

Appendix A_Conduction Data for WiFi 2.4GHz WIFI:

A1.Maximum Peak conducted output power

Test Result

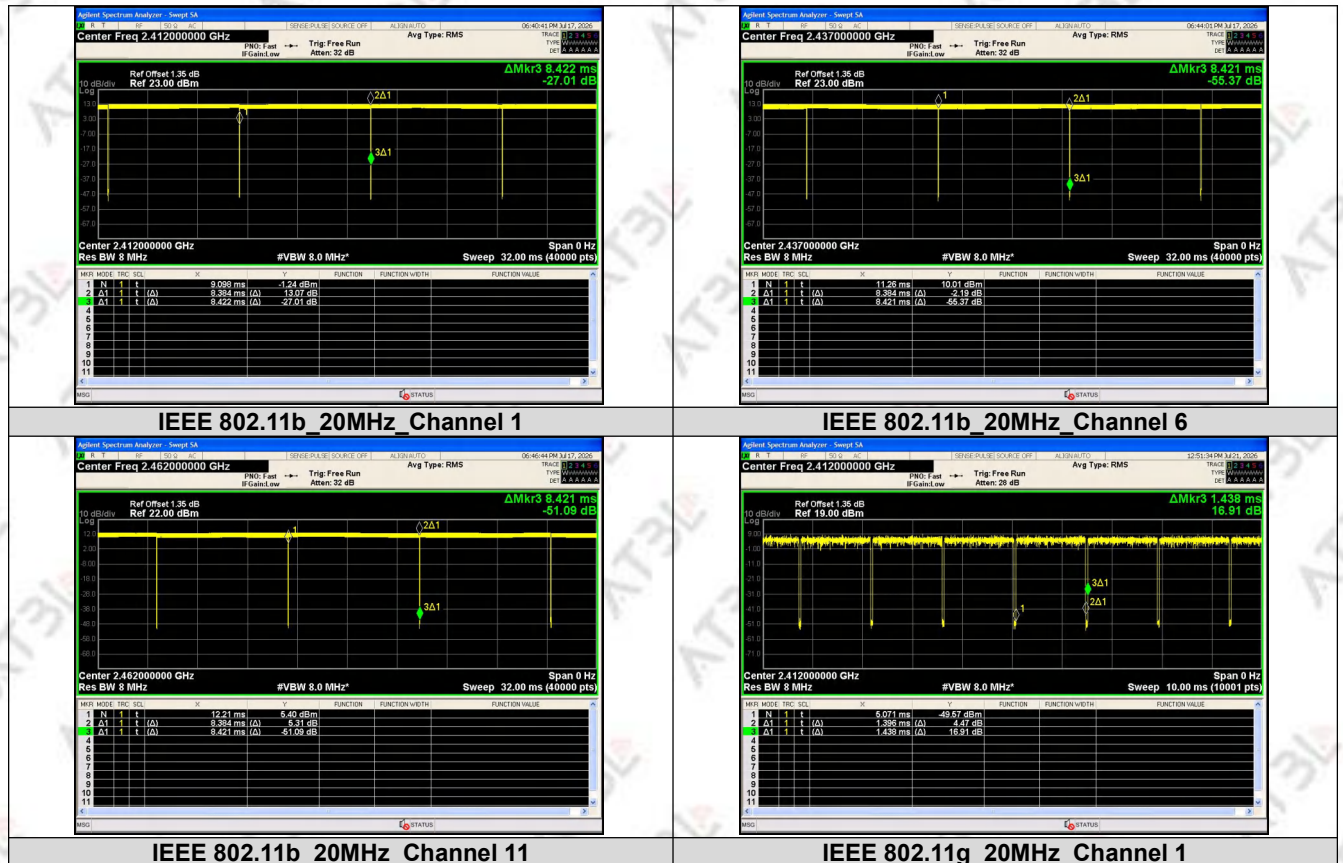
Mode	Channel	Peak Output Power (dBm)	Peak Power Limit (dBm)	Result
IEEE 802.11b	1	15.06	≤30	PASS
	6	14.84	≤30	PASS
	11	14.74	≤30	PASS
IEEE 802.11g	1	15.20	≤30	PASS
	6	15.41	≤30	PASS
	11	15.04	≤30	PASS
IEEE 802.11n_20	1	15.34	≤30	PASS
	6	15.44	≤30	PASS
	11	15.06	≤30	PASS
IEEE 802.11n_40	3	15.78	≤30	PASS
	6	15.57	≤30	PASS
	9	15.53	≤30	PASS

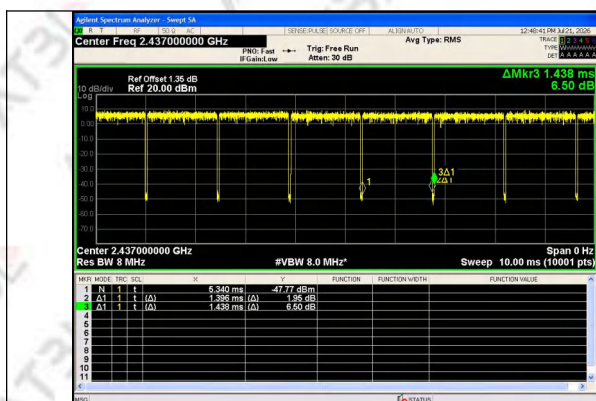
A2.Duty Cycle

Test Result

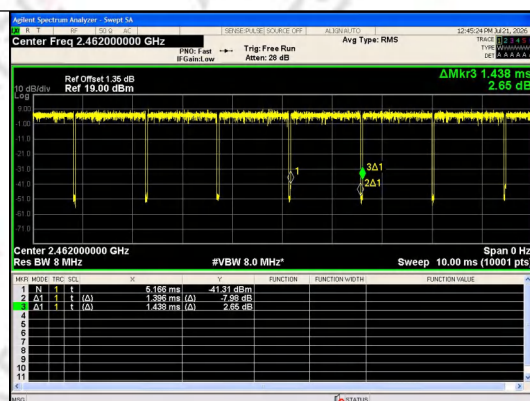
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)
IEEE 802.11b	1	1	0	8.384	8.422	99.55	0.9955	0.0196
		6		8.384	8.421	99.56	0.9956	0.0192
		11		8.384	8.421	99.56	0.9956	0.0192
IEEE 802.11g	6	1		1.396	1.438	97.08	0.9708	0.1287
		6		1.396	1.438	97.08	0.9708	0.1287
		11		1.396	1.438	97.08	0.9708	0.1287
IEEE 802.11n_20	MCS 0	1		1.303	1.346	96.84	0.9684	0.1395
		6		1.302	1.345	96.84	0.9684	0.1395
		11		1.303	1.345	96.89	0.9689	0.1372
IEEE 802.11n_40		3		0.650	0.693	93.84	0.9384	0.2761
		6		0.650	0.693	93.84	0.9384	0.2761
		9		0.650	0.692	93.84	0.9384	0.2761

