

Appendix

2.4G WiFi Test Data

Conducted Test Data

Conducted Output Power

Test Result

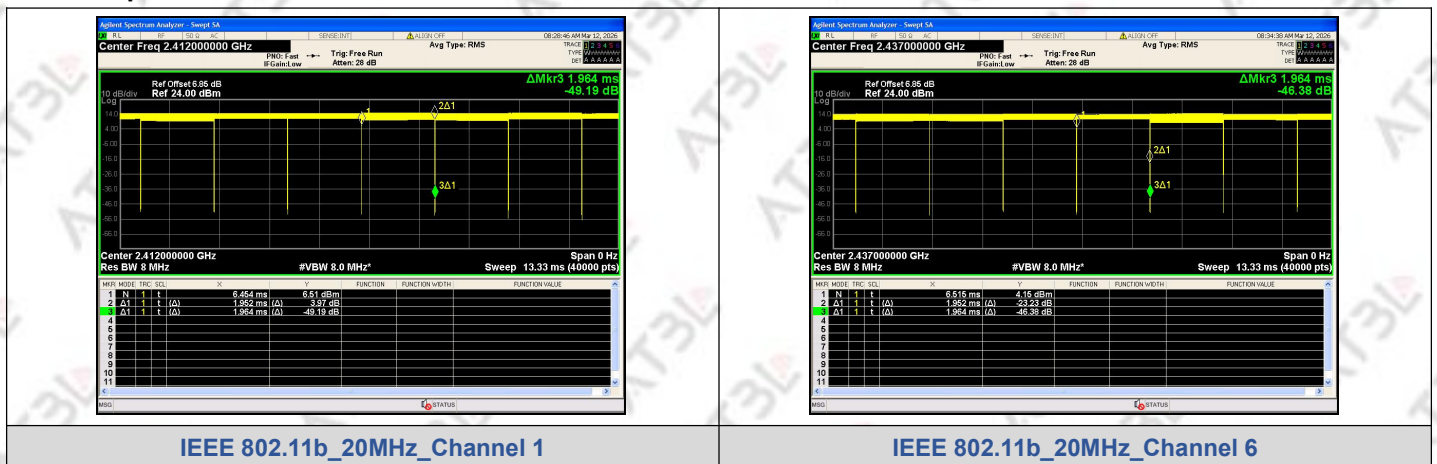
Mode	Channel	RU & Index	Output Power (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	N/A	17.63	≤30	PASS
	6		16.34	≤30	PASS
	11		15.77	≤30	PASS
IEEE 802.11g	1		19.69	≤30	PASS
	6		21.32	≤30	PASS
	11		21.01	≤30	PASS
IEEE 802.11n_20	1		22.30	≤30	PASS
	6		19.11	≤30	PASS
	11		20.70	≤30	PASS
IEEE 802.11n_40	3		18.70	≤30	PASS
	6		20.60	≤30	PASS
	9		15.99	≤30	PASS
IEEE 802.11ax_20	1	SU	21.46	≤30	PASS
	6		21.39	≤30	PASS
	11		20.91	≤30	PASS
IEEE 802.11ax_40	3		19.25	≤30	PASS
	6		21.00	≤30	PASS
	9		20.85	≤30	PASS

