

Appendix Report

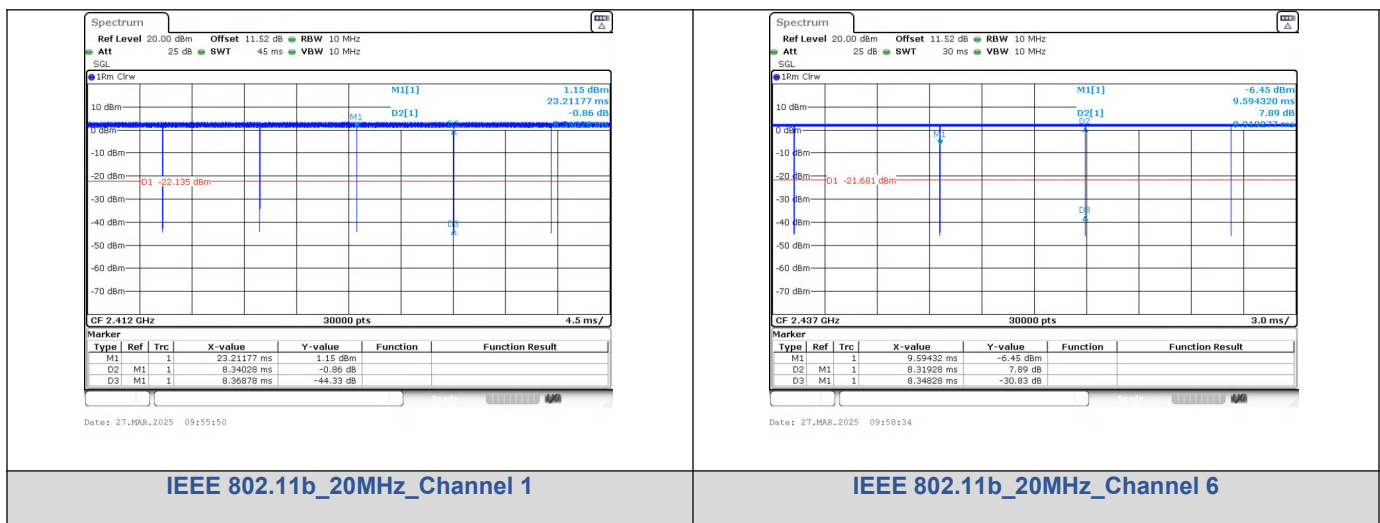
Project No.:	CISR250322197
Test Engineer:	James Wang
Supervised by:	Rory Huang

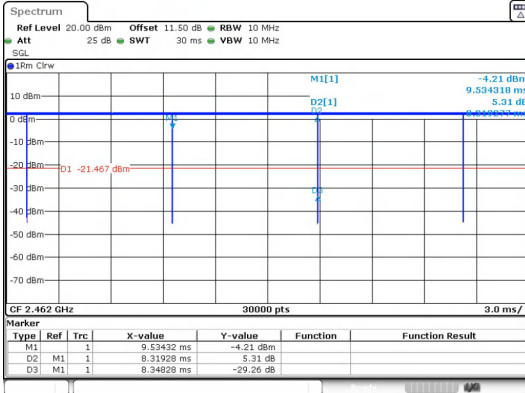
Duty Cycle

Test Result

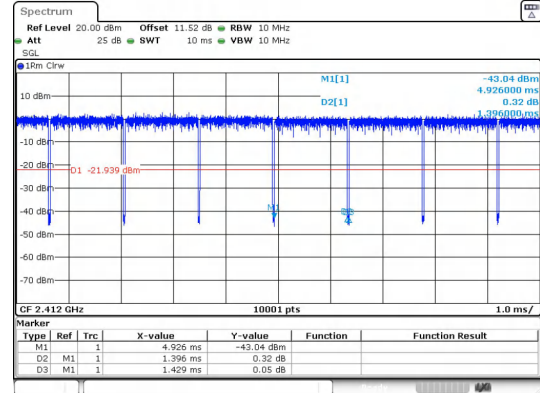
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11b	1	1	1	8.340	8.369	99.66	0.9966	0.0148	0.1199
		6		8.319	8.348	99.65	0.9965	0.0152	0.1202
		11		8.319	8.348	99.65	0.9965	0.0152	0.1202
1		1.396		1.429	97.69	0.9769	0.1015	0.7163	
6		1.396		1.429	97.69	0.9769	0.1015	0.7163	
11		1.396		1.430	97.62	0.9762	0.1046	0.7163	
IEEE 802.11g	MCS 0	1		1.304	1.337	97.53	0.9753	0.1086	0.7669
		6		1.293	1.327	97.44	0.9744	0.1126	0.7734
		11		1.292	1.326	97.44	0.9744	0.1126	0.7740

