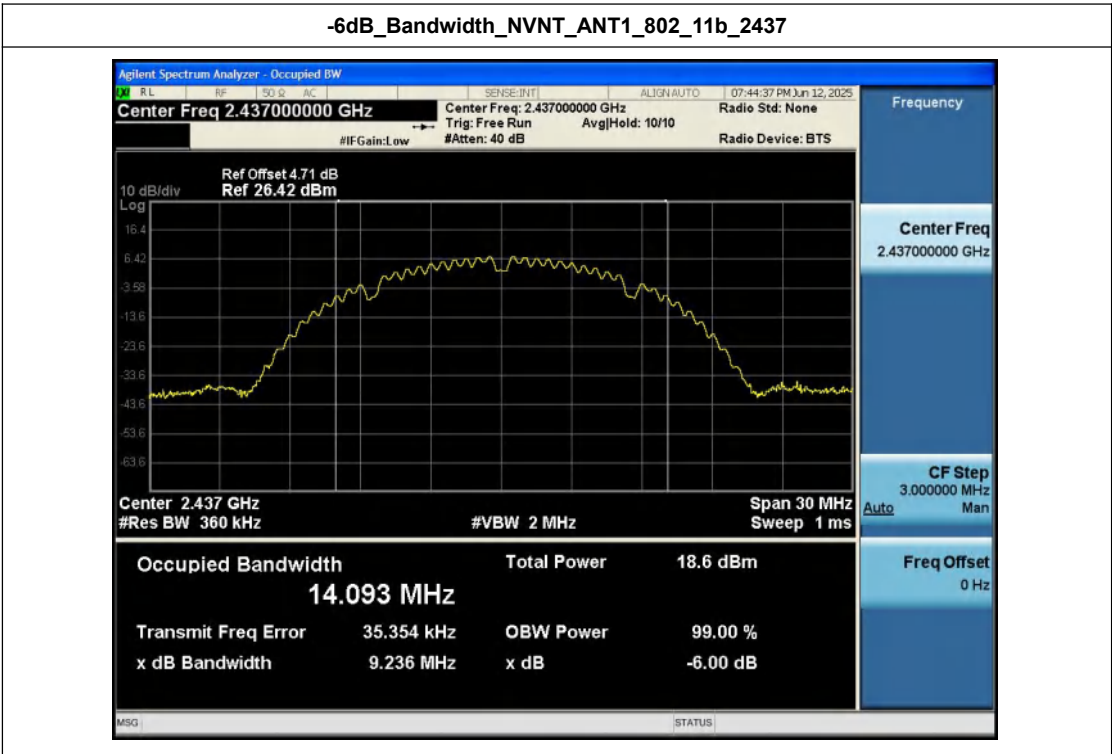
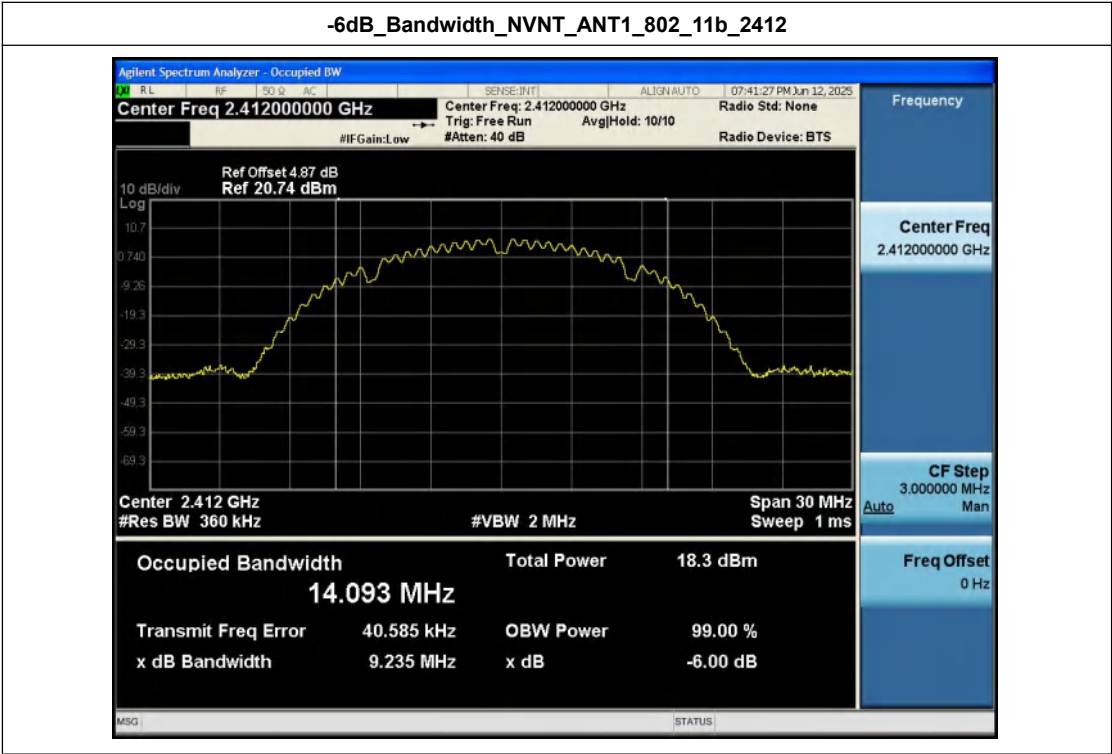


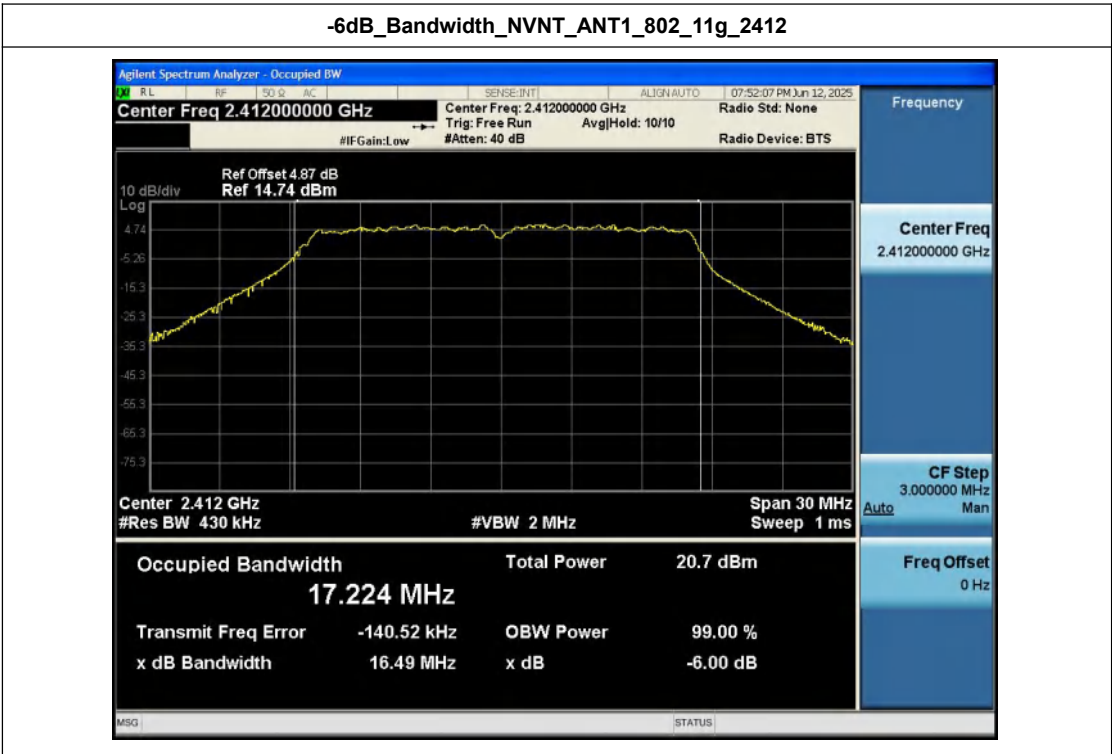
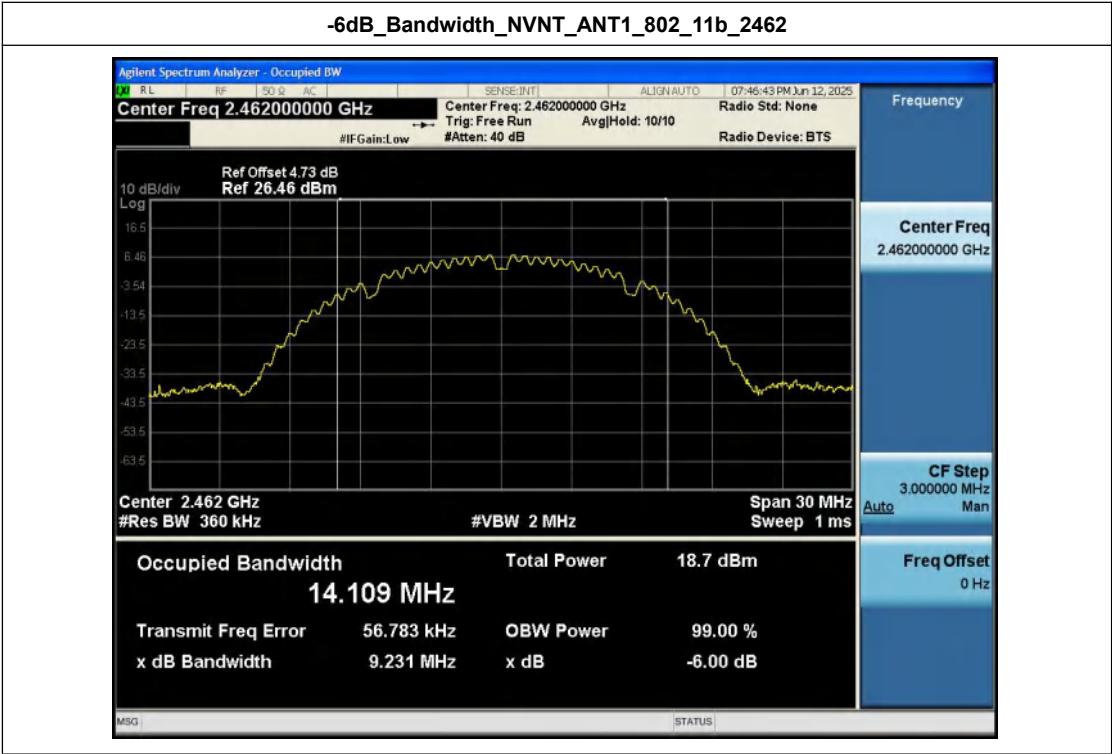
Appendix Test Data

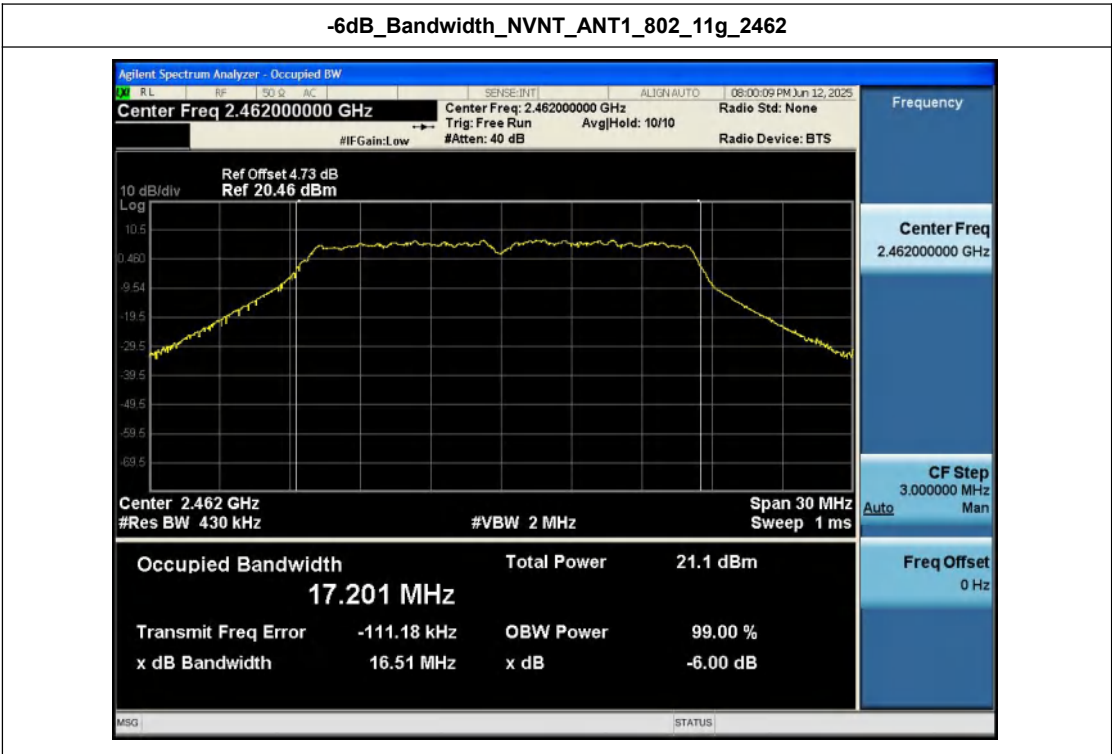
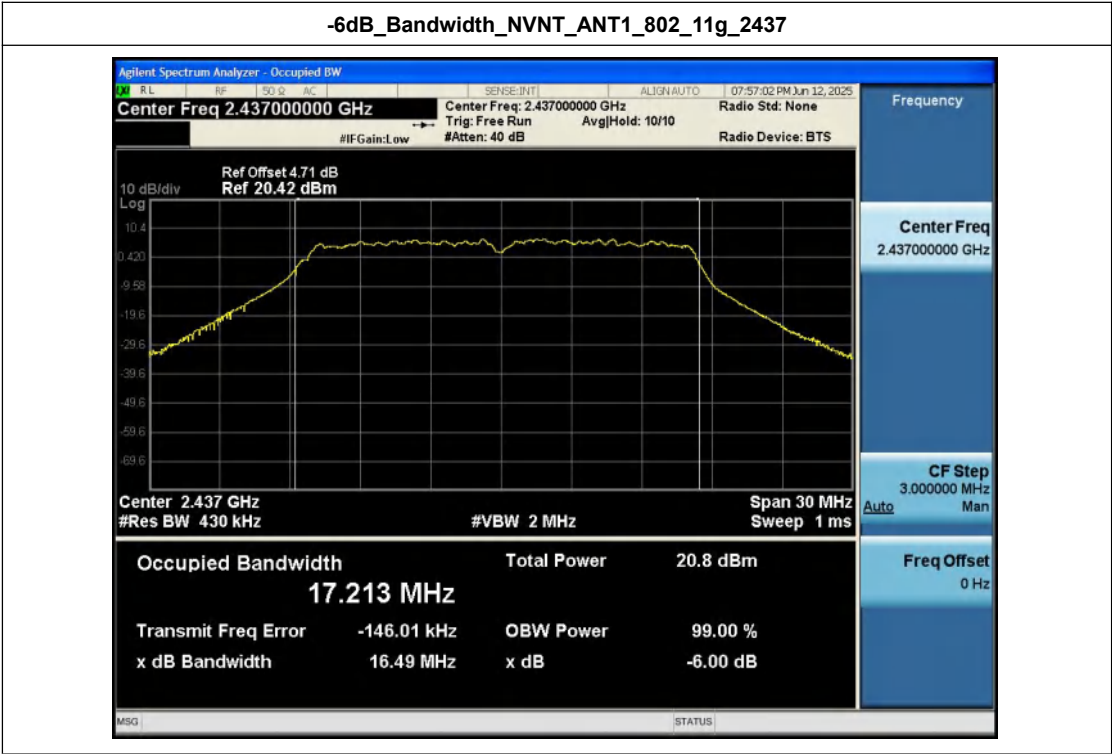
Report No.:	1812C50278212502	Test Sample No.:	1-2-2
Start Test Date:	2025-06-09	Finish Test Date:	2025-06-13
Test Engineer:	<i>Liangfei Yang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	21.5°C	Relative Humidity:	63%
Pressure:	101kPa		

