

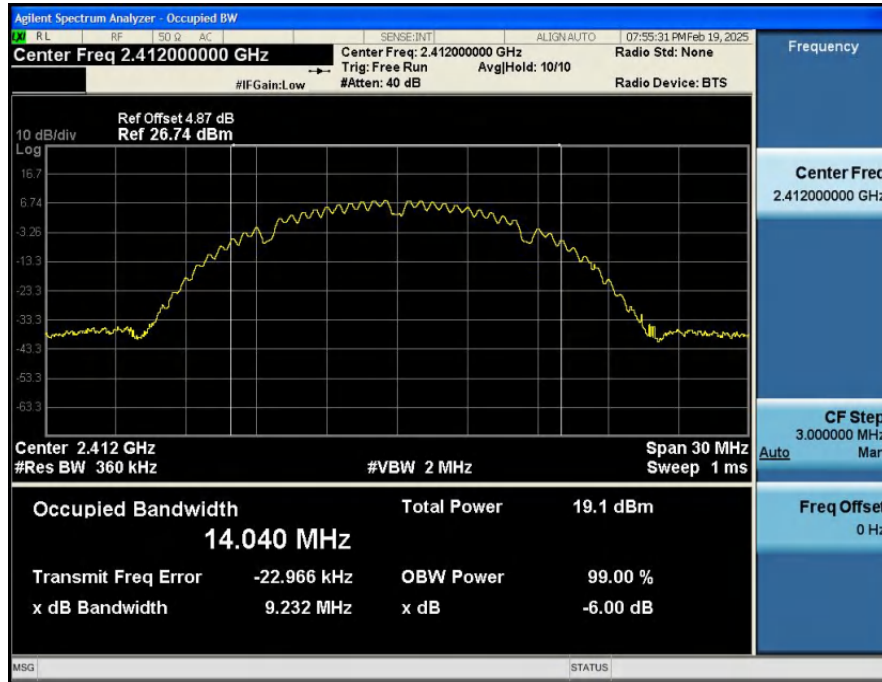
Appendix Test Data

Report No.:	1812C50010012502	Test Sample No.:	1-2-2
Start Test Date:	2025.2.17	Finish Test Date:	2025.2.19
Test Engineer:	<i>Liangfei Yang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	21.3°C	Relative Humidity:	40%
Pressure:	101kPa		

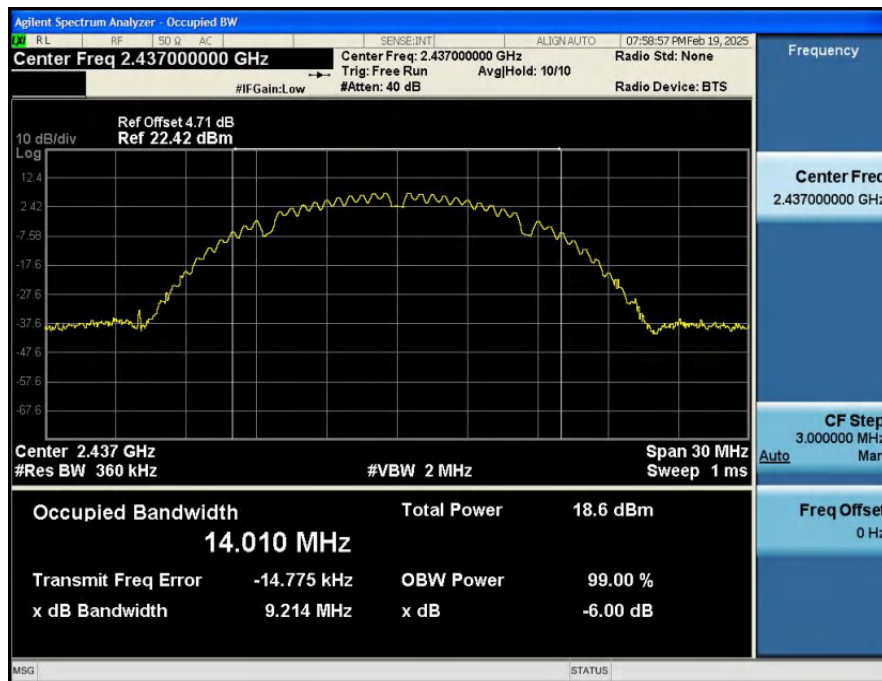
Appendix A: -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.23	500	Pass
NVNT	ANT1	802.11b	2437.00	9.21	500	Pass
NVNT	ANT1	802.11b	2462.00	9.22	500	Pass
NVNT	ANT1	802.11g	2412.00	16.38	500	Pass
NVNT	ANT1	802.11g	2437.00	16.42	500	Pass
NVNT	ANT1	802.11g	2462.00	16.45	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.63	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.69	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.59	500	Pass

-6dB_Bandwidth_NVNT_ANT1_802_11b_2412



-6dB_Bandwidth_NVNT_ANT1_802_11b_2437

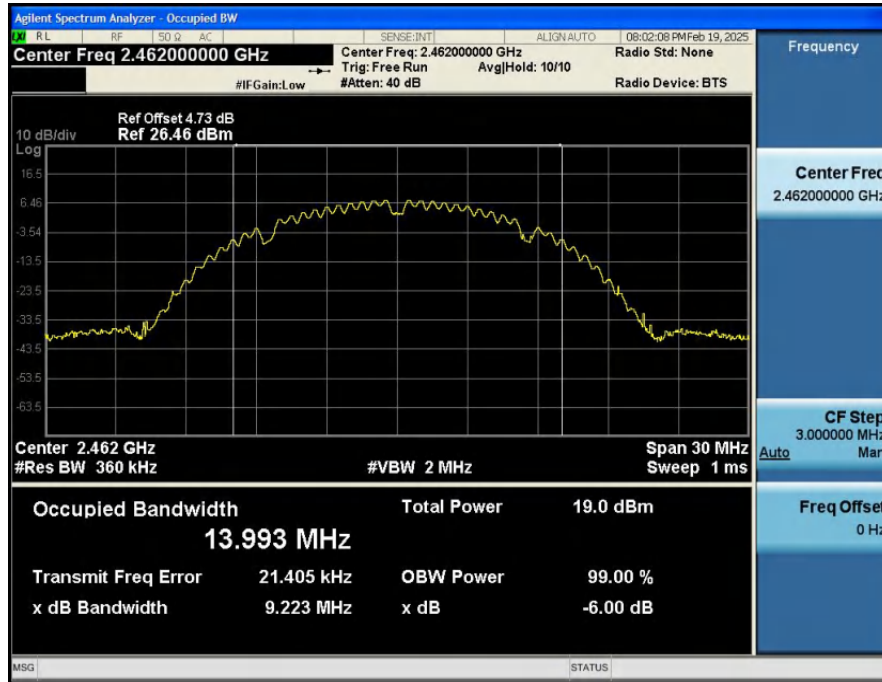


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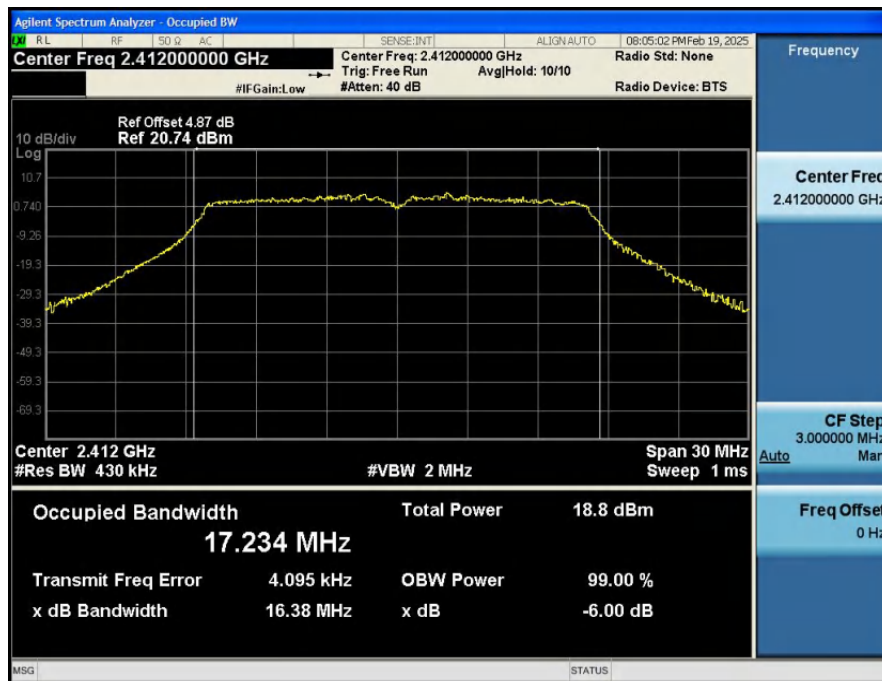
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park,
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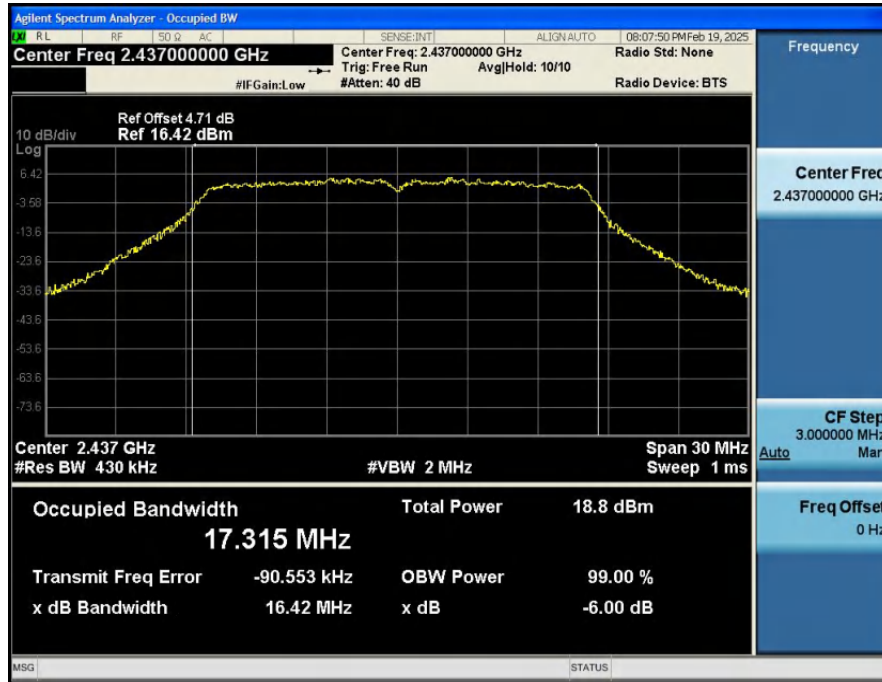
-6dB_Bandwidth_NVNT_ANT1_802_11b_2462



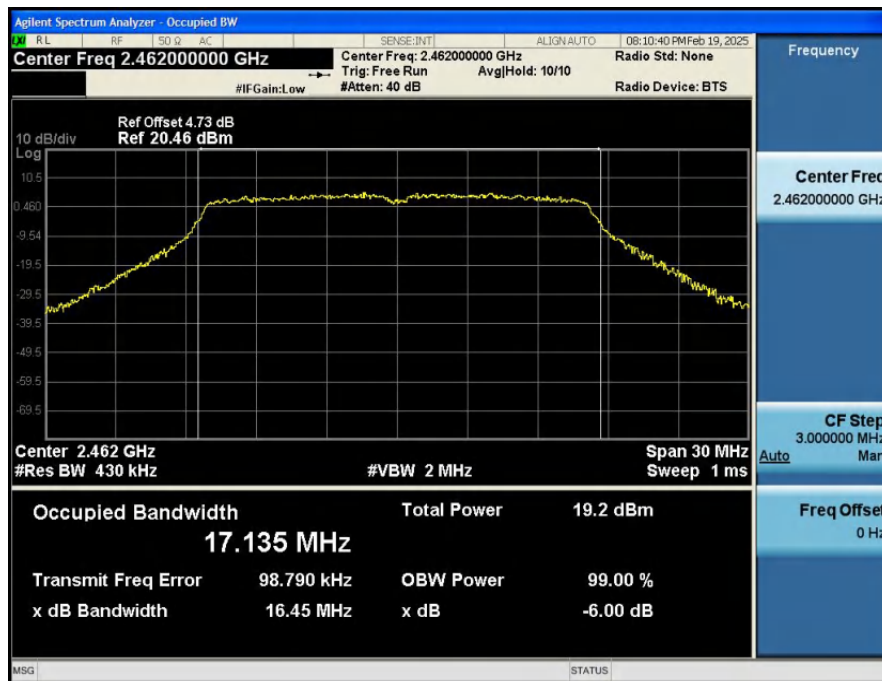
-6dB_Bandwidth_NVNT_ANT1_802_11g_2412



-6dB_Bandwidth_NVNT_ANT1_802_11g_2437



-6dB_Bandwidth_NVNT_ANT1_802_11g_2462

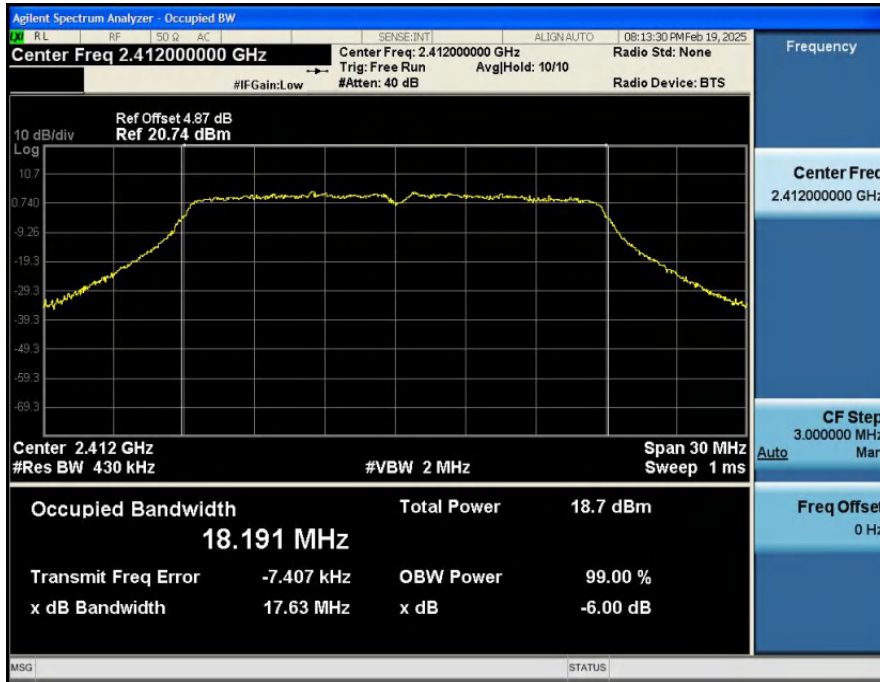


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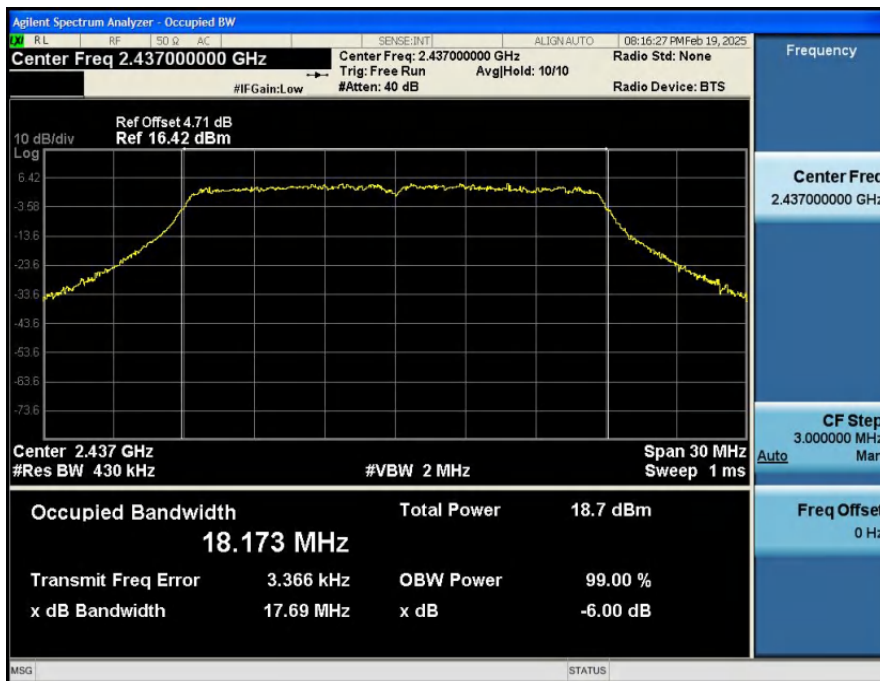
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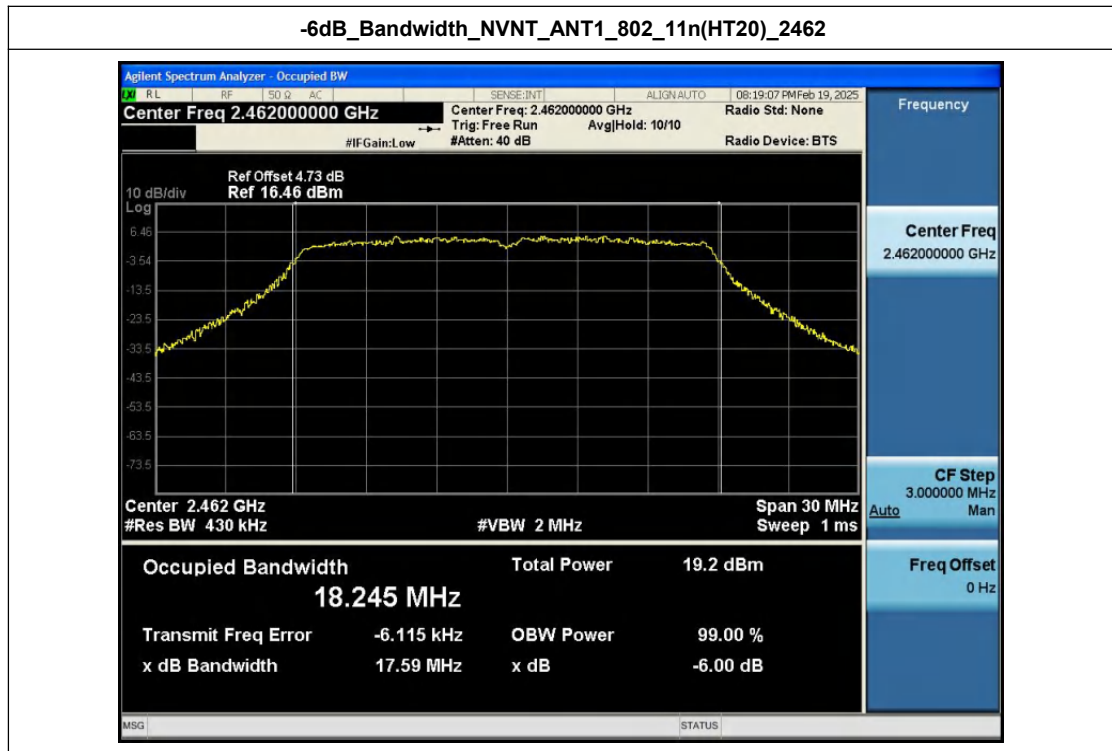
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-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437