Test Graphs

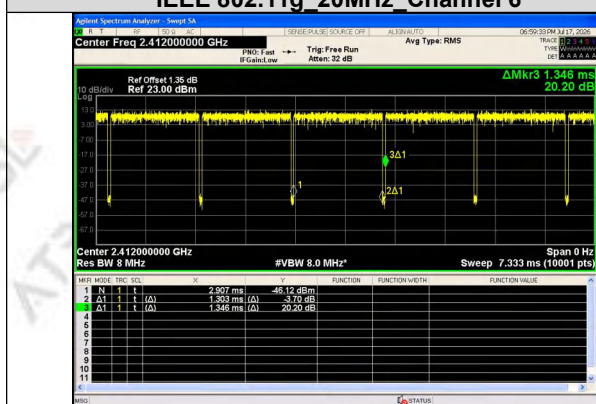




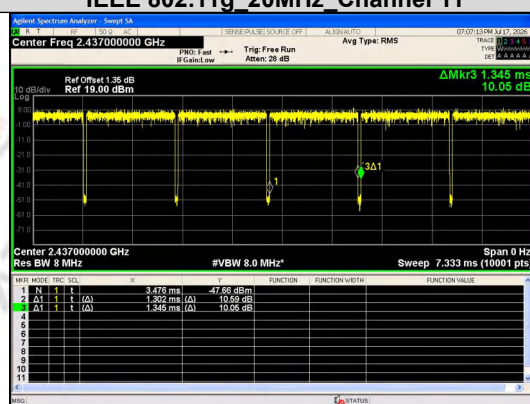
IEEE 802.11g 20MHz Channel 6



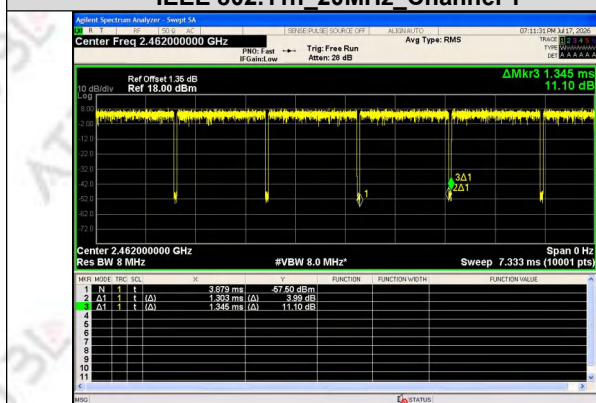
IEEE 802.11g 20MHz Channel 11



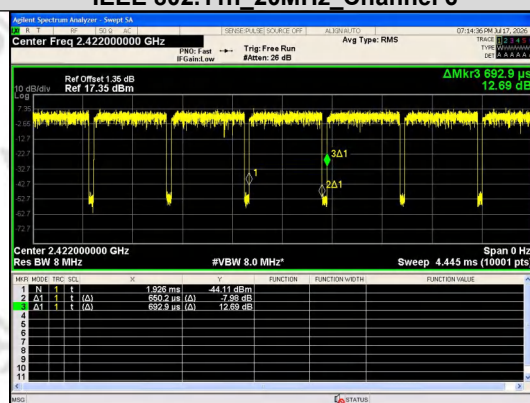
IEEE 802.11n 20MHz Channel 1



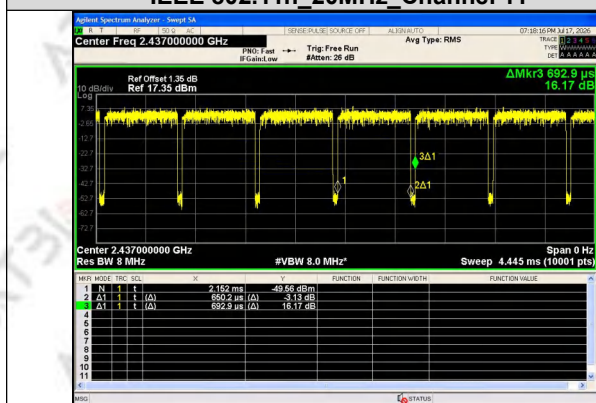
IEEE 802.11n 20MHz Channel 6



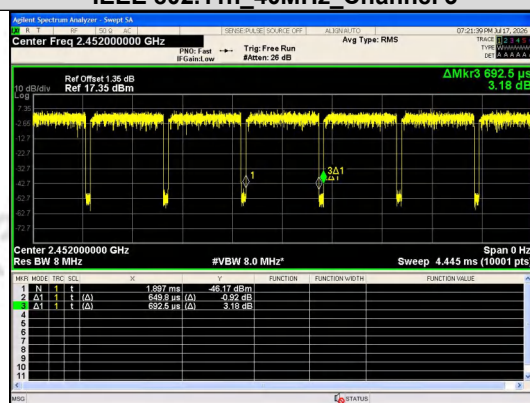
IEEE 802.11n 20MHz Channel 11



IEEE 802.11n 40MHz Channel 3



IEEE 802.11n 40MHz Channel 6



