

Appendix Test Data

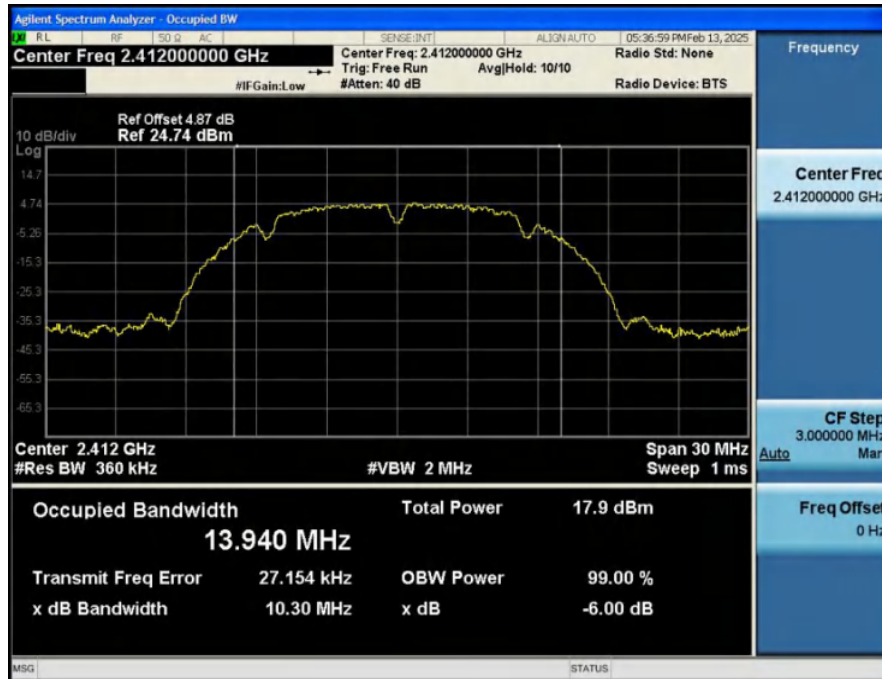
Report No.:	1813C50043212501	Test Sample No.:	1-2-2
Start Test Date:	2025.2.11	Finish Test Date:	2025.2.21
Test Engineer:	<i>Qiangfei Yang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	21.5°C	Relative Humidity:	47%
Pressure:	101kPa		

Appendix A: -6dB Bandwidth

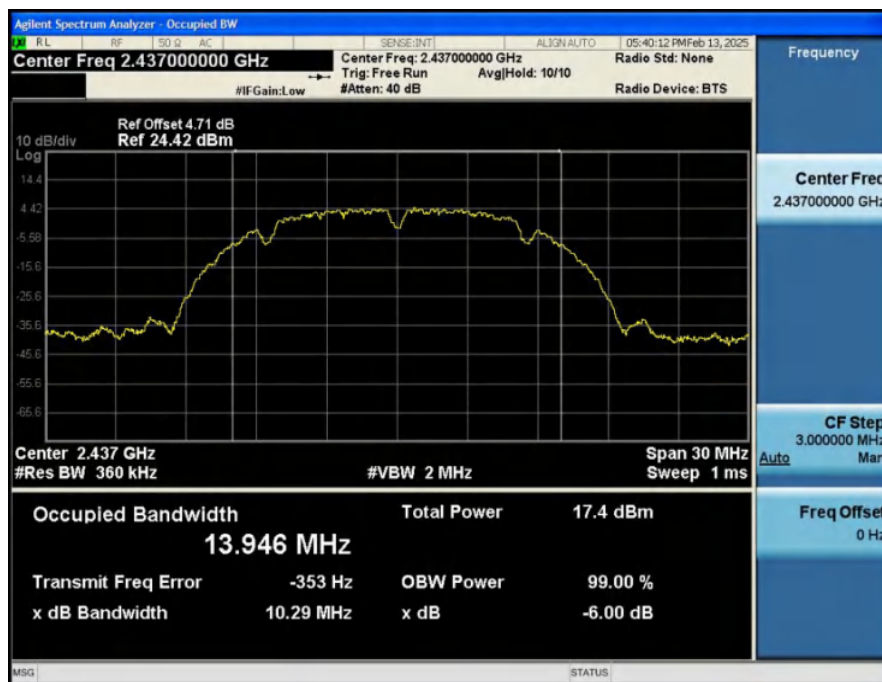
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	10.30	500	Pass
NVNT	ANT1	802.11b	2437.00	10.29	500	Pass
NVNT	ANT1	802.11b	2462.00	10.29	500	Pass
NVNT	ANT1	802.11g	2412.00	15.23	500	Pass
NVNT	ANT1	802.11g	2437.00	14.93	500	Pass
NVNT	ANT1	802.11g	2462.00	14.94	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	16.07	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	16.06	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	16.17	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	35.43	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	33.44	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.28	500	Pass



-6dB_Bandwidth_NVNT_ANT1_802_11b_2412



-6dB_Bandwidth_NVNT_ANT1_802_11b_2437



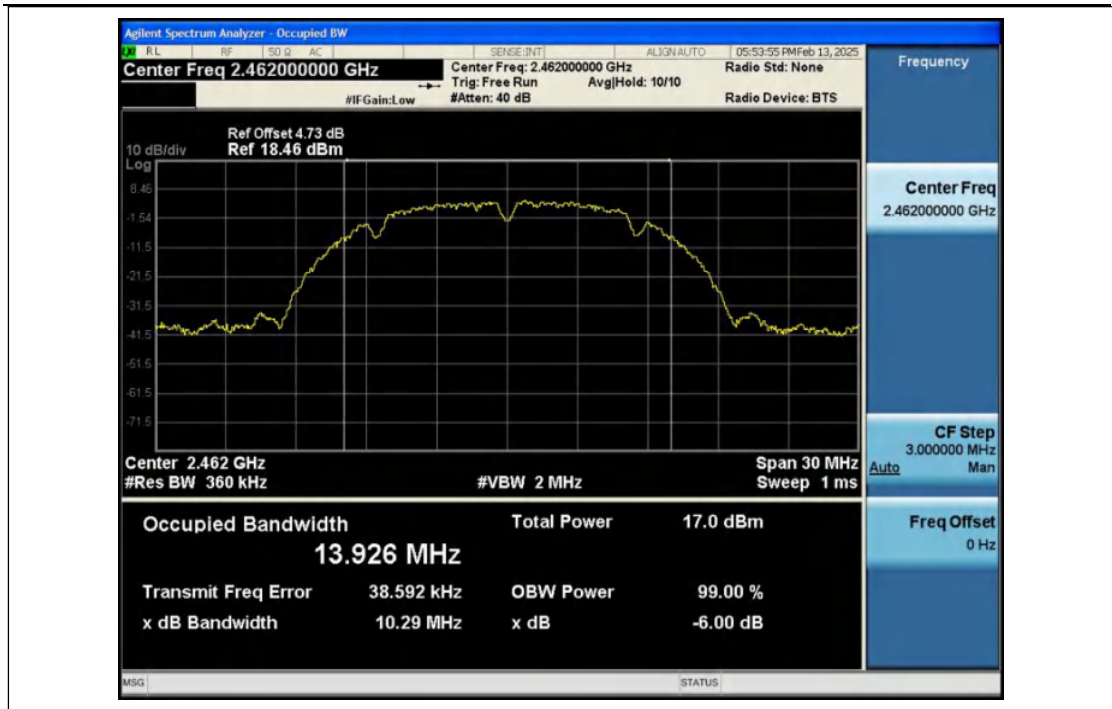
-6dB_Bandwidth_NVNT_ANT1_802_11b_2462

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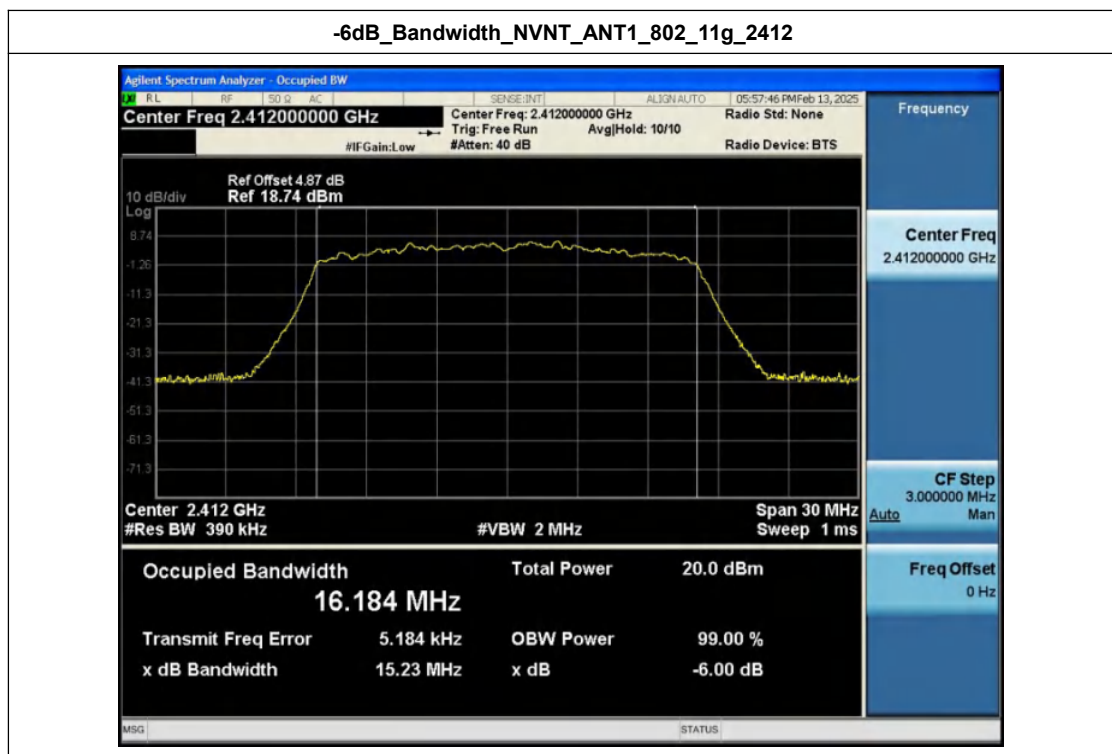
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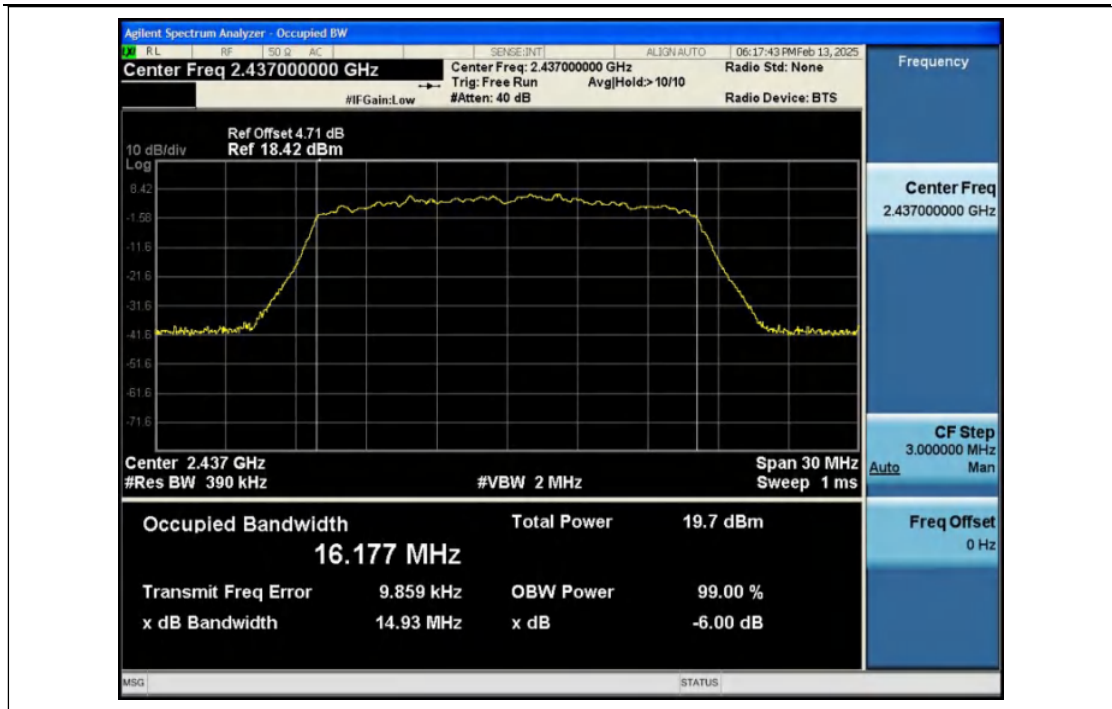
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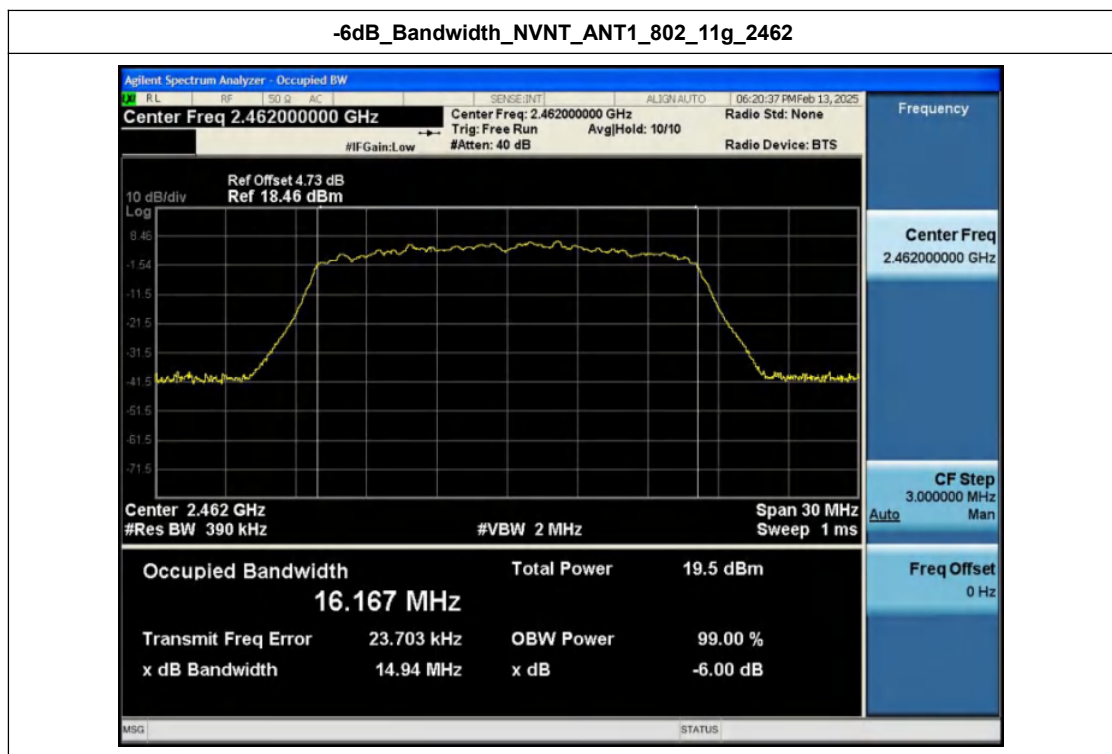
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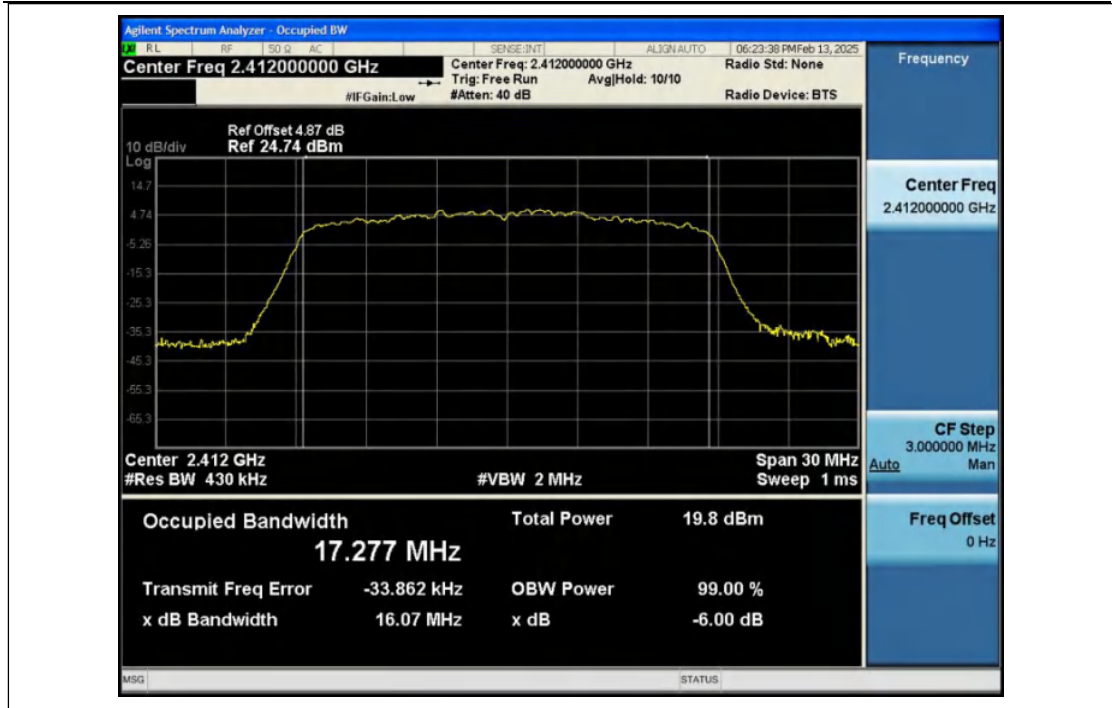
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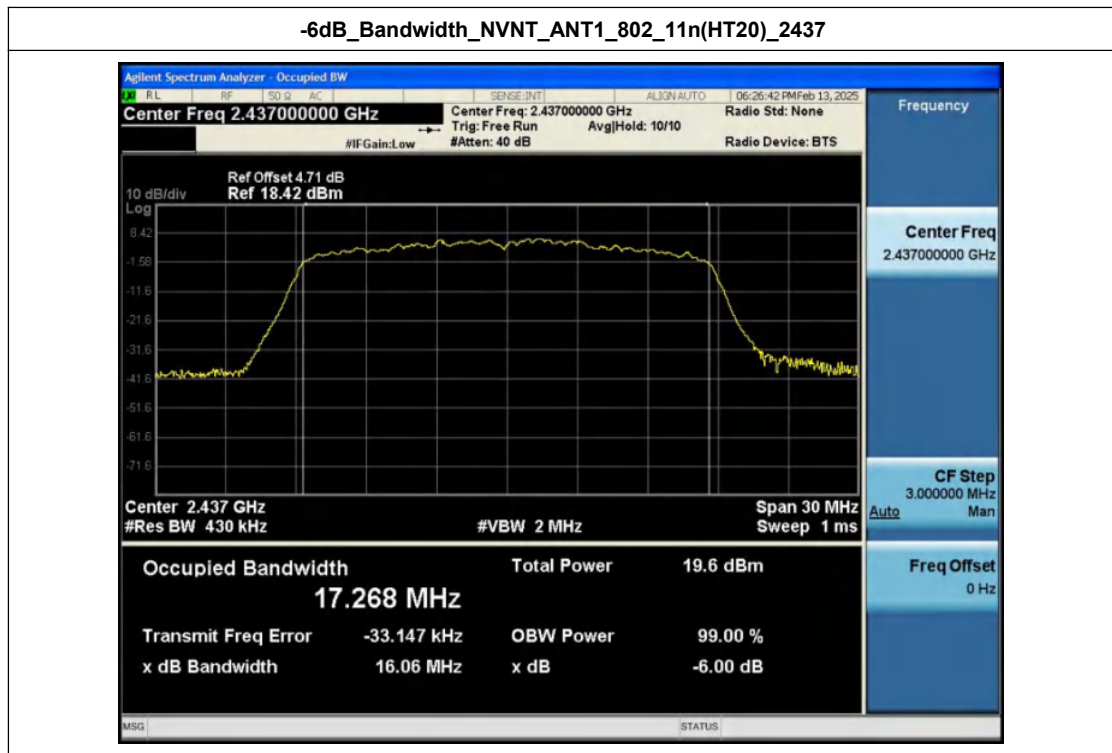
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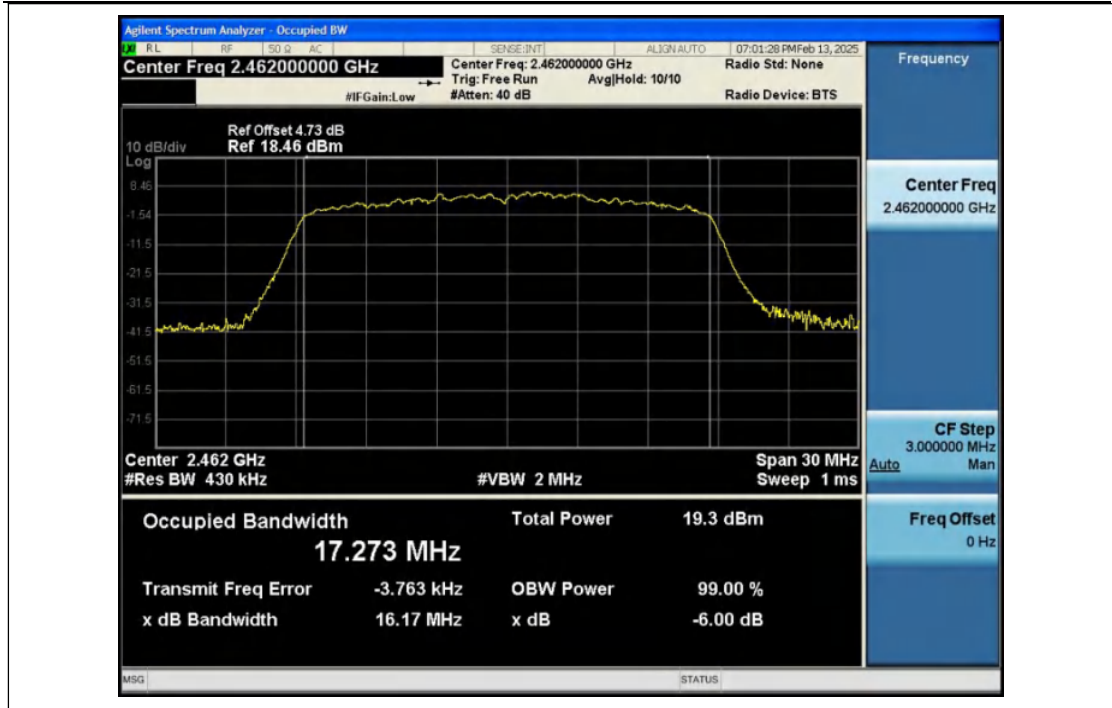
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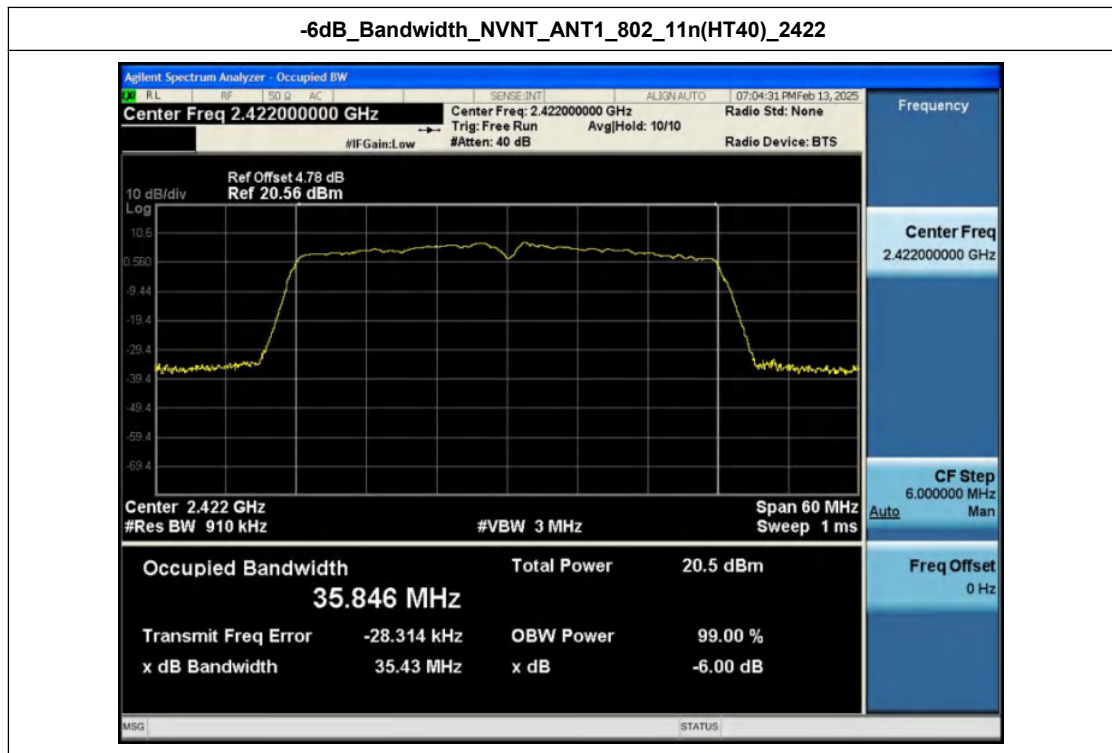
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-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462

