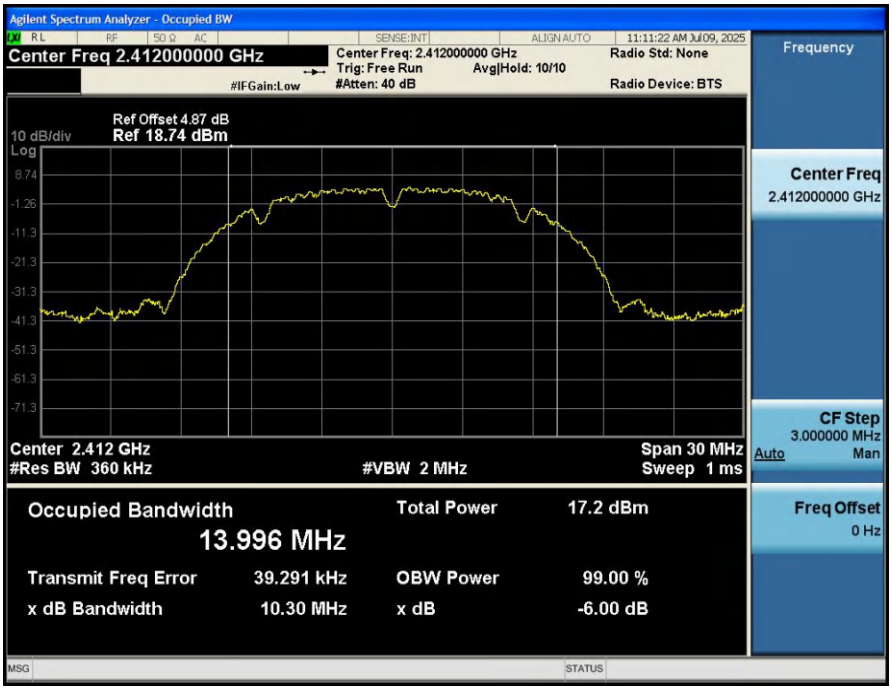
Appendix Test Data

Report No.:	1813C40251312502	Test Sample No.:	1-2-2
Start Test Date:	2024-12-23	Finish Test Date:	2025-07-10
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	25.5℃	Relative Humidity:	47%
Pressure:	101kPa		

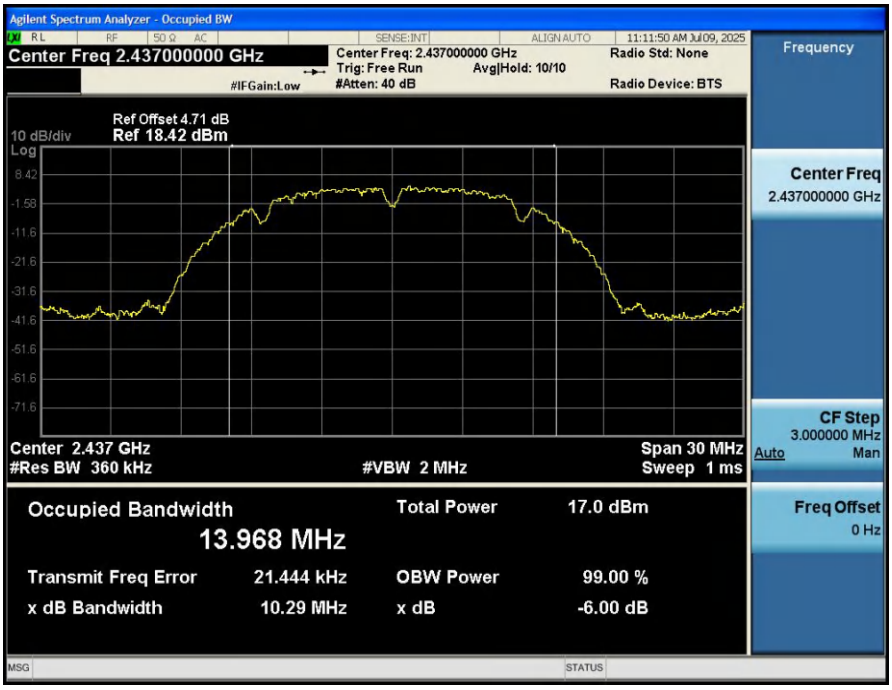
Appendix A: -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	10.30	500	Pass
NVNT	ANT1	802.11b	2437.00	10.29	500	Pass
NVNT	ANT1	802.11b	2462.00	10.31	500	Pass
NVNT	ANT1	802.11g	2412.00	14.13	500	Pass
NVNT	ANT1	802.11g	2437.00	14.06	500	Pass
NVNT	ANT1	802.11g	2462.00	14.11	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.80	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.79	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.85	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	35.56	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.13	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.10	500	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	19.12	500	Pass
NVNT	ANT1	802.11ax(HE20)	2437.00	19.09	500	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	19.11	500	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	33.63	500	Pass
NVNT	ANT1	802.11ax(HE40)	2437.00	27.20	500	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	27.04	500	Pass

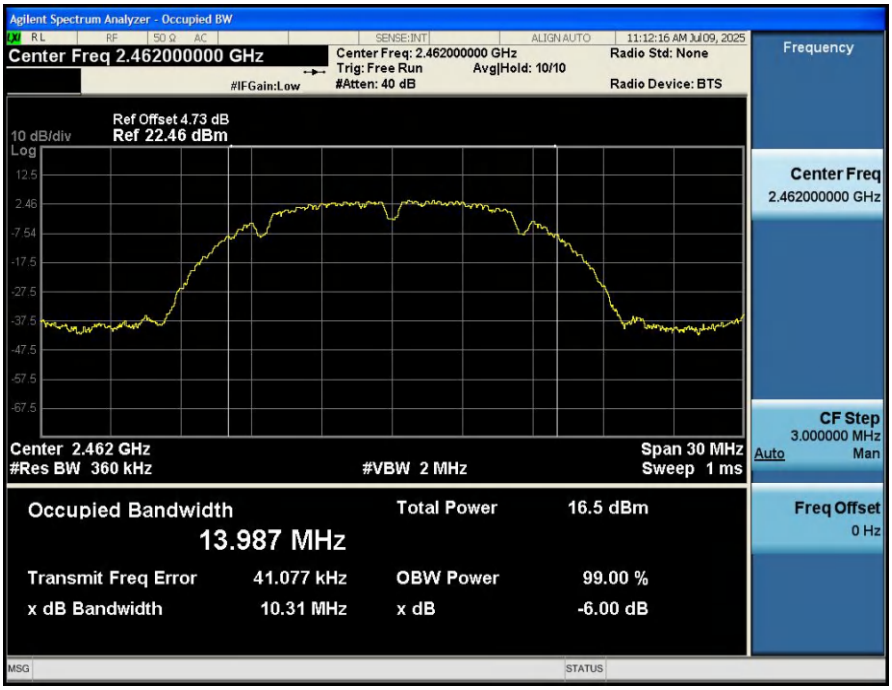
-6dB_Bandwidth_NVNT_ANT1_802_11b_2412



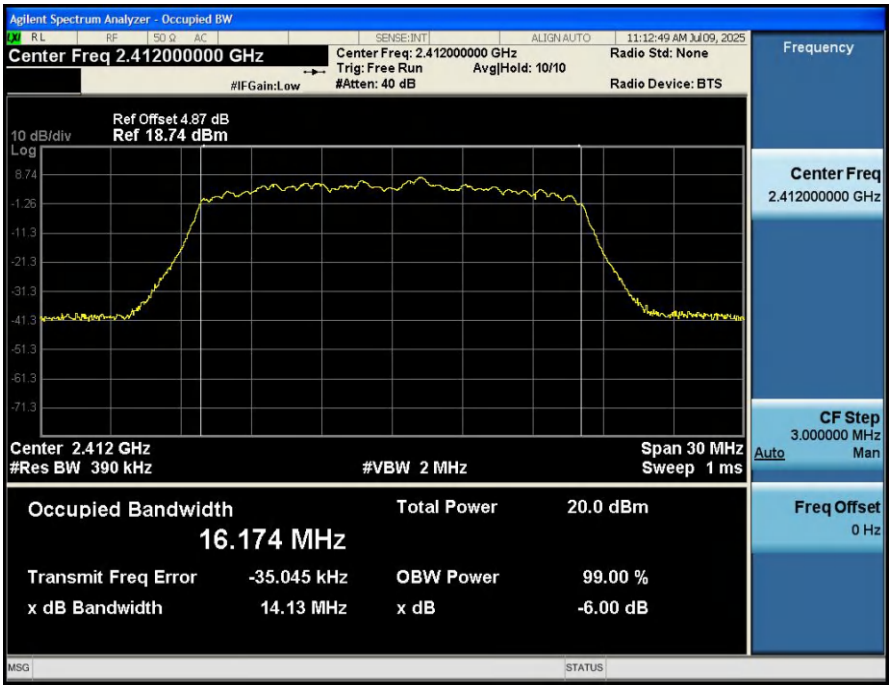
-6dB_Bandwidth_NVNT_ANT1_802_11b_2437



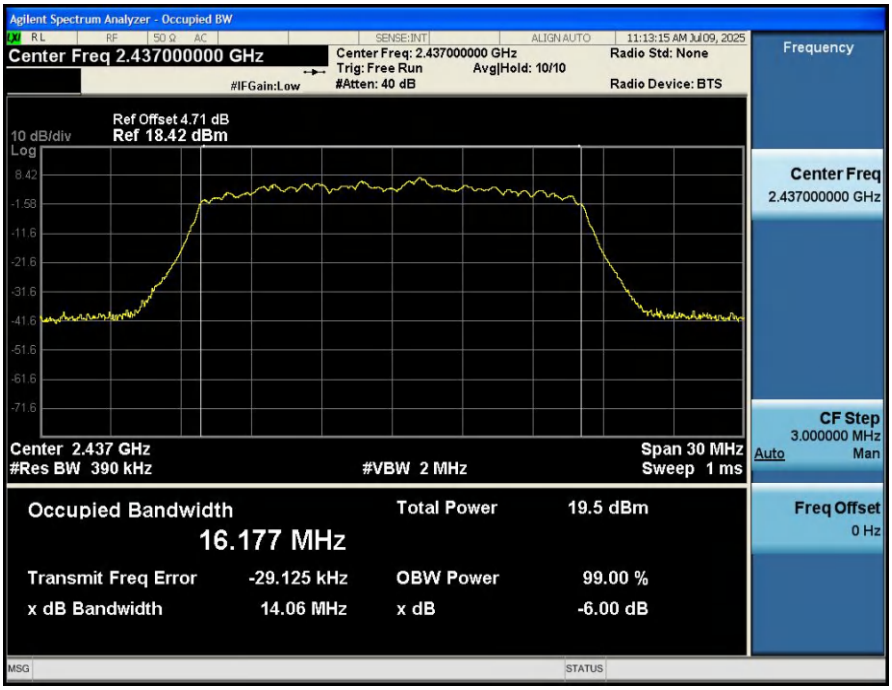
-6dB_Bandwidth_NVNT_ANT1_802_11b_2462



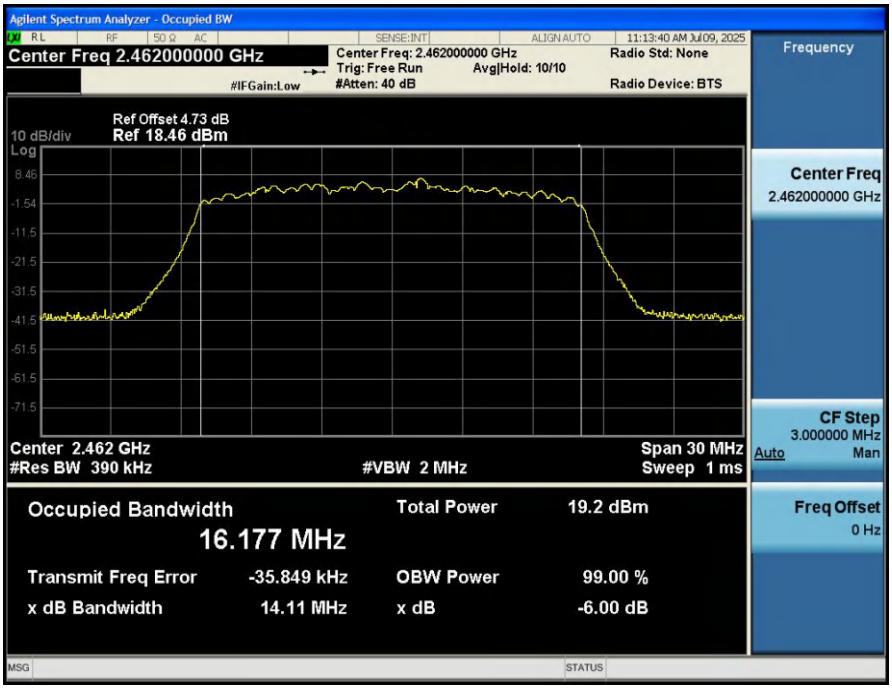
-6dB_Bandwidth_NVNT_ANT1_802_11g_2412



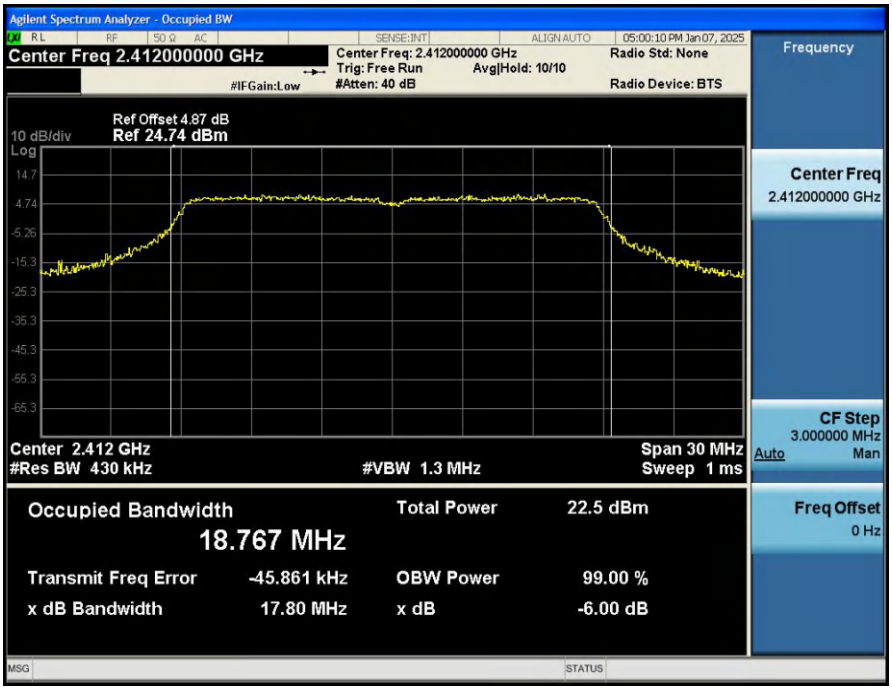
-6dB_Bandwidth_NVNT_ANT1_802_11g_2437



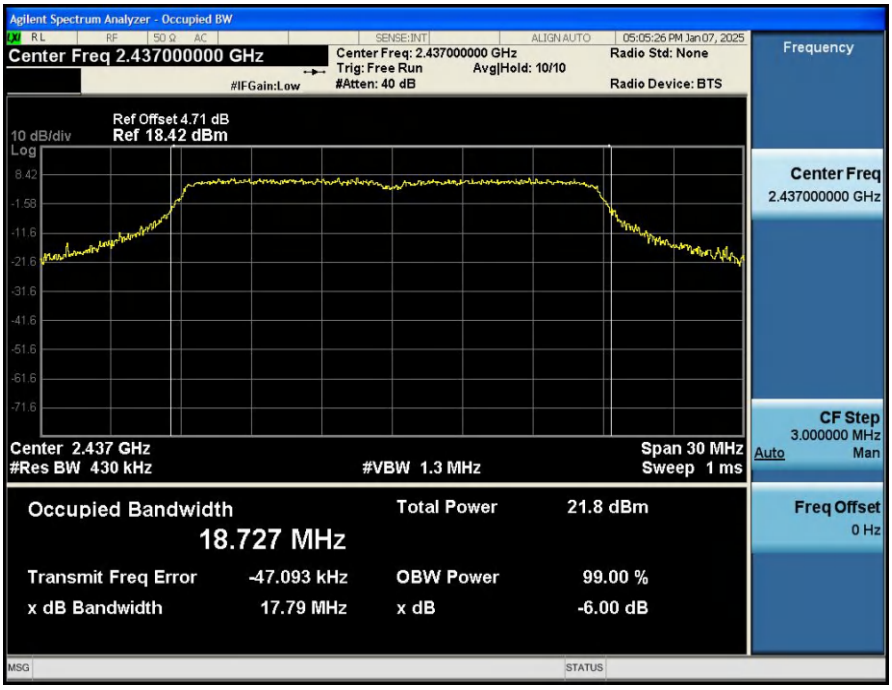
-6dB_Bandwidth_NVNT_ANT1_802_11g_2462



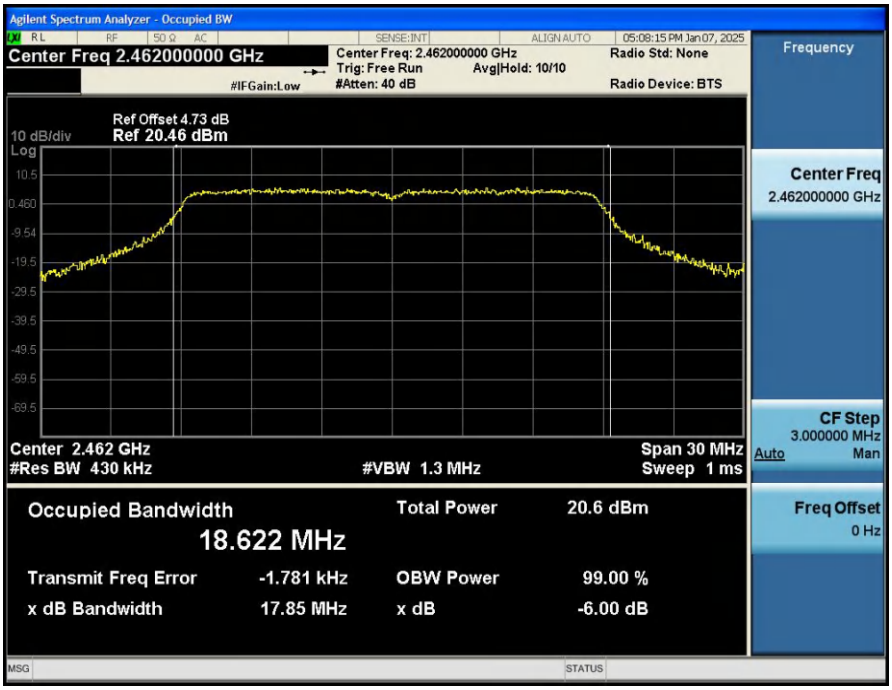
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



