

Appendix Test Data

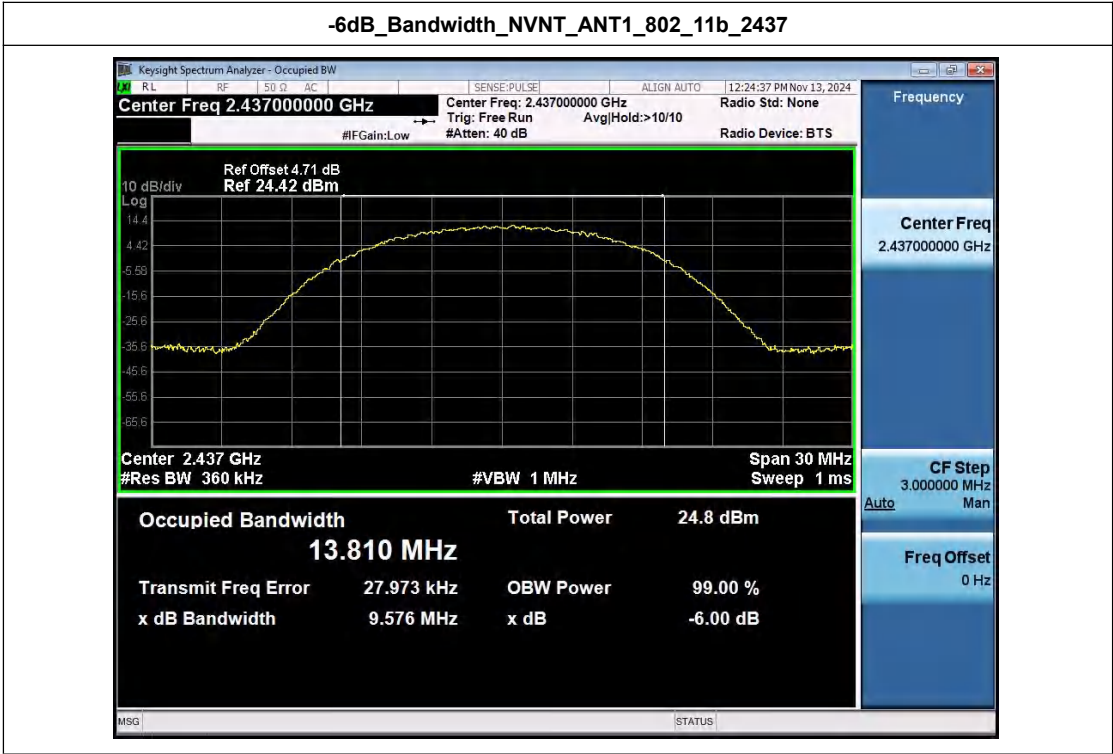
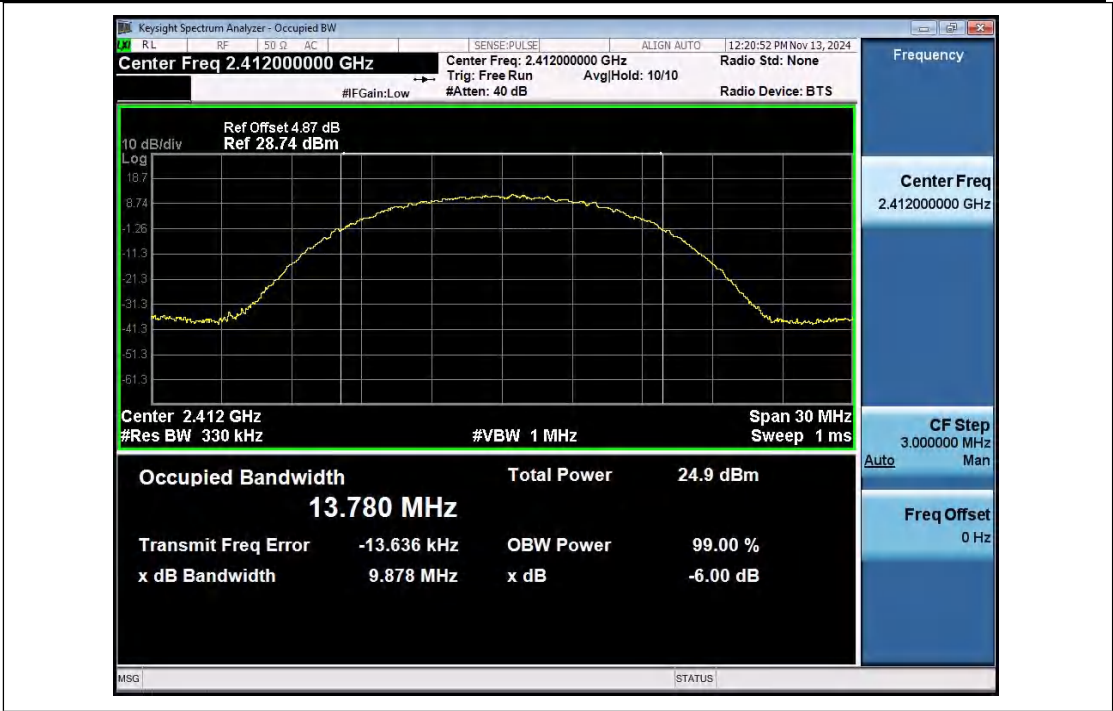
Report No.:	1812C40121412502	Test Sample No.:	1-2-2
Start Test Date:	2024.10.28	Finish Test Date:	2024.11.28
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	22.6℃	Relative Humidity:	53%
Pressure:	101kPa		

Appendix A: -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.88	500	Pass
NVNT	ANT1	802.11b	2437.00	9.58	500	Pass
NVNT	ANT1	802.11b	2462.00	9.91	500	Pass
NVNT	ANT1	802.11g	2412.00	16.46	500	Pass
NVNT	ANT1	802.11g	2437.00	16.50	500	Pass
NVNT	ANT1	802.11g	2462.00	16.53	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.75	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.76	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.76	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	36.18	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	36.17	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	36.06	500	Pass

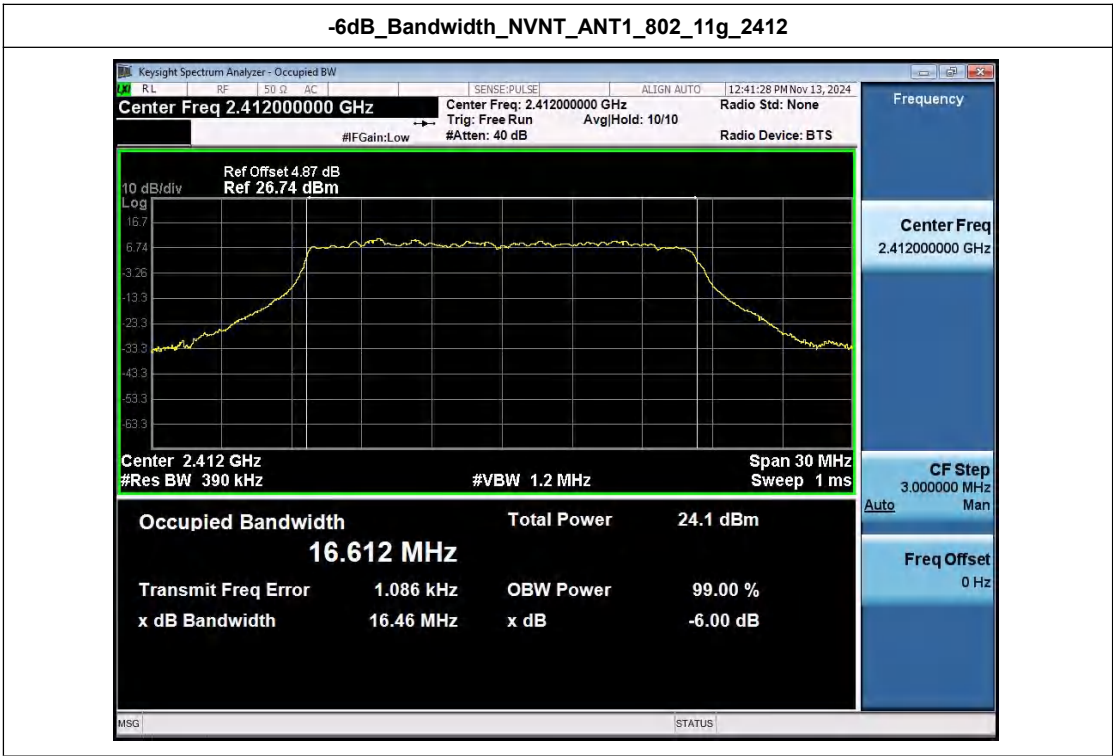
-6dB_Bandwidth_NVNT_ANT1_802_11b_2412





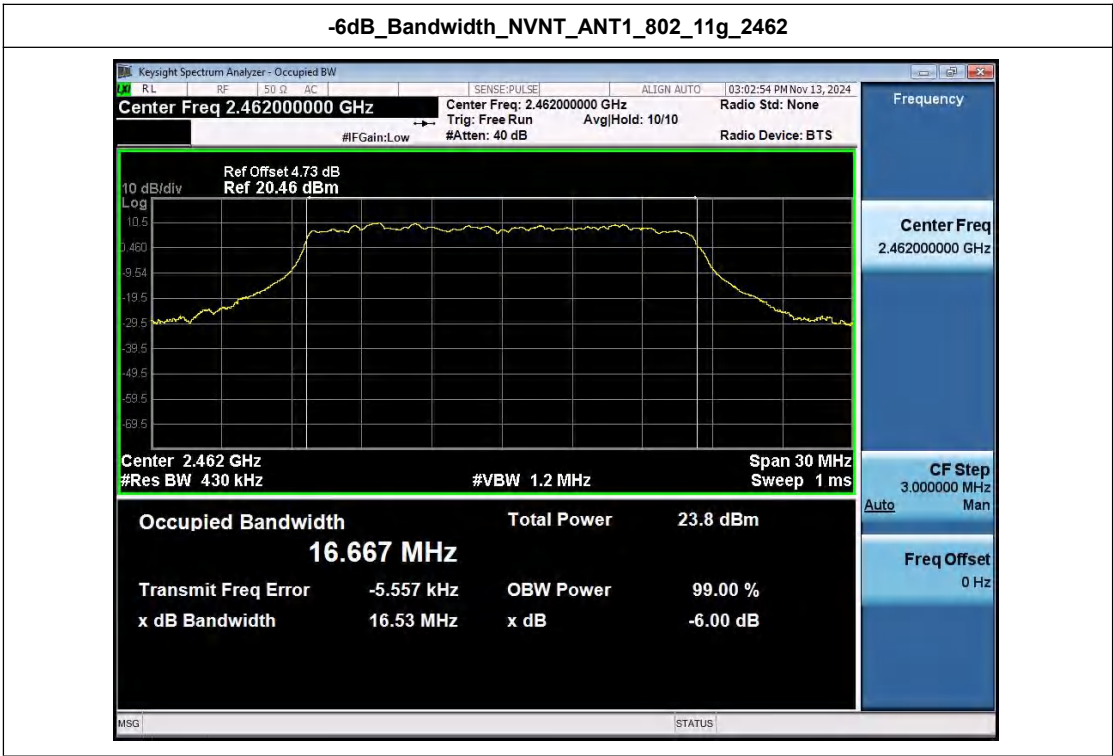
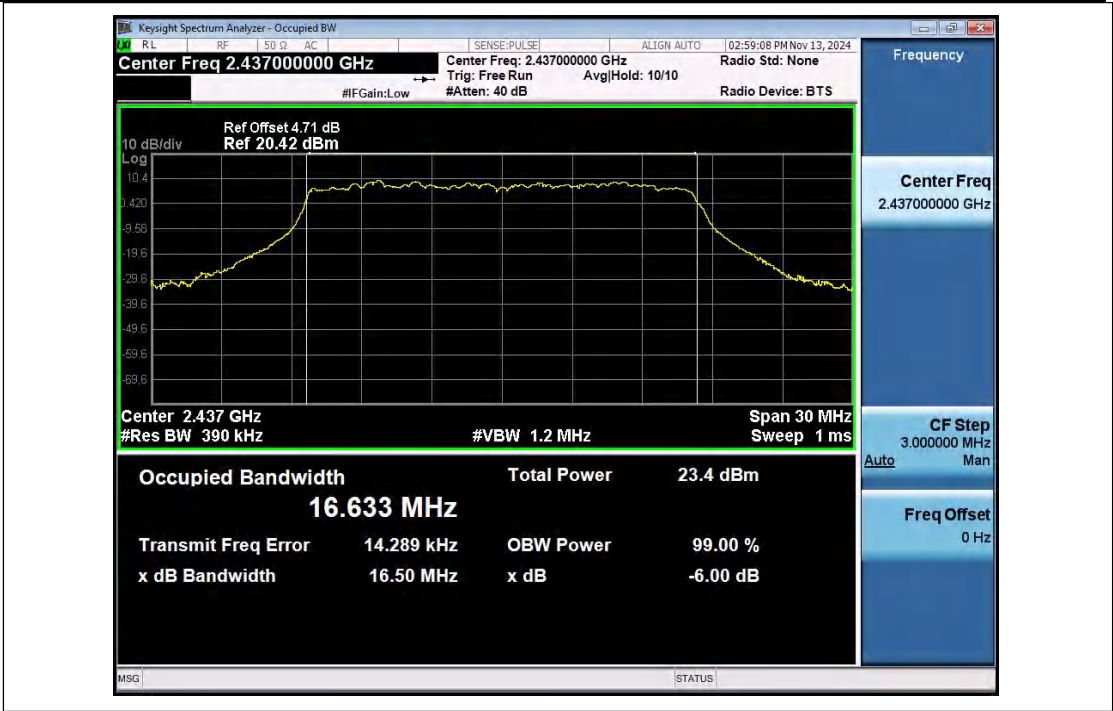
-6dB_Bandwidth_NVNT_ANT1_802_11b_2462





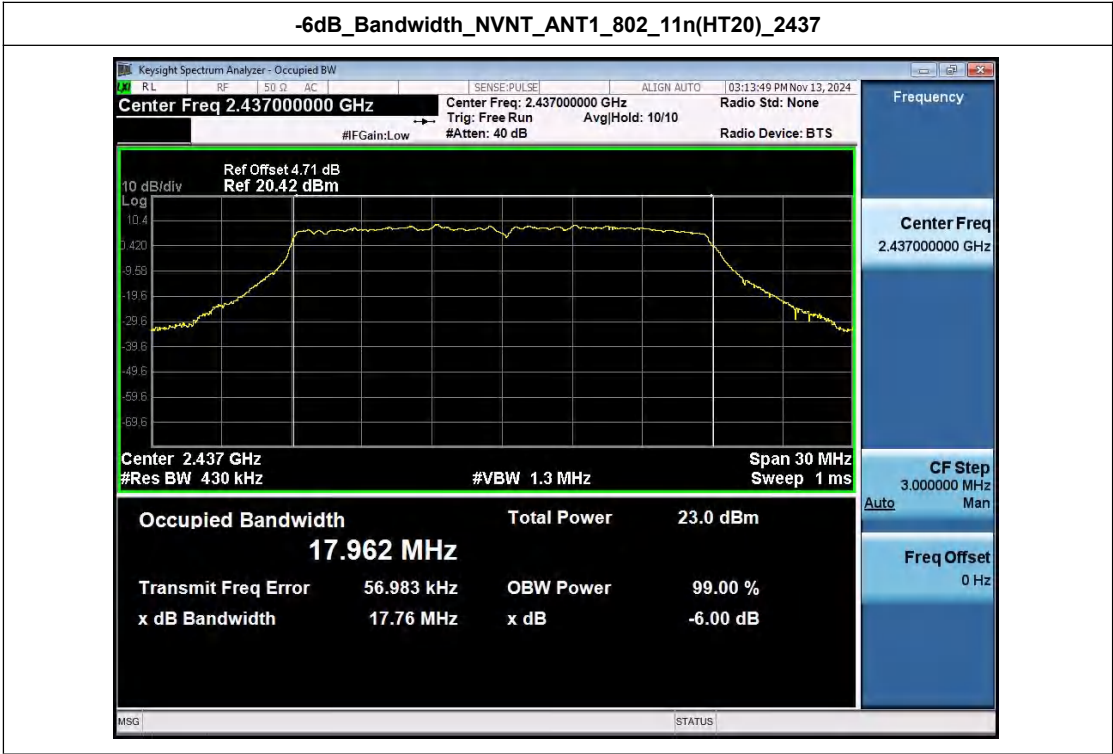
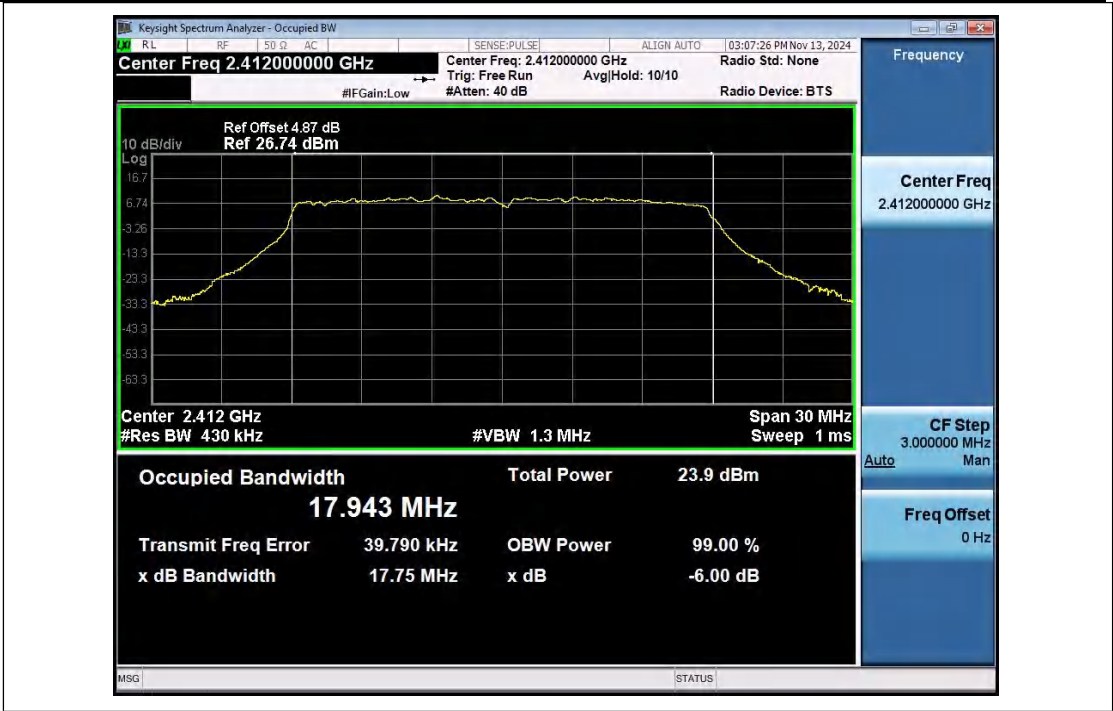
-6dB_Bandwidth_NVNT_ANT1_802_11g_2437





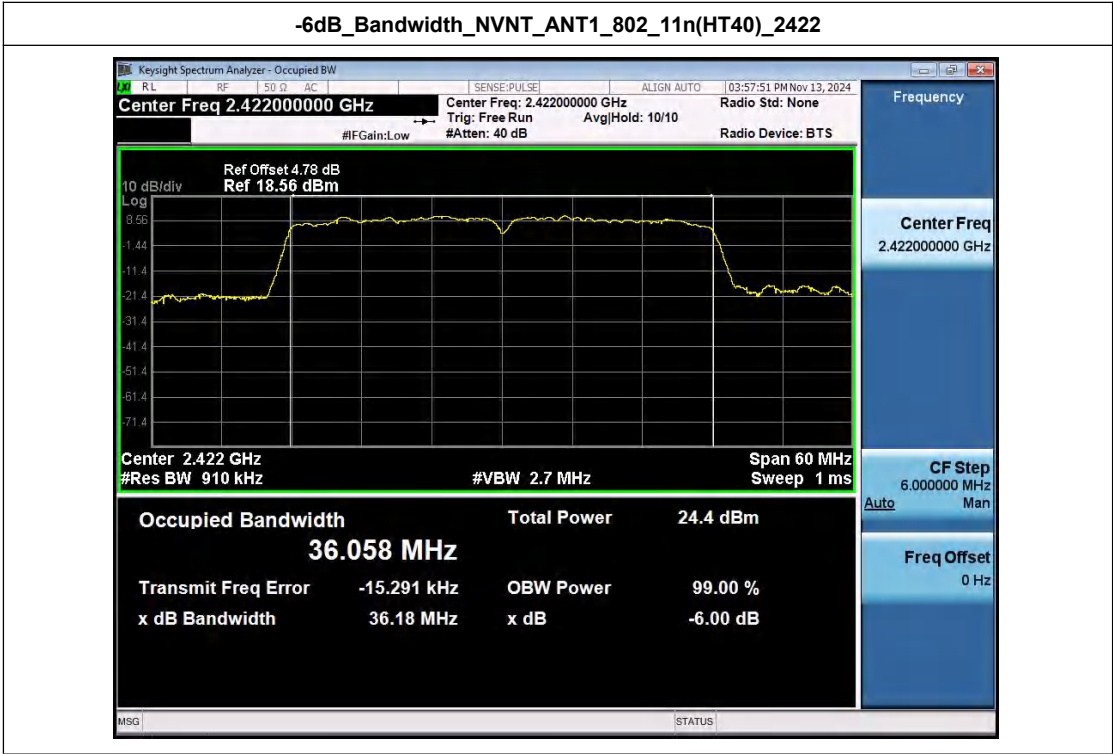
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412





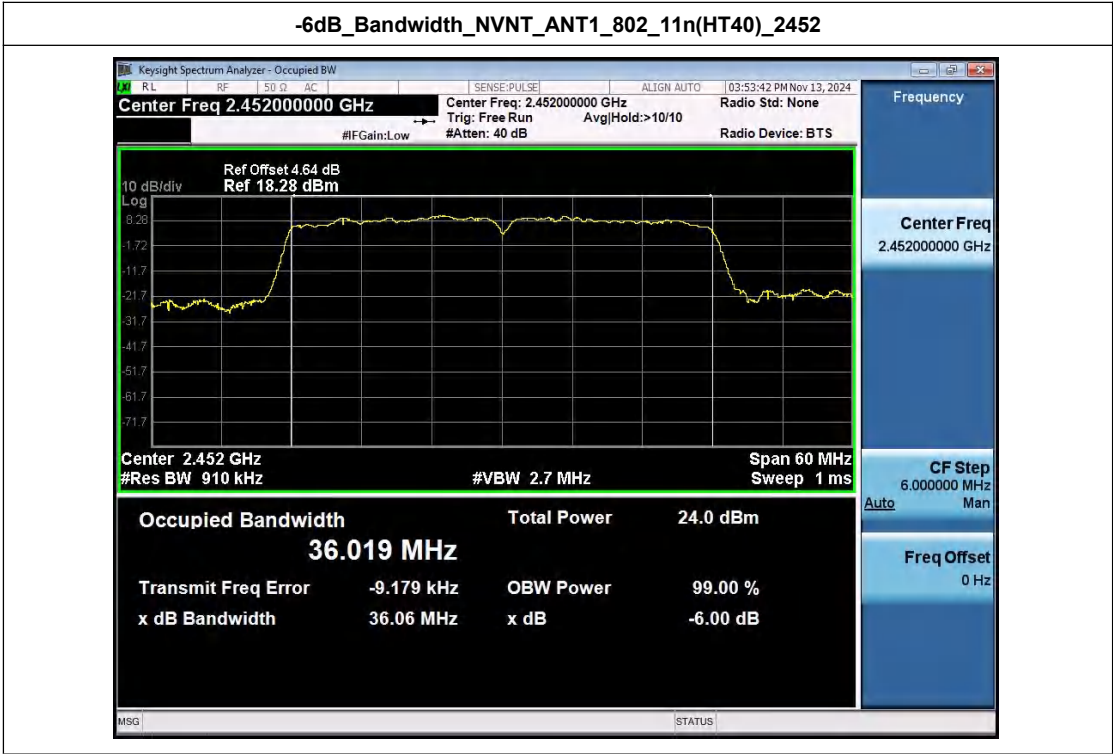
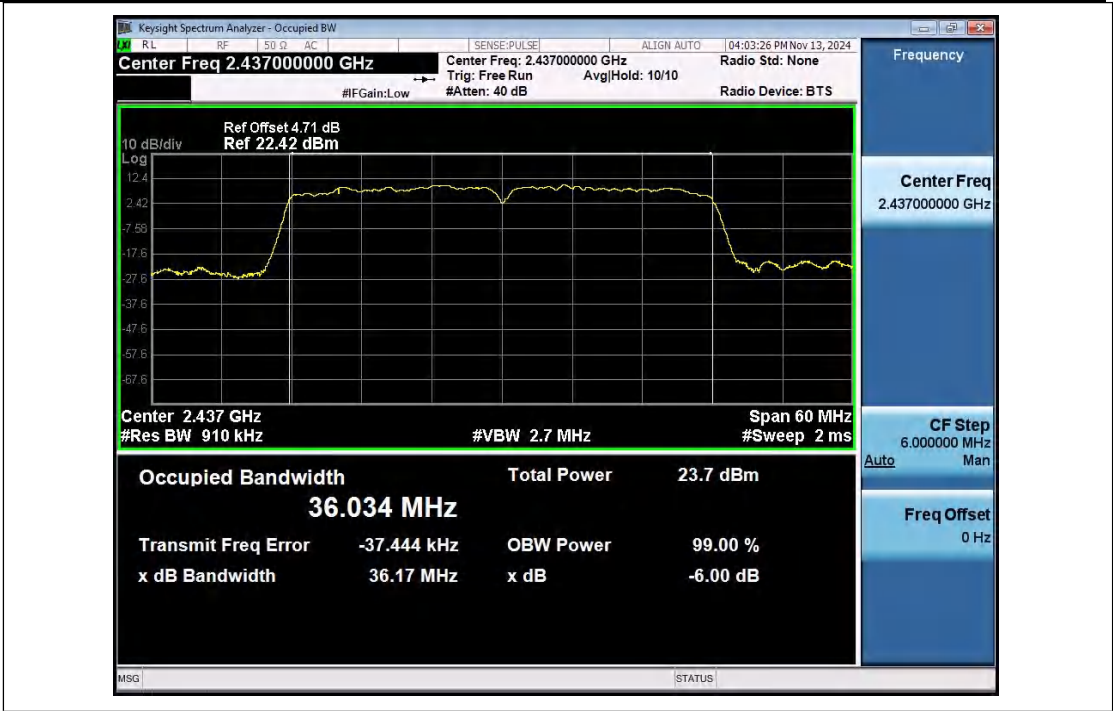
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462





