

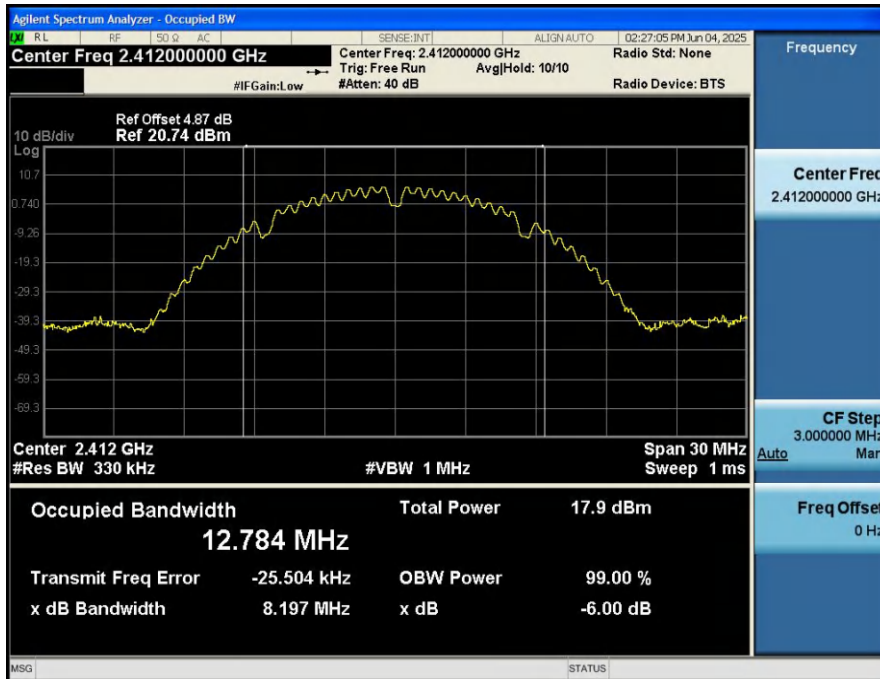
Appendix Test Data

Report No.:	1812C50261212502	Test Sample No.:	1-2-2
Start Test Date:	2025-05-29	Finish Test Date:	2025-06-04
Test Engineer:	<i>Liangfei Yang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	24.2°C	Relative Humidity:	61%
Pressure:	101kPa		

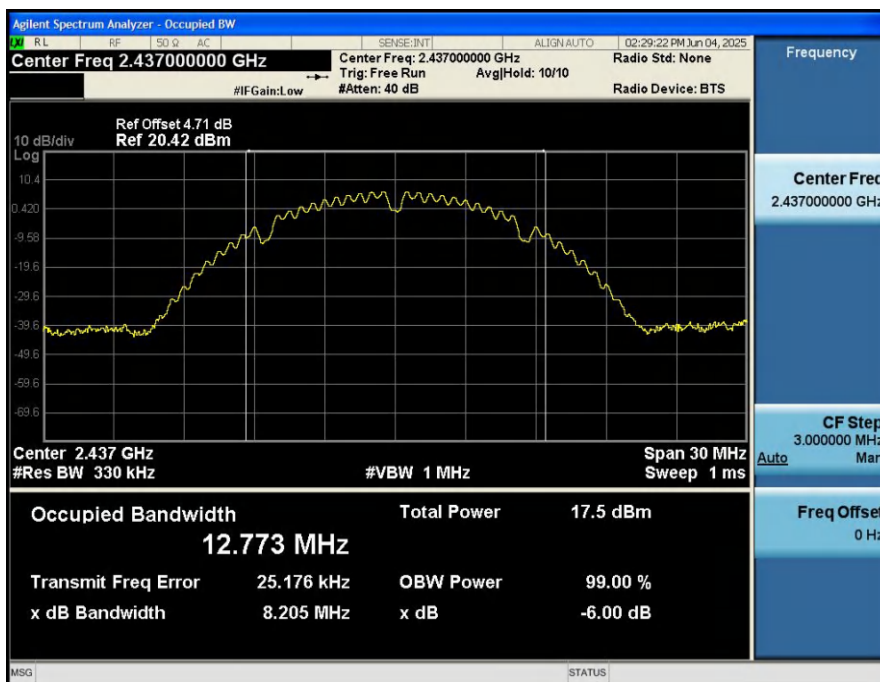
Appendix A: -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	8.20	500	Pass
NVNT	ANT1	802.11b	2437.00	8.20	500	Pass
NVNT	ANT1	802.11b	2462.00	8.20	500	Pass
NVNT	ANT1	802.11g	2412.00	16.19	500	Pass
NVNT	ANT1	802.11g	2437.00	16.03	500	Pass
NVNT	ANT1	802.11g	2462.00	16.17	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.25	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.34	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.31	500	Pass

-6dB_Bandwidth_NVNT_ANT1_802_11b_2412



-6dB_Bandwidth_NVNT_ANT1_802_11b_2437

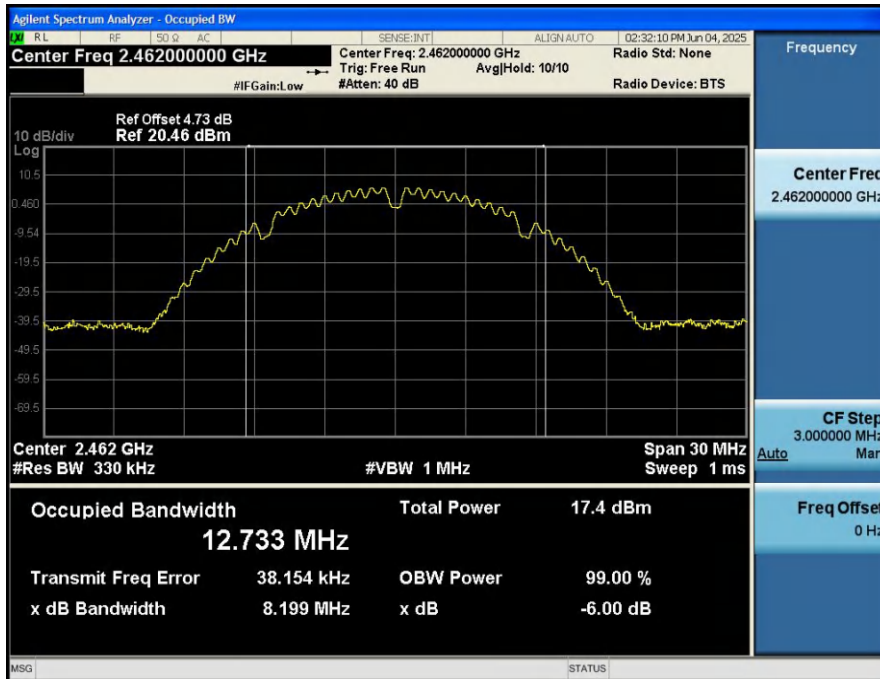


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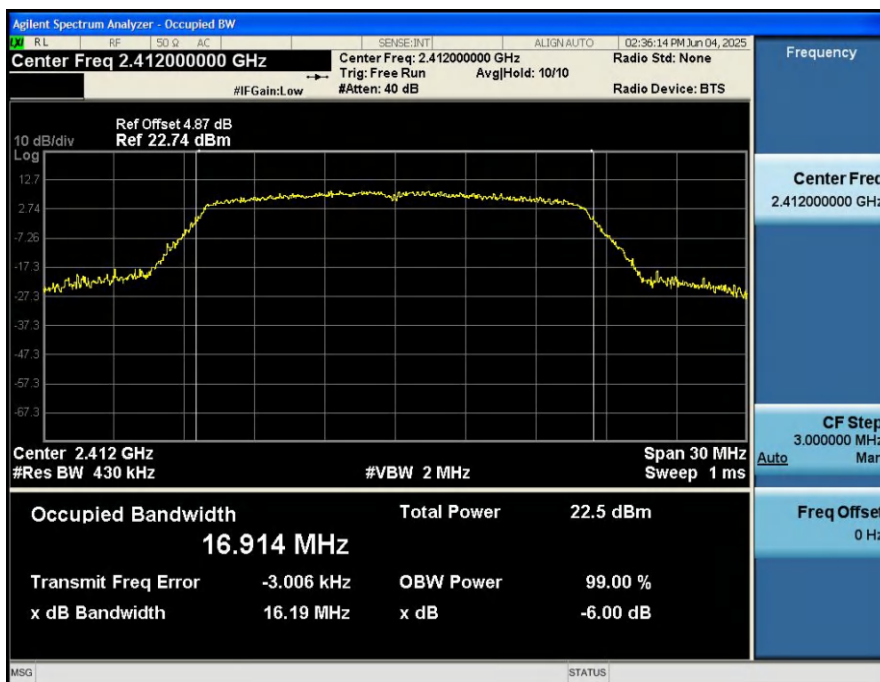
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-6dB_Bandwidth_NVNT_ANT1_802_11b_2462



-6dB_Bandwidth_NVNT_ANT1_802_11g_2412

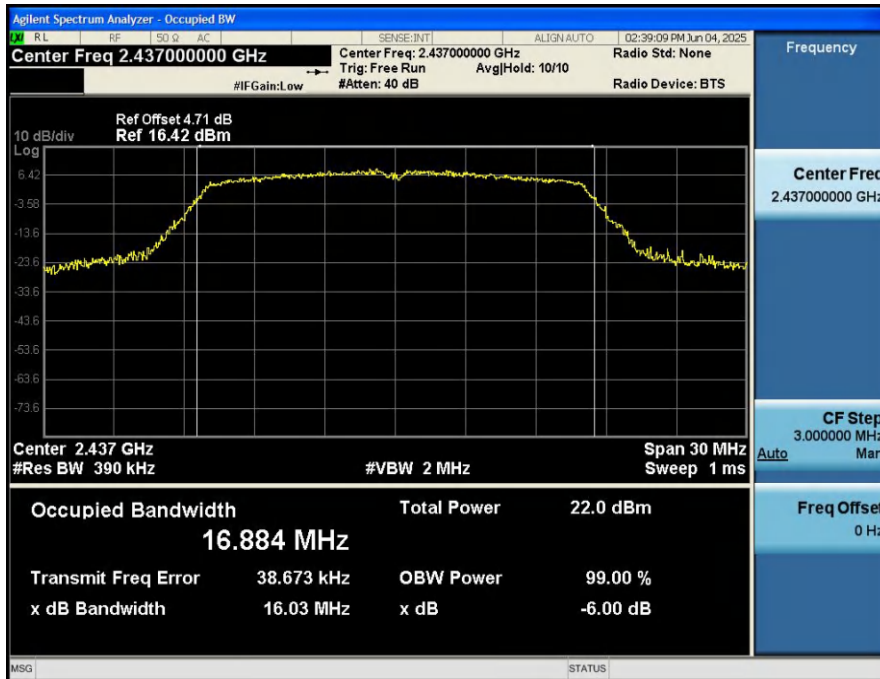


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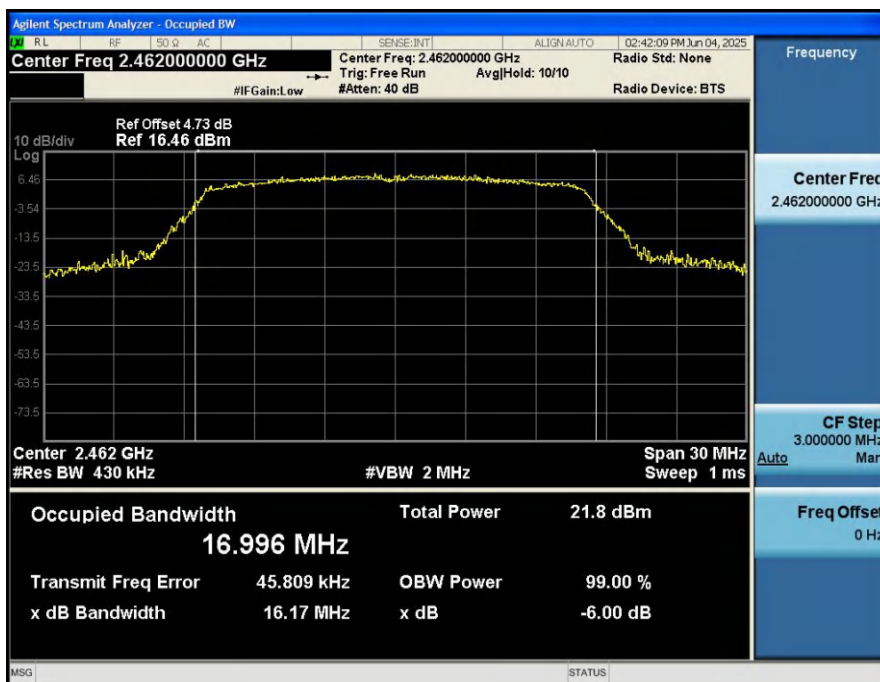
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-6dB_Bandwidth_NVNT_ANT1_802_11g_2437



