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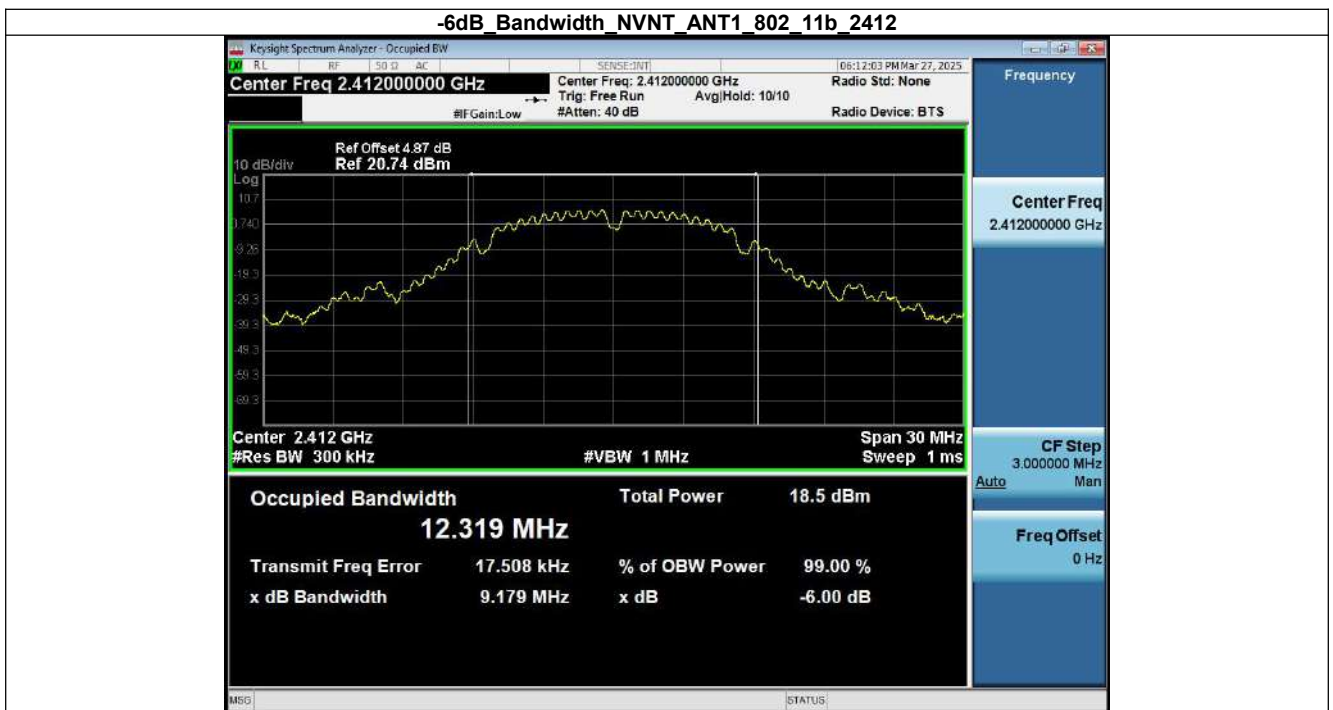
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FCC ID:2AO8RNI-8141A

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	9.18	500	Pass
NVNT	ANT1	802.11b	2437.00	9.19	500	Pass
NVNT	ANT1	802.11b	2462.00	9.20	500	Pass
NVNT	ANT1	802.11g	2412.00	16.42	500	Pass
NVNT	ANT1	802.11g	2437.00	16.37	500	Pass
NVNT	ANT1	802.11g	2462.00	16.43	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.40	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.44	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.28	500	Pass



-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

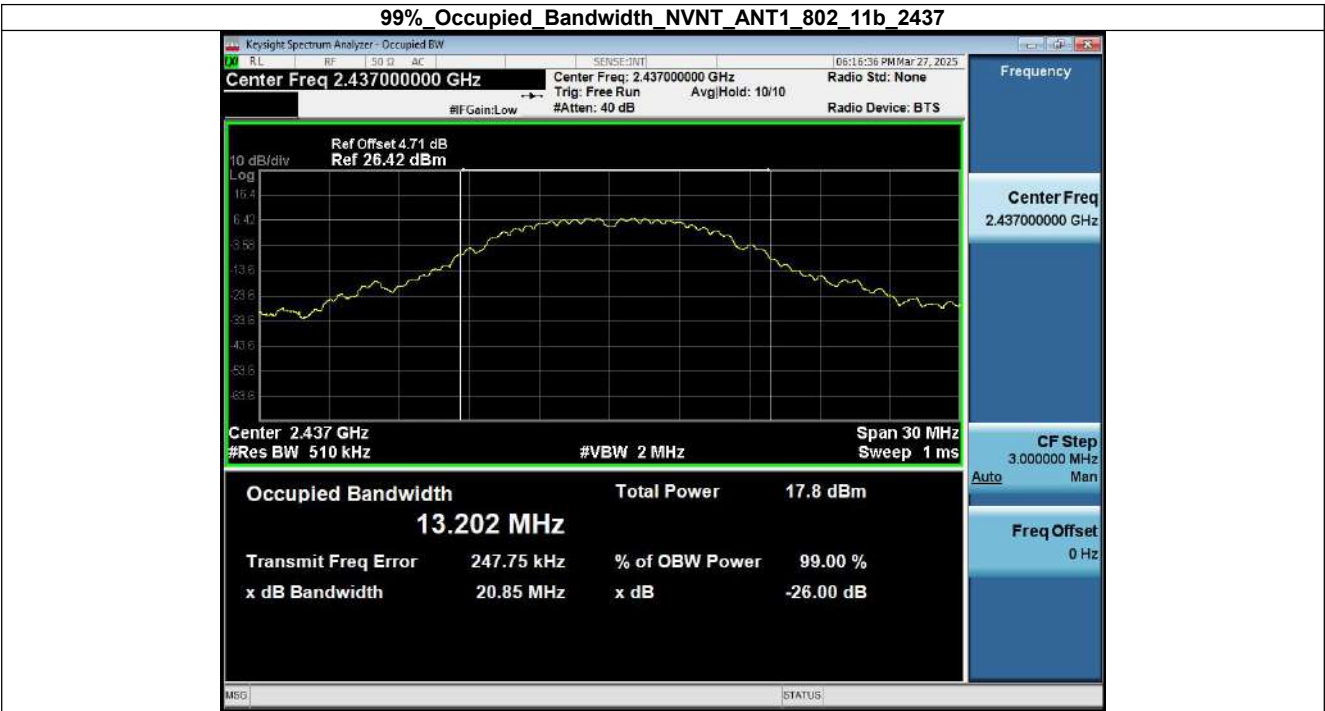
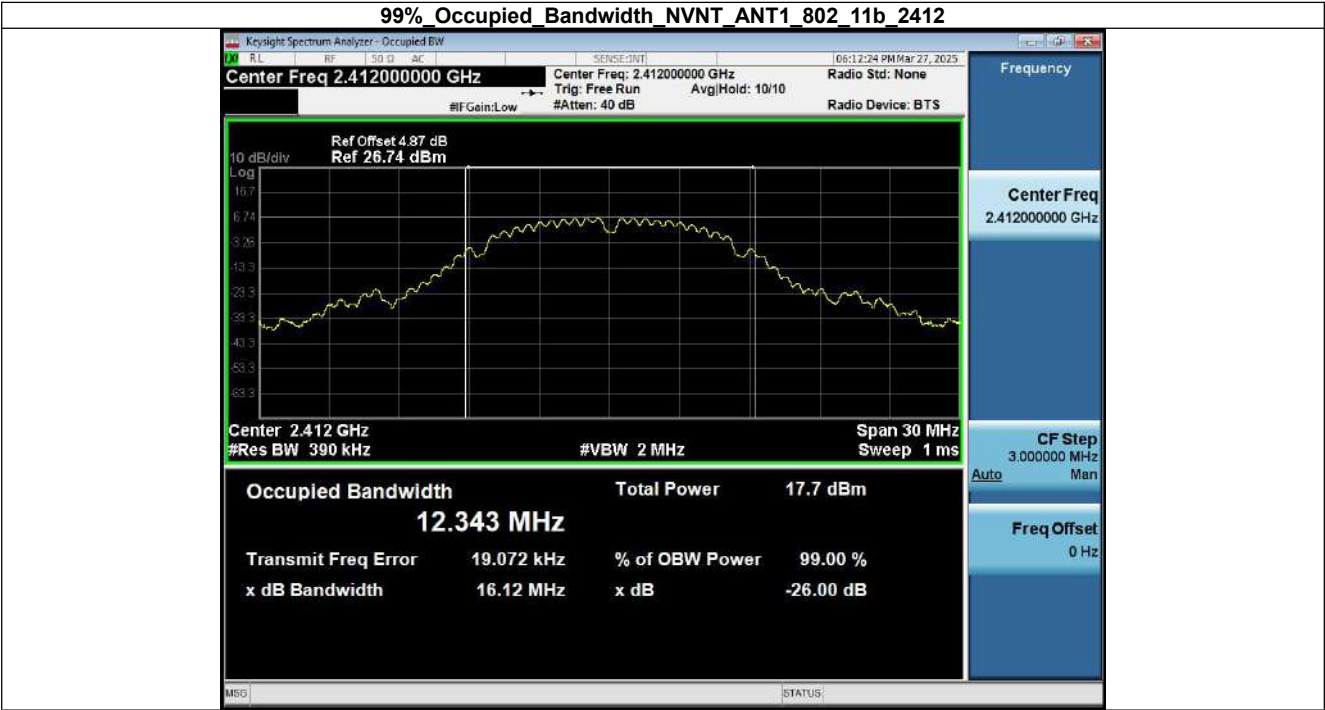


-6dB Bandwidth NVNT ANT1 802 11n(HT20) 2462



2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	12.343
NVNT	ANT1	802.11b	2437.00	13.202
NVNT	ANT1	802.11b	2462.00	12.628
NVNT	ANT1	802.11g	2412.00	17.310
NVNT	ANT1	802.11g	2437.00	18.102
NVNT	ANT1	802.11g	2462.00	17.640
NVNT	ANT1	802.11n(HT20)	2412.00	17.898
NVNT	ANT1	802.11n(HT20)	2437.00	17.874
NVNT	ANT1	802.11n(HT20)	2462.00	17.756



