

NCT26024921 FCC ID WIFI 2.4
FCC_2.4G_WIFI (Part15.247) Test Data
FCC ID: 2BWOH-C9

Table of Contents

1. -6dB Bandwidth	2
2. 99% Occupied Bandwidth	7
3. Duty Cycle	12
4. MAX. Output Power	17
5. Power Spectral Density	18
6. Bandedge	23
7. Spurious Emission	29

1. -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.16	500	Pass
NVNT	ANT1	802.11b	2437.00	9.18	500	Pass
NVNT	ANT1	802.11b	2462.00	9.61	500	Pass
NVNT	ANT1	802.11g	2412.00	16.17	500	Pass
NVNT	ANT1	802.11g	2437.00	16.40	500	Pass
NVNT	ANT1	802.11g	2462.00	16.39	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.35	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.40	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.32	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

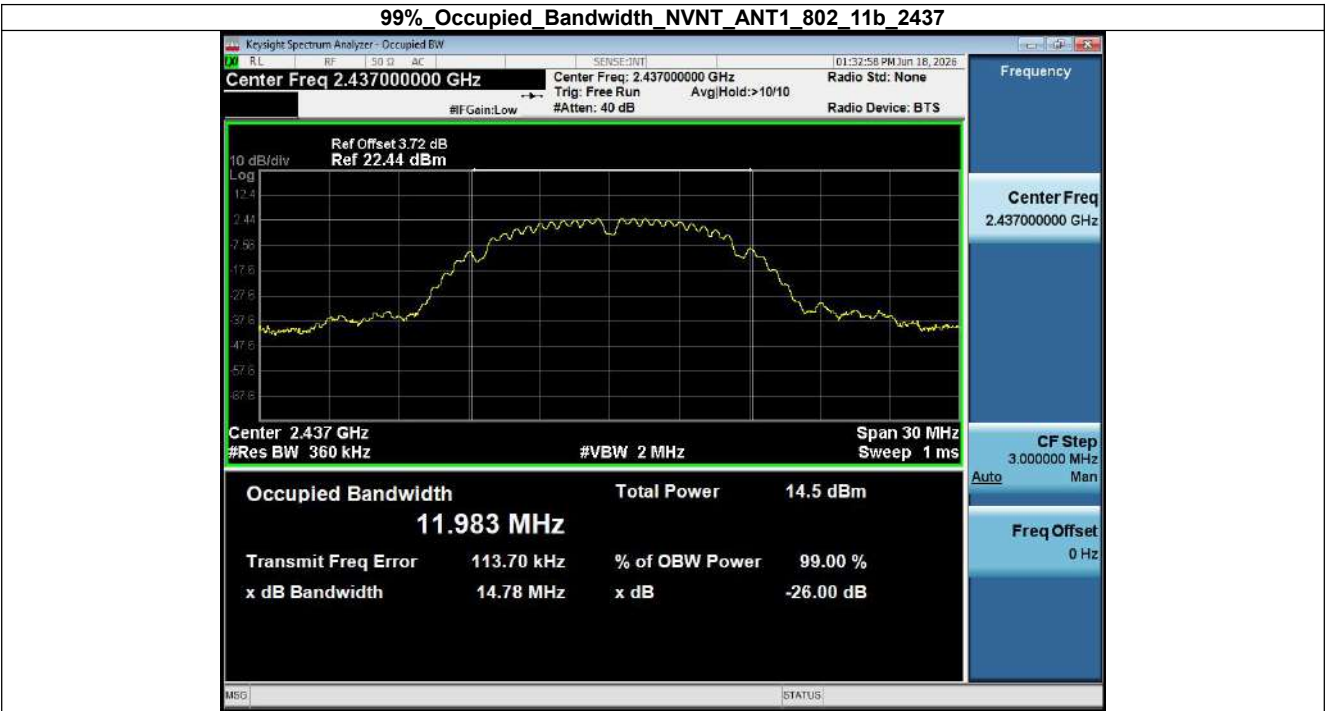
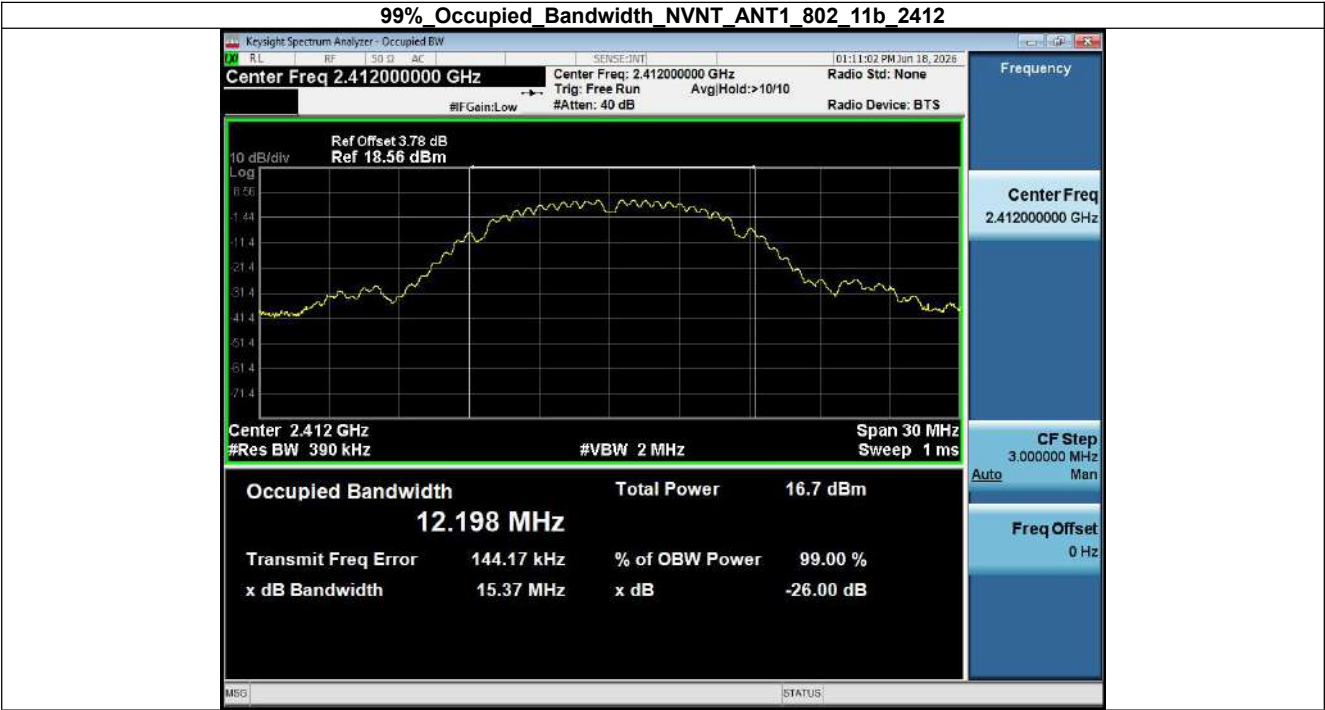


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	12.198
NVNT	ANT1	802.11b	2437.00	11.983
NVNT	ANT1	802.11b	2462.00	12.503
NVNT	ANT1	802.11g	2412.00	18.169
NVNT	ANT1	802.11g	2437.00	17.386
NVNT	ANT1	802.11g	2462.00	18.862
NVNT	ANT1	802.11n(HT20)	2412.00	18.180
NVNT	ANT1	802.11n(HT20)	2437.00	17.867
NVNT	ANT1	802.11n(HT20)	2462.00	18.765