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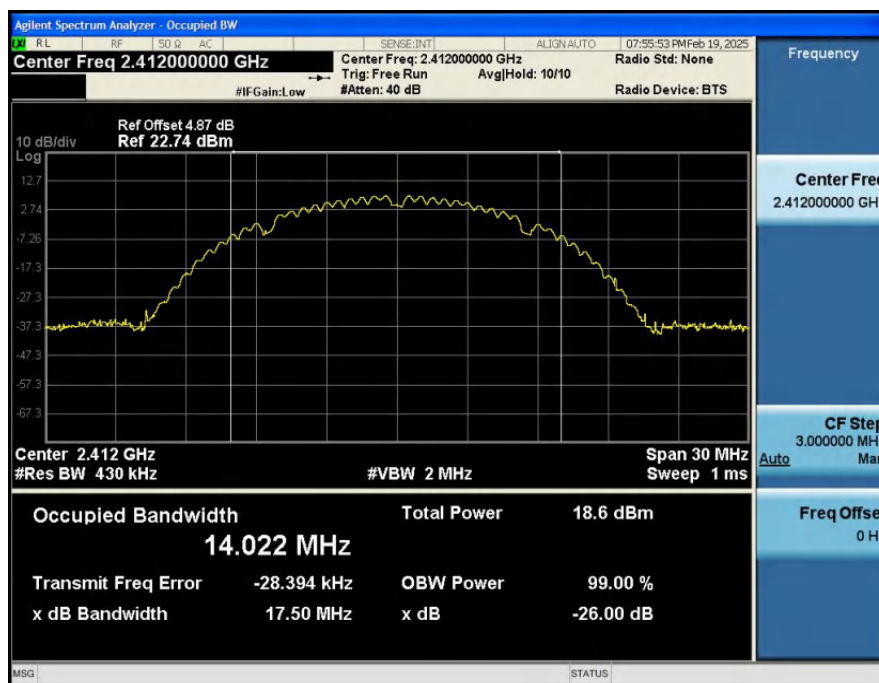


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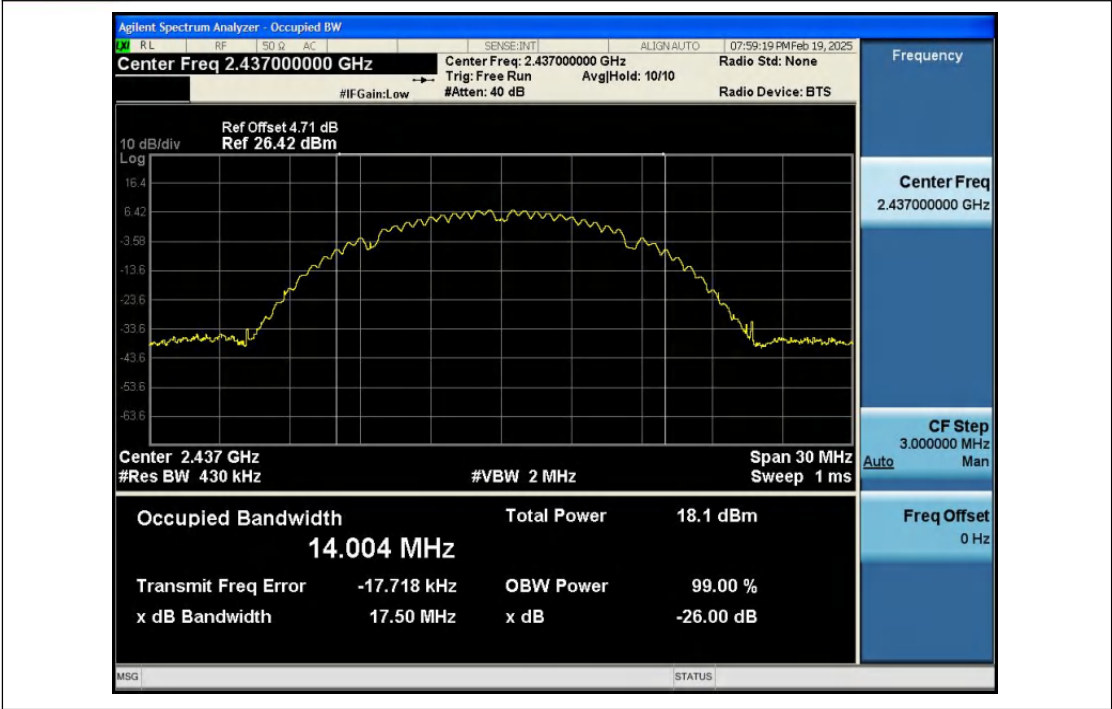
Appendix B: 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	14.022
NVNT	ANT1	802.11b	2437.00	14.004
NVNT	ANT1	802.11b	2462.00	13.983
NVNT	ANT1	802.11g	2412.00	17.486
NVNT	ANT1	802.11g	2437.00	17.553
NVNT	ANT1	802.11g	2462.00	17.378
NVNT	ANT1	802.11n(HT20)	2412.00	18.387
NVNT	ANT1	802.11n(HT20)	2437.00	18.351
NVNT	ANT1	802.11n(HT20)	2462.00	18.417

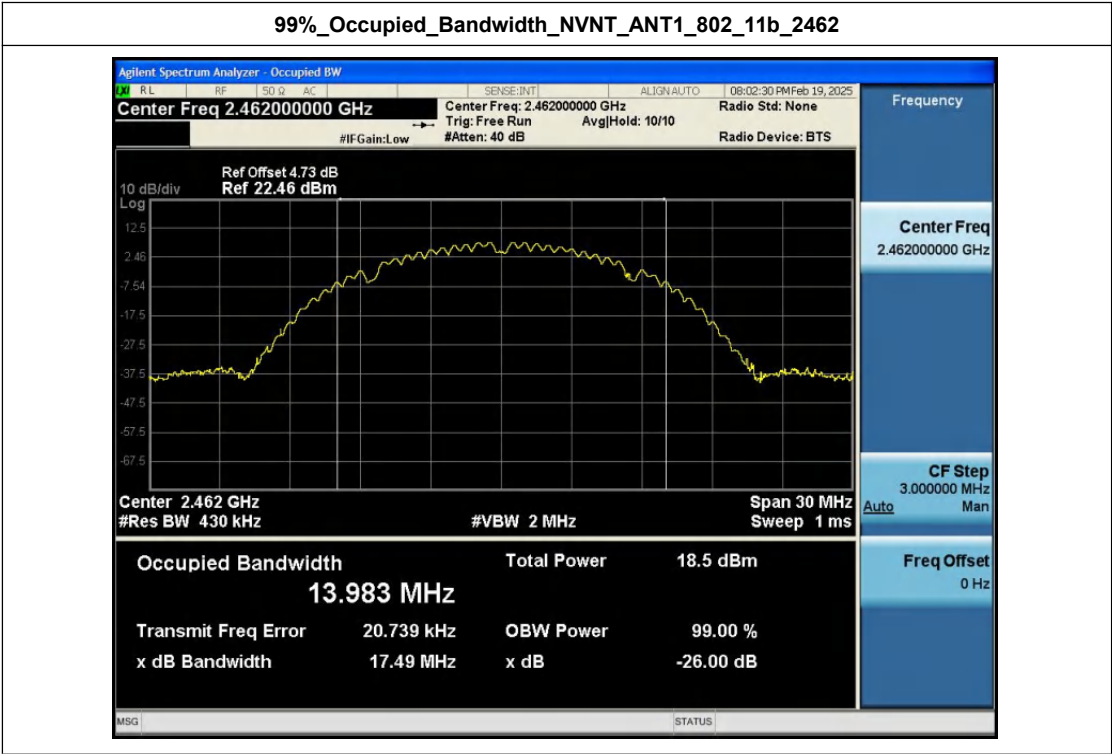
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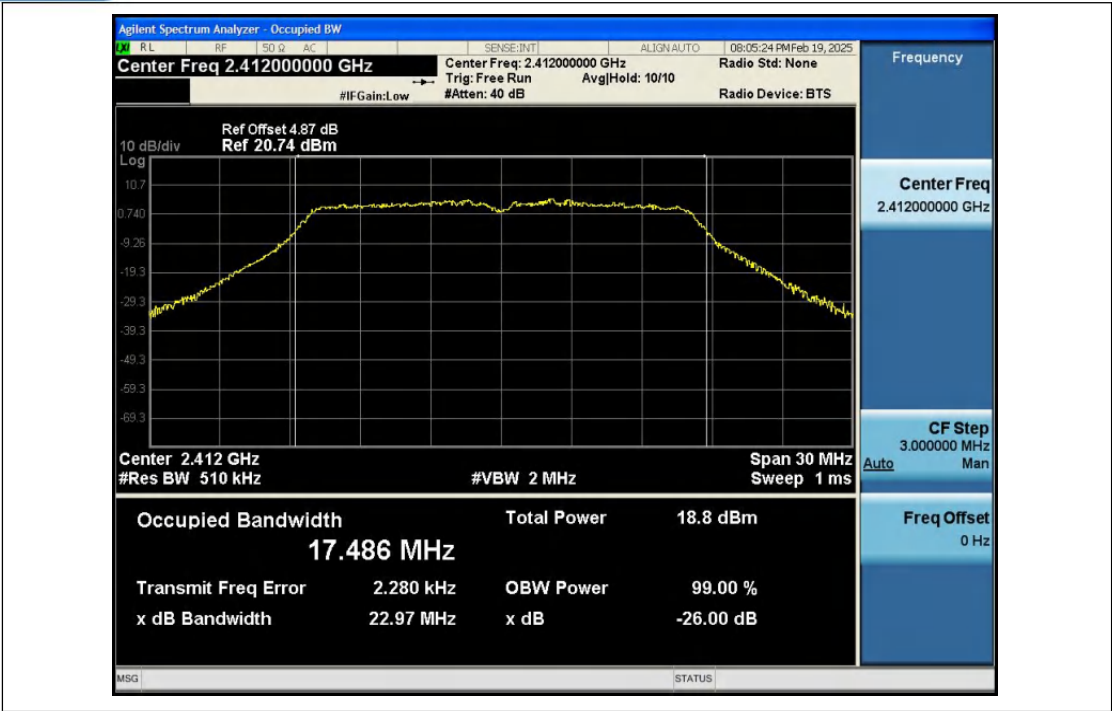
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2437



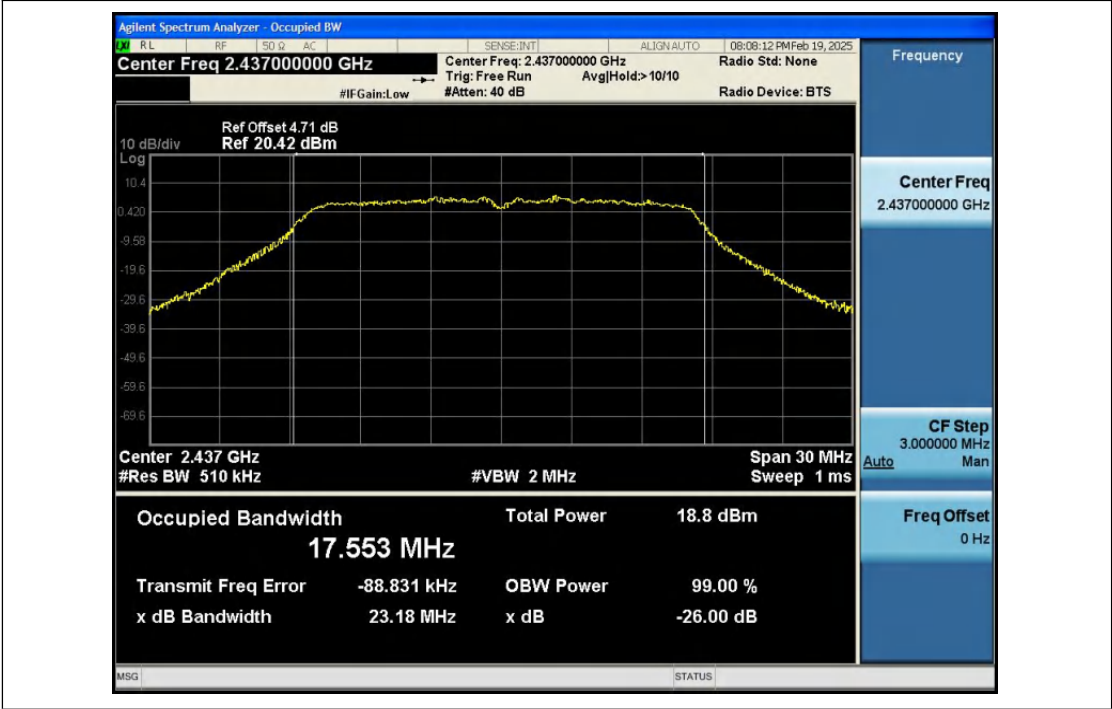
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2462



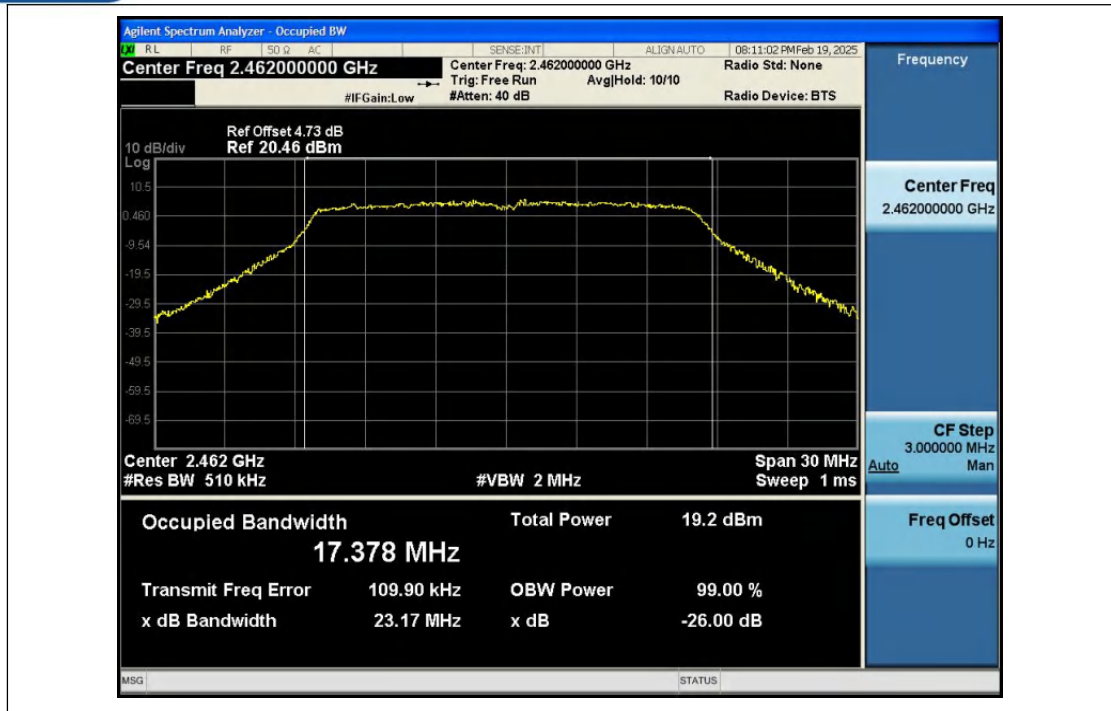
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2412



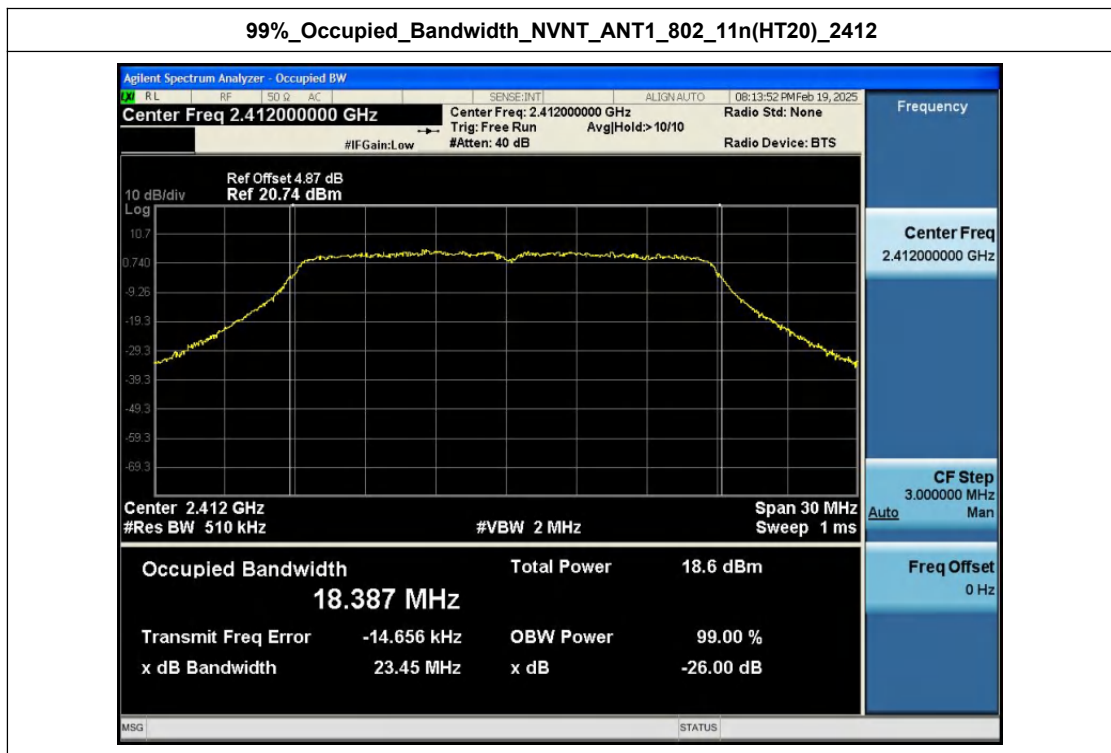
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2437



