

Appendix Test Data

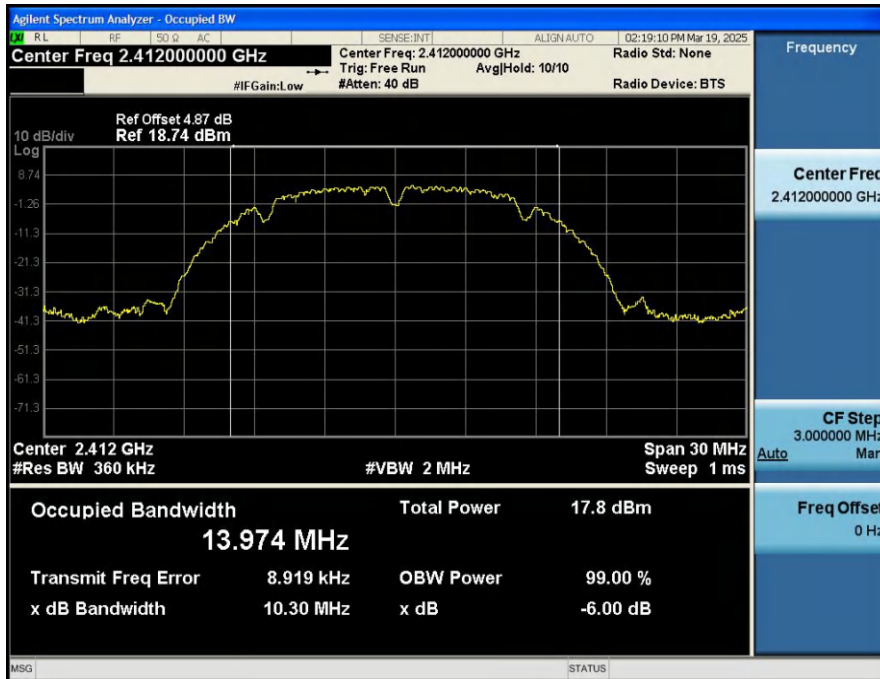
Report No.:	1814C50075212501	Test Sample No.:	1-2-2
Start Test Date:	2025-03-13	Finish Test Date:	2025-03-19
Test Engineer:	<i>Liangfei Yang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	19.7°C	Relative Humidity:	32%
Pressure:	101kPa		

Appendix A: -6dB Bandwidth

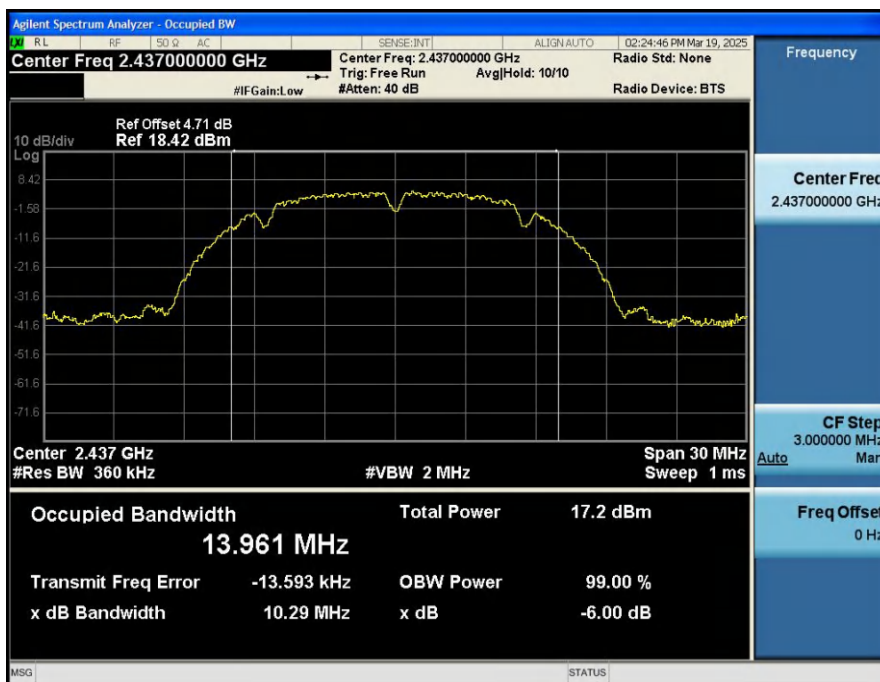
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	10.30	500	Pass
NVNT	ANT1	802.11b	2437.00	10.29	500	Pass
NVNT	ANT1	802.11b	2462.00	10.28	500	Pass
NVNT	ANT1	802.11g	2412.00	15.23	500	Pass
NVNT	ANT1	802.11g	2437.00	15.18	500	Pass
NVNT	ANT1	802.11g	2462.00	14.93	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	16.28	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	16.06	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	16.01	500	Pass



-6dB_Bandwidth_NVNT_ANT1_802_11b_2412



-6dB_Bandwidth_NVNT_ANT1_802_11b_2437



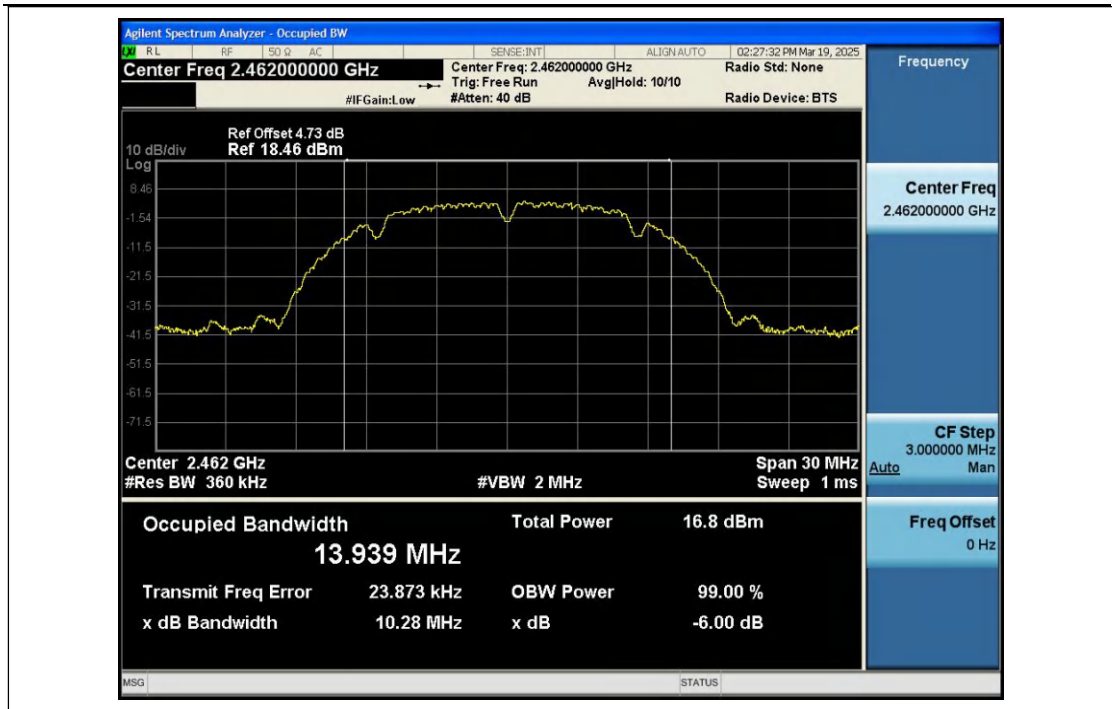
-6dB_Bandwidth_NVNT_ANT1_802_11b_2462

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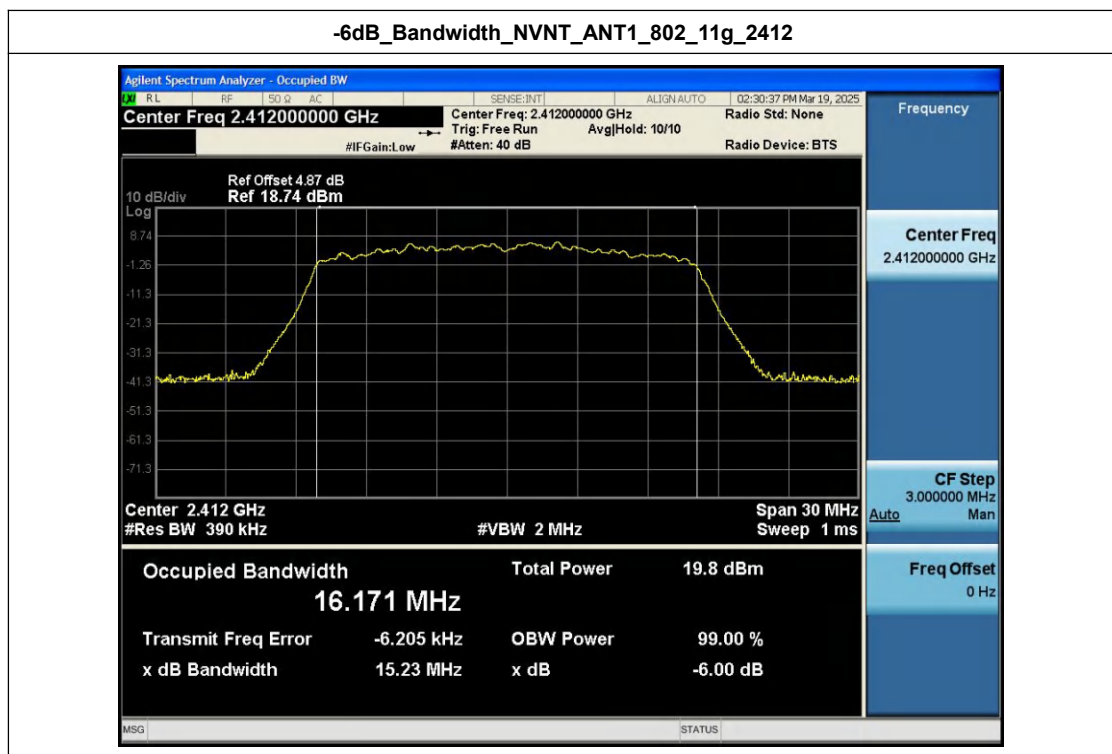
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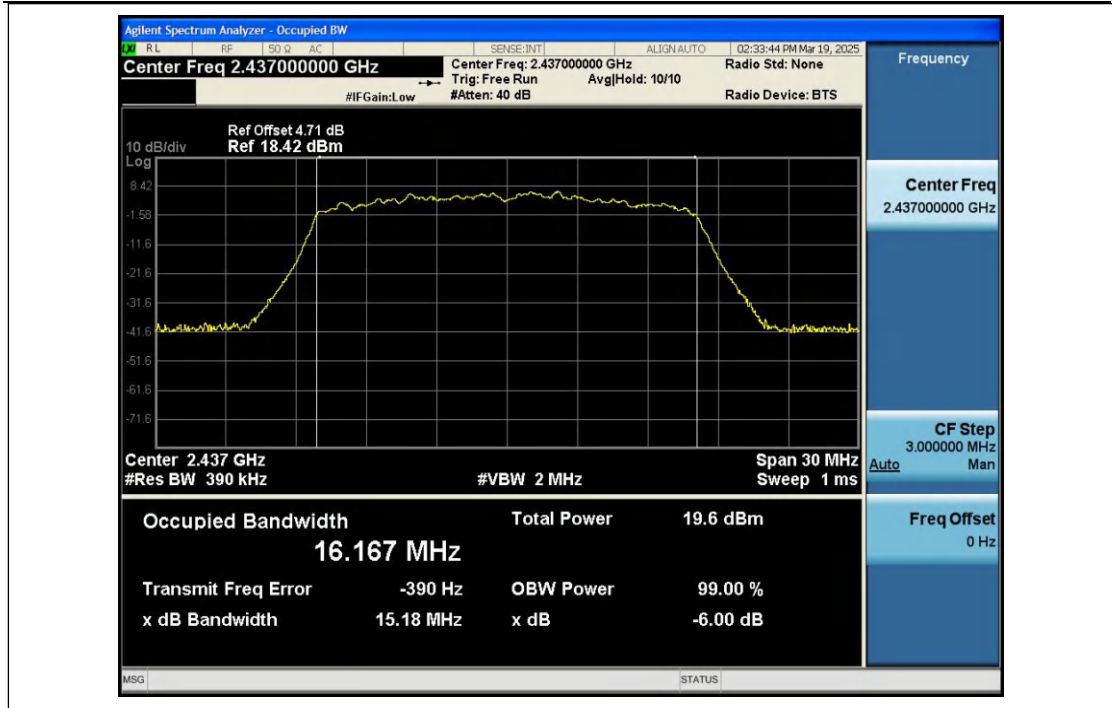
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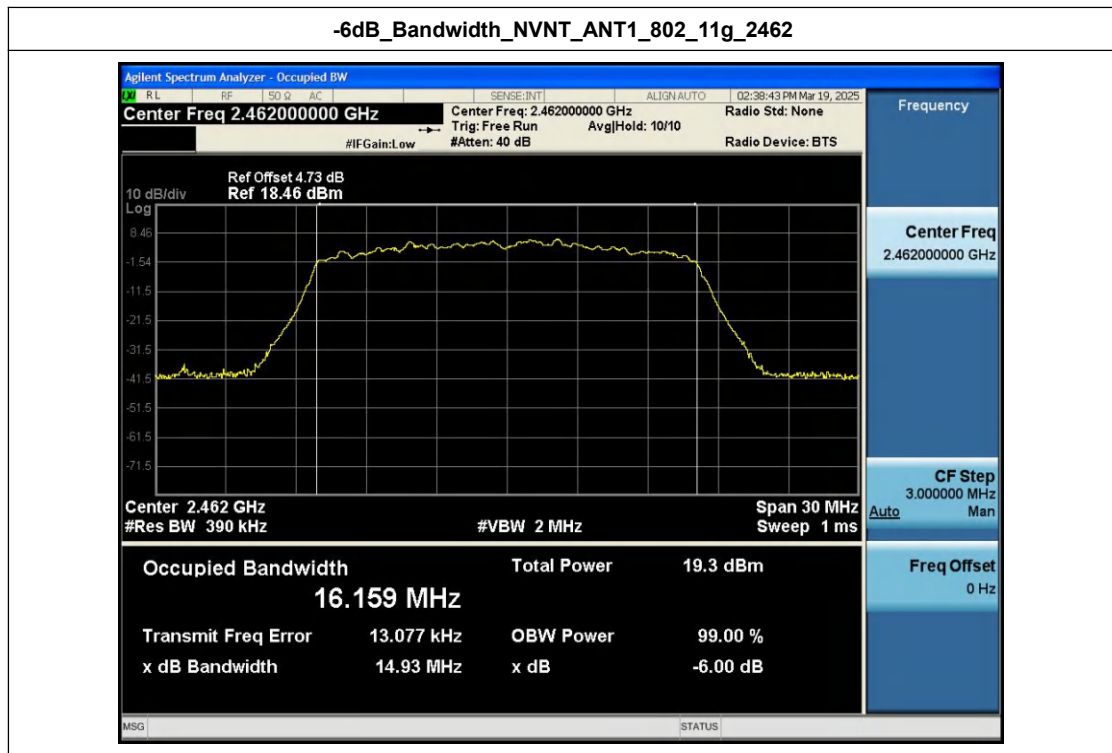
-6dB_Bandwidth_NVNT_ANT1_802_11g_2412



