Appendix Test Data

Report No.:	1812C50298412501	Test Sample No.:	1-2-2
Start Test Date:	2025-6-19	Finish Test Date:	2025-7-10
Test Engineer:	Qiangfei Yang	Auditor:	Justin Feng
Temperature:	25.1℃	Relative Humidity:	62%
Pressure:	101kPa		

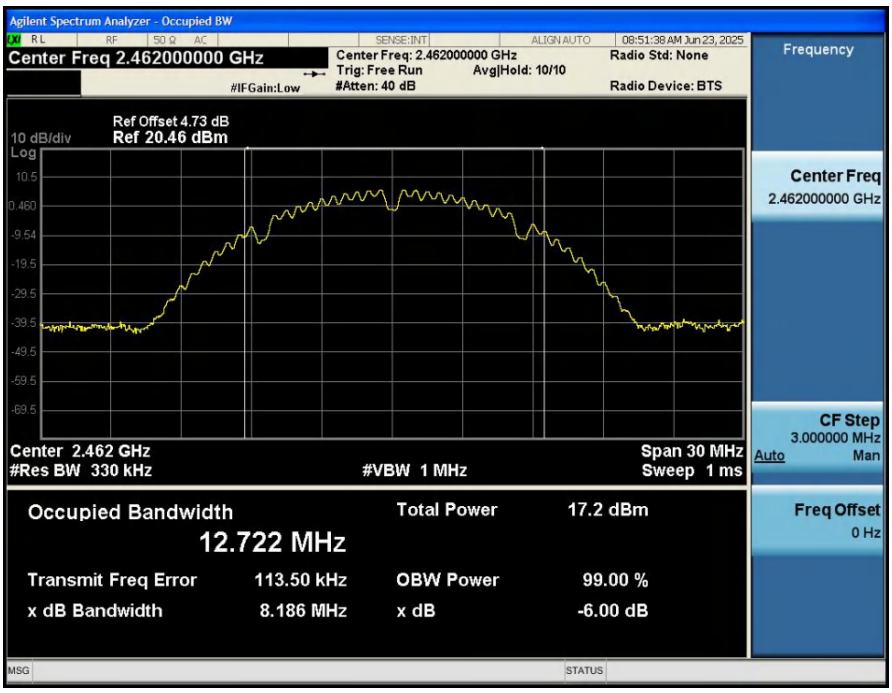
Appendix A: -6dB Bandwidth

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	8.62	500	Pass
HVNT	ANT1	802.11b	2462.00	8.19	500	Pass
HVNT	ANT1	802.11g	2412.00	16.34	500	Pass
HVNT	ANT1	802.11g	2437.00	16.22	500	Pass
HVNT	ANT1	802.11g	2462.00	15.57	500	Pass
HVNT	ANT1	802.11n(HT20)	2412.00	17.50	500	Pass
HVNT	ANT1	802.11n(HT20)	2437.00	17.57	500	Pass
HVNT	ANT1	802.11n(HT20)	2462.00	17.07	500	Pass
HVNT	ANT1	802.11ax(HEW20)	2412.00	14.86	500	Pass
HVNT	ANT1	802.11ax(HEW20)	2437.00	14.04	500	Pass
HVNT	ANT1	802.11ax(HEW20)	2462.00	13.94	500	Pass
HVNT	ANT1	802.11n(HT40)	2422.00	36.08	500	Pass
HVNT	ANT1	802.11n(HT40)	2437.00	34.51	500	Pass
HVNT	ANT1	802.11n(HT40)	2452.00	33.61	500	Pass
HVNT	ANT1	802.11ax(HEW40)	2422.00	33.83	500	Pass
HVNT	ANT1	802.11ax(HEW40)	2437.00	33.59	500	Pass
HVNT	ANT1	802.11ax(HEW40)	2452.00	28.74	500	Pass

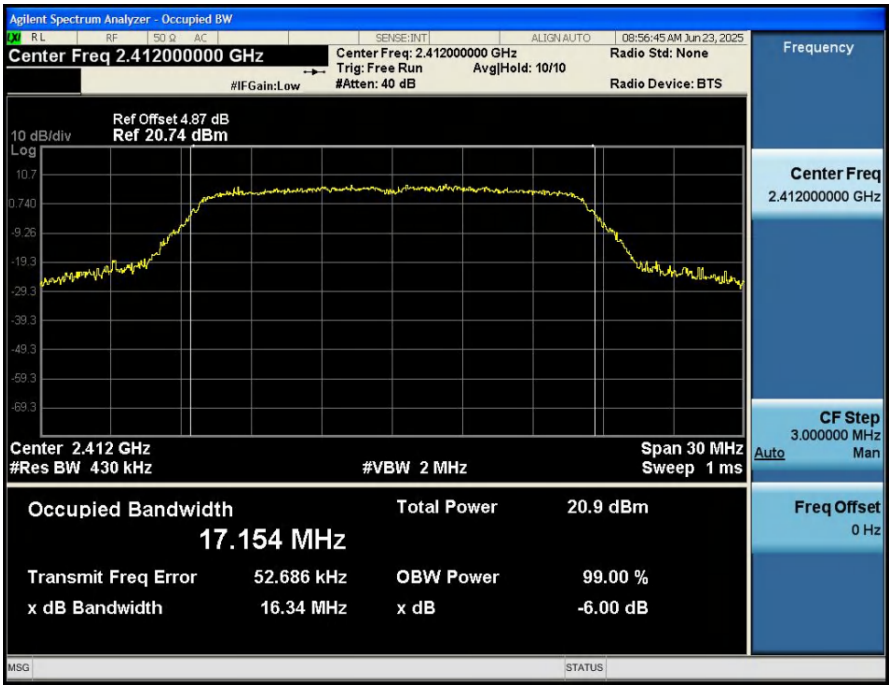
-6dB_Bandwidth_NVNT_ANT1_802_11b_2412

-6dB_Bandwidth_NVNT_ANT1_802_11b_2437

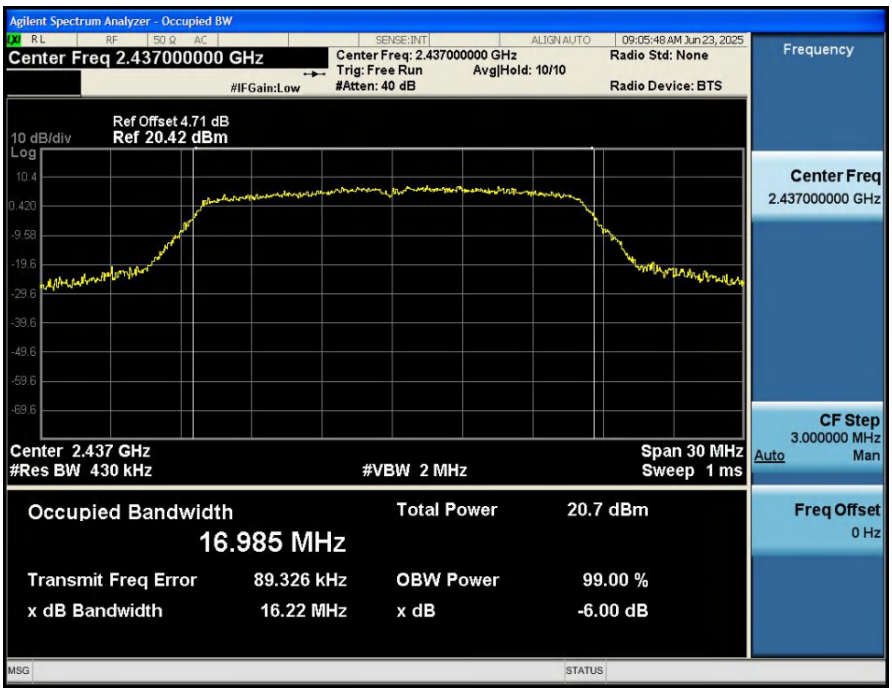
-6dB_Bandwidth_HVNT_ANT1_802_11b_2462



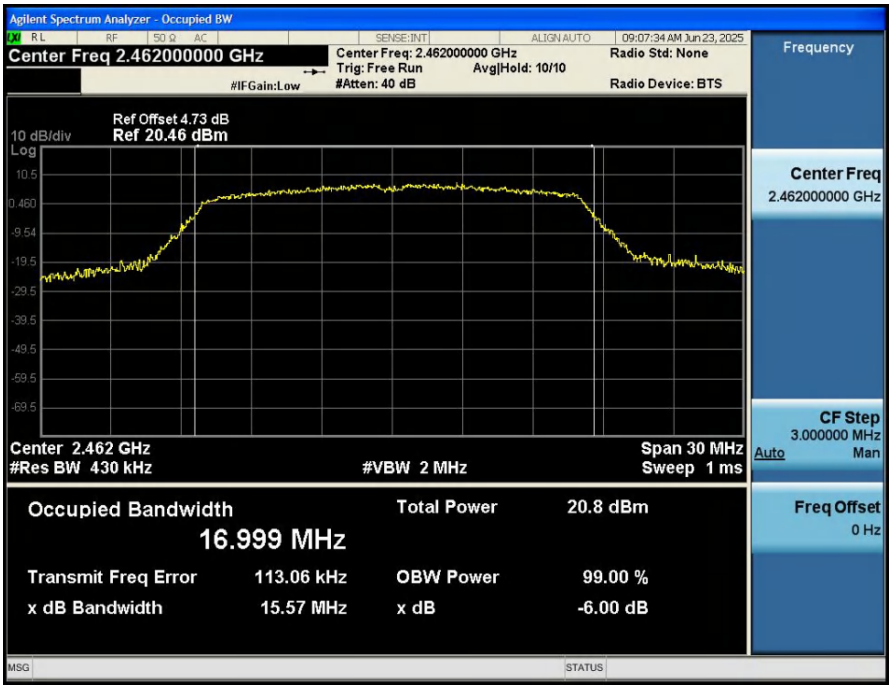
-6dB_Bandwidth_HVNT_ANT1_802_11g_2412



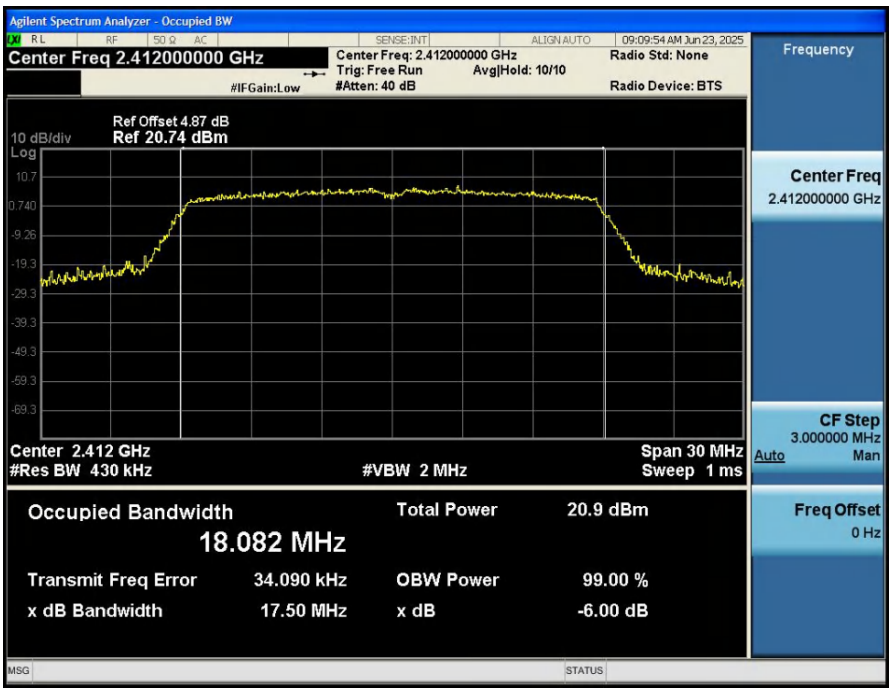
-6dB_Bandwidth_HVNT_ANT1_802_11g_2437



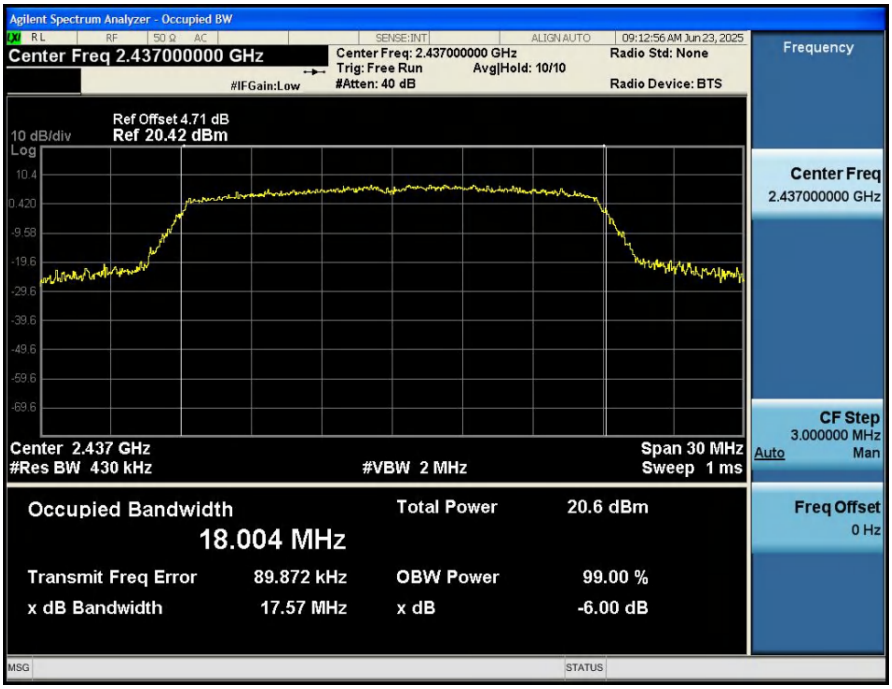
-6dB_Bandwidth_HVNT_ANT1_802_11g_2462



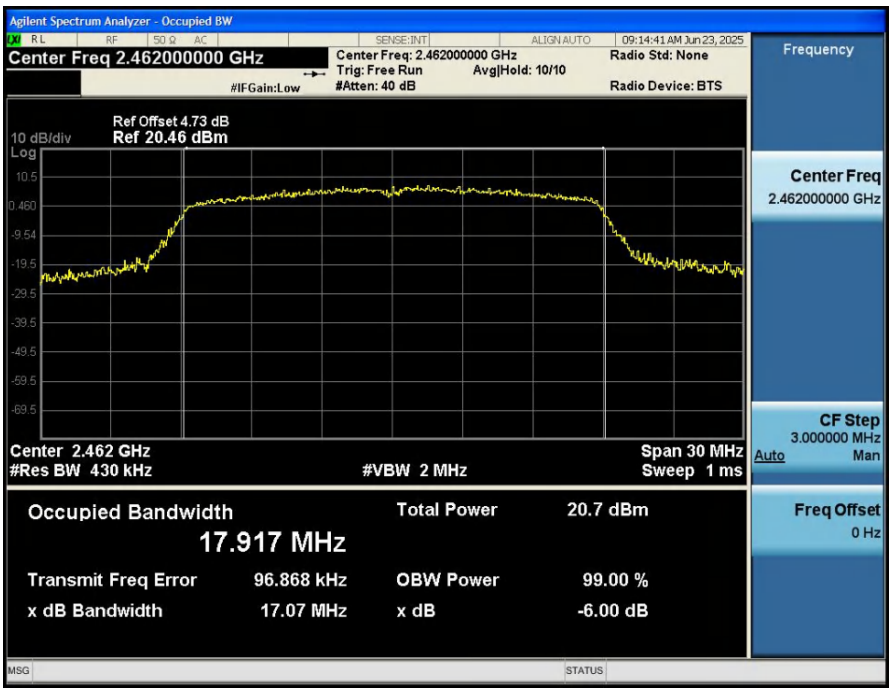
-6dB_Bandwidth_HVNT_ANT1_802_11n(HT20)_2412



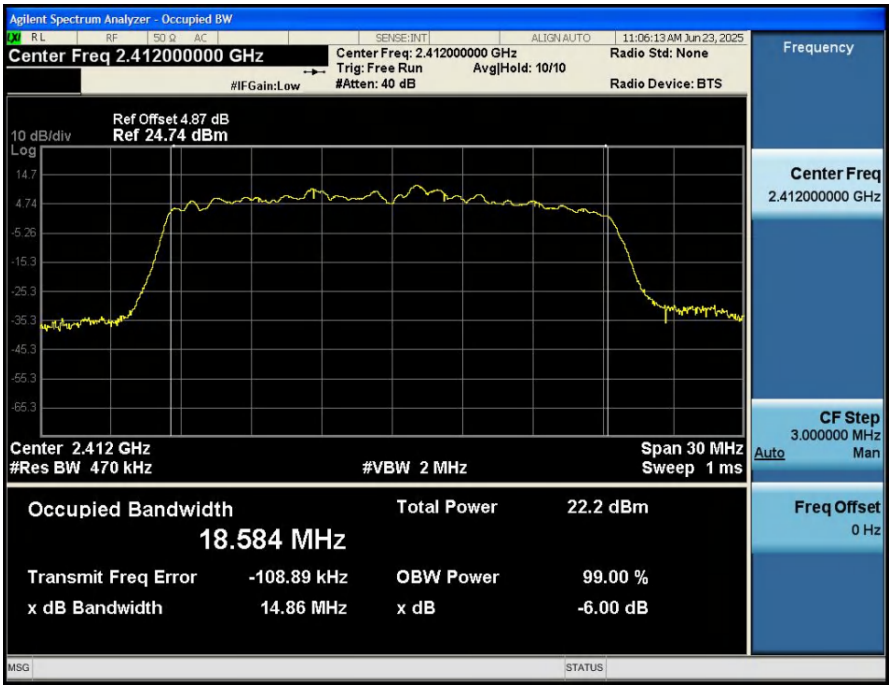
-6dB_Bandwidth_HVNT_ANT1_802_11n(HT20)_2437



