

Appendix Test Data

Report No.:	1812C50297512502	Test Sample No.:	1-2-2
Start Test Date:	2025.6.20	Finish Test Date:	2025.7.14
Test Engineer:	<i>Liangfei Yang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	22.3°C	Relative Humidity:	50%
Pressure:	101kPa		

Appendix A: -6dB Bandwidth

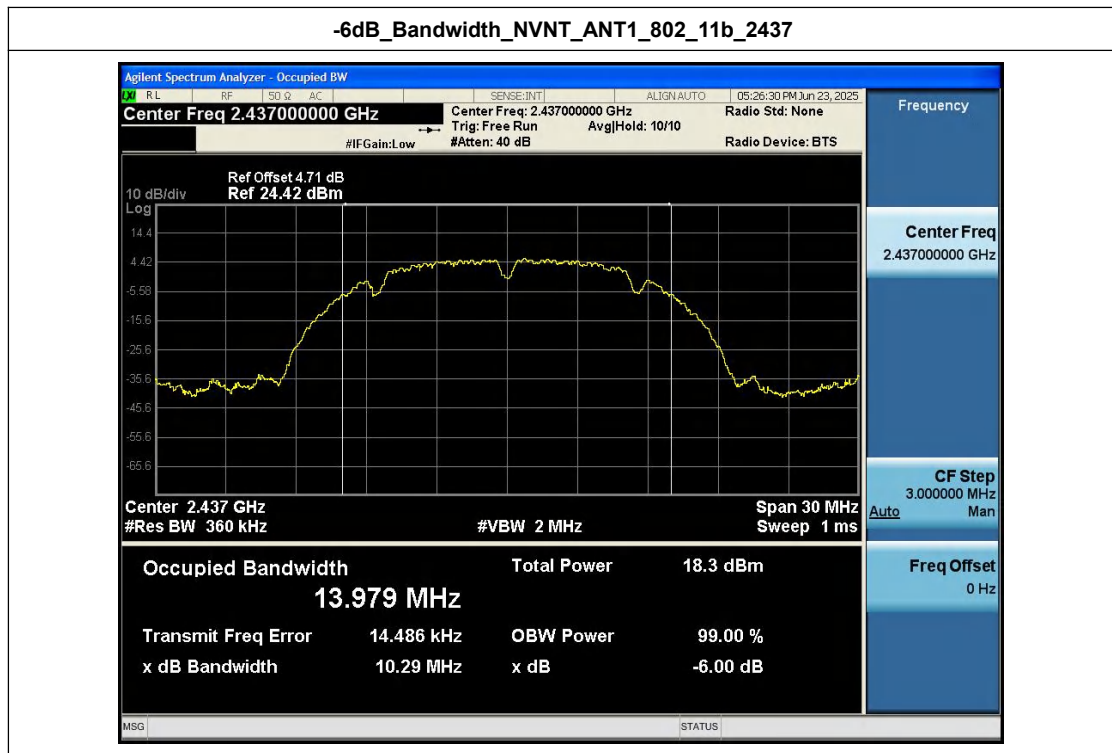
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	10.30	500	Pass
NVNT	ANT1	802.11b	2437.00	10.29	500	Pass
NVNT	ANT1	802.11b	2462.00	10.28	500	Pass
NVNT	ANT1	802.11g	2412.00	14.75	500	Pass
NVNT	ANT1	802.11g	2437.00	14.74	500	Pass
NVNT	ANT1	802.11g	2462.00	14.78	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	16.13	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	16.30	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	16.27	500	Pass