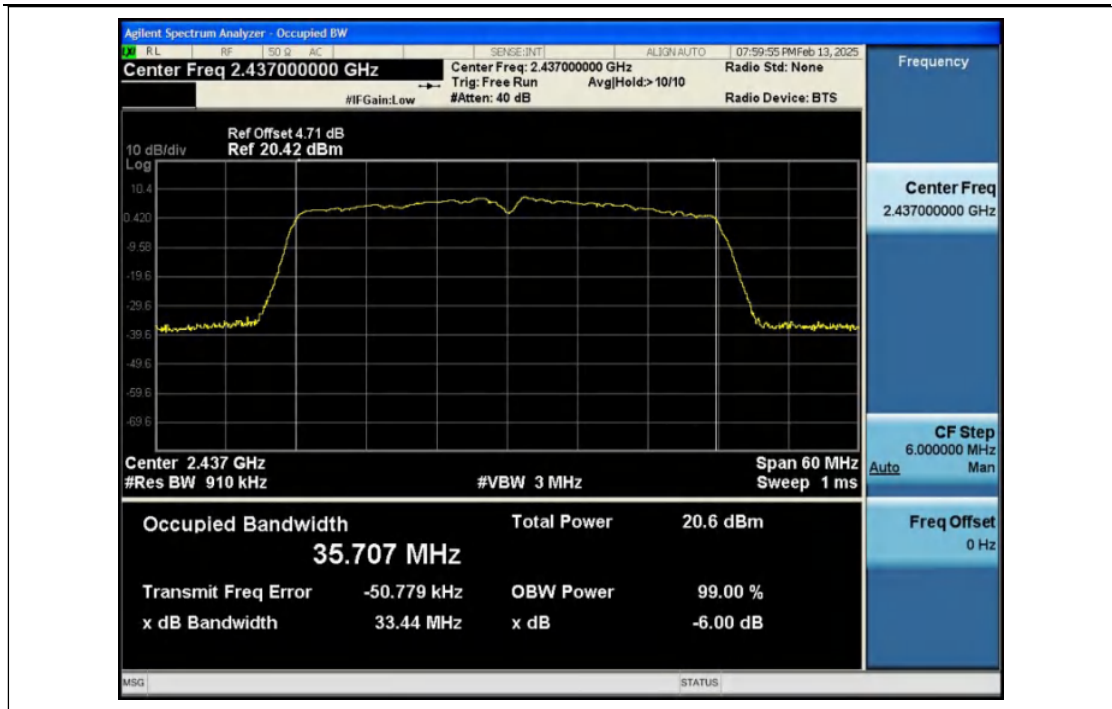


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422

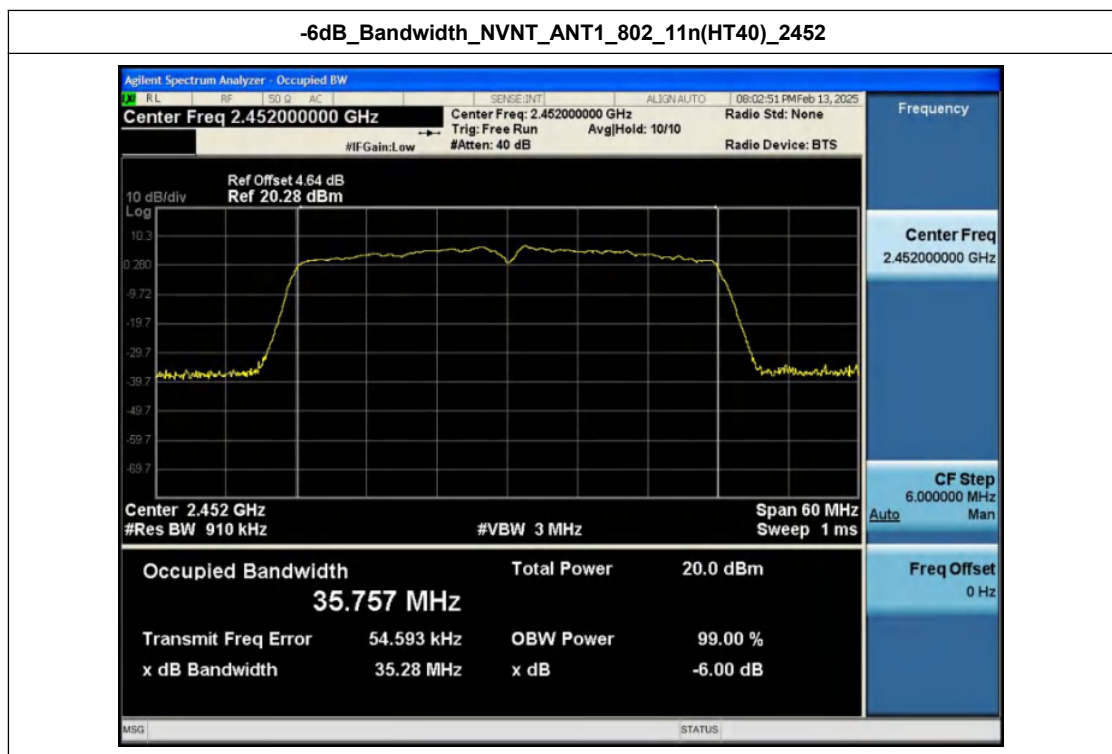


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437





-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



Appendix B: 99% Occupied Bandwidth

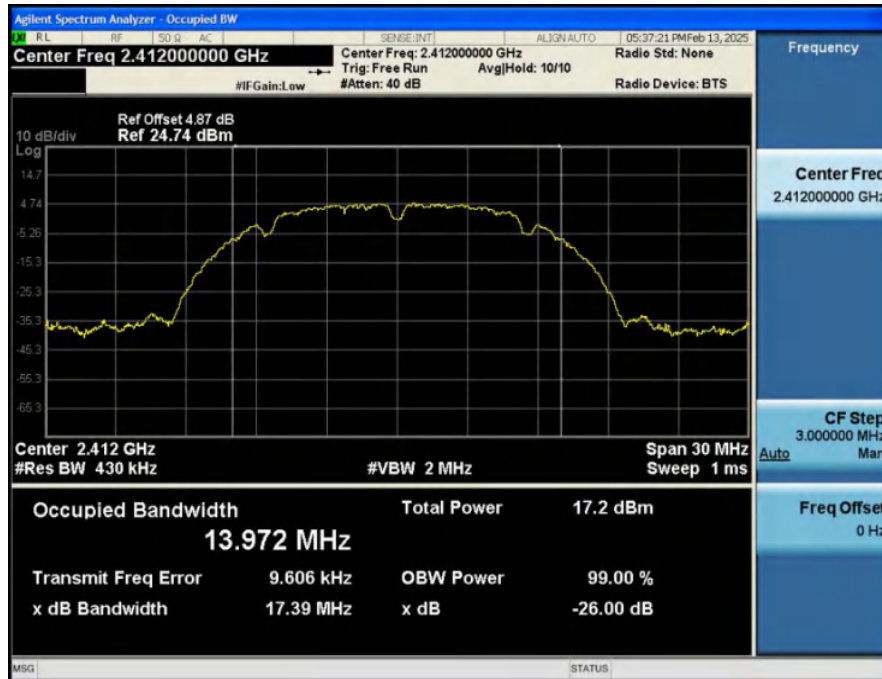
Condition	Antenna	Modulation	Frequency (MHz)	99%BW(MHz)
NVNT	ANT1	802.11b	2412.00	13.972
NVNT	ANT1	802.11b	2437.00	13.941
NVNT	ANT1	802.11b	2462.00	13.943
NVNT	ANT1	802.11g	2412.00	16.203
NVNT	ANT1	802.11g	2437.00	16.196
NVNT	ANT1	802.11g	2462.00	16.194
NVNT	ANT1	802.11n(HT20)	2412.00	17.292
NVNT	ANT1	802.11n(HT20)	2437.00	17.280
NVNT	ANT1	802.11n(HT20)	2462.00	17.289
NVNT	ANT1	802.11n(HT40)	2422.00	35.850
NVNT	ANT1	802.11n(HT40)	2437.00	35.704
NVNT	ANT1	802.11n(HT40)	2452.00	35.762

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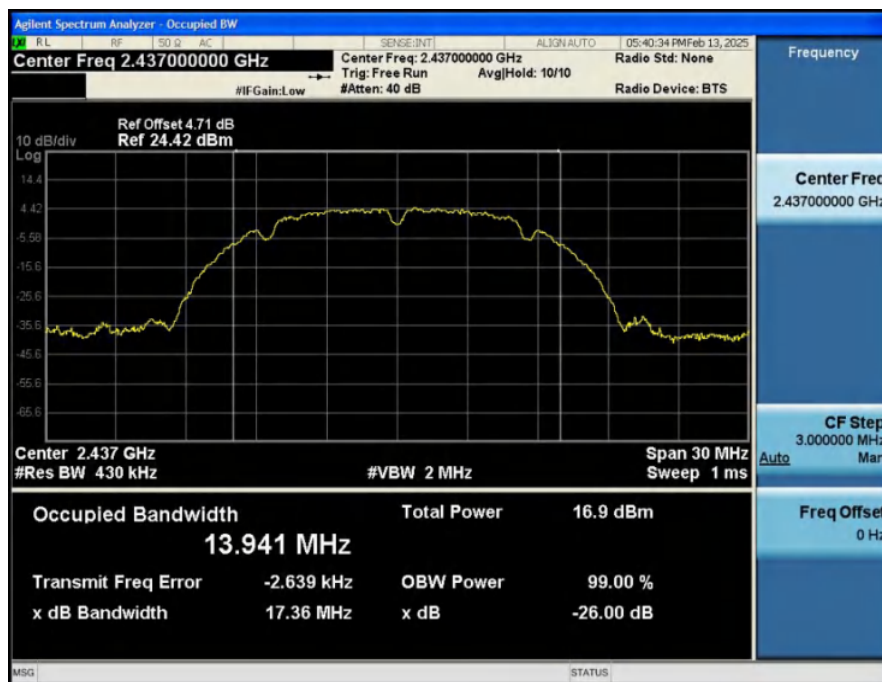
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99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2412