Test Graphs



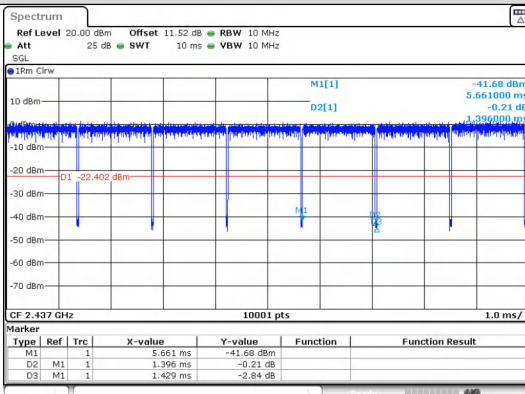


Date: 27,MAR,2025 10:01:16

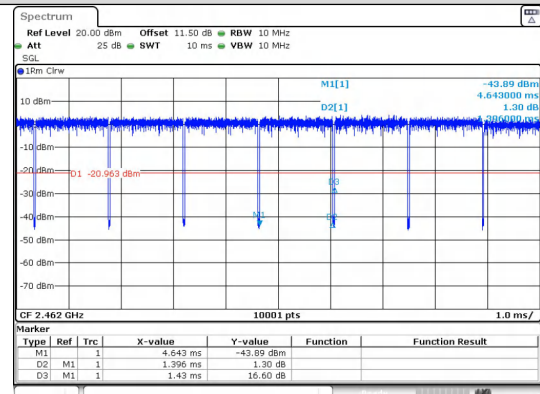


Date: 27,MAR,2025 10:06:17

IEEE 802.11b_20MHz_Channel 11

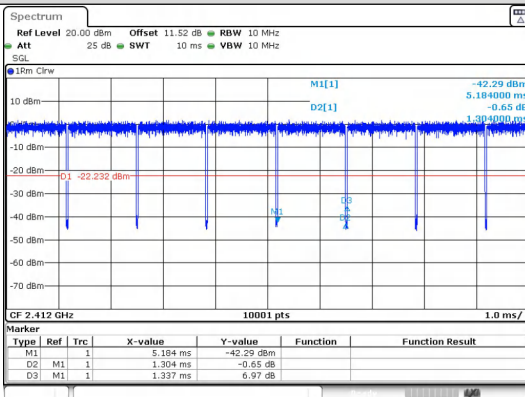


Date: 27,MAR,2025 10:09:22

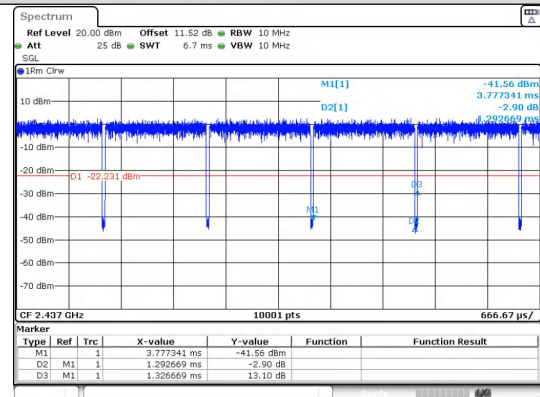


Date: 27,MAR,2025 10:12:02

IEEE 802.11g_20MHz_Channel 6



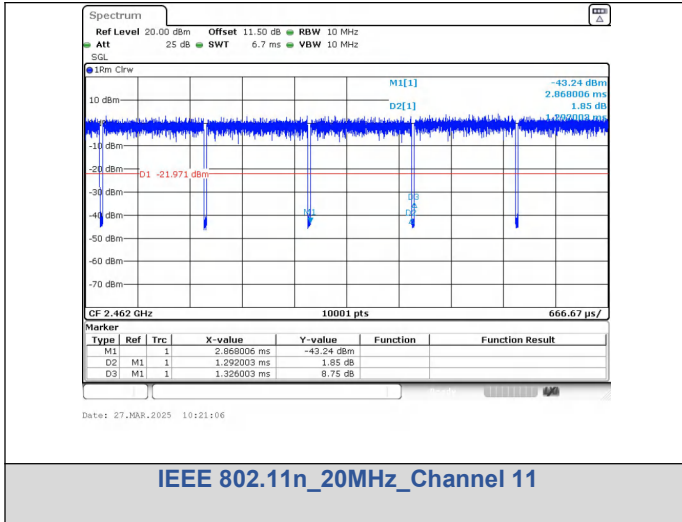
Date: 27,MAR,2025 10:15:03



Date: 27,MAR,2025 10:18:02

IEEE 802.11n_20MHz_Channel 1

IEEE 802.11n_20MHz_Channel 6

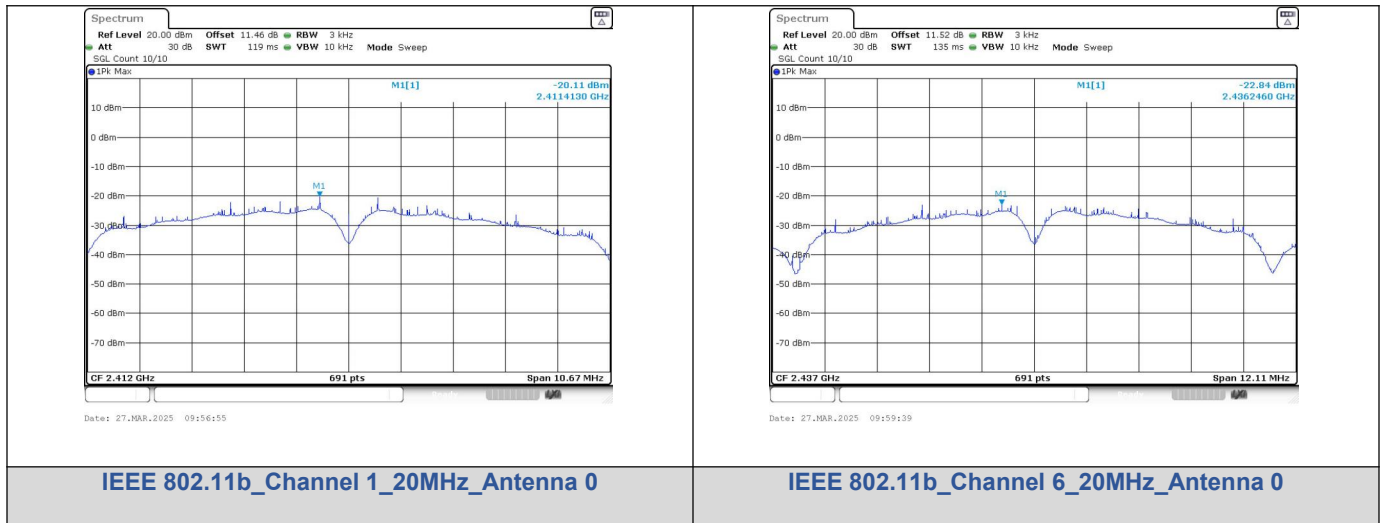


Power Spectral Density

Test Result

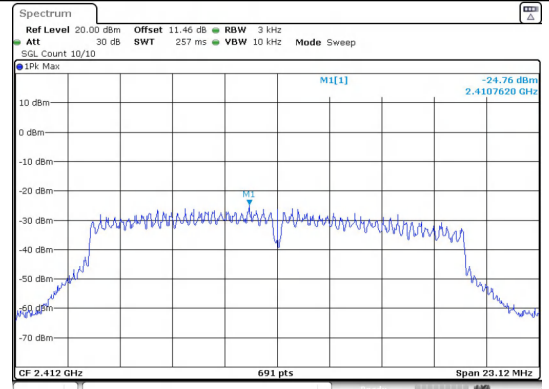
Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-20.110	≤8	PASS
	6	-22.840		PASS
	11	-21.990		PASS
IEEE 802.11g	1	-24.760		PASS
	6	-25.800		PASS
	11	-24.860		PASS
IEEE 802.11n_20	1	-23.620		PASS
	6	-26.320		PASS
	11	-25.260		PASS

