

Appendix Test Data

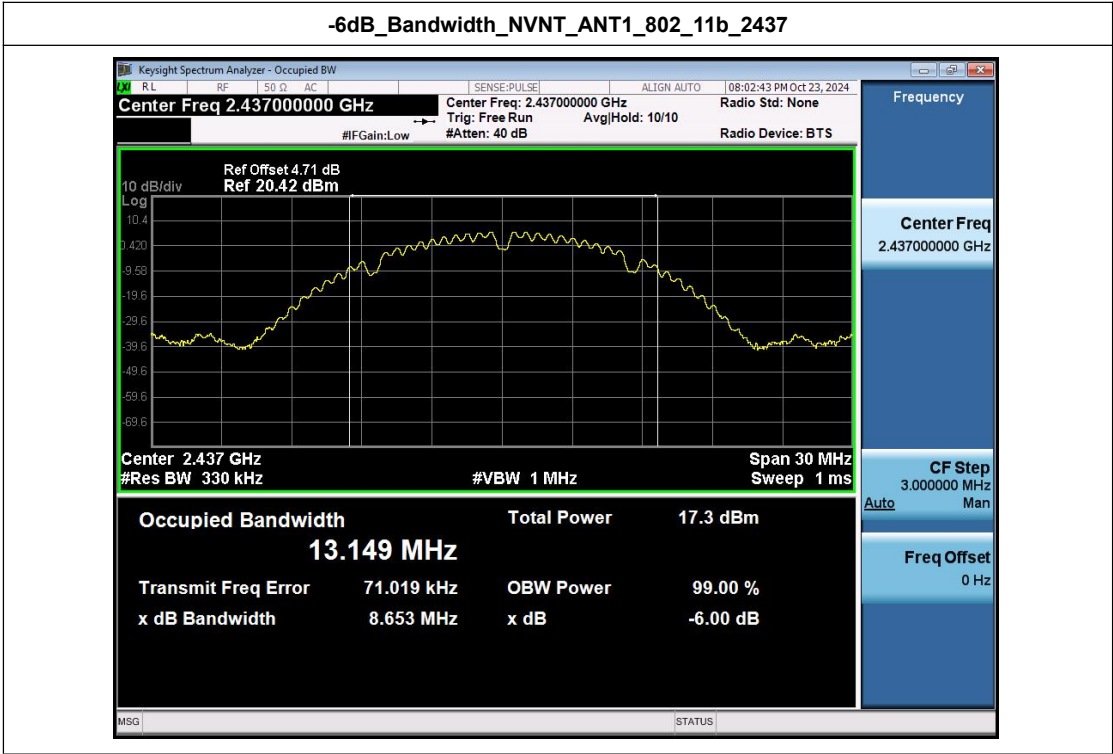
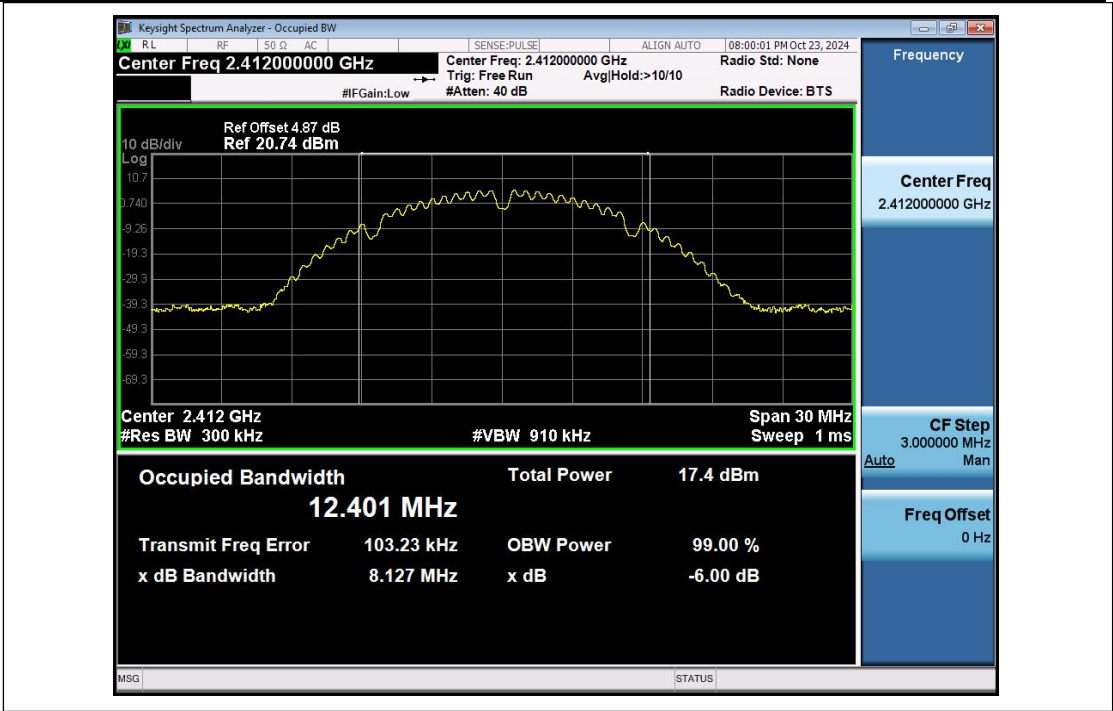
Report No.:	1819C40061412501	Test Sample No.:	1-2-2
Start Test Date:	2024.10.23	Finish Test Date:	2025.2.21
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	22.8℃	Relative Humidity:	55%
Pressure:	101kPa		

Appendix A: -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	8.13	500	Pass
NVNT	ANT1	802.11b	2437.00	8.65	500	Pass
NVNT	ANT1	802.11b	2462.00	8.14	500	Pass
NVNT	ANT1	802.11g	2412.00	16.02	500	Pass
NVNT	ANT1	802.11g	2437.00	15.79	500	Pass
NVNT	ANT1	802.11g	2462.00	16.01	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.06	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	16.78	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.01	500	Pass

