

Appendix Test Data

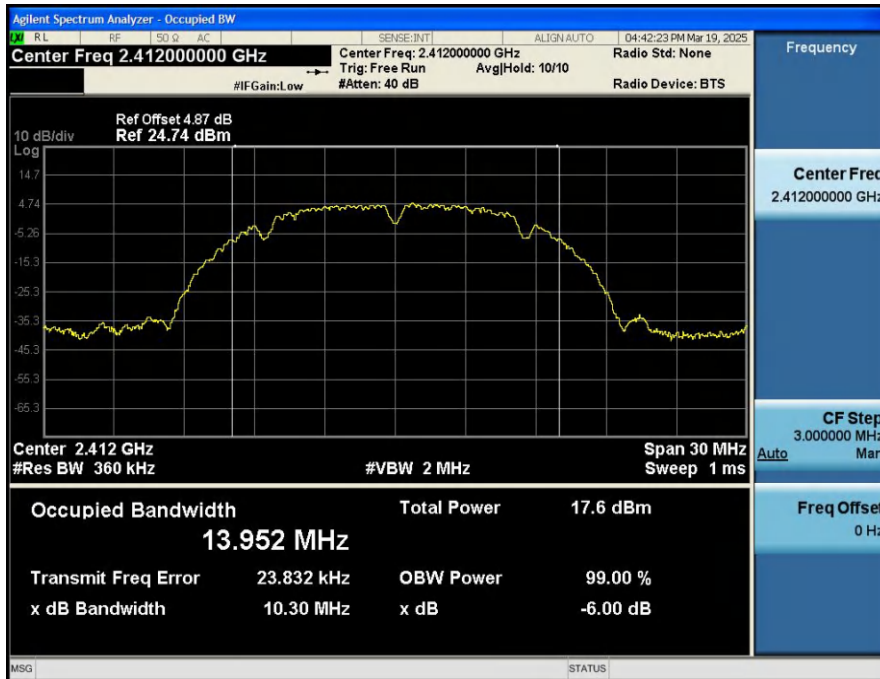
Report No.:	1814C50075312501	Test Sample No.:	1-2-2
Start Test Date:	2025-03-13	Finish Test Date:	2025-03-19
Test Engineer:	<i>Liangfei Yang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	19.7°C	Relative Humidity:	32%
Pressure:	101kPa		

Appendix A: -6dB Bandwidth

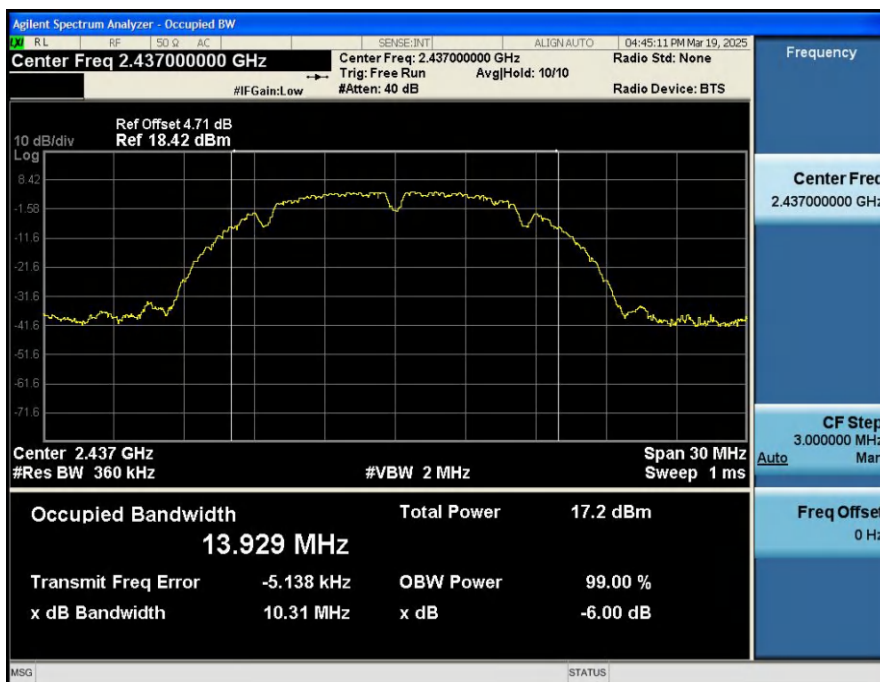
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	10.30	500	Pass
NVNT	ANT1	802.11b	2437.00	10.31	500	Pass
NVNT	ANT1	802.11b	2462.00	10.29	500	Pass
NVNT	ANT1	802.11g	2412.00	15.27	500	Pass
NVNT	ANT1	802.11g	2437.00	15.15	500	Pass
NVNT	ANT1	802.11g	2462.00	14.94	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	16.04	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	16.04	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	16.03	500	Pass



-6dB_Bandwidth_NVNT_ANT1_802_11b_2412



-6dB_Bandwidth_NVNT_ANT1_802_11b_2437



-6dB_Bandwidth_NVNT_ANT1_802_11b_2462

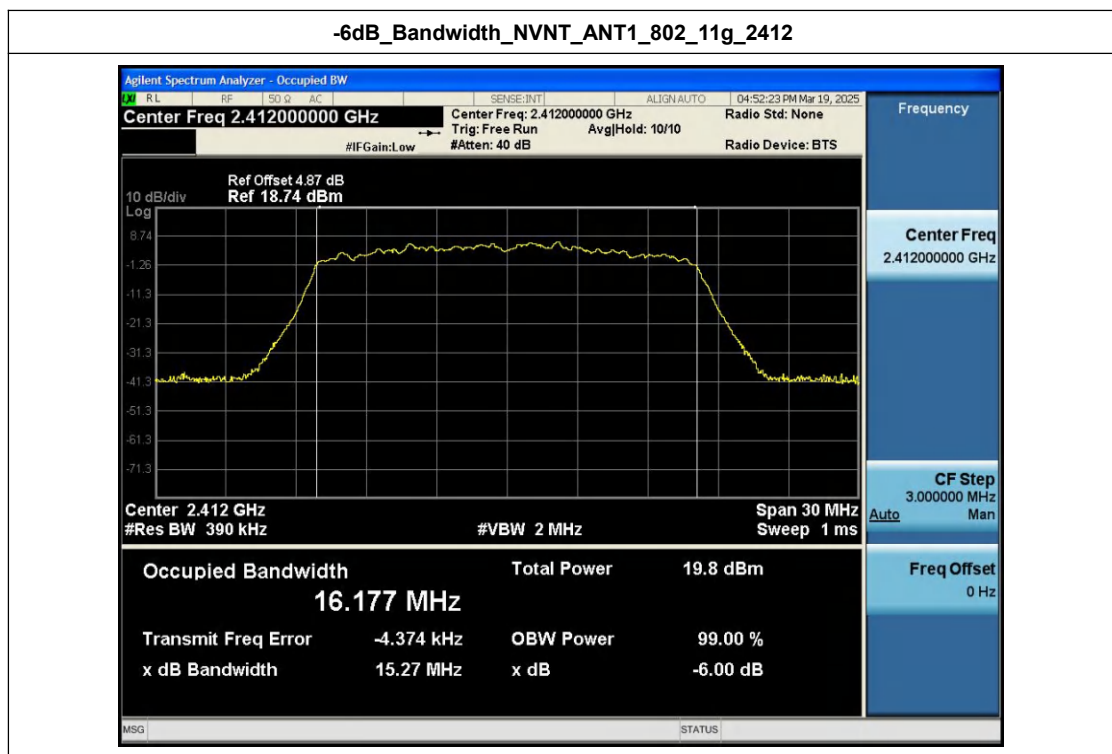
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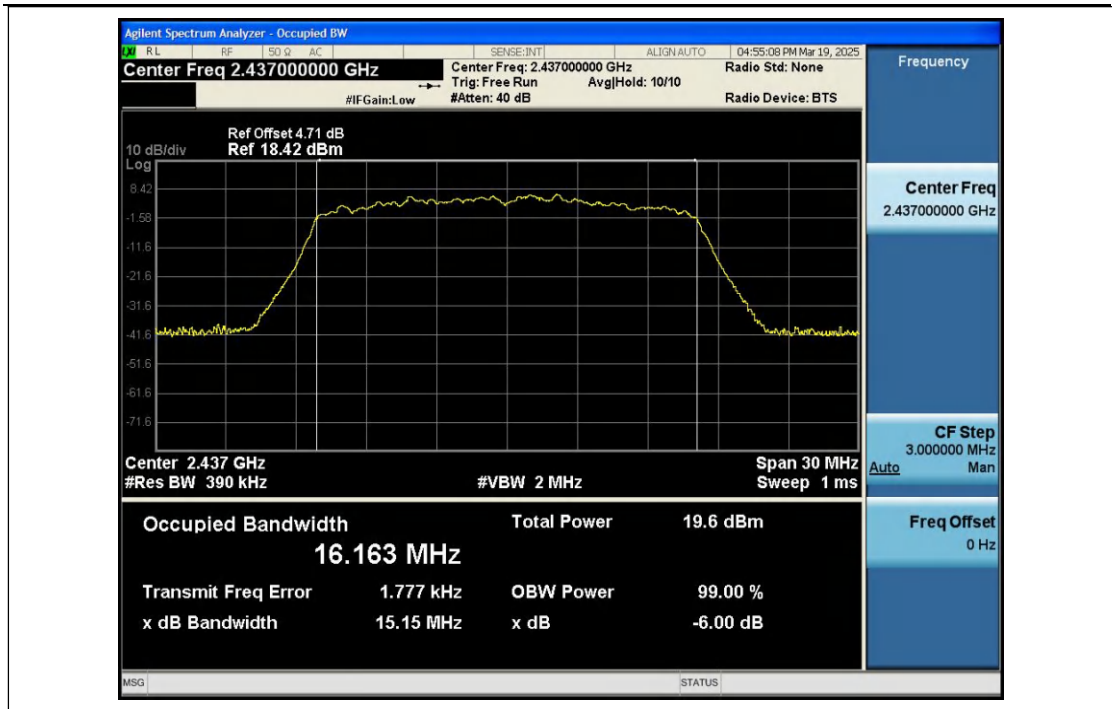
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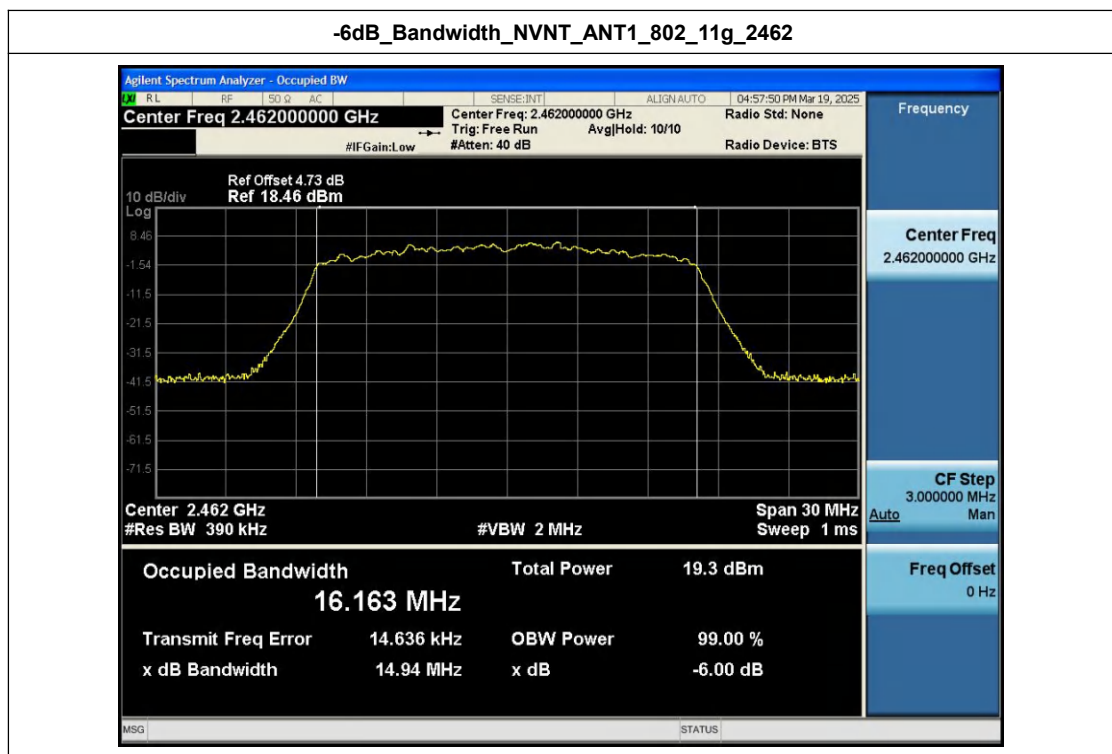
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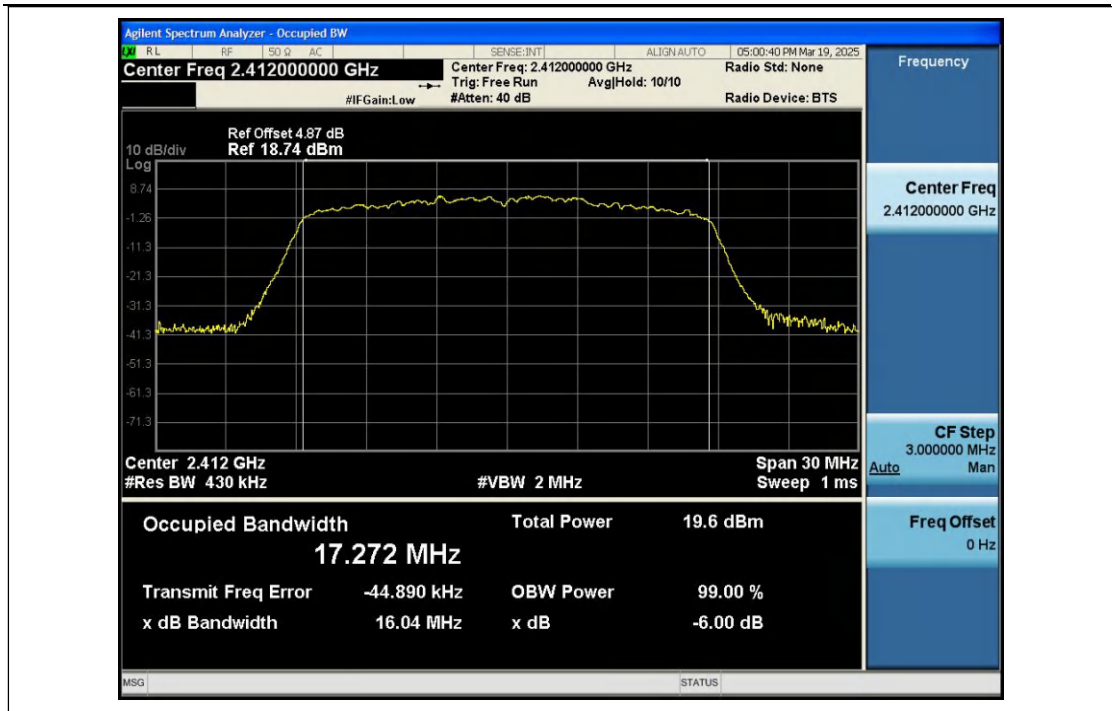
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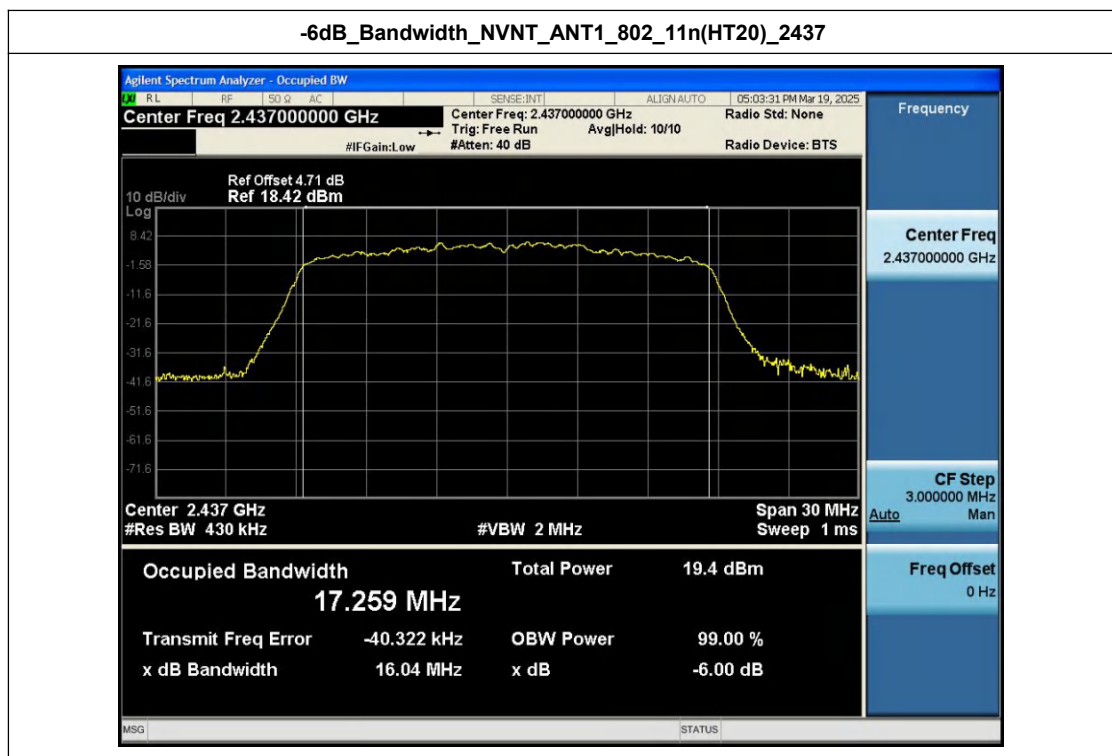
-6dB_Bandwidth_NVNT_ANT1_802_11g_2462



