

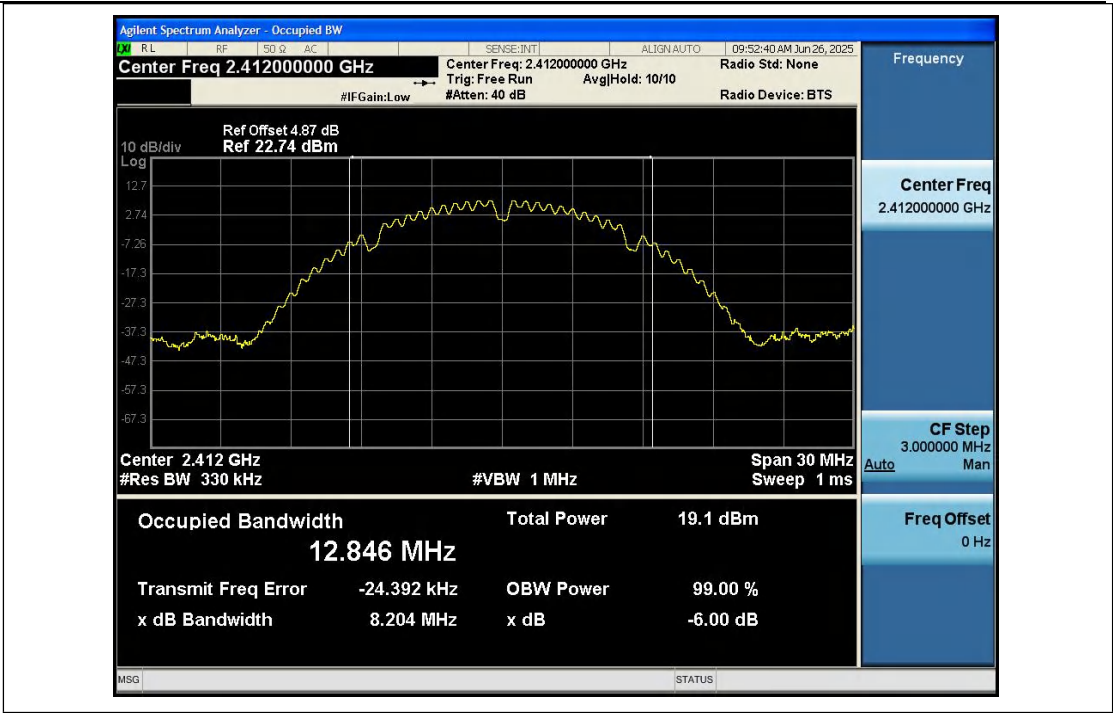
Appendix Test Data

Report No.:	1811C50197112502	Test Sample No.:	1-2-2
Start Test Date:	2025.6.19	Finish Test Date:	2025.8.15
Test Engineer:	<i>Liangfei Yang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	22.4℃	Relative Humidity:	57%
Pressure:	101kPa		

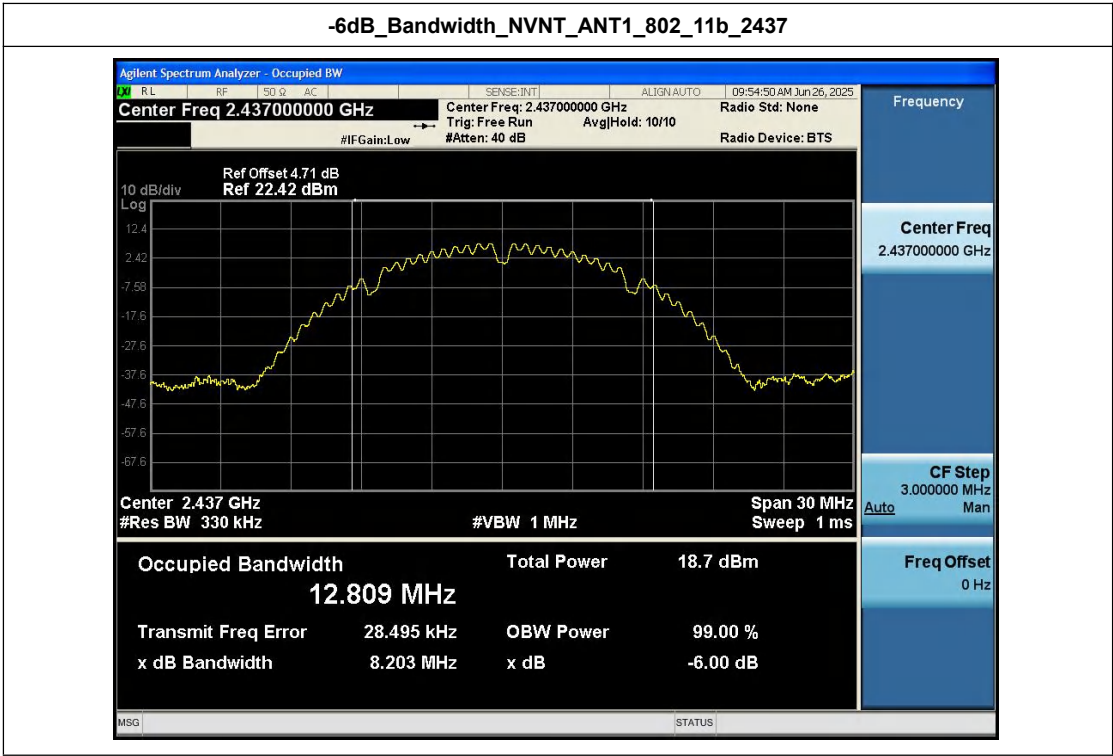
Appendix A: -6dB Bandwidth

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	16.24	500	Pass
NVNT	ANT1	802.11g	2437.00	16.19	500	Pass
NVNT	ANT1	802.11g	2462.00	16.11	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.45	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.42	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.26	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	36.02	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.59	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	34.74	500	Pass

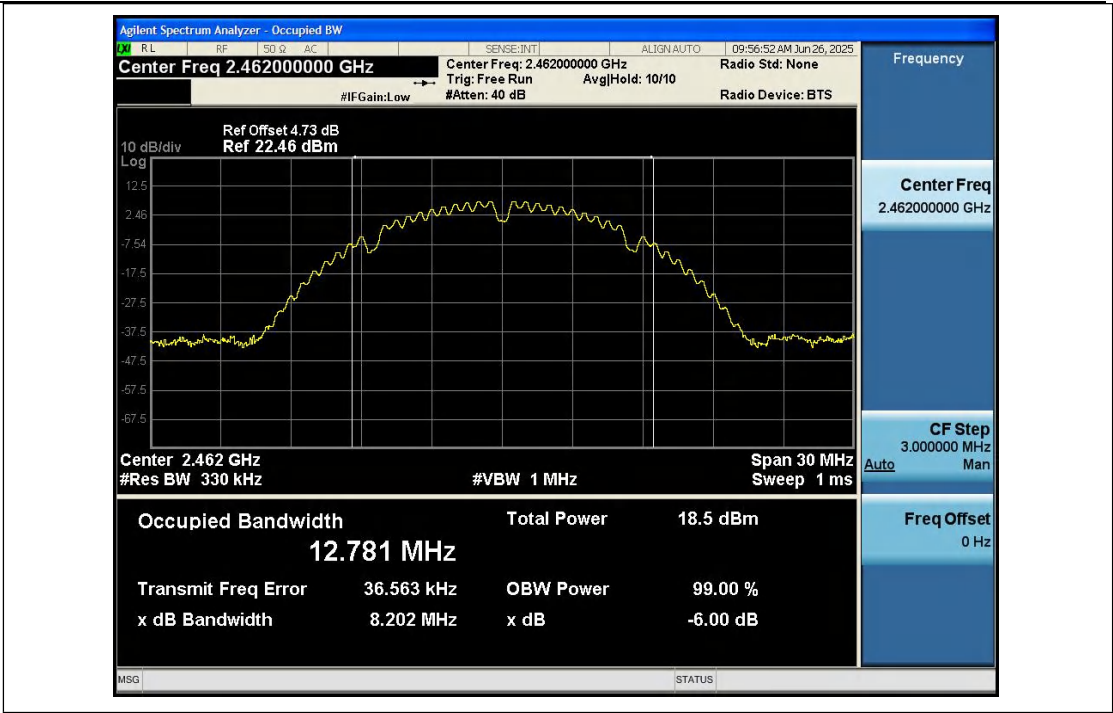
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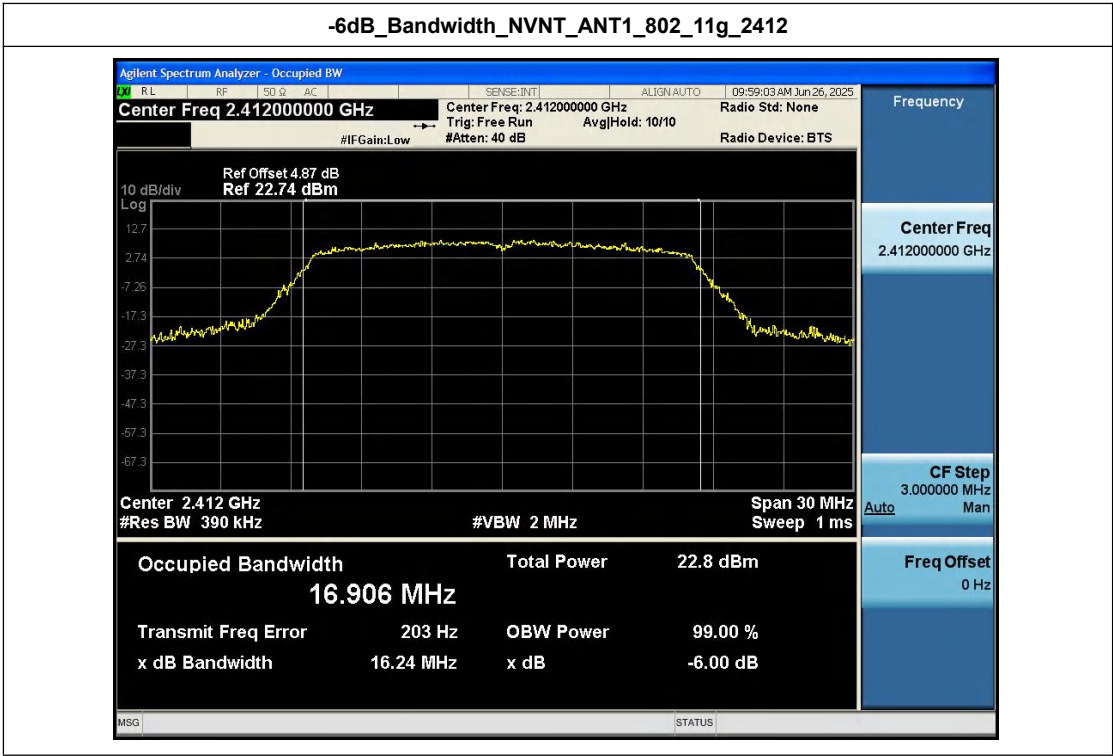
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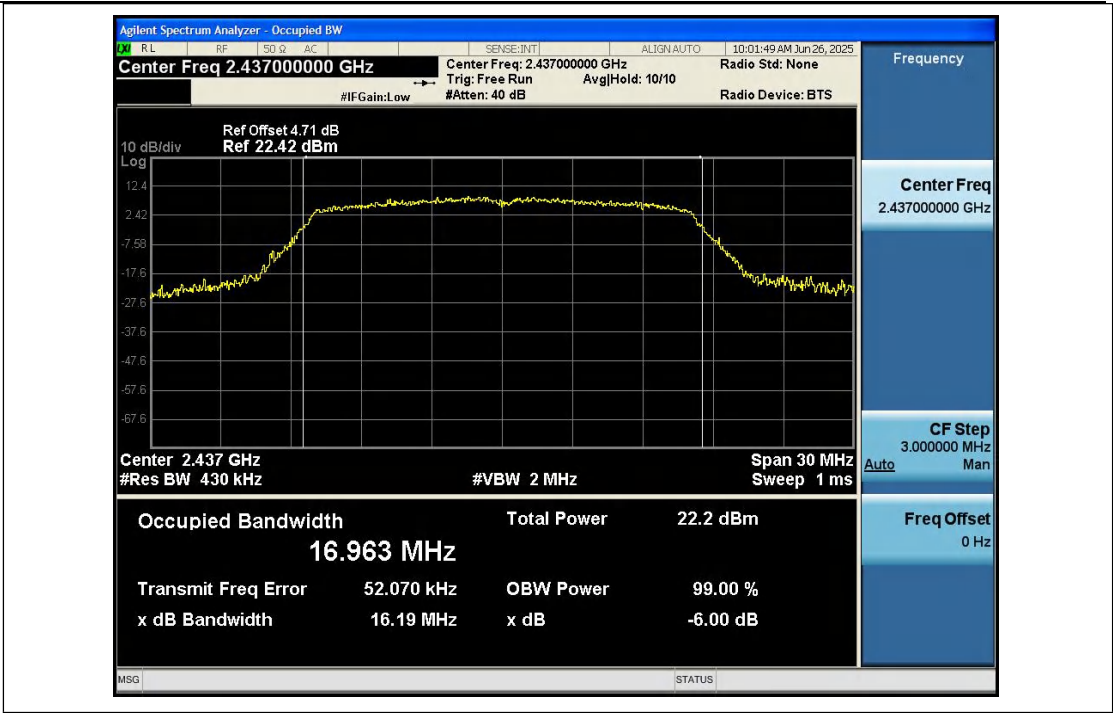
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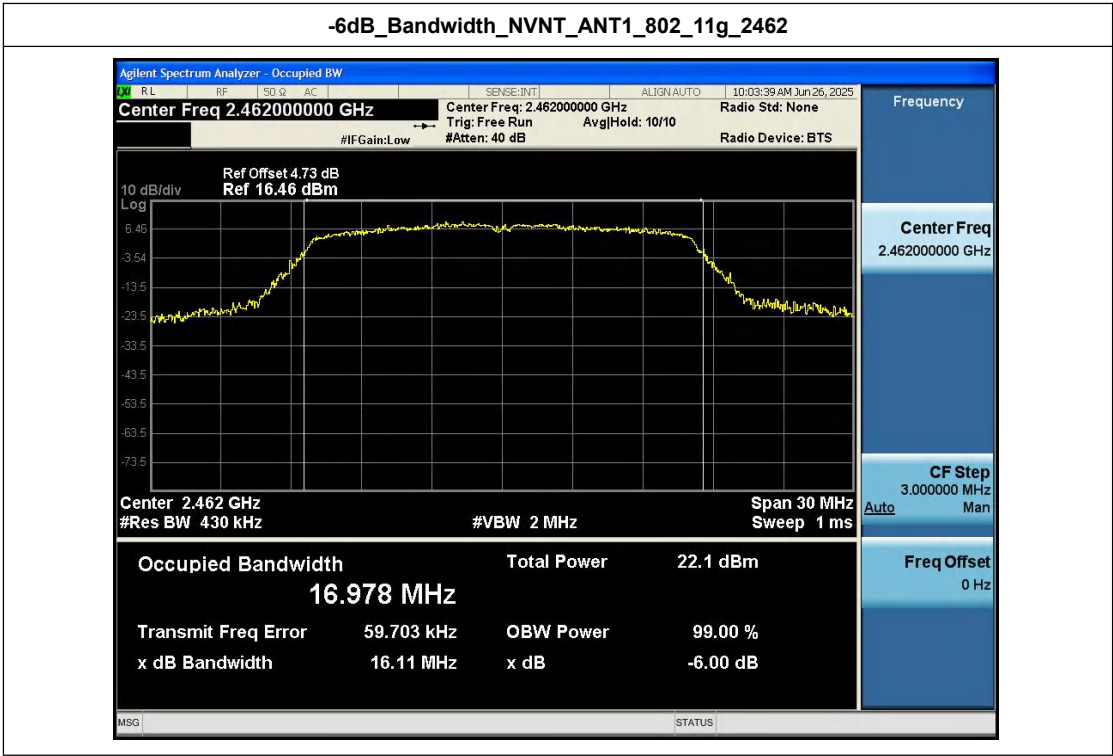
-6dB_Bandwidth_NVNT_ANT1_802_11g_2412



