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FCC ID WIFI 2.4

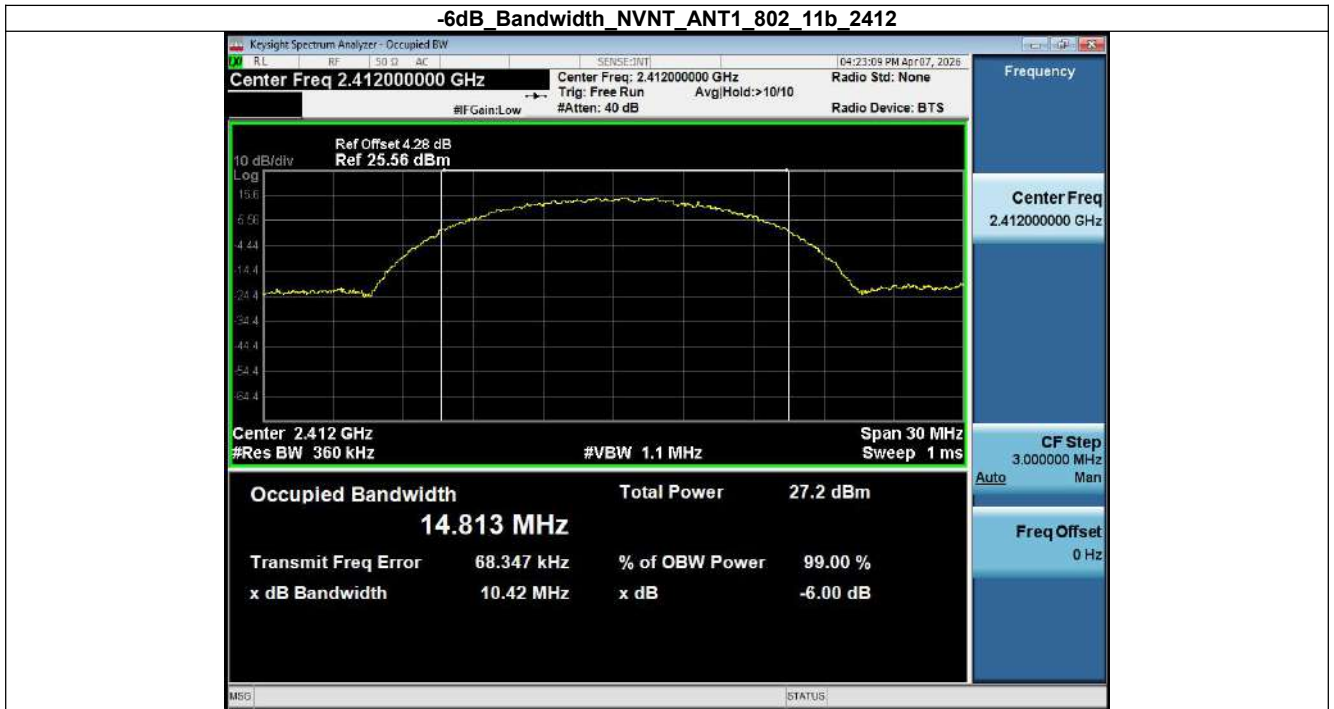
FCC_2.4G_WIFI (Part15.247) Test Data

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1. -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	10.42	500	Pass
NVNT	ANT1	802.11b	2437.00	10.50	500	Pass
NVNT	ANT1	802.11b	2462.00	10.43	500	Pass
NVNT	ANT1	802.11g	2412.00	16.54	500	Pass
NVNT	ANT1	802.11g	2437.00	16.69	500	Pass
NVNT	ANT1	802.11g	2462.00	16.61	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.79	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.56	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.59	500	Pass



-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

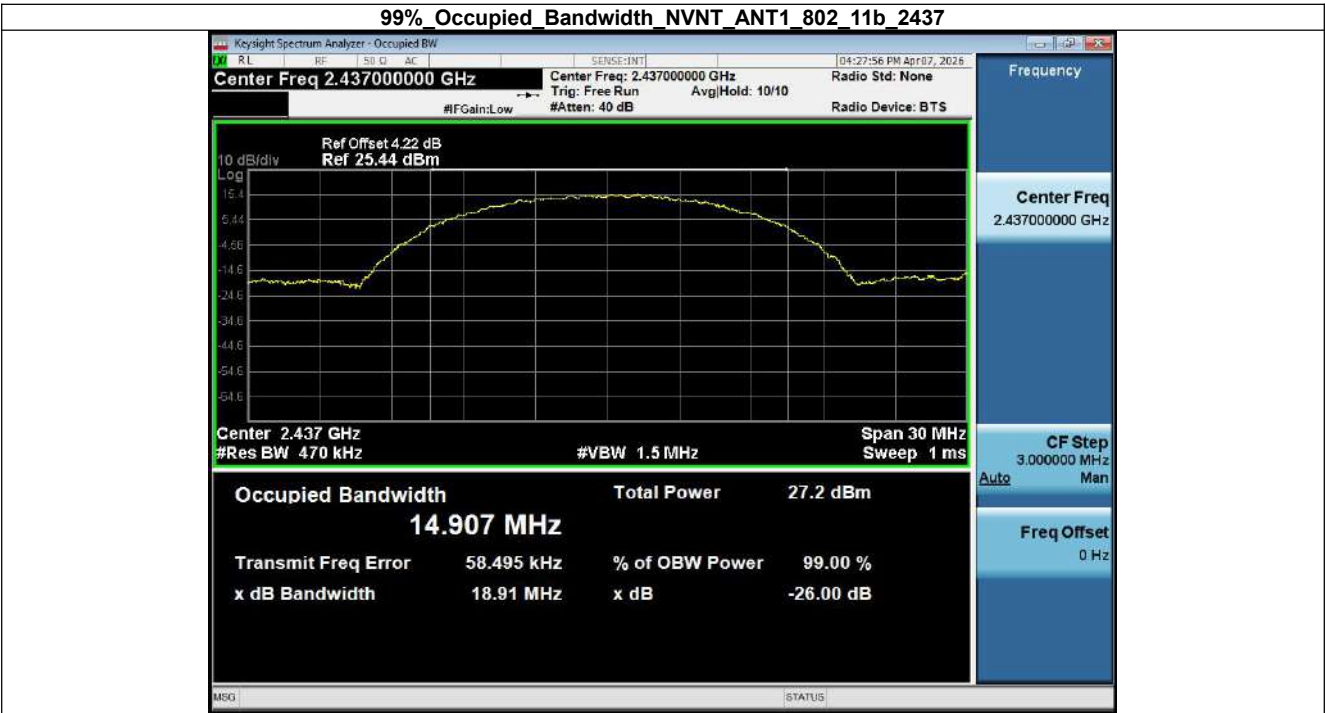
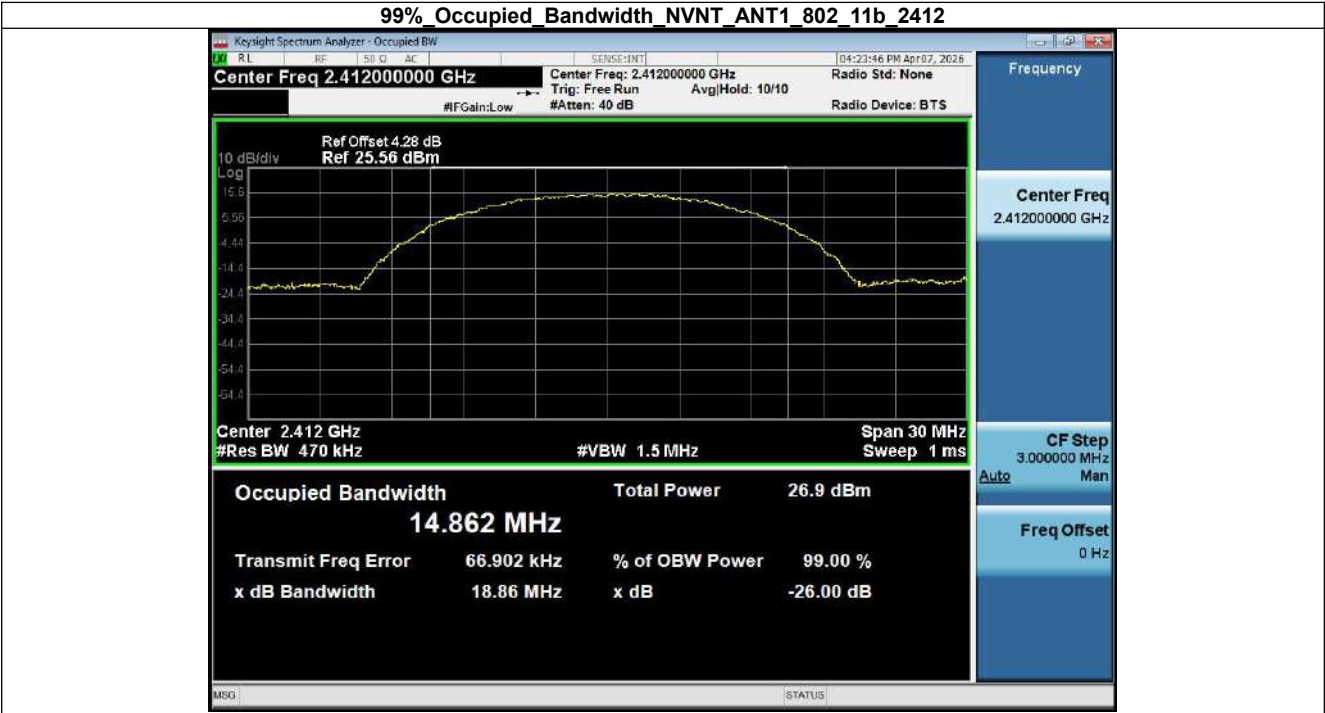


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	14.862
NVNT	ANT1	802.11b	2437.00	14.907
NVNT	ANT1	802.11b	2462.00	14.952
NVNT	ANT1	802.11g	2412.00	16.892
NVNT	ANT1	802.11g	2437.00	16.858
NVNT	ANT1	802.11g	2462.00	16.915
NVNT	ANT1	802.11n(HT20)	2412.00	17.726
NVNT	ANT1	802.11n(HT20)	2437.00	17.799
NVNT	ANT1	802.11n(HT20)	2462.00	17.785



