

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

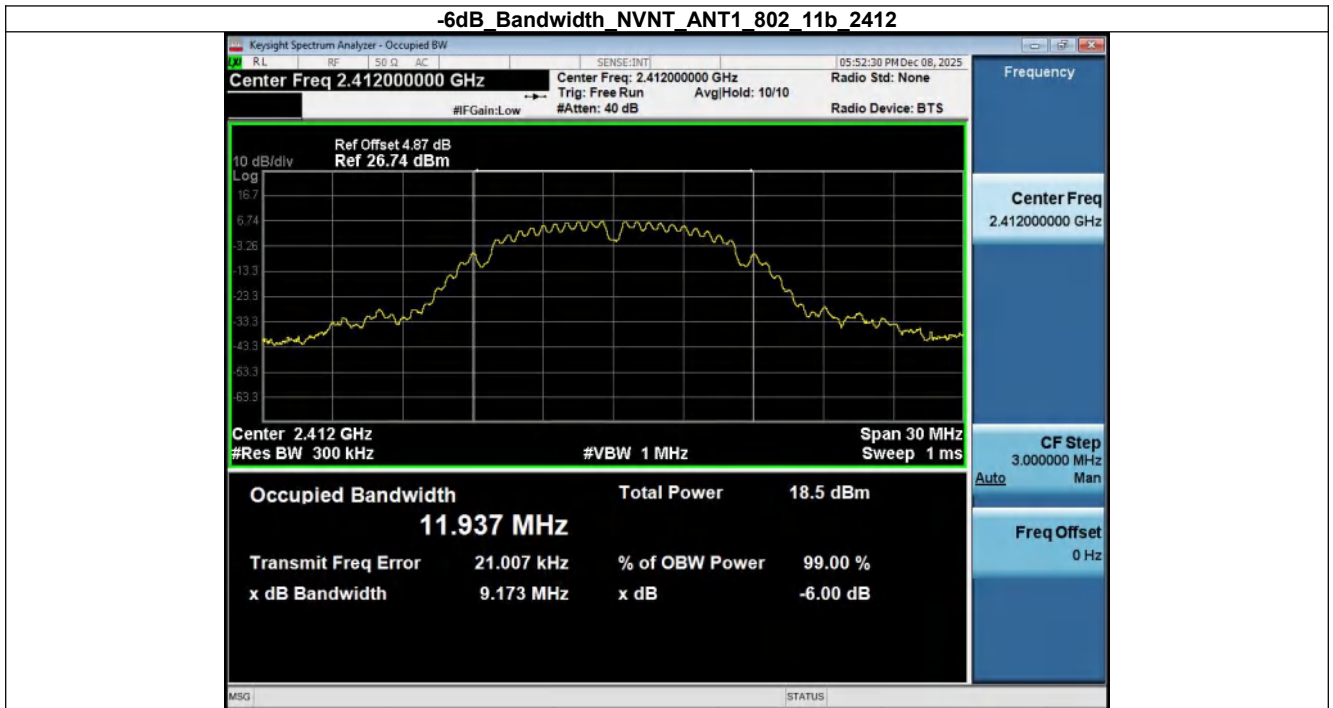
FCC ID:2BTMZ-Z01

FCC_2.4G_WIFI (Part15.247) Test Data

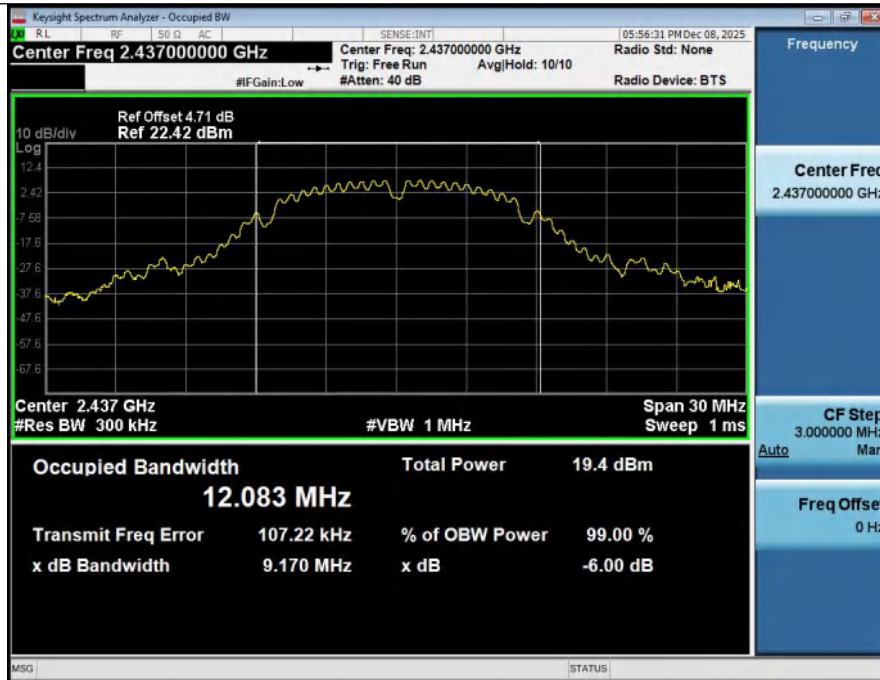
1. -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	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	16.41	500	Pass
NVNT	ANT1	802.11g	2437.00	16.48	500	Pass
NVNT	ANT1	802.11g	2462.00	16.43	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.37	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.41	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.43	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	36.22	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	36.12	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.87	500	Pass

-6dB Bandwidth_NVNT ANT1 802_11b 2412



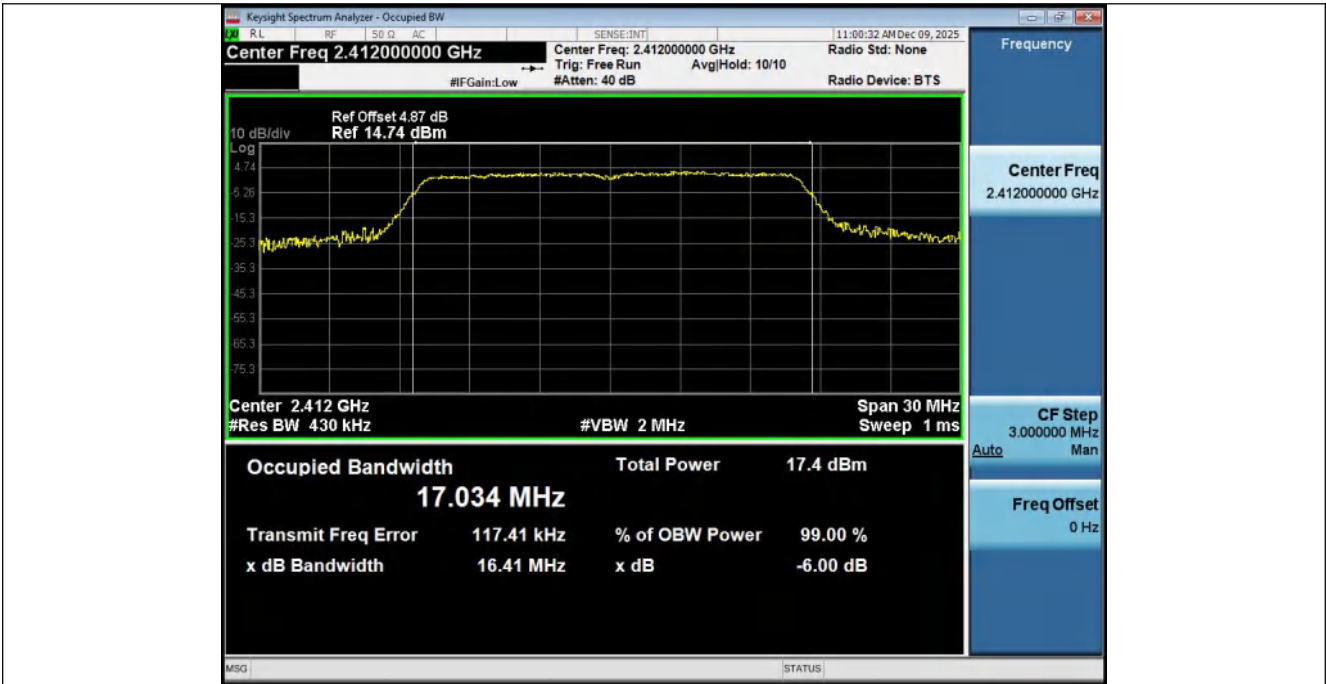
-6dB Bandwidth_NVNT ANT1 802_11b 2437



-6dB_Bandwidth_NVNT_ANT1_802_11b_2462



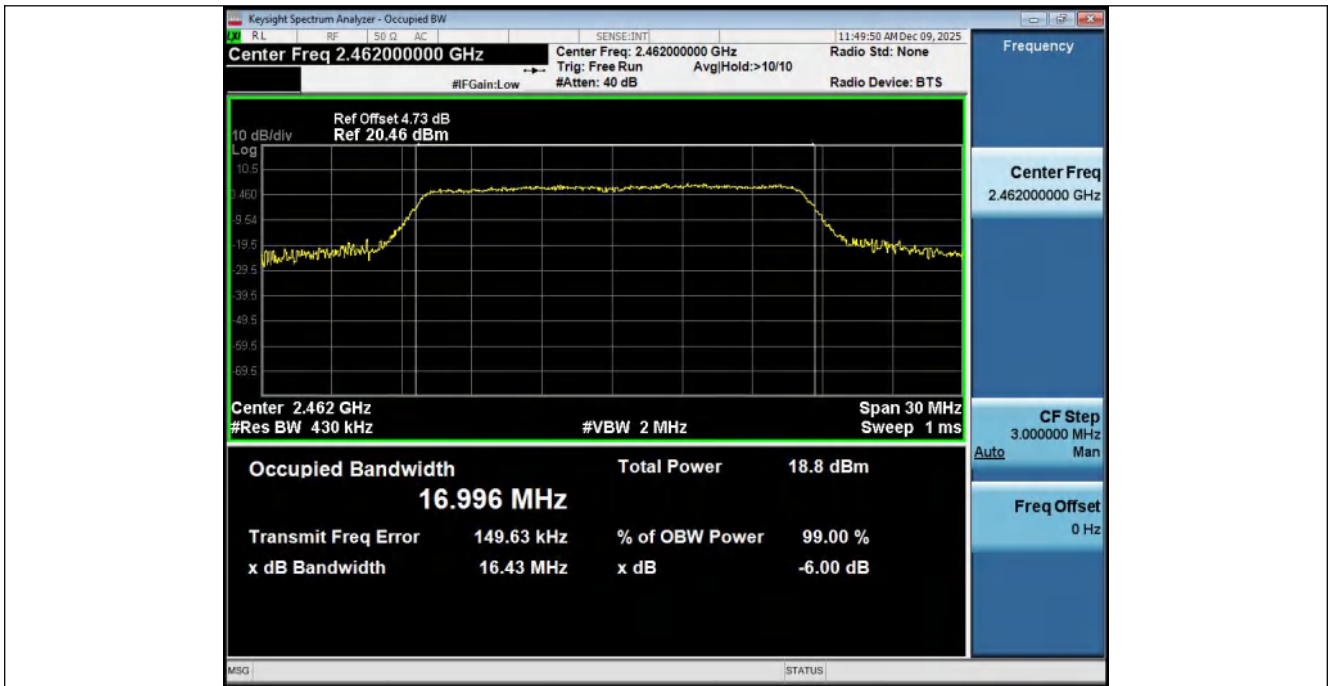
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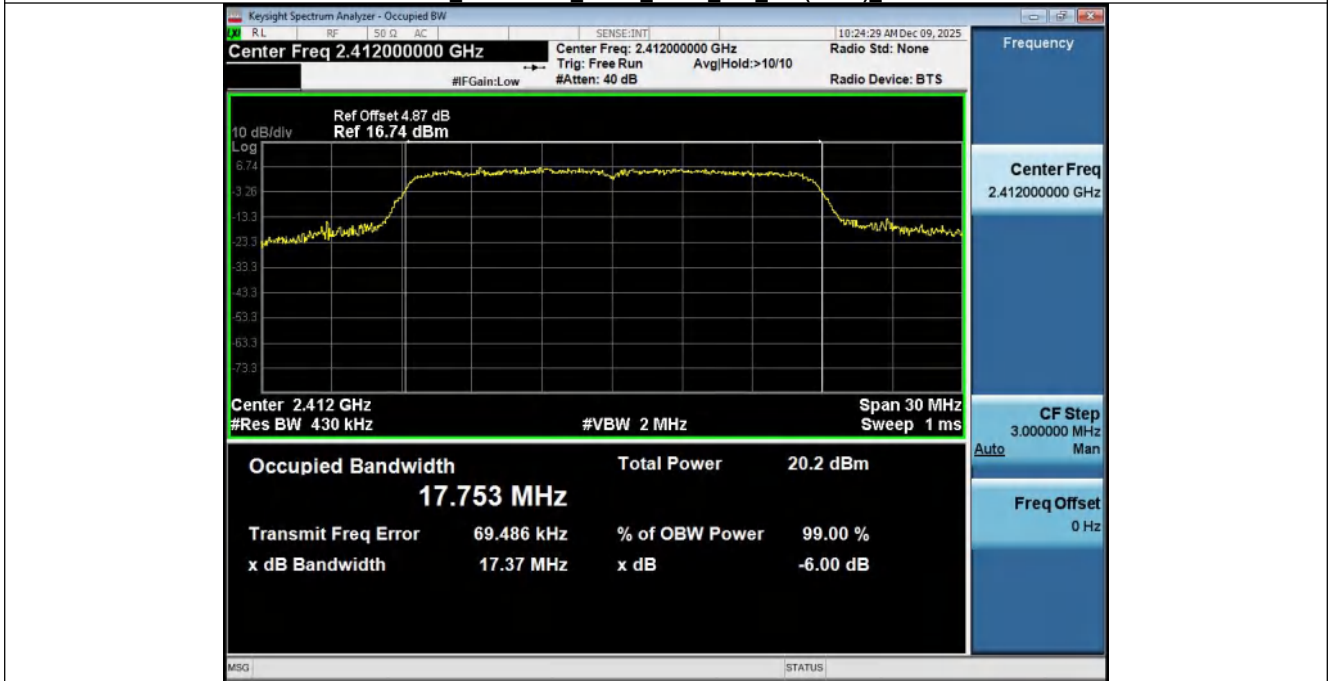
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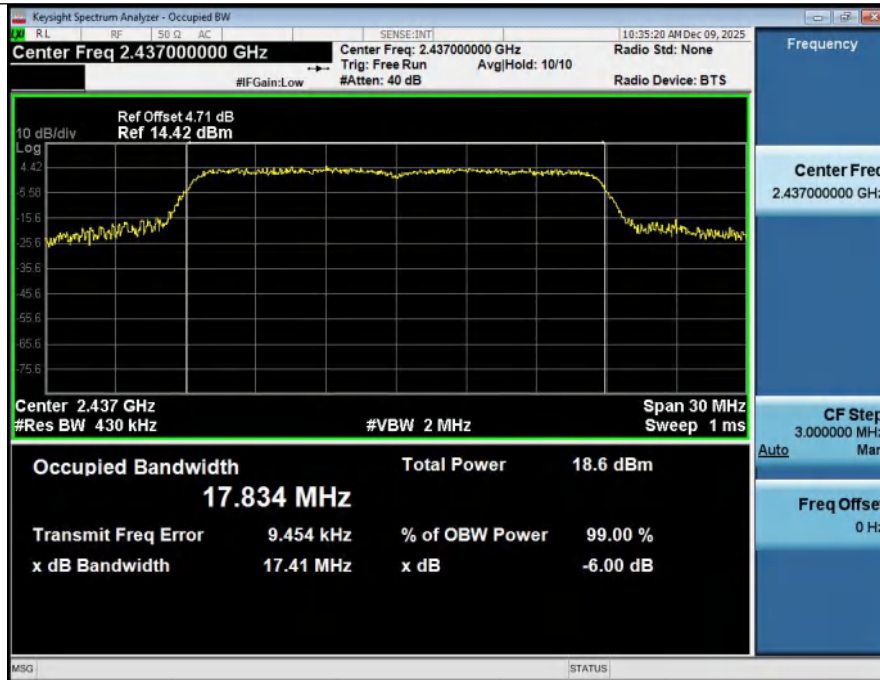
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-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



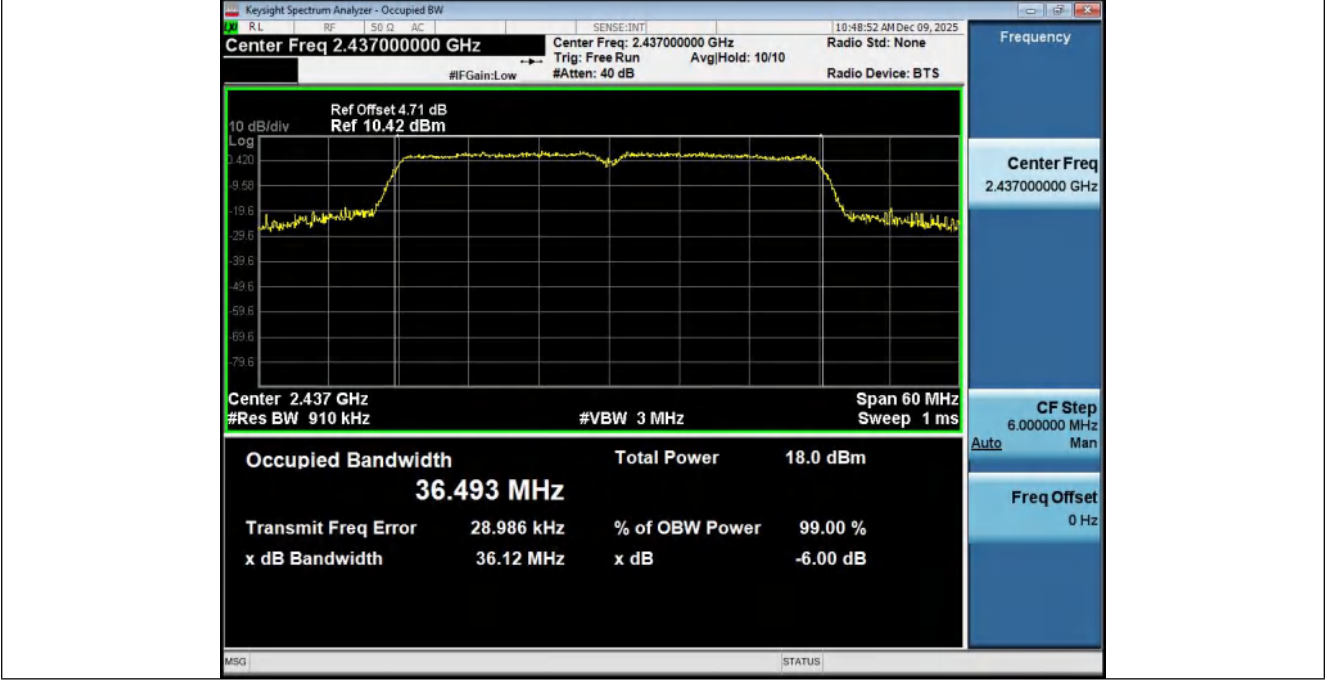
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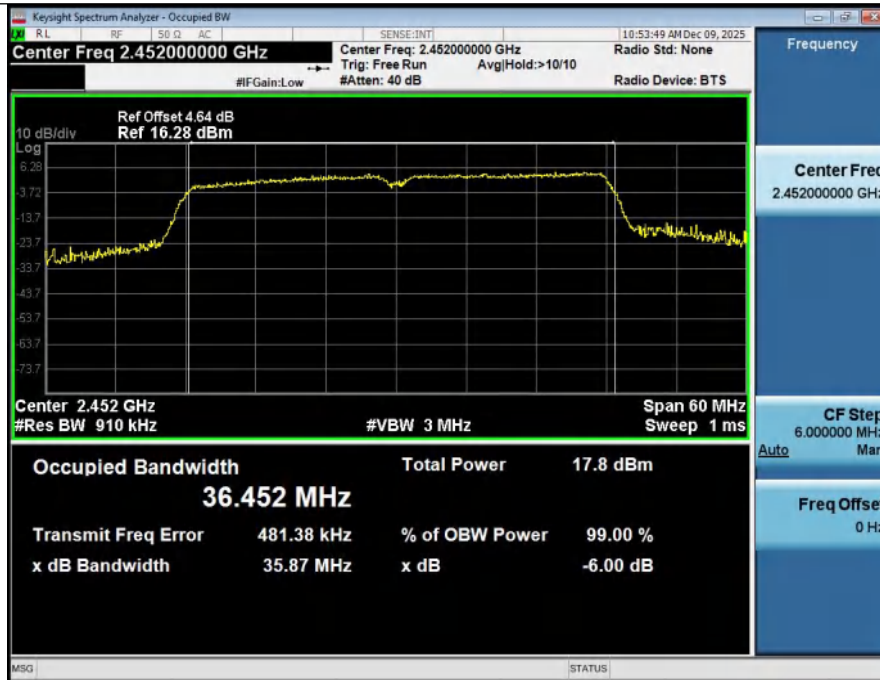
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-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452

