

Appendix Test Data

Report No.:	1812C40093912503	Test Sample No.:	1-2-2
Start Test Date:	2024.10.9	Finish Test Date:	2024.11.22
Test Engineer:	<i>Foker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	22.7℃	Relative Humidity:	52%
Pressure:	101kPa		

Appendix A: -6dB Bandwidth

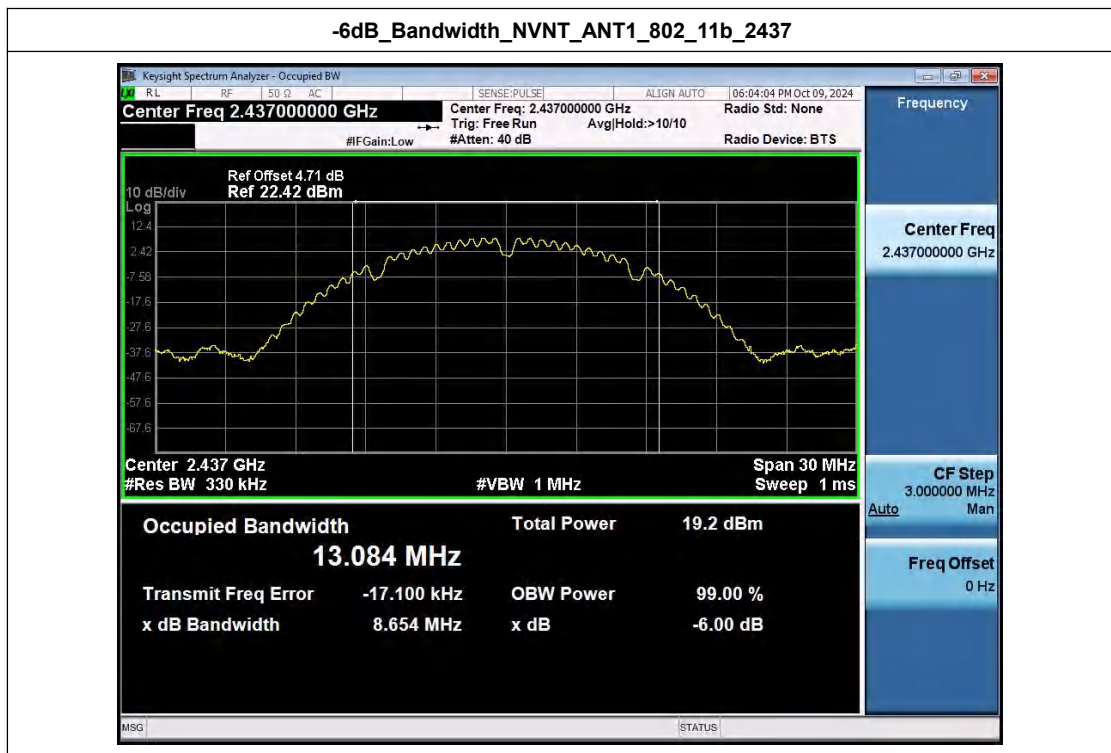
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	8.65	500	Pass
NVNT	ANT1	802.11b	2437.00	8.65	500	Pass
NVNT	ANT1	802.11b	2462.00	8.18	500	Pass
NVNT	ANT1	802.11g	2412.00	15.09	500	Pass
NVNT	ANT1	802.11g	2437.00	16.23	500	Pass
NVNT	ANT1	802.11g	2462.00	16.22	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	15.99	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.43	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.33	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	34.99	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.73	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.91	500	Pass

-6dB_Bandwidth_NVNT_ANT1_802_11b_2412





-6dB_Bandwidth_NVNT_ANT1_802_11b_2437

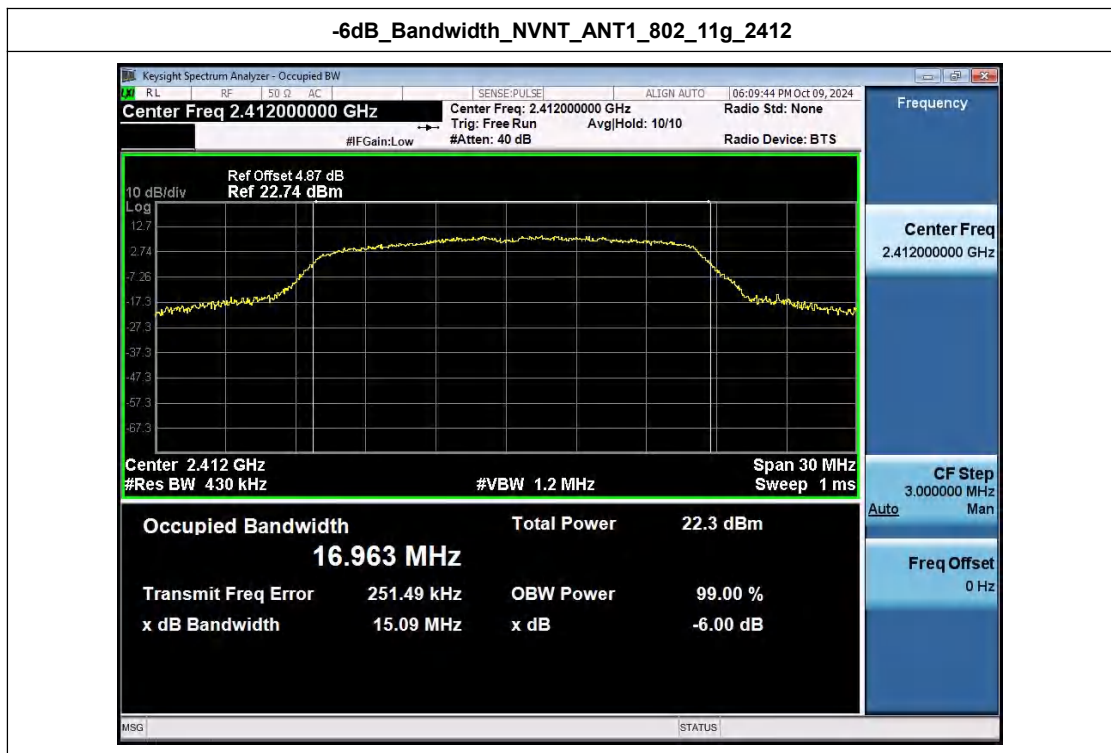


-6dB_Bandwidth_NVNT_ANT1_802_11b_2462





-6dB_Bandwidth_NVNT_ANT1_802_11g_2412

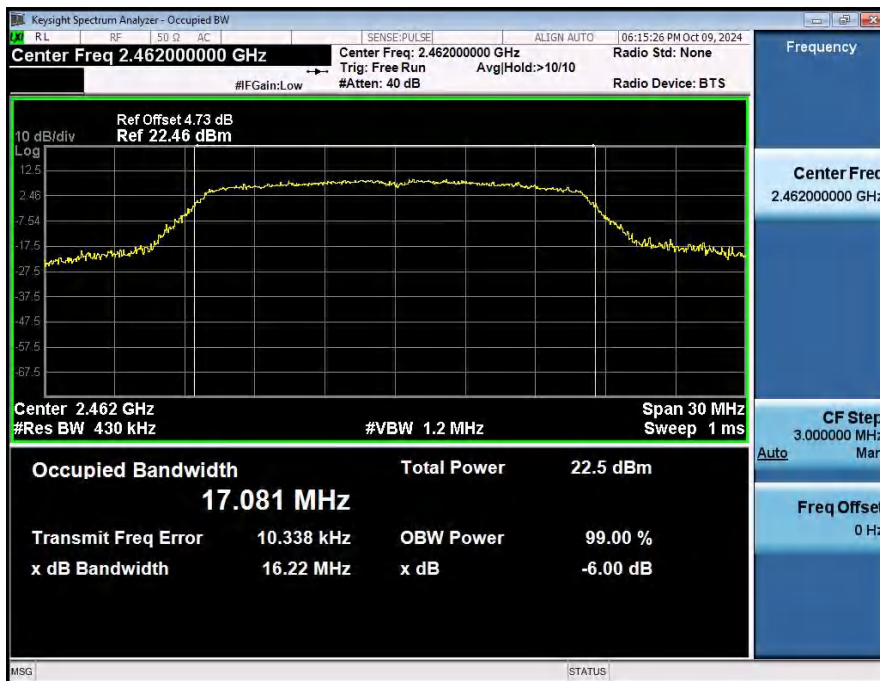


-6dB_Bandwidth_NVNT_ANT1_802_11g_2437



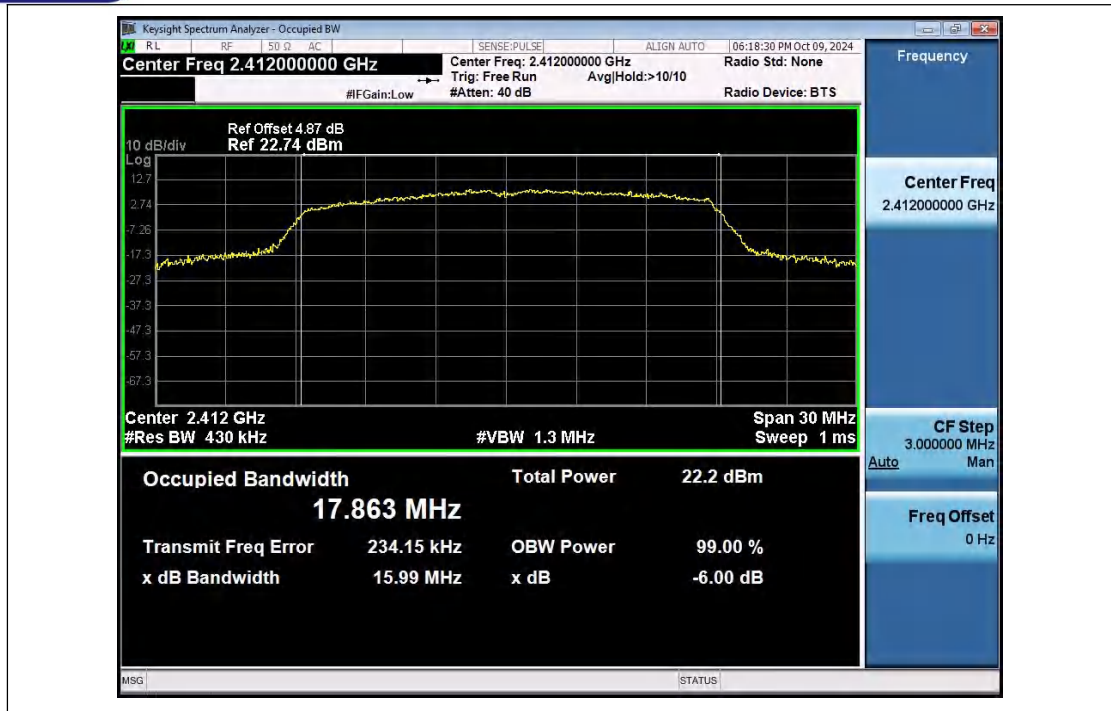


-6dB_Bandwidth_NVNT_ANT1_802_11g_2462

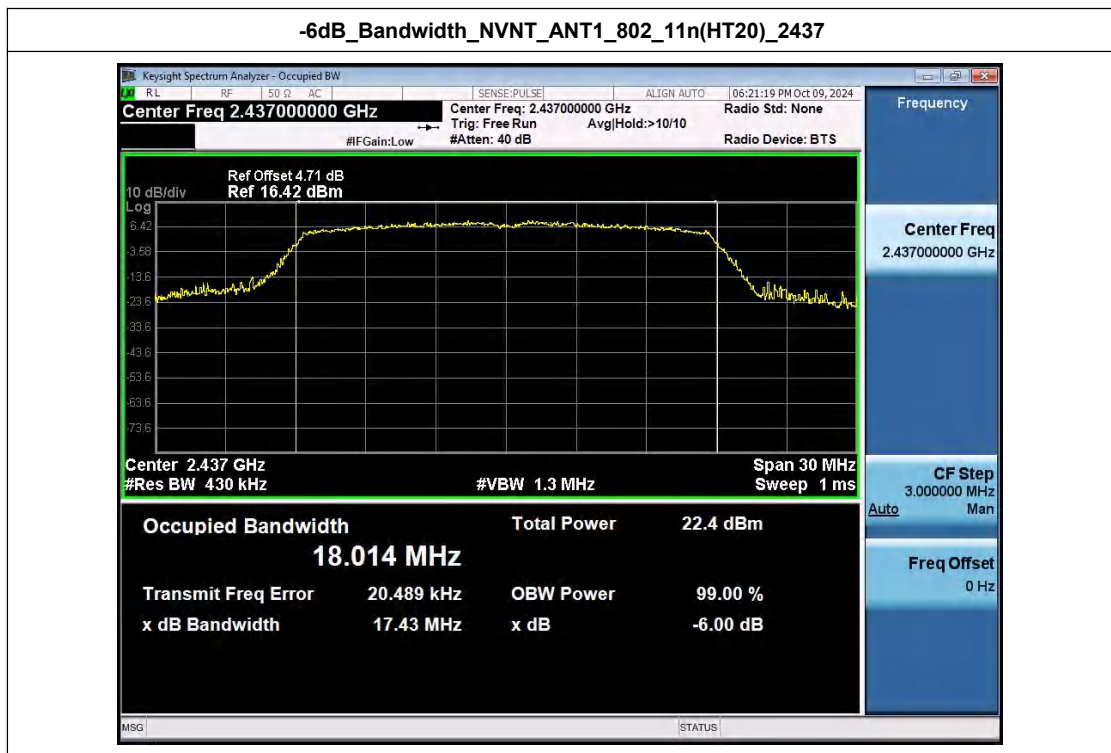


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412





-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437

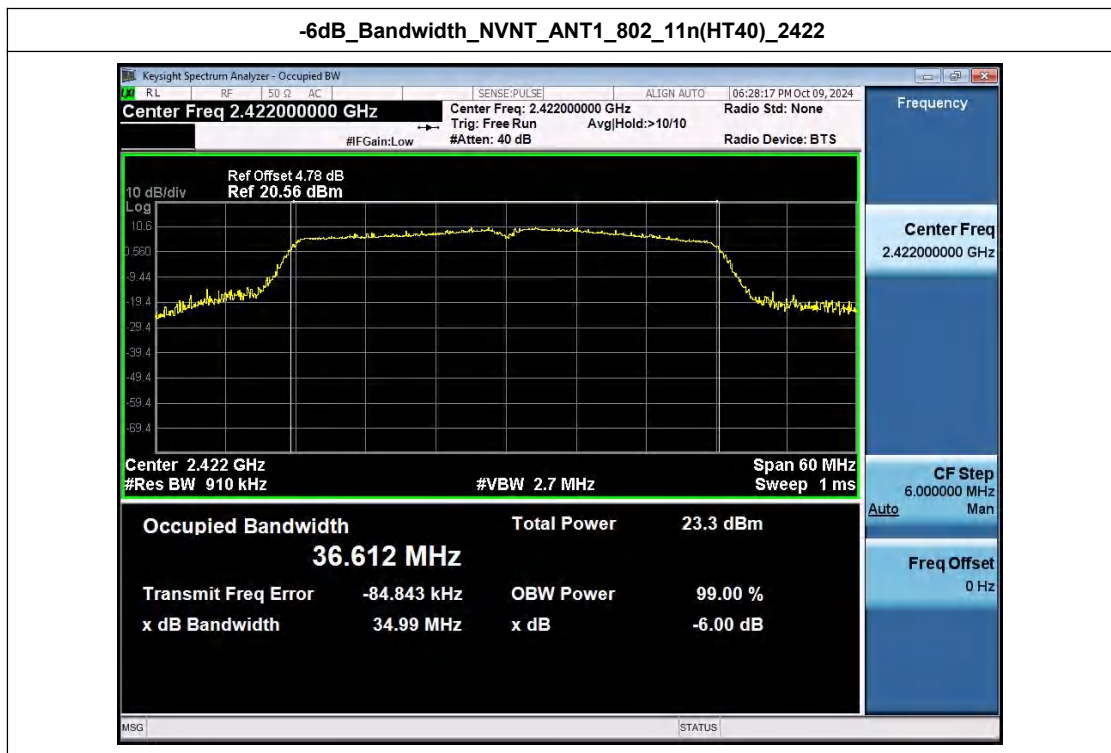


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



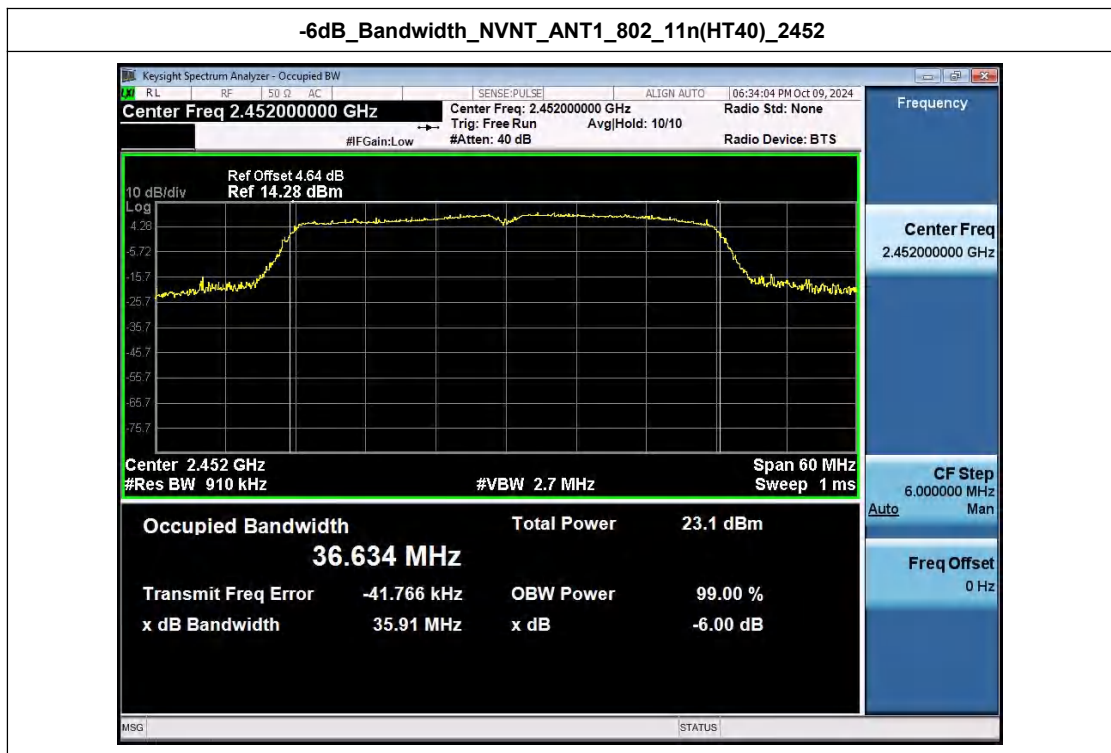


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



-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	13.133
NVNT	ANT1	802.11b	2437.00	13.098
NVNT	ANT1	802.11b	2462.00	12.684
NVNT	ANT1	802.11g	2412.00	17.233
NVNT	ANT1	802.11g	2437.00	17.416
NVNT	ANT1	802.11g	2462.00	17.314
NVNT	ANT1	802.11n(HT20)	2412.00	18.063
NVNT	ANT1	802.11n(HT20)	2437.00	18.335
NVNT	ANT1	802.11n(HT20)	2462.00	18.189
NVNT	ANT1	802.11n(HT40)	2422.00	36.675
NVNT	ANT1	802.11n(HT40)	2437.00	36.610
NVNT	ANT1	802.11n(HT40)	2452.00	36.625