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

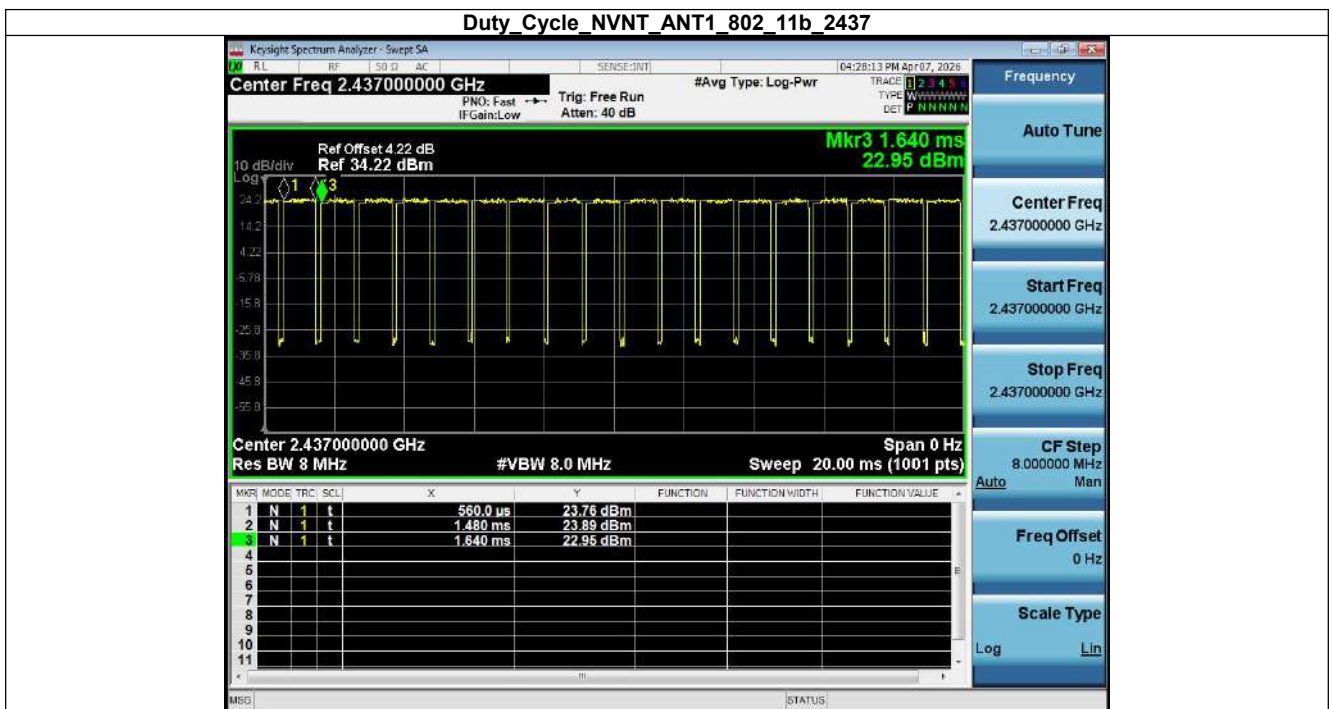
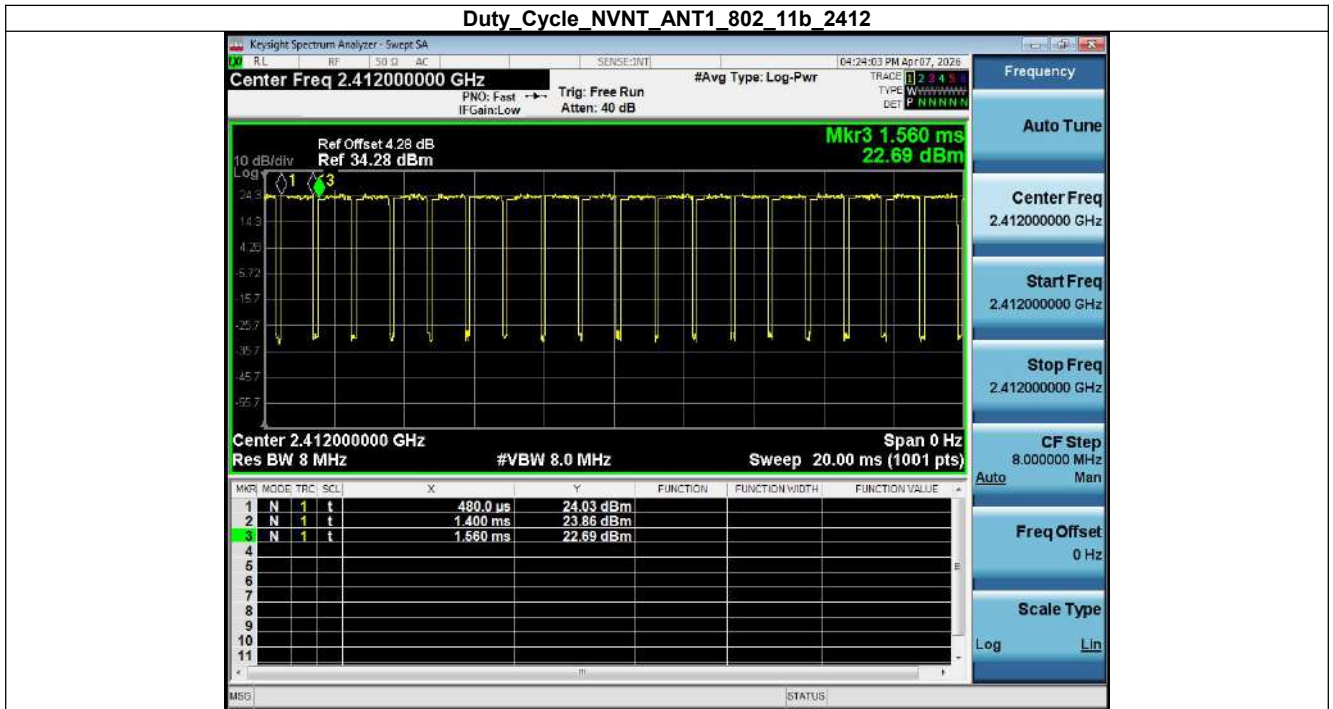


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462

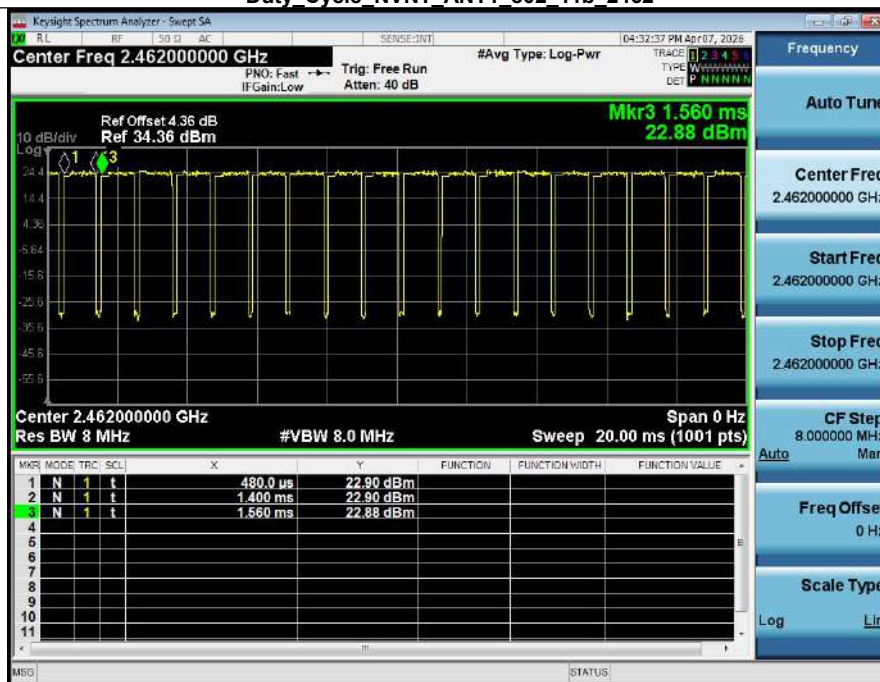


3. Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	87.04	0.60
NVNT	ANT1	802.11b	2437.00	87.04	0.60
NVNT	ANT1	802.11b	2462.00	87.04	0.60
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