-6dB_Bandwidth_NVNT_ANT1_802_11g_2462

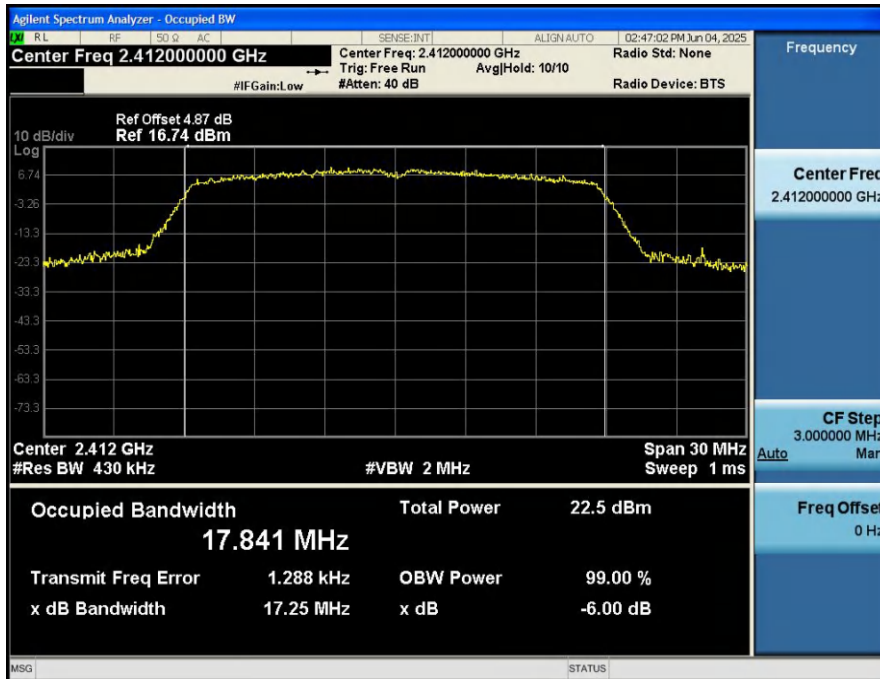


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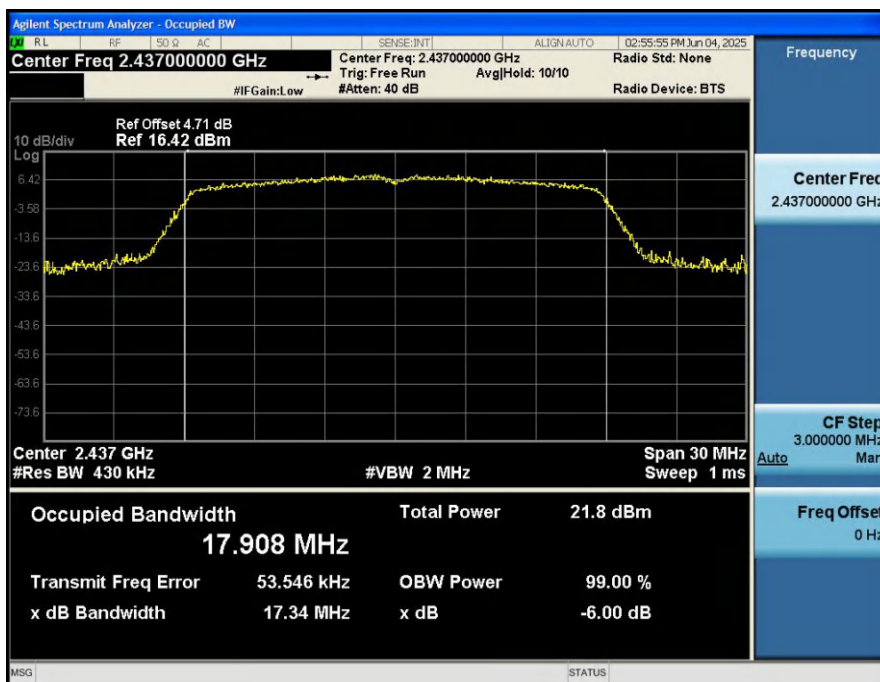
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-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



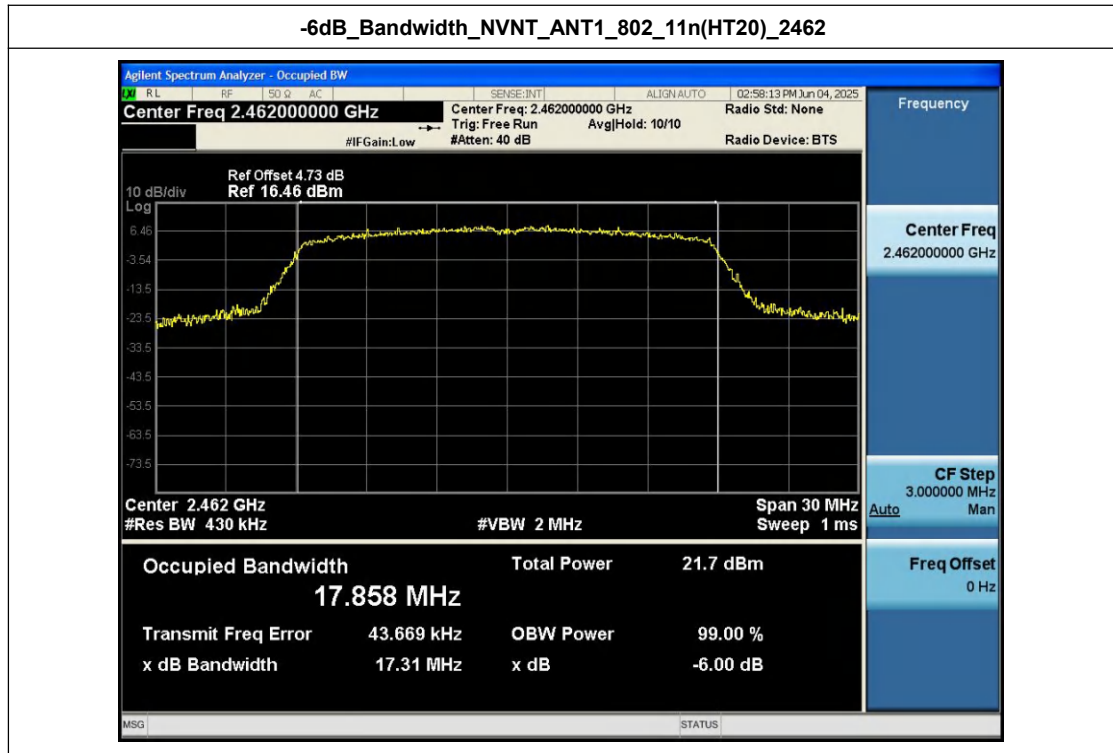
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



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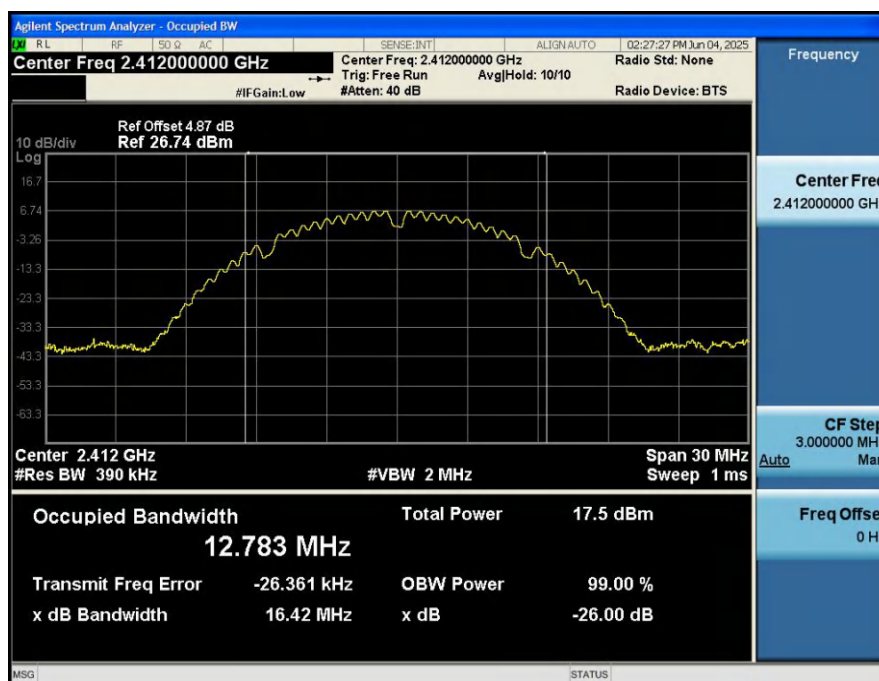
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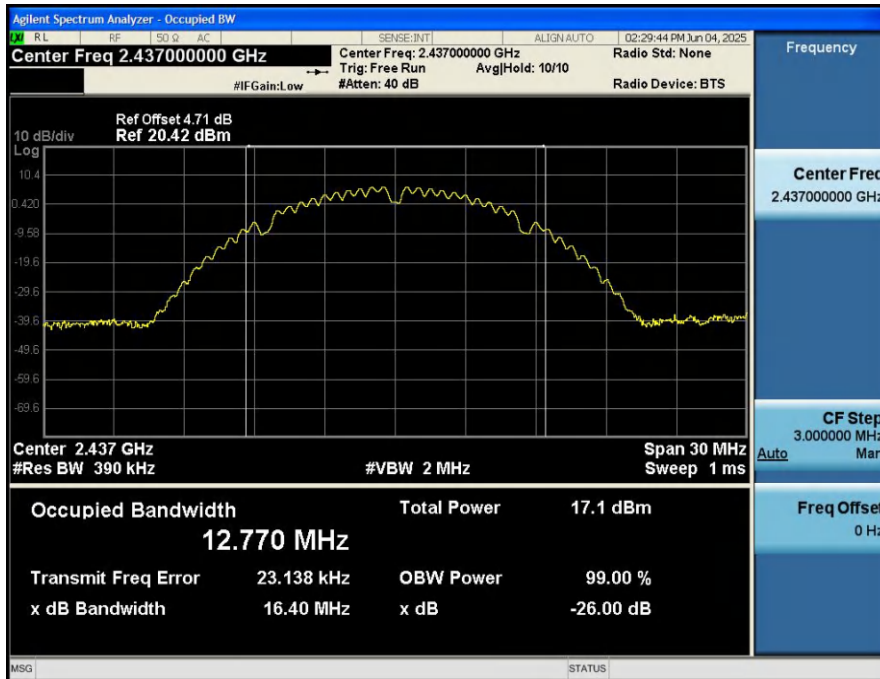
Appendix B: 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%BW(MHz)
NVNT	ANT1	802.11b	2412.00	12.783
NVNT	ANT1	802.11b	2437.00	12.770
NVNT	ANT1	802.11b	2462.00	12.734
NVNT	ANT1	802.11g	2412.00	17.115
NVNT	ANT1	802.11g	2437.00	17.106
NVNT	ANT1	802.11g	2462.00	17.133
NVNT	ANT1	802.11n(HT20)	2412.00	17.980
NVNT	ANT1	802.11n(HT20)	2437.00	18.018
NVNT	ANT1	802.11n(HT20)	2462.00	18.026