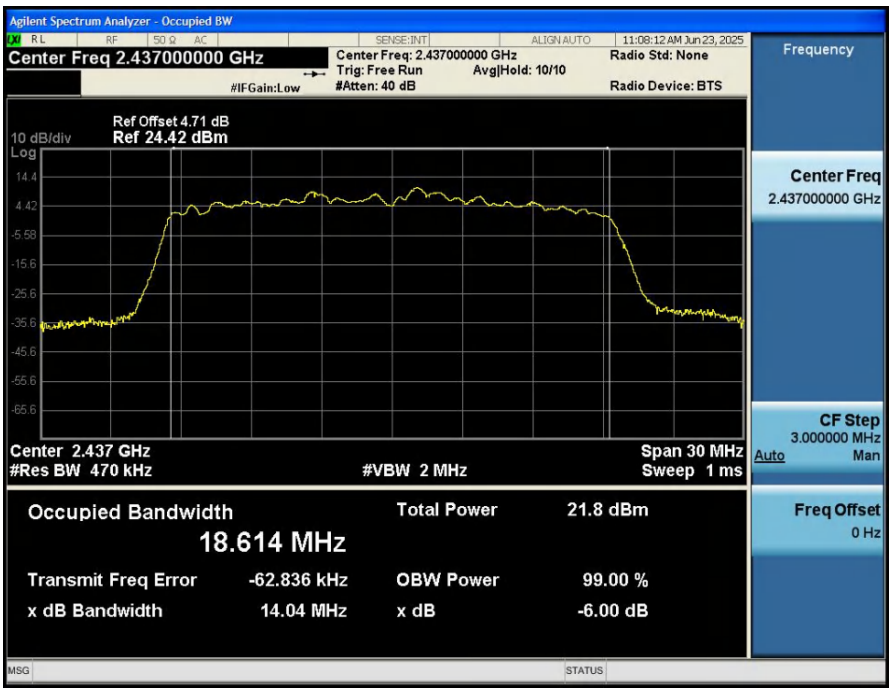
-6dB_Bandwidth_HVNT_ANT1_802_11n(HT20)_2462



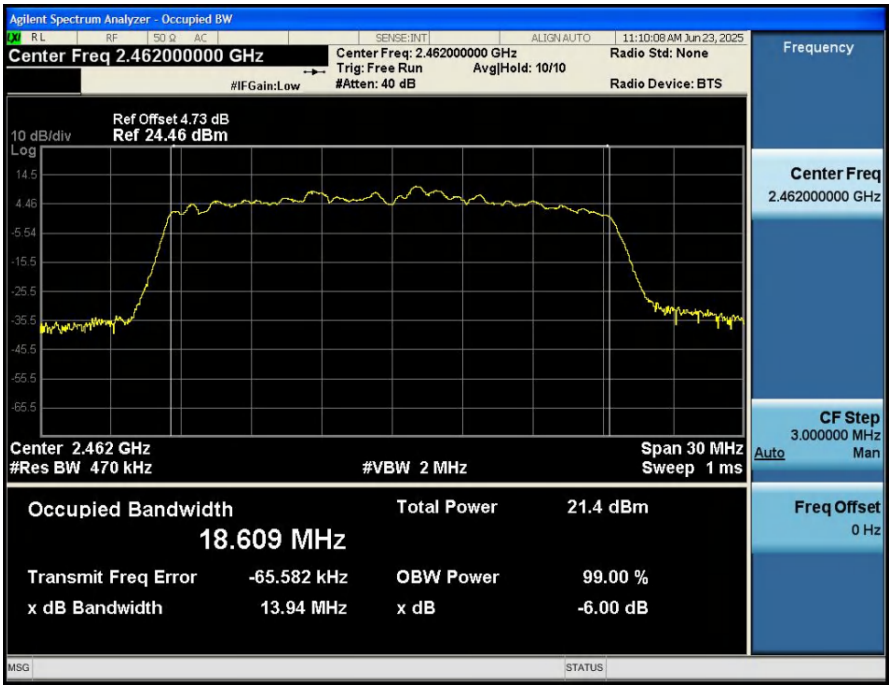
-6dB_Bandwidth_HVNT_ANT1_802_11ax(HE20)_2412



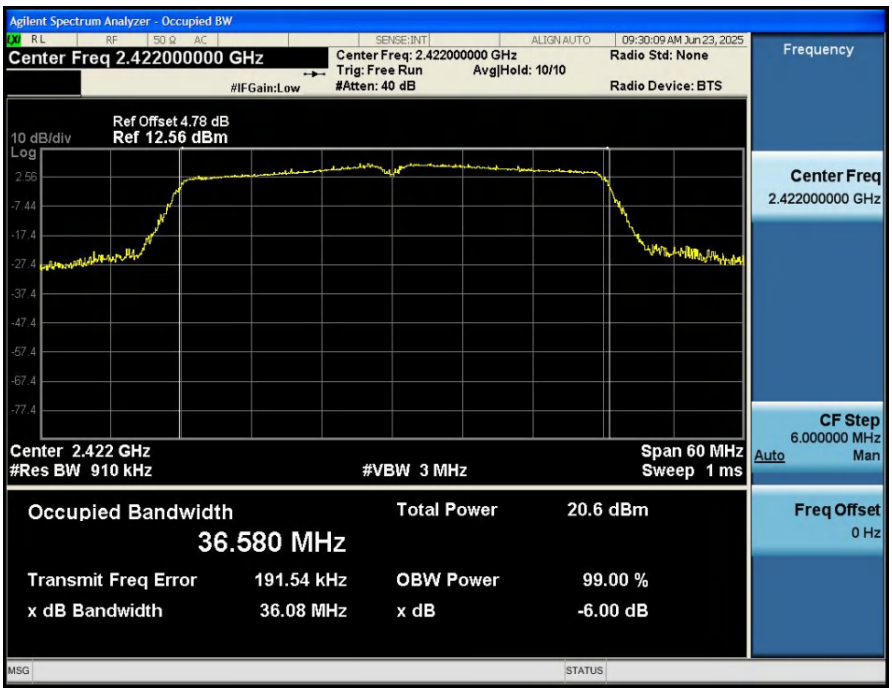
-6dB_Bandwidth_HVNT_ANT1_802_11ax(HE20)_2437



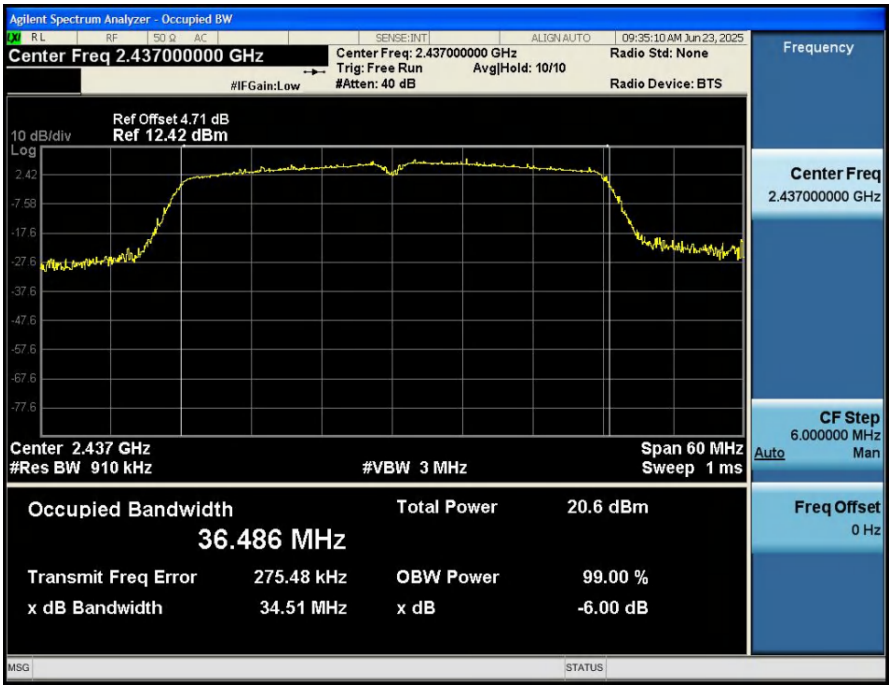
-6dB_Bandwidth_HVNT_ANT1_802_11ax(HE20)_2462



-6dB_Bandwidth_HVNT_ANT1_802_11n(HT40)_2422



-6dB_Bandwidth_HVNT_ANT1_802_11n(HT40)_2437



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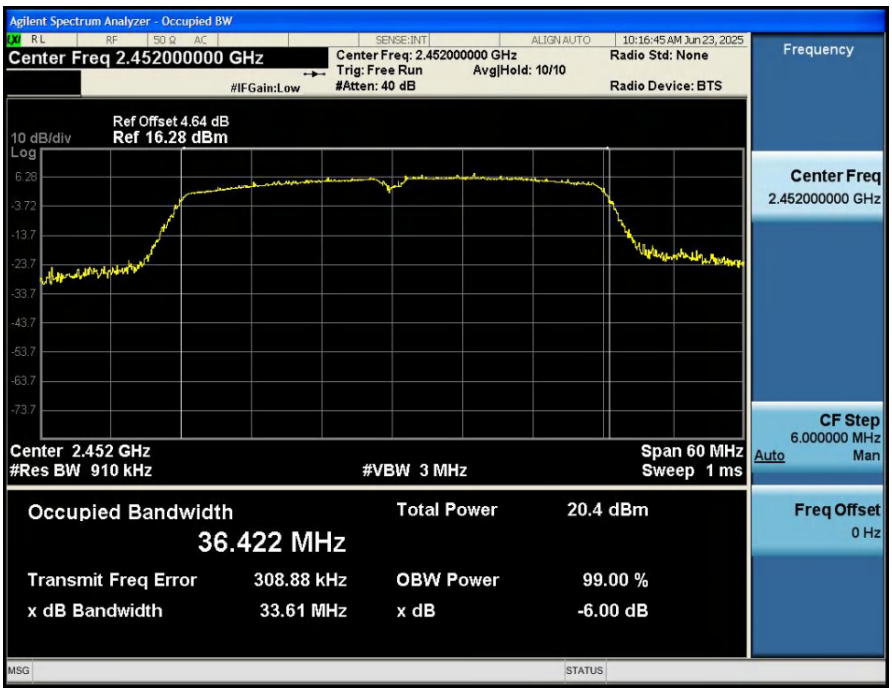
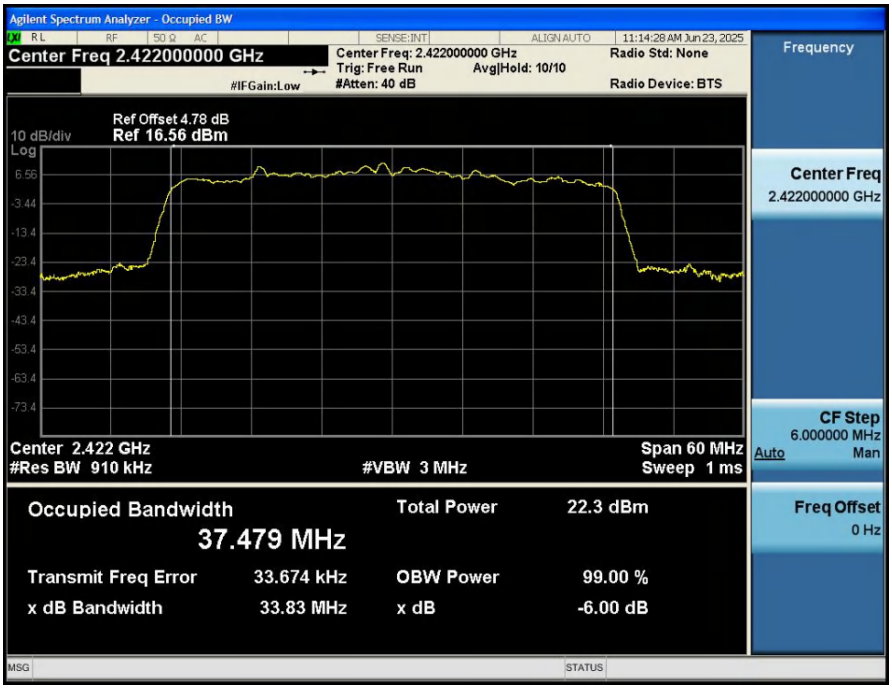
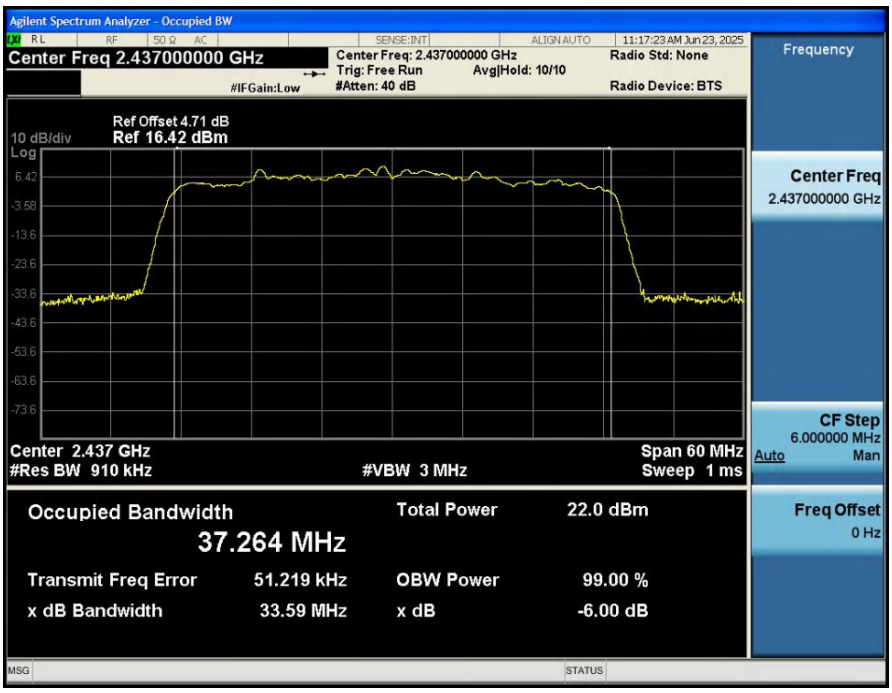


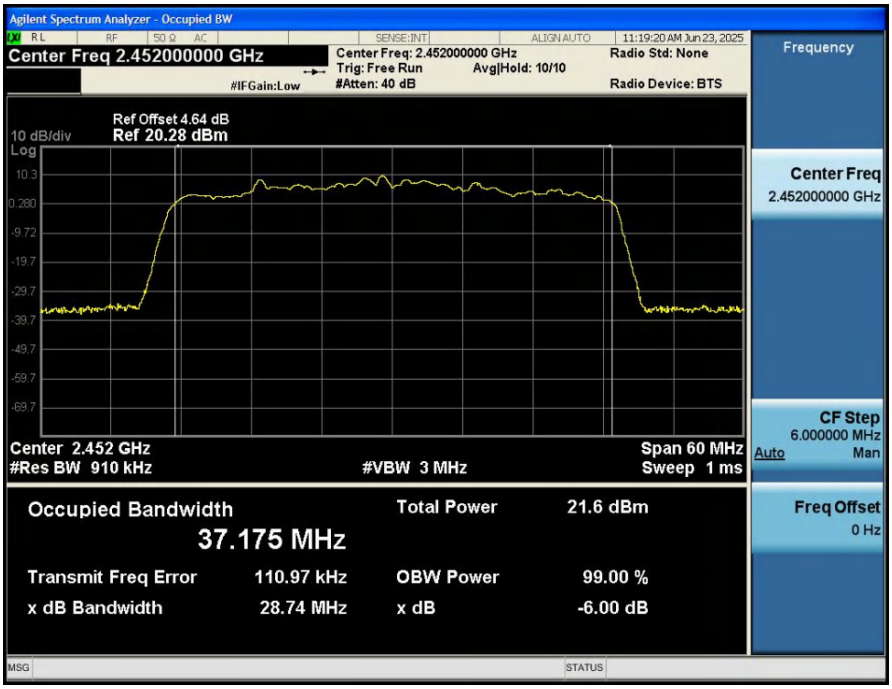
-6dB_Bandwidth_HVNT_ANT1_802_11ax(HE40)_2422



-6dB_Bandwidth_HVNT_ANT1_802_11ax(HE40)_2437



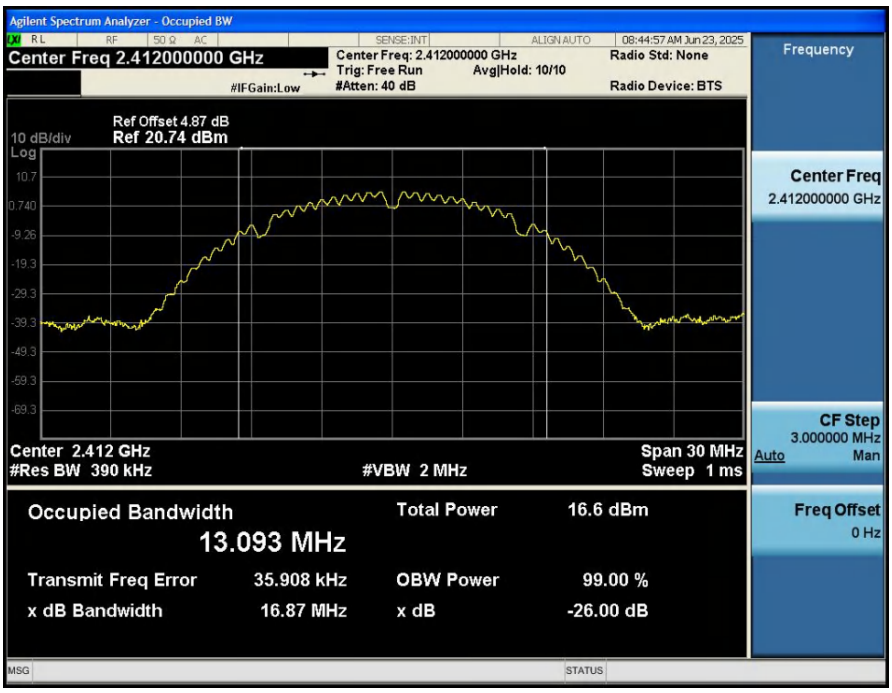
-6dB_Bandwidth_HVNT_ANT1_802_11ax(HE40)_2452



