

Appendix Report

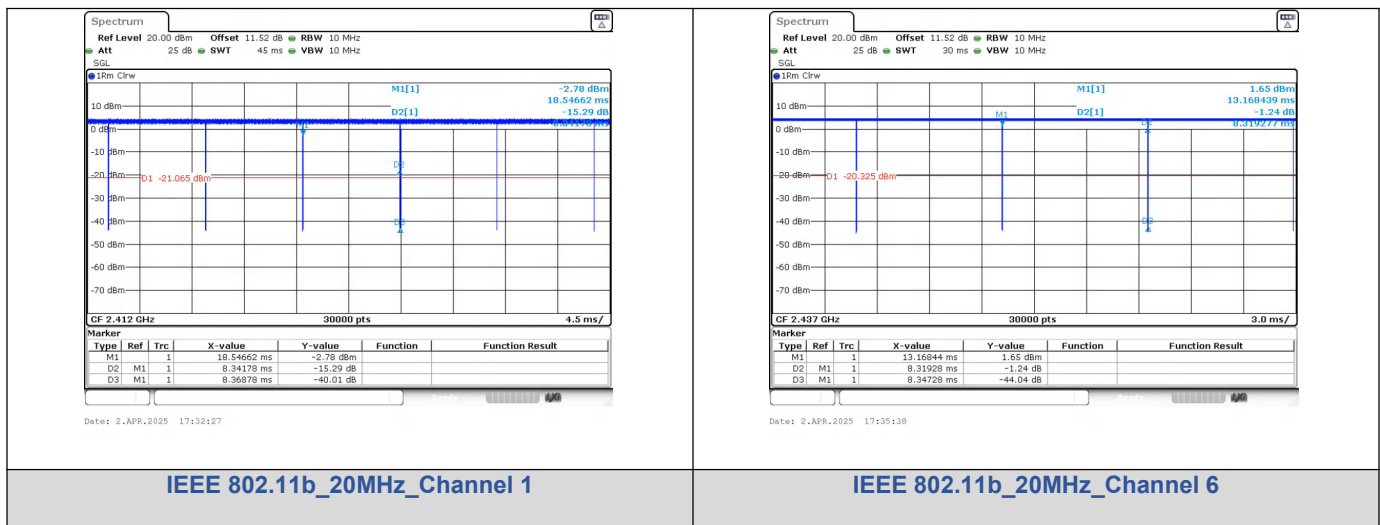
Project No.:	CISR250401006
Test Engineer:	James Wang
Supervised by:	Rory Huang

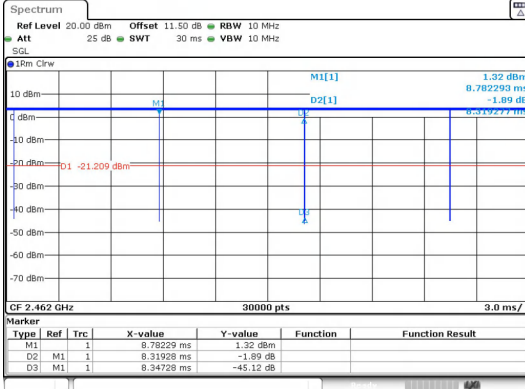
Duty Cycle

Test Result

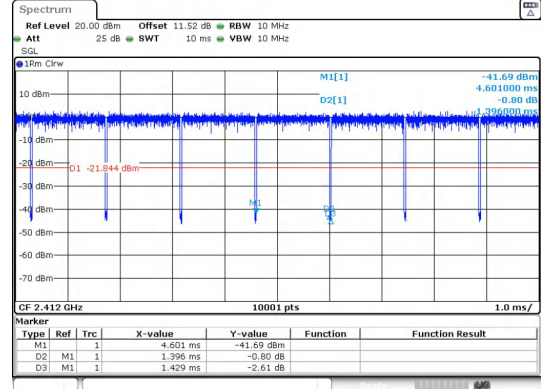
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11b	1	1	1	8.342	8.369	99.68	0.9968	0.0139	0.1199
		6		8.319	8.347	99.66	0.9966	0.0148	0.1202
		11		8.319	8.347	99.66	0.9966	0.0148	0.1202
IEEE 802.11g	1	1		1.396	1.429	97.69	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		1.292	1.326	97.44	0.9744	0.1126	0.7740
		6		1.293	1.327	97.44	0.9744	0.1126	0.7734
		11		1.304	1.337	97.53	0.9753	0.1086	0.7669

Test Graphs





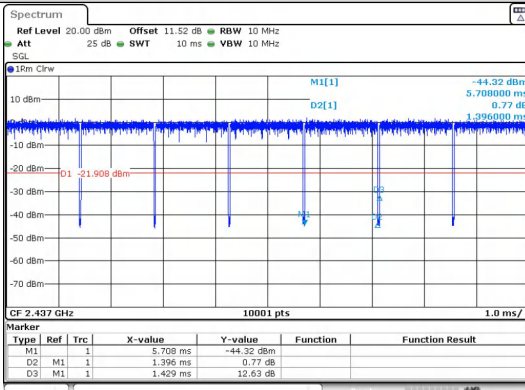
Date: 2.APR.2025 17:38:19



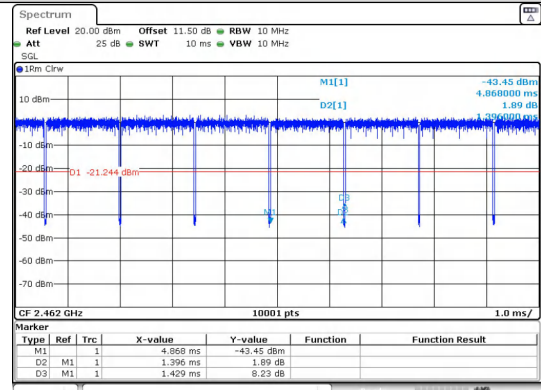
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IEEE 802.11b_20MHz_Channel 11

