

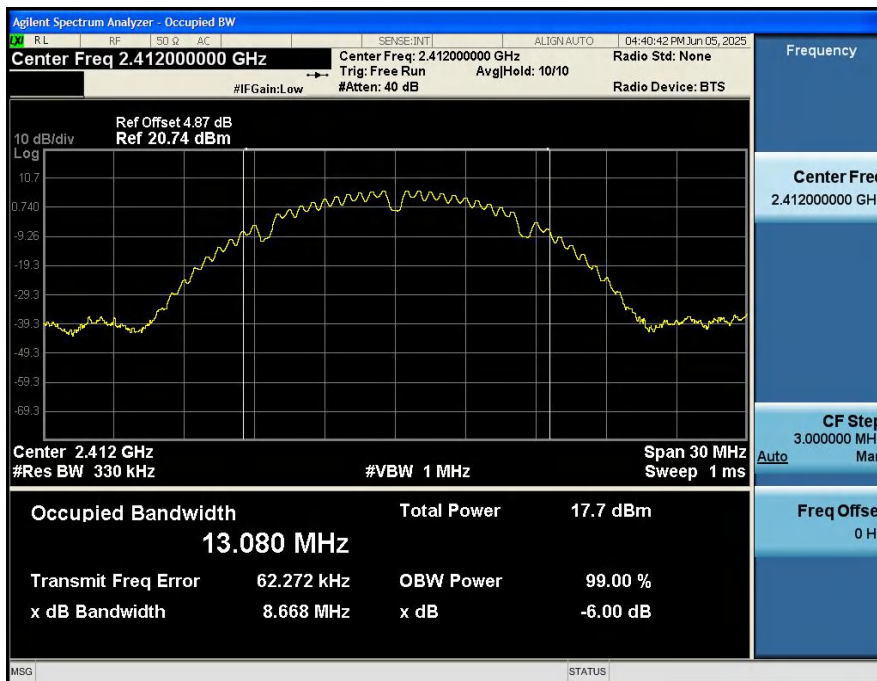
Appendix Test Data

Report No.:	1812C50255912502	Test Sample No.:	1-2-2
Start Test Date:	2025.5.28	Finish Test Date:	2025.6.5
Test Engineer:	<i>Liangfei Yang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	21.5℃	Relative Humidity:	56%
Pressure:	101kPa		

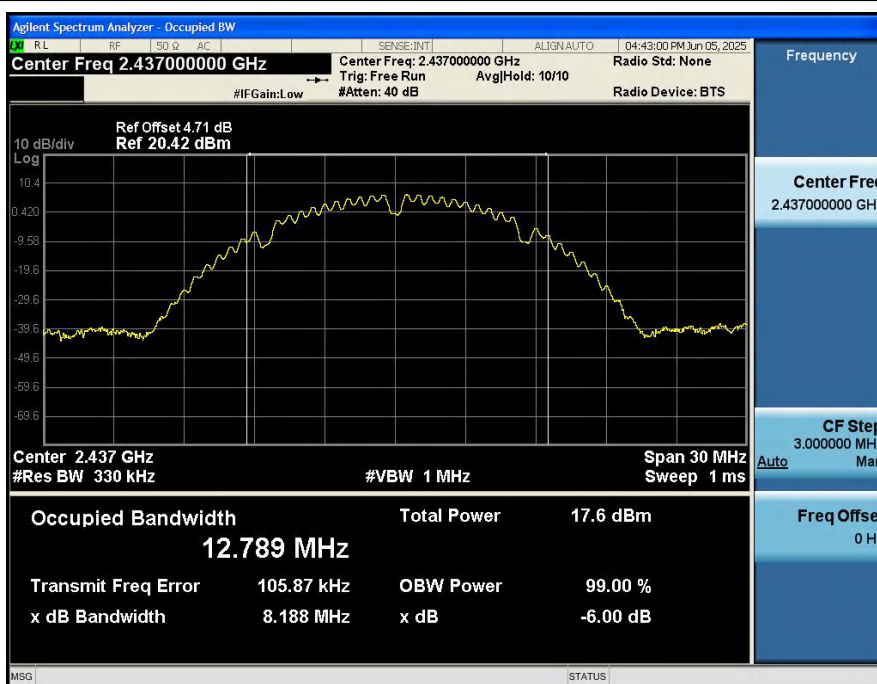
Appendix A: -6dB Bandwidth

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	8.19	500	Pass
NVNT	ANT1	802.11g	2412.00	16.23	500	Pass
NVNT	ANT1	802.11g	2437.00	16.07	500	Pass
NVNT	ANT1	802.11g	2462.00	16.15	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.53	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.30	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.03	500	Pass