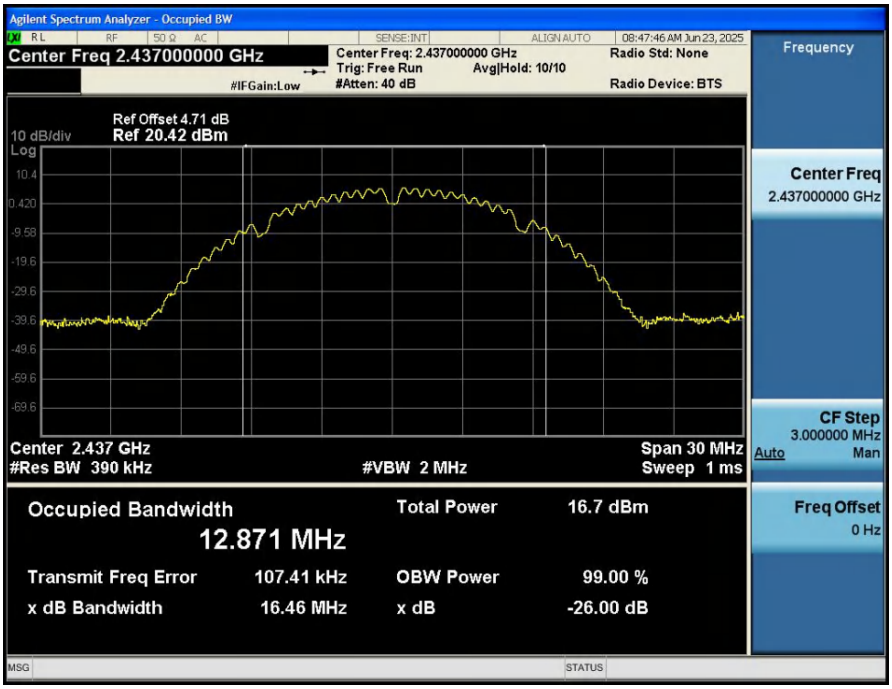
Appendix B: 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%BW(MHz)
NVNT	ANT1	802.11b	2412.00	13.093
NVNT	ANT1	802.11b	2437.00	12.871
HVNT	ANT1	802.11b	2462.00	12.727
HVNT	ANT1	802.11g	2412.00	17.340
HVNT	ANT1	802.11g	2437.00	17.292
HVNT	ANT1	802.11g	2462.00	17.240
HVNT	ANT1	802.11n(HT20)	2412.00	18.207
HVNT	ANT1	802.11n(HT20)	2437.00	18.130
HVNT	ANT1	802.11n(HT20)	2462.00	18.140
HVNT	ANT1	802.11ax(HEW20)	2412.00	18.577
HVNT	ANT1	802.11ax(HEW20)	2437.00	18.624
HVNT	ANT1	802.11ax(HEW20)	2462.00	18.605
HVNT	ANT1	802.11n(HT40)	2422.00	36.649
HVNT	ANT1	802.11n(HT40)	2437.00	36.498
HVNT	ANT1	802.11n(HT40)	2452.00	36.371
HVNT	ANT1	802.11ax(HEW40)	2422.00	37.478
HVNT	ANT1	802.11ax(HEW40)	2437.00	37.261
HVNT	ANT1	802.11ax(HEW40)	2452.00	37.181

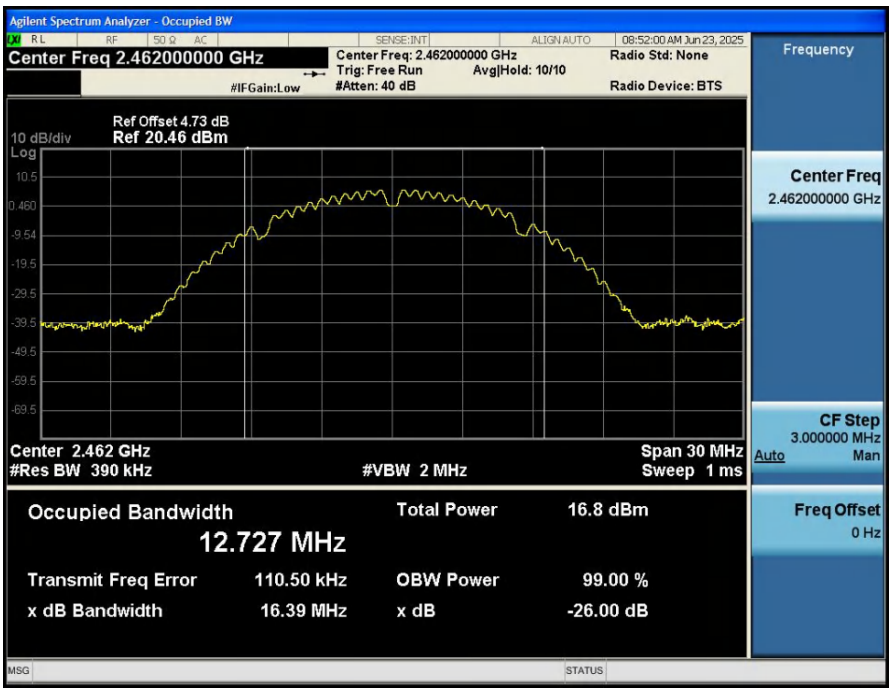
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2412



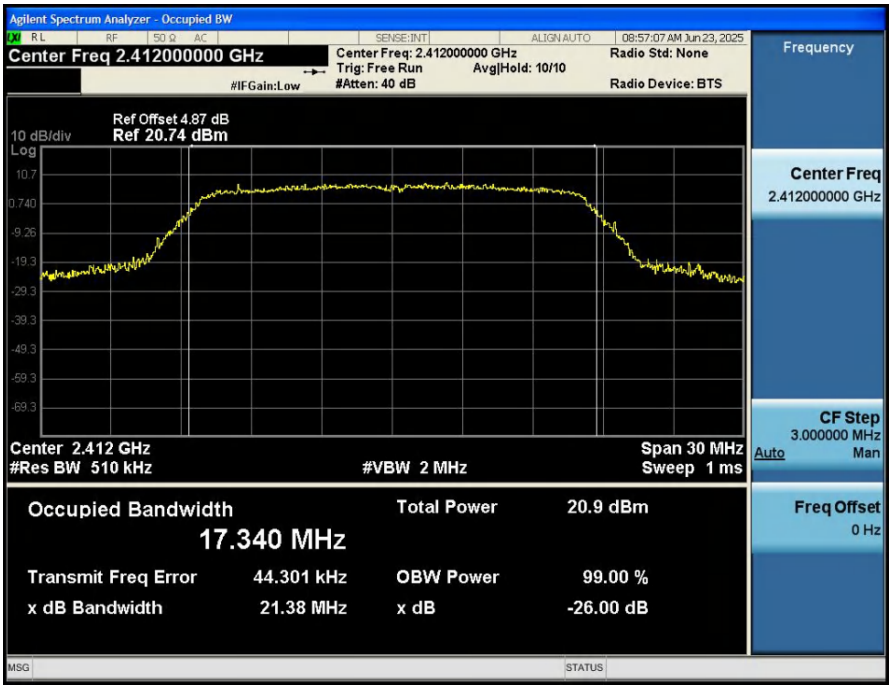
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2437



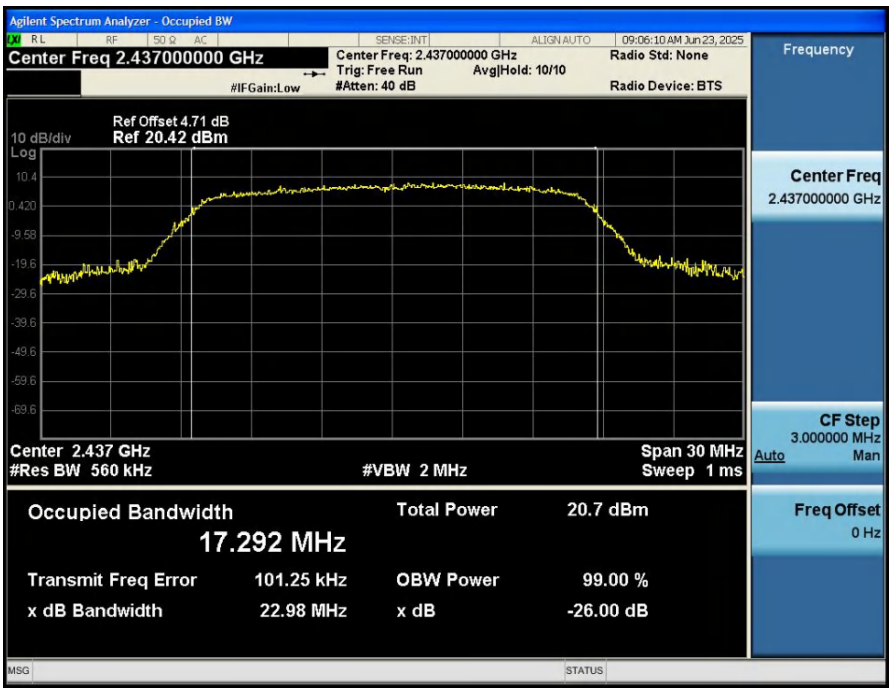
99%_Occupied_Bandwidth_HVNT_ANT1_802_11b_2462



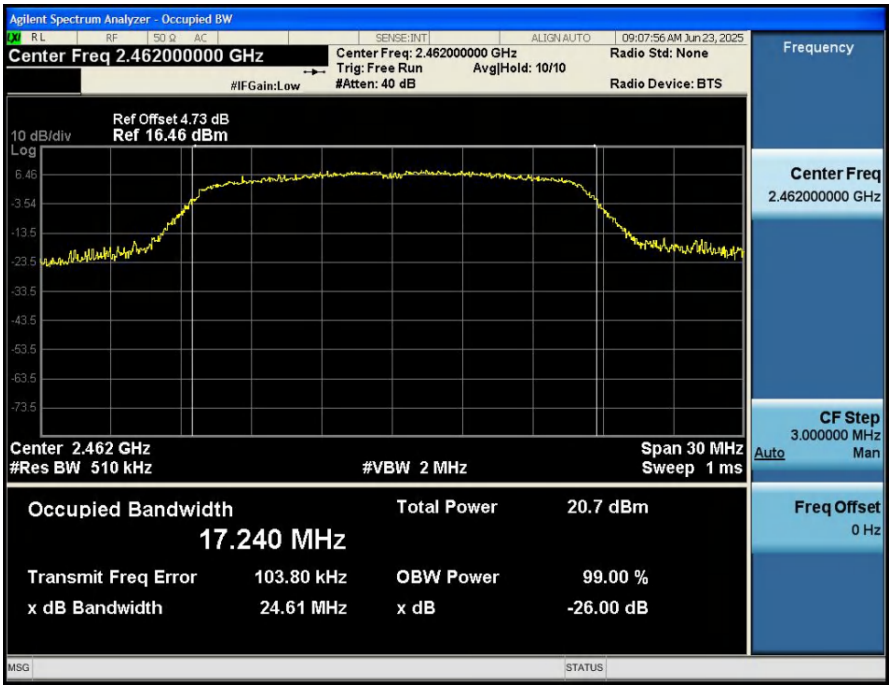
99%_Occupied_Bandwidth_HVNT_ANT1_802_11g_2412



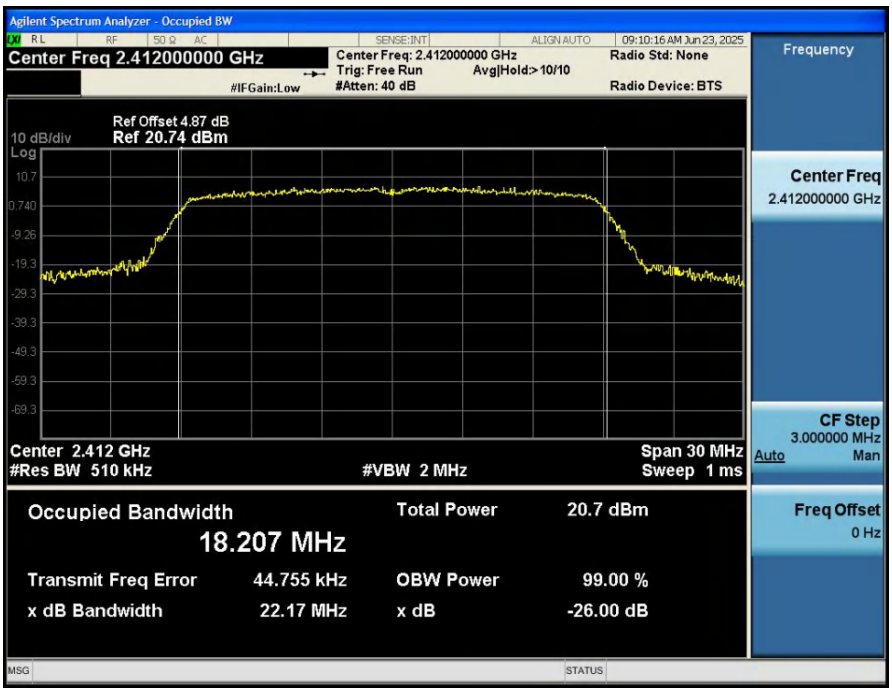
99%_Occupied_Bandwidth_HVNT_ANT1_802_11g_2437



99%_Occupied_Bandwidth_HVNT_ANT1_802_11g_2462



99%_Occupied_Bandwidth_HVNT_ANT1_802_11n(HT20)_2412



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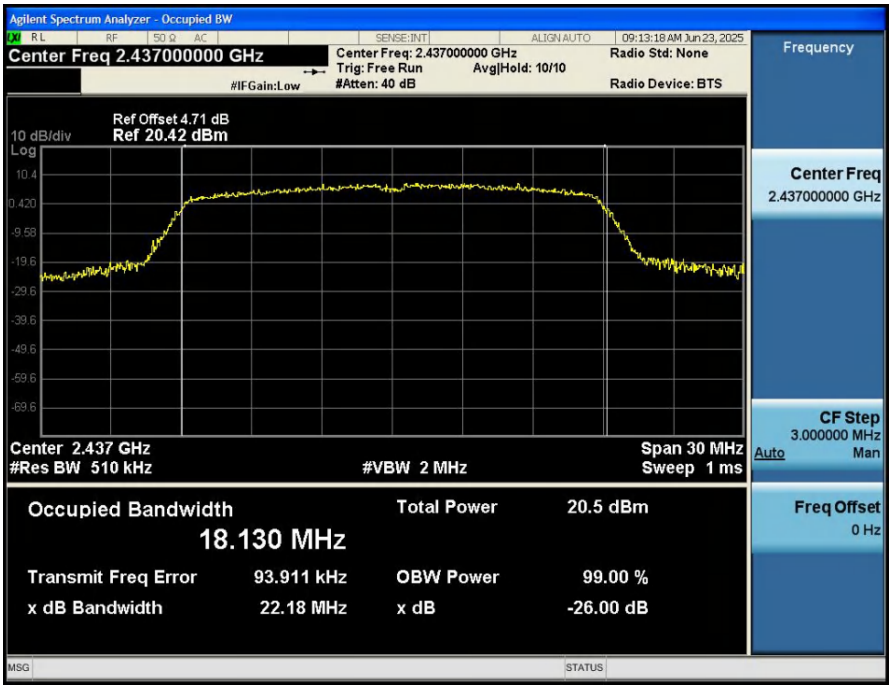

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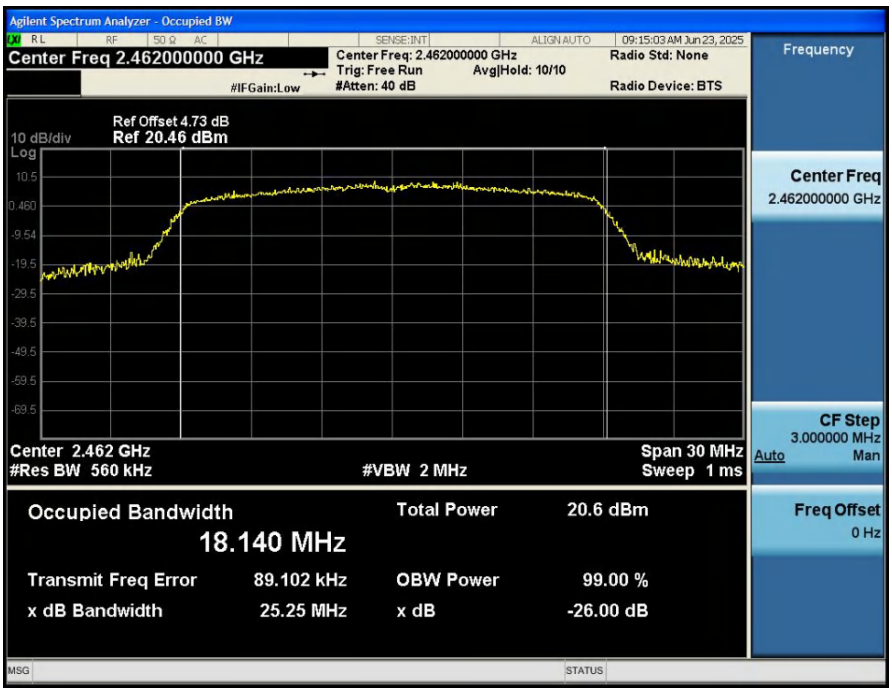
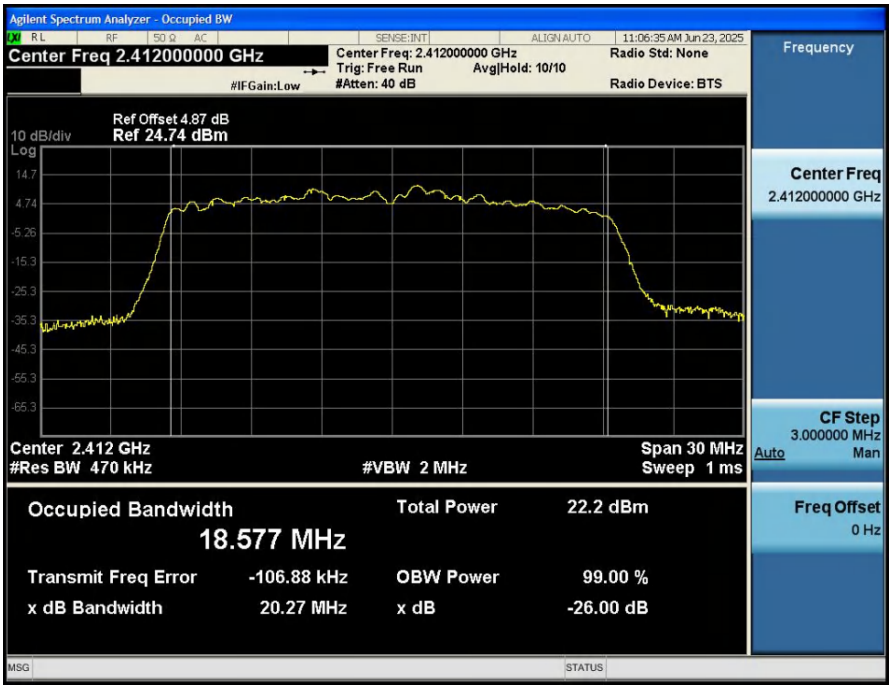