-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437





Appendix B: 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%BW(MHz)
NVNT	ANT1	802.11b	2412.00	13.785
NVNT	ANT1	802.11b	2437.00	13.830
NVNT	ANT1	802.11b	2462.00	13.825
NVNT	ANT1	802.11g	2412.00	16.680
NVNT	ANT1	802.11g	2437.00	16.703
NVNT	ANT1	802.11g	2462.00	16.712
NVNT	ANT1	802.11n(HT20)	2412.00	17.995
NVNT	ANT1	802.11n(HT20)	2437.00	18.012
NVNT	ANT1	802.11n(HT20)	2462.00	18.045
NVNT	ANT1	802.11n(HT40)	2422.00	36.043
NVNT	ANT1	802.11n(HT40)	2437.00	36.029
NVNT	ANT1	802.11n(HT40)	2452.00	36.025

99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2412



99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2437





99% Occupied Bandwidth NVNT_ANT1_802_11b_2462

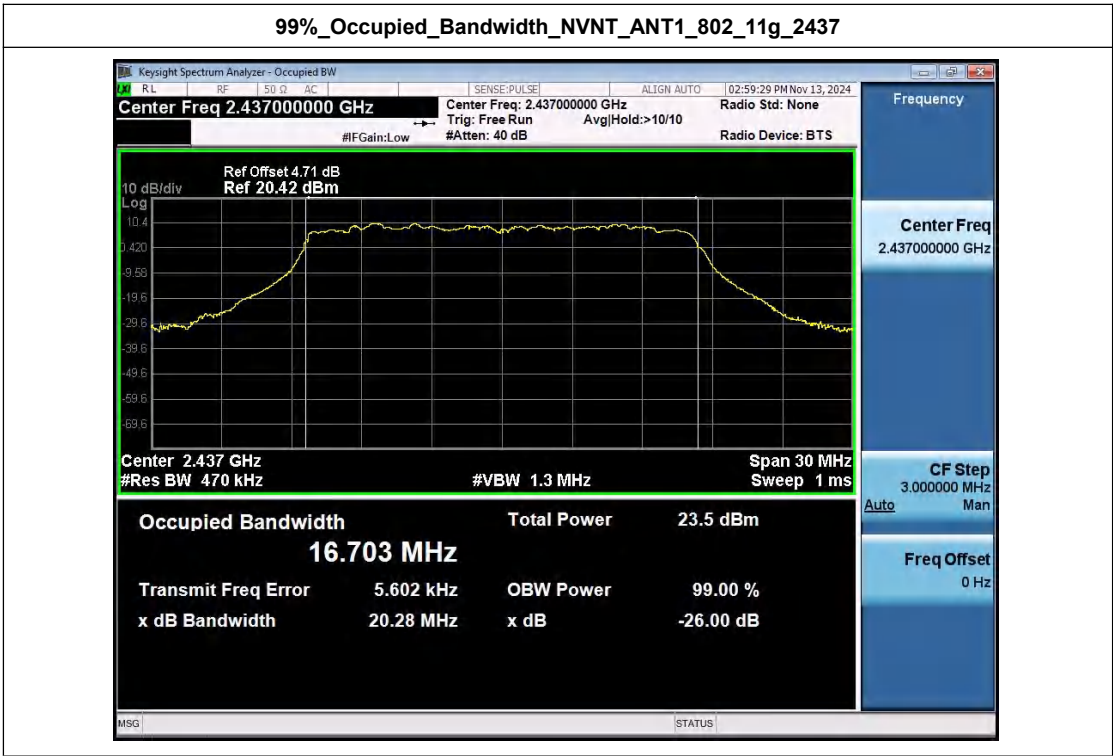


99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2412



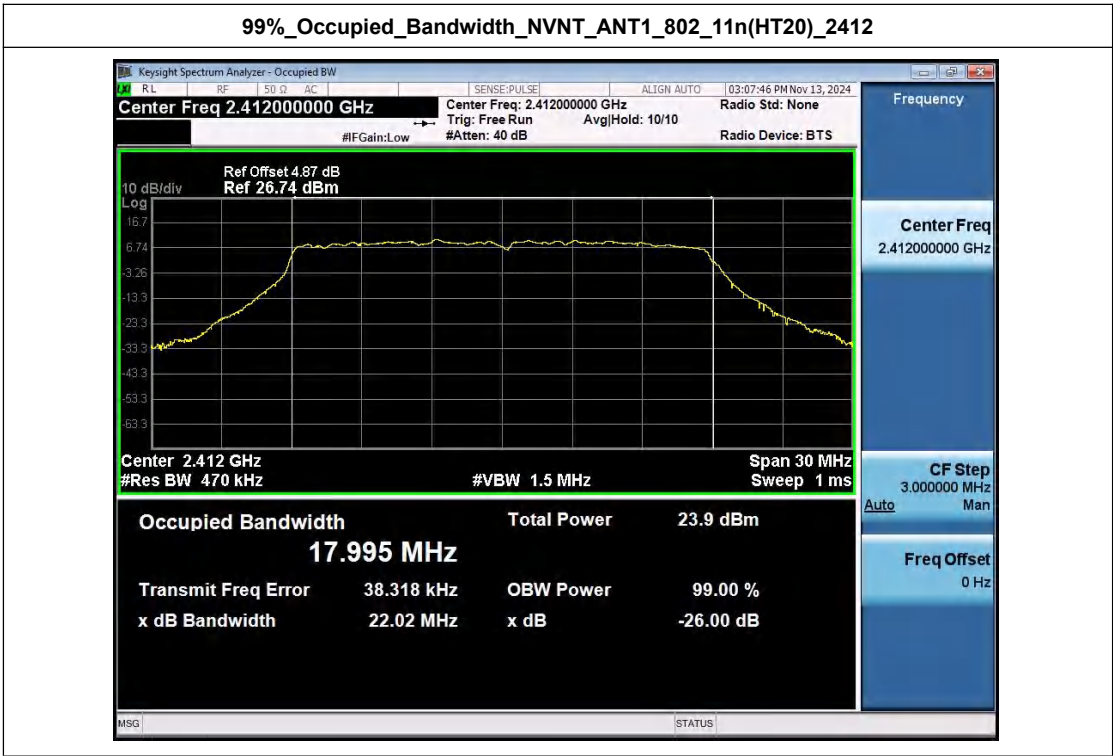
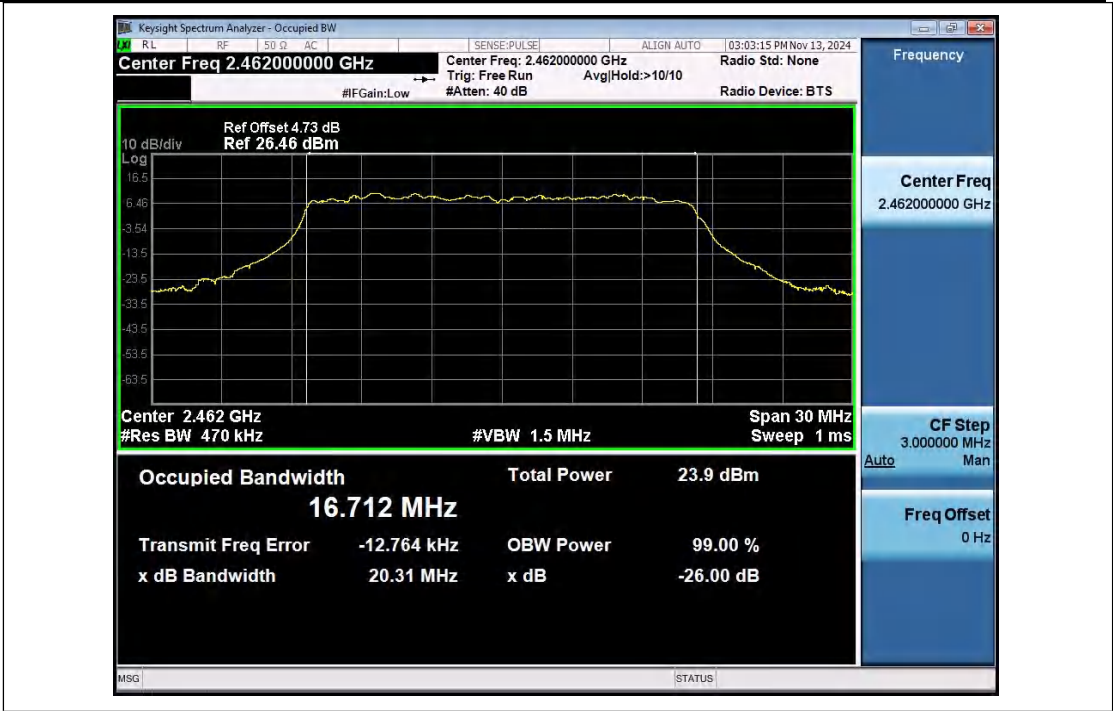


99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2437



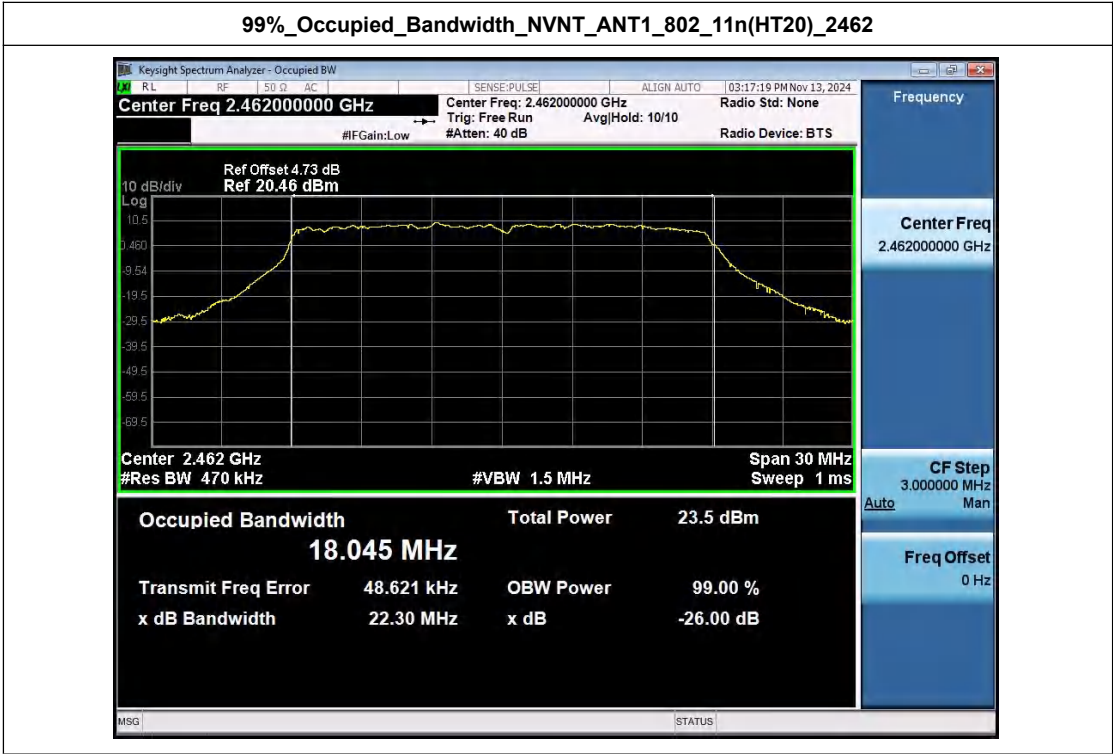
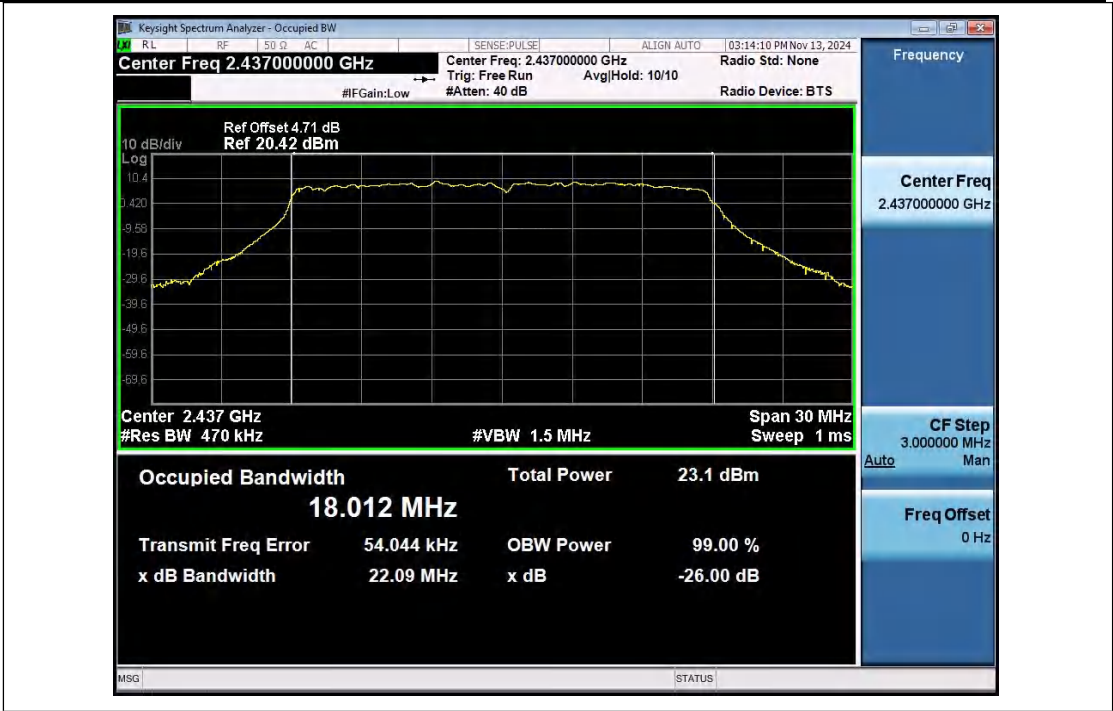
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2462





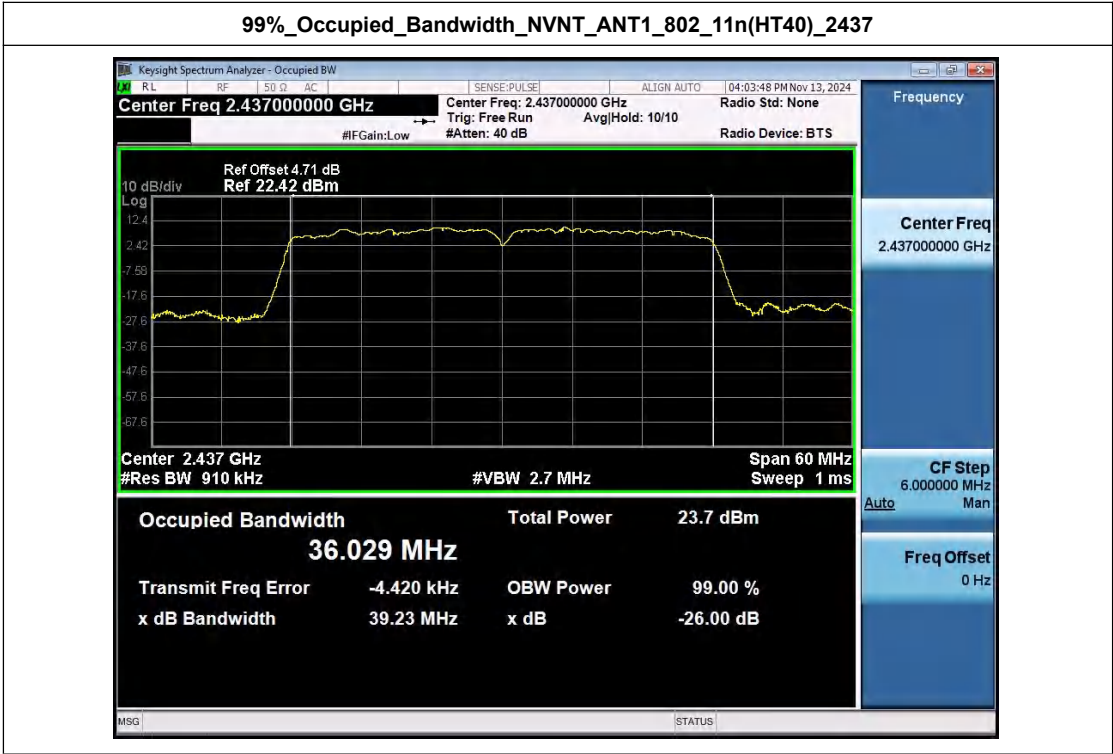
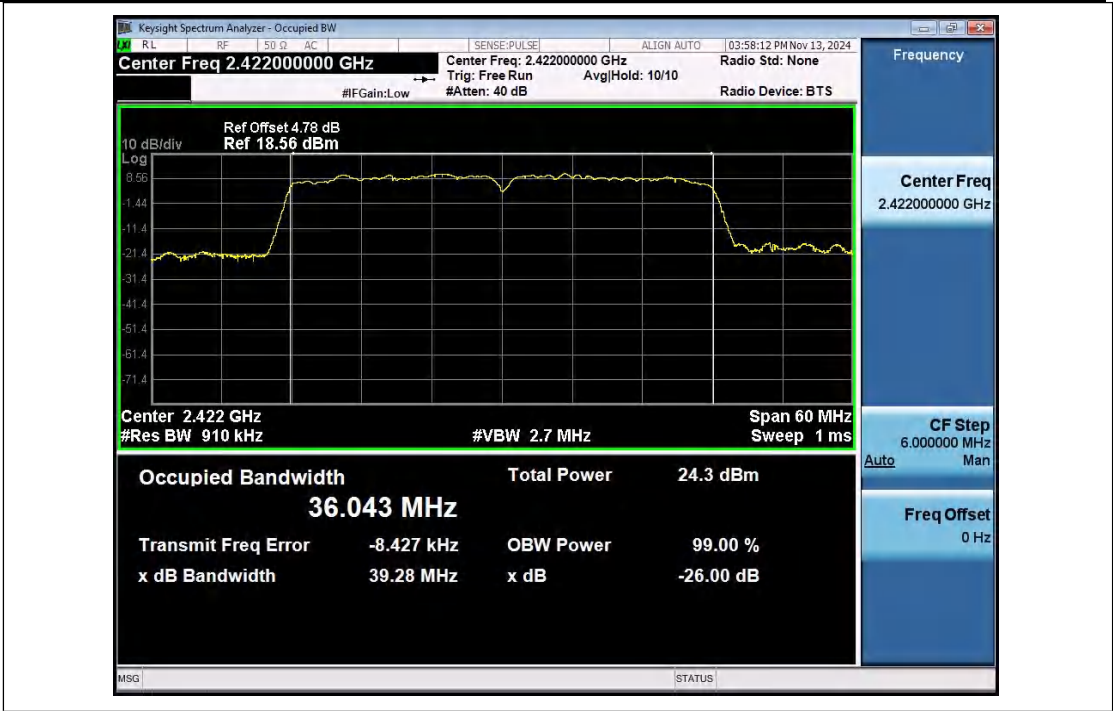
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437





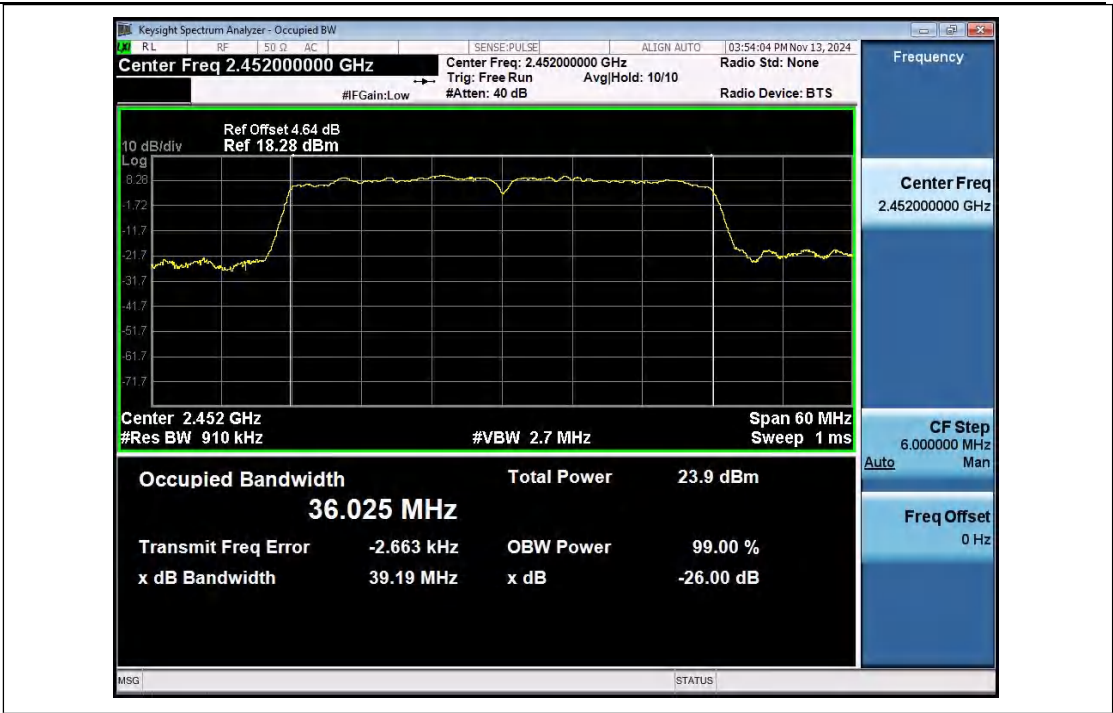
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422





99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452





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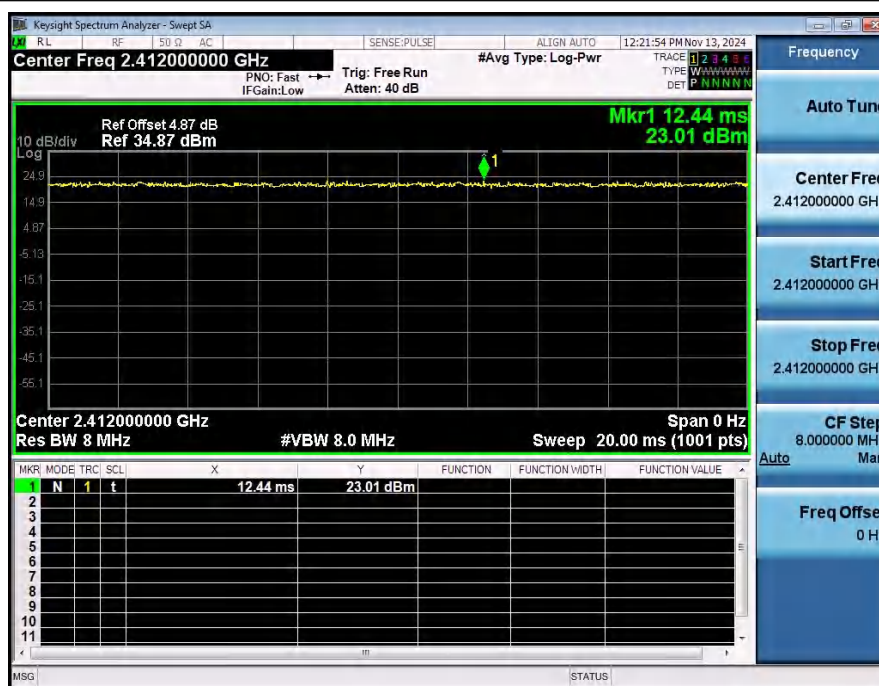
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Appendix C: Duty Cycle

