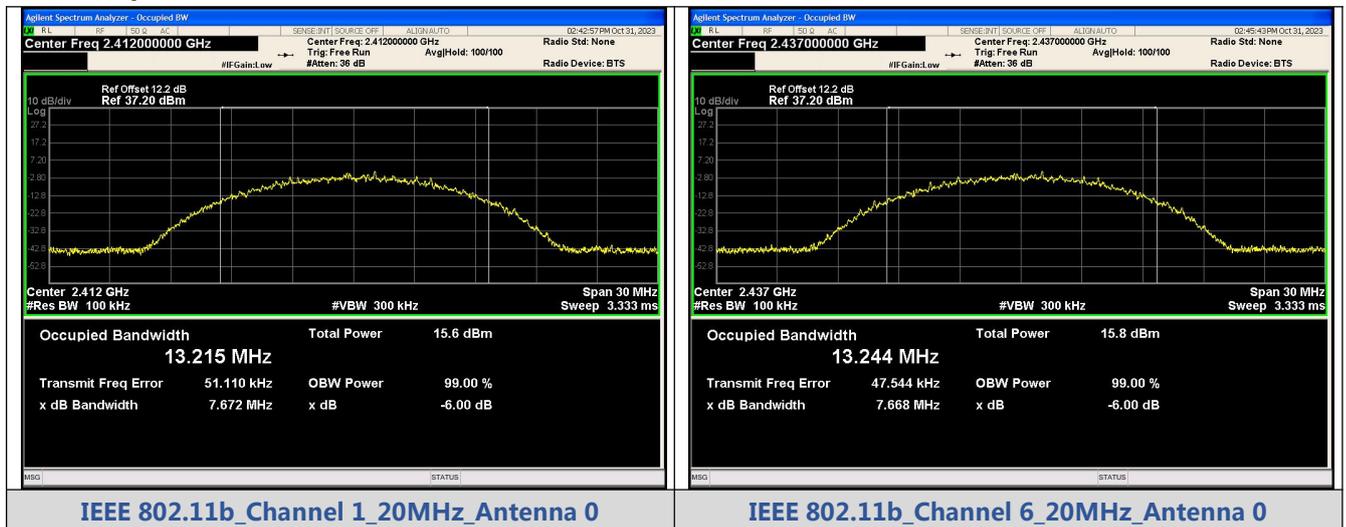


# APPENDIX III.6dB Bandwidth

Antenna 1:  
Test Result

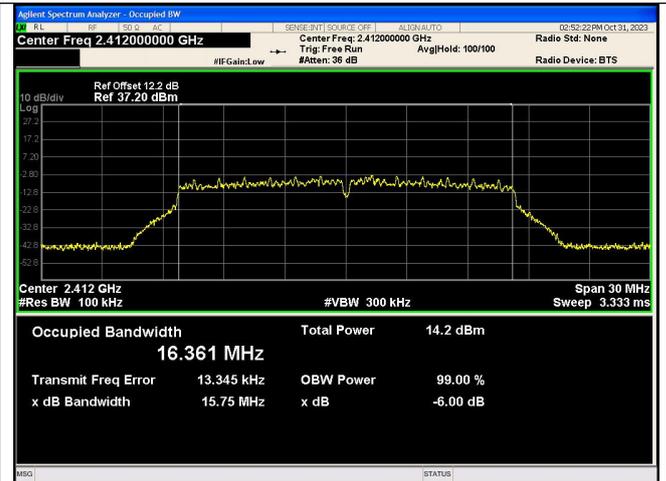
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	1	2412	7.672	0.5	PASS
	6		2437	7.668		PASS
	11		2462	7.669		PASS
IEEE 802.11g	1		2412	15.75		PASS
	6		2437	15.51		PASS
	11		2462	16.04		PASS
IEEE 802.11n_20	1		2412	15.36		PASS
	6		2437	16.54		PASS
	11		2462	16.04		PASS
IEEE 802.11n_40	3		2422	35.37		PASS
	6		2437	35.11		PASS
	9		2452	35.11		PASS

## Test Graphs

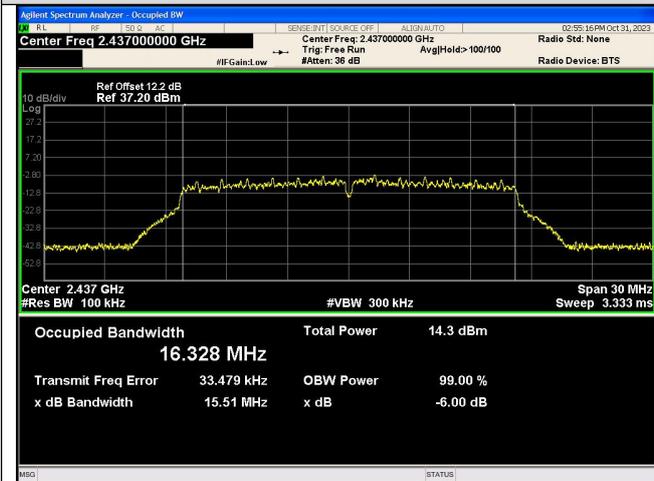




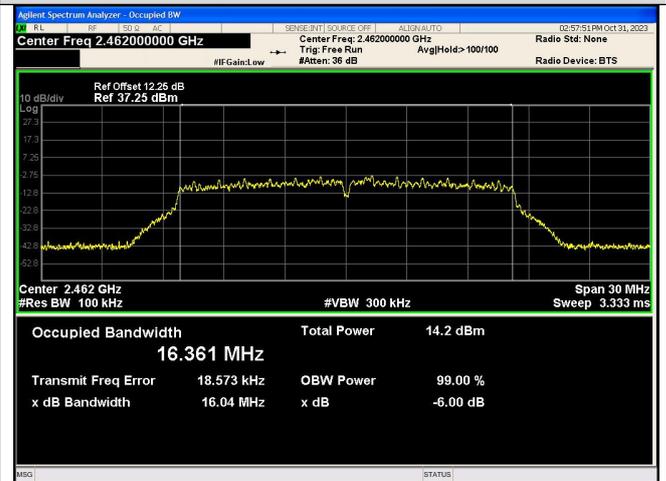
IEEE 802.11b\_Channel 11\_20MHz\_Antenna 0



