

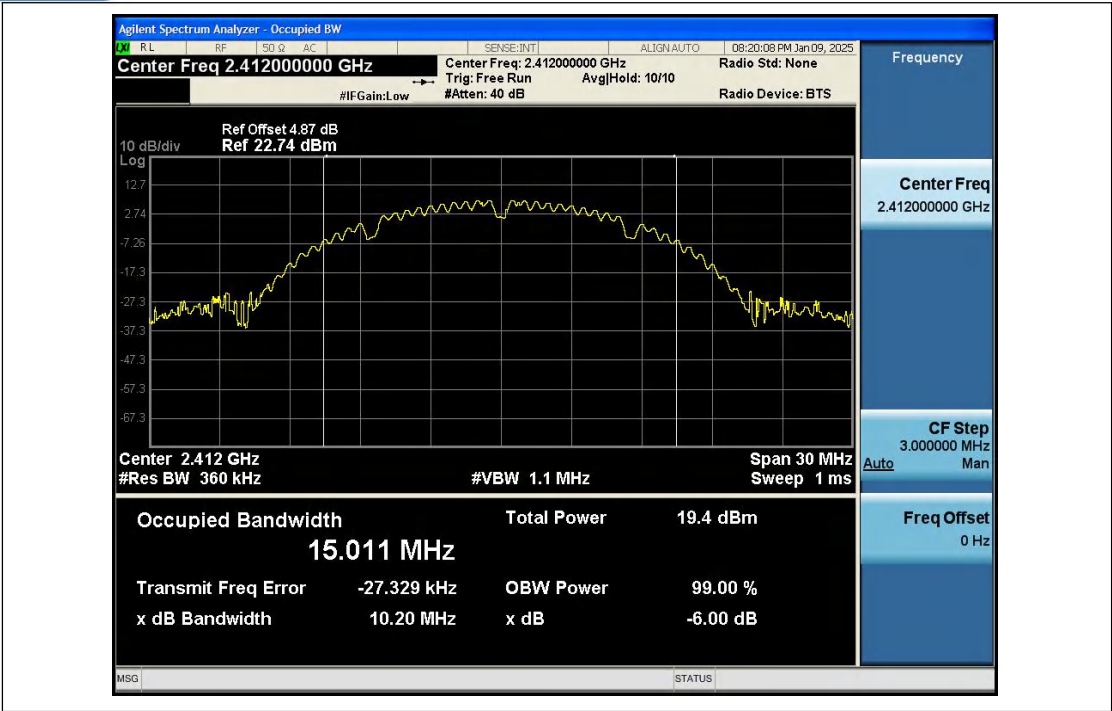
Appendix Test Data

Report No.:	1813C40236112503	Test Sample No.:	1-2-2
Start Test Date:	2024.12.16	Finish Test Date:	2025.1.9
Test Engineer:	<i>Foker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	24.8℃	Relative Humidity:	50%
Pressure:	101kPa		

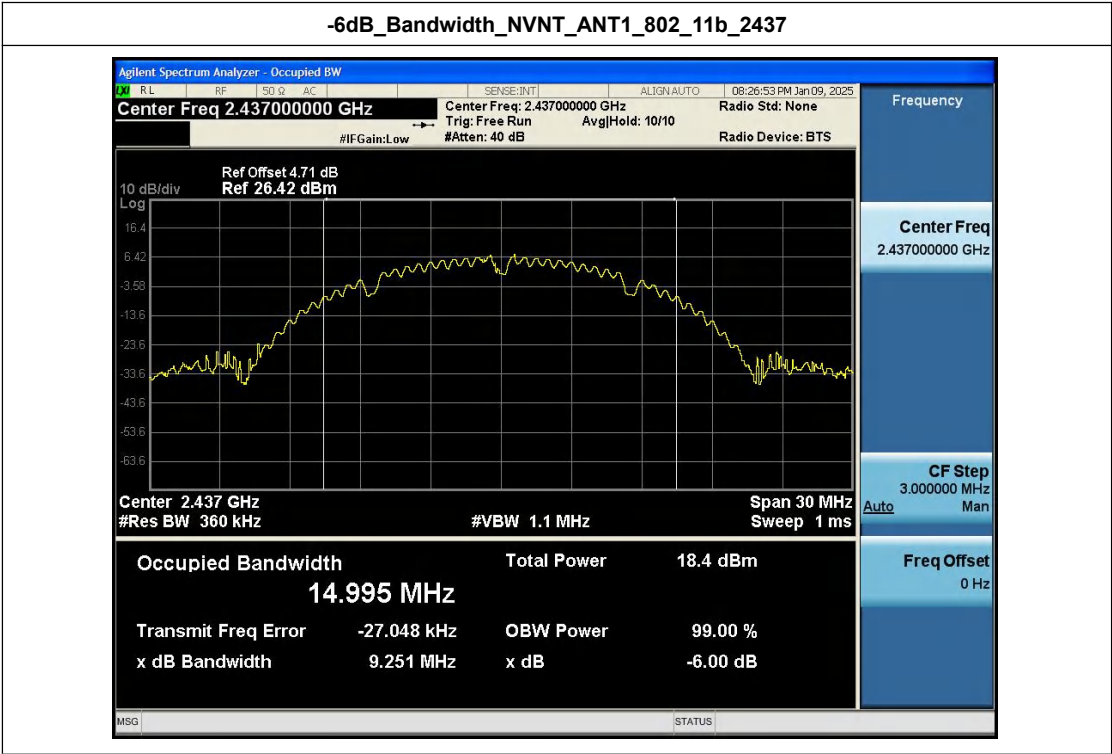
Appendix A: -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	10.20	500	Pass
NVNT	ANT1	802.11b	2437.00	9.25	500	Pass
NVNT	ANT1	802.11b	2462.00	10.20	500	Pass
NVNT	ANT1	802.11g	2412.00	16.60	500	Pass
NVNT	ANT1	802.11g	2437.00	16.60	500	Pass
NVNT	ANT1	802.11g	2462.00	16.62	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.78	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.80	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.89	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	36.26	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	36.19	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	36.32	500	Pass

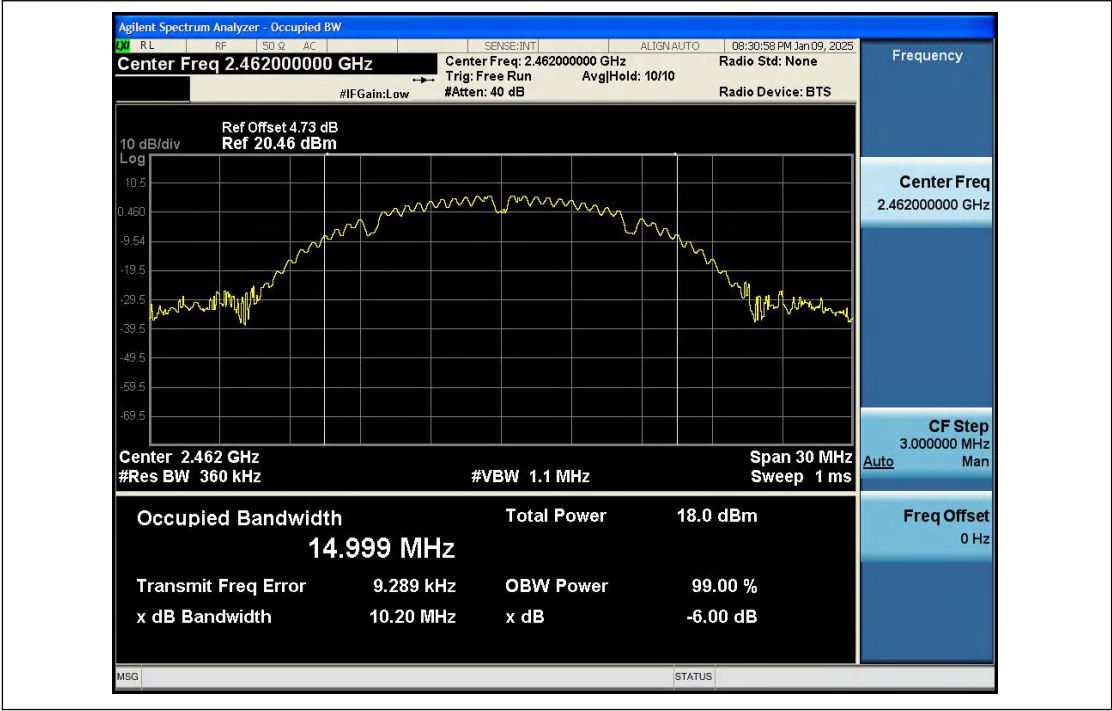
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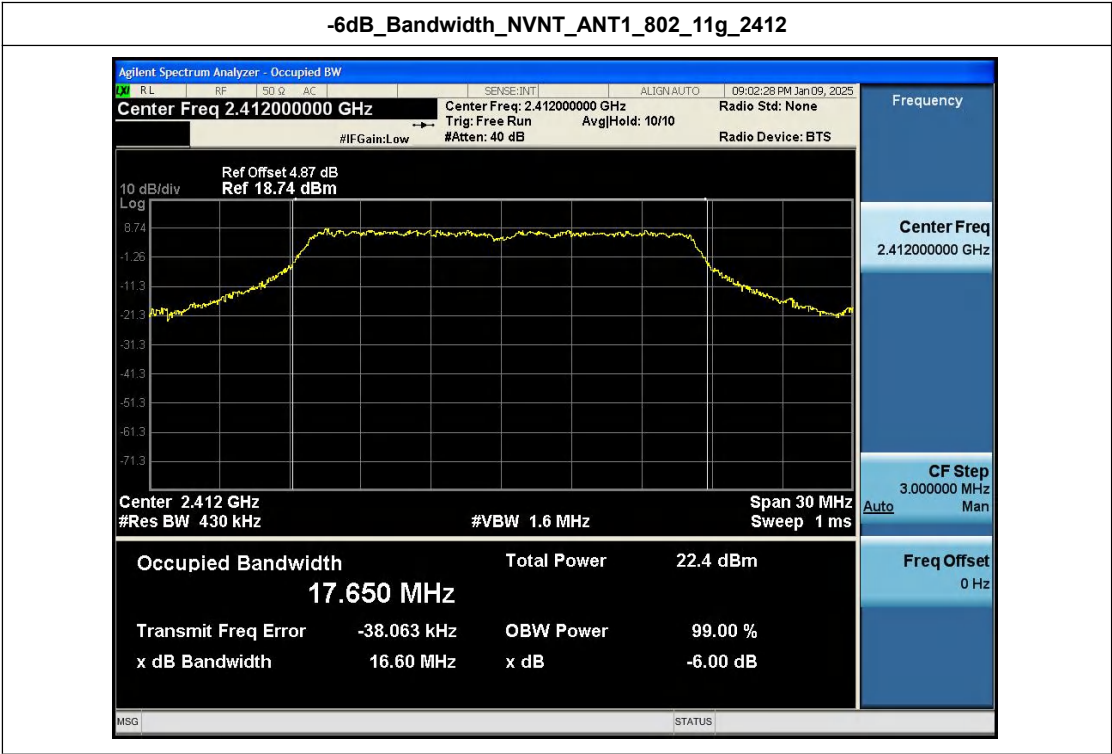
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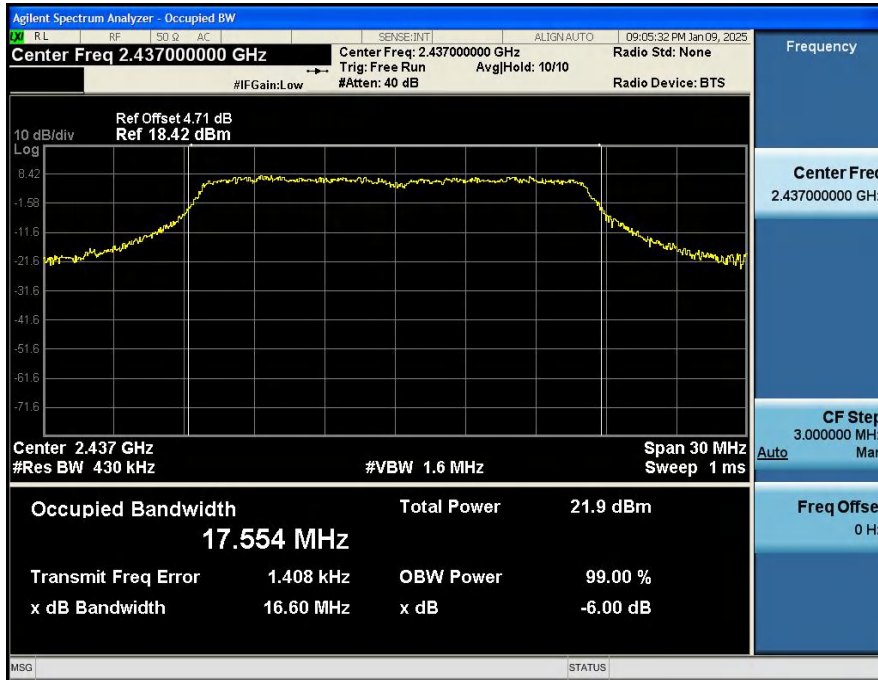
-6dB_Bandwidth_NVNT_ANT1_802_11b_2462