99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2437

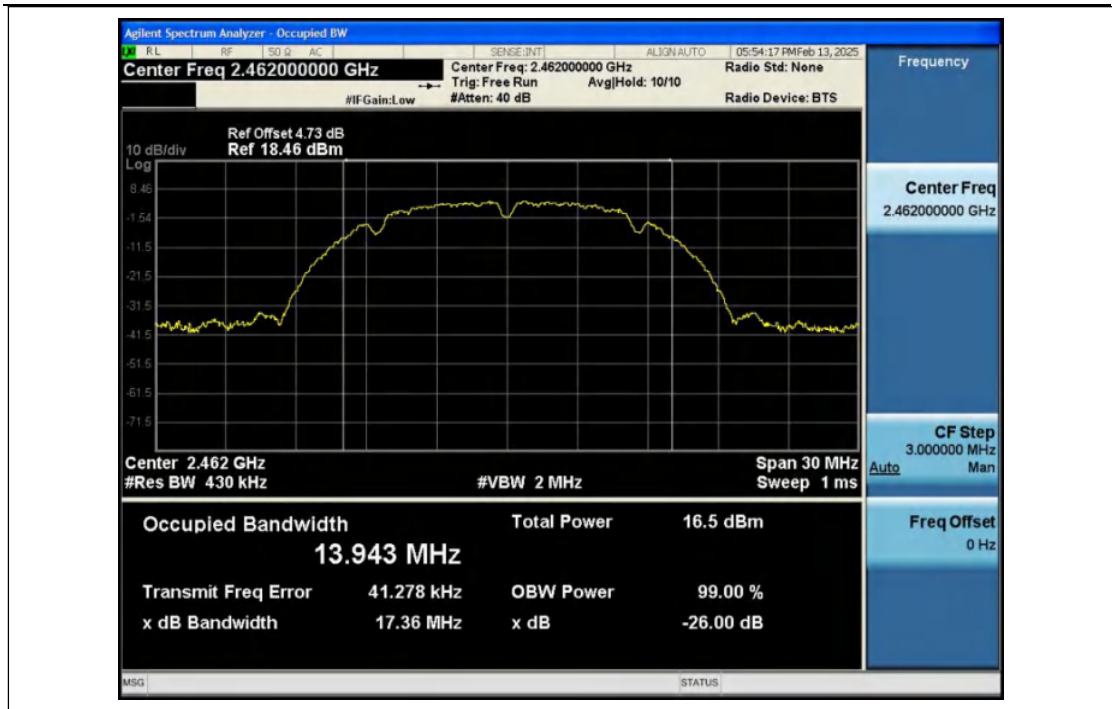


99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2462

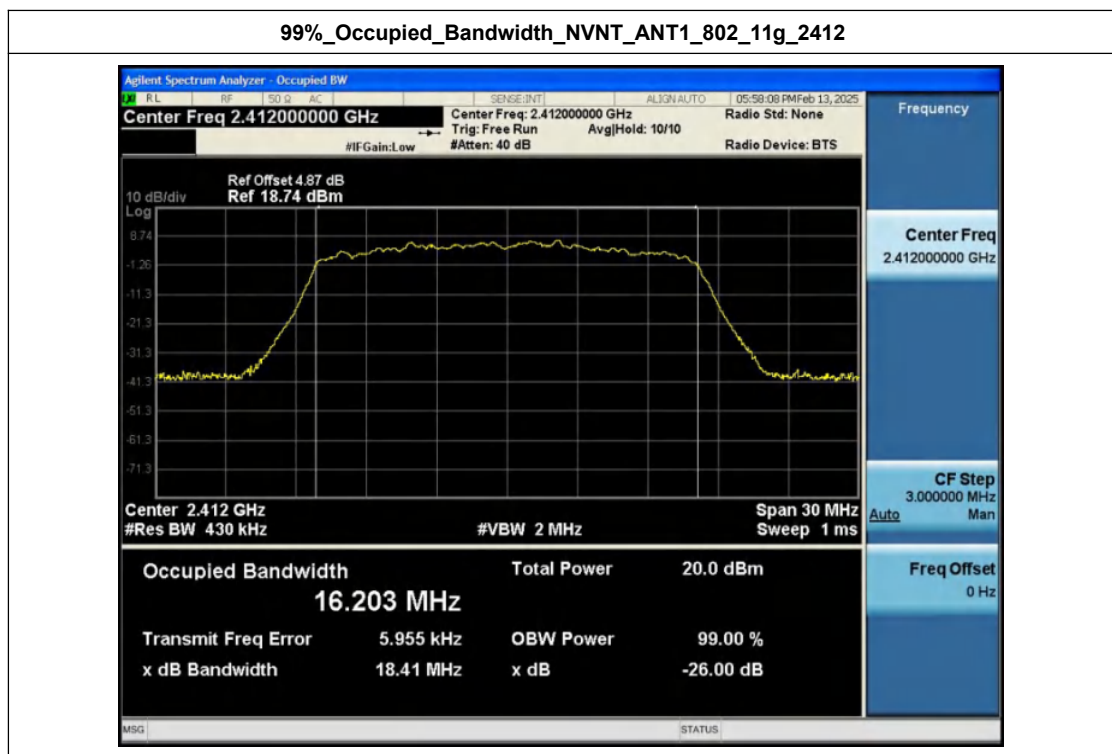
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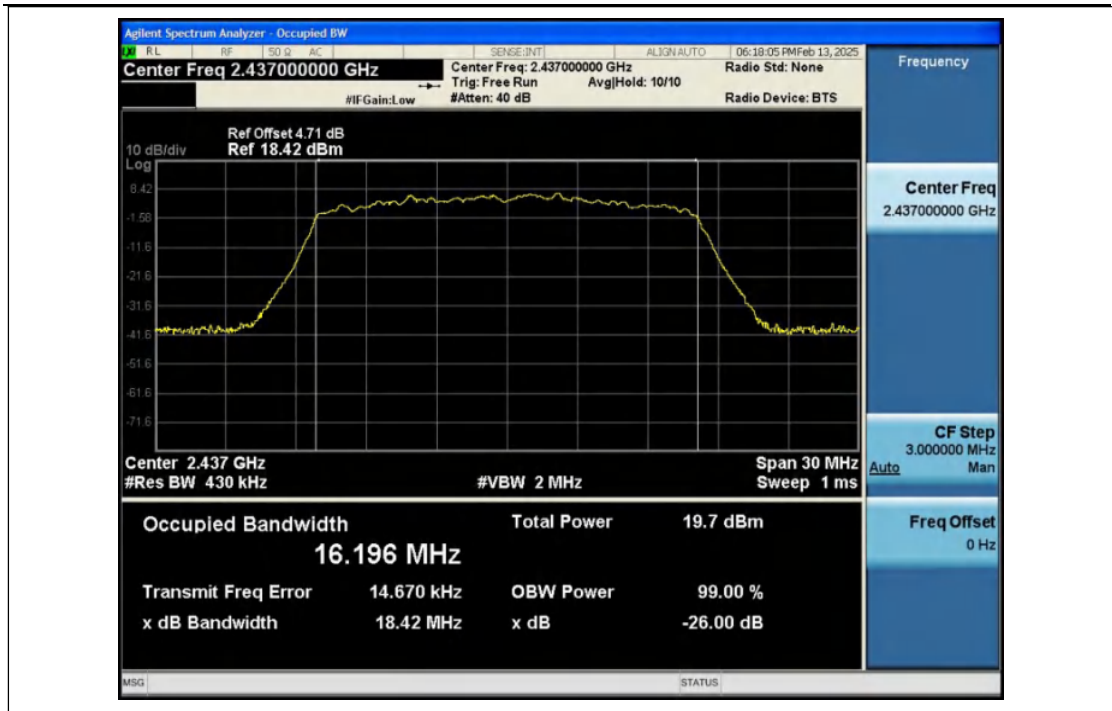
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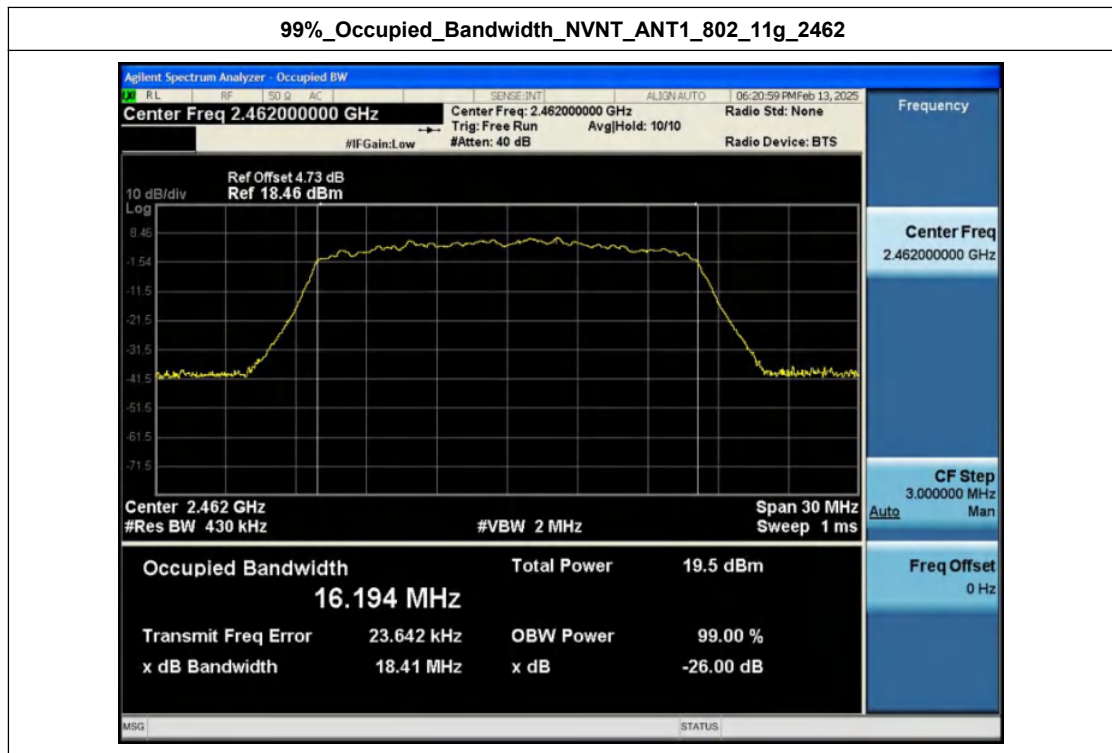
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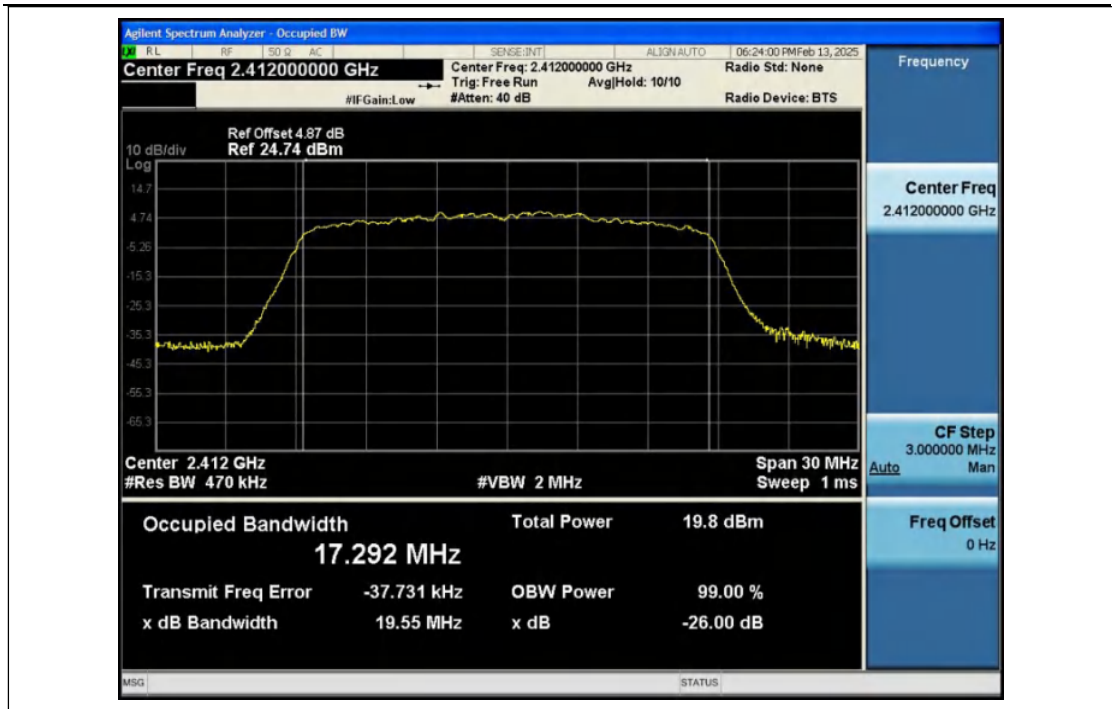
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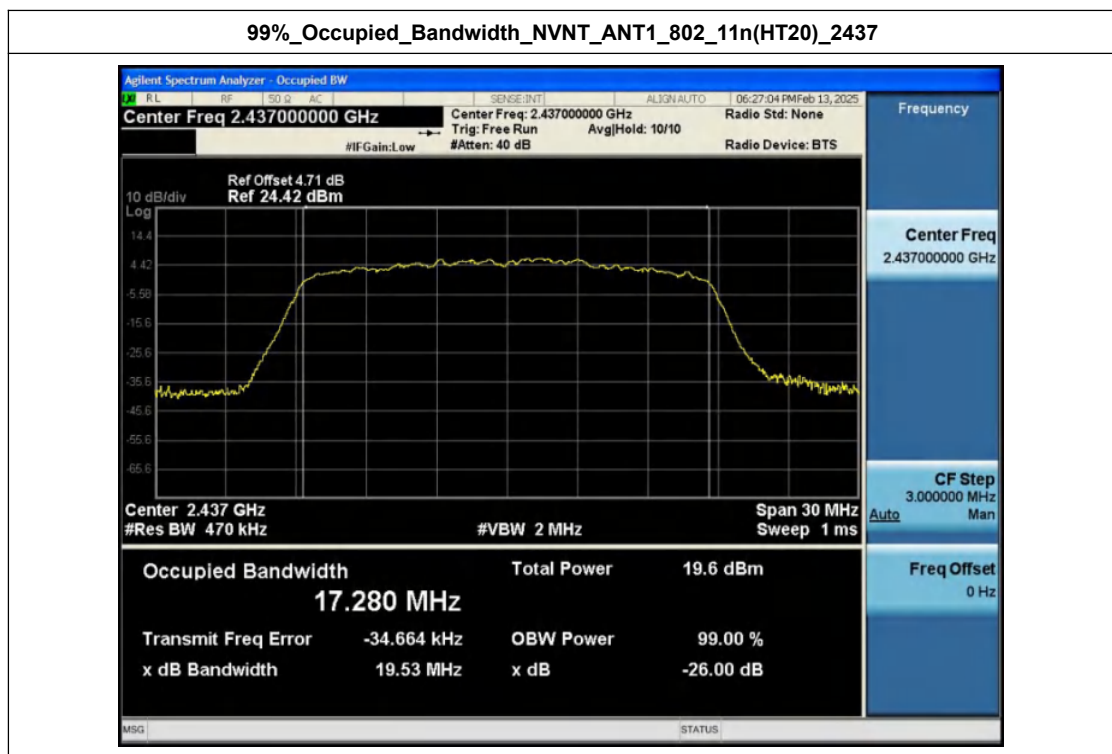
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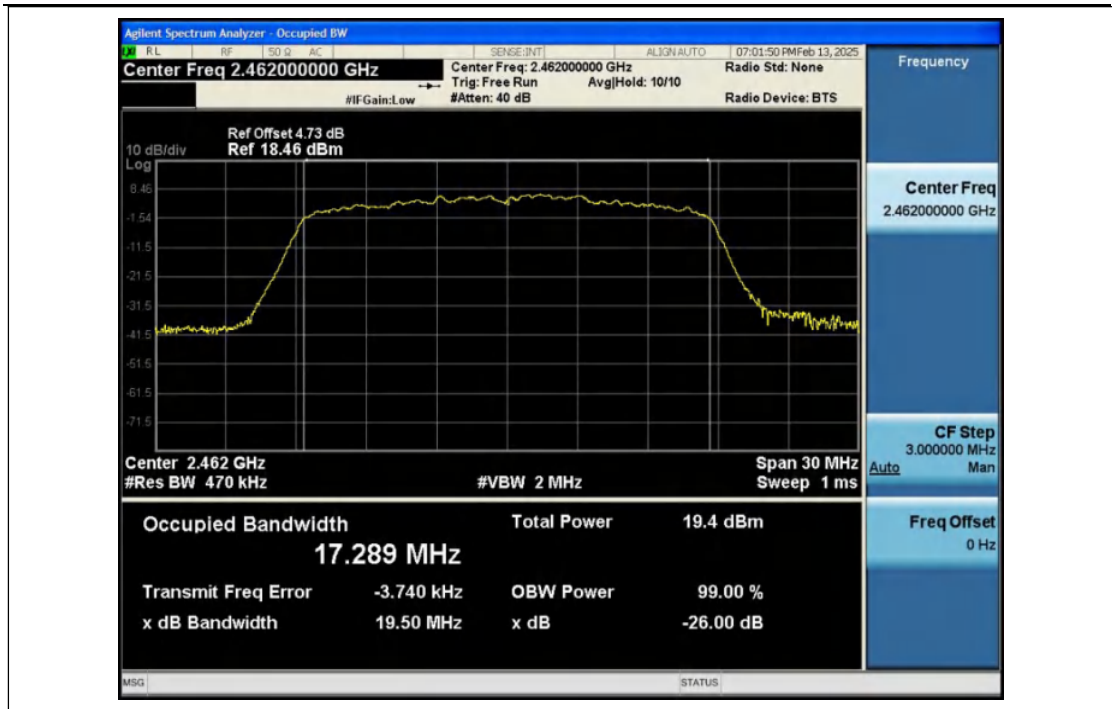
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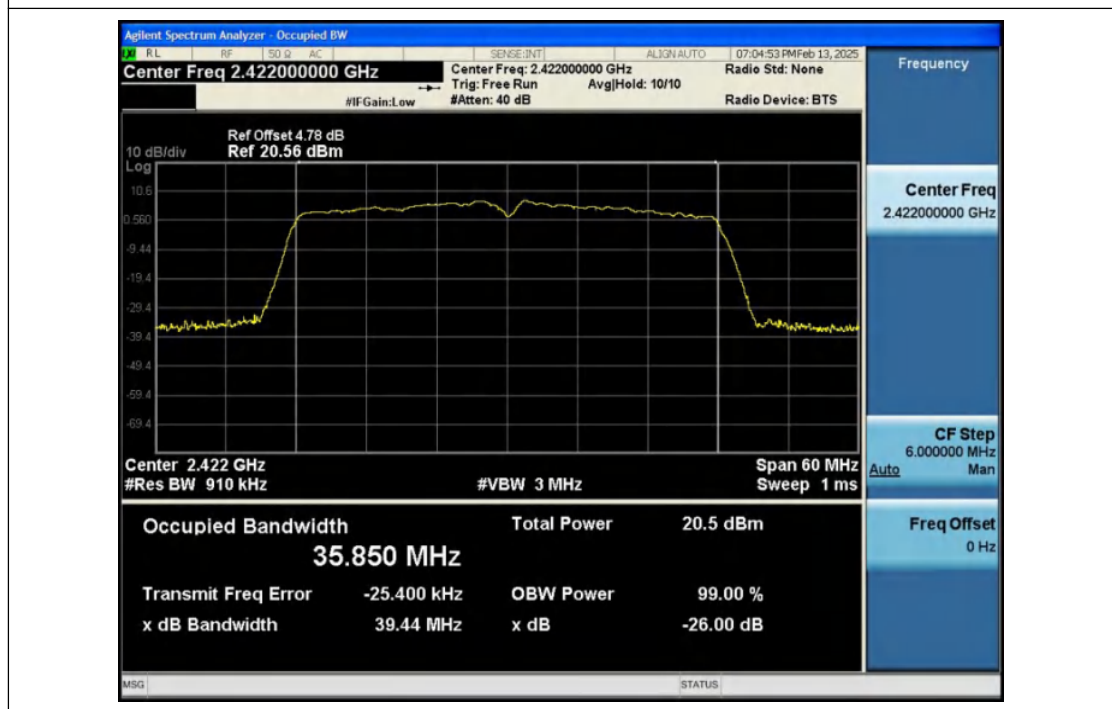
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99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



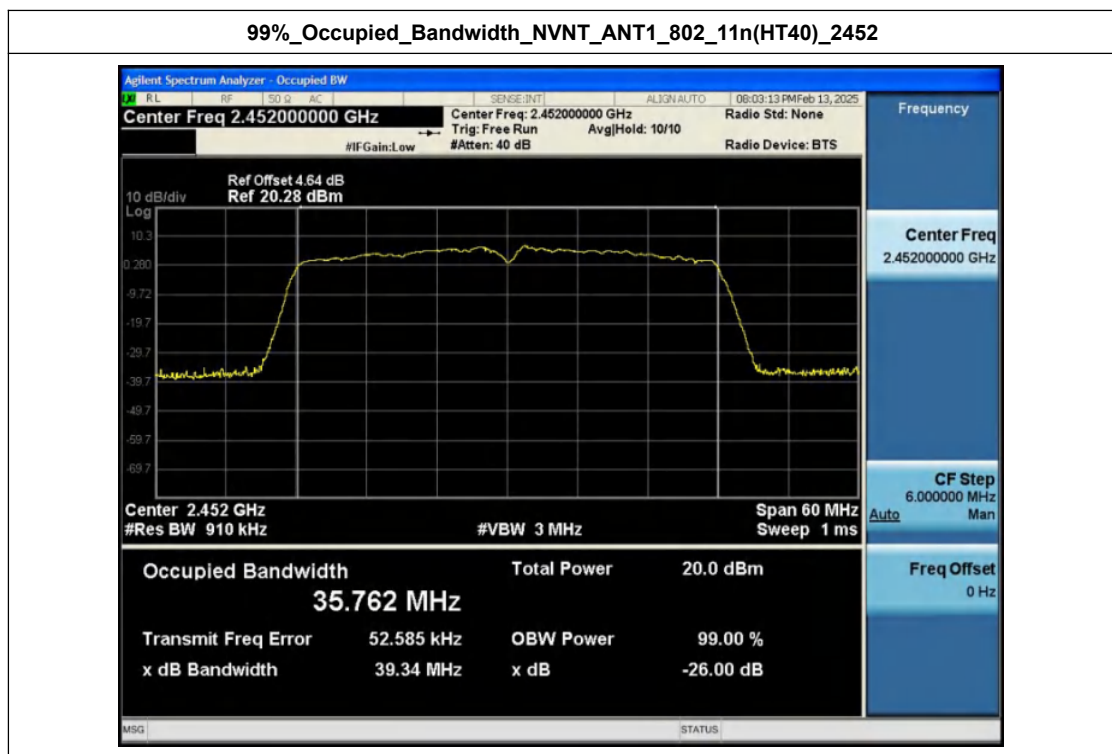
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



Appendix C: Duty Cycle

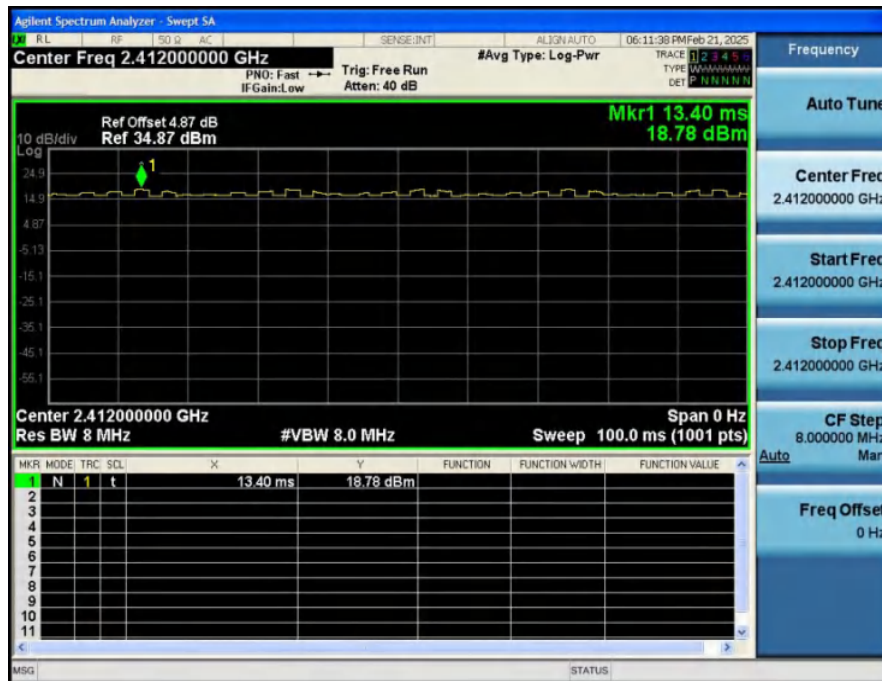
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	100	0.00
NVNT	ANT1	802.11b	2437.00	100	0.00
NVNT	ANT1	802.11b	2462.00	100	0.00
NVNT	ANT1	802.11g	2412.00	100	0.00
NVNT	ANT1	802.11g	2437.00	100	0.00
NVNT	ANT1	802.11g	2462.00	100	0.00
NVNT	ANT1	802.11n(HT20)	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
NVNT	ANT1	802.11n(HT40)	2422.00	100	0.00
NVNT	ANT1	802.11n(HT40)	2437.00	100	0.00
NVNT	ANT1	802.11n(HT40)	2452.00	100	0.00

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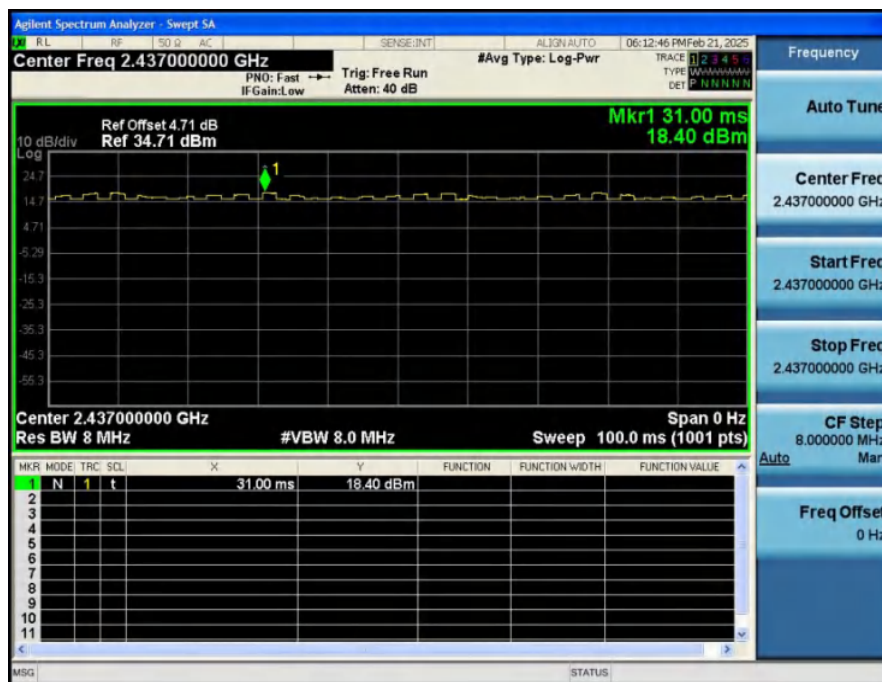
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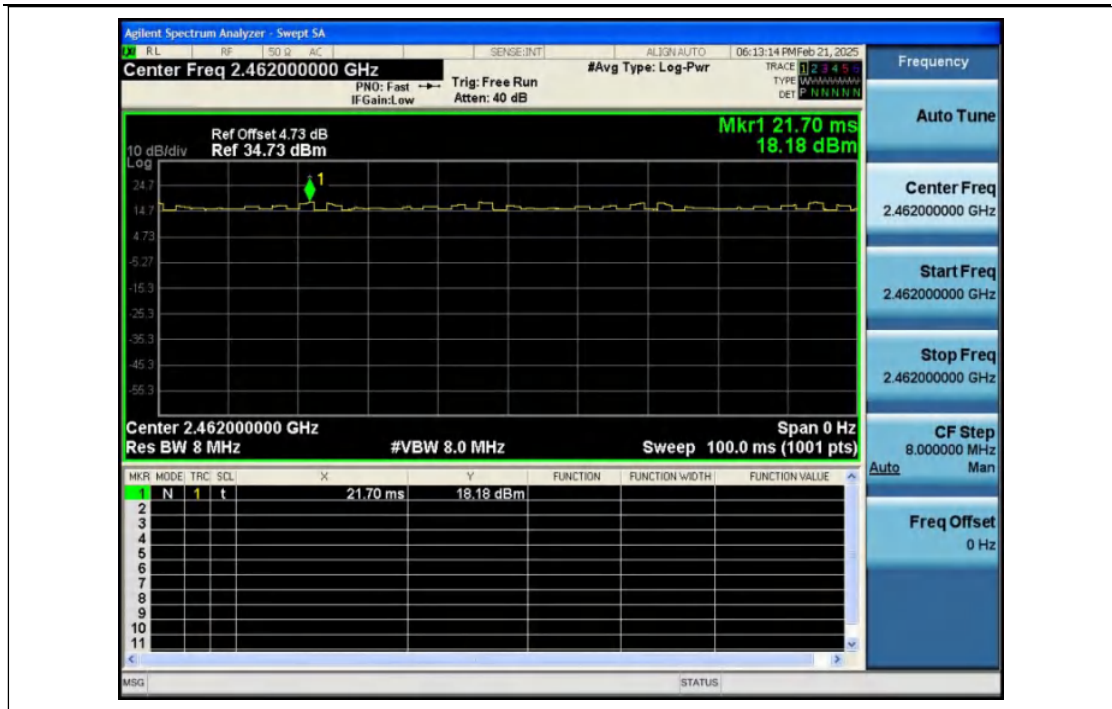
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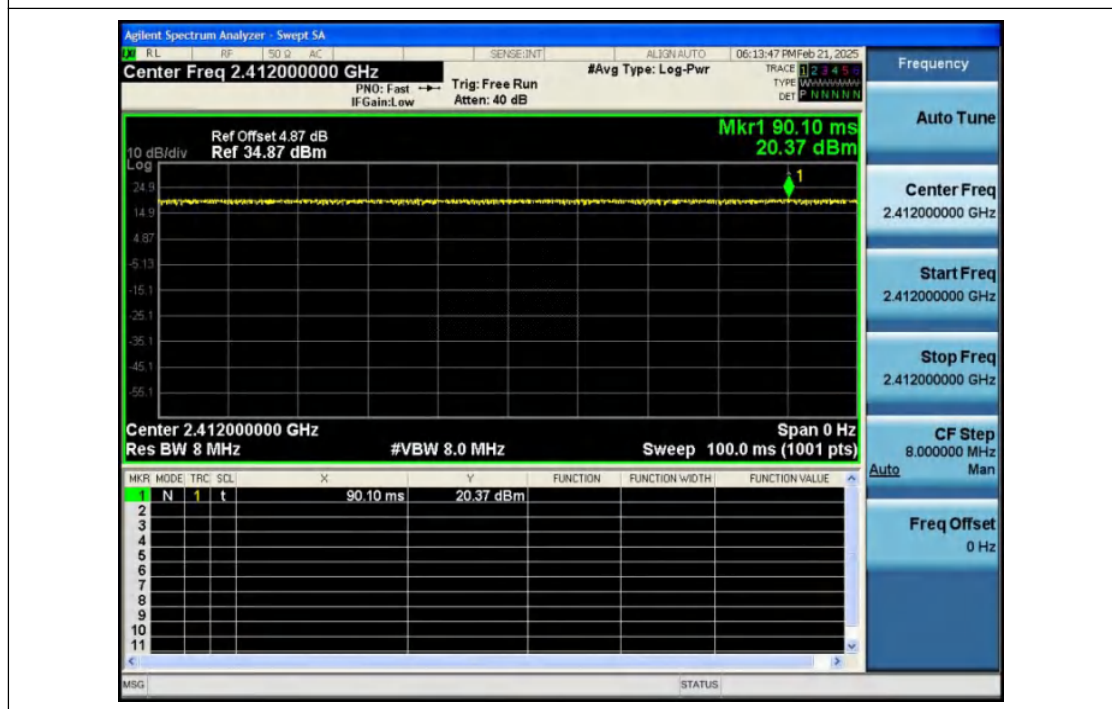
Duty_Cycle_NVNT_ANT1_802_11b_2437



