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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	8.59	500	Pass
NVNT	ANT1	802.11b	2437.00	8.09	500	Pass
NVNT	ANT1	802.11b	2462.00	8.11	500	Pass
NVNT	ANT1	802.11g	2412.00	16.24	500	Pass
NVNT	ANT1	802.11g	2437.00	14.20	500	Pass
NVNT	ANT1	802.11g	2462.00	16.21	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.48	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	15.10	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.66	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

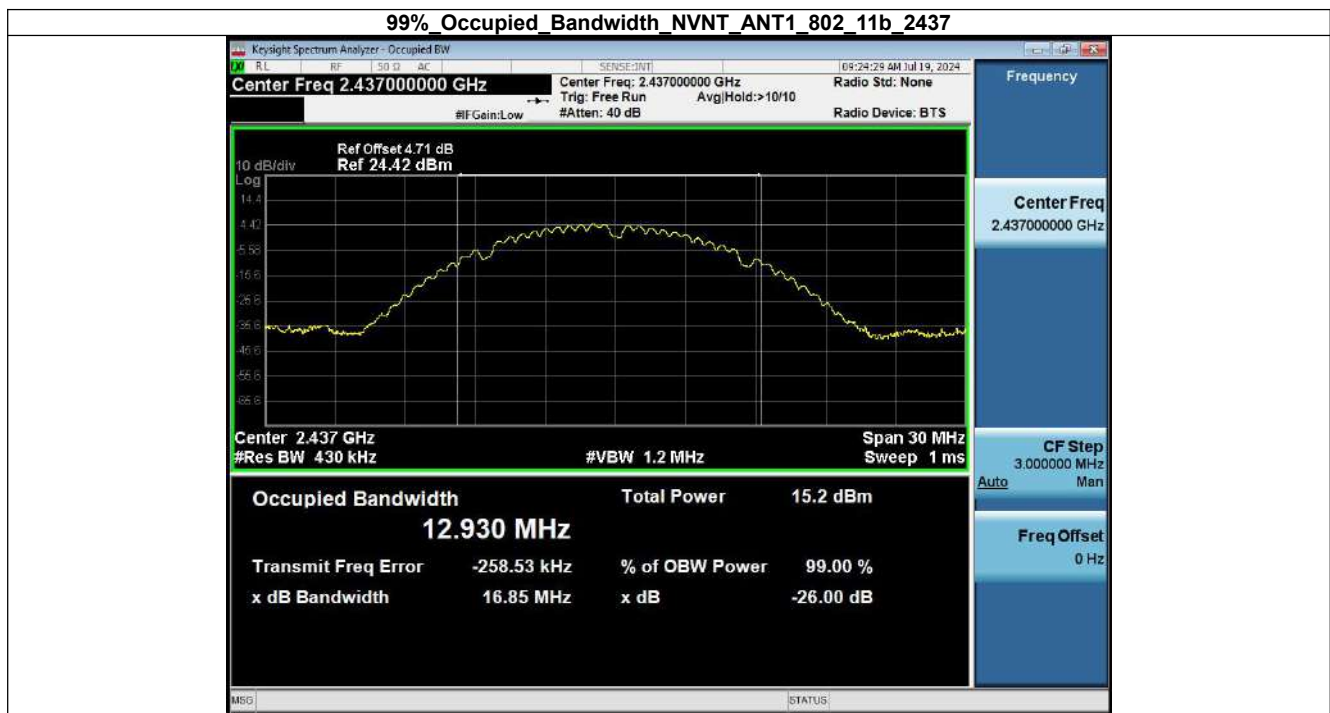


-6dB Bandwidth NVNT_ANT1 802_11n(HT20) 2462



2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW(MHz)
NVNT	ANT1	802.11b	2412.00	13.630
NVNT	ANT1	802.11b	2437.00	12.930
NVNT	ANT1	802.11b	2462.00	13.462
NVNT	ANT1	802.11g	2412.00	17.431
NVNT	ANT1	802.11g	2437.00	16.918
NVNT	ANT1	802.11g	2462.00	17.216
NVNT	ANT1	802.11n(HT20)	2412.00	18.271
NVNT	ANT1	802.11n(HT20)	2437.00	17.958
NVNT	ANT1	802.11n(HT20)	2462.00	18.094



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

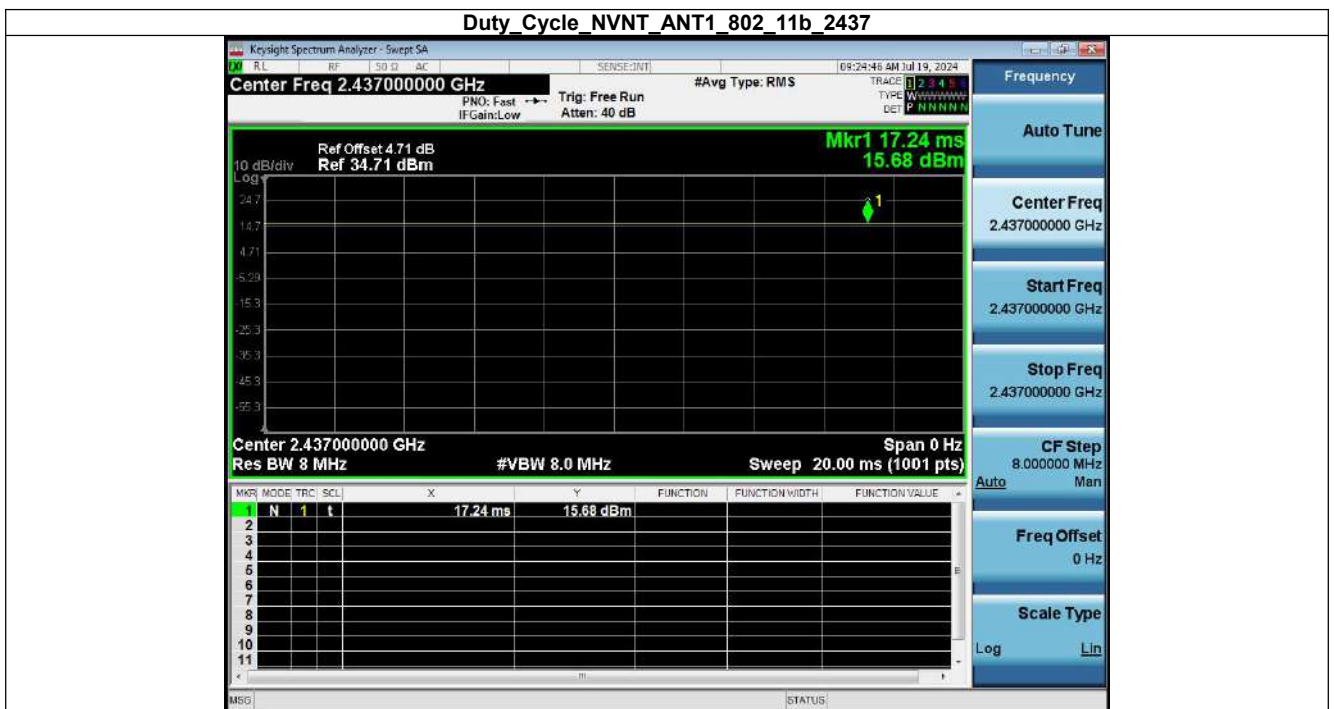


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



3. Duty Cycle

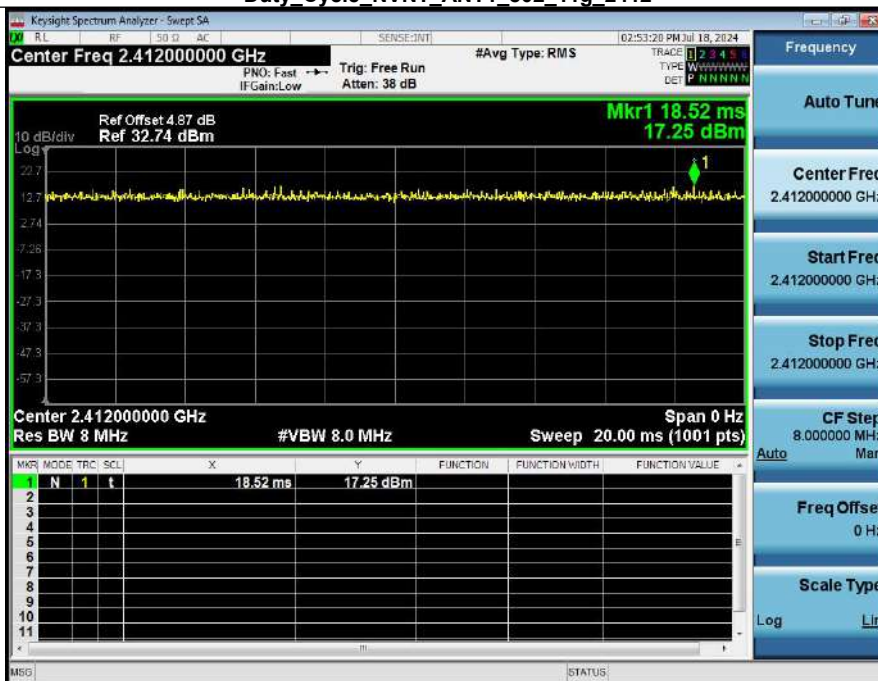
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	100	0.00
NVNT	ANT1	802.11b	2437.00	100	0.00
NVNT	ANT1	802.11b	2462.00	100	0.00
NVNT	ANT1	802.11g	2412.00	100	0.00
NVNT	ANT1	802.11g	2437.00	100	0.00
NVNT	ANT1	802.11g	2462.00	100	0.00
NVNT	ANT1	802.11n(HT20)	2412.00	100	0.00
NVNT	ANT1	802.11n(HT20)	2437.00	100	0.00
NVNT	ANT1	802.11n(HT20)	2462.00	100	0.00