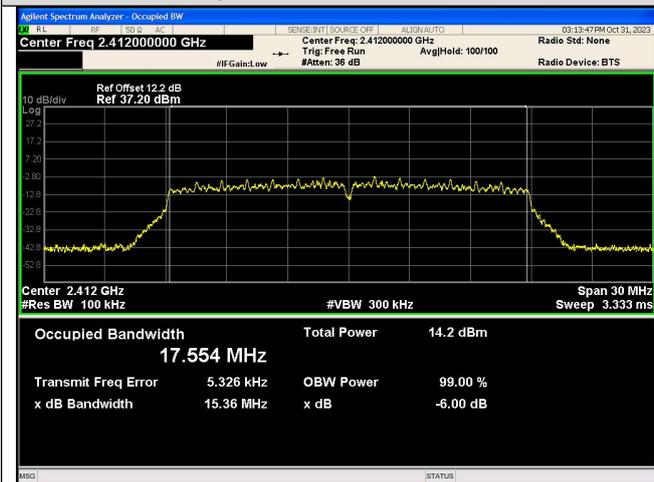
IEEE 802.11g\_Channel 1\_20MHz\_Antenna 0



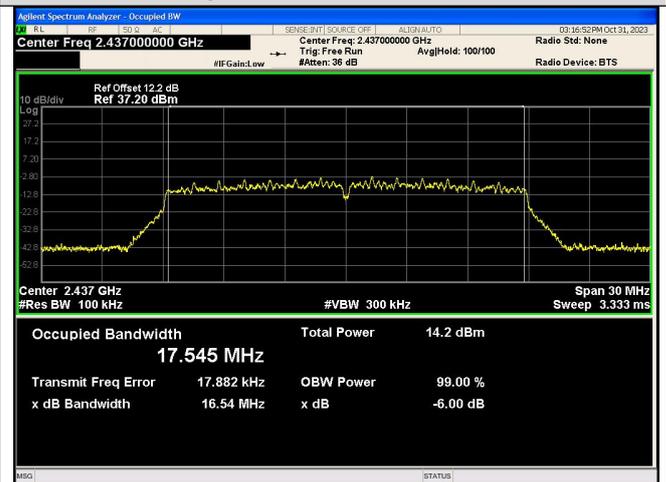
IEEE 802.11g\_Channel 6\_20MHz\_Antenna 0



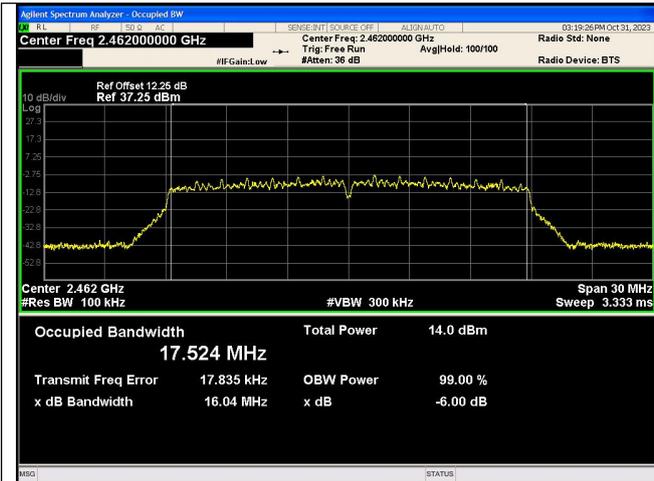
IEEE 802.11g\_Channel 11\_20MHz\_Antenna 0



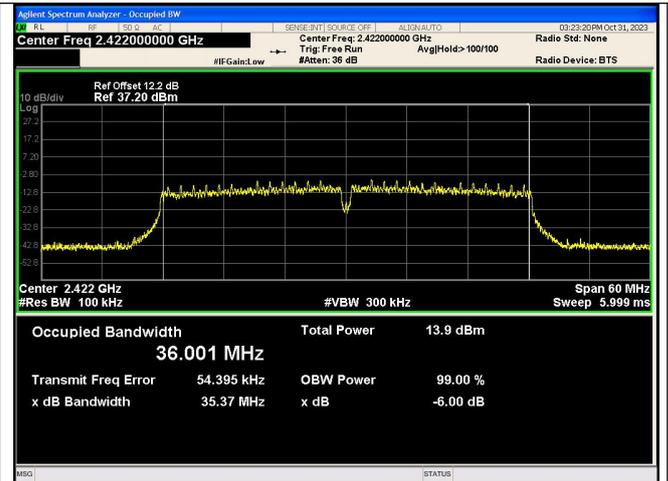
IEEE 802.11n\_Channel 1\_20MHz\_Antenna 0



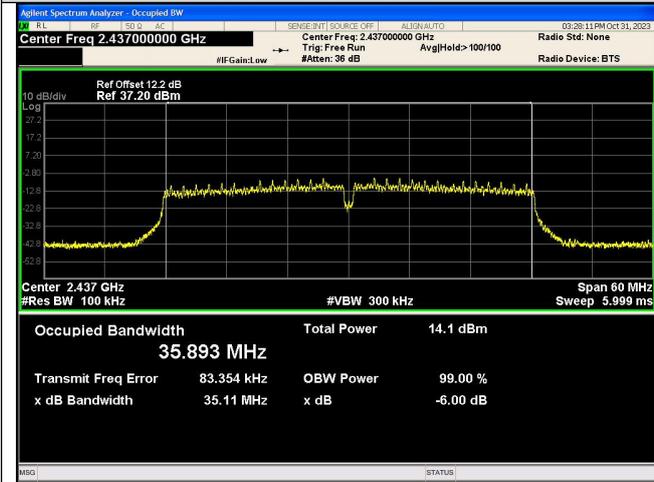
IEEE 802.11n\_Channel 6\_20MHz\_Antenna 0



