

Appendix Report

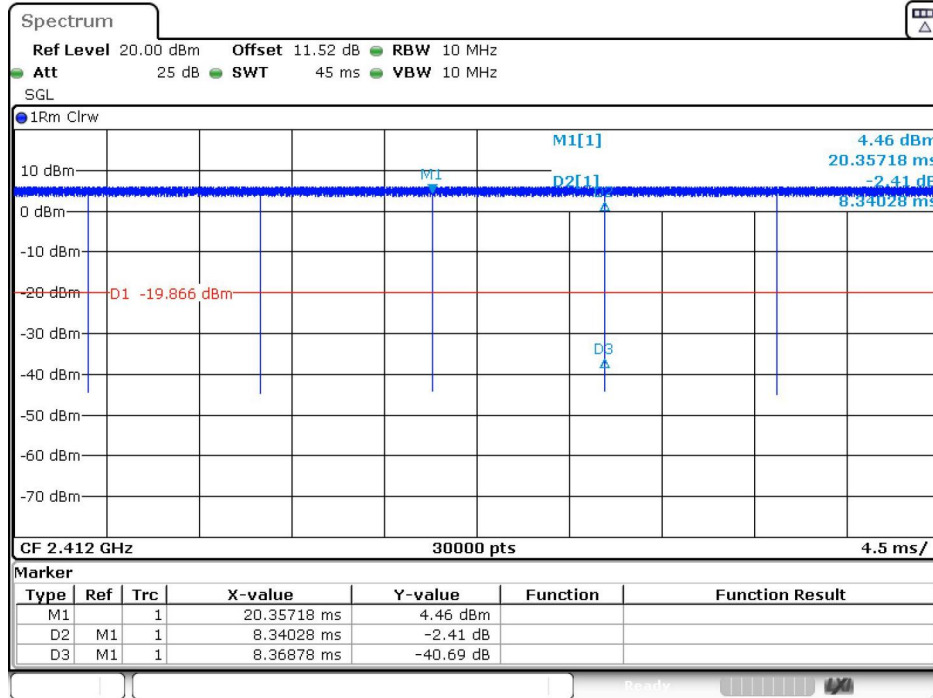
Report No.:	CISRR25010703102
Test Engineer:	Mark Fu
Supervised by:	Rory Huang

Duty Cycle

Test Result

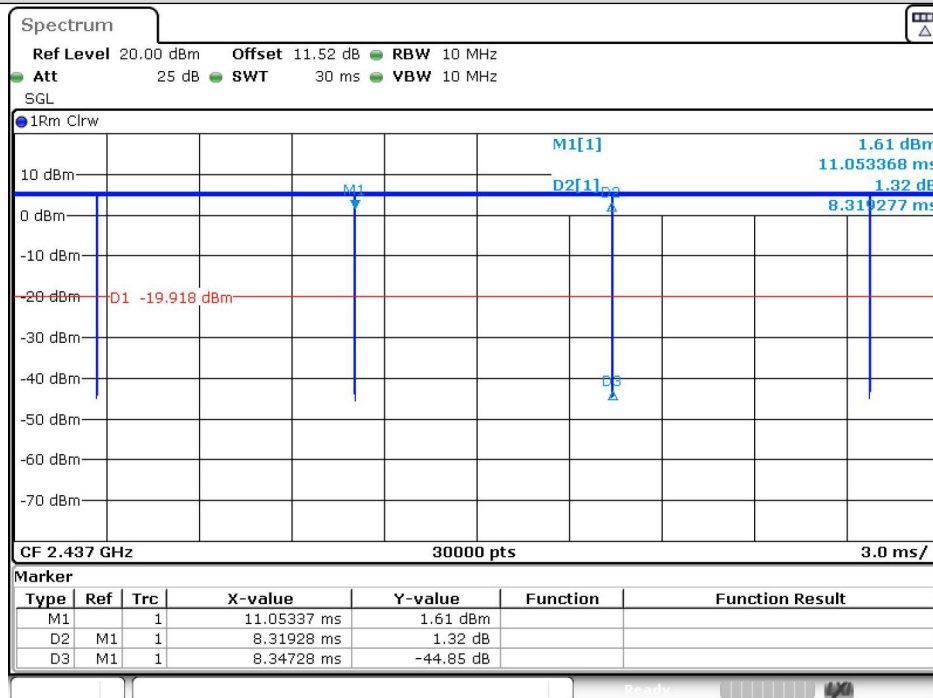
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11b	1	1	1	8.340	8.369	99.66	0.9966	0.0148	0.1199
		6		8.319	8.347	99.66	0.9966	0.0148	0.1202
		11		8.319	8.347	99.66	0.9966	0.0148	0.1202
IEEE 802.11g		1		1.384	1.418	97.60	0.9760	0.1055	0.7225
		6		1.395	1.429	97.62	0.9762	0.1046	0.7168
		11		1.396	1.430	97.62	0.9762	0.1046	0.7163
IEEE 802.11n_20	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		1.293	1.327	97.44	0.9744	0.1126	0.7734
IEEE 802.11n_40		3		0.650	0.684	94.94	0.9494	0.2255	1.5385
		6		0.650	0.684	94.94	0.9494	0.2255	1.5385
		9		0.650	0.684	94.94	0.9494	0.2255	1.5385

