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FCC ID&IC ID WIFI2.4

Part15.247&RSS-247 Test Data

1. -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	8.60	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	16.48	500	Pass
NVNT	ANT1	802.11g	2437.00	15.38	500	Pass
NVNT	ANT1	802.11g	2462.00	16.42	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.72	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	15.96	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.67	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

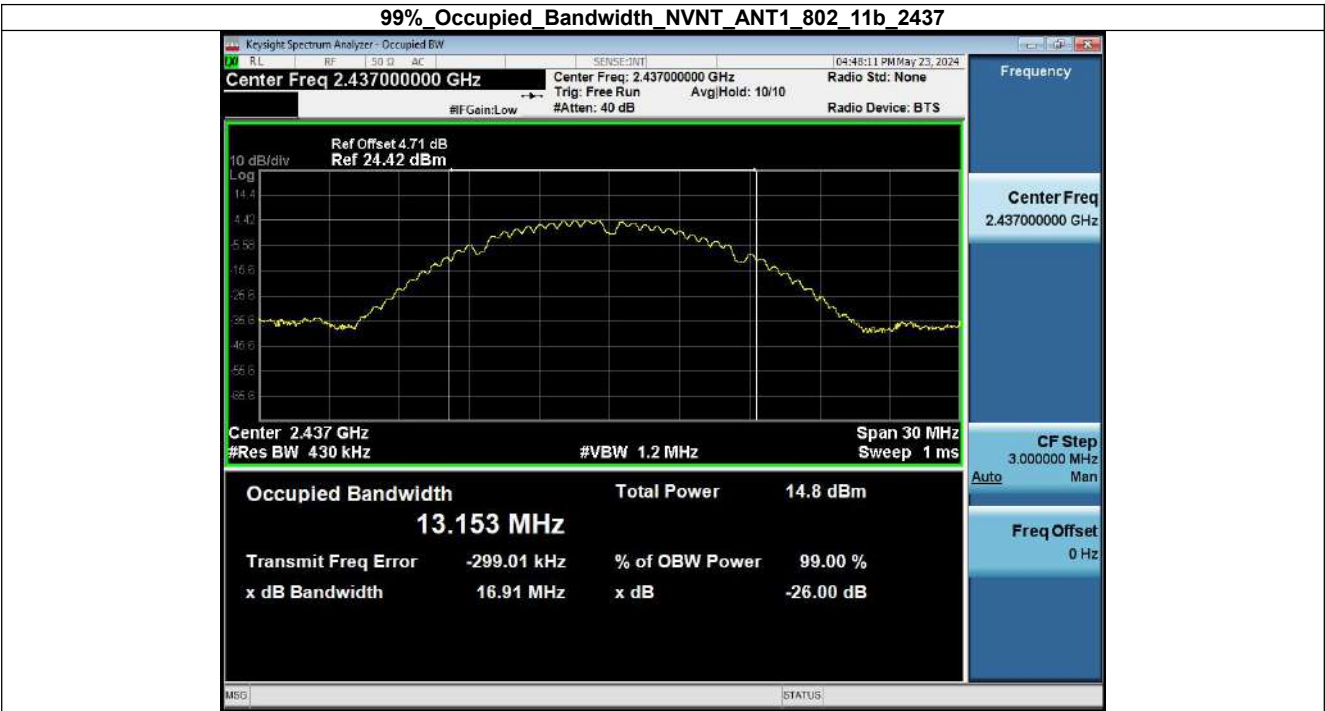
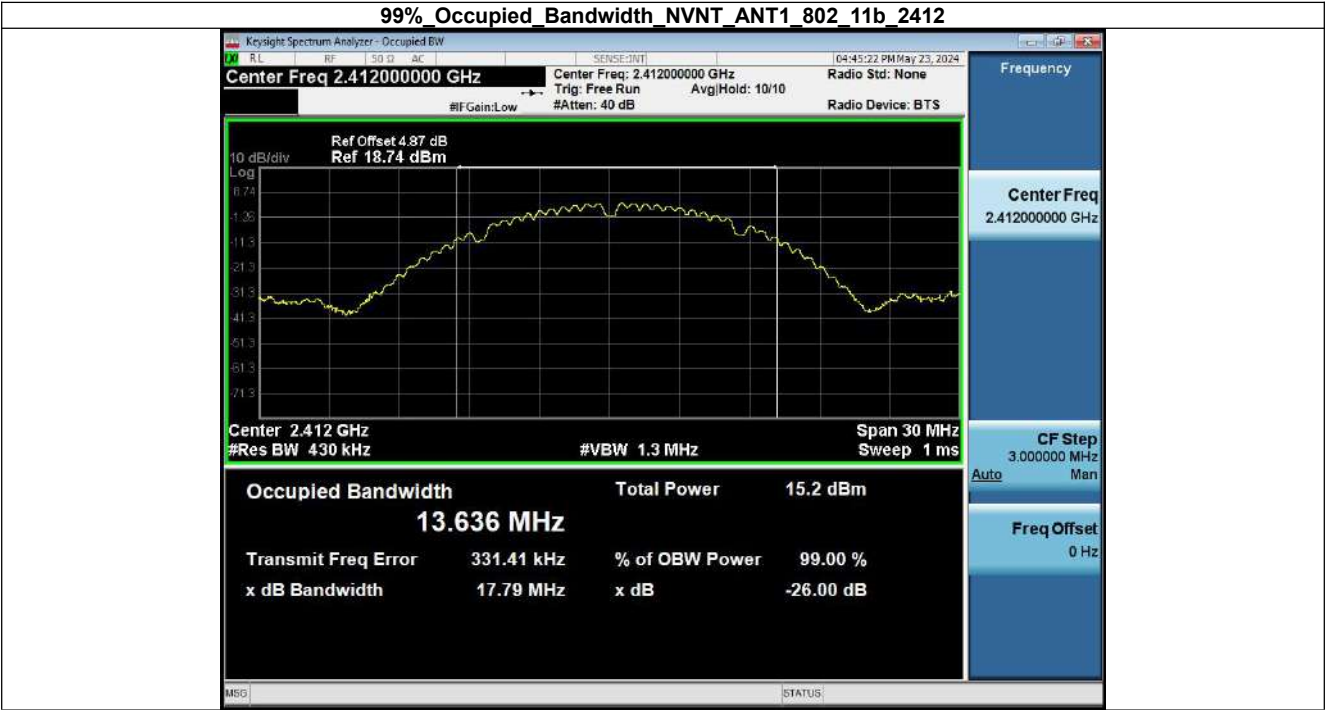


-6dB Bandwidth NVNT_ANT1_802_11n(HT20)_2462



2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW(MHz)
NVNT	ANT1	802.11b	2412.00	13.636
NVNT	ANT1	802.11b	2437.00	13.153
NVNT	ANT1	802.11b	2462.00	13.486
NVNT	ANT1	802.11g	2412.00	17.460
NVNT	ANT1	802.11g	2437.00	17.498
NVNT	ANT1	802.11g	2462.00	17.241
NVNT	ANT1	802.11n(HT20)	2412.00	18.251
NVNT	ANT1	802.11n(HT20)	2437.00	18.166
NVNT	ANT1	802.11n(HT20)	2462.00	18.142