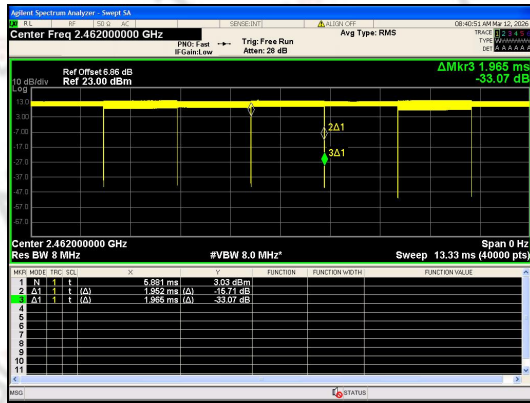
Duty Cycle

Test Result

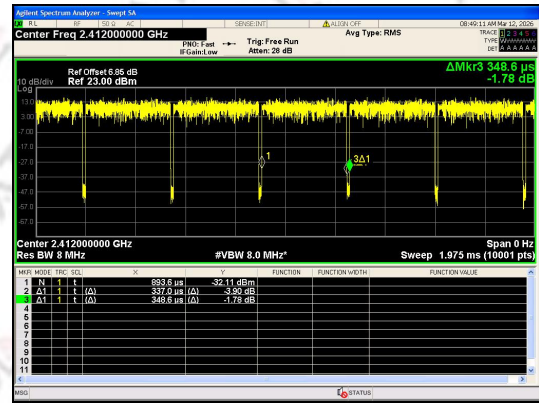
Mode	Data rates	Channel	RU & Index	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T	
IEEE 802.11b	1	1	N/A	1	1.952	1.964	99.37	0.9937	0.0274	0.5123	
		6			1.952	1.964	99.39	0.9939	0.0266	0.5123	
		11			1.952	1.965	99.37	0.9937	0.0274	0.5123	
IEEE 802.11g	6	1			0.337	0.349	96.66	0.9666	0.1475	2.9674	
		6			0.337	0.349	96.66	0.9666	0.1475	2.9674	
		11			0.337	0.349	96.66	0.9666	0.1475	2.9674	
IEEE 802.11n_20	MCS 0	1			0.296	0.308	96.28	0.9628	0.1646	3.3784	
		6			0.296	0.308	96.22	0.9622	0.1673	3.3784	
		11			0.296	0.308	96.22	0.9622	0.1673	3.3784	
IEEE 802.11n_40					3	0.163	0.175	93.22	0.9322	0.3049	6.1350
					6	0.163	0.175	93.17	0.9317	0.3072	6.1350
					9	0.163	0.175	93.16	0.9316	0.3077	6.1350
IEEE 802.11ax_20		SU	1		0.275	0.286	95.93	0.9593	0.1805	3.6364	
			6		0.275	0.286	95.93	0.9593	0.1805	3.6364	
			11		0.275	0.286	96.00	0.9600	0.1773	3.6364	
IEEE 802.11ax_40					3	0.166	0.177	93.32	0.9332	0.3003	6.0241
					6	0.166	0.177	93.39	0.9339	0.297	6.0241
					9	0.165	0.177	93.27	0.9327	0.3026	6.0606

