

Appendix Test Data

Report No.:	1812C50293212502	Test Sample No.:	1-2-2
Start Test Date:	2025.6.19	Finish Test Date:	2025.7.25
Test Engineer:	<i>Liangfei Yang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	23.5℃	Relative Humidity:	45%
Pressure:	101kPa		

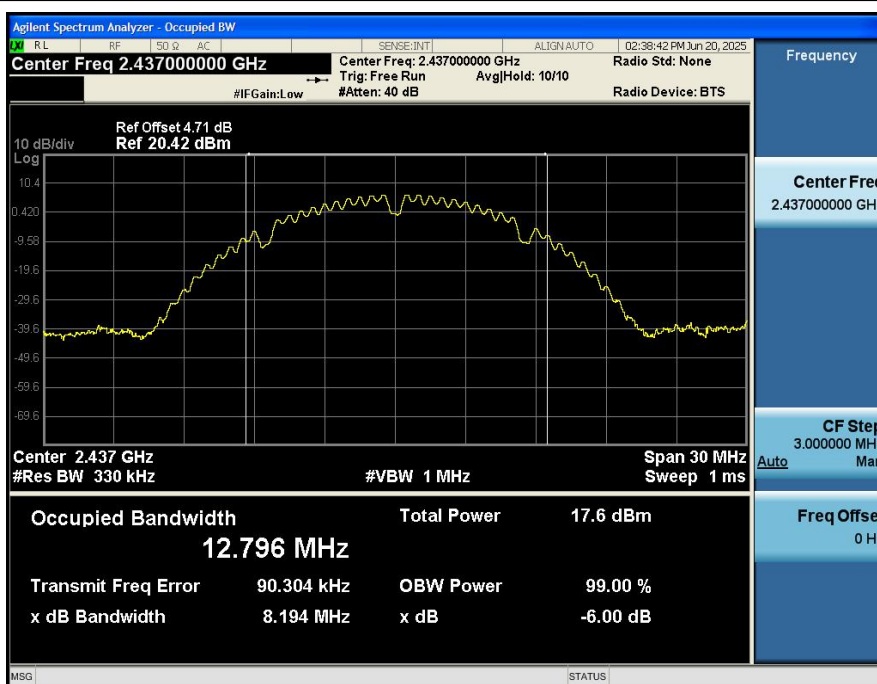
Appendix A: -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	8.67	500	Pass
NVNT	ANT1	802.11b	2437.00	8.19	500	Pass
NVNT	ANT1	802.11b	2462.00	8.21	500	Pass
NVNT	ANT1	802.11g	2412.00	16.34	500	Pass
NVNT	ANT1	802.11g	2437.00	16.10	500	Pass
NVNT	ANT1	802.11g	2462.00	16.24	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.62	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.27	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.42	500	Pass