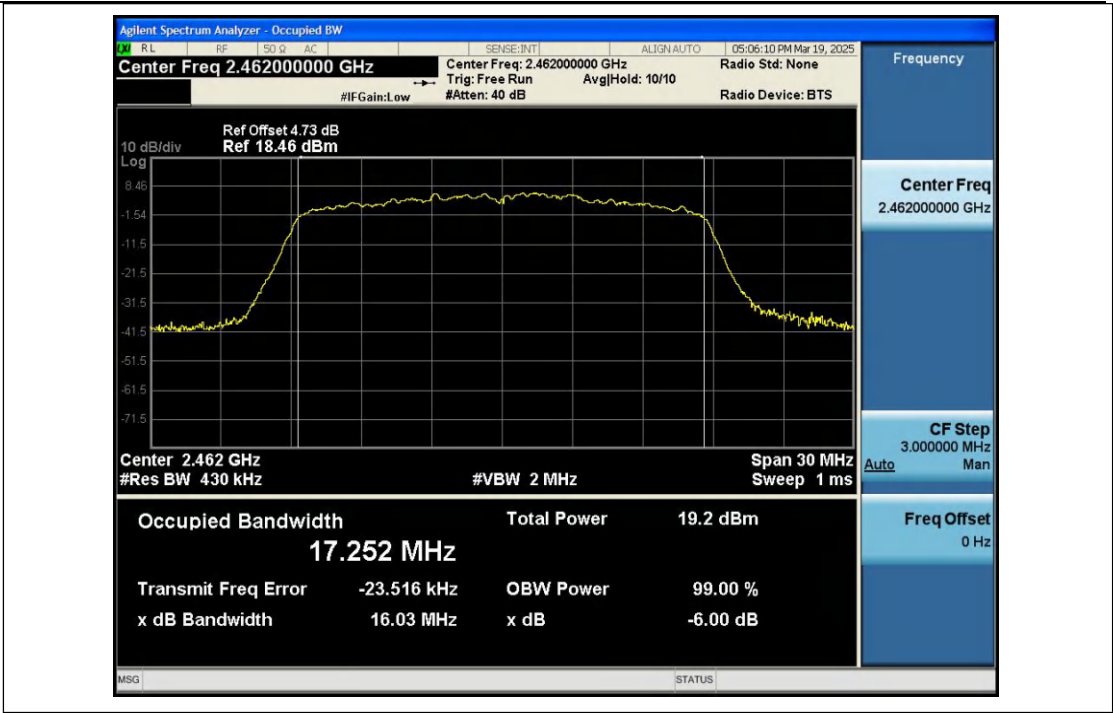
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



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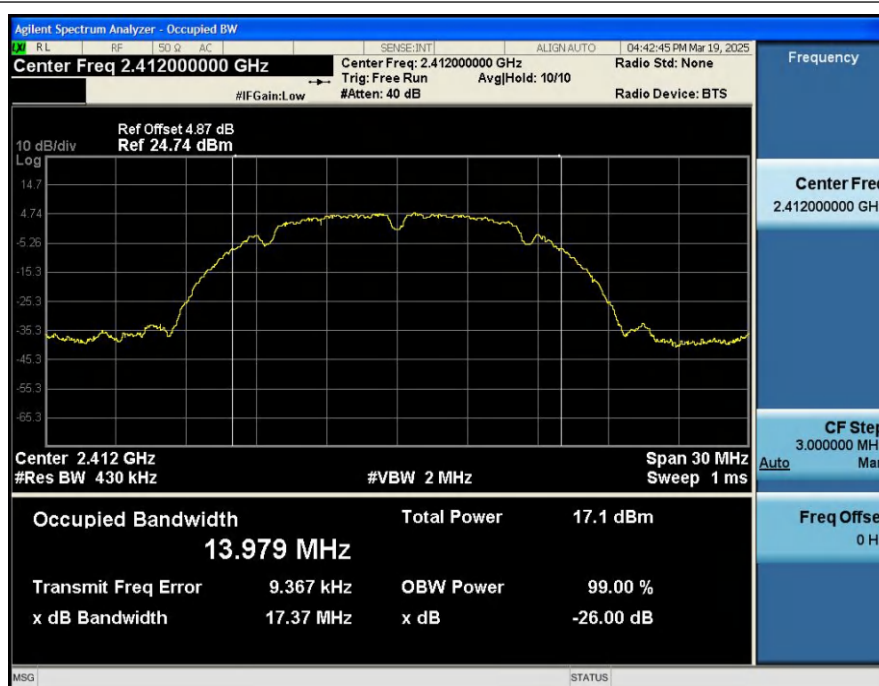
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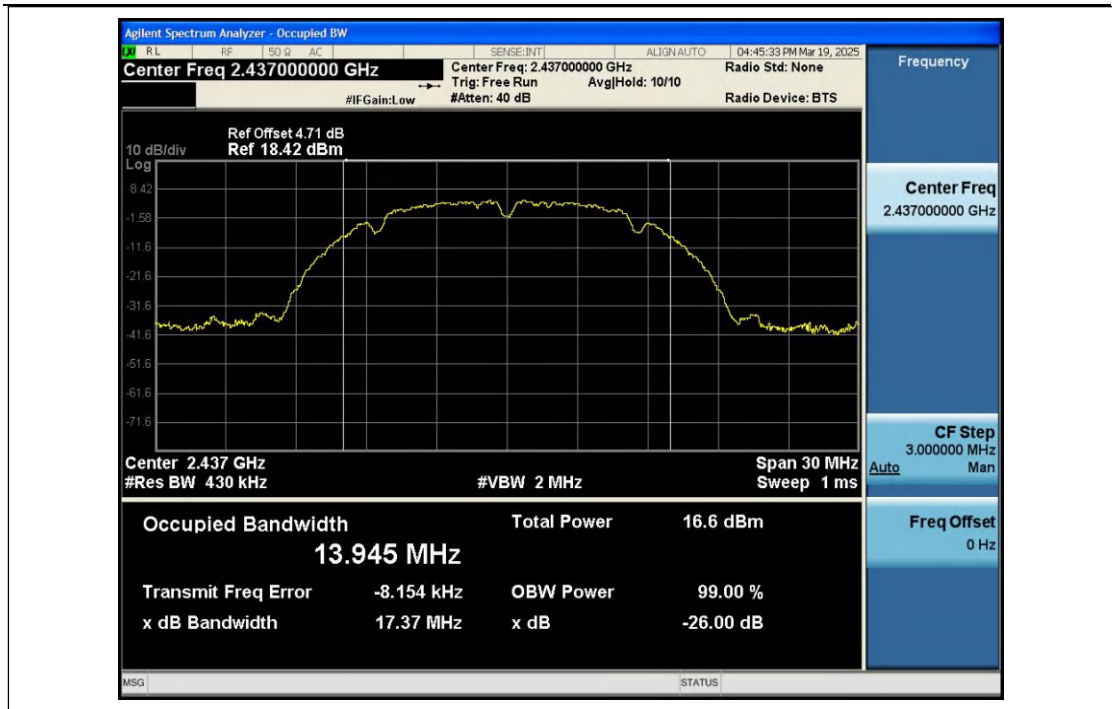
Appendix B: 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%BW(MHz)
NVNT	ANT1	802.11b	2412.00	13.979
NVNT	ANT1	802.11b	2437.00	13.945
NVNT	ANT1	802.11b	2462.00	13.927
NVNT	ANT1	802.11g	2412.00	16.186
NVNT	ANT1	802.11g	2437.00	16.188
NVNT	ANT1	802.11g	2462.00	16.180
NVNT	ANT1	802.11n(HT20)	2412.00	17.286
NVNT	ANT1	802.11n(HT20)	2437.00	17.275
NVNT	ANT1	802.11n(HT20)	2462.00	17.269

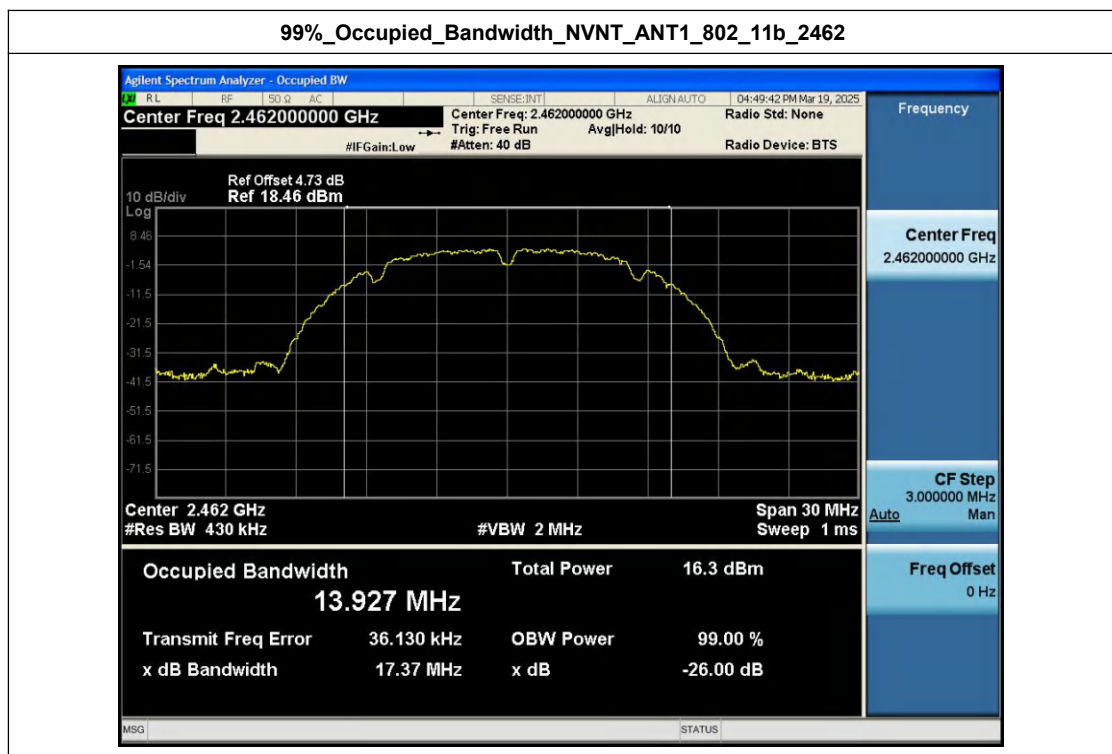
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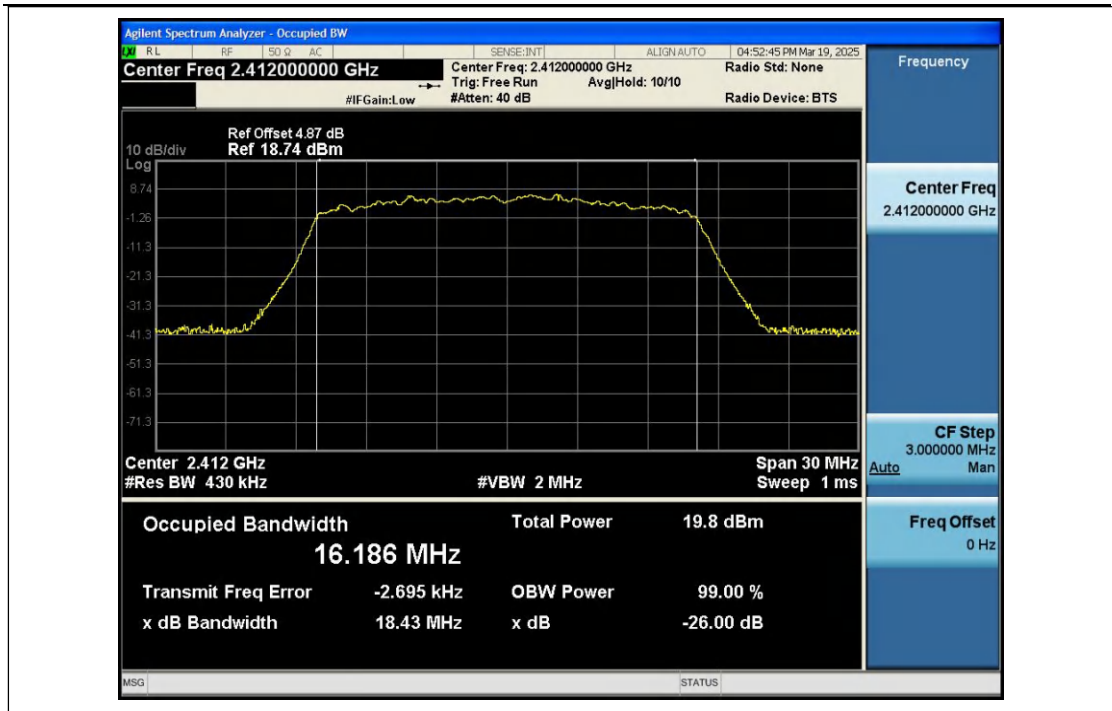
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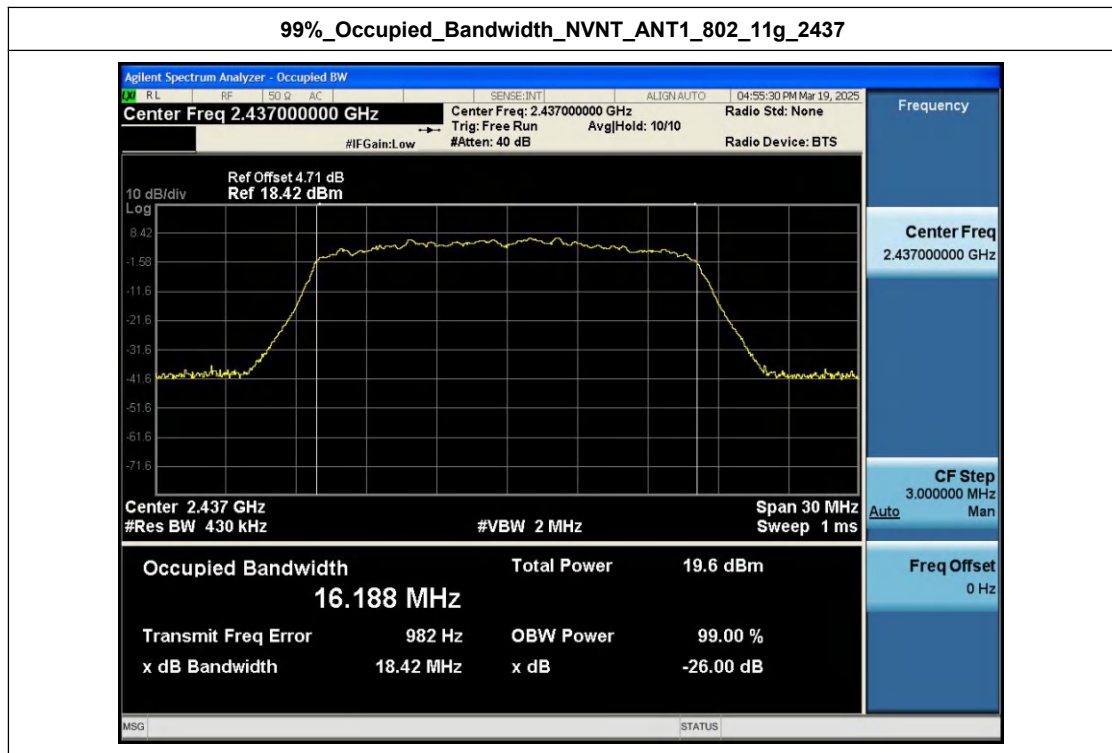
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2462