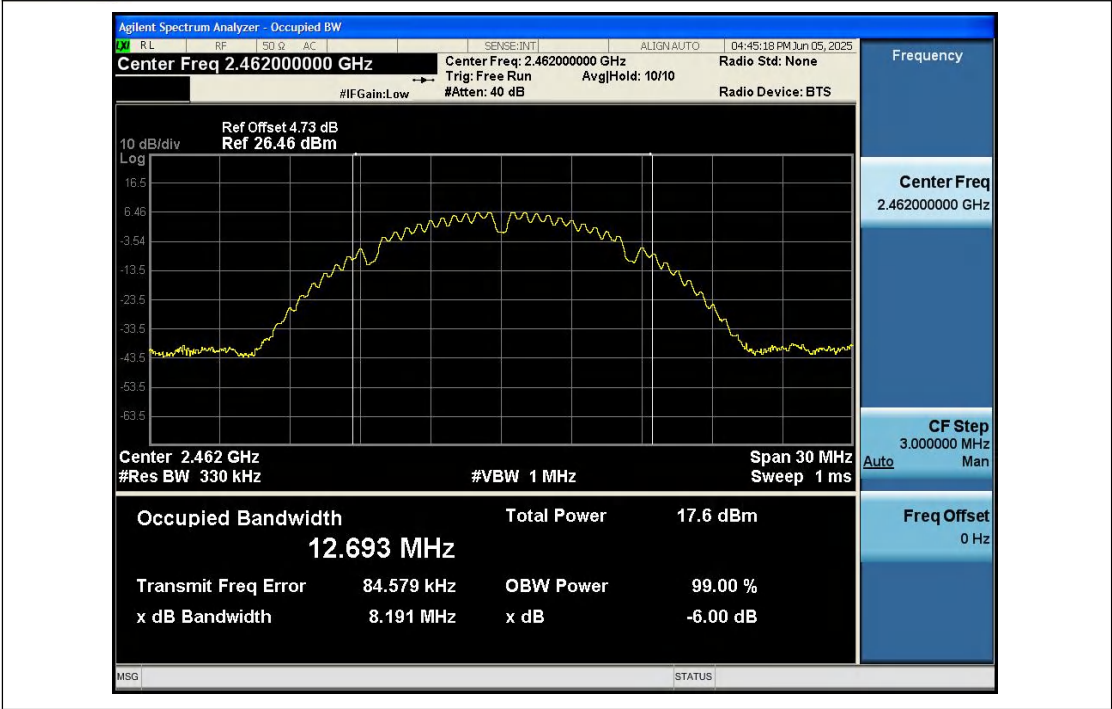
-6dB_Bandwidth_NVNT_ANT1_802_11b_2412



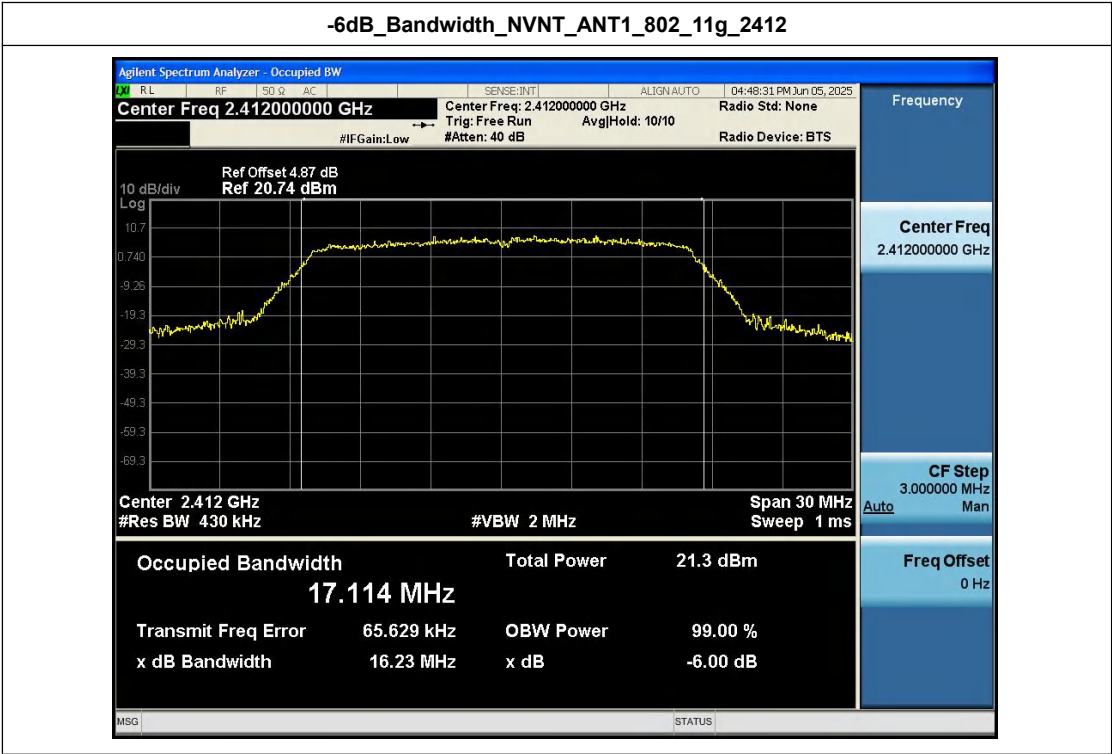
-6dB Bandwidth NVNT ANT1 802 11b 2437



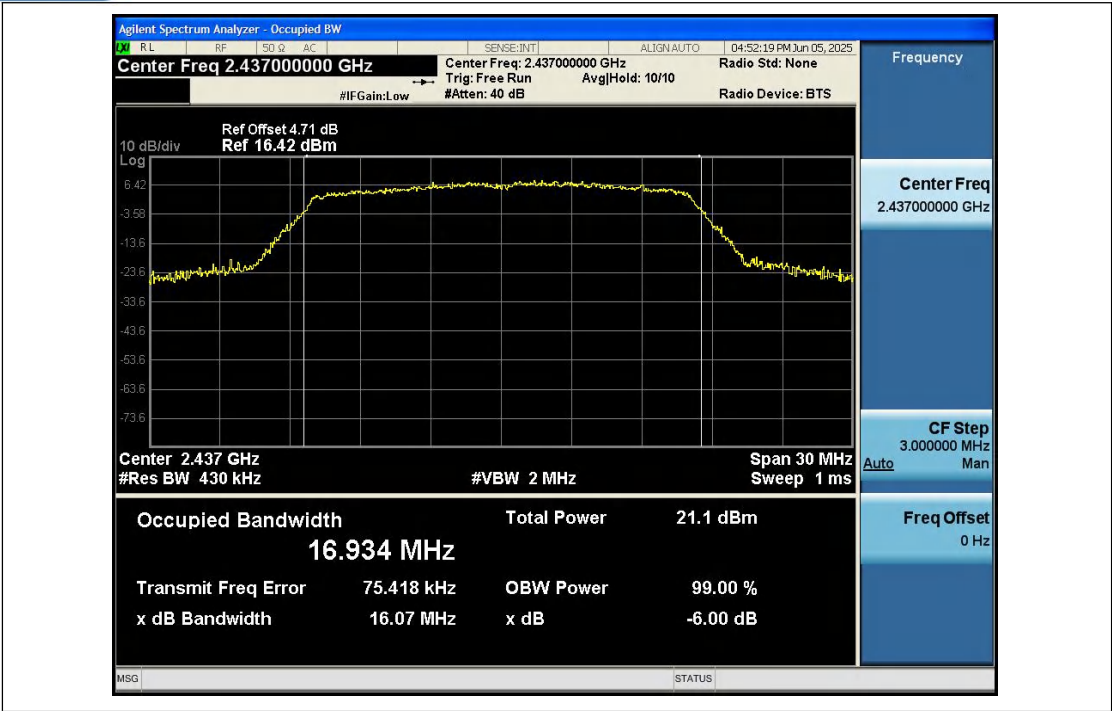
-6dB Bandwidth NVNT ANT1 802 11b 2462



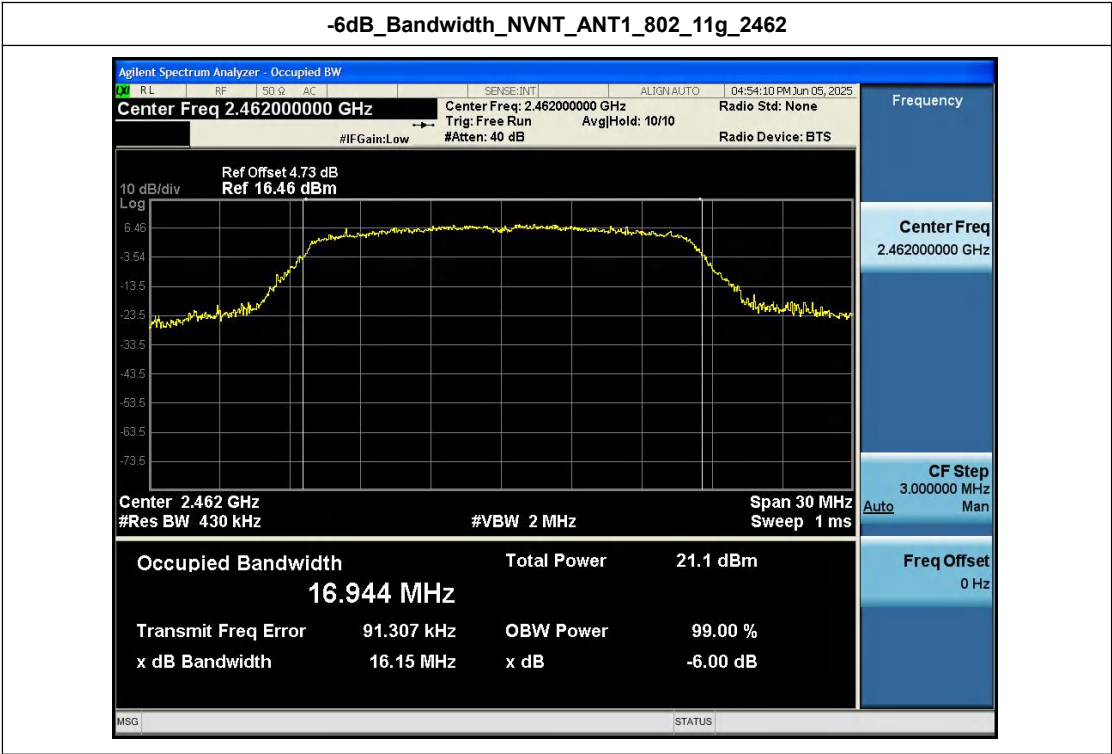
-6dB_Bandwidth_NVNT_ANT1_802_11g_2412



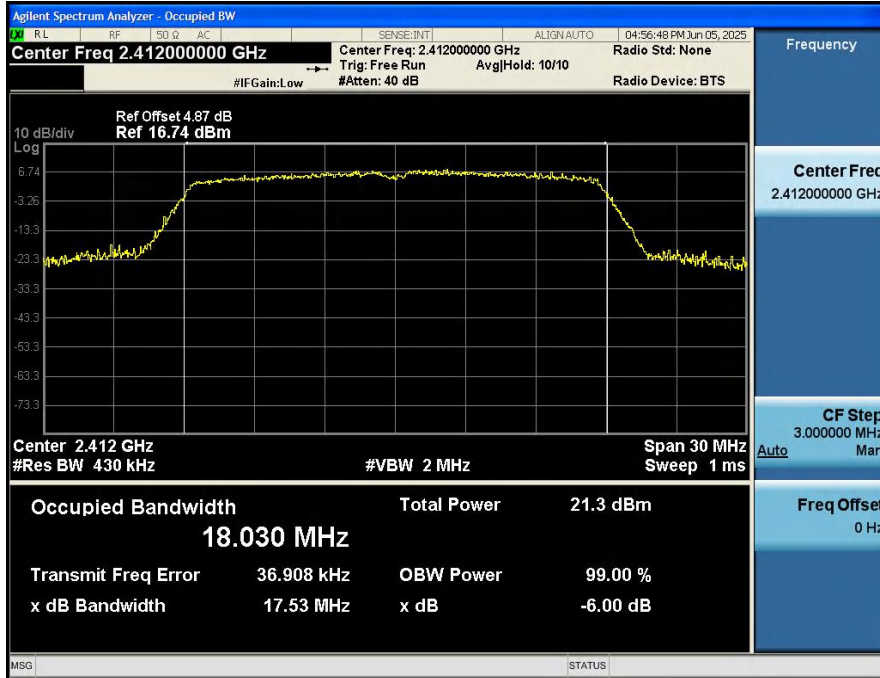
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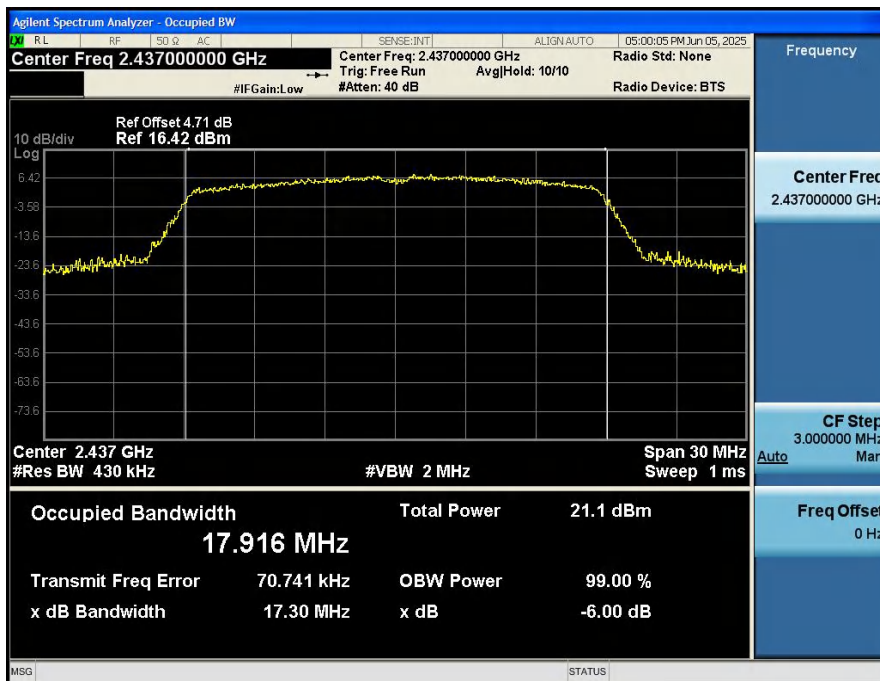
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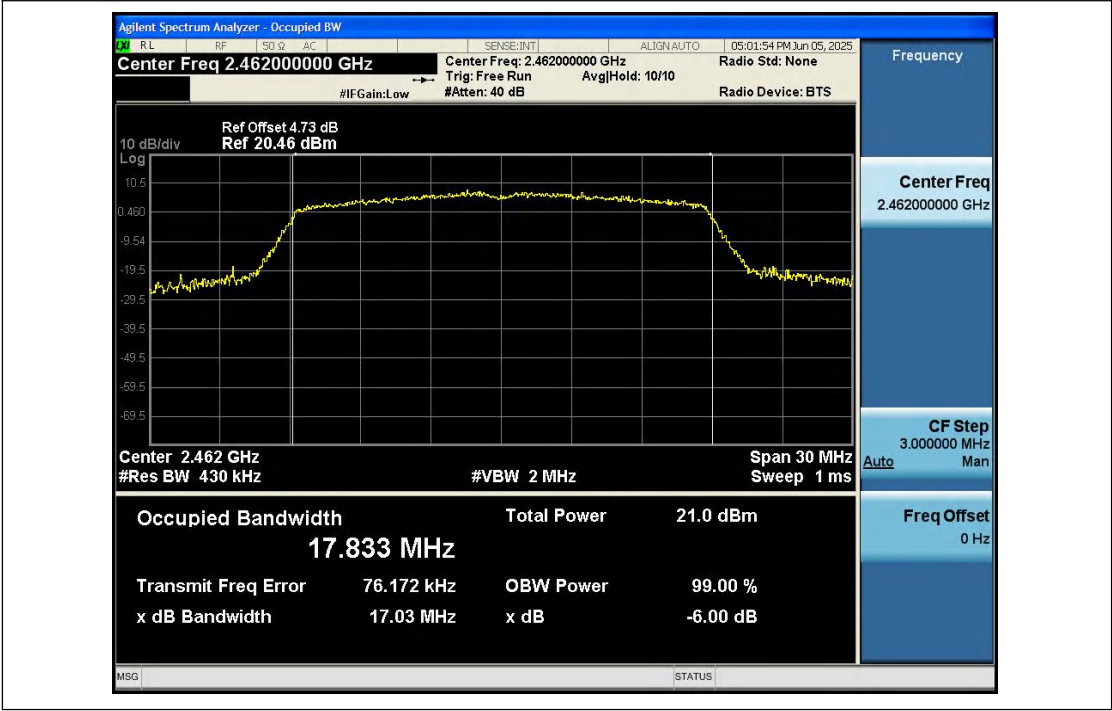
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