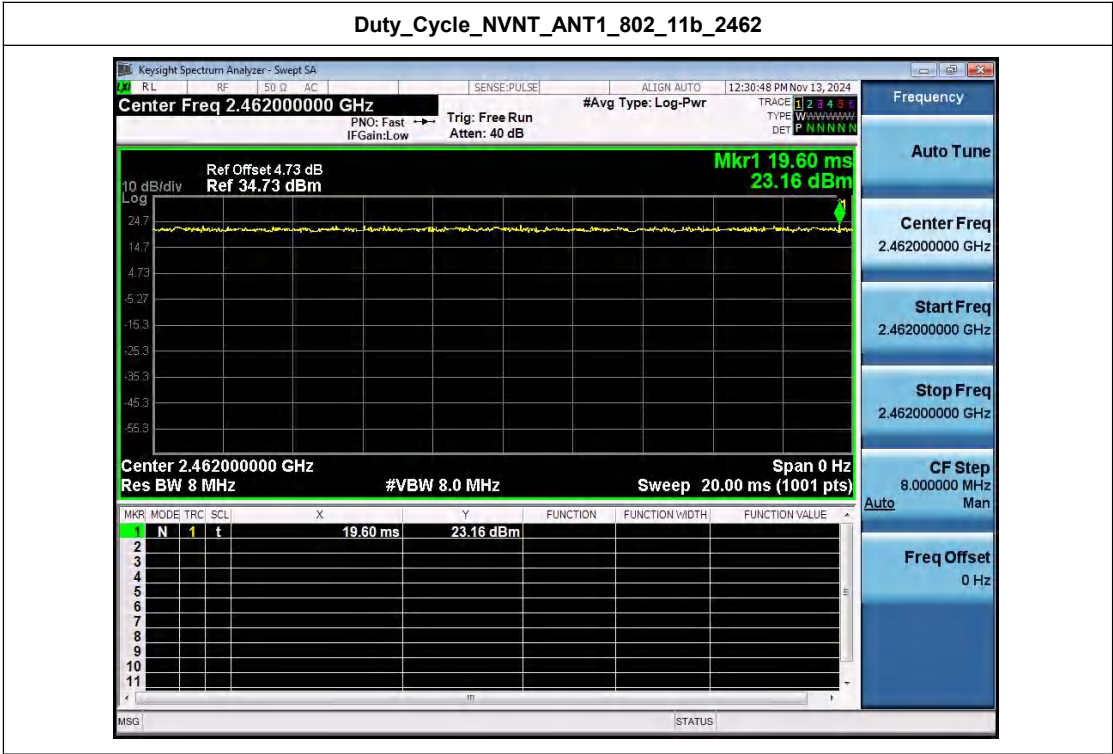
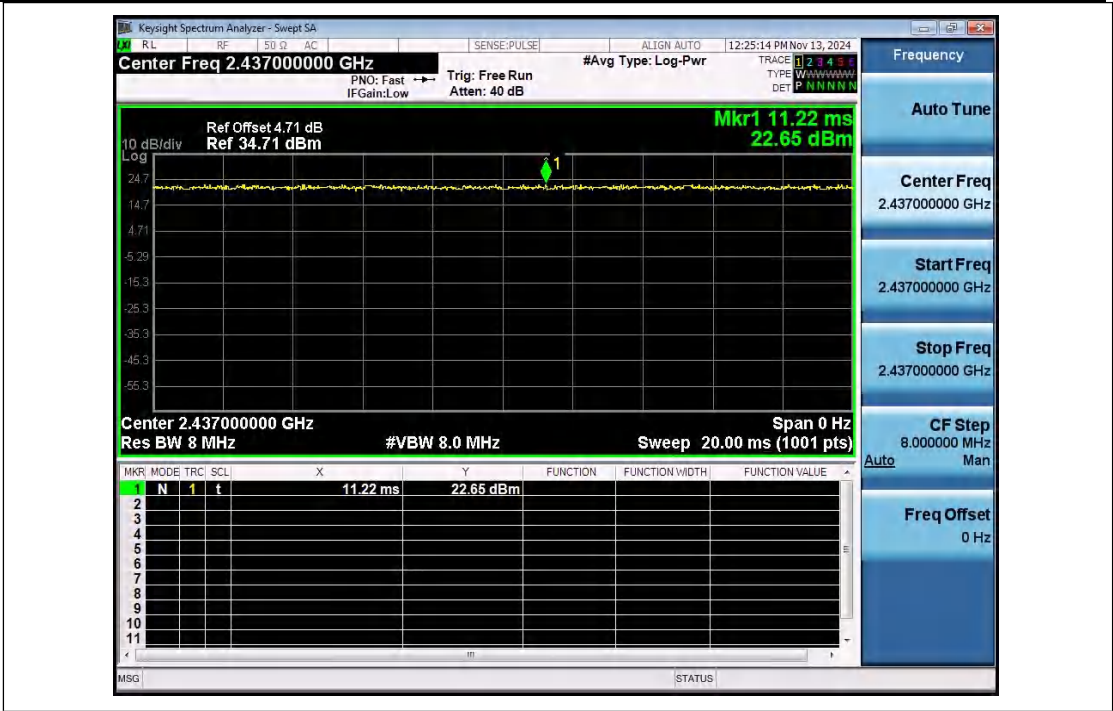
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	100	0.00
NVNT	ANT1	802.11b	2437.00	100	0.00
NVNT	ANT1	802.11b	2462.00	100	0.00
NVNT	ANT1	802.11g	2412.00	31.58	5.01
NVNT	ANT1	802.11g	2437.00	32.43	4.89
NVNT	ANT1	802.11g	2462.00	32.43	4.89
NVNT	ANT1	802.11n(HT20)	2412.00	33.33	4.77
NVNT	ANT1	802.11n(HT20)	2437.00	30.56	5.15
NVNT	ANT1	802.11n(HT20)	2462.00	33.33	4.77
NVNT	ANT1	802.11n(HT40)	2422.00	21.88	6.60
NVNT	ANT1	802.11n(HT40)	2437.00	21.88	6.60
NVNT	ANT1	802.11n(HT40)	2452.00	19.35	7.13

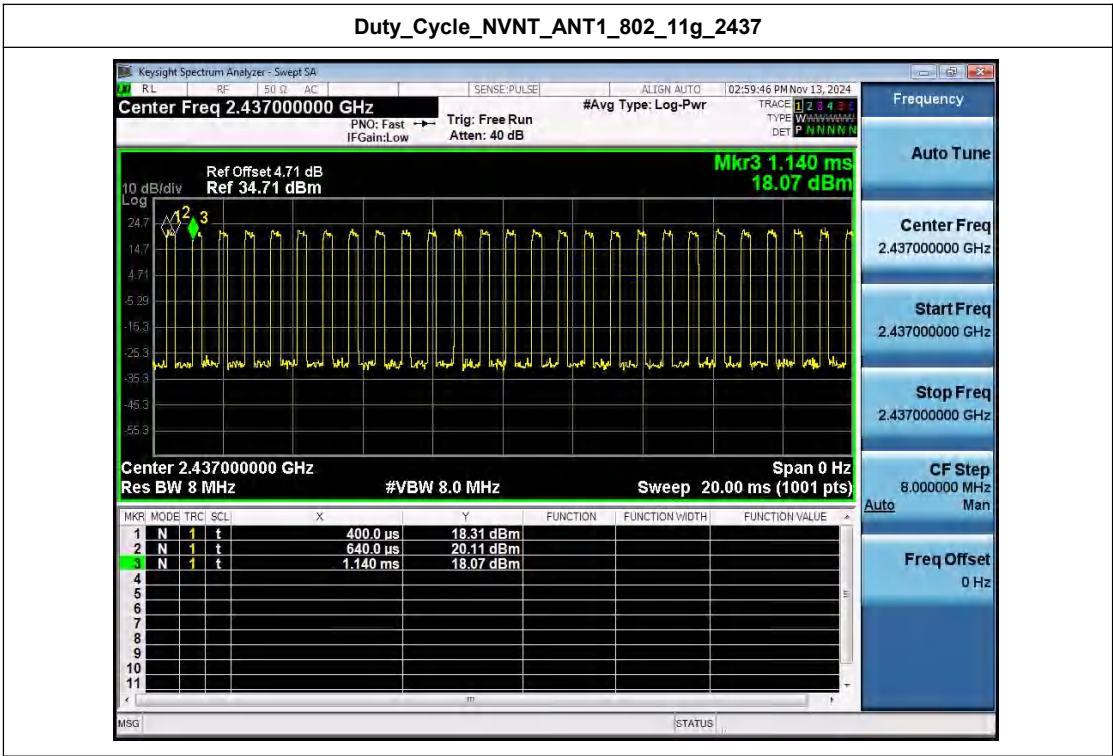
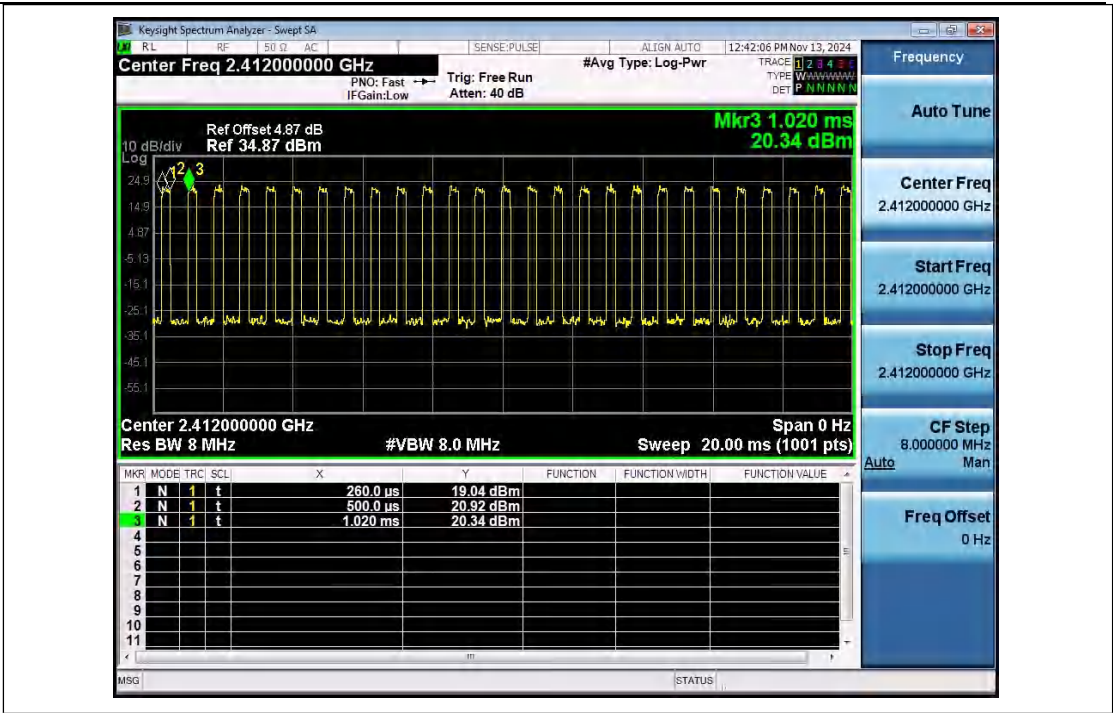
Duty_Cycle_NVNT_ANT1_802_11b_2412