Test Graphs

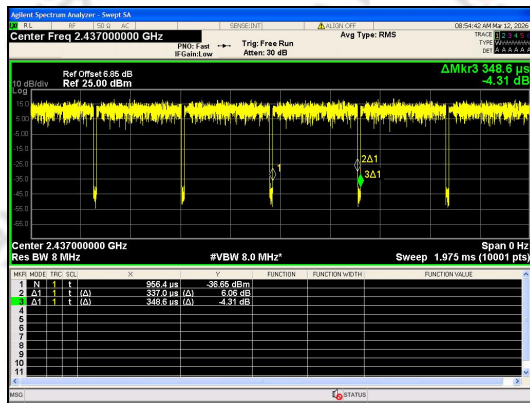




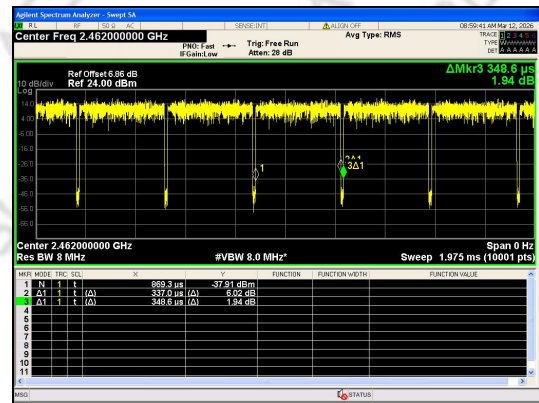
IEEE 802.11b_20MHz_Channel 11



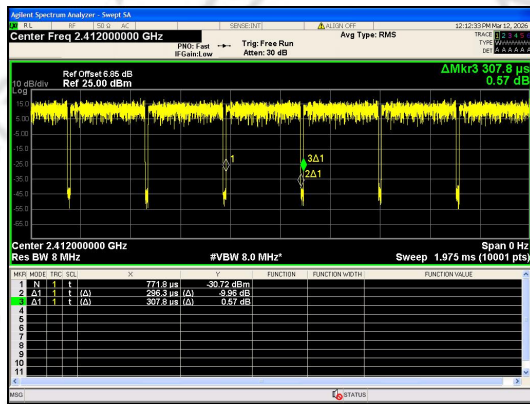
IEEE 802.11g_20MHz_Channel 1



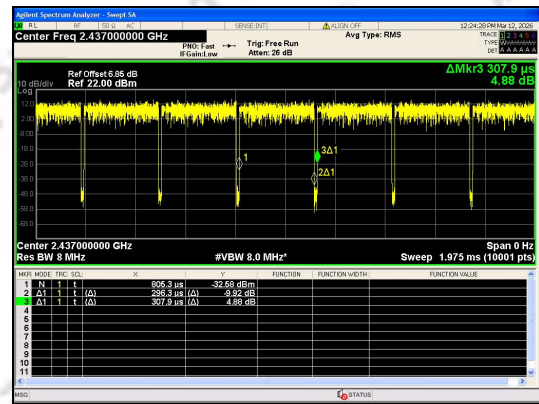
IEEE 802.11g_20MHz_Channel 6



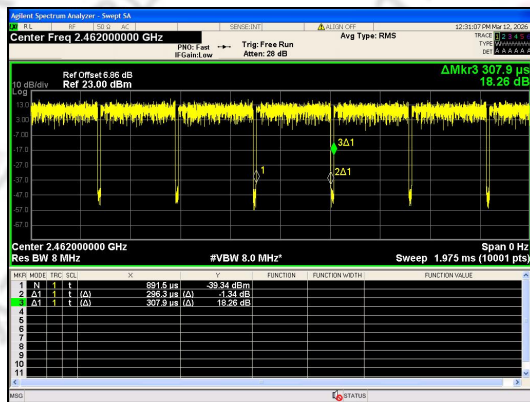
IEEE 802.11g_20MHz_Channel 11



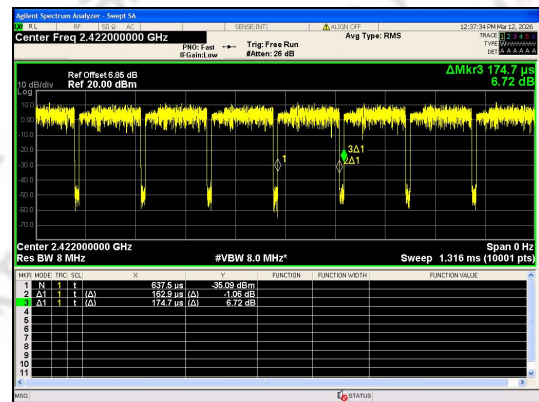
IEEE 802.11n_20MHz_Channel 1



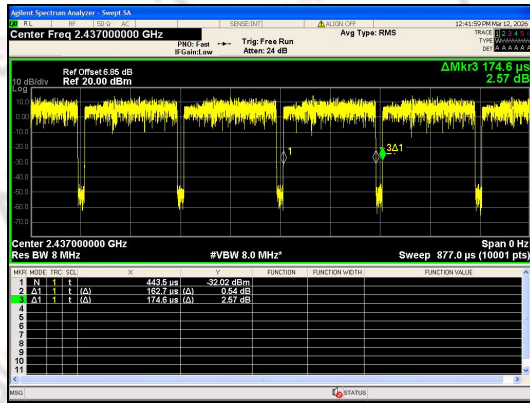
IEEE 802.11n_20MHz_Channel 6



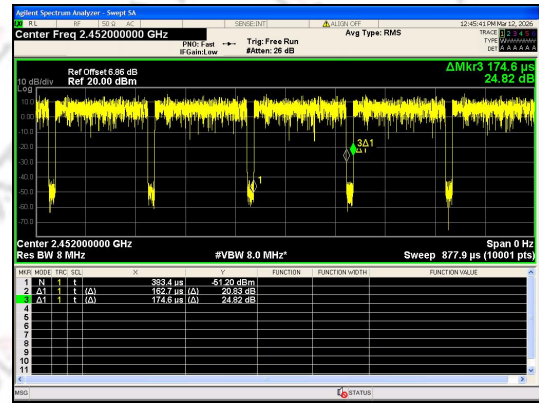
IEEE 802.11n_20MHz_Channel 11



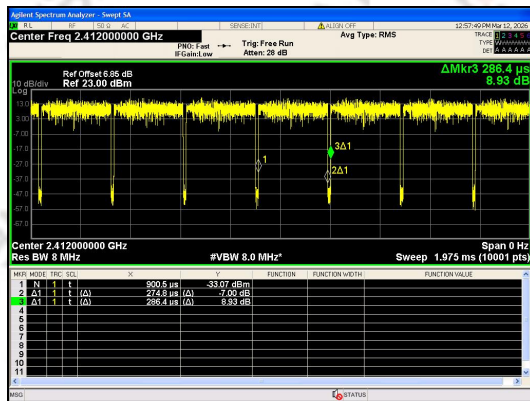
