

Report No.:NCT26023379XE1-2
FCC ID:2BC96NB-HPS01-W02
FCC_2.4G_WIFI (Part15.247) Test Data

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1. -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	8.73	500	Pass
NVNT	ANT1	802.11b	2437.00	9.00	500	Pass
NVNT	ANT1	802.11b	2462.00	9.04	500	Pass
NVNT	ANT1	802.11g	2412.00	16.37	500	Pass
NVNT	ANT1	802.11g	2437.00	16.31	500	Pass
NVNT	ANT1	802.11g	2462.00	16.28	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	16.50	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	16.00	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	16.34	500	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	17.21	500	Pass
NVNT	ANT1	802.11ax(HE20)	2437.00	17.62	500	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	17.65	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	35.84	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.98	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	36.11	500	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	37.50	500	Pass
NVNT	ANT1	802.11ax(HE40)	2437.00	37.85	500	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	37.67	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_11ax(HE20)_2412



-6dB_Bandwidth_NVNT_ANT1_802_11ax(HE20)_2437



-6dB_Bandwidth_NVNT_ANT1_802_11ax(HE20)_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



-6dB_Bandwidth_NVNT_ANT1_802_11ax(HE40)_2422



-6dB_Bandwidth_NVNT_ANT1_802_11ax(HE40)_2437

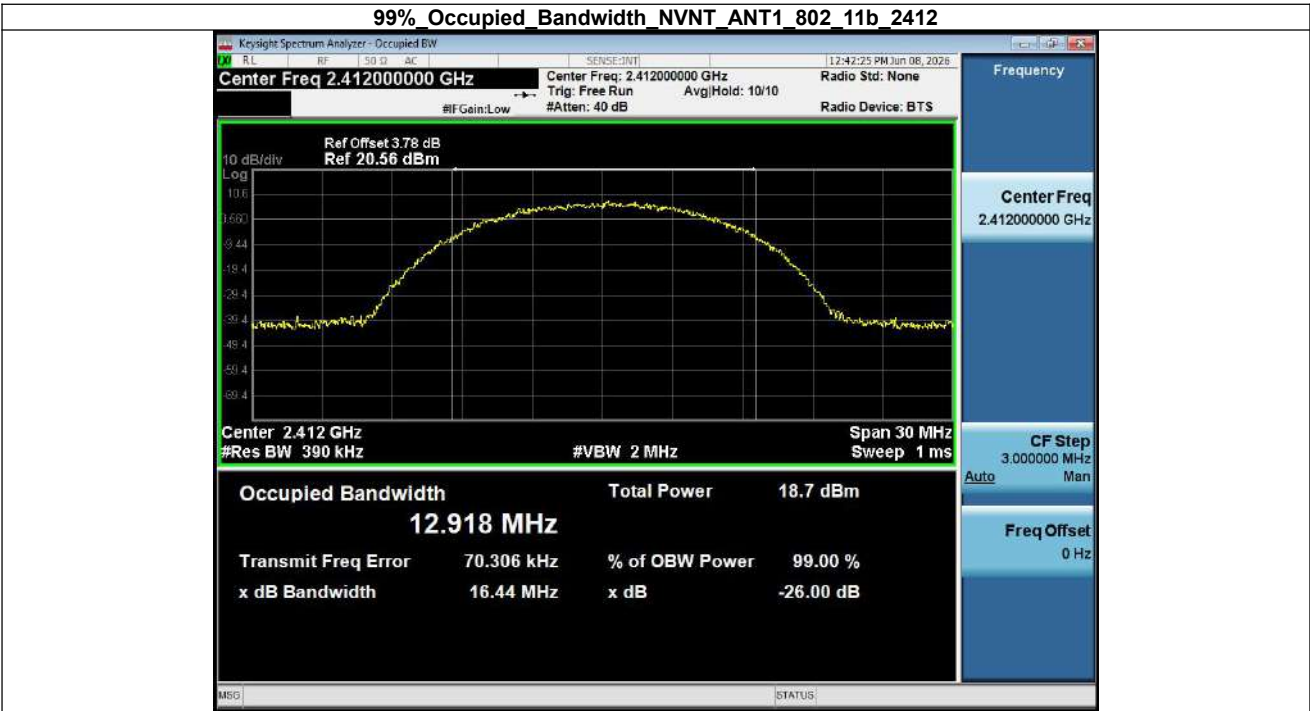


-6dB_Bandwidth_NVNT_ANT1_802_11ax(HE40)_2452



2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	12.918
NVNT	ANT1	802.11b	2437.00	13.025
NVNT	ANT1	802.11b	2462.00	12.887
NVNT	ANT1	802.11g	2412.00	17.663
NVNT	ANT1	802.11g	2437.00	17.791
NVNT	ANT1	802.11g	2462.00	17.885
NVNT	ANT1	802.11n(HT20)	2412.00	17.559
NVNT	ANT1	802.11n(HT20)	2437.00	17.613
NVNT	ANT1	802.11n(HT20)	2462.00	17.318
NVNT	ANT1	802.11ax(HE20)	2412.00	18.308
NVNT	ANT1	802.11ax(HE20)	2437.00	18.362
NVNT	ANT1	802.11ax(HE20)	2462.00	18.377
NVNT	ANT1	802.11n(HT40)	2422.00	36.800
NVNT	ANT1	802.11n(HT40)	2437.00	36.849
NVNT	ANT1	802.11n(HT40)	2452.00	36.803
NVNT	ANT1	802.11ax(HE40)	2422.00	38.401
NVNT	ANT1	802.11ax(HE40)	2437.00	38.259
NVNT	ANT1	802.11ax(HE40)	2452.00	38.279



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_11ax(HE20)_2412



99% Occupied Bandwidth NVNT_ANT1_802_11ax(HE20)_2437



99% Occupied Bandwidth NVNT_ANT1_802_11ax(HE20)_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



99% Occupied Bandwidth_NVNT_ANT1_802_11ax(HE40)_2422



99% Occupied Bandwidth NVNT_ANT1_802_11ax(HE40)_2437

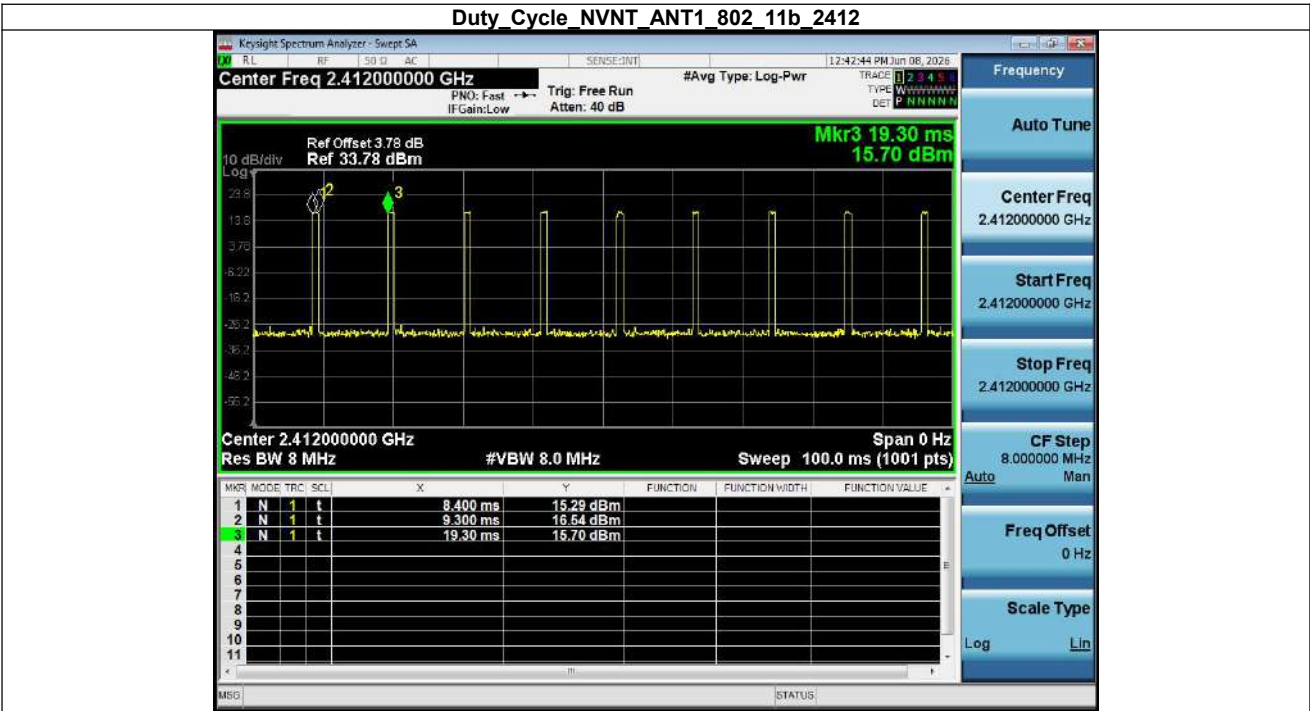


99% Occupied Bandwidth NVNT_ANT1_802_11ax(HE40)_2452

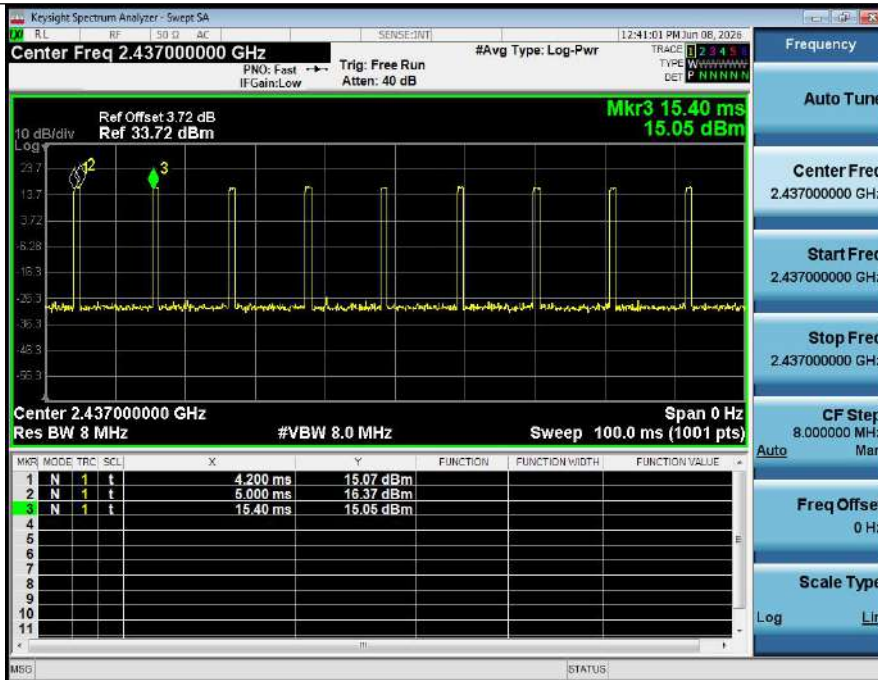


3. Duty Cycle

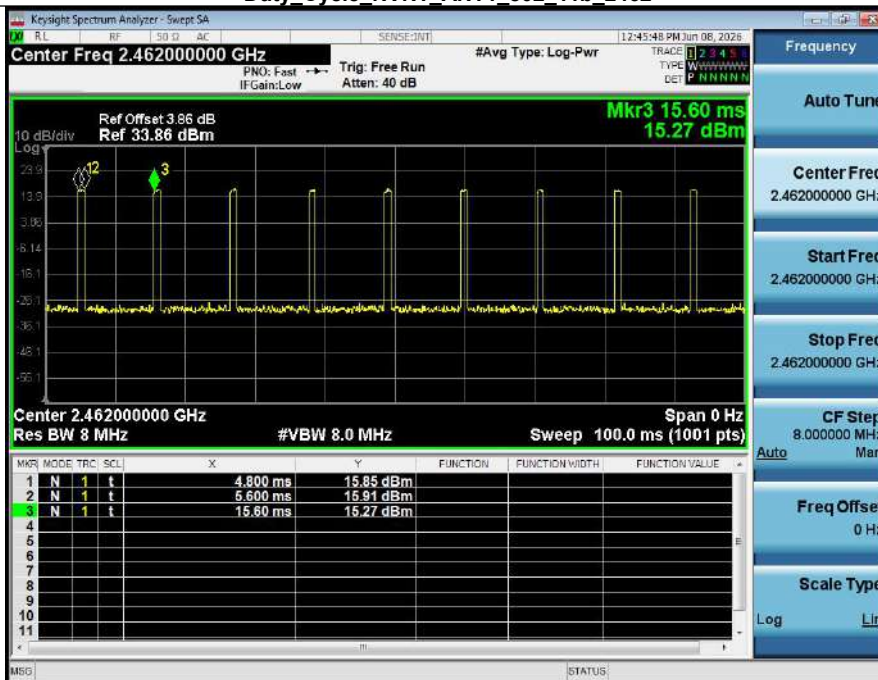
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	8.26	10.83
NVNT	ANT1	802.11b	2437.00	7.14	11.46
NVNT	ANT1	802.11b	2462.00	7.41	11.30
NVNT	ANT1	802.11g	2412.00	12.28	9.11
NVNT	ANT1	802.11g	2437.00	13.16	8.81
NVNT	ANT1	802.11g	2462.00	12.28	9.11
NVNT	ANT1	802.11n(HT20)	2412.00	3.81	14.19
NVNT	ANT1	802.11n(HT20)	2437.00	4.76	13.22
NVNT	ANT1	802.11n(HT20)	2462.00	4.76	13.22
NVNT	ANT1	802.11ax(HE20)	2412.00	4.76	13.22
NVNT	ANT1	802.11ax(HE20)	2437.00	5.66	12.47
NVNT	ANT1	802.11ax(HE20)	2462.00	4.72	13.26
NVNT	ANT1	802.11n(HT40)	2422.00	4.72	13.26
NVNT	ANT1	802.11n(HT40)	2437.00	4.72	13.26
NVNT	ANT1	802.11n(HT40)	2452.00	4.72	13.26
NVNT	ANT1	802.11ax(HE40)	2422.00	28.78	5.41
NVNT	ANT1	802.11ax(HE40)	2437.00	27.34	5.63
NVNT	ANT1	802.11ax(HE40)	2452.00	23.49	6.29



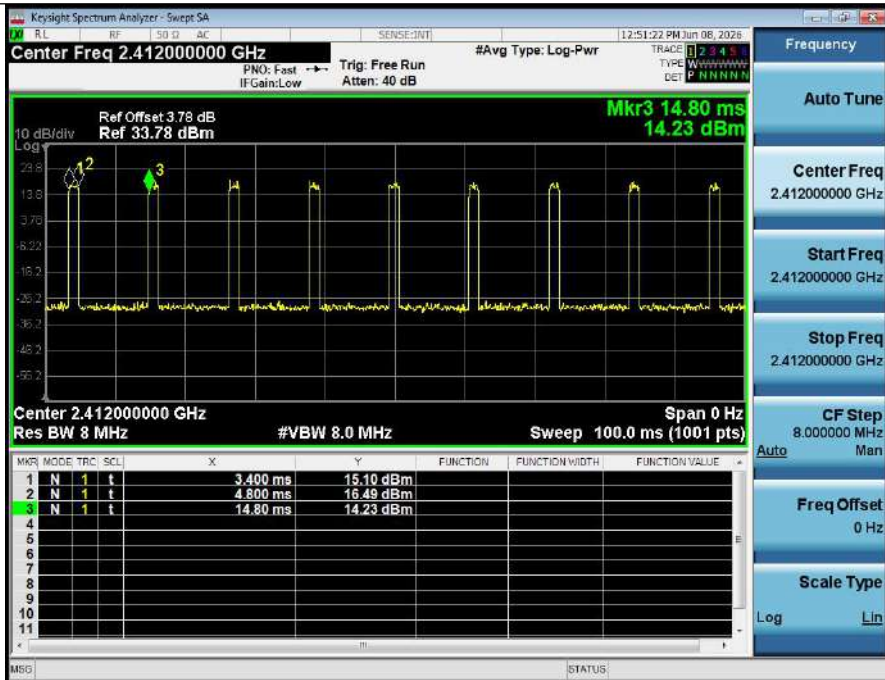
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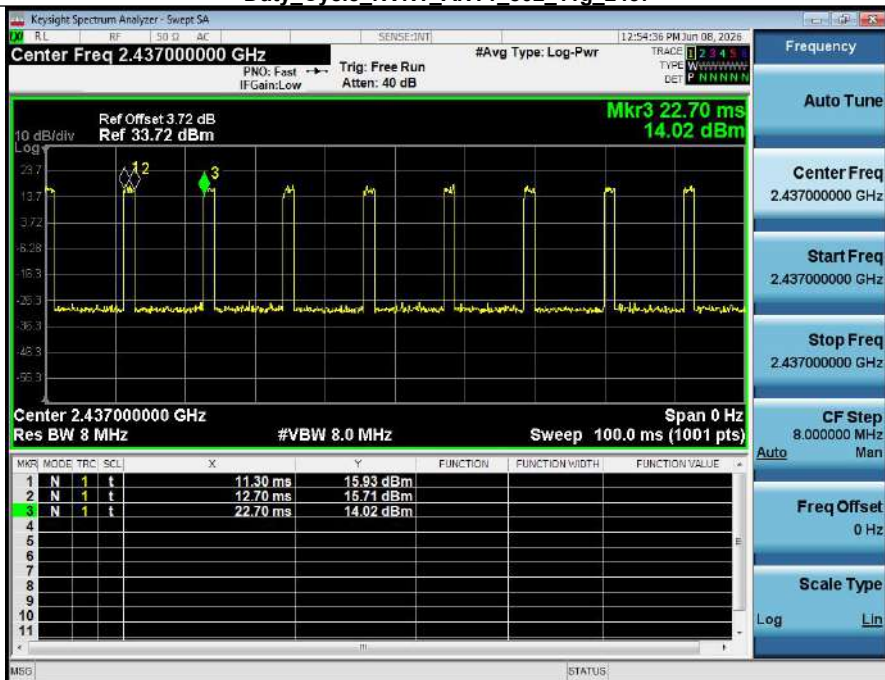
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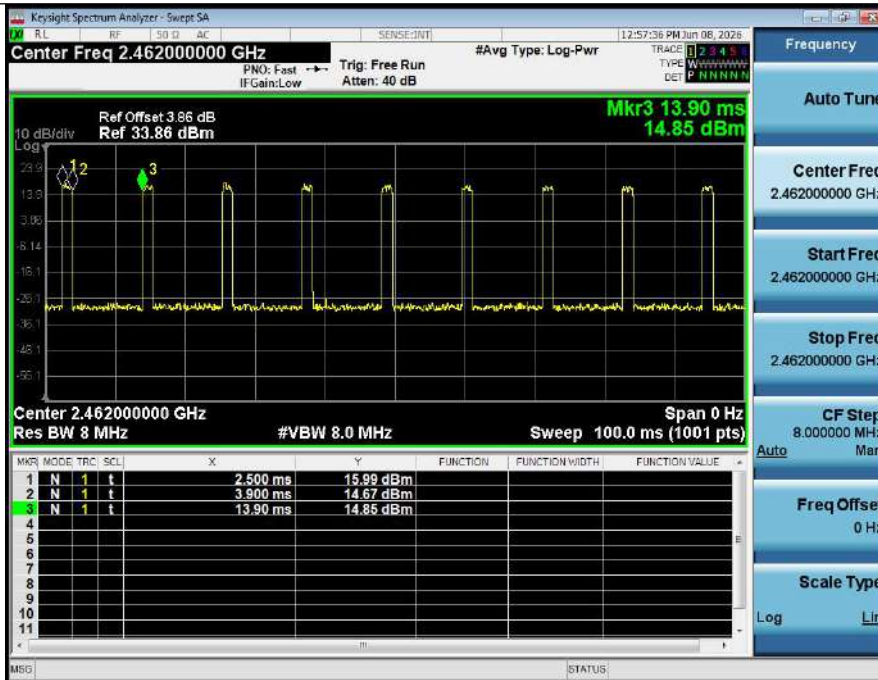
Duty_Cycle_NVNT_ANT1_802_11g_2412