IEEE 802.11g_20MHz_Channel 1



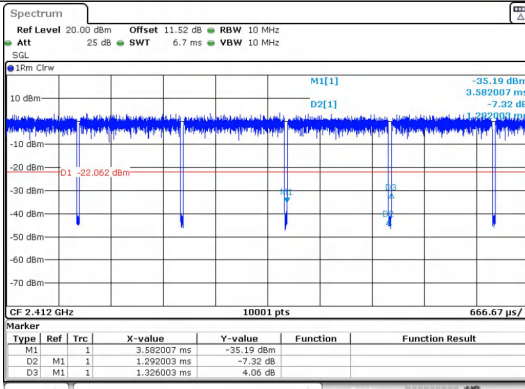
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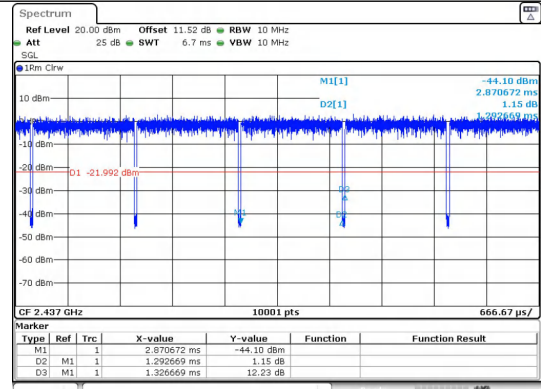
Date: 2.APR.2025 18:06:07

IEEE 802.11g_20MHz_Channel 6

IEEE 802.11g_20MHz_Channel 11



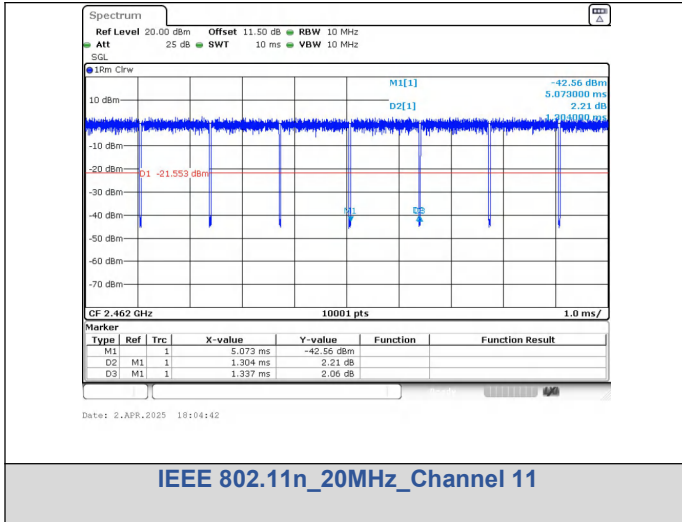
Date: 2.APR.2025 18:11:38



Date: 2.APR.2025 18:10:49

IEEE 802.11n_20MHz_Channel 1

IEEE 802.11n_20MHz_Channel 6

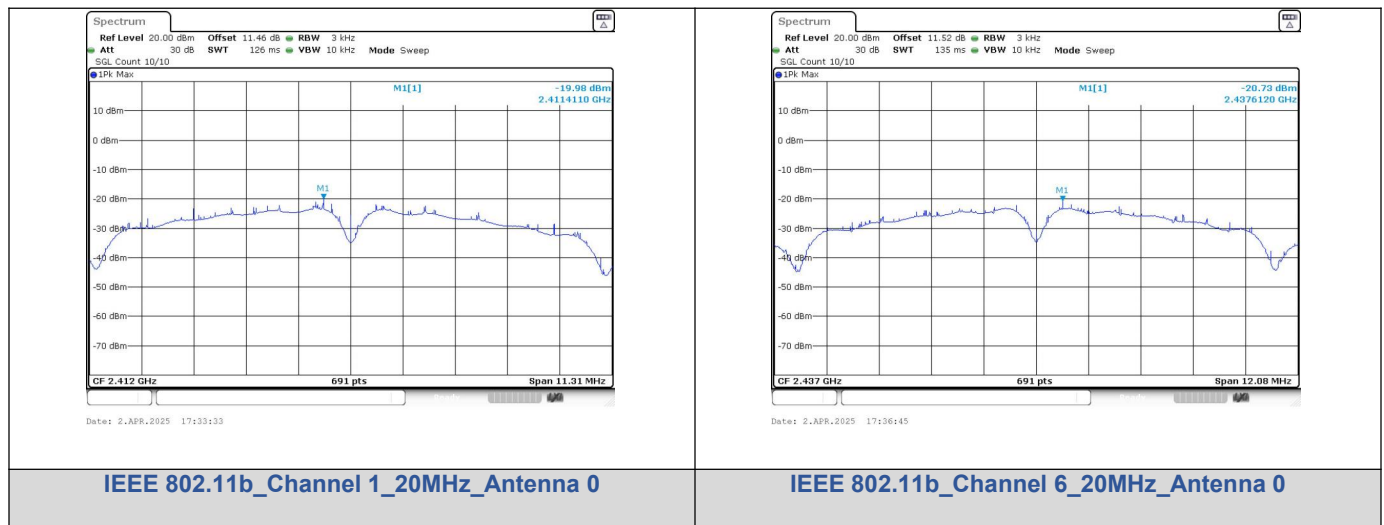


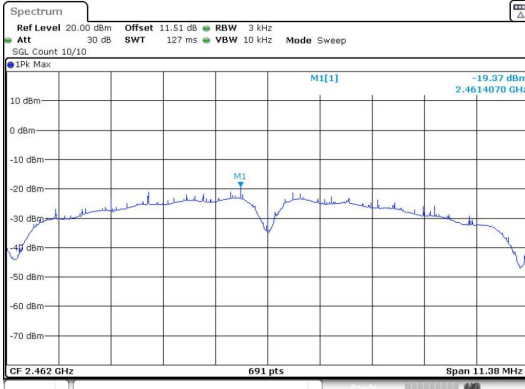
Power Spectral Density

Test Result

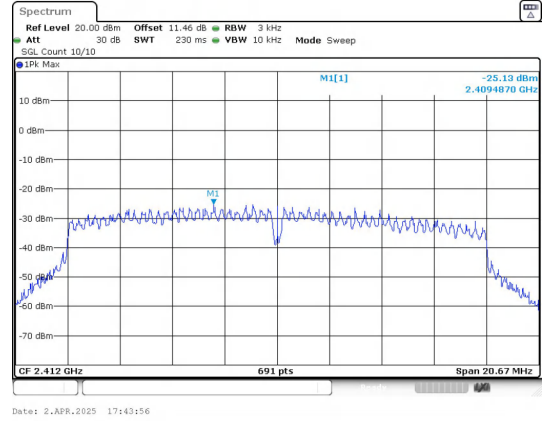
Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-19.980	≤8	PASS
	6	-20.730		PASS
	11	-19.370		PASS
IEEE 802.11g	1	-25.130		PASS
	6	-25.800		PASS
	11	-24.650		PASS
IEEE 802.11n_20	1	-23.720		PASS
	6	-25.150		PASS
	11	-22.730		PASS