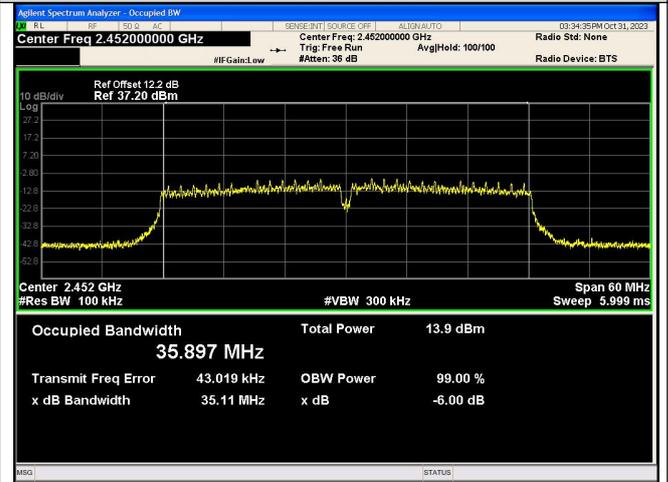
IEEE 802.11n\_Channel 11\_20MHz\_Antenna 0



IEEE 802.11n\_Channel 3\_40MHz\_Antenna 0



IEEE 802.11n\_Channel 6\_40MHz\_Antenna 0



IEEE 802.11n\_Channel 9\_40MHz\_Antenna 0

Antenna 2:  
Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	2	2412	7.675	0.5	PASS
	6		2437	7.621		PASS
	11		2462	8.093		PASS
IEEE 802.11g	1		2412	15.79		PASS
	6		2437	15.57		PASS
	11		2462	16.01		PASS
IEEE 802.11n_20	1		2412	15.95		PASS
	6		2437	16.05		PASS
	11		2462	16.62		PASS
IEEE 802.11n_40	3		2422	35.38		PASS
	6		2437	35.33		PASS
	9		2452	35.12		PASS

Test Graphs

**IEEE 802.11b\_Channel 1\_20MHz\_Antenna 0**

Center Freq: 2.412000000 GHz  
 Occupied Bandwidth: 13.291 MHz  
 Total Power: 15.8 dBm  
 Transmit Freq Error: 5.658 kHz  
 x dB Bandwidth: 7.675 MHz

**IEEE 802.11b\_Channel 6\_20MHz\_Antenna 0**

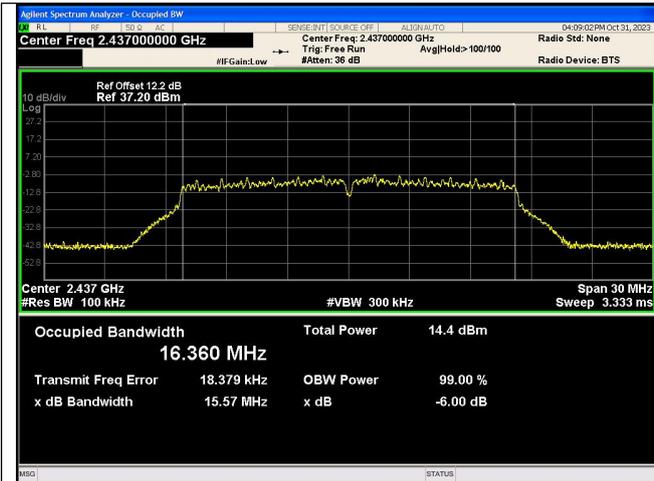
Center Freq: 2.437000000 GHz  
 Occupied Bandwidth: 13.174 MHz  
 Total Power: 15.8 dBm  
 Transmit Freq Error: 76.930 kHz  
 x dB Bandwidth: 7.621 MHz

**IEEE 802.11b\_Channel 11\_20MHz\_Antenna 0**

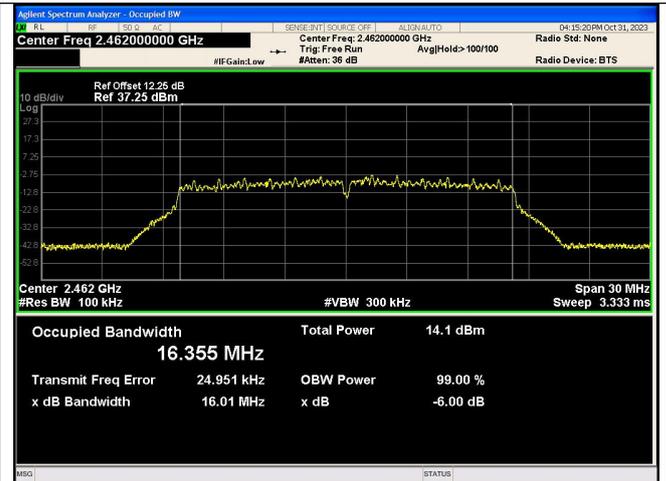
Center Freq: 2.462000000 GHz  
 Occupied Bandwidth: 13.281 MHz  
 Total Power: 15.6 dBm  
 Transmit Freq Error: 22.684 kHz  
 x dB Bandwidth: 8.093 MHz

