

Appendix Report

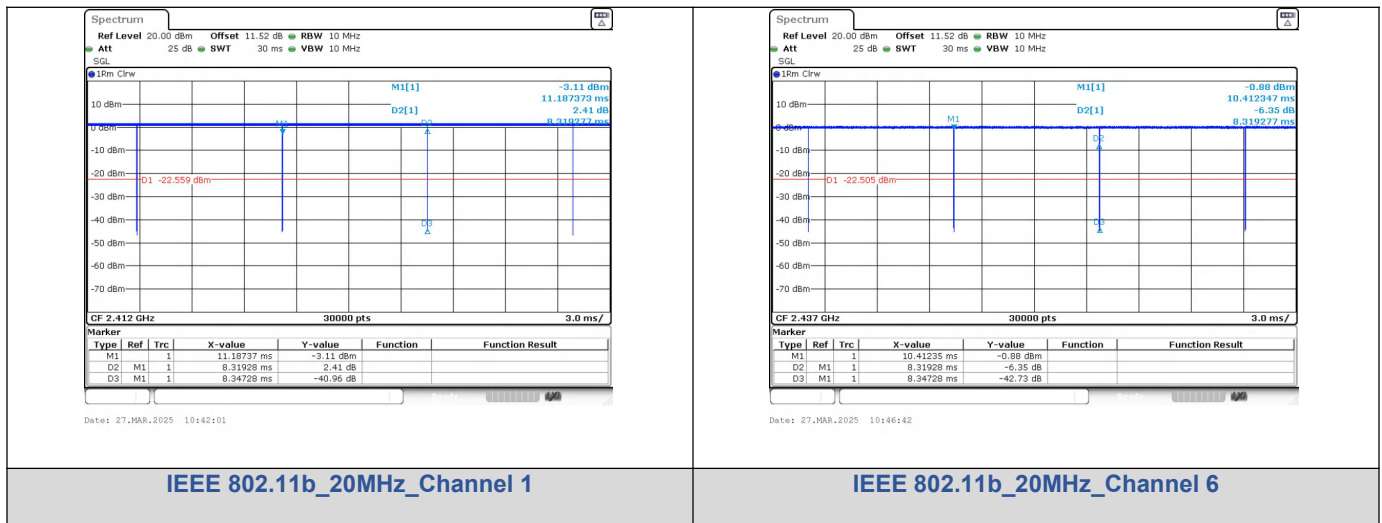
Project No.:	CISR250322195
Test Engineer:	James Wang
Supervised by:	Rory Huang

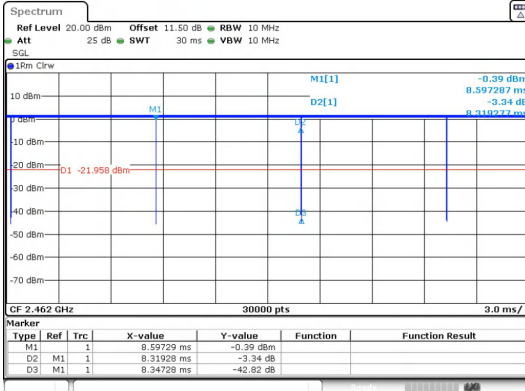
Duty Cycle

Test Result

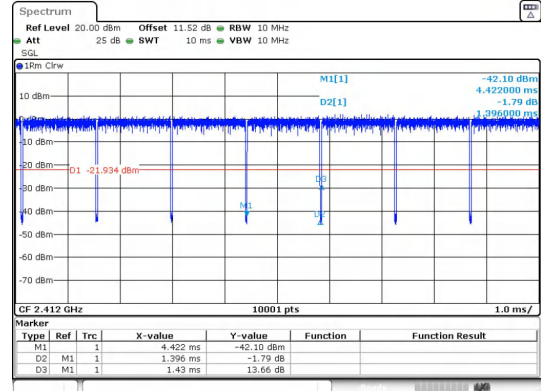
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11b	1	1	1	8.319	8.347	99.66	0.9966	0.0148	0.1202
		6		8.319	8.347	99.66	0.9966	0.0148	0.1202
		11		8.319	8.347	99.66	0.9966	0.0148	0.1202
IEEE 802.11g		1		1.396	1.430	97.62	0.9762	0.1046	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		1.293	1.327	97.44	0.9744	0.1126	0.7734
		6		1.293	1.327	97.44	0.9744	0.1126	0.7734
		11		1.293	1.327	97.44	0.9744	0.1126	0.7734

Test Graphs





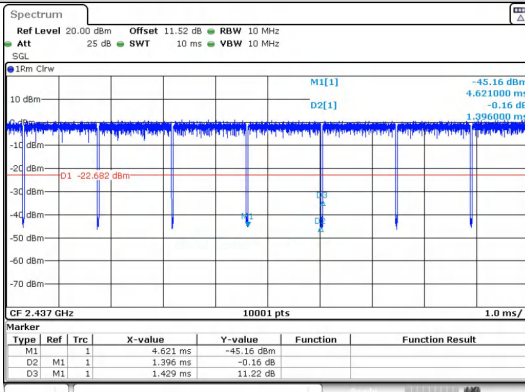
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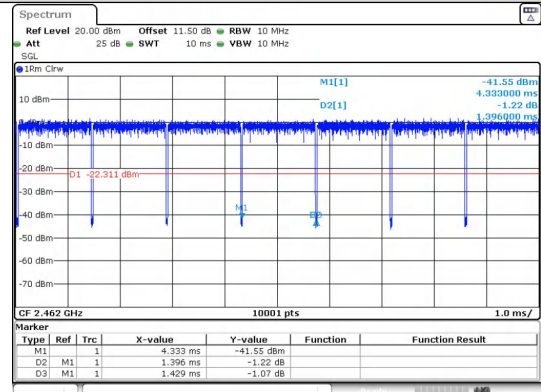
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IEEE 802.11b_20MHz_Channel 11

IEEE 802.11g_20MHz_Channel 1



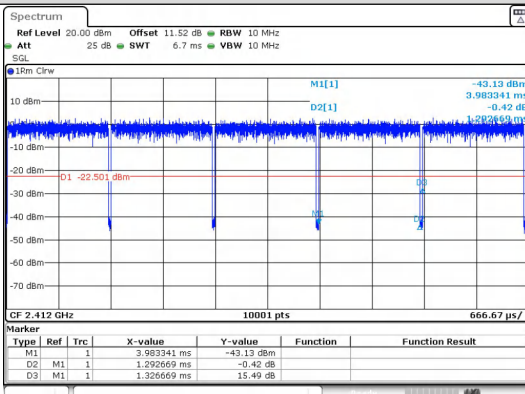
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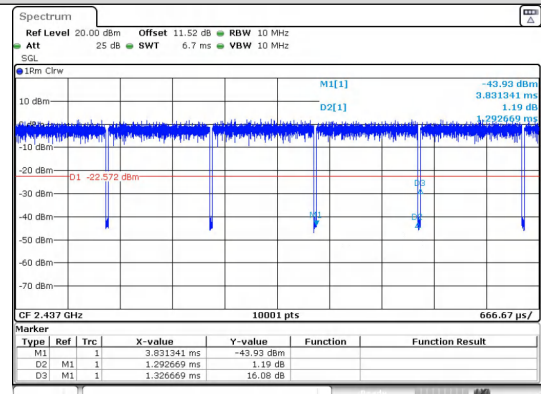
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IEEE 802.11g_20MHz_Channel 6