Test Graphs

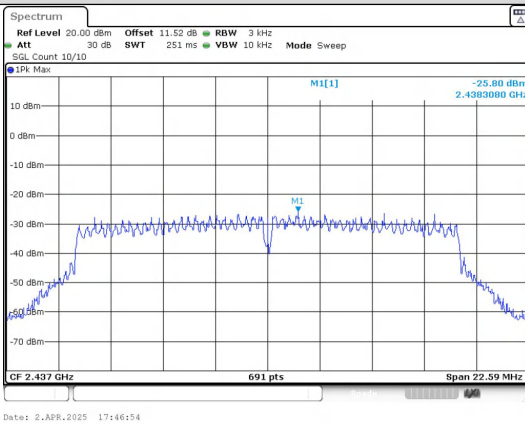




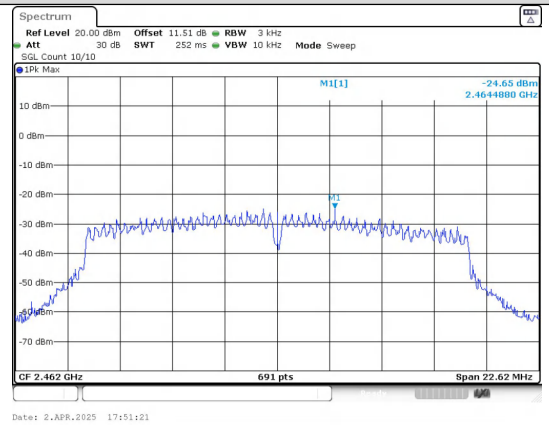
IEEE 802.11b_Channel 11_20MHz_Antenna 0



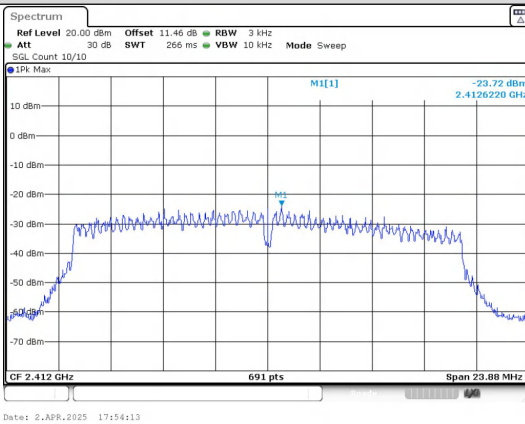
IEEE 802.11g_Channel 1_20MHz_Antenna 0



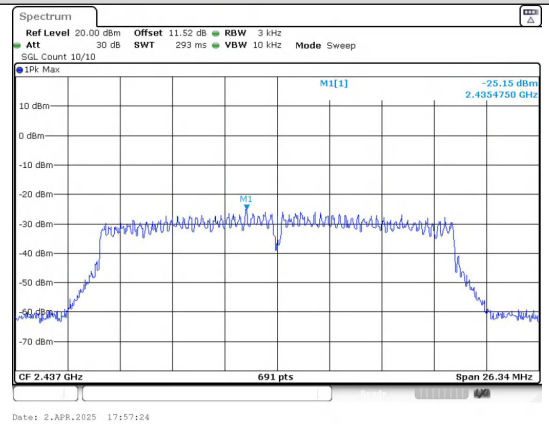
IEEE 802.11g_Channel 6_20MHz_Antenna 0



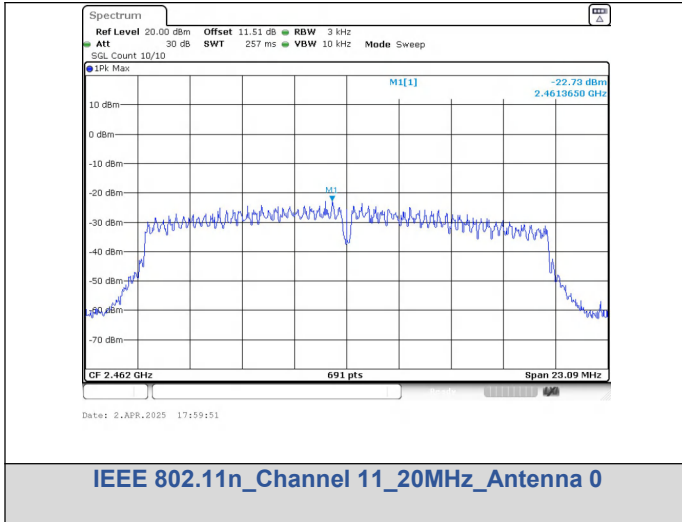
IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0