**IEEE 802.11g\_Channel 1\_20MHz\_Antenna 0**

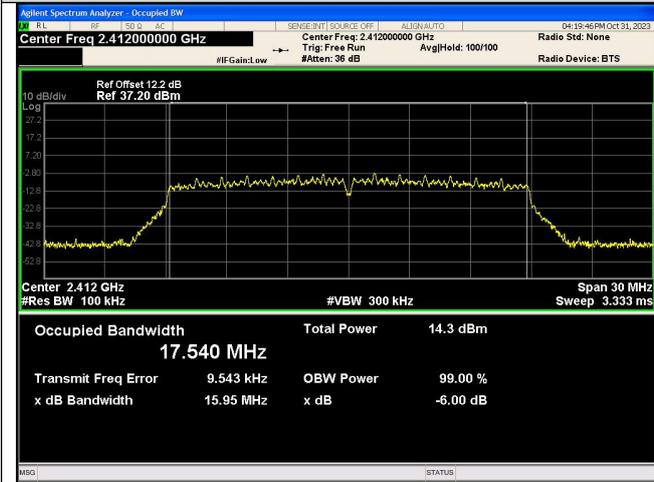
Center Freq: 2.412000000 GHz  
 Occupied Bandwidth: 16.362 MHz  
 Total Power: 14.3 dBm  
 Transmit Freq Error: 14.760 kHz  
 x dB Bandwidth: 15.79 MHz



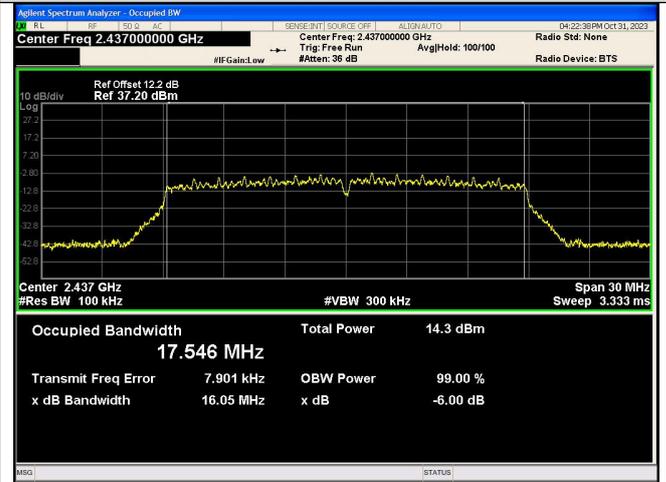
IEEE 802.11g\_Channel 6\_20MHz\_Antenna 0



IEEE 802.11g\_Channel 11\_20MHz\_Antenna 0



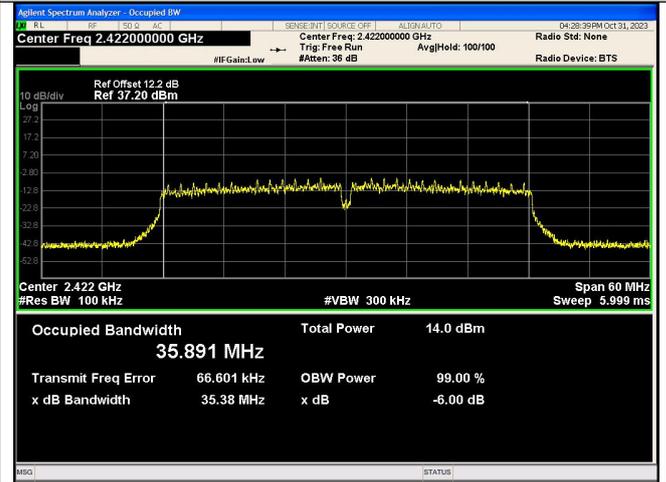
IEEE 802.11n\_Channel 1\_20MHz\_Antenna 0



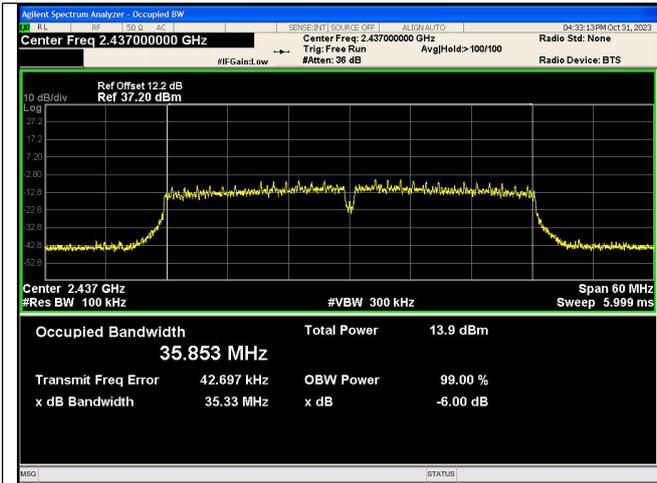
IEEE 802.11n\_Channel 6\_20MHz\_Antenna 0



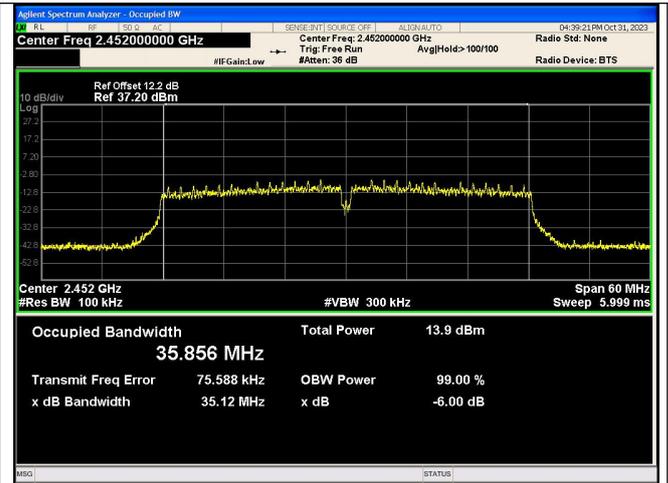
IEEE 802.11n\_Channel 11\_20MHz\_Antenna 0