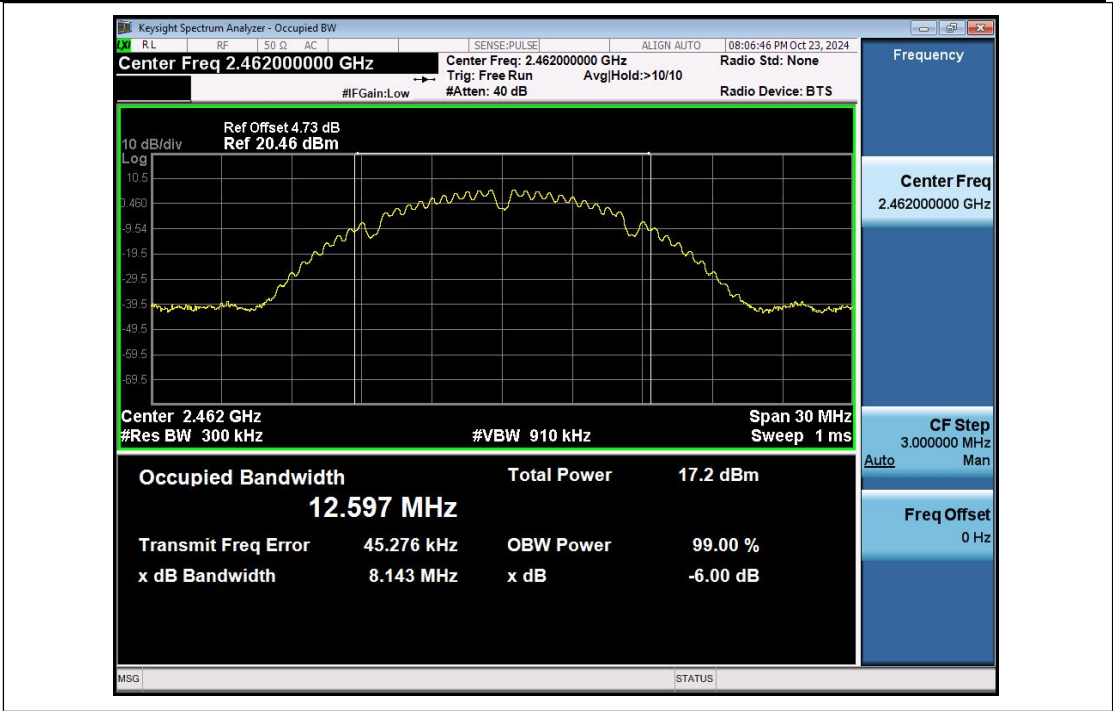
-6dB_Bandwidth_NVNT_ANT1_802_11b_2412



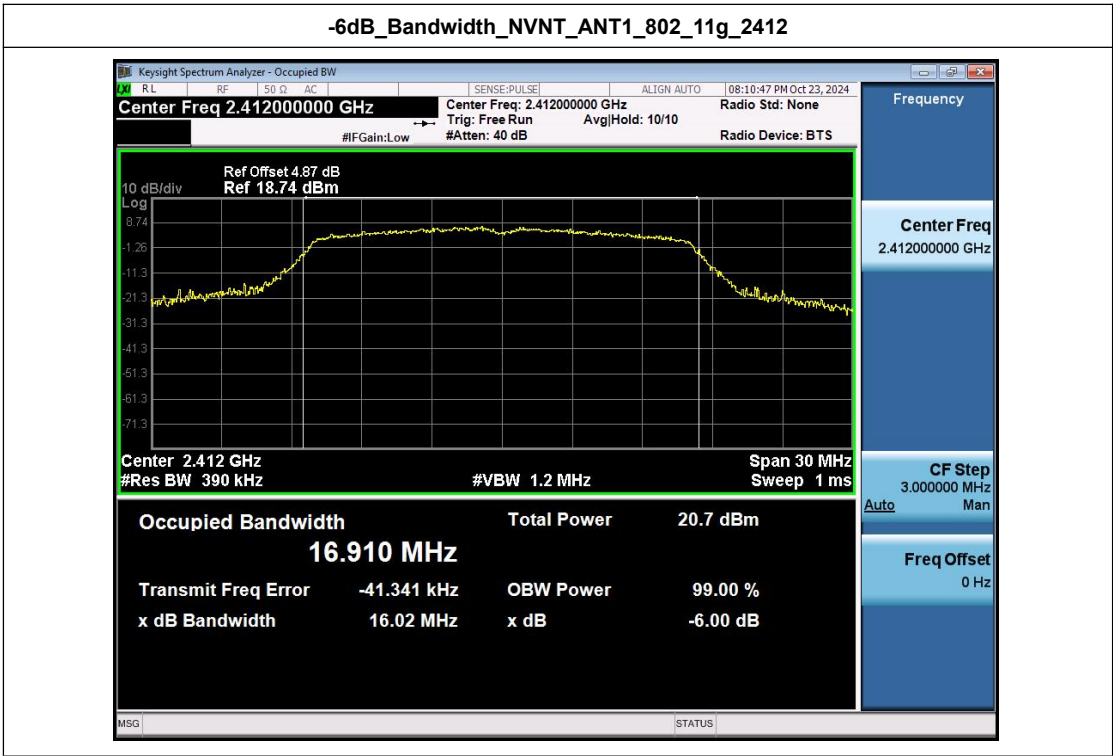


-6dB_Bandwidth_NVNT_ANT1_802_11b_2462



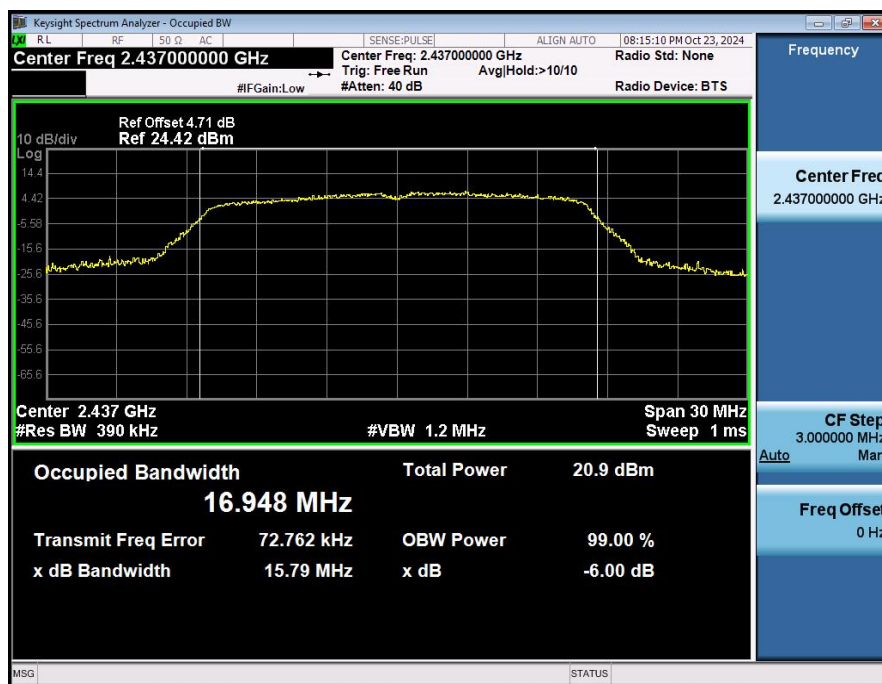


-6dB_Bandwidth_NVNT_ANT1_802_11g_2412

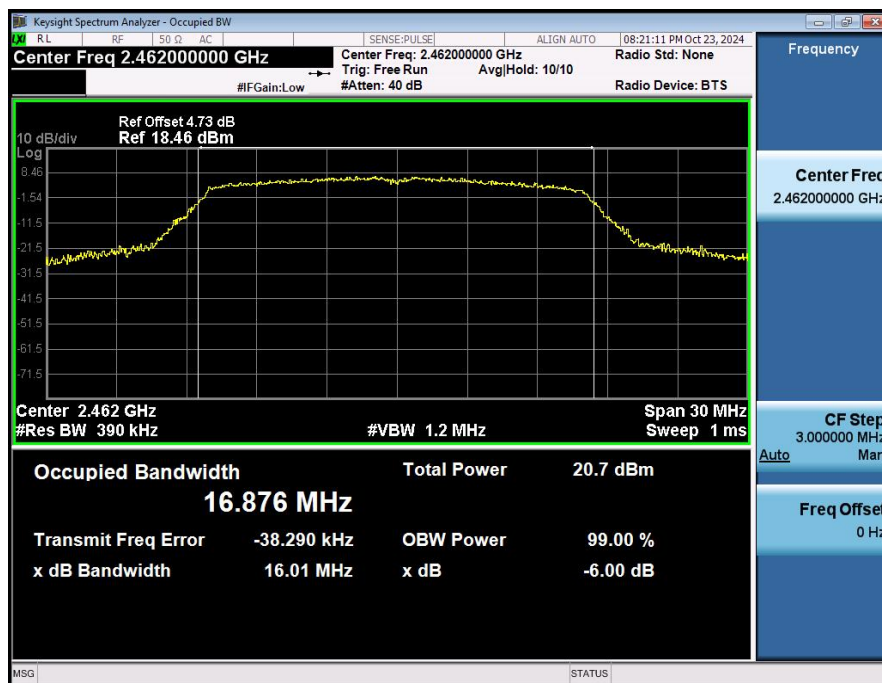


-6dB_Bandwidth_NVNT_ANT1_802_11g_2437



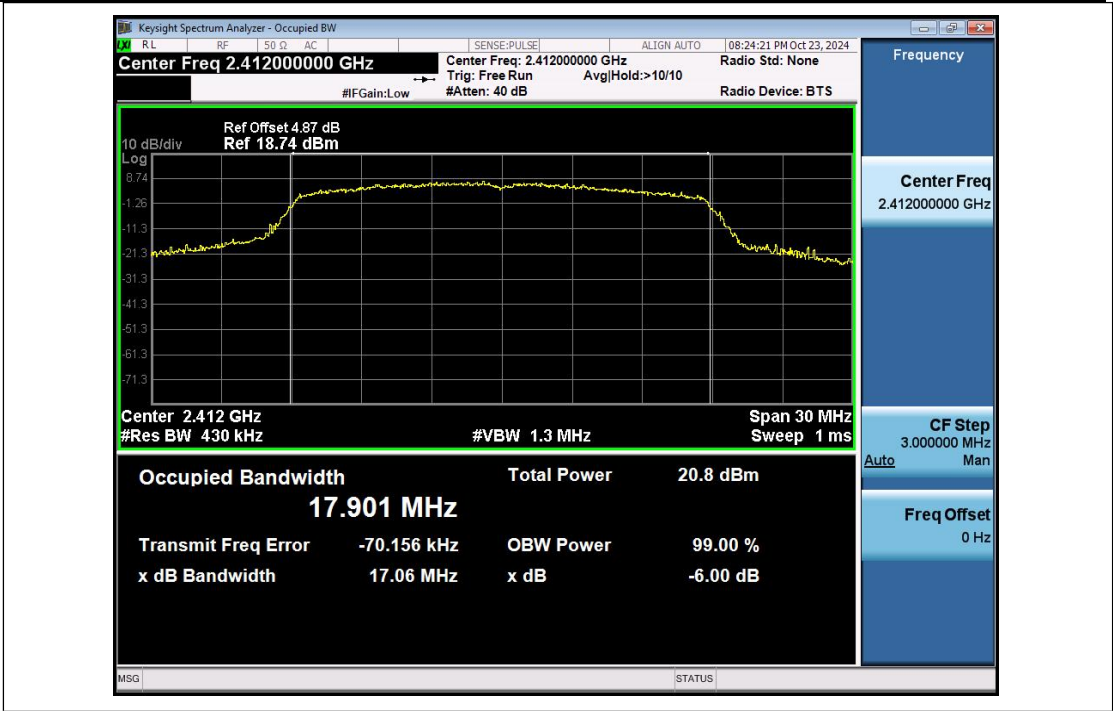


-6dB Bandwidth_NVNT_ANT1_802_11g_2462

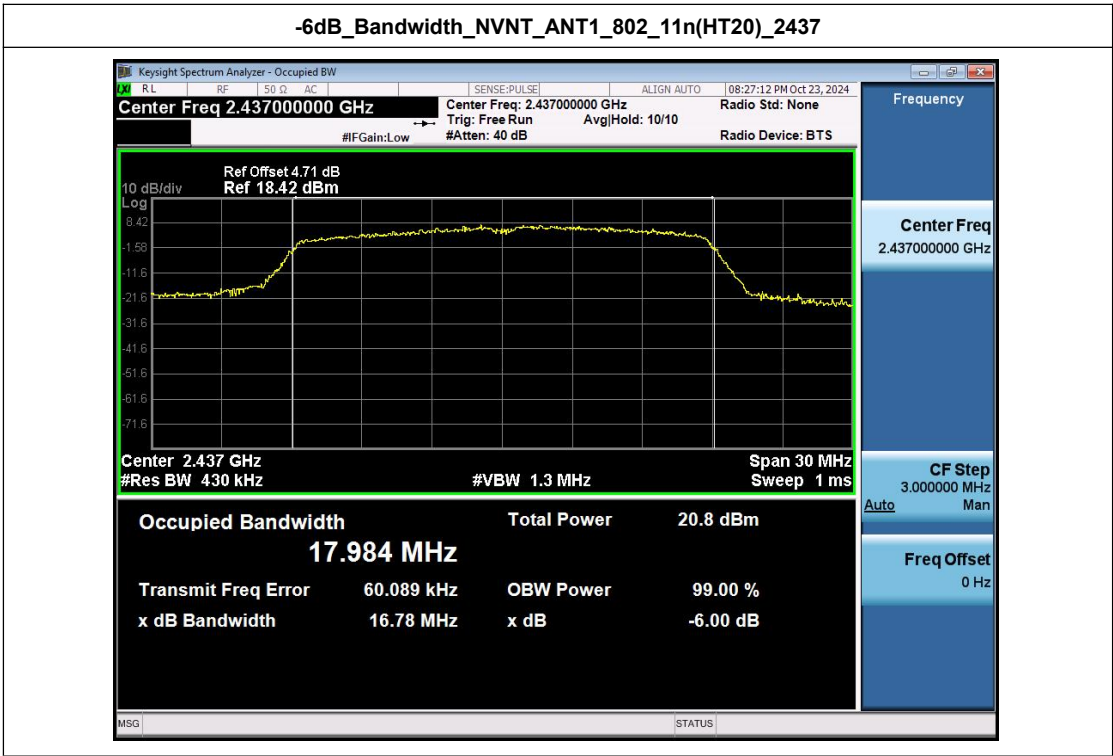


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



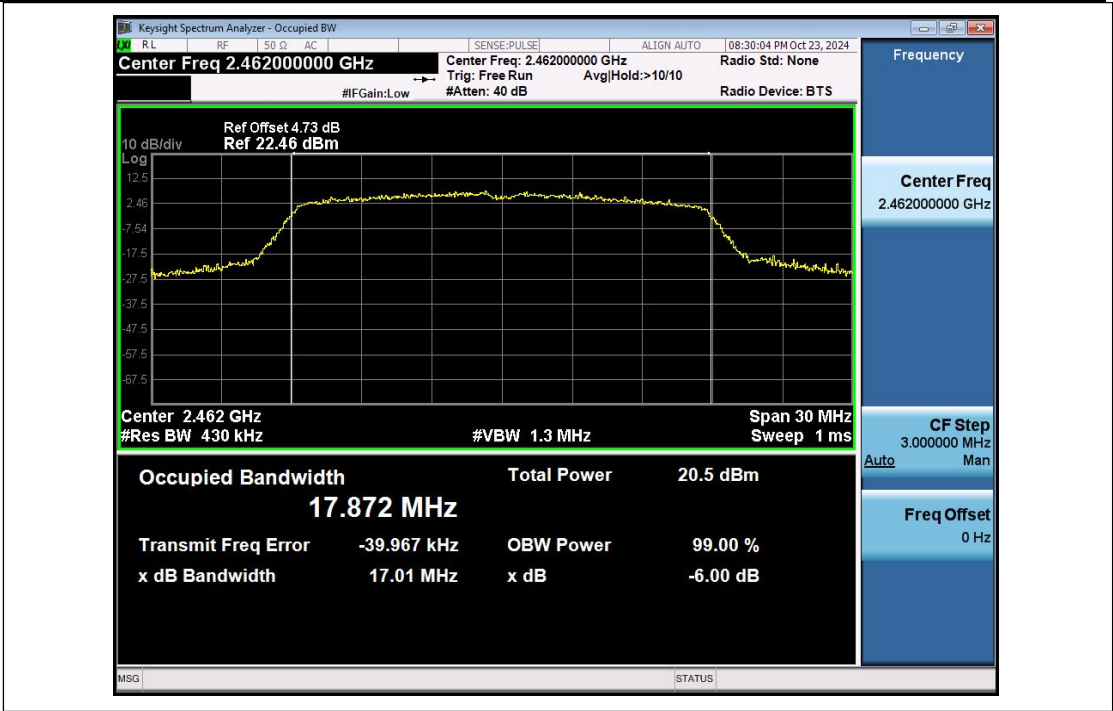


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462





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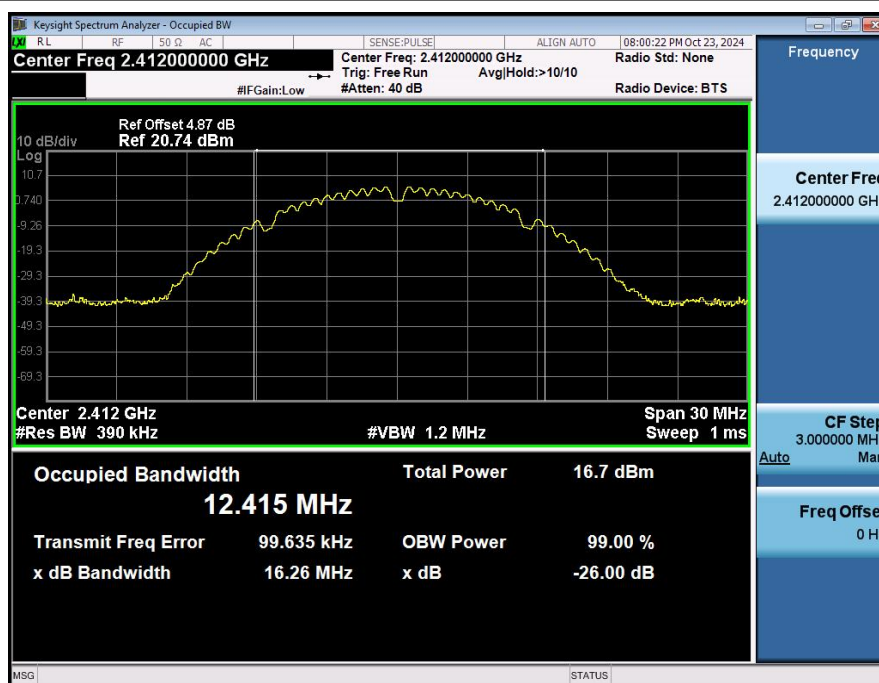
Hotline
400-003-0500
www.anbotek.com



