

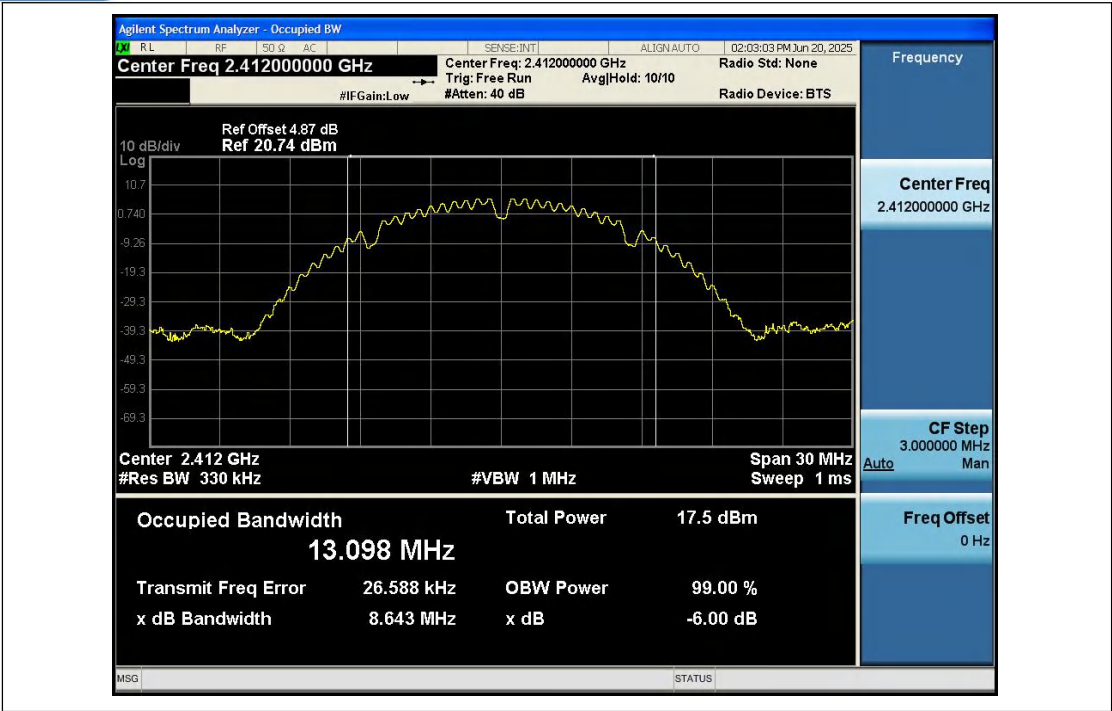
Appendix Test Data

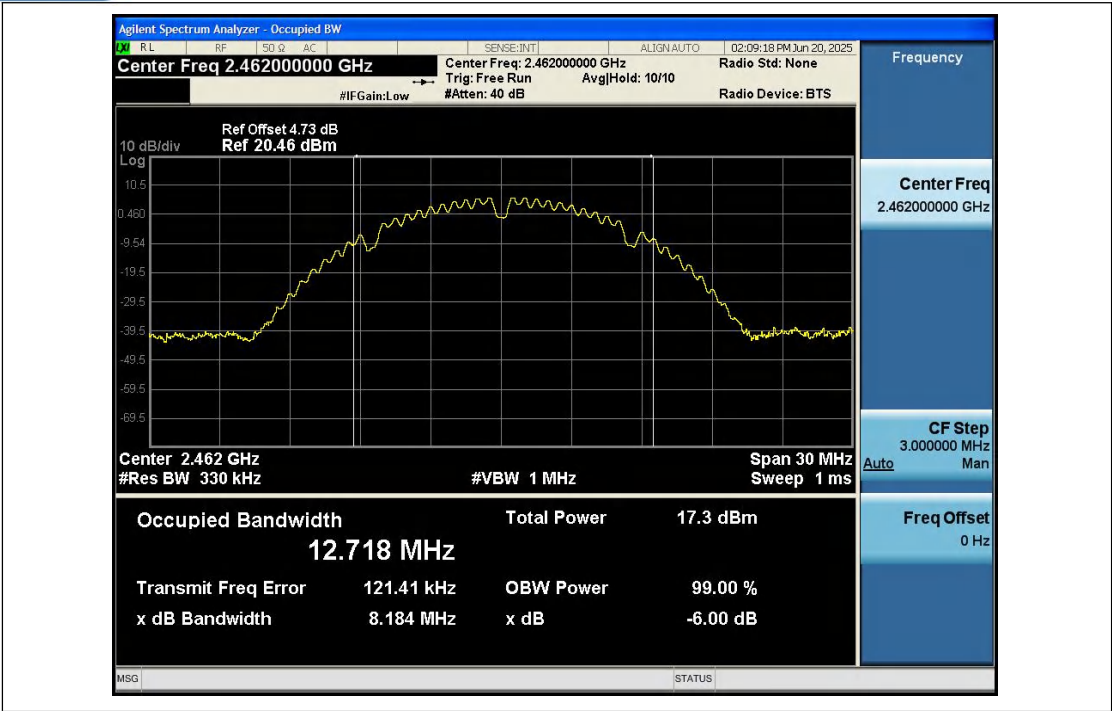
Report No.:	1812C50293312502	Test Sample No.:	1-2-2
Start Test Date:	2025.6.19	Finish Test Date:	2025.6.20
Test Engineer:	<i>Liangfei Yang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	23.5℃	Relative Humidity:	45%
Pressure:	101kPa		

Appendix A: -6dB Bandwidth

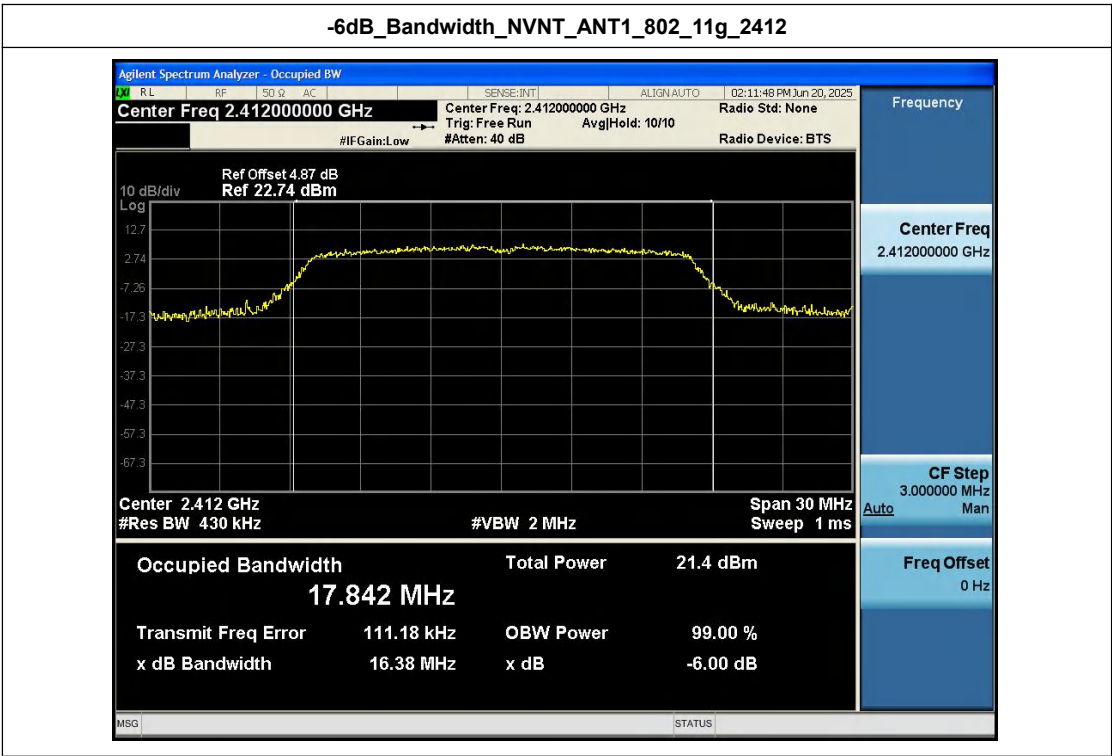
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	8.64	500	Pass
NVNT	ANT1	802.11b	2437.00	8.62	500	Pass
NVNT	ANT1	802.11b	2462.00	8.18	500	Pass
NVNT	ANT1	802.11g	2412.00	16.38	500	Pass
NVNT	ANT1	802.11g	2437.00	16.23	500	Pass
NVNT	ANT1	802.11g	2462.00	15.86	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.53	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.17	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.40	500	Pass