Appendix A: -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.24	500	Pass
NVNT	ANT1	802.11b	2437.00	9.24	500	Pass
NVNT	ANT1	802.11b	2462.00	9.23	500	Pass
NVNT	ANT1	802.11g	2412.00	16.49	500	Pass
NVNT	ANT1	802.11g	2437.00	16.49	500	Pass
NVNT	ANT1	802.11g	2462.00	16.51	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.66	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.69	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.72	500	Pass





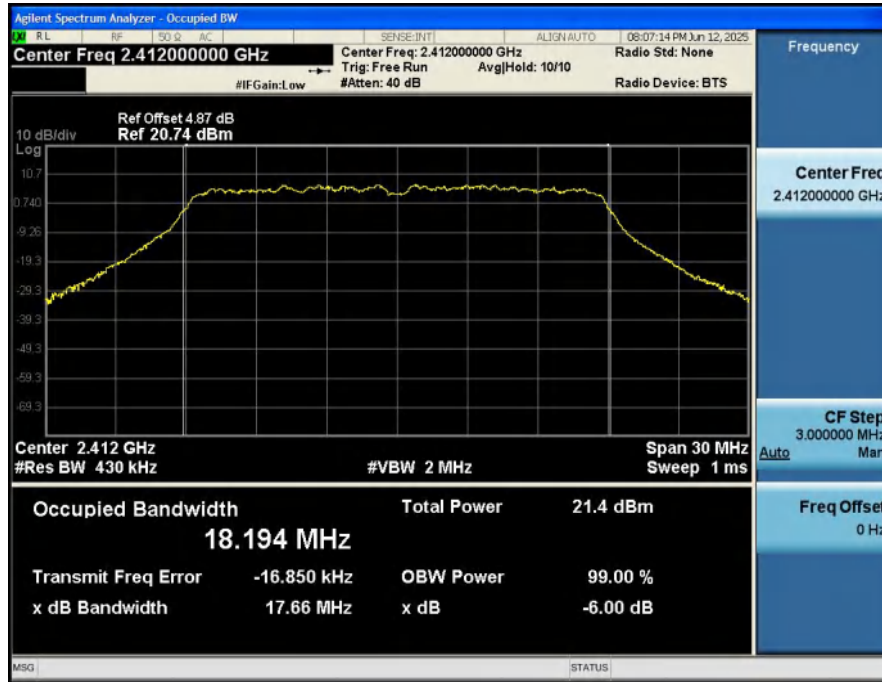


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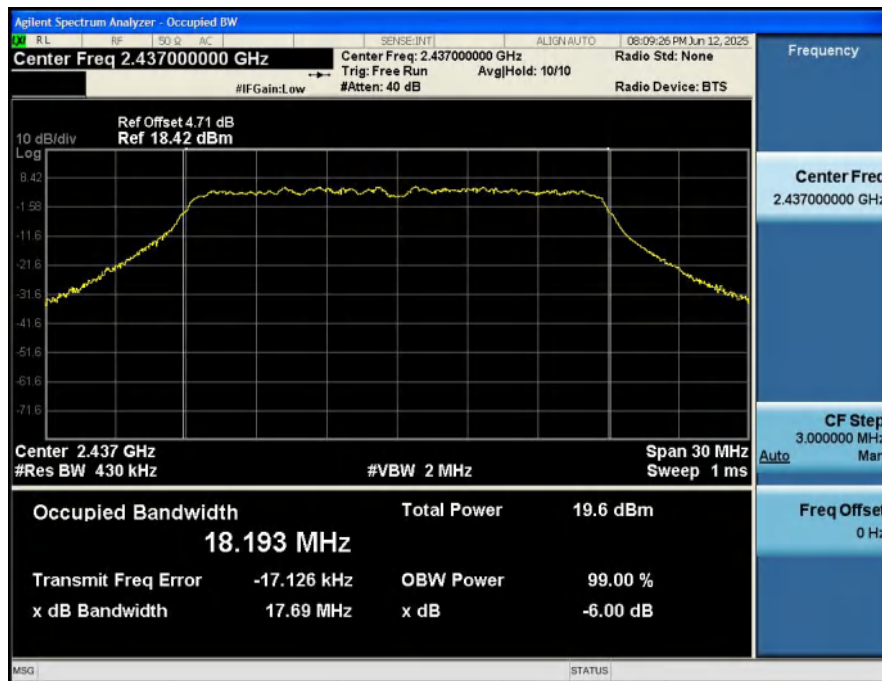
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-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



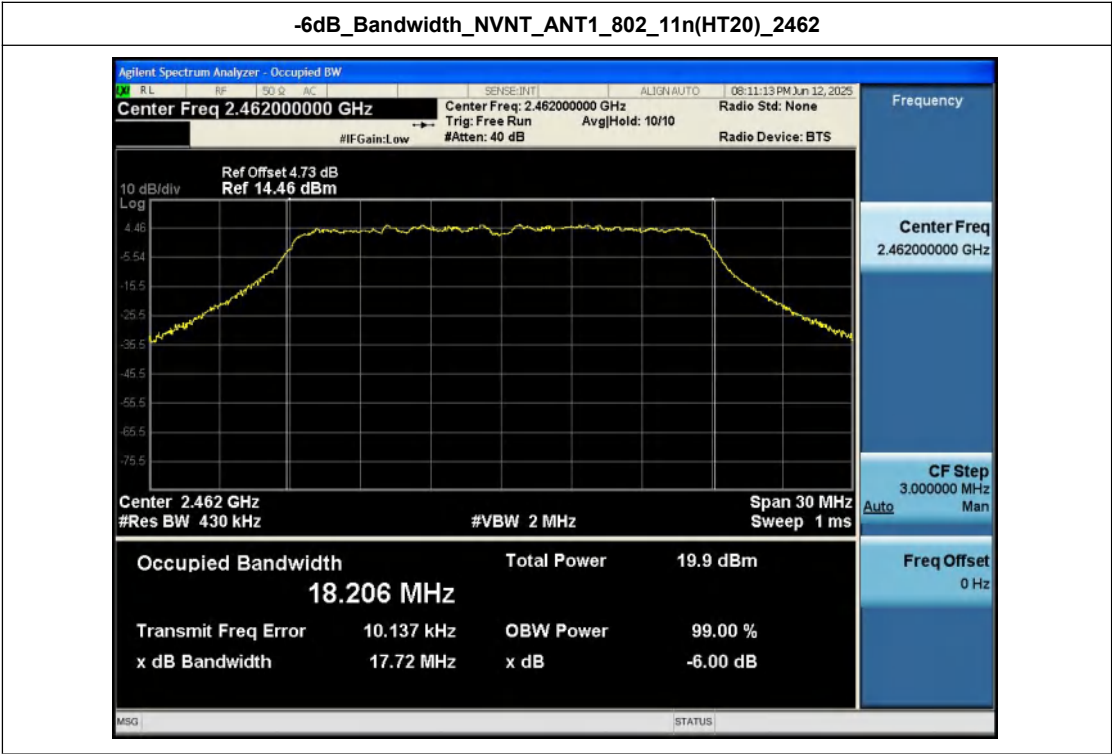
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



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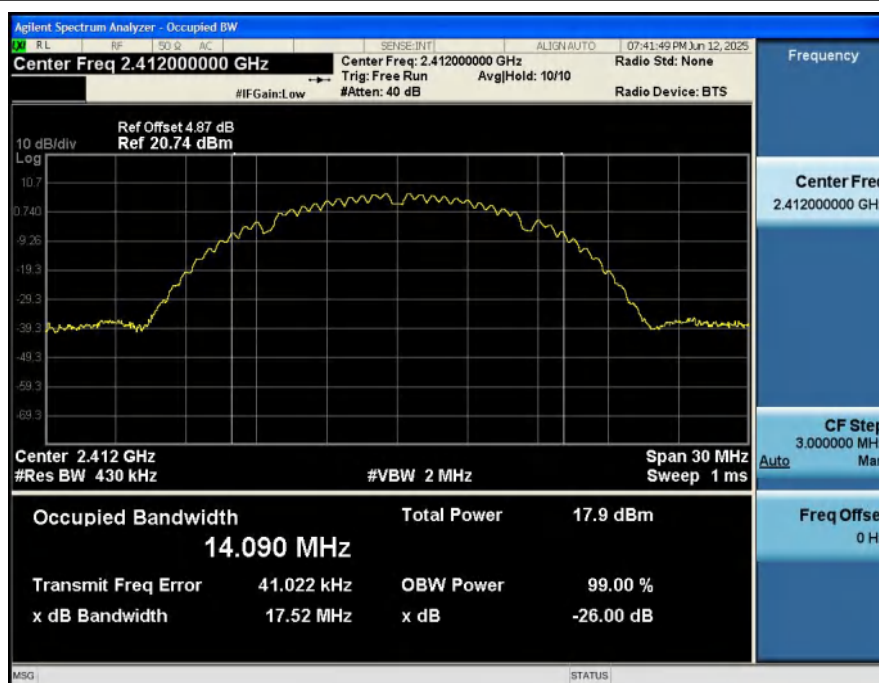
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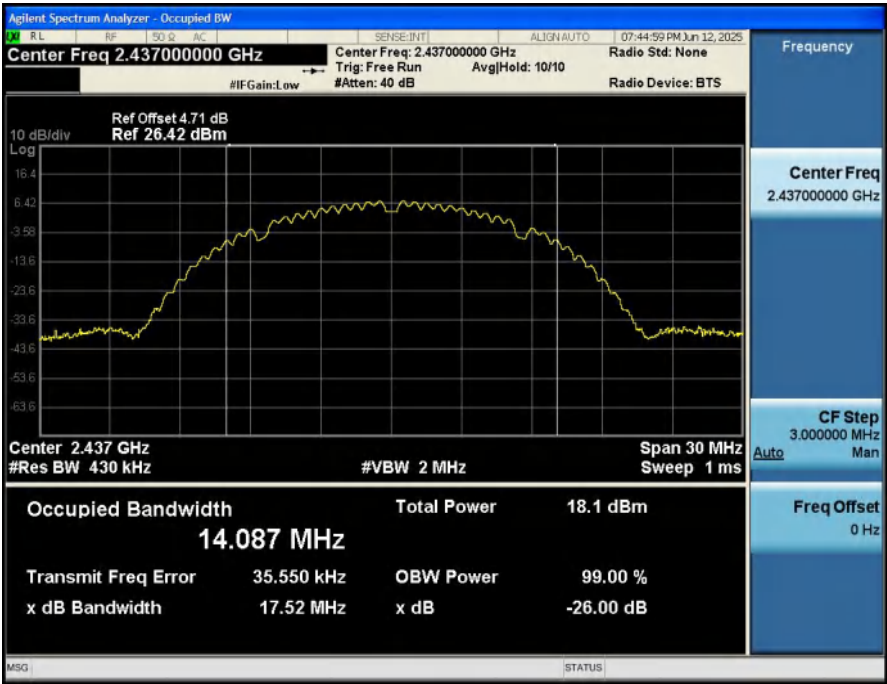
Appendix B: 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	14.090
NVNT	ANT1	802.11b	2437.00	14.087
NVNT	ANT1	802.11b	2462.00	14.106
NVNT	ANT1	802.11g	2412.00	17.450
NVNT	ANT1	802.11g	2437.00	17.434
NVNT	ANT1	802.11g	2462.00	17.452
NVNT	ANT1	802.11n(HT20)	2412.00	18.495
NVNT	ANT1	802.11n(HT20)	2437.00	18.507
NVNT	ANT1	802.11n(HT20)	2462.00	18.506

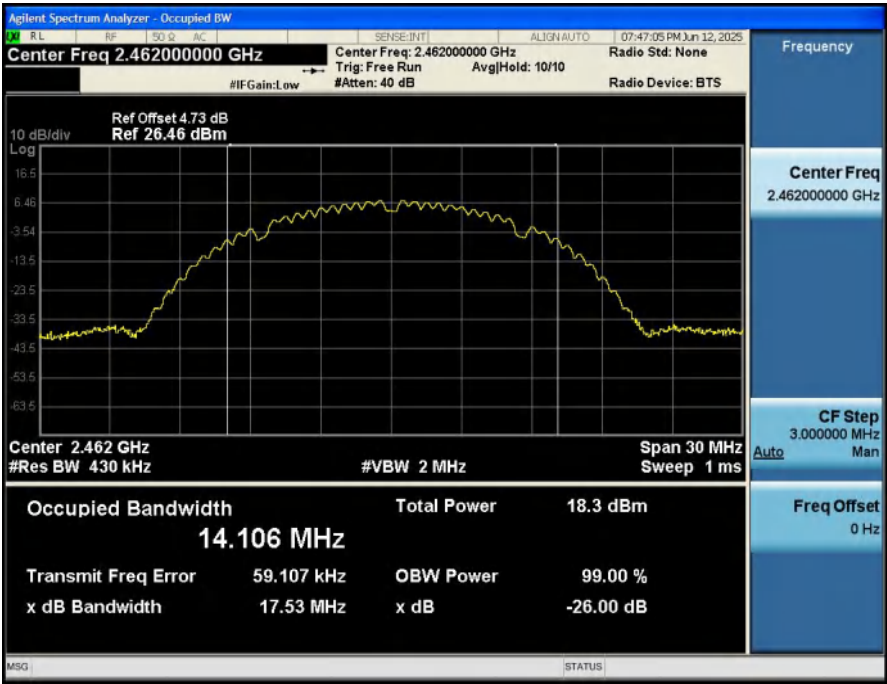
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2412



