

Appendix Report

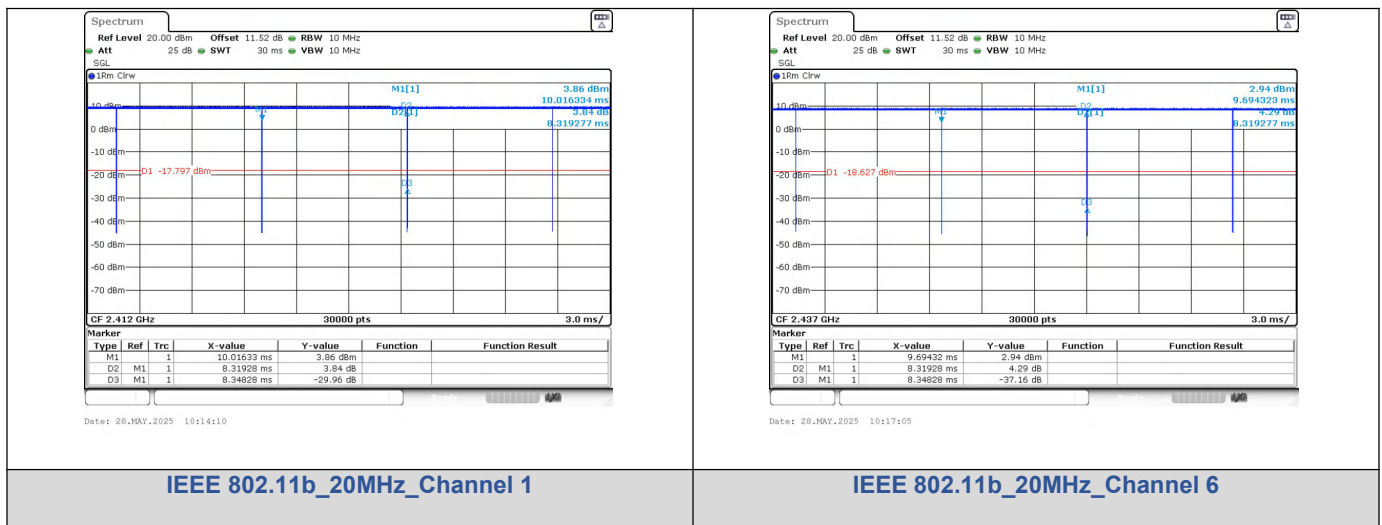
Project No.:	CISR250522141
Test Engineer:	James Wang
Supervised by:	Rory Huang

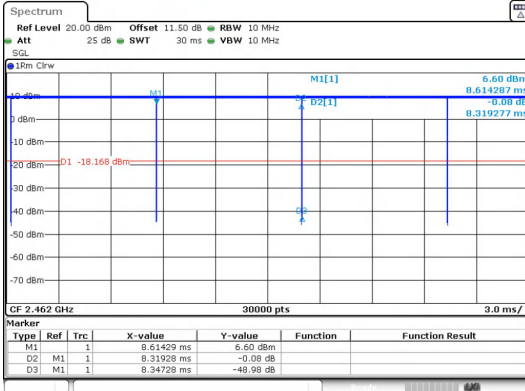
Duty Cycle

Test Result

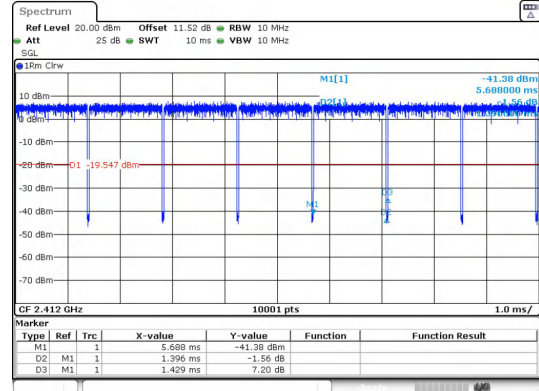
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11b	1	1	1	8.319	8.348	99.65	0.9965	0.0152	0.1202
		6		8.319	8.348	99.65	0.9965	0.0152	0.1202
		11		8.319	8.347	99.66	0.9966	0.0148	0.1202
IEEE 802.11g		1		1.396	1.429	97.69	0.9769	0.1015	0.7163
		6		1.396	1.429	97.69	0.9769	0.1015	0.7163
		11		1.396	1.429	97.69	0.9769	0.1015	0.7163
IEEE 802.11n_20	MCS 0	1		1.304	1.337	97.53	0.9753	0.1086	0.7669
		6		1.304	1.337	97.53	0.9753	0.1086	0.7669
		11		1.304	1.337	97.53	0.9753	0.1086	0.7669