Test Graphs



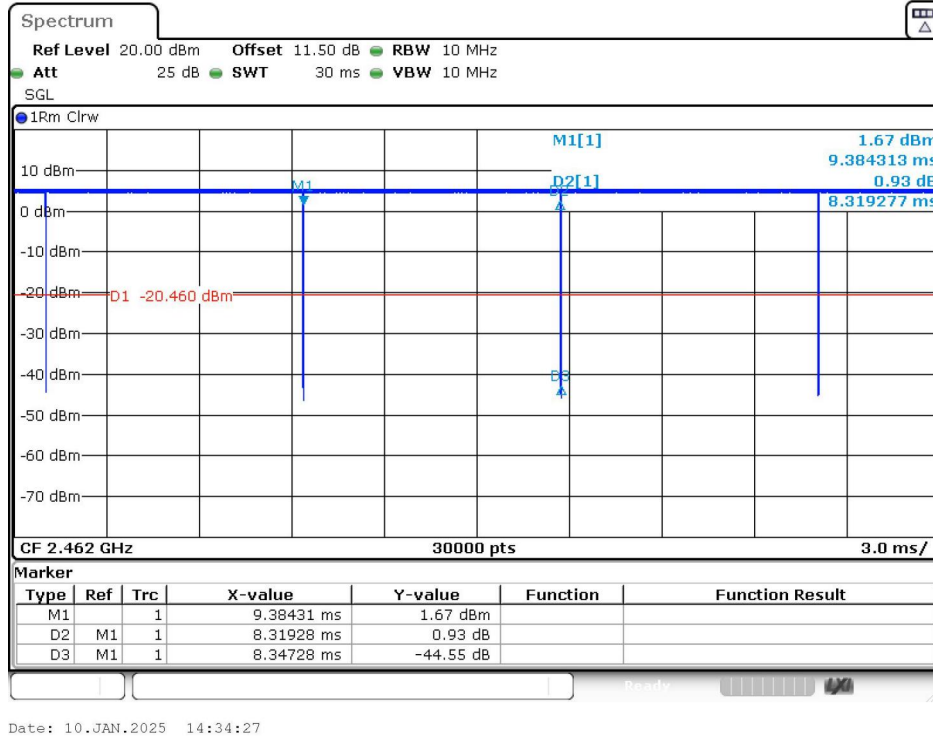
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IEEE 802.11b_20MHz_Channel 1

