

Appendix Test Data

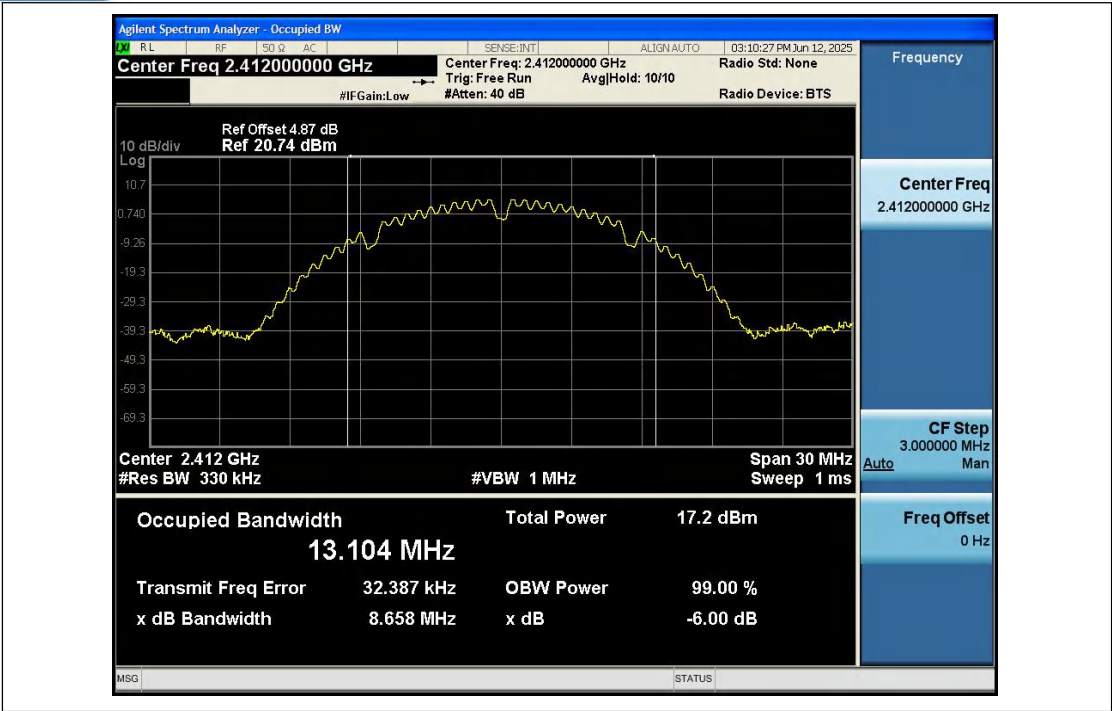
Report No.:	1812C50277212501	Test Sample No.:	1-2-2
Start Test Date:	2025.6.10	Finish Test Date:	2025.7.17
Test Engineer:	<i>Liangfei Yang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	24.5°C	Relative Humidity:	55%
Pressure:	101kPa		

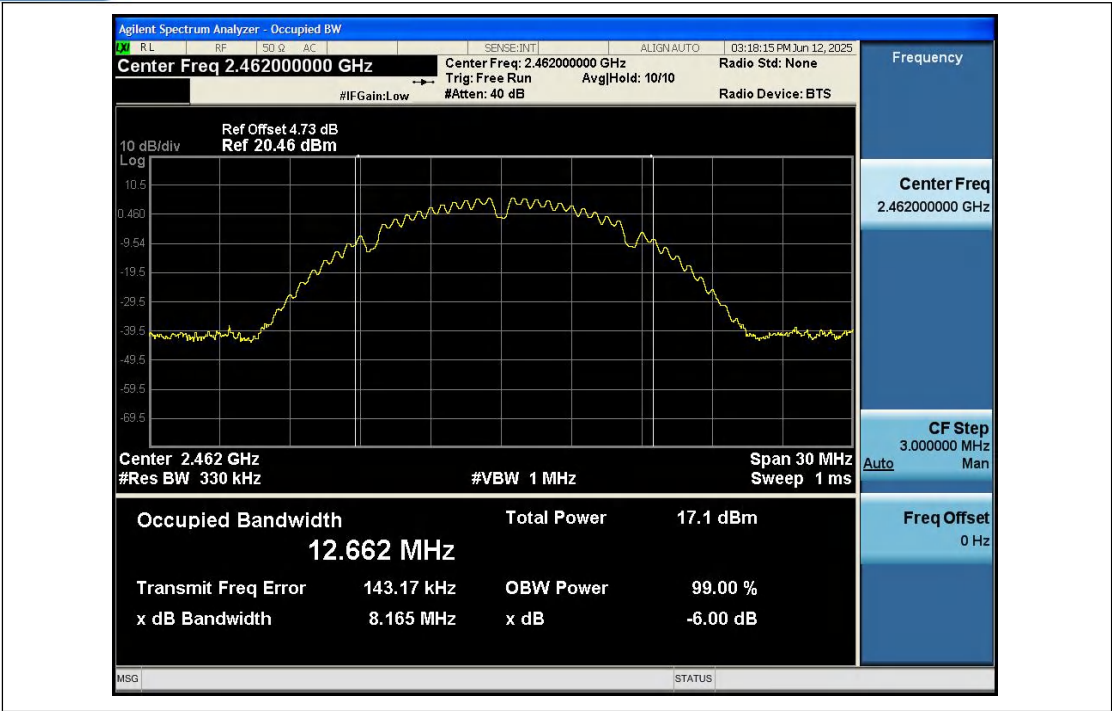
Appendix A: -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	8.66	500	Pass
NVNT	ANT1	802.11b	2437.00	8.63	500	Pass
NVNT	ANT1	802.11b	2462.00	8.17	500	Pass
NVNT	ANT1	802.11g	2412.00	16.27	500	Pass
NVNT	ANT1	802.11g	2437.00	16.16	500	Pass
NVNT	ANT1	802.11g	2462.00	15.68	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.60	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.39	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.20	500	Pass