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

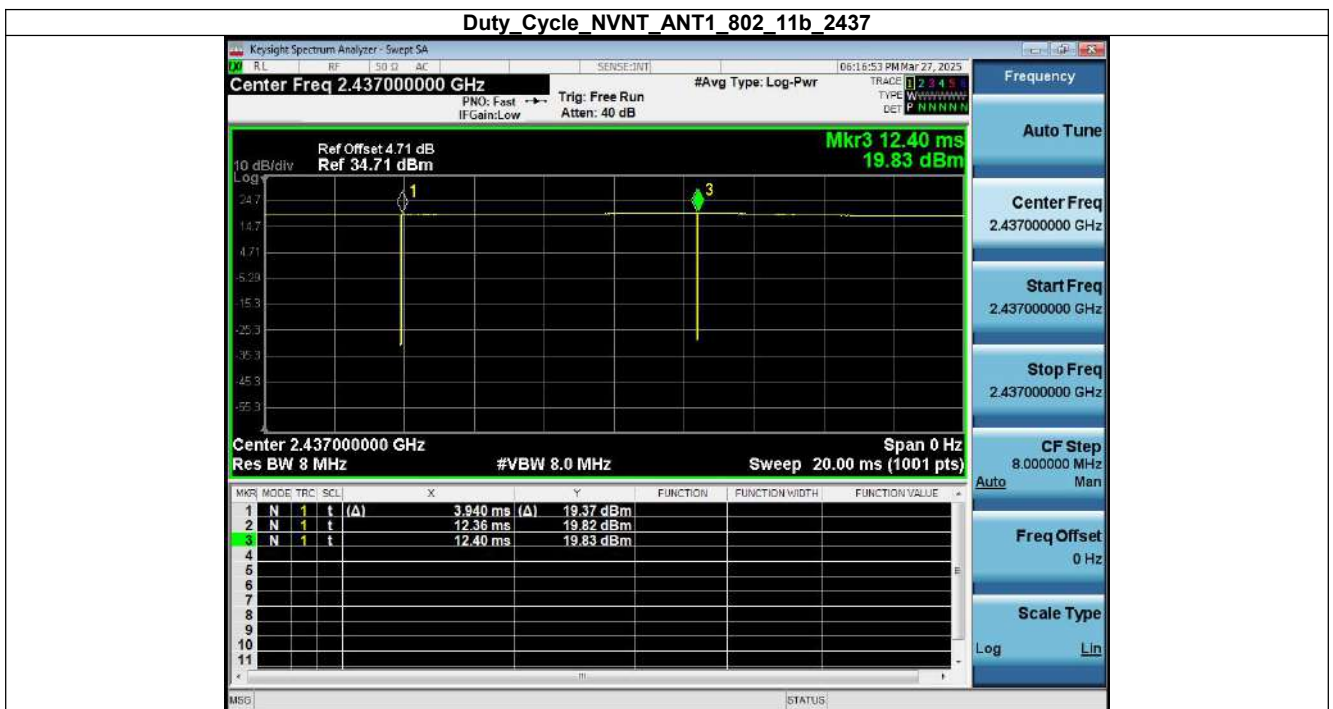
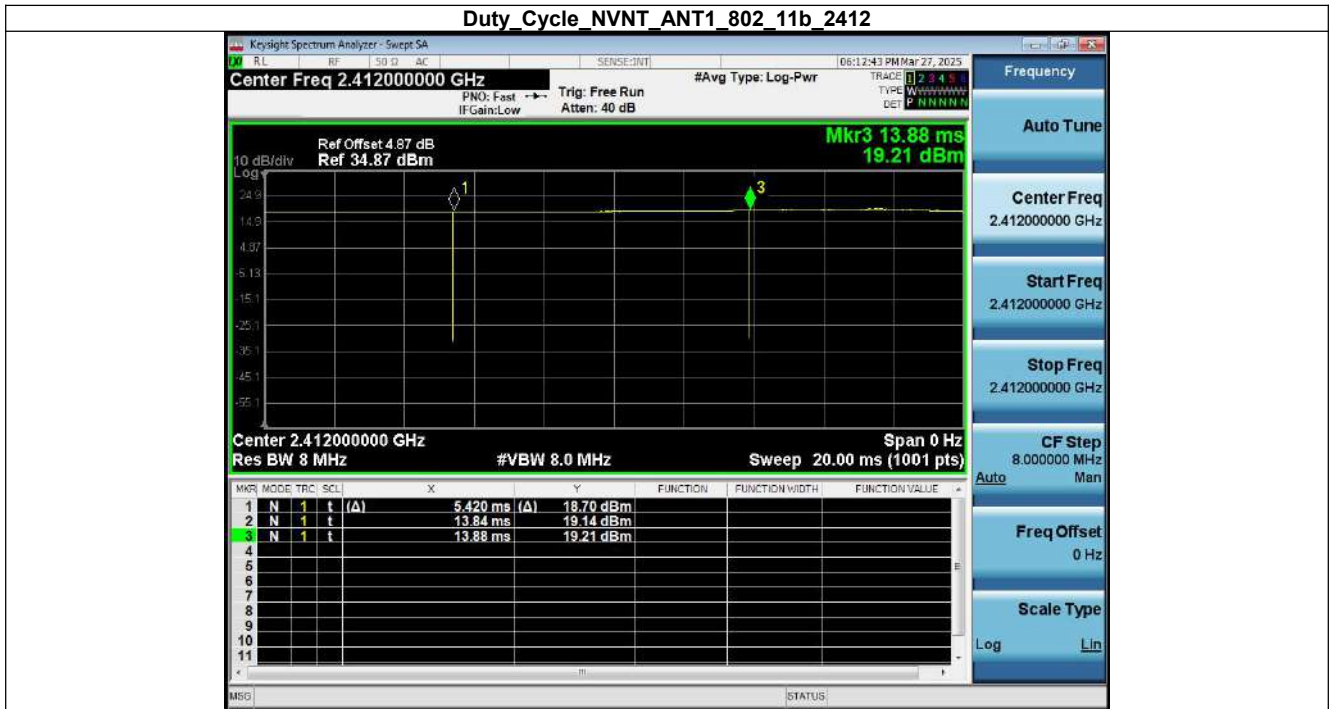


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



3. Duty Cycle

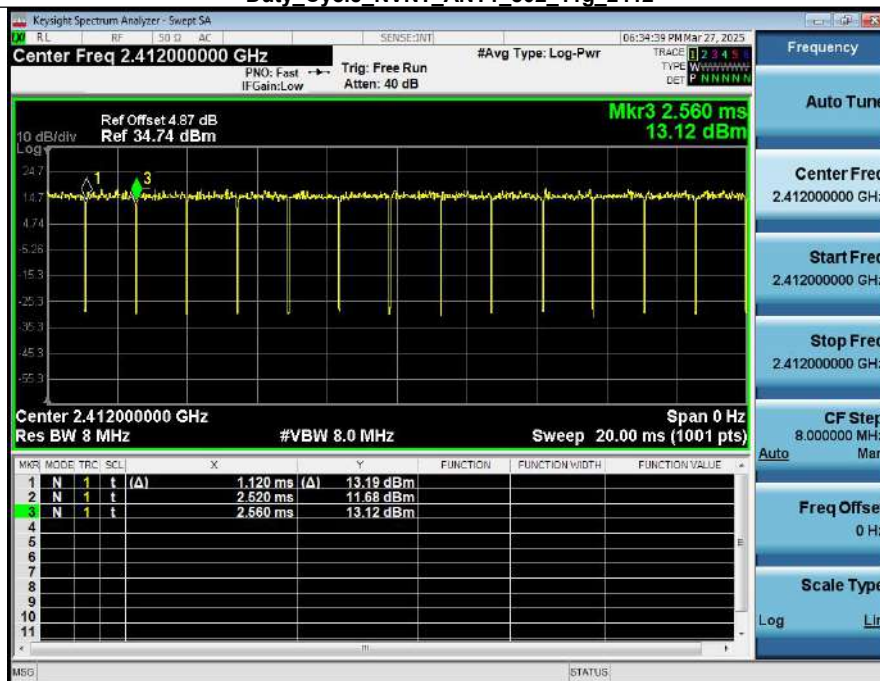
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.76	0.00
NVNT	ANT1	802.11b	2437.00	99.76	0.00
NVNT	ANT1	802.11b	2462.00	99.53	0.00
NVNT	ANT1	802.11g	2412.00	98.61	0.00
NVNT	ANT1	802.11g	2437.00	98.61	0.00
NVNT	ANT1	802.11g	2462.00	97.26	0.12
NVNT	ANT1	802.11n(HT20)	2412.00	96.77	0.14
NVNT	ANT1	802.11n(HT20)	2437.00	98.36	0.00
NVNT	ANT1	802.11n(HT20)	2462.00	96.72	0.14