IEEE 802.11n_40MHz_Channel 3



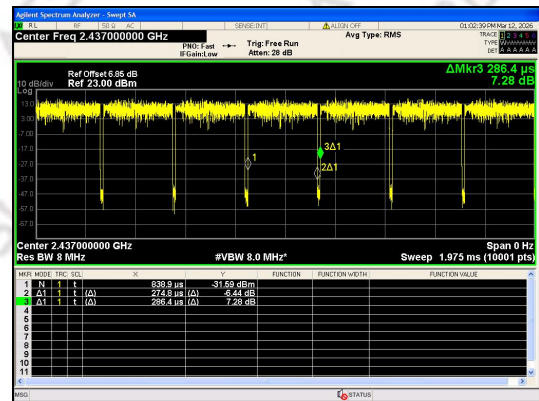
IEEE 802.11n_40MHz_Channel 6



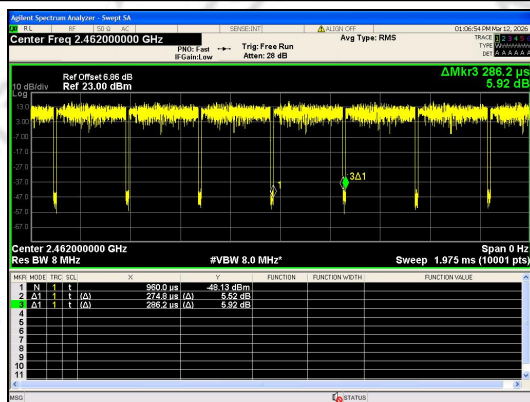
IEEE 802.11n_40MHz_Channel 9



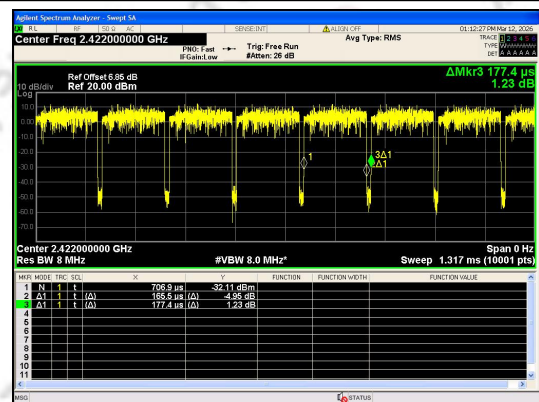
IEEE 802.11ax_20MHz_Channel 1



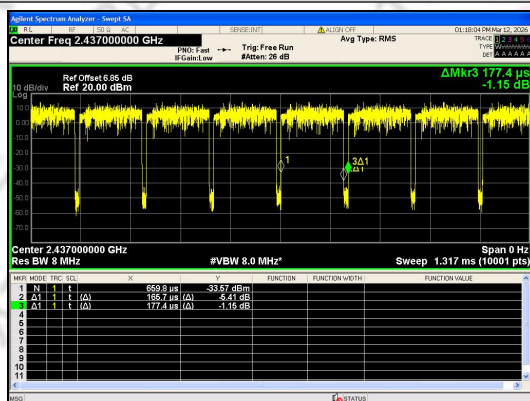
IEEE 802.11ax_20MHz_Channel 6



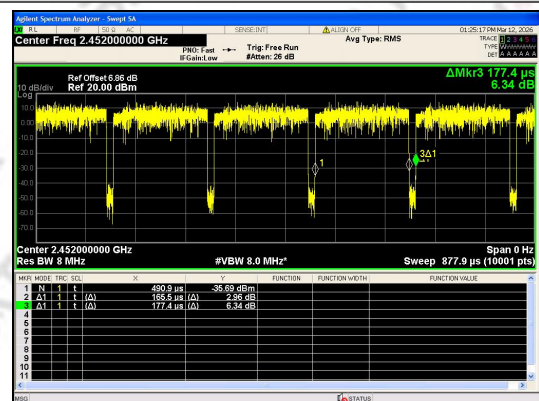
IEEE 802.11ax_20MHz_Channel 11



IEEE 802.11ax_40MHz_Channel 3



IEEE 802.11ax_40MHz_Channel 6



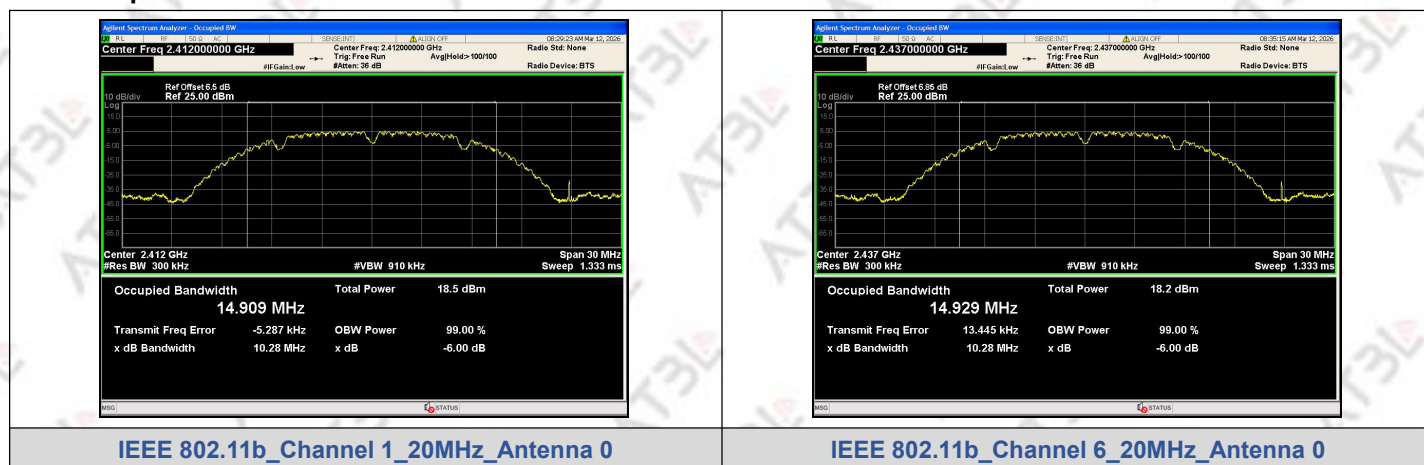
IEEE 802.11ax_40MHz_Channel 9

6dB Bandwidth

Test Result