Test Graphs





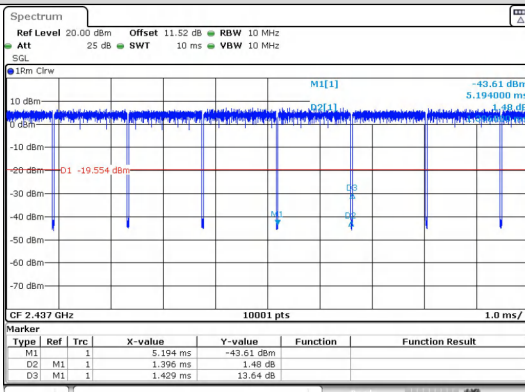
Date: 28.MAY.2025 10:25:30



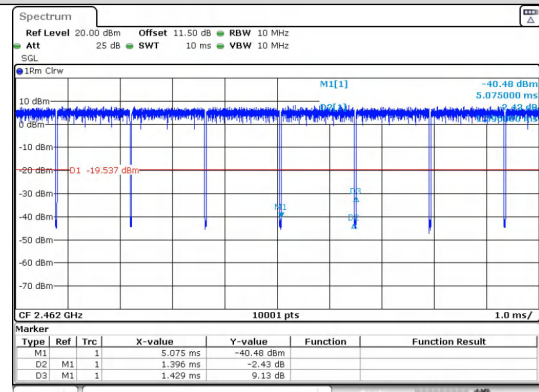
Date: 28.MAY.2025 10:29:53

IEEE 802.11b_20MHz_Channel 11

IEEE 802.11g_20MHz_Channel 1



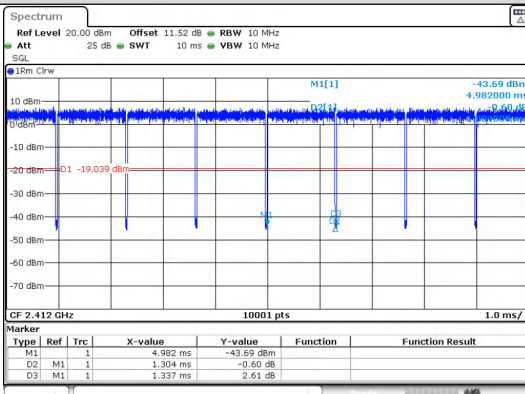
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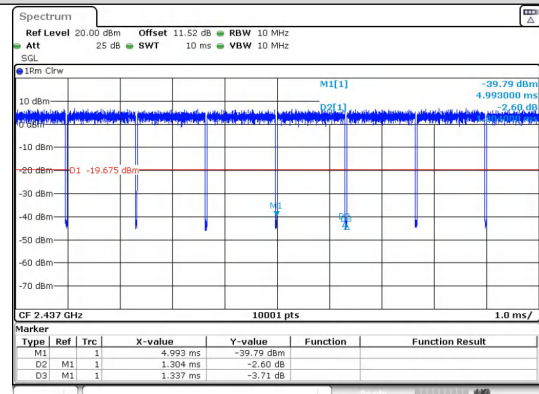
Date: 28.MAY.2025 10:35:20

IEEE 802.11g_20MHz_Channel 6

IEEE 802.11g_20MHz_Channel 11



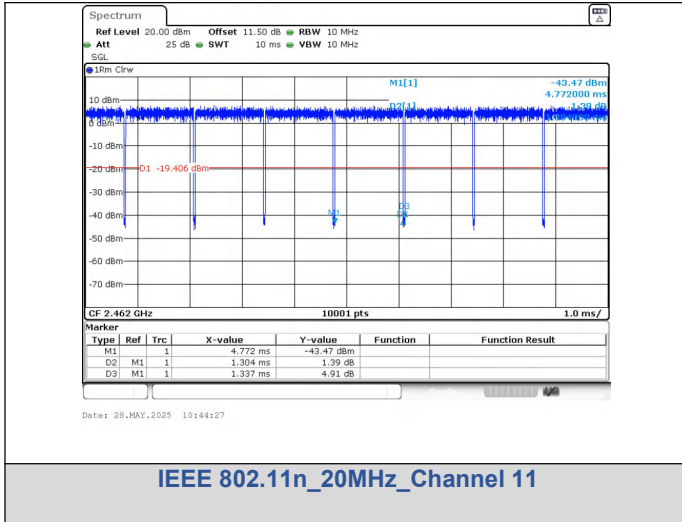
Date: 28.MAY.2025 10:38:19



Date: 28.MAY.2025 10:41:50

IEEE 802.11n_20MHz_Channel 1

IEEE 802.11n_20MHz_Channel 6

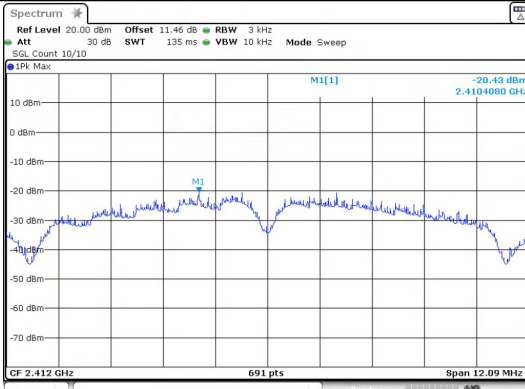


Power Spectral Density

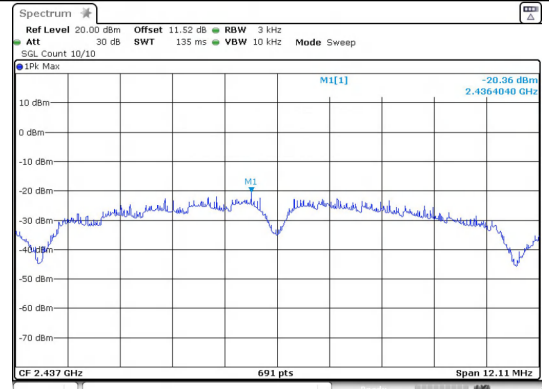
Test Result

Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-20.430	≤8	PASS
	6	-20.360		PASS
	11	-17.210		PASS
IEEE 802.11g	1	-25.170		PASS
	6	-25.060		PASS
	11	-23.140		PASS
IEEE 802.11n_20	1	-26.320		PASS
	6	-25.270		PASS
	11	-24.460		PASS