-6dB_Bandwidth_NVNT_ANT1_802_11b_2412





-6dB_Bandwidth_NVNT_ANT1_802_11g_2412



Frequency

Center Freq

2.41200000 GHz

CF Step

3.000000 MHz

Auto

Man

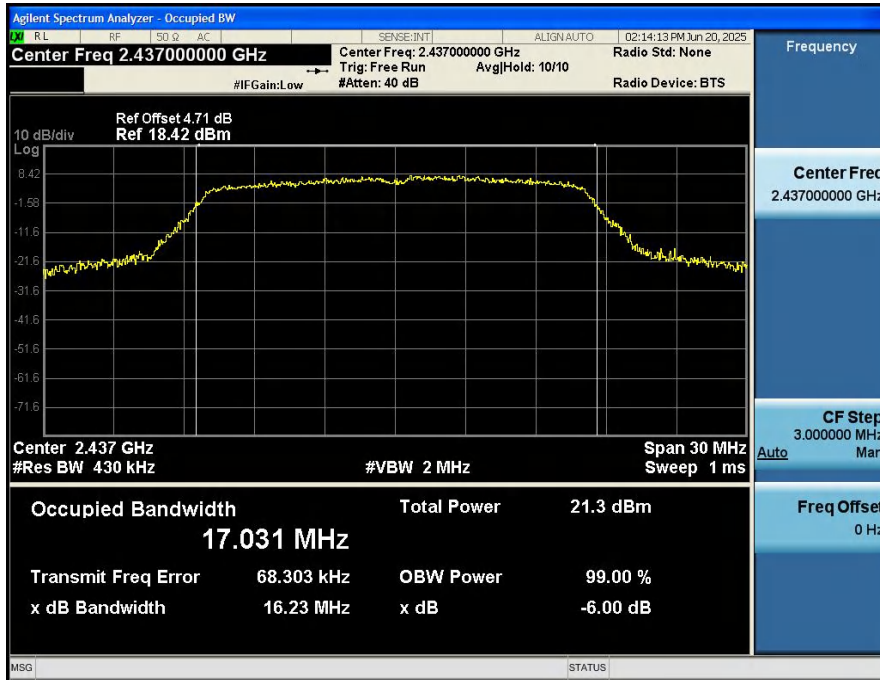
Freq Offset

0 Hz

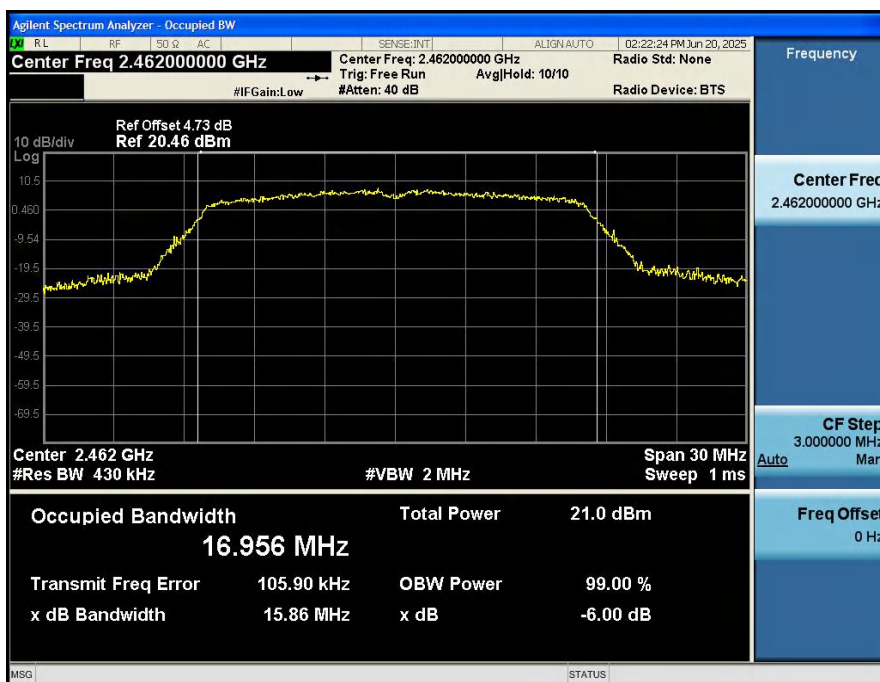
MSG

STATUS

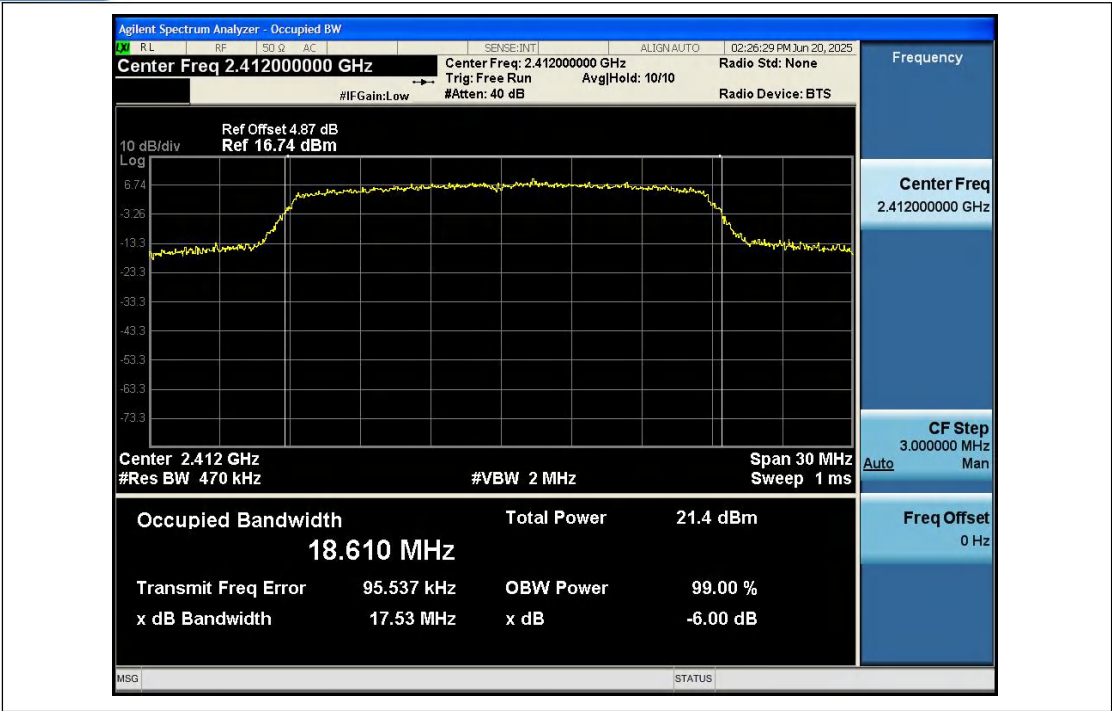
-6dB_Bandwidth_NVNT_ANT1_802_11g_2437



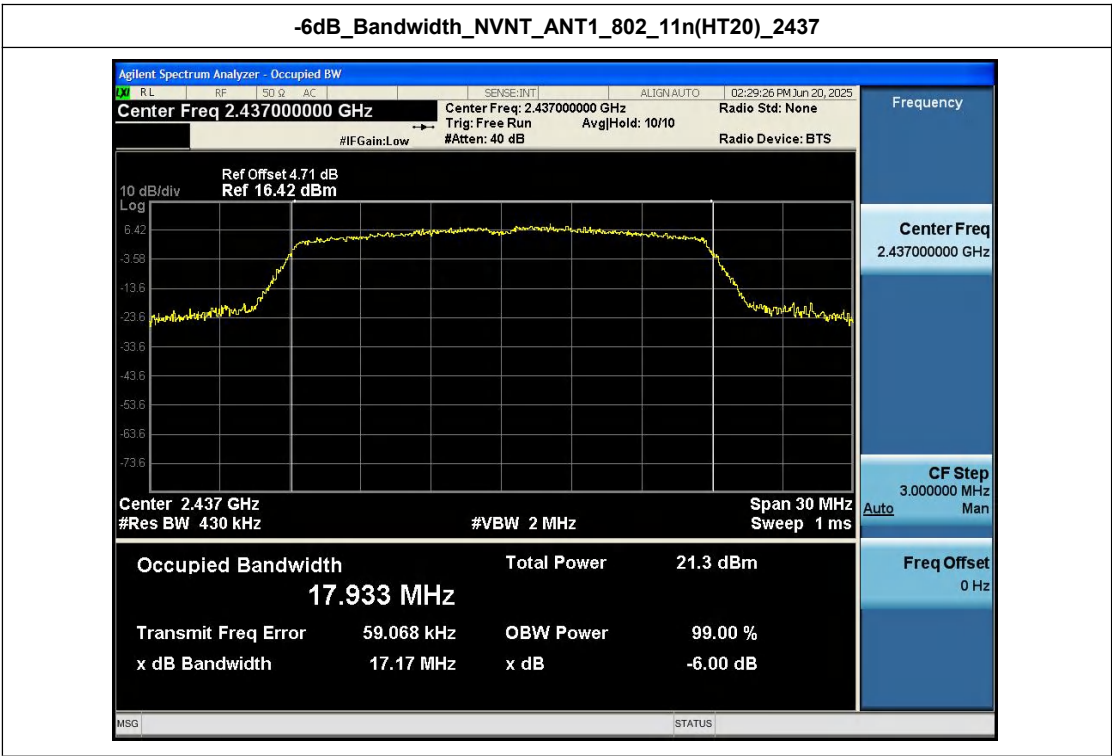
-6dB_Bandwidth_NVNT_ANT1_802_11g_2462



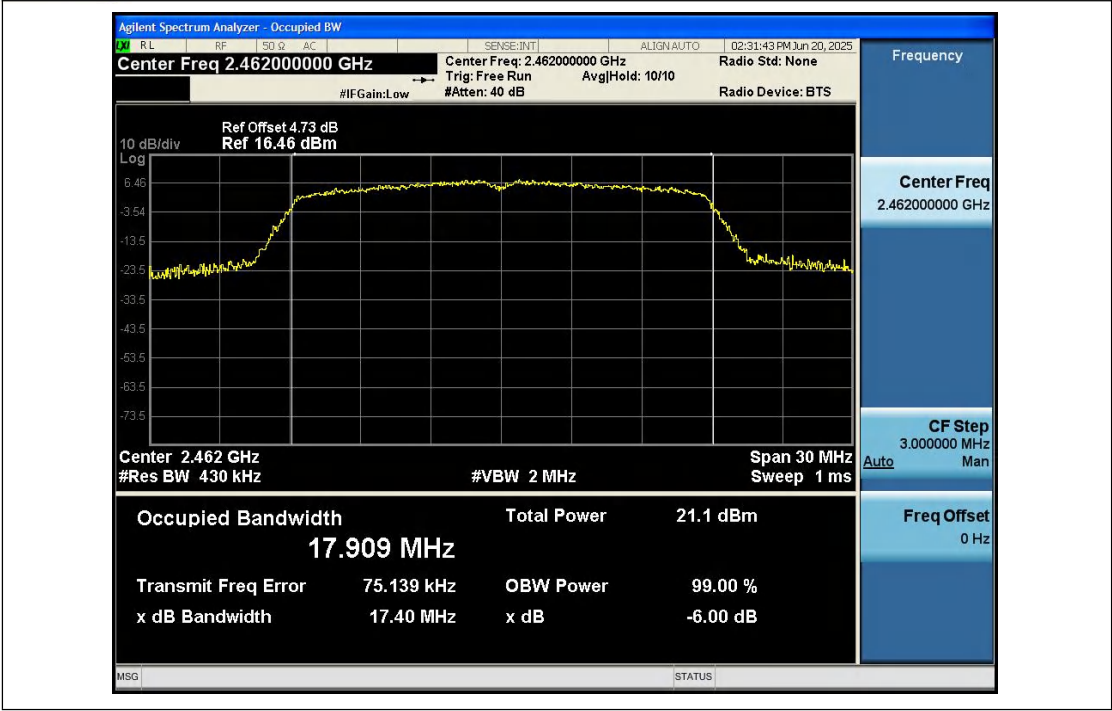
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



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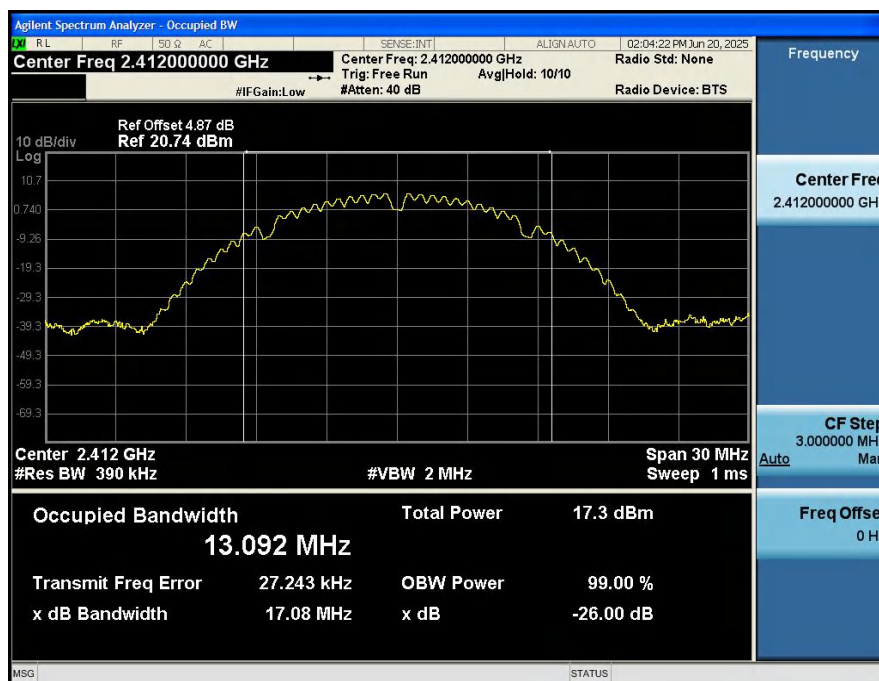
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park,
Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Tel:(86)0755-26066440 Email:service@anbotek.com