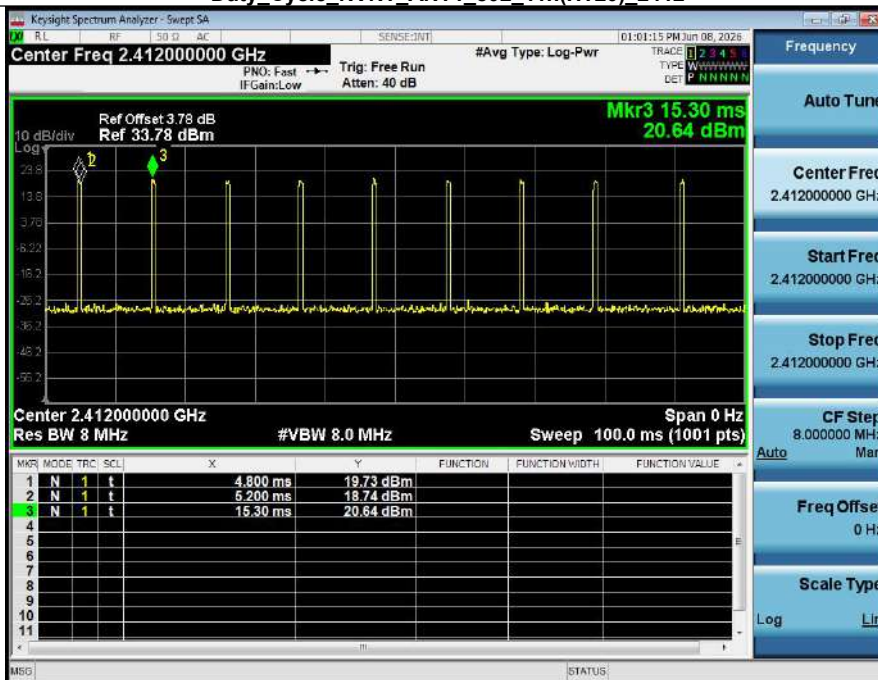
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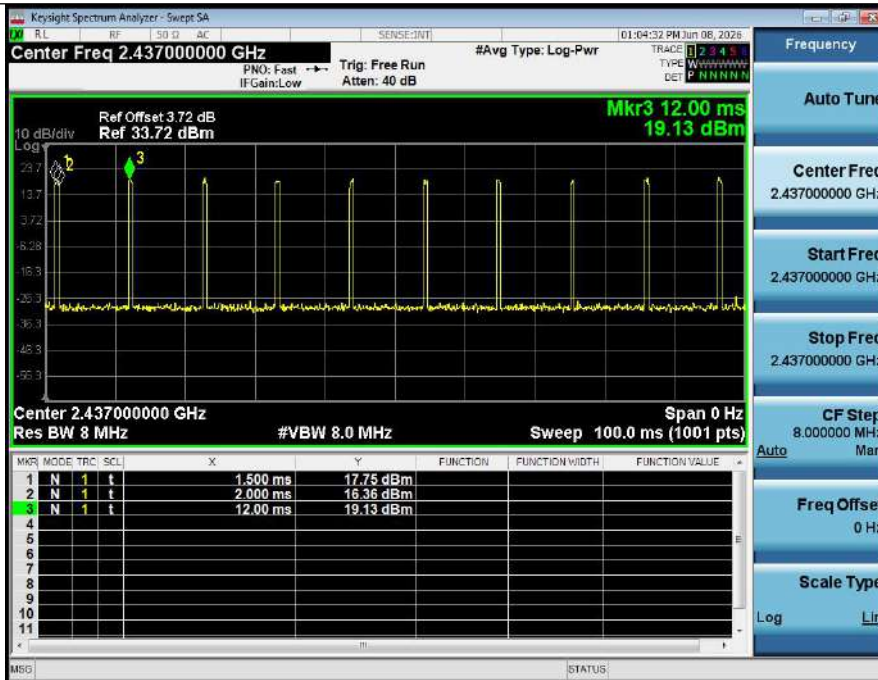
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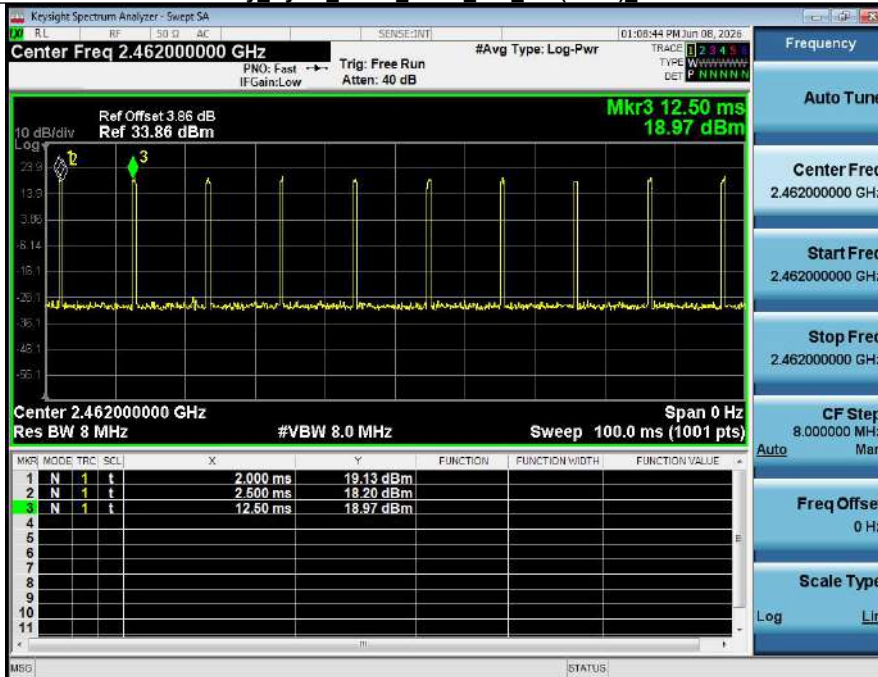
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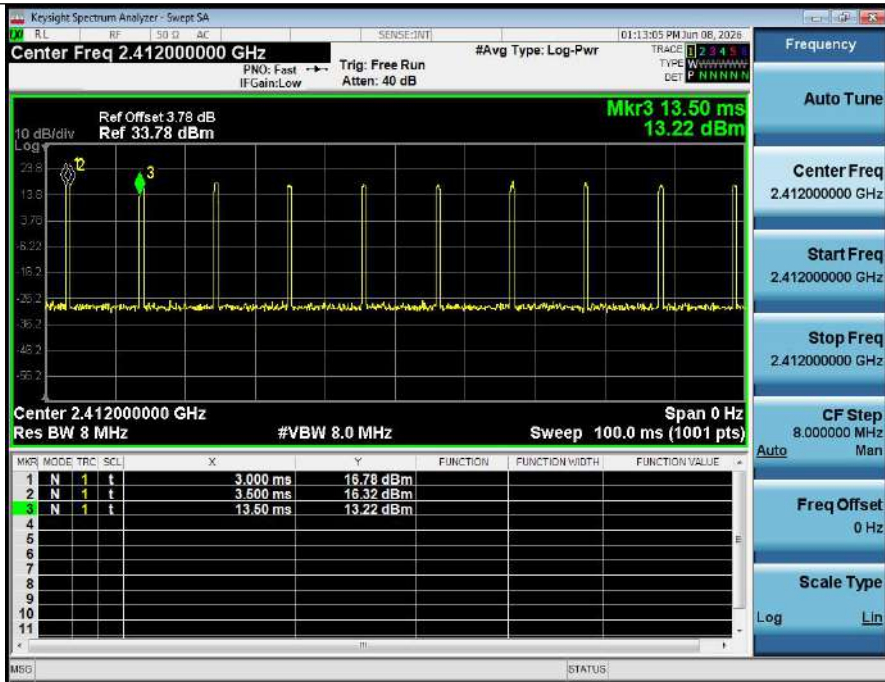
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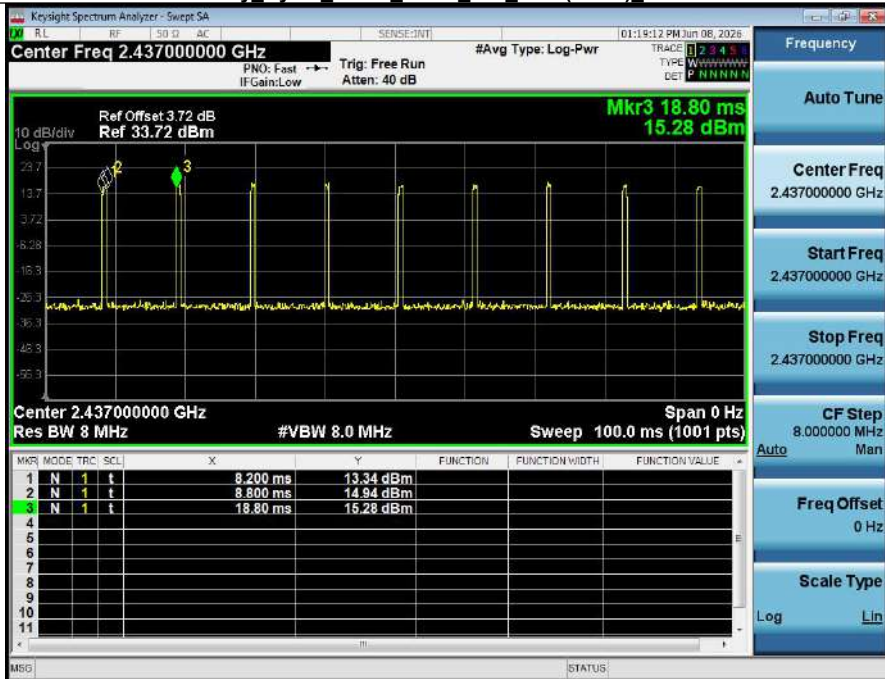
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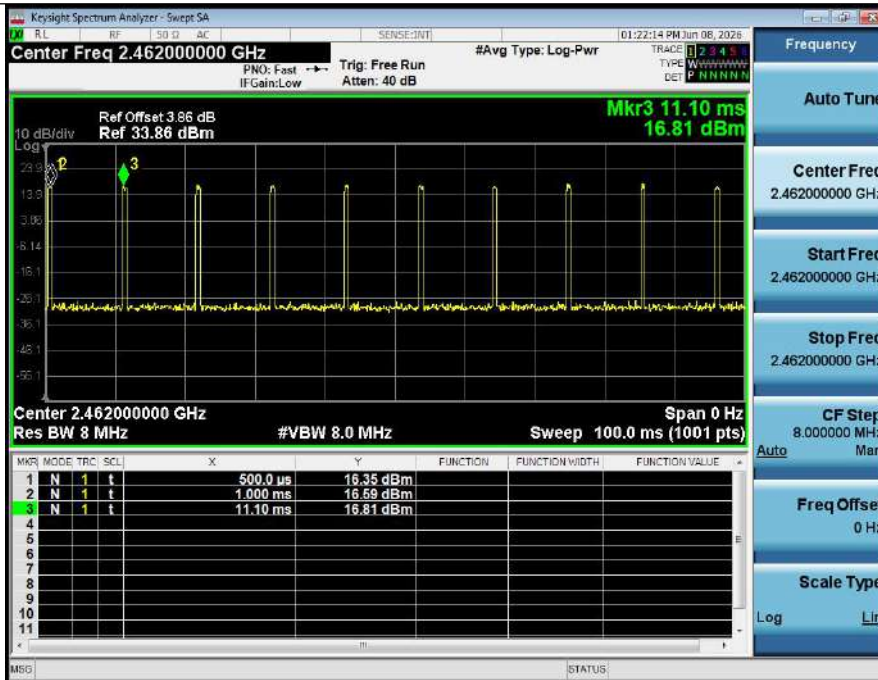
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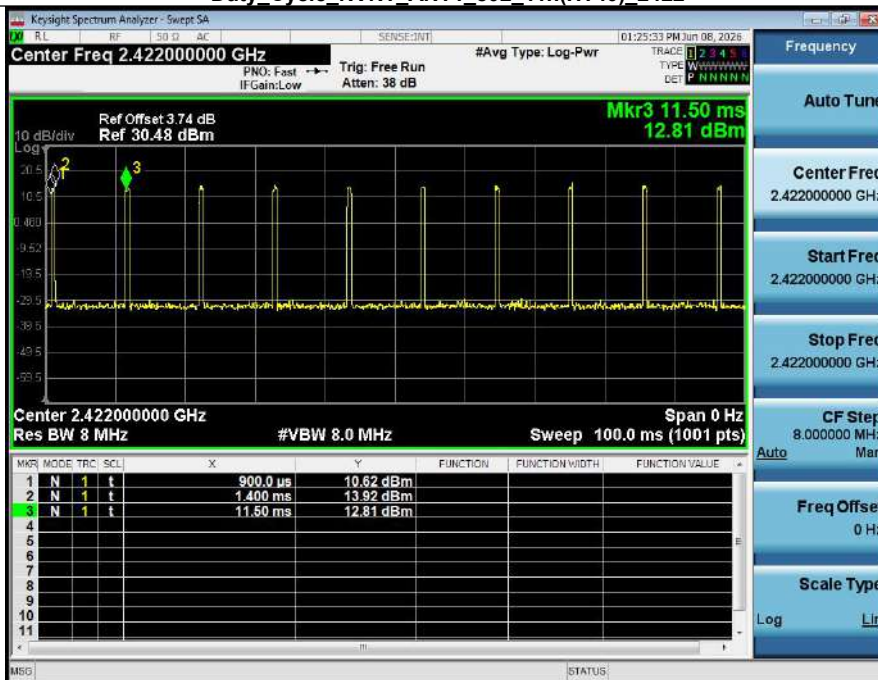
Duty Cycle_NVNT_ANT1_802_11ax(HE20)_2437



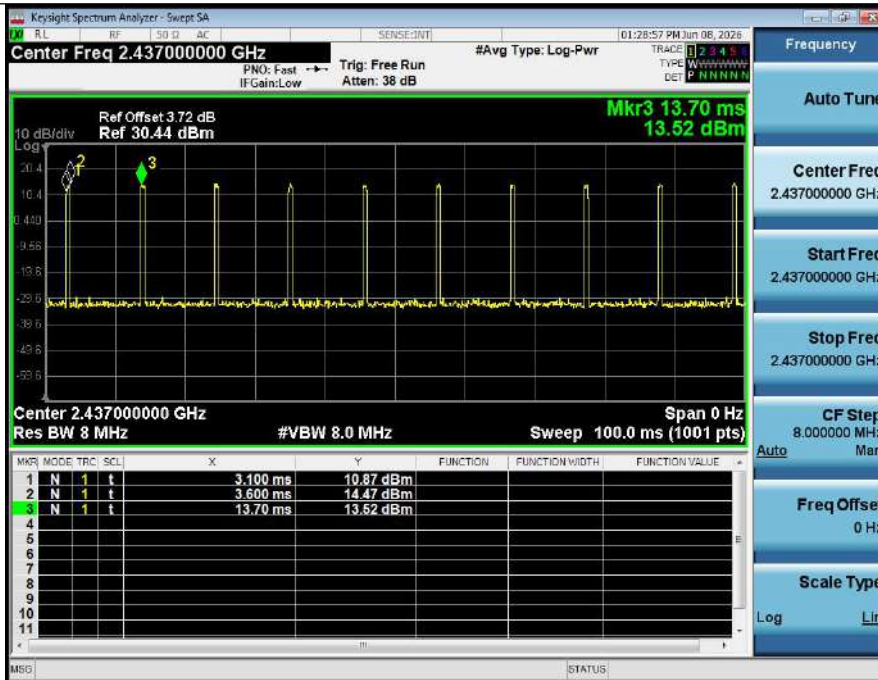
Duty Cycle_NVNT_ANT1_802_11ax(HE20)_2462



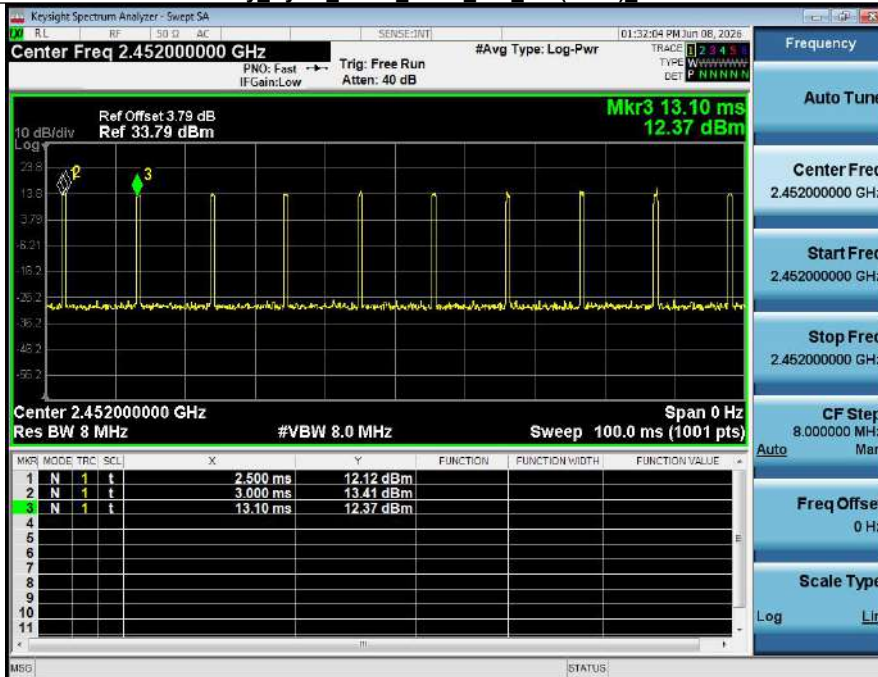
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2422



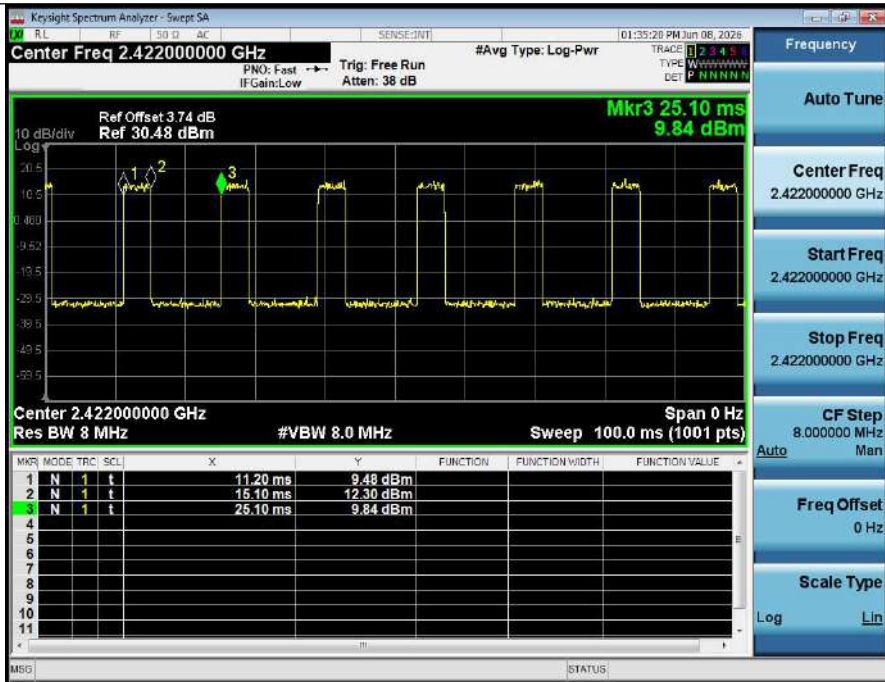
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2437



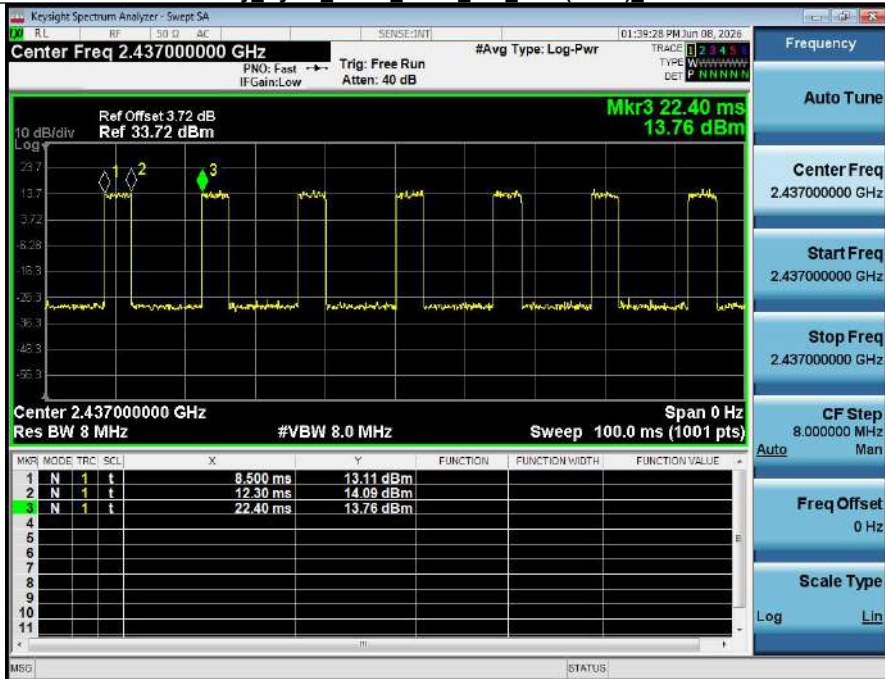
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2452