-6dB_Bandwidth_NVNT_ANT1_802_11b_2412

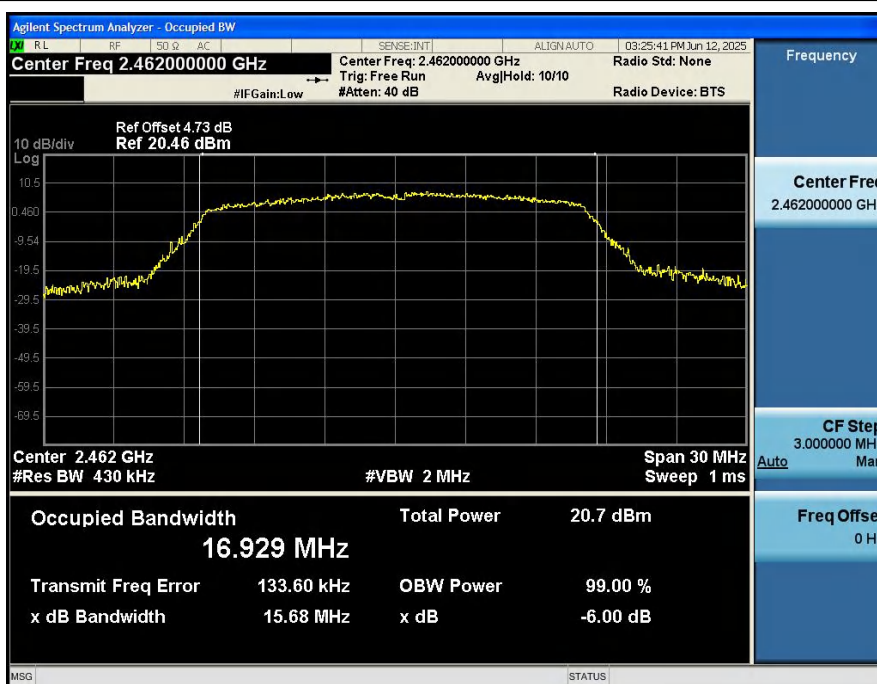




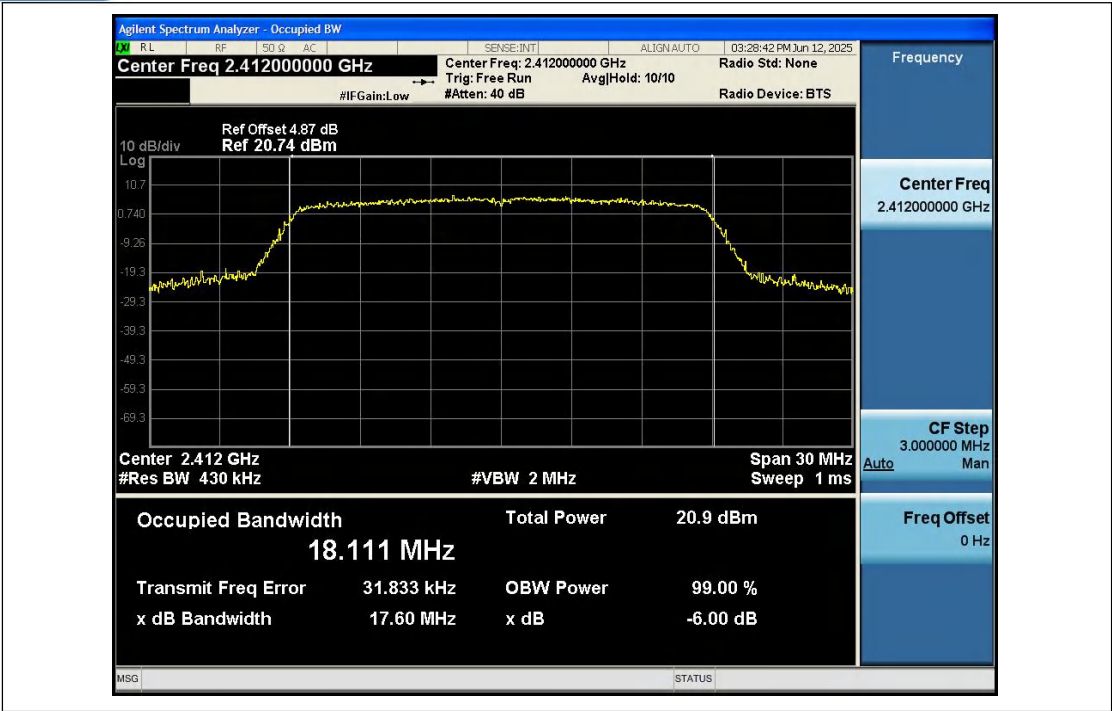




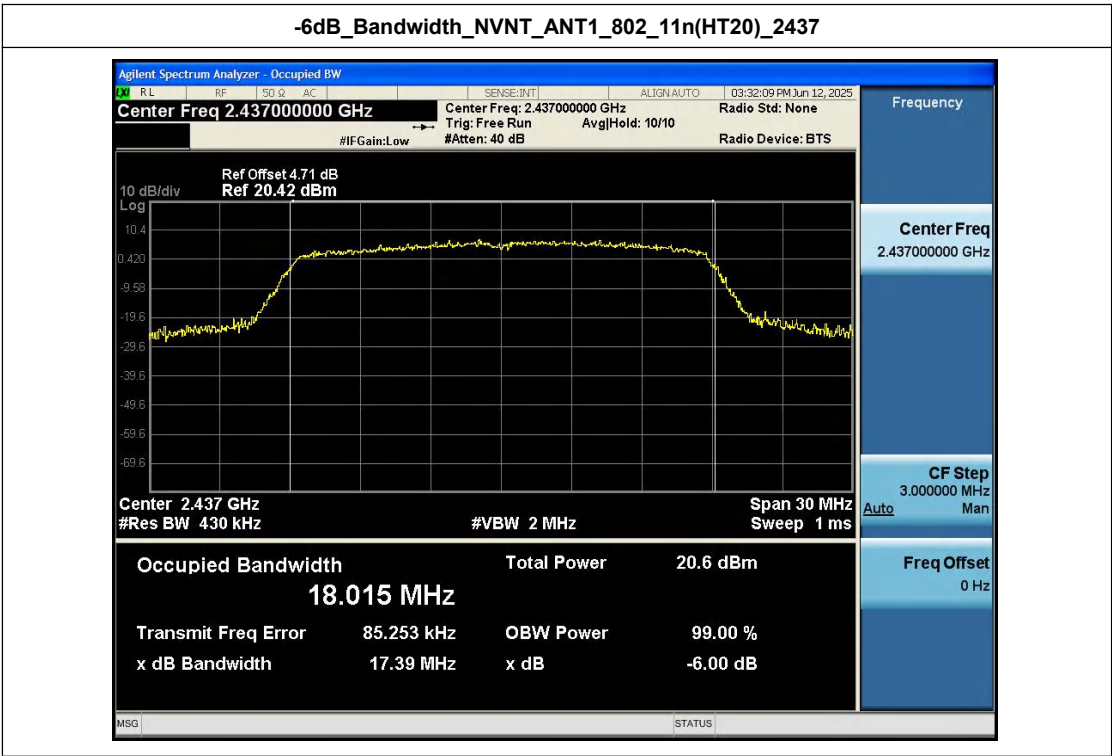
-6dB_Bandwidth_NVNT_ANT1_802_11g_2462



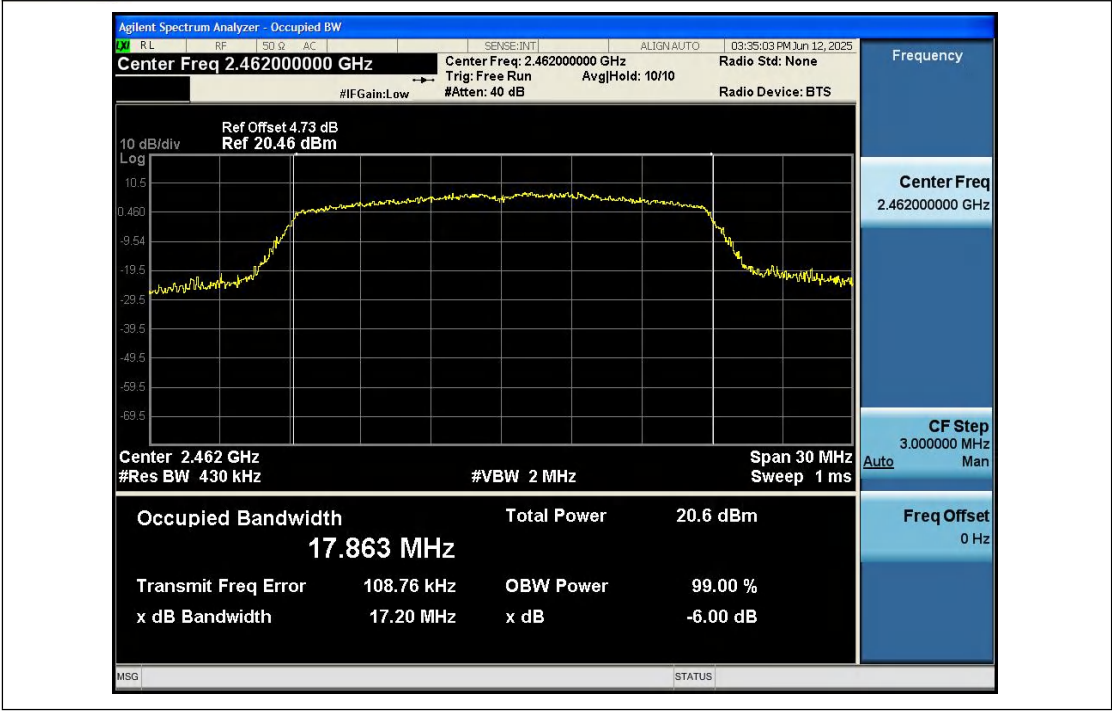
-6dB Bandwidth NVNT ANT1 802 11n(HT20) 2412



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



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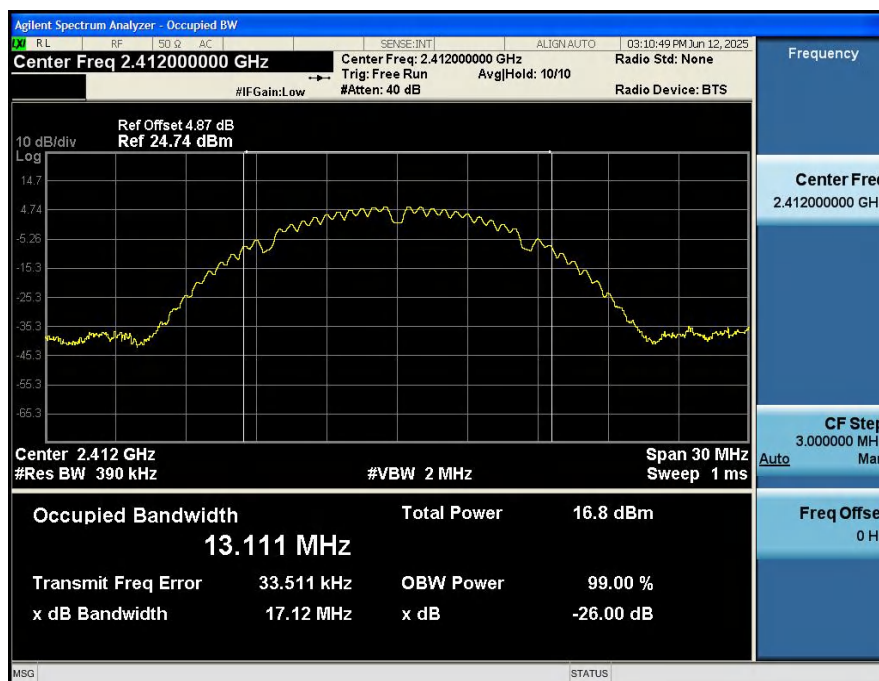
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park,
Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Tel: (86) 0755-26066440 Email: service@anbotek.com