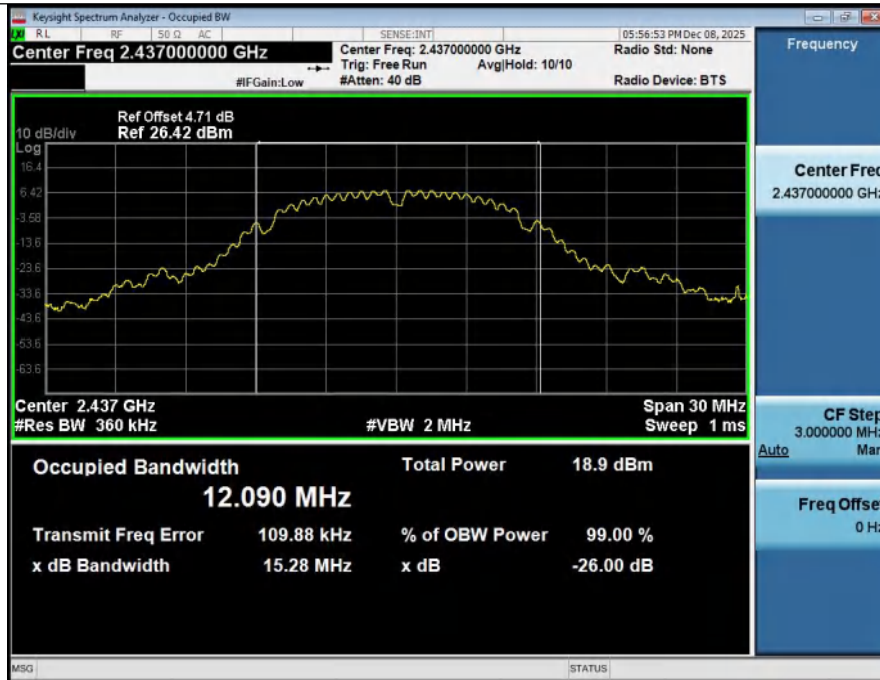


2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	11.938
NVNT	ANT1	802.11b	2437.00	12.090
NVNT	ANT1	802.11b	2462.00	12.009
NVNT	ANT1	802.11g	2412.00	17.121
NVNT	ANT1	802.11g	2437.00	17.153
NVNT	ANT1	802.11g	2462.00	17.200
NVNT	ANT1	802.11n(HT20)	2412.00	17.951
NVNT	ANT1	802.11n(HT20)	2437.00	17.901
NVNT	ANT1	802.11n(HT20)	2462.00	17.865
NVNT	ANT1	802.11n(HT40)	2422.00	36.527
NVNT	ANT1	802.11n(HT40)	2437.00	36.543
NVNT	ANT1	802.11n(HT40)	2452.00	36.532



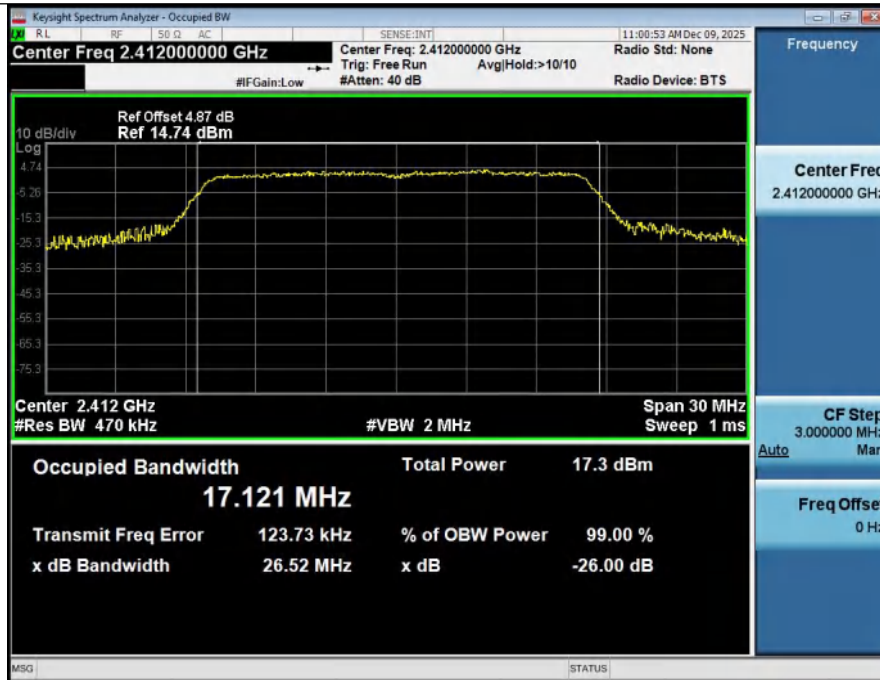
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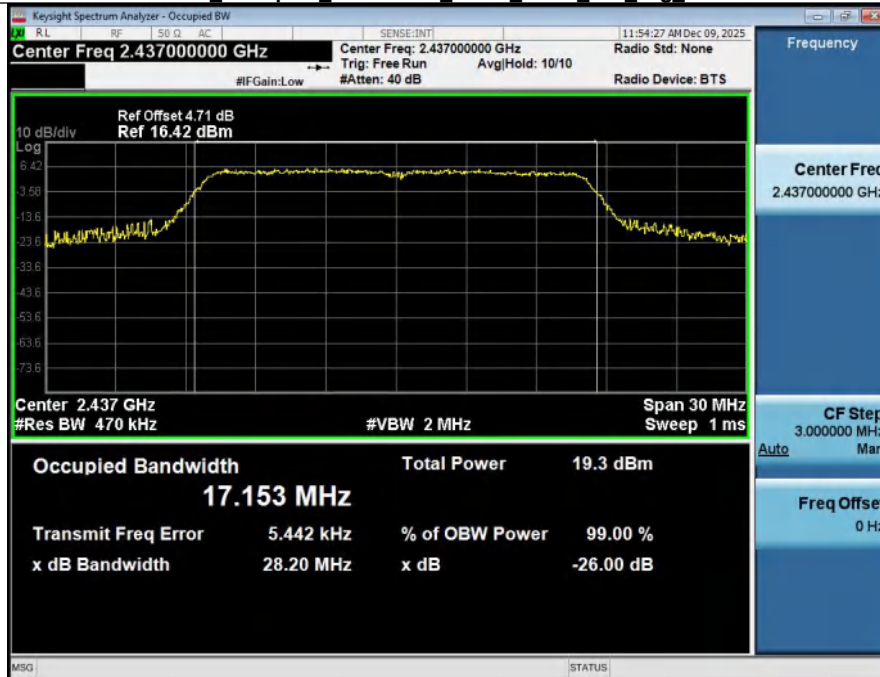
99% Occupied Bandwidth NVNT ANT1_802_11b_2462



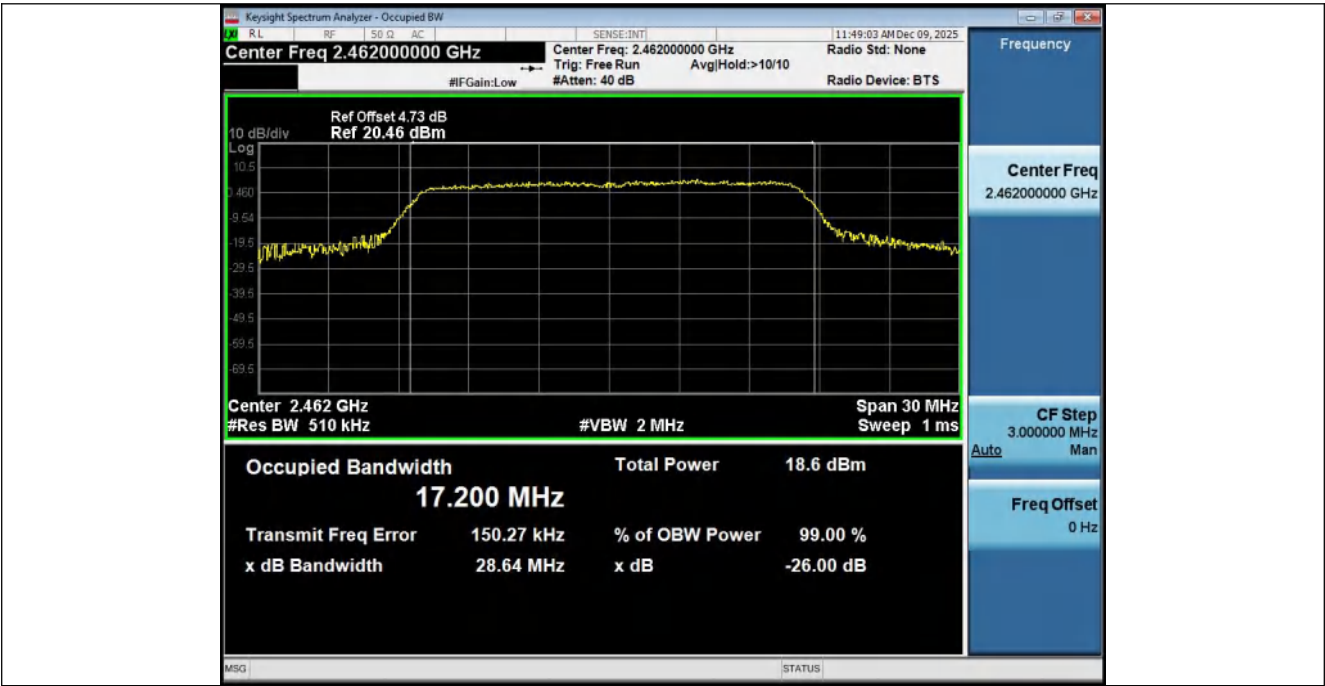
99% Occupied Bandwidth NVNT ANT1_802_11g_2412



99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2437



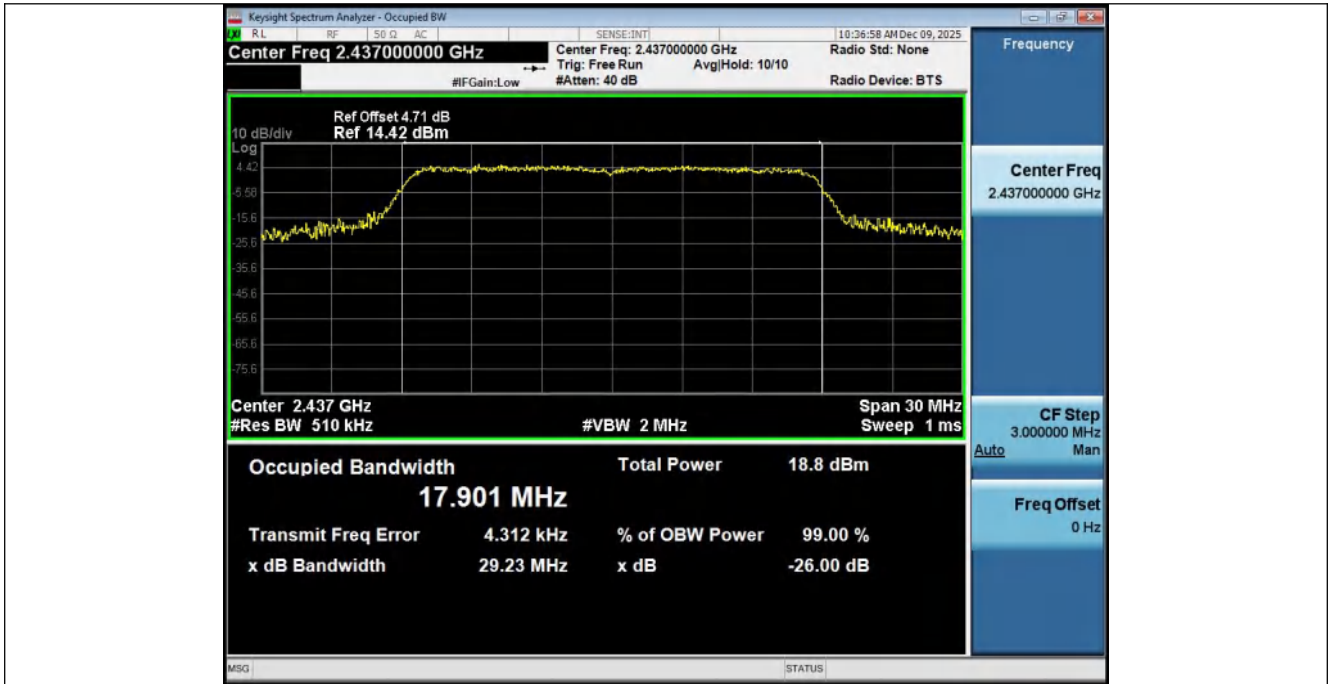
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99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



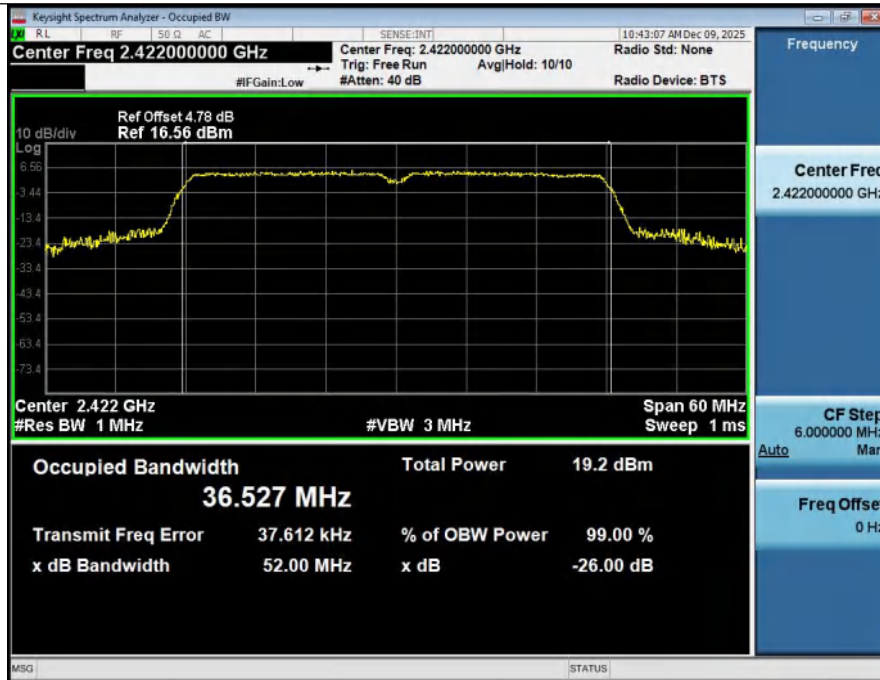
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99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437