IEEE 802.11n\_Channel 3\_40MHz\_Antenna 0



IEEE 802.11n\_Channel 6\_40MHz\_Antenna 0



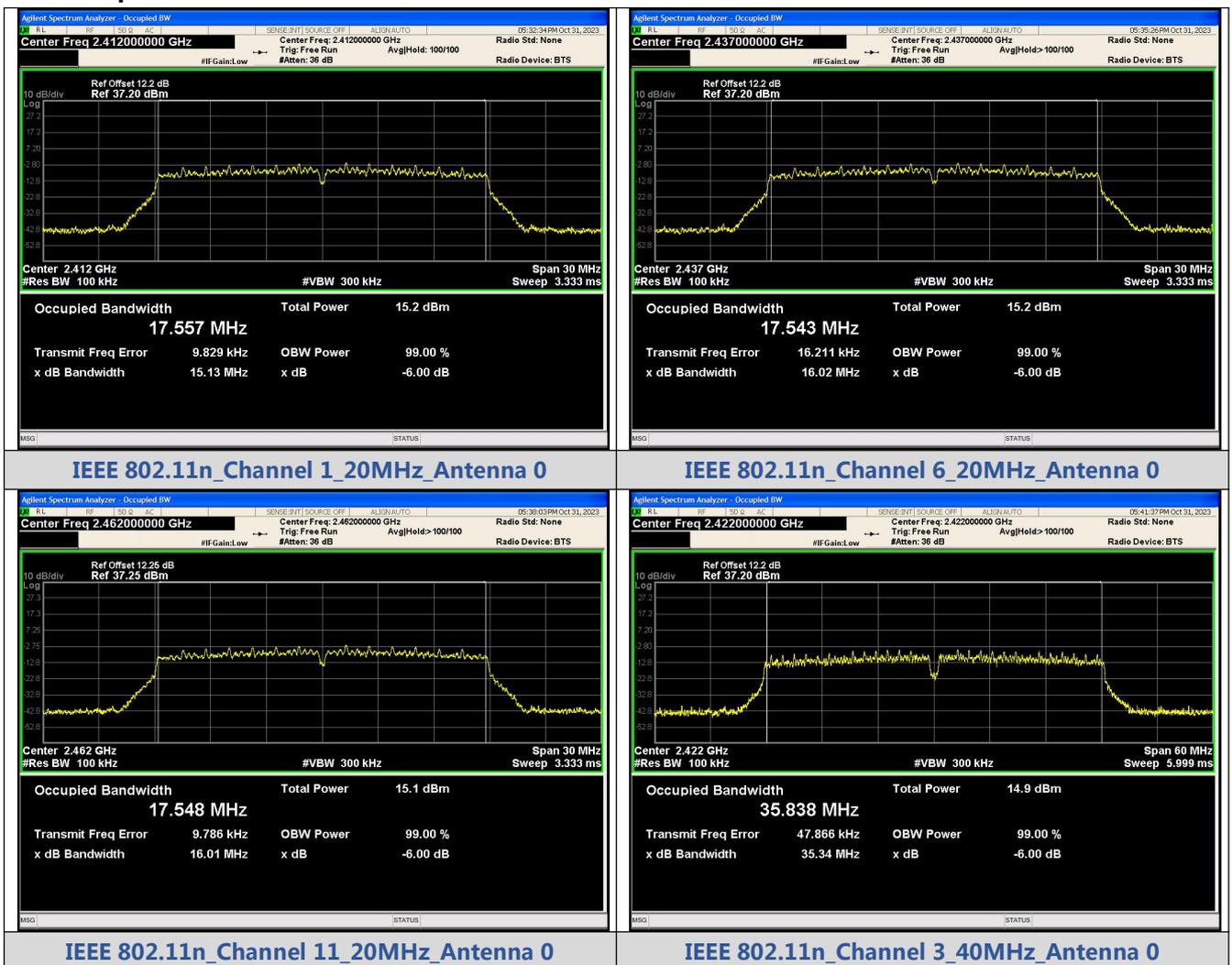
IEEE 802.11n\_Channel 9\_40MHz\_Antenna 0

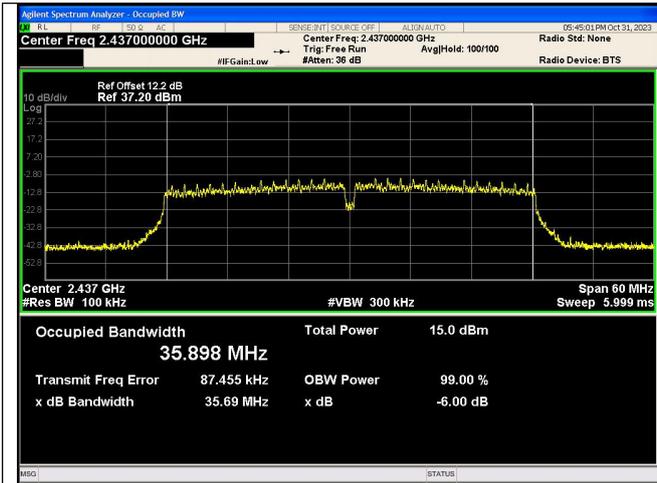
Antenna 1+2:

Test Result

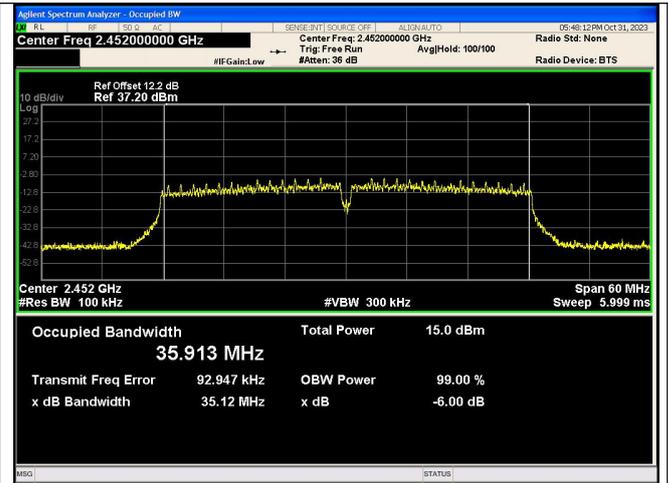
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11n_20	1	1+2	2412	15.13	0.5	PASS
	6		2437	16.02		PASS
	11		2462	16.01		PASS
IEEE 802.11n_40	3		2422	35.34		PASS
	6		2437	35.69		PASS
	9		2452	35.12		PASS

Test Graphs





IEEE 802.11n\_Channel 6\_40MHz\_Antenna 0



IEEE 802.11n\_Channel 9\_40MHz\_Antenna 0

## APPENDIX IV. Conducted Out Of Band Emission

Antenna 1:  
Test Result

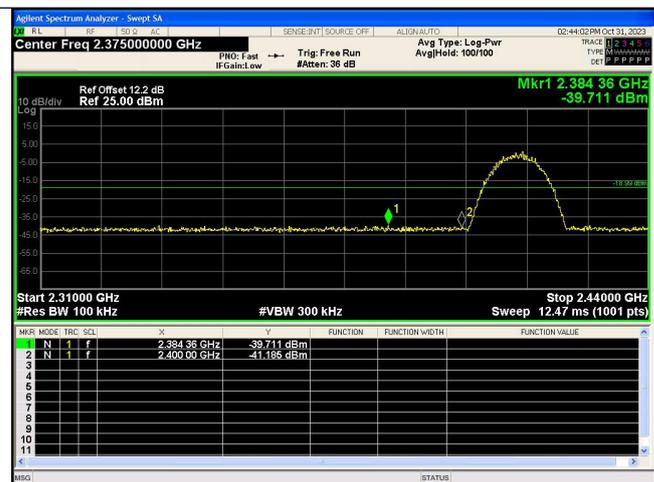
Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	1	2400.00	-41.185	-18.99	-22.195	PASS
			2384.36	-39.711	-18.99	-20.721	PASS
			4841.20	-51.942	-18.99	-32.952	PASS
			7217.80	-50.167	-18.99	-31.177	PASS
			9645.60	-52.045	-18.99	-33.055	PASS
			24937.6	-36.141	-18.99	-17.151	PASS
	6		4864.94	-51.786	-18.82	-32.966	PASS
			7315.80	-50.671	-18.82	-31.851	PASS
			9756.68	-50.430	-18.82	-31.610	PASS
			24996.9	-35.467	-18.82	-16.647	PASS
	11		2483.50	-40.799	-19.21	-21.589	PASS
			4924.87	-51.248	-19.21	-32.038	PASS
			7378.23	-51.481	-19.21	-32.271	PASS
			9847.83	-51.960	-19.21	-32.750	PASS
IEEE 802.11g	1	2400.00	-41.500	-22.49	-19.010	PASS	
		2346.01	-40.105	-22.49	-17.615	PASS	
		4828.10	-52.189	-22.49	-29.699	PASS	
		7255.90	-50.543	-22.49	-28.053	PASS	
		9640.60	-50.612	-22.49	-28.122	PASS	
		24972.5	-35.948	-22.49	-13.458	PASS	
	6	4881.17	-52.207	-22.47	-29.737	PASS	
		7308.94	-50.750	-22.47	-28.280	PASS	
		9749.19	-51.173	-22.47	-28.703	PASS	
		24919.5	-35.019	-22.47	-12.549	PASS	
	11	2483.50	-41.565	-22.88	-18.685	PASS	
		4904.89	-51.839	-22.88	-28.959	PASS	
		7386.97	-51.688	-22.88	-28.808	PASS	
		9832.84	-50.106	-22.88	-27.226	PASS	
IEEE 802.11n_20	1	2400.00	-40.981	-22.49	-18.491	PASS	
		2357.06	-39.851	-22.49	-17.361	PASS	
		4821.90	-52.525	-22.49	-30.035	PASS	
		7216.50	-51.496	-22.49	-29.006	PASS	
		9643.10	-51.623	-22.49	-29.134	PASS	
		24951.3	-35.352	-22.49	-12.862	PASS	

IEEE 802.11n_40	6	4889.91	-52.579	-22.41	-30.169	PASS	
		7302.07	-50.582	-22.41	-28.172	PASS	
		9755.43	-51.536	-22.41	-29.126	PASS	
		24904.5	-34.788	-22.41	-12.378	PASS	
		11	2483.50	-41.486	-22.73	-18.756	PASS
			4909.26	-52.476	-22.73	-29.746	PASS
	7381.98		-51.058	-22.73	-28.328	PASS	
	9829.72		-51.922	-22.73	-29.192	PASS	
	24910.7		-35.588	-22.73	-12.858	PASS	
	3		2400.00	-41.351	-25.44	-15.911	PASS
		2394.76	-39.426	-25.44	-13.986	PASS	
		4829.40	-51.967	-25.44	-26.527	PASS	
		7237.80	-50.843	-25.44	-25.403	PASS	
		9672.40	-51.492	-25.44	-26.052	PASS	
		24909.5	-34.889	-25.44	-9.449	PASS	
		6	4834.35	-51.558	-25.52	-26.038	PASS
			7316.43	-50.074	-25.52	-24.554	PASS
			9771.04	-50.470	-25.52	-24.950	PASS
24945.1			-34.982	-25.52	-9.462	PASS	
9			2483.50	-41.991	-25.59	-16.401	PASS
			4936.10	-52.076	-25.59	-26.486	PASS
	7351.39	-48.970	-25.59	-23.380	PASS		
	9792.27	-51.222	-25.59	-25.632	PASS		
	24879.5	-35.935	-25.59	-10.345	PASS		