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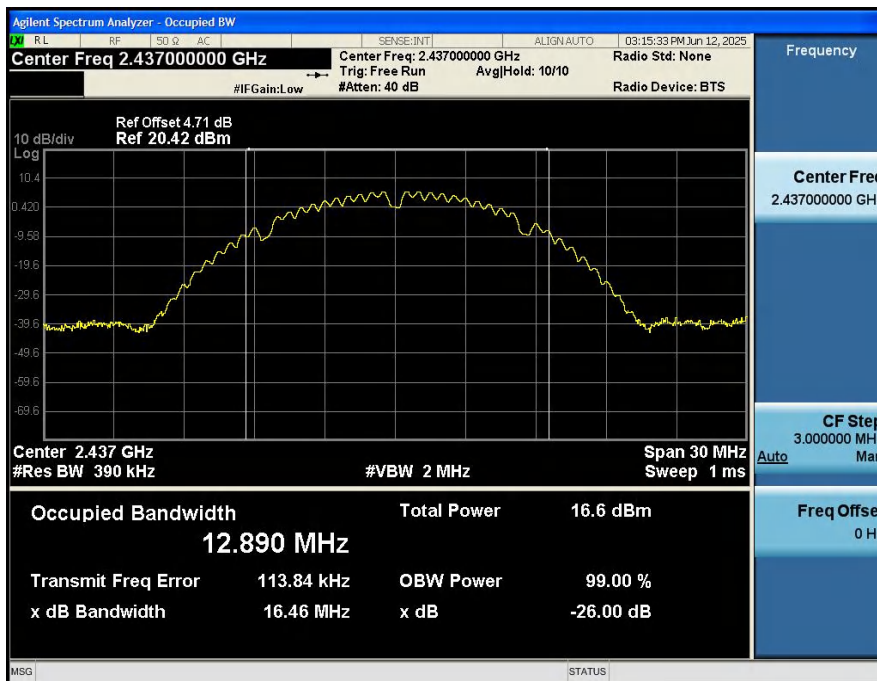
Appendix B: 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%BW(MHz)
NVNT	ANT1	802.11b	2412.00	13.111
NVNT	ANT1	802.11b	2437.00	12.890
NVNT	ANT1	802.11b	2462.00	12.668
NVNT	ANT1	802.11g	2412.00	17.372
NVNT	ANT1	802.11g	2437.00	17.212
NVNT	ANT1	802.11g	2462.00	17.105
NVNT	ANT1	802.11n(HT20)	2412.00	18.314
NVNT	ANT1	802.11n(HT20)	2437.00	18.121
NVNT	ANT1	802.11n(HT20)	2462.00	18.031

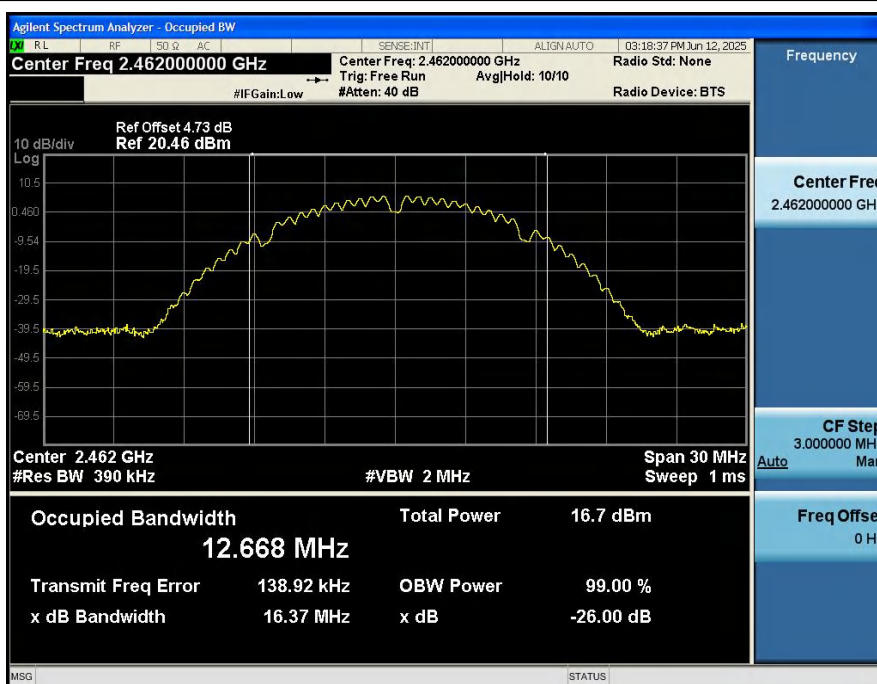
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2412