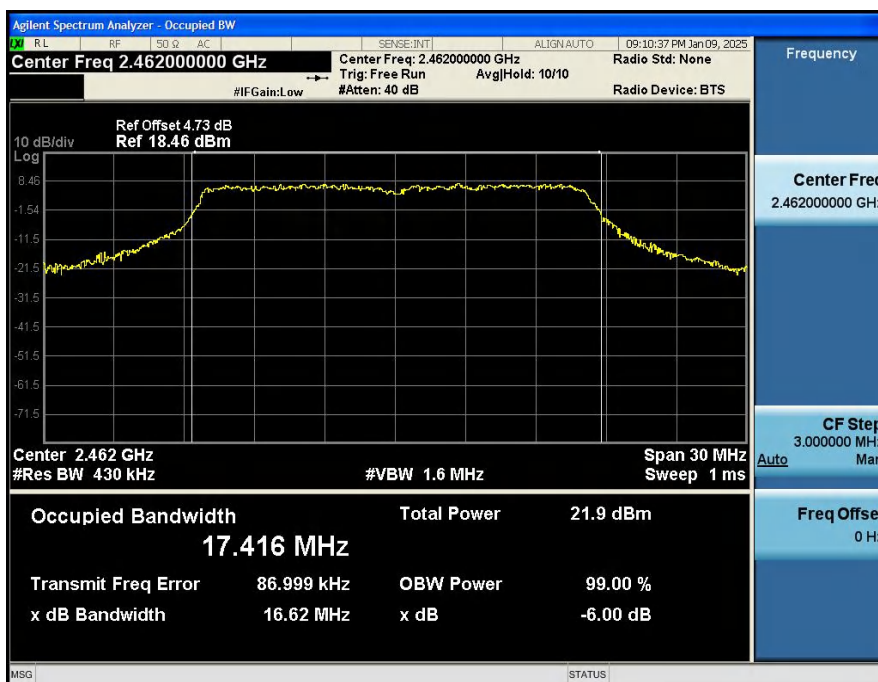
-6dB_Bandwidth_NVNT_ANT1_802_11g_2412



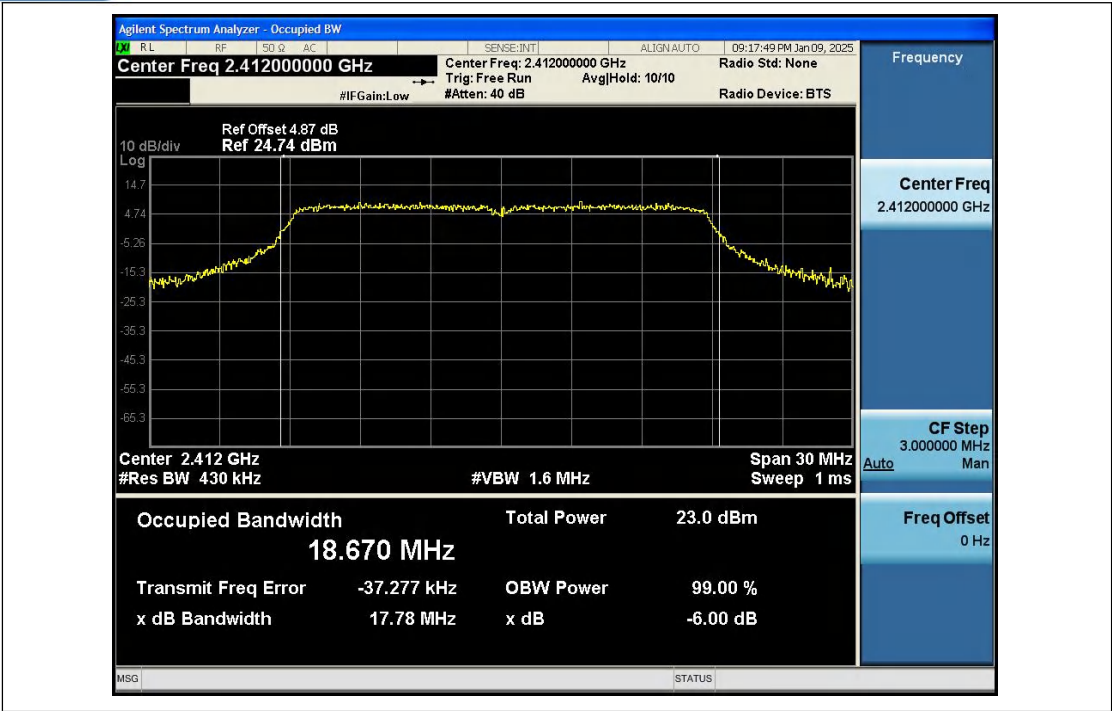
-6dB_Bandwidth_NVNT_ANT1_802_11g_2437



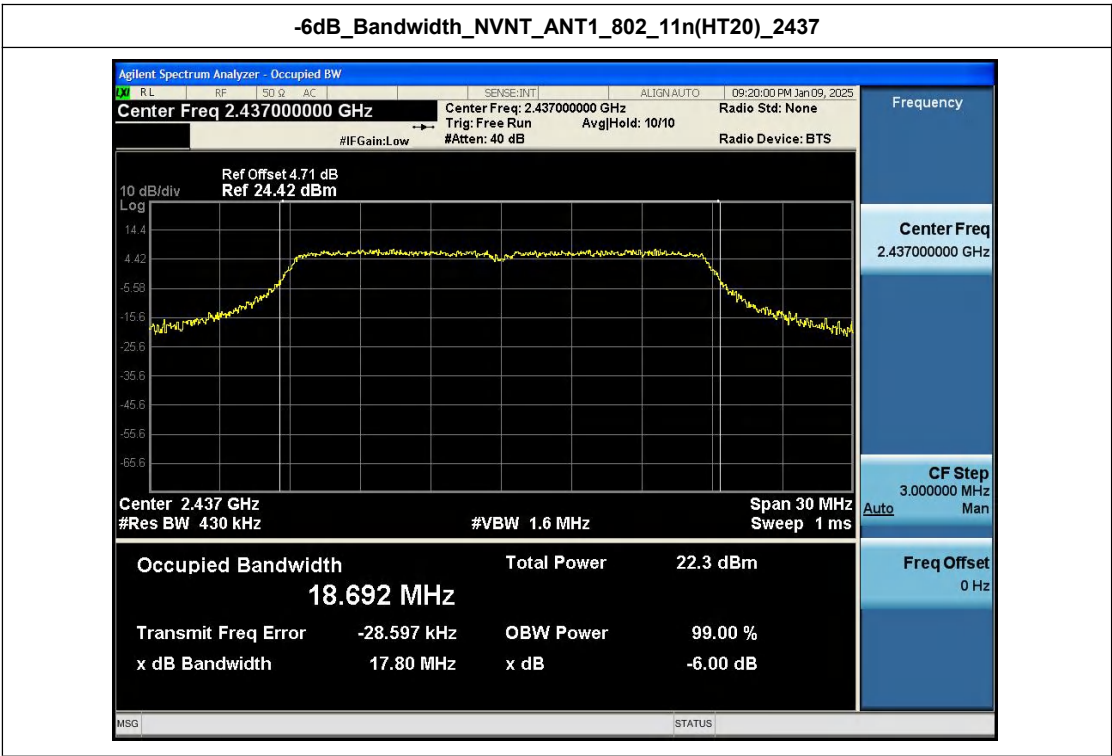
-6dB_Bandwidth_NVNT_ANT1_802_11g_2462



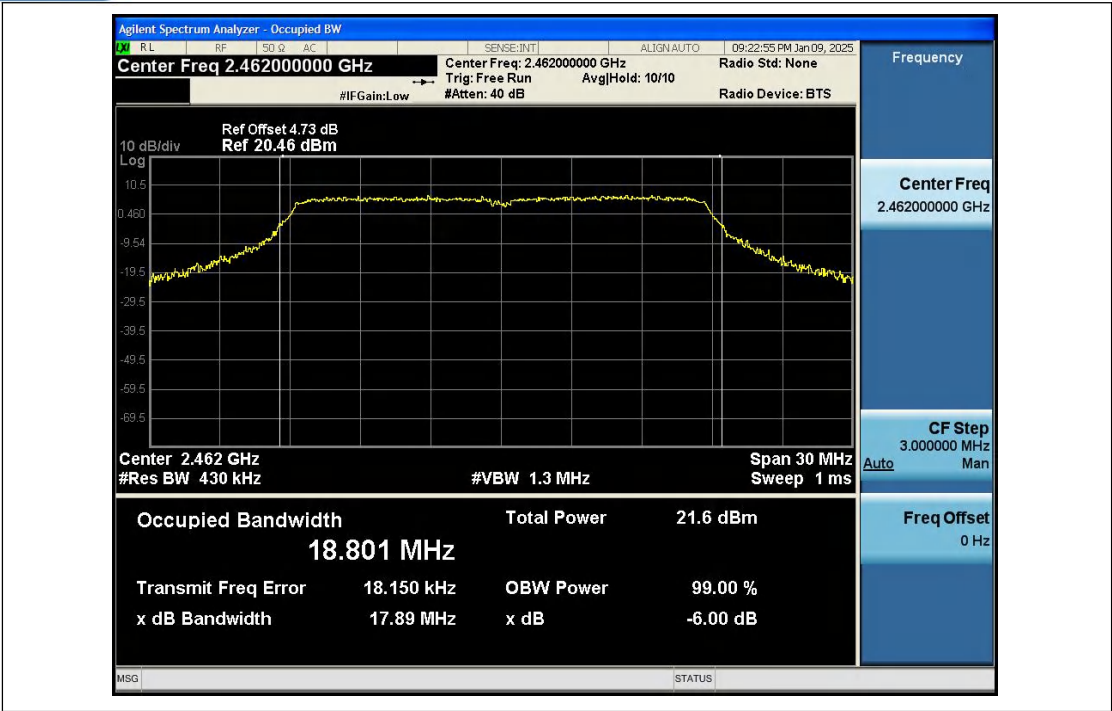
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



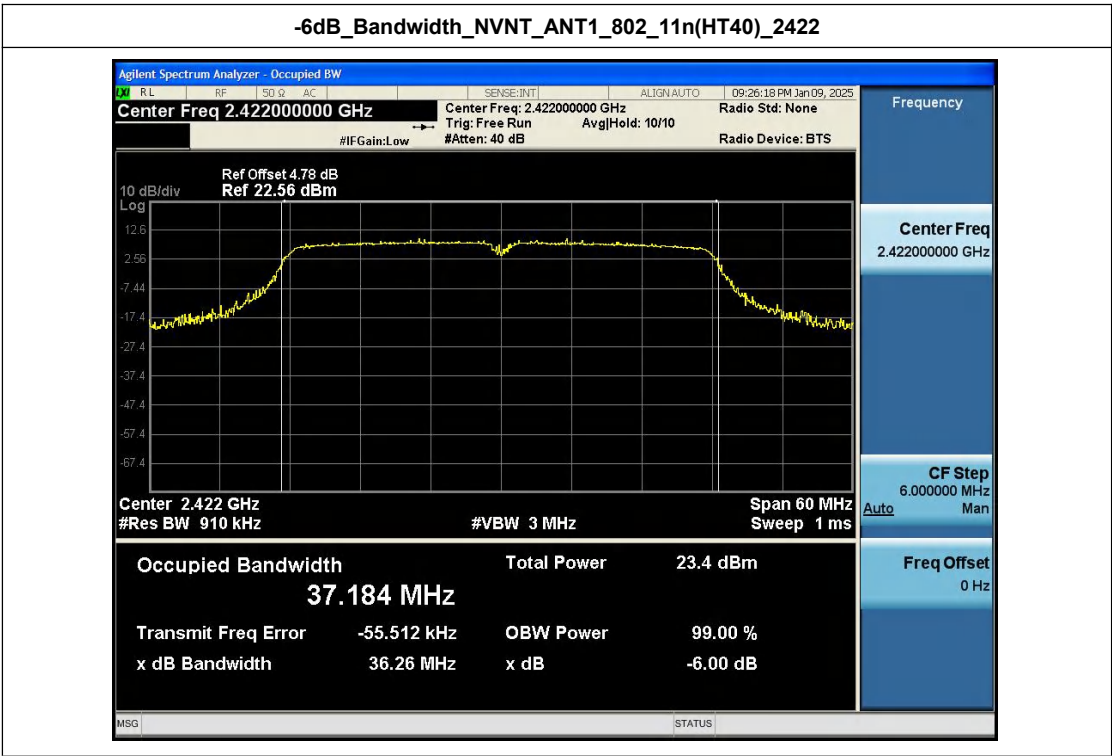
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



Frequency

Center Freq

2.422000000 GHz

CF Step

6.000000 MHz

Auto

Man

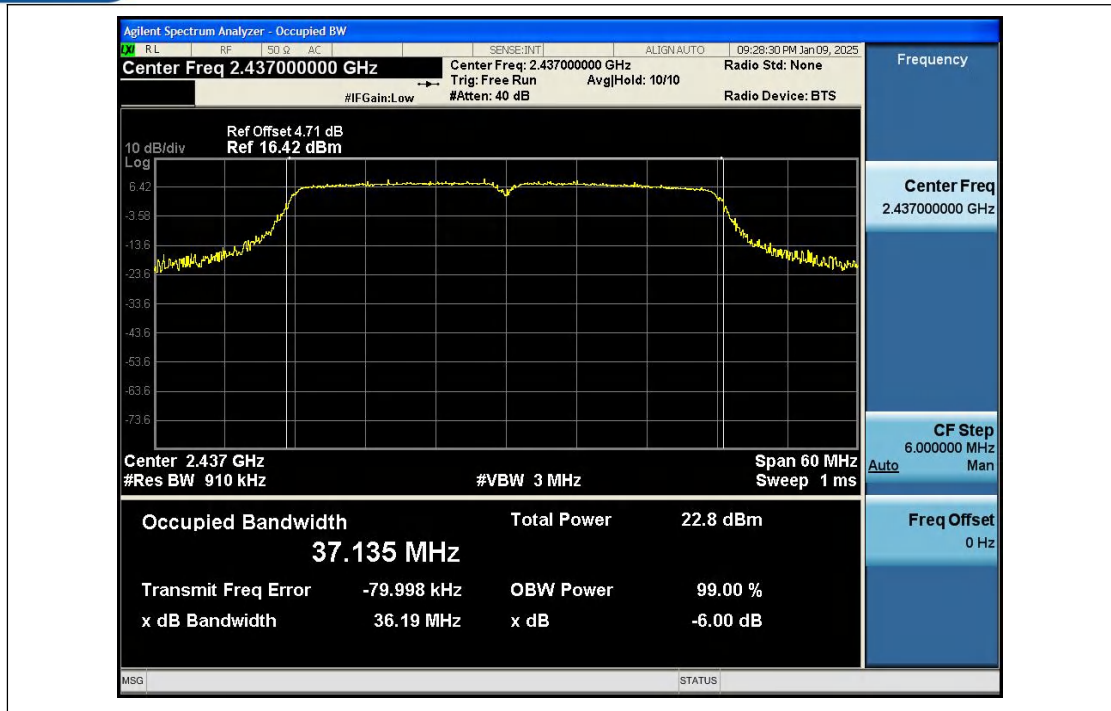
Freq Offset

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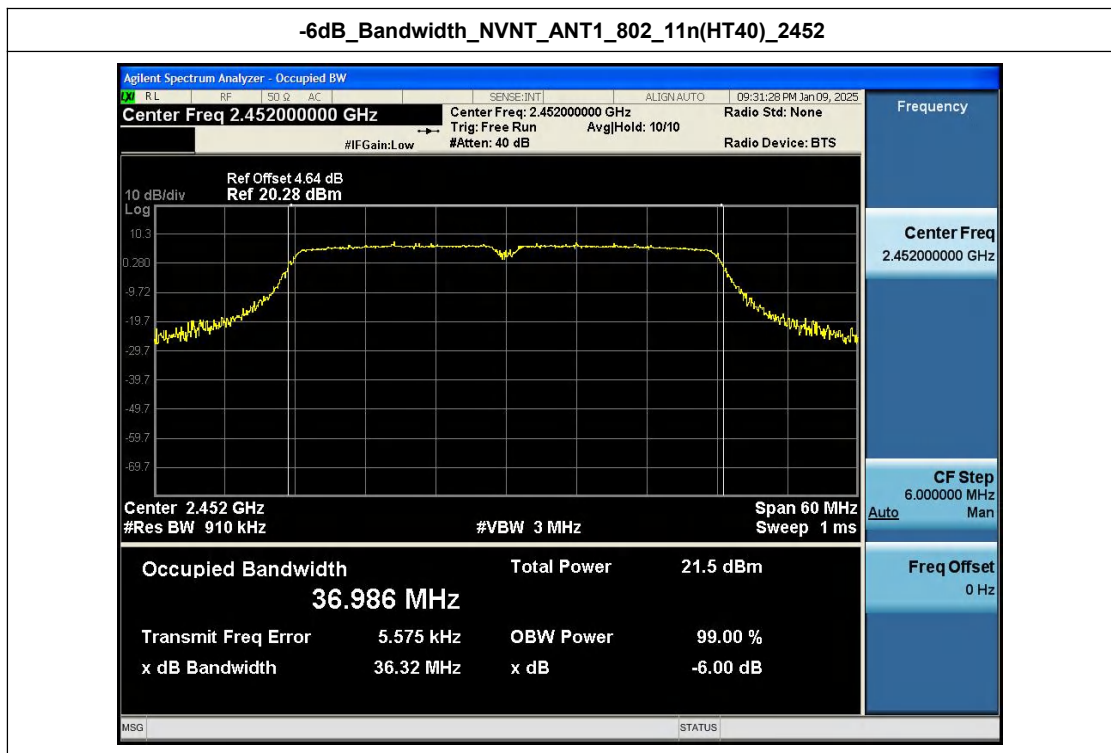
MSG