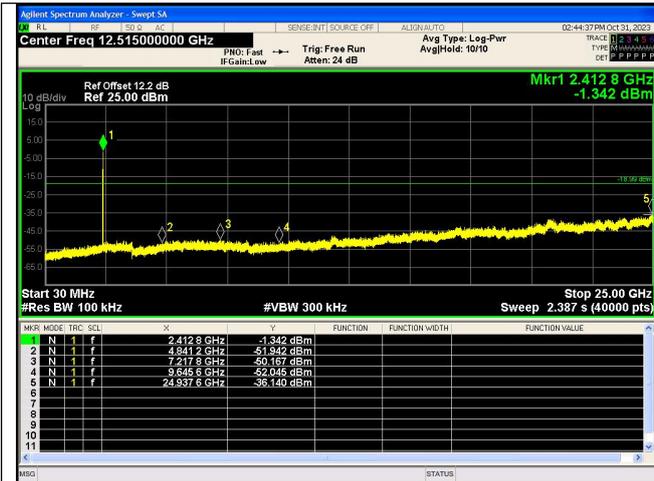
Test Graphs



**In-Band Reference Level**  
 IEEE 802.11b\_Channel 1\_20MHz\_Antenna 0



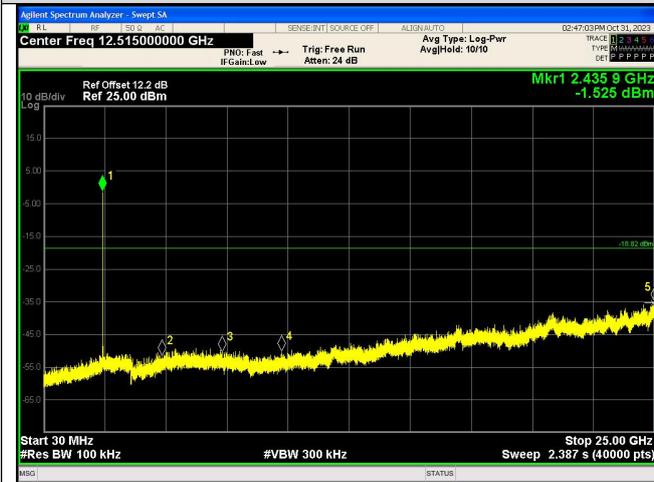
**Out Of Band Emission**  
 IEEE 802.11b\_Channel 1\_20MHz\_Antenna 0



**Spurious Emission**  
IEEE 802.11b\_Channel 1\_20MHz\_Antenna 0



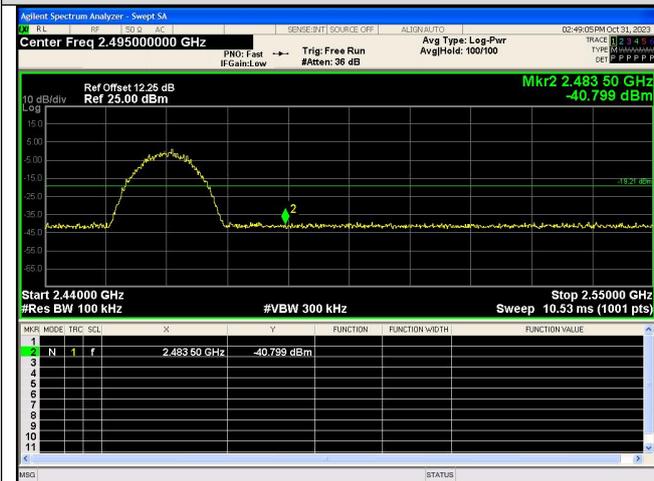
**In-Band Reference Level**  
IEEE 802.11b\_Channel 6\_20MHz\_Antenna 0



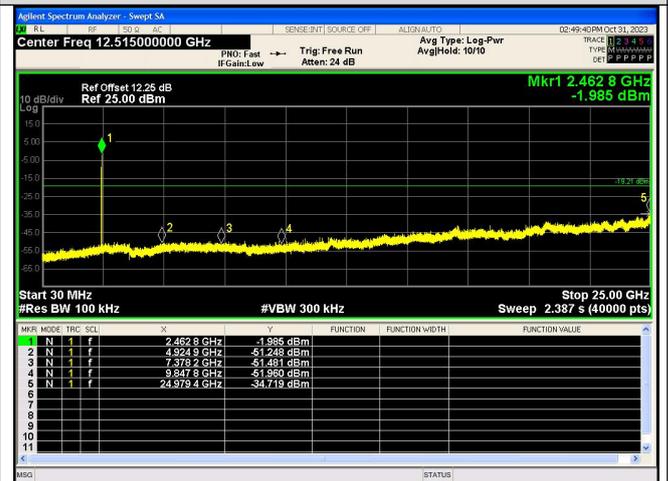
**Spurious Emissions**  
IEEE 802.11b\_Channel 6\_20MHz\_Antenna 0



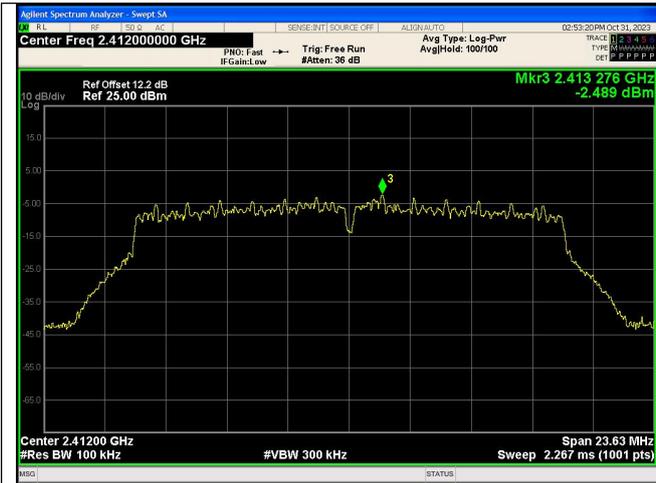
**In-Band Reference Level**  
IEEE 802.11b\_Channel 11\_20MHz\_Antenna 0