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

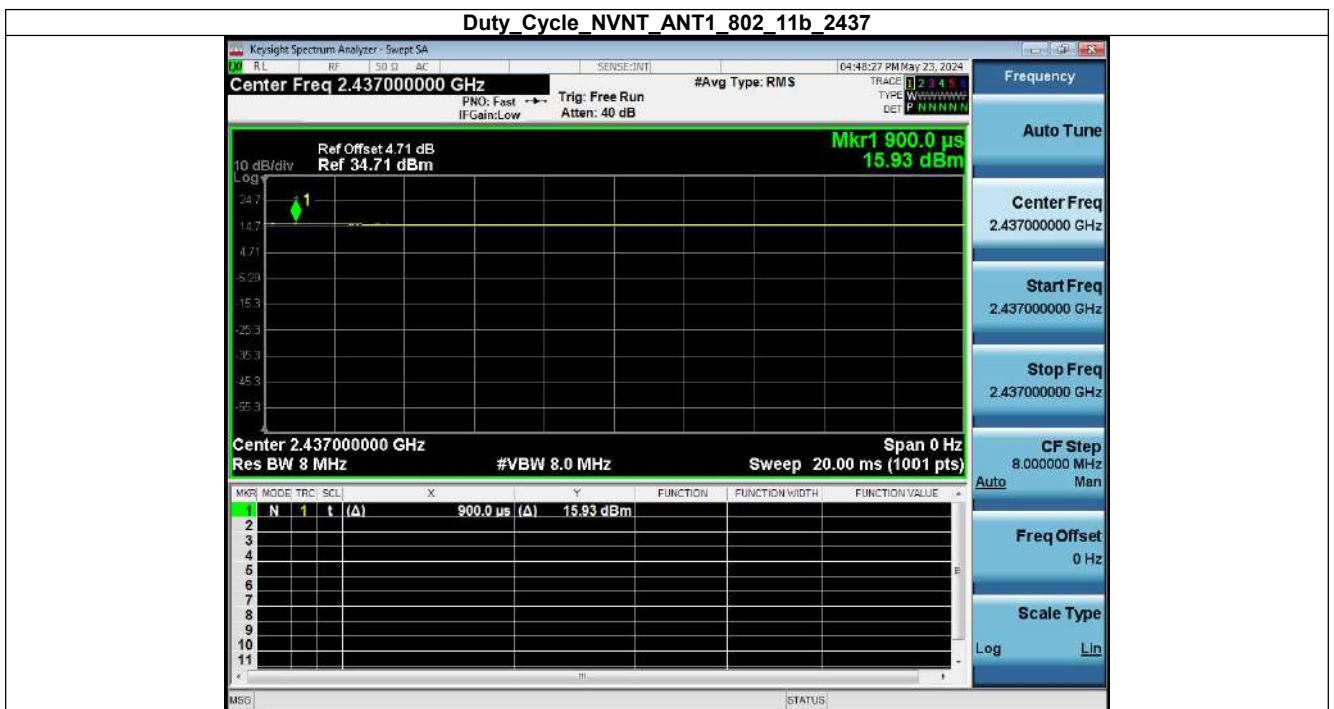
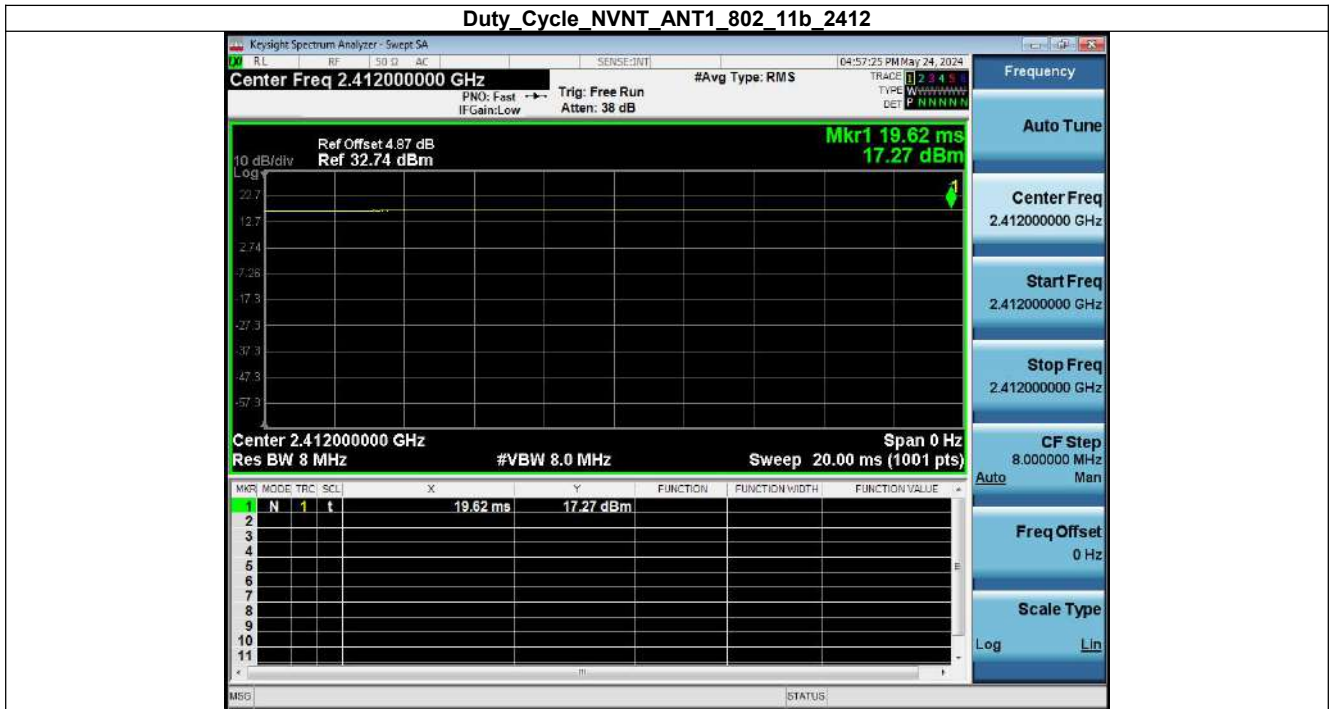


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



3. Duty Cycle

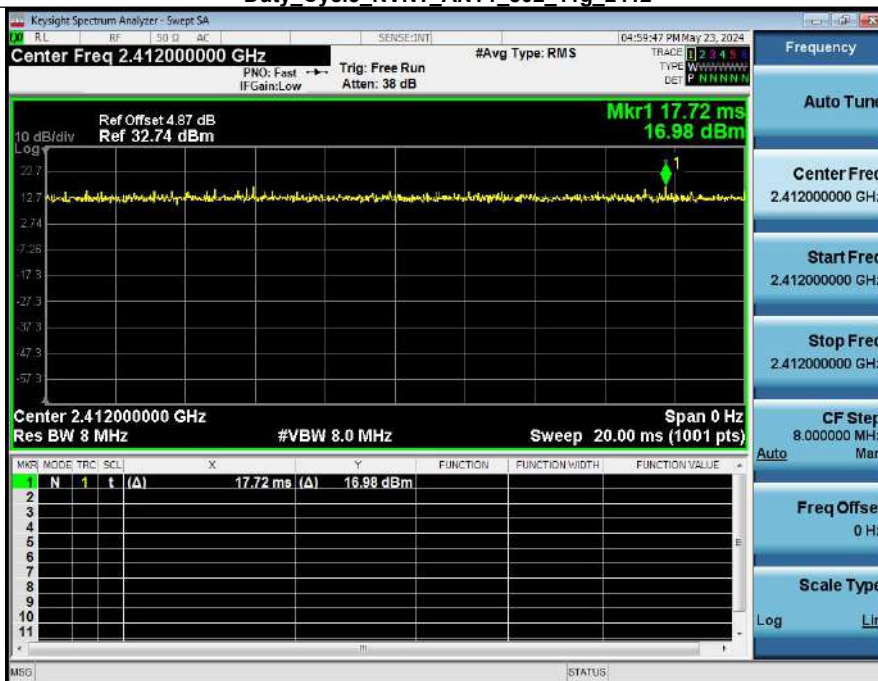
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	100	0.00
NVNT	ANT1	802.11b	2437.00	100	0.00
NVNT	ANT1	802.11b	2462.00	100	0.00
NVNT	ANT1	802.11g	2412.00	100	0.00
NVNT	ANT1	802.11g	2437.00	100	0.00
NVNT	ANT1	802.11g	2462.00	100	0.00
NVNT	ANT1	802.11n(HT20)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