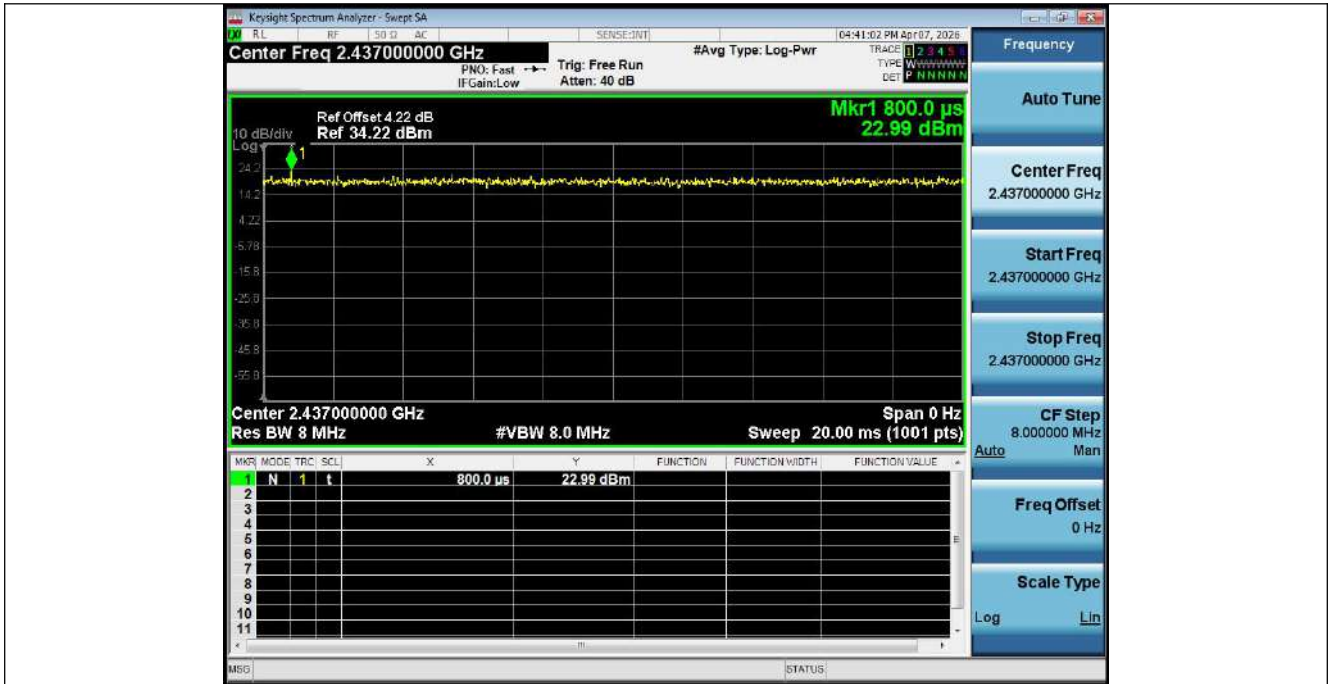
Duty Cycle NVNT_ANT1_802_11b_2462



Duty Cycle NVNT_ANT1_802_11g_2412



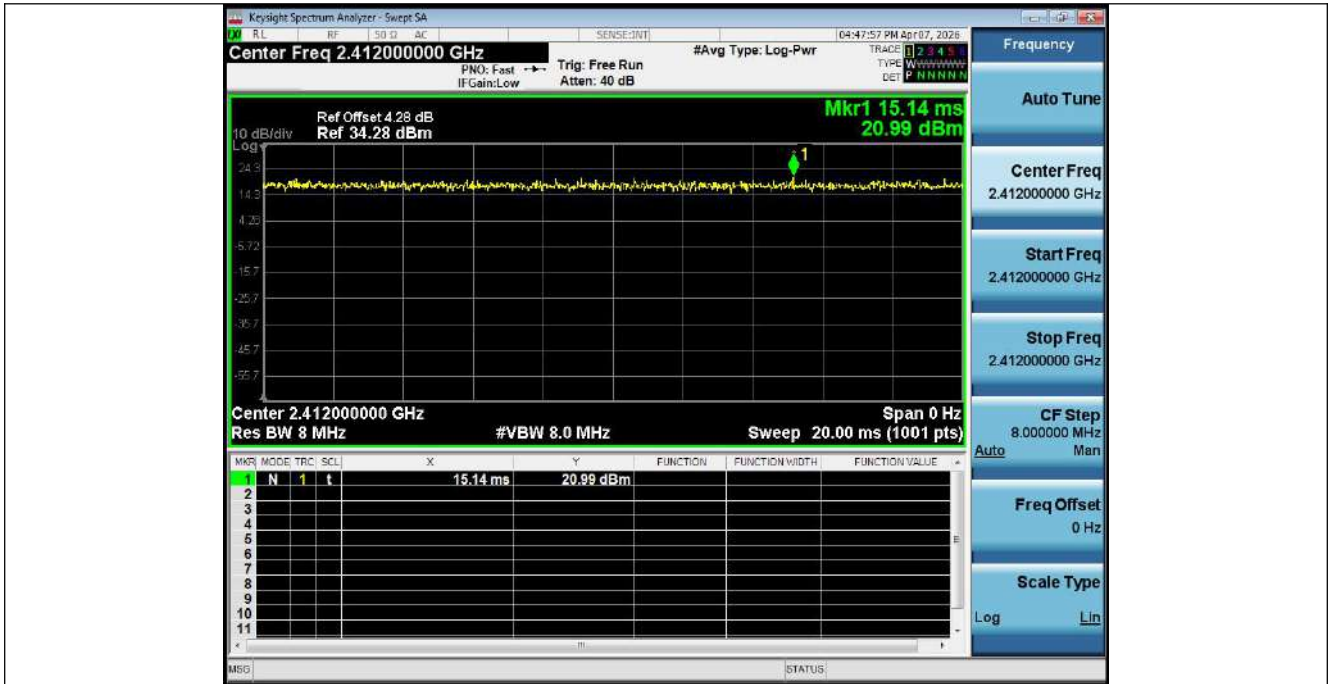
Duty Cycle NVNT_ANT1_802_11g_2437



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

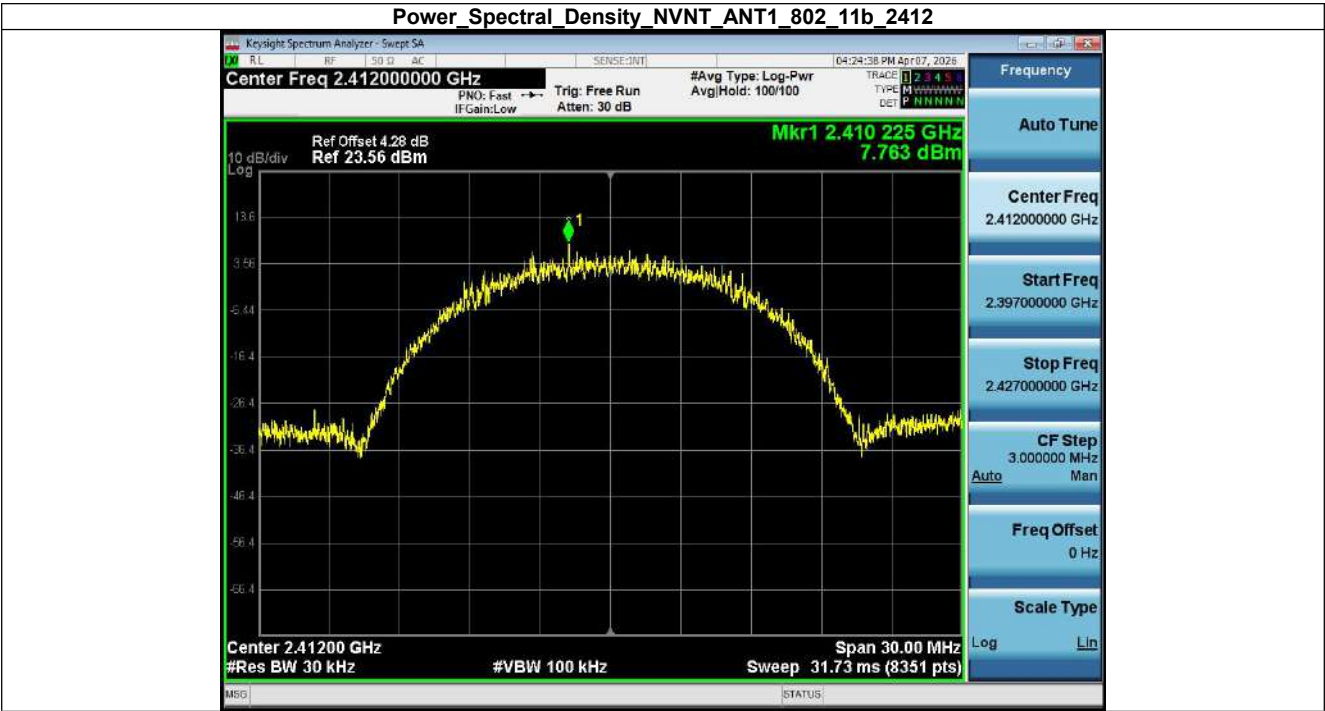


4. MAX. Output Power

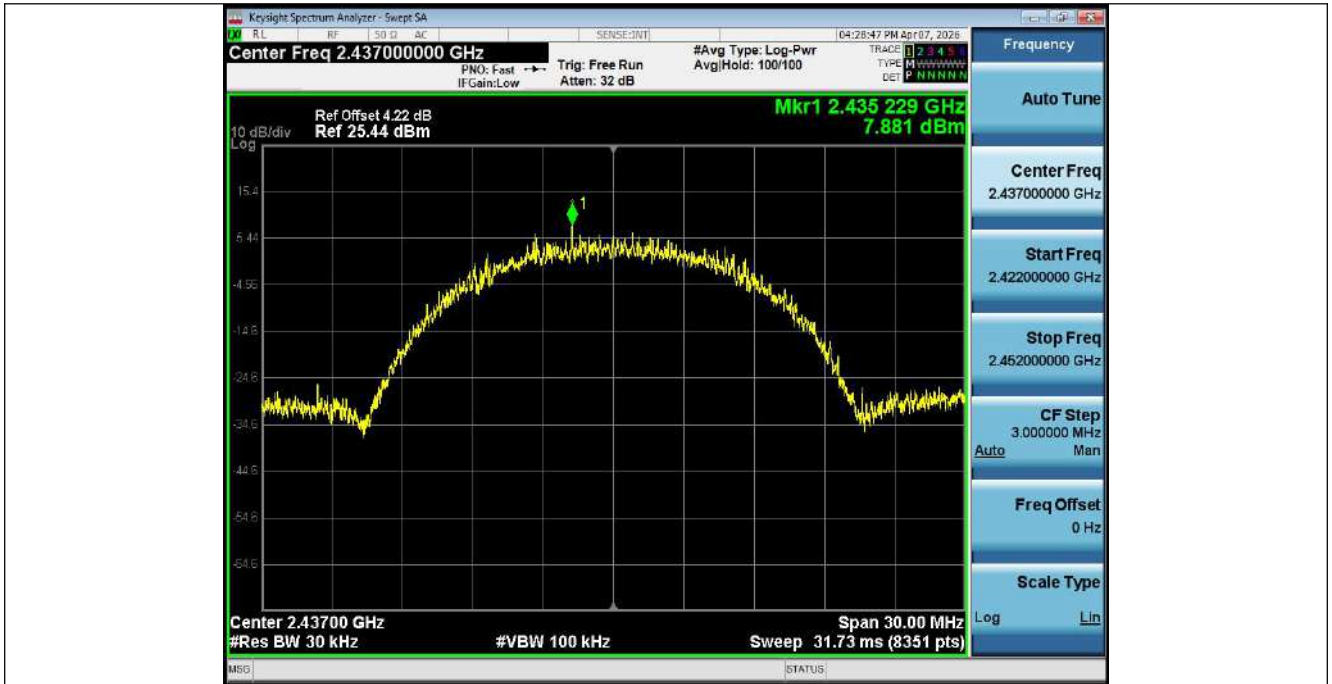
Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	26.78	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	26.86	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	26.80	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	22.37	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	22.78	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	22.85	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	21.42	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	21.93	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	21.91	30	Pass

5. Power Spectral Density

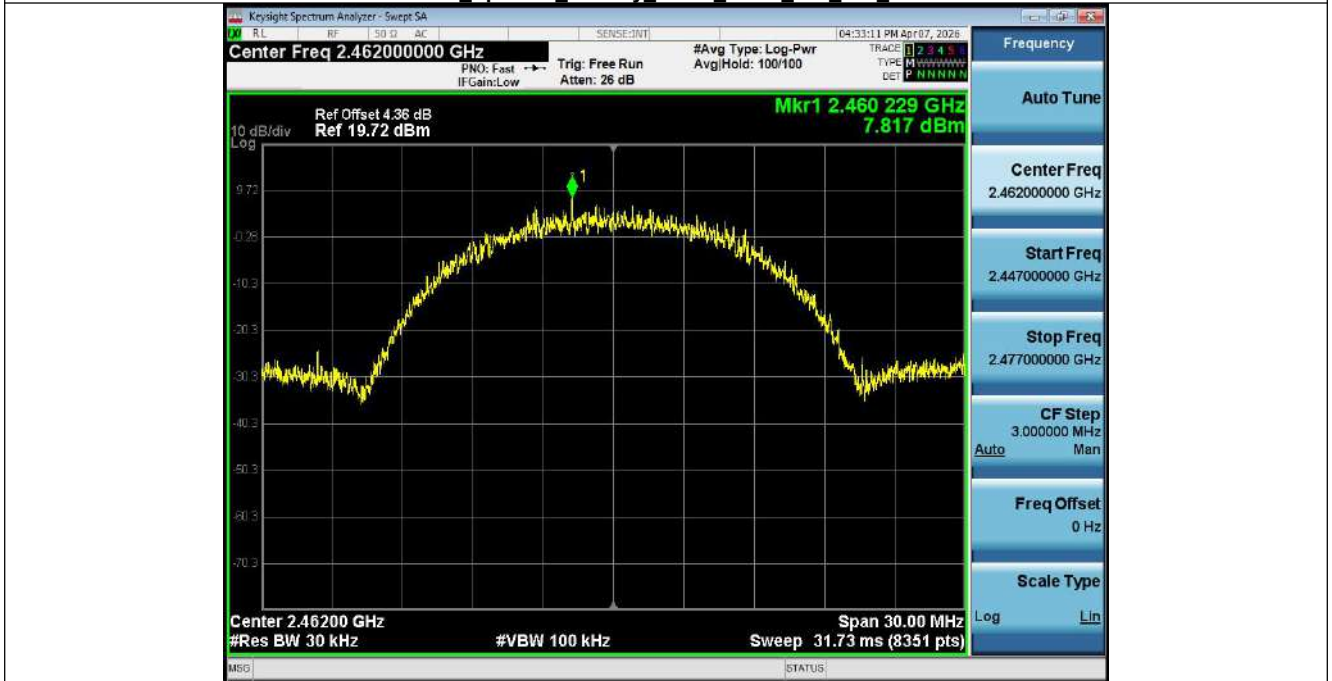
Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD(dBm/30kHz)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	7.76	-10.00	-2.24	8	Pass
NVNT	ANT1	802.11b	2437.00	7.88	-10.00	-2.12	8	Pass
NVNT	ANT1	802.11b	2462.00	7.82	-10.00	-2.18	8	Pass
NVNT	ANT1	802.11g	2412.00	-0.23	-10.00	-10.23	8	Pass
NVNT	ANT1	802.11g	2437.00	0.27	-10.00	-9.73	8	Pass
NVNT	ANT1	802.11g	2462.00	-0.50	-10.00	-10.50	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-1.83	-10.00	-11.83	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-1.44	-10.00	-11.44	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-1.51	-10.00	-11.51	8	Pass