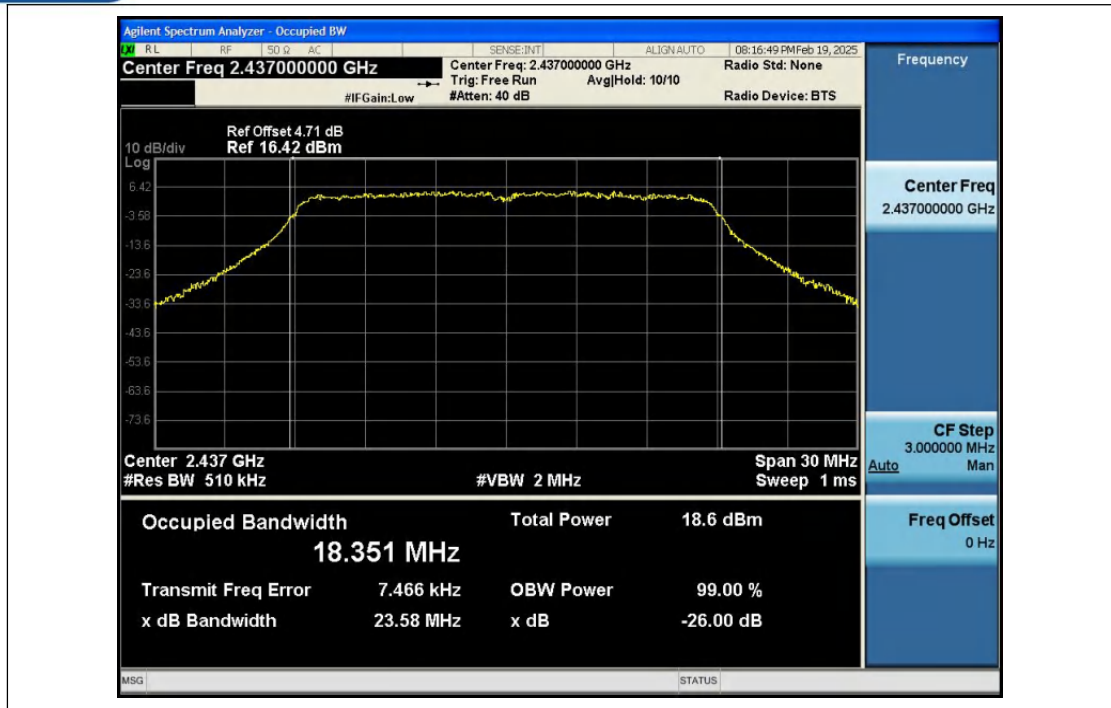
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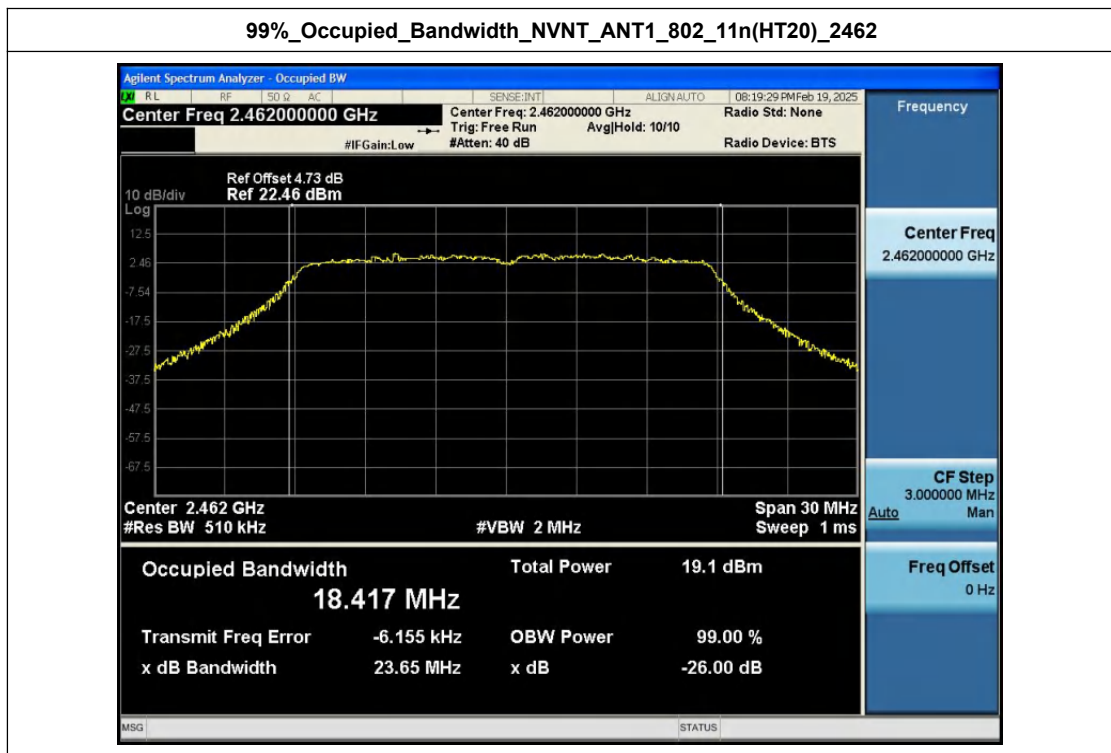
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



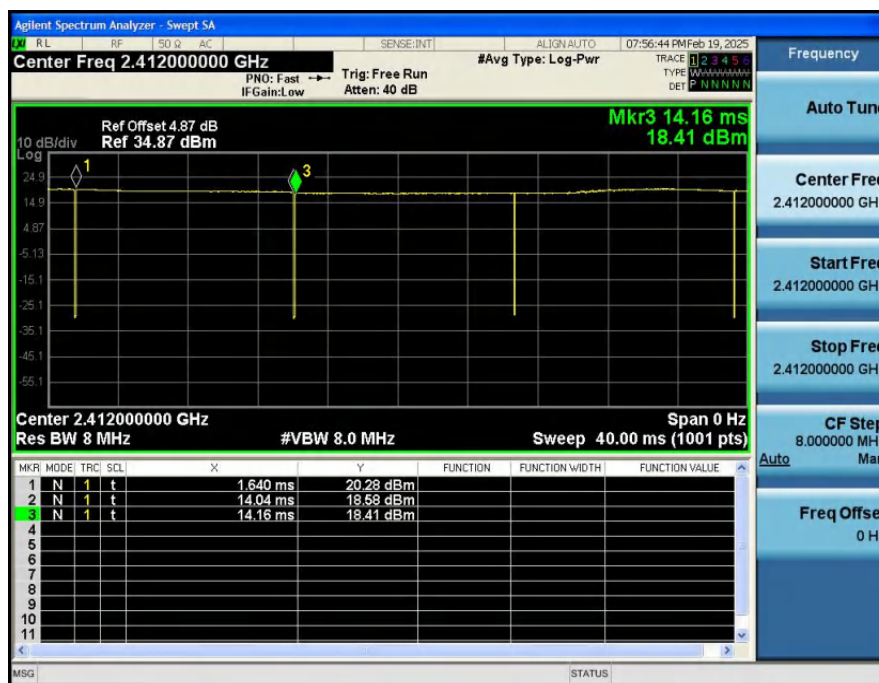
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



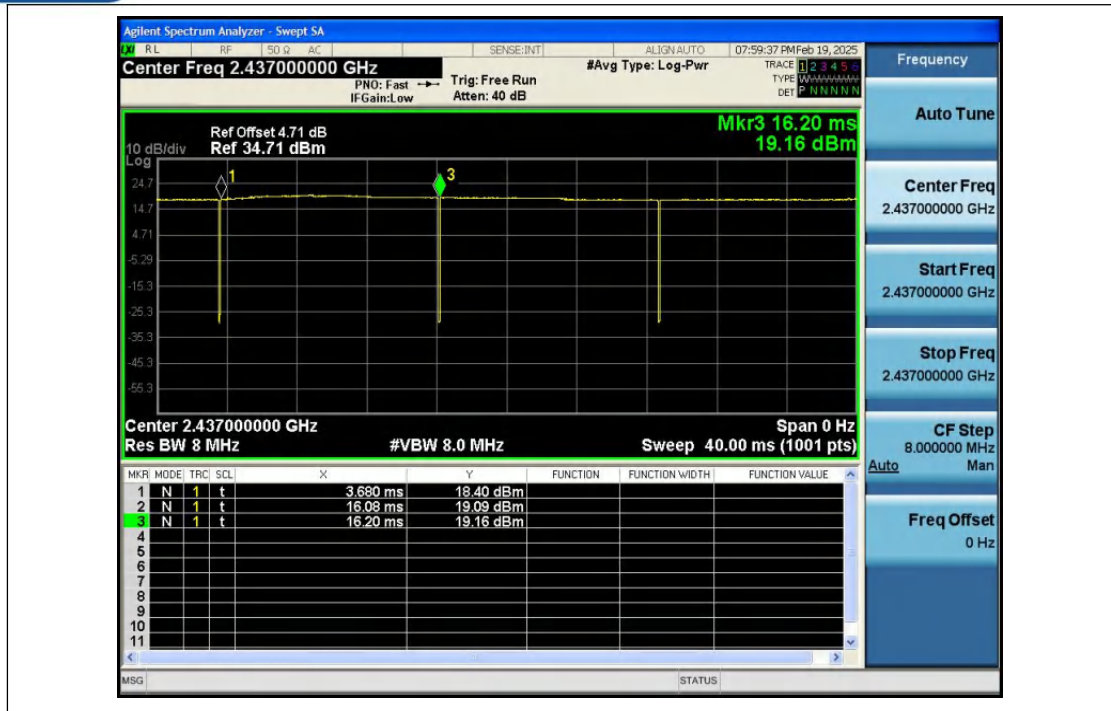
Appendix C: Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.36	0.00
NVNT	ANT1	802.11b	2437.00	99.36	0.00
NVNT	ANT1	802.11b	2462.00	99.36	0.00
NVNT	ANT1	802.11g	2412.00	94.55	0.24
NVNT	ANT1	802.11g	2437.00	94.55	0.24
NVNT	ANT1	802.11g	2462.00	95.41	0.20
NVNT	ANT1	802.11n(HT20)	2412.00	94.17	0.26
NVNT	ANT1	802.11n(HT20)	2437.00	94.17	0.26
NVNT	ANT1	802.11n(HT20)	2462.00	94.17	0.26