99%_Occupied_Bandwidth_HVNT_ANT1_802_11ax(HE20)_2412



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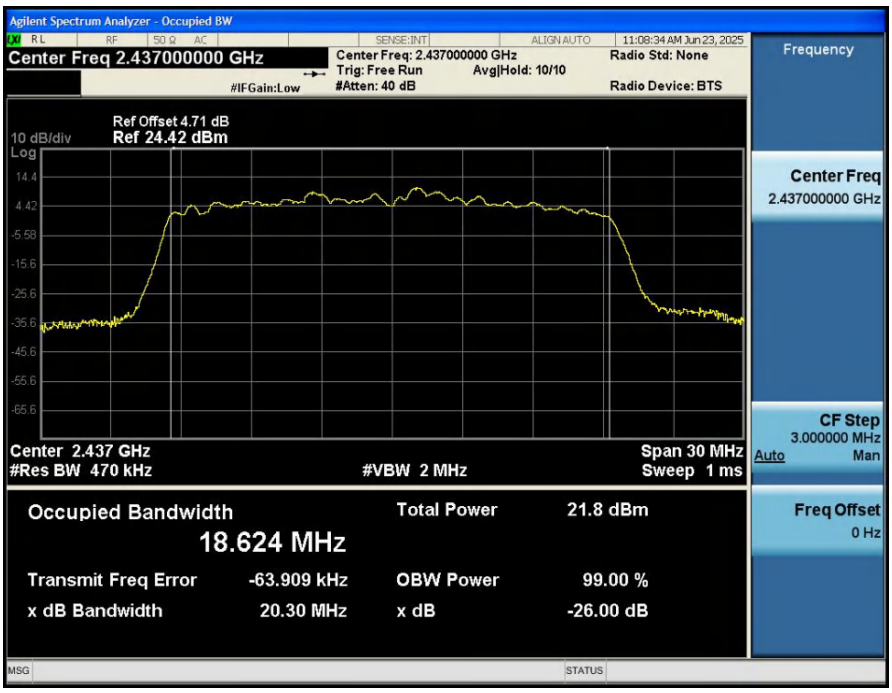
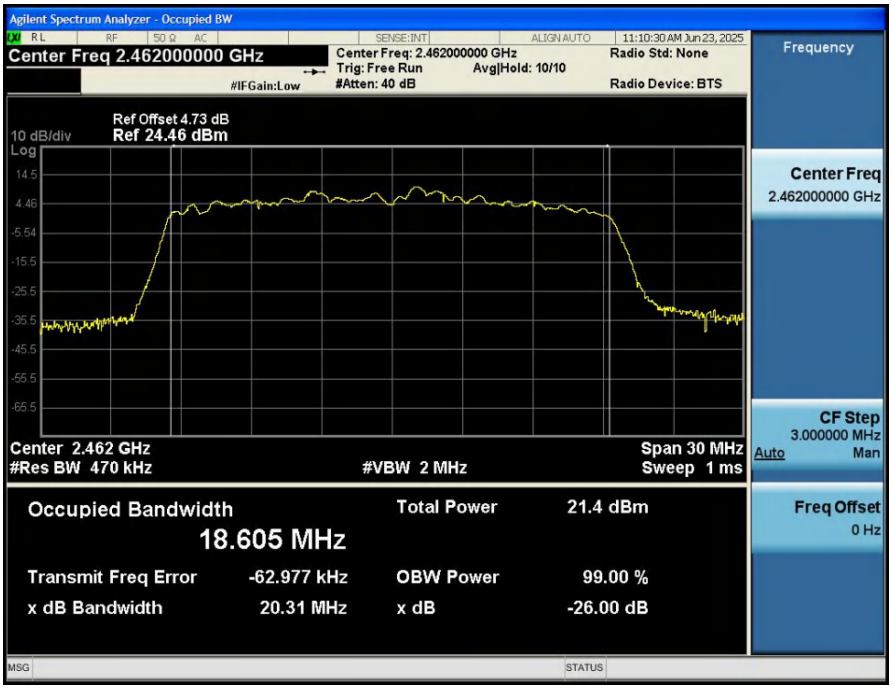
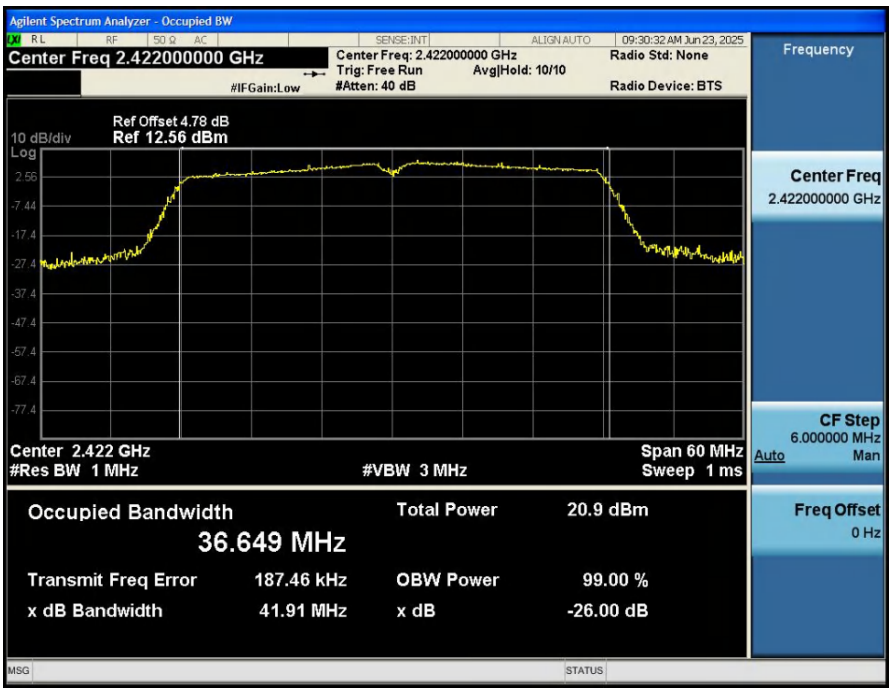


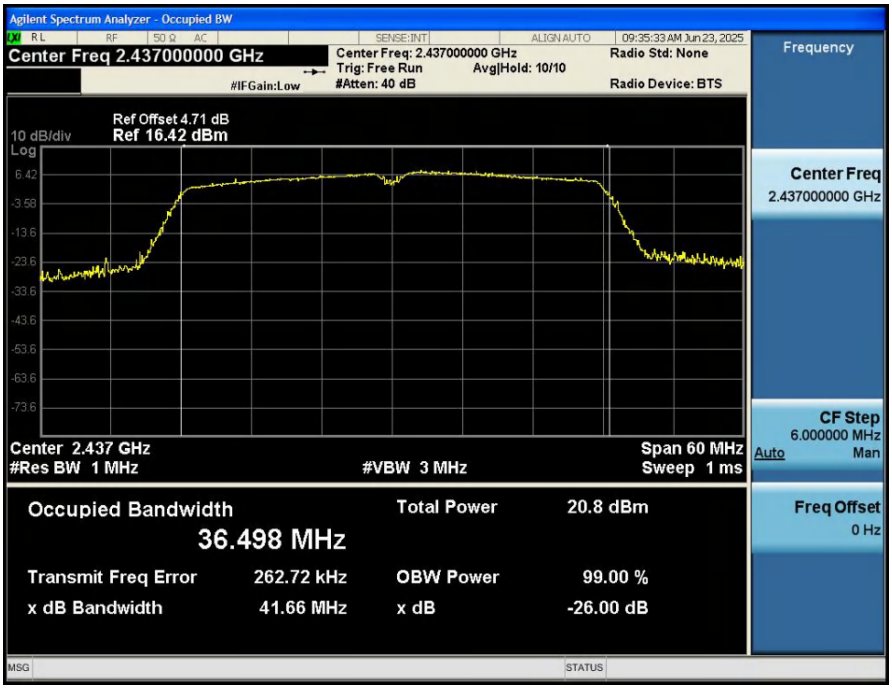
99%_Occupied_Bandwidth_HVNT_ANT1_802_11ax(HE20)_2462



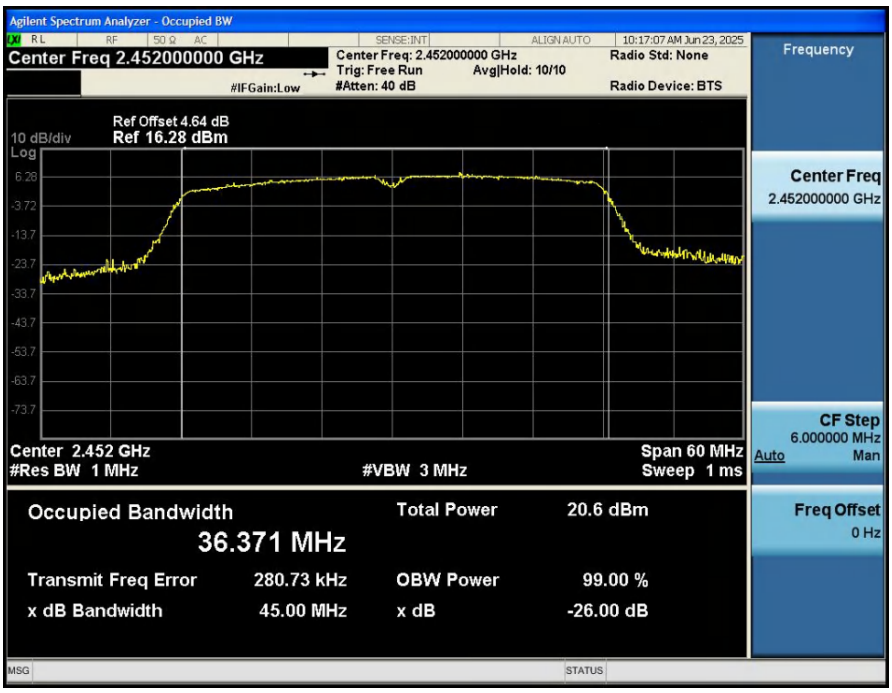
99%_Occupied_Bandwidth_HVNT_ANT1_802_11n(HT40)_2422



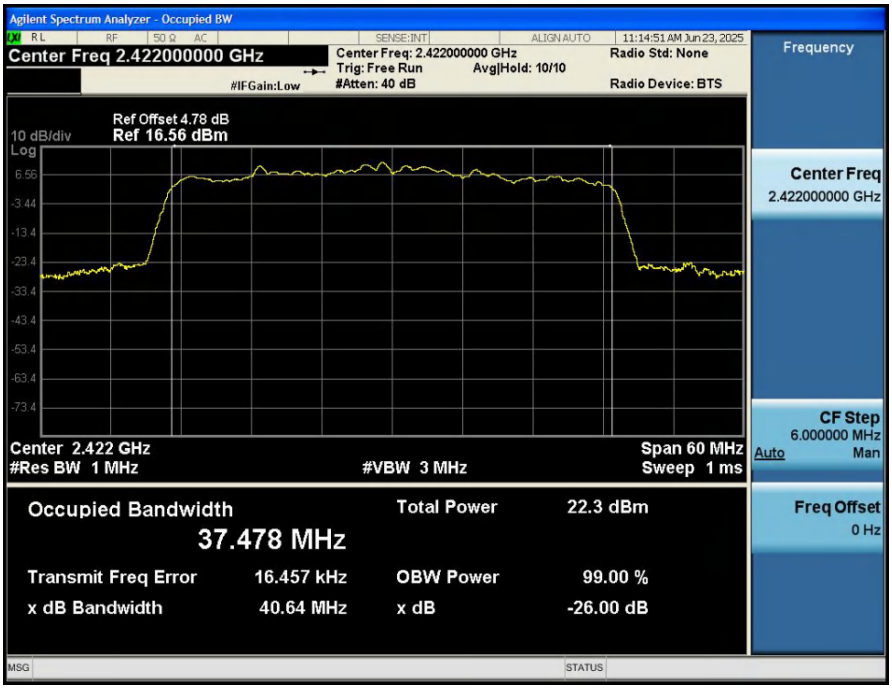
99%_Occupied_Bandwidth_HVNT_ANT1_802_11n(HT40)_2437



99%_Occupied_Bandwidth_HVNT_ANT1_802_11n(HT40)_2452



99%_Occupied_Bandwidth_HVNT_ANT1_802_11ax(HE40)_2422



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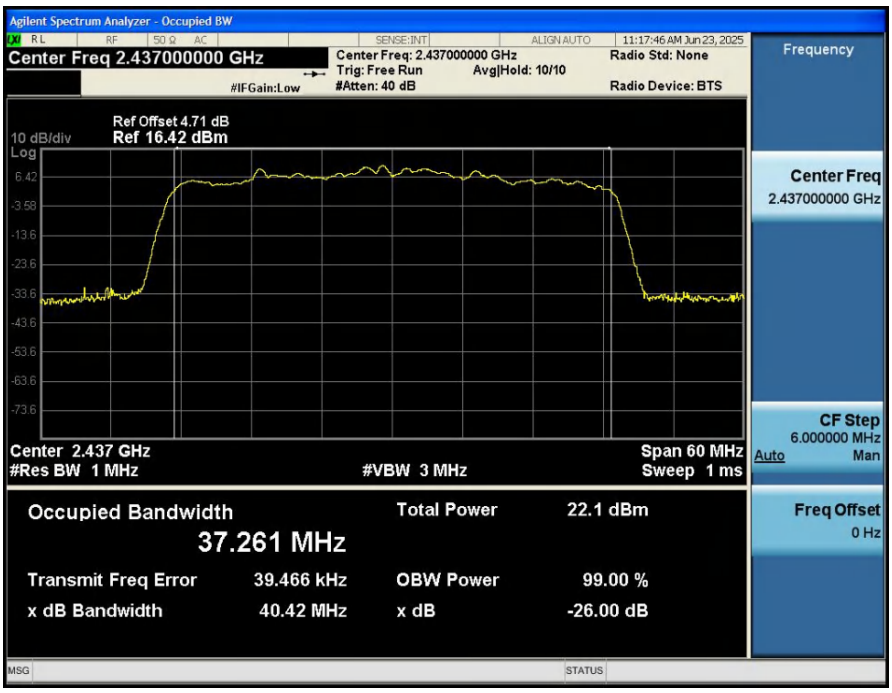
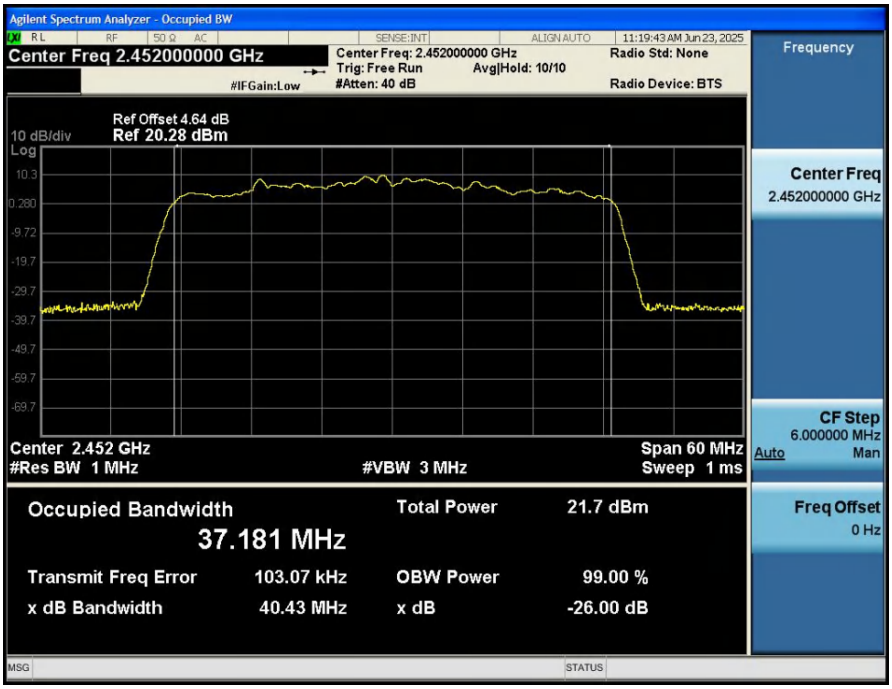