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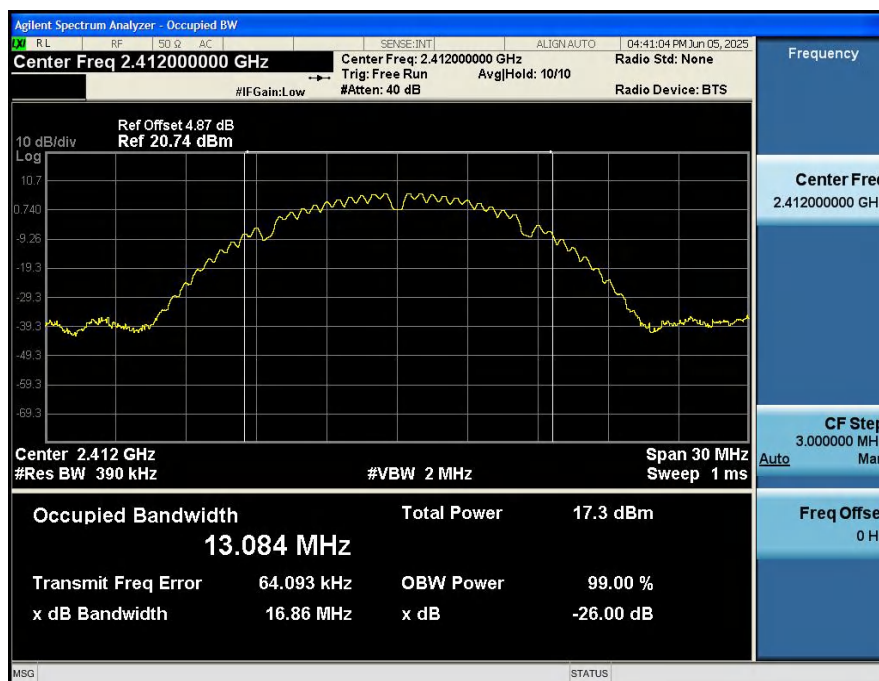
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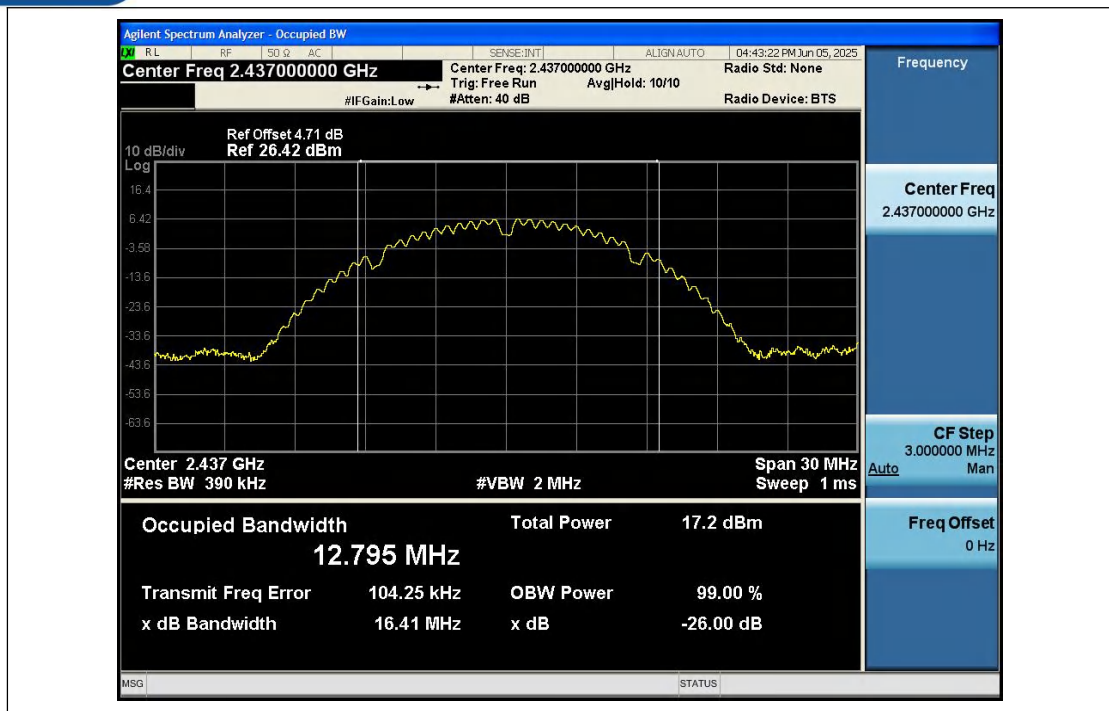
Appendix B: 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%BW(MHz)
NVNT	ANT1	802.11b	2412.00	13.084
NVNT	ANT1	802.11b	2437.00	12.795
NVNT	ANT1	802.11b	2462.00	12.695
NVNT	ANT1	802.11g	2412.00	17.330
NVNT	ANT1	802.11g	2437.00	17.155
NVNT	ANT1	802.11g	2462.00	17.081
NVNT	ANT1	802.11n(HT20)	2412.00	18.178
NVNT	ANT1	802.11n(HT20)	2437.00	18.003
NVNT	ANT1	802.11n(HT20)	2462.00	18.030