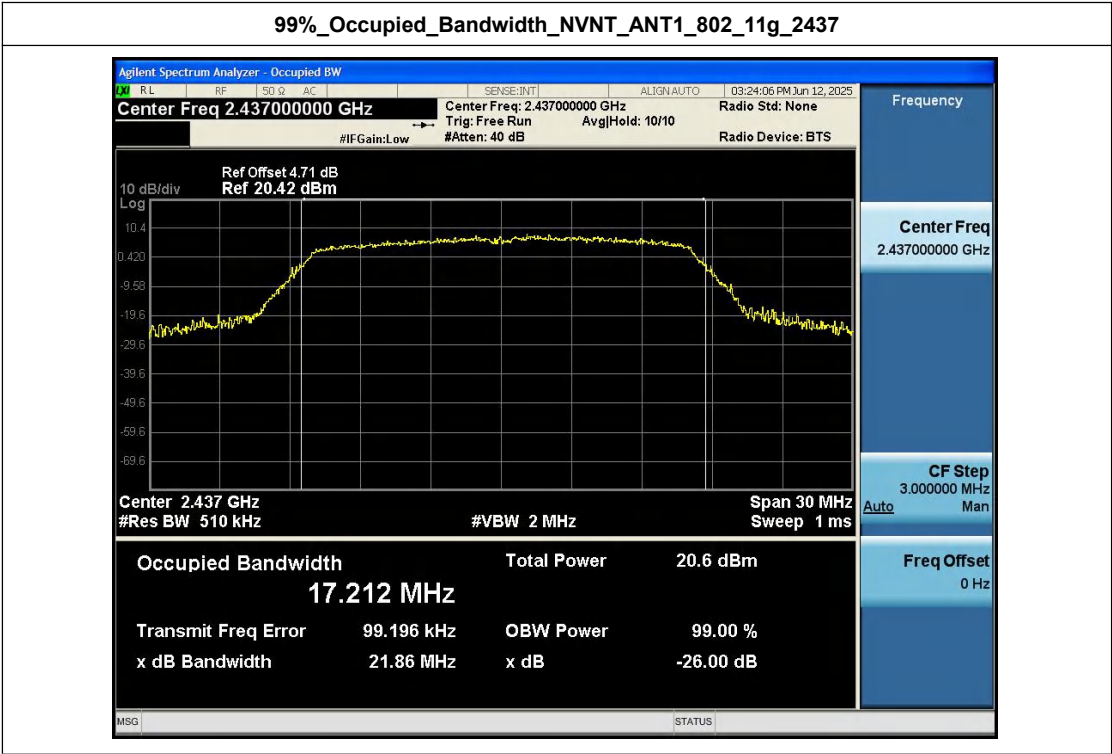
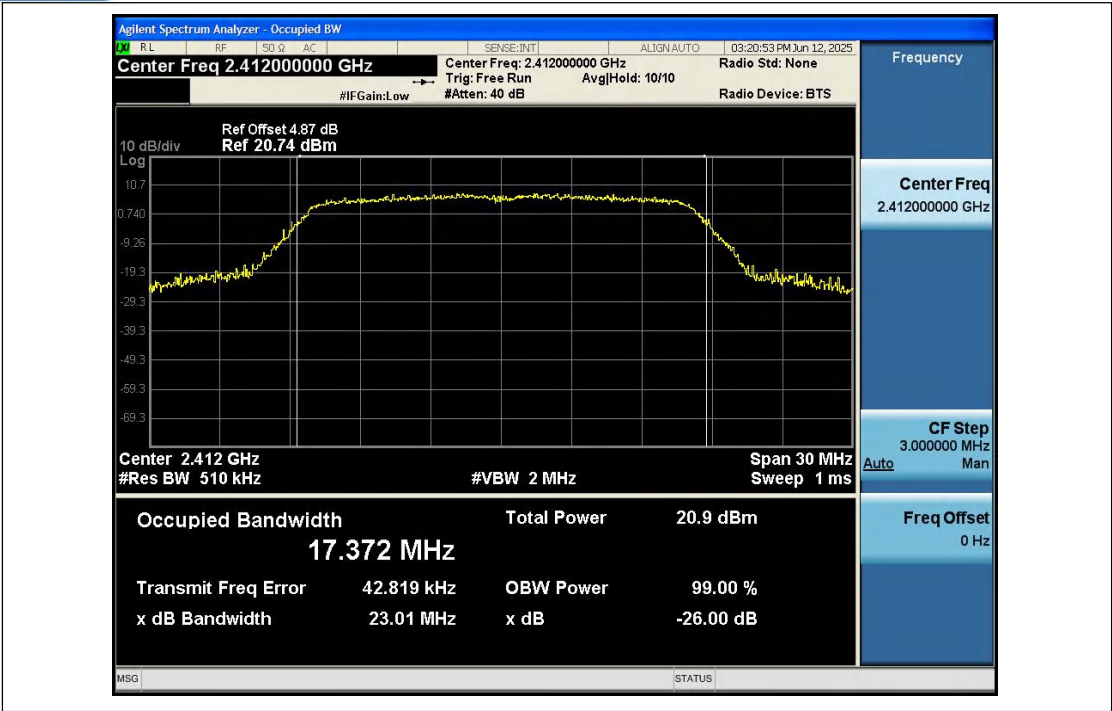
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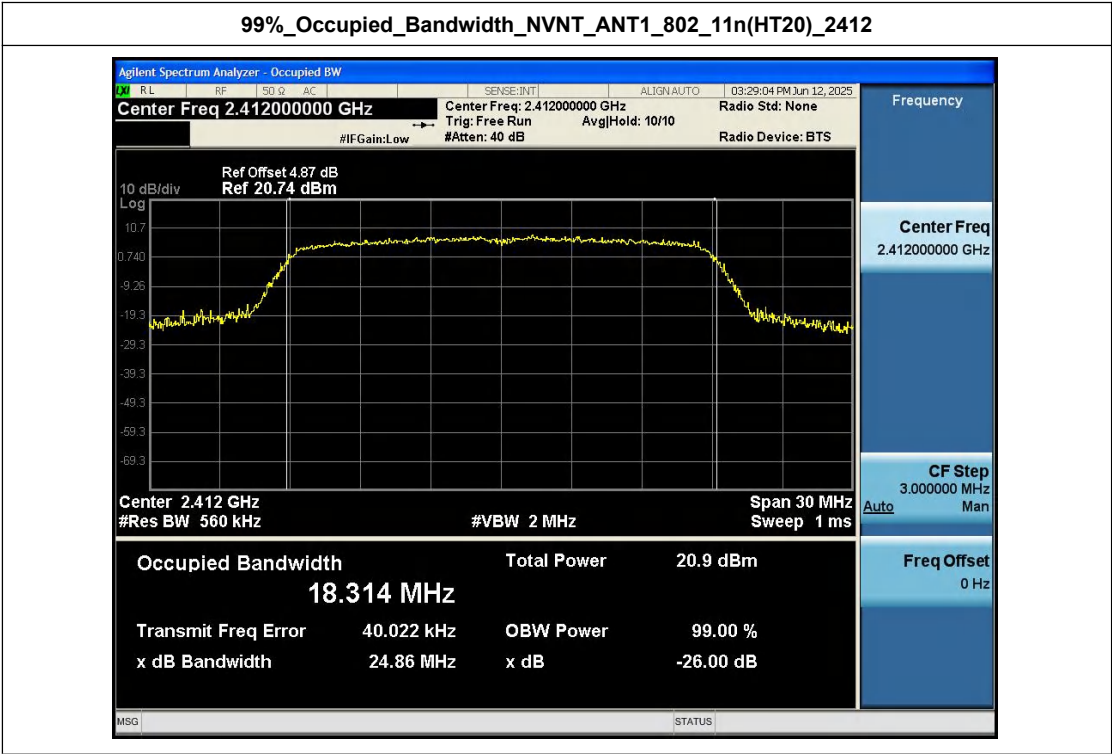
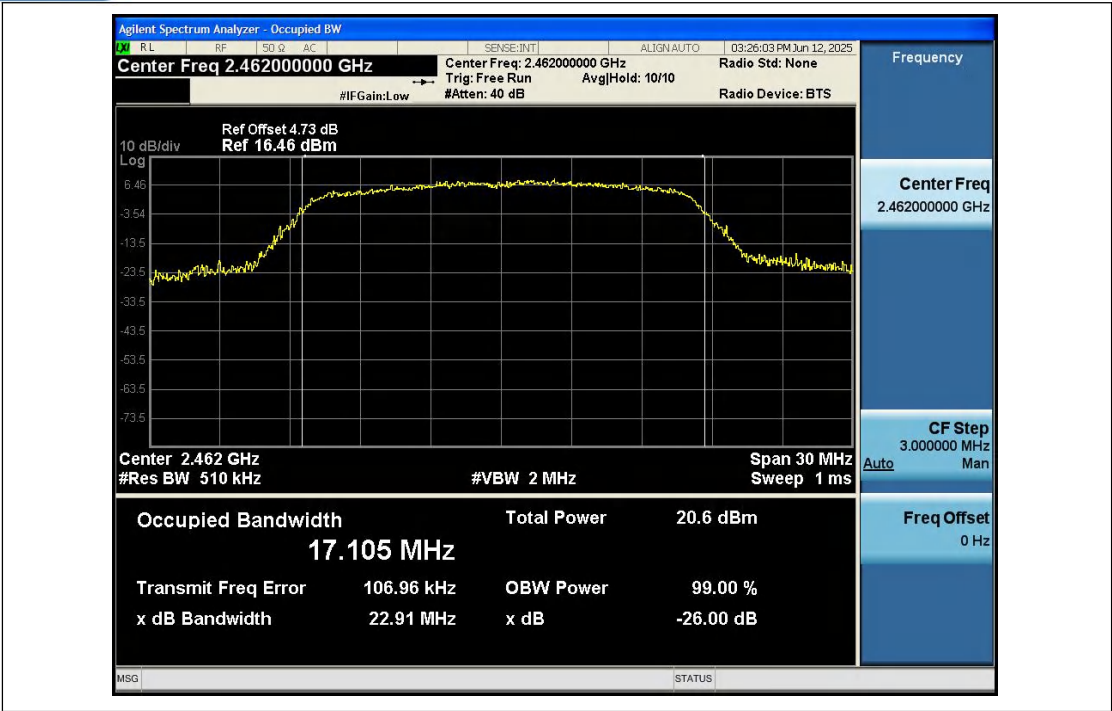
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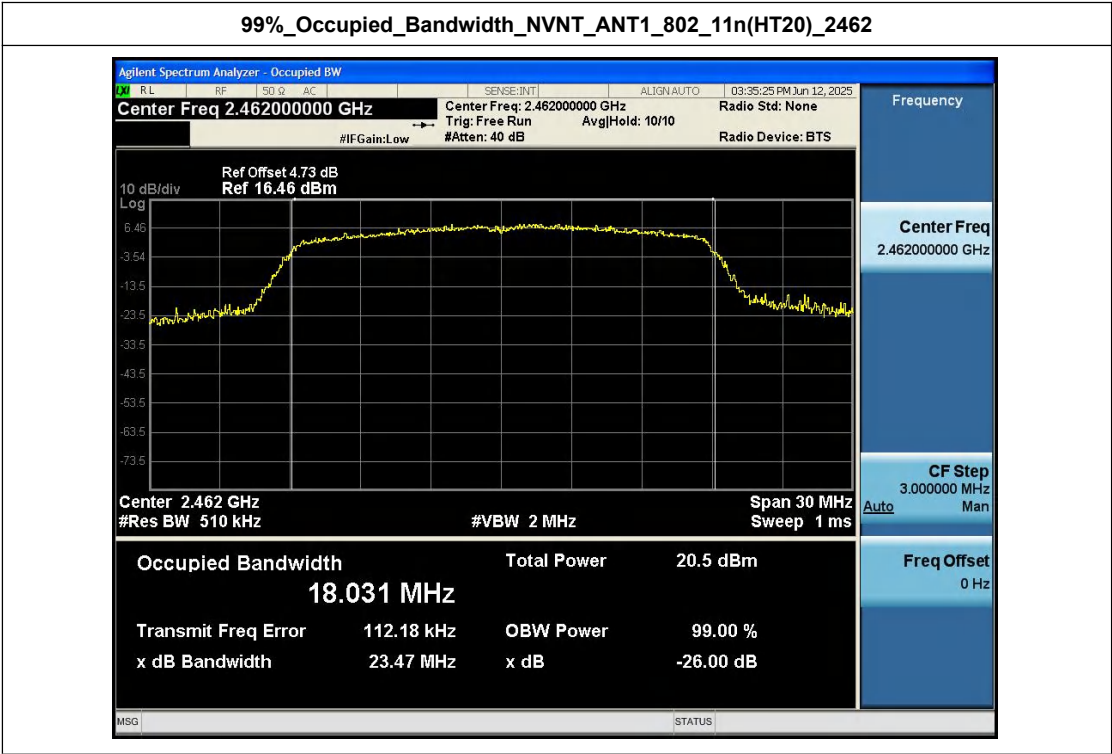
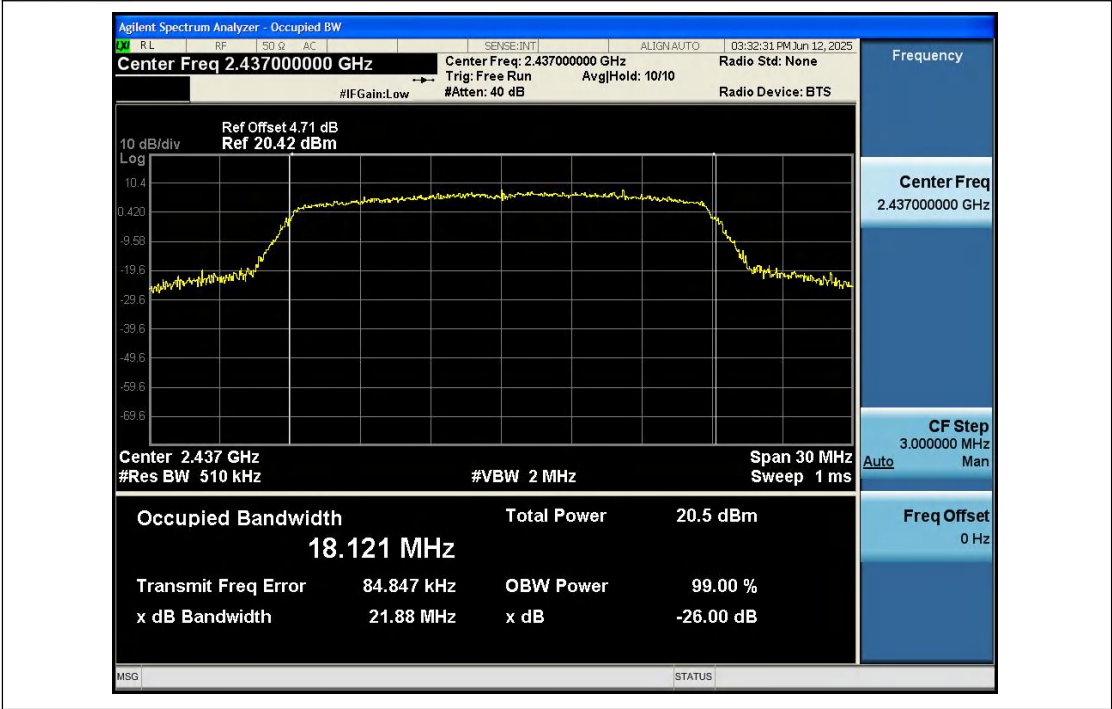
99% Occupied Bandwidth NVNT ANT1 802 11g 2412