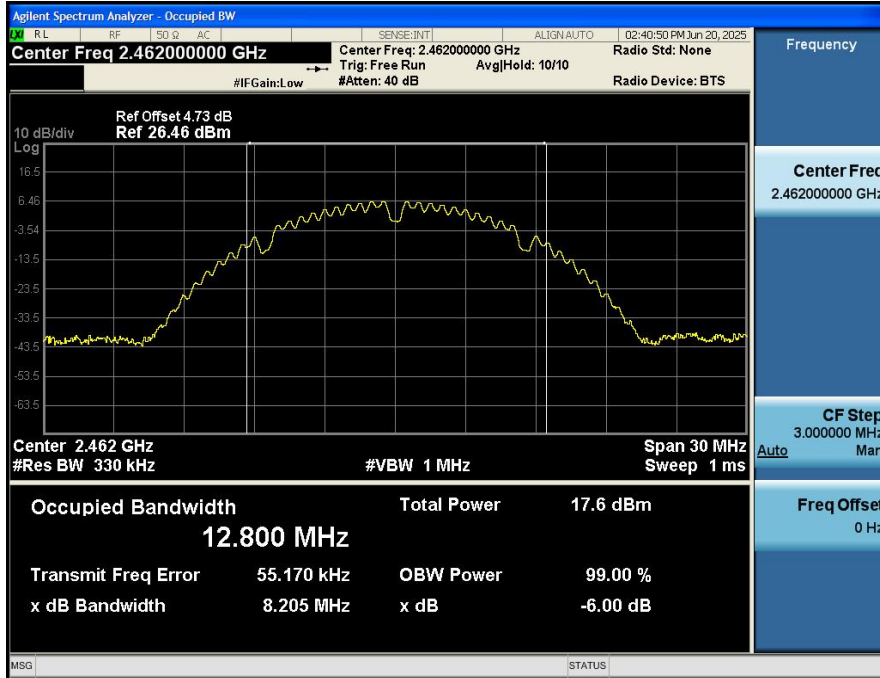
-6dB_Bandwidth_NVNT_ANT1_802_11b_2412



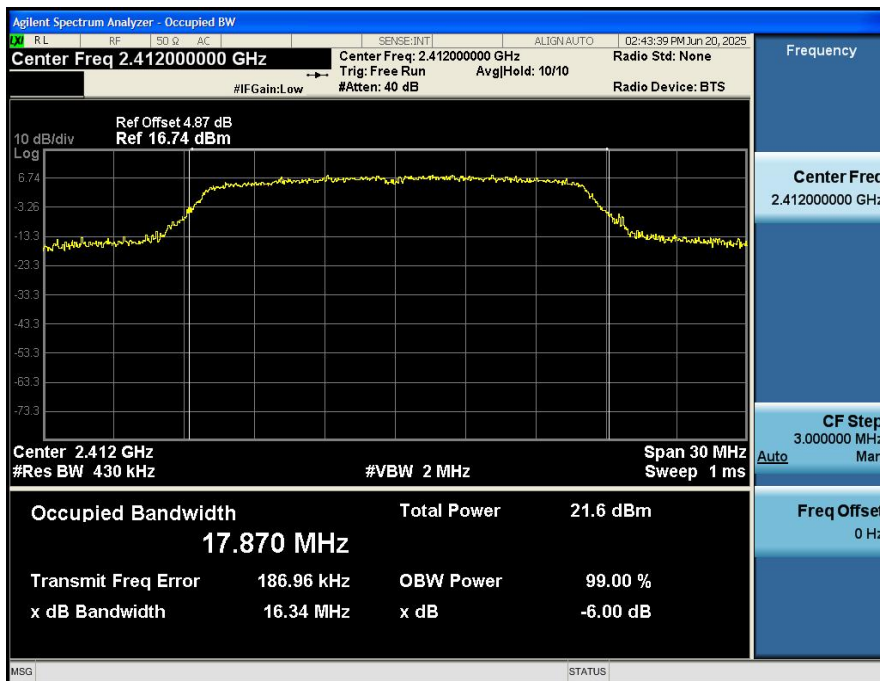
-6dB Bandwidth NVNT ANT1 802 11b 2437



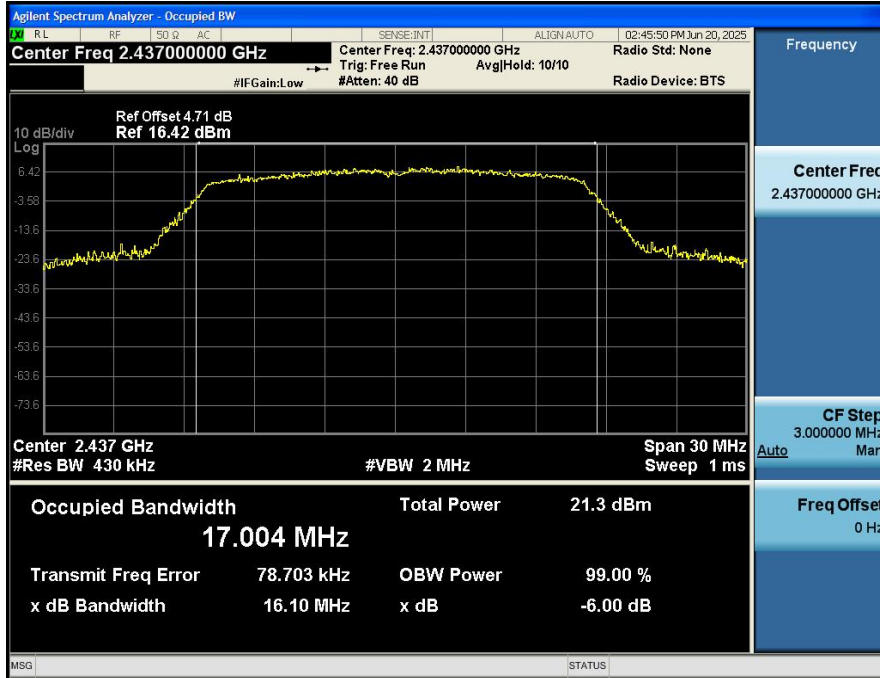
-6dB Bandwidth NVNT ANT1 802 11b 2462



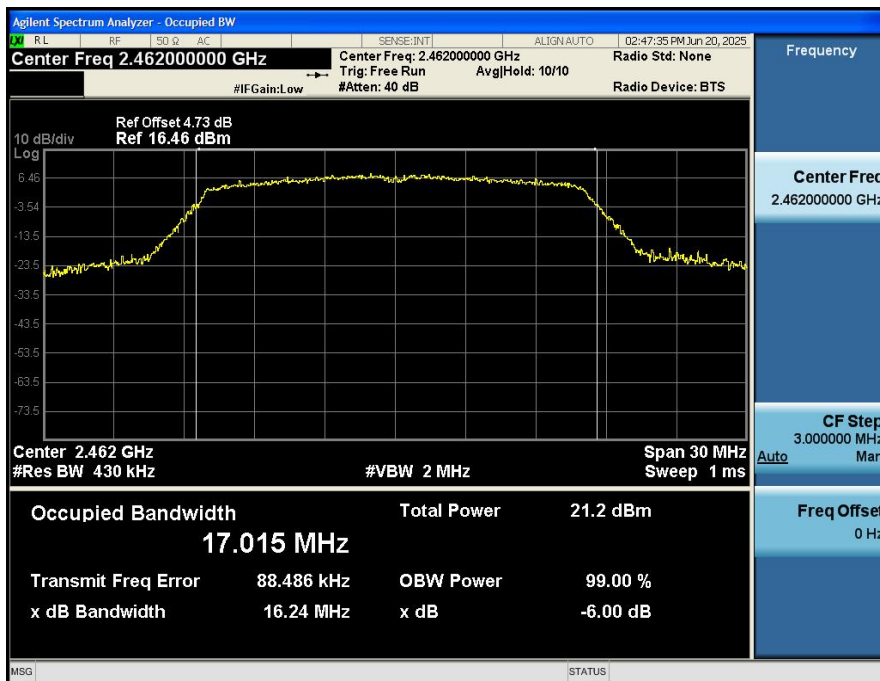
-6dB_Bandwidth_NVNT_ANT1_802_11g_2412



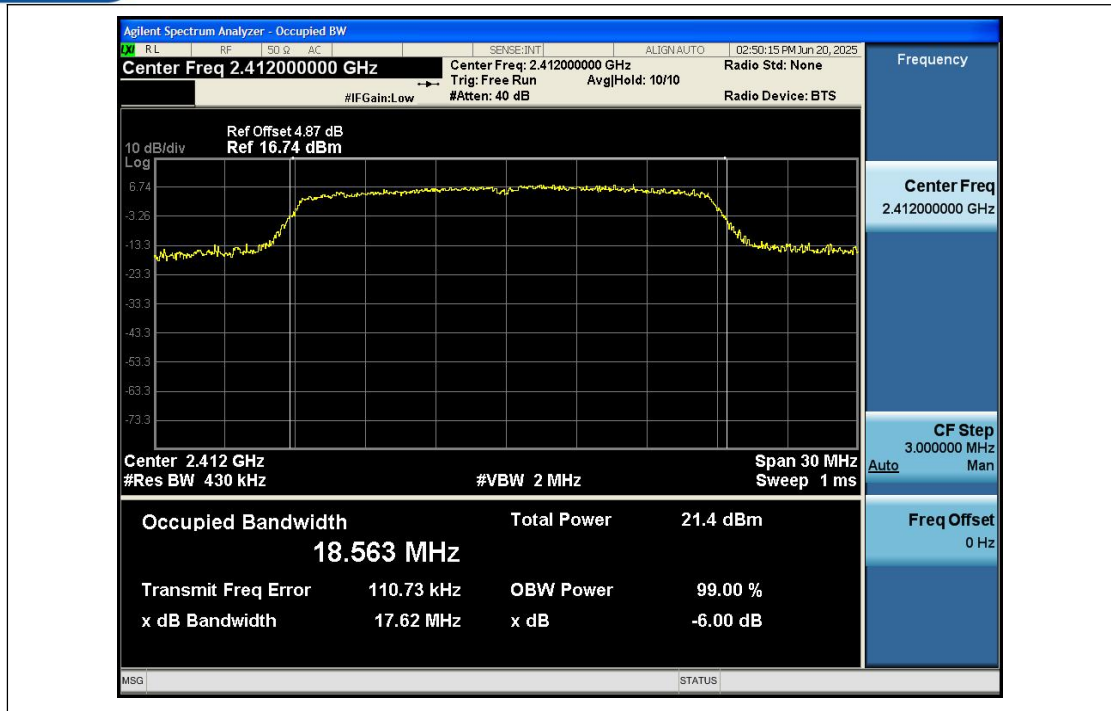
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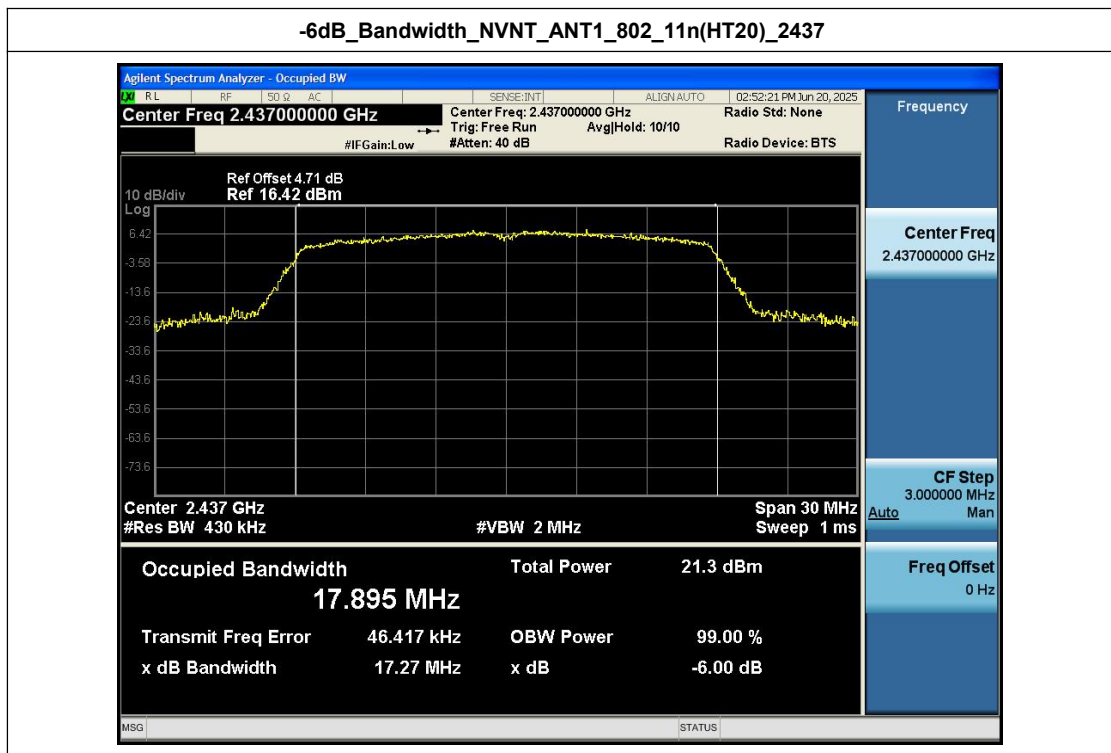
-6dB_Bandwidth_NVNT_ANT1_802_11g_2462



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412

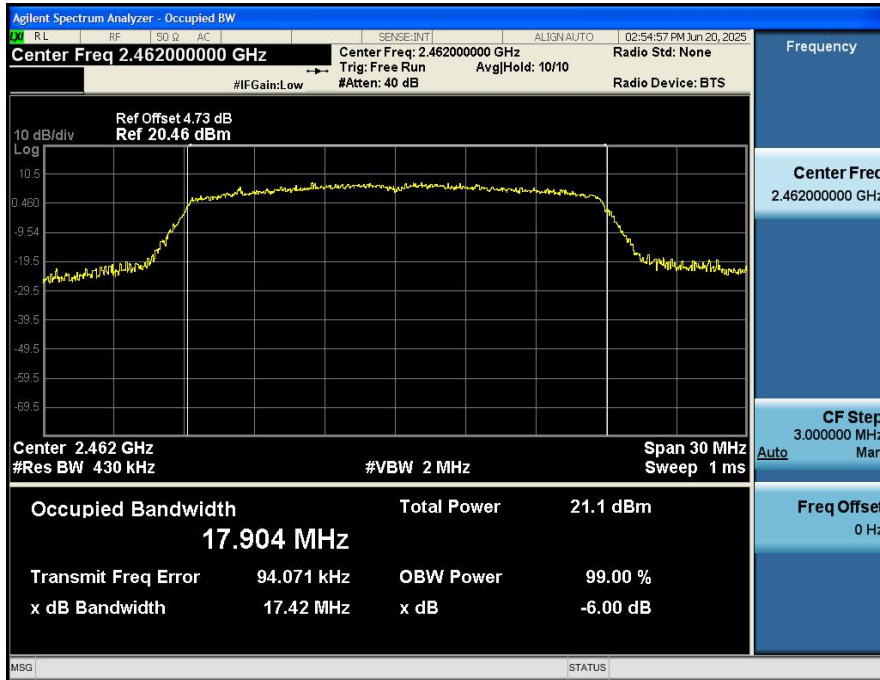


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462





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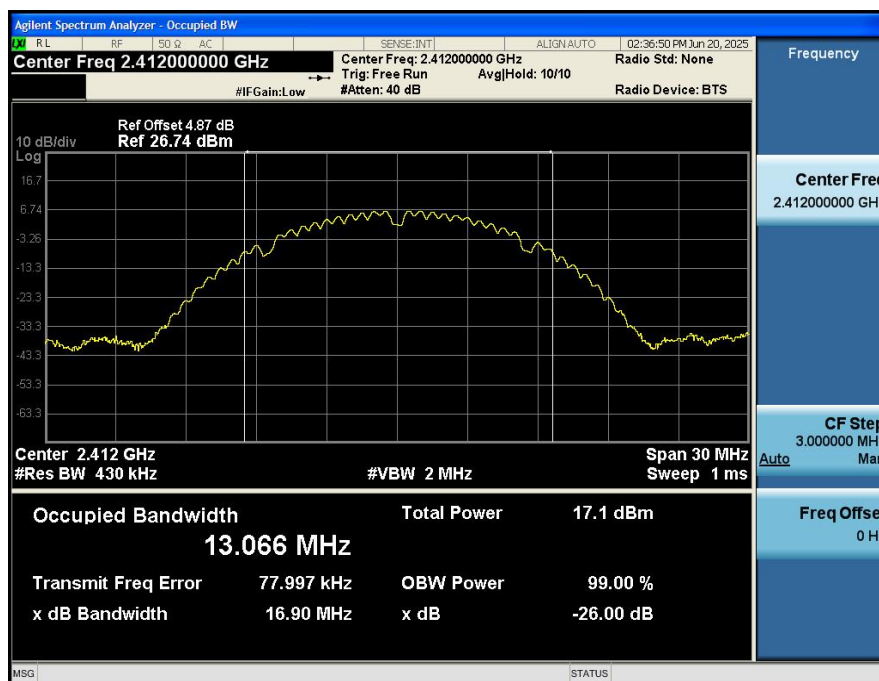


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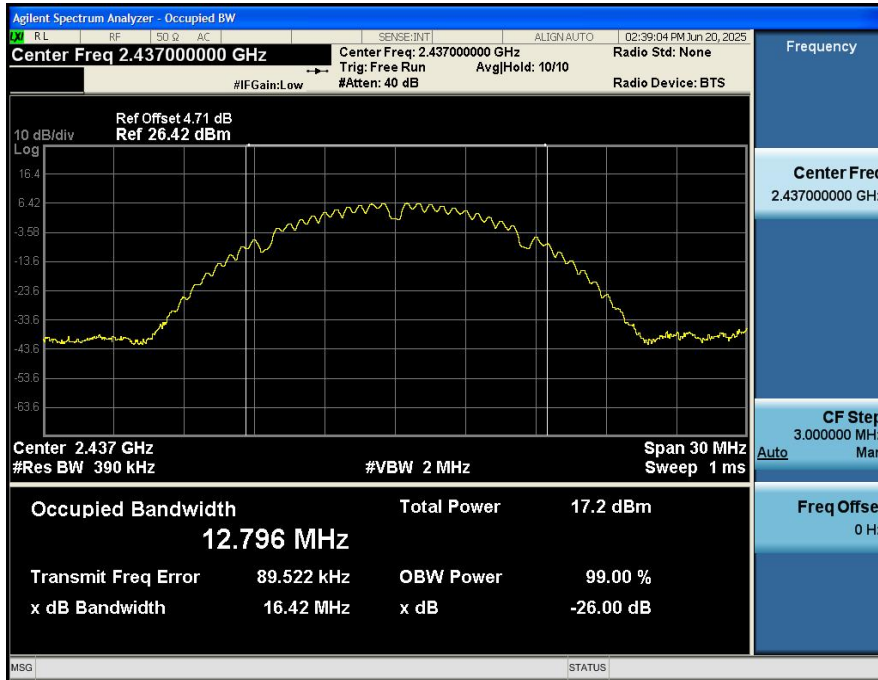
Appendix B: 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	13.066
NVNT	ANT1	802.11b	2437.00	12.796
NVNT	ANT1	802.11b	2462.00	12.803
NVNT	ANT1	802.11g	2412.00	18.199
NVNT	ANT1	802.11g	2437.00	17.153
NVNT	ANT1	802.11g	2462.00	17.180
NVNT	ANT1	802.11n(HT20)	2412.00	18.845
NVNT	ANT1	802.11n(HT20)	2437.00	18.073
NVNT	ANT1	802.11n(HT20)	2462.00	18.023