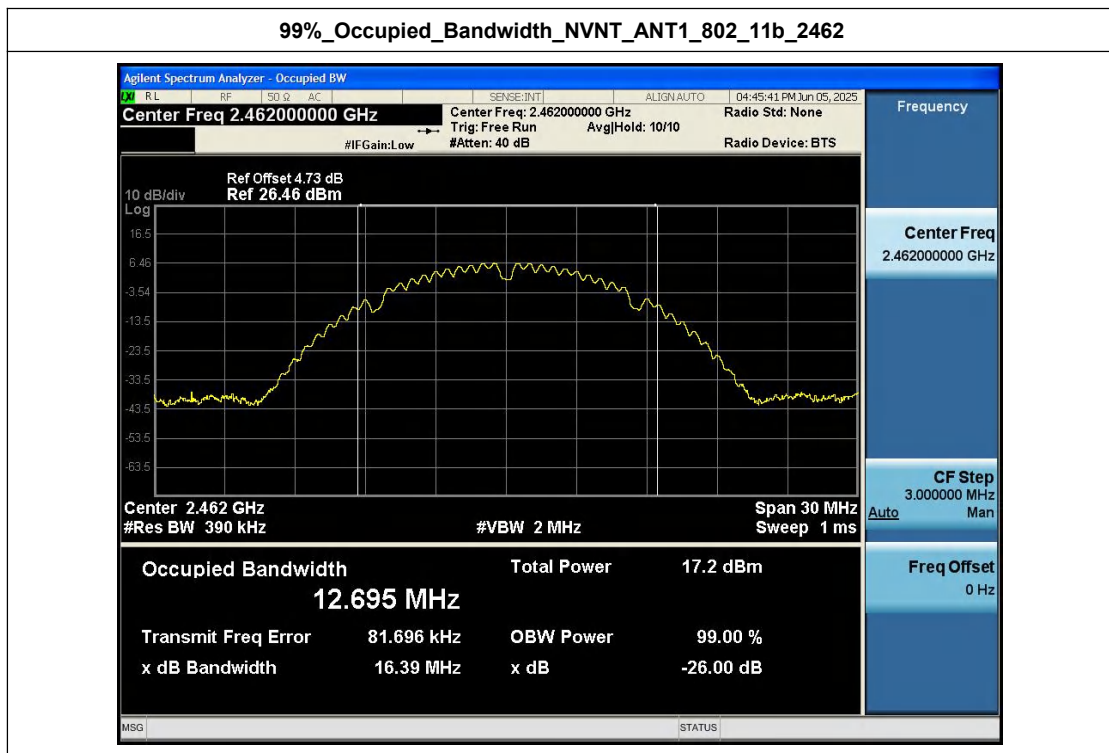
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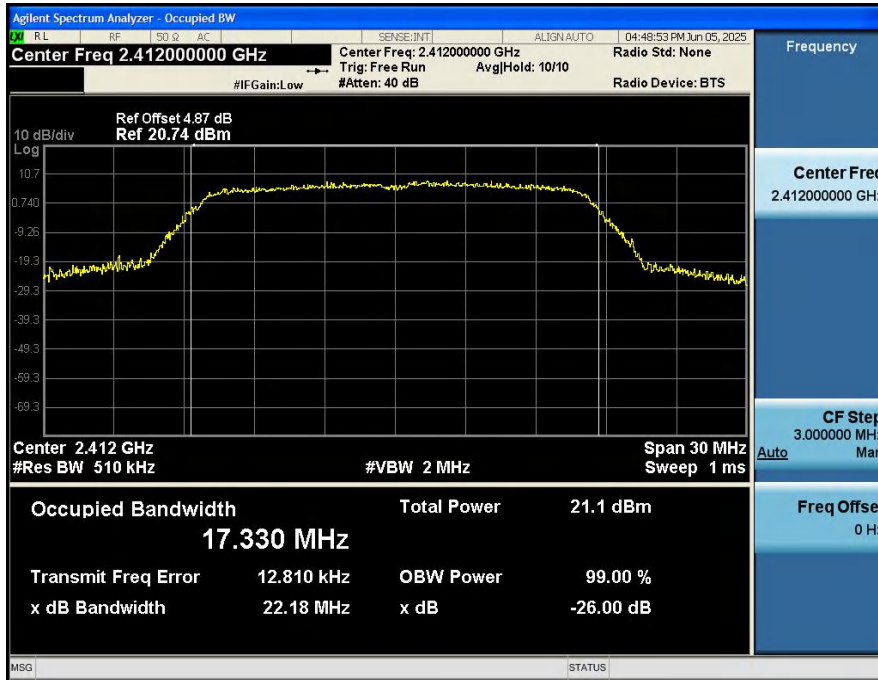
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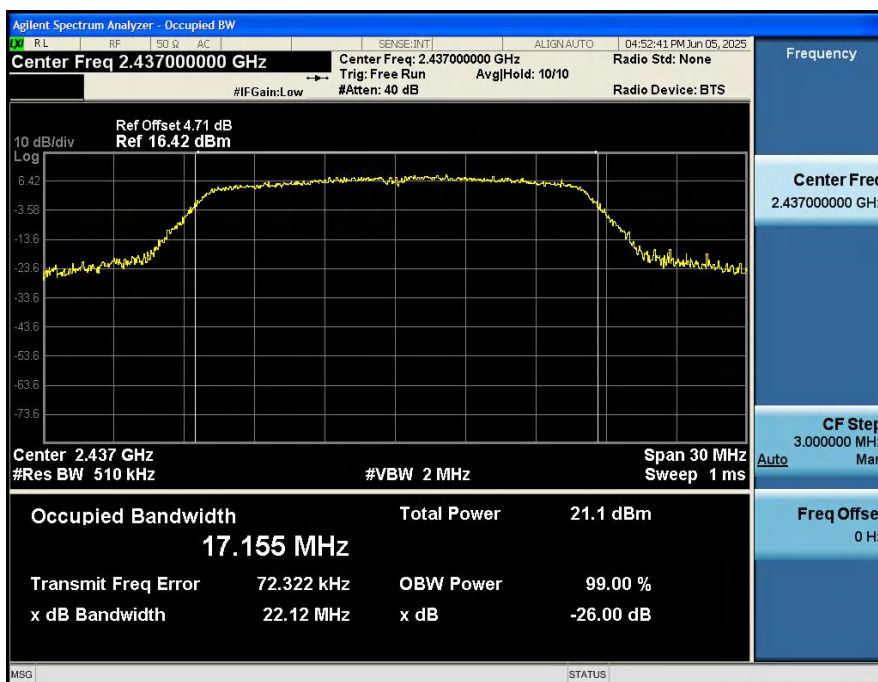
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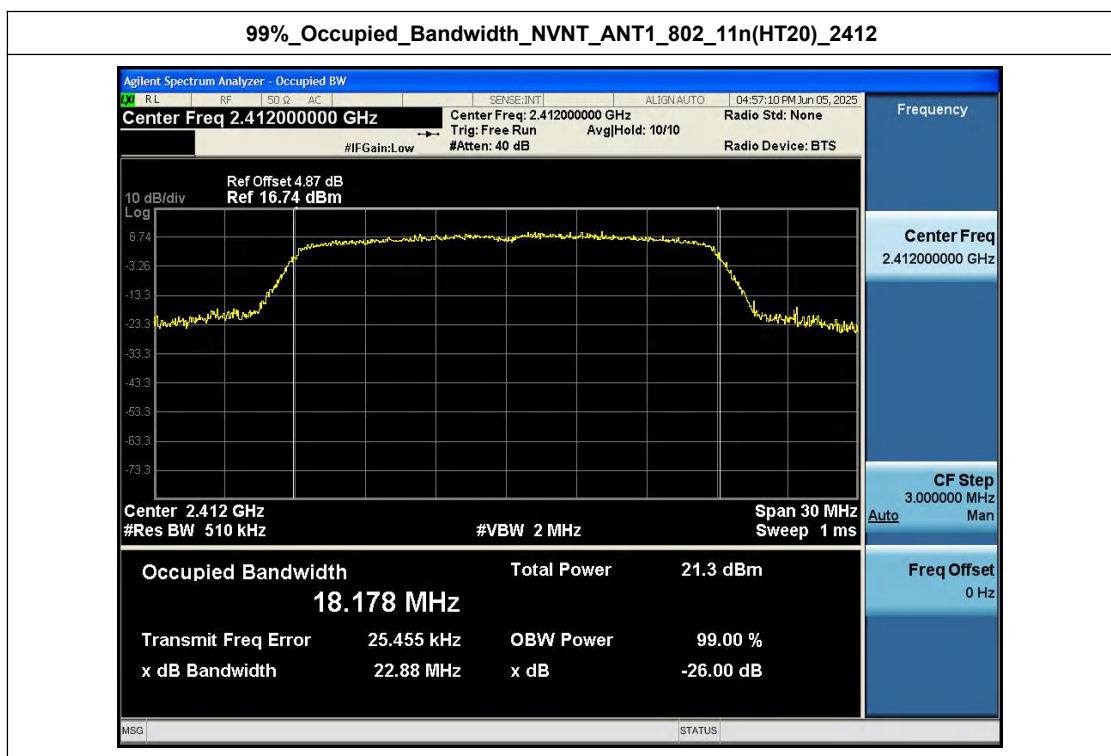
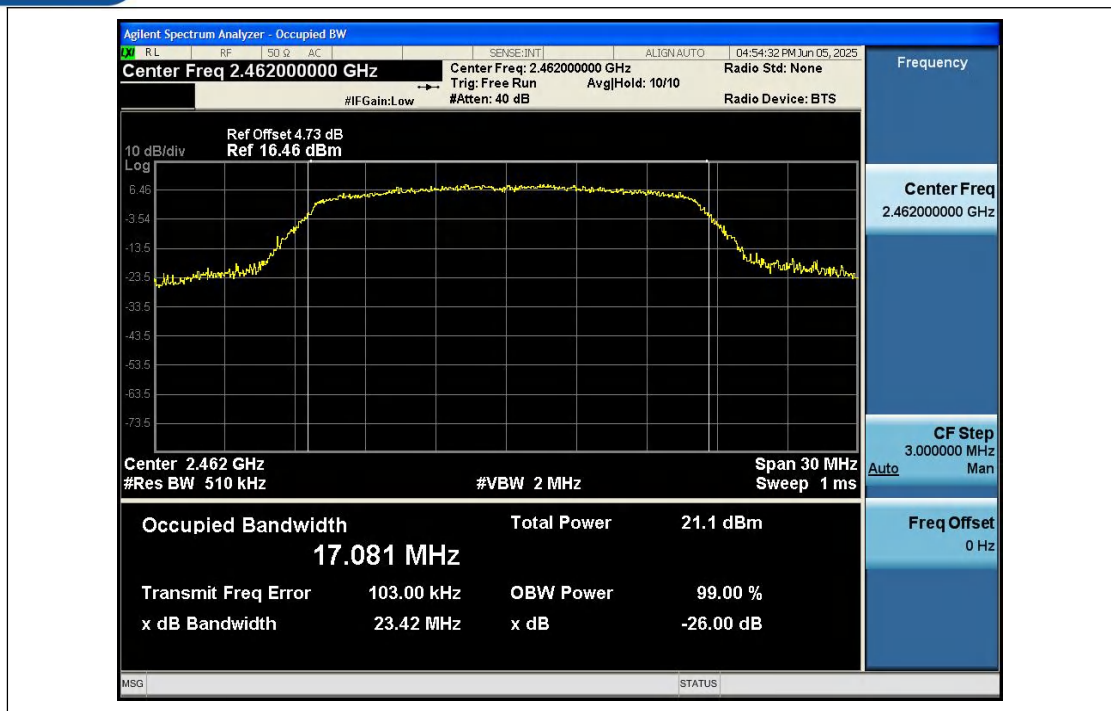
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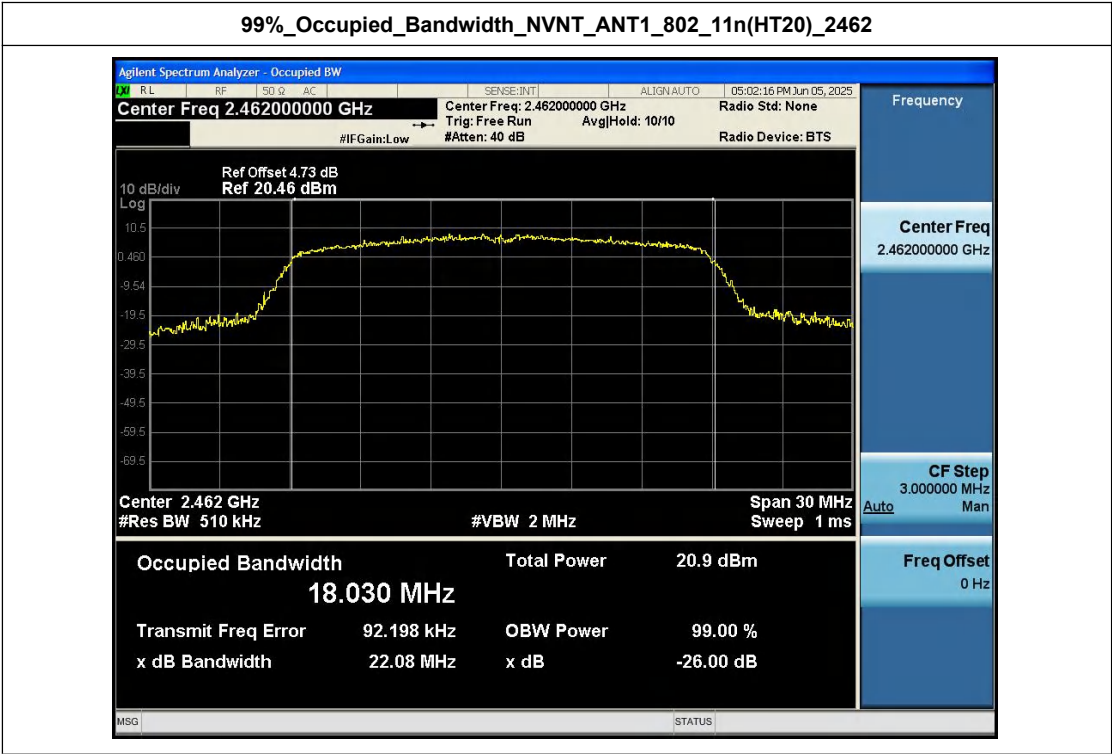
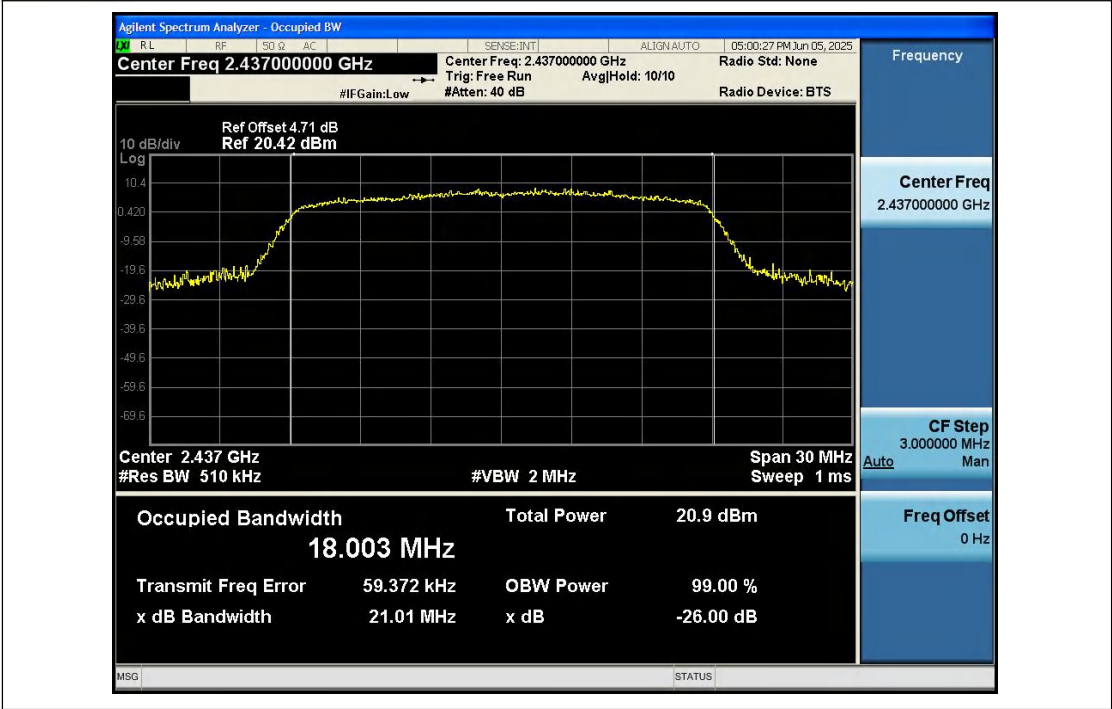
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99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2462