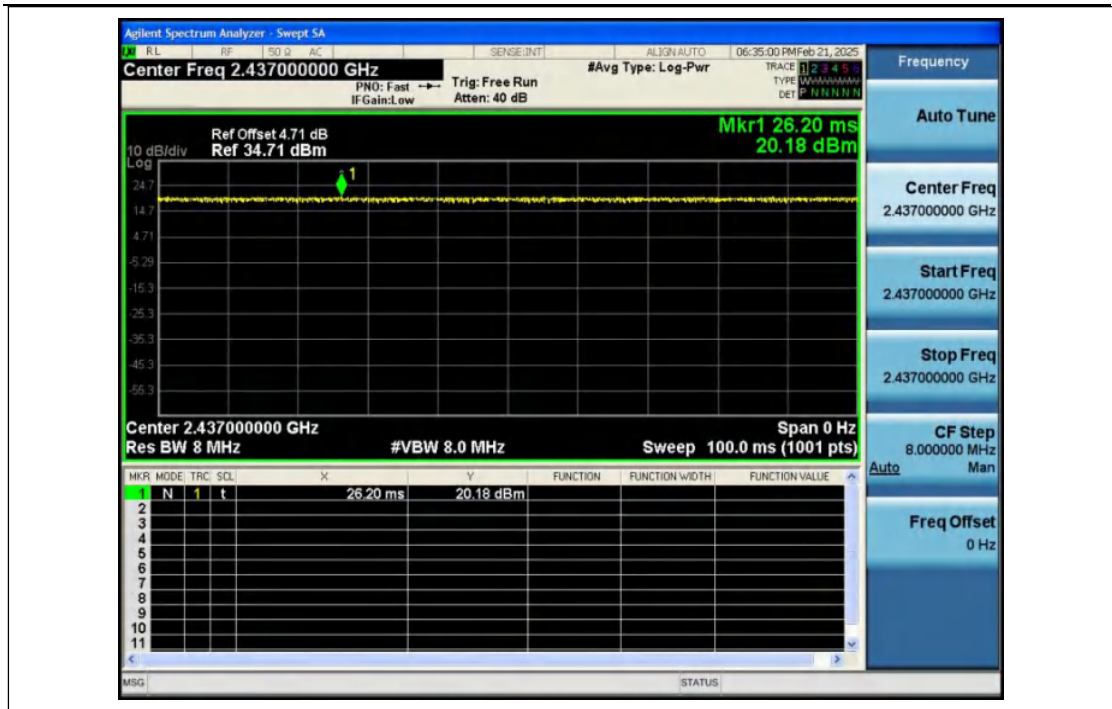
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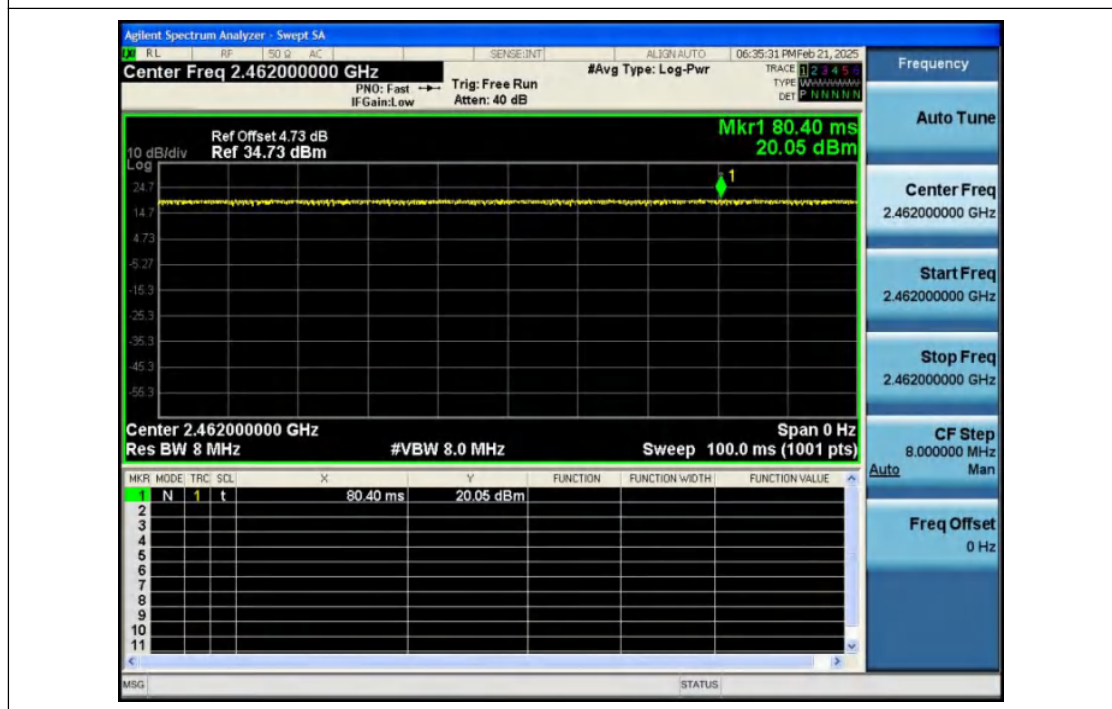
Duty_Cycle_NVNT_ANT1_802_11g_2412



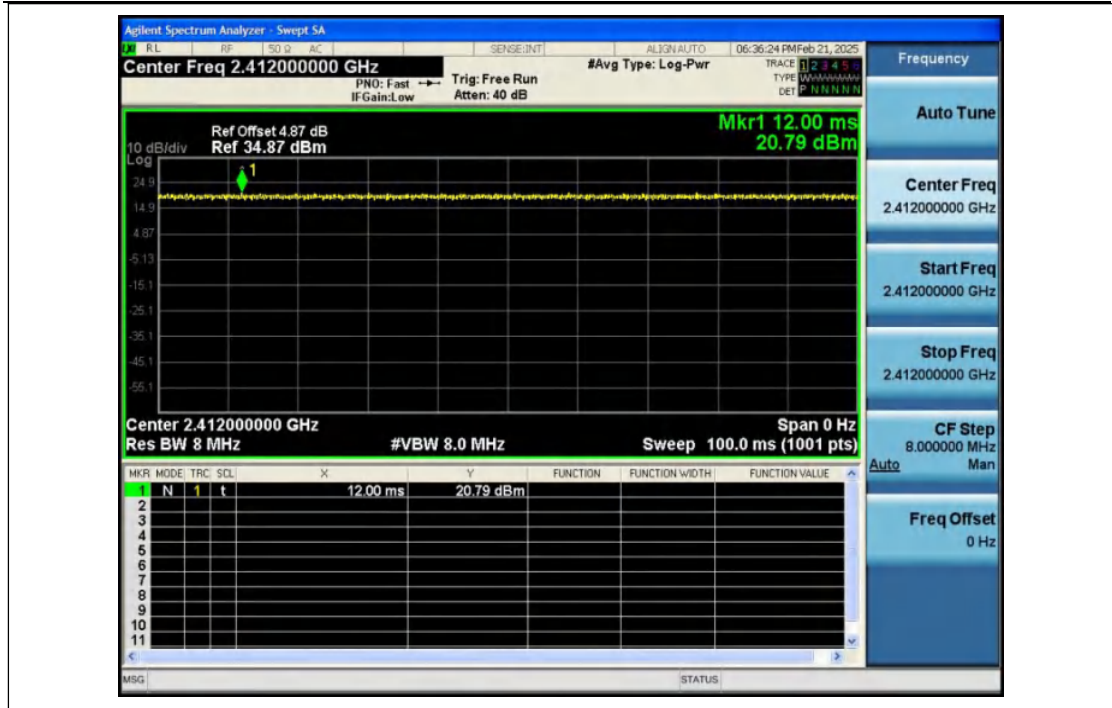
Duty_Cycle_NVNT_ANT1_802_11g_2437



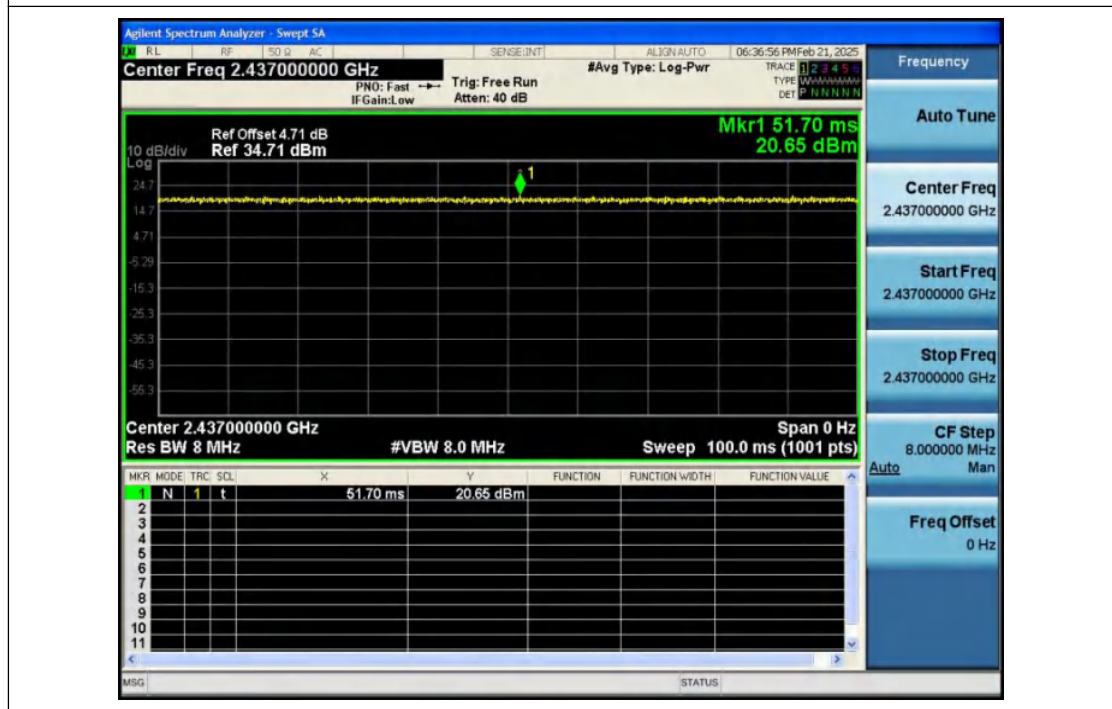
Duty_Cycle_NVNT_ANT1_802_11g_2462



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437

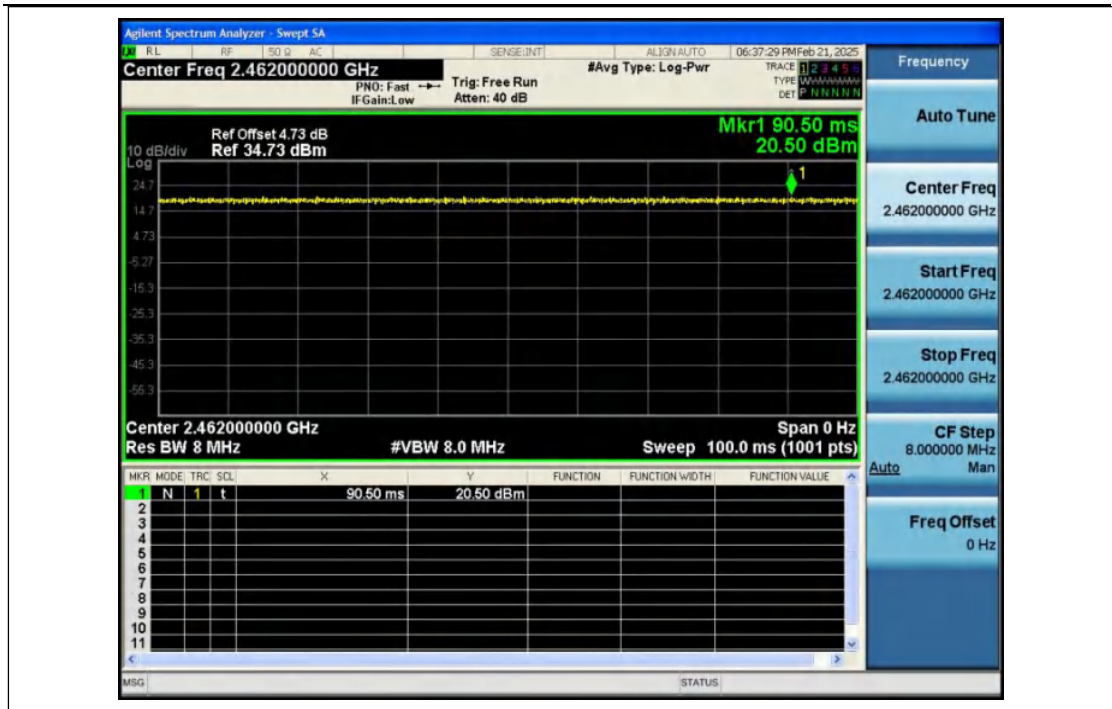


Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462

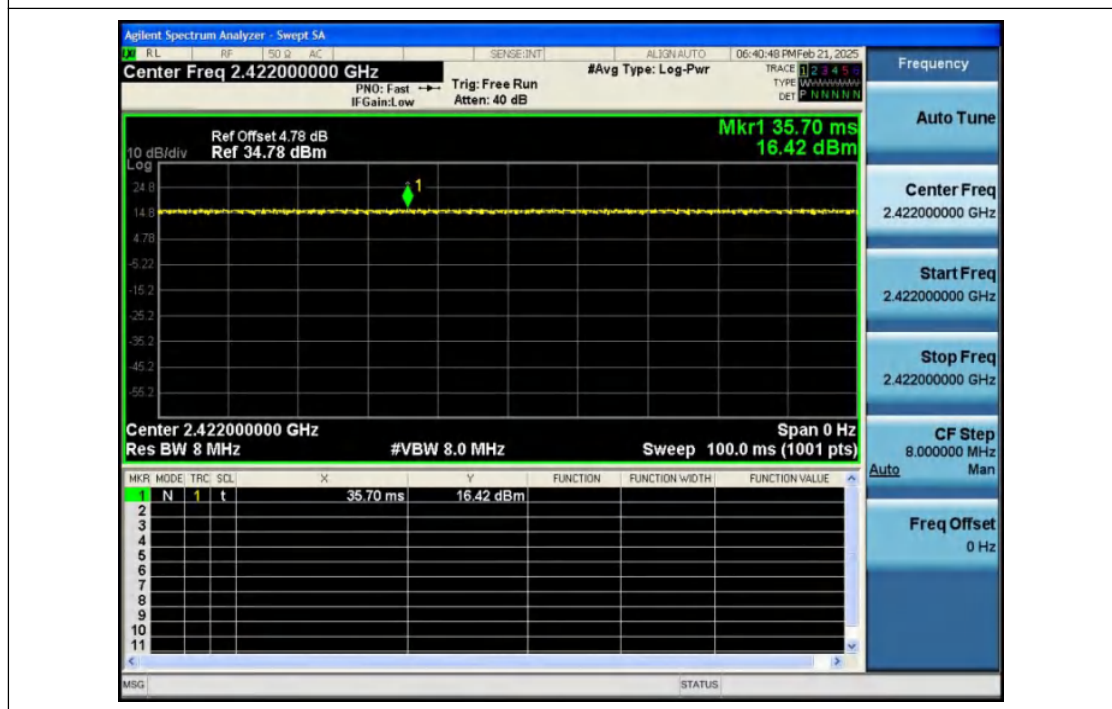
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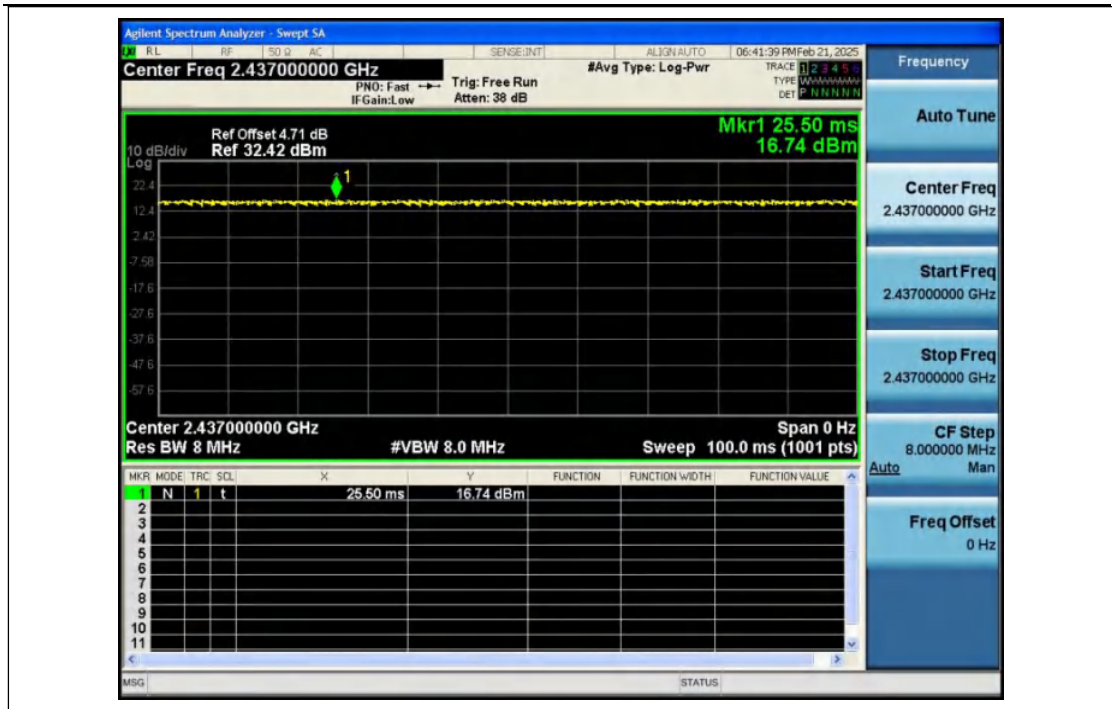
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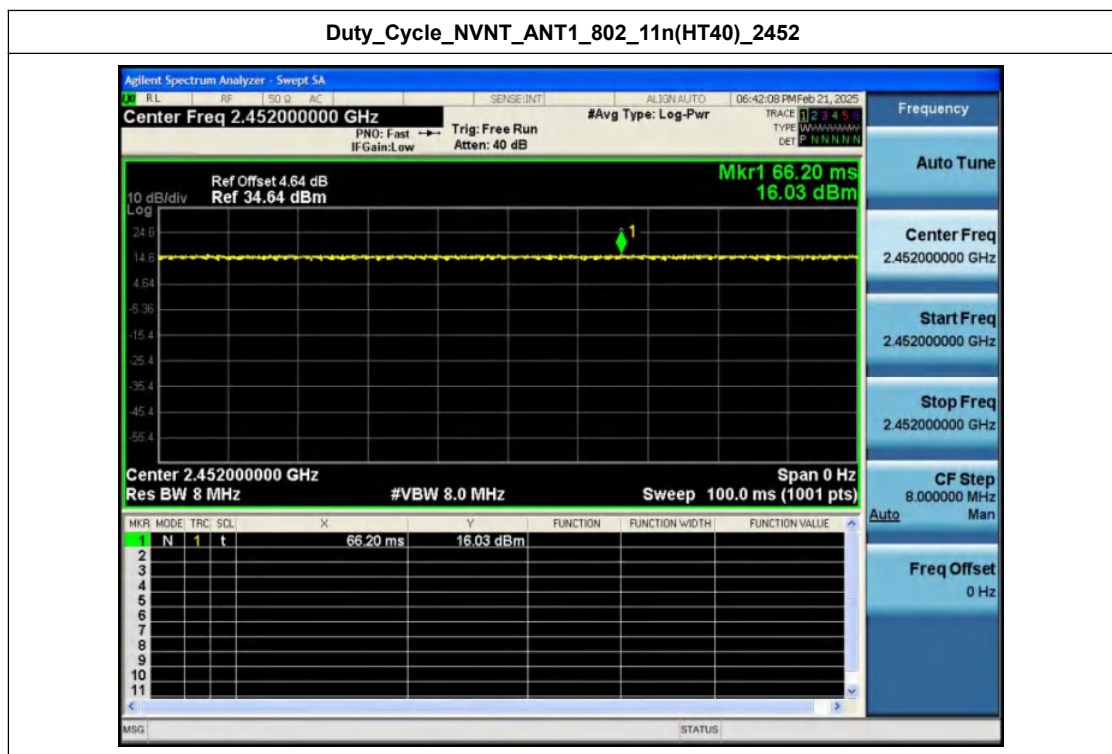
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2422



