

Appendix Report

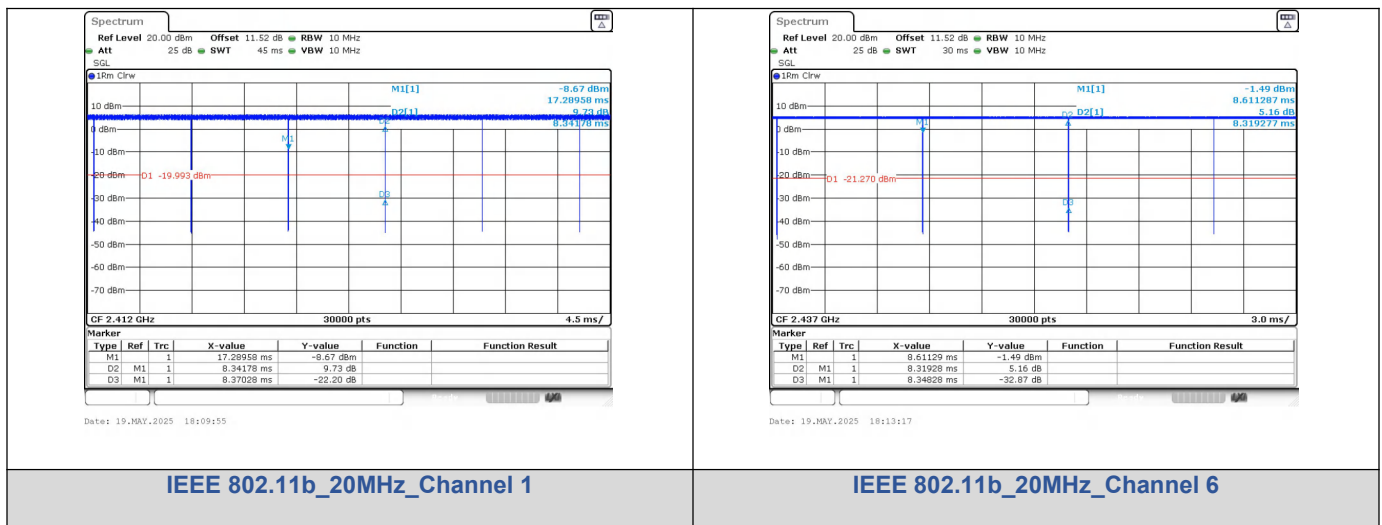
Project No.:	CISR250425275
Test Engineer:	James Wang
Supervised by:	Rory Huang

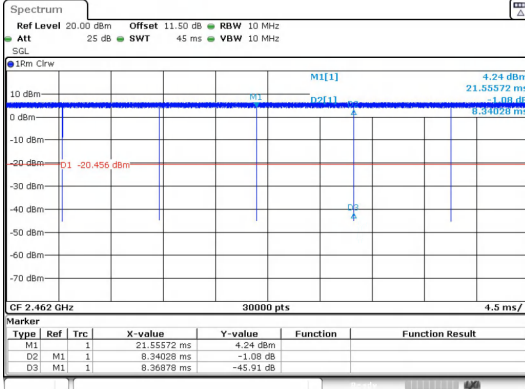
Duty Cycle

Test Result

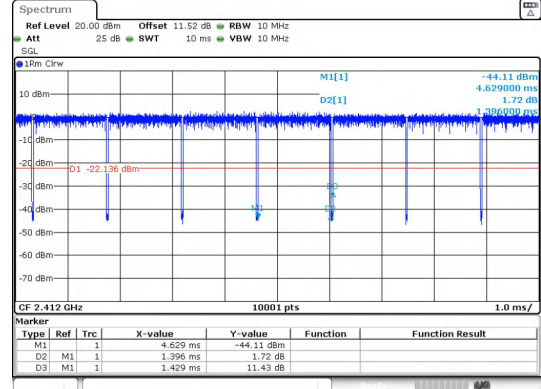
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11b	1	1	1	8.342	8.370	99.66	0.9966	0.0148	0.1199
		6		8.319	8.348	99.65	0.9965	0.0152	0.1202
		11		8.340	8.369	99.66	0.9966	0.0148	0.1199
IEEE 802.11g		1		1.396	1.429	97.69	0.9769	0.1015	0.7163
		6		1.396	1.430	97.62	0.9762	0.1046	0.7163
		11		1.396	1.430	97.62	0.9762	0.1046	0.7163
IEEE 802.11n_20	MCS 0	1		1.293	1.327	97.44	0.9744	0.1126	0.7734
		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





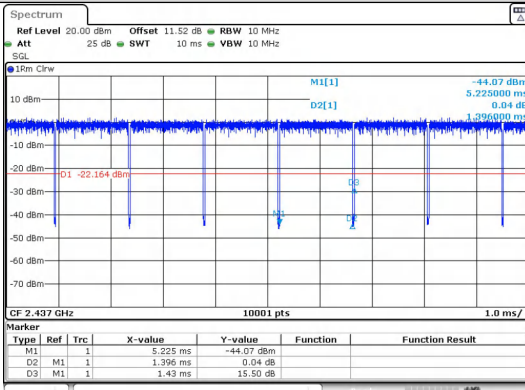
Date: 19.MAY.2025 18:18:34



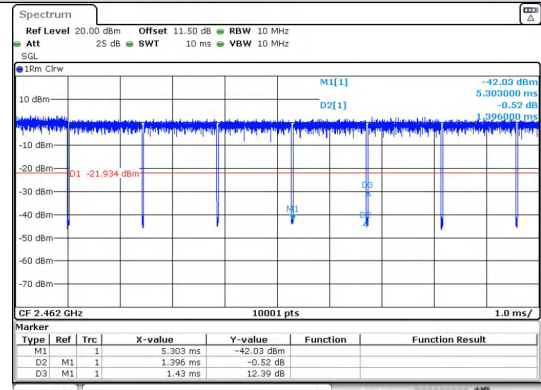
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IEEE 802.11b_20MHz_Channel 11