IEEE 802.11n_Channel 6_20MHz_Antenna 0



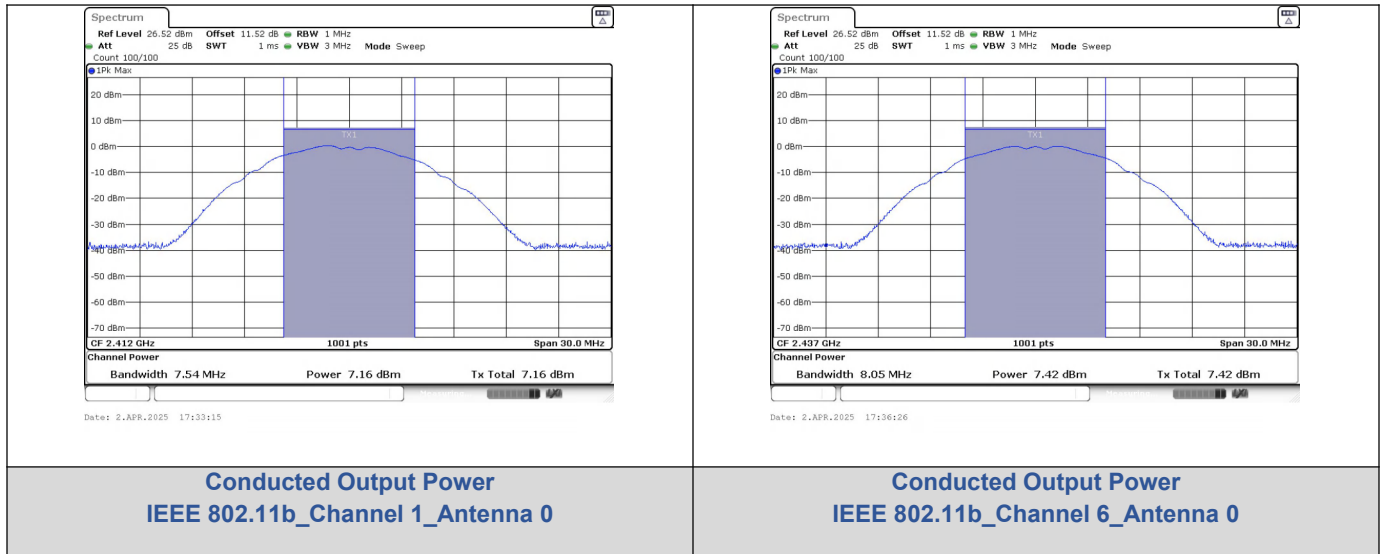
Conducted Peak Output Power

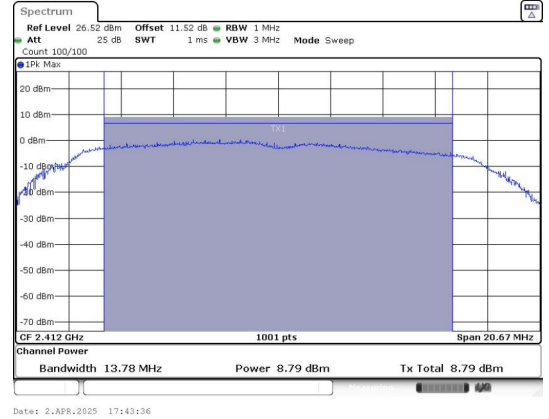
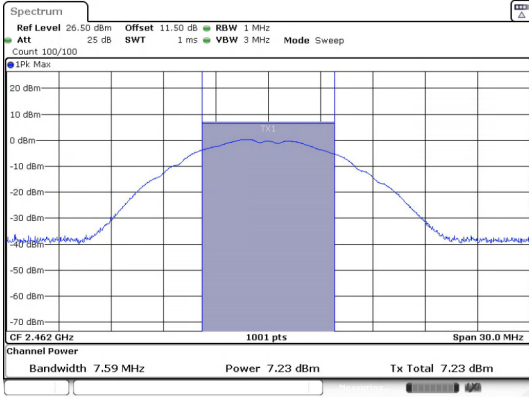
Test Result

Conducted Output Power

Mode	Channel	Ant. 0 (dBm)	Limit (dBm)
IEEE 802.11b	1	7.16	≤30
	6	7.42	≤30
	11	7.23	≤30
IEEE 802.11g	1	8.79	≤30
	6	8.47	≤30
	11	8.71	≤30
IEEE 802.11n_20	1	7.89	≤30
	6	8.03	≤30
	11	7.49	≤30

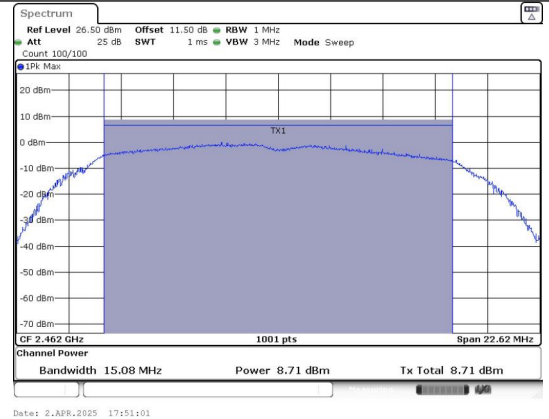
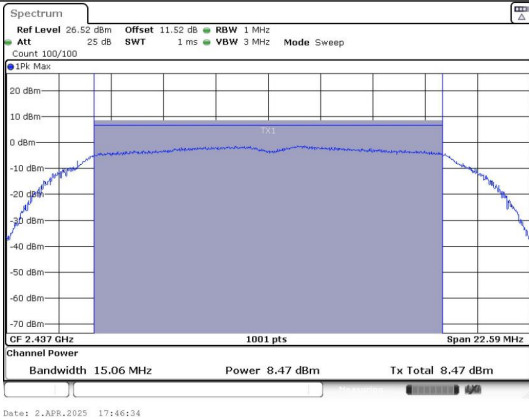
Test Graphs





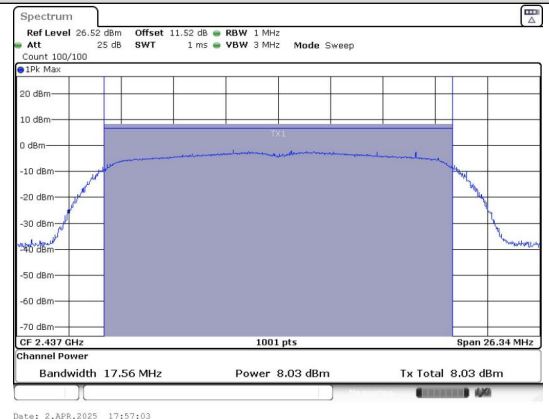
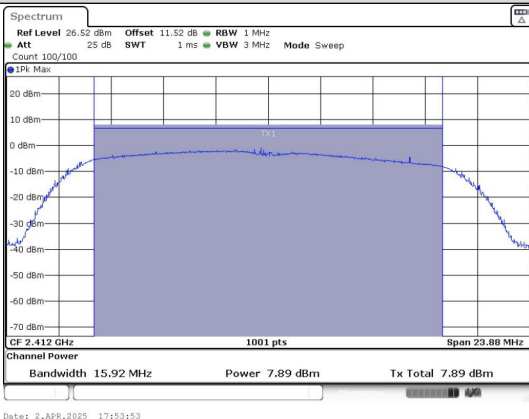
**Conducted Output Power
IEEE 802.11b_Channel 11_Antenna 0**

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



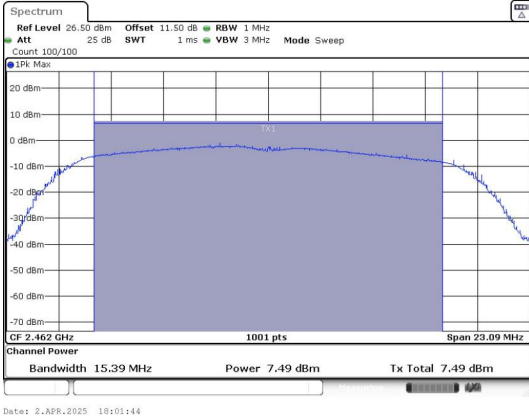
**Conducted Output Power
IEEE 802.11g_Channel 6_Antenna 0**