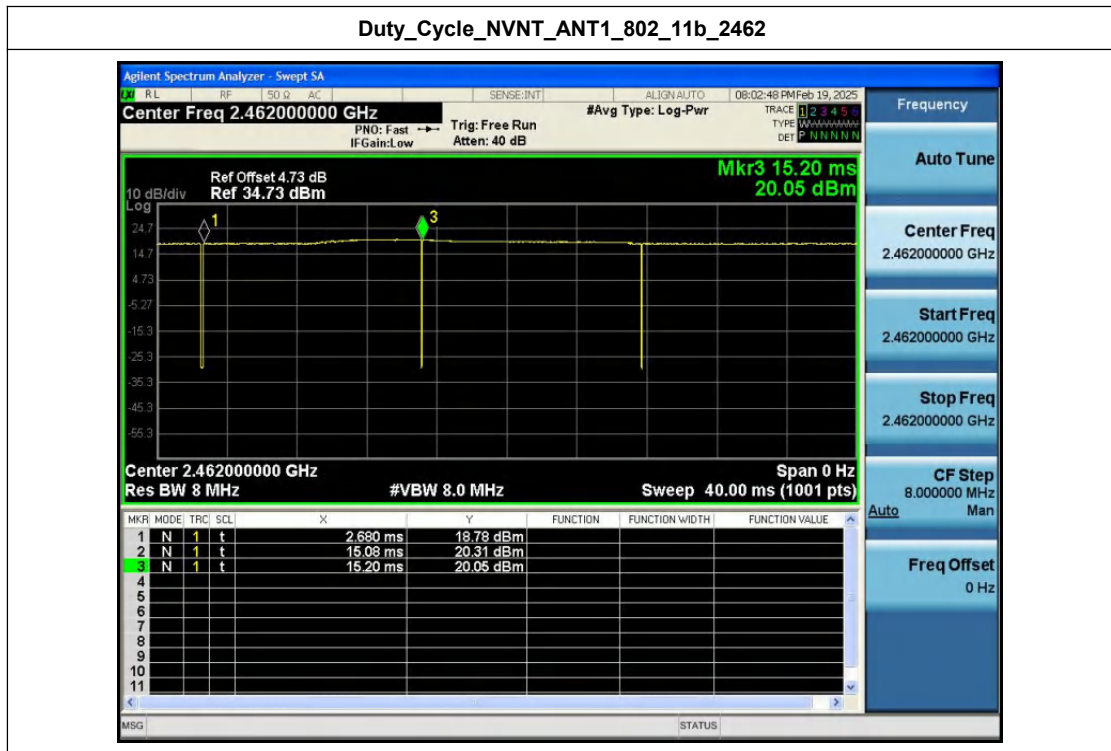
Duty_Cycle_NVNT_ANT1_802_11b_2412



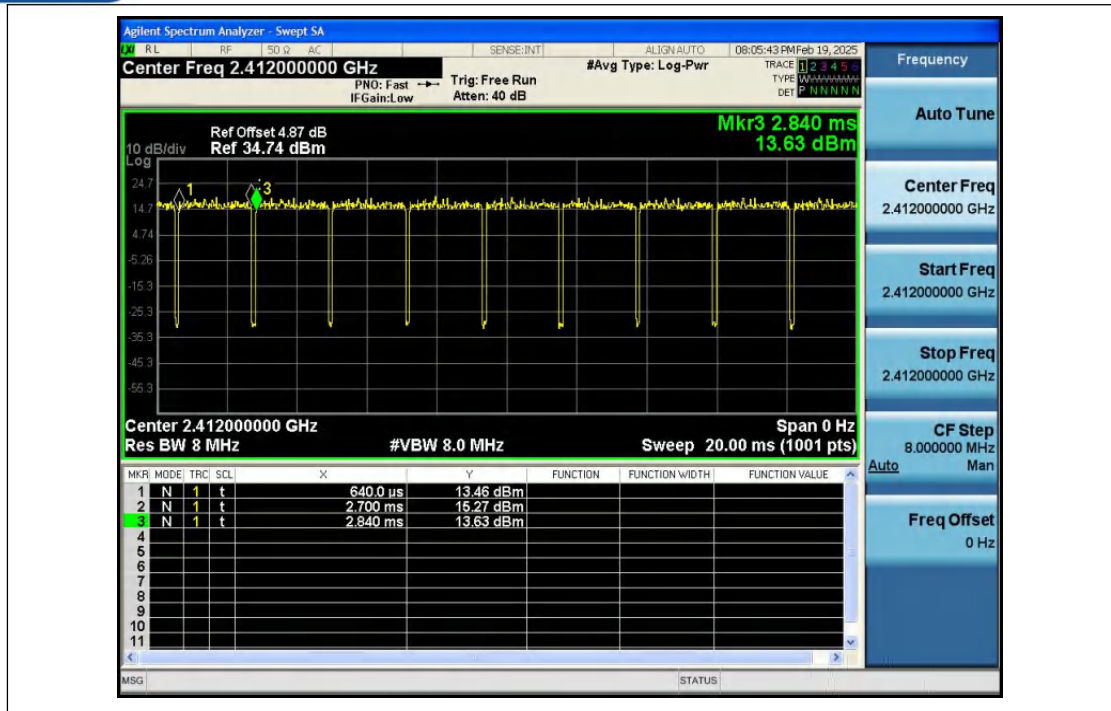
Duty_Cycle_NVNT_ANT1_802_11b_2437



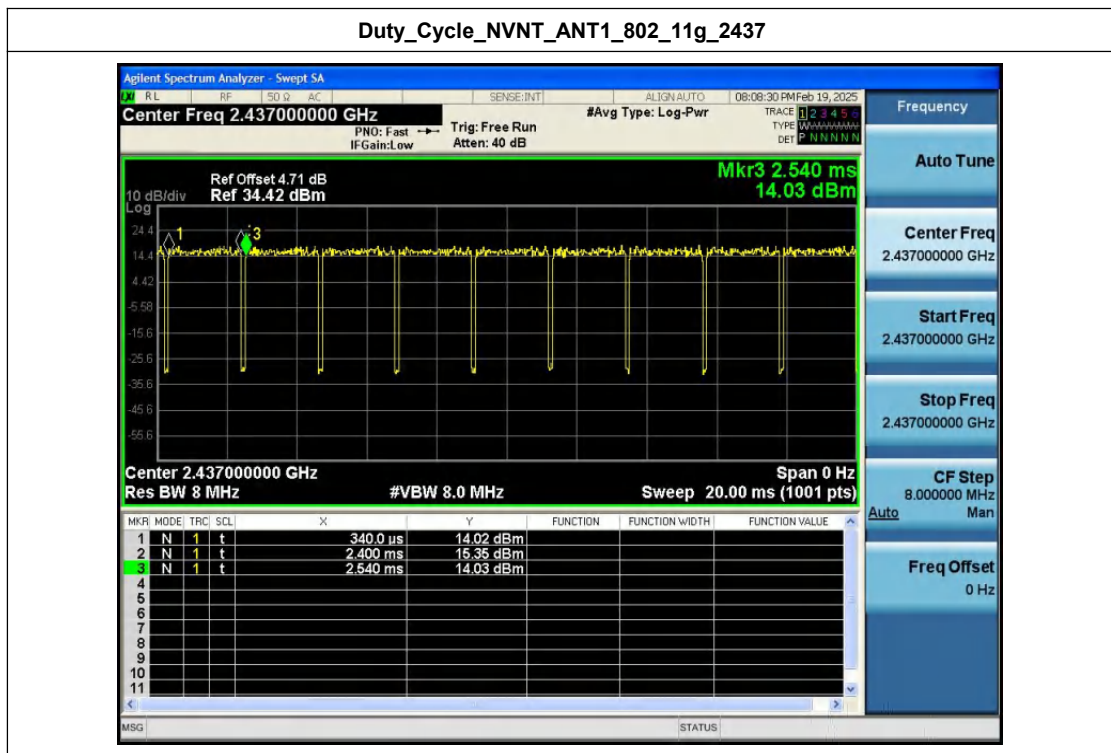
Duty_Cycle_NVNT_ANT1_802_11b_2462



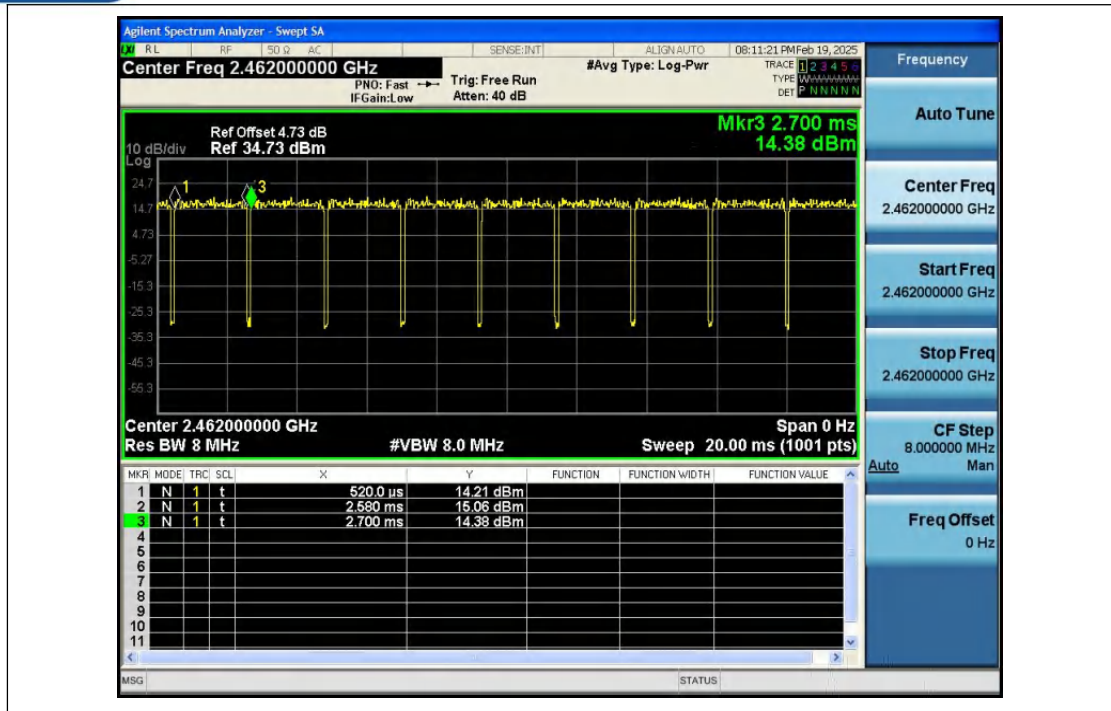
Duty_Cycle_NVNT_ANT1_802_11g_2412



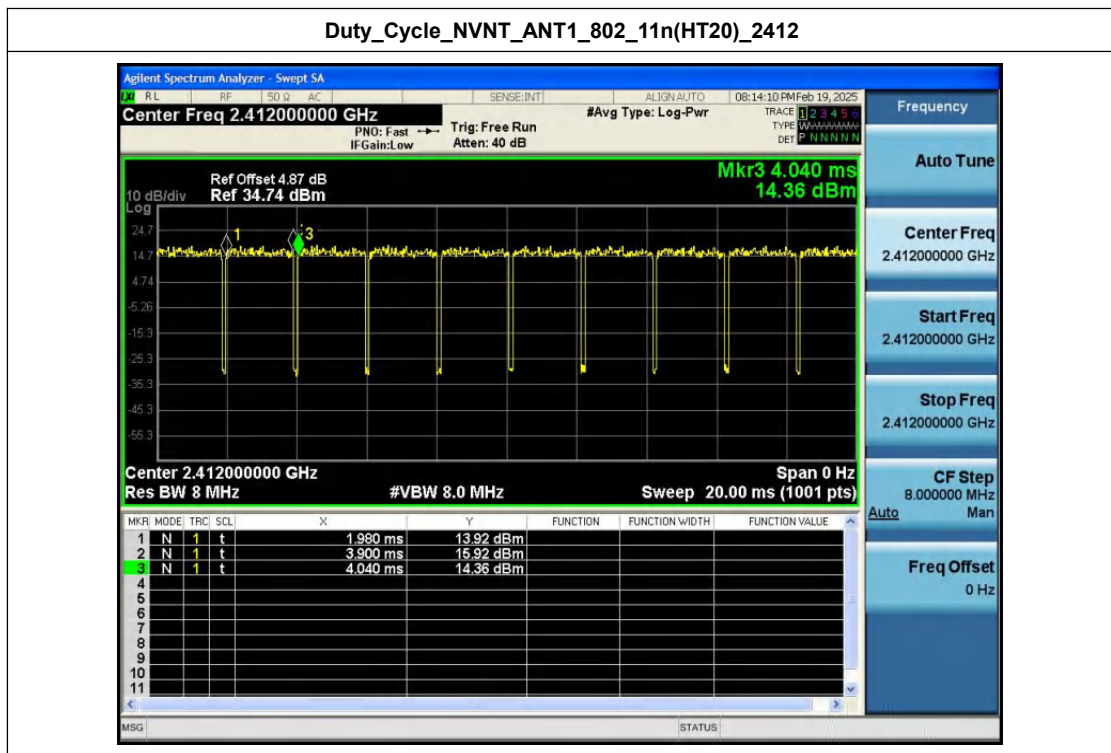
Duty_Cycle_NVNT_ANT1_802_11g_2437



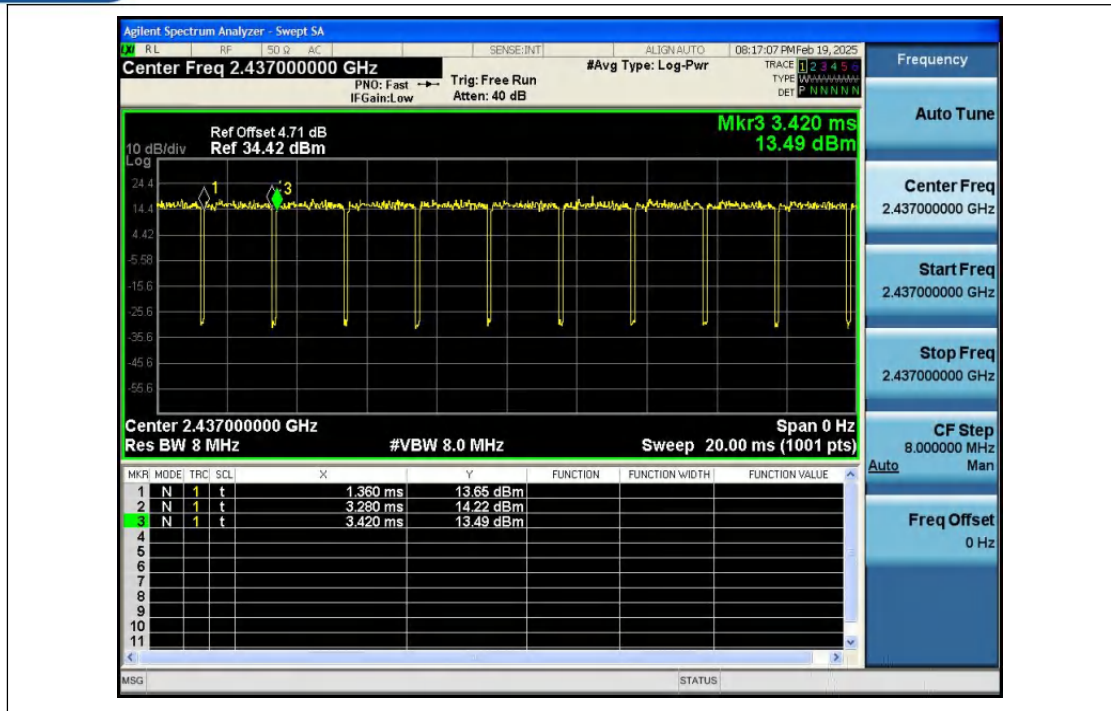
Duty_Cycle_NVNT_ANT1_802_11g_2462



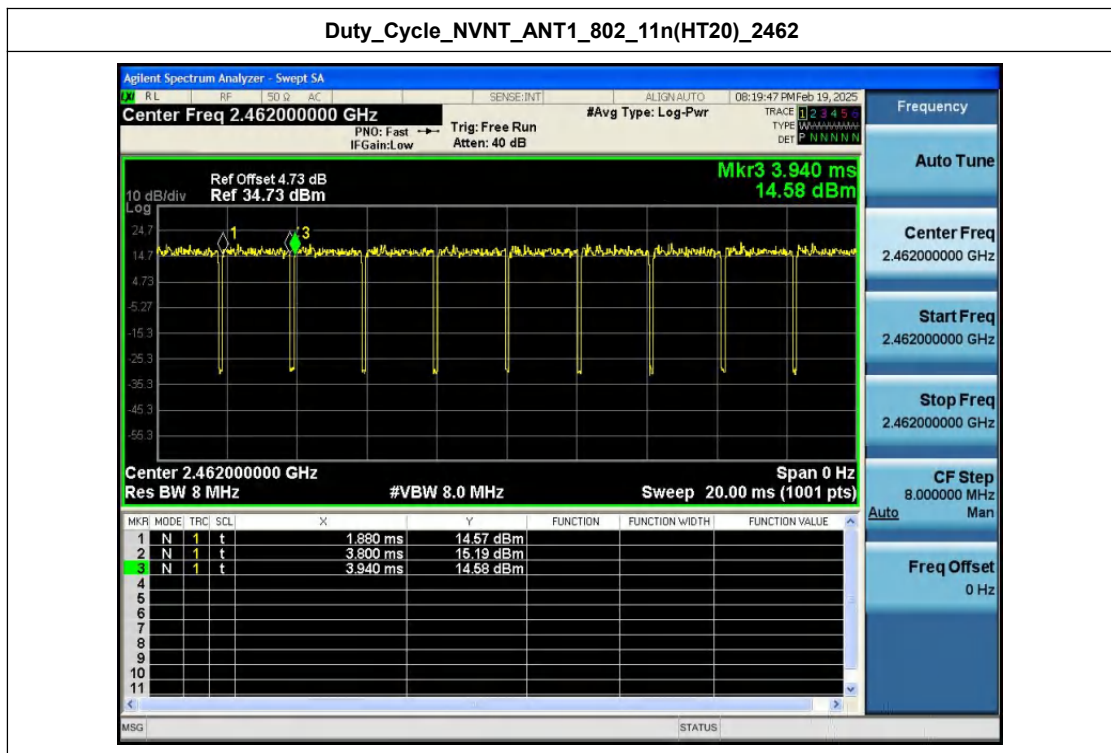
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462



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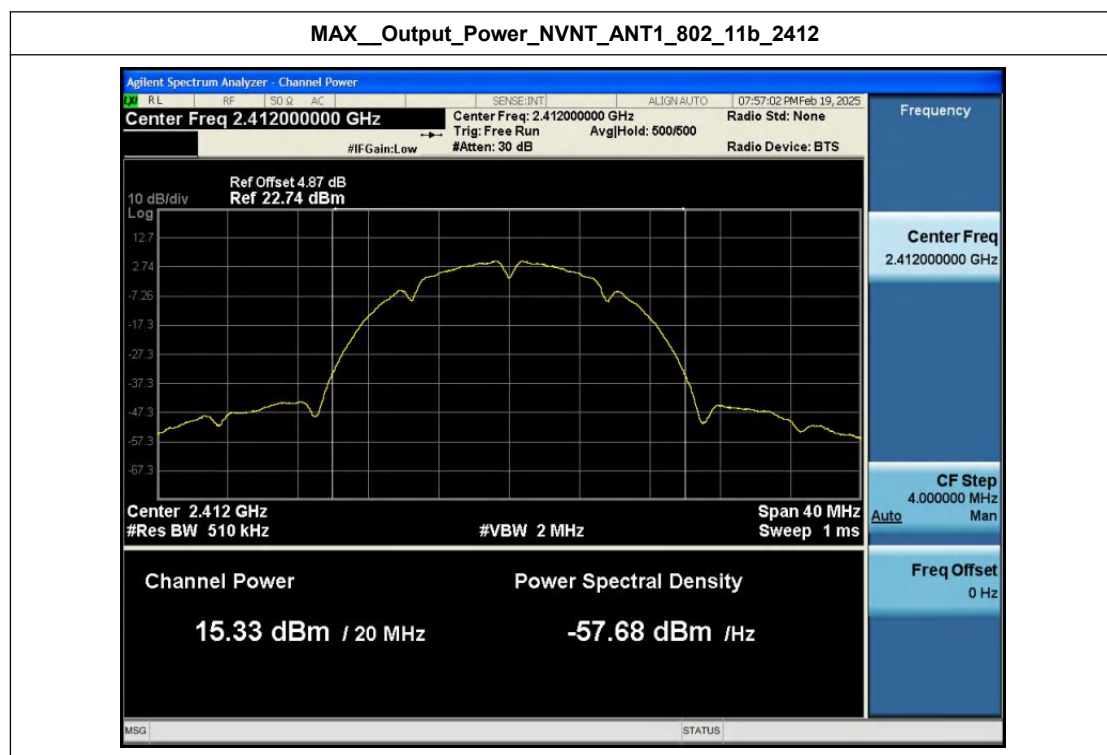


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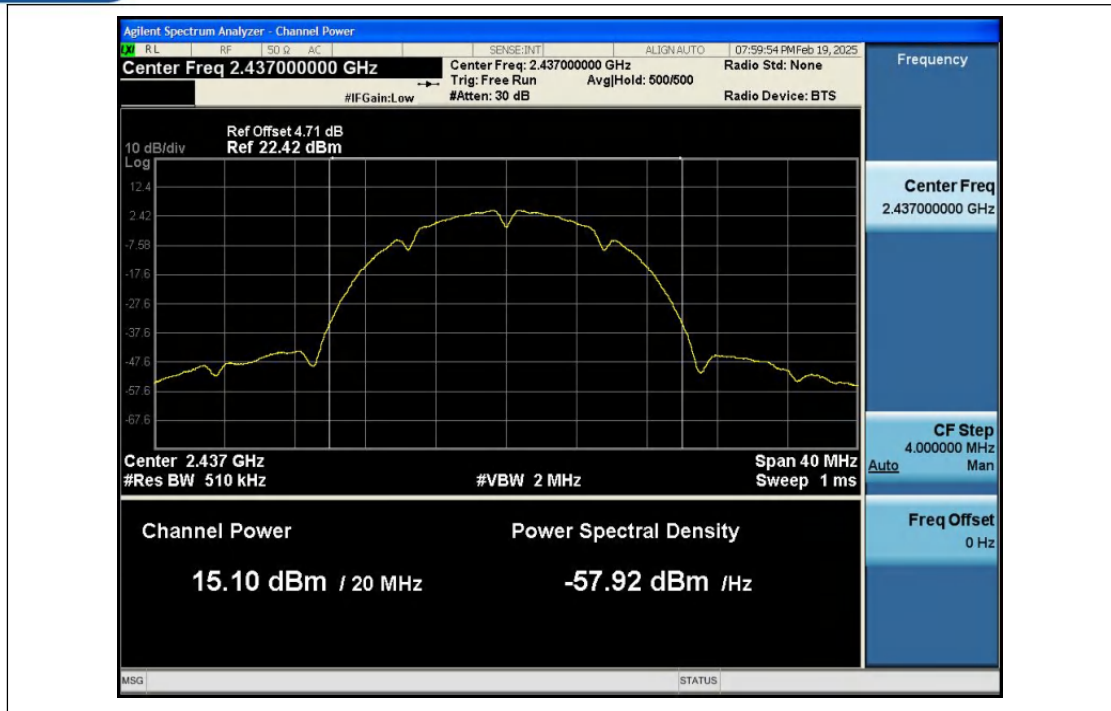
Appendix D: MAX. Output Power

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	15.33	0.00	15.33	30	Pass
NVNT	ANT1	802.11b	2437.00	RMS	15.10	0.00	15.10	30	Pass
NVNT	ANT1	802.11b	2462.00	RMS	15.51	0.00	15.51	30	Pass
NVNT	ANT1	802.11g	2412.00	RMS	11.60	0.24	11.84	30	Pass
NVNT	ANT1	802.11g	2437.00	RMS	11.48	0.24	11.72	30	Pass
NVNT	ANT1	802.11g	2462.00	RMS	12.02	0.20	12.22	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	RMS	11.54	0.26	11.80	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	RMS	11.42	0.26	11.68	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	RMS	11.91	0.26	12.17	30	Pass

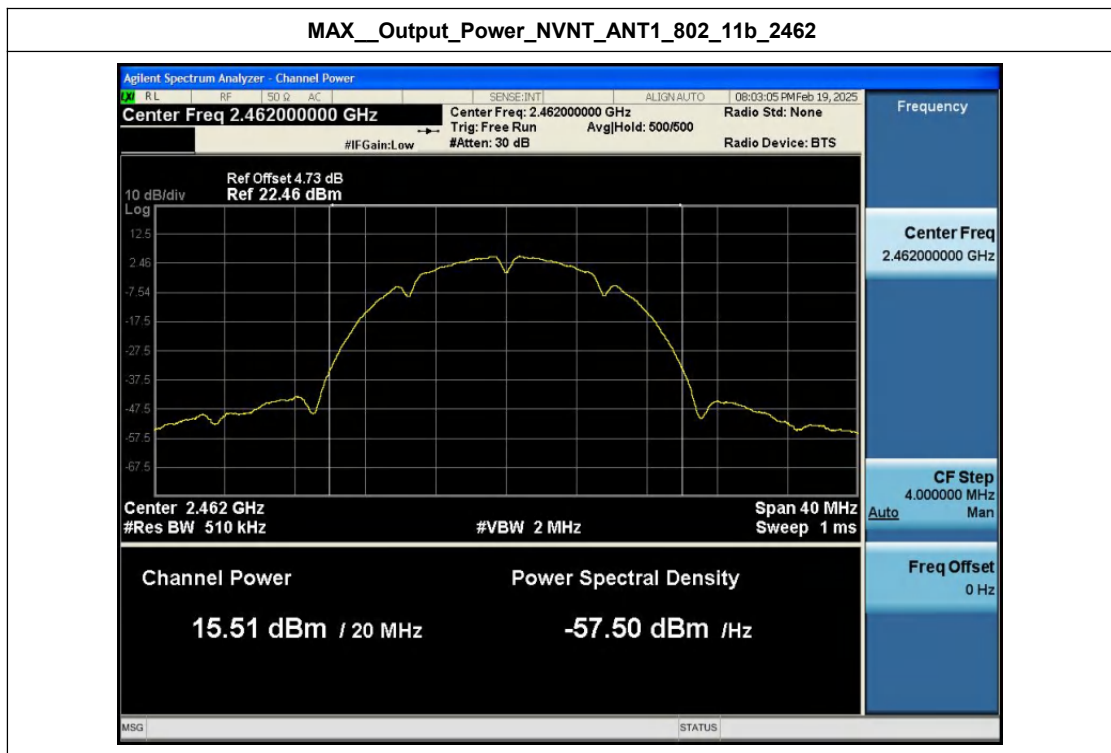
Note: The cable loss are compensated in the graph.