Test Graphs

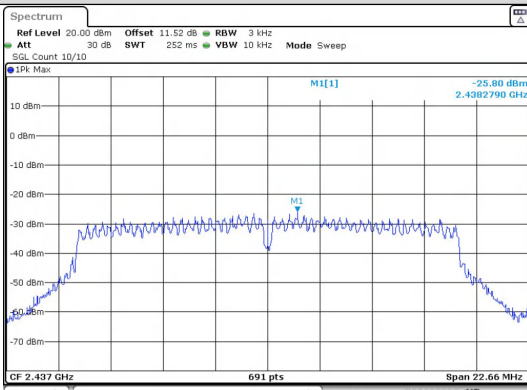




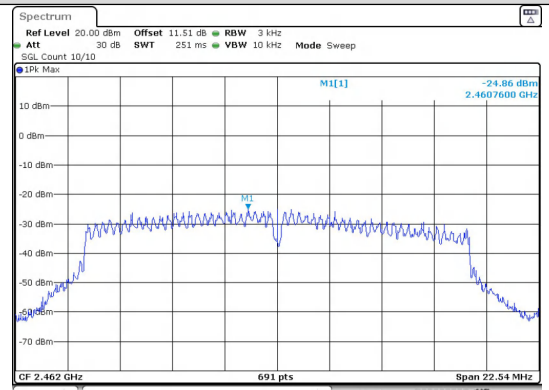
IEEE 802.11b_Channel 11_20MHz_Antenna 0



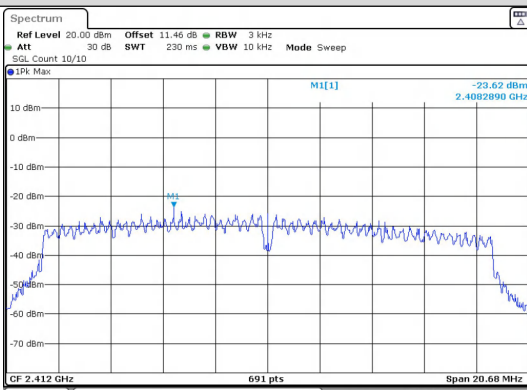
IEEE 802.11g_Channel 1_20MHz_Antenna 0



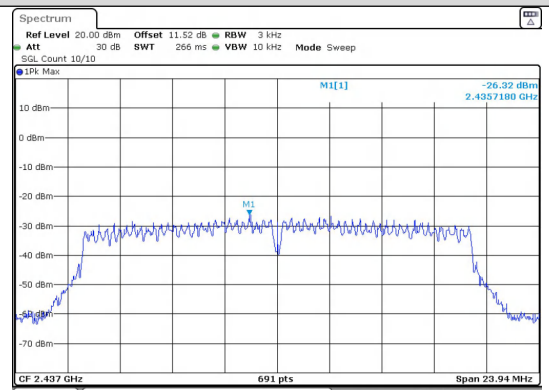
IEEE 802.11g_Channel 6_20MHz_Antenna 0



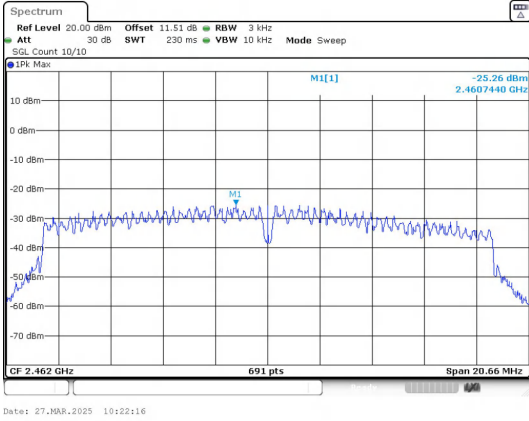
IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0