**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**



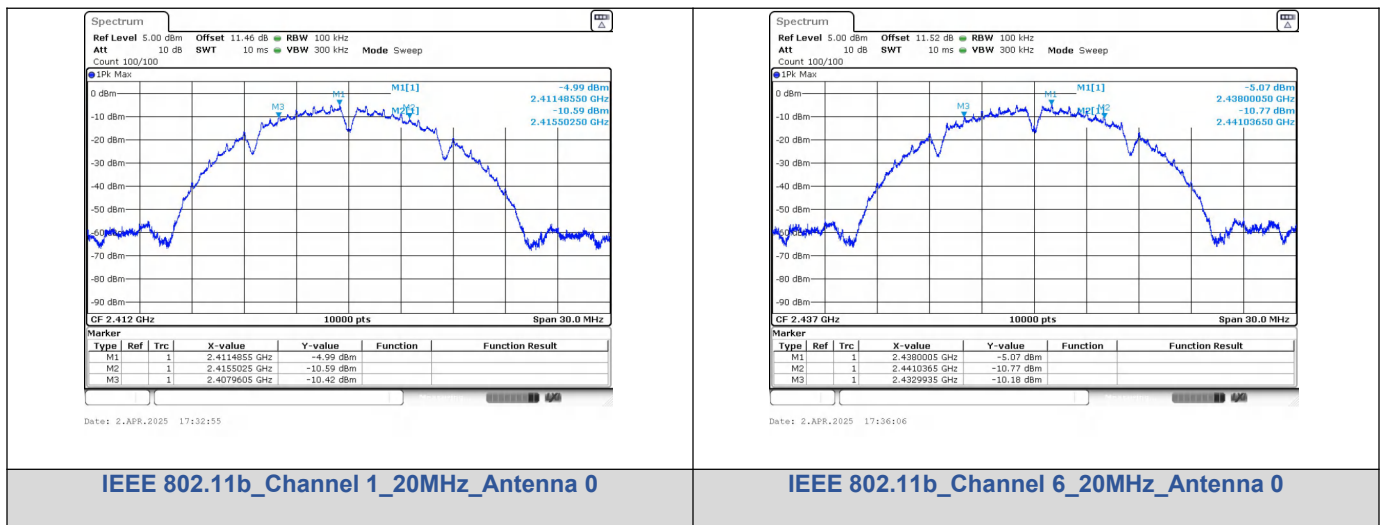
Conducted Output Power
IEEE 802.11n_20_Channel 11_Antenna 0

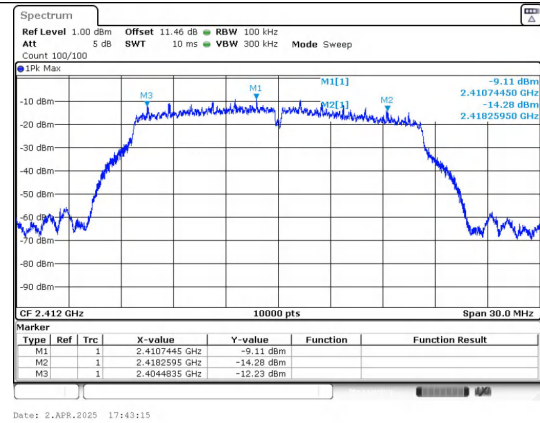
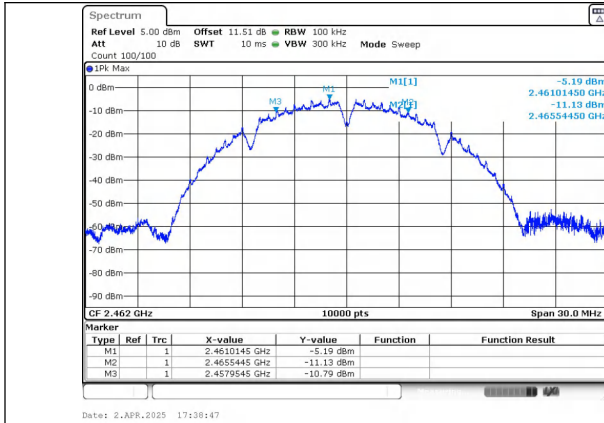
6dB Bandwidth

Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	7.540	≥0.5	PASS
	6		2437	8.050		PASS
	11		2462	7.590		PASS
IEEE 802.11g	1		2412	13.78		PASS
	6		2437	15.06		PASS
	11		2462	15.08		PASS
IEEE 802.11n_20	1		2412	15.92		PASS
	6		2437	17.56		PASS
	11		2462	15.39		PASS

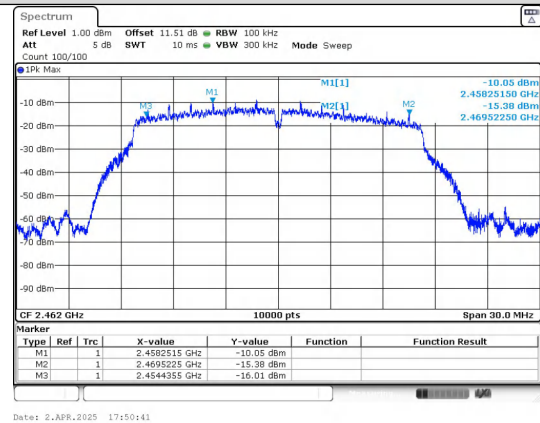
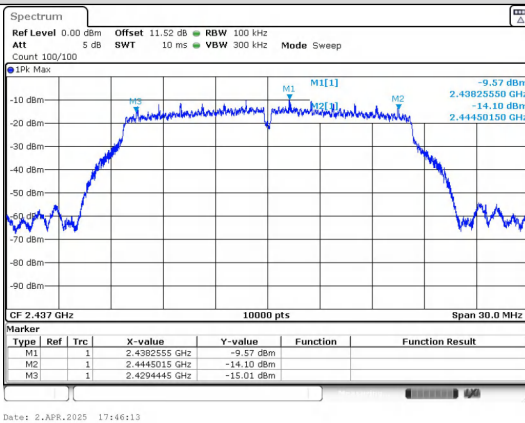
Test Graphs





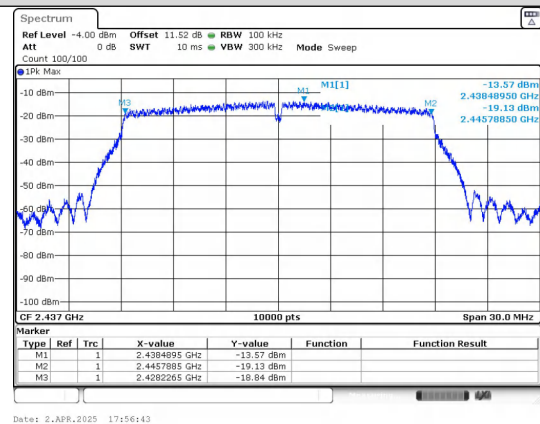
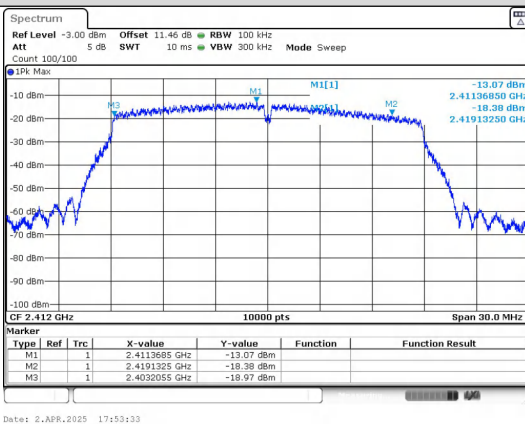
IEEE 802.11b_Channel 11_20MHz_Antenna 0