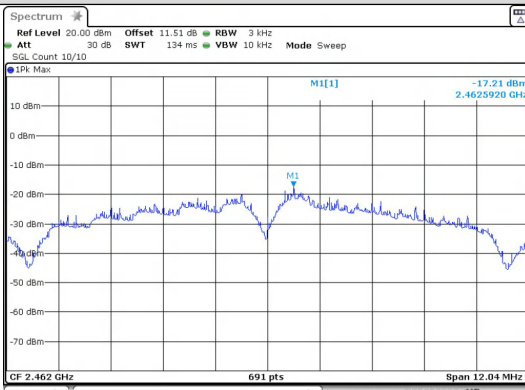
Test Graphs



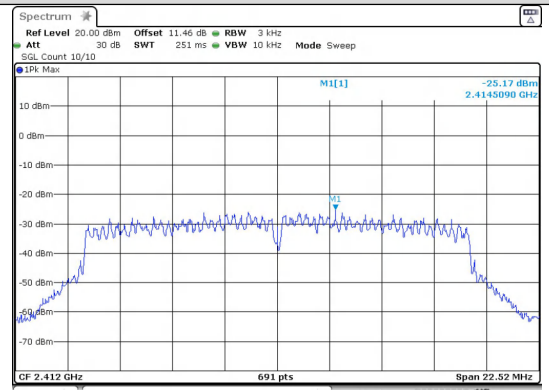
IEEE 802.11b_Channel 1_20MHz_Antenna 0



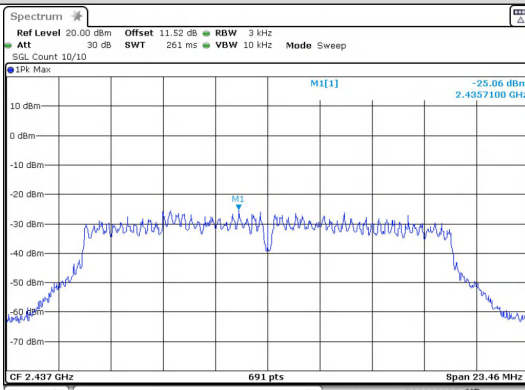
IEEE 802.11b_Channel 6_20MHz_Antenna 0



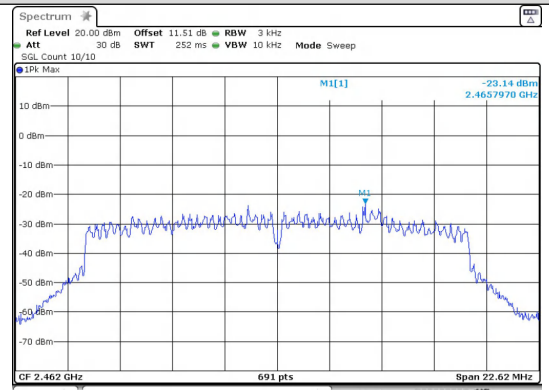
IEEE 802.11b_Channel 11_20MHz_Antenna 0



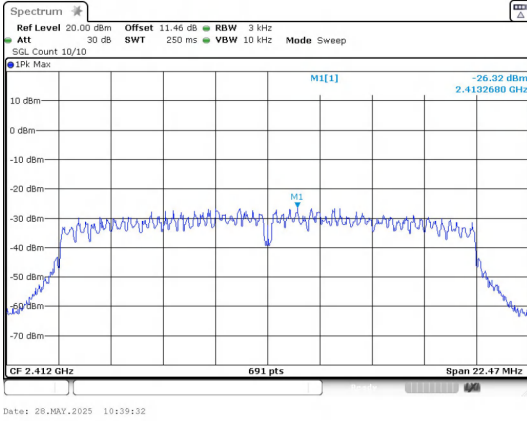
IEEE 802.11g_Channel 1_20MHz_Antenna 0



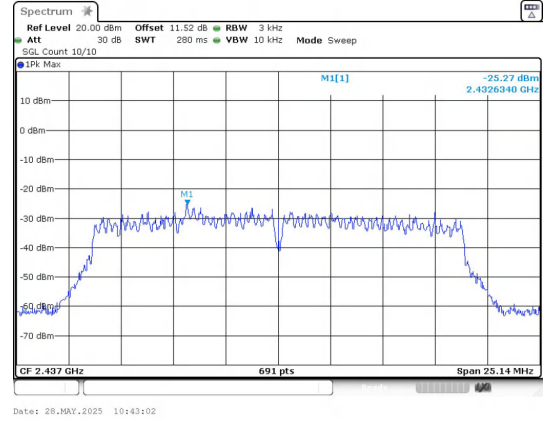
IEEE 802.11g_Channel 6_20MHz_Antenna 0



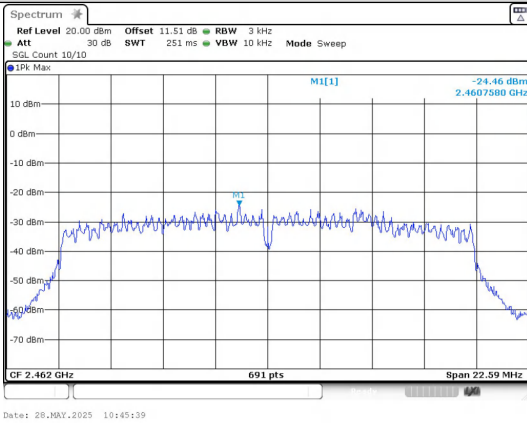
IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0