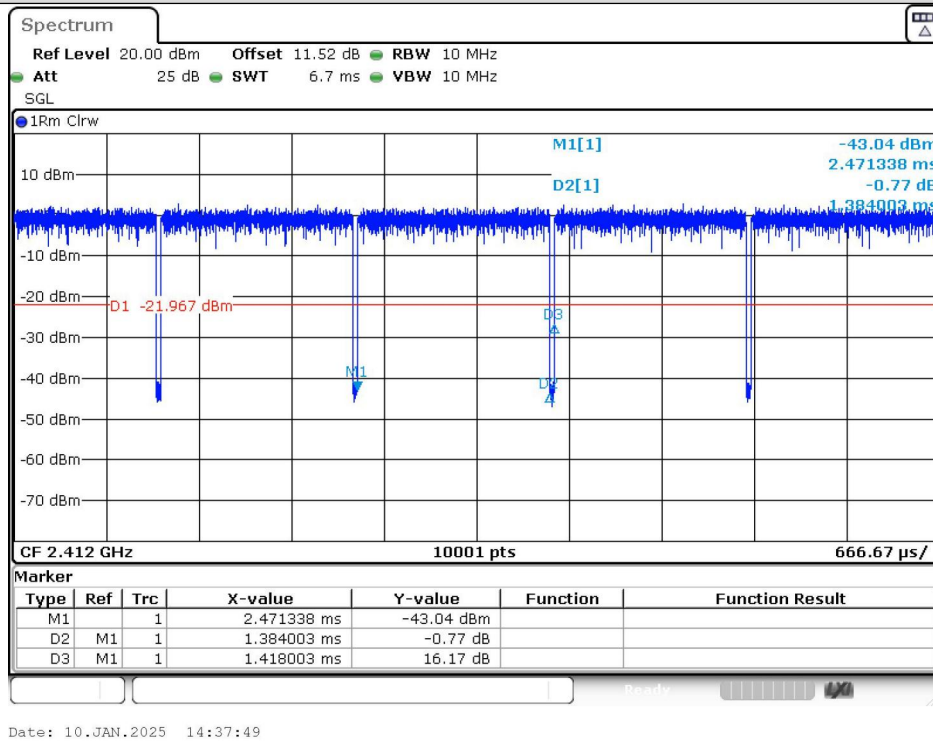


Date: 10.JAN.2025 14:30:30

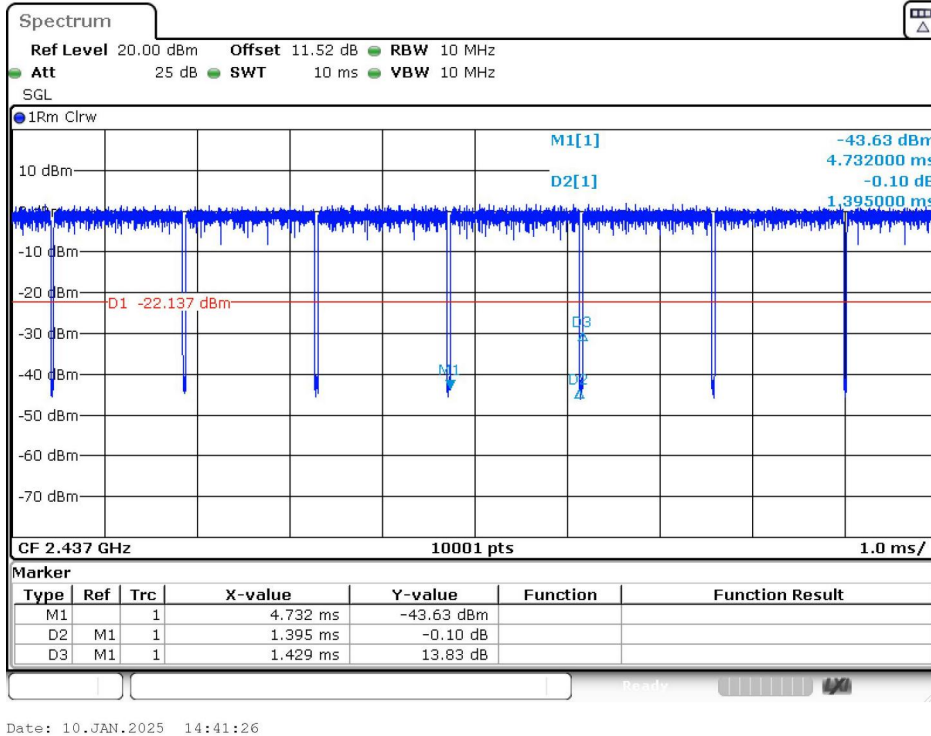
IEEE 802.11b_20MHz_Channel 6



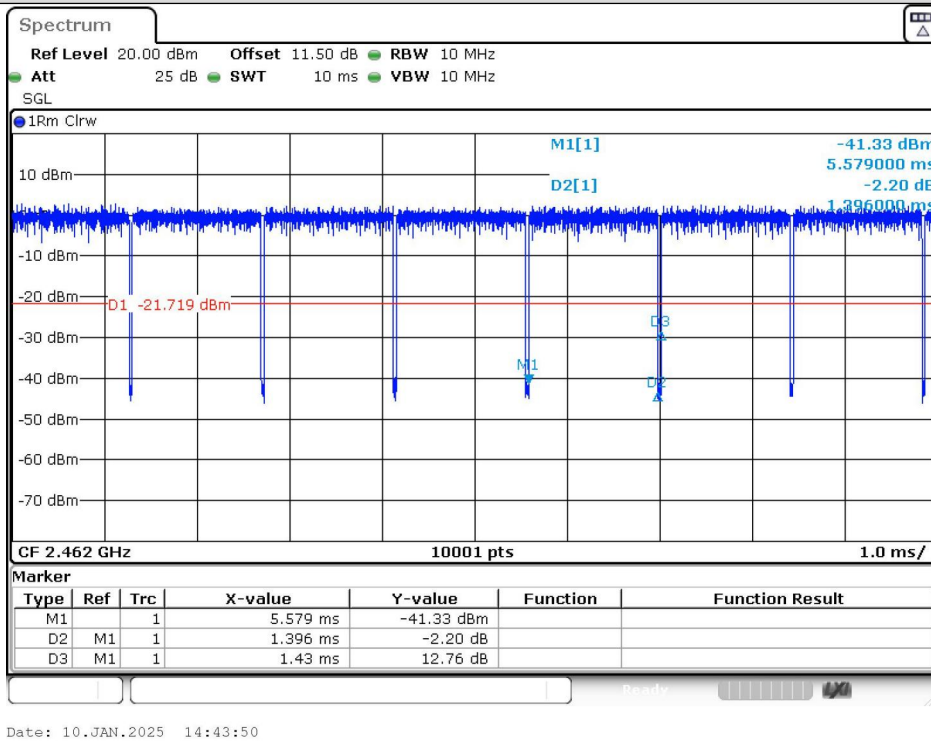
IEEE 802.11b_20MHz_Channel 11



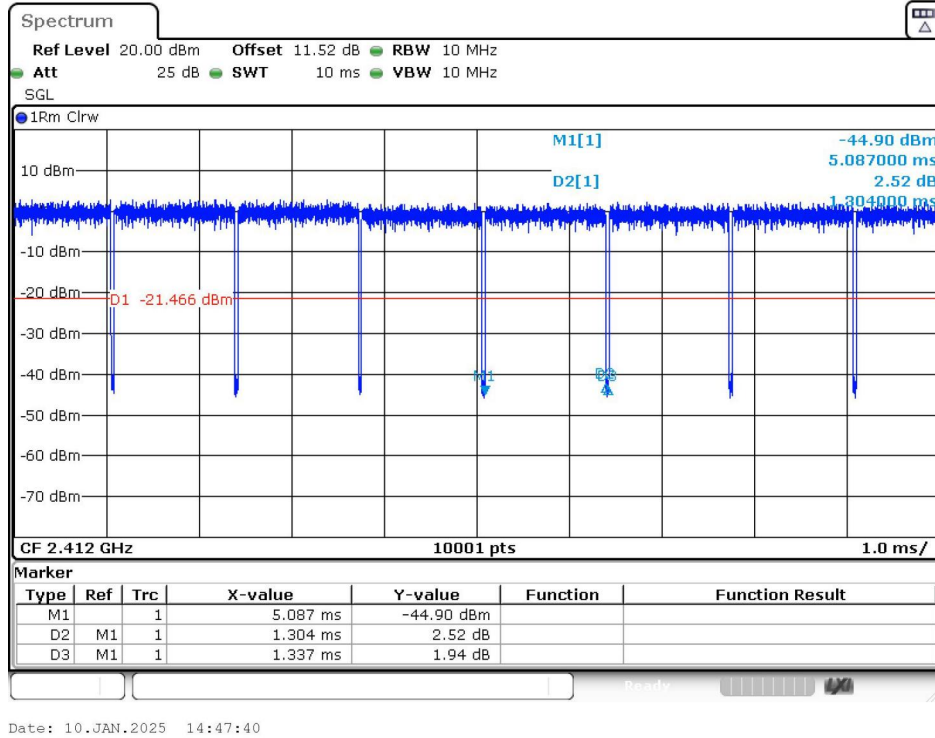
IEEE 802.11g_20MHz_Channel 1