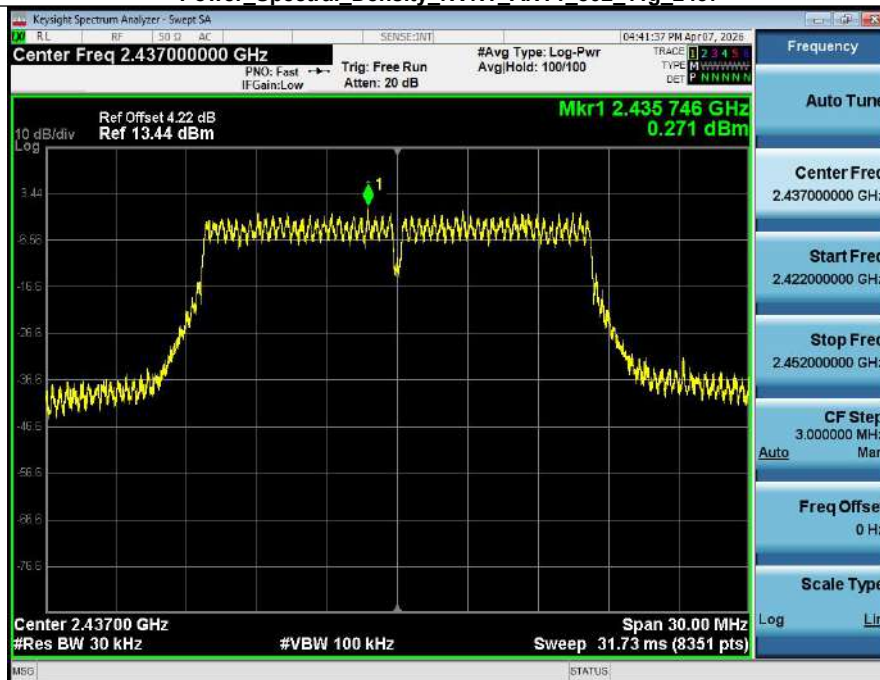
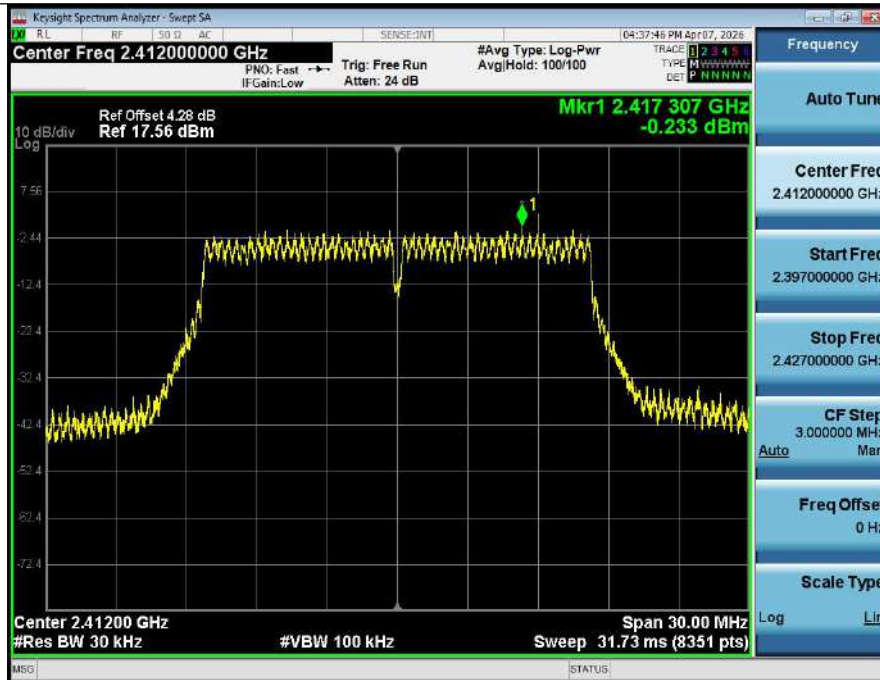
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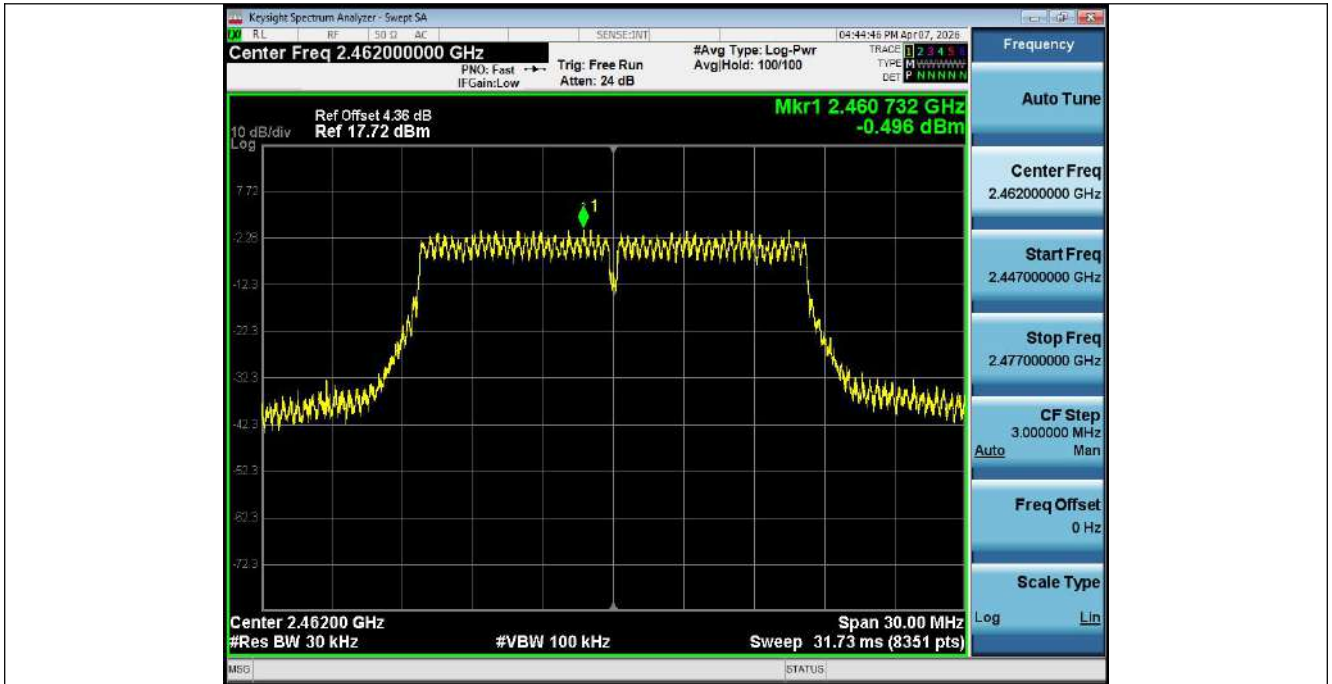