IEEE 802.11g_20MHz_Channel 11



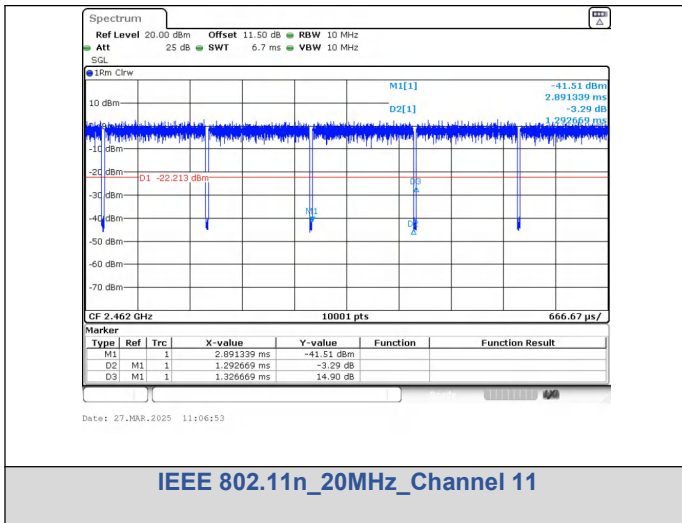
Date: 27,MAR,2025 11:01:03



Date: 27,MAR,2025 11:04:23

IEEE 802.11n_20MHz_Channel 1

IEEE 802.11n_20MHz_Channel 6

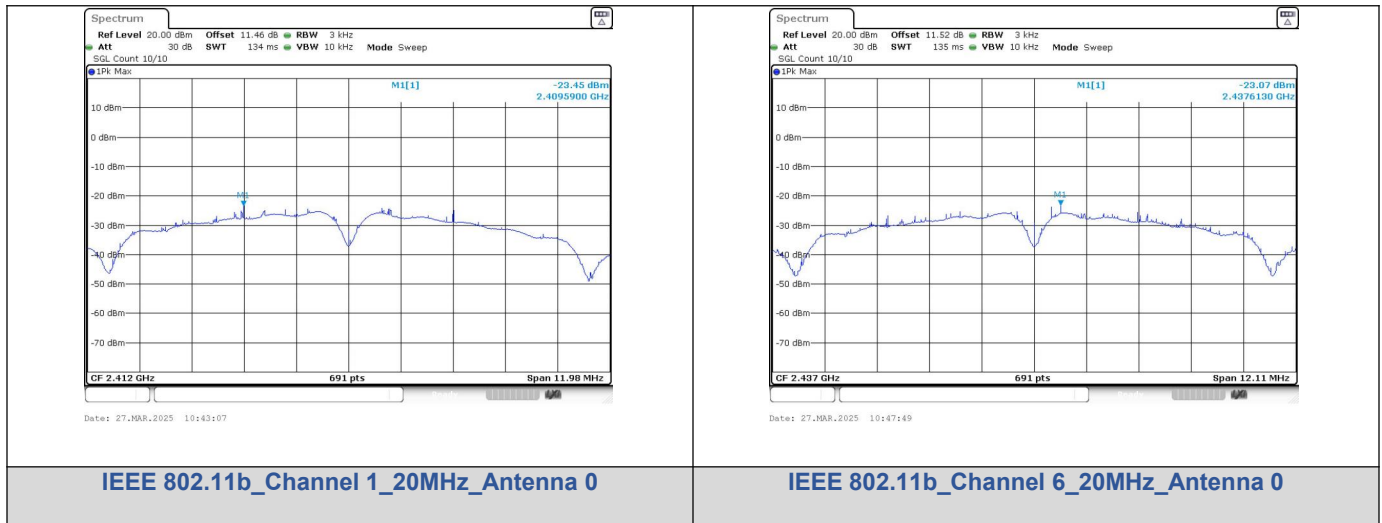


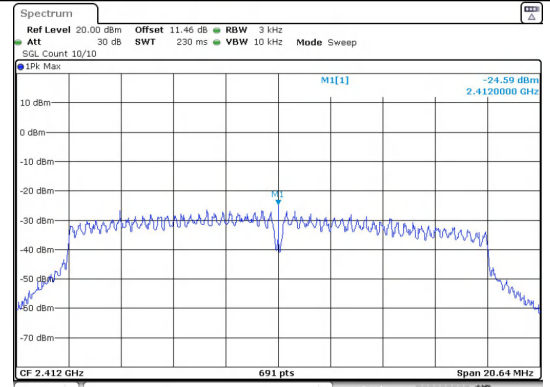
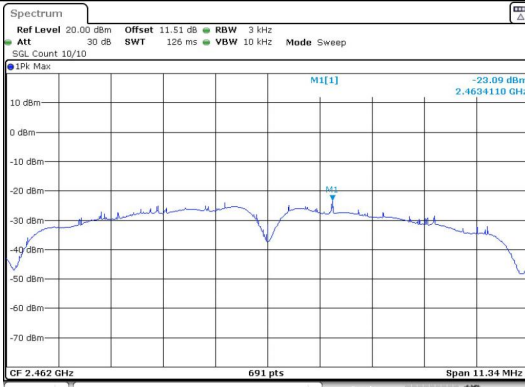
Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-23.450	≤8	PASS
	6	-23.070		PASS
	11	-23.090		PASS
IEEE 802.11g	1	-24.590		PASS
	6	-27.020		PASS
	11	-24.720		PASS
IEEE 802.11n_20	1	-24.440		PASS
	6	-24.930		PASS
	11	-25.680		PASS