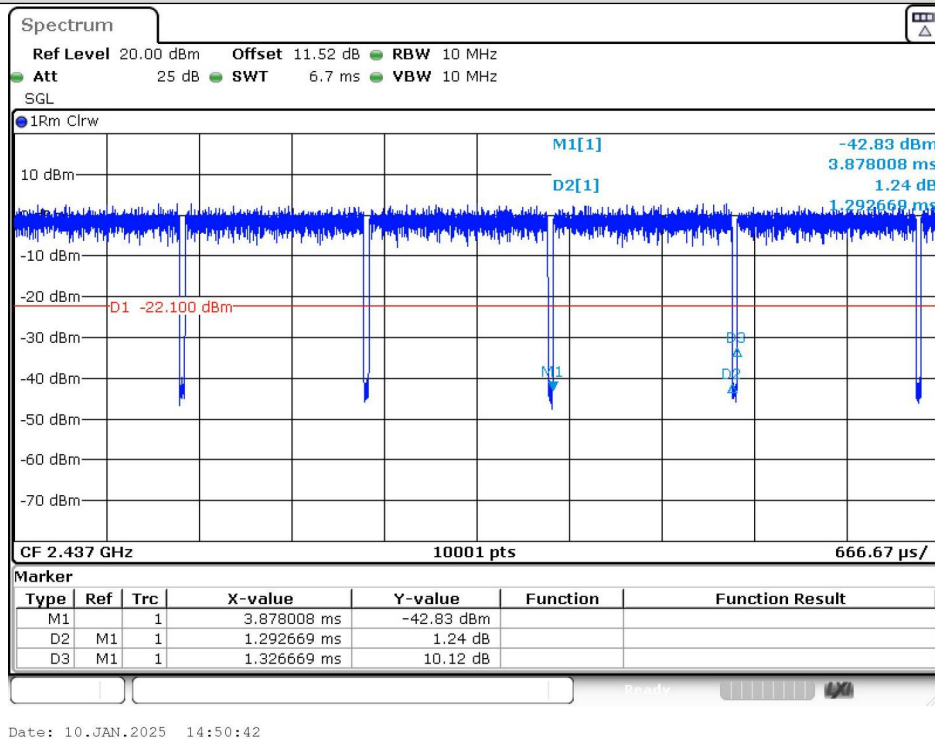
IEEE 802.11g_20MHz_Channel 6



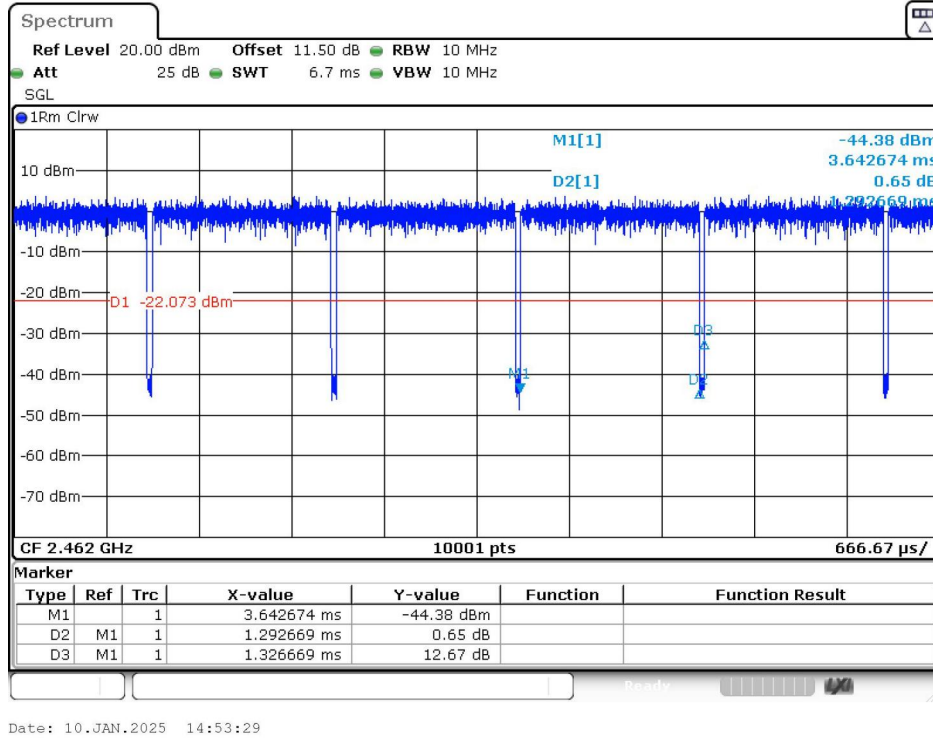
IEEE 802.11g_20MHz_Channel 11



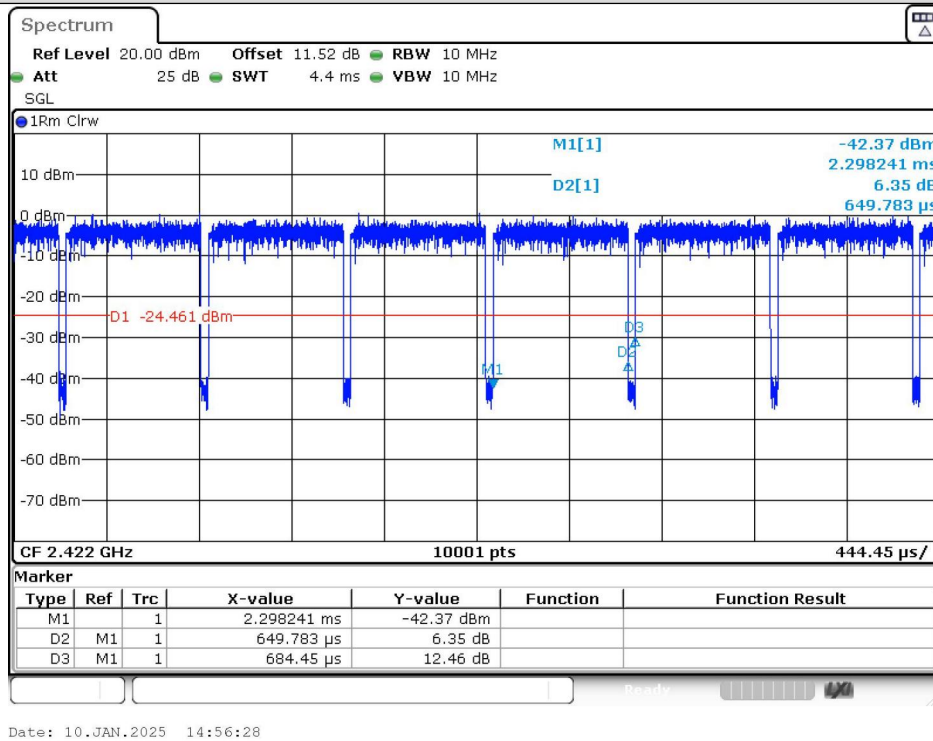
IEEE 802.11n_20MHz_Channel 1



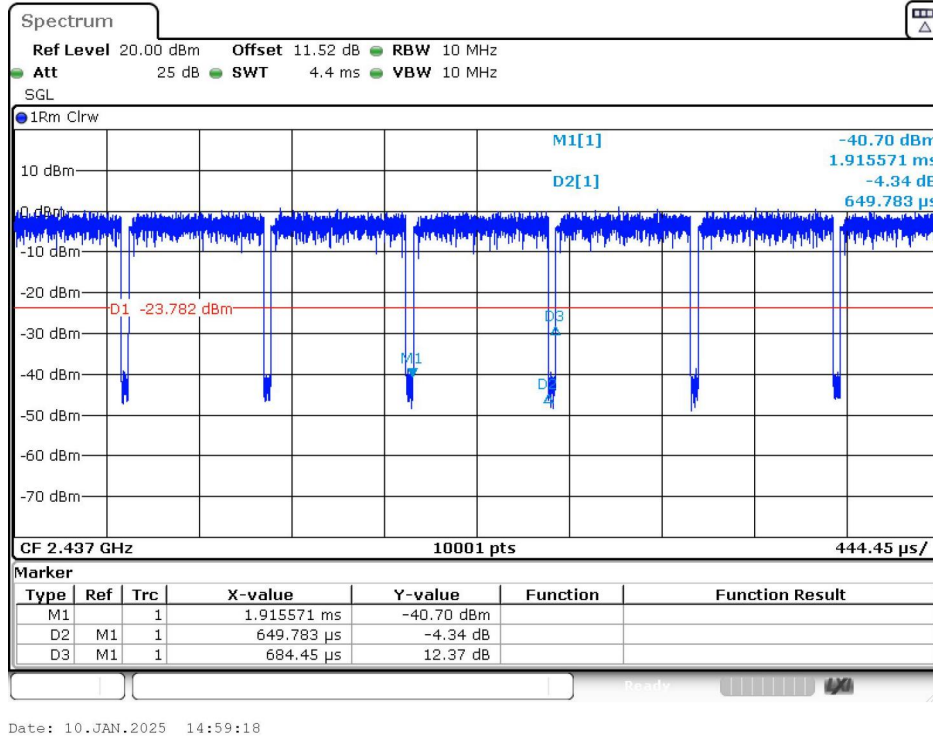
IEEE 802.11n_20MHz_Channel 6