Duty_Cycle_NVNT_ANT1_802_11b_2437

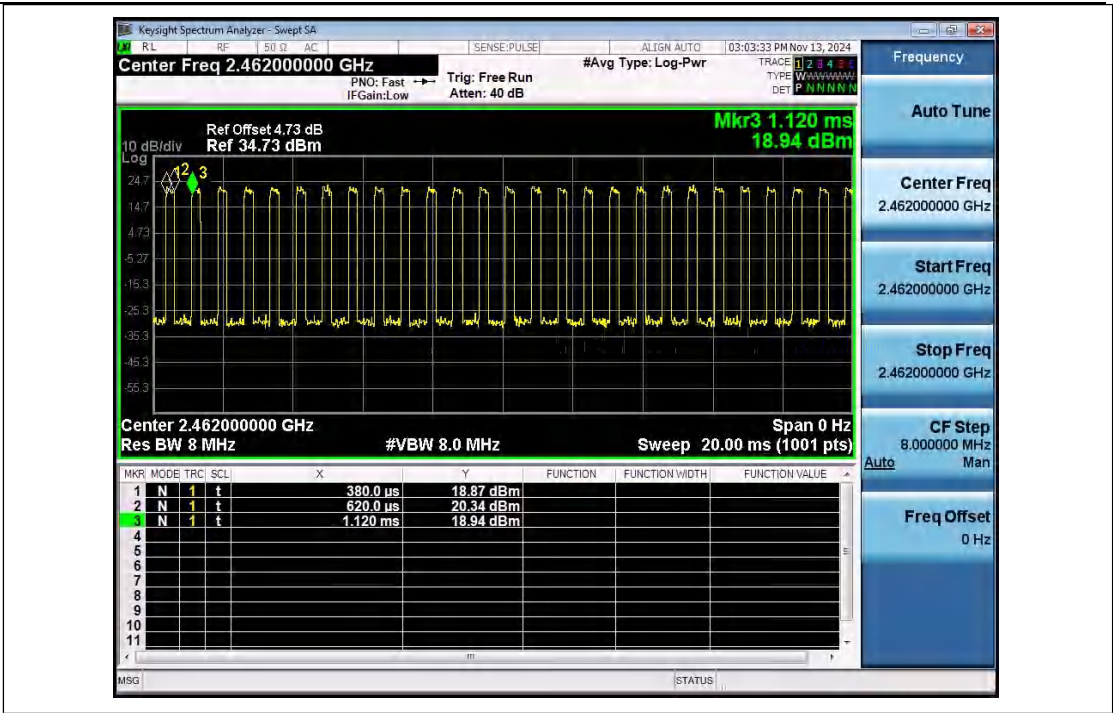




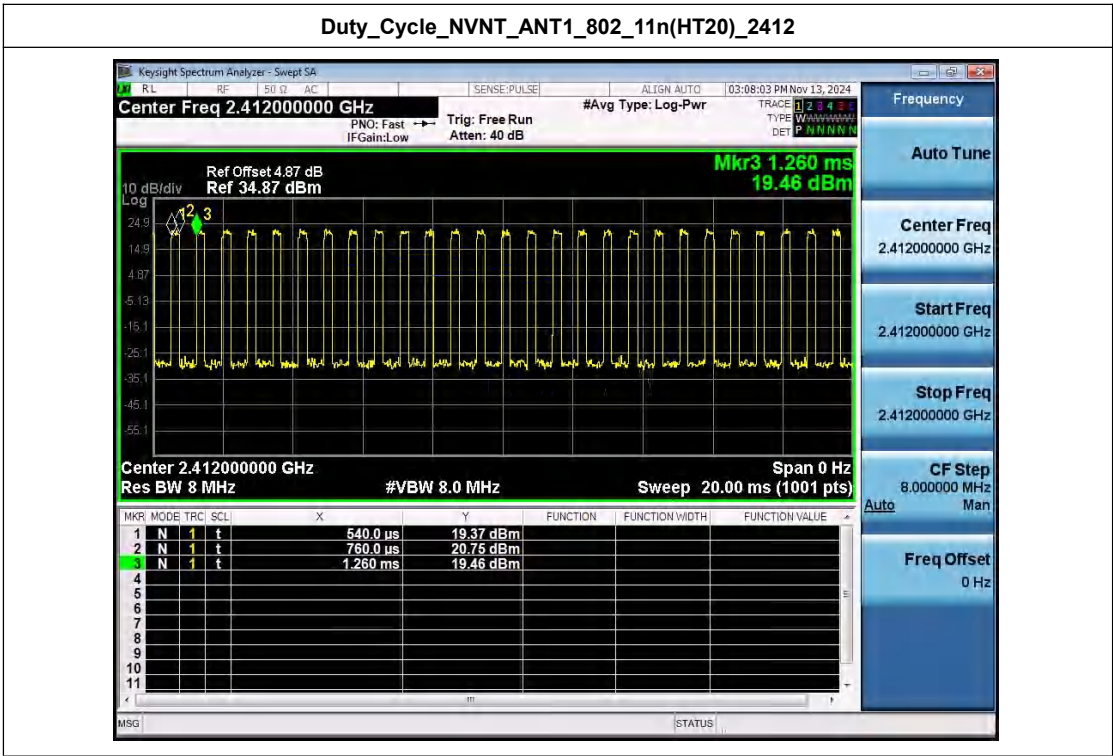


Duty_Cycle_NVNT_ANT1_802_11g_2462



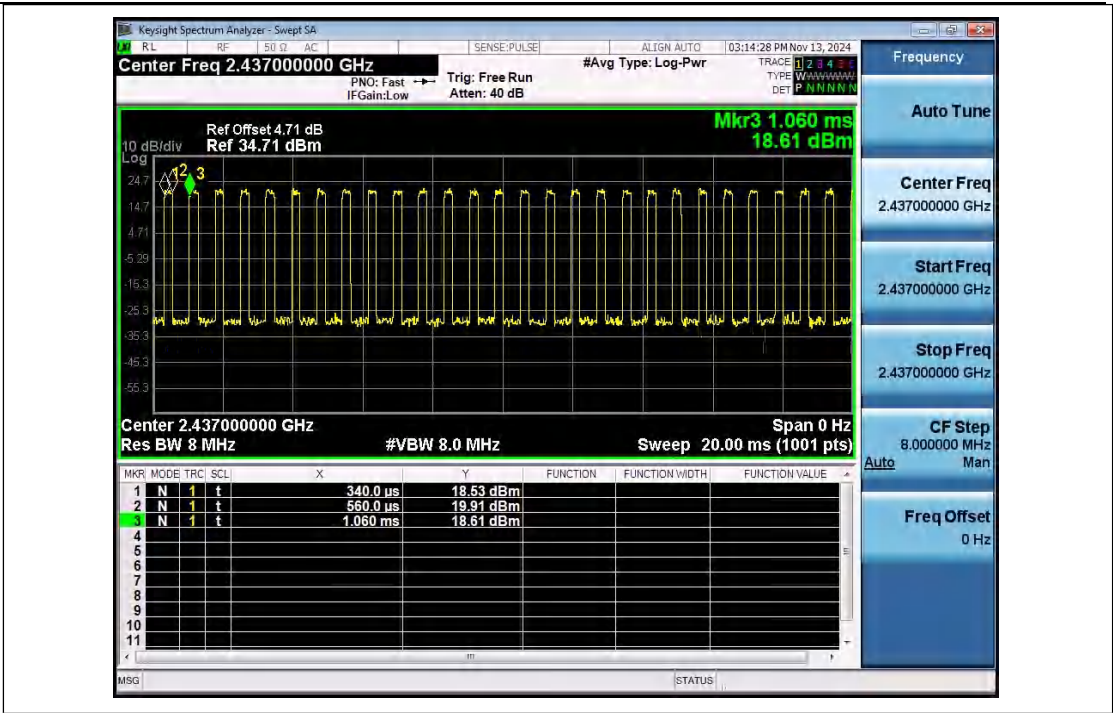


Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412

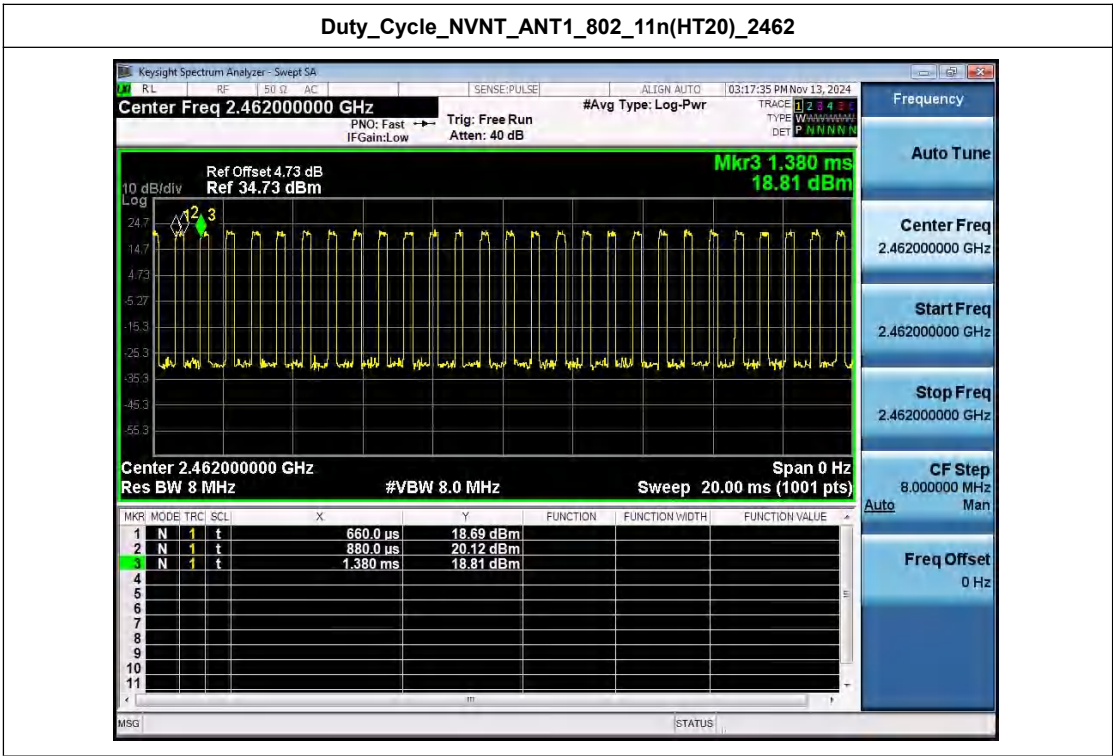


Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



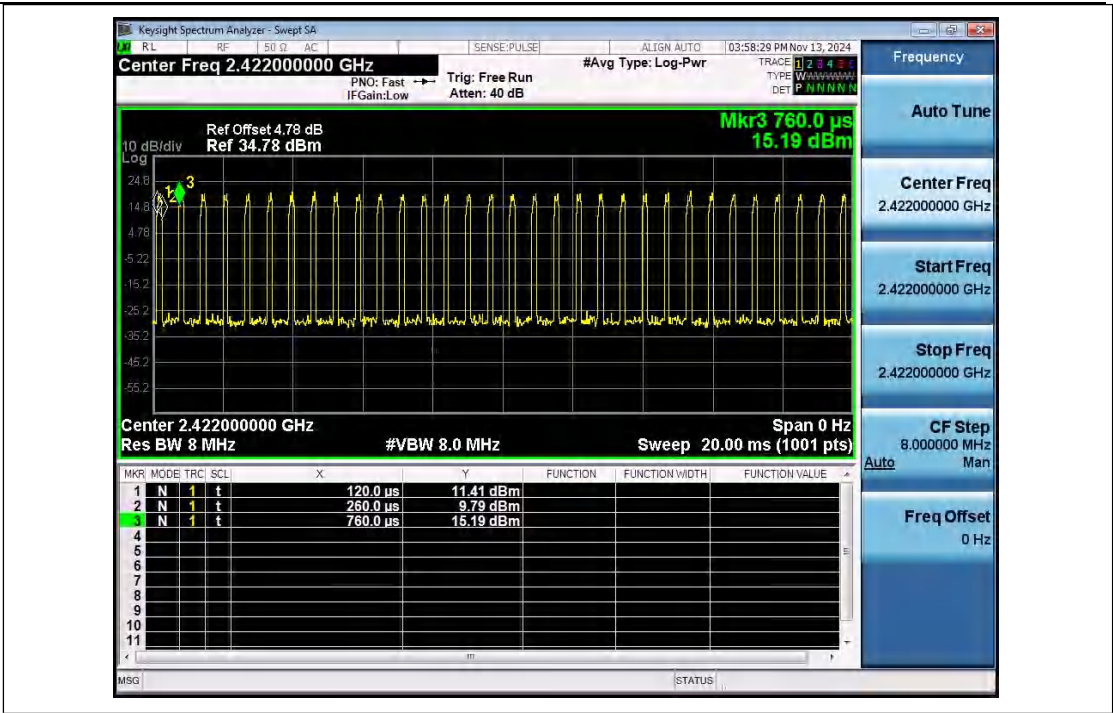


Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462

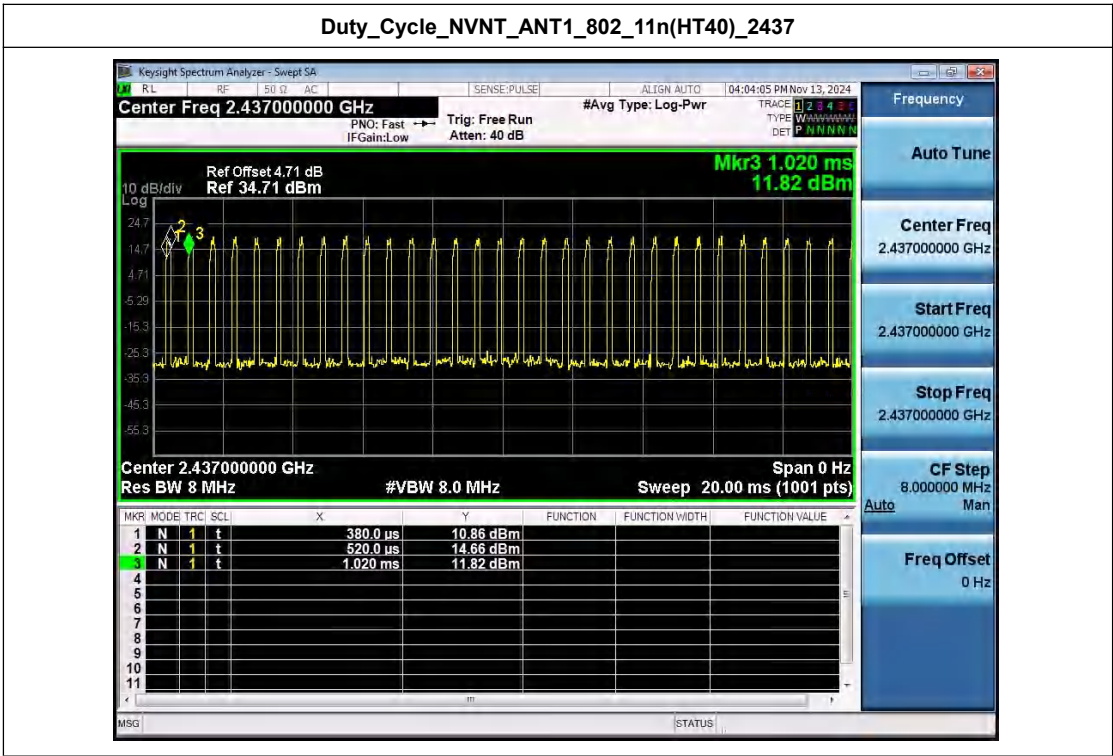


Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2422



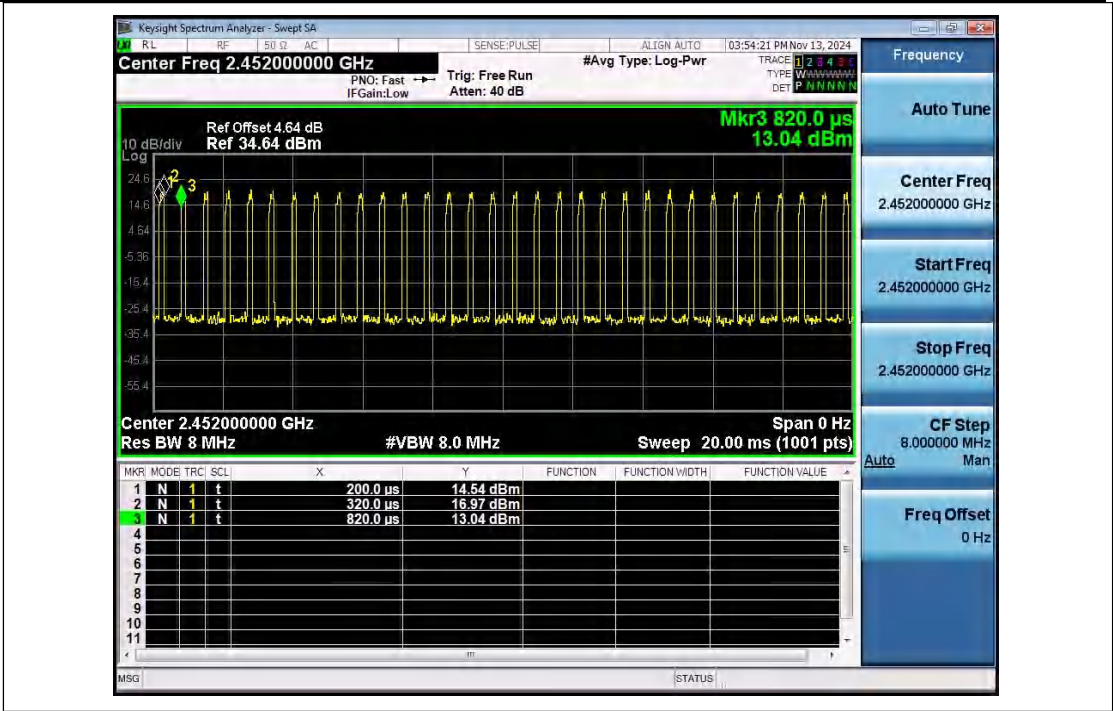


Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2437



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2452





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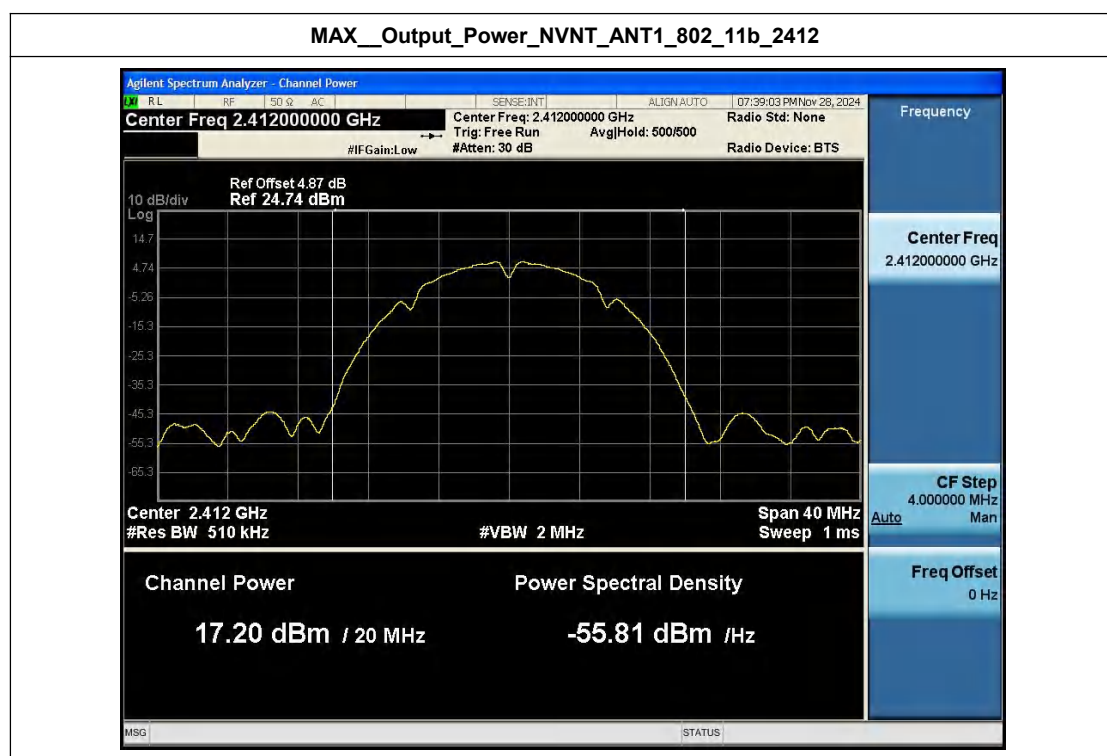
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Appendix D: MAX. Output Power

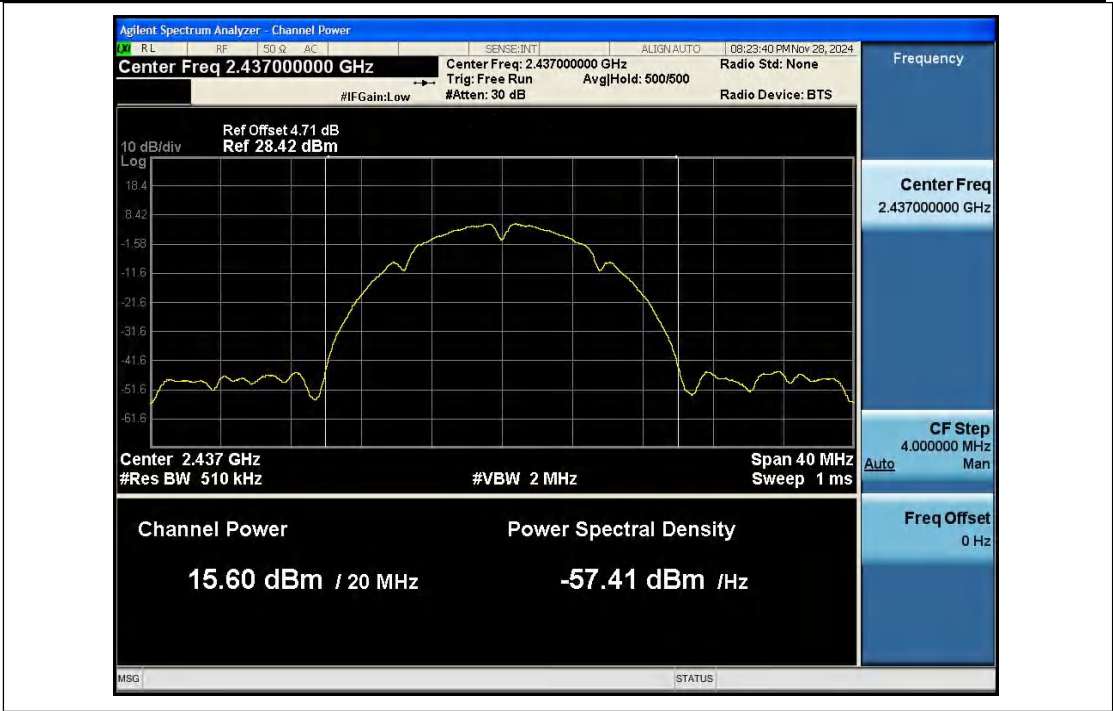
Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power (dBm)	Duty factor (dB)	Total Power (dBm)	Limit (dBm)	Result
NVNT	ANT1	802.11b	2412.00	RMS	17.20	0.25	17.45	30	Pass
NVNT	ANT1	802.11b	2437.00	RMS	15.60	0.25	15.85	30	Pass
NVNT	ANT1	802.11b	2462.00	RMS	15.37	0.20	15.57	30	Pass
NVNT	ANT1	802.11g	2412.00	RMS	16.32	1.43	17.75	30	Pass
NVNT	ANT1	802.11g	2437.00	RMS	14.90	0.94	15.84	30	Pass
NVNT	ANT1	802.11g	2462.00	RMS	14.68	1.36	16.04	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	RMS	15.88	1.46	17.34	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	RMS	14.62	1.44	16.06	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	RMS	14.38	1.44	15.82	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	RMS	14.24	2.60	16.84	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	RMS	14.27	2.52	16.79	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	RMS	14.13	2.37	16.50	30	Pass

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



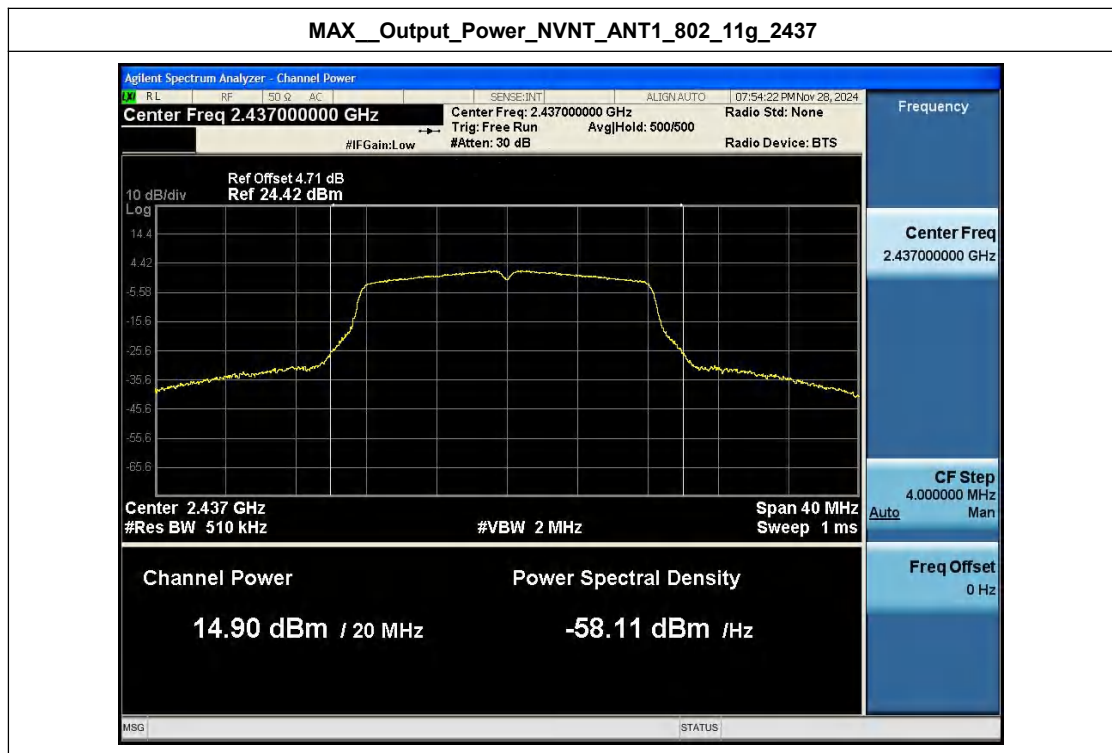
MAX__Output_Power_NVNT_ANT1_802_11b_2437





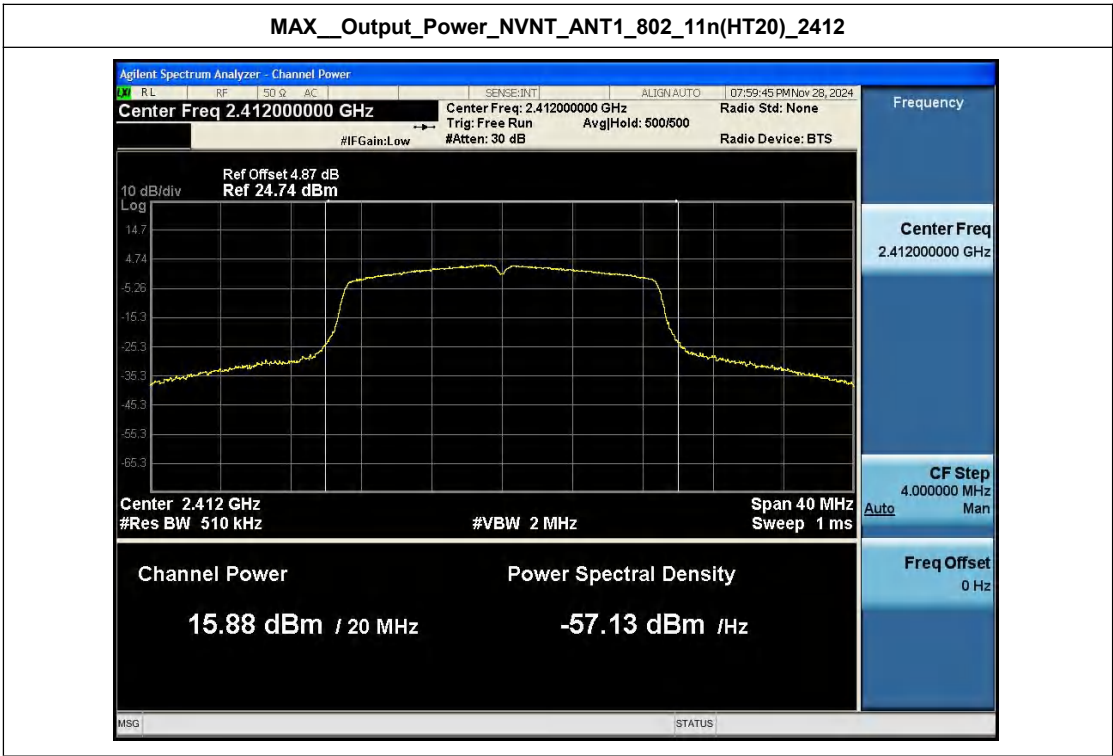
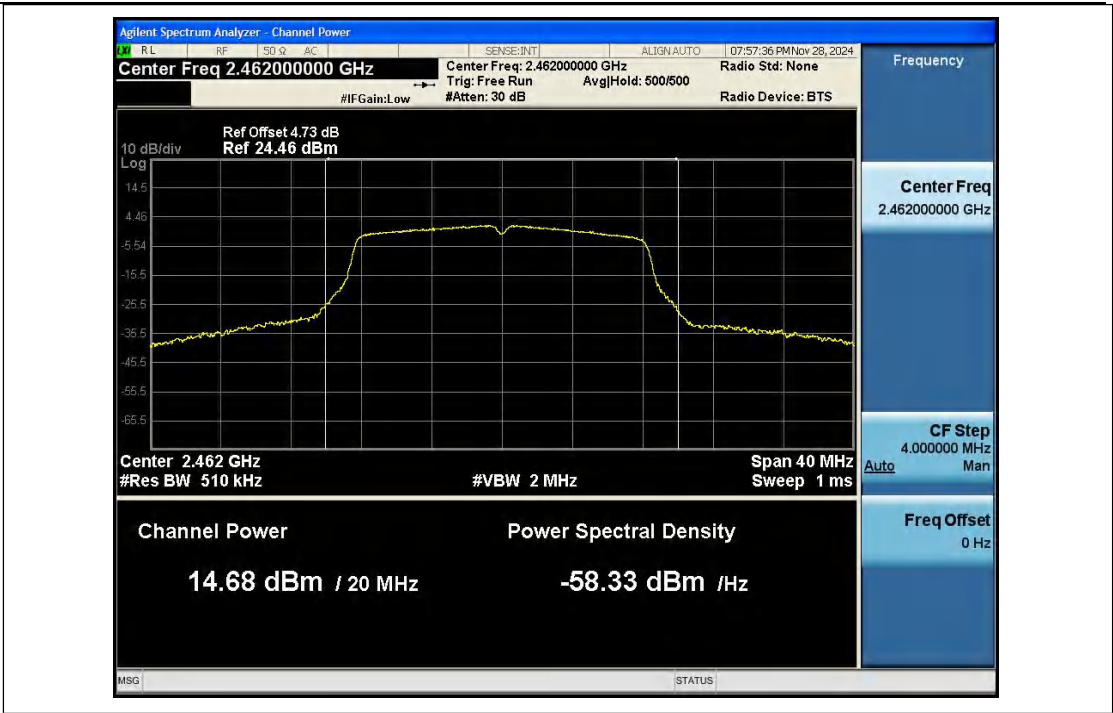


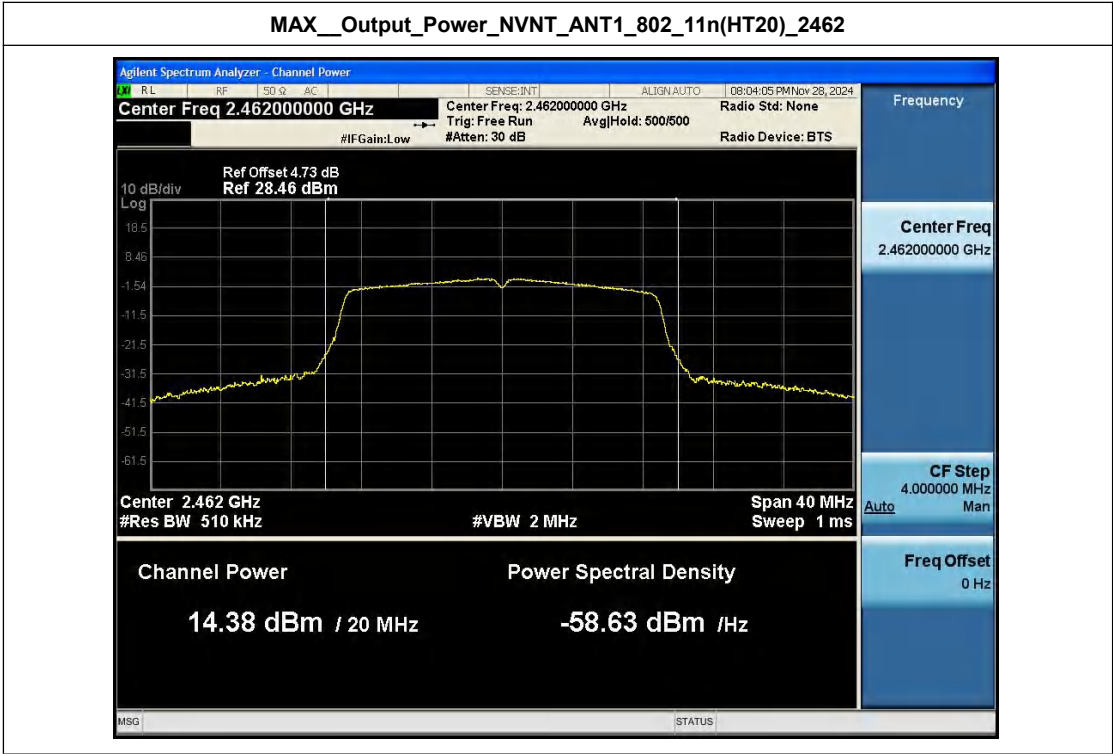
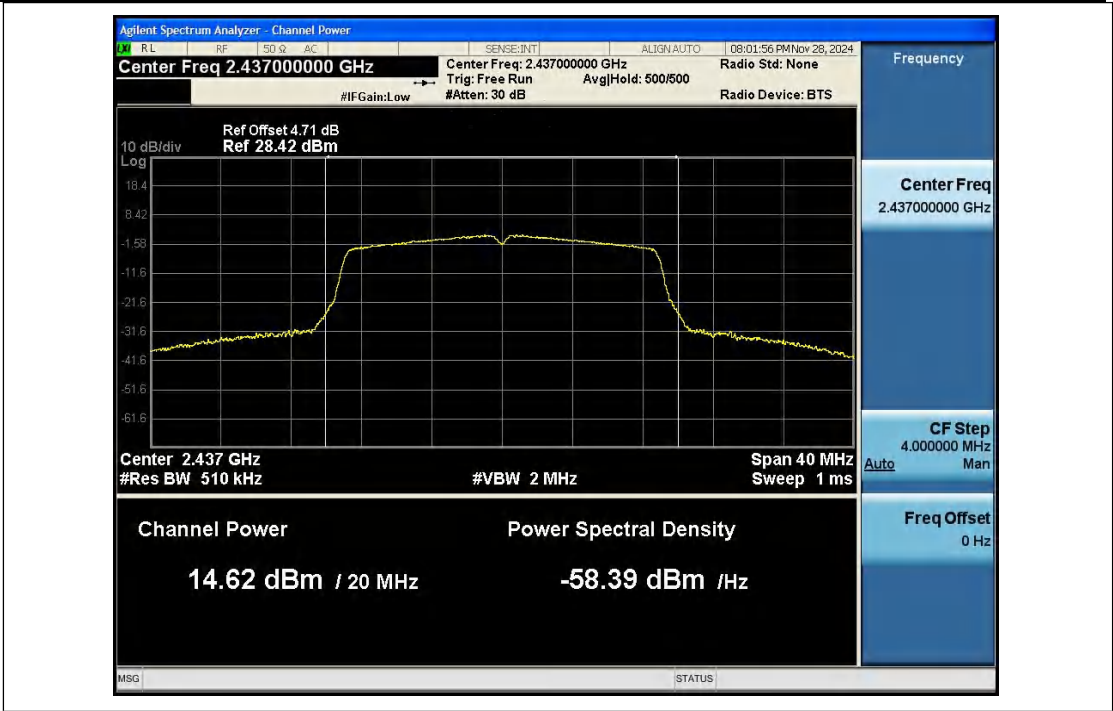
MAX_Output_Power_NVNT_ANT1_802_11g_2437