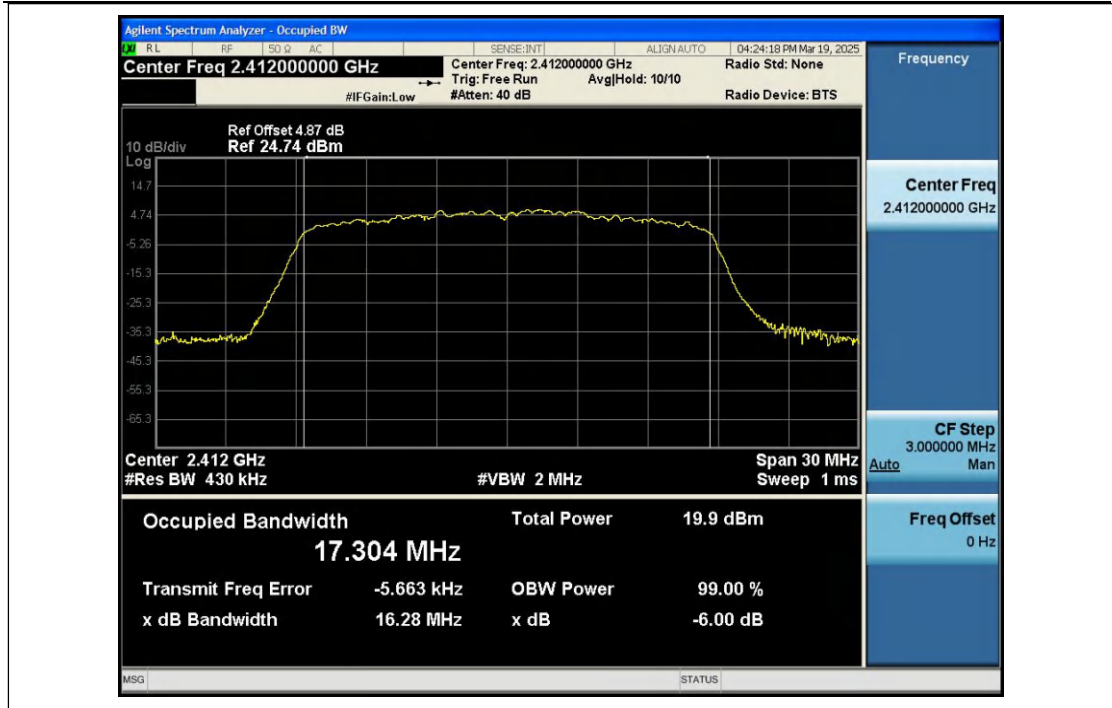
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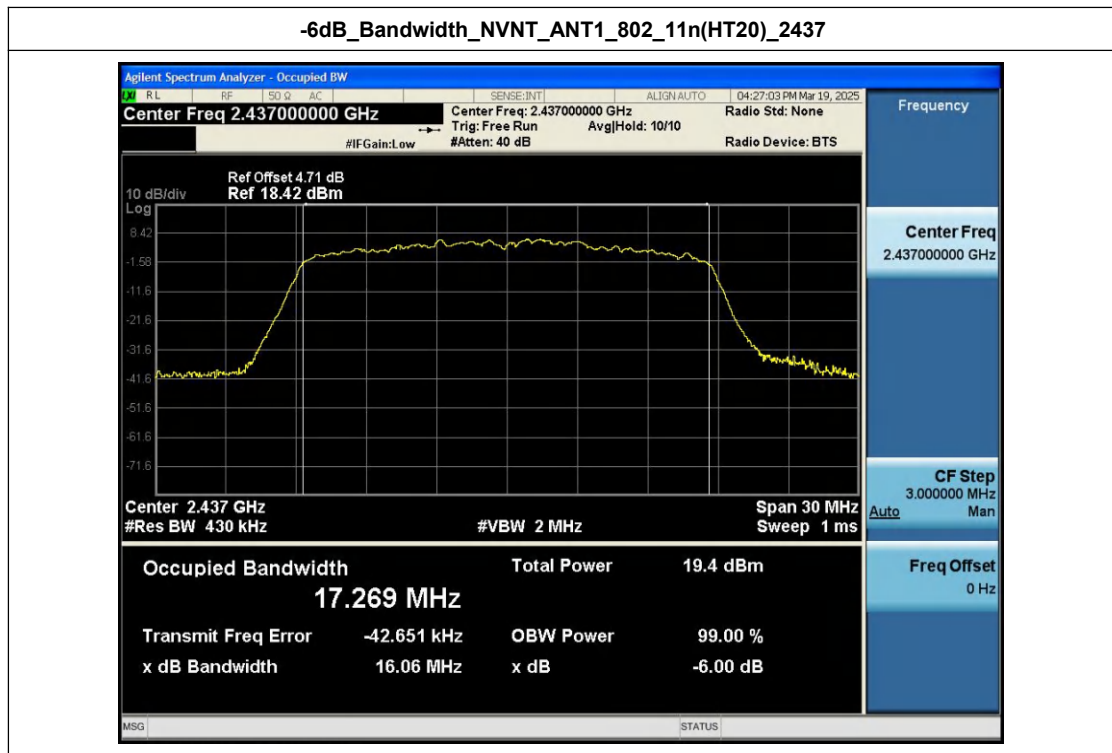
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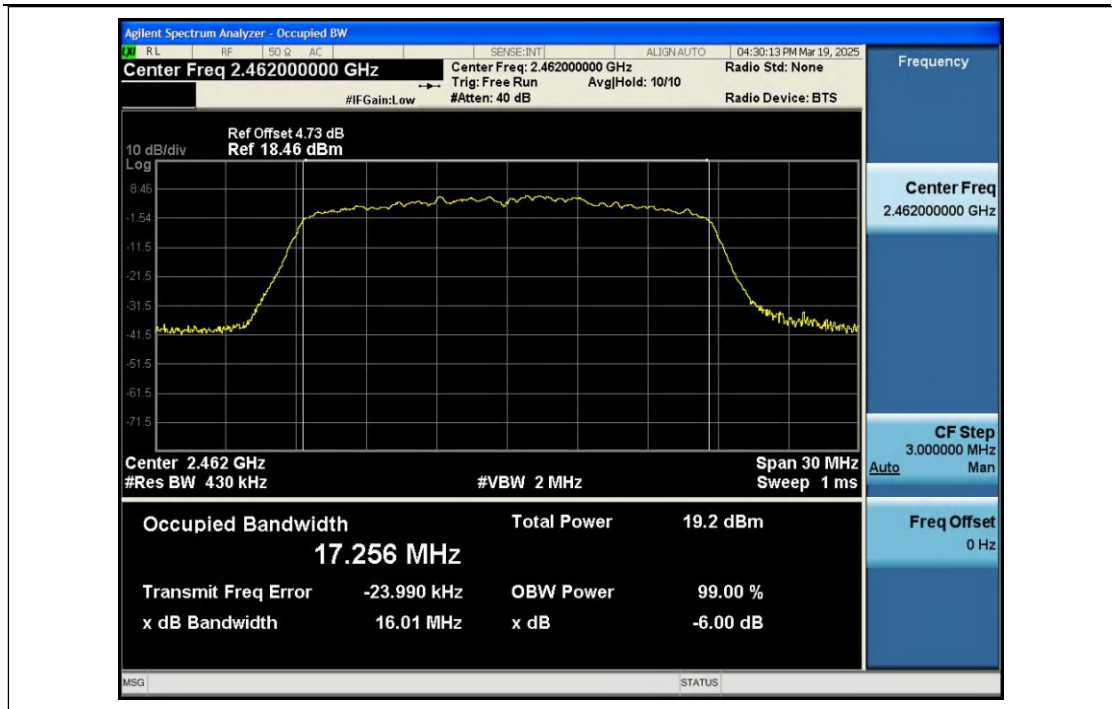
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



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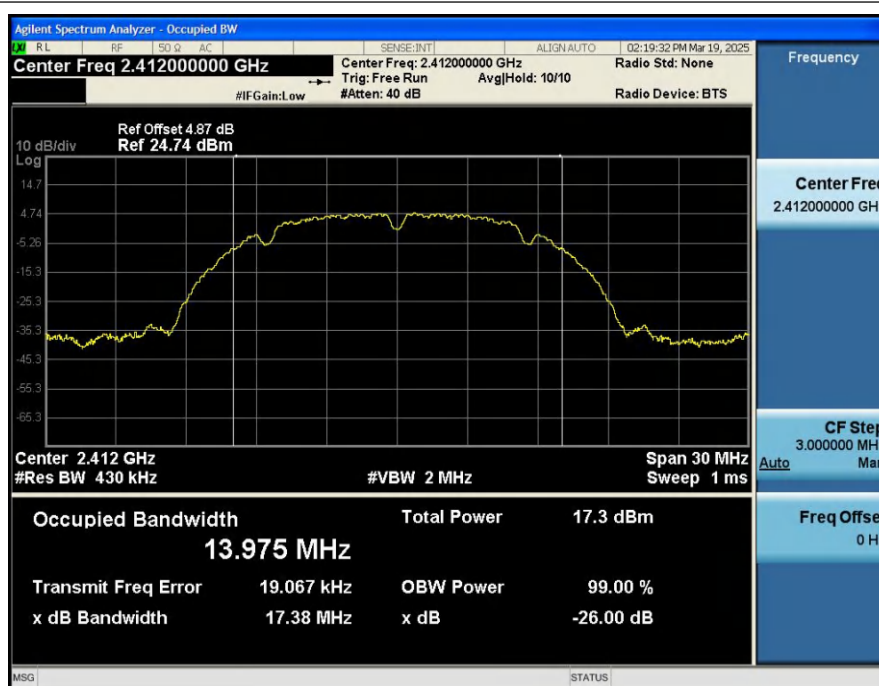
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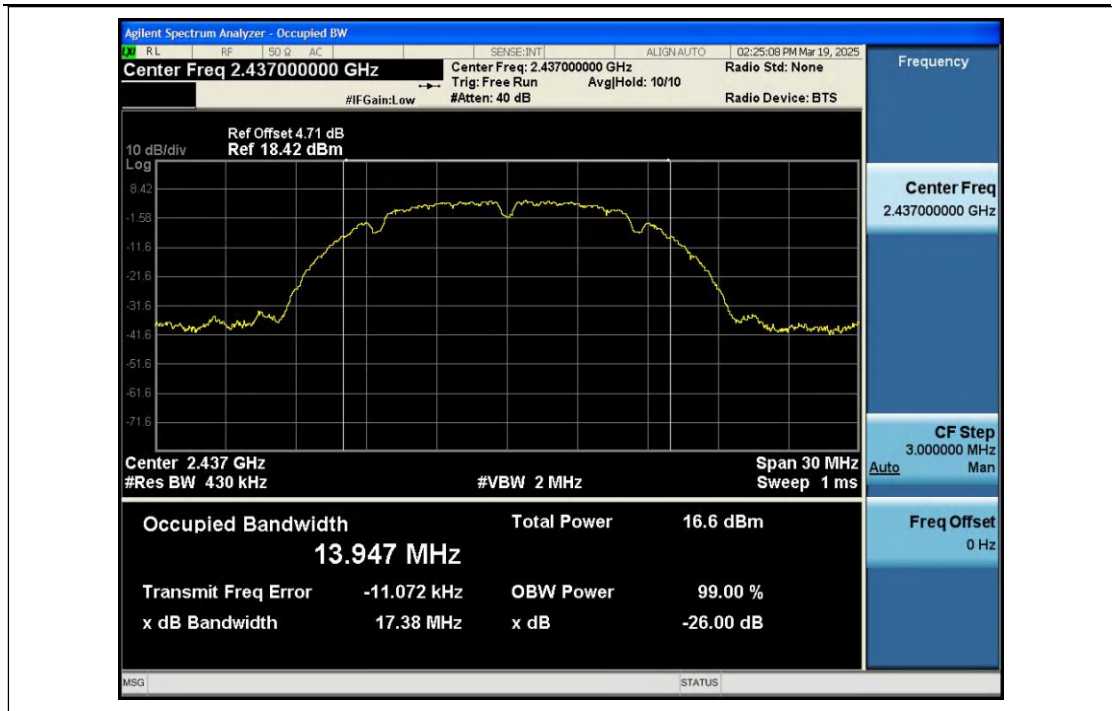
Appendix B: 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%BW(MHz)
NVNT	ANT1	802.11b	2412.00	13.975
NVNT	ANT1	802.11b	2437.00	13.947
NVNT	ANT1	802.11b	2462.00	13.935
NVNT	ANT1	802.11g	2412.00	16.195
NVNT	ANT1	802.11g	2437.00	16.190
NVNT	ANT1	802.11g	2462.00	16.178
NVNT	ANT1	802.11n(HT20)	2412.00	17.317
NVNT	ANT1	802.11n(HT20)	2437.00	17.279
NVNT	ANT1	802.11n(HT20)	2462.00	17.272

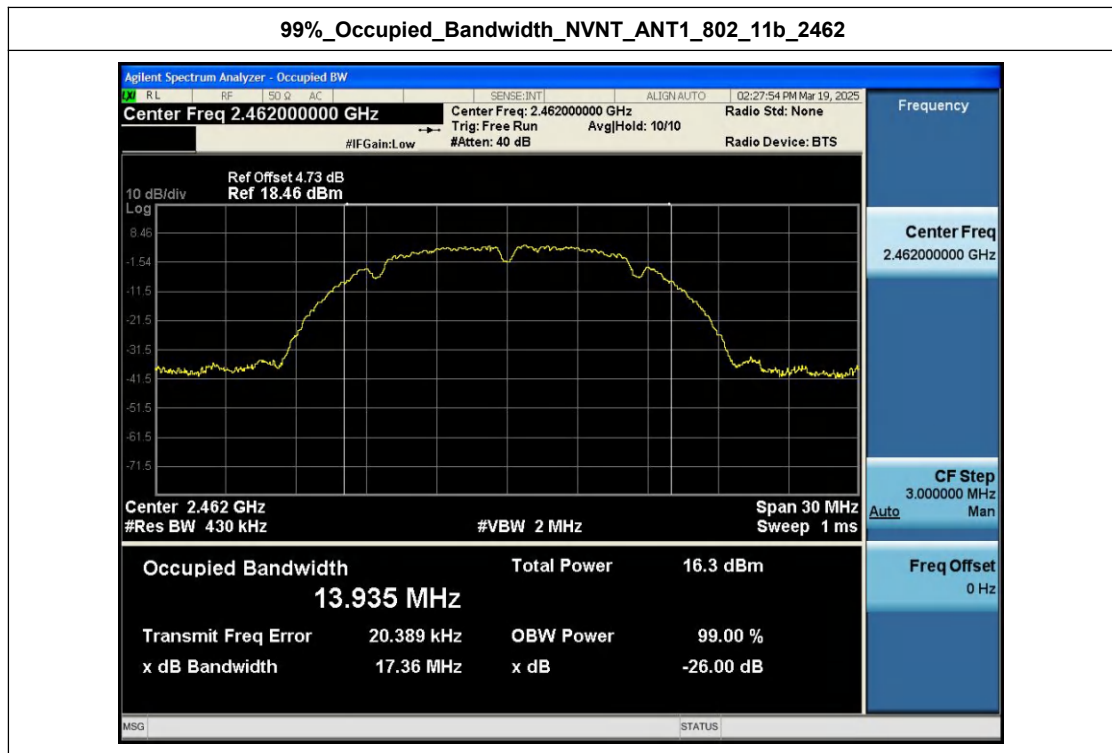
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99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2437