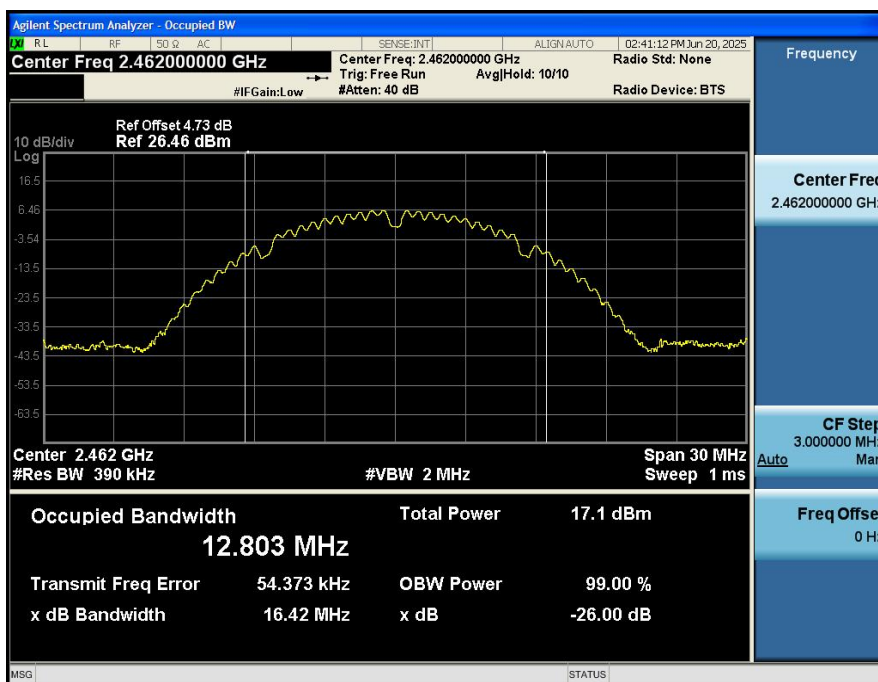
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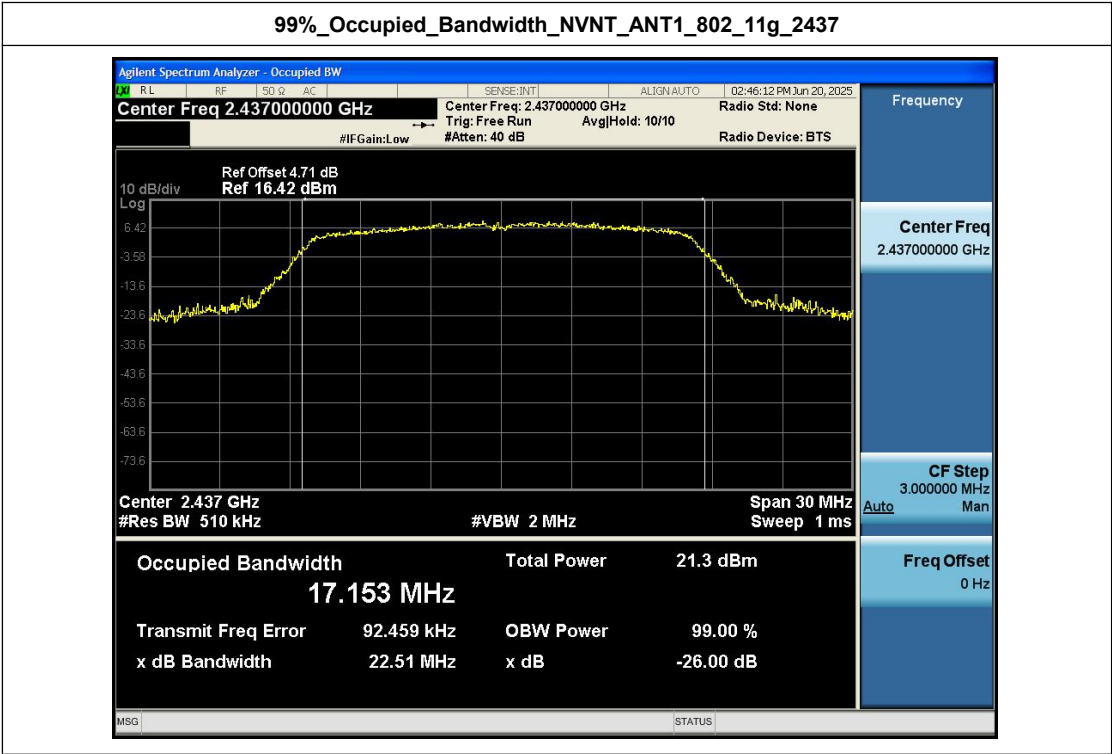
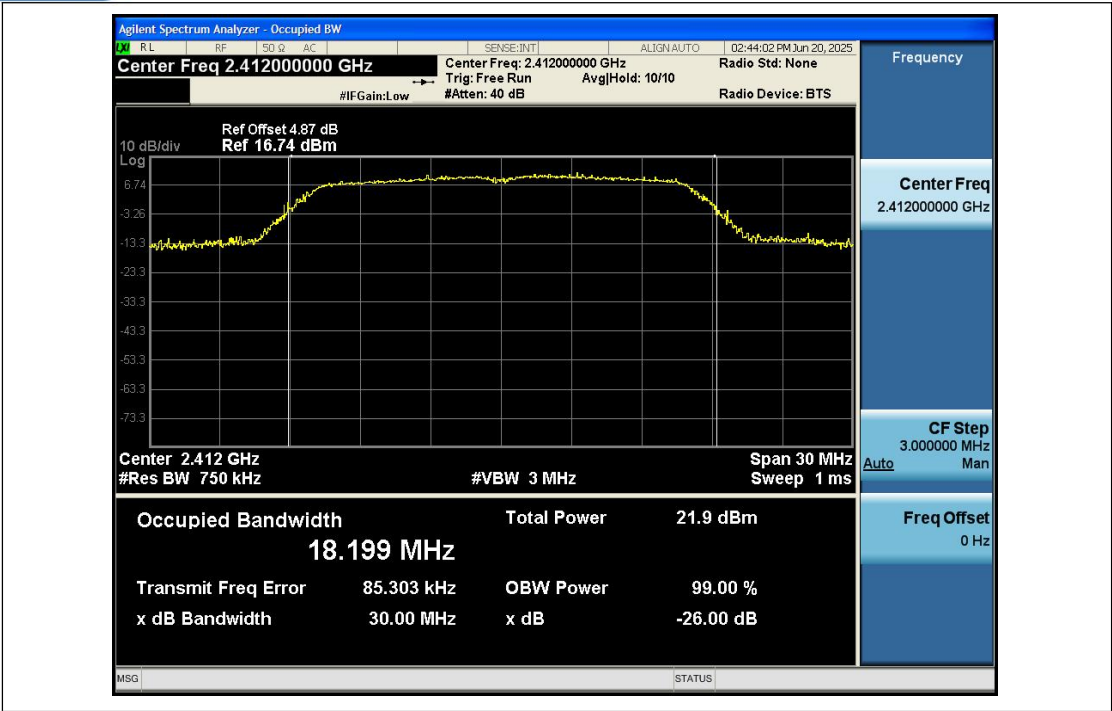
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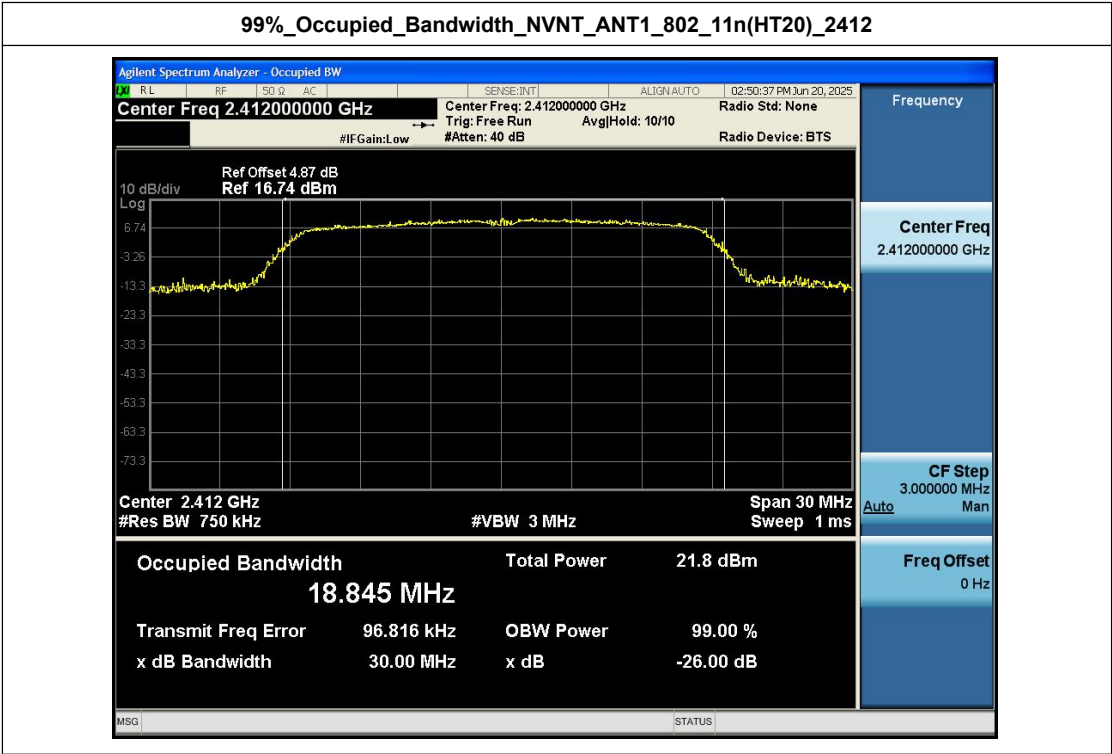
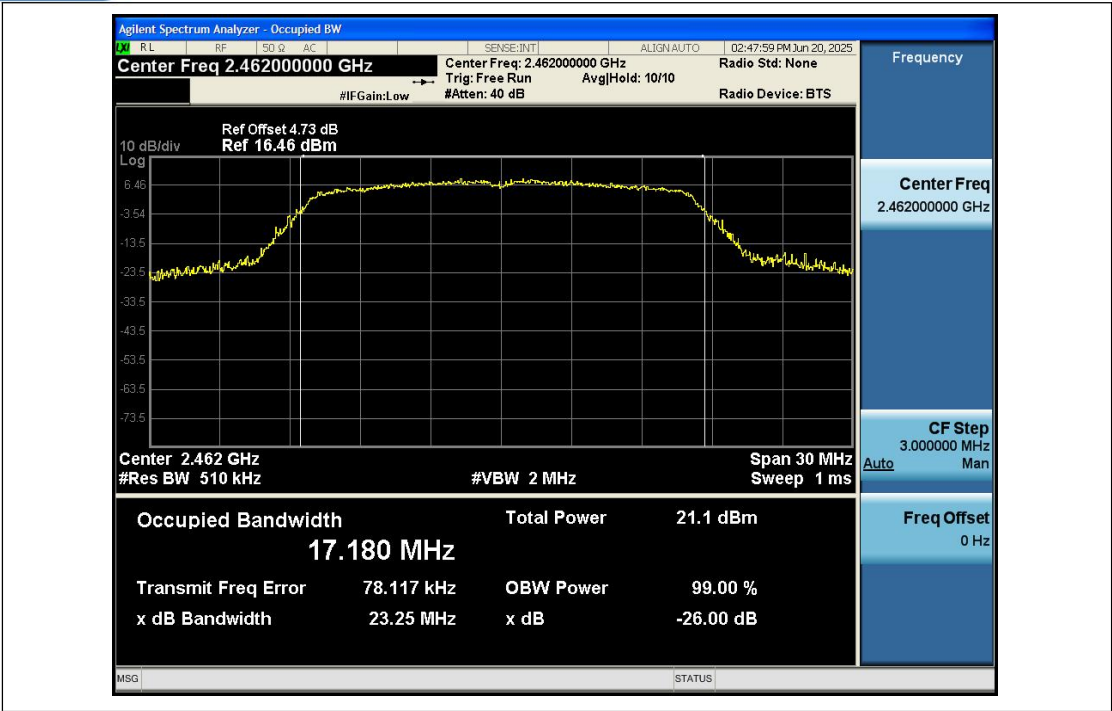
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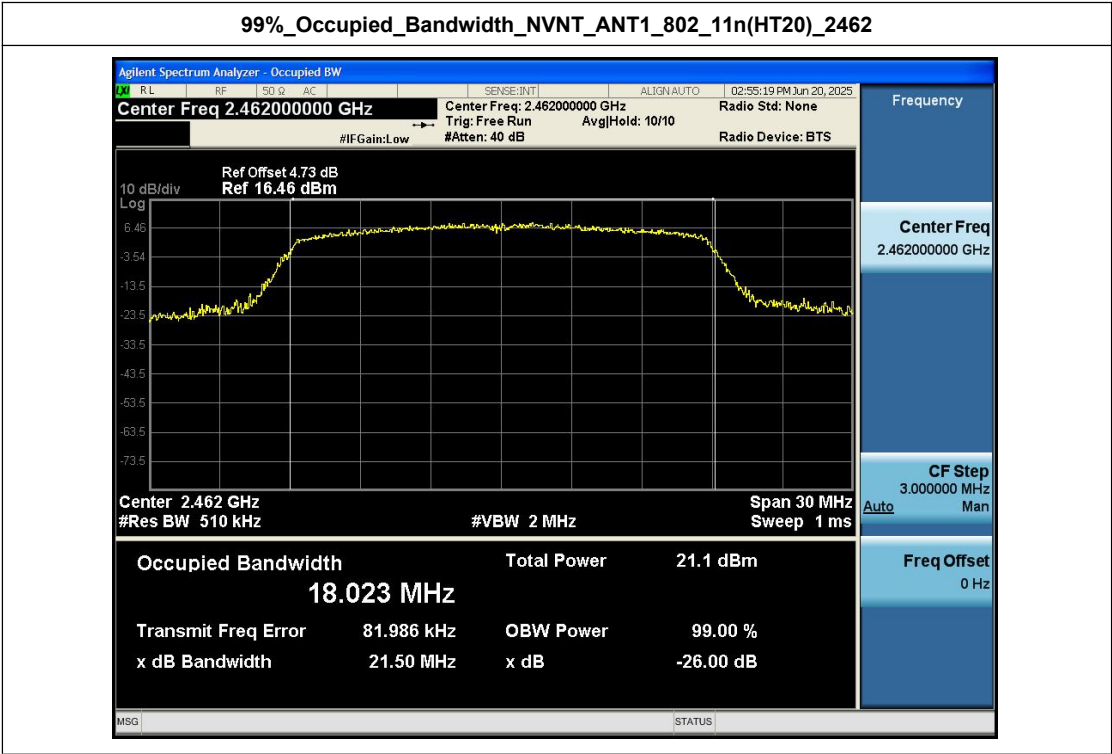
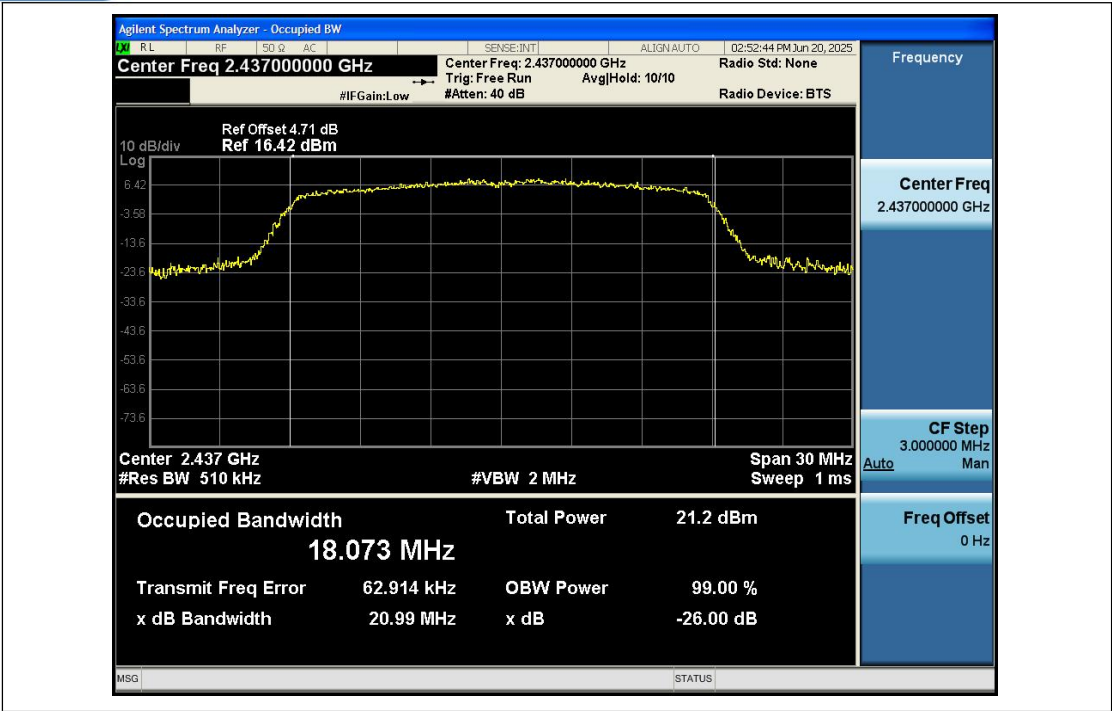
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2412