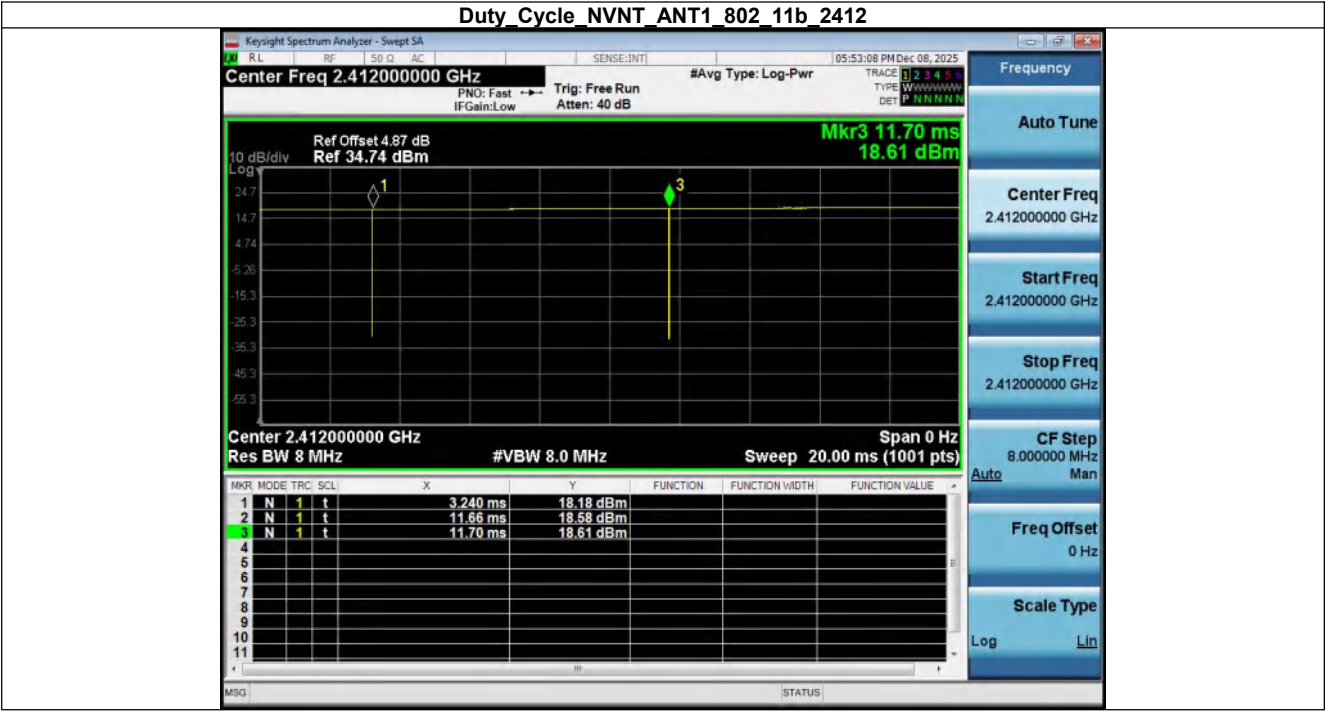


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452

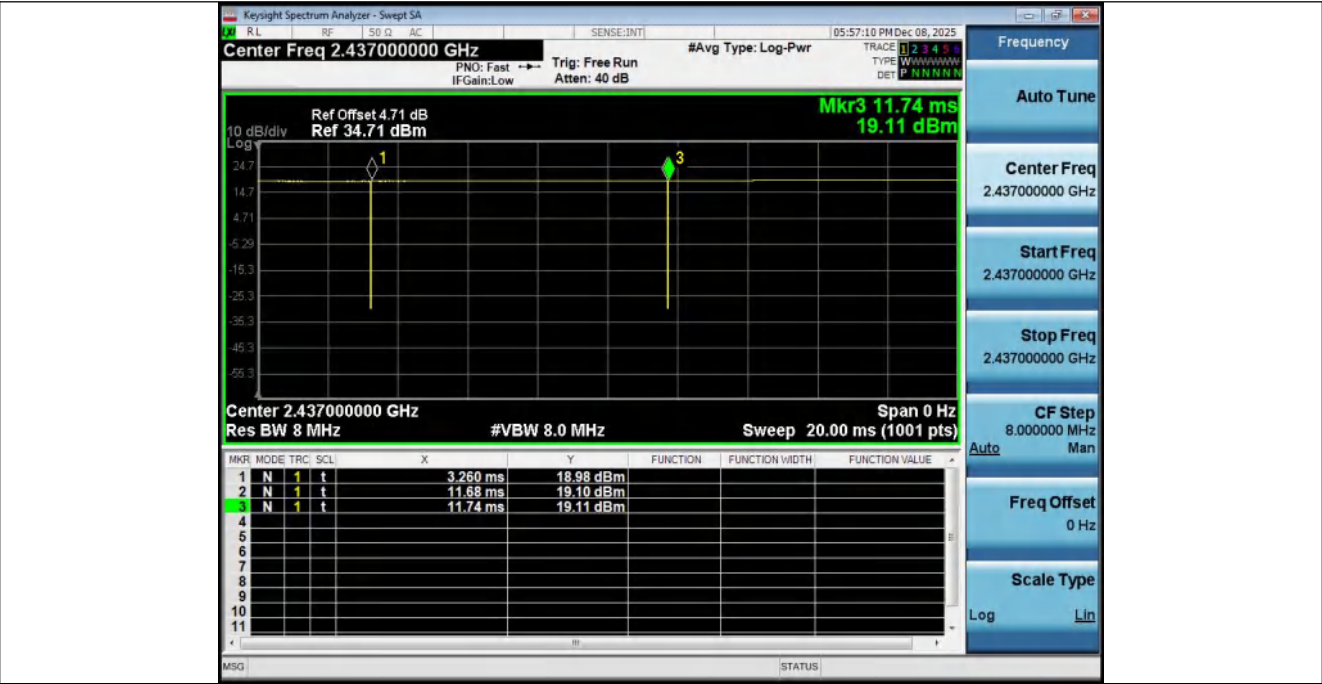


3. Duty Cycle

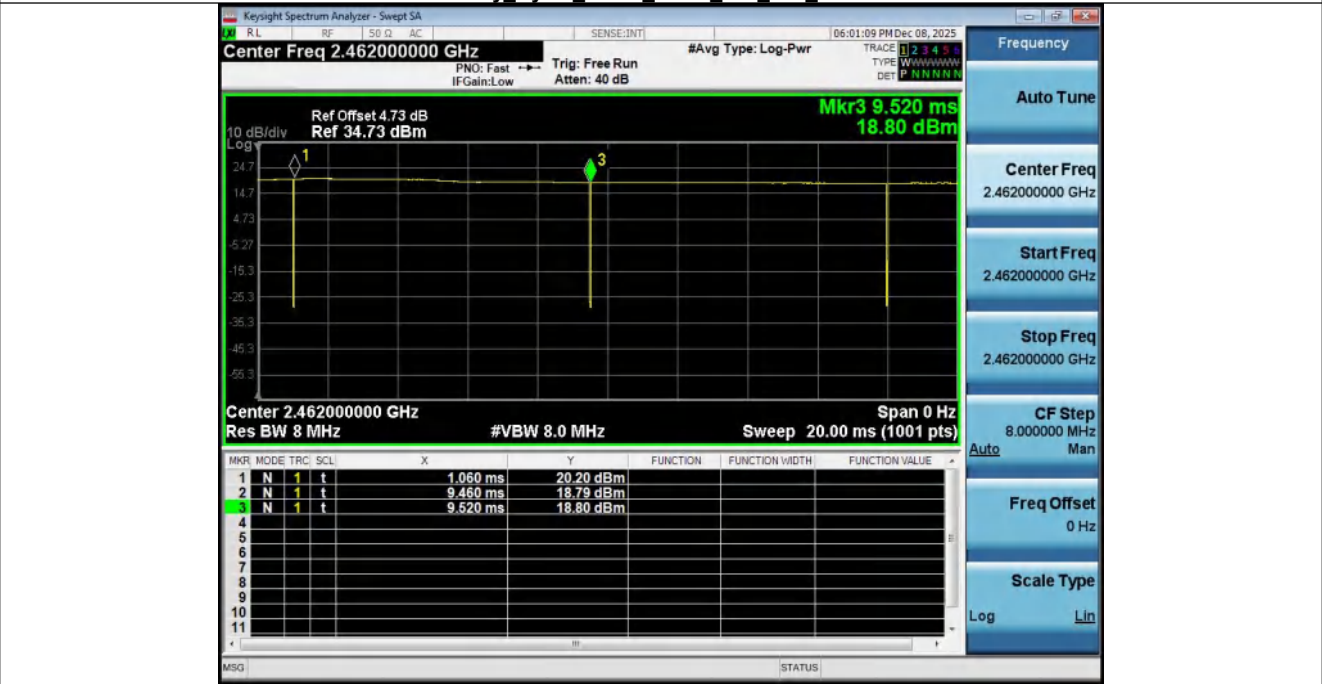
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.76	0.00
NVNT	ANT1	802.11b	2437.00	99.53	0.00
NVNT	ANT1	802.11b	2462.00	99.53	0.00
NVNT	ANT1	802.11g	2412.00	97.26	0.12
NVNT	ANT1	802.11g	2437.00	97.26	0.12
NVNT	ANT1	802.11g	2462.00	97.26	0.12
NVNT	ANT1	802.11n(HT20)	2412.00	96.77	0.14
NVNT	ANT1	802.11n(HT20)	2437.00	96.77	0.14
NVNT	ANT1	802.11n(HT20)	2462.00	96.77	0.14
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



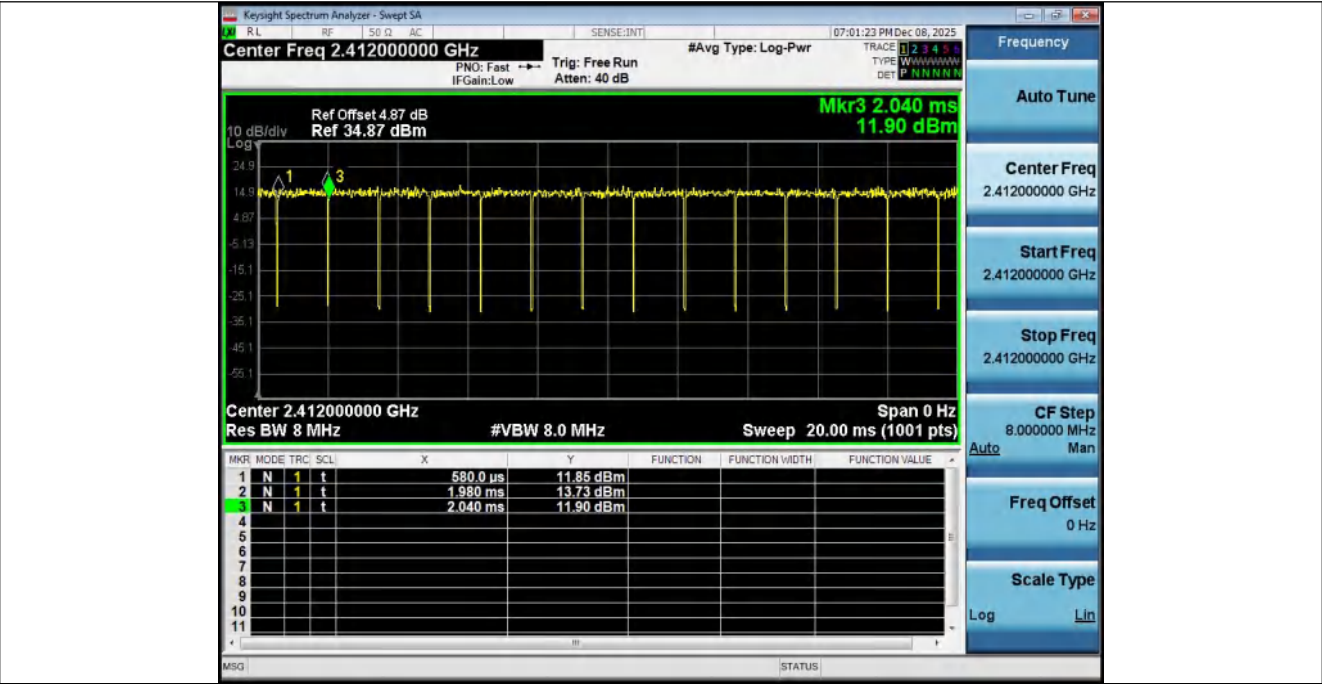
Duty Cycle NVNT_ANT1_802_11b_2437



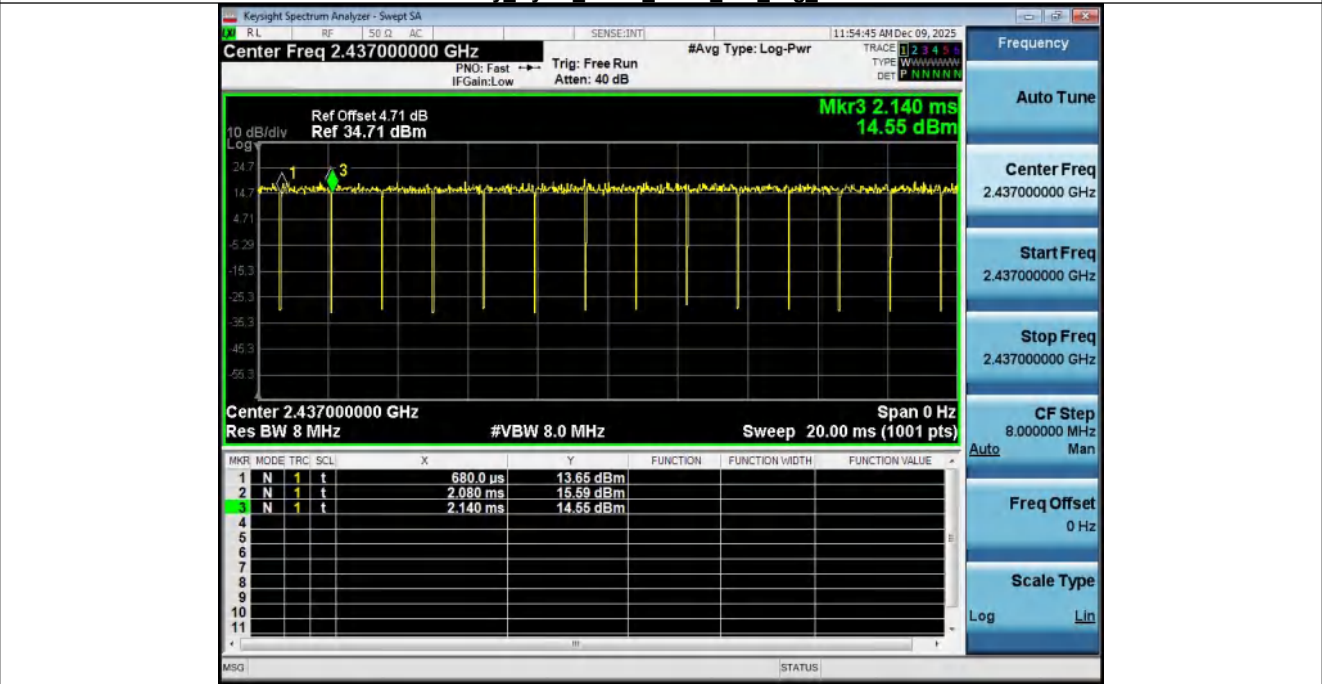
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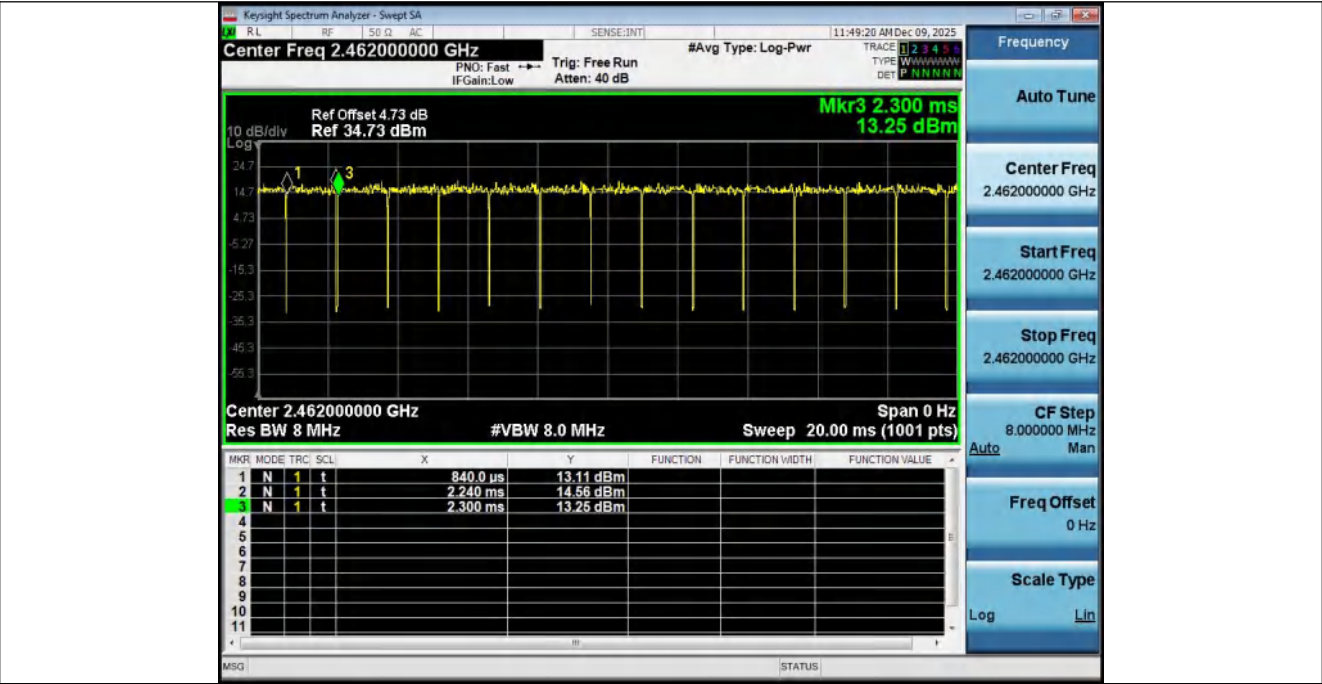
Duty_Cycle_NVNT_ANT1_802_11g_2412