IEEE 802.11n_Channel 6_20MHz_Antenna 0



IEEE 802.11n_Channel 11_20MHz_Antenna 0

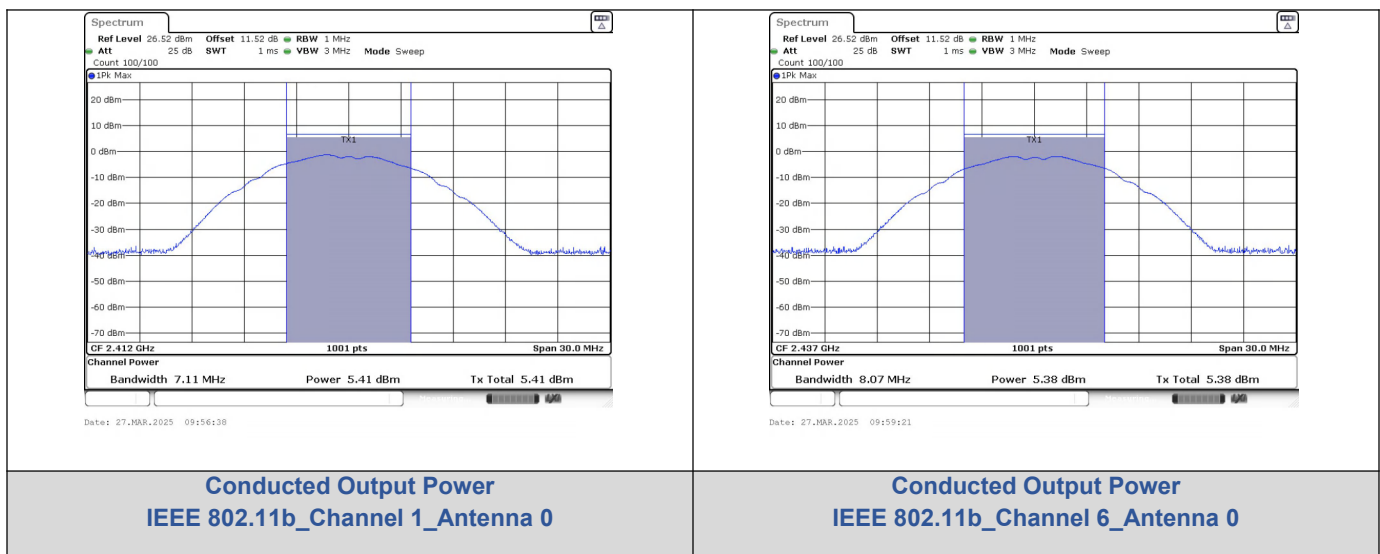
Conducted Output Power

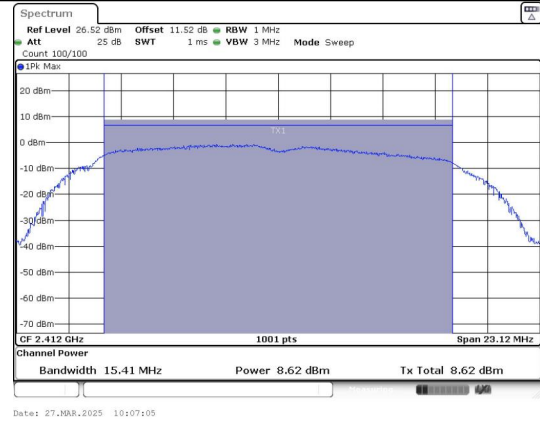
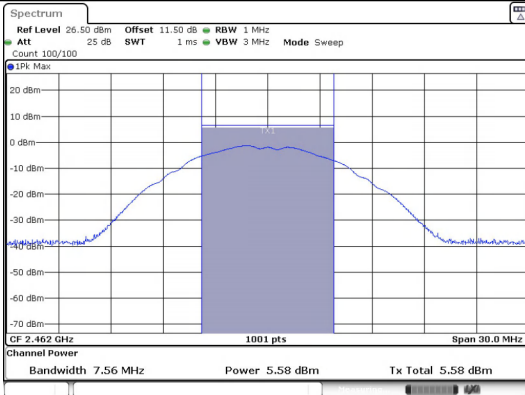
Test Result

Conducted Output Power

Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	5.41	≤30	PASS
	6	5.38	≤30	PASS
	11	5.58	≤30	PASS
IEEE 802.11g	1	8.62	≤30	PASS
	6	8.23	≤30	PASS
	11	7.82	≤30	PASS
IEEE 802.11n_20	1	8.27	≤30	PASS
	6	8.26	≤30	PASS
	11	9.08	≤30	PASS

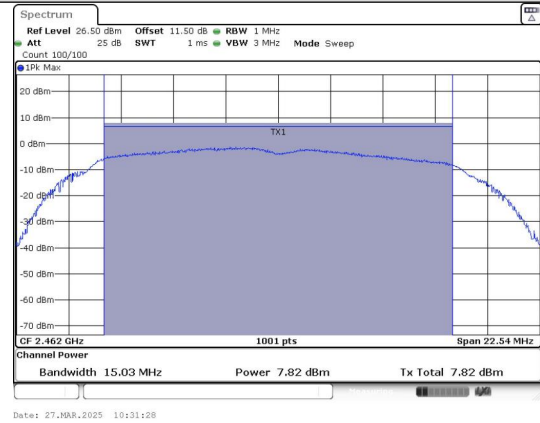
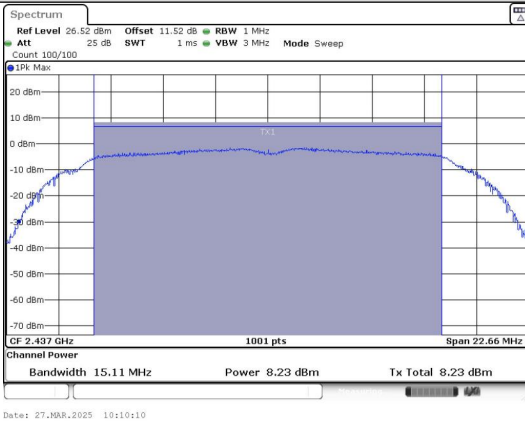
Test Graphs





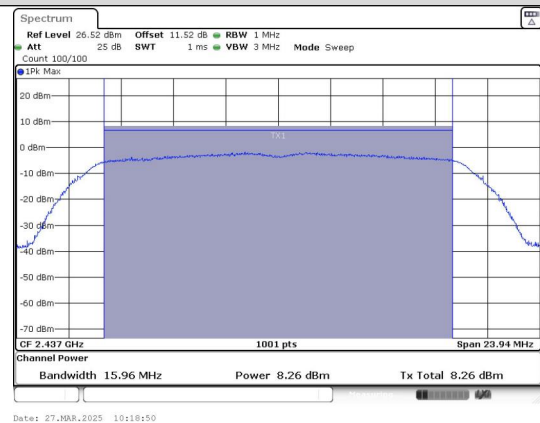
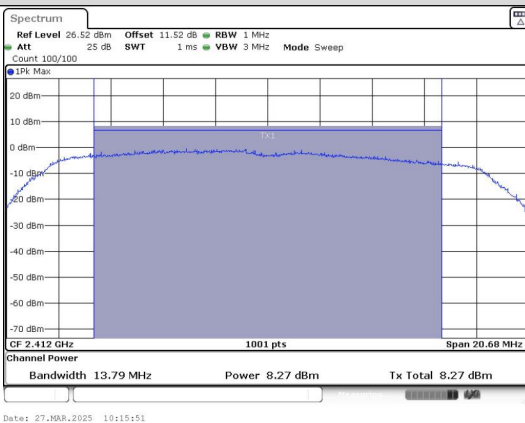
**Conducted Output Power
IEEE 802.11b_Channel 11_Antenna 0**

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



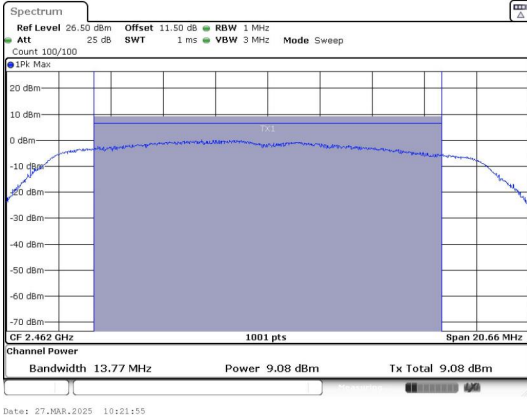
**Conducted Output Power
IEEE 802.11g_Channel 6_Antenna 0**