99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2462



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437

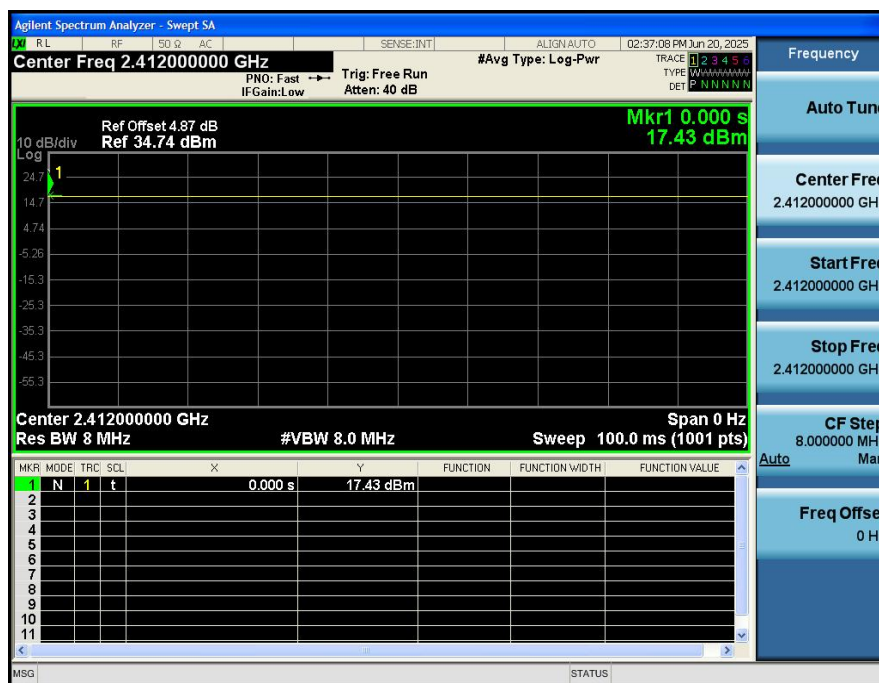


Appendix C: Duty Cycle

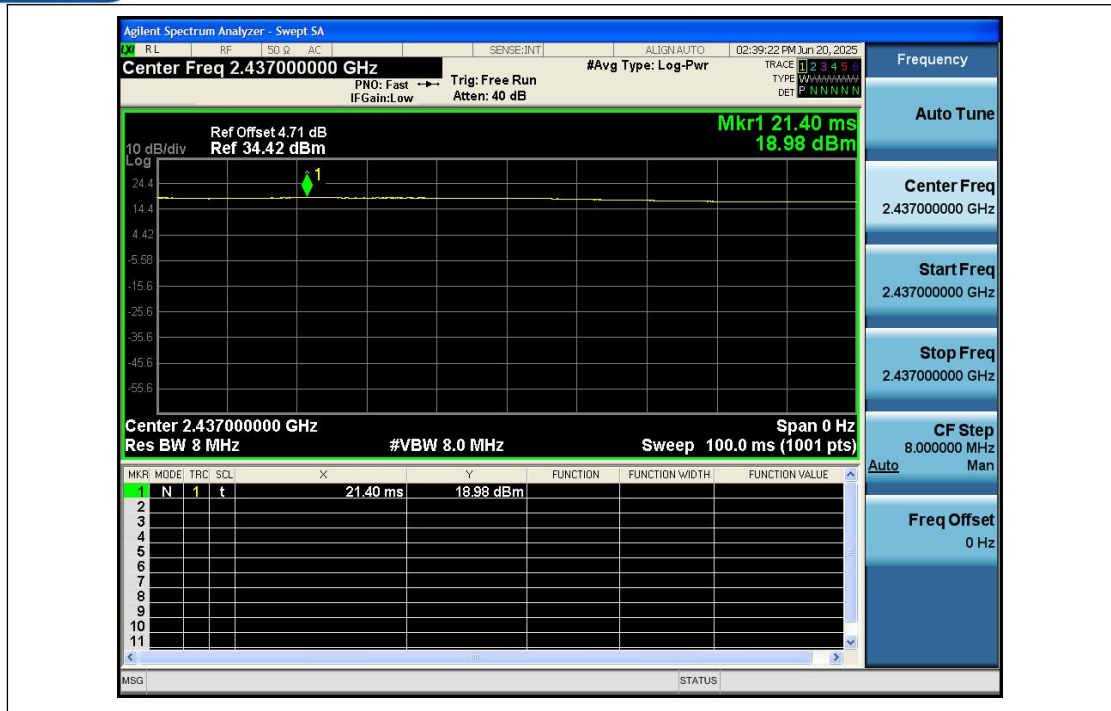
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	100	0.00
NVNT	ANT1	802.11b	2437.00	100	0.00
NVNT	ANT1	802.11b	2462.00	100	0.00
NVNT	ANT1	802.11g	2412.00	100	0.00
NVNT	ANT1	802.11g	2437.00	100	0.00
NVNT	ANT1	802.11g	2462.00	100	0.00
NVNT	ANT1	802.11n(HT20)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