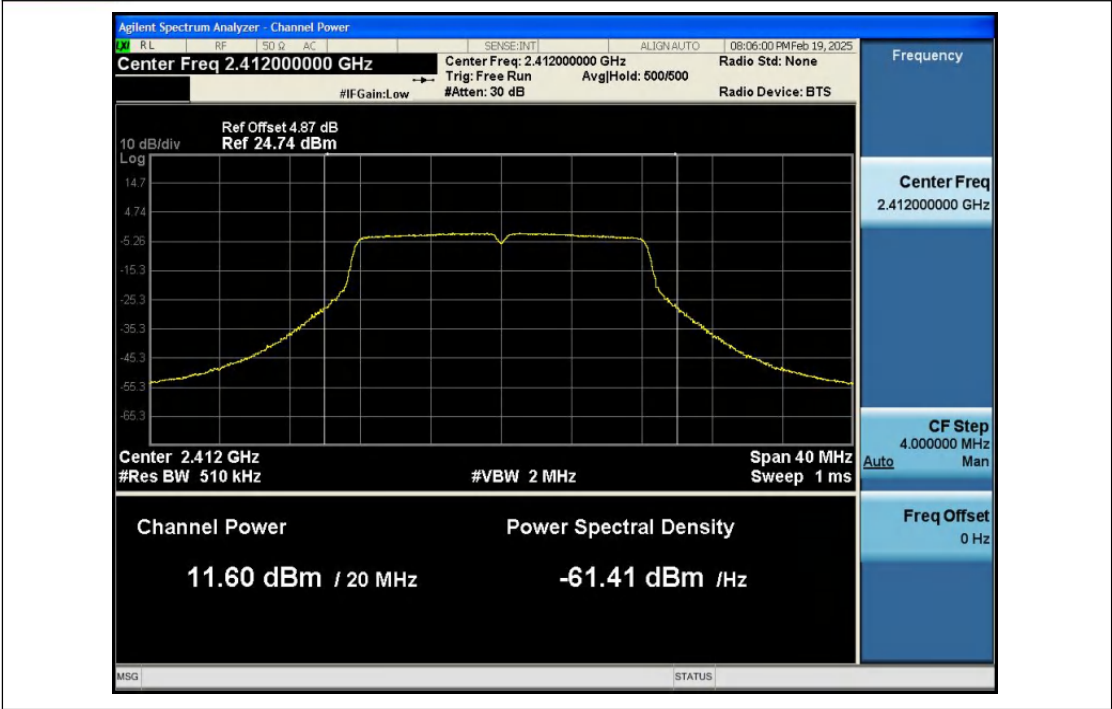
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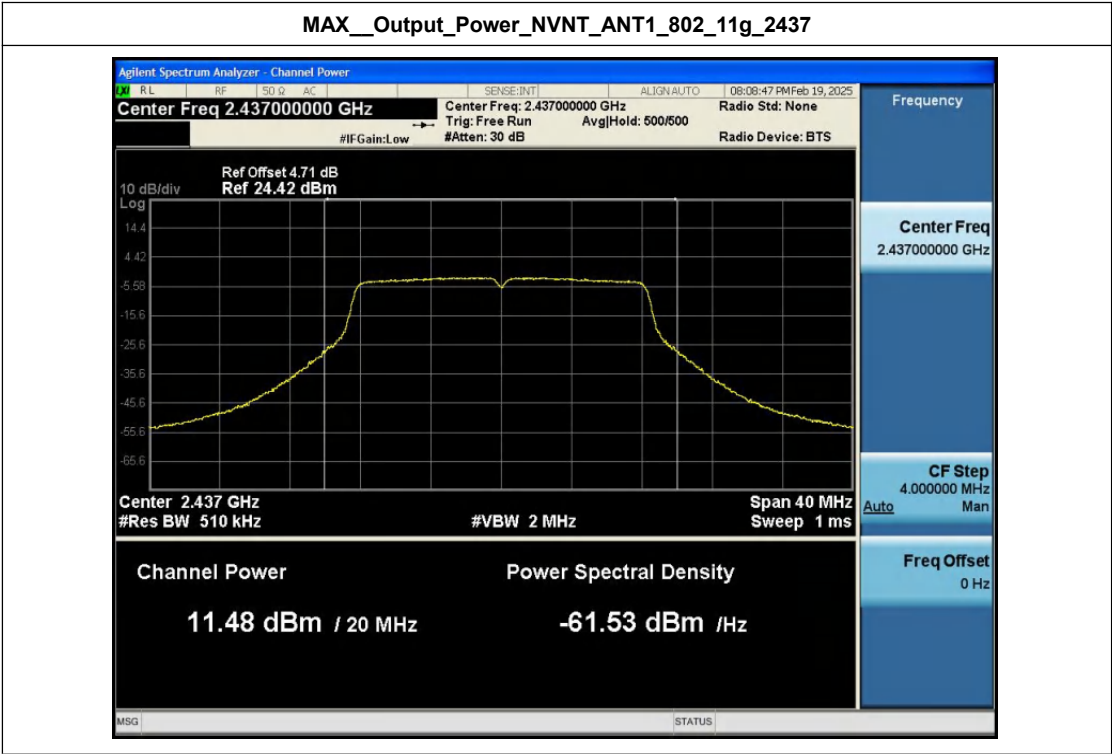
MAX__Output_Power_NVNT_ANT1_802_11b_2462



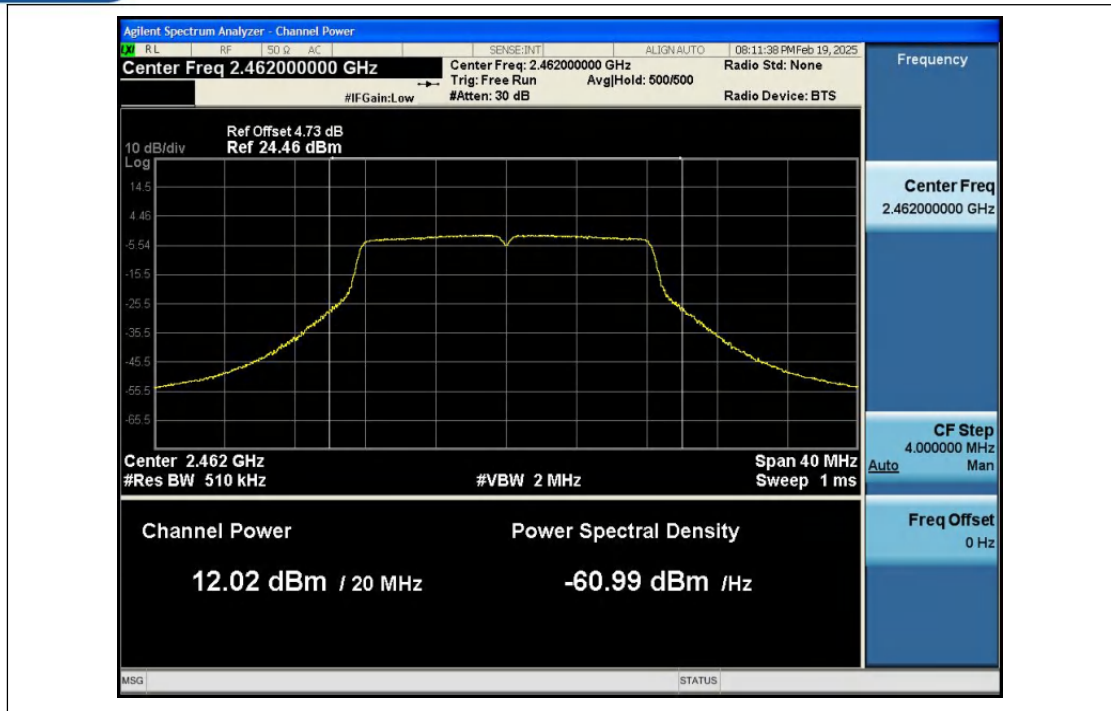
MAX__Output_Power_NVNT_ANT1_802_11g_2412



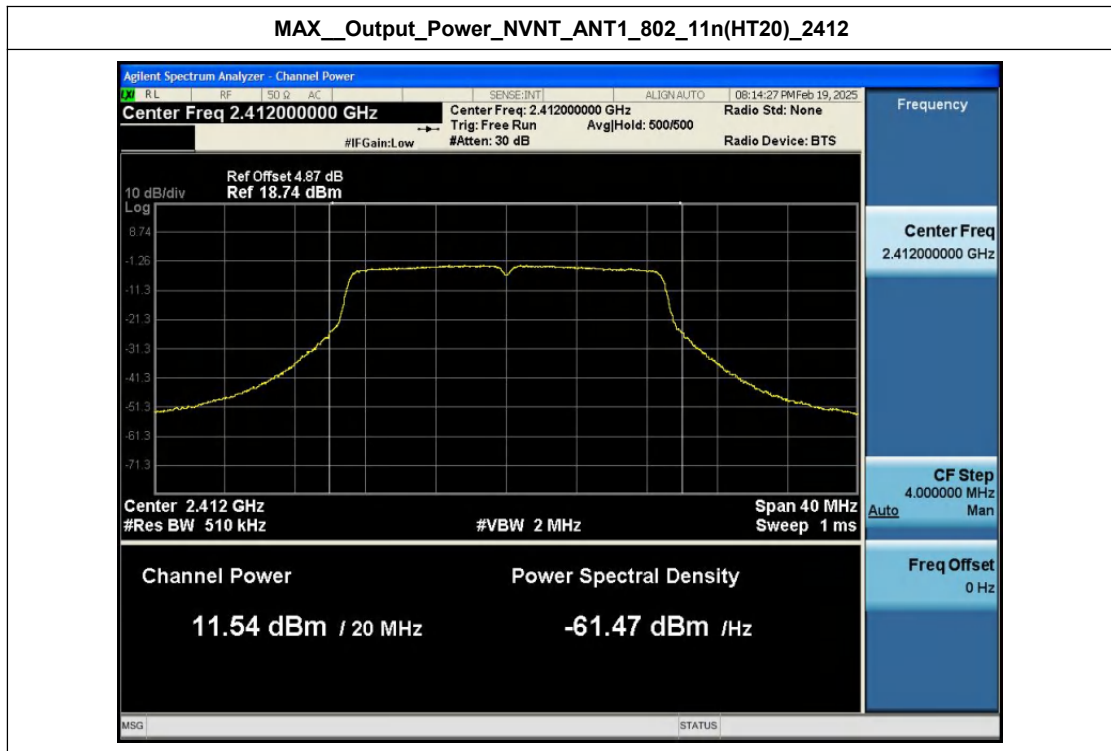
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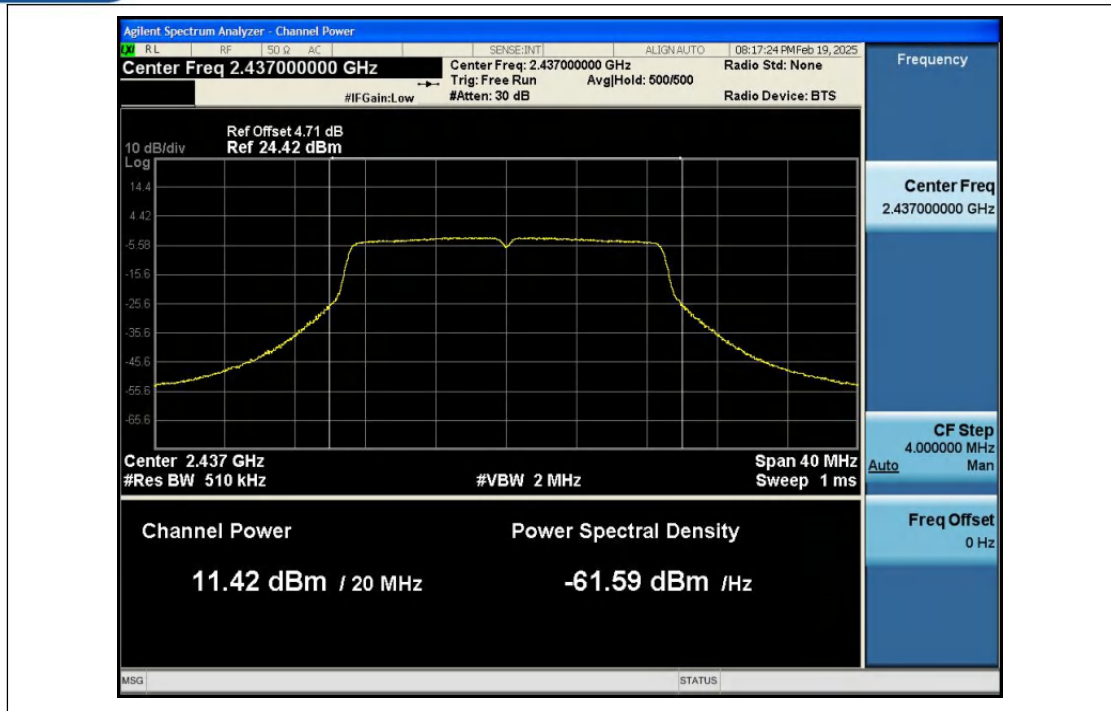
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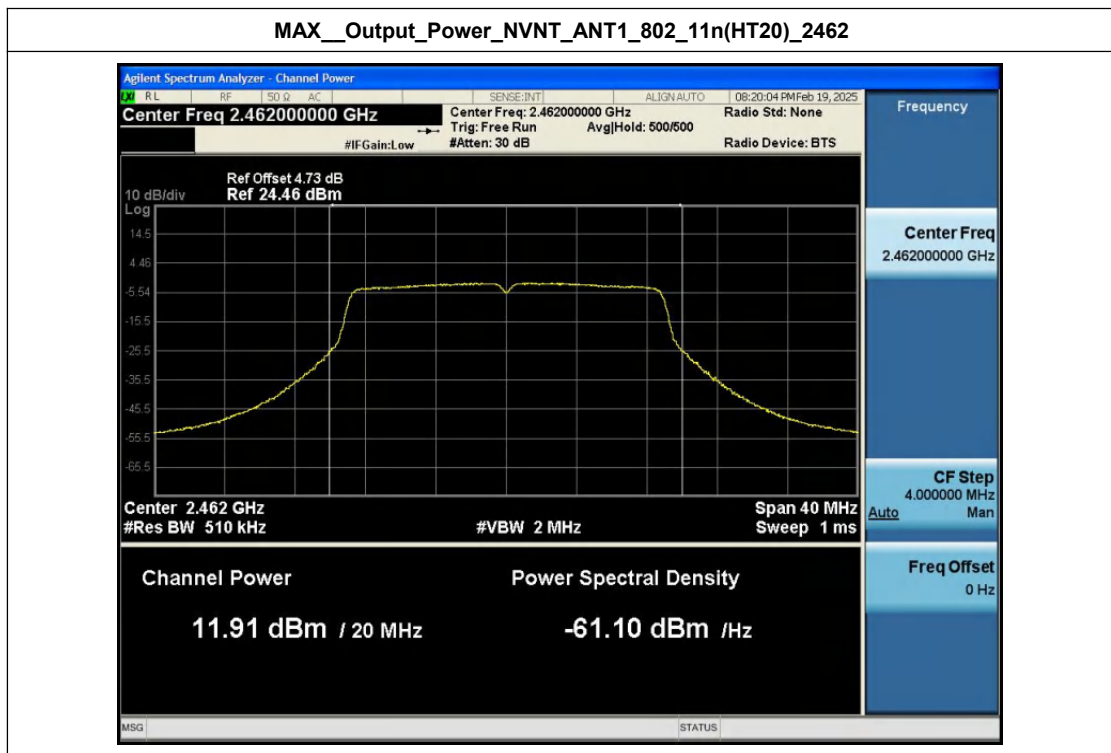
MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2412



MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2437



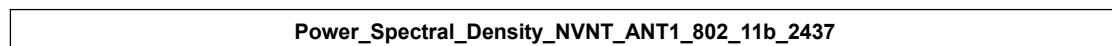
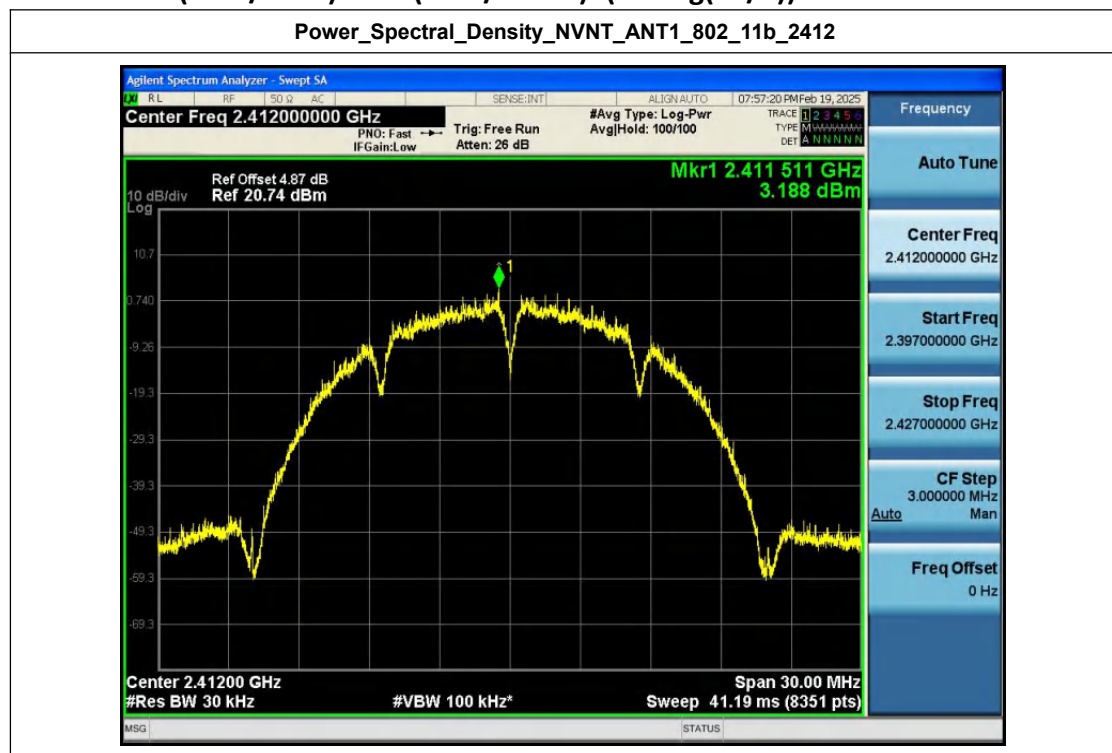
MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2462



