

Conducted Output Power

Test Result

Conducted Output Power

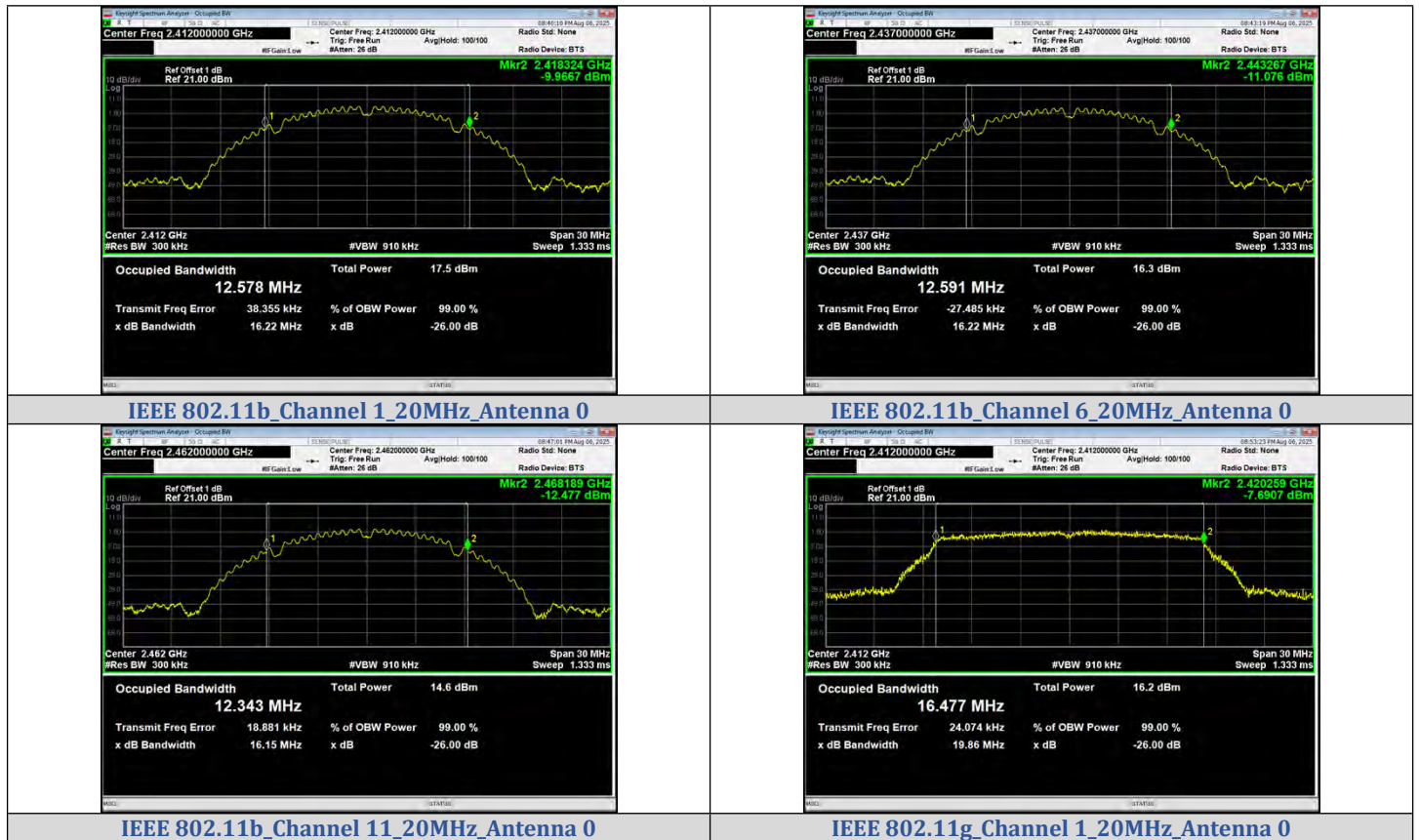
Mode	Channel	RU & Index	Ant. 0 (dBm)	Total (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	N/A	13.80	N/A	≤30	PASS
	6		15.15	N/A	≤30	PASS
	11		13.51	N/A	≤30	PASS
IEEE 802.11g	1		14.83	N/A	≤30	PASS
	6		13.80	N/A	≤30	PASS
	11		14.36	N/A	≤30	PASS
IEEE 802.11n_20	1		14.69	N/A	≤30	PASS
	6		13.56	N/A	≤30	PASS
	11		14.29	N/A	≤30	PASS
IEEE 802.11n_40	3		14.11	N/A	≤30	PASS
	6		13.88	N/A	≤30	PASS
	9		14.29	N/A	≤30	PASS
IEEE 802.11ax_20	1	SU	15.27	N/A	≤30	PASS
	6		13.64	N/A	≤30	PASS
	11		13.26	N/A	≤30	PASS
IEEE 802.11ax_40	3		12.65	N/A	≤30	PASS
	6		11.66	N/A	≤30	PASS
	9		12.66	N/A	≤30	PASS

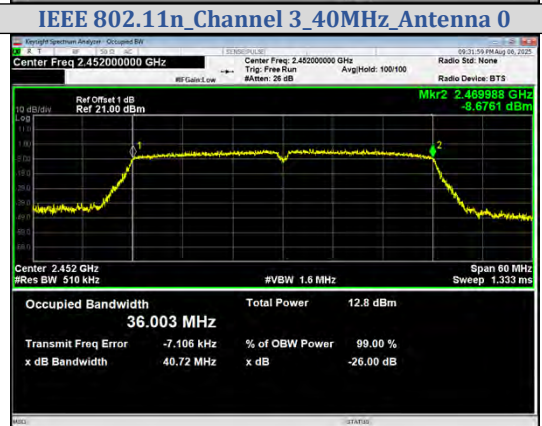
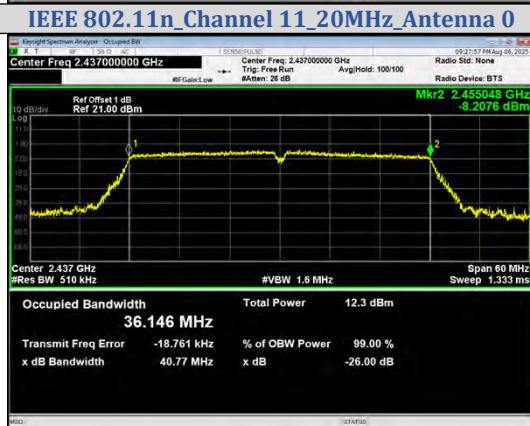
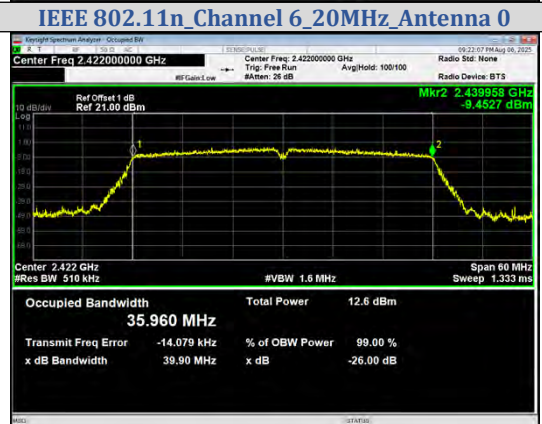
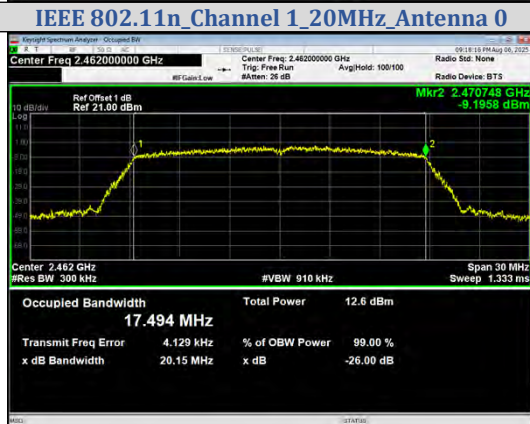
99% Bandwidth

Test Result

Mode	Channel	RU & Index	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11b	1	N/A	0	2412	12.578
	6			2437	12.591
	11			2462	12.343
IEEE 802.11g	1			2412	16.477
	6			2437	16.480
	11			2462	16.372
IEEE 802.11n_20	1			2412	17.540
	6			2437	17.579
	11			2462	17.494
IEEE 802.11n_40	3			2422	35.960
	6			2437	36.146
	9			2452	36.003
IEEE 802.11ax_20	1	SU		2412	18.757
	6			2437	18.814
	11			2462	18.732
IEEE 802.11ax_40	3			2422	18.859
	6			2437	18.827
	9			2452	18.773