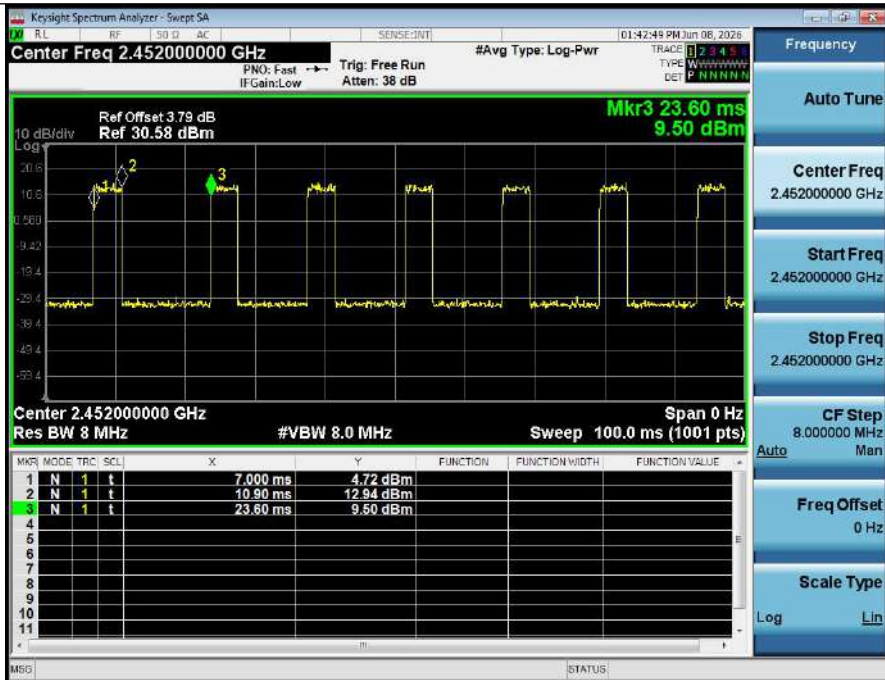
Duty_Cycle_NVNT_ANT1_802_11ax(HE40)_2422



Duty Cycle_NVNT_ANT1_802_11ax(HE40)_2437



Duty Cycle_NVNT_ANT1_802_11ax(HE40)_2452

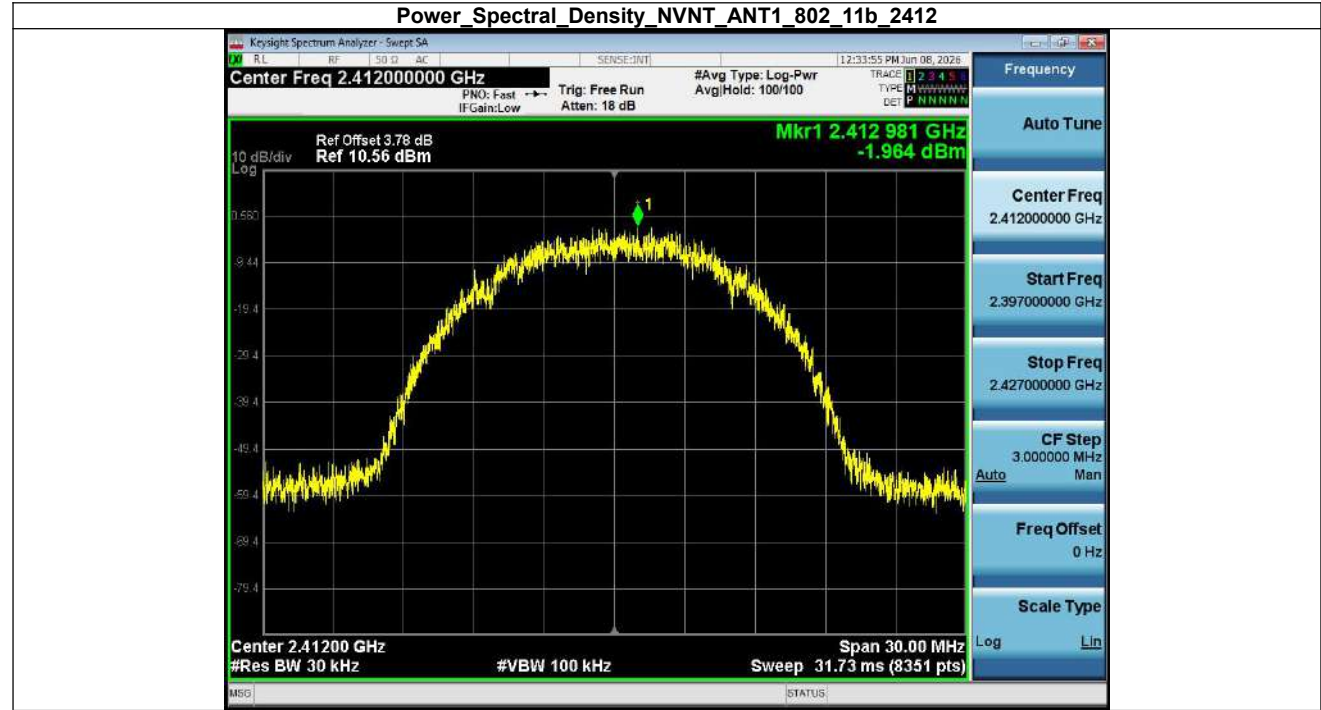


4. MAX. Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	18.10	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	17.46	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	17.37	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	17.25	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	16.73	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	16.97	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	19.64	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	19.03	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	19.34	30	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	Peak	17.63	30	Pass
NVNT	ANT1	802.11ax(HE20)	2437.00	Peak	16.90	30	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	Peak	17.24	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	17.80	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	17.59	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	17.32	30	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	Peak	18.60	30	Pass
NVNT	ANT1	802.11ax(HE40)	2437.00	Peak	18.43	30	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	Peak	18.09	30	Pass

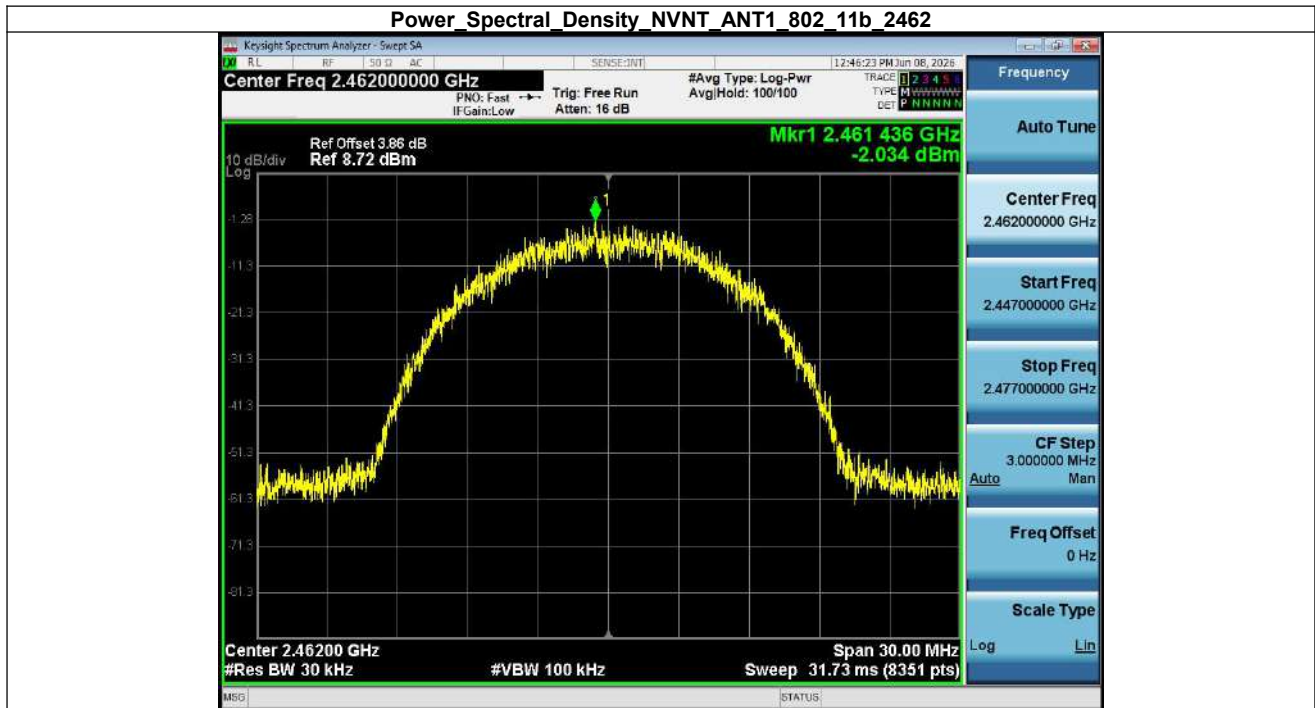
5. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD(dBm/30kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	-1.96	8	Pass
NVNT	ANT1	802.11b	2437.00	-2.14	8	Pass
NVNT	ANT1	802.11b	2462.00	-2.03	8	Pass
NVNT	ANT1	802.11g	2412.00	-4.71	8	Pass
NVNT	ANT1	802.11g	2437.00	-5.73	8	Pass
NVNT	ANT1	802.11g	2462.00	-5.47	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-1.55	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-2.50	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-2.00	8	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	-4.59	8	Pass
NVNT	ANT1	802.11ax(HE20)	2437.00	-4.50	8	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	-4.54	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-7.49	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-7.33	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-7.74	8	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	-7.89	8	Pass
NVNT	ANT1	802.11ax(HE40)	2437.00	-7.65	8	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	-10.05	8	Pass

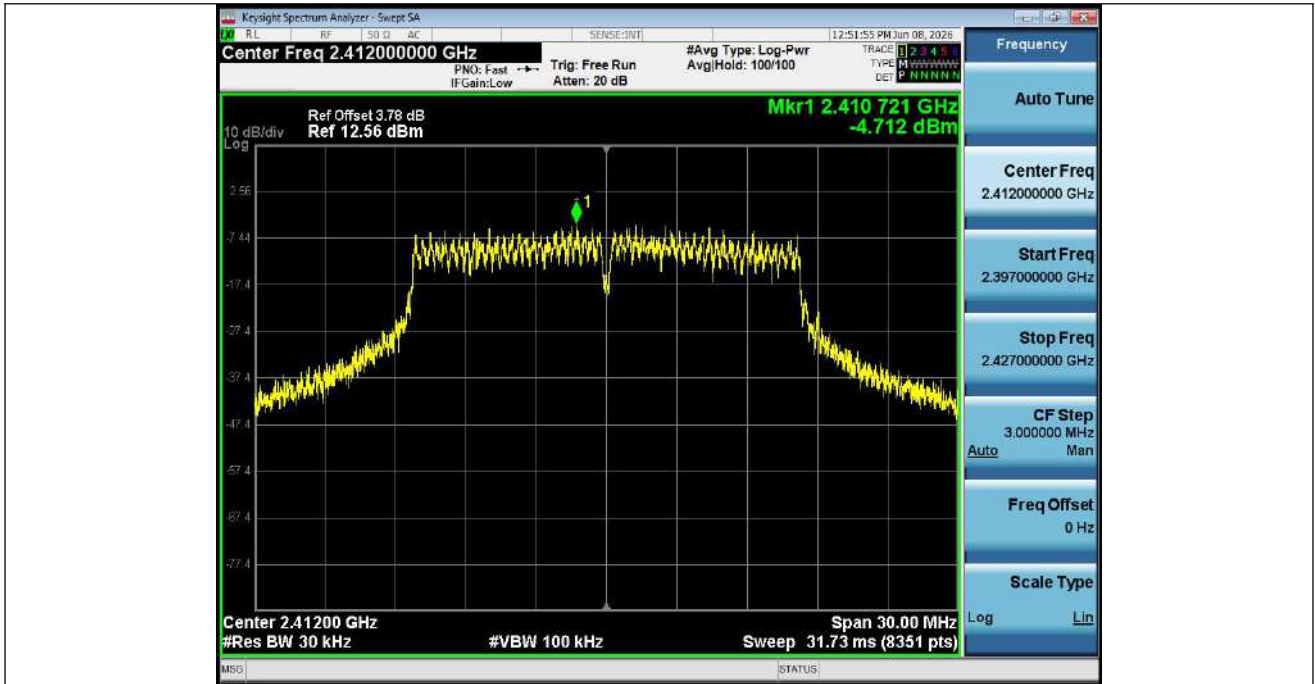




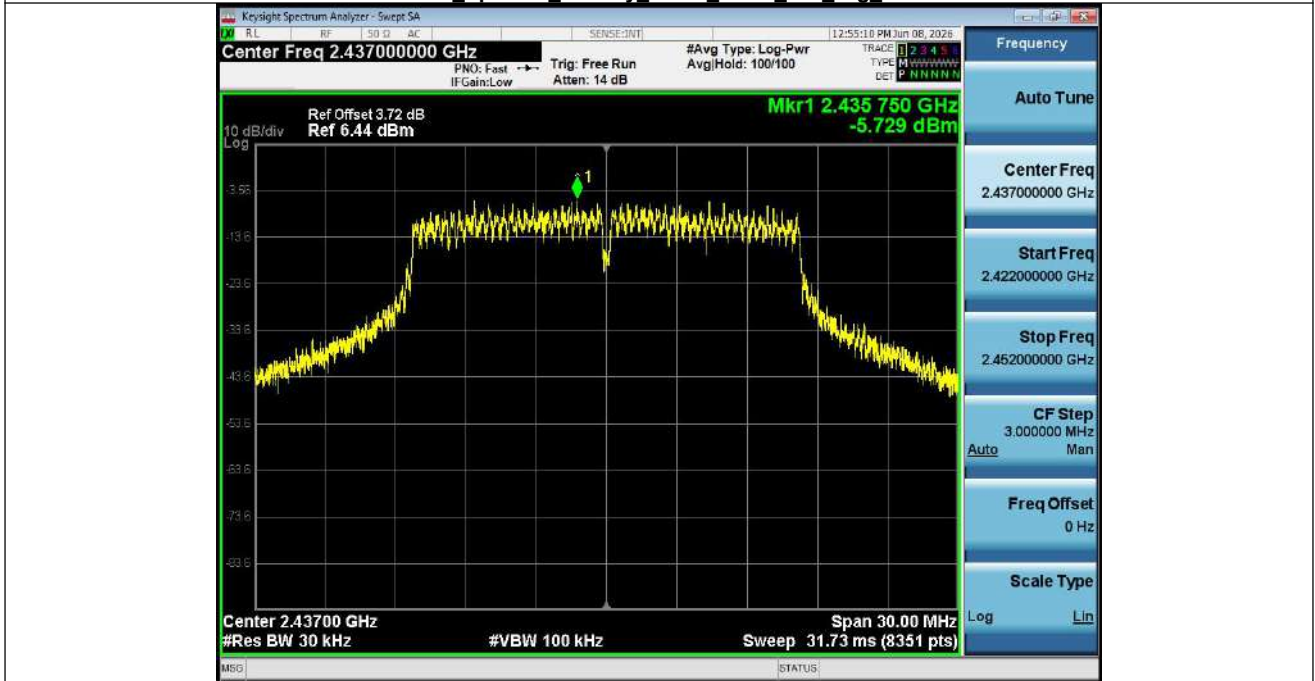
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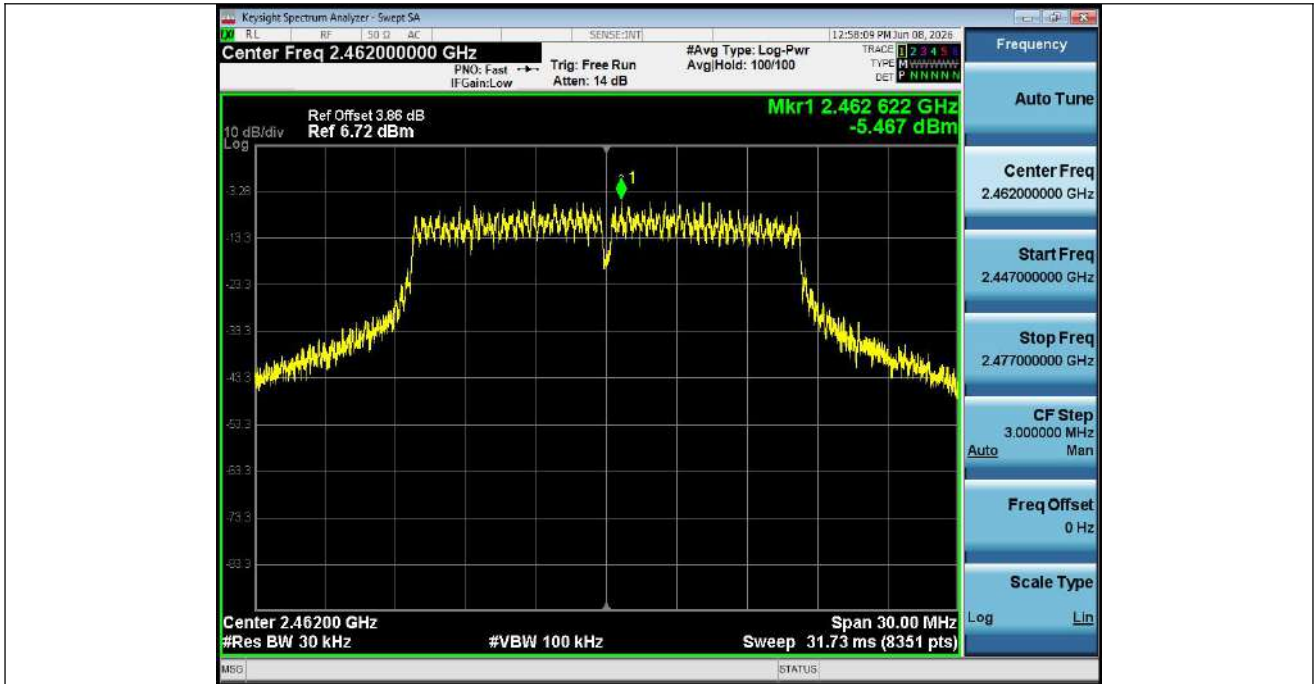
Power_Spectral_Density_NVNT_ANT1_802_11g_2412