99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2412

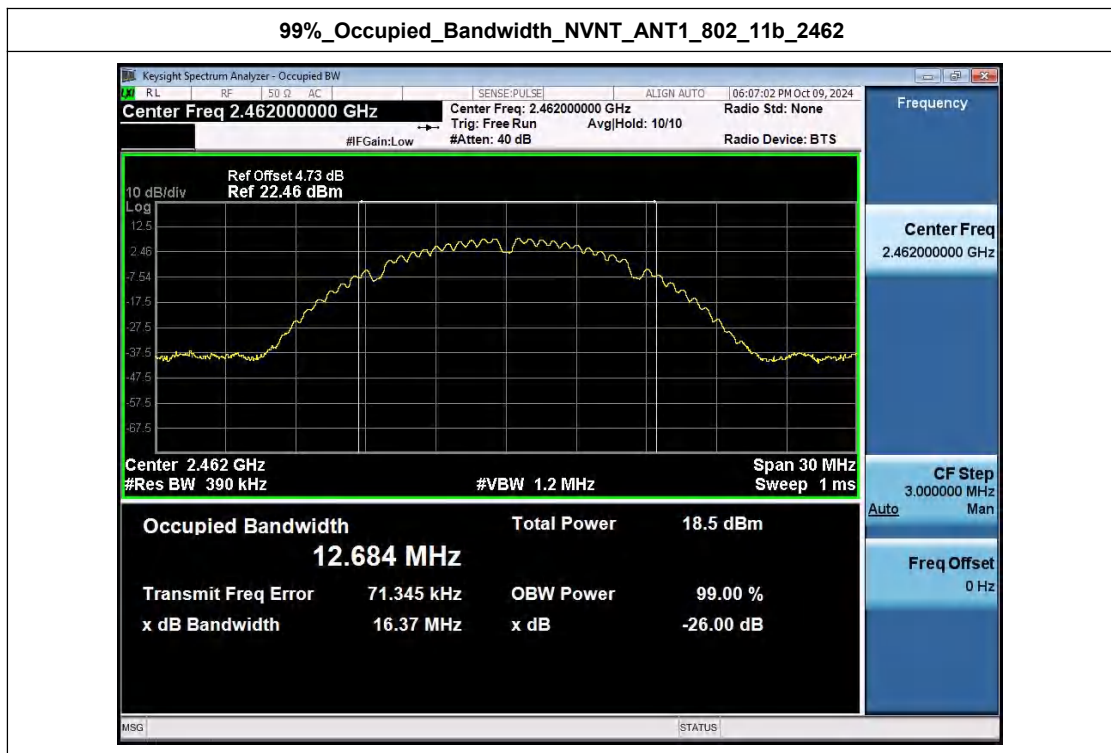


99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2437



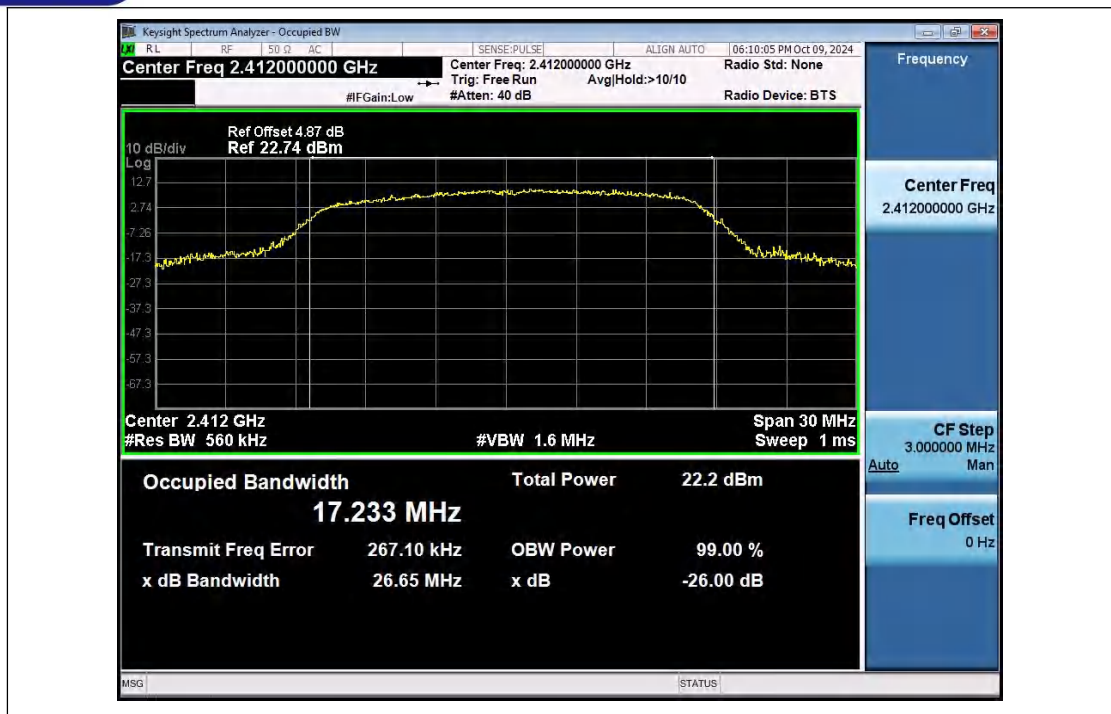


99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2462

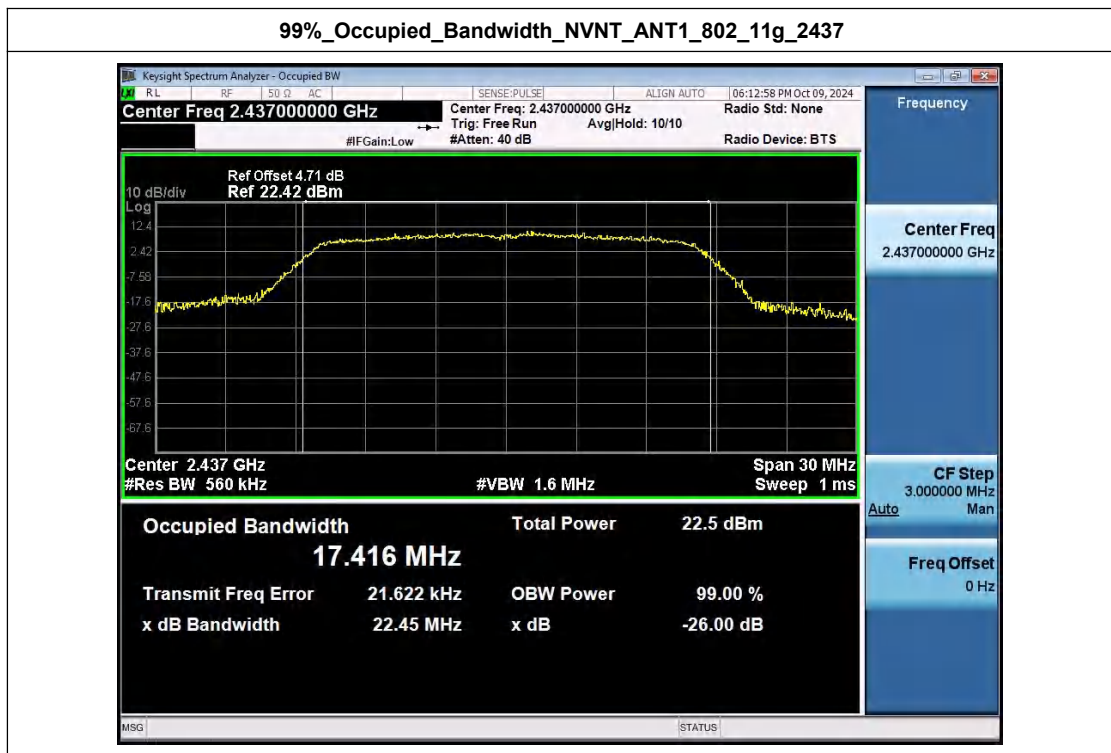


99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2412



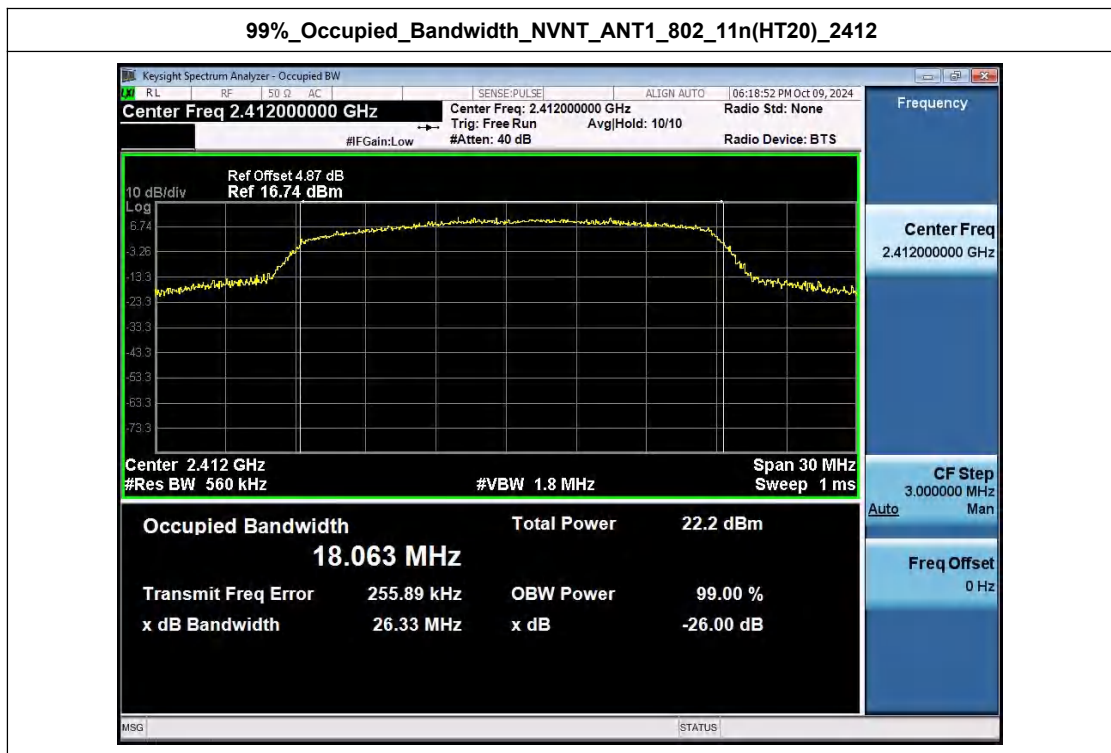


99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2437



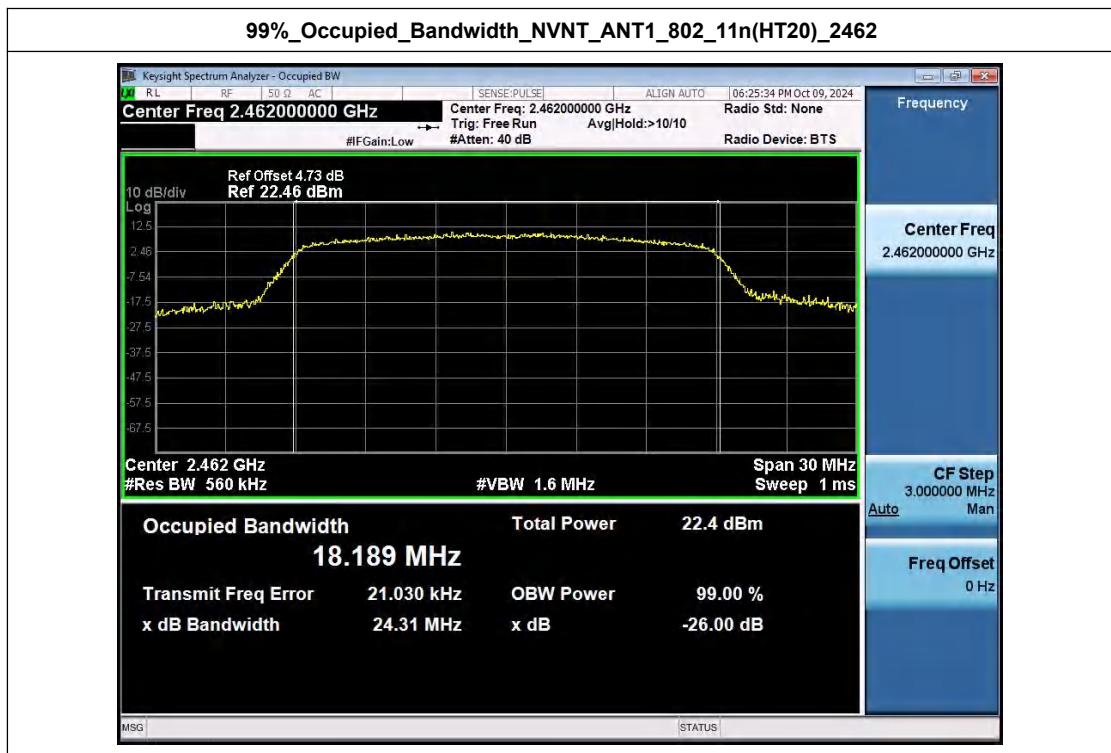
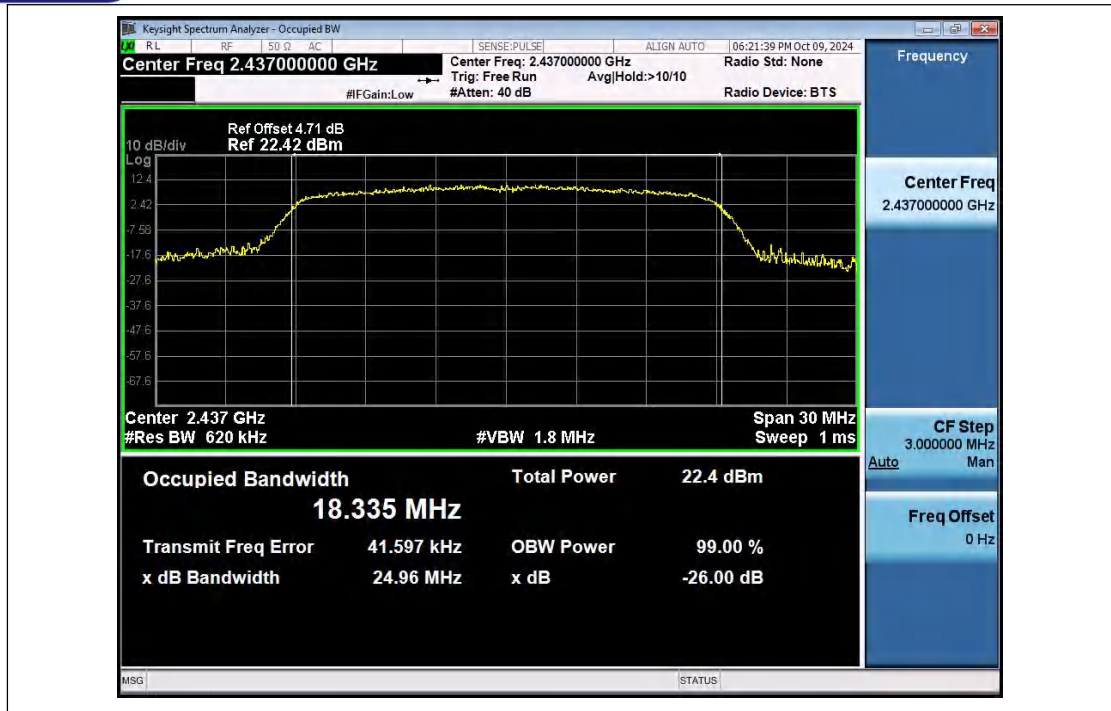
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2462





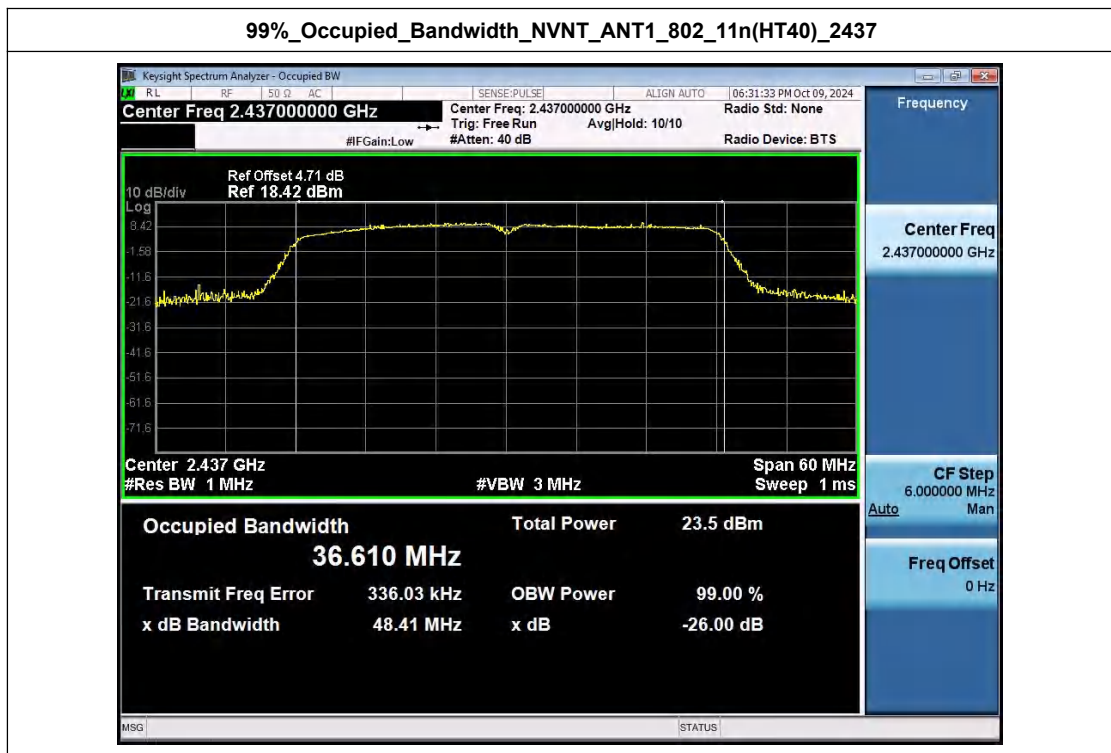
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437





99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422





99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452





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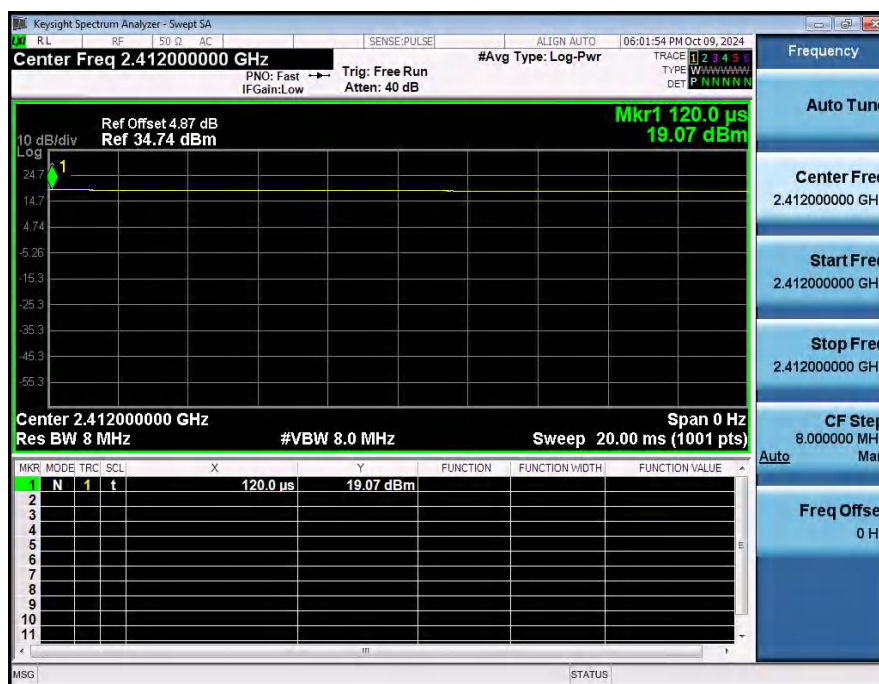
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Appendix C: Duty Cycle

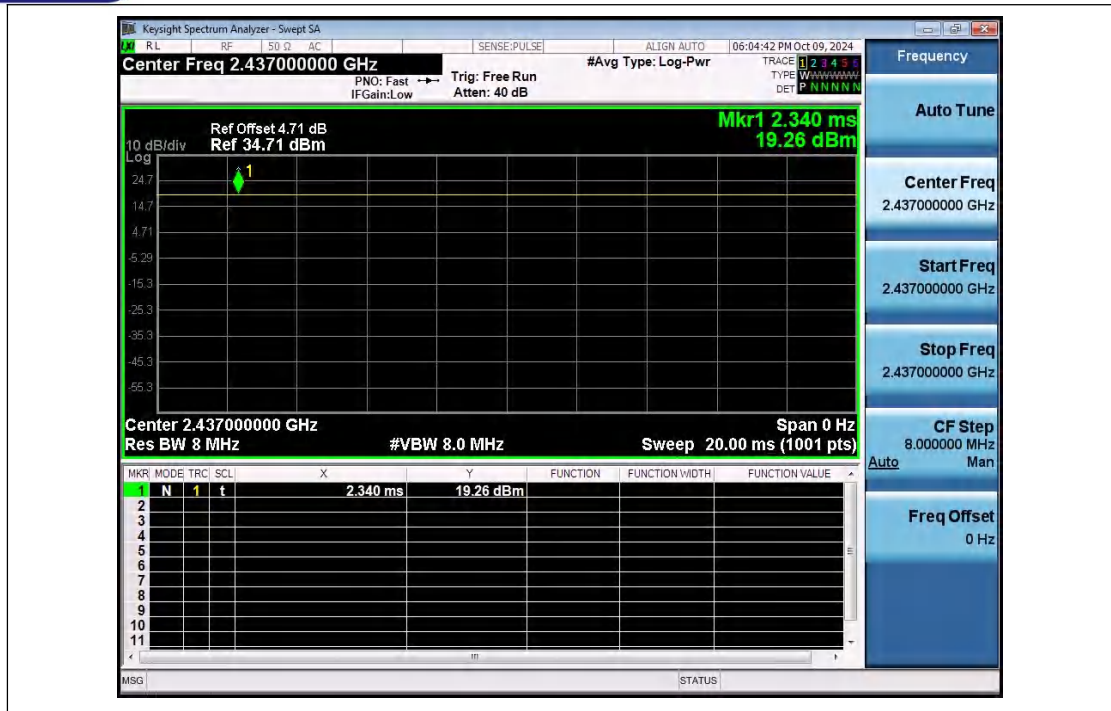
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	100	0.00
NVNT	ANT1	802.11b	2437.00	100	0.00
NVNT	ANT1	802.11b	2462.00	100	0.00
NVNT	ANT1	802.11g	2412.00	100	0.00
NVNT	ANT1	802.11g	2437.00	100	0.00
NVNT	ANT1	802.11g	2462.00	100	0.00
NVNT	ANT1	802.11n(HT20)	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
NVNT	ANT1	802.11n(HT40)	2422.00	100	0.00
NVNT	ANT1	802.11n(HT40)	2437.00	100	0.00
NVNT	ANT1	802.11n(HT40)	2452.00	100	0.00

