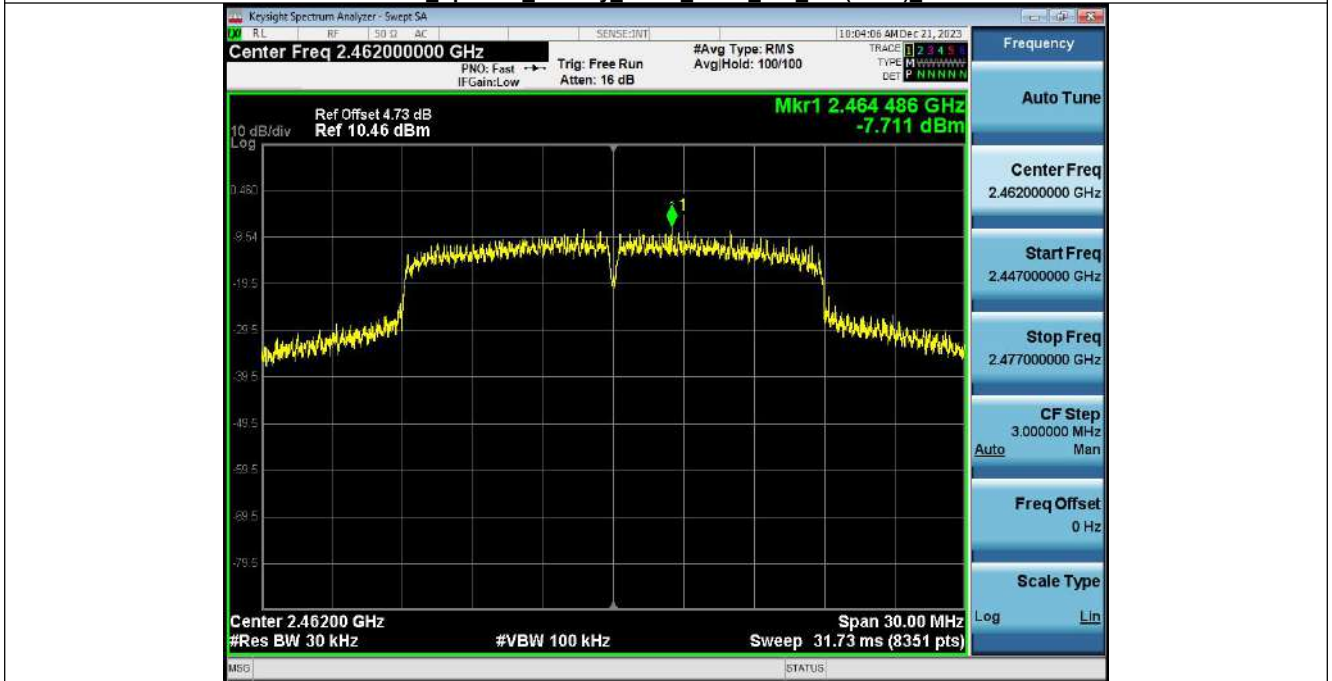
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437



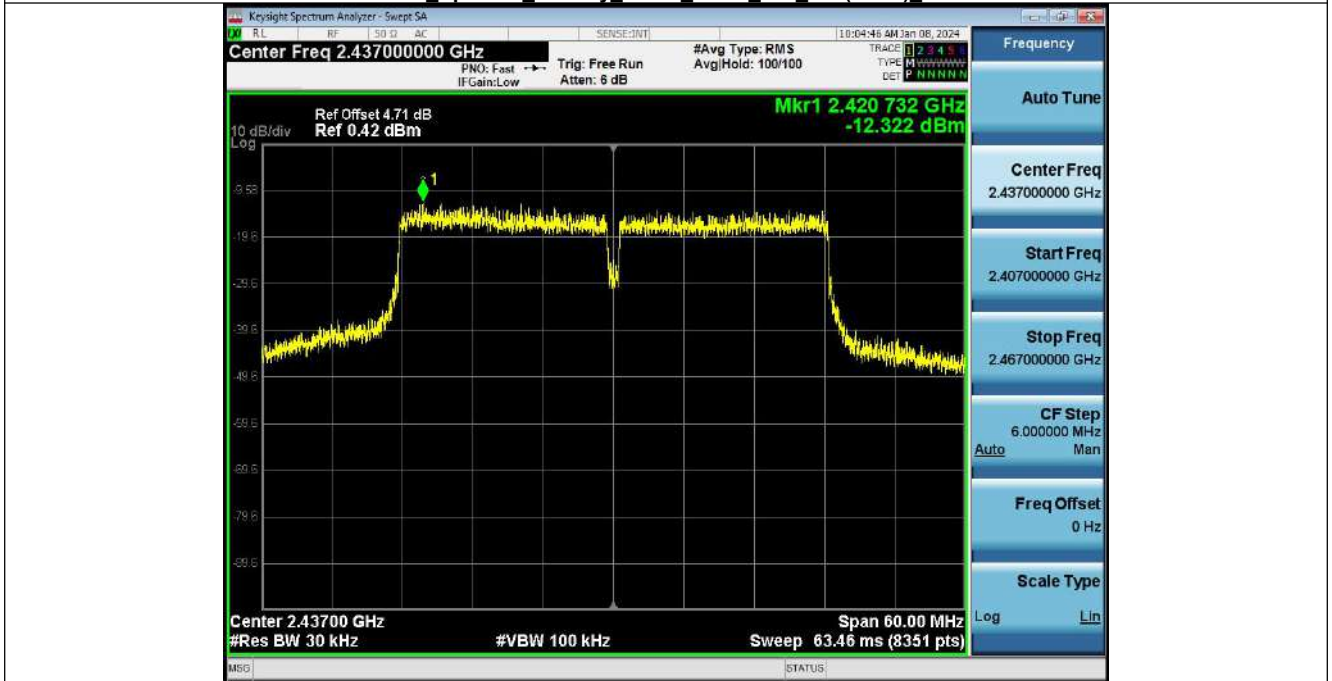
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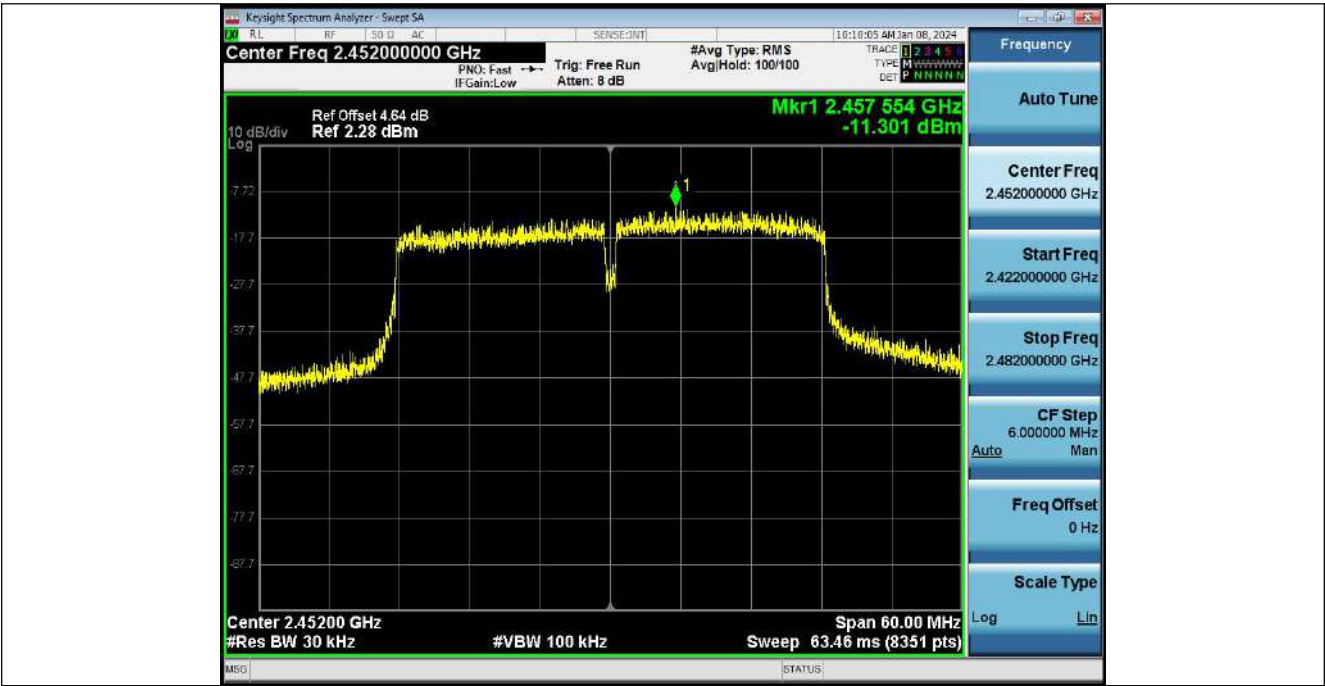
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2422