STATUS

-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



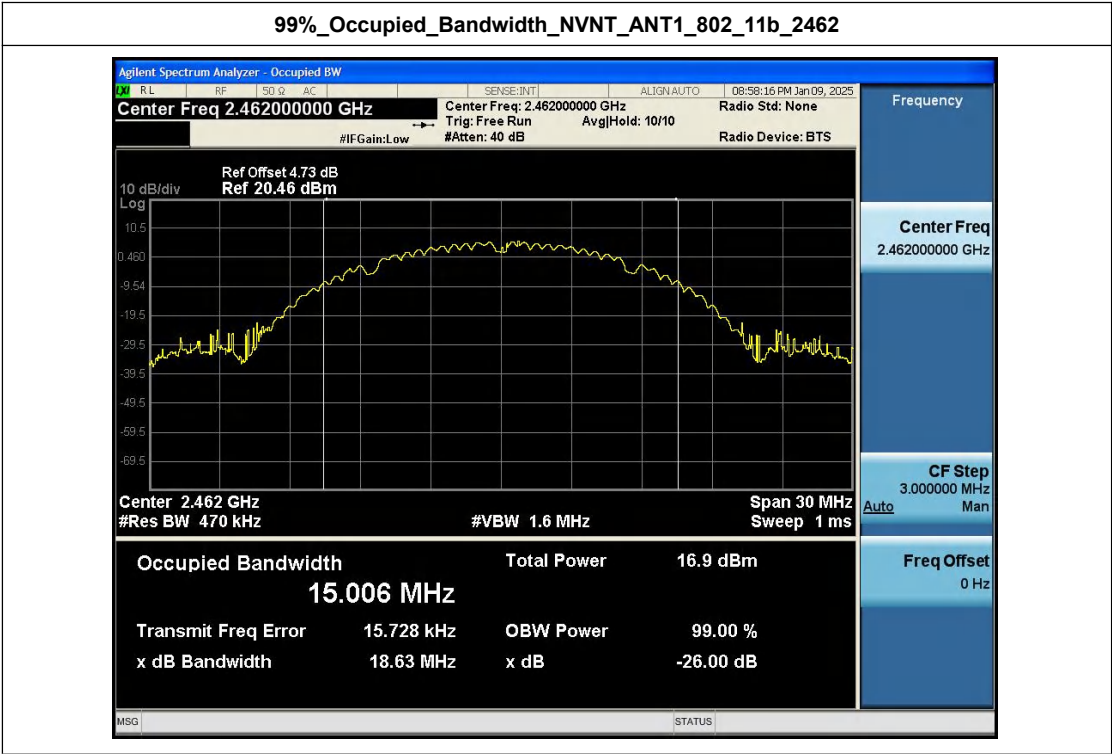
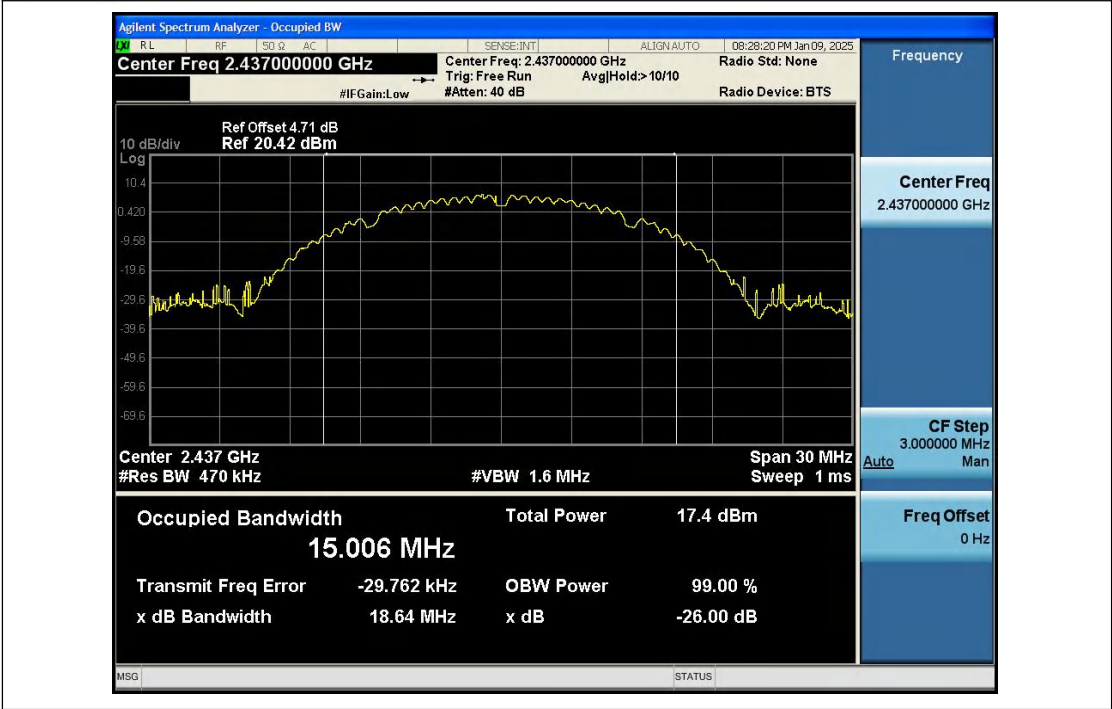
Appendix B: 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%BW(MHz)
NVNT	ANT1	802.11b	2412.00	14.997
NVNT	ANT1	802.11b	2437.00	15.006
NVNT	ANT1	802.11b	2462.00	15.006
NVNT	ANT1	802.11g	2412.00	18.059
NVNT	ANT1	802.11g	2437.00	17.988
NVNT	ANT1	802.11g	2462.00	17.682
NVNT	ANT1	802.11n(HT20)	2412.00	19.293
NVNT	ANT1	802.11n(HT20)	2437.00	19.191
NVNT	ANT1	802.11n(HT20)	2462.00	19.133
NVNT	ANT1	802.11n(HT40)	2422.00	37.265
NVNT	ANT1	802.11n(HT40)	2437.00	37.240
NVNT	ANT1	802.11n(HT40)	2452.00	37.165

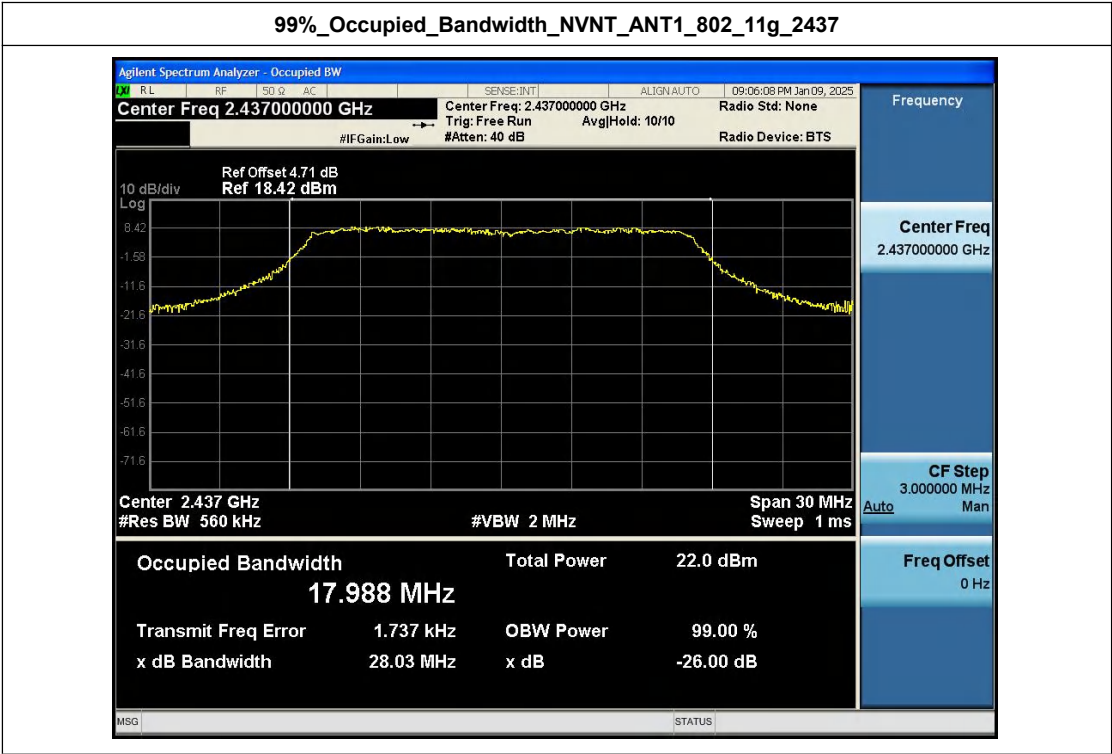
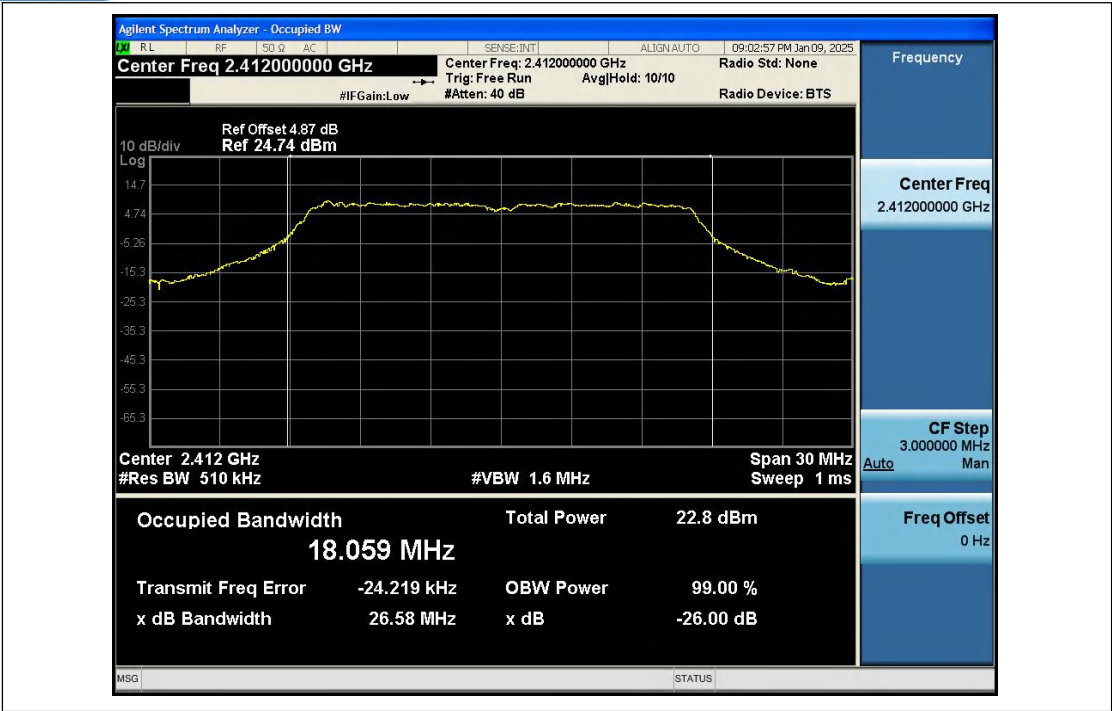
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2412



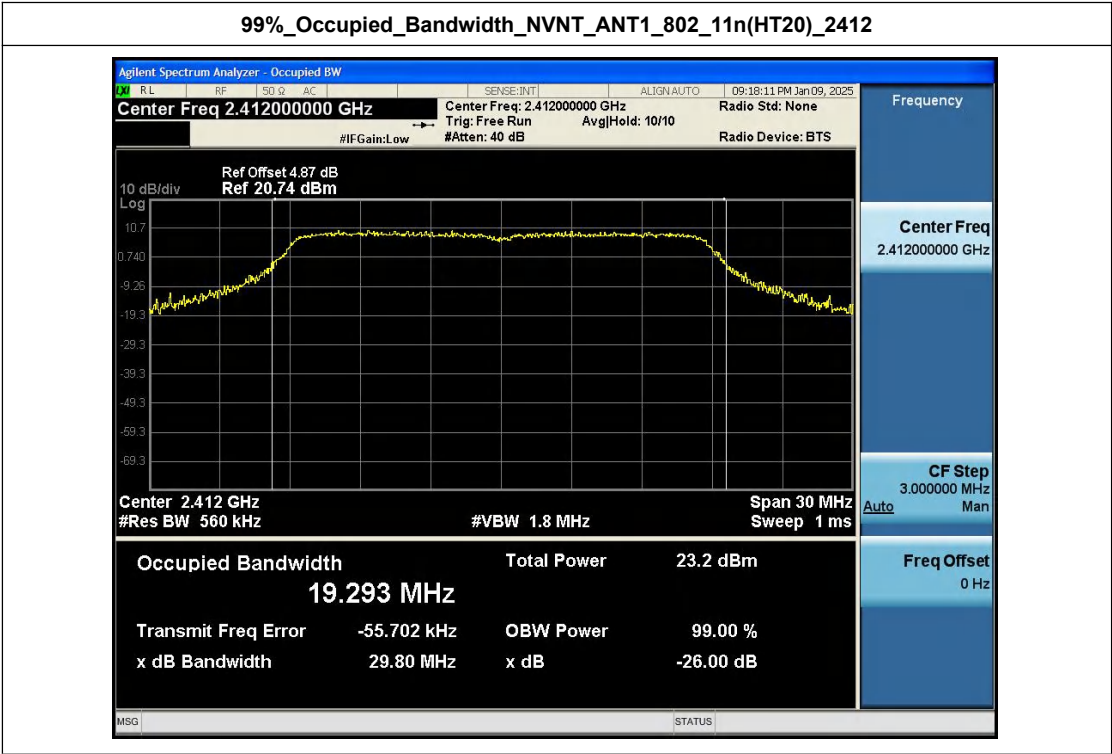
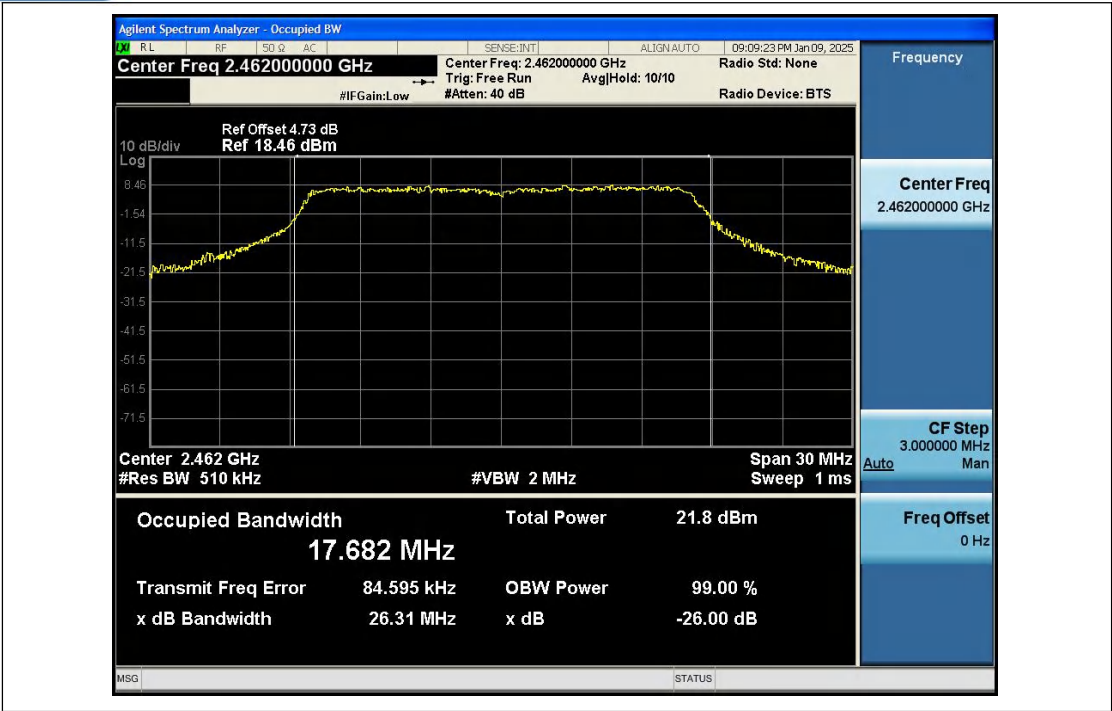
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2437