Appendix E: Power Spectral Density

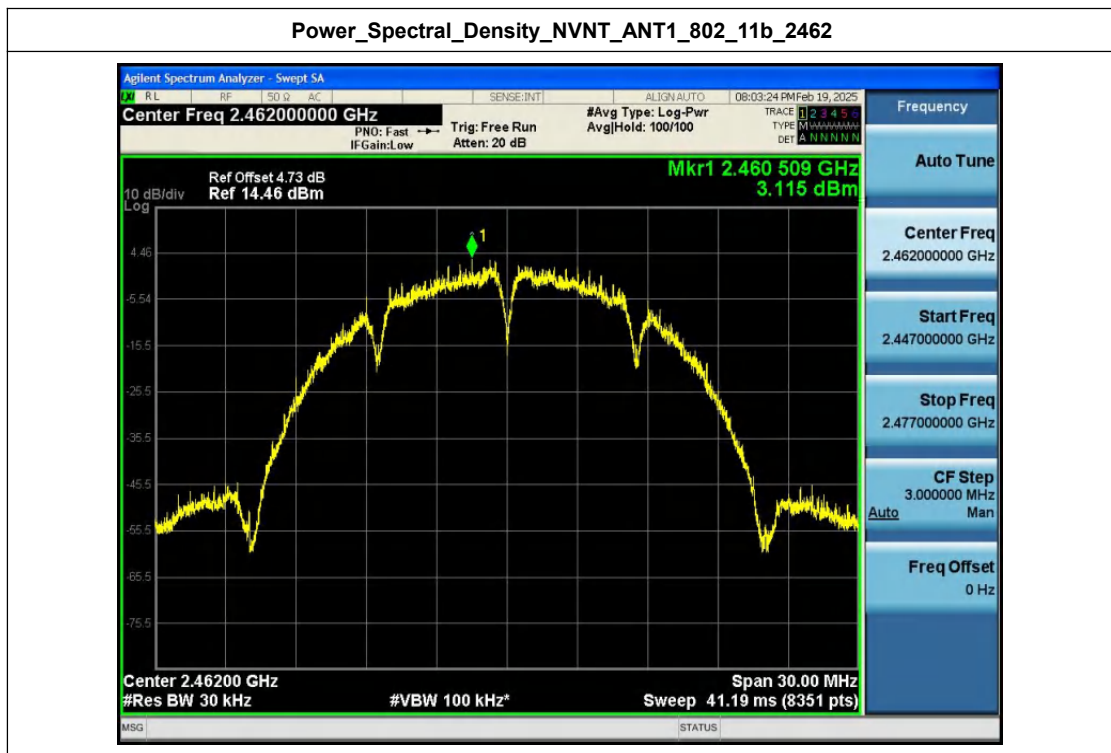
Condi tion	Anten na	Modulatio n	Frequen cy (MHz)	SA_PSD(dBm/3 0kHz)	Duty factor(d B)	RB factor(d B)	PSD(dBm/3 kHz)	limit(dBm/3 kHz)	Res ult
NVNT	ANT1	802.11b	2412.00	3.19	0.00	-10.00	-6.81	8	Pass
NVNT	ANT1	802.11b	2437.00	3.13	0.00	-10.00	-6.87	8	Pass
NVNT	ANT1	802.11b	2462.00	3.12	0.00	-10.00	-6.88	8	Pass
NVNT	ANT1	802.11g	2412.00	-4.15	0.24	-10.00	-13.91	8	Pass
NVNT	ANT1	802.11g	2437.00	-4.14	0.24	-10.00	-13.90	8	Pass
NVNT	ANT1	802.11g	2462.00	-3.60	0.20	-10.00	-13.40	8	Pass
NVNT	ANT1	802.11n(HT 20)	2412.00	-4.62	0.26	-10.00	-14.36	8	Pass
NVNT	ANT1	802.11n(HT 20)	2437.00	-4.60	0.26	-10.00	-14.34	8	Pass
NVNT	ANT1	802.11n(HT 20)	2462.00	-4.04	0.26	-10.00	-13.78	8	Pass

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

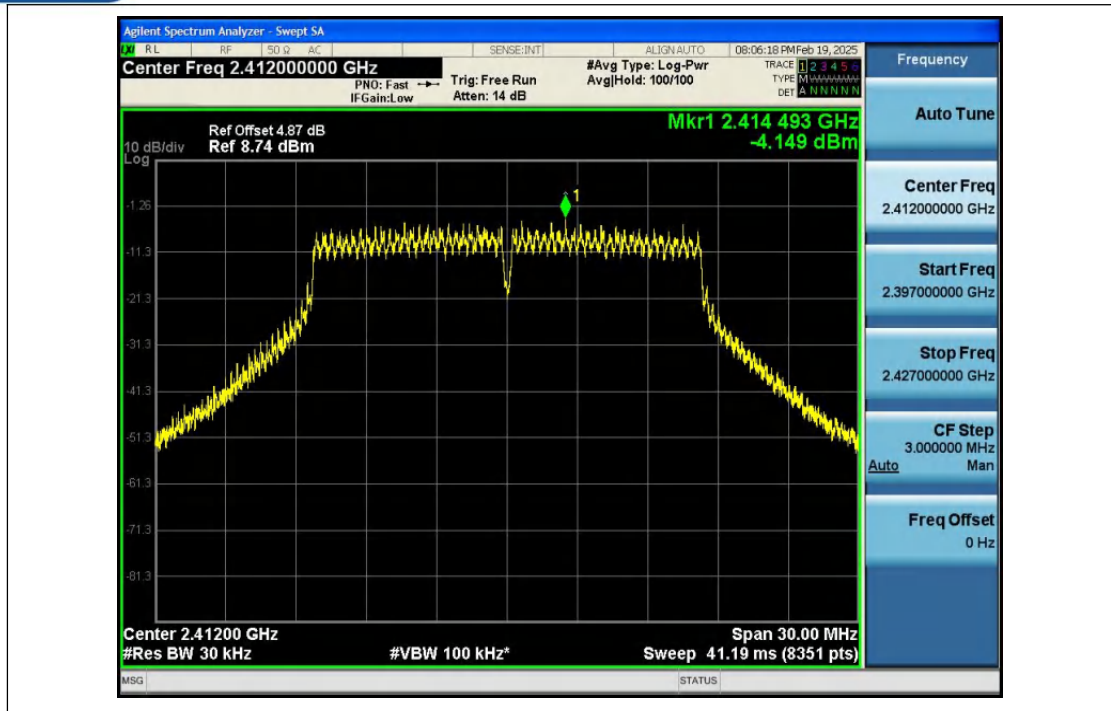




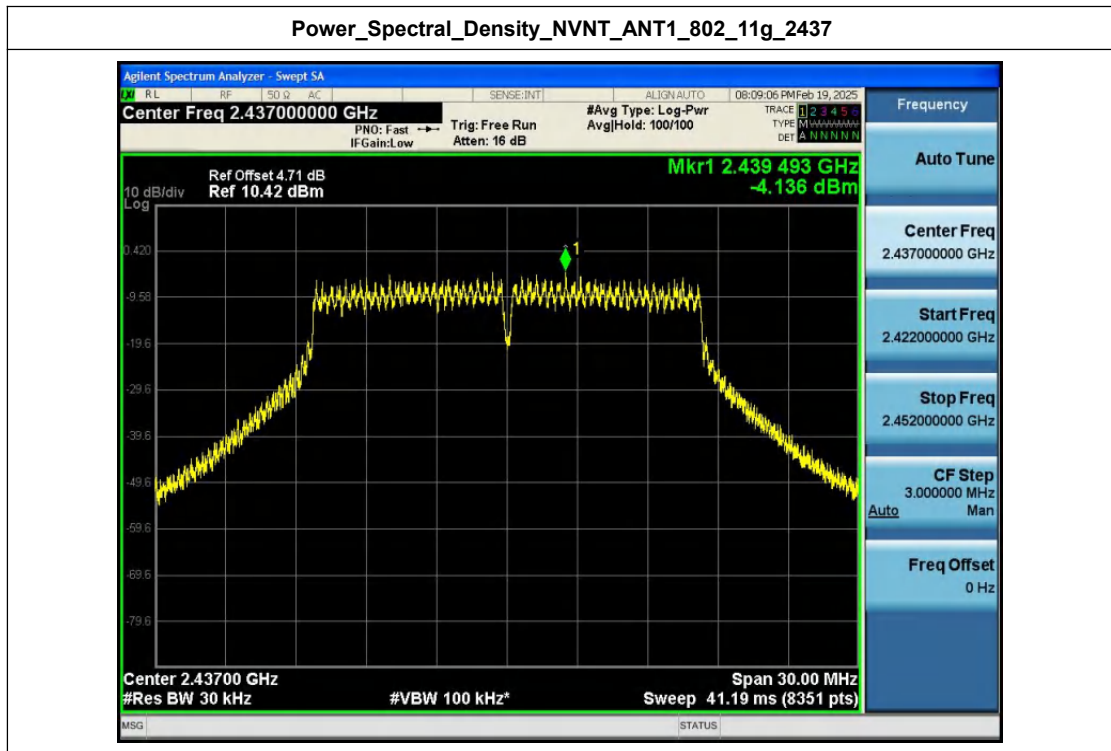
Power_Spectral_Density_NVNT_ANT1_802_11b_2462



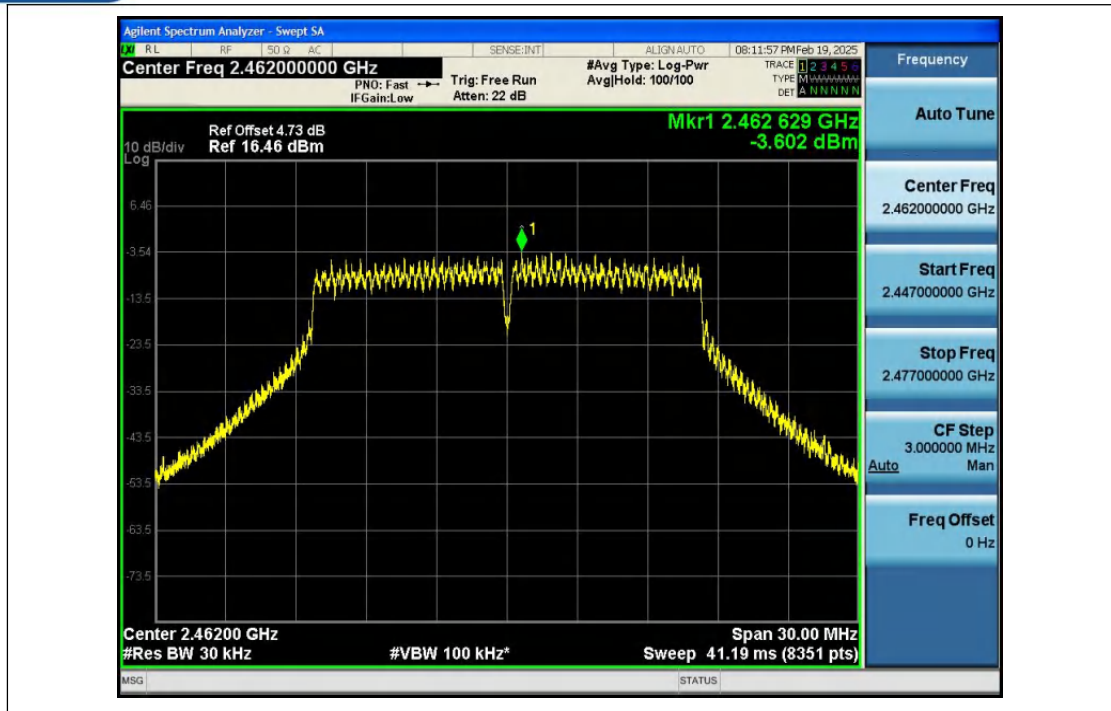
Power_Spectral_Density_NVNT_ANT1_802_11g_2412



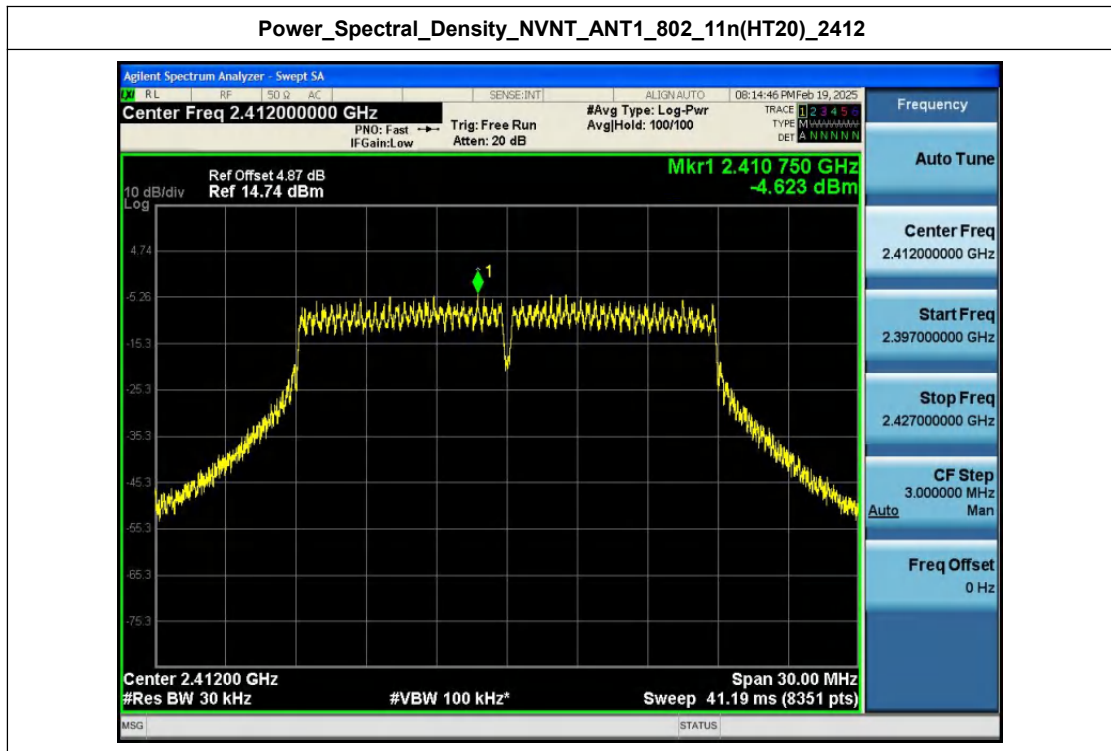
Power_Spectral_Density_NVNT_ANT1_802_11g_2437



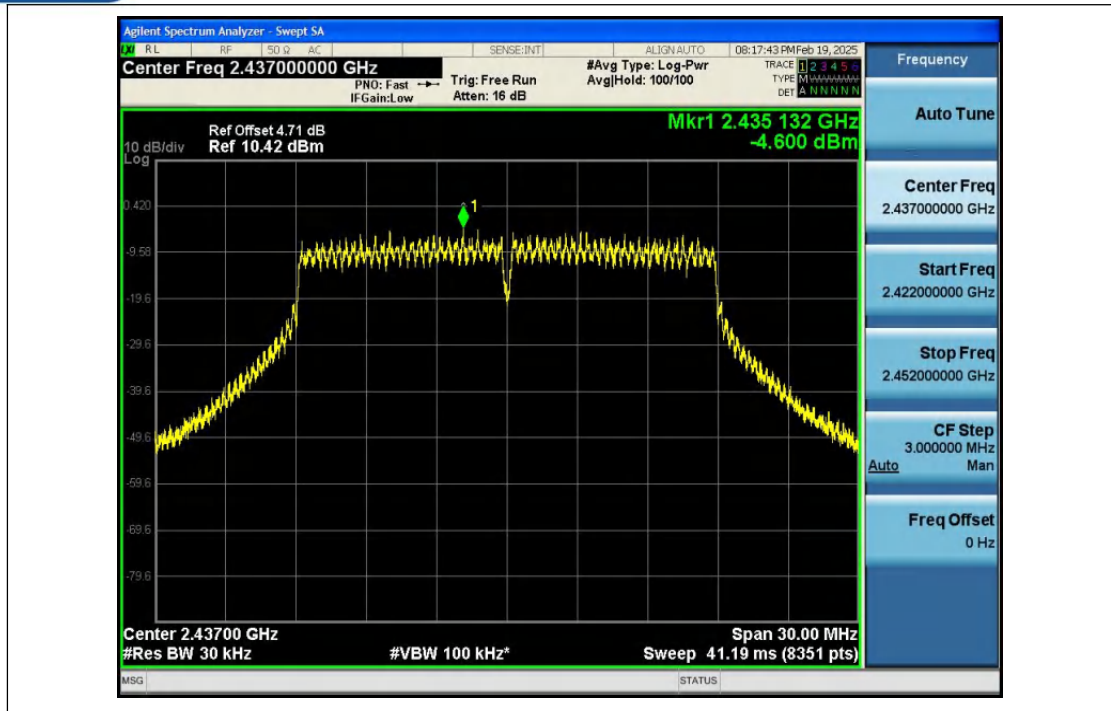
Power_Spectral_Density_NVNT_ANT1_802_11g_2462



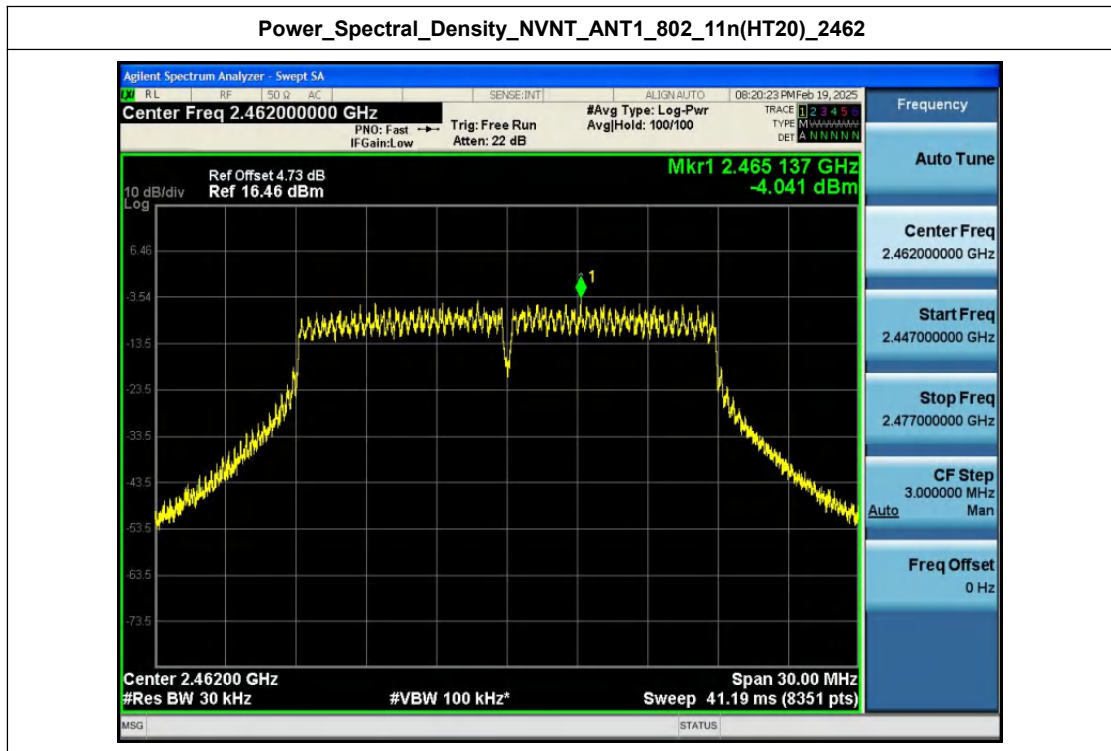
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2462



Appendix F: Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.040	6.348	-42.017	-23.652	Pass
NVNT	ANT1	802.11b	2462.00	2488.480	7.214	-52.554	-22.786	Pass
NVNT	ANT1	802.11g	2412.00	2399.936	0.502	-34.763	-29.498	Pass
NVNT	ANT1	802.11g	2462.00	2484.784	1.110	-52.535	-28.890	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.824	0.197	-33.479	-29.803	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2484.544	0.042	-49.852	-29.958	Pass