IEEE 802.11g_20MHz_Channel 1



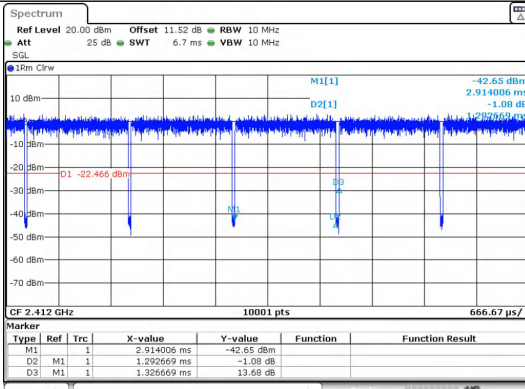
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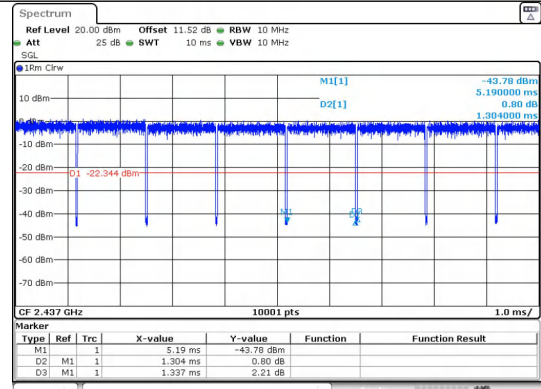
Date: 19.MAY.2025 18:26:54

IEEE 802.11g_20MHz_Channel 6

IEEE 802.11g_20MHz_Channel 11



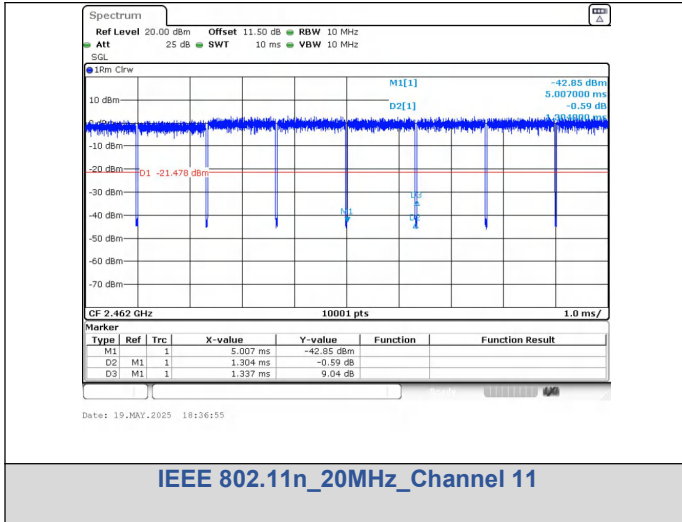
Date: 19.MAY.2025 18:31:27



Date: 19.MAY.2025 18:34:14

IEEE 802.11n_20MHz_Channel 1

IEEE 802.11n_20MHz_Channel 6

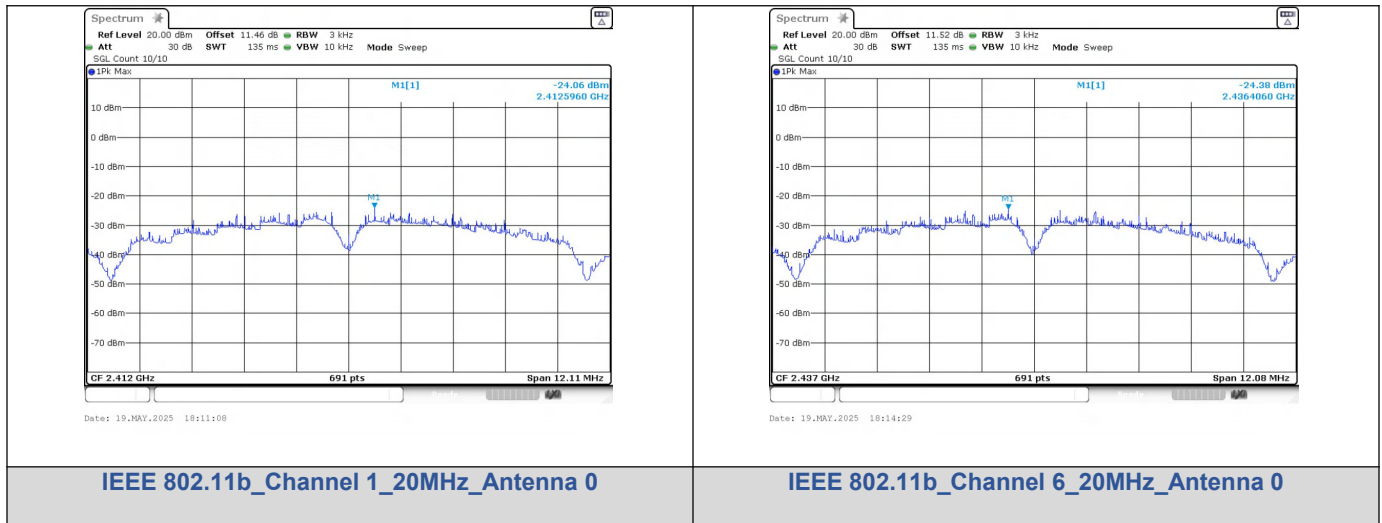


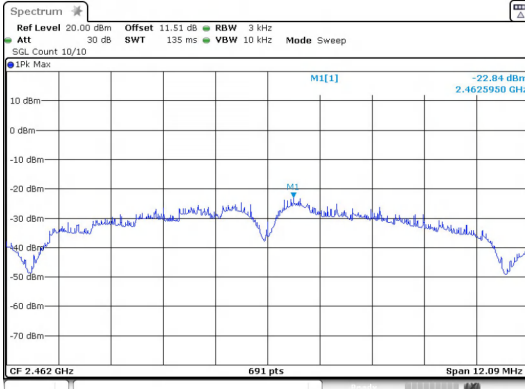
Power Spectral Density

Test Result

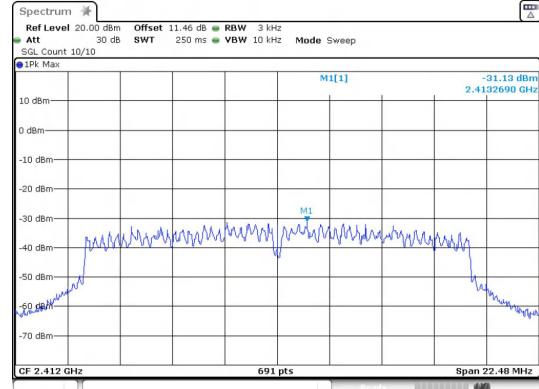
Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-24.060	≤8	PASS
	6	-24.380		PASS
	11	-22.840		PASS
IEEE 802.11g	1	-31.130		PASS
	6	-30.340		PASS
	11	-29.290		PASS
IEEE 802.11n_20	1	-31.590		PASS
	6	-31.810		PASS
	11	-29.280		PASS