99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2412

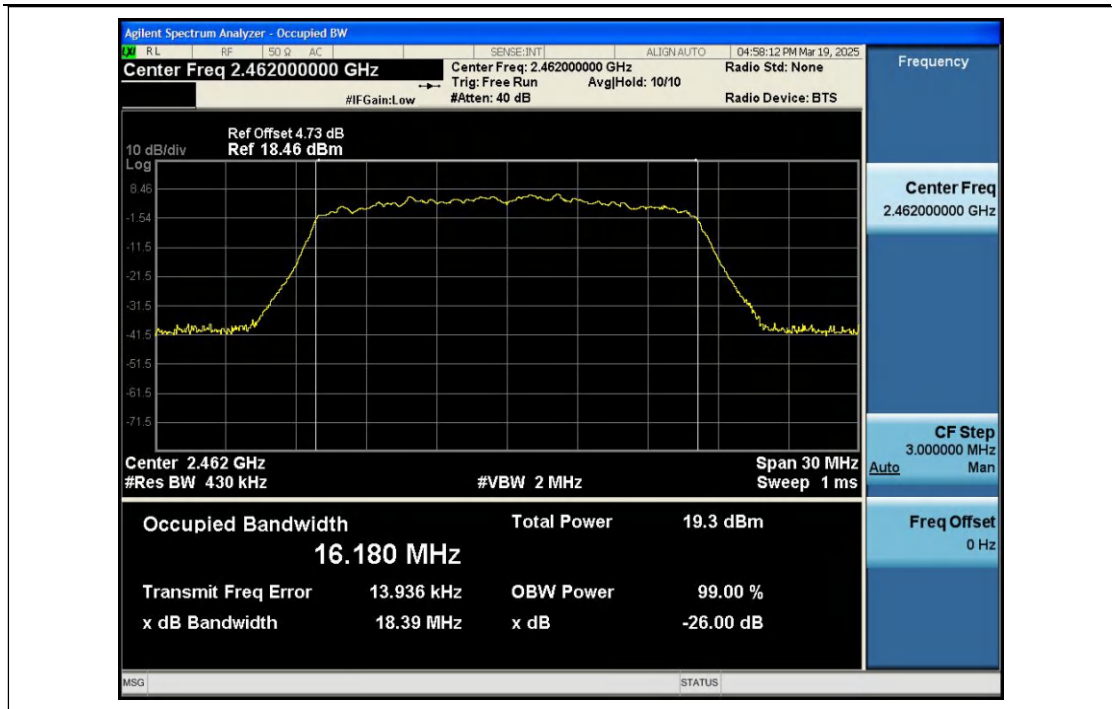


99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2437

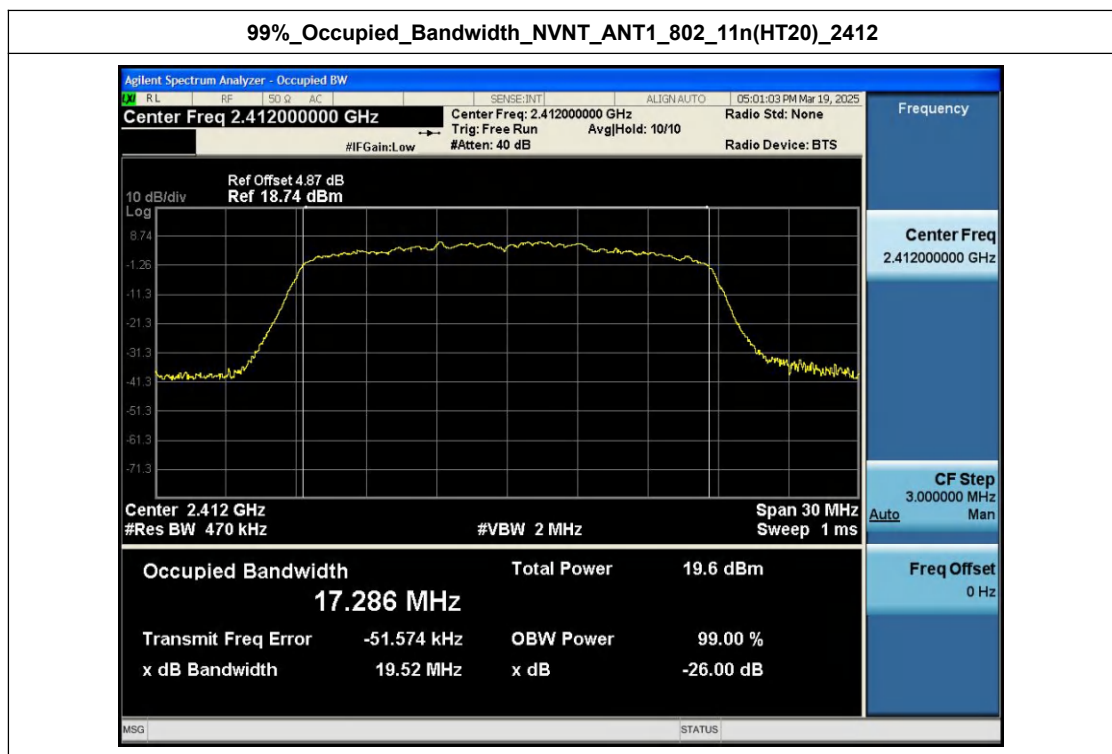


99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2462

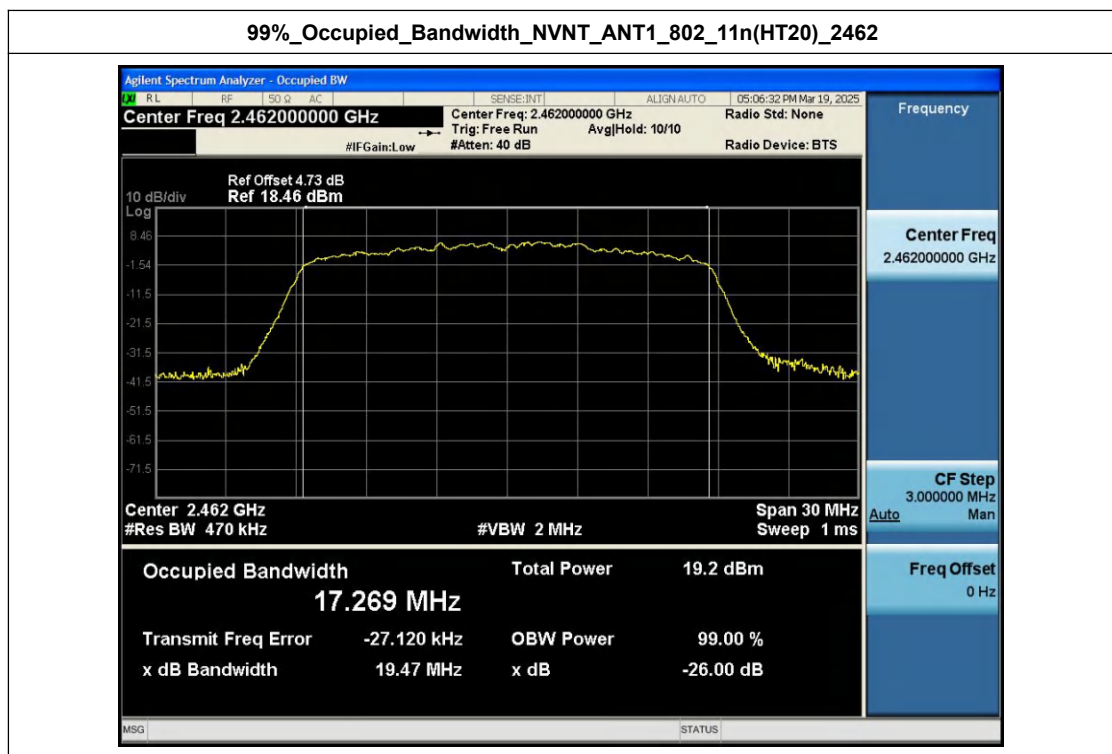
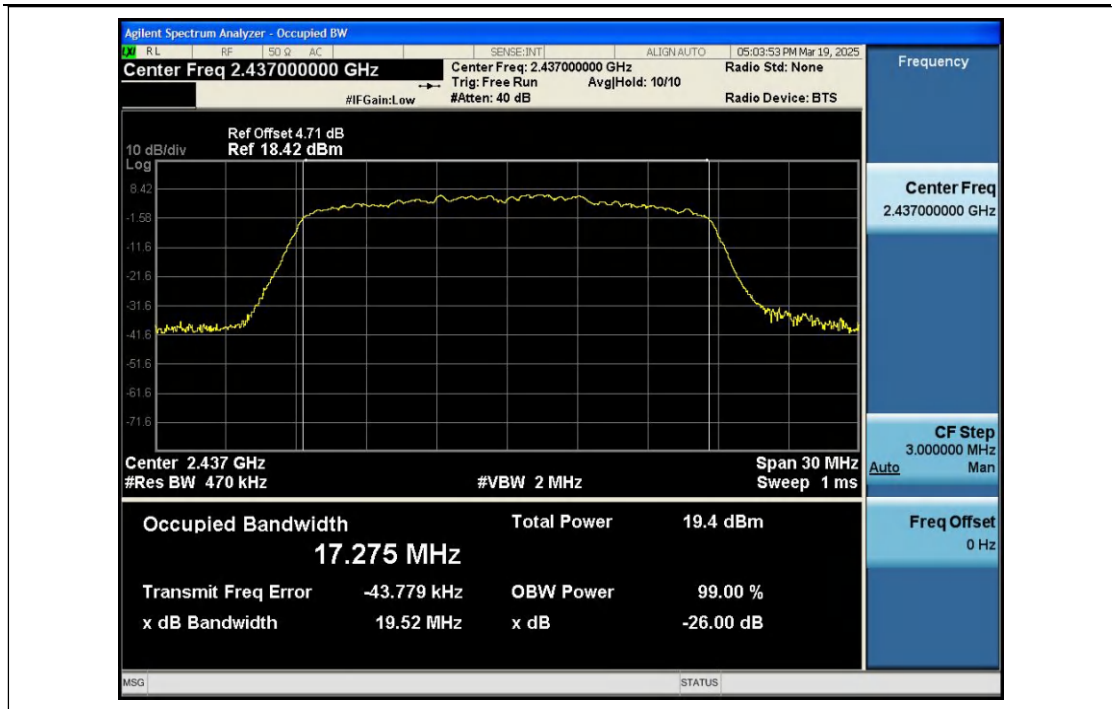




99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



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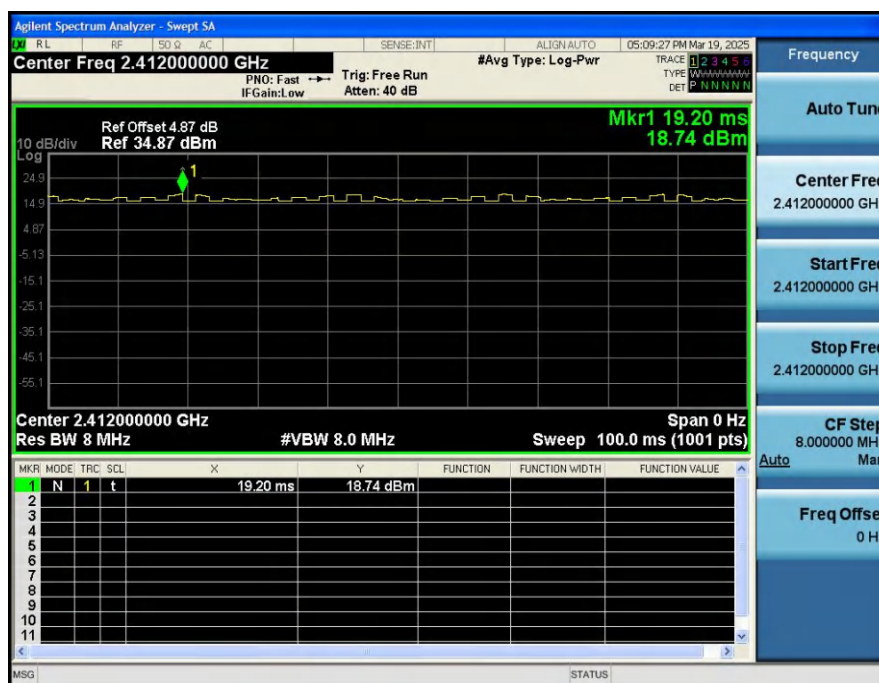


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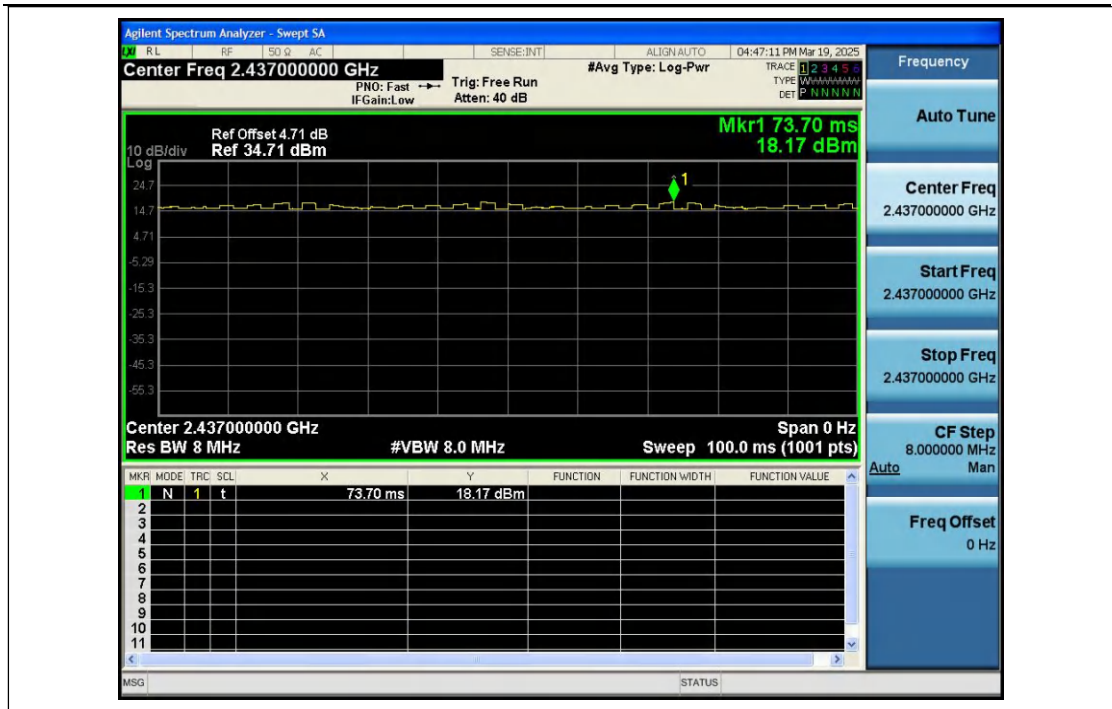
Appendix C: Duty Cycle