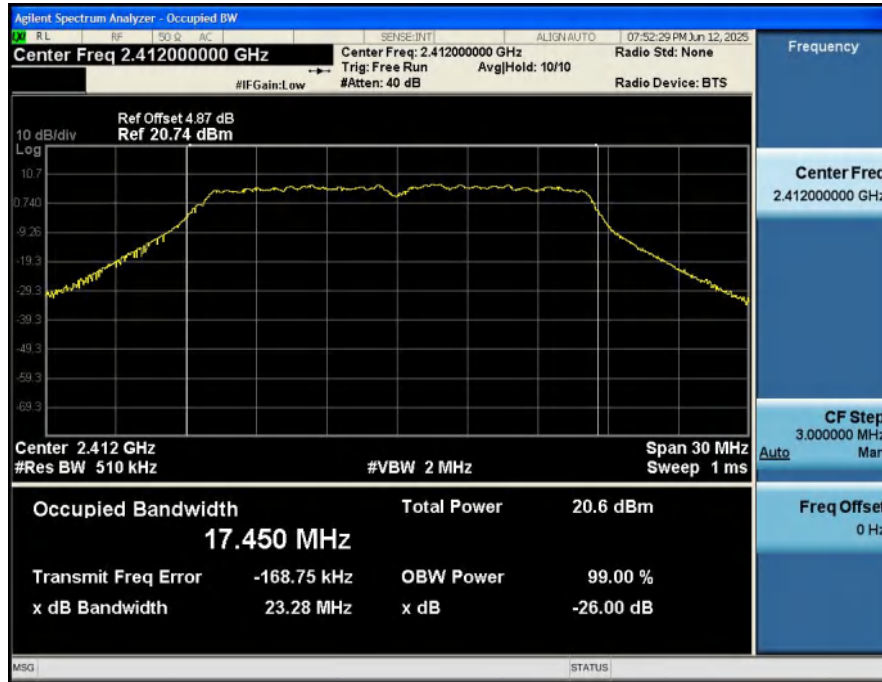
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2437



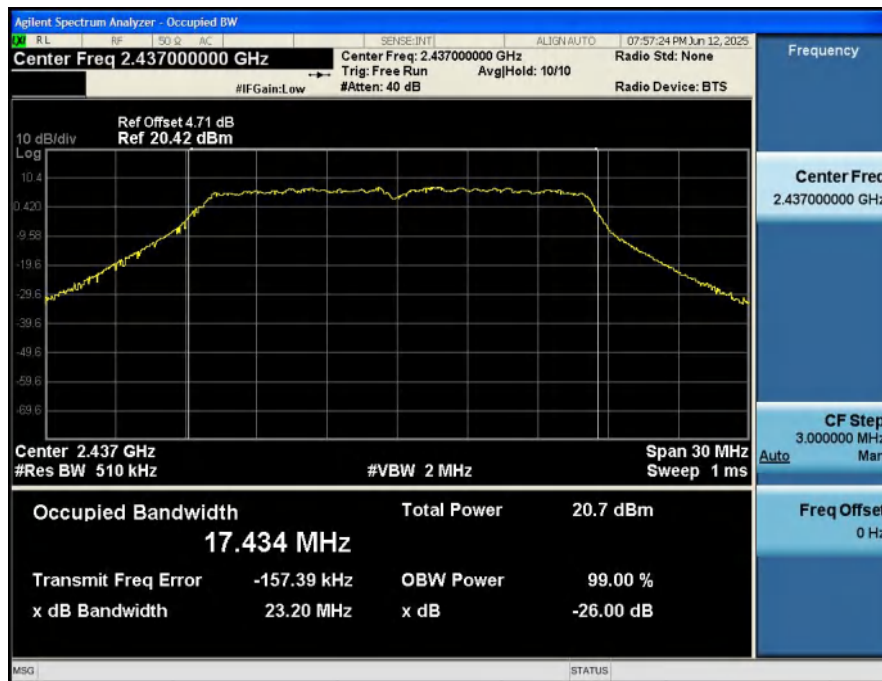
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2462



99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2412



99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2437

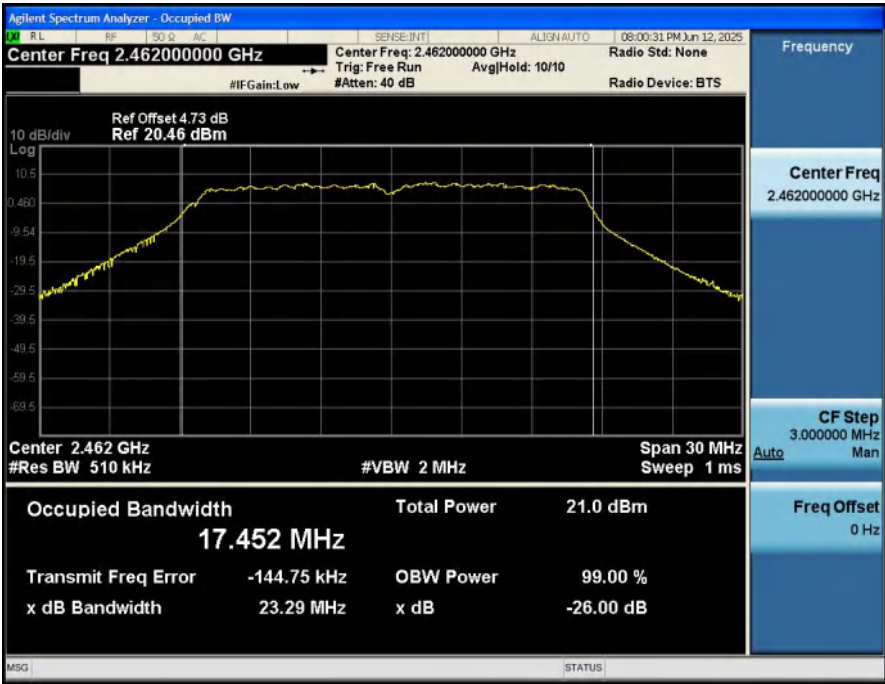


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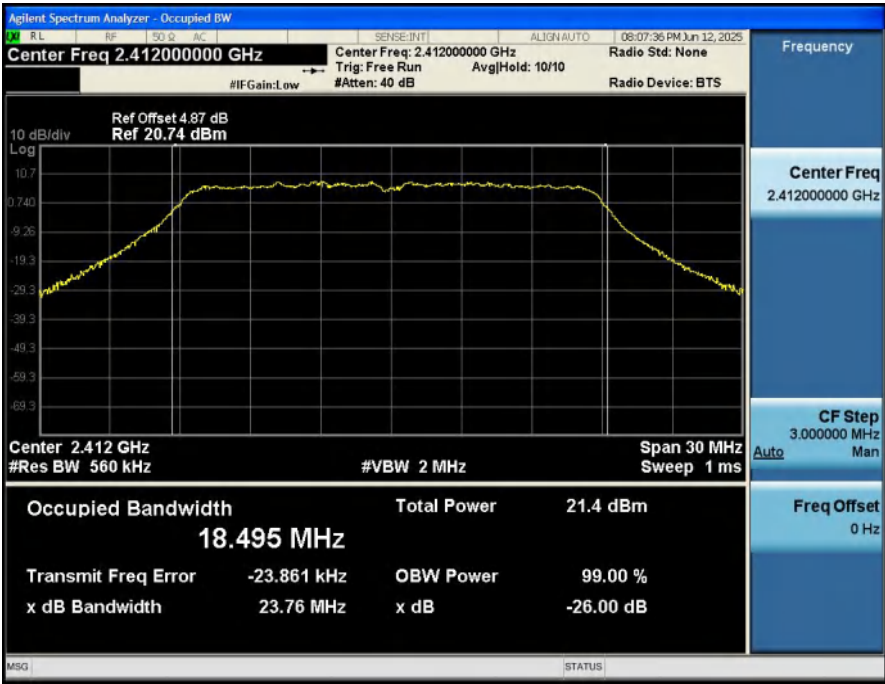
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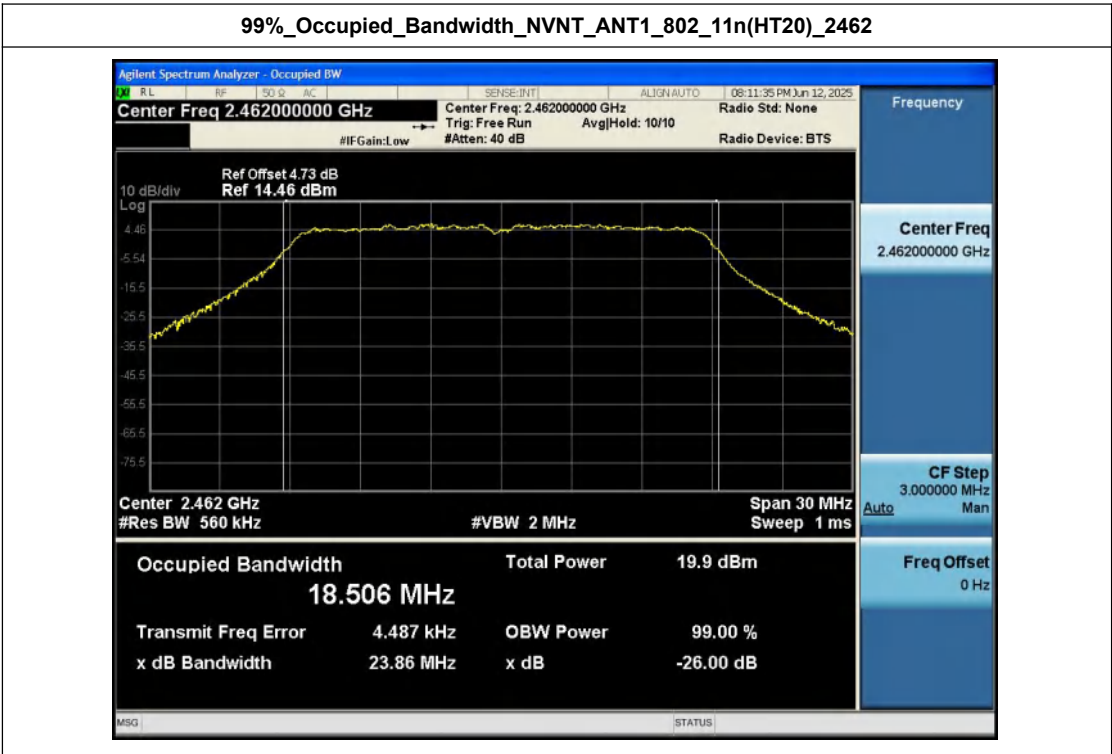
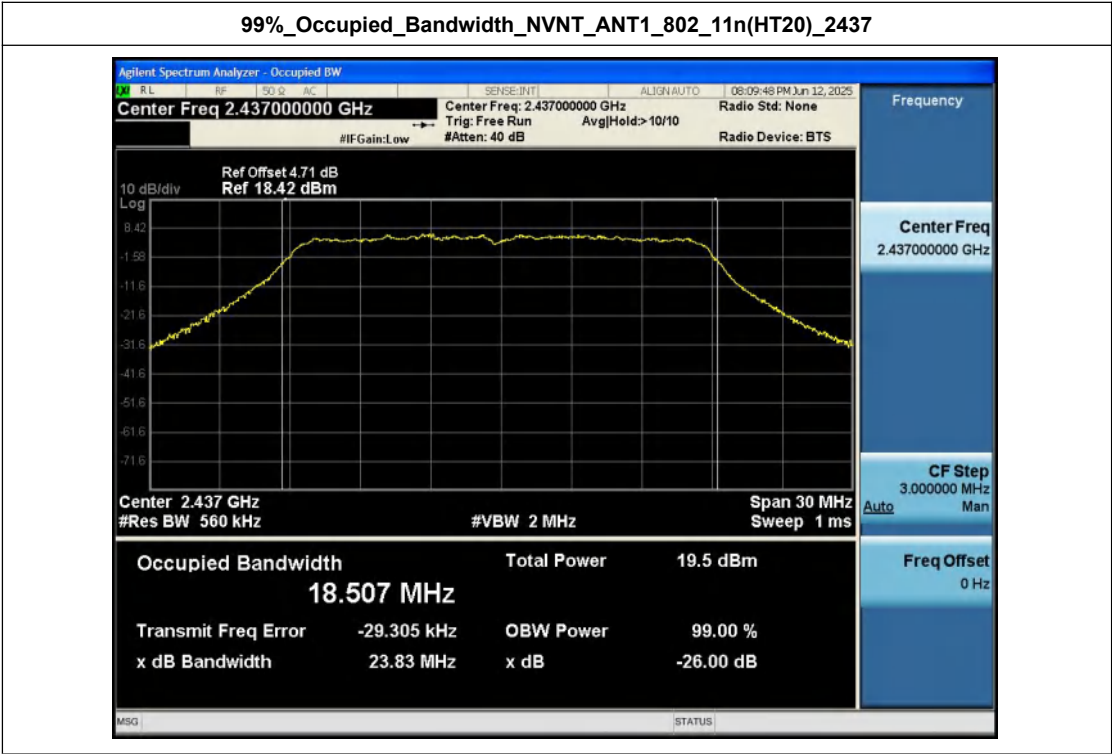
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99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2462



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412





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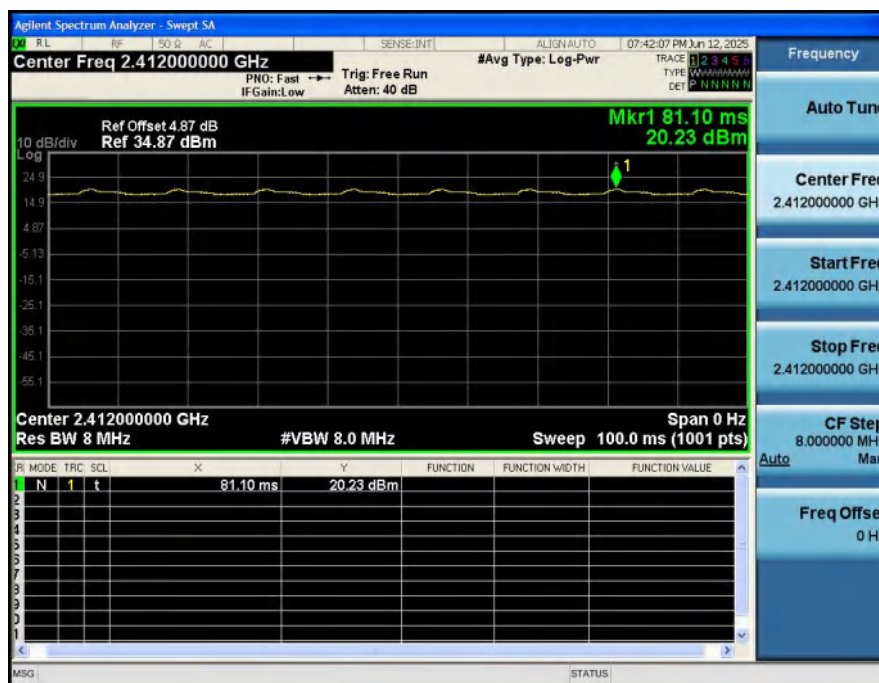
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Appendix C: Duty Cycle