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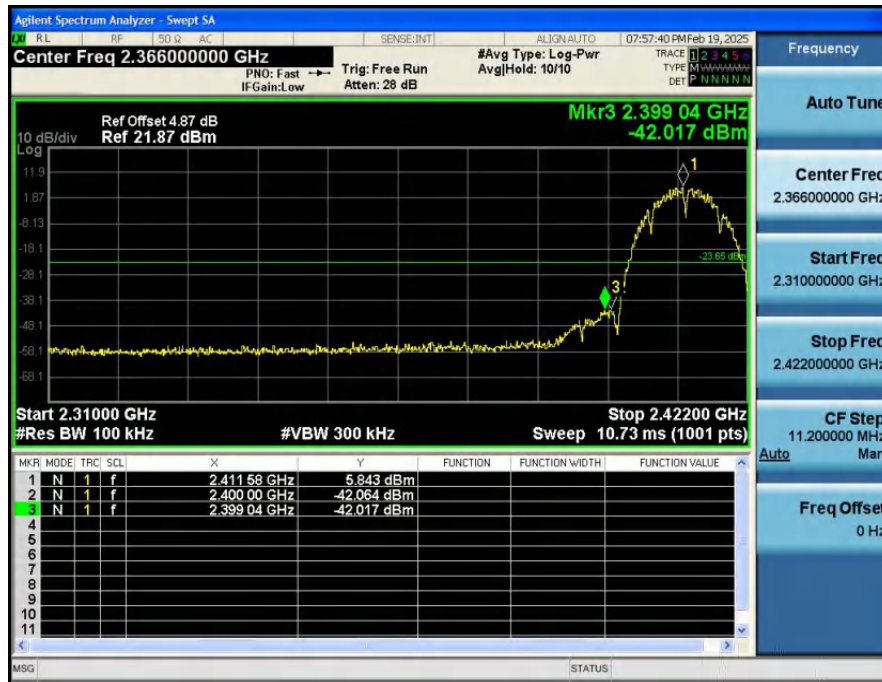


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1_Reference_Level_NVNT_ANT1_802_11b_2412



2_Bandedge_NVNT_ANT1_802_11b_2412



1_Reference_Level_NVNT_ANT1_802_11b_2462

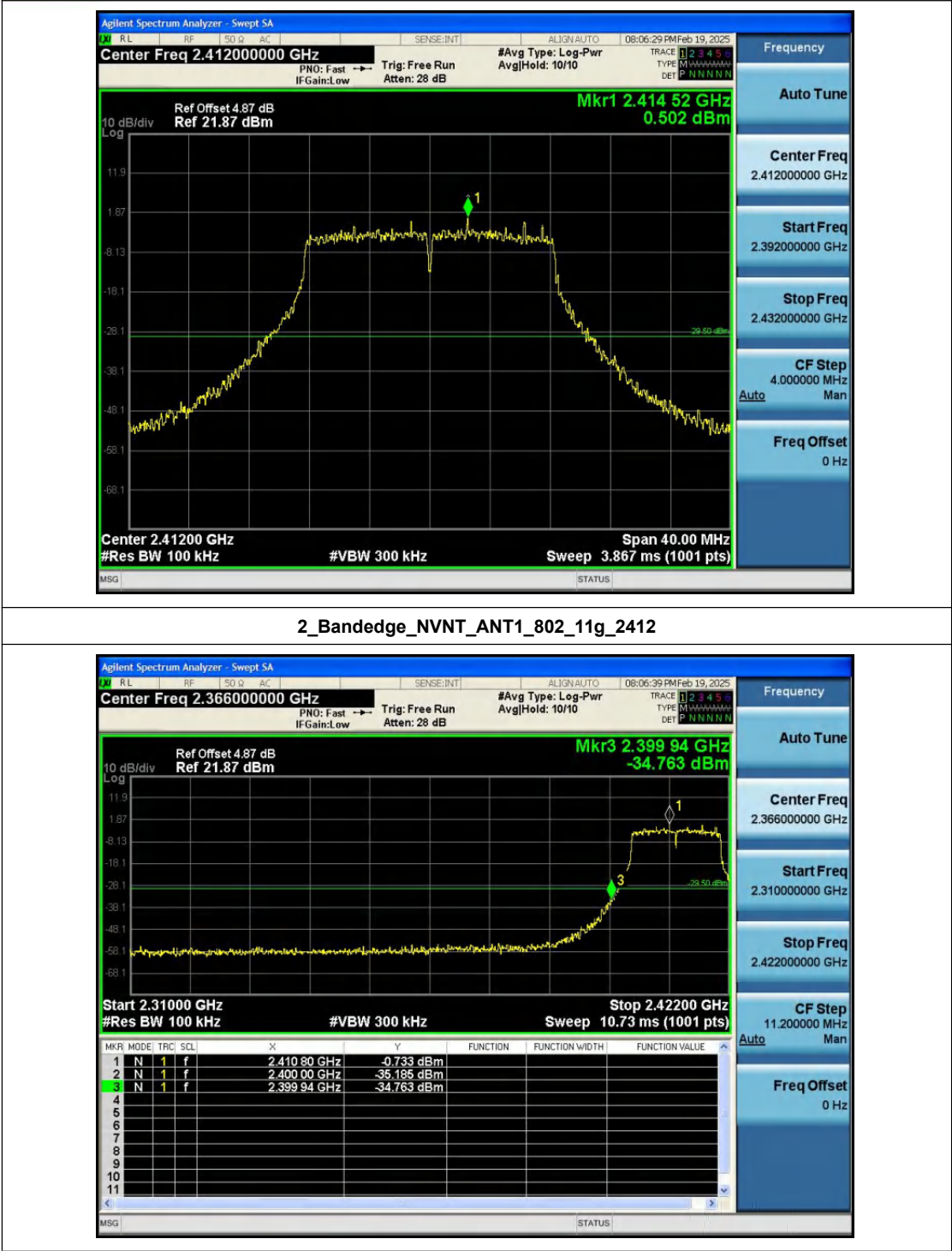
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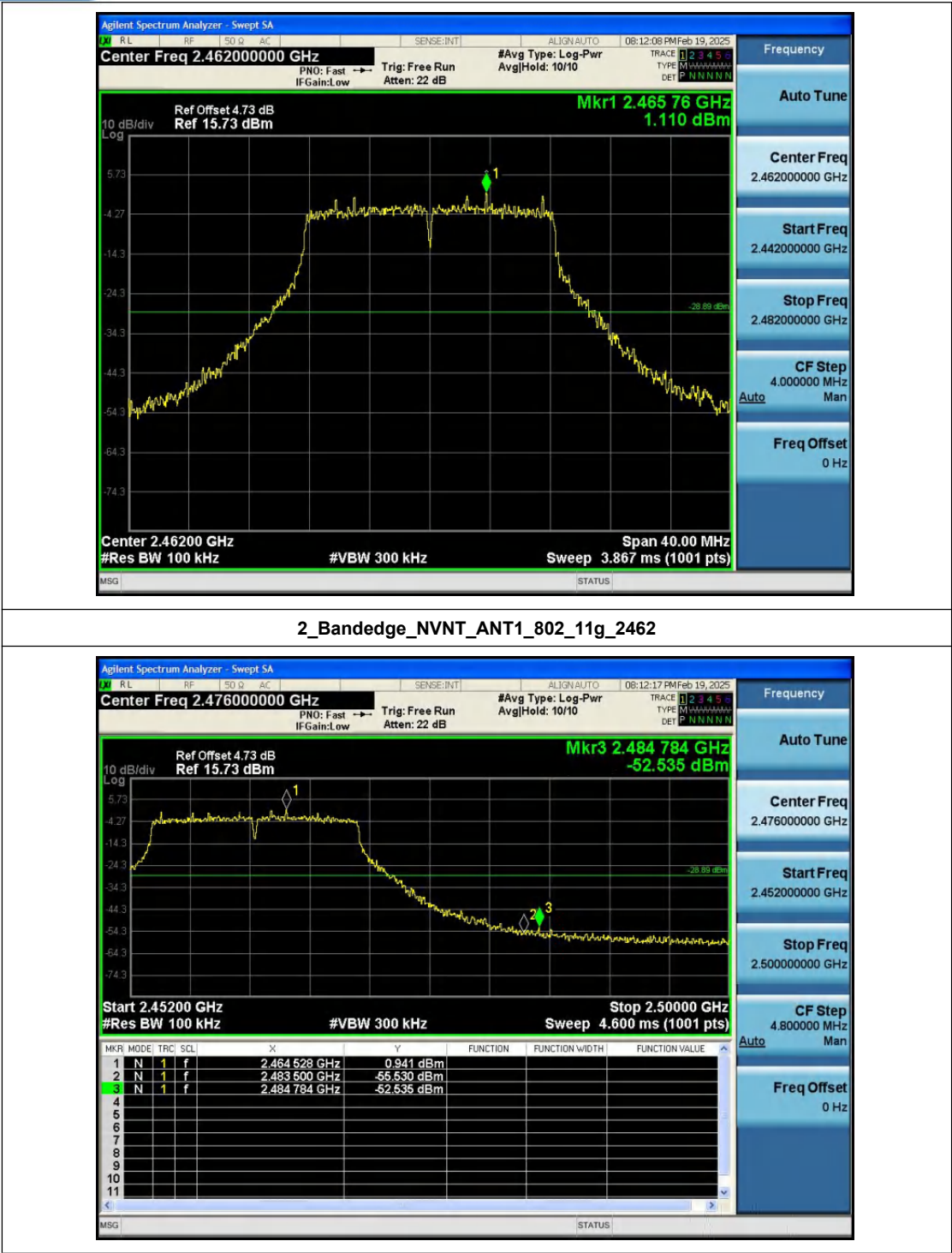
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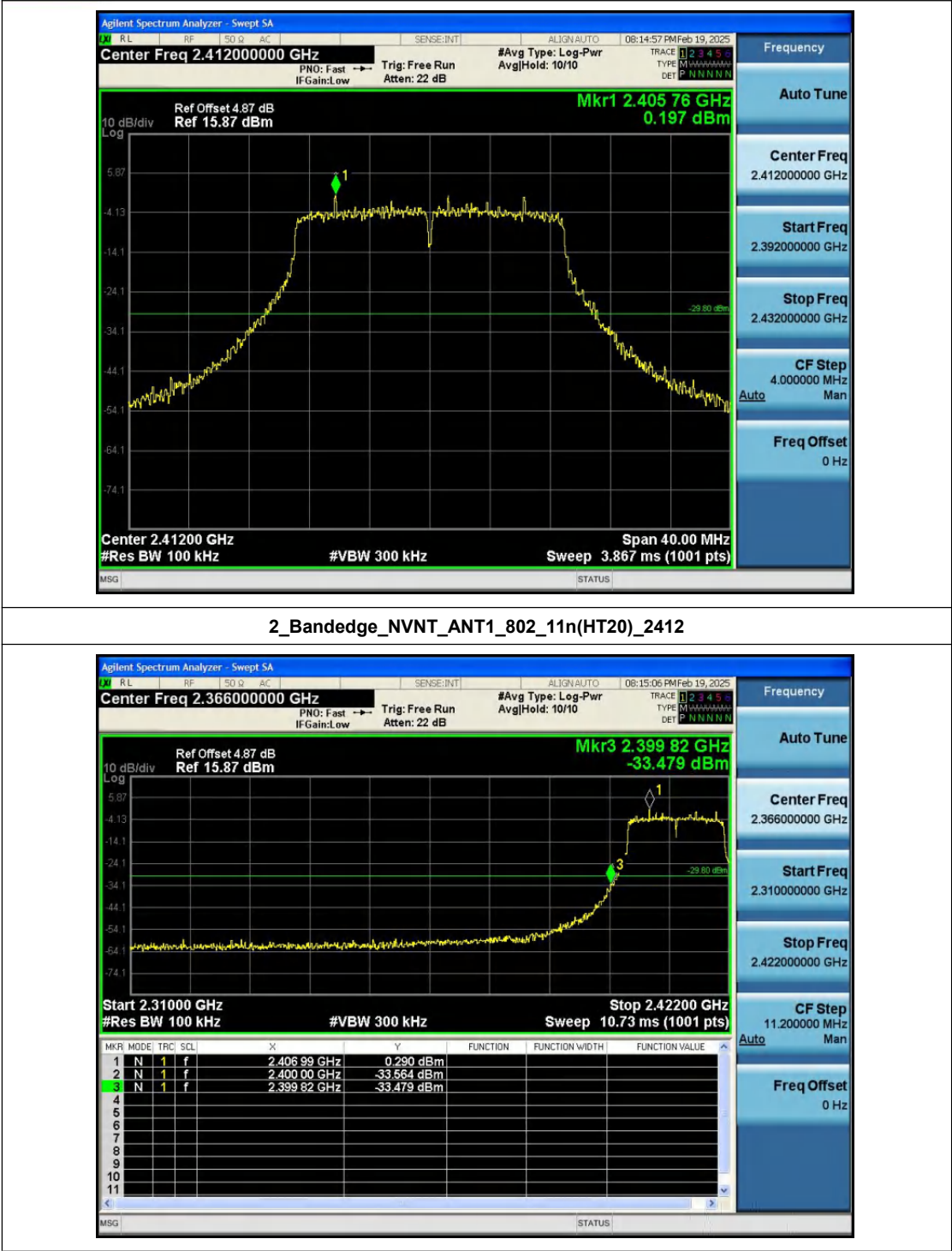
1_Reference_Level_NVNT_ANT1_802_11g_2412



1_Reference_Level_NVNT_ANT1_802_11g_2462



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462



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Appendix G: Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24310.828	6.348	-44.948	-23.652	Pass
NVNT	ANT1	802.11b	2437.00	24860.168	5.794	-44.424	-24.206	Pass
NVNT	ANT1	802.11b	2462.00	24965.042	7.214	-43.982	-22.786	Pass
NVNT	ANT1	802.11g	2412.00	24333.301	0.502	-44.459	-29.498	Pass
NVNT	ANT1	802.11g	2437.00	24857.671	0.022	-50.543	-29.978	Pass
NVNT	ANT1	802.11g	2462.00	24820.216	1.110	-51.481	-28.890	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	25000.000	0.197	-50.778	-29.803	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24825.210	0.254	-50.968	-29.746	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24870.156	0.042	-44.323	-29.958	Pass

Shenzhen Anbotek Compliance Laboratory Limited

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Tel: (86) 0755-26066440 Email: service@anbotek.com

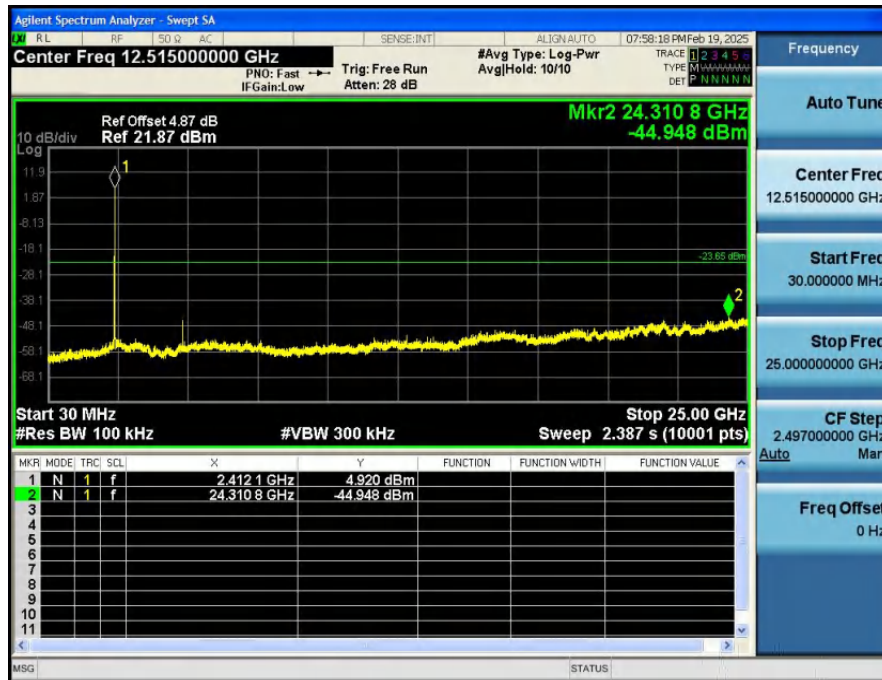


Hotline
400-003-0500
www.anbotek.com

1_Reference_Level_NVNT_ANT1_802_11b_2412



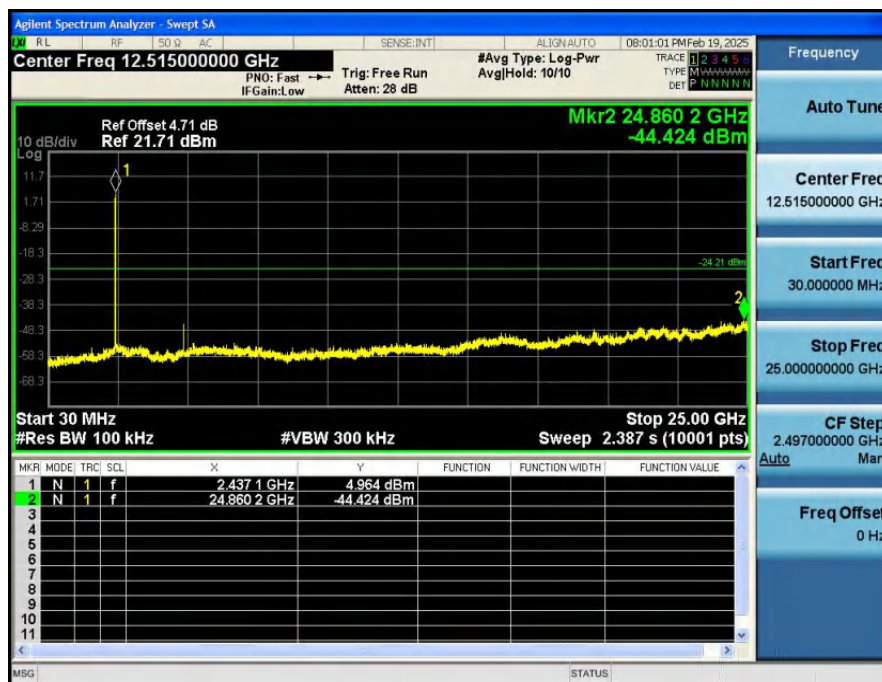
2_Spurious_Emission_NVNT_ANT1_802_11b_2412