99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2462



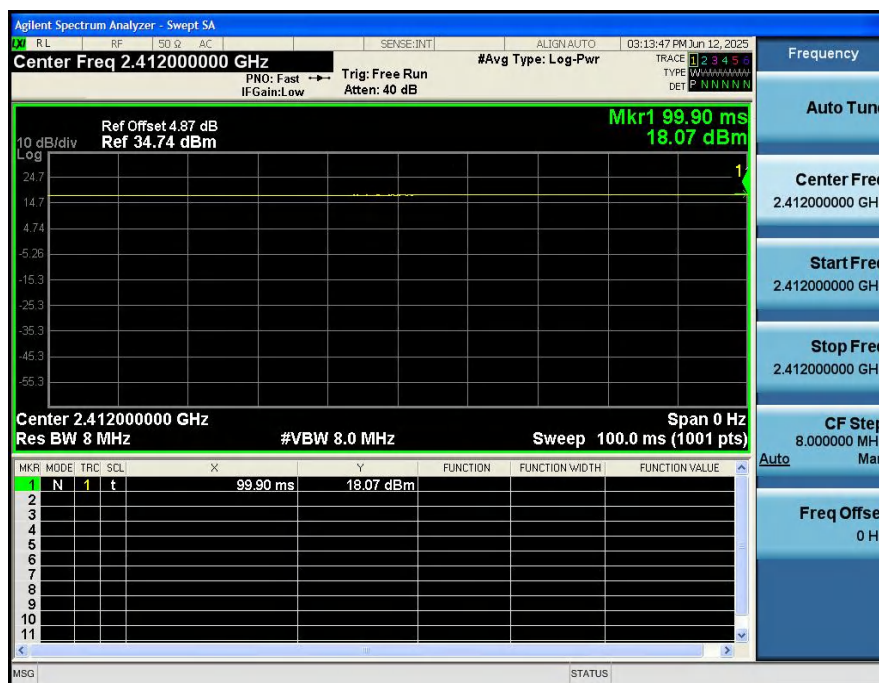
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