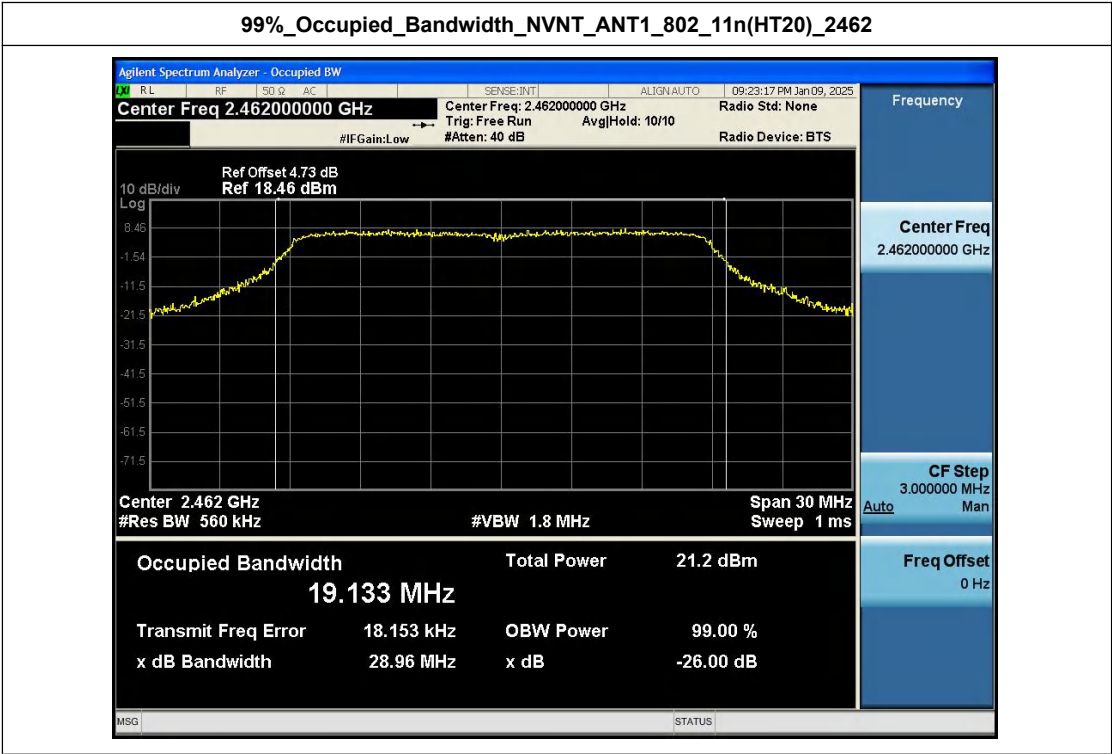
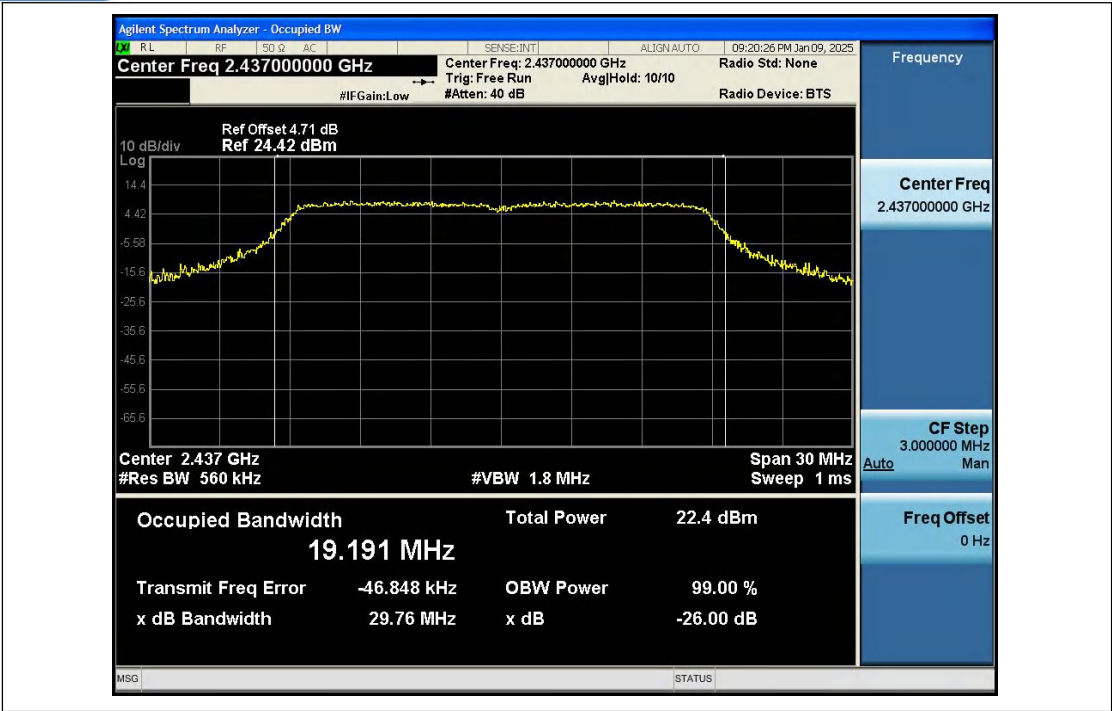
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2412



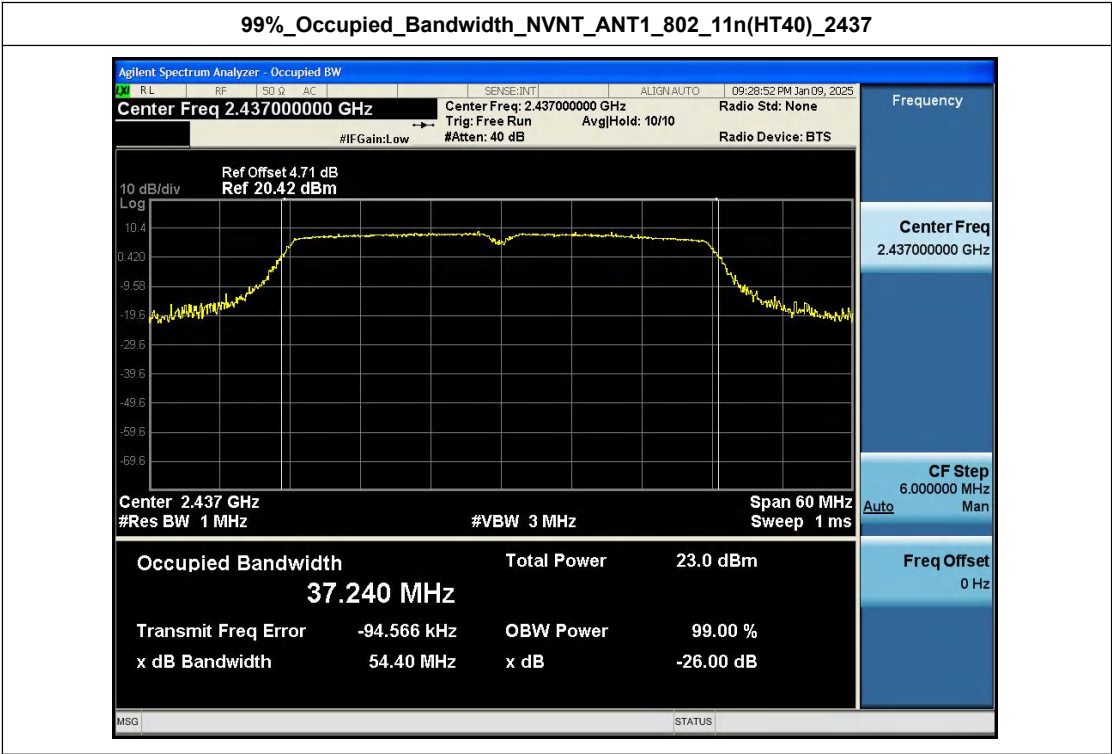
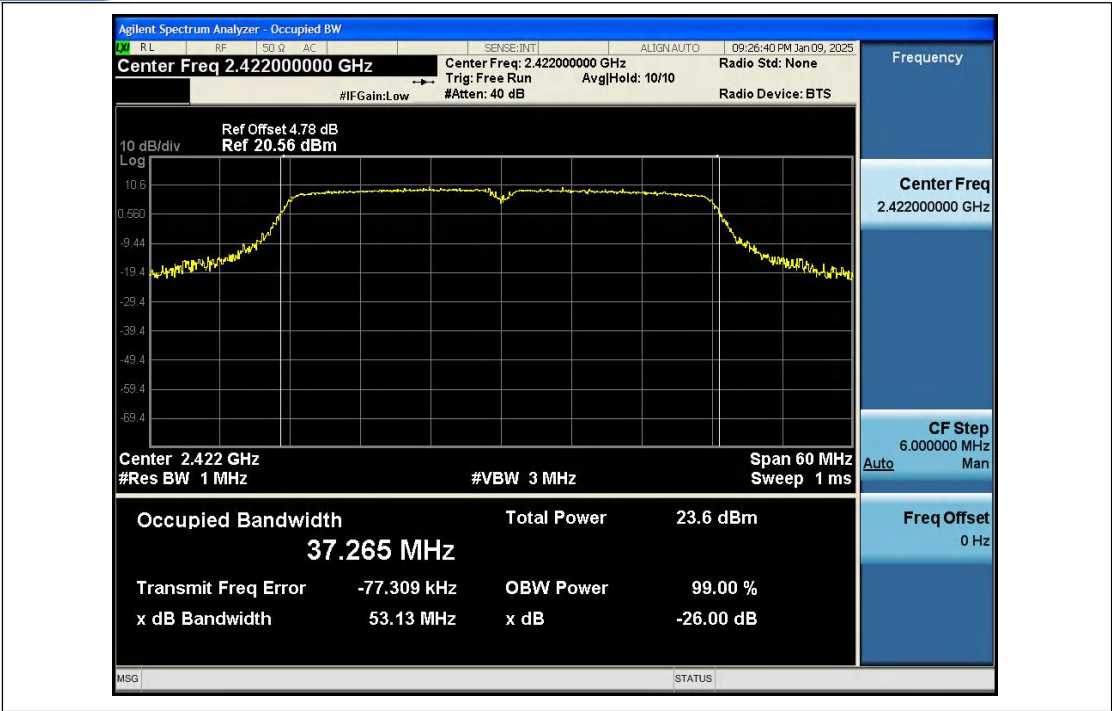
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2462