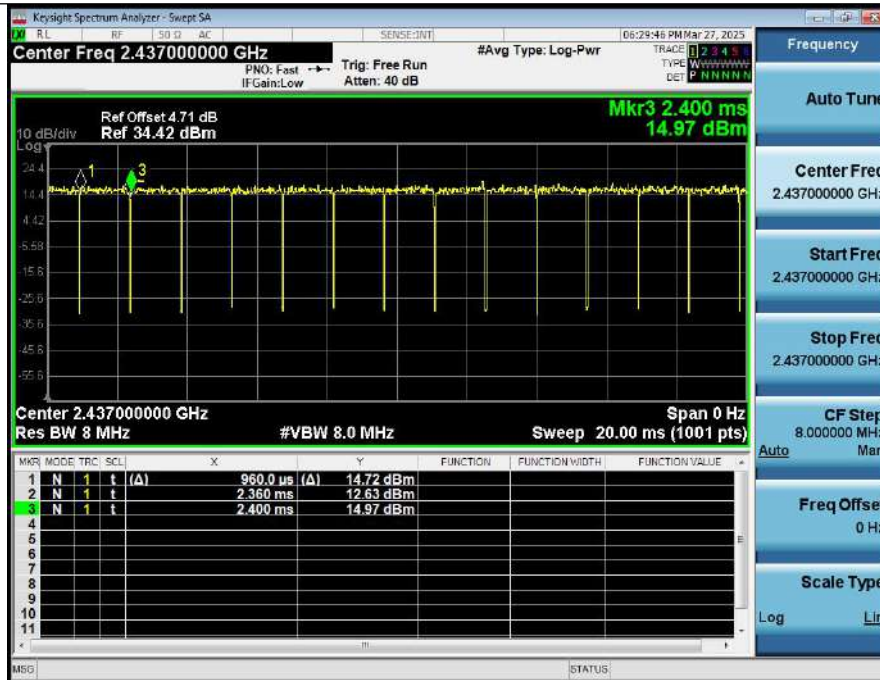
Duty Cycle NVNT_ANT1_802_11b_2462



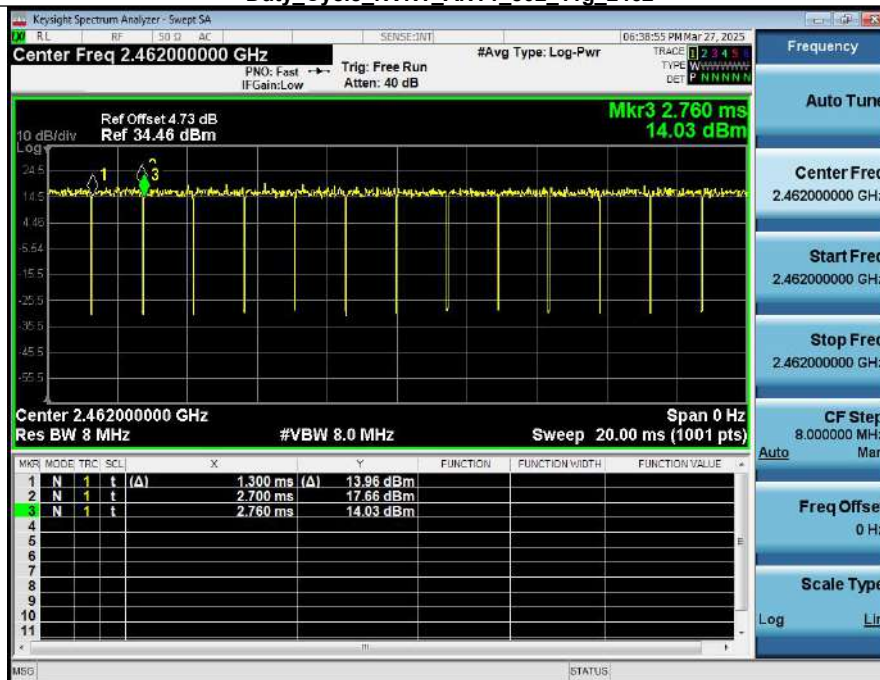
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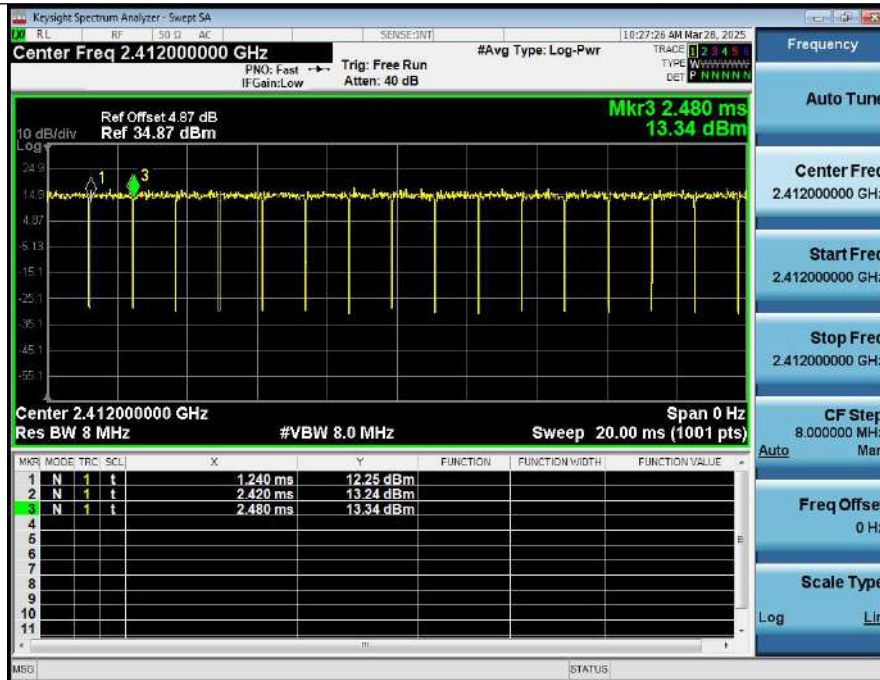
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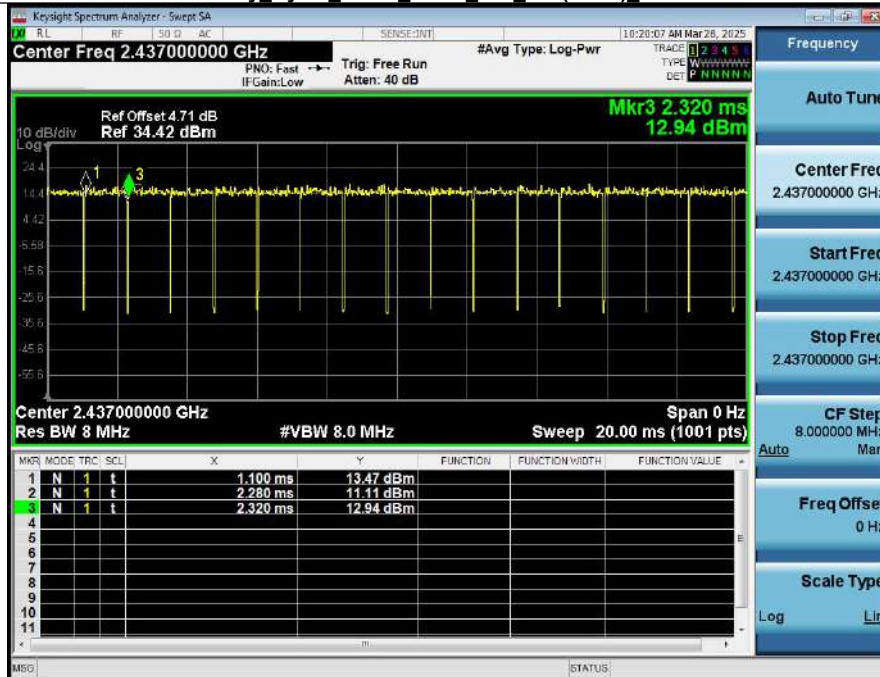
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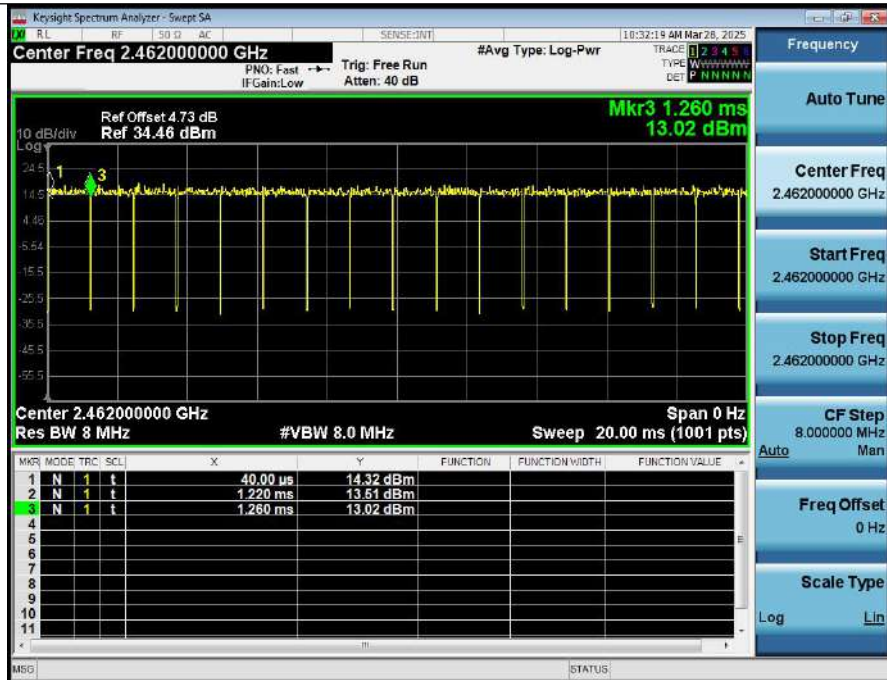
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Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



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	17.11	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	17.78	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	17.89	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	18.03	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	18.82	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	18.87	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	18.04	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	18.72	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	18.09	30	Pass

5. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD(dBm/30kHz)	Duty factor(dB)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	2.21	N/A	-10.00	-7.79	8	Pass
NVNT	ANT1	802.11b	2437.00	6.13	N/A	-10.00	-3.87	8	Pass
NVNT	ANT1	802.11b	2462.00	2.66	N/A	-10.00	-7.34	8	Pass
NVNT	ANT1	802.11g	2412.00	-4.20	N/A	-10.00	-14.20	8	Pass
NVNT	ANT1	802.11g	2437.00	-2.46	N/A	-10.00	-12.46	8	Pass
NVNT	ANT1	802.11g	2462.00	-3.62	N/A	-10.00	-13.62	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-5.02	N/A	-10.00	-15.02	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-4.94	N/A	-10.00	-14.94	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-3.85	N/A	-10.00	-13.85	8	Pass