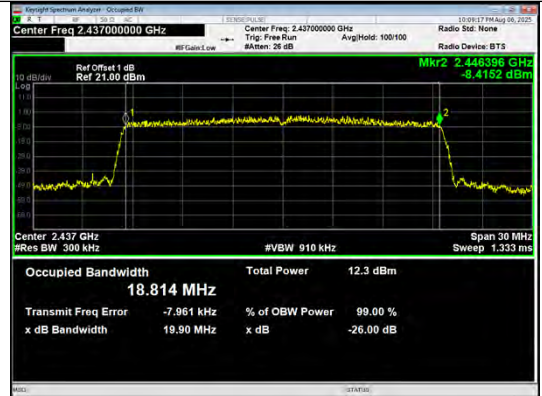
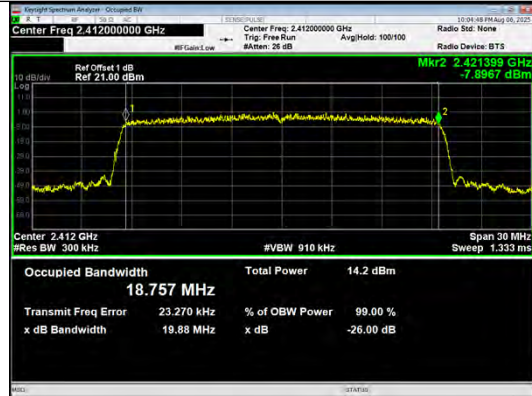
Test Graphs





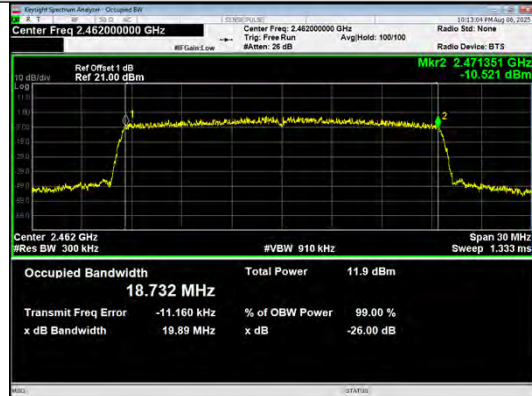
IEEE 802.11n Channel 6_40MHz_Antenna 0

IEEE 802.11n Channel 9_40MHz_Antenna 0



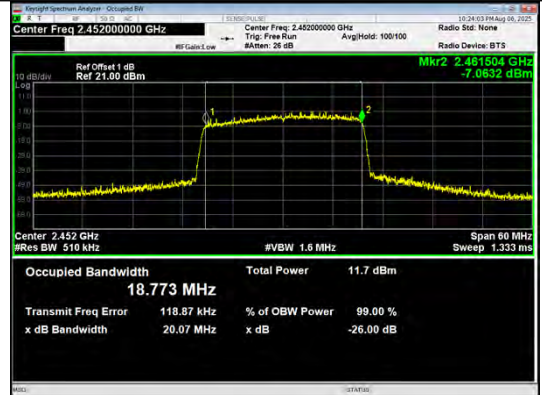
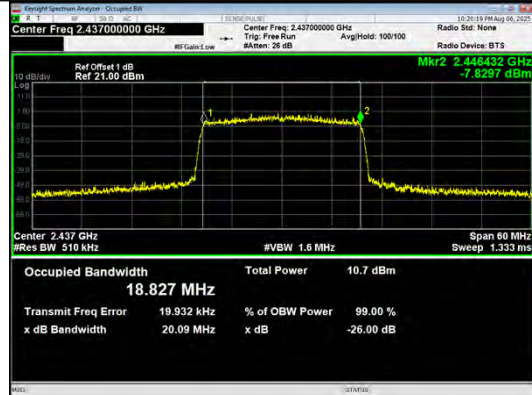
IEEE 802.11ax Channel 1_20MHz_Antenna 0_RU&Index SU

IEEE 802.11ax Channel 6_20MHz_Antenna 0_RU&Index SU



IEEE 802.11ax Channel 11_20MHz_Antenna 0_RU&Index SU

IEEE 802.11ax Channel 3_40MHz_Antenna 0_RU&Index SU



IEEE 802.11ax Channel 6_40MHz_Antenna 0_RU&Index SU

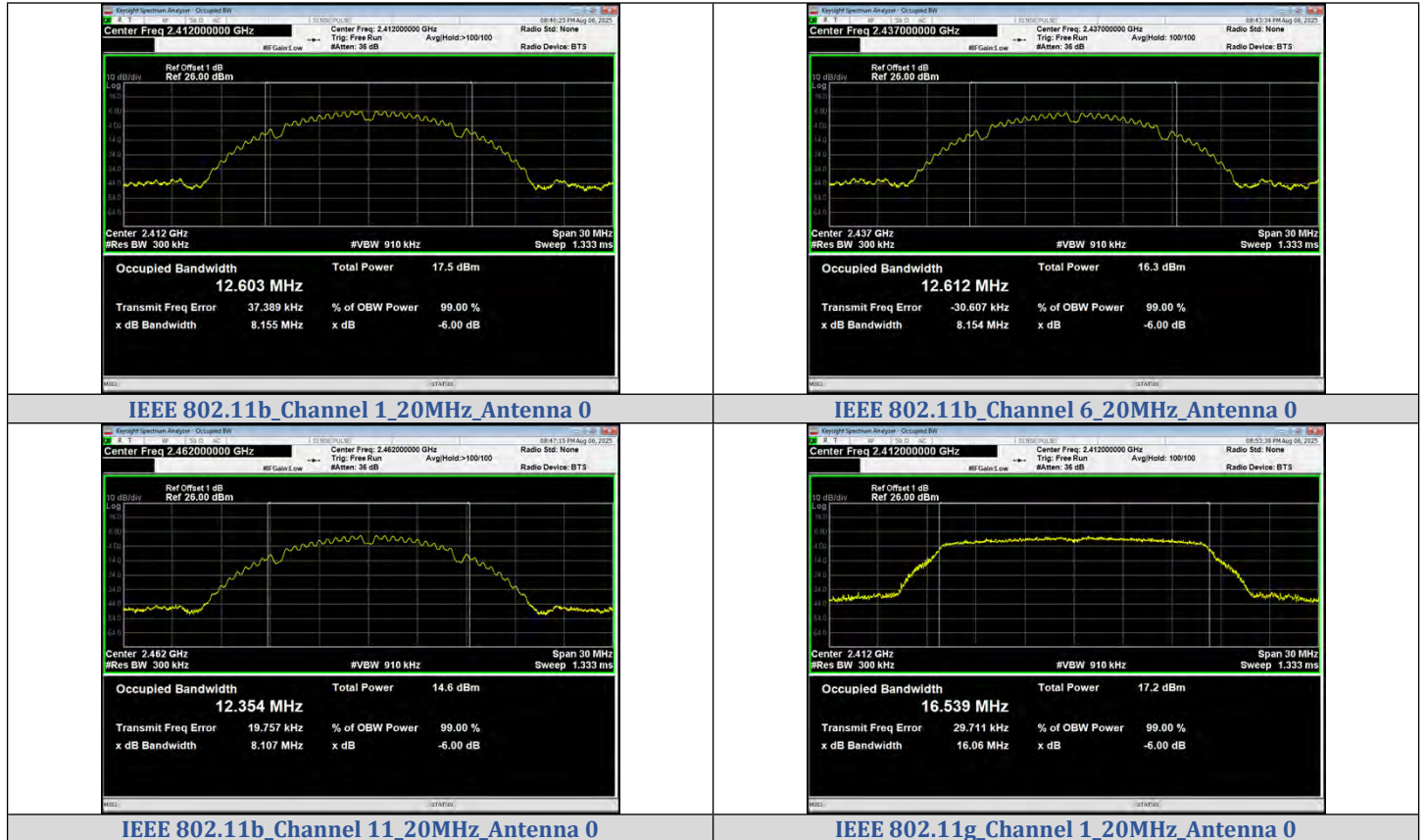
IEEE 802.11ax Channel 9_40MHz_Antenna 0_RU&Index SU

6dB Bandwidth

Test Result

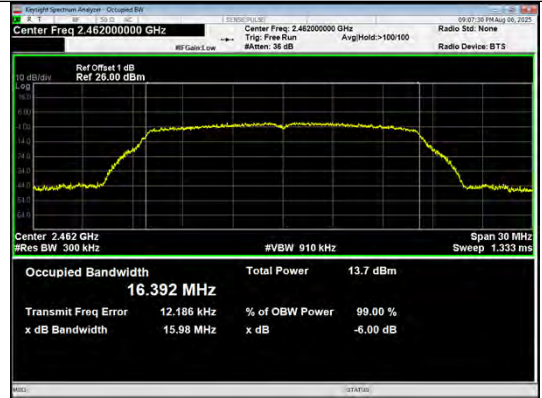
Mode	Channel	RU & Index	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	N/A	0	2412	8.160	≥0.5	PASS
	6			2437	8.150		PASS
	11			2462	8.110		PASS
IEEE 802.11g	1			2412	16.06		PASS
	6			2437	15.95		PASS
	11			2462	15.98		PASS
IEEE 802.11n_20	1			2412	17.21		PASS
	6			2437	16.98		PASS
	11			2462	16.84		PASS
IEEE 802.11n_40	3			2422	35.48		PASS
	6			2437	36.13		PASS
	9			2452	35.74		PASS
IEEE 802.11ax_20	1	SU		2412	18.53		PASS
	6			2437	18.64		PASS
	11			2462	17.76		PASS
IEEE 802.11ax_40	3			2422	18.32		PASS
	6			2437	18.72		PASS
	9			2452	17.46		PASS