Test Graphs

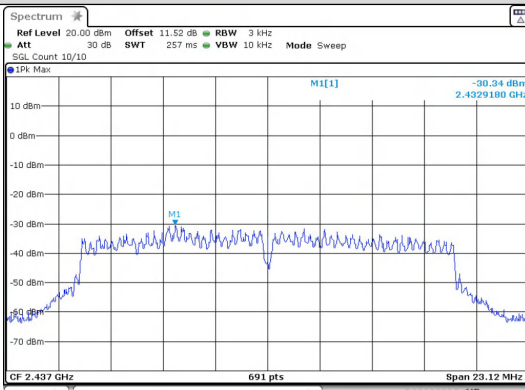




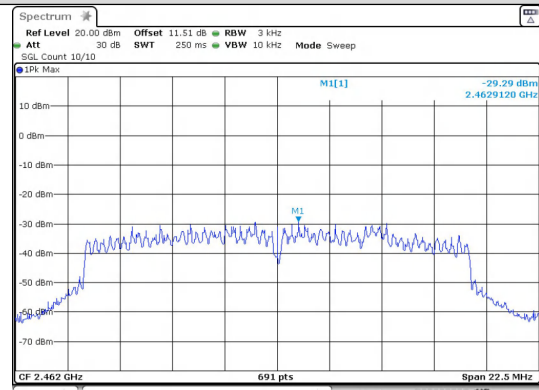
IEEE 802.11b_Channel 11_20MHz_Antenna 0



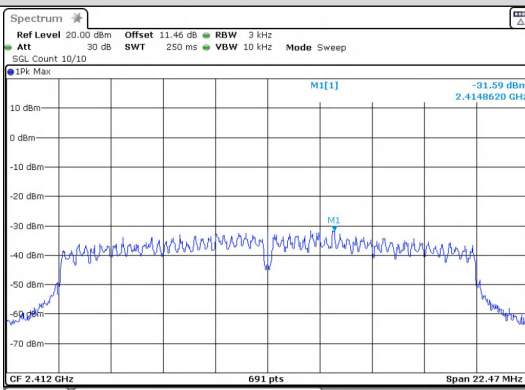
IEEE 802.11g_Channel 1_20MHz_Antenna 0



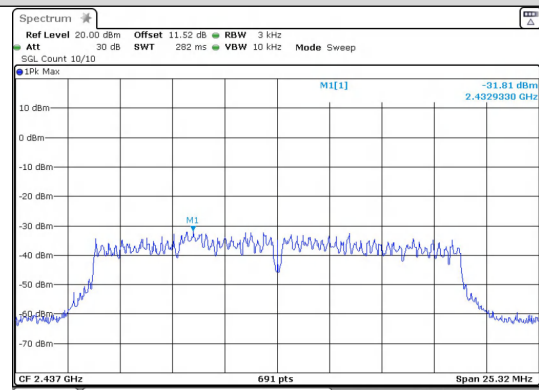
IEEE 802.11g_Channel 6_20MHz_Antenna 0



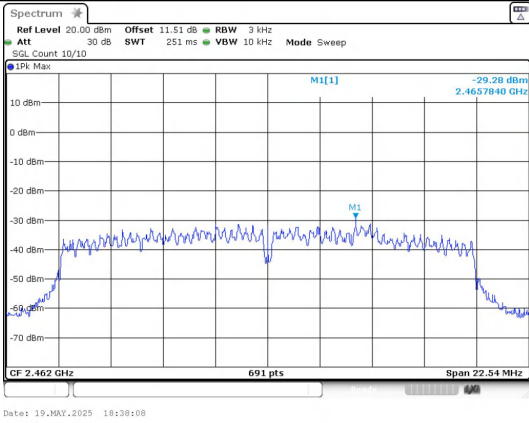
IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0