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

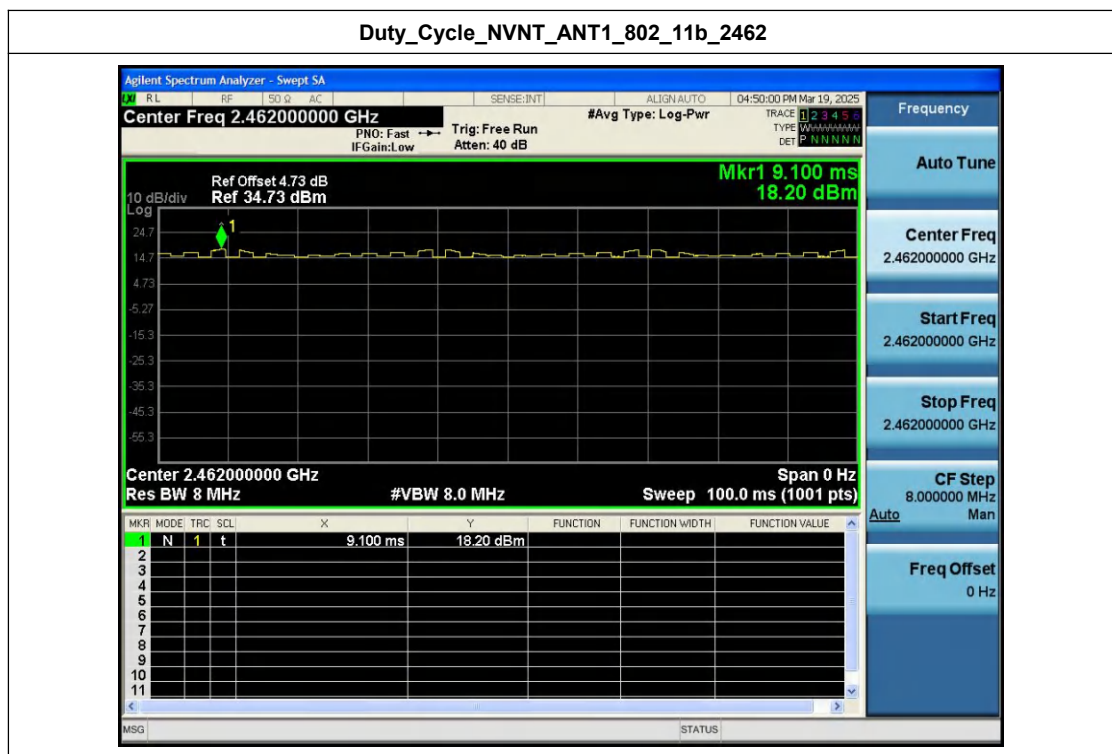
Duty_Cycle_NVNT_ANT1_802_11b_2412



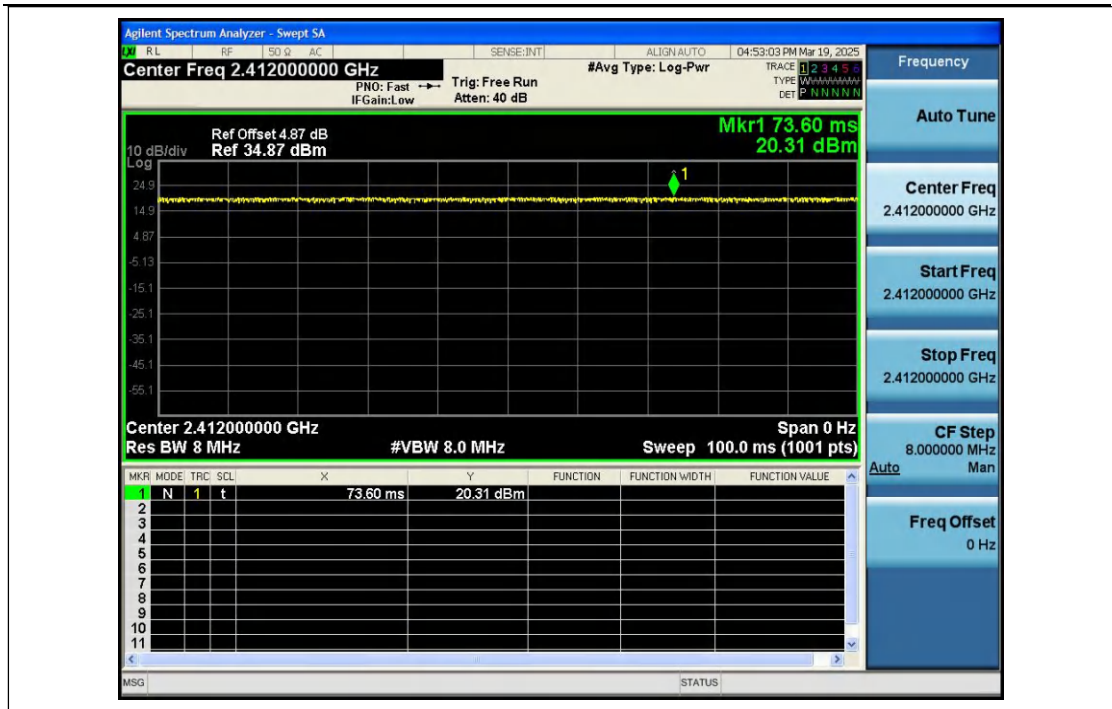
Duty_Cycle_NVNT_ANT1_802_11b_2437



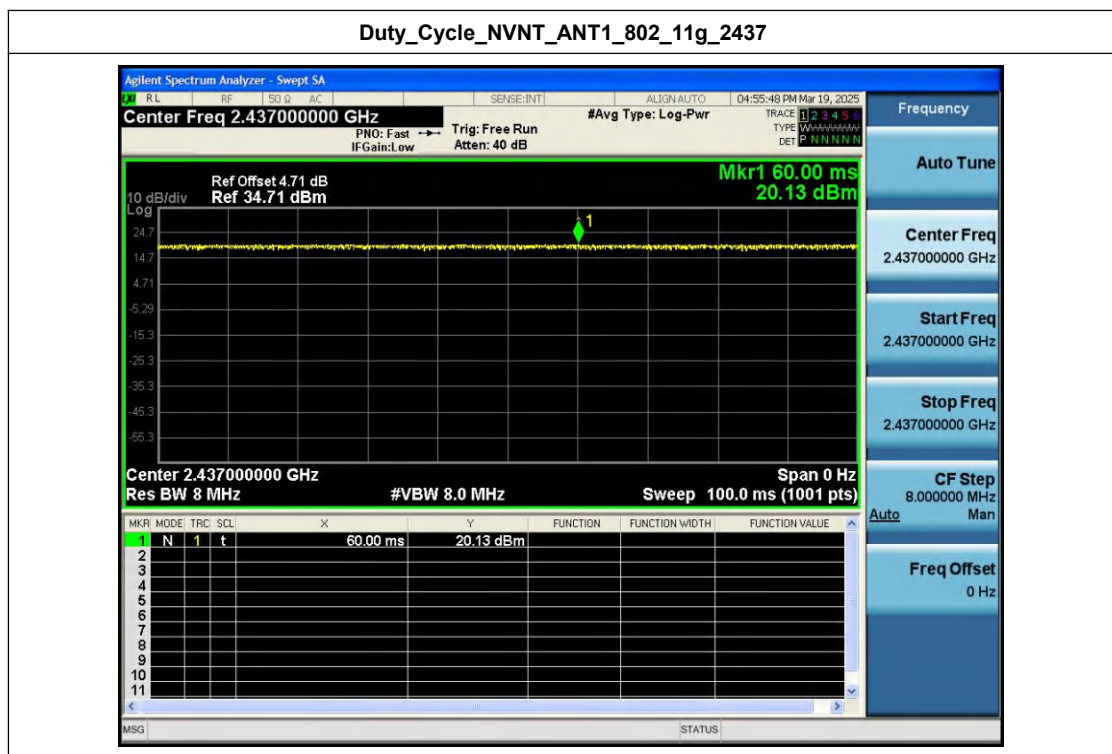
Duty_Cycle_NVNT_ANT1_802_11b_2462



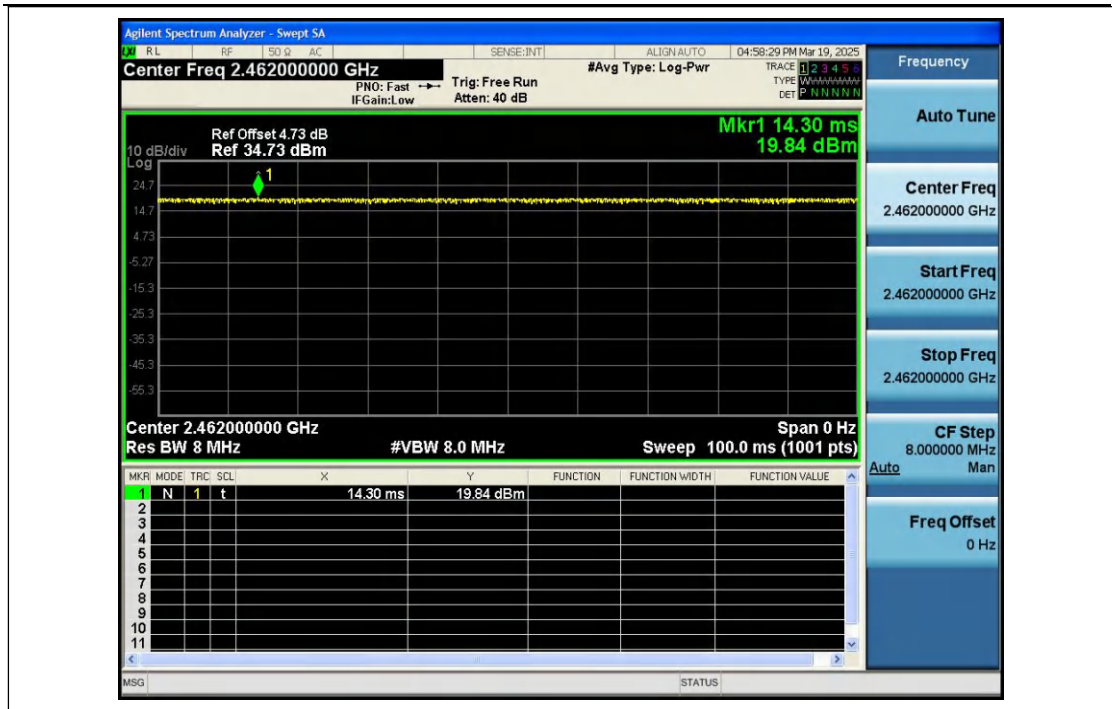
Duty_Cycle_NVNT_ANT1_802_11g_2412



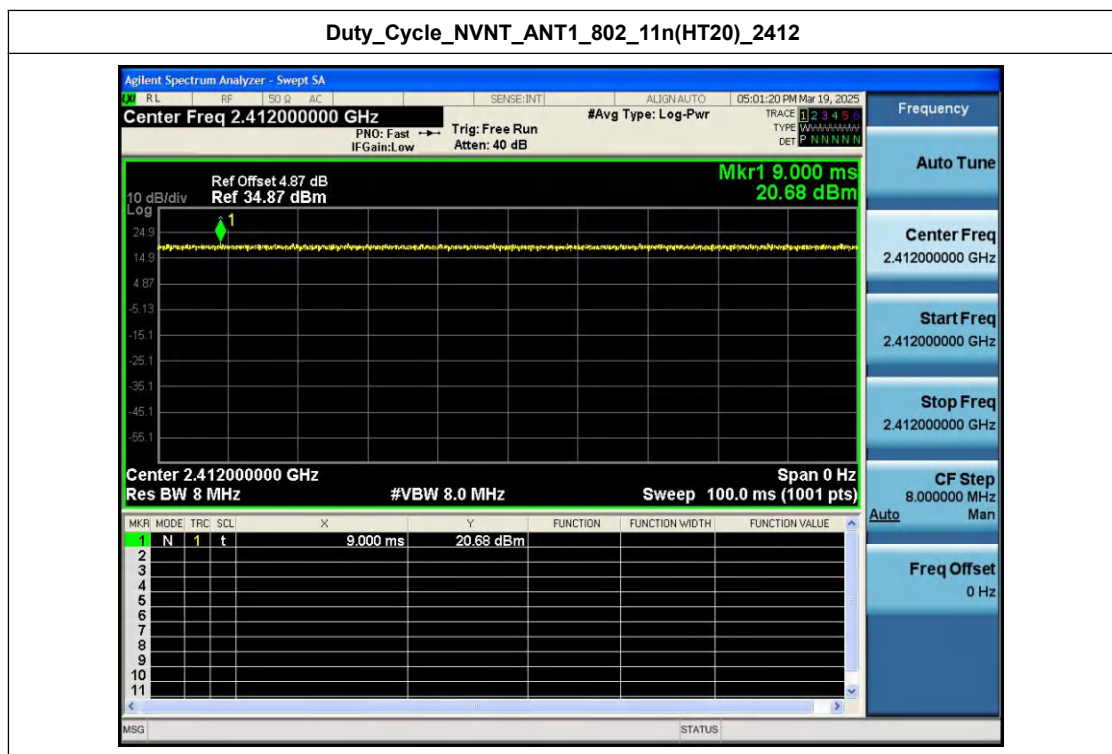
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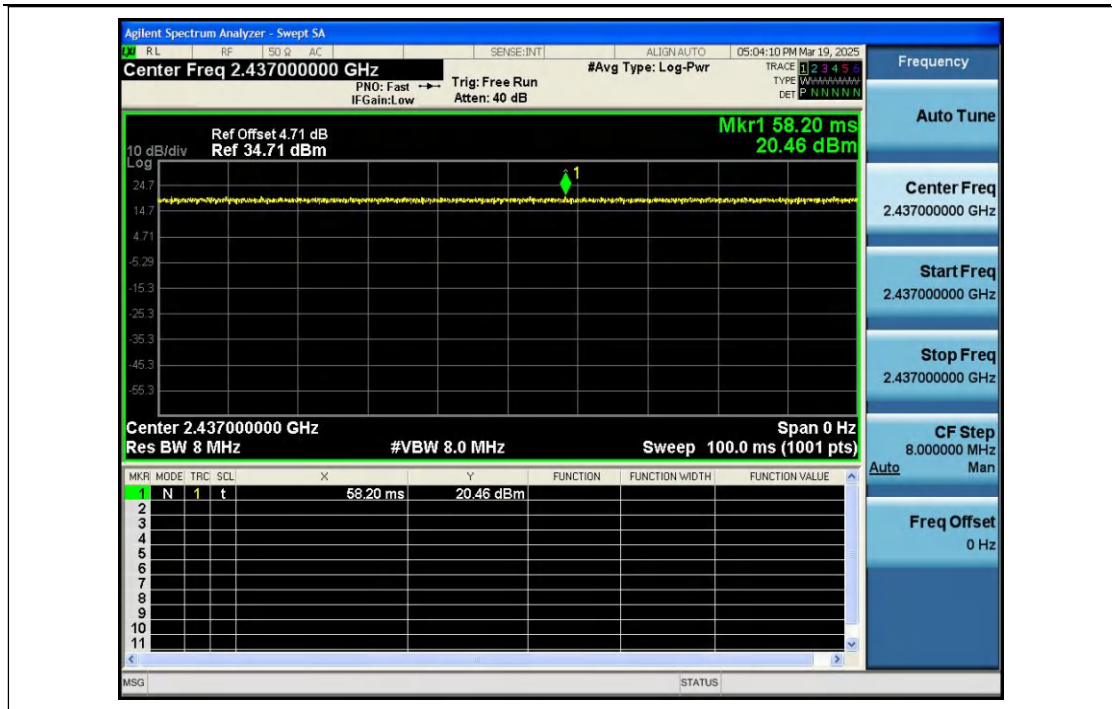
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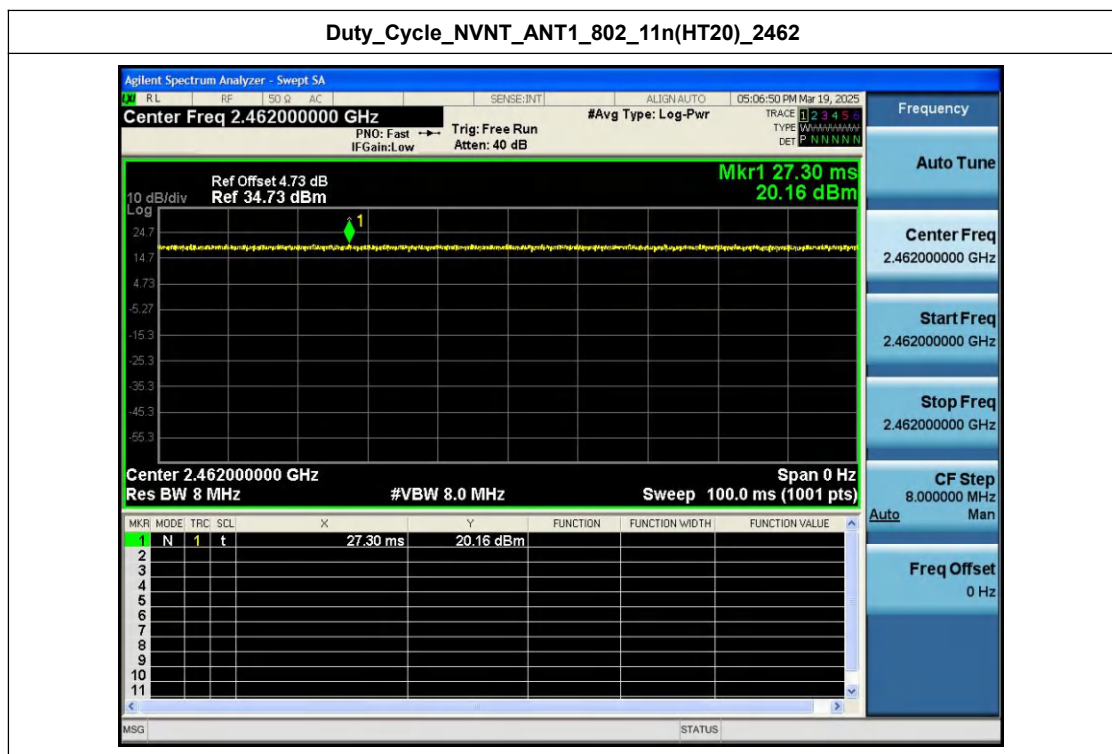
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



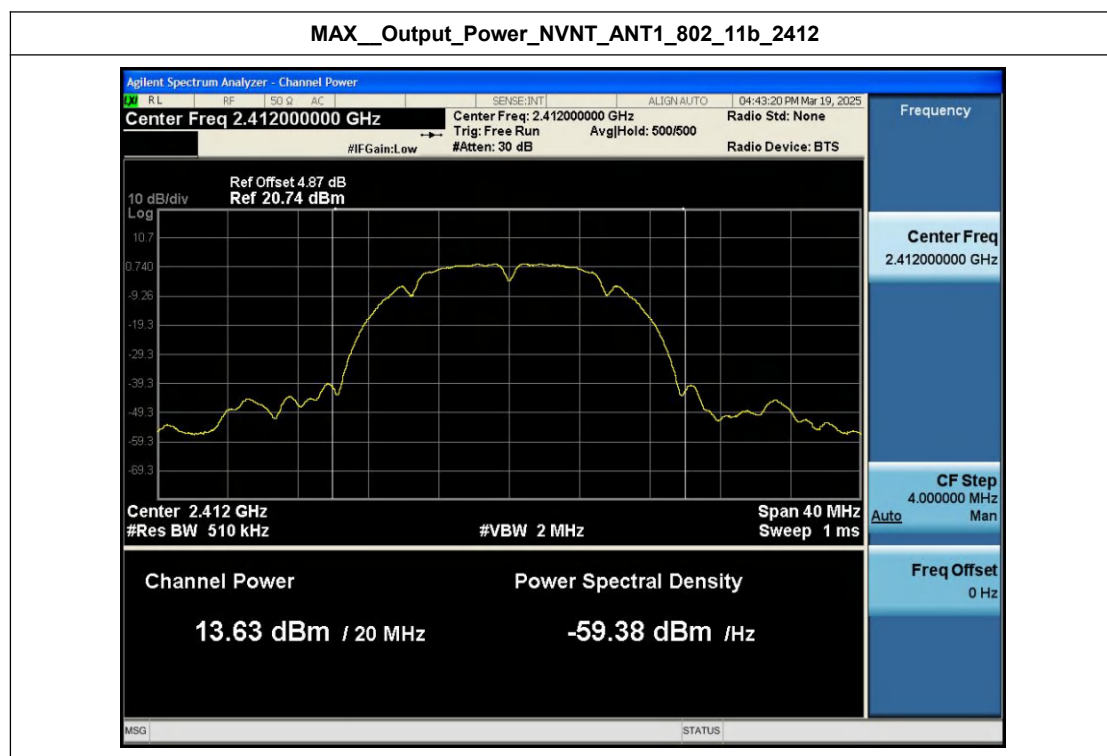
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462