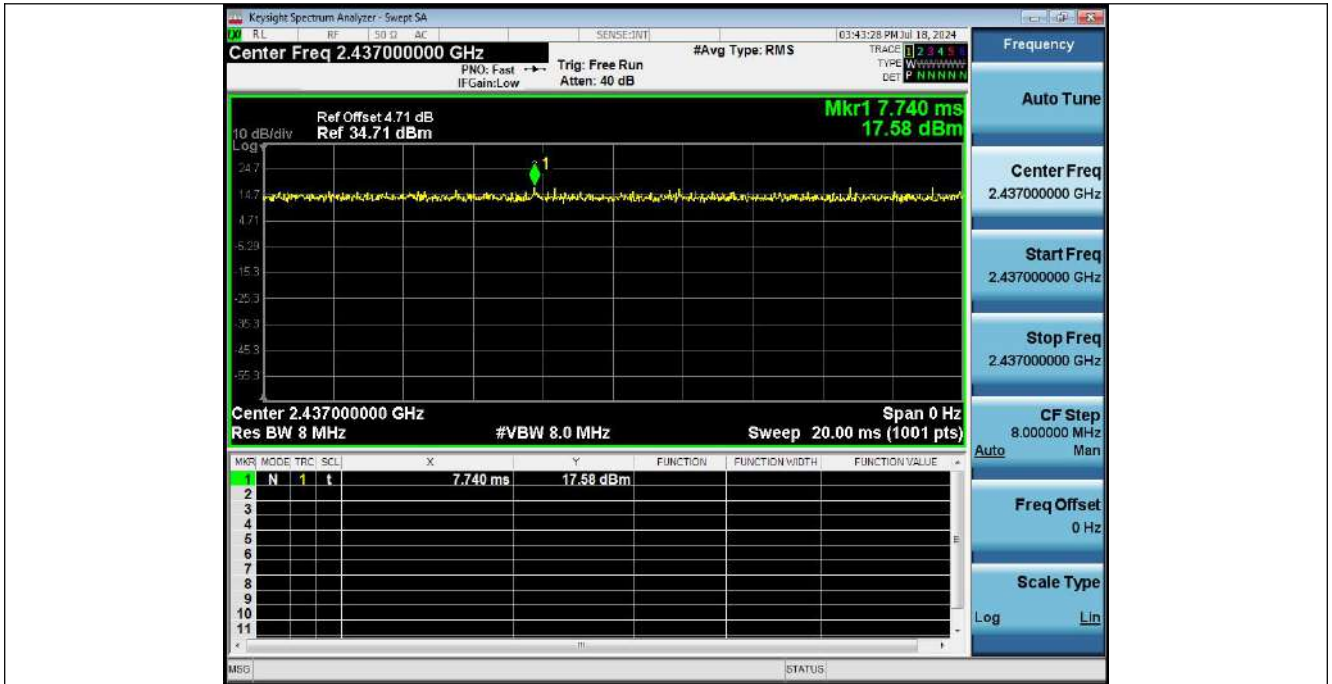
Duty Cycle NVNT_ANT1_802_11b_2462



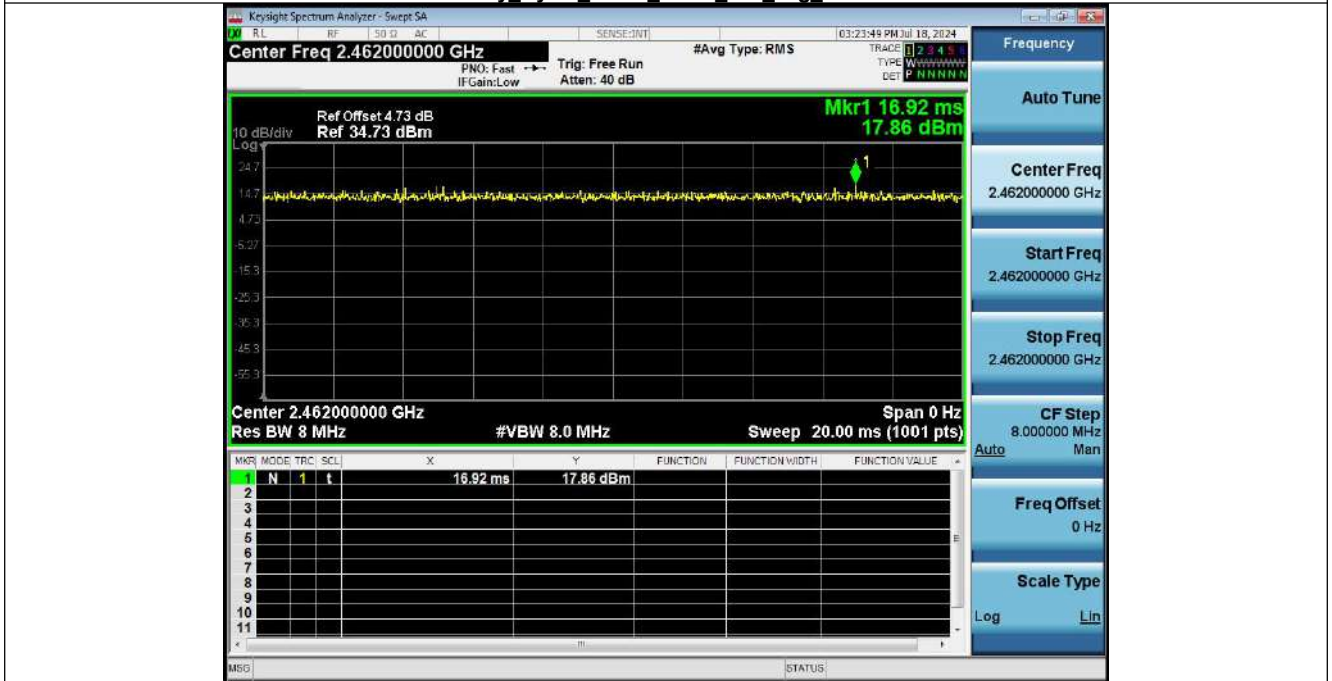
Duty Cycle NVNT_ANT1_802_11g_2412



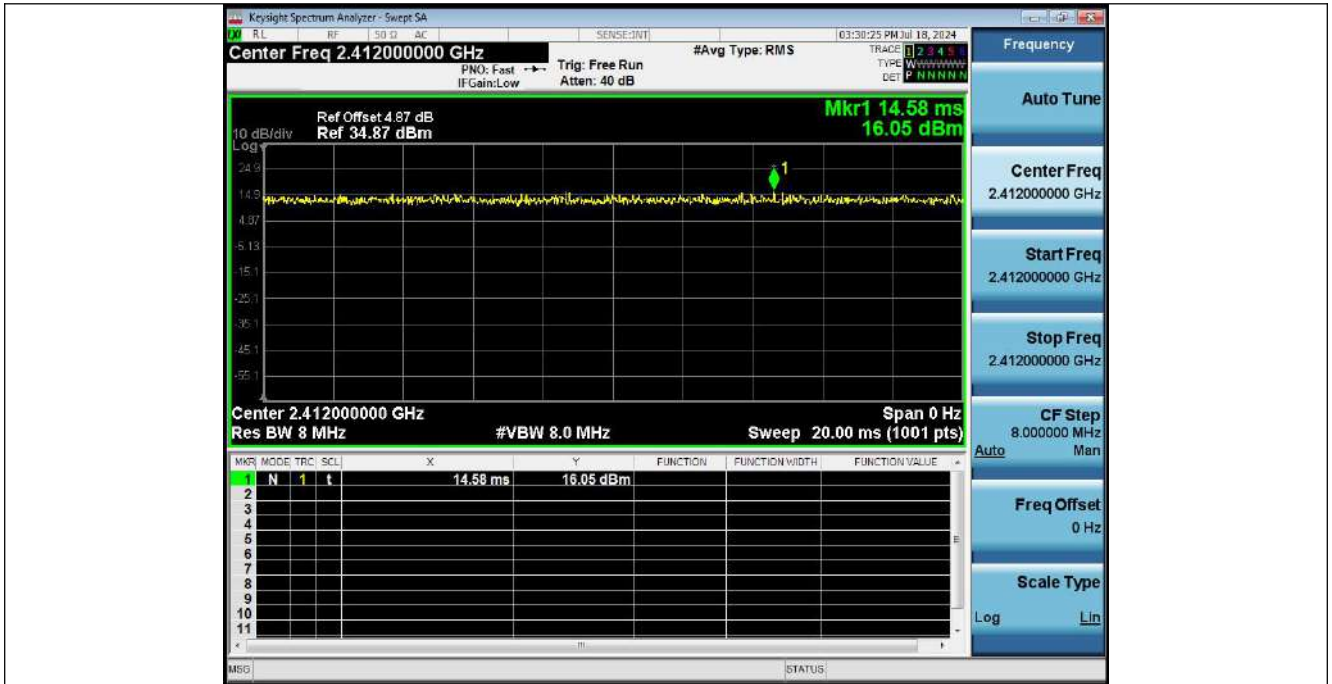
Duty Cycle NVNT_ANT1_802_11g_2437



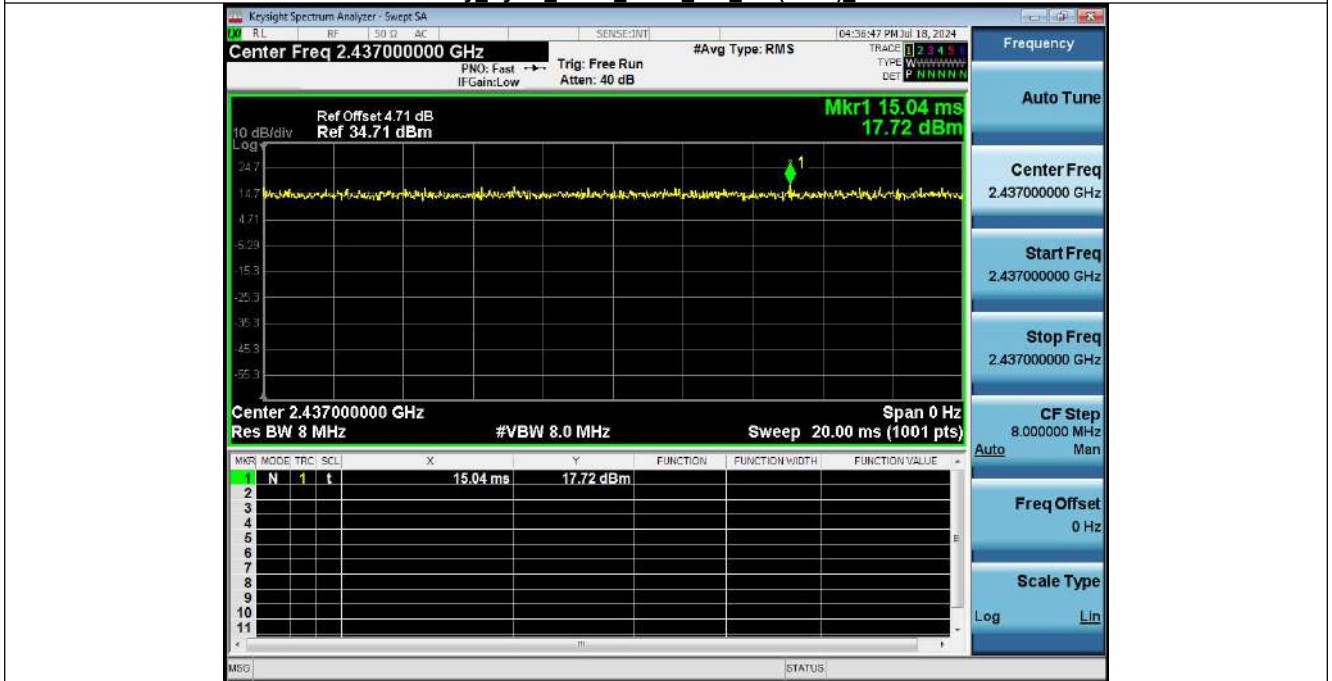
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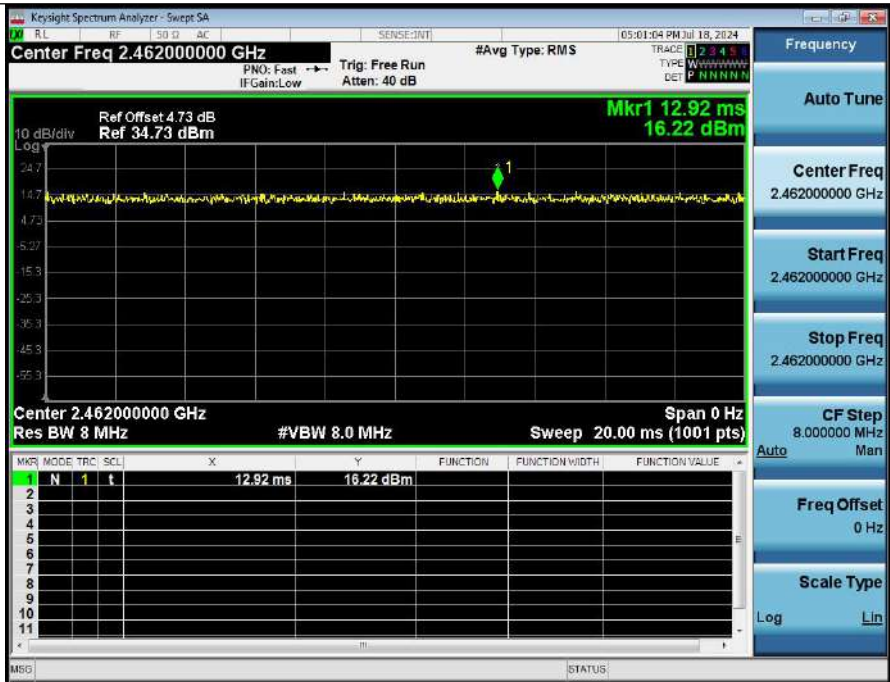
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



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	15.98	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	15.09	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	15.79	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	16.45	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	16.84	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	16.71	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	16.35	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	17.66	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	16.56	30	Pass

5. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/30kHz)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	1.36	-10.00	-8.64	8	Pass
NVNT	ANT1	802.11b	2437.00	0.23	-10.00	-9.77	8	Pass
NVNT	ANT1	802.11b	2462.00	1.05	-10.00	-8.95	8	Pass
NVNT	ANT1	802.11g	2412.00	-6.60	-10.00	-16.60	8	Pass
NVNT	ANT1	802.11g	2437.00	-5.65	-10.00	-15.65	8	Pass
NVNT	ANT1	802.11g	2462.00	-6.28	-10.00	-16.28	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-6.73	-10.00	-16.73	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-5.21	-10.00	-15.21	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-6.70	-10.00	-16.70	8	Pass