IEEE 802.11n_Channel 6_20MHz_Antenna 0



IEEE 802.11n_Channel 11_20MHz_Antenna 0

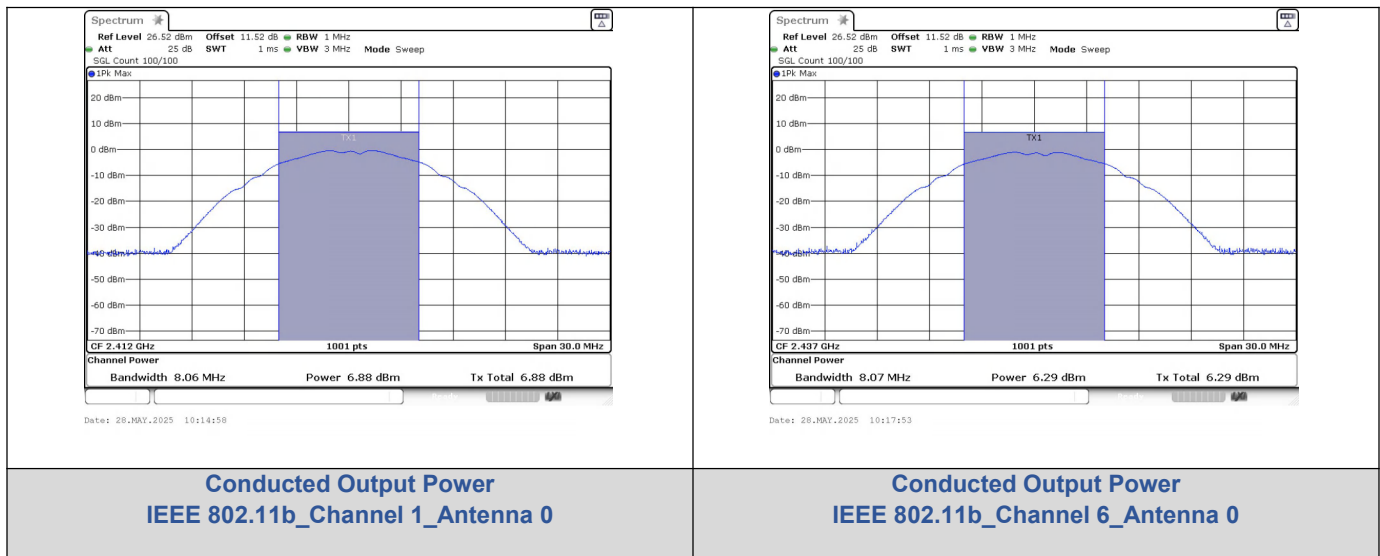
Conducted Output Power

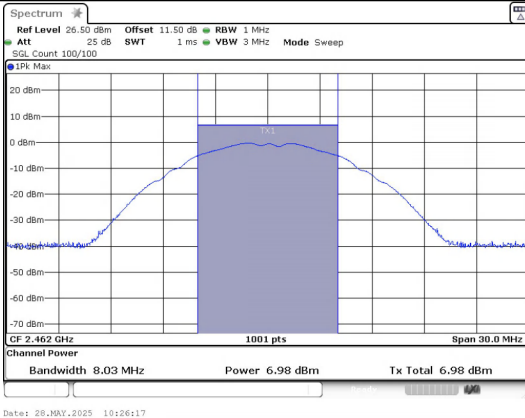
Test Result

Conducted Output Power

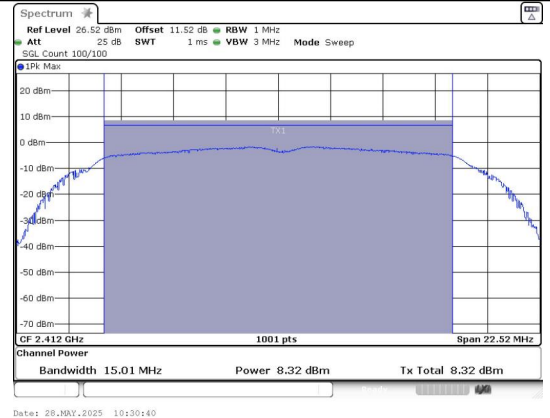
Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	6.88	≤30	PASS
	6	6.29	≤30	PASS
	11	6.98	≤30	PASS
IEEE 802.11g	1	8.32	≤30	PASS
	6	7.85	≤30	PASS
	11	8.53	≤30	PASS
IEEE 802.11n_20	1	7.75	≤30	PASS
	6	7.53	≤30	PASS
	11	8.01	≤30	PASS

Test Graphs

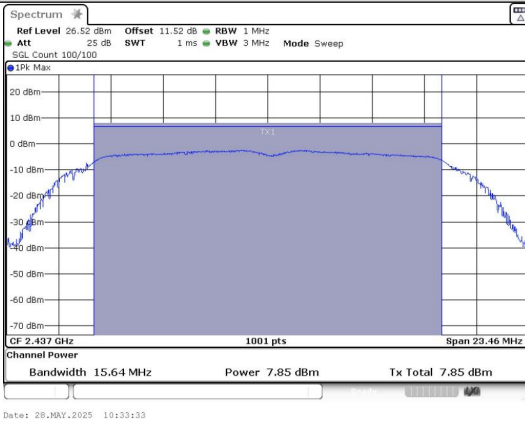




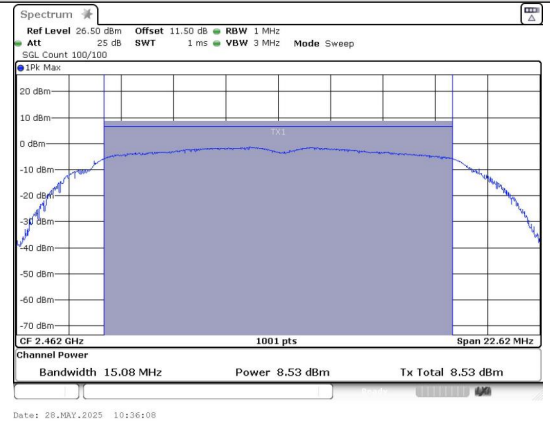
Conducted Output Power
IEEE 802.11b_Channel 11_Antenna 0



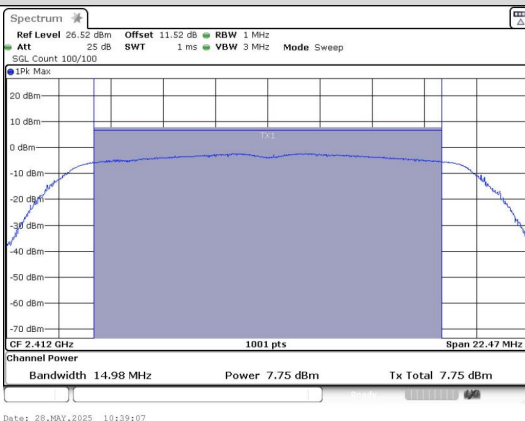
Conducted Output Power
IEEE 802.11g_Channel 1_Antenna 0



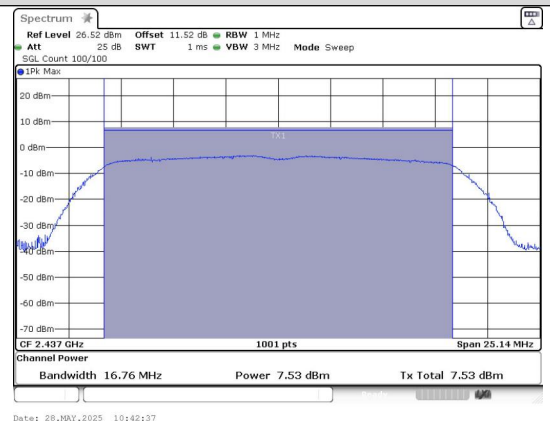
Conducted Output Power
IEEE 802.11g_Channel 6_Antenna 0



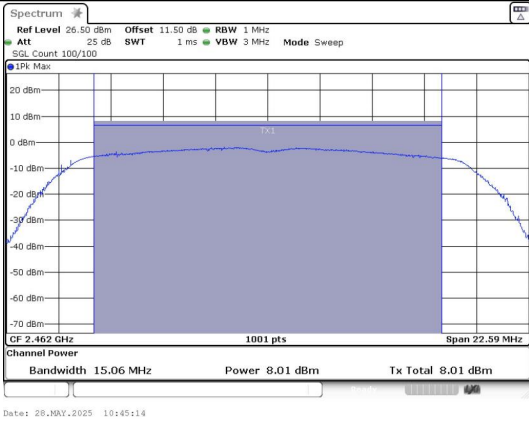
Conducted Output Power
IEEE 802.11g_Channel 11_Antenna 0