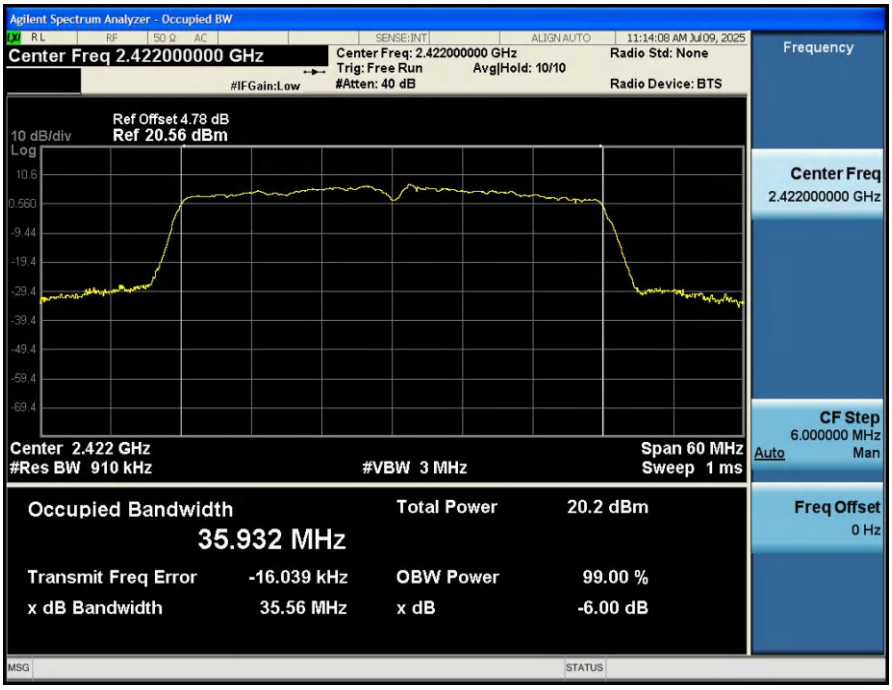
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



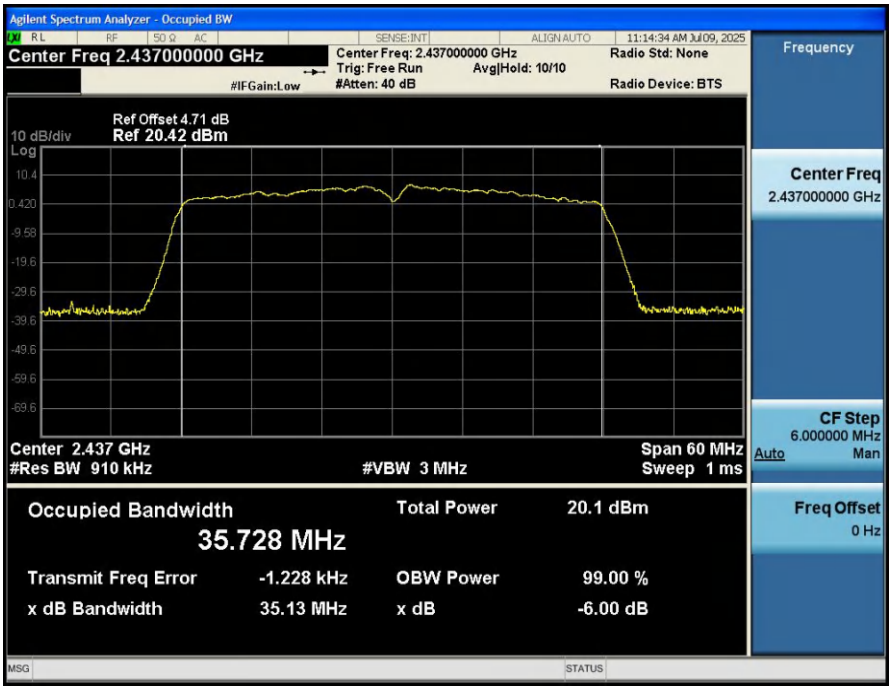
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



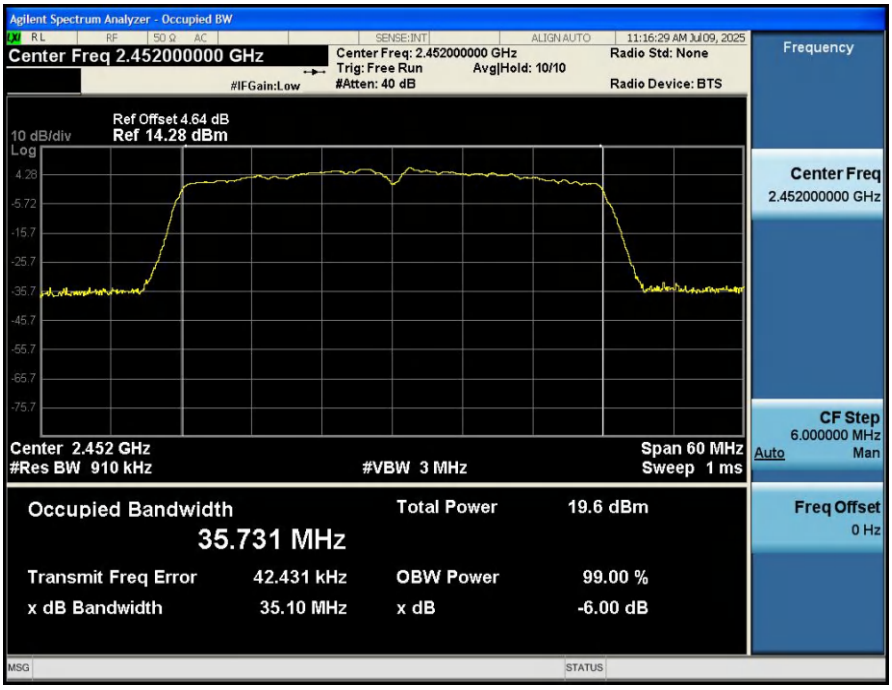
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



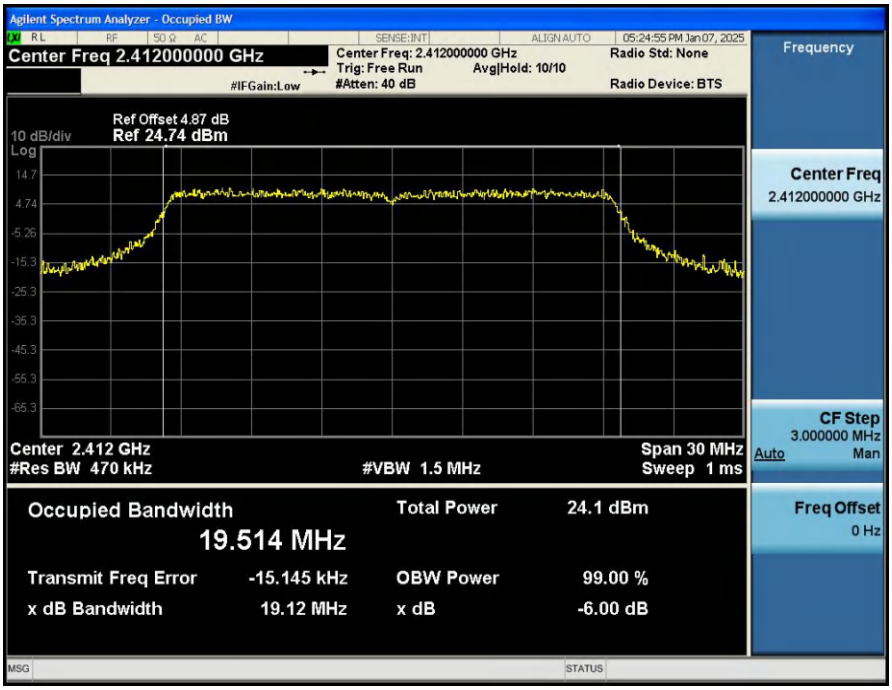
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437



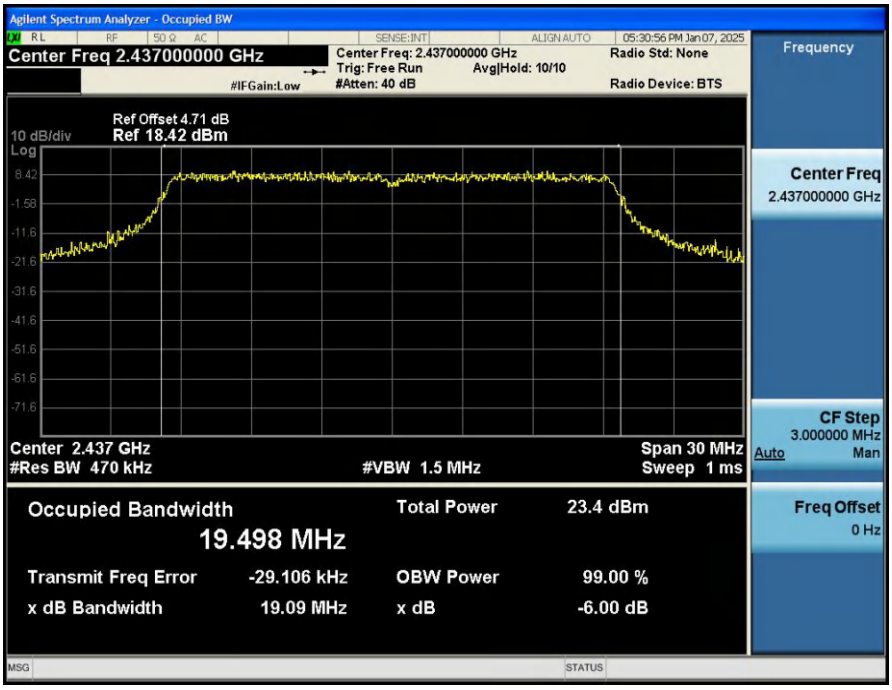
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



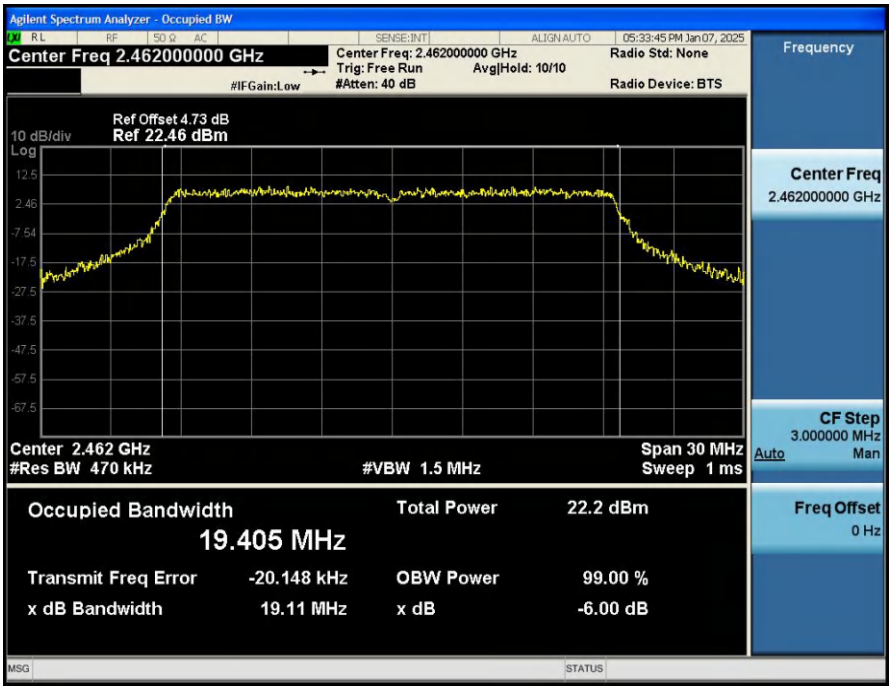
-6dB_Bandwidth_NVNT_ANT1_802_11ax(HE20)_2412



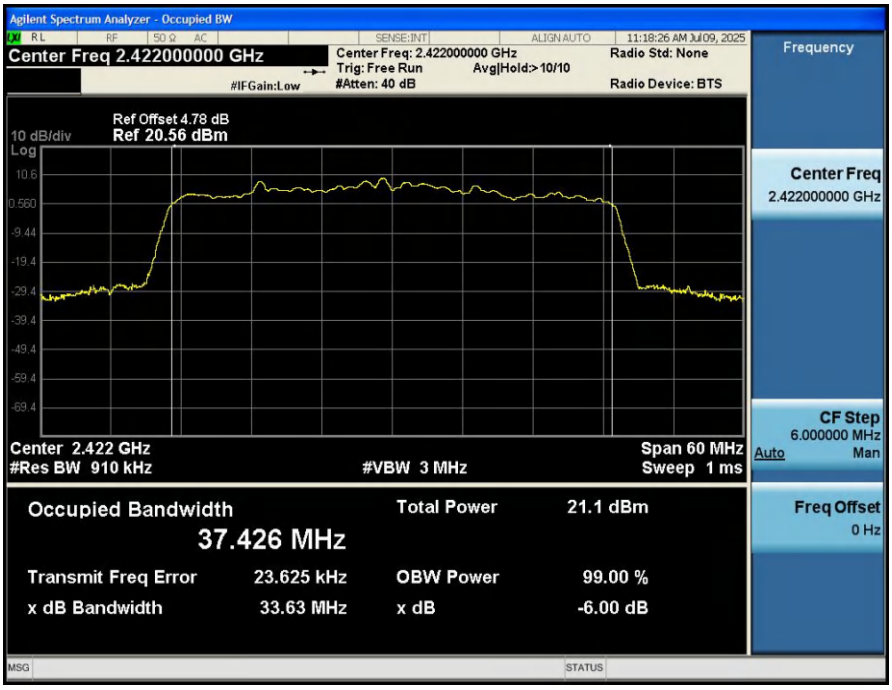
-6dB_Bandwidth_NVNT_ANT1_802_11ax(HE20)_2437



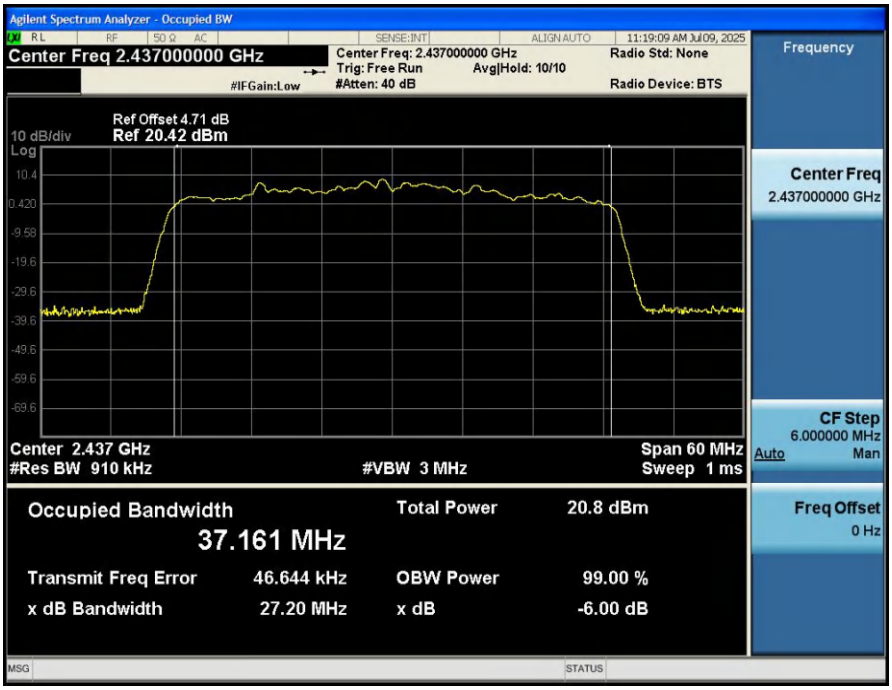
-6dB_Bandwidth_NVNT_ANT1_802_11ax(HE20)_2462



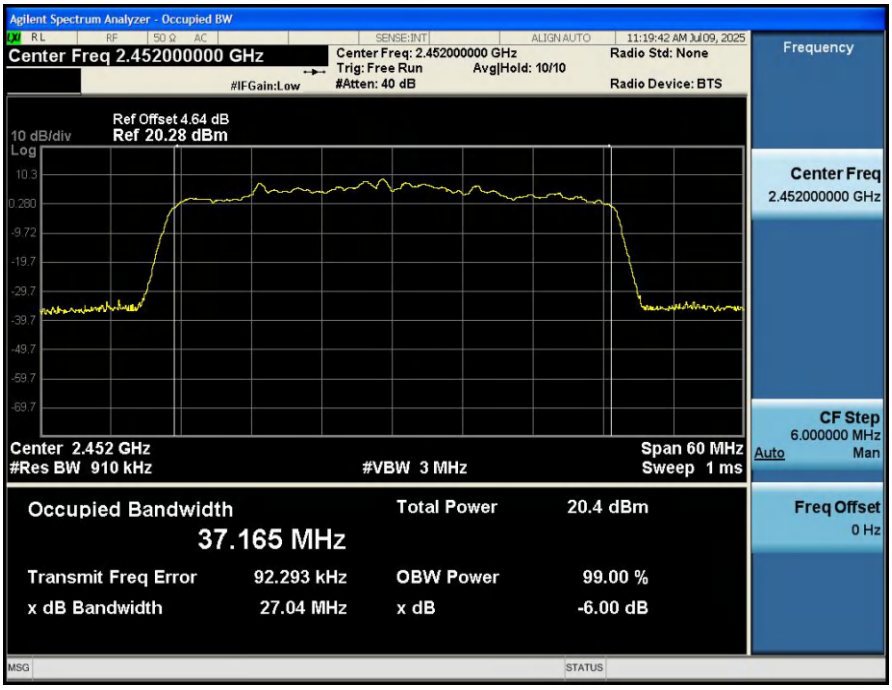
-6dB_Bandwidth_NVNT_ANT1_802_11ax(HE40)_2422