-6dB_Bandwidth_NVNT_ANT1_802_11b_2412



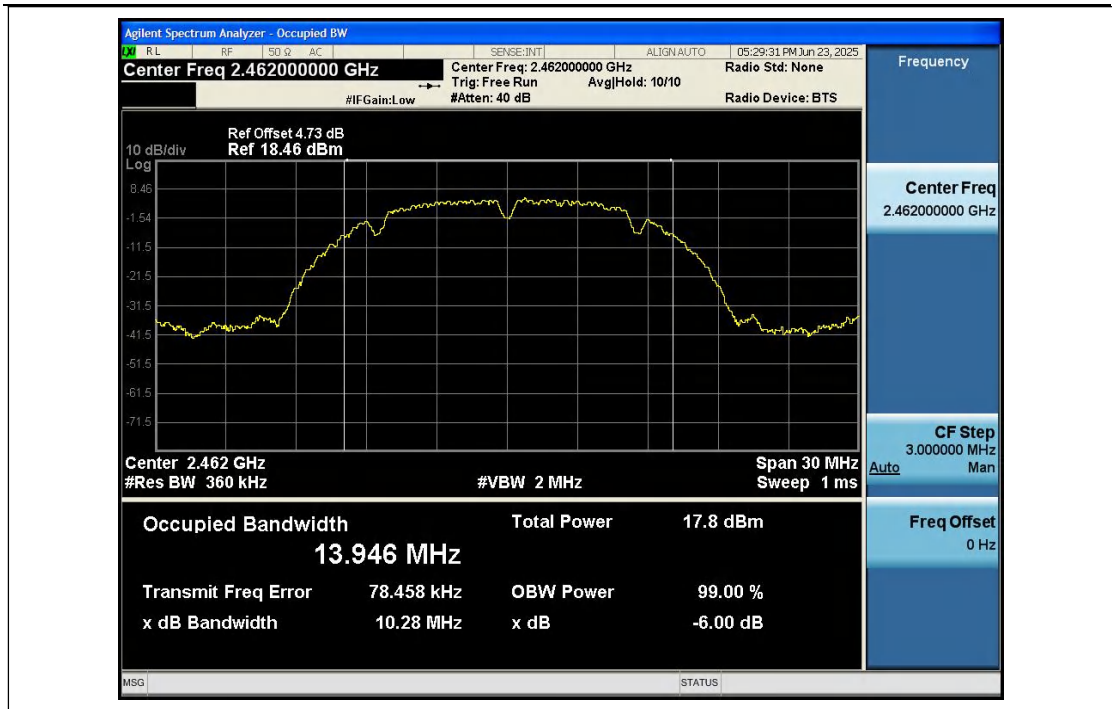


-6dB_Bandwidth_NVNT_ANT1_802_11b_2437

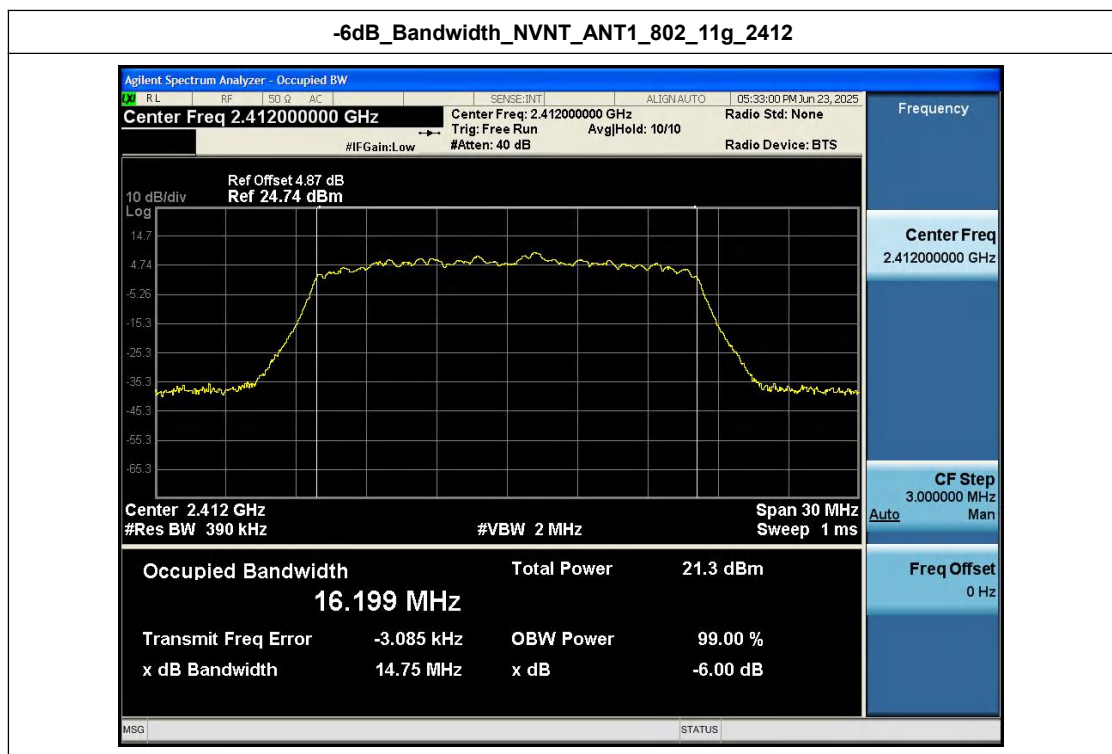


-6dB_Bandwidth_NVNT_ANT1_802_11b_2462

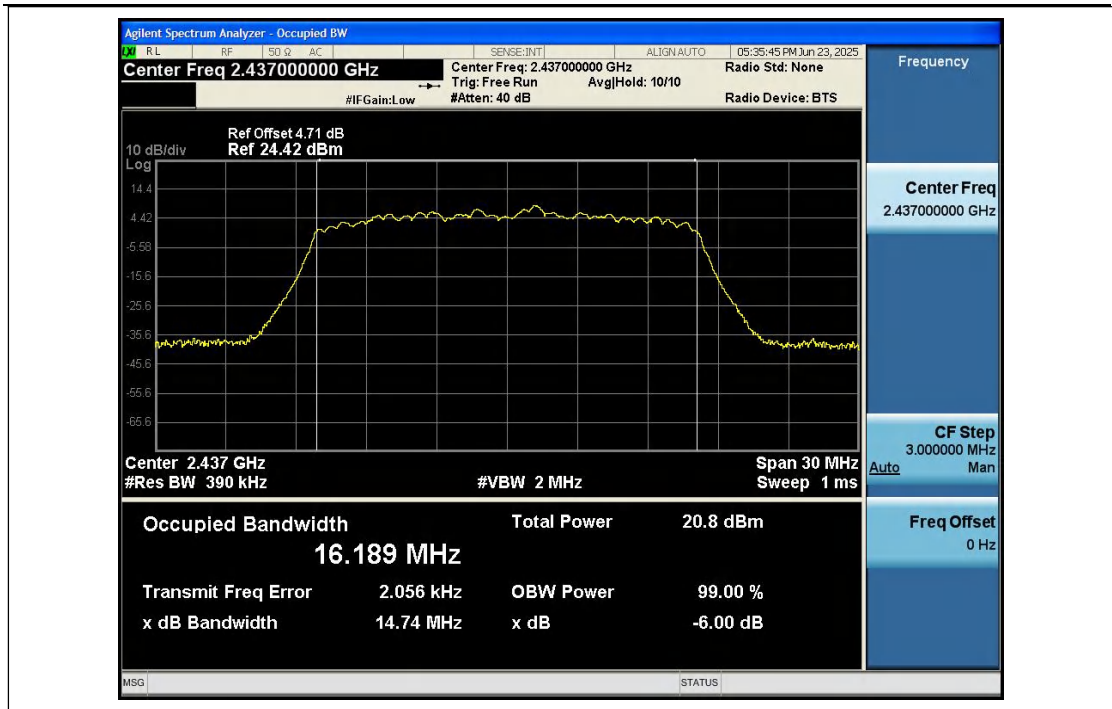




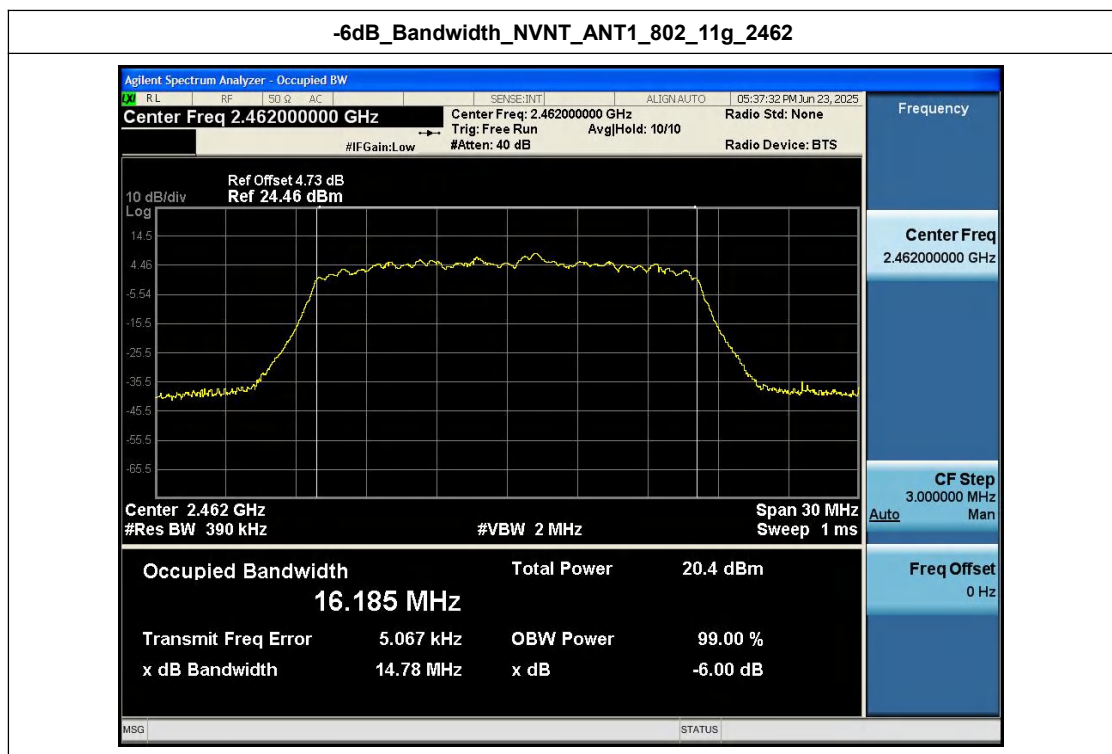
-6dB_Bandwidth_NVNT_ANT1_802_11g_2412



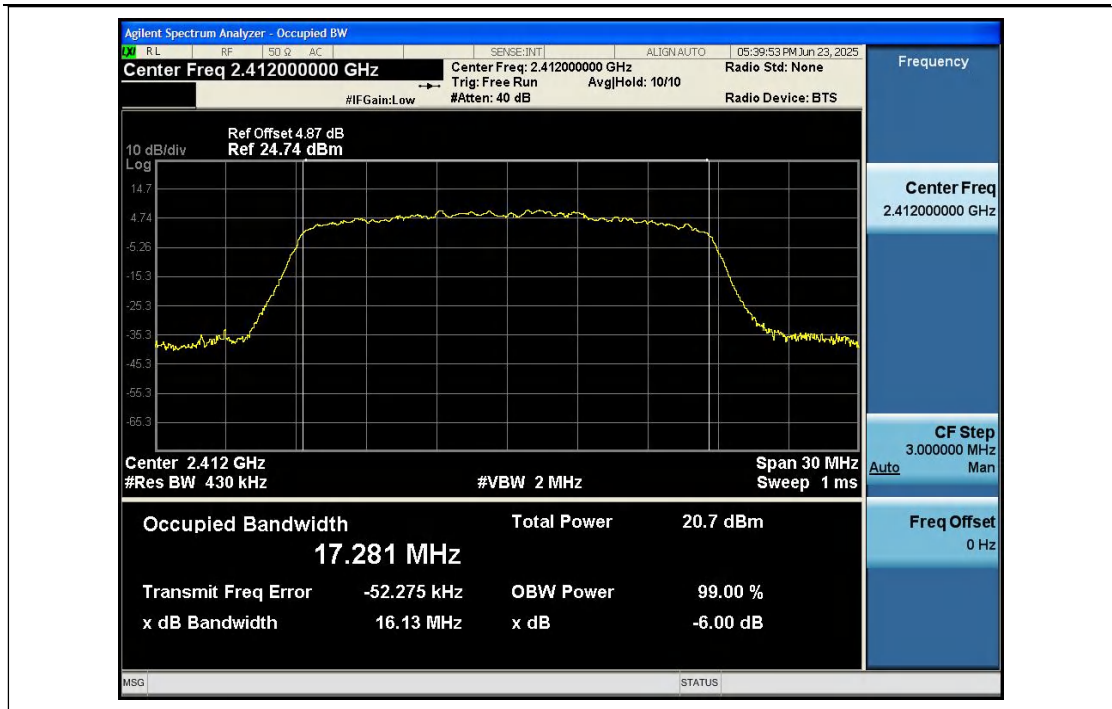
-6dB_Bandwidth_NVNT_ANT1_802_11g_2437



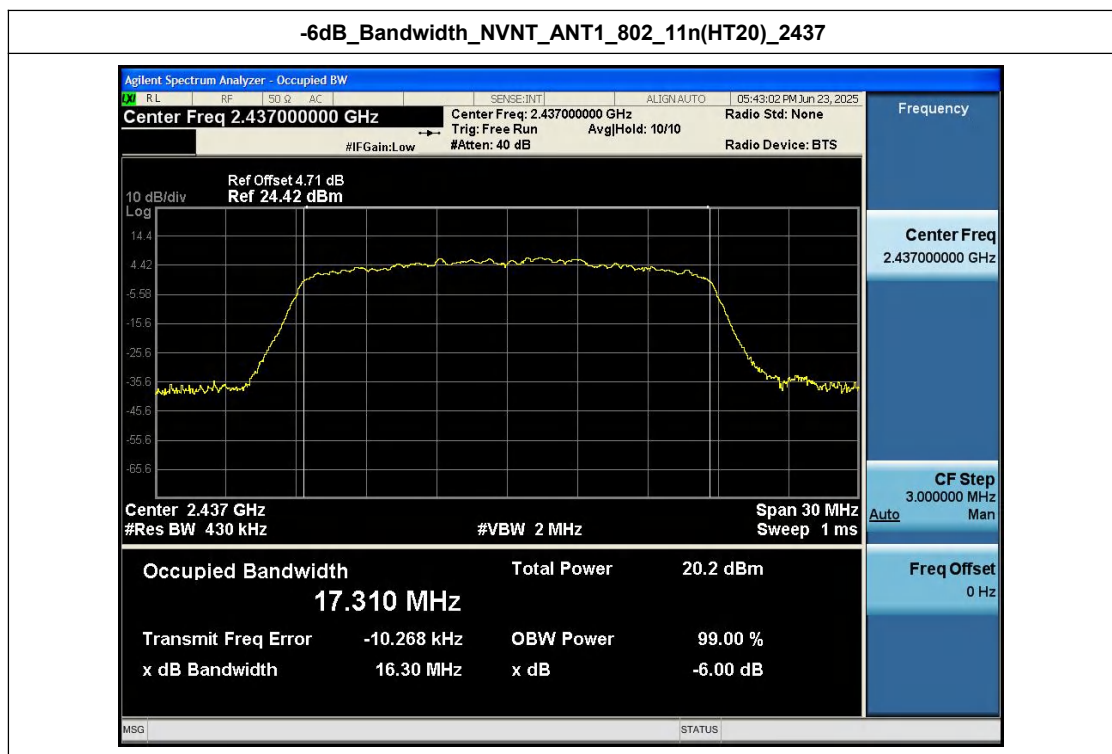
-6dB_Bandwidth_NVNT_ANT1_802_11g_2462



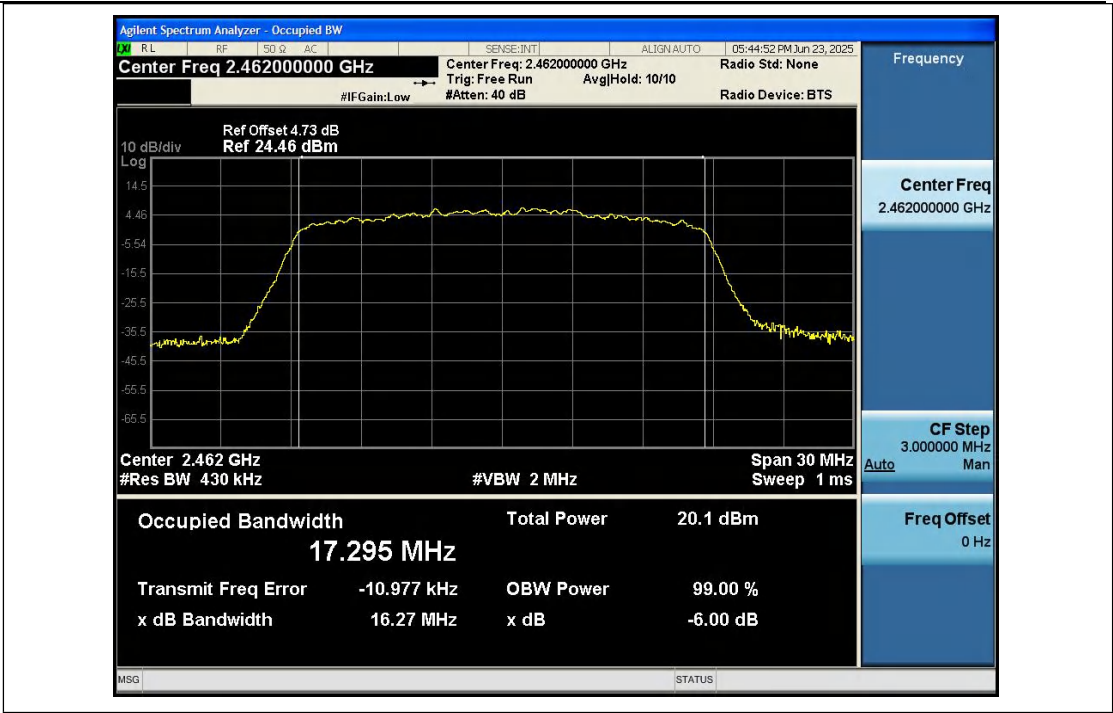
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



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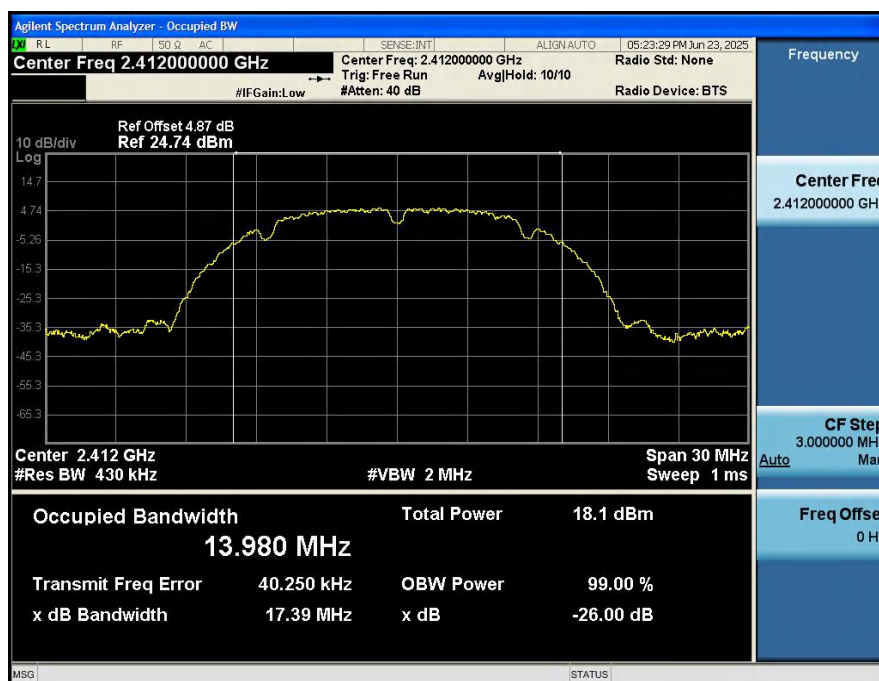
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park,
Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Tel: (86) 0755-26066440 Email: service@anbotek.com

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400-003-0500
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Appendix B: 99% Occupied Bandwidth

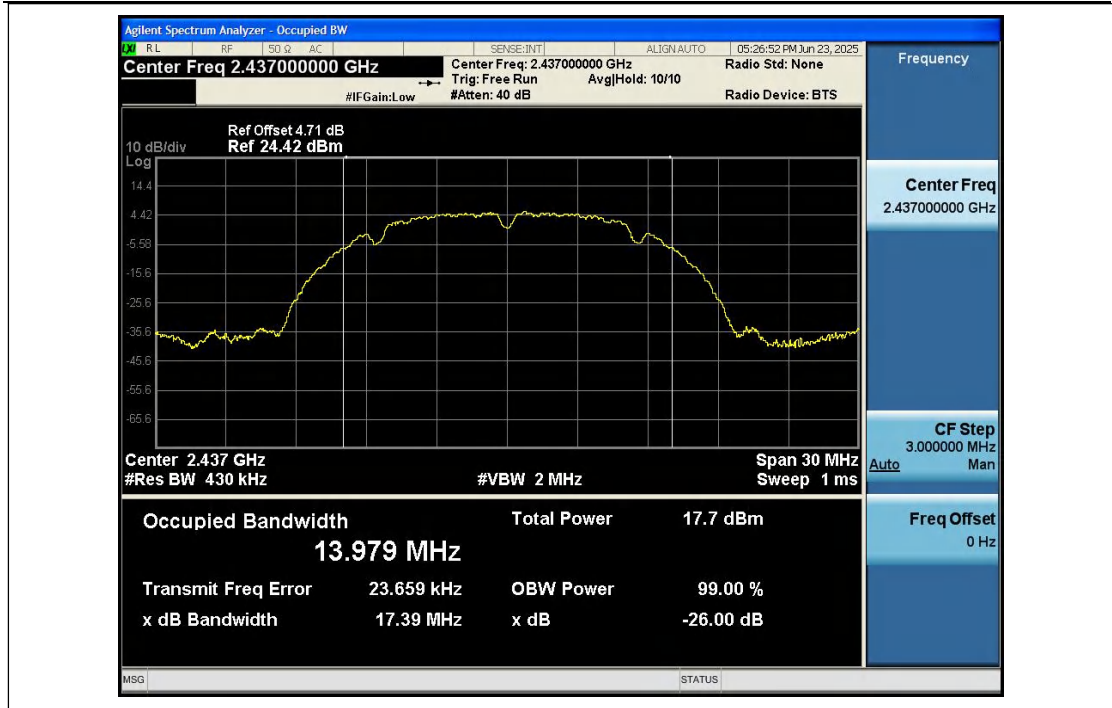
Condition	Antenna	Modulation	Frequency (MHz)	99%BW(MHz)
NVNT	ANT1	802.11b	2412.00	13.980
NVNT	ANT1	802.11b	2437.00	13.979
NVNT	ANT1	802.11b	2462.00	14.004
NVNT	ANT1	802.11g	2412.00	16.199
NVNT	ANT1	802.11g	2437.00	16.197
NVNT	ANT1	802.11g	2462.00	16.193
NVNT	ANT1	802.11n(HT20)	2412.00	17.292
NVNT	ANT1	802.11n(HT20)	2437.00	17.324
NVNT	ANT1	802.11n(HT20)	2462.00	17.306