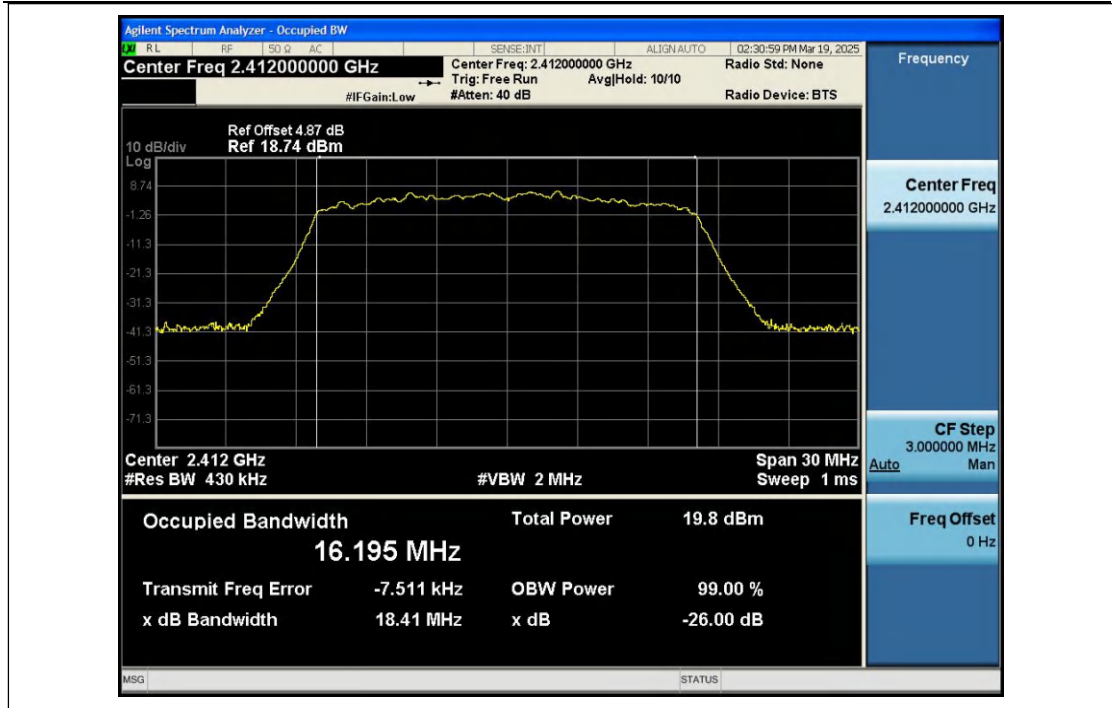


99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2462

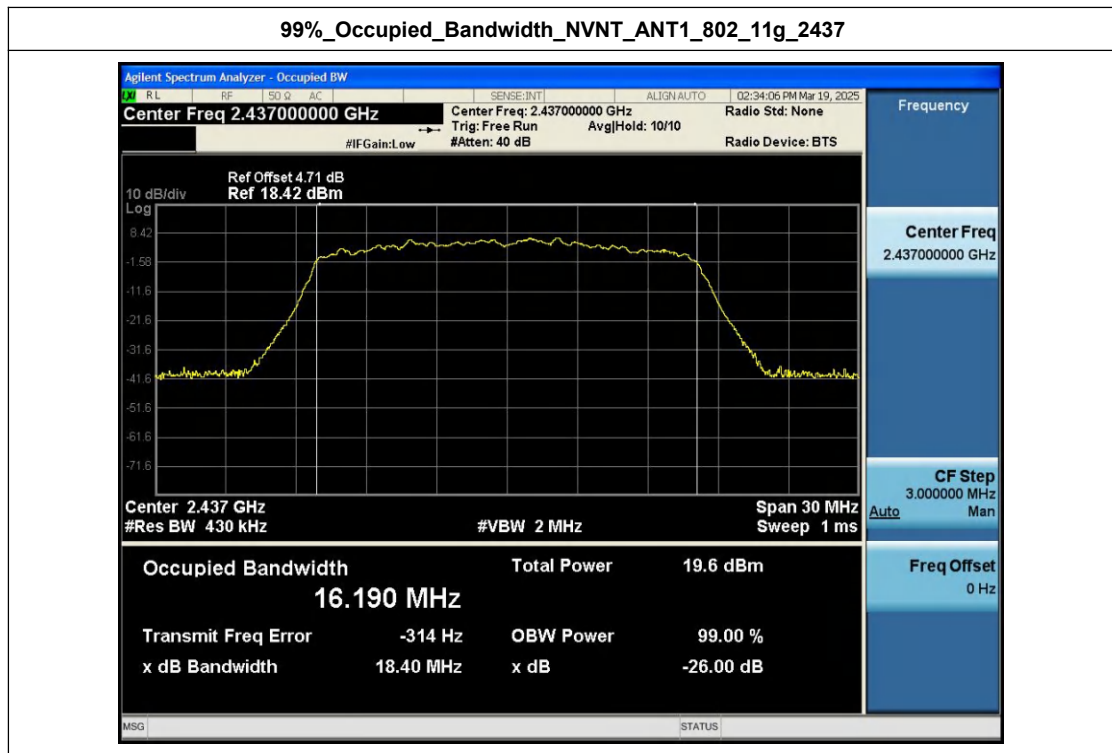


99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2412

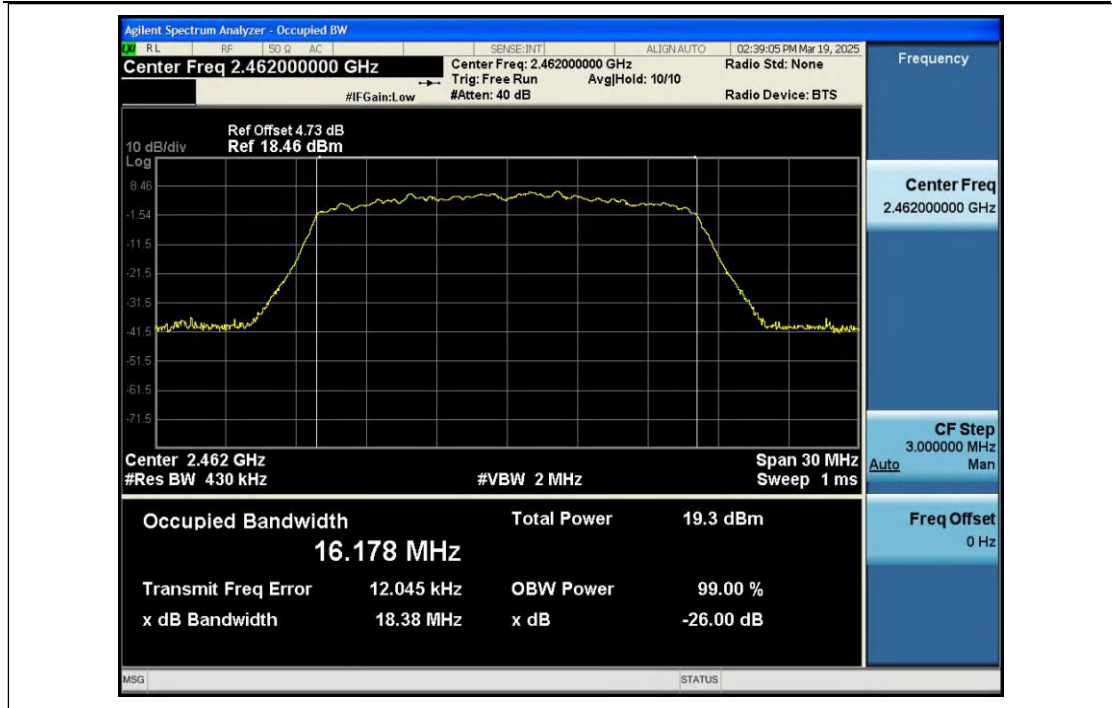




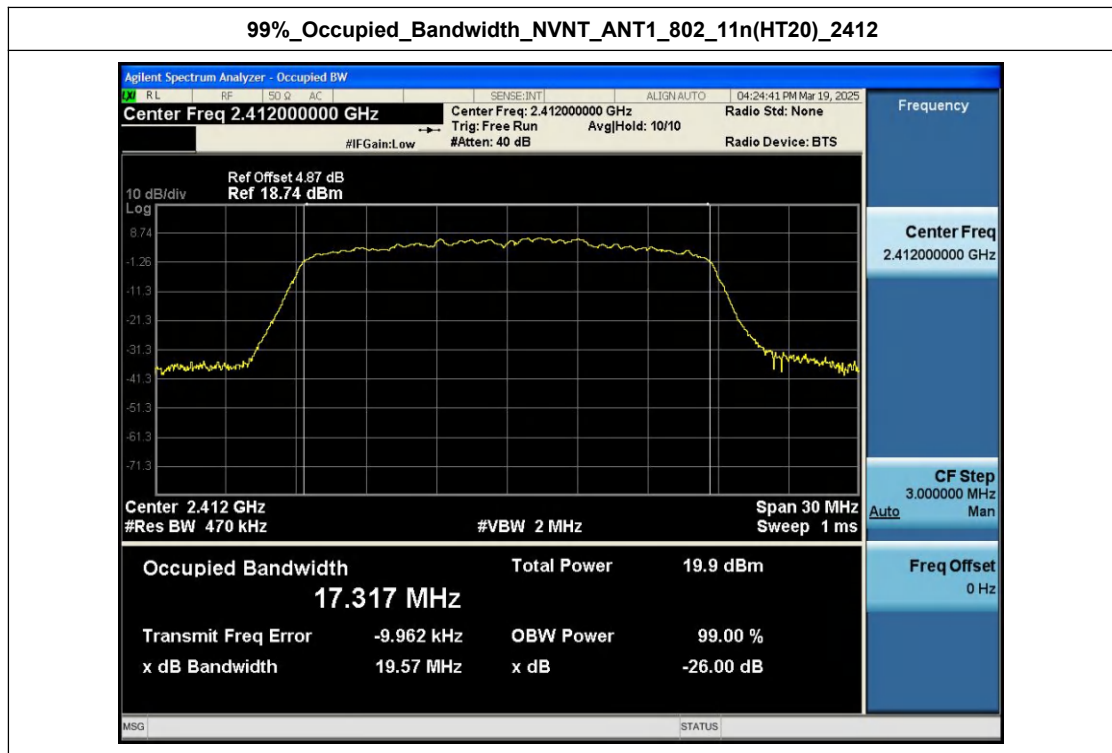
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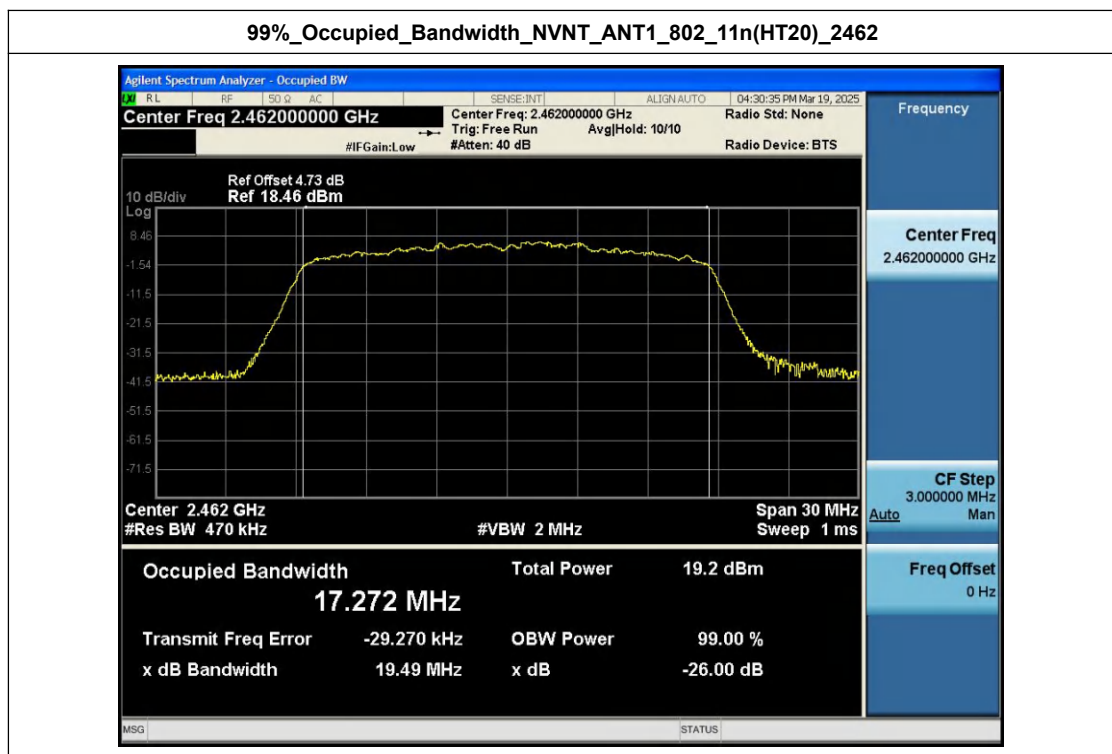
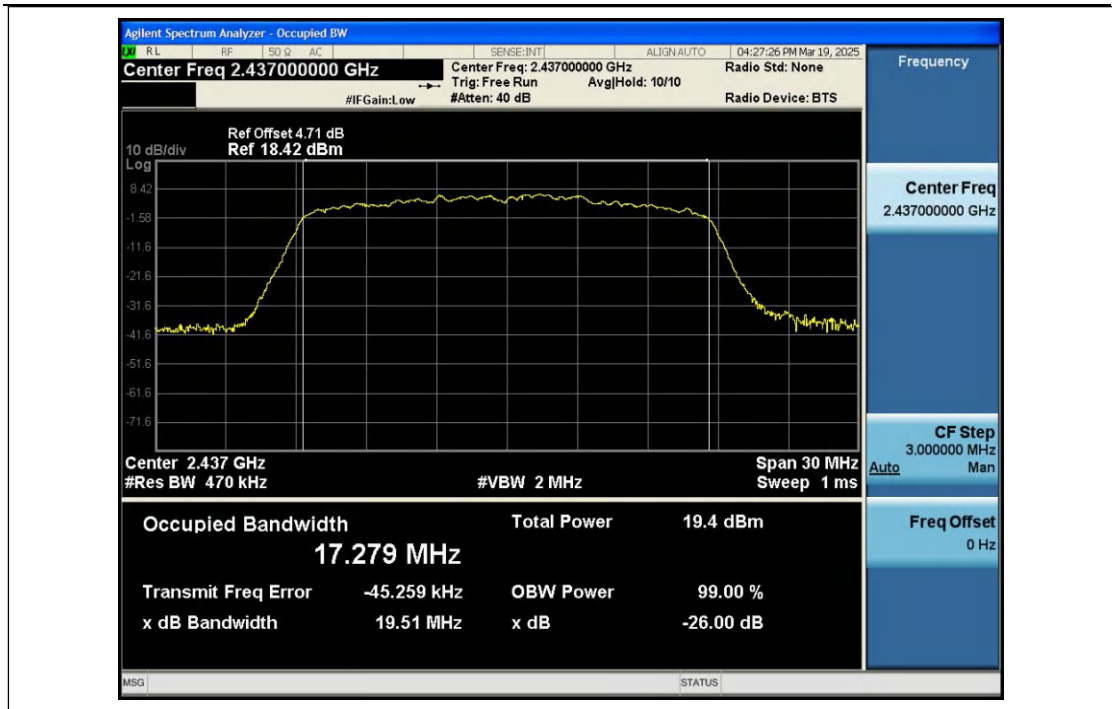
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2462



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



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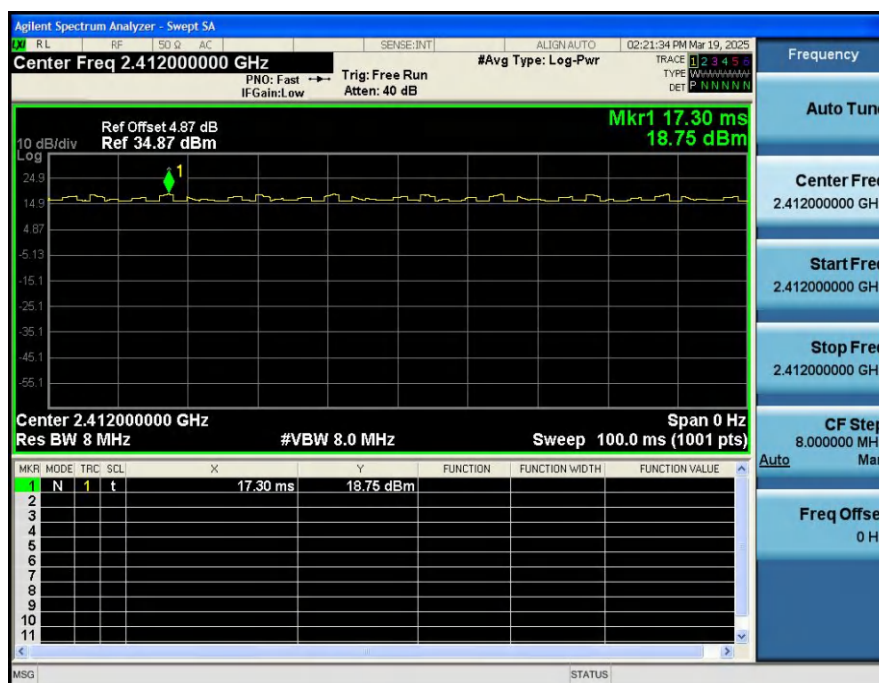


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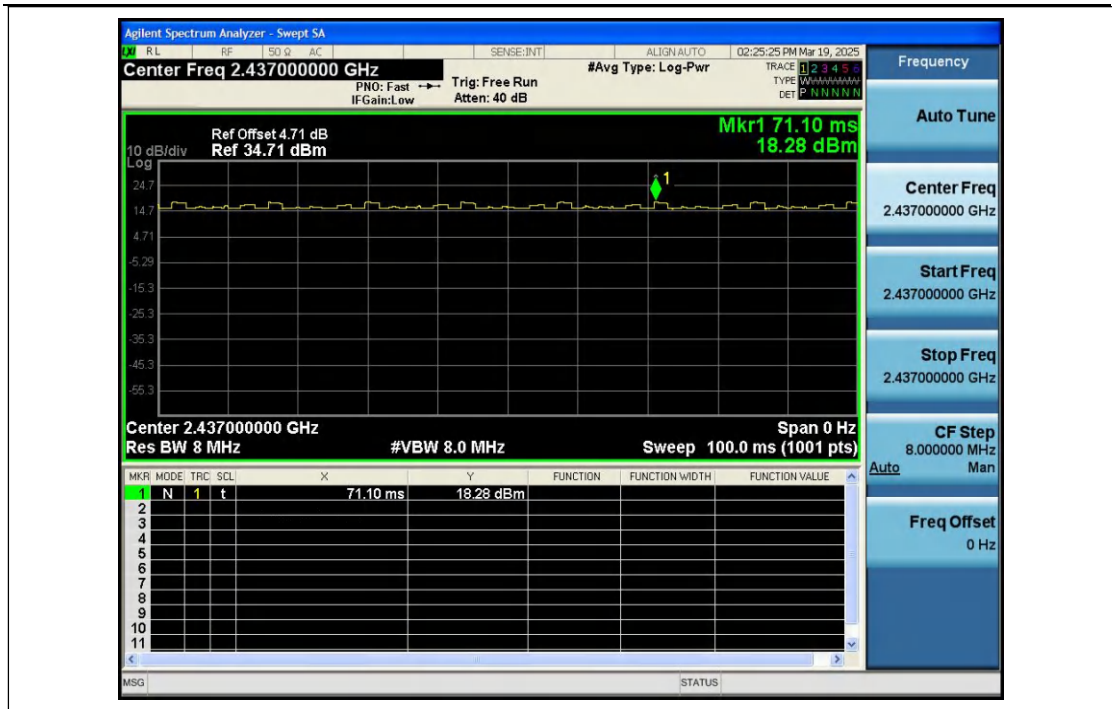
Appendix C: Duty Cycle