Power_Spectral_Density_NVNT_ANT1_802_11b_2462

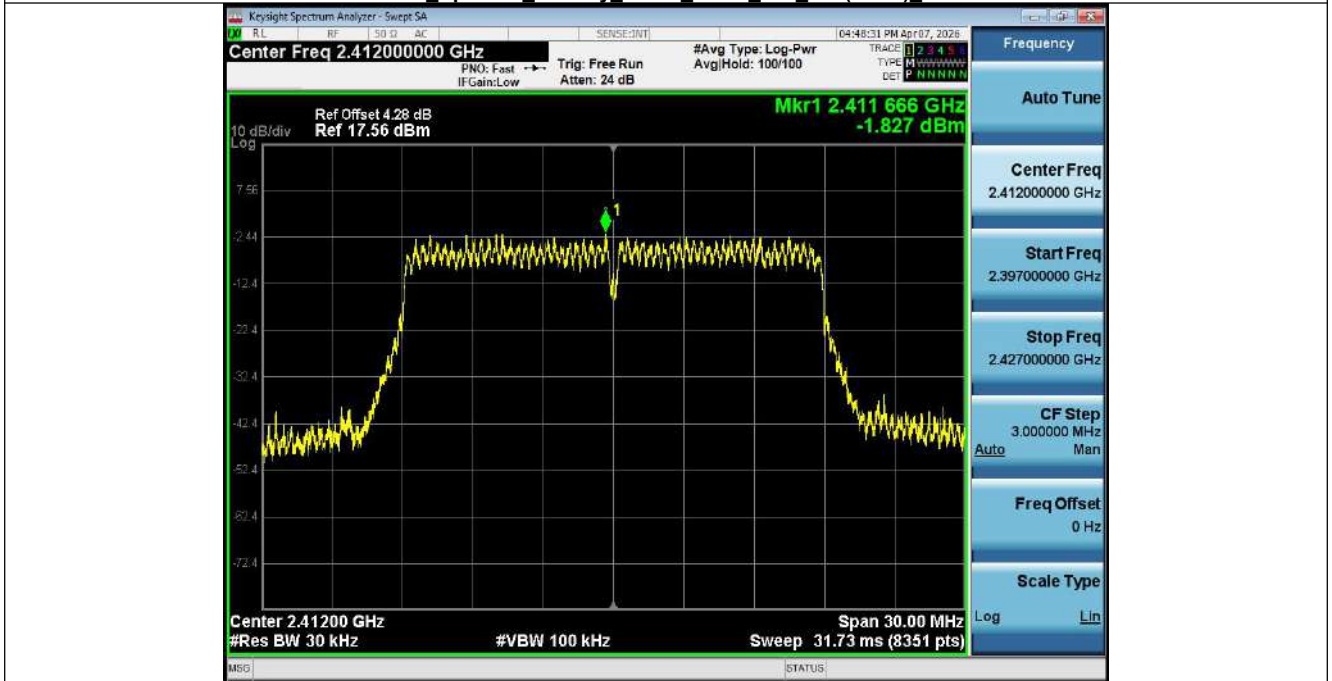


Power_Spectral_Density_NVNT_ANT1_802_11g_2412

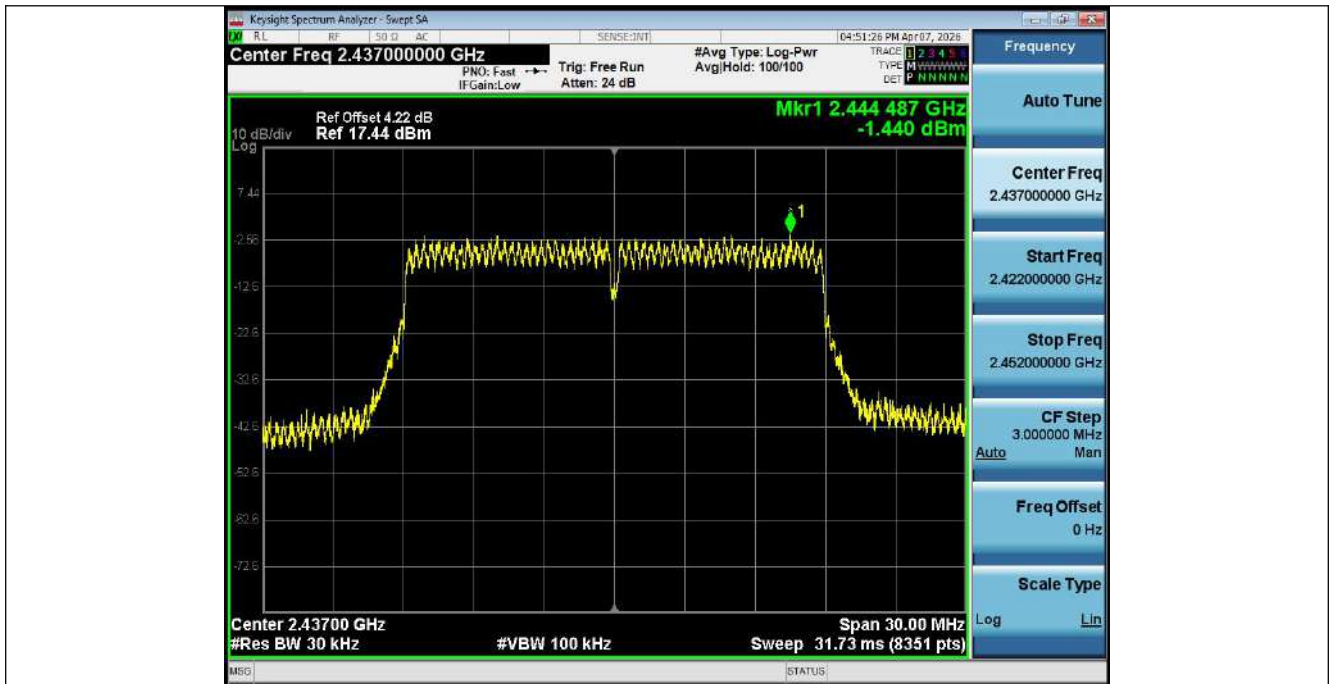




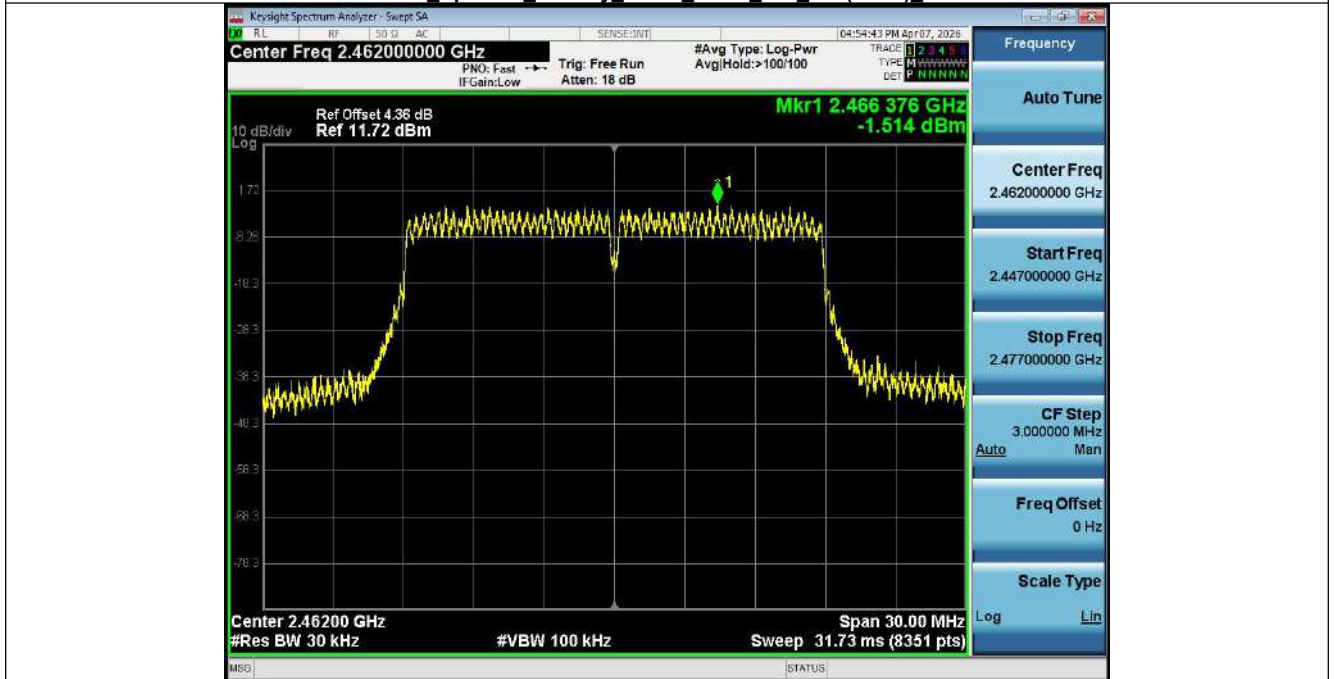
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412



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	2398.592	11.317	-25.257	-8.683	Pass
NVNT	ANT1	802.11b	2462.00	2488.000	11.153	-40.549	-8.847	Pass
NVNT	ANT1	802.11g	2412.00	2399.824	3.366	-33.565	-16.634	Pass
NVNT	ANT1	802.11g	2462.00	2484.784	4.102	-39.929	-15.898	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.376	2.670	-37.126	-17.330	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2484.352	3.152	-40.646	-16.848	Pass

1 Reference Level NVNT ANT1 802_11b 2412



2 Bandedge NVNT ANT1 802_11b 2412



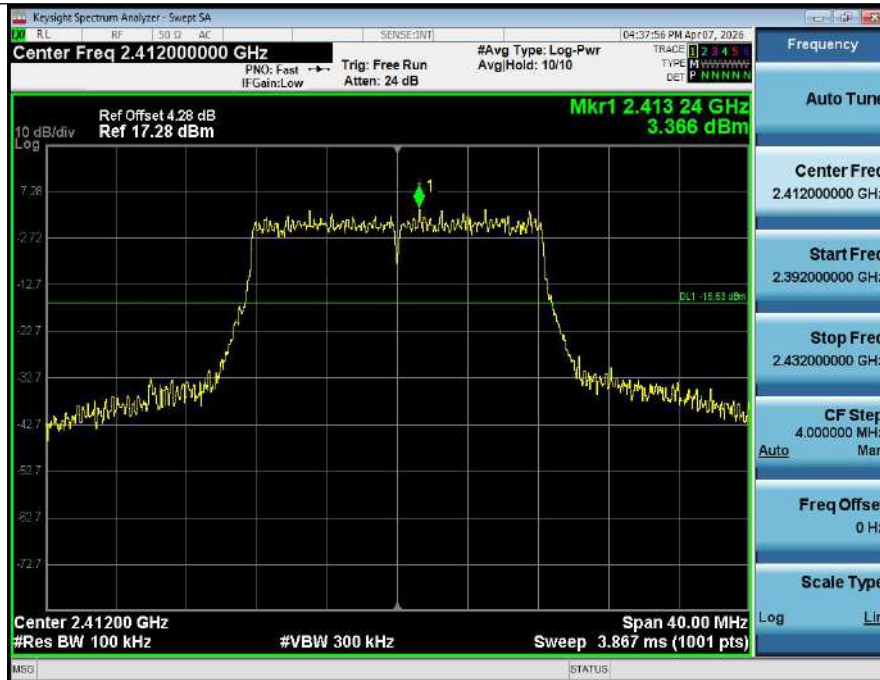
1 Reference Level NVNT ANT1 802_11b 2462



2_Bandedge_NVNT_ANT1_802_11b_2462



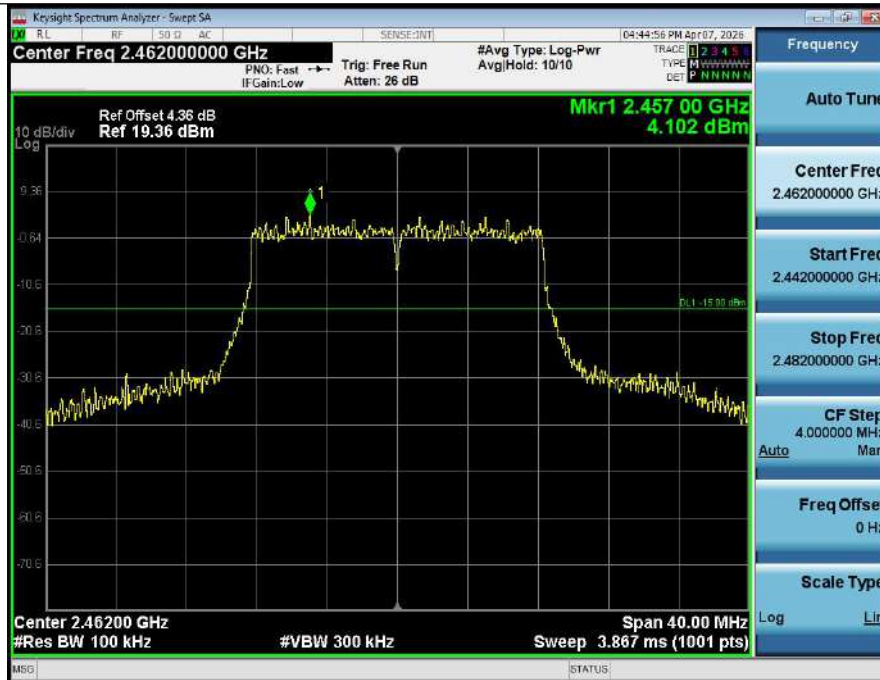
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2_Bandedge_NVNT_ANT1_802_11g_2412