Conducted Output Power
IEEE 802.11n_20_Channel 1_Antenna 0



Conducted Output Power
IEEE 802.11n_20_Channel 6_Antenna 0



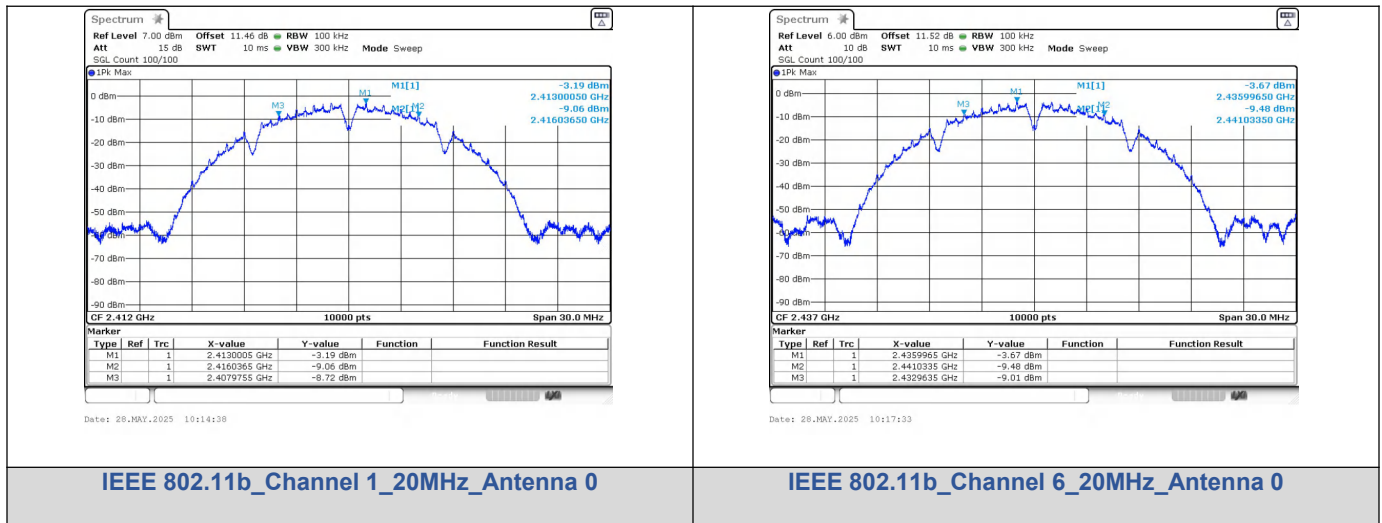
Conducted Output Power
IEEE 802.11n_20_Channel 11_Antenna 0

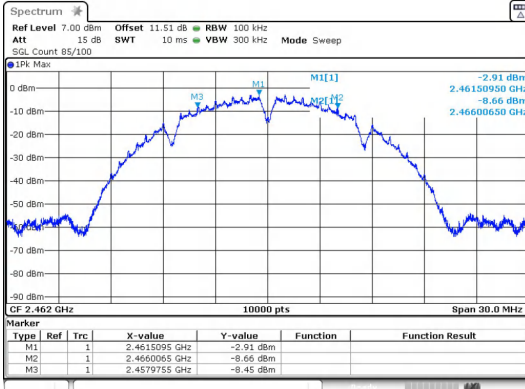
6dB Bandwidth

Test Result

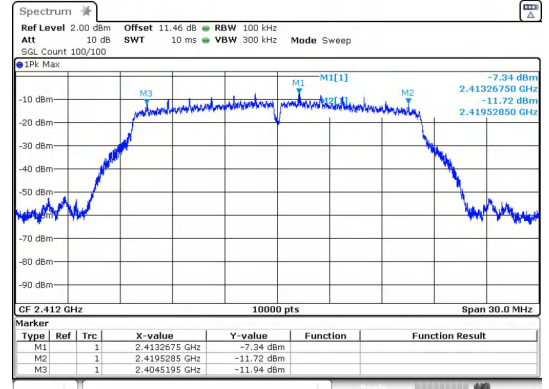
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	8.060	≥0.5	PASS
	6		2437	8.070		PASS
	11		2462	8.030		PASS
IEEE 802.11g	1		2412	15.01		PASS
	6		2437	15.64		PASS
	11		2462	15.08		PASS
IEEE 802.11n_20	1		2412	14.98		PASS
	6		2437	16.76		PASS
	11		2462	15.06		PASS