IEEE 802.11g_Channel 1_20MHz_Antenna 0



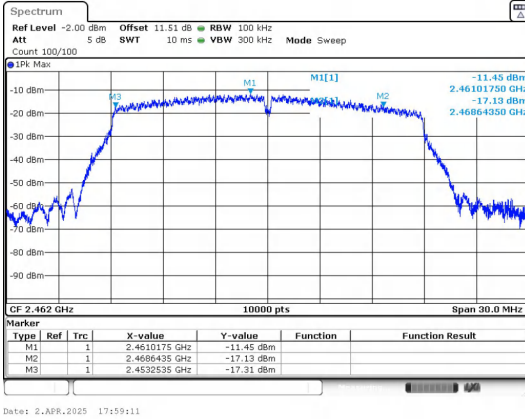
IEEE 802.11g_Channel 6_20MHz_Antenna 0

IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0

IEEE 802.11n_Channel 6_20MHz_Antenna 0



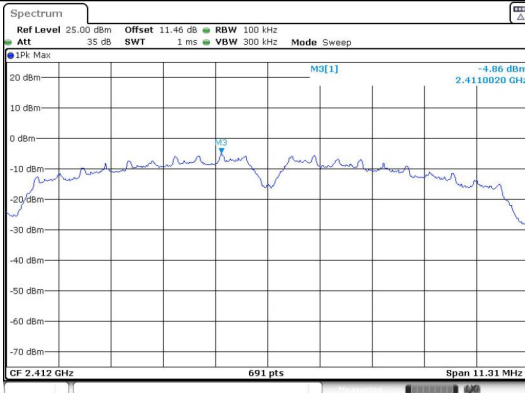
IEEE 802.11n_Channel 11_20MHz_Antenna 0

Conducted Out Of Band Emission

Test Result

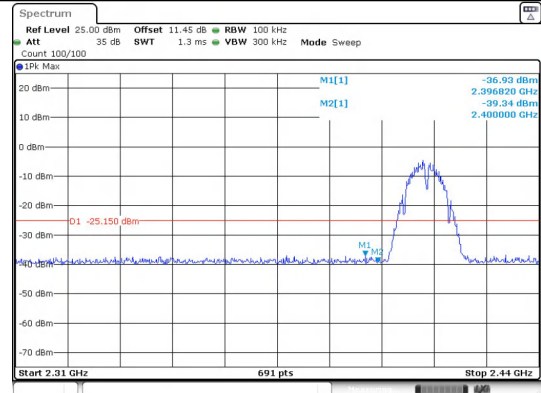
Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2396.82	-36.935	-25.15	-11.785	PASS
			2400.00	-39.340	-25.15	-14.190	PASS
			6915.50	-42.896	-25.15	-17.746	PASS
	6		4944.51	-42.689	-25.18	-17.509	PASS
	11		2483.50	-37.510	-25.05	-12.460	PASS
			6212.16	-43.256	-25.05	-18.206	PASS
IEEE 802.11g	1		2388.92	-36.680	-28.93	-7.750	PASS
			2400.00	-38.960	-28.93	-10.030	PASS
			6945.40	-42.823	-28.93	-13.893	PASS
	6		6922.97	-43.644	-30.41	-13.234	PASS
	11		2483.50	-36.610	-29.64	-6.970	PASS
			6908.82	-41.846	-29.64	-12.206	PASS
IEEE 802.11n_20	1		2315.74	-36.498	-33.21	-3.288	PASS
			2400.00	-38.900	-33.21	-5.690	PASS
			6923.80	-43.116	-33.21	-9.906	PASS
	6		6997.05	-43.240	-33.06	-10.180	PASS
	11		2483.50	-37.530	-31.78	-5.750	PASS
			22022.3	-43.183	-31.78	-11.403	PASS

Test Graphs



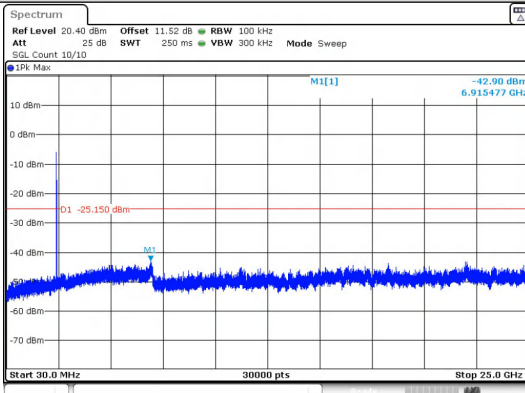
Date: 2.APR.2025 17:33:53

In-Band Reference Level
IEEE 802.11b_Channel 1_20MHz_Antenna 0



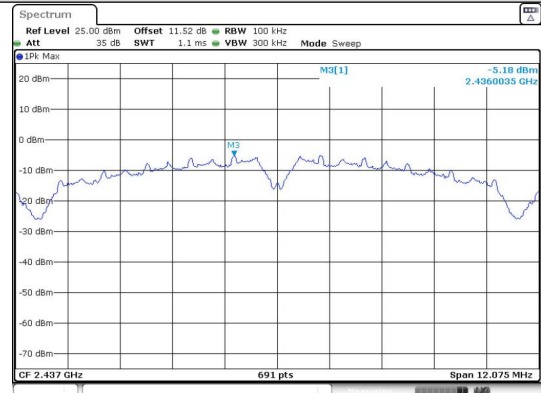
Date: 2.APR.2025 17:34:14

Out Of Band Emission
IEEE 802.11b_Channel 1_20MHz_Antenna 0



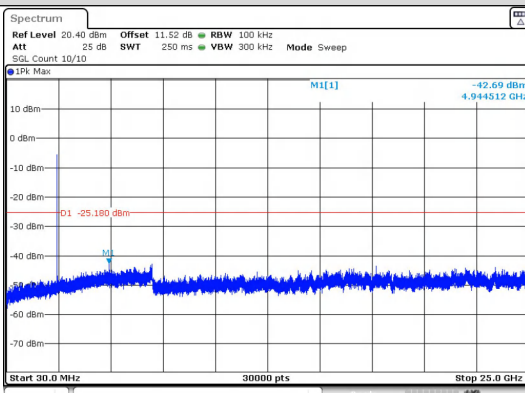
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30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 1_20MHz_Antenna 0