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

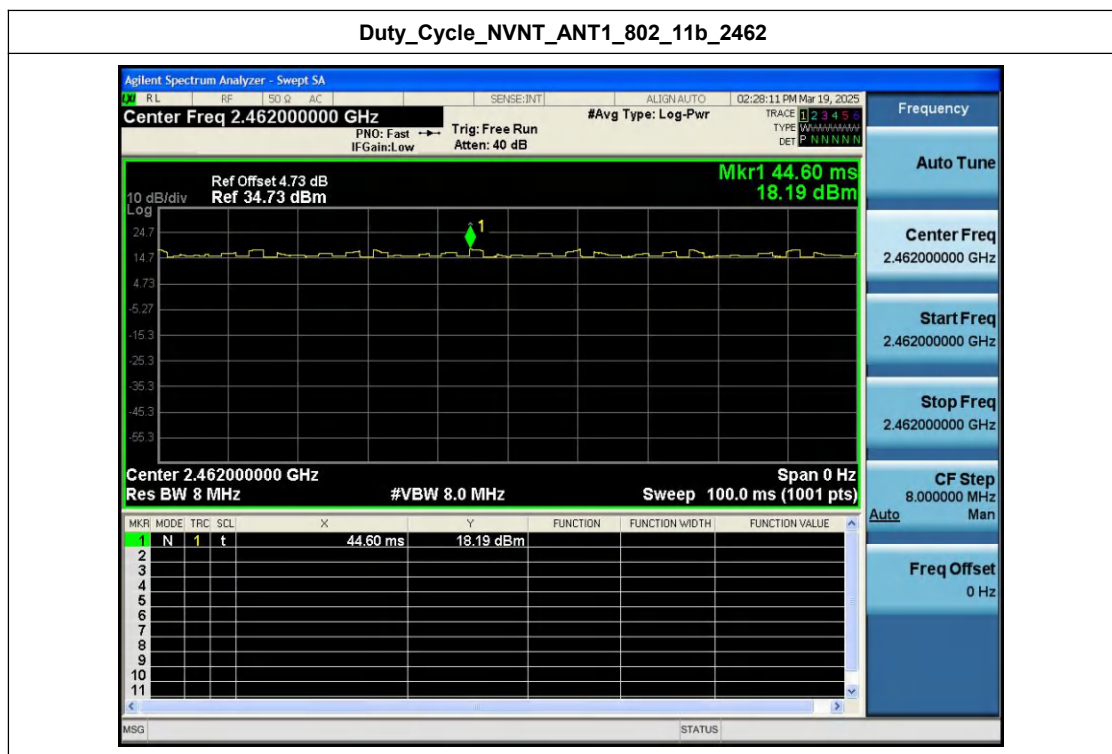
Duty_Cycle_NVNT_ANT1_802_11b_2412



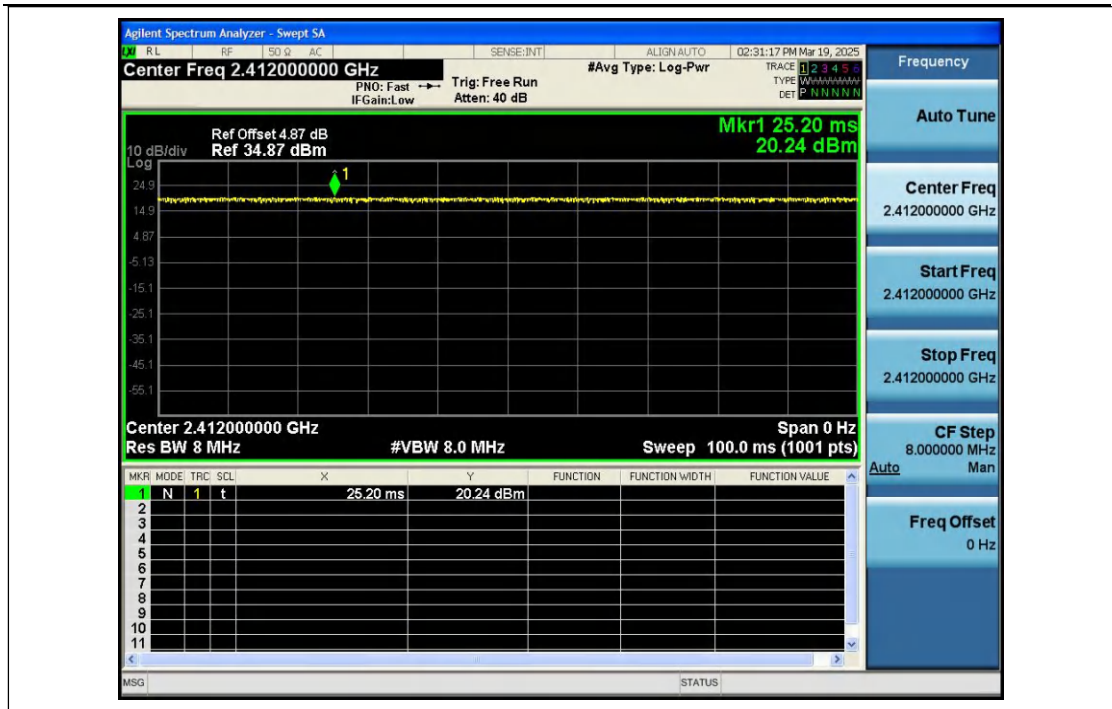
Duty_Cycle_NVNT_ANT1_802_11b_2437



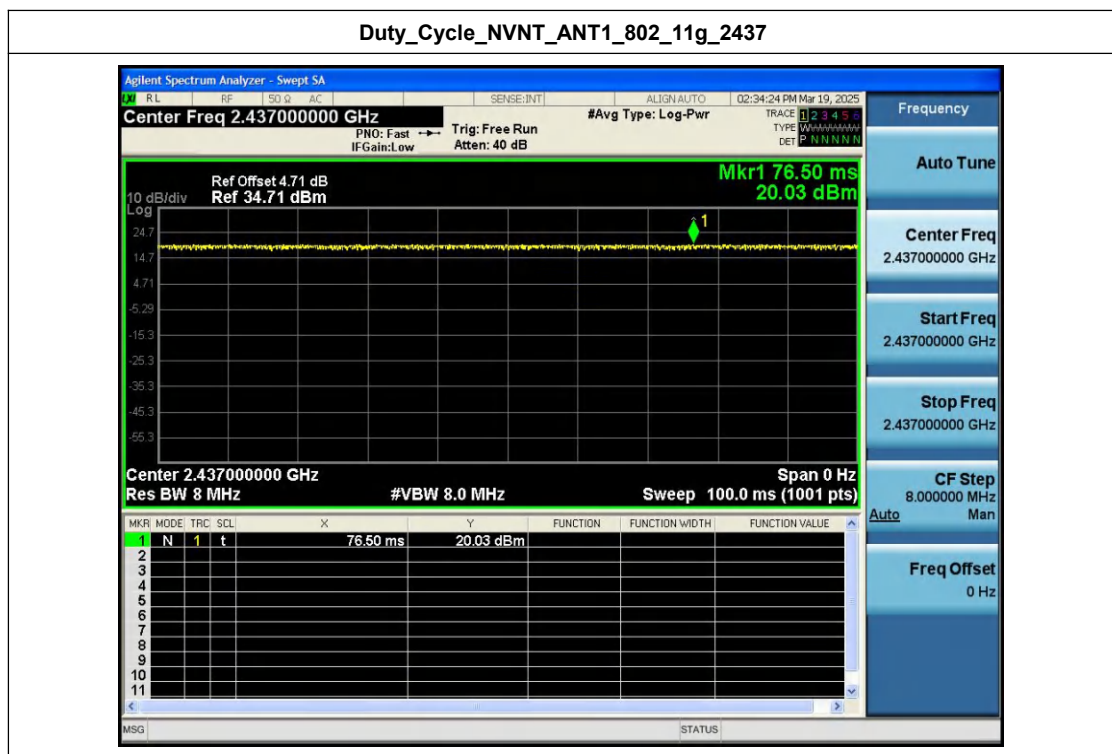
Duty_Cycle_NVNT_ANT1_802_11b_2462



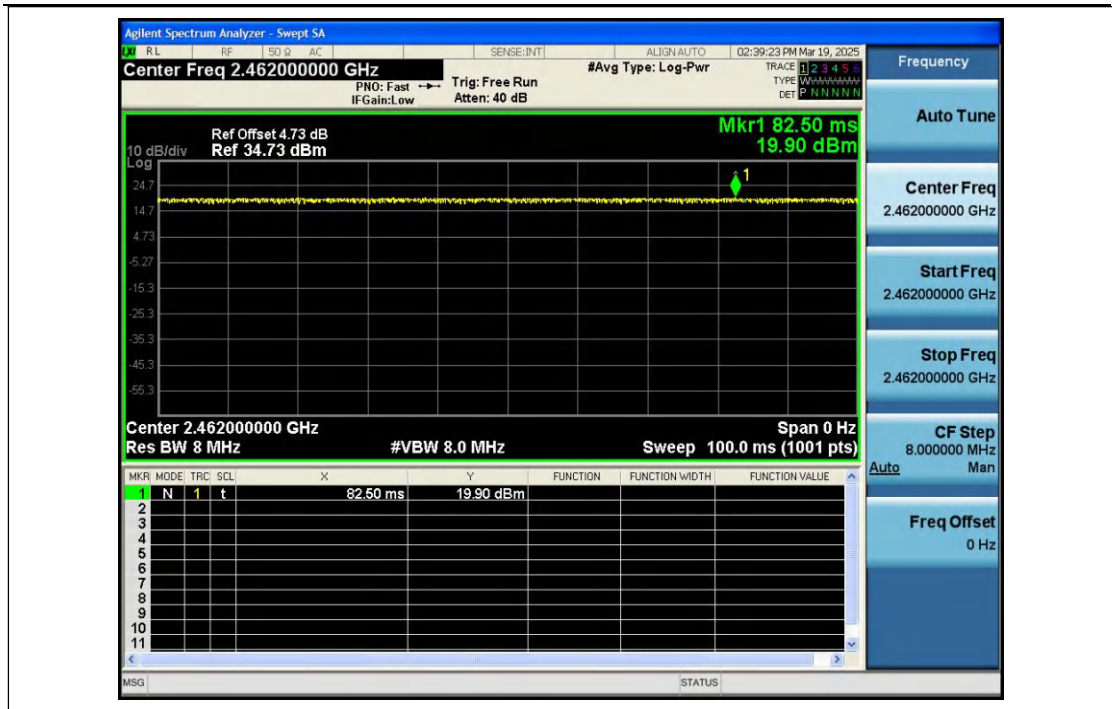
Duty_Cycle_NVNT_ANT1_802_11g_2412



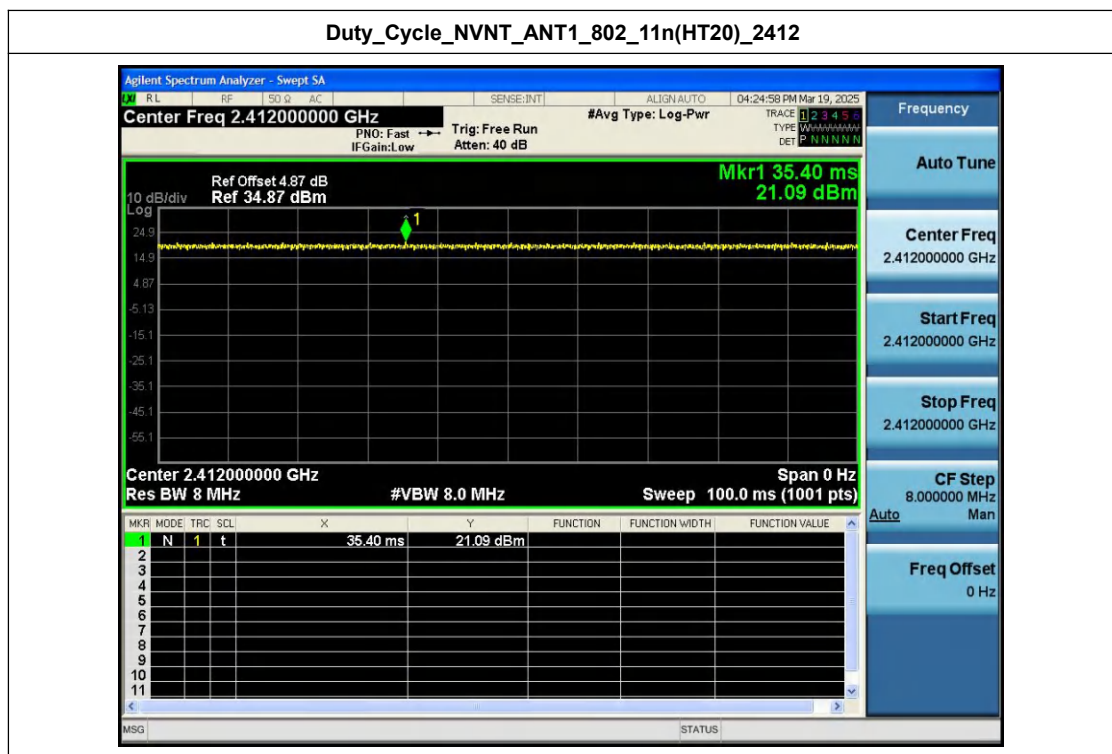
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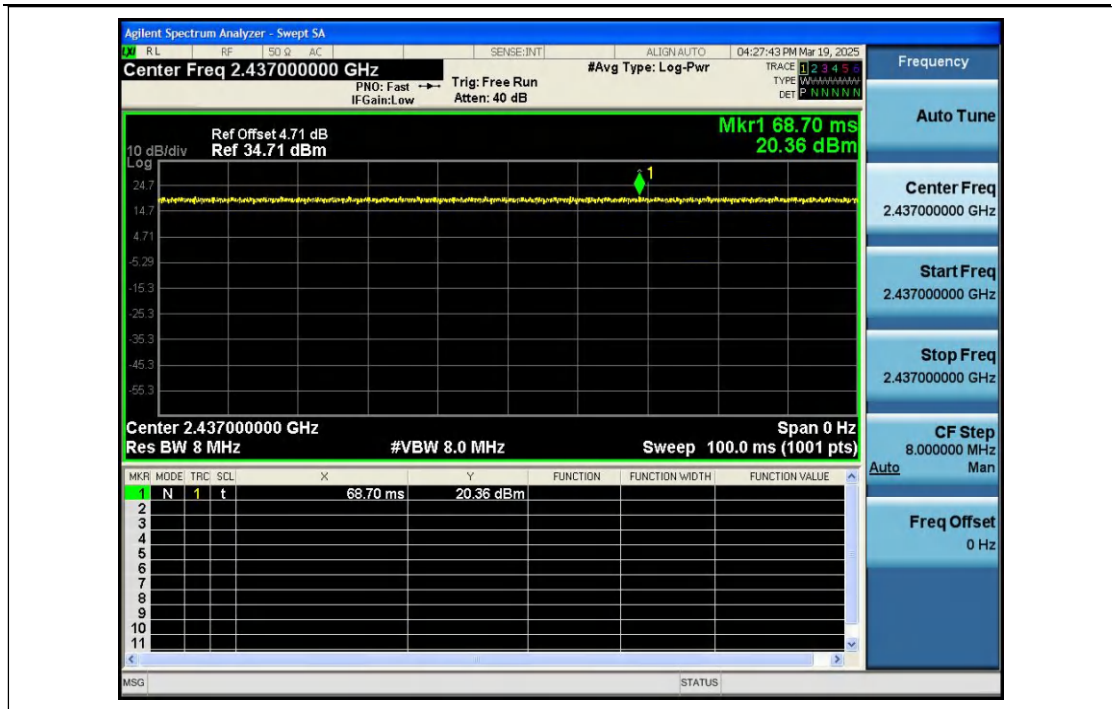
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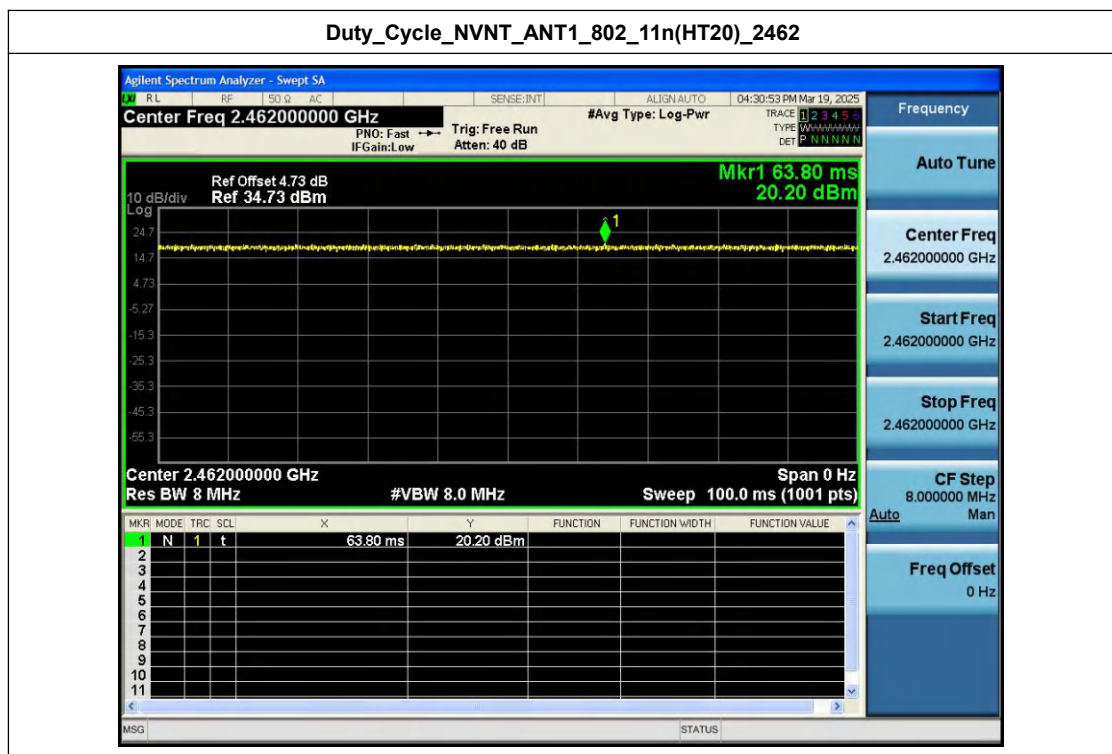
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462



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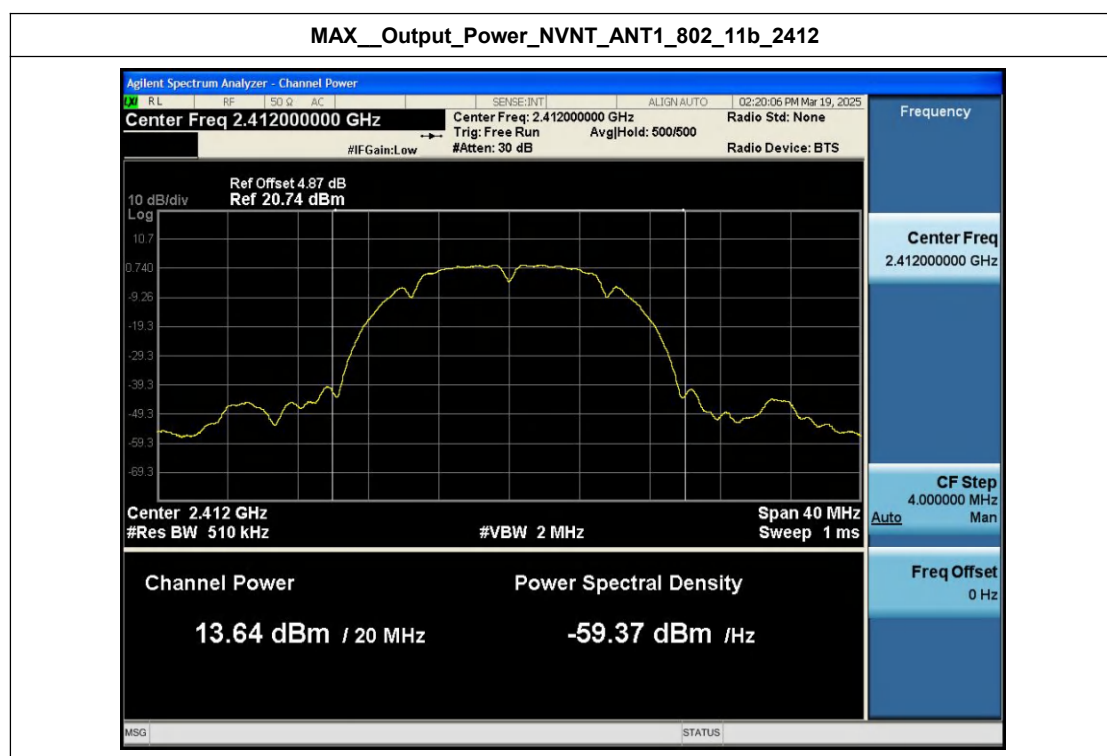
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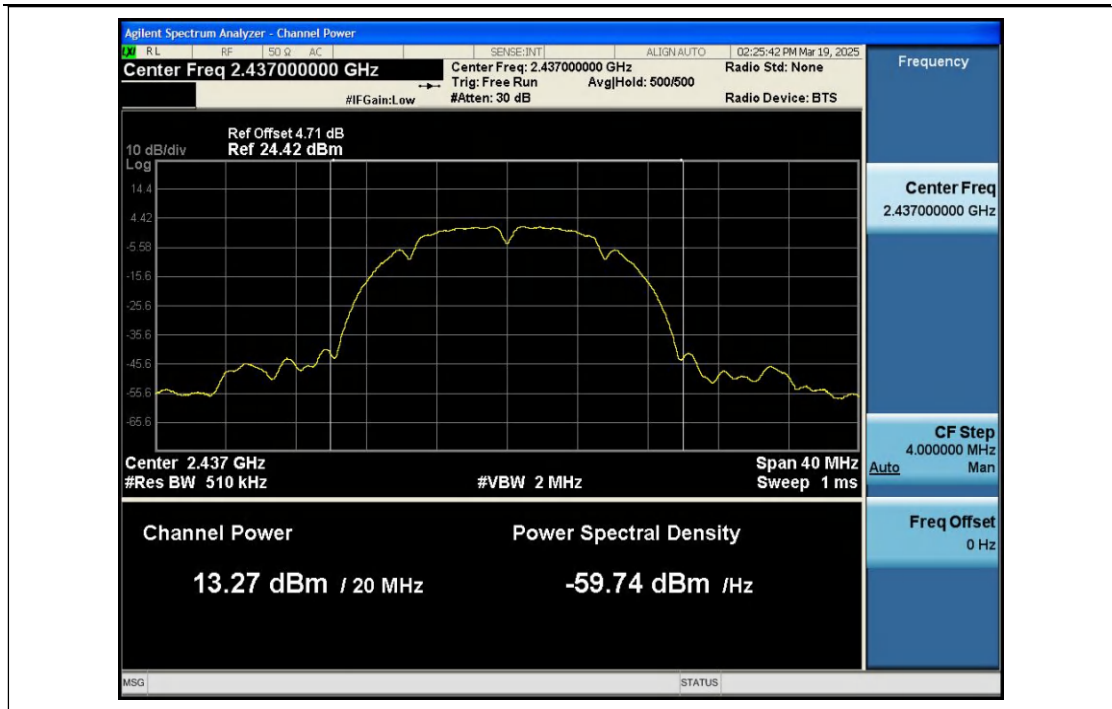
Appendix D: MAX. Output Power