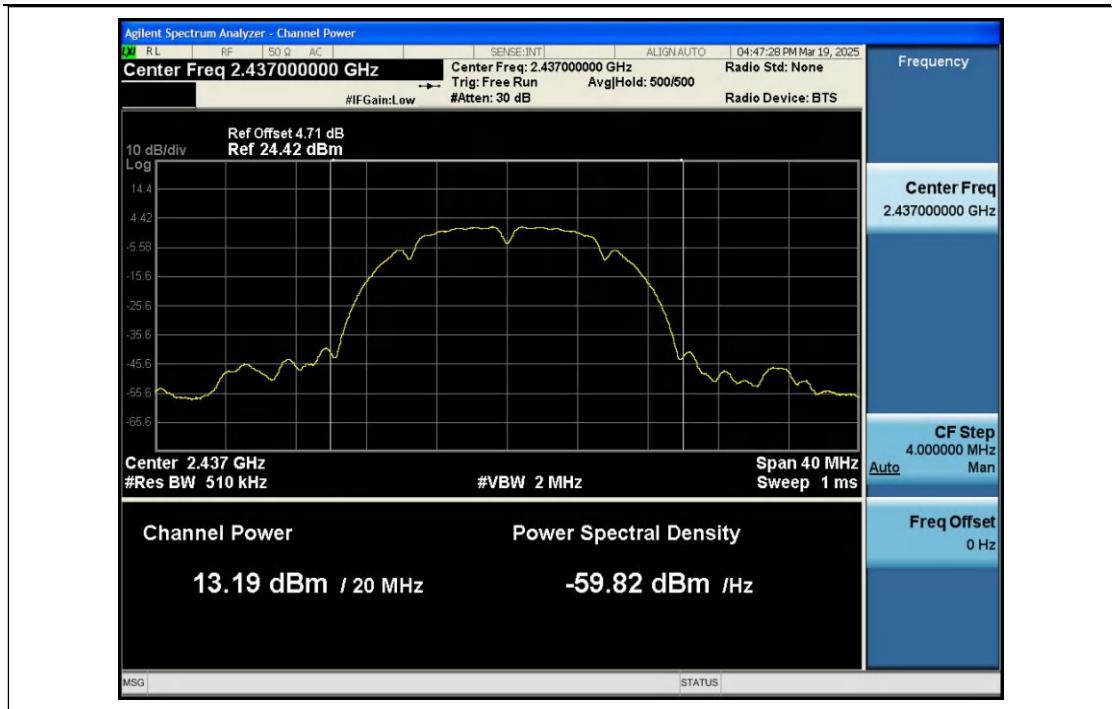
Appendix D: MAX. Output Power

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	13.63	0.00	13.63	30	Pass
NVNT	ANT1	802.11b	2437.00	RMS	13.19	0.00	13.19	30	Pass
NVNT	ANT1	802.11b	2462.00	RMS	12.88	0.00	12.88	30	Pass
NVNT	ANT1	802.11g	2412.00	RMS	13.16	0.00	13.16	30	Pass
NVNT	ANT1	802.11g	2437.00	RMS	12.93	0.00	12.93	30	Pass
NVNT	ANT1	802.11g	2462.00	RMS	12.73	0.00	12.73	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	RMS	12.94	0.00	12.94	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	RMS	12.75	0.00	12.75	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	RMS	12.60	0.00	12.60	30	Pass

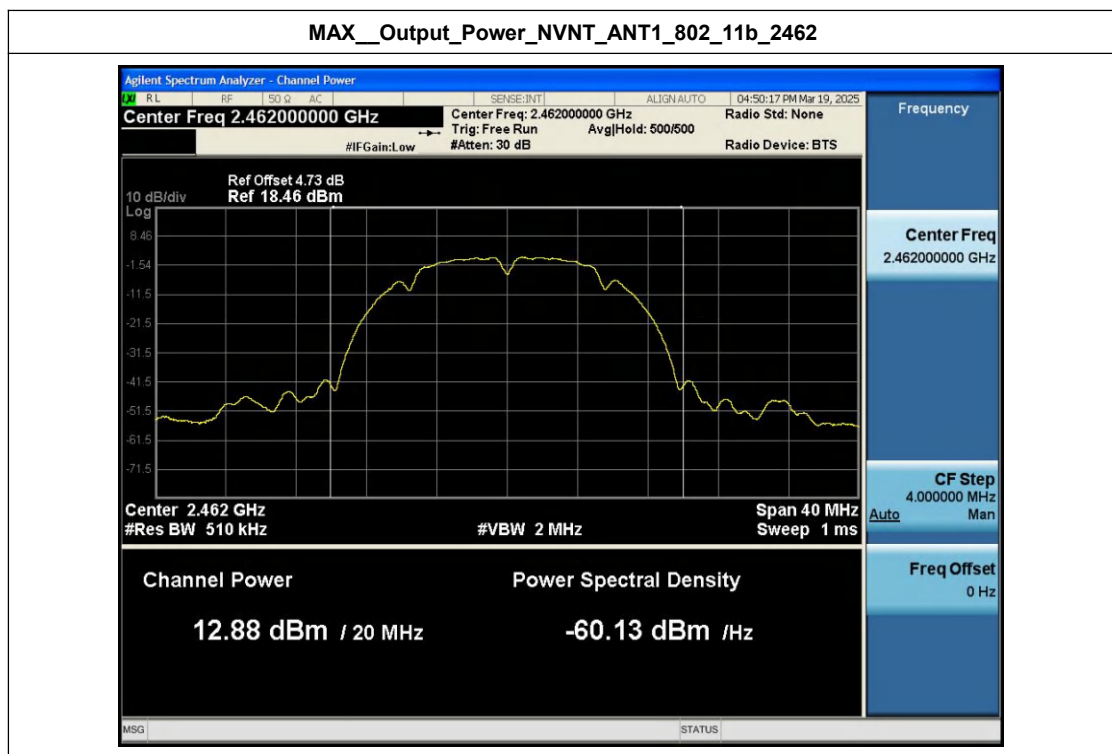
Note: 1.The cable loss are compensated in the graph.



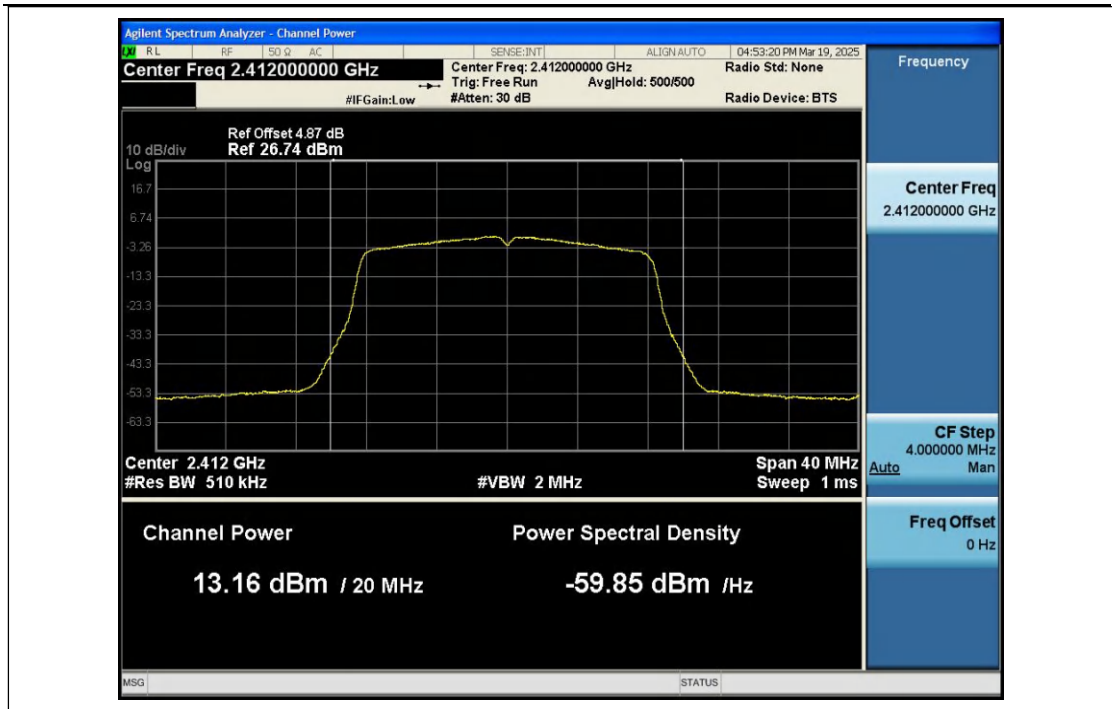
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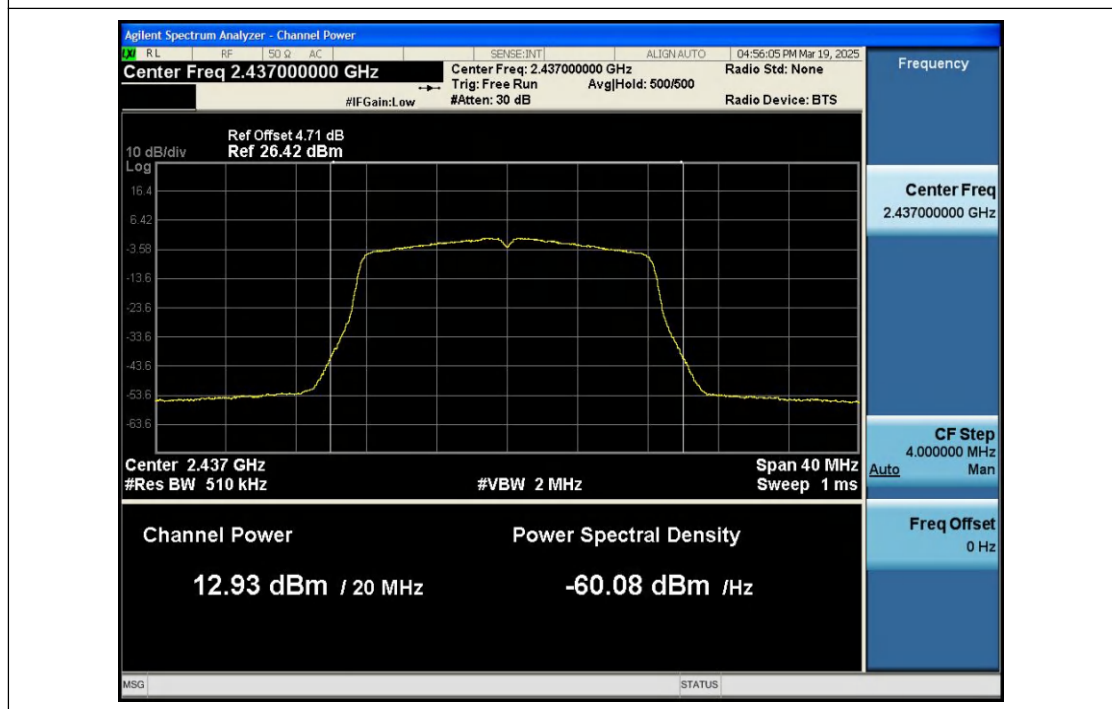
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MAX__Output_Power_NVNT_ANT1_802_11g_2412



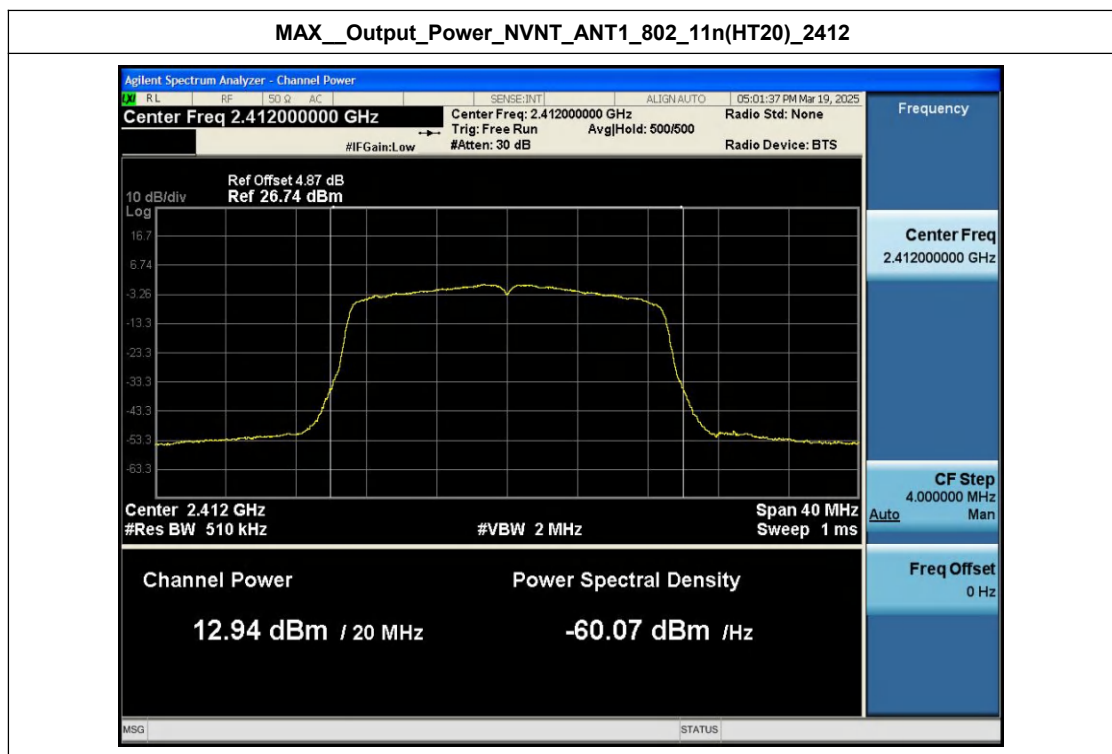
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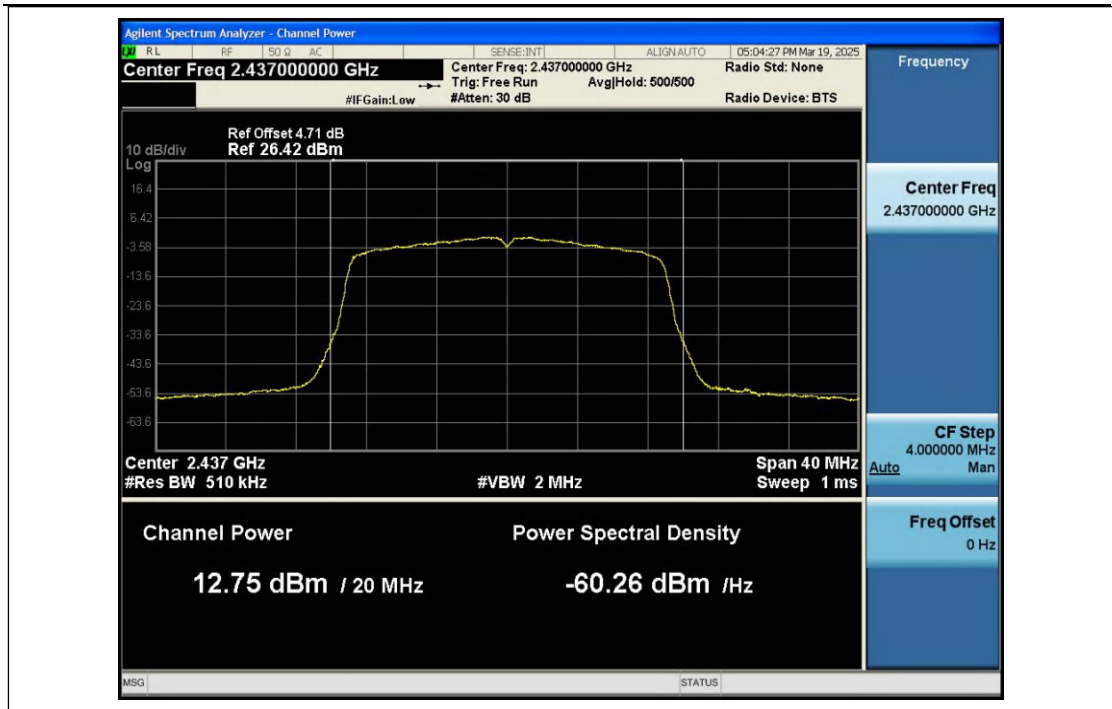
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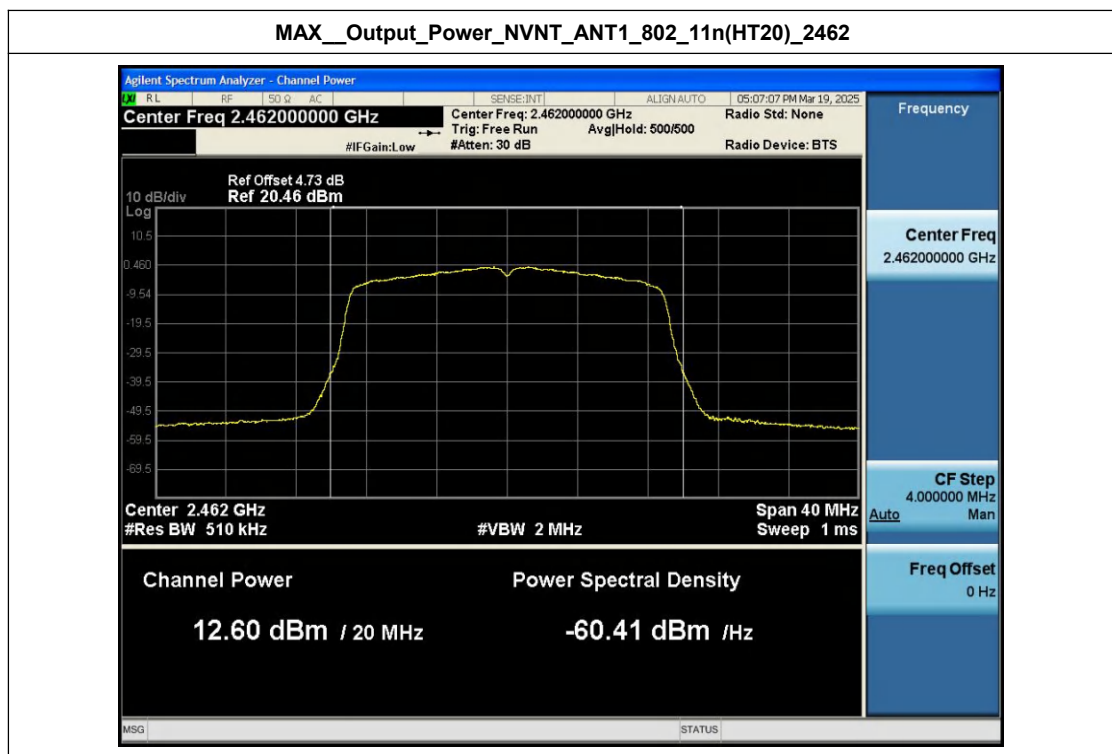
MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2412



MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2437



MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2462

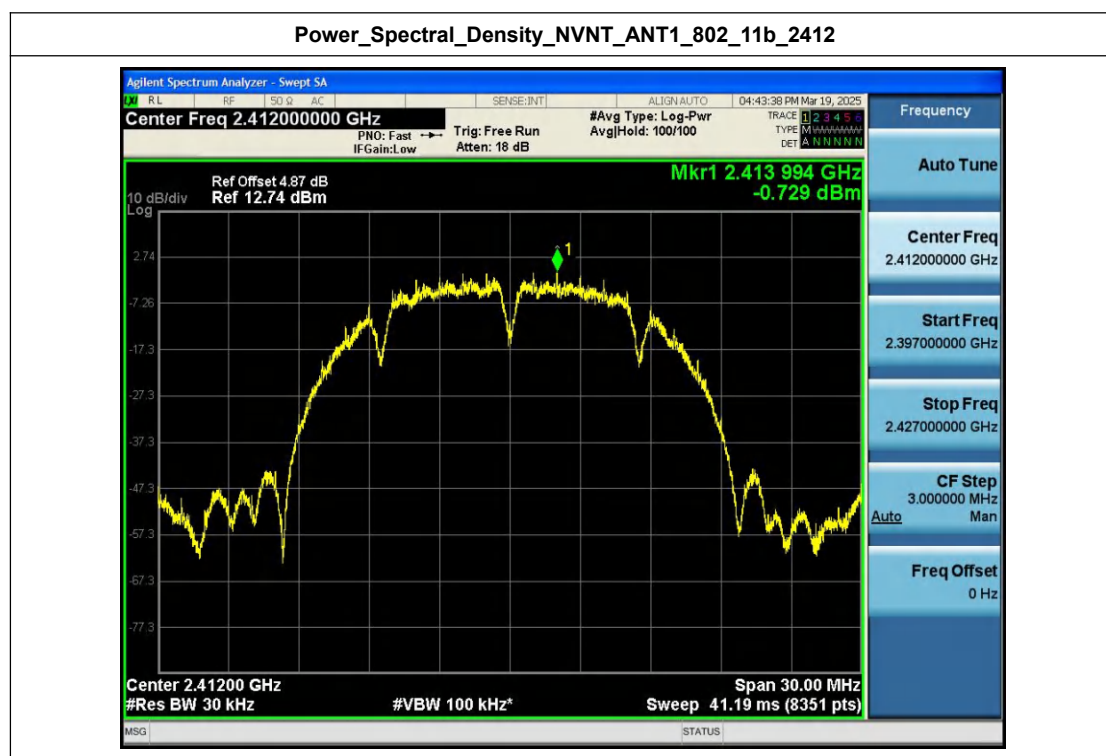


Appendix E: Power Spectral Density

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	-0.73	0.00	-10.00	-10.73	8	Pass
NVNT	ANT1	802.11b	2437.00	-1.05	0.00	-10.00	-11.05	8	Pass
NVNT	ANT1	802.11b	2462.00	-1.39	0.00	-10.00	-11.38	8	Pass
NVNT	ANT1	802.11g	2412.00	-1.01	0.00	-10.00	-11.01	8	Pass
NVNT	ANT1	802.11g	2437.00	-1.33	0.00	-10.00	-11.33	8	Pass
NVNT	ANT1	802.11g	2462.00	-1.39	0.00	-10.00	-11.39	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-1.58	0.00	-10.00	-11.58	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-1.92	0.00	-10.00	-11.92	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-1.97	0.00	-10.00	-11.96	8	Pass

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

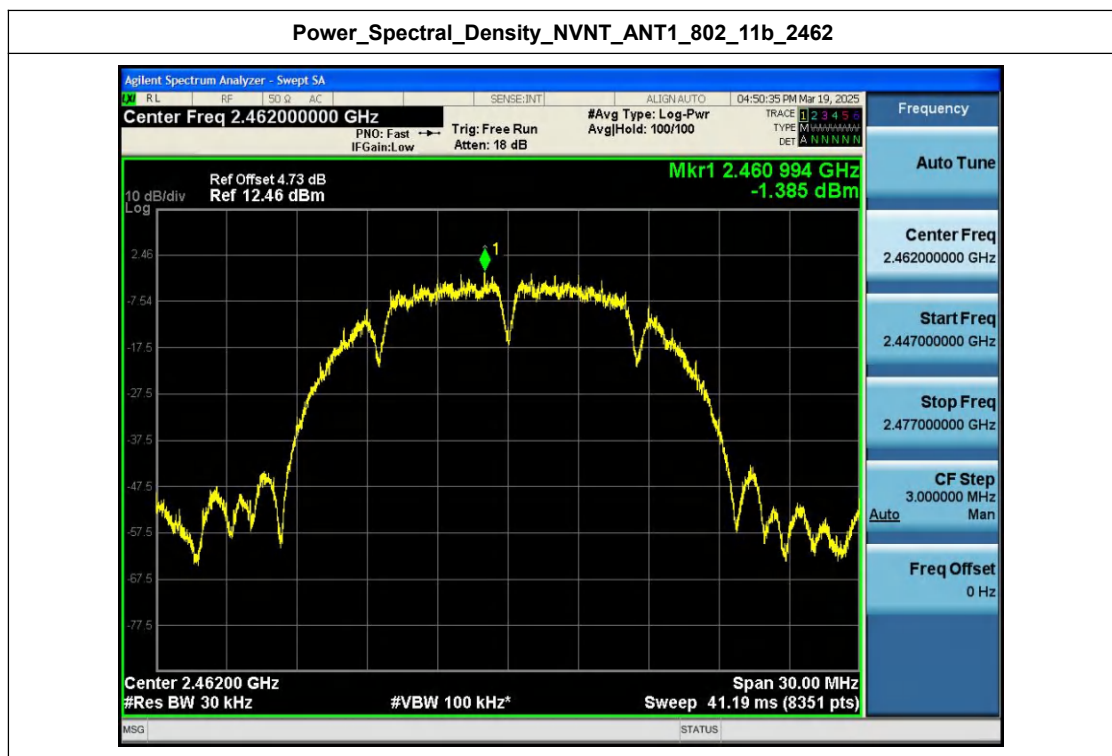
2. $PSD(dBm/3kHz) = PSD(dBm/30kHz) - (10 \cdot \log(30/3))$.



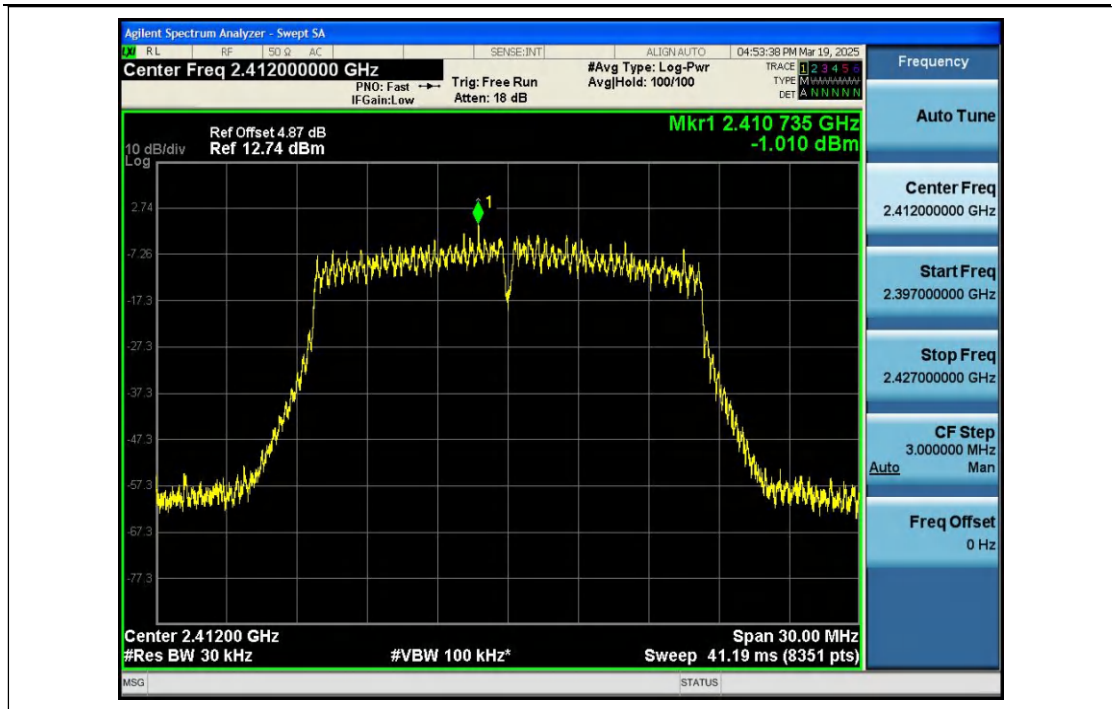
Power_Spectral_Density_NVNT_ANT1_802_11b_2437



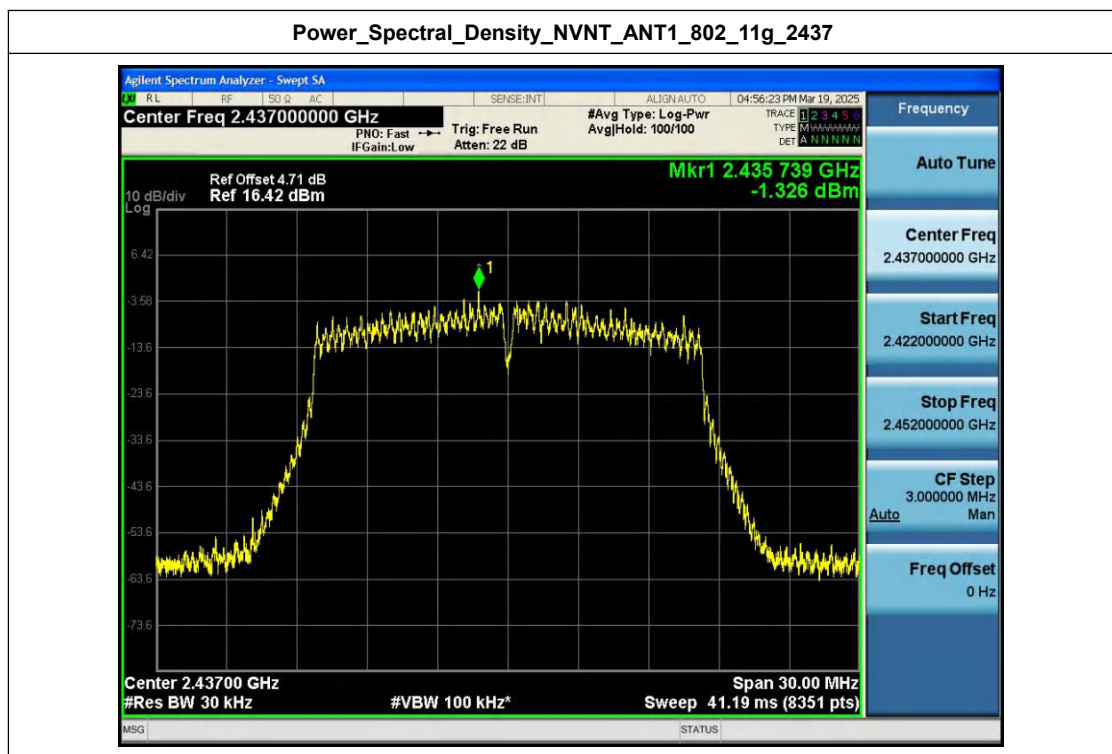
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Power_Spectral_Density_NVNT_ANT1_802_11g_2412



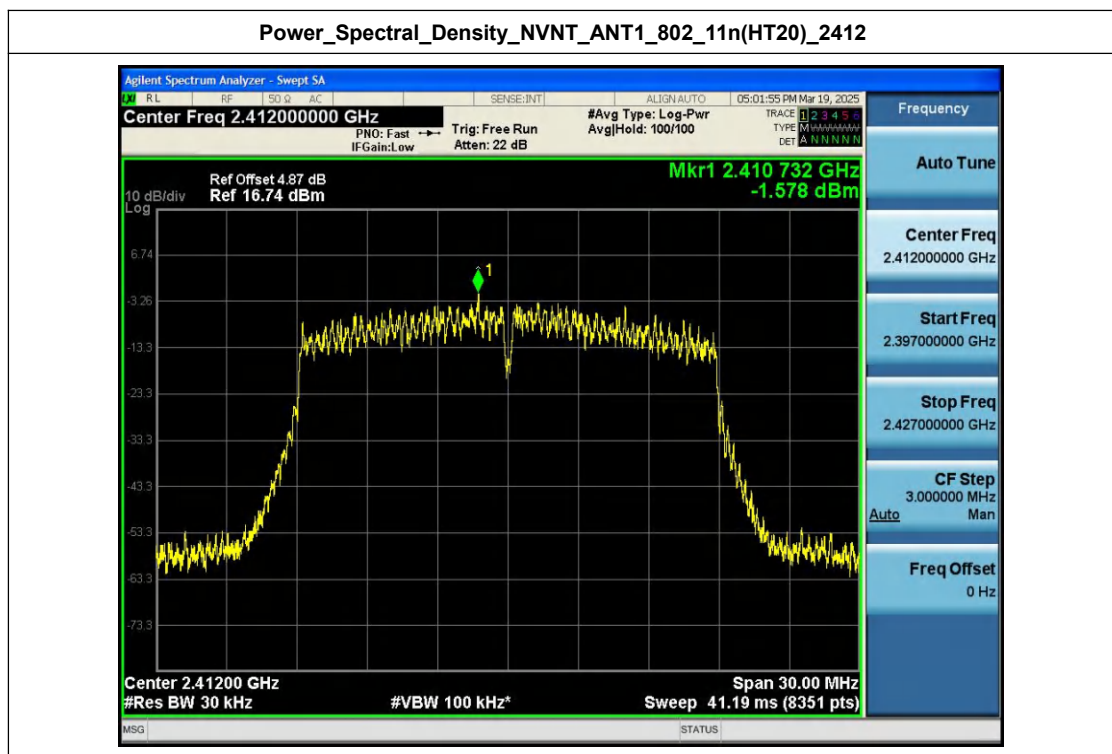
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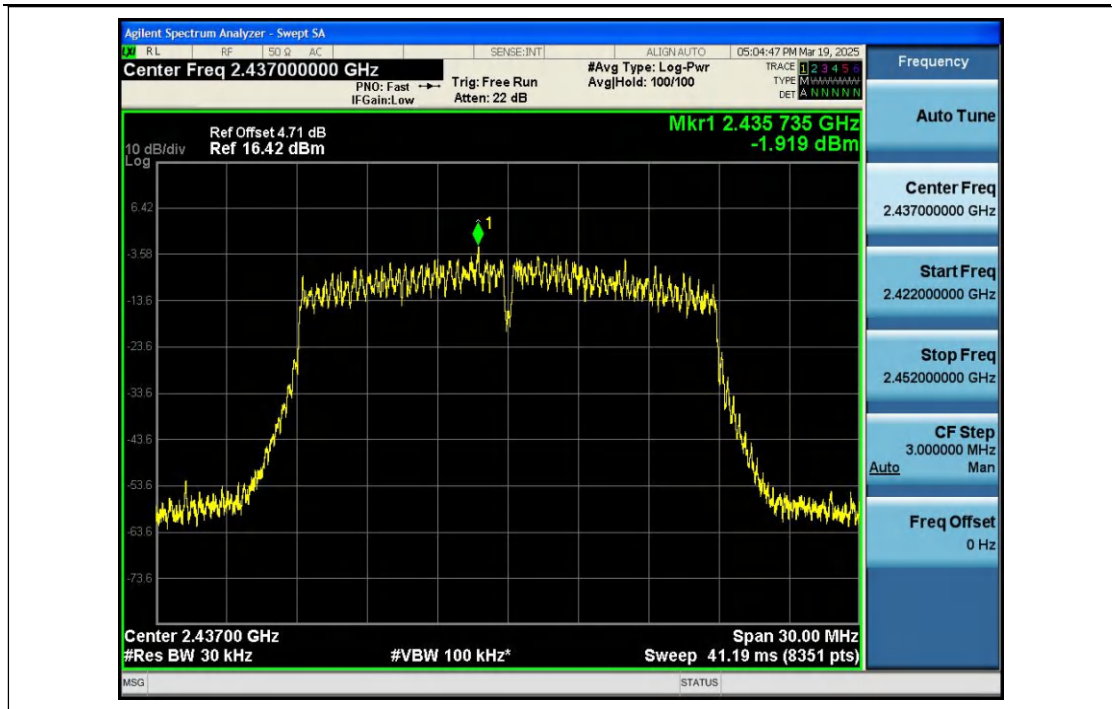
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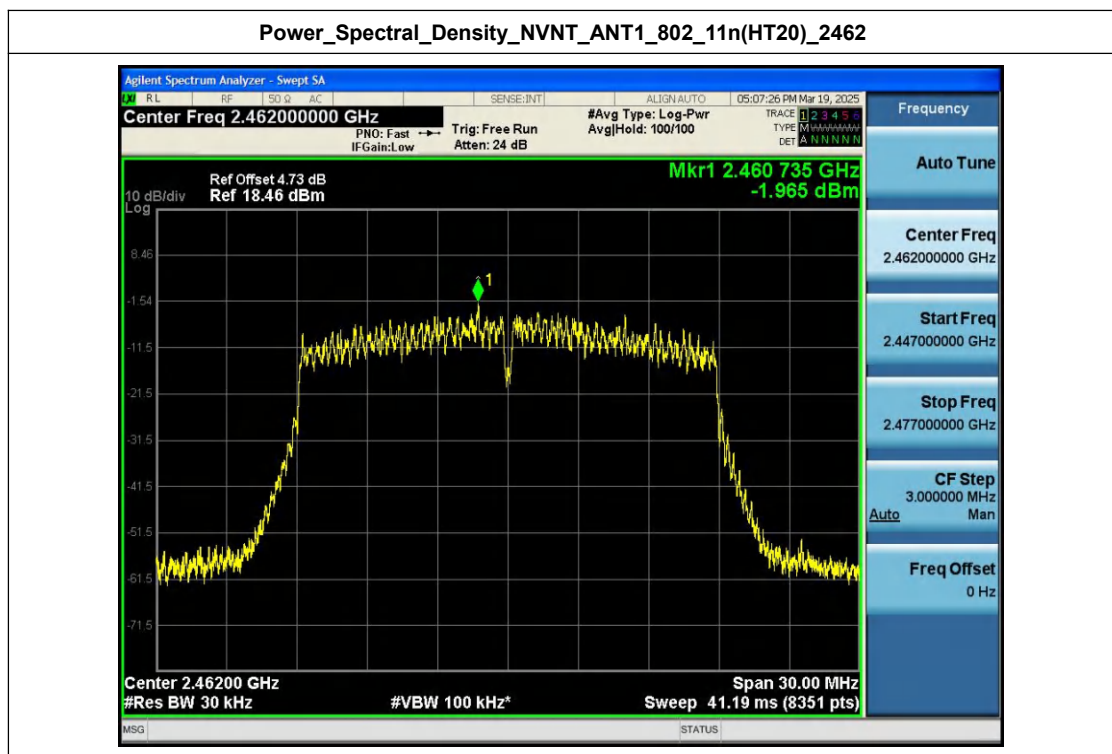
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2462