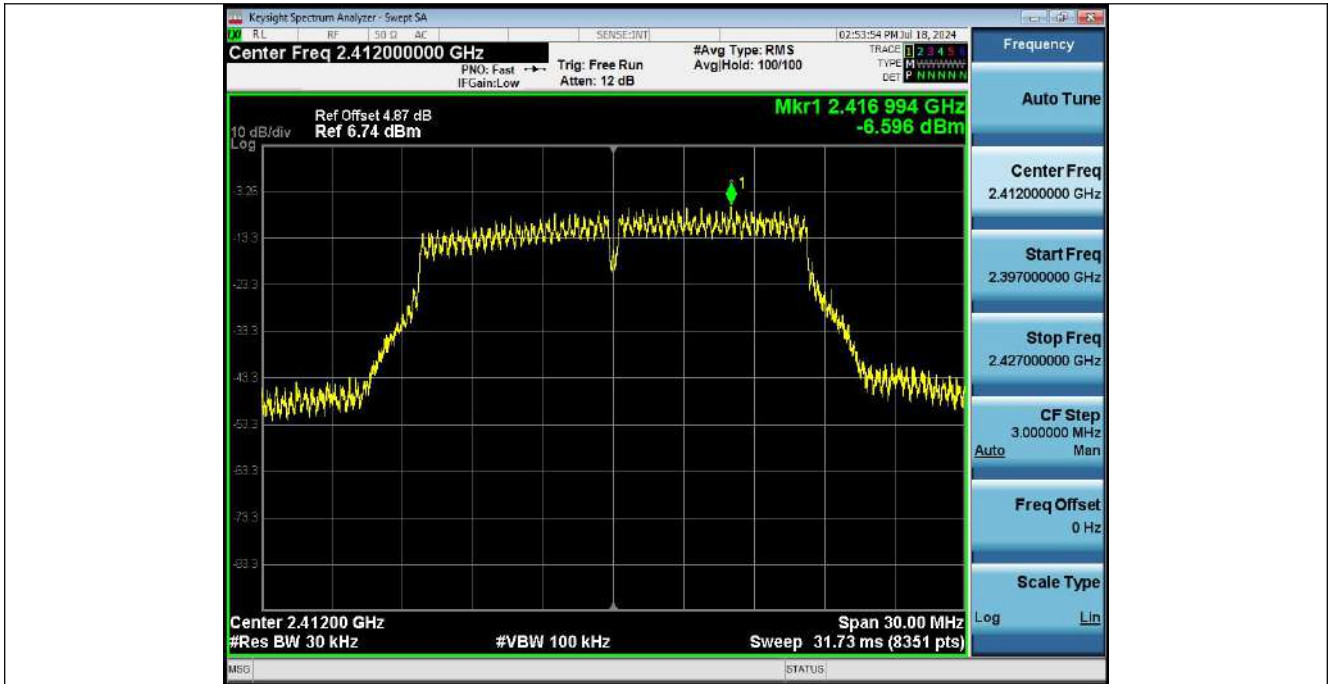
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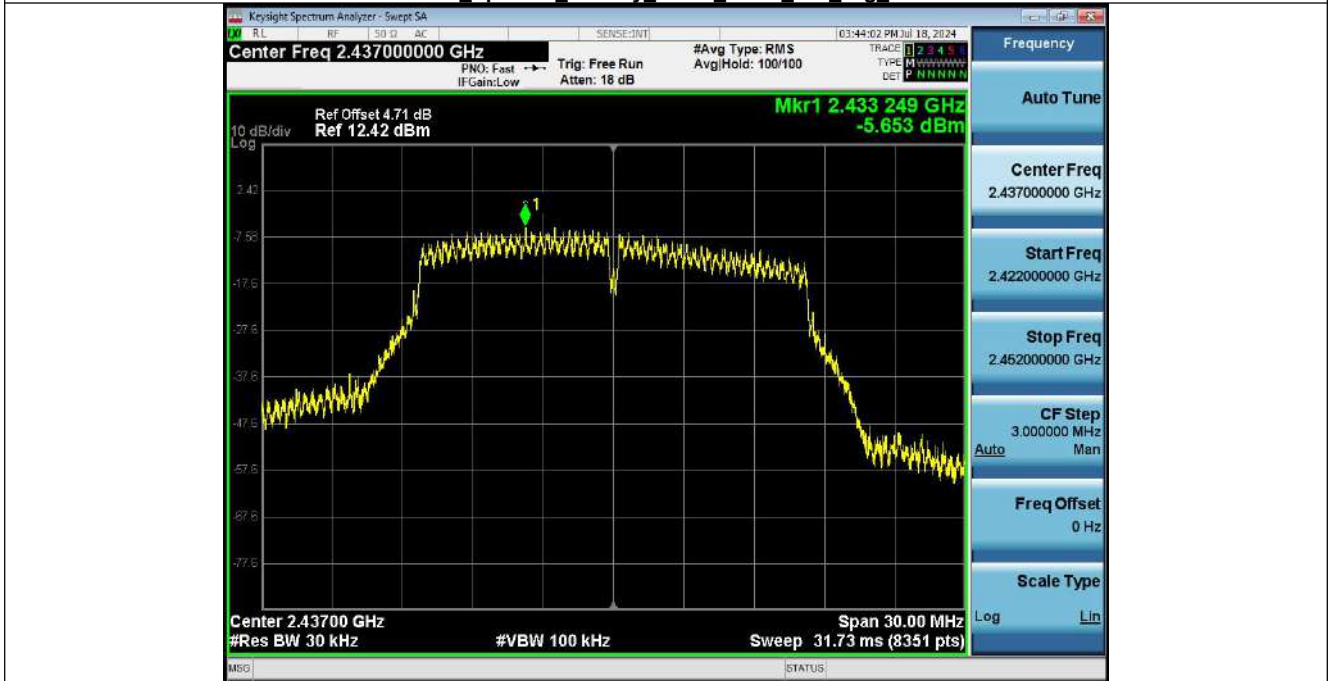
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Power_Spectral_Density_NVNT_ANT1_802_11g_2412



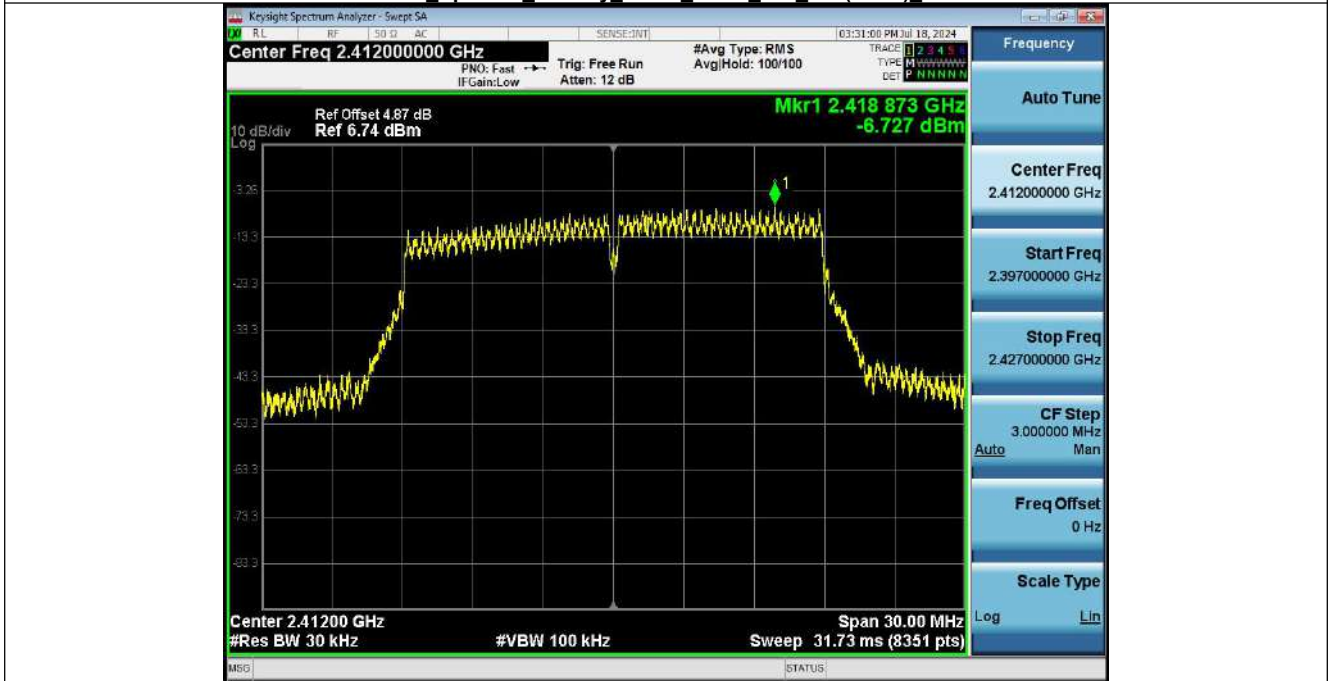
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Power_Spectral_Density_NVNT_ANT1_802_11g_2462



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_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2397.024	-35.841	-15.519	Pass
NVNT	ANT1	802.11b	2462.00	2483.776	-58.018	-15.920	Pass
NVNT	ANT1	802.11g	2412.00	2399.600	-39.386	-24.480	Pass
NVNT	ANT1	802.11g	2462.00	2483.872	-56.171	-24.516	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.488	-39.956	-24.700	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.872	-53.532	-24.619	Pass

1 Reference Level NVNT_ANT1_802_11b_2412



2 Bandedge_NVNT_ANT1_802_11b_2412



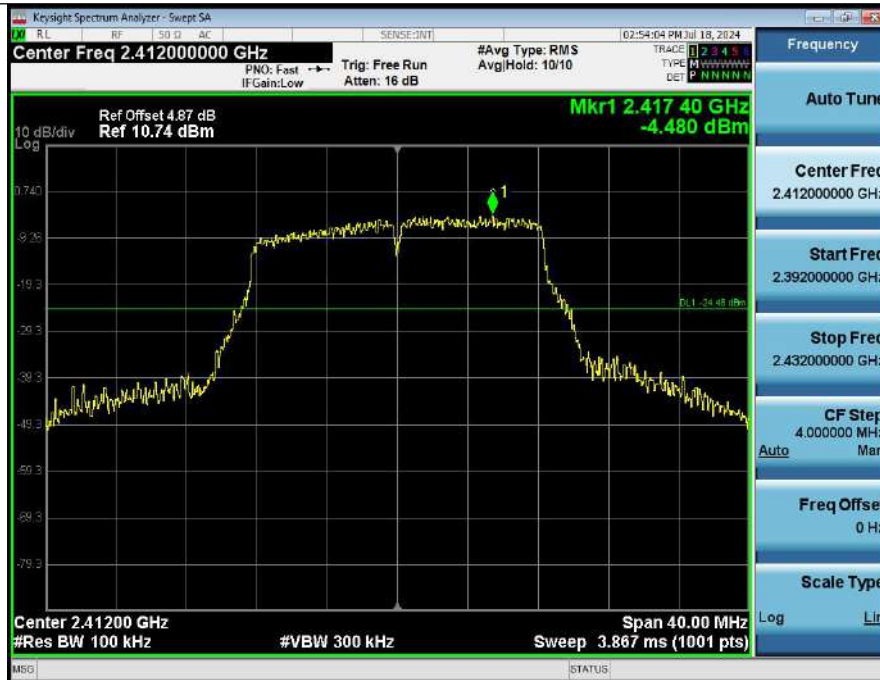
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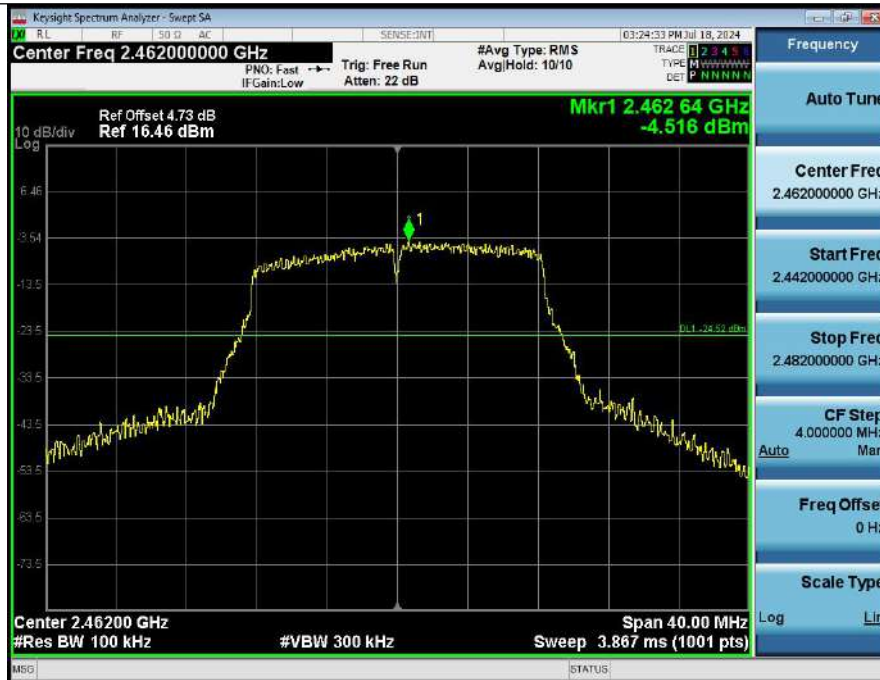
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2_Bandedge_NVNT_ANT1_802_11g_2412