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	-32.520	-19.209	Pass
NVNT	ANT1	802.11b	2462.00	2483.536	-48.830	-19.404	Pass
NVNT	ANT1	802.11g	2412.00	2399.936	-25.168	-22.199	Pass
NVNT	ANT1	802.11g	2462.00	2483.632	-37.307	-23.281	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.936	-28.149	-22.935	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.584	-36.180	-23.253	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.496	-31.936	-25.145	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2483.612	-38.596	-26.375	Pass



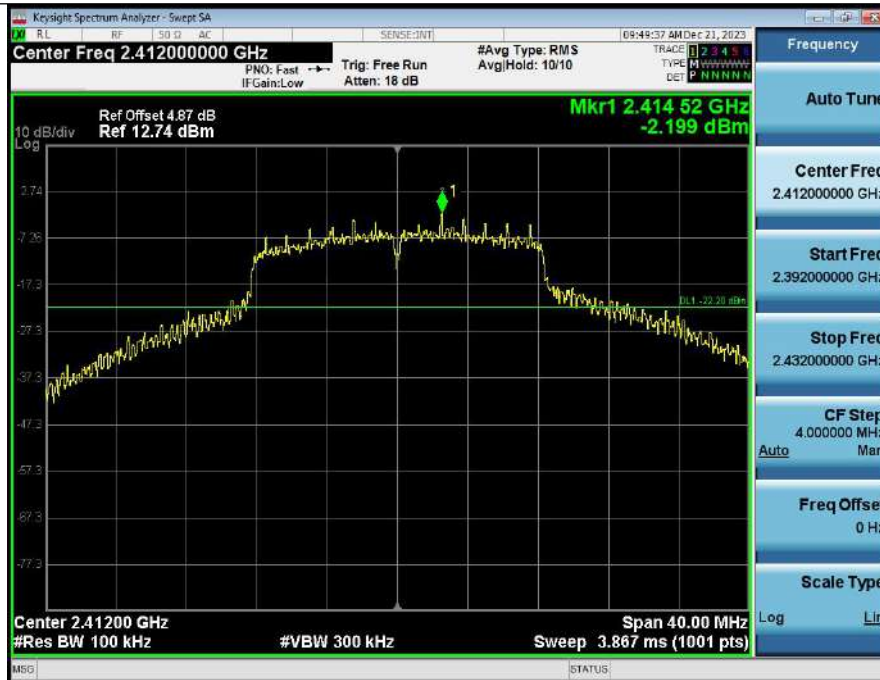
1 Reference_Level_NVNT_ANT1_802_11b_2462



2_Bandedge_NVNT_ANT1_802_11b_2462



1_Reference_Level_NVNT_ANT1_802_11g_2412



2_Bandedge_NVNT_ANT1_802_11g_2412



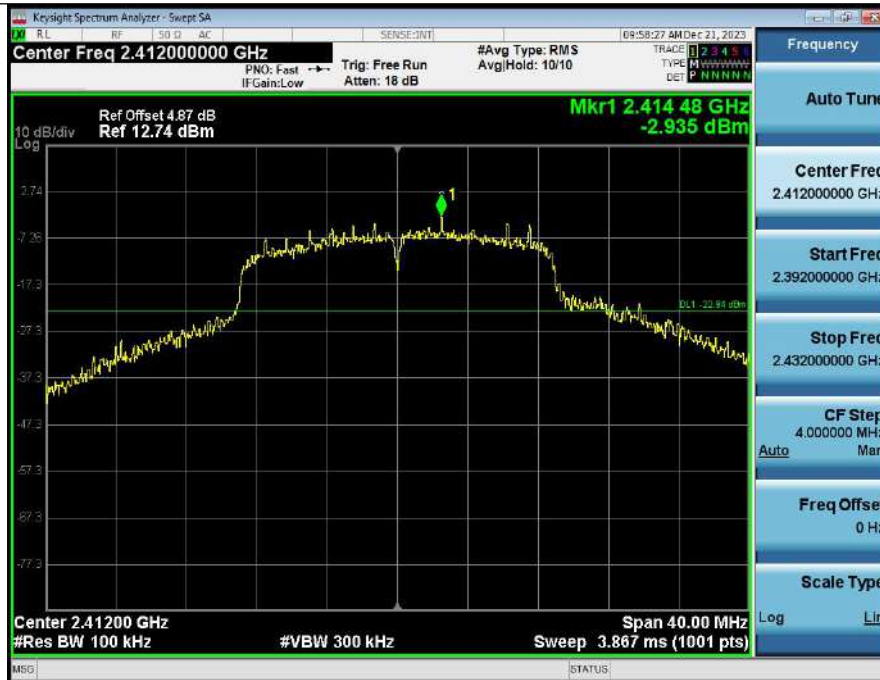
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2_Bandedge_NVNT_ANT1_802_11g_2462