Test Graphs

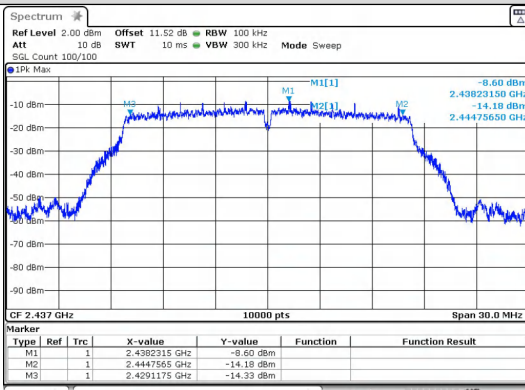




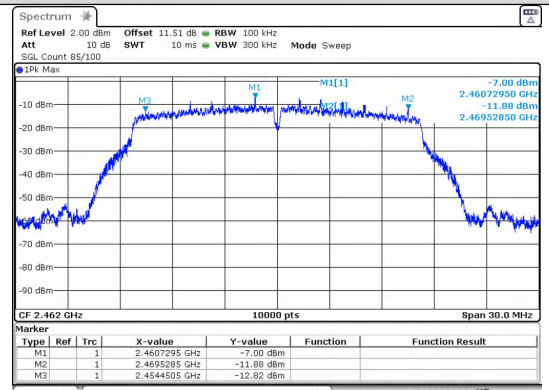
IEEE 802.11b_Channel 11_20MHz_Antenna 0



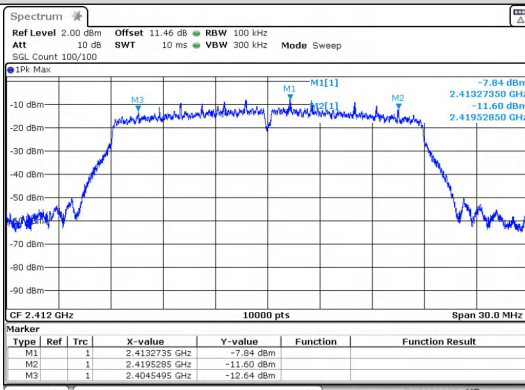
IEEE 802.11g_Channel 1_20MHz_Antenna 0



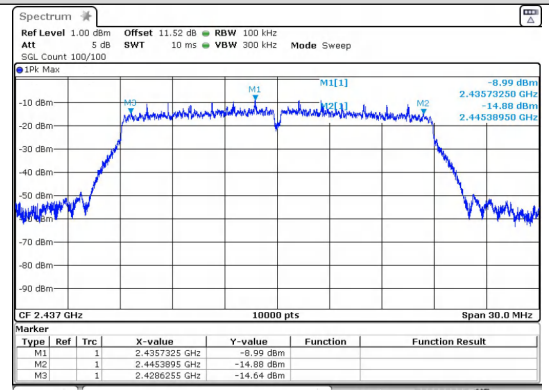
IEEE 802.11g_Channel 6_20MHz_Antenna 0



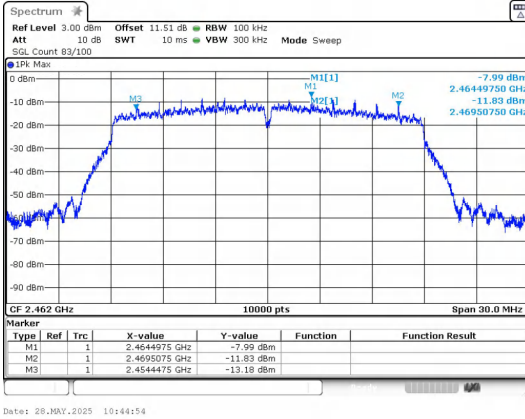
IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0



IEEE 802.11n_Channel 6_20MHz_Antenna 0



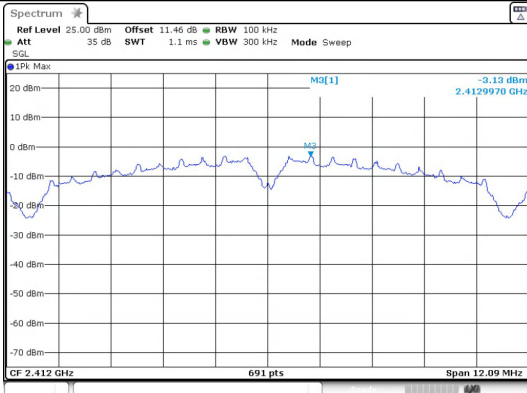
IEEE 802.11n_Channel 11_20MHz_Antenna 0

Conducted Out Of Band Emission

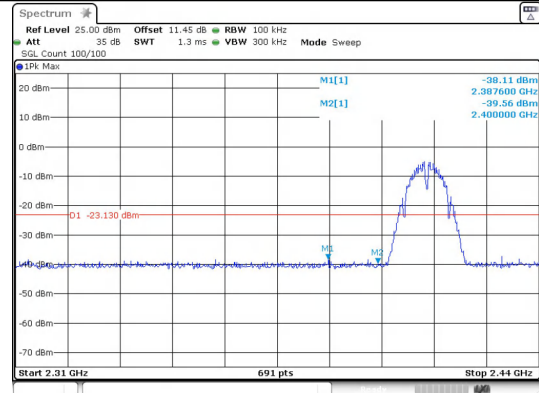
Test Result

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2387.60	-38.111	-23.13	-14.981	PASS
			2400.00	-39.560	-23.13	-16.430	PASS
			6938.80	-44.651	-23.13	-21.521	PASS
	6		6838.07	-44.499	-23.73	-20.769	PASS
	11		2483.50	-39.990	-22.96	-17.030	PASS
			6938.78	-43.799	-22.96	-20.839	PASS
IEEE 802.11g	1		2377.63	-38.153	-27.53	-10.623	PASS
			2400.00	-40.430	-27.53	-12.900	PASS
			22052.3	-44.265	-27.53	-16.735	PASS
	6		6895.50	-44.402	-28.62	-15.782	PASS
	11		2483.50	-40.050	-27.02	-13.030	PASS
			5947.47	-44.317	-27.02	-17.297	PASS
IEEE 802.11n_20	1		2369.92	-37.762	-27.93	-9.832	PASS
			2400.00	-40.970	-27.93	-13.040	PASS
			6942.10	-44.469	-27.93	-16.539	PASS
	6		21972.4	-44.894	-29.22	-15.674	PASS
	11		2483.50	-39.460	-27.4	-12.060	PASS
			6934.62	-44.767	-27.4	-17.367	PASS

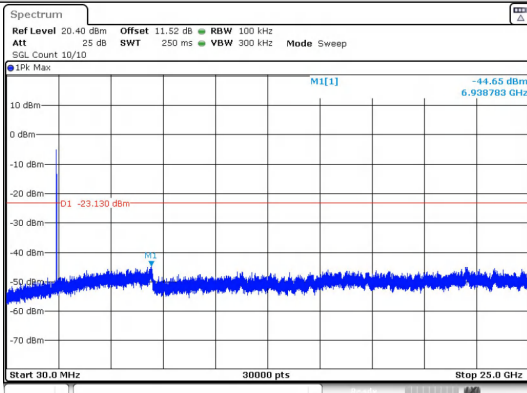
Test Graphs



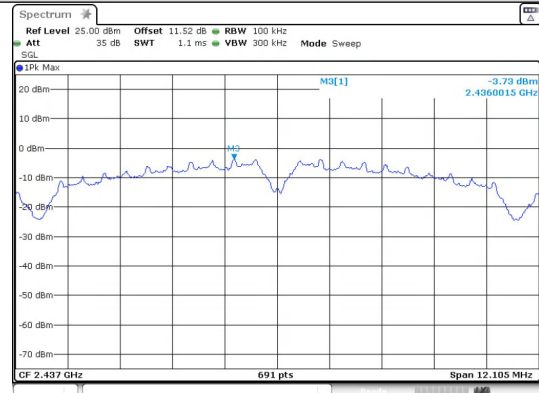
In-Band Reference Level
IEEE 802.11b_Channel 1_20MHz_Antenna 0



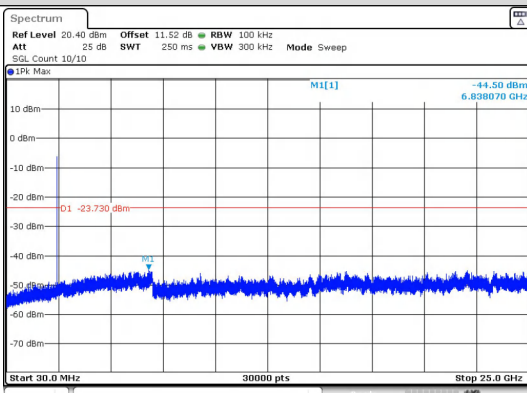
Out Of Band Emission
IEEE 802.11b_Channel 1_20MHz_Antenna 0