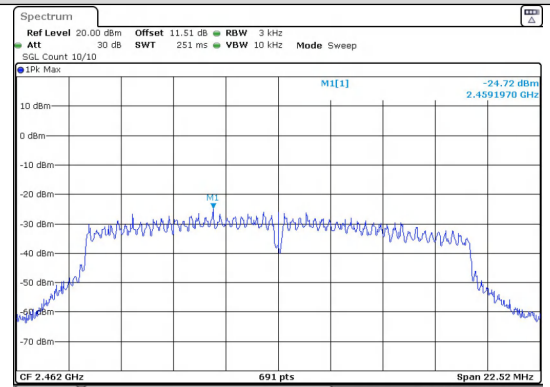
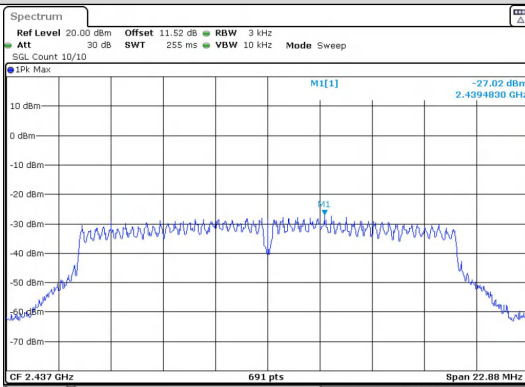
Test Graphs





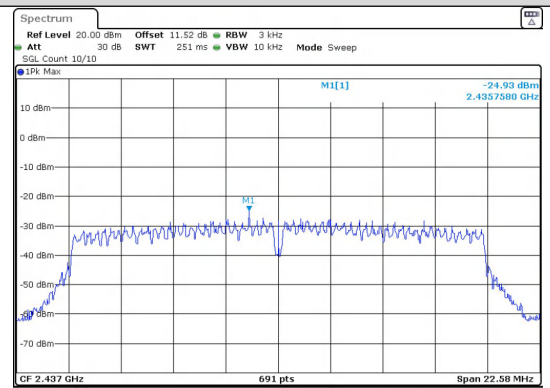
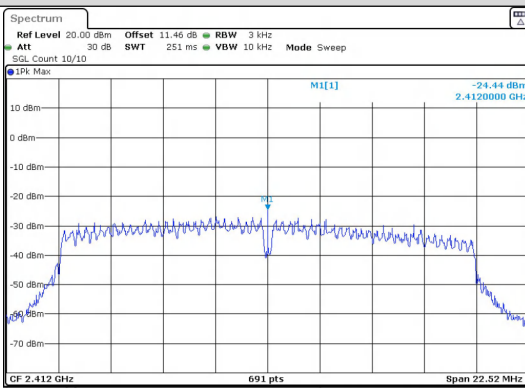
IEEE 802.11b_Channel 11_20MHz_Antenna 0

IEEE 802.11g_Channel 1_20MHz_Antenna 0



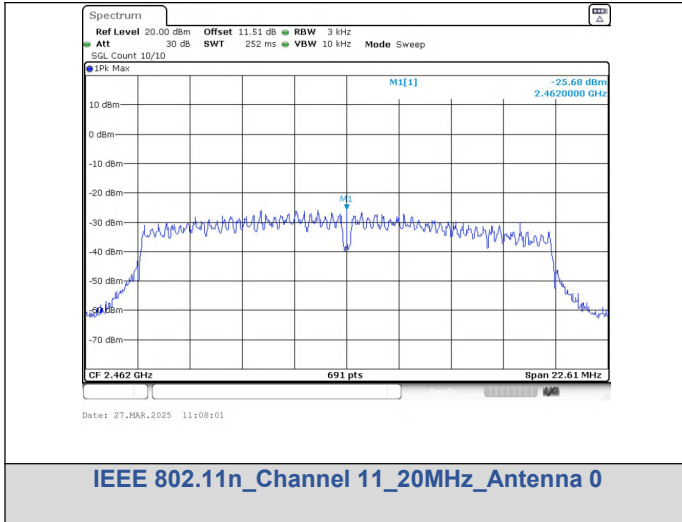
IEEE 802.11g_Channel 6_20MHz_Antenna 0

IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0

IEEE 802.11n_Channel 6_20MHz_Antenna 0



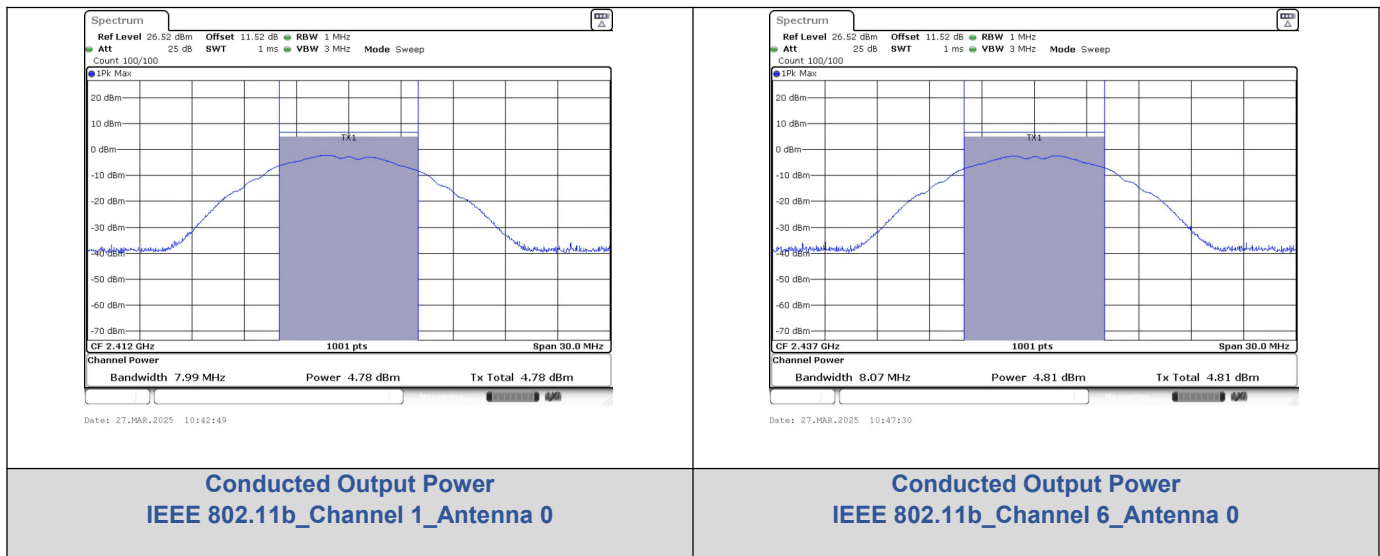
Conducted Output Power

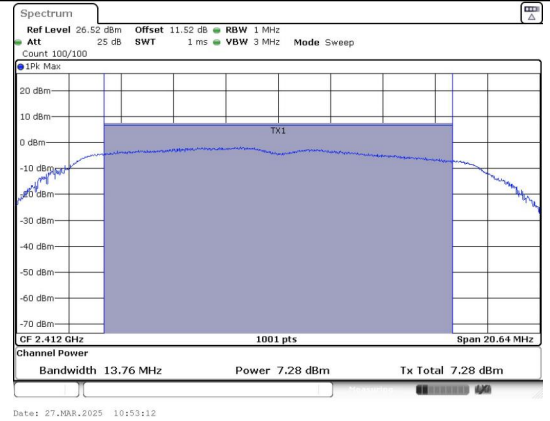
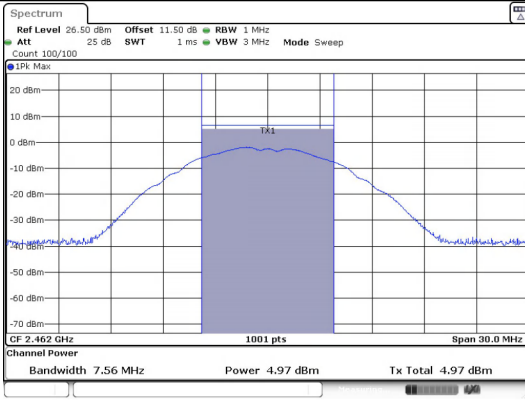
Test Result