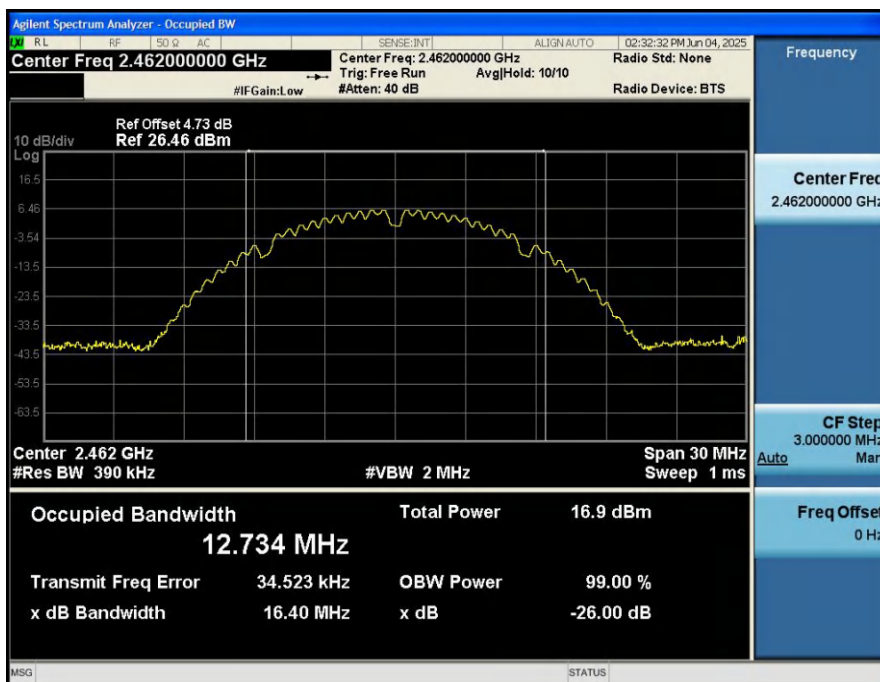
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2412



99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2437



99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2462

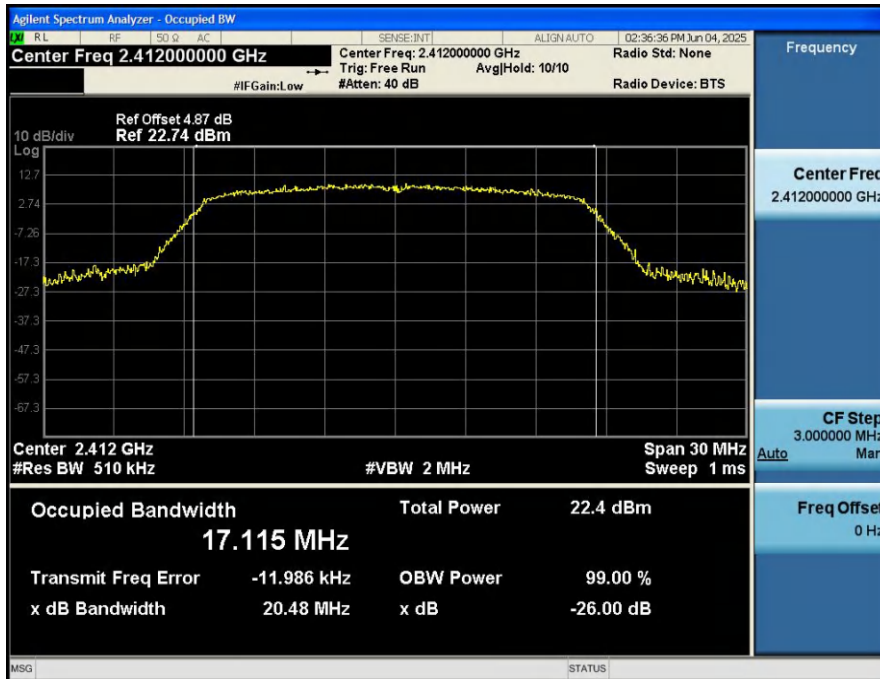


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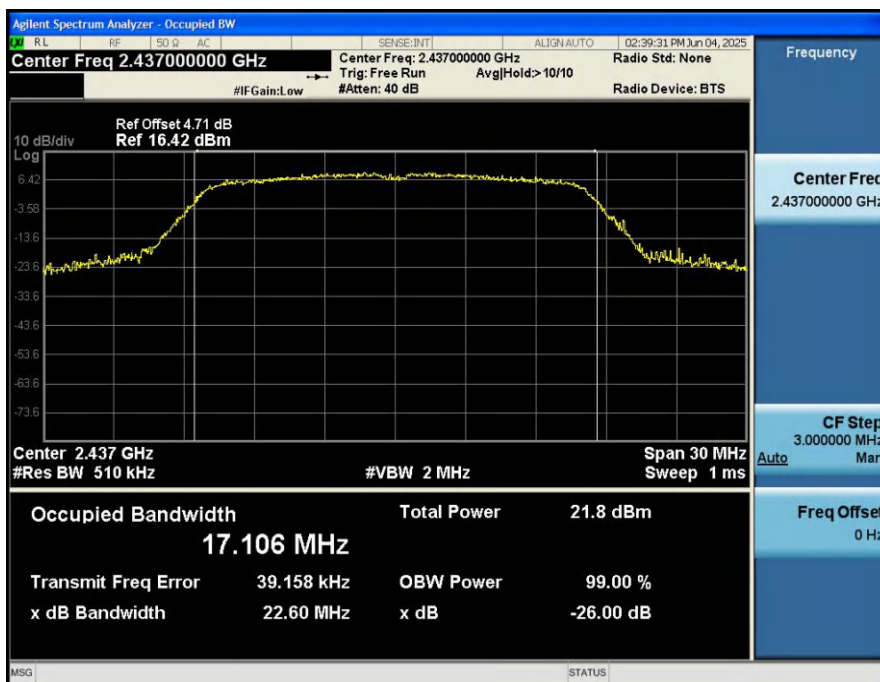
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99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2412



99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2437

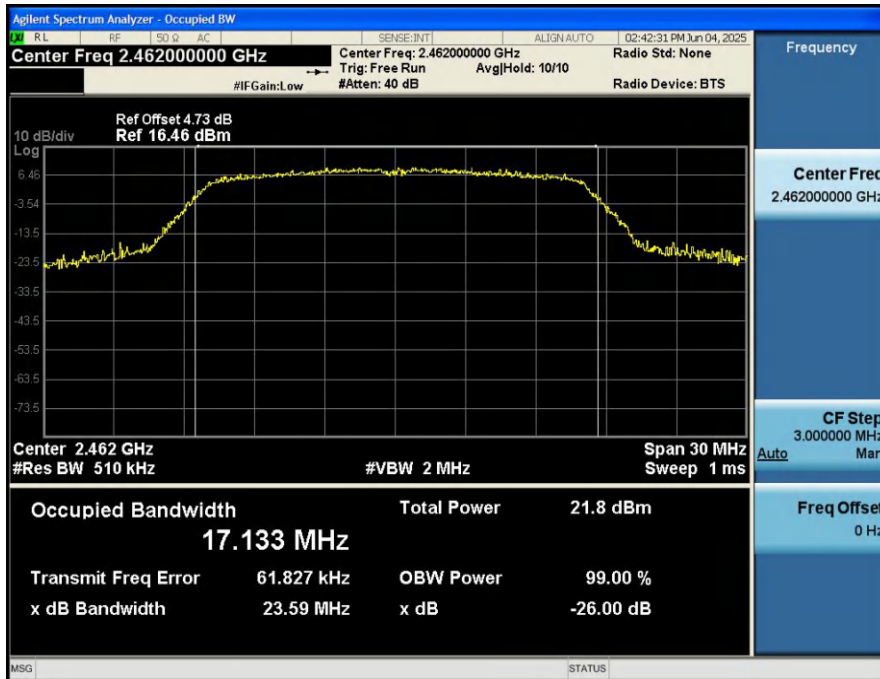


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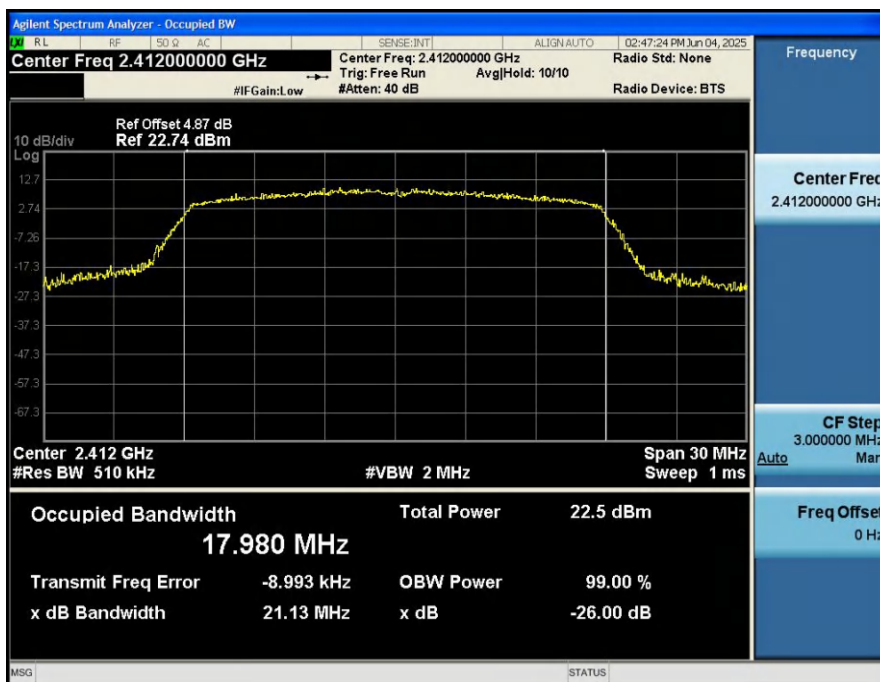
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99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2462



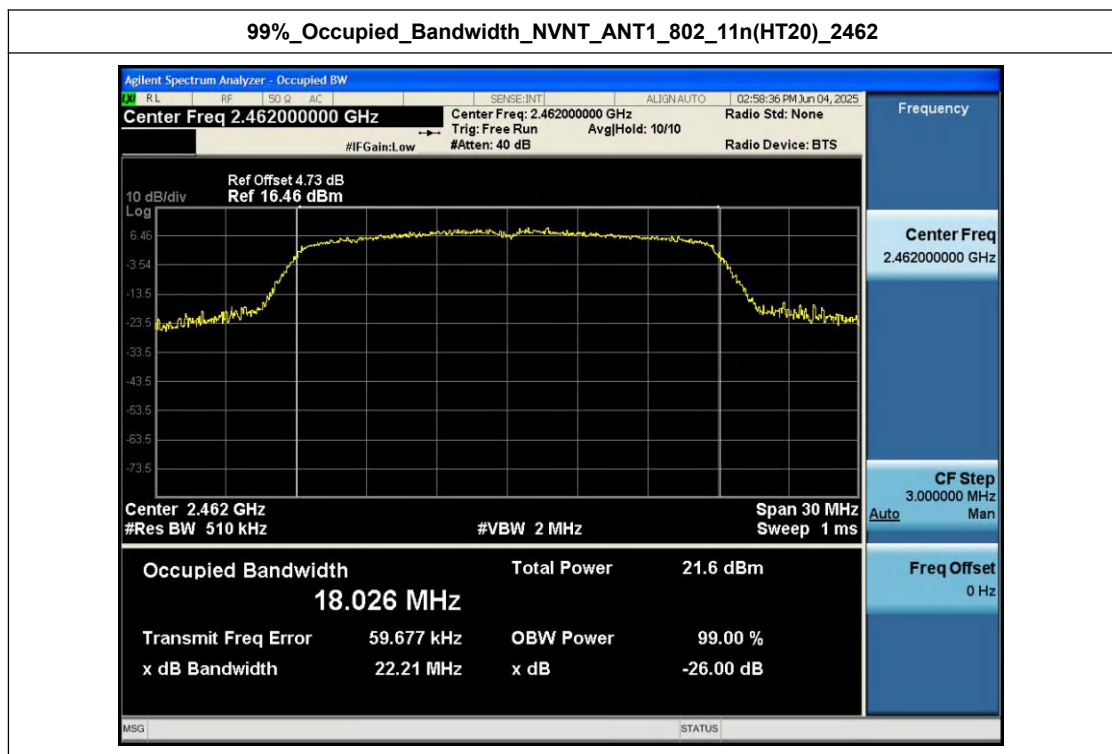
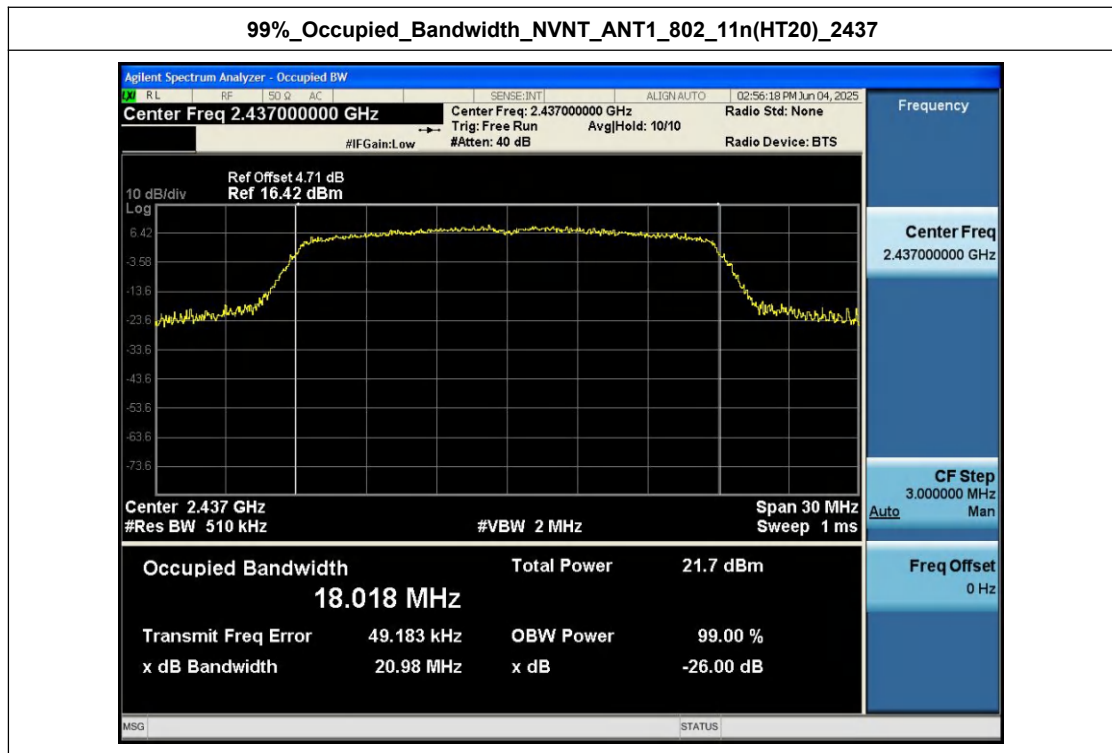
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