Power_Spectral_Density_NVNT_ANT1_802_11b_2437



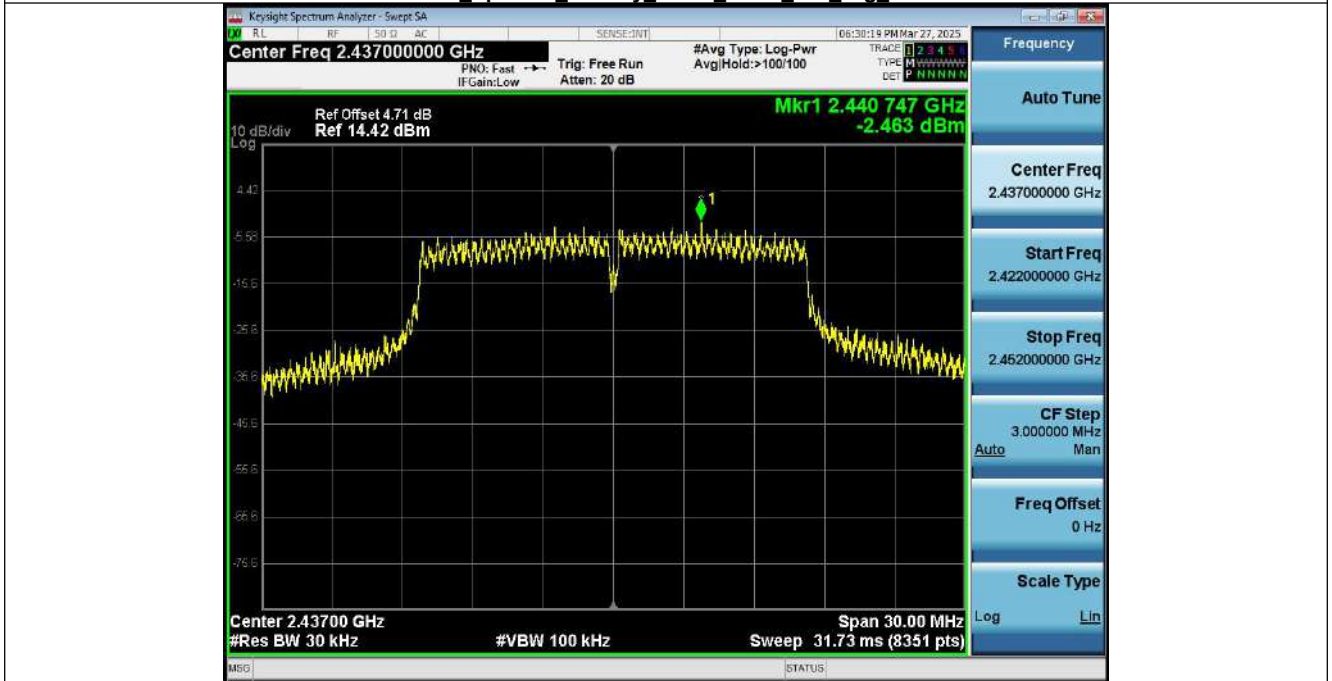
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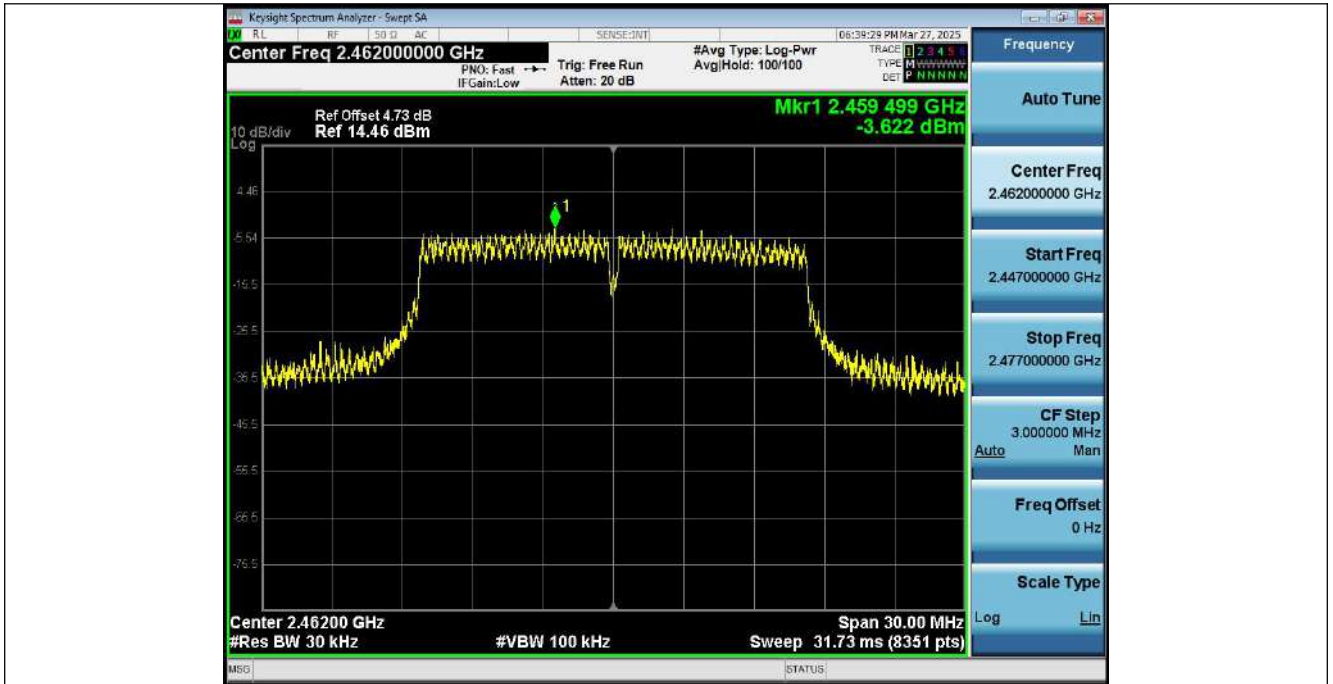
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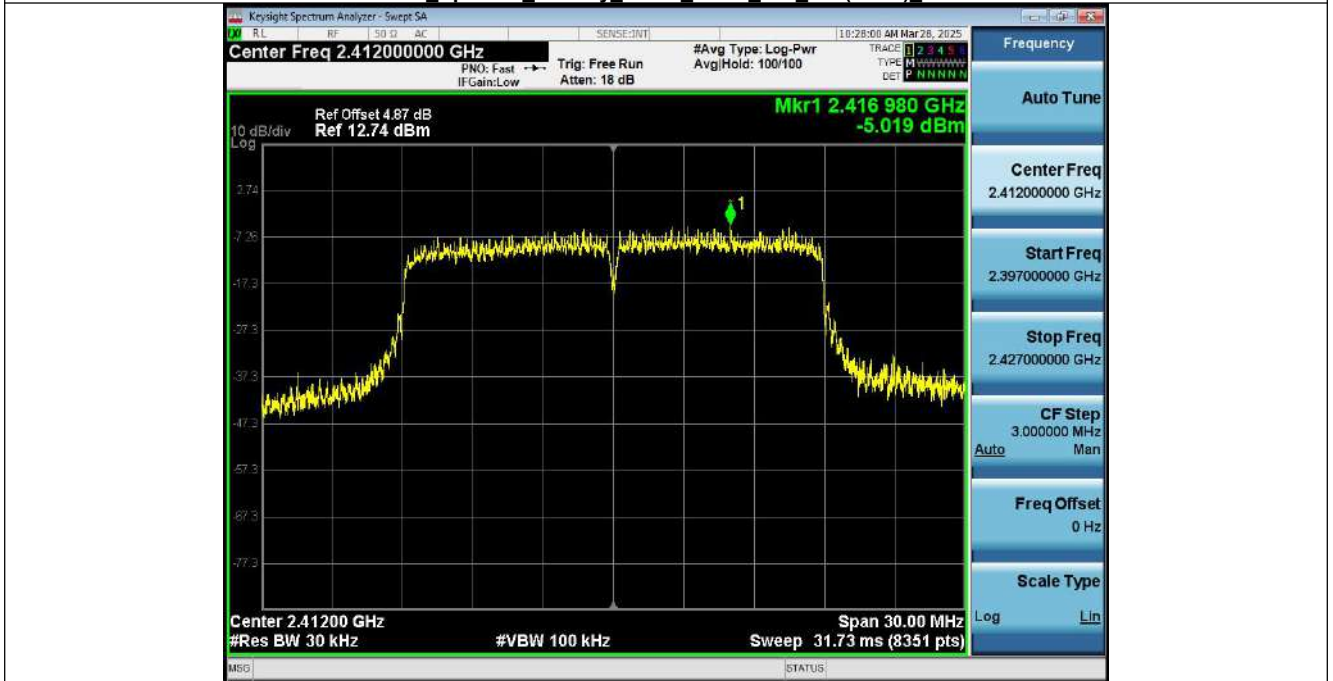
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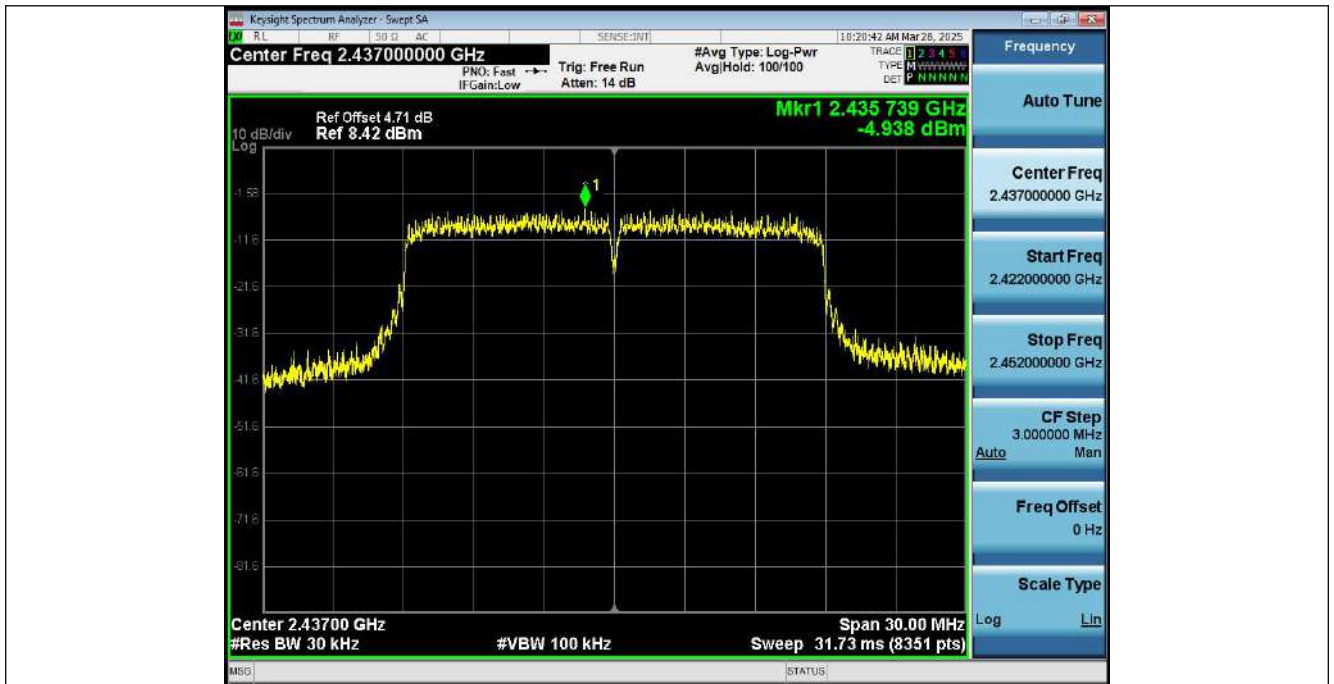
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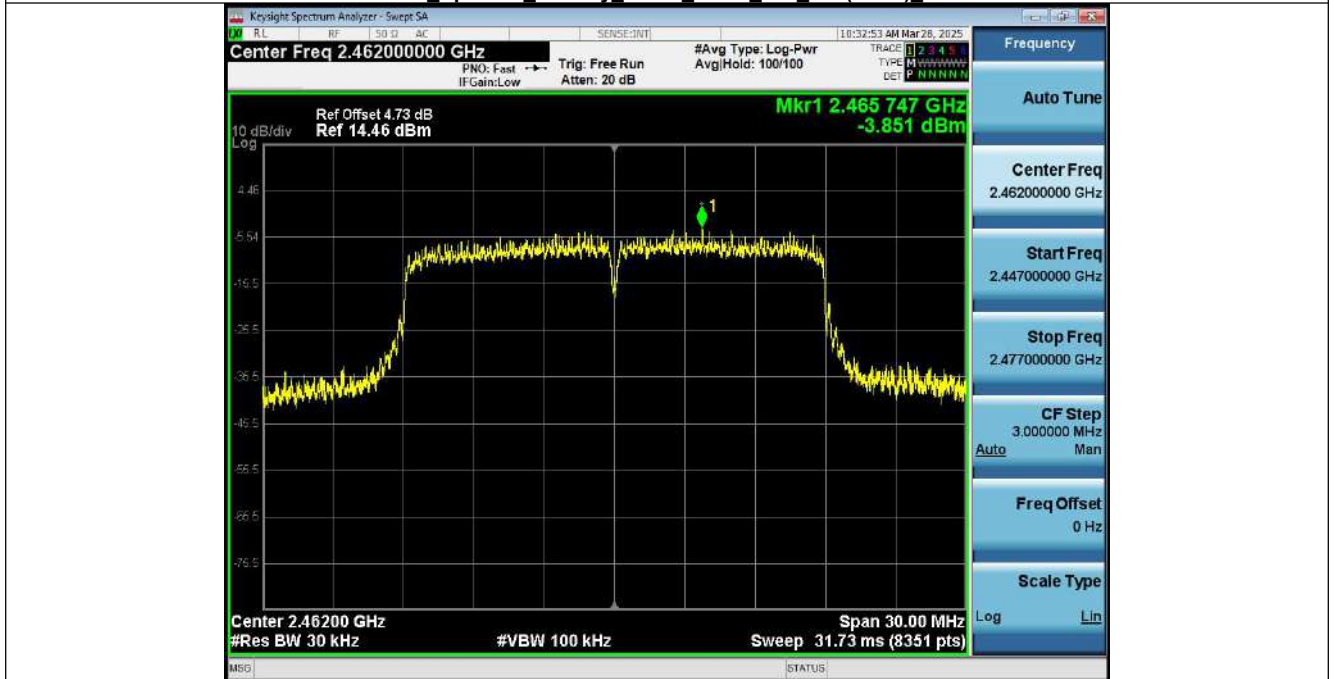
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437