Conducted Output Power

Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	4.78	≤30	PASS
	6	4.61	≤30	PASS
	11	4.97	≤30	PASS
IEEE 802.11g	1	7.28	≤30	PASS
	6	7.30	≤30	PASS
	11	8.08	≤30	PASS
IEEE 802.11n_20	1	7.53	≤30	PASS
	6	7.31	≤30	PASS
	11	7.89	≤30	PASS

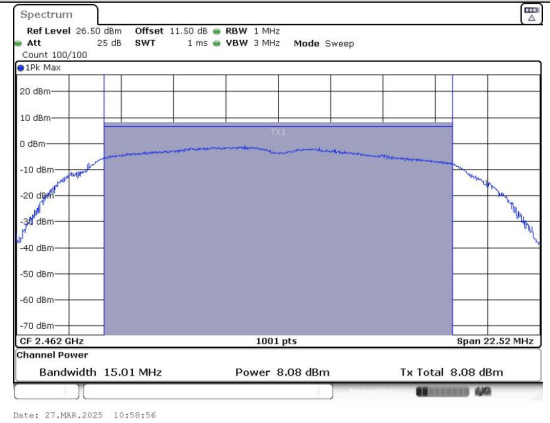
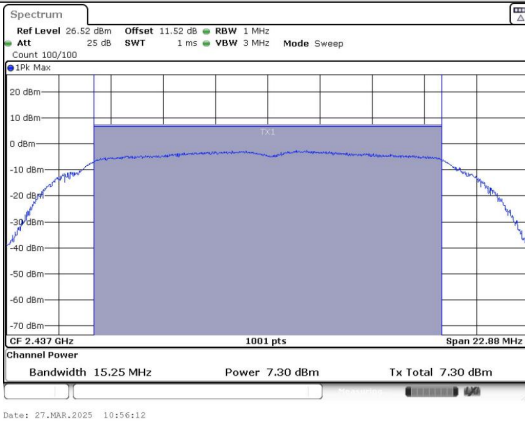
Test Graphs





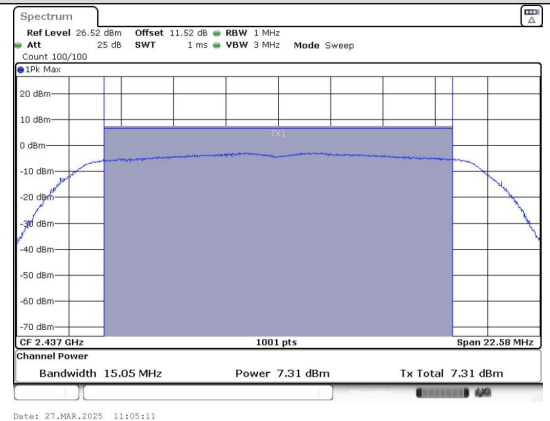
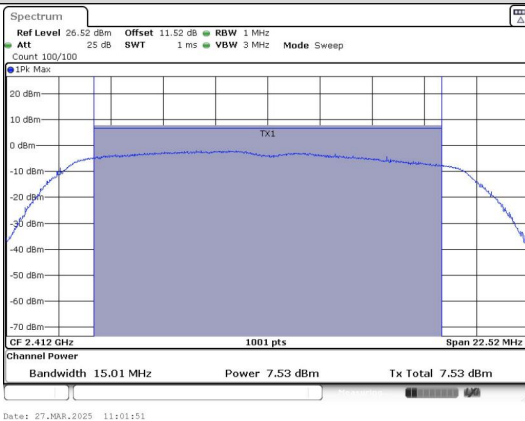
**Conducted Output Power
IEEE 802.11b_Channel 11_Antenna 0**

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



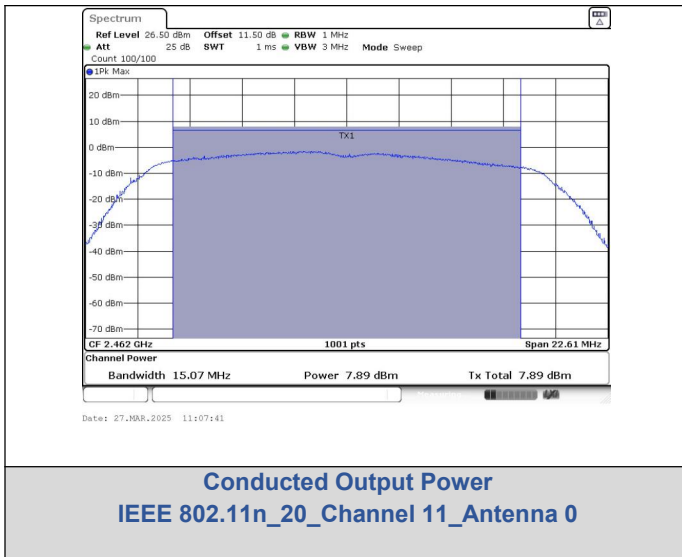
**Conducted Output Power
IEEE 802.11g_Channel 6_Antenna 0**