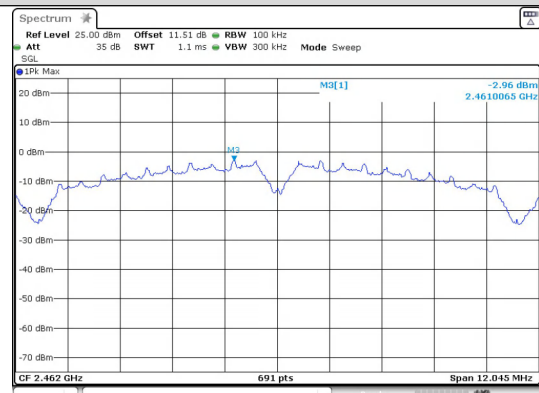
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 1_20MHz_Antenna 0



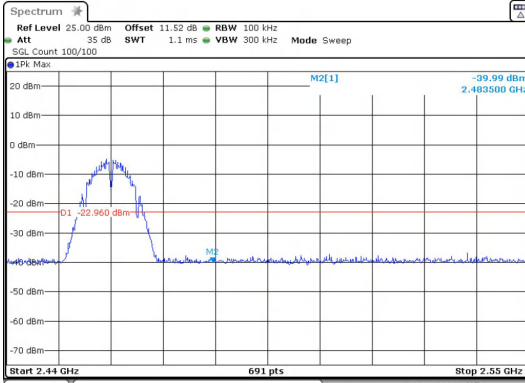
In-Band Reference Level
IEEE 802.11b_Channel 6_20MHz_Antenna 0



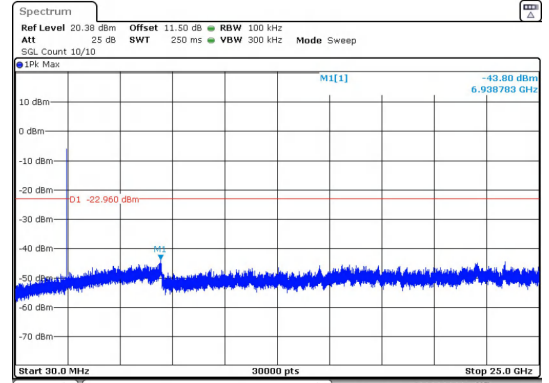
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 6_20MHz_Antenna 0



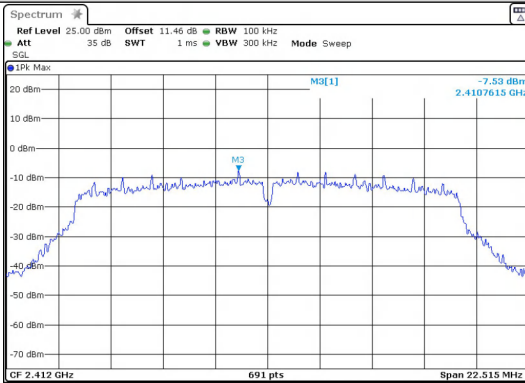
In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0



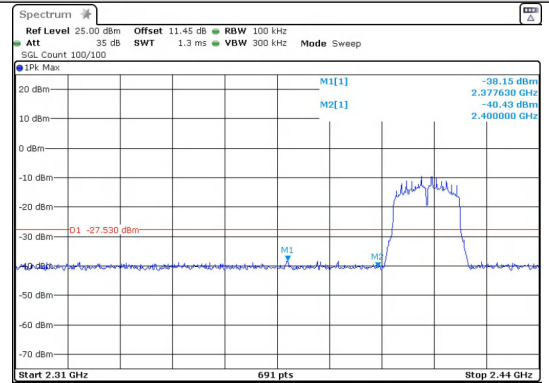
Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0



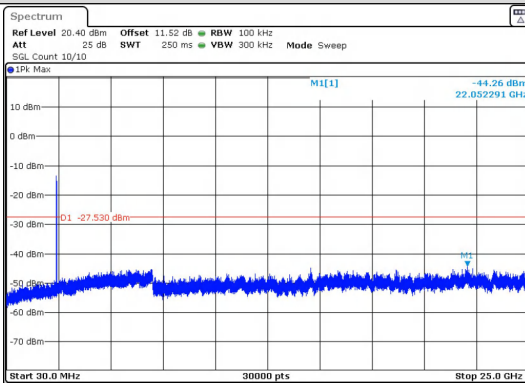
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 0



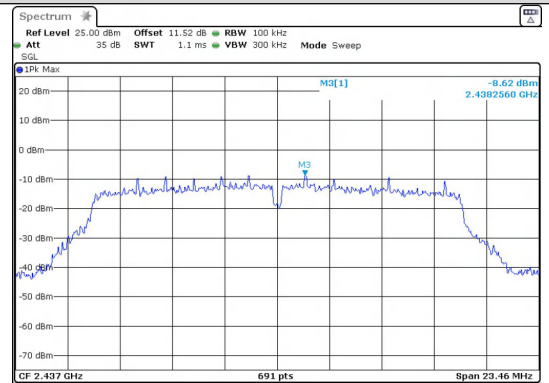
In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0