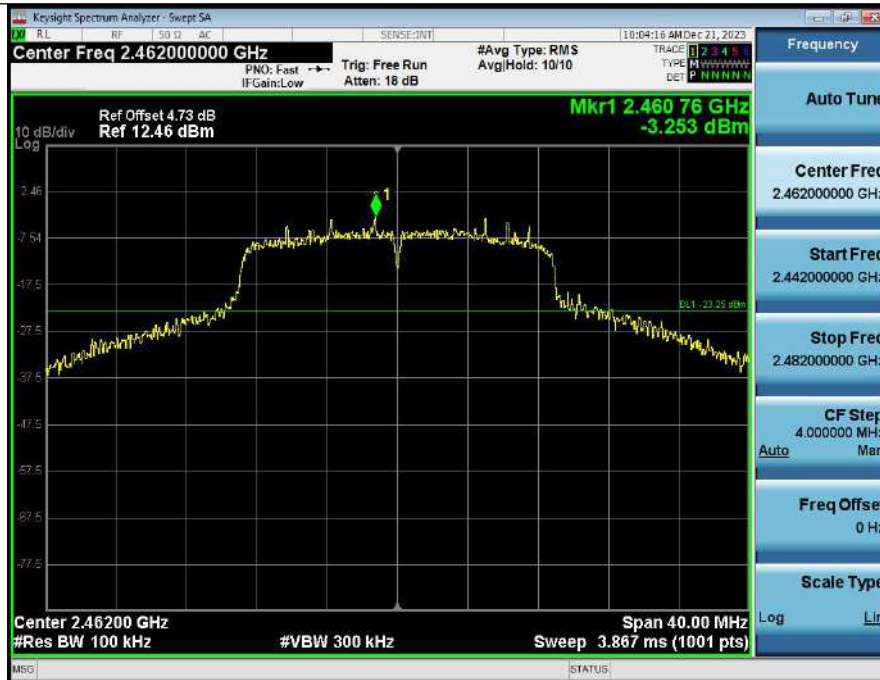
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2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462



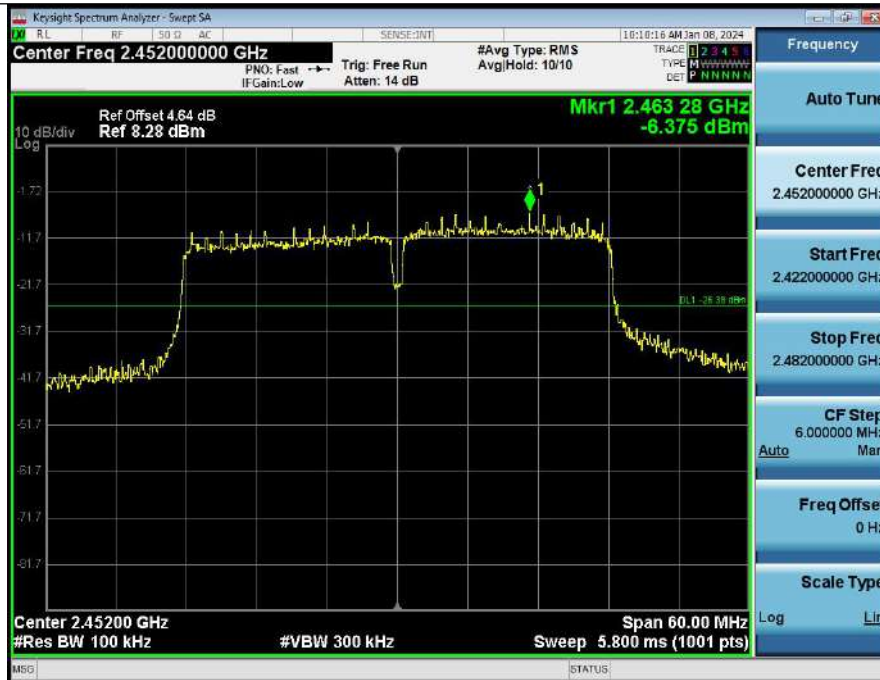
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2_Bandedge_NVNT_ANT1_802_11n(HT40)_2422



1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452



2_Bandedge_NVNT_ANT1_802_11n(HT40)_2452



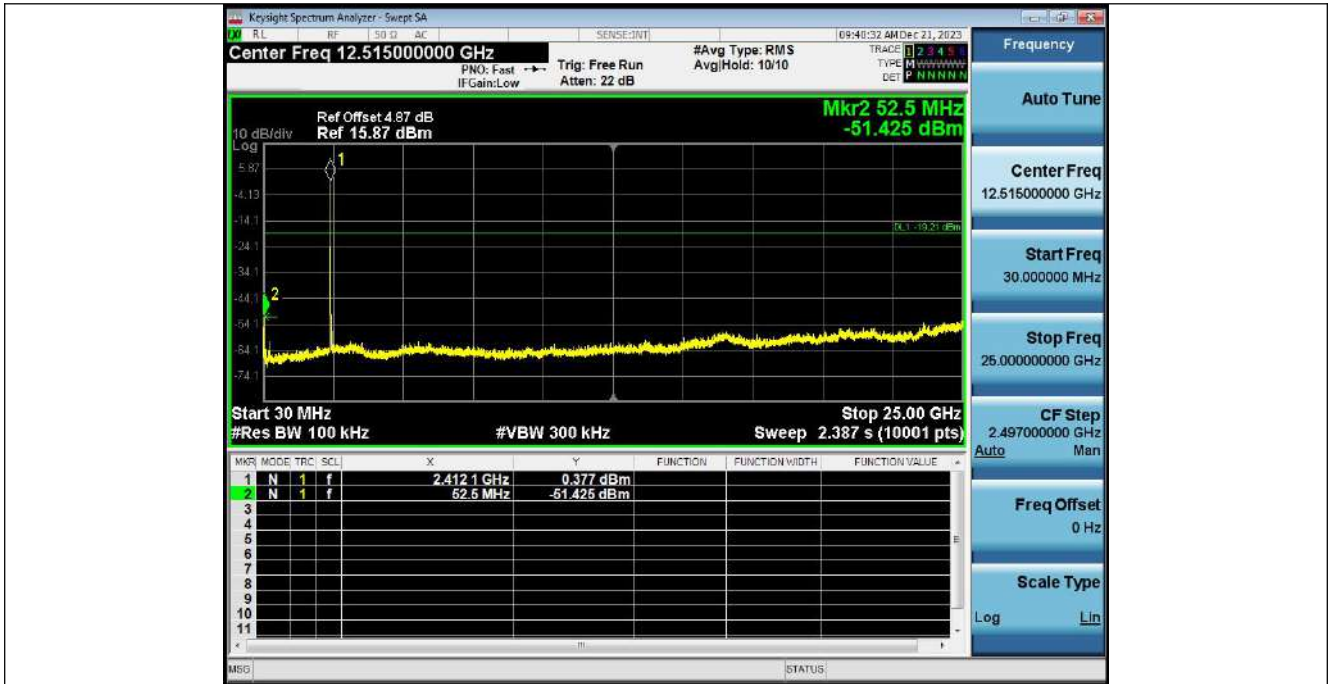
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	52.473	-51.425	-19.209	Pass
NVNT	ANT1	802.11b	2437.00	724.166	-35.123	-22.256	Pass
NVNT	ANT1	802.11b	2462.00	729.160	-36.508	-19.404	Pass
NVNT	ANT1	802.11g	2412.00	831.537	-46.397	-22.199	Pass
NVNT	ANT1	802.11g	2437.00	721.669	-31.503	-25.539	Pass
NVNT	ANT1	802.11g	2462.00	711.681	-33.659	-23.281	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	52.473	-51.752	-22.935	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	52.473	-52.422	-27.041	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	52.473	-51.343	-23.253	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	49.976	-53.052	-25.145	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	49.976	-54.216	-27.405	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	49.976	-52.702	-26.375	Pass