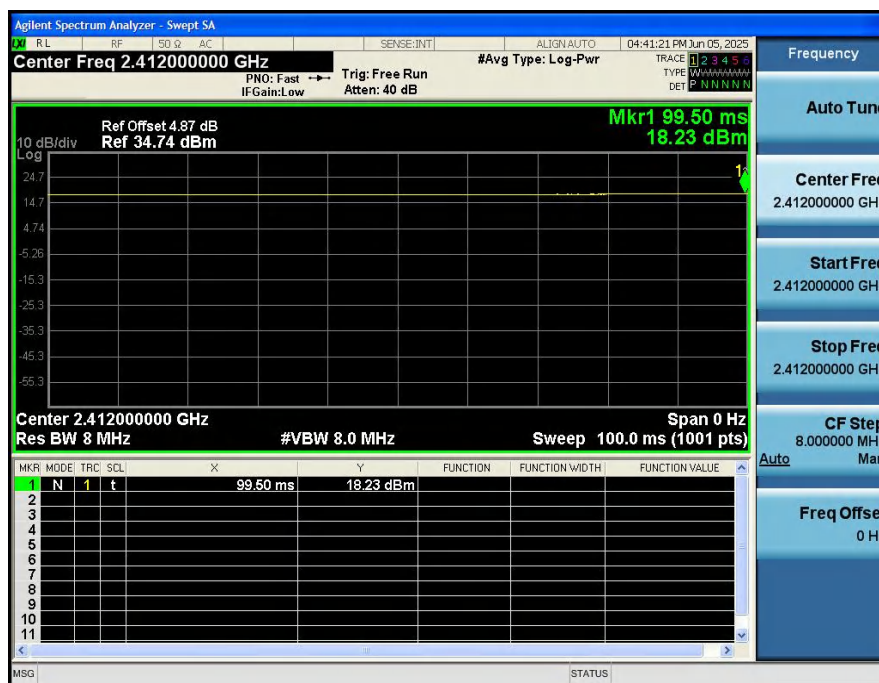
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