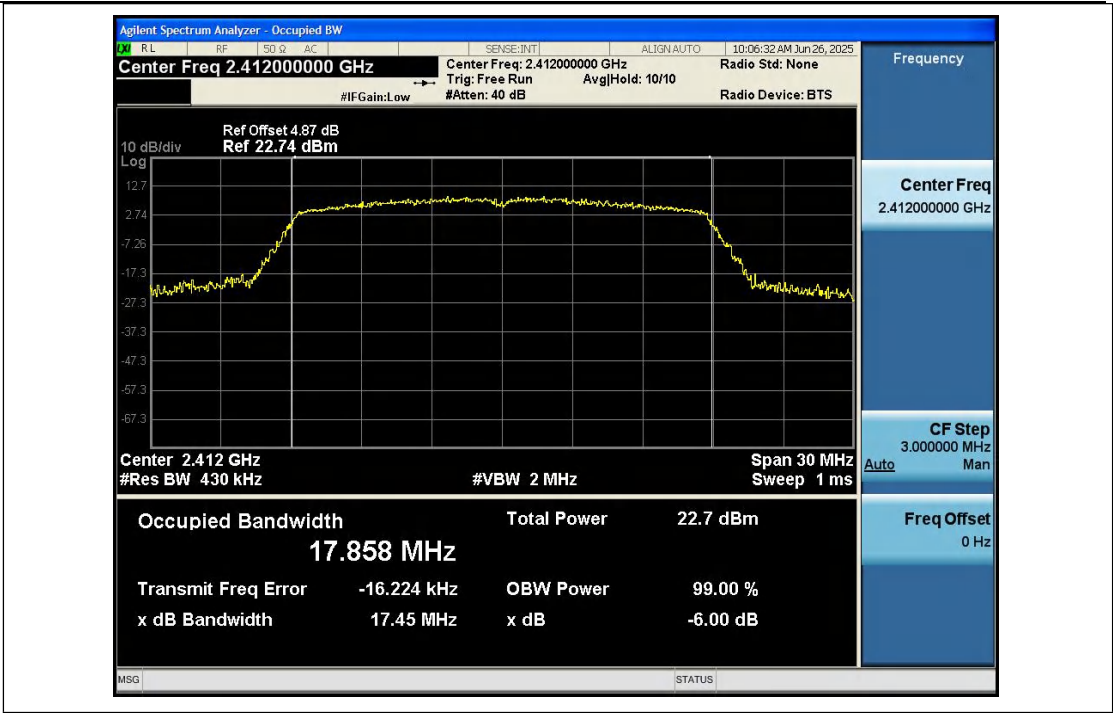
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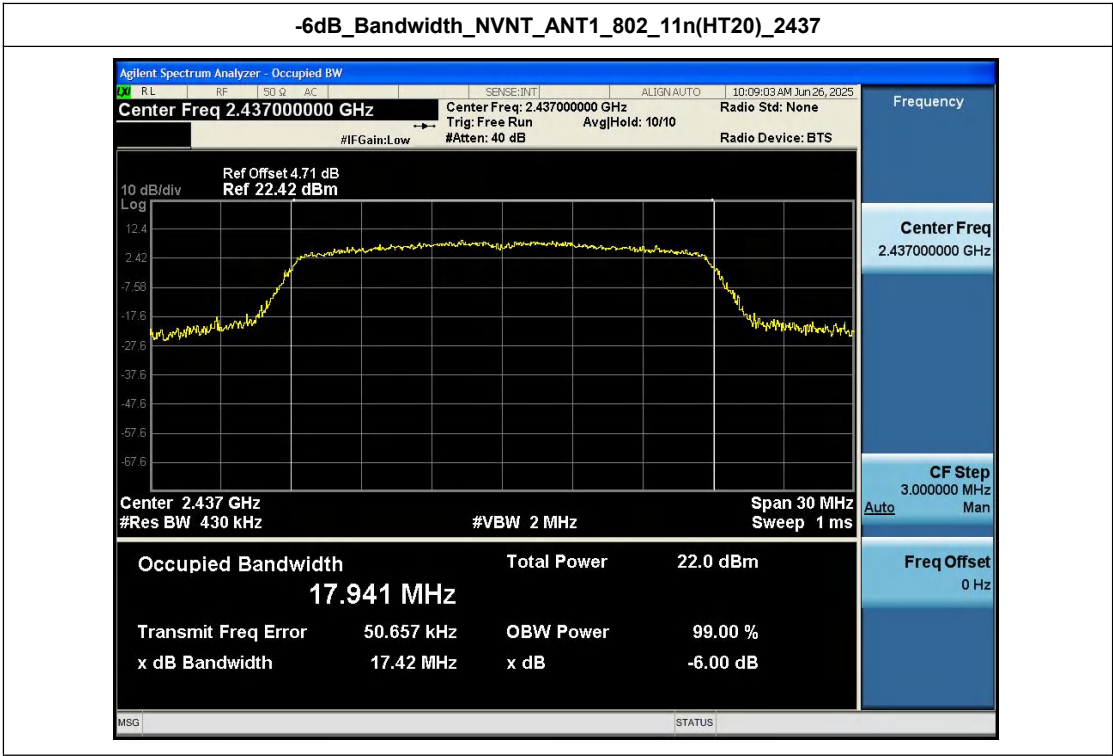
-6dB_Bandwidth_NVNT_ANT1_802_11g_2462



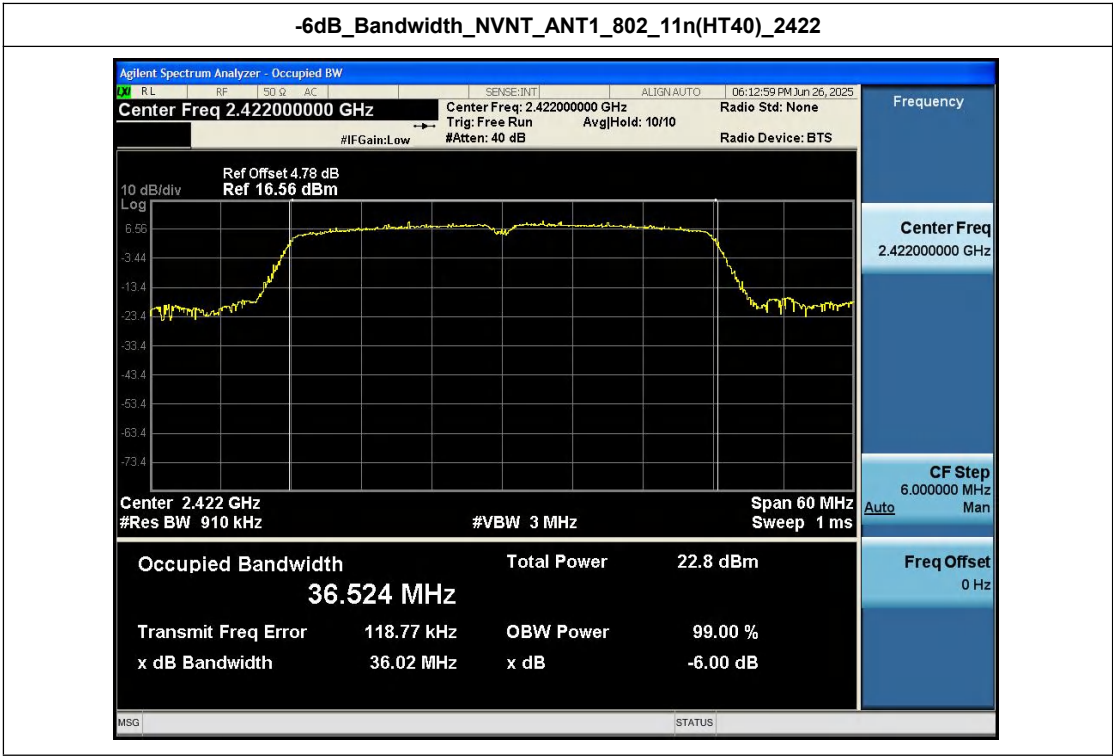
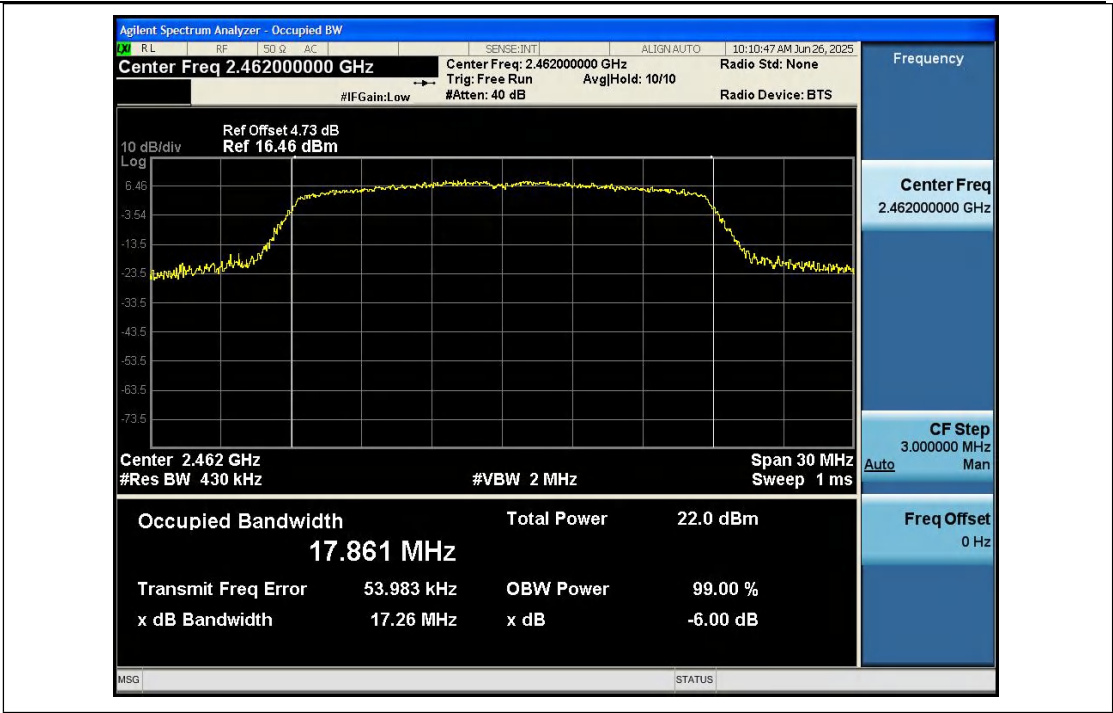
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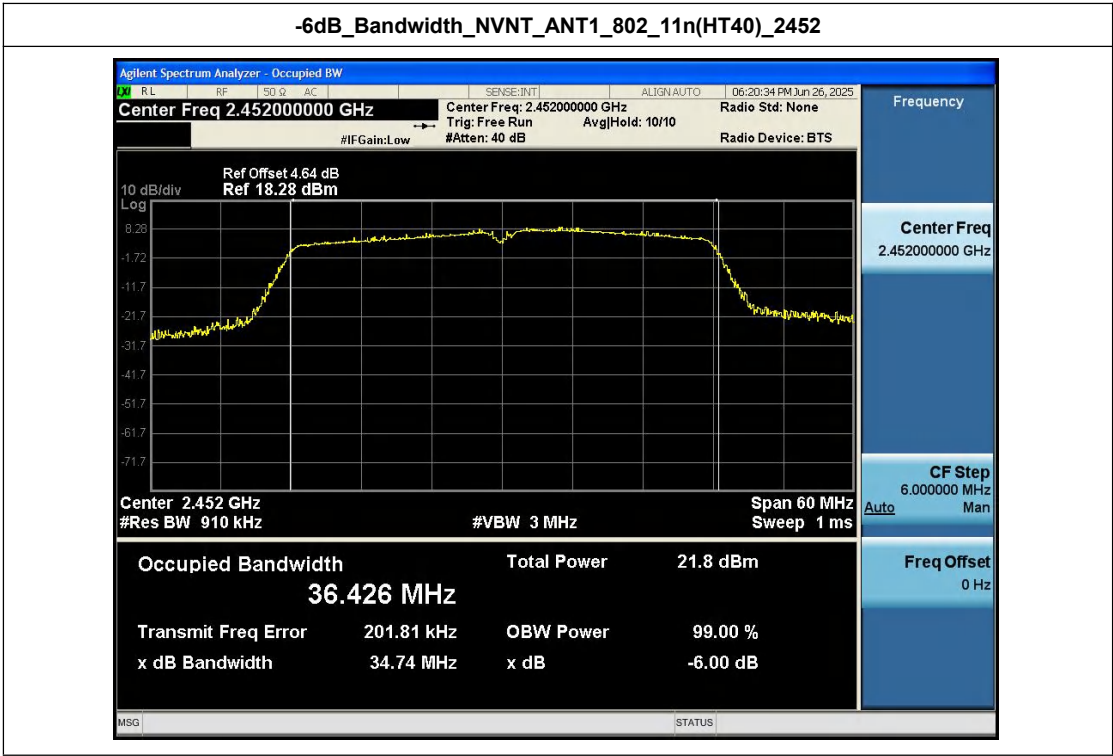
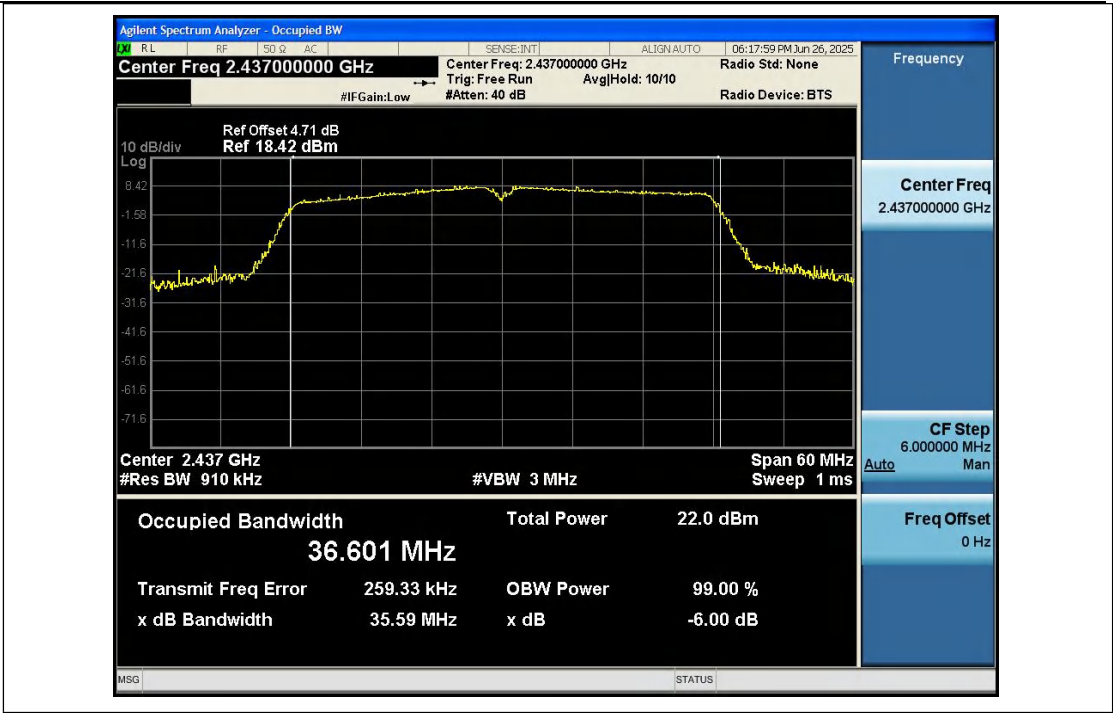


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462





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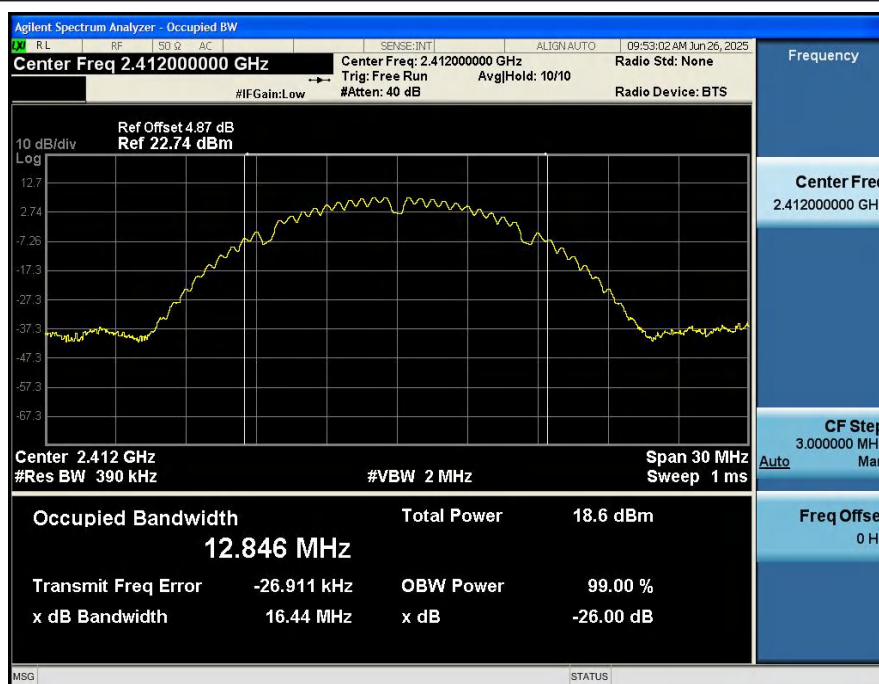
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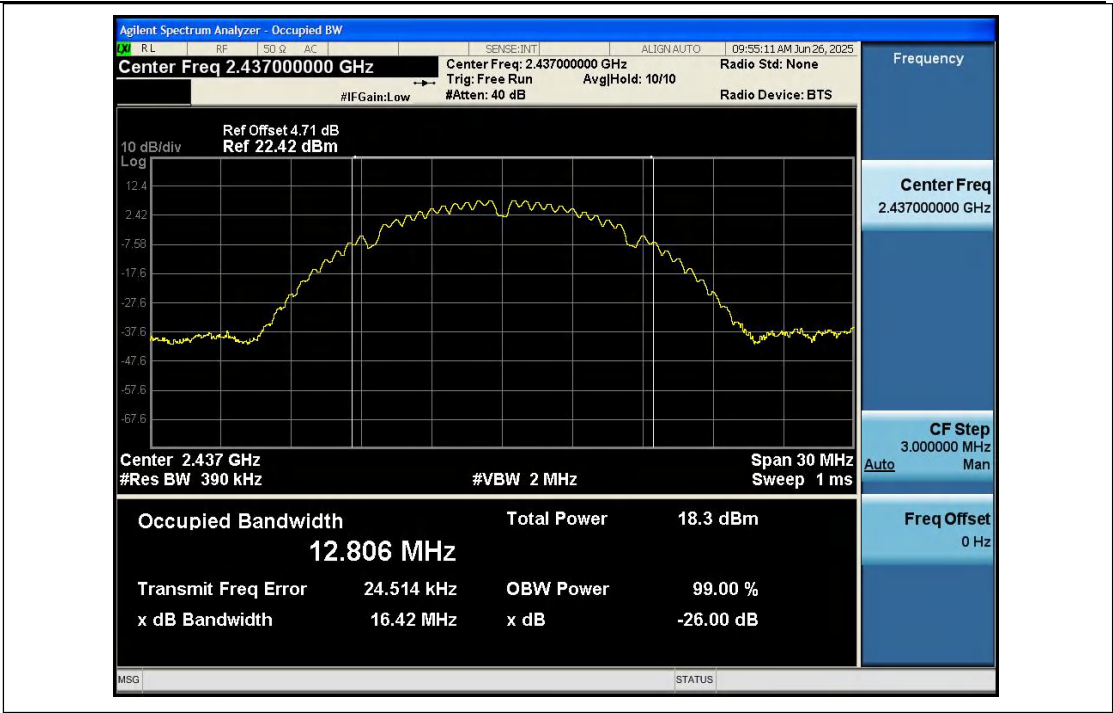
Appendix B: 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%BW(MHz)
NVNT	ANT1	802.11b	2412.00	12.846
NVNT	ANT1	802.11b	2437.00	12.806
NVNT	ANT1	802.11b	2462.00	12.780
NVNT	ANT1	802.11g	2412.00	17.143
NVNT	ANT1	802.11g	2437.00	17.160
NVNT	ANT1	802.11g	2462.00	17.126
NVNT	ANT1	802.11n(HT20)	2412.00	17.987
NVNT	ANT1	802.11n(HT20)	2437.00	18.025
NVNT	ANT1	802.11n(HT20)	2462.00	18.085
NVNT	ANT1	802.11n(HT40)	2422.00	36.548
NVNT	ANT1	802.11n(HT40)	2437.00	36.666
NVNT	ANT1	802.11n(HT40)	2452.00	36.433