**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**

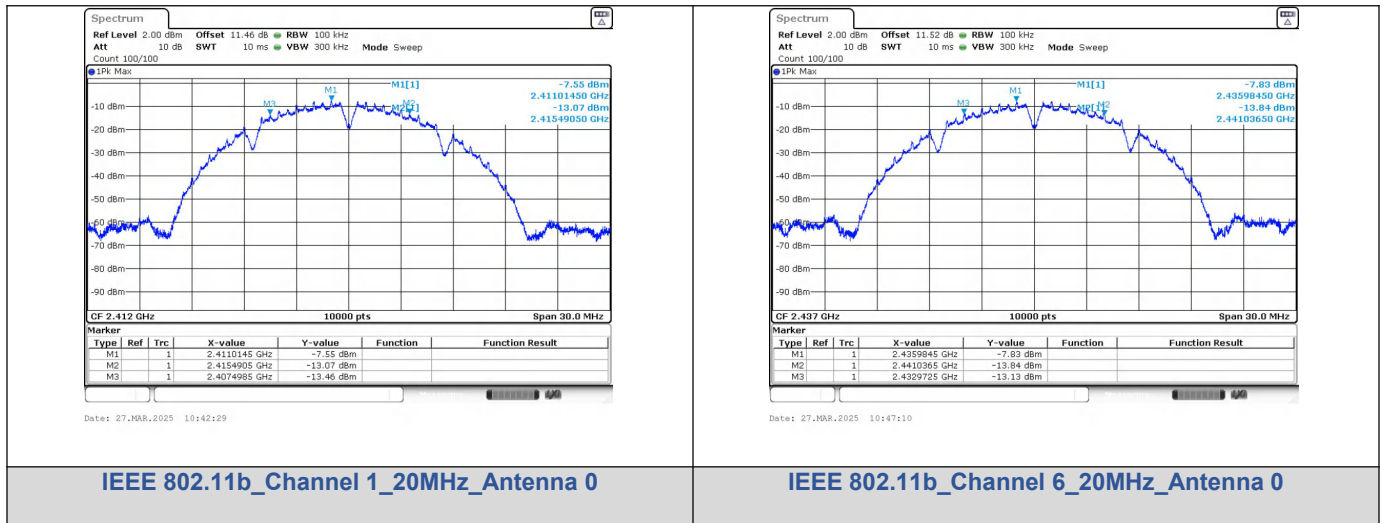


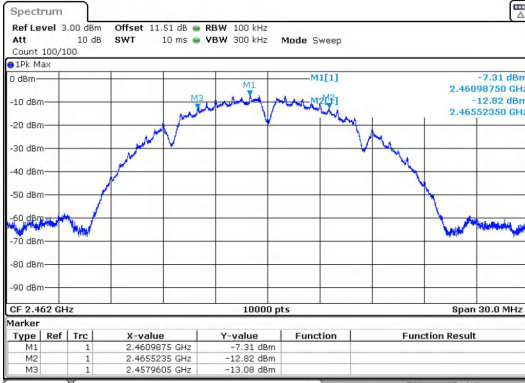
6dB Bandwidth

Test Result

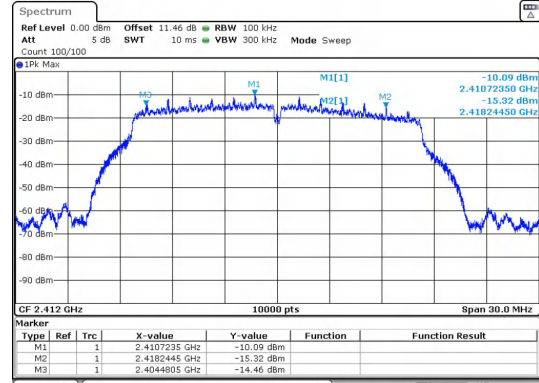
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	7.990	≥0.5	PASS
	6		2437	8.070		PASS
	11		2462	7.560		PASS
IEEE 802.11g	1		2412	13.76		PASS
	6		2437	15.25		PASS
	11		2462	15.01		PASS
IEEE 802.11n_20	1		2412	15.01		PASS
	6		2437	15.05		PASS
	11		2462	15.07		PASS

Test Graphs



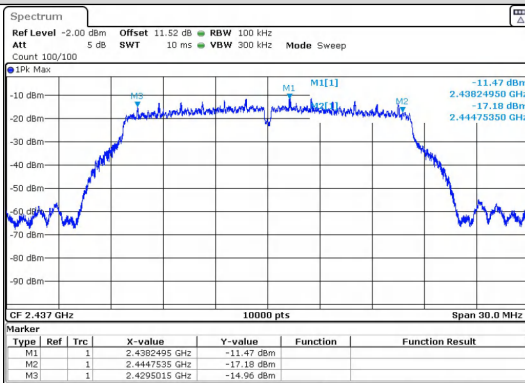


Date: 27.MAR.2025 10:50:00



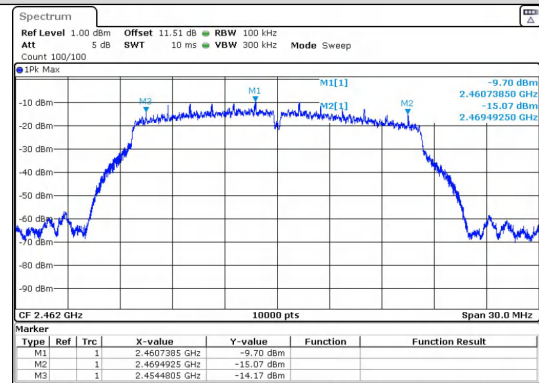
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IEEE 802.11b_Channel 11_20MHz_Antenna 0



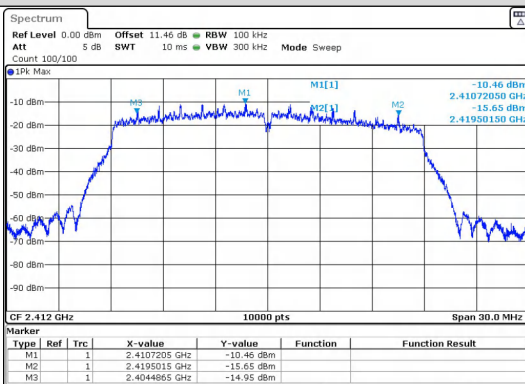
Date: 27.MAR.2025 10:55:51

IEEE 802.11g_Channel 1_20MHz_Antenna 0



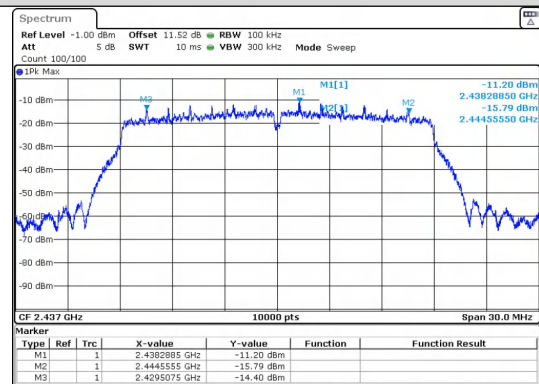
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IEEE 802.11g_Channel 6_20MHz_Antenna 0