Duty_Cycle_NVNT_ANT1_802_11b_2412

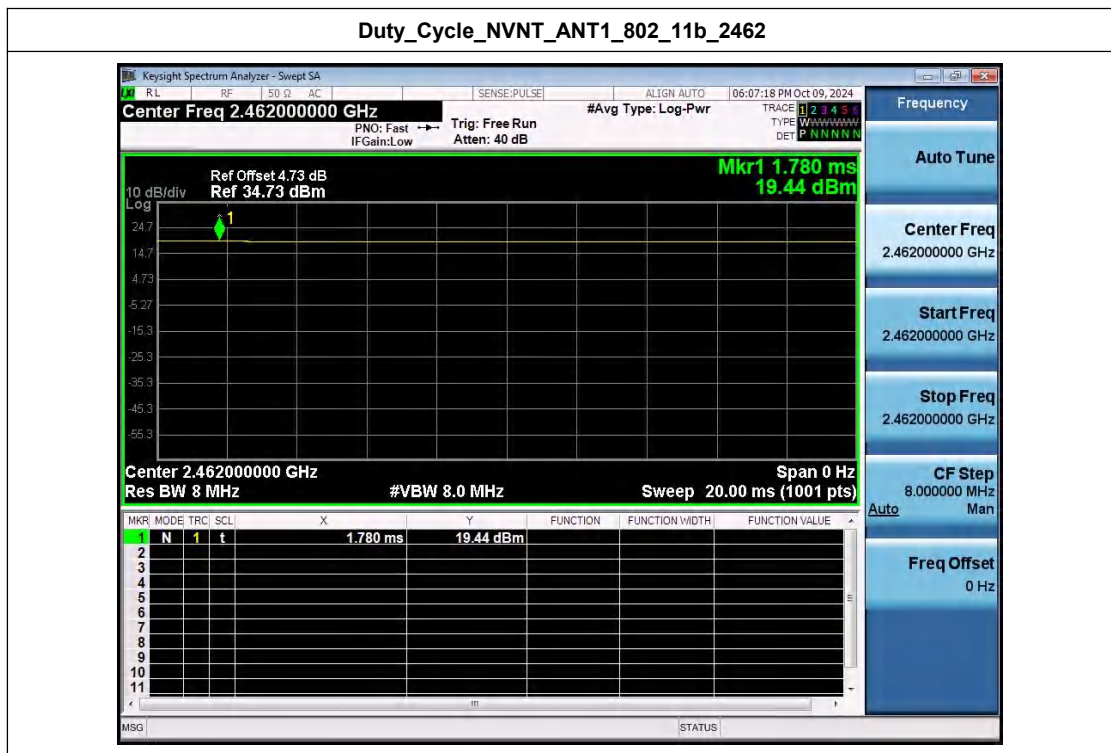


Duty_Cycle_NVNT_ANT1_802_11b_2437



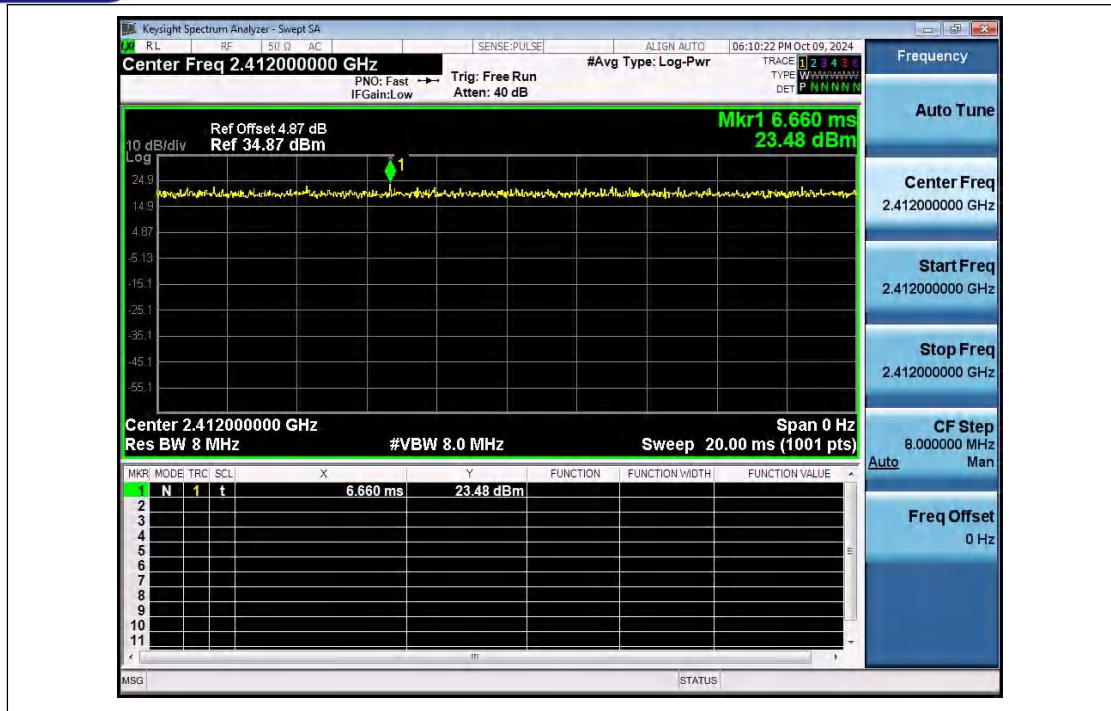


Duty_Cycle_NVNT_ANT1_802_11b_2462

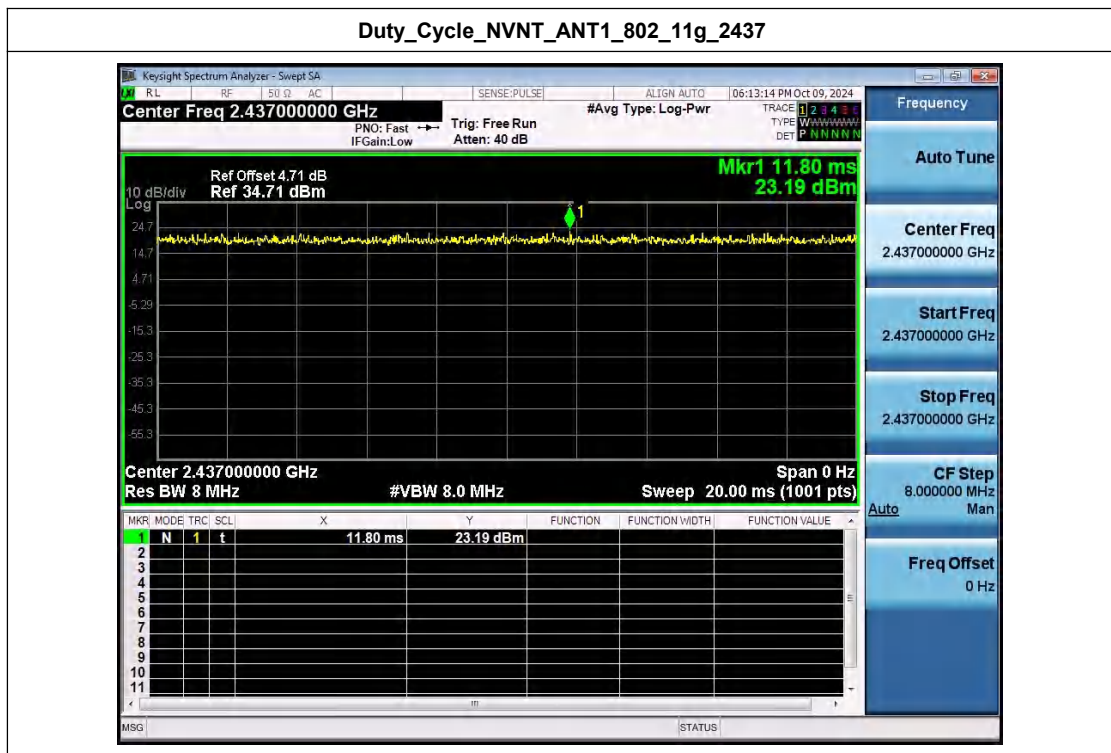


Duty_Cycle_NVNT_ANT1_802_11g_2412



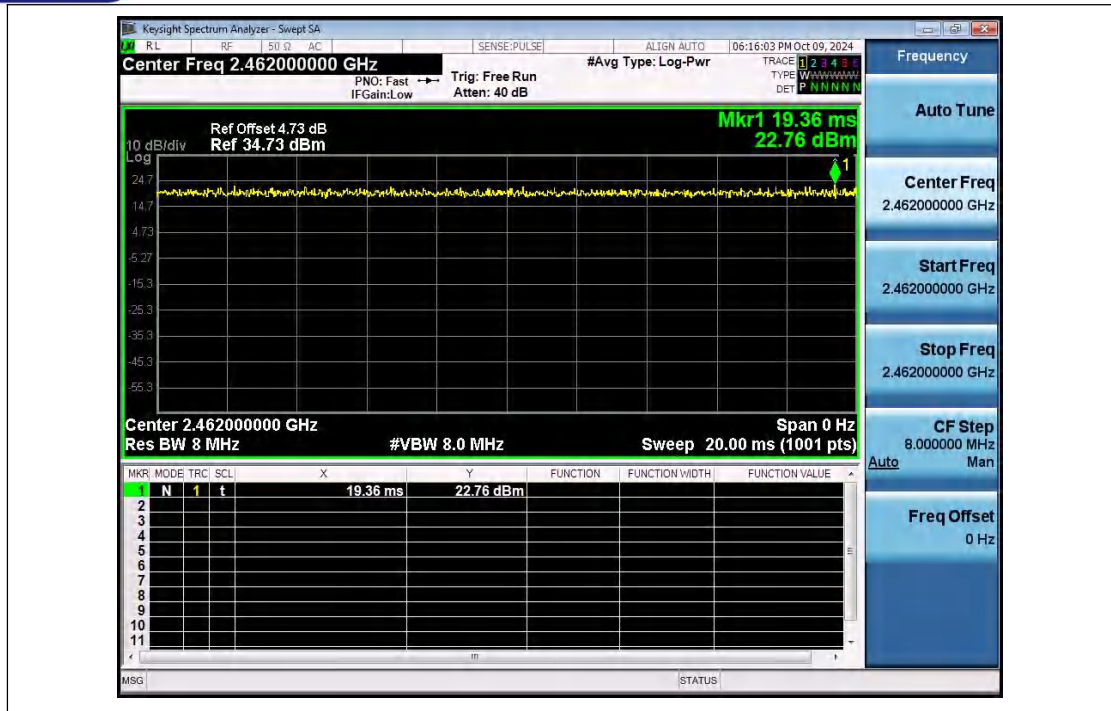


Duty_Cycle_NVNT_ANT1_802_11g_2437

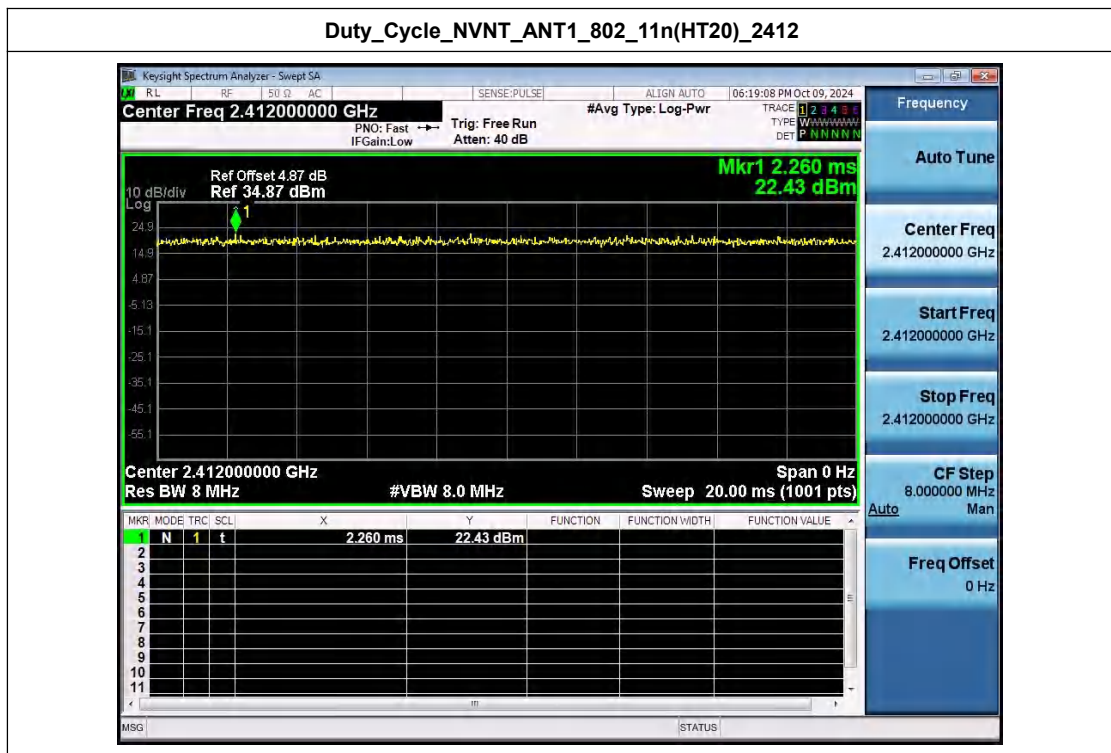


Duty_Cycle_NVNT_ANT1_802_11g_2462



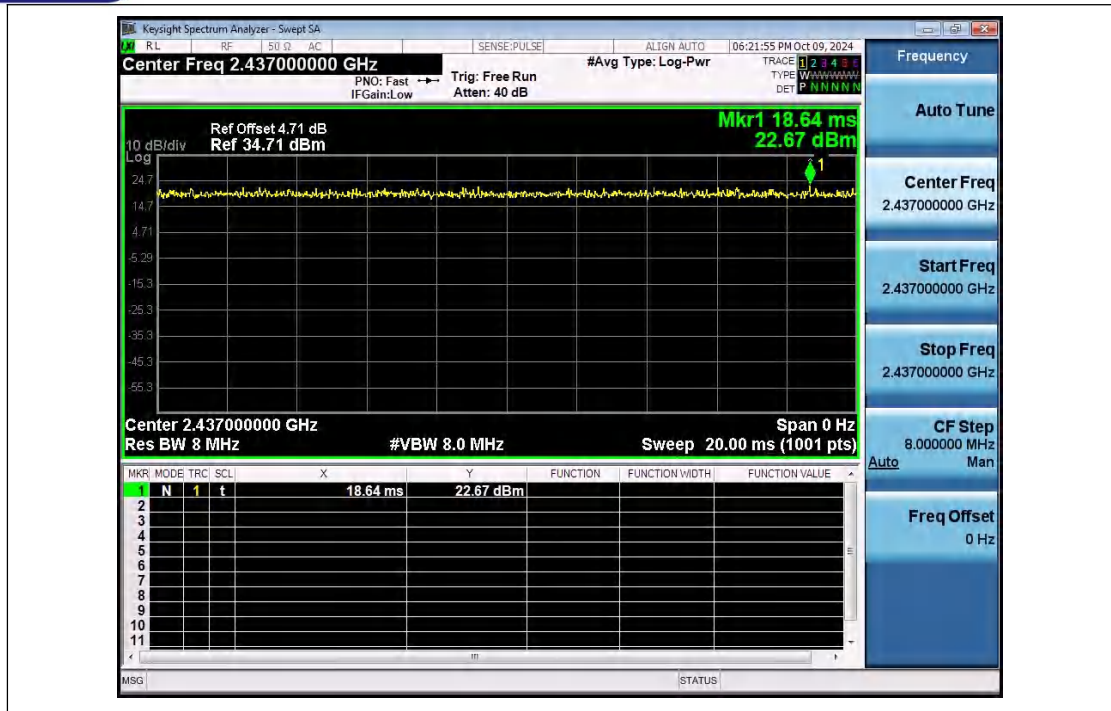


Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412

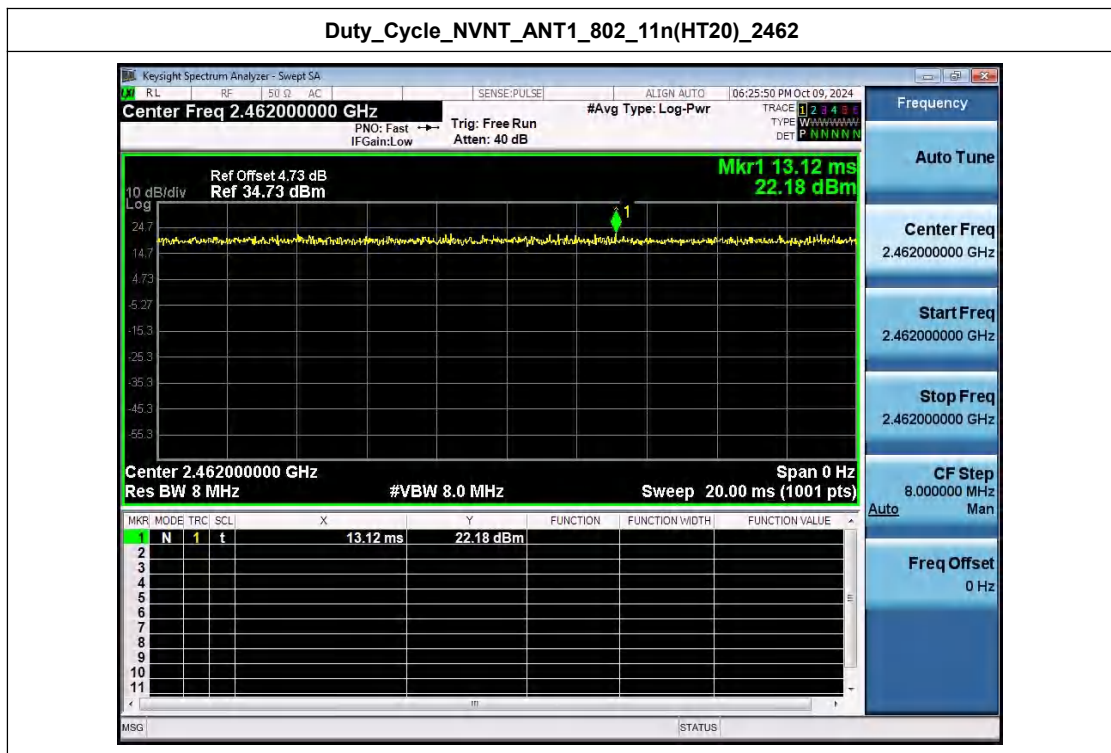


Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



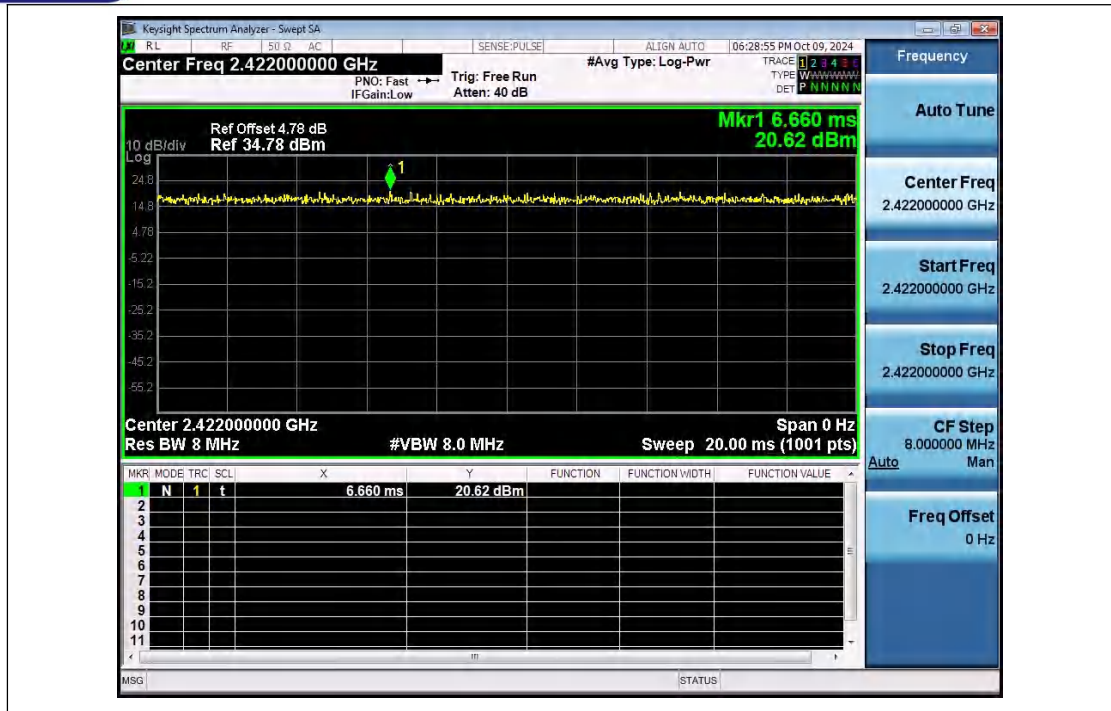


Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462

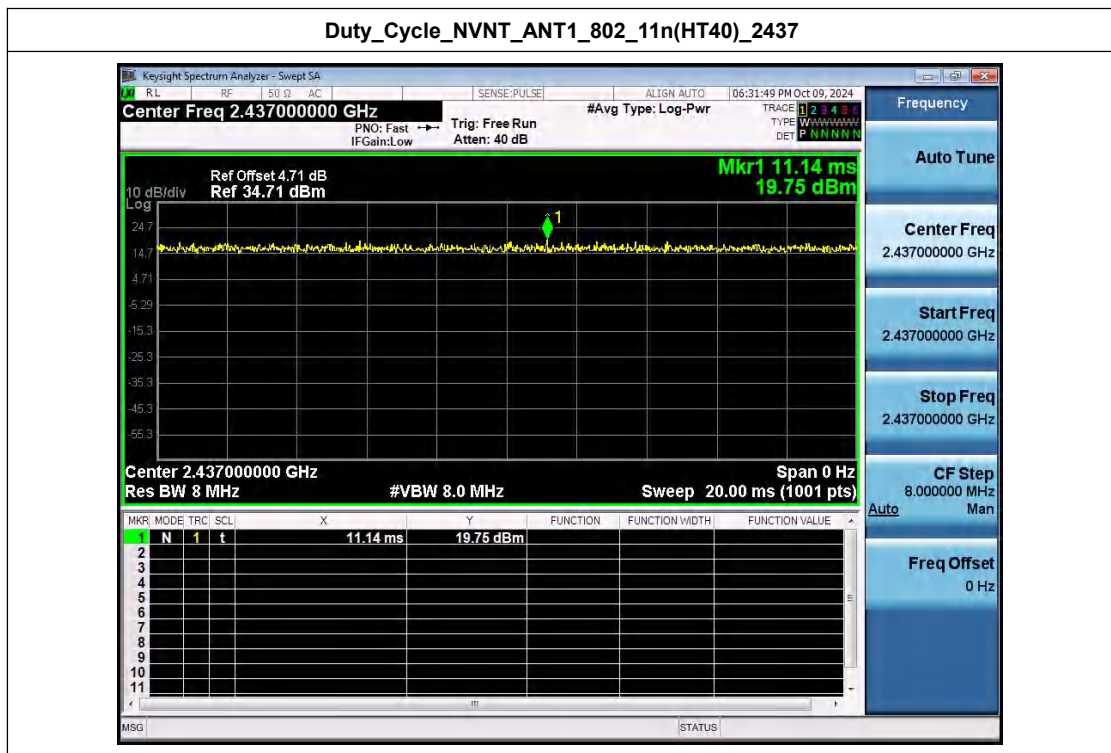


Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2422



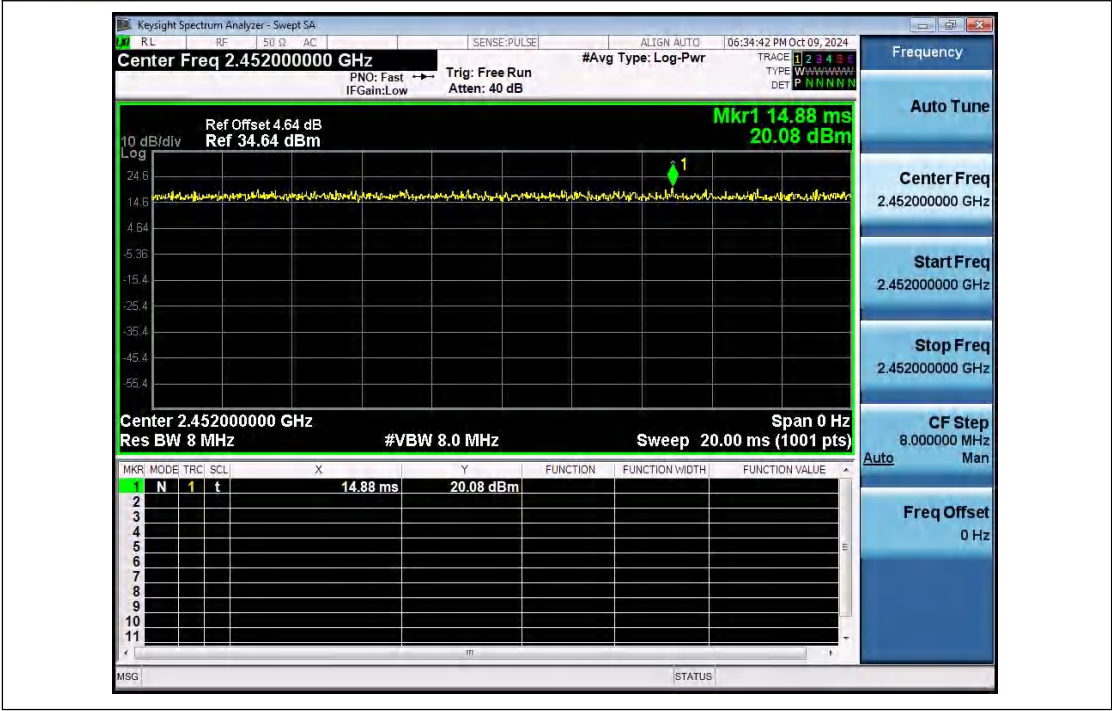


Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2437



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2452





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Appendix D: MAX. Output Power