Test Graphs

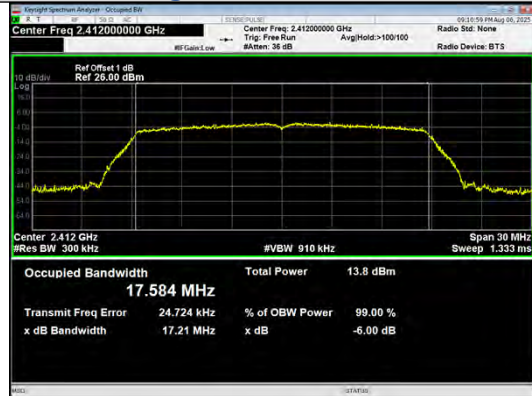




IEEE 802.11g_Channel 6_20MHz_Antenna 0



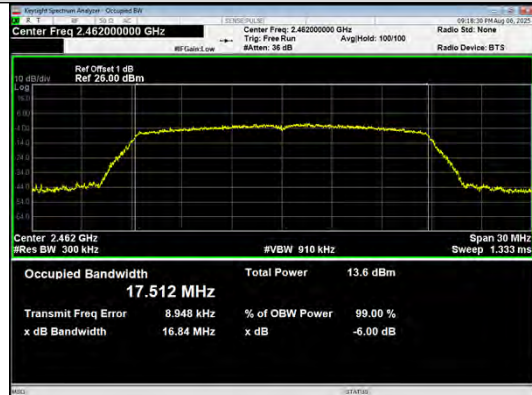
IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0



IEEE 802.11n_Channel 6_20MHz_Antenna 0



IEEE 802.11n_Channel 11_20MHz_Antenna 0



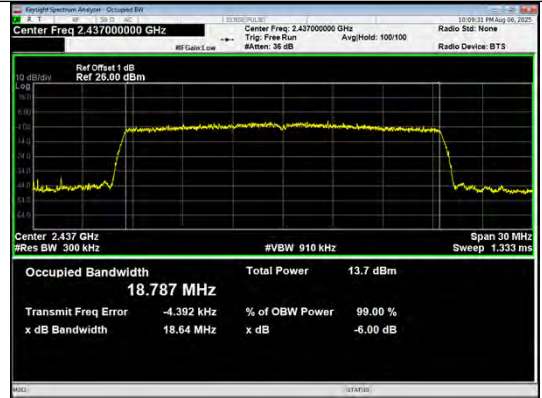
IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0

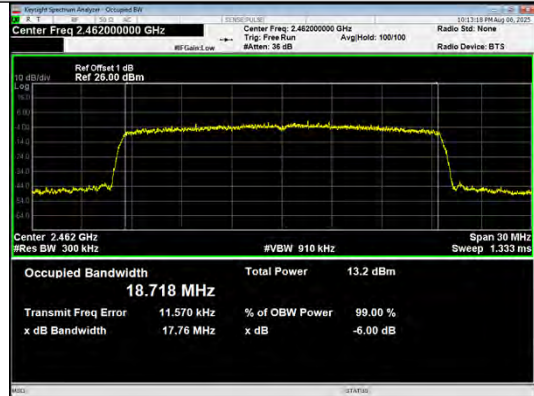


IEEE 802.11n_Channel 9_40MHz_Antenna 0



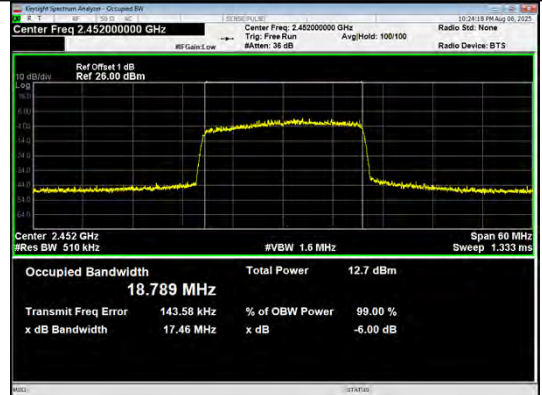
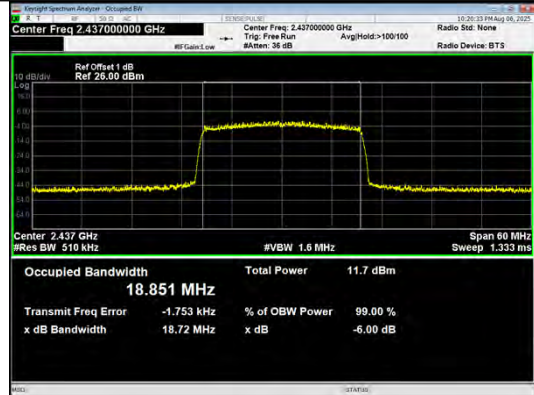
IEEE 802.11ax Channel 1_20MHz_Antenna 0_RU&Index SU

IEEE 802.11ax Channel 6_20MHz_Antenna 0_RU&Index SU



IEEE 802.11ax Channel 11_20MHz_Antenna 0_RU&Index SU

IEEE 802.11ax Channel 3_40MHz_Antenna 0_RU&Index SU



IEEE 802.11ax Channel 6_40MHz_Antenna 0_RU&Index SU

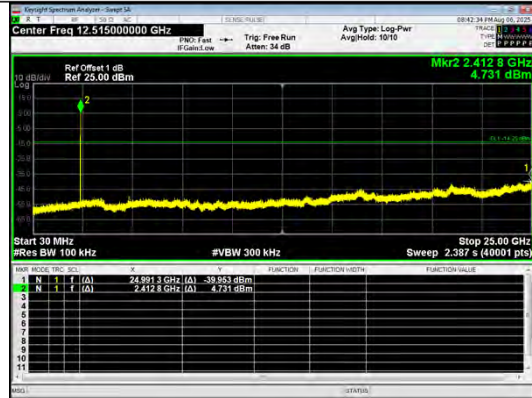
IEEE 802.11ax Channel 9_40MHz_Antenna 0_RU&Index SU

**Conducted Out Of Band Emission****Test Result**

Mode	Channel	RU & Index	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	N/A	0	2400.00	-44.270	-14.25	-30.020	PASS
	6			24991.3	-39.953	-14.25	-25.703	PASS
	11			24929.5	-39.815	-15.39	-24.425	PASS
				2483.50	-53.580	-16.73	-36.850	PASS
				24388.9	-40.426	-16.73	-23.696	PASS
IEEE 802.11g	1			2397.36	-41.003	-22.22	-18.783	PASS
	6			2400.00	-41.020	-22.22	-18.800	PASS
				24892.6	-39.438	-22.22	-17.218	PASS
				24697.9	-39.958	-23.22	-16.738	PASS
				2483.50	-52.940	-25.52	-27.420	PASS
				24423.8	-39.871	-25.52	-14.351	PASS
IEEE 802.11n_20	1			2400.00	-47.560	-25.68	-21.880	PASS
	6			24975.0	-39.756	-25.68	-14.076	PASS
	11			24423.8	-39.434	-26.48	-12.954	PASS
				2483.50	-53.320	-25.92	-27.400	PASS
				24980.6	-39.845	-25.92	-13.925	PASS
IEEE 802.11n_40	3			2398.92	-47.158	-29.0	-18.158	PASS
	6			2400.00	-50.140	-29.0	-21.140	PASS
				24964.4	-38.936	-29.0	-9.936	PASS
				24423.8	-39.903	-29.63	-10.273	PASS
		2483.50	-51.090	-29.12	-21.970	PASS		
		24353.9	-40.015	-29.12	-10.895	PASS		
IEEE 802.11ax_20	1	2397.49	-47.405	-24.28	-23.125	PASS		
	6	2400.00	-48.880	-24.28	-24.600	PASS		
		24898.9	-39.938	-24.28	-15.658	PASS		
		24920.1	-40.477	-26.28	-14.197	PASS		
		2483.50	-54.420	-26.42	-28.000	PASS		
		24510.0	-40.380	-26.42	-13.960	PASS		
IEEE 802.11ax_40	3	2382.28	-51.262	-27.67	-23.592	PASS		
	6	2400.00	-53.470	-27.67	-25.800	PASS		
		24975.7	-40.303	-27.67	-12.633	PASS		
		24302.7	-39.962	-28.41	-11.552	PASS		
		2483.50	-53.790	-26.93	-26.860	PASS		
		24280.9	-40.008	-26.93	-13.078	PASS		