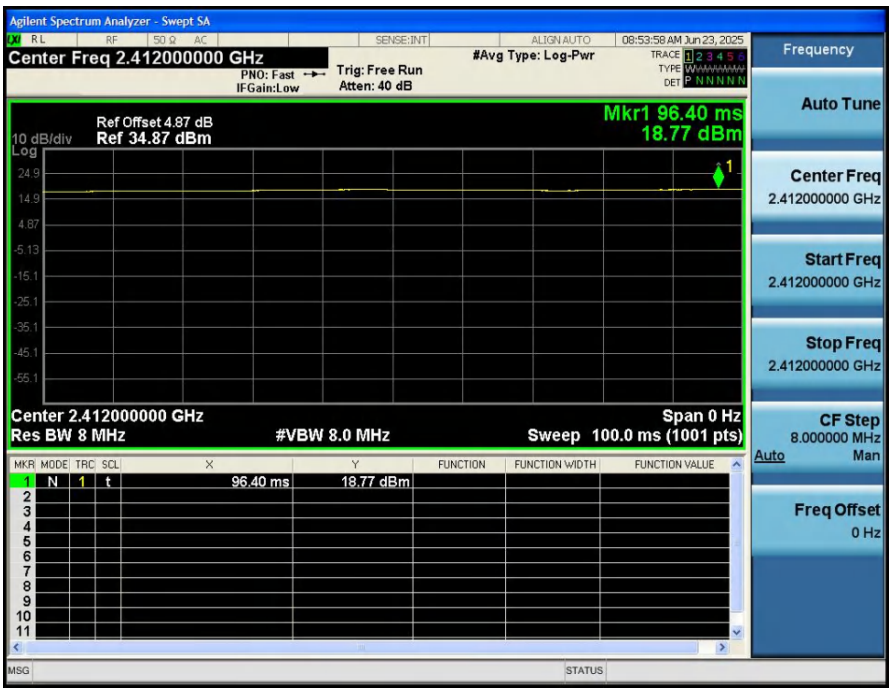
99%_Occupied_Bandwidth_HVNT_ANT1_802_11ax(HE40)_2452



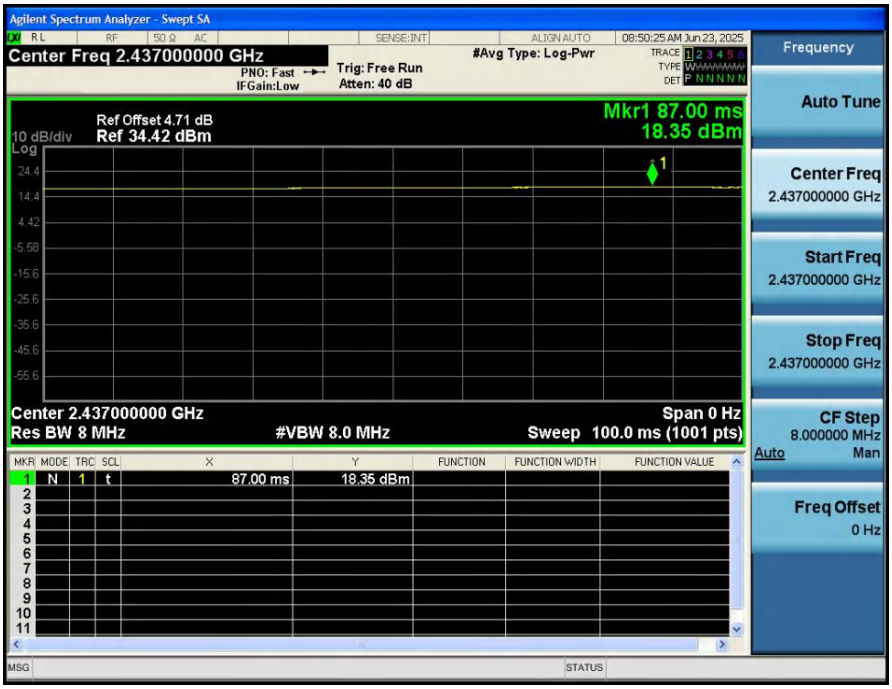
Appendix C: Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
HVNT	ANT1	802.11b	2412.00	100	0.00
HVNT	ANT1	802.11b	2437.00	100	0.00
HVNT	ANT1	802.11b	2462.00	100	0.00
HVNT	ANT1	802.11g	2412.00	100	0.00
HVNT	ANT1	802.11g	2437.00	100	0.00
HVNT	ANT1	802.11g	2462.00	100	0.00
HVNT	ANT1	802.11n(HT20)	2412.00	100	0.00
HVNT	ANT1	802.11n(HT20)	2437.00	100	0.00
HVNT	ANT1	802.11n(HT20)	2462.00	100	0.00
HVNT	ANT1	802.11ax(HEW20)	2412.00	100	0.00
HVNT	ANT1	802.11ax(HEW20)	2437.00	100	0.00
HVNT	ANT1	802.11ax(HEW20)	2462.00	100	0.00
HVNT	ANT1	802.11n(HT40)	2422.00	100	0.00
HVNT	ANT1	802.11n(HT40)	2437.00	100	0.00
HVNT	ANT1	802.11n(HT40)	2452.00	100	0.00
HVNT	ANT1	802.11ax(HEW40)	2422.00	100	0.00
HVNT	ANT1	802.11ax(HEW40)	2437.00	100	0.00
HVNT	ANT1	802.11ax(HEW40)	2452.00	100	0.00