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	5.959	-29.783	-14.041	Pass
NVNT	ANT1	802.11b	2462.00	2483.536	6.328	-44.288	-13.672	Pass
NVNT	ANT1	802.11g	2412.00	2399.824	0.710	-29.267	-19.290	Pass
NVNT	ANT1	802.11g	2462.00	2483.536	0.927	-38.880	-19.073	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.488	-0.760	-30.143	-20.760	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.584	0.315	-37.261	-19.685	Pass

1 Reference Level NVNT ANT1 802_11b 2412



2 Bandedge NVNT ANT1 802_11b 2412



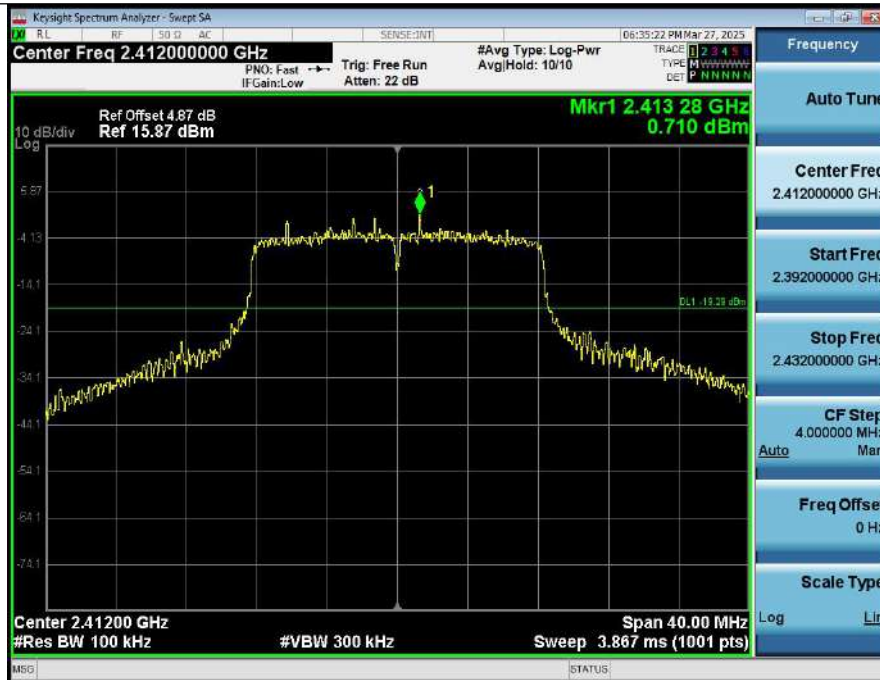
1 Reference Level NVNT ANT1 802_11b 2462



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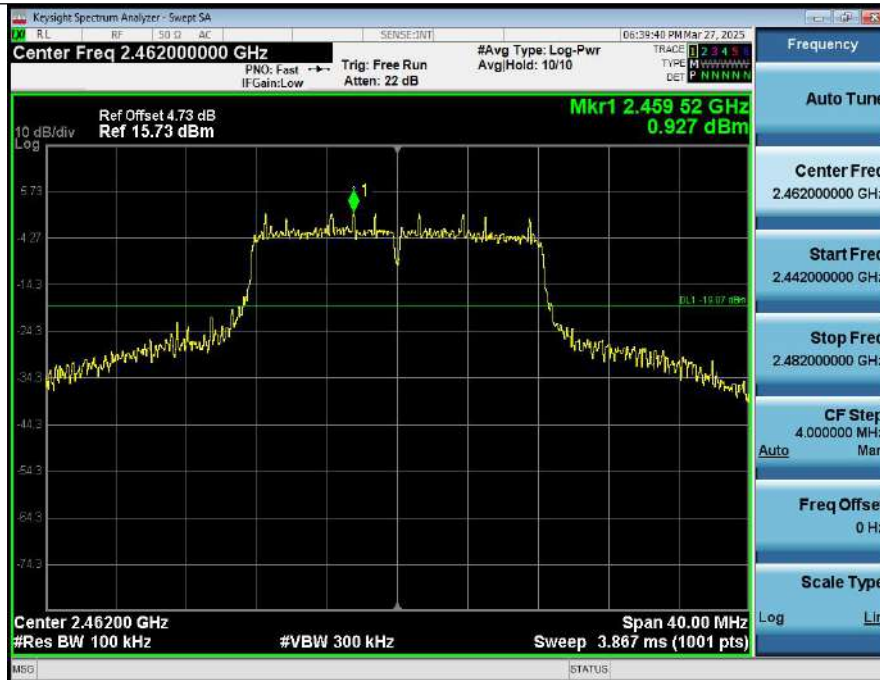
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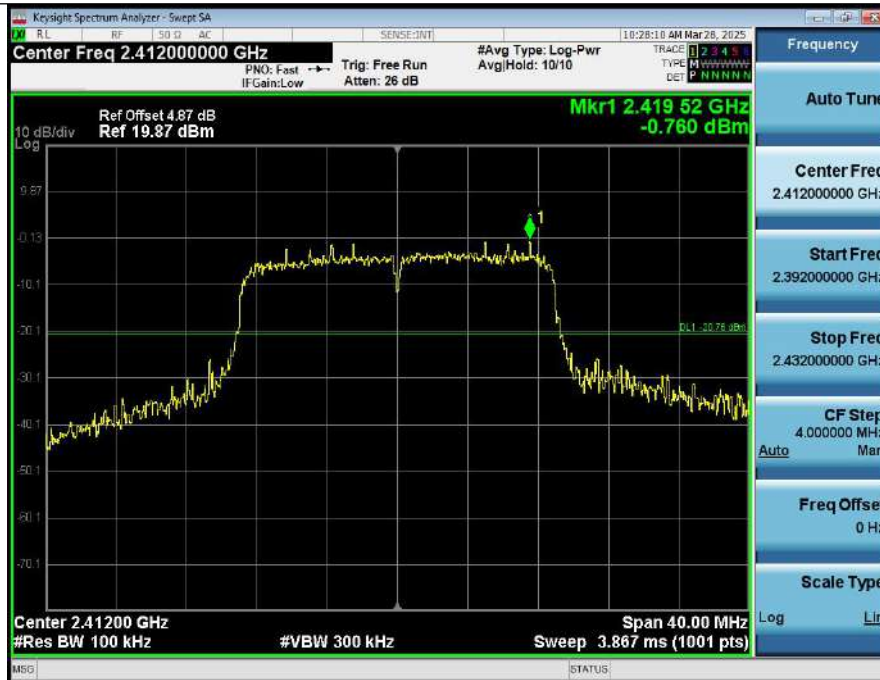
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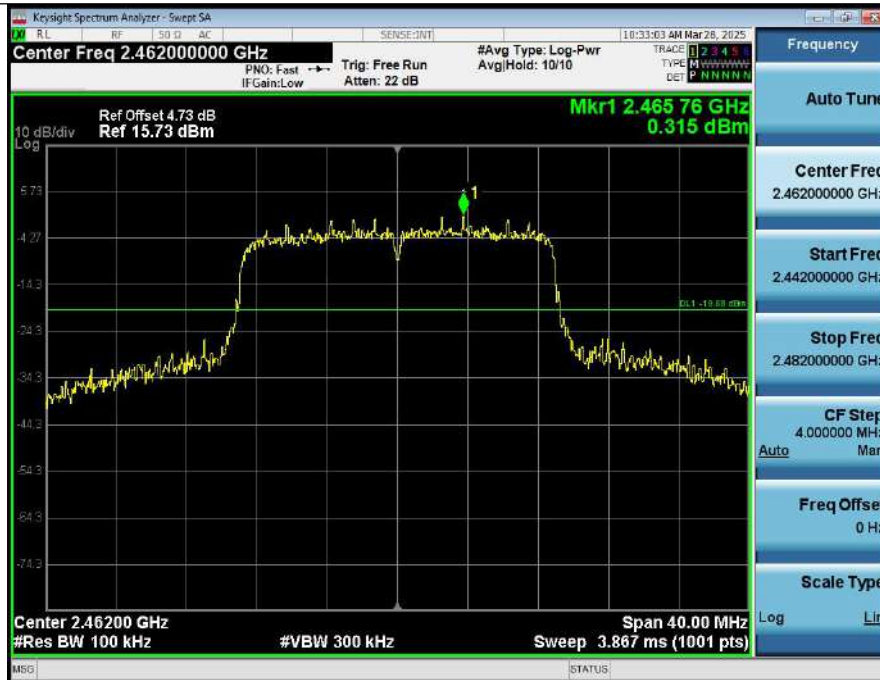
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2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462