Power_Spectral_Density_NVNT_ANT1_802_11g_2437



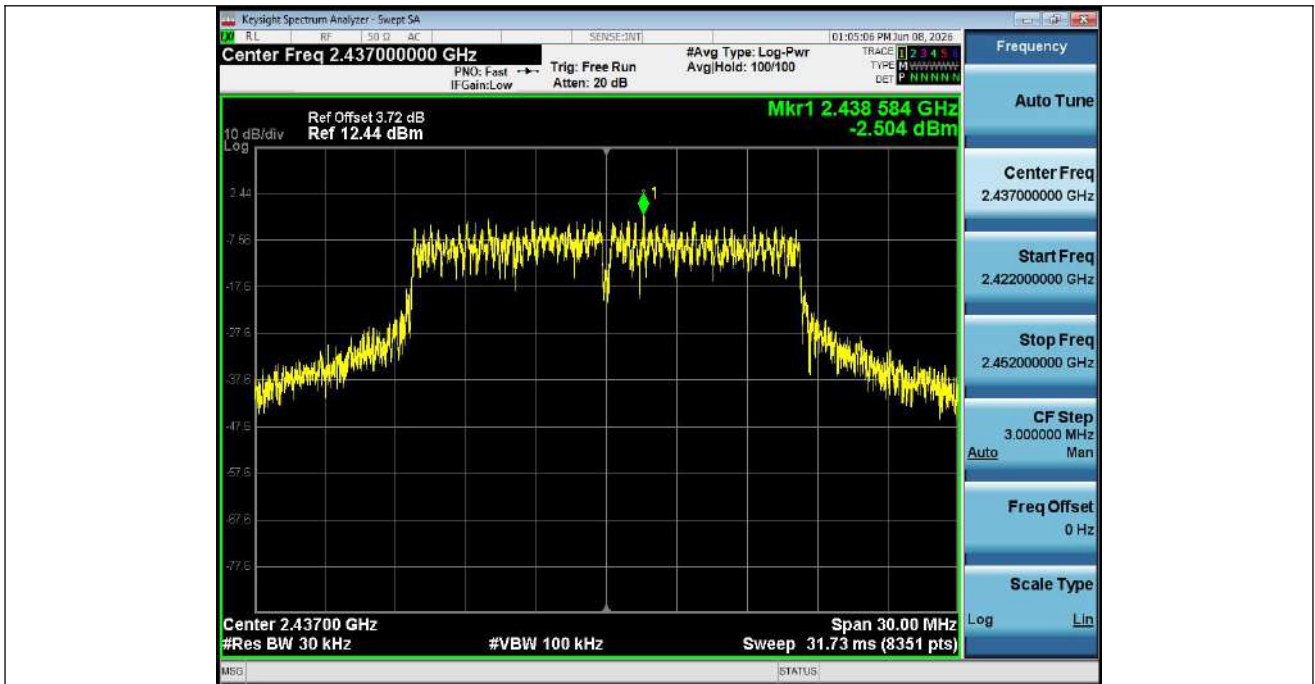
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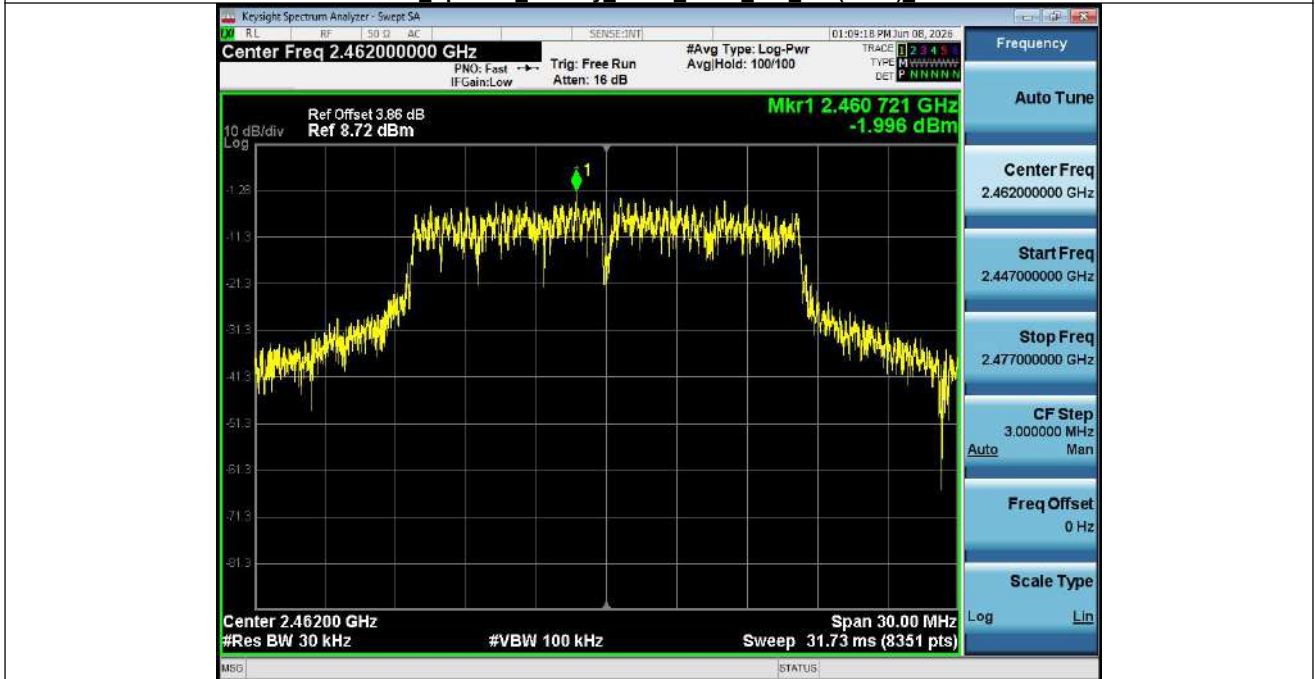
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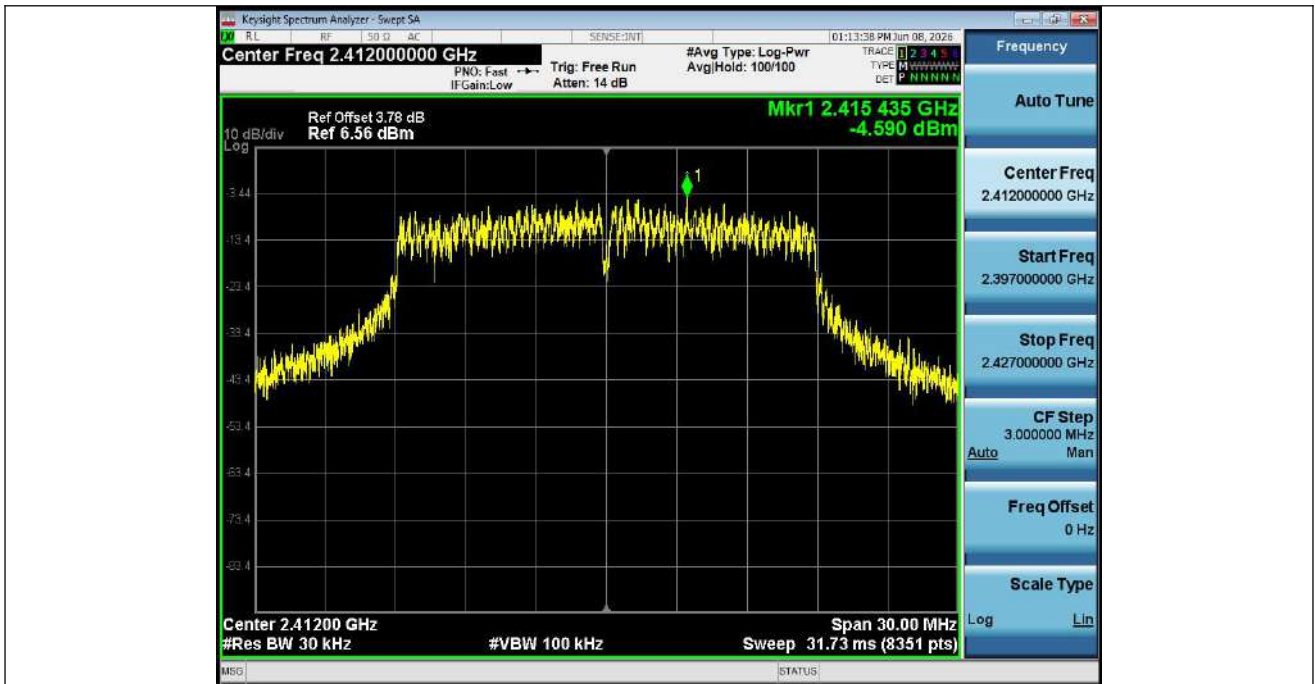
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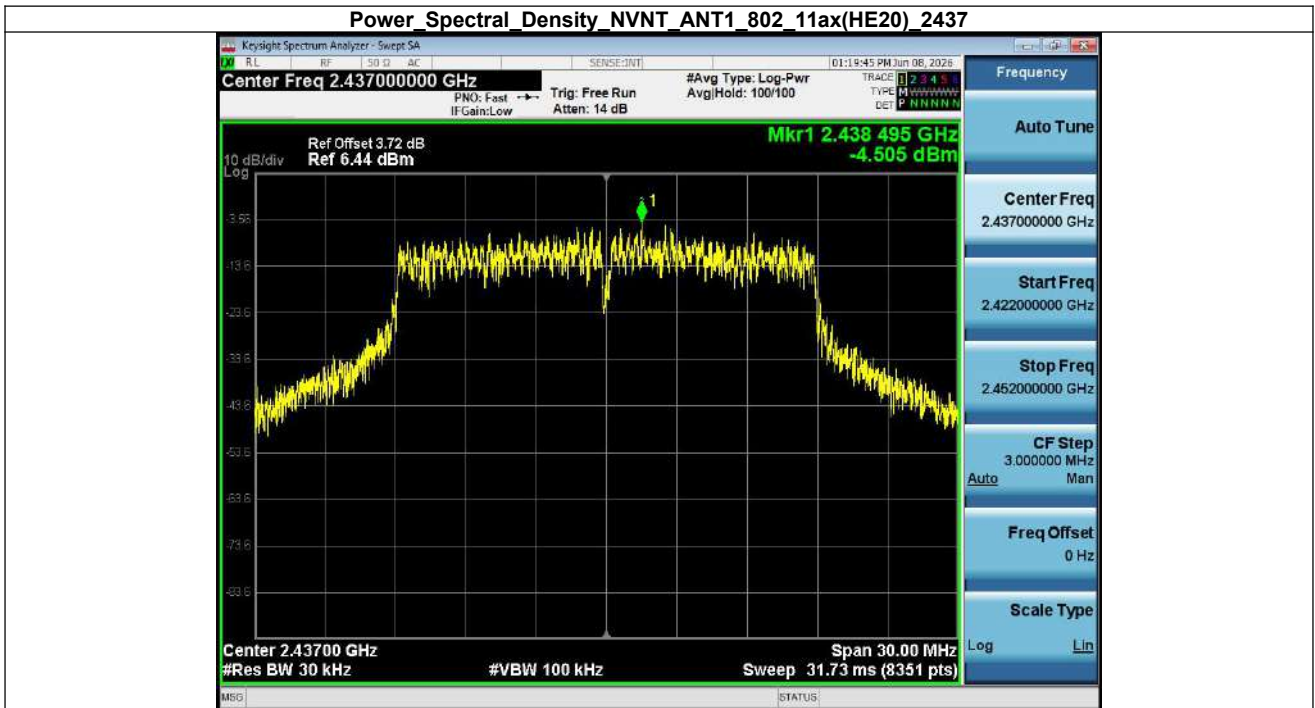
Power Spectral Density NVNT ANT1 802_11n(HT20)_2462



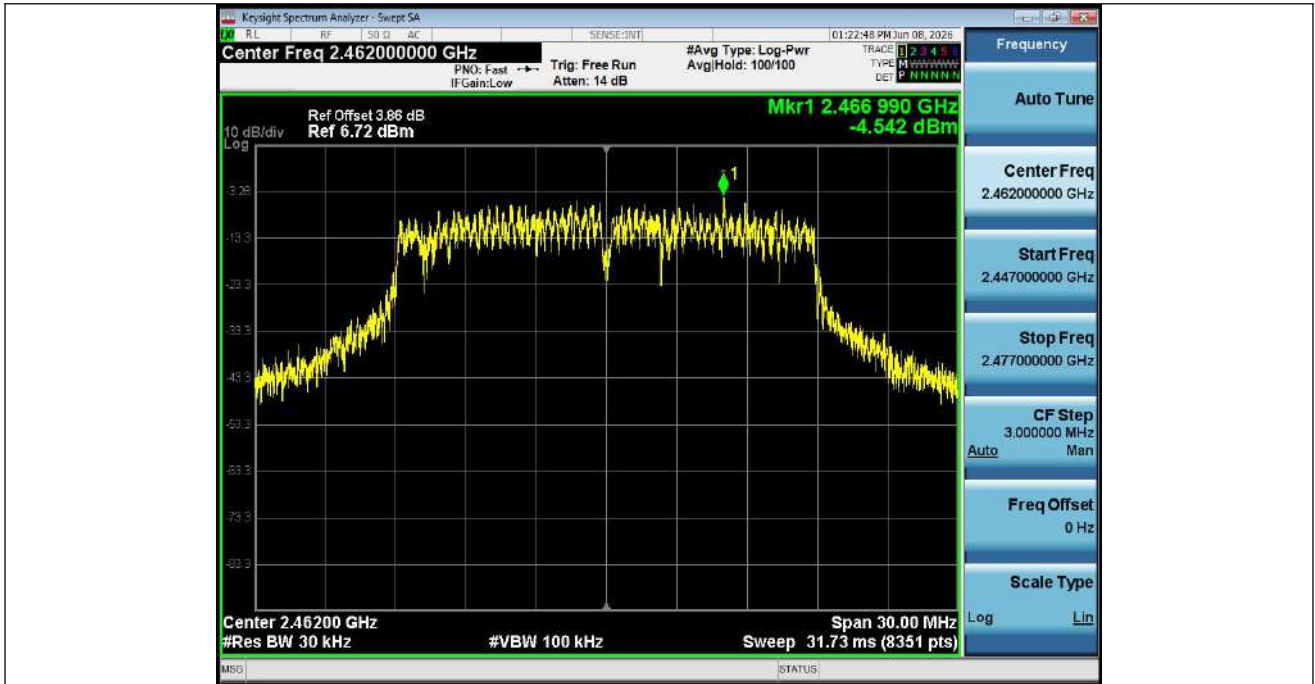
Power Spectral Density NVNT ANT1 802_11ax(HE20)_2412



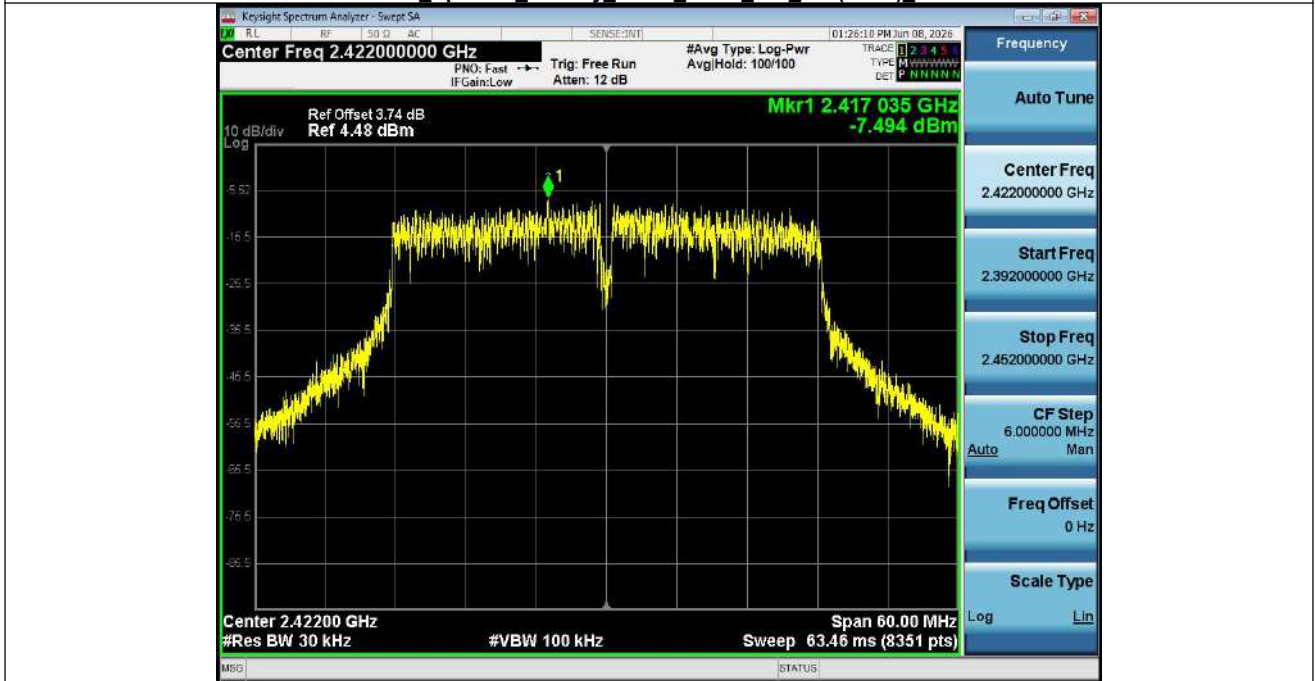
Power Spectral Density_NVNT_ANT1_802_11ax(HE20)_2437



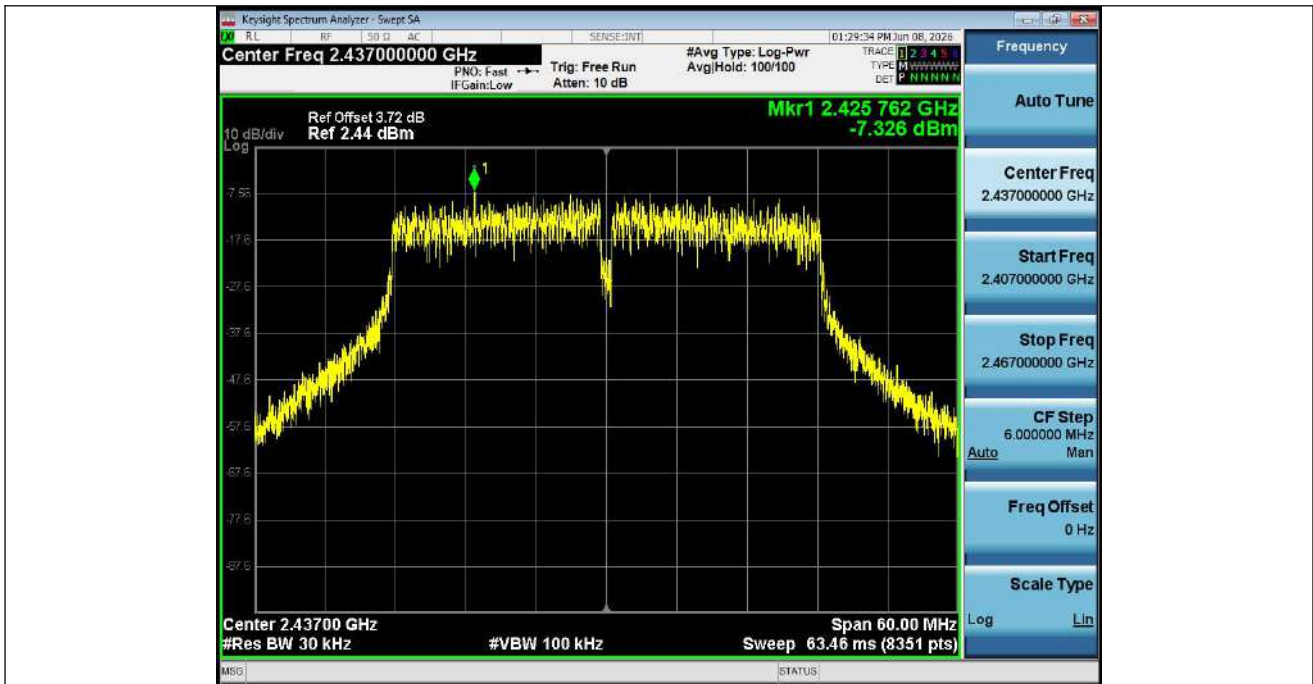
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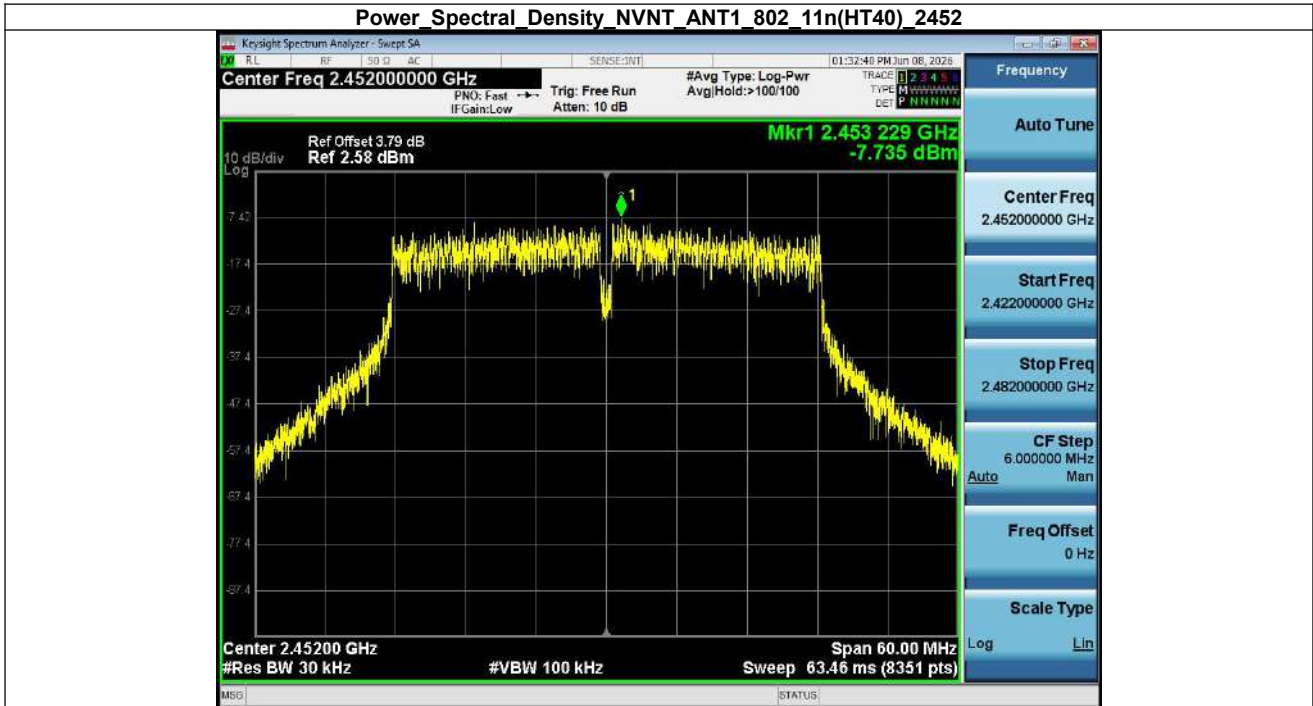
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Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2437



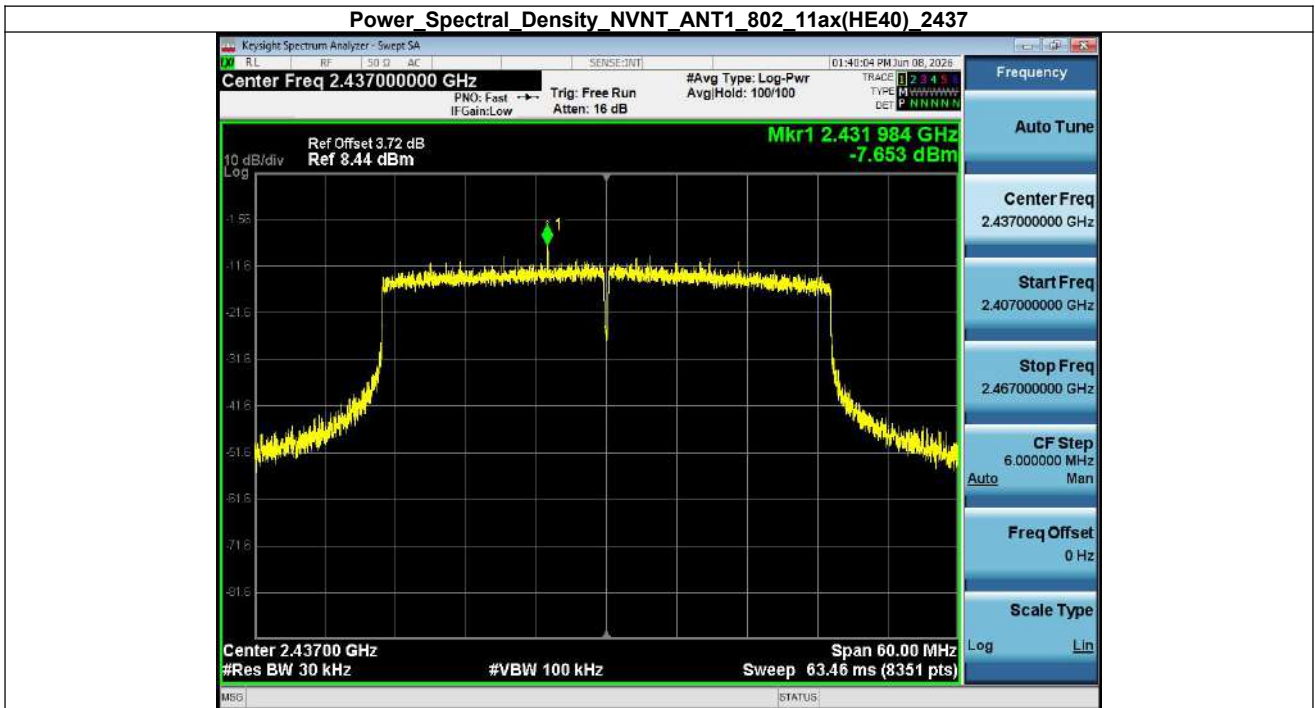
Power Spectral Density NVNT ANT1 802_11n(HT40)_2452