Hotline
400-003-0500
www.anbotek.com

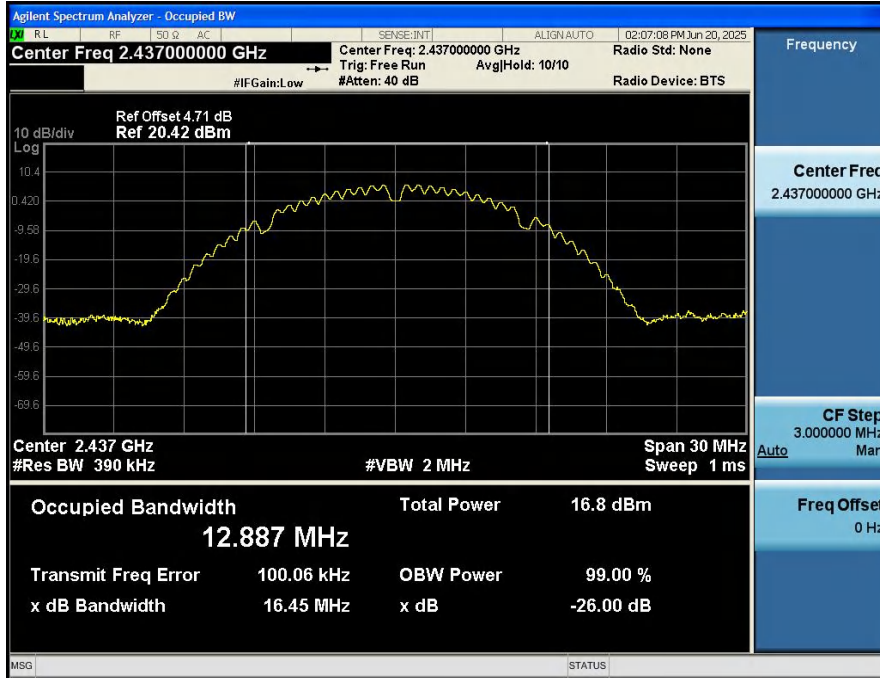
Appendix B: 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	13.092
NVNT	ANT1	802.11b	2437.00	12.887
NVNT	ANT1	802.11b	2462.00	12.724
NVNT	ANT1	802.11g	2412.00	18.169
NVNT	ANT1	802.11g	2437.00	17.233
NVNT	ANT1	802.11g	2462.00	17.093
NVNT	ANT1	802.11n(HT20)	2412.00	18.795
NVNT	ANT1	802.11n(HT20)	2437.00	18.034
NVNT	ANT1	802.11n(HT20)	2462.00	18.054

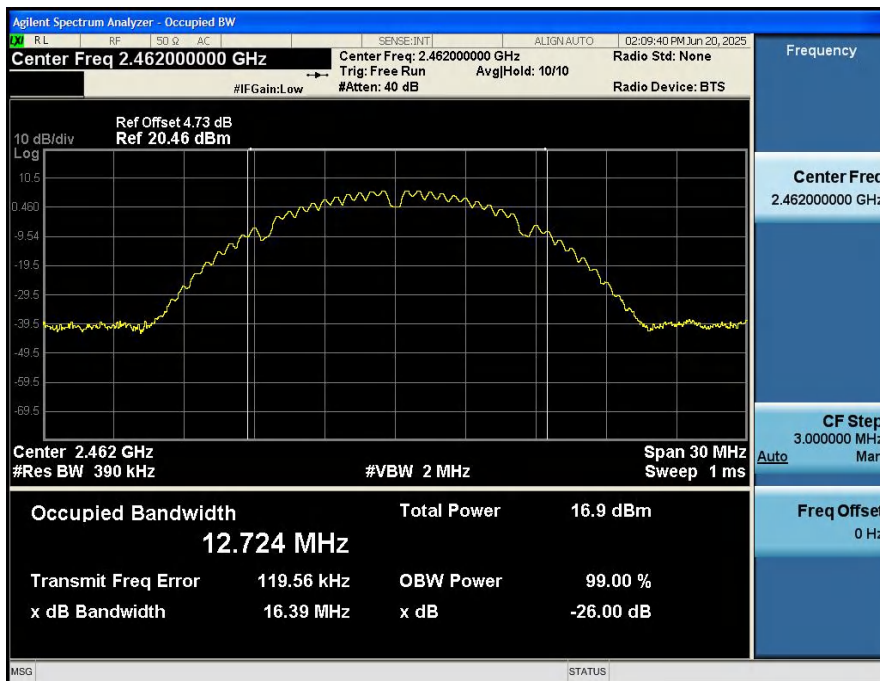
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2412



99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2437



99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2462



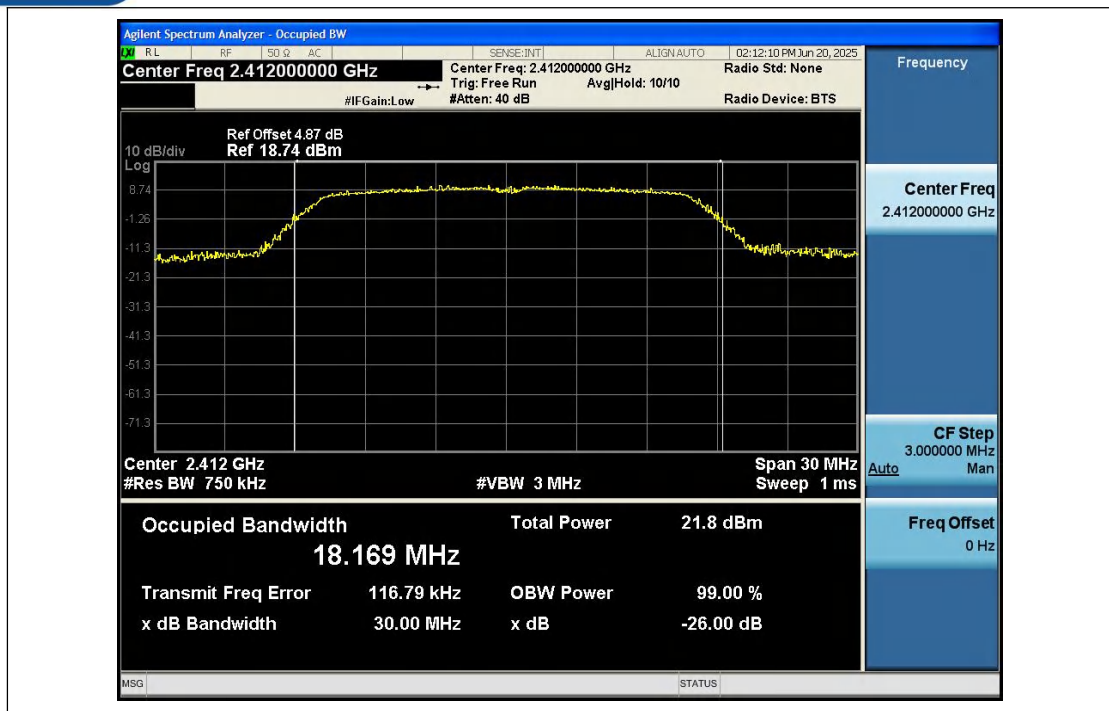
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2412

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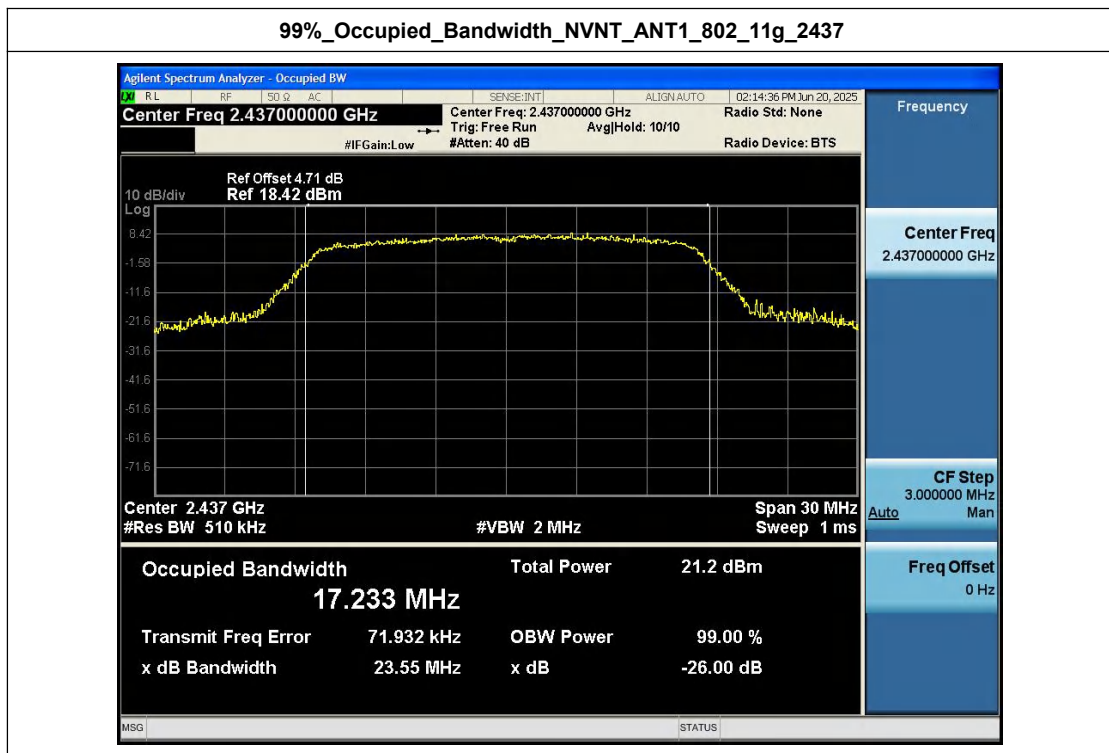
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park,
Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Tel: (86) 0755-26066440 Email: service@anbotek.com