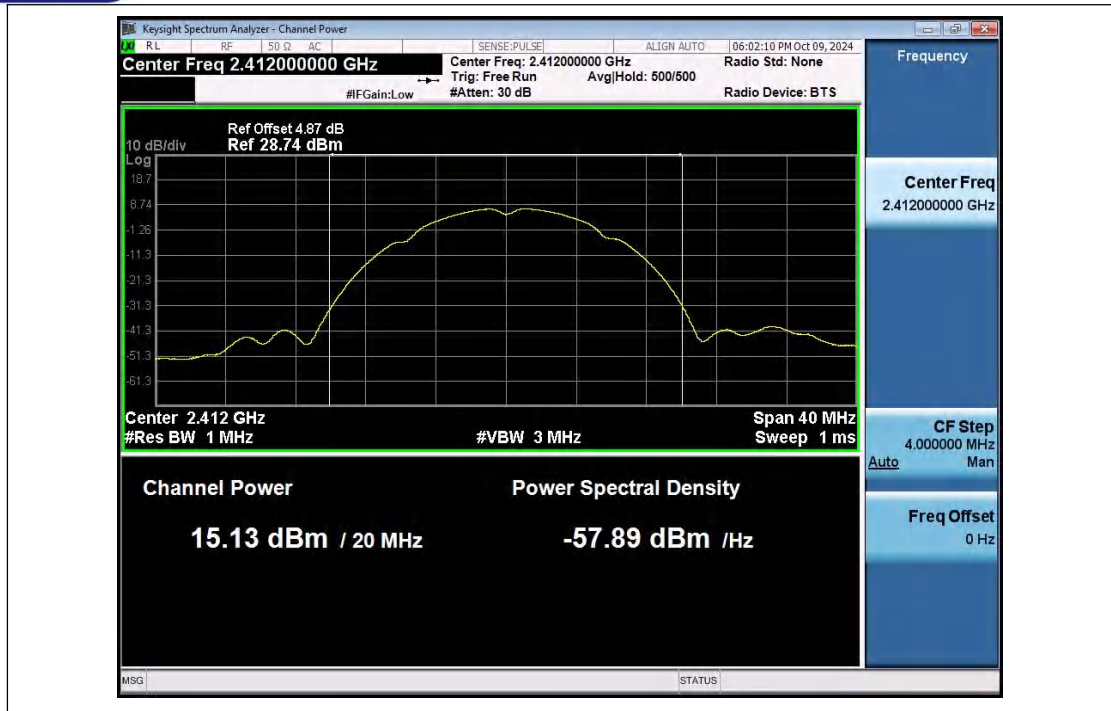
Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)(RBW=1MHz)	Duty factor(dB)	Total Power(dBm)(RBW=1MHz)	Total Power(dBm)(RBW=430kHz)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	RMS	15.13	0.00	15.13	11.46	30	Pass
NVNT	ANT1	802.11b	2437.00	RMS	15.69	0.00	15.69	12.02	30	Pass
NVNT	ANT1	802.11b	2462.00	RMS	15.42	0.00	15.42	11.75	30	Pass
NVNT	ANT1	802.11g	2412.00	RMS	15.02	0.00	15.02	11.35	30	Pass
NVNT	ANT1	802.11g	2437.00	RMS	15.32	0.00	15.32	11.65	30	Pass
NVNT	ANT1	802.11g	2462.00	RMS	15.32	0.00	15.32	11.65	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	RMS	14.88	0.00	14.88	11.21	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	RMS	15.22	0.00	15.22	11.55	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	RMS	15.19	0.00	15.19	11.52	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	RMS	15.35	0.00	15.35	11.68	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	RMS	15.39	0.00	15.39	11.72	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	RMS	15.29	0.00	15.29	11.62	30	Pass

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

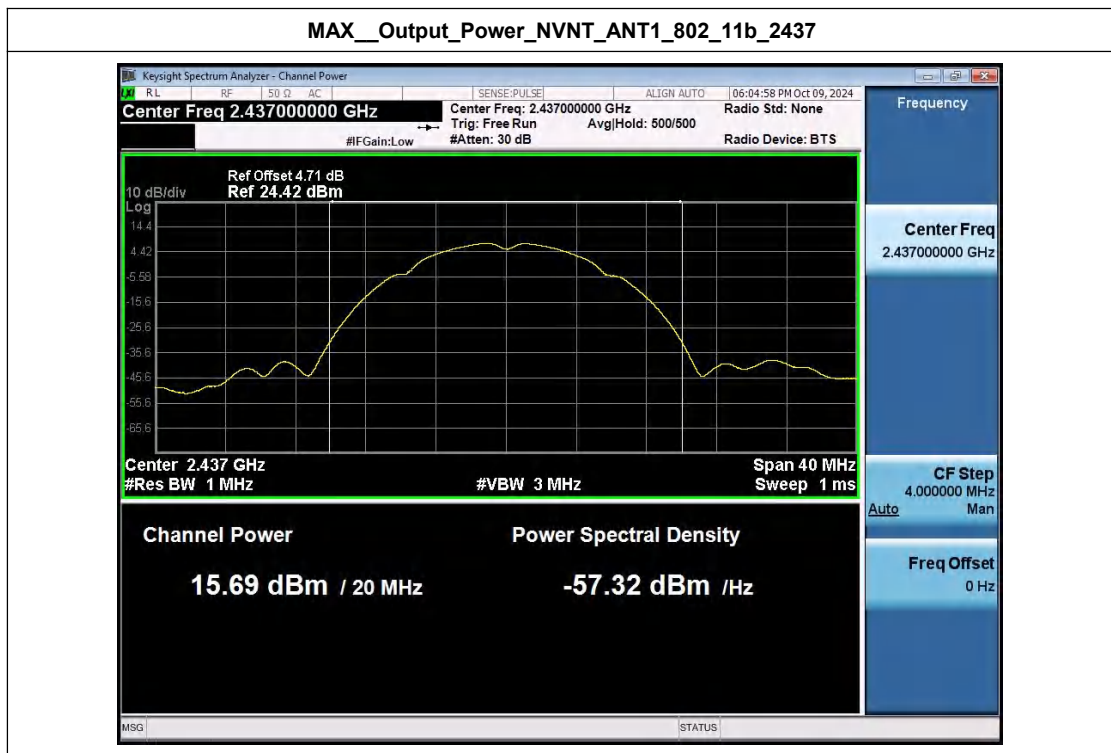
2. $\text{Total Power(dBm)(RBW=430kHz)} = \text{Total Power(dBm)(RBW=1MHz)} + 10 \cdot \log_{10}(430/1000)$

MAX__Output_Power_NVNT_ANT1_802_11b_2412



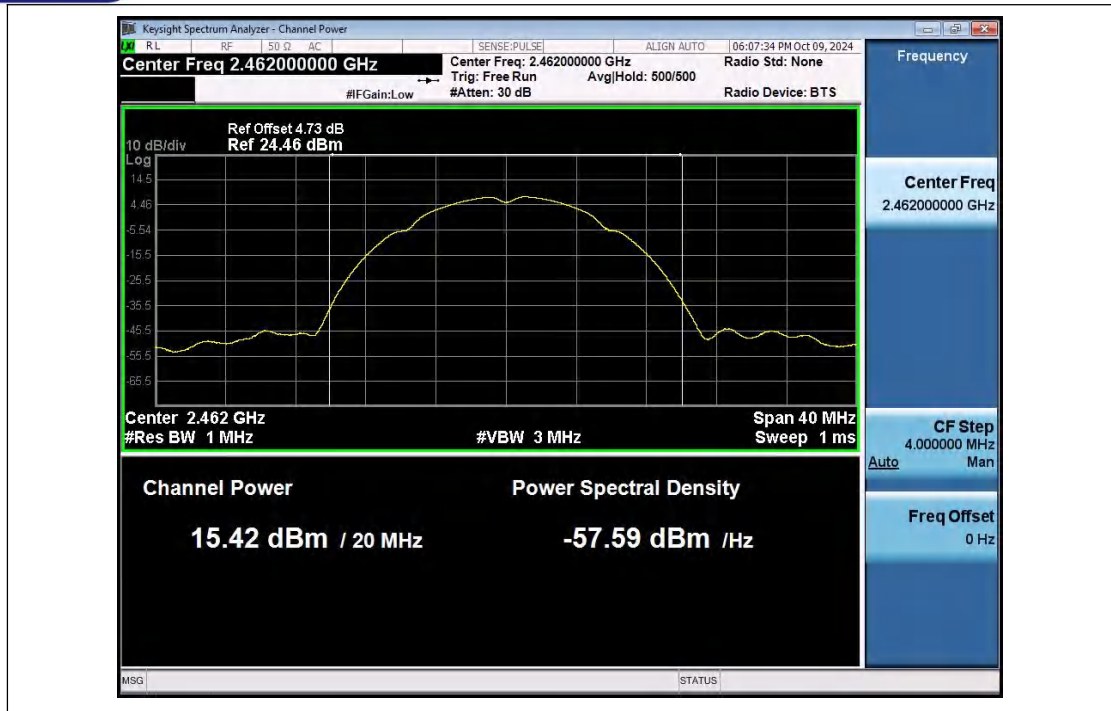


MAX__Output_Power_NVNT_ANT1_802_11b_2437

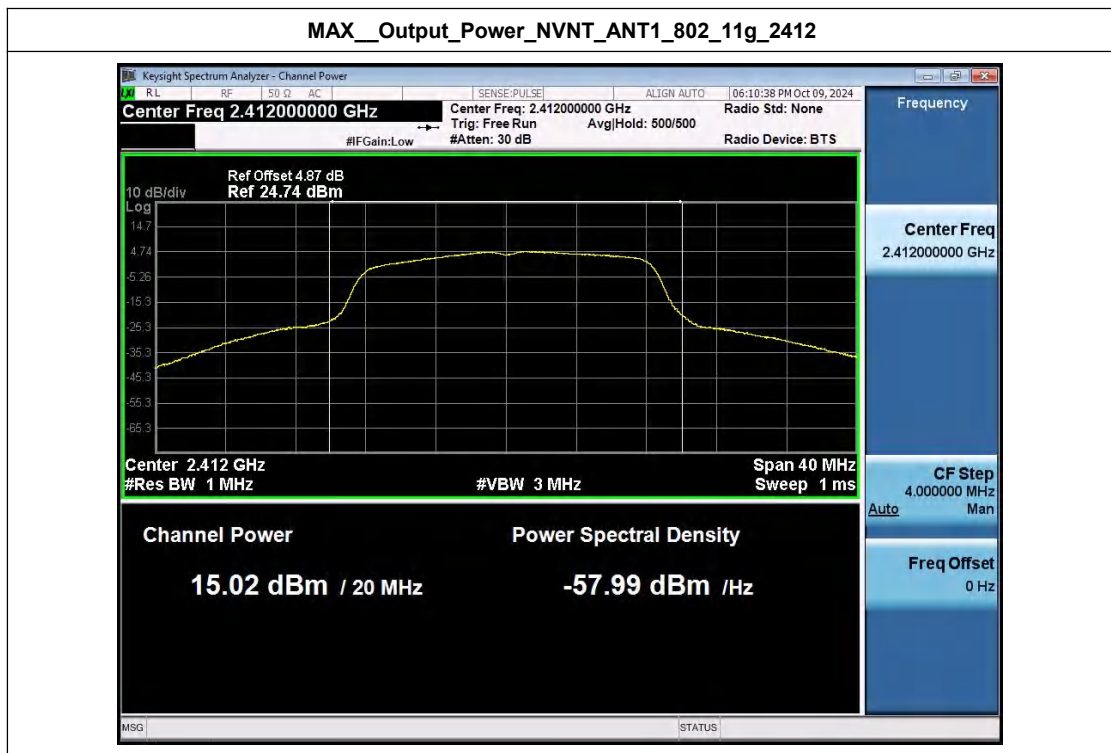


MAX__Output_Power_NVNT_ANT1_802_11b_2462



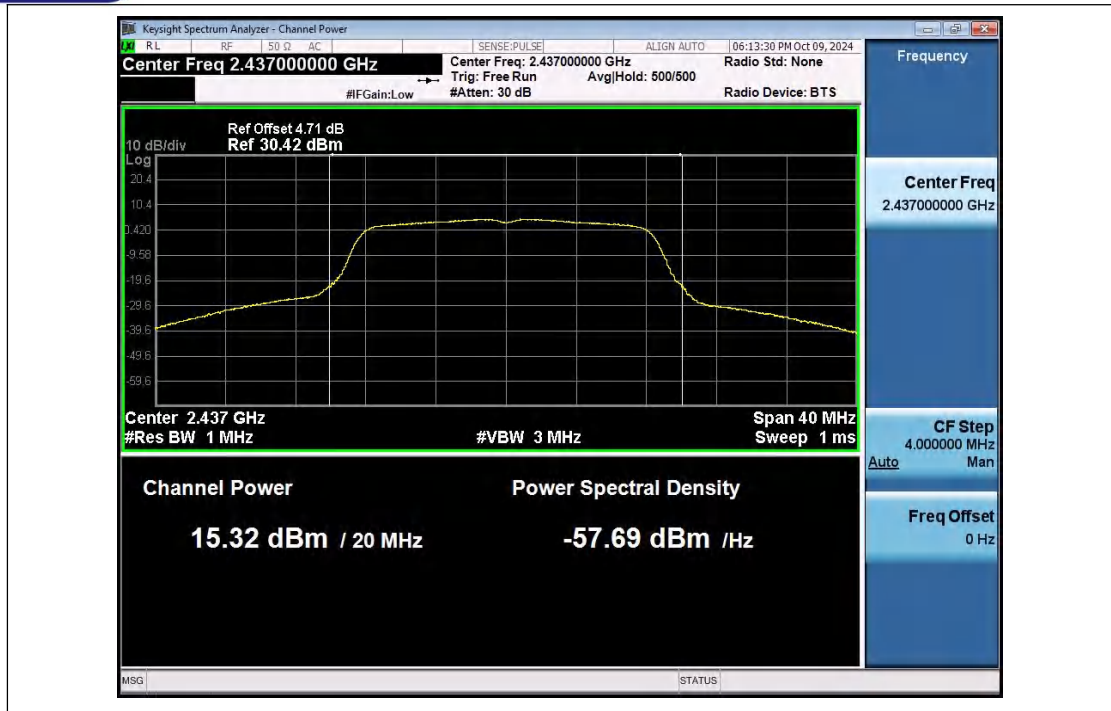


MAX__Output_Power_NVNT_ANT1_802_11g_2412

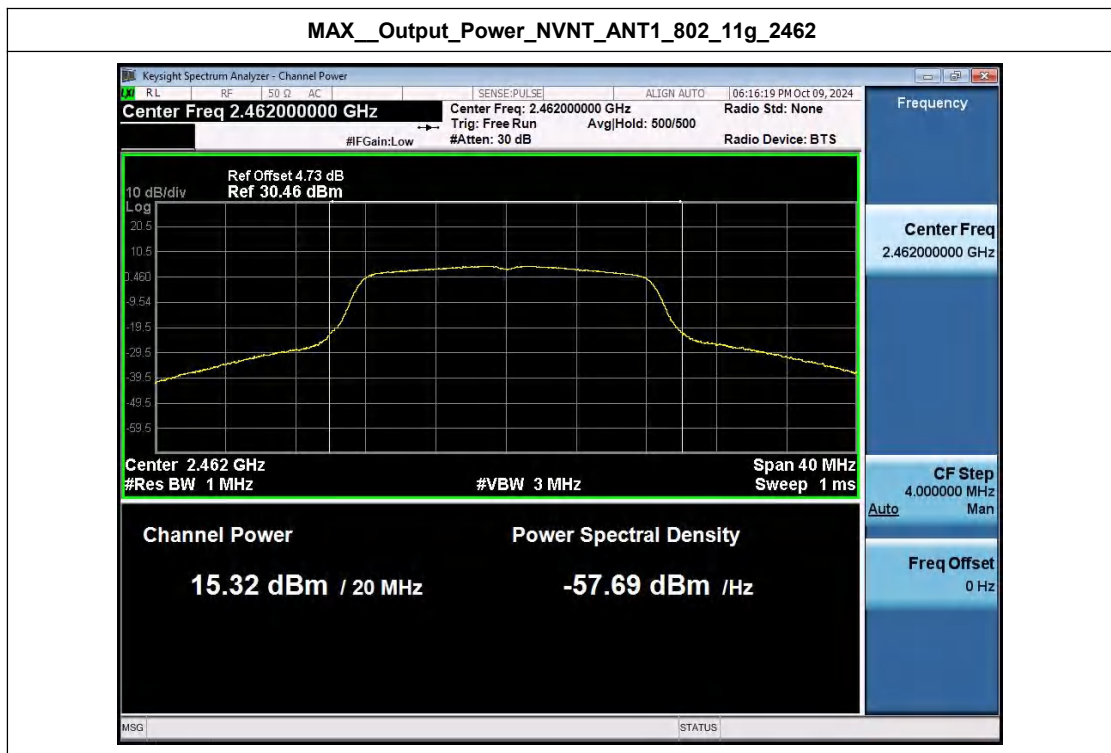


MAX__Output_Power_NVNT_ANT1_802_11g_2437



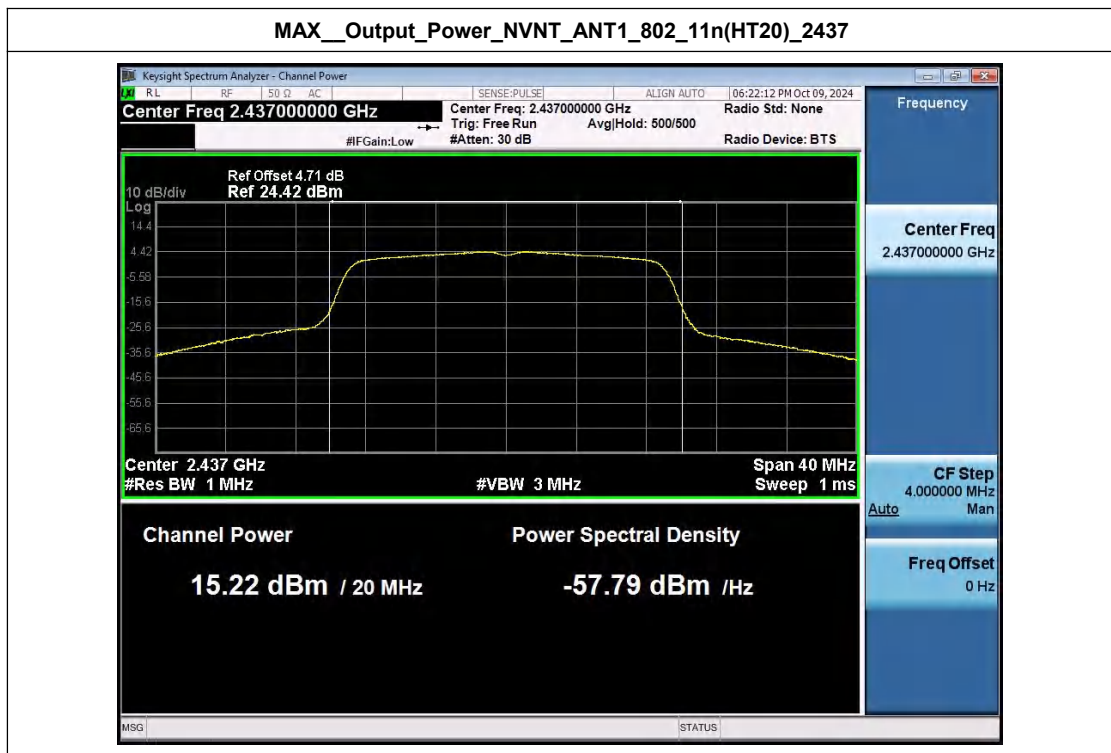
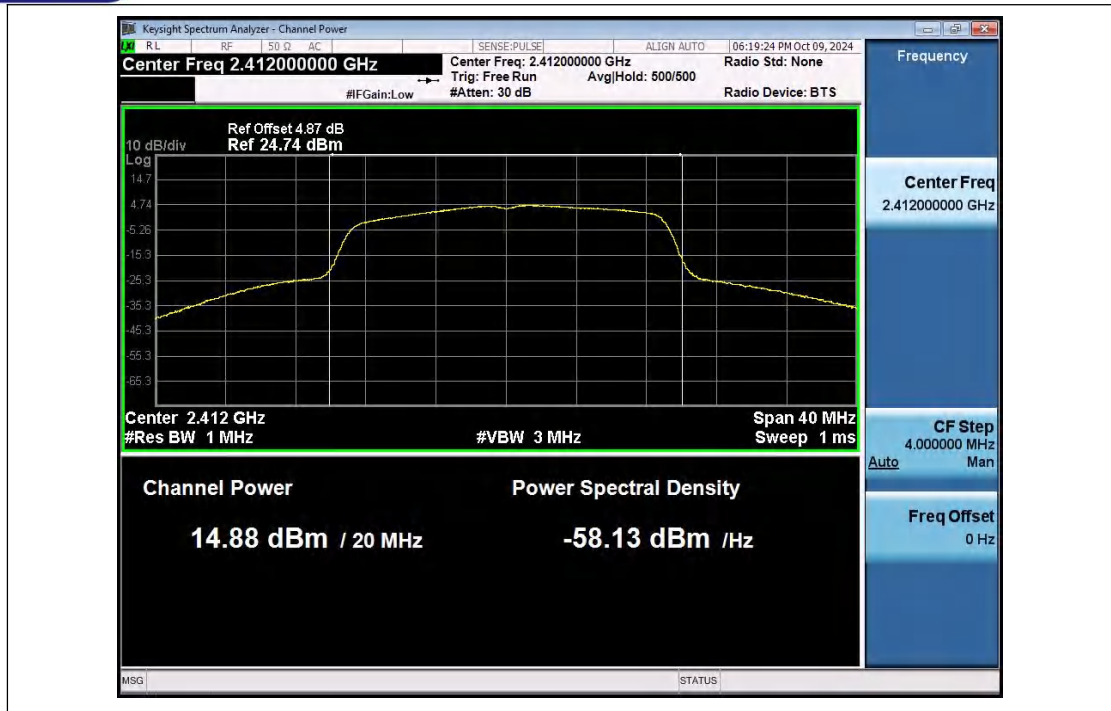