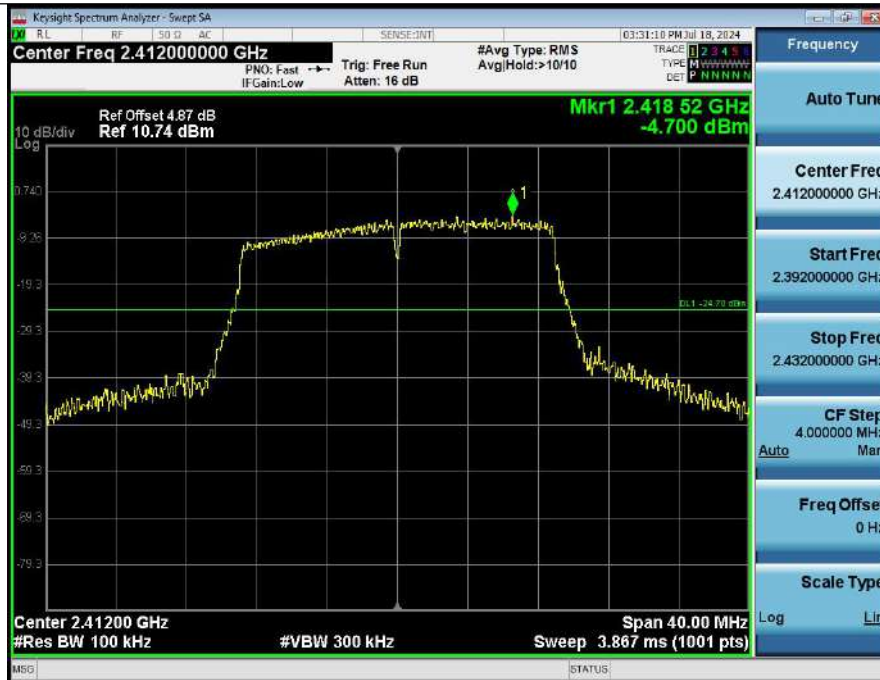
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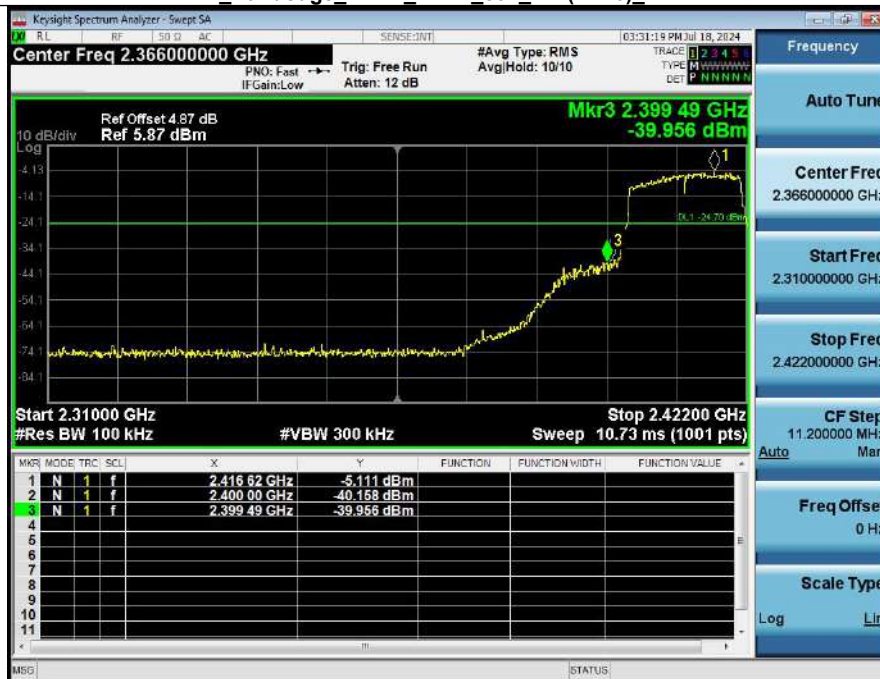
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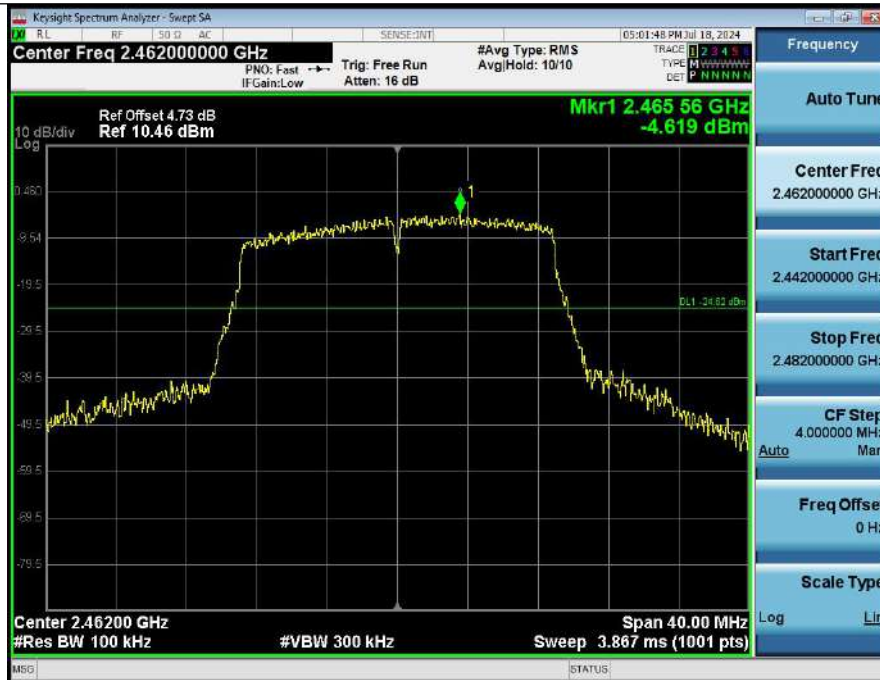
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2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462