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_2412

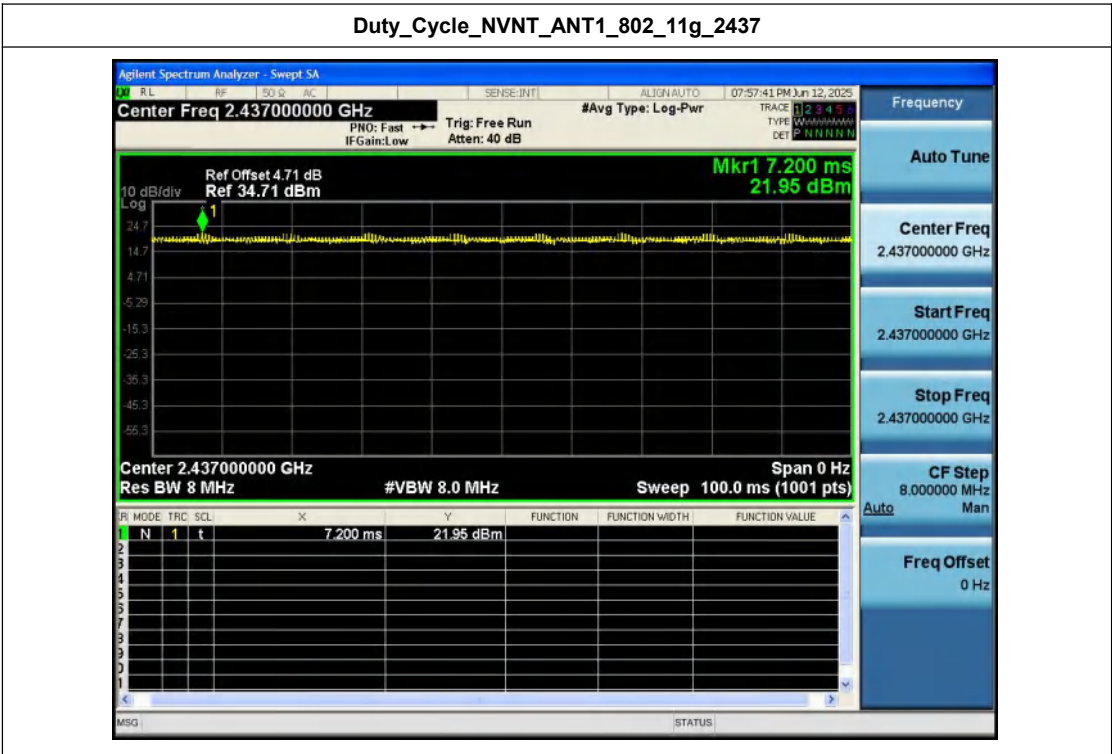
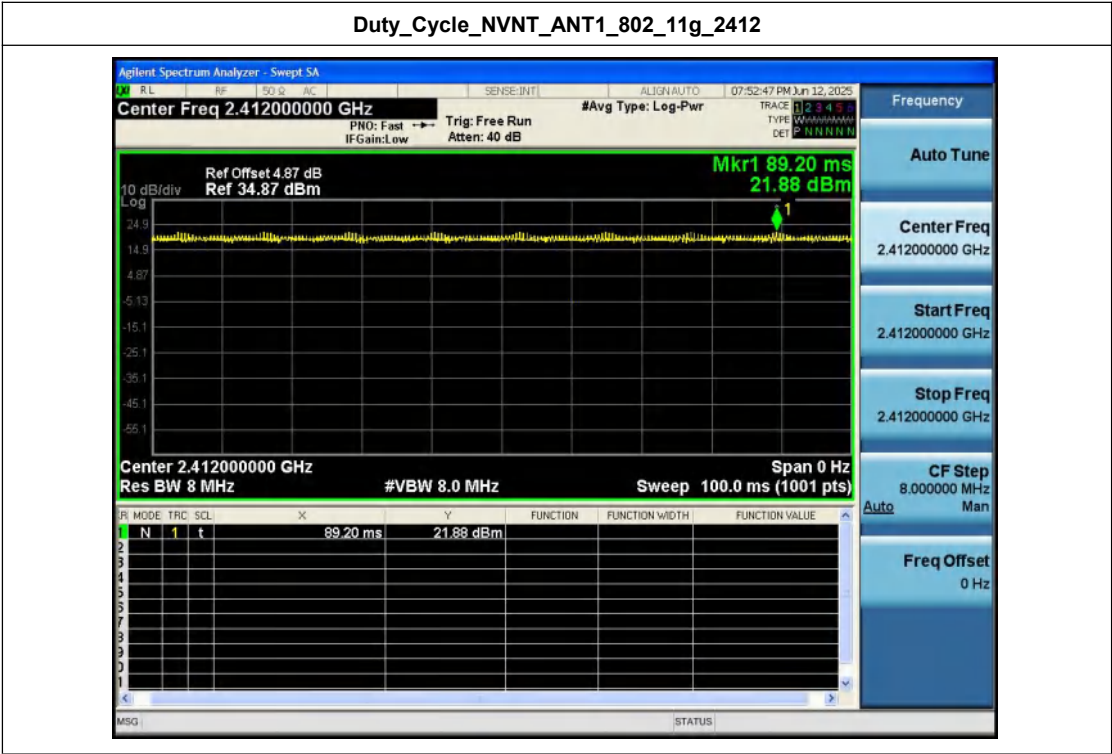


Duty_Cycle_NVNT_ANT1_802_11b_2437

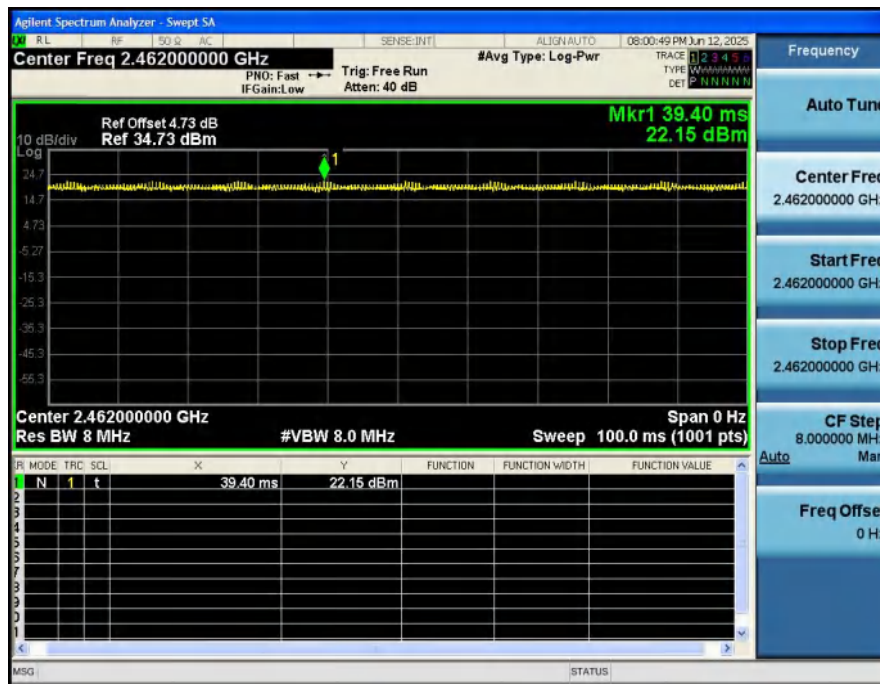


Duty_Cycle_NVNT_ANT1_802_11b_2462

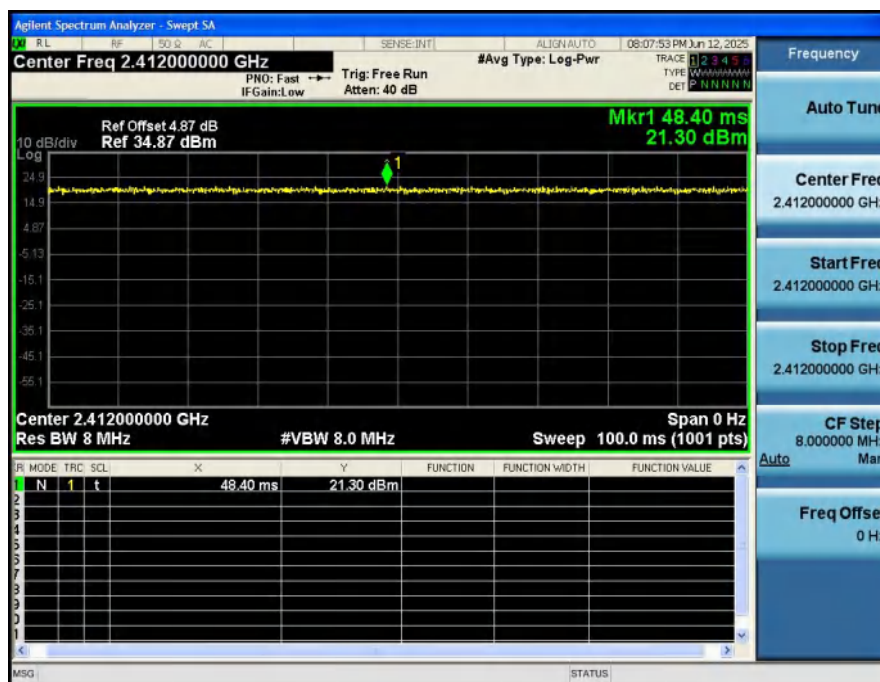




Duty_Cycle_NVNT_ANT1_802_11g_2462



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412

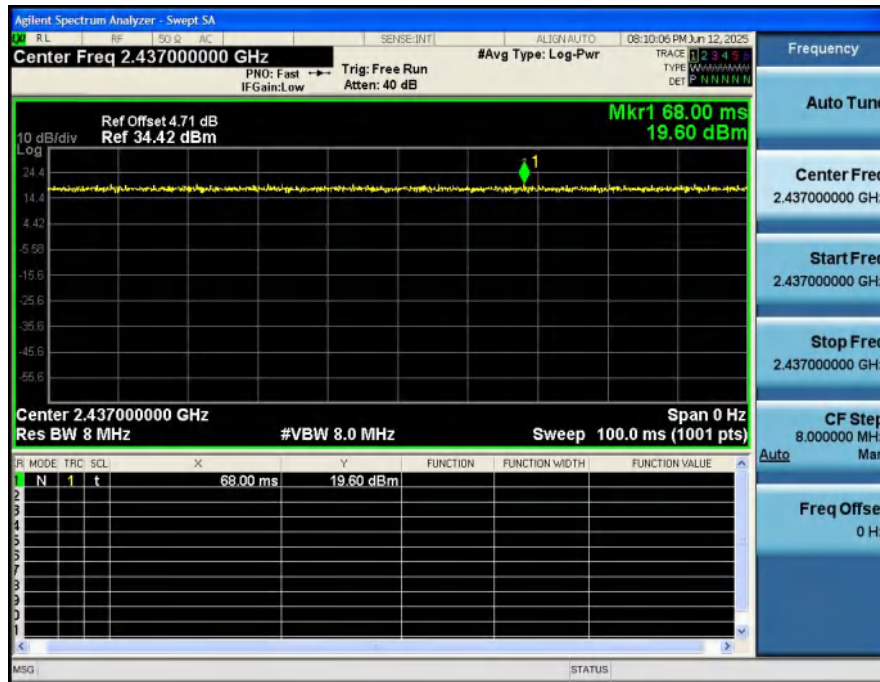


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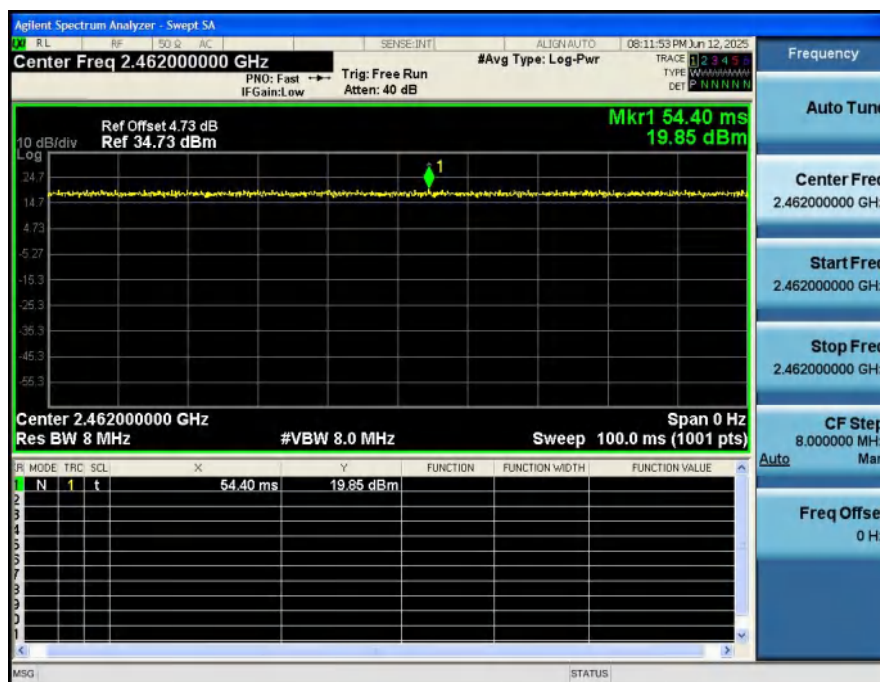
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Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462