Test Graphs

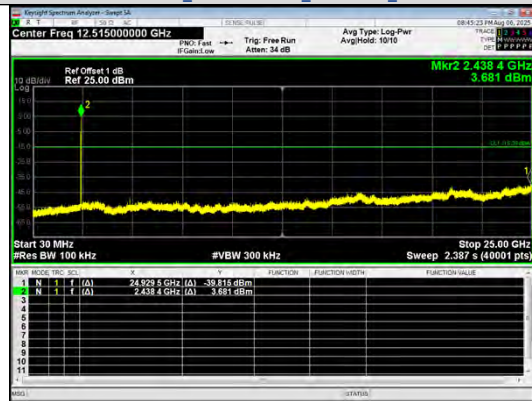
IEEE 802.11b_Channel 1_20MHz_Antenna 0



IEEE 802.11b_Channel 1_20MHz_Antenna 0



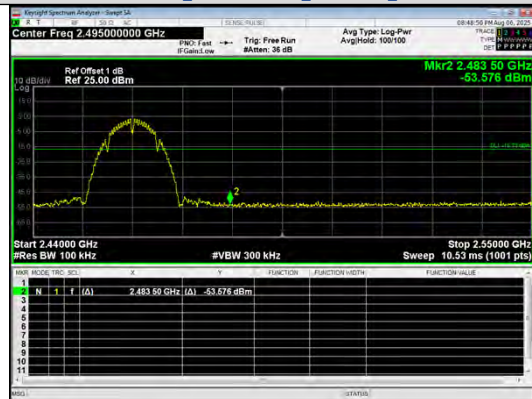
30.0 MHz - 25000.0 MHz IEEE 802.11b_Channel 1_20MHz_Antenna 0



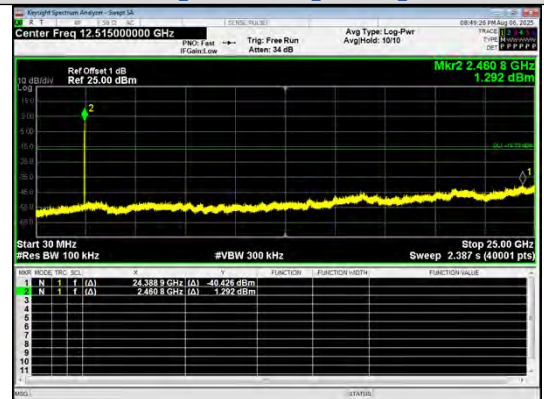
In-Band Reference Level IEEE 802.11b_Channel 6_20MHz_Antenna 0



30.0 MHz - 25000.0 MHz IEEE 802.11b_Channel 6_20MHz_Antenna 0



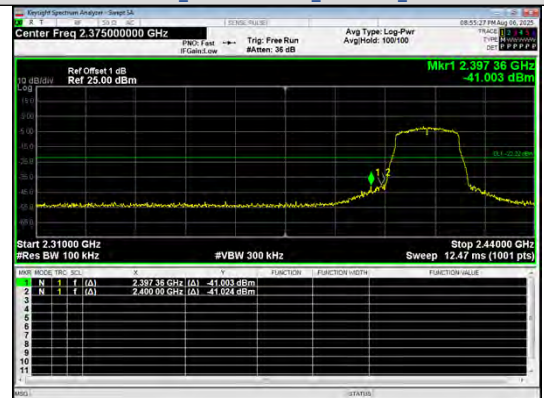
In-Band Reference Level IEEE 802.11b_Channel 11_20MHz_Antenna 0



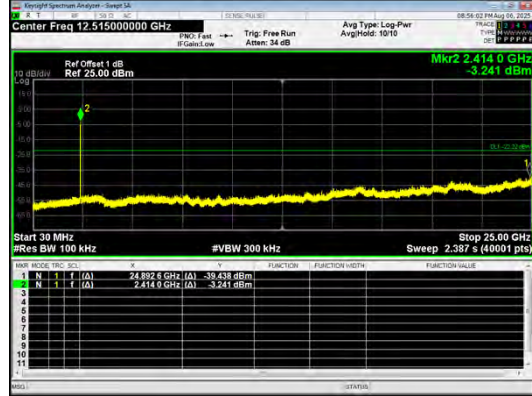
Out Of Band Emission IEEE 802.11b_Channel 11_20MHz_Antenna 0



30.0 MHz - 25000.0 MHz IEEE 802.11b_Channel 11_20MHz_Antenna 0



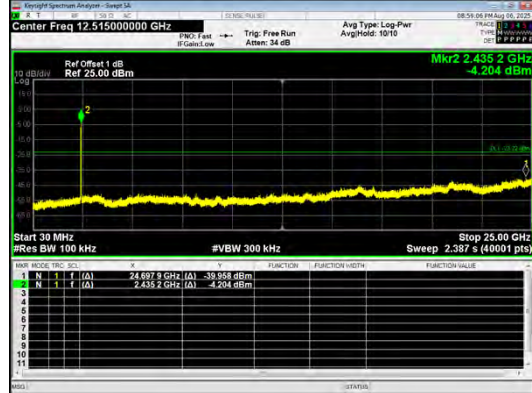
In-Band Reference Level IEEE 802.11g Channel 1_20MHz_Antenna 0



Out Of Band Emission IEEE 802.11g Channel 1_20MHz_Antenna 0



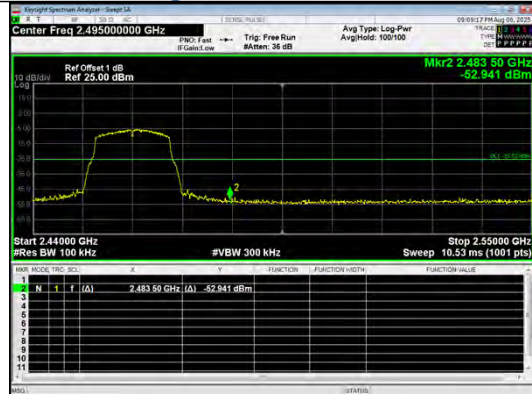
30.0 MHz - 25000.0 MHz IEEE 802.11g Channel 1_20MHz_Antenna 0



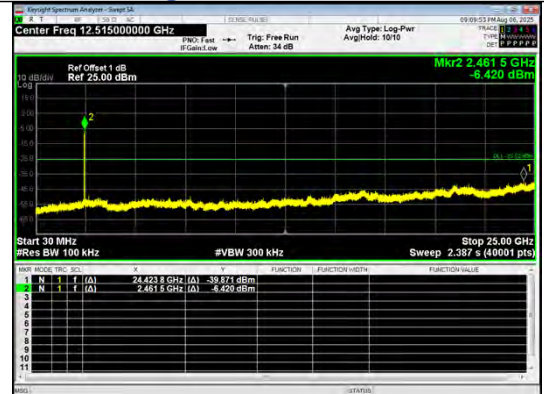
In-Band Reference Level IEEE 802.11g Channel 6_20MHz_Antenna 0



30.0 MHz - 25000.0 MHz IEEE 802.11g Channel 6_20MHz_Antenna 0



In-Band Reference Level IEEE 802.11g Channel 11_20MHz_Antenna 0

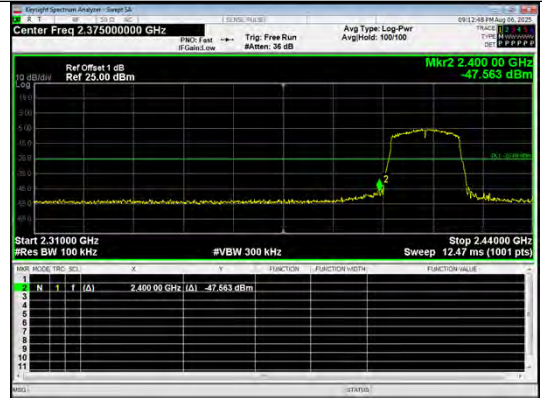


Out Of Band Emission IEEE 802.11g Channel 11_20MHz_Antenna 0

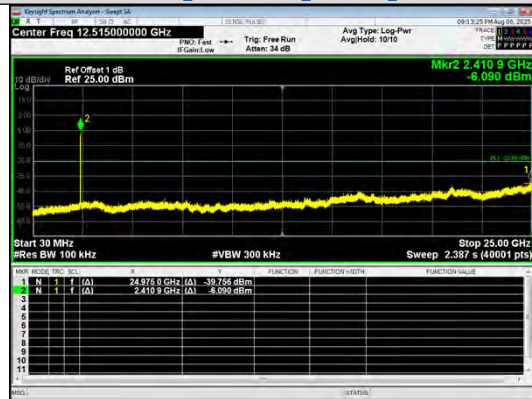
30.0 MHz - 25000.0 MHz IEEE 802.11g Channel 11_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11n Channel 1_20MHz_Antenna 0