-6dB_Bandwidth_NVNT_ANT1_802_11ax(HE40)_2437



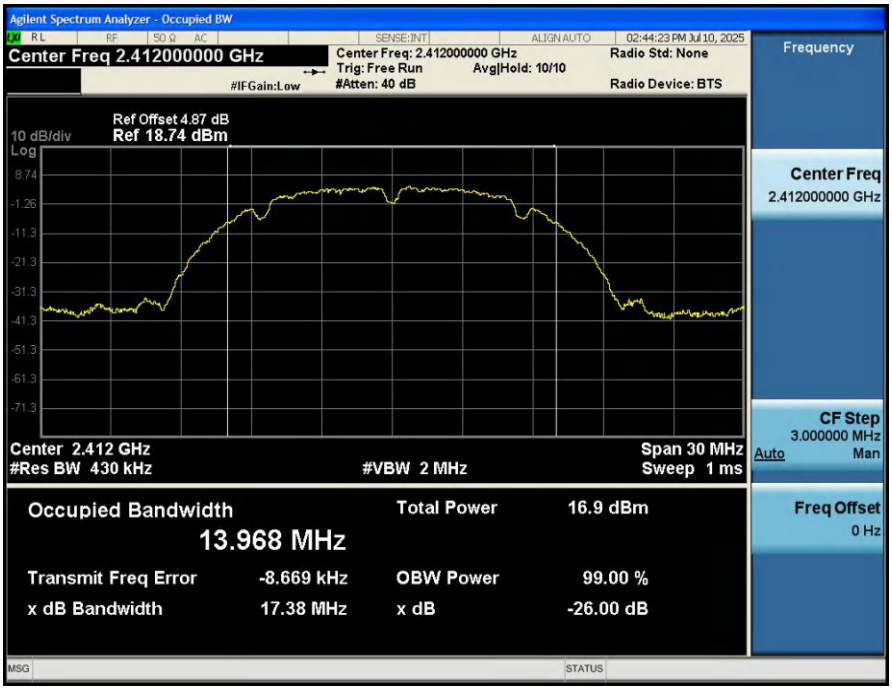
-6dB_Bandwidth_NVNT_ANT1_802_11ax(HE40)_2452



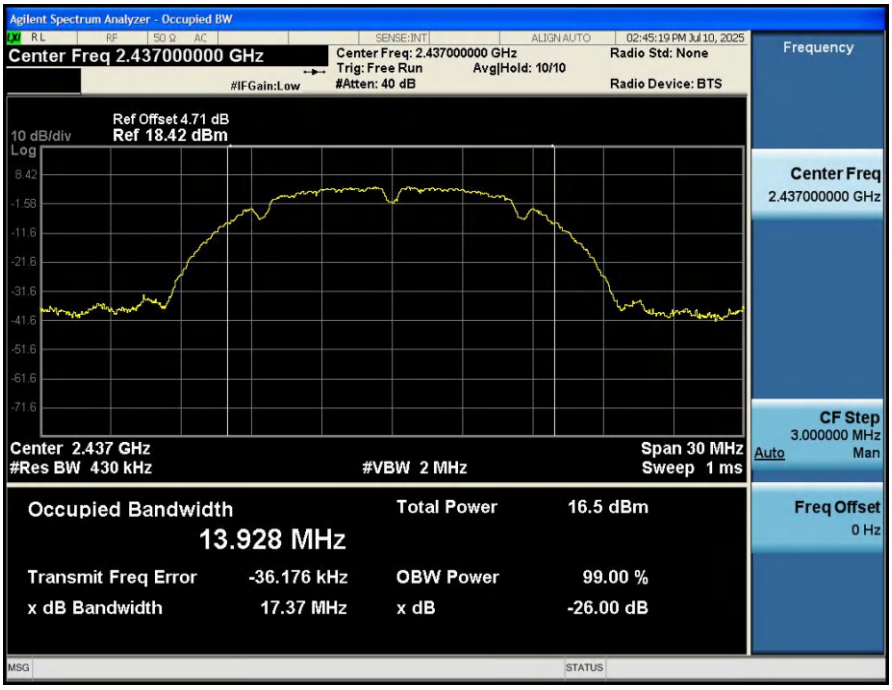
Appendix B: 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%%BW(MHz)
NVNT	ANT1	802.11b	2412.00	13.968
NVNT	ANT1	802.11b	2437.00	13.928
NVNT	ANT1	802.11b	2462.00	13.924
NVNT	ANT1	802.11g	2412.00	16.207
NVNT	ANT1	802.11g	2437.00	16.187
NVNT	ANT1	802.11g	2462.00	16.179
NVNT	ANT1	802.11n(HT20)	2412.00	17.282
NVNT	ANT1	802.11n(HT20)	2437.00	17.269
NVNT	ANT1	802.11n(HT20)	2462.00	17.263
NVNT	ANT1	802.11n(HT40)	2422.00	35.847
NVNT	ANT1	802.11n(HT40)	2437.00	35.660
NVNT	ANT1	802.11n(HT40)	2452.00	35.793
NVNT	ANT1	802.11ax(HE20)	2412.00	18.589
NVNT	ANT1	802.11ax(HE20)	2437.00	18.571
NVNT	ANT1	802.11ax(HE20)	2462.00	18.578
NVNT	ANT1	802.11ax(HE40)	2422.00	37.325
NVNT	ANT1	802.11ax(HE40)	2437.00	37.072
NVNT	ANT1	802.11ax(HE40)	2452.00	37.258

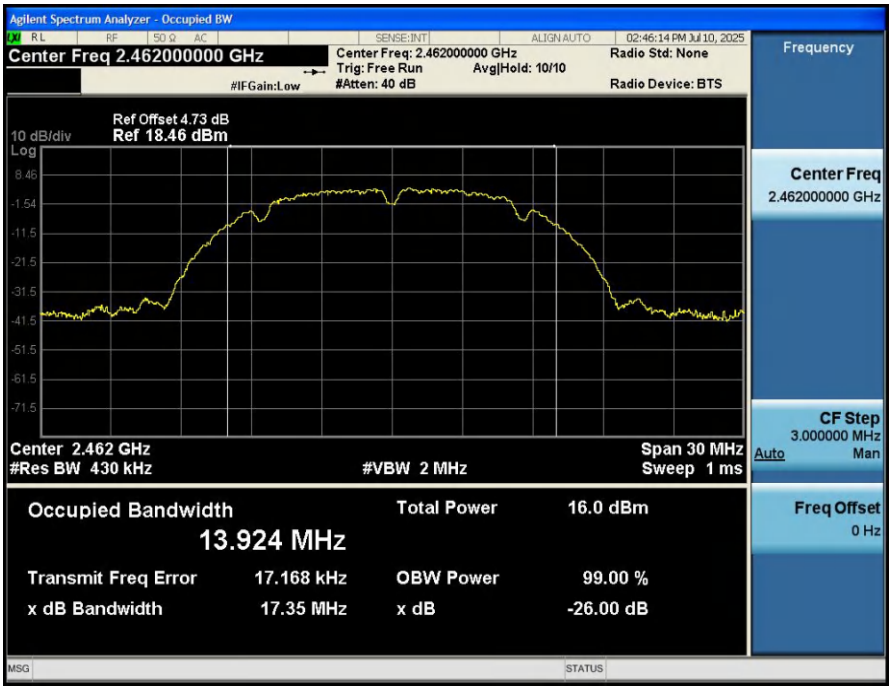
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2412



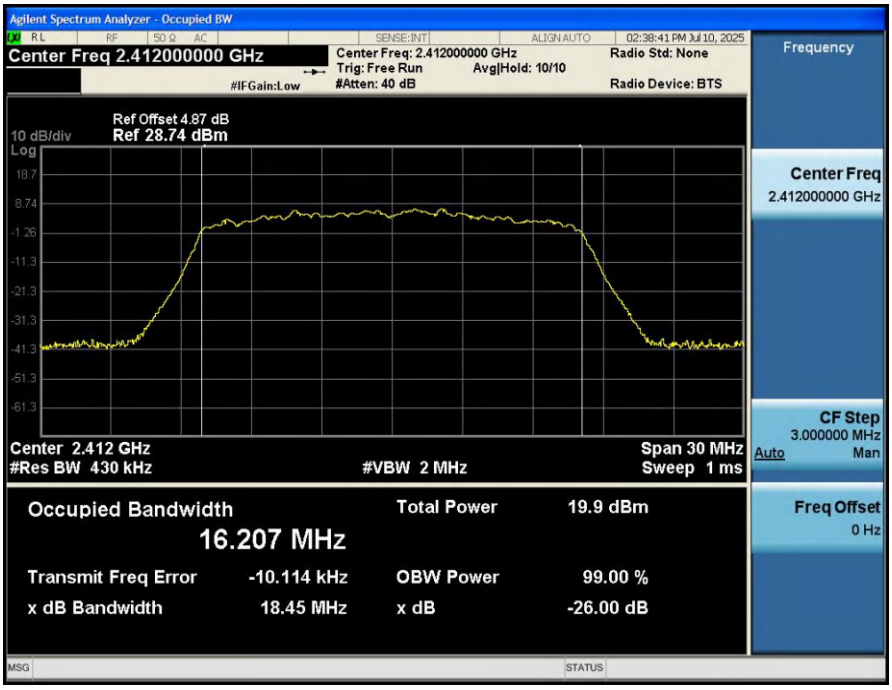
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2437



99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2462



99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2412



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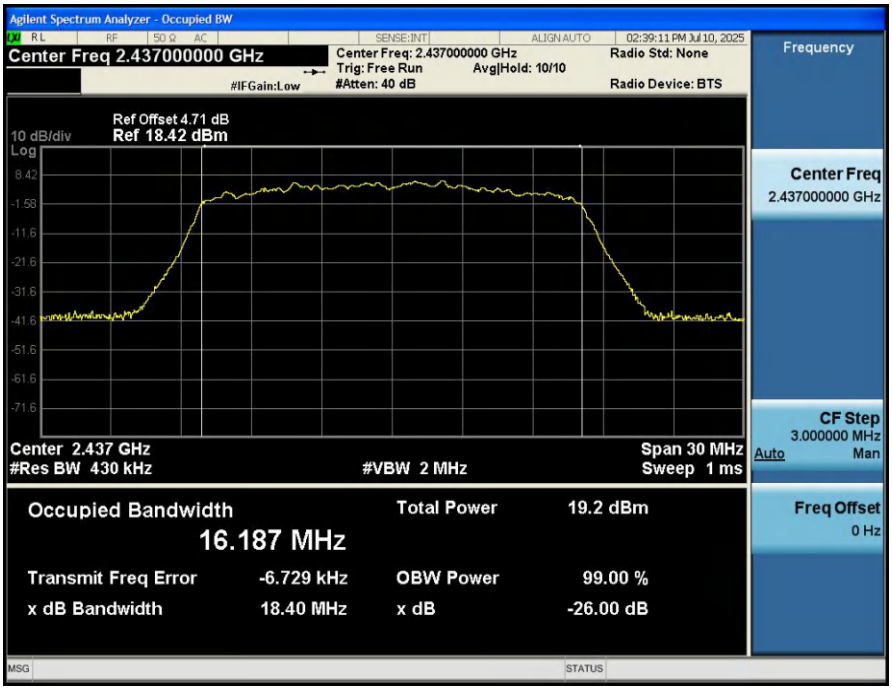
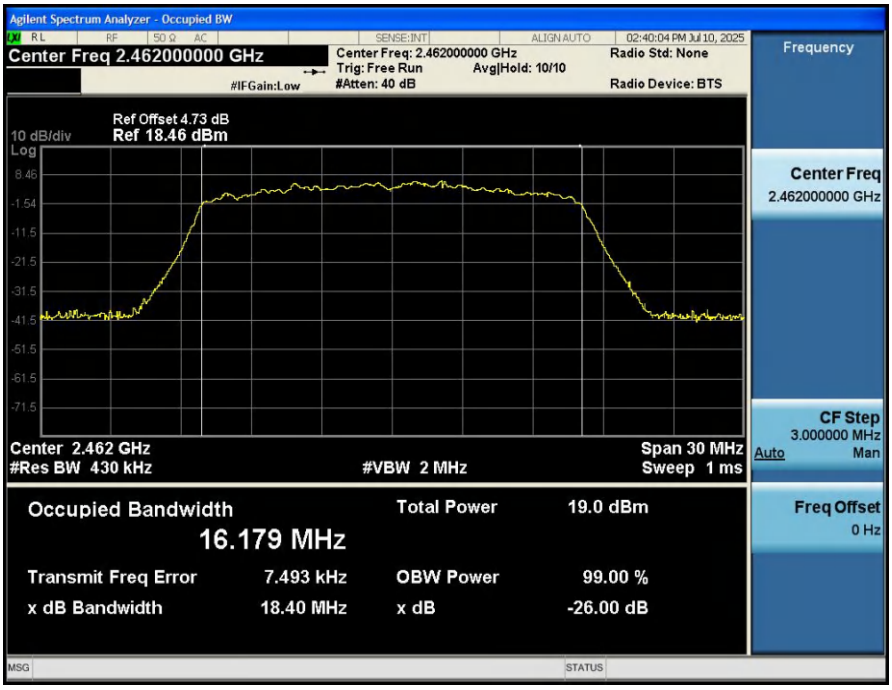
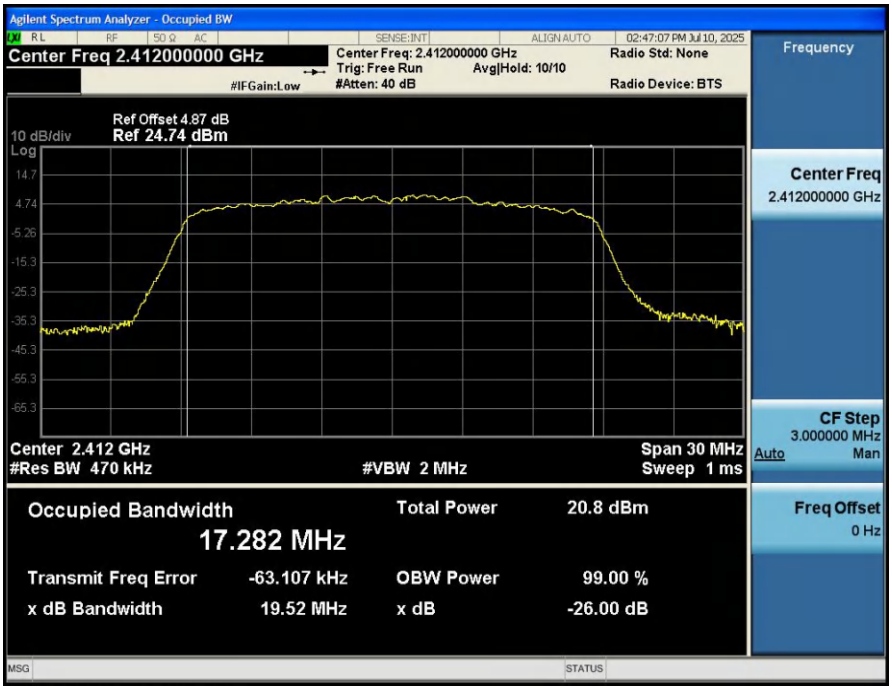


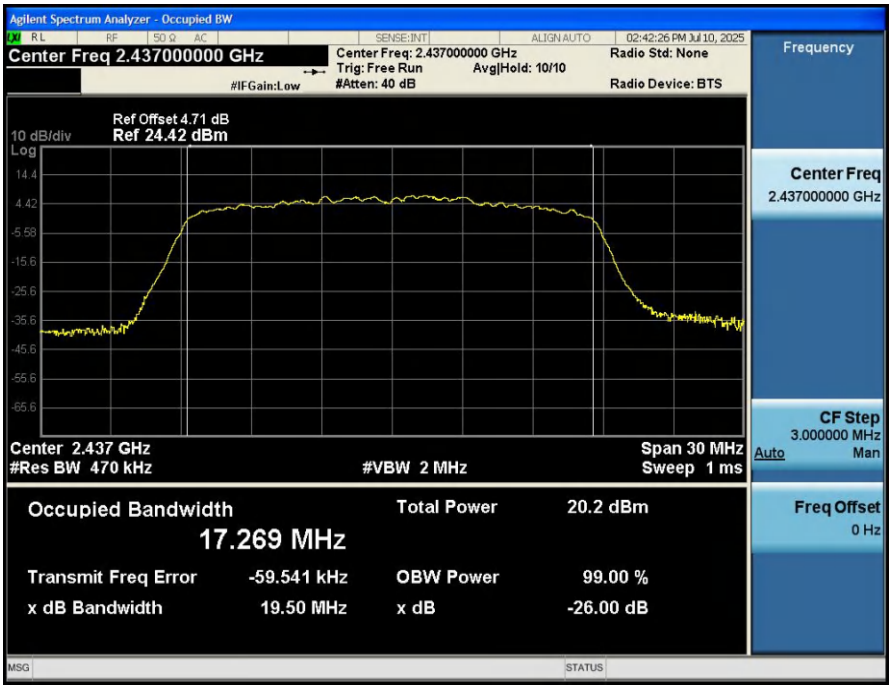
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2462