1_Reference_Level_NVNT_ANT1_802_11b_2437



2_Spurious_Emission_NVNT_ANT1_802_11b_2437



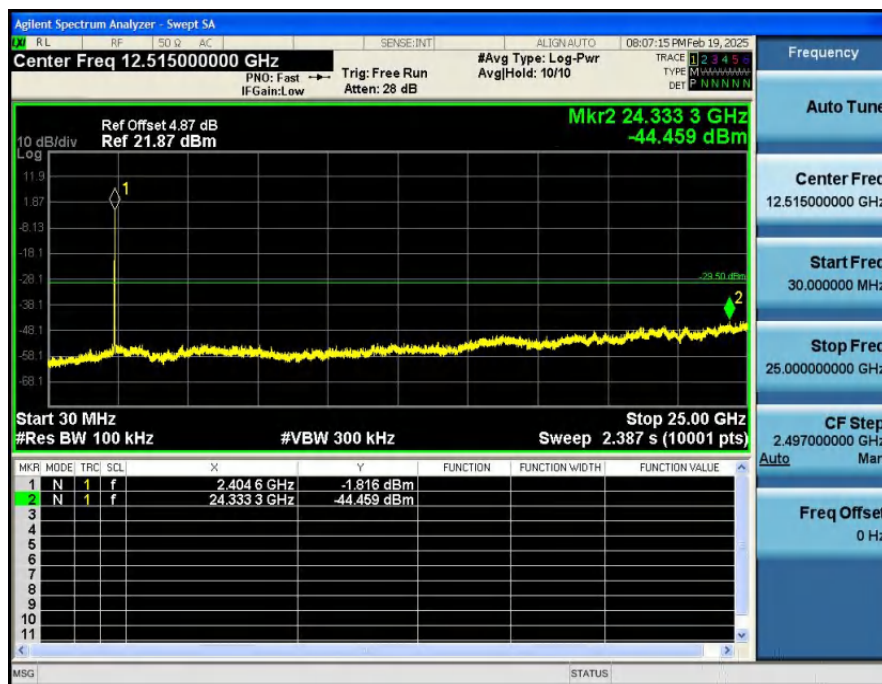
1_Reference_Level_NVNT_ANT1_802_11b_2462



1_Reference_Level_NVNT_ANT1_802_11g_2412



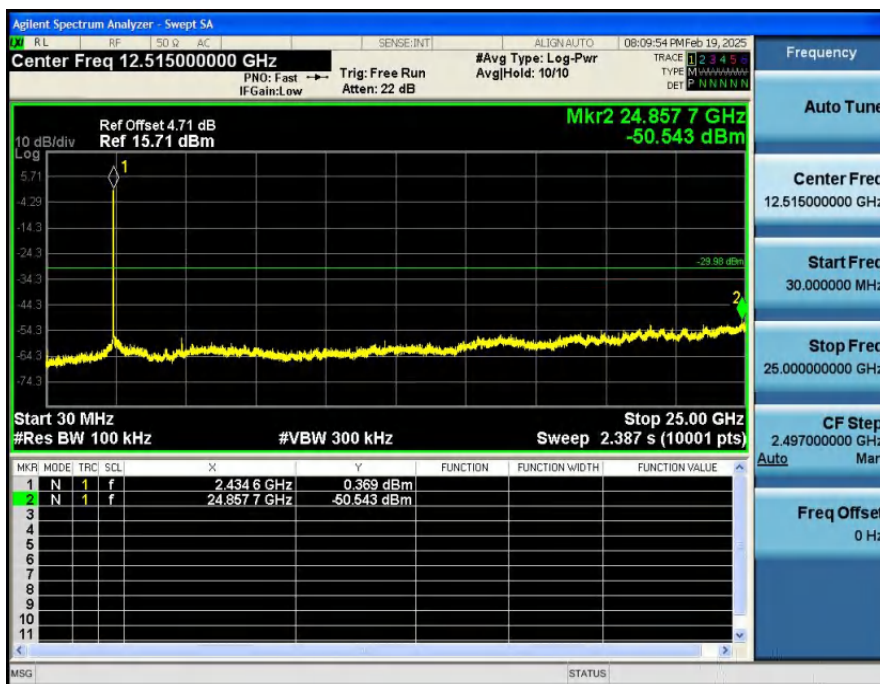
2_Spurious_Emission_NVNT_ANT1_802_11g_2412



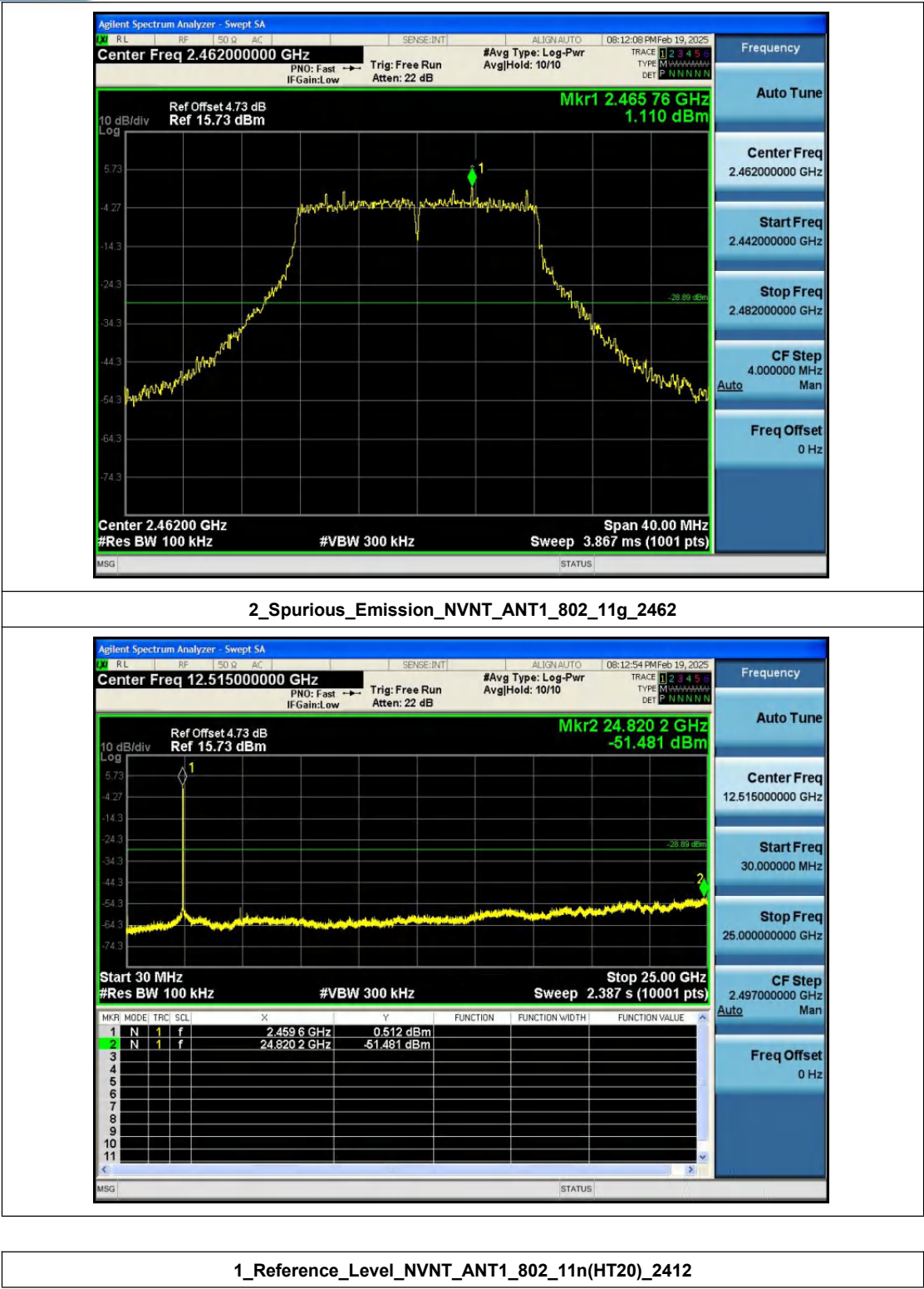
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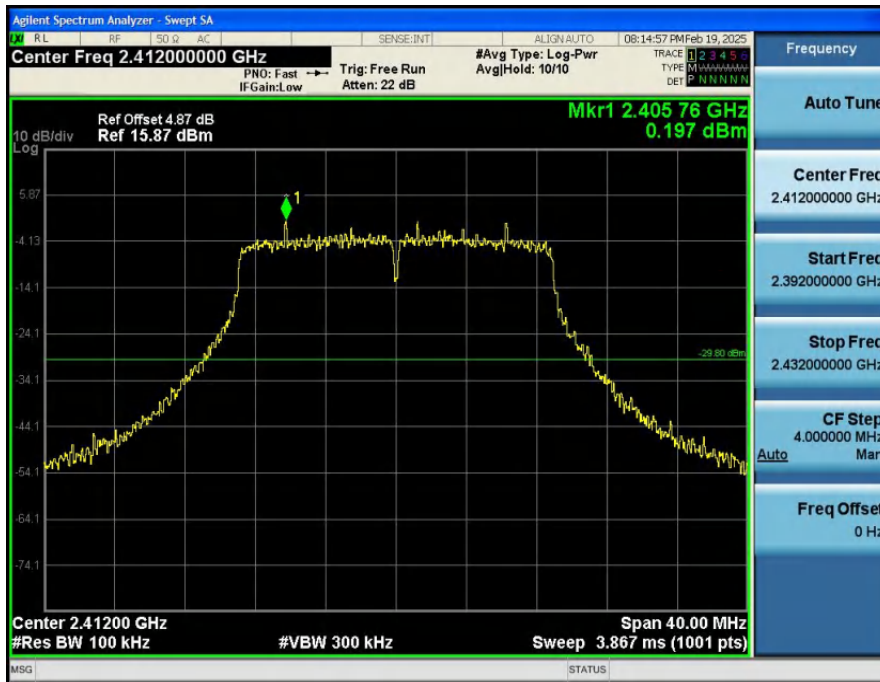


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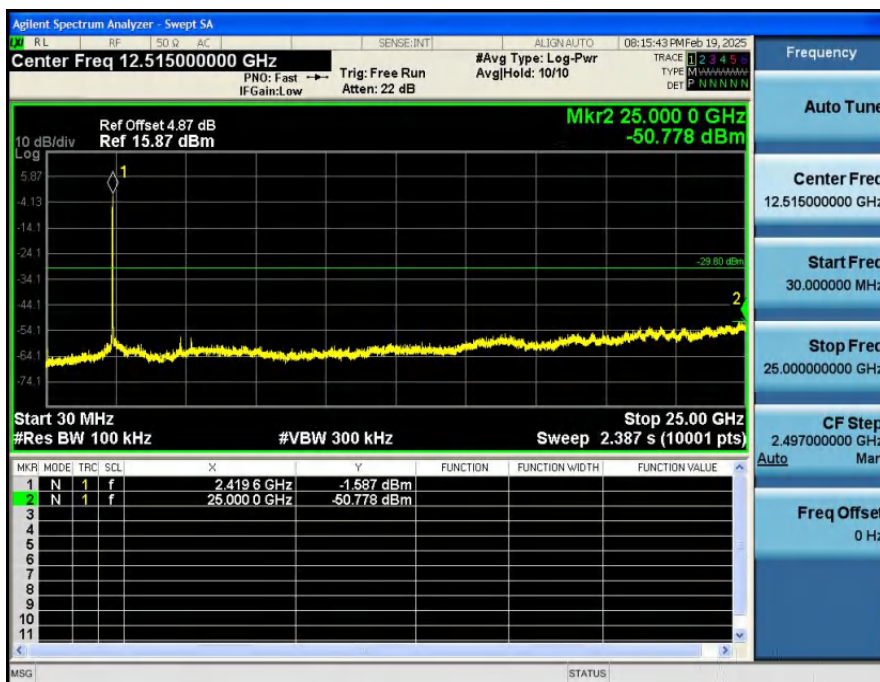


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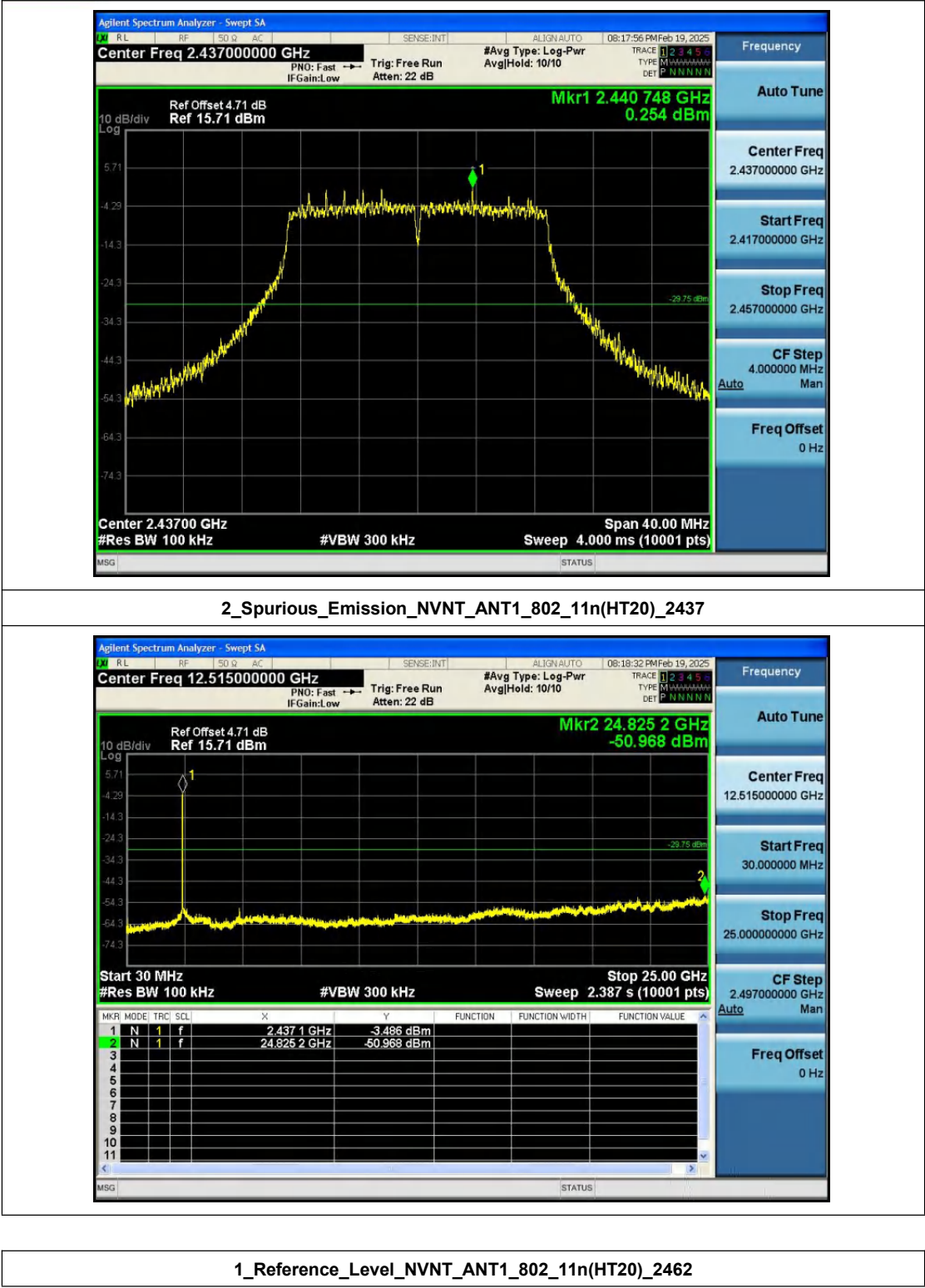


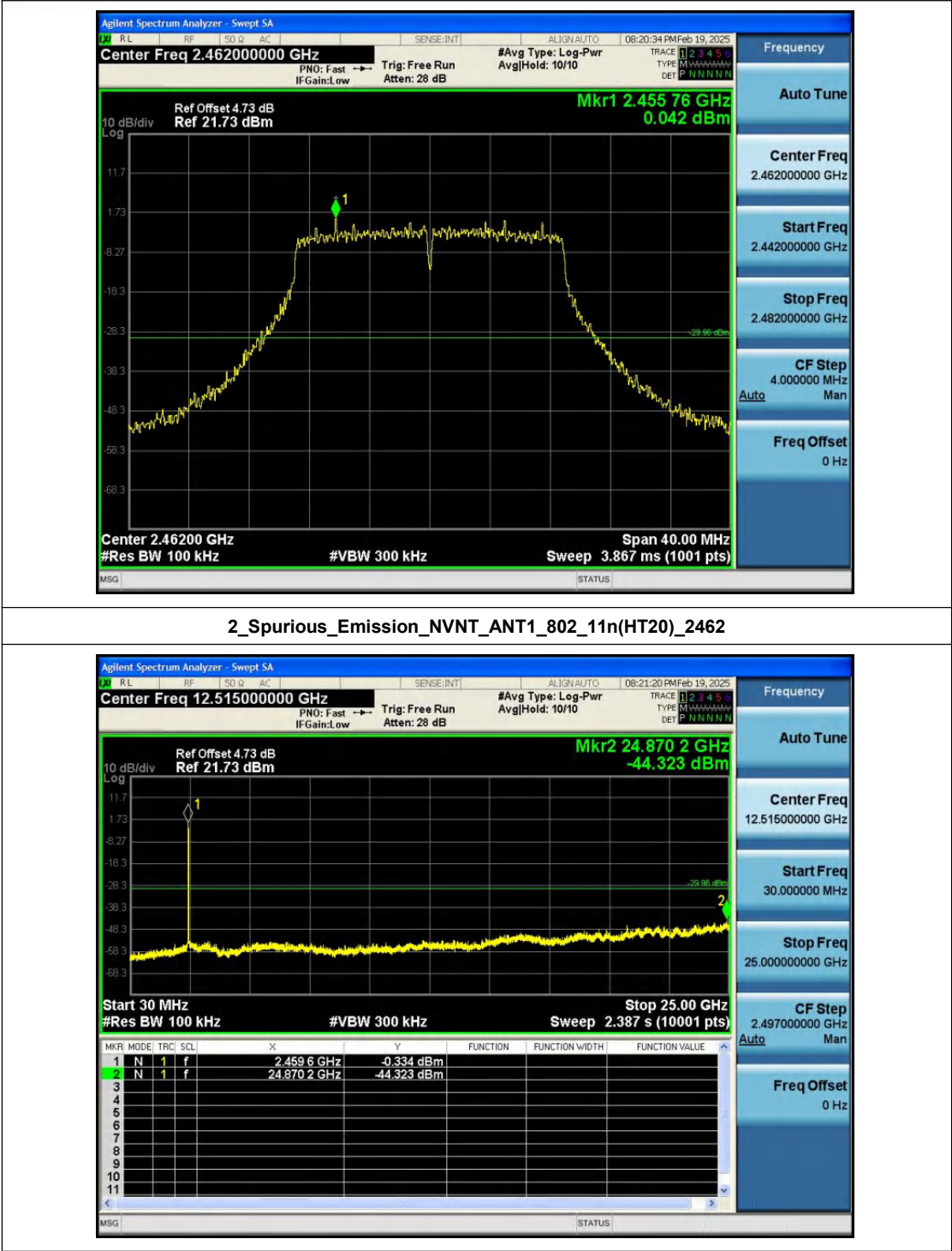


2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2412



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2437





---END---