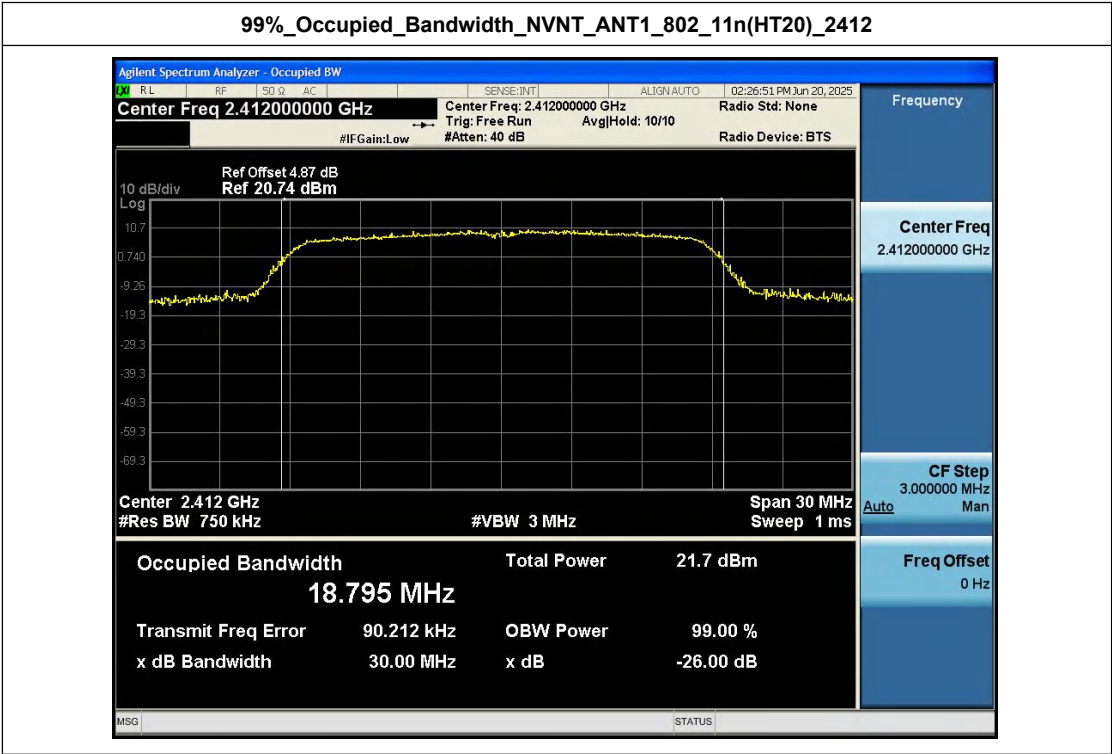
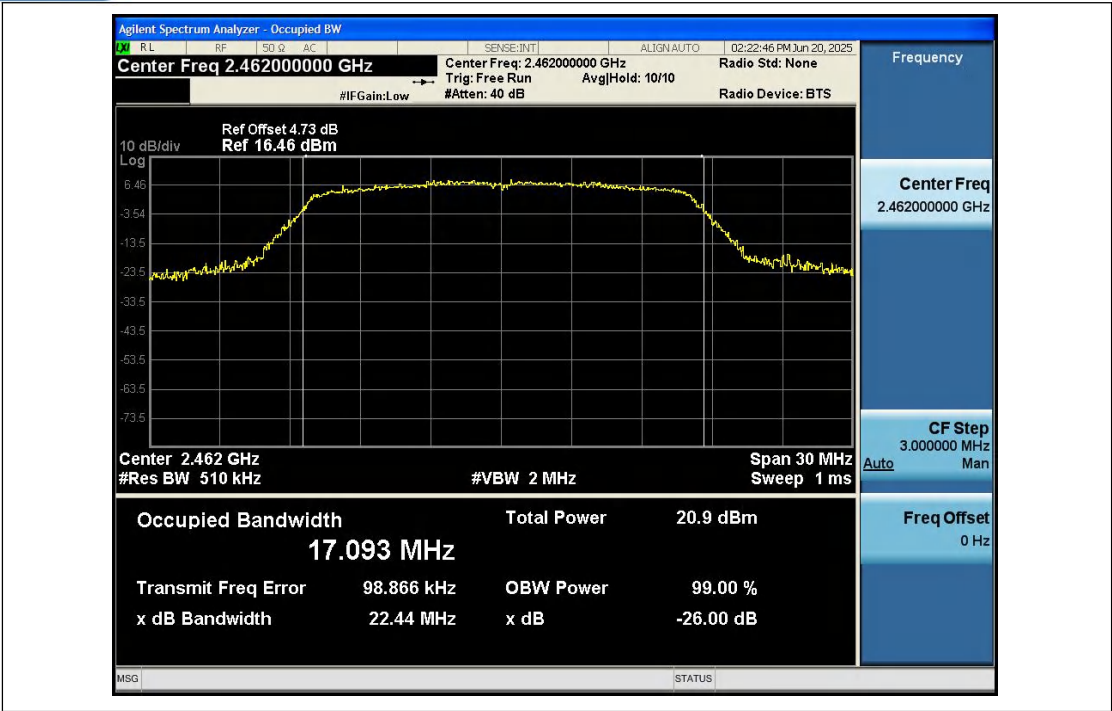
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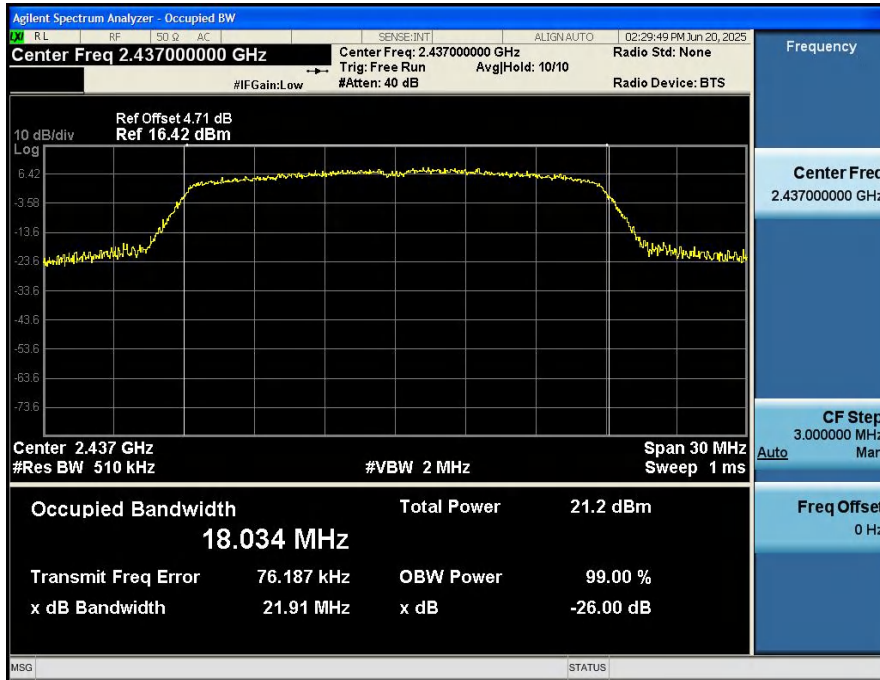
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2437



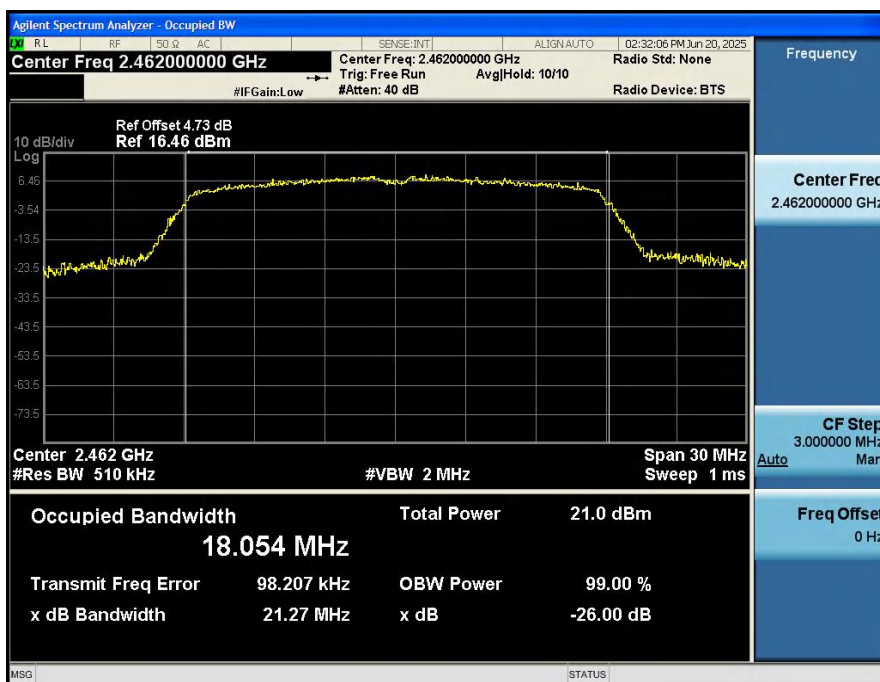
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2462



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



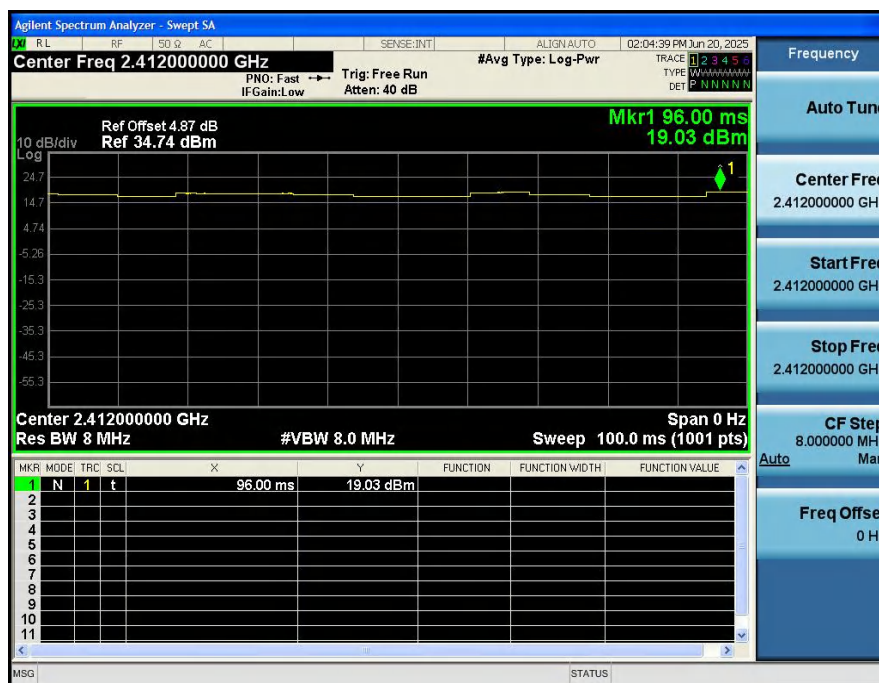
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