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



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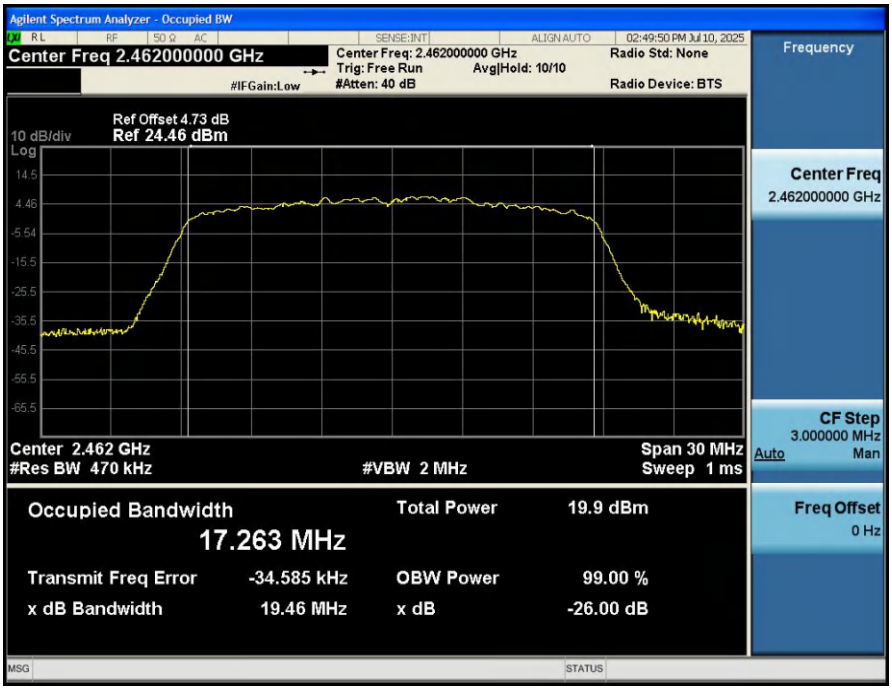
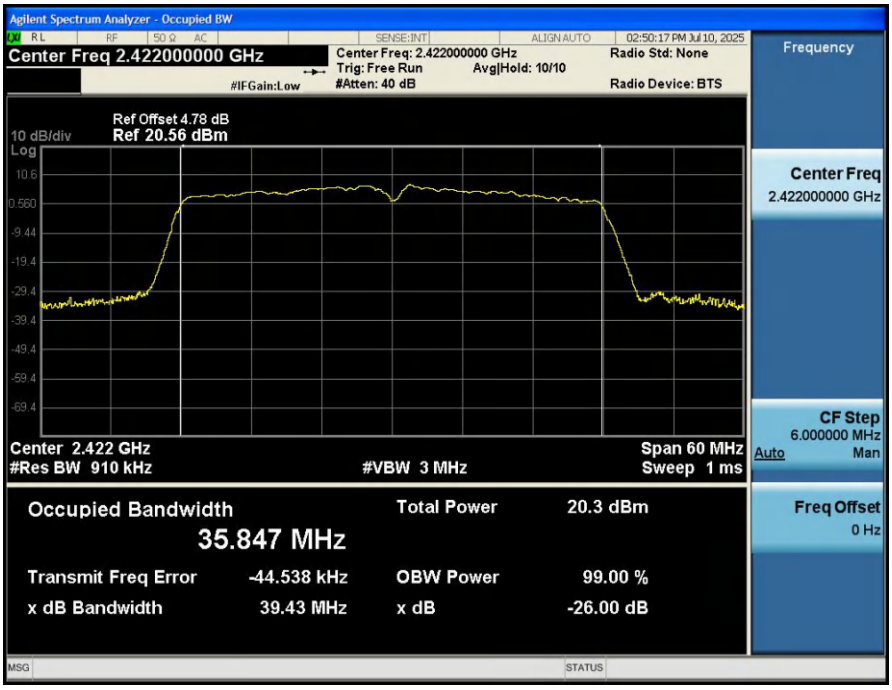
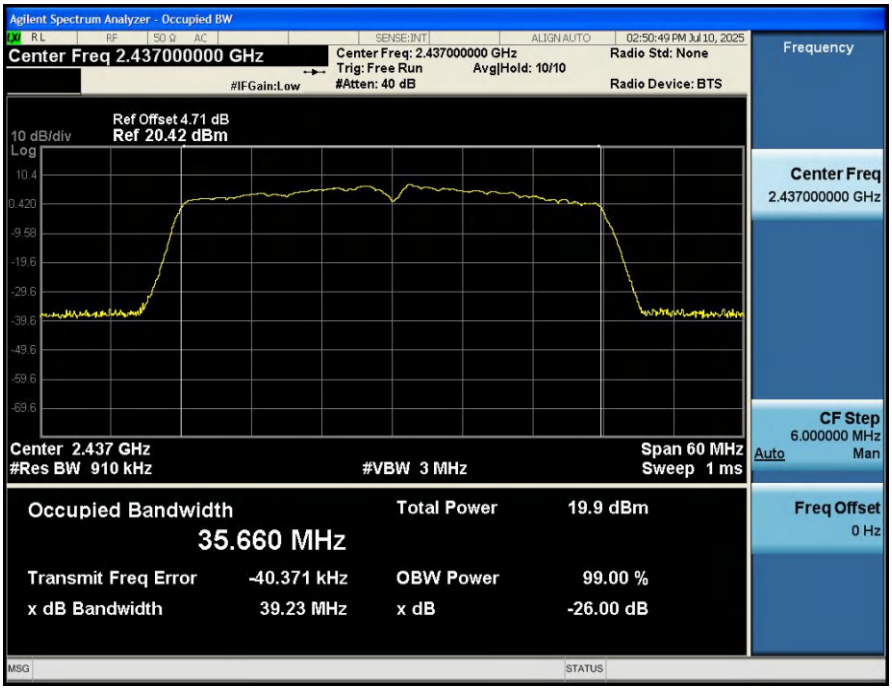


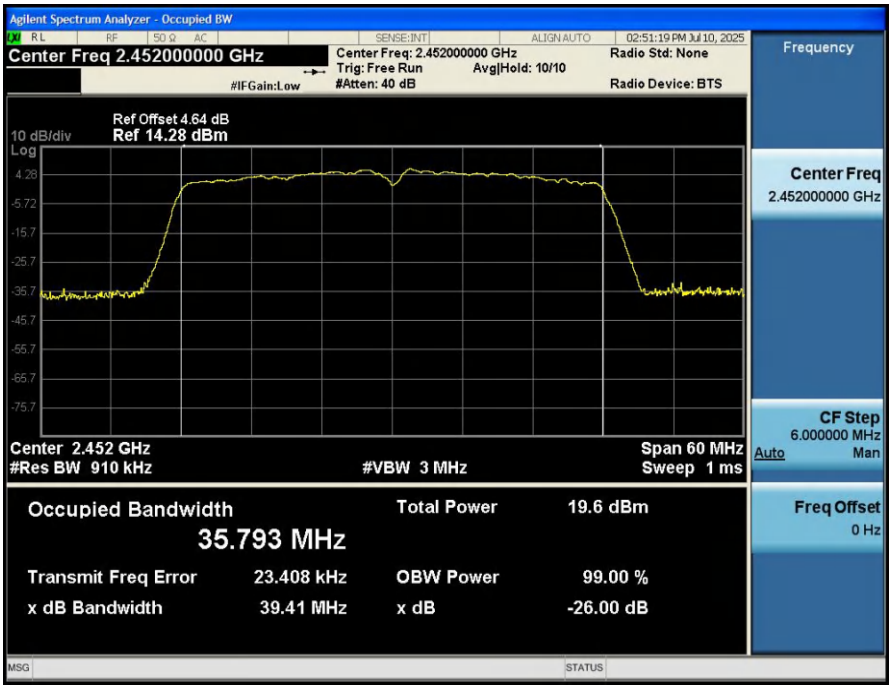
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



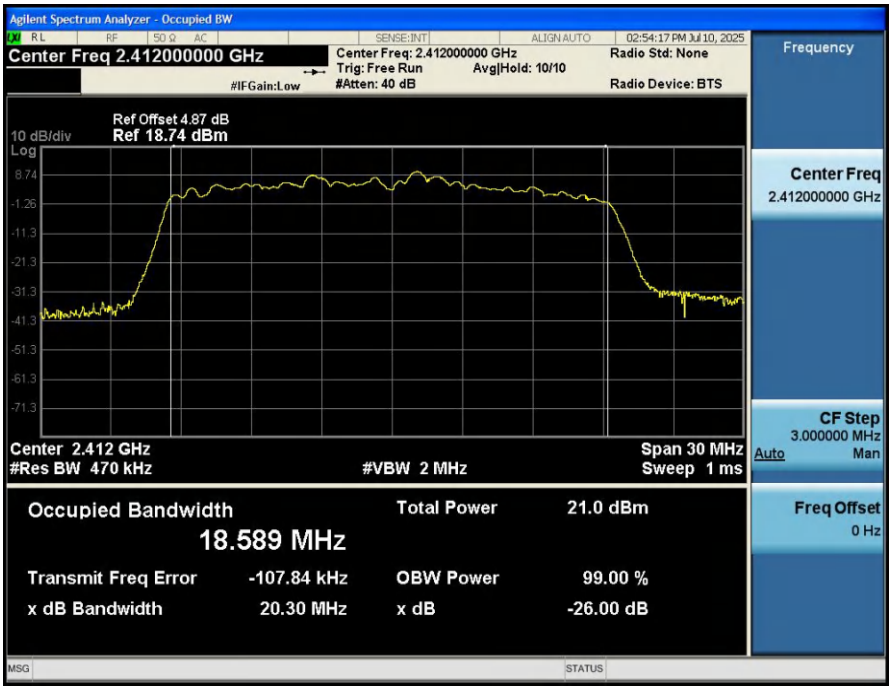
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437



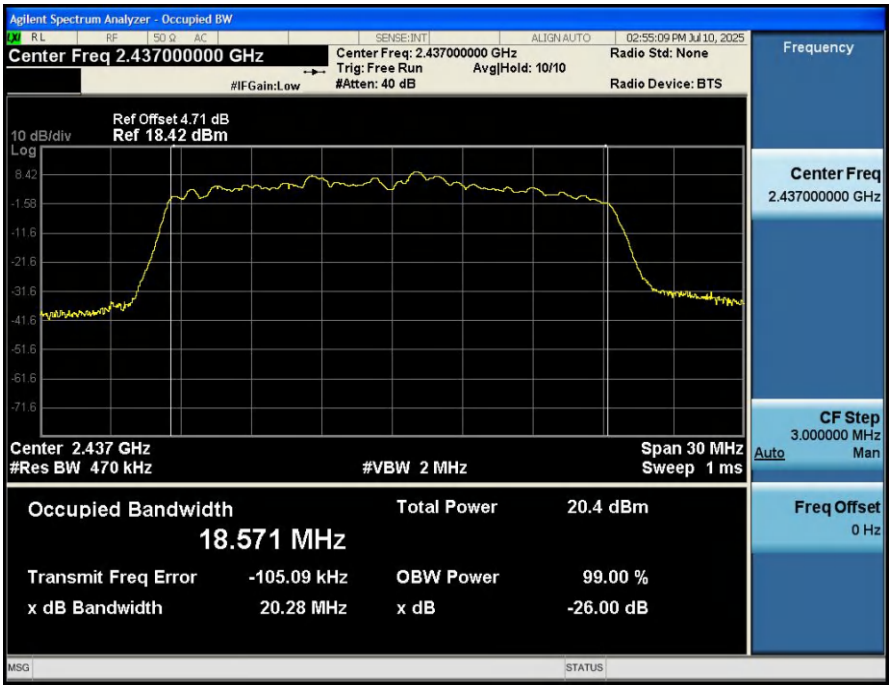
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



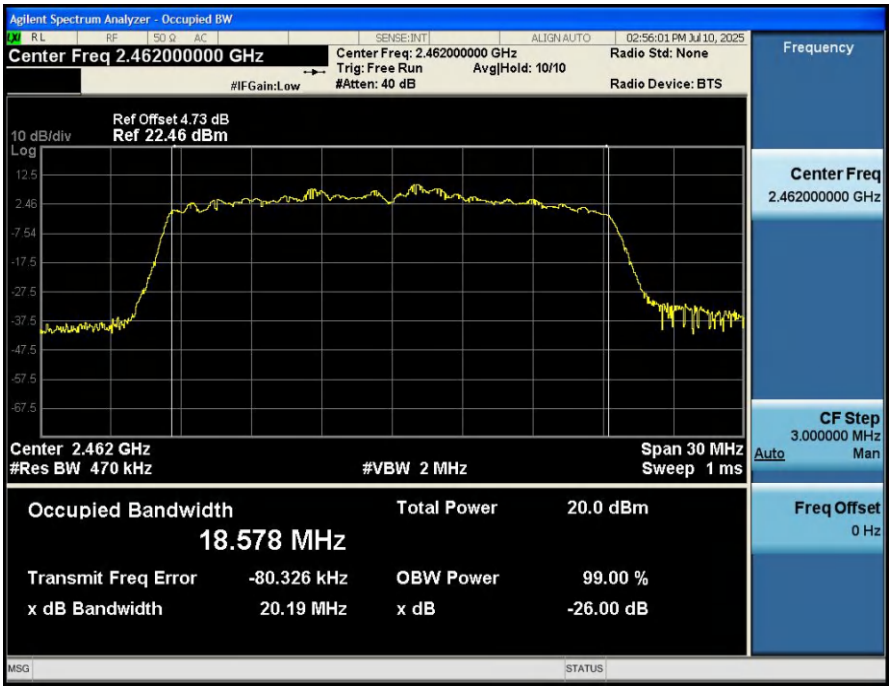
99%_Occupied_Bandwidth_NVNT_ANT1_802_11ax(HE20)_2412



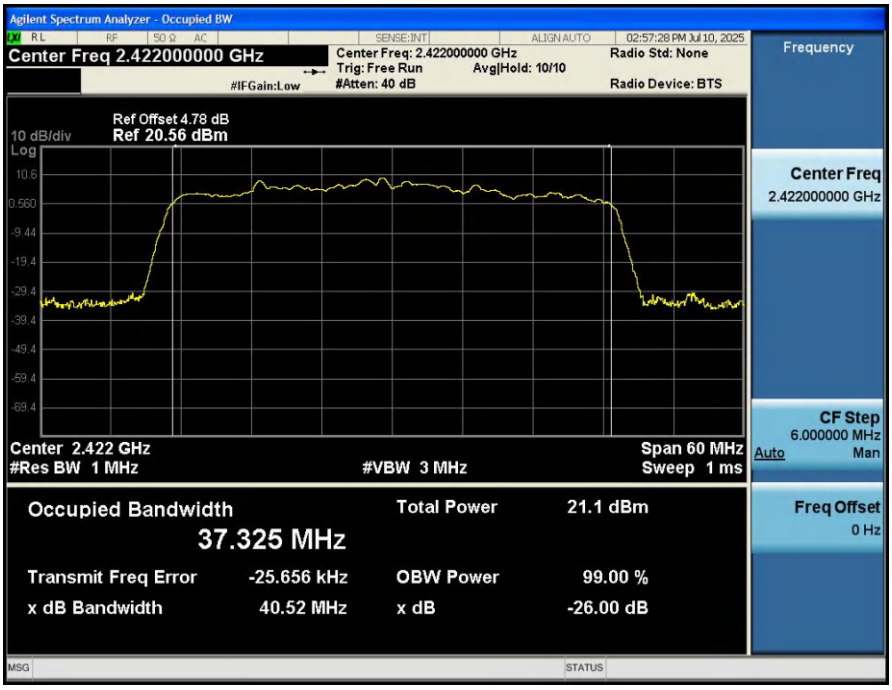
99%_Occupied_Bandwidth_NVNT_ANT1_802_11ax(HE20)_2437



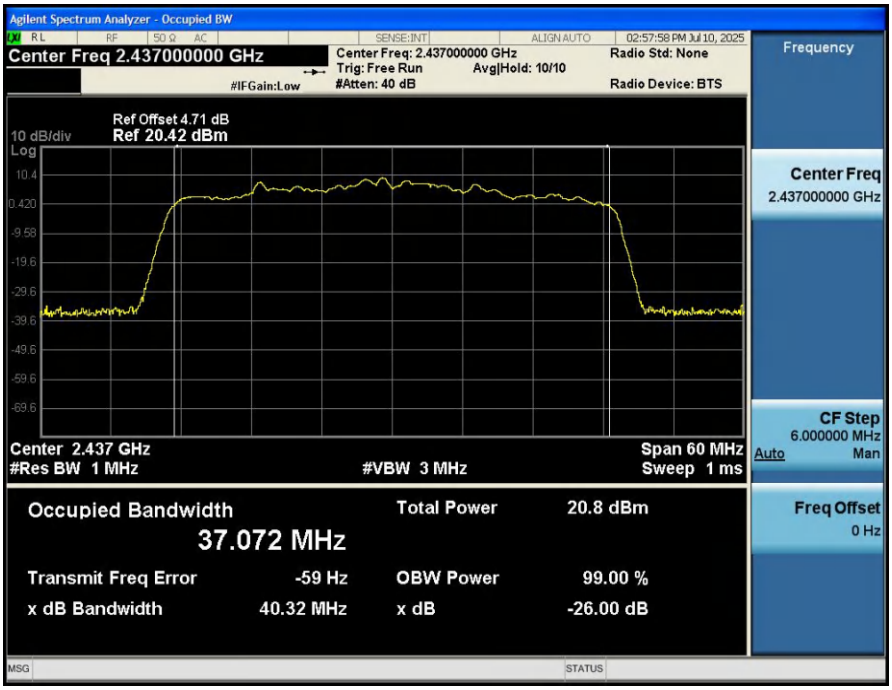
99%_Occupied_Bandwidth_NVNT_ANT1_802_11ax(HE20)_2462



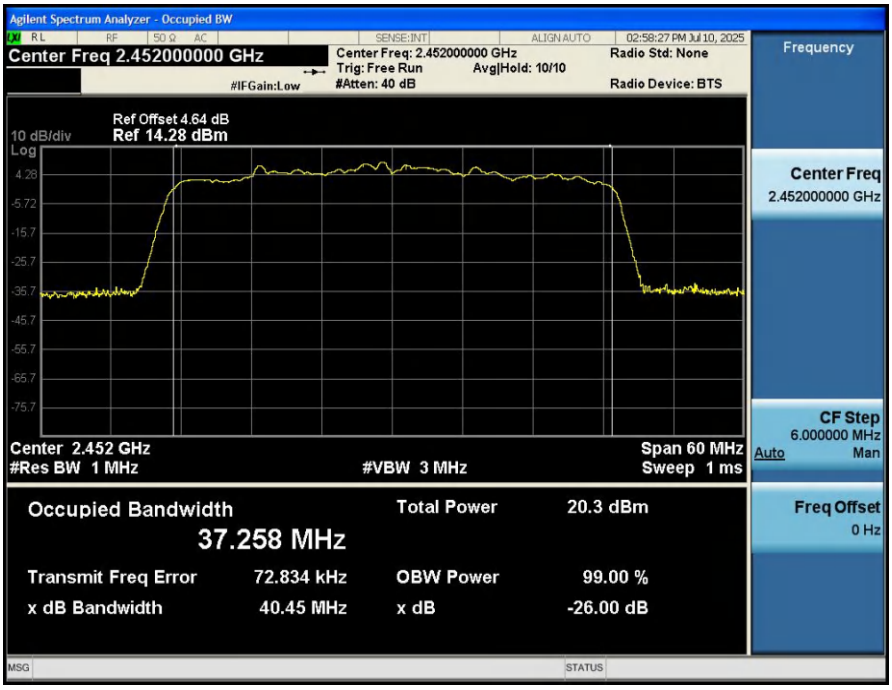
99%_Occupied_Bandwidth_NVNT_ANT1_802_11ax(HE40)_2422



99%_Occupied_Bandwidth_NVNT_ANT1_802_11ax(HE40)_2437



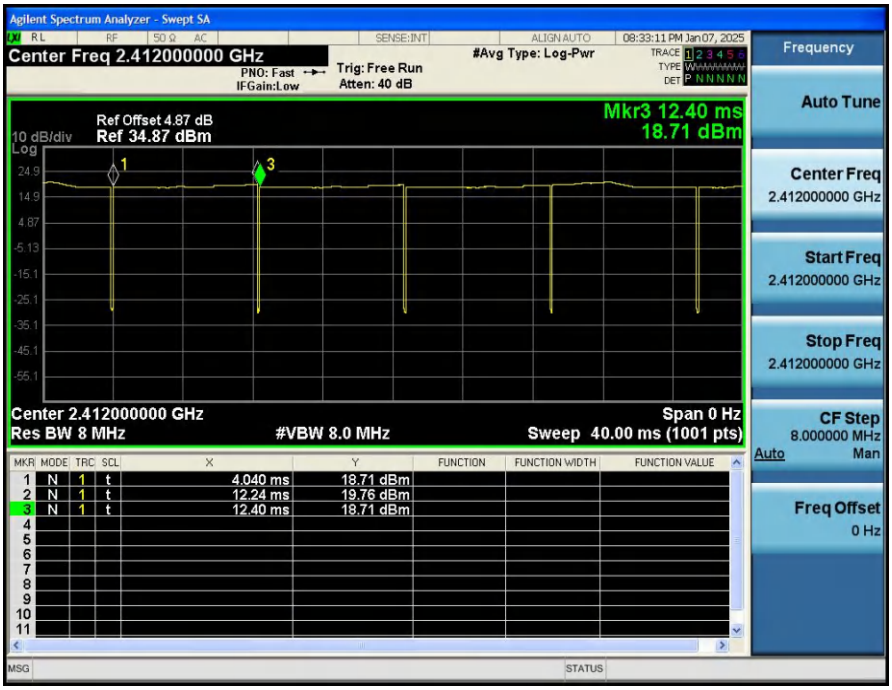
99%_Occupied_Bandwidth_NVNT_ANT1_802_11ax(HE40)_2452