MAX_Output_Power_NVNT_ANT1_802_11g_2462

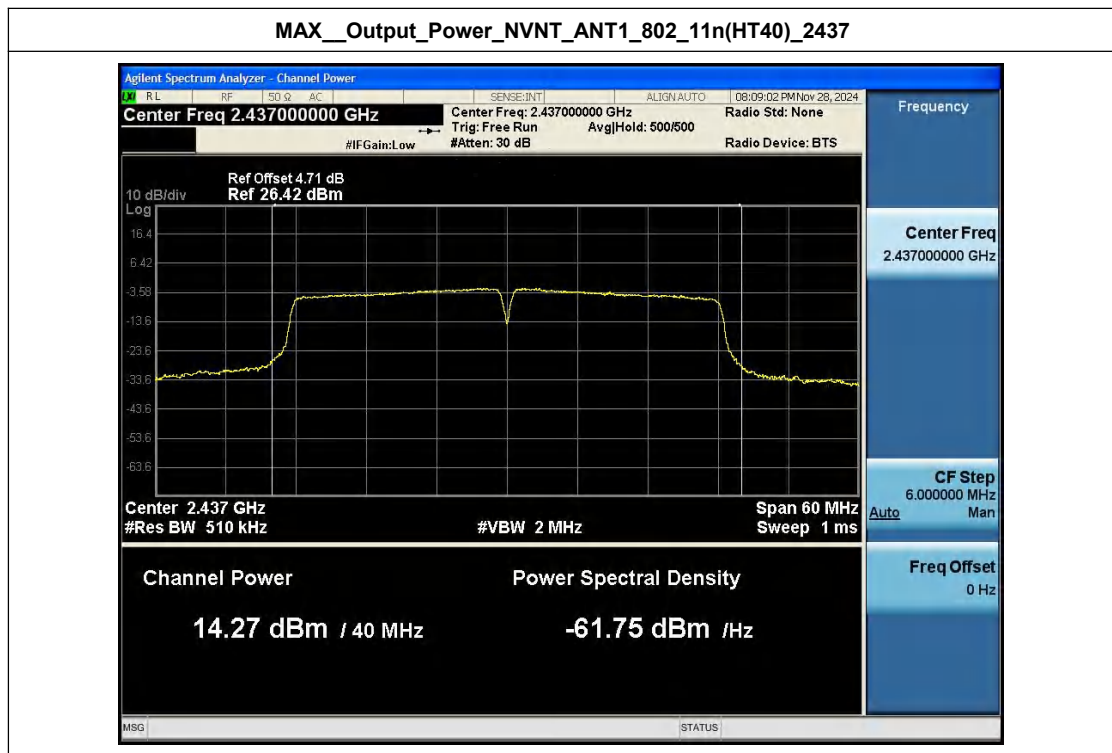
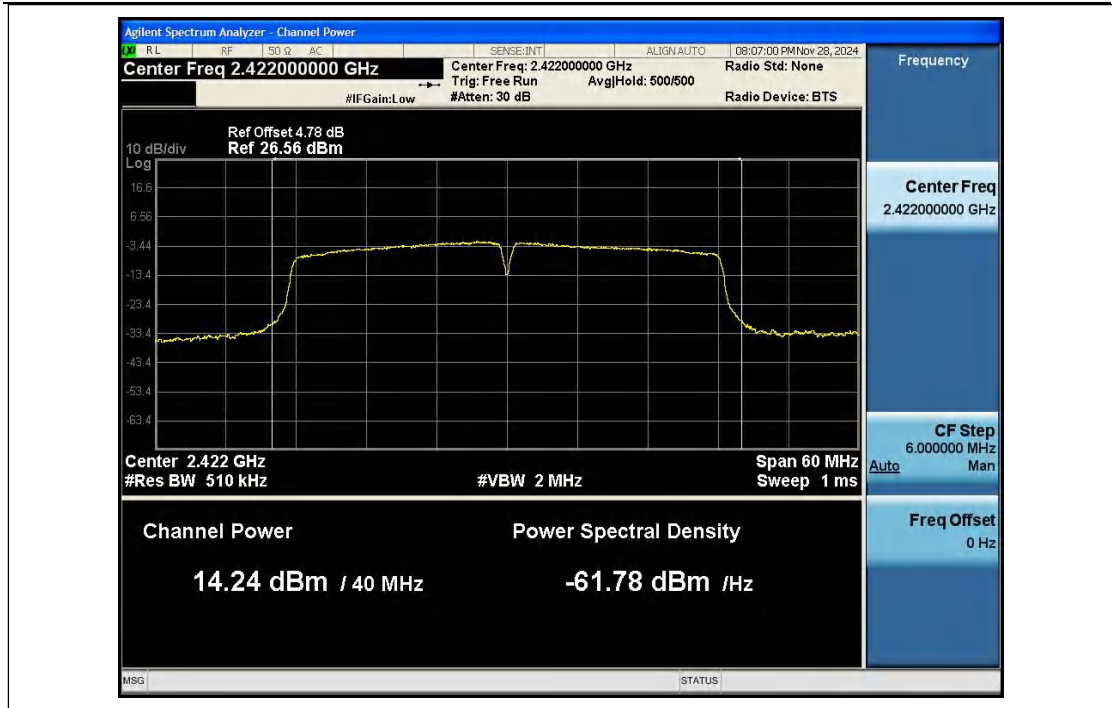






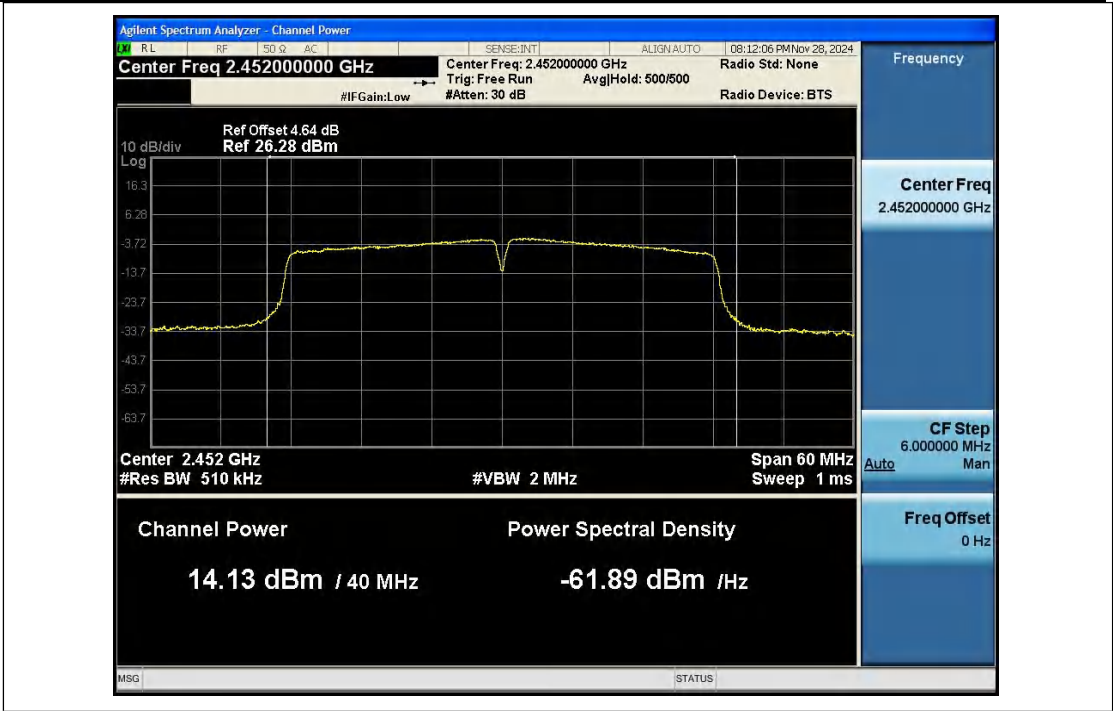
MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2422





MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2452





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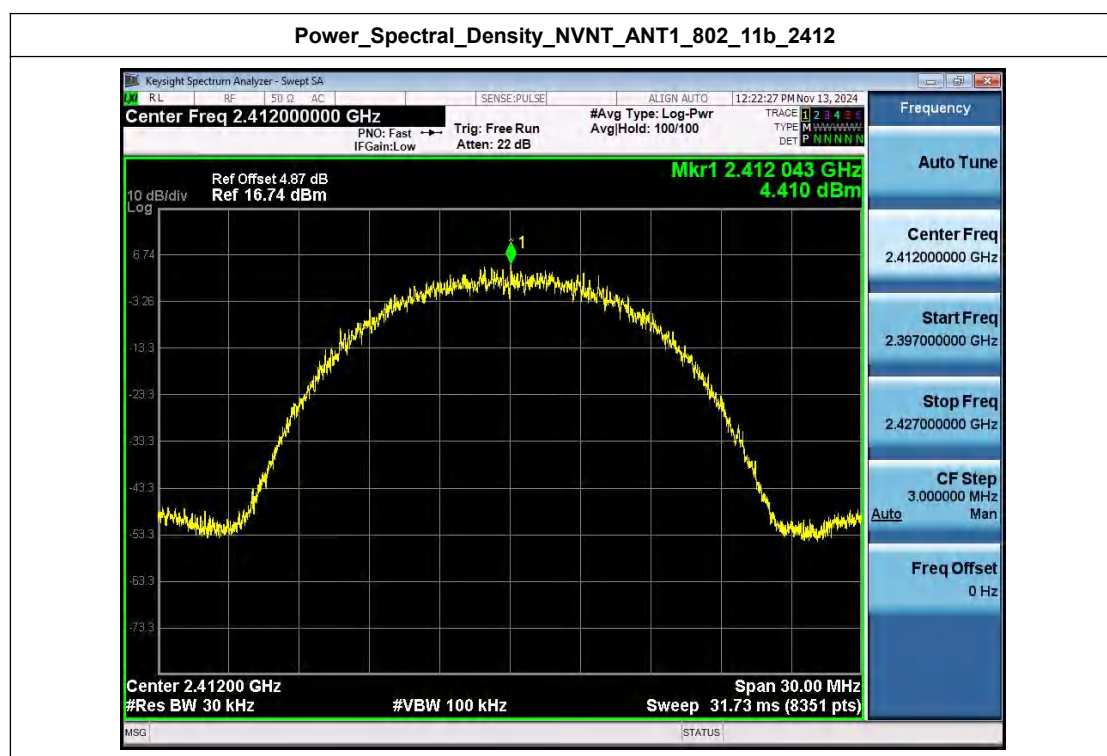
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Appendix E: Power Spectral Density

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	4.41	0.00	-10.00	-5.59	8	Pass
NVNT	ANT1	802.11b	2437.00	4.20	0.00	-10.00	-5.80	8	Pass
NVNT	ANT1	802.11b	2462.00	4.26	0.00	-10.00	-5.74	8	Pass
NVNT	ANT1	802.11g	2412.00	1.47	5.01	-10.00	-3.52	8	Pass
NVNT	ANT1	802.11g	2437.00	0.80	4.89	-10.00	-4.31	8	Pass
NVNT	ANT1	802.11g	2462.00	1.05	4.89	-10.00	-4.06	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	1.64	4.77	-10.00	-3.59	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	0.92	5.15	-10.00	-3.93	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	0.86	4.77	-10.00	-4.37	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-1.13	6.60	-10.00	-4.53	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-1.84	6.60	-10.00	-5.24	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-1.49	7.13	-10.00	-4.36	8	Pass