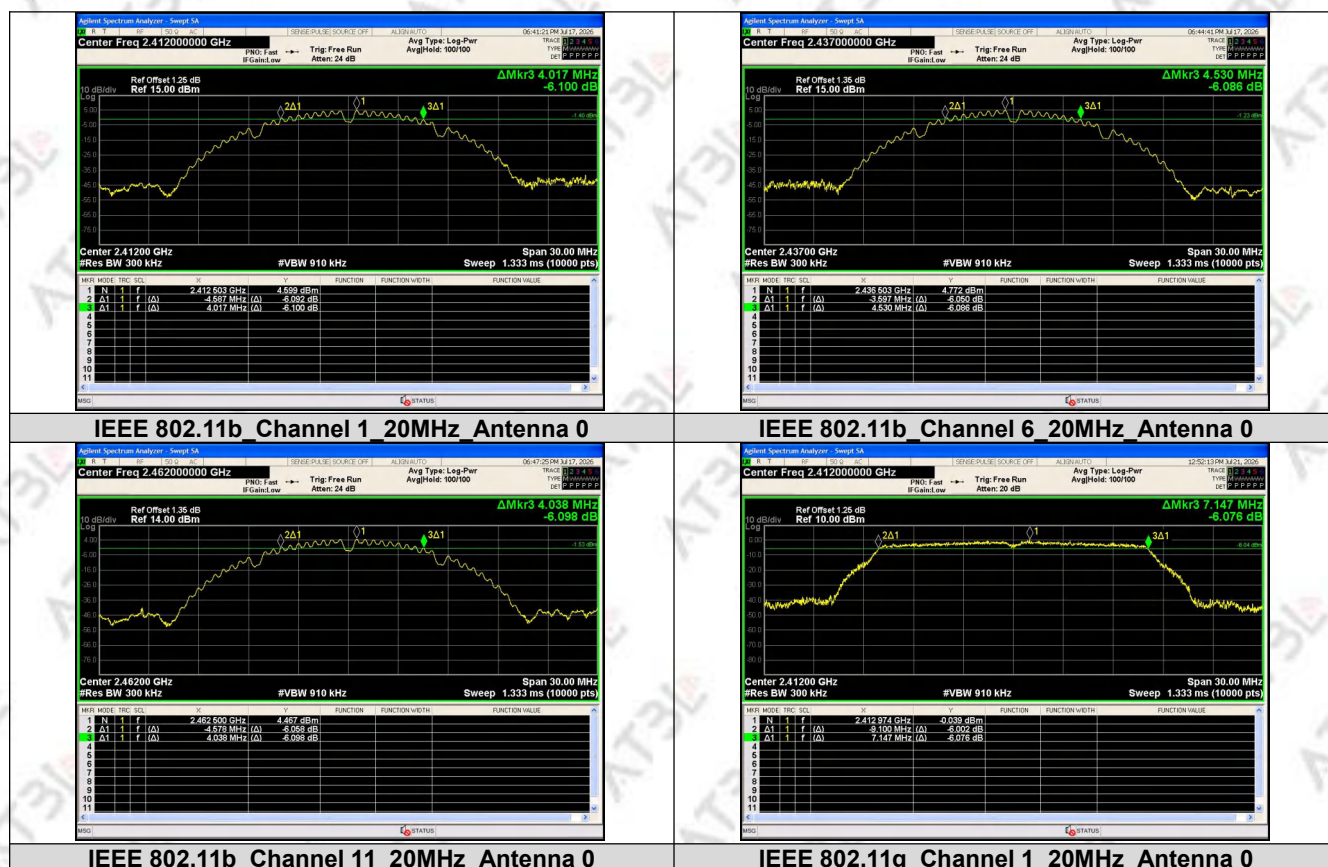
IEEE 802.11n 40MHz Channel 9

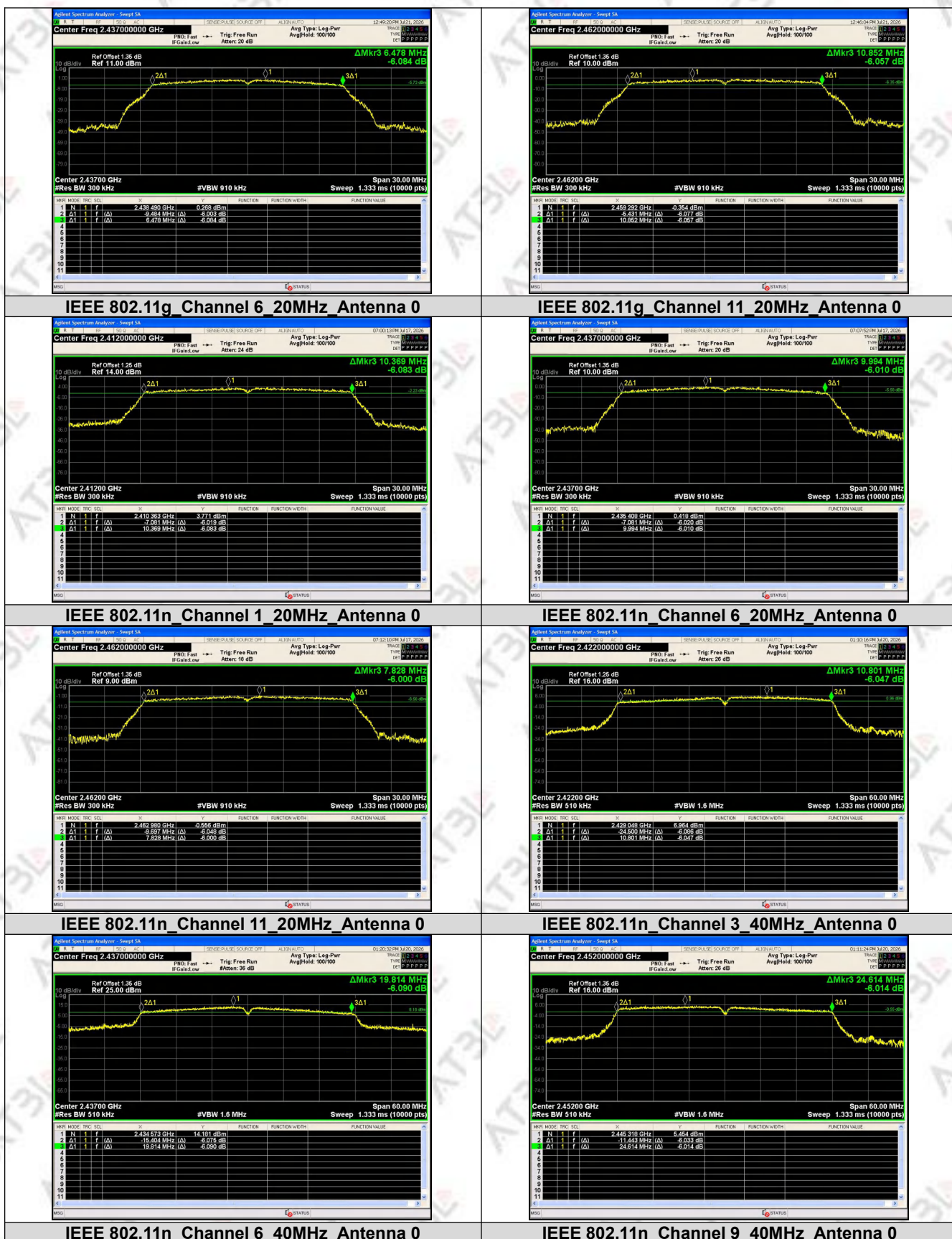
A3.6dB Bandwidth

Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	8.600	≥0.5	PASS
	6		2437	8.120		PASS
	11		2462	8.620		PASS
IEEE 802.11g	1		2412	16.25		PASS
	6		2437	15.96		PASS
	11		2462	16.28		PASS
IEEE 802.11n_20	1		2412	17.45		PASS
	6		2437	17.07		PASS
	11		2462	17.53		PASS
IEEE 802.11n_40	3		2422	35.30		PASS
	6		2437	35.22		PASS
	9		2452	36.05		PASS