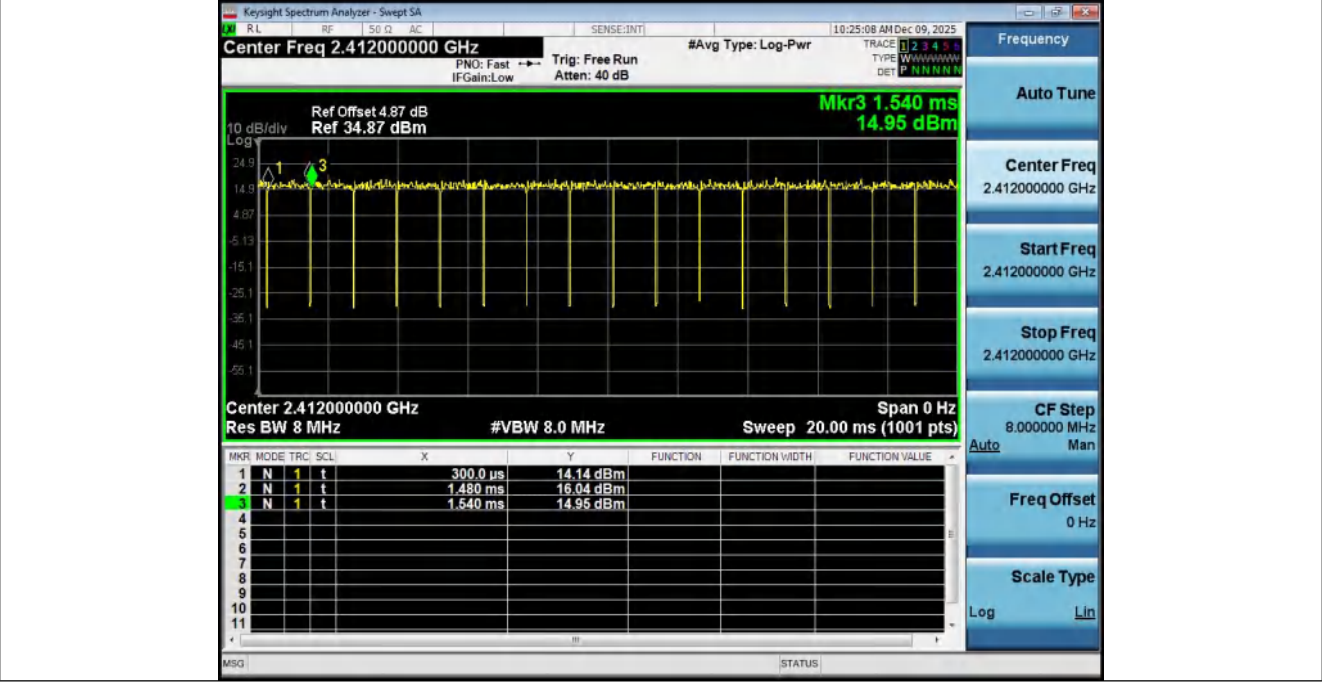
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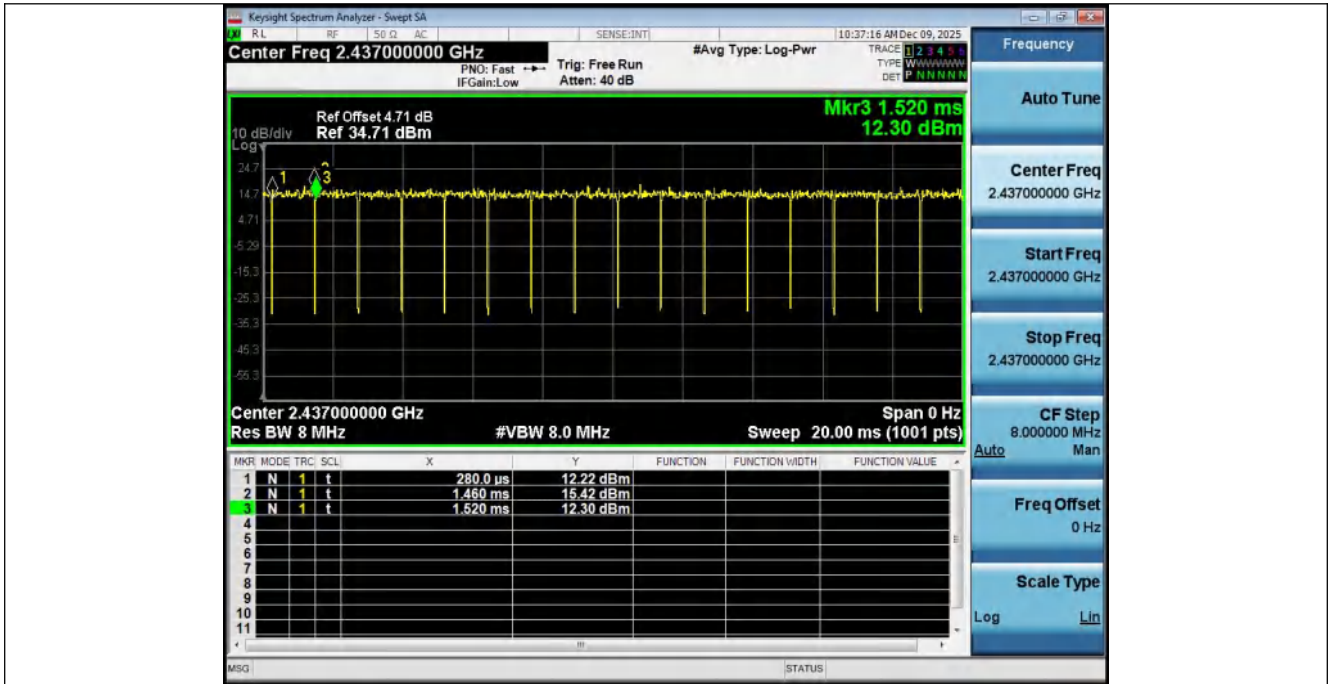
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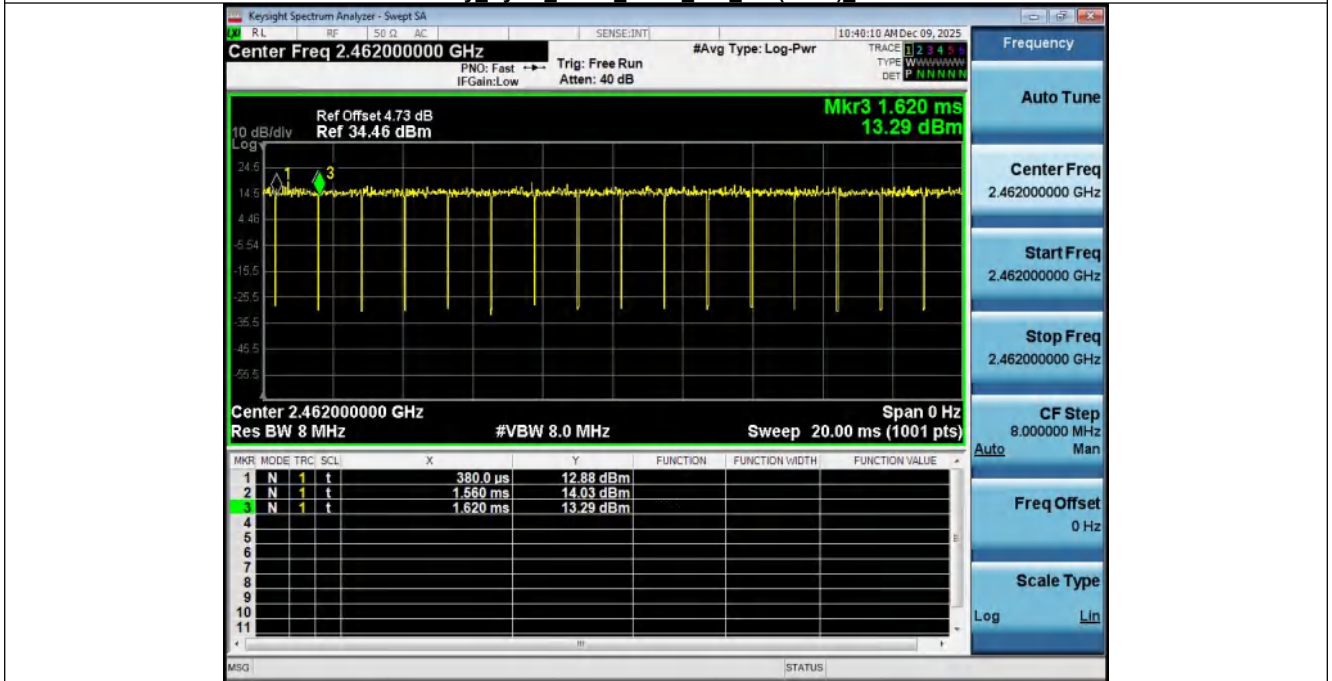
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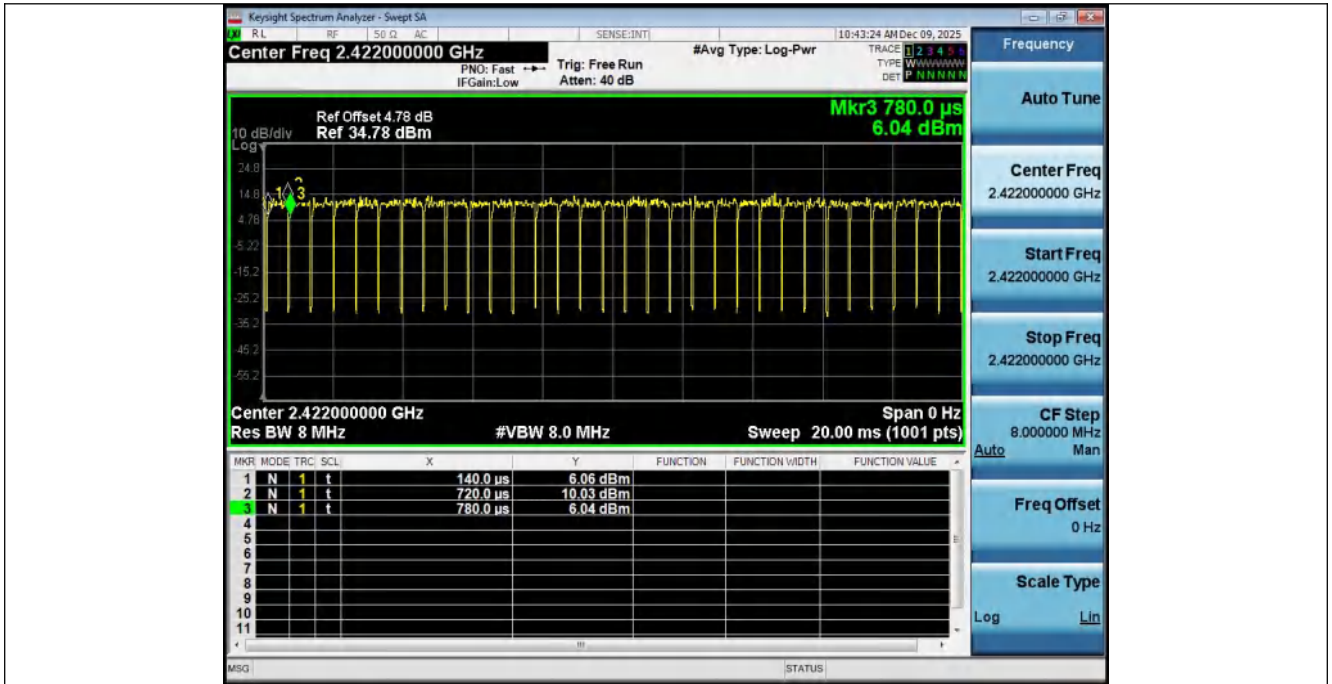
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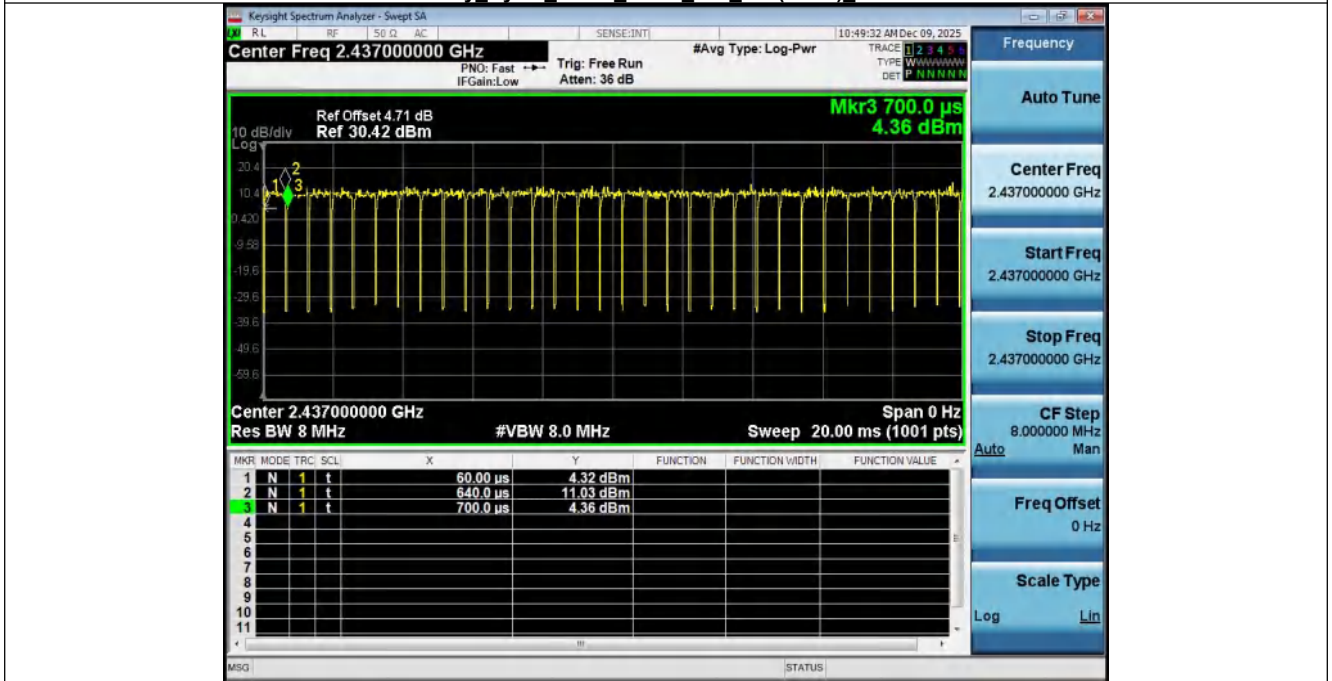
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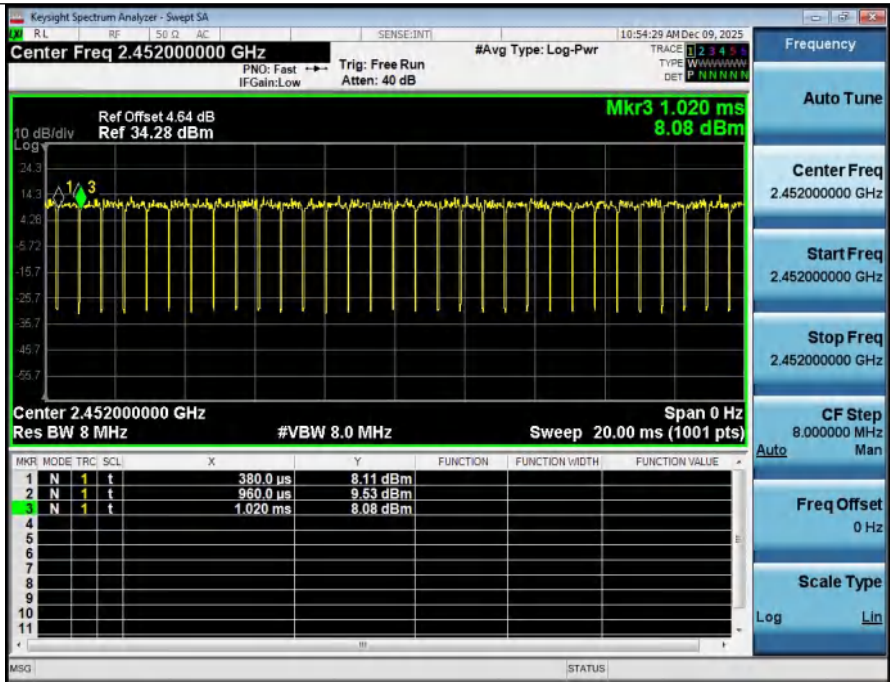
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2422



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2437



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2452

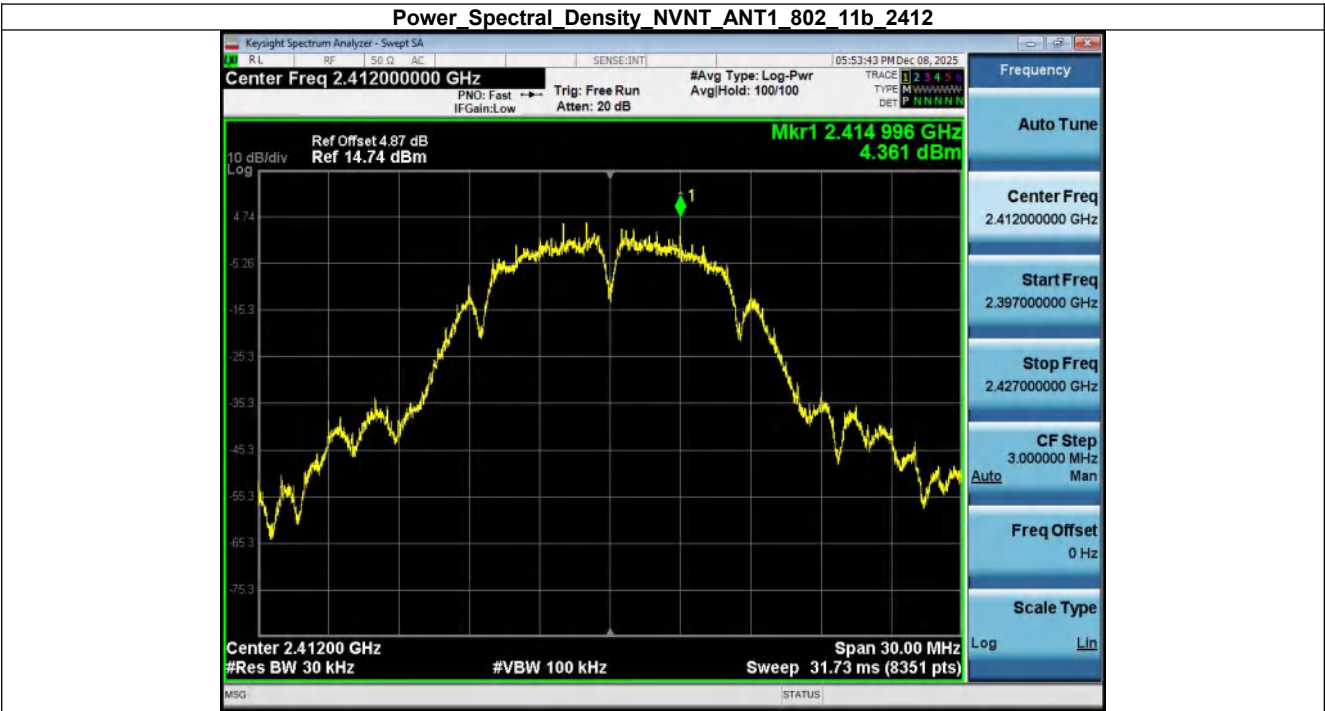


4. MAX. Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	7.10	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	8.04	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	7.73	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	7.94	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	8.91	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	8.26	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	8.81	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	8.16	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	8.41	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	8.21	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	8.07	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	7.03	30	Pass

5. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD(dBm/30kHz)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	4.36	-10.00	-5.64	8	Pass
NVNT	ANT1	802.11b	2437.00	3.06	-10.00	-6.94	8	Pass
NVNT	ANT1	802.11b	2462.00	2.88	-10.00	-7.12	8	Pass
NVNT	ANT1	802.11g	2412.00	-5.50	-10.00	-15.50	8	Pass
NVNT	ANT1	802.11g	2437.00	-3.34	-10.00	-13.34	8	Pass
NVNT	ANT1	802.11g	2462.00	-3.94	-10.00	-13.94	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-3.49	-10.00	-13.49	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-4.96	-10.00	-14.96	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-5.00	-10.00	-15.00	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-8.68	-10.00	-18.68	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-9.63	-10.00	-19.63	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-8.84	-10.00	-18.84	8	Pass