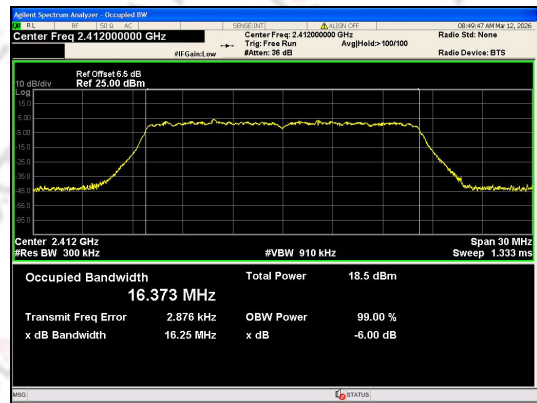
Mode	Channel	RU & Index	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	N/A	0	2412	10.28	≥0.5	PASS
	6			2437	10.28		PASS
	11			2462	10.28		PASS
IEEE 802.11g	1			2412	16.25		PASS
	6			2437	16.30		PASS
	11			2462	16.26		PASS
IEEE 802.11n_20	1			2412	17.36		PASS
	6			2437	17.39		PASS
	11			2462	17.40		PASS
IEEE 802.11n_40	3			2422	36.57		PASS
	6			2437	36.47		PASS
	9			2452	36.26		PASS
IEEE 802.11ax_20	1	SU	0	2412	19.01	≥0.5	PASS
	6			2437	19.01		PASS
	11			2462	19.02		PASS
IEEE 802.11ax_40	3			2422	37.80		PASS
	6			2437	37.74		PASS
	9			2452	37.70		PASS