1 Reference_Level_NVNT_ANT1_802_11b_2412



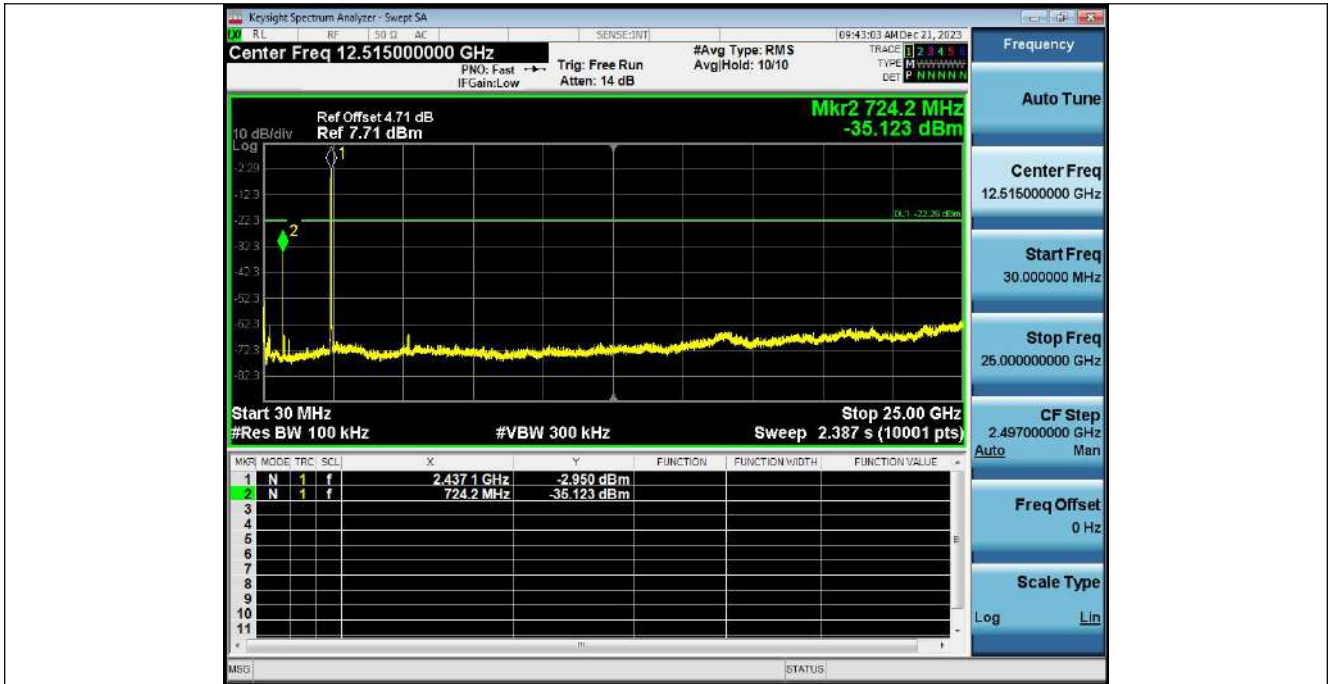
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1 Reference Level NVNT ANT1 802 11b 2437