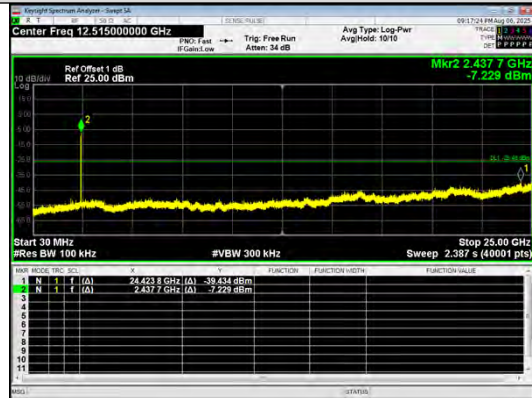
Out Of Band Emission
IEEE 802.11n Channel 1_20MHz_Antenna 0



30.0 MHz - 25000.0 MHz
IEEE 802.11n Channel 1_20MHz_Antenna 0



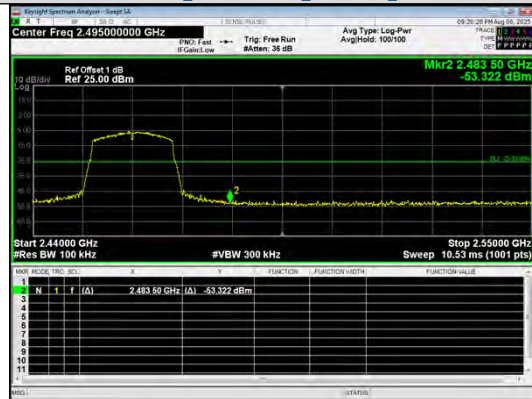
In-Band Reference Level
IEEE 802.11n Channel 6_20MHz_Antenna 0



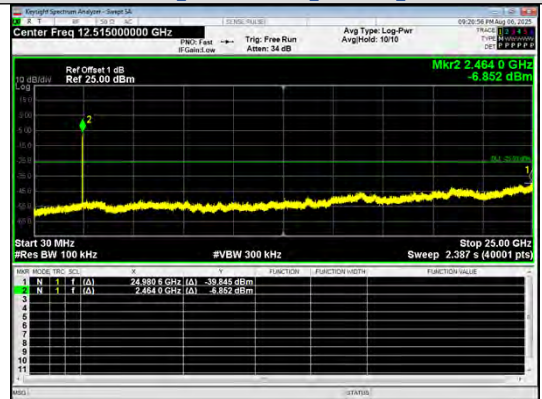
30.0 MHz - 25000.0 MHz
IEEE 802.11n Channel 6_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11n Channel 11_20MHz_Antenna 0



Out Of Band Emission

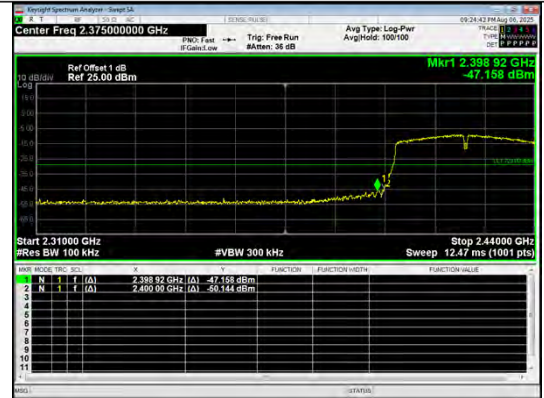


30.0 MHz - 25000.0 MHz

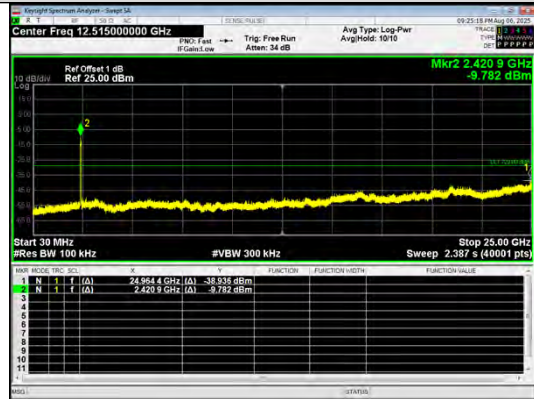
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 11_20MHz_Antenna 0



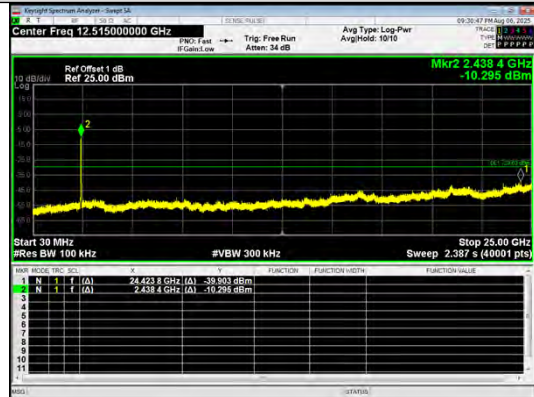
In-Band Reference Level IEEE 802.11n_Channel 3_40MHz_Antenna 0



Out Of Band Emission IEEE 802.11n_Channel 3_40MHz_Antenna 0



30.0 MHz - 25000.0 MHz IEEE 802.11n_Channel 3_40MHz_Antenna 0



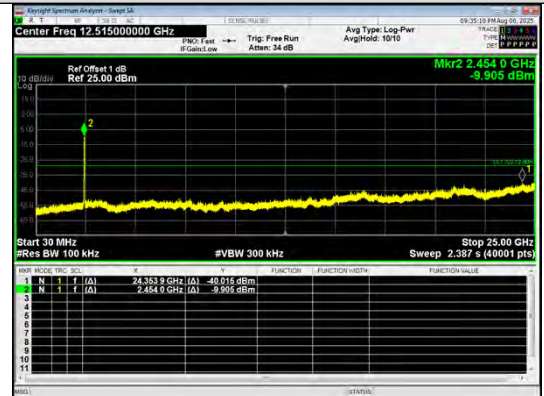
In-Band Reference Level IEEE 802.11n_Channel 6_40MHz_Antenna 0



30.0 MHz - 25000.0 MHz IEEE 802.11n_Channel 6_40MHz_Antenna 0



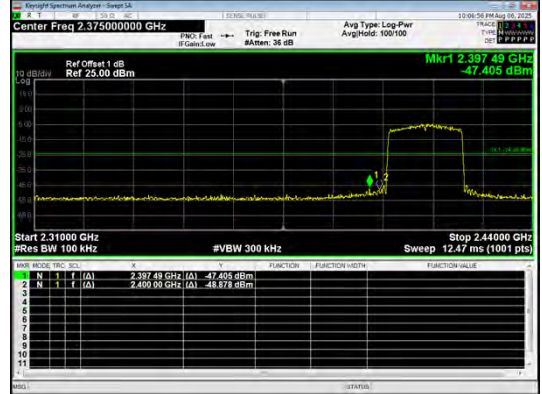
In-Band Reference Level IEEE 802.11n_Channel 9_40MHz_Antenna 0



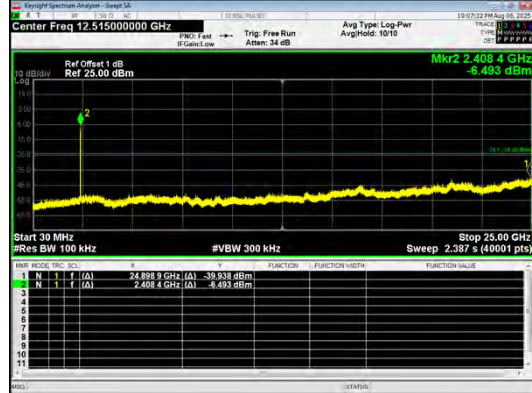
Out Of Band Emission IEEE 802.11n Channel 9_40MHz_Antenna 0



30.0 MHz - 25000.0 MHz IEEE 802.11n Channel 9_40MHz_Antenna 0



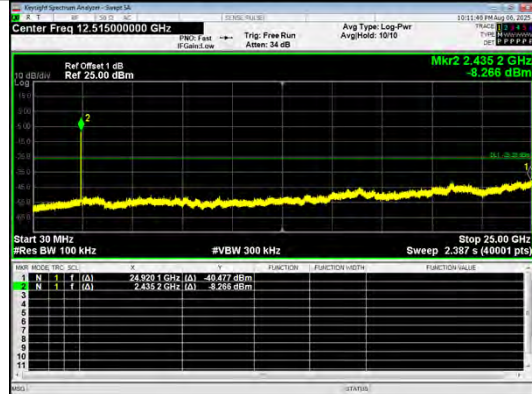
In-Band Reference Level IEEE 802.11ax Channel 1_20MHz_Antenna 0_RU&Index SU