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	13.64	0.00	13.64	30	Pass
NVNT	ANT1	802.11b	2437.00	RMS	13.27	0.00	13.27	30	Pass
NVNT	ANT1	802.11b	2462.00	RMS	12.89	0.00	12.89	30	Pass
NVNT	ANT1	802.11g	2412.00	RMS	13.13	0.00	13.13	30	Pass
NVNT	ANT1	802.11g	2437.00	RMS	12.93	0.00	12.93	30	Pass
NVNT	ANT1	802.11g	2462.00	RMS	12.77	0.00	12.77	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	RMS	13.11	0.00	13.11	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	RMS	12.78	0.00	12.78	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	RMS	12.58	0.00	12.58	30	Pass

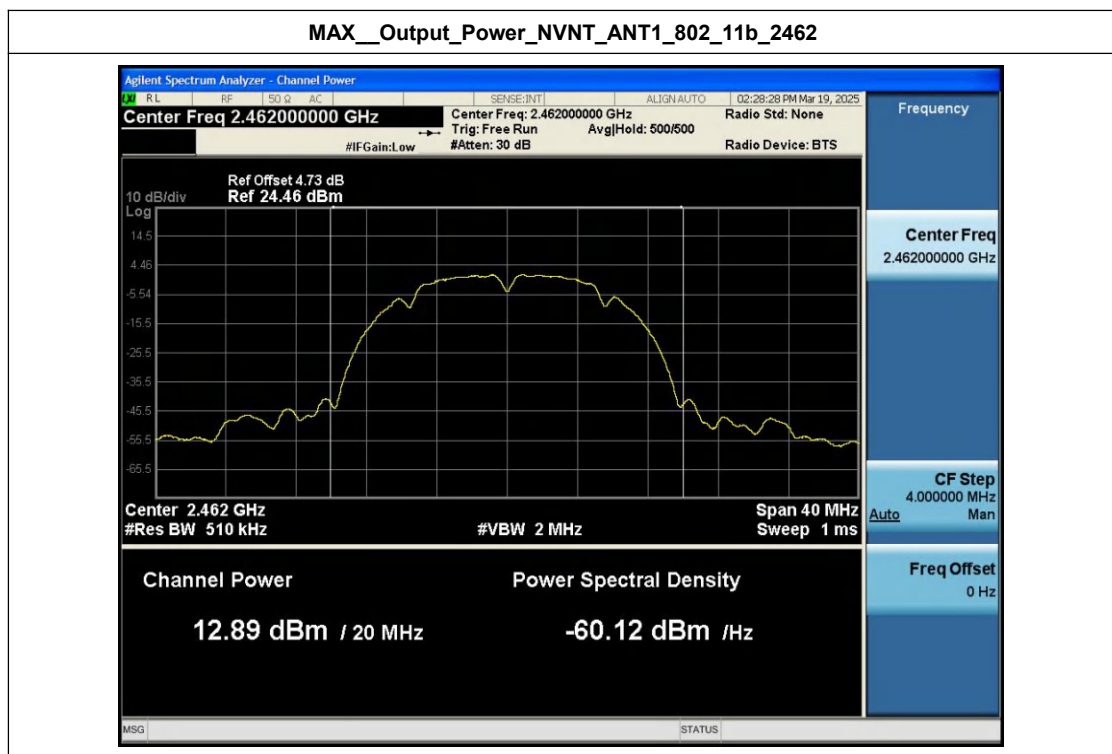
Note: 1.The cable loss are compensated in the graph.



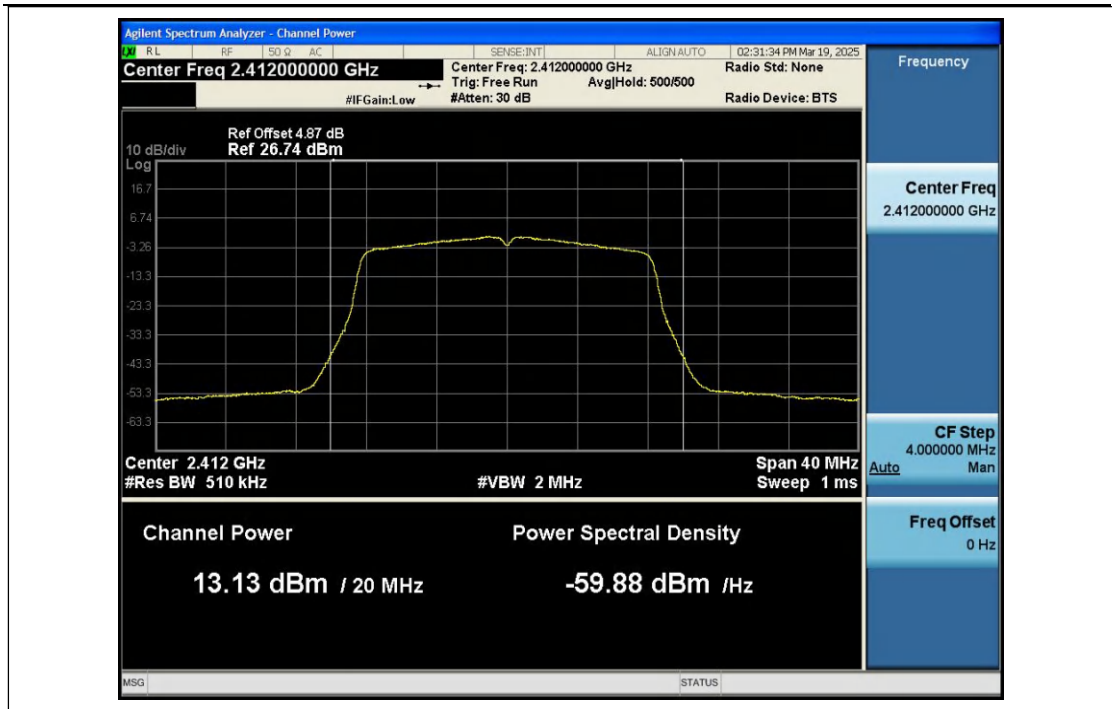
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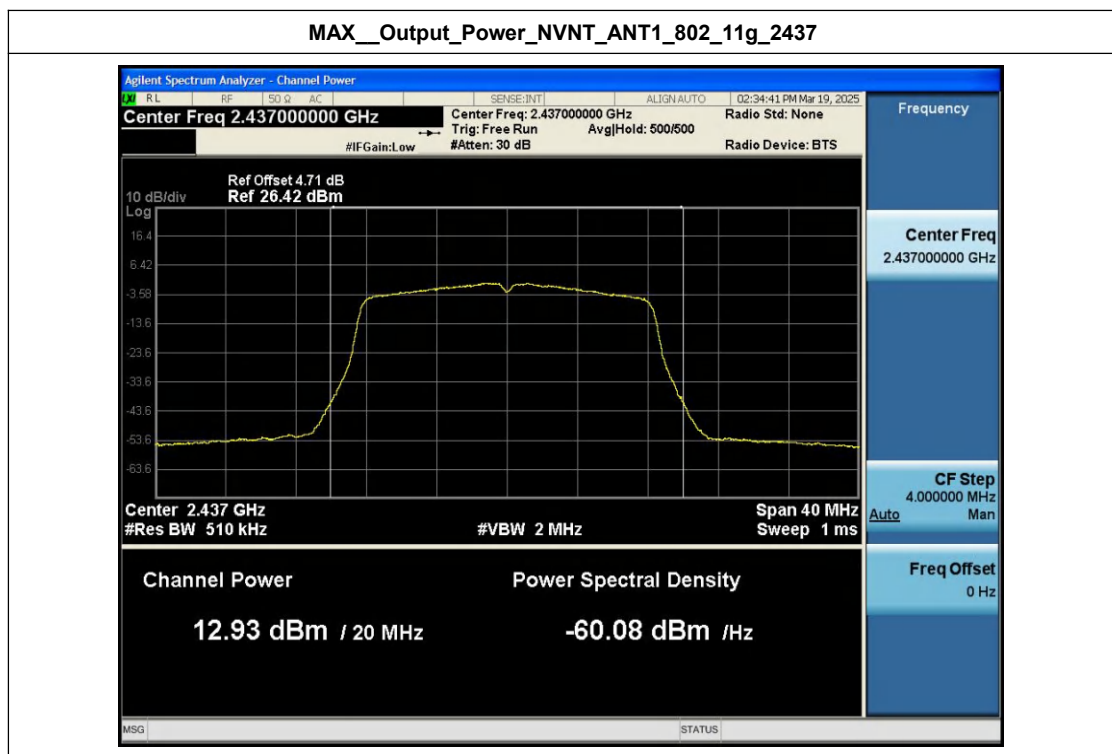
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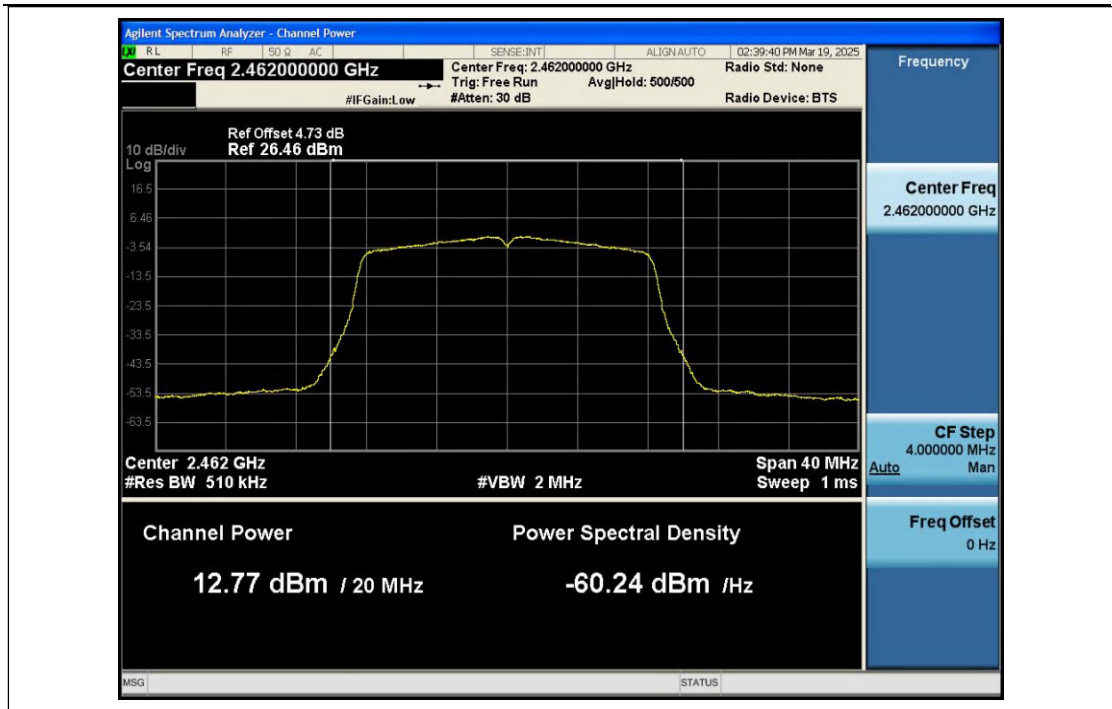
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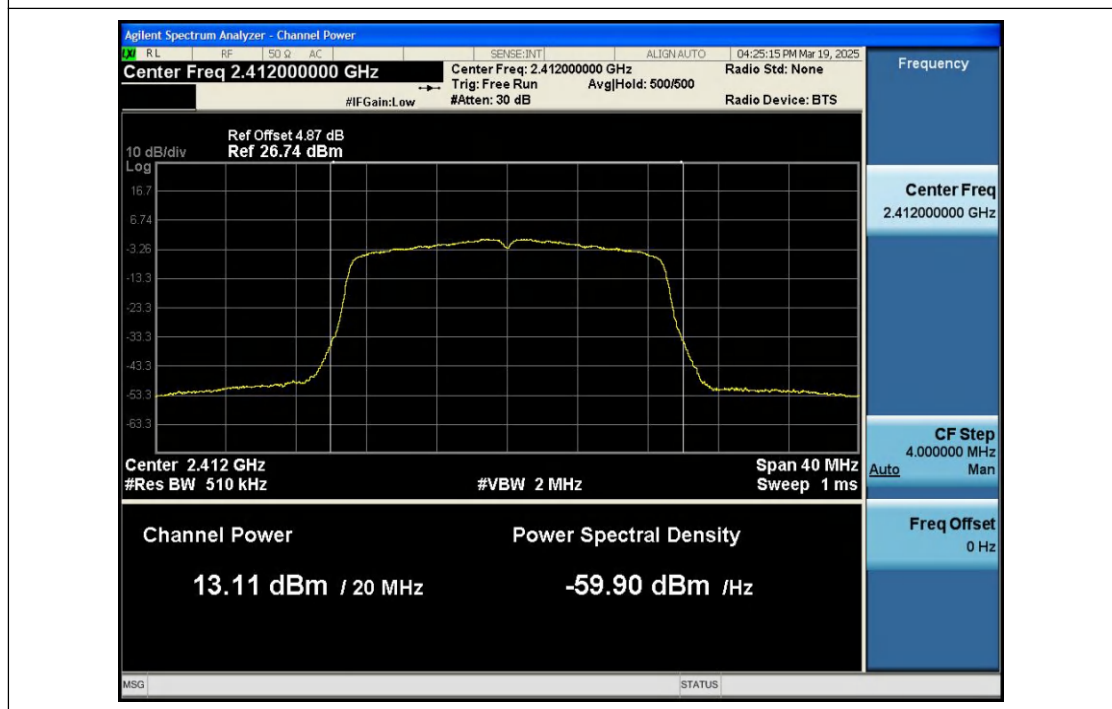
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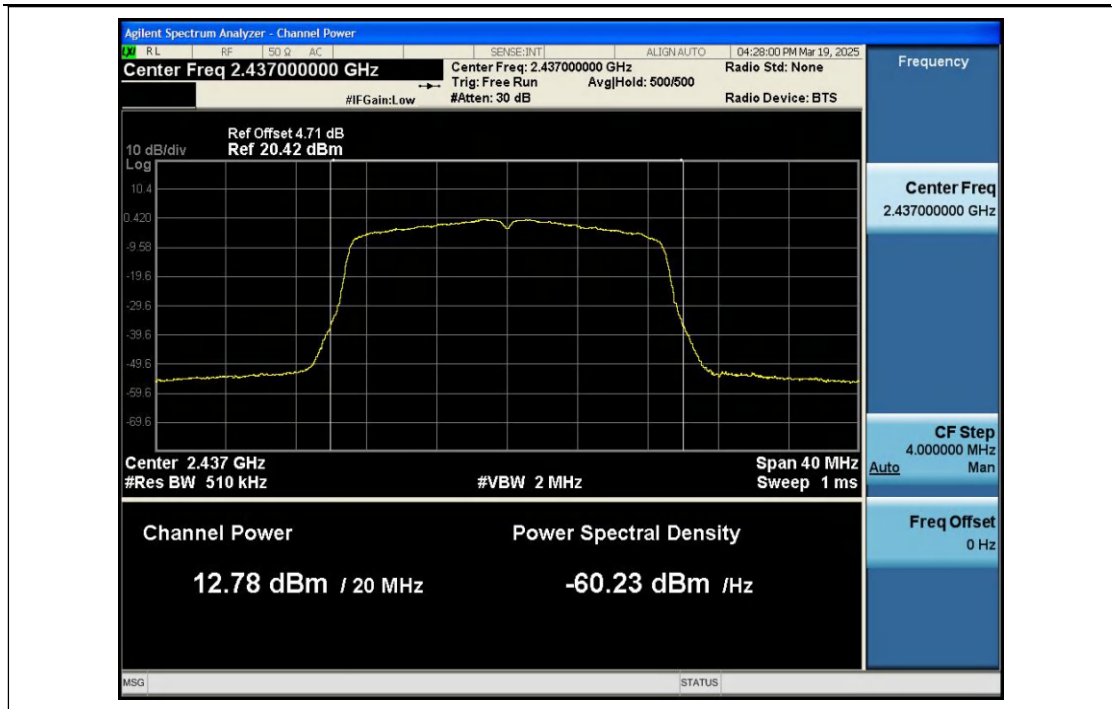
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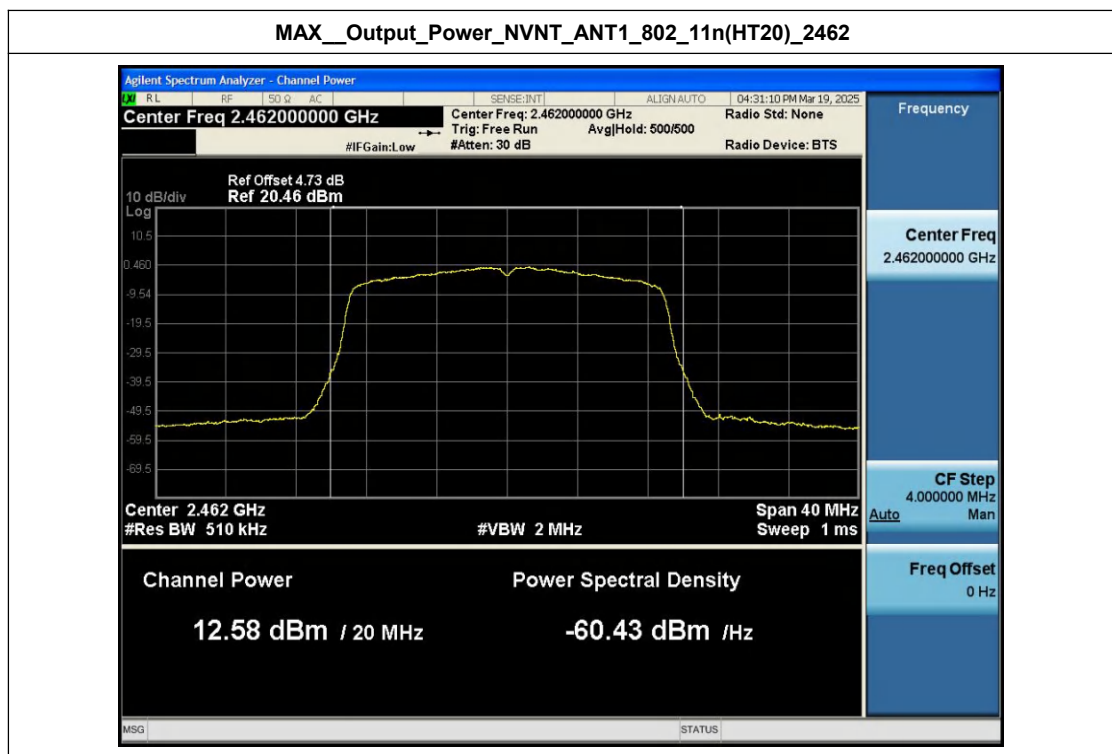
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MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2437



MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2462

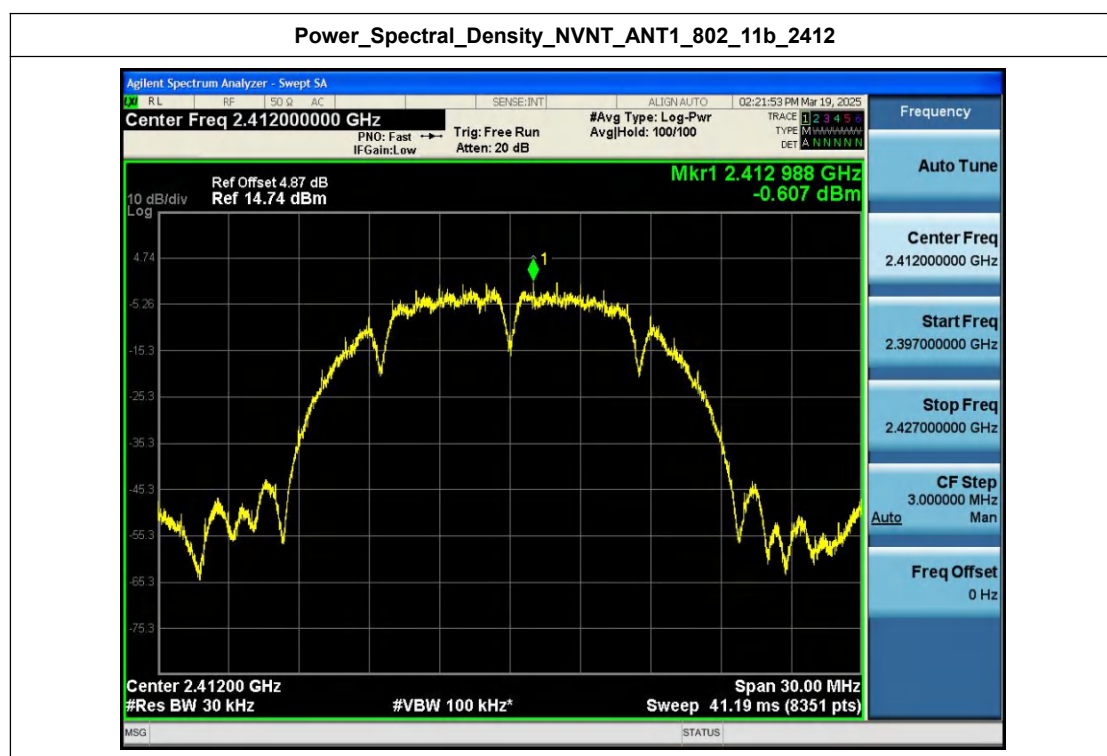


Appendix E: Power Spectral Density

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	-0.61	0.00	-10.00	-10.61	8	Pass
NVNT	ANT1	802.11b	2437.00	-1.10	0.00	-10.00	-11.10	8	Pass
NVNT	ANT1	802.11b	2462.00	-1.40	0.00	-10.00	-11.40	8	Pass
NVNT	ANT1	802.11g	2412.00	-1.05	0.00	-10.00	-11.05	8	Pass
NVNT	ANT1	802.11g	2437.00	-1.34	0.00	-10.00	-11.34	8	Pass
NVNT	ANT1	802.11g	2462.00	-1.45	0.00	-10.00	-11.45	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-1.57	0.00	-10.00	-11.57	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-1.83	0.00	-10.00	-11.83	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-1.90	0.00	-10.00	-11.90	8	Pass

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

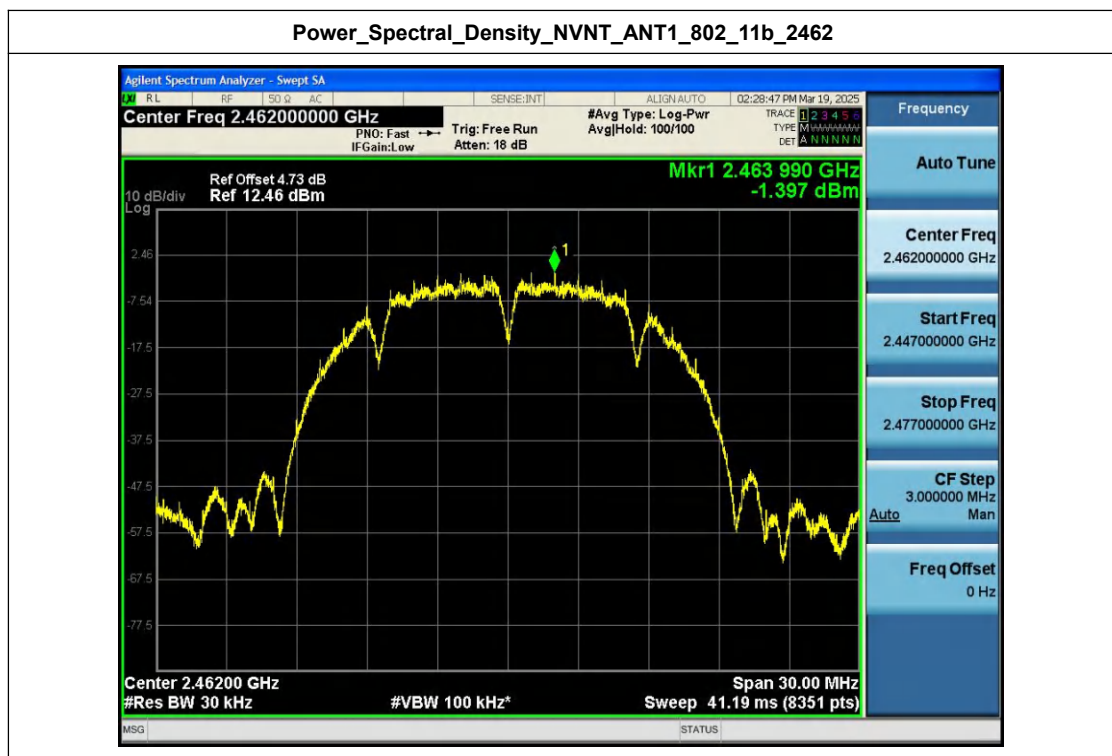
2.PSD(dBm/3kHz)= PSD(dBm/30kHz)- (10*log(30/3)).



Power_Spectral_Density_NVNT_ANT1_802_11b_2437



Power_Spectral_Density_NVNT_ANT1_802_11b_2462



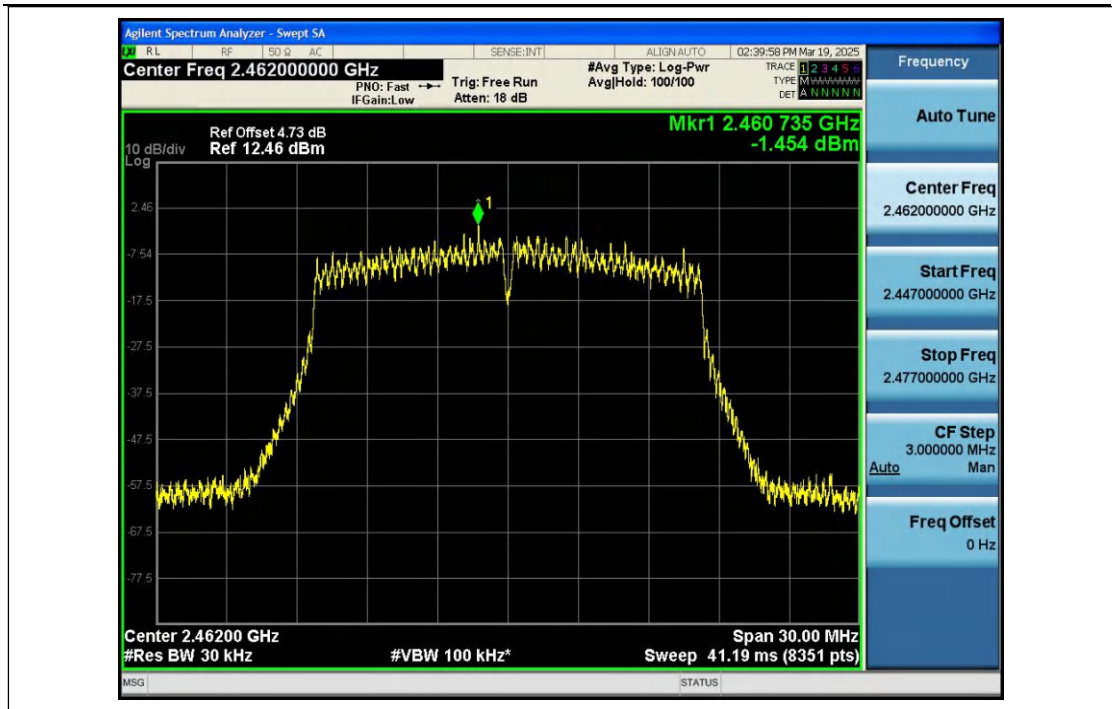
Power_Spectral_Density_NVNT_ANT1_802_11g_2412



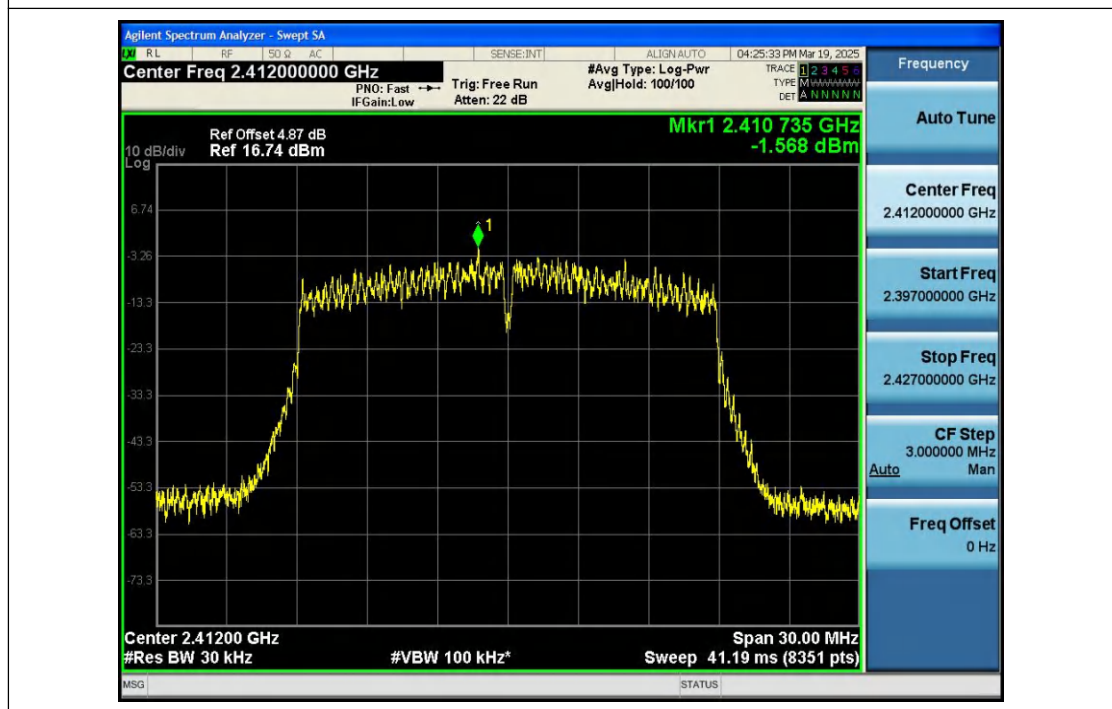
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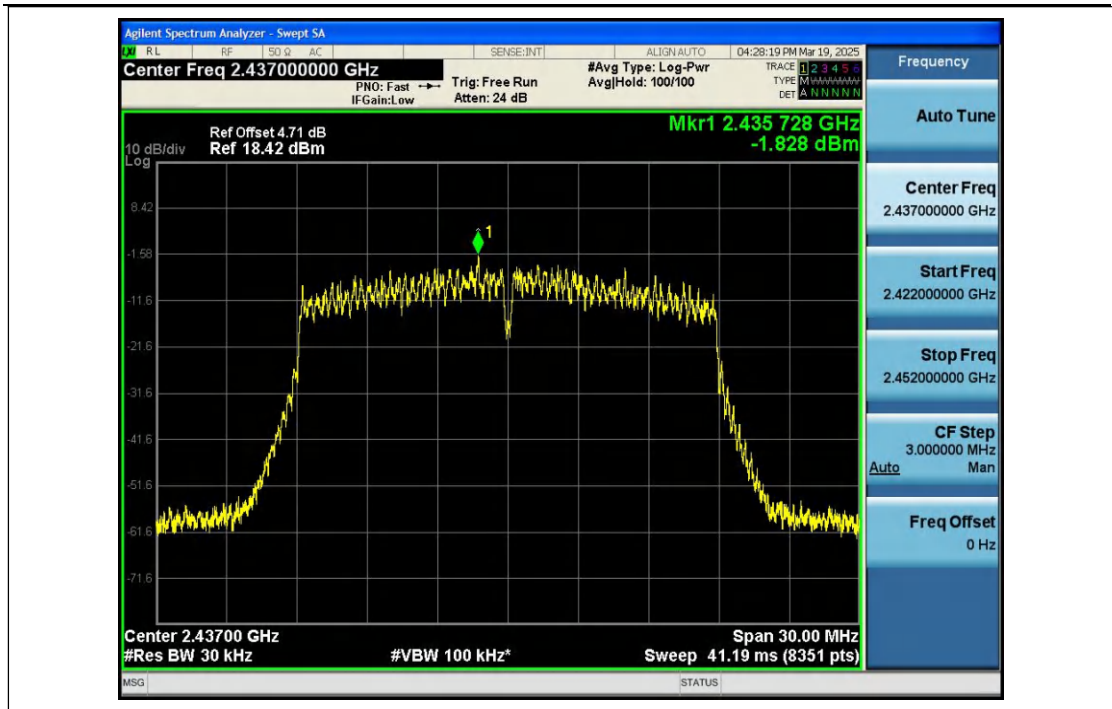
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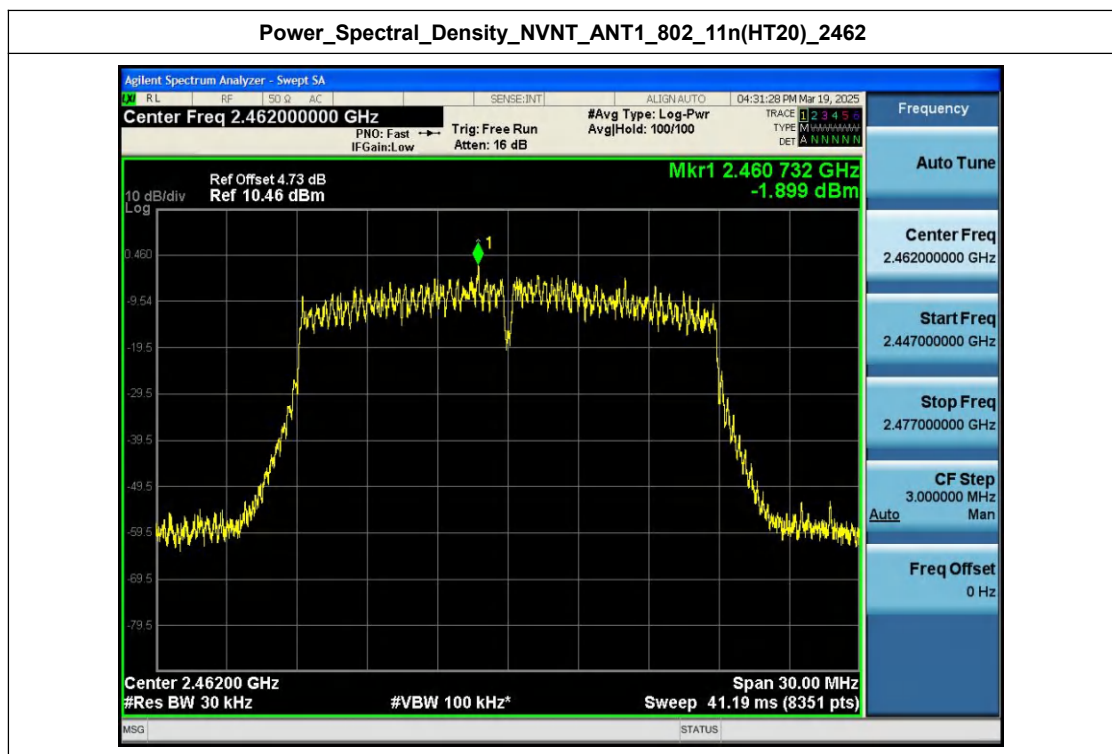
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Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437