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

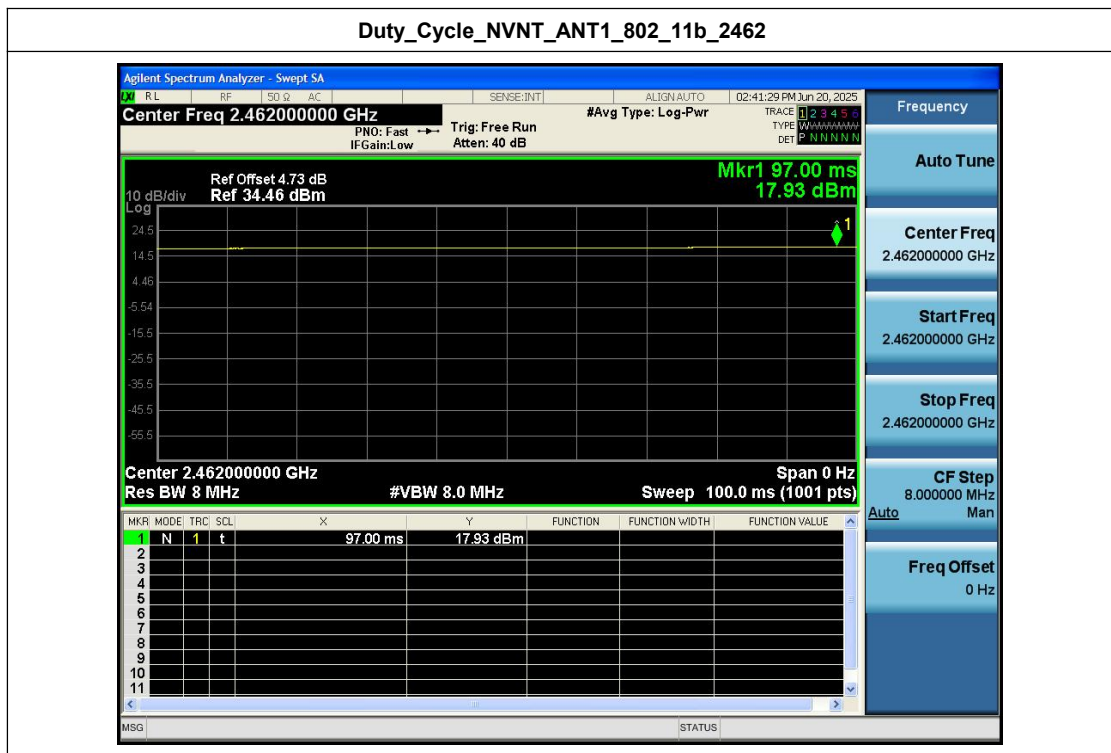
Duty_Cycle_NVNT_ANT1_802_11b_2412



Duty_Cycle_NVNT_ANT1_802_11b_2437



Duty_Cycle_NVNT_ANT1_802_11b_2462

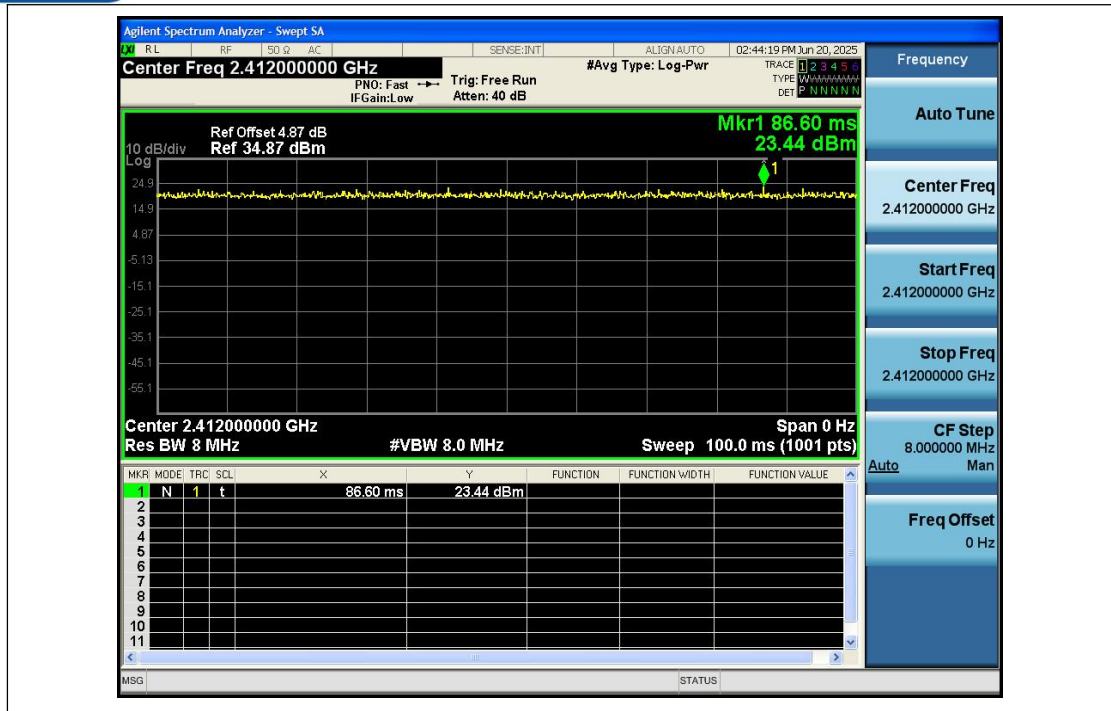


Duty_Cycle_NVNT_ANT1_802_11g_2412

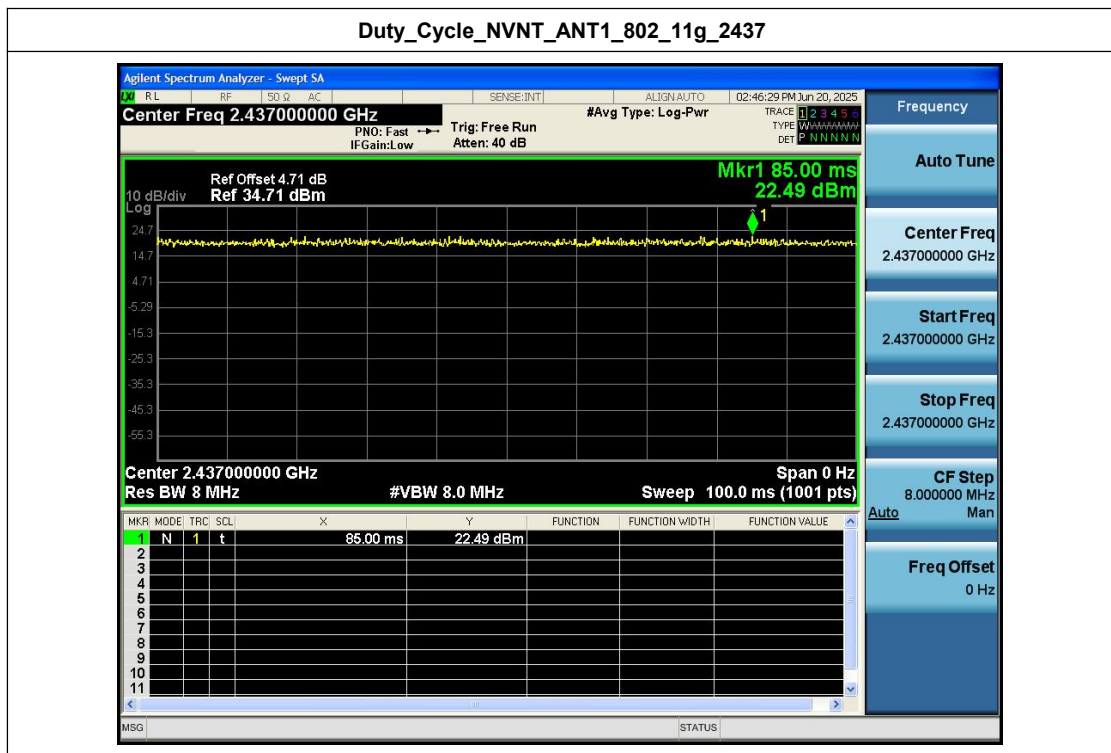
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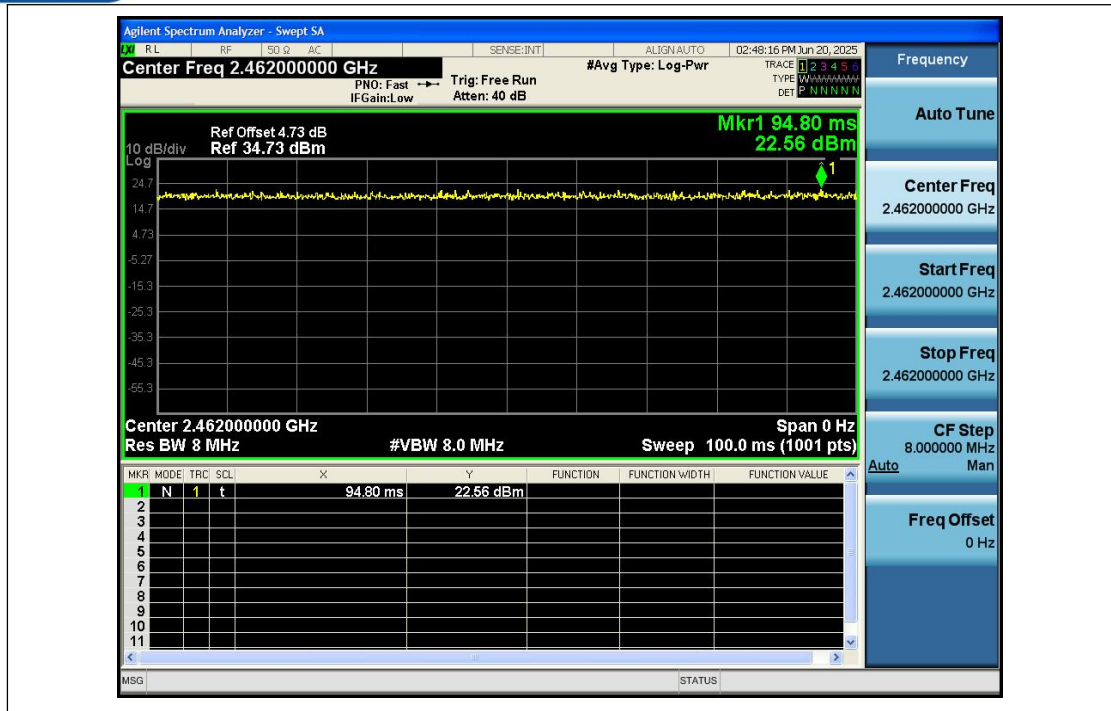
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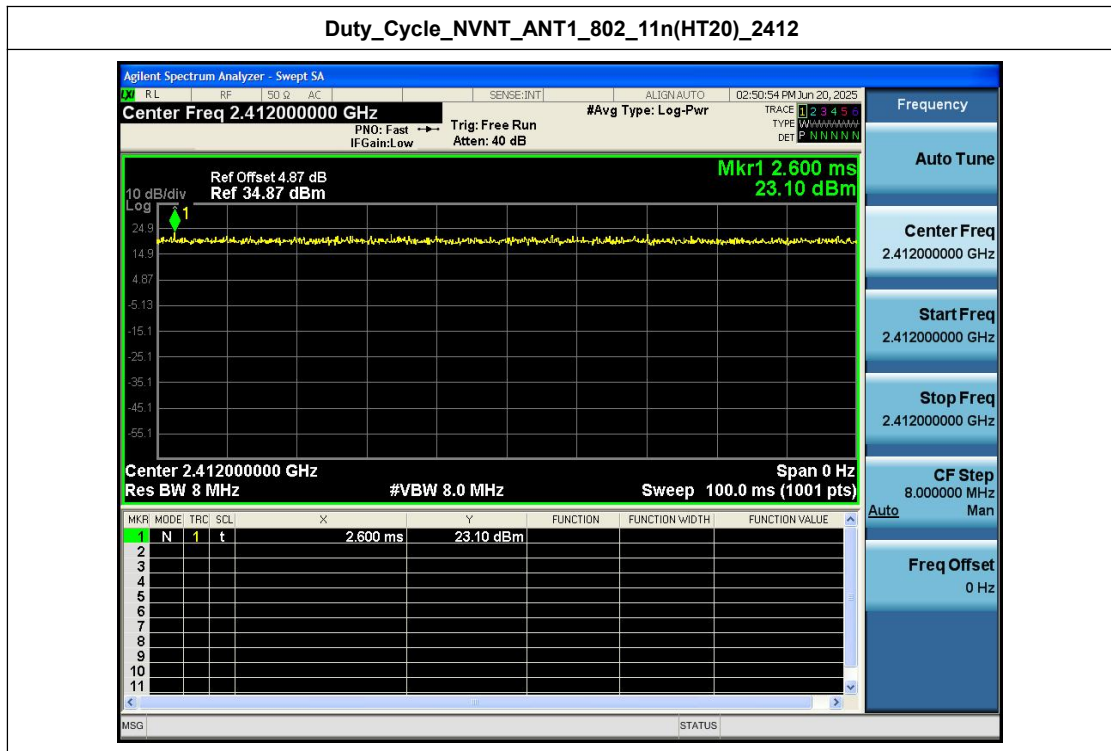
Duty_Cycle_NVNT_ANT1_802_11g_2437



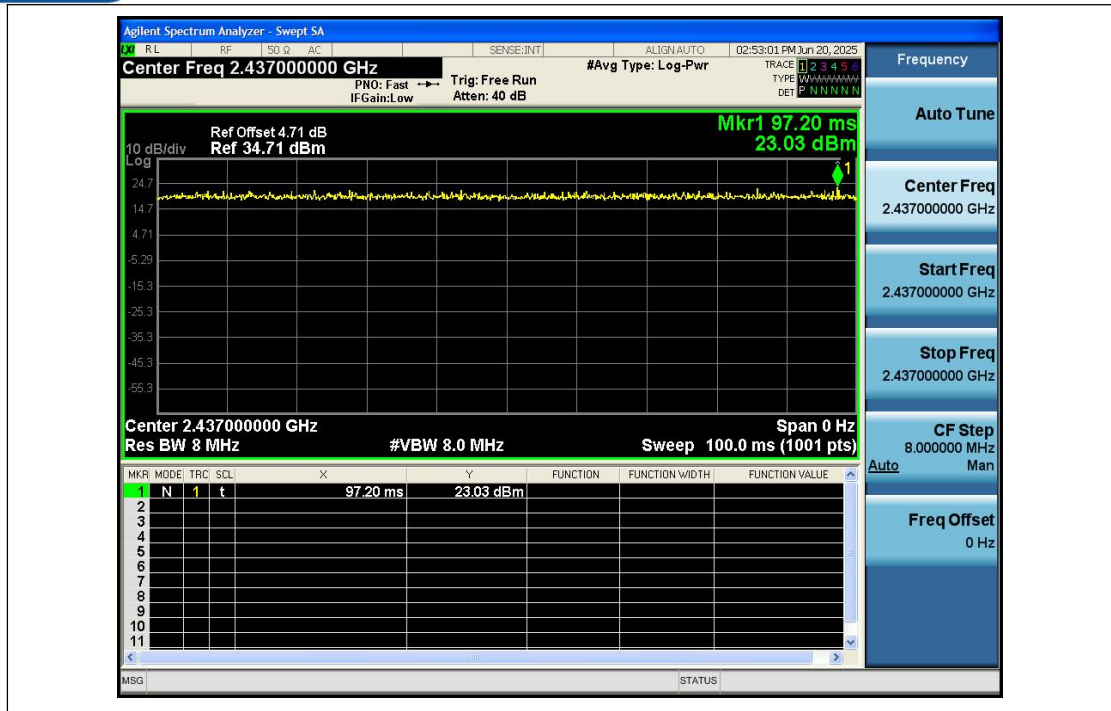
Duty_Cycle_NVNT_ANT1_802_11g_2462



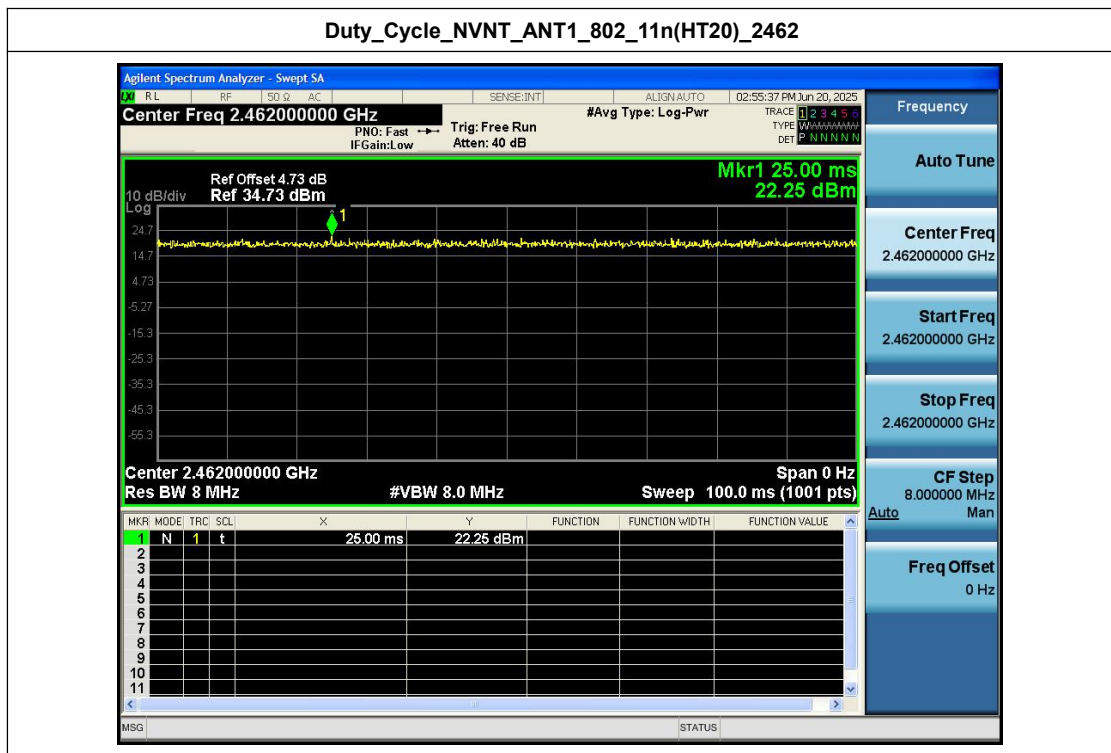
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462