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

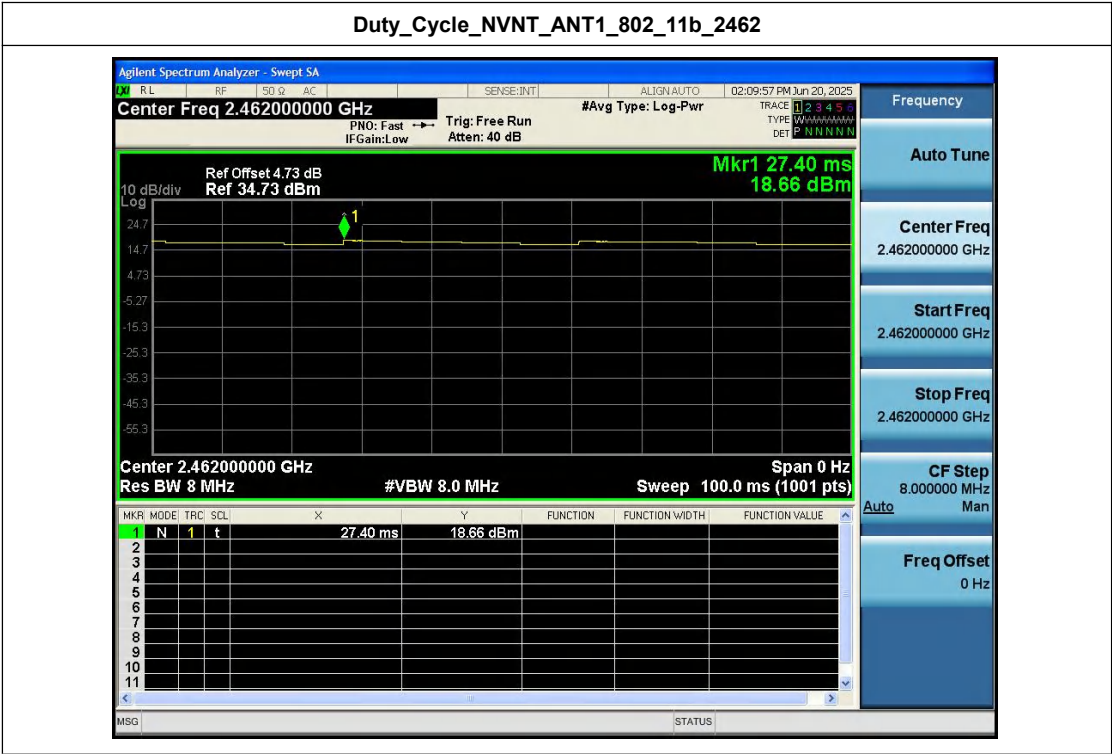
Duty_Cycle_NVNT_ANT1_802_11b_2412



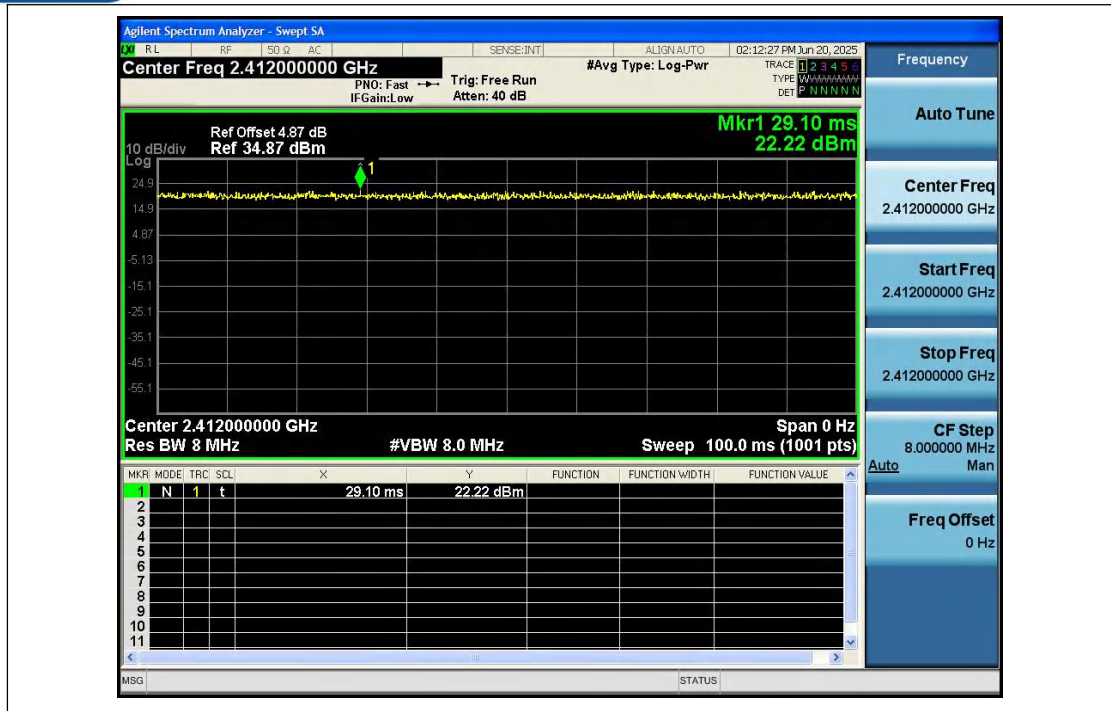
Duty_Cycle_NVNT_ANT1_802_11b_2437



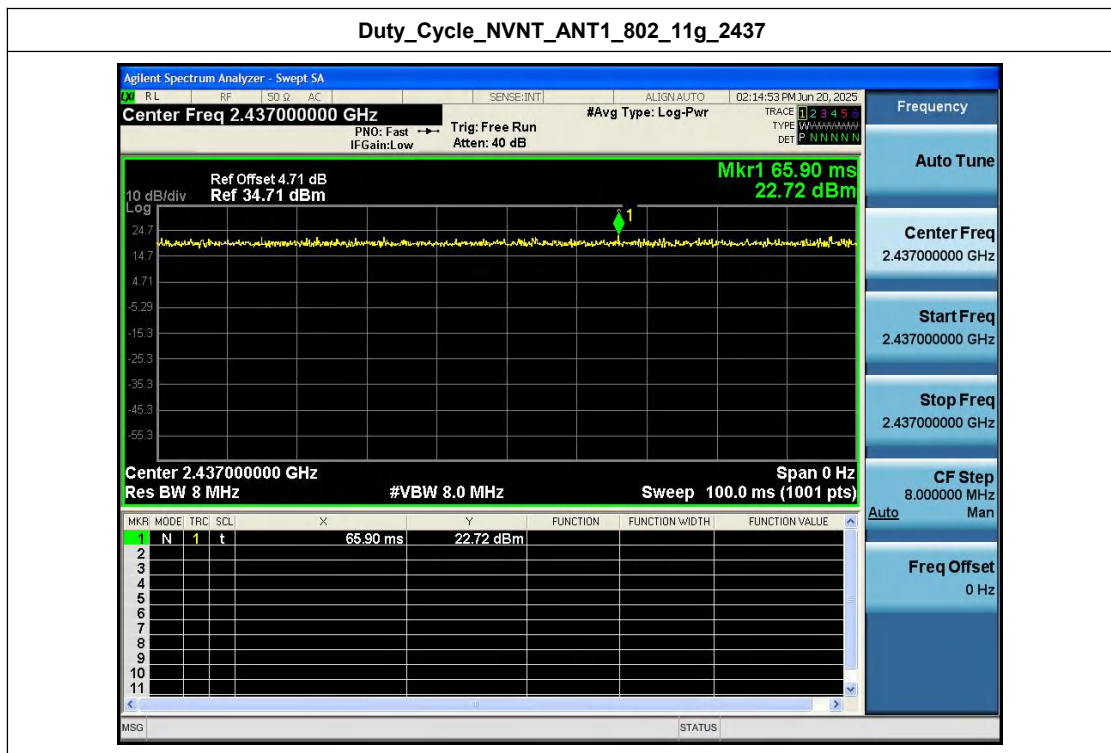
Duty_Cycle_NVNT_ANT1_802_11b_2462



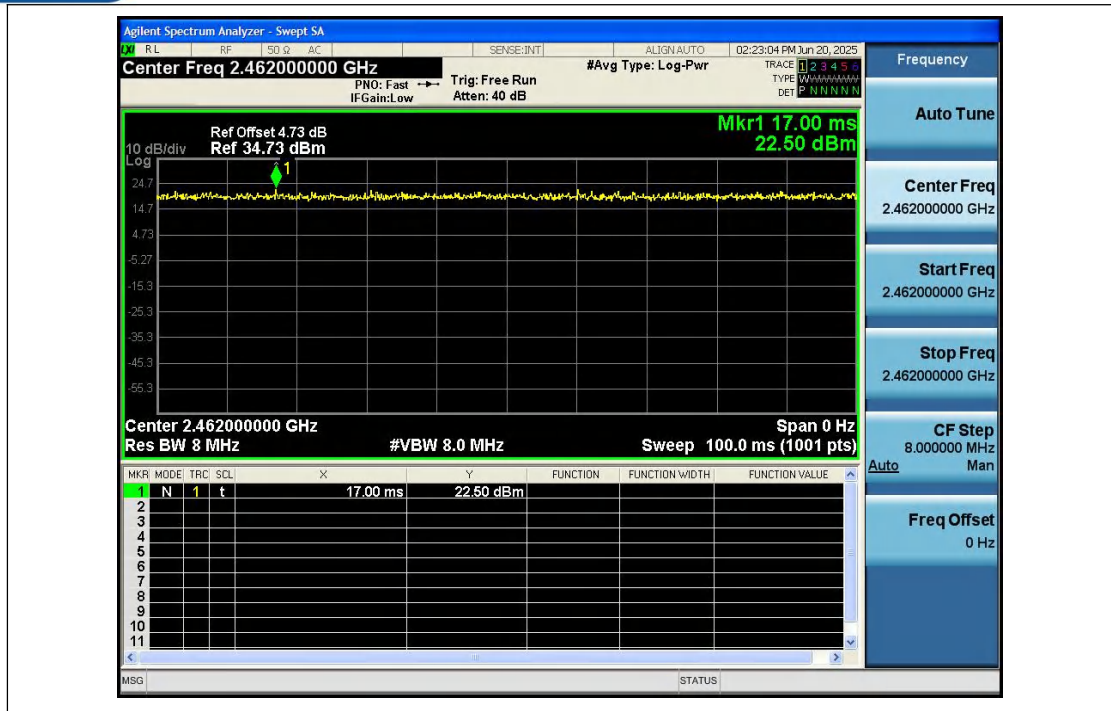
Duty_Cycle_NVNT_ANT1_802_11g_2412



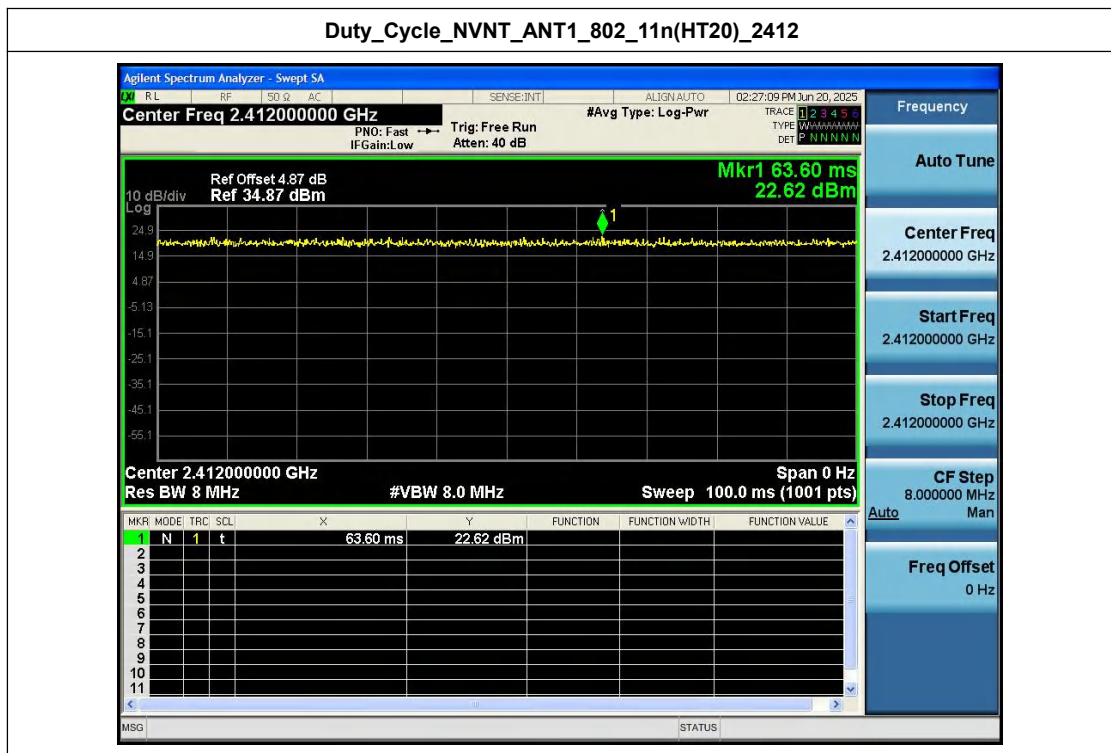
Duty_Cycle_NVNT_ANT1_802_11g_2437



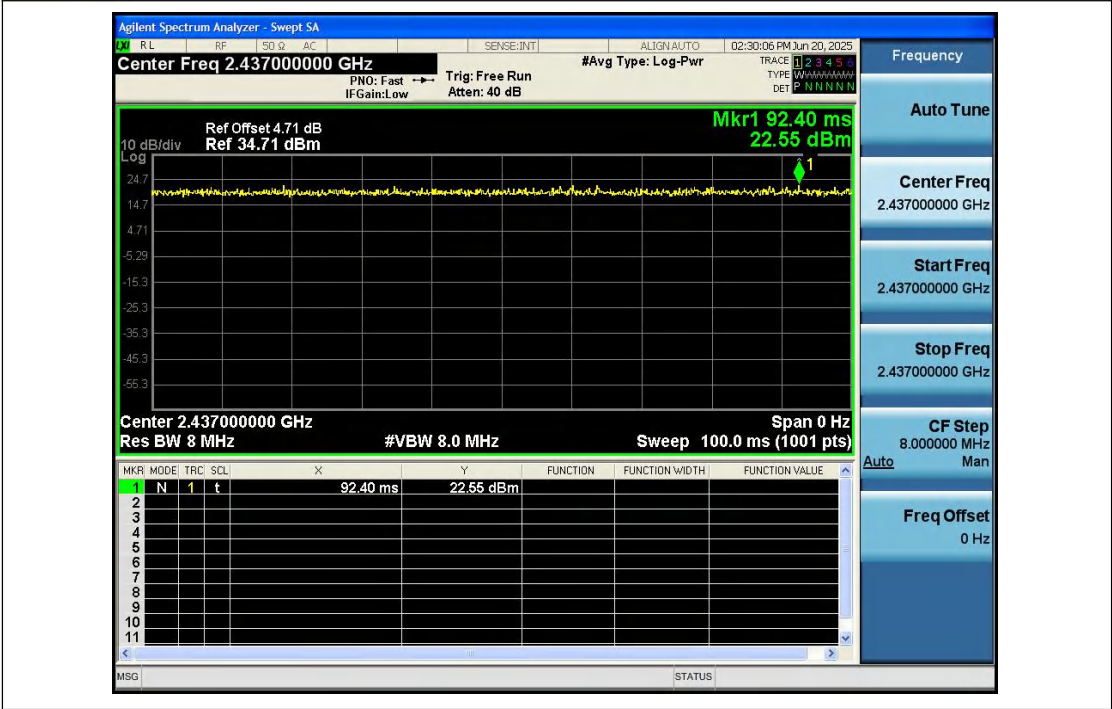
Duty_Cycle_NVNT_ANT1_802_11g_2462



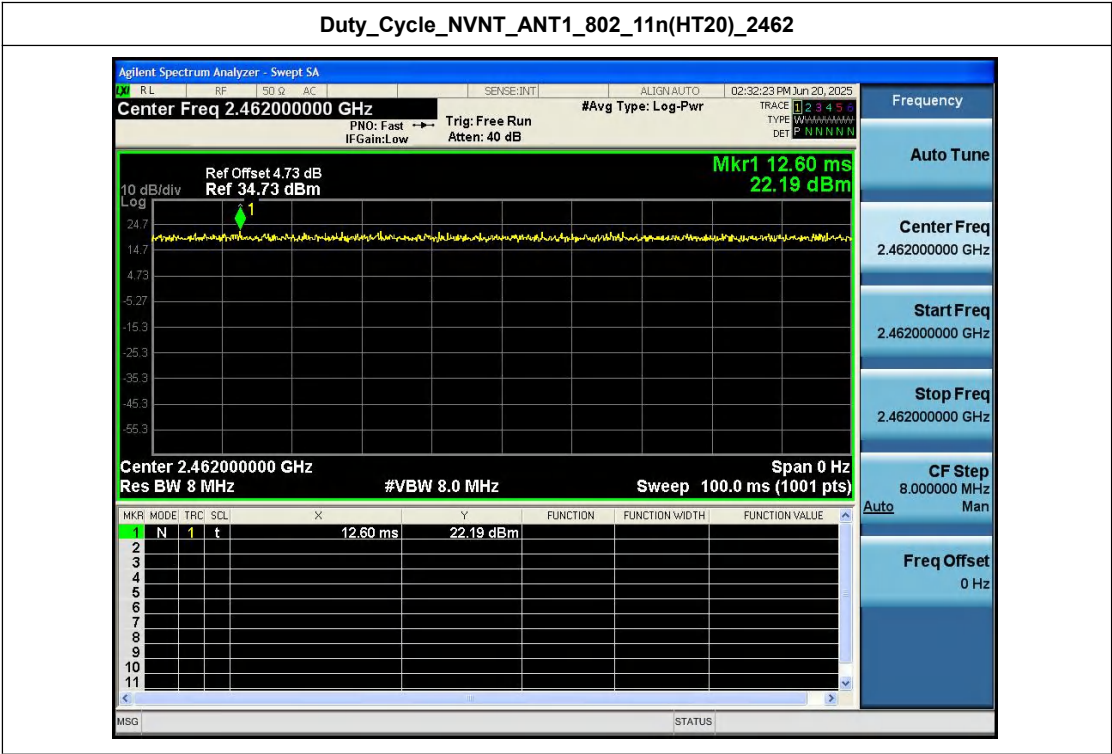
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462



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	14.10	0.00	14.10	30	Pass