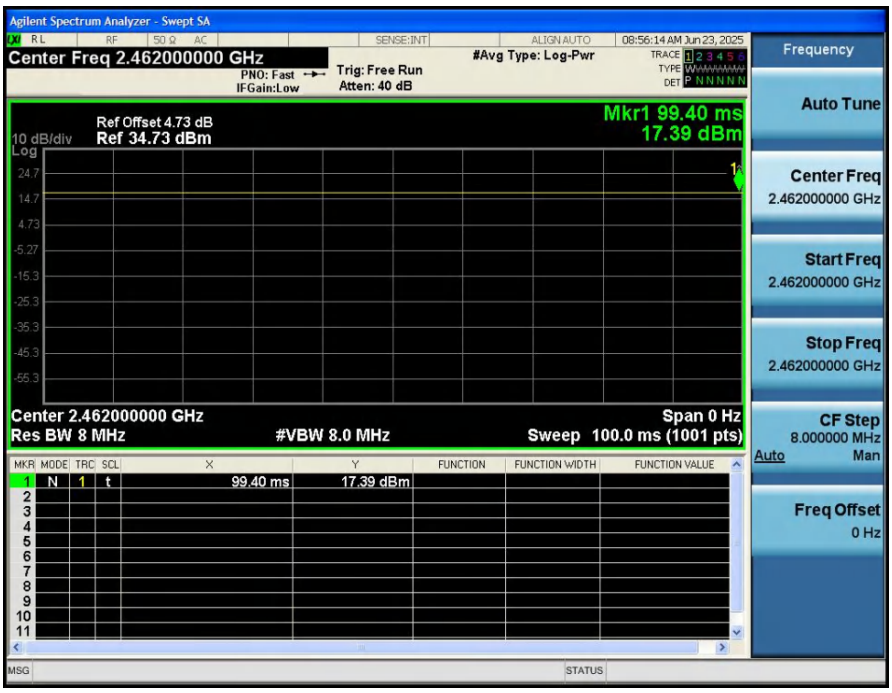
Duty_Cycle_HVNT_ANT1_802_11b_2412



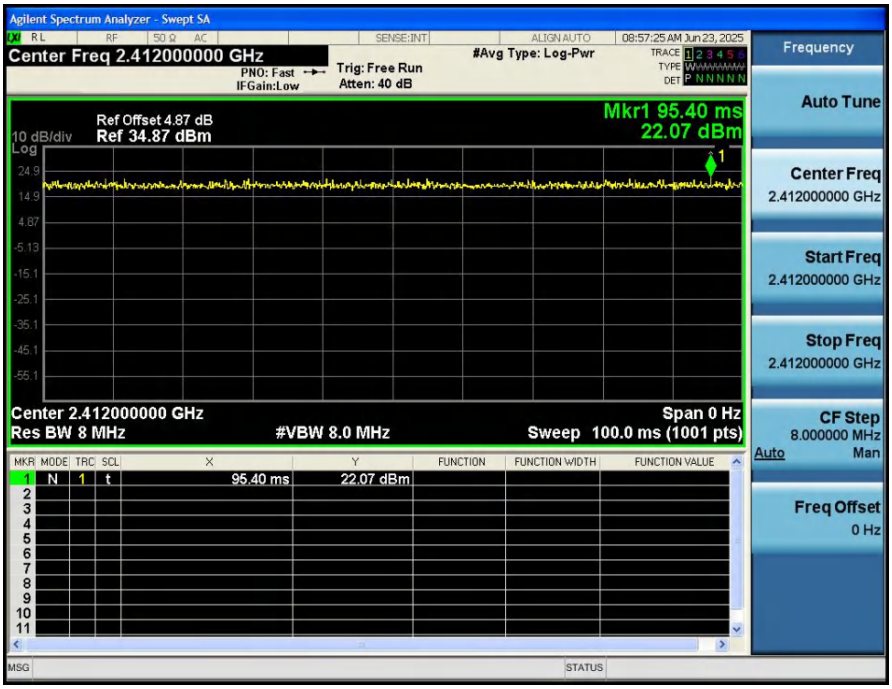
Duty_Cycle_HVNT_ANT1_802_11b_2437



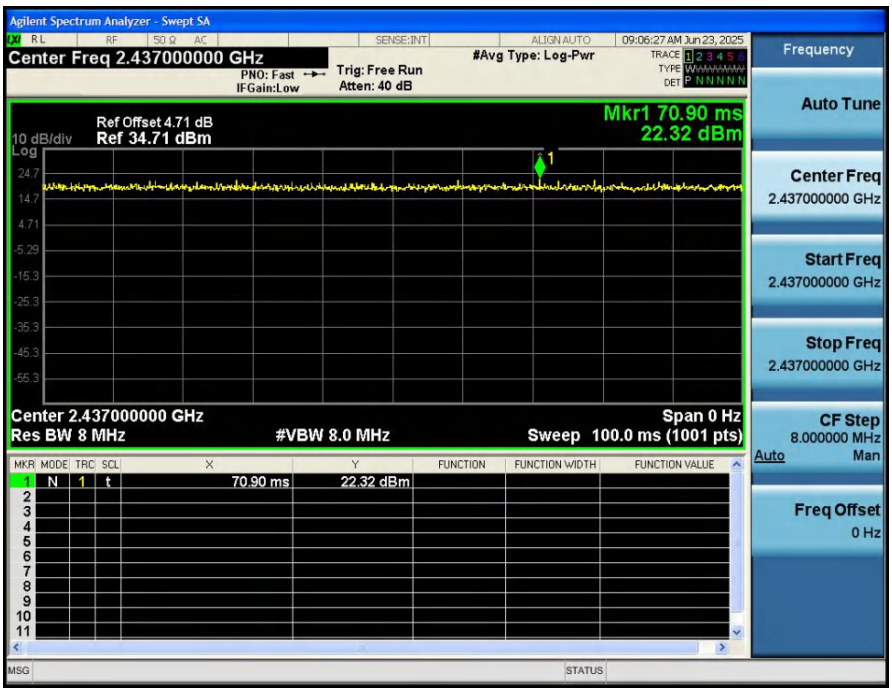
Duty_Cycle_HVNT_ANT1_802_11b_2462



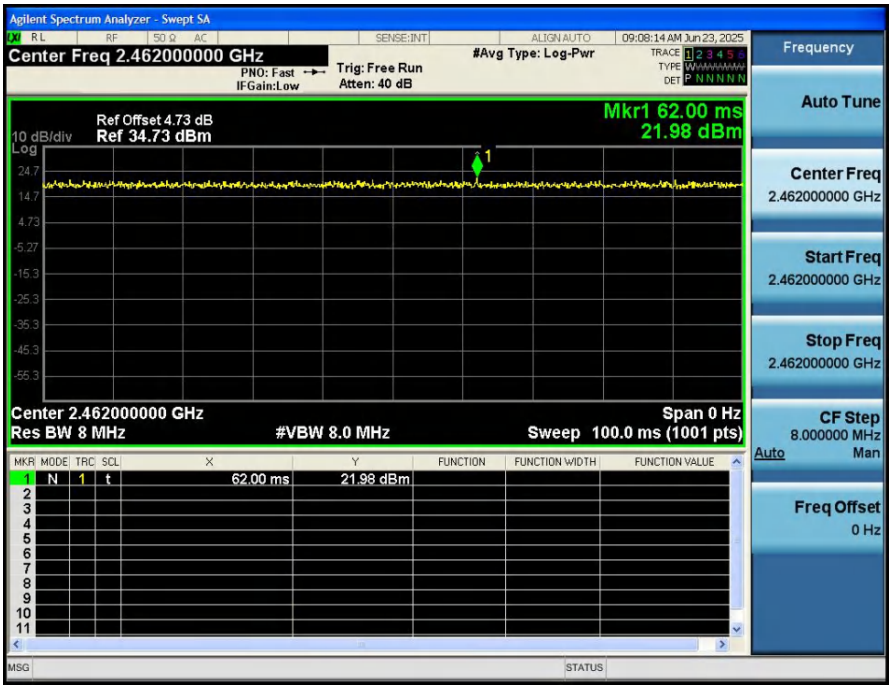
Duty_Cycle_HVNT_ANT1_802_11g_2412



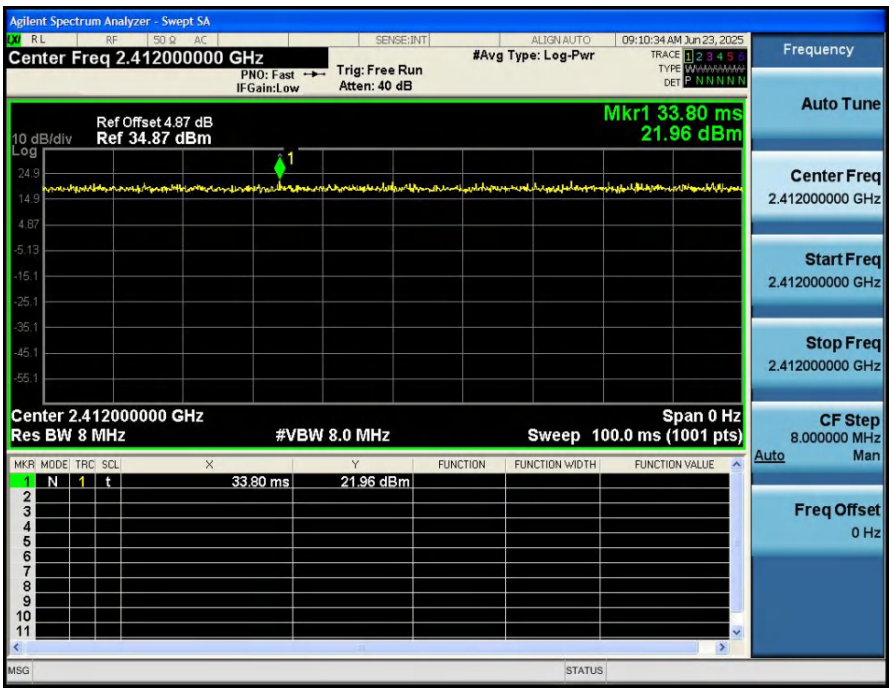
Duty_Cycle_HVNT_ANT1_802_11g_2437



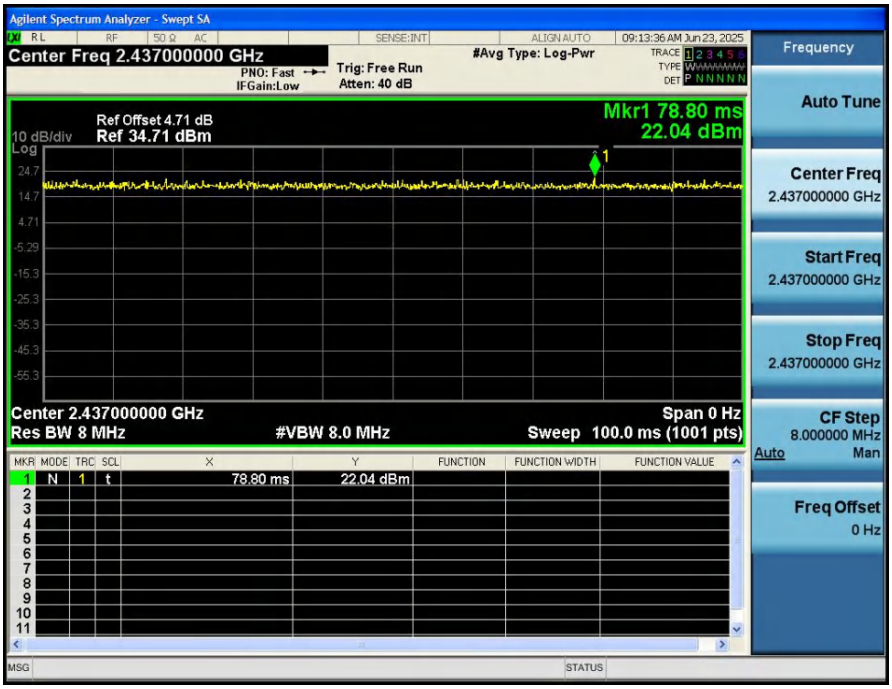
Duty_Cycle_HVNT_ANT1_802_11g_2462



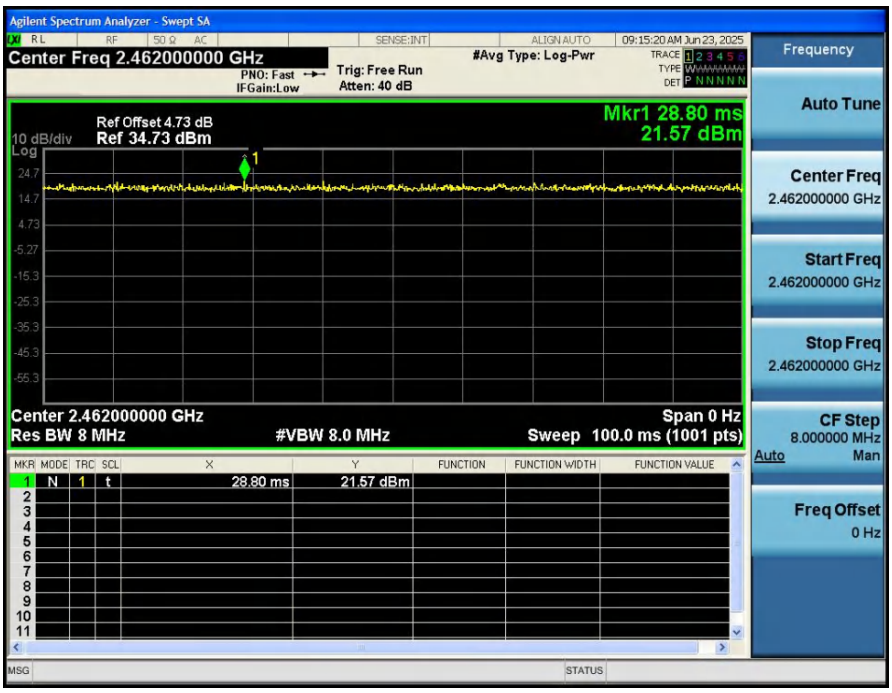
Duty_Cycle_HVNT_ANT1_802_11n(HT20)_2412



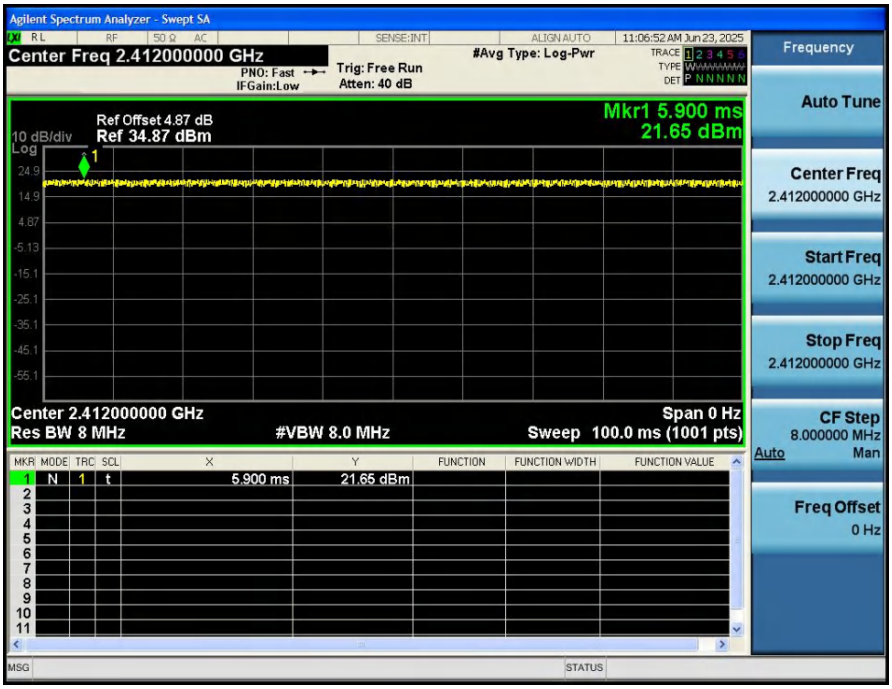
Duty_Cycle_HVNT_ANT1_802_11n(HT20)_2437



Duty_Cycle_HVNT_ANT1_802_11n(HT20)_2462



Duty_Cycle_HVNT_ANT1_802_11ax(HE20)_2412



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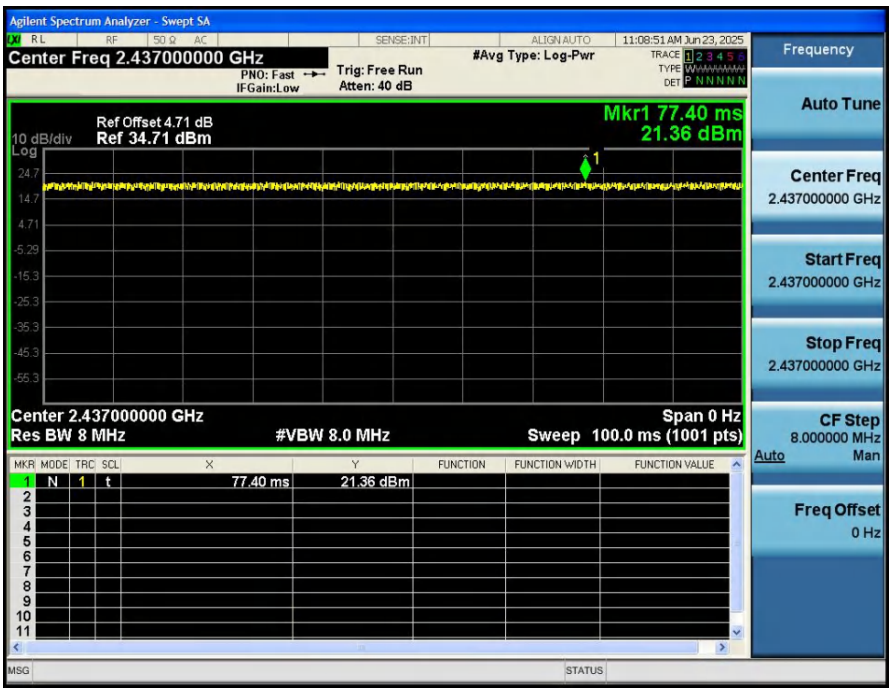

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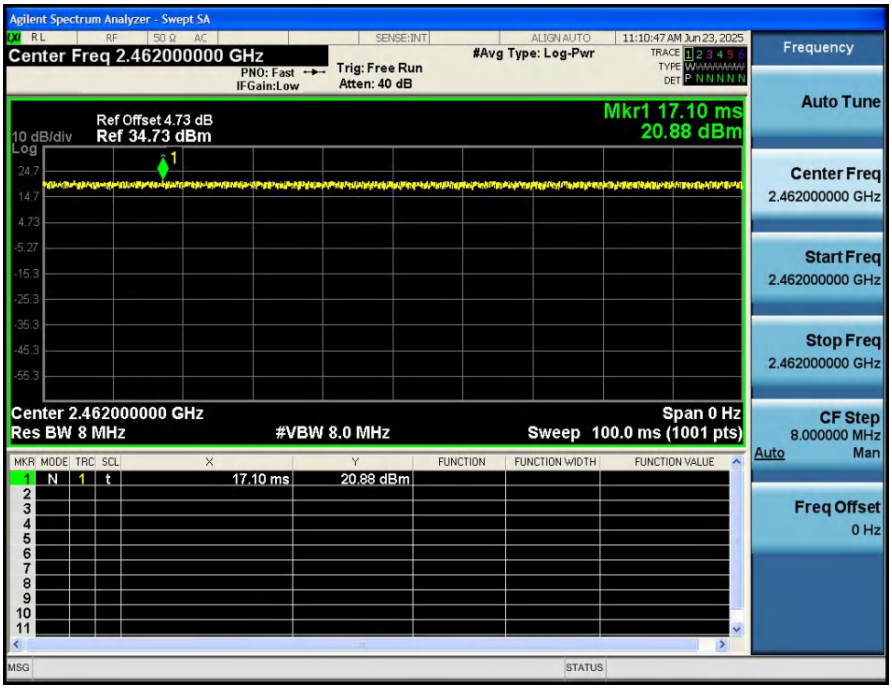
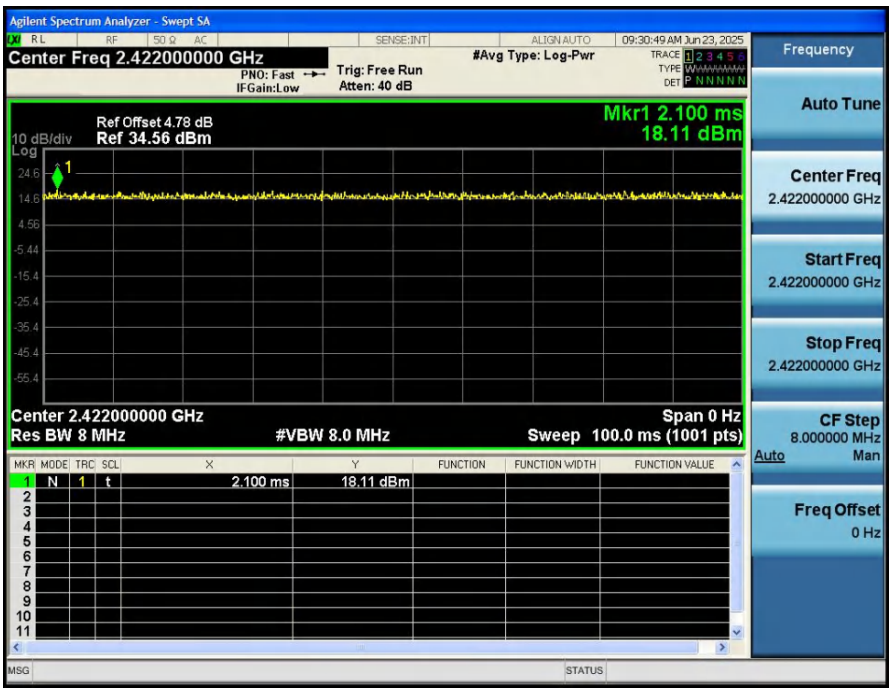
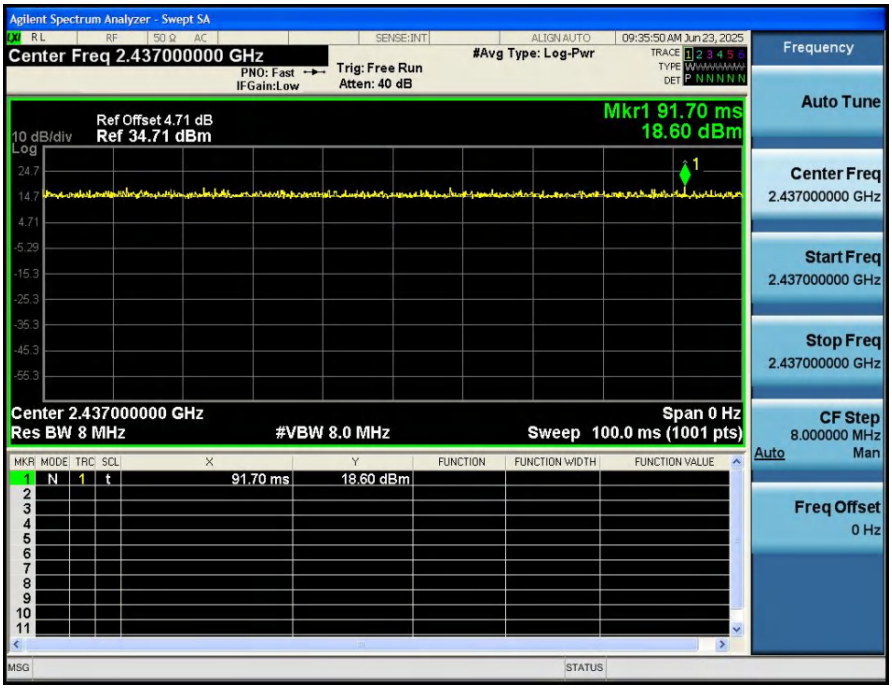


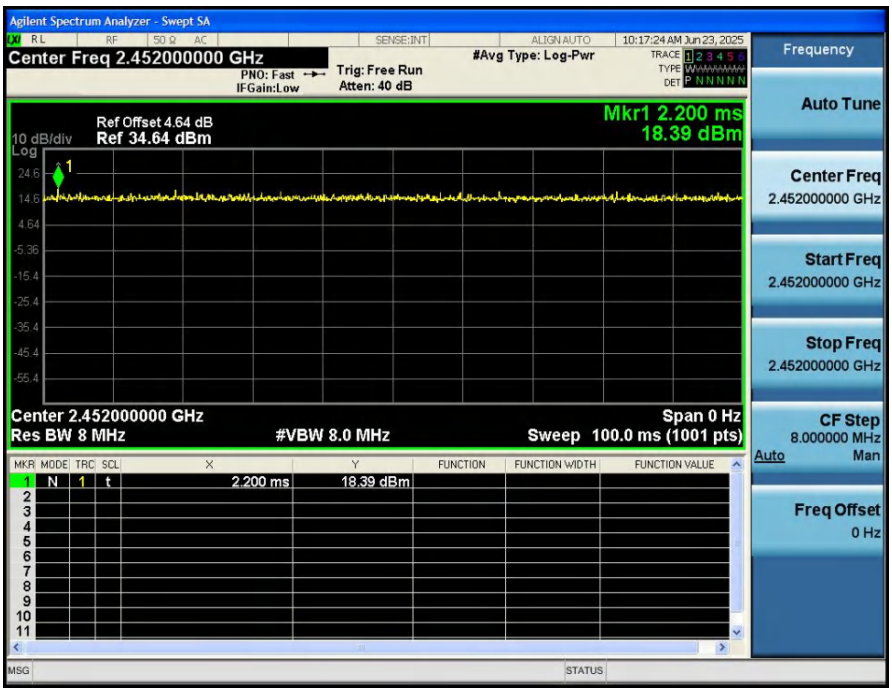
Duty_Cycle_HVNT_ANT1_802_11n(HT40)_2422



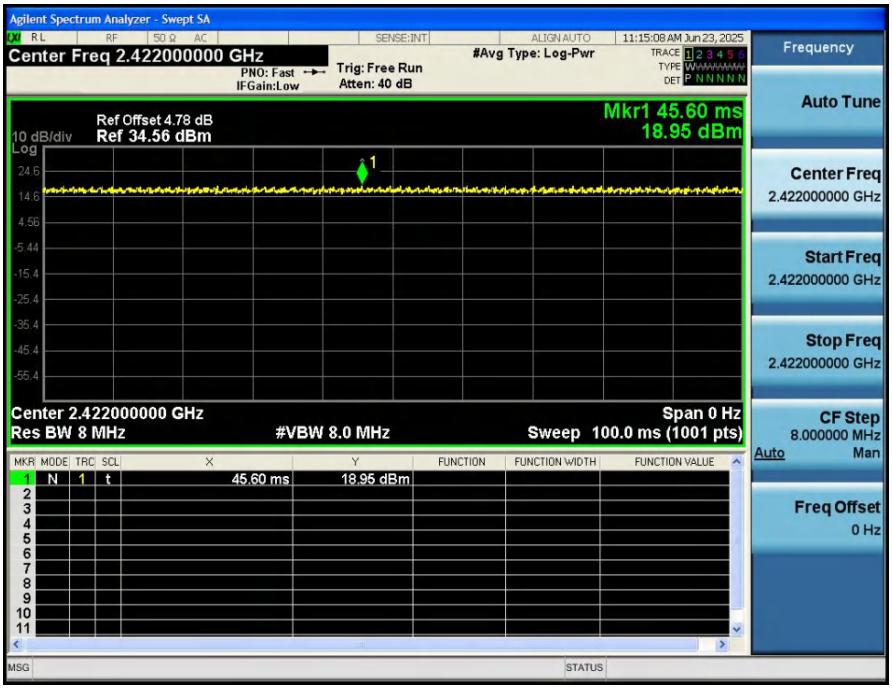
Duty_Cycle_HVNT_ANT1_802_11n(HT40)_2437



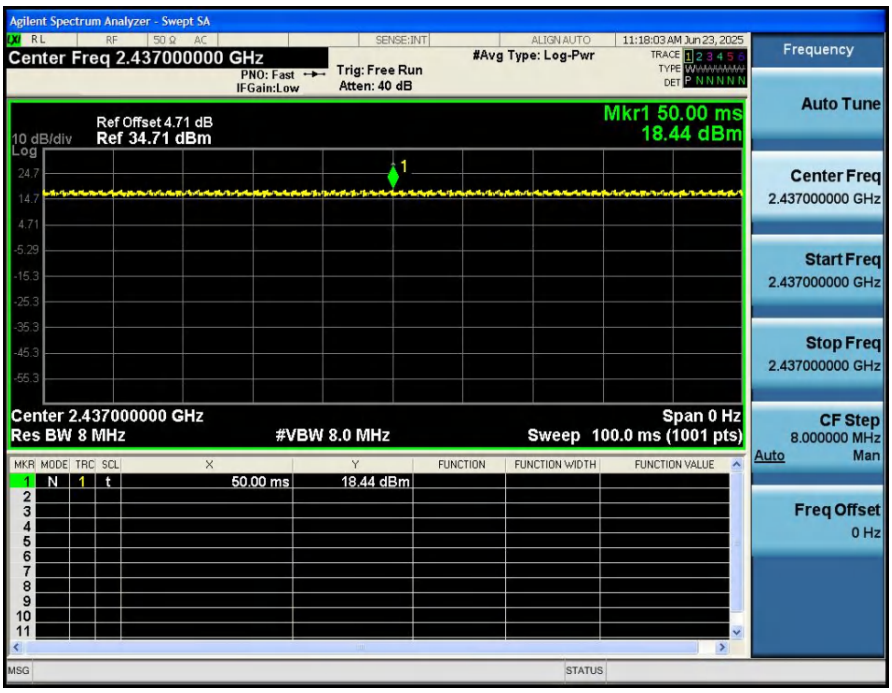
Duty_Cycle_HVNT_ANT1_802_11n(HT40)_2452



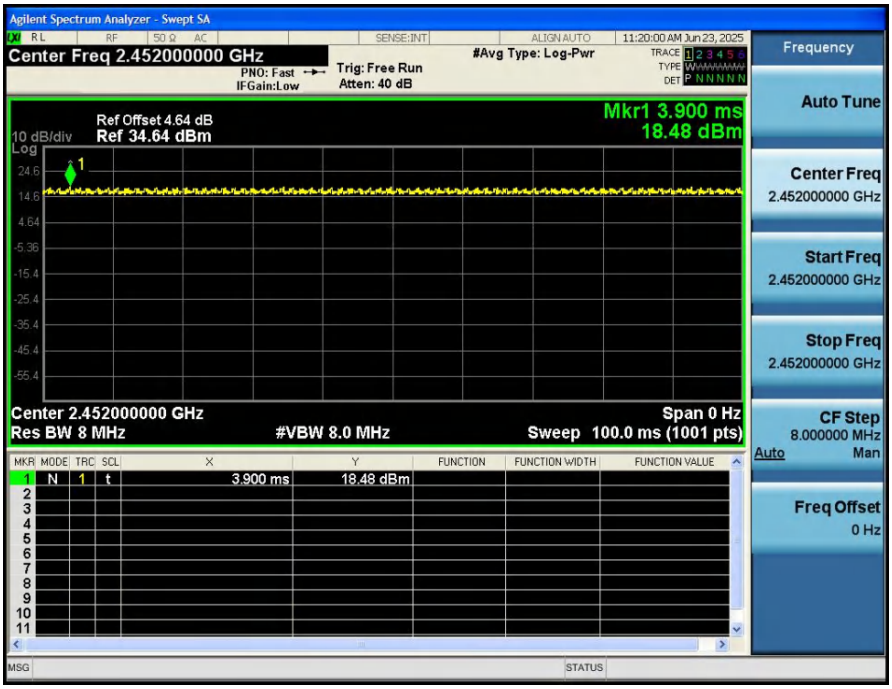
Duty_Cycle_HVNT_ANT1_802_11ax(HE40)_2422