Date: 27.MAR.2025 11:01:31

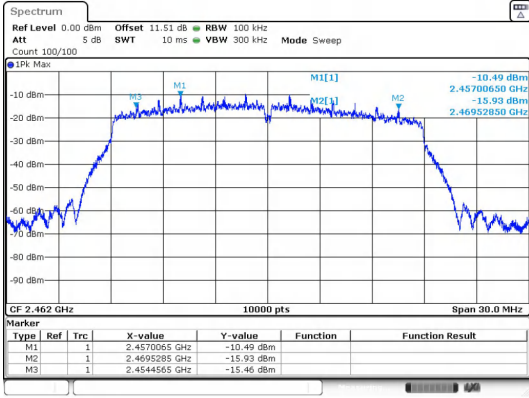
IEEE 802.11g_Channel 11_20MHz_Antenna 0



Date: 27.MAR.2025 11:04:51

IEEE 802.11n_Channel 1_20MHz_Antenna 0

IEEE 802.11n_Channel 6_20MHz_Antenna 0



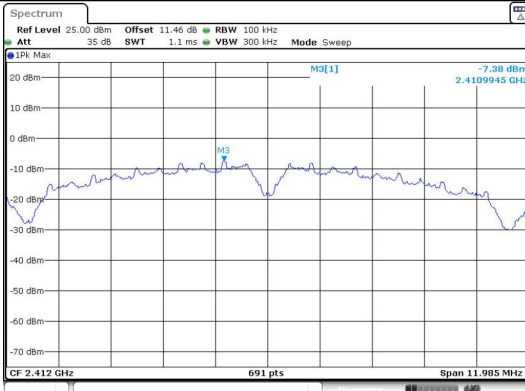
IEEE 802.11n_Channel 11_20MHz_Antenna 0

Conducted Out Of Band Emission

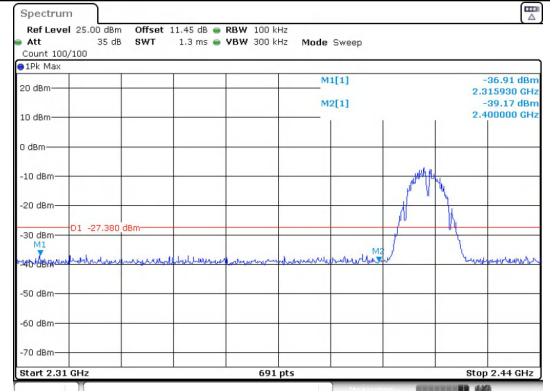
Test Result

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2315.93	-36.906	-27.38	-9.526	PASS
			2400.00	-39.170	-27.38	-11.790	PASS
			5881.70	-43.309	-27.38	-15.929	PASS
	6		6003.24	-42.776	-27.82	-14.956	PASS
	11		2483.50	-38.450	-27.24	-11.210	PASS
			6815.60	-43.169	-27.24	-15.929	PASS
IEEE 802.11g	1		2388.17	-36.798	-30.91	-5.888	PASS
			2400.00	-38.690	-30.91	-7.780	PASS
			6989.60	-43.186	-30.91	-12.276	PASS
	6		6928.79	-43.421	-30.67	-12.751	PASS
	11		2483.50	-39.370	-29.38	-9.990	PASS
			22060.6	-43.296	-29.38	-13.916	PASS
IEEE 802.11n_20	1		2394.57	-36.424	-30.77	-5.654	PASS
			2400.00	-39.060	-30.77	-8.290	PASS
			6225.50	-42.766	-30.77	-11.996	PASS
	6		22020.7	-42.844	-31.04	-11.804	PASS
	11		2483.50	-38.380	-29.35	-9.030	PASS
			6918.81	-42.872	-29.35	-13.522	PASS

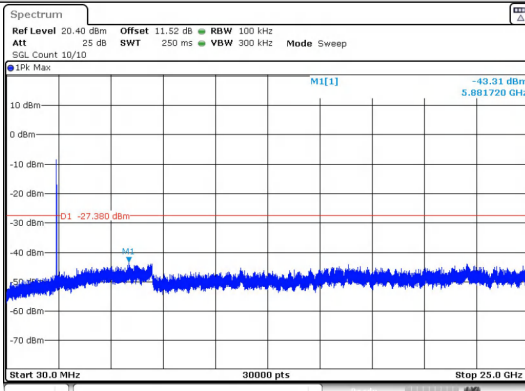
Test Graphs



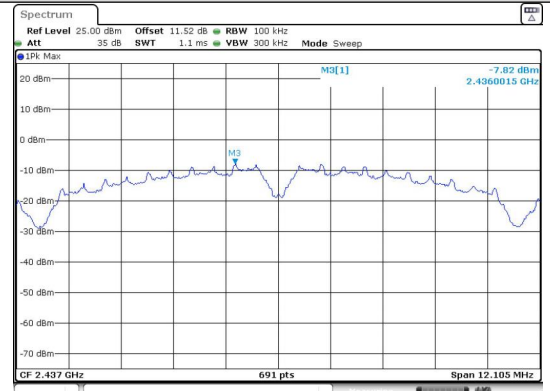
In-Band Reference Level
IEEE 802.11b_Channel 1_20MHz_Antenna 0



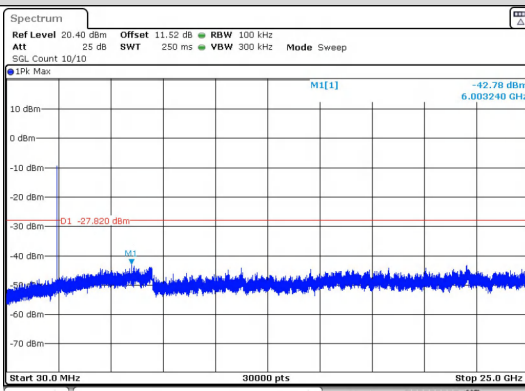
Out Of Band Emission
IEEE 802.11b_Channel 1_20MHz_Antenna 0



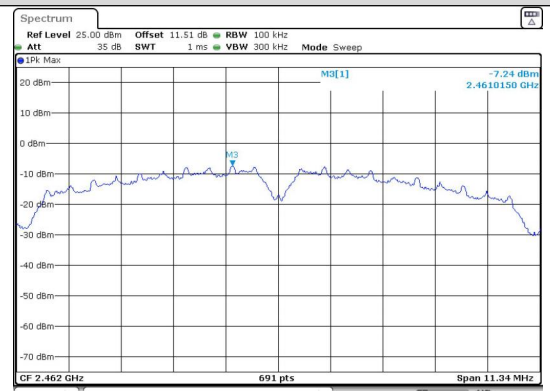
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 1_20MHz_Antenna 0



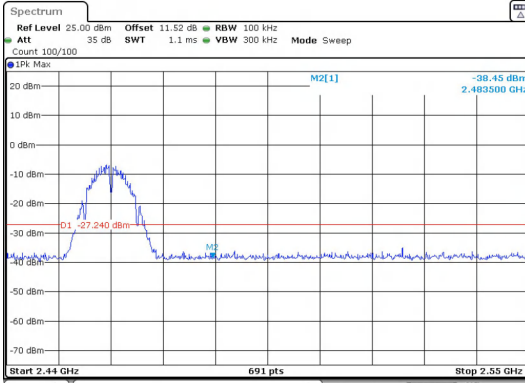
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IEEE 802.11b_Channel 6_20MHz_Antenna 0