NVNT	ANT1	802.11b	2437.00	RMS	13.68	0.00	13.68	30	Pass
NVNT	ANT1	802.11b	2462.00	RMS	13.77	0.00	13.77	30	Pass
NVNT	ANT1	802.11g	2412.00	RMS	14.14	0.00	14.14	30	Pass
NVNT	ANT1	802.11g	2437.00	RMS	14.12	0.00	14.12	30	Pass
NVNT	ANT1	802.11g	2462.00	RMS	13.94	0.00	13.94	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	RMS	14.22	0.00	14.22	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	RMS	14.16	0.00	14.16	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	RMS	14.03	0.00	14.03	30	Pass

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

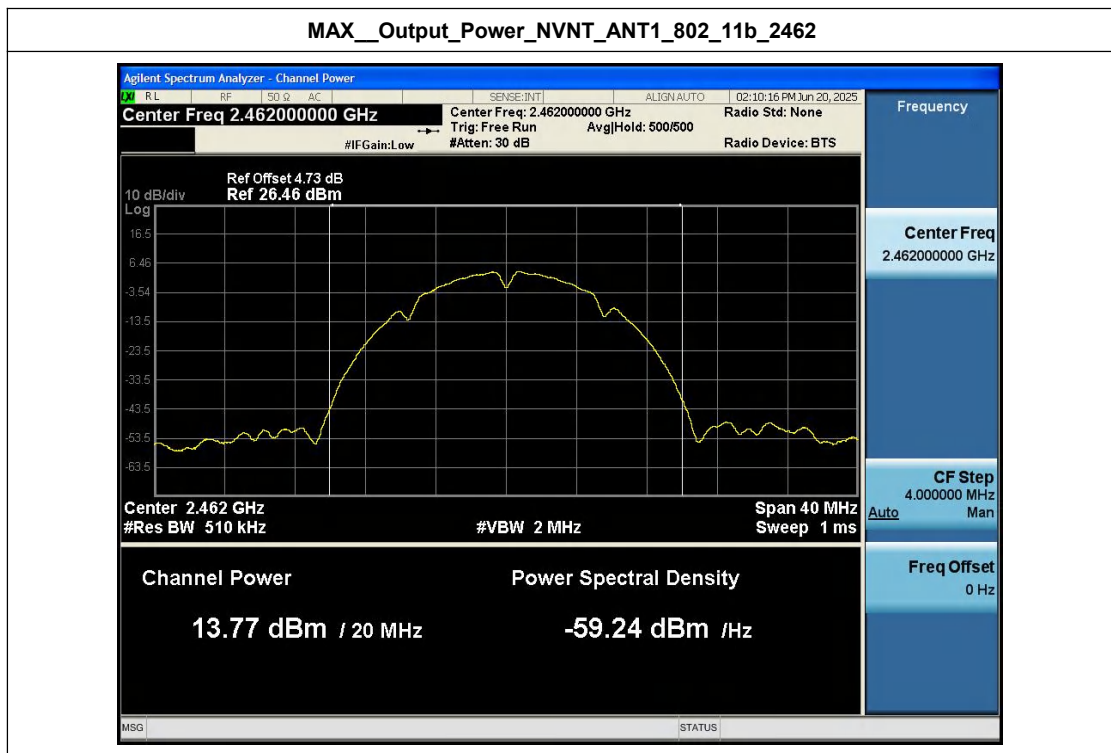
MAX__Output_Power_NVNT_ANT1_802_11b_2412