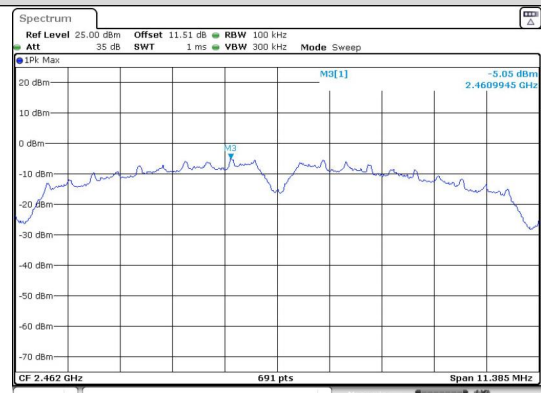
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In-Band Reference Level
IEEE 802.11b_Channel 6_20MHz_Antenna 0



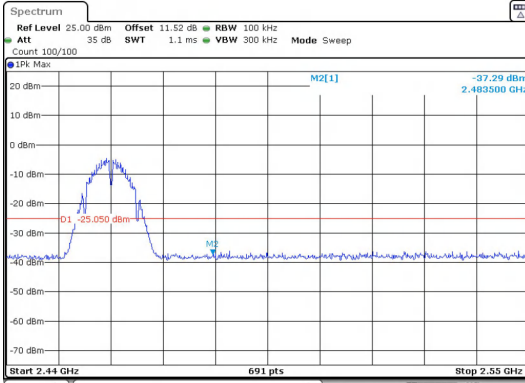
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30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 6_20MHz_Antenna 0

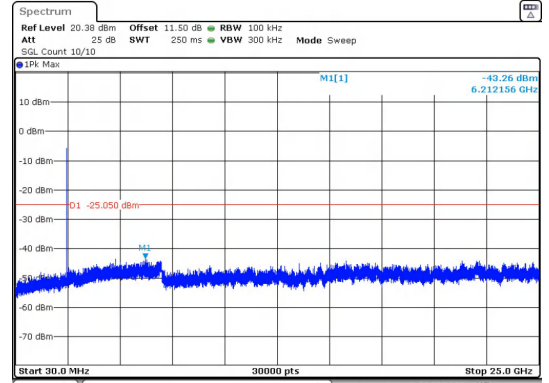


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In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0



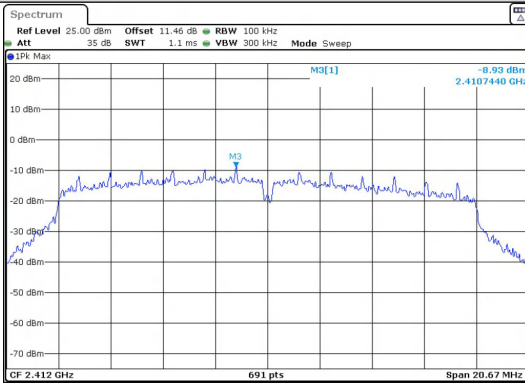
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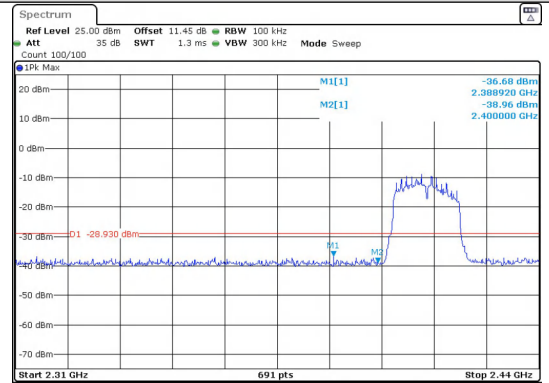
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Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0

30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 0



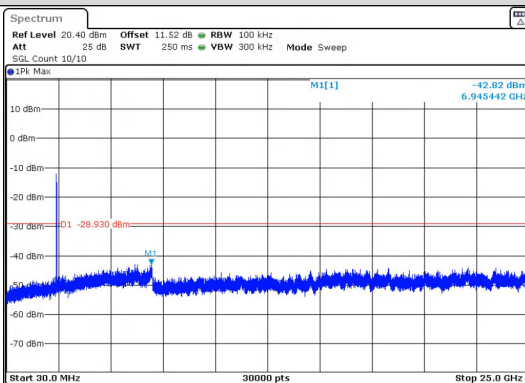
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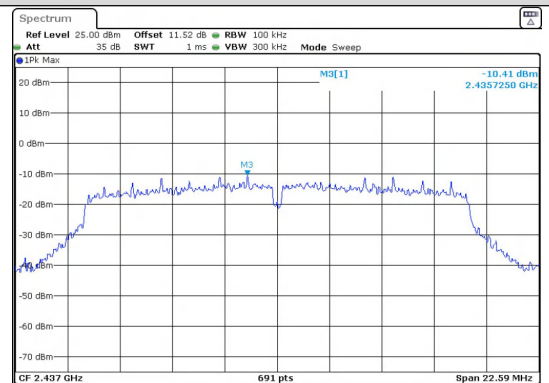
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In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0

Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



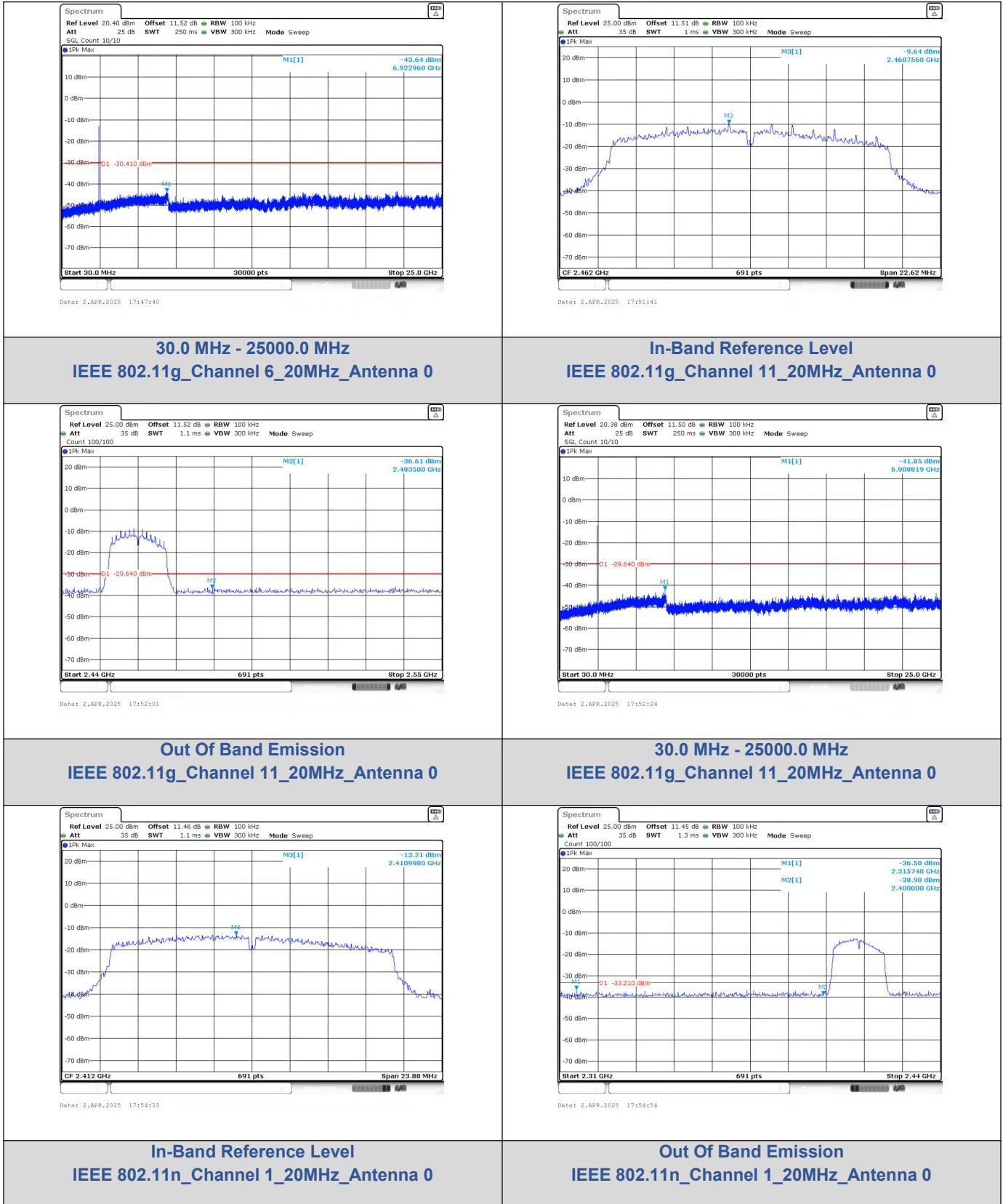
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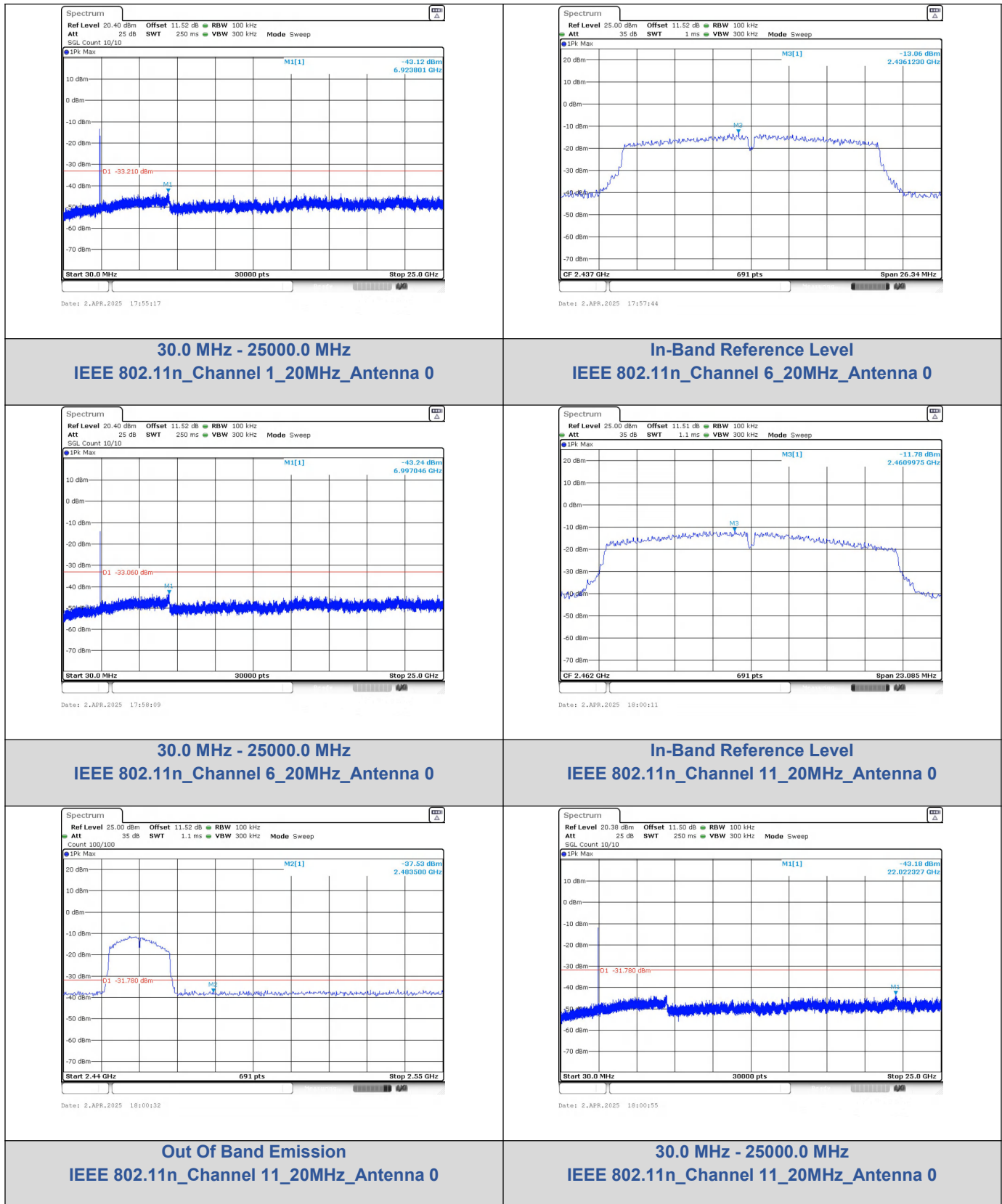


Date: 2.APR.2025 17:47:14

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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