**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**



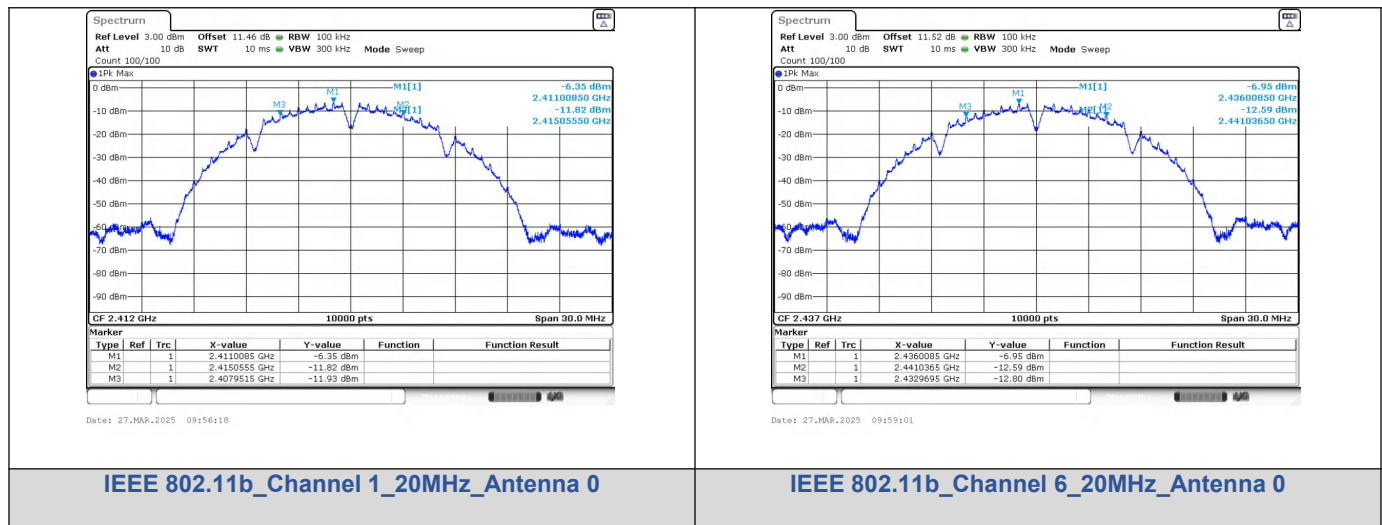
Conducted Output Power
IEEE 802.11n_20_Channel 11_Antenna 0