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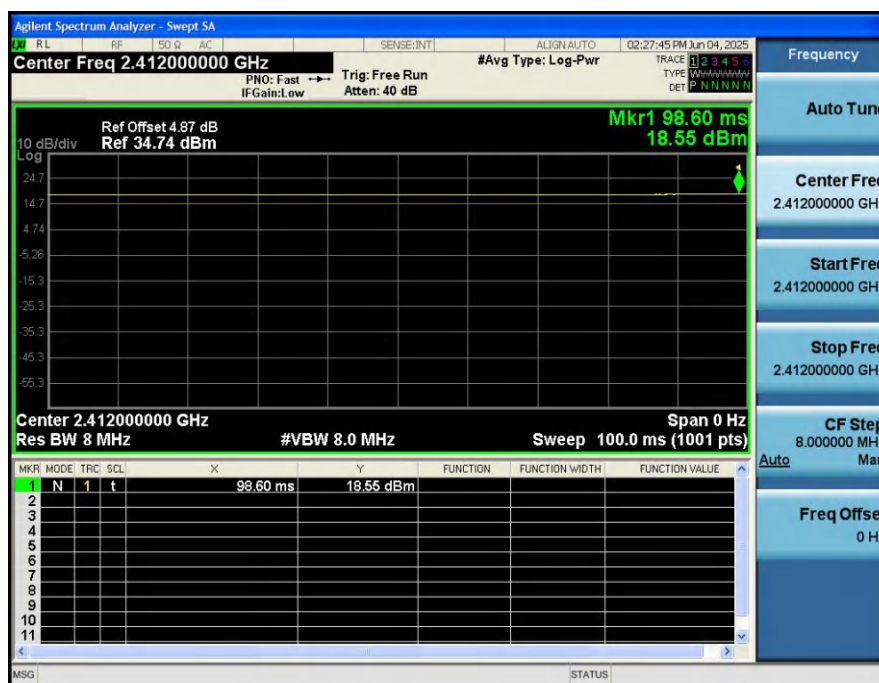
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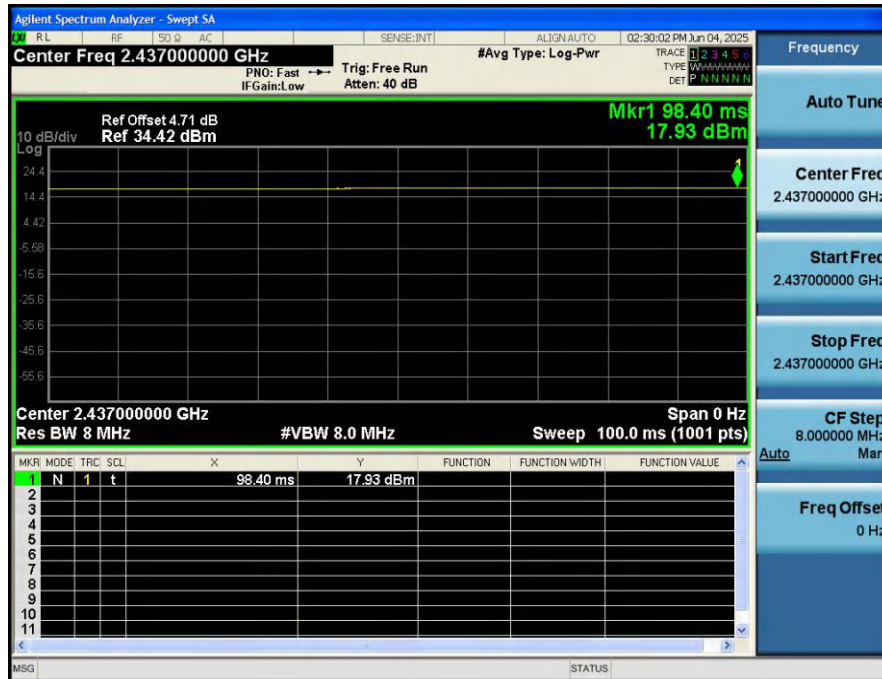
Appendix C: Duty Cycle

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

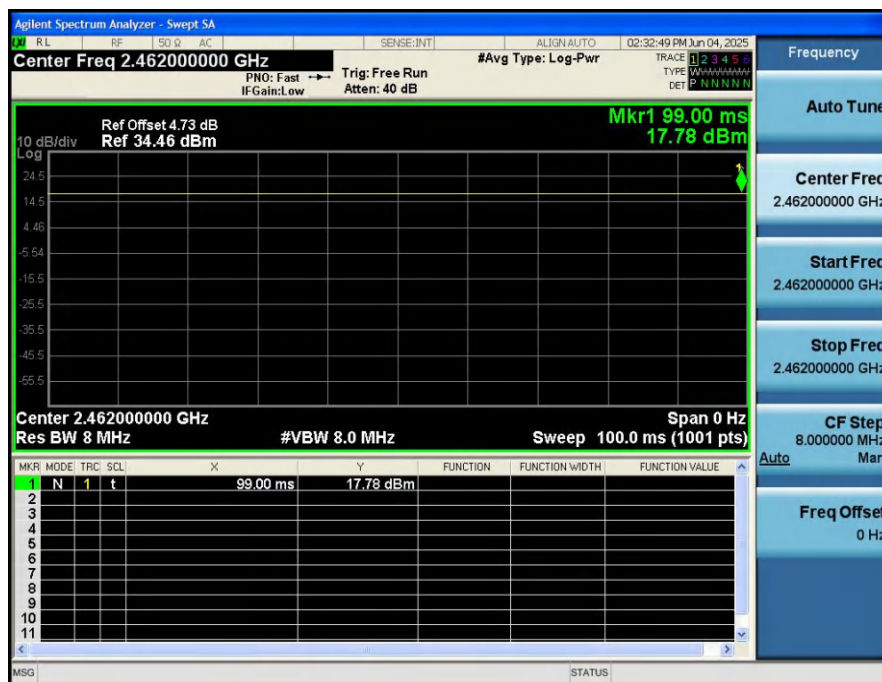
Duty_Cycle_NVNT_ANT1_802_11b_2412



Duty_Cycle_NVNT_ANT1_802_11b_2437



Duty_Cycle_NVNT_ANT1_802_11b_2462

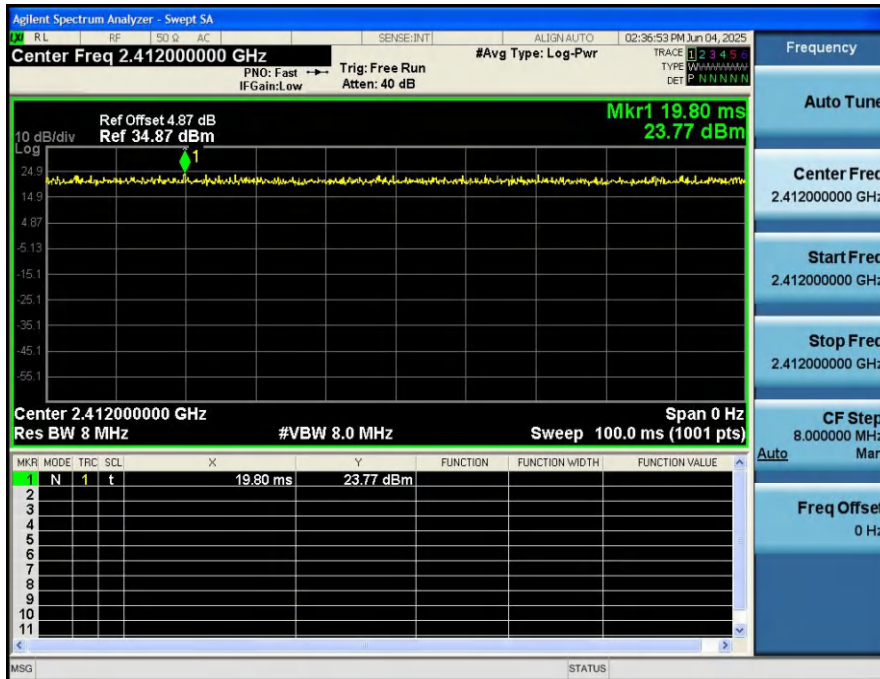


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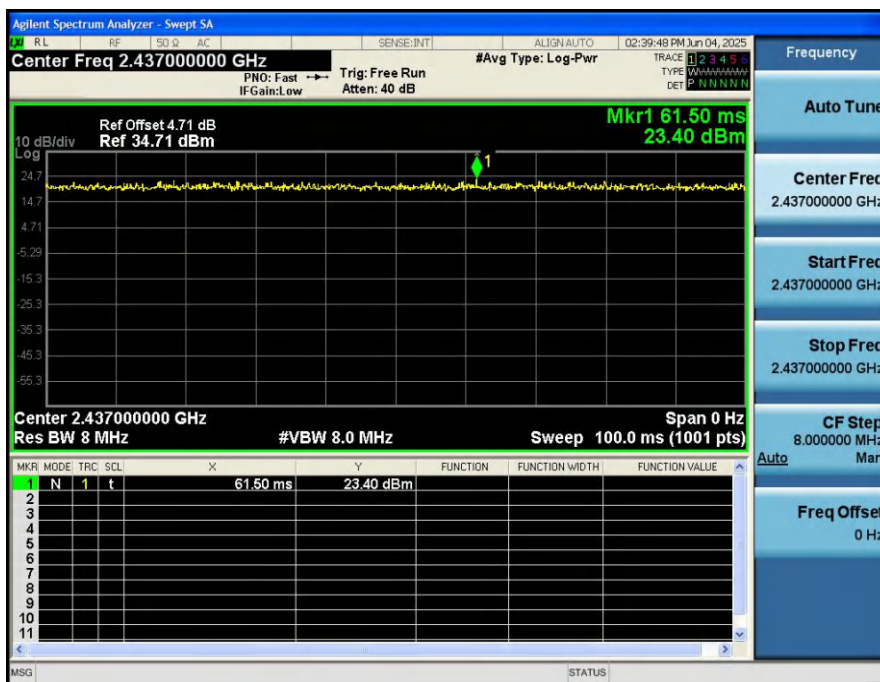
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Duty_Cycle_NVNT_ANT1_802_11g_2412