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

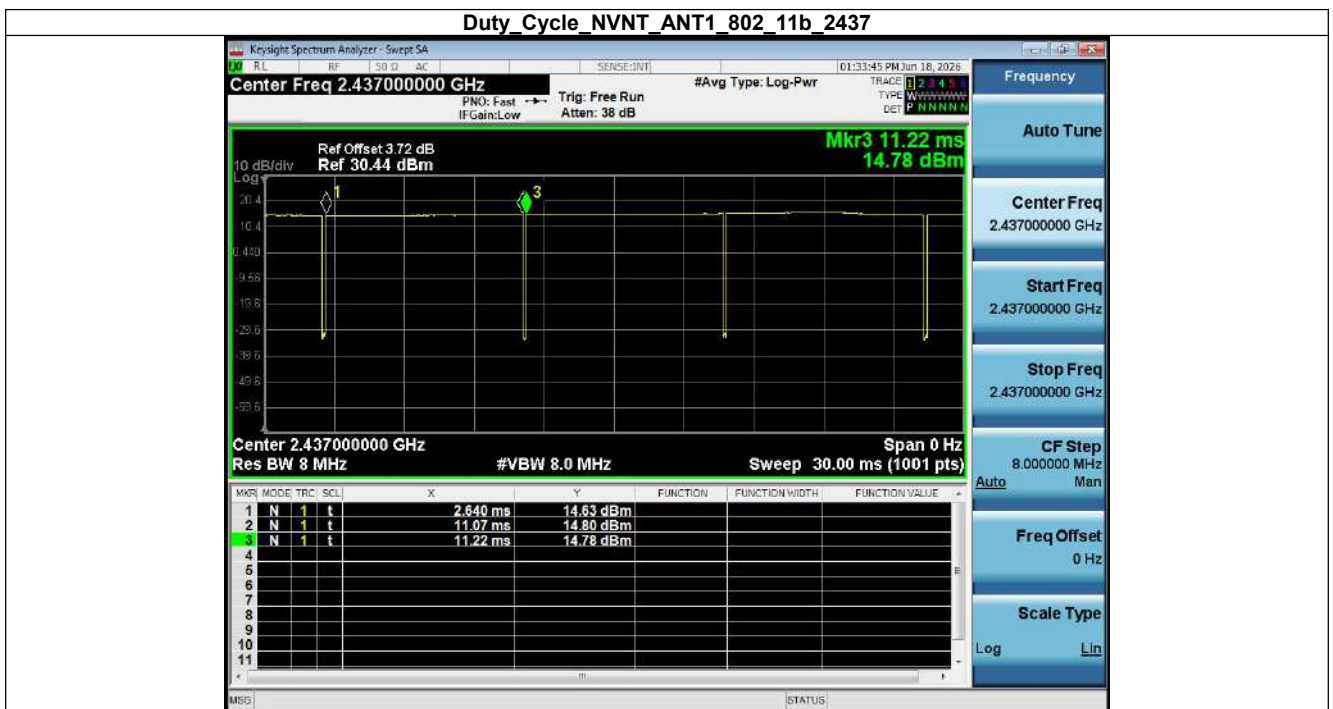
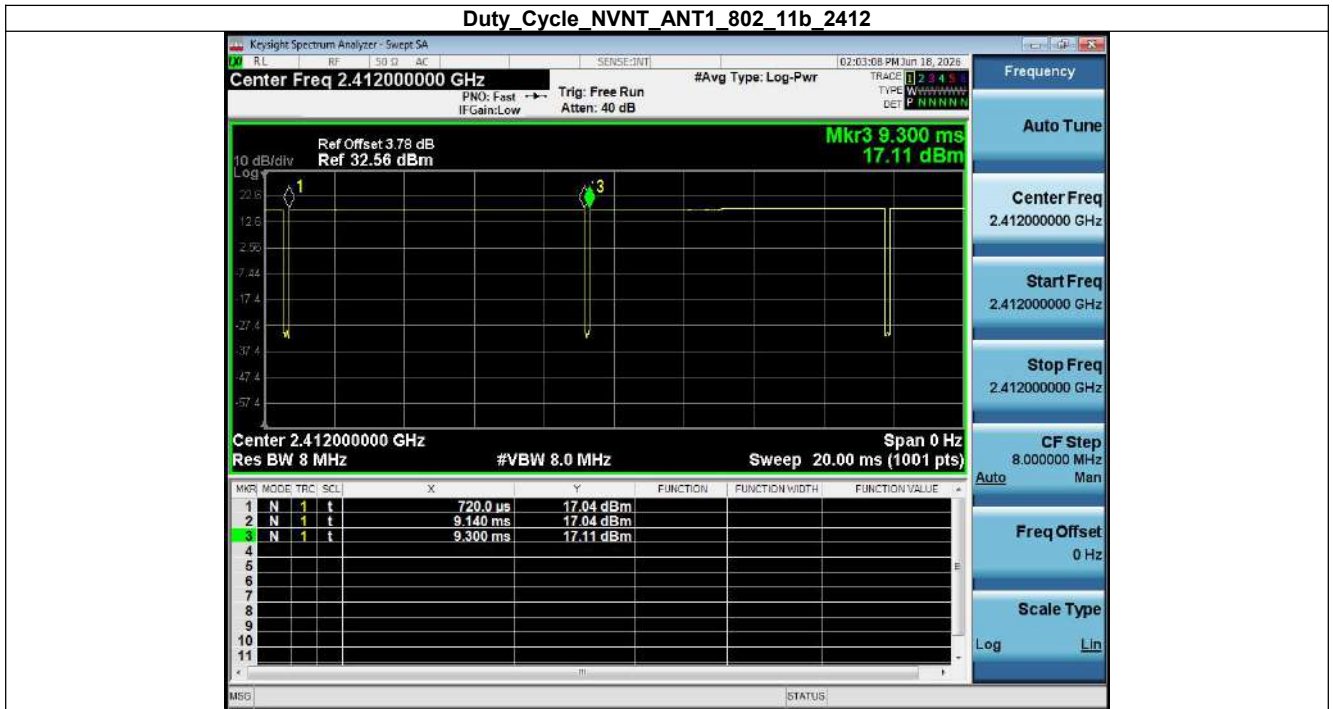


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



3. Duty Cycle

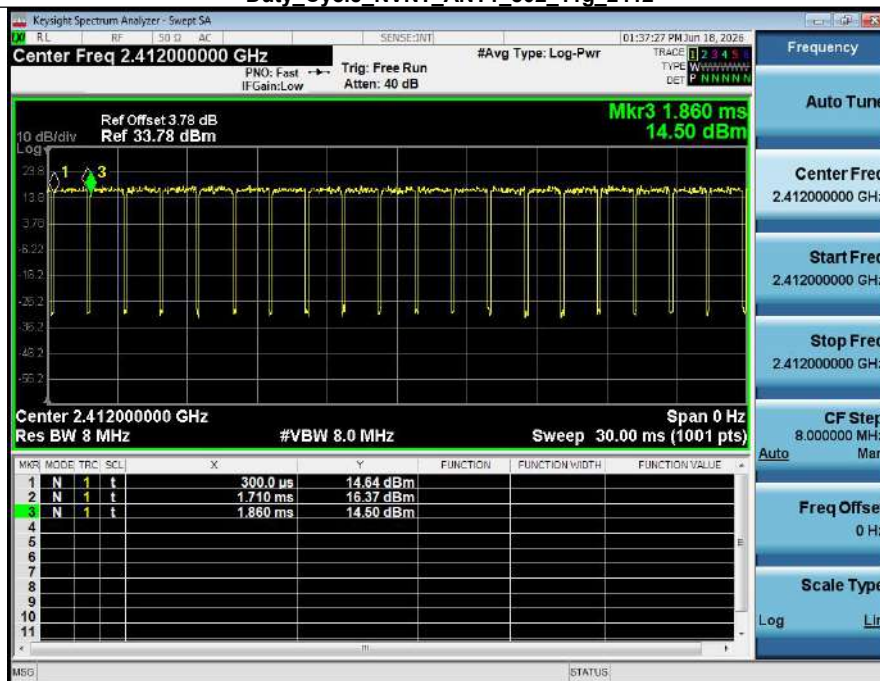
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	98.37	0.00
NVNT	ANT1	802.11b	2437.00	98.60	0.00
NVNT	ANT1	802.11b	2462.00	98.26	0.00
NVNT	ANT1	802.11g	2412.00	92.31	0.35
NVNT	ANT1	802.11g	2437.00	92.31	0.35
NVNT	ANT1	802.11g	2462.00	90.20	0.45
NVNT	ANT1	802.11n(HT20)	2412.00	89.55	0.48
NVNT	ANT1	802.11n(HT20)	2437.00	89.55	0.48
NVNT	ANT1	802.11n(HT20)	2462.00	89.55	0.48