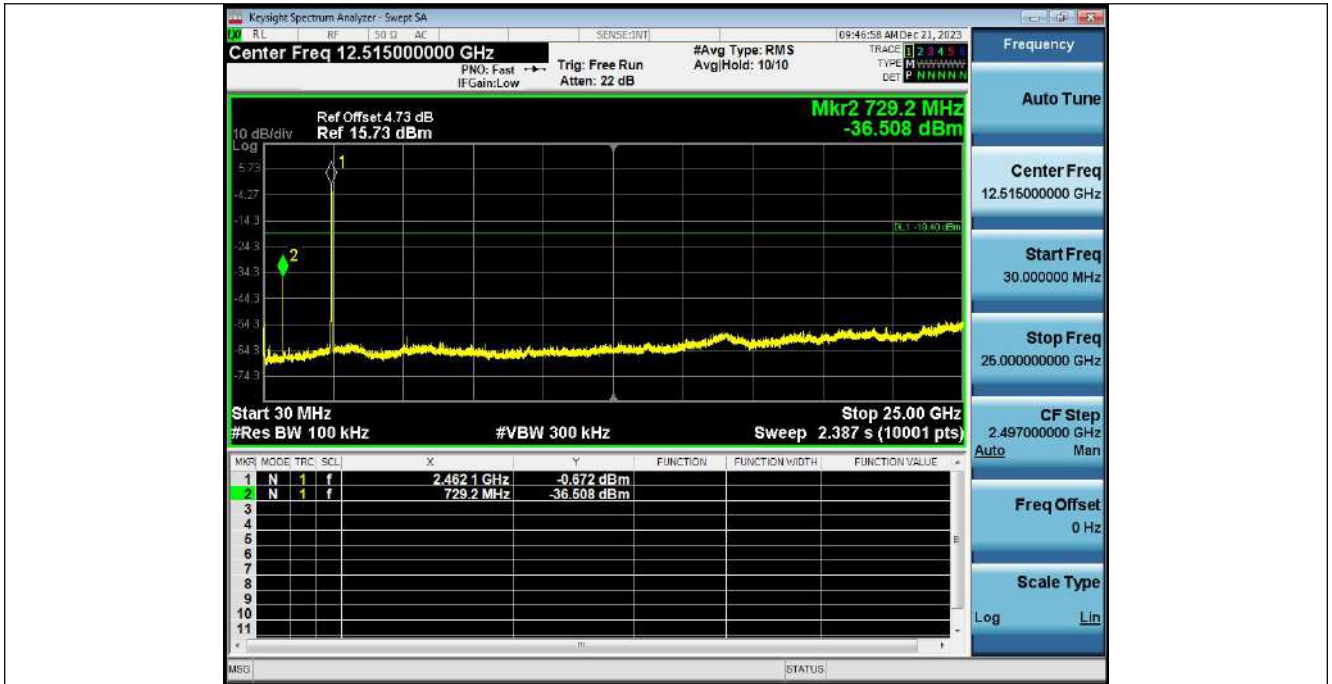
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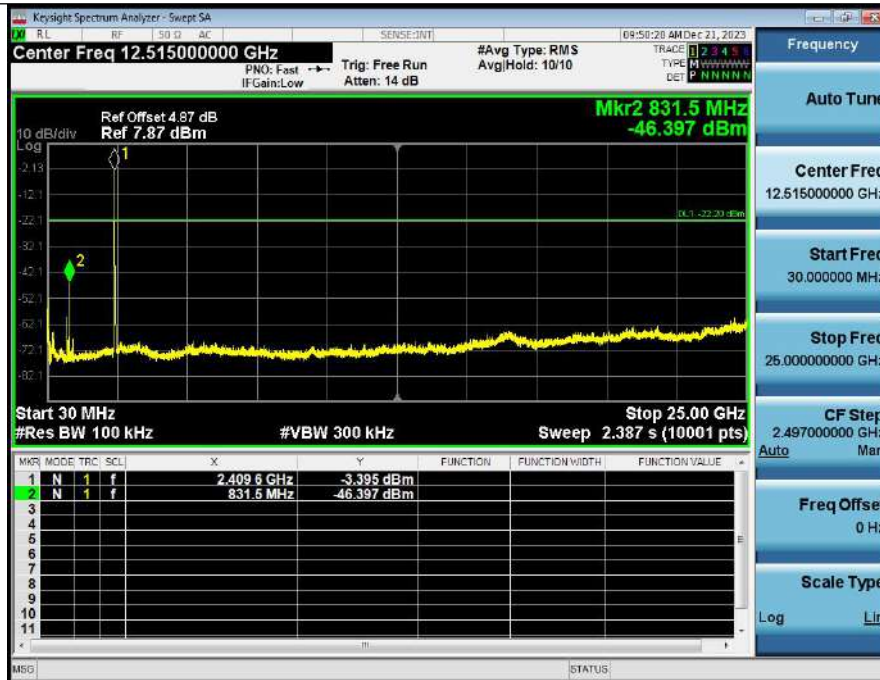
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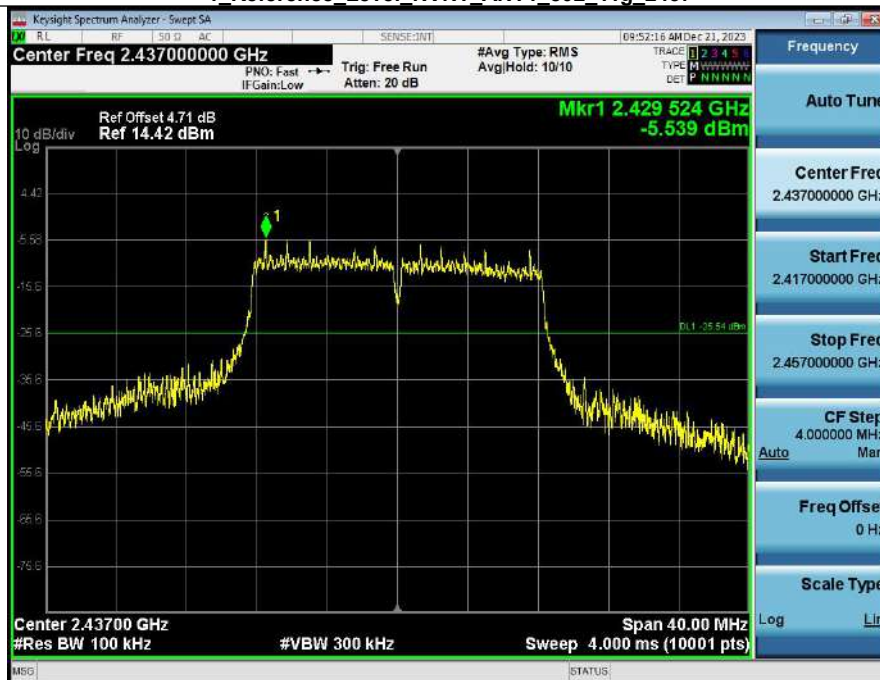
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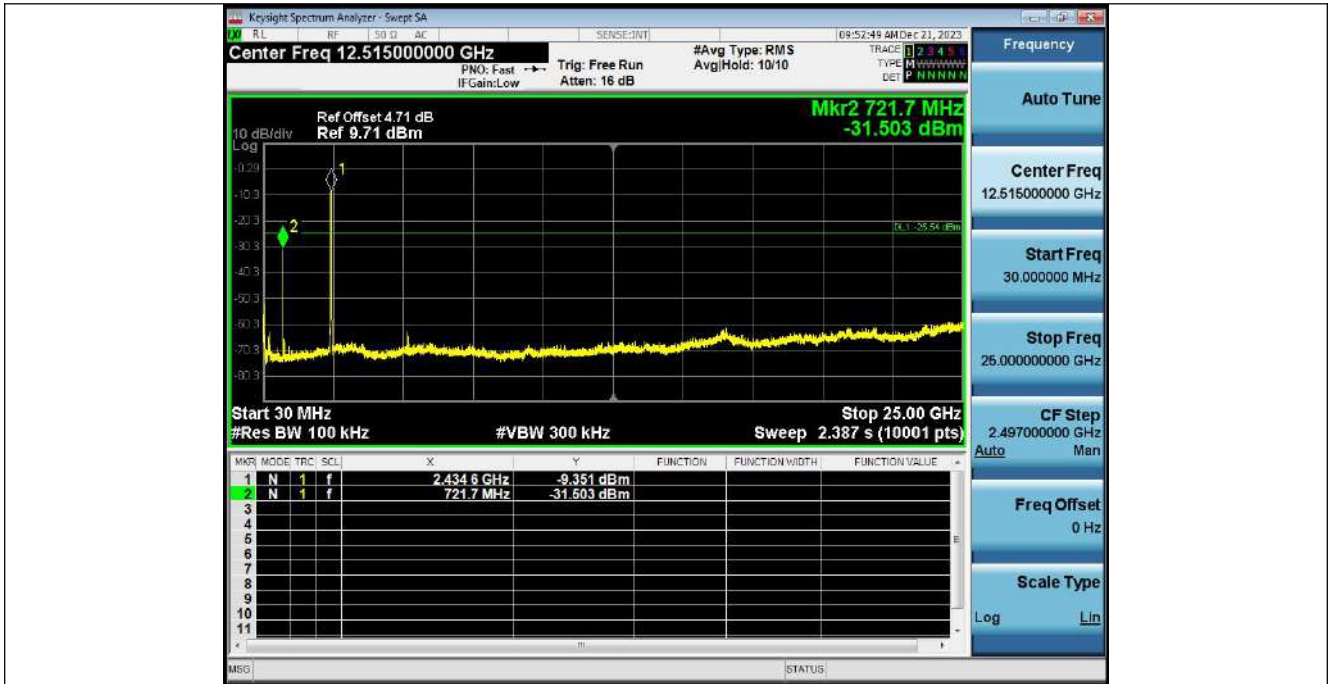
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1 Reference Level NVNT_ANT1_802_11g_2437