MAX__Output_Power_NVNT_ANT1_802_11b_2437



MAX__Output_Power_NVNT_ANT1_802_11b_2462

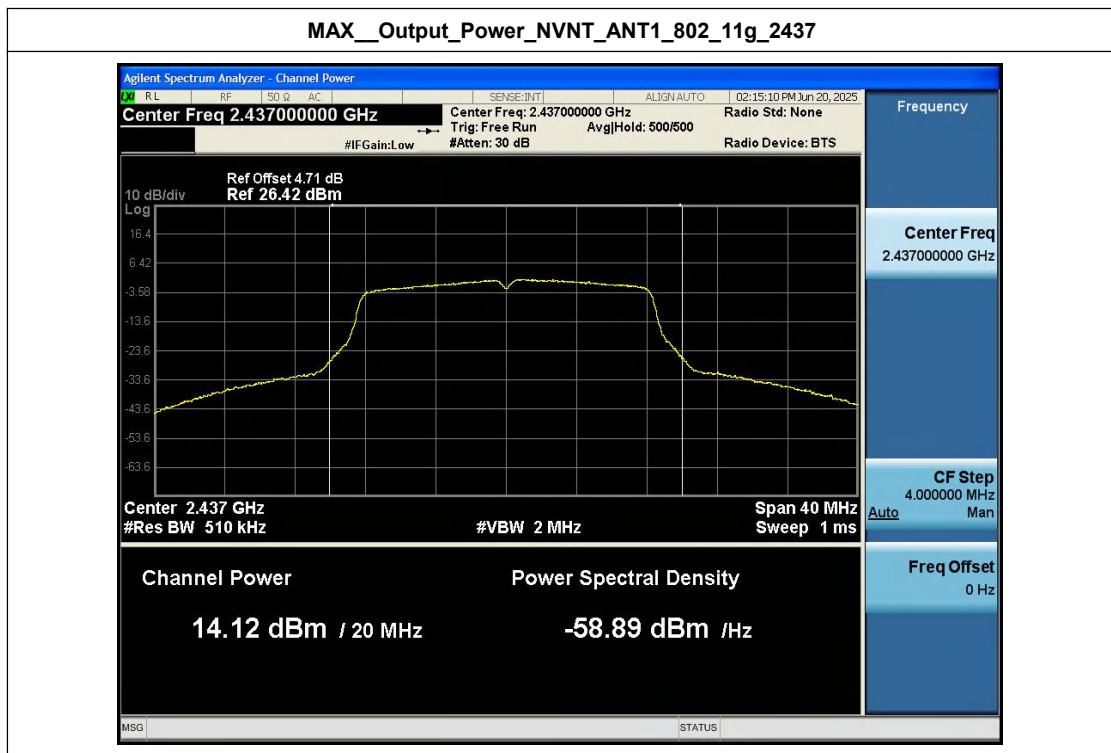


MAX__Output_Power_NVNT_ANT1_802_11g_2412

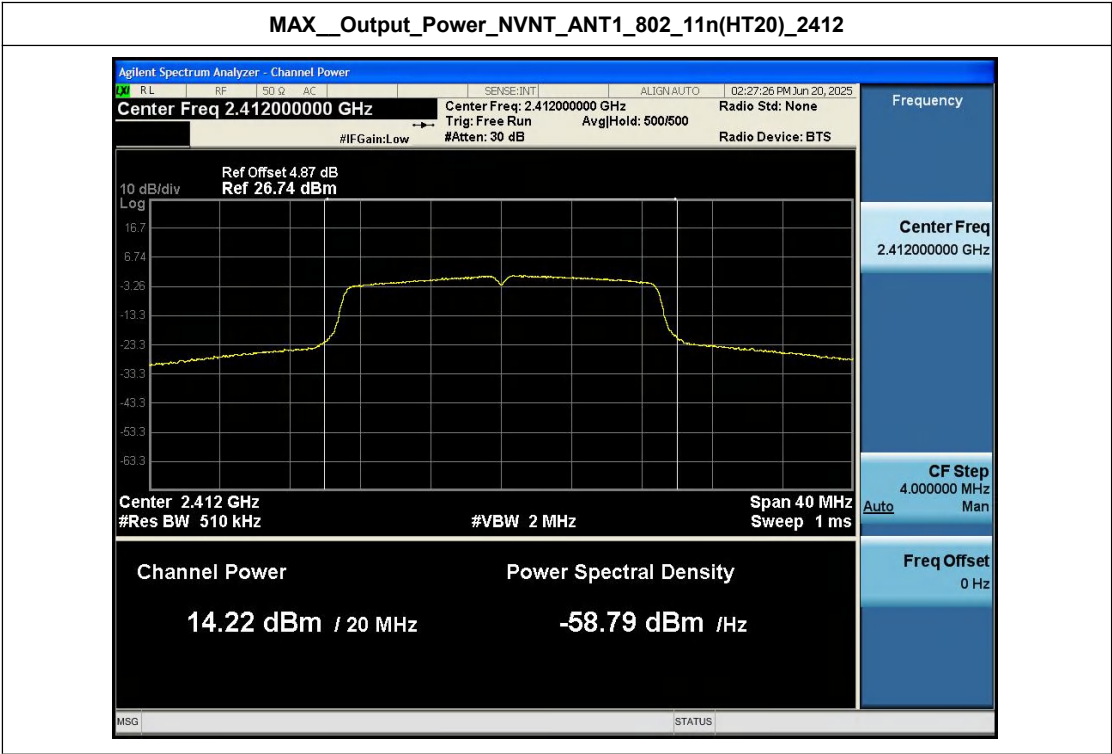
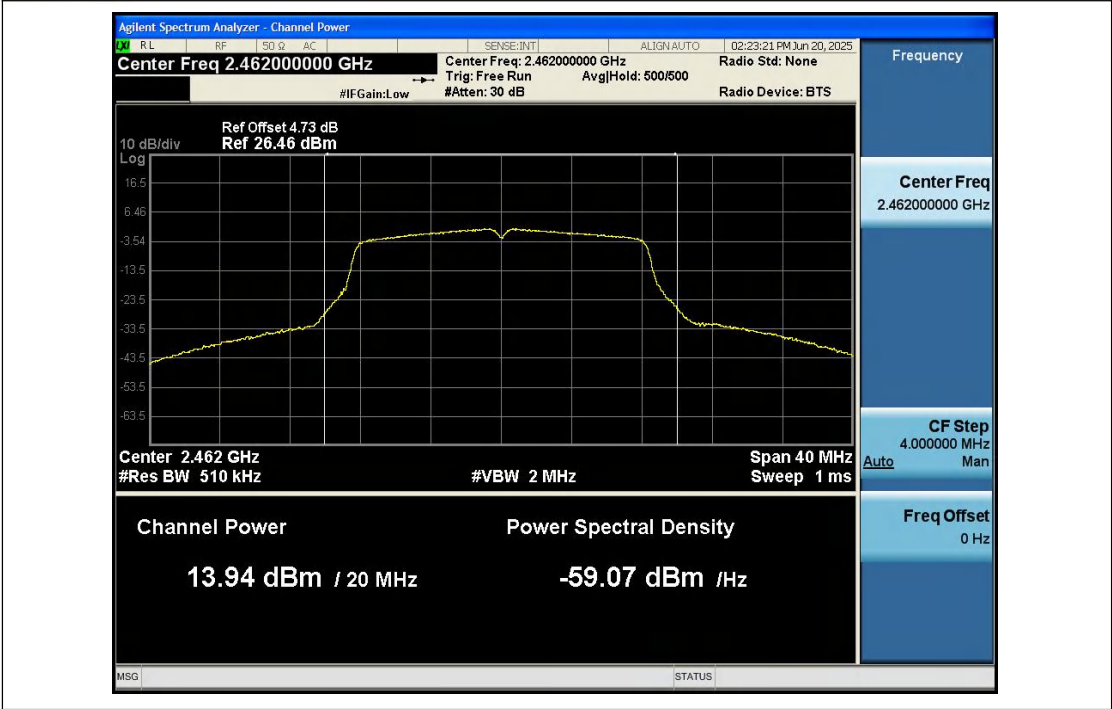




MAX__Output_Power_NVNT_ANT1_802_11g_2437



MAX__Output_Power_NVNT_ANT1_802_11g_2462



Frequency

Center Freq

2.412000000 GHz

CF Step

4.000000 MHz

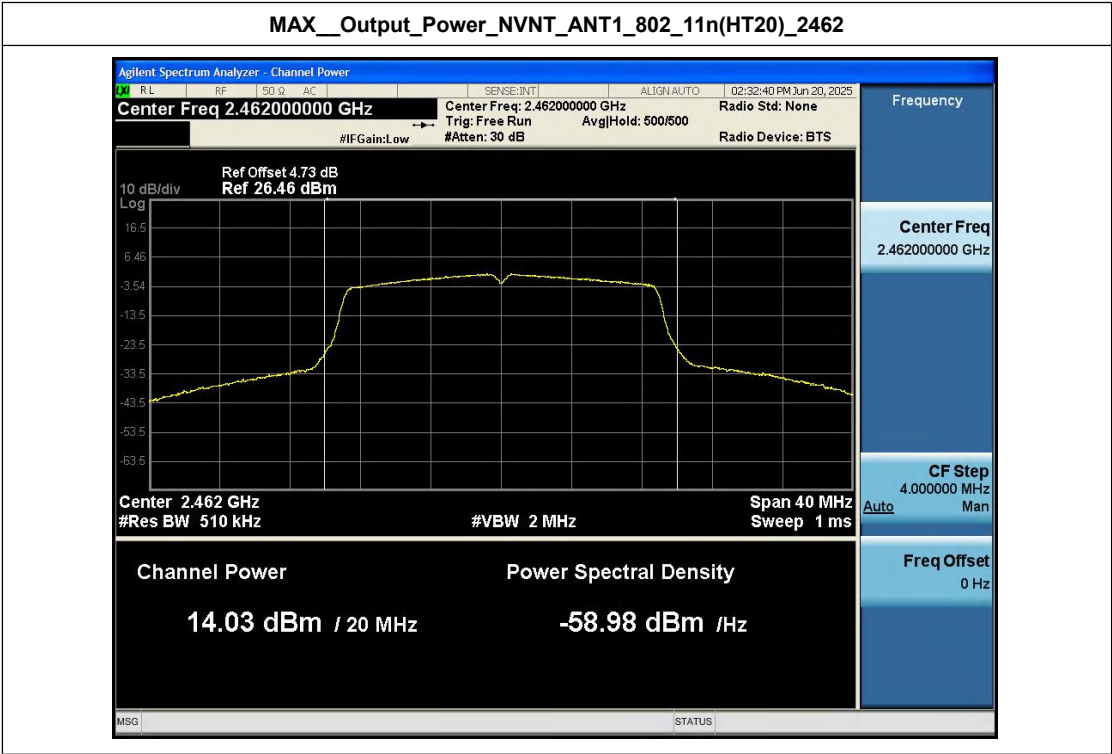
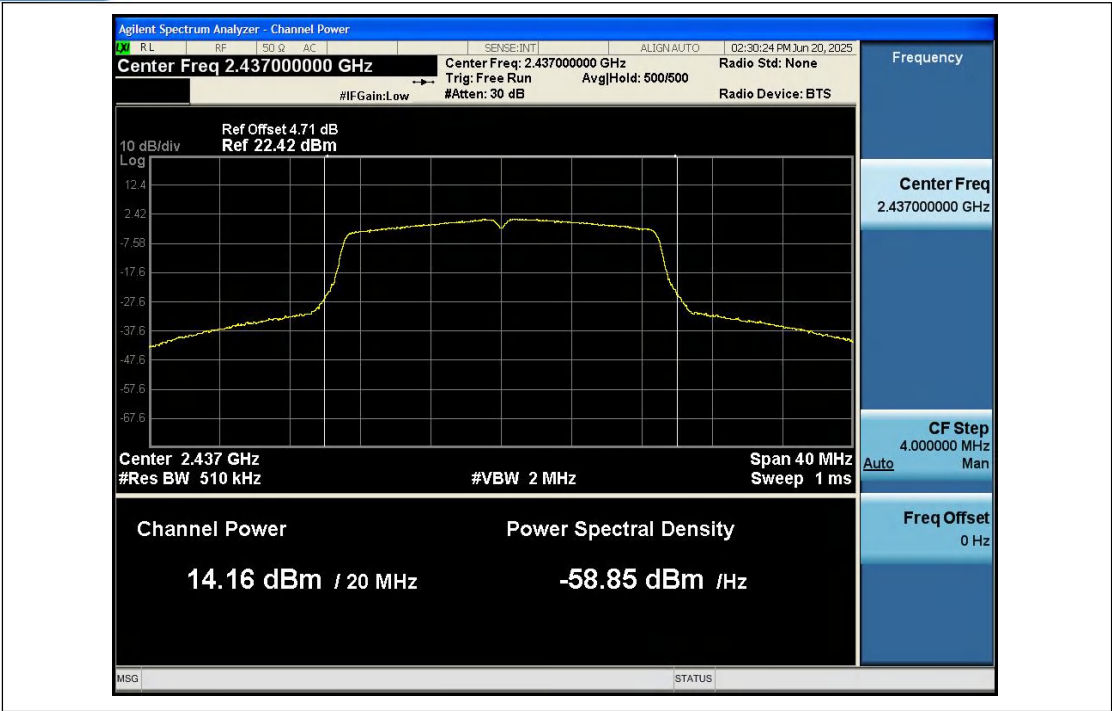
Auto

Man

Freq Offset

0 Hz

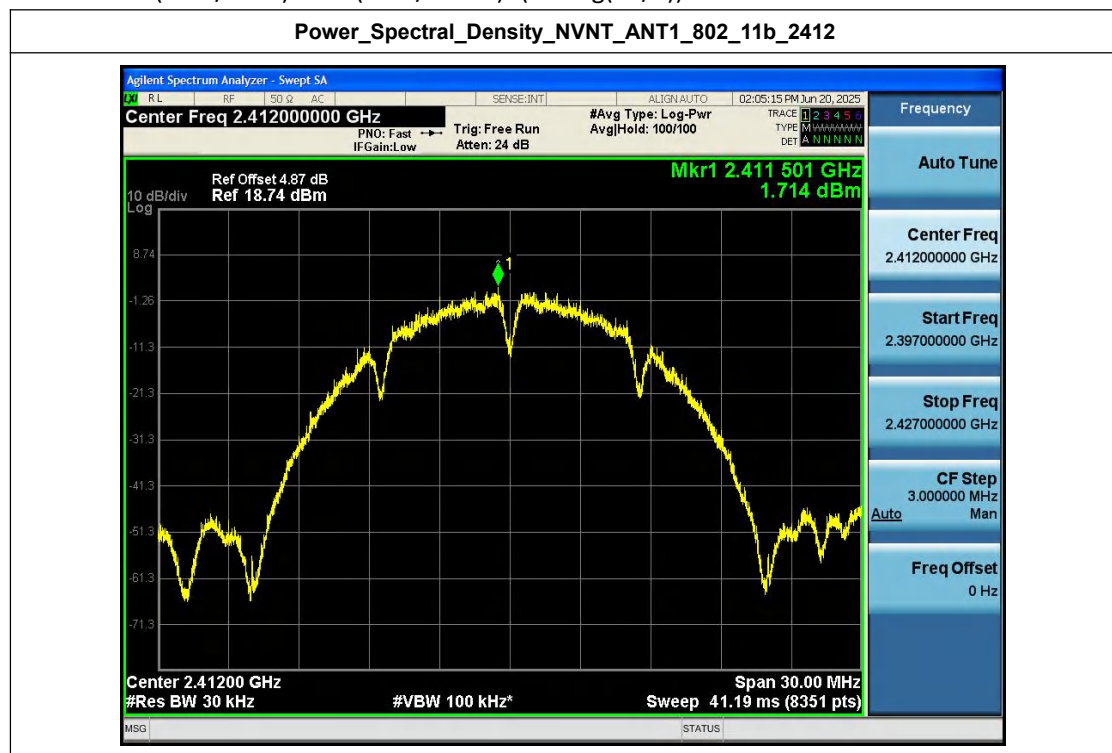
MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2437