Duty_Cycle_NVNT_ANT1_802_11g_2437

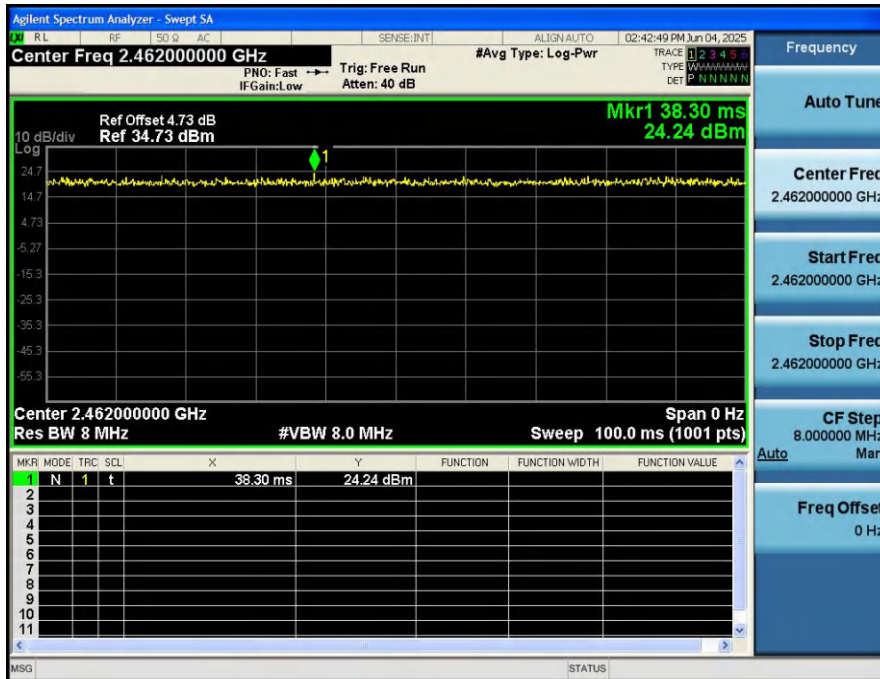


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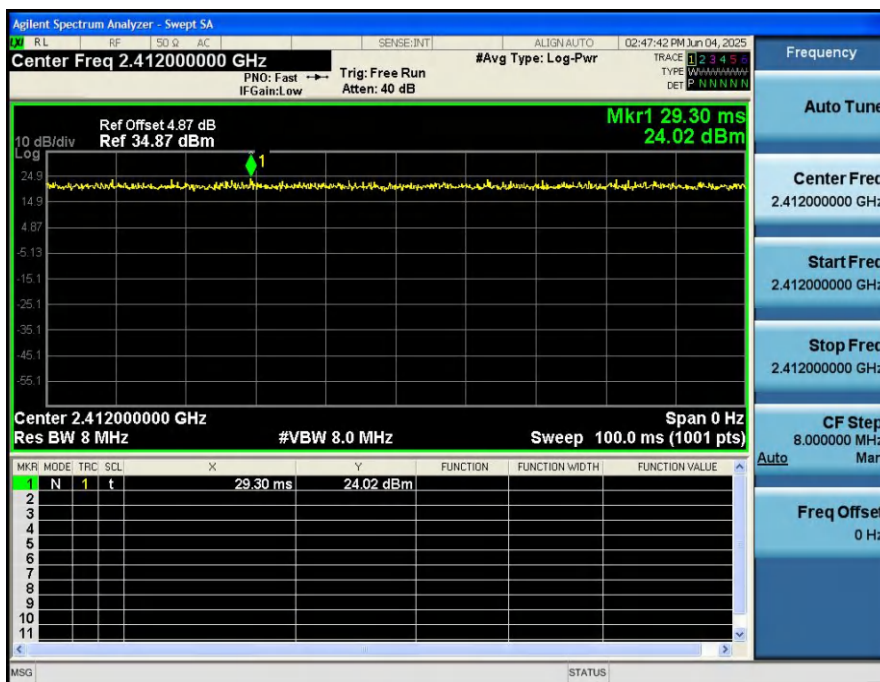
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Duty_Cycle_NVNT_ANT1_802_11g_2462



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412

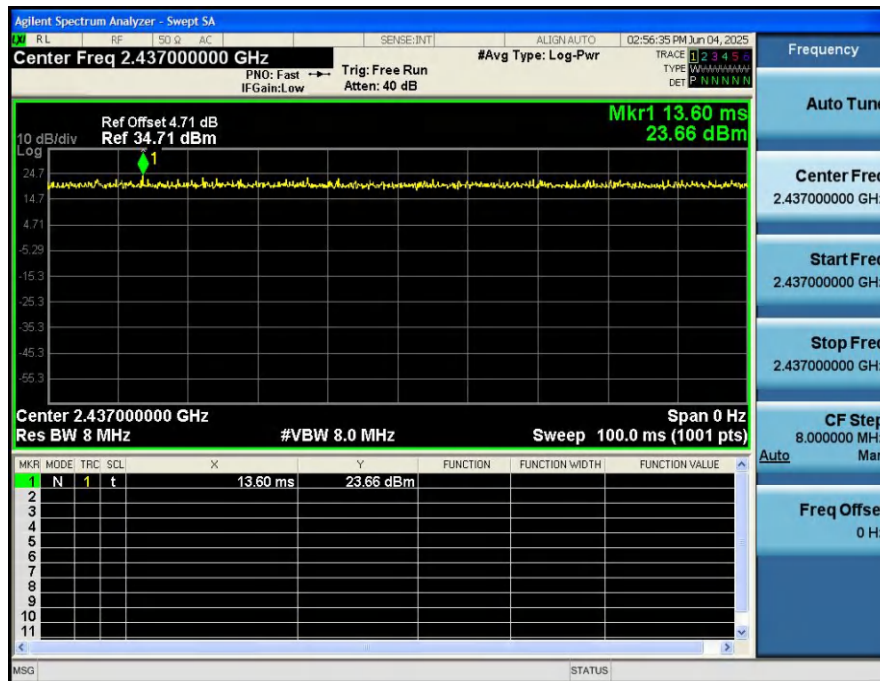


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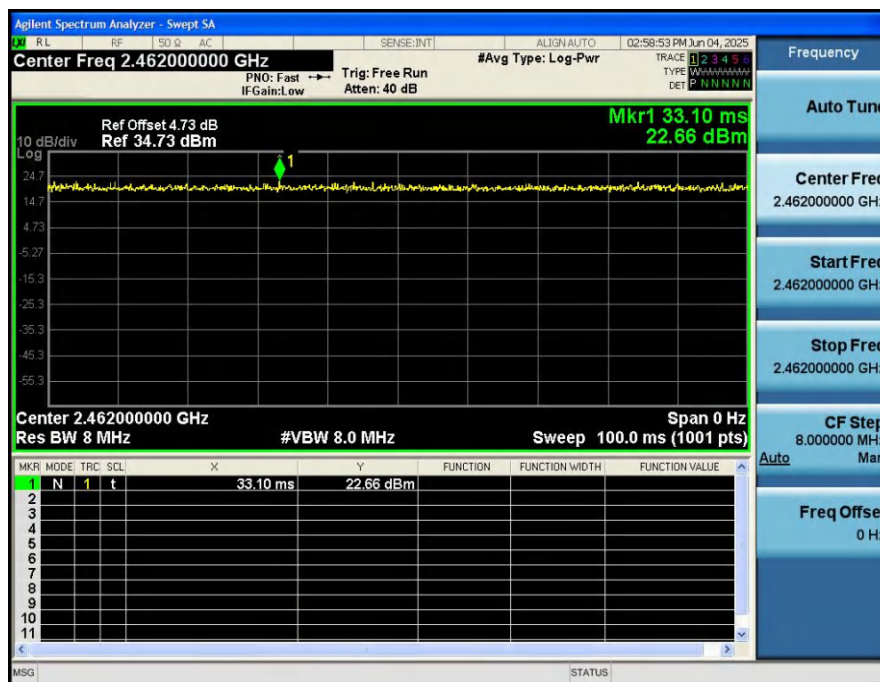
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Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462



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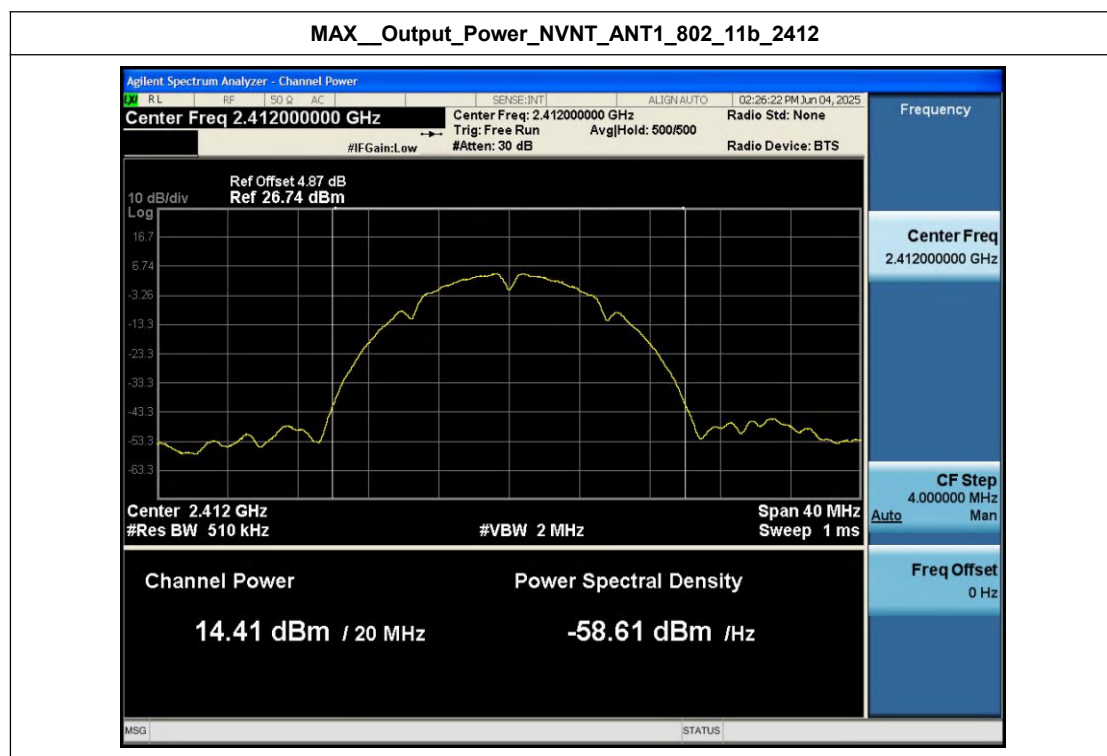
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Appendix D: MAX. Output Power

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	14.41	0.00	14.41	30	Pass
NVNT	ANT1	802.11b	2437.00	RMS	13.98	0.00	13.98	30	Pass
NVNT	ANT1	802.11b	2462.00	RMS	13.87	0.00	13.87	30	Pass
NVNT	ANT1	802.11g	2412.00	RMS	15.45	0.00	15.45	30	Pass
NVNT	ANT1	802.11g	2437.00	RMS	14.86	0.00	14.86	30	Pass
NVNT	ANT1	802.11g	2462.00	RMS	14.83	0.00	14.83	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	RMS	15.49	0.00	15.49	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	RMS	14.71	0.00	14.71	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	RMS	14.68	0.00	14.68	30	Pass

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



MAX_Output_Power_NVNT_ANT1_802_11b_2437



MAX_Output_Power_NVNT_ANT1_802_11b_2462

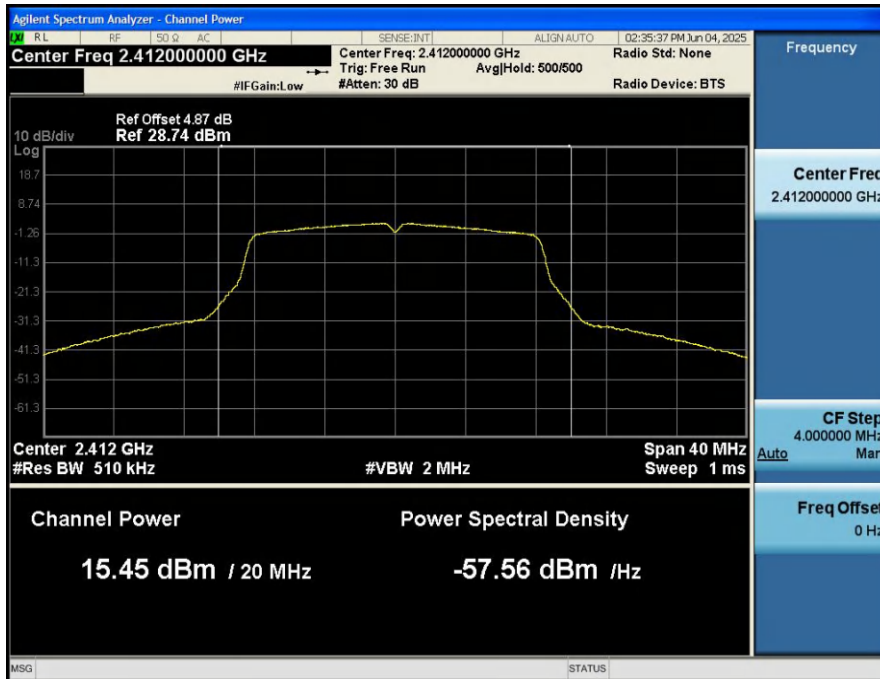


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MAX_Output_Power_NVNT_ANT1_802_11g_2412