2 Spurious Emission NVNT_ANT1_802_11g_2437



1 Reference Level NVNT_ANT1_802_11g_2462



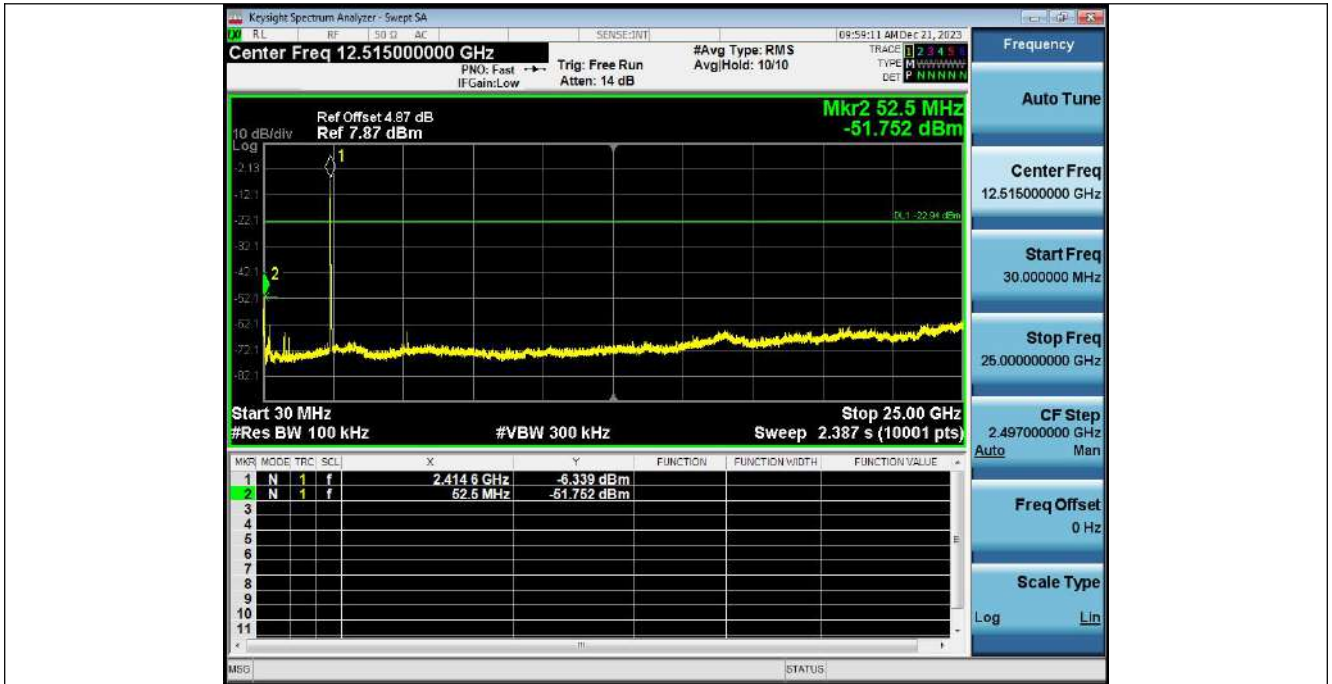
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1 Reference Level NVNT_ANT1_802_11n(HT20)_2412