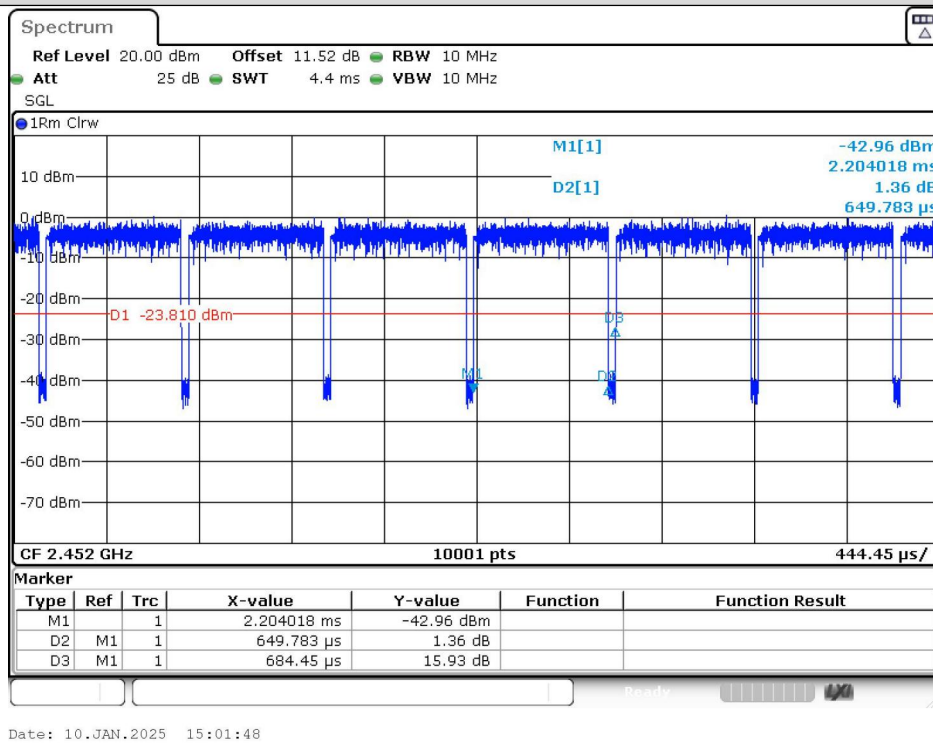
IEEE 802.11n_20MHz_Channel 11



IEEE 802.11n_40MHz_Channel 3



IEEE 802.11n_40MHz_Channel 6



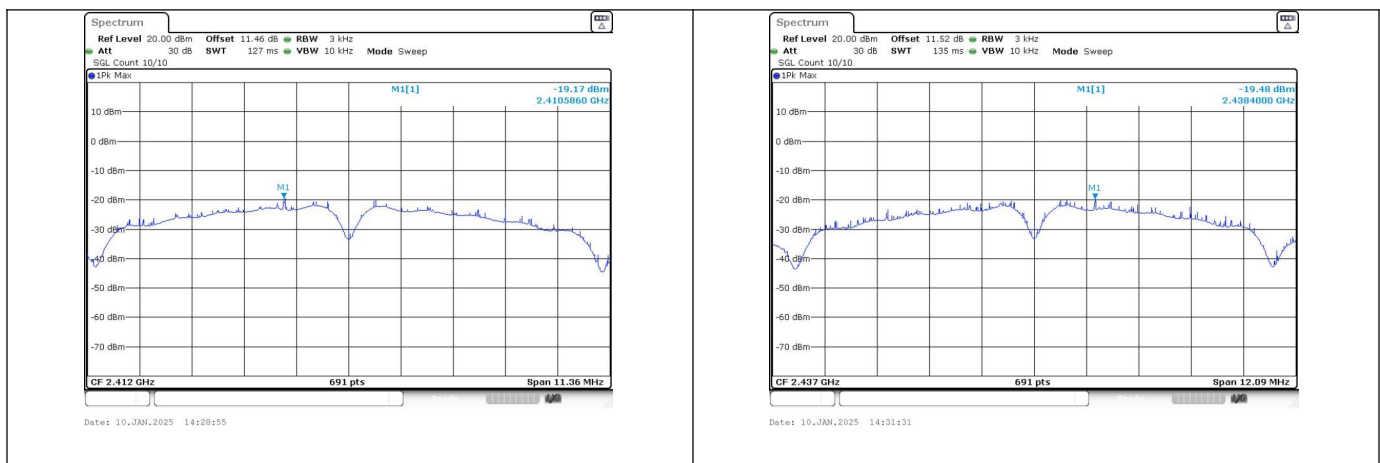
IEEE 802.11n_40MHz_Channel 9

Power Spectral Density

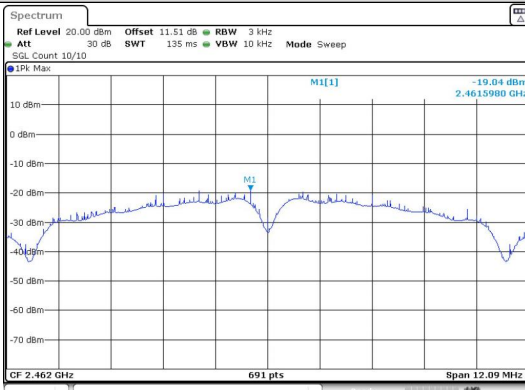
Test Result

Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-19.170	≤8	PASS
	6	-19.480		PASS
	11	-19.040		PASS
IEEE 802.11g	1	-24.730		PASS
	6	-25.930		PASS
	11	-25.490		PASS
IEEE 802.11n_20	1	-25.260		PASS
	6	-24.980		PASS
	11	-25.770		PASS
IEEE 802.11n_40	3	-27.940		PASS
	6	-27.530		PASS
	9	-27.020		PASS