MAX__Output_Power_NVNT_ANT1_802_11g_2462



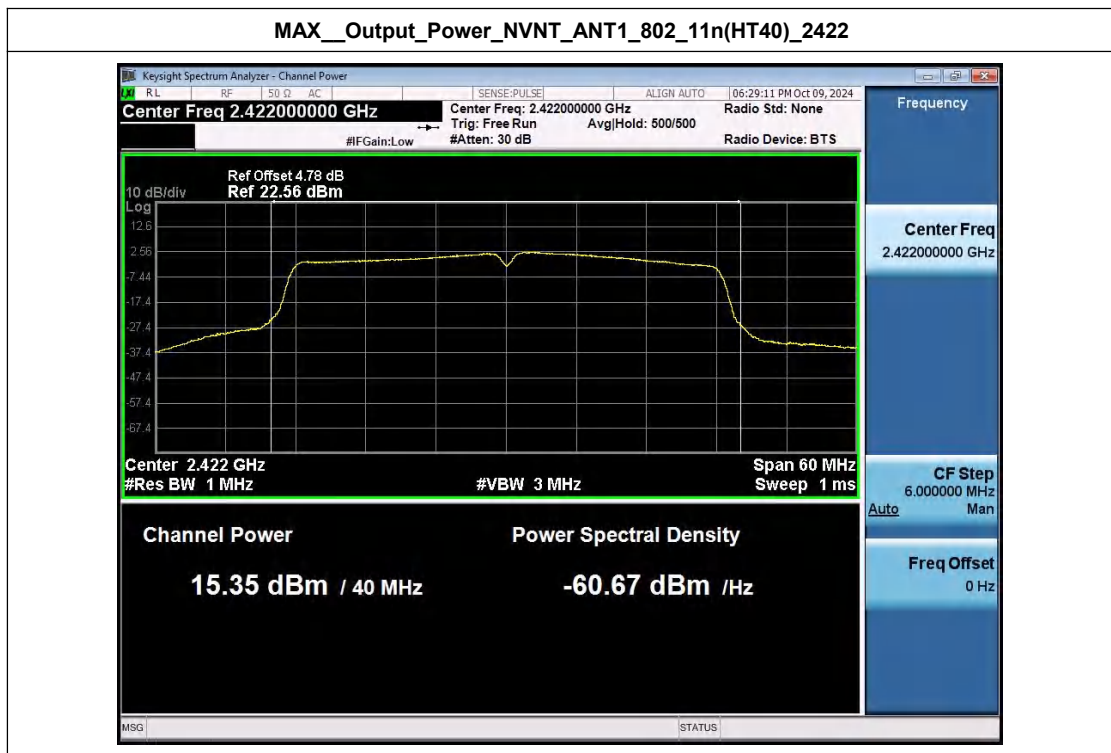
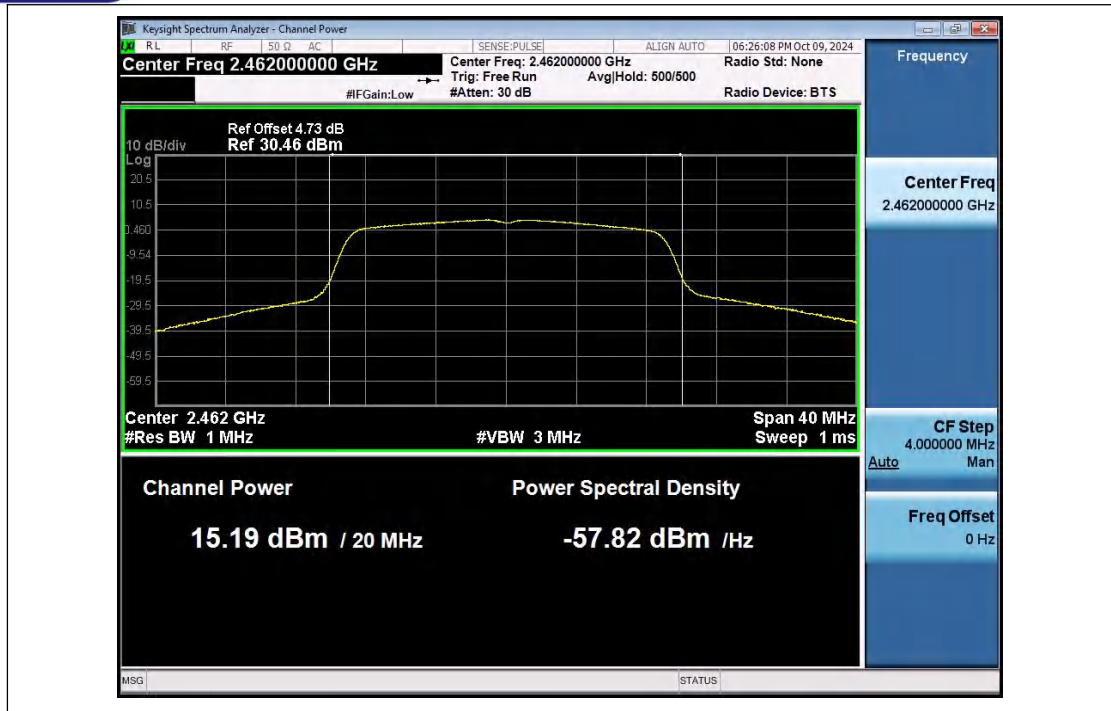
MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2412





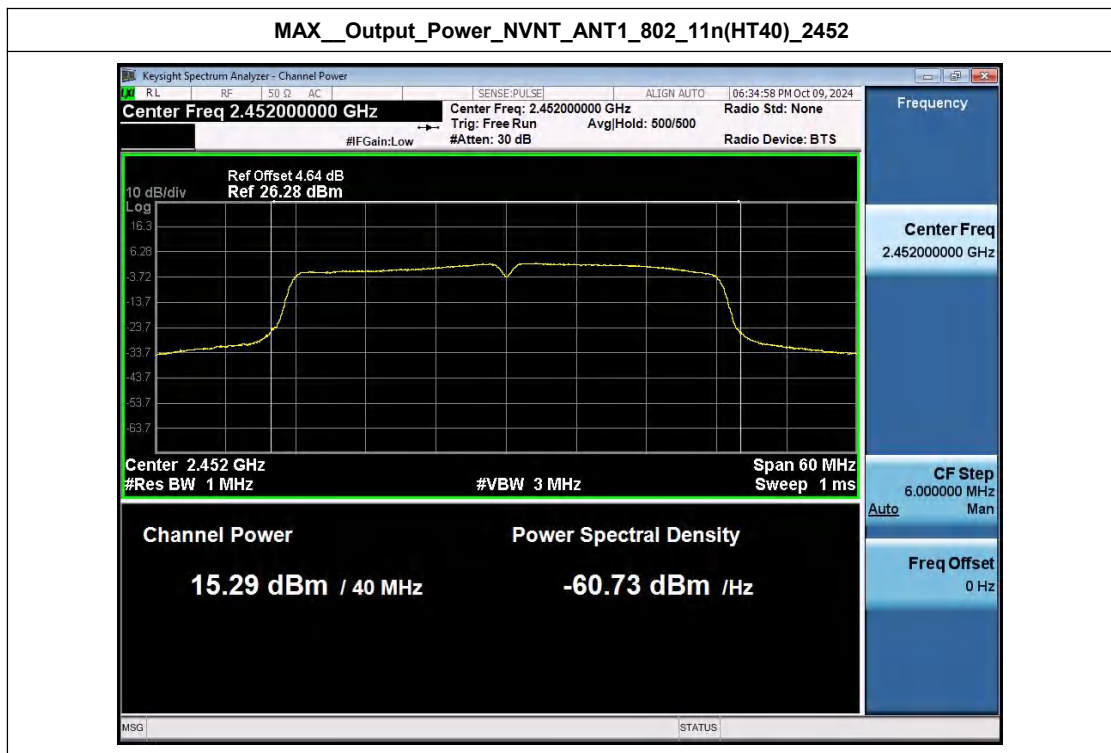
MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2462





MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2437

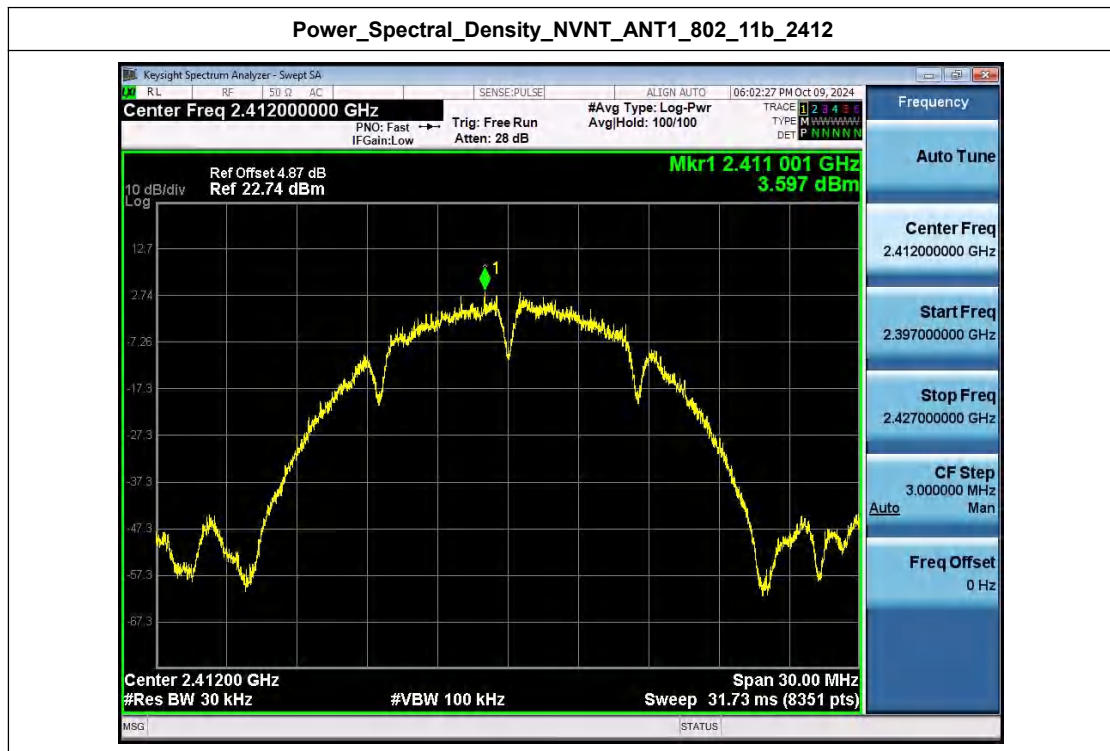




Appendix E: Power Spectral Density

Condi on	Anten na	Modulation	Frequen cy (MHz)	PSD(dBm/30k Hz)	Duty factor(d B)	RB factor(d B)	PSD(dBm/3k Hz)	limit(dBm/3k Hz)	Resu lt
NVNT	ANT1	802.11b	2412.00	3.60	N/A	-10.00	-6.40	8	Pass
NVNT	ANT1	802.11b	2437.00	4.18	N/A	-10.00	-5.82	8	Pass
NVNT	ANT1	802.11b	2462.00	3.41	N/A	-10.00	-6.59	8	Pass
NVNT	ANT1	802.11g	2412.00	0.08	N/A	-10.00	-9.92	8	Pass
NVNT	ANT1	802.11g	2437.00	0.43	N/A	-10.00	-9.57	8	Pass
NVNT	ANT1	802.11g	2462.00	0.16	N/A	-10.00	-9.84	8	Pass
NVNT	ANT1	802.11n(HT 20)	2412.00	-0.43	N/A	-10.00	-10.43	8	Pass
NVNT	ANT1	802.11n(HT 20)	2437.00	-0.10	N/A	-10.00	-10.10	8	Pass
NVNT	ANT1	802.11n(HT 20)	2462.00	0.57	N/A	-10.00	-9.43	8	Pass
NVNT	ANT1	802.11n(HT 40)	2422.00	-2.42	N/A	-10.00	-12.42	8	Pass
NVNT	ANT1	802.11n(HT 40)	2437.00	-3.17	N/A	-10.00	-13.17	8	Pass
NVNT	ANT1	802.11n(HT 40)	2452.00	-2.47	N/A	-10.00	-12.47	8	Pass

Note: The cable loss are compensated in the graph.



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Power_Spectral_Density_NVNT_ANT1_802_11b_2437