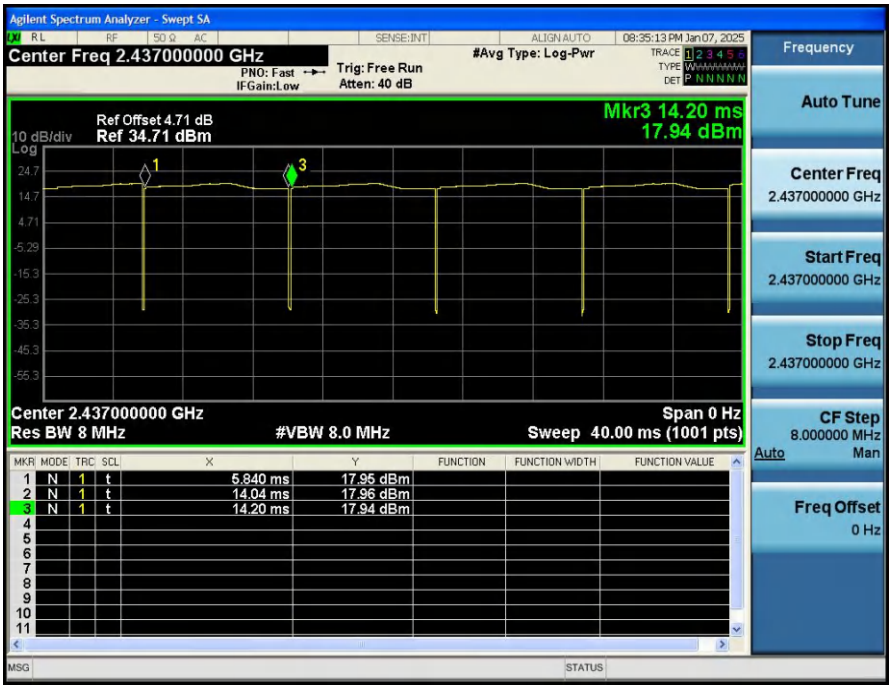
Appendix C: Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	98.56	0.00
NVNT	ANT1	802.11b	2437.00	98.56	0.00
NVNT	ANT1	802.11b	2462.00	98.10	0.00
NVNT	ANT1	802.11g	2412.00	90.79	0.42
NVNT	ANT1	802.11g	2437.00	89.61	0.48
NVNT	ANT1	802.11g	2462.00	89.61	0.48
NVNT	ANT1	802.11n(HT20)	2412.00	96.96	0.13
NVNT	ANT1	802.11n(HT20)	2437.00	97.34	0.12
NVNT	ANT1	802.11n(HT20)	2462.00	97.33	0.12
NVNT	ANT1	802.11n(HT40)	2422.00	93.94	0.27
NVNT	ANT1	802.11n(HT40)	2437.00	93.94	0.27
NVNT	ANT1	802.11n(HT40)	2452.00	93.94	0.27
NVNT	ANT1	802.11ax(HE20)	2412.00	97.02	0.13
NVNT	ANT1	802.11ax(HE20)	2437.00	97.03	0.13
NVNT	ANT1	802.11ax(HE20)	2462.00	96.61	0.15
NVNT	ANT1	802.11ax(HE40)	2422.00	94.35	0.25
NVNT	ANT1	802.11ax(HE40)	2437.00	93.55	0.29
NVNT	ANT1	802.11ax(HE40)	2452.00	94.35	0.25

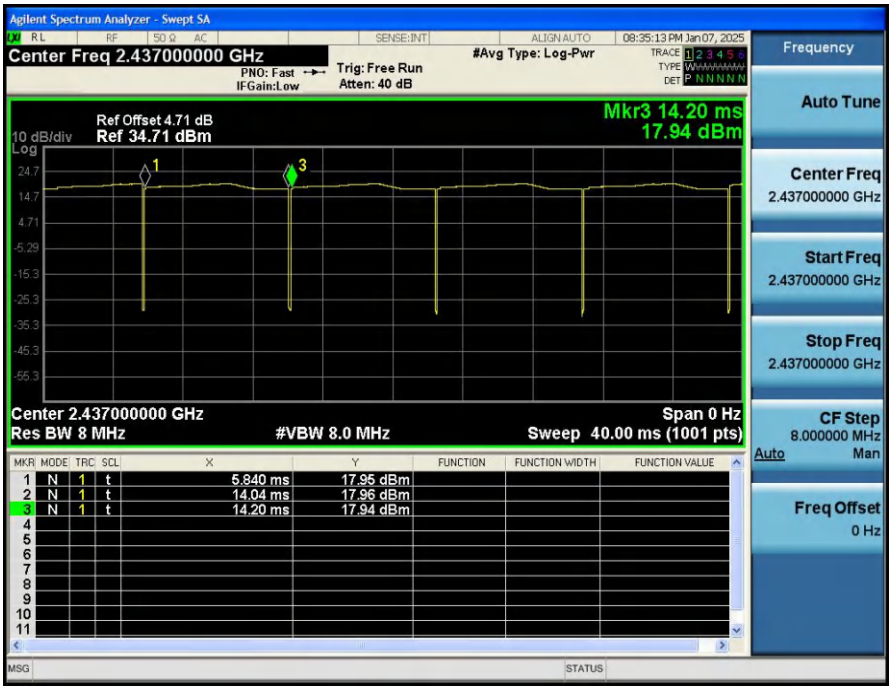
Duty_Cycle_NVNT_ANT1_802_11b_2412



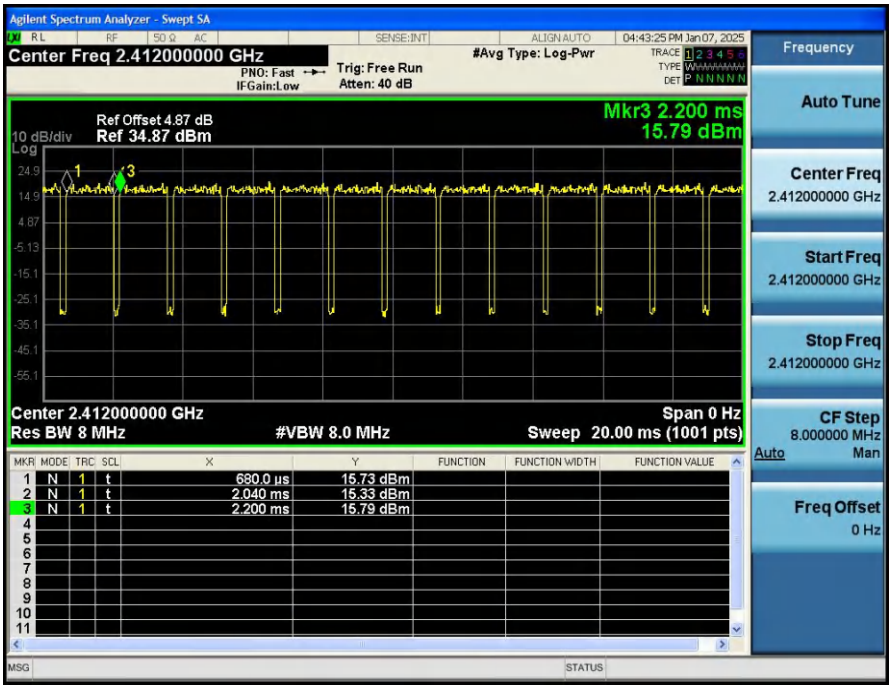
Duty_Cycle_NVNT_ANT1_802_11b_2437



Duty_Cycle_NVNT_ANT1_802_11b_2462



Duty_Cycle_NVNT_ANT1_802_11g_2412



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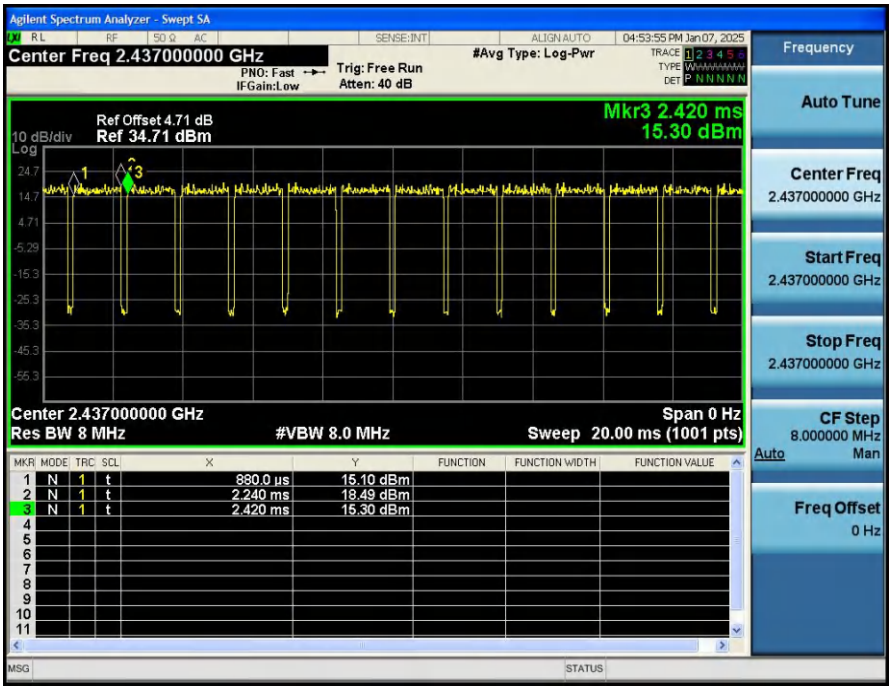
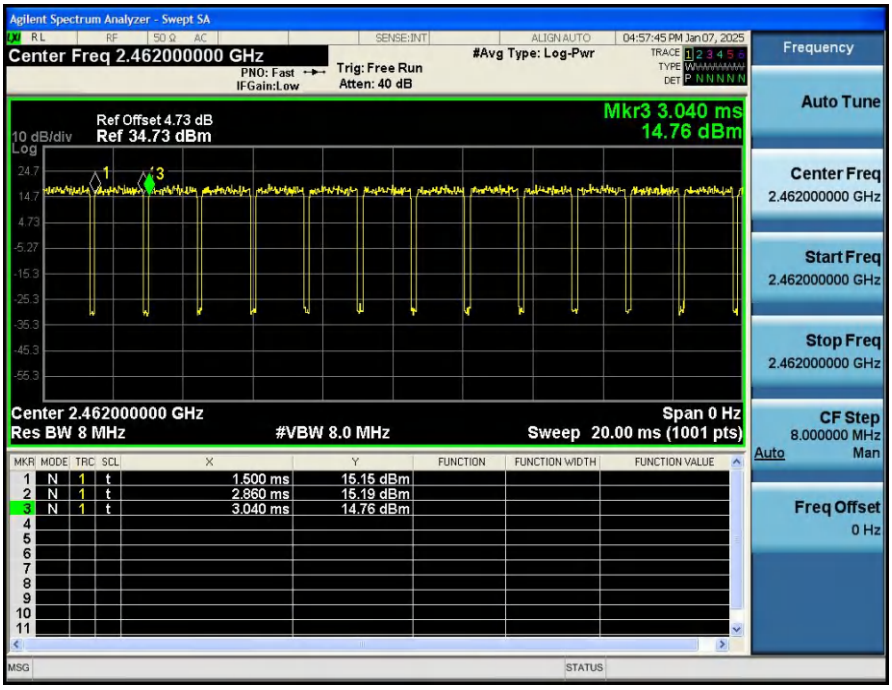
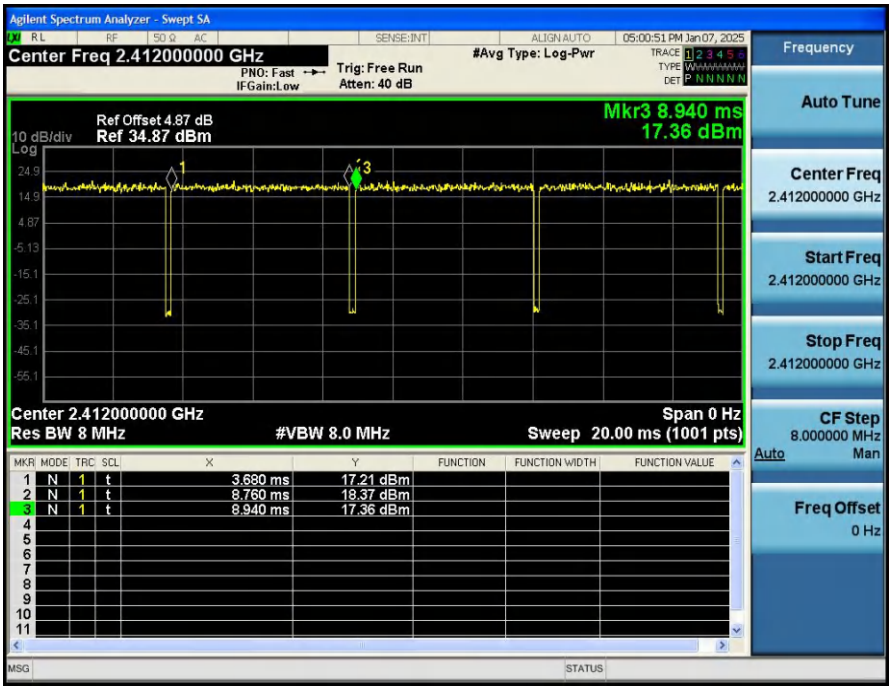


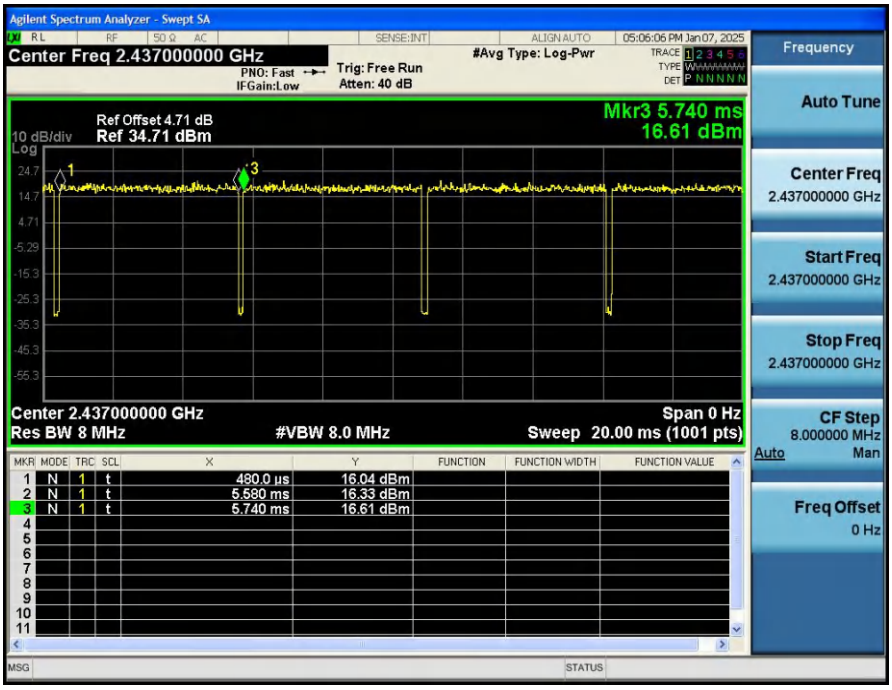
Duty_Cycle_NVNT_ANT1_802_11g_2462



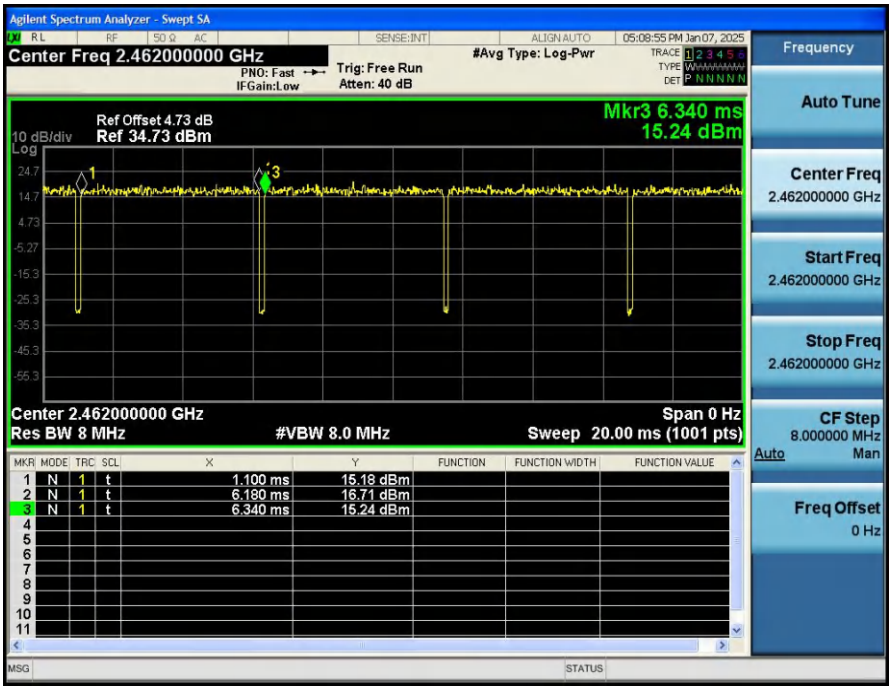
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