Appendix B: 99% Occupied Bandwidth

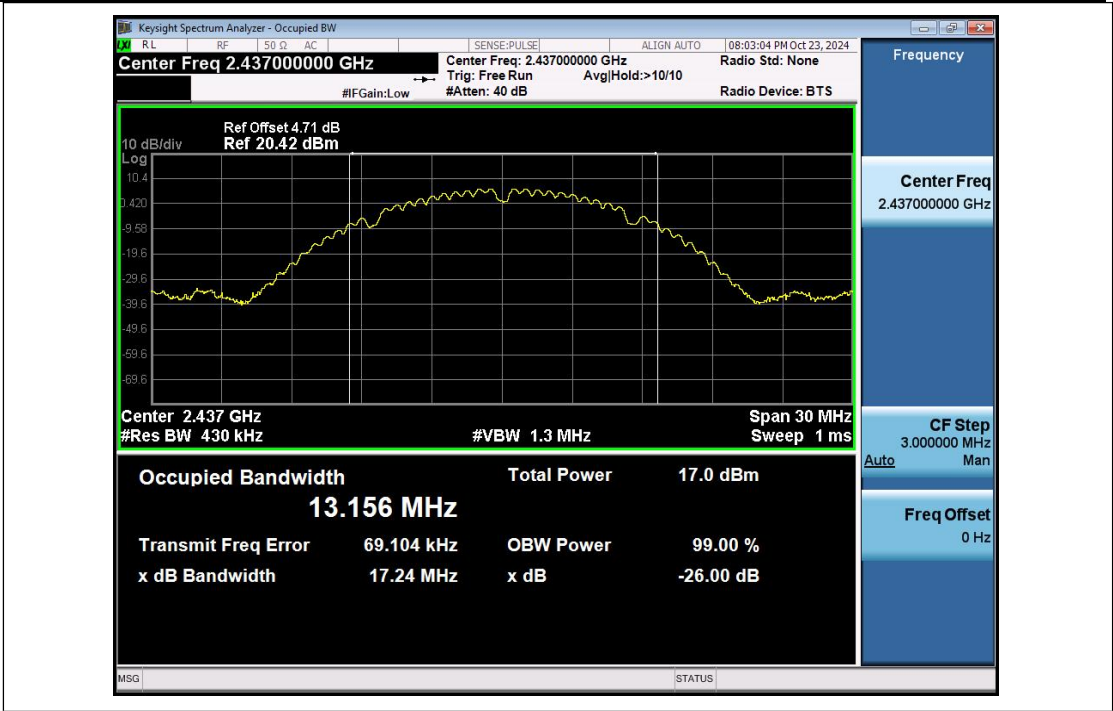
Condition	Antenna	Modulation	Frequency (MHz)	99%BW(MHz)
NVNT	ANT1	802.11b	2412.00	12.415
NVNT	ANT1	802.11b	2437.00	13.156
NVNT	ANT1	802.11b	2462.00	12.598
NVNT	ANT1	802.11g	2412.00	17.177
NVNT	ANT1	802.11g	2437.00	17.245
NVNT	ANT1	802.11g	2462.00	17.051
NVNT	ANT1	802.11n(HT20)	2412.00	17.986
NVNT	ANT1	802.11n(HT20)	2437.00	18.130
NVNT	ANT1	802.11n(HT20)	2462.00	17.970