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	3.638	-41.253	-26.362	Pass
NVNT	ANT1	802.11b	2462.00	2486.944	2.955	-51.947	-27.045	Pass
NVNT	ANT1	802.11g	2412.00	2397.360	3.674	-48.874	-26.326	Pass
NVNT	ANT1	802.11g	2462.00	2483.536	3.267	-52.279	-26.733	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.936	3.496	-45.159	-26.504	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2486.992	2.993	-51.667	-27.007	Pass

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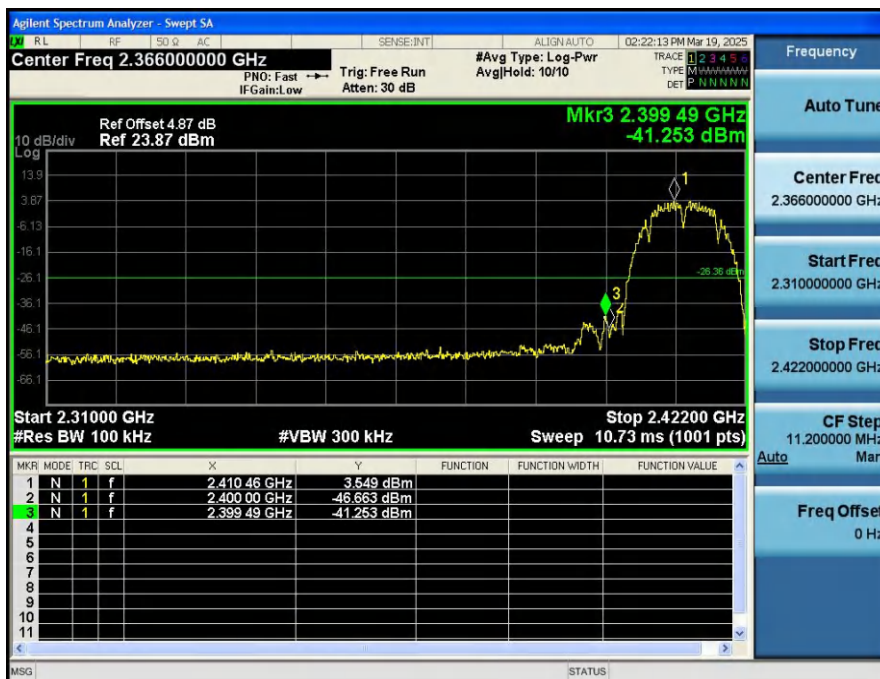


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2_Bandedge_NVNT_ANT1_802_11b_2412



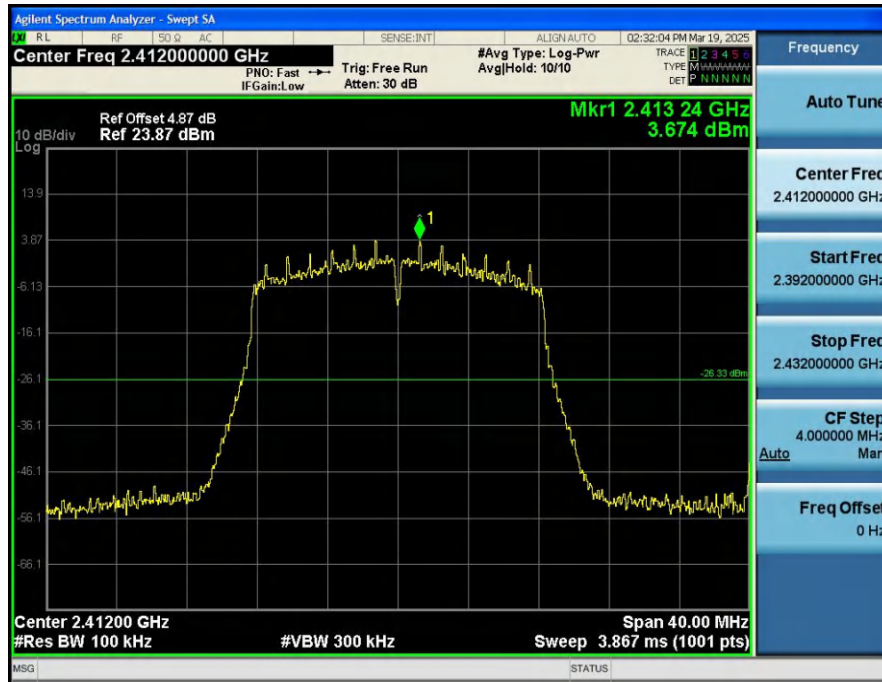
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2_Bandedge_NVNT_ANT1_802_11b_2462



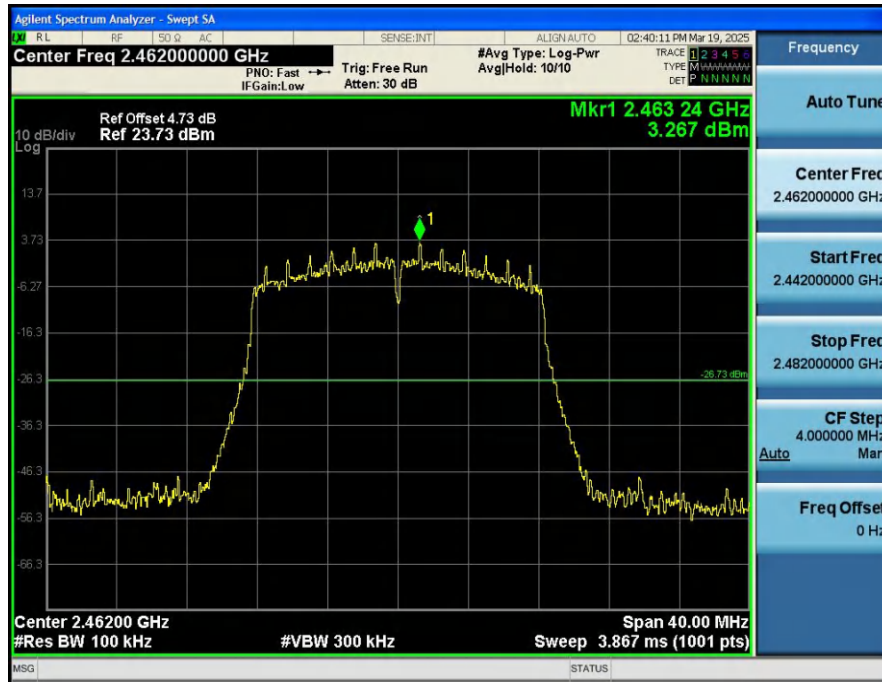
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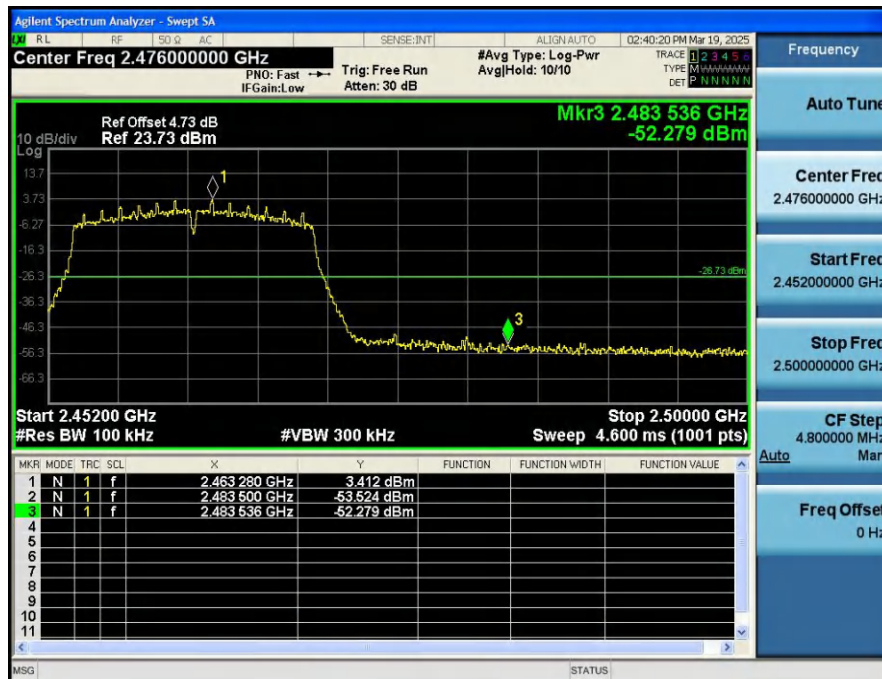
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1_Reference_Level_NVNT_ANT1_802_11g_2462



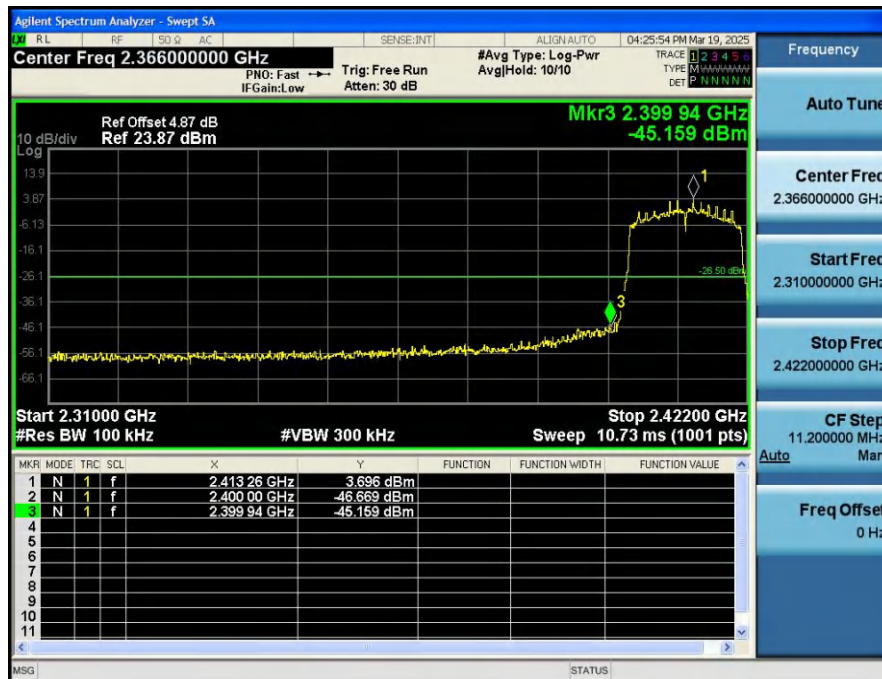
2_Bandedge_NVNT_ANT1_802_11g_2462



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



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	24830.204	3.638	-44.493	-26.362	Pass
NVNT	ANT1	802.11b	2437.00	24900.120	2.846	-44.592	-27.154	Pass
NVNT	ANT1	802.11b	2462.00	24812.725	2.955	-44.182	-27.045	Pass
NVNT	ANT1	802.11g	2412.00	24820.216	3.674	-44.970	-26.326	Pass
NVNT	ANT1	802.11g	2437.00	24957.551	3.300	-44.629	-26.700	Pass
NVNT	ANT1	802.11g	2462.00	24053.637	3.267	-44.824	-26.733	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24298.343	3.496	-44.866	-26.504	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24900.120	3.126	-45.177	-26.874	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24917.599	2.993	-44.875	-27.007	Pass

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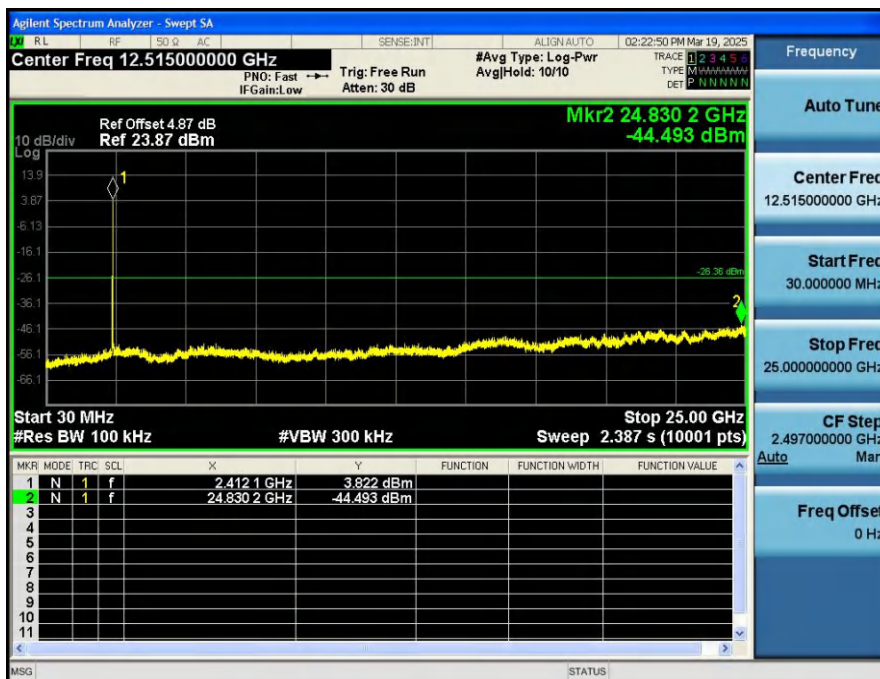


Hotline
400-003-0500
www.anbotek.com

1_Reference_Level_NVNT_ANT1_802_11b_2412



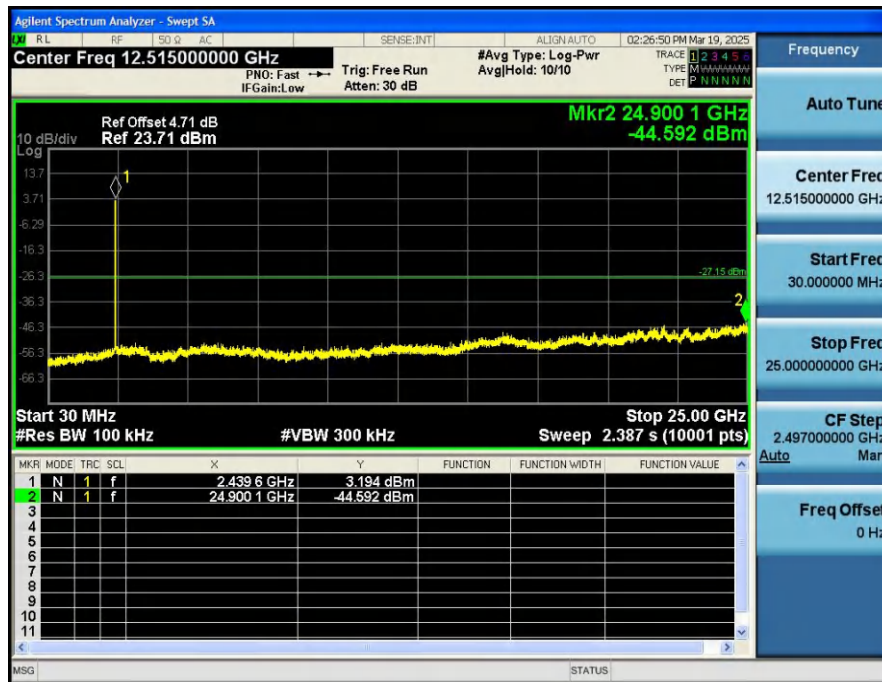
2_Spurious_Emission_NVNT_ANT1_802_11b_2412