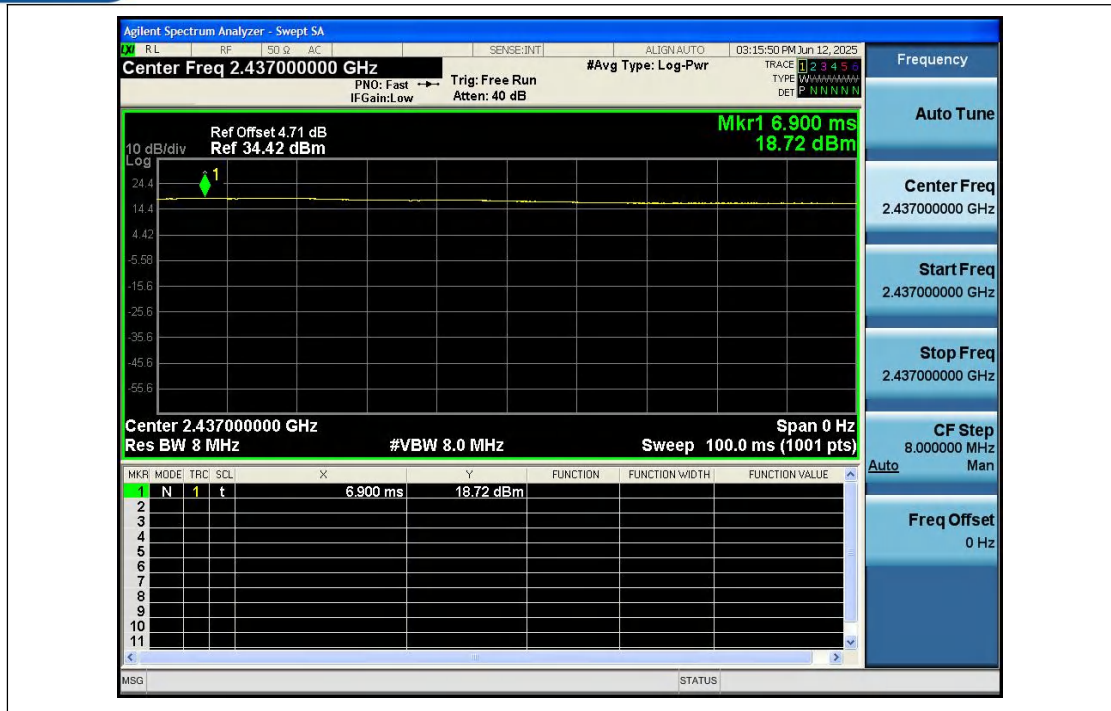
Appendix C: Duty Cycle

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

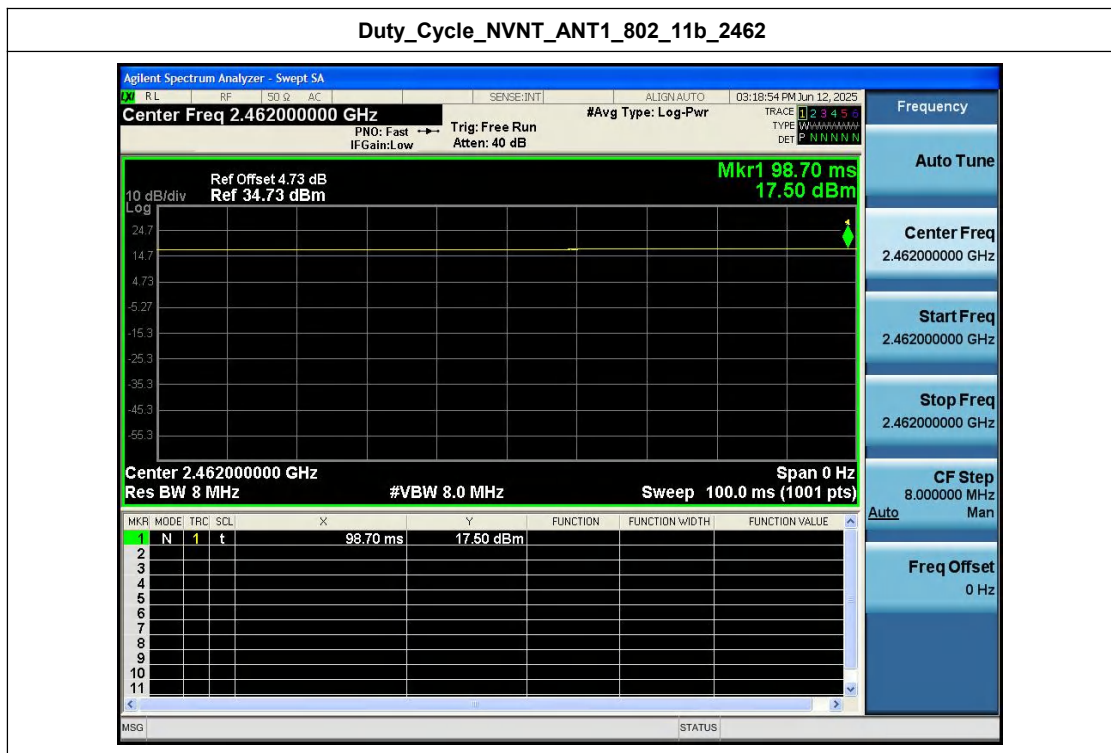
Duty_Cycle_NVNT_ANT1_802_11b_2412



Duty_Cycle_NVNT_ANT1_802_11b_2437



Duty_Cycle_NVNT_ANT1_802_11b_2462

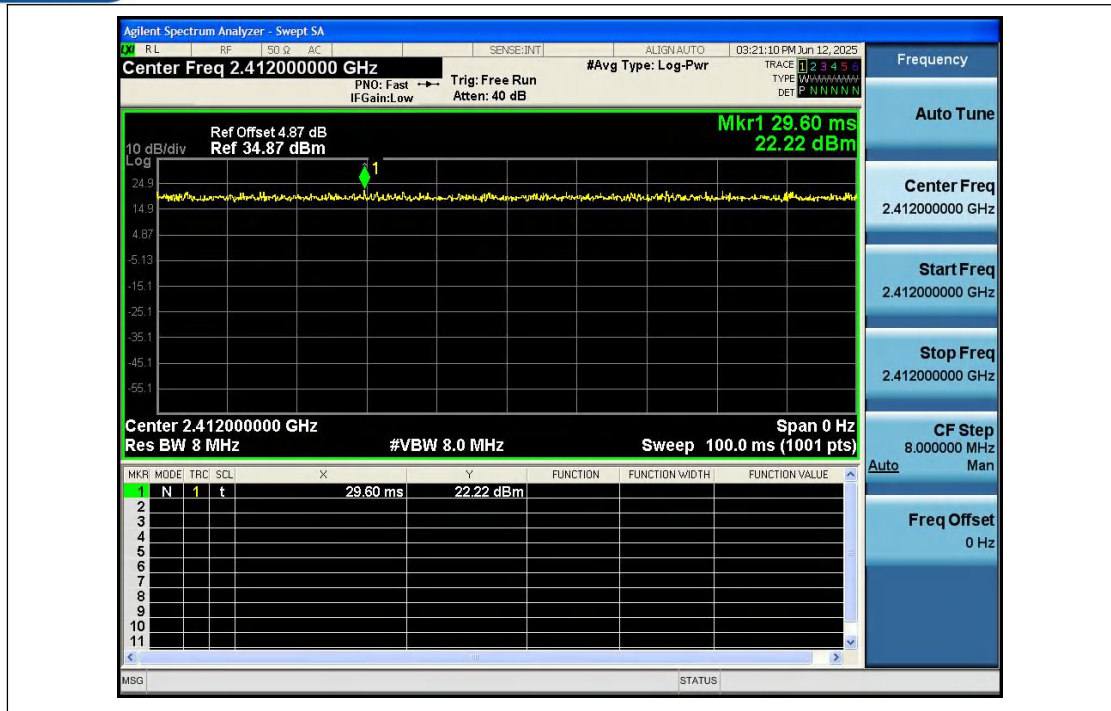


Duty_Cycle_NVNT_ANT1_802_11g_2412

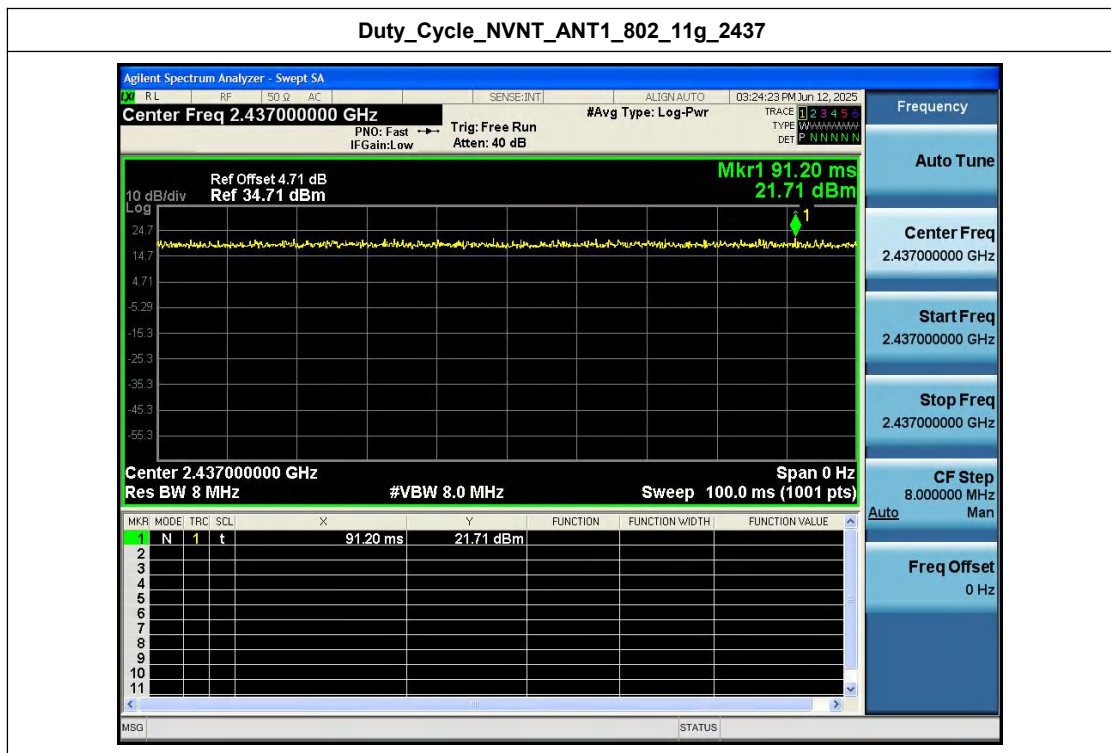
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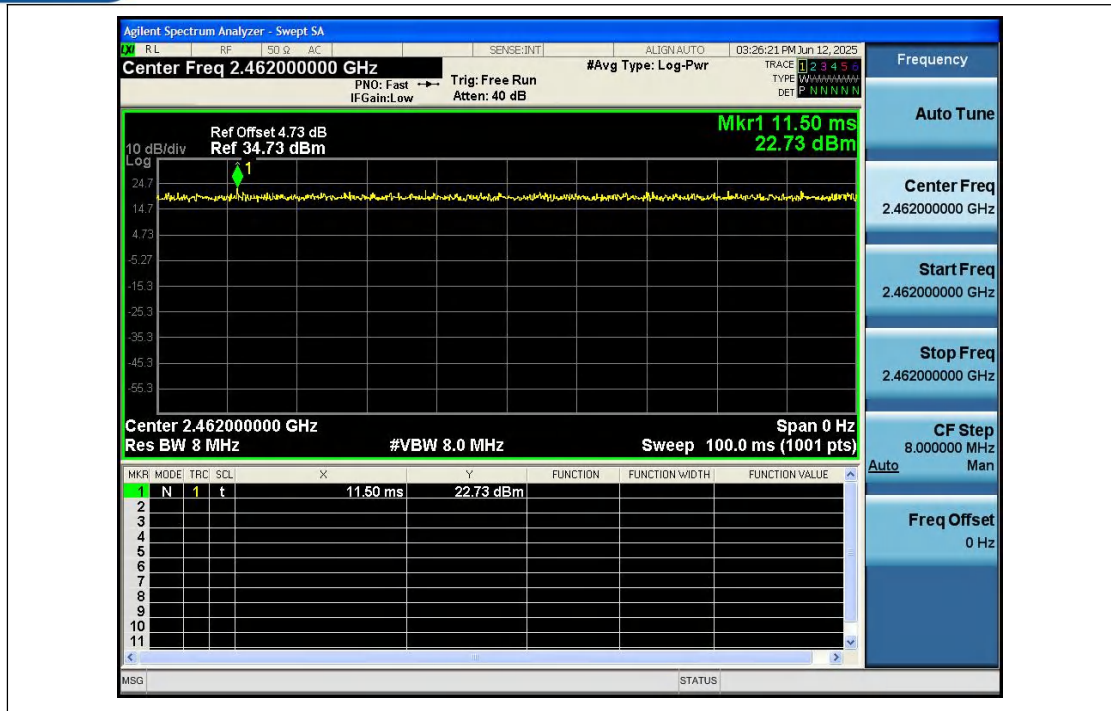
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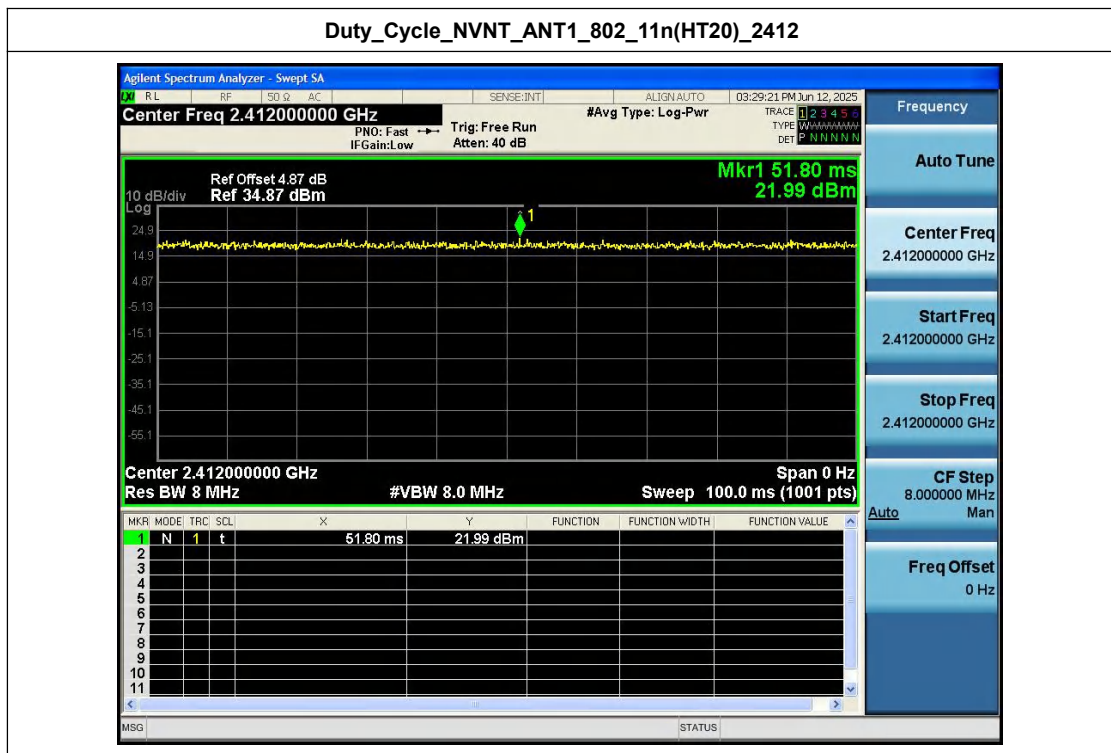
Duty_Cycle_NVNT_ANT1_802_11g_2437