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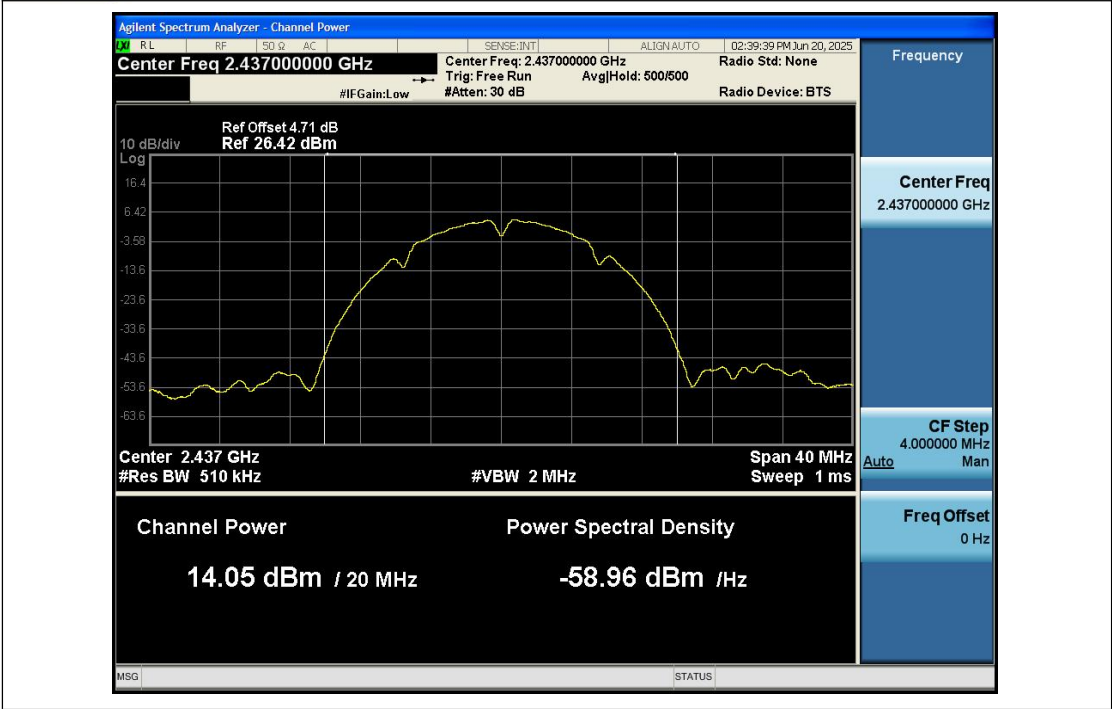
Appendix D: MAX. Output Power

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	14.16	0.00	14.16	30	Pass
NVNT	ANT1	802.11b	2437.00	RMS	14.05	0.00	14.05	30	Pass
NVNT	ANT1	802.11b	2462.00	RMS	14.06	0.00	14.06	30	Pass
NVNT	ANT1	802.11g	2412.00	RMS	14.33	0.00	14.33	30	Pass
NVNT	ANT1	802.11g	2437.00	RMS	14.28	0.00	14.28	30	Pass
NVNT	ANT1	802.11g	2462.00	RMS	14.15	0.00	14.15	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	14.17	0.00	14.17	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	RMS	14.03	0.00	14.03	30	Pass

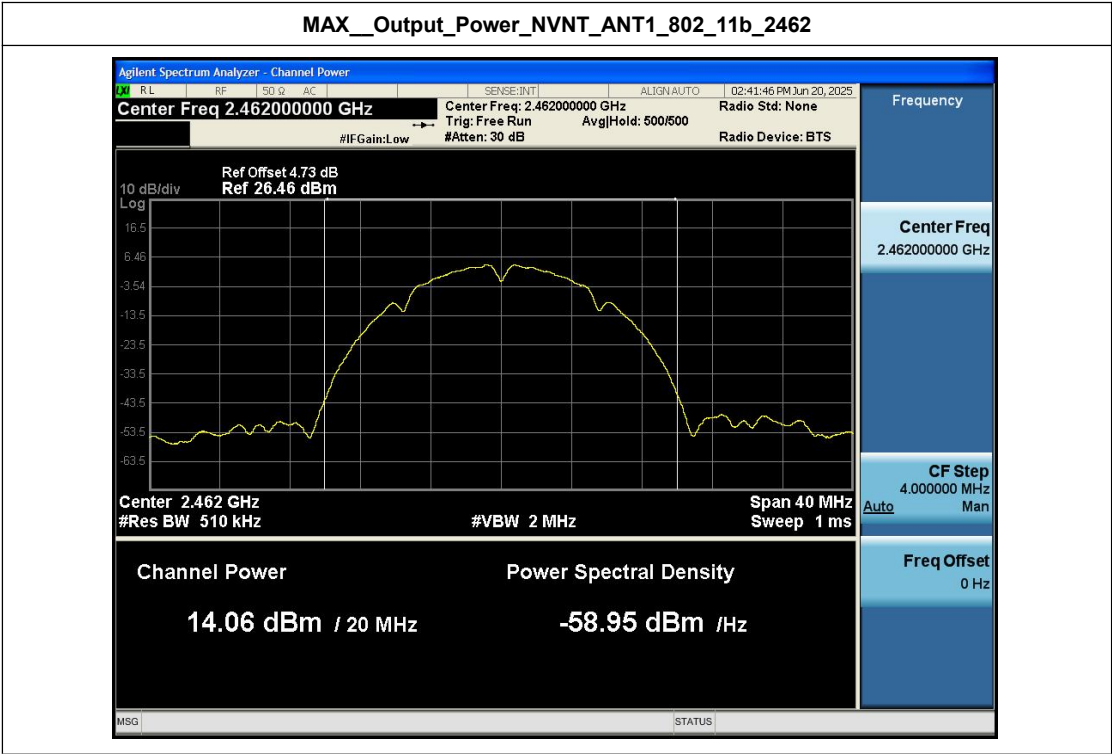
MAX__Output_Power_NVNT_ANT1_802_11b_2412



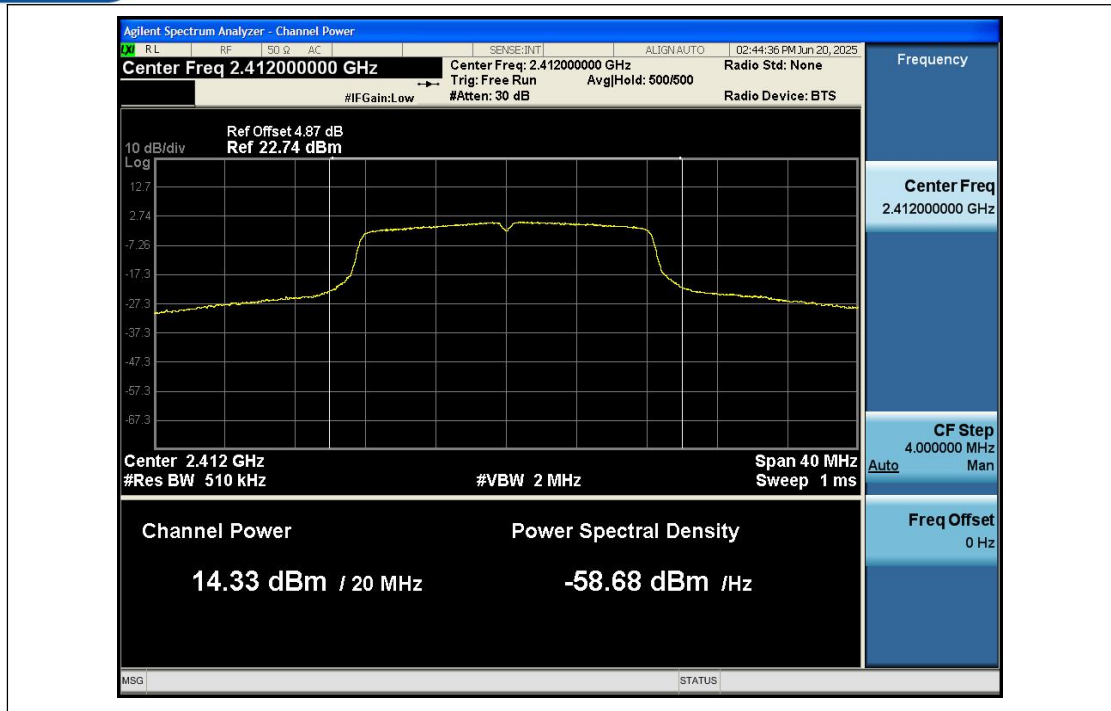
MAX__Output_Power_NVNT_ANT1_802_11b_2437



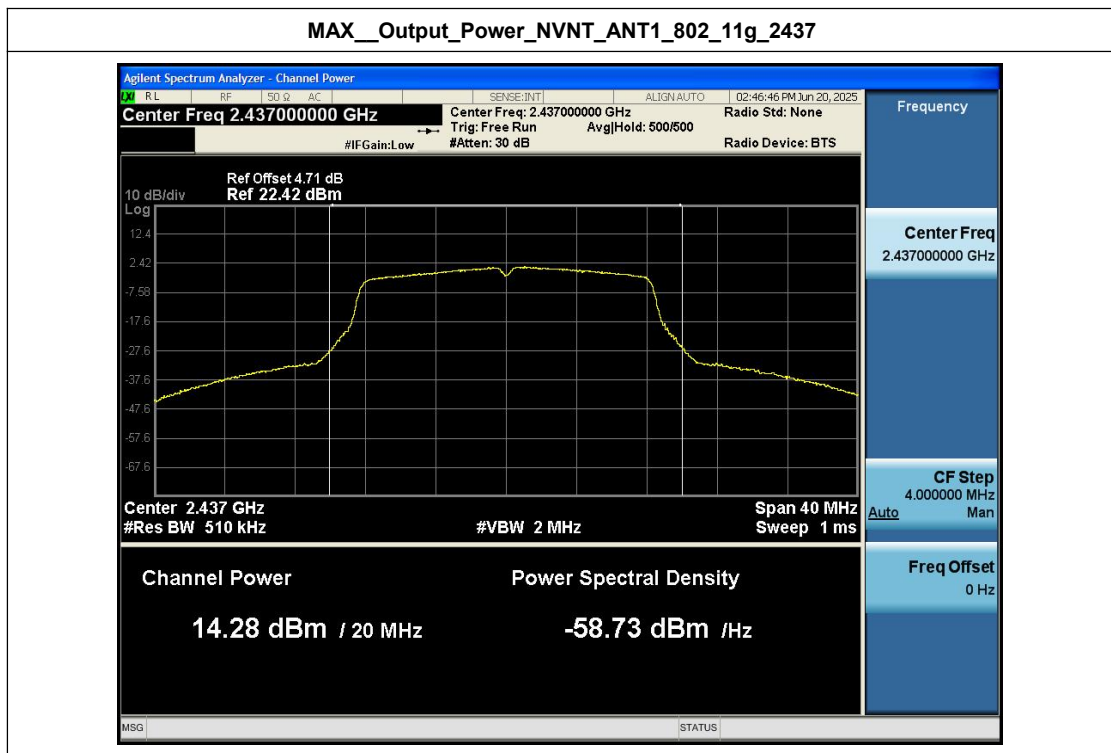
MAX__Output_Power_NVNT_ANT1_802_11b_2462