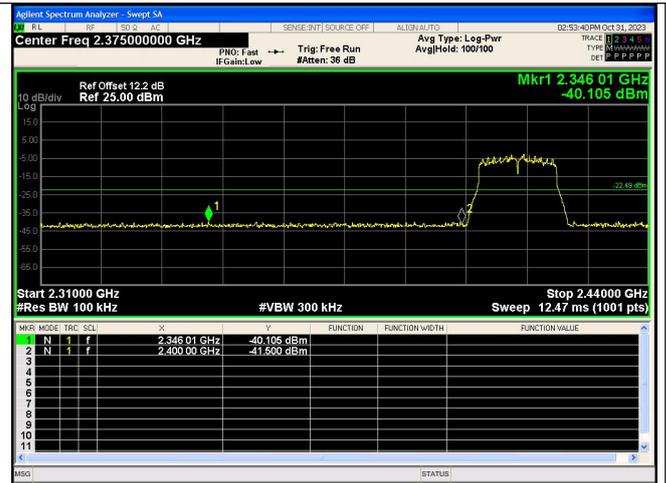
**Out Of Band Emission**  
IEEE 802.11b\_Channel 11\_20MHz\_Antenna 0



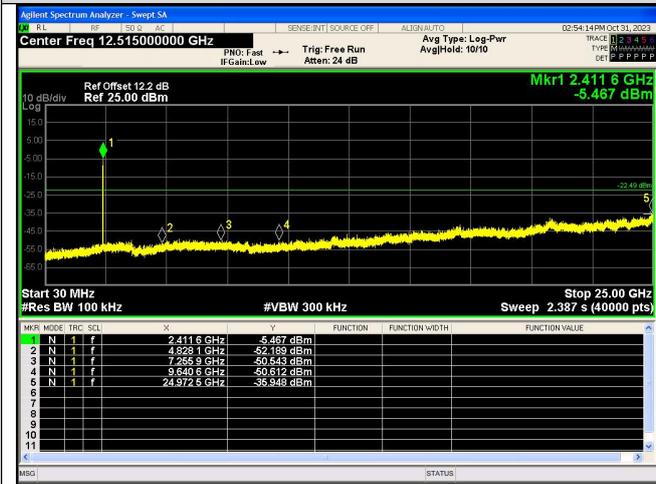
**Spurious Emission**  
IEEE 802.11b\_Channel 11\_20MHz\_Antenna 0



**In-Band Reference Level**  
 IEEE 802.11g\_Channel 1\_20MHz\_Antenna 0



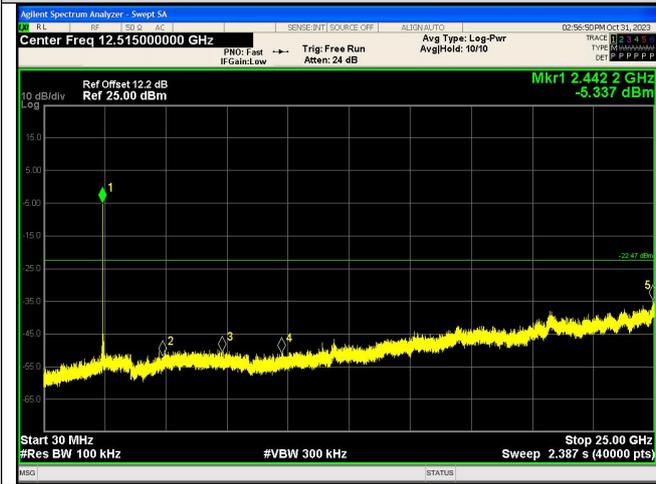
**Out Of Band Emission**  
 IEEE 802.11g\_Channel 1\_20MHz\_Antenna 0



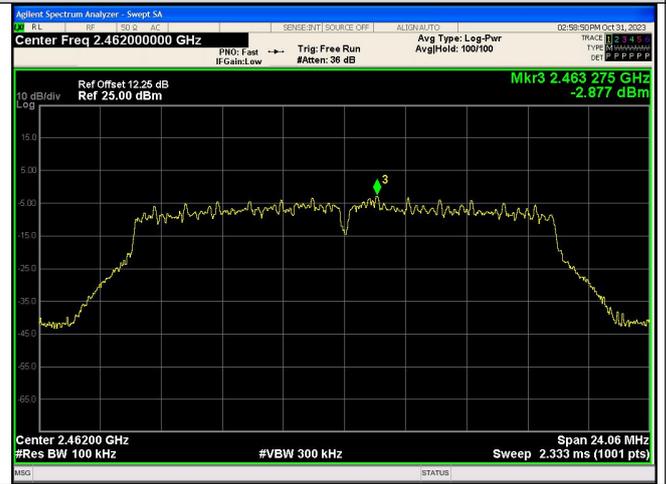
**Spurious Emission**  
 IEEE 802.11g\_Channel 1\_20MHz\_Antenna 0



**In-Band Reference Level**  
 IEEE 802.11g\_Channel 6\_20MHz\_Antenna 0



**Spurious Emissions**  
 IEEE 802.11g\_Channel 6\_20MHz\_Antenna 0



**In-Band Reference Level**  
 IEEE 802.11g\_Channel 11\_20MHz\_Antenna 0