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2437



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2452



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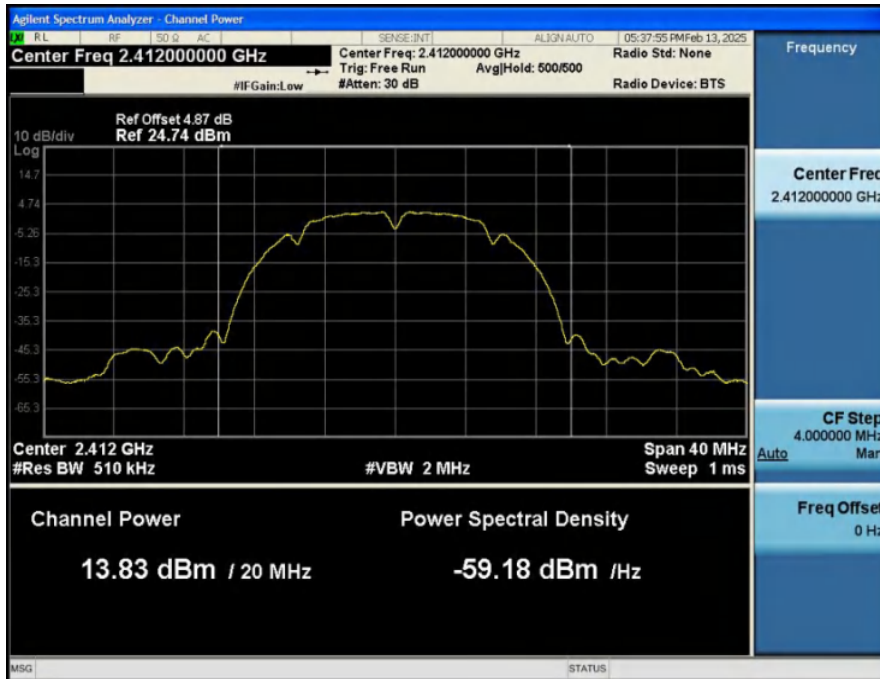
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Appendix D: MAX. Output Power

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	13.83	0.00	13.83	30	Pass
NVNT	ANT1	802.11b	2437.00	RMS	13.43	0.00	13.43	30	Pass
NVNT	ANT1	802.11b	2462.00	RMS	13.11	0.00	13.11	30	Pass
NVNT	ANT1	802.11g	2412.00	RMS	13.42	0.00	13.42	30	Pass
NVNT	ANT1	802.11g	2437.00	RMS	13.13	0.00	13.13	30	Pass
NVNT	ANT1	802.11g	2462.00	RMS	12.99	0.00	12.99	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	RMS	13.07	0.00	13.07	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	RMS	12.99	0.00	12.99	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	RMS	12.78	0.00	12.78	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	RMS	12.81	0.00	12.81	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	RMS	12.83	0.00	12.83	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	RMS	12.44	0.00	12.44	30	Pass

Note: The cable loss are compensated in the graph.

MAX__Output_Power_NVNT_ANT1_802_11b_2412



MAX__Output_Power_NVNT_ANT1_802_11b_2437

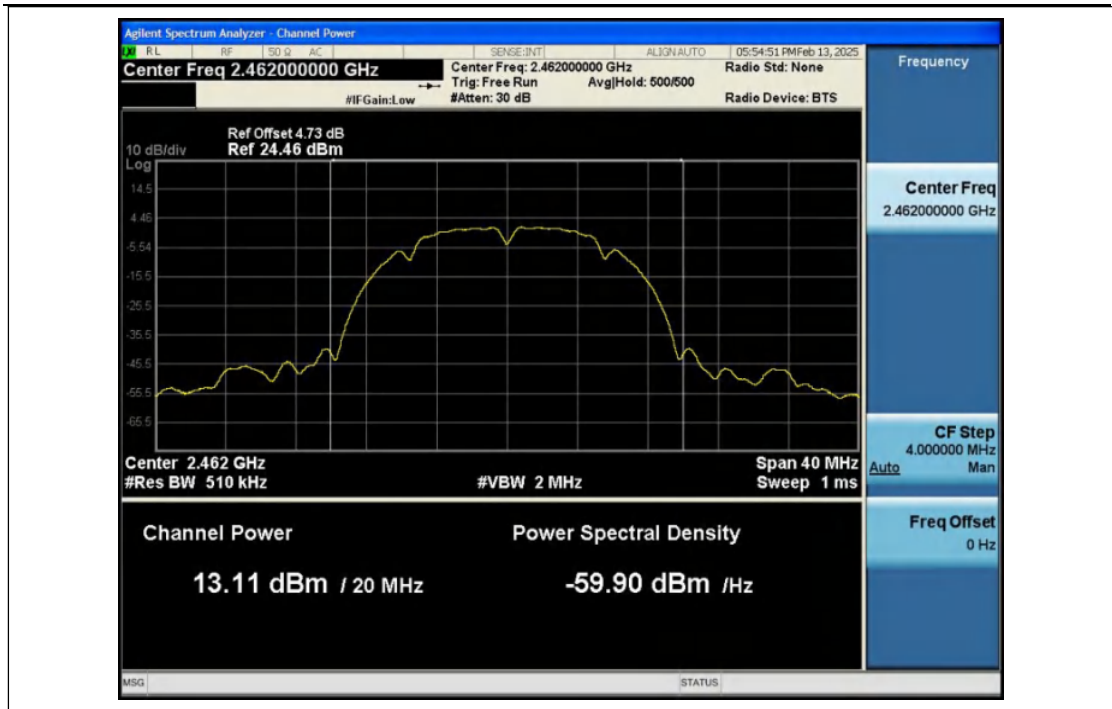


MAX__Output_Power_NVNT_ANT1_802_11b_2462

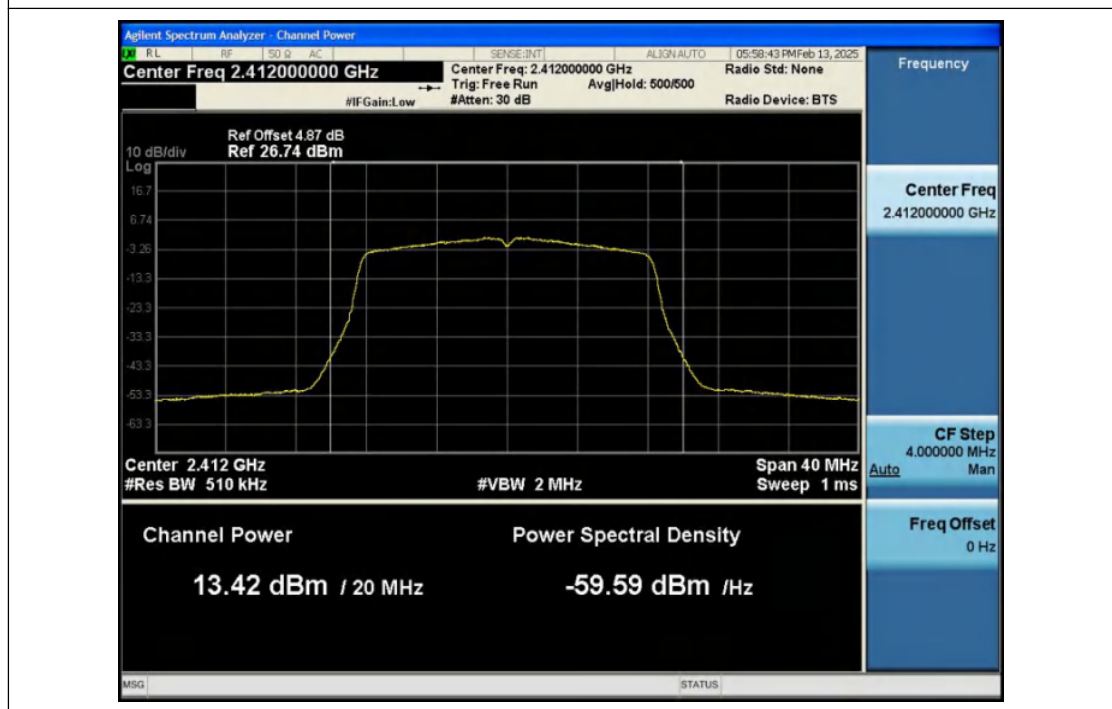
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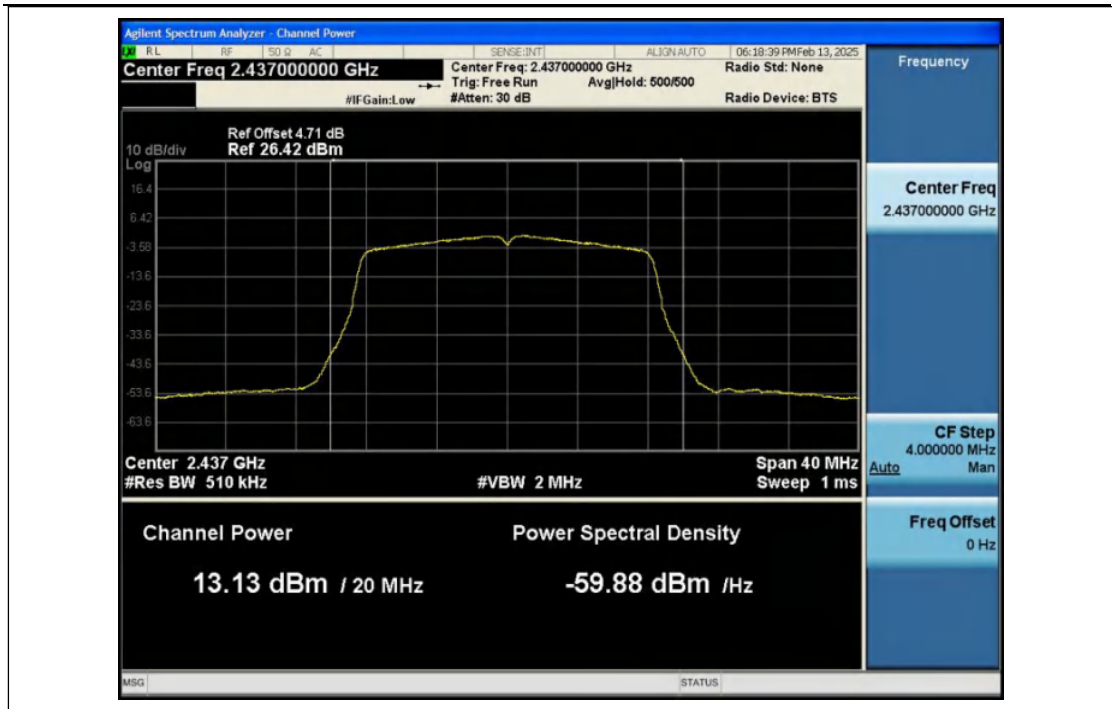
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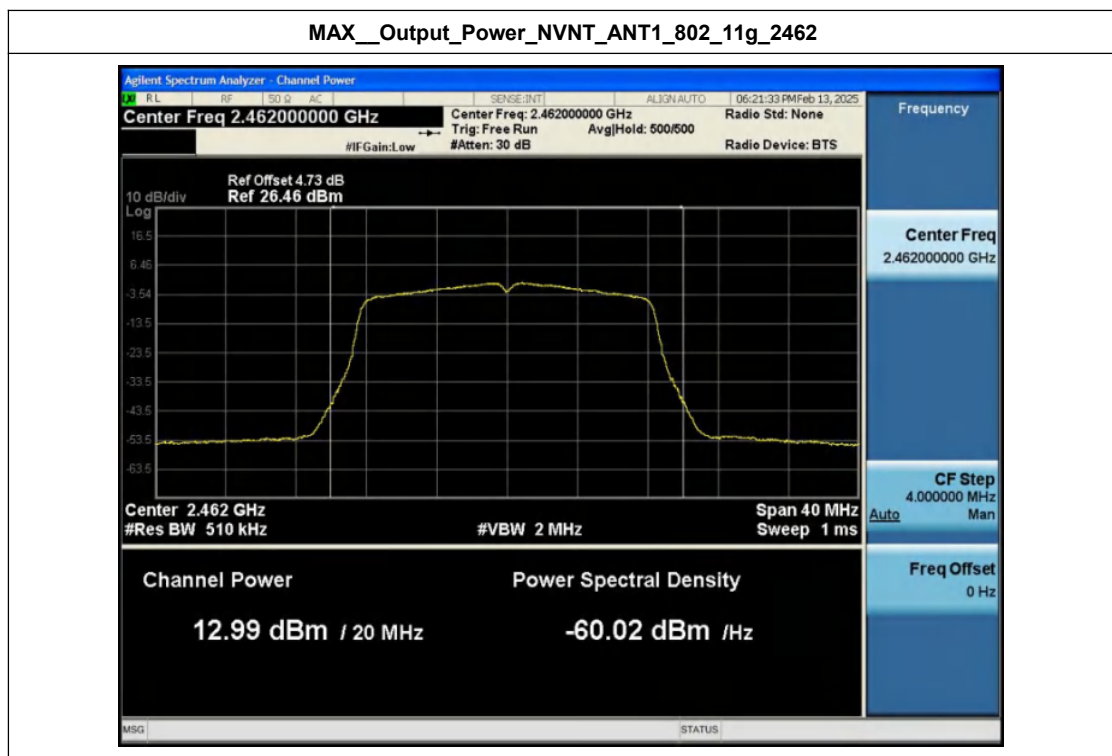
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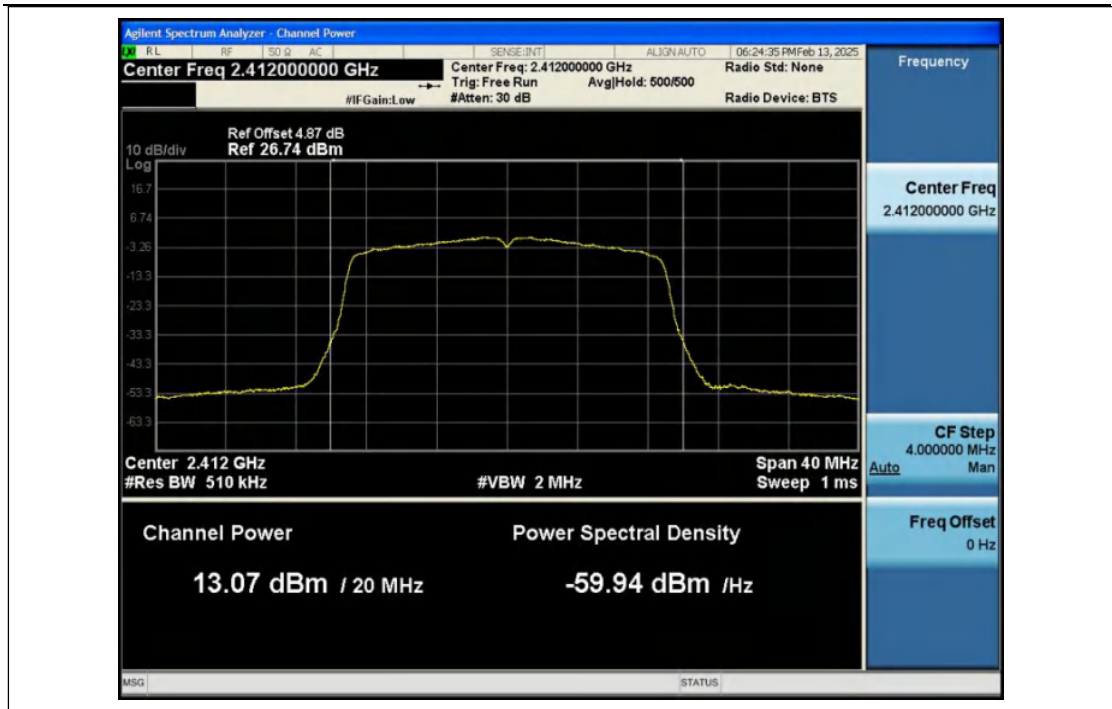
MAX__Output_Power_NVNT_ANT1_802_11g_2437



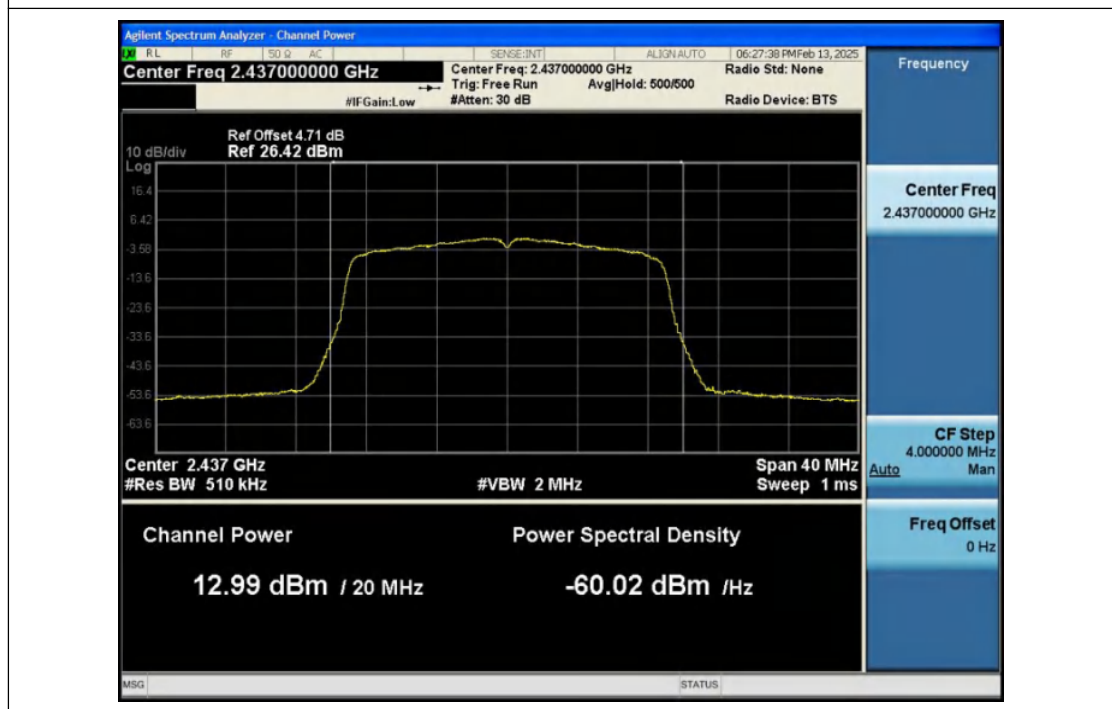
MAX__Output_Power_NVNT_ANT1_802_11g_2462



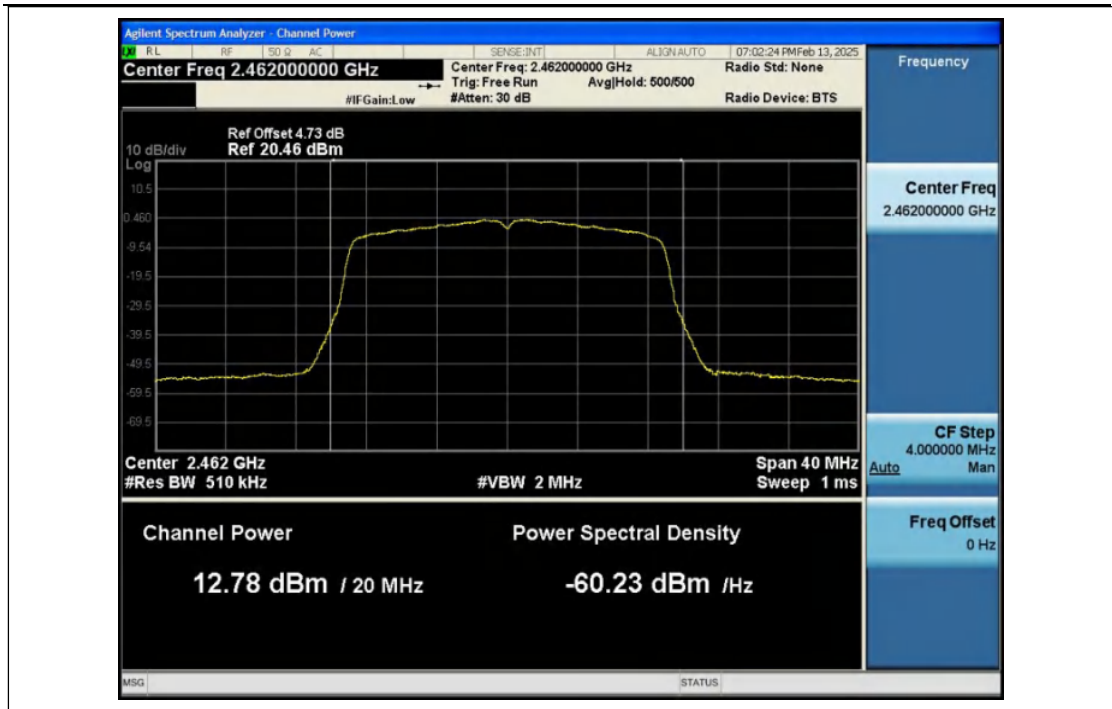
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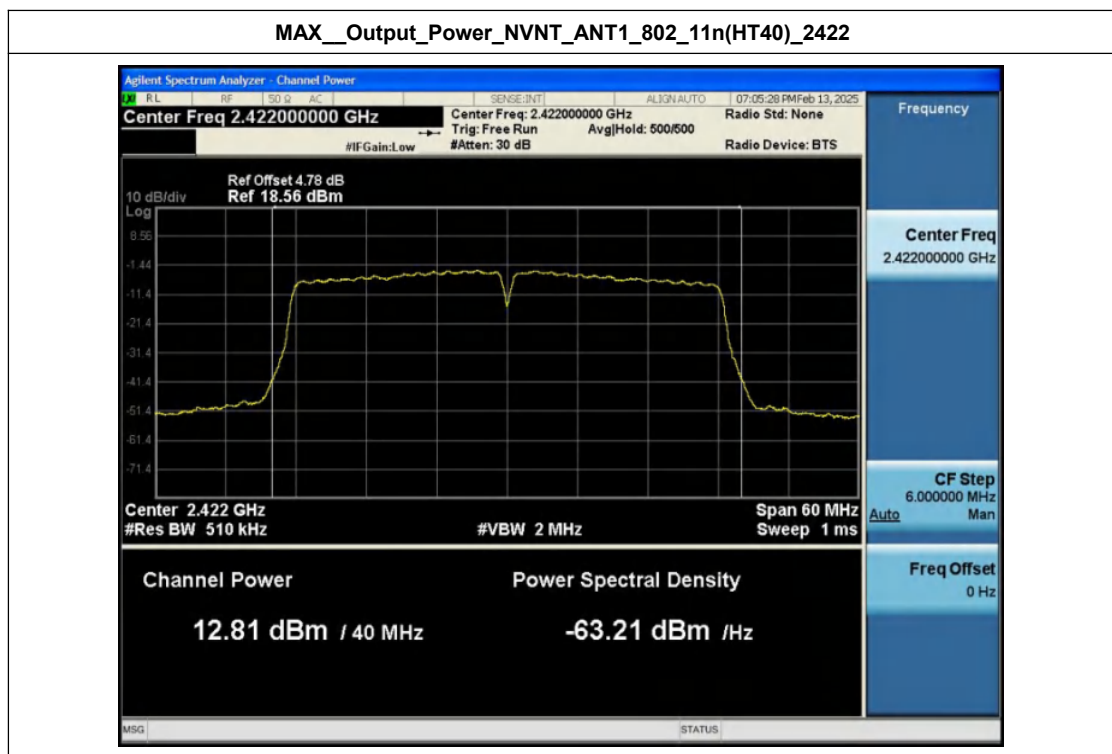
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MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2462