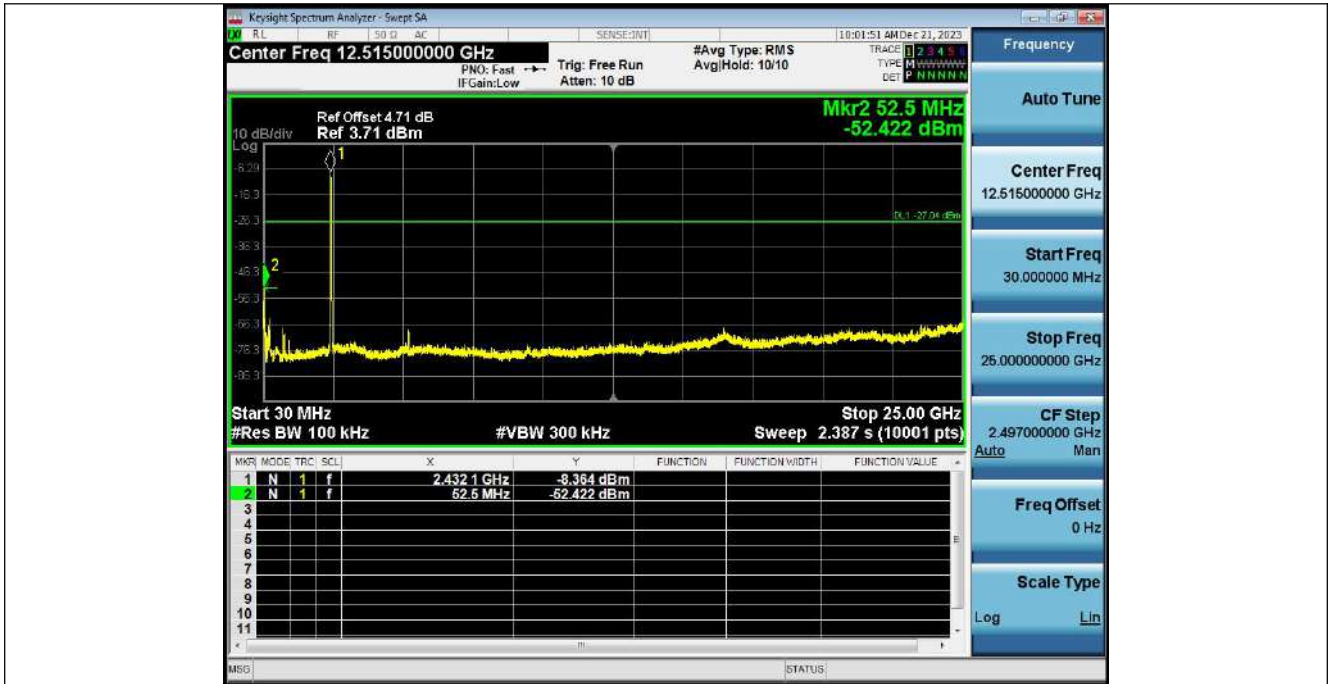
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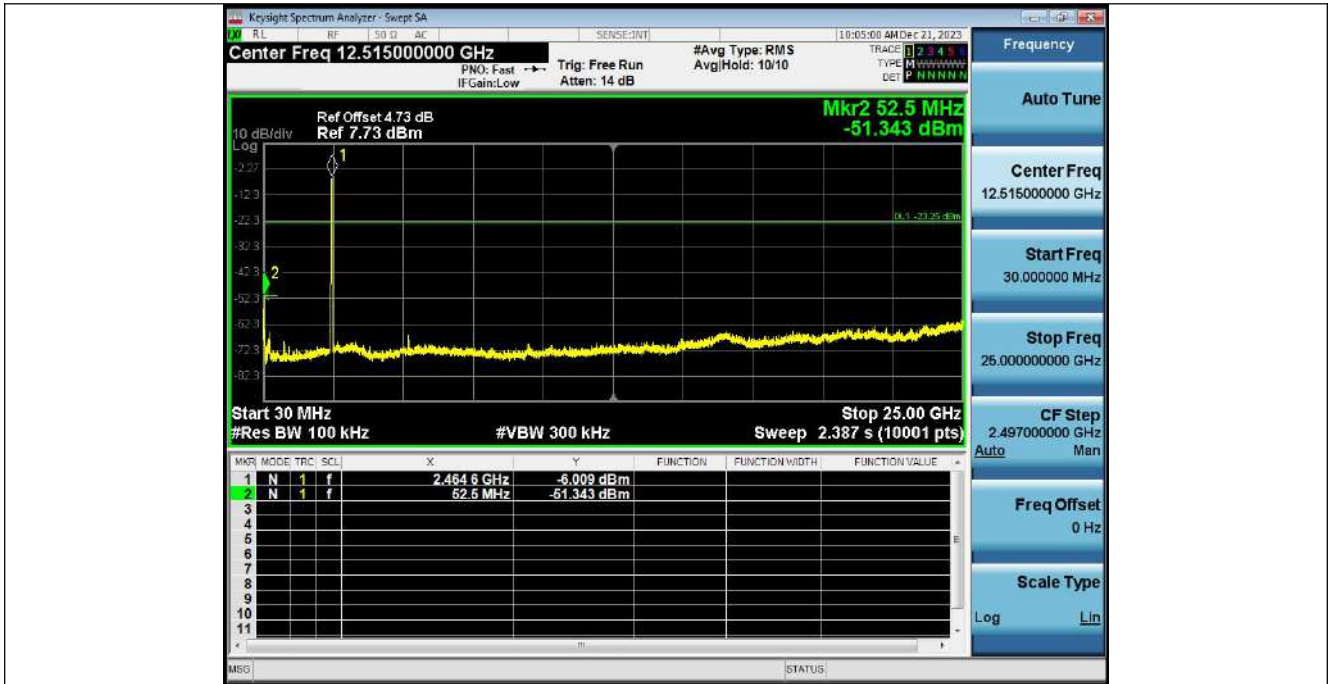
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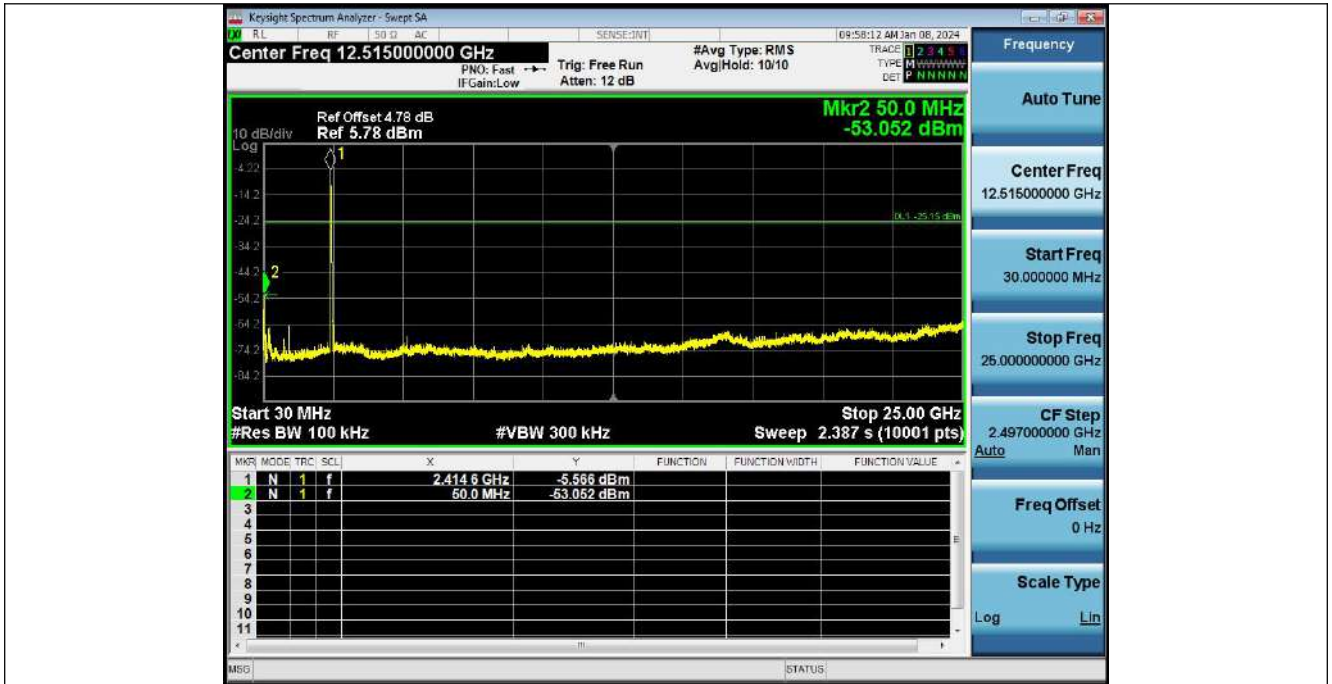
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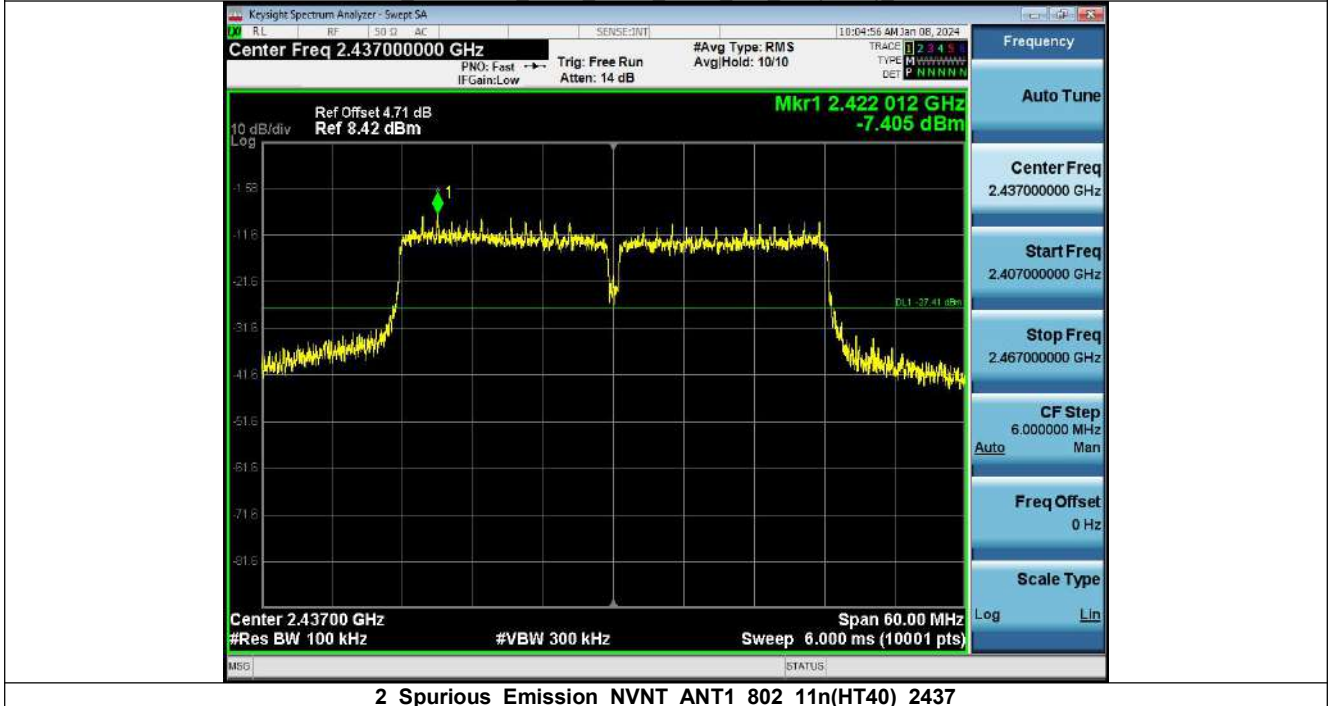