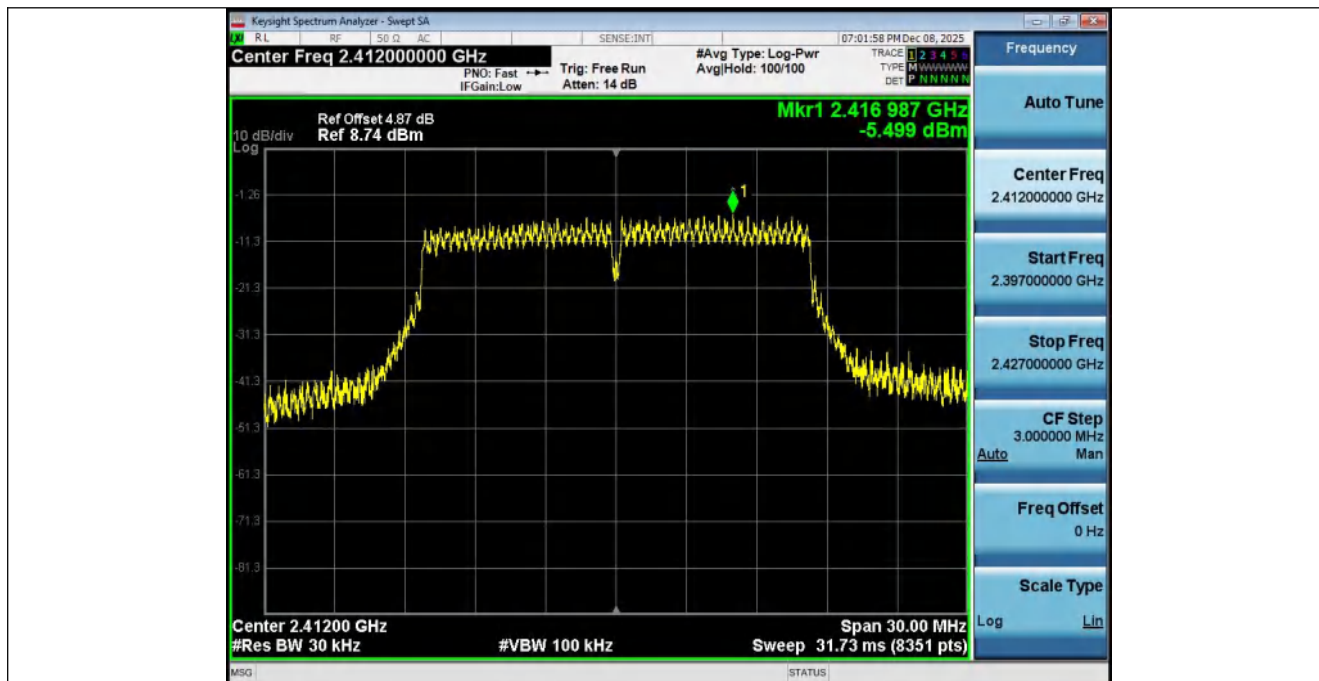
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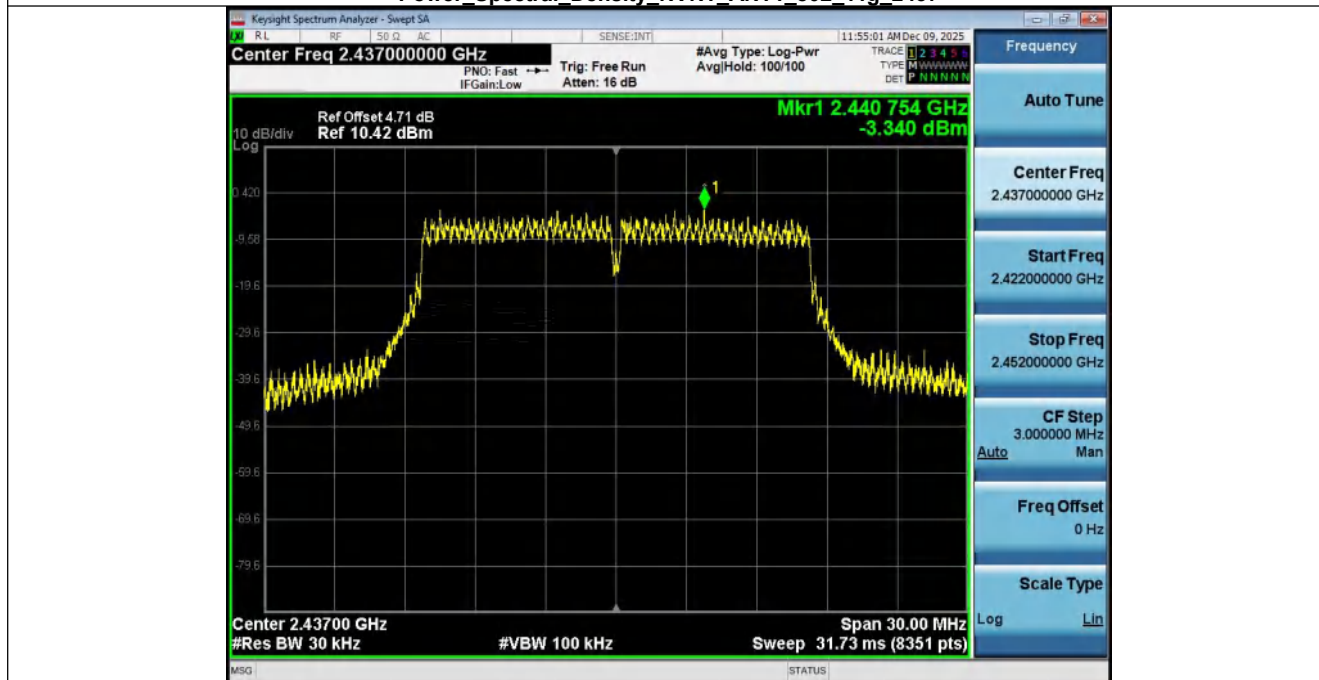
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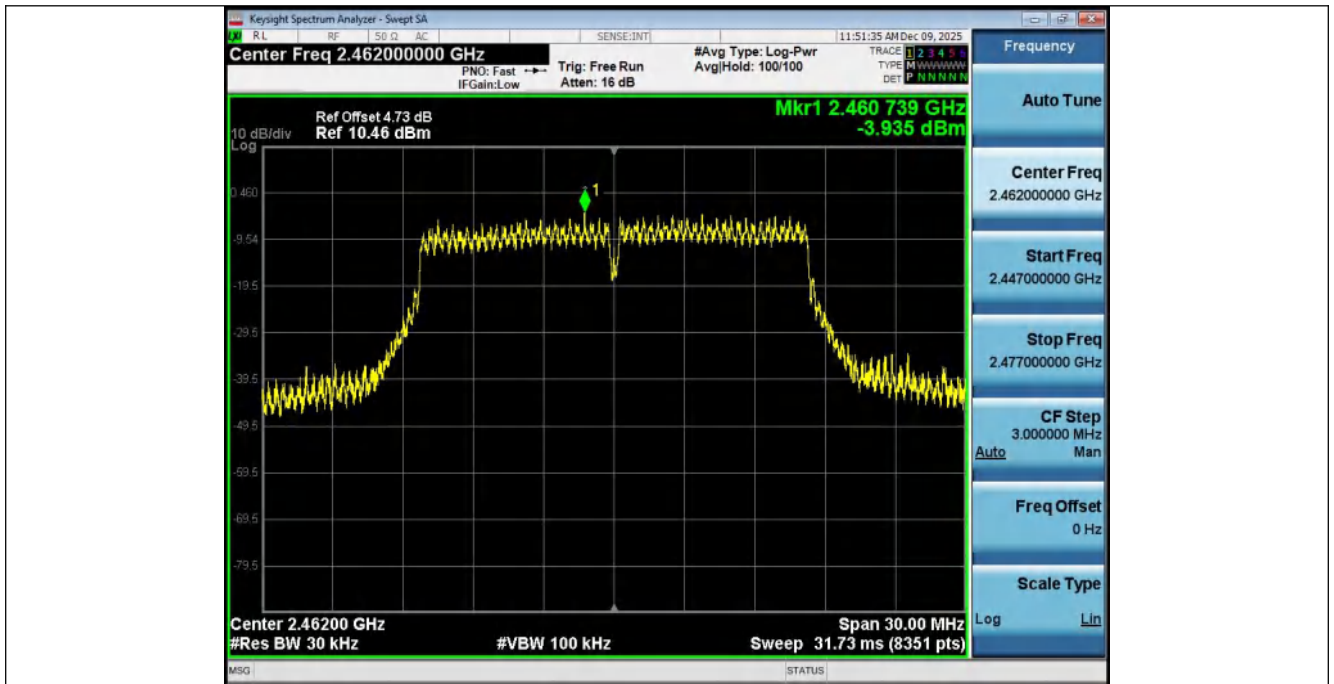
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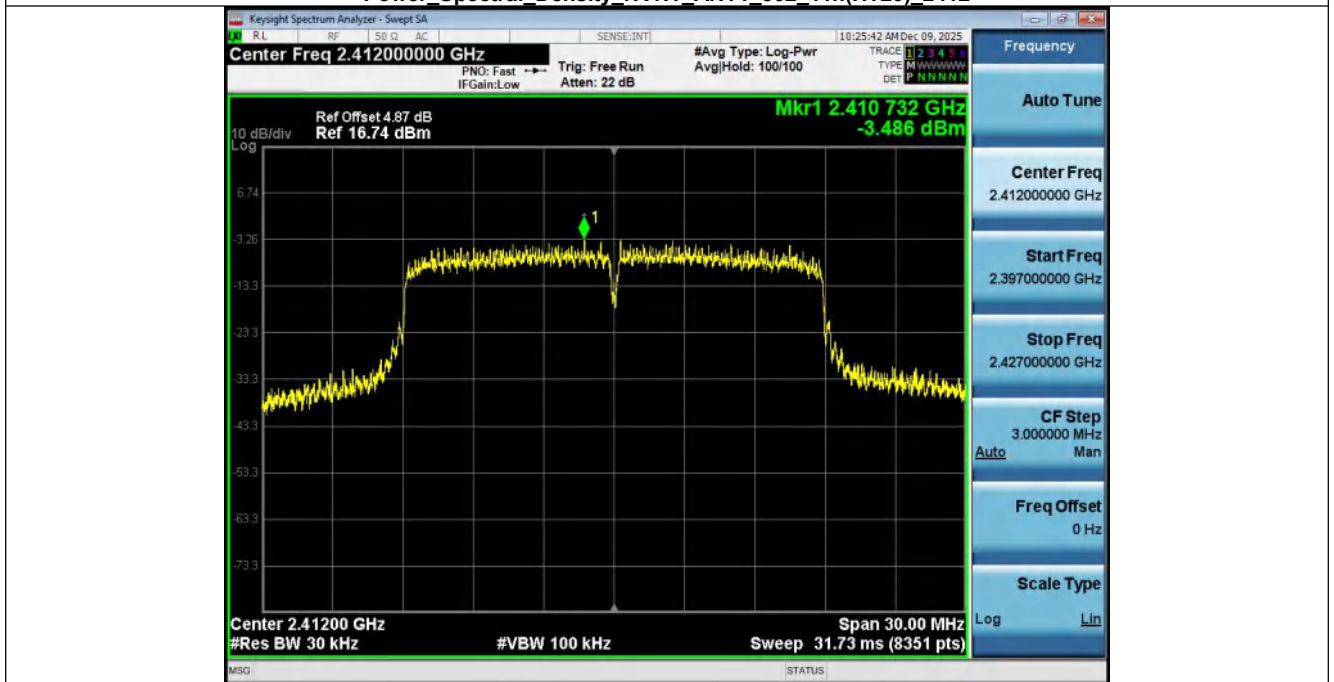
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Power_Spectral_Density_NVNT_ANT1_802_11g_2462



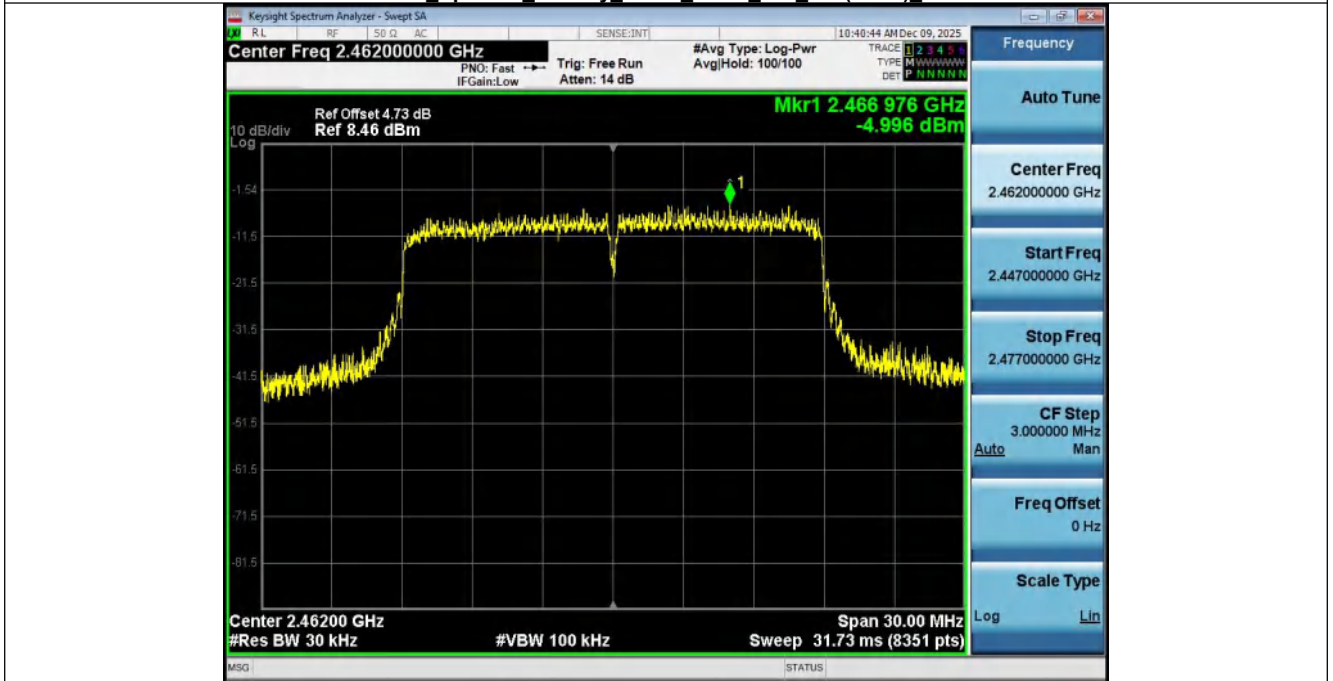
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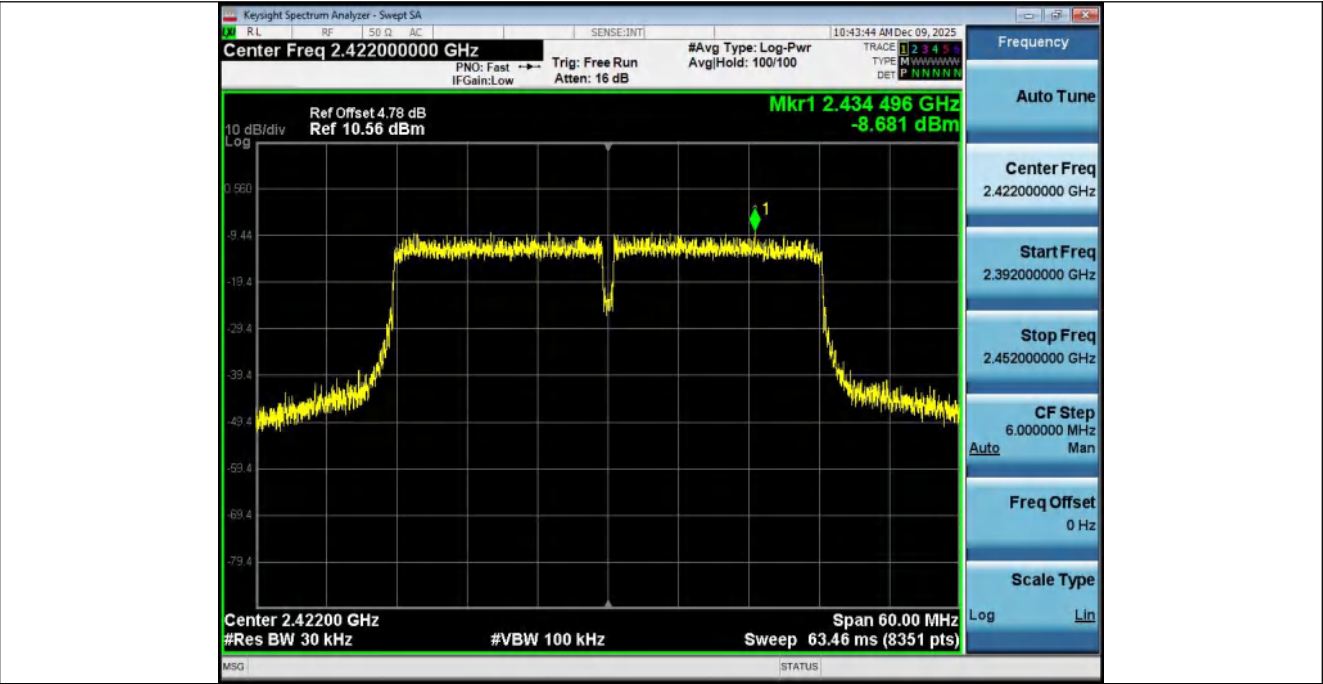
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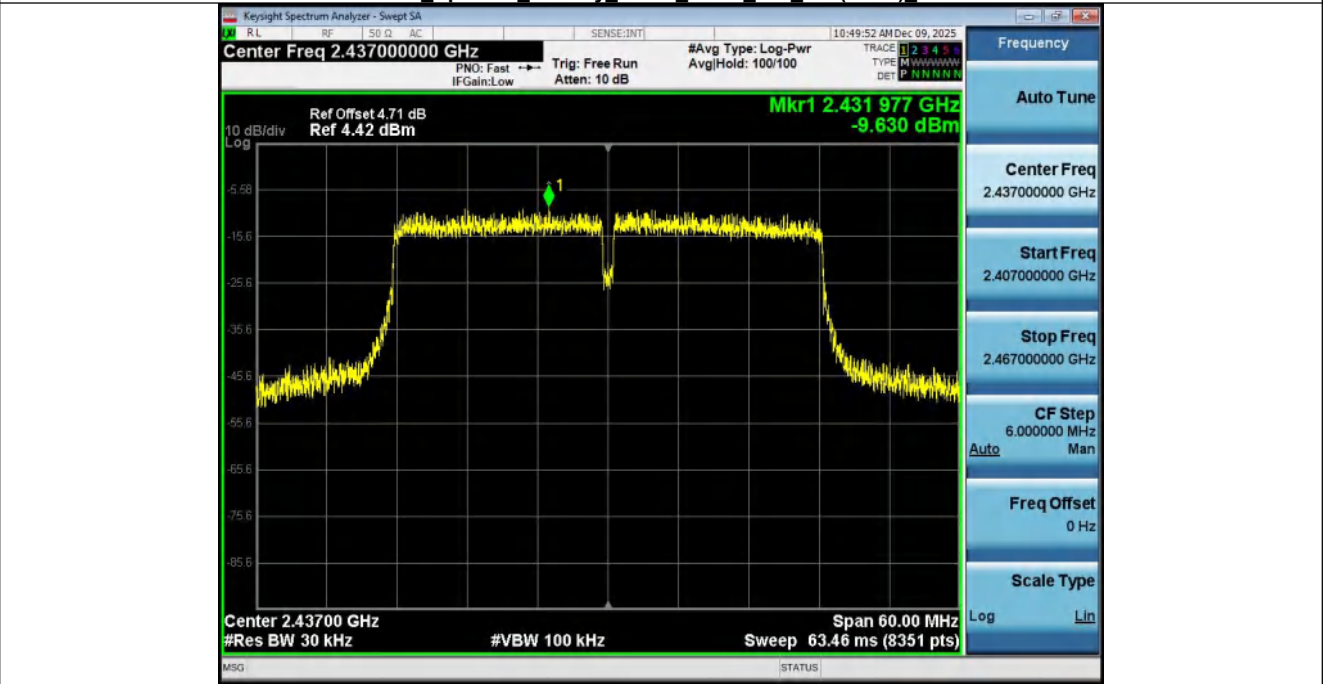
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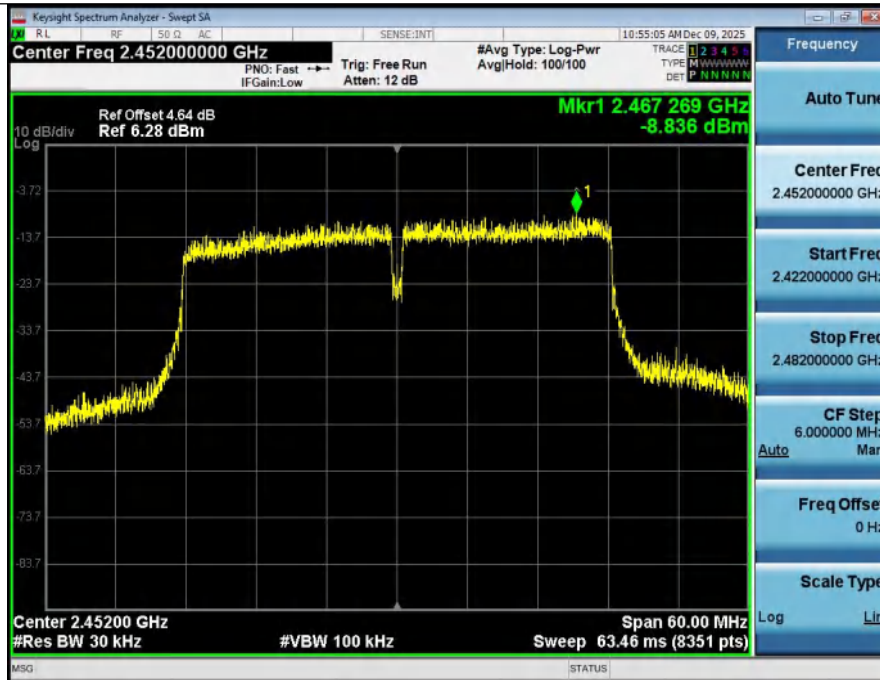
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2422