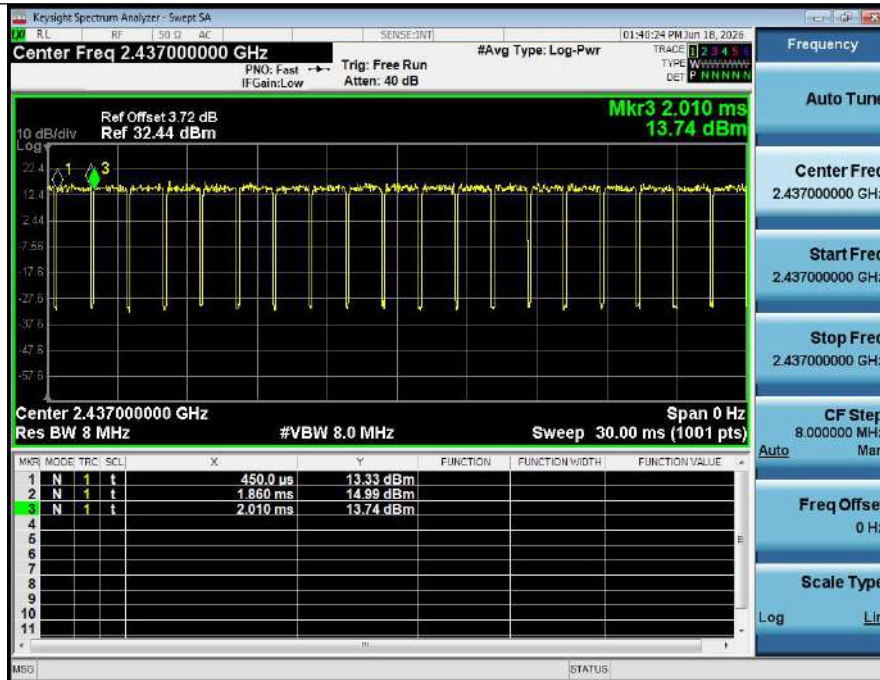
Duty Cycle NVNT_ANT1_802_11b_2462



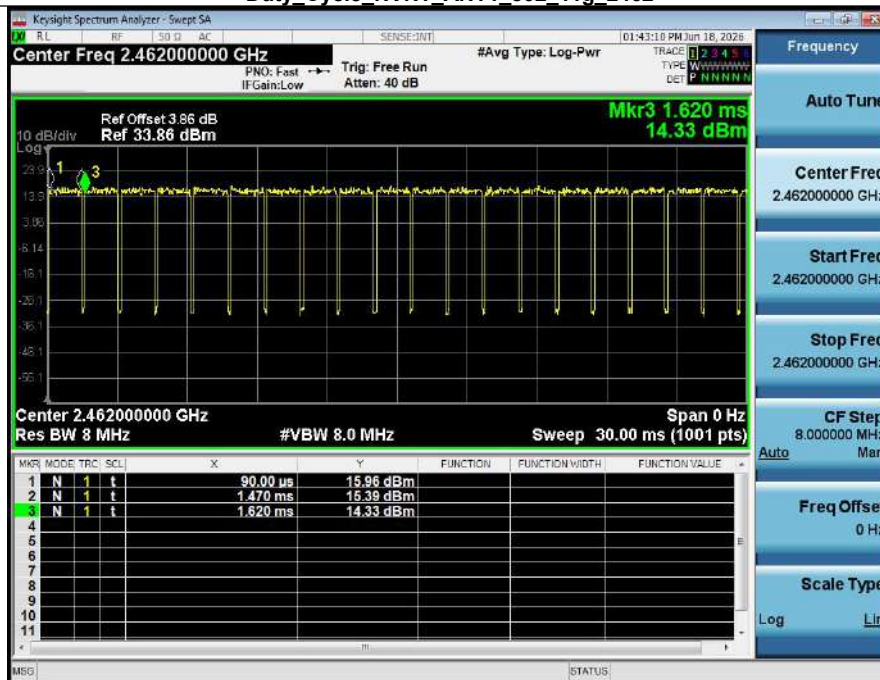
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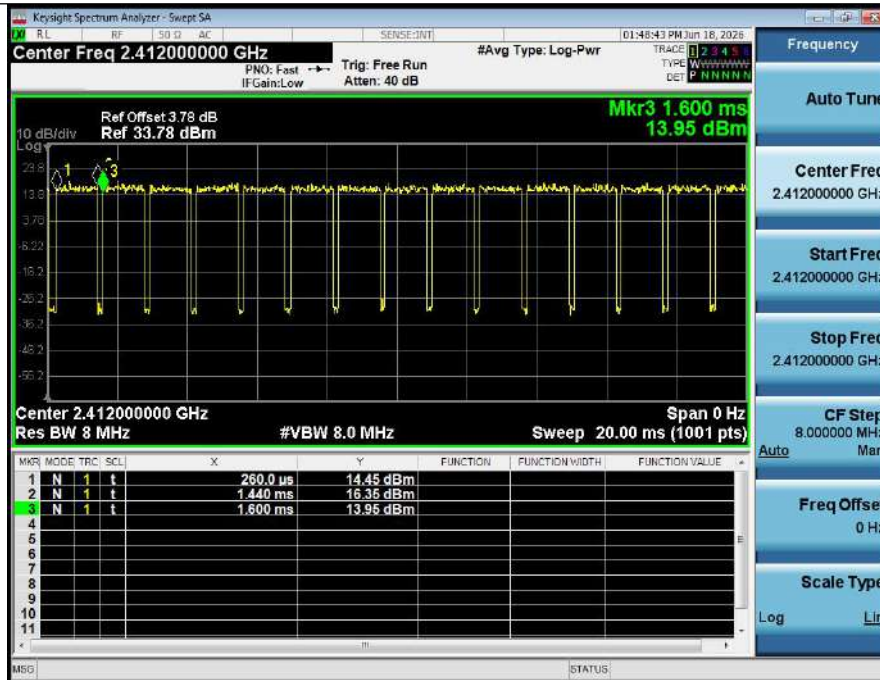
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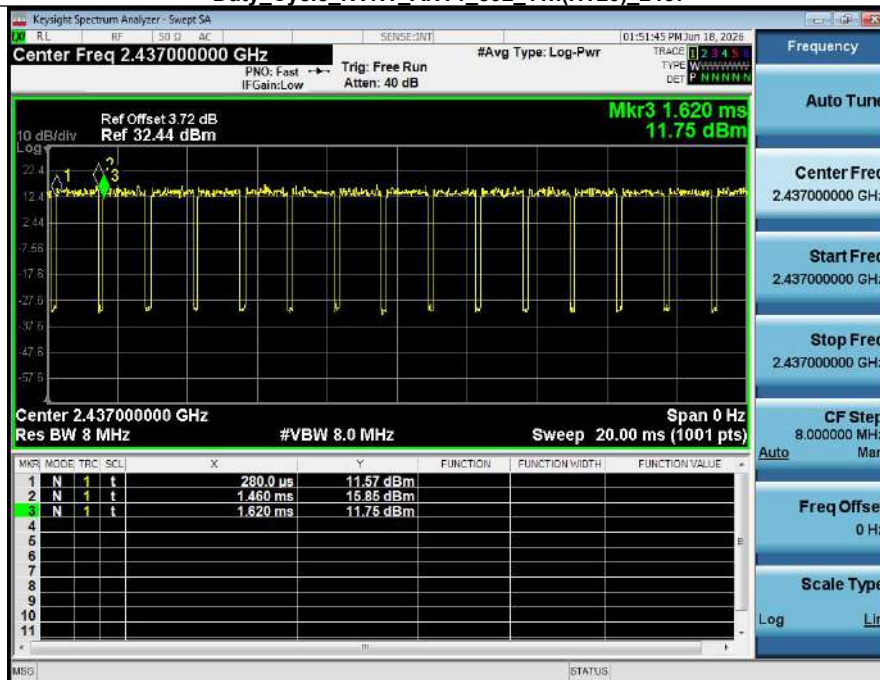
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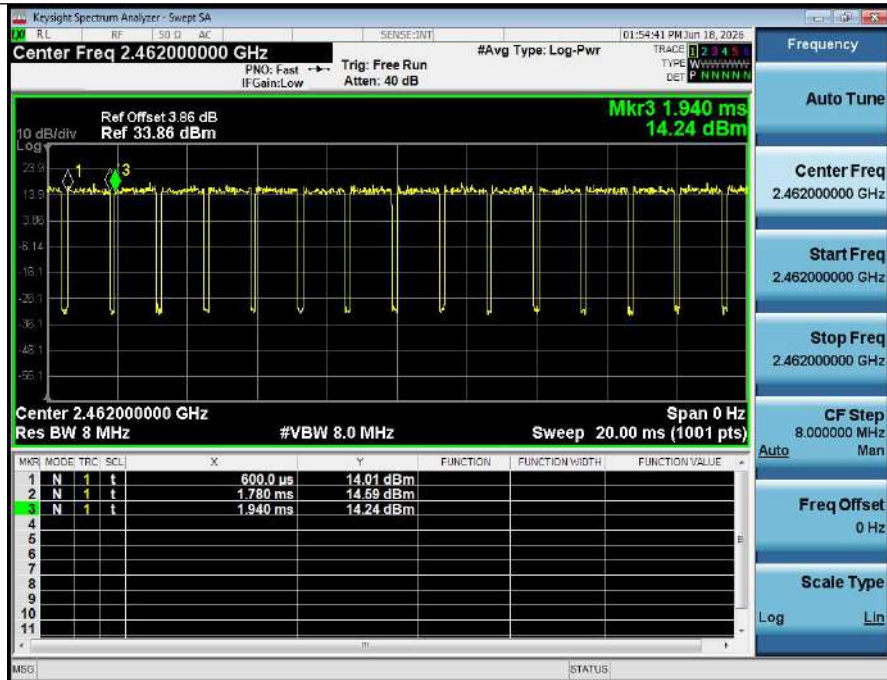
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462



4. MAX. Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	7.91	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	7.90	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	7.21	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	8.56	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	9.35	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	8.74	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	8.10	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	8.84	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	7.16	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	1.02	8	Pass
NVNT	ANT1	802.11b	2437.00	-1.32	8	Pass
NVNT	ANT1	802.11b	2462.00	0.53	8	Pass
NVNT	ANT1	802.11g	2412.00	-1.71	8	Pass
NVNT	ANT1	802.11g	2437.00	-4.10	8	Pass
NVNT	ANT1	802.11g	2462.00	-2.38	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-3.04	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-5.18	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-3.67	8	Pass