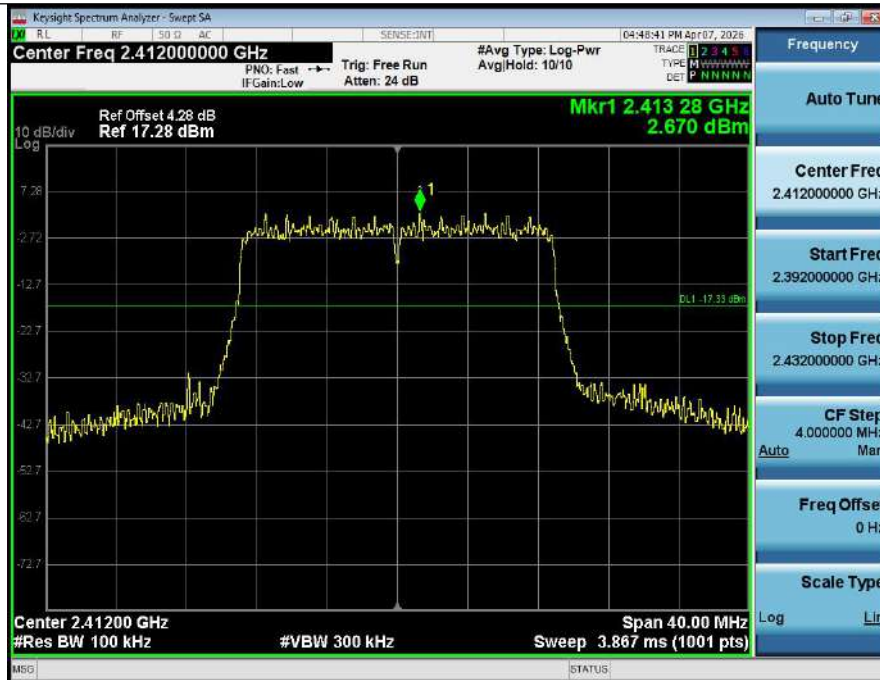
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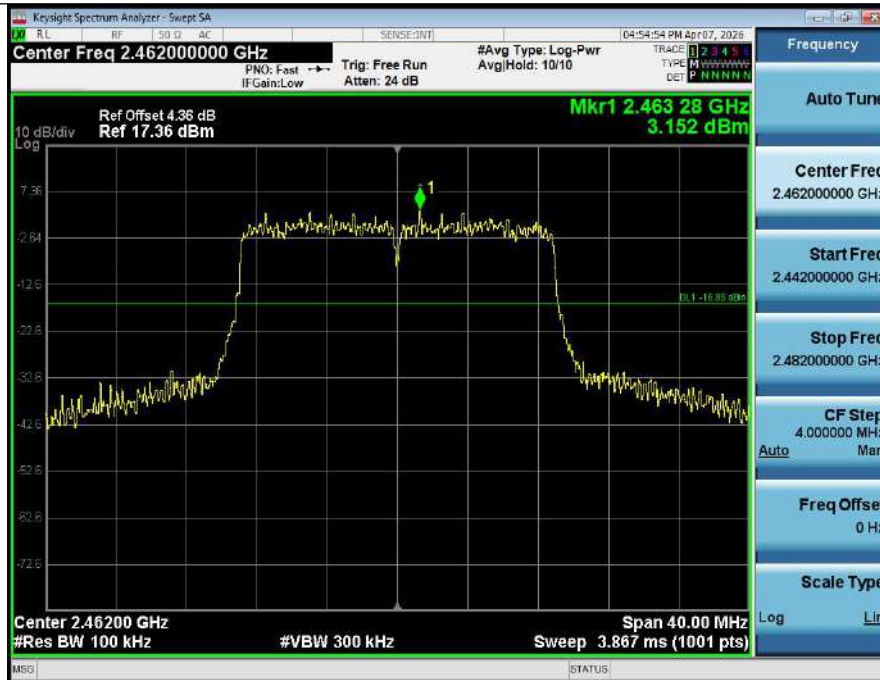
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2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462



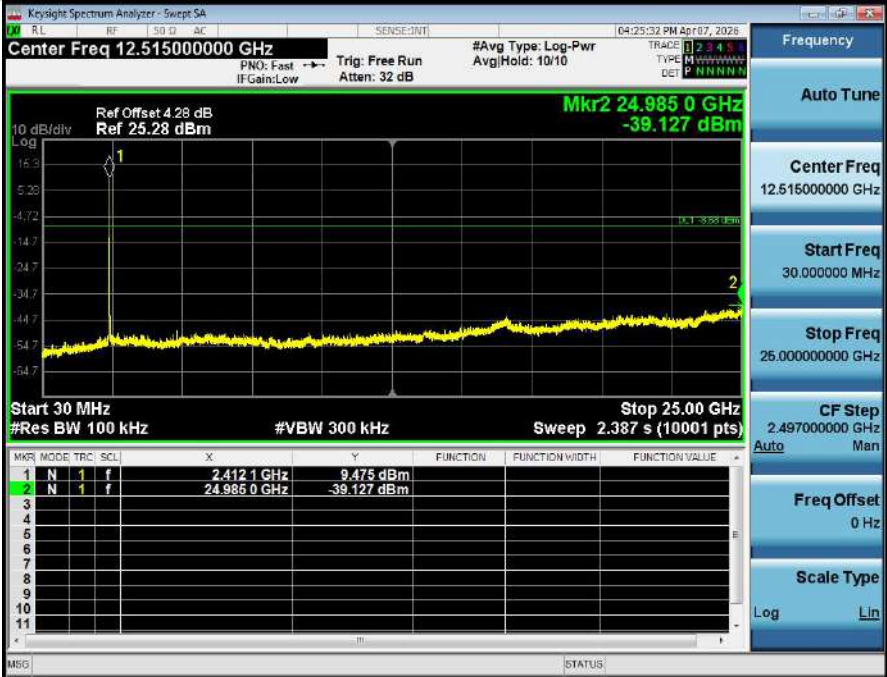
7. Spurious Emission

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	11.317	-39.127	-8.683	Pass
NVNT	ANT1	802.11b	2437.00	24985.018	11.578	-39.523	-8.422	Pass
NVNT	ANT1	802.11b	2462.00	24912.605	11.153	-39.887	-8.847	Pass
NVNT	ANT1	802.11g	2412.00	24960.048	3.366	-47.247	-16.634	Pass
NVNT	ANT1	802.11g	2437.00	24355.774	3.886	-45.676	-16.114	Pass
NVNT	ANT1	802.11g	2462.00	24955.054	4.102	-45.382	-15.898	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24942.569	2.670	-47.661	-17.330	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24877.647	3.112	-41.408	-16.888	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24857.671	3.152	-47.273	-16.848	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412



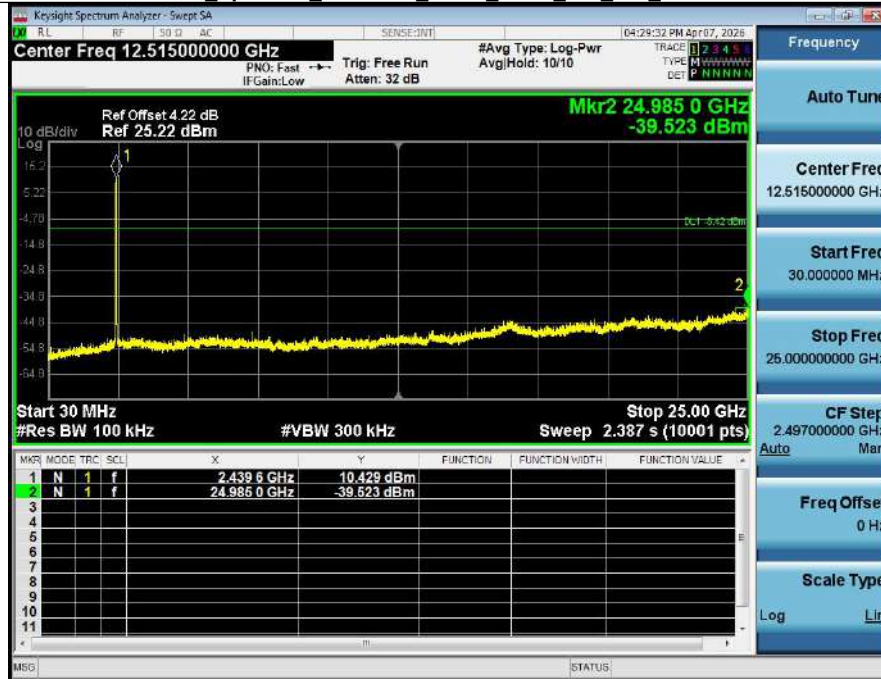
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1 Reference Level NVNT_ANT1_802_11b_2437