IEEE 802.11n_Channel 6_20MHz_Antenna 0



IEEE 802.11n_Channel 11_20MHz_Antenna 0

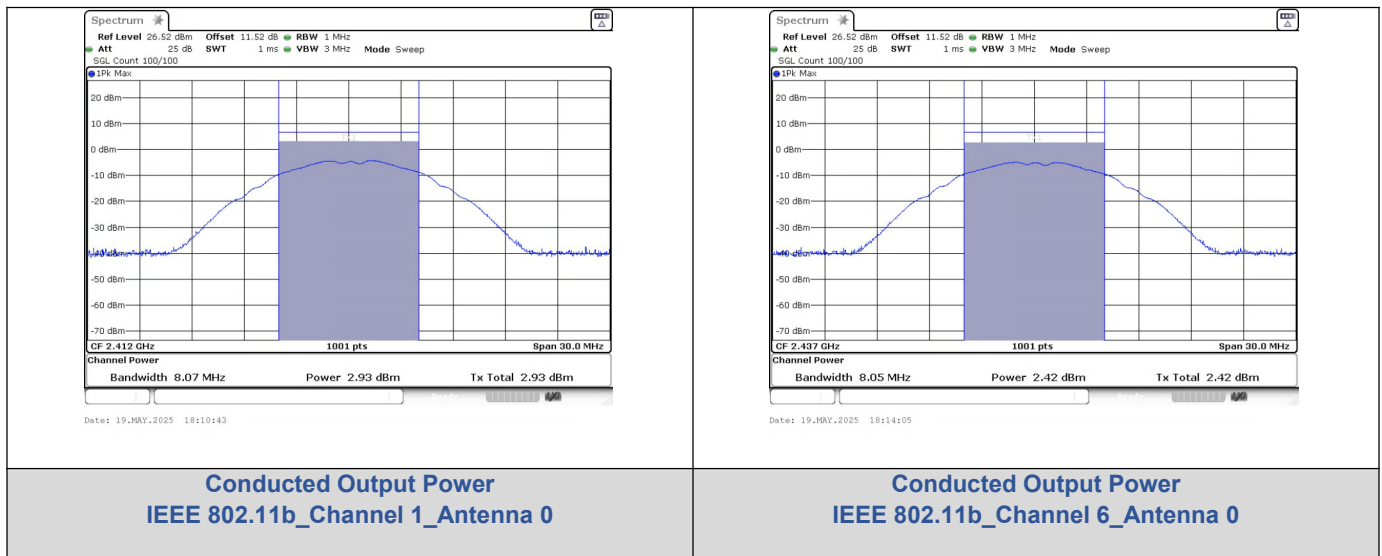
Conducted Output Power

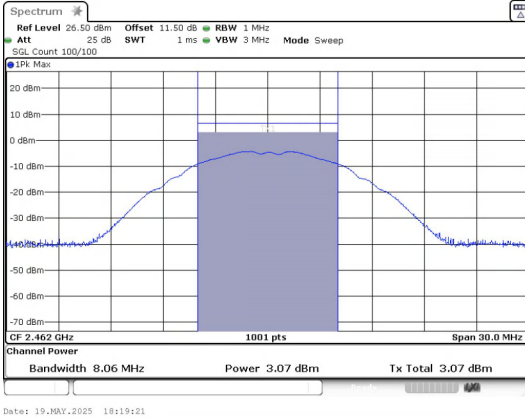
Test Result

Conducted Output Power

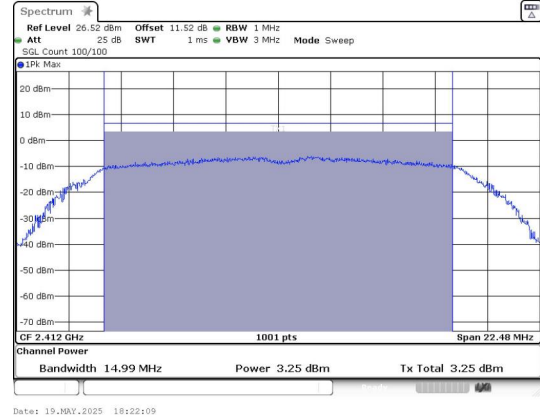
Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	2.93	≤30	PASS
	6	2.42	≤30	PASS
	11	3.07	≤30	PASS
IEEE 802.11g	1	3.25	≤30	PASS
	6	2.51	≤30	PASS
	11	3.61	≤30	PASS
IEEE 802.11n_20	1	2.49	≤30	PASS
	6	2.21	≤30	PASS
	11	3.08	≤30	PASS

Test Graphs

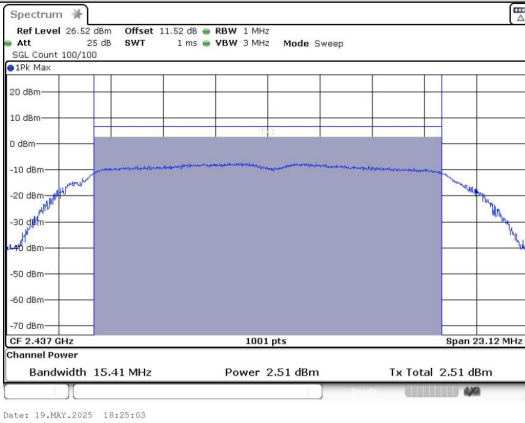




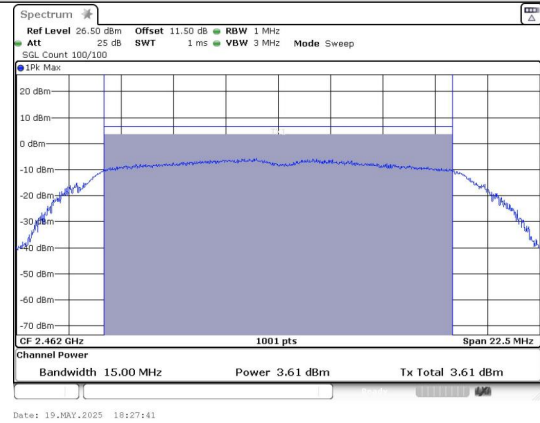
**Conducted Output Power
IEEE 802.11b_Channel 11_Antenna 0**



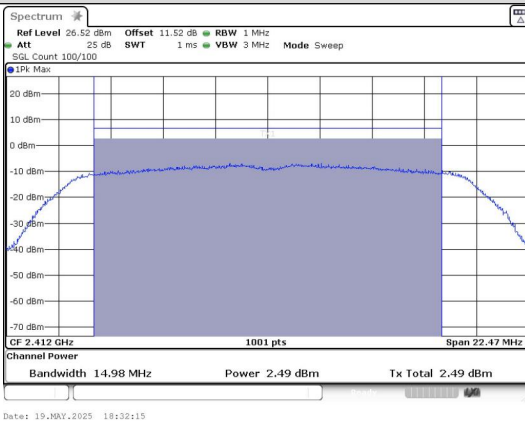
**Conducted Output Power
IEEE 802.11g_Channel 1_Antenna 0**



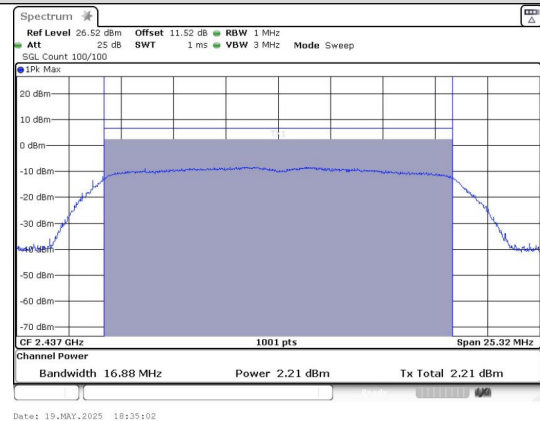
**Conducted Output Power
IEEE 802.11g_Channel 6_Antenna 0**



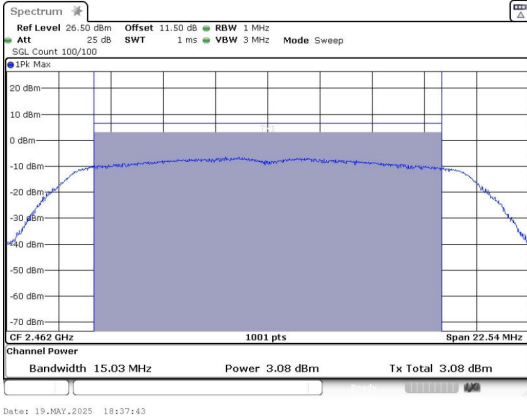
**Conducted Output Power
IEEE 802.11g_Channel 11_Antenna 0**