Power_Spectral_Density_NVNT_ANT1_802_11b_2437



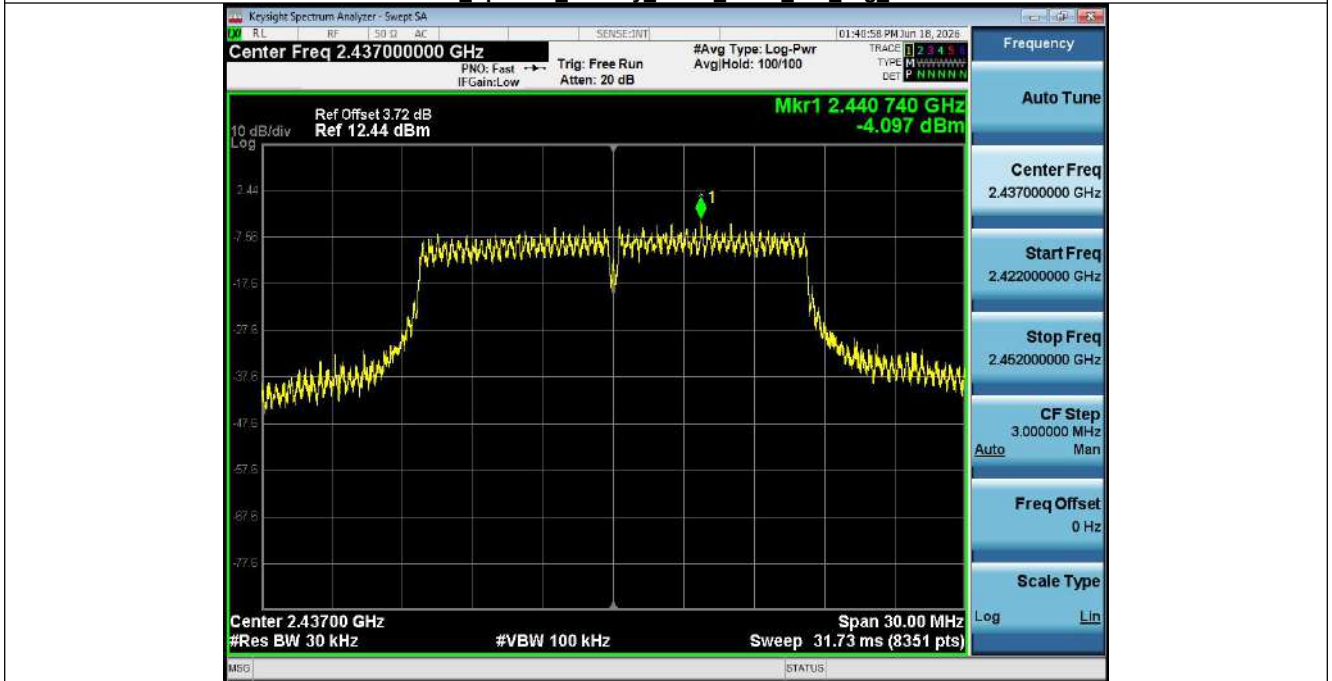
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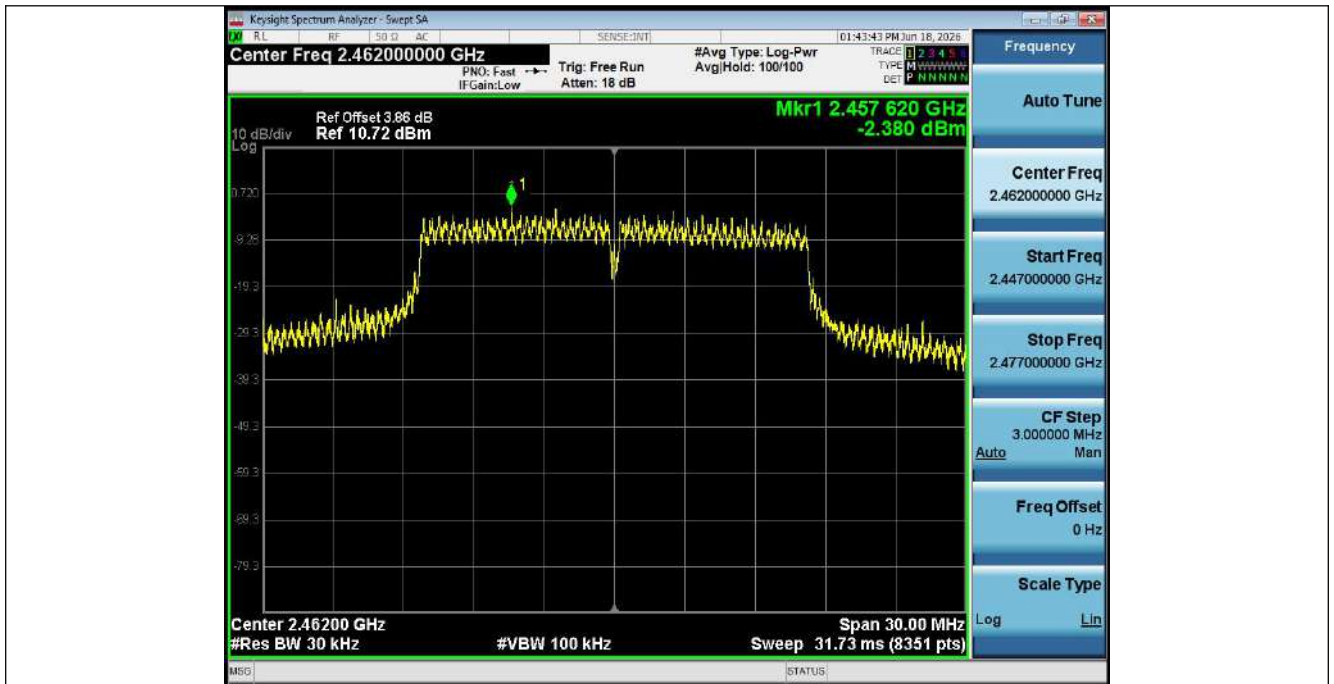
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Power_Spectral_Density_NVNT_ANT1_802_11g_2437



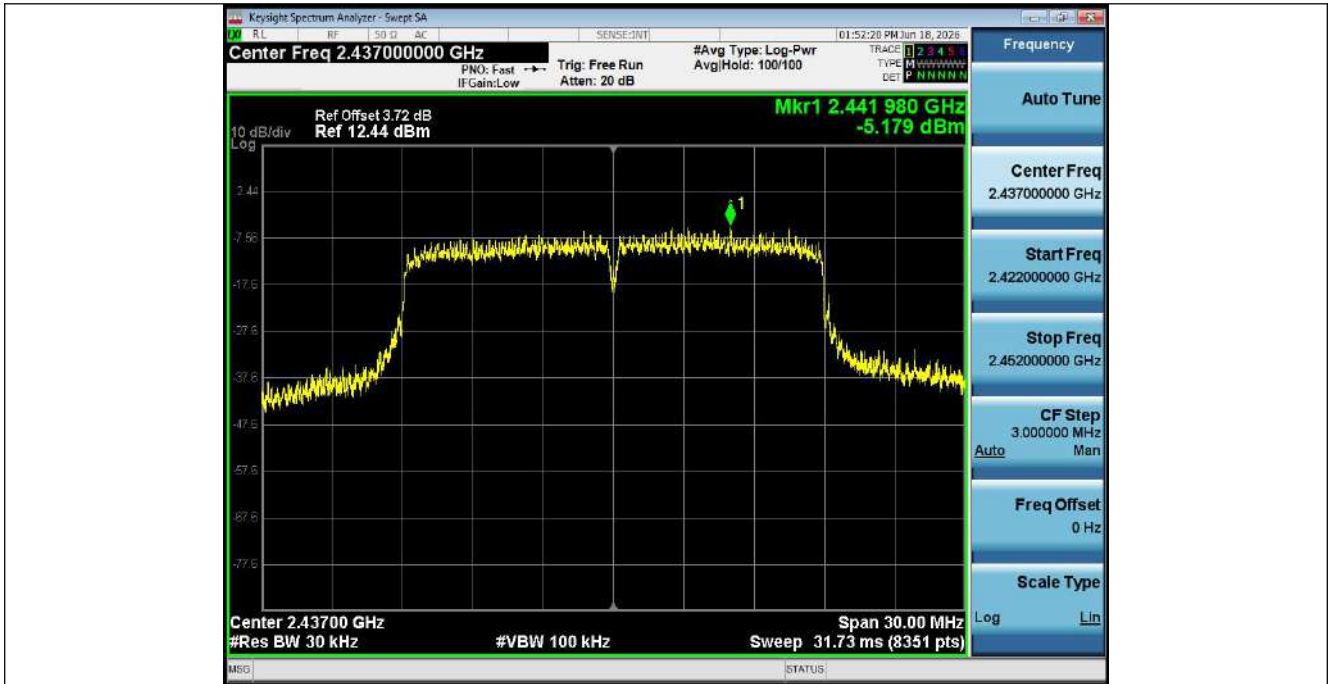
Power_Spectral_Density_NVNT_ANT1_802_11g_2462



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



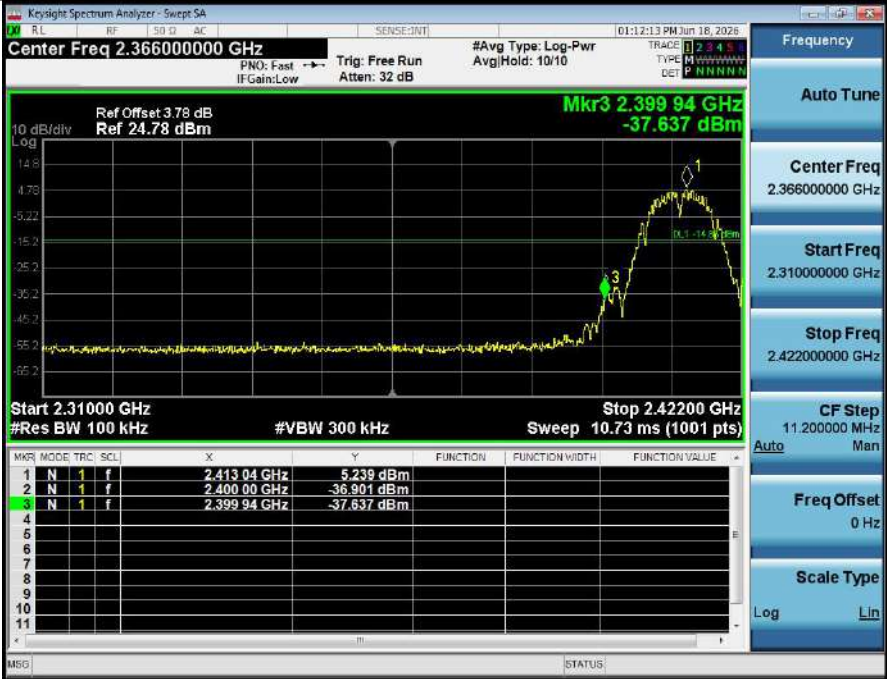
6. Bandedge

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	5.144	-37.637	-14.856	Pass
NVNT	ANT1	802.11b	2462.00	2487.280	3.802	-56.882	-16.198	Pass
NVNT	ANT1	802.11g	2412.00	2399.824	1.057	-25.498	-18.943	Pass
NVNT	ANT1	802.11g	2462.00	2483.536	1.776	-38.408	-18.224	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2398.256	1.560	-27.094	-18.440	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2484.112	0.832	-39.288	-19.168	Pass