99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2412

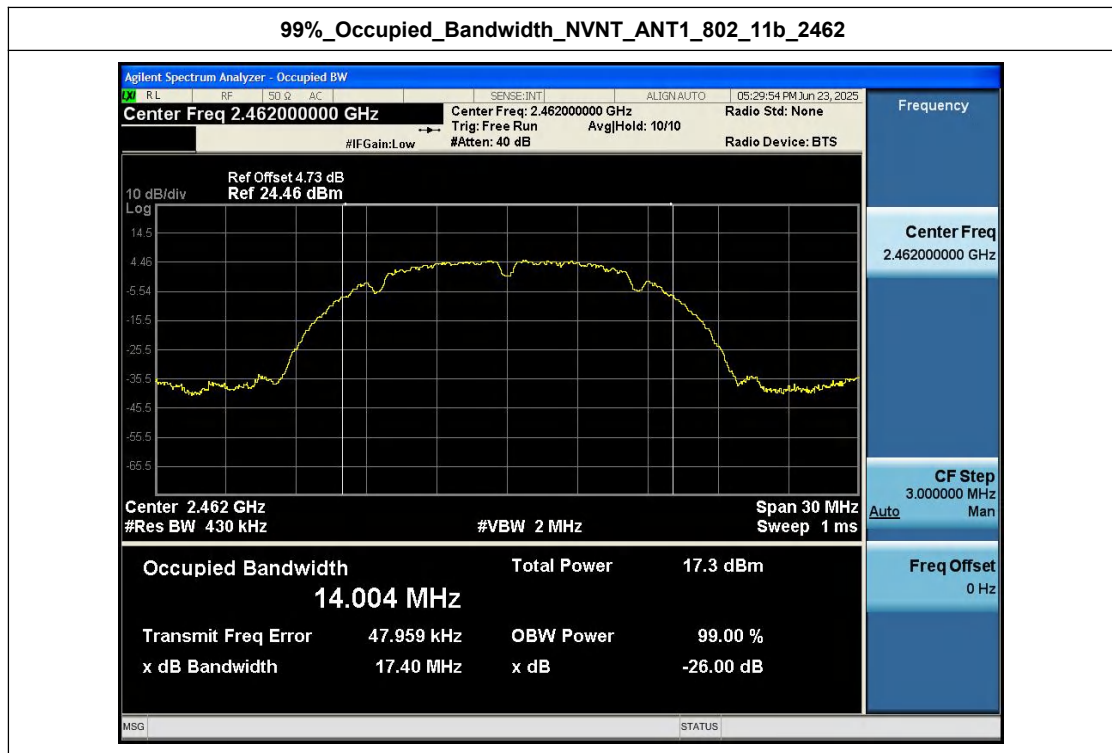


99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2437

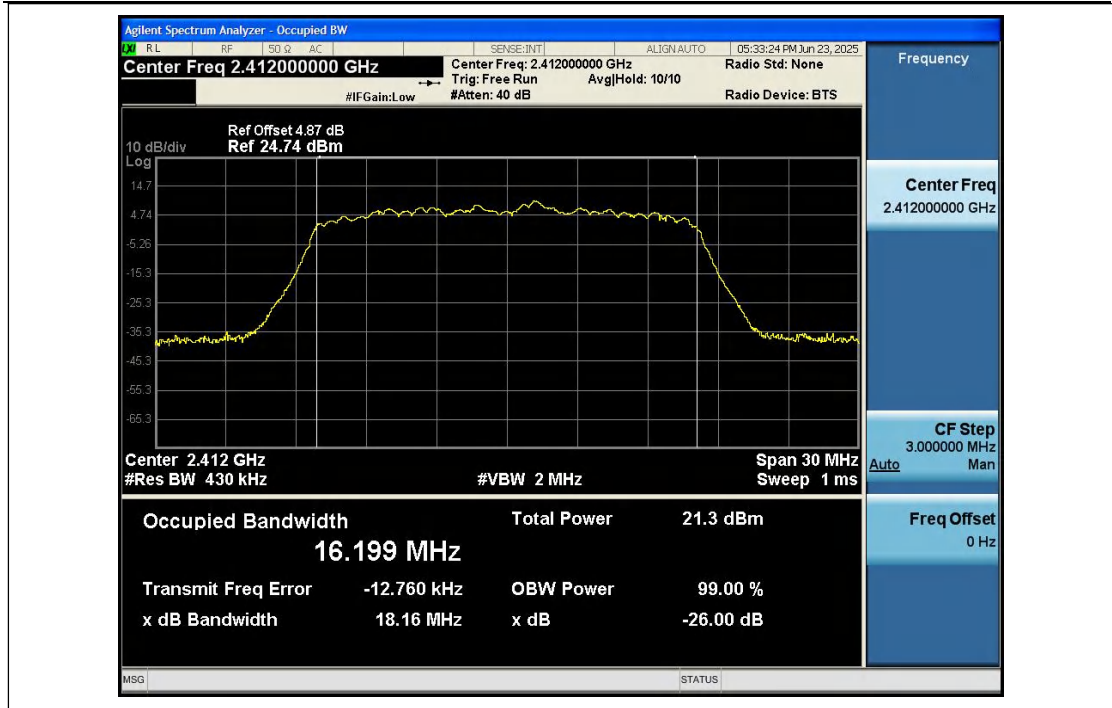




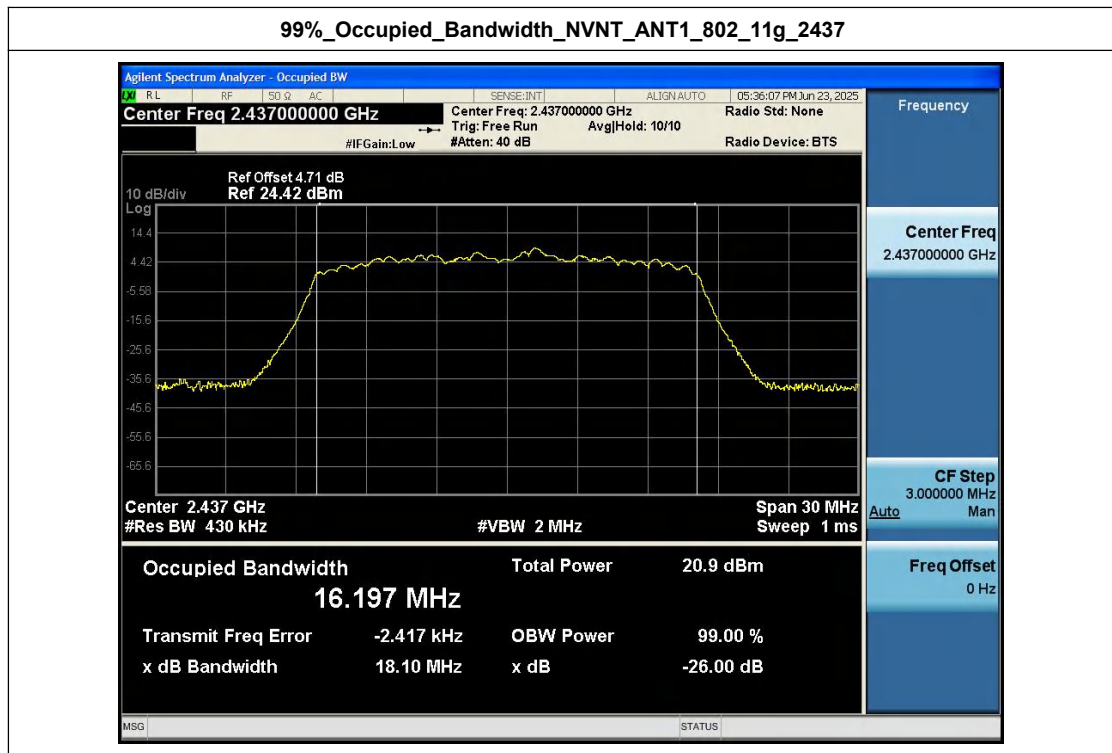
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2462



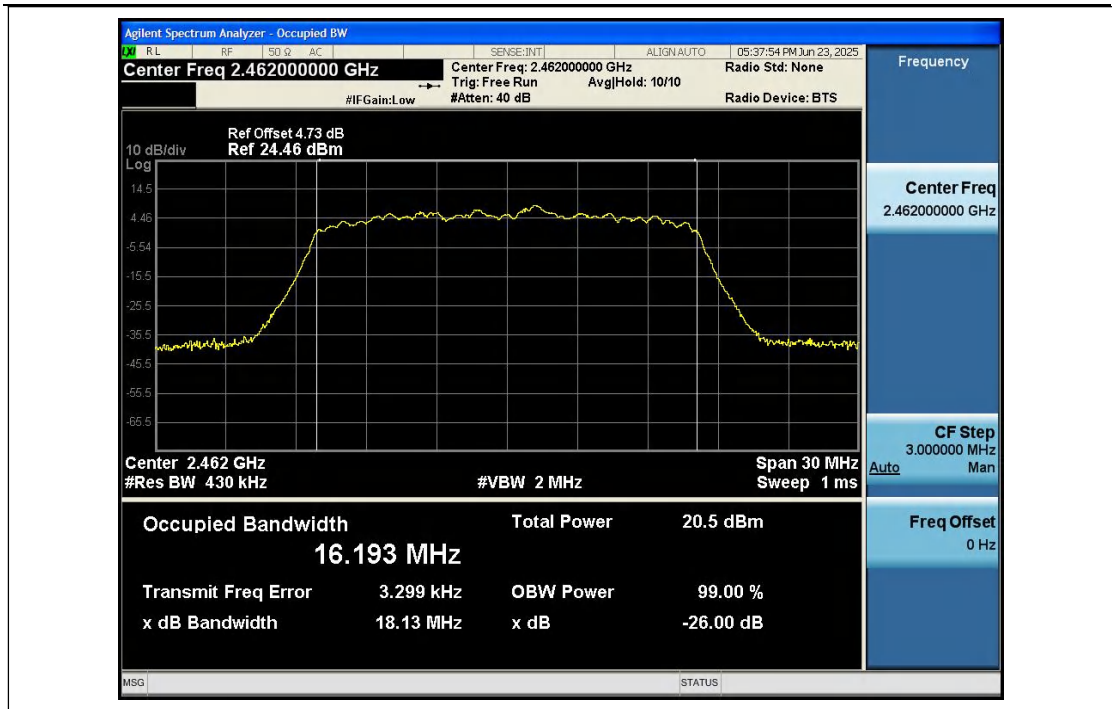
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2412



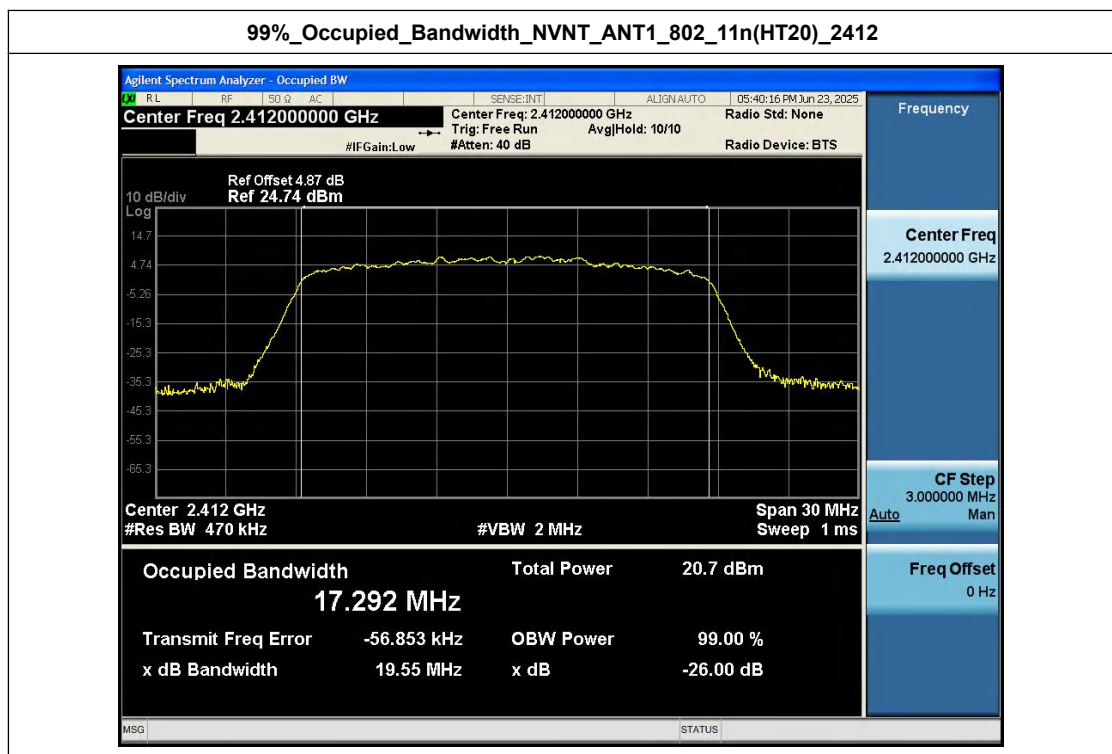
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2437