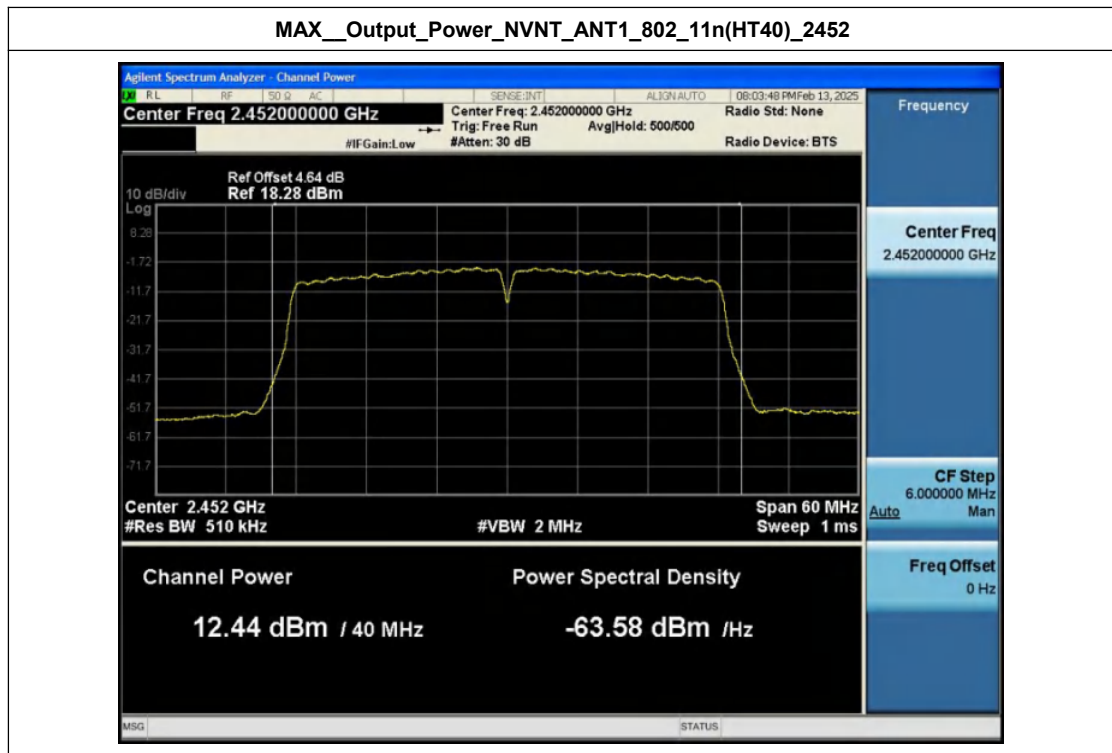
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MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2437



MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2452



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	-0.40	0.00	-10.00	-10.40	8	Pass
NVNT	ANT1	802.11b	2437.00	-0.80	0.00	-10.00	-10.80	8	Pass
NVNT	ANT1	802.11b	2462.00	-1.17	0.00	-10.00	-11.16	8	Pass
NVNT	ANT1	802.11g	2412.00	-0.75	0.00	-10.00	-10.75	8	Pass
NVNT	ANT1	802.11g	2437.00	-1.24	0.00	-10.00	-11.24	8	Pass
NVNT	ANT1	802.11g	2462.00	-1.32	0.00	-10.00	-11.32	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-1.39	0.00	-10.00	-11.39	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-1.70	0.00	-10.00	-11.70	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-1.76	0.00	-10.00	-11.76	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-5.53	0.00	-10.00	-15.53	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-5.41	0.00	-10.00	-15.41	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-6.11	0.00	-10.00	-16.11	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_2412



Power_Spectral_Density_NVNT_ANT1_802_11b_2437



Power_Spectral_Density_NVNT_ANT1_802_11b_2462

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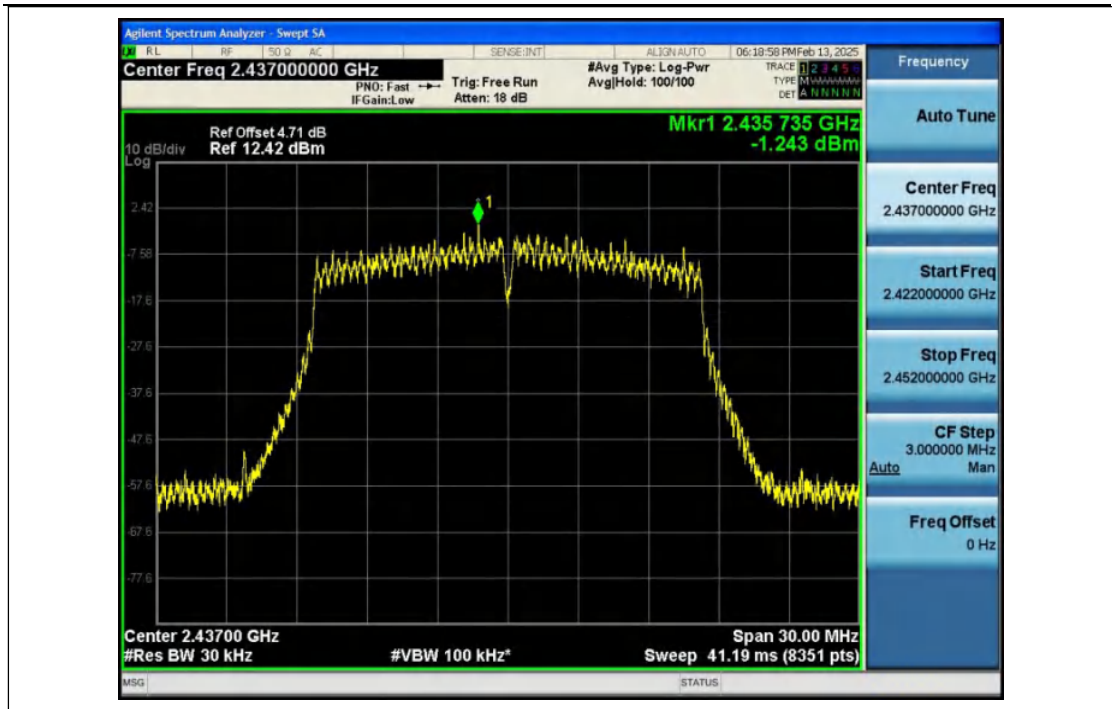
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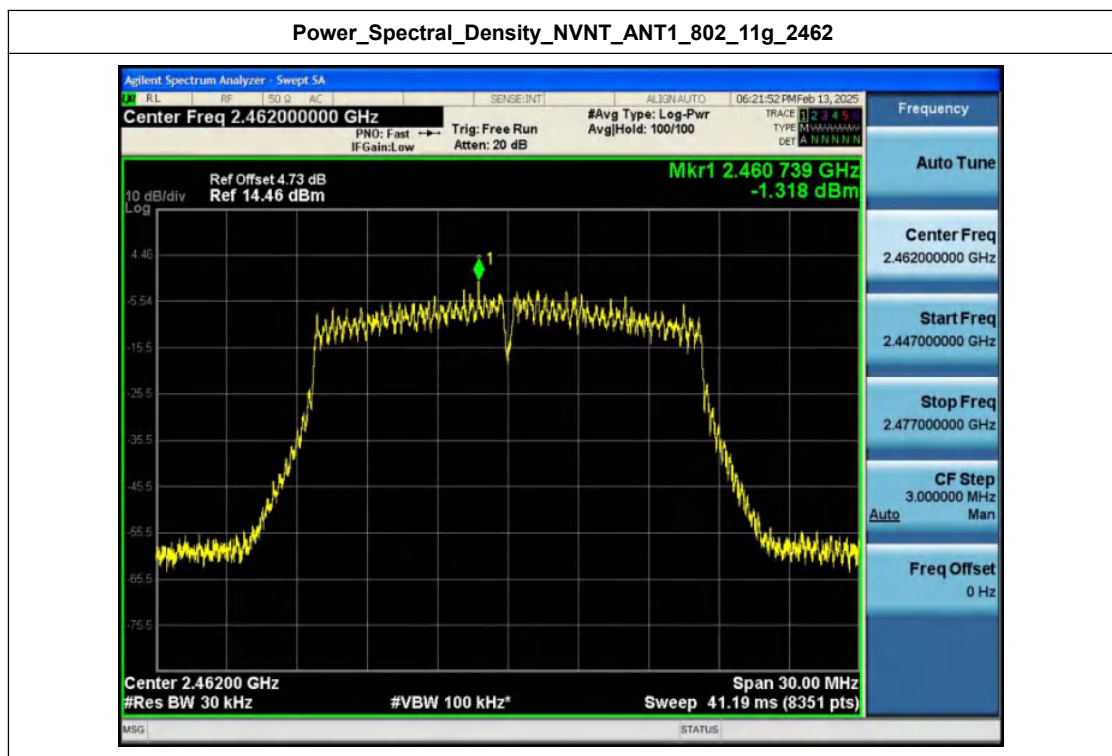
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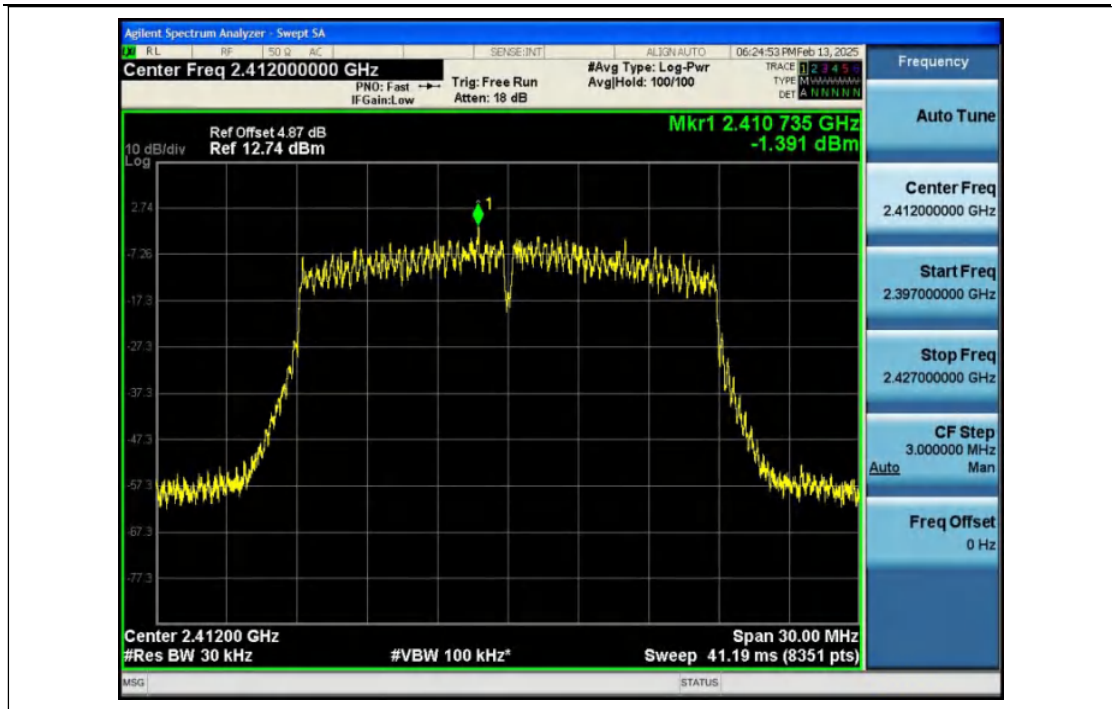
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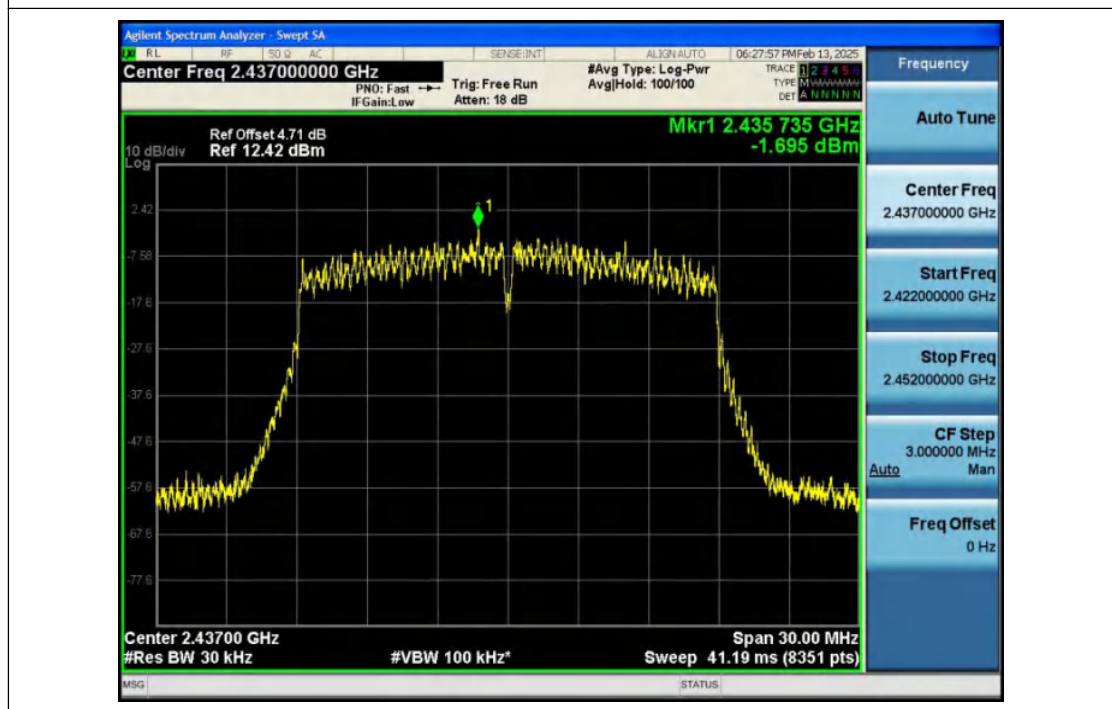
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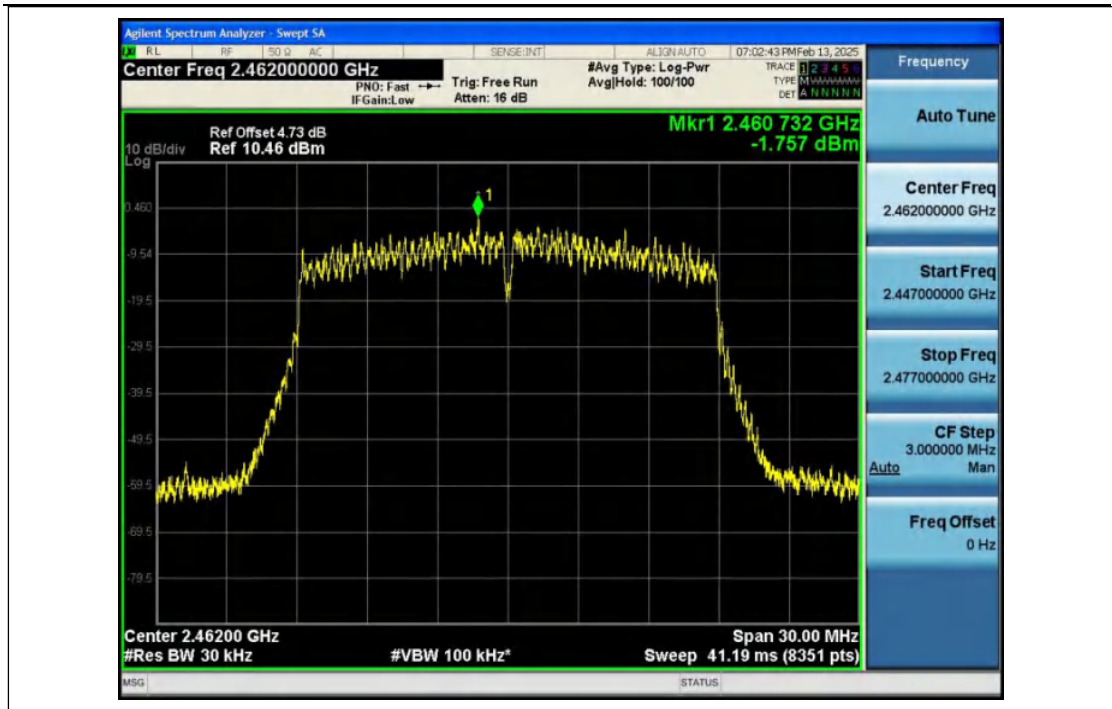
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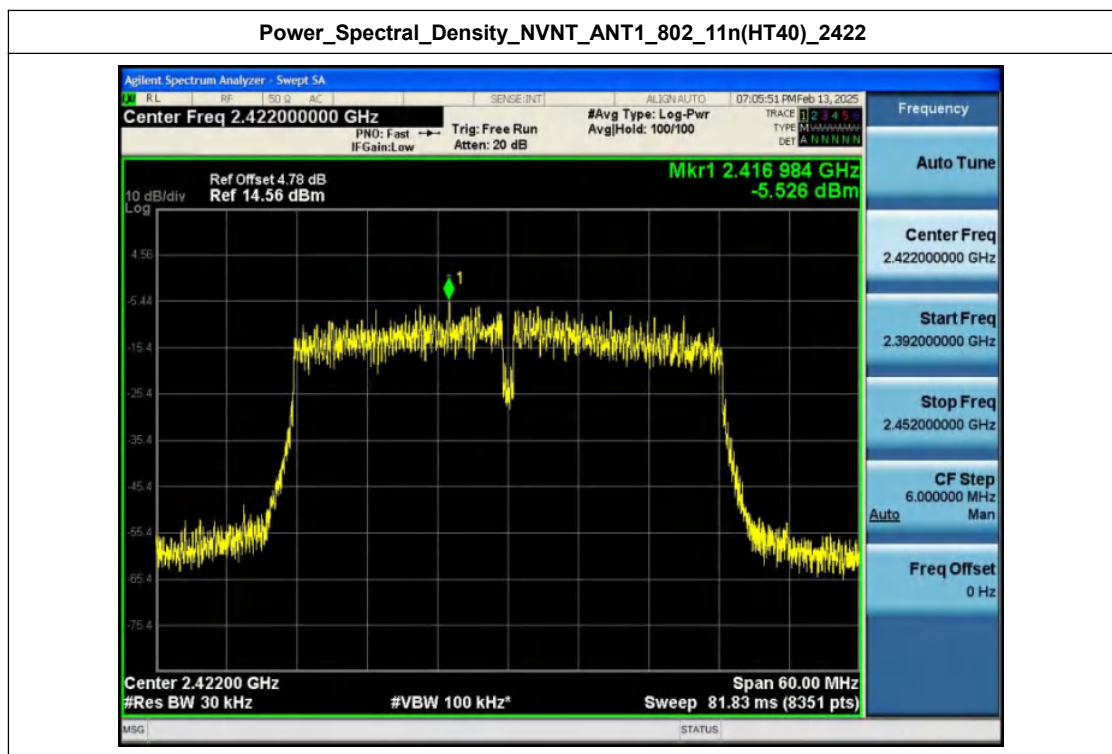
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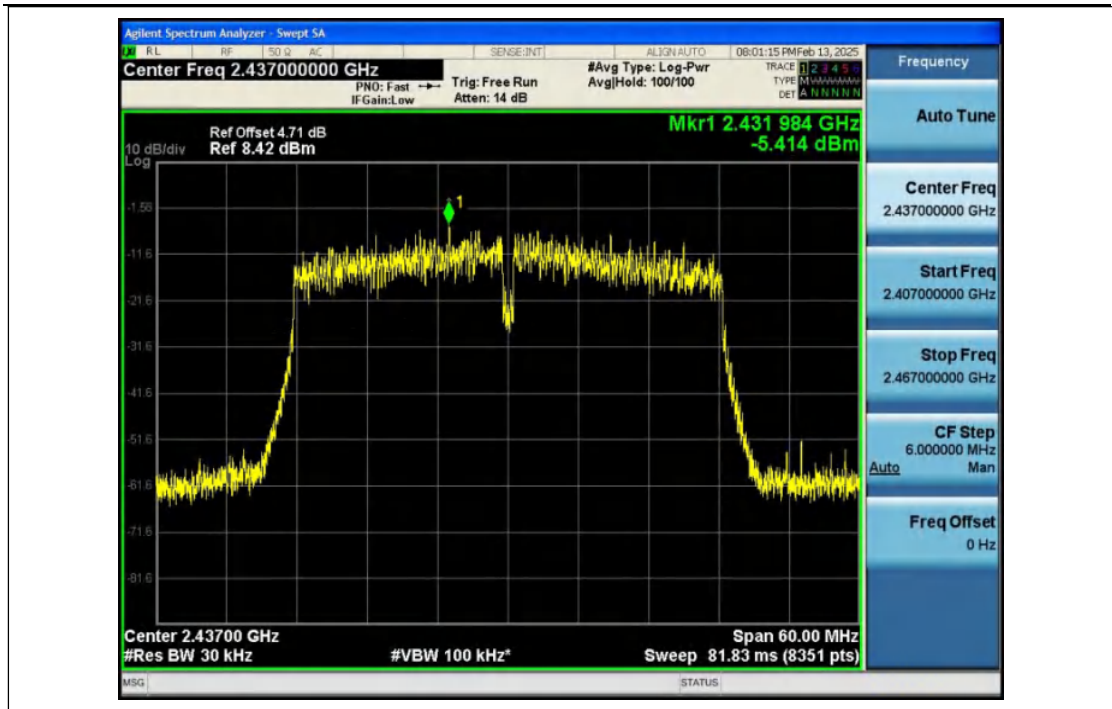
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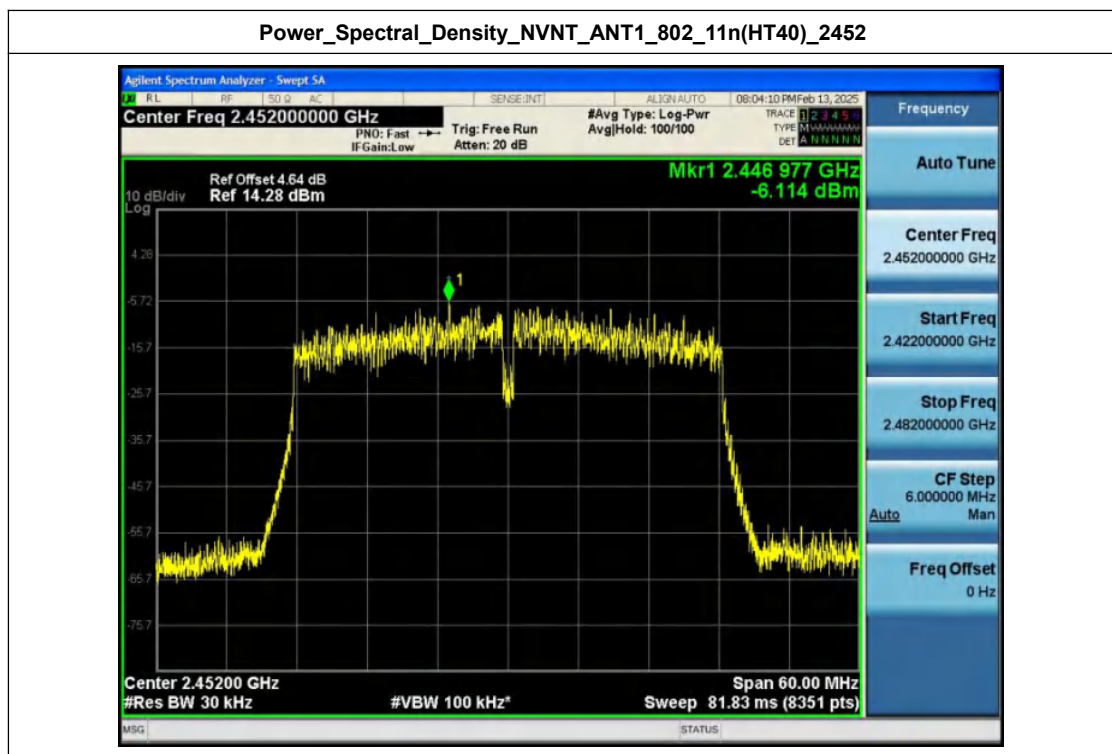
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Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2437