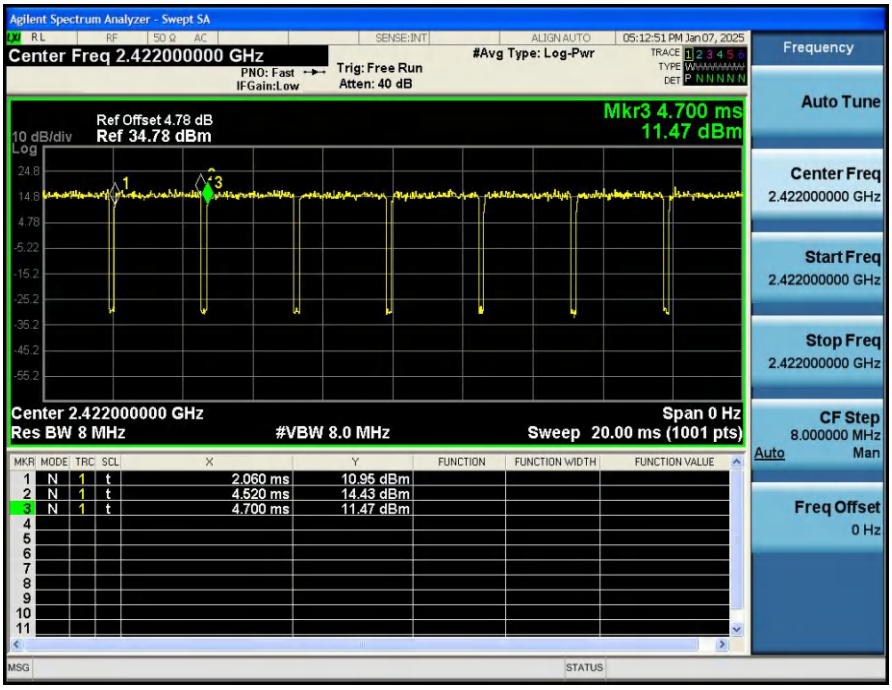
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2422



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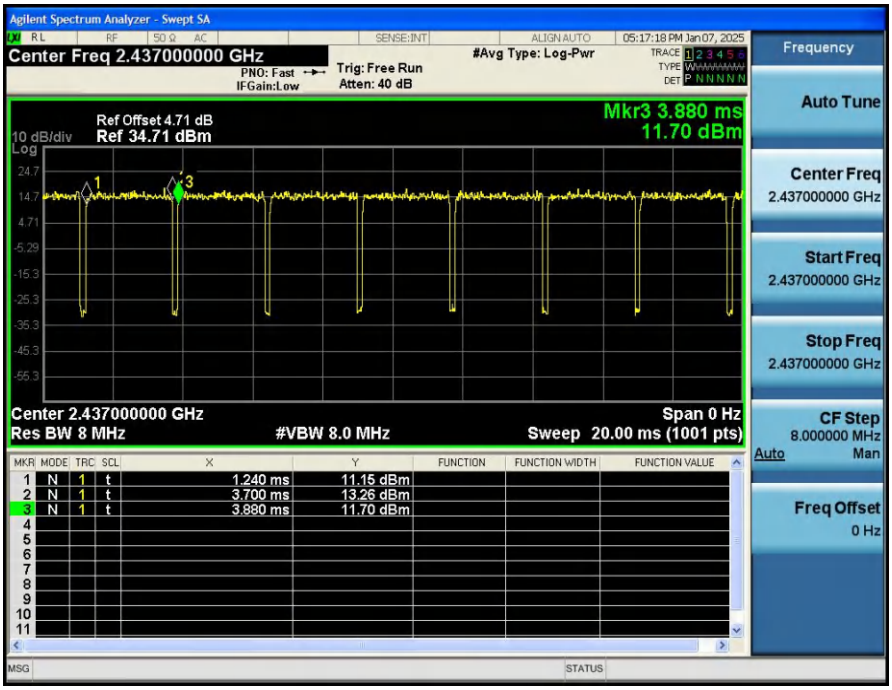
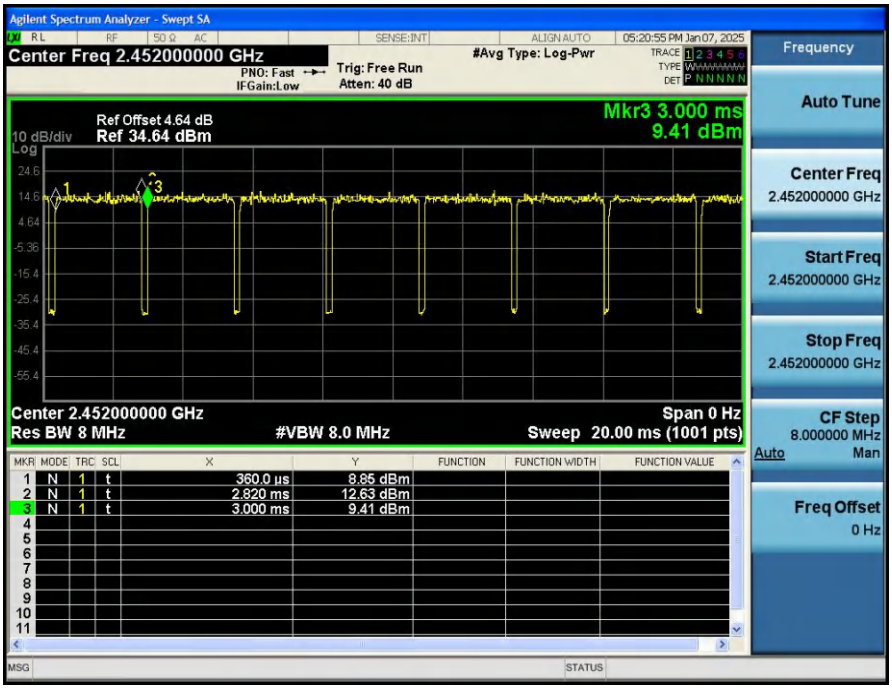
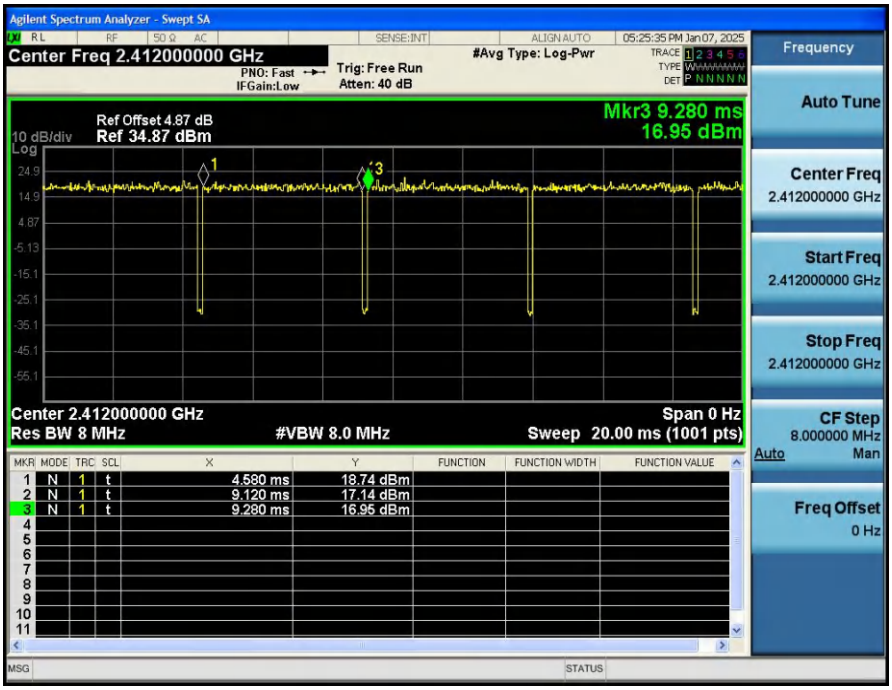


Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2452



Duty_Cycle_NVNT_ANT1_802_11ax(HE20)_2412



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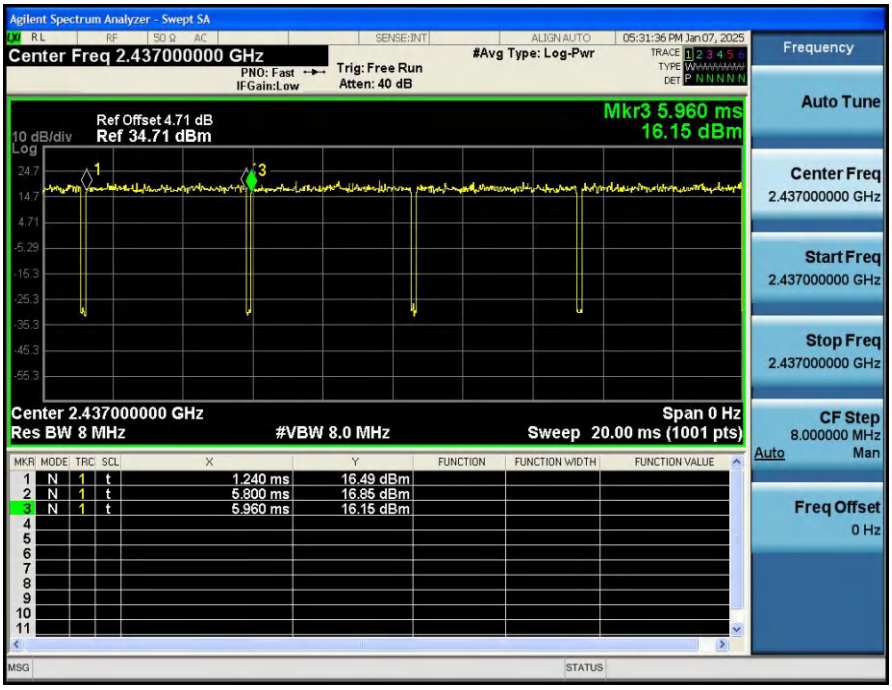
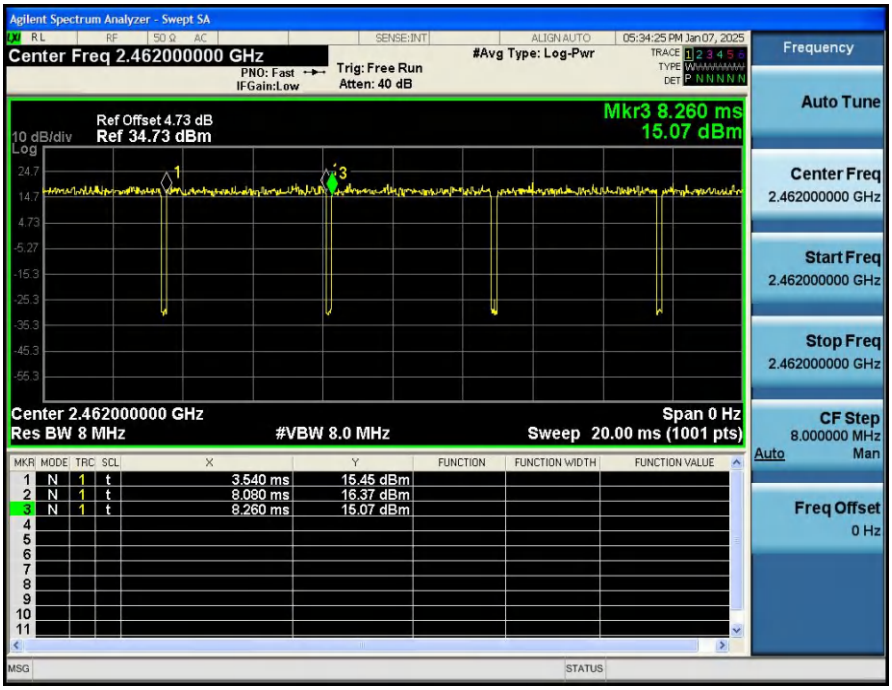
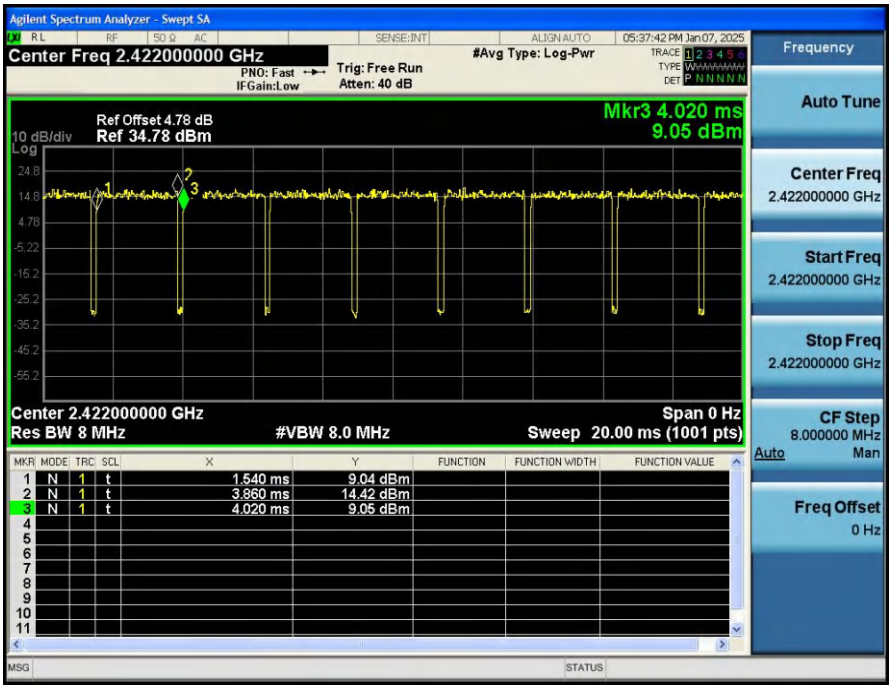


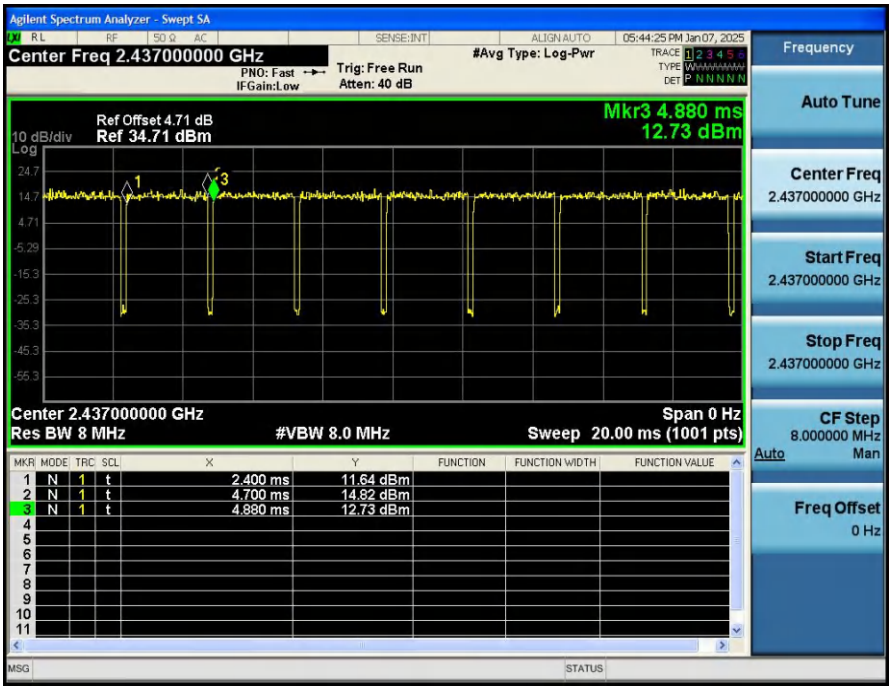
Duty_Cycle_NVNT_ANT1_802_11ax(HE20)_2462



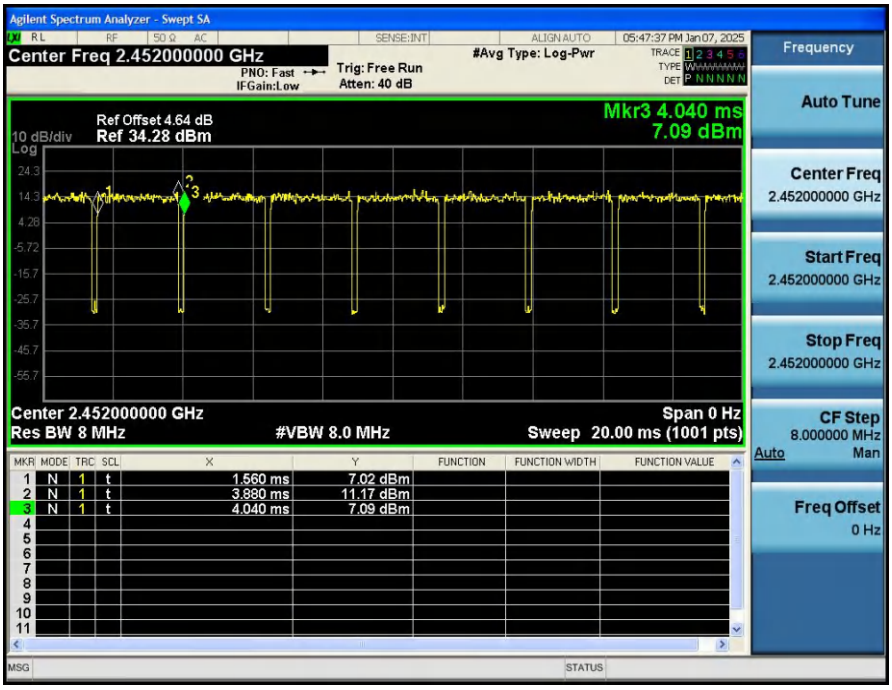
Duty_Cycle_NVNT_ANT1_802_11ax(HE40)_2422