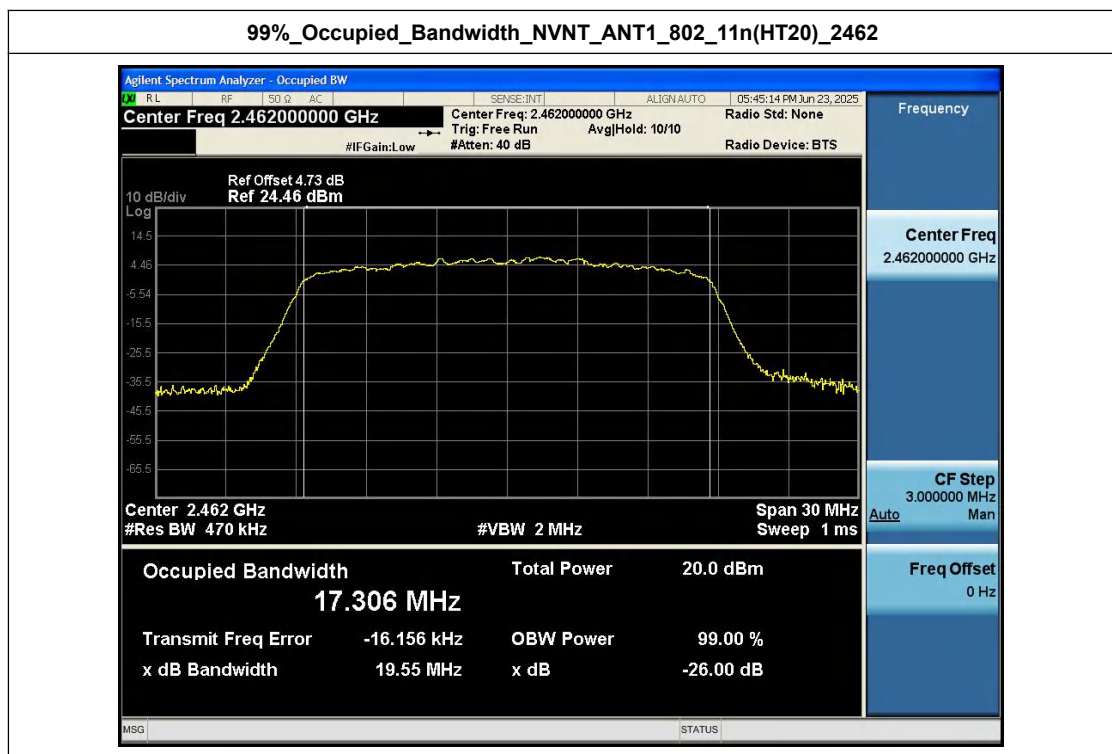
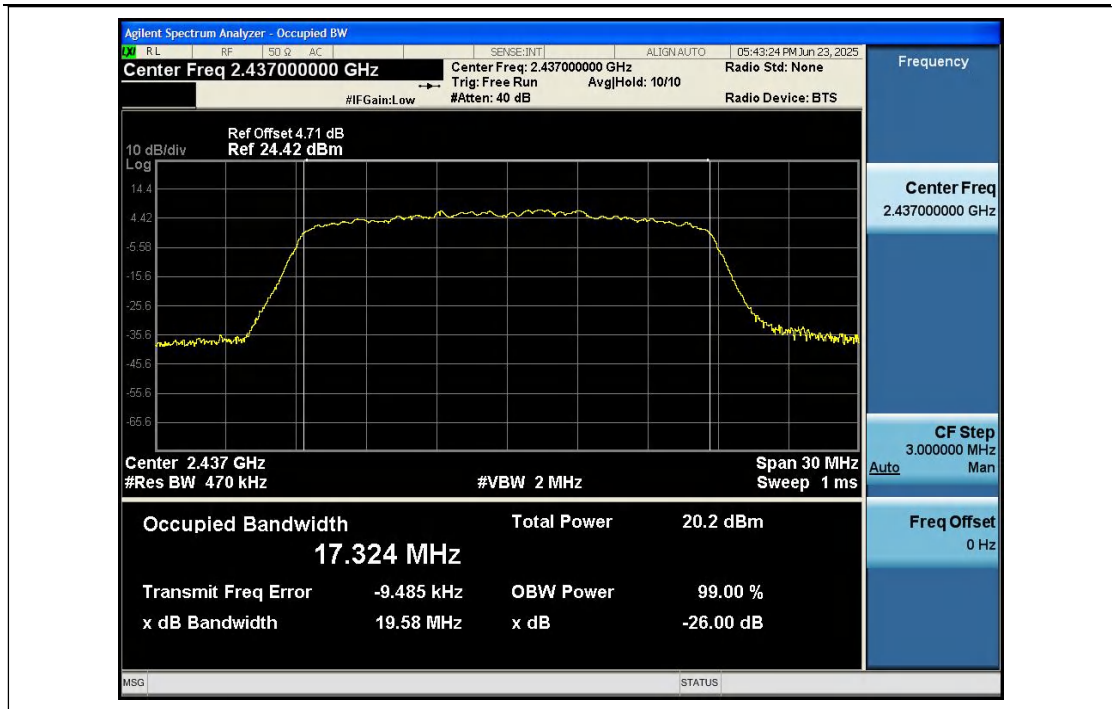
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2462



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



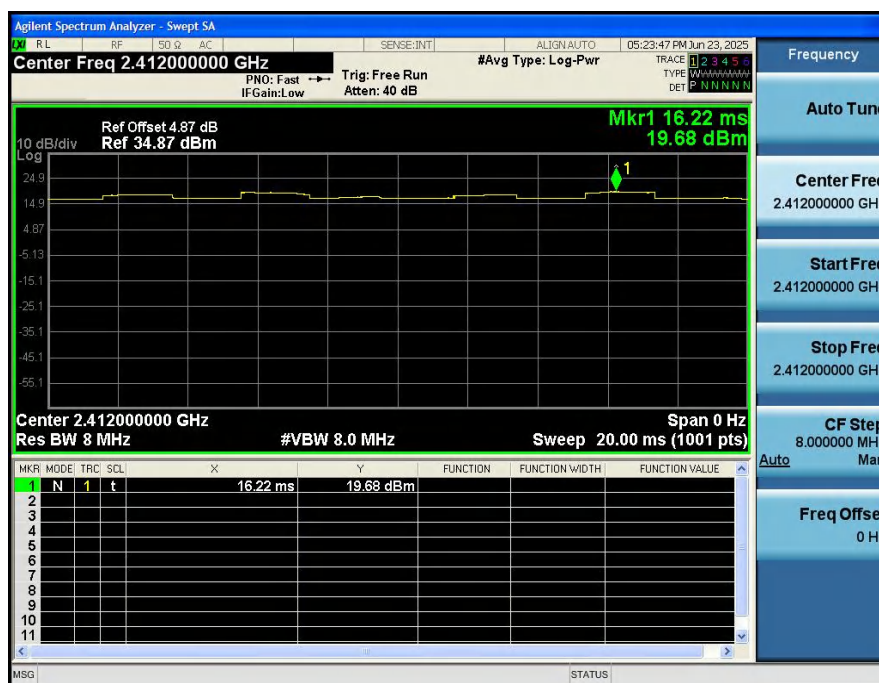
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