Test Graphs





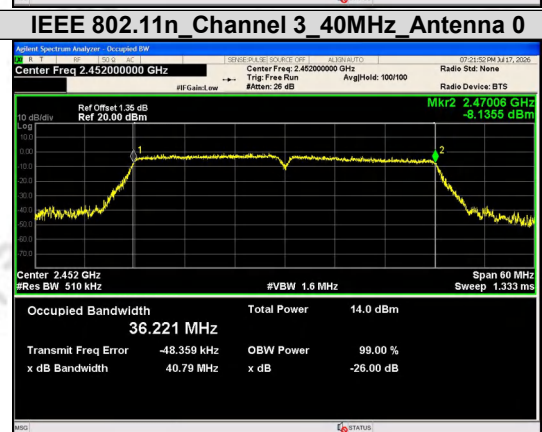
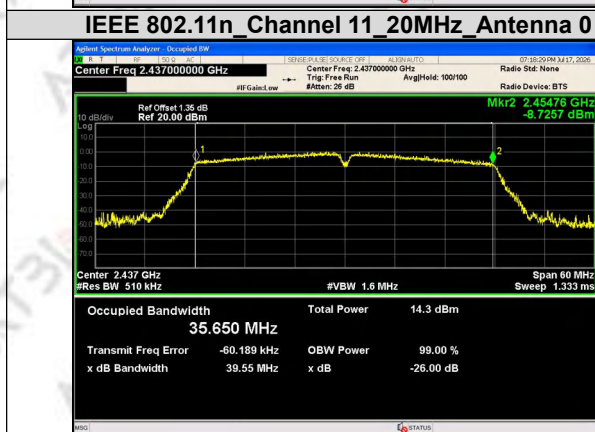
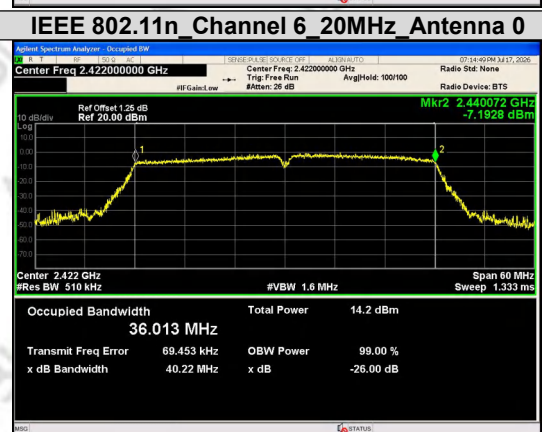
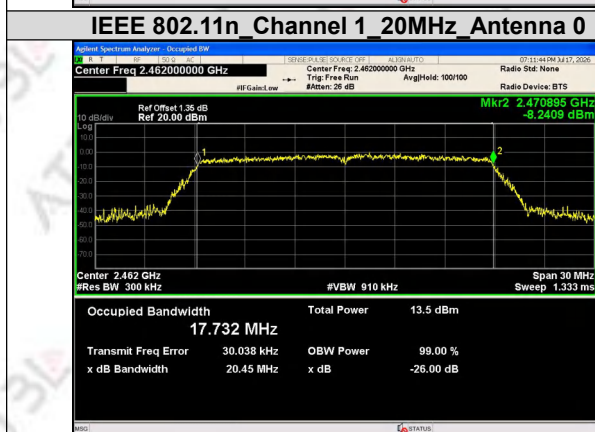
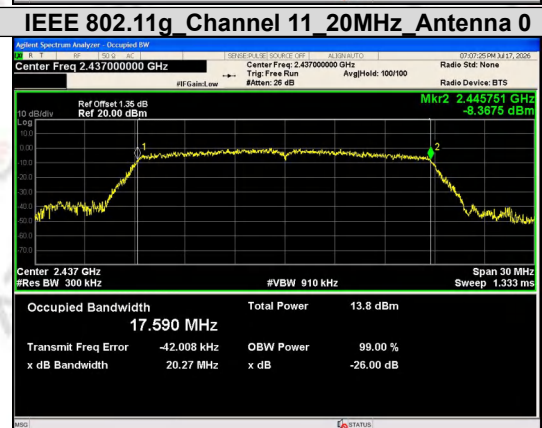
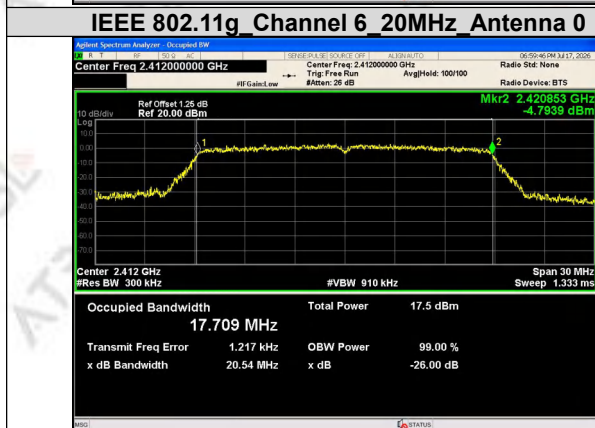
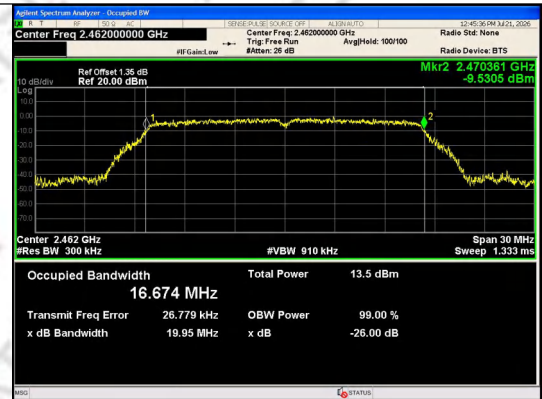
99%dB Bandwidth

Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11b	1	0	2412	12.939
	6		2437	12.621
	11		2462	12.955
IEEE 802.11g	1		2412	16.696
	6		2437	16.440
	11		2462	16.674
IEEE 802.11n_20	1		2412	17.709
	6		2437	17.590
	11		2462	17.732
IEEE 802.11n_40	3		2422	36.013
	6		2437	35.650
	9		2452	36.221