Out Of Band Emission IEEE 802.11ax Channel 1_20MHz_Antenna 0_RU&Index SU



30.0 MHz - 25000.0 MHz IEEE 802.11ax Channel 1_20MHz_Antenna 0_RU&Index SU

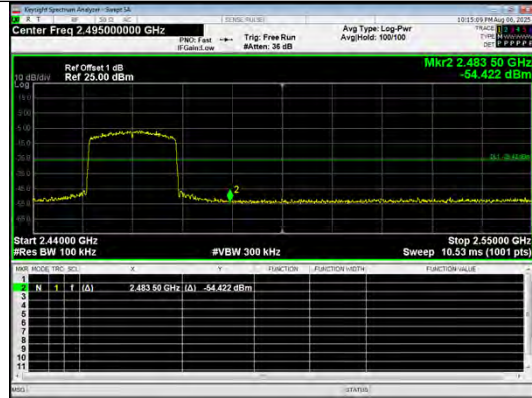


In-Band Reference Level IEEE 802.11ax Channel 6_20MHz_Antenna 0_RU&Index SU



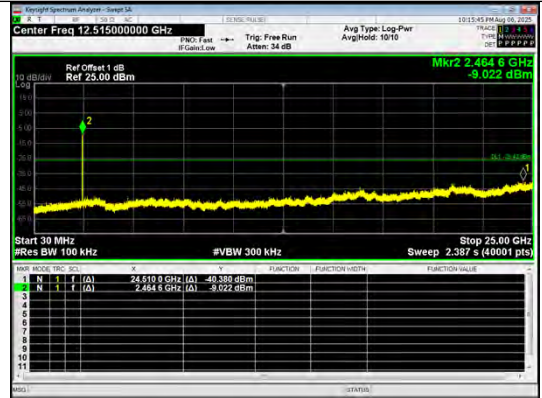
30.0 MHz - 25000.0 MHz IEEE 802.11ax Channel 6_20MHz_Antenna 0_RU&Index SU

In-Band Reference Level IEEE 802.11ax Channel 11_20MHz_Antenna 0_RU&Index SU



Out Of Band Emission

IEEE 802.11ax Channel 11_20MHz_Antenna 0_RU&Index SU



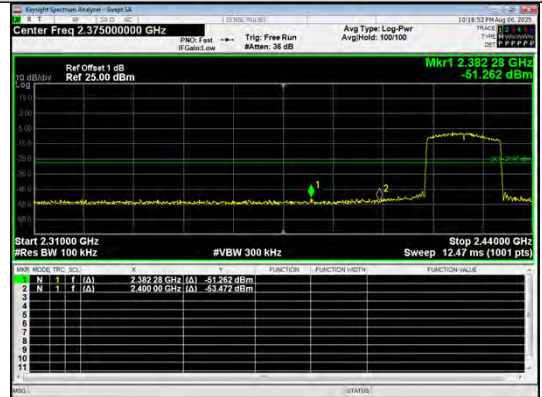
30.0 MHz - 25000.0 MHz

IEEE 802.11ax Channel 11_20MHz_Antenna 0_RU&Index SU



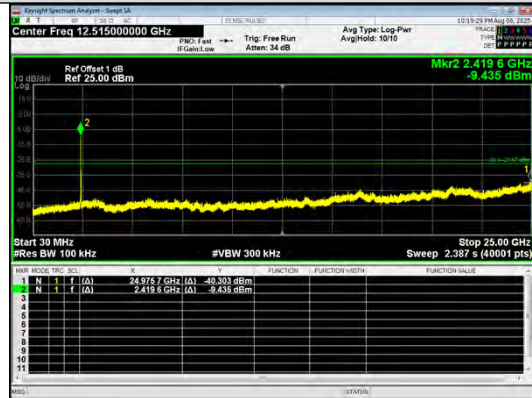
In-Band Reference Level

IEEE 802.11ax Channel 3_40MHz_Antenna 0_RU&Index SU



Out Of Band Emission

IEEE 802.11ax Channel 3_40MHz_Antenna 0_RU&Index SU



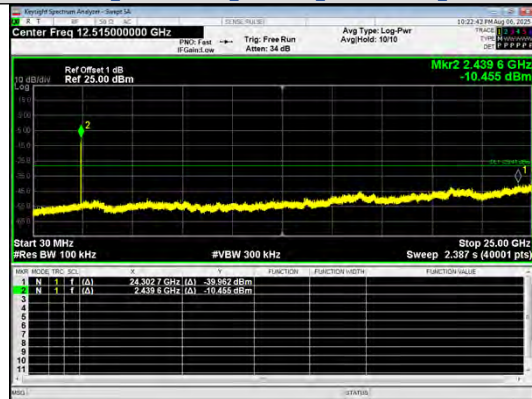
30.0 MHz - 25000.0 MHz

IEEE 802.11ax Channel 3_40MHz_Antenna 0_RU&Index SU



In-Band Reference Level

IEEE 802.11ax Channel 6_40MHz_Antenna 0_RU&Index SU



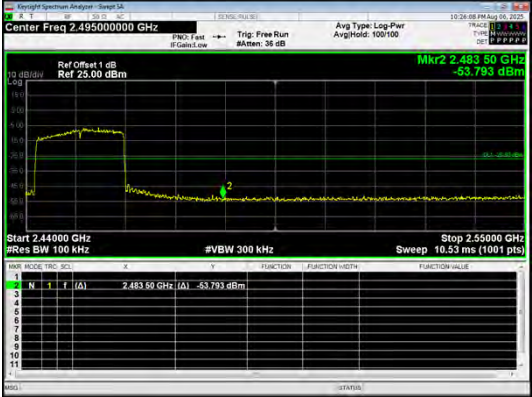
30.0 MHz - 25000.0 MHz



In-Band Reference Level



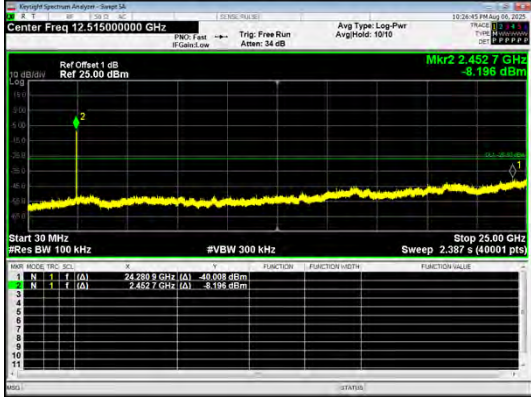
IEEE 802.11ax_Channel 6_40MHz_Antenna 0_RU&Index SU



Out Of Band Emission

IEEE 802.11ax_Channel 9_40MHz_Antenna 0_RU&Index SU

IEEE 802.11ax_Channel 9_40MHz_Antenna 0_RU&Index SU



30.0 MHz - 25000.0 MHz

IEEE 802.11ax_Channel 9_40MHz_Antenna 0_RU&Index SU

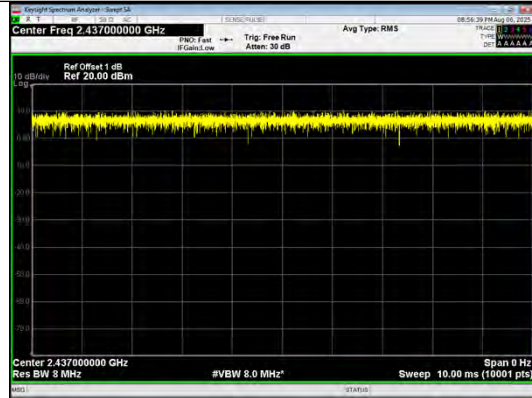
Duty Cycle

Test Result

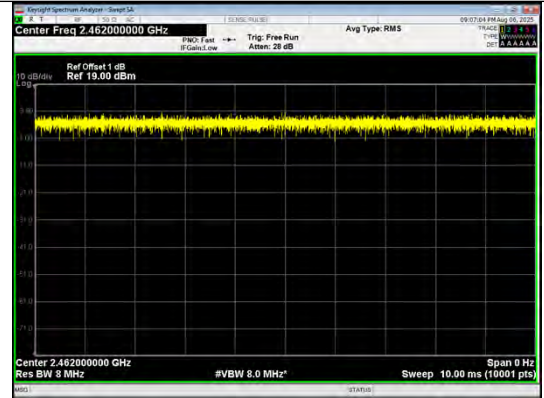
Mode	Data rates	Channel	RU & Index	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T	
IEEE 802.11b	1	1	N/A	1	32.000	32.000	100	1	0.0	0.0312	
		6			32.000	32.000	100	1	0.0	0.0312	
		11			32.000	32.000	100	1	0.0	0.0312	
IEEE 802.11g	6	1			10.000	10.000	100	1	0.0	0.1000	
		6			10.000	10.000	100	1	0.0	0.1000	
		11			10.000	10.000	100	1	0.0	0.1000	
IEEE 802.11n_20	MCS 0	1			10.000	10.000	100	1	0.0	0.1000	
		6			10.000	10.000	100	1	0.0	0.1000	
		11			10.000	10.000	100	1	0.0	0.1000	
IEEE 802.11n_40		3			10.000	10.000	100	1	0.0	0.1000	
					6	10.000	10.000	100	1	0.0	0.1000
					9	10.000	10.000	100	1	0.0	0.1000
IEEE 802.11ax_20			SU		1	10.000	10.000	100	1	0.0	0.1000
					6	10.000	10.000	100	1	0.0	0.1000
					11	10.000	10.000	100	1	0.0	0.1000
IEEE 802.11ax_40		3			10.000	10.000	100	1	0.0	0.1000	
					6	10.000	10.000	100	1	0.0	0.1000
					9	10.000	10.000	100	1	0.0	0.1000