Duty_Cycle_NVNT_ANT1_802_11ax(HE40)_2437



Duty_Cycle_NVNT_ANT1_802_11ax(HE40)_2452



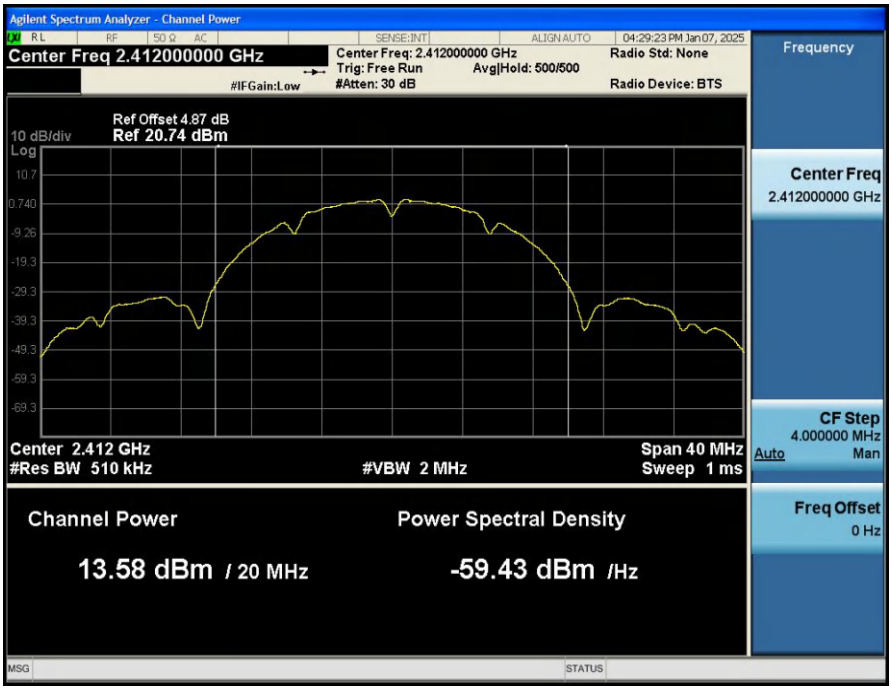
Appendix D: MAX. Output Power

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	13.58	0.00	13.58	30	Pass
NVNT	ANT1	802.11b	2437.00	RMS	12.91	0.00	12.91	30	Pass
NVNT	ANT1	802.11b	2462.00	RMS	12.84	0.00	12.84	30	Pass
NVNT	ANT1	802.11g	2412.00	RMS	13.51	0.42	13.93	30	Pass
NVNT	ANT1	802.11g	2437.00	RMS	12.88	0.48	13.36	30	Pass
NVNT	ANT1	802.11g	2462.00	RMS	12.75	0.48	13.23	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	RMS	15.22	0.13	15.35	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	RMS	14.52	0.12	14.64	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	RMS	13.44	0.12	13.56	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	RMS	14.48	0.27	14.75	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	RMS	14.06	0.27	14.33	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	RMS	12.89	0.27	13.16	30	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	RMS	15.30	0.13	**15.43**	30	Pass
NVNT	ANT1	802.11ax(HE20)	2437.00	RMS	14.50	0.13	14.63	30	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	RMS	13.47	0.15	13.62	30	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	RMS	14.36	0.25	14.61	30	Pass
NVNT	ANT1	802.11ax(HE40)	2437.00	RMS	13.94	0.29	14.23	30	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	RMS	12.75	0.25	13.00	30	Pass

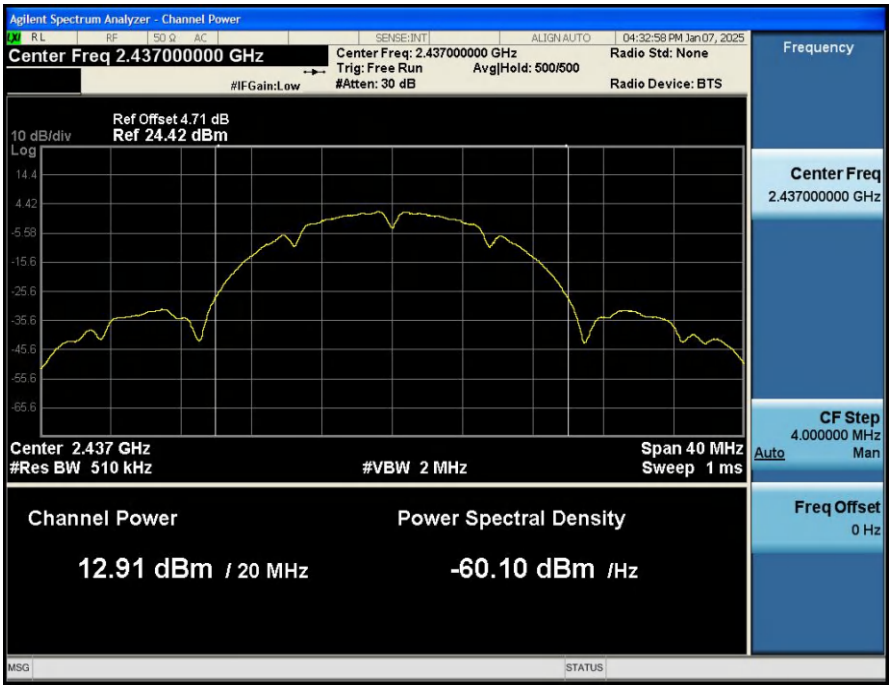
Note：

1. The cable loss are compensated in the graph.

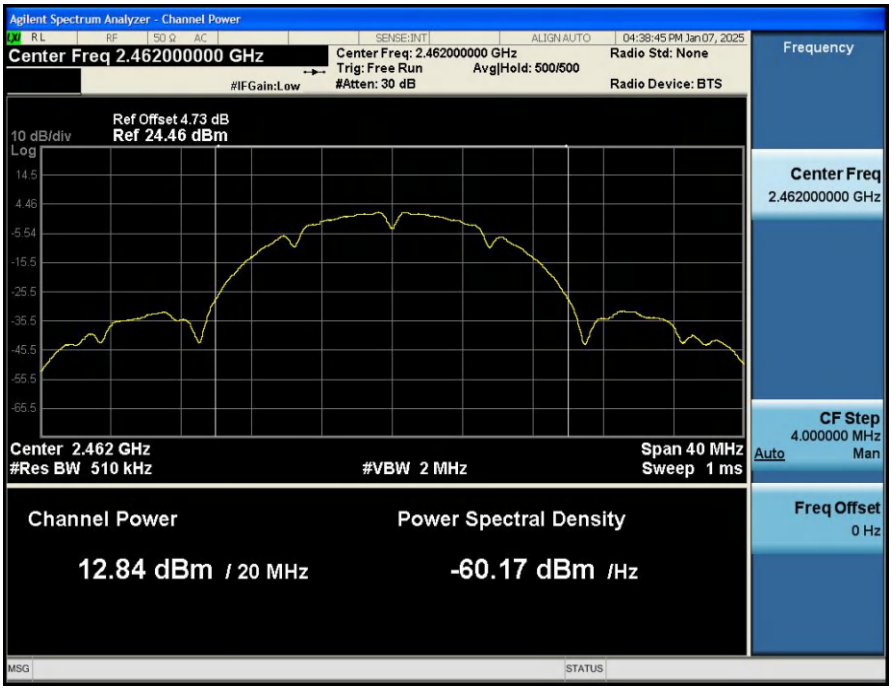
MAX__Output_Power_NVNT_ANT1_802_11b_2412



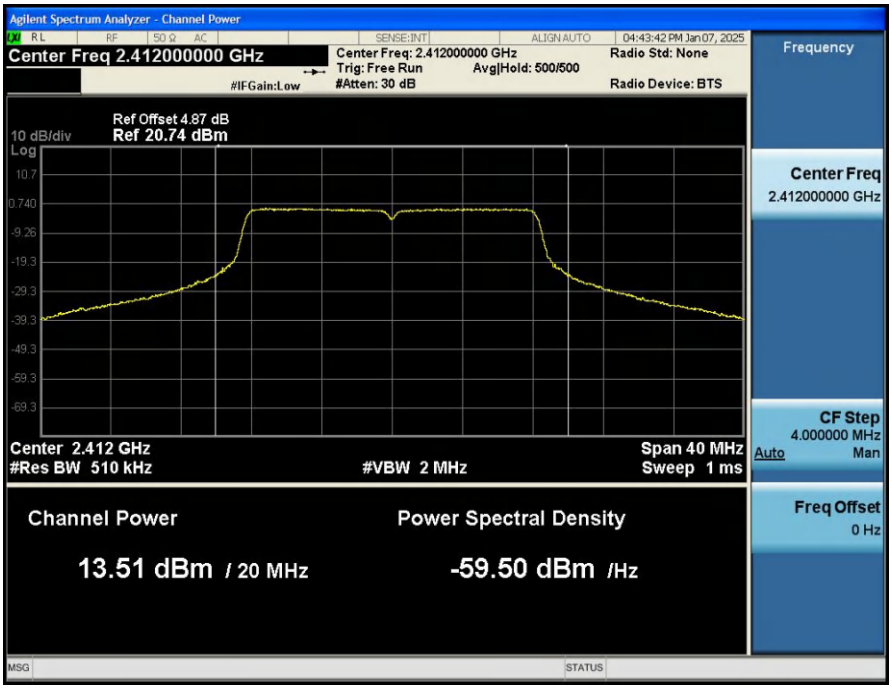
MAX__Output_Power_NVNT_ANT1_802_11b_2437



MAX__Output_Power_NVNT_ANT1_802_11b_2462



MAX__Output_Power_NVNT_ANT1_802_11g_2412



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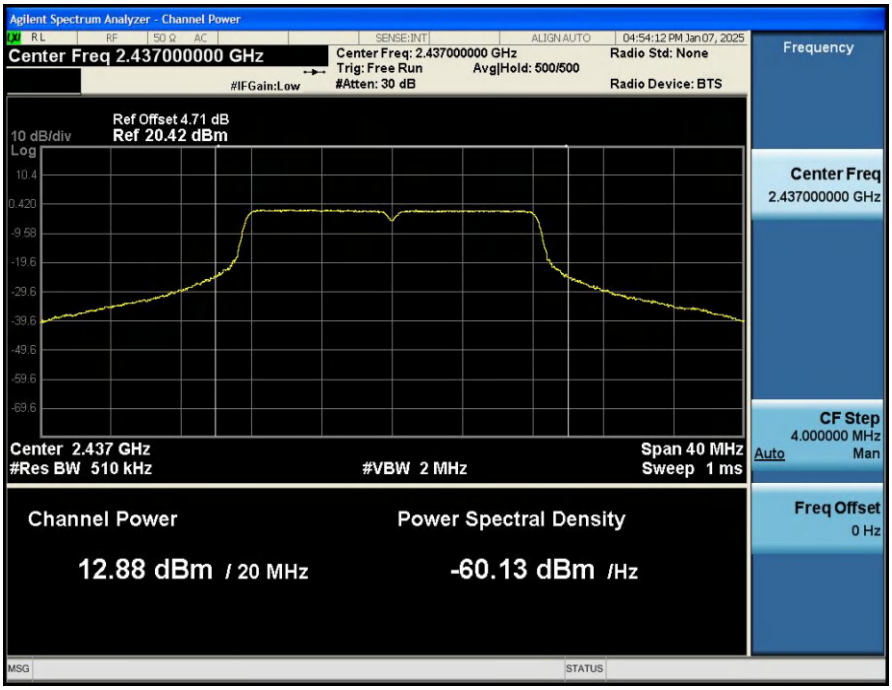

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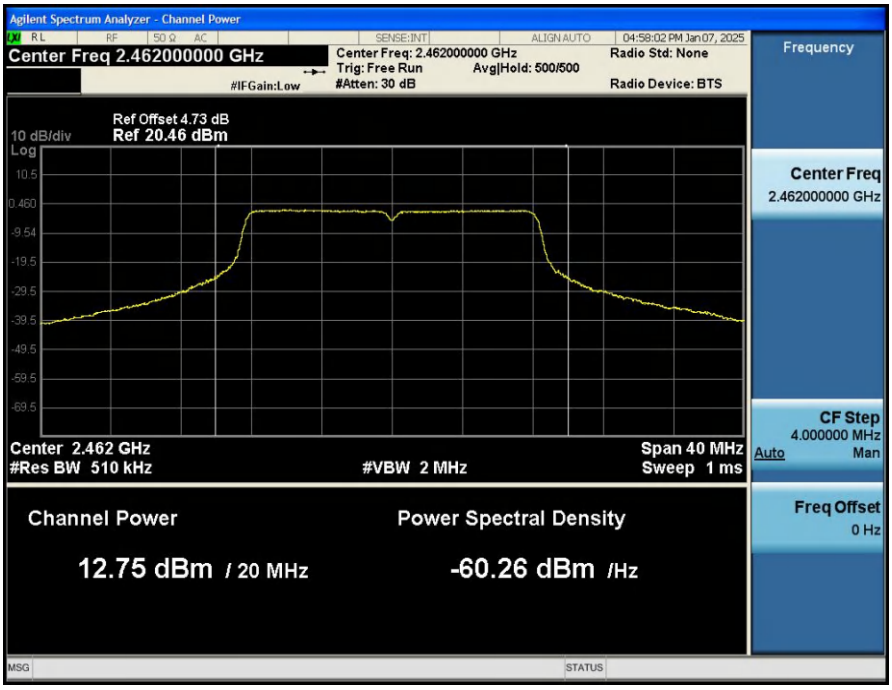
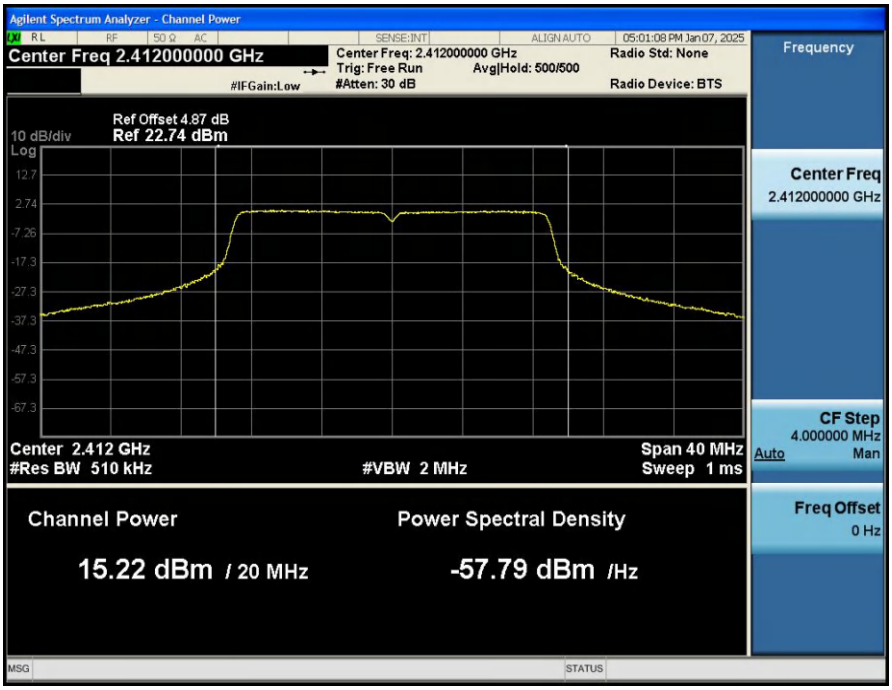
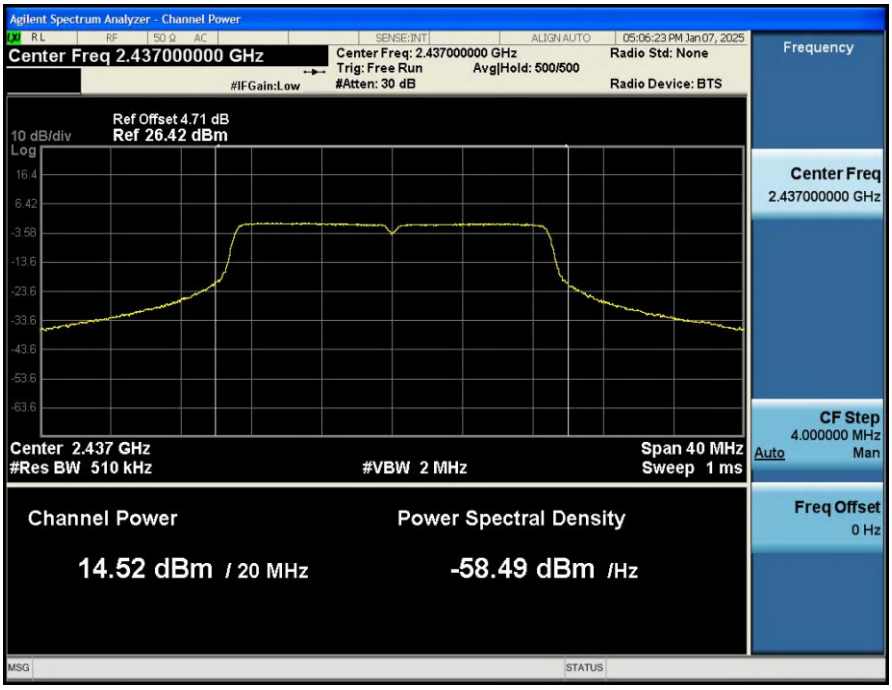


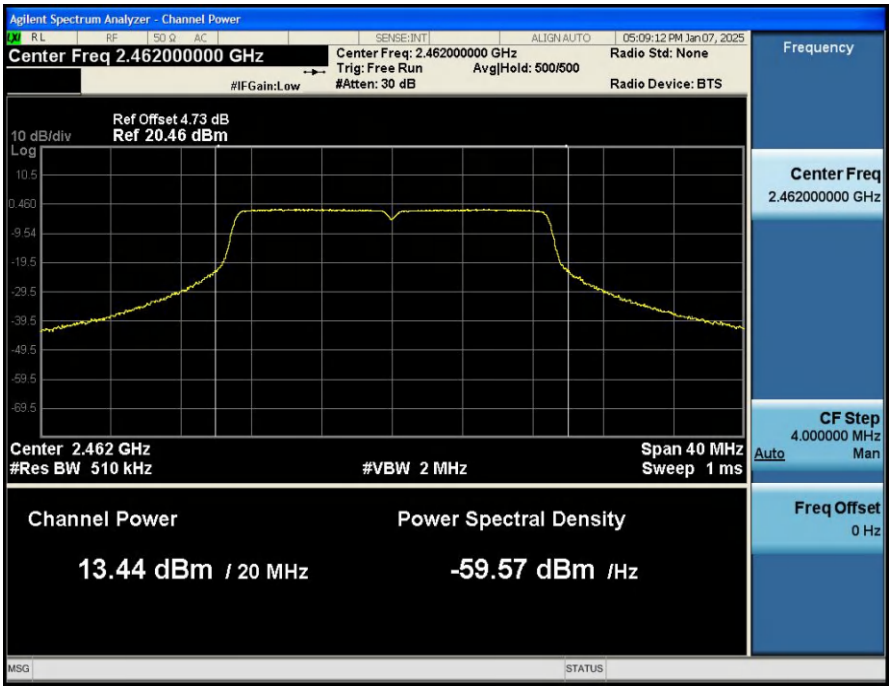
MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2412