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



Frequency

Center Freq

2.437000000 GHz

CF Step

6.000000 MHz

Auto

Man

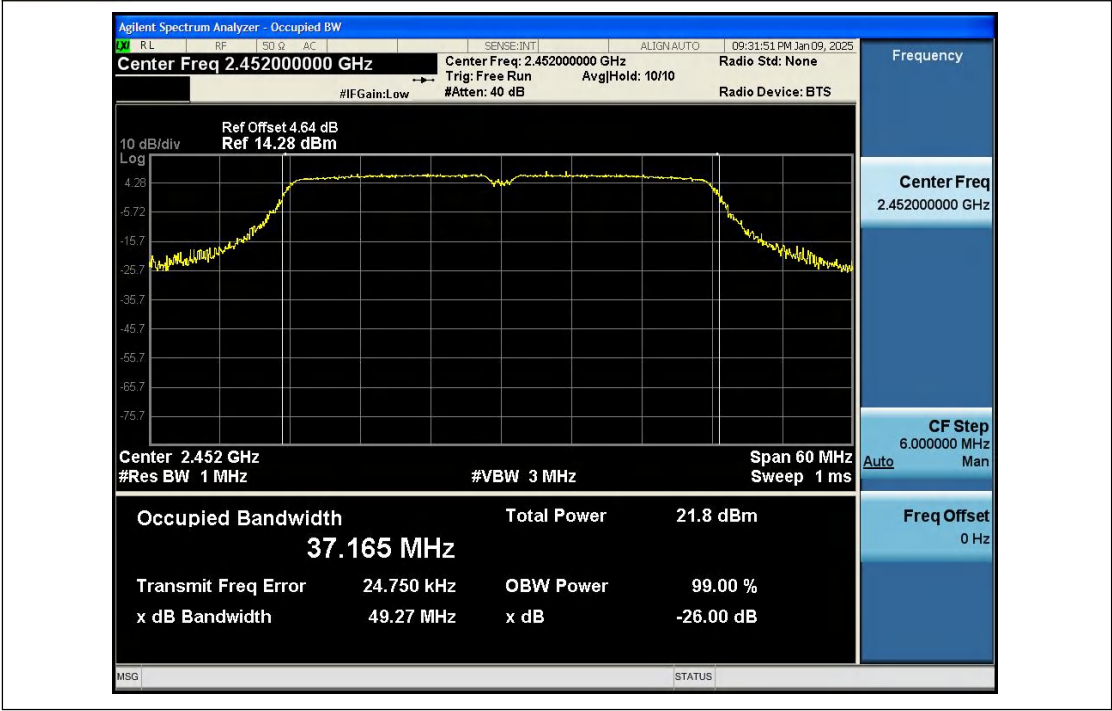
Freq Offset

0 Hz

MSG

STATUS

99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



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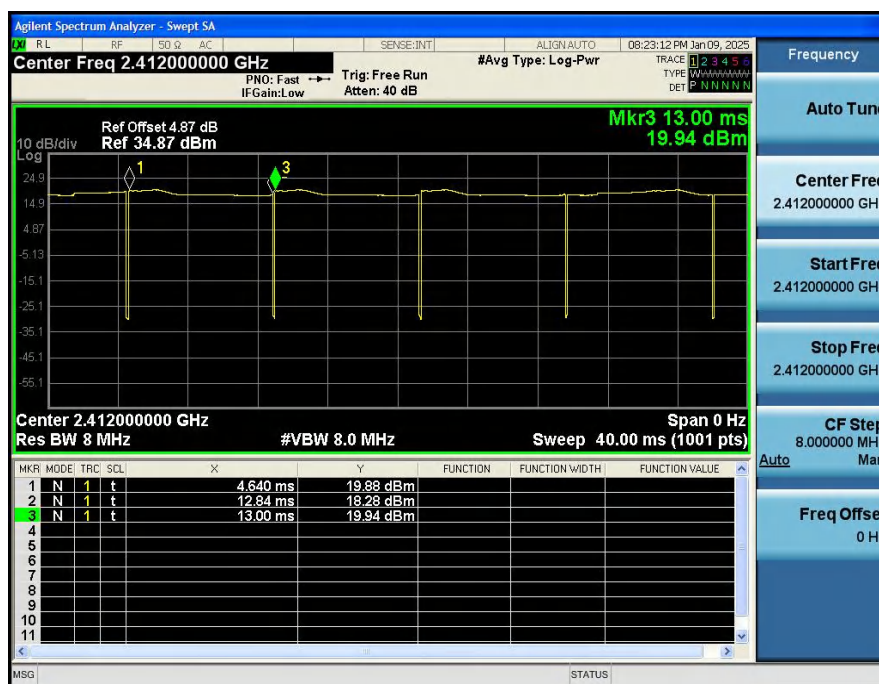
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park,
Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
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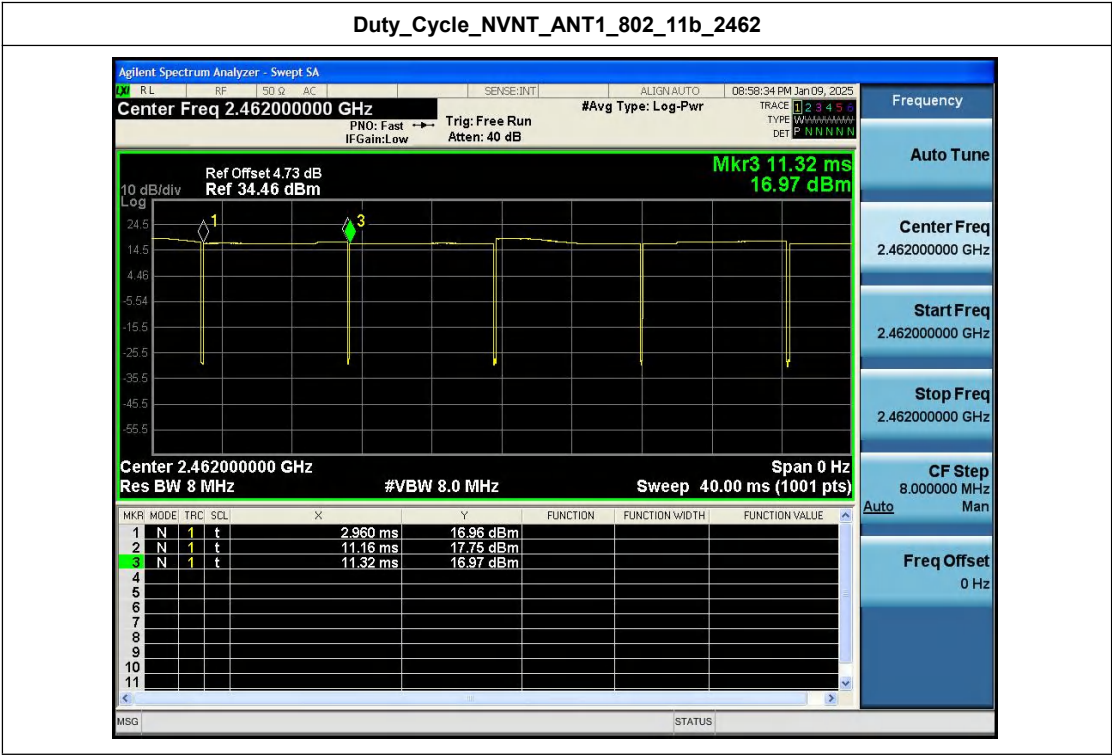
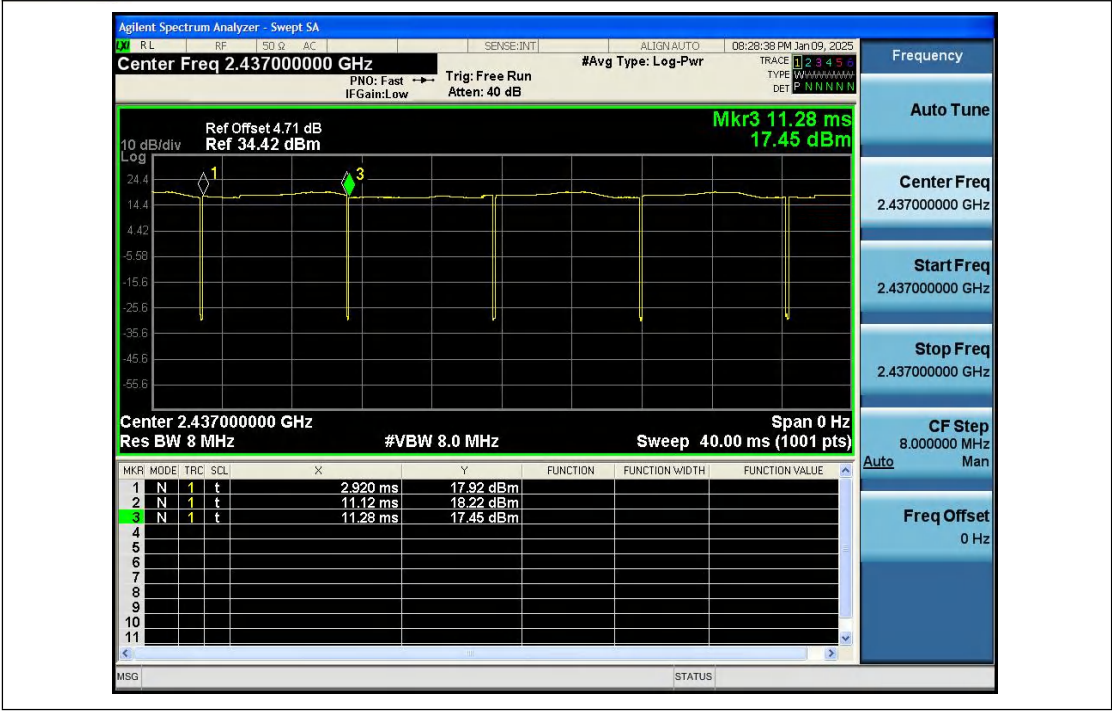
Appendix C: Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	98.56	0.00
NVNT	ANT1	802.11b	2437.00	98.56	0.00
NVNT	ANT1	802.11b	2462.00	98.56	0.00
NVNT	ANT1	802.11g	2412.00	89.61	0.48
NVNT	ANT1	802.11g	2437.00	89.61	0.48
NVNT	ANT1	802.11g	2462.00	89.61	0.48
NVNT	ANT1	802.11n(HT20)	2412.00	96.96	0.13
NVNT	ANT1	802.11n(HT20)	2437.00	96.96	0.13
NVNT	ANT1	802.11n(HT20)	2462.00	97.34	0.12
NVNT	ANT1	802.11n(HT40)	2422.00	94.70	0.24
NVNT	ANT1	802.11n(HT40)	2437.00	93.94	0.27
NVNT	ANT1	802.11n(HT40)	2452.00	94.70	0.24

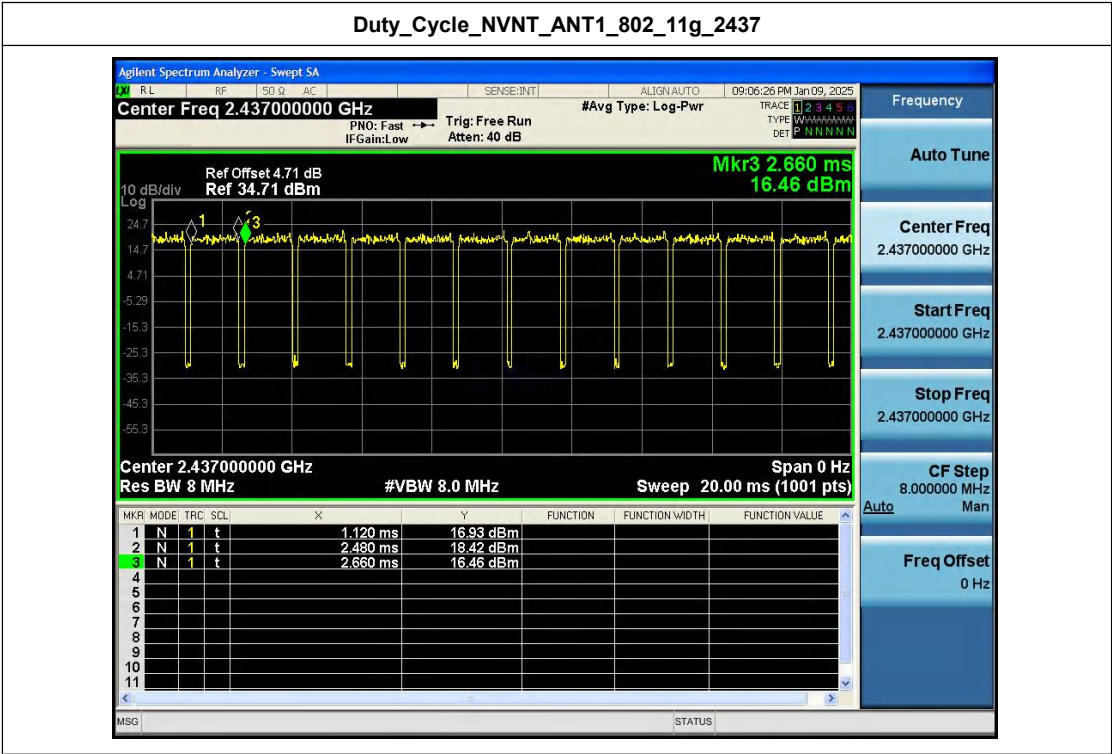
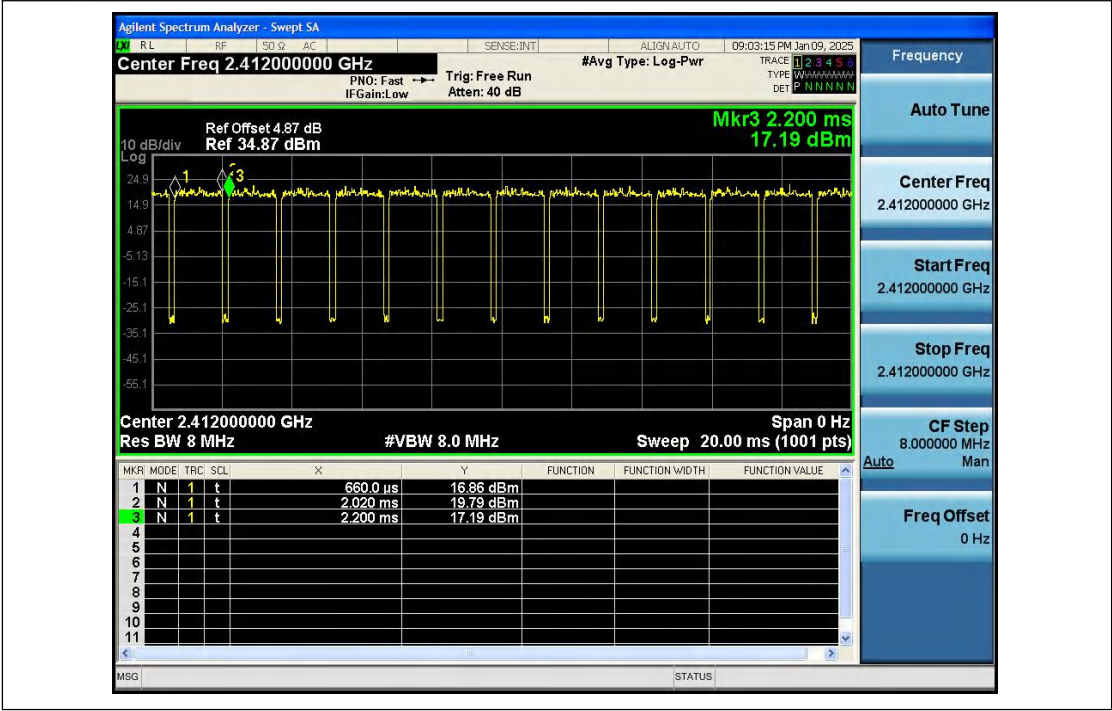
Duty_Cycle_NVNT_ANT1_802_11b_2412