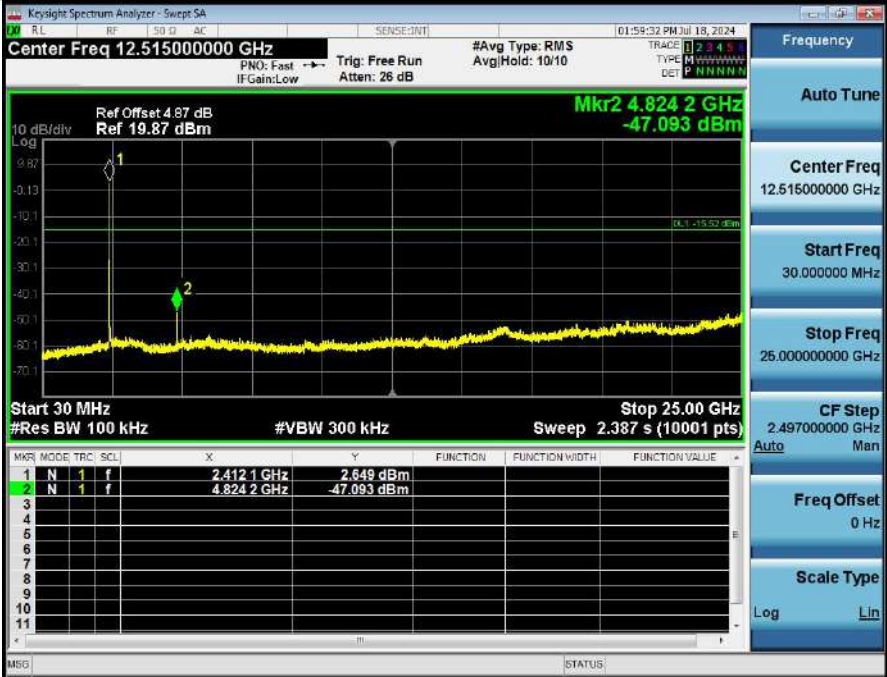
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	4824.240	-47.093	-15.519	Pass
NVNT	ANT1	802.11b	2437.00	4874.180	-53.928	-16.116	Pass
NVNT	ANT1	802.11b	2462.00	4924.120	-49.323	-15.920	Pass
NVNT	ANT1	802.11g	2412.00	24932.581	-61.453	-24.480	Pass
NVNT	ANT1	802.11g	2437.00	24997.503	-55.398	-23.884	Pass
NVNT	ANT1	802.11g	2462.00	24890.132	-55.446	-24.516	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24992.509	-62.266	-24.700	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24940.072	-60.128	-22.622	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24952.557	-61.895	-24.619	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412



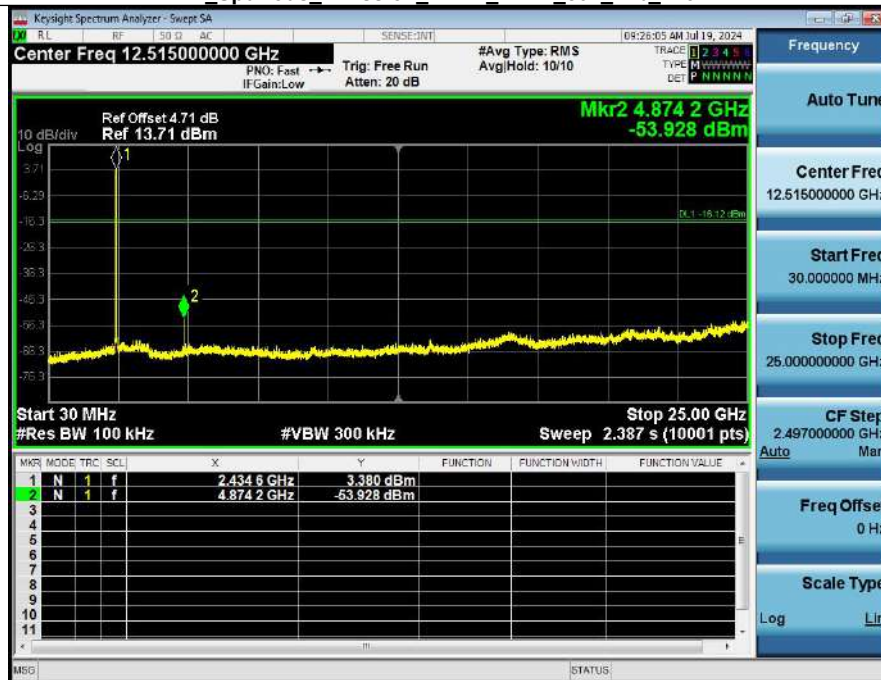
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1 Reference Level NVNT_ANT1_802_11b_2437