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_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.936	6.140	-36.621	-13.860	Pass
NVNT	ANT1	802.11b	2462.00	2485.888	6.659	-54.966	-13.341	Pass
NVNT	ANT1	802.11g	2412.00	2398.480	-0.882	-33.804	-20.882	Pass
NVNT	ANT1	802.11g	2462.00	2483.632	0.705	-40.975	-19.295	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2398.928	1.423	-28.049	-18.577	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.584	-0.352	-42.757	-20.352	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2398.572	-3.734	-34.084	-23.734	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.496	-4.069	-40.217	-24.069	Pass



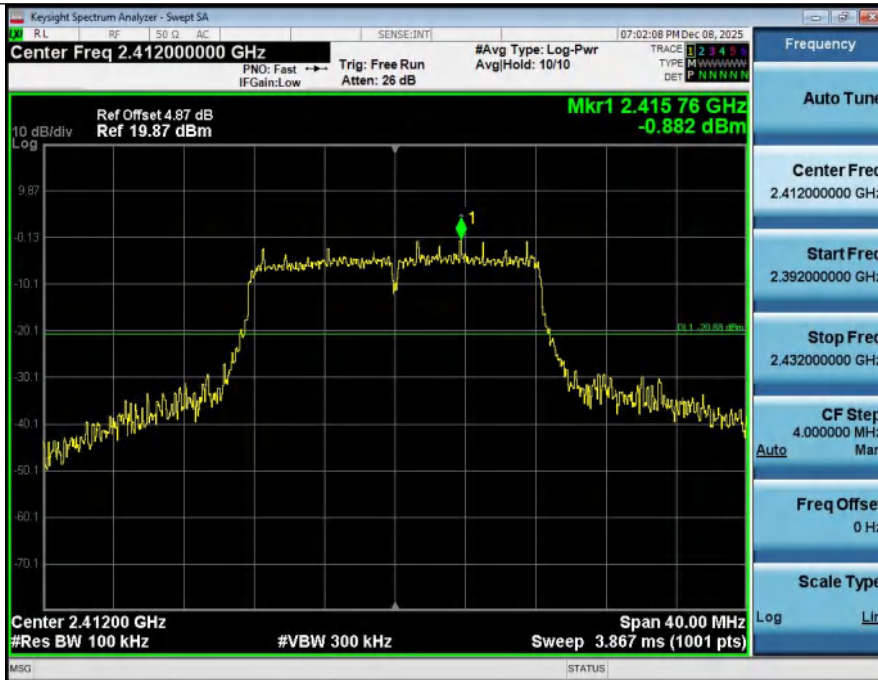
1 Reference_Level_NVNT_ANT1_802_11b_2462



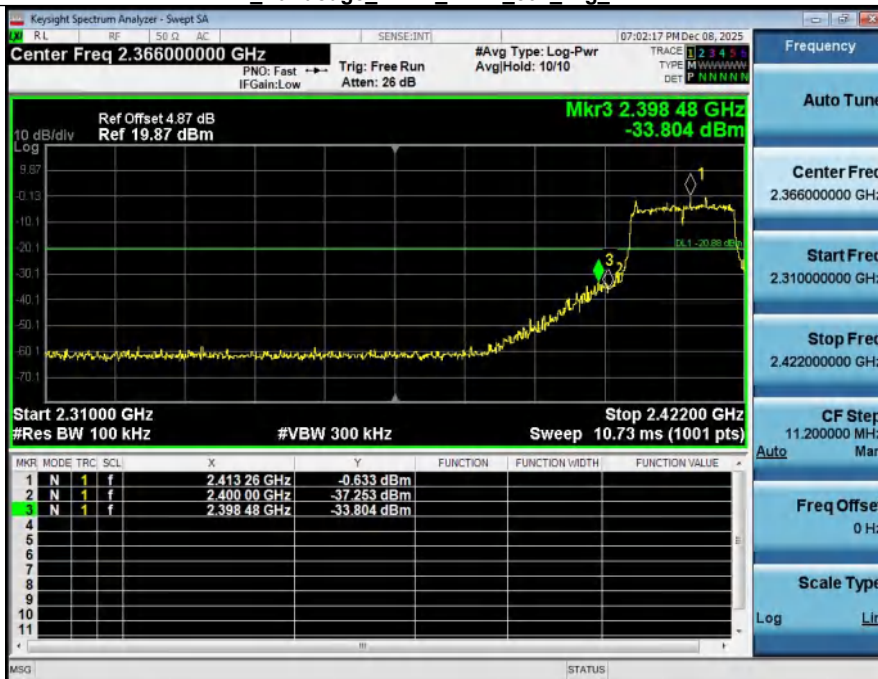
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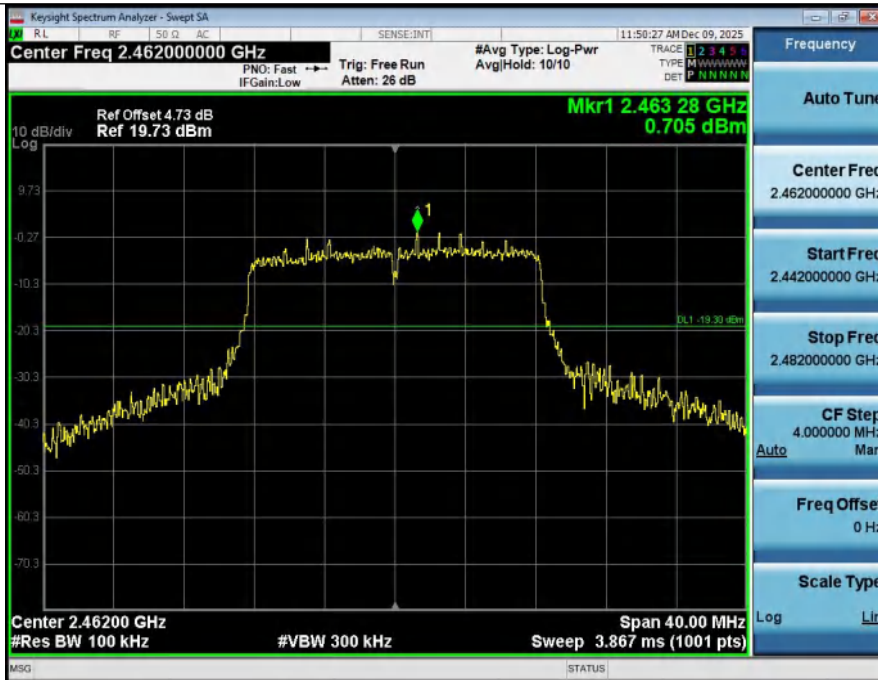
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2_Bandedge_NVNT_ANT1_802_11g_2412



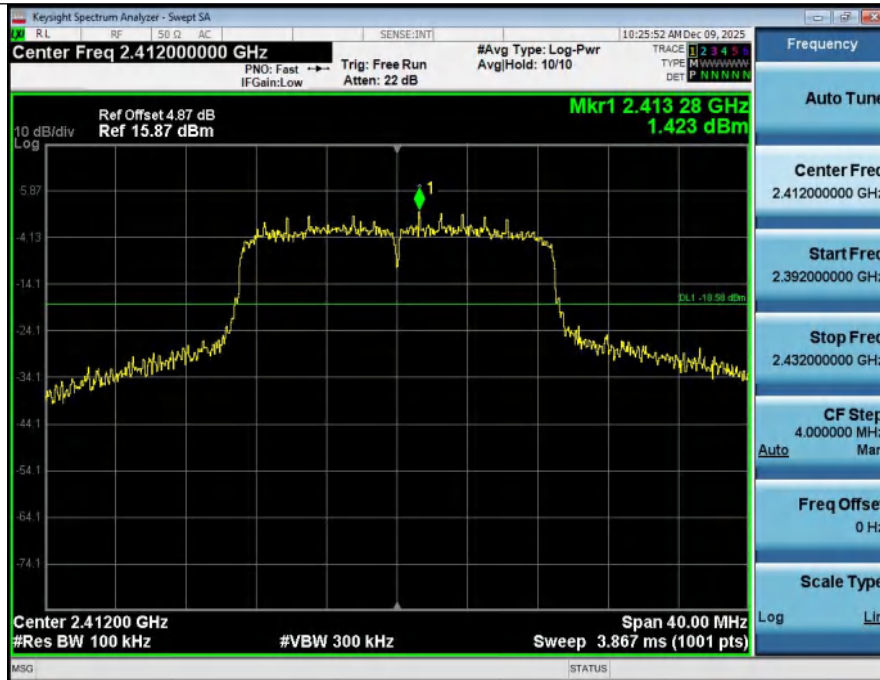
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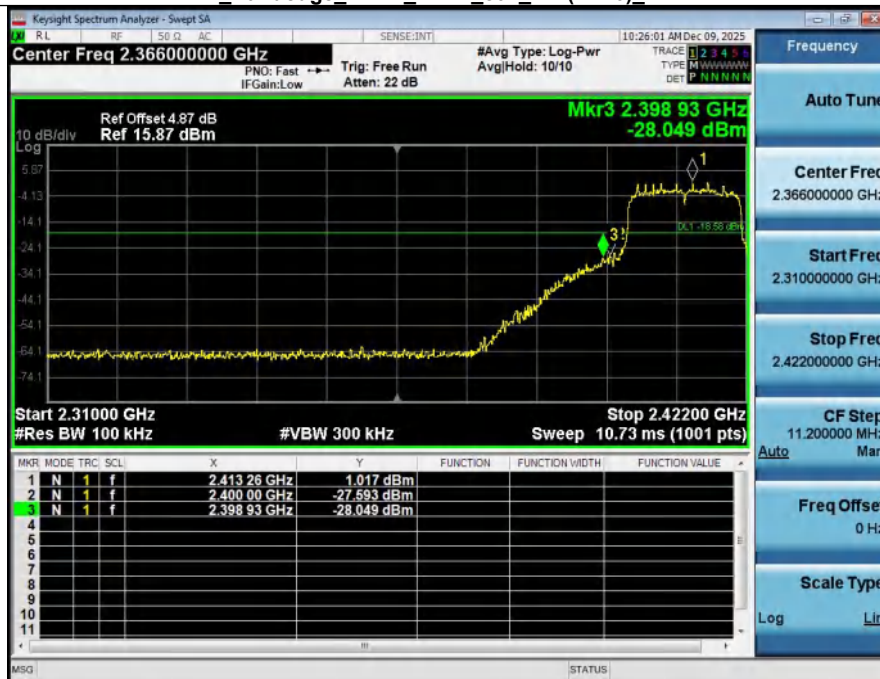
2_Bandedge_NVNT_ANT1_802_11g_2462



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



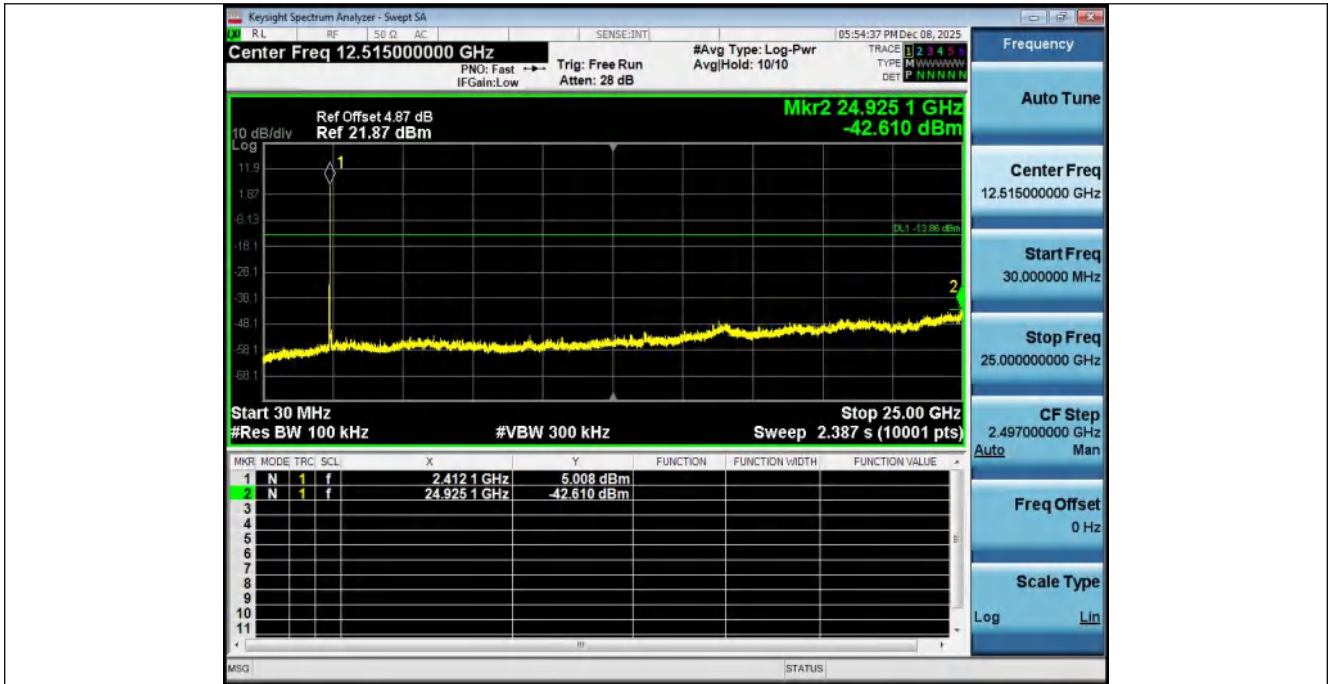
7. Spurious Emission

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	24925.090	6.140	-42.610	-13.860	Pass
NVNT	ANT1	802.11b	2437.00	24353.277	6.998	-42.150	-13.002	Pass
NVNT	ANT1	802.11b	2462.00	24877.647	6.659	-42.996	-13.341	Pass
NVNT	ANT1	802.11g	2412.00	24977.527	-0.882	-45.688	-20.882	Pass
NVNT	ANT1	802.11g	2437.00	24962.545	0.281	-42.519	-19.719	Pass
NVNT	ANT1	802.11g	2462.00	24940.072	0.705	-45.552	-19.295	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24937.575	1.423	-49.781	-18.577	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24962.545	-0.805	-44.051	-20.805	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24990.012	-0.352	-45.574	-20.352	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24443.169	-3.734	-49.003	-23.734	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	824.046	-4.906	-43.610	-24.906	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	24907.611	-4.069	-49.013	-24.069	Pass

1 Reference_Level_NVNT_ANT1_802_11b_2412



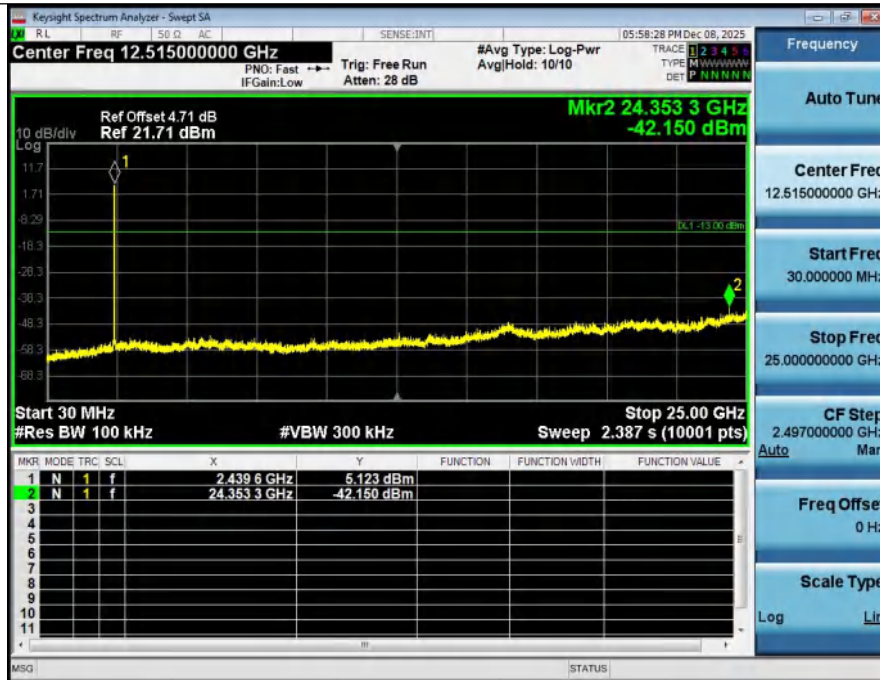
2 Spurious_Emission_NVNT_ANT1_802_11b_2412



1 Reference Level NVNT_ANT1_802_11b_2437



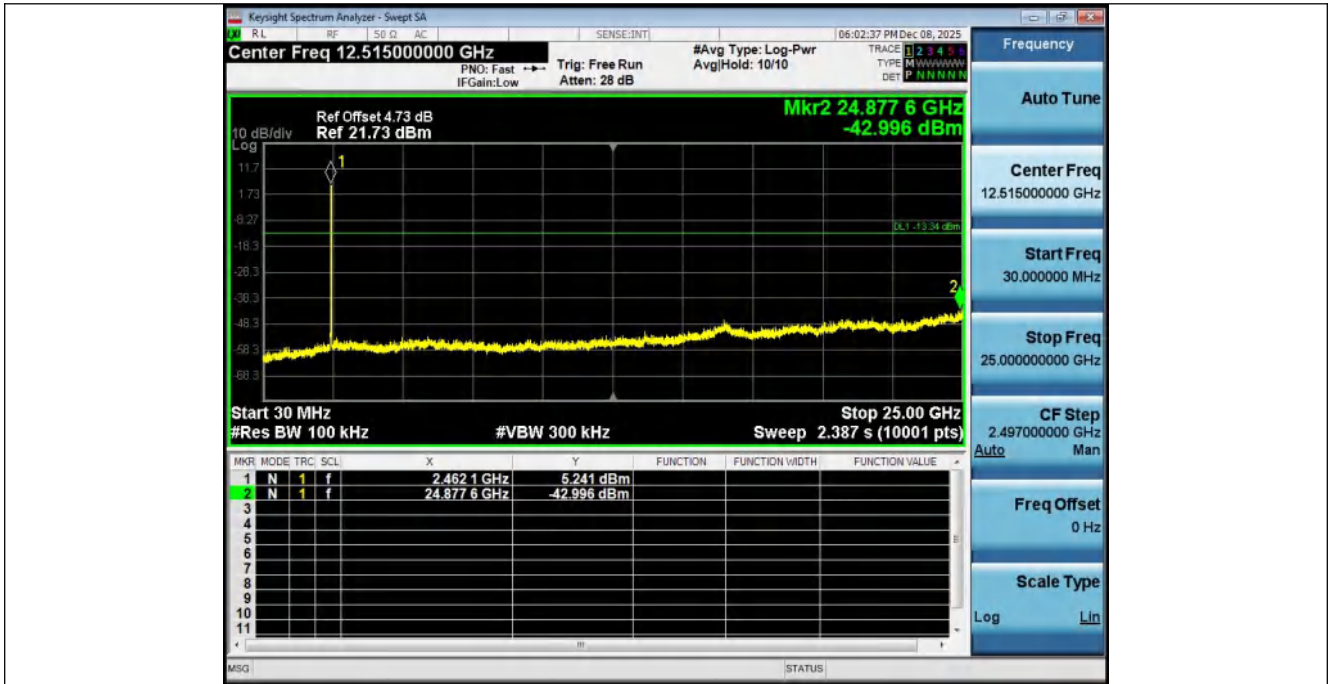
2 Spurious Emission NVNT_ANT1_802_11b_2437