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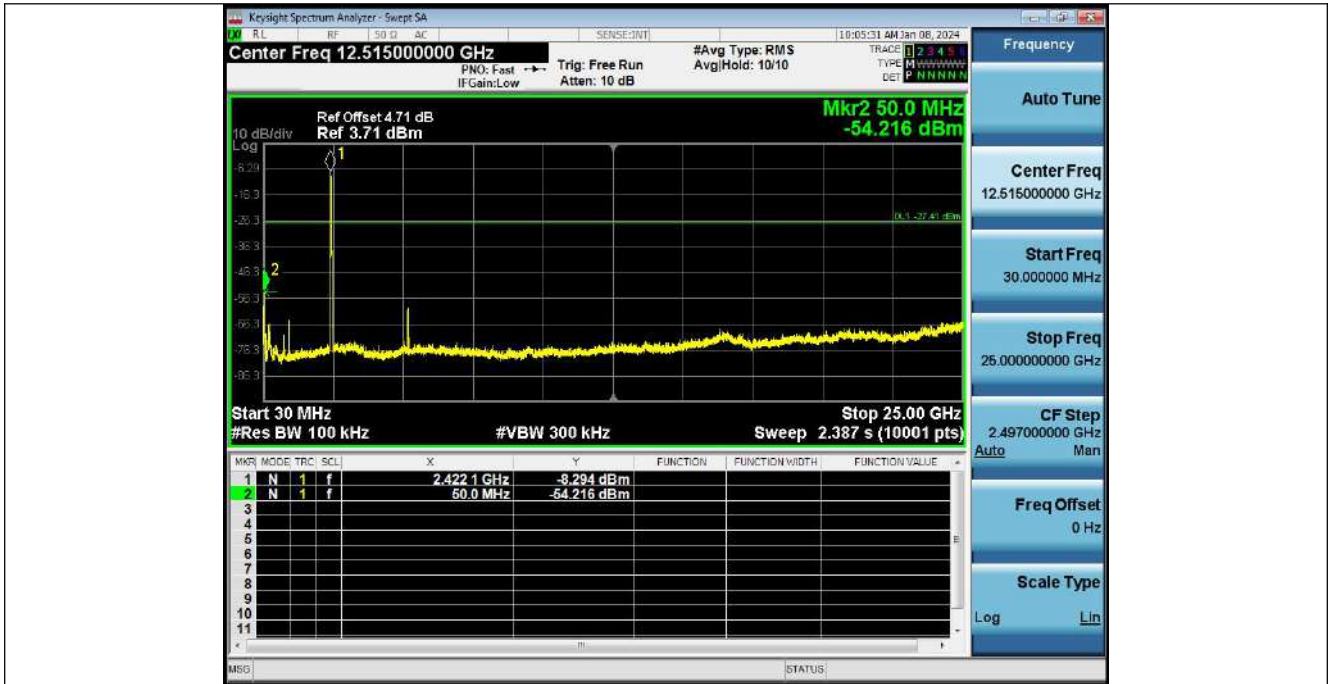
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1 Reference Level NVNT_ANT1_802_11n(HT40)_2437



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