99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2412

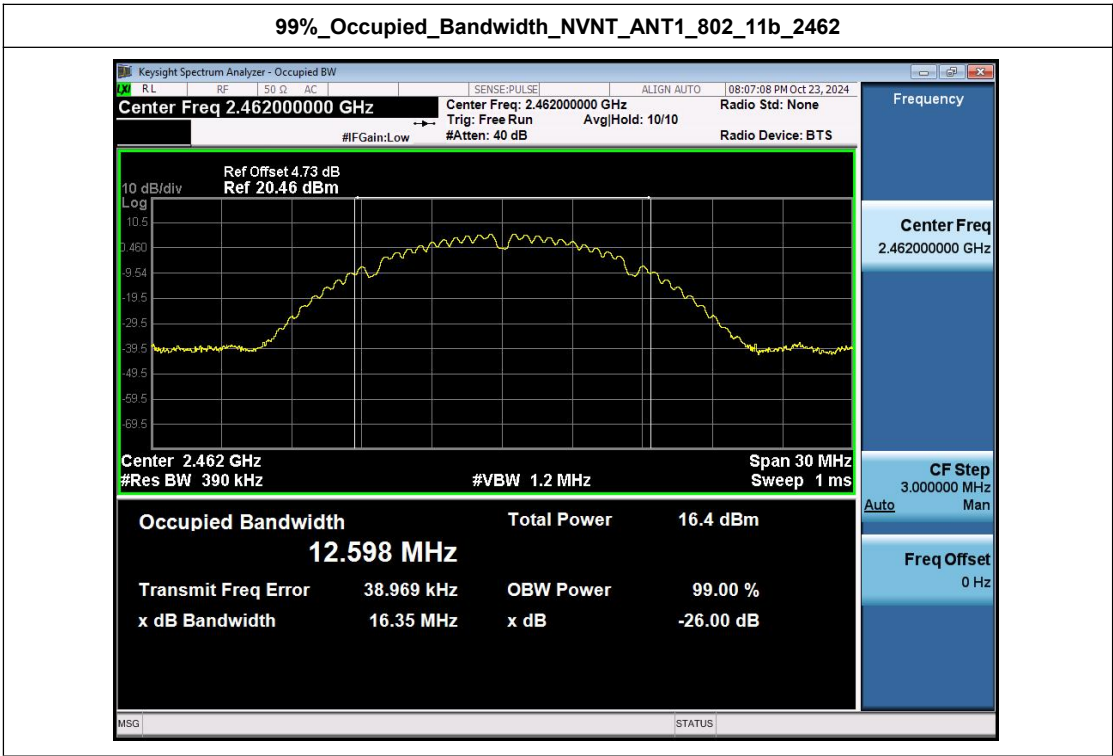


99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2437



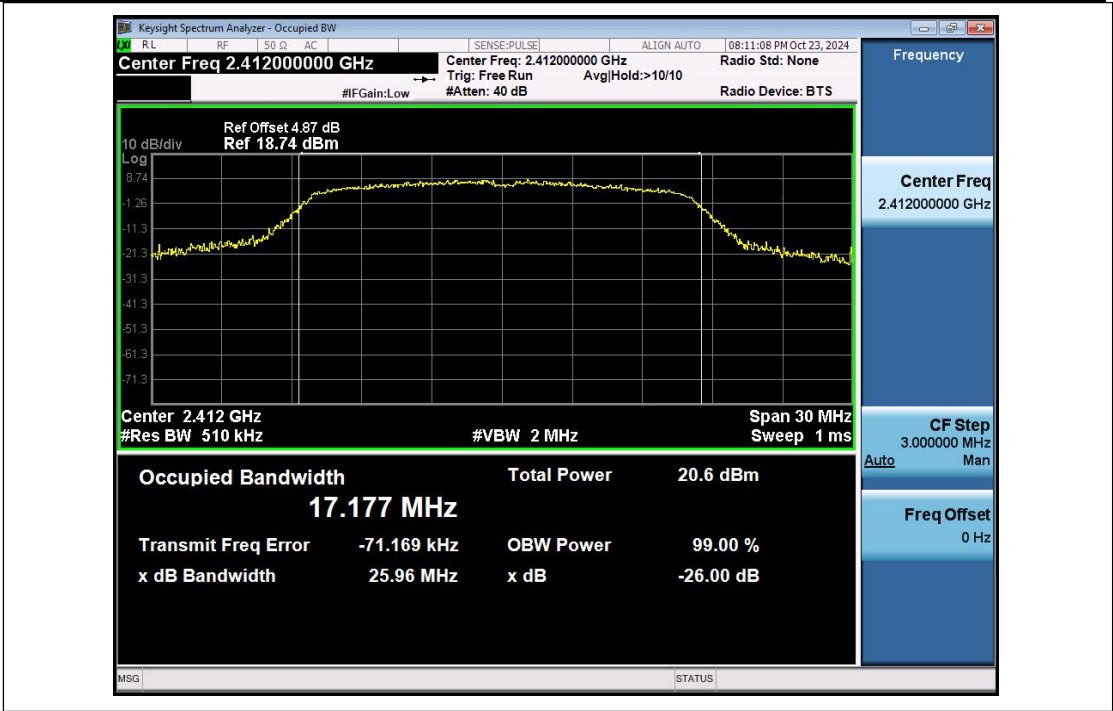


99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2462

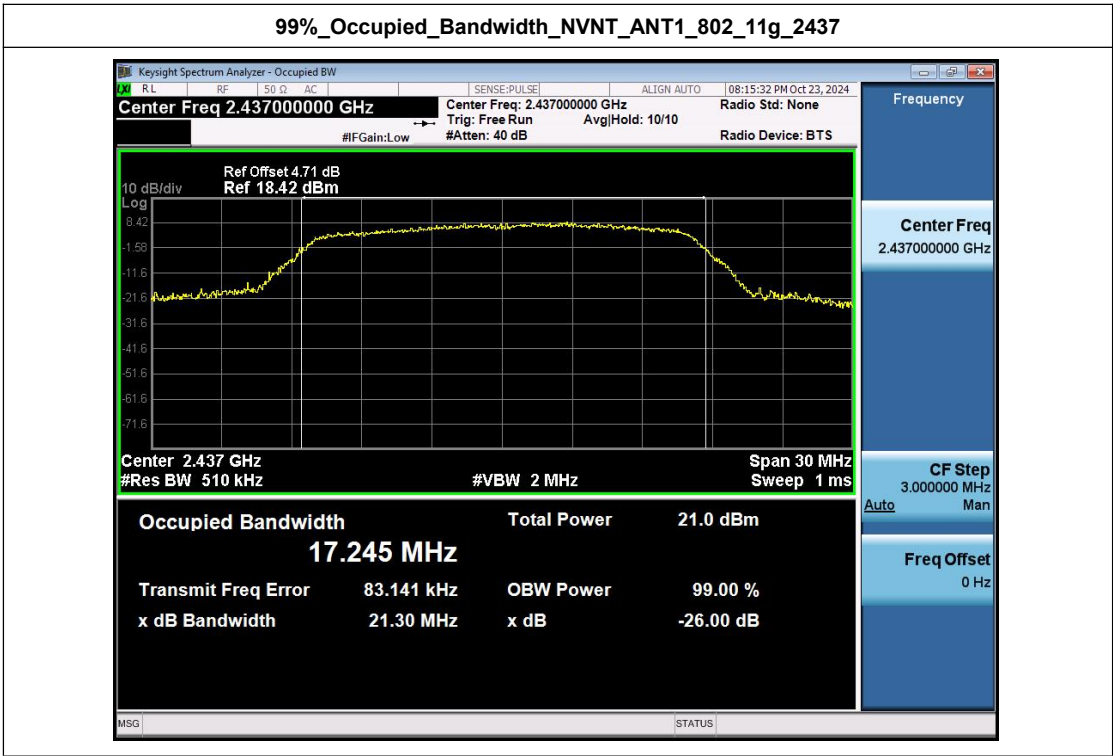


99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2412



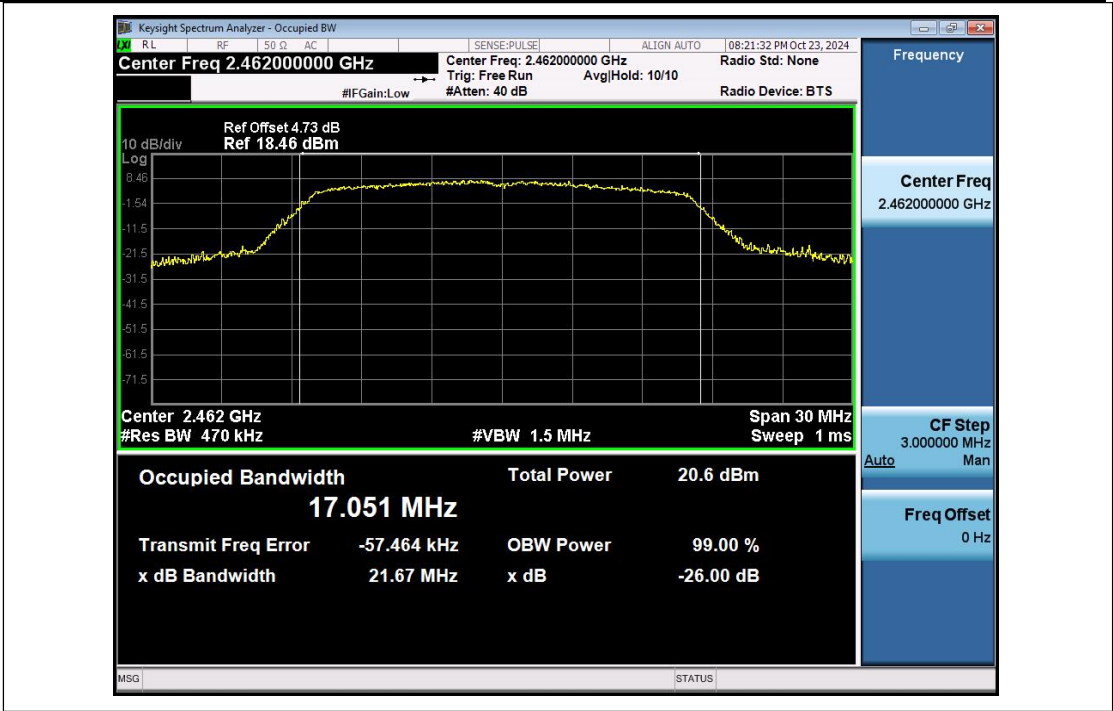


99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2437

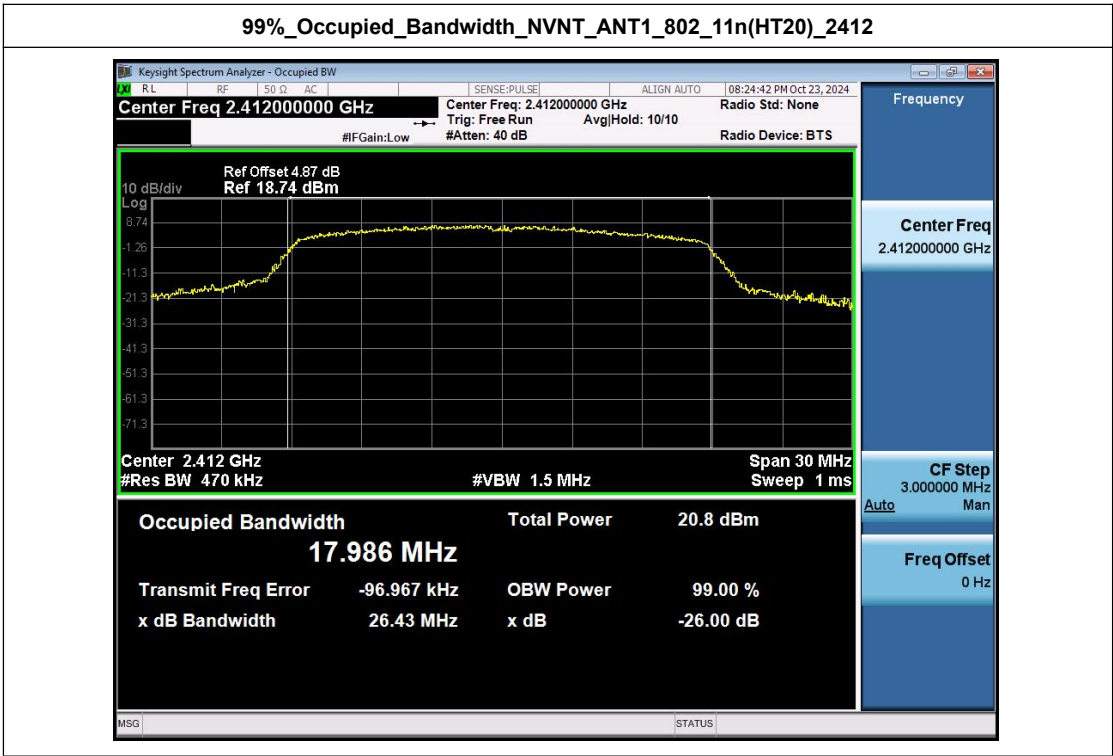


99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2462



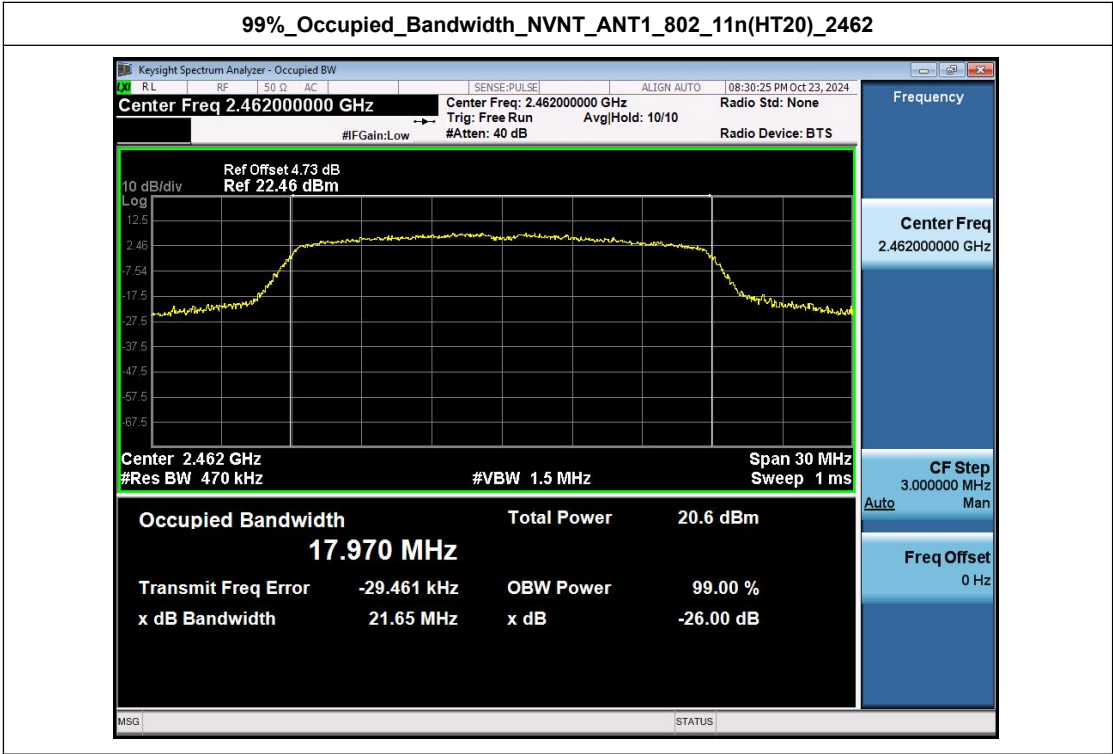
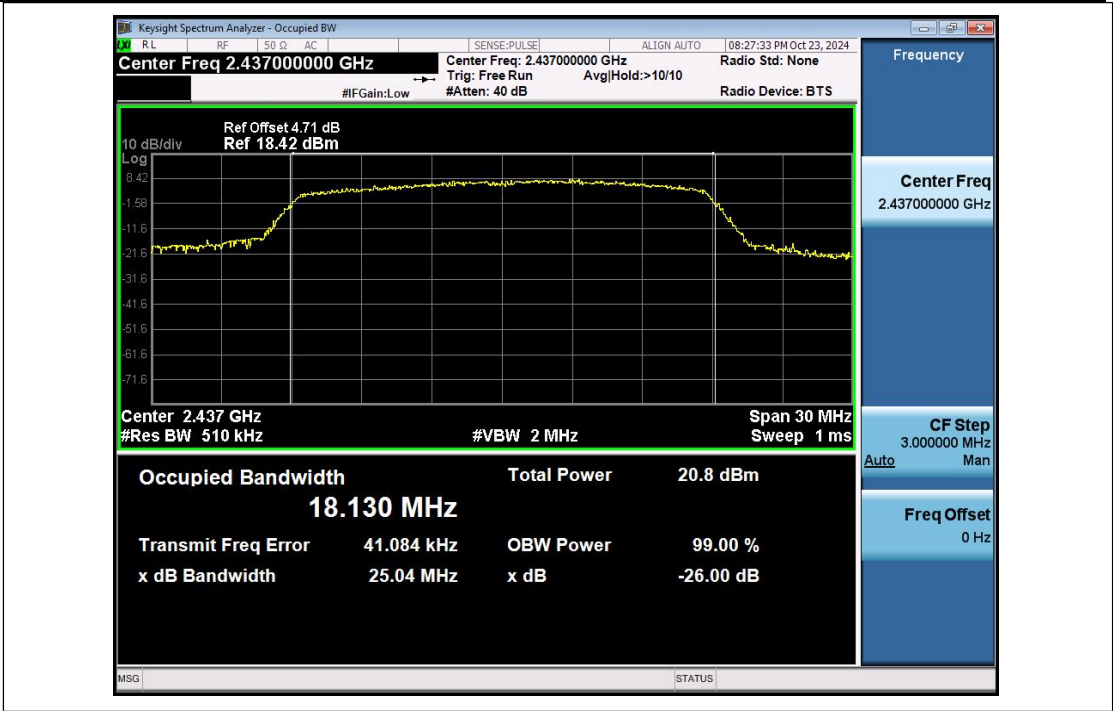