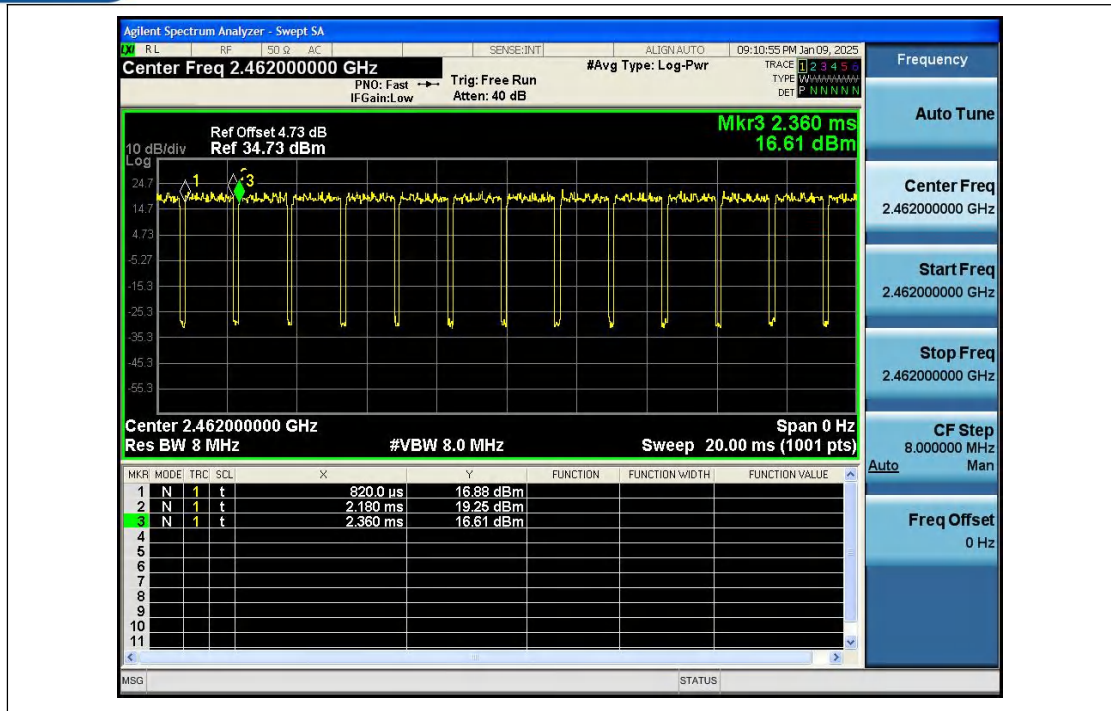
Duty_Cycle_NVNT_ANT1_802_11b_2437



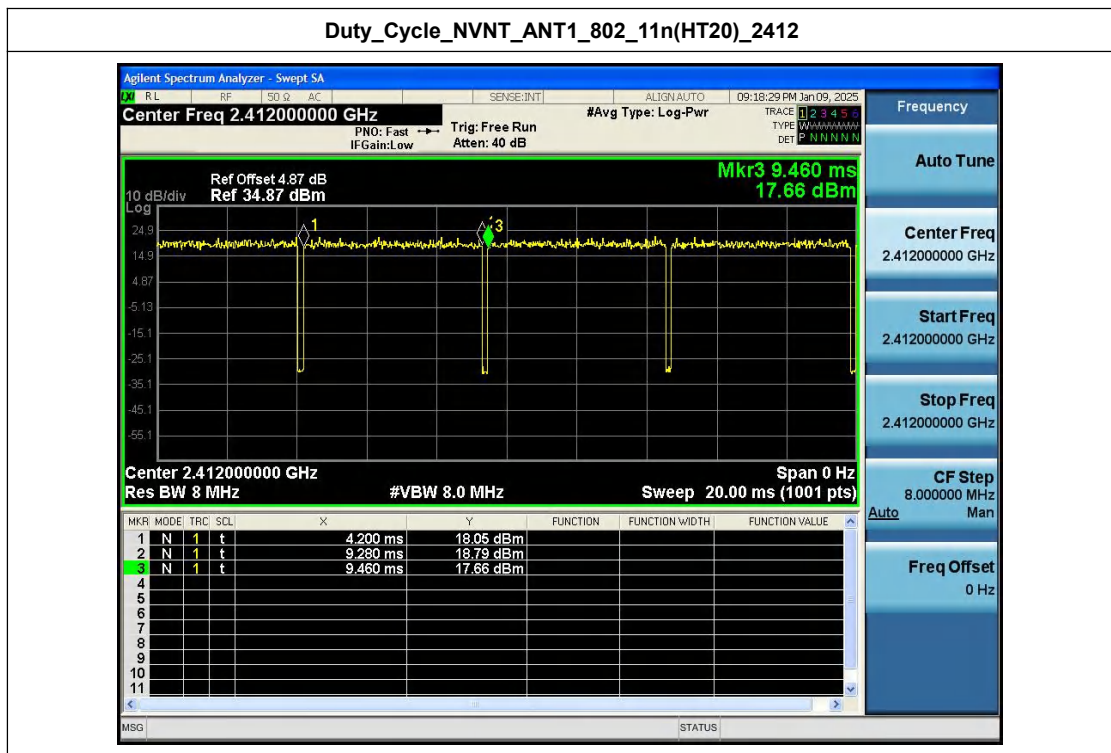
Duty_Cycle_NVNT_ANT1_802_11g_2412



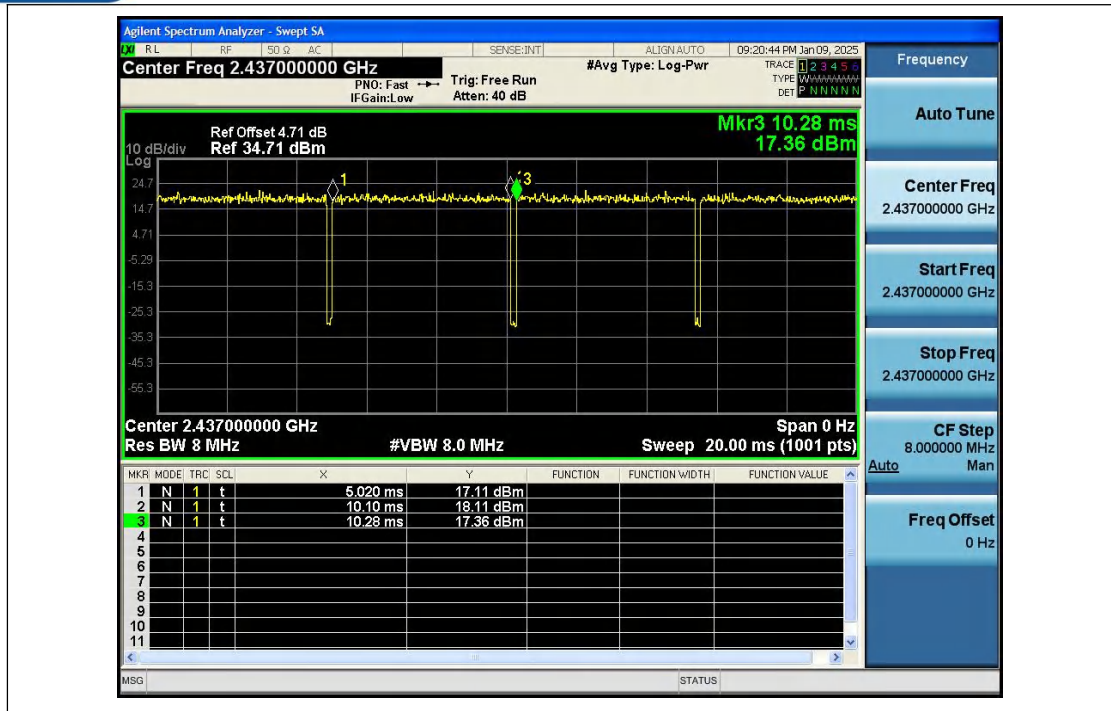
Duty_Cycle_NVNT_ANT1_802_11g_2462



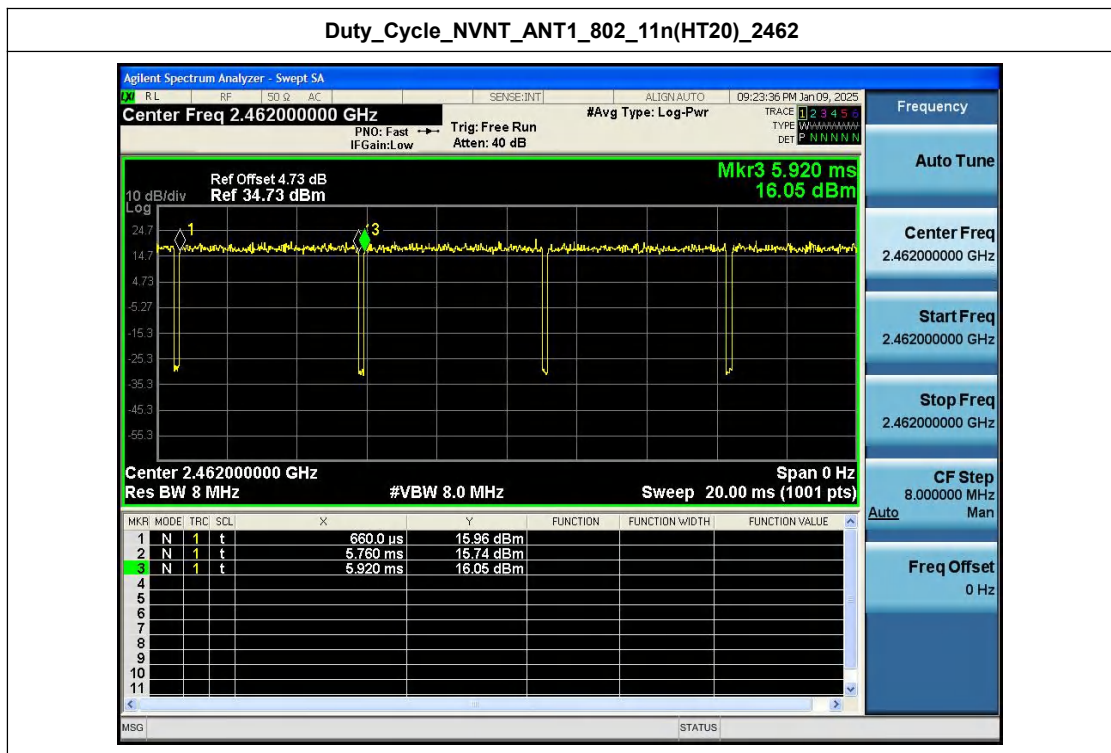
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



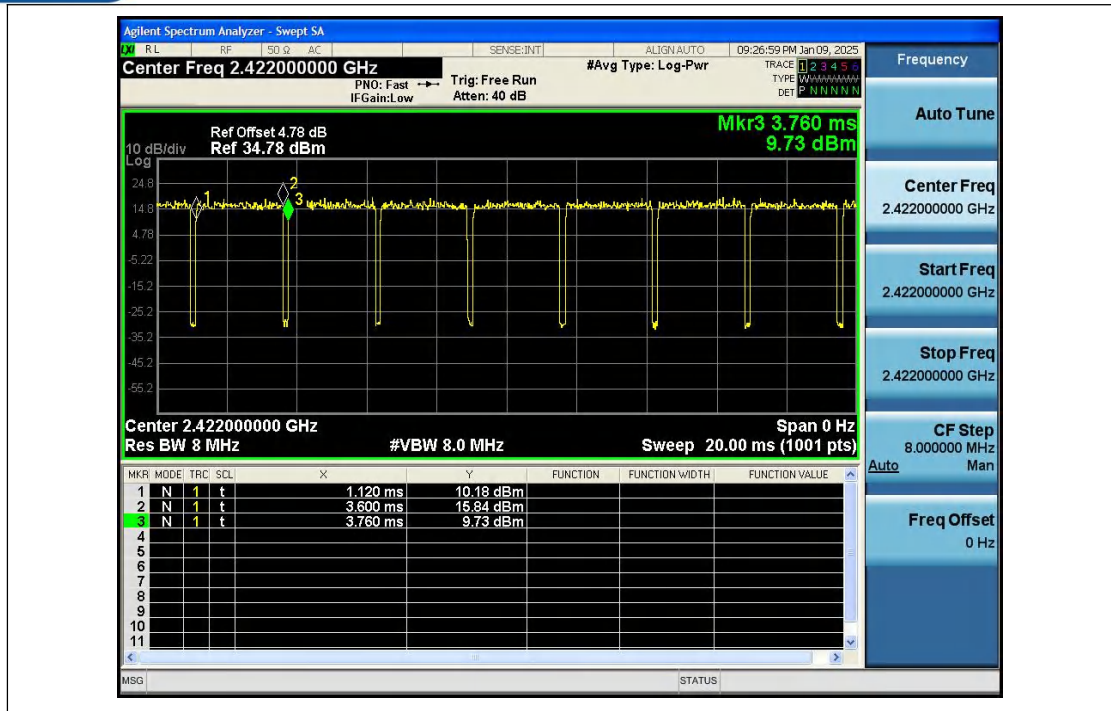
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



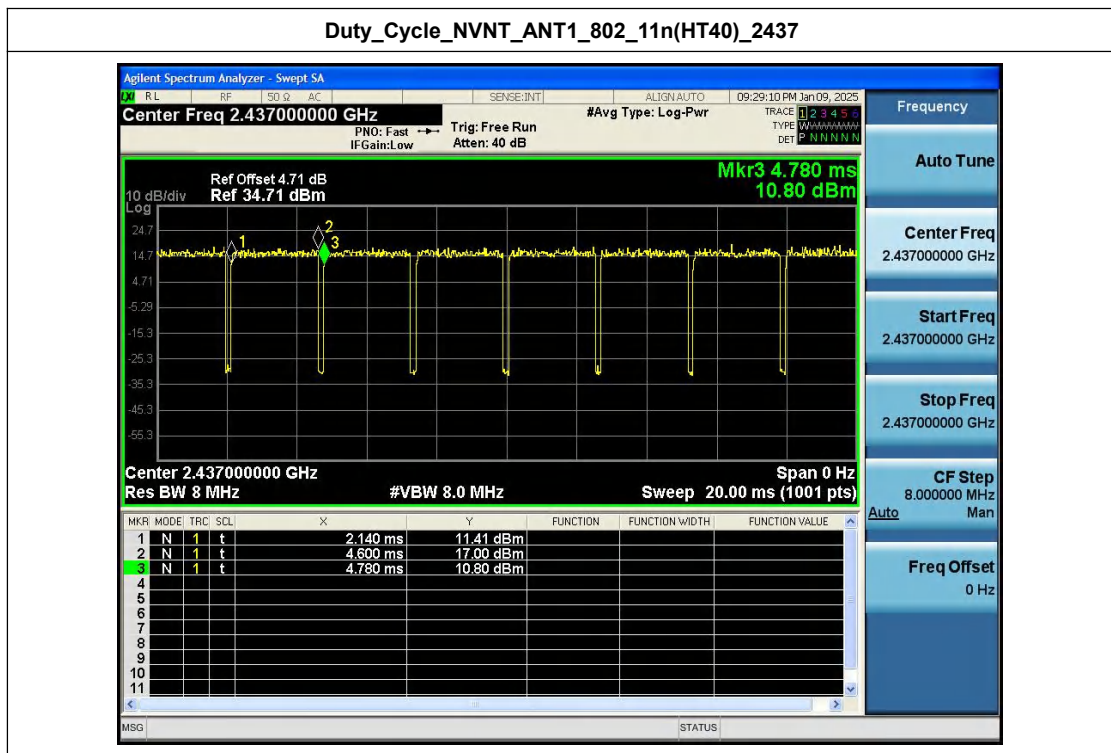
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462



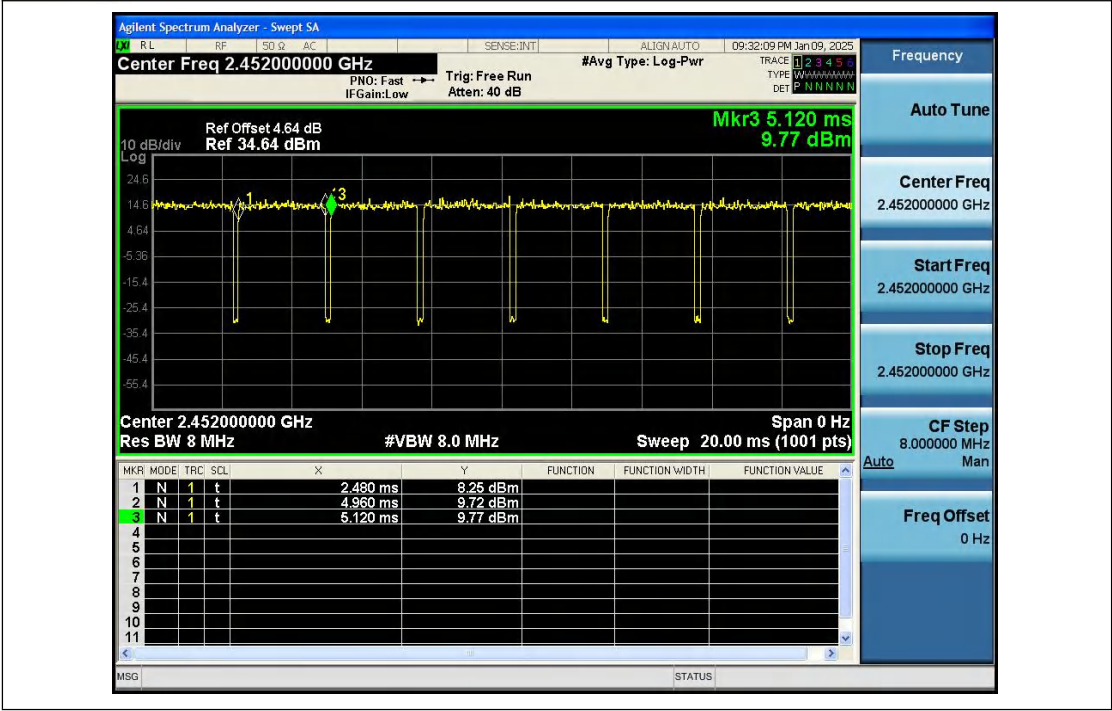
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2422



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2437



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2452



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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	15.38	0.00	15.38	30	Pass
NVNT	ANT1	802.11b	2437.00	RMS	14.59	0.00	14.59	30	Pass
NVNT	ANT1	802.11b	2462.00	RMS	14.07	0.00	14.07	30	Pass
NVNT	ANT1	802.11g	2412.00	RMS	15.11	0.48	15.59	30	Pass
NVNT	ANT1	802.11g	2437.00	RMS	14.55	0.48	15.03	30	Pass
NVNT	ANT1	802.11g	2462.00	RMS	14.50	0.48	14.98	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	RMS	15.94	0.13	16.07	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	RMS	15.17	0.13	15.30	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	RMS	14.10	0.12	14.22	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	RMS	15.13	0.24	15.37	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	RMS	14.68	0.27	14.95	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	RMS	13.49	0.24	13.73	30	Pass