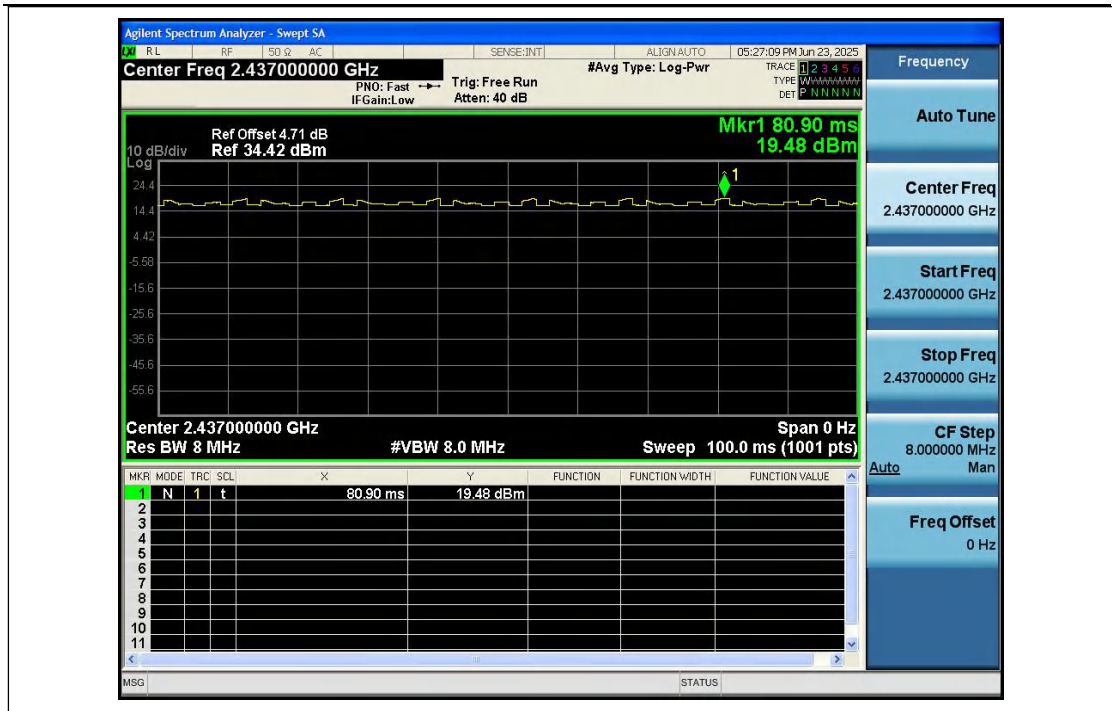
Appendix C: Duty Cycle

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

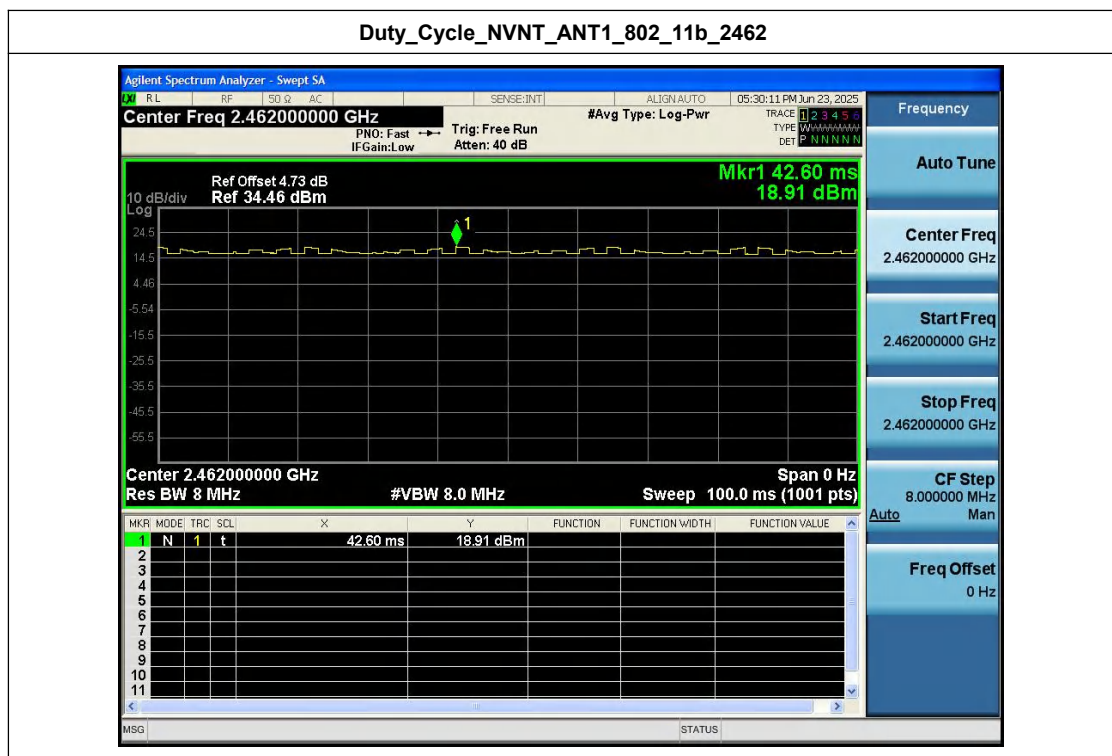
Duty_Cycle_NVNT_ANT1_802_11b_2412



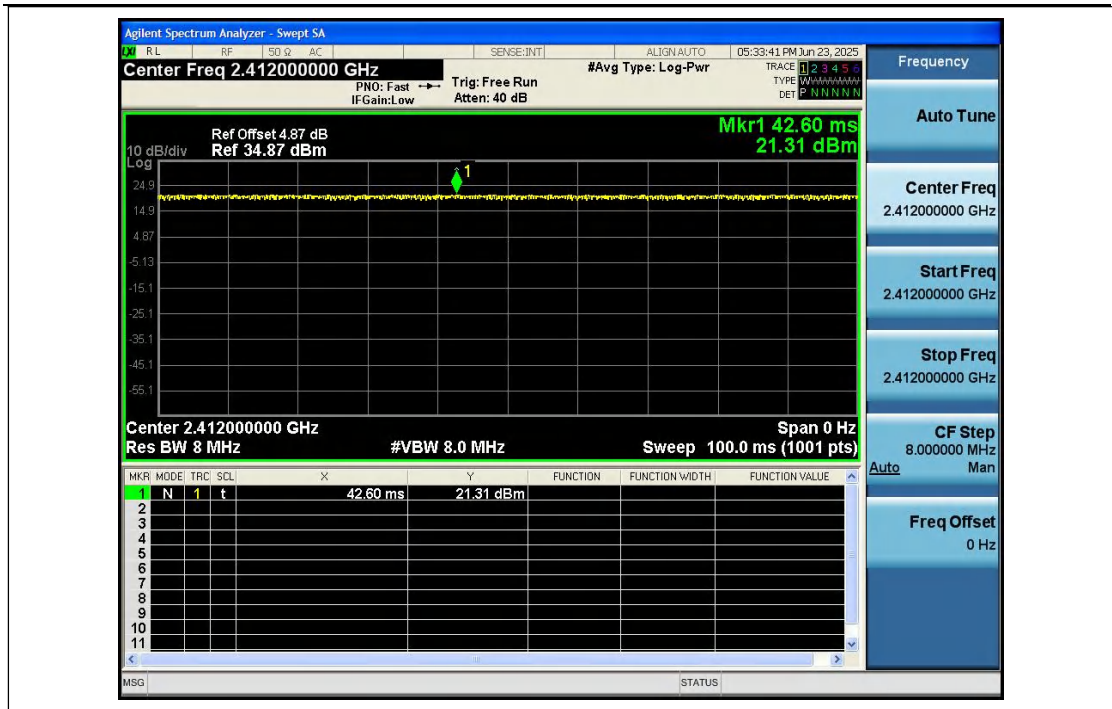
Duty_Cycle_NVNT_ANT1_802_11b_2437



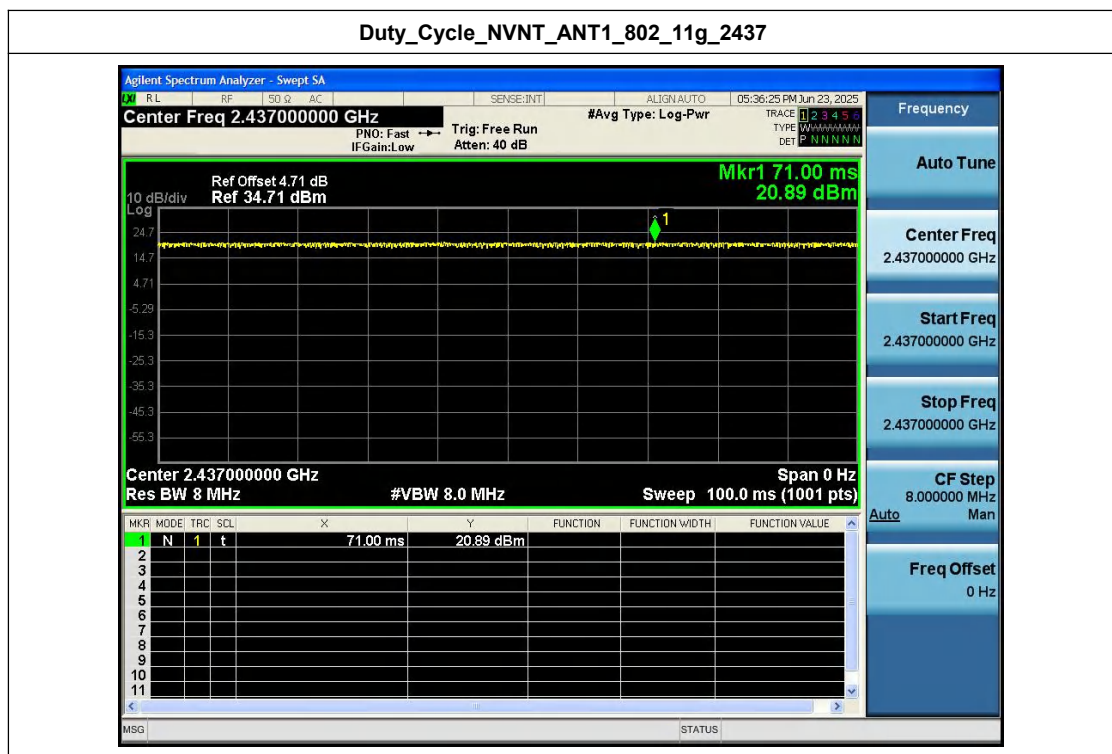
Duty_Cycle_NVNT_ANT1_802_11b_2462



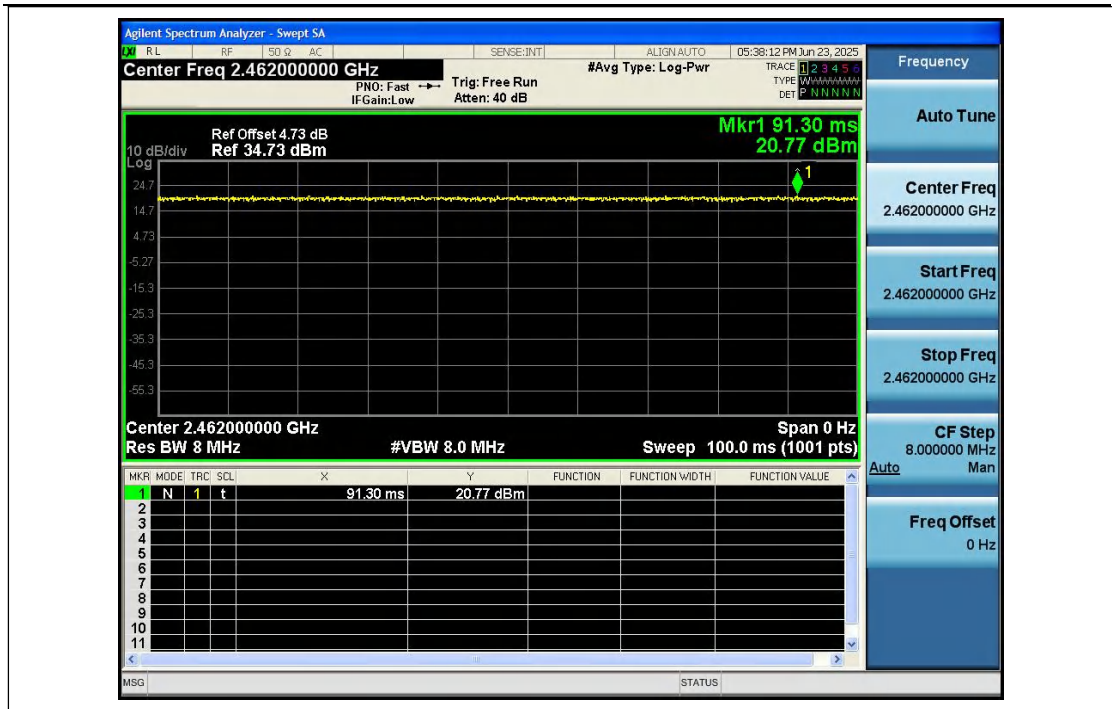
Duty_Cycle_NVNT_ANT1_802_11g_2412



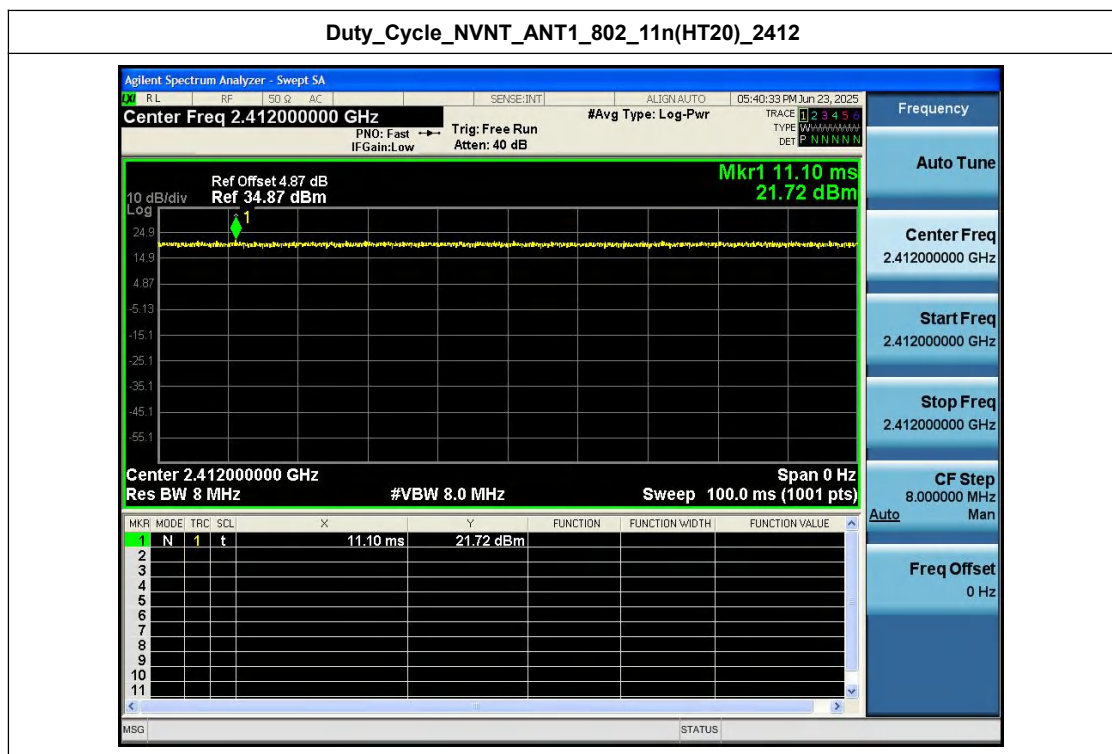
Duty_Cycle_NVNT_ANT1_802_11g_2437



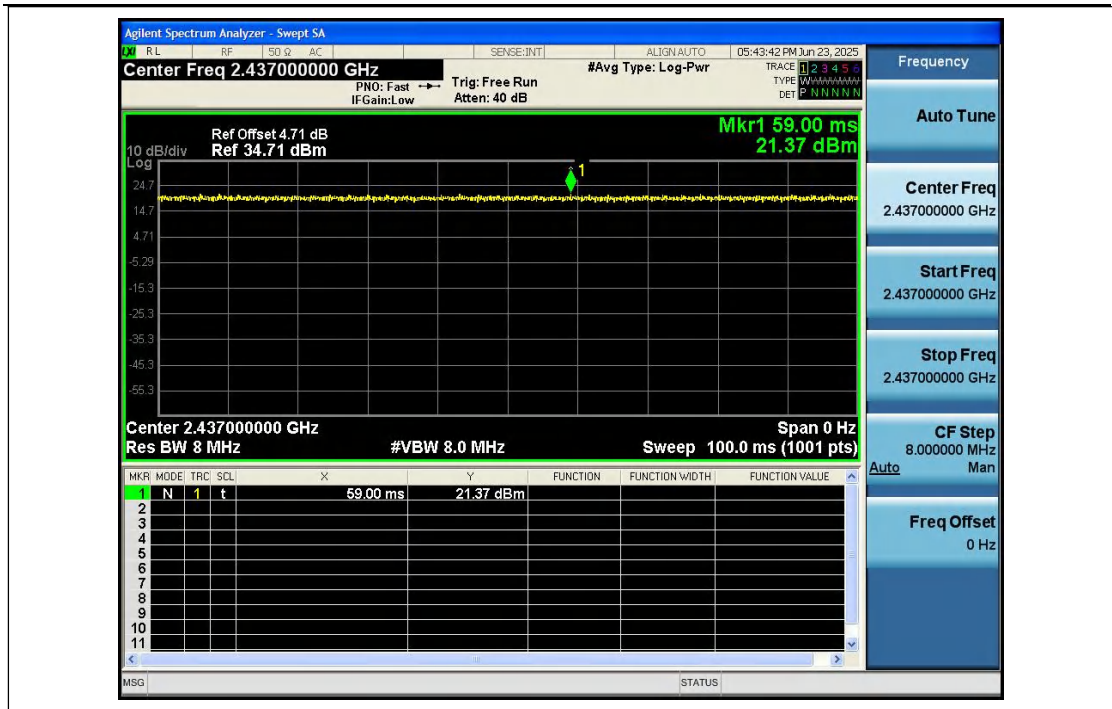
Duty_Cycle_NVNT_ANT1_802_11g_2462



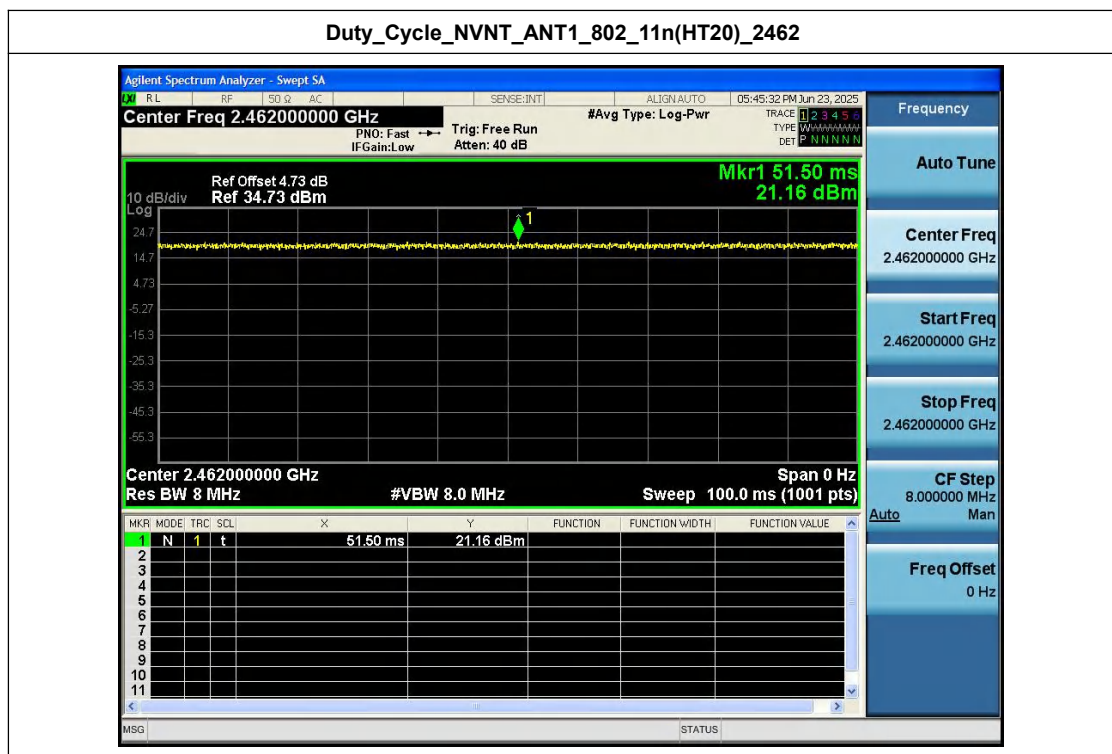
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



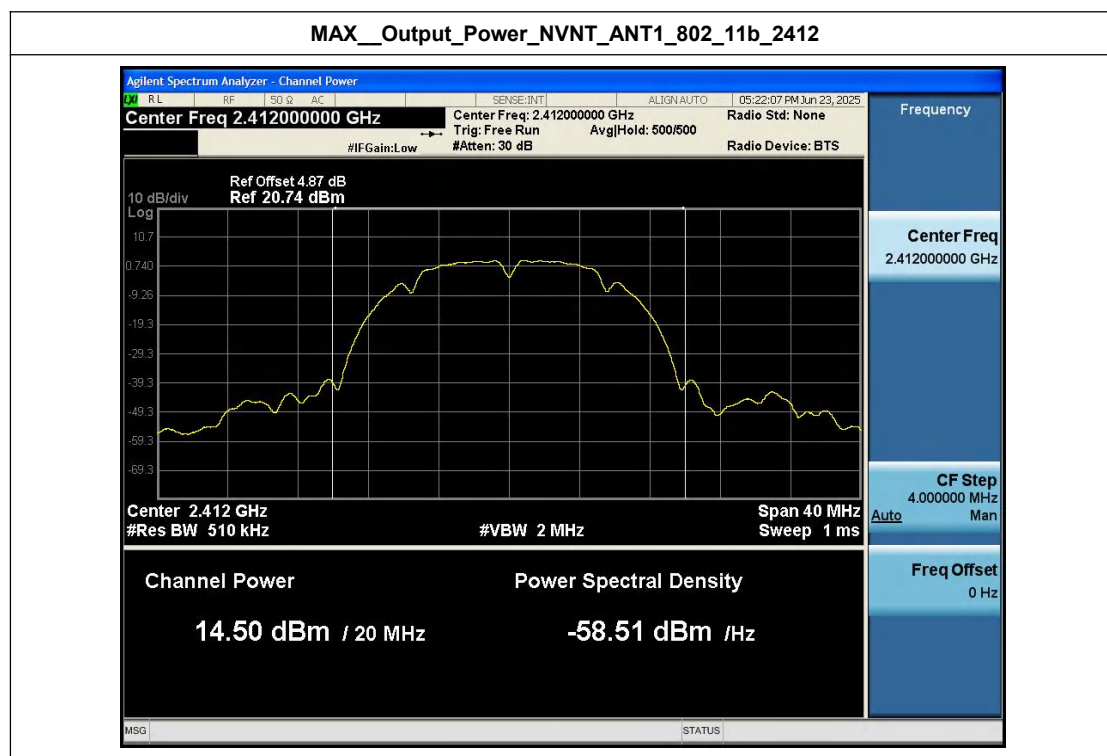
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462