1 Reference Level NVNT_ANT1_802_11b_2462



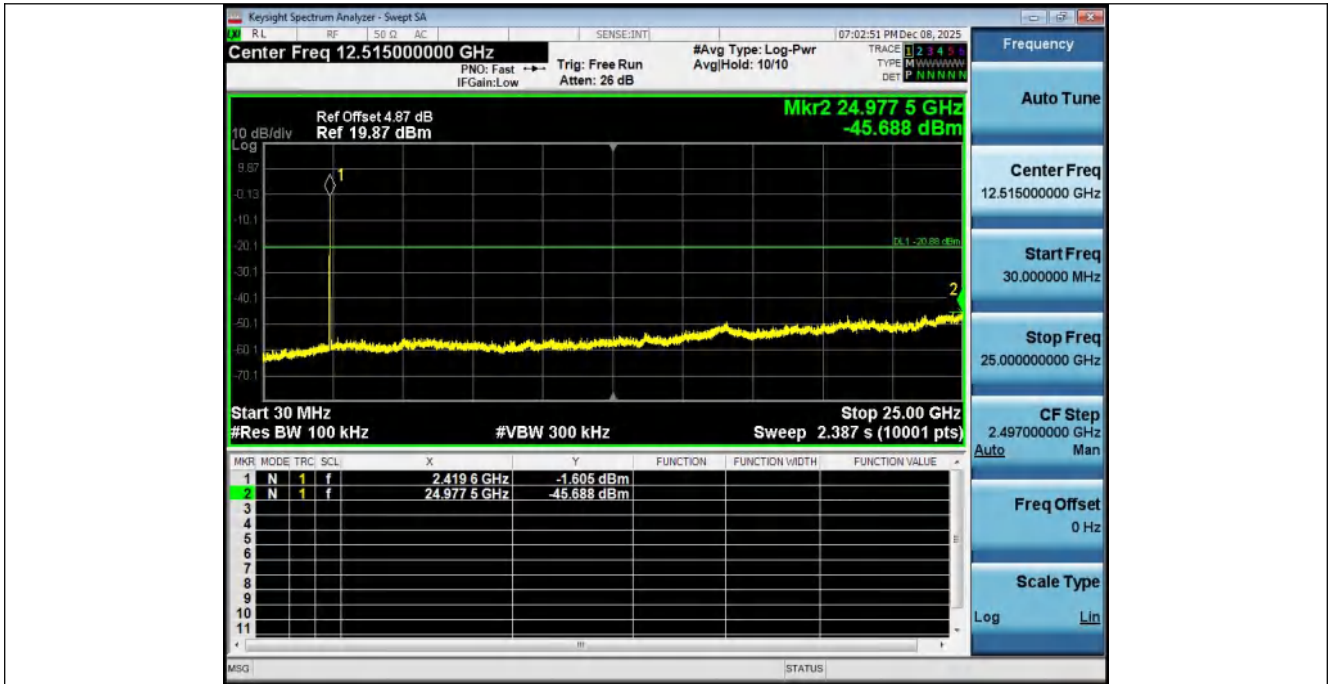
2 Spurious Emission NVNT_ANT1_802_11b_2462



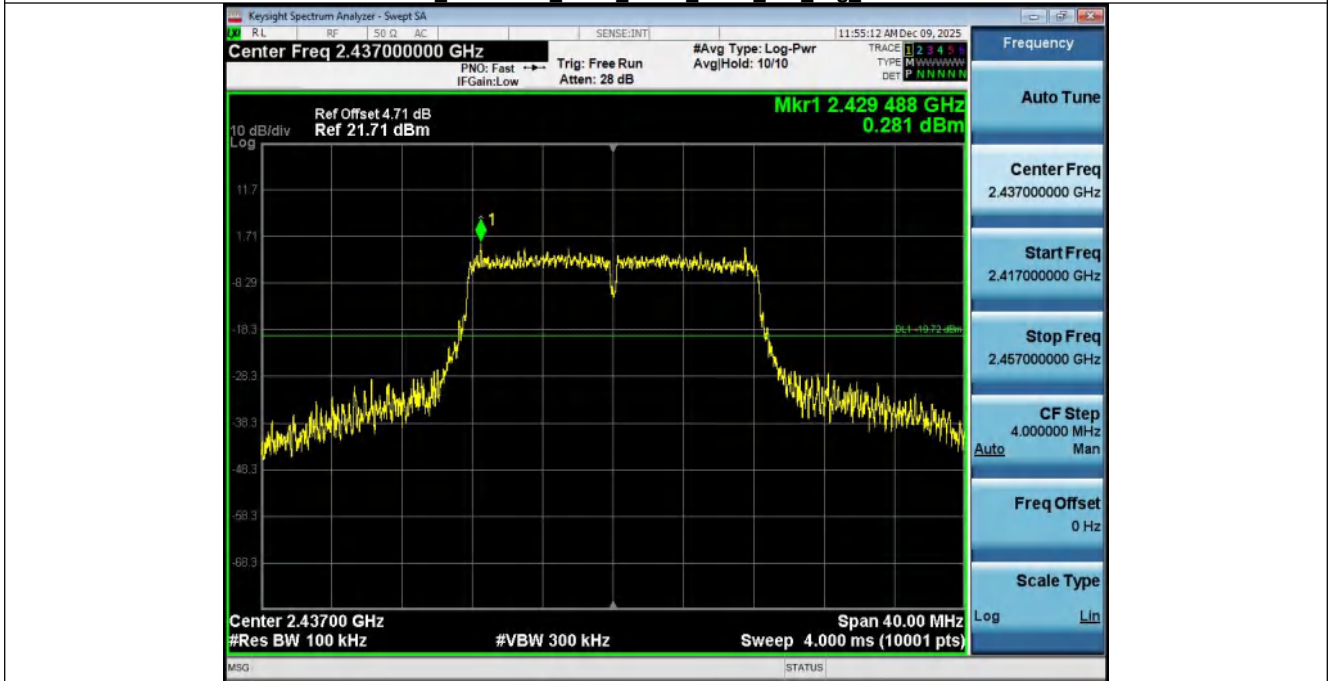
1 Reference Level NVNT_ANT1_802_11g_2412



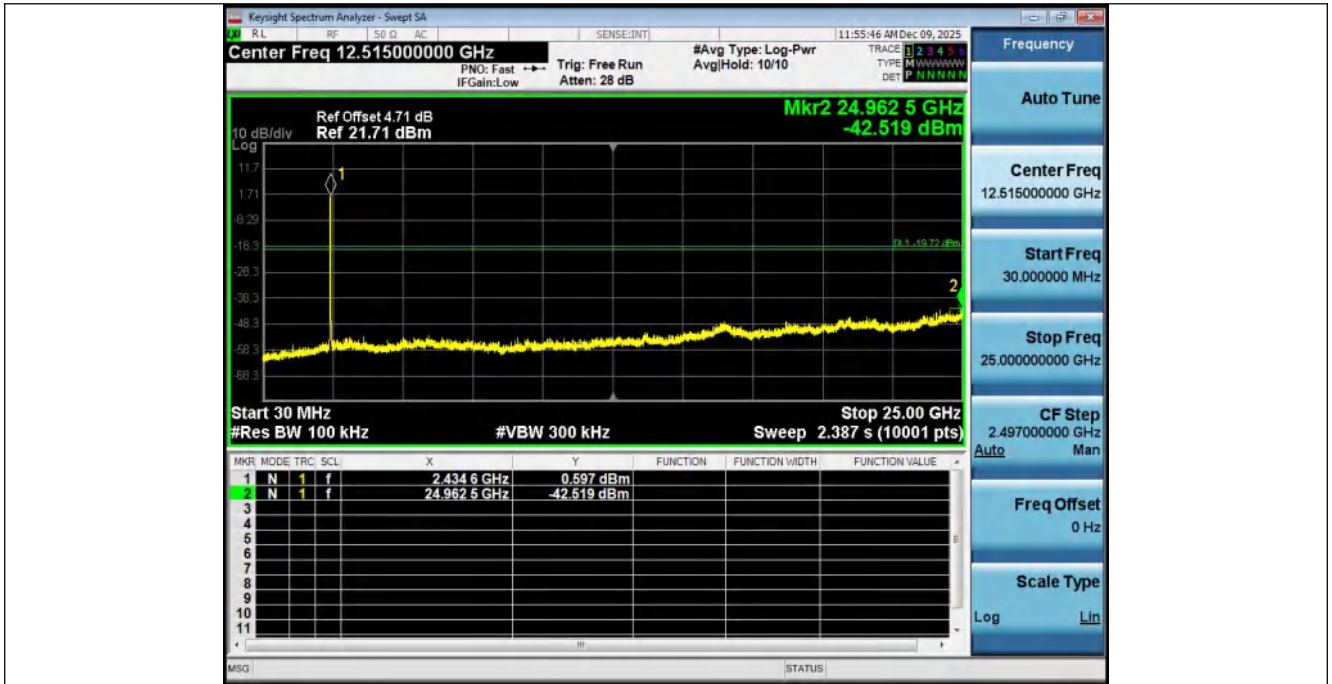
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1 Reference Level NVNT_ANT1_802_11g_2437



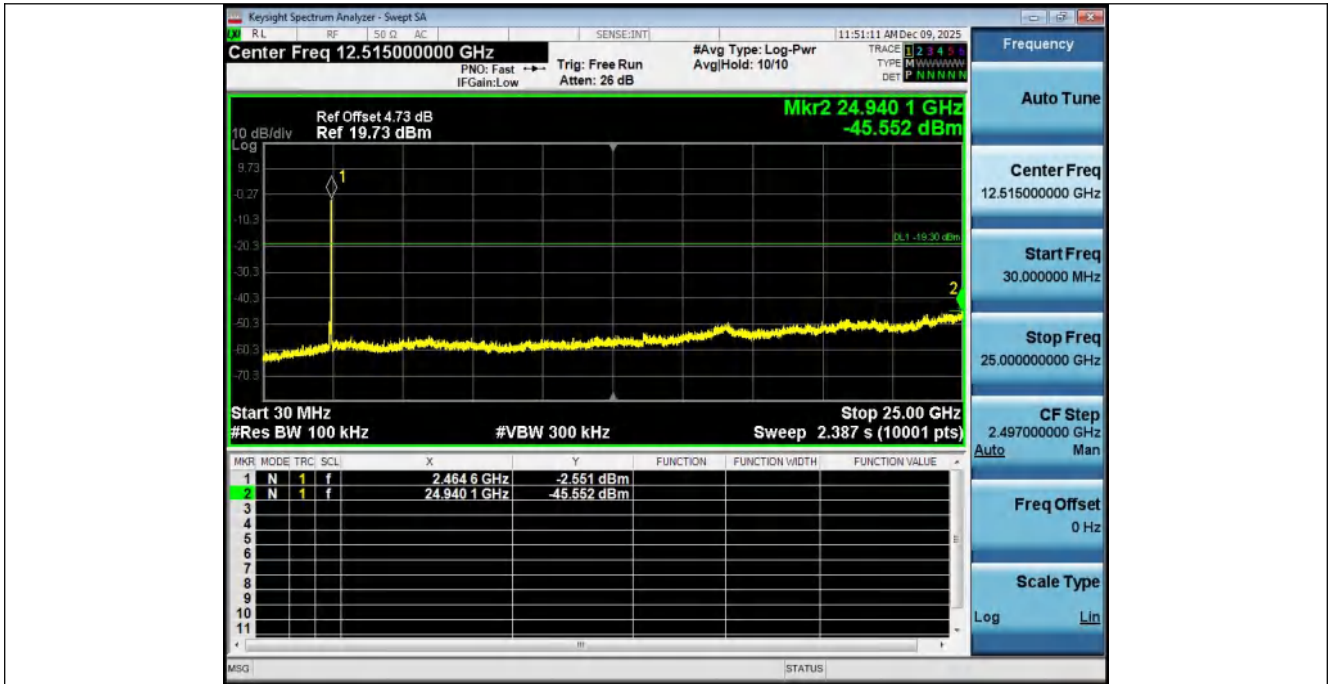
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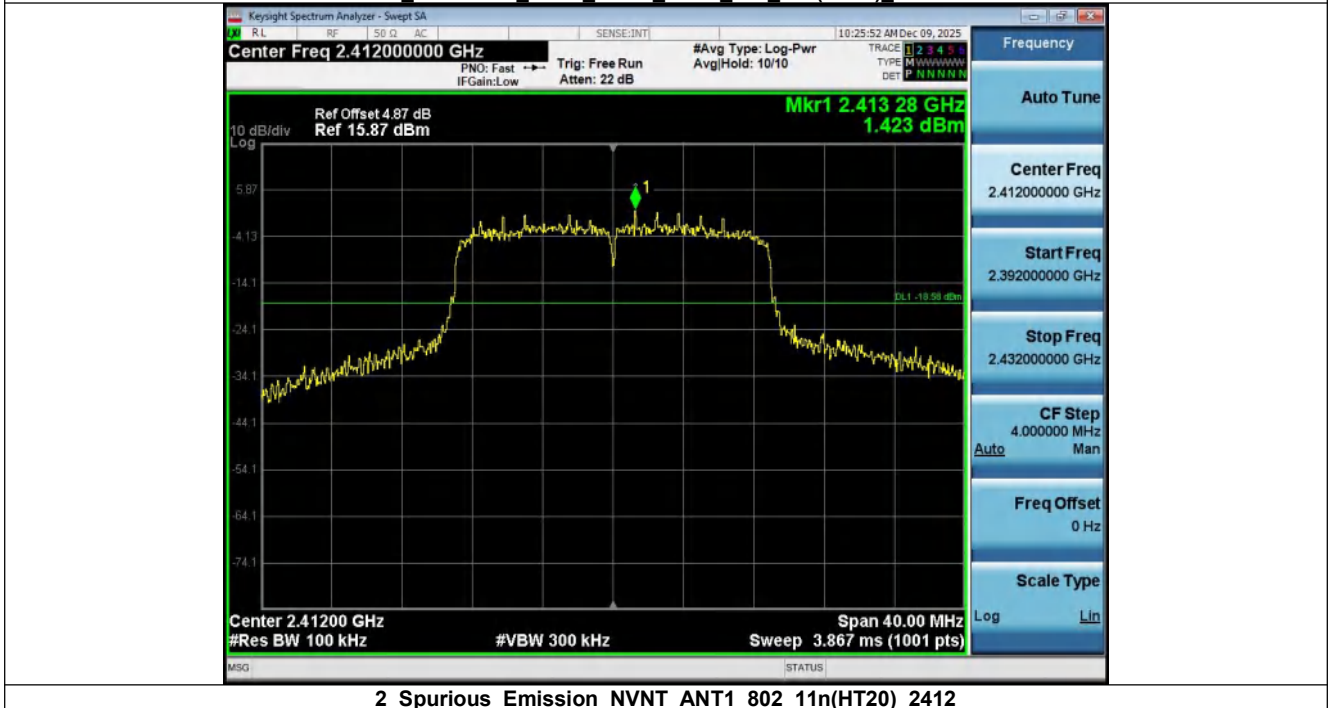
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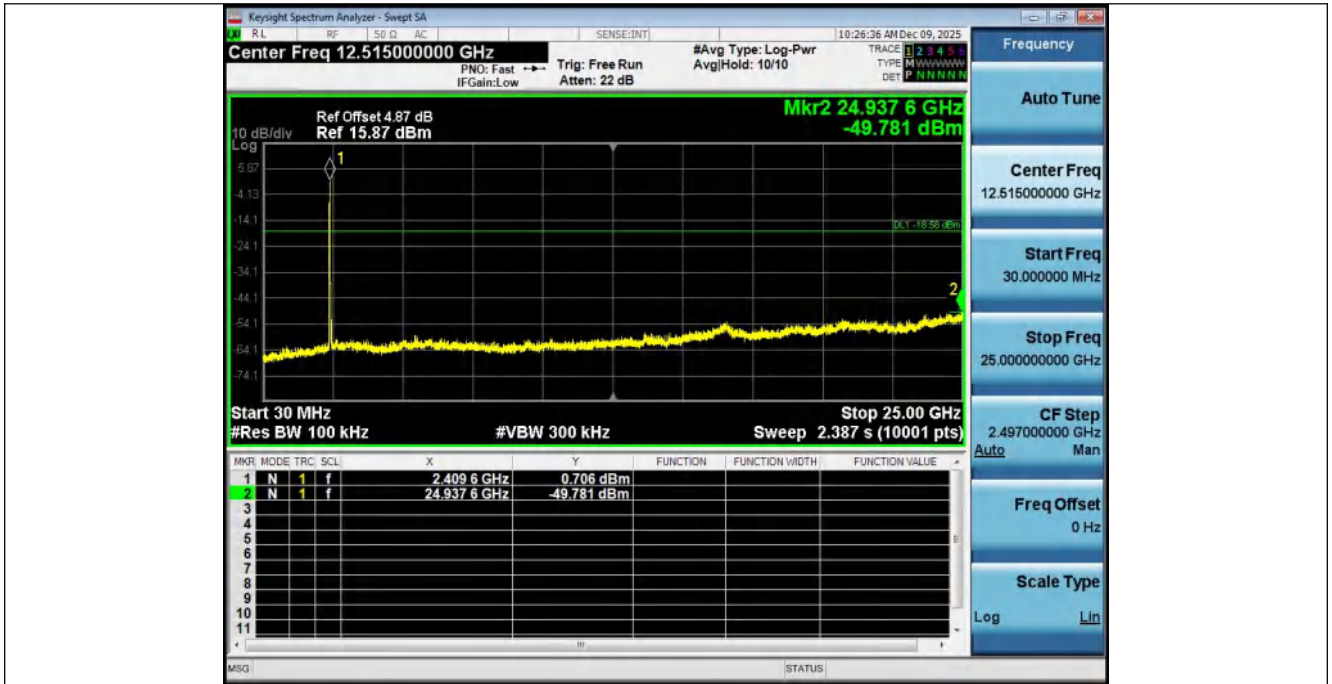
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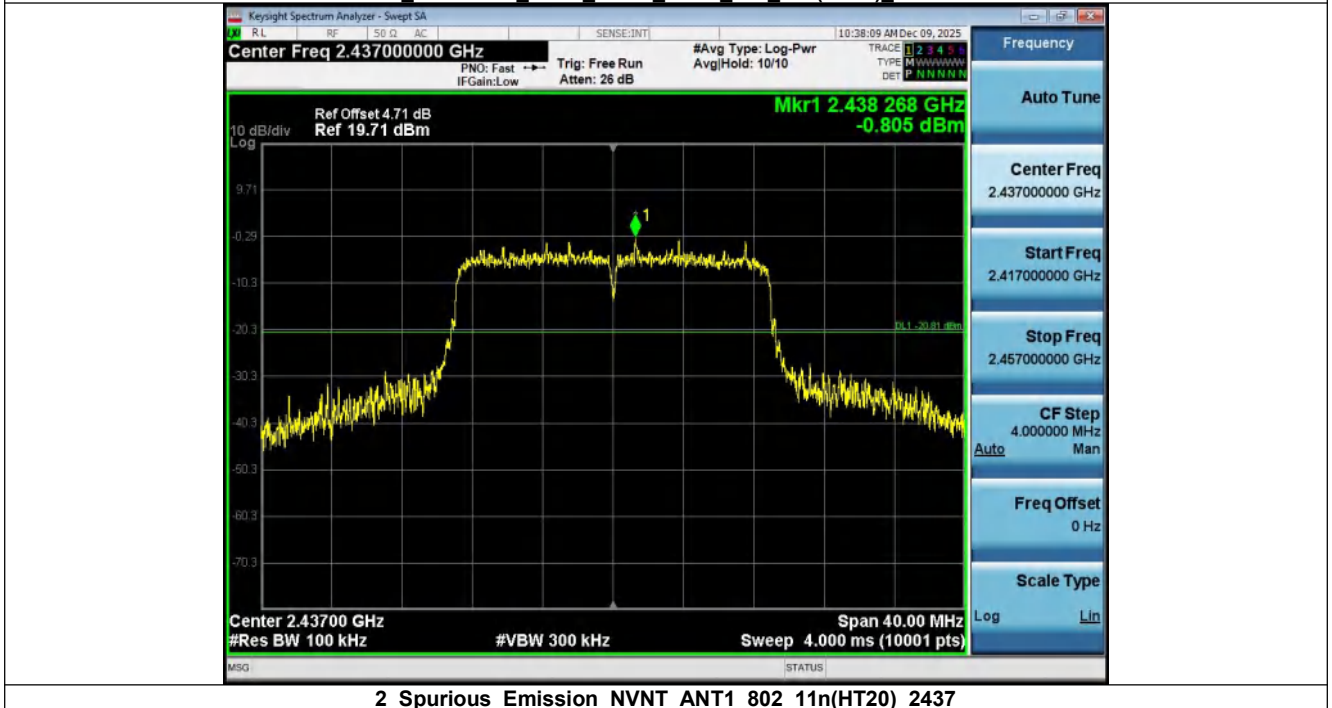
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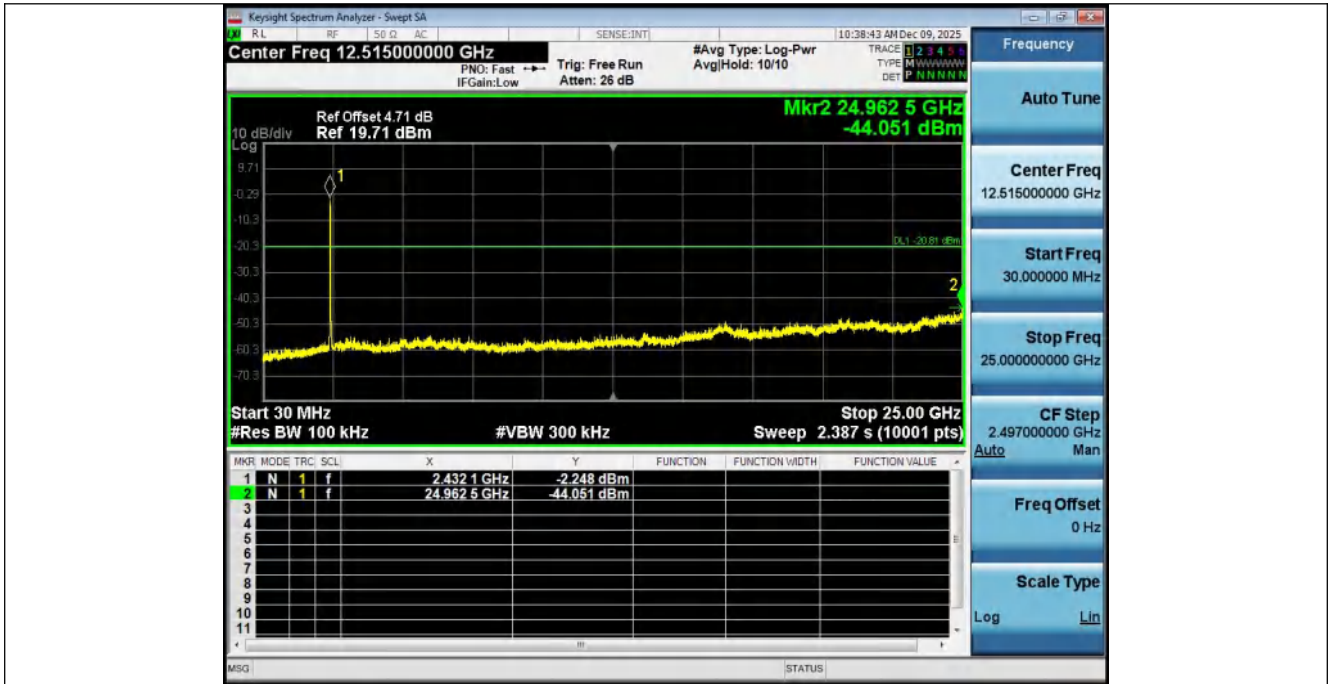
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1 Reference Level_NVNT_ANT1_802_11n(HT20)_2437