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437

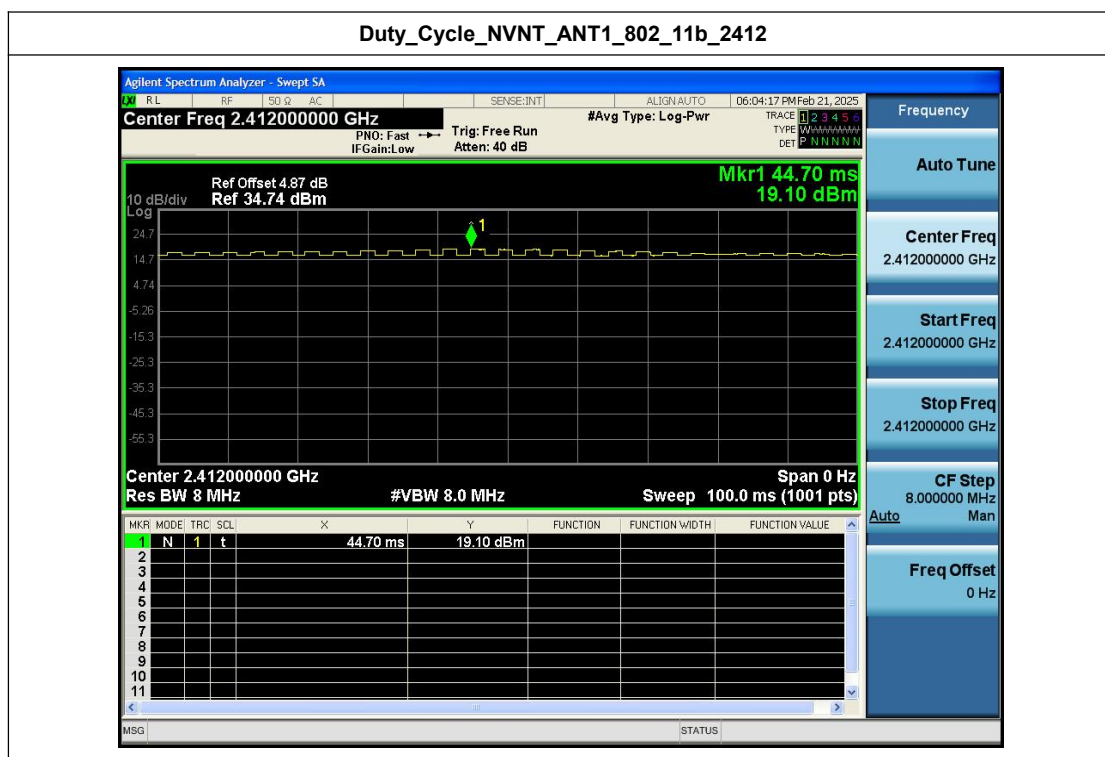




Appendix C: Duty Cycle

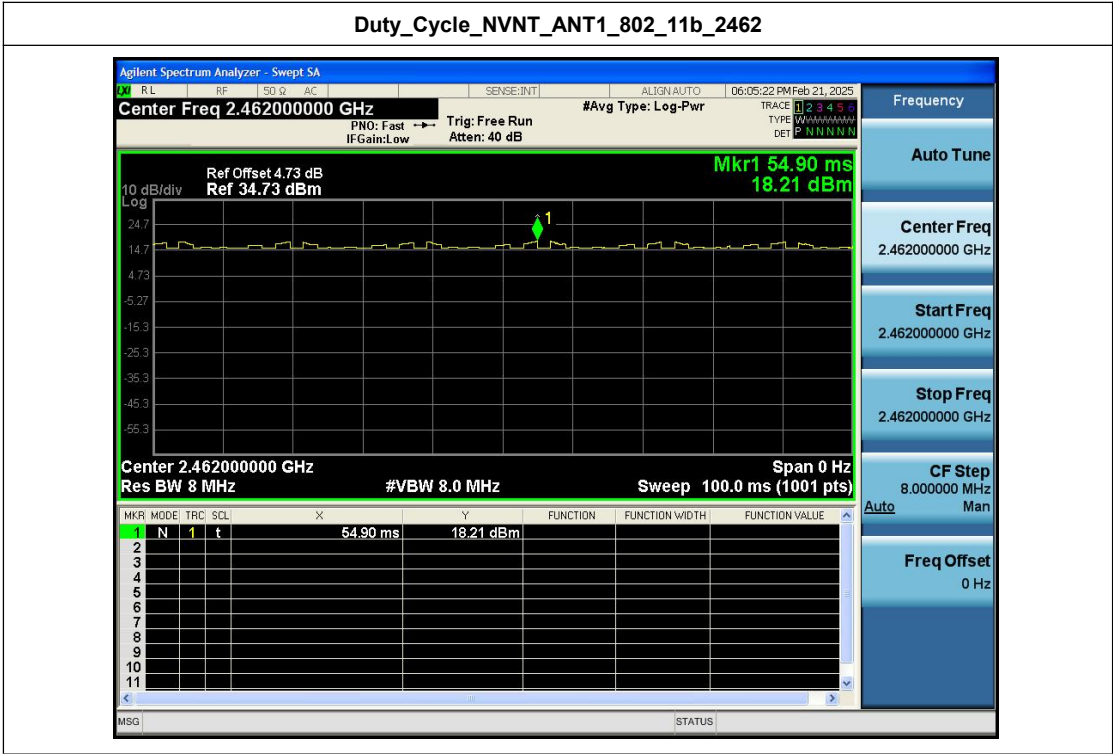
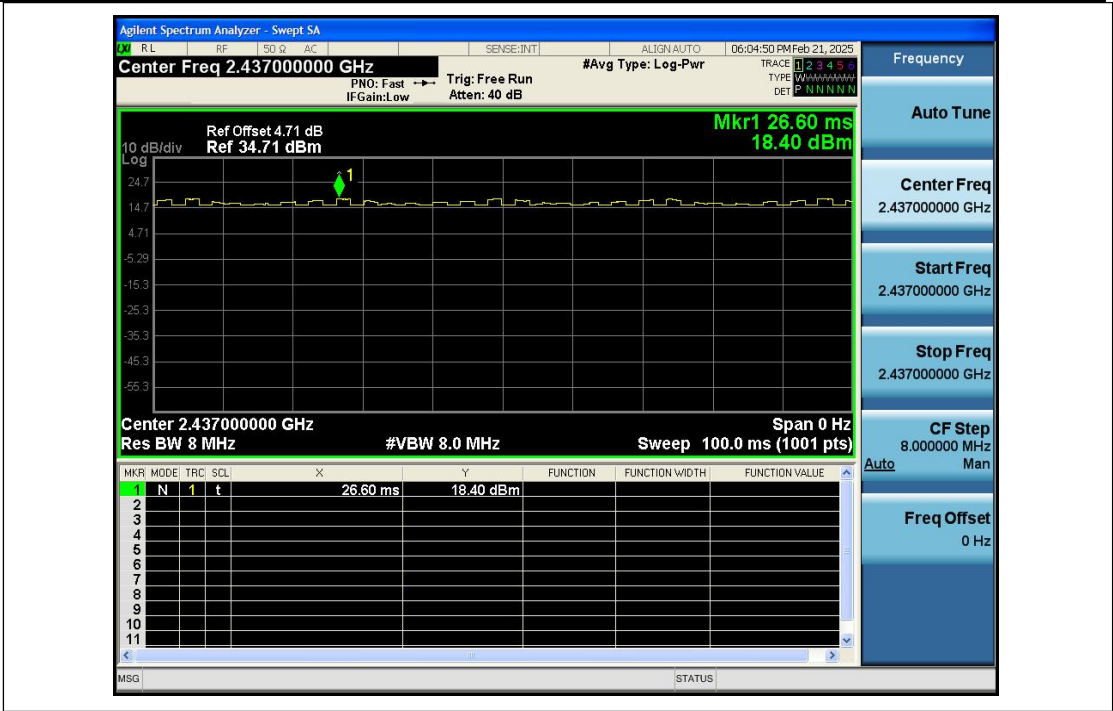
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	100	0.00
NVNT	ANT1	802.11b	2437.00	100	0.00
NVNT	ANT1	802.11b	2462.00	100	0.00
NVNT	ANT1	802.11g	2412.00	100	0.00
NVNT	ANT1	802.11g	2437.00	100	0.00
NVNT	ANT1	802.11g	2462.00	100	0.00
NVNT	ANT1	802.11n(HT20)	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