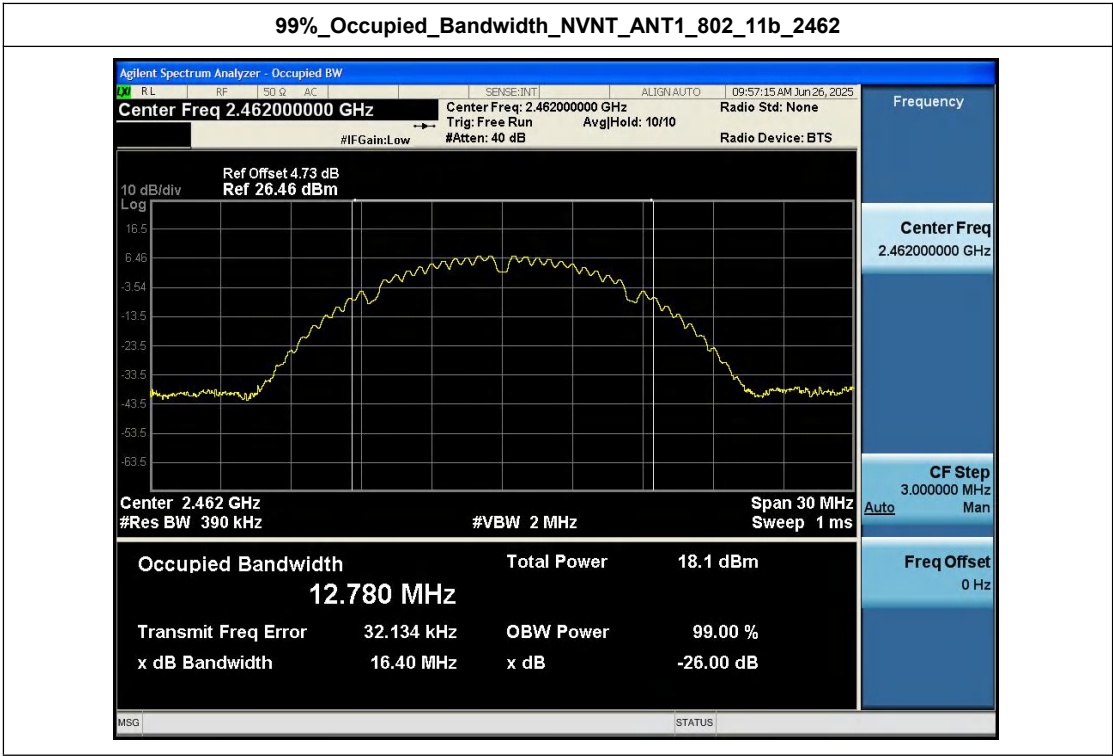
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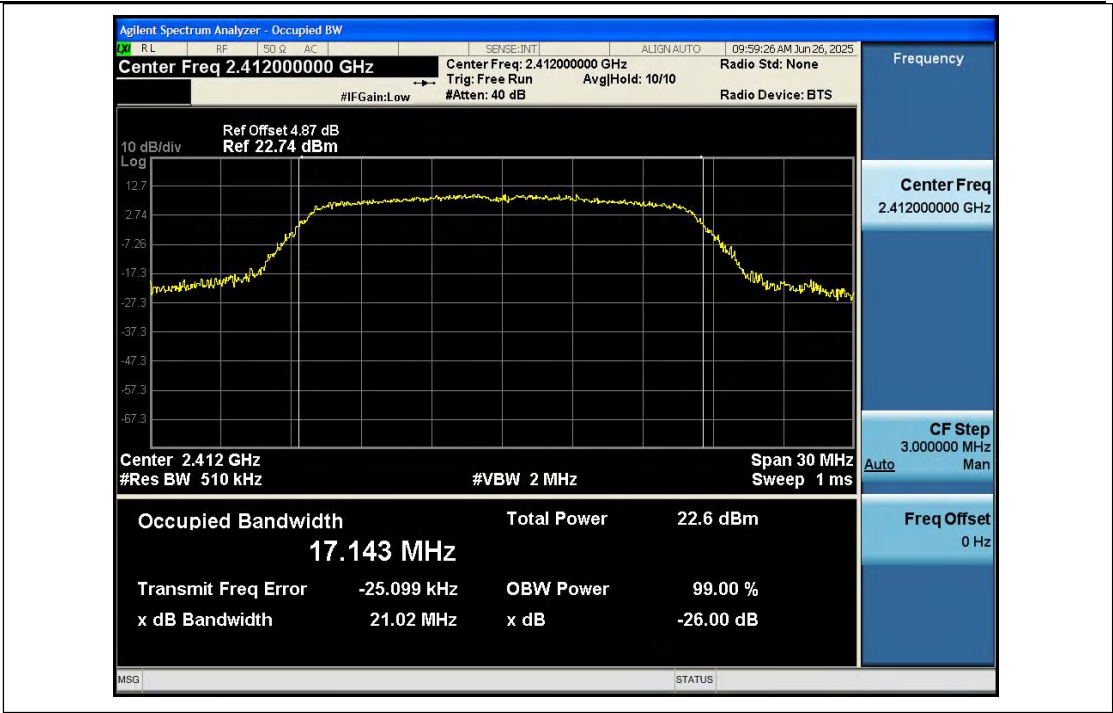
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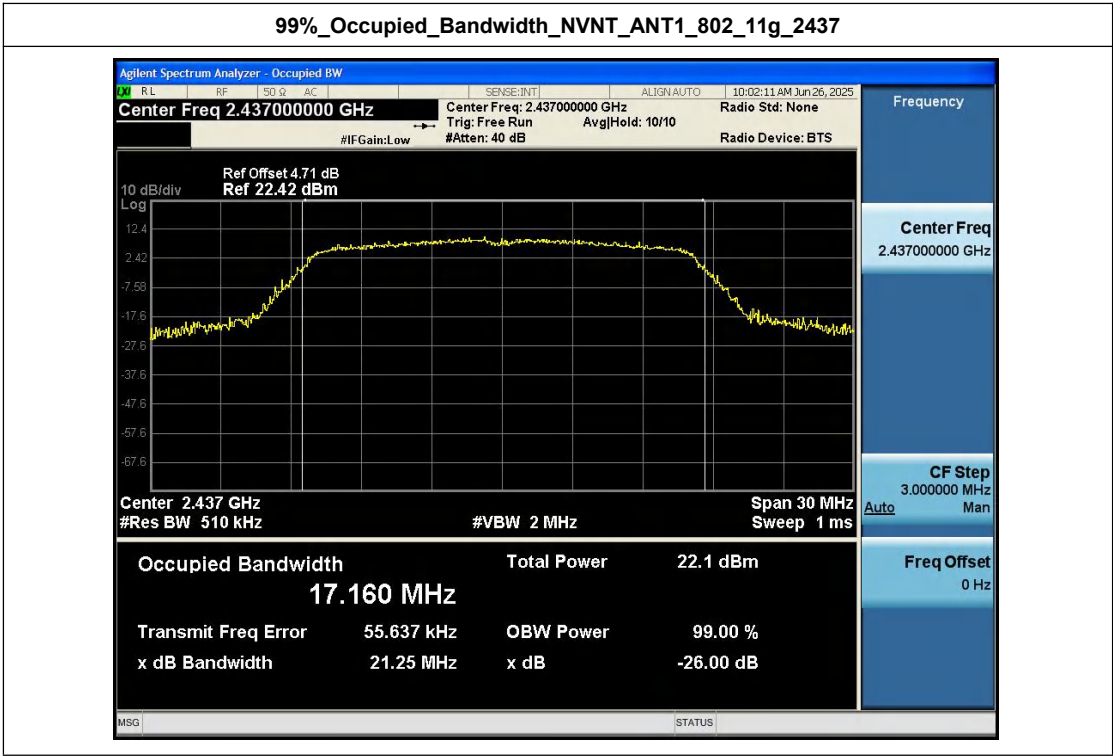
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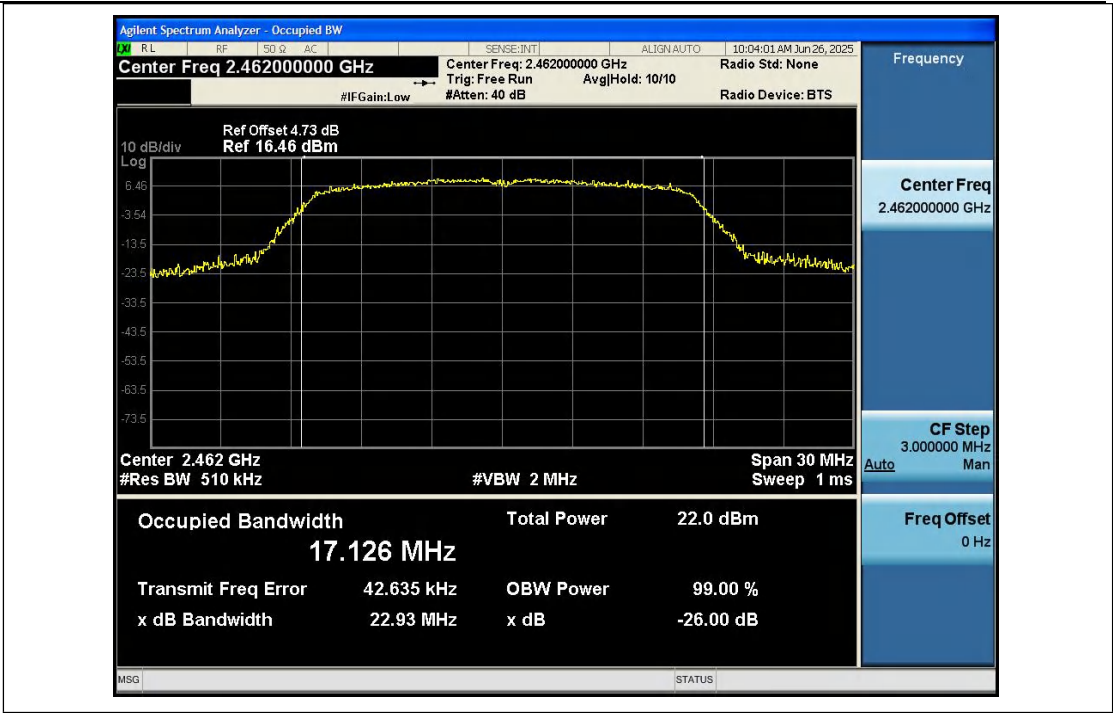
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2412



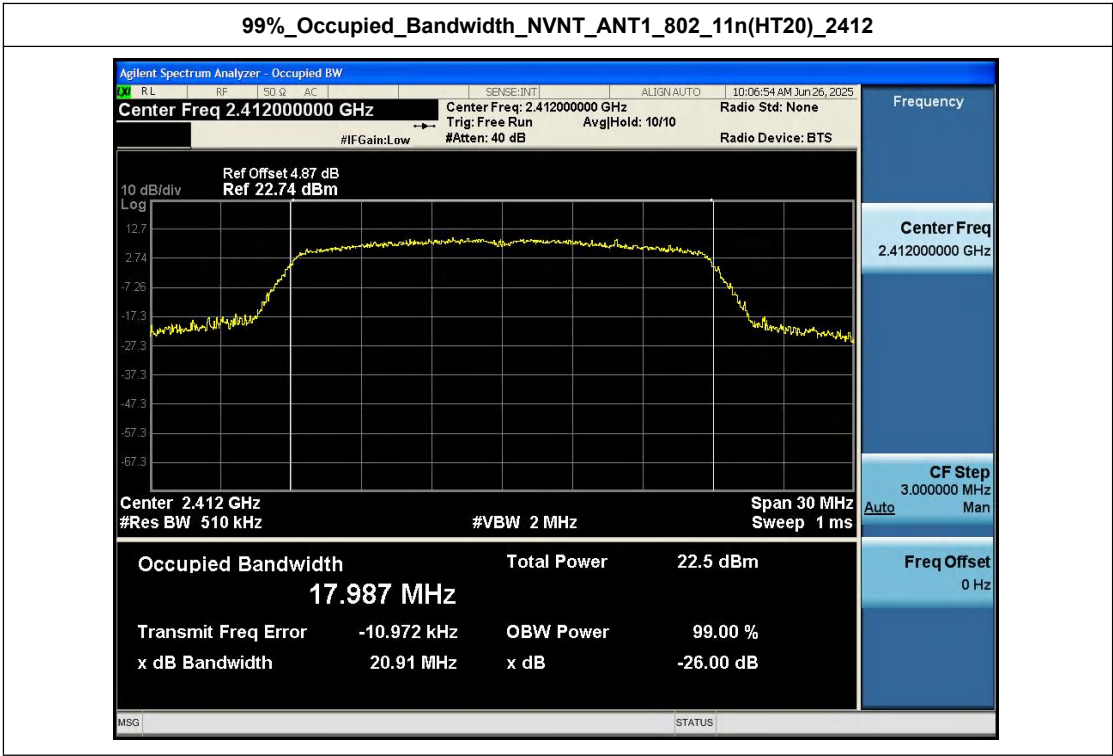
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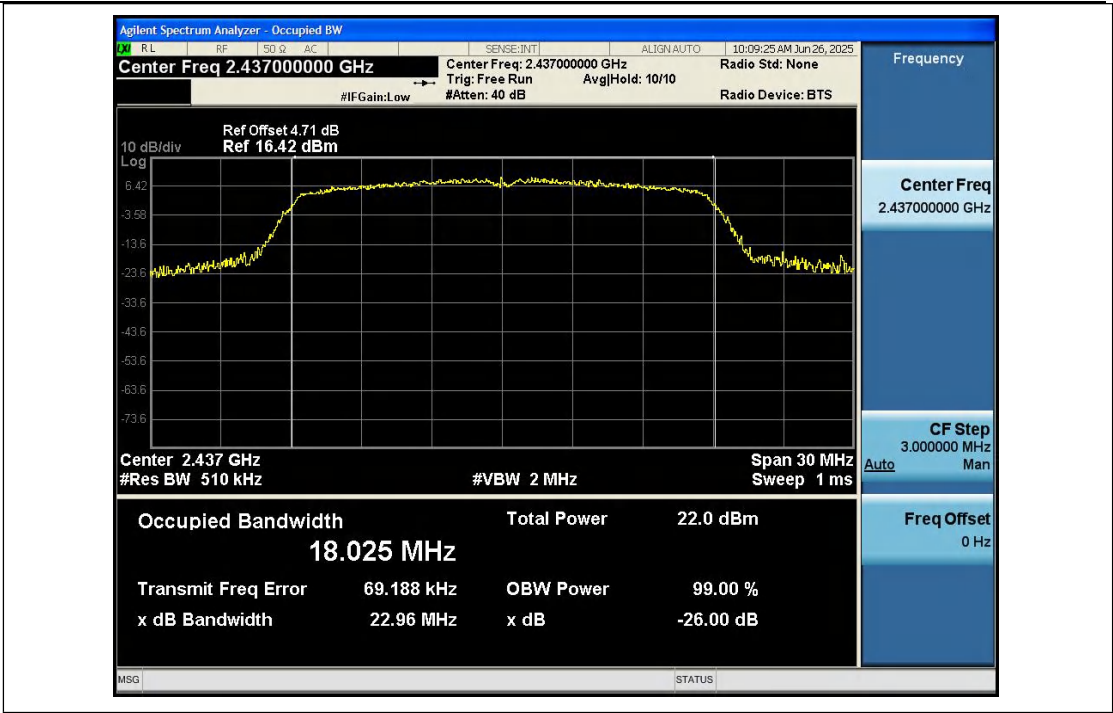
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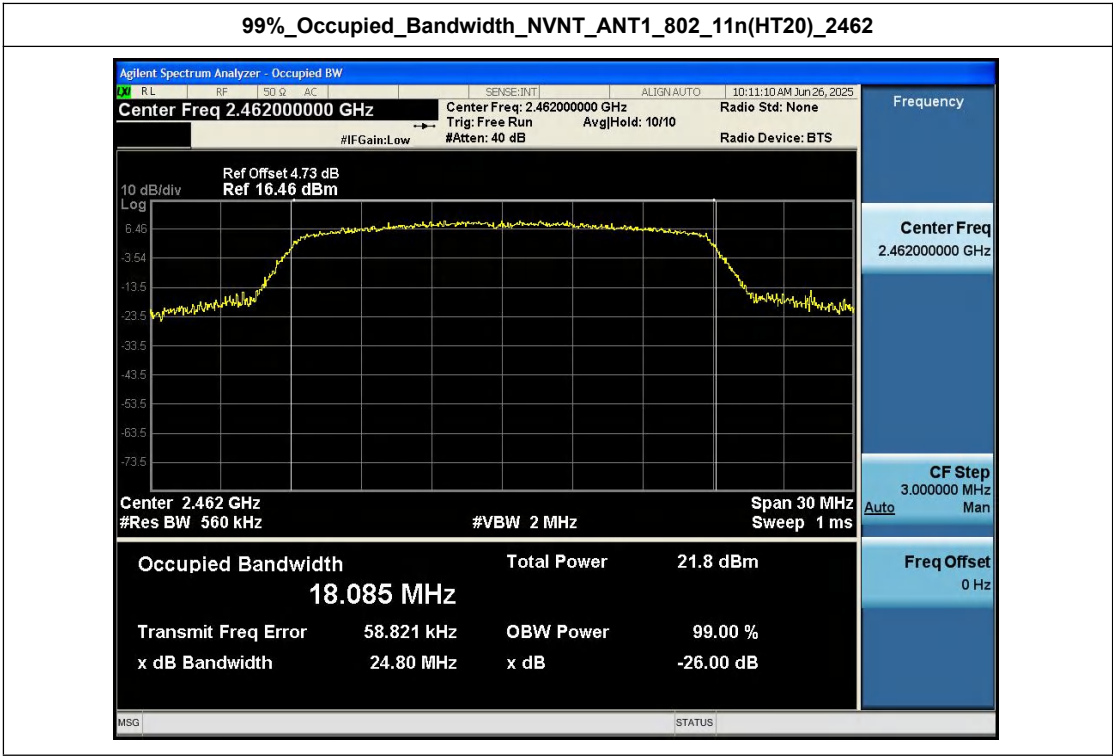
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