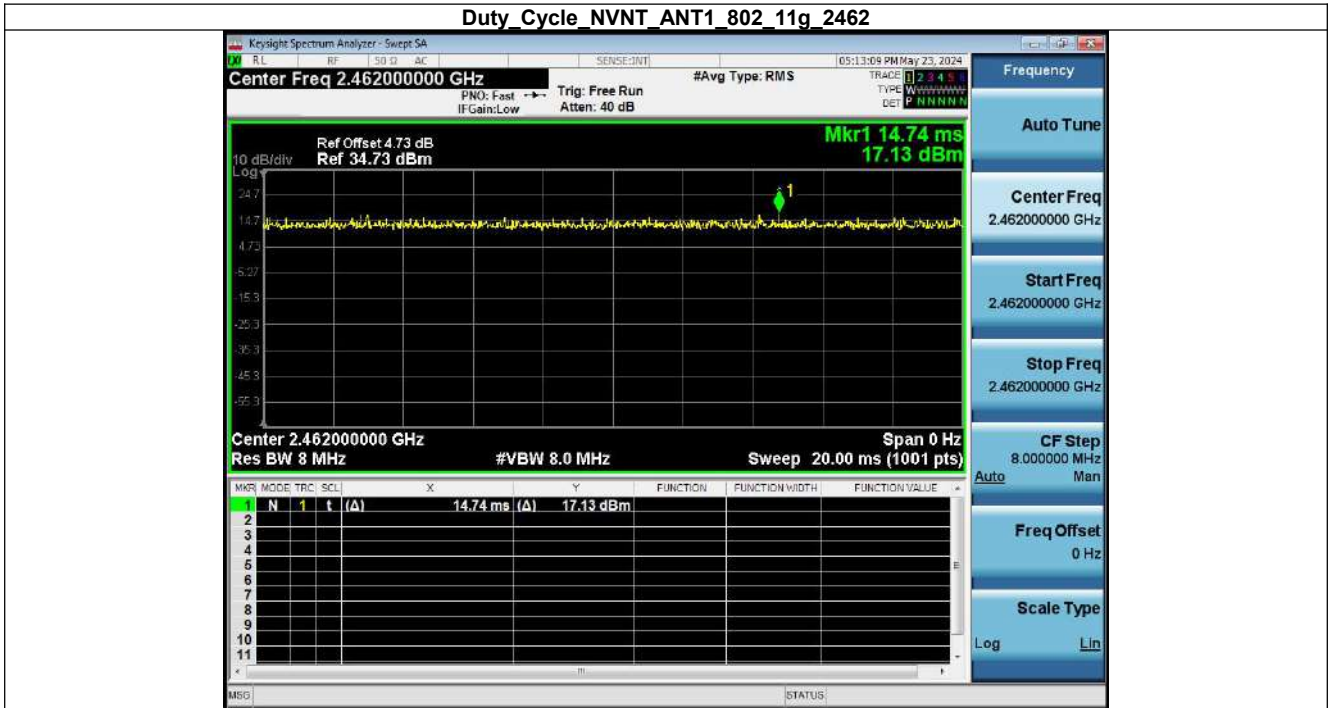
Duty Cycle NVNT_ANT1_802_11g_2412



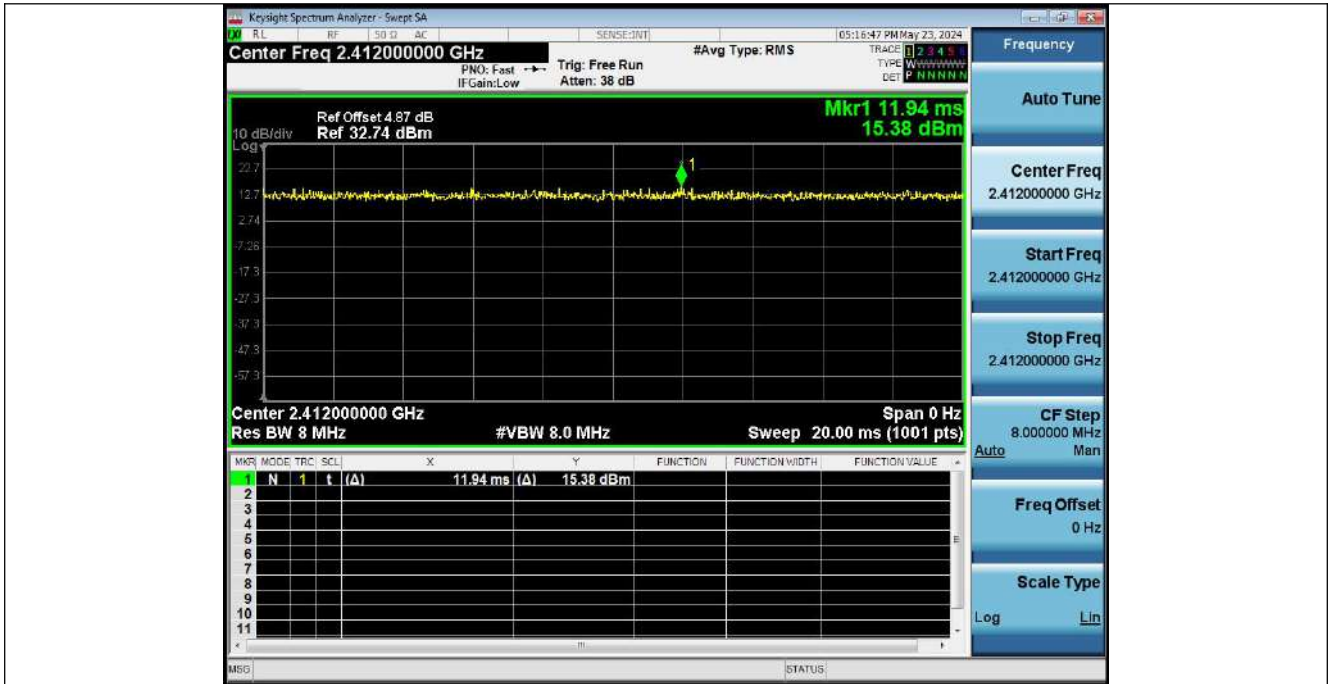
Duty Cycle NVNT_ANT1_802_11g_2437



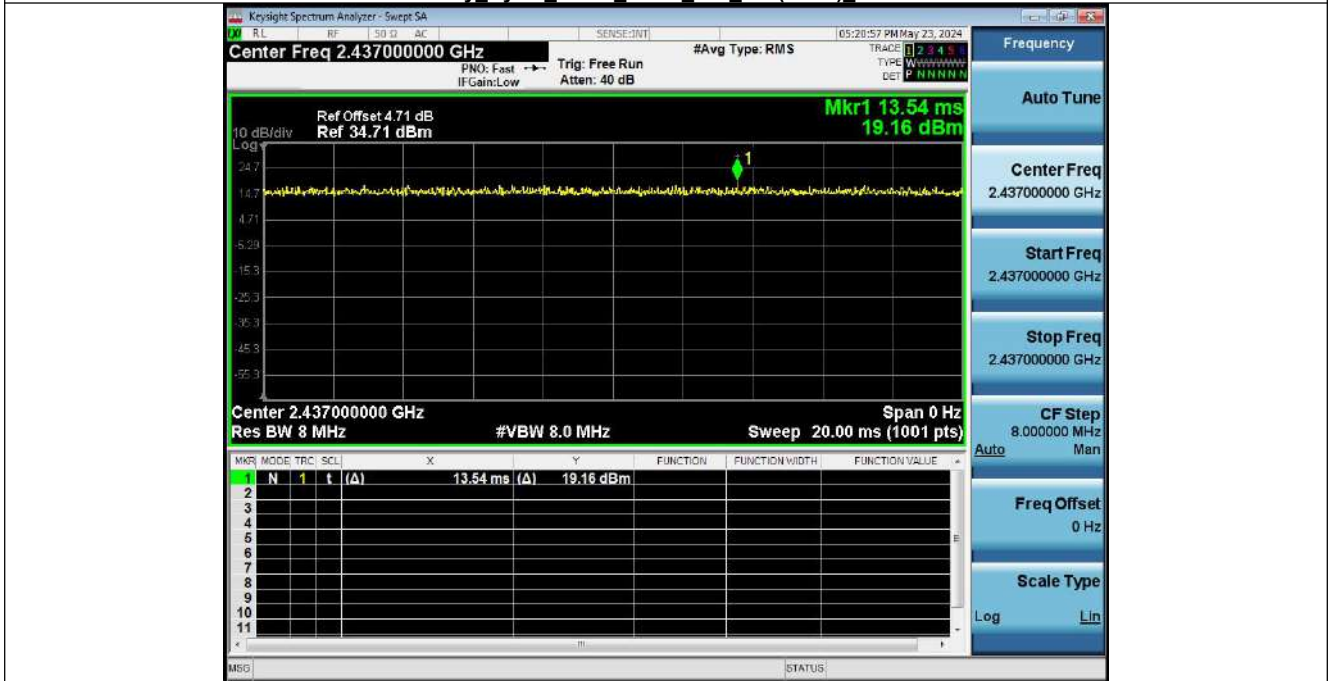
Duty_Cycle_NVNT_ANT1_802_11g_2462



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)	Antenna Gain(dB)	Conducted Power limit(dBm)	EIRP(dBm)	EIRP limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	17.18	3.16	30	20.34	36	Pass
NVNT	ANT1	802.11b	2437.00	Peak	16.77	3.16	30	19.93	36	Pass
NVNT	ANT1	802.11b	2462.00	Peak	17.05	3.16	30	20.21	36	Pass
NVNT	ANT1	802.11g	2412.00	Peak	16.78	3.16	30	19.94	36	Pass
NVNT	ANT1	802.11g	2437.00	Peak	16.64	3.16	30	19.80	36	Pass
NVNT	ANT1	802.11g	2462.00	Peak	16.23	3.16	30	19.39	36	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	15.68	3.16	30	18.84	36	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	15.10	3.16	30	18.26	36	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	15.35	3.16	30	18.51	36	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	-0.12	-10.00	-10.12	8	Pass
NVNT	ANT1	802.11b	2437.00	-0.12	-10.00	-10.12	8	Pass
NVNT	ANT1	802.11b	2462.00	0.51	-10.00	-9.49	8	Pass
NVNT	ANT1	802.11g	2412.00	-7.43	-10.00	-17.43	8	Pass
NVNT	ANT1	802.11g	2437.00	-2.91	-10.00	-12.91	8	Pass
NVNT	ANT1	802.11g	2462.00	-6.38	-10.00	-16.38	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-7.79	-10.00	-17.80	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-3.07	-10.00	-13.07	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-6.88	-10.00	-16.88	8	Pass