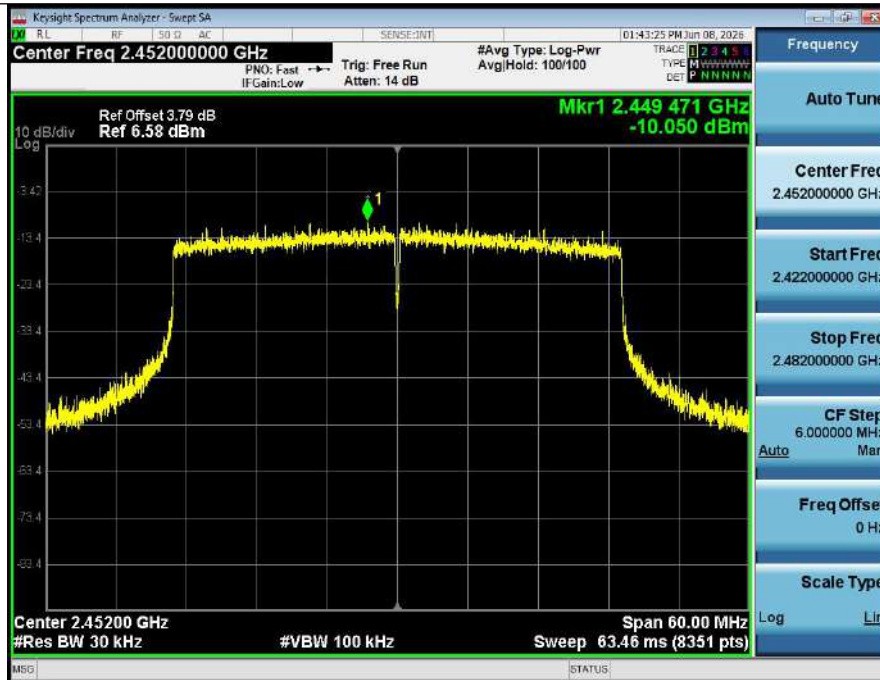
Power Spectral Density NVNT ANT1 802_11ax(HE40)_2422



Power Spectral Density_NVNT_ANT1_802_11ax(HE40)_2437

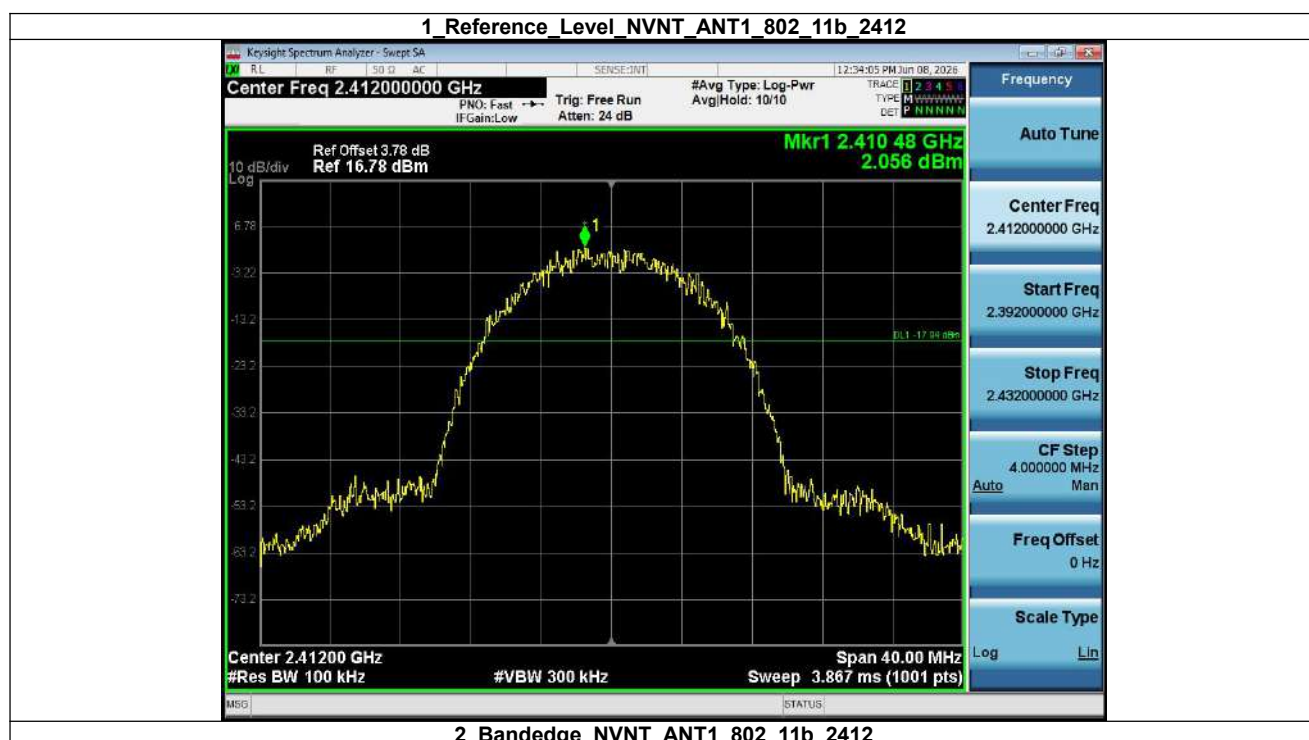


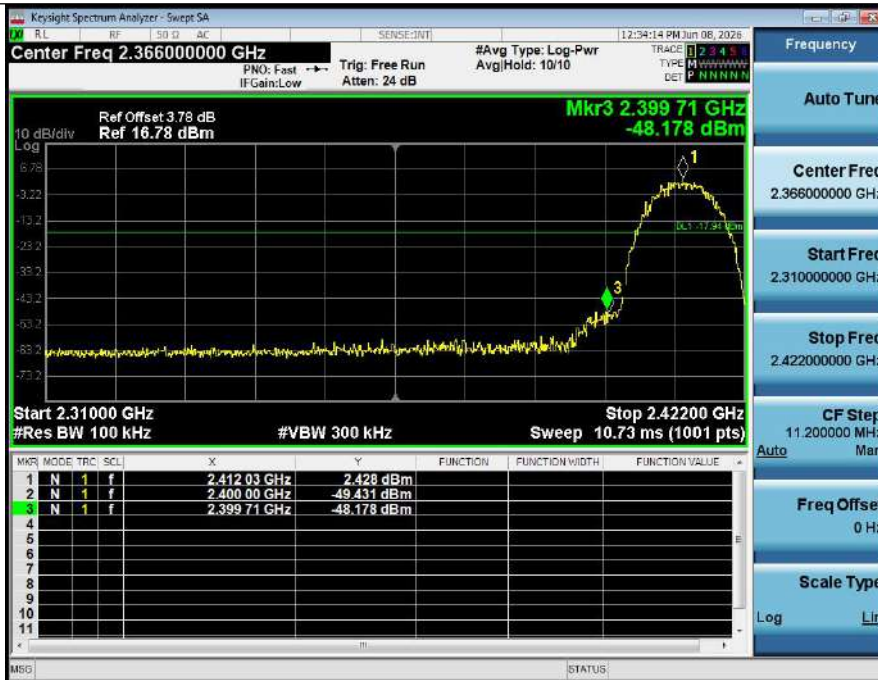
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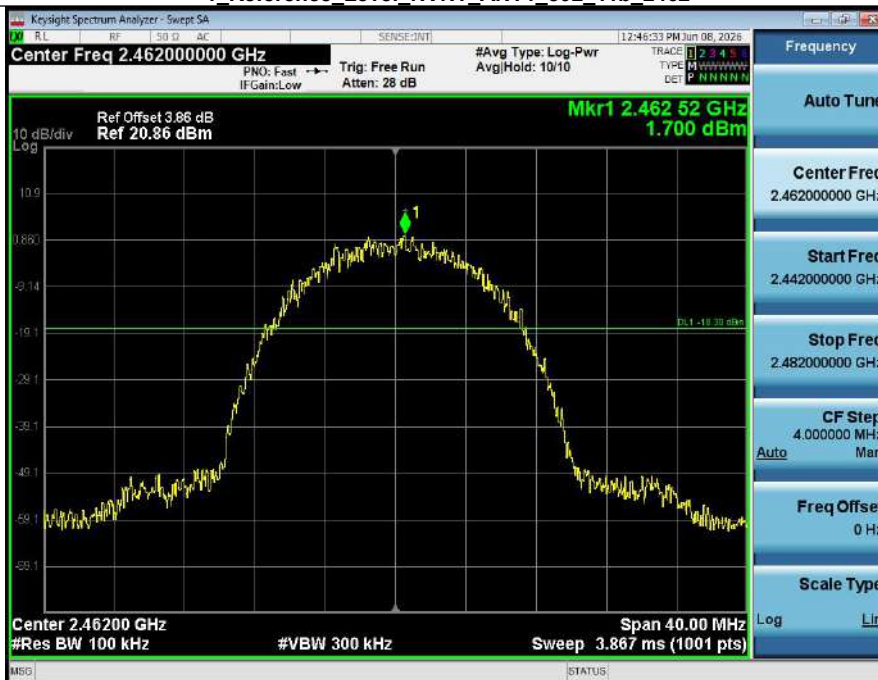
6. Bandedge

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	2399.712	2.056	-48.178	-17.944	Pass
NVNT	ANT1	802.11b	2462.00	2485.600	1.700	-56.120	-18.300	Pass
NVNT	ANT1	802.11g	2412.00	2399.488	-0.234	-29.693	-20.234	Pass
NVNT	ANT1	802.11g	2462.00	2483.872	-2.820	-48.447	-22.820	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.712	1.728	-26.958	-18.272	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2484.160	3.032	-42.739	-16.968	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	2399.936	-0.726	-30.643	-20.726	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	2483.536	-0.564	-50.878	-20.564	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.892	-2.448	-34.565	-22.448	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.360	-2.356	-49.939	-22.356	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	2399.364	-4.348	-33.807	-24.348	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	2484.700	-3.598	-44.503	-23.598	Pass





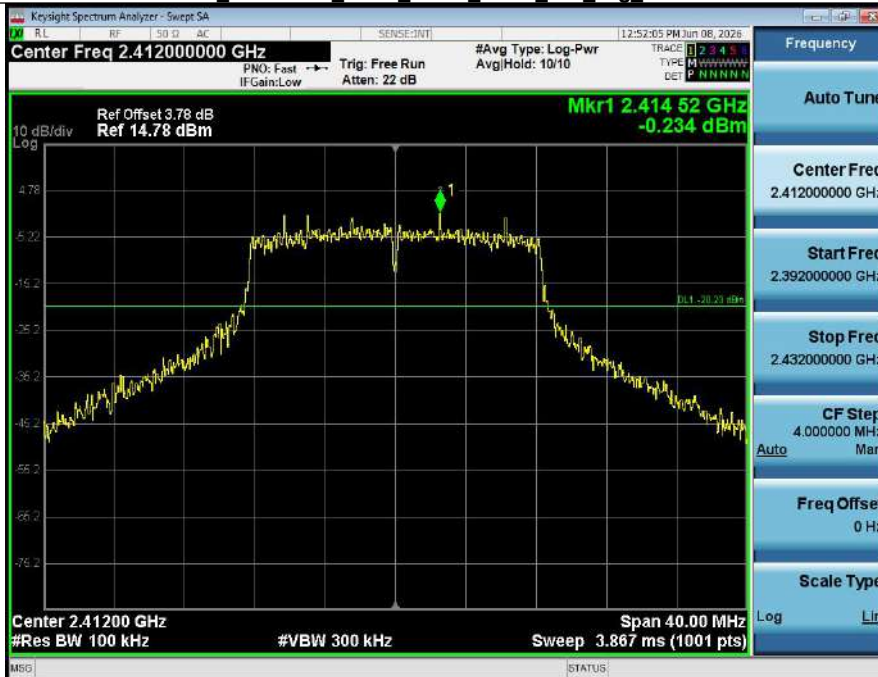
1 Reference Level NVNT_ANT1_802_11b_2462



2 Bandedge_NVNT_ANT1_802_11b_2462



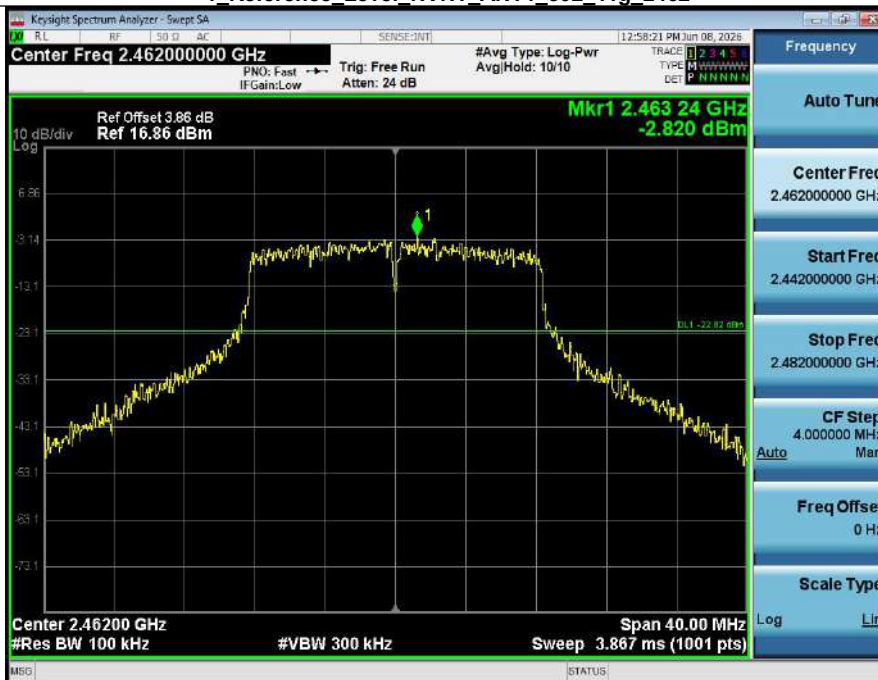
1 Reference Level NVNT_ANT1_802_11g_2412



2 Bandedge_NVNT_ANT1_802_11g_2412



1 Reference Level NVNT_ANT1_802_11g_2462



2_Bandedge_NVNT_ANT1_802_11g_2462



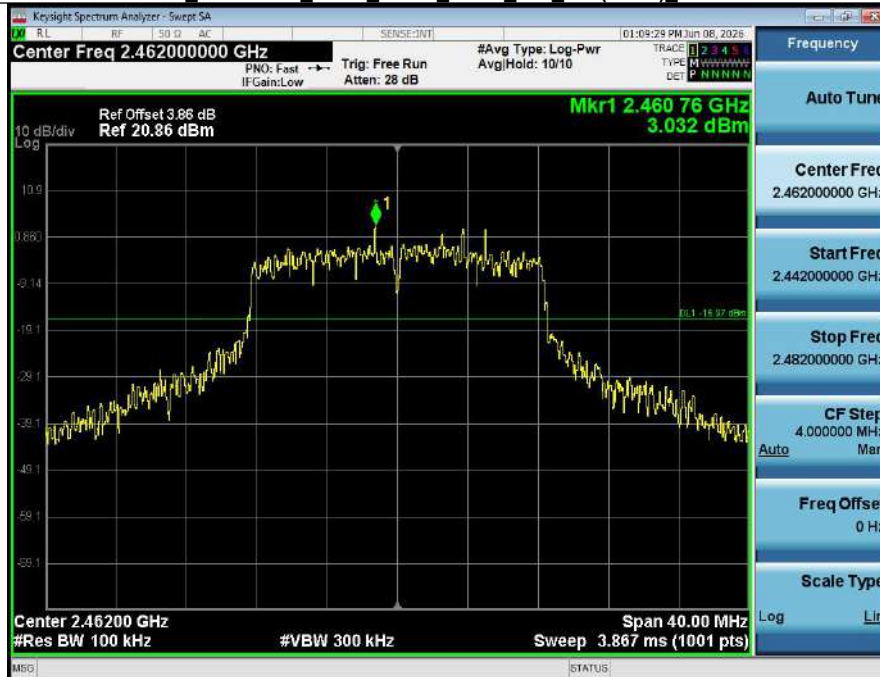
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2 Bandedge NVNT_ANT1_802_11n(HT20)_2412



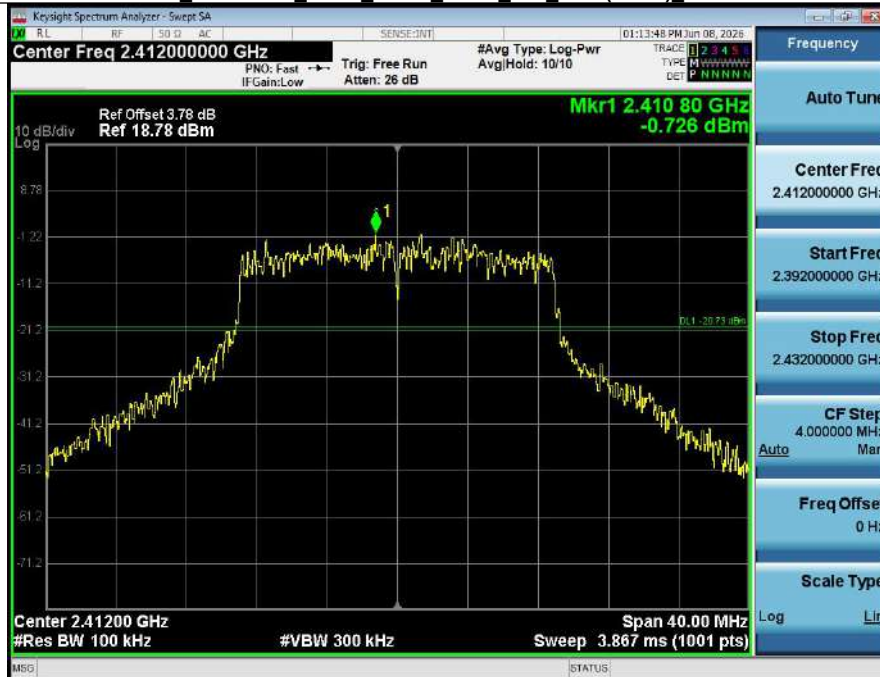
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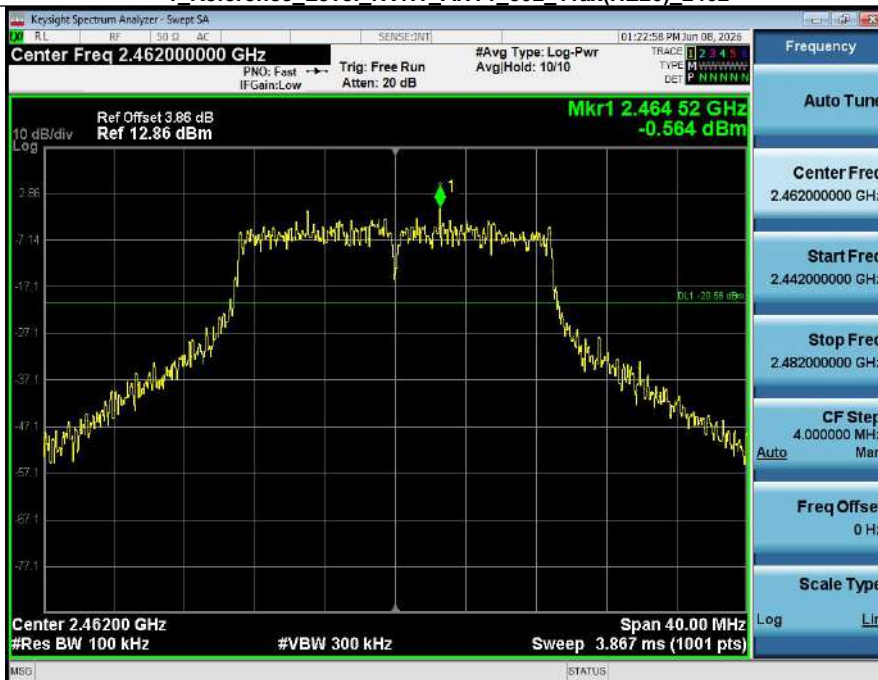
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2 Bandedge NVNT ANT1_802_11ax(HE20)_2412