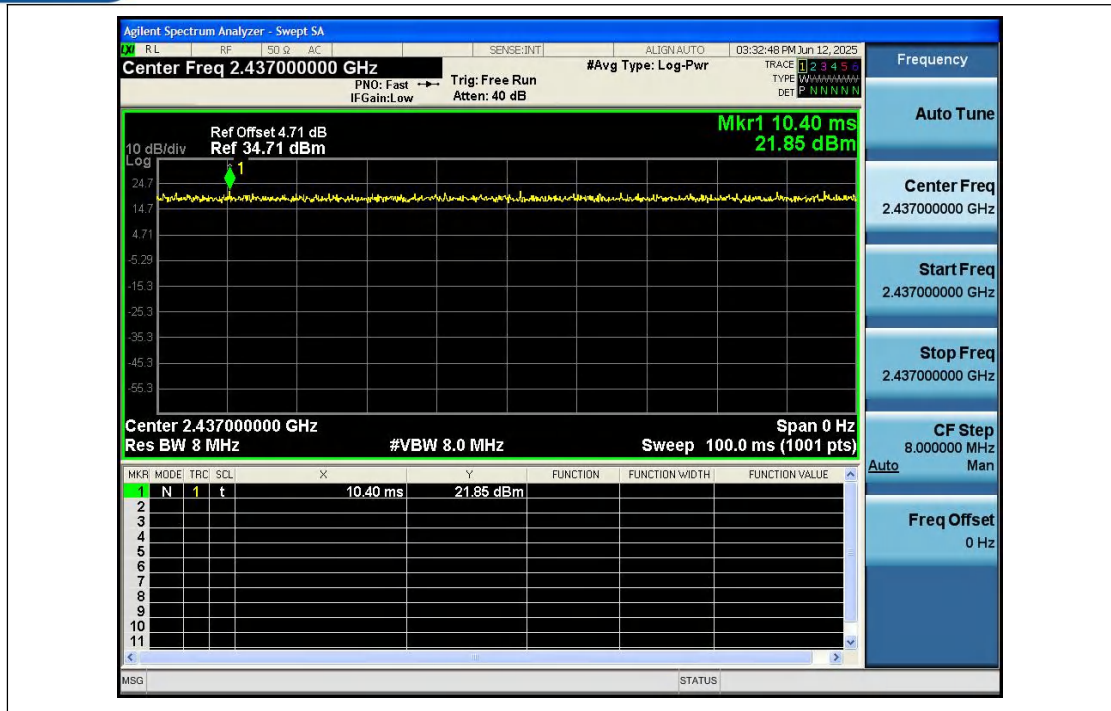
Duty_Cycle_NVNT_ANT1_802_11g_2462



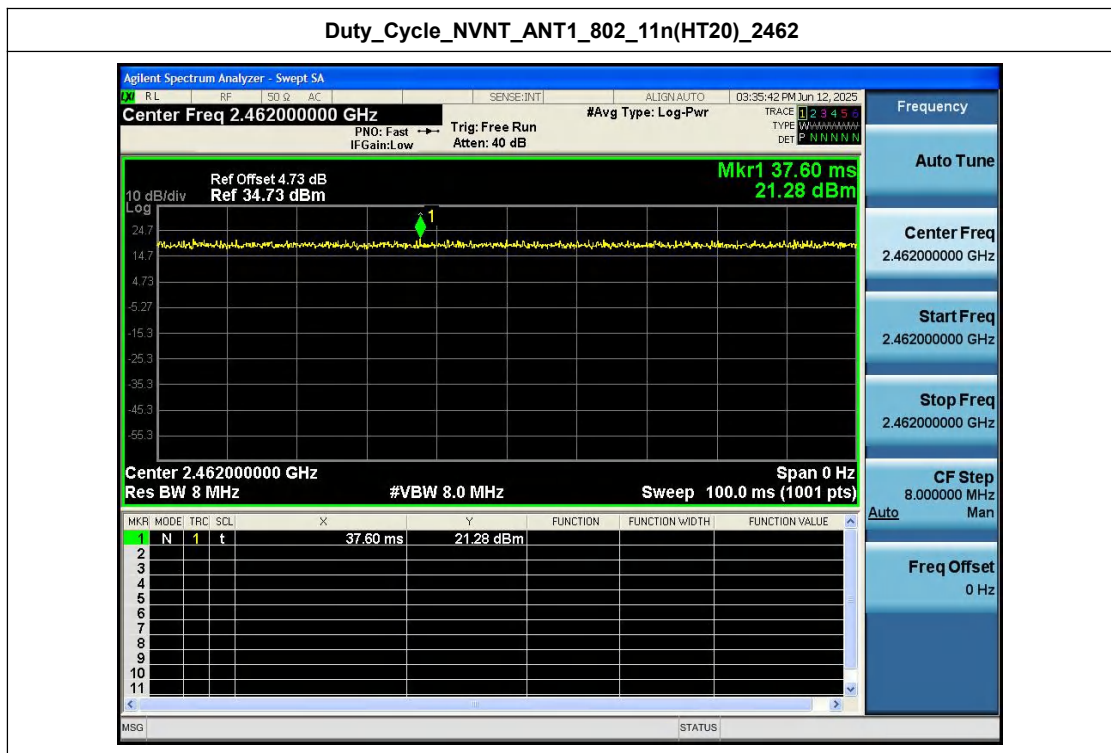
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462



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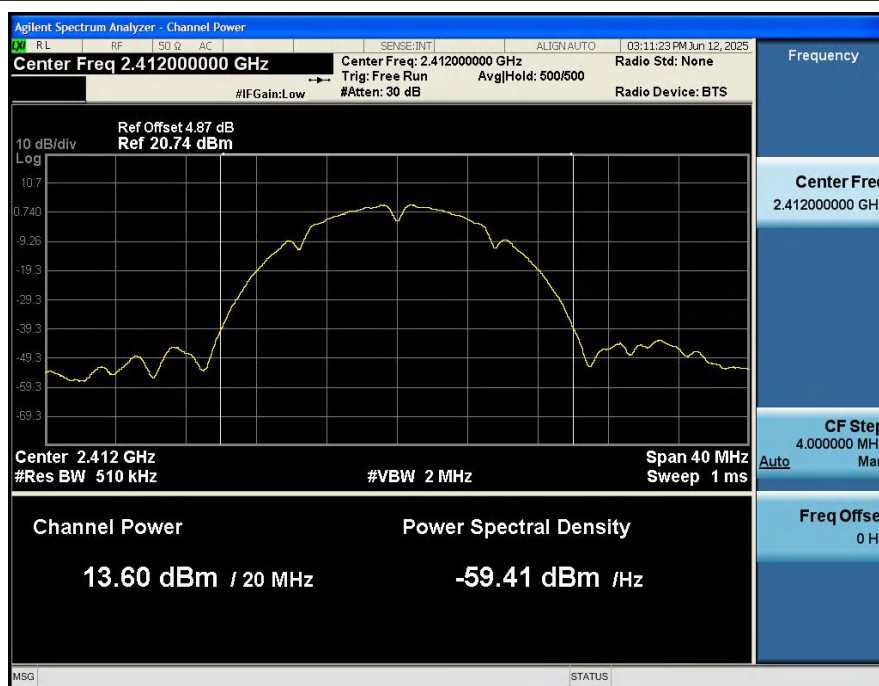
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Appendix D: MAX. Output Power

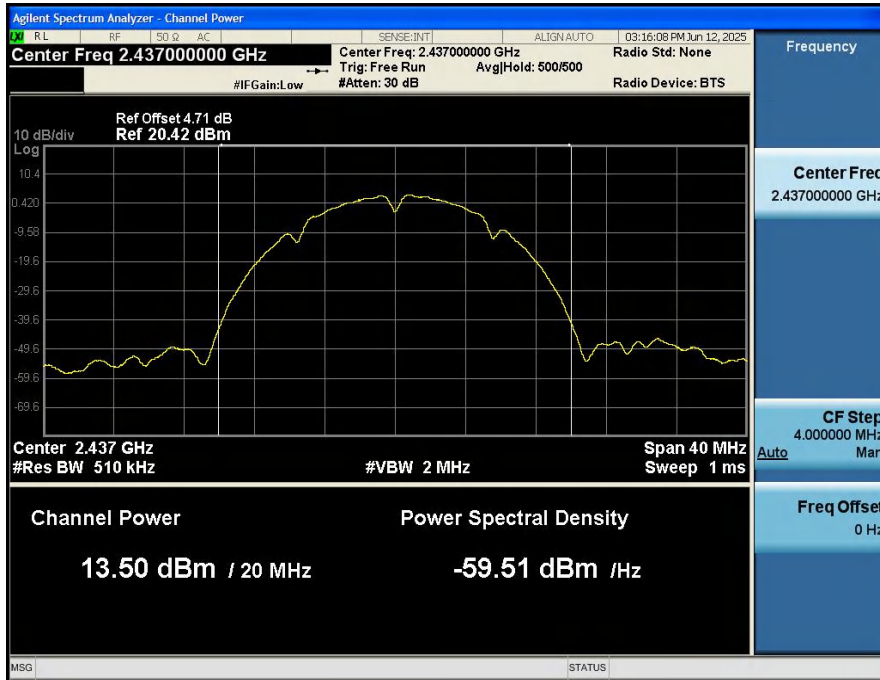
Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	RMS	13.60	0.00	13.60	30	Pass
NVNT	ANT1	802.11b	2437.00	RMS	13.50	0.00	13.50	30	Pass
NVNT	ANT1	802.11b	2462.00	RMS	13.62	0.00	13.62	30	Pass
NVNT	ANT1	802.11g	2412.00	RMS	13.94	0.00	13.94	30	Pass
NVNT	ANT1	802.11g	2437.00	RMS	13.60	0.00	13.60	30	Pass
NVNT	ANT1	802.11g	2462.00	RMS	13.62	0.00	13.62	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	RMS	13.87	0.00	13.87	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	RMS	13.49	0.00	13.49	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	RMS	13.49	0.00	13.49	30	Pass