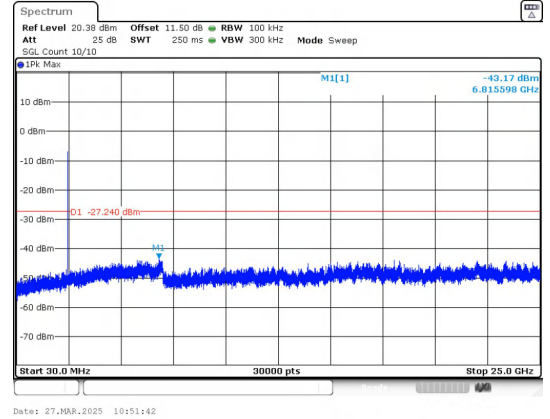
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 6_20MHz_Antenna 0



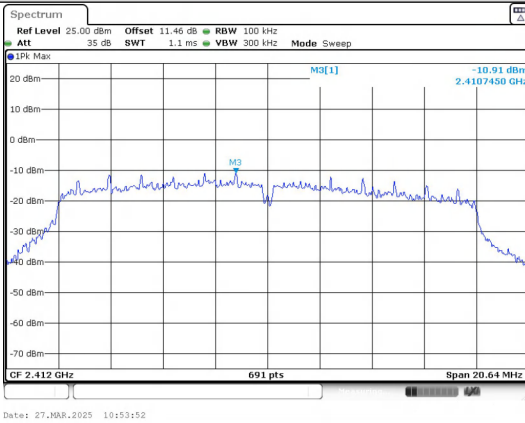
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IEEE 802.11b_Channel 11_20MHz_Antenna 0



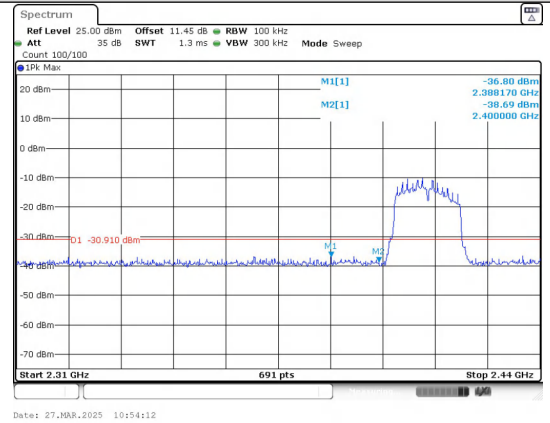
Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0



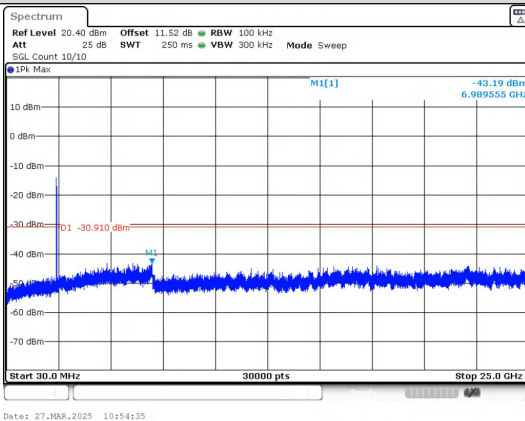
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 0



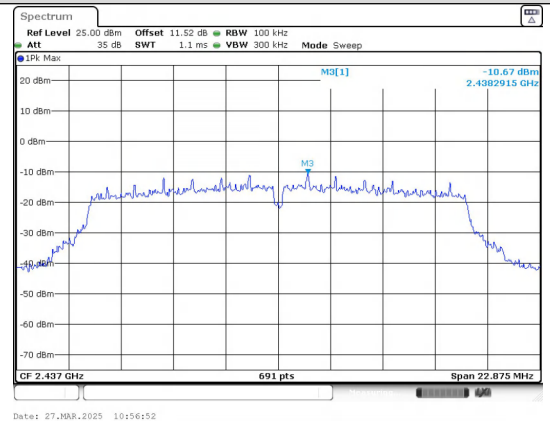
In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0



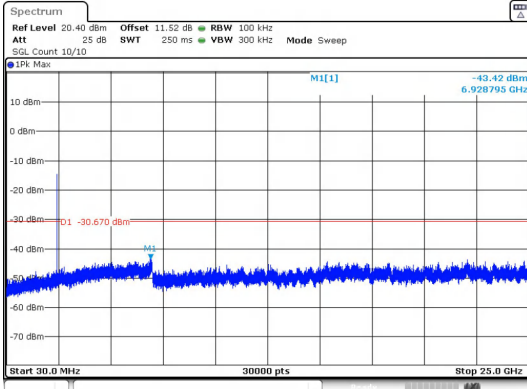
Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



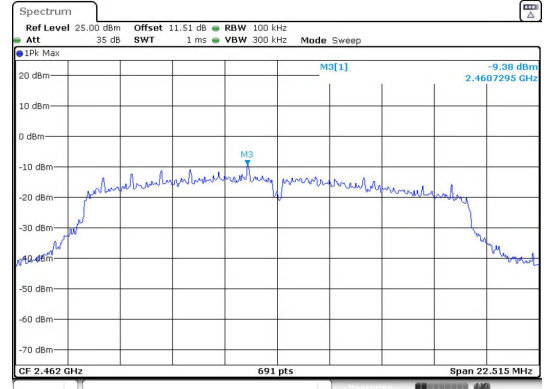
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 1_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0



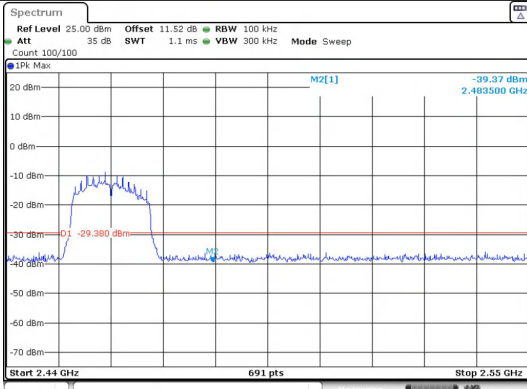
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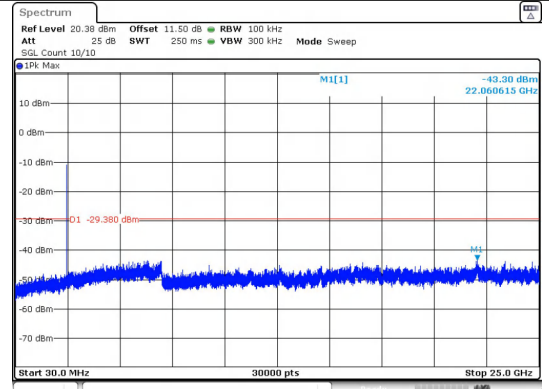
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30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 6_20MHz_Antenna 0