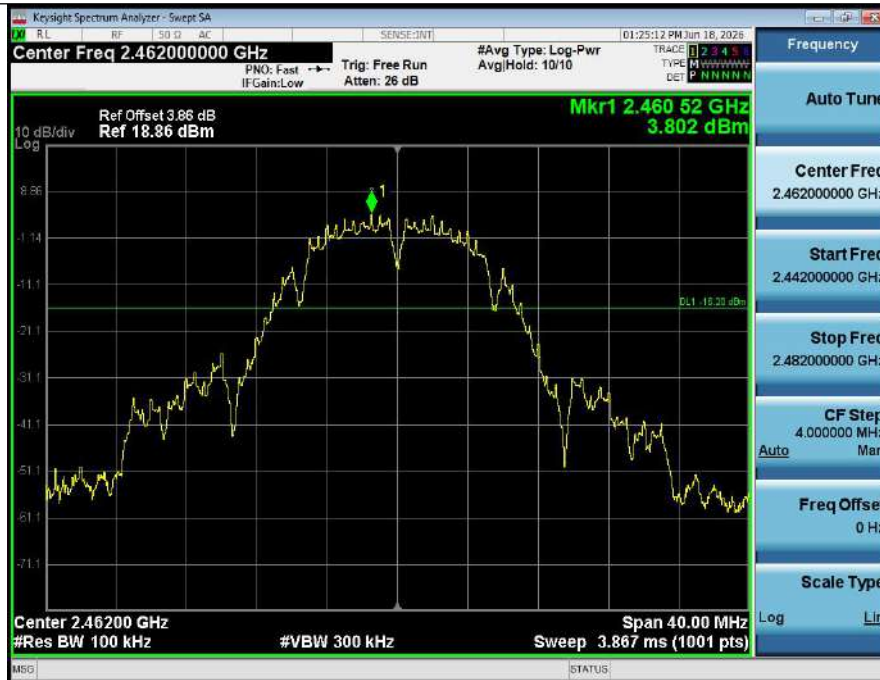
1 Reference Level NVNT ANT1 802_11b 2412



2 Bandedge NVNT ANT1 802_11b 2412



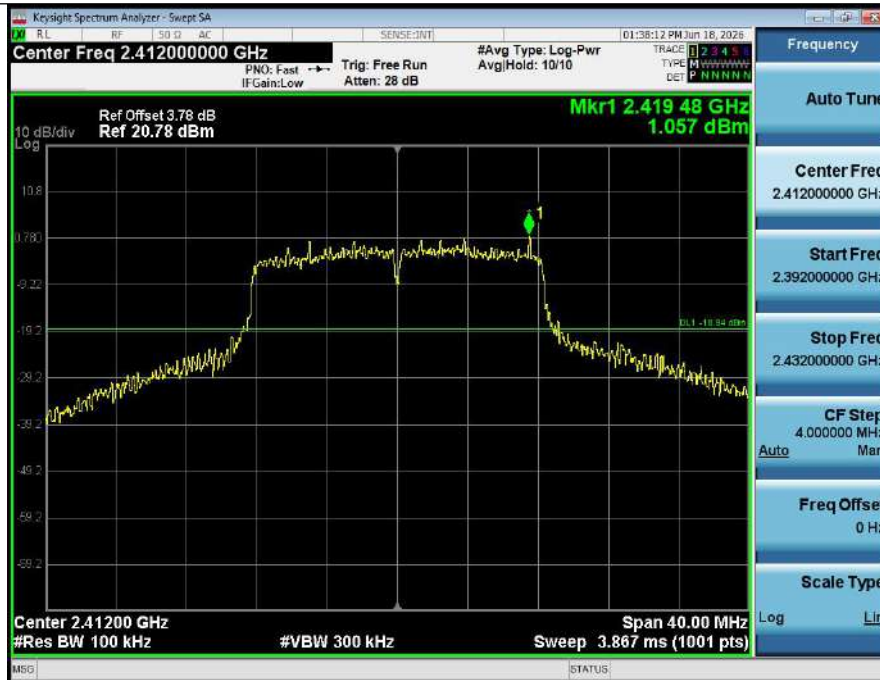
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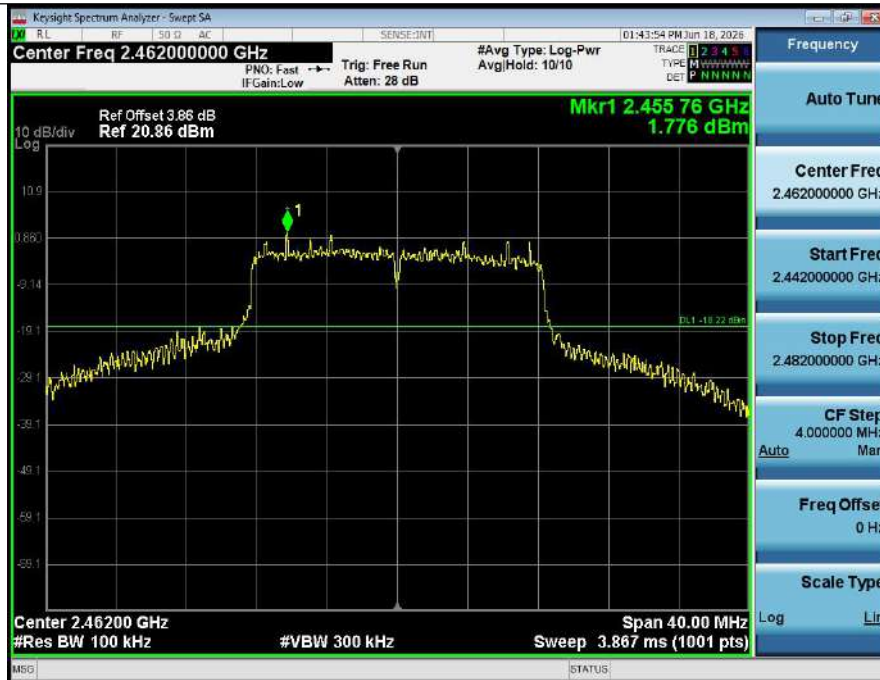
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2_Bandedge_NVNT_ANT1_802_11g_2412



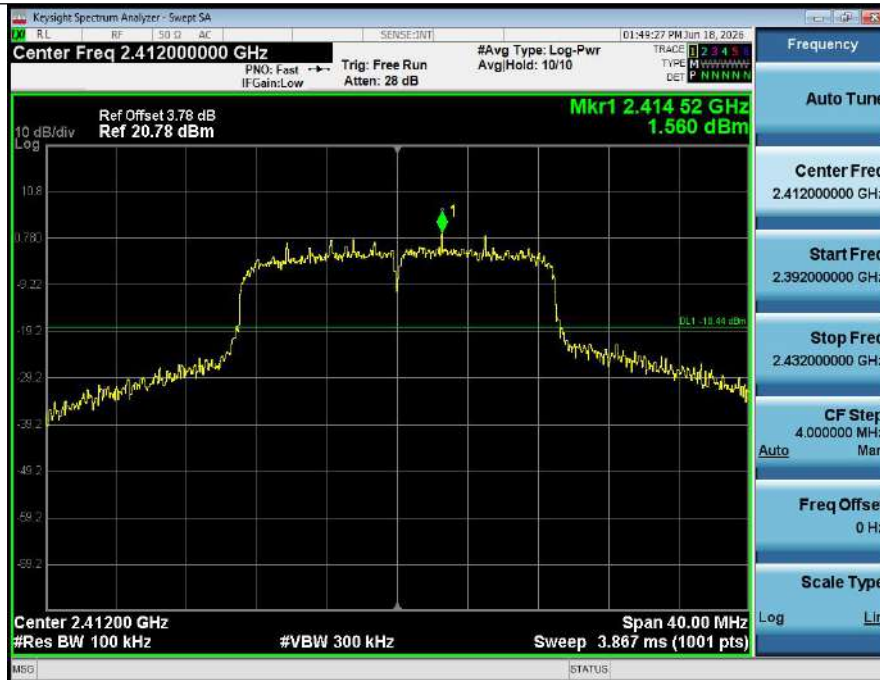
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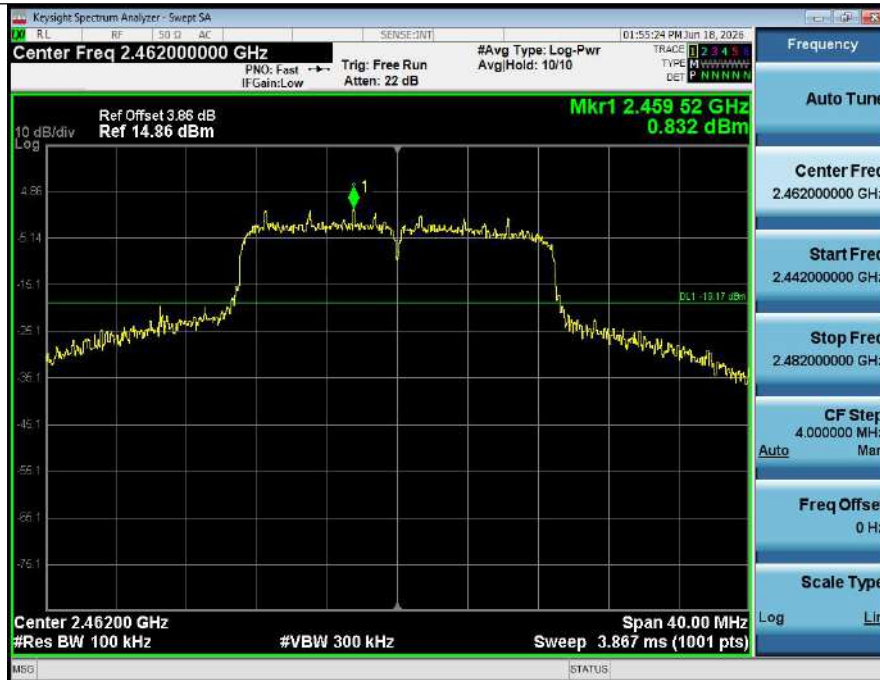
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2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462