Power Spectral Density NVNT_ANT1_802_11b_2462



Power Spectral Density NVNT_ANT1_802_11g_2412



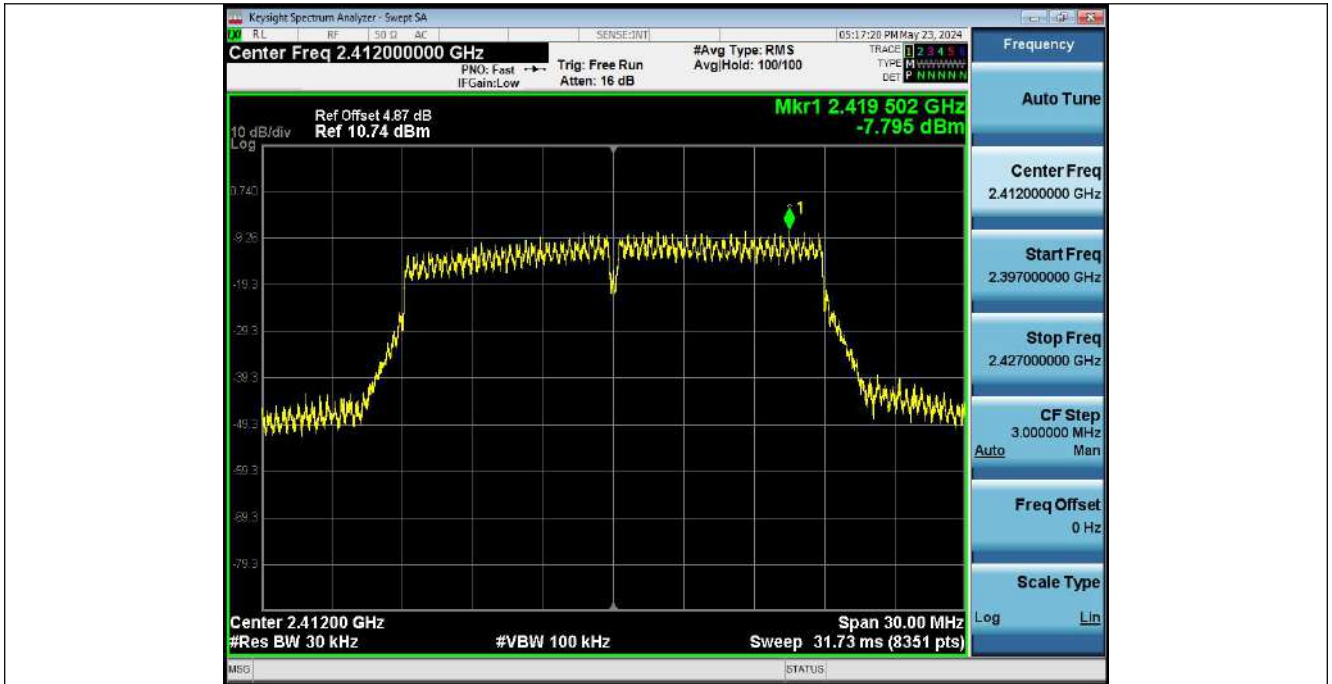
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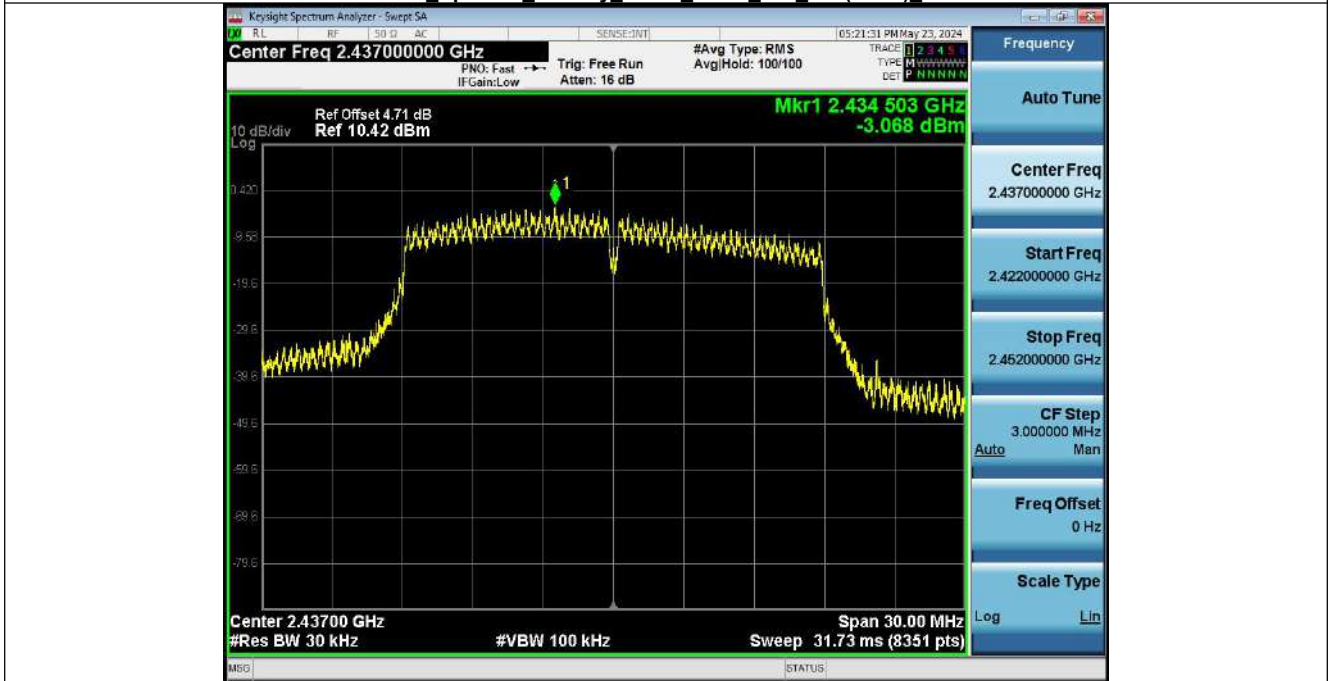
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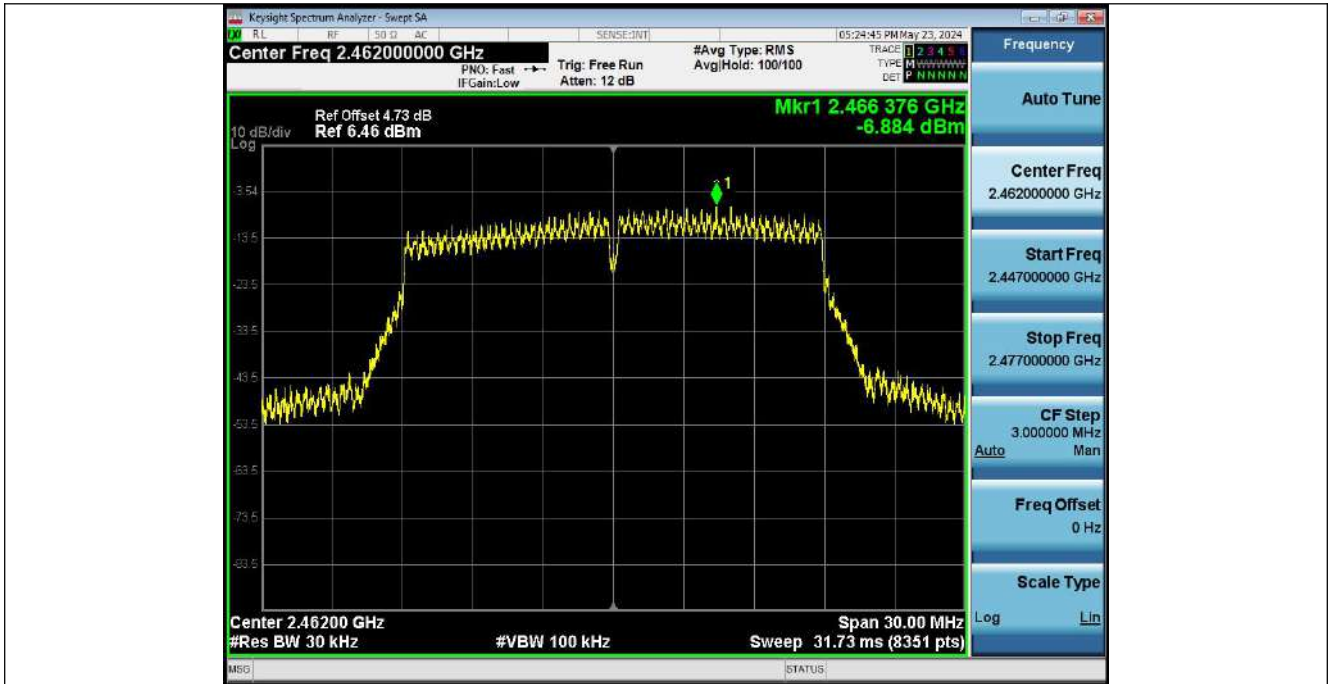
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Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437