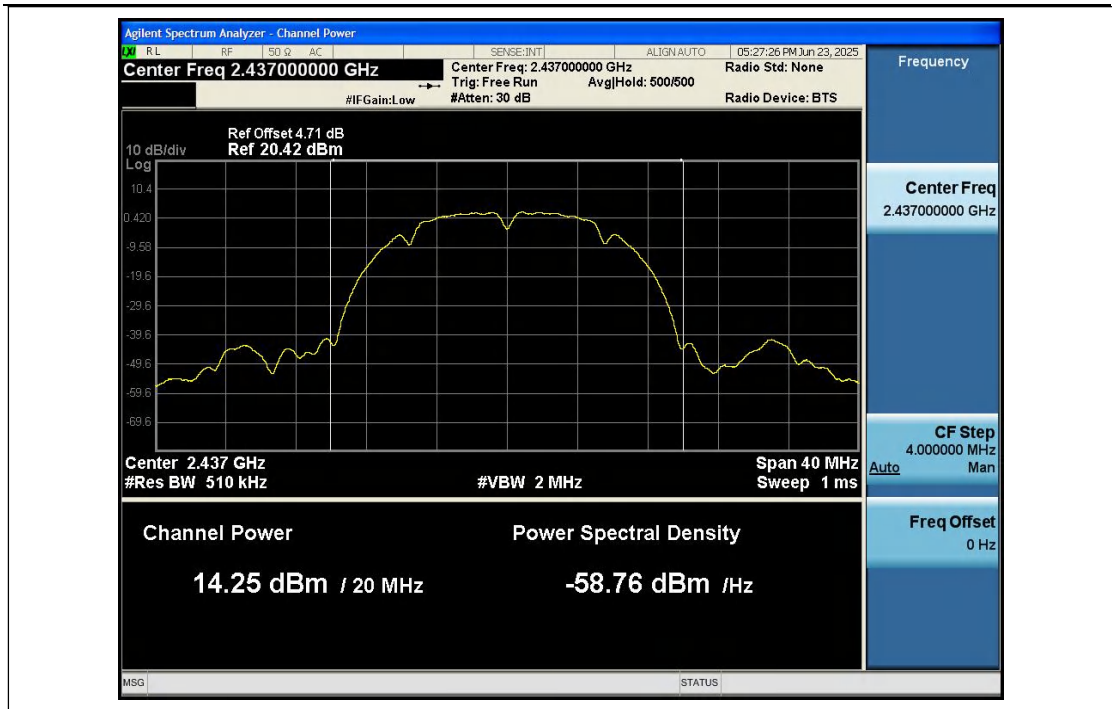
Appendix D: MAX. Output Power

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	14.50	0.00	14.50	30	Pass
NVNT	ANT1	802.11b	2437.00	RMS	14.25	0.00	14.25	30	Pass
NVNT	ANT1	802.11b	2462.00	RMS	13.86	0.00	13.86	30	Pass
NVNT	ANT1	802.11g	2412.00	RMS	14.18	0.00	14.18	30	Pass
NVNT	ANT1	802.11g	2437.00	RMS	13.71	0.00	13.71	30	Pass
NVNT	ANT1	802.11g	2462.00	RMS	13.36	0.00	13.36	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	RMS	14.03	0.00	14.03	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	RMS	13.56	0.00	13.56	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	RMS	13.36	0.00	13.36	30	Pass

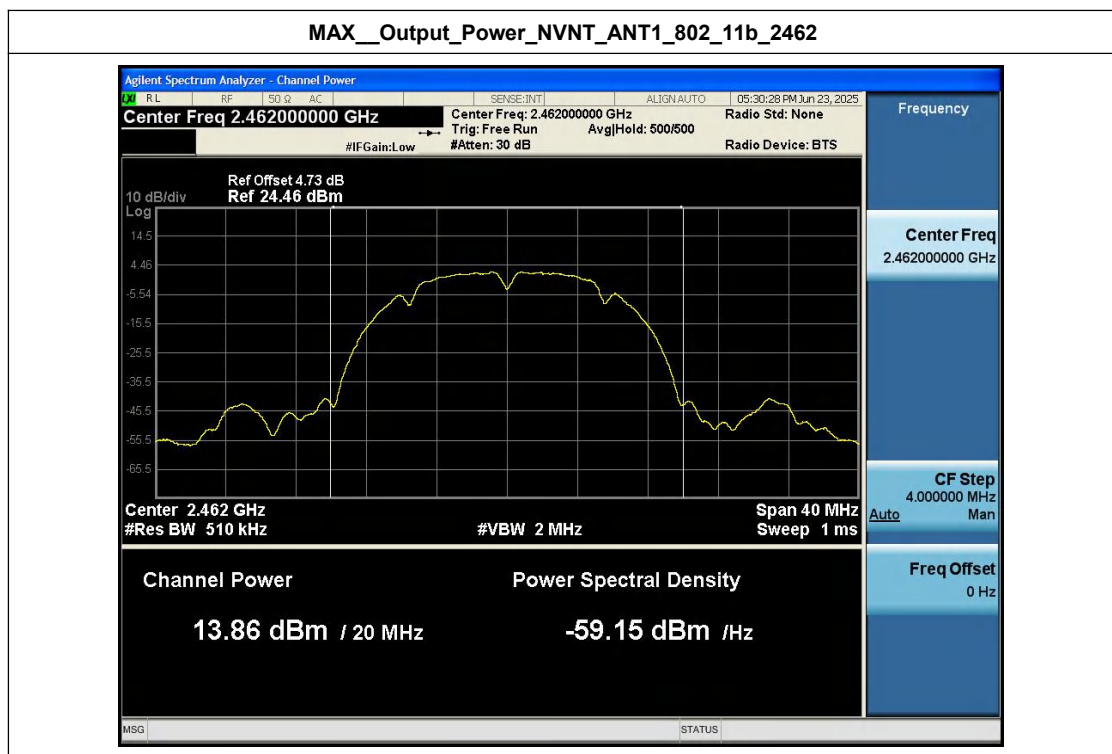
Note: 1. The cable loss are compensated in the graph.