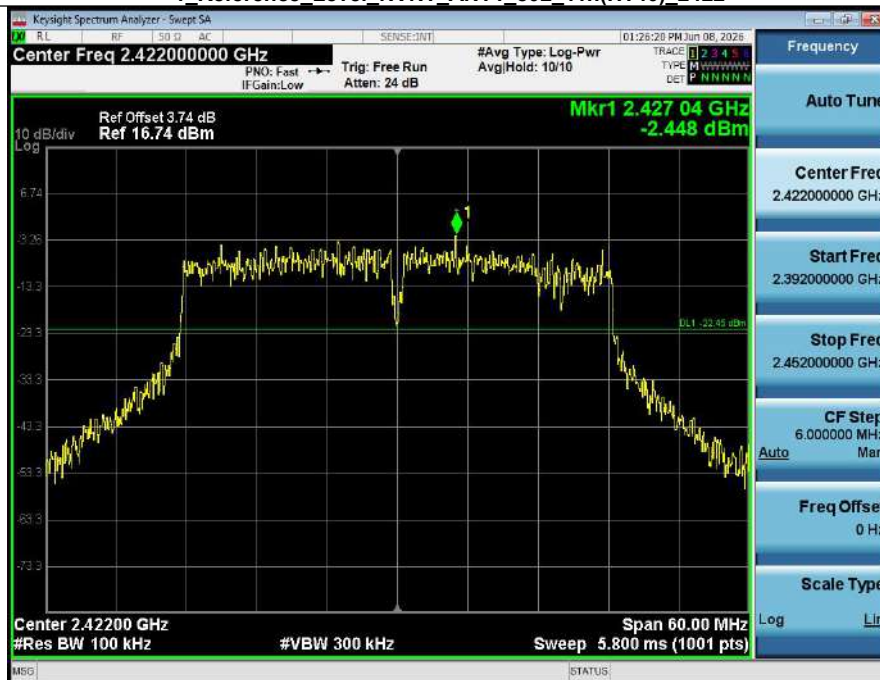
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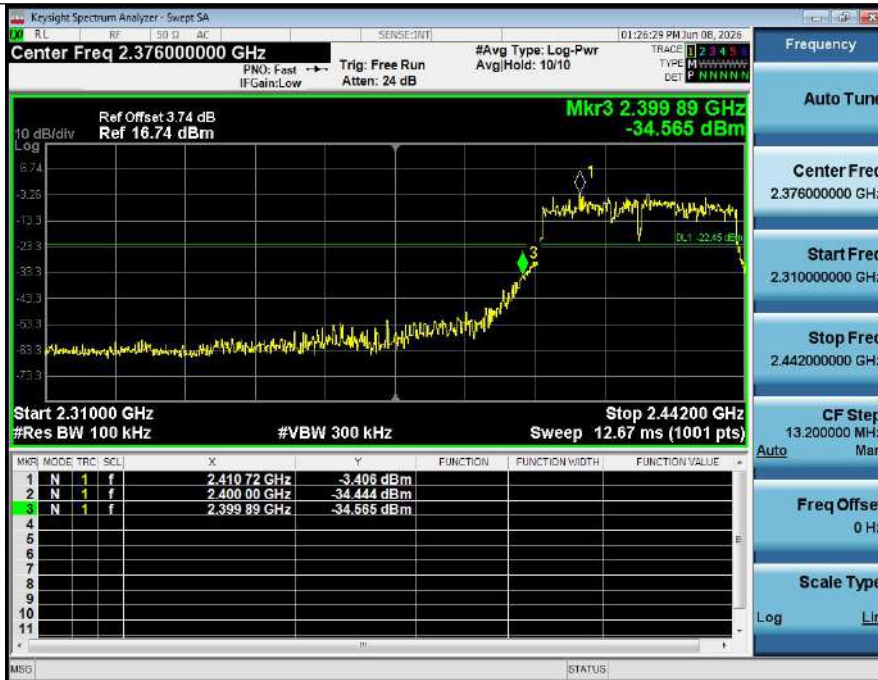
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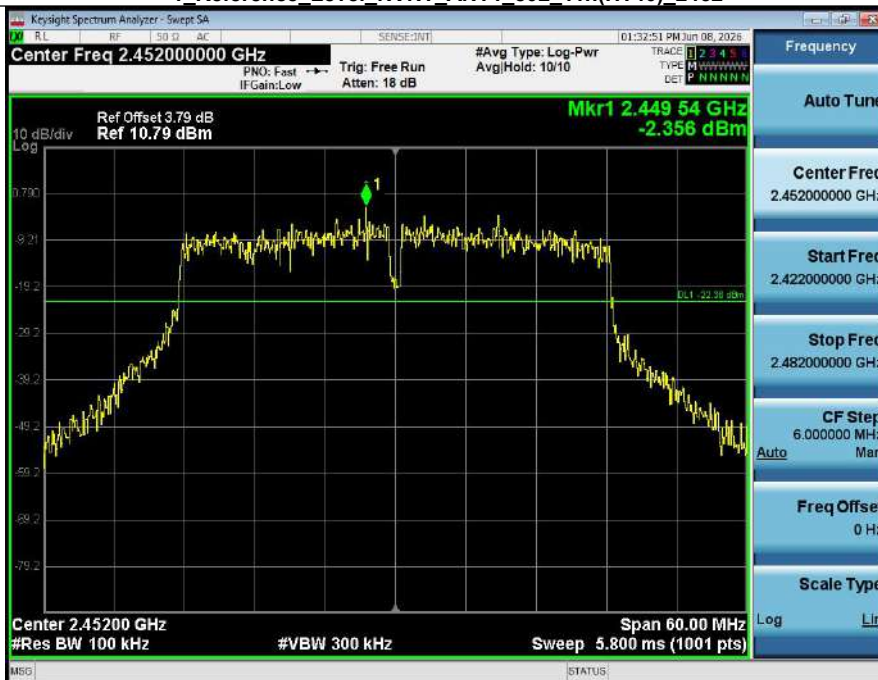
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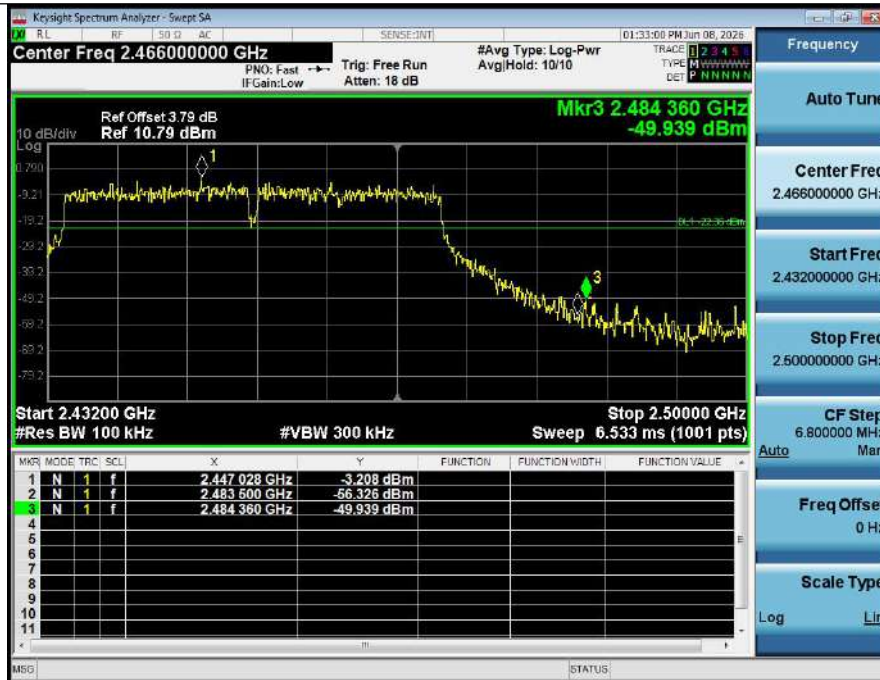
2 Bandedge NVNT_ANT1_802_11n(HT40)_2422



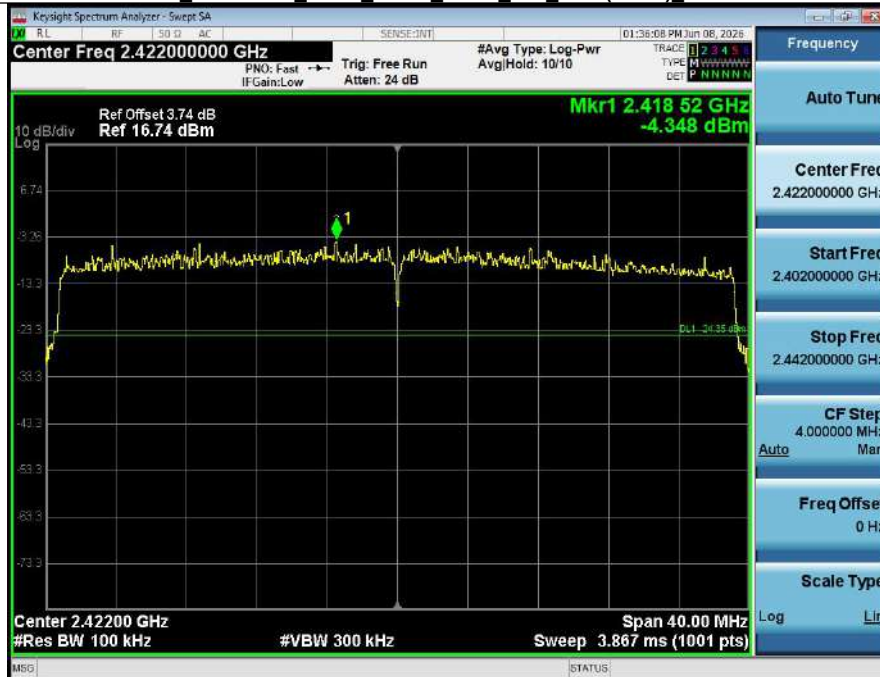
1 Reference Level NVNT_ANT1_802_11n(HT40)_2452



2 Bandedge NVNT_ANT1_802_11n(HT40)_2452



1 Reference Level NVNT ANT1_802_11ax(HE40)_2422



2 Bandedge NVNT ANT1_802_11ax(HE40)_2422



1_Reference_Level_NVNT_ANT1_802_11ax(HE40)_2452



2_Bandedge_NVNT_ANT1_802_11ax(HE40)_2452



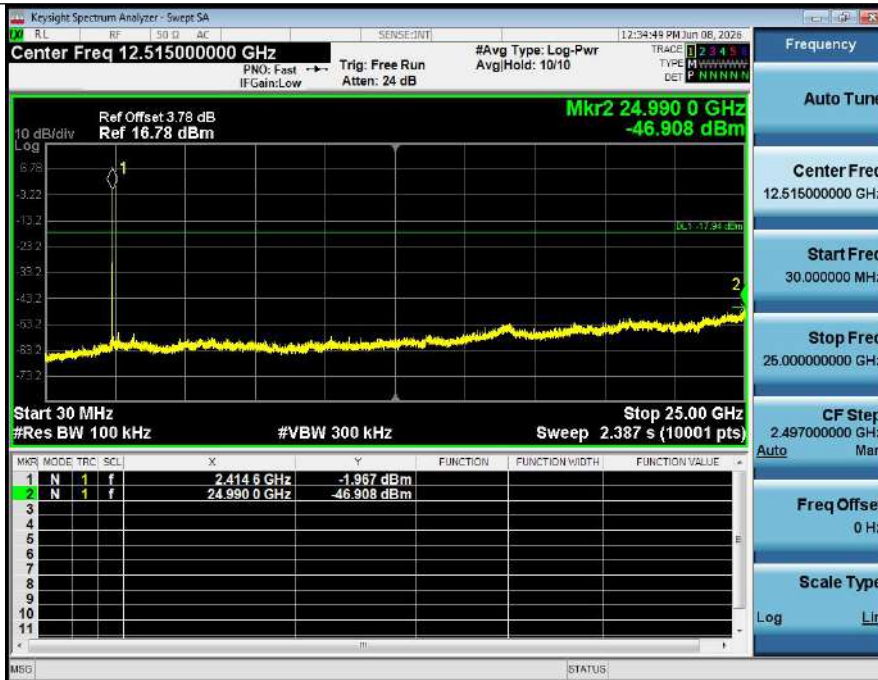
7. Spurious Emission

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	24990.012	2.056	-46.908	-17.944	Pass
NVNT	ANT1	802.11b	2437.00	24992.509	1.593	-47.585	-18.407	Pass
NVNT	ANT1	802.11b	2462.00	24940.072	1.700	-43.895	-18.300	Pass
NVNT	ANT1	802.11g	2412.00	24935.078	-0.234	-50.042	-20.234	Pass
NVNT	ANT1	802.11g	2437.00	24982.521	-3.138	-48.211	-23.138	Pass
NVNT	ANT1	802.11g	2462.00	24930.084	-2.820	-47.287	-22.820	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24967.539	1.728	-45.441	-18.272	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24987.515	3.291	-50.870	-16.709	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24997.503	1.800	-49.886	-18.200	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	24965.042	-1.318	-54.286	-21.318	Pass
NVNT	ANT1	802.11ax(HE20)	2437.00	24950.060	0.097	-45.346	-19.903	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	24975.030	-0.564	-52.433	-20.564	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24987.515	-2.448	-47.931	-22.448	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24485.618	-3.891	-52.697	-23.891	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	24985.018	-2.356	-53.173	-22.356	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	24970.036	-4.348	-47.820	-24.348	Pass
NVNT	ANT1	802.11ax(HE40)	2437.00	24877.647	-3.890	-48.113	-23.890	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	1962.678	-3.598	-54.235	-23.598	Pass

1 Reference_Level_NVNT_ANT1_802_11b_2412



2 Spurious_Emission_NVNT_ANT1_802_11b_2412



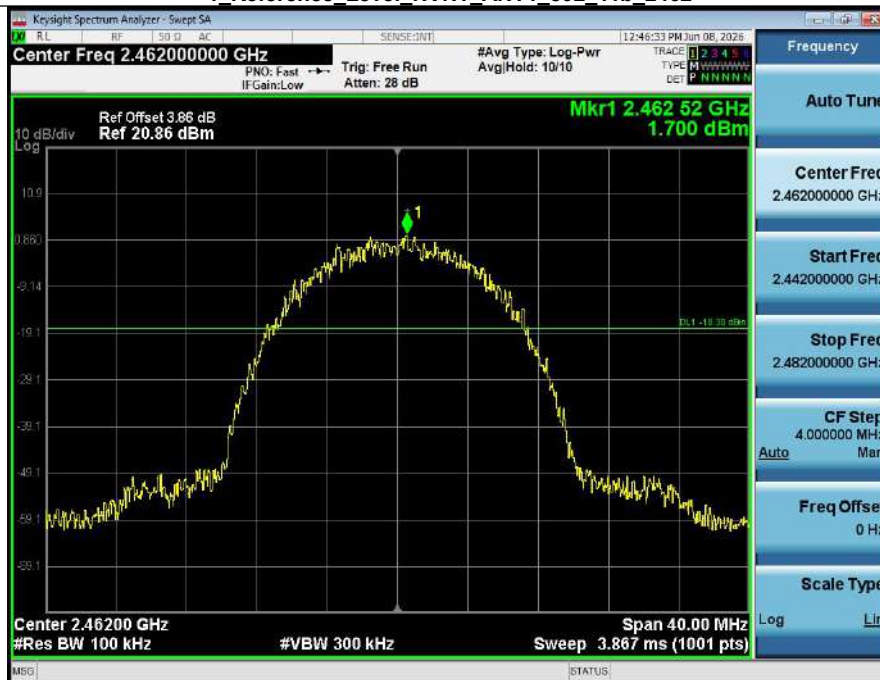
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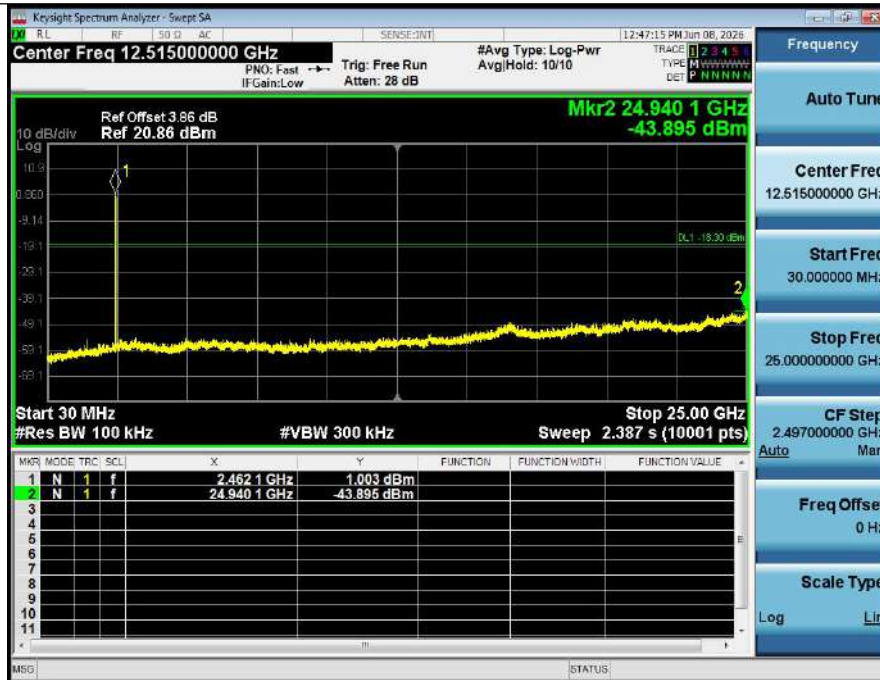
2 Spurious Emission NVNT_ANT1_802_11b_2437



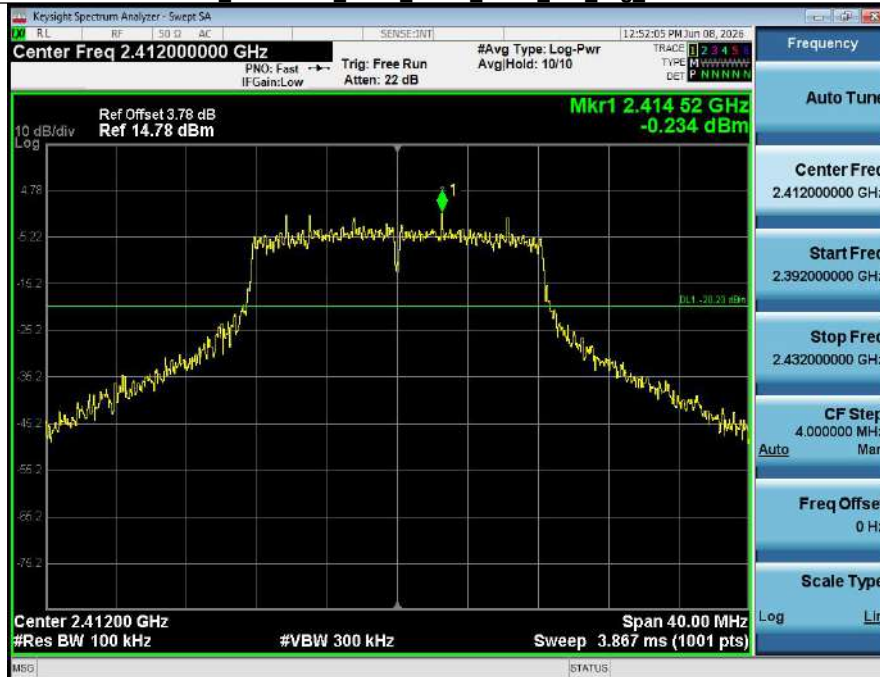
1 Reference Level NVNT_ANT1_802_11b_2462