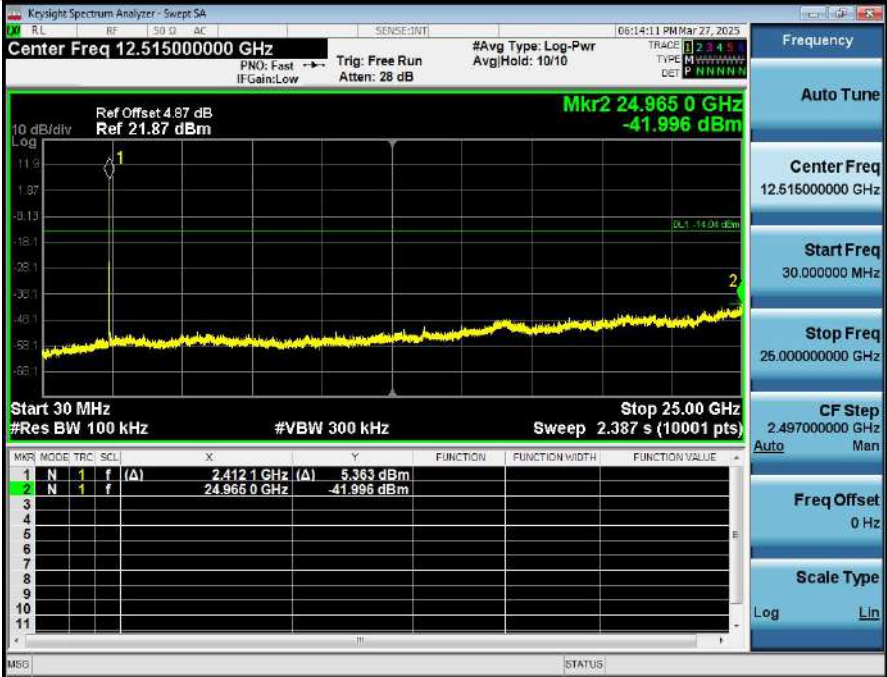
7. Spurious Emission

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	24965.042	5.959	-41.996	-14.041	Pass
NVNT	ANT1	802.11b	2437.00	24997.503	6.496	-42.650	-13.504	Pass
NVNT	ANT1	802.11b	2462.00	24955.054	6.328	-42.043	-13.672	Pass
NVNT	ANT1	802.11g	2412.00	24912.605	0.710	-49.500	-19.290	Pass
NVNT	ANT1	802.11g	2437.00	24962.545	1.385	-49.198	-18.615	Pass
NVNT	ANT1	802.11g	2462.00	24957.551	0.927	-49.646	-19.073	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24947.563	-0.760	-44.358	-20.760	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24930.084	-0.451	-46.445	-20.451	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24982.521	0.315	-49.399	-19.685	Pass