**Conducted Output Power
IEEE 802.11n_20_Channel 1_Antenna 0**



**Conducted Output Power
IEEE 802.11n_20_Channel 6_Antenna 0**



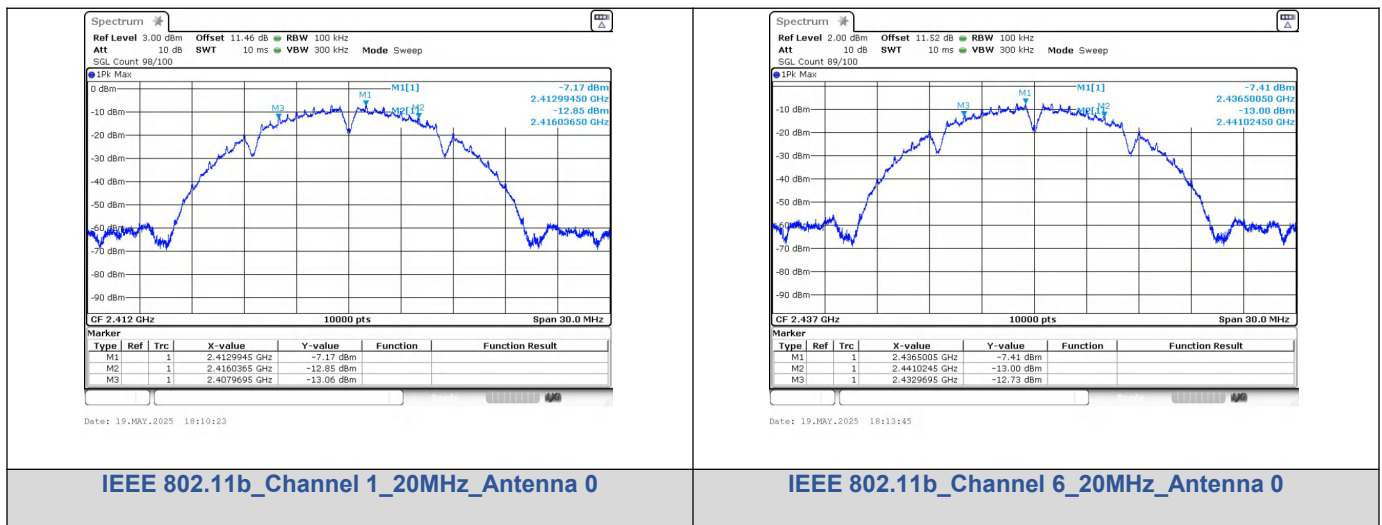
Conducted Output Power
IEEE 802.11n_20_Channel 11_Antenna 0

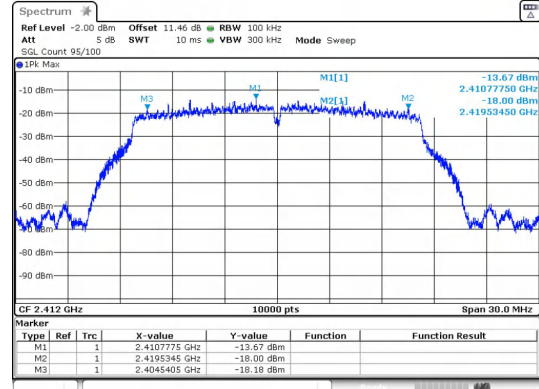
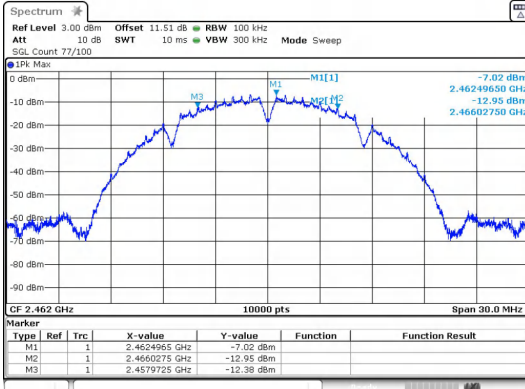
6dB Bandwidth

Test Result

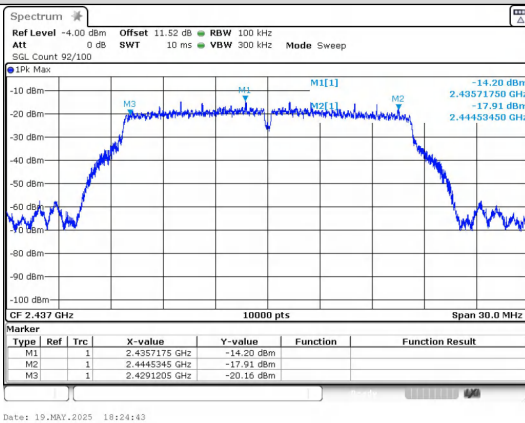
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	8.070	≥0.5	PASS
	6		2437	8.050		PASS
	11		2462	8.060		PASS
IEEE 802.11g	1		2412	14.99		PASS
	6		2437	15.41		PASS
	11		2462	15.00		PASS
IEEE 802.11n_20	1		2412	14.98		PASS
	6		2437	16.88		PASS
	11		2462	15.03		PASS