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2452



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	3.739	-41.527	-26.261	Pass
NVNT	ANT1	802.11b	2462.00	2483.680	3.210	-52.772	-26.790	Pass
NVNT	ANT1	802.11g	2412.00	2395.792	3.999	-47.484	-26.001	Pass
NVNT	ANT1	802.11g	2462.00	2483.824	3.592	-51.424	-26.408	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2397.584	3.650	-47.606	-26.350	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2490.784	3.585	-51.594	-26.415	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.496	0.374	-43.927	-29.626	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2485.720	0.149	-46.124	-29.851	Pass

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Tel:(86)0755-26066440 Email:service@anbotek.com

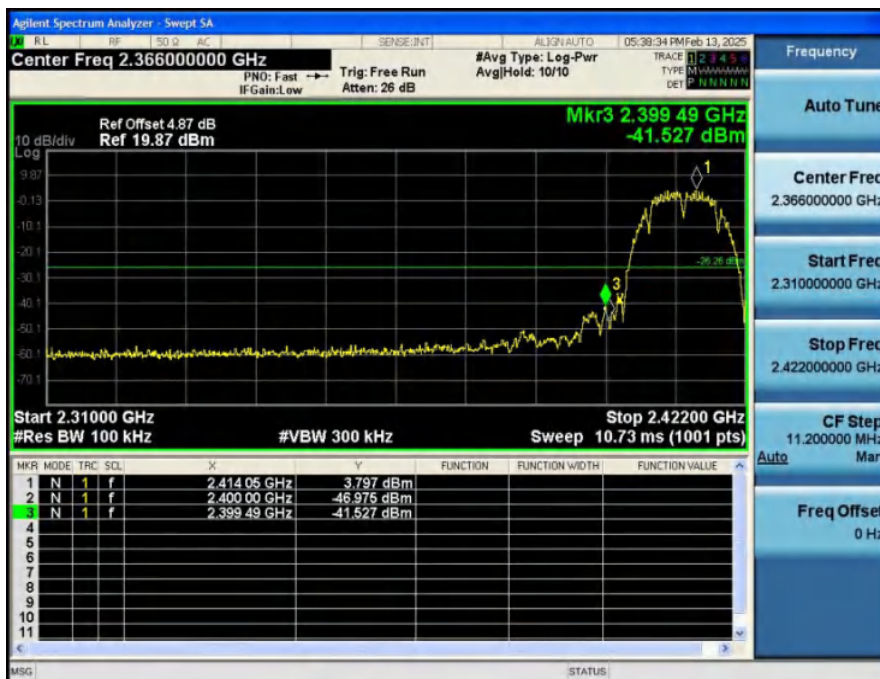


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1_Reference_Level_NVNT_ANT1_802_11b_2412



2_Bandedge_NVNT_ANT1_802_11b_2412



1_Reference_Level_NVNT_ANT1_802_11b_2462

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2_Bandedge_NVNT_ANT1_802_11b_2462



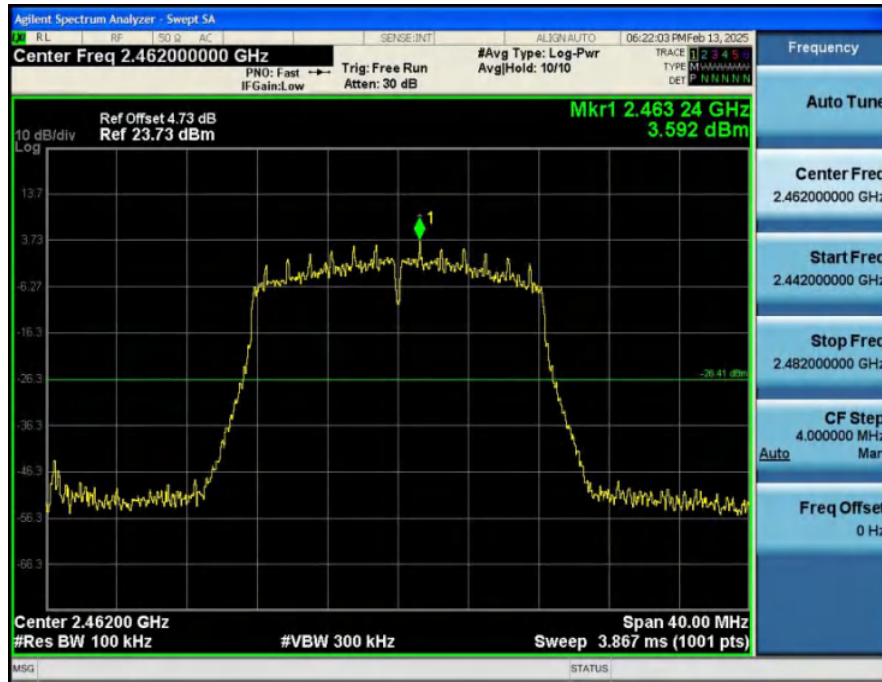
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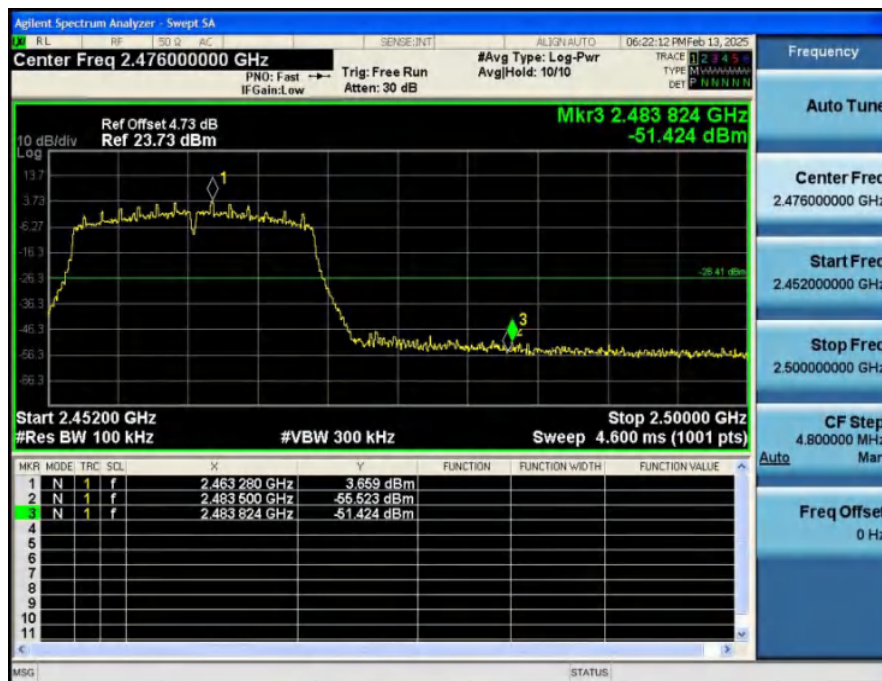
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1_Reference_Level_NVNT_ANT1_802_11g_2462



2_Bandedge_NVNT_ANT1_802_11g_2462



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412

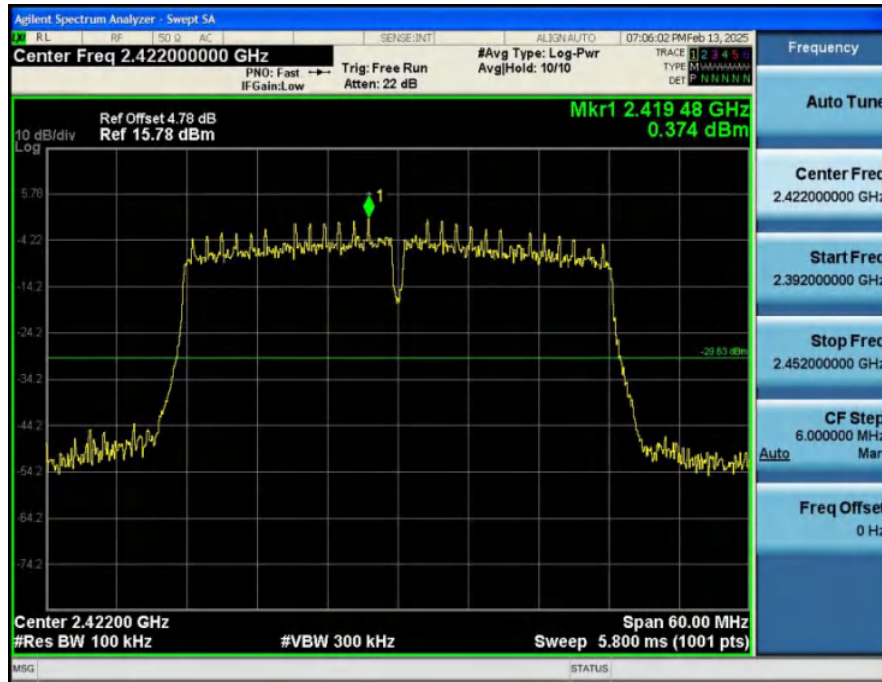




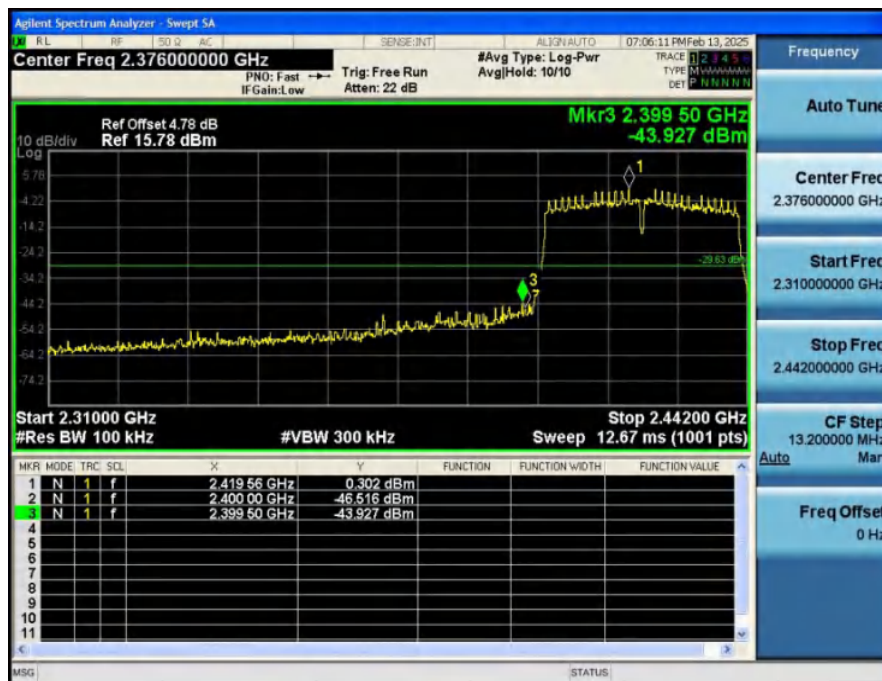
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1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422



2_Bandedge_NVNT_ANT1_802_11n(HT40)_2422



1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452



2_Bandedge_NVNT_ANT1_802_11n(HT40)_2452



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	24830.204	3.739	-46.472	-26.261	Pass
NVNT	ANT1	802.11b	2437.00	24787.755	3.314	-44.912	-26.686	Pass
NVNT	ANT1	802.11b	2462.00	24315.822	3.210	-44.809	-26.790	Pass
NVNT	ANT1	802.11g	2412.00	24785.258	3.999	-44.357	-26.001	Pass
NVNT	ANT1	802.11g	2437.00	24777.767	3.764	-45.203	-26.236	Pass
NVNT	ANT1	802.11g	2462.00	24370.756	3.592	-45.356	-26.408	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24845.186	3.650	-45.044	-26.350	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24762.785	3.576	-44.734	-26.424	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24865.162	3.585	-43.457	-26.415	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24817.719	0.374	-51.246	-29.626	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24835.198	0.456	-51.250	-29.544	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	24947.563	0.149	-47.616	-29.851	Pass

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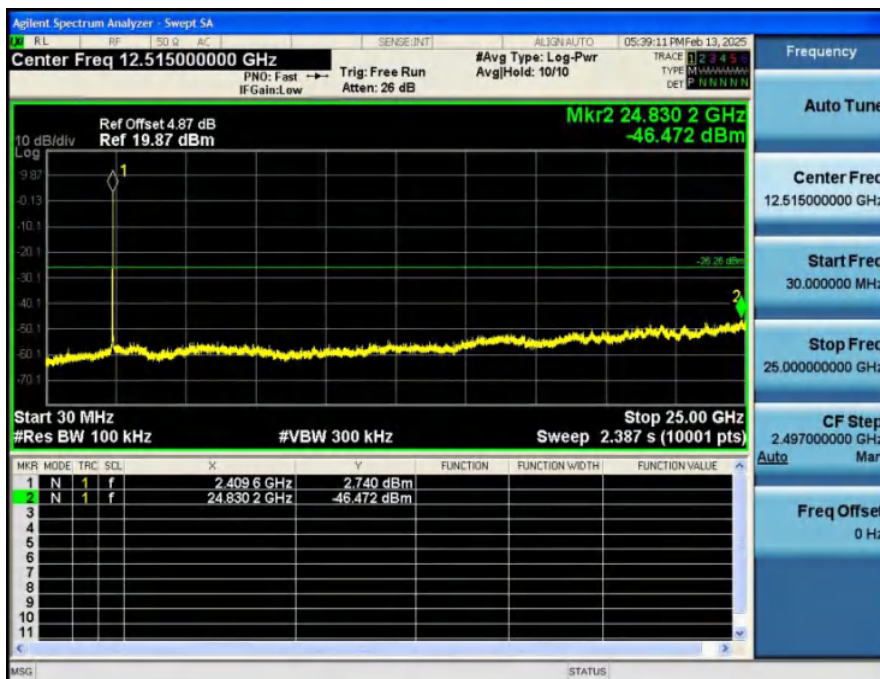


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1_Reference_Level_NVNT_ANT1_802_11b_2412



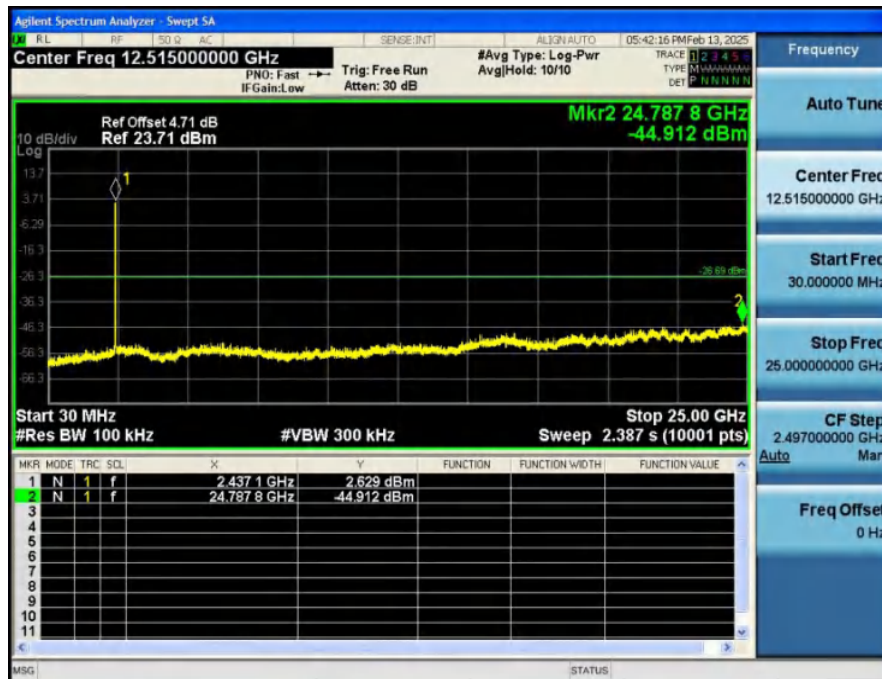
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1_Reference_Level_NVNT_ANT1_802_11b_2437



2_Spurious_Emission_NVNT_ANT1_802_11b_2437



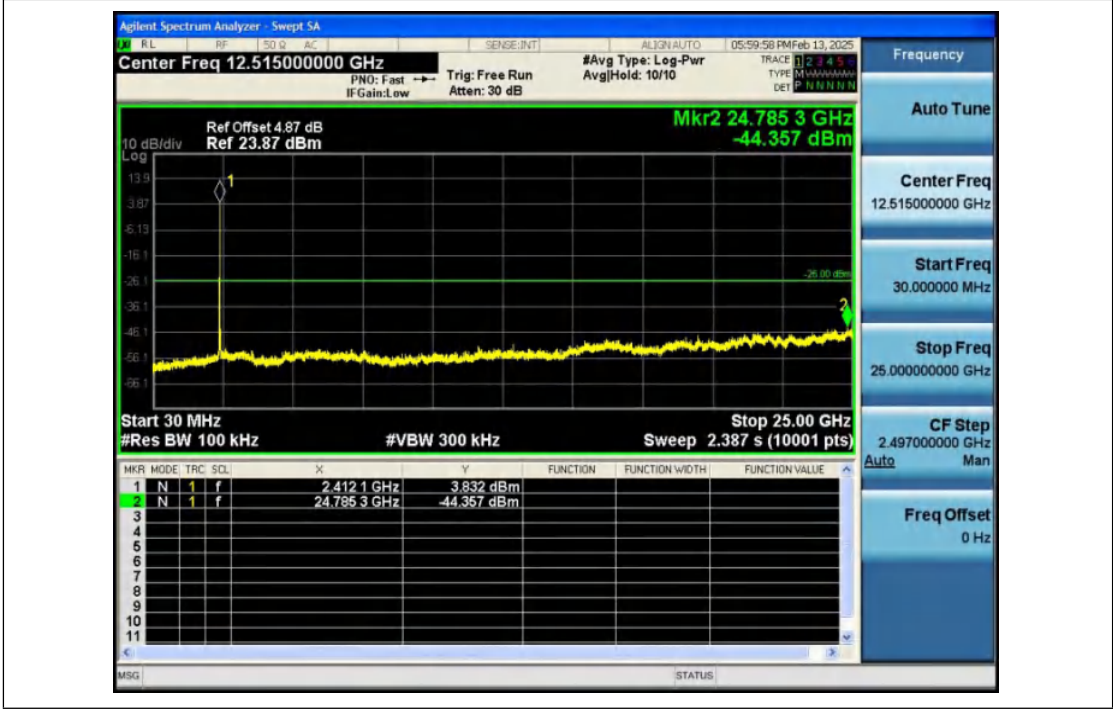
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1_Reference_Level_NVNT_ANT1_802_11g_2412