Duty_Cycle_HVNT_ANT1_802_11ax(HE40)_2437



Duty_Cycle_HVNT_ANT1_802_11ax(HE40)_2452

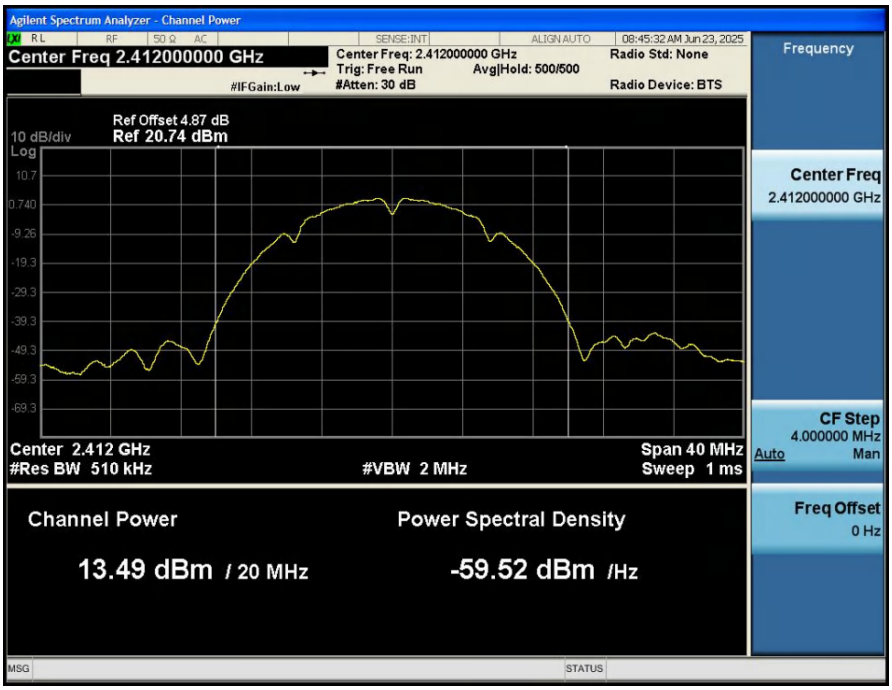


Appendix D: MAX. Output Power

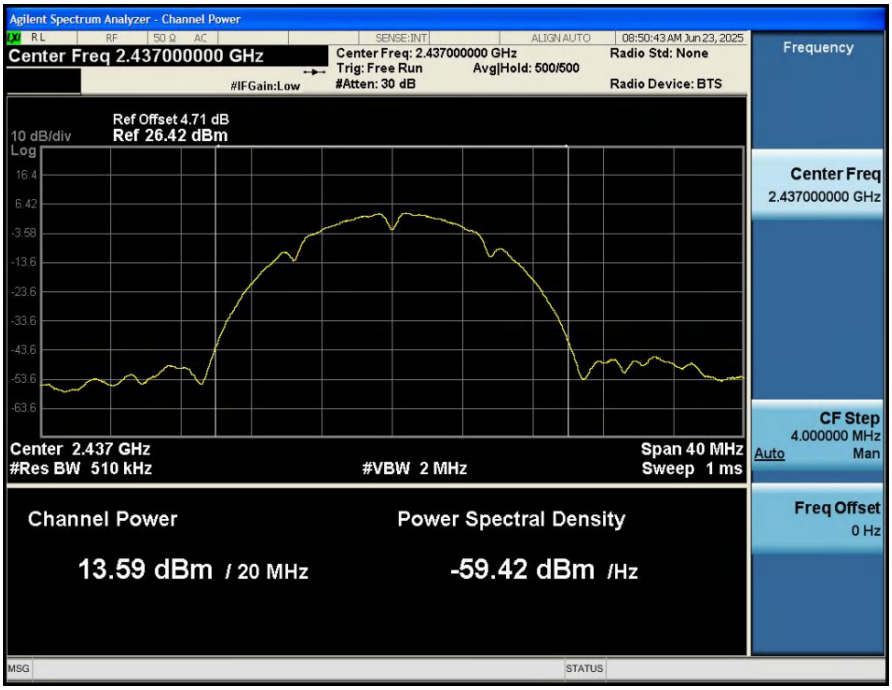
Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	RMS	13.49	0.00	13.49	30	Pass
HVNT	ANT1	802.11b	2437.00	RMS	13.59	0.00	13.59	30	Pass
HVNT	ANT1	802.11b	2462.00	RMS	13.72	0.00	13.72	30	Pass
HVNT	ANT1	802.11g	2412.00	RMS	13.84	0.00	13.84	30	Pass
HVNT	ANT1	802.11g	2437.00	RMS	13.66	0.00	13.66	30	Pass
HVNT	ANT1	802.11g	2462.00	RMS	13.73	0.00	13.73	30	Pass
HVNT	ANT1	802.11n(HT20)	2412.00	RMS	13.75	0.00	13.75	30	Pass
HVNT	ANT1	802.11n(HT20)	2437.00	RMS	13.55	0.00	13.55	30	Pass
HVNT	ANT1	802.11n(HT20)	2462.00	RMS	13.62	0.00	13.62	30	Pass
HVNT	ANT1	802.11ax(HEW20)	2412.00	RMS	14.02	0.00	**14.02**	30	Pass
HVNT	ANT1	802.11ax(HEW20)	2437.00	RMS	13.58	0.00	13.58	30	Pass
HVNT	ANT1	802.11ax(HEW20)	2462.00	RMS	13.21	0.00	13.21	30	Pass
HVNT	ANT1	802.11n(HT40)	2422.00	RMS	12.90	0.00	12.90	30	Pass
HVNT	ANT1	802.11n(HT40)	2437.00	RMS	12.84	0.00	12.84	30	Pass
HVNT	ANT1	802.11n(HT40)	2452.00	RMS	12.66	0.00	12.66	30	Pass
HVNT	ANT1	802.11ax(HEW40)	2422.00	RMS	13.81	0.00	13.81	30	Pass
HVNT	ANT1	802.11ax(HEW40)	2437.00	RMS	13.57	0.00	13.57	30	Pass
HVNT	ANT1	802.11ax(HEW40)	2452.00	RMS	13.20	0.00	13.20	30	Pass

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

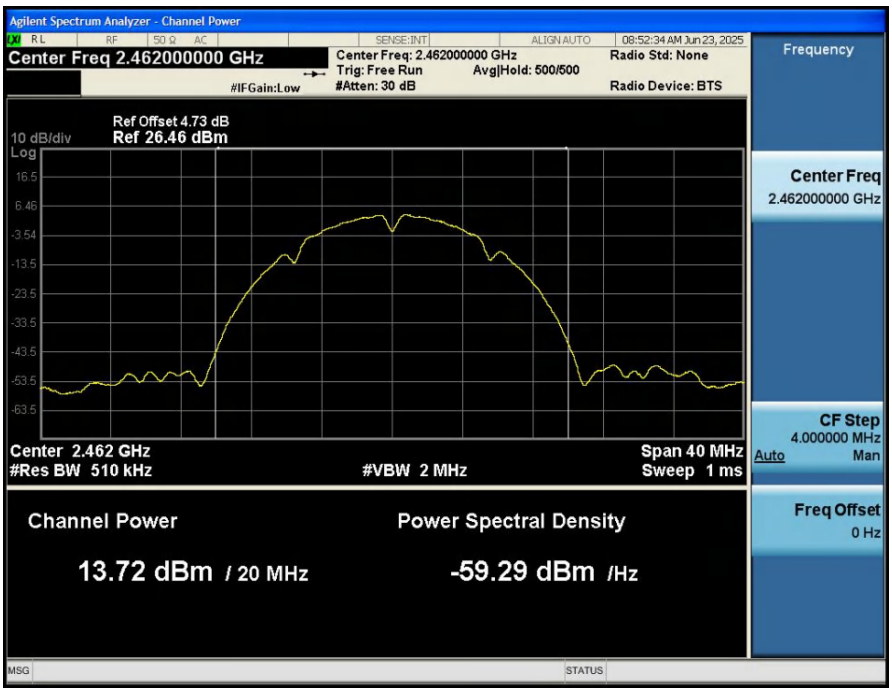
MAX__Output_Power_NVNT_ANT1_802_11b_2412



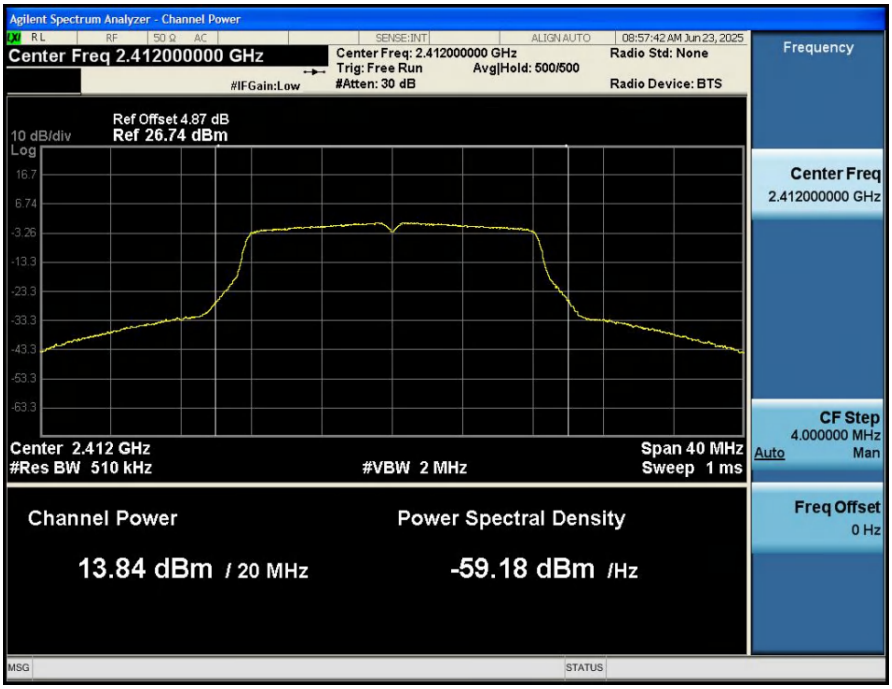
MAX__Output_Power_HVNT_ANT1_802_11b_2437



MAX__Output_Power_HVNT_ANT1_802_11b_2462



MAX__Output_Power_HVNT_ANT1_802_11g_2412



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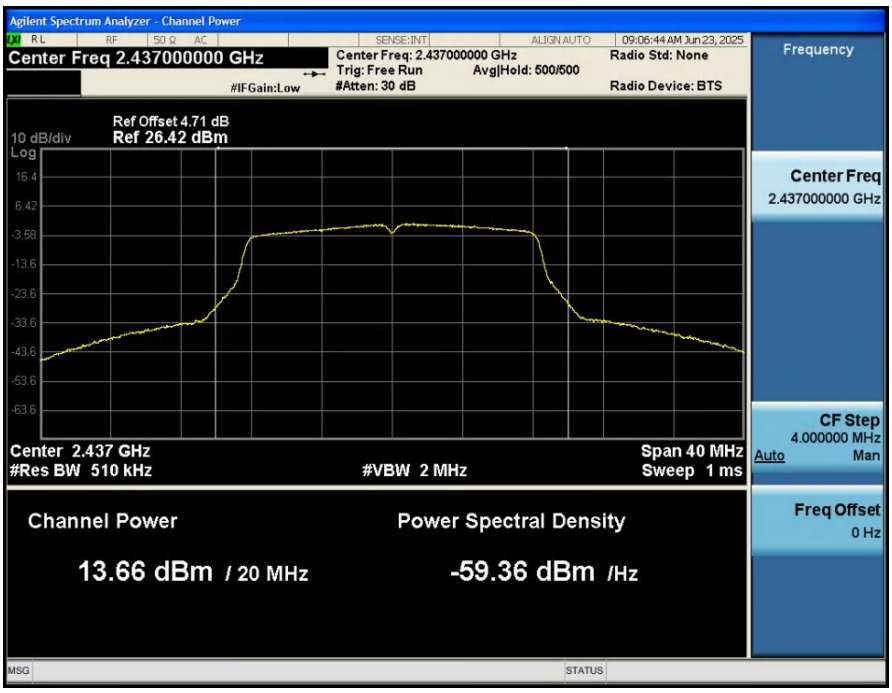

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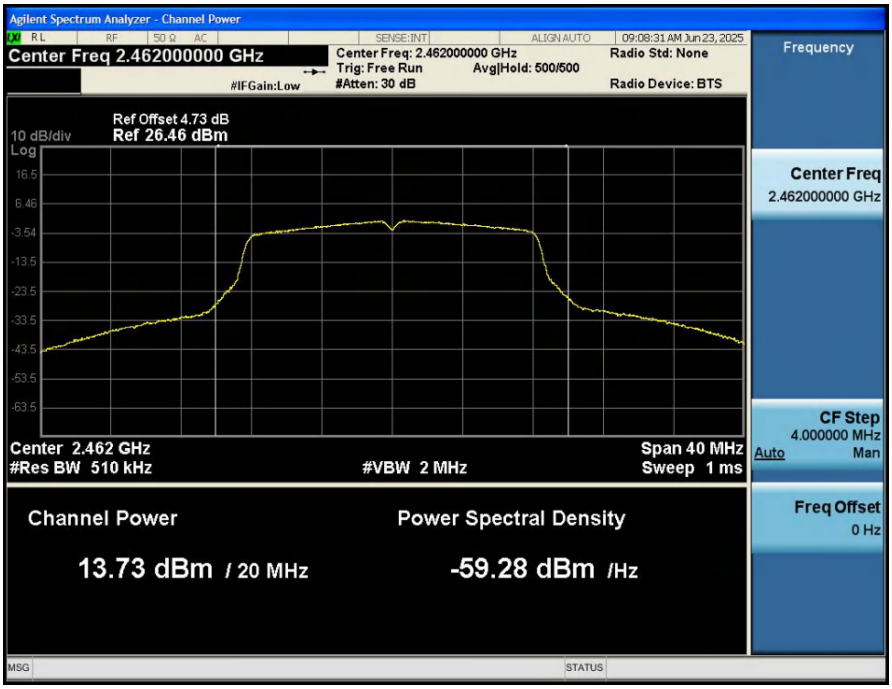
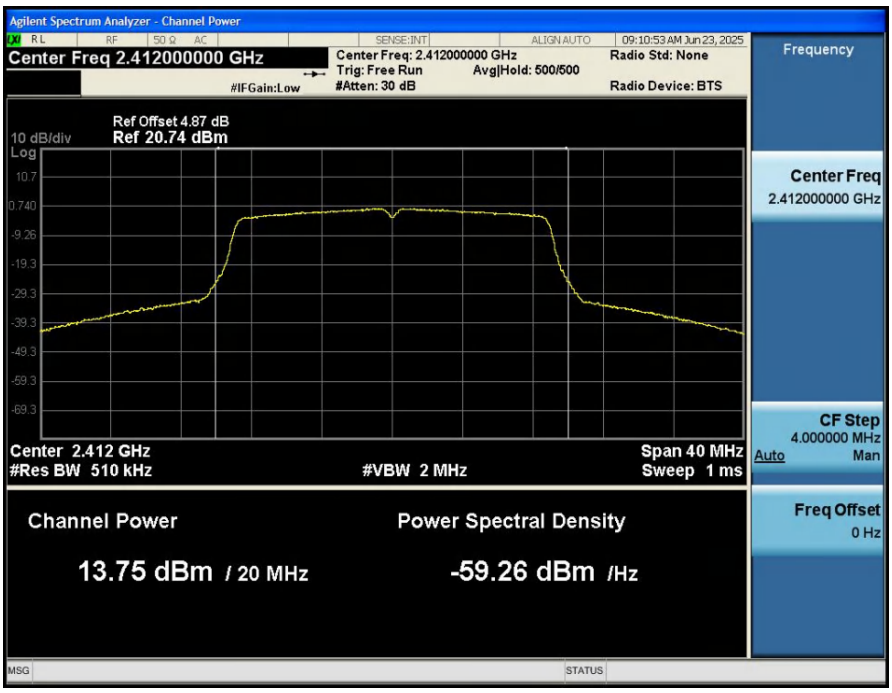