Test Graphs

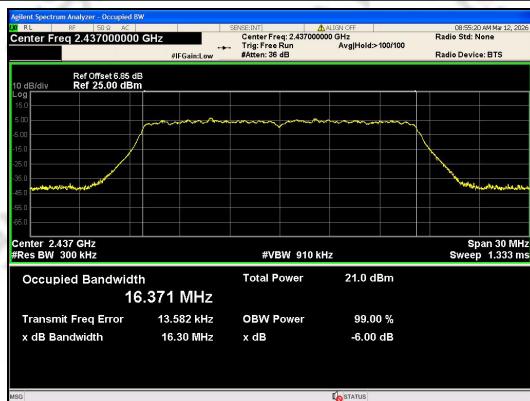




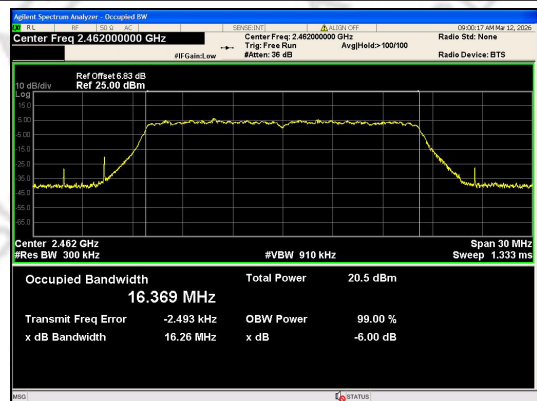
IEEE 802.11b_Channel 11_20MHz_Antenna 0



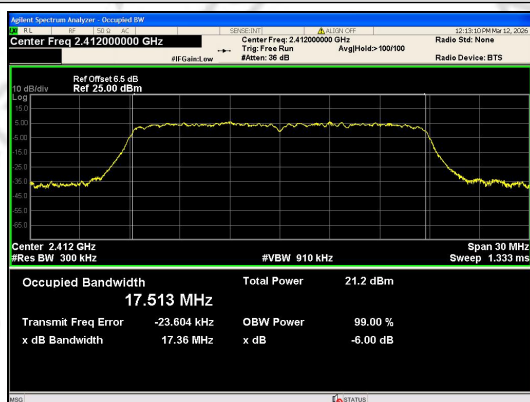
IEEE 802.11g_Channel 1_20MHz_Antenna 0



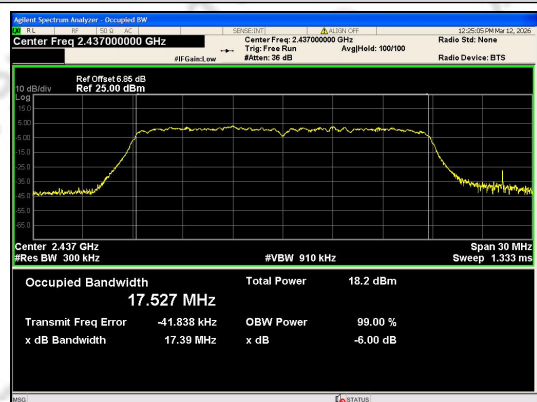
IEEE 802.11g_Channel 6_20MHz_Antenna 0



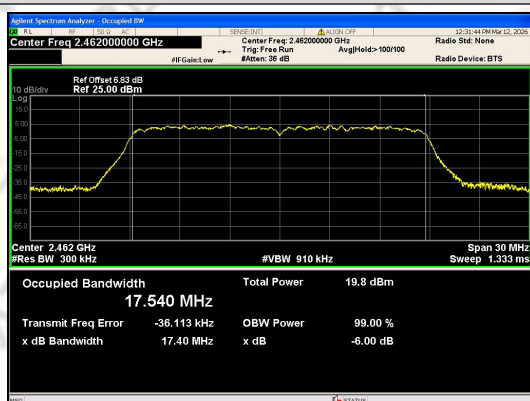
IEEE 802.11g_Channel 11_20MHz_Antenna 0