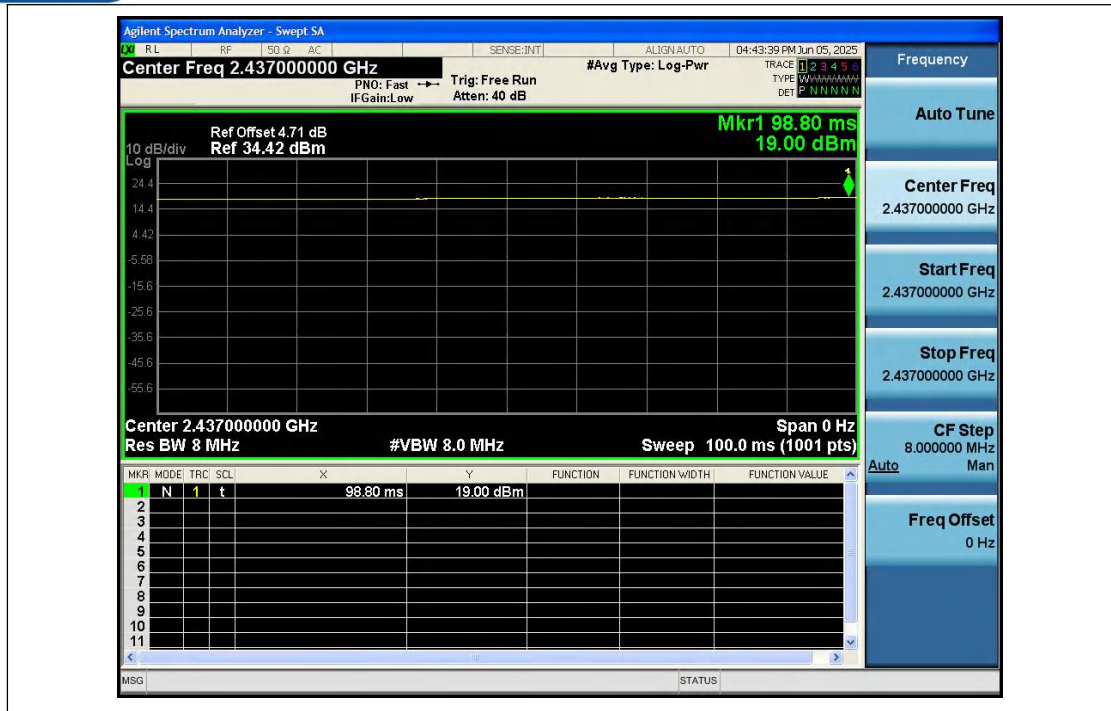
Appendix C: Duty Cycle

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

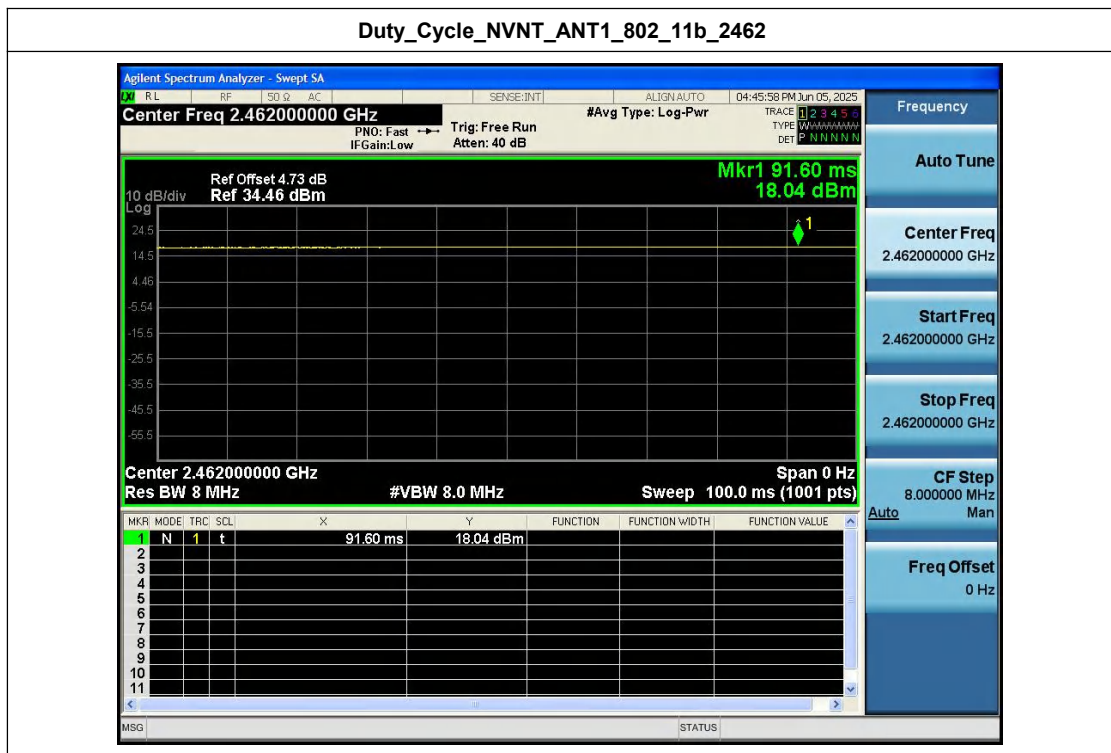
Duty_Cycle_NVNT_ANT1_802_11b_2412



Duty_Cycle_NVNT_ANT1_802_11b_2437



Duty_Cycle_NVNT_ANT1_802_11b_2462

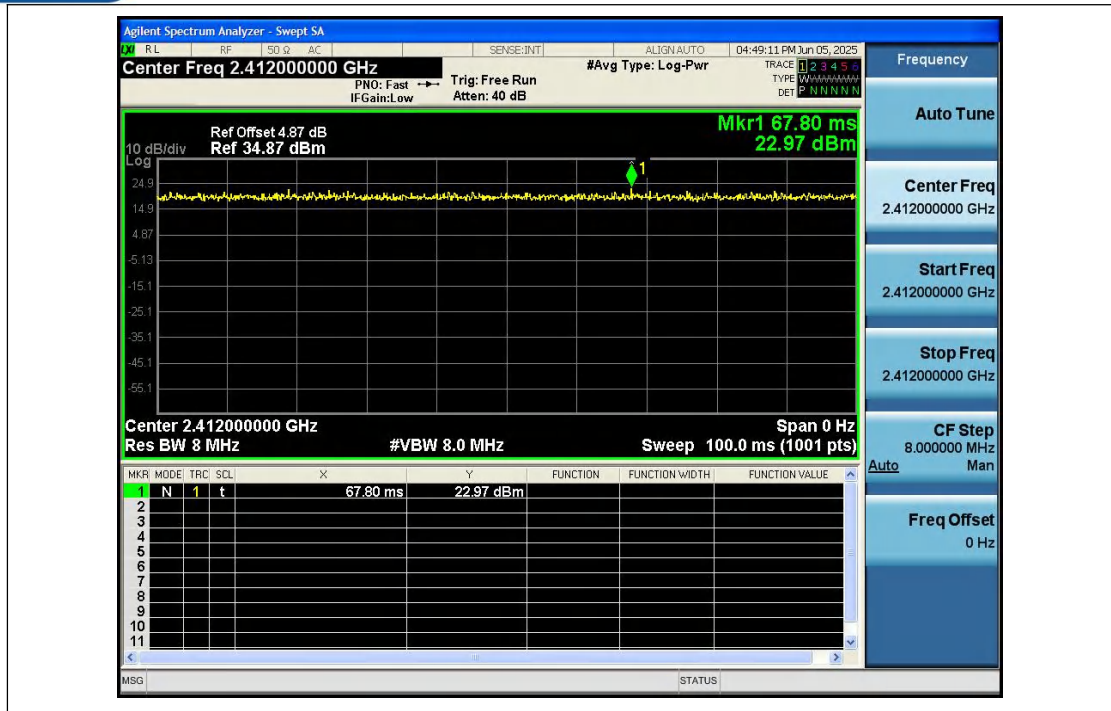


Duty_Cycle_NVNT_ANT1_802_11g_2412

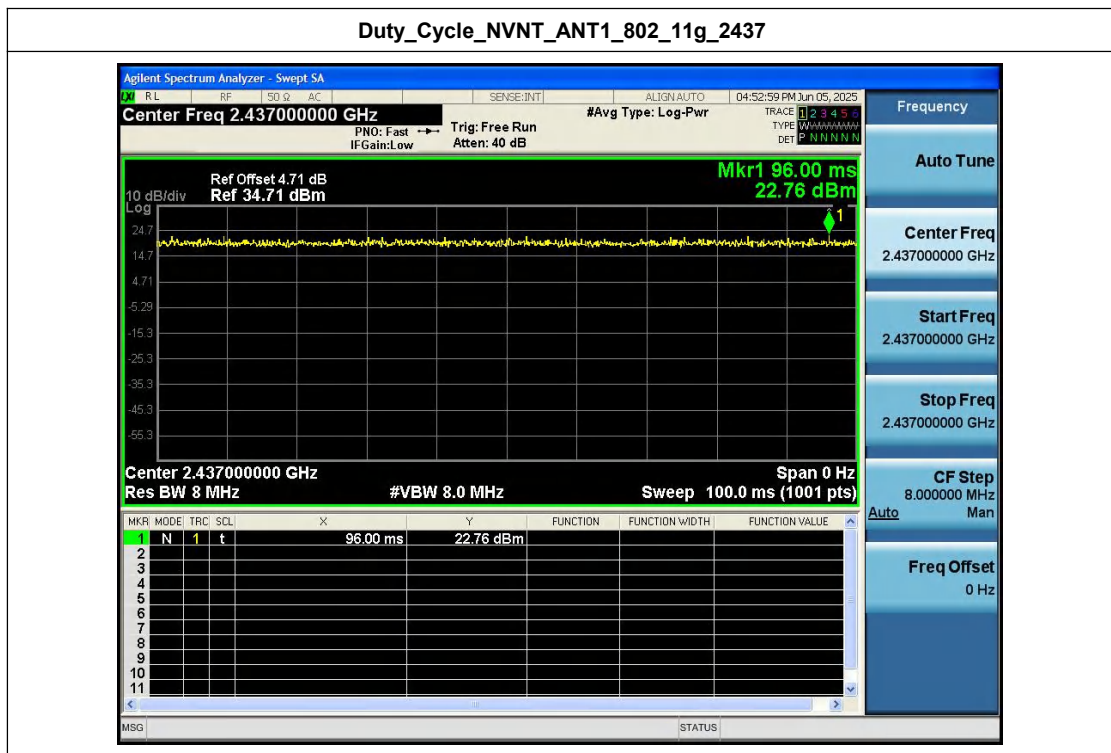
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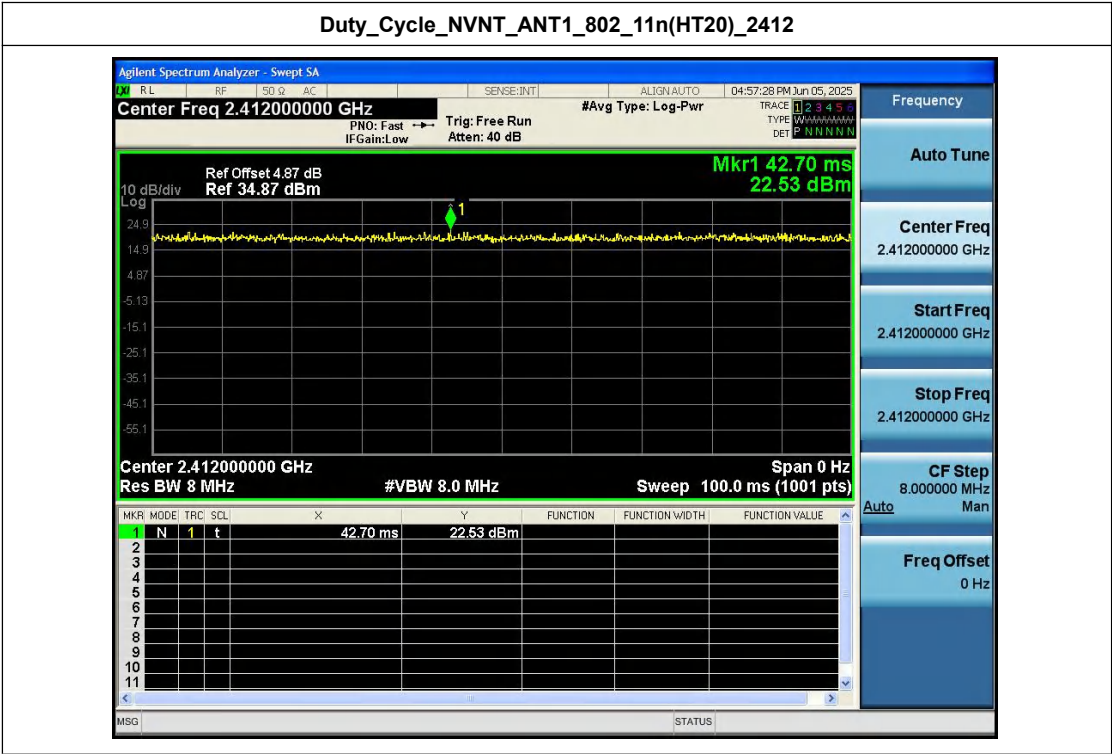
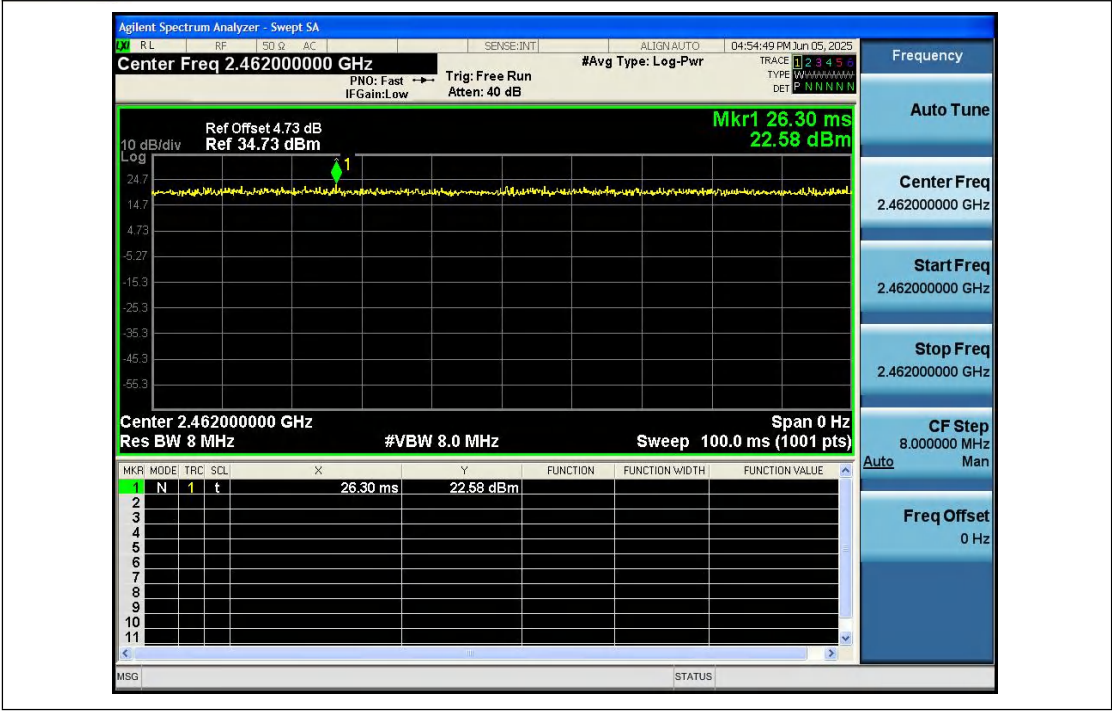
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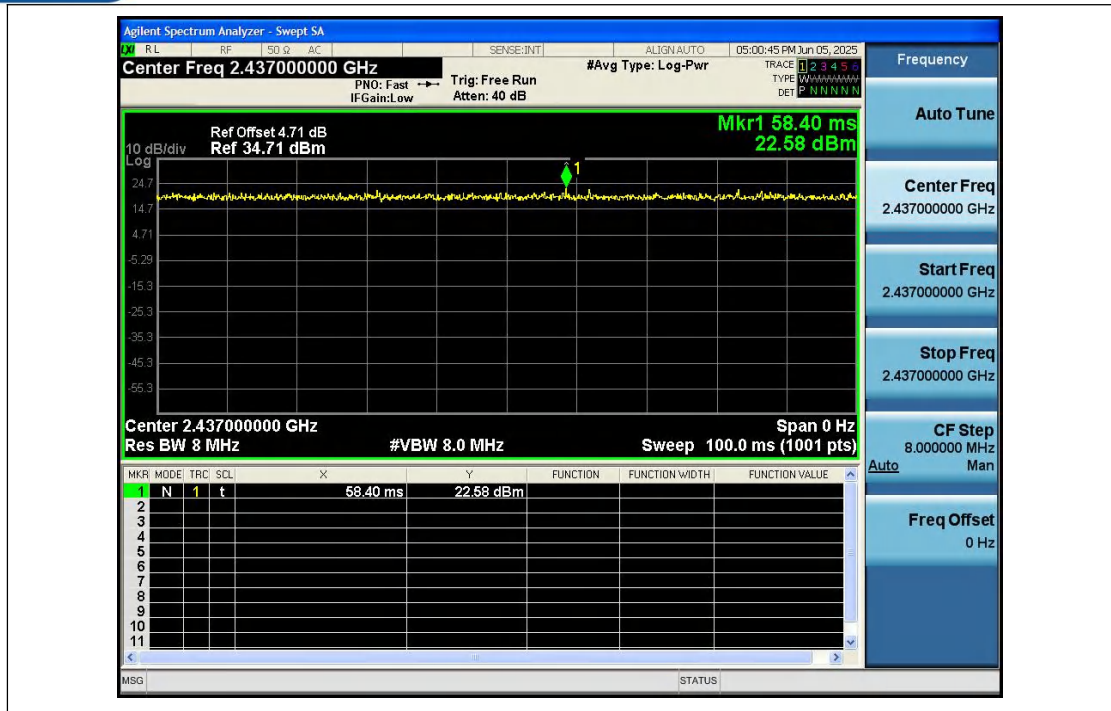
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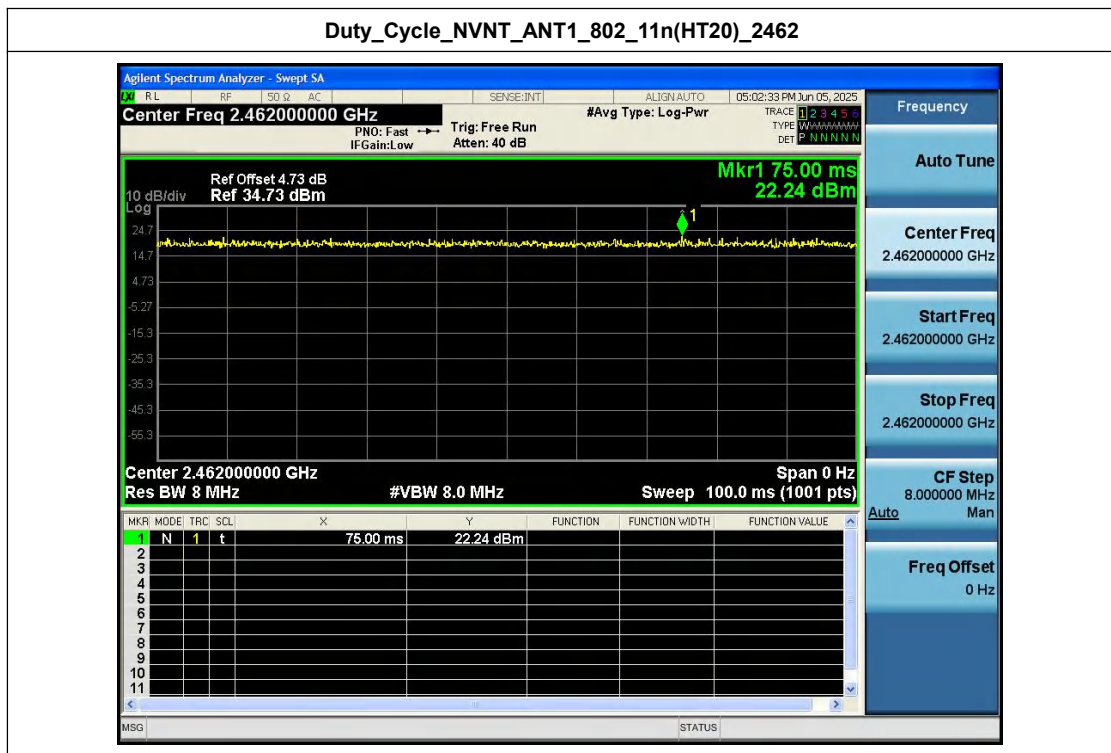
Duty_Cycle_NVNT_ANT1_802_11g_2462