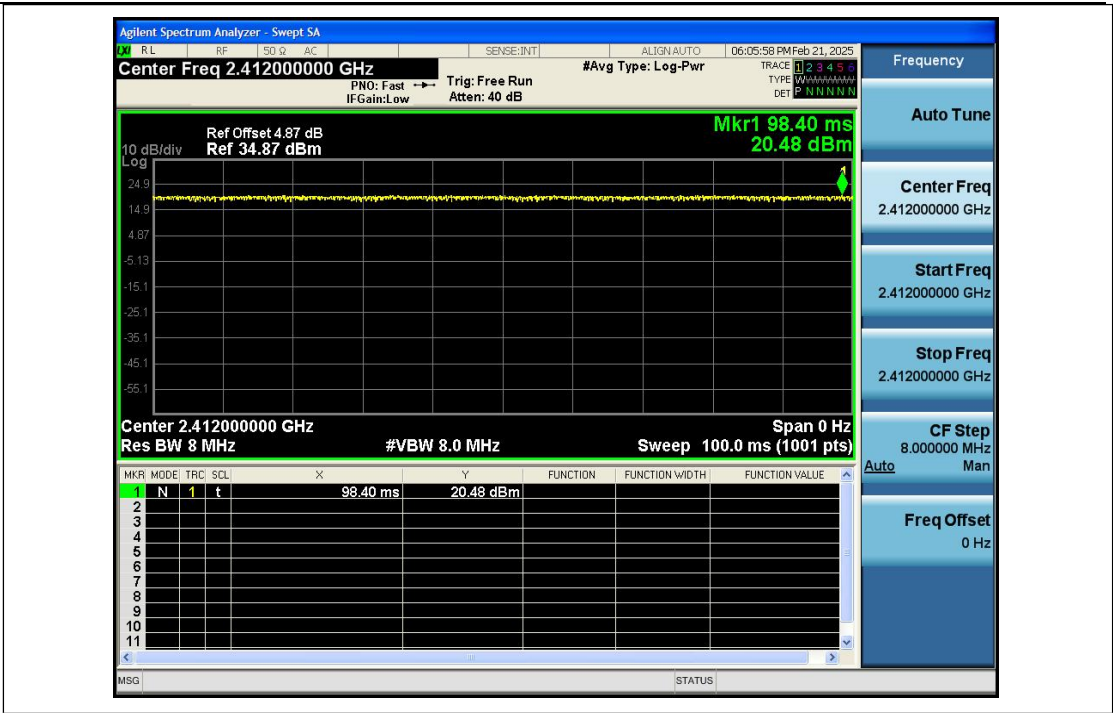
Duty_Cycle_NVNT_ANT1_802_11b_2437



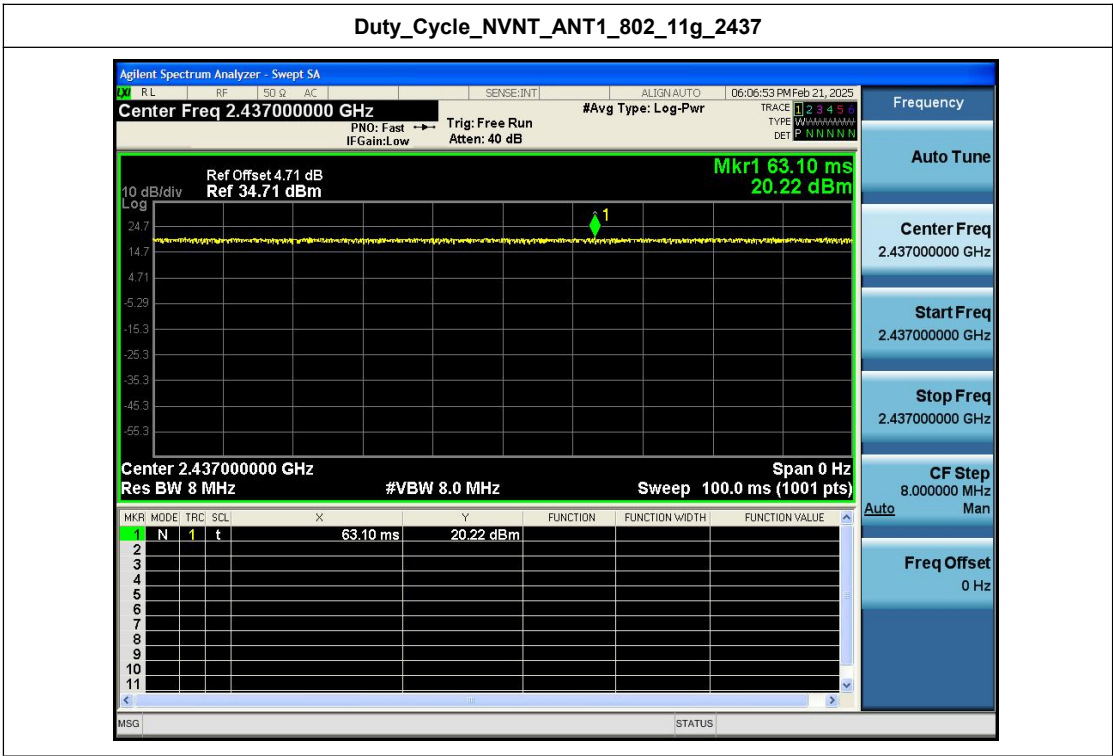


Duty_Cycle_NVNT_ANT1_802_11g_2412



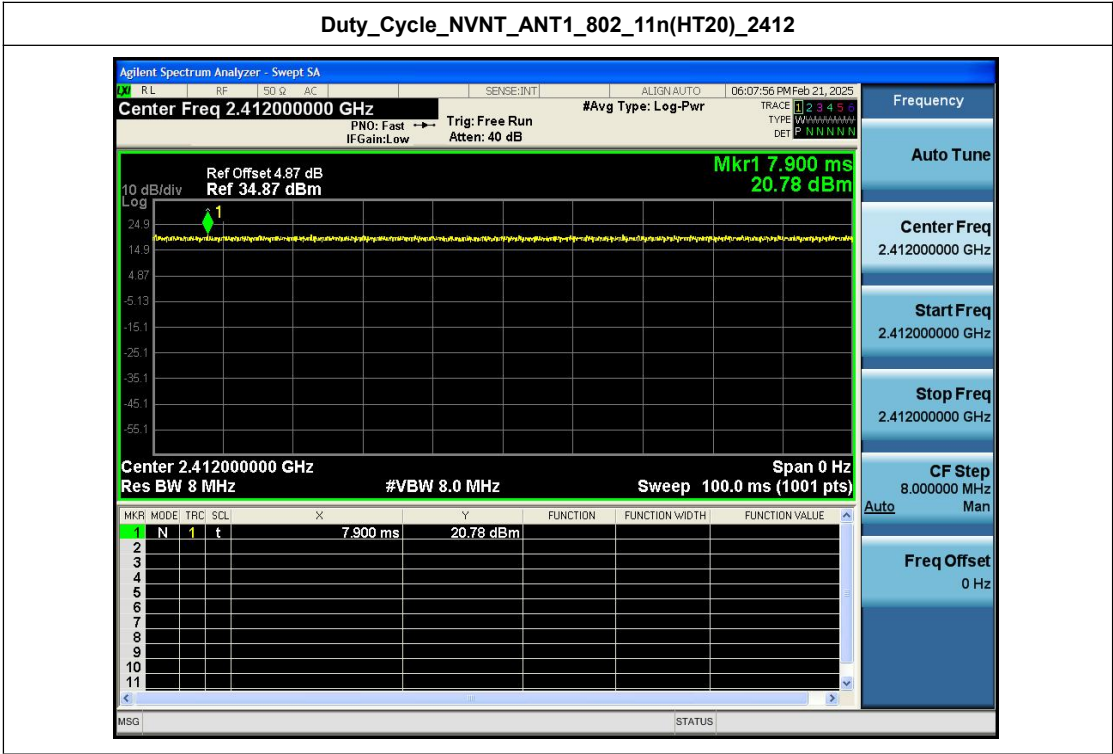
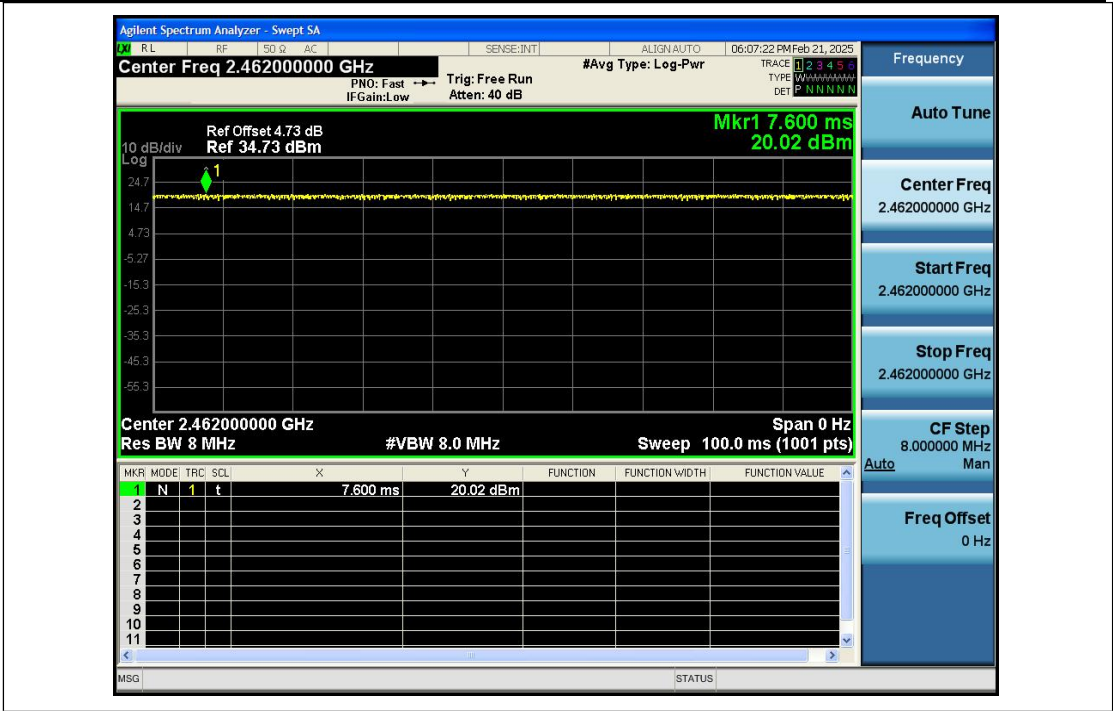


Duty_Cycle_NVNT_ANT1_802_11g_2437



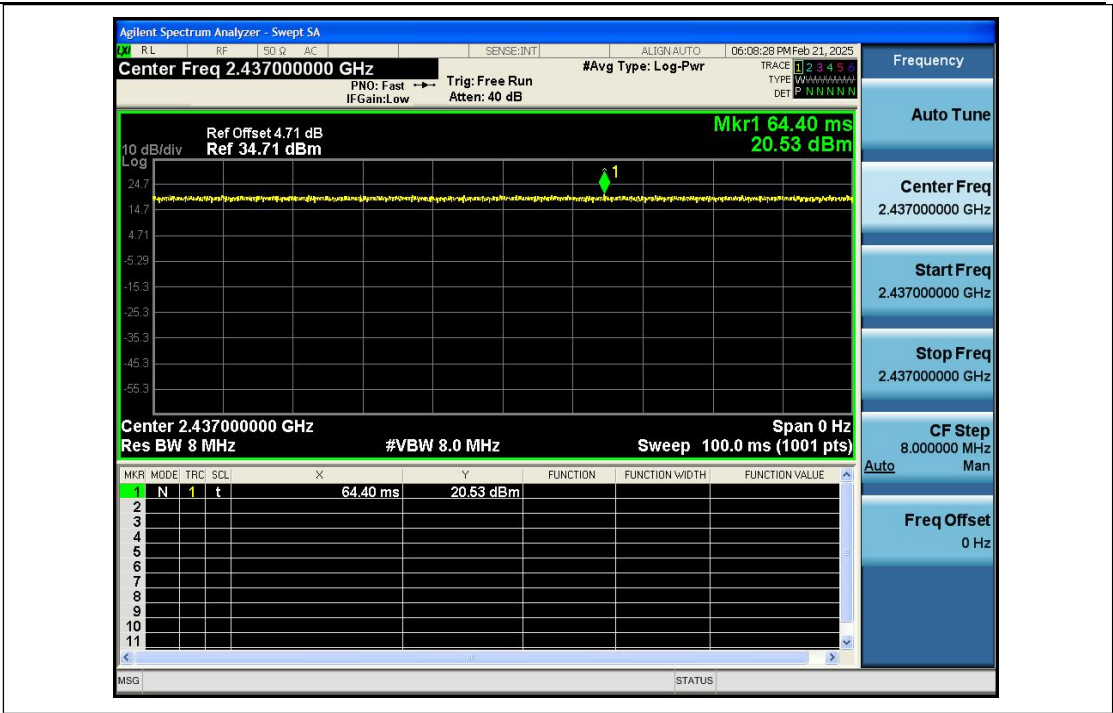
Duty_Cycle_NVNT_ANT1_802_11g_2462



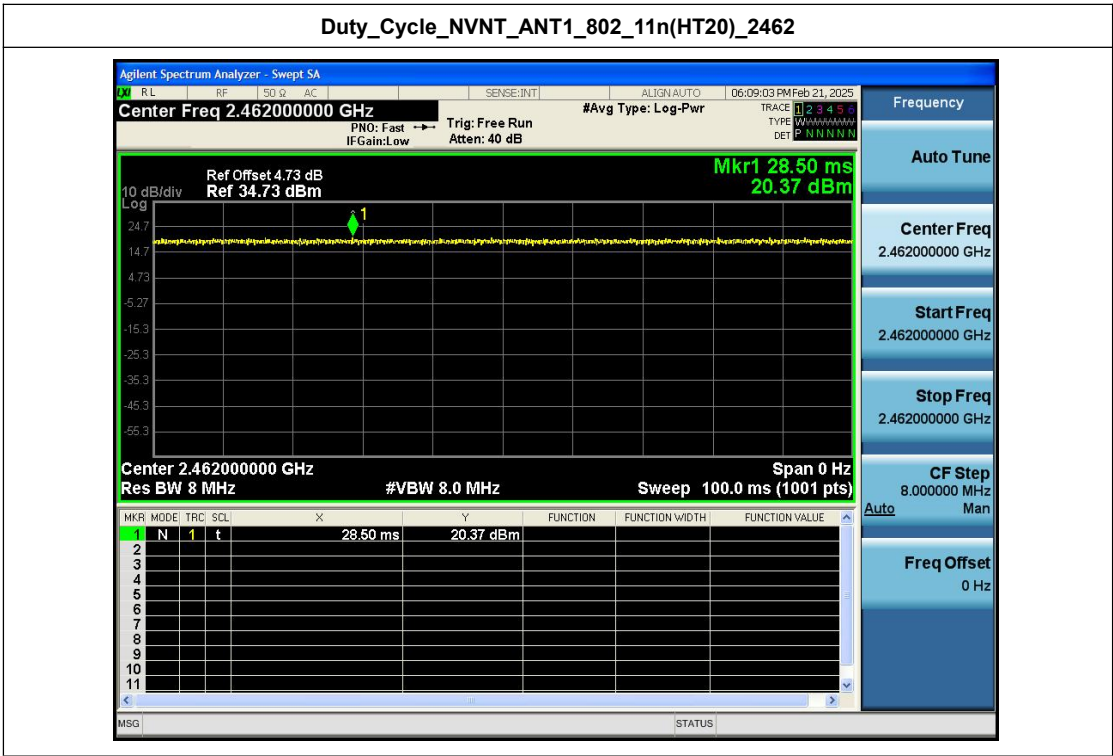


Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437





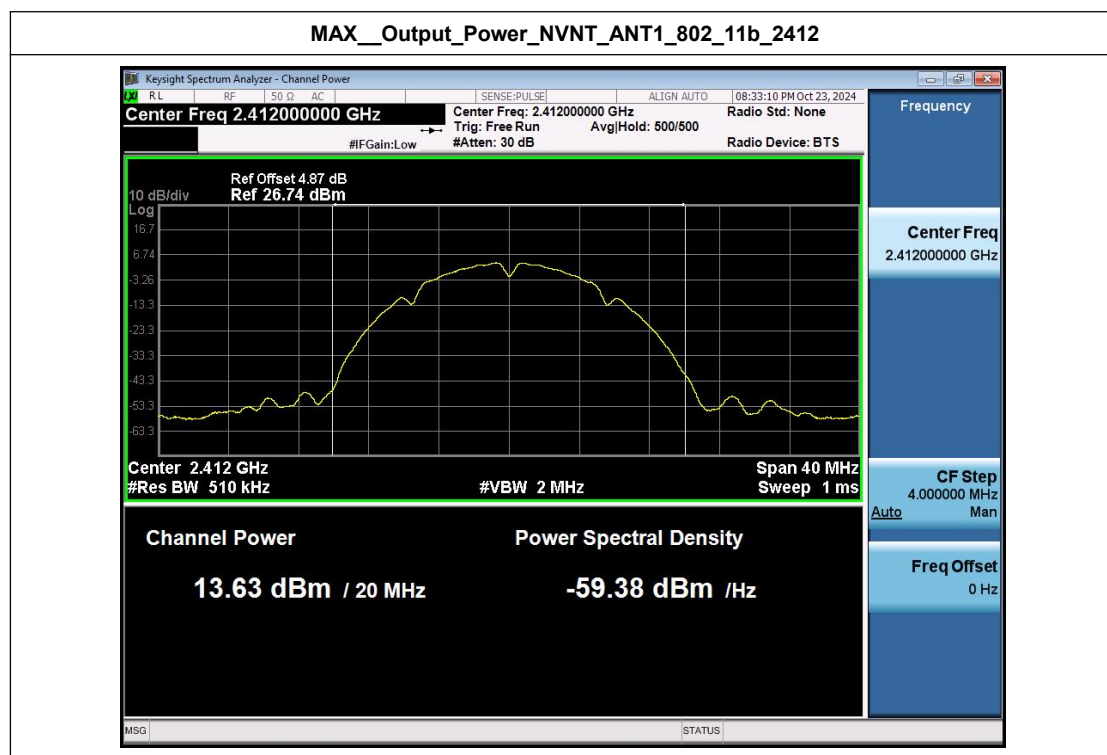
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462