Power_Spectral_Density_NVNT_ANT1_802_11b_2462

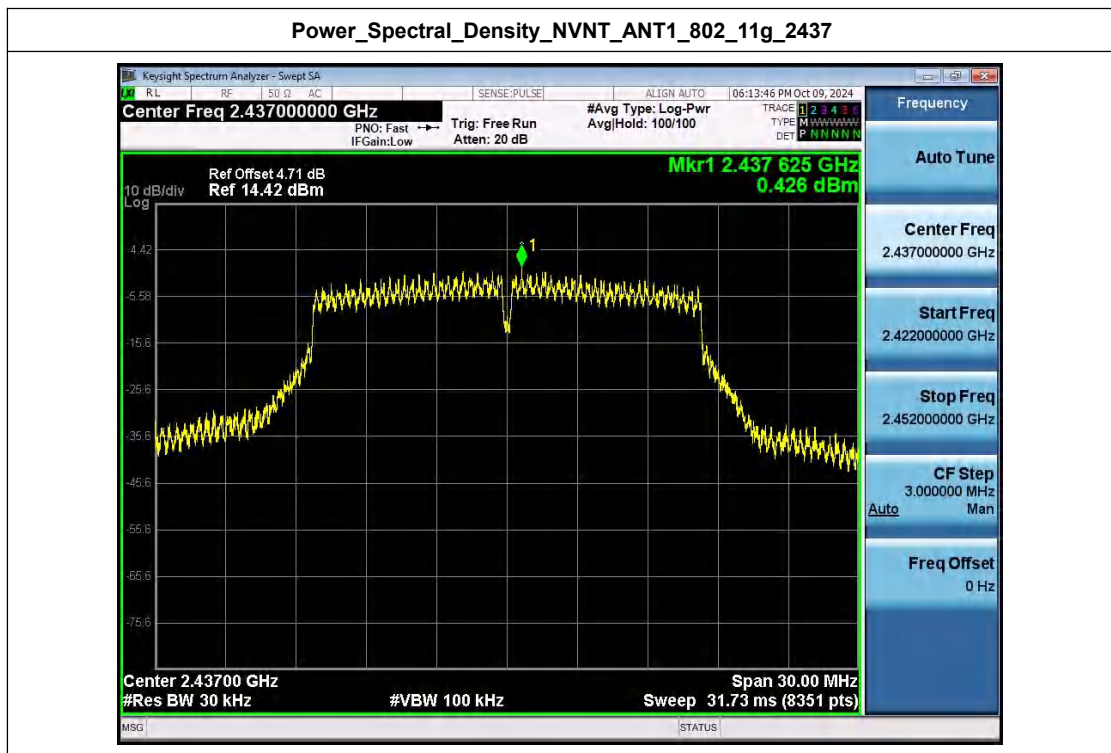


Power_Spectral_Density_NVNT_ANT1_802_11g_2412



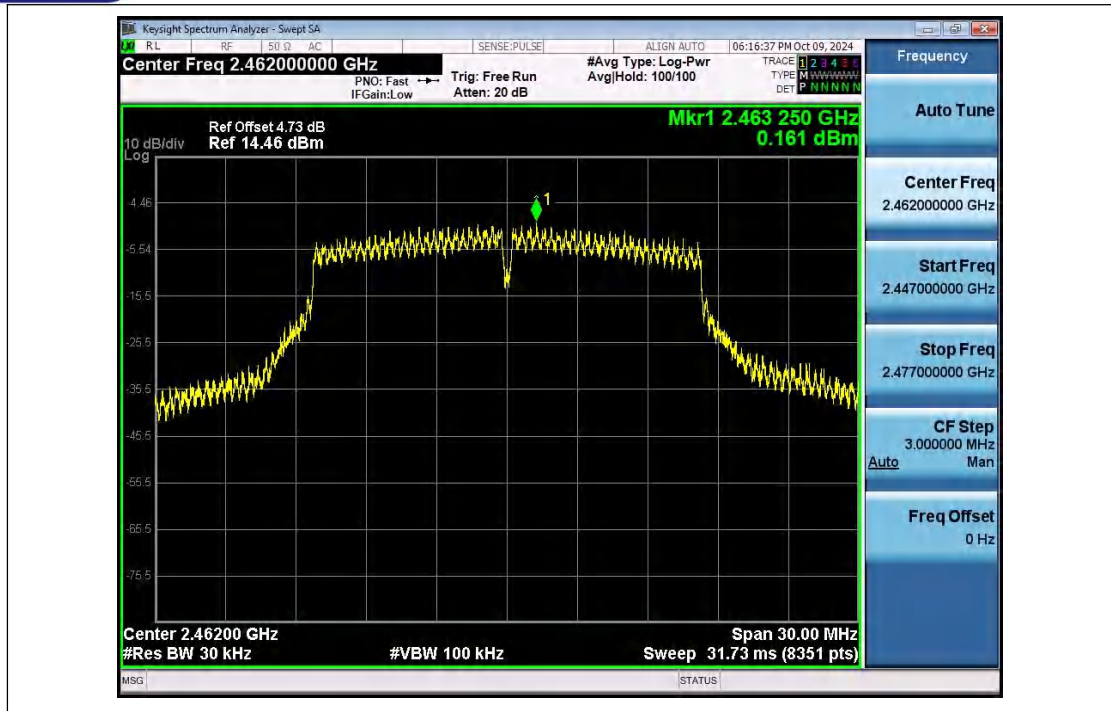


Power_Spectral_Density_NVNT_ANT1_802_11g_2437

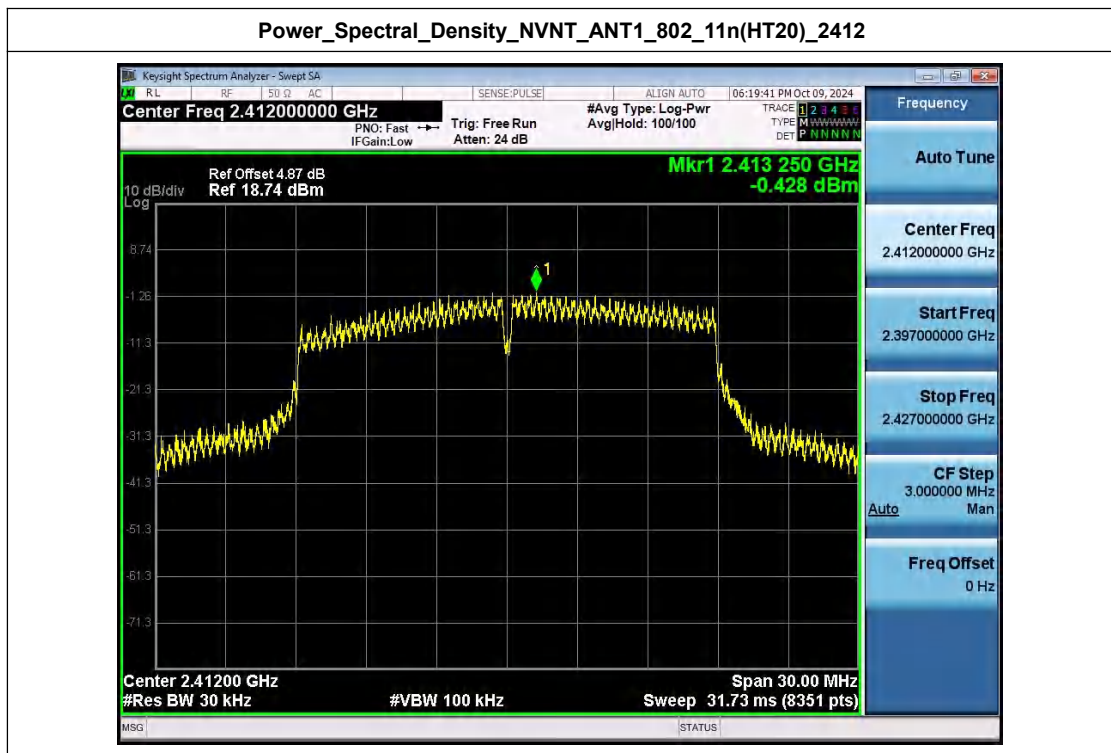


Power_Spectral_Density_NVNT_ANT1_802_11g_2462





Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412

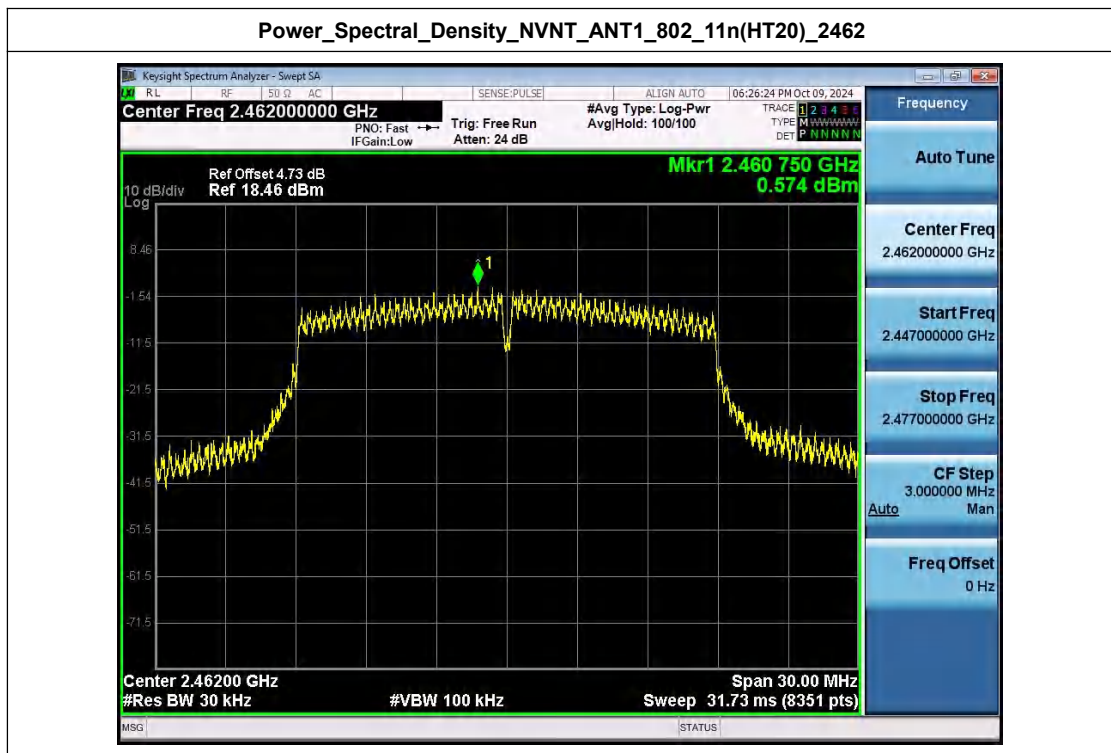


Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437



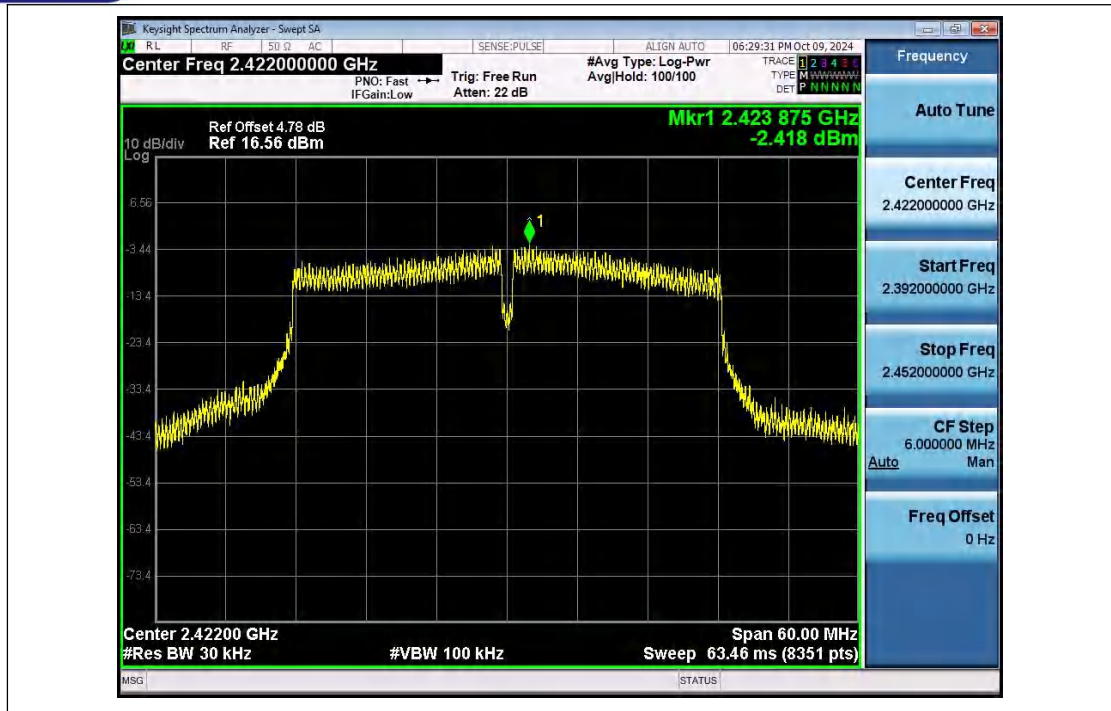


Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2462

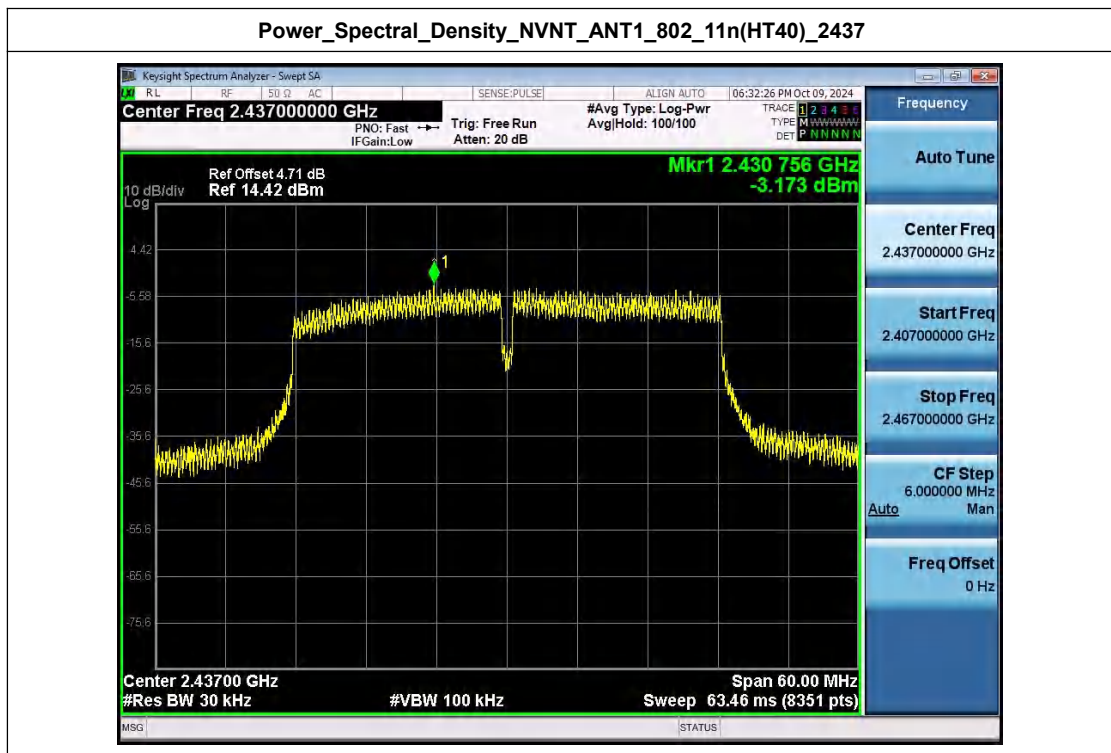


Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2422



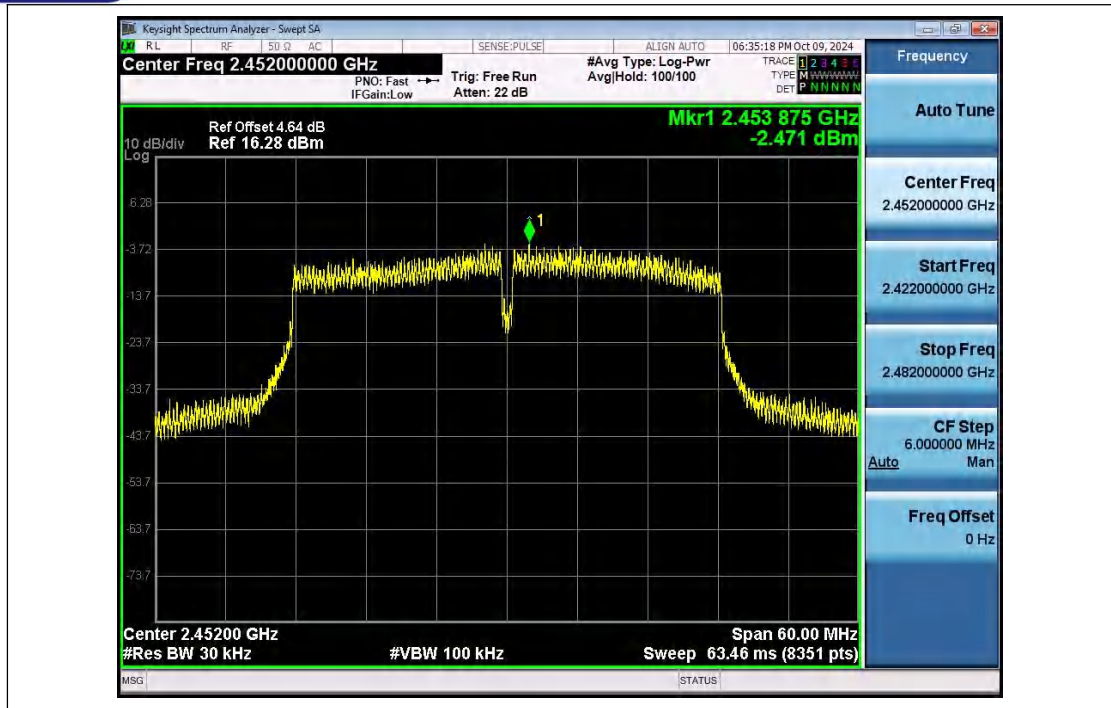


Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2437



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	2398.480	-47.338	-22.603	Pass
NVNT	ANT1	802.11b	2462.00	2485.984	-54.478	-22.214	Pass
NVNT	ANT1	802.11g	2412.00	2399.488	-33.830	-27.045	Pass
NVNT	ANT1	802.11g	2462.00	2484.832	-40.668	-27.615	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2397.472	-34.963	-27.790	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2484.832	-44.110	-28.665	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.760	-34.129	-30.537	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.020	-32.964	-31.730	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412