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

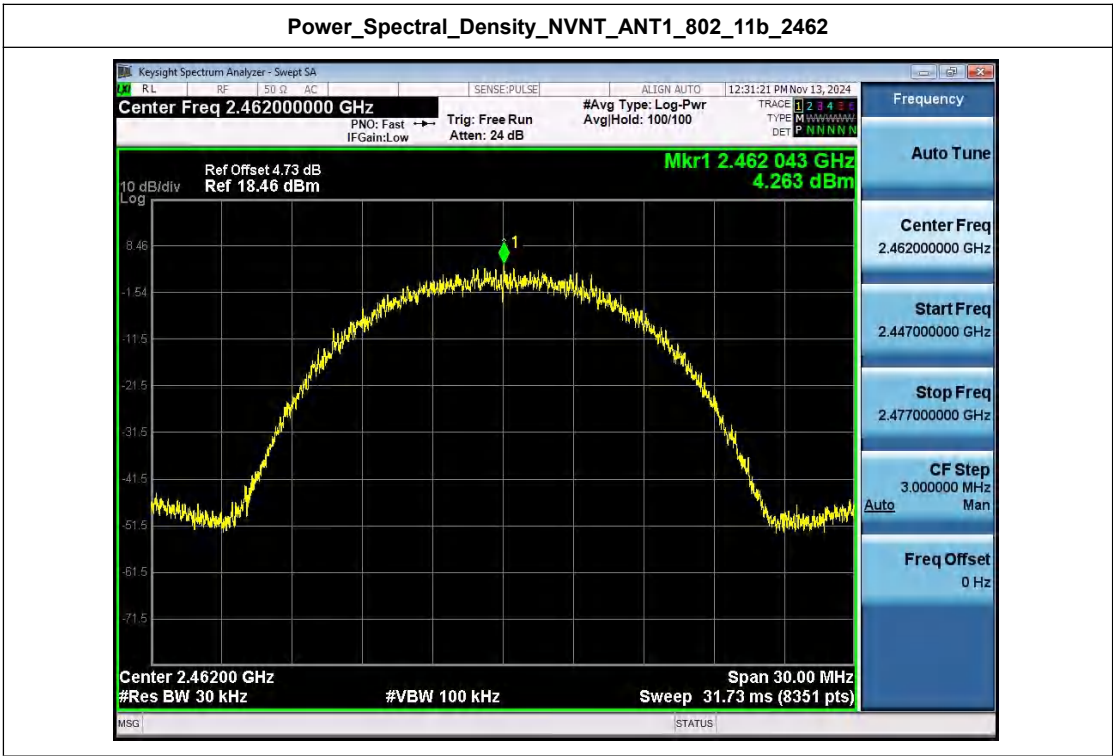


Power_Spectral_Density_NVNT_ANT1_802_11b_2437



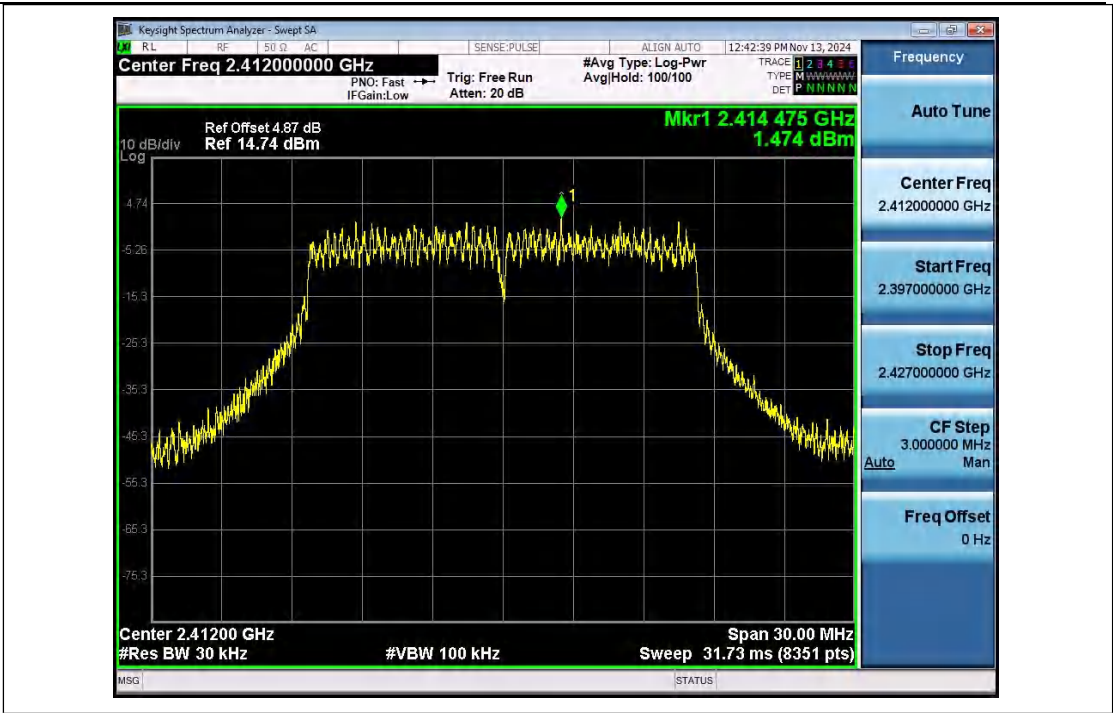


Power_Spectral_Density_NVNT_ANT1_802_11b_2462

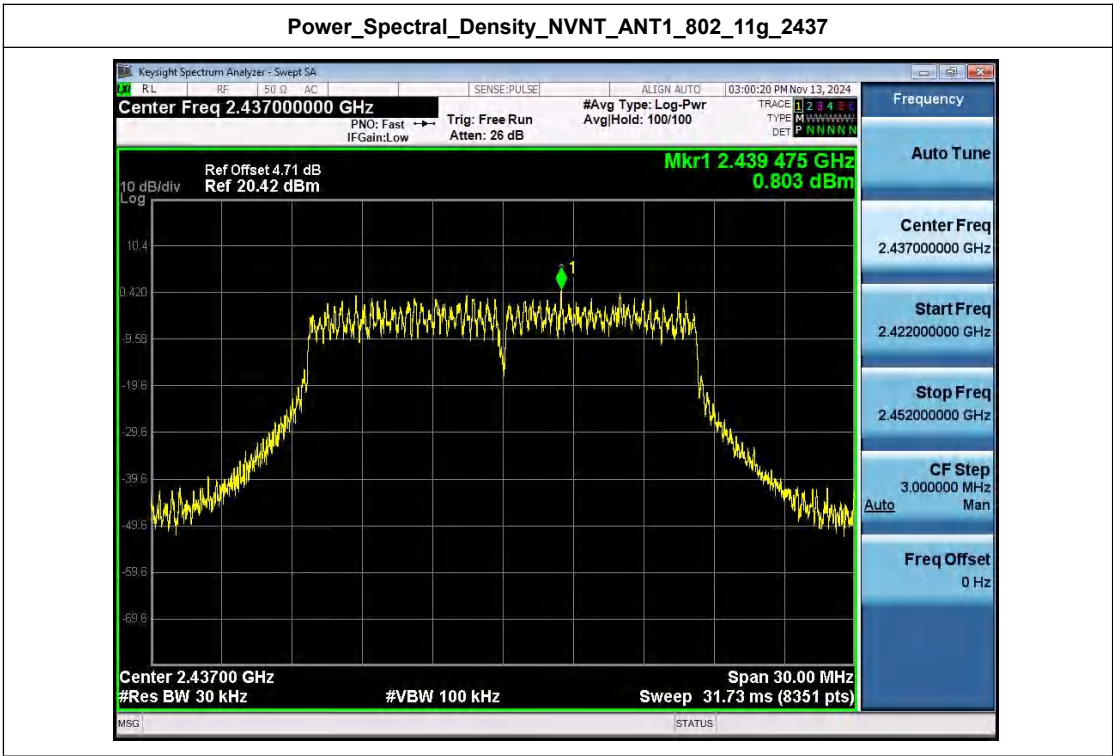


Power_Spectral_Density_NVNT_ANT1_802_11g_2412



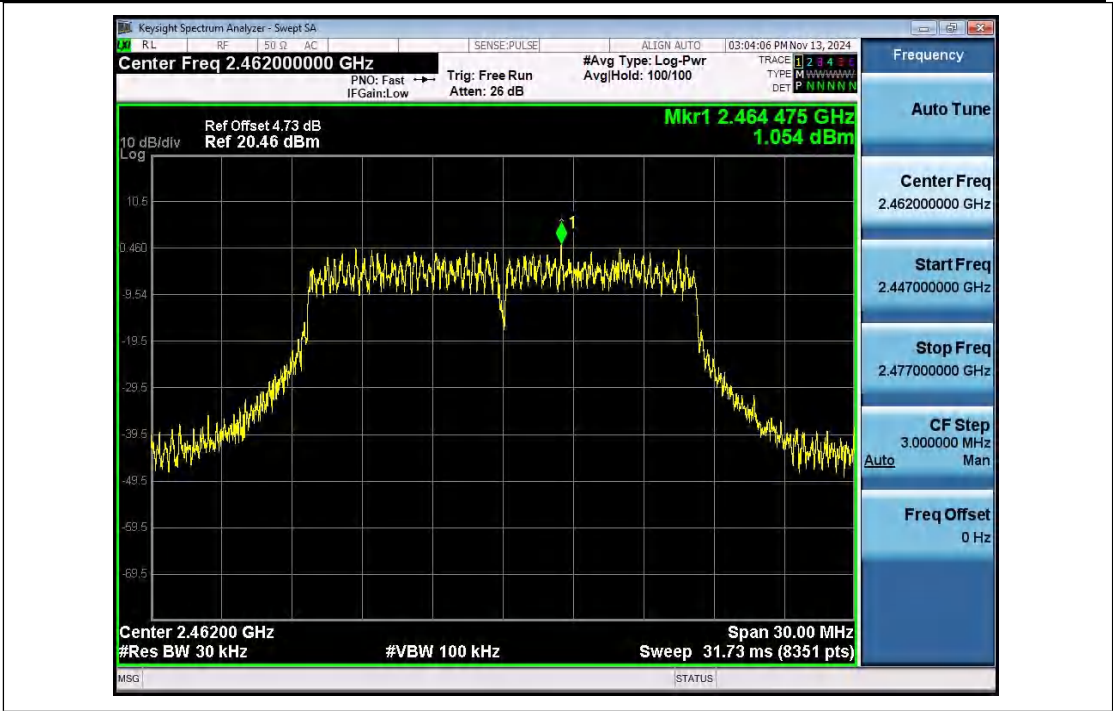


Power_Spectral_Density_NVNT_ANT1_802_11g_2437

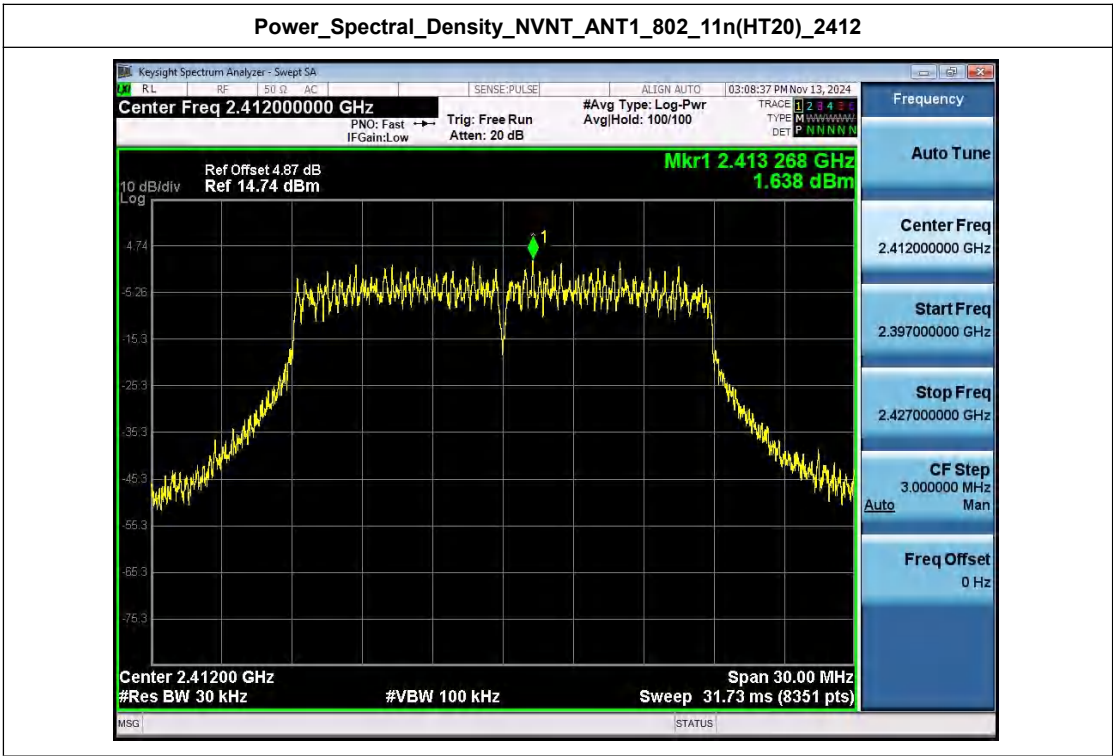


Power_Spectral_Density_NVNT_ANT1_802_11g_2462





Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412

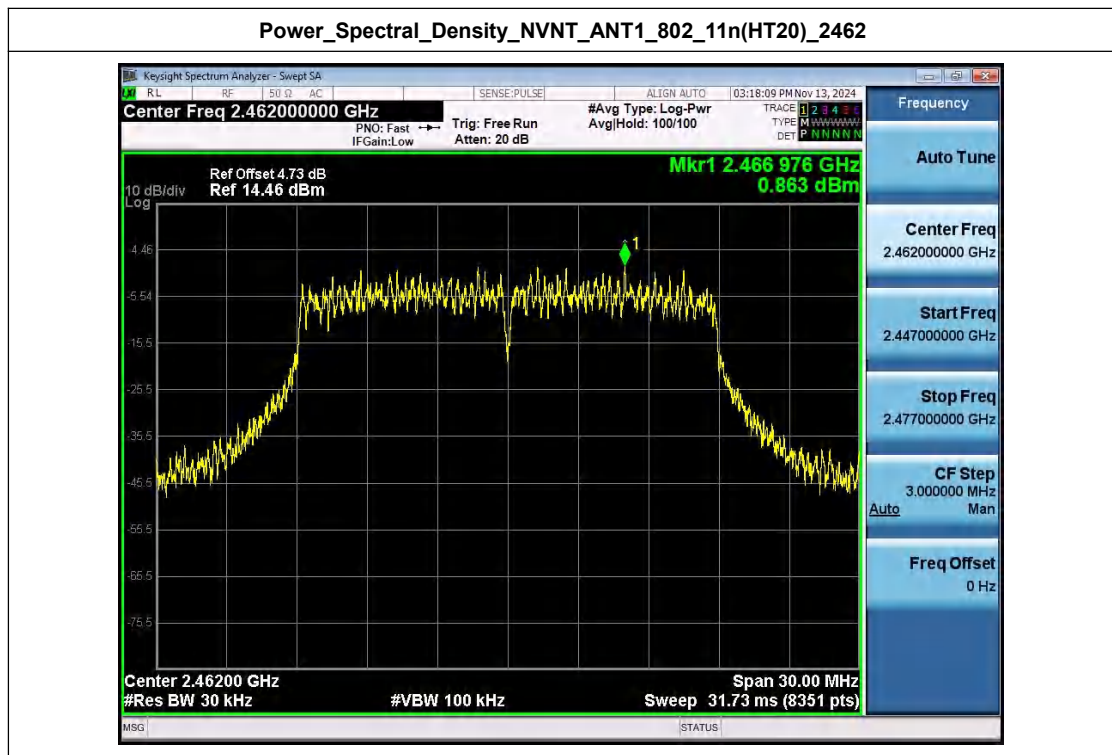


Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437





Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2462

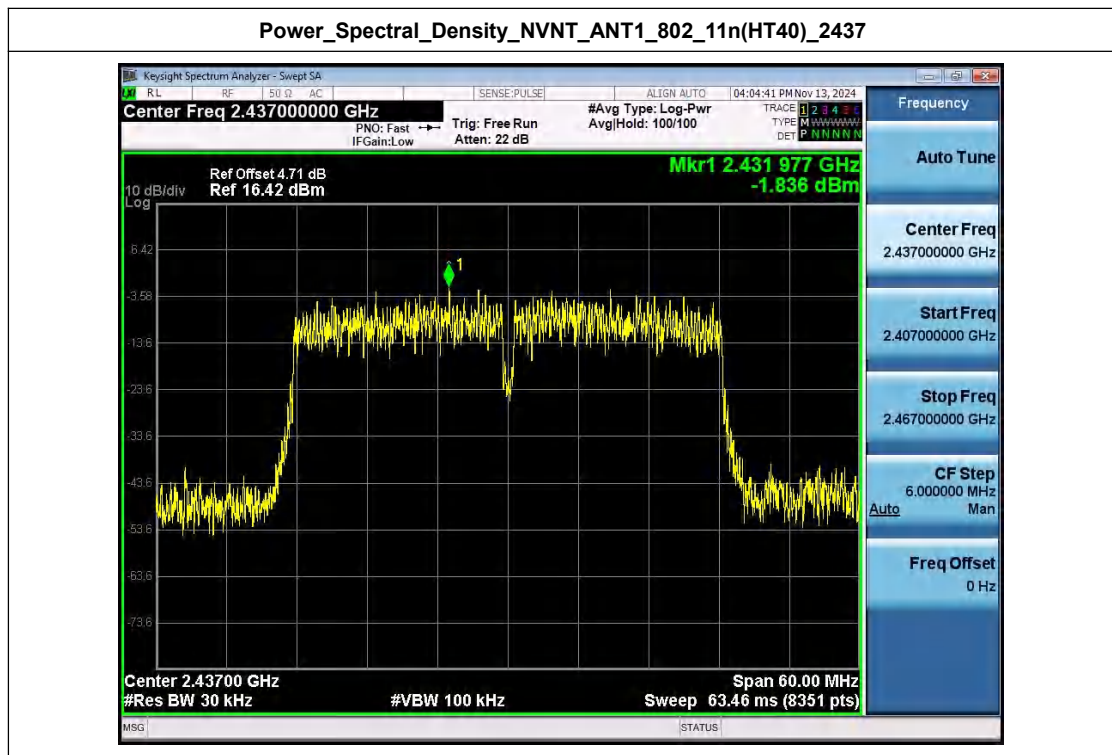


Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2422



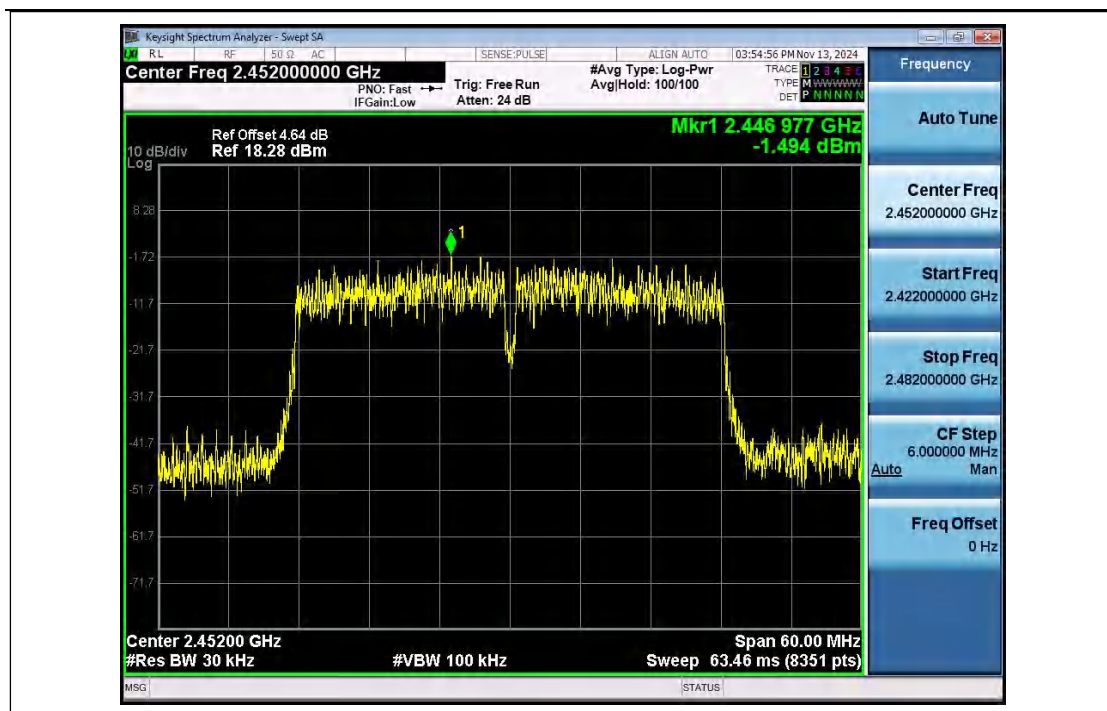


Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2437



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2452





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Appendix F: Bandedge

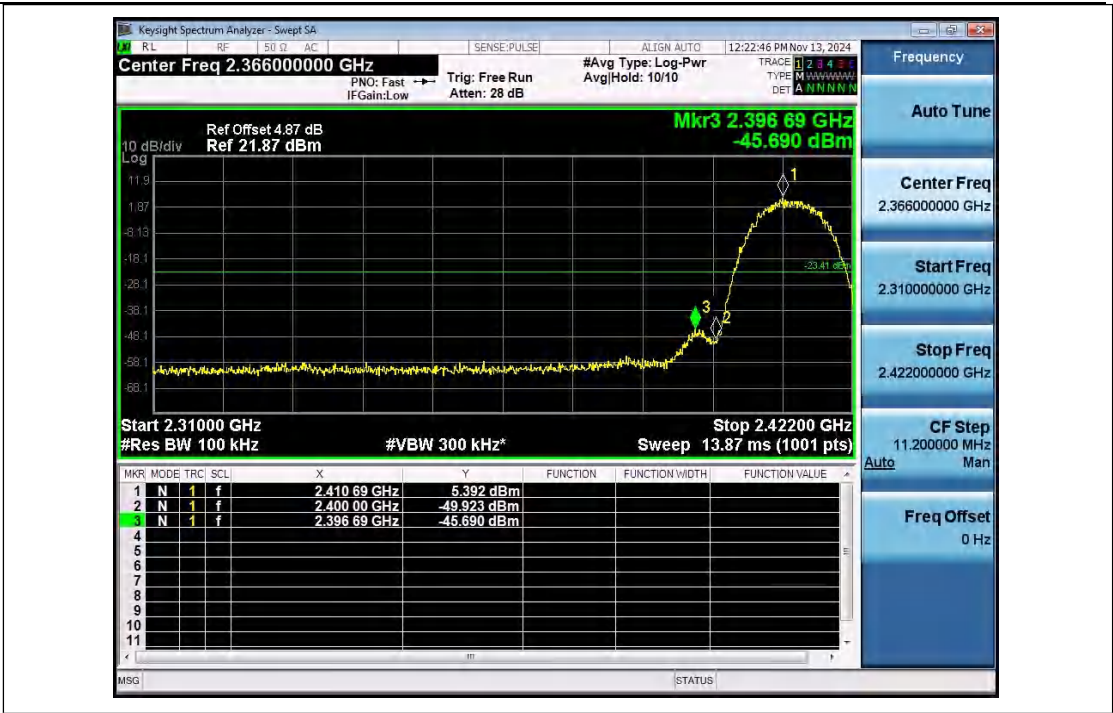
Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_ frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2396.688	-45.690	-23.405	Pass
NVNT	ANT1	802.11b	2462.00	2487.520	-53.354	-23.081	Pass
NVNT	ANT1	802.11g	2412.00	2399.712	-39.522	-26.488	Pass
NVNT	ANT1	802.11g	2462.00	2485.408	-44.468	-26.847	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.712	-37.145	-26.007	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2484.832	-41.666	-26.771	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2384.448	-41.560	-30.430	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.428	-36.223	-31.001	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412