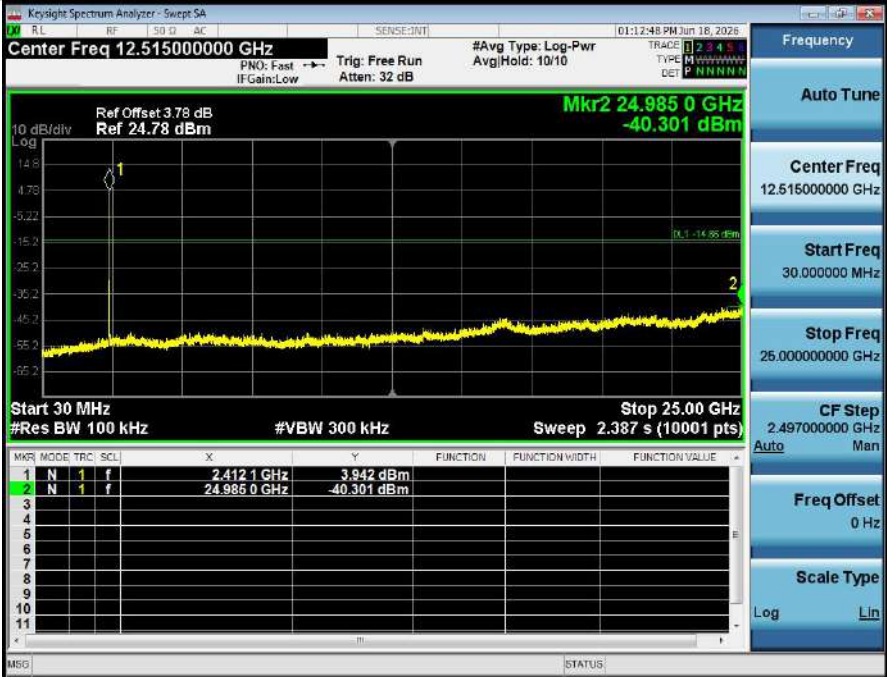
7. Spurious Emission

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	24985.018	5.144	-40.301	-14.856	Pass
NVNT	ANT1	802.11b	2437.00	24987.515	2.644	-47.315	-17.356	Pass
NVNT	ANT1	802.11b	2462.00	24905.114	3.802	-45.686	-16.198	Pass
NVNT	ANT1	802.11g	2412.00	24897.623	1.057	-43.849	-18.943	Pass
NVNT	ANT1	802.11g	2437.00	24962.545	-0.068	-45.979	-20.068	Pass
NVNT	ANT1	802.11g	2462.00	24937.575	1.776	-43.163	-18.224	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24967.539	1.560	-43.134	-18.440	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24480.624	-0.762	-46.143	-20.762	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24892.629	0.832	-49.743	-19.168	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412