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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	3.630	-41.006	-26.370	Pass
NVNT	ANT1	802.11b	2462.00	2487.616	2.952	-51.512	-27.048	Pass
NVNT	ANT1	802.11g	2412.00	2397.024	3.693	-47.802	-26.307	Pass
NVNT	ANT1	802.11g	2462.00	2485.360	3.220	-52.782	-26.780	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2398.256	3.646	-45.588	-26.354	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2485.648	3.184	-51.662	-26.816	Pass

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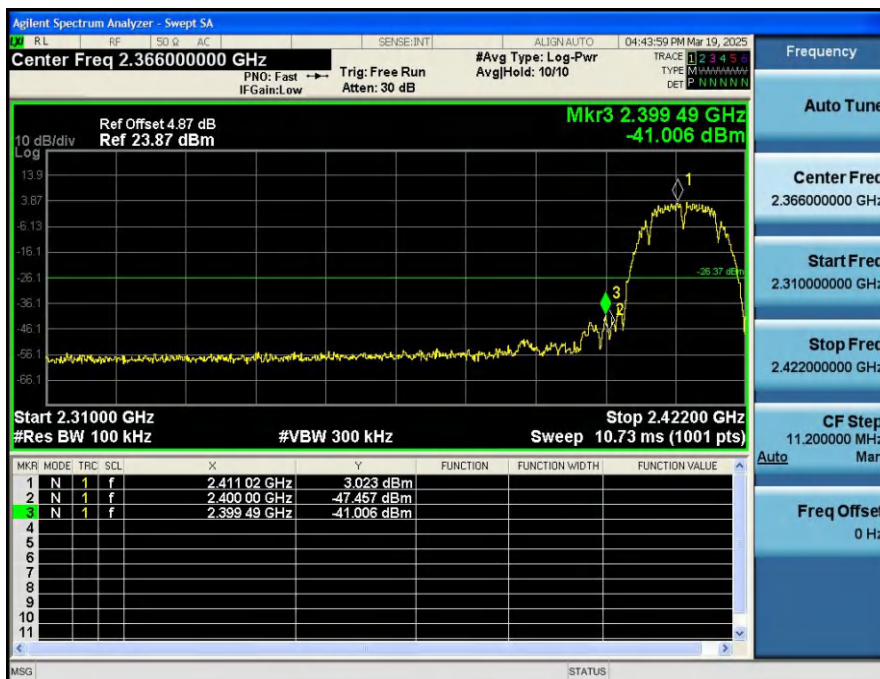


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1_Reference_Level_NVNT_ANT1_802_11b_2412



2_Bandedge_NVNT_ANT1_802_11b_2412



1_Reference_Level_NVNT_ANT1_802_11b_2462



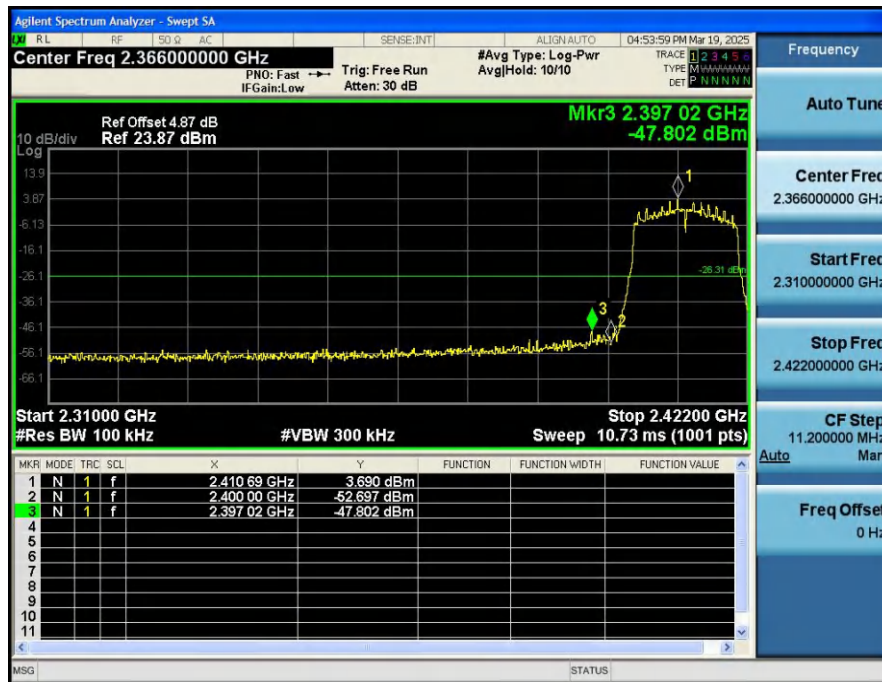
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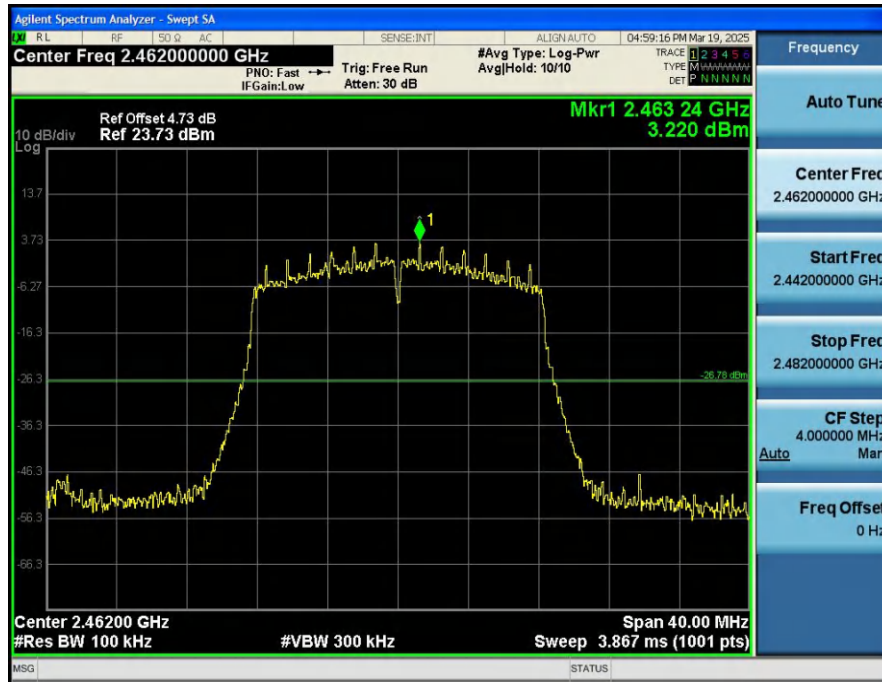
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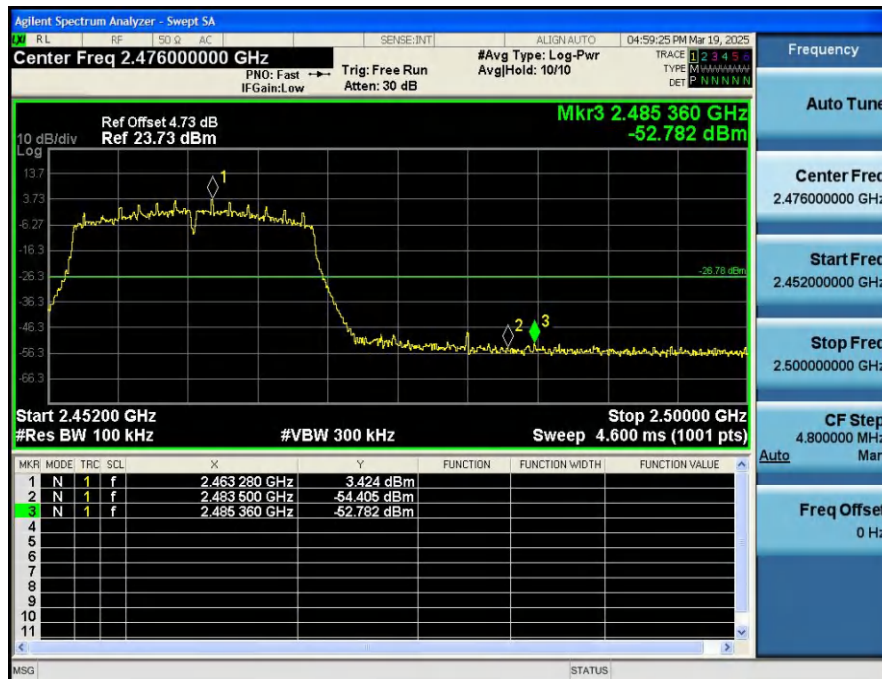
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1_Reference_Level_NVNT_ANT1_802_11g_2462



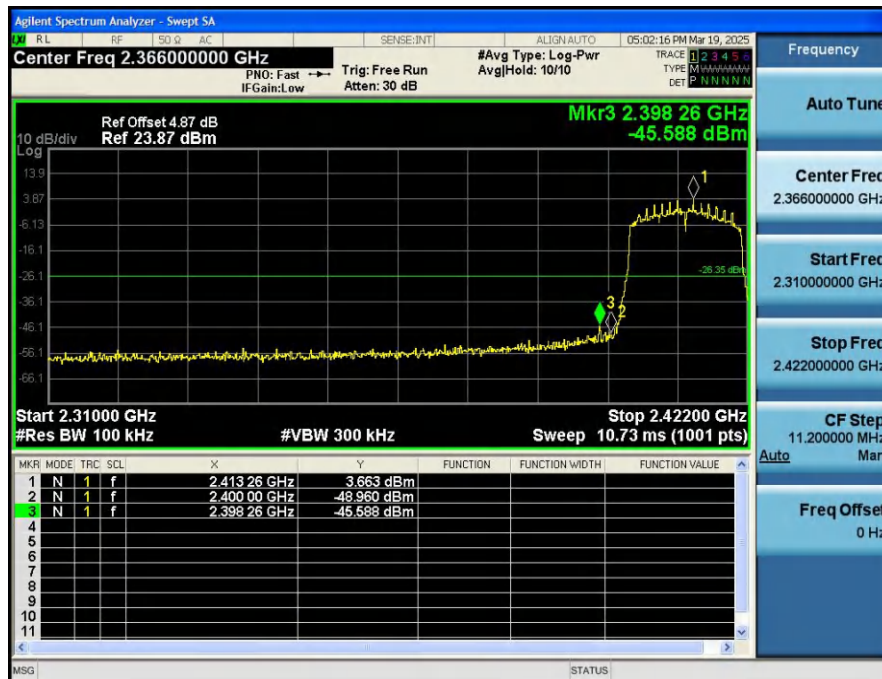
2_Bandedge_NVNT_ANT1_802_11g_2462



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



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



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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	24845.186	3.630	-45.044	-26.370	Pass
NVNT	ANT1	802.11b	2437.00	24835.198	3.251	-44.891	-26.749	Pass
NVNT	ANT1	802.11b	2462.00	24220.936	2.952	-43.897	-27.048	Pass
NVNT	ANT1	802.11g	2412.00	24835.198	3.693	-44.894	-26.307	Pass
NVNT	ANT1	802.11g	2437.00	24767.779	3.361	-44.315	-26.639	Pass
NVNT	ANT1	802.11g	2462.00	24573.013	3.220	-44.752	-26.780	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24190.972	3.646	-44.594	-26.354	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24253.397	3.383	-44.833	-26.617	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24340.792	3.184	-44.901	-26.816	Pass

Shenzhen Anbotek Compliance Laboratory Limited

Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park,
Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Tel:(86)0755-26066440 Email:service@anbotek.com

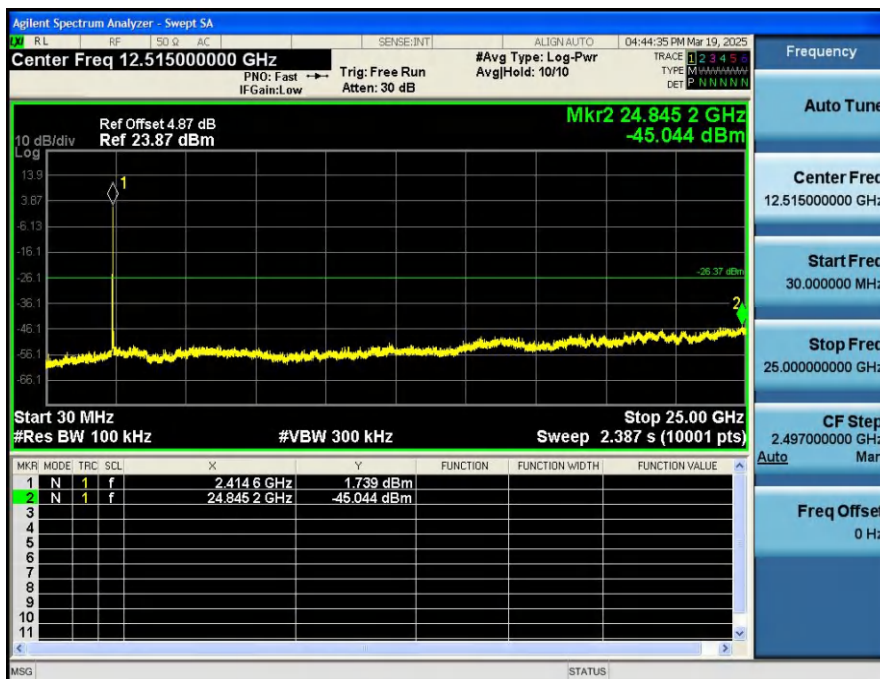


Hotline
400-003-0500
www.anbotek.com

1_Reference_Level_NVNT_ANT1_802_11b_2412



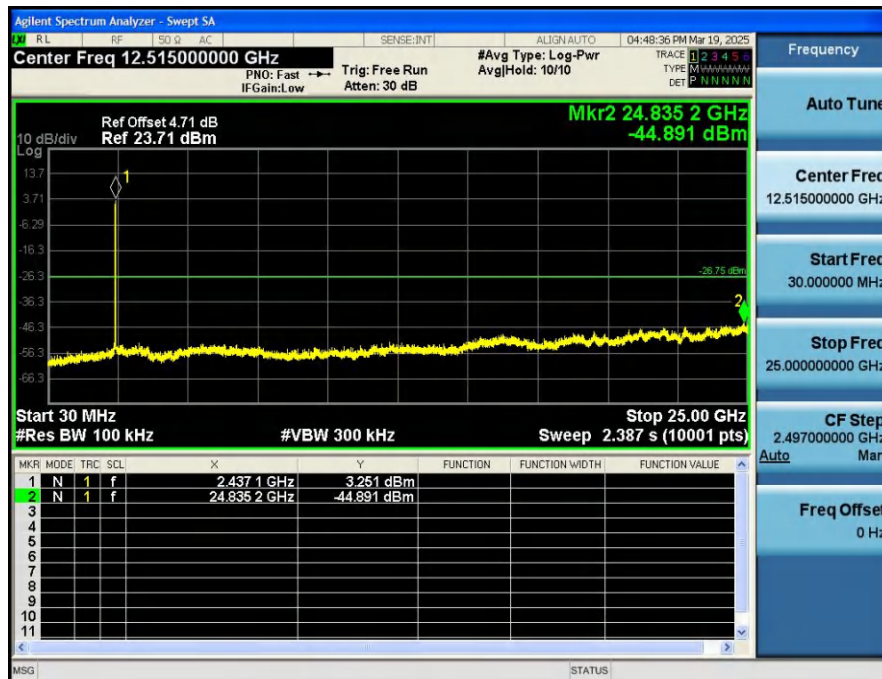
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1_Reference_Level_NVNT_ANT1_802_11b_2437