Appendix D: MAX. Output Power

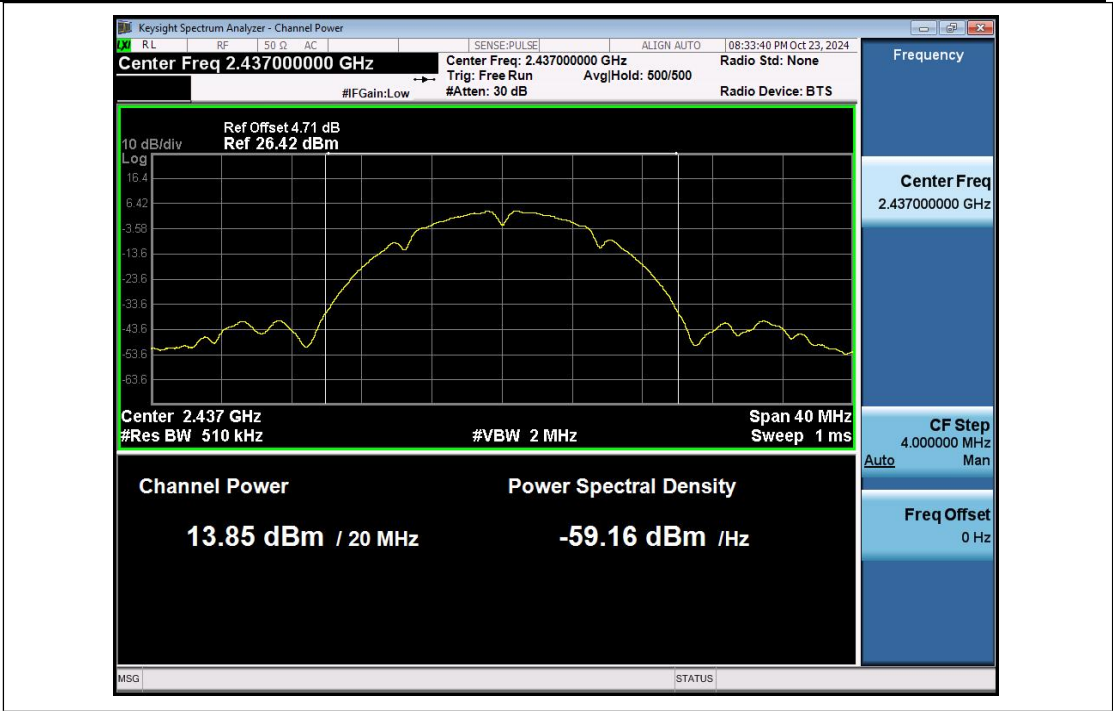
Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	RMS	13.63	0.00	13.63	30	Pass
NVNT	ANT1	802.11b	2437.00	RMS	13.85	0.00	13.85	30	Pass
NVNT	ANT1	802.11b	2462.00	RMS	13.50	0.00	13.50	30	Pass
NVNT	ANT1	802.11g	2412.00	RMS	13.61	0.00	13.61	30	Pass
NVNT	ANT1	802.11g	2437.00	RMS	13.57	0.00	13.57	30	Pass
NVNT	ANT1	802.11g	2462.00	RMS	13.28	0.00	13.28	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	RMS	13.42	0.00	13.42	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	RMS	13.53	0.00	13.53	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	RMS	13.17	0.00	13.17	30	Pass

Note: The cable loss are compensated in the graph.