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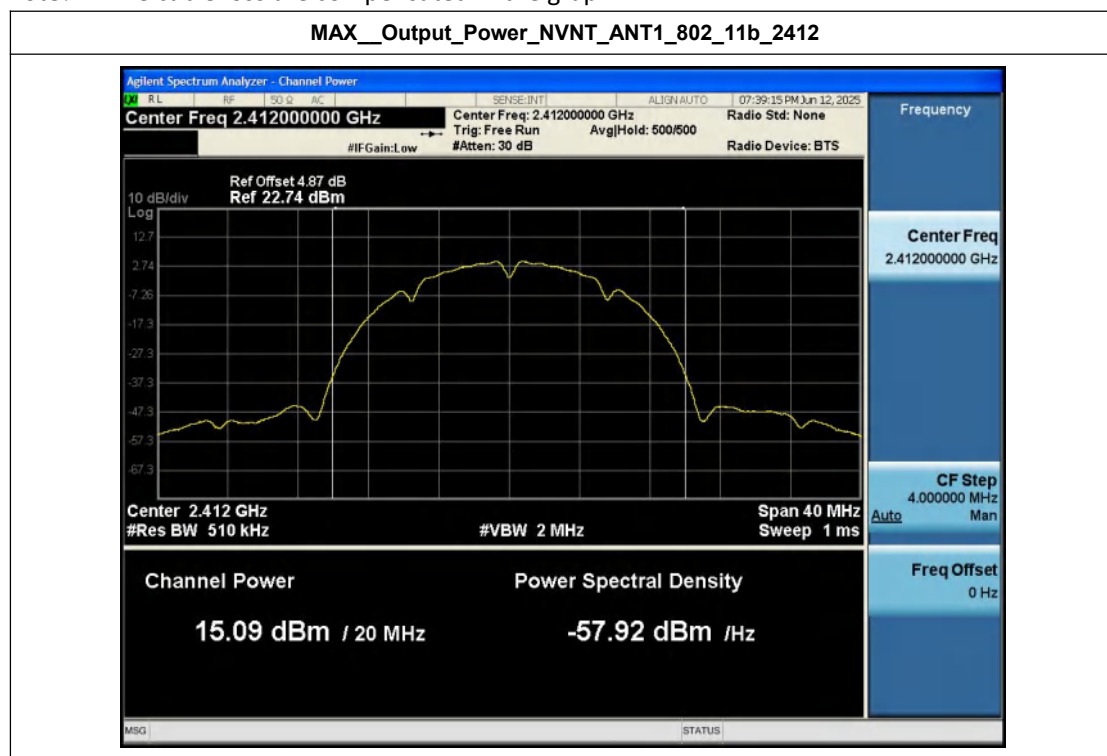
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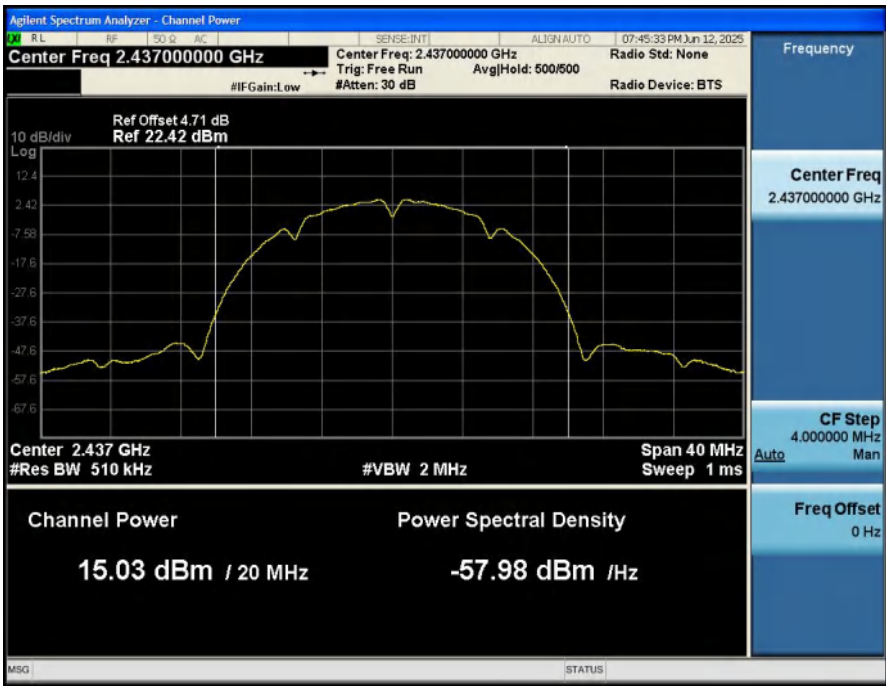
Appendix D: MAX. Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	RMS	15.09	0.00	15.09	30	Pass
NVNT	ANT1	802.11b	2437.00	RMS	15.03	0.00	15.03	30	Pass
NVNT	ANT1	802.11b	2462.00	RMS	15.28	0.00	15.28	30	Pass
NVNT	ANT1	802.11g	2412.00	RMS	13.99	0.00	13.99	30	Pass
NVNT	ANT1	802.11g	2437.00	RMS	14.00	0.00	14.00	30	Pass
NVNT	ANT1	802.11g	2462.00	RMS	14.30	0.00	14.30	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	RMS	14.53	0.00	14.53	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	RMS	12.71	0.00	12.71	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	RMS	13.05	0.00	13.05	30	Pass

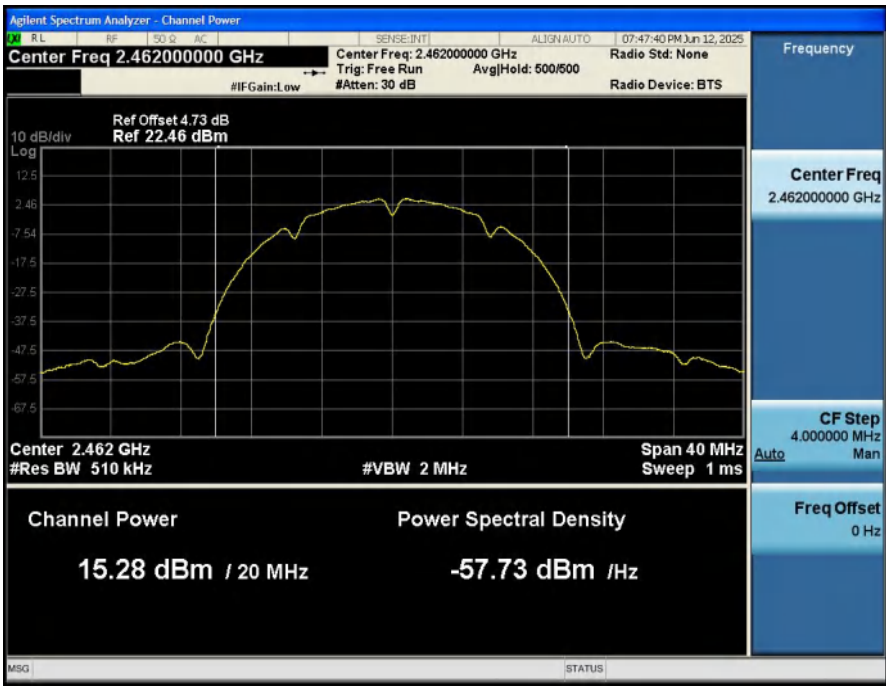
Note: 1.The cable loss are compensated in the graph.



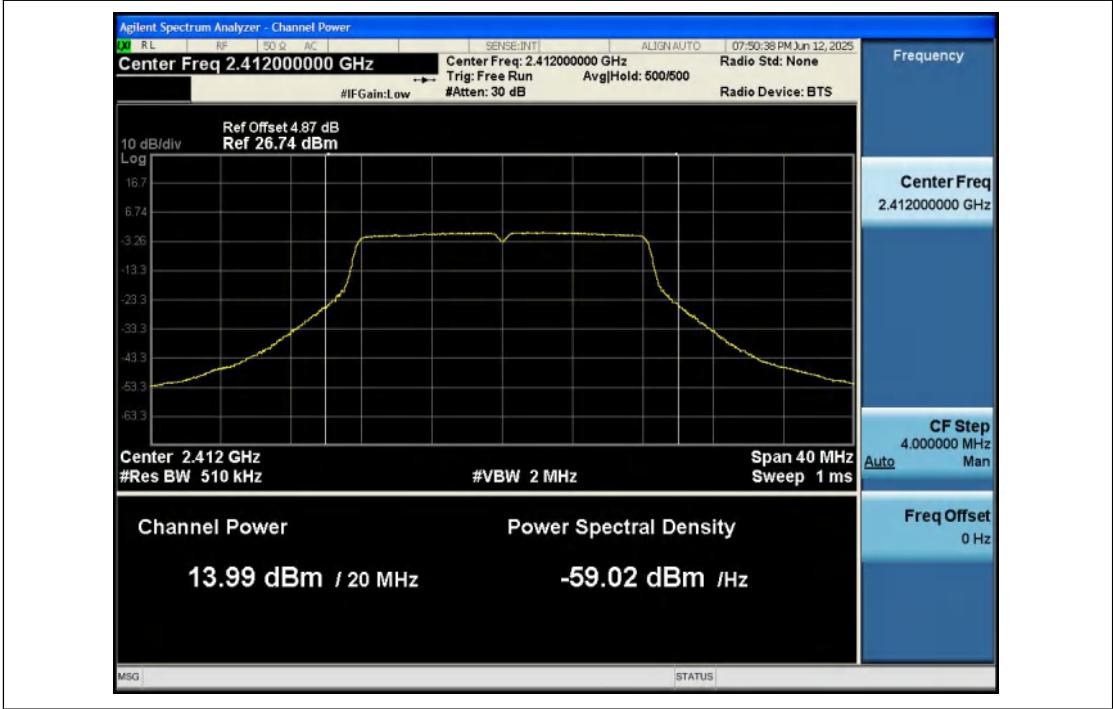
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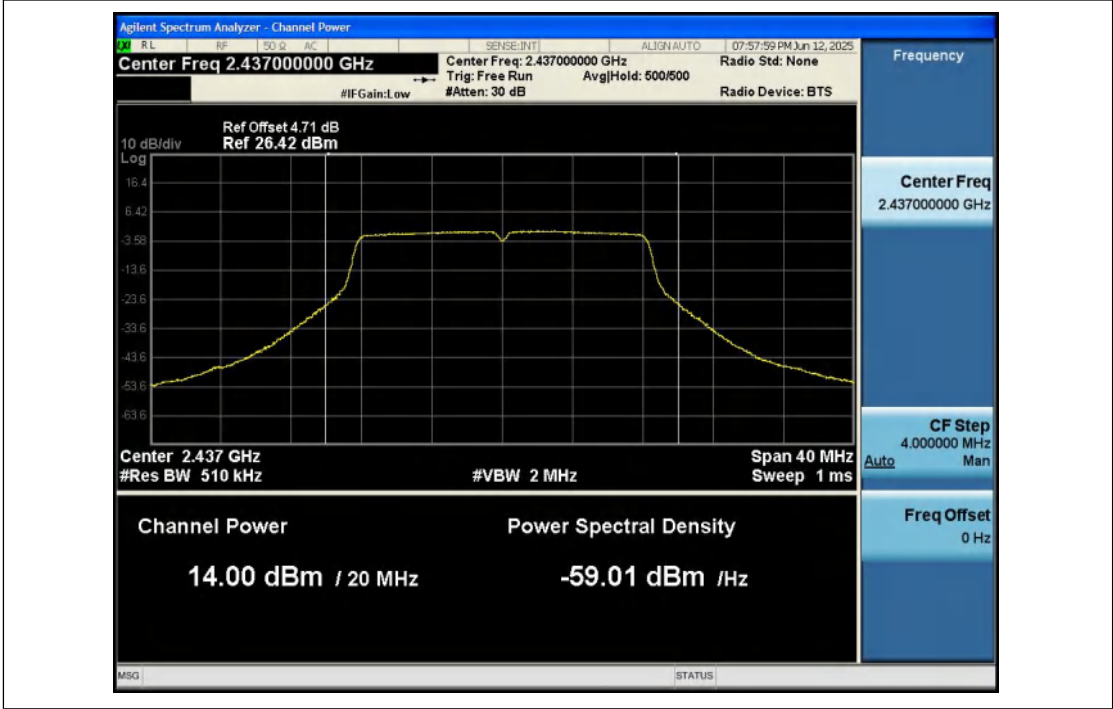
MAX_Output_Power_NVNT_ANT1_802_11b_2462



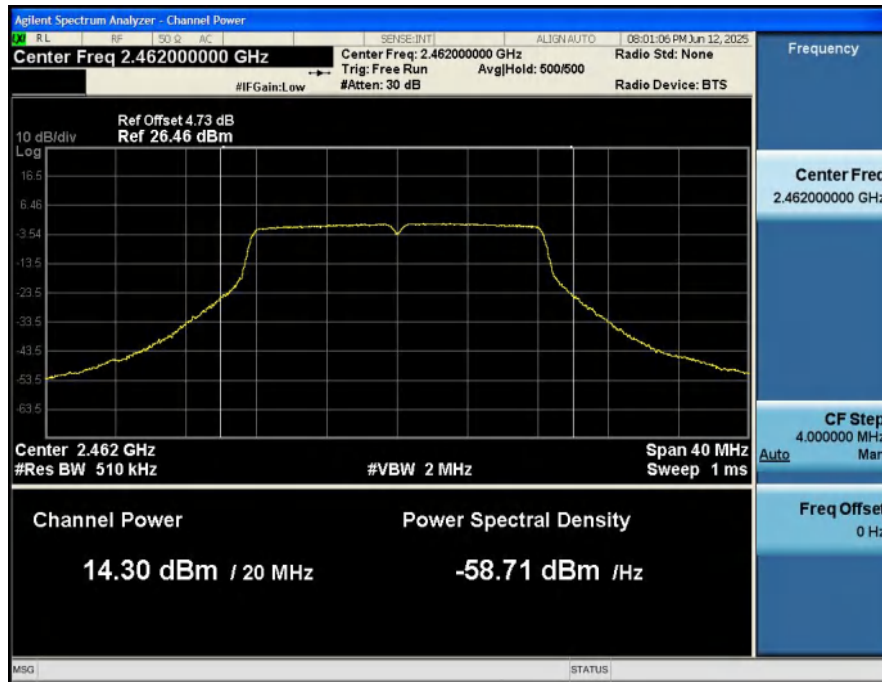
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MAX_Output_Power_NVNT_ANT1_802_11g_2437



MAX__Output_Power_NVNT_ANT1_802_11g_2462



MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2412

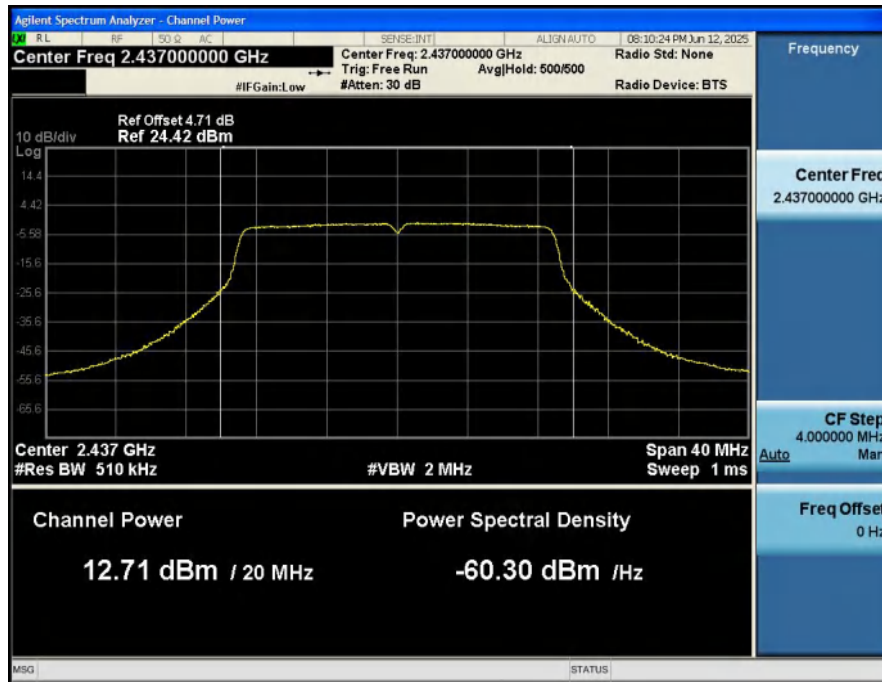


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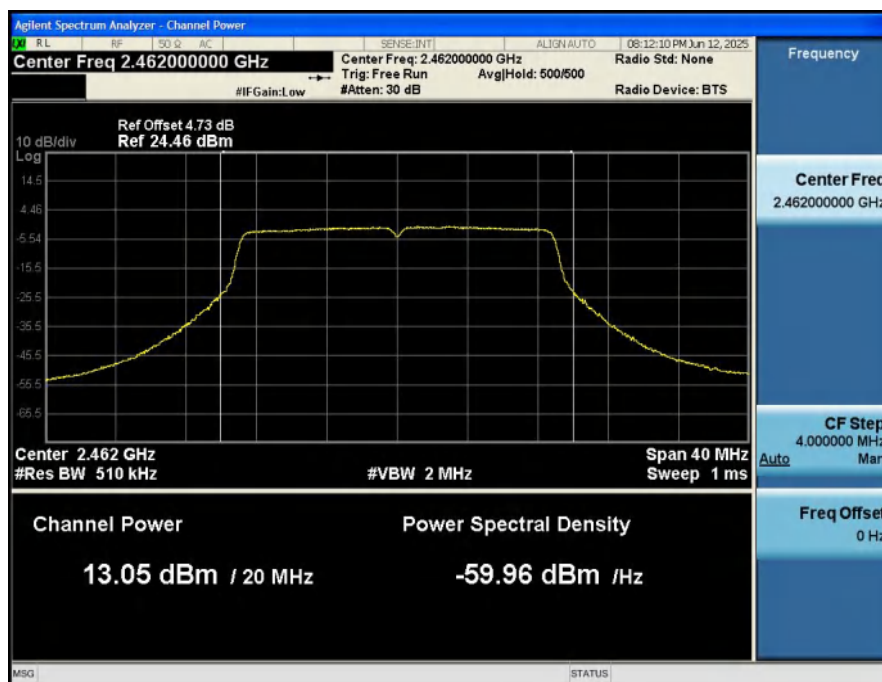
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MAX_Output_Power_NVNT_ANT1_802_11n(HT20)_2437