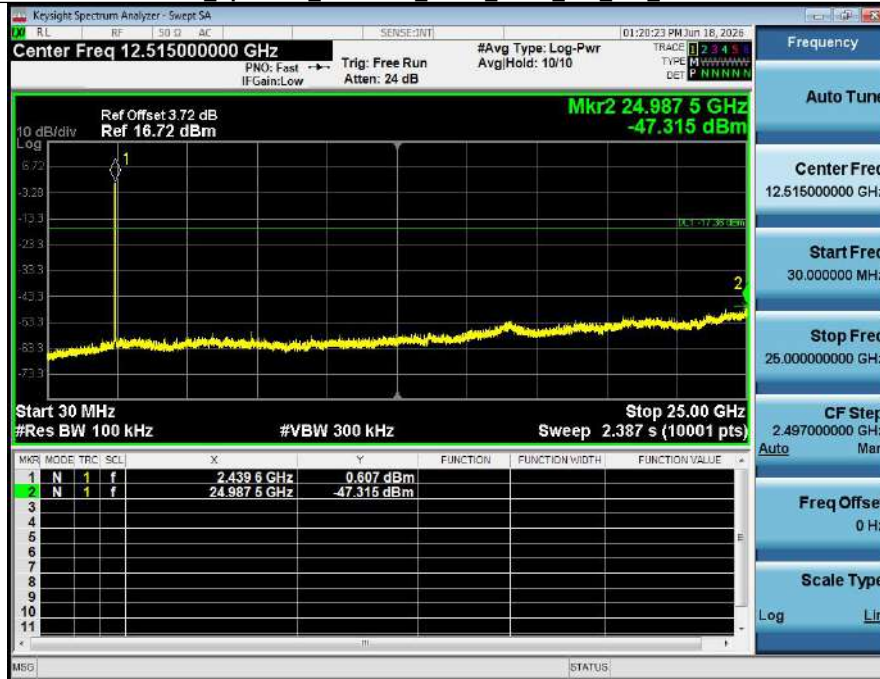
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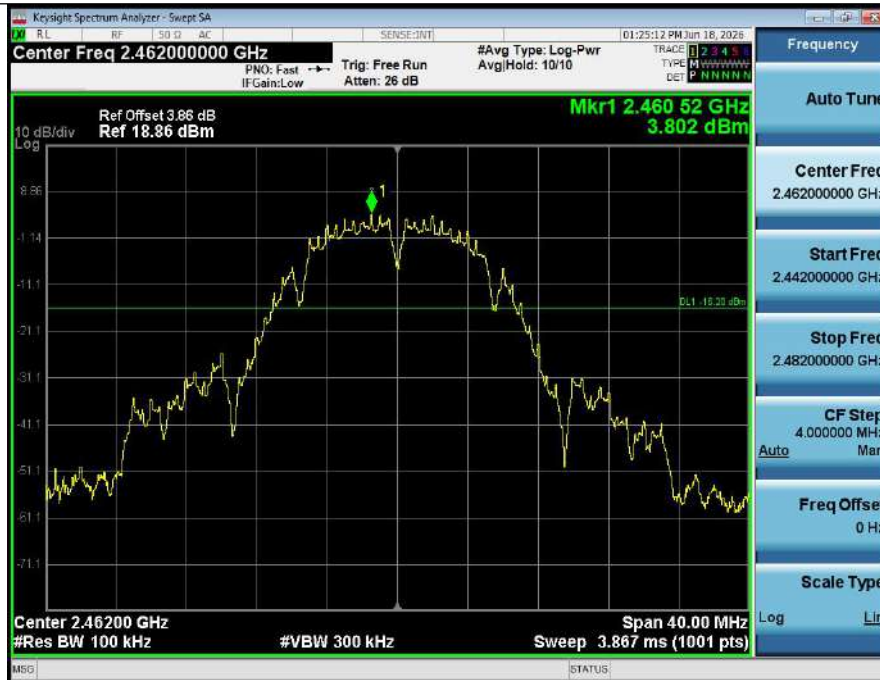
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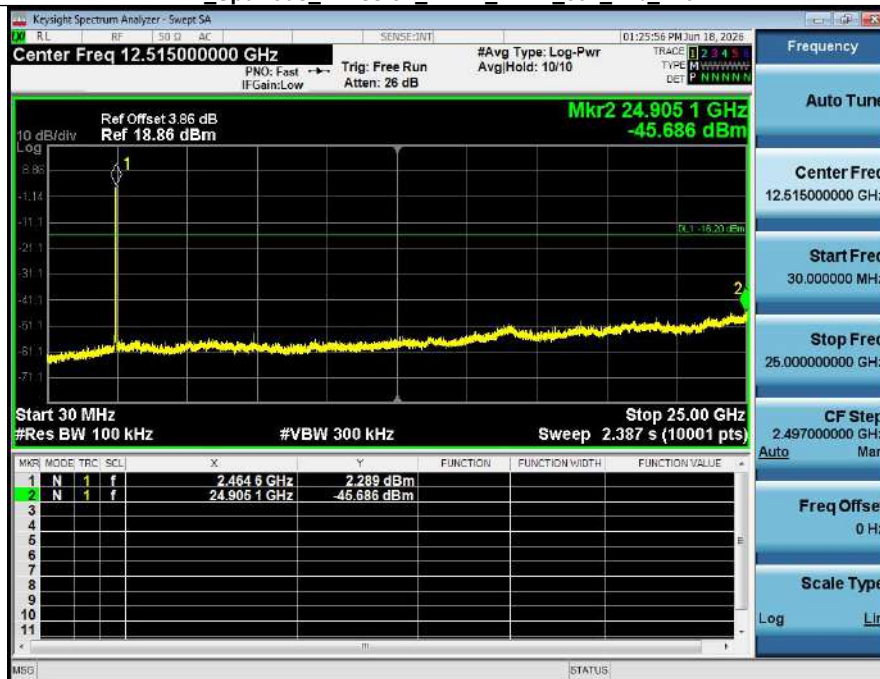
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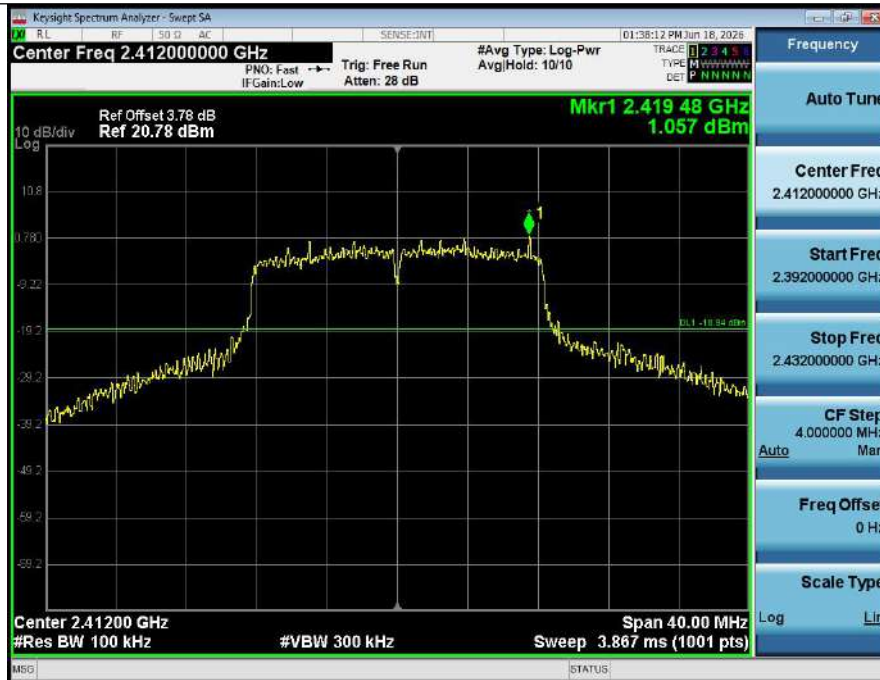
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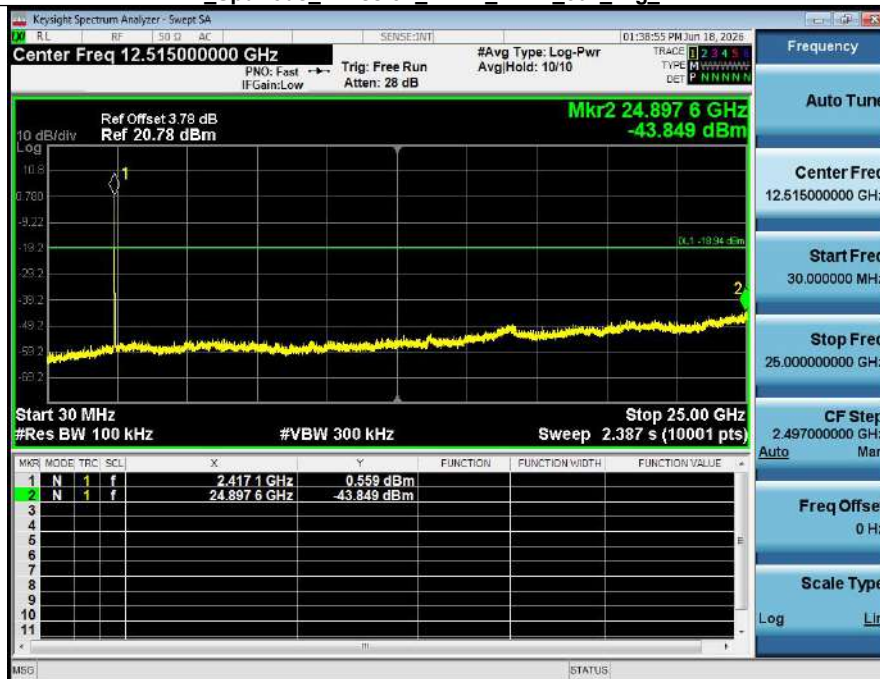
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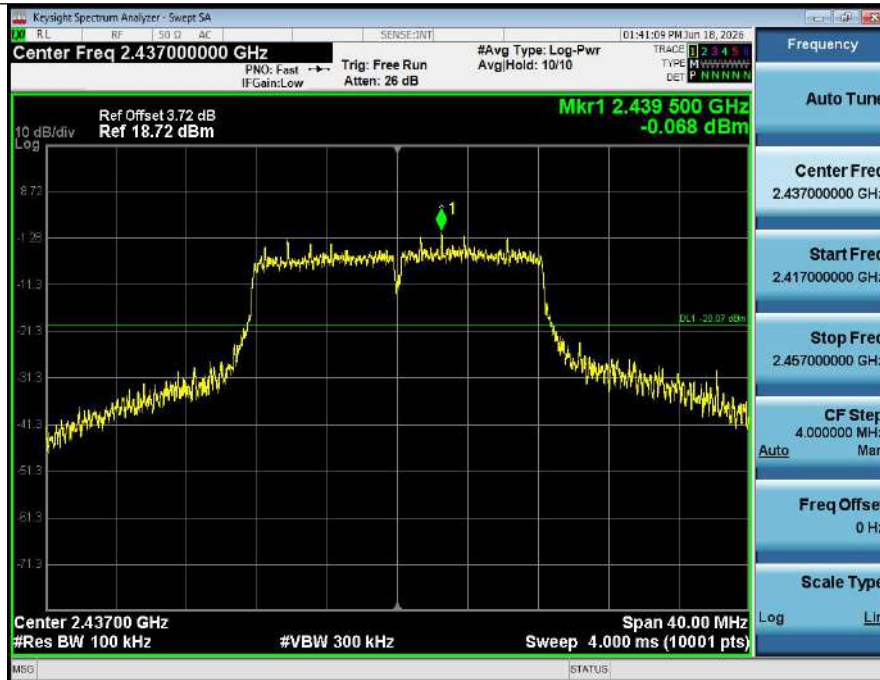
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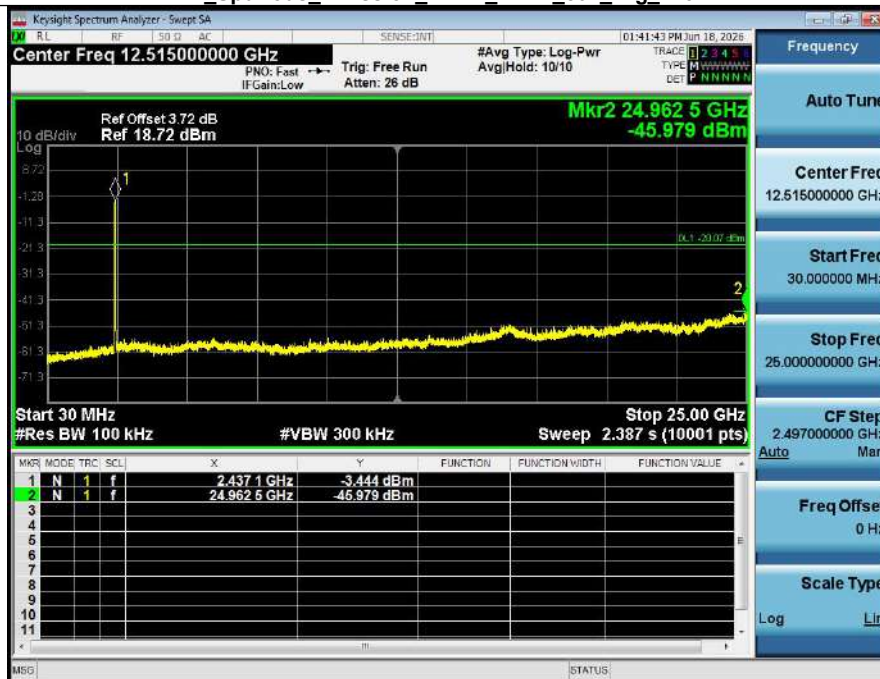
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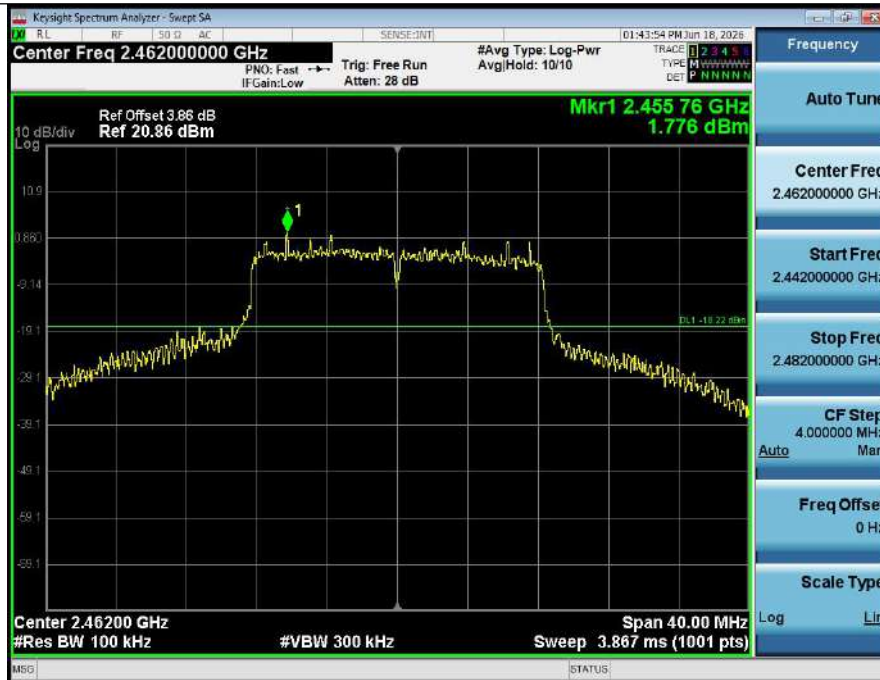