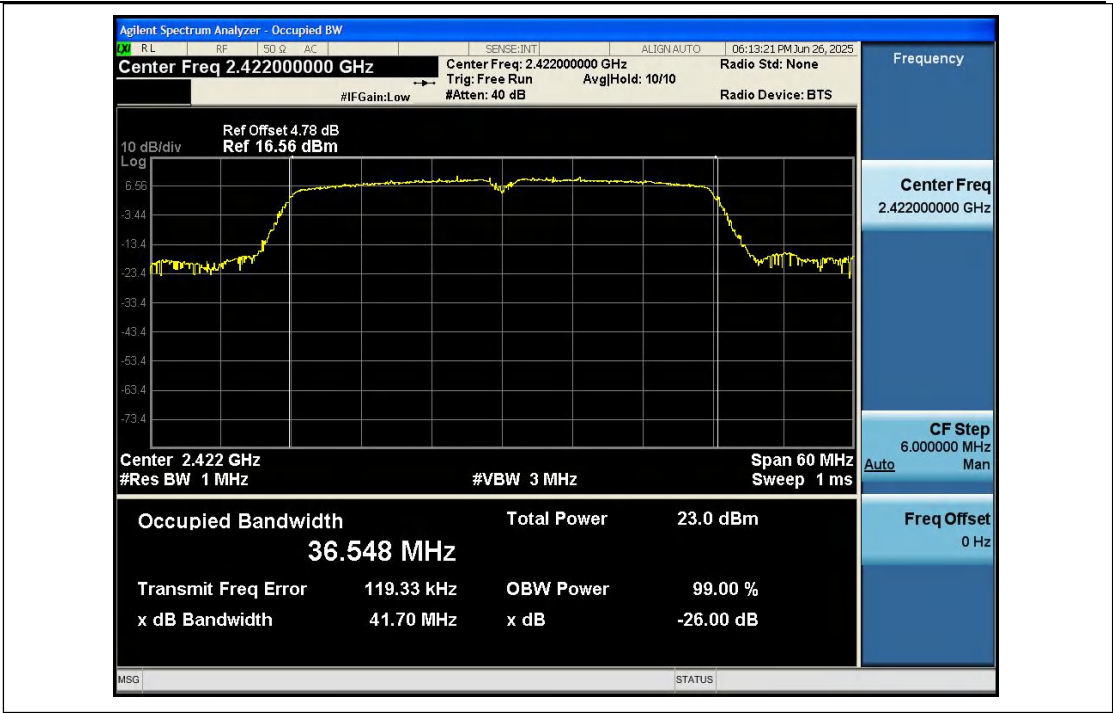
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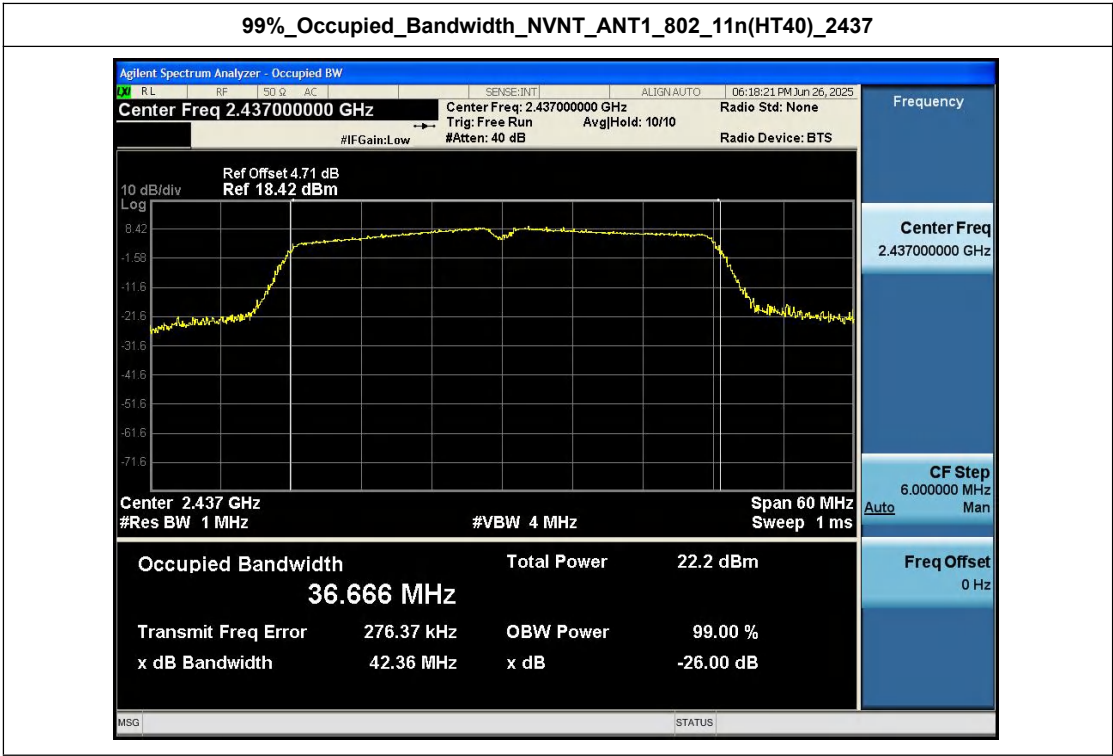
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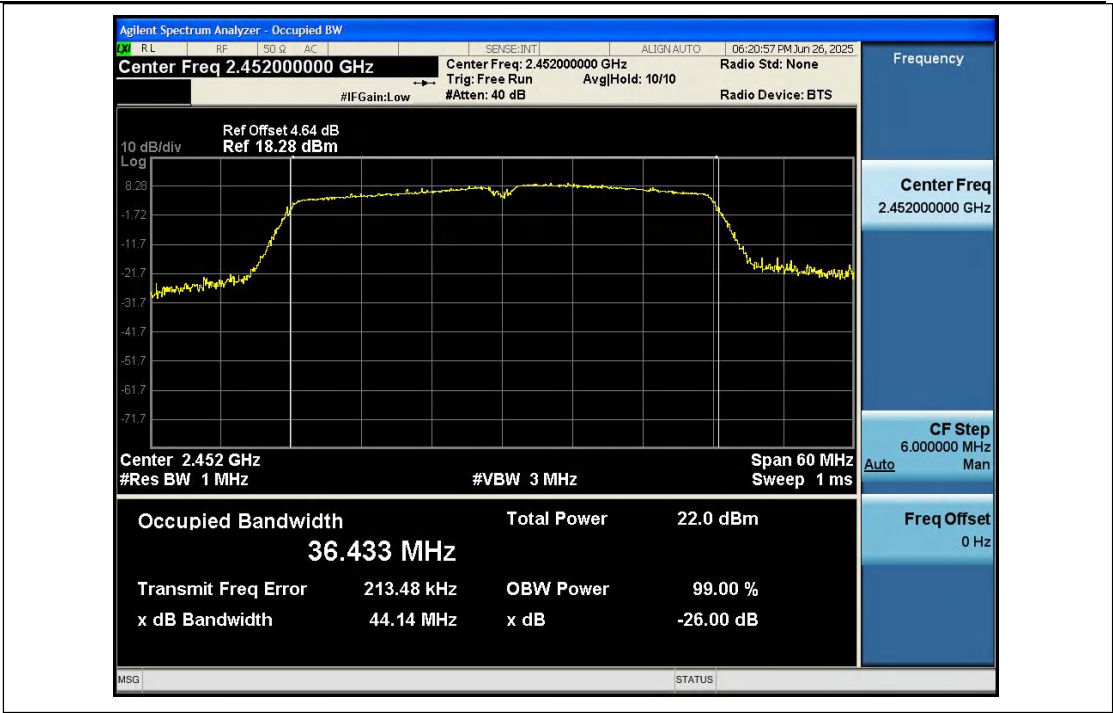
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



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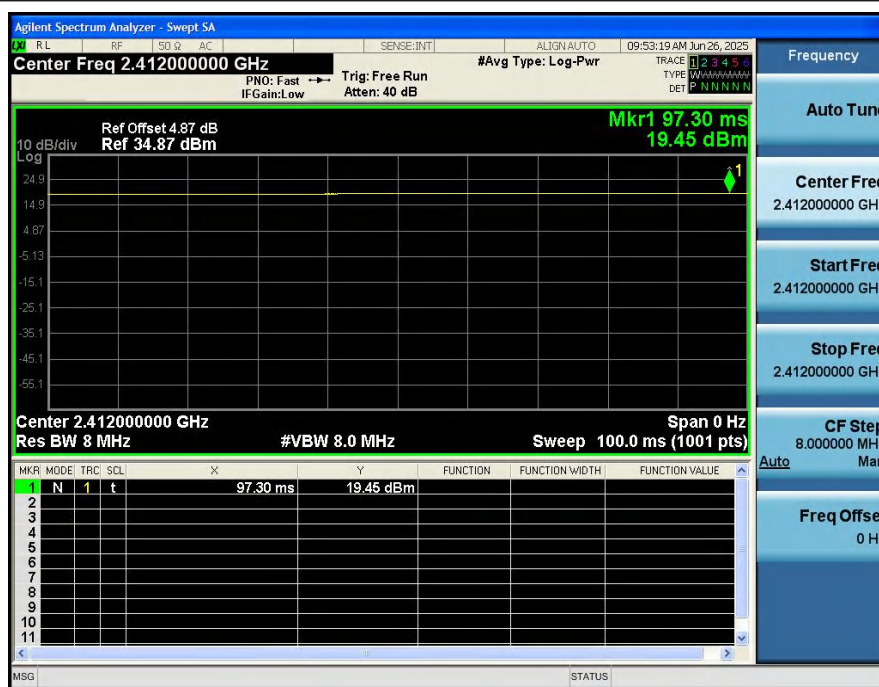
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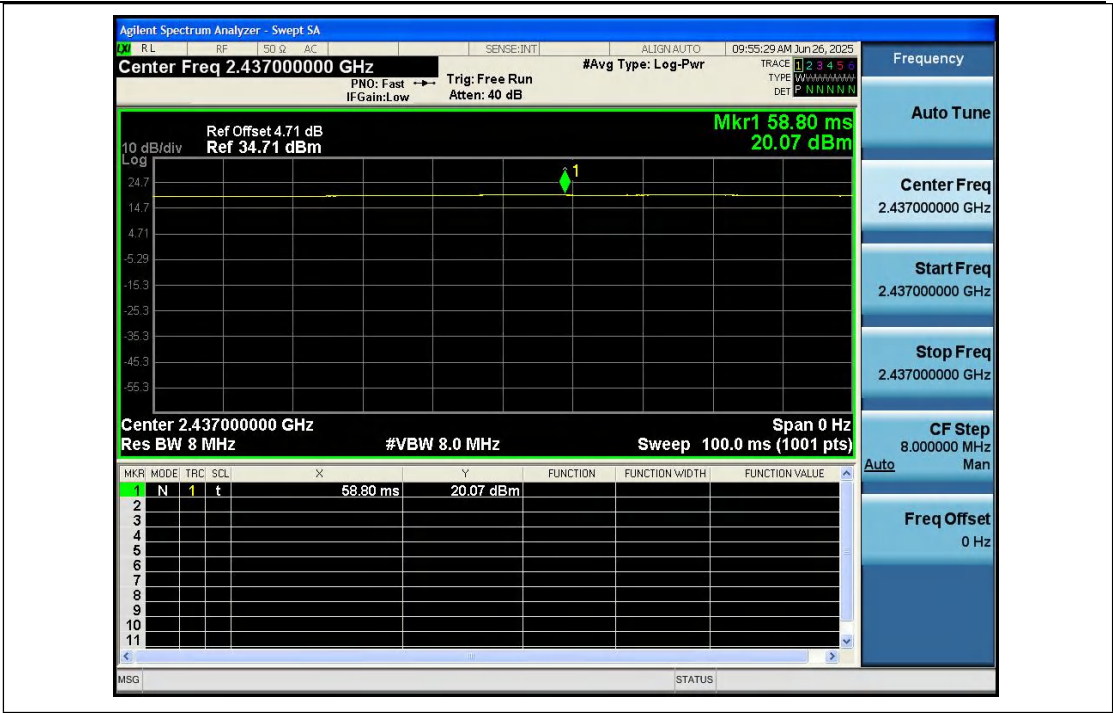
Appendix C: Duty Cycle

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
NVNT	ANT1	802.11n(HT40)	2422.00	97.06	0.13
NVNT	ANT1	802.11n(HT40)	2437.00	100	0.00
NVNT	ANT1	802.11n(HT40)	2452.00	100	0.00