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462



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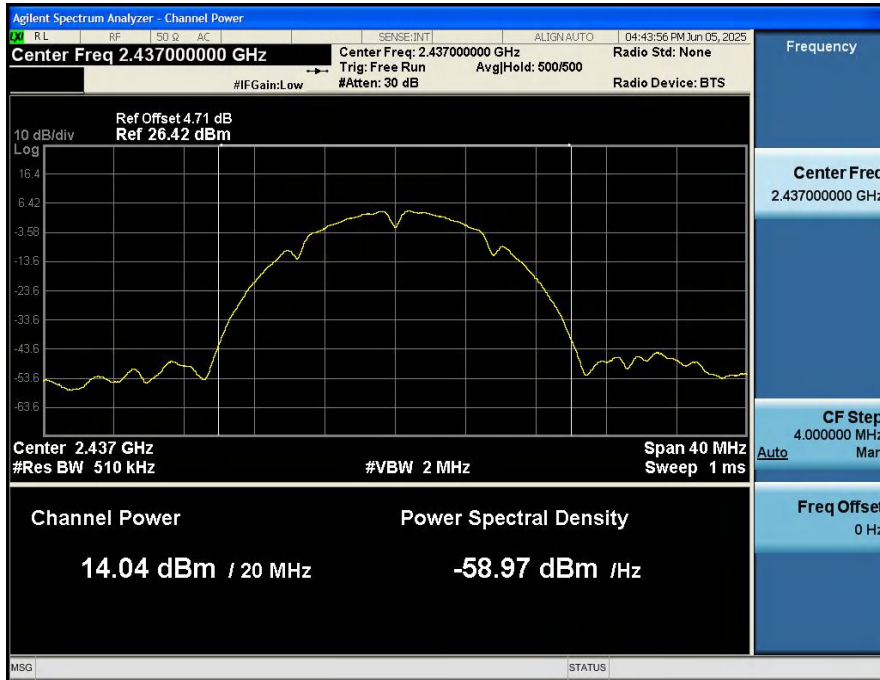
Appendix D: MAX. Output Power

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	14.15	0.00	14.15	30	Pass
NVNT	ANT1	802.11b	2437.00	RMS	14.04	0.00	14.04	30	Pass
NVNT	ANT1	802.11b	2462.00	RMS	14.09	0.00	14.09	30	Pass
NVNT	ANT1	802.11g	2412.00	RMS	14.09	0.00	14.09	30	Pass
NVNT	ANT1	802.11g	2437.00	RMS	13.99	0.00	13.99	30	Pass
NVNT	ANT1	802.11g	2462.00	RMS	14.07	0.00	14.07	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	RMS	14.21	0.00	14.21	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	RMS	13.89	0.00	13.89	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	RMS	13.94	0.00	13.94	30	Pass

MAX__Output_Power_NVNT_ANT1_802_11b_2412



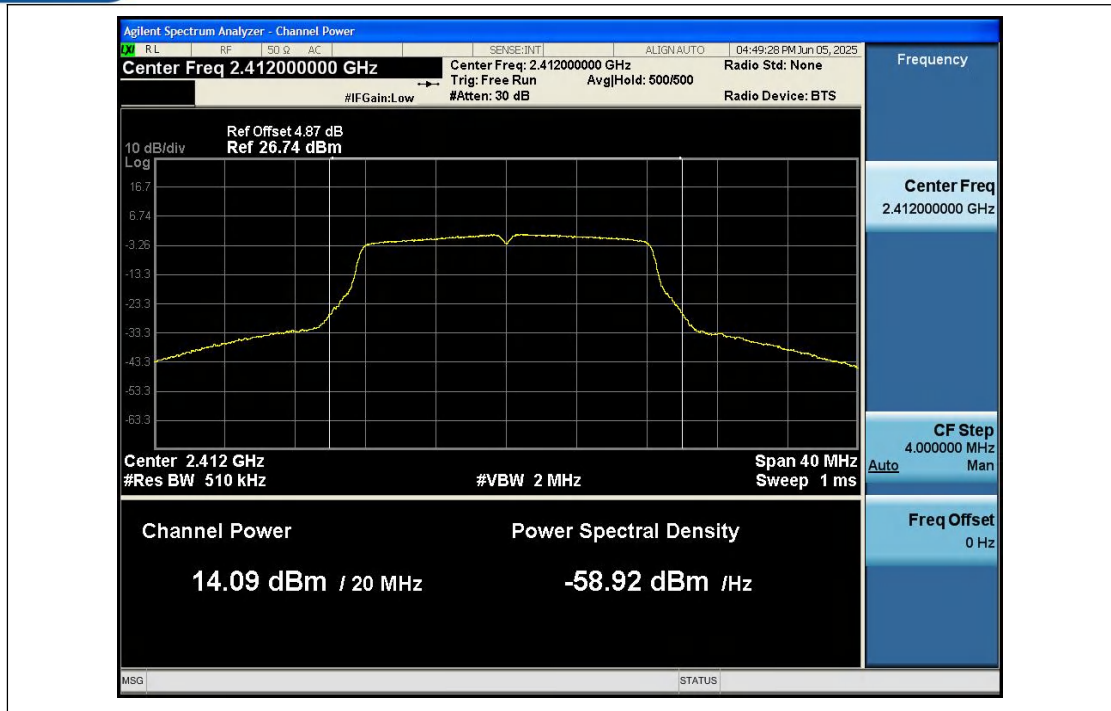
MAX__Output_Power_NVNT_ANT1_802_11b_2437