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

MAX__Output_Power_NVNT_ANT1_802_11b_2412



MAX__Output_Power_NVNT_ANT1_802_11b_2437



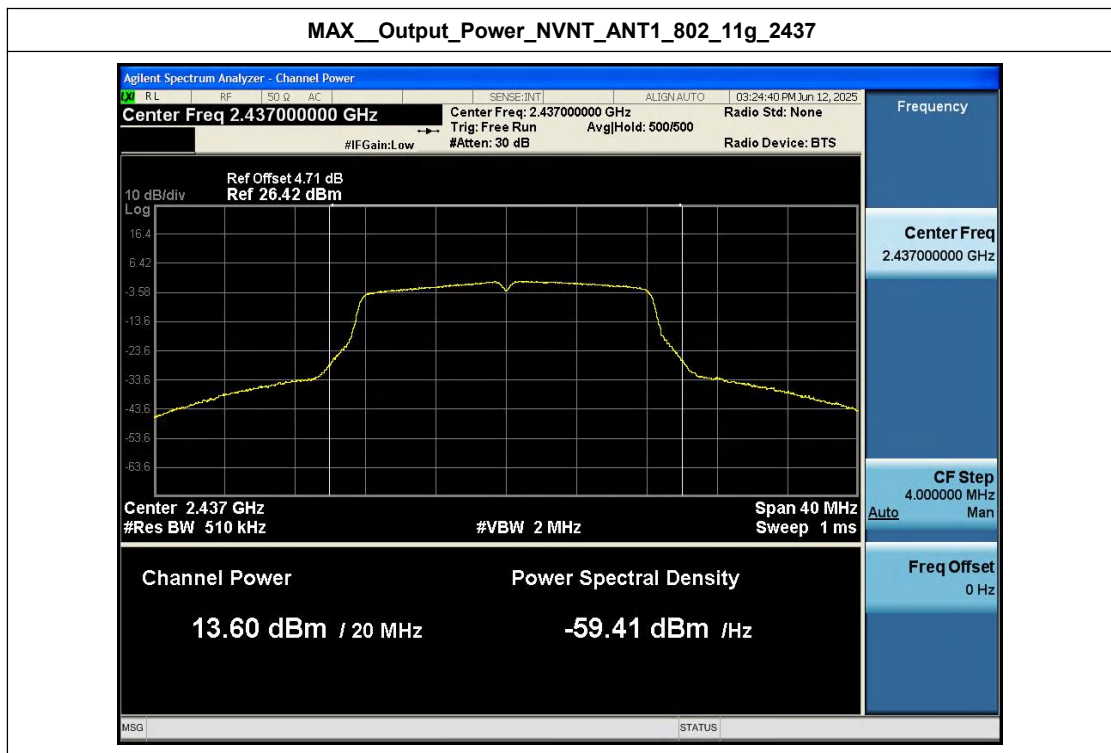
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MAX__Output_Power_NVNT_ANT1_802_11g_2412



MAX__Output_Power_NVNT_ANT1_802_11g_2437

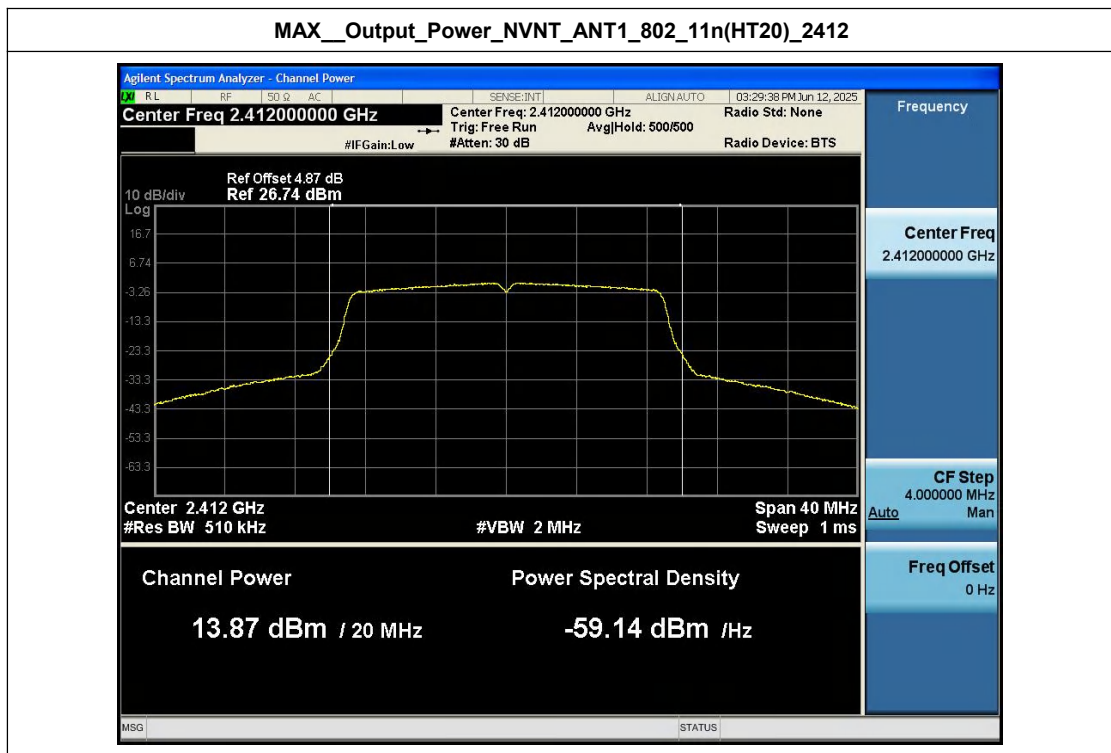


MAX__Output_Power_NVNT_ANT1_802_11g_2462





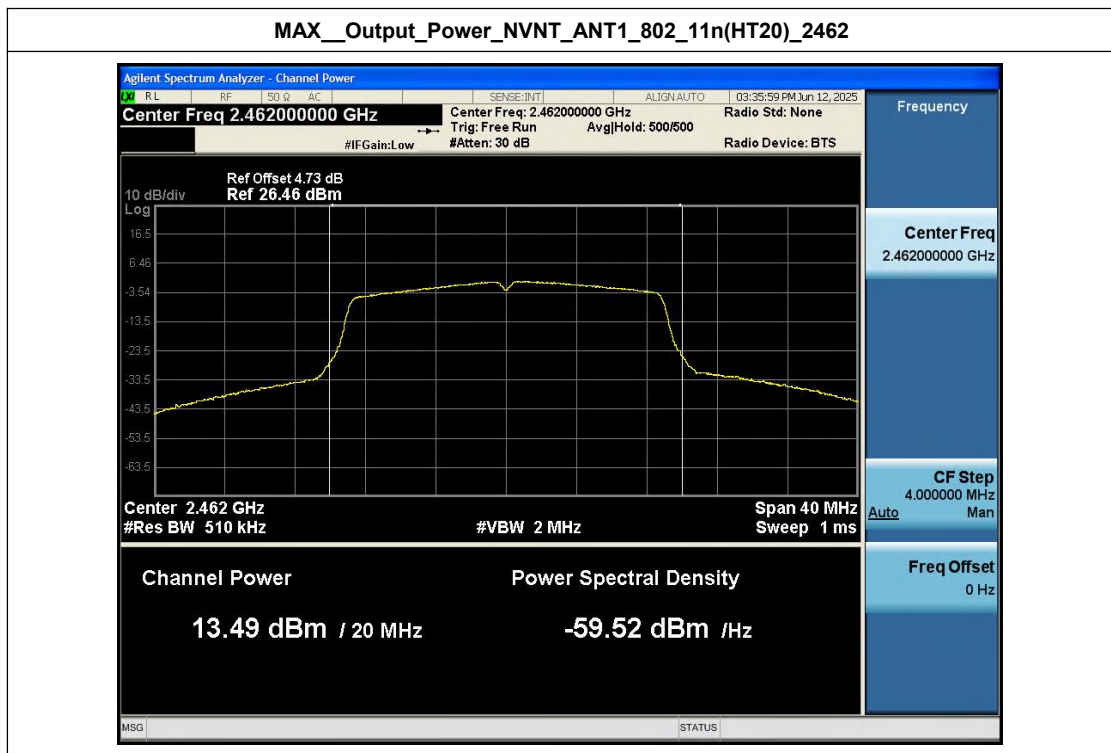
MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2412



MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2437



MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2462



Appendix E: Power Spectral Density

Condi tion	Anten na	Modulatio n	Frequen cy (MHz)	SA_PSD(dBm/3 0kHz)	Duty factor(d B)	RB factor(d B)	PSD(dBm/3 kHz)	limit(dBm/3 kHz)	Res ult
NVNT	ANT1	802.11b	2412.00	2.61	0.00	-10.00	-7.39	8	Pass
NVNT	ANT1	802.11b	2437.00	2.46	0.00	-10.00	-7.54	8	Pass
NVNT	ANT1	802.11b	2462.00	2.52	0.00	-10.00	-7.48	8	Pass
NVNT	ANT1	802.11g	2412.00	0.01	0.00	-10.00	-9.99	8	Pass
NVNT	ANT1	802.11g	2437.00	-0.70	0.00	-10.00	-10.71	8	Pass
NVNT	ANT1	802.11g	2462.00	-0.48	0.00	-10.00	-10.48	8	Pass
NVNT	ANT1	802.11n(HT 20)	2412.00	-0.02	0.00	-10.00	-10.02	8	Pass
NVNT	ANT1	802.11n(HT 20)	2437.00	-1.33	0.00	-10.00	-11.34	8	Pass
NVNT	ANT1	802.11n(HT 20)	2462.00	-1.13	0.00	-10.00	-11.13	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