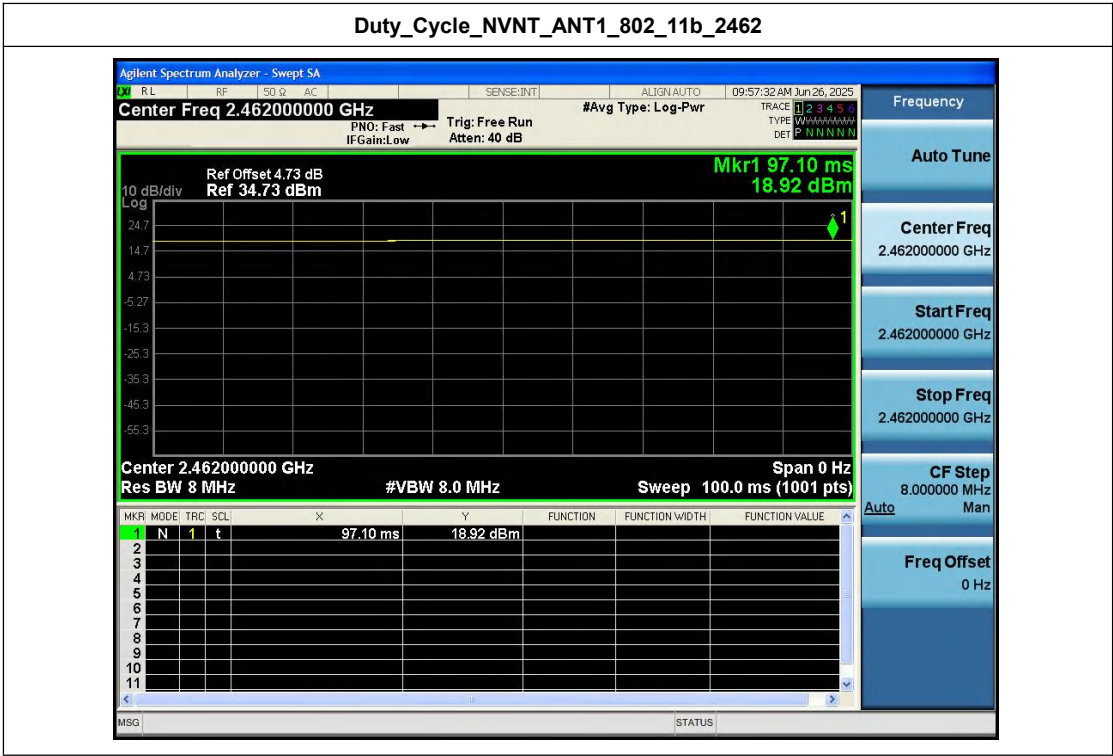
Duty_Cycle_NVNT_ANT1_802_11b_2412



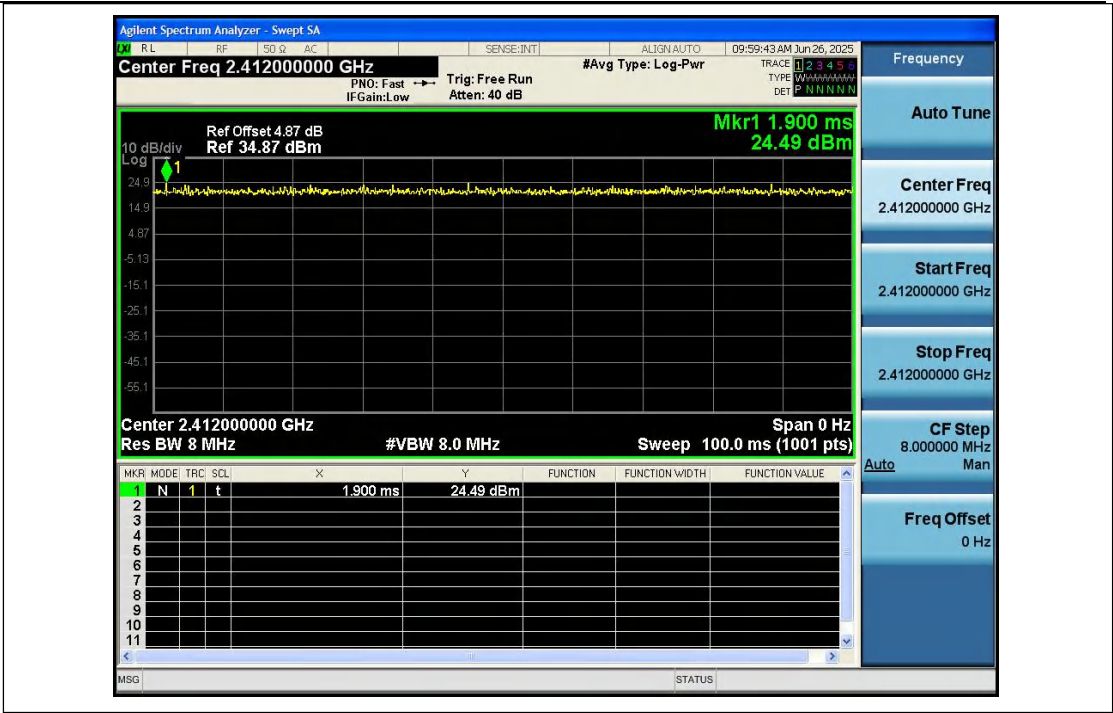
Duty_Cycle_NVNT_ANT1_802_11b_2437



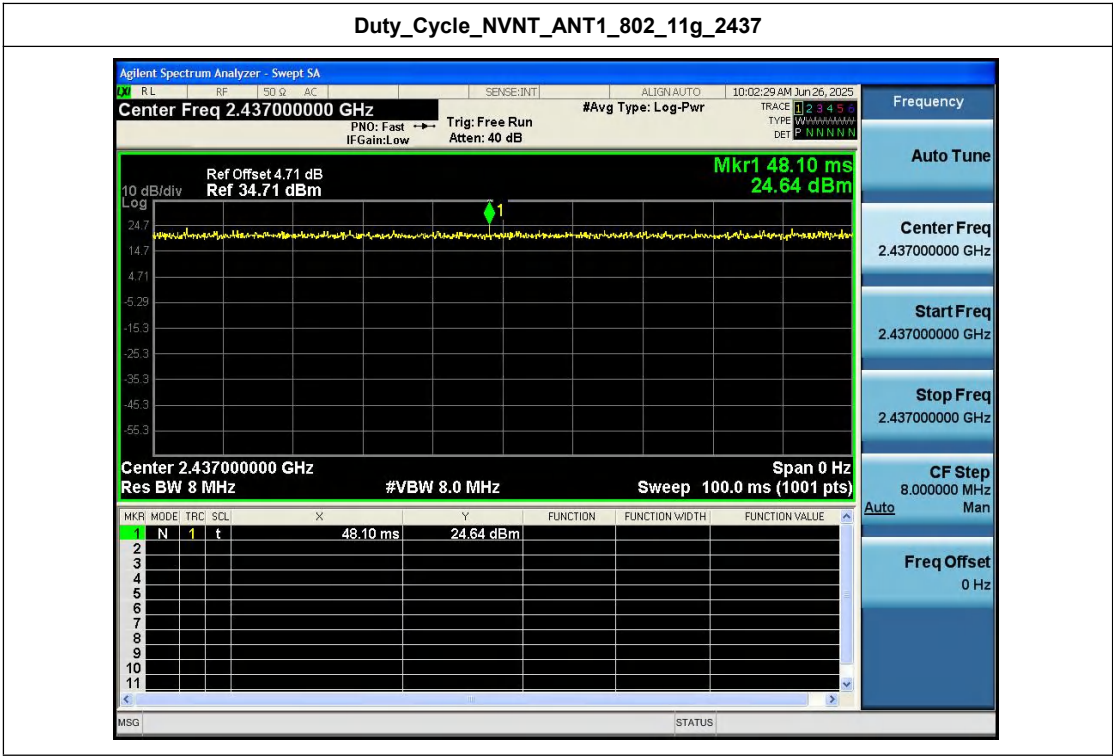
Duty_Cycle_NVNT_ANT1_802_11b_2462



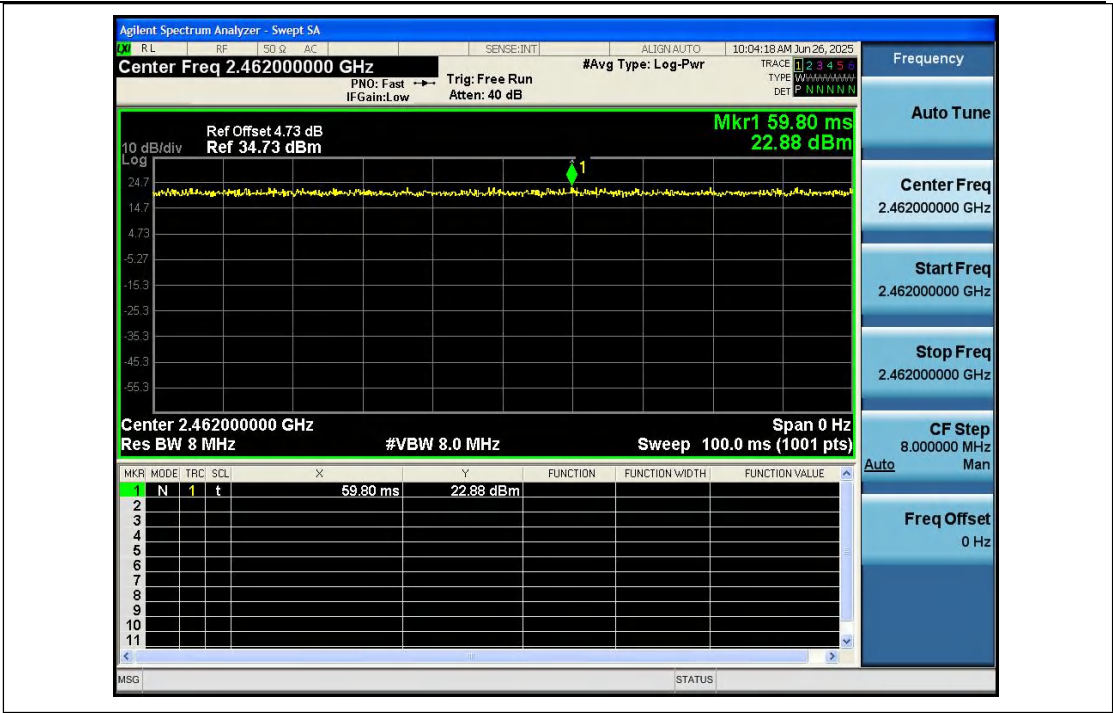
Duty_Cycle_NVNT_ANT1_802_11g_2412



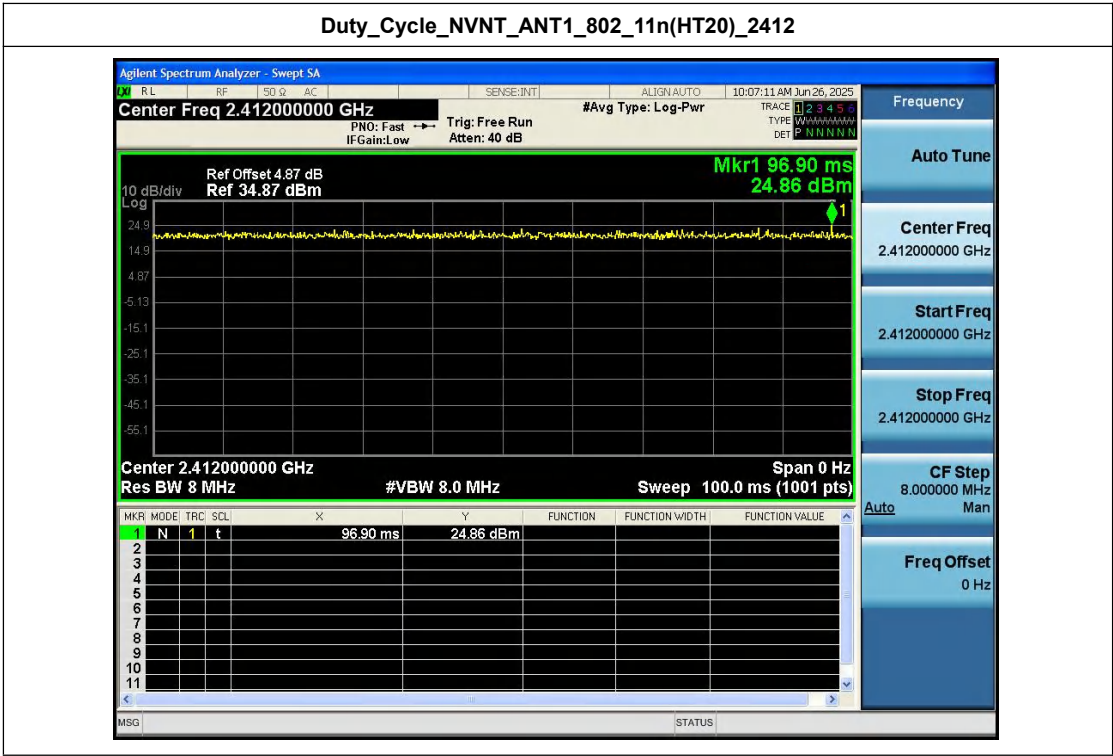
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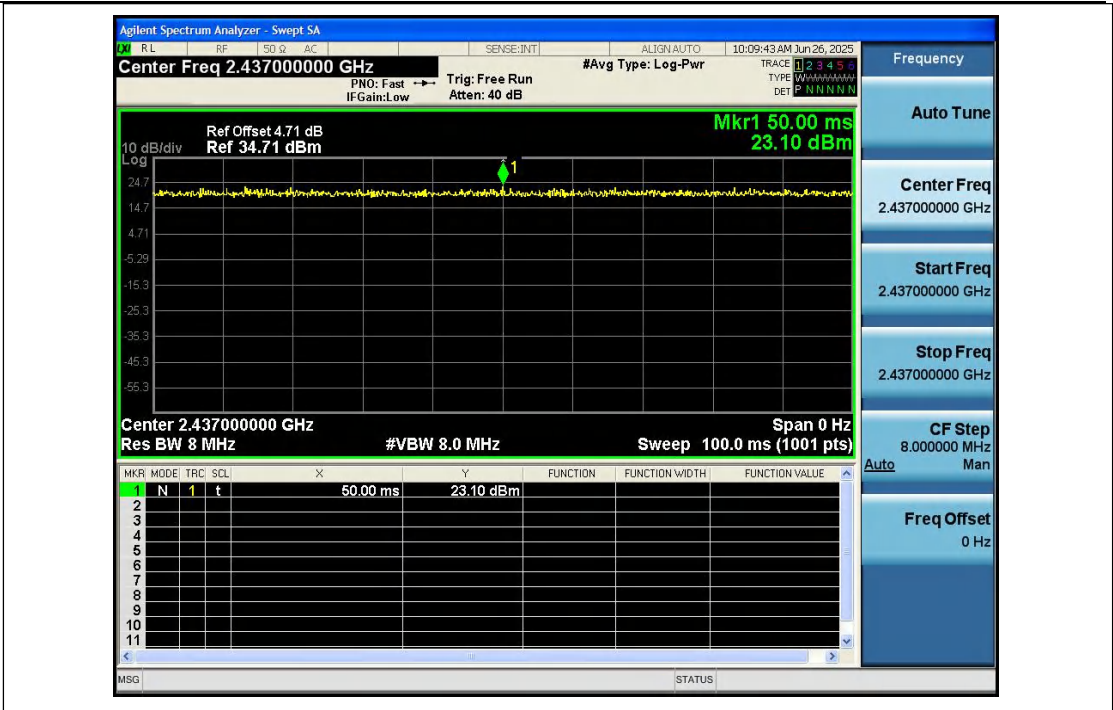
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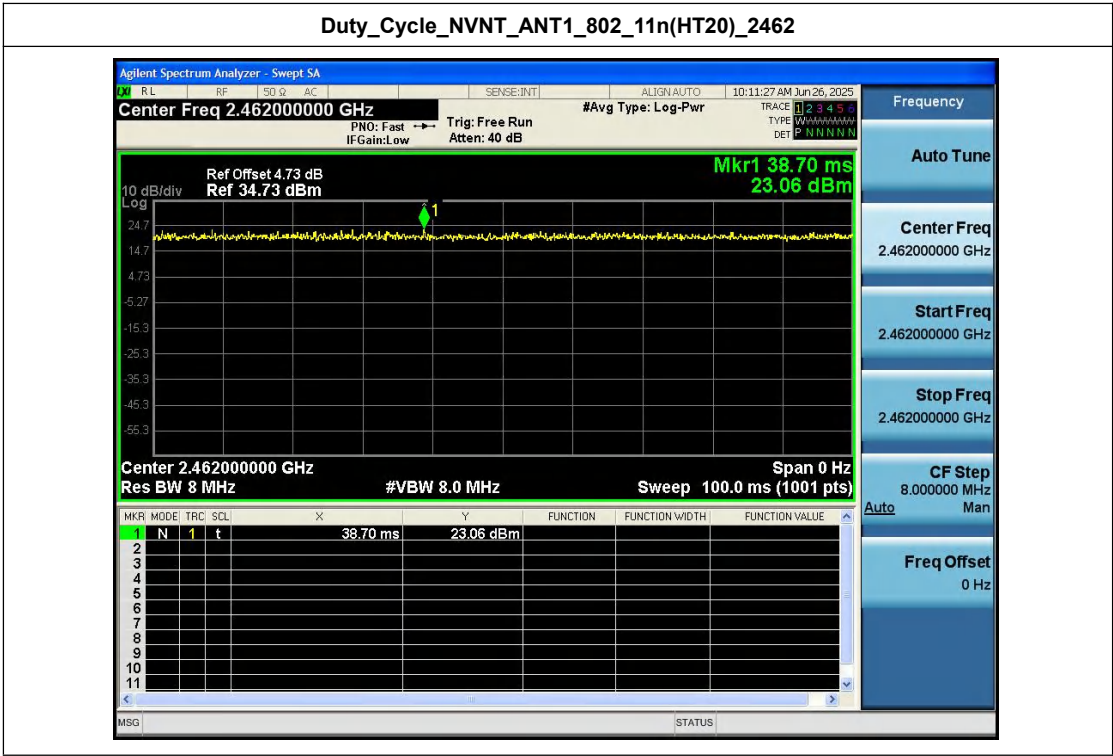
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