Test Graphs



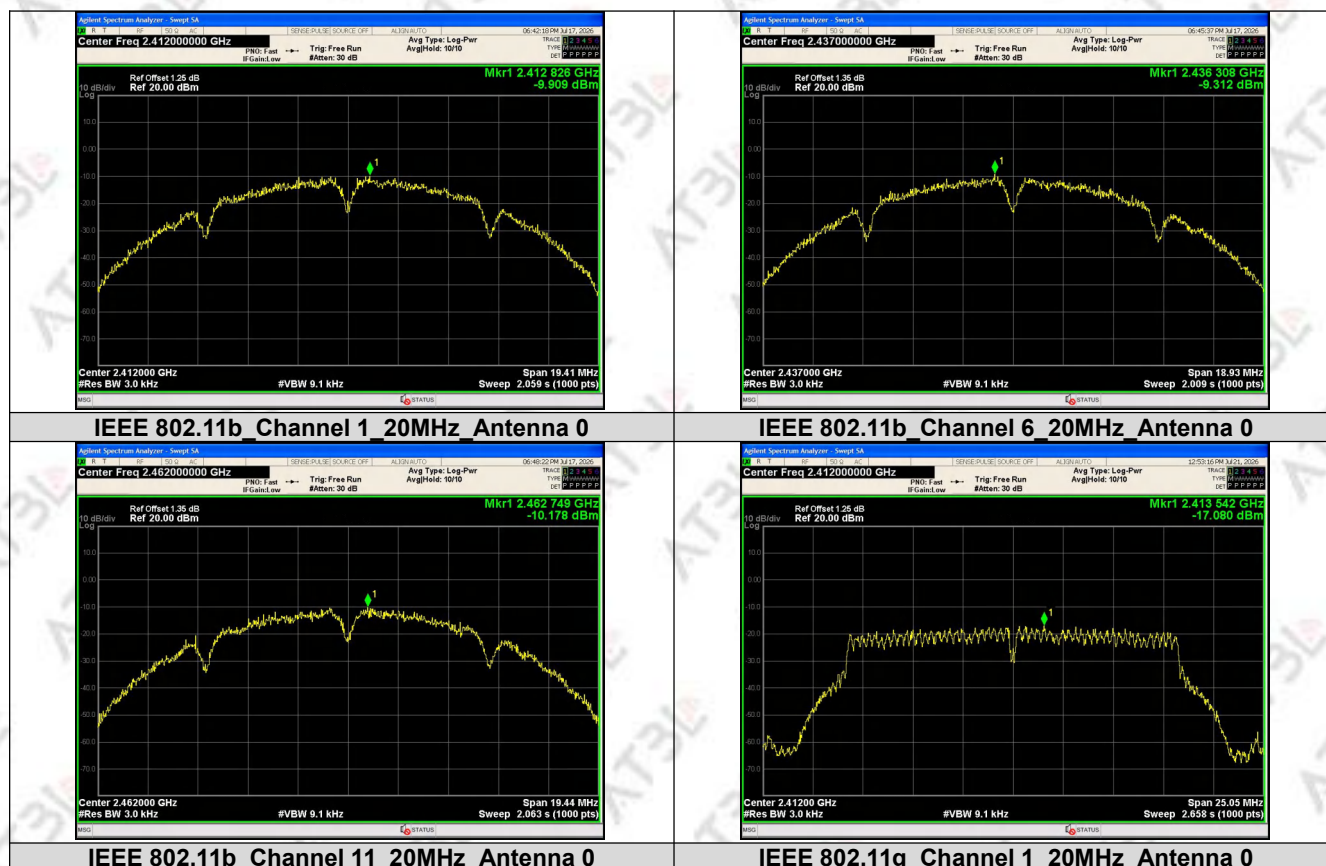


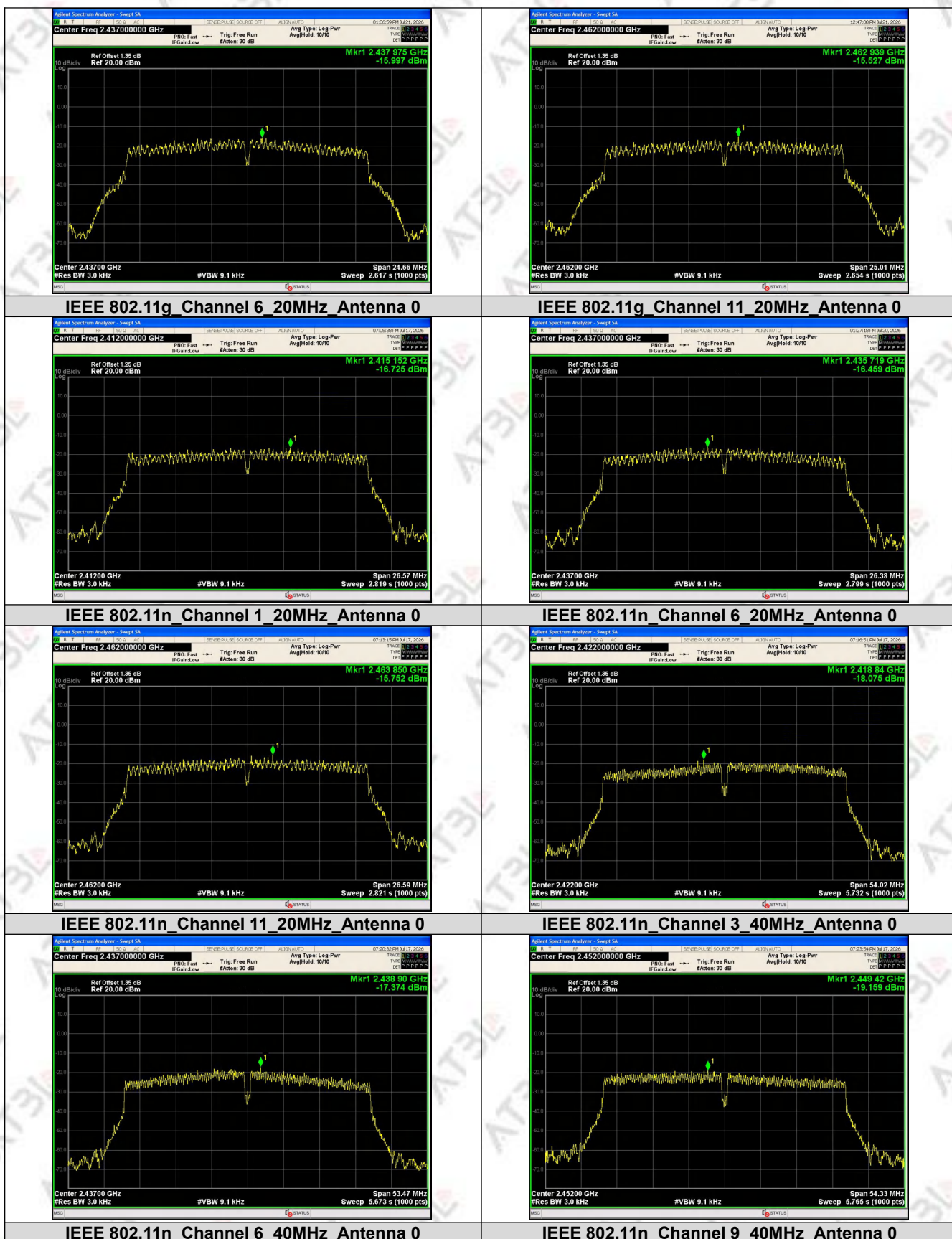
A4.Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-9.91	≤8	PASS
	6	-9.31		PASS
	11	-10.18		PASS
IEEE 802.11g	1	-17.08		PASS
	6	-16.00		PASS
	11	-15.53		PASS
IEEE 802.11n_20	1	-16.73		PASS
	6	-16.46		PASS
	11	-15.75		PASS
IEEE 802.11n_40	3	-18.07		PASS
	6	-17.37		PASS
	9	-19.16		PASS