Test Graphs

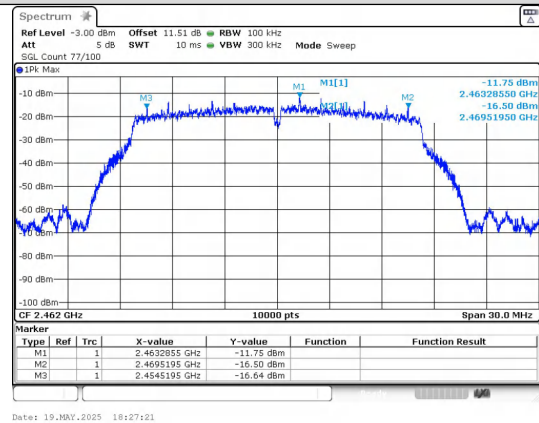




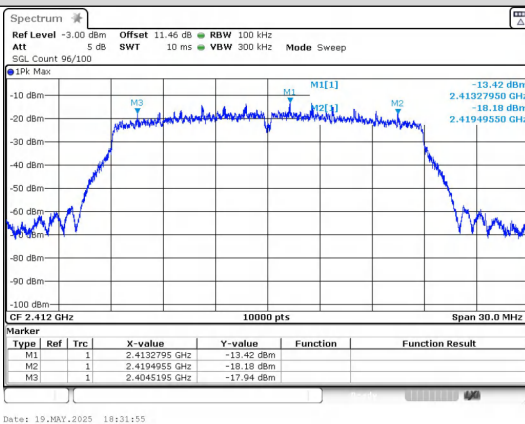
IEEE 802.11b_Channel 11_20MHz_Antenna 0



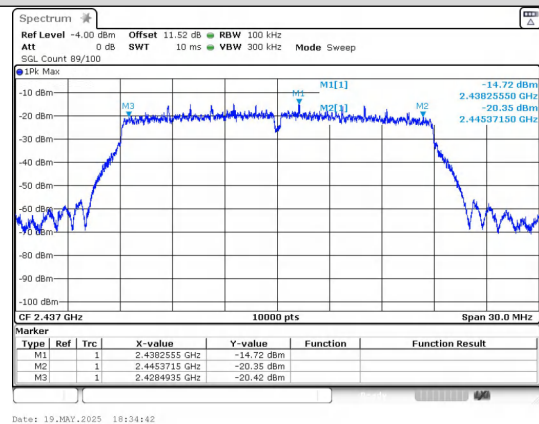
IEEE 802.11g_Channel 1_20MHz_Antenna 0



IEEE 802.11g_Channel 6_20MHz_Antenna 0

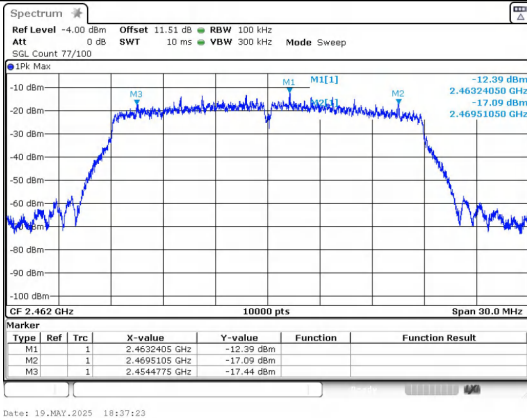


IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0

IEEE 802.11n_Channel 6_20MHz_Antenna 0



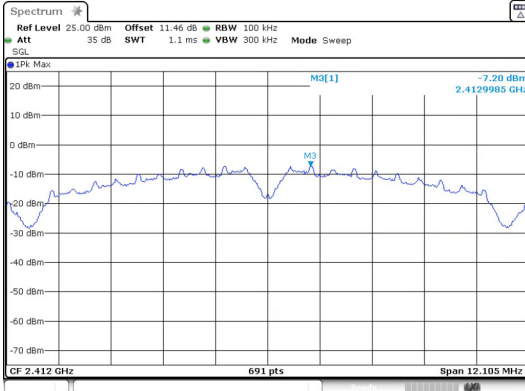
IEEE 802.11n_Channel 11_20MHz_Antenna 0

Conducted Out Of Band Emission

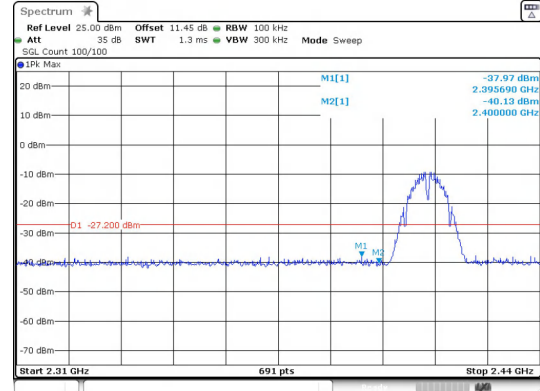
Test Result

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2395.69	-37.973	-27.2	-10.773	PASS
			2400.00	-40.130	-27.2	-12.930	PASS
			6967.10	-44.739	-27.2	-17.539	PASS
	6		22005.7	-44.766	-27.55	-17.216	PASS
	11		2483.50	-39.230	-27.12	-12.110	PASS
			6948.77	-44.383	-27.12	-17.263	PASS
IEEE 802.11g	1		2343.39	-37.457	-32.47	-4.987	PASS
			2400.00	-39.550	-32.47	-7.080	PASS
			6908.80	-44.078	-32.47	-11.608	PASS
	6		6944.61	-44.589	-33.89	-10.699	PASS
	11		2483.50	-39.350	-31.62	-7.730	PASS
			22079.8	-43.144	-31.62	-11.524	PASS
IEEE 802.11n_20	1		2382.71	-38.352	-33.36	-4.992	PASS
			2400.00	-40.030	-33.36	-6.670	PASS
			22066.4	-44.405	-33.36	-11.045	PASS
	6		6293.72	-44.206	-33.95	-10.256	PASS
	11		2483.50	-39.190	-32.57	-6.620	PASS
			6303.71	-44.148	-32.57	-11.578	PASS

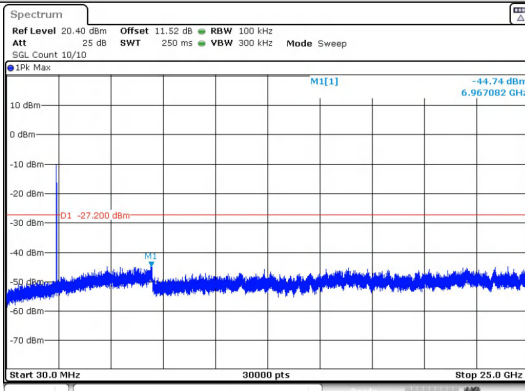
Test Graphs



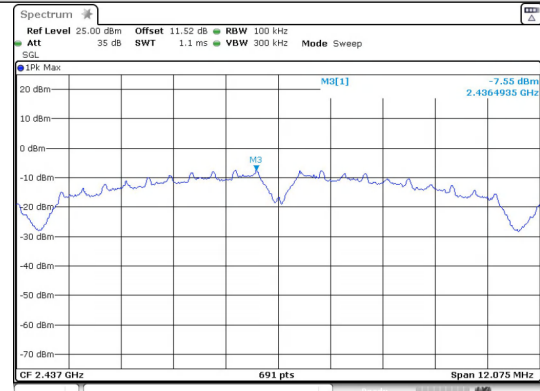
In-Band Reference Level
IEEE 802.11b_Channel 1_20MHz_Antenna 0



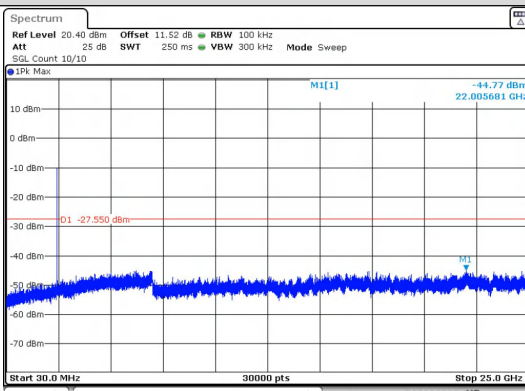
Out Of Band Emission
IEEE 802.11b_Channel 1_20MHz_Antenna 0