In-Band Reference Level
IEEE 802.11g_Channel 11_20MHz_Antenna 0



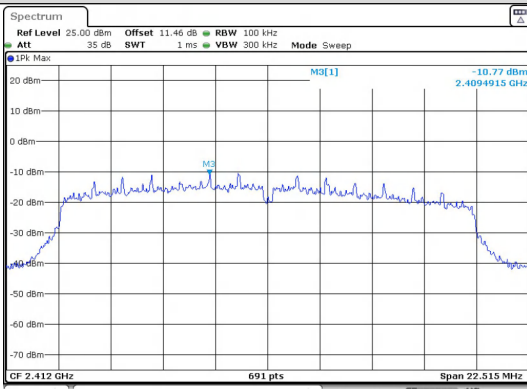
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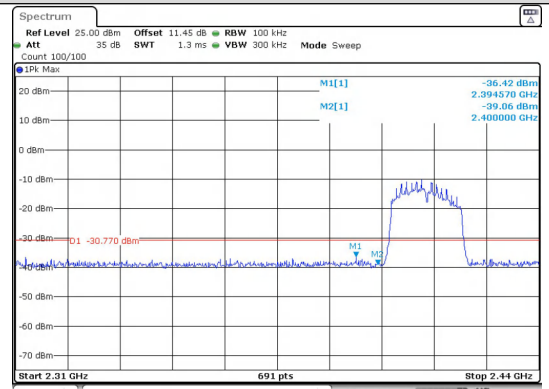
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Out Of Band Emission
IEEE 802.11g_Channel 11_20MHz_Antenna 0

30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 11_20MHz_Antenna 0



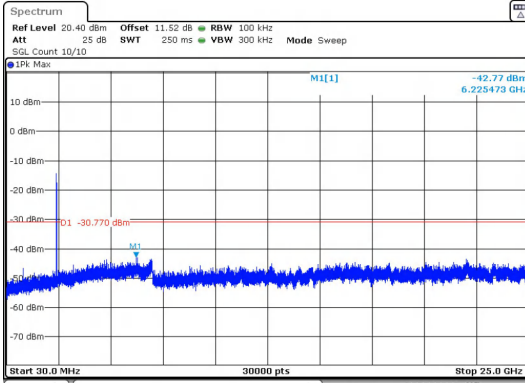
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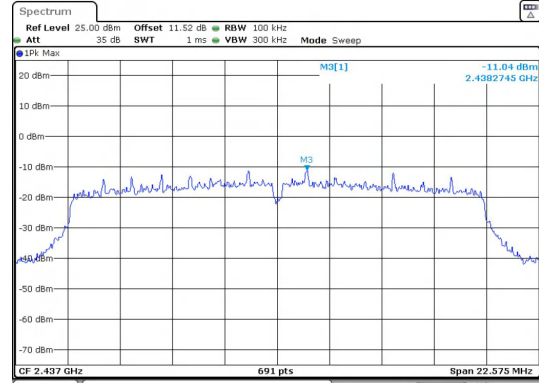
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In-Band Reference Level
IEEE 802.11n_Channel 1_20MHz_Antenna 0

Out Of Band Emission
IEEE 802.11n_Channel 1_20MHz_Antenna 0



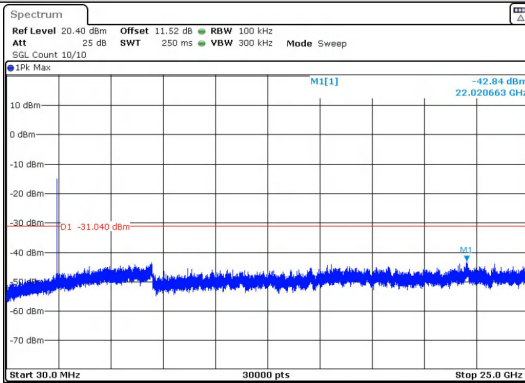
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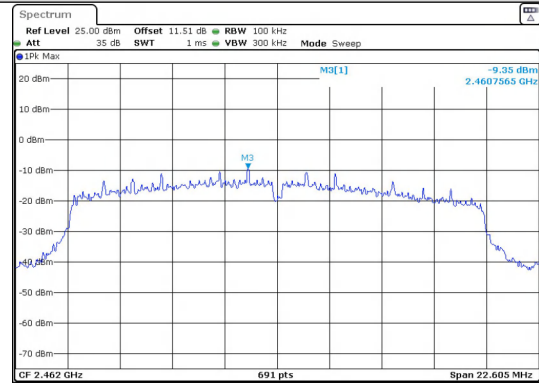
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30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 1_20MHz_Antenna 0

In-Band Reference Level
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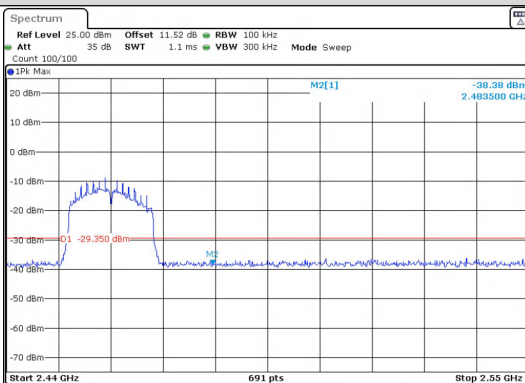
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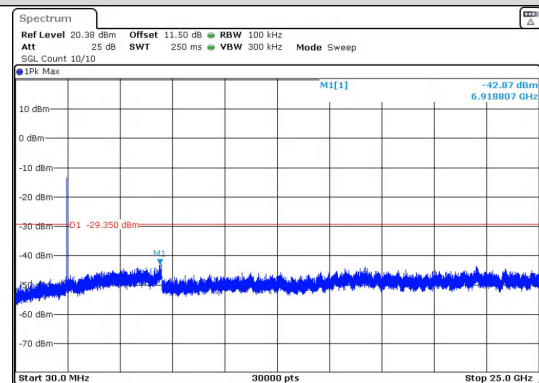
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30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_20MHz_Antenna 0

In-Band Reference Level
IEEE 802.11n_Channel 11_20MHz_Antenna 0



Date: 27.MAR.2025 11:09:41



Date: 27.MAR.2025 11:09:04

Out Of Band Emission
IEEE 802.11n_Channel 11_20MHz_Antenna 0

30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 11_20MHz_Antenna 0

-----End of the report-----