Test Graphs



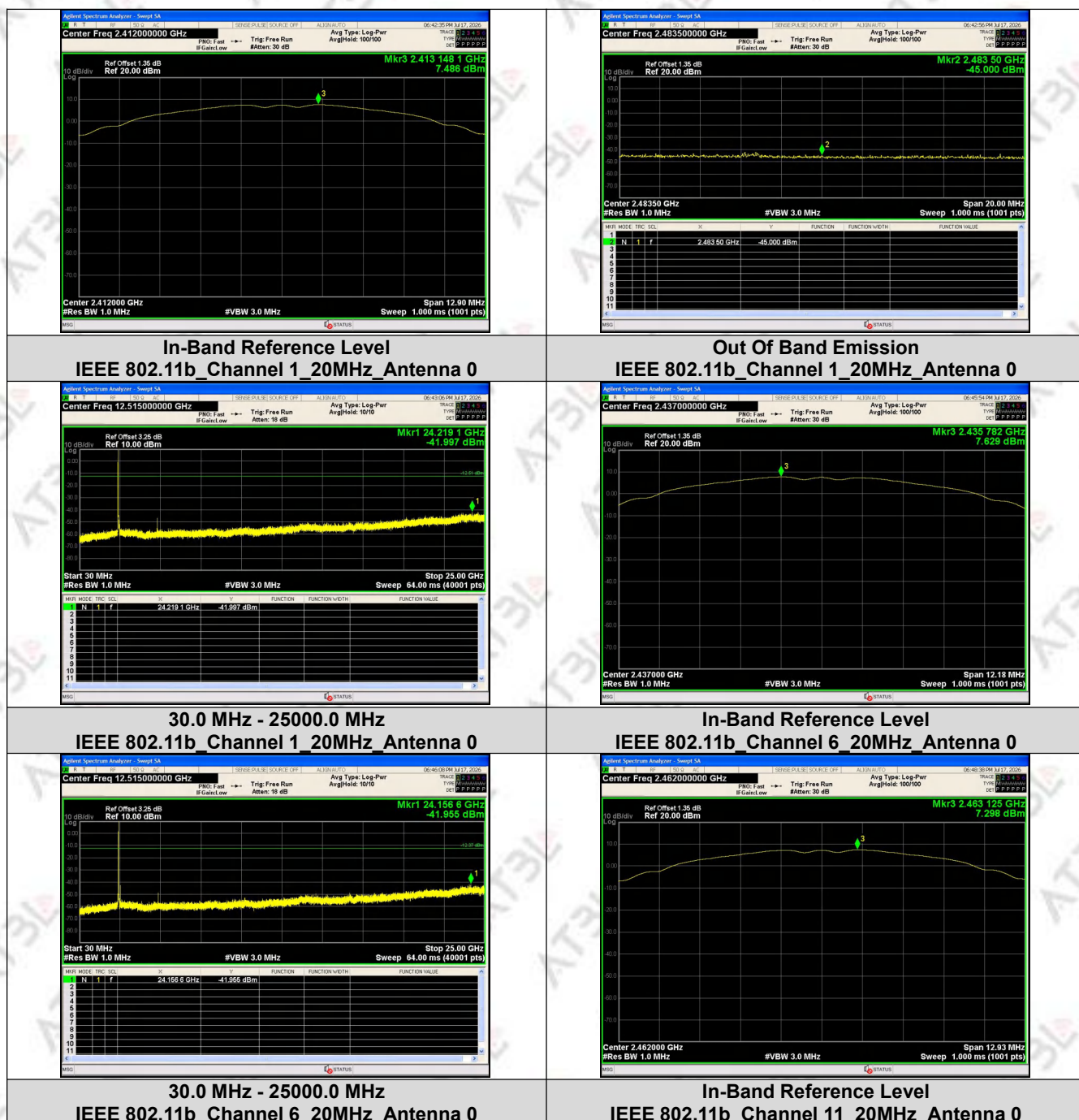


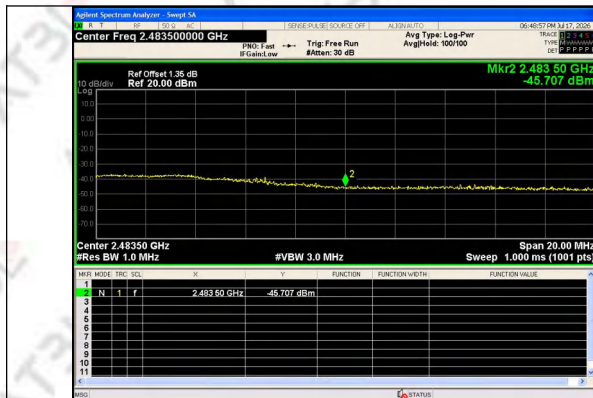
A5.Conducted Band Edge and Conducted Spurious Emission

Test Result

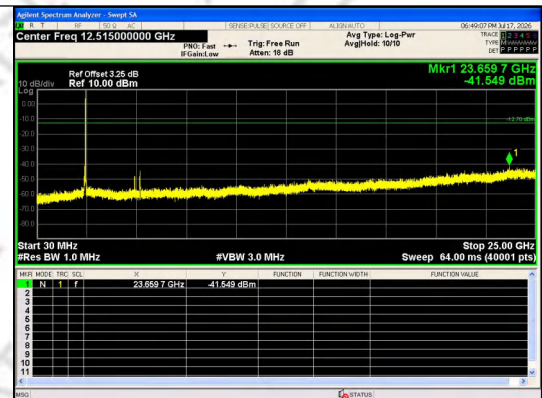
Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2483.50	-45.000	-12.51	-32.490	PASS
			24219.1	-41.997	-12.51	-29.487	PASS
	6		24156.6	-41.955	-12.37	-29.585	PASS
	11		2483.50	-45.707	-12.7	-33.007	PASS
			23659.7	-41.549	-12.7	-28.849	PASS
IEEE 802.11g	1		1716.10	-40.352	-14.69	-25.662	PASS
			2483.50	-44.513	-14.69	-29.823	PASS
	6		2527.62	-41.064	-13.18	-27.884	PASS
	11		2483.50	-44.704	-14.17	-30.534	PASS
			24137.9	-42.779	-14.17	-28.609	PASS
IEEE 802.11n_20	1	2483.50	-45.473	-14.18	-31.293	PASS	
		23563.6	-41.803	-14.18	-27.623	PASS	
	6	23769.6	-42.767	-12.62	-30.147	PASS	
	11	2483.50	-45.875	-14.41	-31.465	PASS	
		24468.1	-42.509	-14.41	-28.099	PASS	
IEEE 802.11n_40	3	1729.21	-39.115	-15.66	-23.455	PASS	
		2483.50	-46.318	-15.66	-30.658	PASS	
	6	2590.05	-37.286	-15.41	-21.876	PASS	
	9	2483.50	-38.080	-16.49	-21.590	PASS	
		23895.1	-42.598	-16.49	-26.108	PASS	