Test Graphs

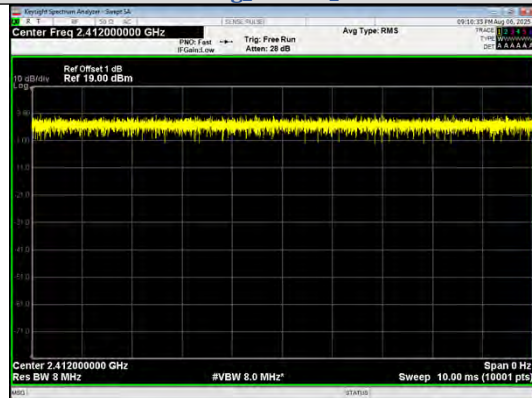




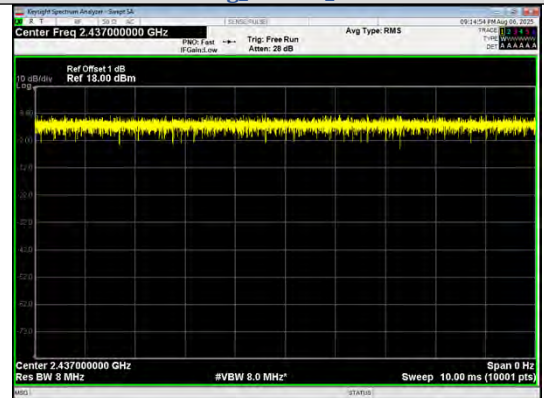
IEEE 802.11g_20MHz_Channel 6



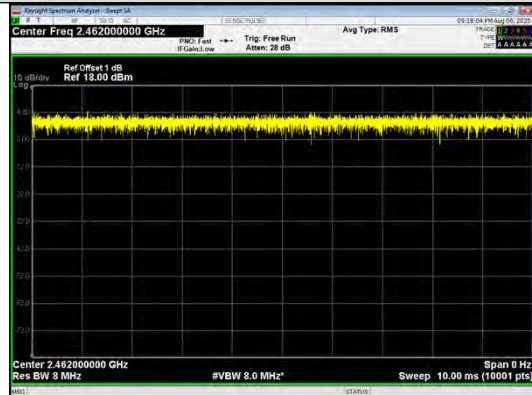
IEEE 802.11g_20MHz_Channel 11



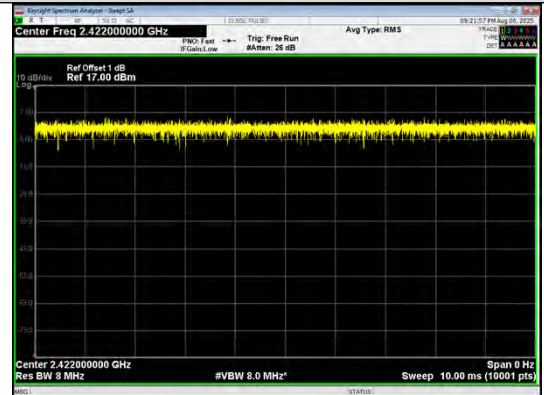
IEEE 802.11n_20MHz_Channel 1



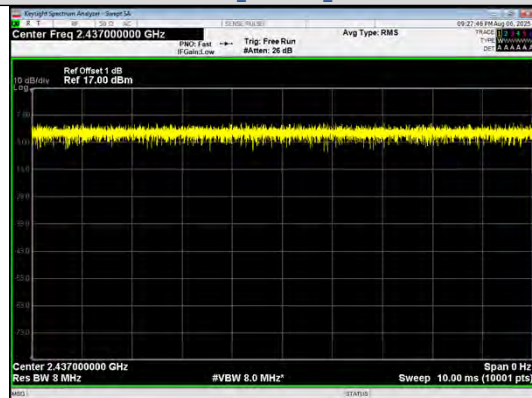
IEEE 802.11n_20MHz_Channel 6



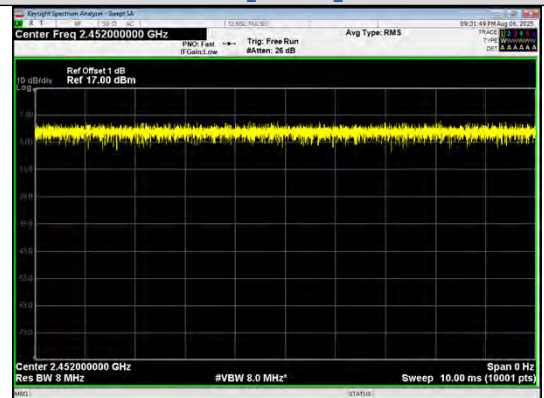
IEEE 802.11n_20MHz_Channel 11



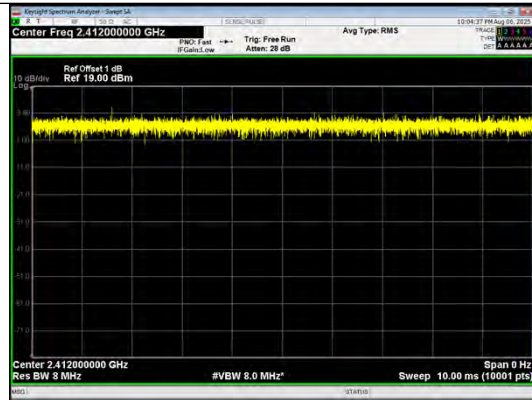
IEEE 802.11n_40MHz_Channel 3



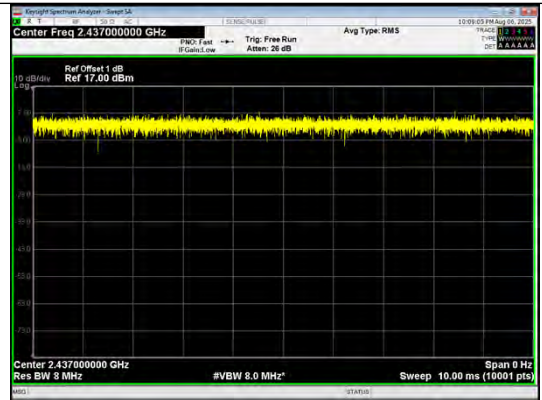
IEEE 802.11n_40MHz_Channel 6



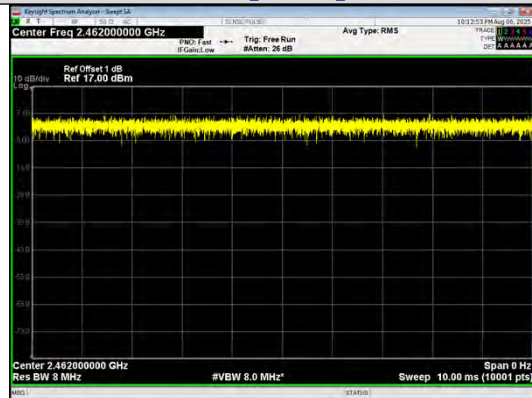
IEEE 802.11n_40MHz_Channel 9



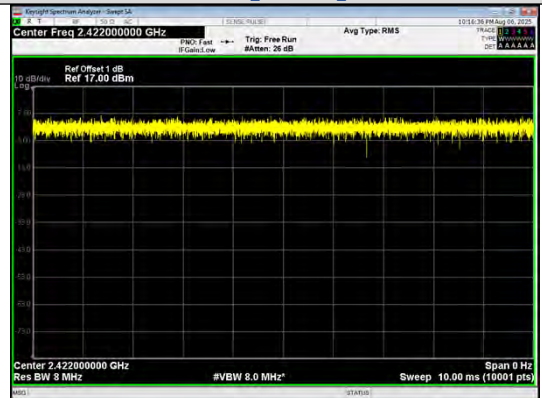
IEEE 802.11ax_20MHz_Channel 1



IEEE 802.11ax_20MHz_Channel 6



IEEE 802.11ax_20MHz_Channel 11



IEEE 802.11ax_40MHz_Channel 3



IEEE 802.11ax_40MHz_Channel 6



IEEE 802.11ax_40MHz_Channel 9

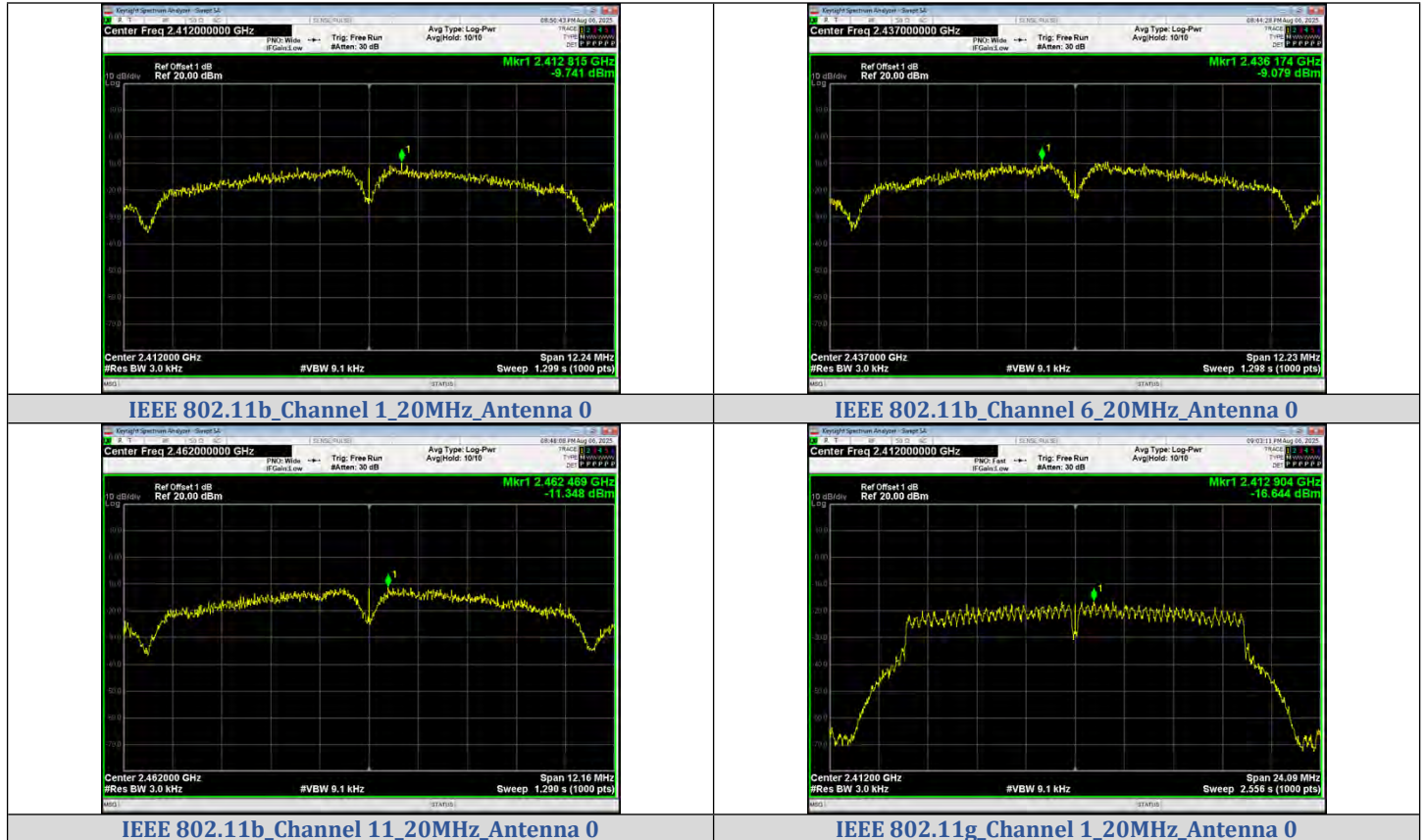


Power Spectral Density

Test Result

Mode	Channel	RU & Index	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	N/A	-9.740	≤8	PASS
	6		-9.080		PASS
	11		-11.350		PASS
IEEE 802.11g	1		-16.640		PASS