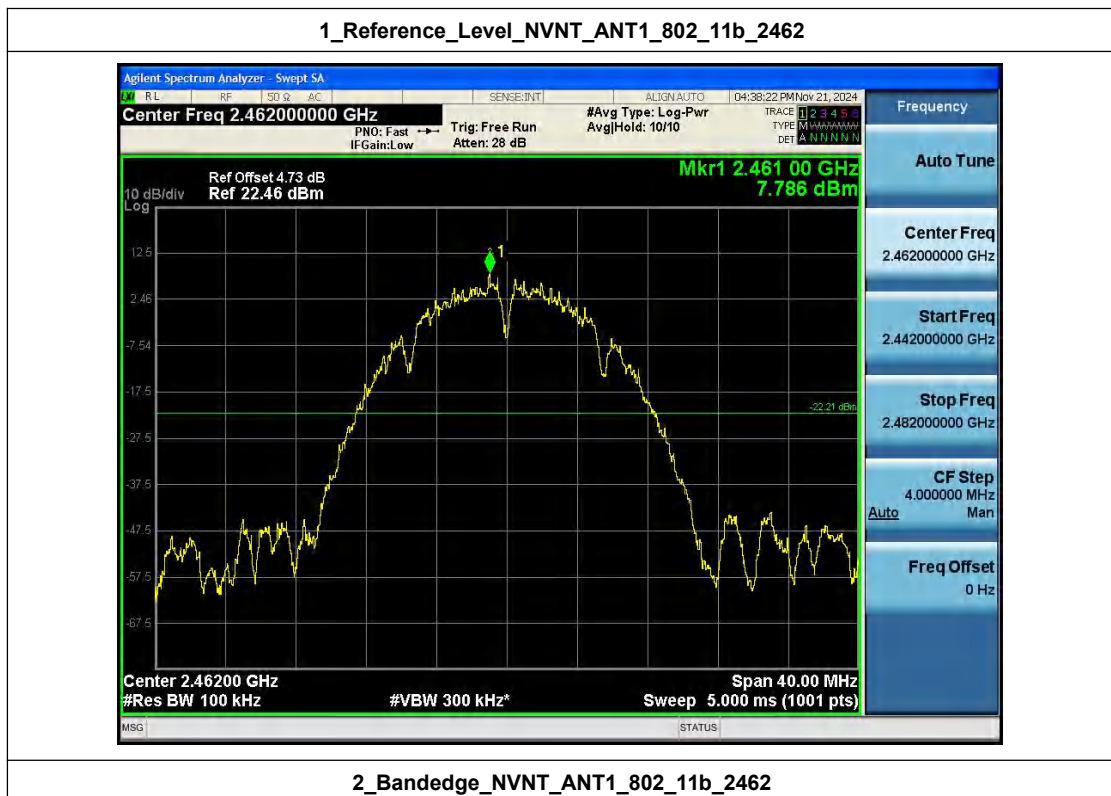


2_Bandedge_NVNT_ANT1_802_11b_2412





1_Reference_Level_NVNT_ANT1_802_11b_2462

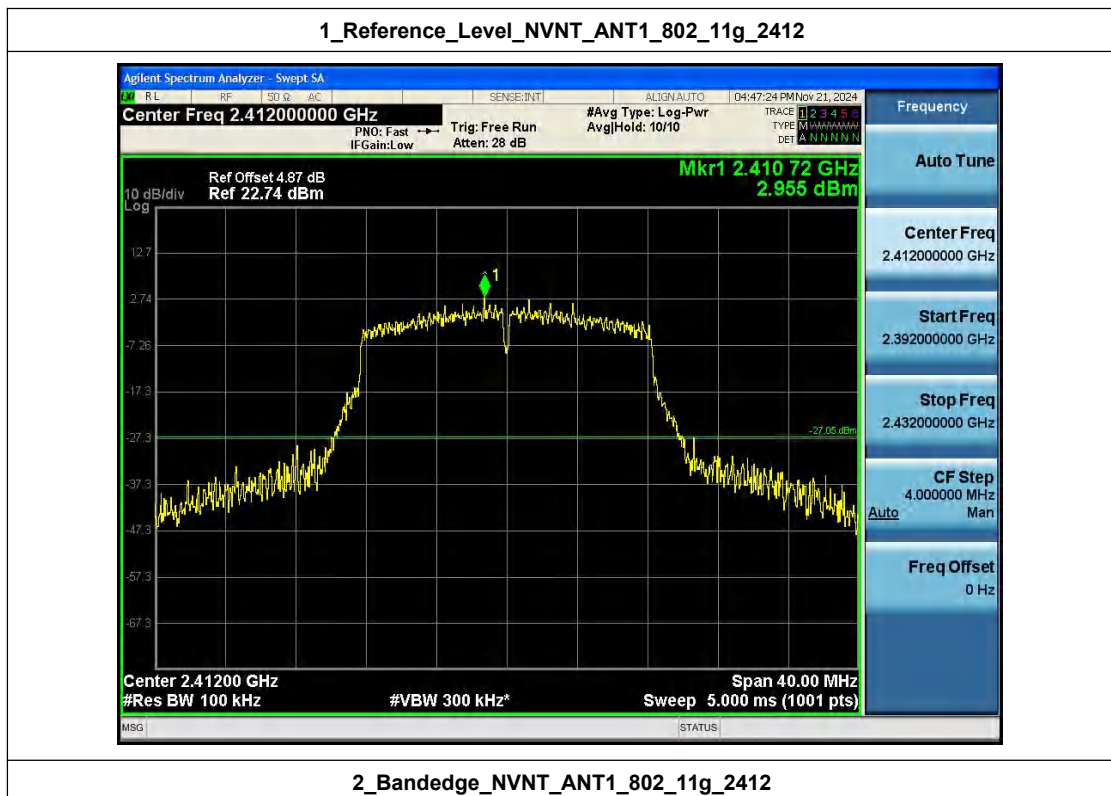


2_Bandedge_NVNT_ANT1_802_11b_2462



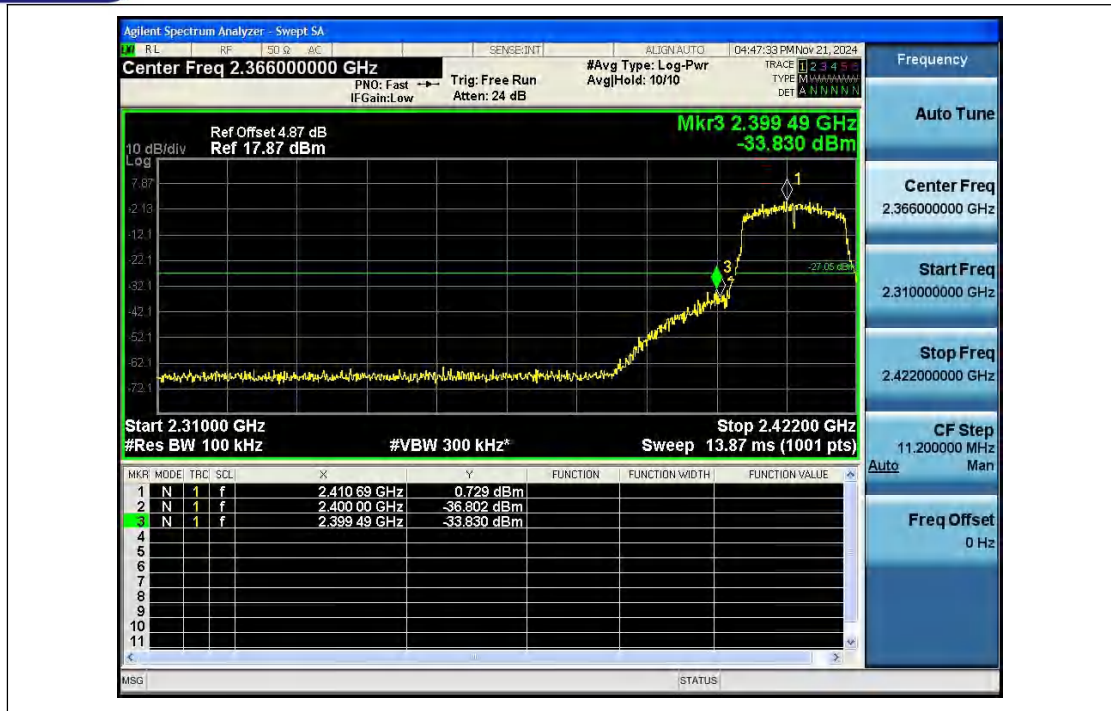


1_Reference_Level_NVNT_ANT1_802_11g_2412

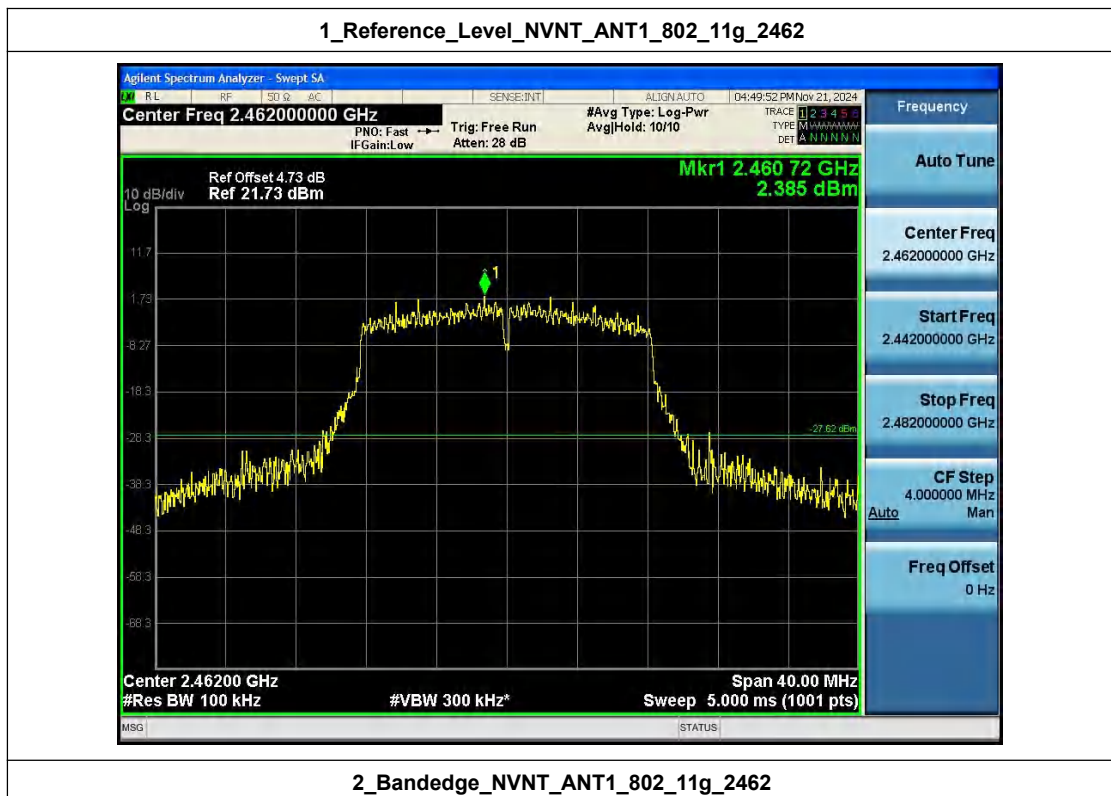


2_Bandedge_NVNT_ANT1_802_11g_2412





1_Reference_Level_NVNT_ANT1_802_11g_2462

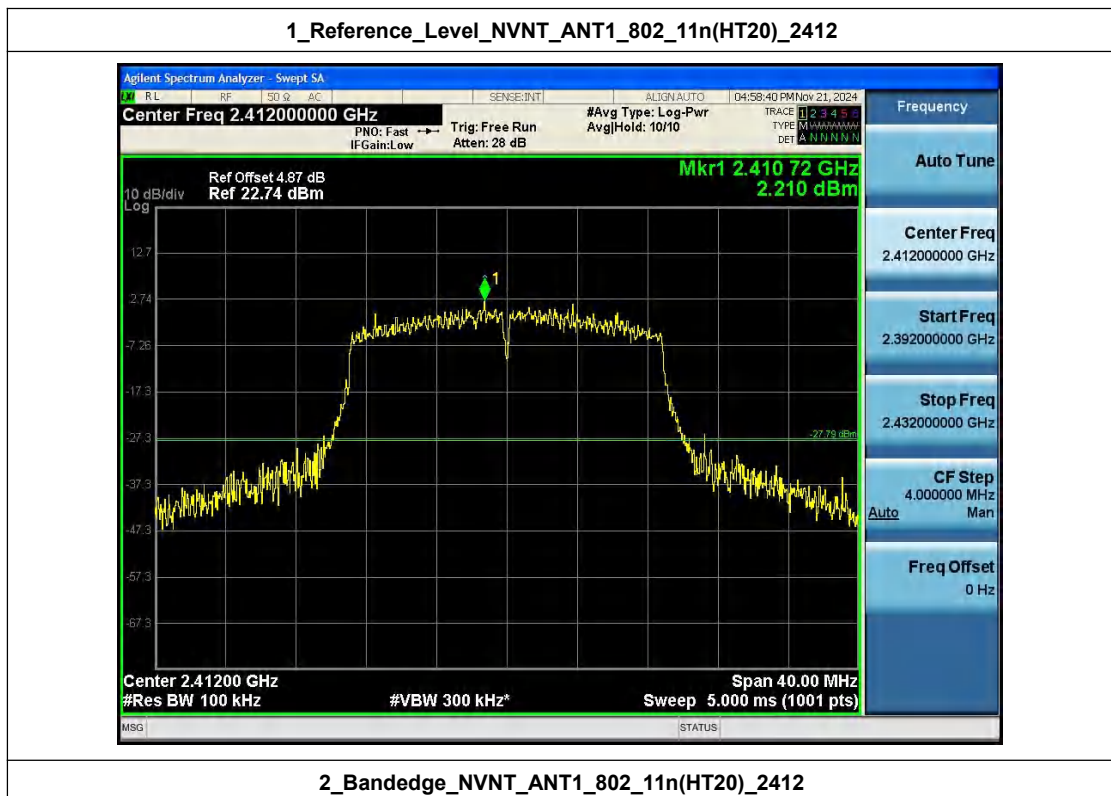


2_Bandedge_NVNT_ANT1_802_11g_2462



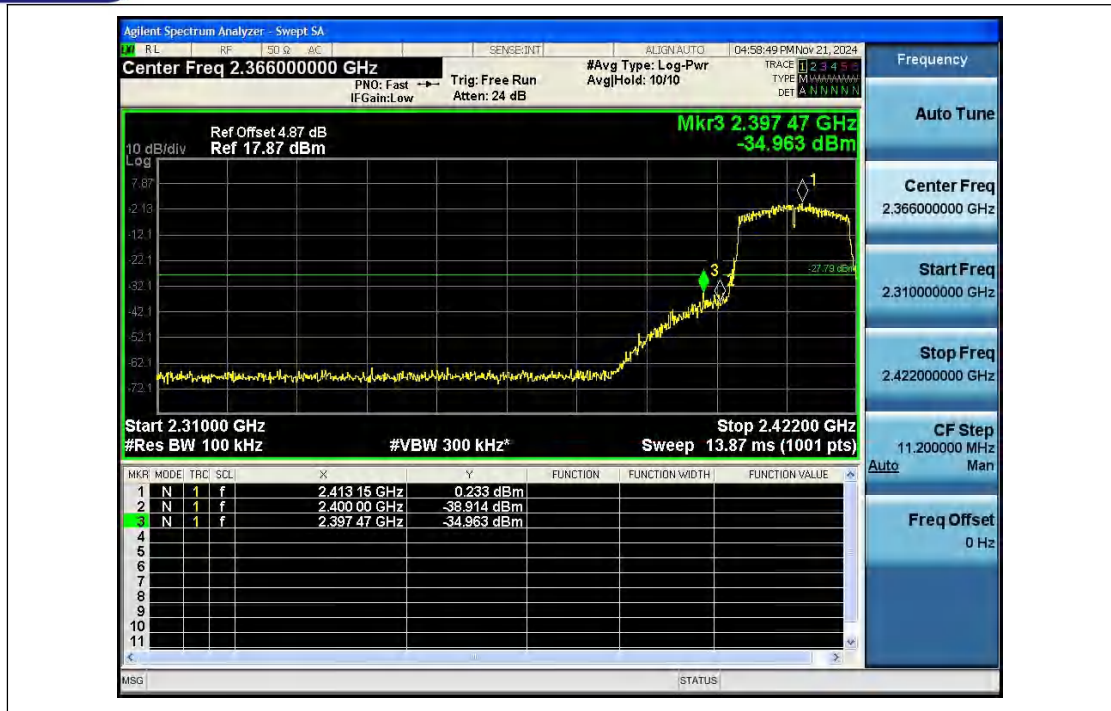


1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412

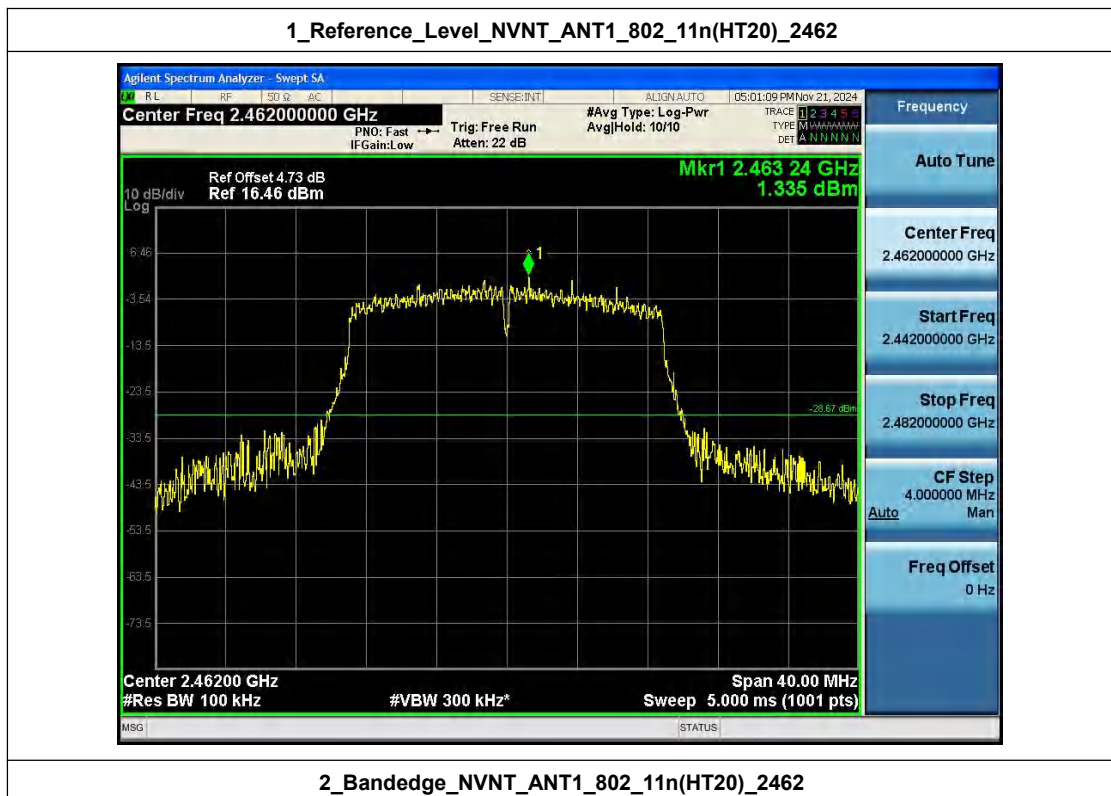


2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412





1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462

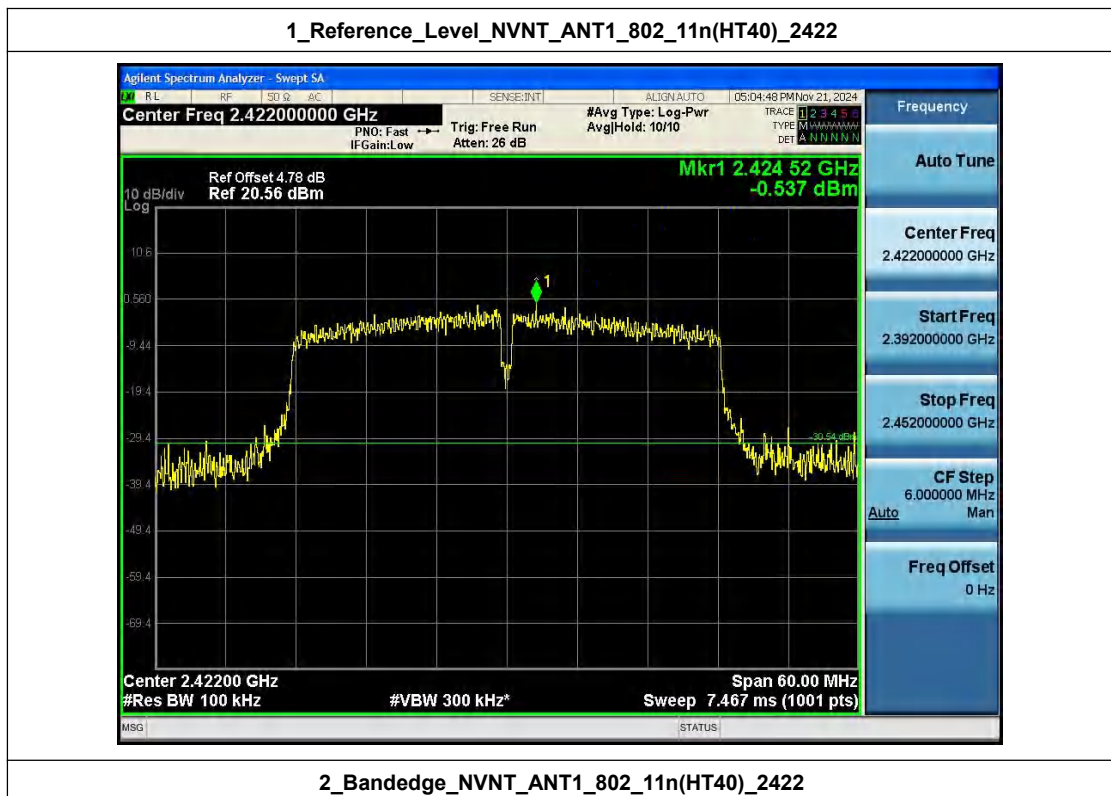


2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462





1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422

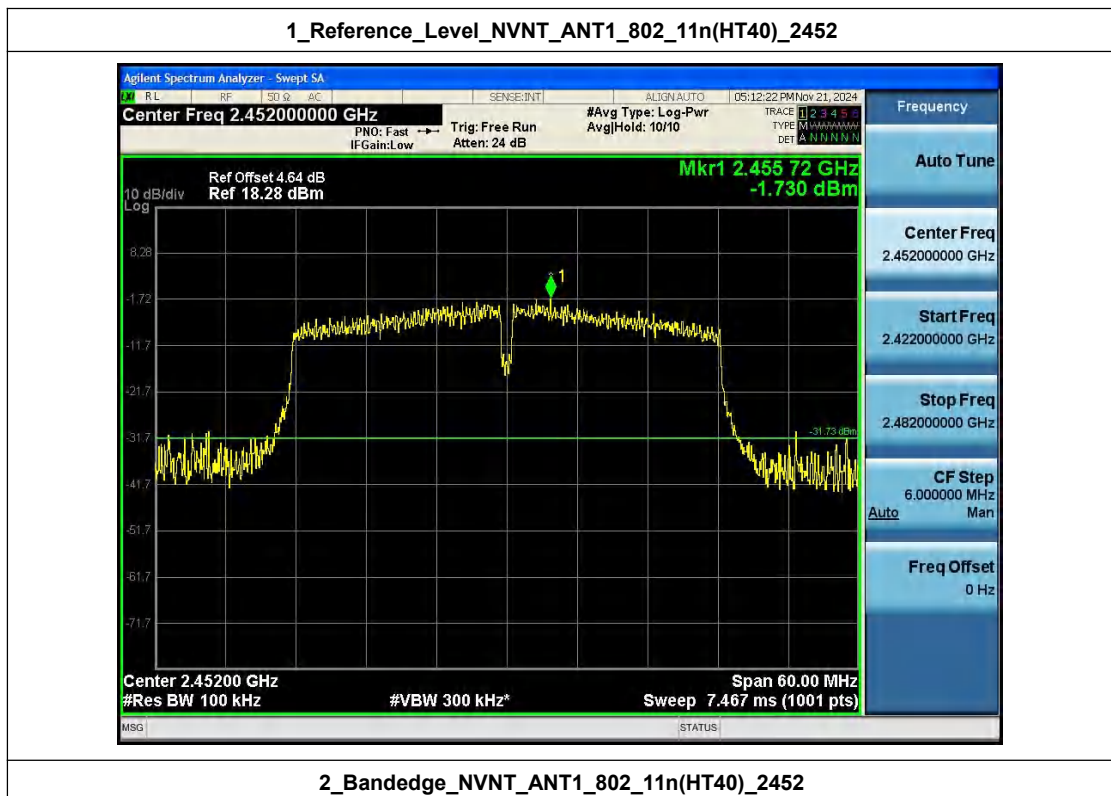


2_Bandedge_NVNT_ANT1_802_11n(HT40)_2422





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	24850.180	-59.750	-23.446	Pass
NVNT	ANT1	802.11b	2437.00	24870.156	-60.118	-22.117	Pass
NVNT	ANT1	802.11b	2462.00	24852.677	-55.893	-22.570	Pass
NVNT	ANT1	802.11g	2412.00	24810.228	-64.355	-28.075	Pass
NVNT	ANT1	802.11g	2437.00	24727.827	-56.370	-27.400	Pass
NVNT	ANT1	802.11g	2462.00	24847.683	-62.131	-27.237	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24817.719	-64.193	-28.256	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24850.180	-60.272	-28.188	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24795.246	-62.156	-28.751	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24827.707	-60.033	-27.513	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24825.210	-68.459	-30.651	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	24852.677	-65.063	-31.297	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412