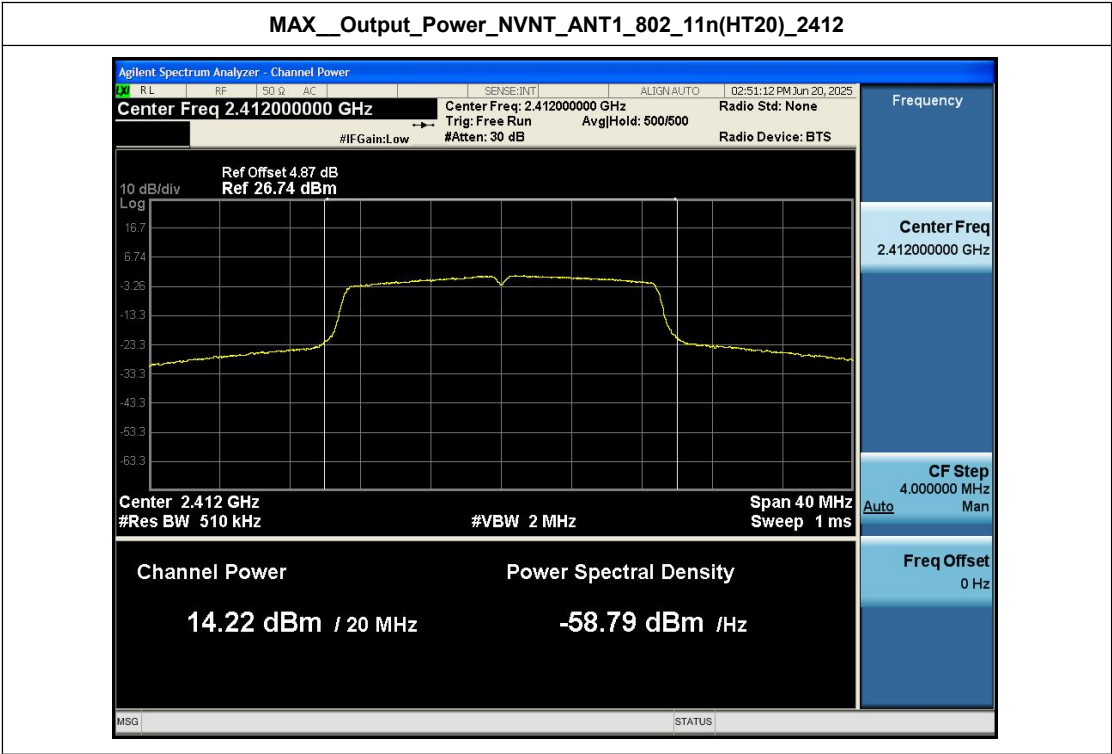
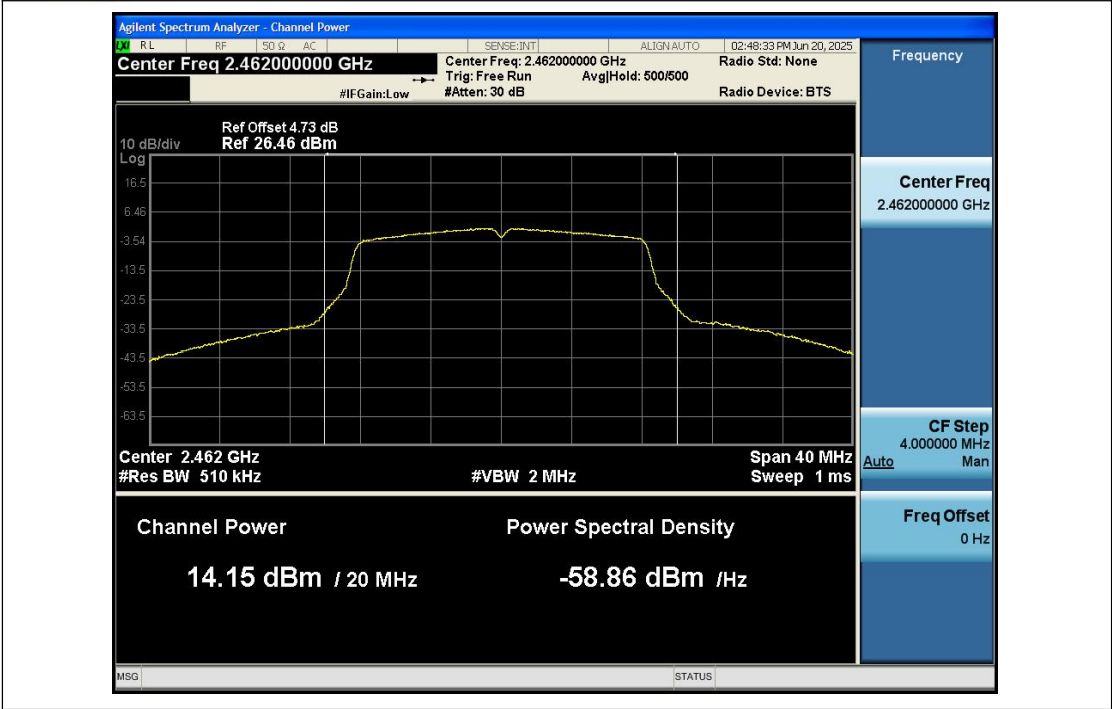
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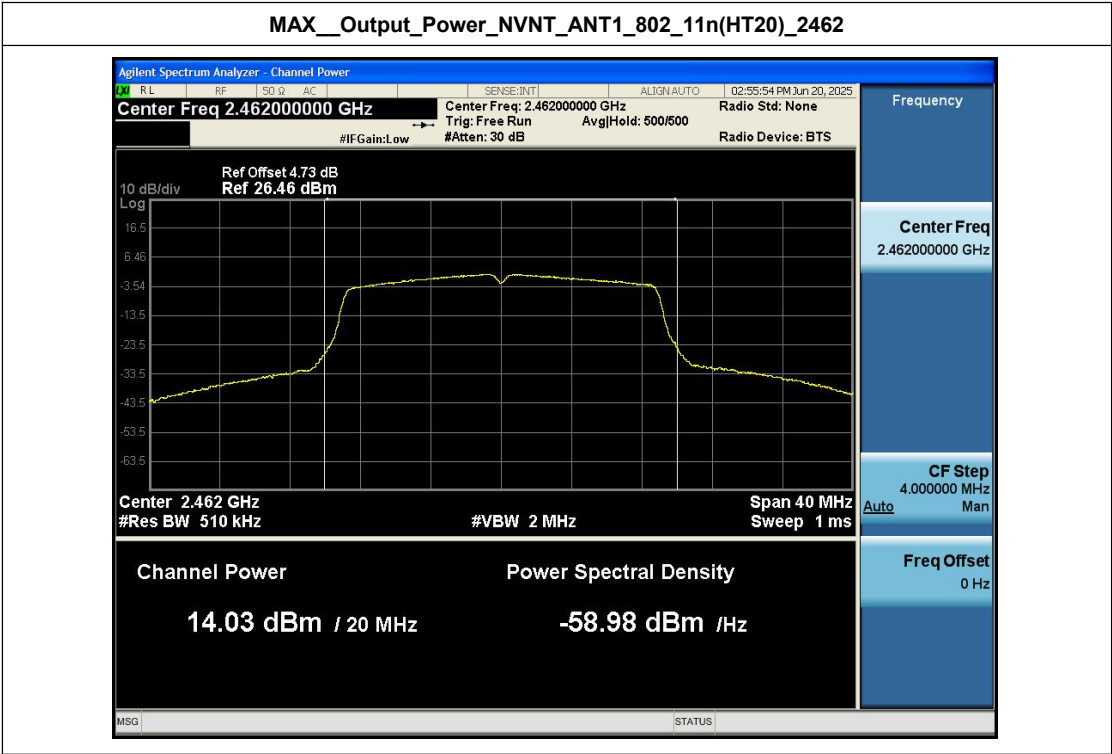
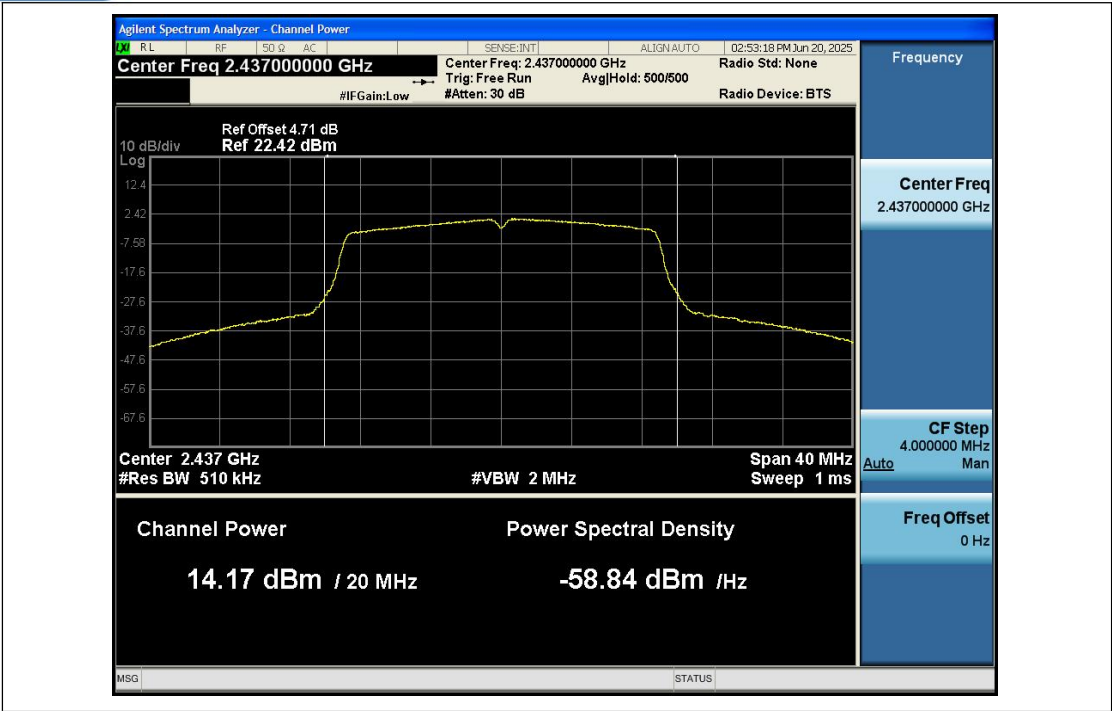
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MAX__Output_Power_NVNT_ANT1_802_11g_2462



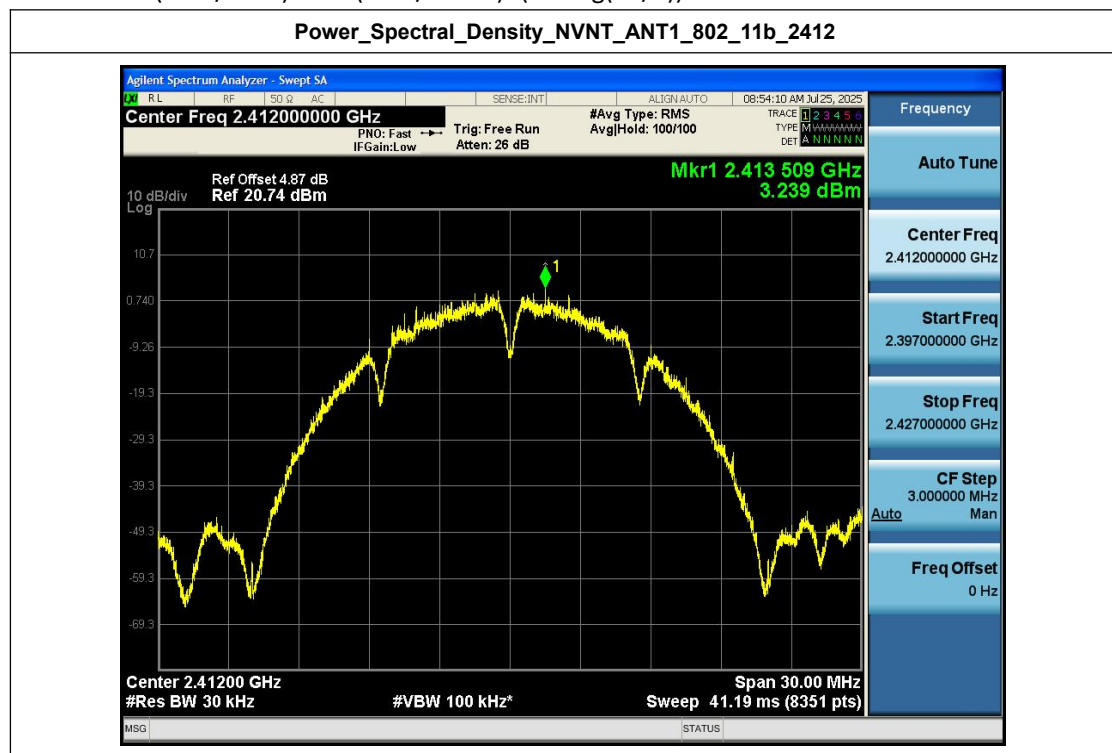
MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2437



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	3.24	0.00	-10.00	-6.76	8	Pass
NVNT	ANT1	802.11b	2437.00	3.87	0.00	-10.00	-6.13	8	Pass
NVNT	ANT1	802.11b	2462.00	3.65	0.00	-10.00	-6.35	8	Pass
NVNT	ANT1	802.11g	2412.00	0.28	0.00	-10.00	-9.72	8	Pass
NVNT	ANT1	802.11g	2437.00	-0.65	0.00	-10.00	-10.65	8	Pass
NVNT	ANT1	802.11g	2462.00	-0.15	0.00	-10.00	-10.15	8	Pass
NVNT	ANT1	802.11n(HT 20)	2412.00	0.51	0.00	-10.00	-9.49	8	Pass
NVNT	ANT1	802.11n(HT 20)	2437.00	-0.23	0.00	-10.00	-10.23	8	Pass
NVNT	ANT1	802.11n(HT 20)	2462.00	0.29	0.00	-10.00	-9.71	8	Pass