MAX__Output_Power_HVNT_ANT1_802_11n(HT20)_2412



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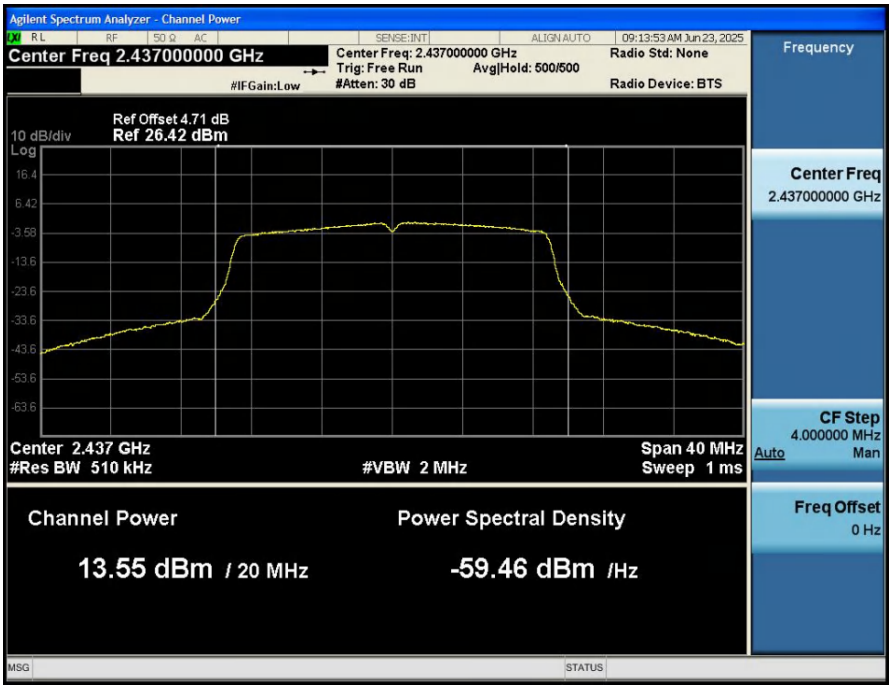
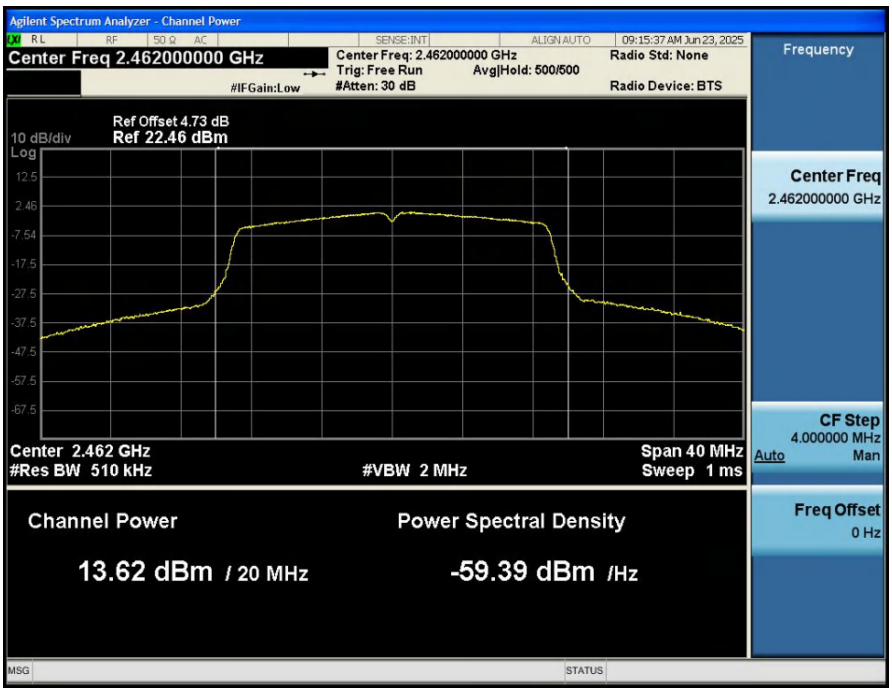
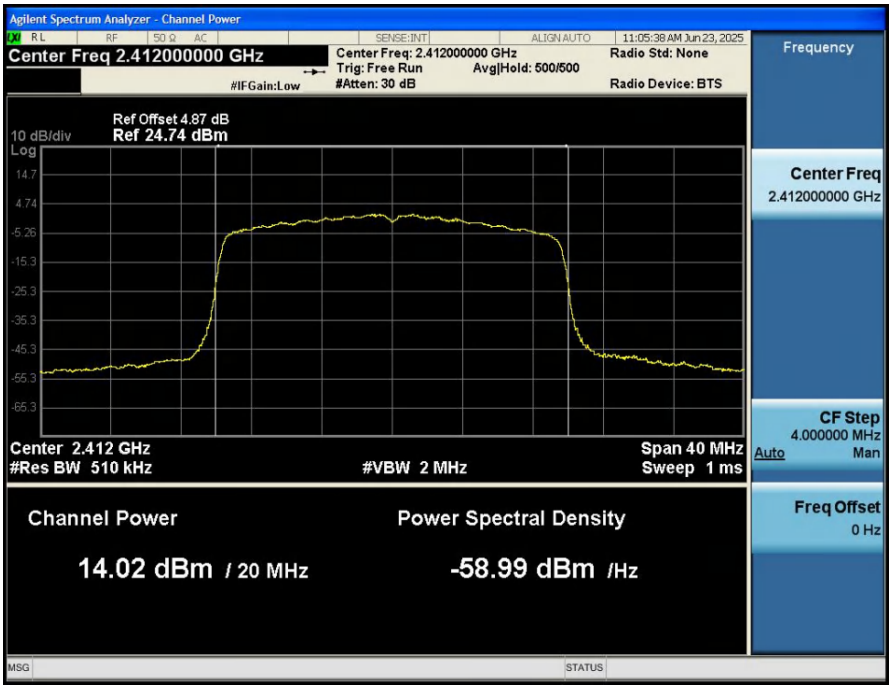


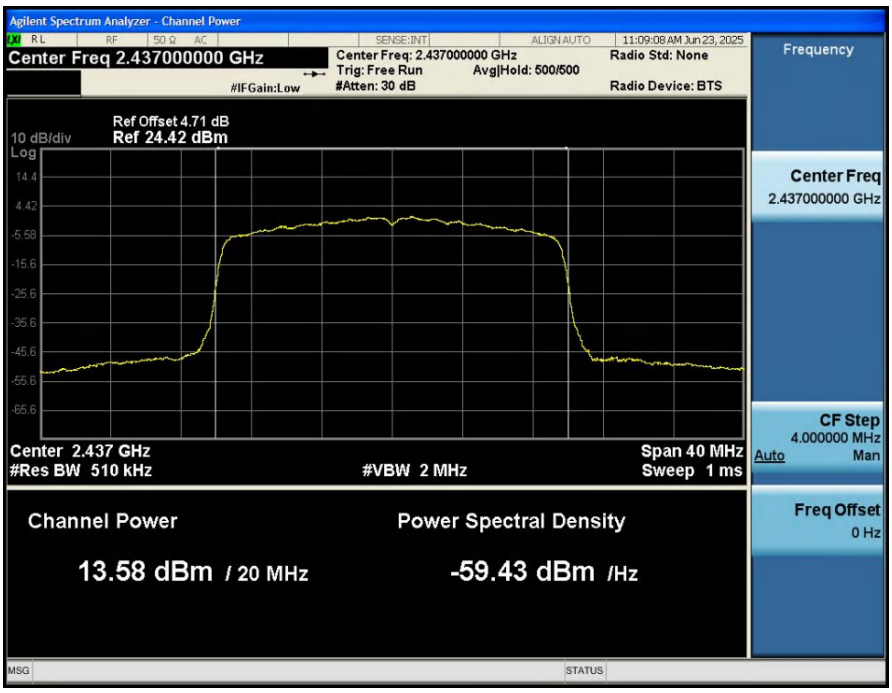
MAX__Output_Power_HVNT_ANT1_802_11n(HT20)_2462



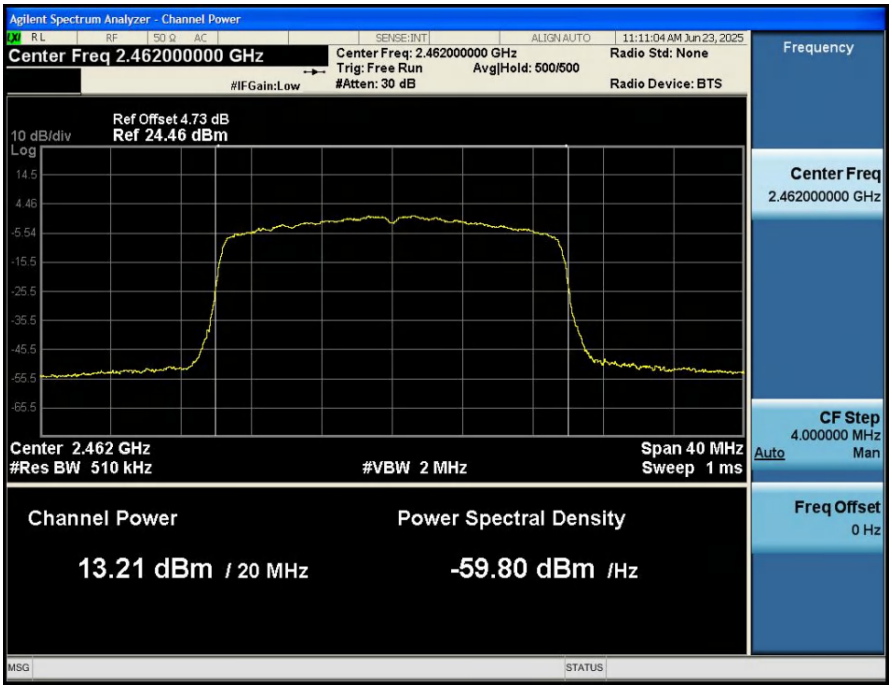
MAX__Output_Power_HVNT_ANT1_802_11ax(HE20)_2412



MAX__Output_Power_HVNT_ANT1_802_11ax(HE20)_2437



MAX__Output_Power_HVNT_ANT1_802_11ax(HE20)_2462



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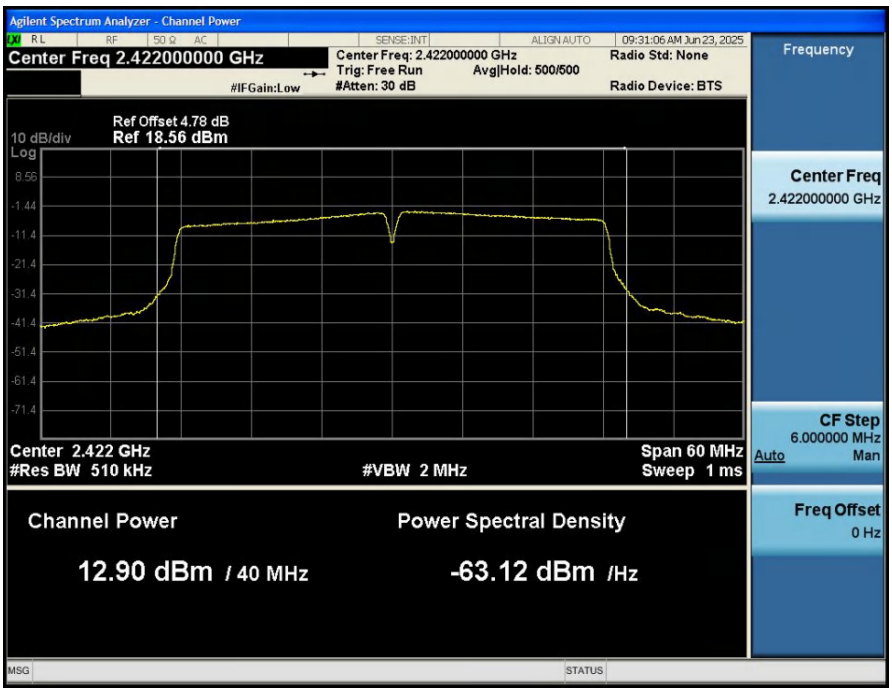
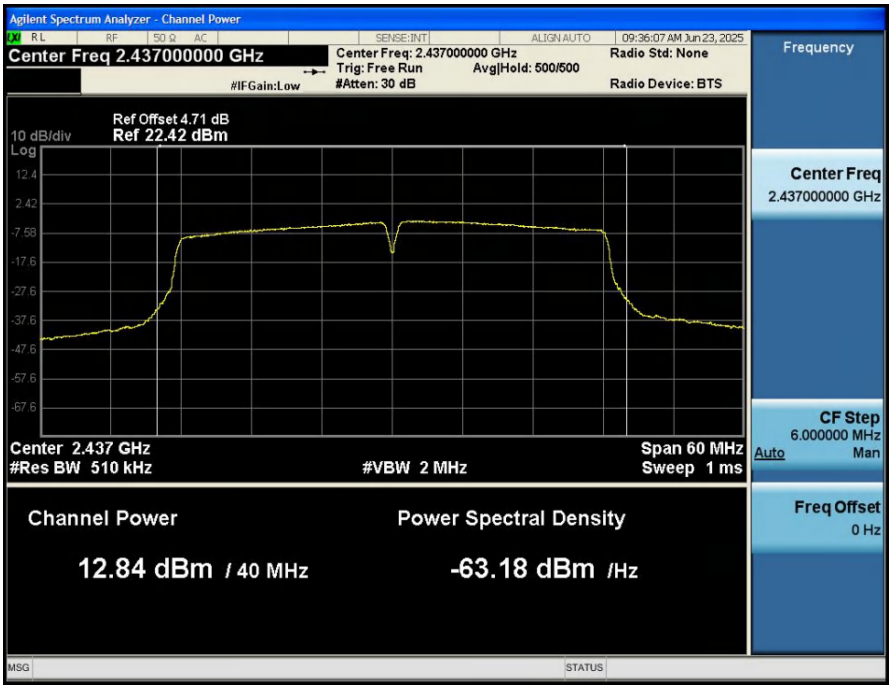


MAX__Output_Power_HVNT_ANT1_802_11n(HT40)_2437



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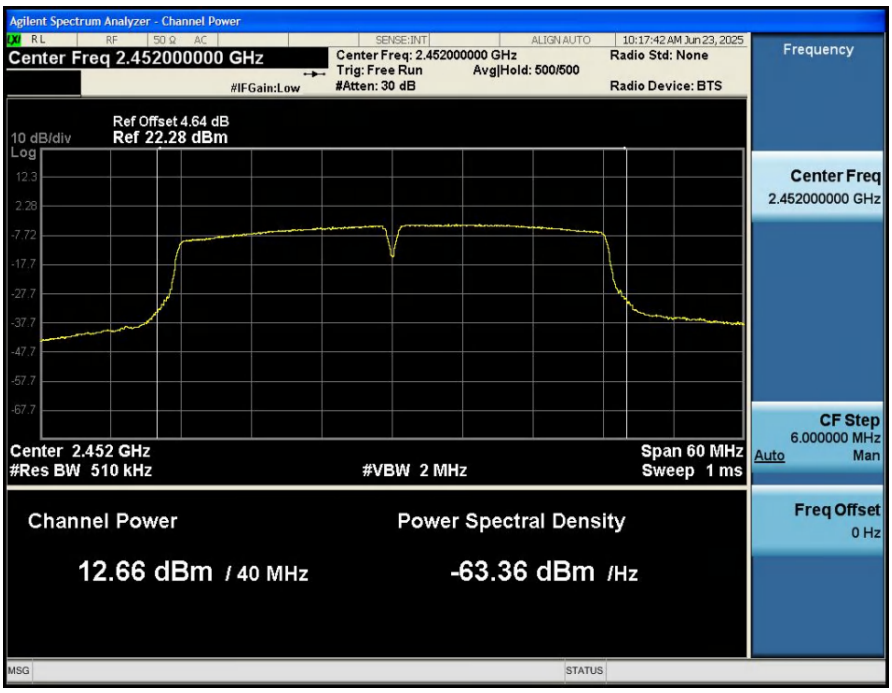
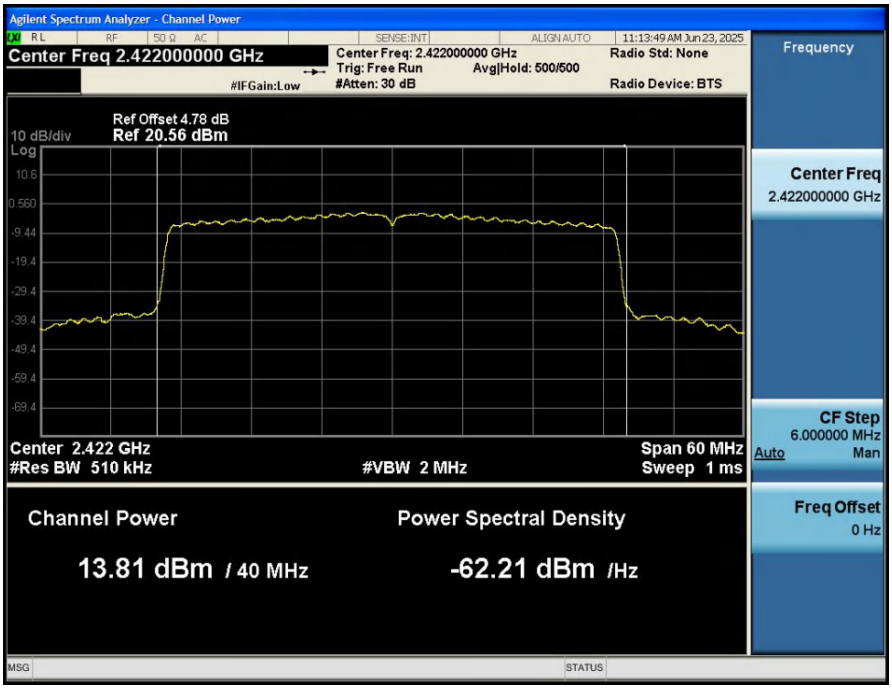
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