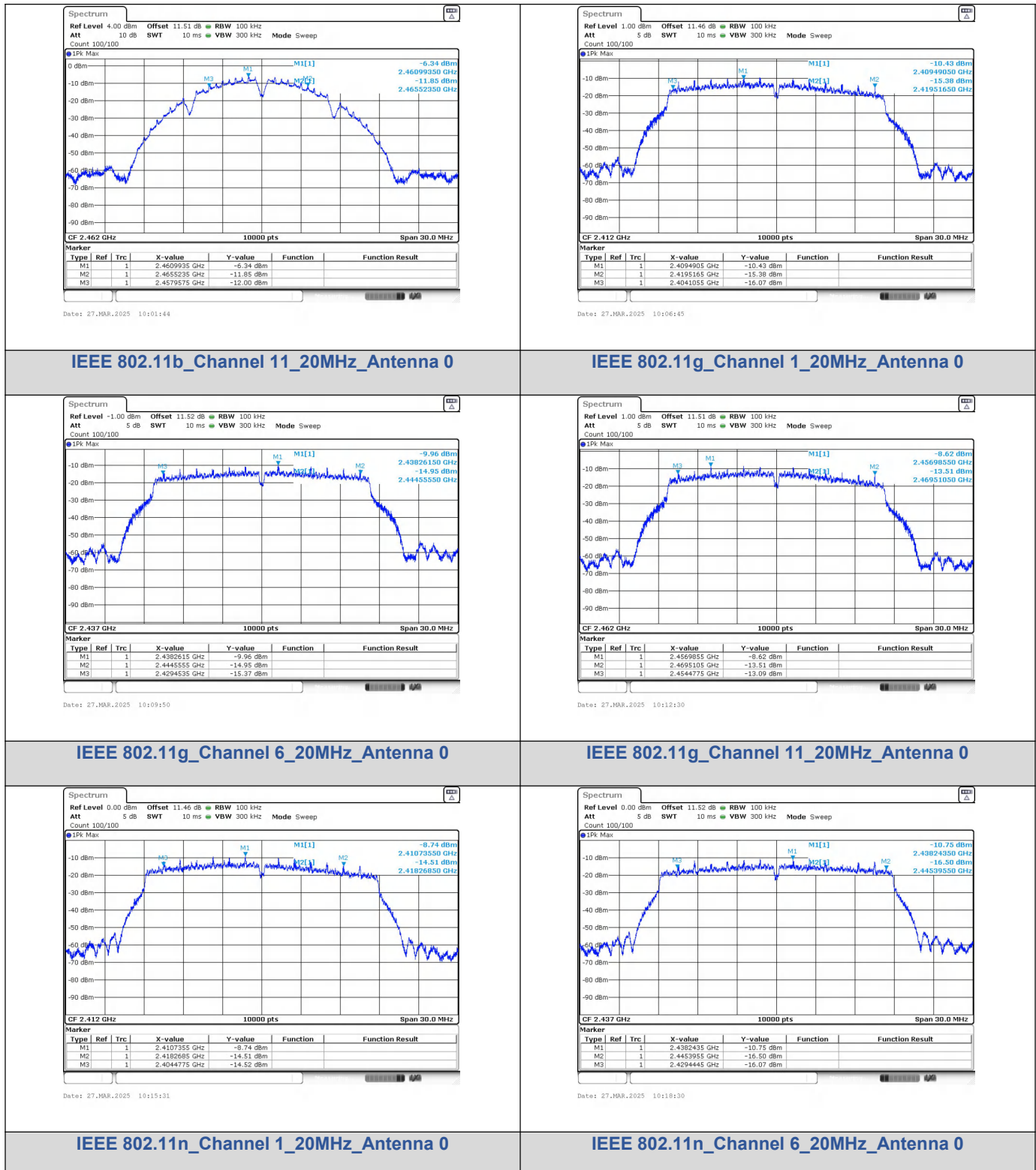
6dB Bandwidth

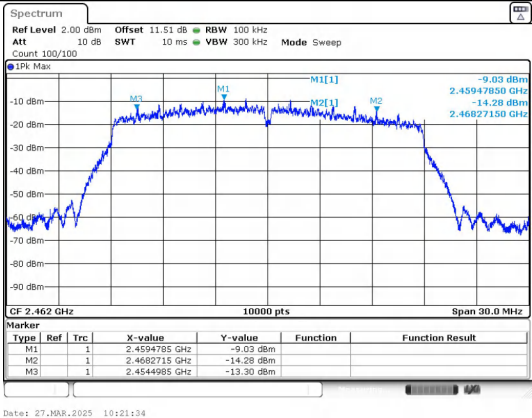
Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	7.110	≥0.5	PASS
	6		2437	8.070		PASS
	11		2462	7.560		PASS
IEEE 802.11g	1		2412	15.41		PASS
	6		2437	15.11		PASS
	11		2462	15.03		PASS
IEEE 802.11n_20	1		2412	13.79		PASS
	6		2437	15.96		PASS
	11		2462	13.77		PASS

Test Graphs







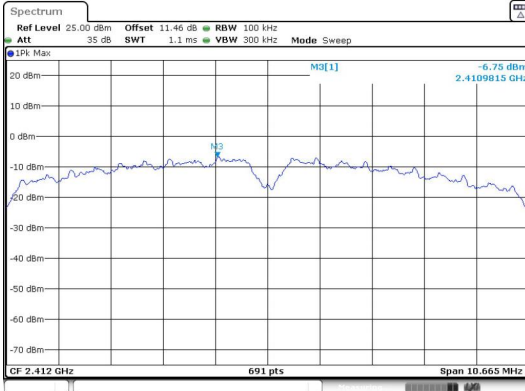
IEEE 802.11n_Channel 11_20MHz_Antenna 0

Conducted Out Of Band Emission

Test Result

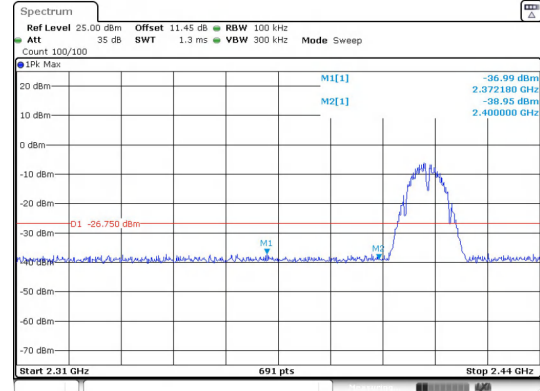
Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2372.18	-36.987	-26.75	-10.237	PASS
			2400.00	-38.950	-26.75	-12.200	PASS
			6916.30	-43.363	-26.75	-16.613	PASS
	6		6973.74	-41.900	-26.95	-14.950	PASS
	11		2483.50	-38.180	-26.41	-11.770	PASS
			6924.63	-43.260	-26.41	-16.850	PASS
IEEE 802.11g	1		2350.73	-36.316	-29.49	-6.826	PASS
			2400.00	-38.990	-29.49	-9.500	PASS
			22050.6	-42.267	-29.49	-12.777	PASS
	6		6925.47	-43.196	-30.15	-13.046	PASS
	11		2483.50	-38.720	-29.13	-9.590	PASS
			6932.96	-42.930	-29.13	-13.800	PASS
IEEE 802.11n_20	1		2373.12	-36.826	-30.12	-6.706	PASS
			2400.00	-38.020	-30.12	-7.900	PASS
			22046.5	-43.109	-30.12	-12.989	PASS
	6		6914.65	-43.234	-30.86	-12.374	PASS
	11		2483.50	-38.720	-28.94	-9.780	PASS
			6178.03	-43.353	-28.94	-14.413	PASS

Test Graphs



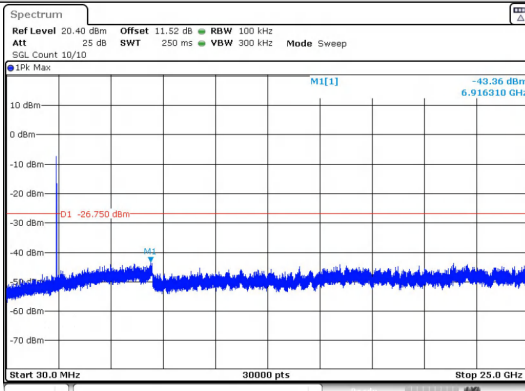
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In-Band Reference Level
IEEE 802.11b_Channel 1_20MHz_Antenna 0



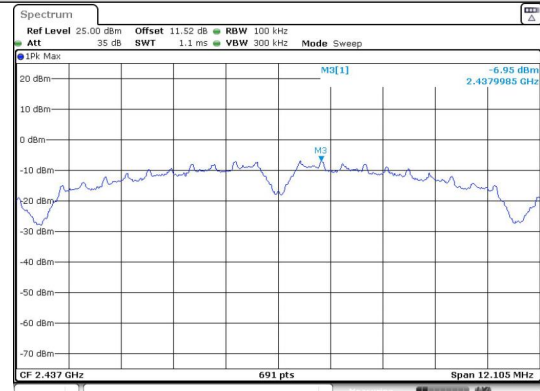
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Out Of Band Emission
IEEE 802.11b_Channel 1_20MHz_Antenna 0



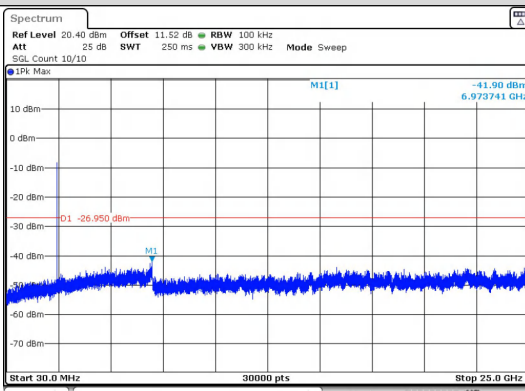
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30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 1_20MHz_Antenna 0