MAX_Output_Power_NVNT_ANT1_802_11g_2437



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MAX_Output_Power_NVNT_ANT1_802_11n(HT20)_2462



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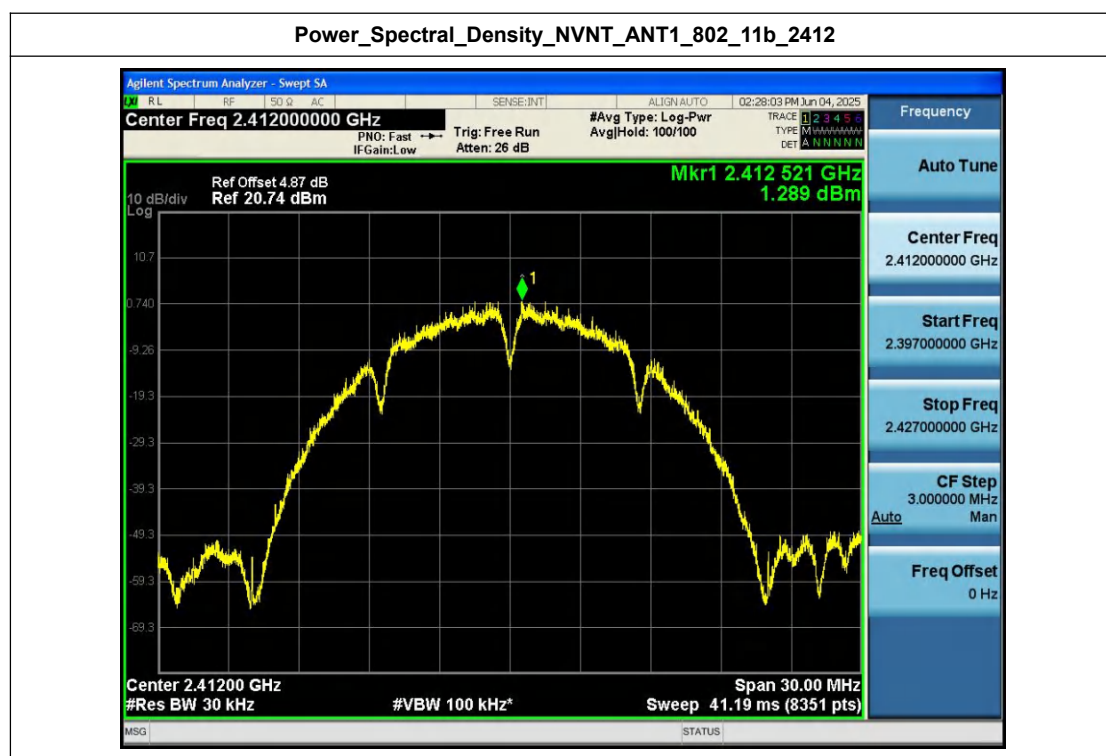
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Appendix E: Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD (dBm/30kHz)	Duty factor (dB)	RB factor (dB)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	1.29	0.00	-10.00	-8.71	8	Pass
NVNT	ANT1	802.11b	2437.00	1.04	0.00	-10.00	-8.96	8	Pass
NVNT	ANT1	802.11b	2462.00	1.23	0.00	-10.00	-8.77	8	Pass
NVNT	ANT1	802.11g	2412.00	-0.30	0.00	-10.00	-10.30	8	Pass
NVNT	ANT1	802.11g	2437.00	-1.32	0.00	-10.00	-11.32	8	Pass
NVNT	ANT1	802.11g	2462.00	-0.87	0.00	-10.00	-10.87	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-0.30	0.00	-10.00	-10.30	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-1.38	0.00	-10.00	-11.38	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-0.11	0.00	-10.00	-10.11	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

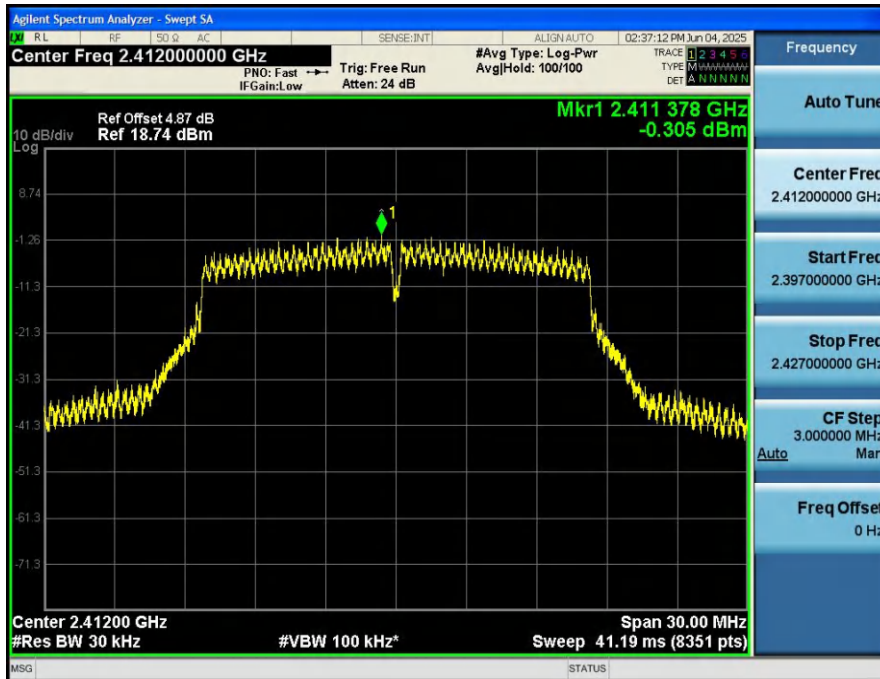


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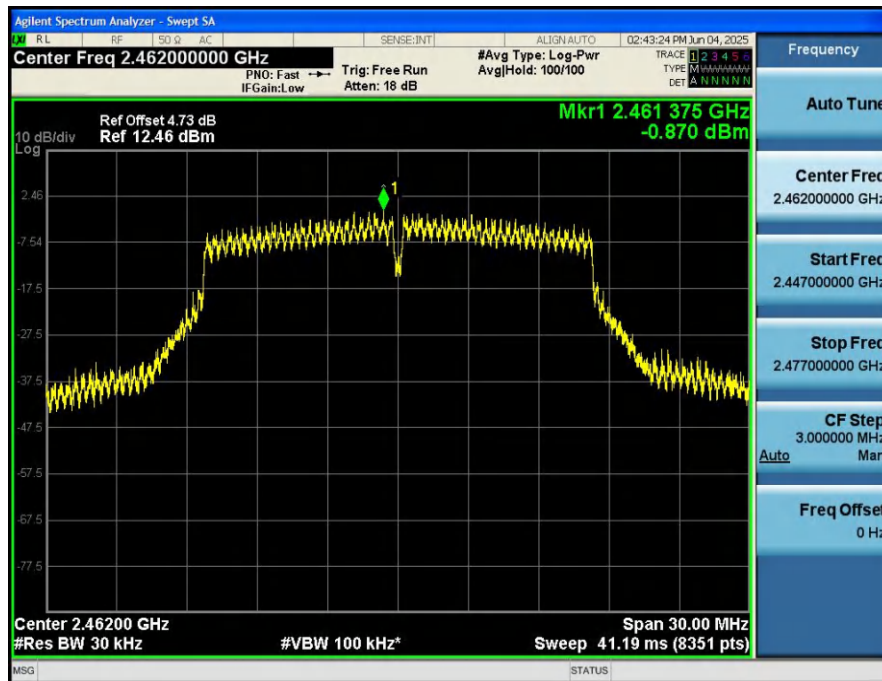
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Power_Spectral_Density_NVNT_ANT1_802_11g_2437



Power_Spectral_Density_NVNT_ANT1_802_11g_2462



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412



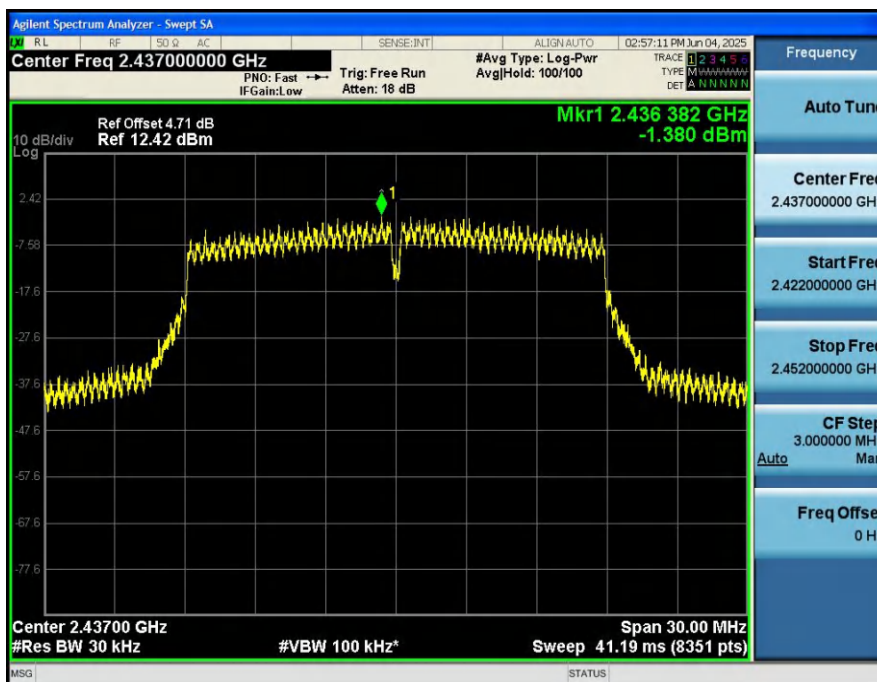
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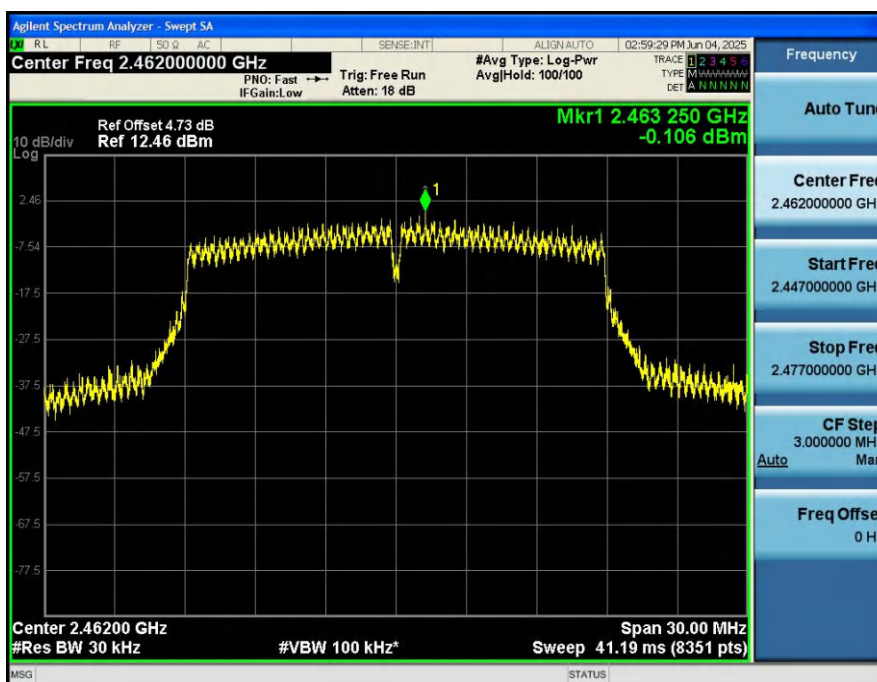


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Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437



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	5.493	-45.990	-24.507	Pass
NVNT	ANT1	802.11b	2462.00	2487.040	4.922	-51.380	-25.078	Pass
NVNT	ANT1	802.11g	2412.00	2399.936	-0.997	-37.225	-30.997	Pass
NVNT	ANT1	802.11g	2462.00	2484.256	1.302	-41.200	-28.698	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2398.928	-1.639	-36.952	-31.639	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.536	1.490	-37.810	-28.510	Pass