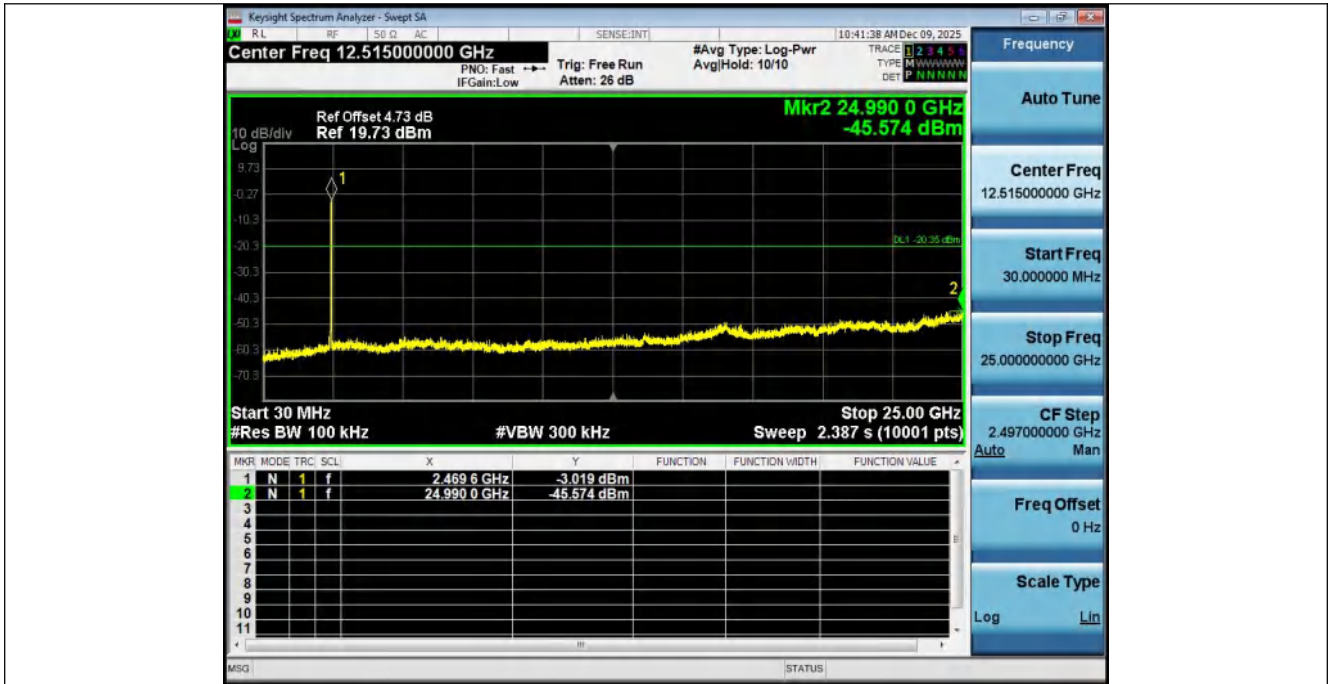
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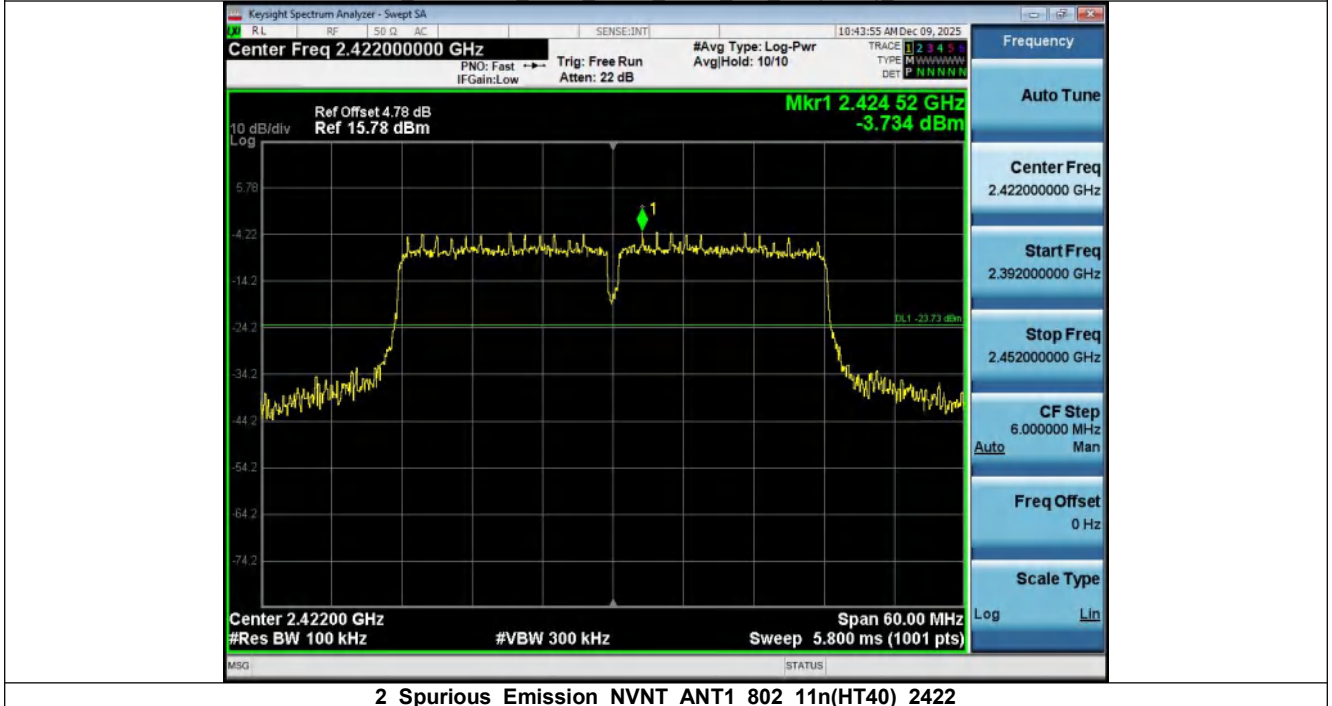
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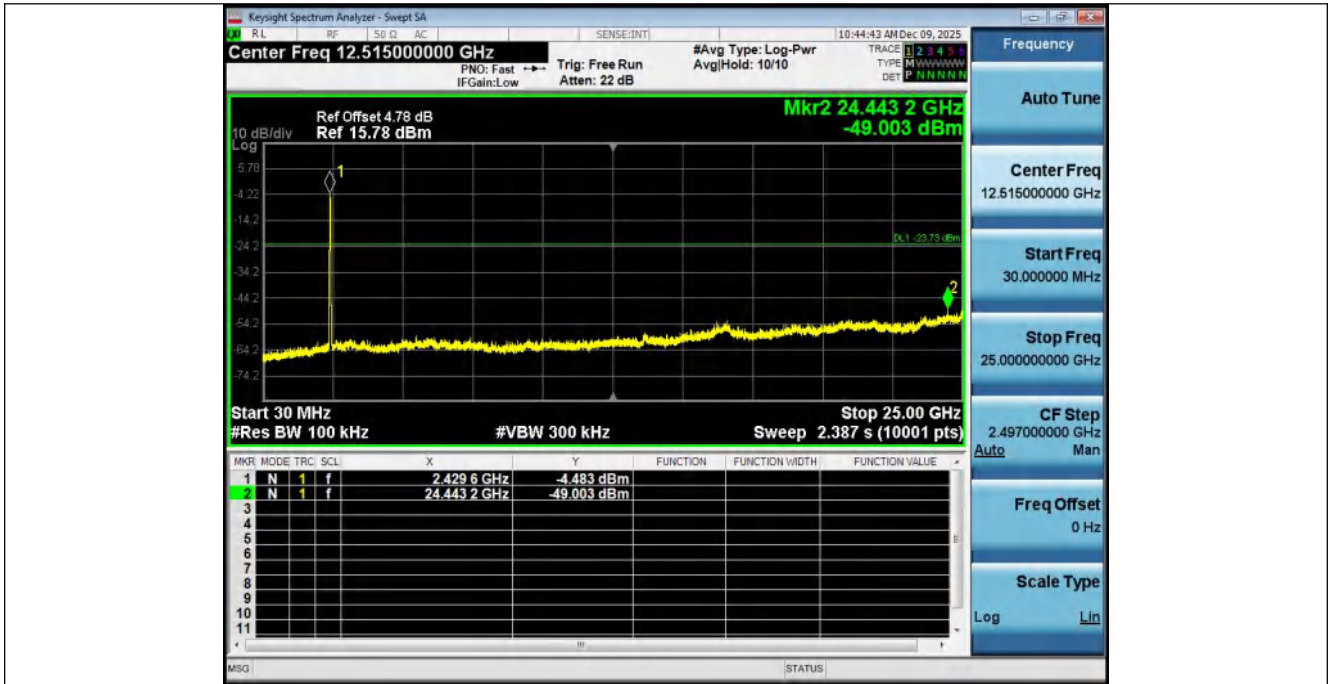
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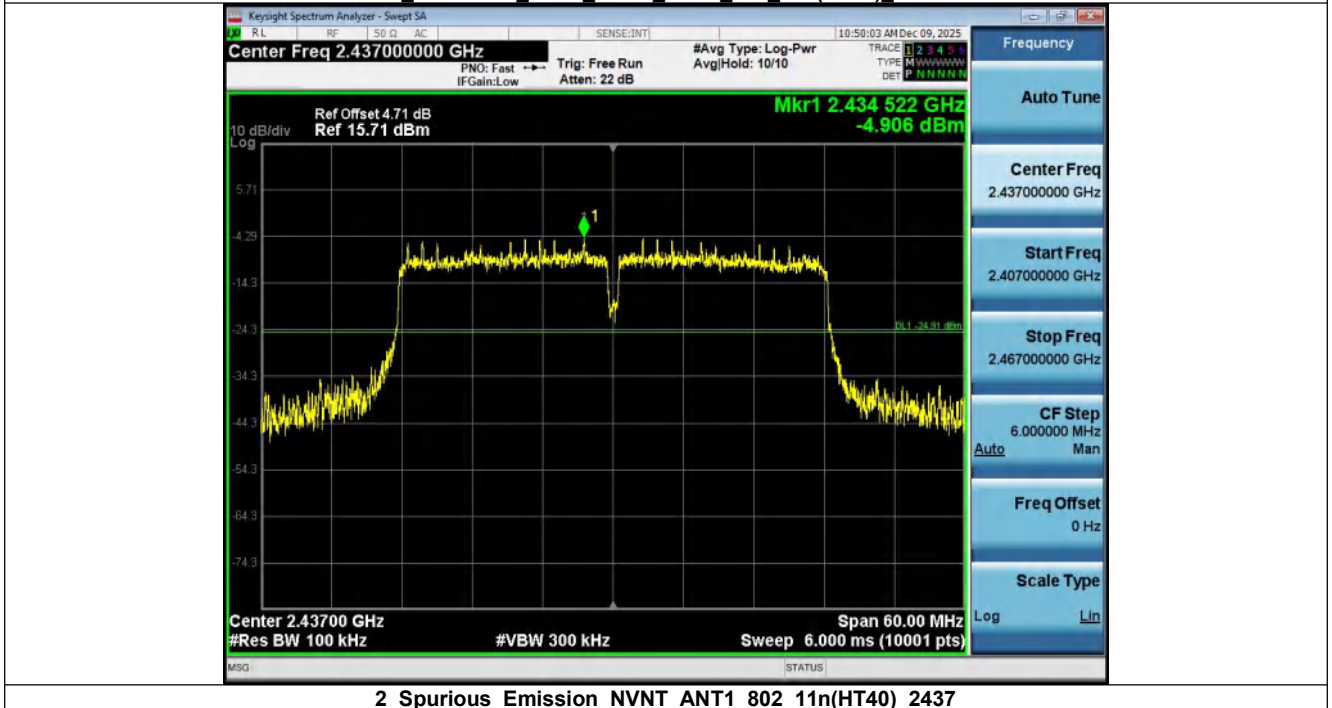
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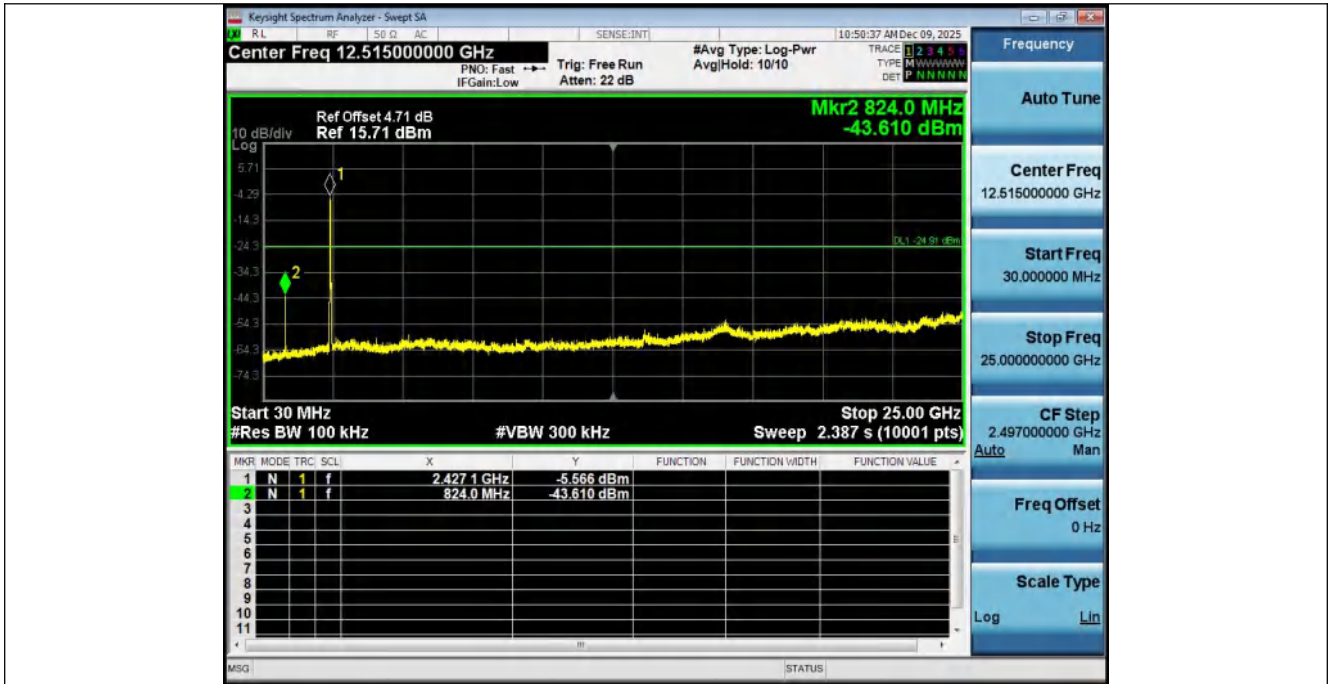
2 Spurious Emission_NVNT_ANT1_802_11n(HT40)_2422



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