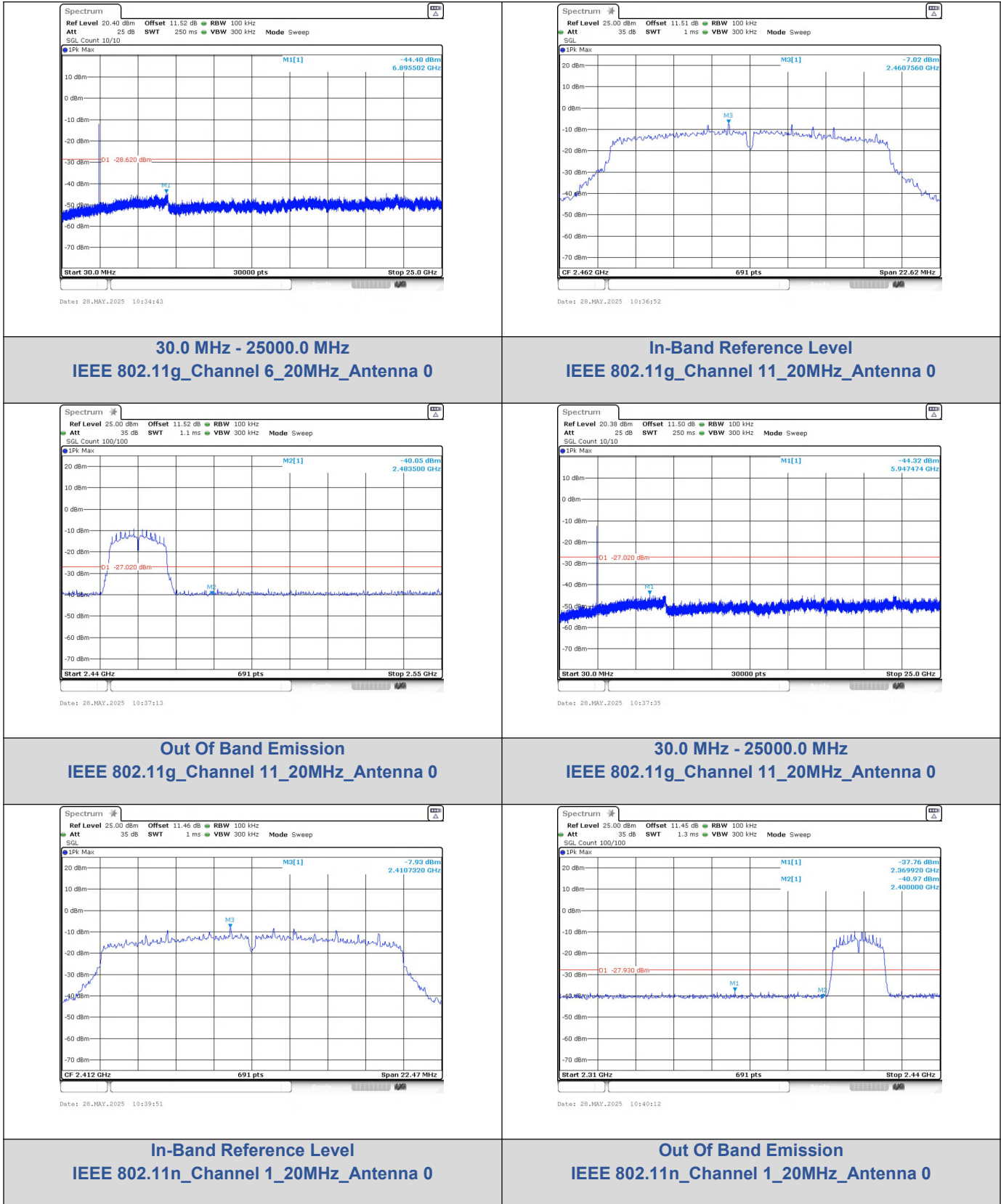
Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0

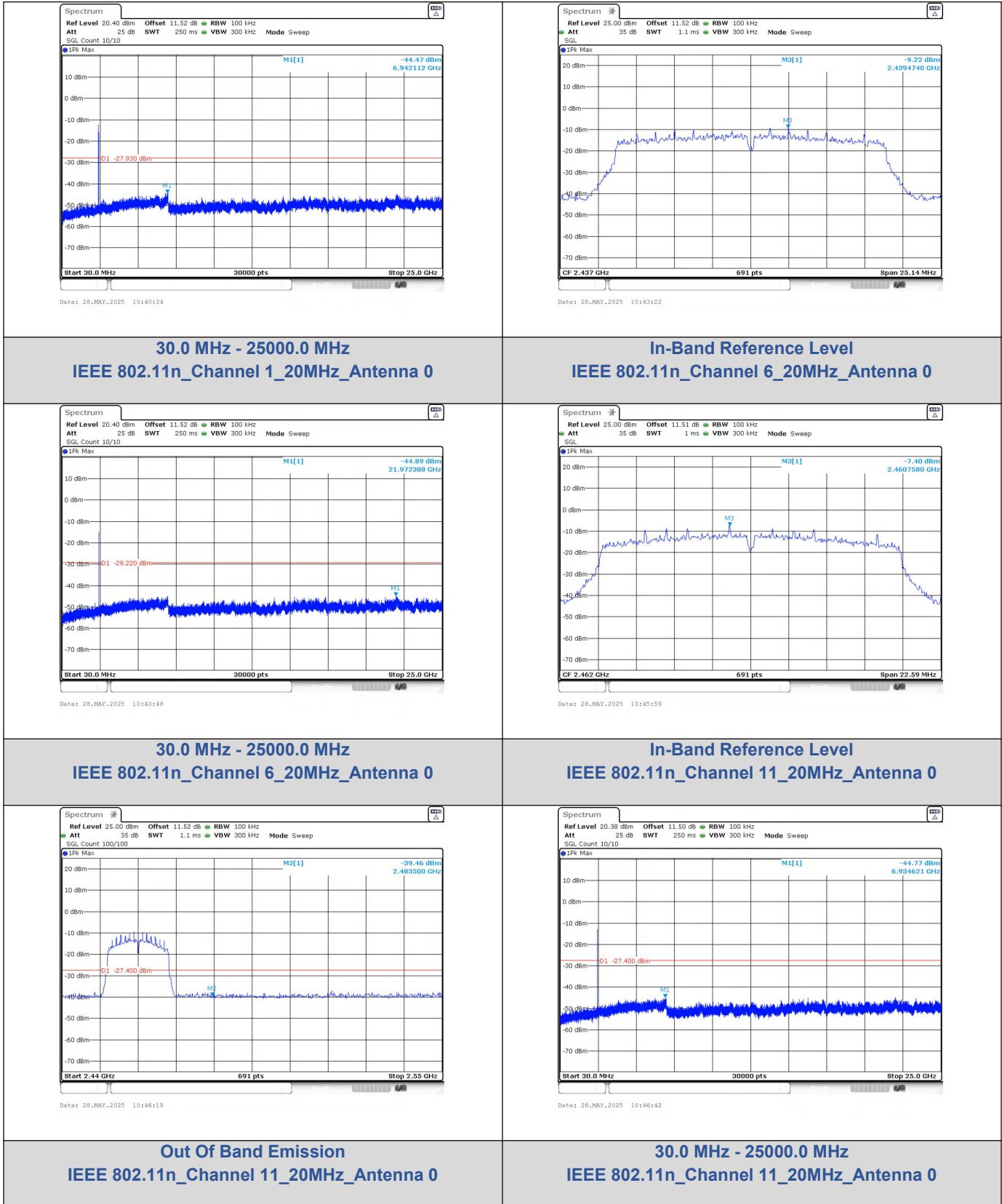


30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 1_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0





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