Appendix E: Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD(dBm/30kHz)	Duty factor(dB)	RB factor(dB)	PSD(dBm/3 kHz)	limit(dBm/3 kHz)	Result
NVNT	ANT1	802.11b	2412.00	1.71	0.00	-10.00	-8.29	8	Pass
NVNT	ANT1	802.11b	2437.00	1.43	0.00	-10.00	-8.57	8	Pass
NVNT	ANT1	802.11b	2462.00	1.33	0.00	-10.00	-8.67	8	Pass
NVNT	ANT1	802.11g	2412.00	-0.34	0.00	-10.00	-10.34	8	Pass
NVNT	ANT1	802.11g	2437.00	-1.10	0.00	-10.00	-11.10	8	Pass
NVNT	ANT1	802.11g	2462.00	-1.50	0.00	-10.00	-11.50	8	Pass
NVNT	ANT1	802.11n(HT 20)	2412.00	-1.55	0.00	-10.00	-11.55	8	Pass
NVNT	ANT1	802.11n(HT 20)	2437.00	-1.82	0.00	-10.00	-11.82	8	Pass
NVNT	ANT1	802.11n(HT 20)	2462.00	-1.55	0.00	-10.00	-11.55	8	Pass

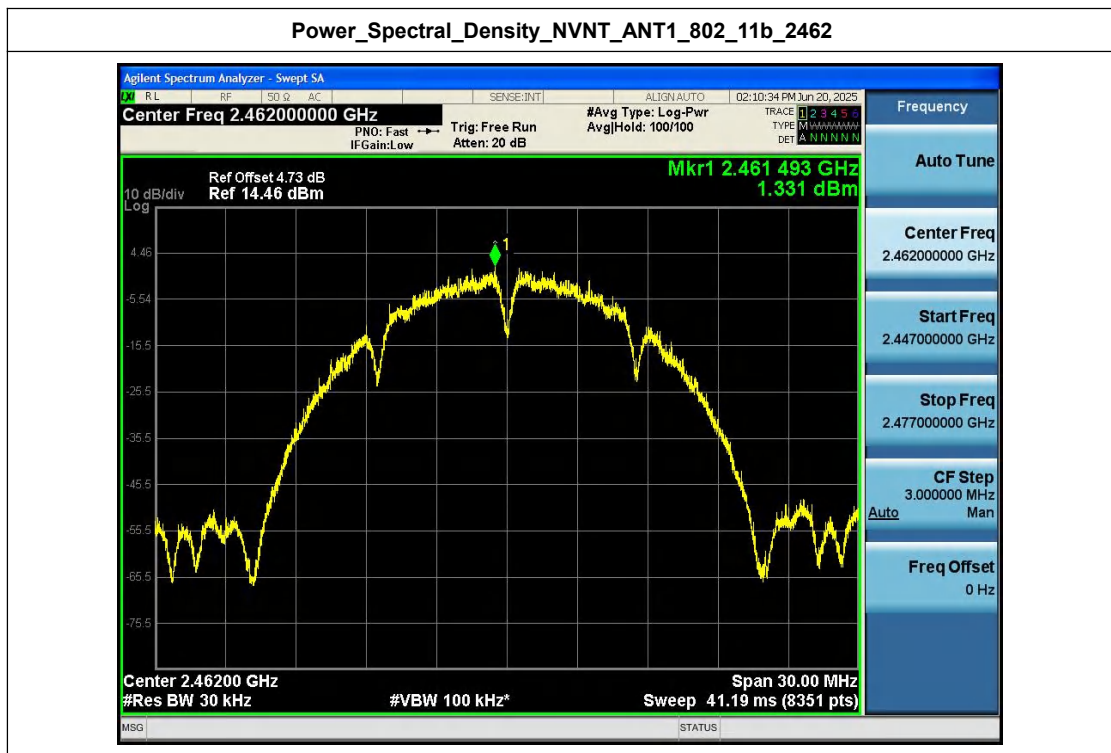
Note: 1.The cable loss are compensated in the graph.
2. $PSD(dBm/3kHz) = PSD(dBm/30kHz) - (10 \cdot \log(30/3))$.



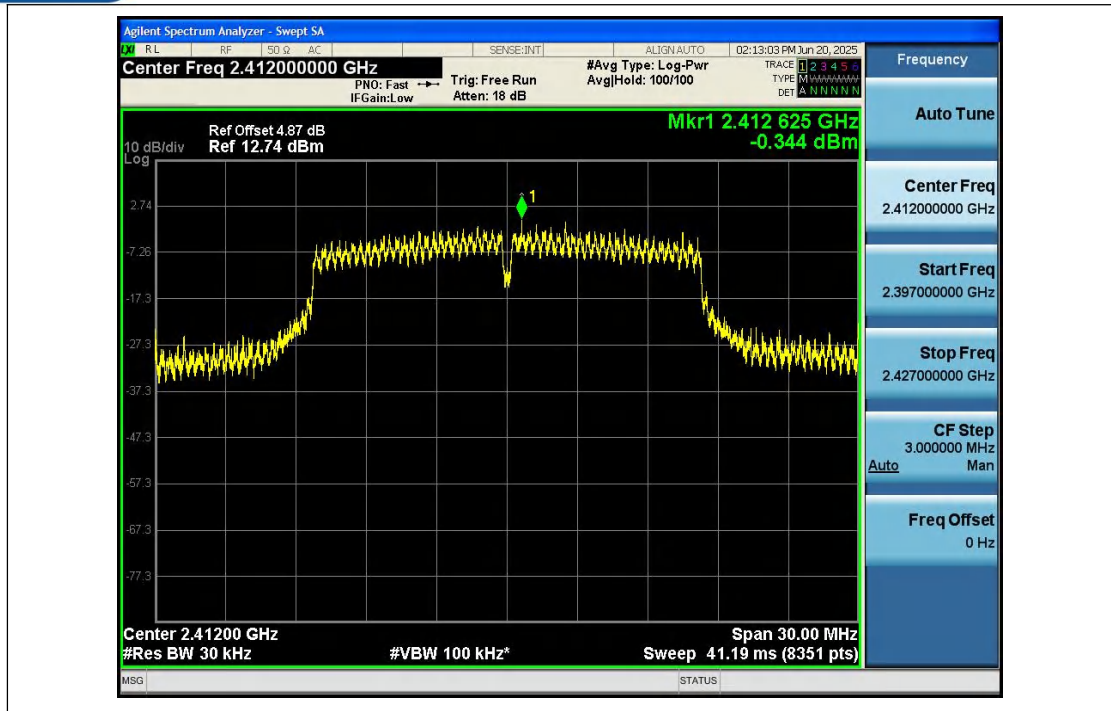
Power_Spectral_Density_NVNT_ANT1_802_11b_2437



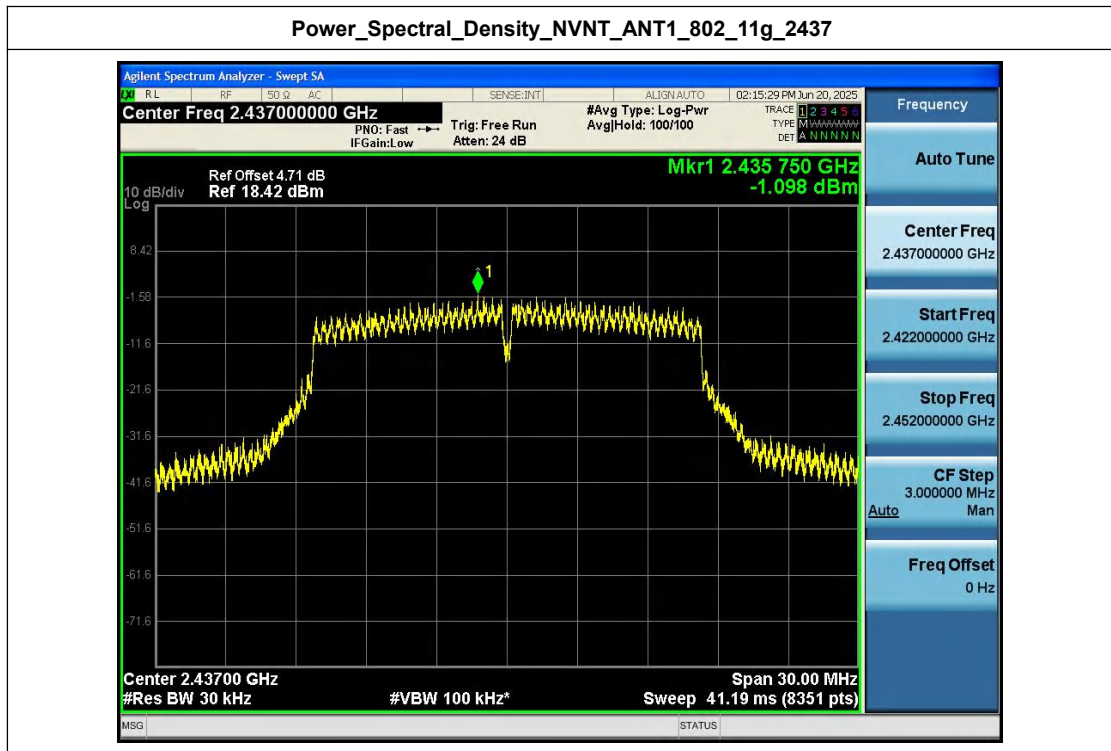
Power_Spectral_Density_NVNT_ANT1_802_11b_2462



Power_Spectral_Density_NVNT_ANT1_802_11g_2412



Power_Spectral_Density_NVNT_ANT1_802_11g_2437

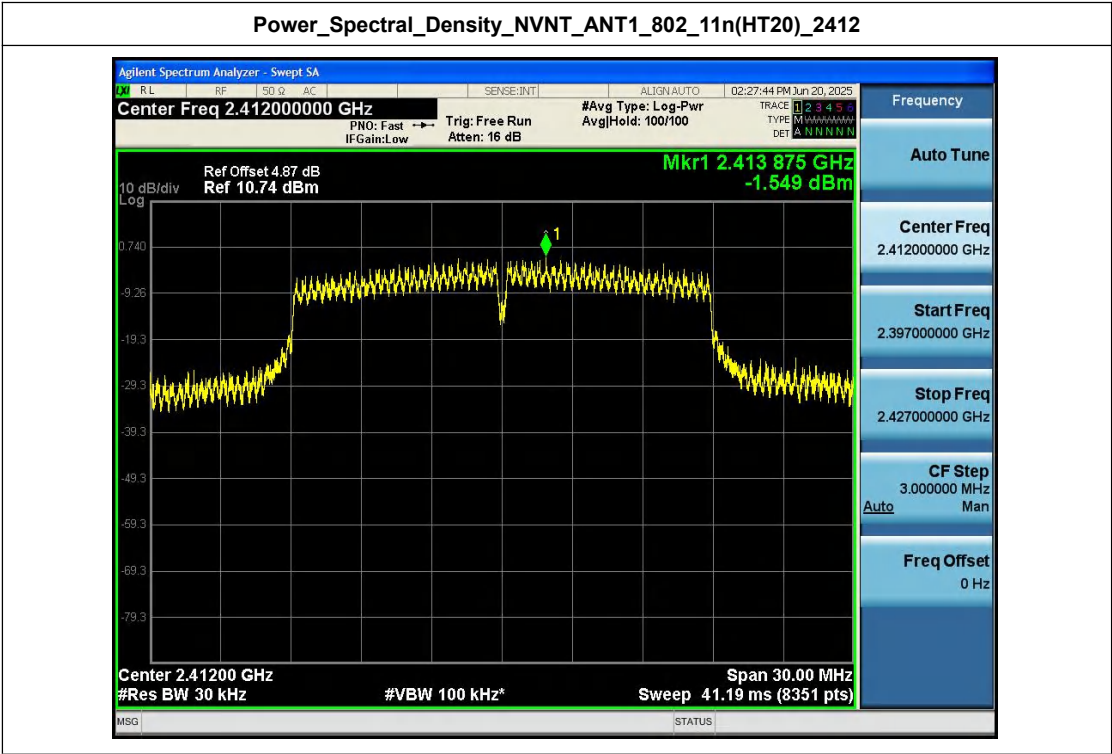


Power_Spectral_Density_NVNT_ANT1_802_11g_2462





Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437