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	-37.525	-15.563	Pass
NVNT	ANT1	802.11b	2462.00	2487.376	-59.613	-15.741	Pass
NVNT	ANT1	802.11g	2412.00	2399.824	-40.019	-25.279	Pass
NVNT	ANT1	802.11g	2462.00	2483.824	-56.472	-24.386	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.936	-38.558	-25.462	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.536	-54.960	-25.027	Pass

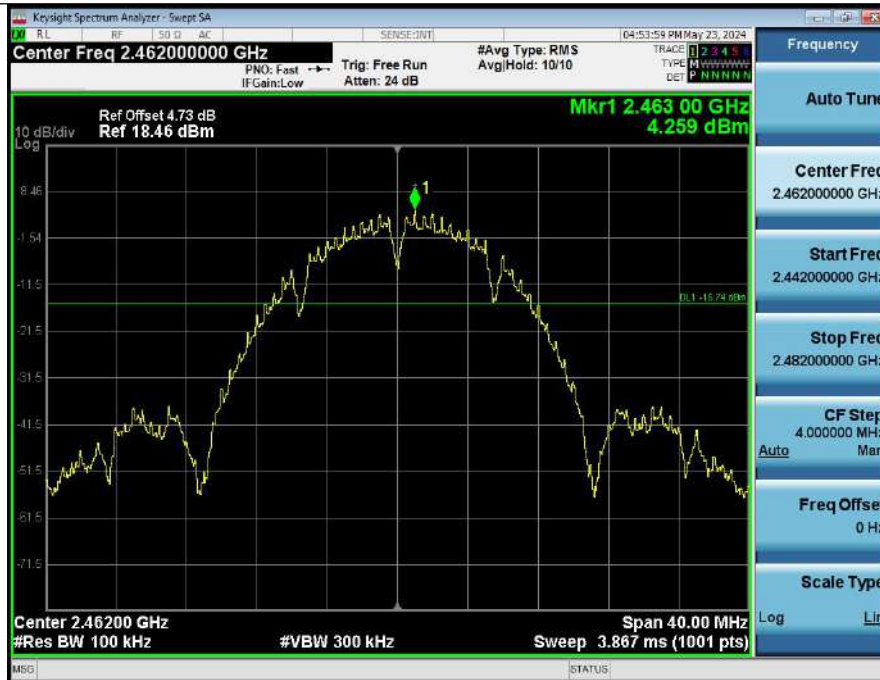
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2 Bandedge_NVNT_ANT1_802_11b_2412



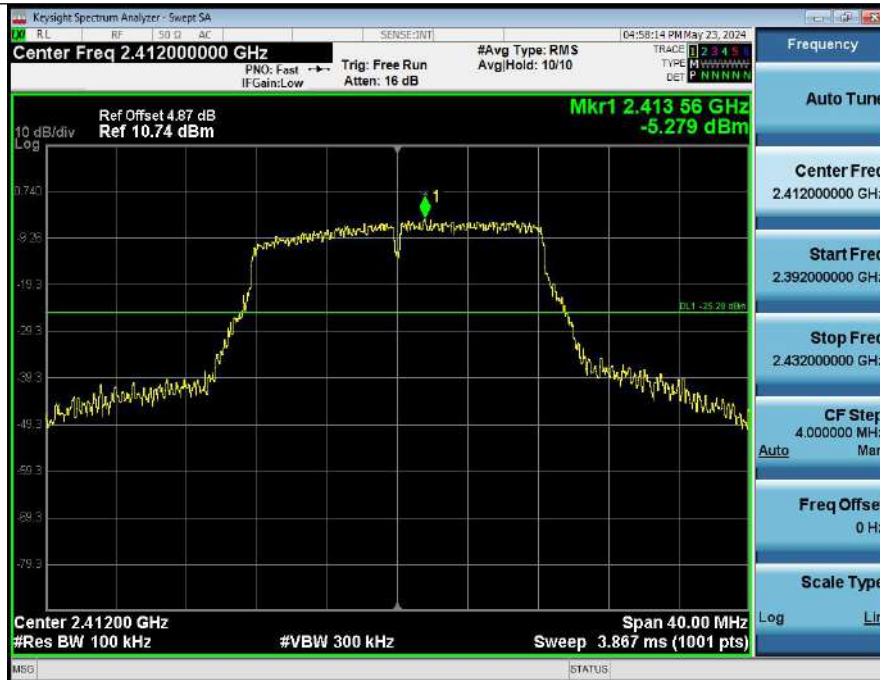
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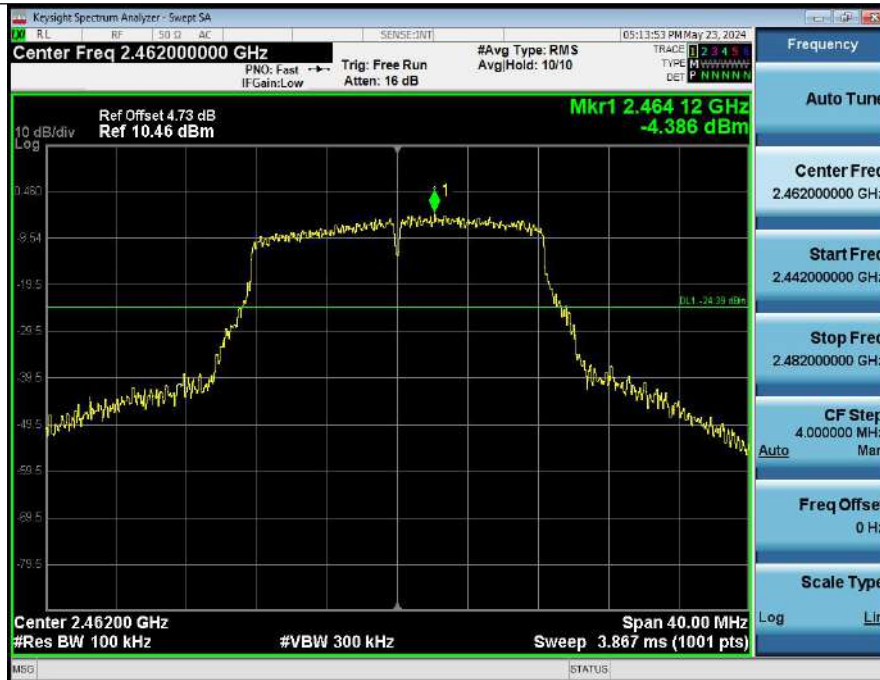
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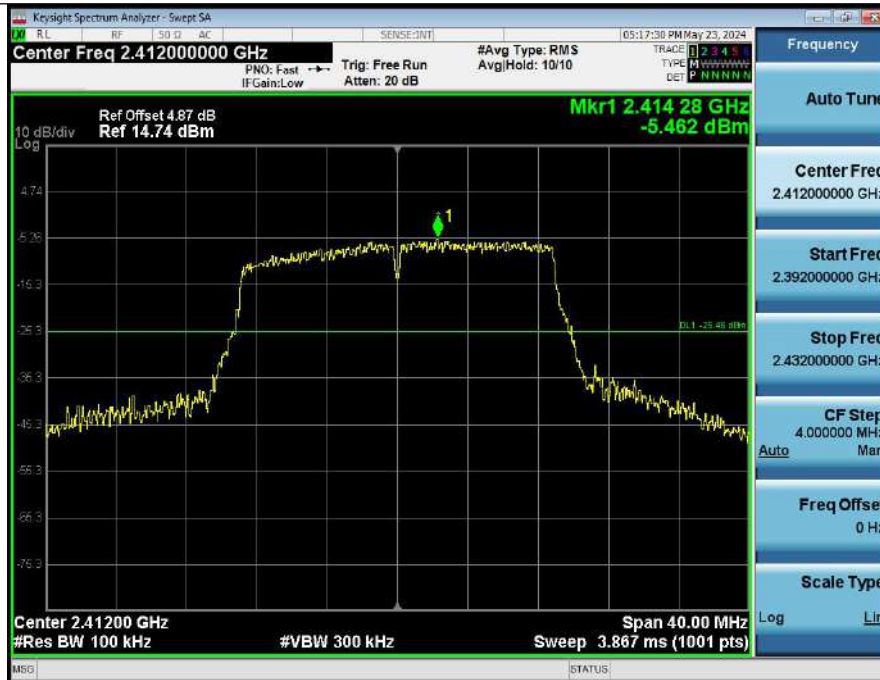
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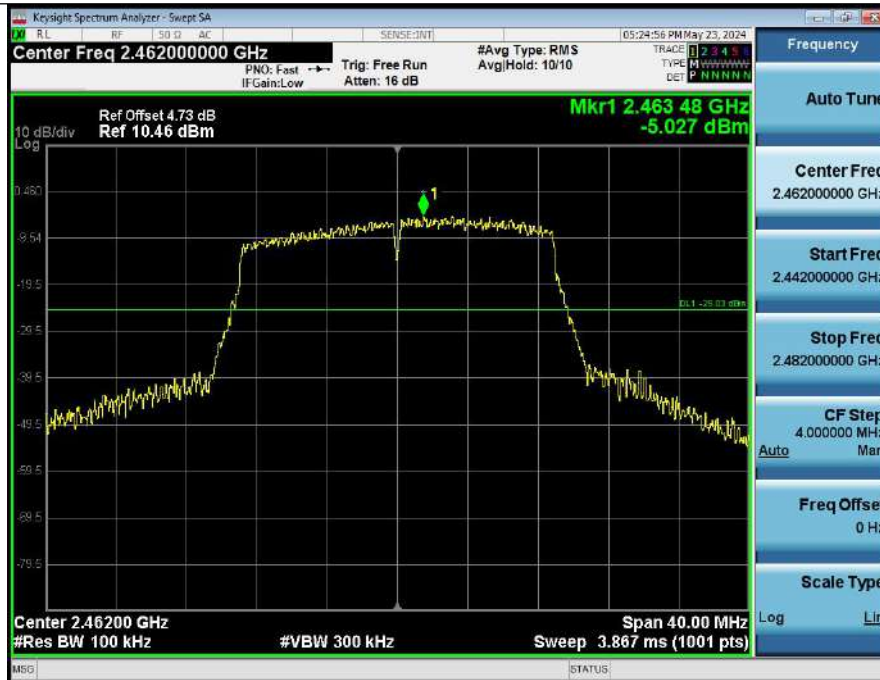
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2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462