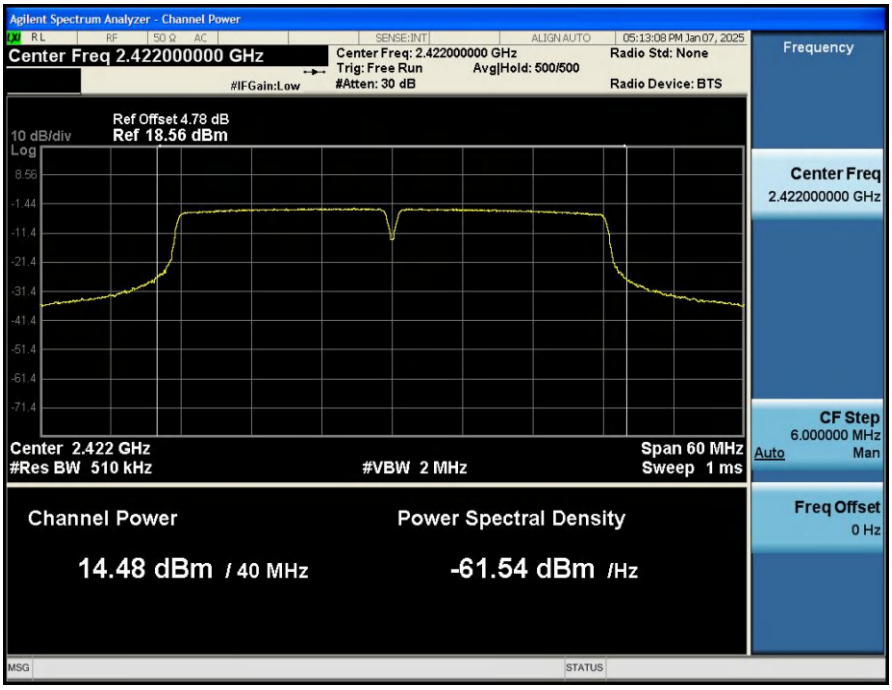
MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2437



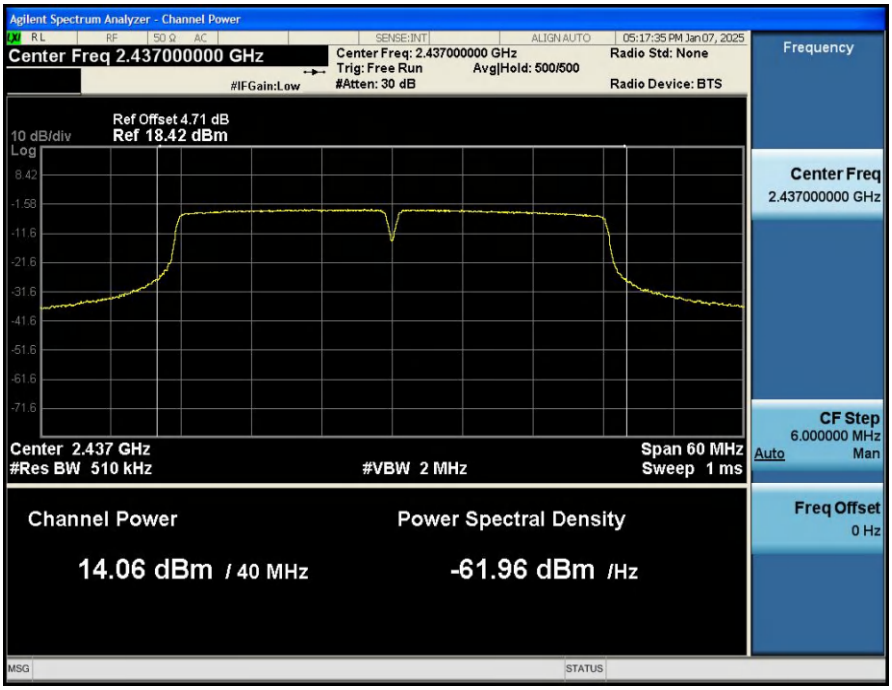
MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2462



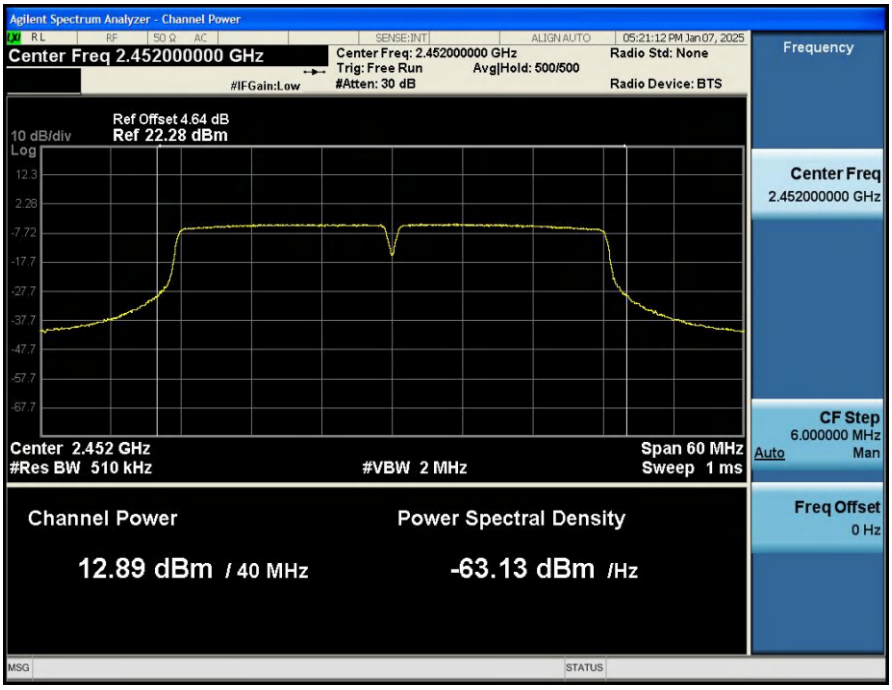
MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2422



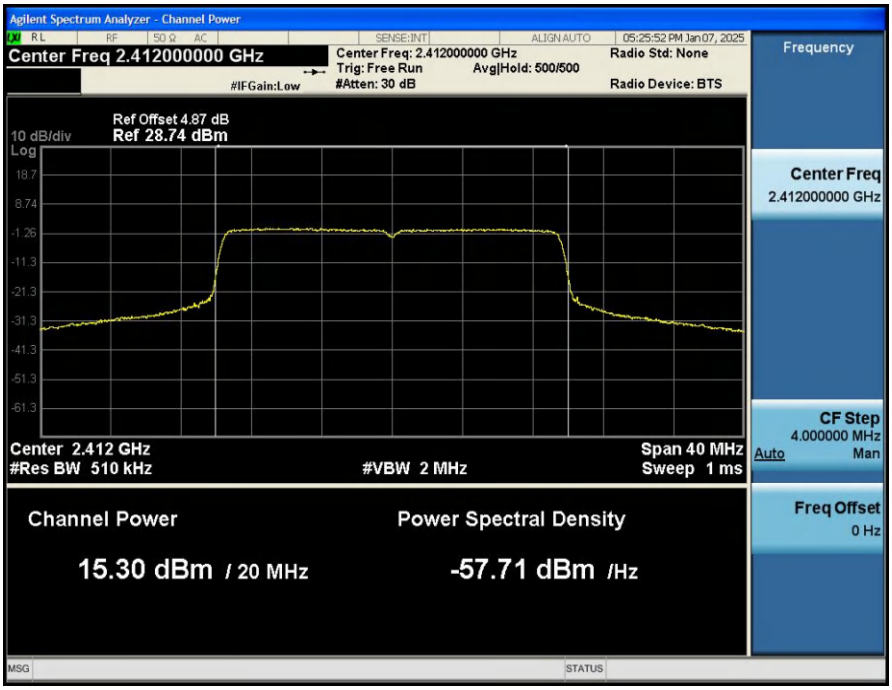
MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2437



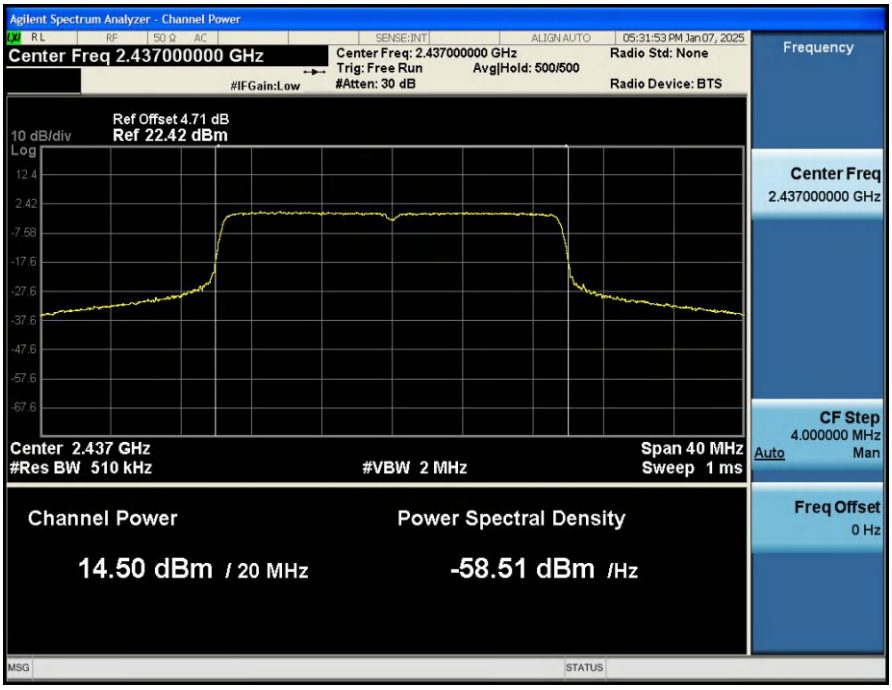
MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2452



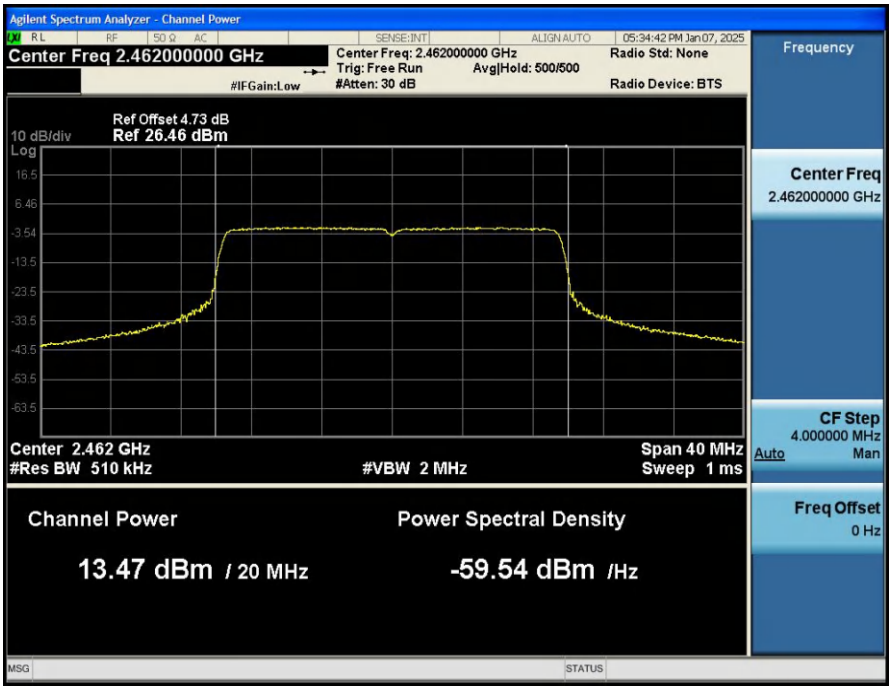
MAX__Output_Power_NVNT_ANT1_802_11ax(HE20)_2412



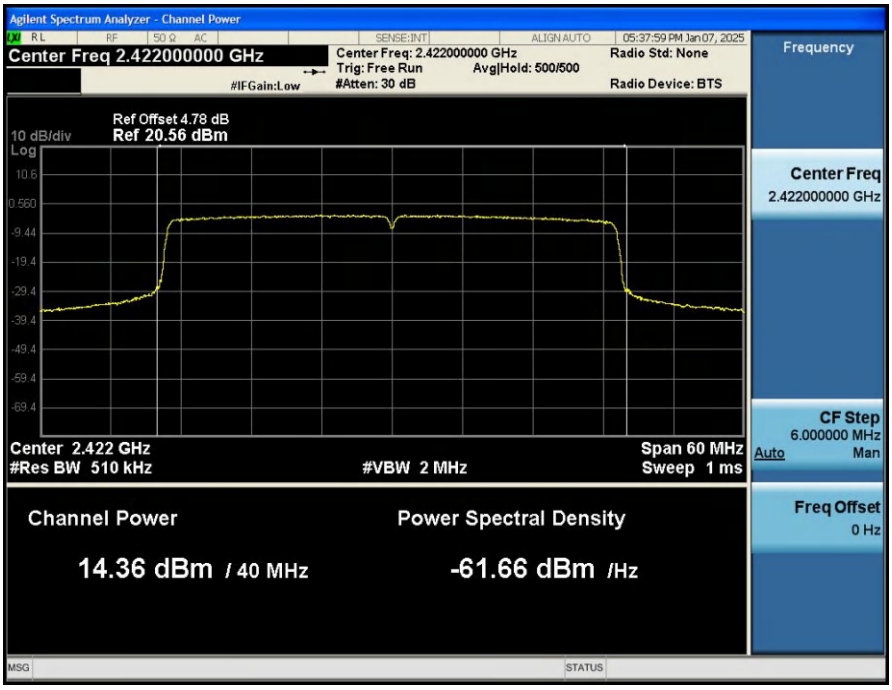
MAX__Output_Power_NVNT_ANT1_802_11ax(HE20)_2437



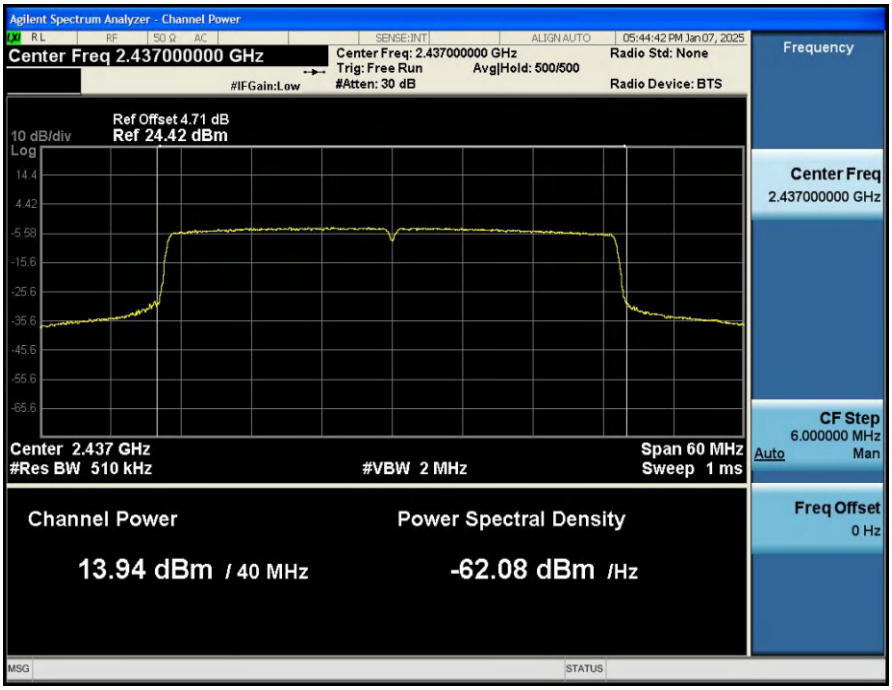
MAX__Output_Power_NVNT_ANT1_802_11ax(HE20)_2462



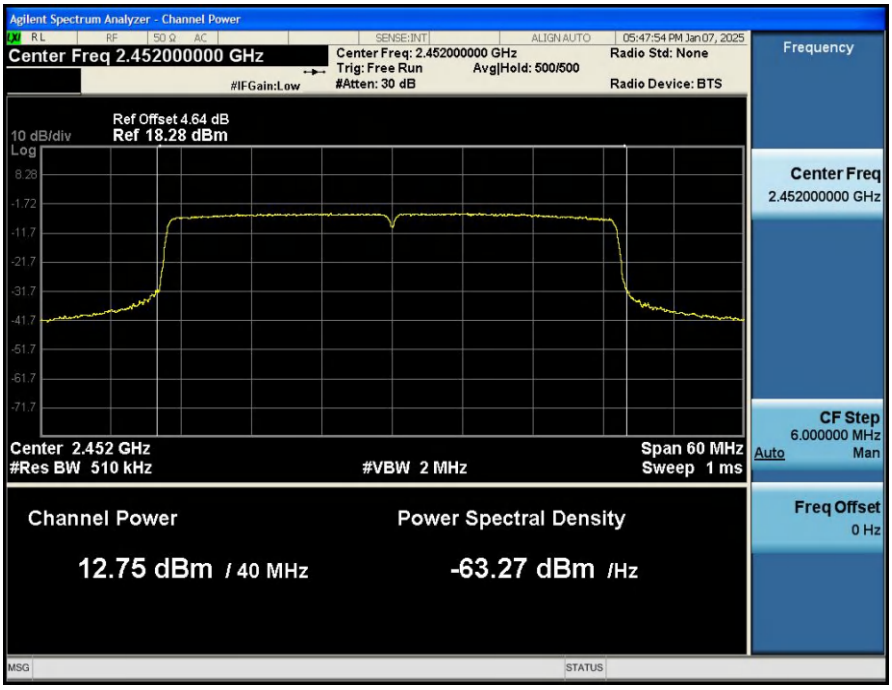
MAX__Output_Power_NVNT_ANT1_802_11ax(HE40)_2422



MAX__Output_Power_NVNT_ANT1_802_11ax(HE40)_2437



MAX__Output_Power_NVNT_ANT1_802_11ax(HE40)_2452



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	-0.04	0.00	-10.00	-10.04	8	Pass
NVNT	ANT1	802.11b	2437.00	-0.64	0.00	-10.00	-10.64	8	Pass
NVNT	ANT1	802.11b	2462.00	-0.81	0.00	-10.00	-10.81	8	Pass
NVNT	ANT1	802.11g	2412.00	-1.98	0.42	-10.00	-11.56	8	Pass
NVNT	ANT1	802.11g	2437.00	-2.16	0.48	-10.00	-11.68	8	Pass
NVNT	ANT1	802.11g	2462.00	-2.86	0.48	-10.00	-12.38	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-1.03	0.13	-10.00	-10.90	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-1.65	0.12	-10.00	-11.53	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-2.77	0.12	-10.00	-12.65	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-4.83	0.27	-10.00	-14.55	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-5.08	0.27	-10.00	-14.81	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-6.43	0.27	-10.00	-16.16	8	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	-1.07	0.13	-10.00	-10.94	8	Pass
NVNT	ANT1	802.11ax(HE20)	2437.00	-1.92	0.13	-10.00	-11.79	8	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	-2.80	0.15	-10.00	-12.65	8	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	-5.18	0.25	-10.00	-14.93	8	Pass
NVNT	ANT1	802.11ax(HE40)	2437.00	-4.97	0.29	-10.00	-14.68	8	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	-7.49	0.25	-10.00	-17.23	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_2412

Power_Spectral_Density_NVNT_ANT1_802_11b_2437