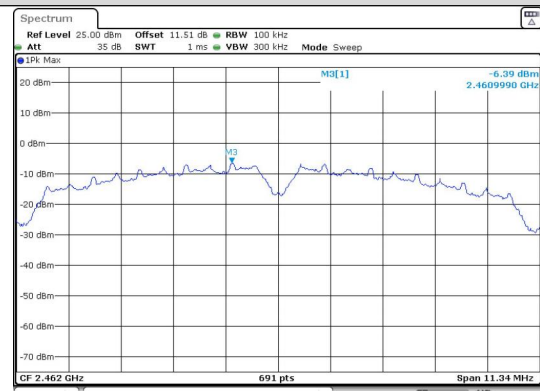
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In-Band Reference Level
IEEE 802.11b_Channel 6_20MHz_Antenna 0



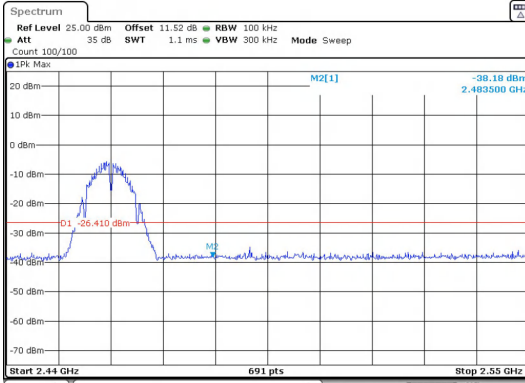
Date: 27.MAR.2025 10:00:24

30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 6_20MHz_Antenna 0

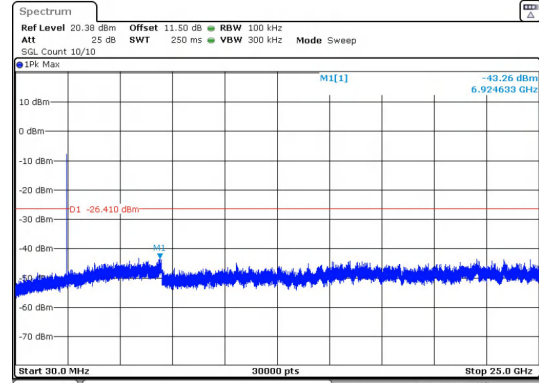


Date: 27.MAR.2025 10:02:41

In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0



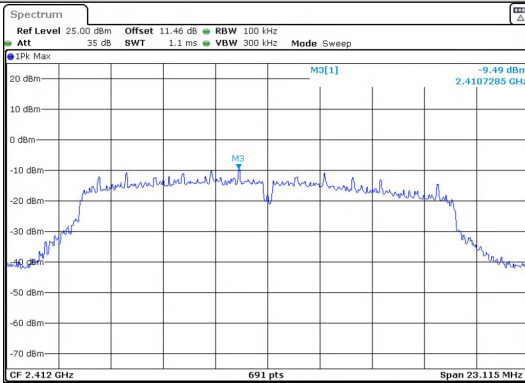
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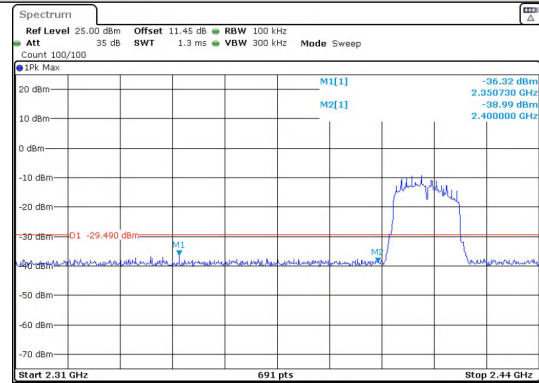
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Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0

30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 0



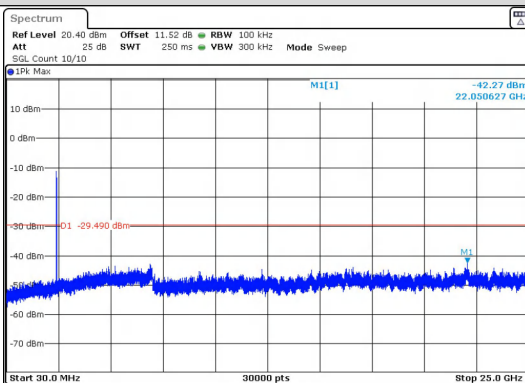
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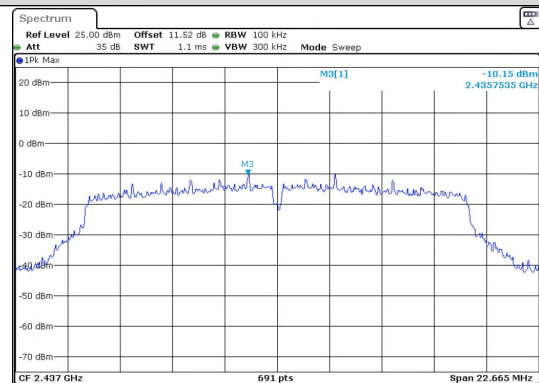
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In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0

Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



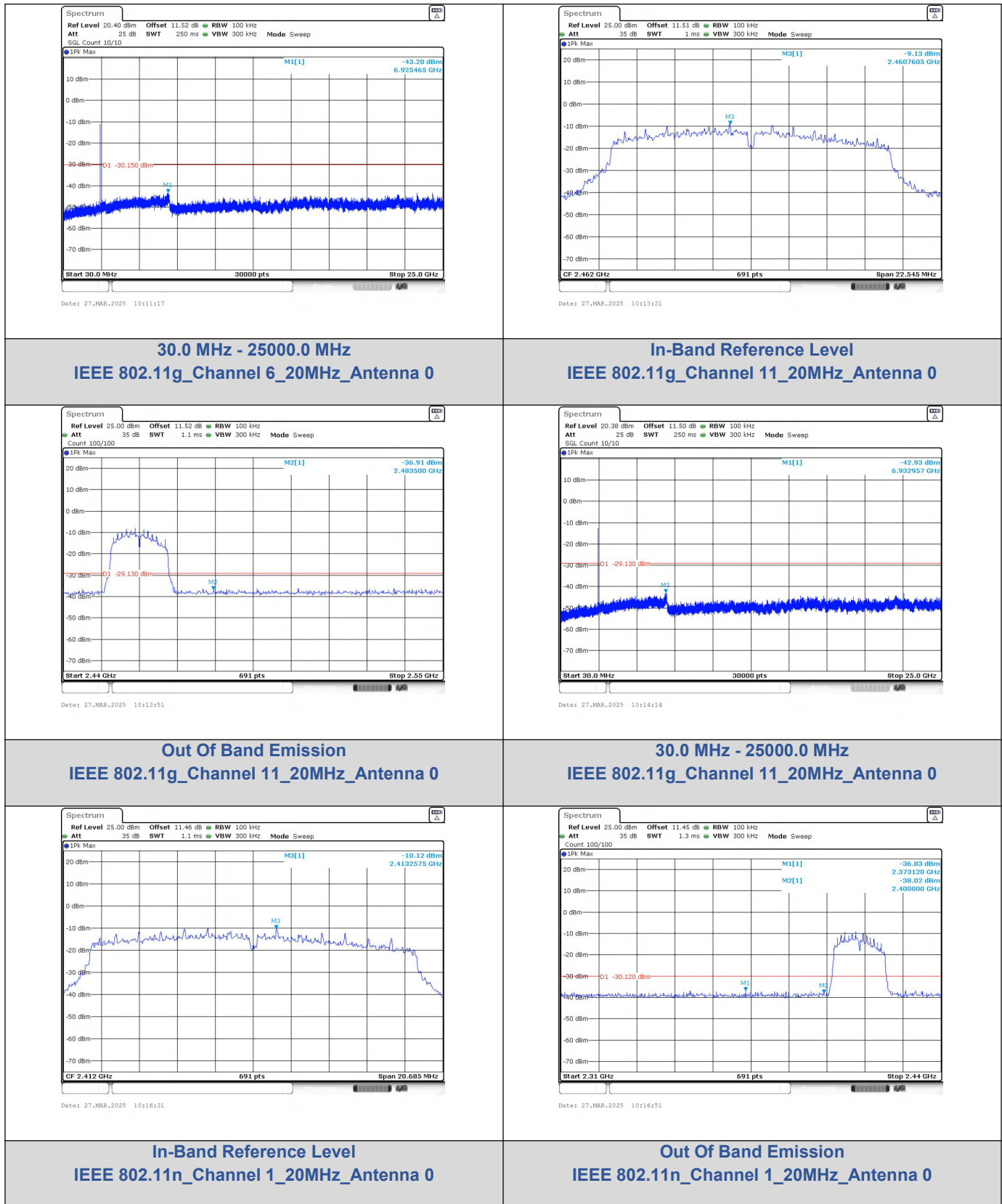
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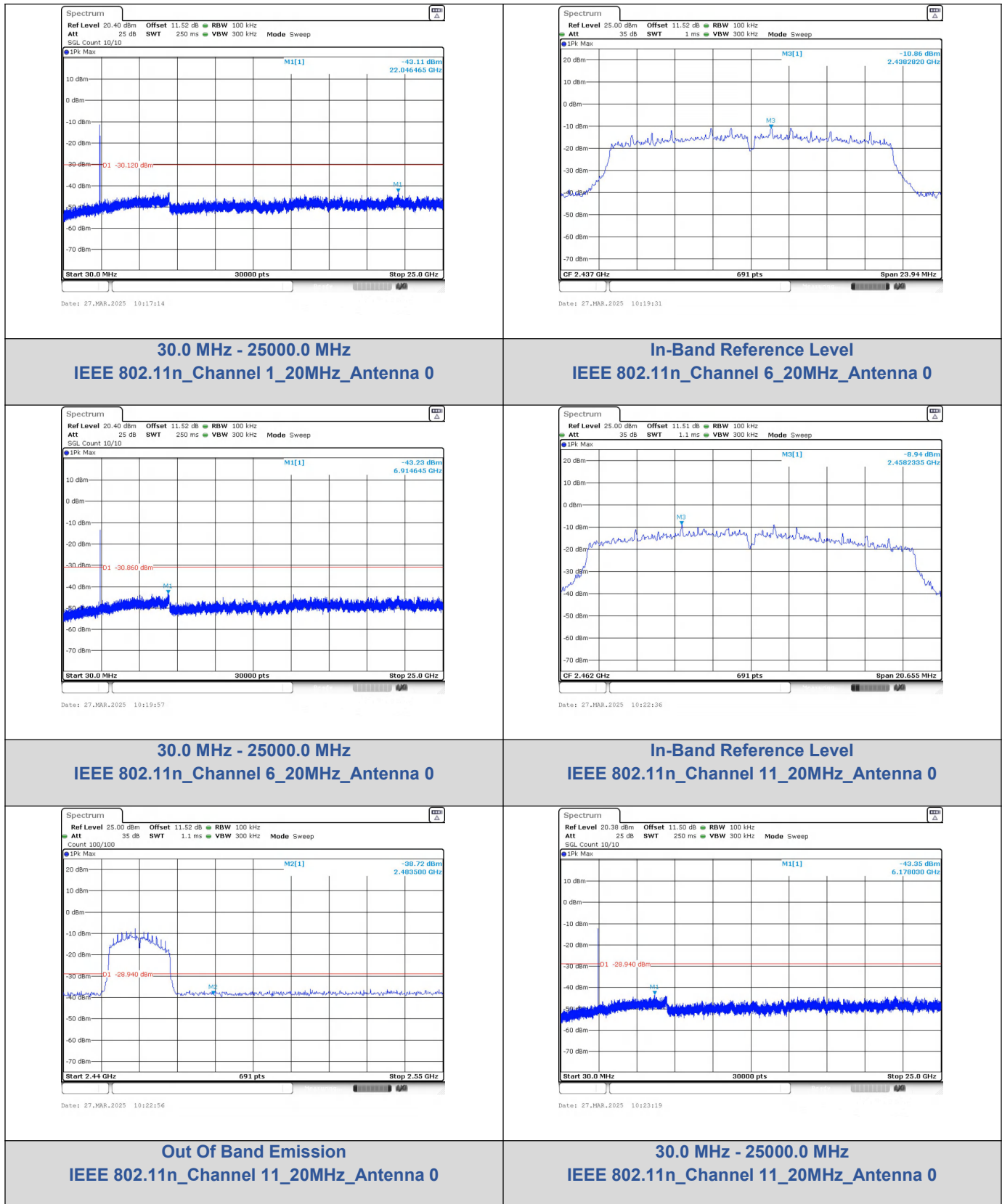


Date: 27.MAR.2025 10:10:51

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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