Test Graphs

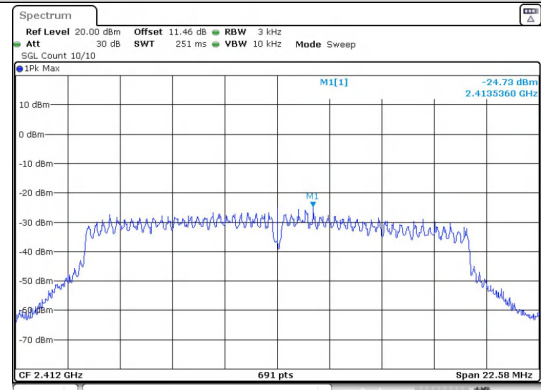


IEEE 802.11b_Channel 1_20MHz_Antenna 0



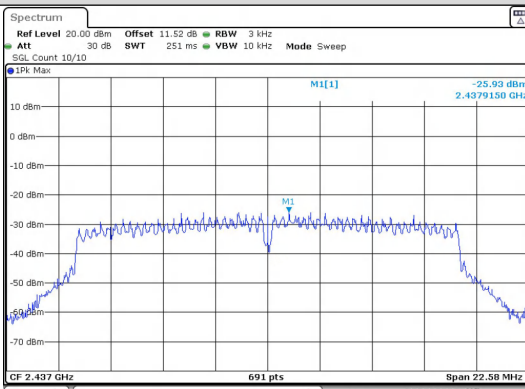
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IEEE 802.11b_Channel 6_20MHz_Antenna 0



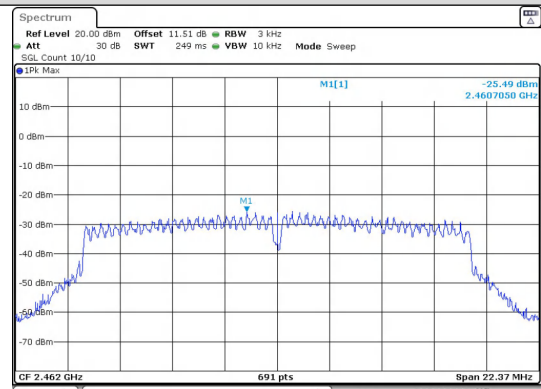
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IEEE 802.11b_Channel 11_20MHz_Antenna 0



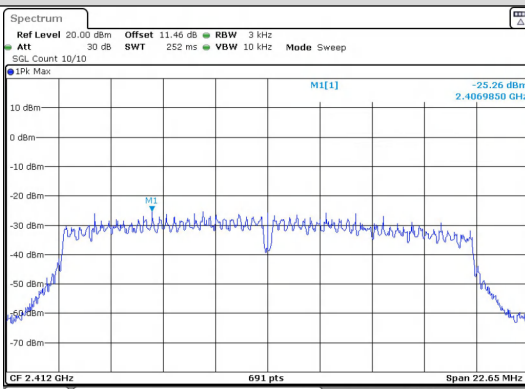
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IEEE 802.11g_Channel 1_20MHz_Antenna 0



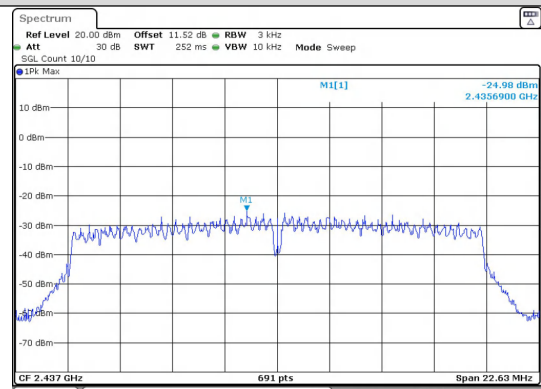
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IEEE 802.11g_Channel 6_20MHz_Antenna 0



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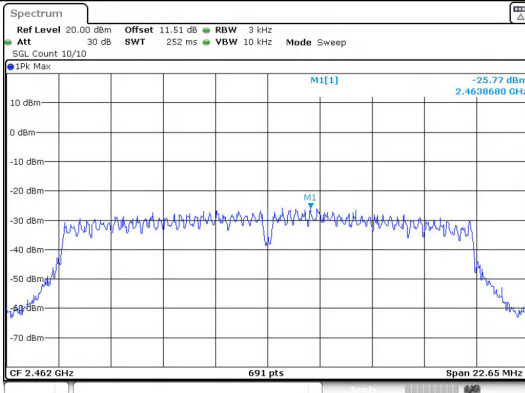
IEEE 802.11g_Channel 11_20MHz_Antenna 0



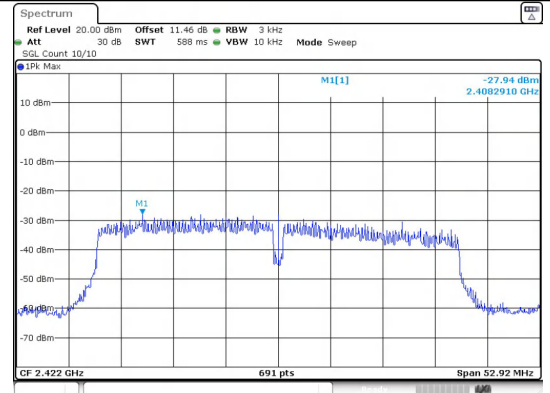
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IEEE 802.11n_Channel 1_20MHz_Antenna 0