Test Graphs





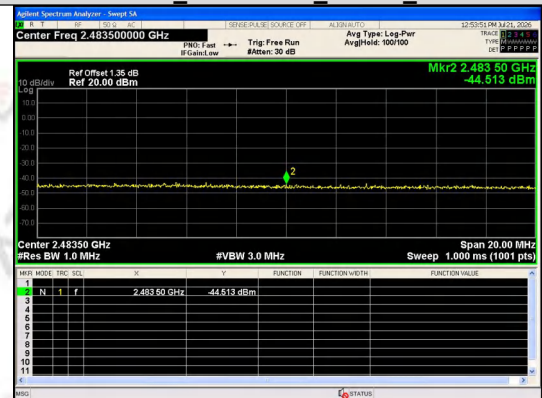
Out Of Band Emission
IEEE 802.11b Channel 11 20MHz Antenna 0



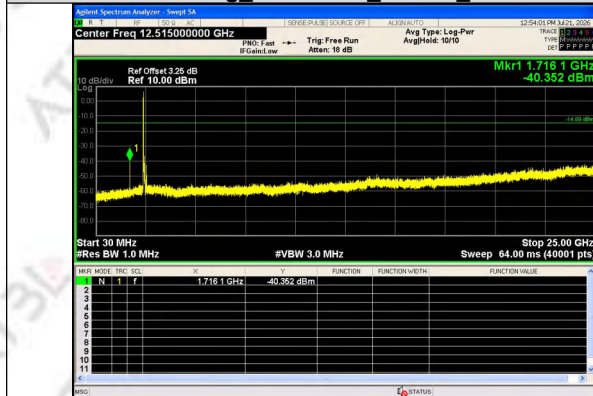
30.0 MHz - 25000.0 MHz
IEEE 802.11b Channel 11 20MHz Antenna 0



In-Band Reference Level
IEEE 802.11g Channel 1 20MHz Antenna 0



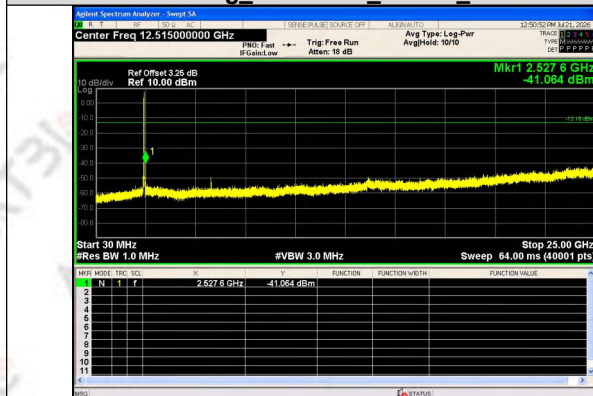
Out Of Band Emission
IEEE 802.11g Channel 1 20MHz Antenna 0



30.0 MHz - 25000.0 MHz
IEEE 802.11g Channel 1 20MHz Antenna 0



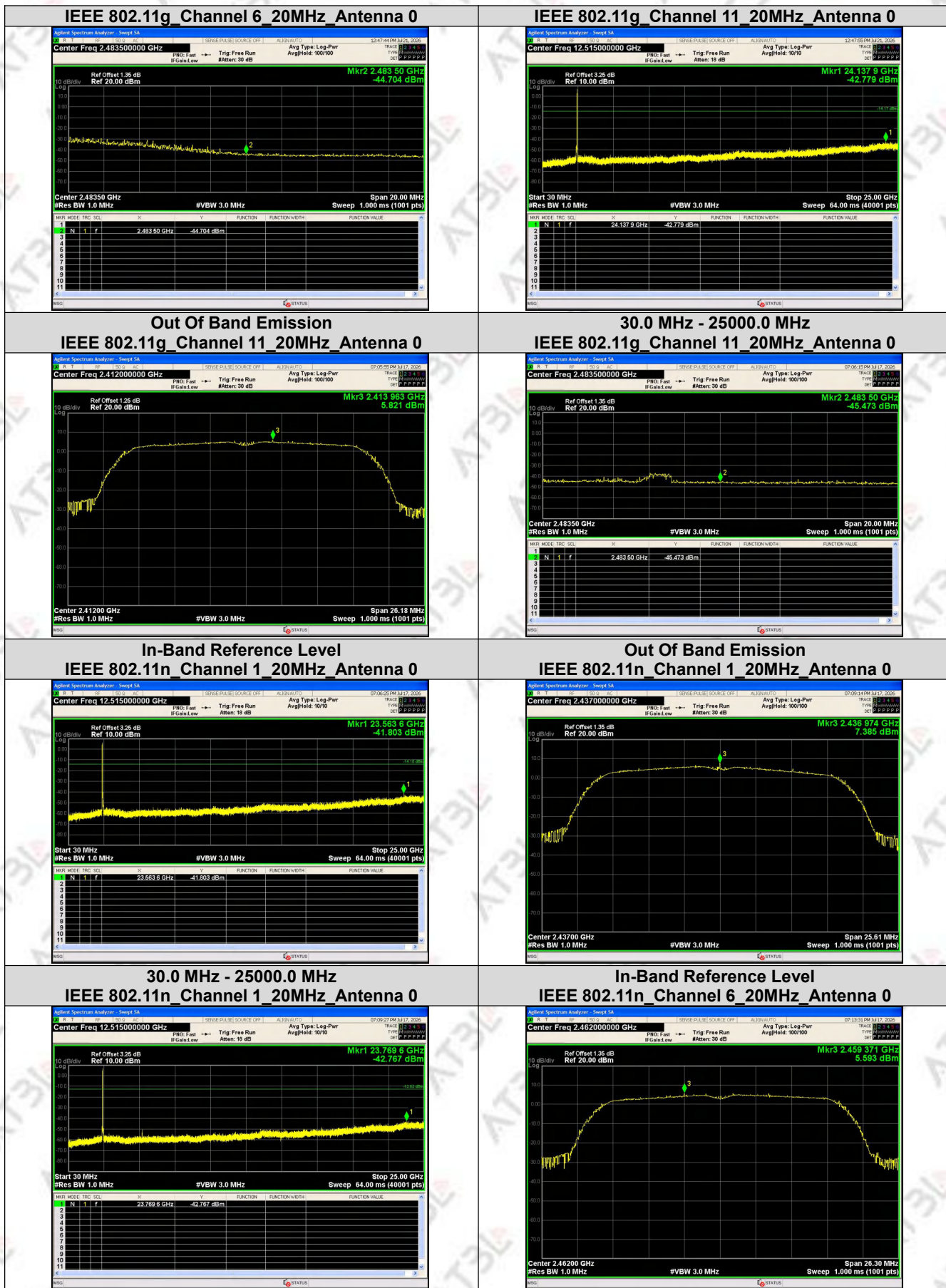
In-Band Reference Level
IEEE 802.11g Channel 6 20MHz Antenna 0