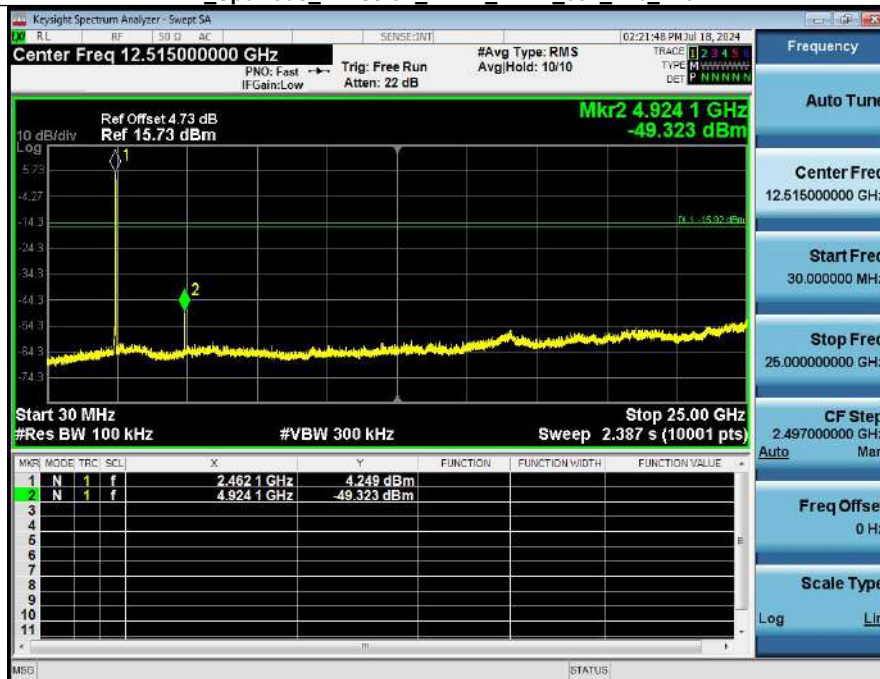
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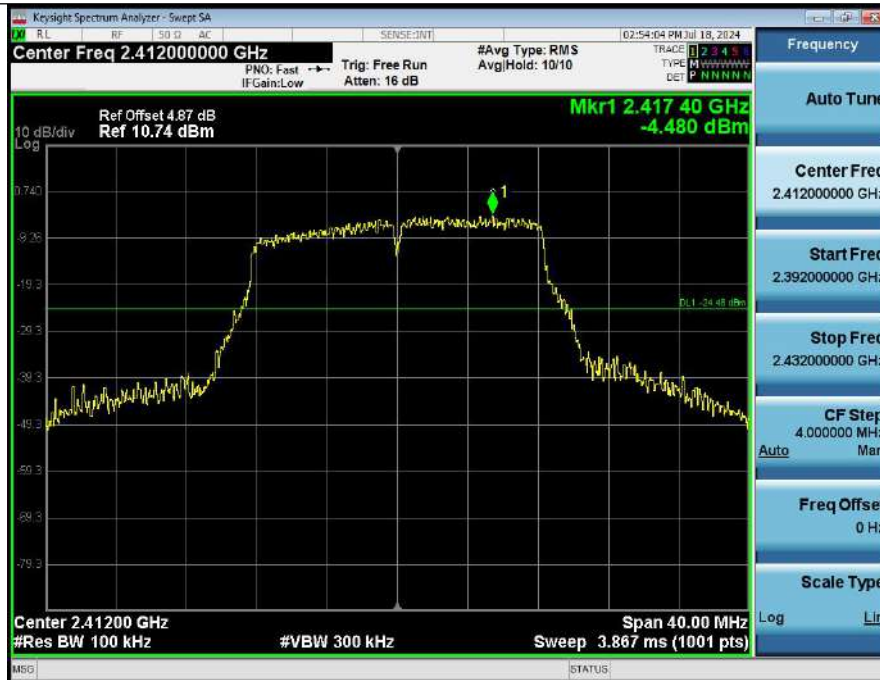
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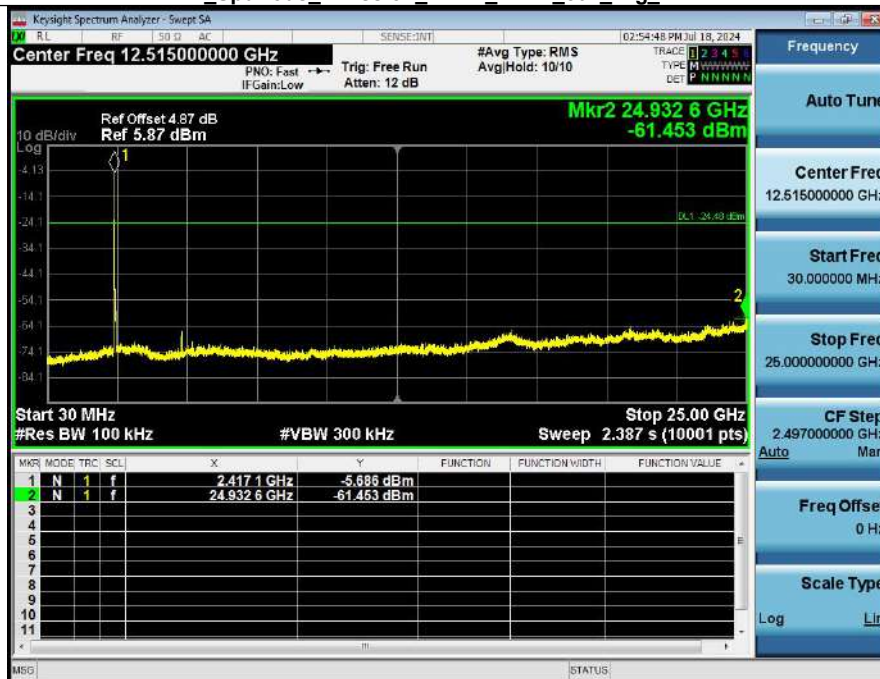
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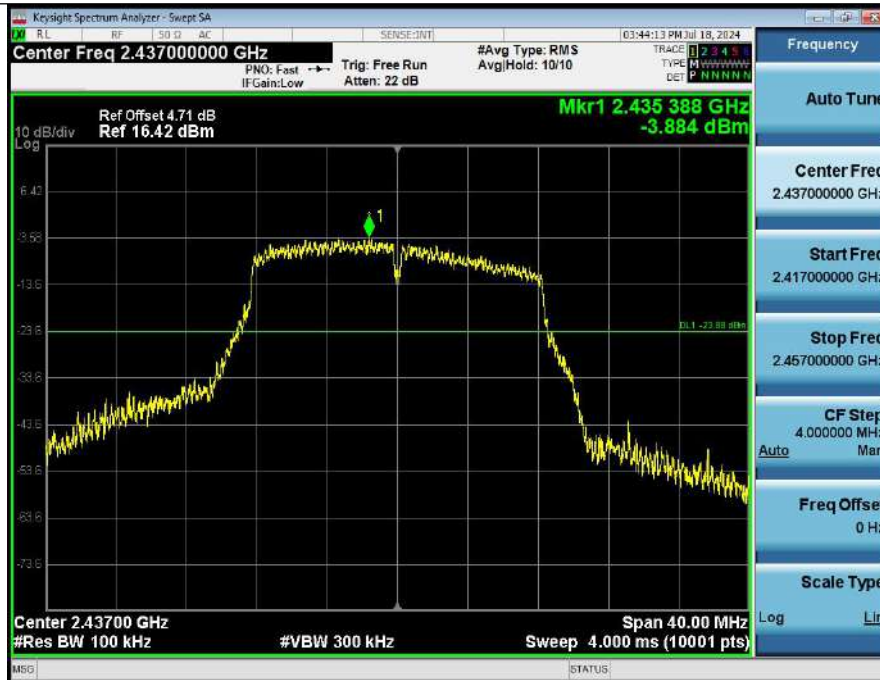
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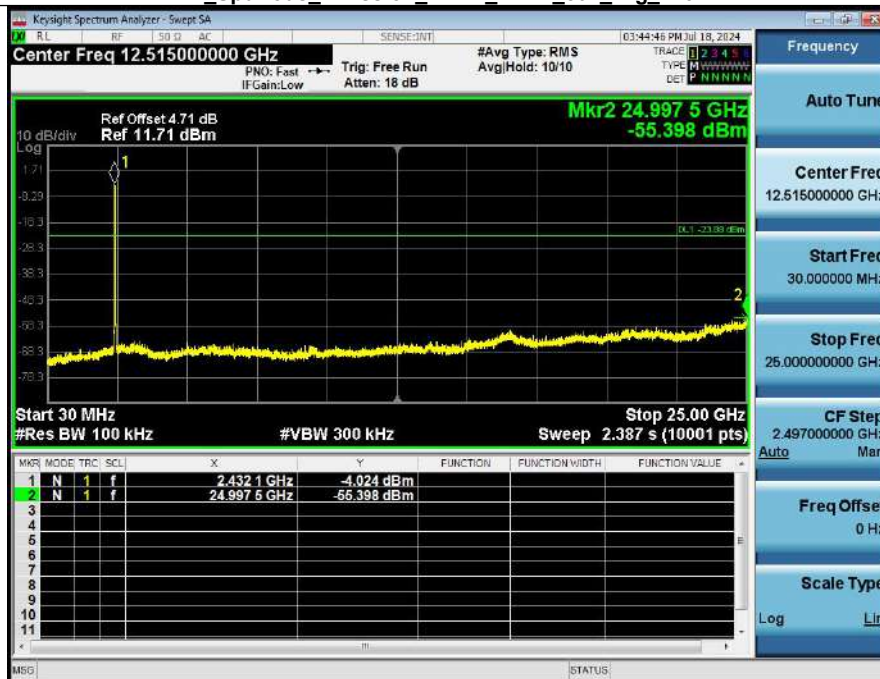
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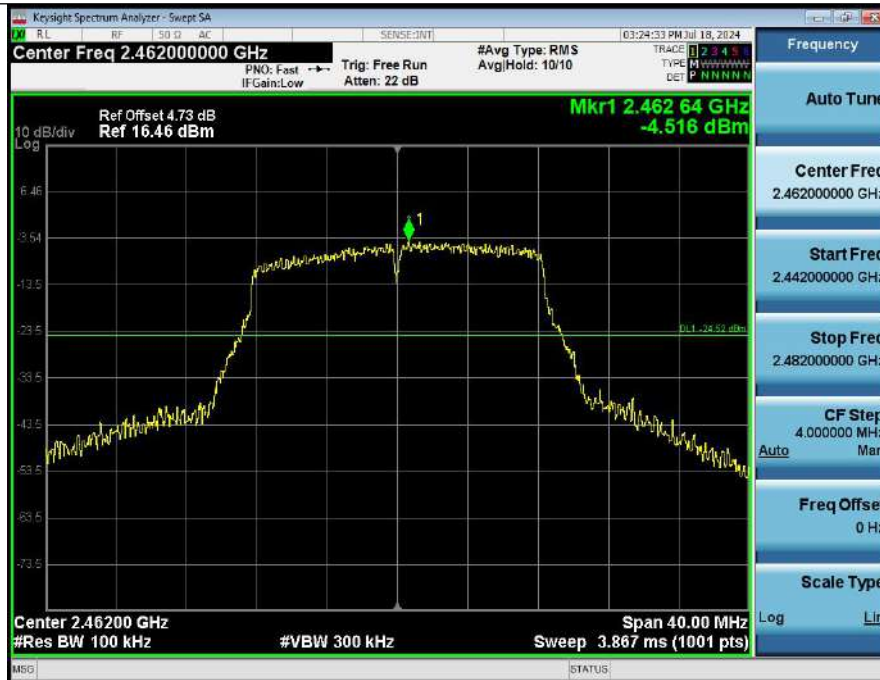
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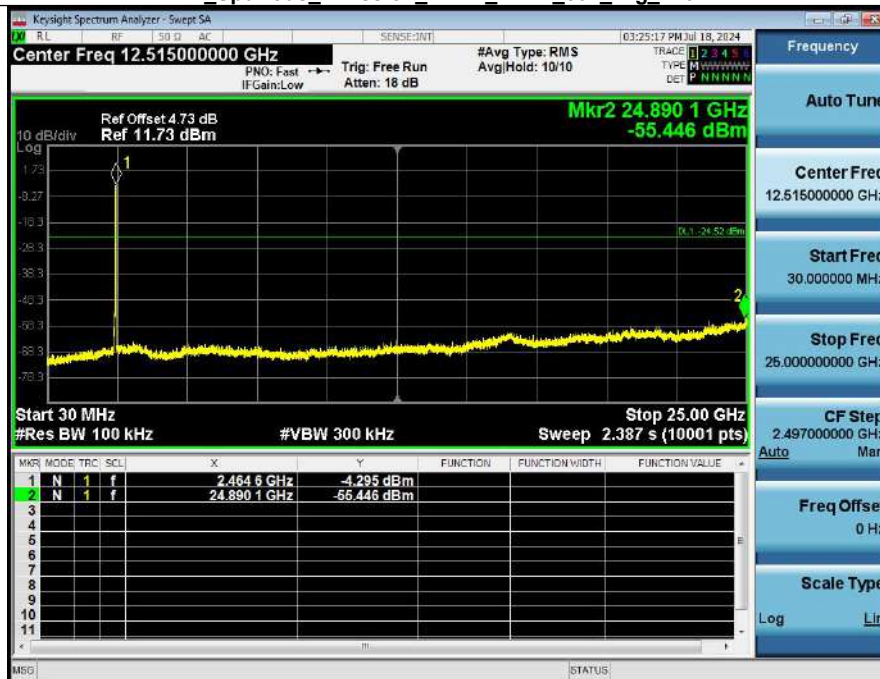