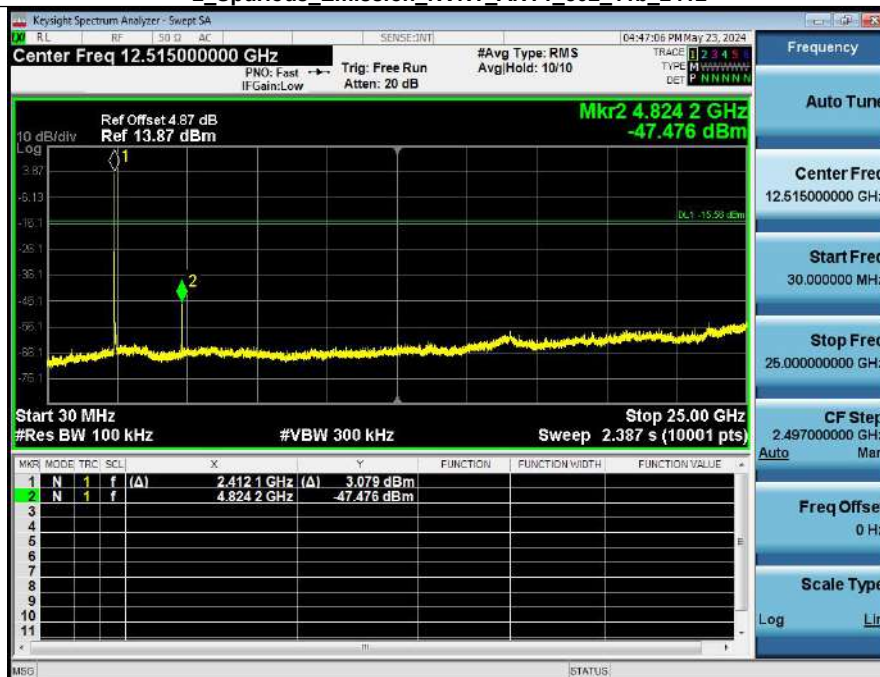
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	4824.240	-47.476	-15.563	Pass
NVNT	ANT1	802.11b	2437.00	24990.012	-47.942	-16.085	Pass
NVNT	ANT1	802.11b	2462.00	1747.936	-49.399	-15.741	Pass
NVNT	ANT1	802.11g	2412.00	24970.036	-62.090	-25.279	Pass
NVNT	ANT1	802.11g	2437.00	24897.623	-57.361	-20.847	Pass
NVNT	ANT1	802.11g	2462.00	24897.623	-62.143	-24.386	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24972.533	-55.395	-25.462	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24475.630	-57.861	-21.785	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	913.938	-61.112	-25.027	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412