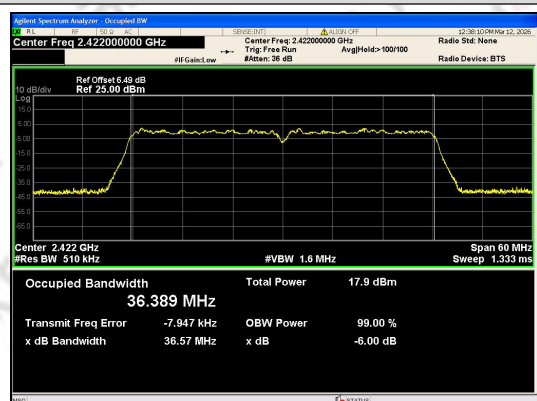
IEEE 802.11n_Channel 1_20MHz_Antenna 0



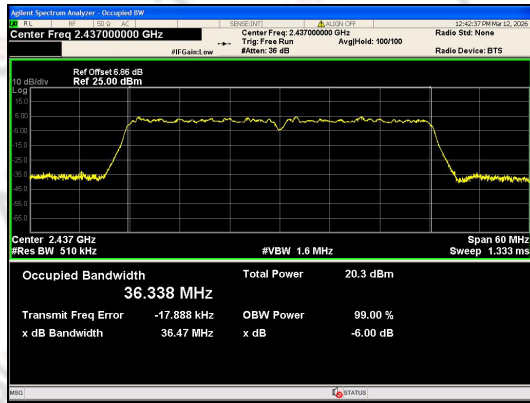
IEEE 802.11n_Channel 6_20MHz_Antenna 0



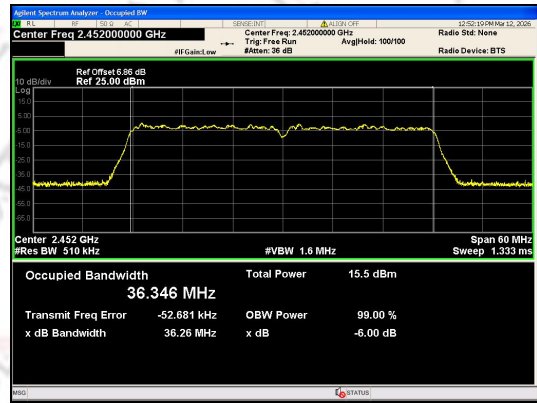
IEEE 802.11n_Channel 11_20MHz_Antenna 0



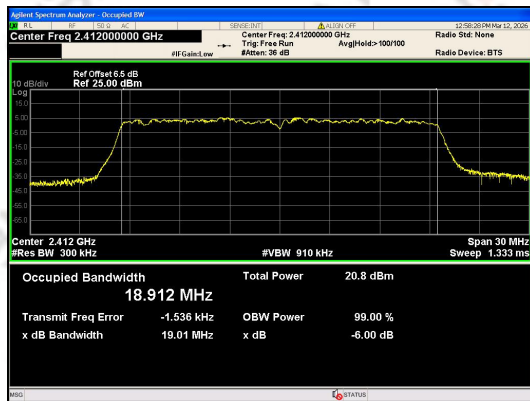
IEEE 802.11n_Channel 3_40MHz_Antenna 0



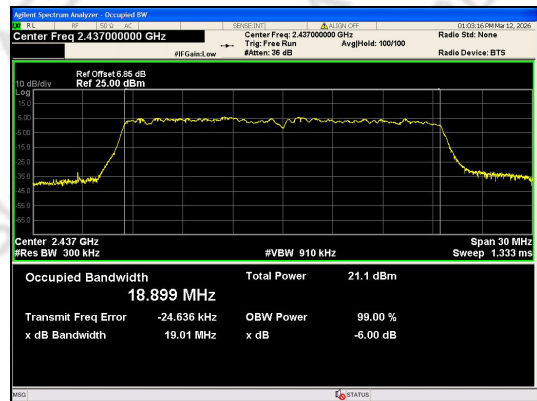
IEEE 802.11n_Channel 6_40MHz_Antenna 0