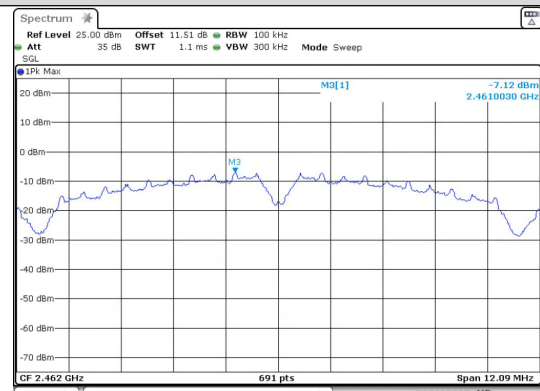
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 1_20MHz_Antenna 0



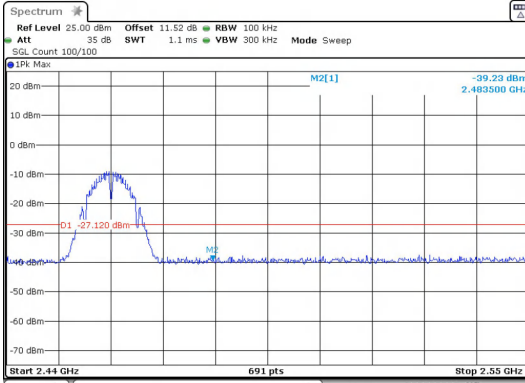
In-Band Reference Level
IEEE 802.11b_Channel 6_20MHz_Antenna 0



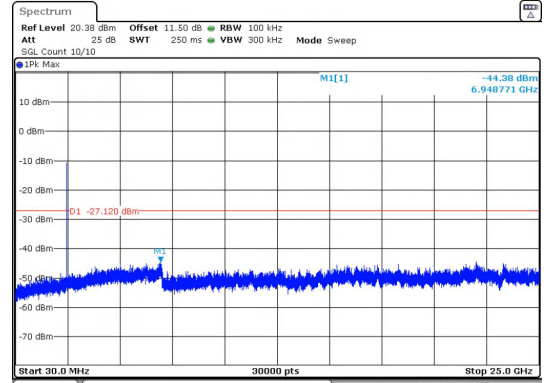
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 6_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0



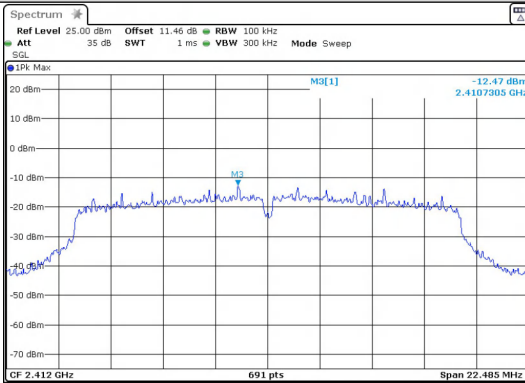
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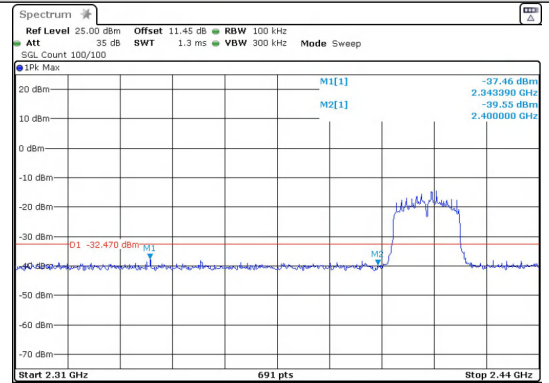
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Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0

30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 0



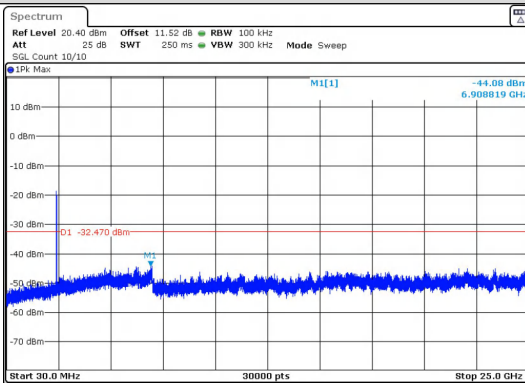
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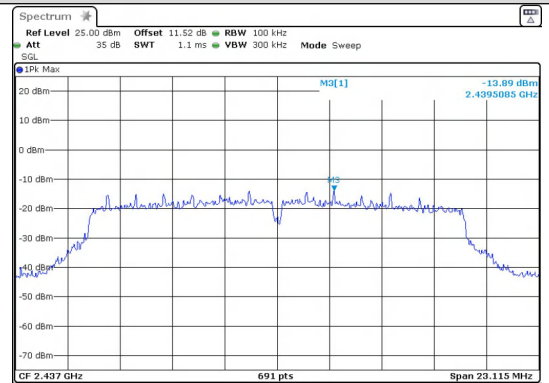
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In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0

Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



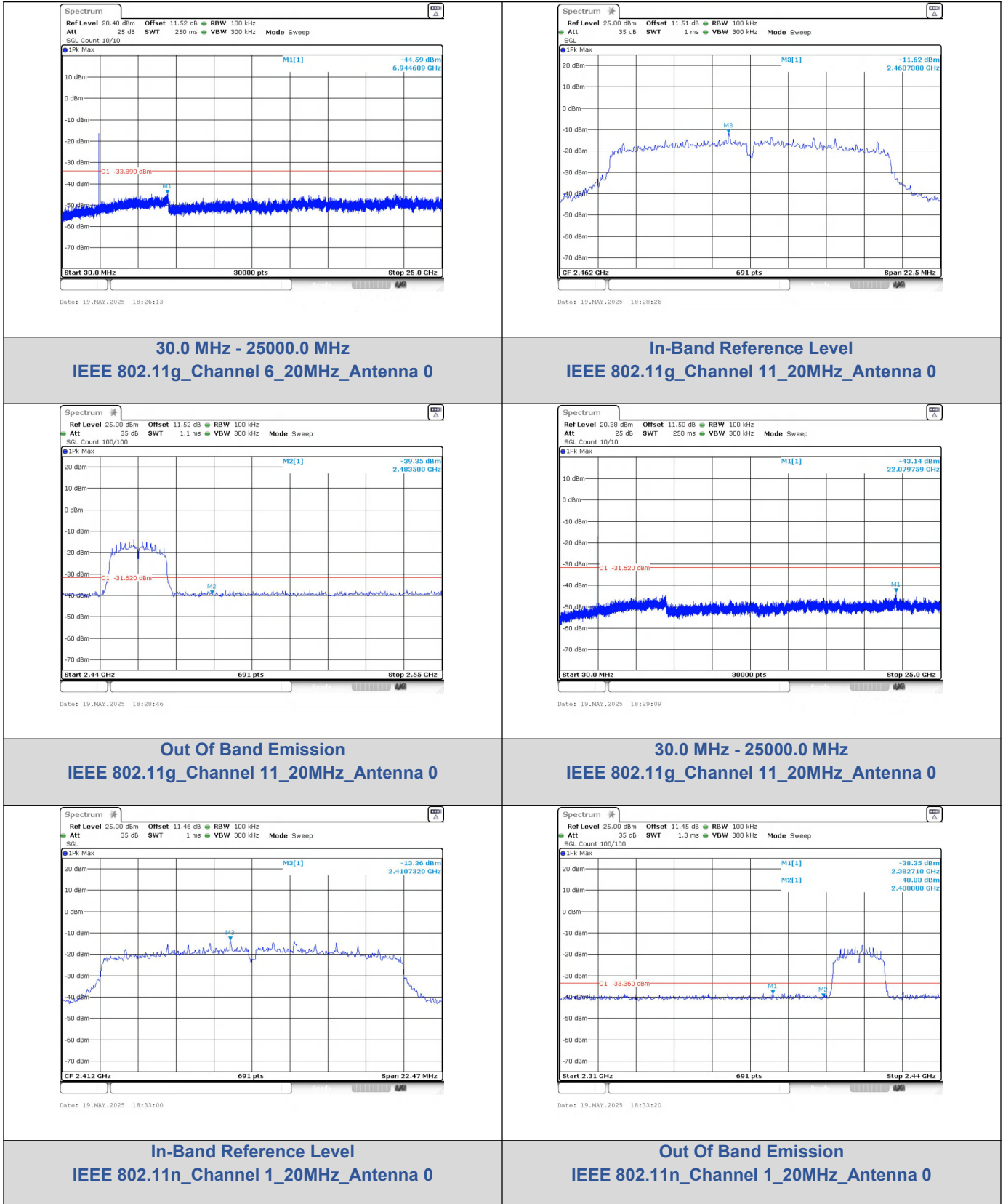
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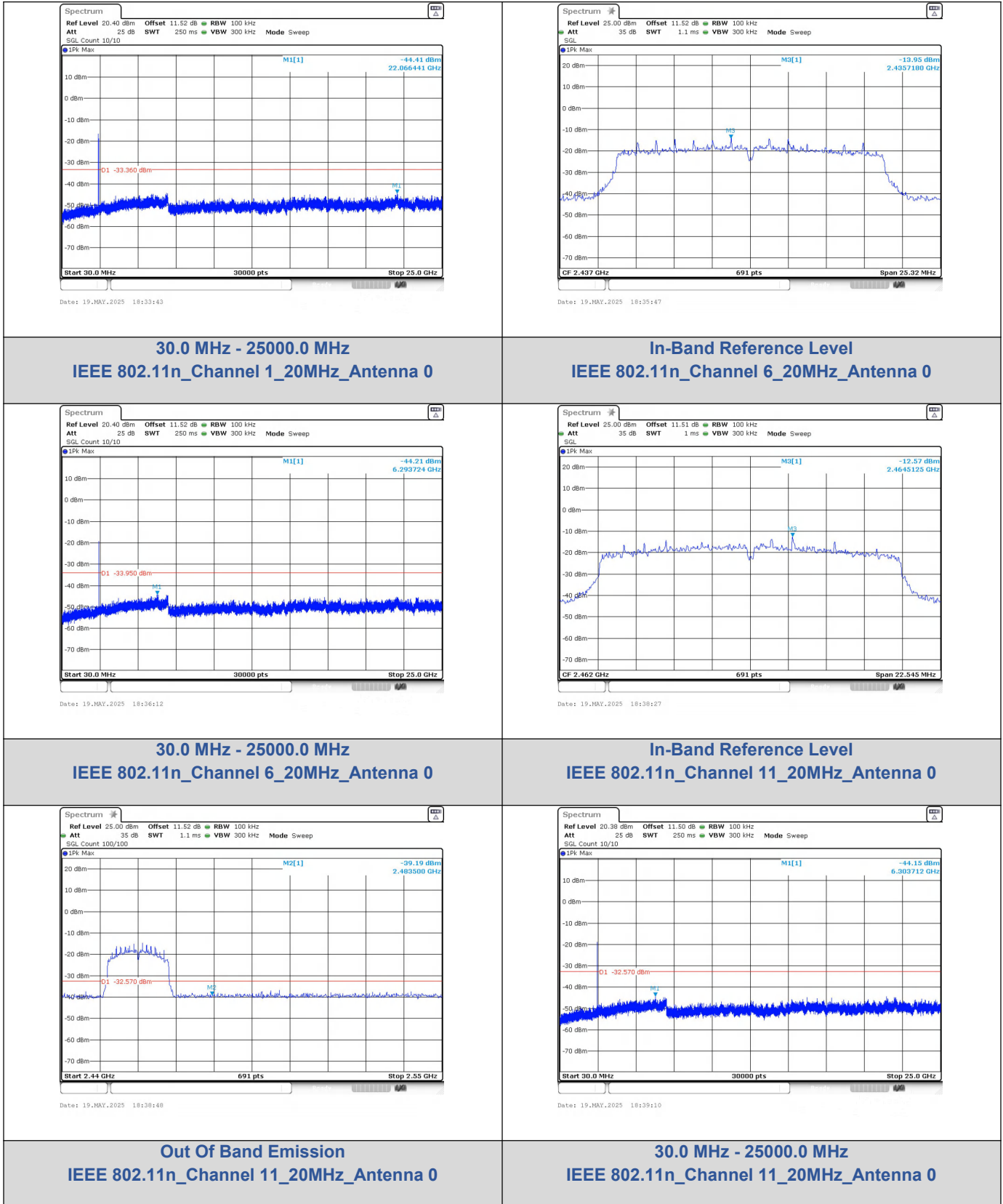


Date: 19.MAY.2025 18:25:47

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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