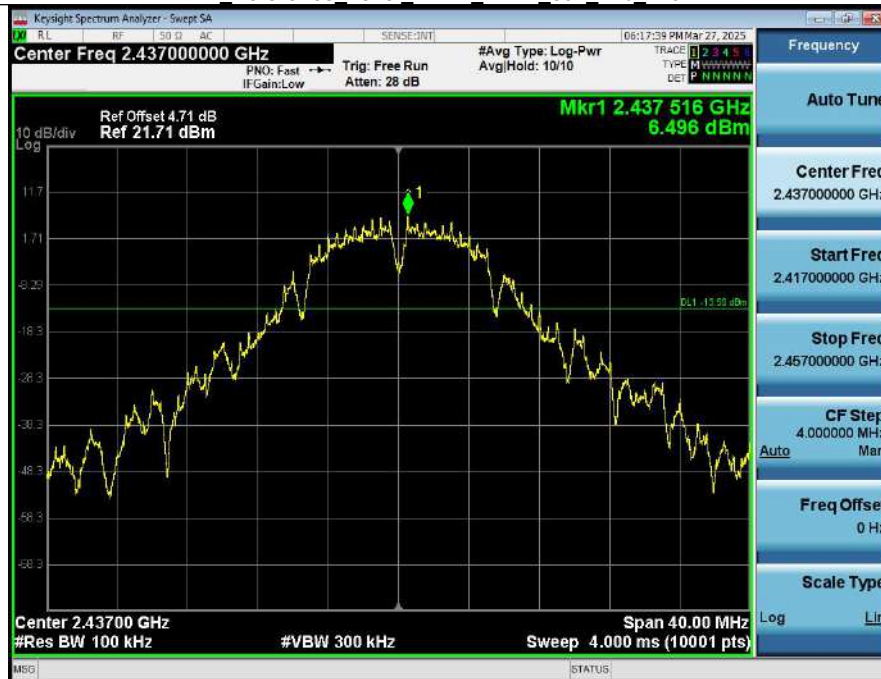
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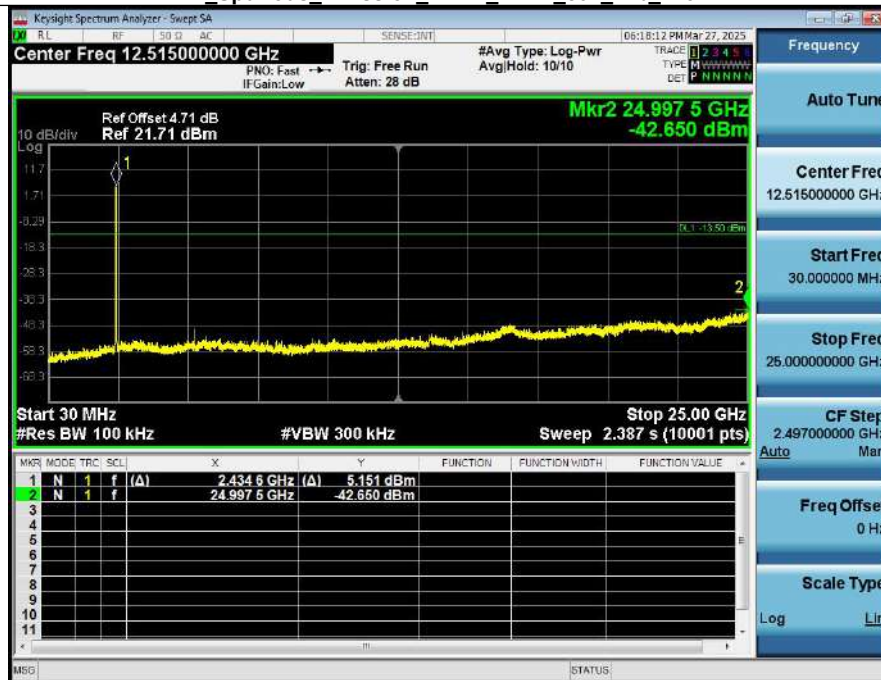
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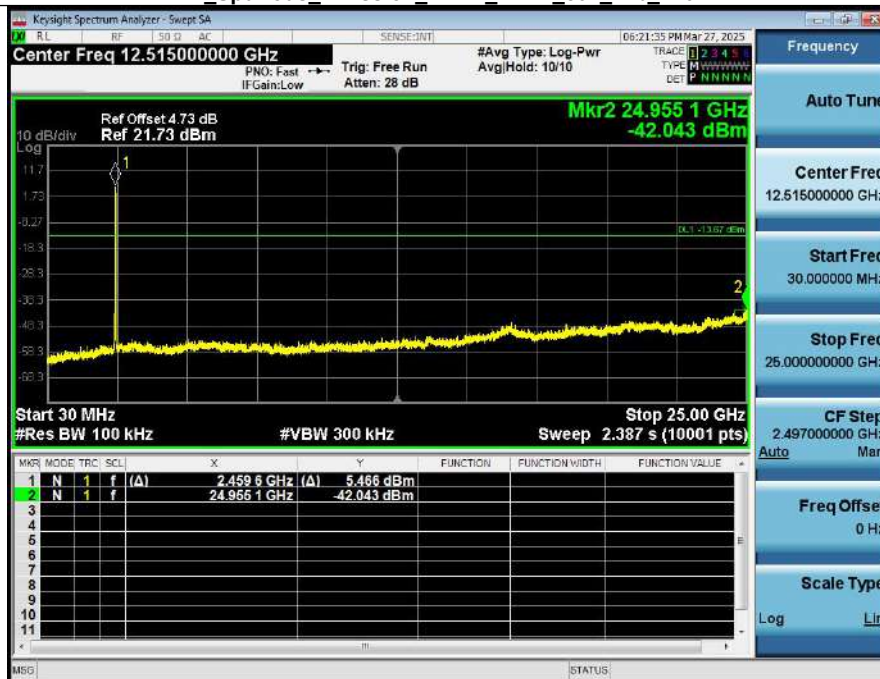
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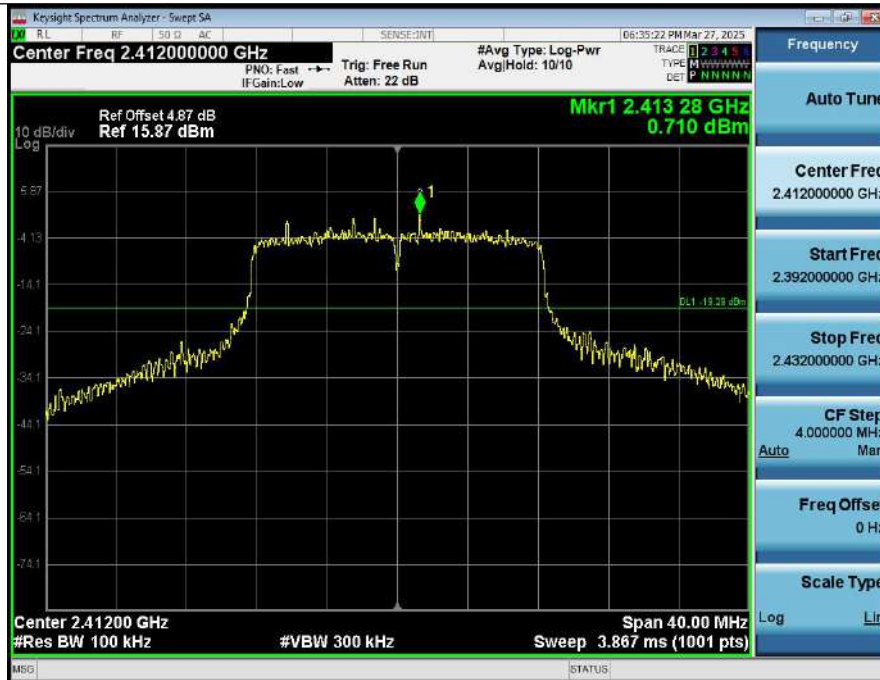
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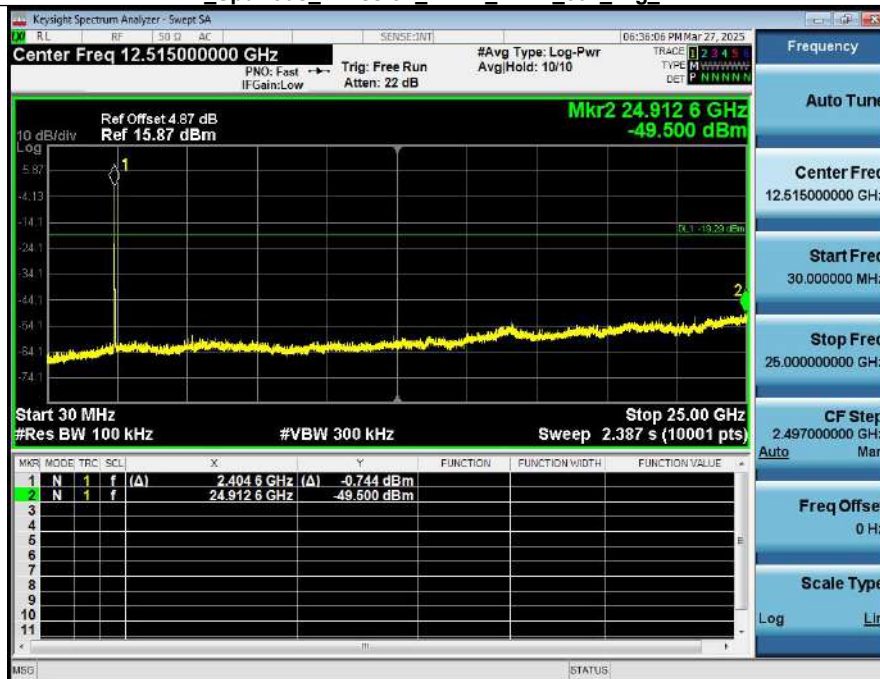
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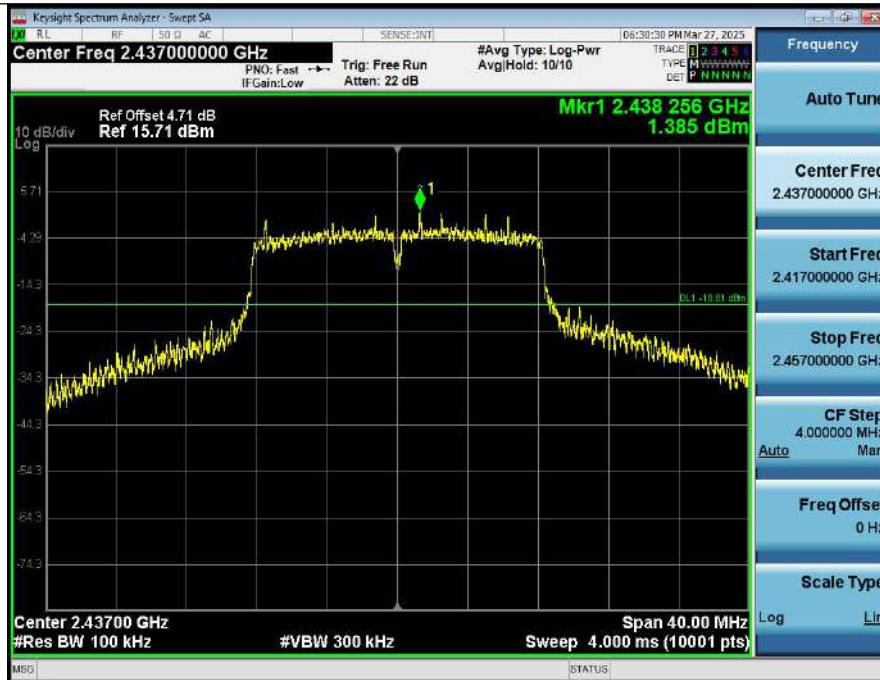
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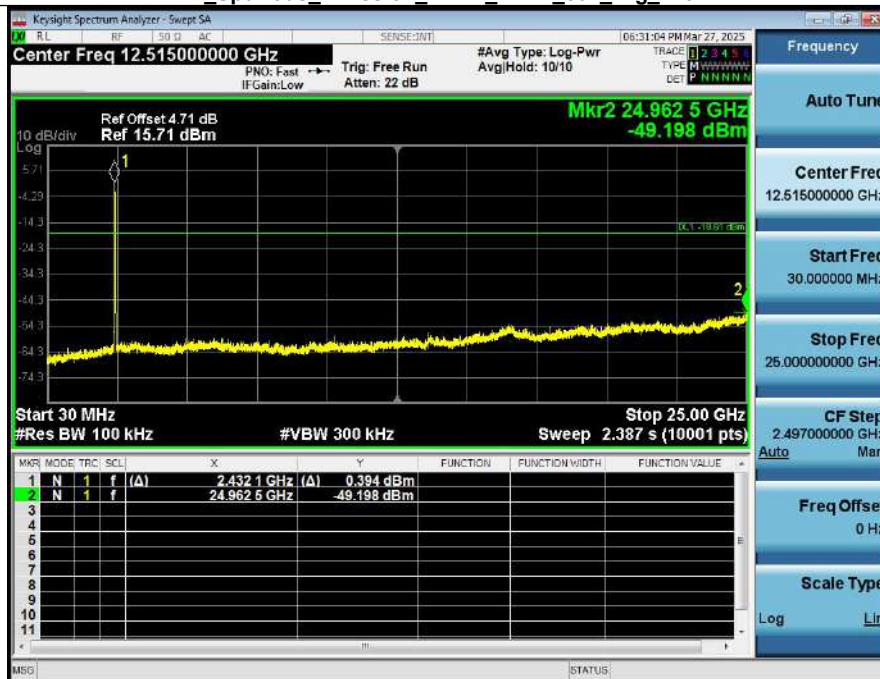
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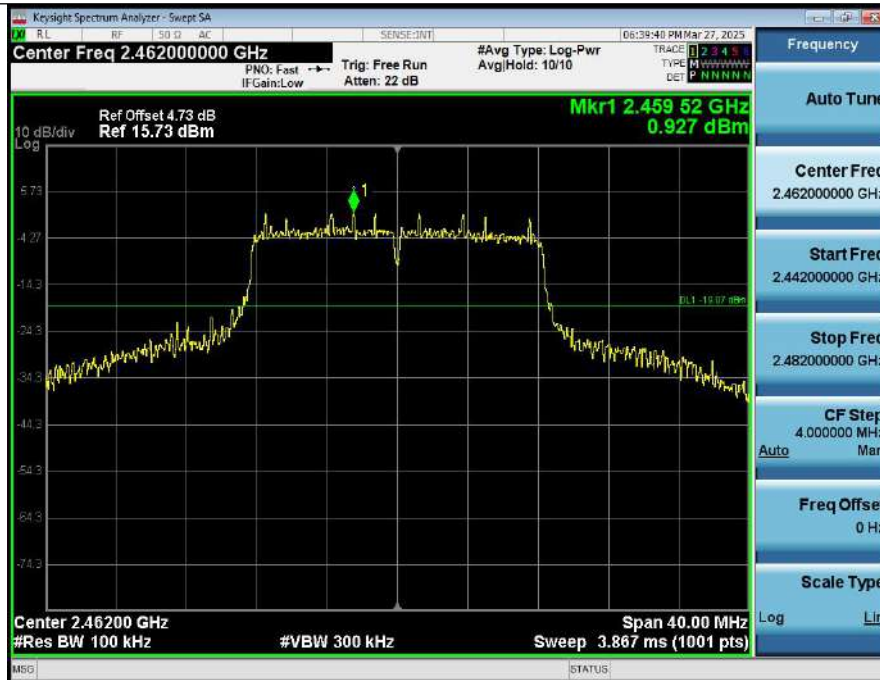