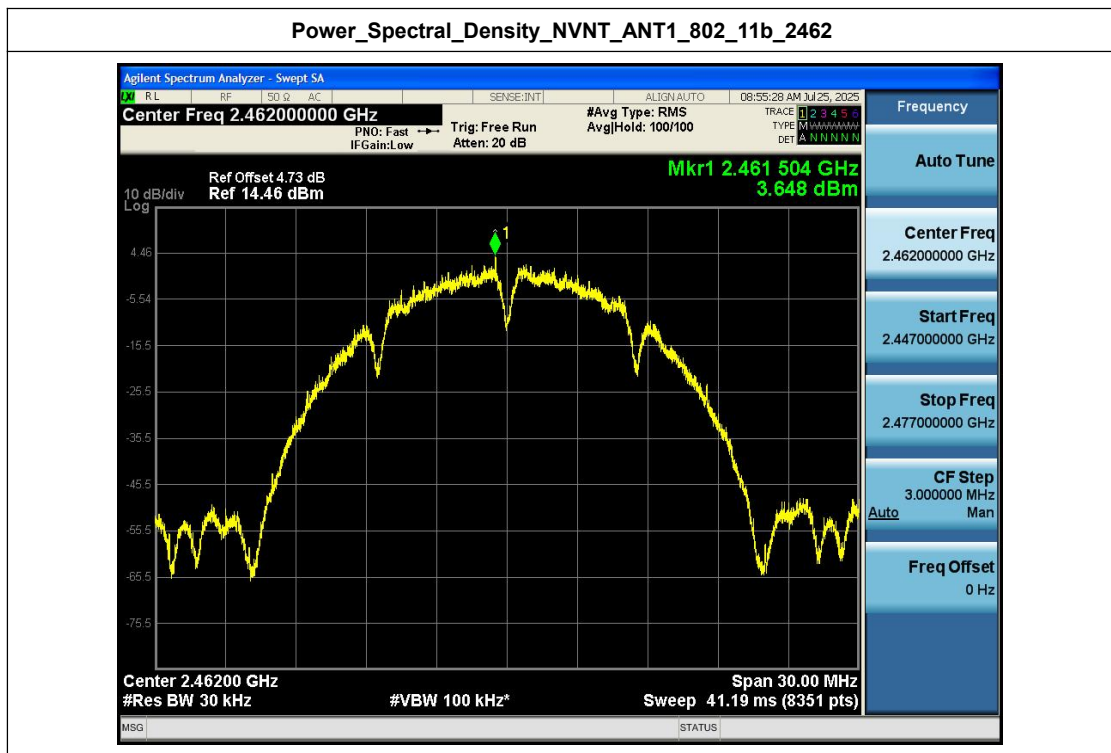
Note: 1.The cable loss are compensated in the graph.
2. $PSD(dBm/3kHz) = PSD(dBm/30kHz) - (10 \cdot \log(30/3))$.



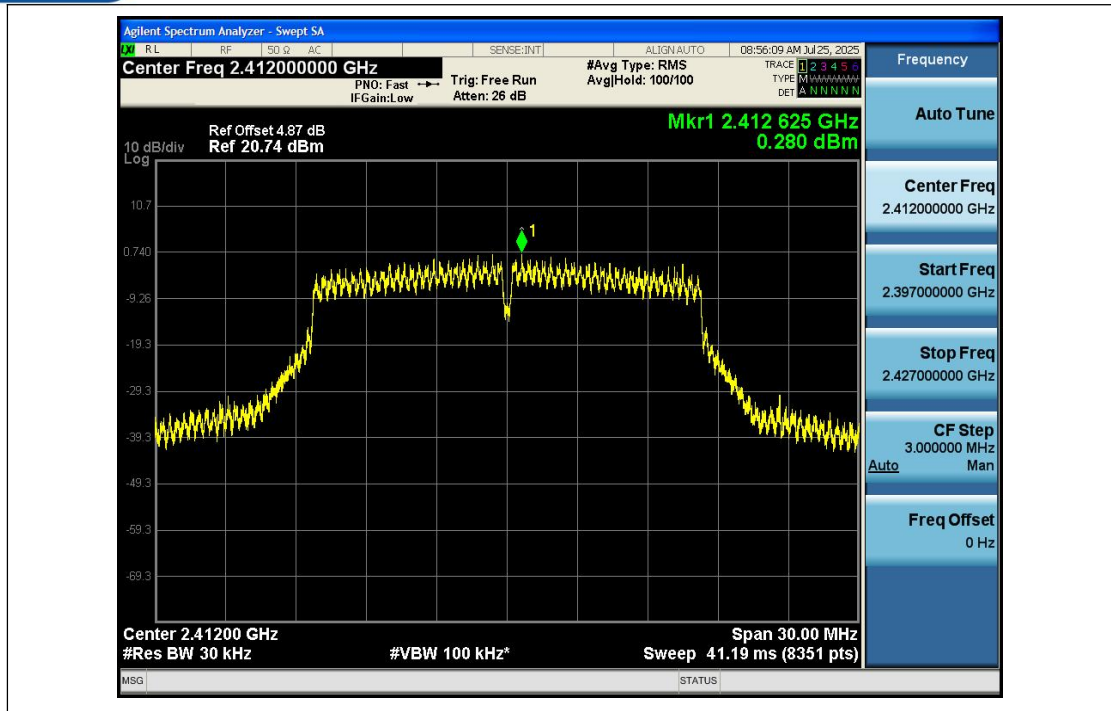
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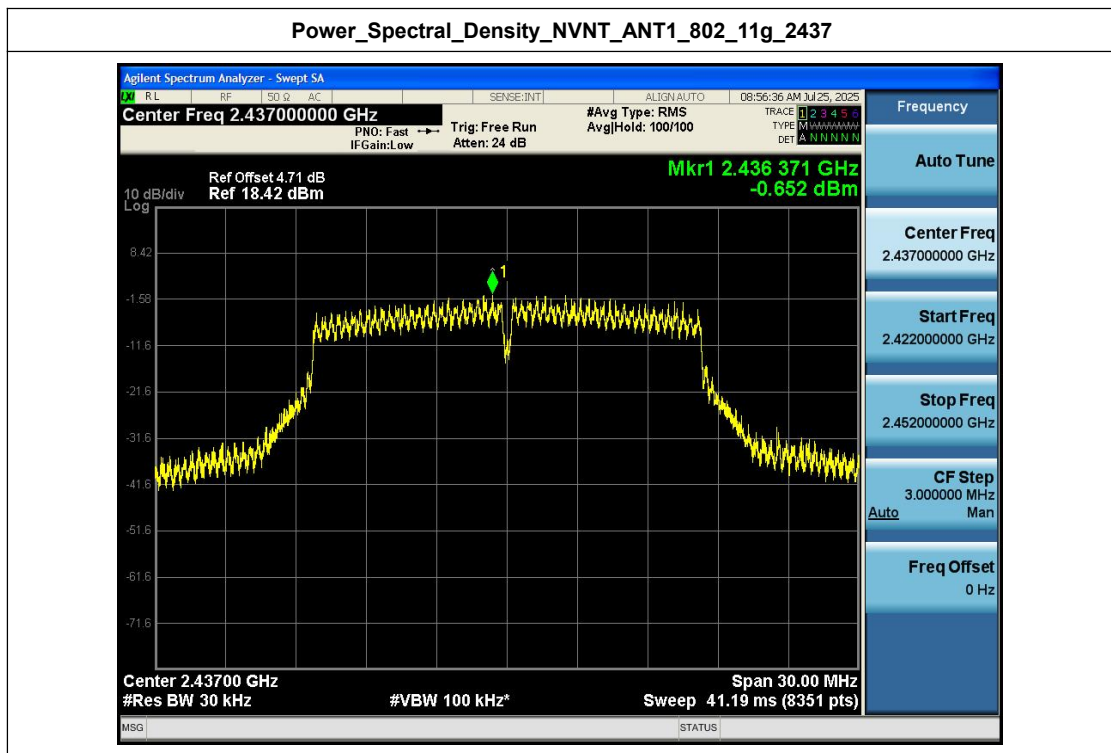
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Power_Spectral_Density_NVNT_ANT1_802_11g_2412

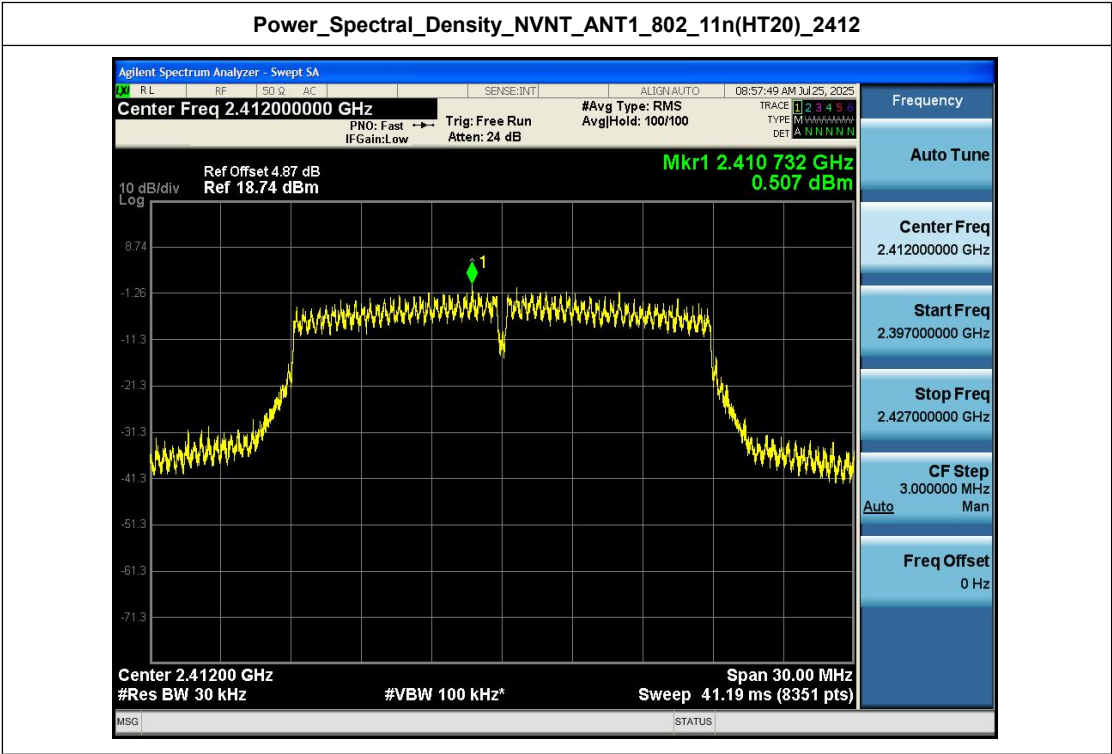
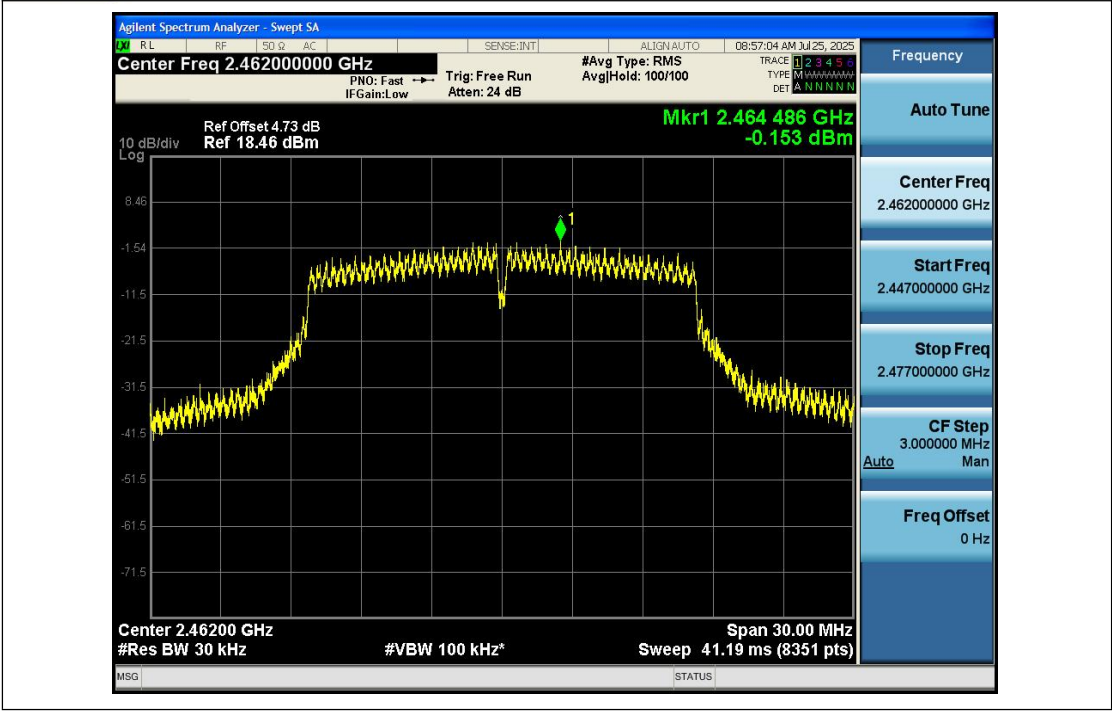


Power_Spectral_Density_NVNT_ANT1_802_11g_2437



Power_Spectral_Density_NVNT_ANT1_802_11g_2462





Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437