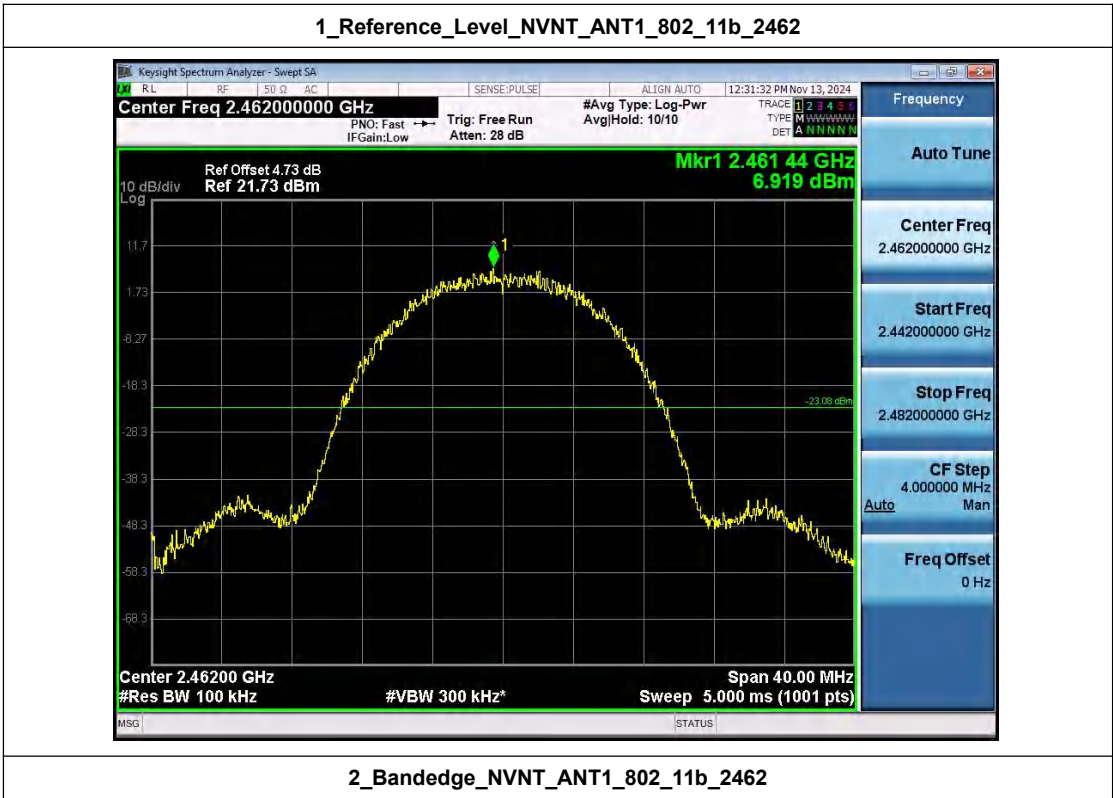


2_Bandedge_NVNT_ANT1_802_11b_2412





1_Reference_Level_NVNT_ANT1_802_11b_2462

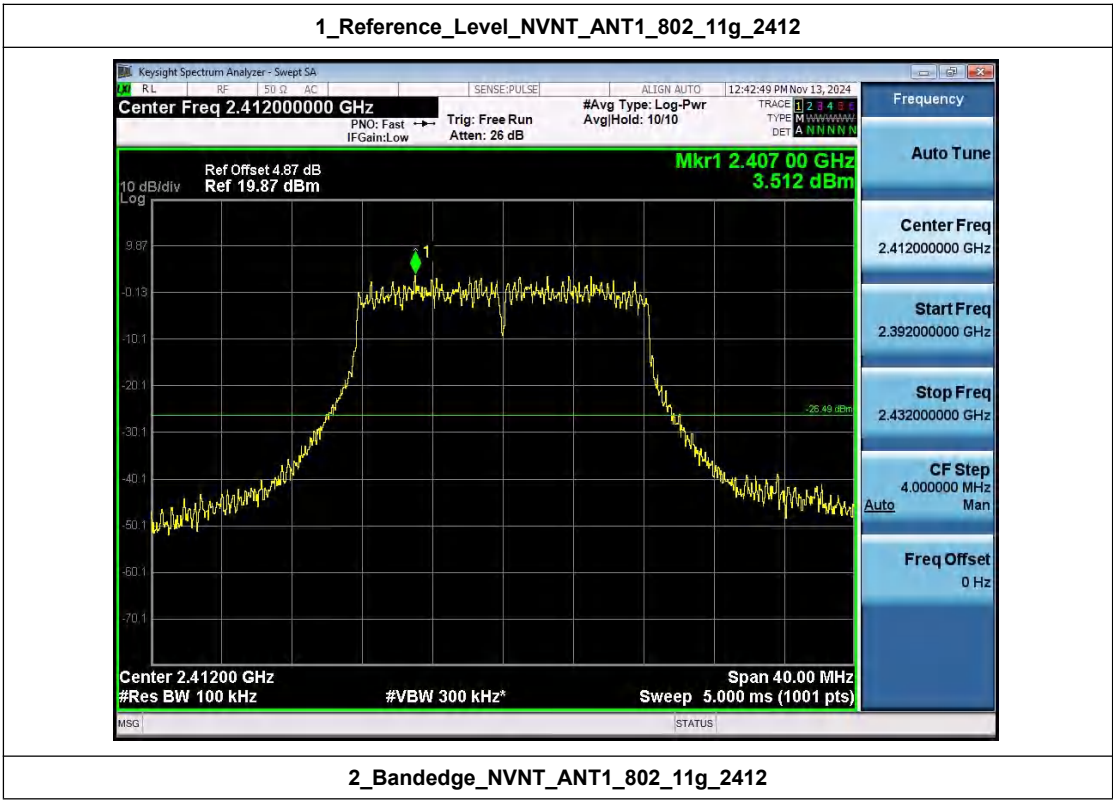


2_Bandedge_NVNT_ANT1_802_11b_2462



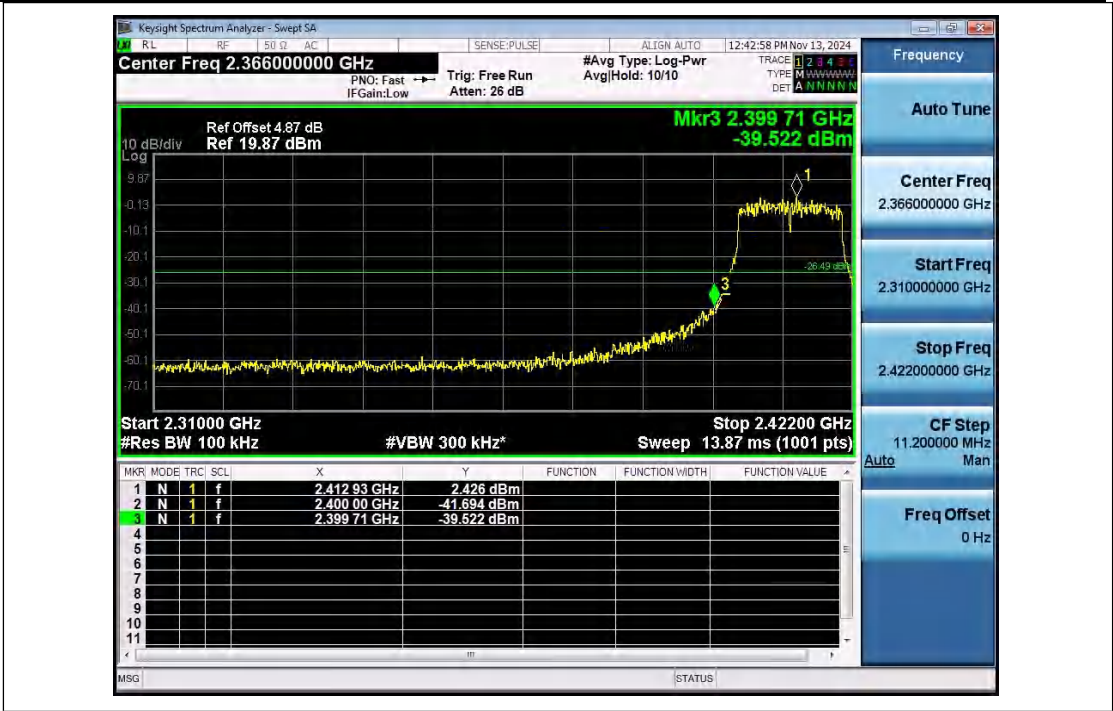


1_Reference_Level_NVNT_ANT1_802_11g_2412

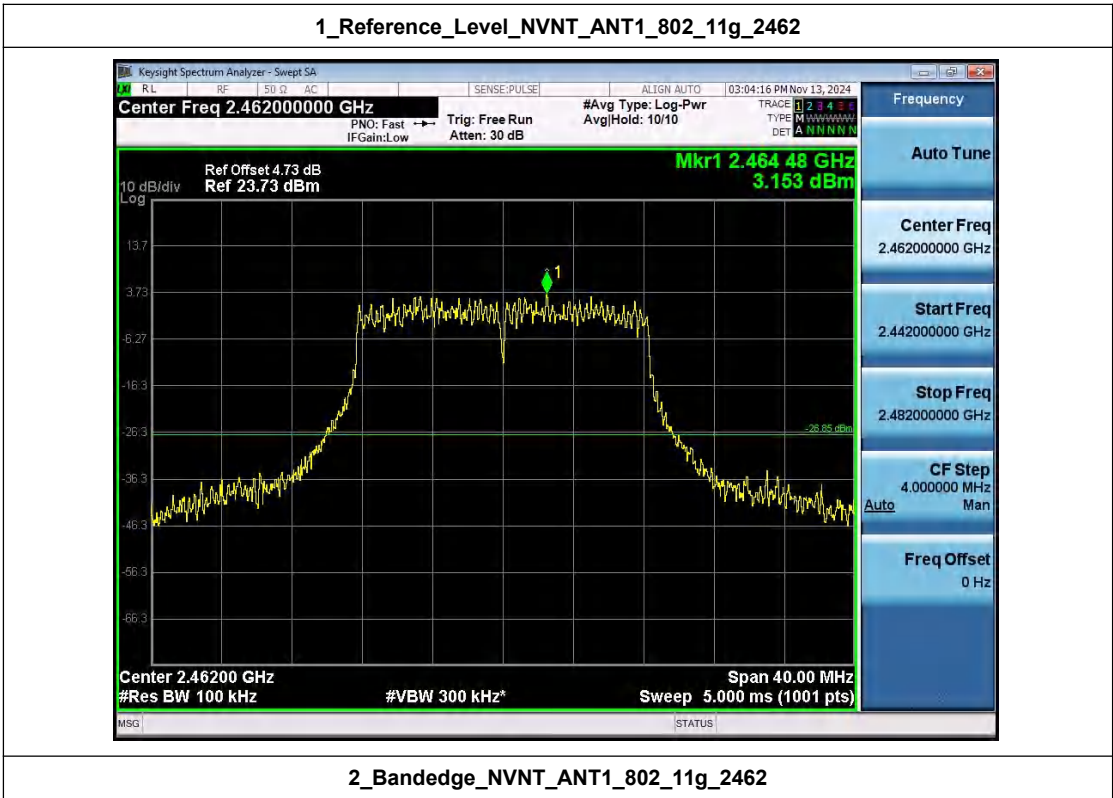


2_Bandedge_NVNT_ANT1_802_11g_2412





1_Reference_Level_NVNT_ANT1_802_11g_2462

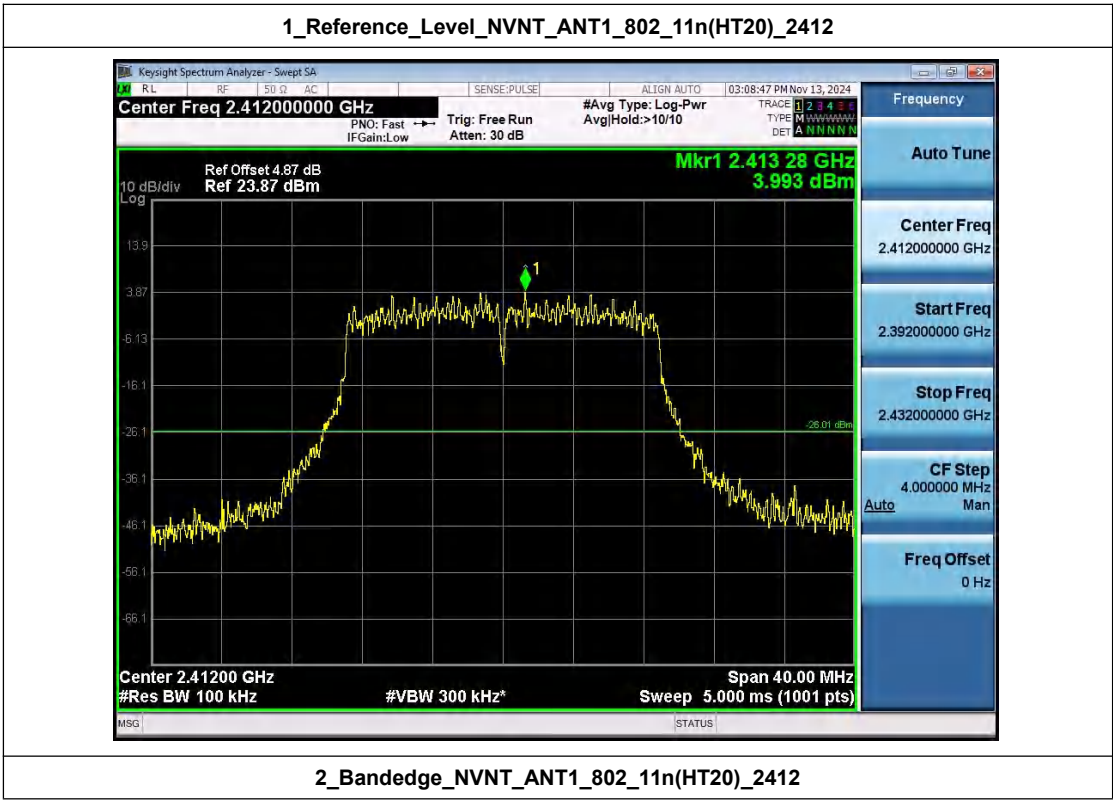


2_Bandedge_NVNT_ANT1_802_11g_2462



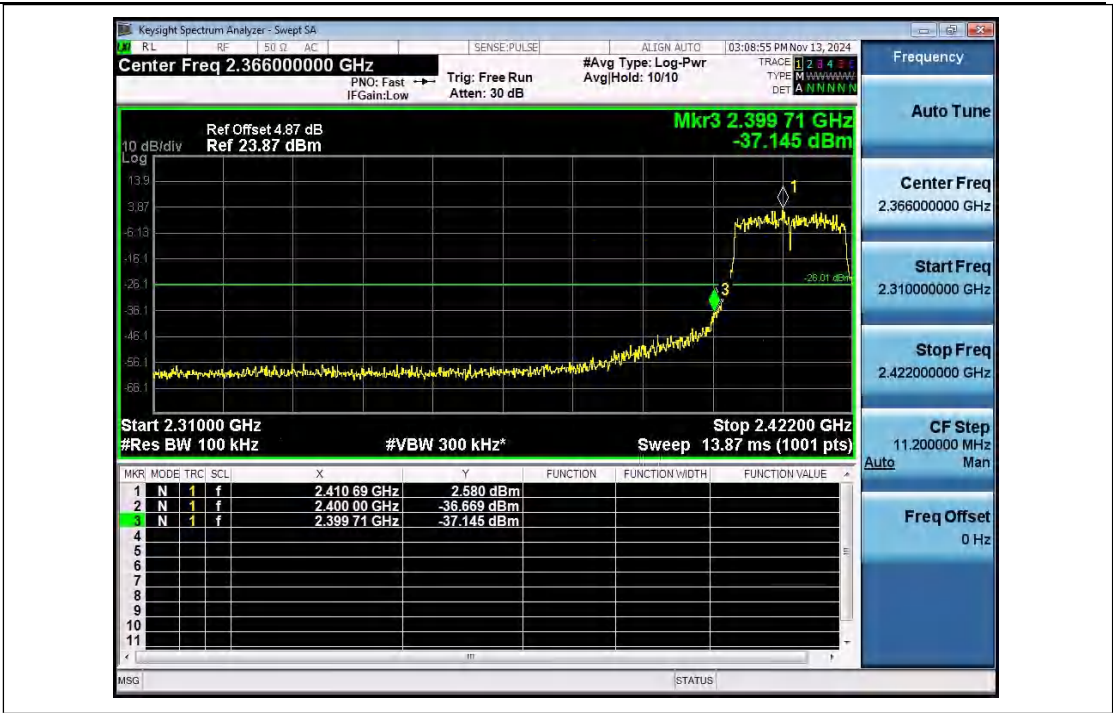


1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412

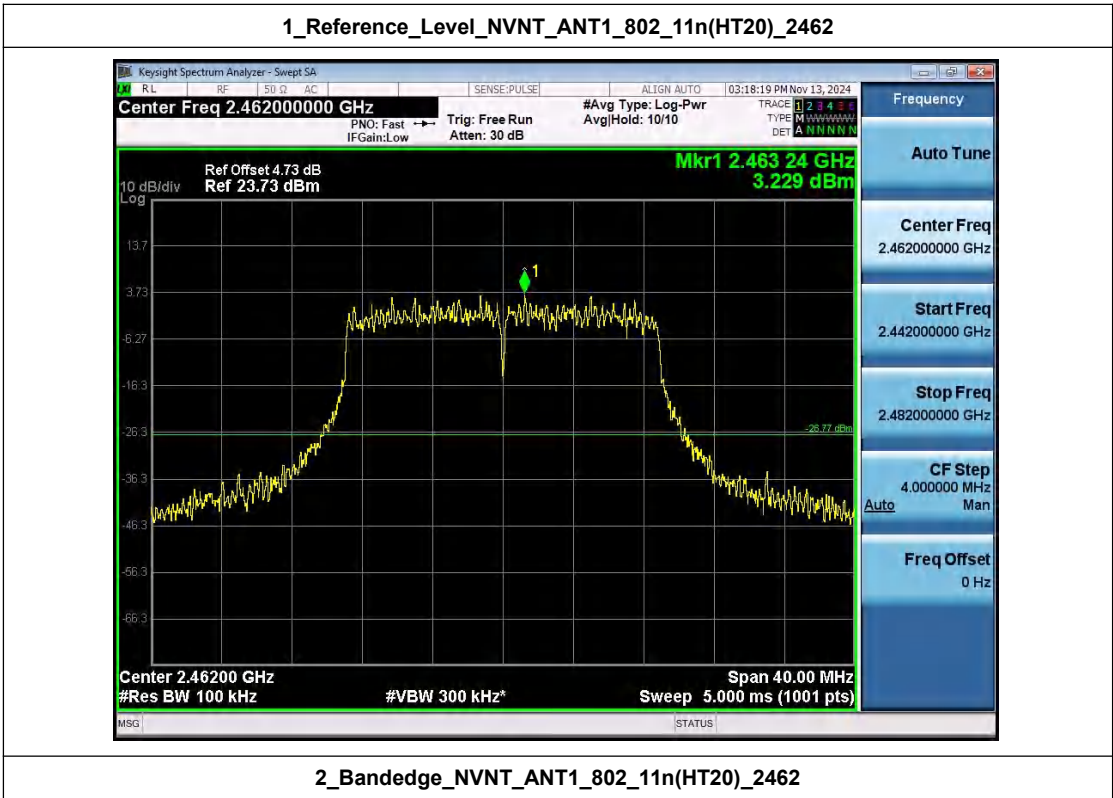


2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412





1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462

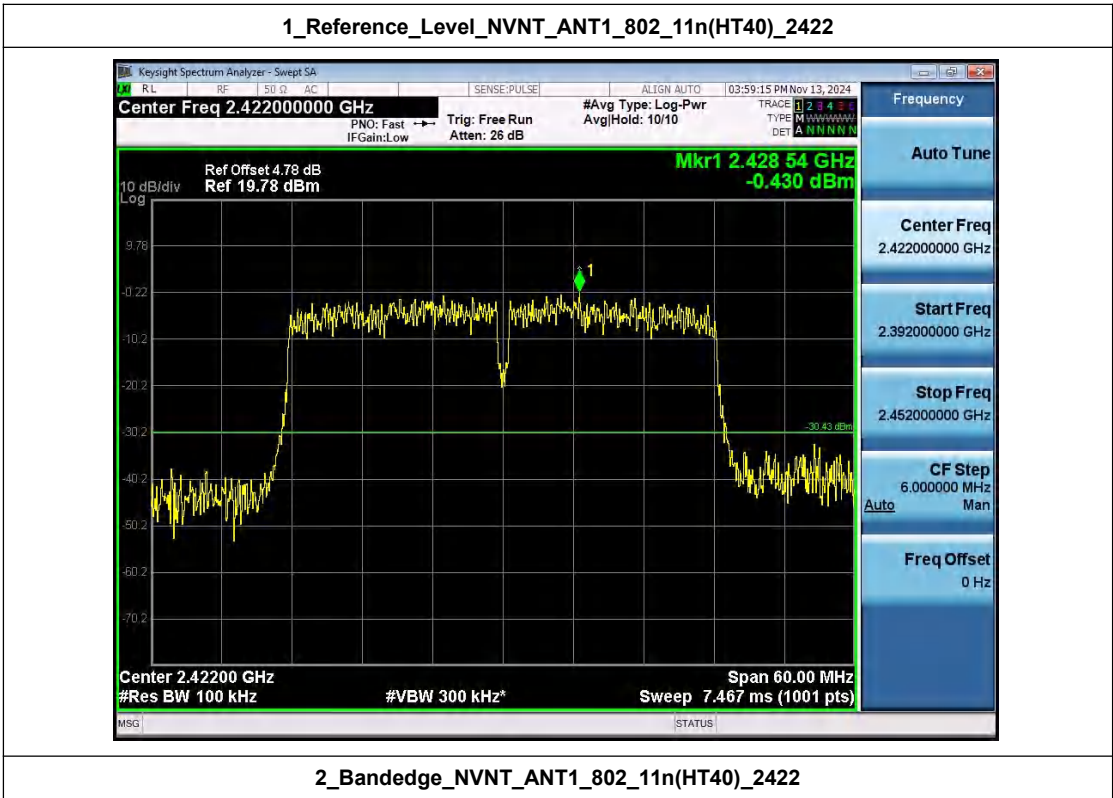


2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462



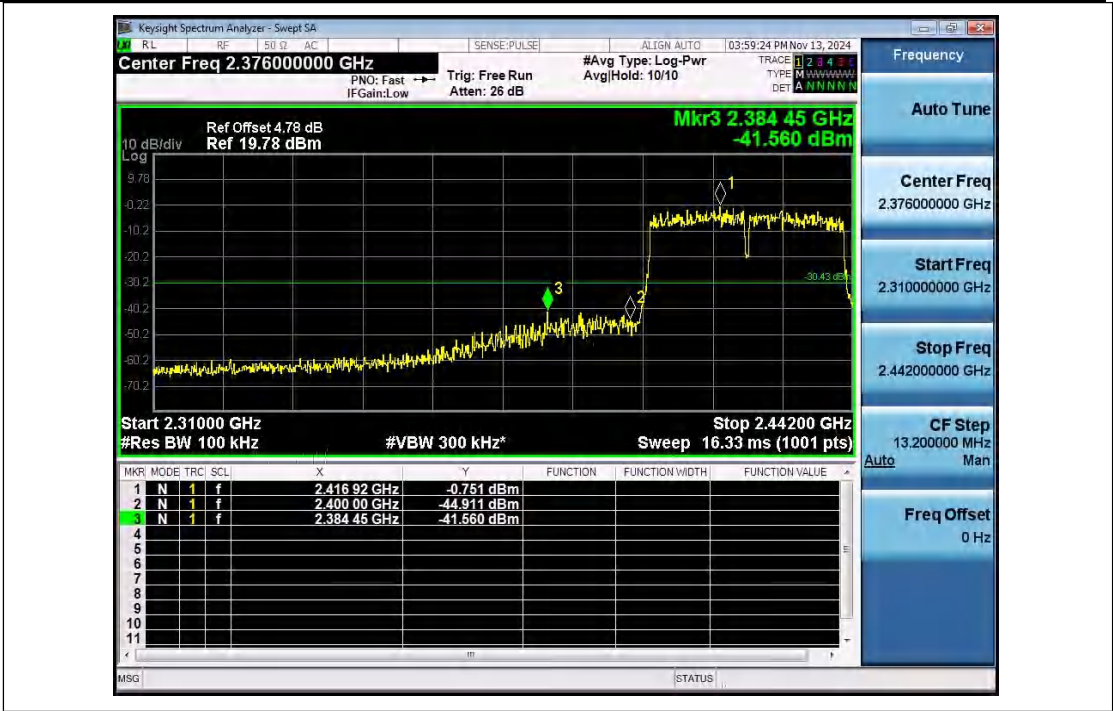


1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422

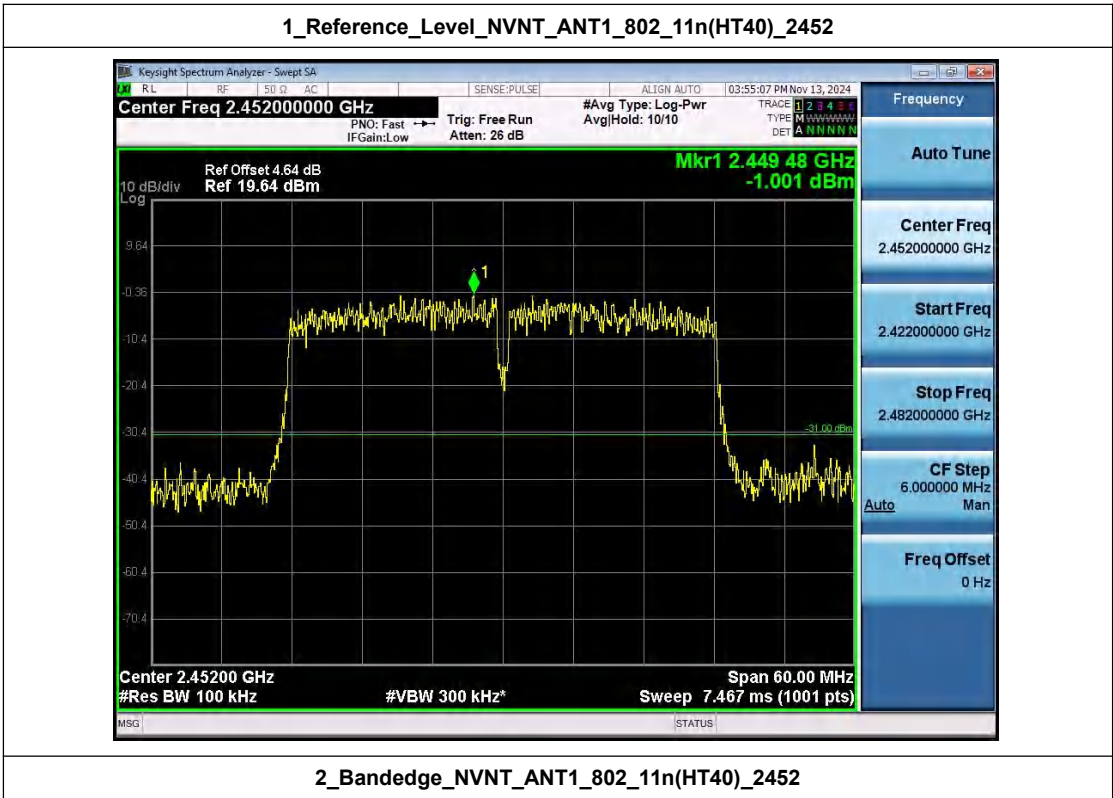


2_Bandedge_NVNT_ANT1_802_11n(HT40)_2422



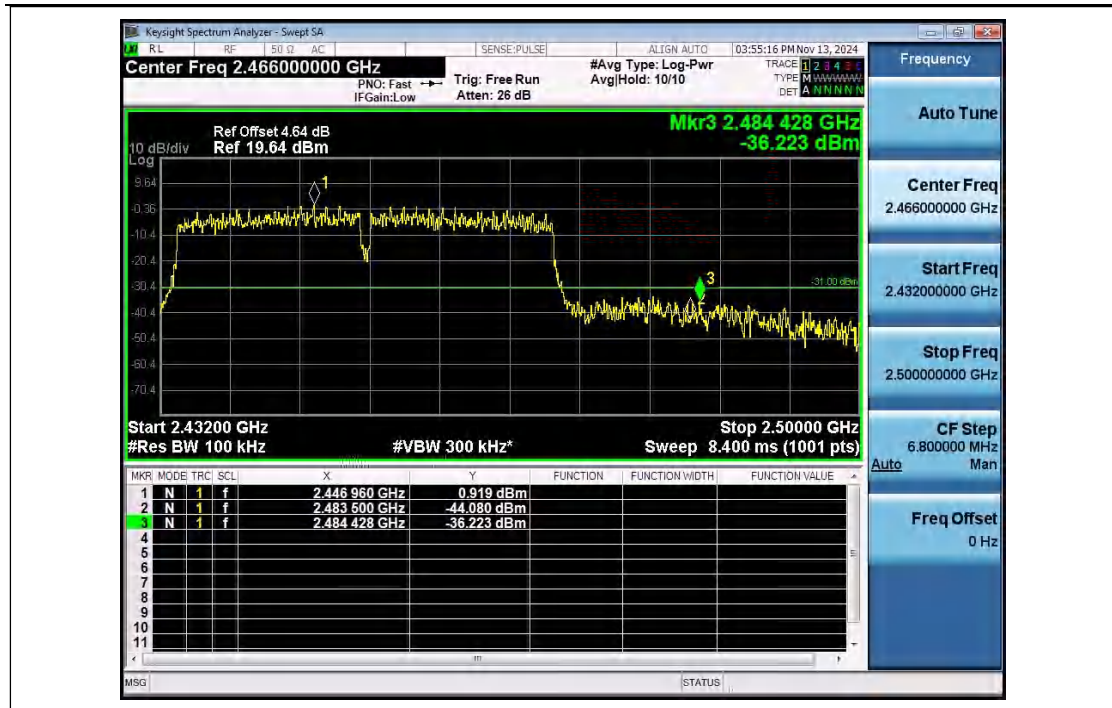


1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452



2_Bandedge_NVNT_ANT1_802_11n(HT40)_2452





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Appendix G: Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24308.331	-55.854	-20.592	Pass
NVNT	ANT1	802.11b	2437.00	24805.234	-51.157	-22.289	Pass
NVNT	ANT1	802.11b	2462.00	5226.257	-59.843	-22.760	Pass
NVNT	ANT1	802.11g	2412.00	24880.144	-59.333	-22.571	Pass
NVNT	ANT1	802.11g	2437.00	24890.132	-62.275	-24.156	Pass
NVNT	ANT1	802.11g	2462.00	24847.683	-62.218	-25.203	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24840.192	-55.477	-22.892	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24872.653	-58.131	-24.624	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24800.240	-58.764	-24.661	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24870.156	-58.323	-26.576	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24862.665	-64.915	-27.436	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	24805.234	-64.924	-27.290	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412