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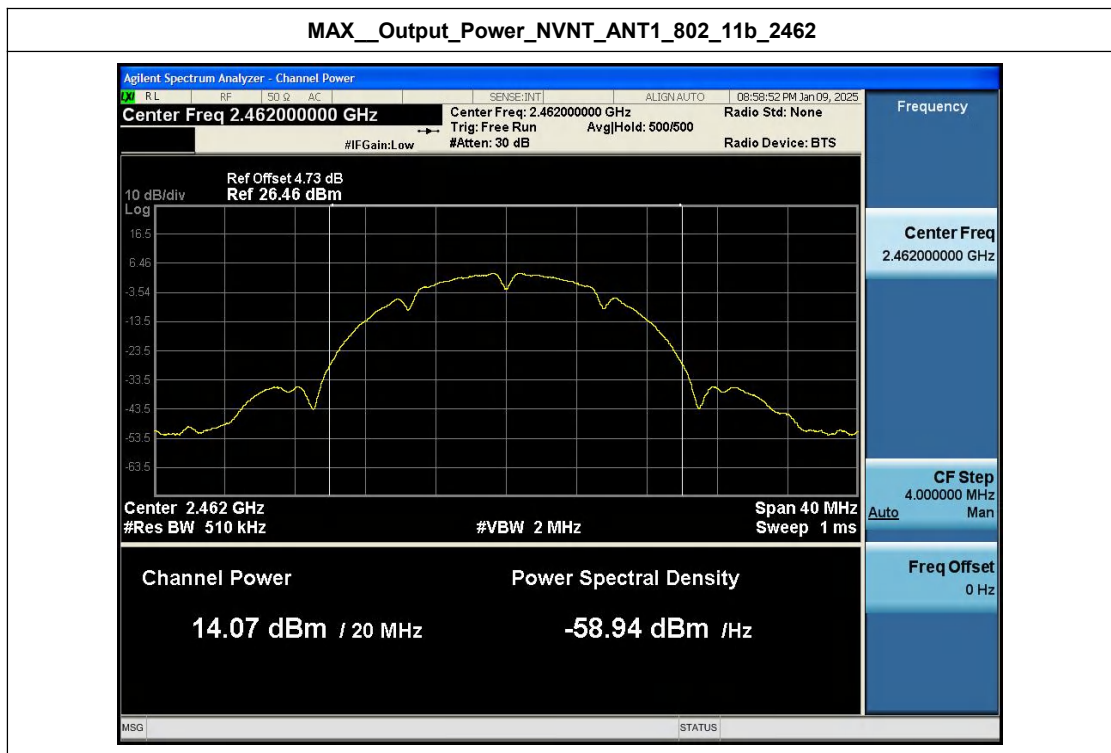
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Tel: (86)0755-26066440 Email: service@anbotek.com



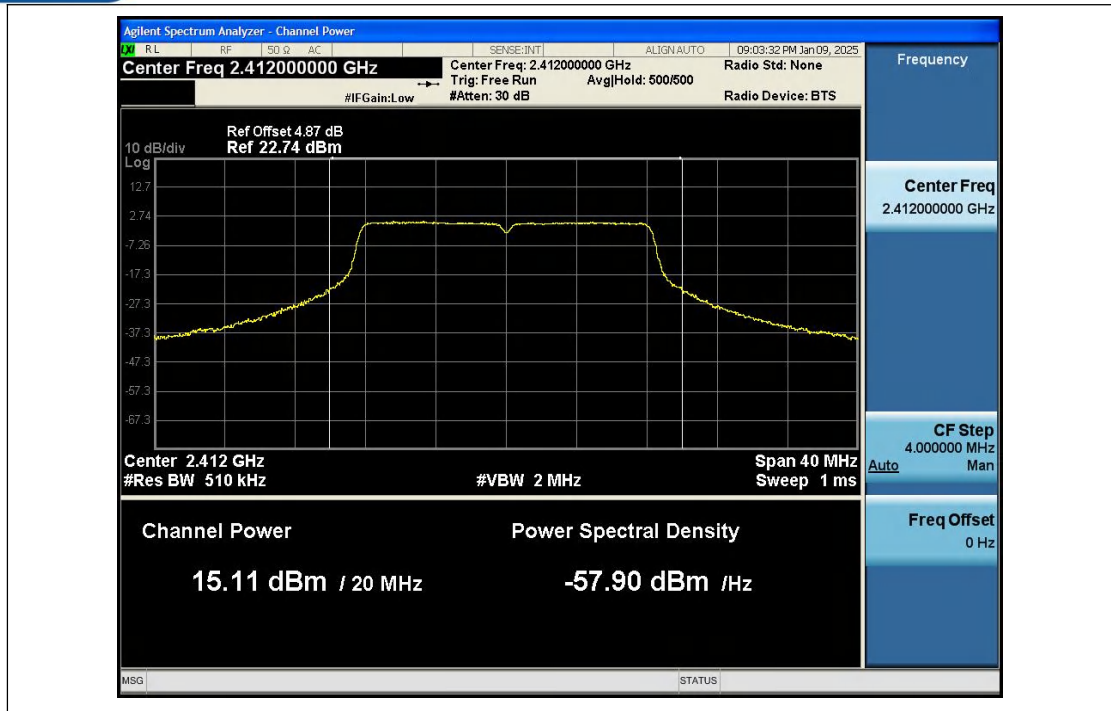
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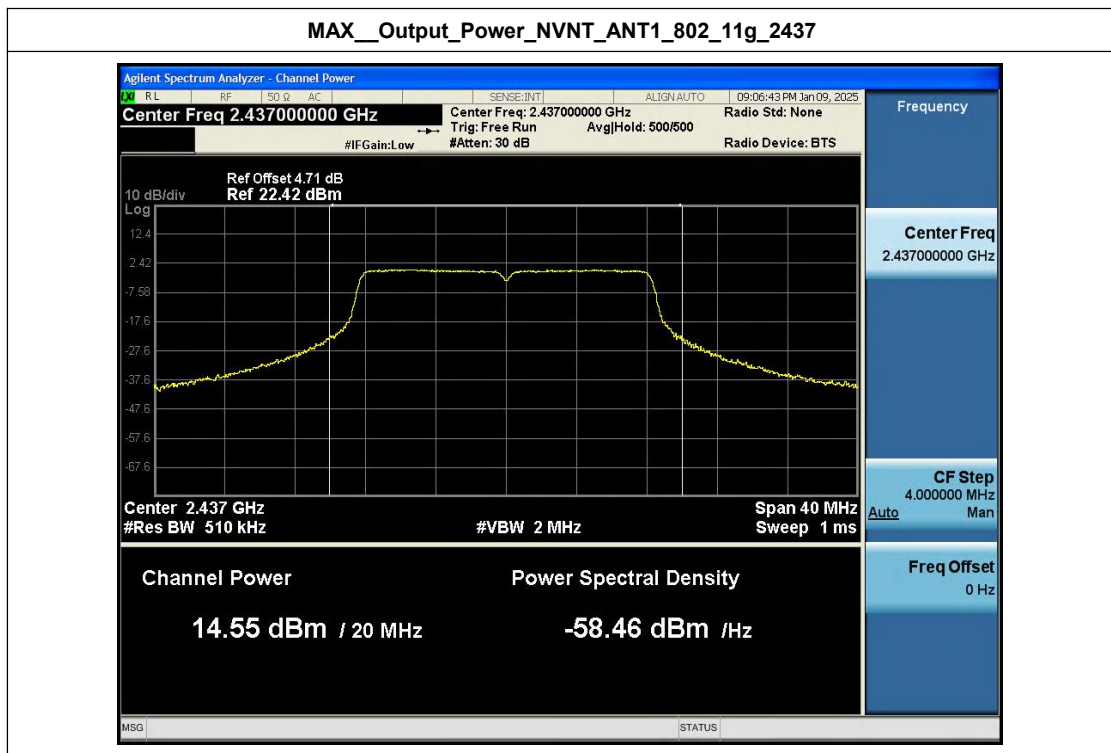
MAX__Output_Power_NVNT_ANT1_802_11b_2462



MAX__Output_Power_NVNT_ANT1_802_11g_2412

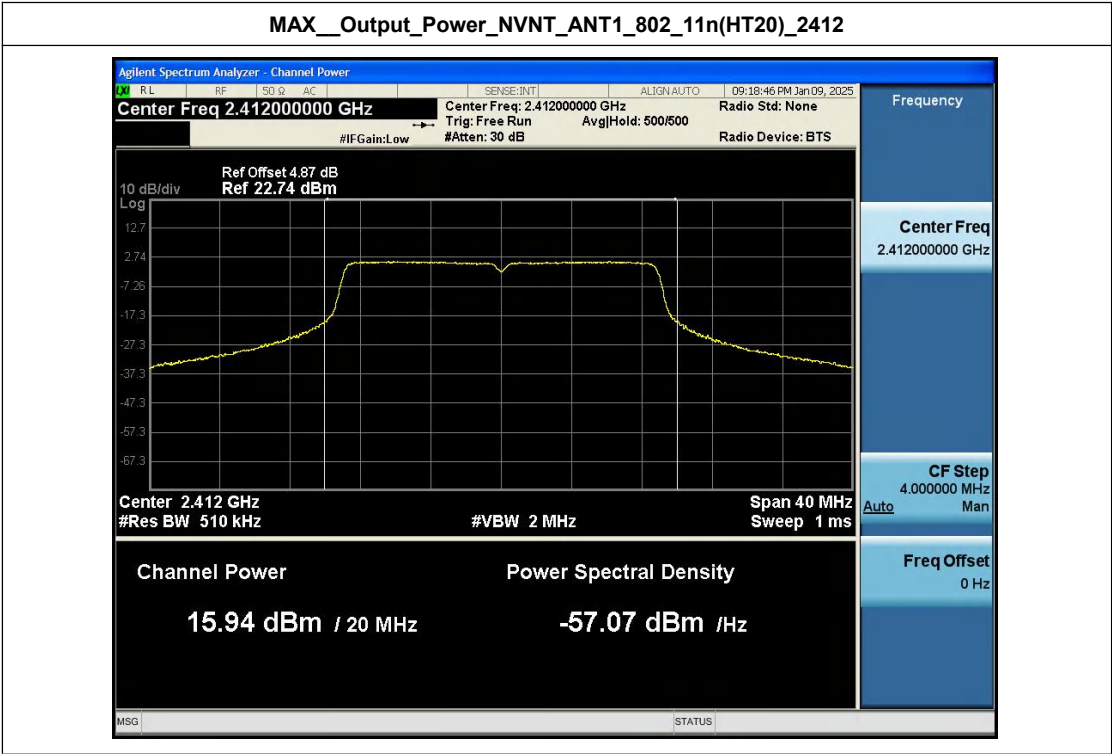
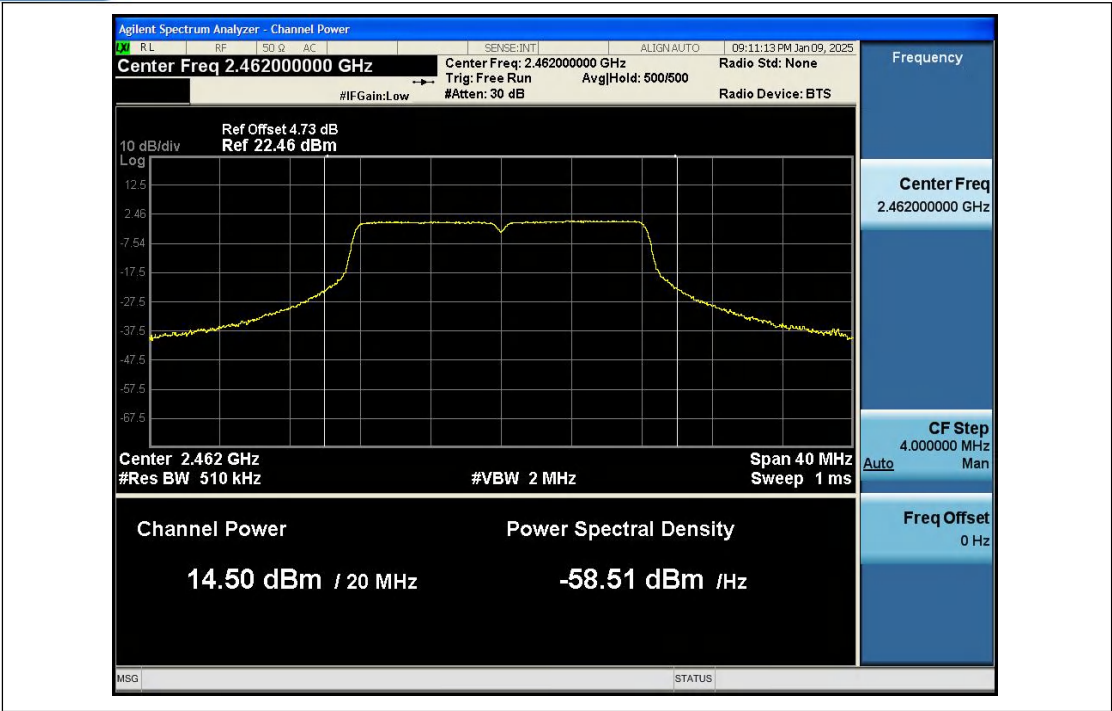