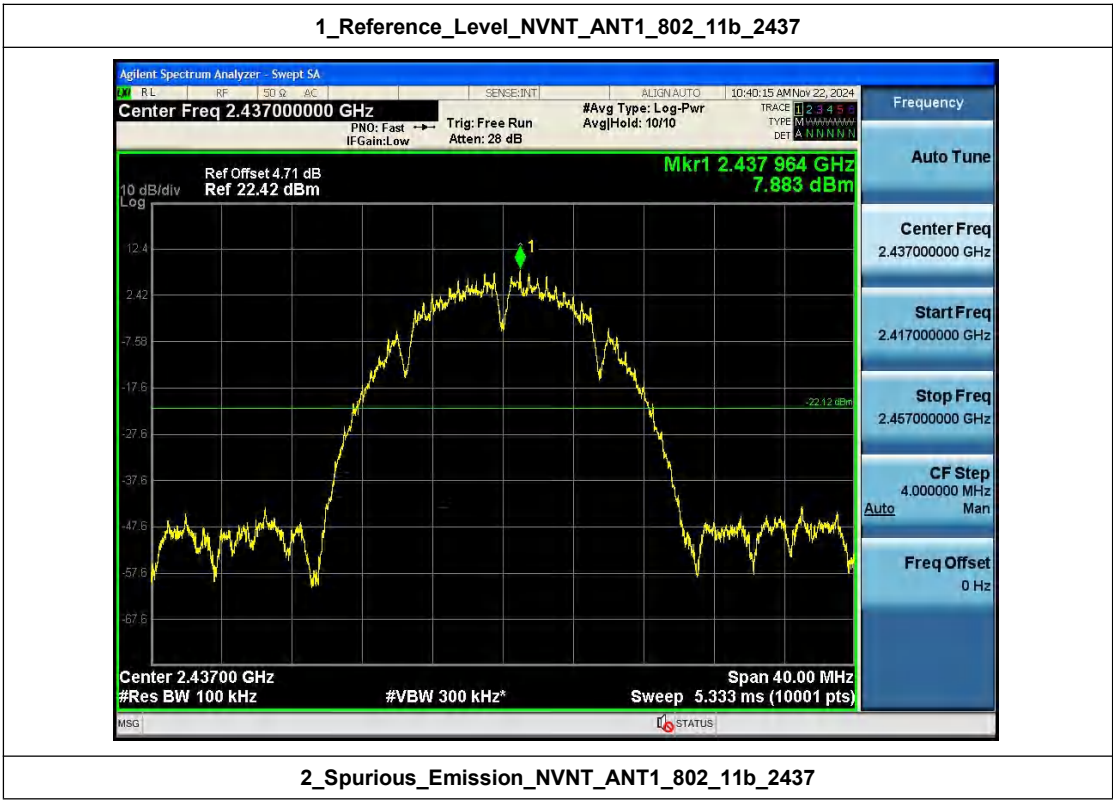


2_Spurious_Emission_NVNT_ANT1_802_11b_2412





1_Reference_Level_NVNT_ANT1_802_11b_2437

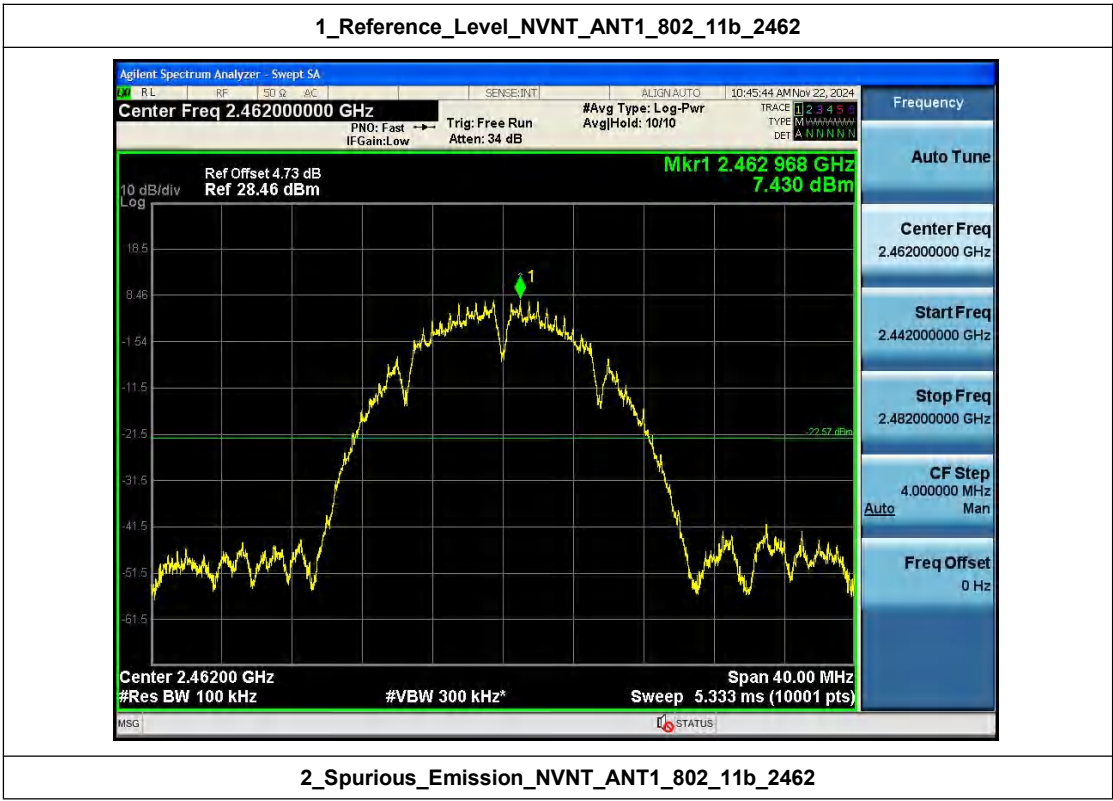


2_Spurious_Emission_NVNT_ANT1_802_11b_2437





1_Reference_Level_NVNT_ANT1_802_11b_2462

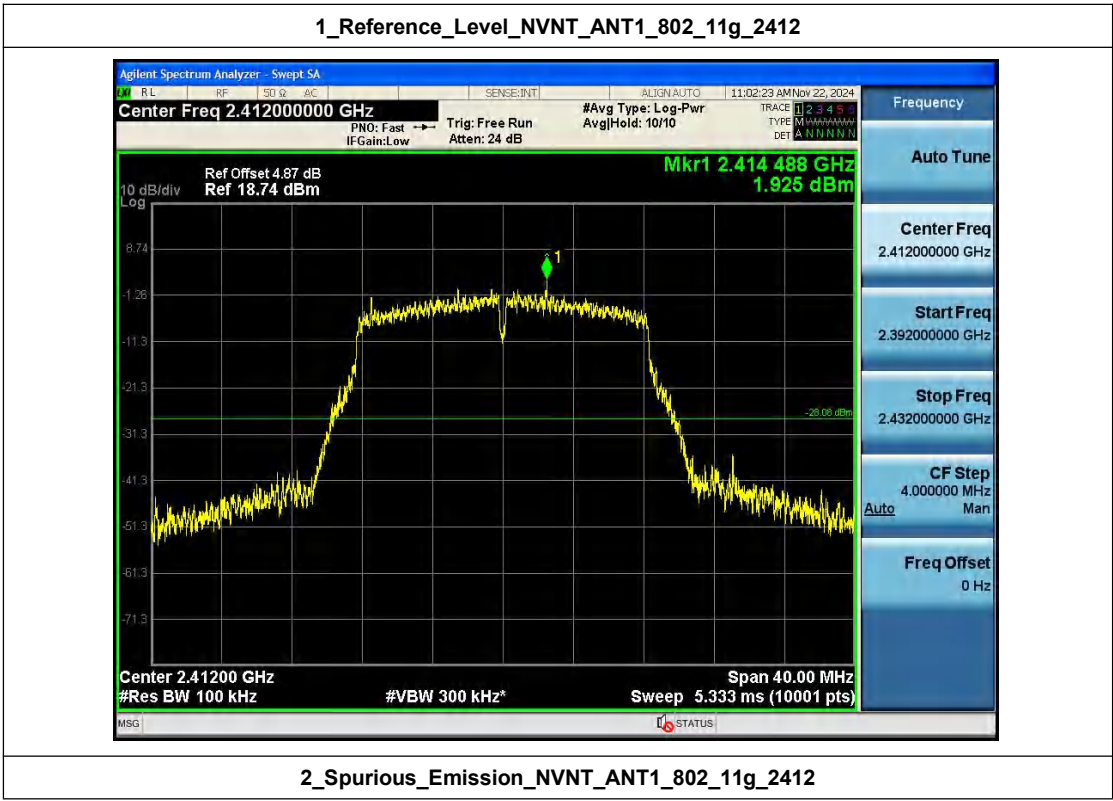


2_Spurious_Emission_NVNT_ANT1_802_11b_2462





1_Reference_Level_NVNT_ANT1_802_11g_2412

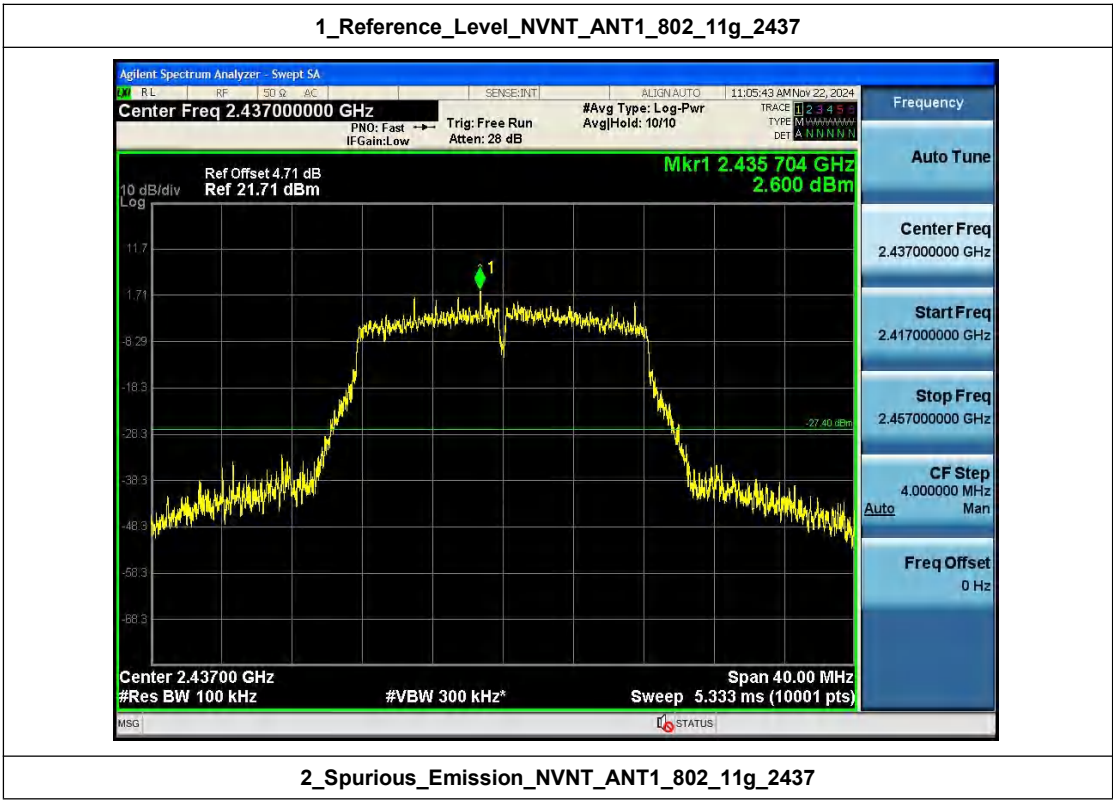


2_Spurious_Emission_NVNT_ANT1_802_11g_2412





1_Reference_Level_NVNT_ANT1_802_11g_2437

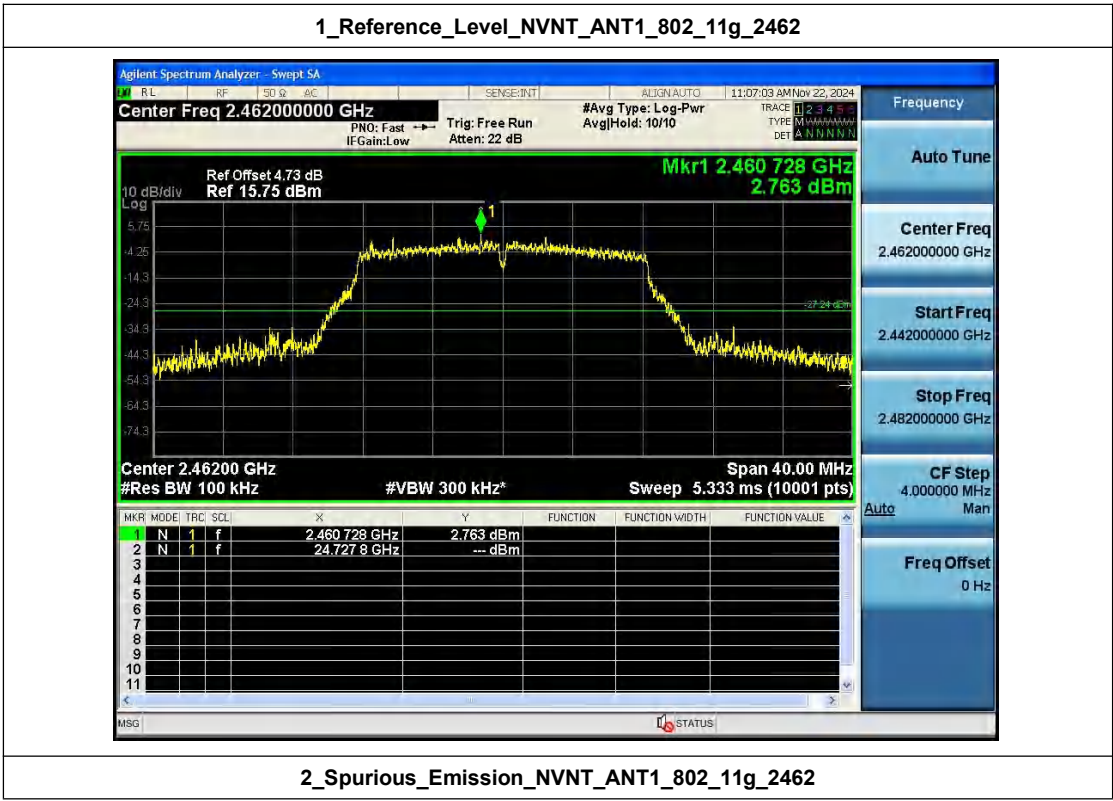


2_Spurious_Emission_NVNT_ANT1_802_11g_2437





1_Reference_Level_NVNT_ANT1_802_11g_2462

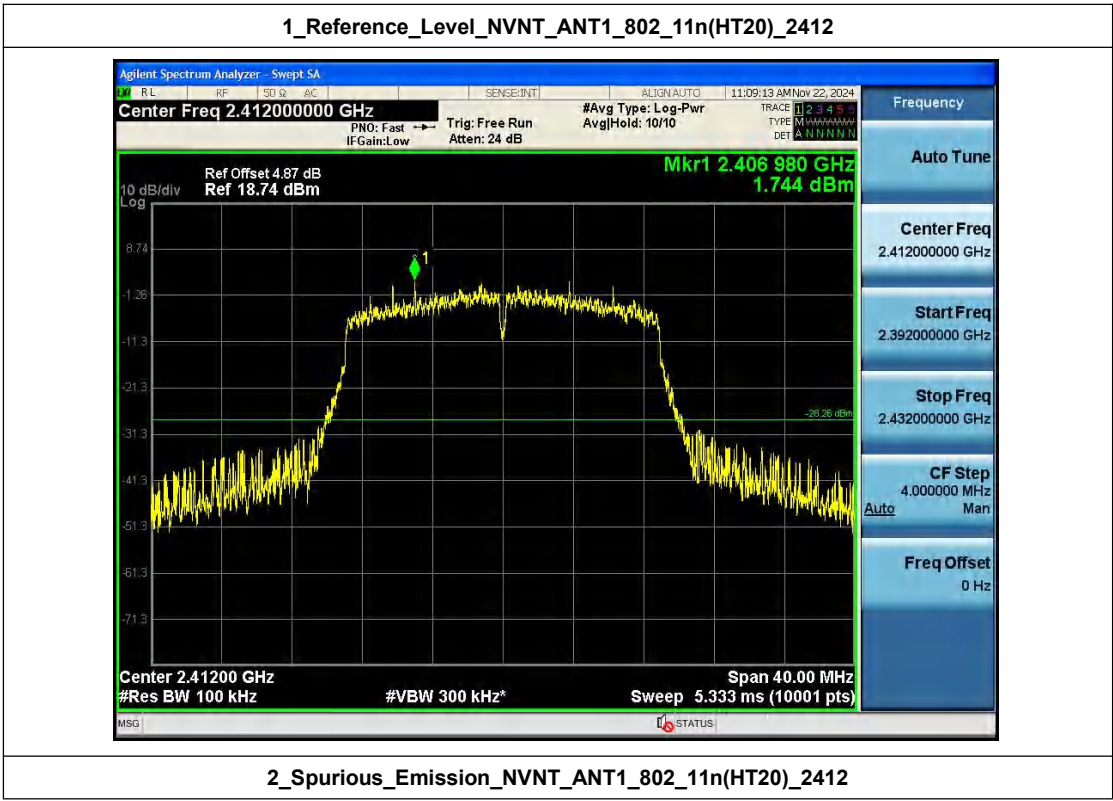


2_Spurious_Emission_NVNT_ANT1_802_11g_2462





1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412

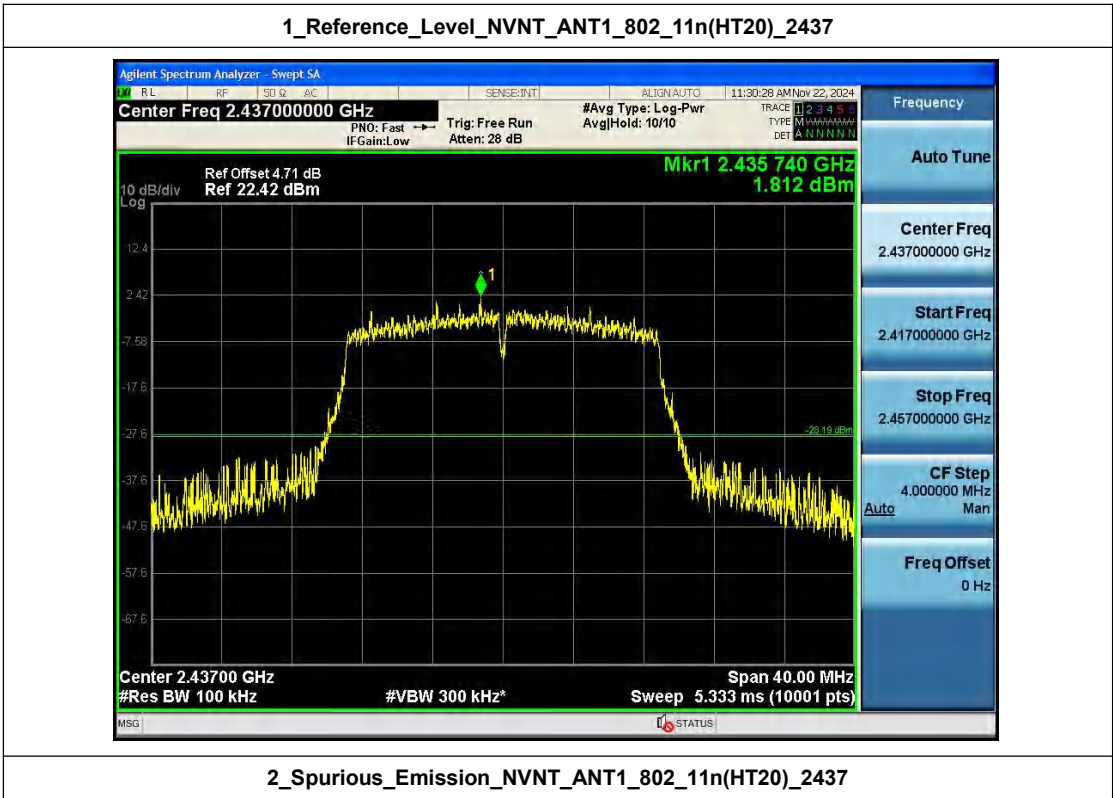


2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2412





1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2437

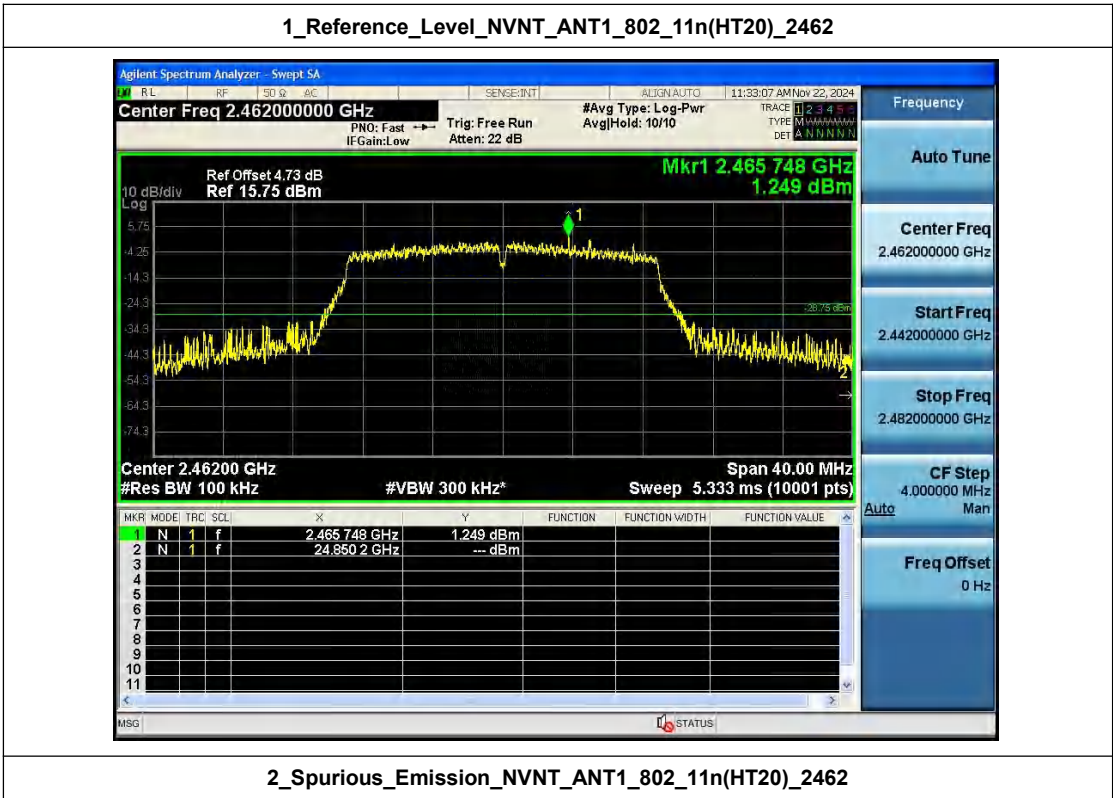


2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2437



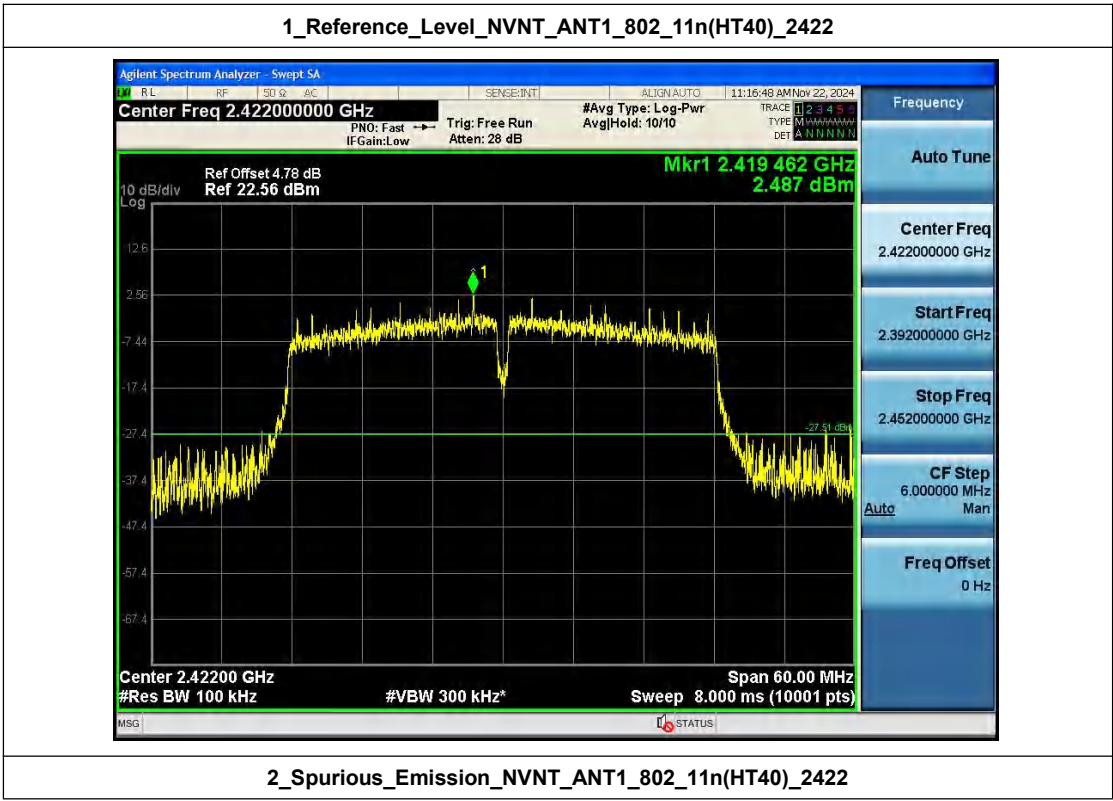


1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



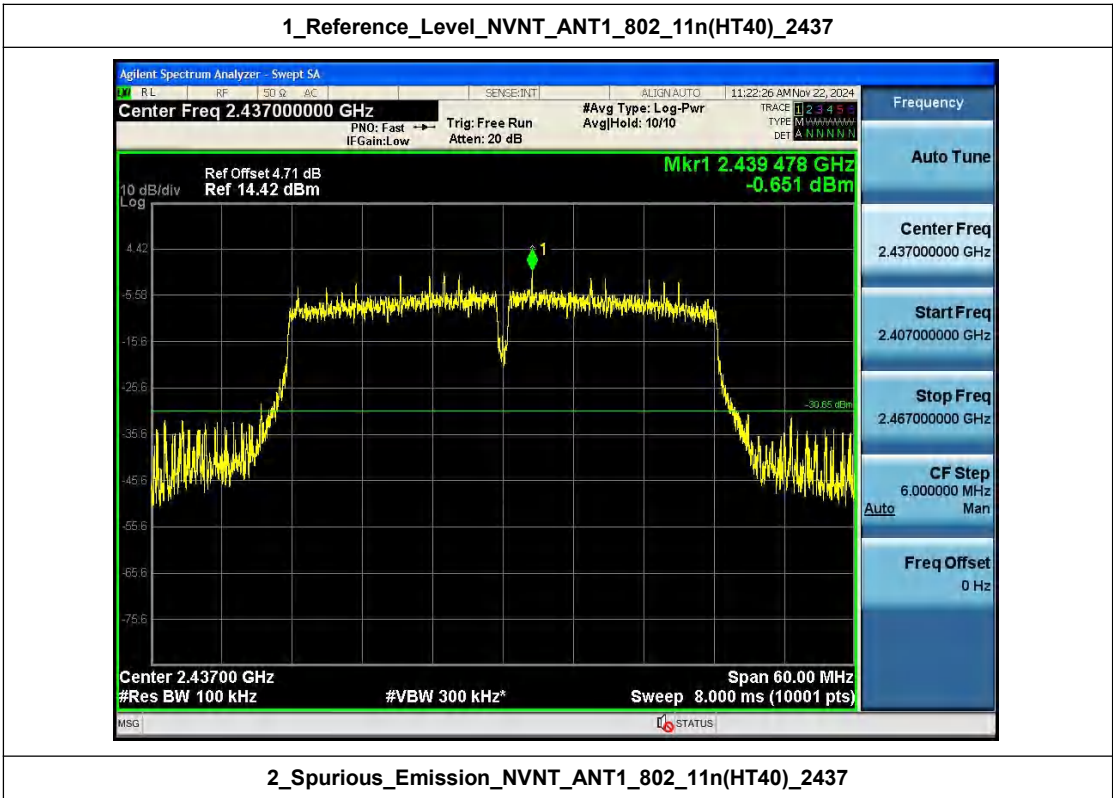
2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2462







1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2437

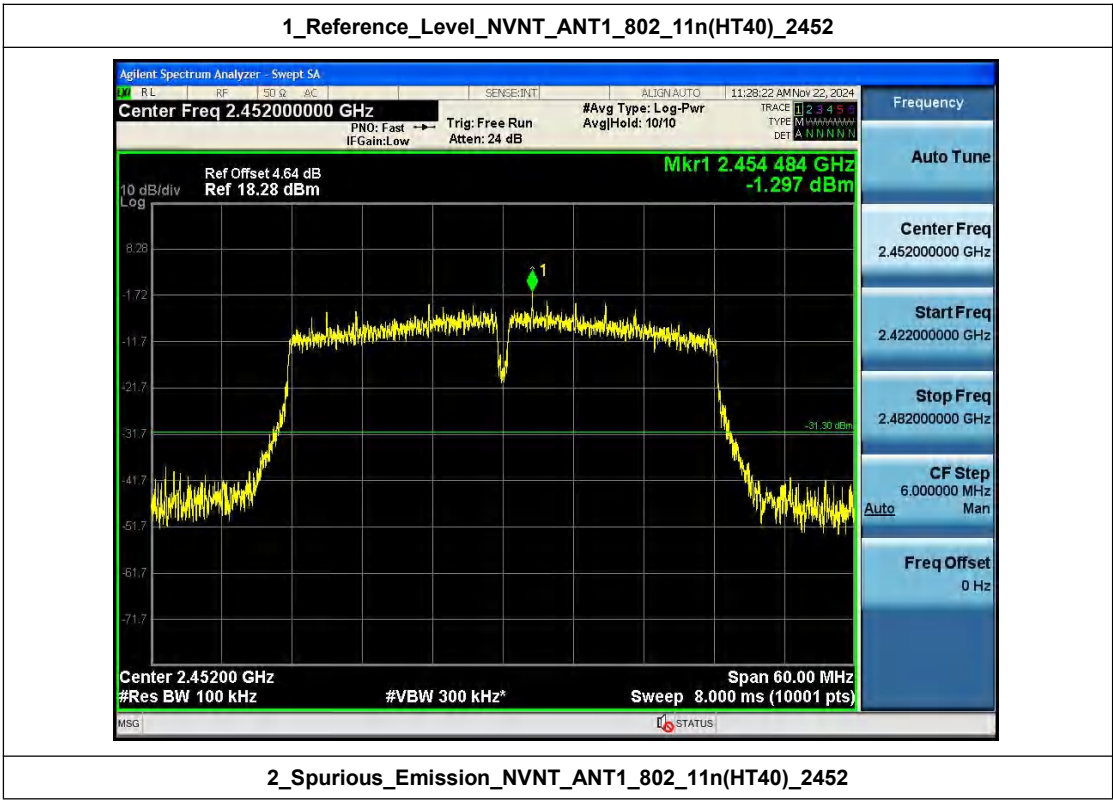


2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2437





1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452



2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2452





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