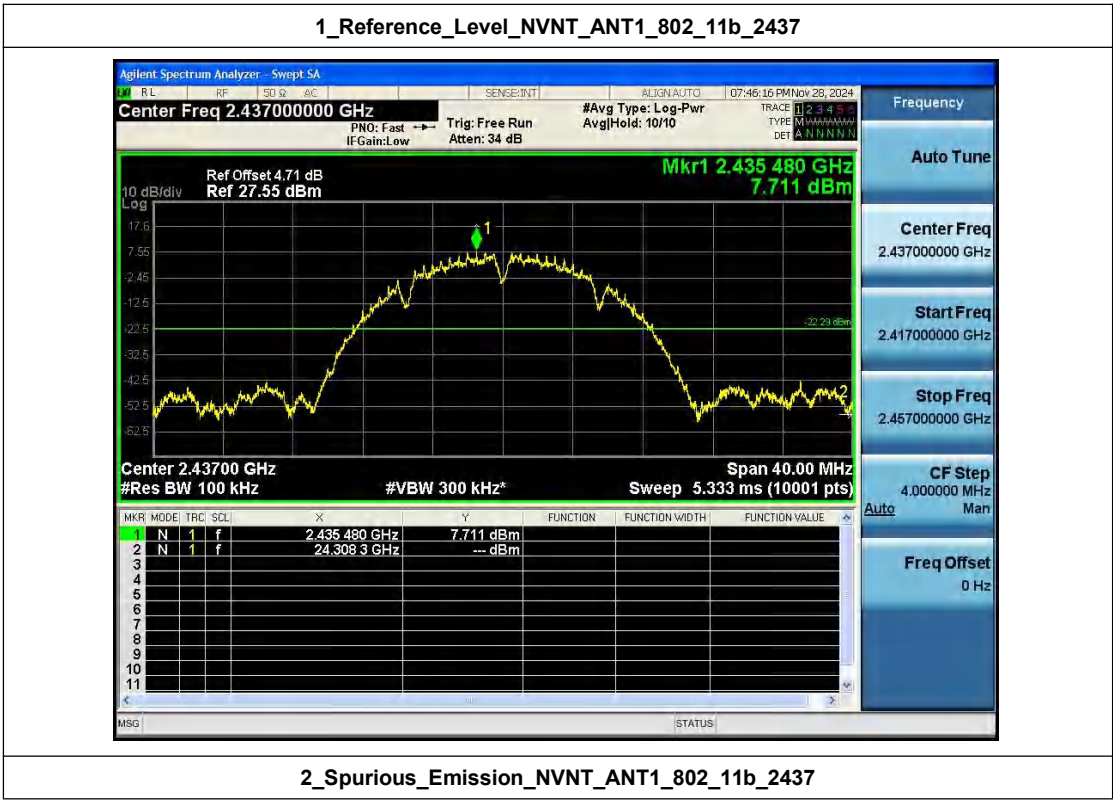


2_Spurious_Emission_NVNT_ANT1_802_11b_2412





1_Reference_Level_NVNT_ANT1_802_11b_2437

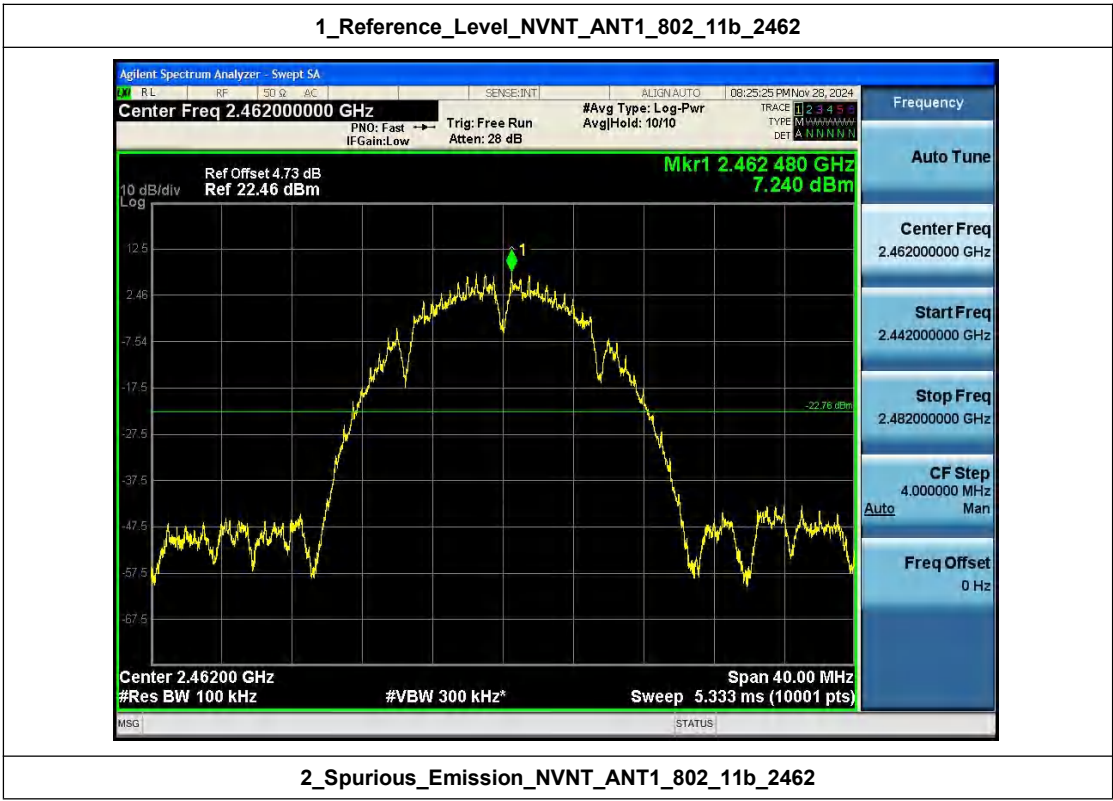


2_Spurious_Emission_NVNT_ANT1_802_11b_2437





1_Reference_Level_NVNT_ANT1_802_11b_2462

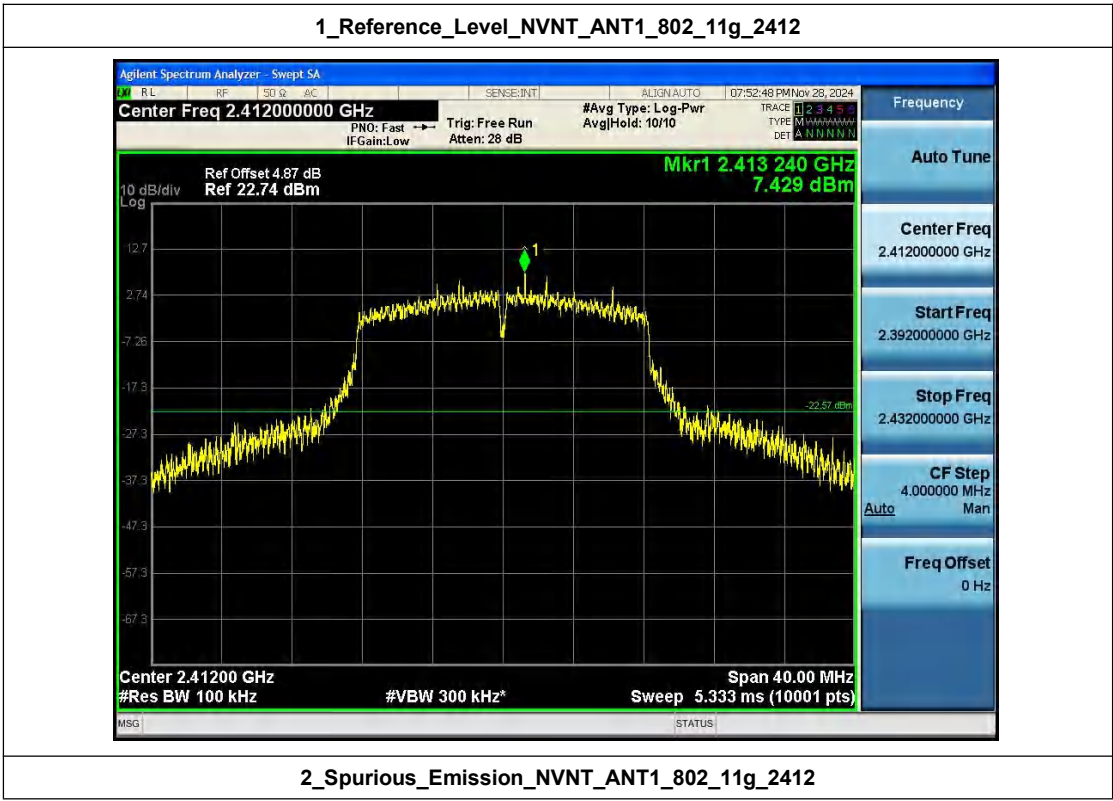


2_Spurious_Emission_NVNT_ANT1_802_11b_2462





1_Reference_Level_NVNT_ANT1_802_11g_2412

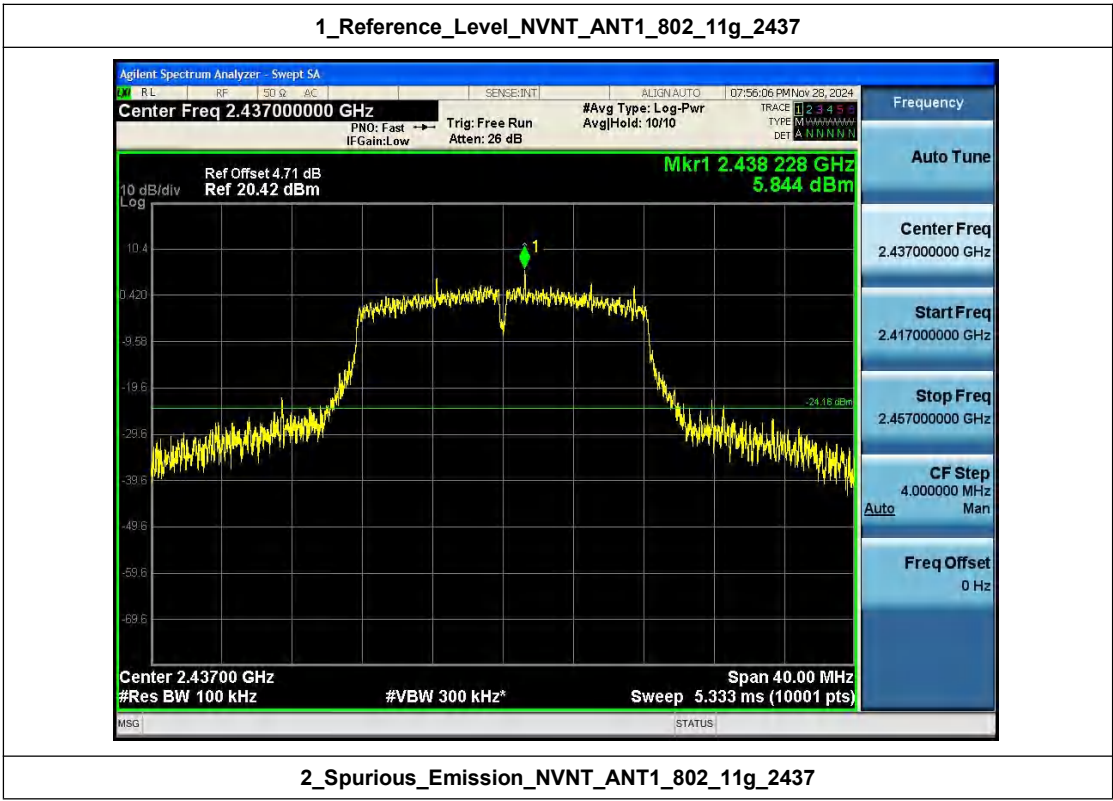


2_Spurious_Emission_NVNT_ANT1_802_11g_2412





1_Reference_Level_NVNT_ANT1_802_11g_2437

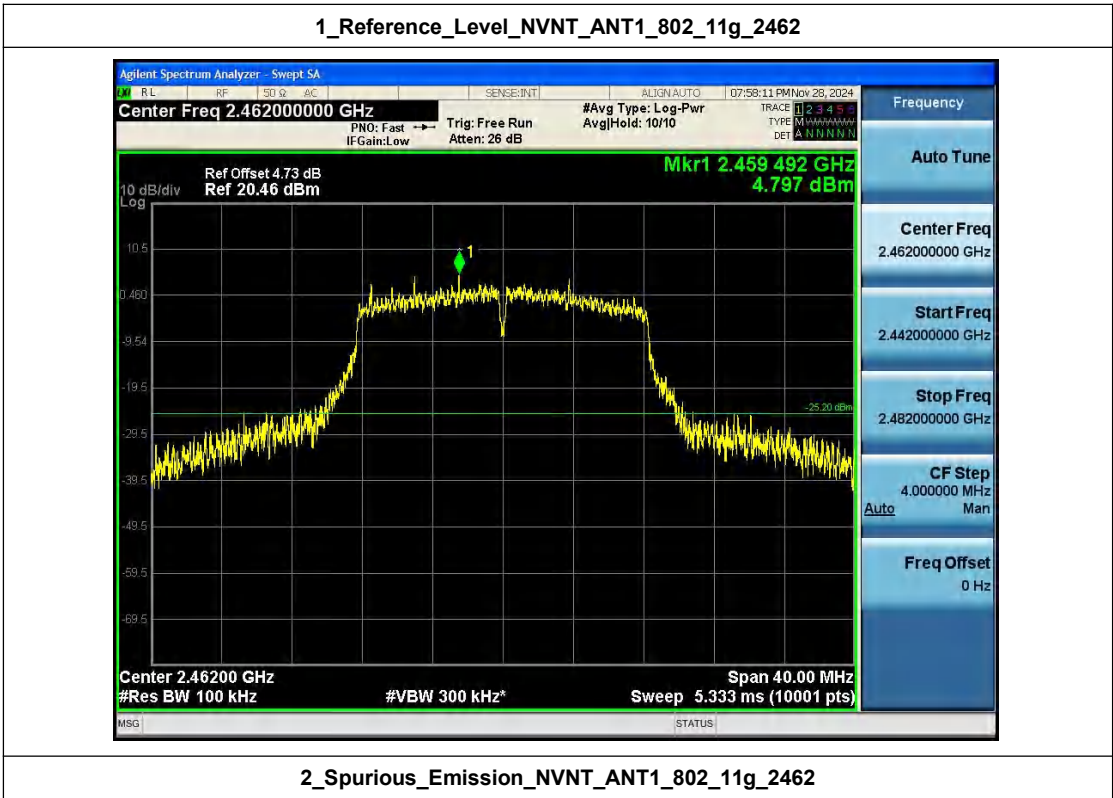


2_Spurious_Emission_NVNT_ANT1_802_11g_2437





1_Reference_Level_NVNT_ANT1_802_11g_2462

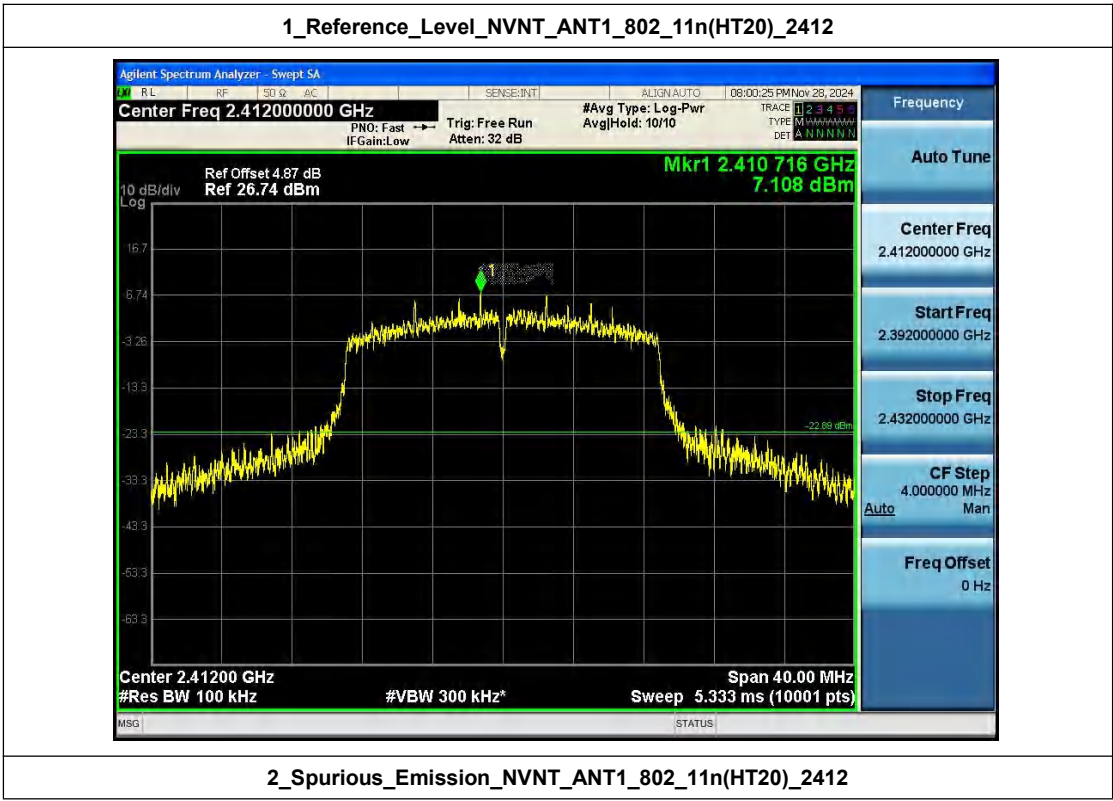


2_Spurious_Emission_NVNT_ANT1_802_11g_2462





1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412

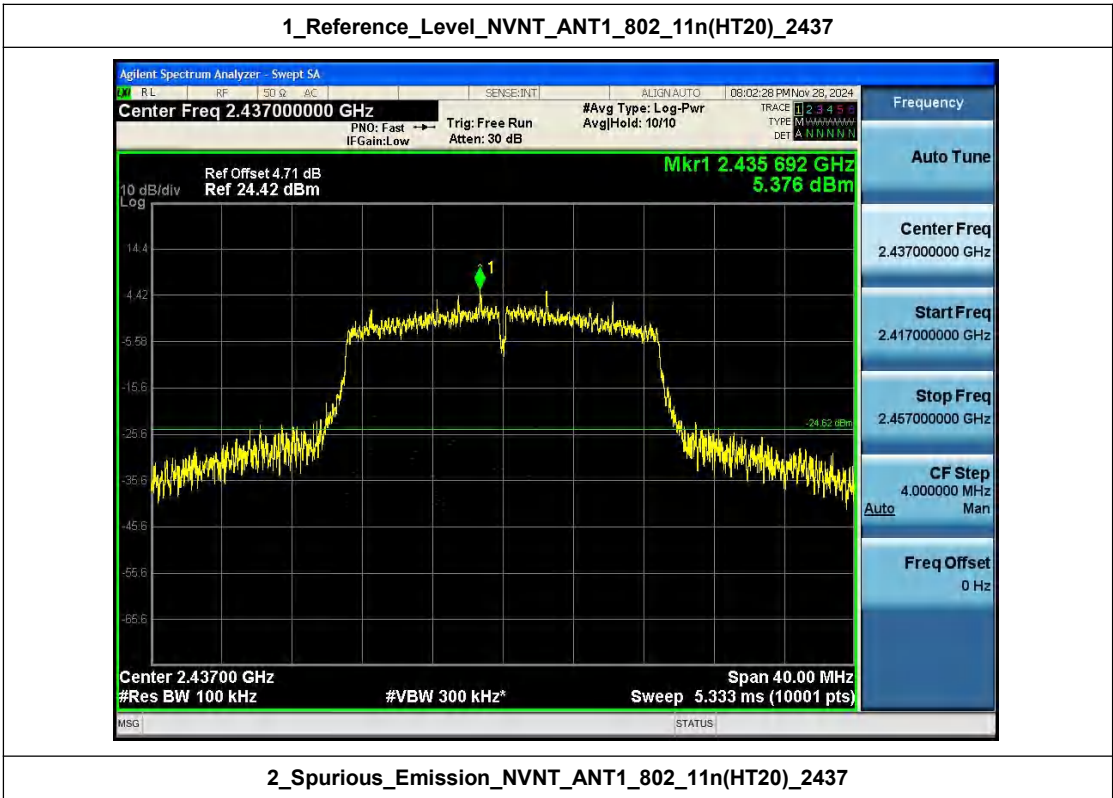


2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2412





1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2437

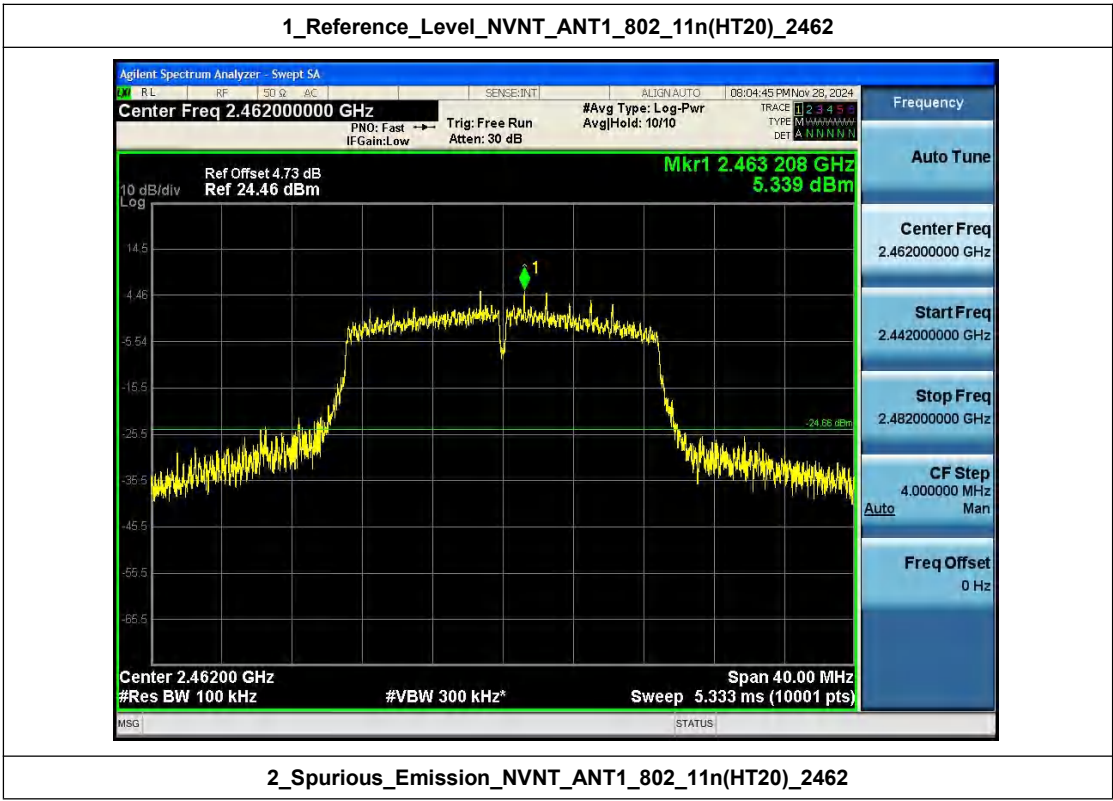


2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2437





1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462

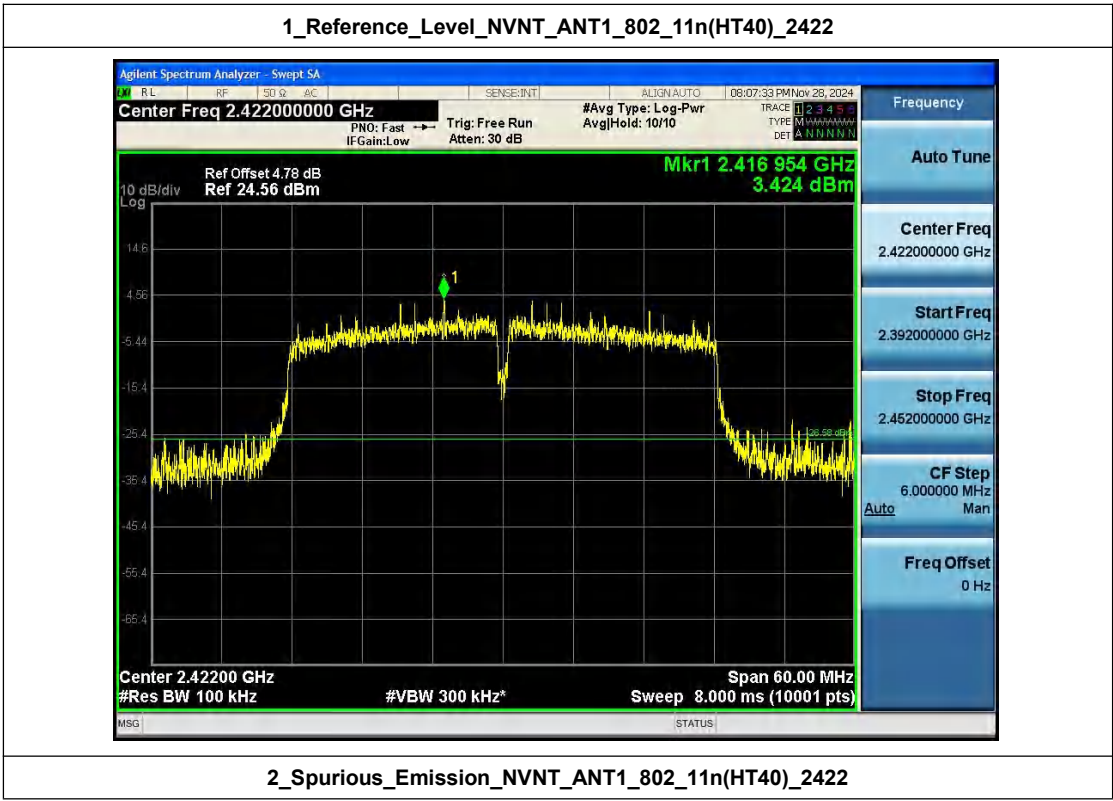


2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2462





1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422

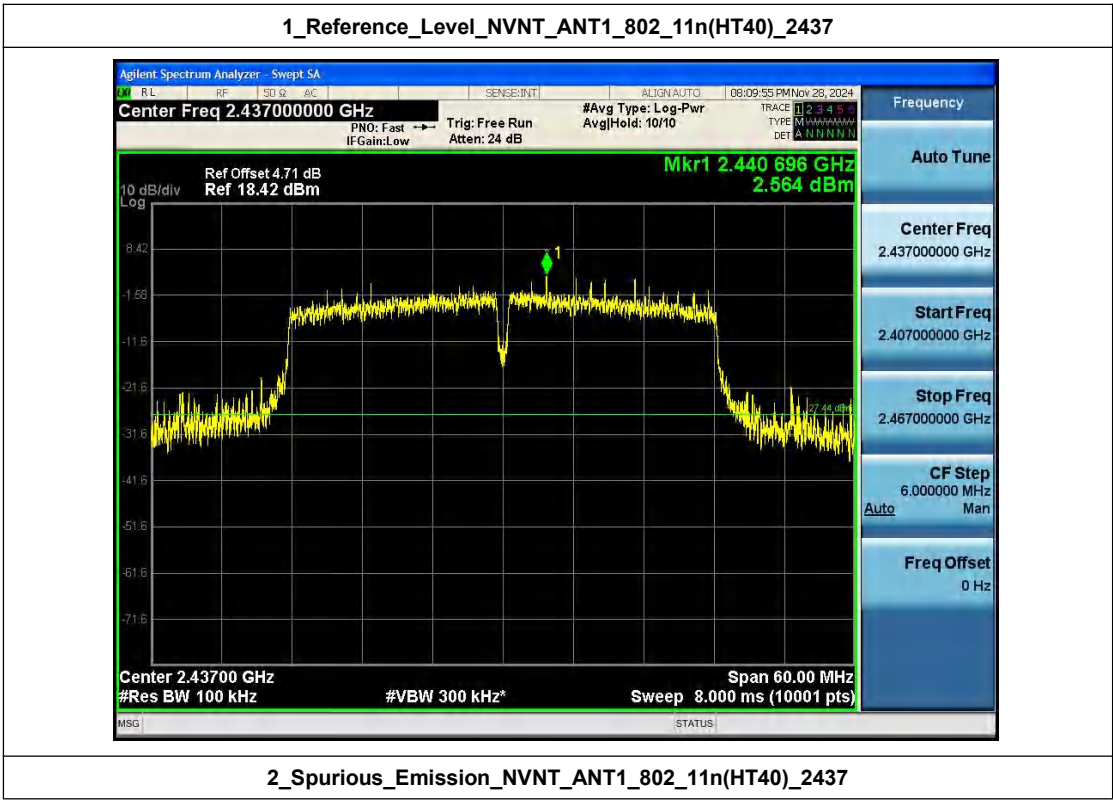


2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2422





1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2437

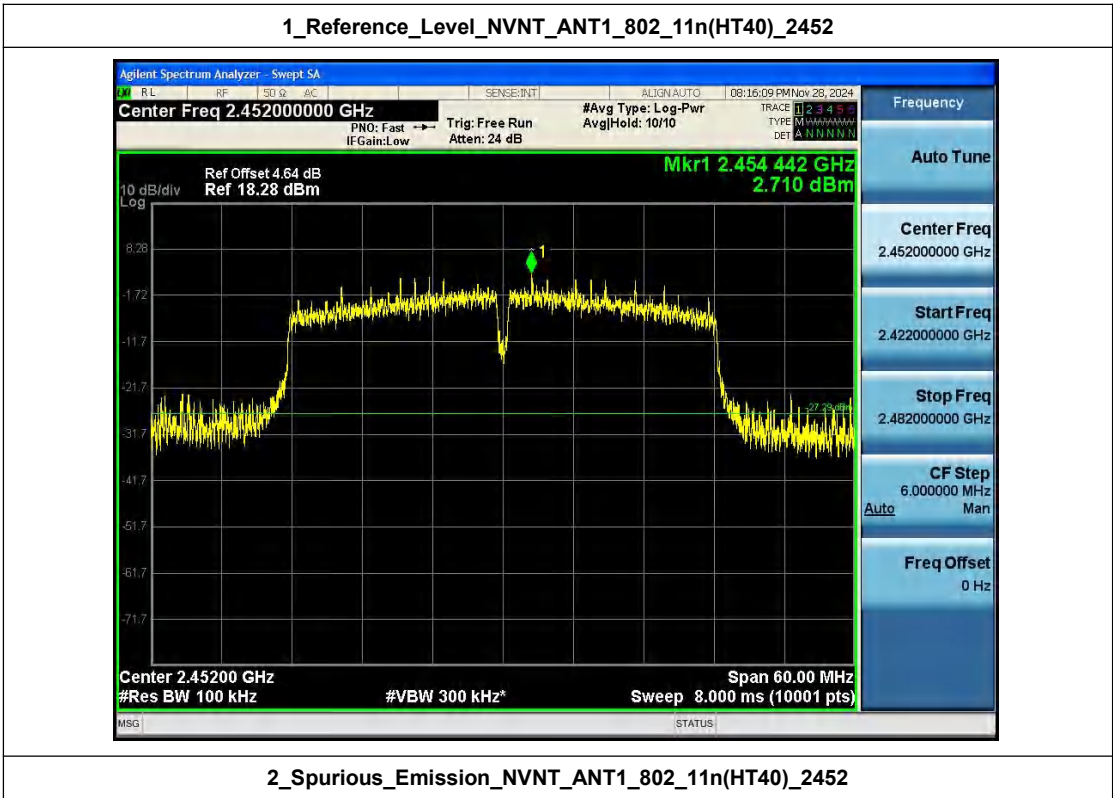


2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2437





1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452



2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2452





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