MAX__Output_Power_NVNT_ANT1_802_11g_2437

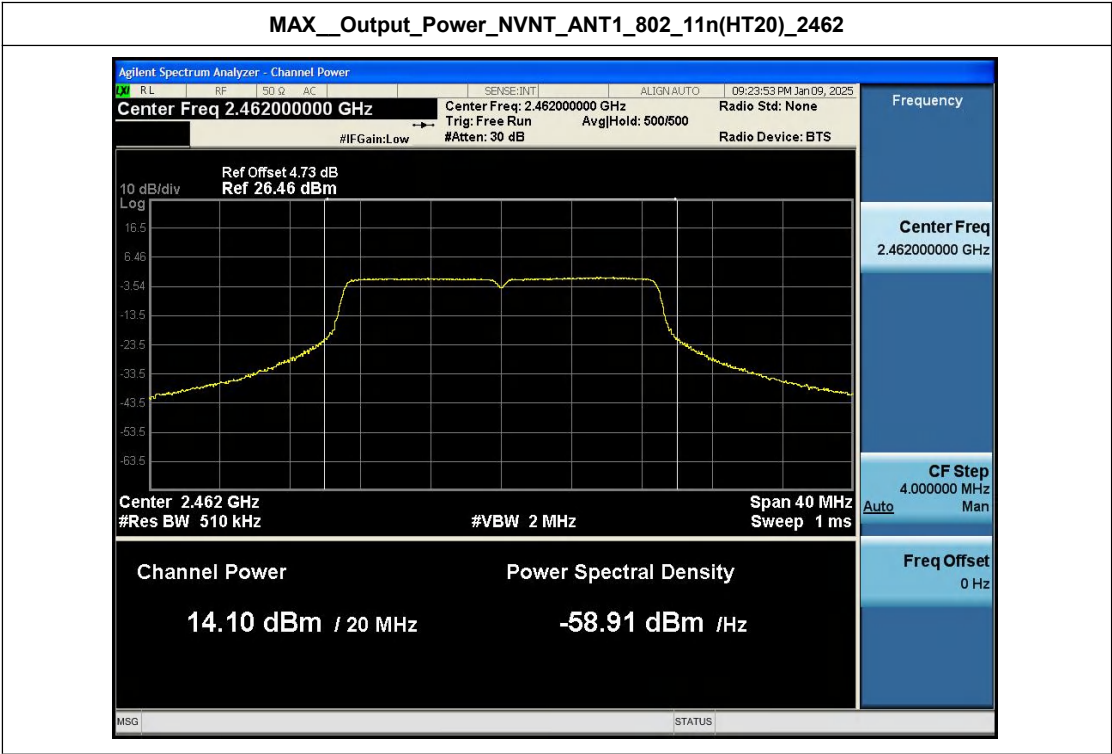
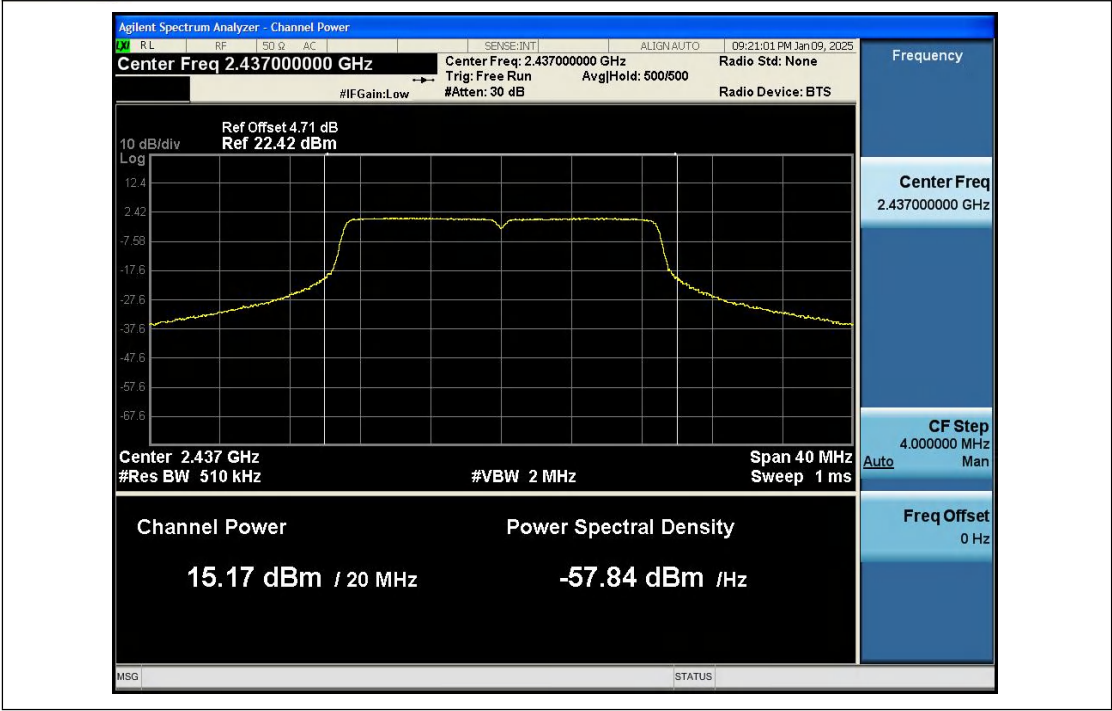


MAX__Output_Power_NVNT_ANT1_802_11g_2462





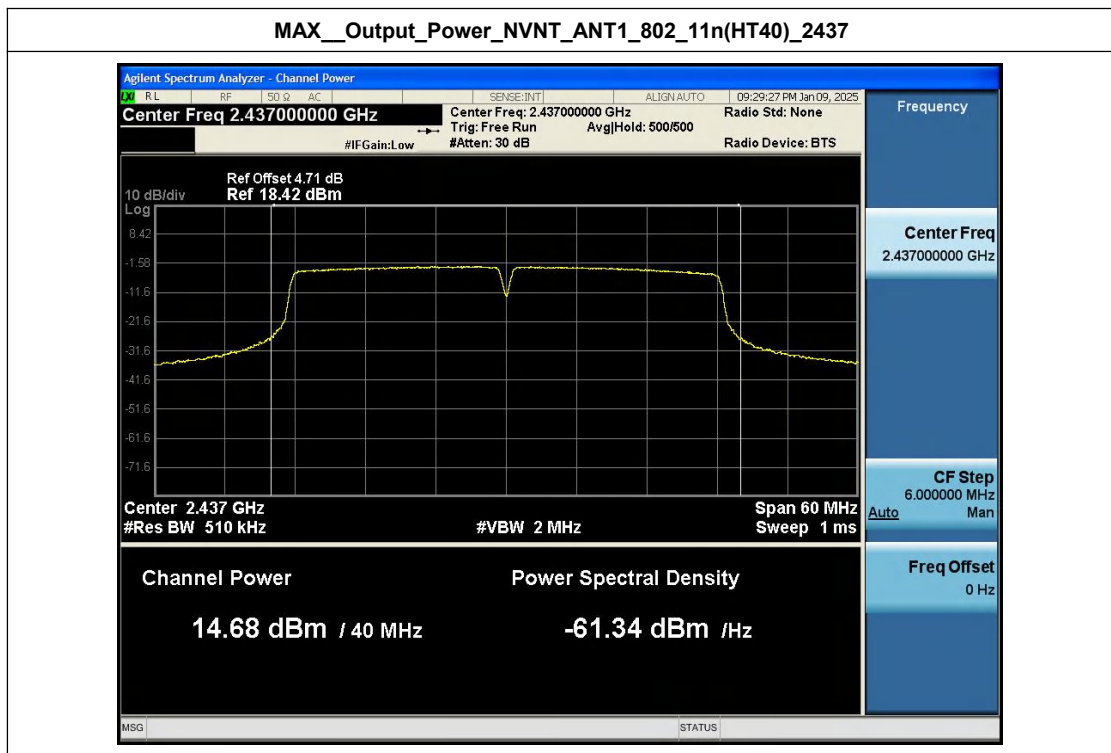
MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2437



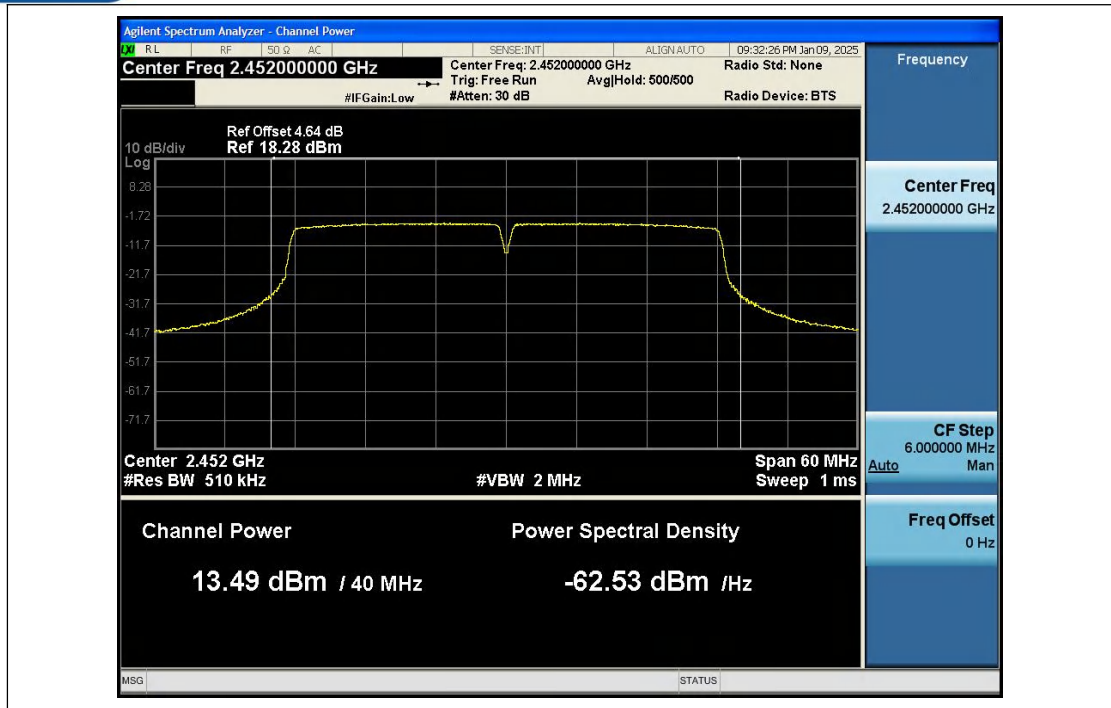
MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2422



MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2437



MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2452



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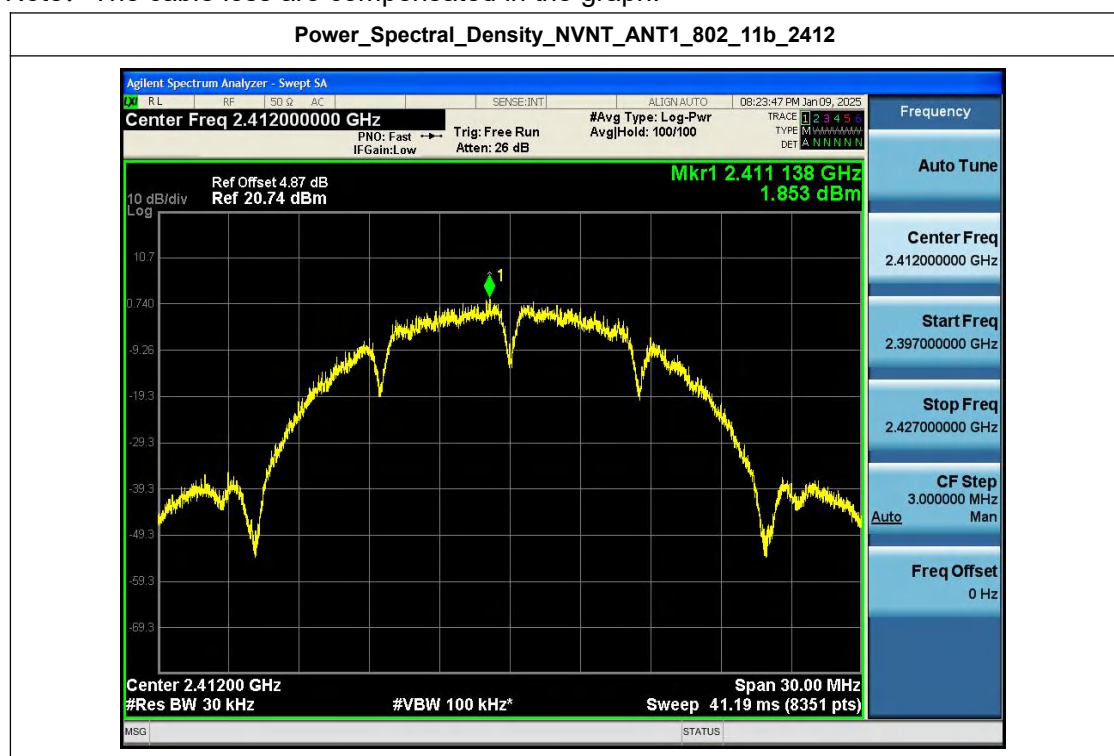


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Appendix E: Power Spectral Density

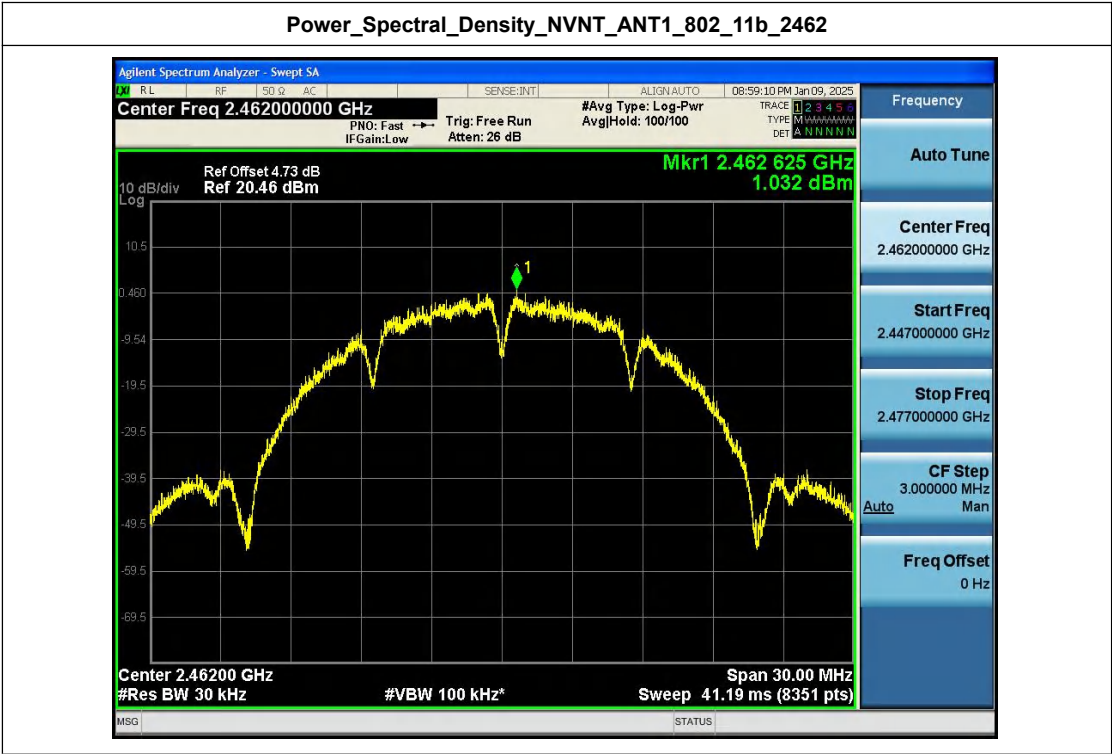
Condi tion	Anten na	Modulatio n	Frequen cy (MHz)	SA_PSD(dBm/3 0kHz)	Duty factor(d B)	RB factor(d B)	PSD(dBm/3 kHz)	limit(dBm/3 kHz)	Res ult
NVNT	ANT1	802.11b	2412.00	1.85	0.00	-10.00	-8.15	8	Pass
NVNT	ANT1	802.11b	2437.00	0.61	0.00	-10.00	-9.39	8	Pass
NVNT	ANT1	802.11b	2462.00	1.03	0.00	-10.00	-8.97	8	Pass
NVNT	ANT1	802.11g	2412.00	-0.10	0.48	-10.00	-9.62	8	Pass
NVNT	ANT1	802.11g	2437.00	-2.03	0.48	-10.00	-11.55	8	Pass
NVNT	ANT1	802.11g	2462.00	-1.68	0.48	-10.00	-11.20	8	Pass
NVNT	ANT1	802.11n(HT 20)	2412.00	-0.70	0.13	-10.00	-10.57	8	Pass
NVNT	ANT1	802.11n(HT 20)	2437.00	-1.22	0.13	-10.00	-11.09	8	Pass
NVNT	ANT1	802.11n(HT 20)	2462.00	-1.97	0.12	-10.00	-11.85	8	Pass
NVNT	ANT1	802.11n(HT 40)	2422.00	-4.04	0.24	-10.00	-13.80	8	Pass
NVNT	ANT1	802.11n(HT 40)	2437.00	-4.67	0.27	-10.00	-14.40	8	Pass
NVNT	ANT1	802.11n(HT 40)	2452.00	-5.73	0.24	-10.00	-15.49	8	Pass

Note: The cable loss are compensated in the graph.



Power_Spectral_Density_NVNT_ANT1_802_11b_2437

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Power_Spectral_Density_NVNT_ANT1_802_11g_2412