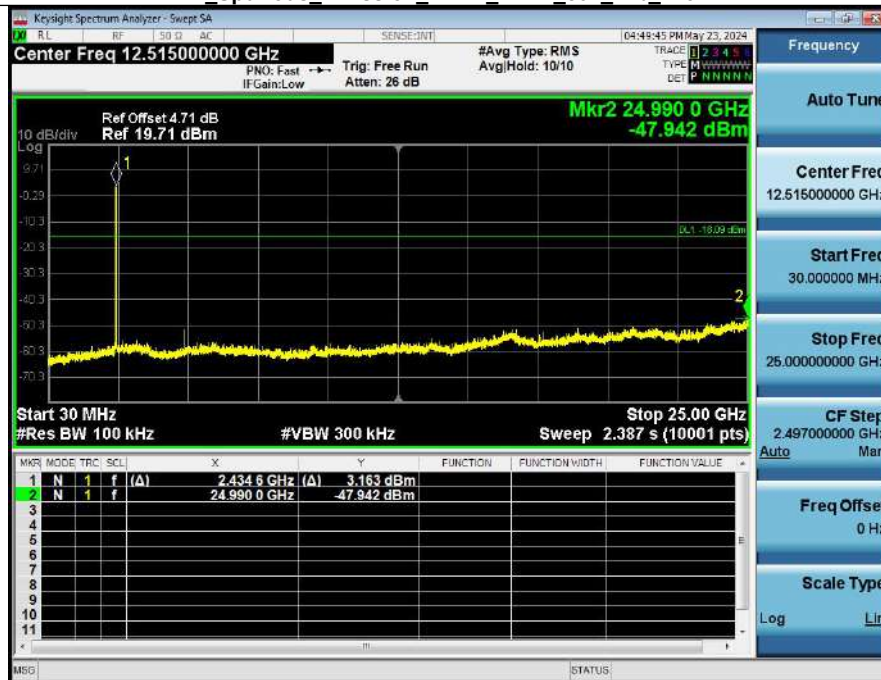
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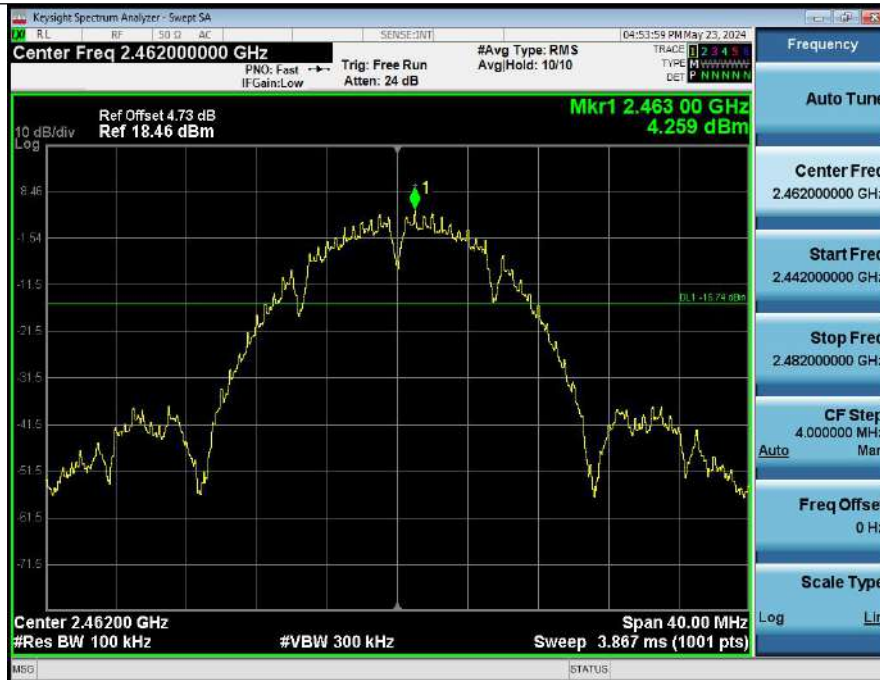
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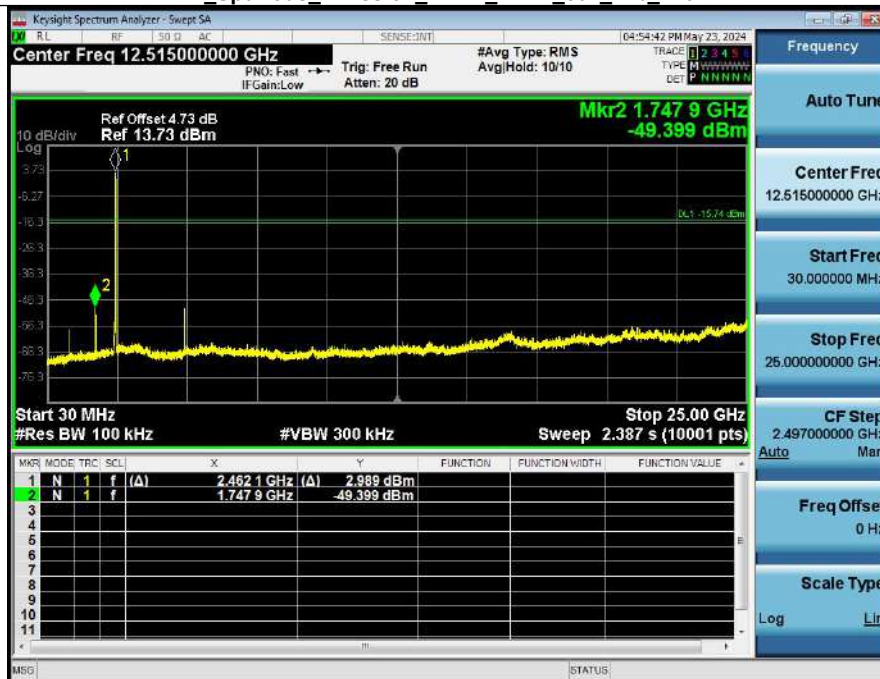
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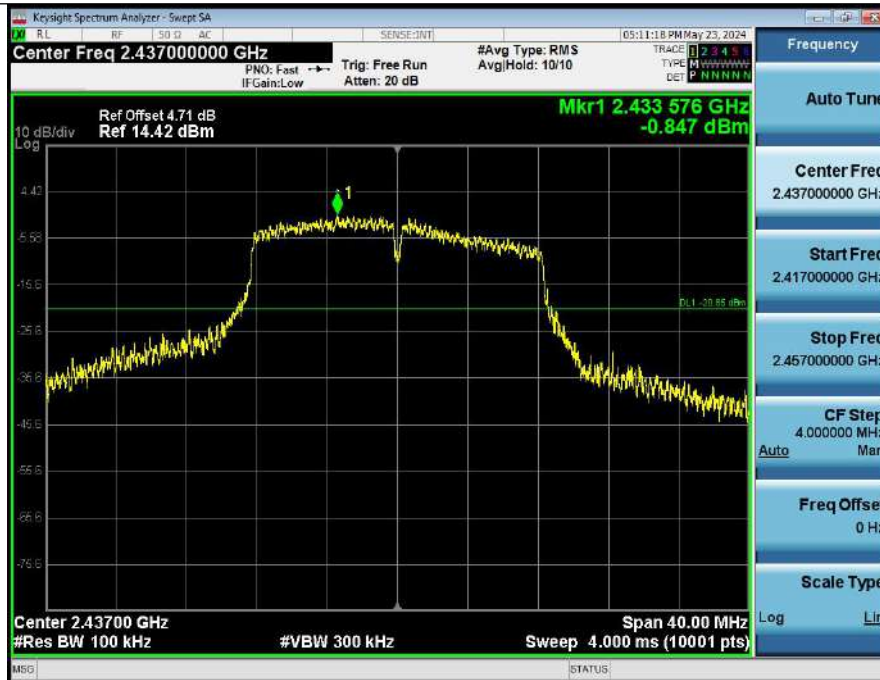
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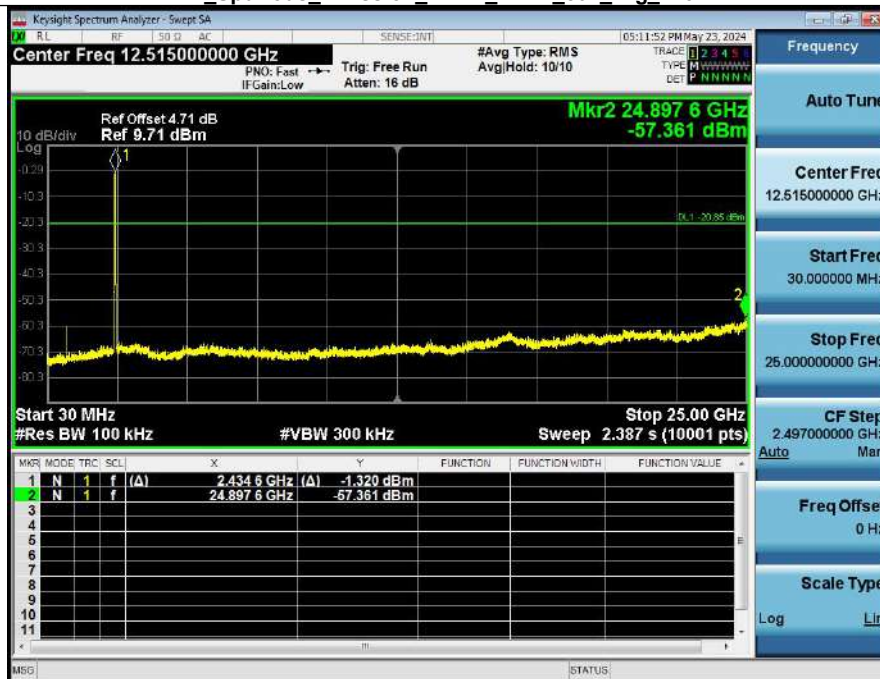
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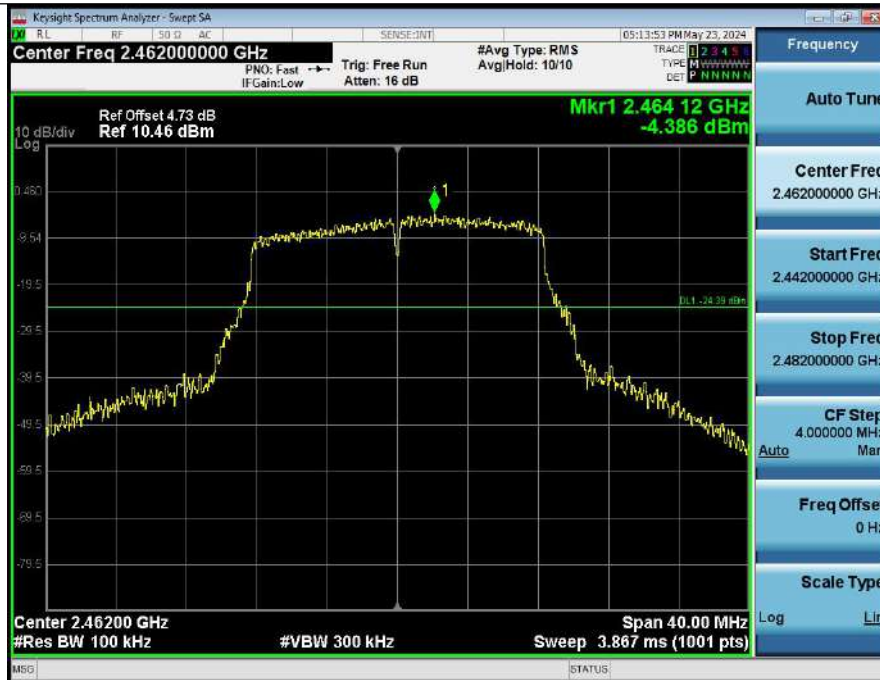
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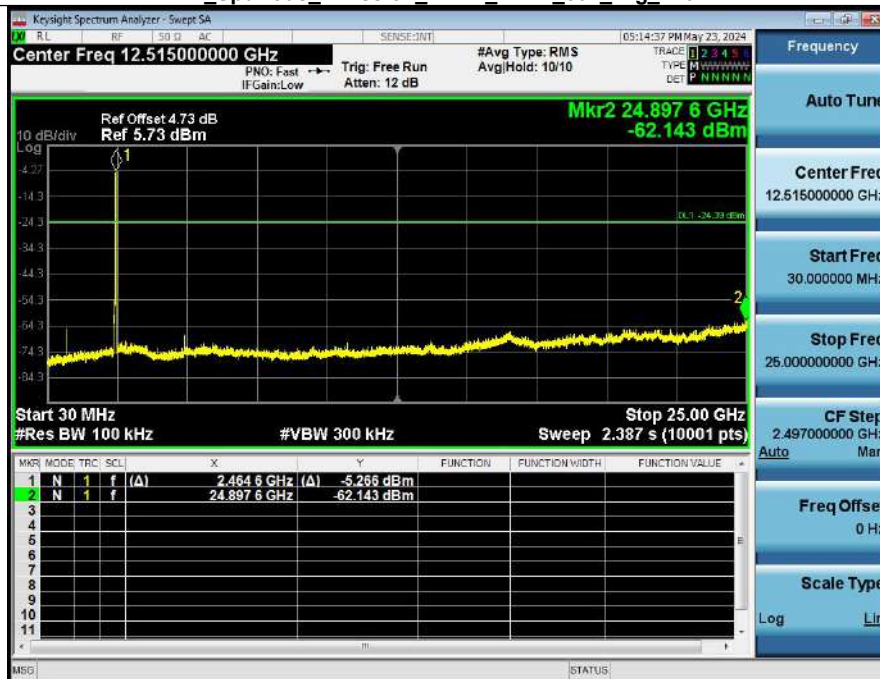