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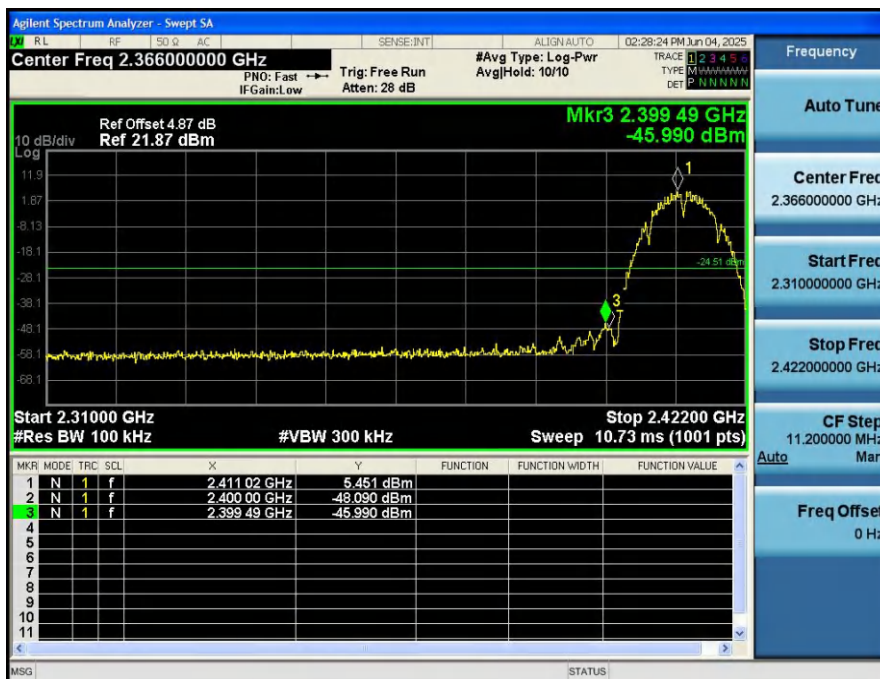
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1_Reference_Level_NVNT_ANT1_802_11b_2412



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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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



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



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



Appendix G: Spurious Emission

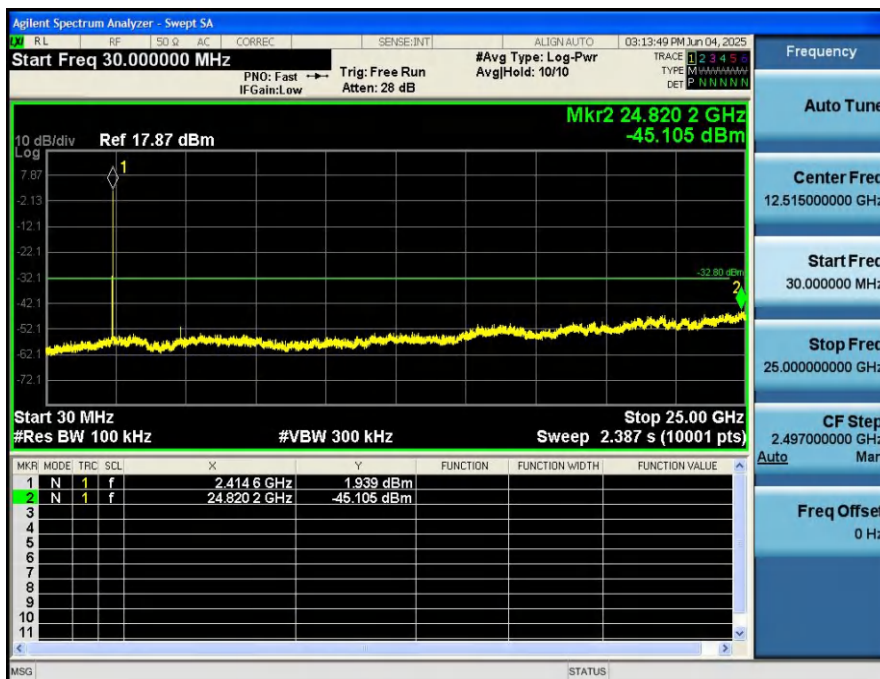
Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq (MHz)	Ref_level (dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24820.216	2.066	-45.105	-27.934	Pass
NVNT	ANT1	802.11b	2437.00	24325.810	5.969	-43.345	-24.031	Pass
NVNT	ANT1	802.11b	2462.00	24860.168	5.279	-43.312	-24.721	Pass
NVNT	ANT1	802.11g	2412.00	706.687	-2.070	-42.819	-32.070	Pass
NVNT	ANT1	802.11g	2437.00	721.669	2.047	-42.241	-27.953	Pass
NVNT	ANT1	802.11g	2462.00	24850.180	-3.285	-45.347	-33.285	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24344.896	-3.166	-49.295	-33.166	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24343.289	1.739	-45.462	-28.261	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24131.044	-3.657	-45.096	-33.657	Pass

Note: Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose and attenuator factors 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

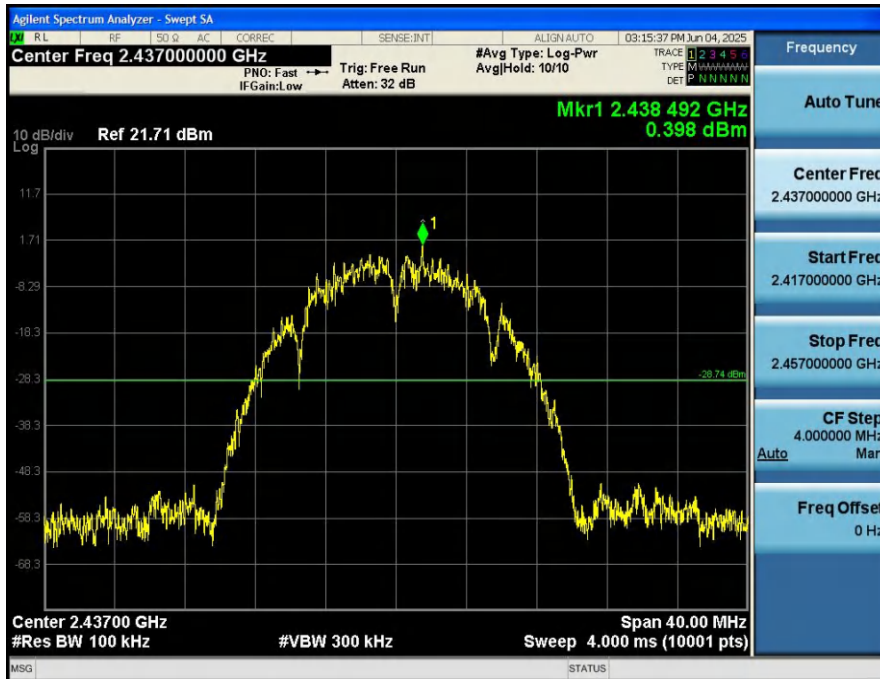


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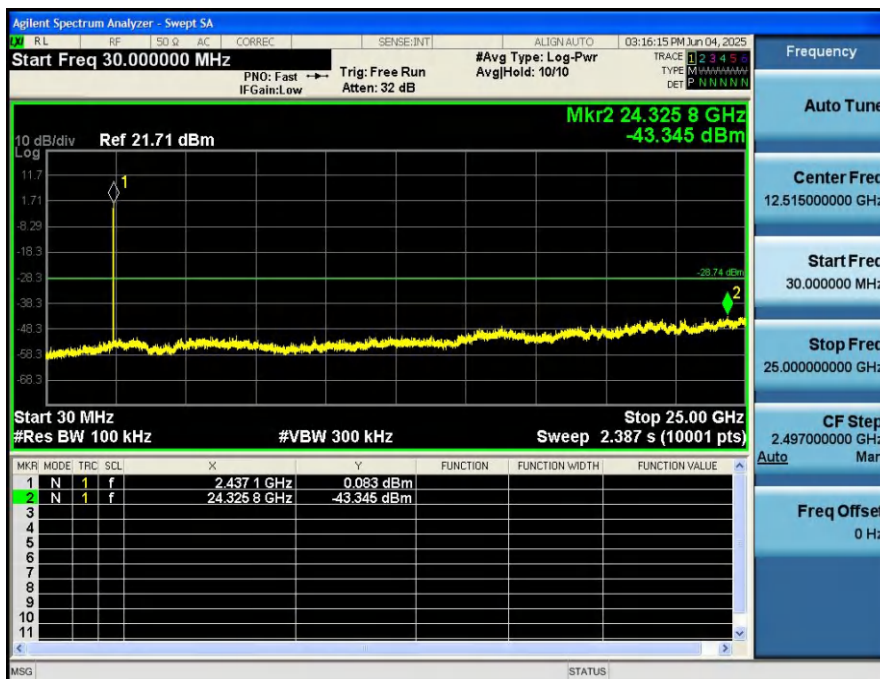
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1_Reference_Level_NVNT_ANT1_802_11b_2437



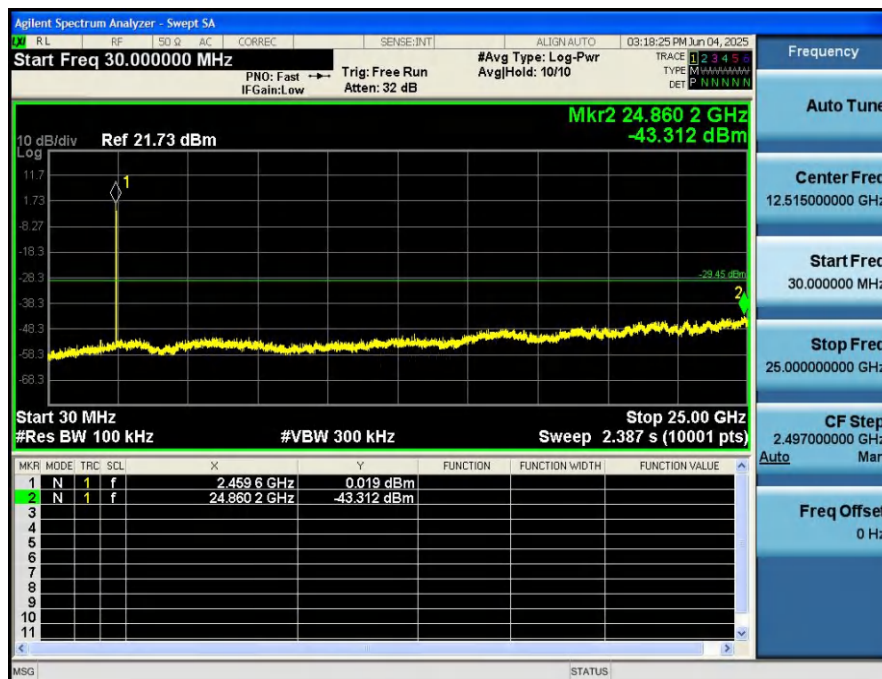
2_Spurious_Emission_NVNT_ANT1_802_11b_2437



1_Reference_Level_NVNT_ANT1_802_11b_2462



2_Spurious_Emission_NVNT_ANT1_802_11b_2462



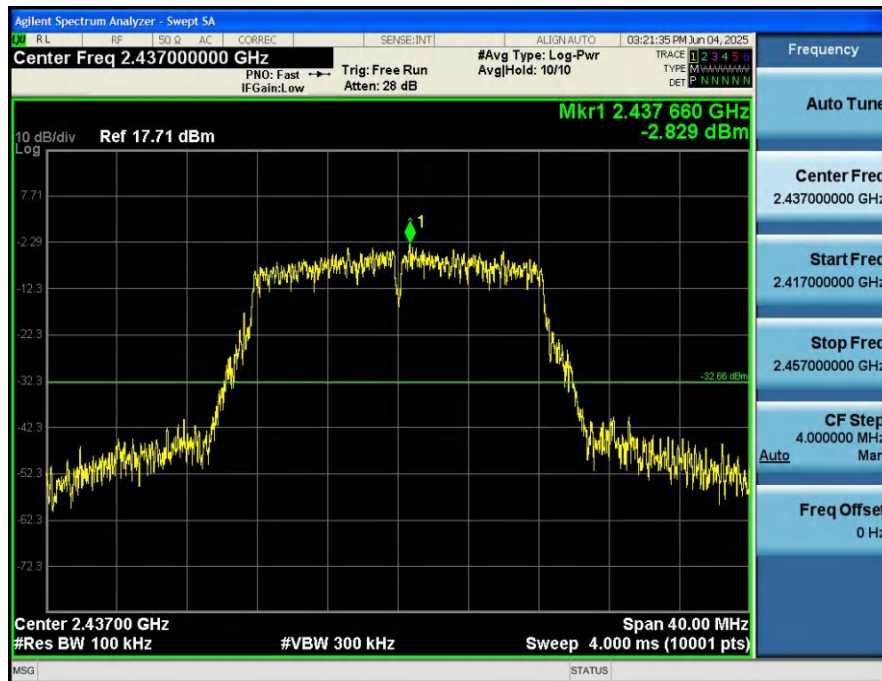
1_Reference_Level_NVNT_ANT1_802_11g_2412