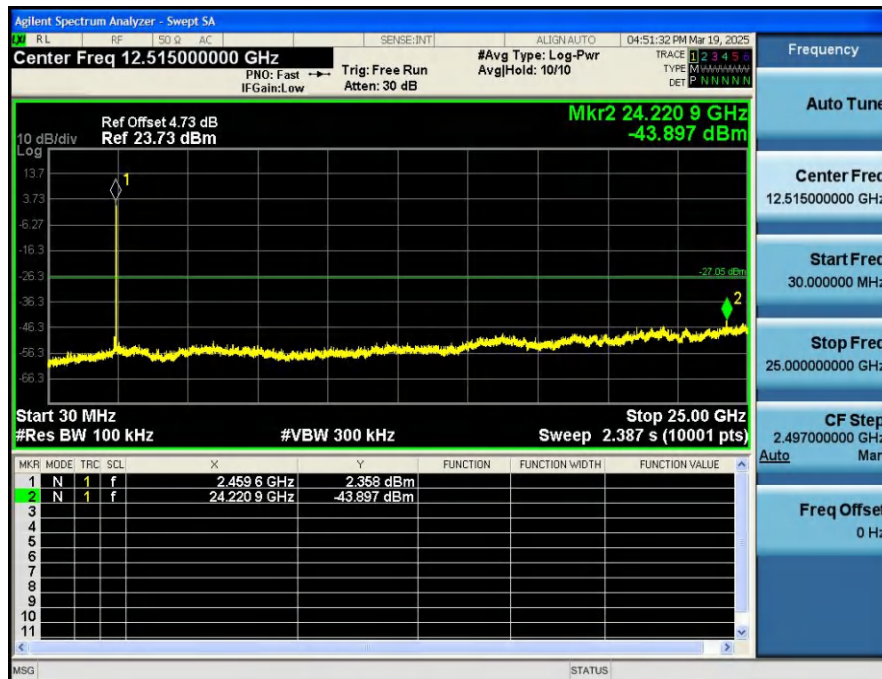
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1_Reference_Level_NVNT_ANT1_802_11b_2462



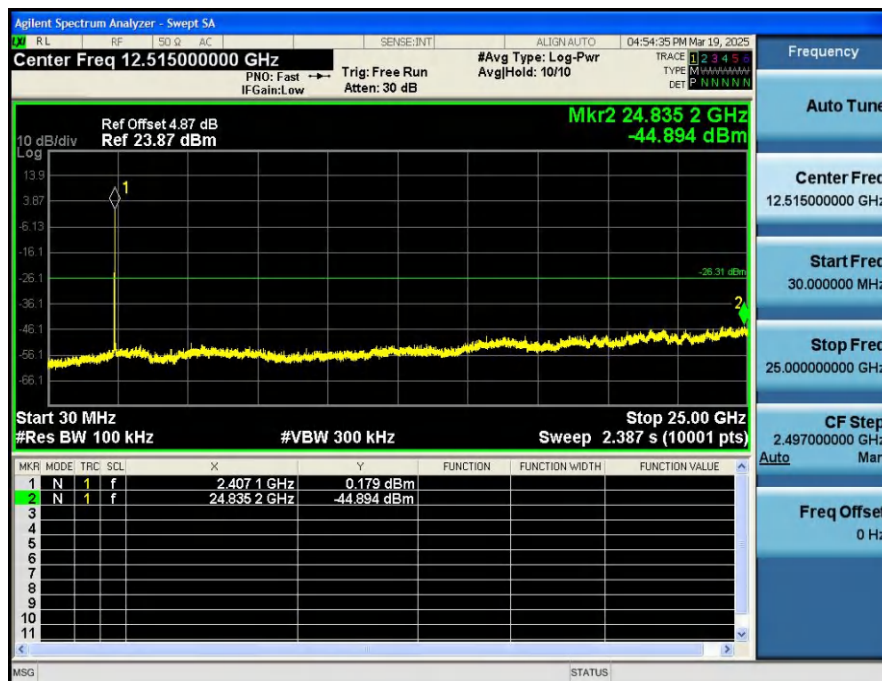
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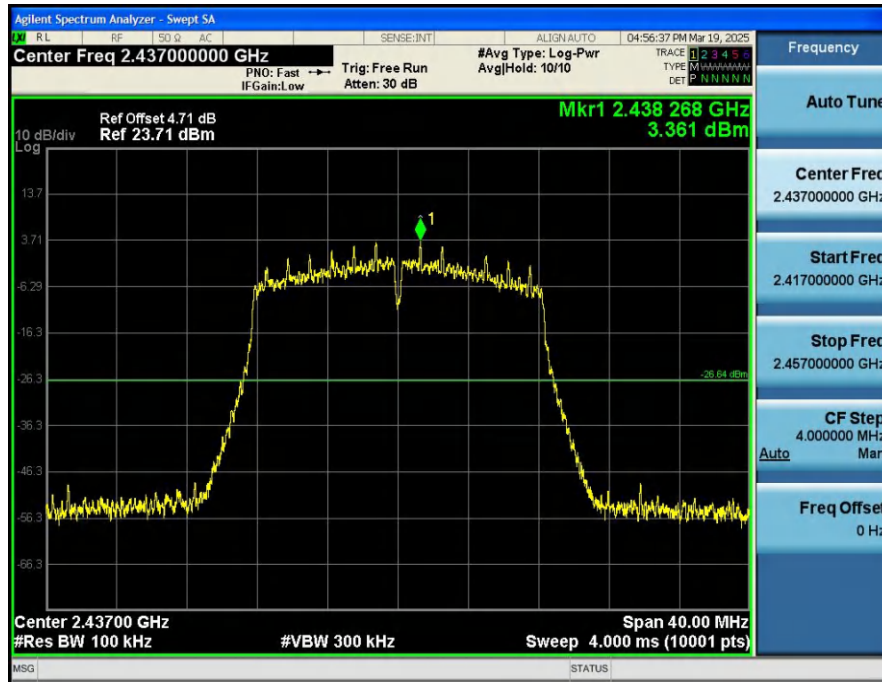
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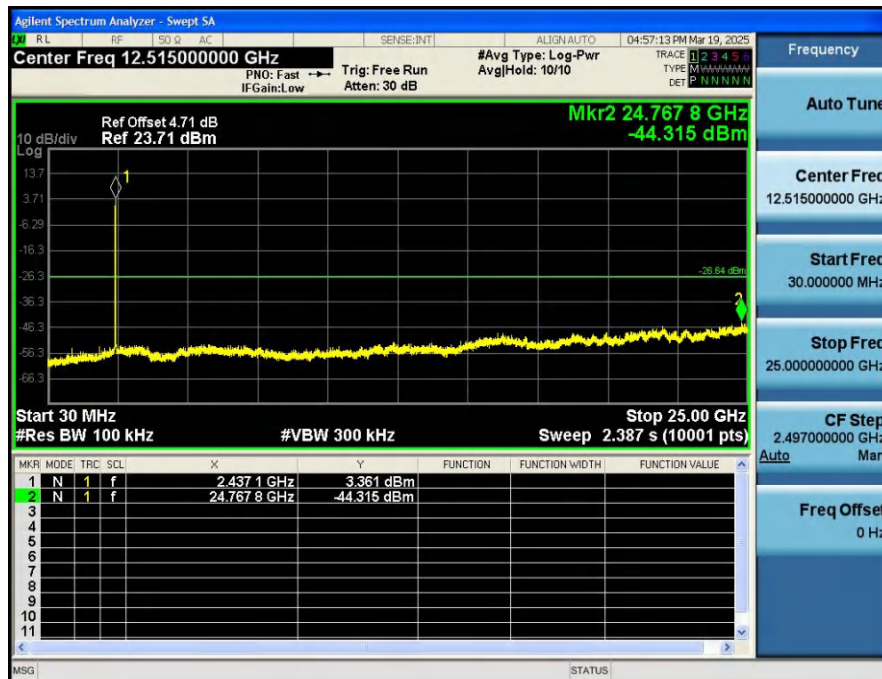
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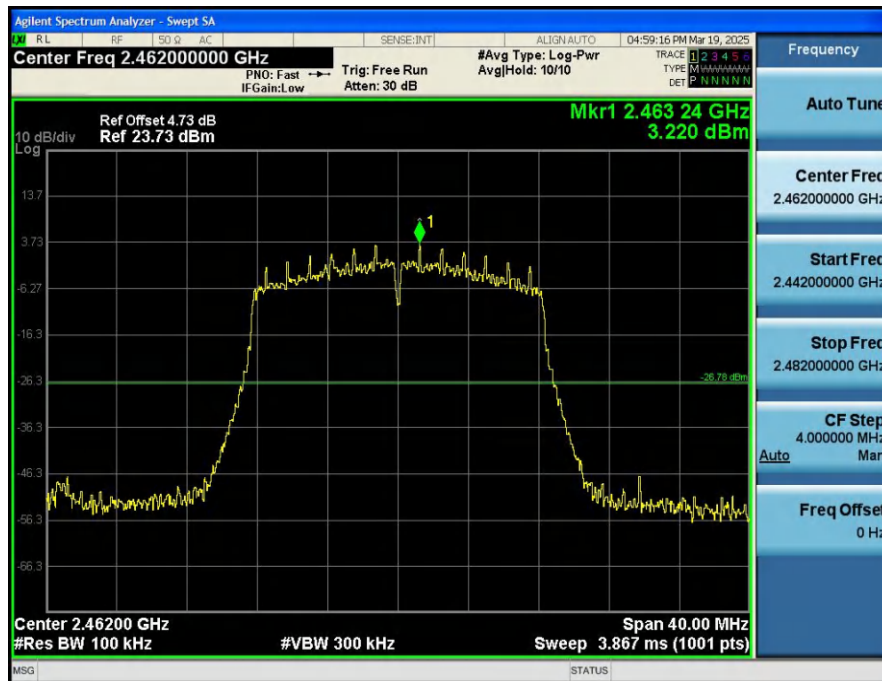
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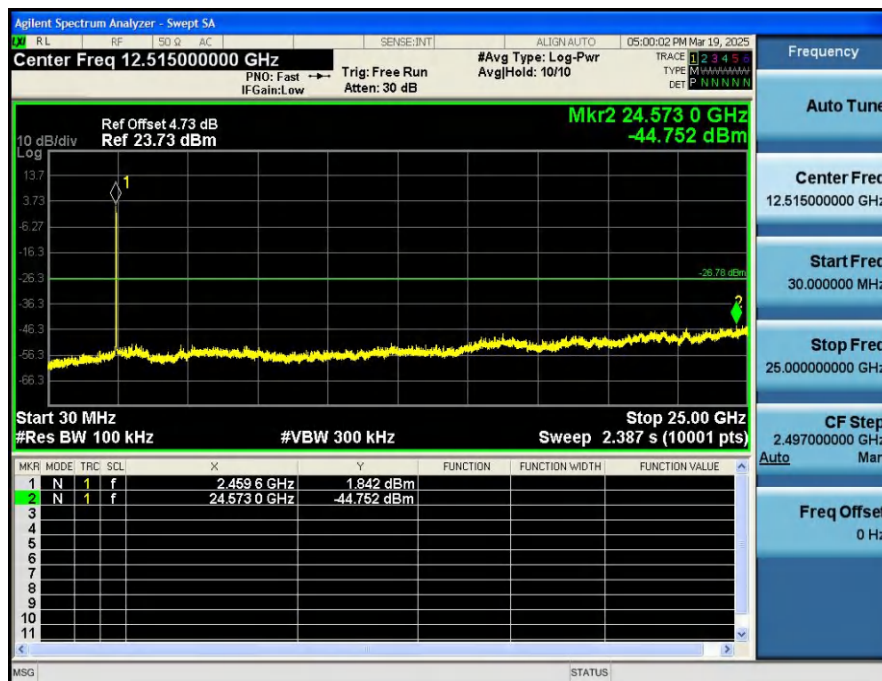
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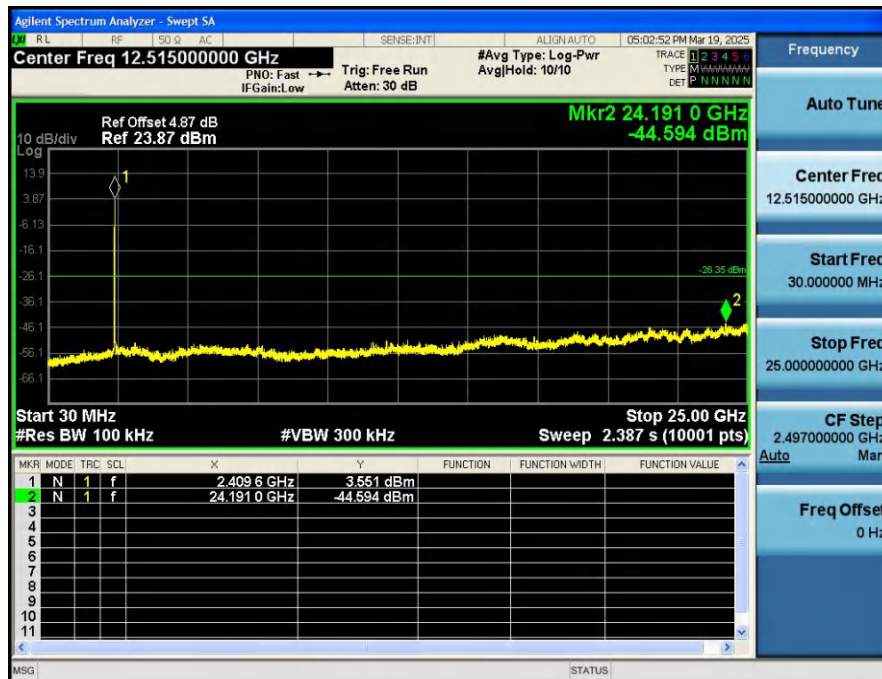
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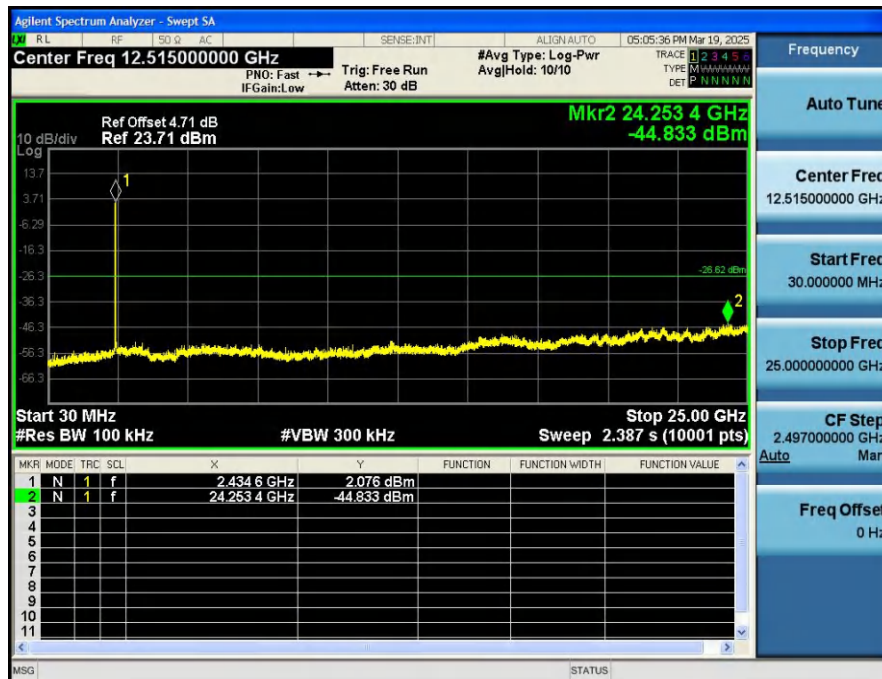
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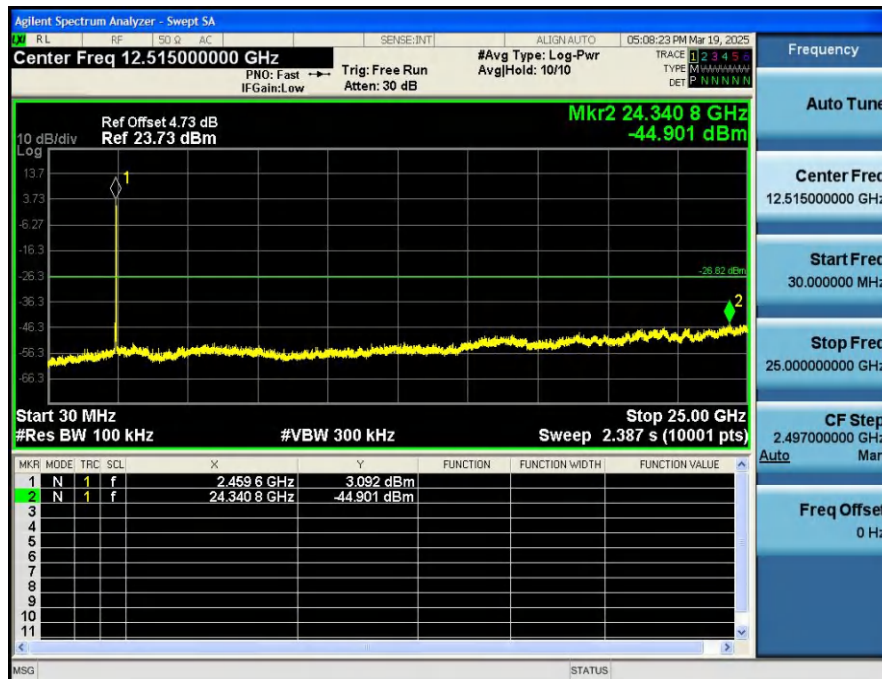
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1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2462



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