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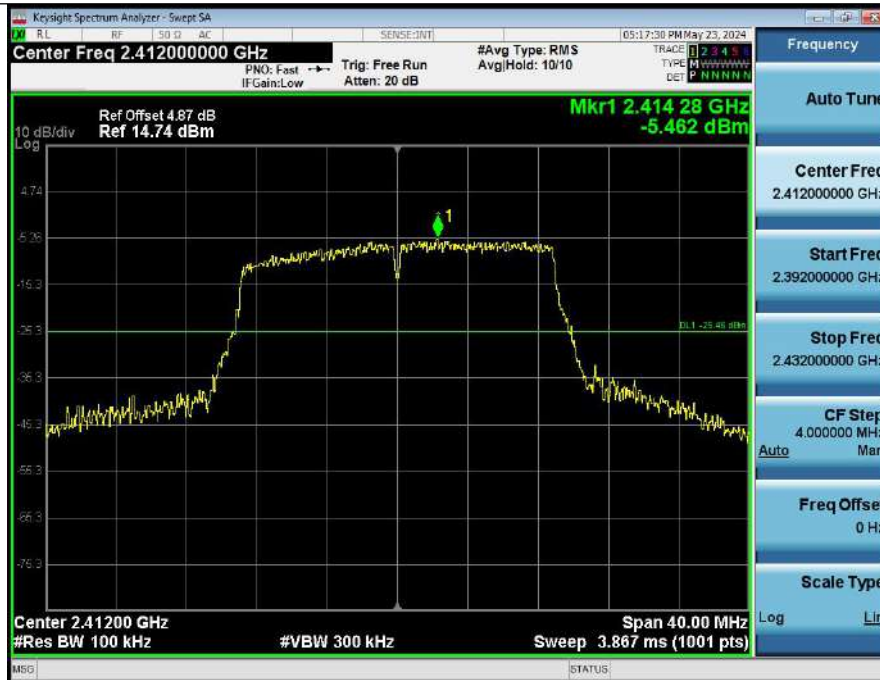
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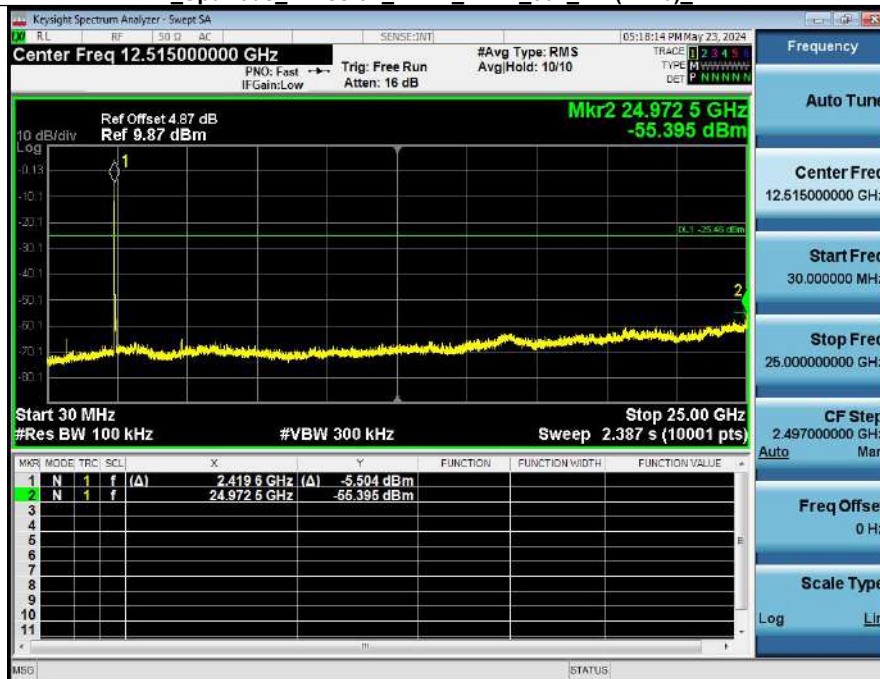
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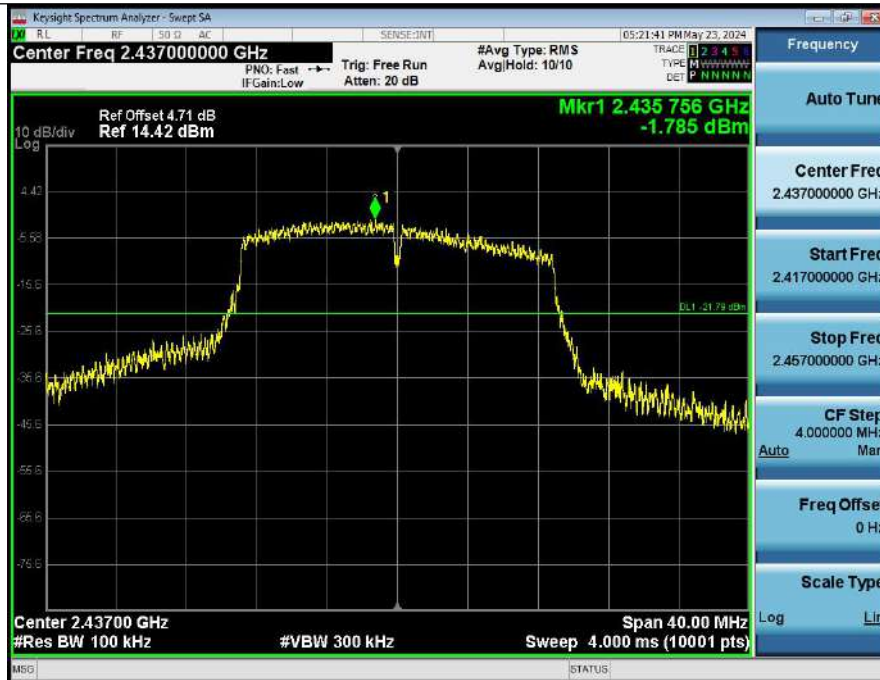
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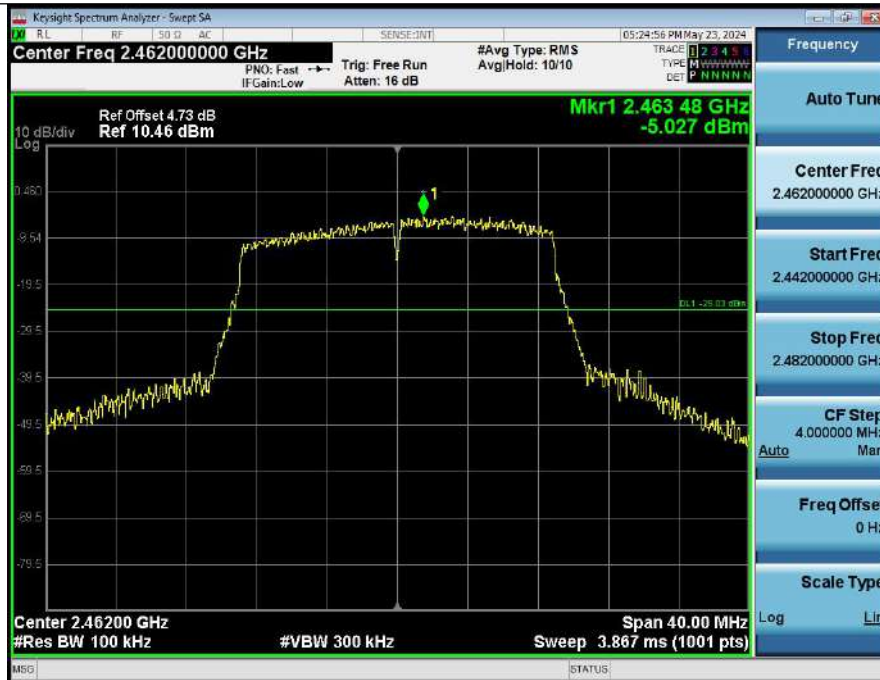
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2 Spurious Emission_NVNT_ANT1_802_11n(HT20)_2437



1 Reference Level_NVNT_ANT1_802_11n(HT20)_2462



2 Spurious Emission_NVNT_ANT1_802_11n(HT20)_2462