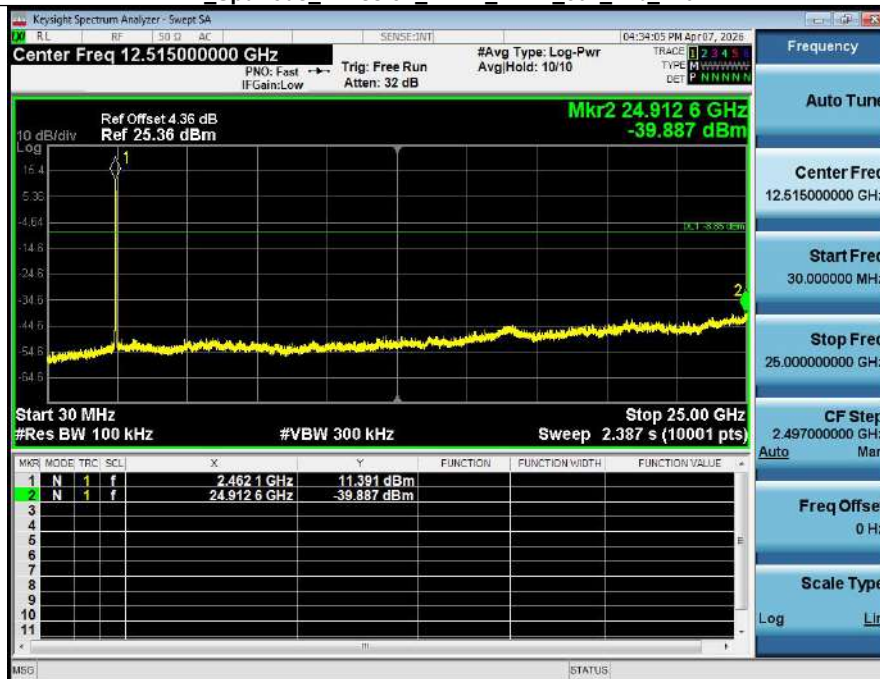
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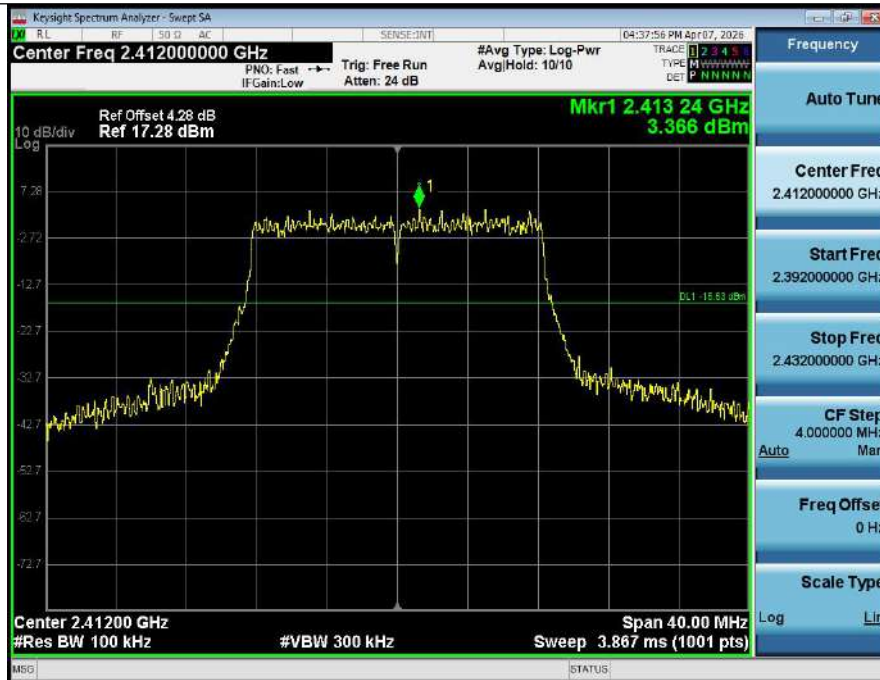
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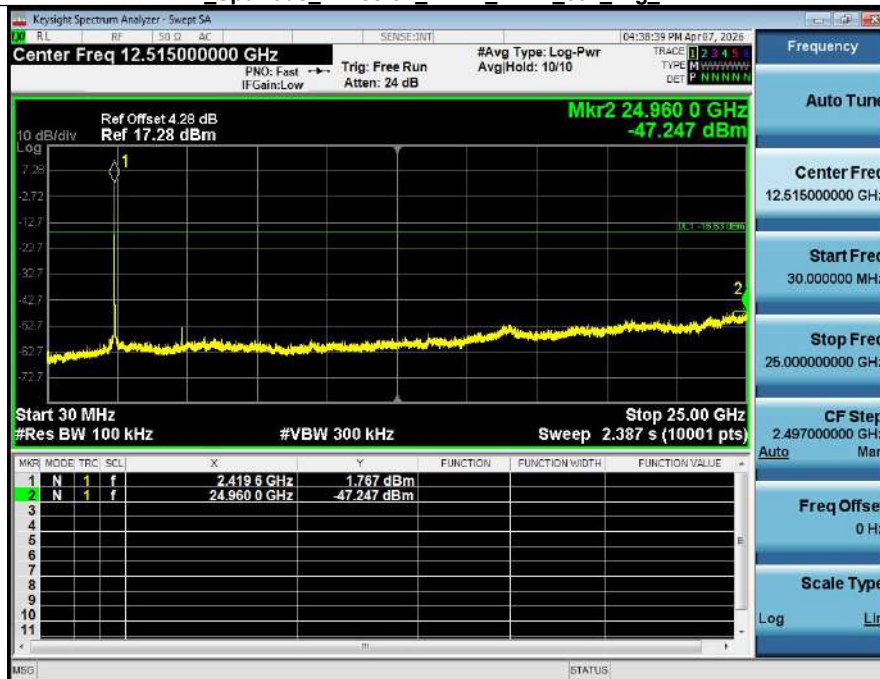
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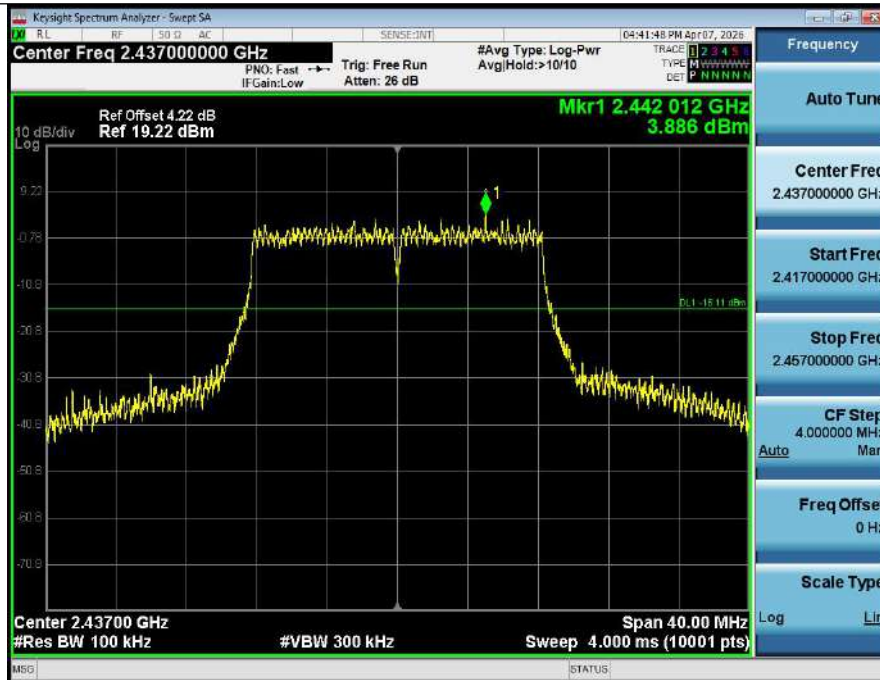
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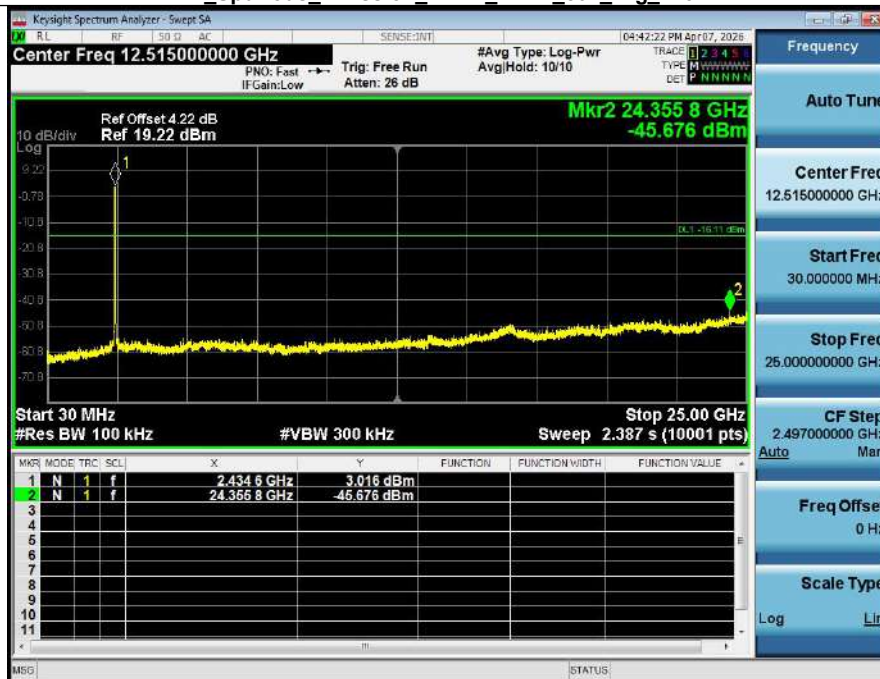
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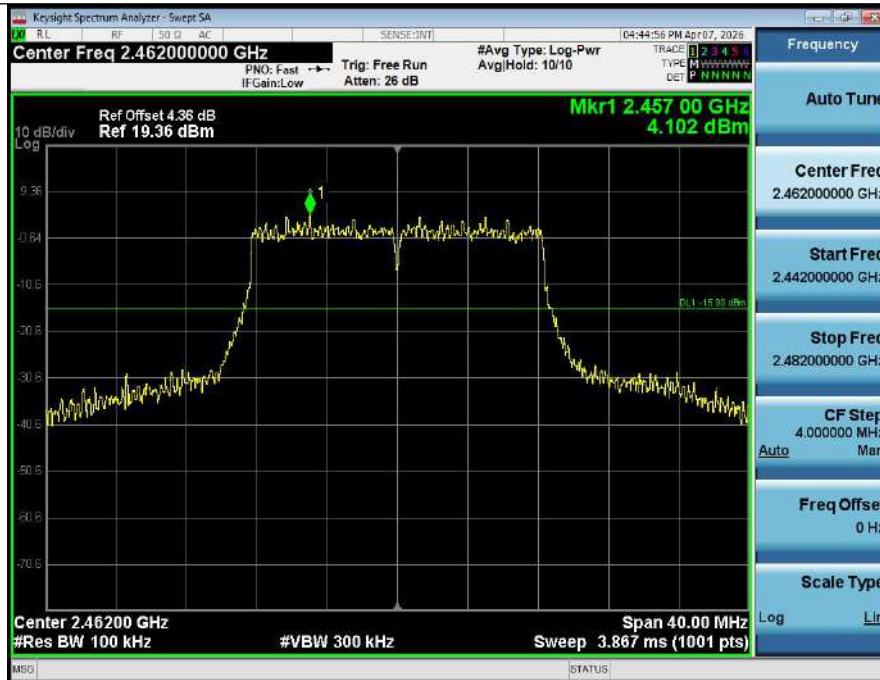
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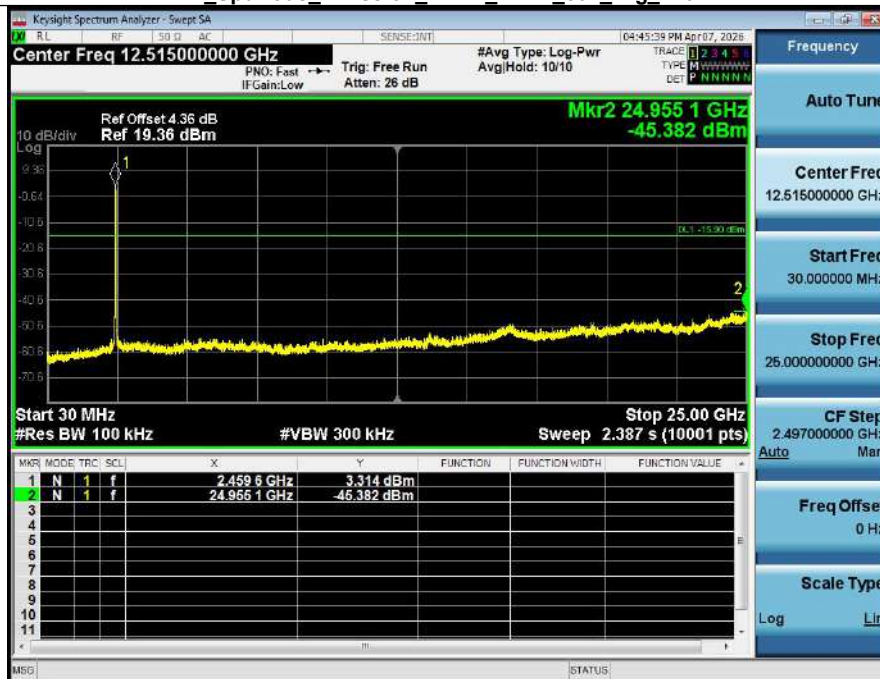