MAX_Output_Power_NVNT_ANT1_802_11b_2437



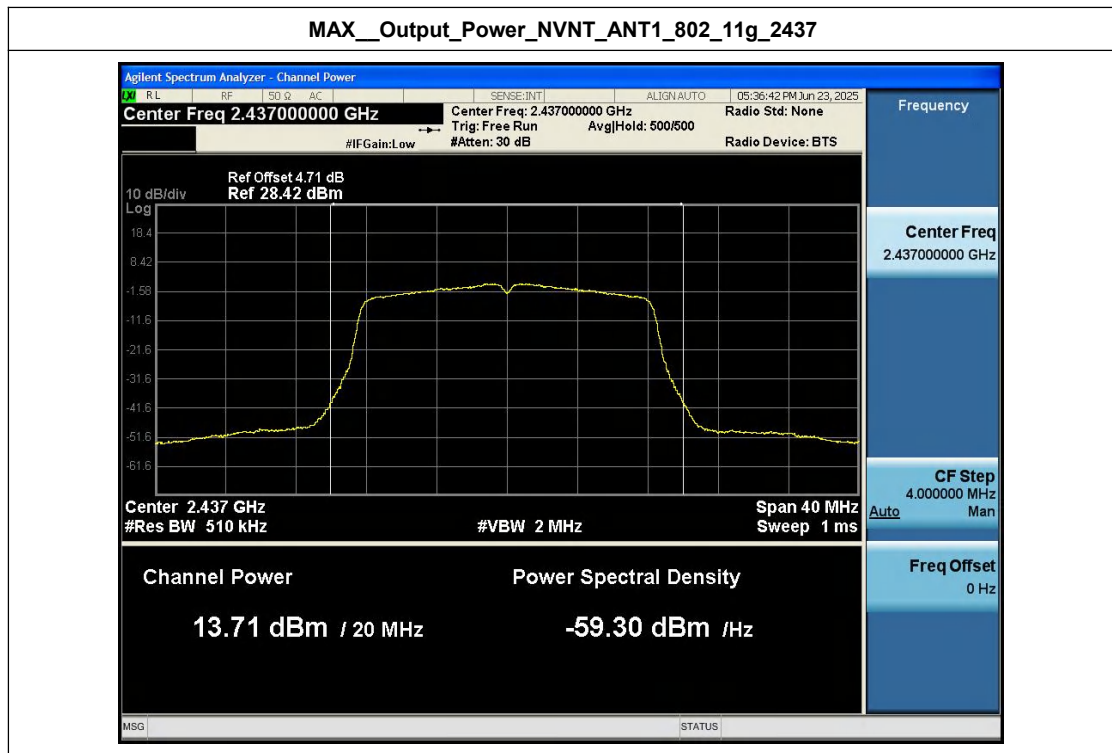
MAX__Output_Power_NVNT_ANT1_802_11b_2462



MAX__Output_Power_NVNT_ANT1_802_11g_2412

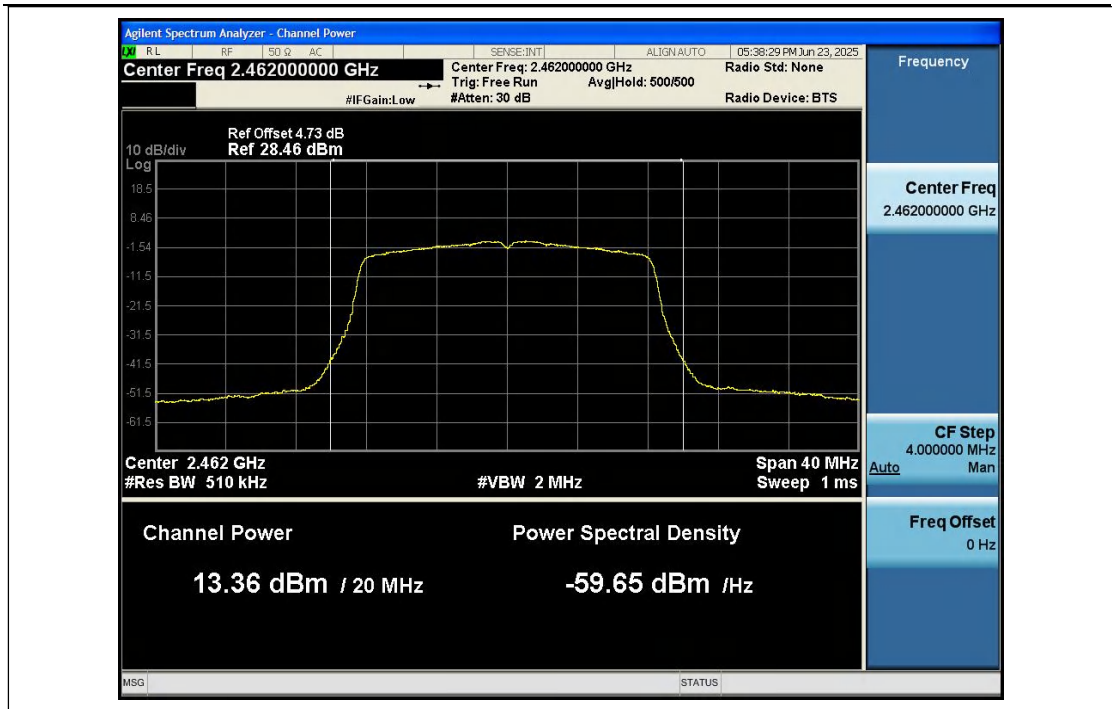


MAX__Output_Power_NVNT_ANT1_802_11g_2437

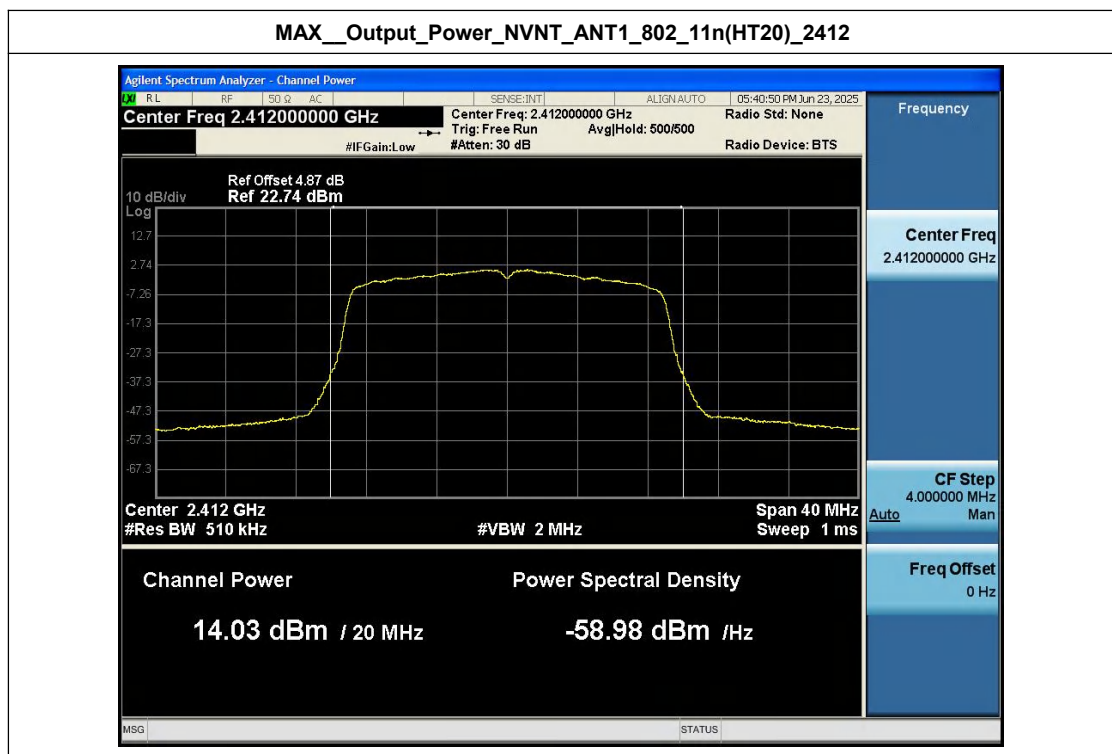


MAX__Output_Power_NVNT_ANT1_802_11g_2462





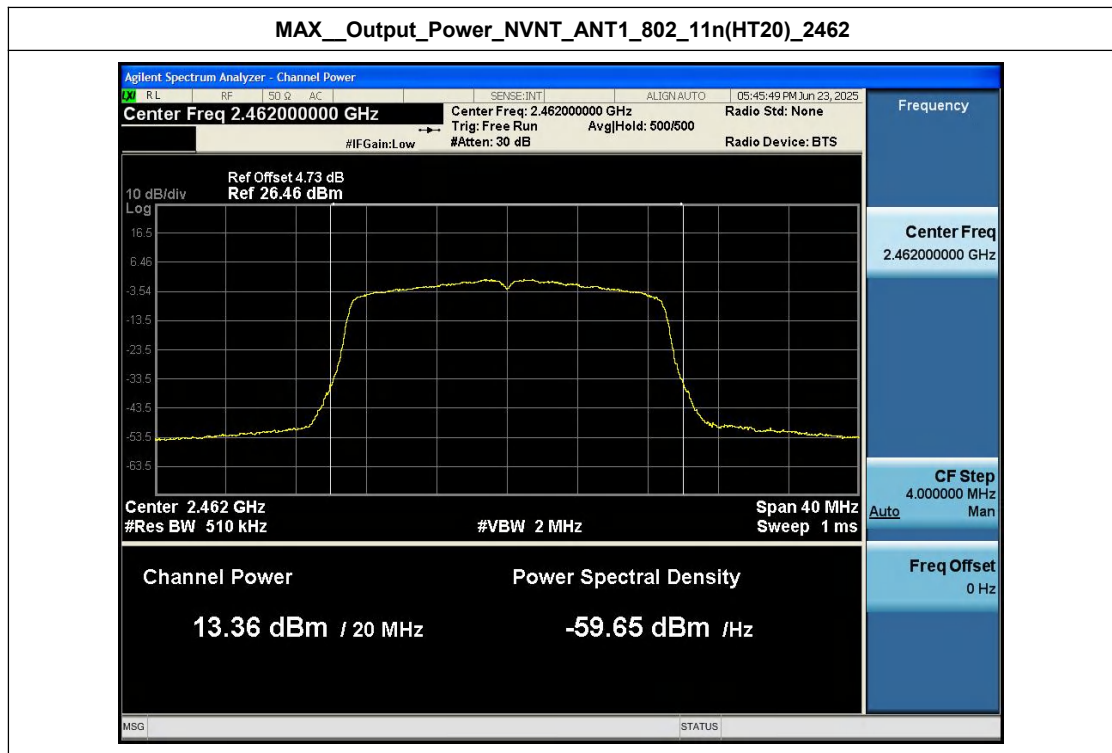
MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2412



MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2437



MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2462

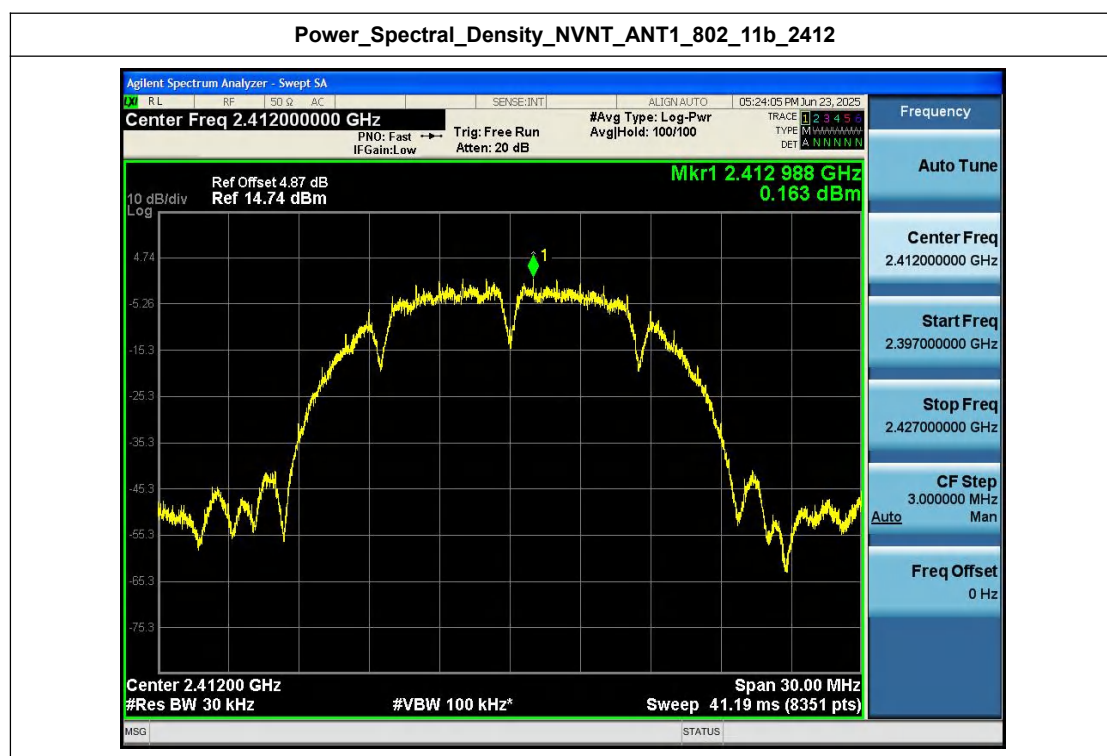


Appendix E: Power Spectral Density

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	0.16	0.00	-10.00	-9.84	8	Pass
NVNT	ANT1	802.11b	2437.00	0.09	0.00	-10.00	-9.91	8	Pass
NVNT	ANT1	802.11b	2462.00	-0.28	0.00	-10.00	-10.28	8	Pass
NVNT	ANT1	802.11g	2412.00	0.44	0.00	-10.00	-9.56	8	Pass
NVNT	ANT1	802.11g	2437.00	-0.08	0.00	-10.00	-10.08	8	Pass
NVNT	ANT1	802.11g	2462.00	-0.24	0.00	-10.00	-10.24	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-0.60	0.00	-10.00	-10.60	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-0.86	0.00	-10.00	-10.86	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-1.20	0.00	-10.00	-11.20	8	Pass