	6		-17.000		PASS
	11		-17.210		PASS
IEEE 802.11n_20	1		-15.390		PASS
	6		-17.680		PASS
	11		-16.670		PASS
IEEE 802.11n_40	3		-18.500		PASS
	6		-20.210		PASS
	9		-19.540		PASS
IEEE 802.11ax_20	1	SU	-16.810		PASS
	6		-18.560		PASS
	11		-18.700		PASS
IEEE 802.11ax_40	3		-20.060		PASS
	6		-20.470		PASS
	9		-20.090		PASS

Test Graphs





IEEE 802.11g_Channel 6_20MHz_Antenna 0



IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0



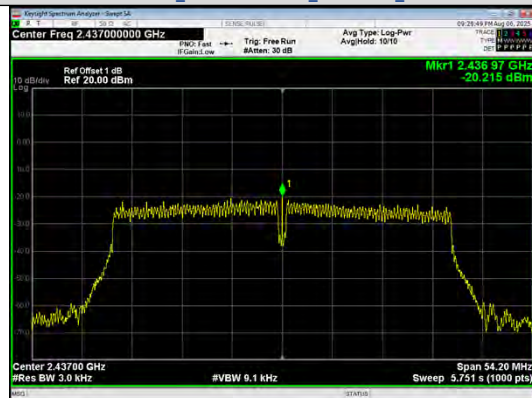
IEEE 802.11n_Channel 6_20MHz_Antenna 0



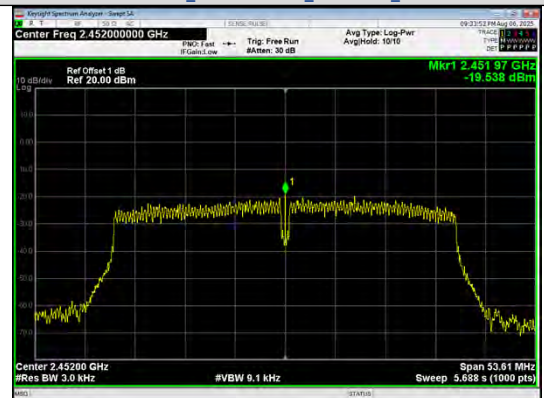
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



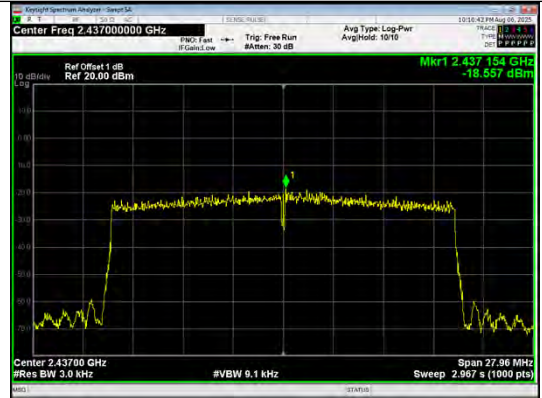
IEEE 802.11n_Channel 6_40MHz_Antenna 0



IEEE 802.11n_Channel 9_40MHz_Antenna 0



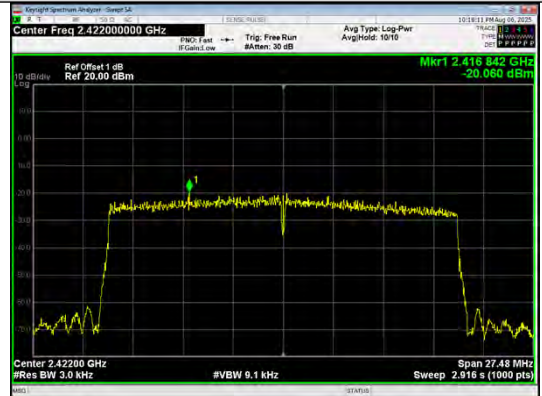
IEEE 802.11ax Channel 1_20MHz_Antenna 0_RU&Index SU



IEEE 802.11ax Channel 6_20MHz_Antenna 0_RU&Index SU



IEEE 802.11ax Channel 11_20MHz_Antenna 0_RU&Index SU



IEEE 802.11ax Channel 3_40MHz_Antenna 0_RU&Index SU



IEEE 802.11ax Channel 6_40MHz_Antenna 0_RU&Index SU



IEEE 802.11ax Channel 9_40MHz_Antenna 0_RU&Index SU