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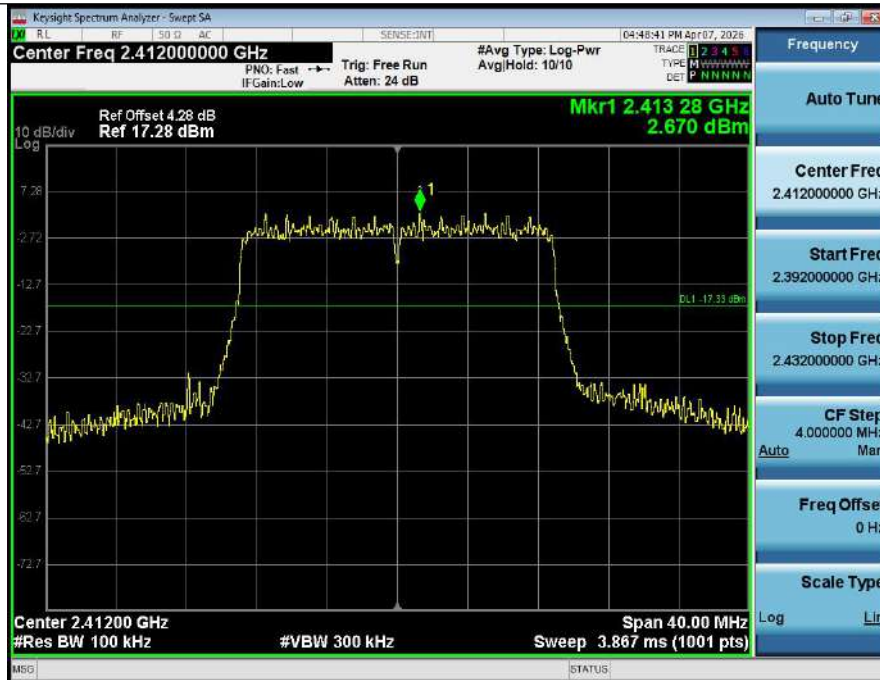
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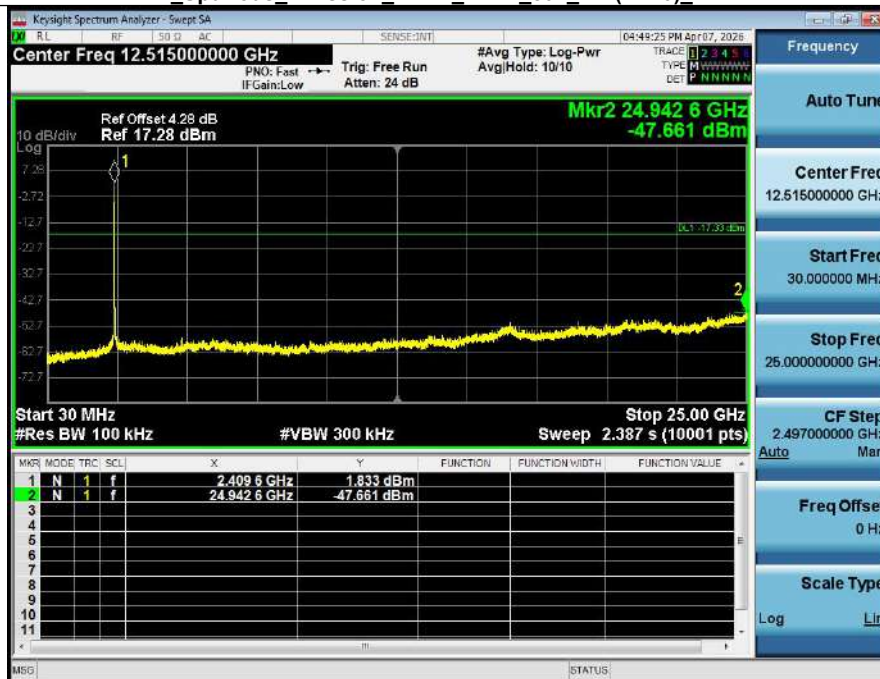
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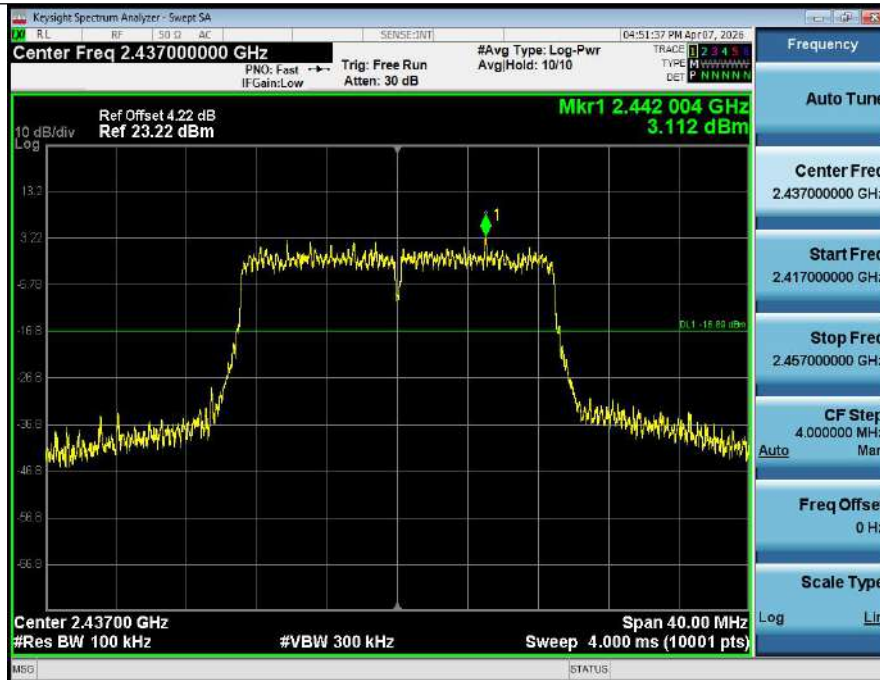
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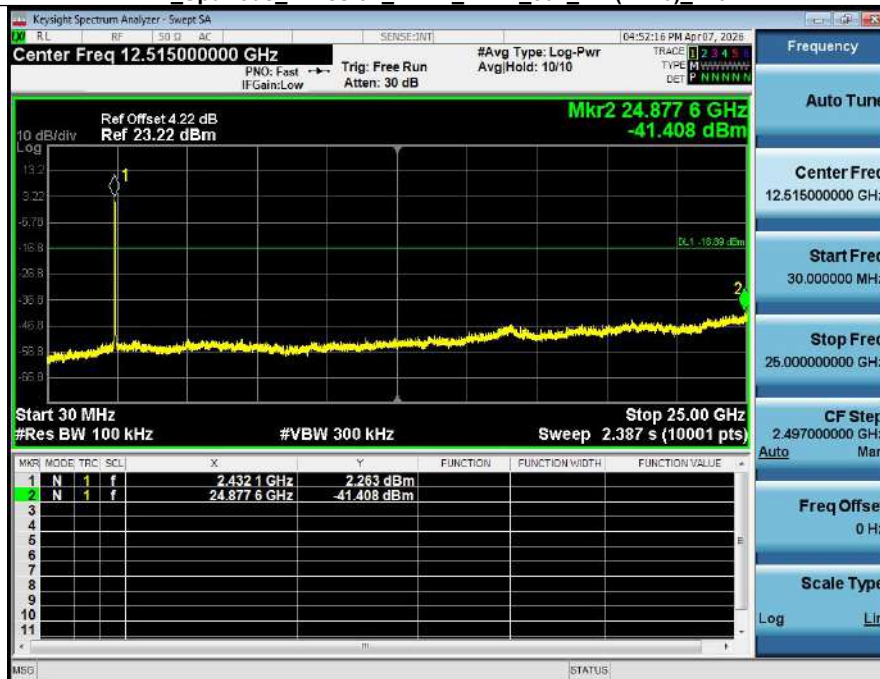
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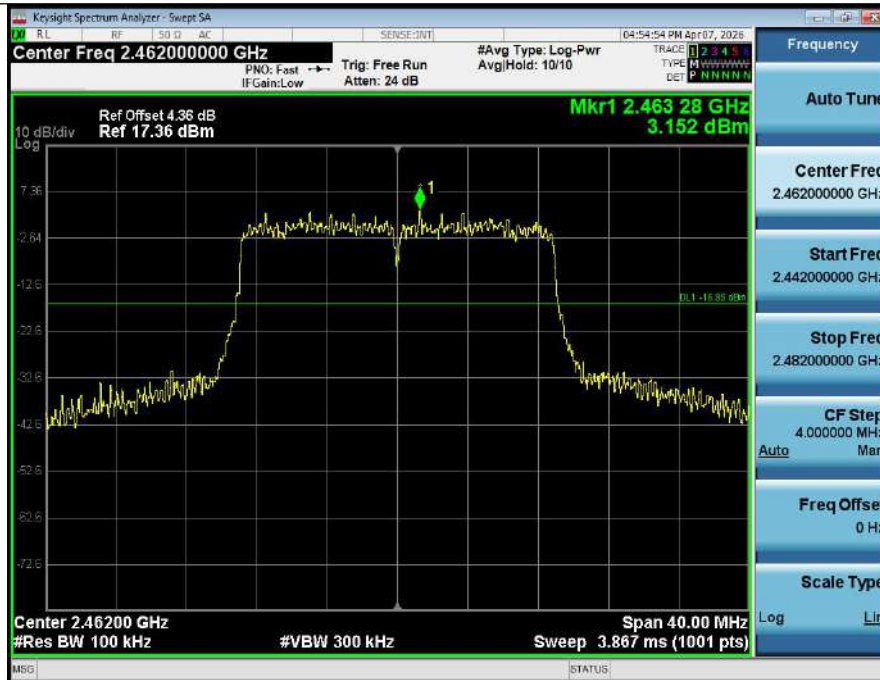
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2 Spurious Emission_NVNT_ANT1_802_11n(HT20)_2437



1 Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2 Spurious Emission_NVNT_ANT1_802_11n(HT20)_2462