MAX_Output_Power_NVNT_ANT1_802_11n(HT20)_2462



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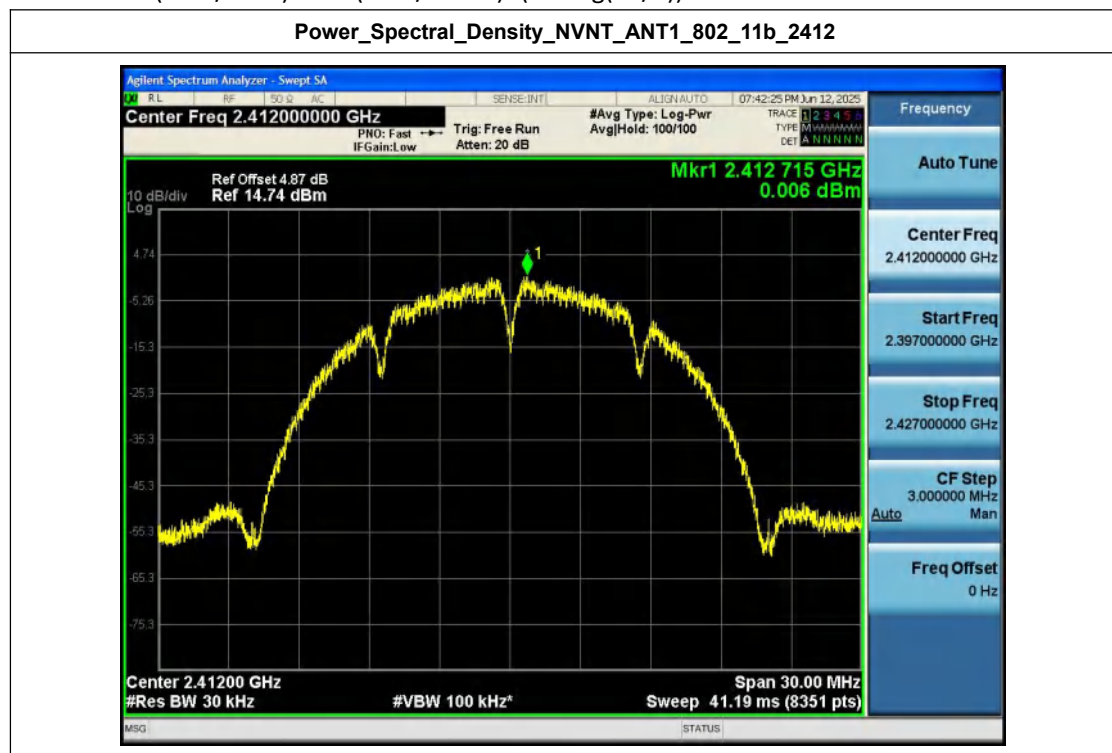
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Appendix E: Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD(dBm/30kHz)	Duty factor(dB)	RB factor(dB)	PSD(dBm/3 kHz)	limit(dBm/3 kHz)	Result
NVNT	ANT1	802.11b	2412.00	0.01	0.00	-10.00	-9.99	8	Pass
NVNT	ANT1	802.11b	2437.00	0.17	0.00	-10.00	-9.83	8	Pass
NVNT	ANT1	802.11b	2462.00	0.49	0.00	-10.00	-9.51	8	Pass
NVNT	ANT1	802.11g	2412.00	-3.48	0.00	-10.00	-13.48	8	Pass
NVNT	ANT1	802.11g	2437.00	-3.31	0.00	-10.00	-13.31	8	Pass
NVNT	ANT1	802.11g	2462.00	-2.98	0.00	-10.00	-12.98	8	Pass
NVNT	ANT1	802.11n(HT 20)	2412.00	-2.15	0.00	-10.00	-12.15	8	Pass
NVNT	ANT1	802.11n(HT 20)	2437.00	-4.15	0.00	-10.00	-14.15	8	Pass
NVNT	ANT1	802.11n(HT 20)	2462.00	-3.42	0.00	-10.00	-13.42	8	Pass

Note: 1.The cable loss are compensated in the graph.
2. $PSD(dBm/3kHz) = PSD(dBm/30kHz) - (10 \cdot \log(30/3))$.



Power_Spectral_Density_NVNT_ANT1_802_11b_2437



Power_Spectral_Density_NVNT_ANT1_802_11b_2462

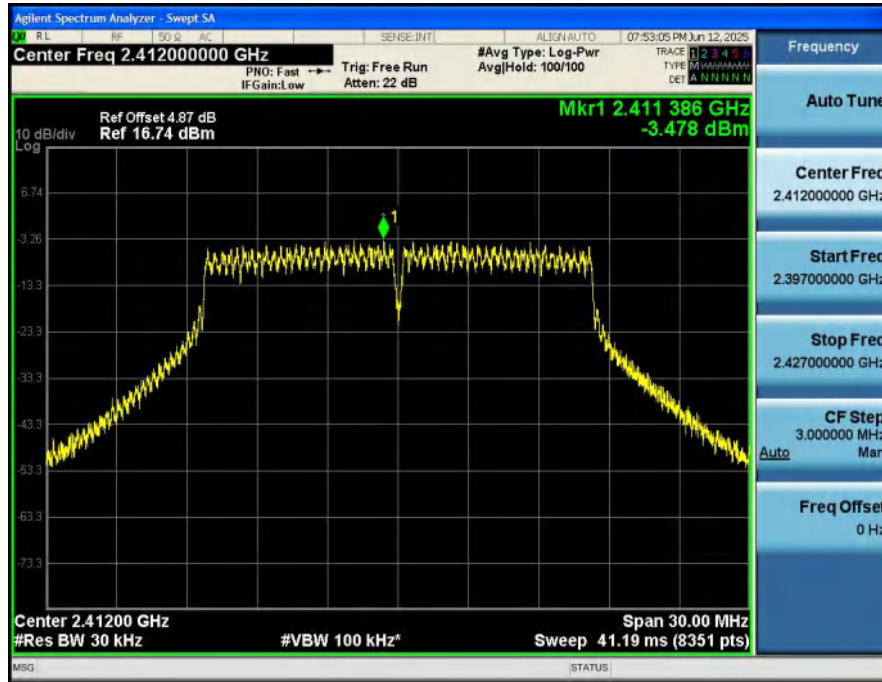


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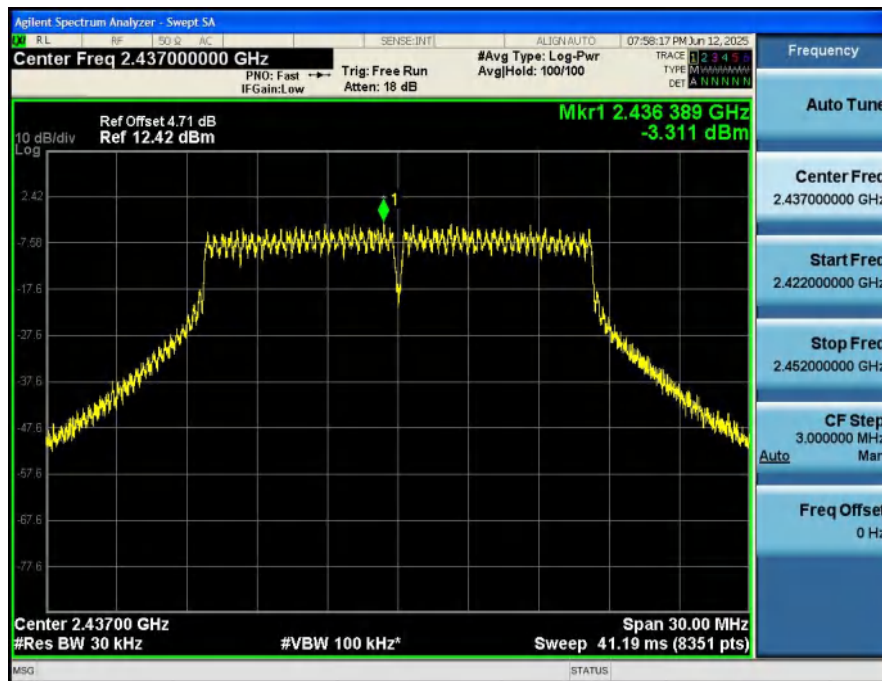
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Power_Spectral_Density_NVNT_ANT1_802_11g_2412



Power_Spectral_Density_NVNT_ANT1_802_11g_2437

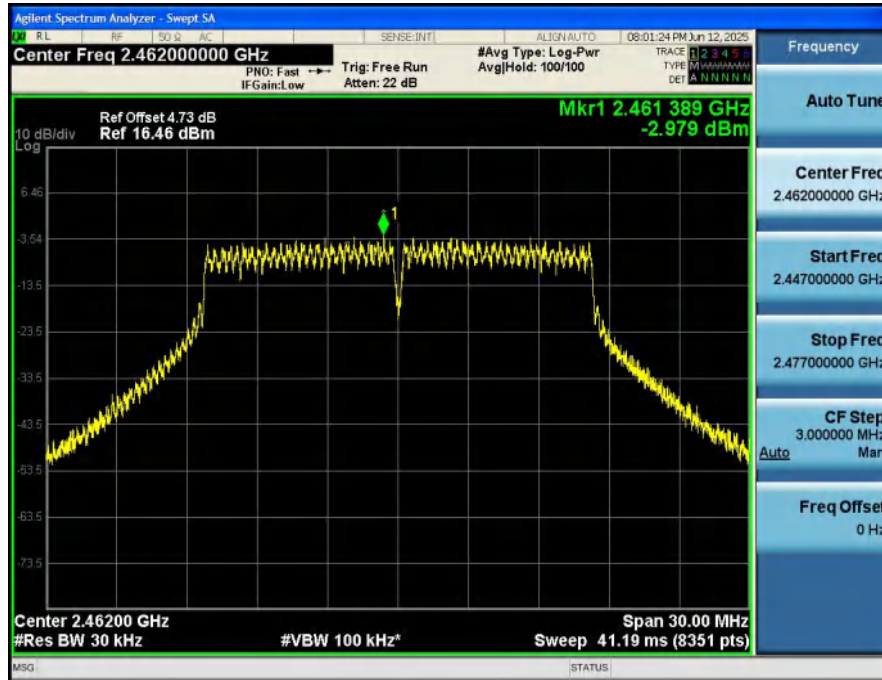


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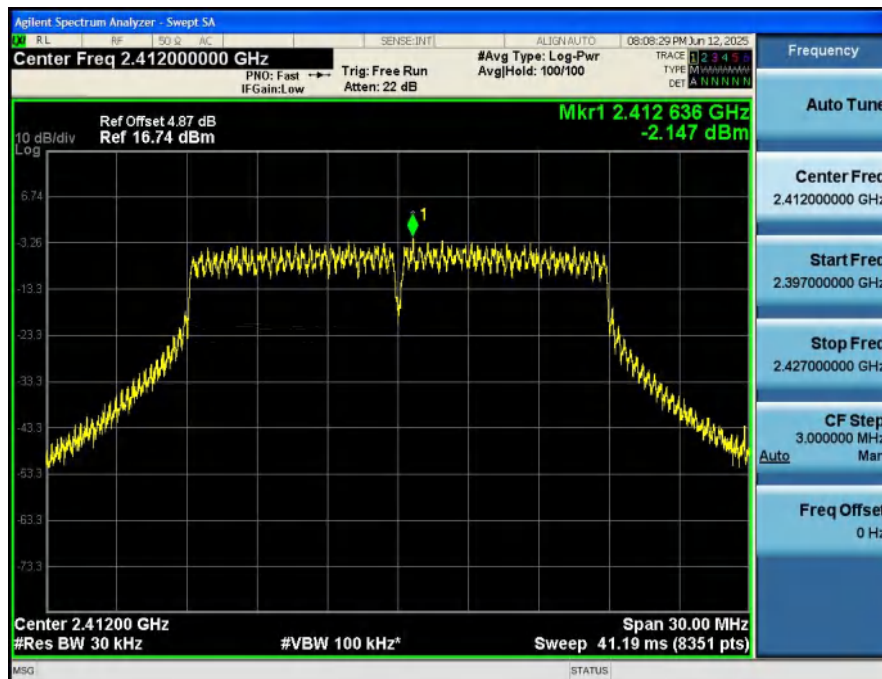
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Power_Spectral_Density_NVNT_ANT1_802_11g_2462