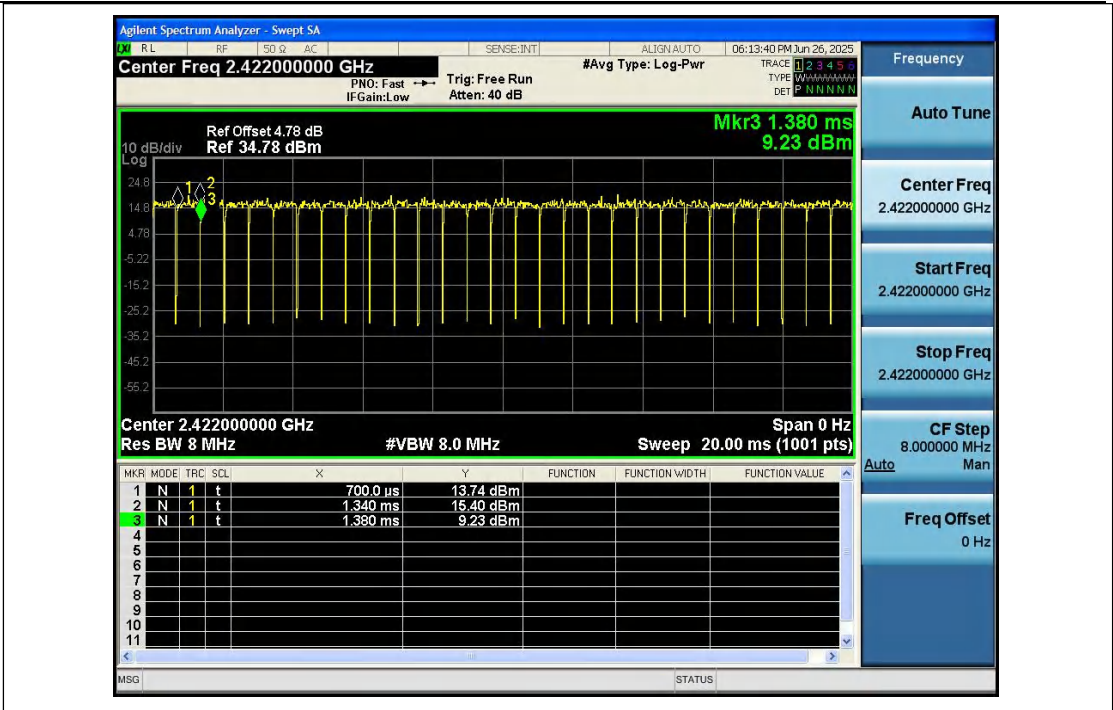
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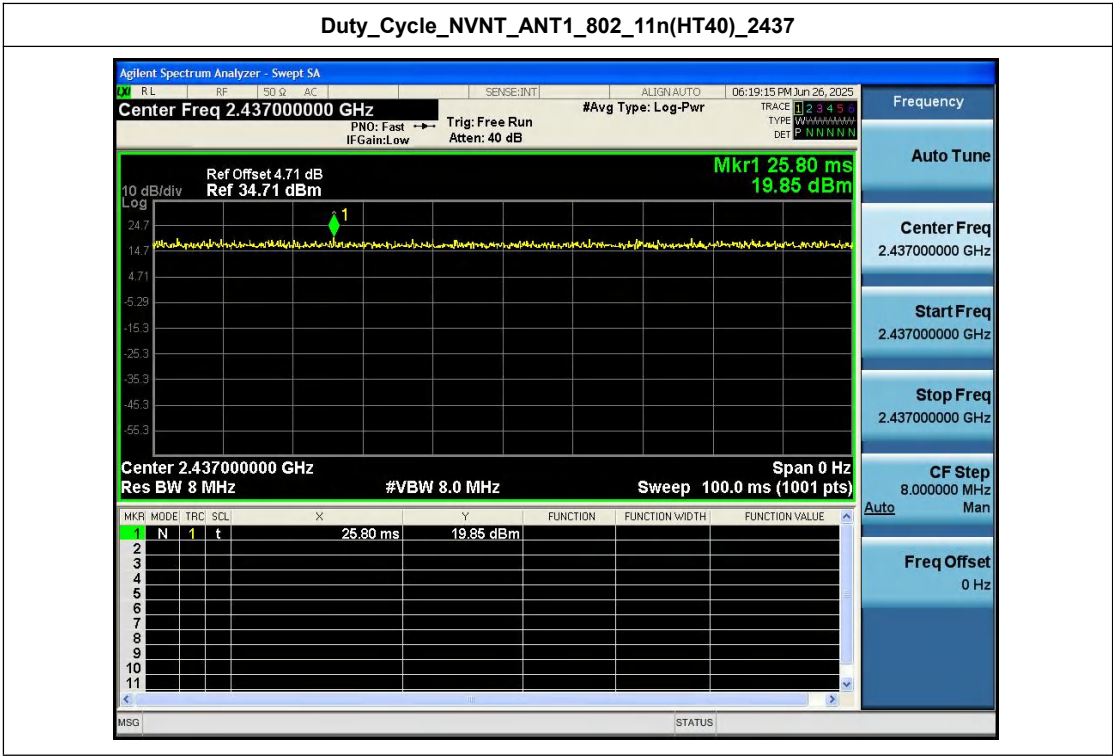
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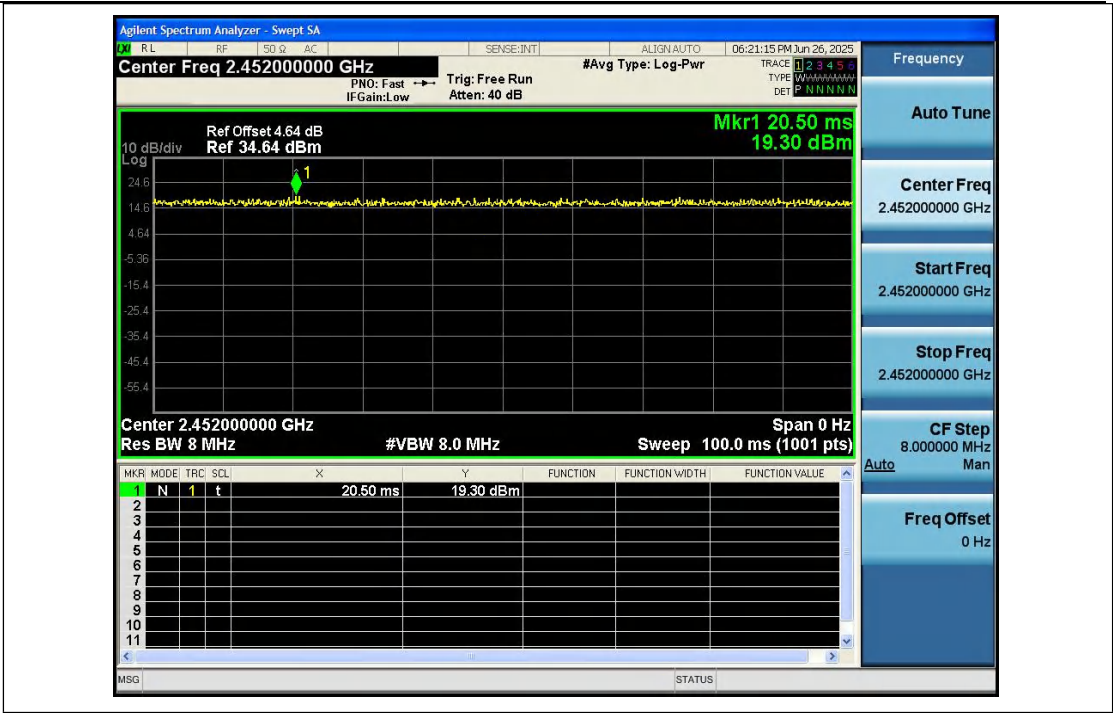
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2422



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2437



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2452



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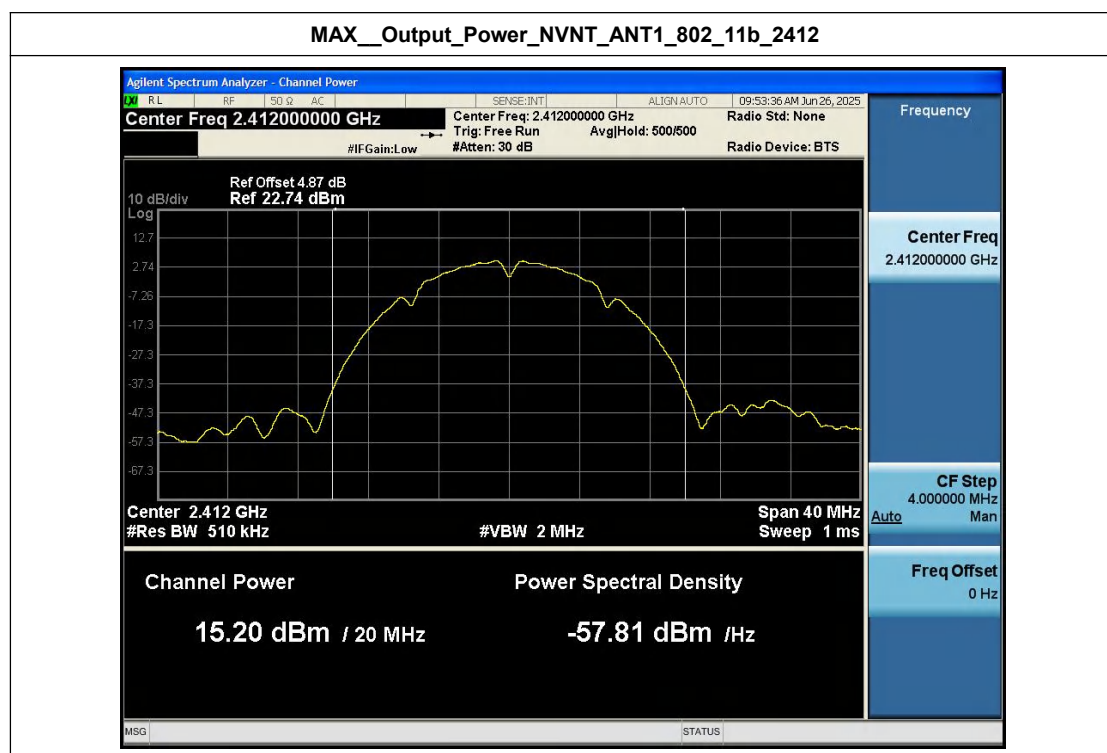
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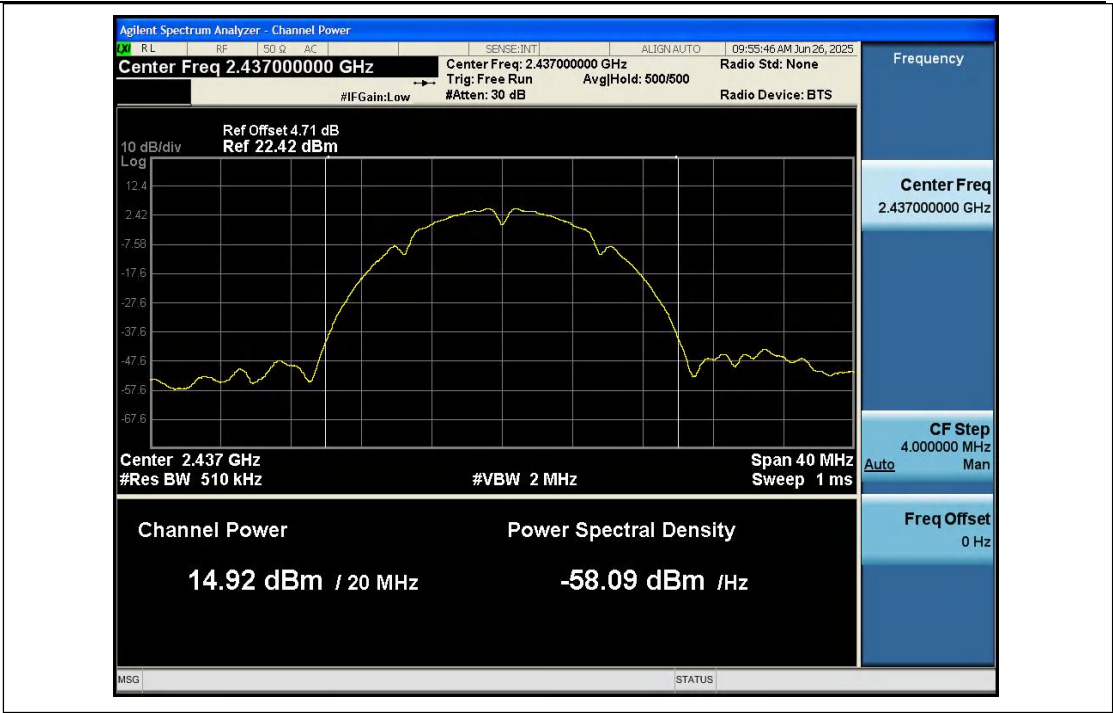
Appendix D: MAX. Output Power

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	15.20	0.00	15.20	30	Pass
NVNT	ANT1	802.11b	2437.00	RMS	14.92	0.00	14.92	30	Pass
NVNT	ANT1	802.11b	2462.00	RMS	14.74	0.00	14.74	30	Pass
NVNT	ANT1	802.11g	2412.00	RMS	15.39	0.00	15.39	30	Pass
NVNT	ANT1	802.11g	2437.00	RMS	14.85	0.00	14.85	30	Pass
NVNT	ANT1	802.11g	2462.00	RMS	14.77	0.00	14.77	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	RMS	15.26	0.00	15.26	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	RMS	14.72	0.00	14.72	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	RMS	14.65	0.00	14.65	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	RMS	14.51	0.13	14.64	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	RMS	13.99	0.00	13.99	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	RMS	13.81	0.00	13.81	30	Pass

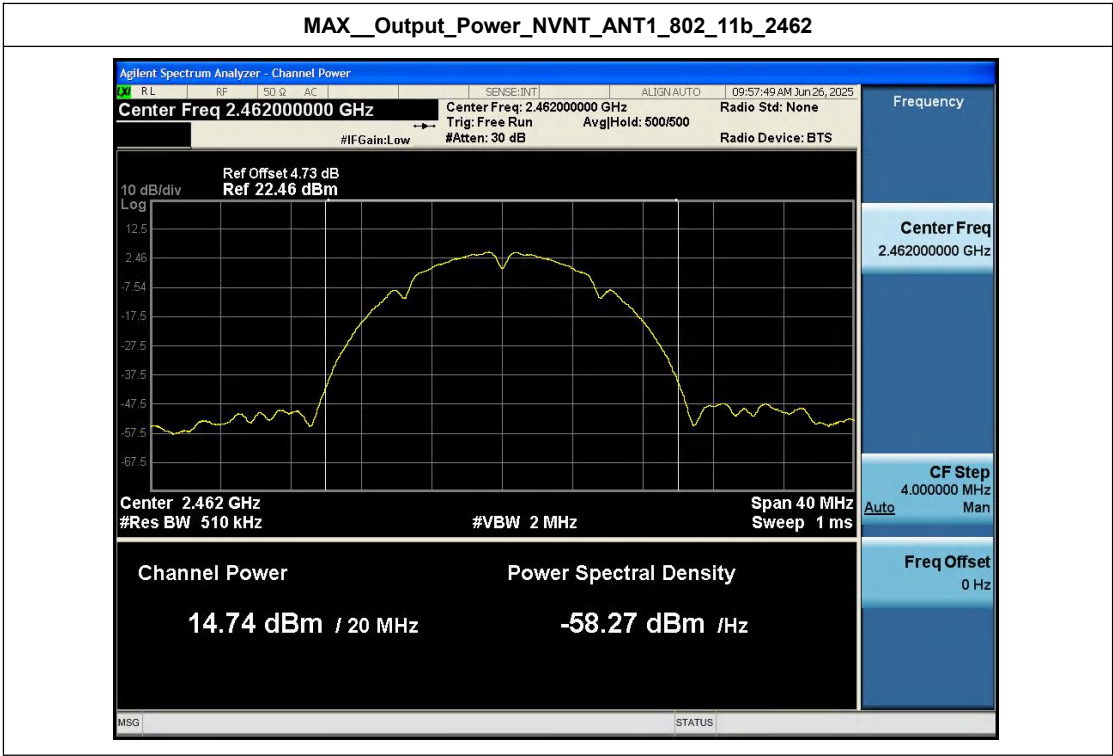
Note: 1. The cable loss are compensated in the graph.



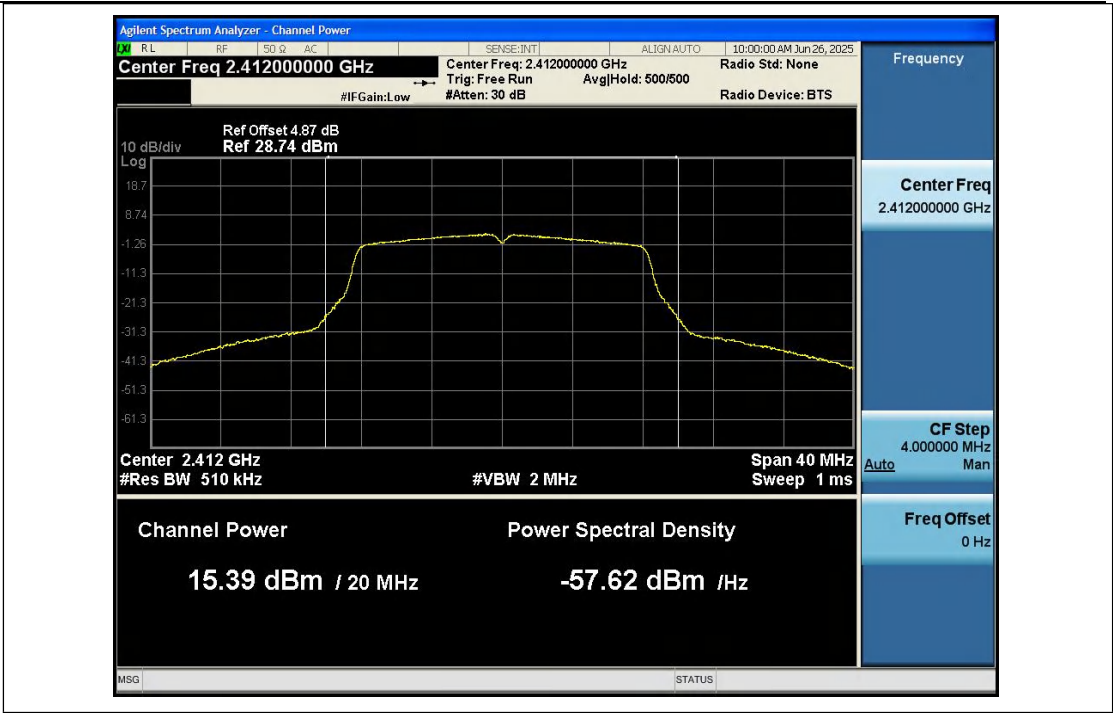
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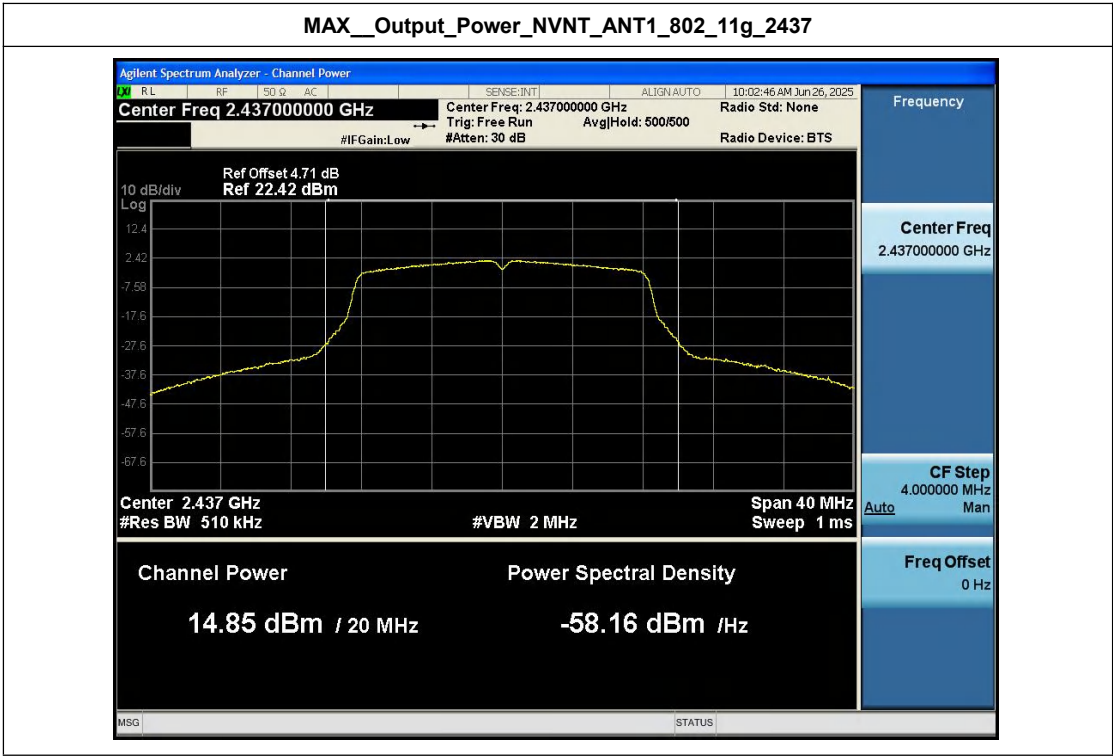
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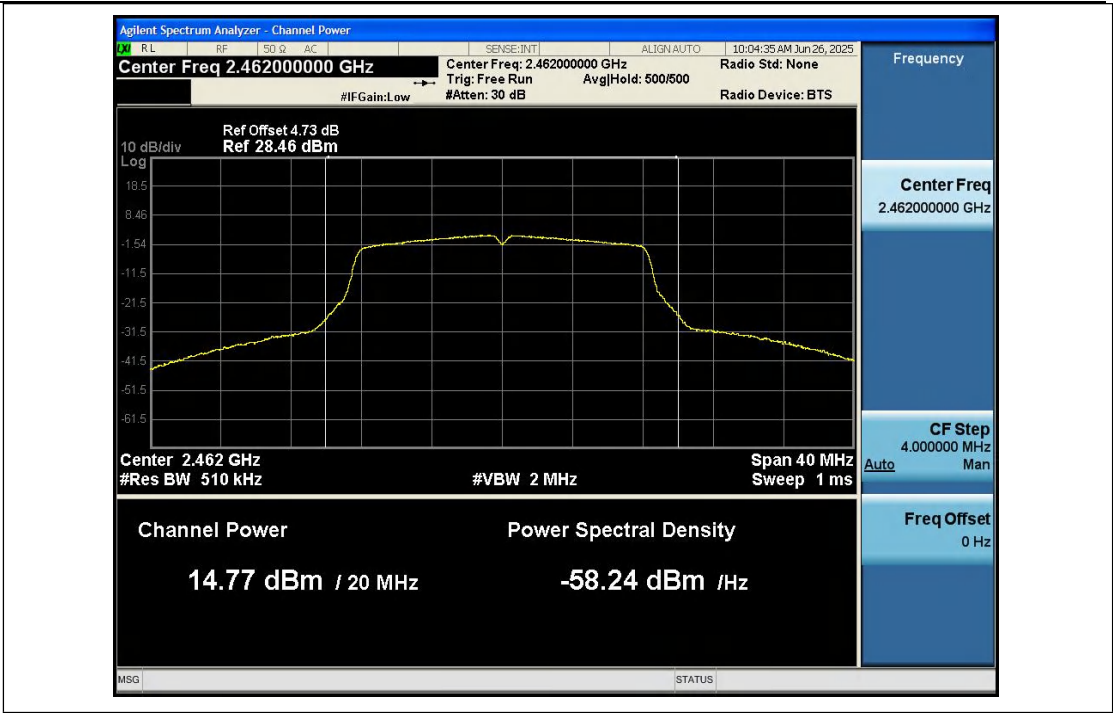
MAX__Output_Power_NVNT_ANT1_802_11g_2412