2 Spurious Emission NVNT_ANT1_802_11b_2462



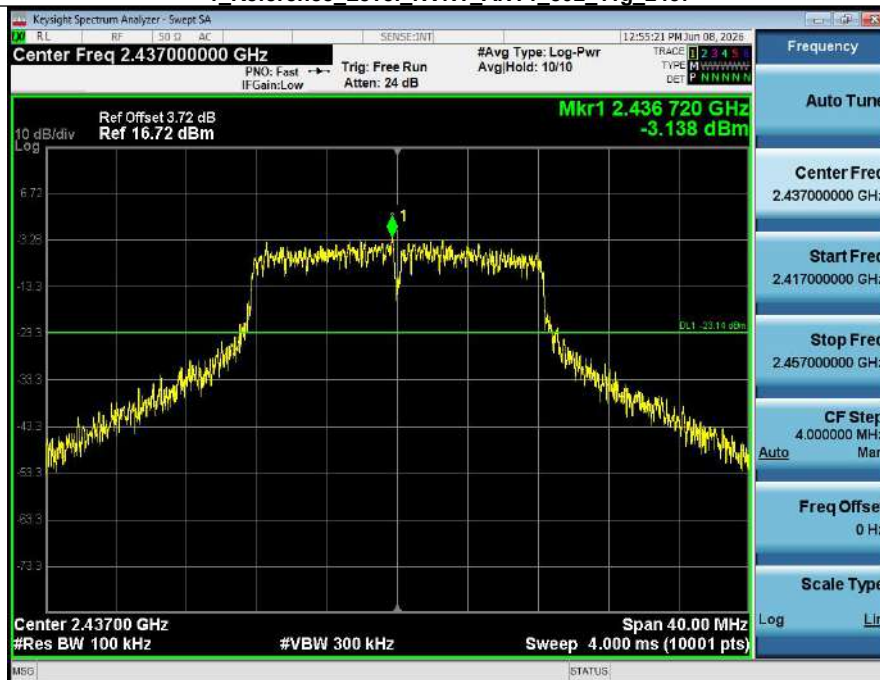
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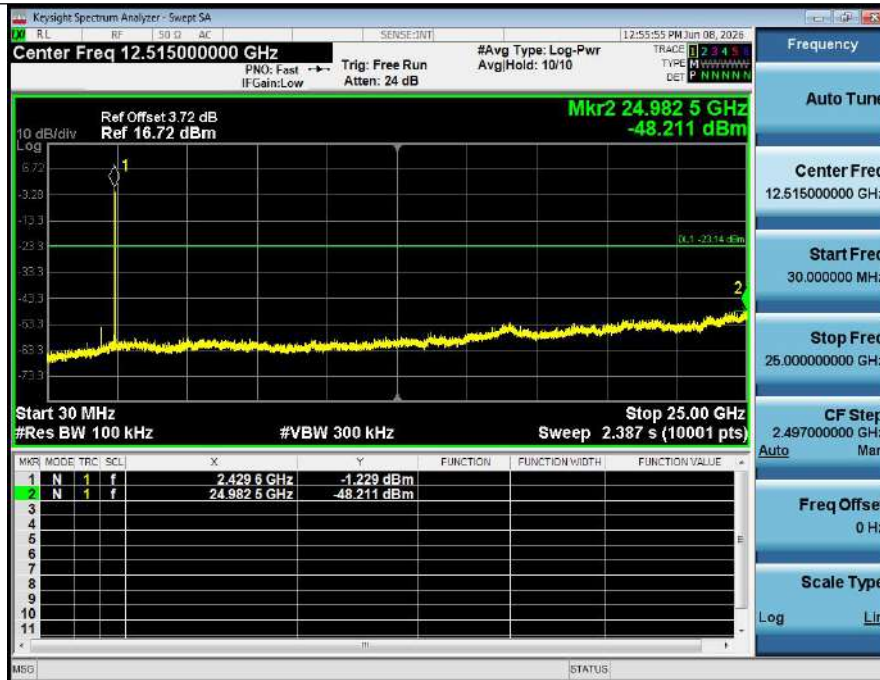
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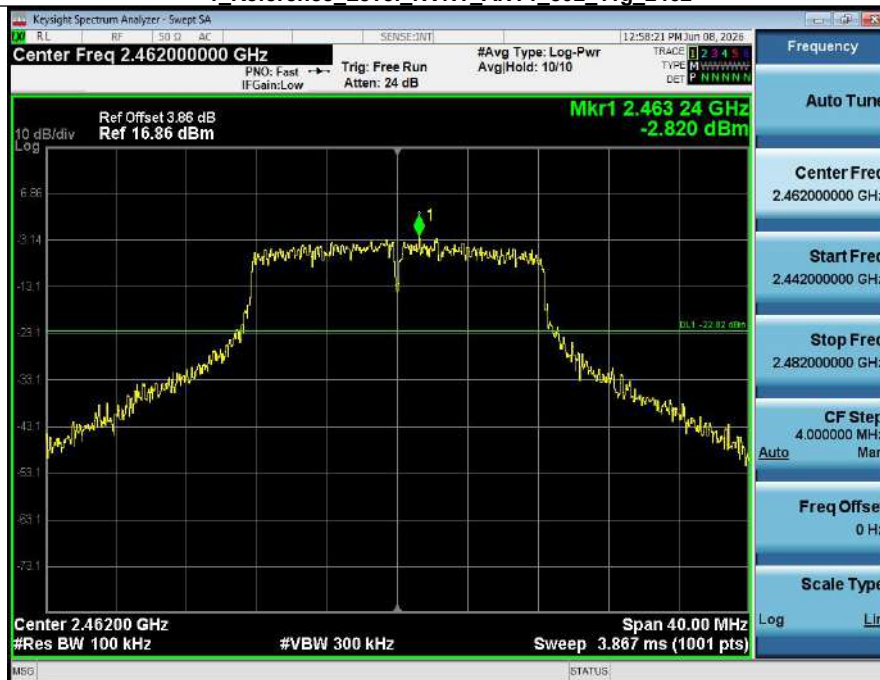
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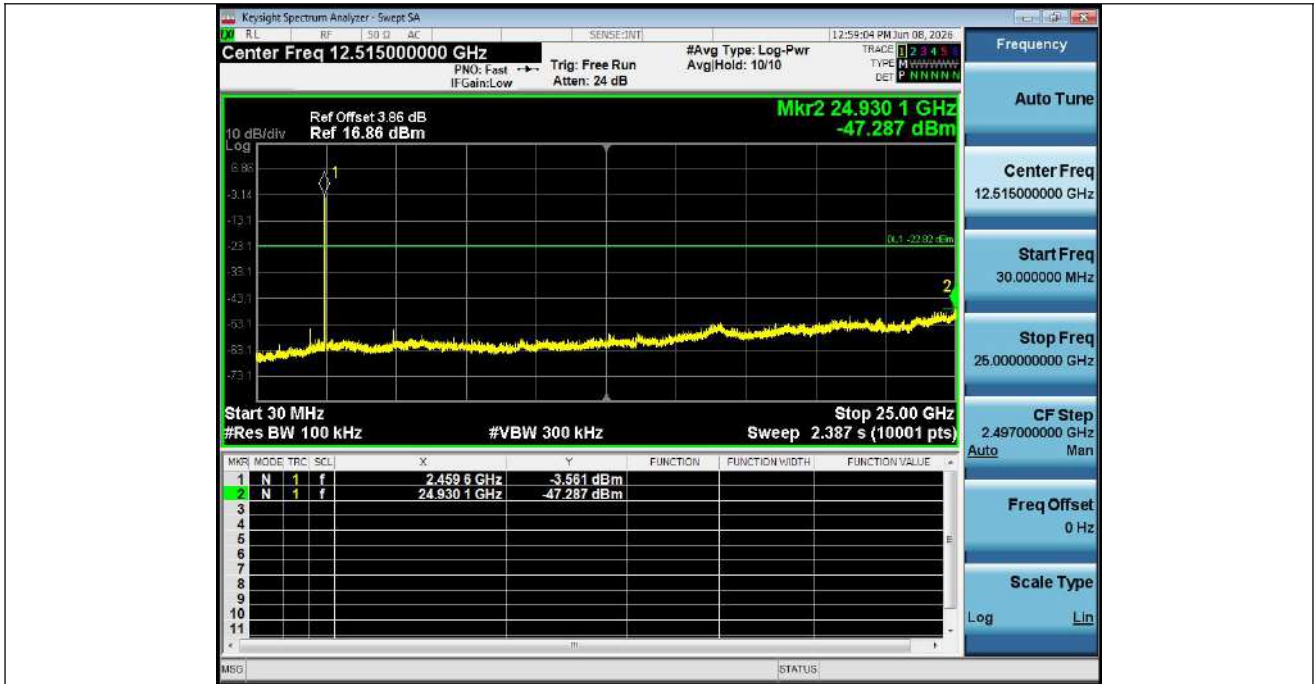
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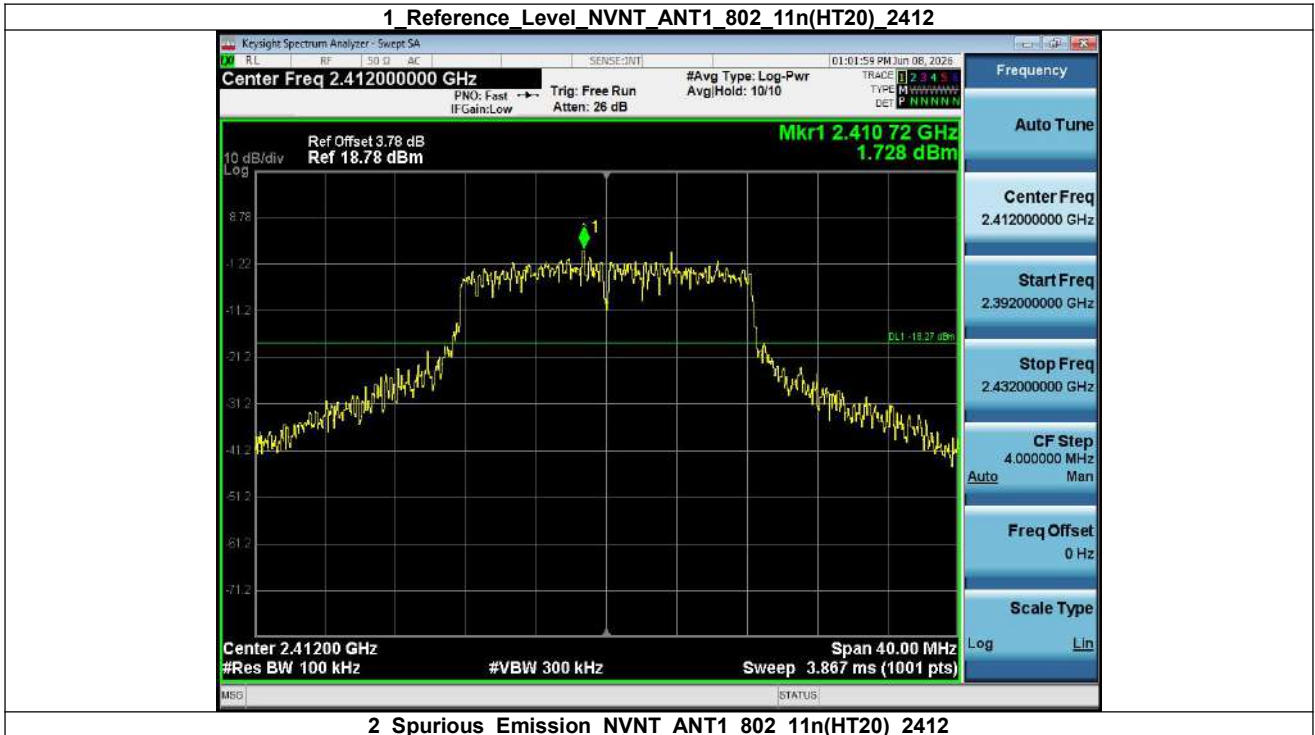
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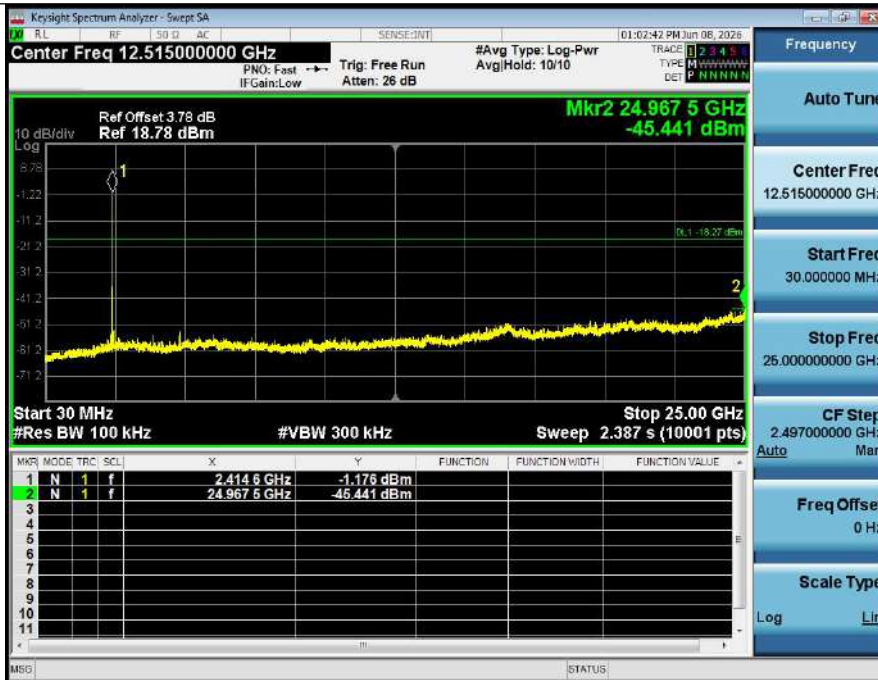
2 Spurious Emission NVNT_ANT1_802_11g_2462



1 Reference Level NVNT_ANT1_802_11n(HT20)_2412



2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2412



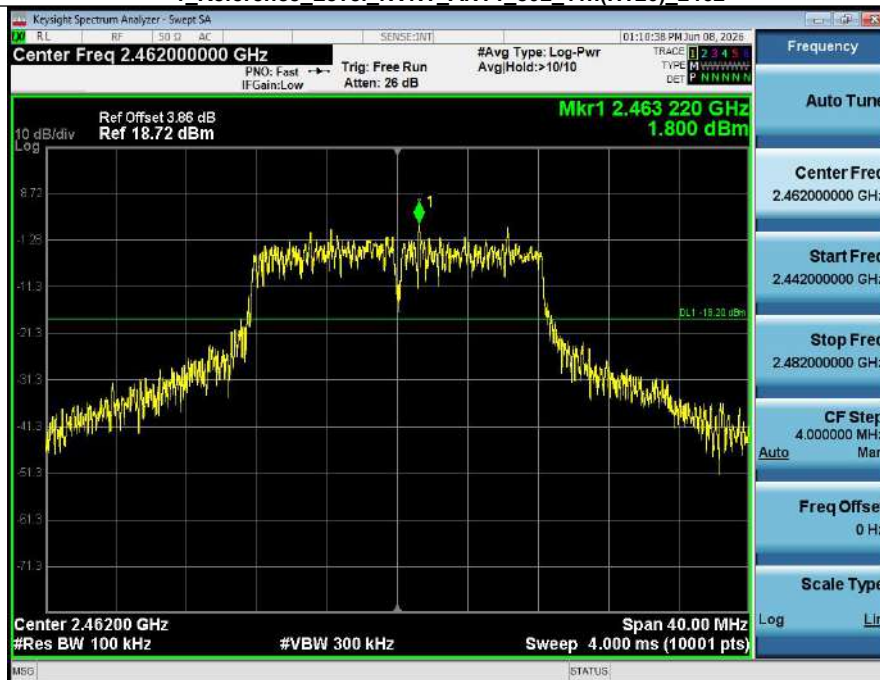
1 Reference Level NVNT_ANT1_802_11n(HT20)_2437



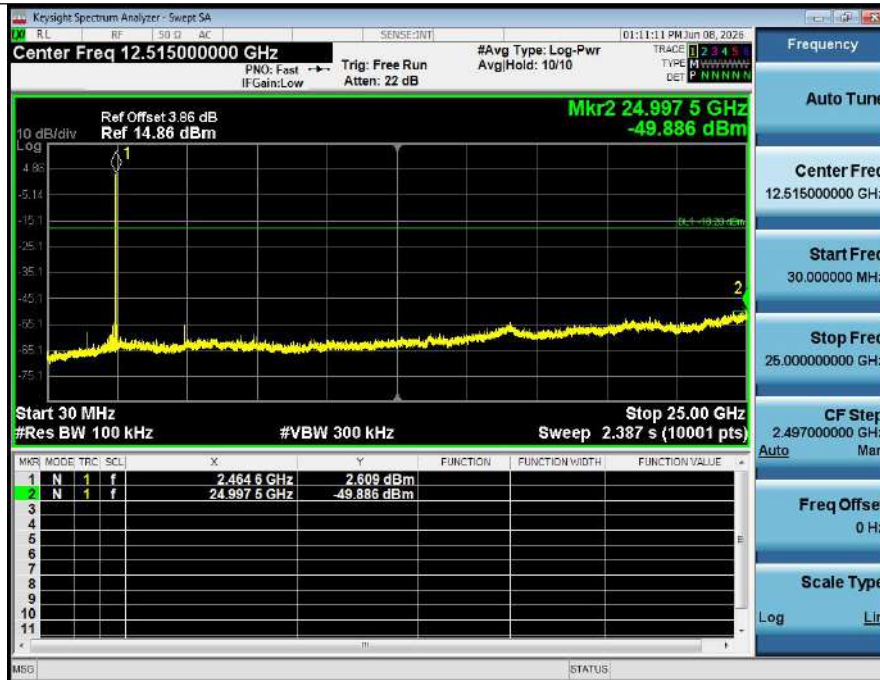
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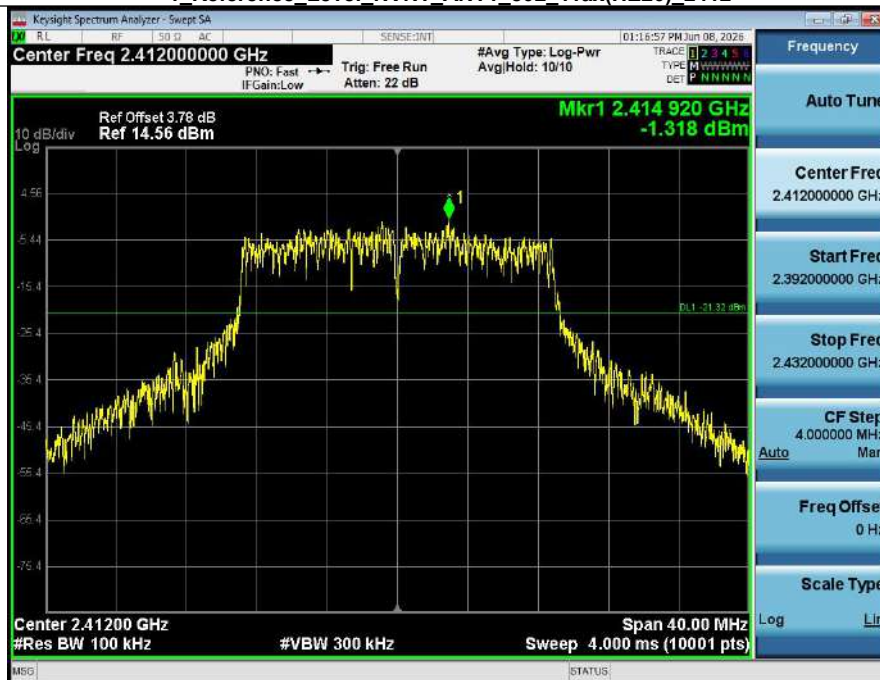
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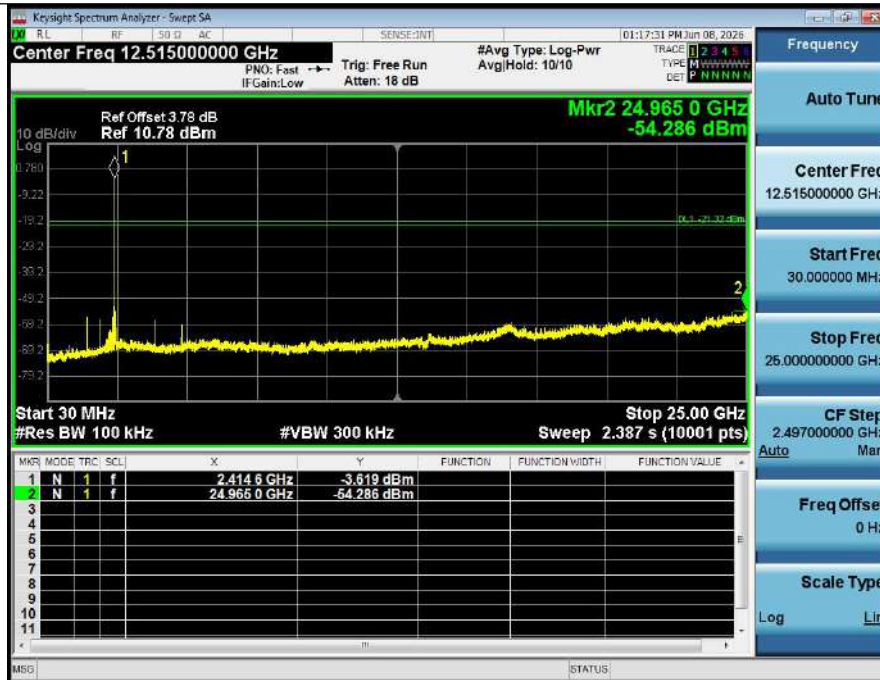
2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2462