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412

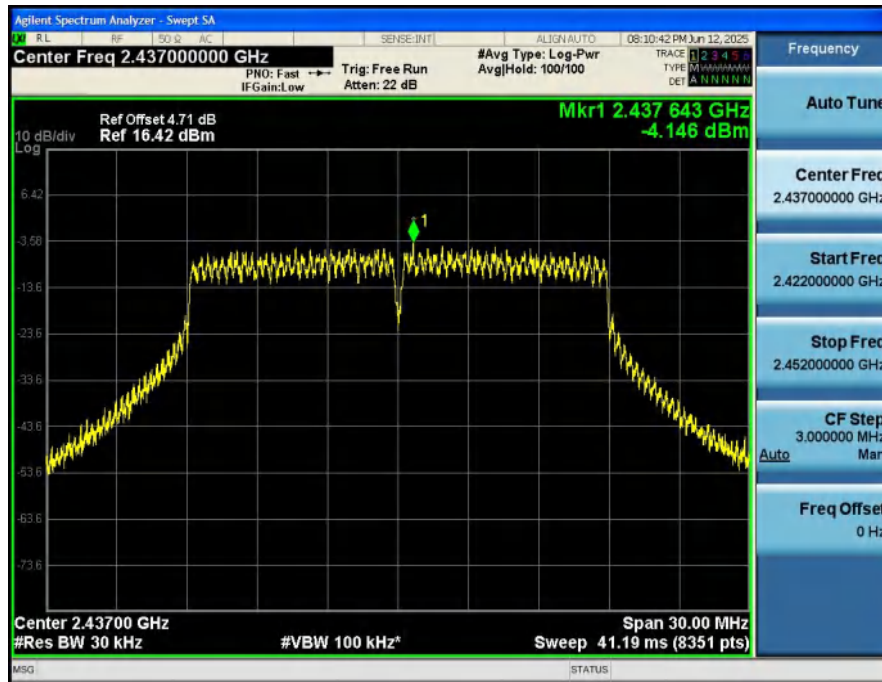


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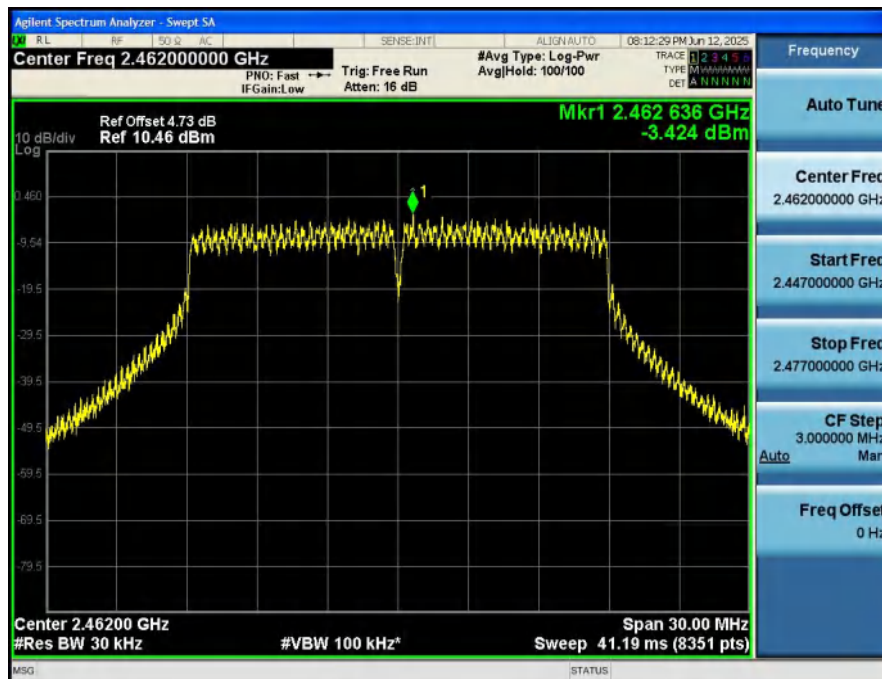
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Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2462



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Appendix F: 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	2399.488	5.594	-43.101	-24.406	Pass
NVNT	ANT1	802.11b	2462.00	2489.056	5.966	-51.069	-24.034	Pass
NVNT	ANT1	802.11g	2412.00	2399.824	-2.341	-33.816	-32.341	Pass
NVNT	ANT1	802.11g	2462.00	2483.536	-1.780	-52.971	-31.780	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.824	0.349	-32.361	-29.651	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2485.408	-0.913	-49.869	-30.913	Pass

Remark:1. Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the 'offset' of the Spectrum Analyzer during the test.

1_Reference_Level_NVNT_ANT1_802_11b_2412



2_Bandedge_NVNT_ANT1_802_11b_2412



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1_Reference_Level_NVNT_ANT1_802_11b_2462



2_Bandedge_NVNT_ANT1_802_11b_2462



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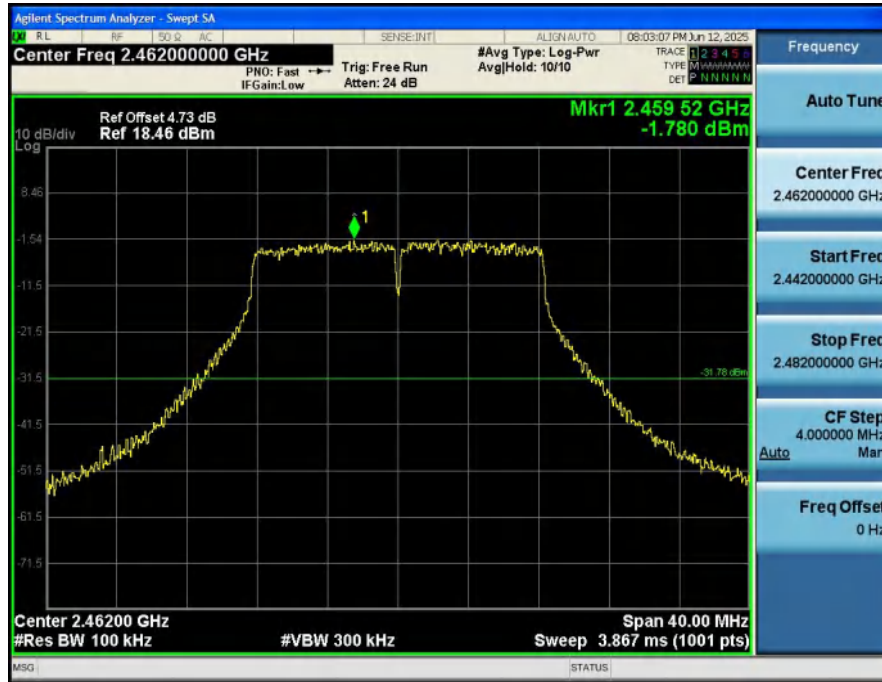
1_Reference_Level_NVNT_ANT1_802_11g_2412



2_Bandedge_NVNT_ANT1_802_11g_2412



1_Reference_Level_NVNT_ANT1_802_11g_2462



2_Bandedge_NVNT_ANT1_802_11g_2462



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1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



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1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462

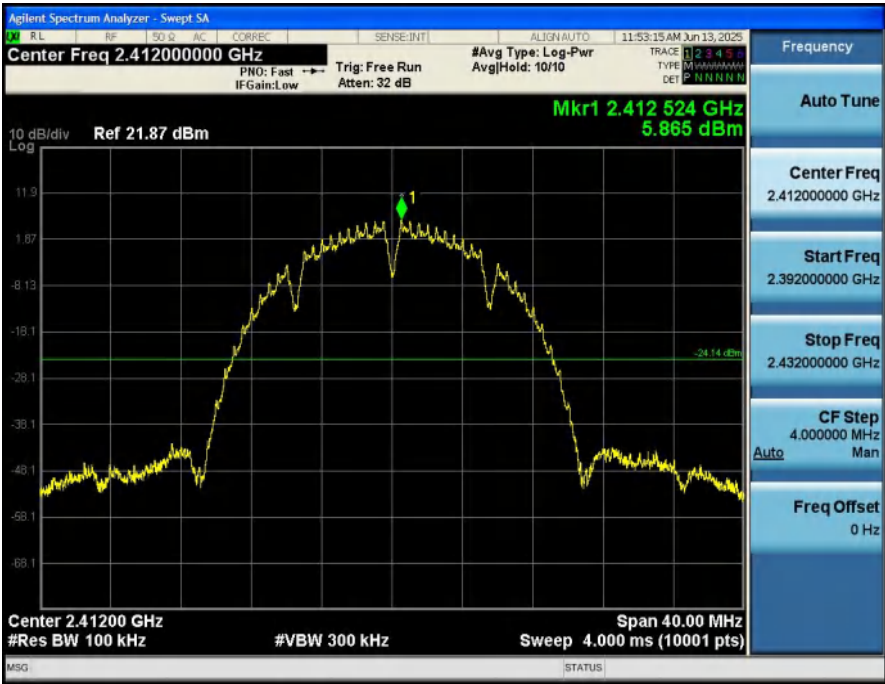


Appendix G: Spurious Emission

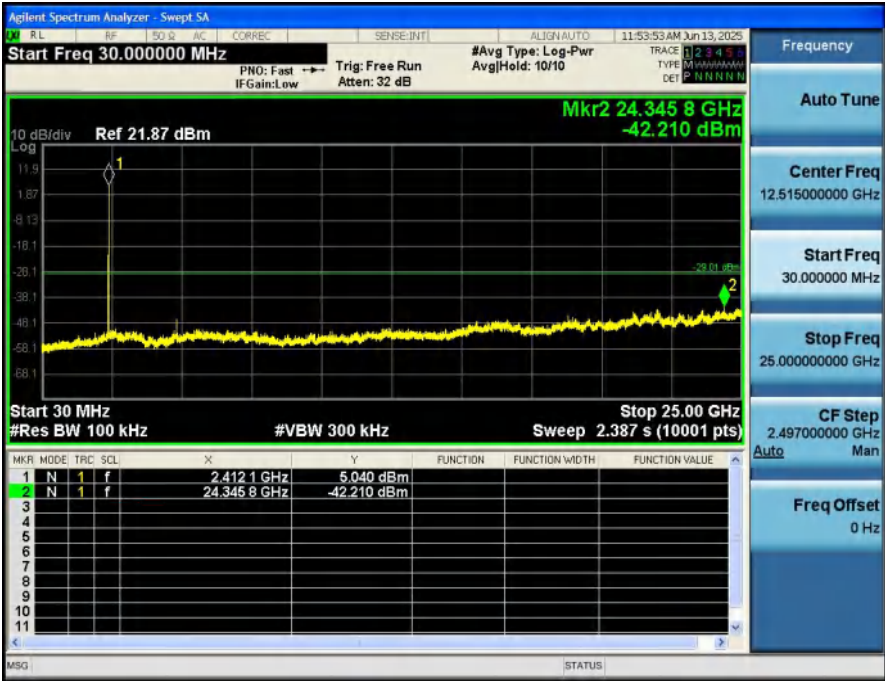
Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24345.786	5.865	-42.210	-24.135	Pass
NVNT	ANT1	802.11b	2437.00	24812.725	5.792	-38.581	-24.208	Pass
NVNT	ANT1	802.11b	2462.00	24872.653	6.011	-38.850	-23.989	Pass
NVNT	ANT1	802.11g	2412.00	24293.349	-0.485	-44.886	-30.485	Pass
NVNT	ANT1	802.11g	2437.00	24837.695	4.928	-46.913	-25.072	Pass
NVNT	ANT1	802.11g	2462.00	24792.749	0.294	-44.206	-29.706	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24750.300	1.681	-47.494	-28.319	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24827.707	6.539	-47.018	-23.461	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24847.683	2.159	-47.261	-27.841	Pass

Note: Regarding the spurious emissions from 30MHz to 26.5GHz, the cable loss have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

1_Reference_Level_NVNT_ANT1_802_11b_2412



2_Spurious_Emission_NVNT_ANT1_802_11b_2412



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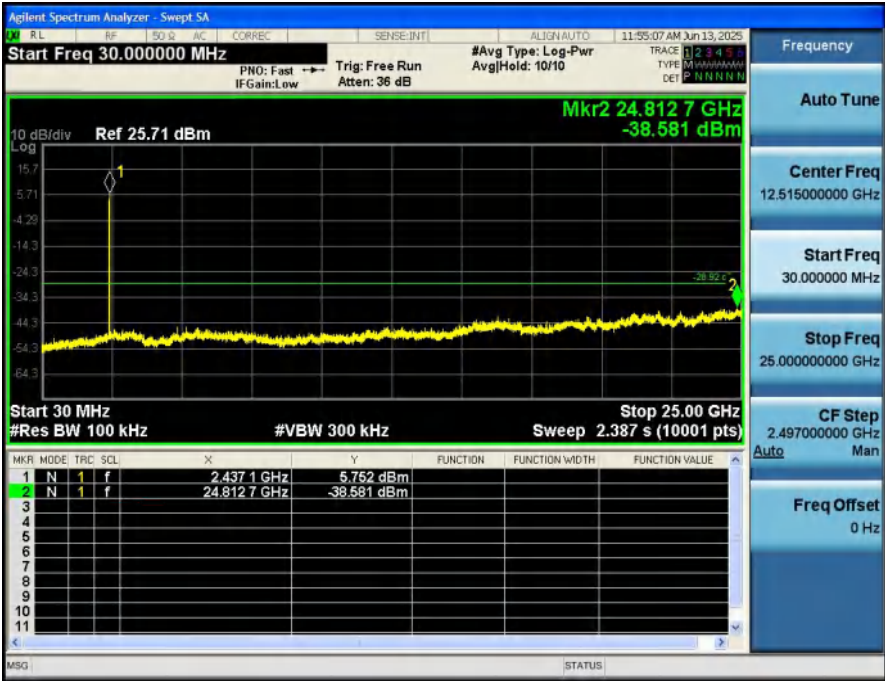
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1_Reference_Level_NVNT_ANT1_802_11b_2437



2_Spurious_Emission_NVNT_ANT1_802_11b_2437



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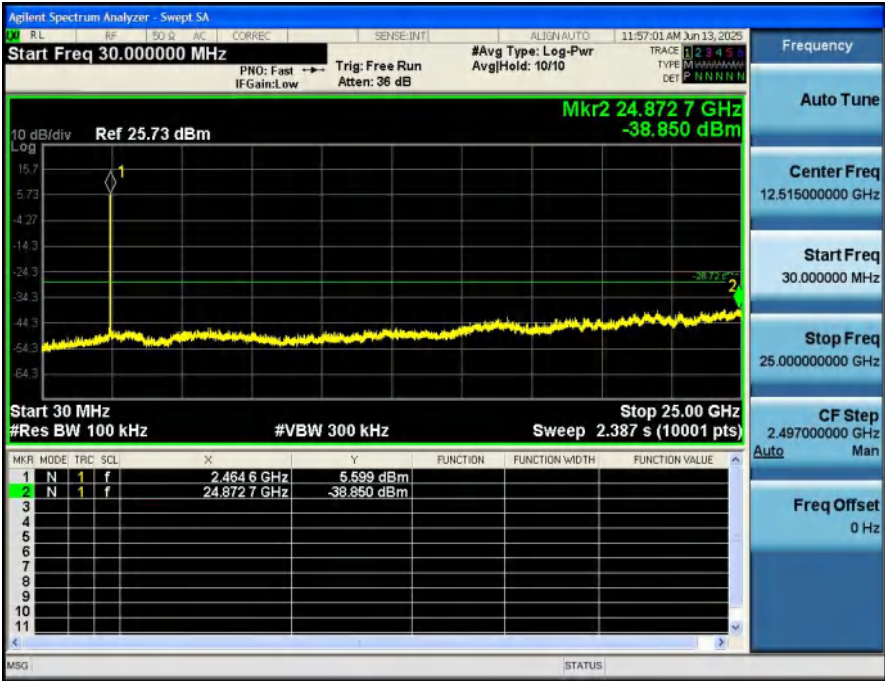
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1_Reference_Level_NVNT_ANT1_802_11b_2462



2_Spurious_Emission_NVNT_ANT1_802_11b_2462



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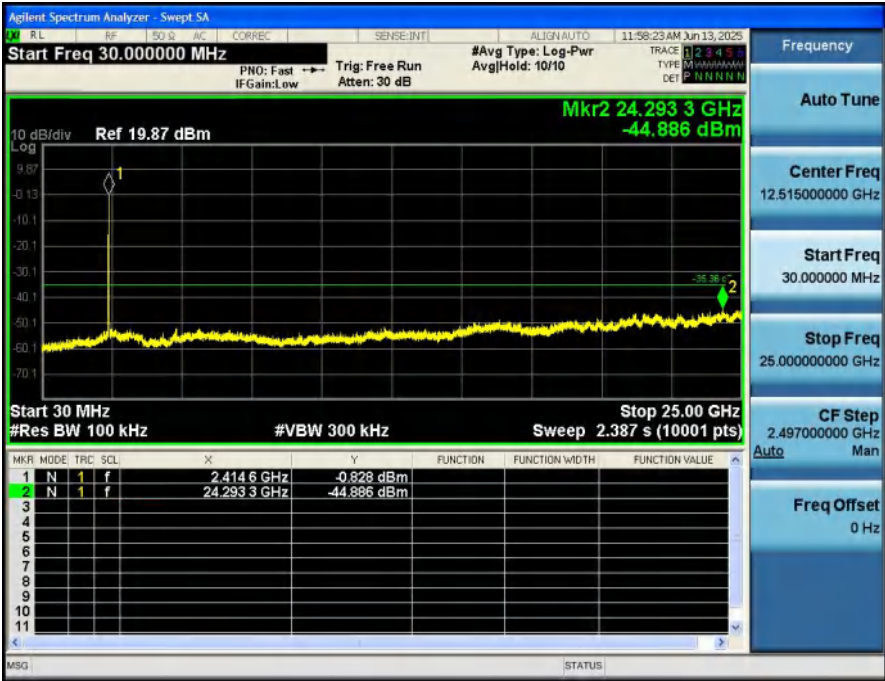
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1_Reference_Level_NVNT_ANT1_802_11g_2412