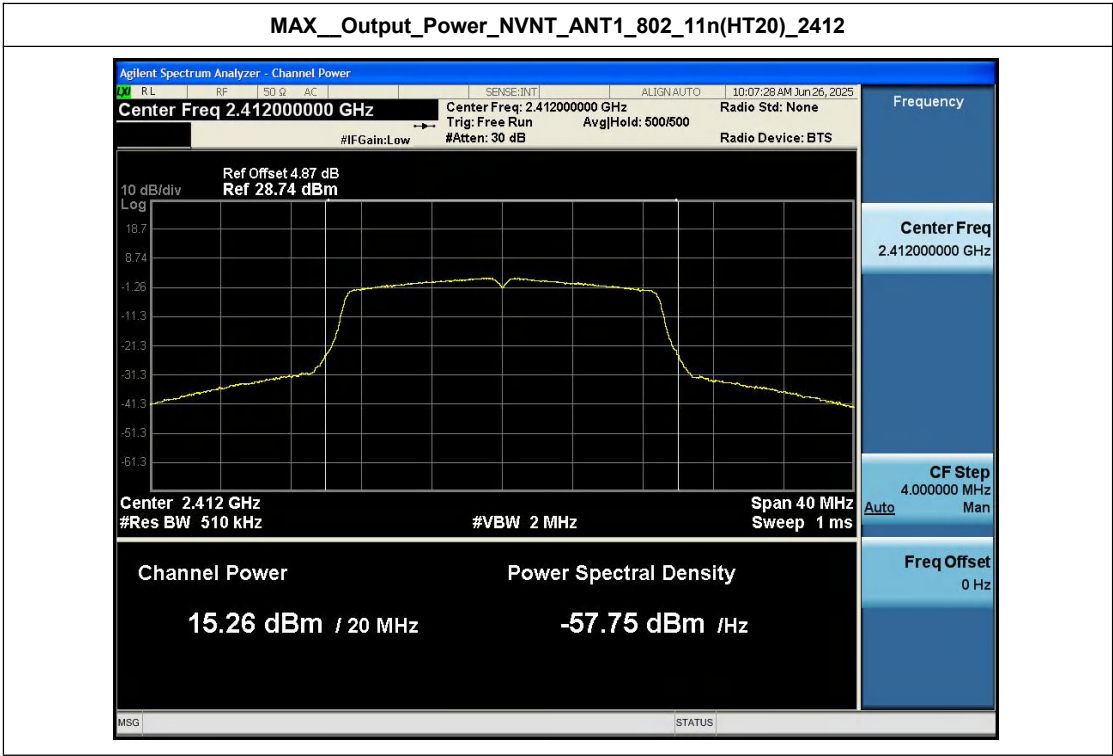
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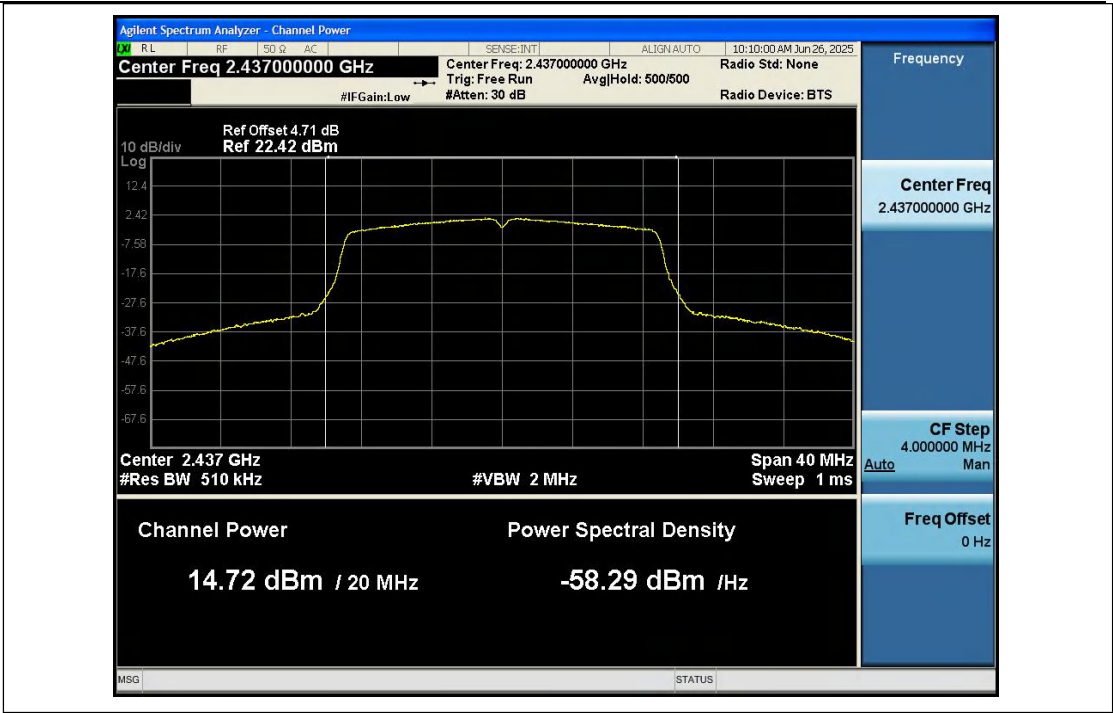
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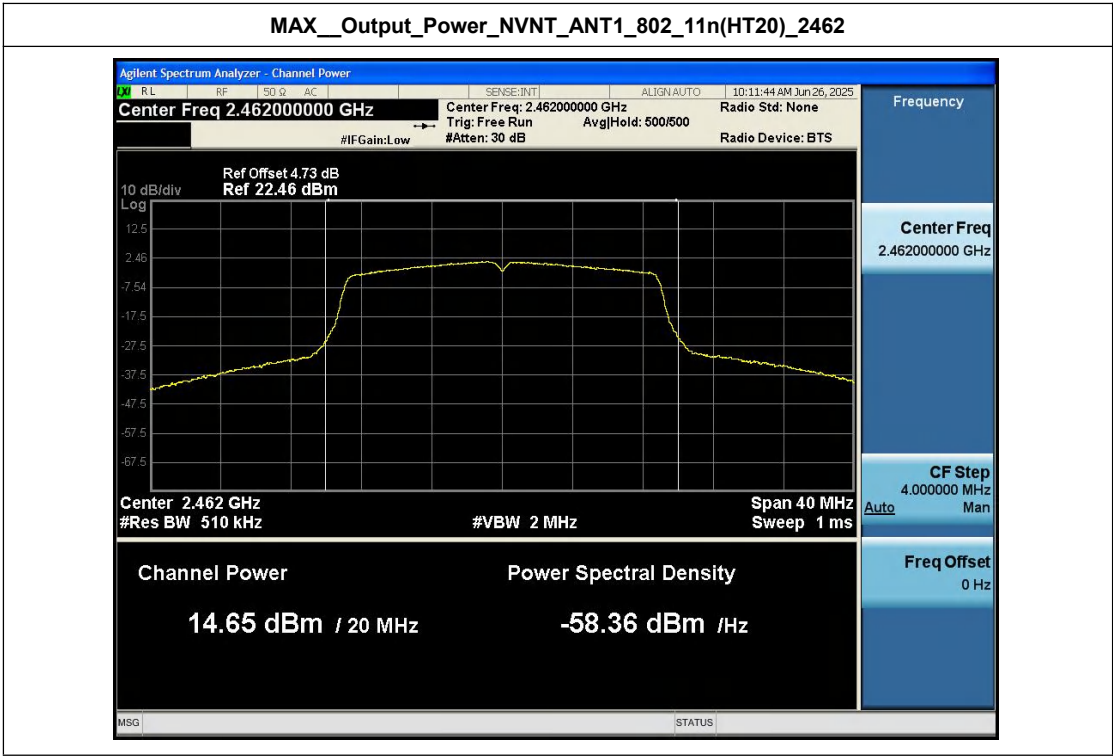
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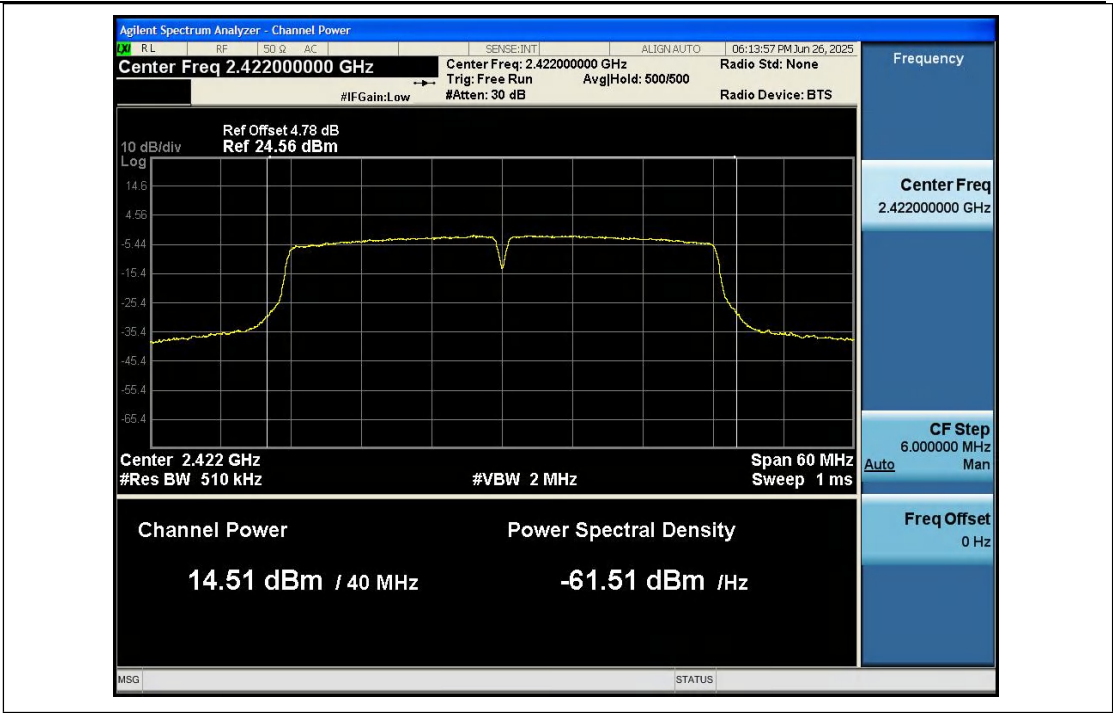
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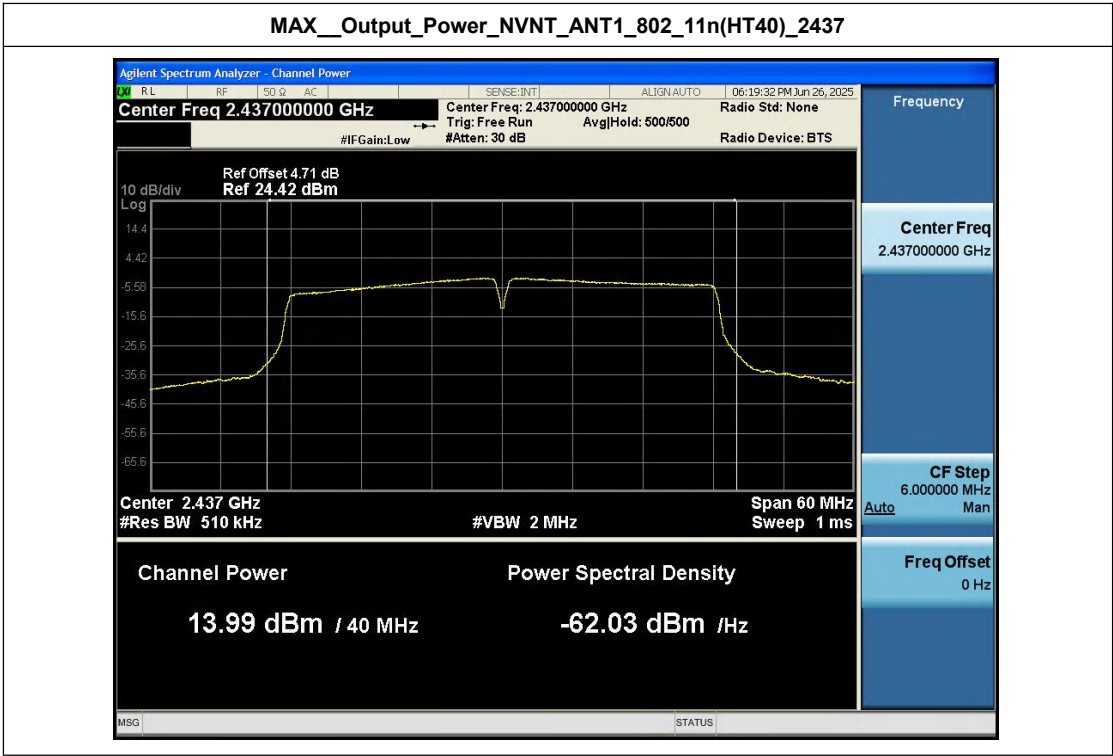
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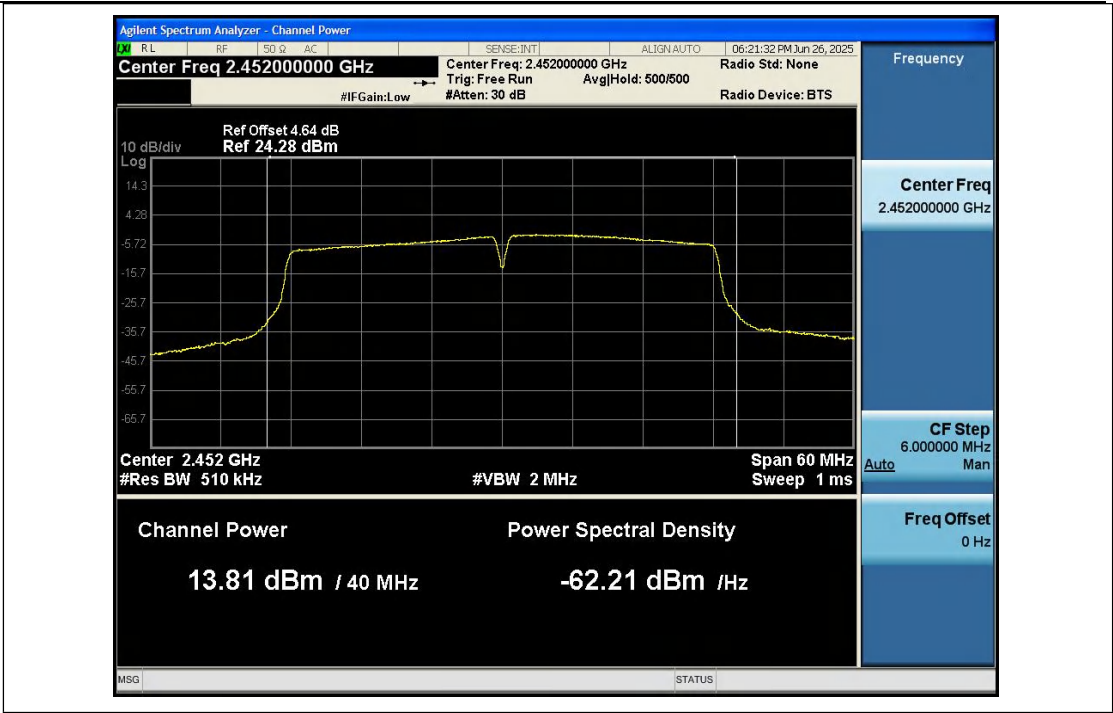
MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2422



MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2437



MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2452



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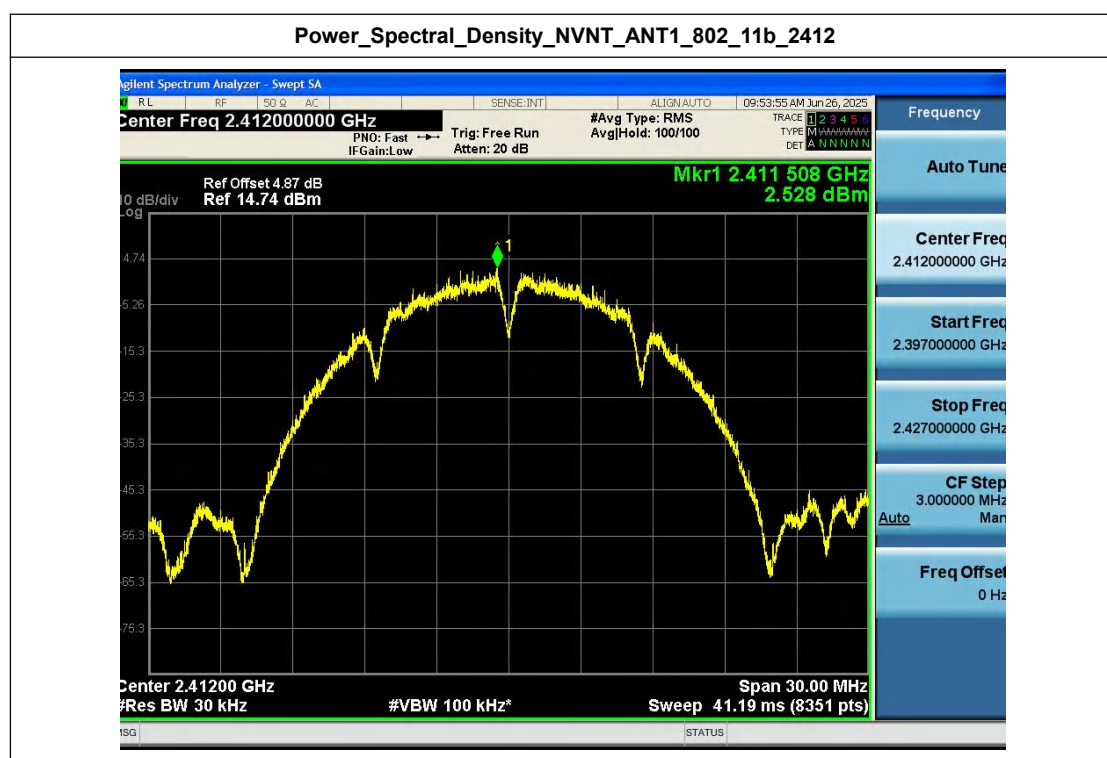
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Appendix E: Power Spectral Density

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	2.53	0.00	-10.00	-7.47	8	Pass
NVNT	ANT1	802.11b	2437.00	2.61	0.00	-10.00	-7.39	8	Pass
NVNT	ANT1	802.11b	2462.00	2.71	0.00	-10.00	-7.29	8	Pass
NVNT	ANT1	802.11g	2412.00	-0.18	0.00	-10.00	-10.19	8	Pass
NVNT	ANT1	802.11g	2437.00	-0.11	0.00	-10.00	-10.11	8	Pass
NVNT	ANT1	802.11g	2462.00	0.39	0.00	-10.00	-9.61	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-0.47	0.00	-10.00	-10.47	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-0.41	0.00	-10.00	-10.41	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-0.65	0.00	-10.00	-10.65	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-3.76	0.13	-10.00	-13.63	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-5.33	0.00	-10.00	-15.33	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-3.57	0.00	-10.00	-13.57	8	Pass

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

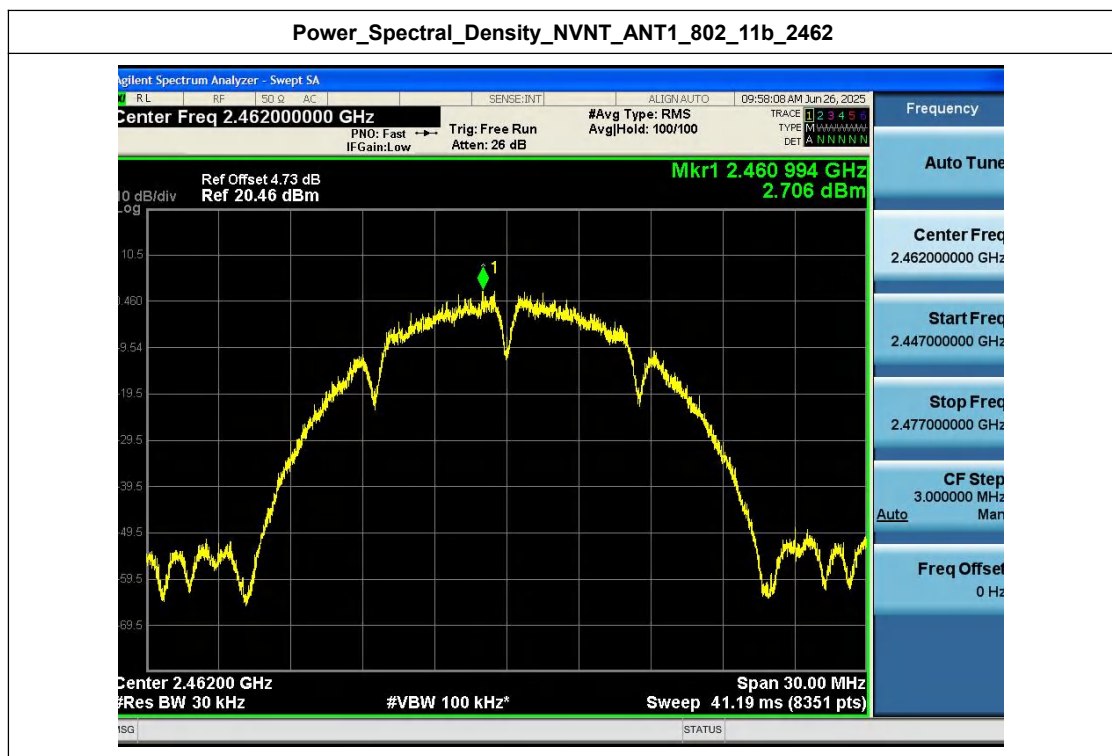
2.PSD(dBm/3kHz)= PSD(dBm/30kHz)- (10*log(30/3)).



Power_Spectral_Density_NVNT_ANT1_802_11b_2437



Power_Spectral_Density_NVNT_ANT1_802_11b_2462

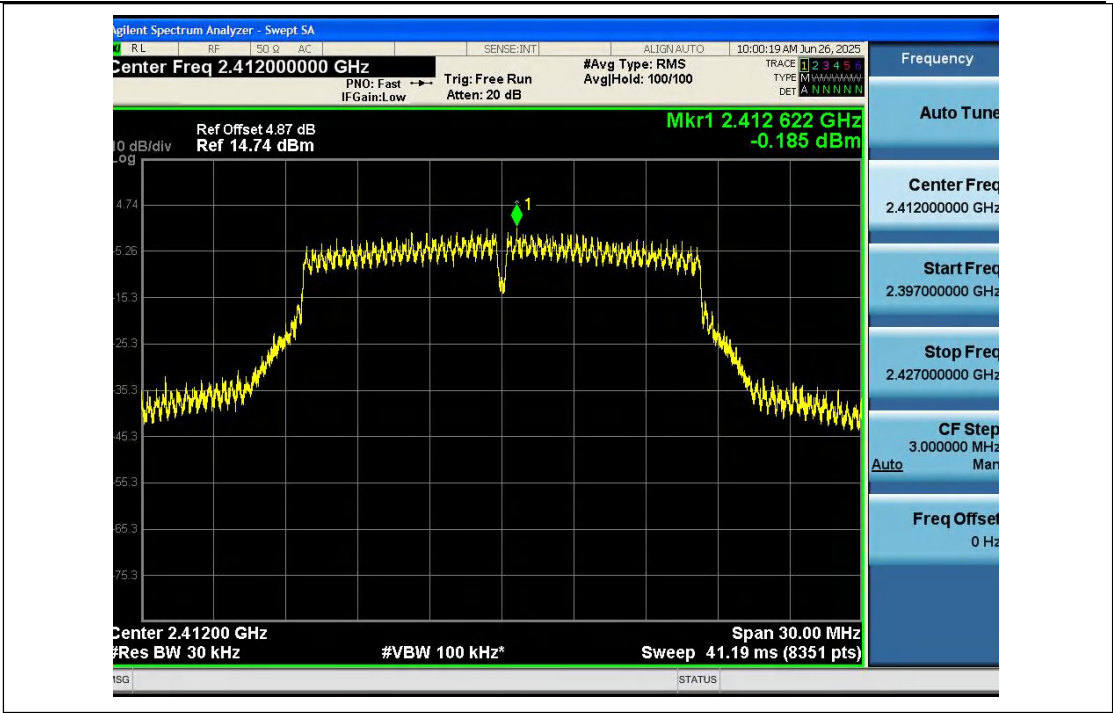


Power_Spectral_Density_NVNT_ANT1_802_11g_2412

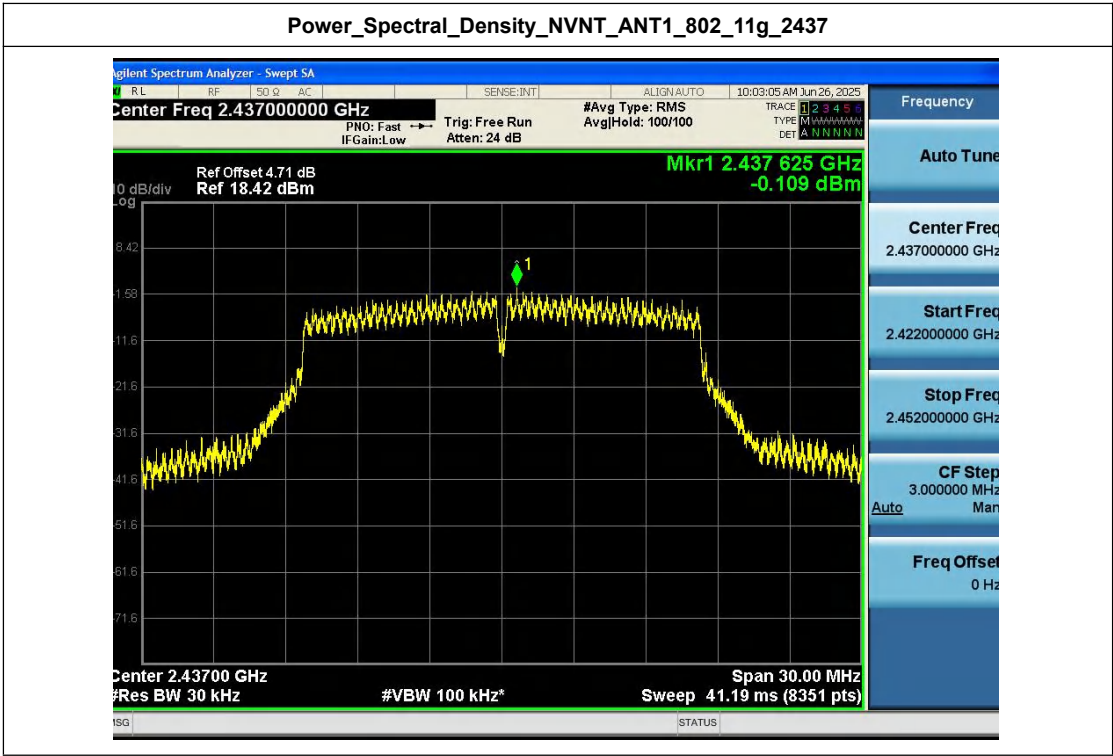
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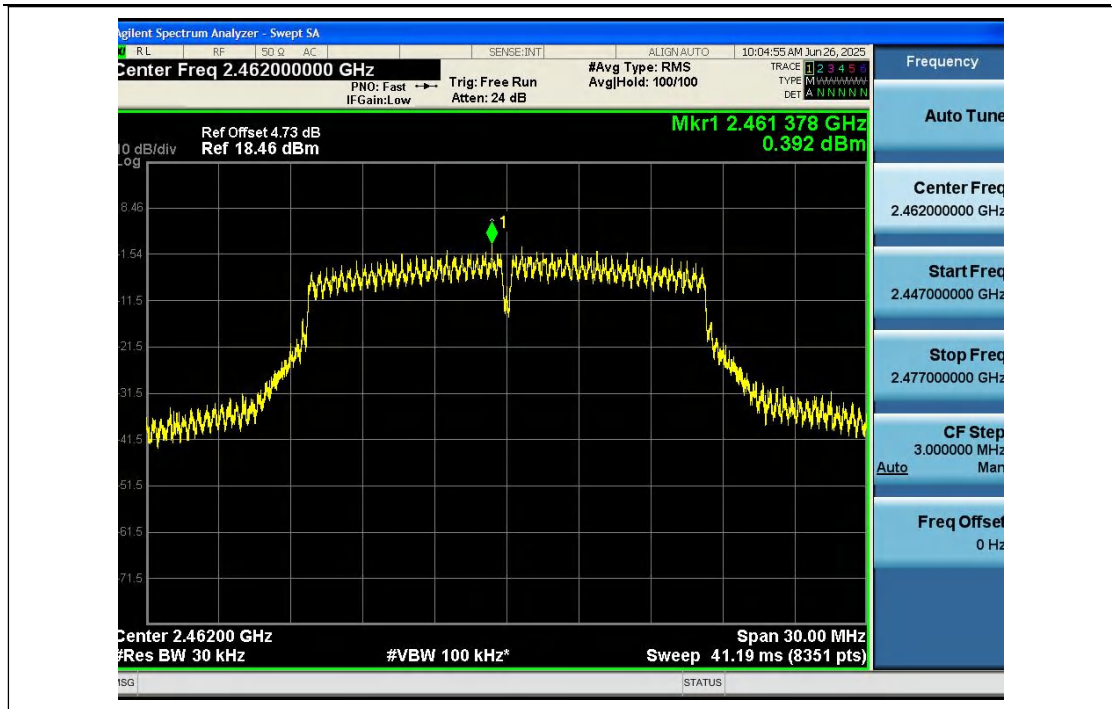
Hotline: 400-003-0500 web: www.anbotek.com E-mail: service@anbotek.com



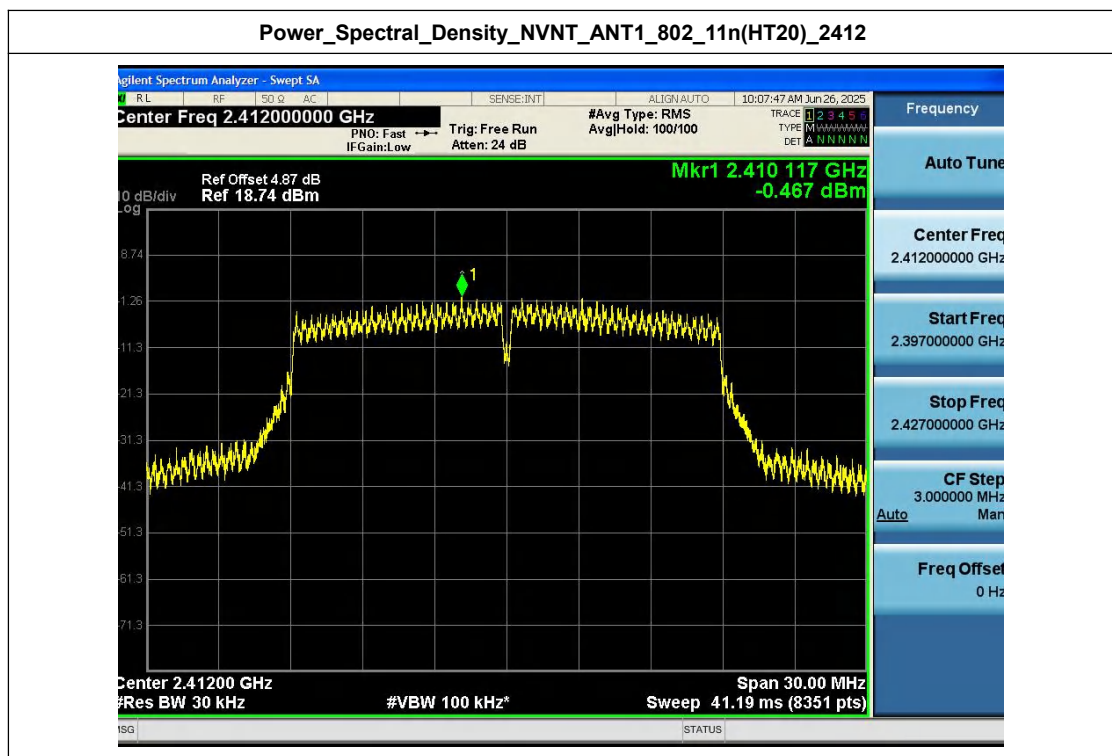
Power_Spectral_Density_NVNT_ANT1_802_11g_2437



Power_Spectral_Density_NVNT_ANT1_802_11g_2462



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437

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