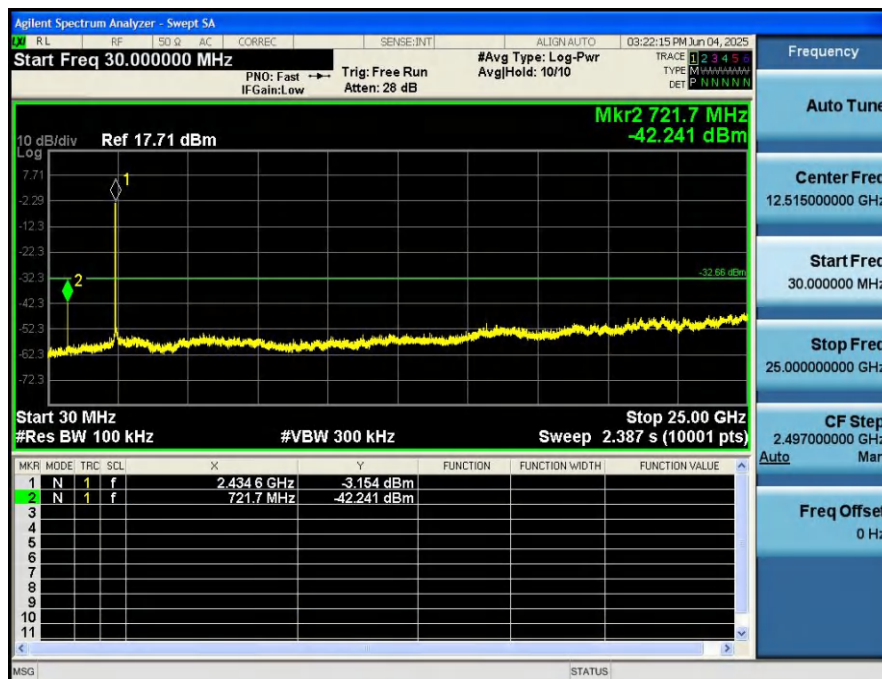
2_Spurious_Emission_NVNT_ANT1_802_11g_2412



1_Reference_Level_NVNT_ANT1_802_11g_2437



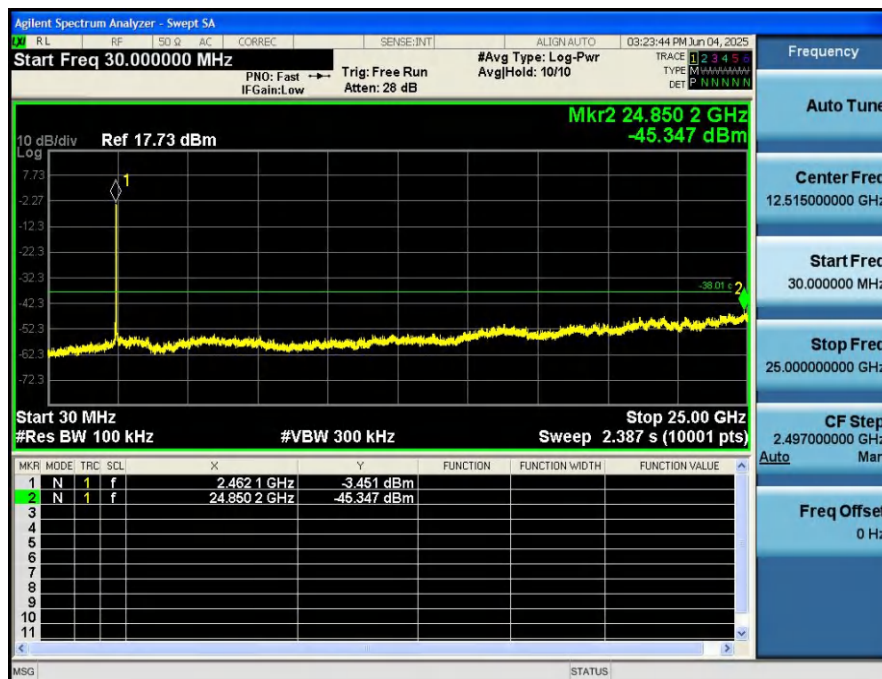
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1_Reference_Level_NVNT_ANT1_802_11g_2462



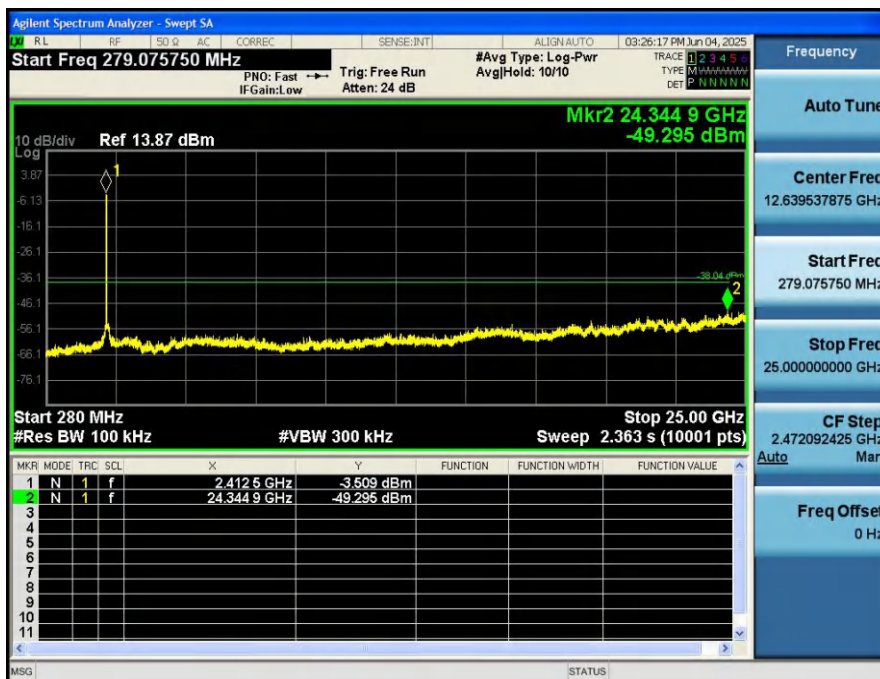
2_Spurious_Emission_NVNT_ANT1_802_11g_2462



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2412

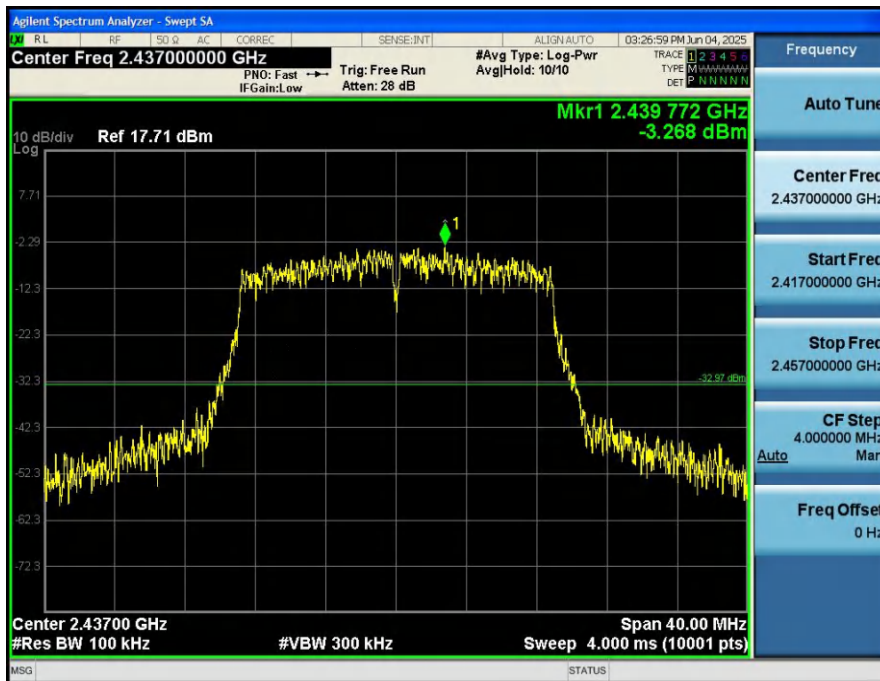


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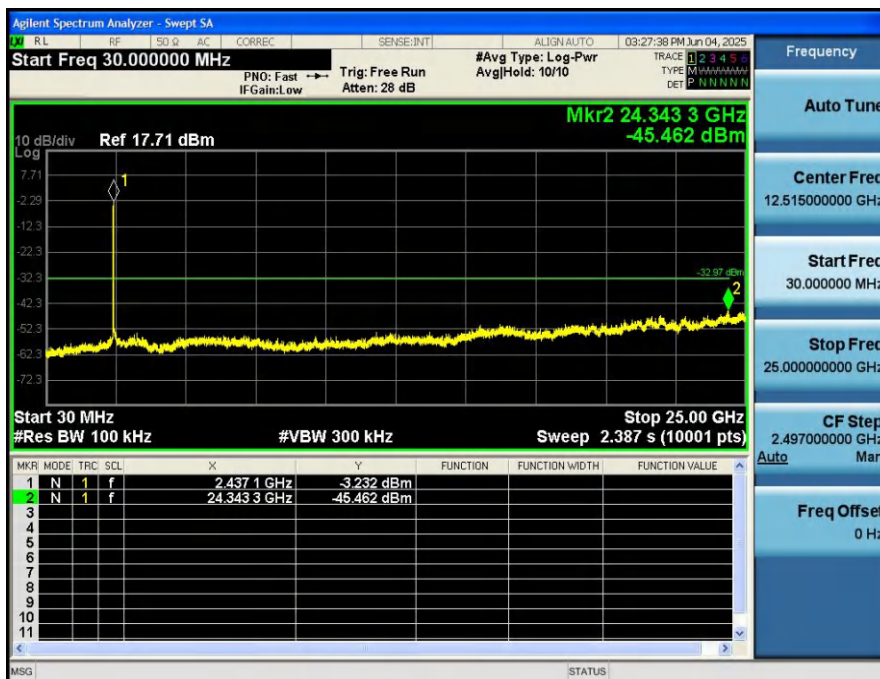
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1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2437



2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2437



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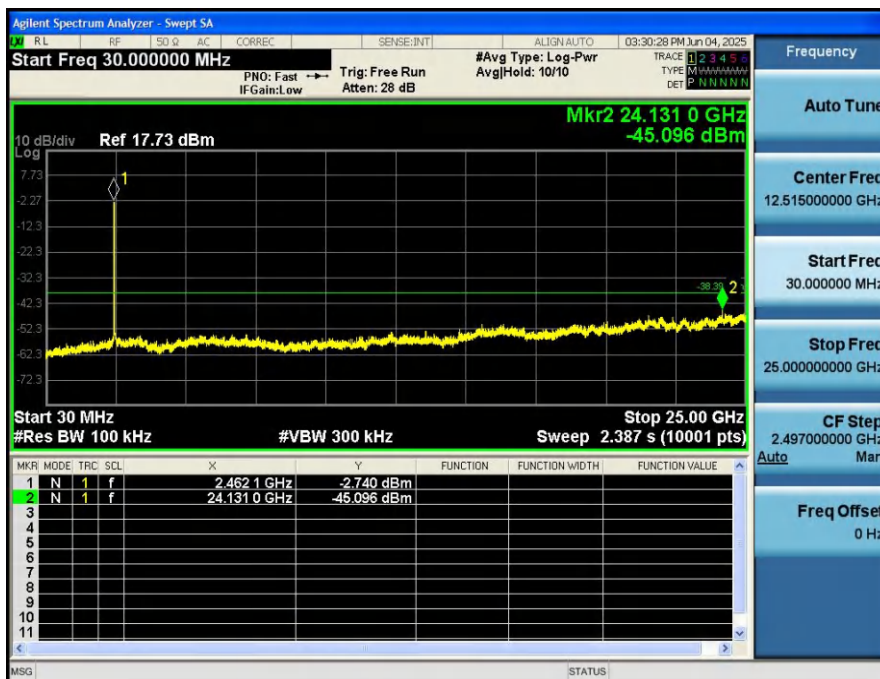
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