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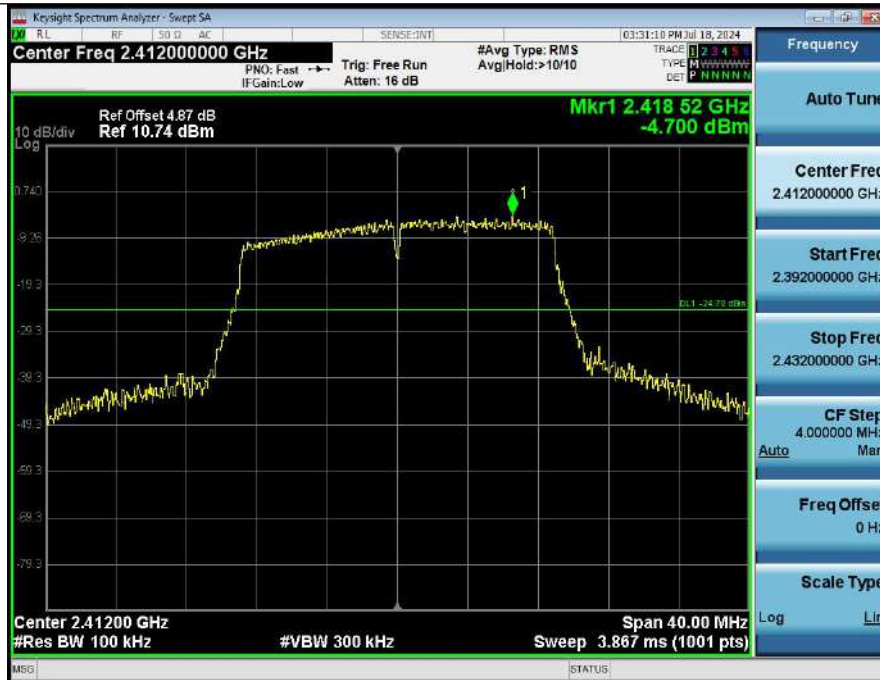
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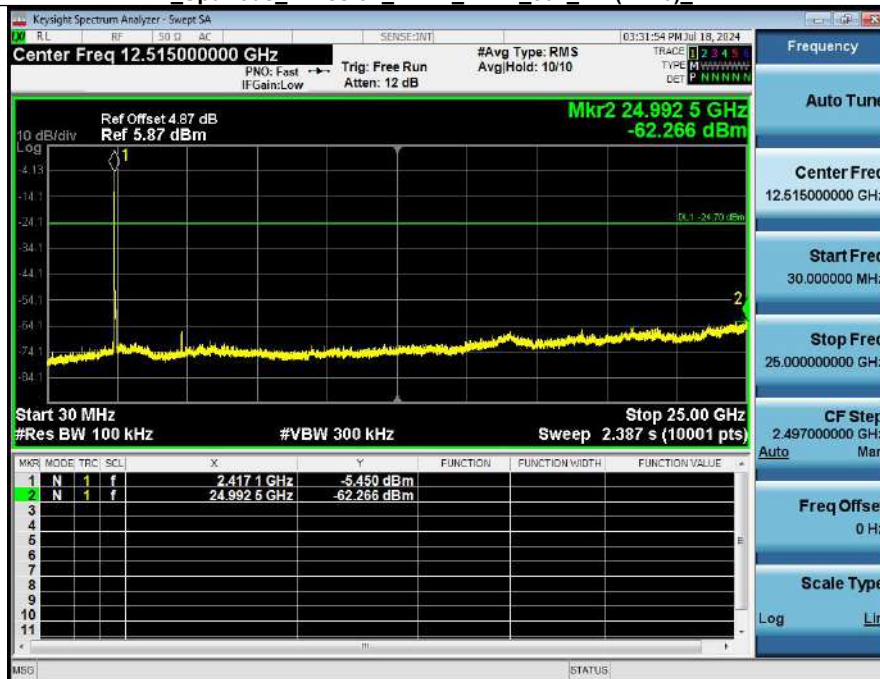
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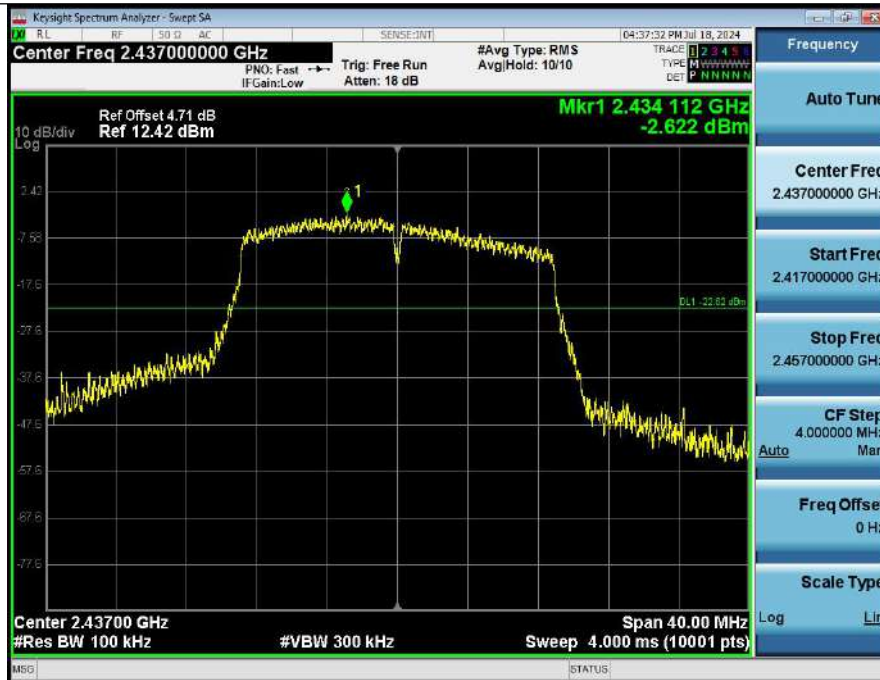
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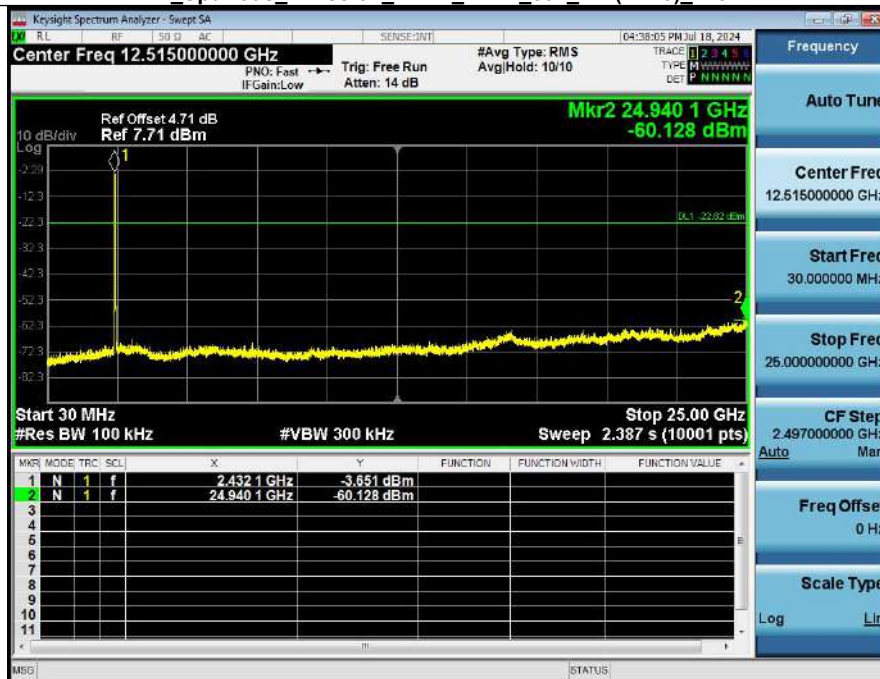
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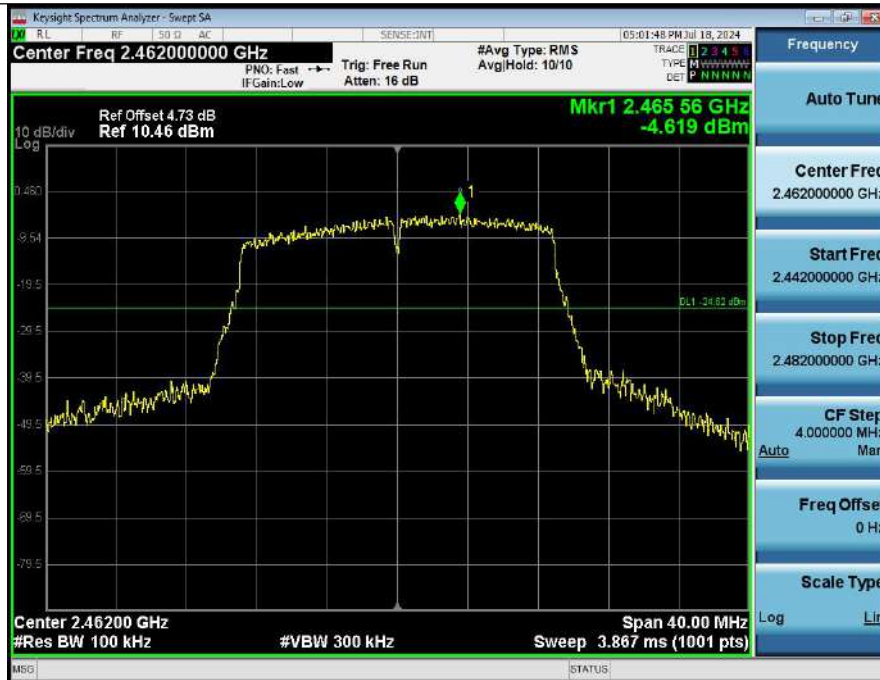
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2 Spurious Emission_NVNT_ANT1_802_11n(HT20)_2437



1 Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2 Spurious Emission_NVNT_ANT1_802_11n(HT20)_2462