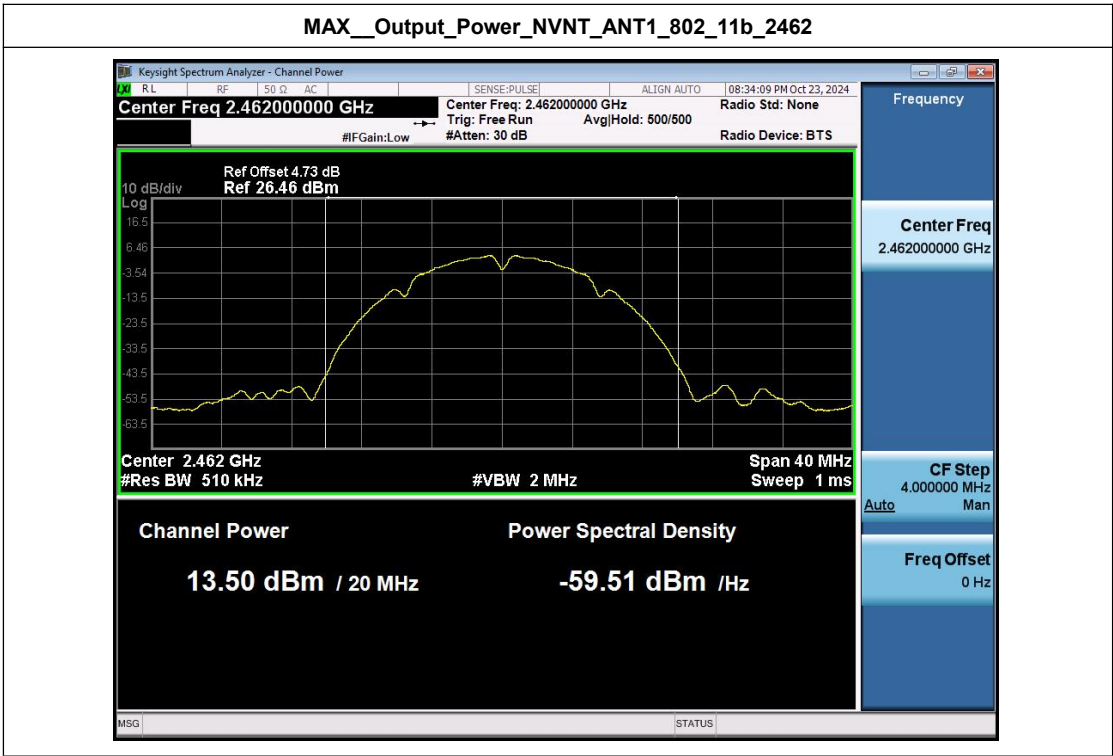


MAX_Output_Power_NVNT_ANT1_802_11b_2437



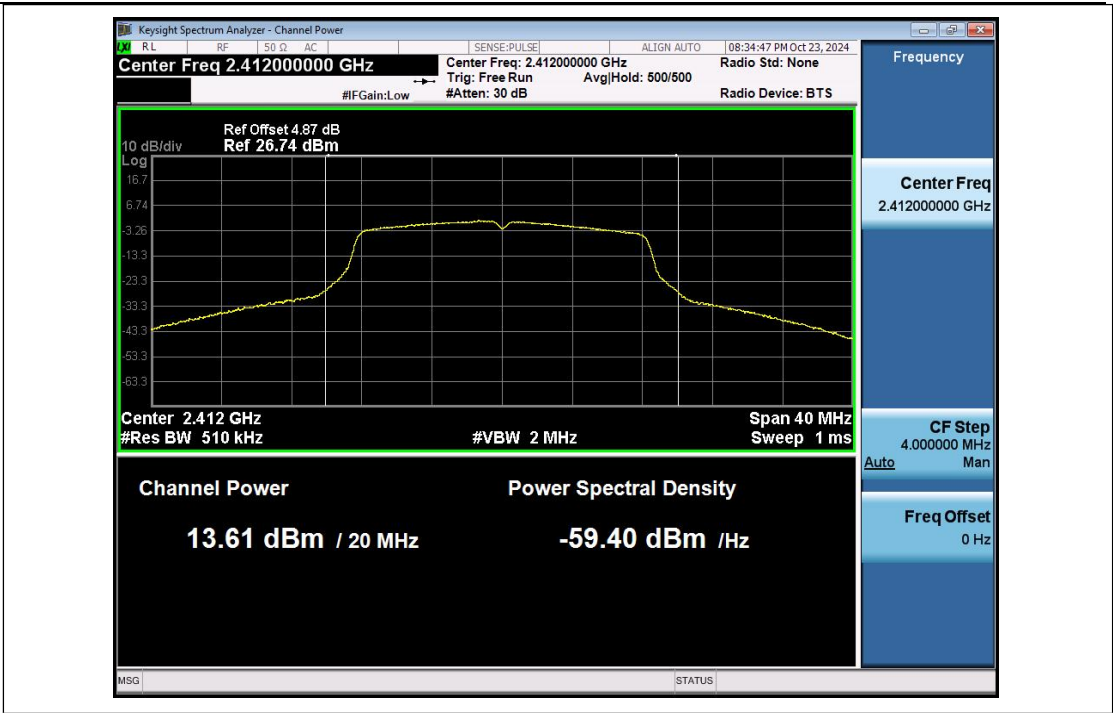


MAX_Output_Power_NVNT_ANT1_802_11b_2462

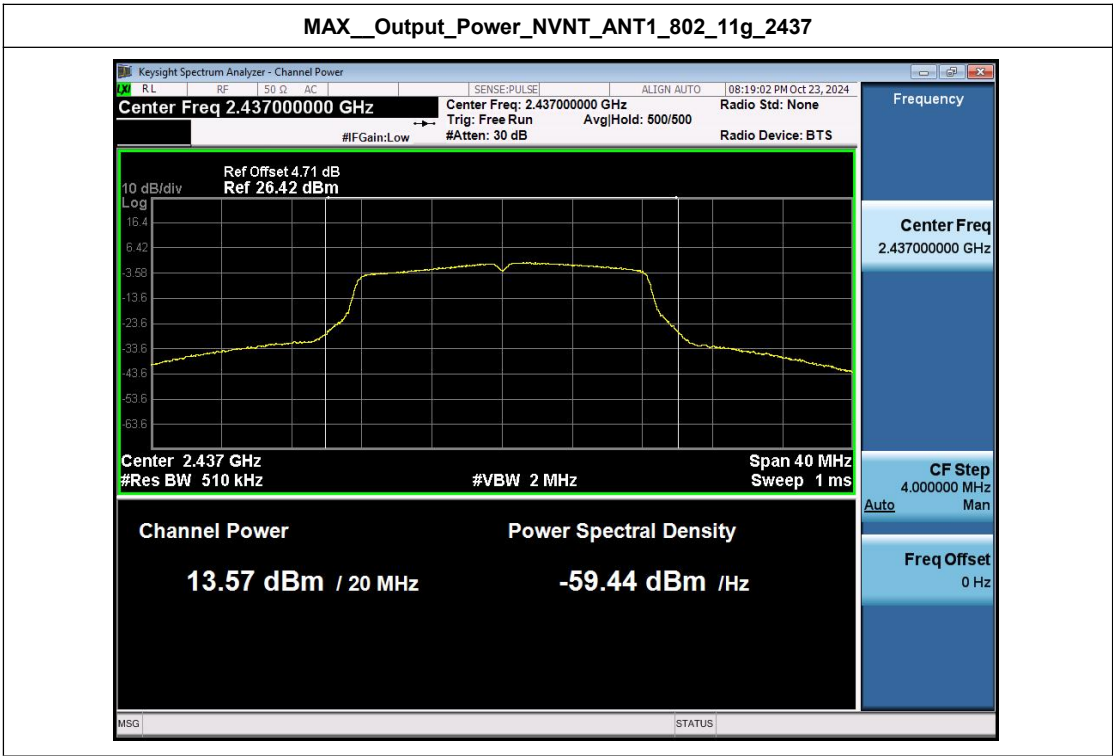


MAX_Output_Power_NVNT_ANT1_802_11g_2412



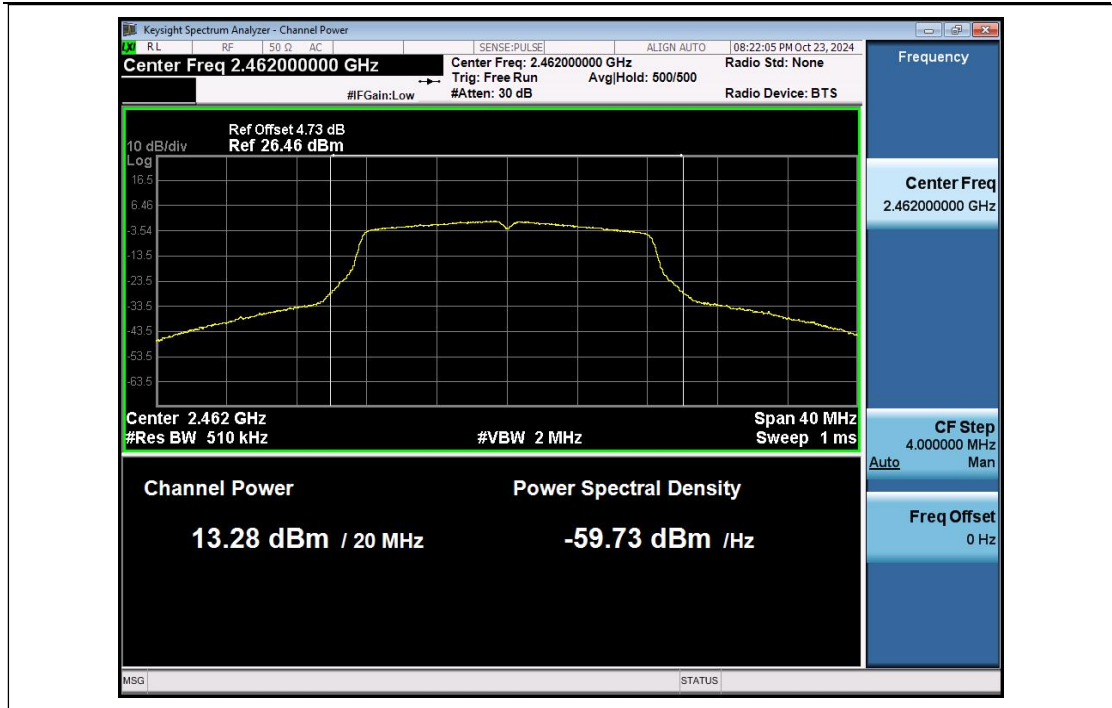


MAX_Output_Power_NVNT_ANT1_802_11g_2437

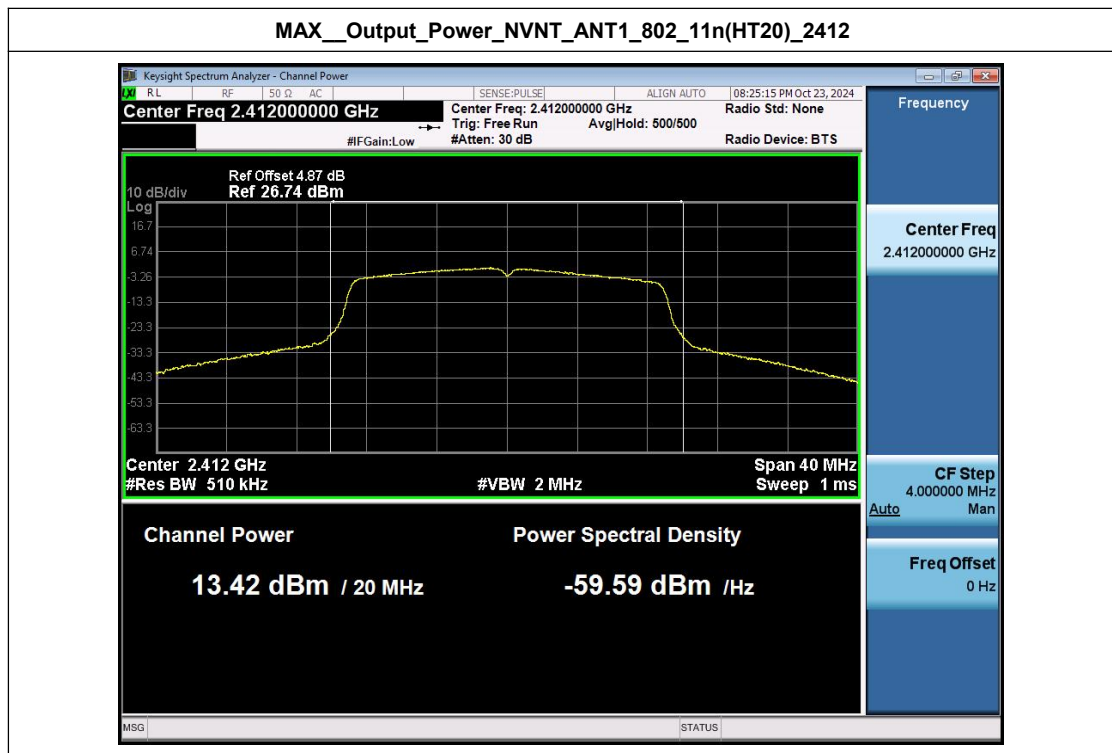


MAX_Output_Power_NVNT_ANT1_802_11g_2462



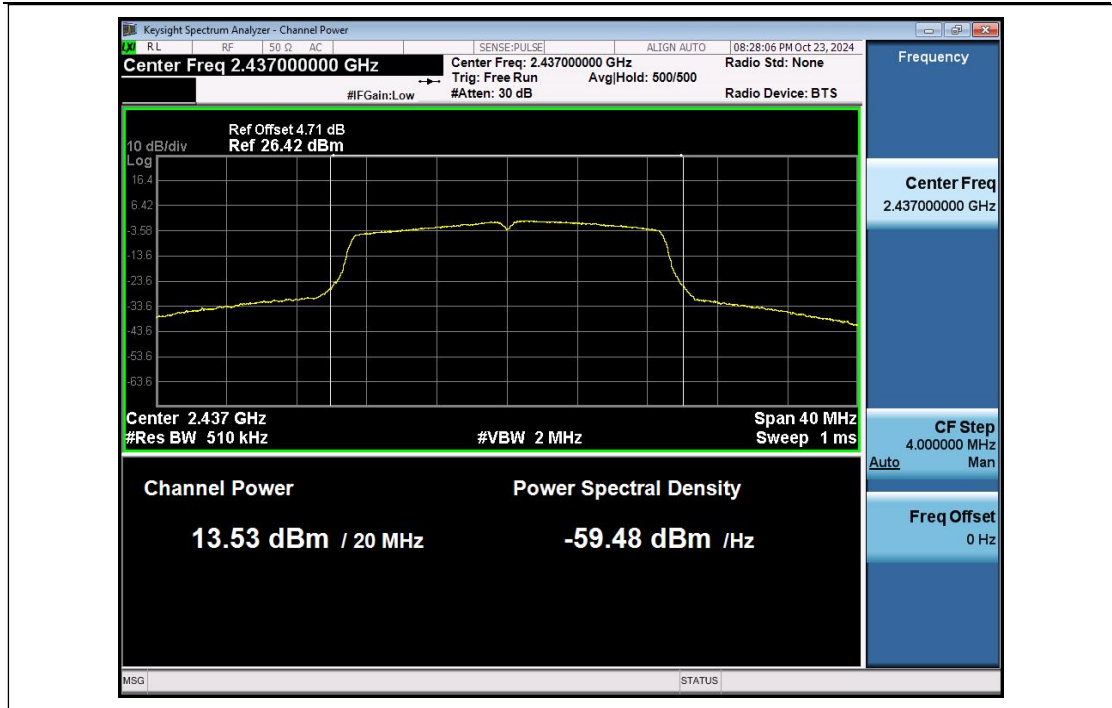


MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2412

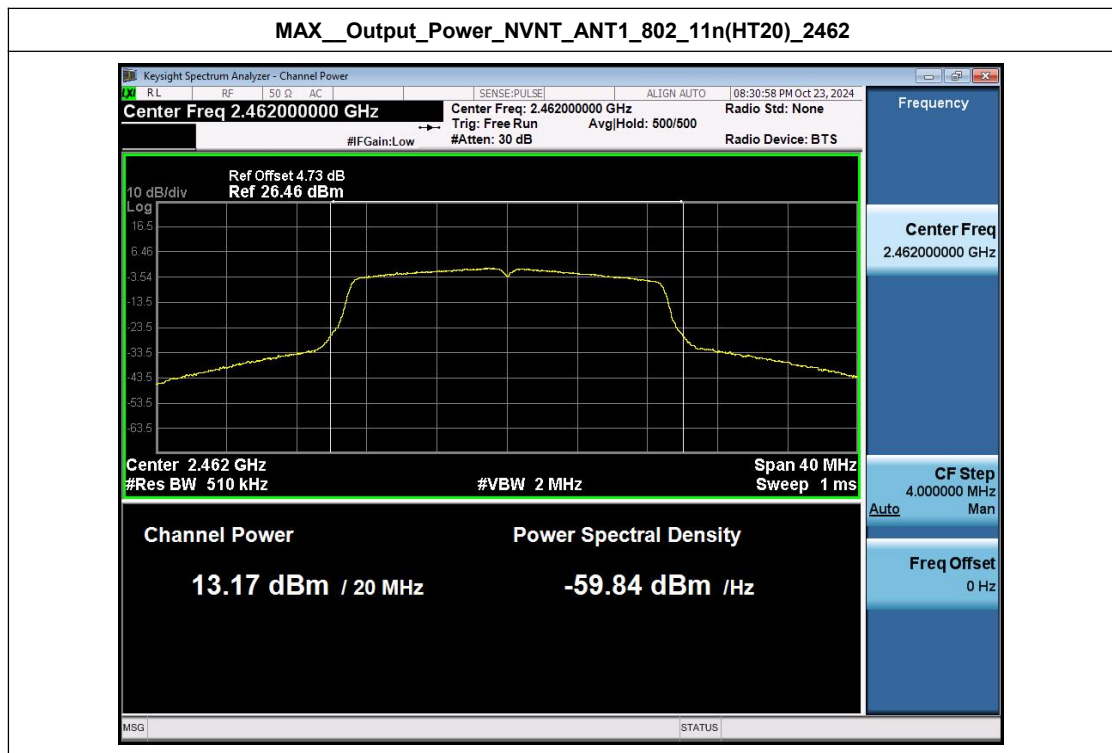


MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2437





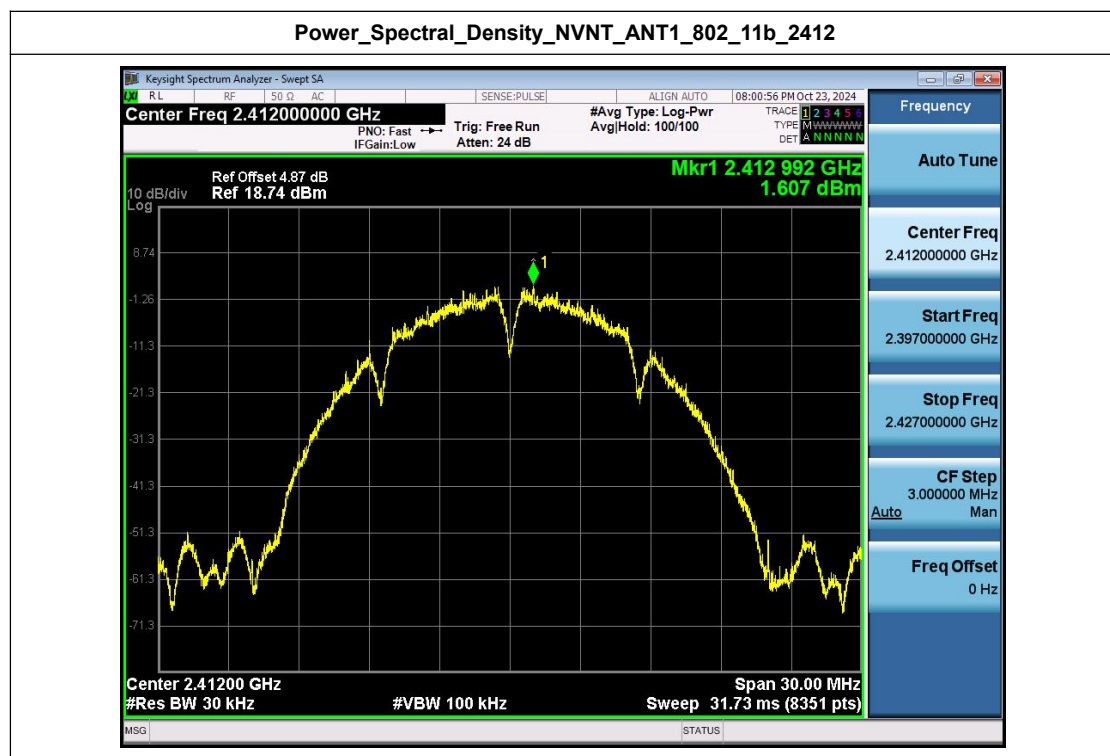
MAX_Output_Power_NVNT_ANT1_802_11n(HT20)_2462



Appendix E: Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD(dBm/30kHz)	Duty factor(dB)	RB factor(dB)	PSD(dBm/3 kHz)	limit(dBm/3 kHz)	Result
NVNT	ANT1	802.11b	2412.00	1.61	0	-10.00	-8.39	8	Pass
NVNT	ANT1	802.11b	2437.00	2.19	0	-10.00	-7.81	8	Pass
NVNT	ANT1	802.11b	2462.00	1.48	0	-10.00	-8.52	8	Pass
NVNT	ANT1	802.11g	2412.00	-1.49	0	-10.00	-11.48	8	Pass
NVNT	ANT1	802.11g	2437.00	-1.14	0	-10.00	-11.14	8	Pass
NVNT	ANT1	802.11g	2462.00	-1.52	0	-10.00	-11.52	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-0.36	0	-10.00	-10.36	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-0.96	0	-10.00	-10.96	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-0.62	0	-10.00	-10.62	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