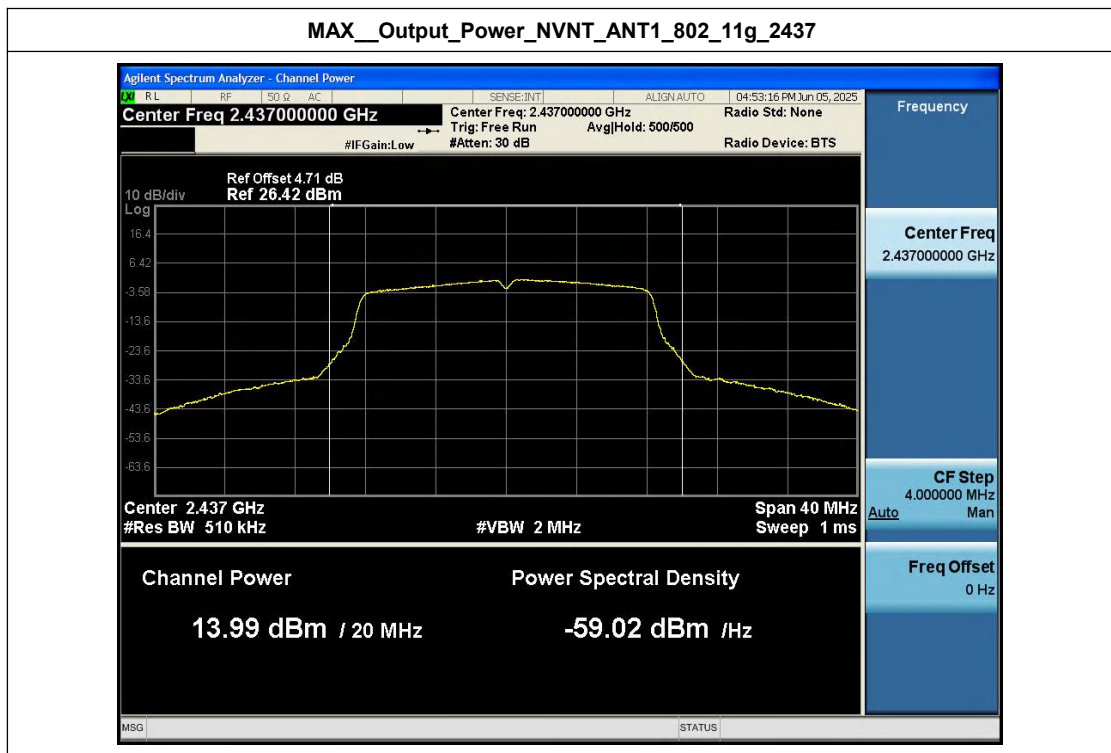
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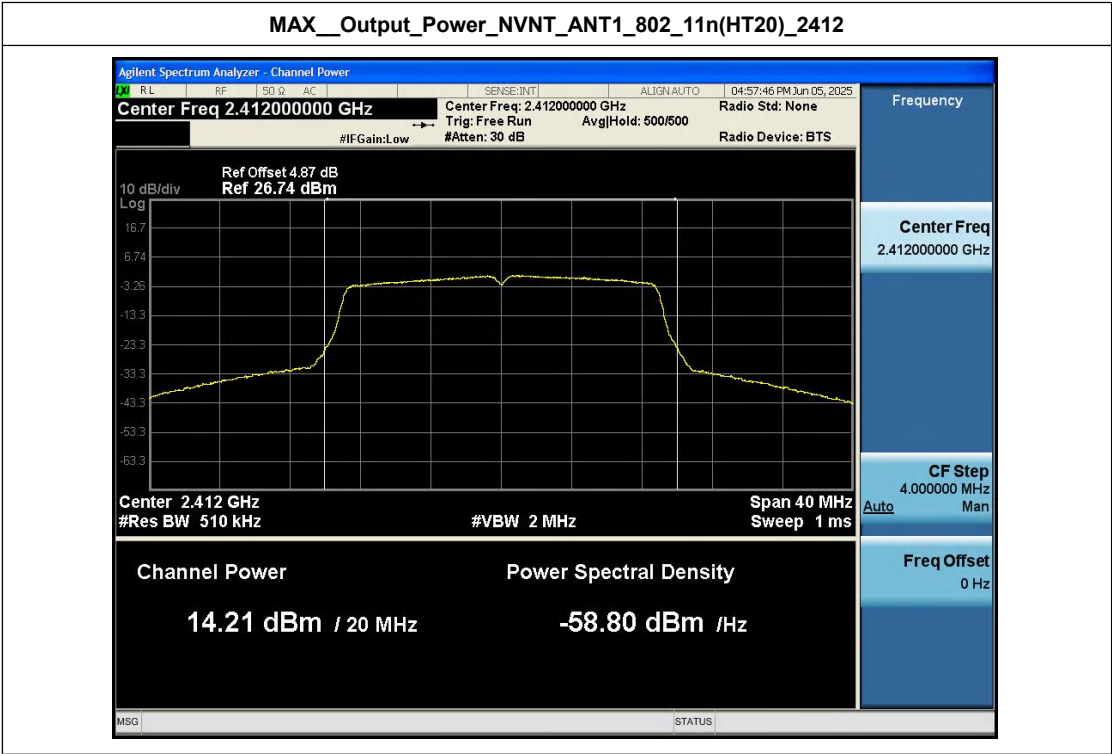
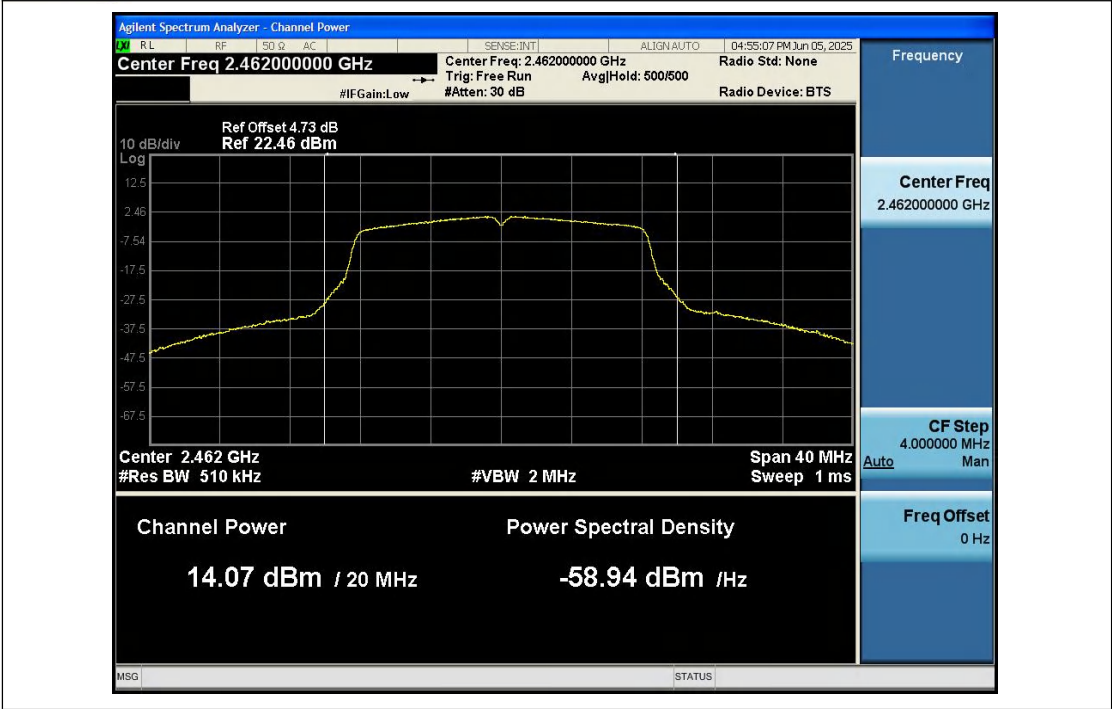
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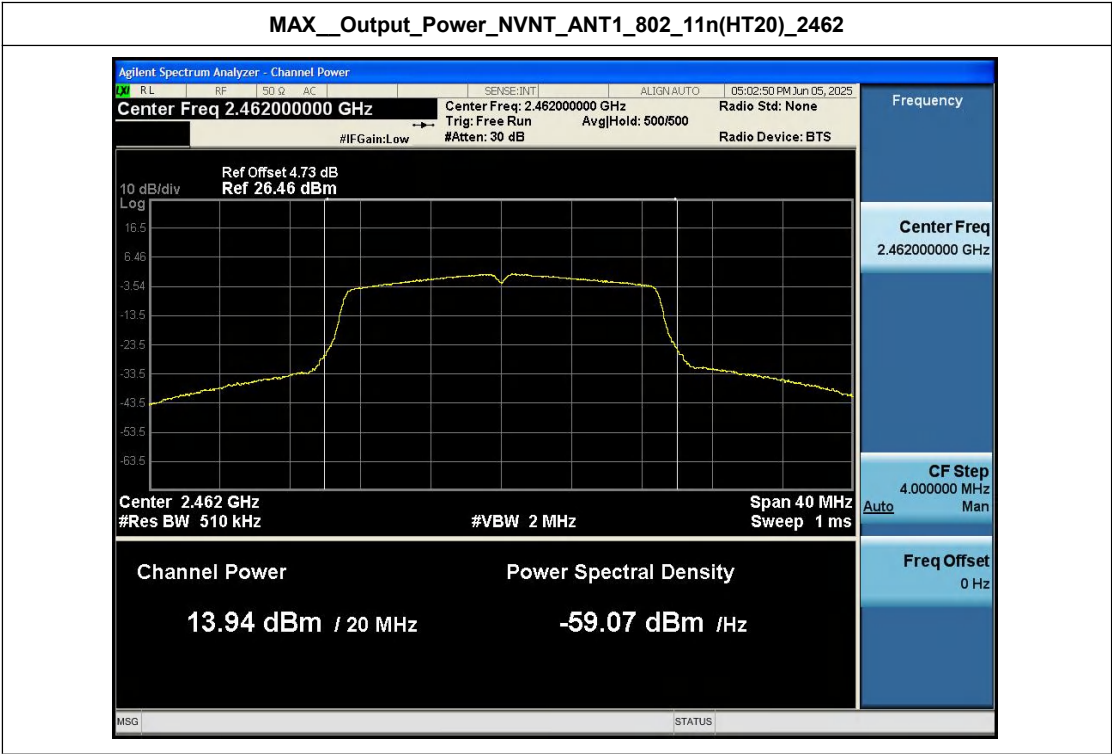
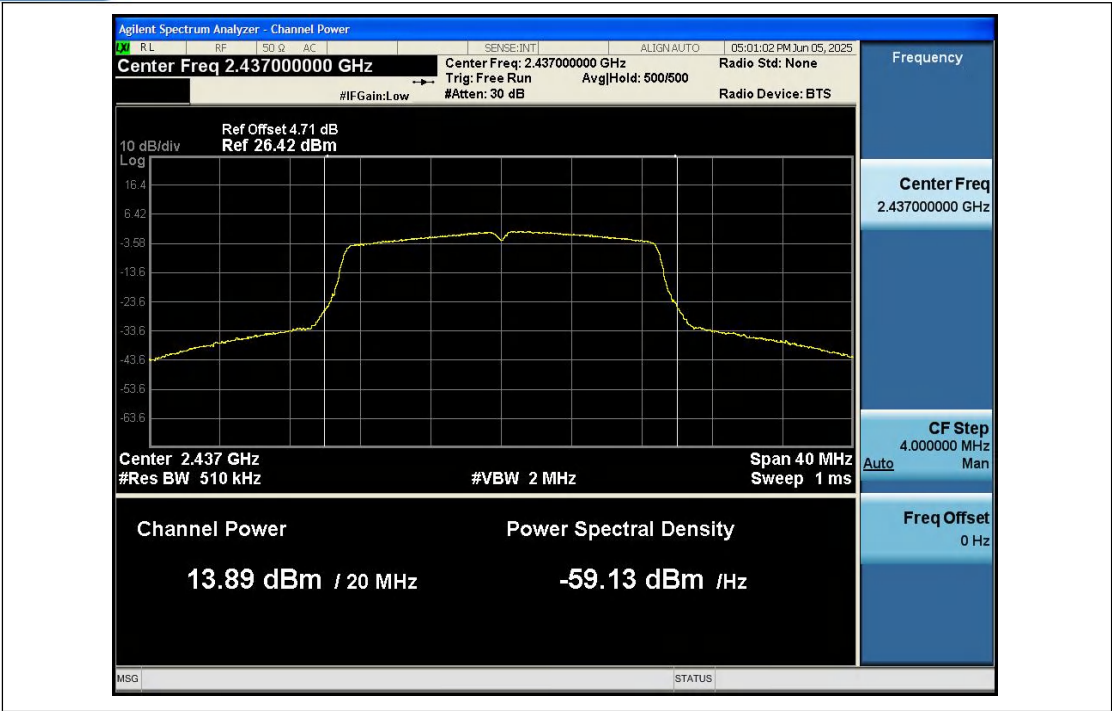
MAX__Output_Power_NVNT_ANT1_802_11g_2437



MAX__Output_Power_NVNT_ANT1_802_11g_2462



MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2437

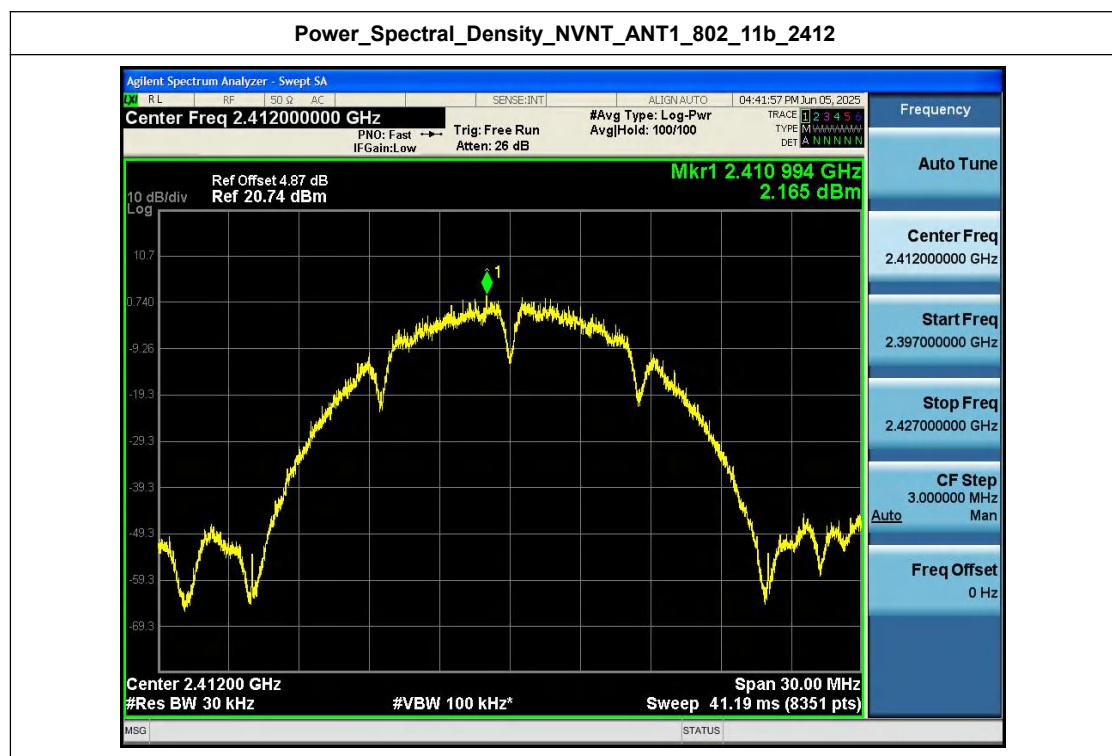


Appendix E: Power Spectral Density

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	2.17	0.00	-10.00	-7.83	8	Pass
NVNT	ANT1	802.11b	2437.00	1.91	0.00	-10.00	-8.09	8	Pass
NVNT	ANT1	802.11b	2462.00	1.65	0.00	-10.00	-8.35	8	Pass
NVNT	ANT1	802.11g	2412.00	-1.43	0.00	-10.00	-11.43	8	Pass
NVNT	ANT1	802.11g	2437.00	-1.69	0.00	-10.00	-11.69	8	Pass
NVNT	ANT1	802.11g	2462.00	-1.39	0.00	-10.00	-11.39	8	Pass
NVNT	ANT1	802.11n(HT 20)	2412.00	-0.82	0.00	-10.00	-10.82	8	Pass
NVNT	ANT1	802.11n(HT 20)	2437.00	-1.83	0.00	-10.00	-11.83	8	Pass
NVNT	ANT1	802.11n(HT 20)	2462.00	-2.03	0.00	-10.00	-12.03	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