1_Reference_Level_NVNT_ANT1_802_11b_2437



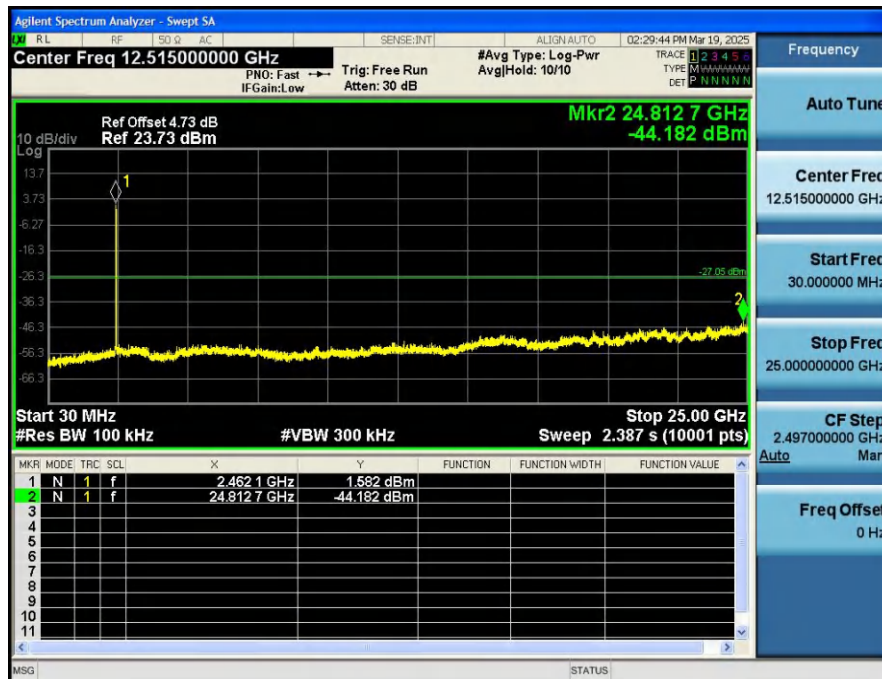
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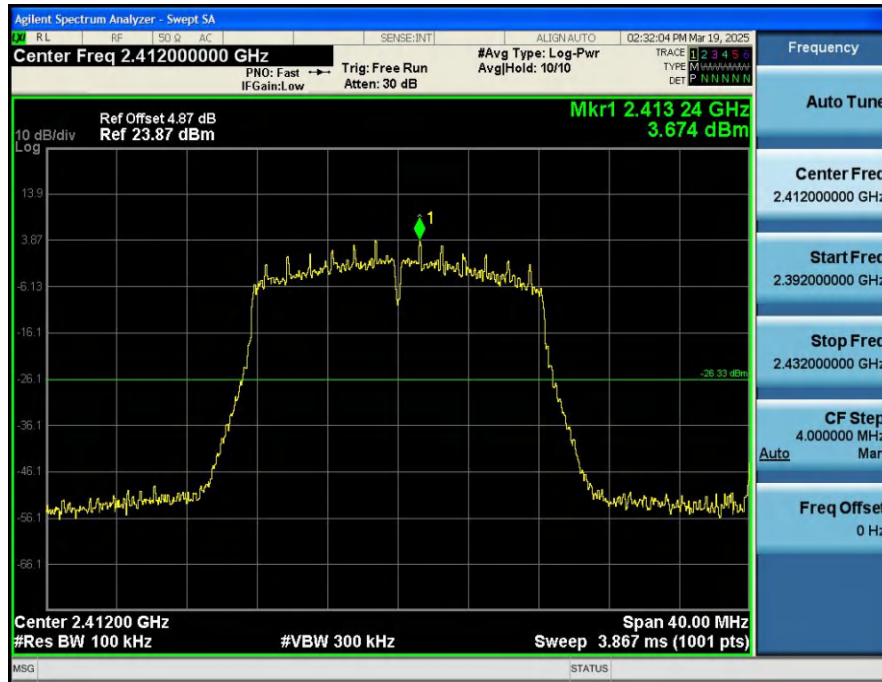
1_Reference_Level_NVNT_ANT1_802_11b_2462



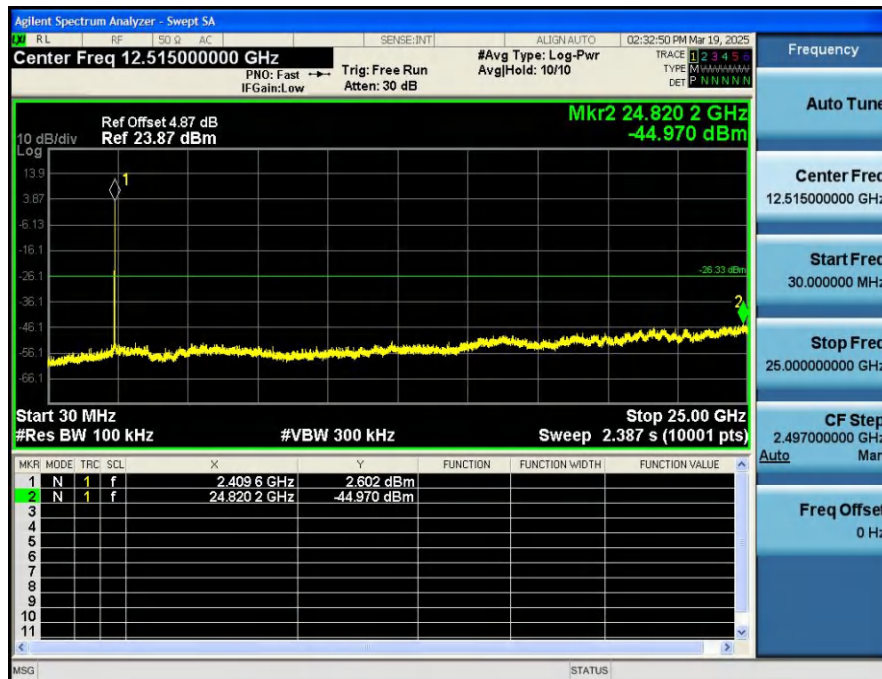
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1_Reference_Level_NVNT_ANT1_802_11g_2412



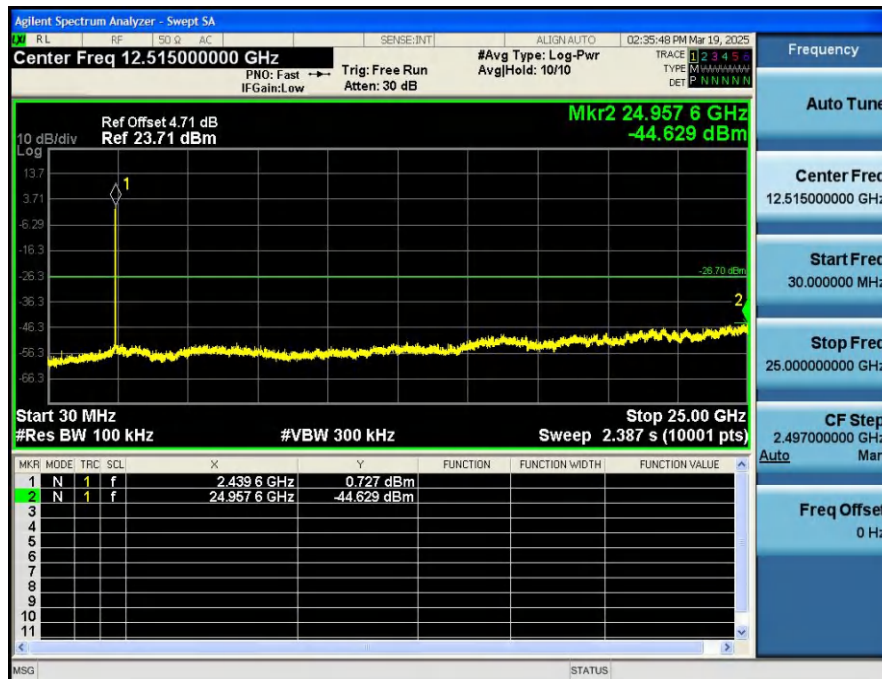
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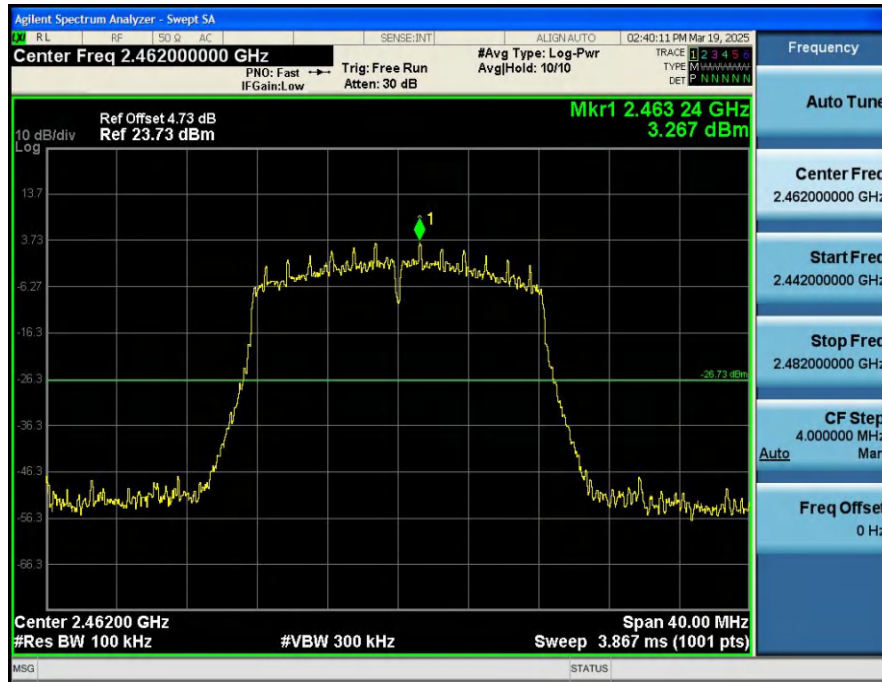
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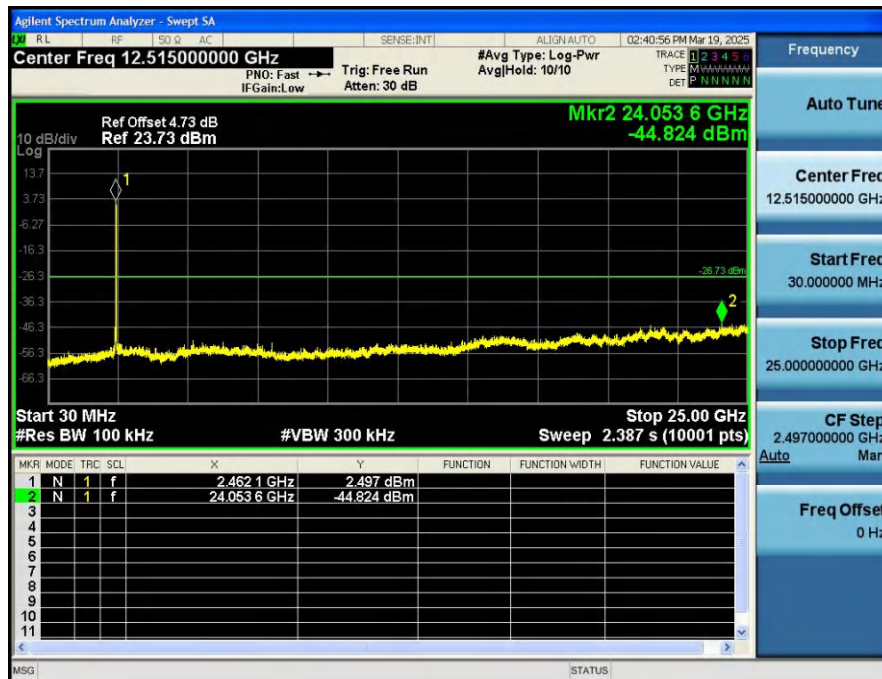
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1_Reference_Level_NVNT_ANT1_802_11g_2462



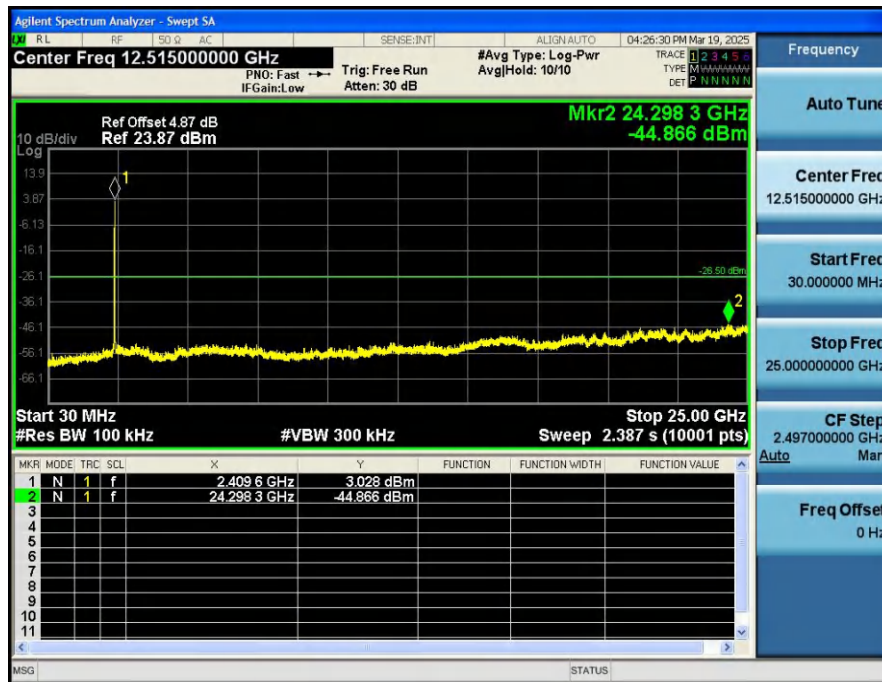
2_Spurious_Emission_NVNT_ANT1_802_11g_2462



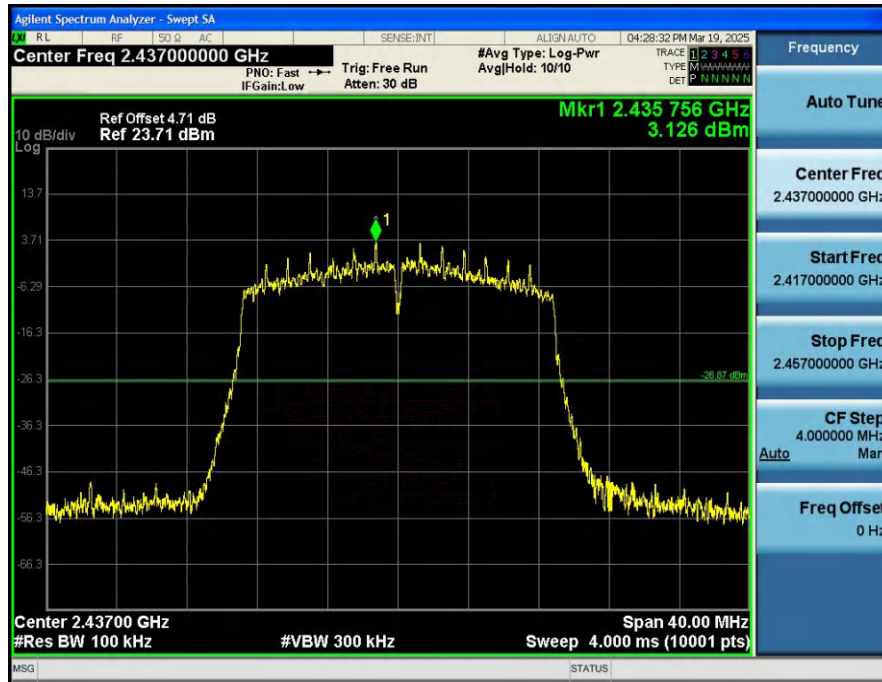
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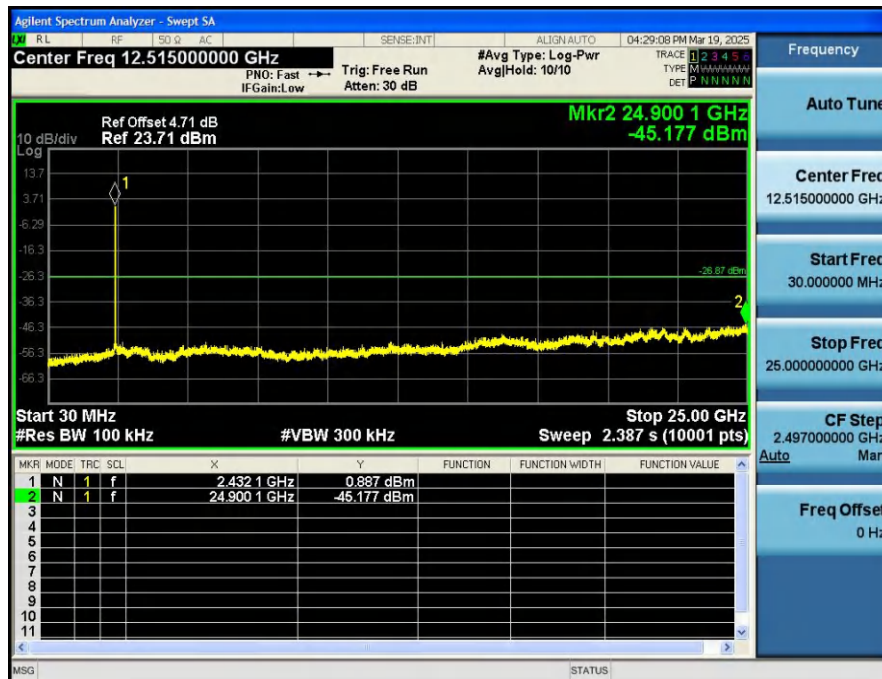
2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2412



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2437



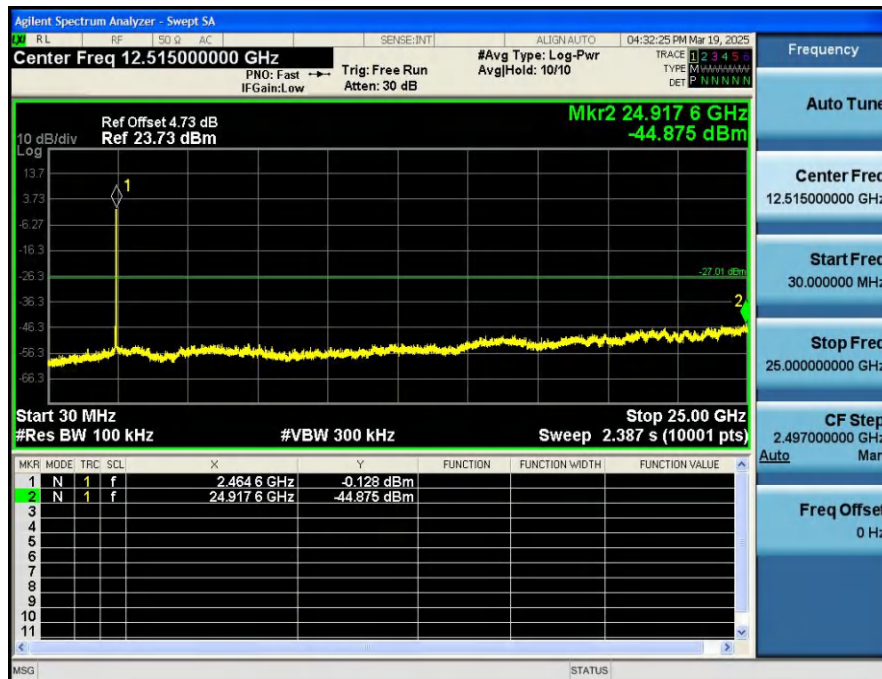
2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2437



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2462



---END---