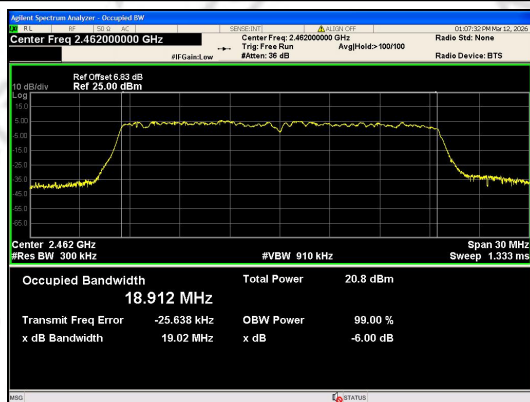
IEEE 802.11n_Channel 9_40MHz_Antenna 0



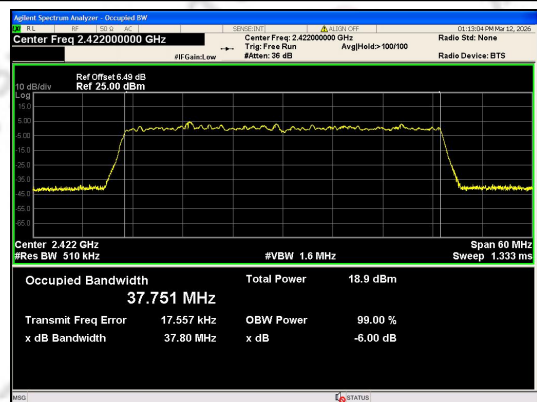
IEEE 802.11ax_Channel 1_20MHz_Antenna 0_RU&Index SU



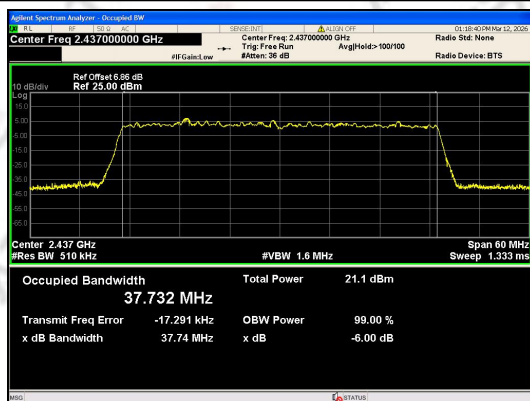
IEEE 802.11ax_Channel 6_20MHz_Antenna 0_RU&Index SU



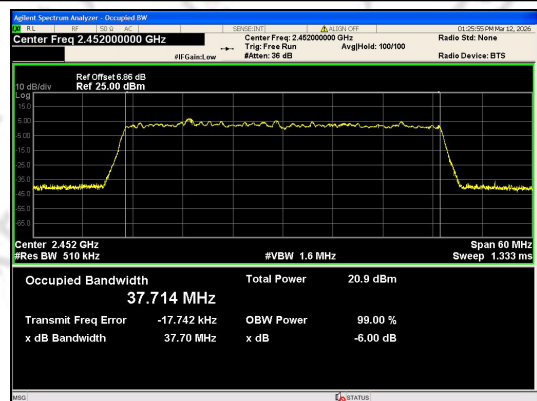
IEEE 802.11ax_Channel 11_20MHz_Antenna 0_RU&Index SU



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