2_Spurious_Emission_NVNT_ANT1_802_11g_2412



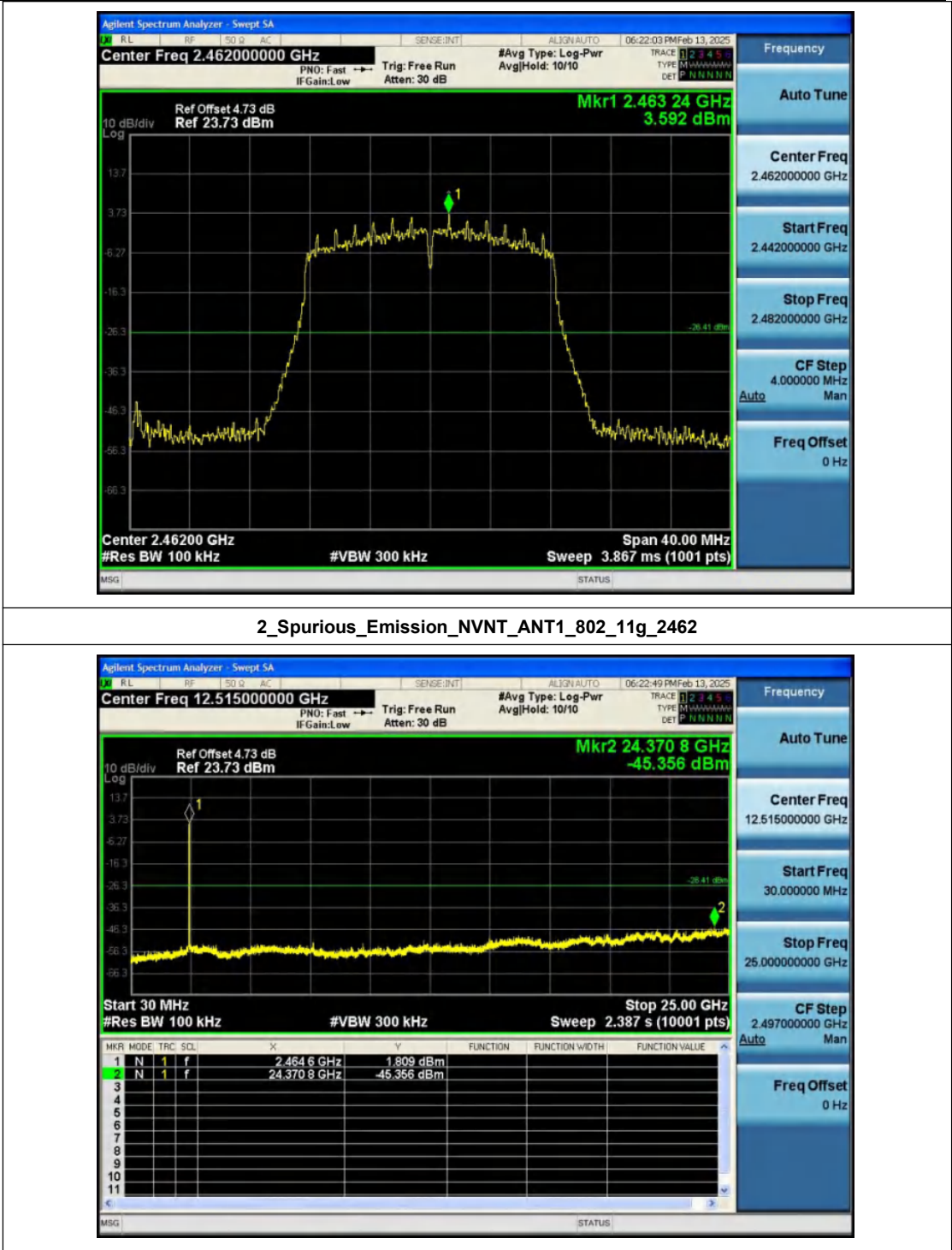
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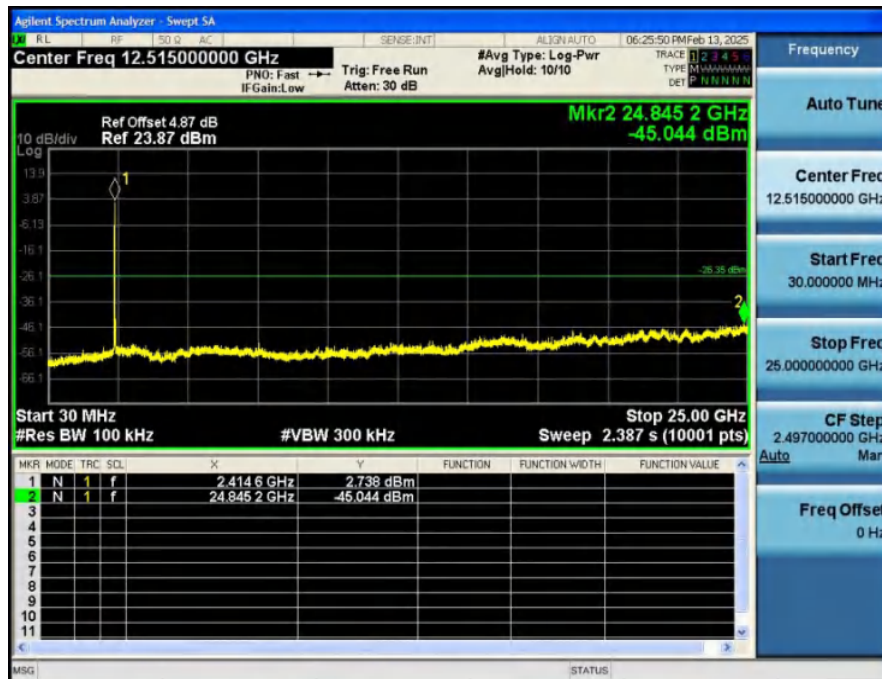
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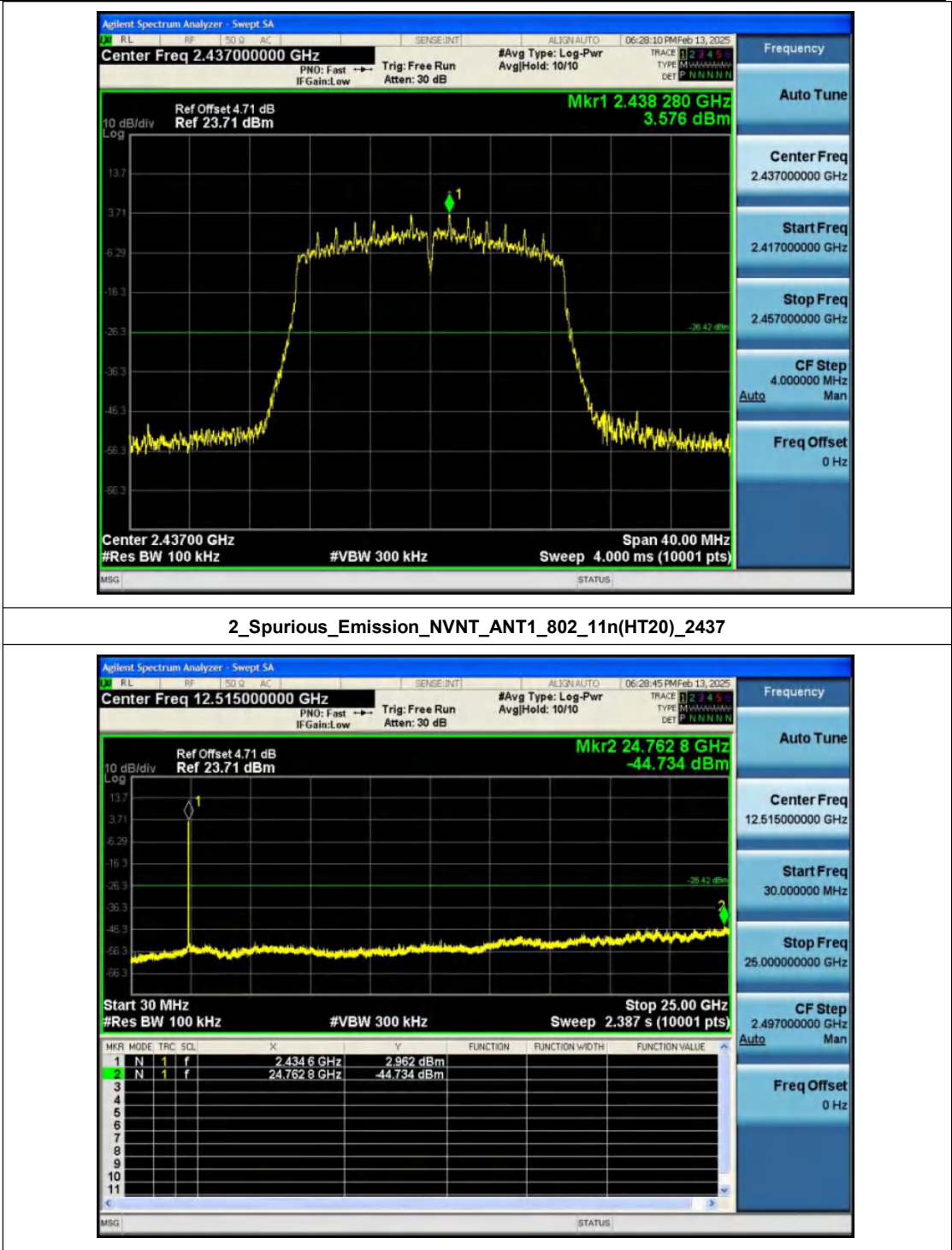
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2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2412



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2437



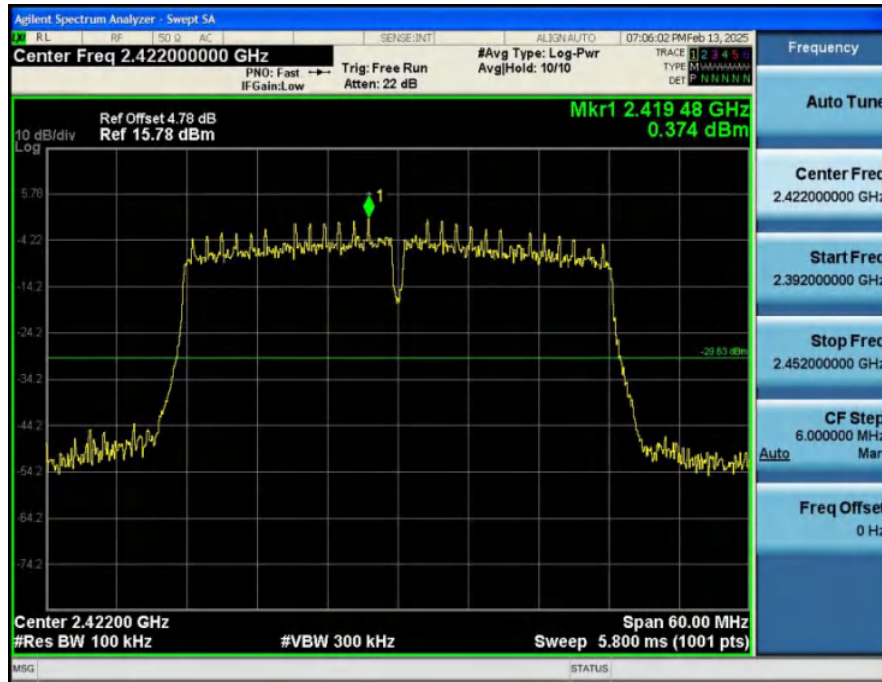
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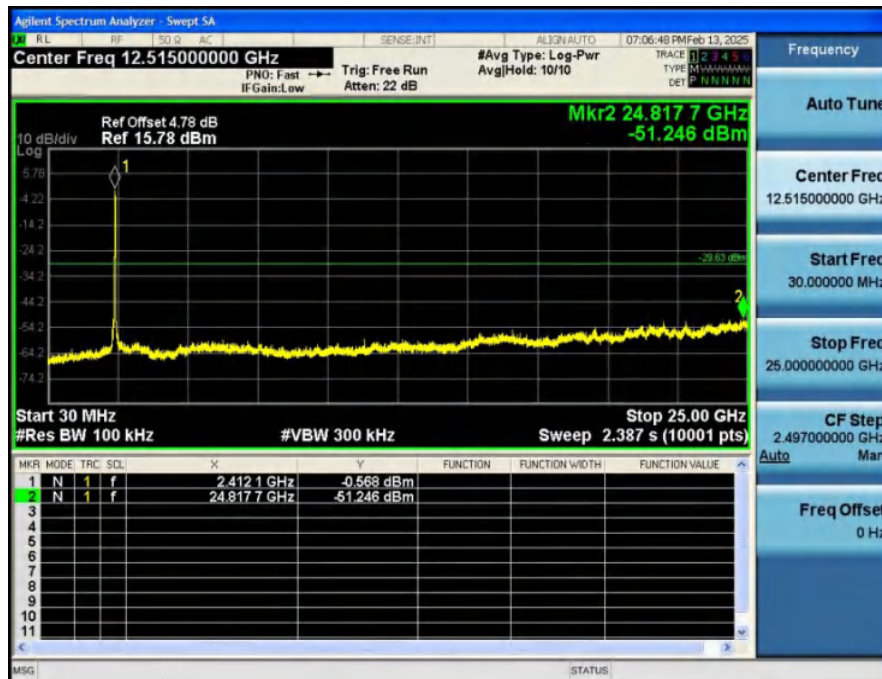
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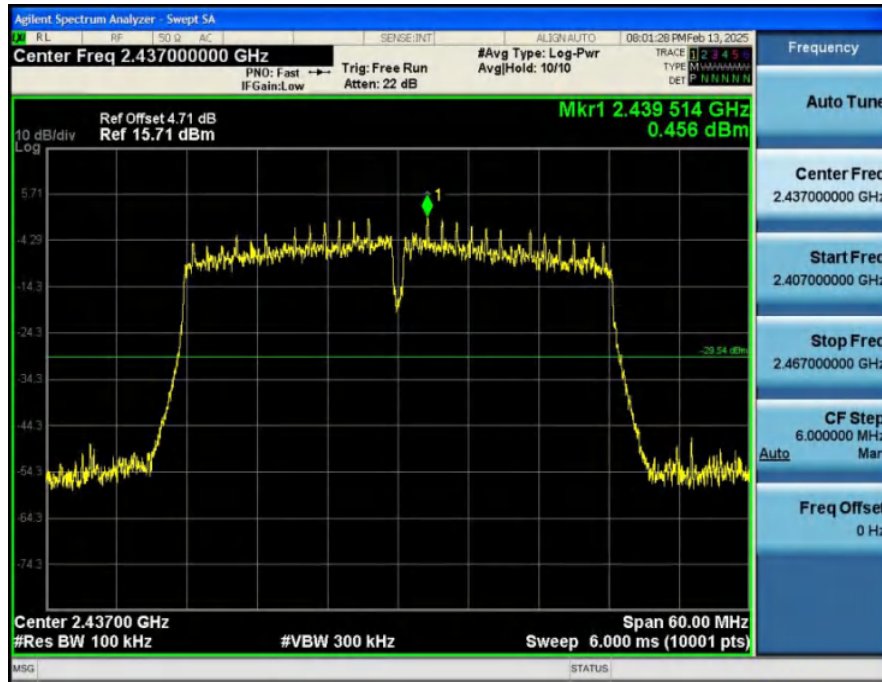
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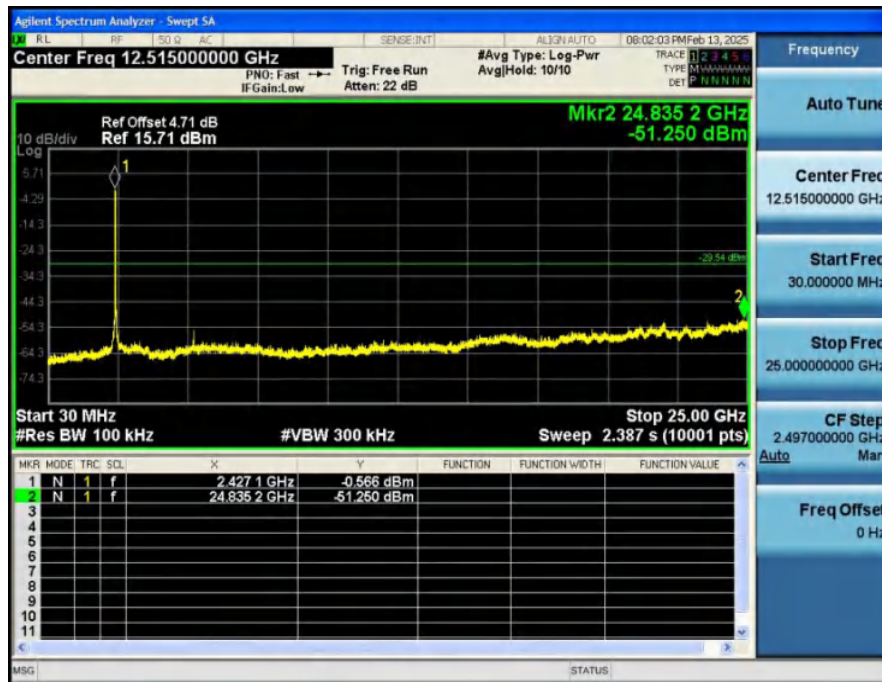
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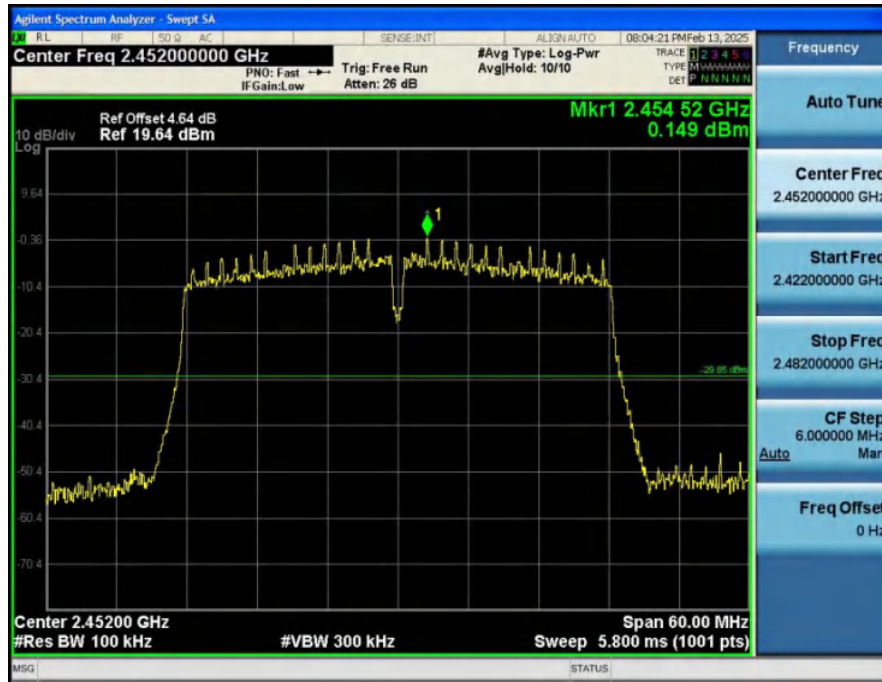
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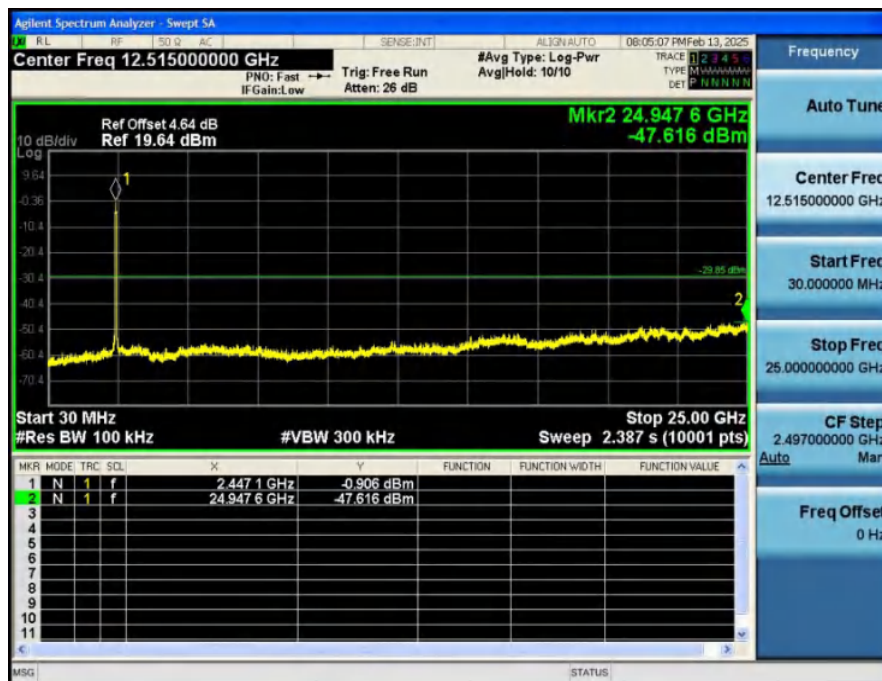
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1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452



2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2452



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