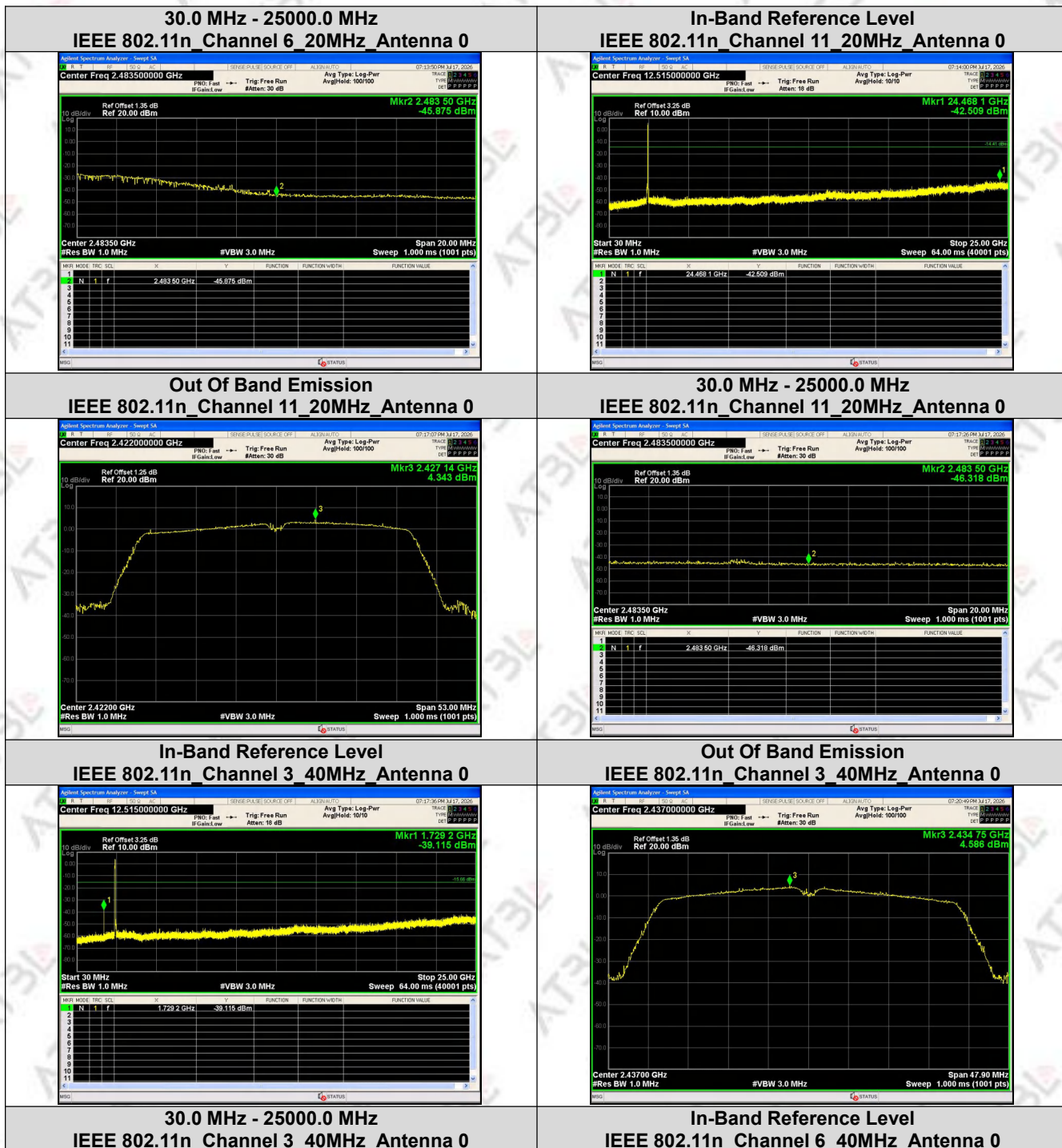


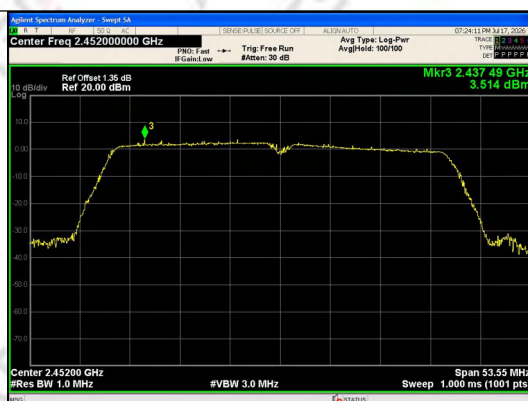
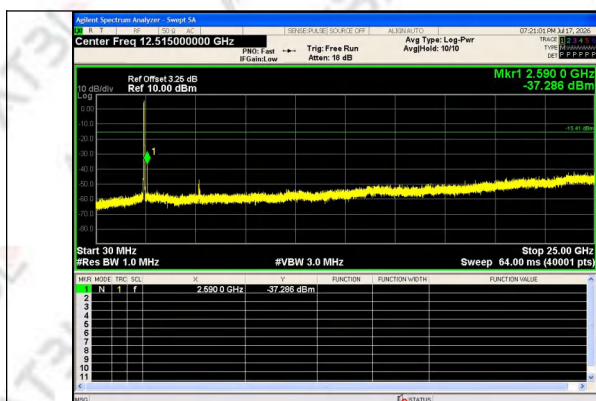
30.0 MHz - 25000.0 MHz



In-Band Reference Level

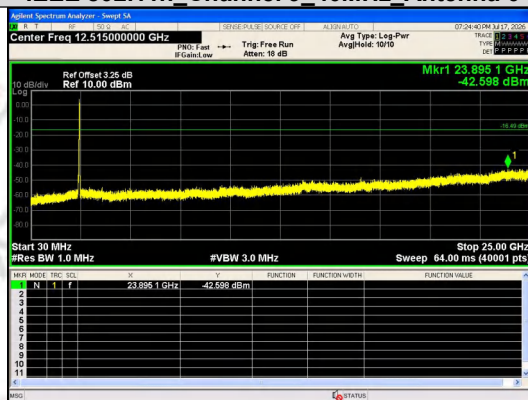
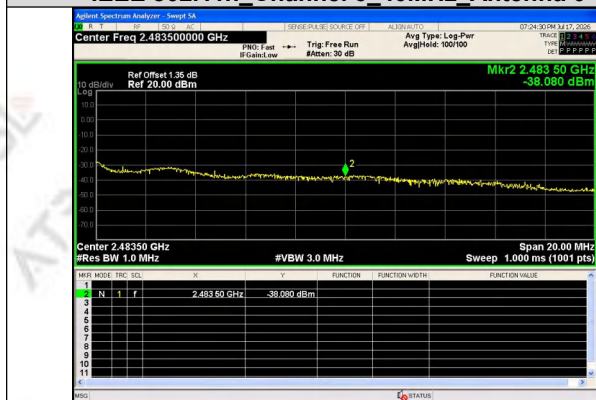






30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_40MHz_Antenna 0

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

*****END*****