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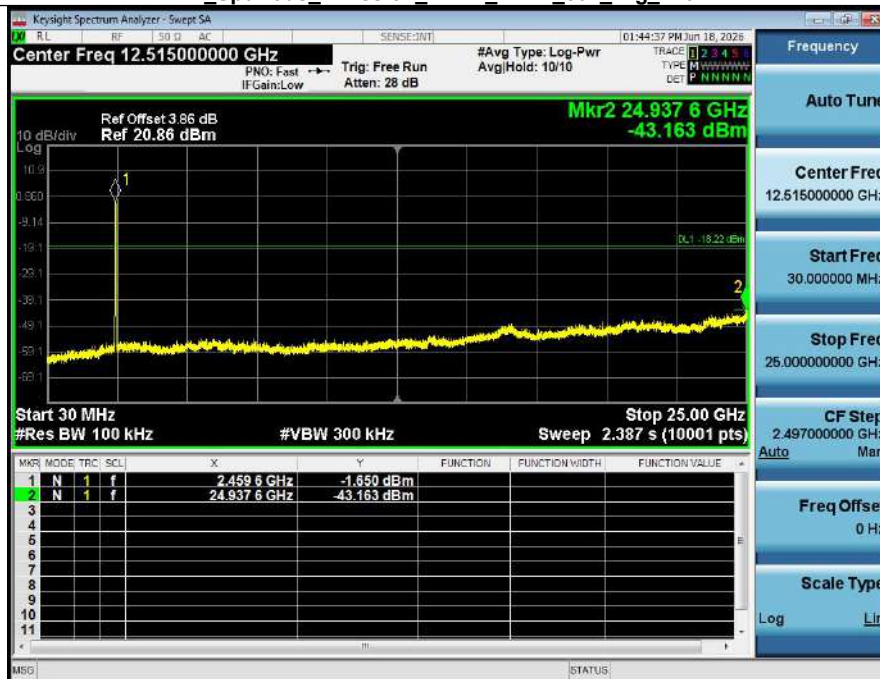
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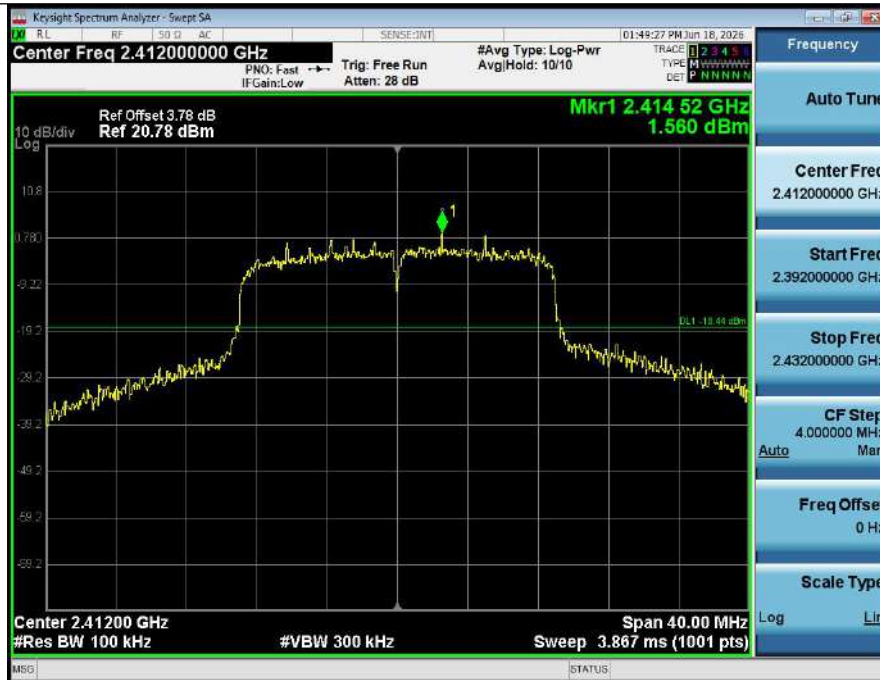
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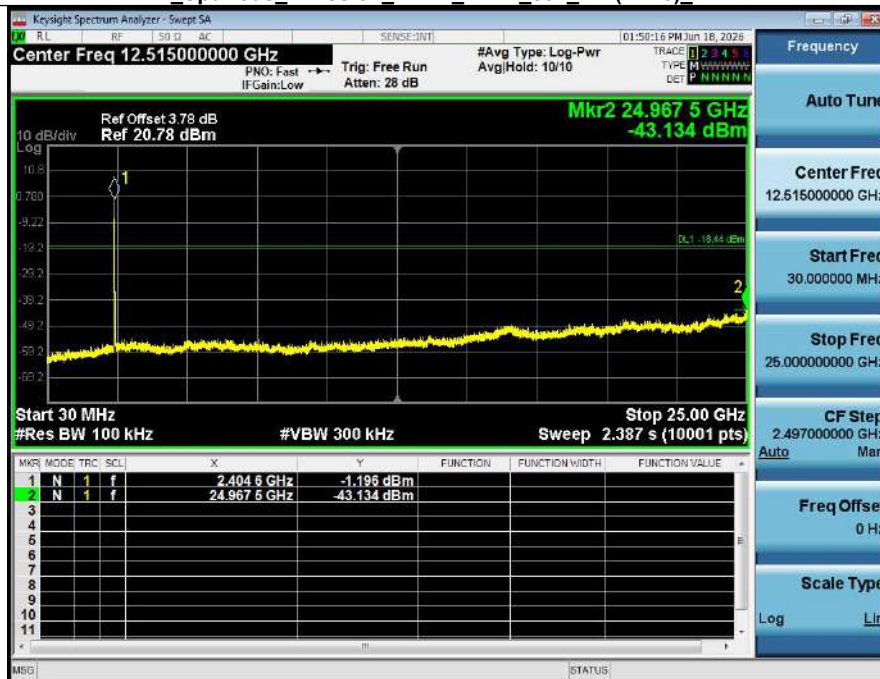
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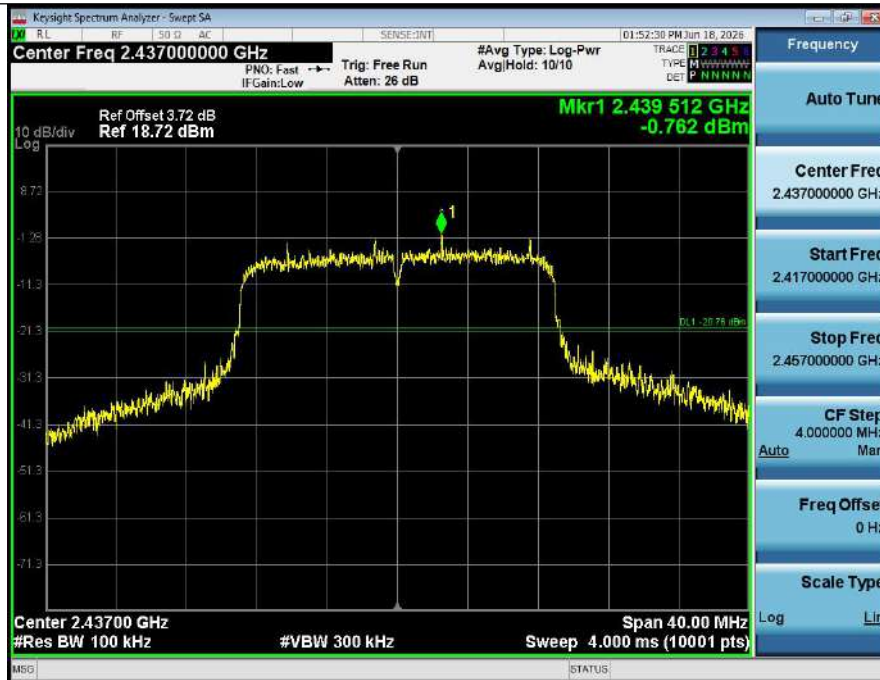
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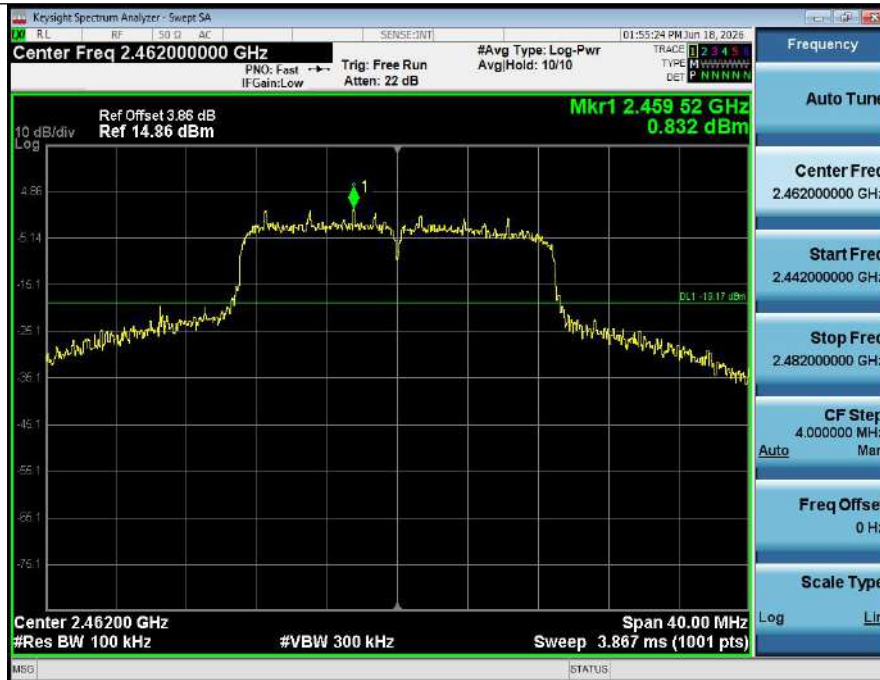
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2 Spurious Emission_NVNT_ANT1_802_11n(HT20)_2437



1 Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2 Spurious Emission_NVNT_ANT1_802_11n(HT20)_2462