2_Spurious_Emission_NVNT_ANT1_802_11g_2412



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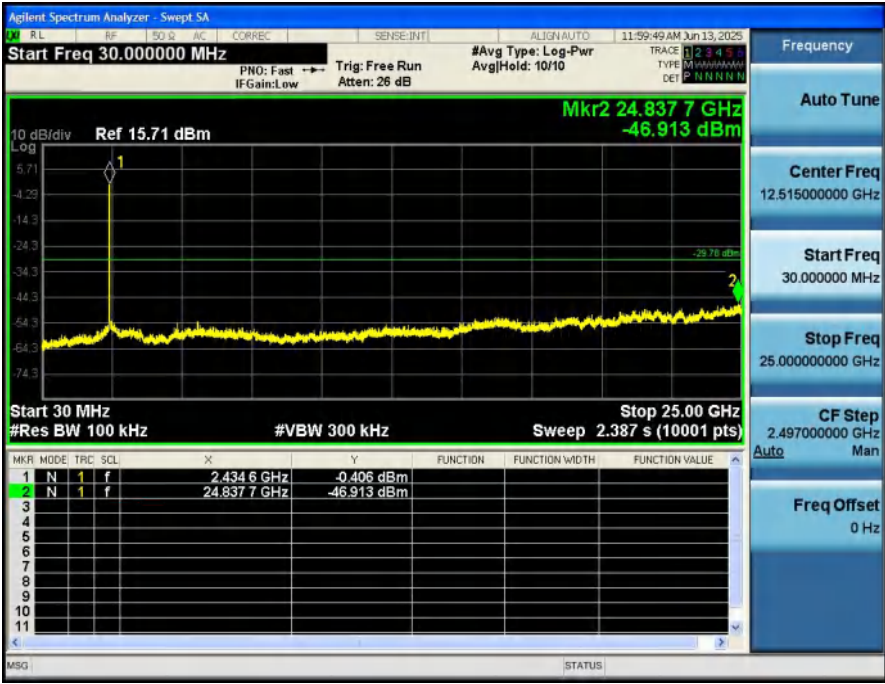
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1_Reference_Level_NVNT_ANT1_802_11g_2437



2_Spurious_Emission_NVNT_ANT1_802_11g_2437



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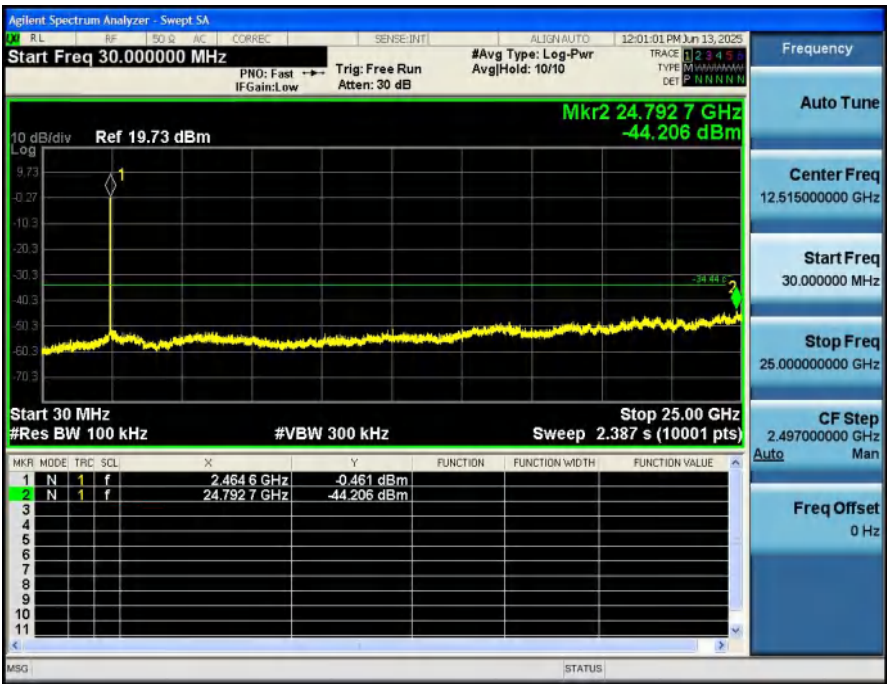
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1_Reference_Level_NVNT_ANT1_802_11g_2462



2_Spurious_Emission_NVNT_ANT1_802_11g_2462

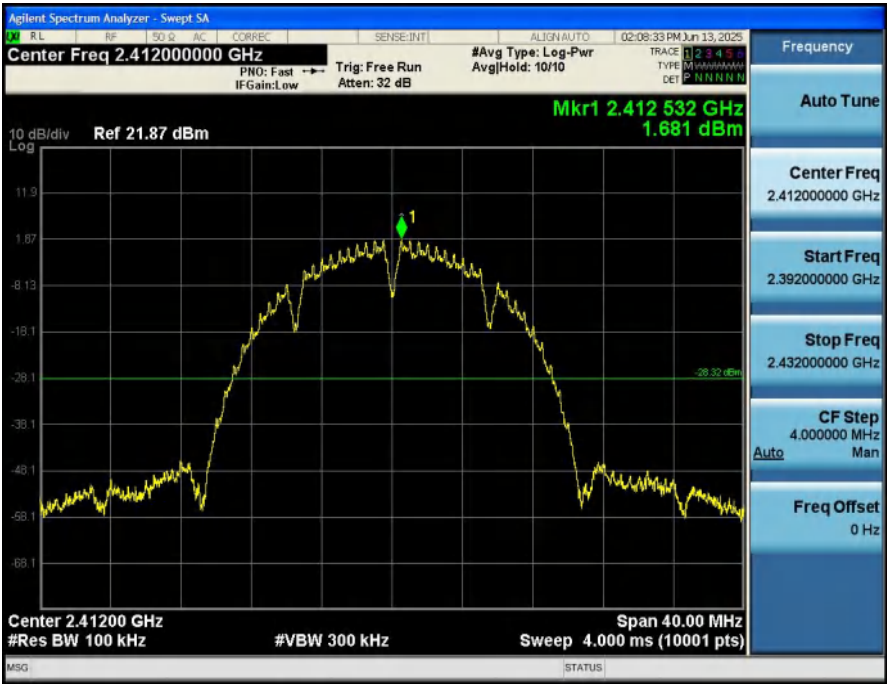


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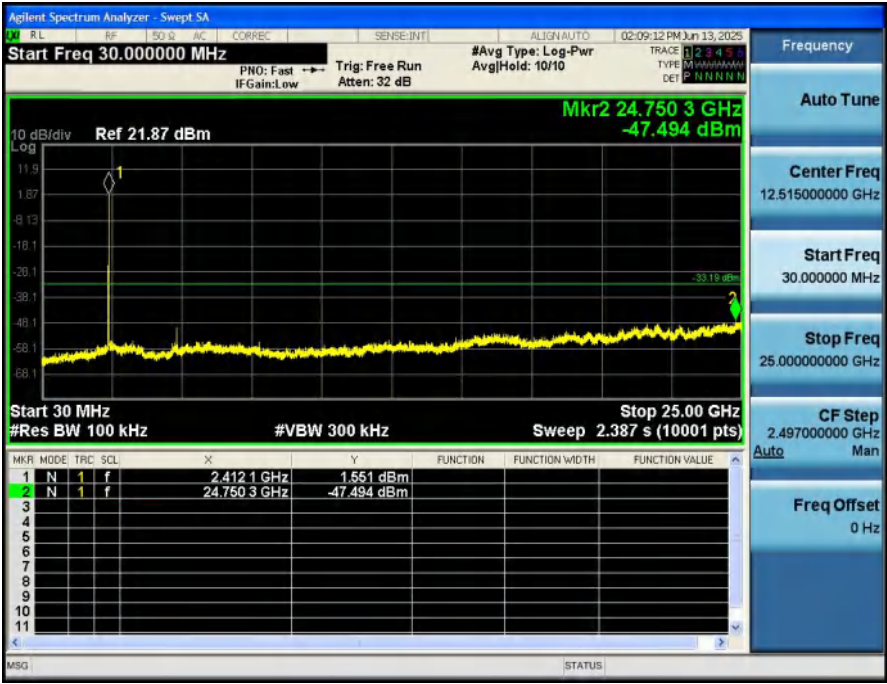
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1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



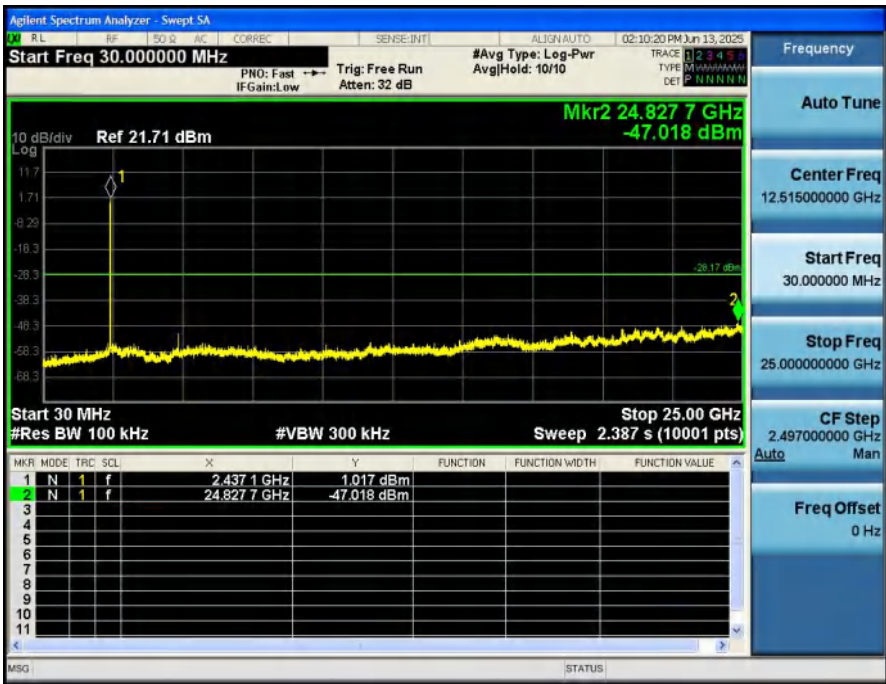
2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2412



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2437



2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2437

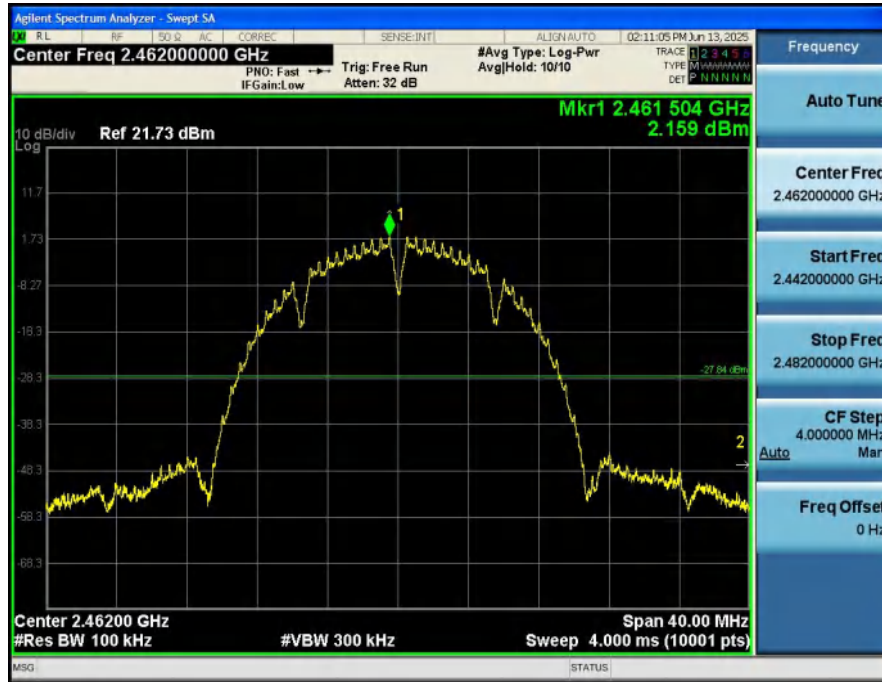


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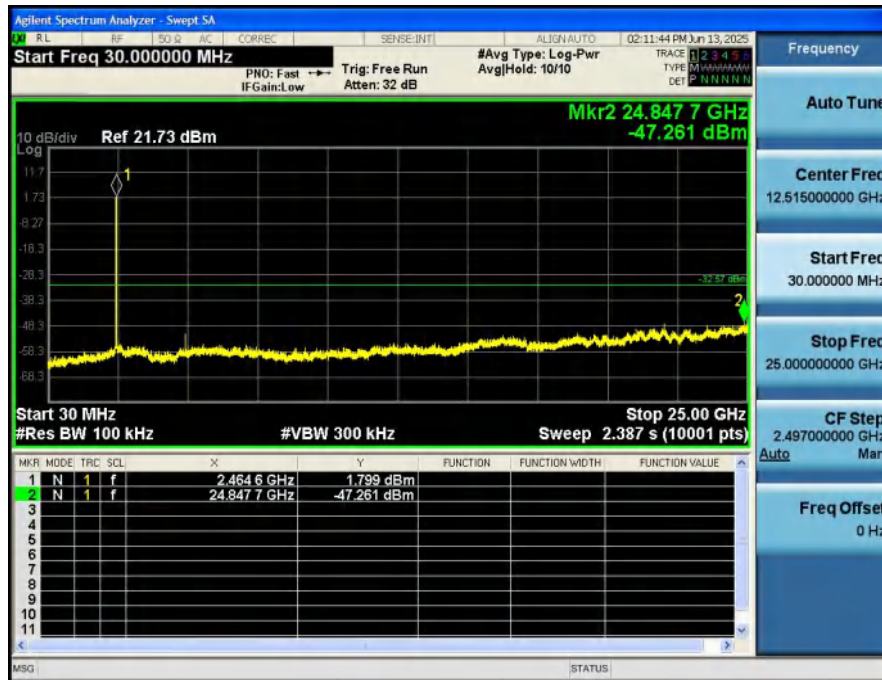
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1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2462



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