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

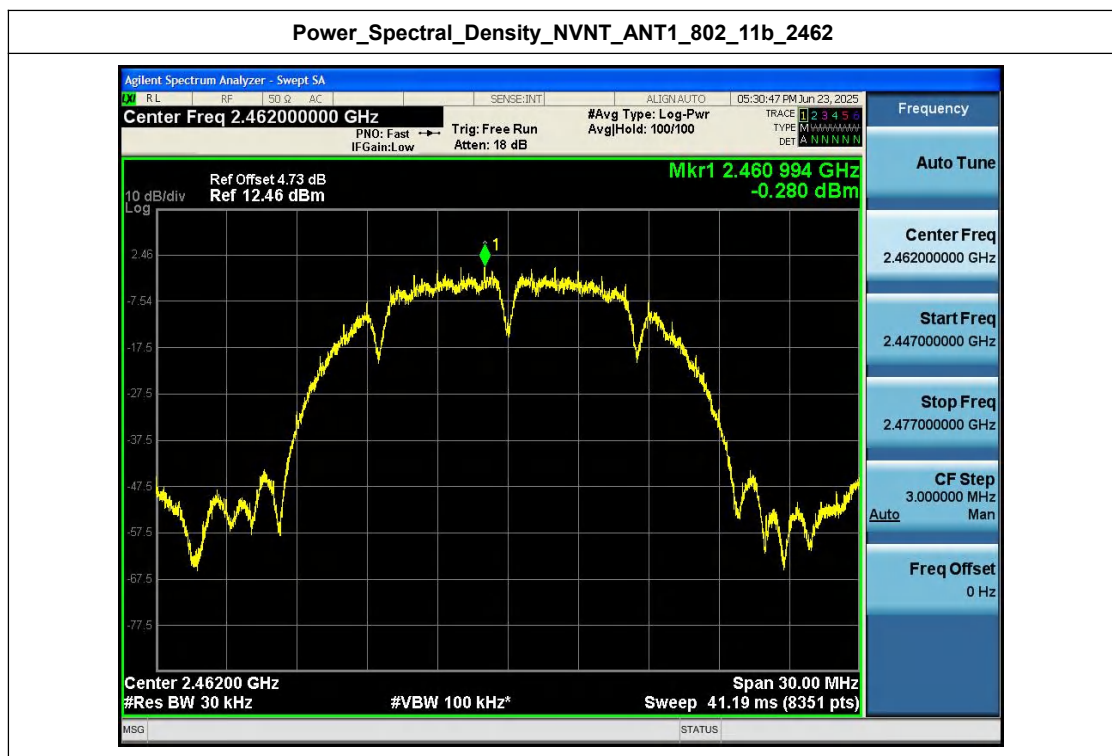
2.PSD(dBm/3kHz)= PSD(dBm/30kHz)- (10*log(30/3)).



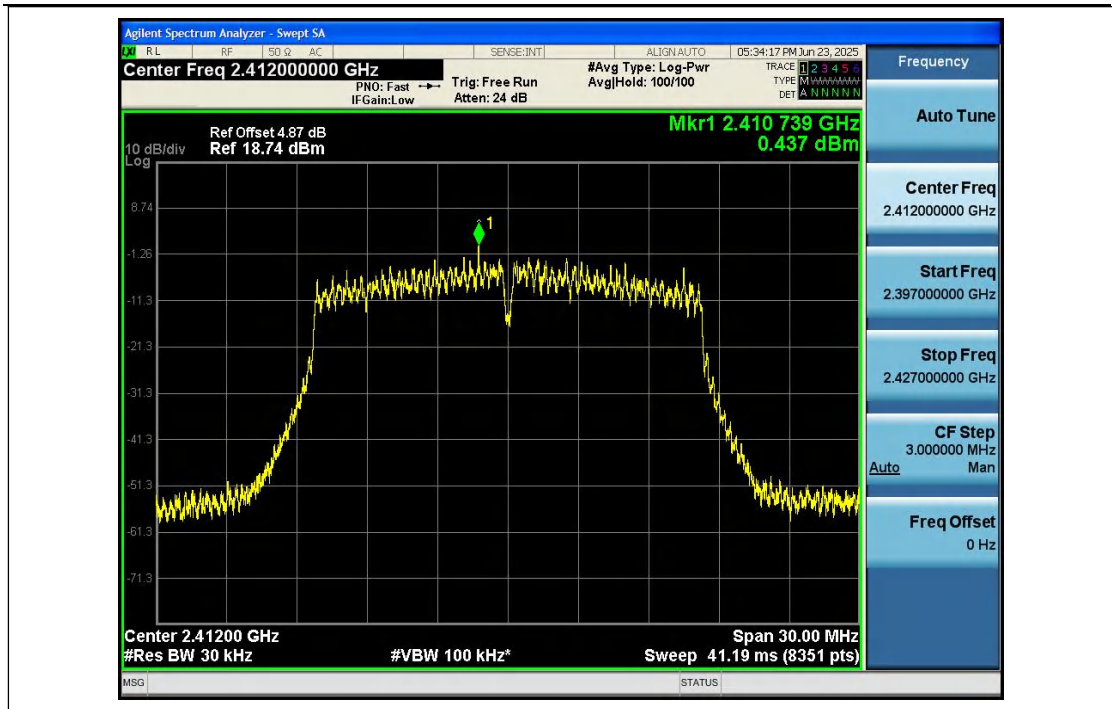
Power_Spectral_Density_NVNT_ANT1_802_11b_2437



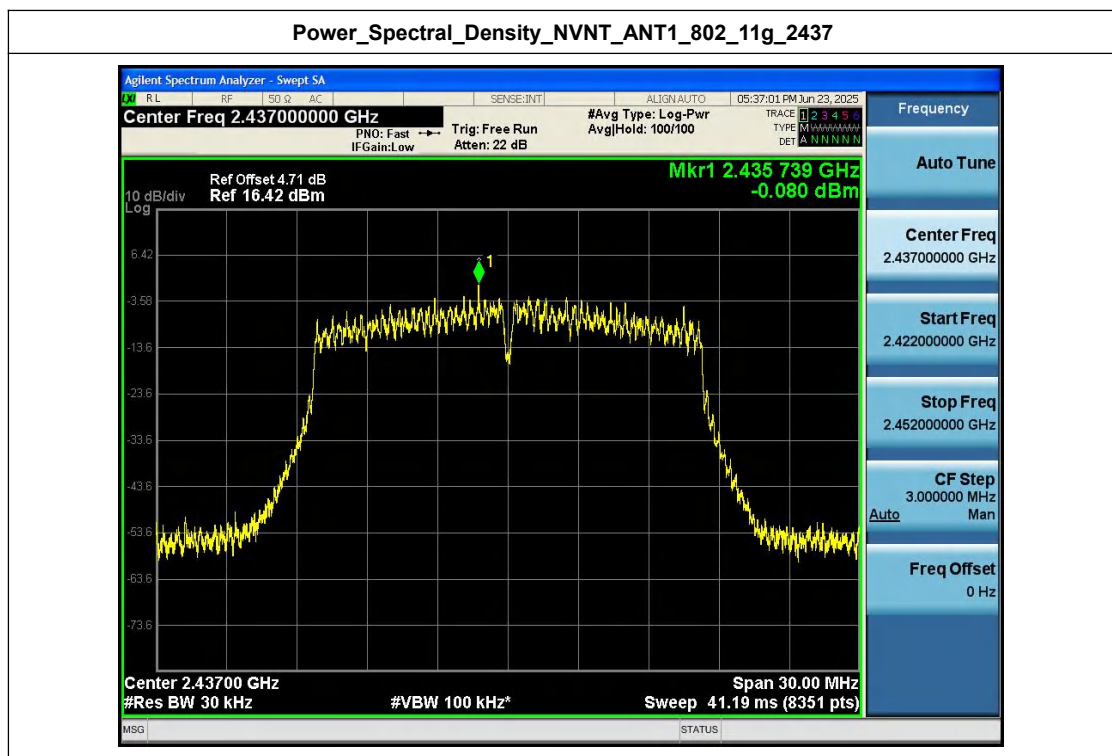
Power_Spectral_Density_NVNT_ANT1_802_11b_2462



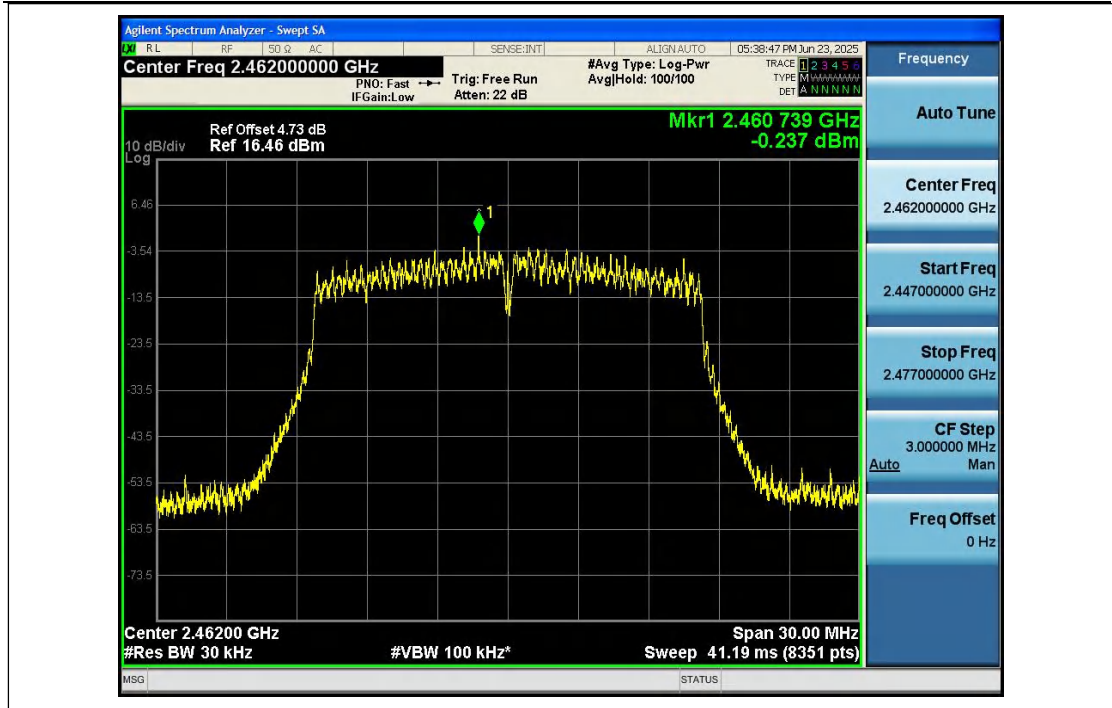
Power_Spectral_Density_NVNT_ANT1_802_11g_2412



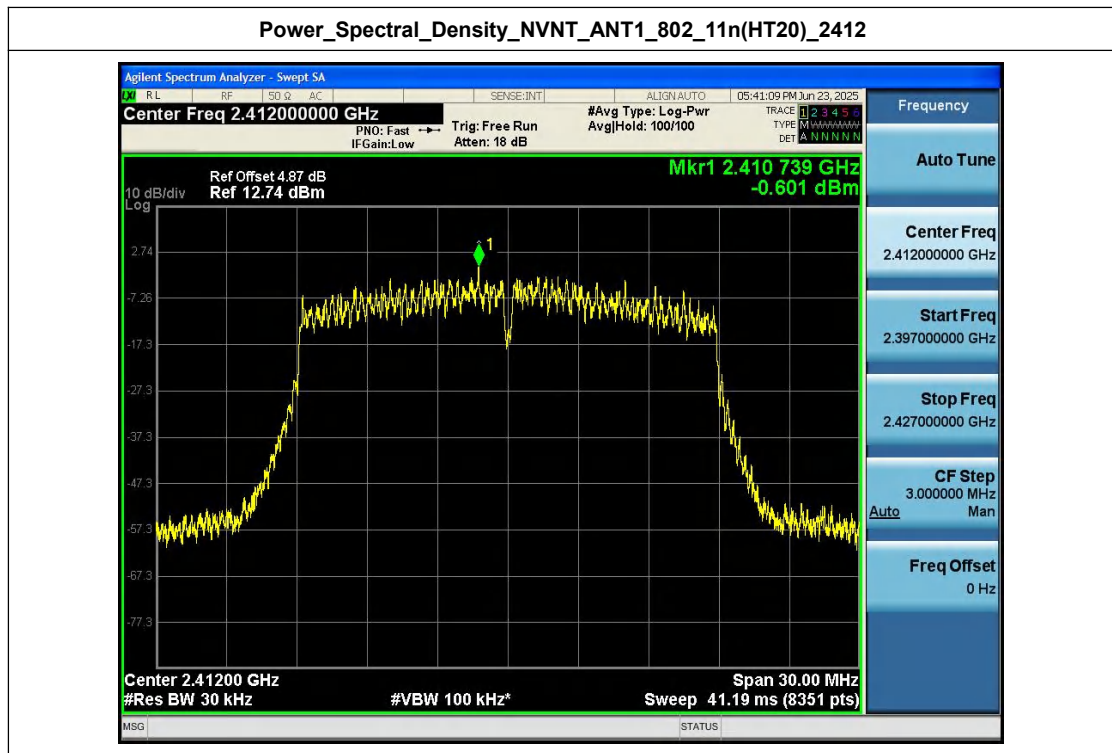
Power_Spectral_Density_NVNT_ANT1_802_11g_2437



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