1 Reference Level NVNT ANT1_802_11ax(HE20)_2412



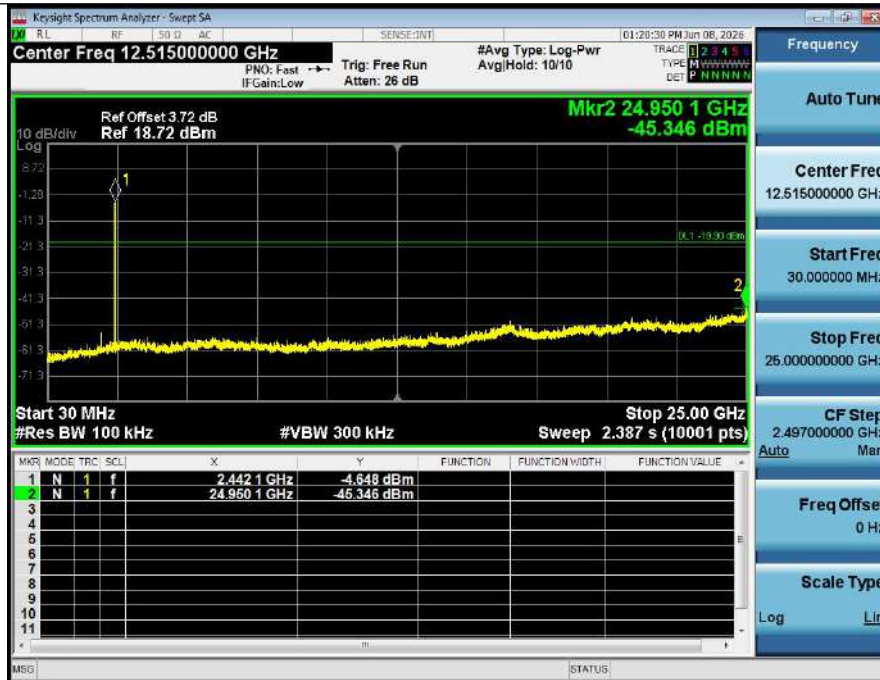
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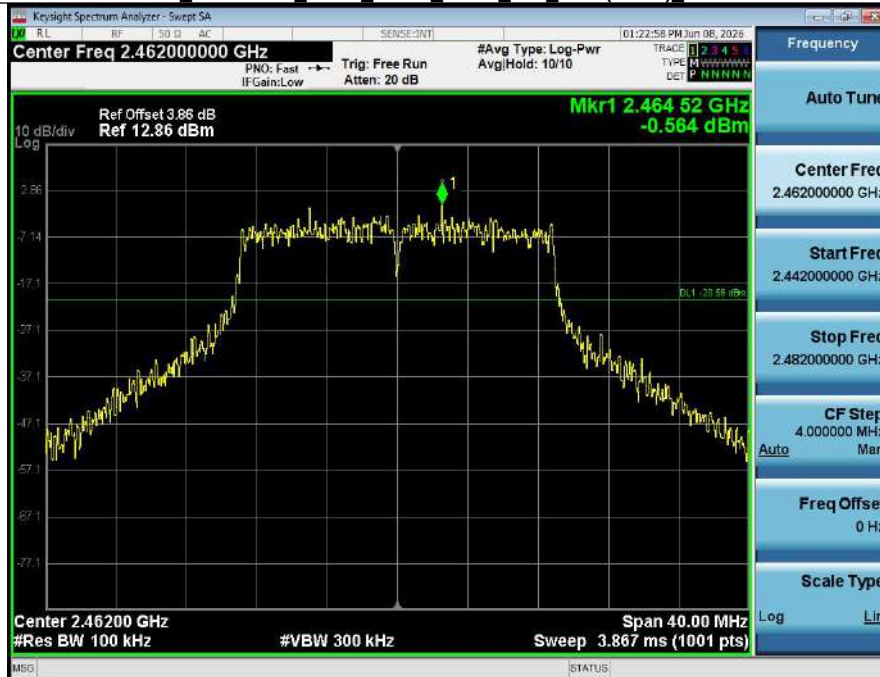
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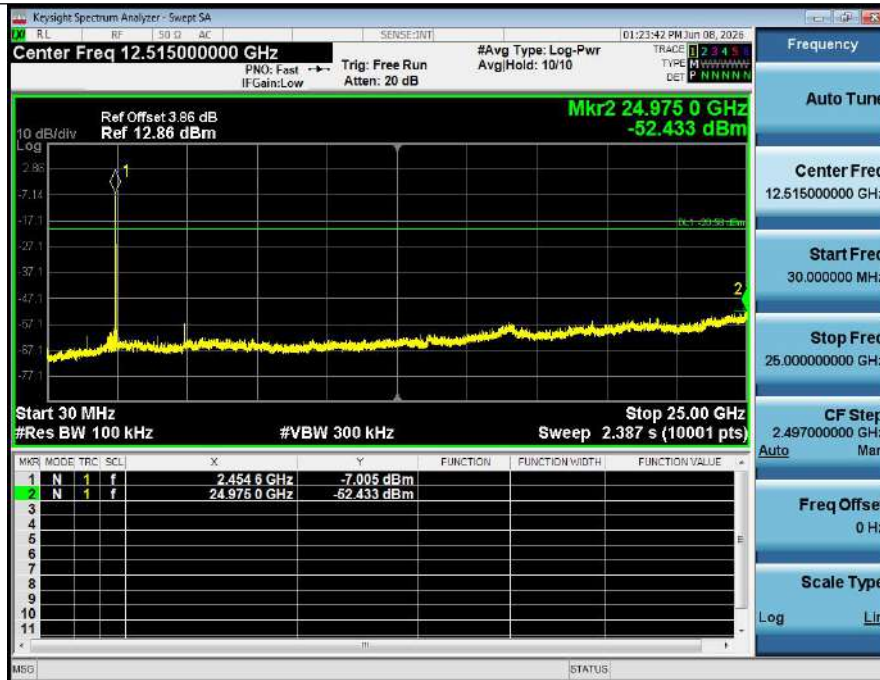
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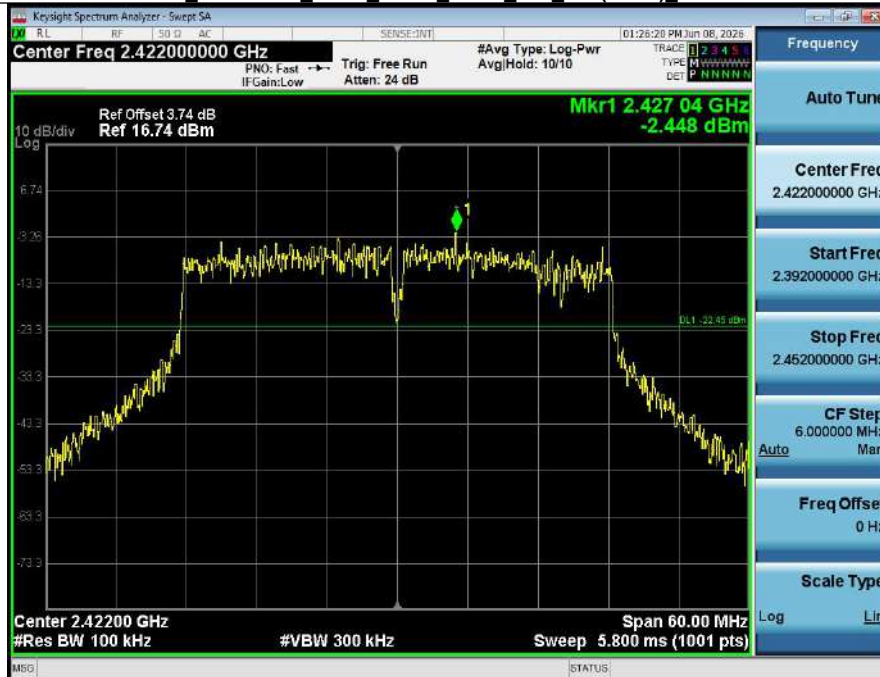
1_Reference_Level_NVNT_ANT1_802_11ax(HE20)_2462



2_Spurious_Emission_NVNT_ANT1_802_11ax(HE20)_2462



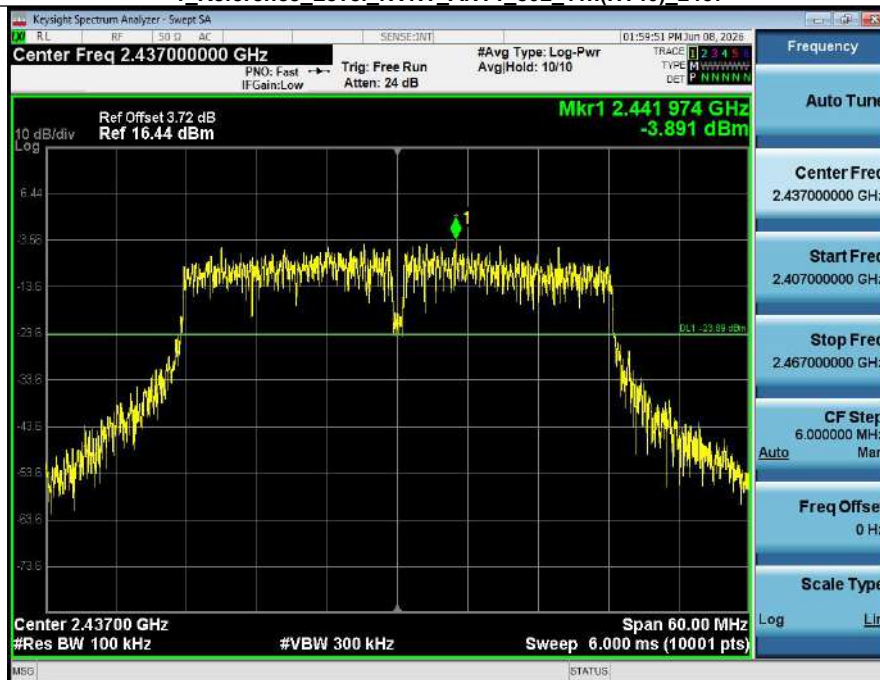
1 Reference Level NVNT_ANT1_802_11n(HT40)_2422



2 Spurious Emission NVNT_ANT1_802_11n(HT40)_2422



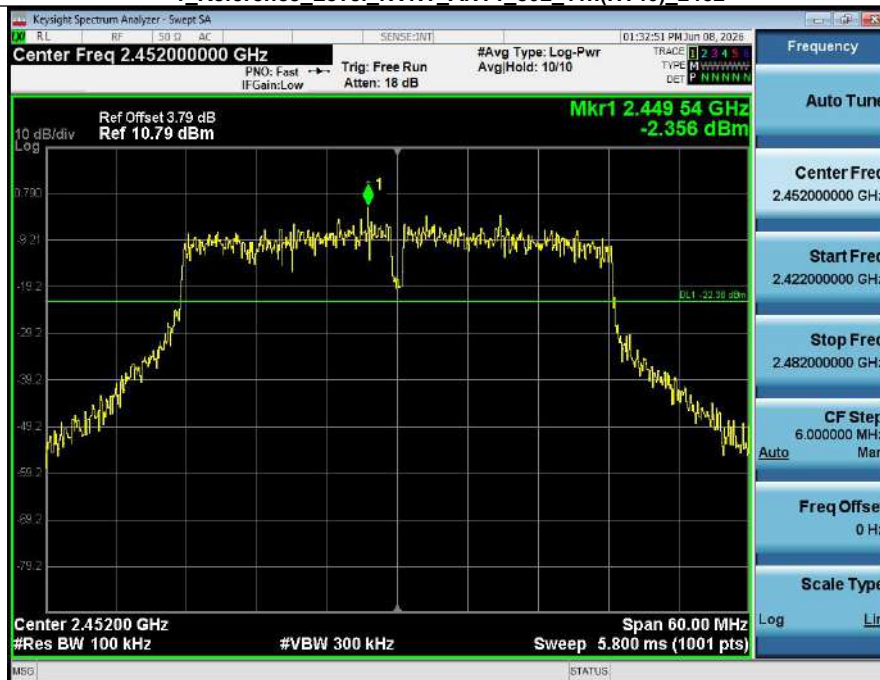
1 Reference Level NVNT_ANT1_802_11n(HT40)_2437



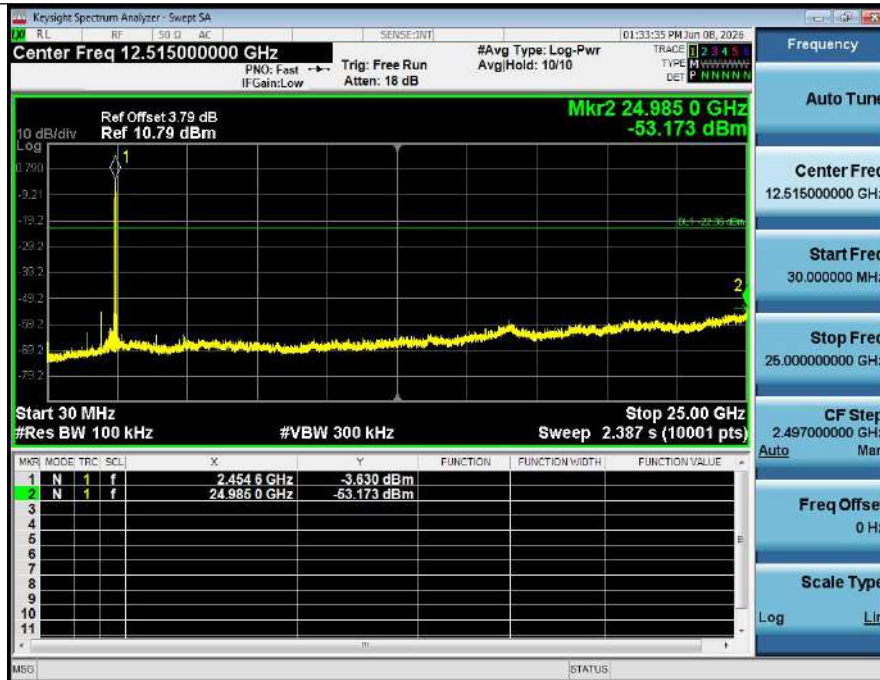
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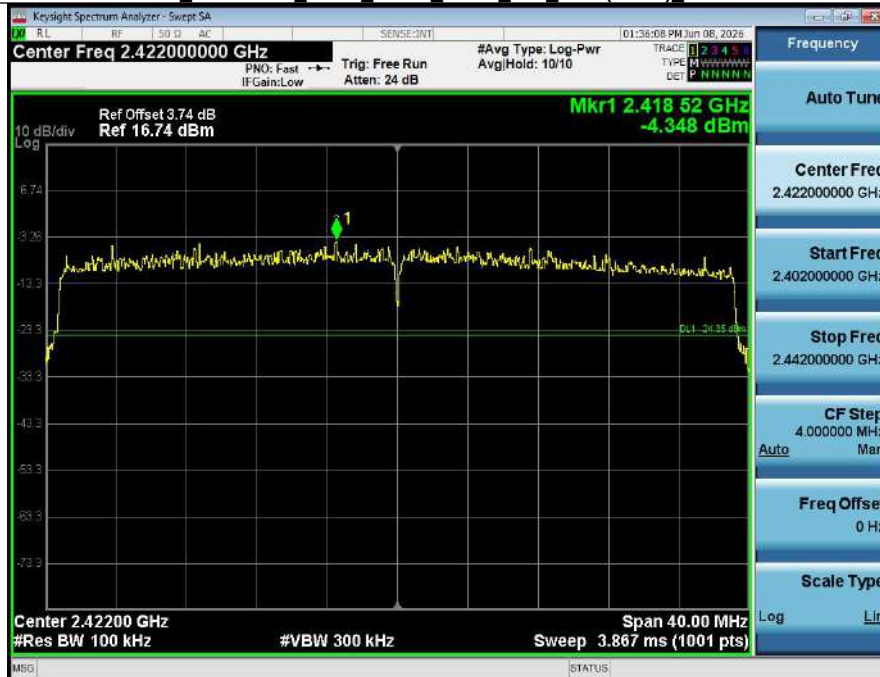
1 Reference Level NVNT_ANT1_802_11n(HT40)_2452



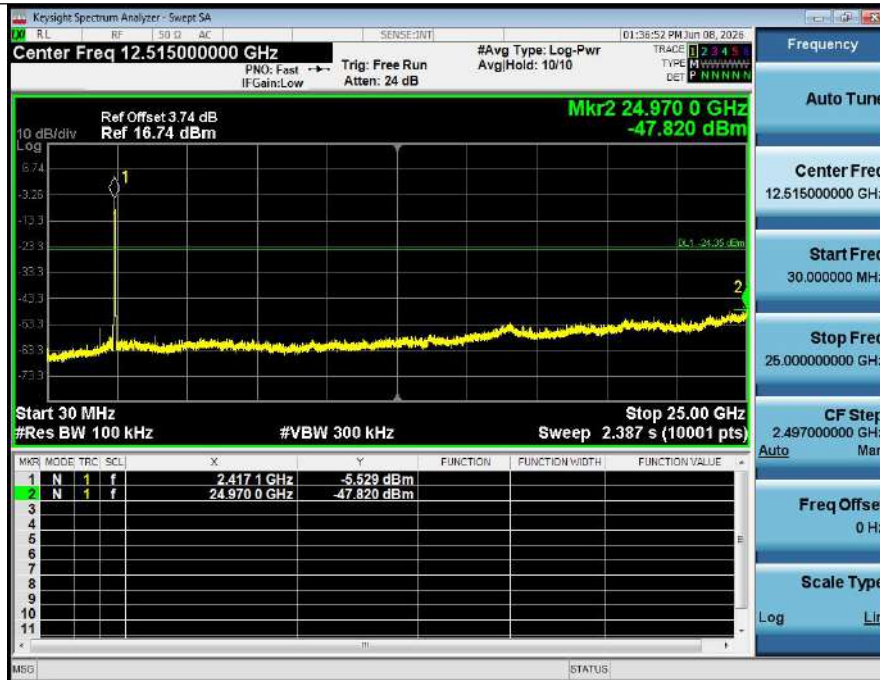
2 Spurious Emission NVNT_ANT1_802_11n(HT40)_2452



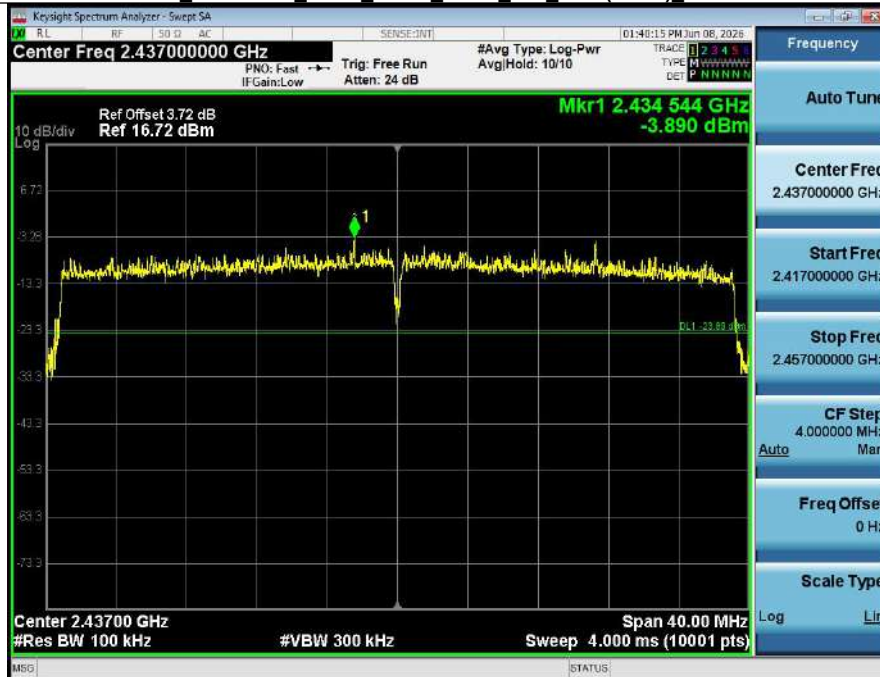
1_Reference_Level_NVNT_ANT1_802_11ax(HE40)_2422



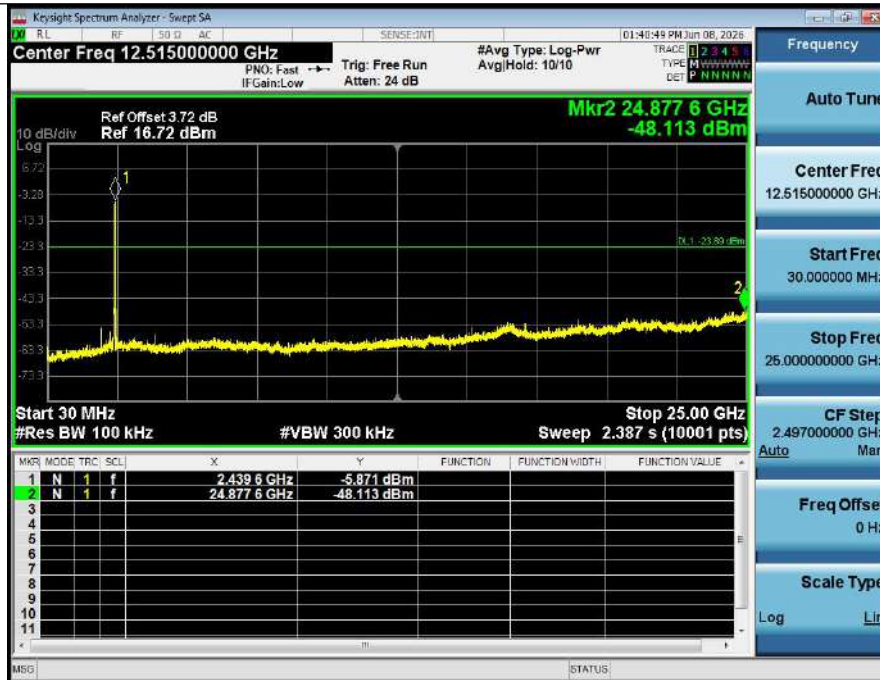
2_Spurious_Emission_NVNT_ANT1_802_11ax(HE40)_2422



1 Reference Level NVNT ANT1_802_11ax(HE40)_2437



2 Spurious Emission NVNT ANT1_802_11ax(HE40)_2437



1 Reference Level NVNT ANT1_802_11ax(HE40)_2452



2 Spurious Emission NVNT ANT1_802_11ax(HE40)_2452