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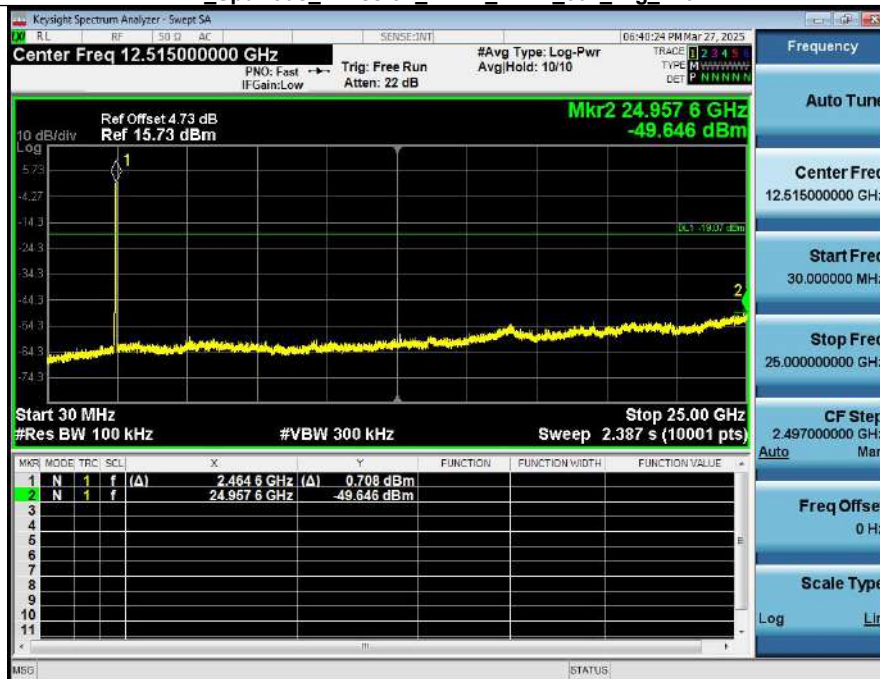
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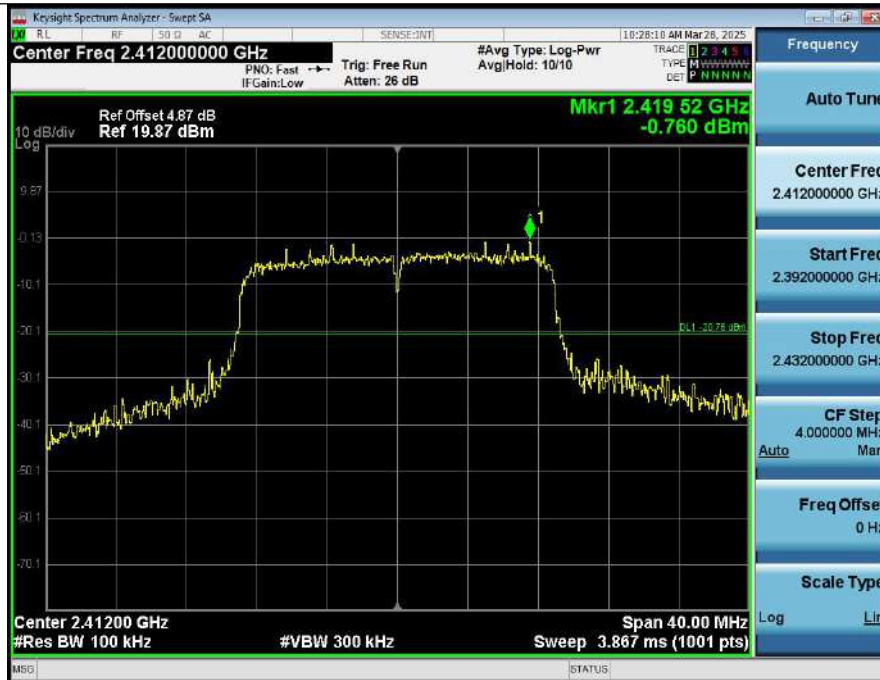
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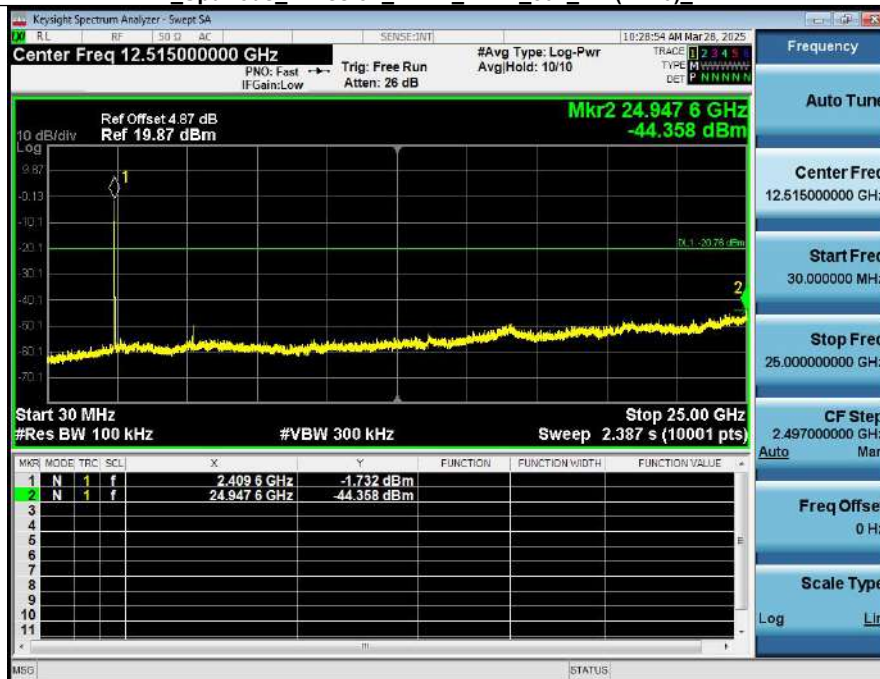
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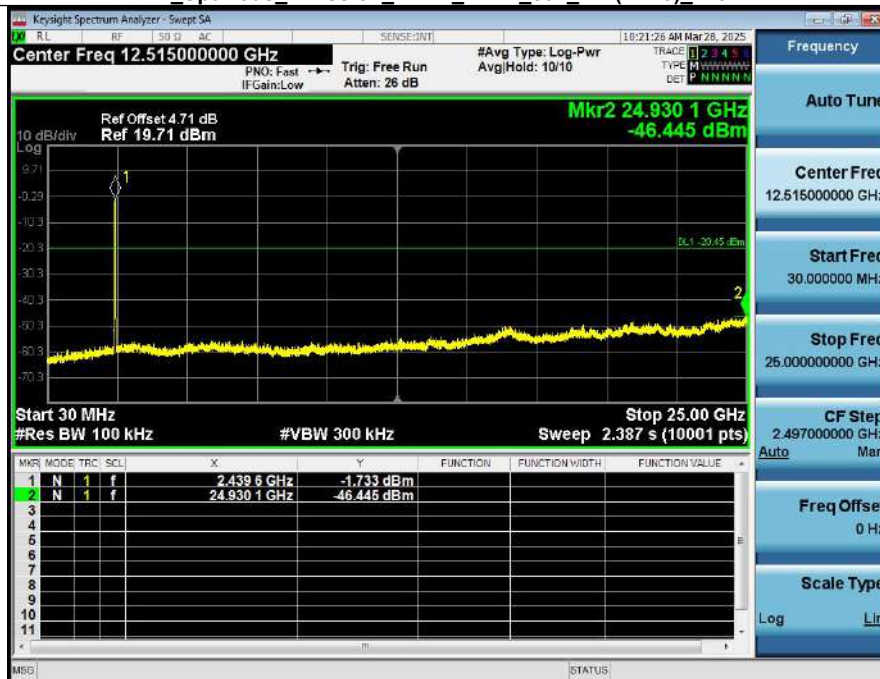
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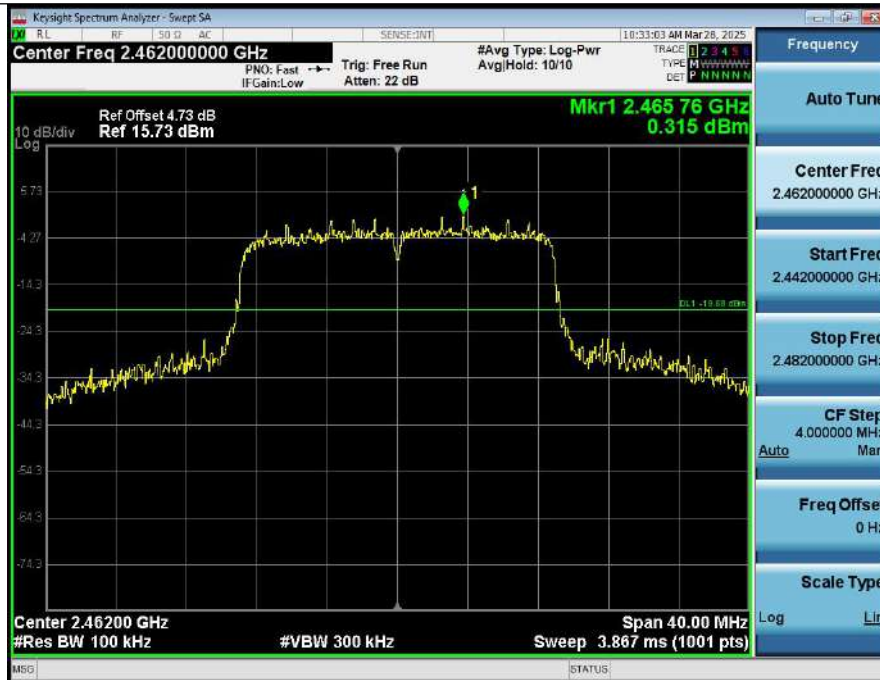
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2 Spurious Emission_NVNT_ANT1_802_11n(HT20)_2437



1 Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2 Spurious Emission_NVNT_ANT1_802_11n(HT20)_2462