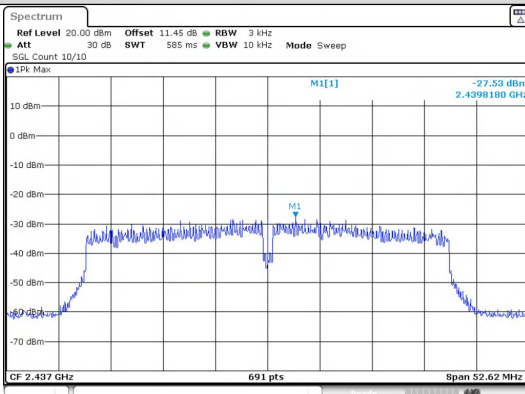
IEEE 802.11n_Channel 6_20MHz_Antenna 0



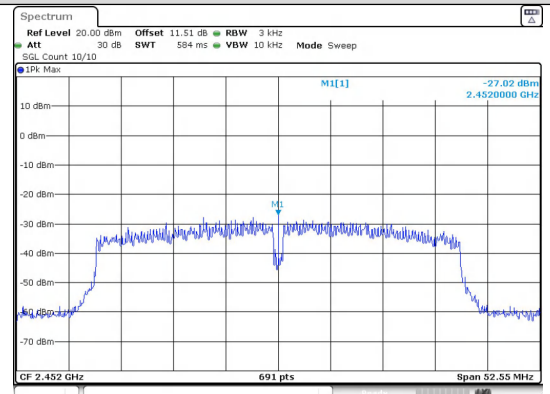
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0



IEEE 802.11n_Channel 9_40MHz_Antenna 0

Conducted Output Power

Test Result

Conducted Output Power

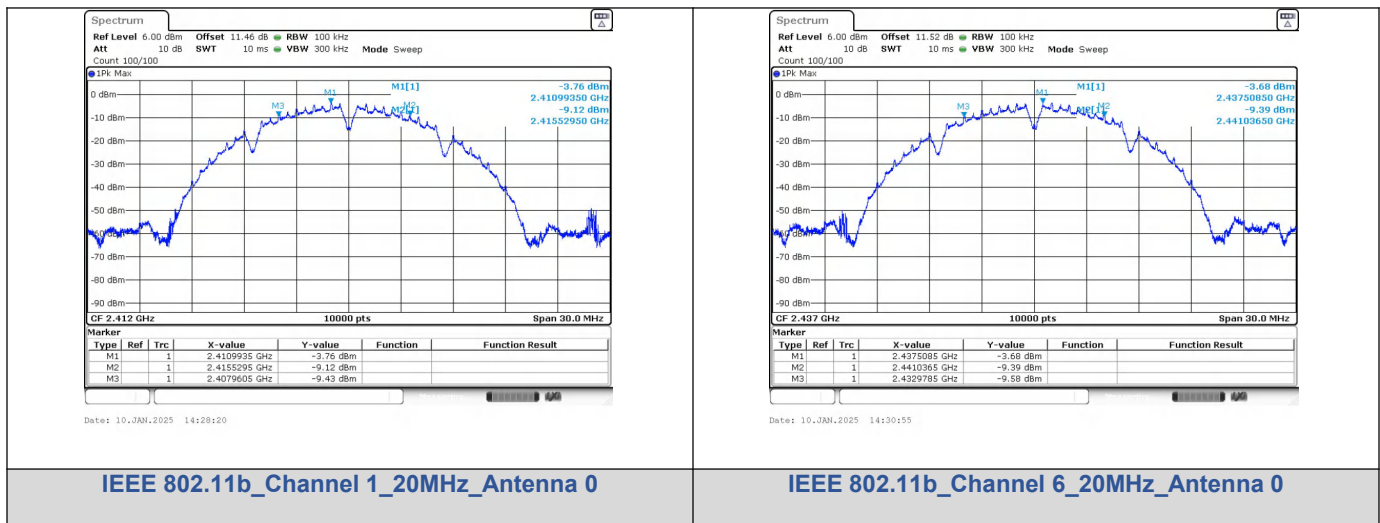
Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	8.24	≤30	PASS
	6	8.40	≤30	PASS
	11	8.47	≤30	PASS
IEEE 802.11g	1	8.41	≤30	PASS
	6	8.47	≤30	PASS
	11	8.04	≤30	PASS
IEEE 802.11n_20	1	8.59	≤30	PASS
	6	8.39	≤30	PASS
	11	8.88	≤30	PASS
IEEE 802.11n_40	3	8.44	≤30	PASS
	6	8.54	≤30	PASS
	9	8.65	≤30	PASS

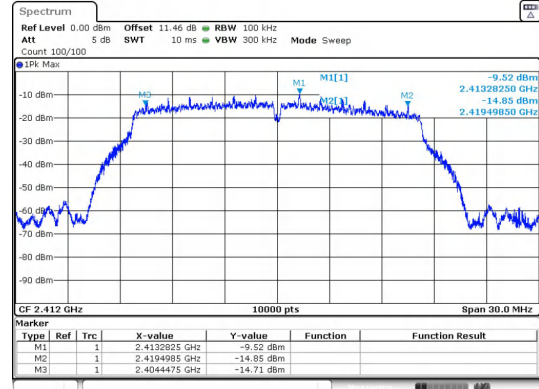
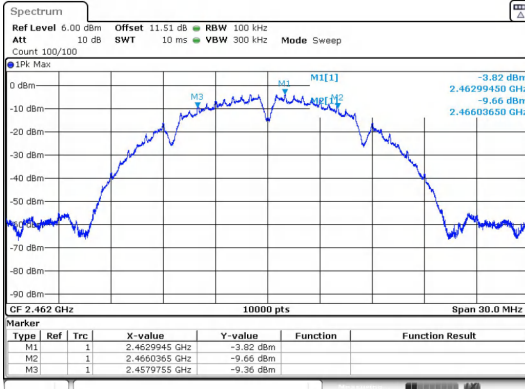
6dB Bandwidth

Test Result

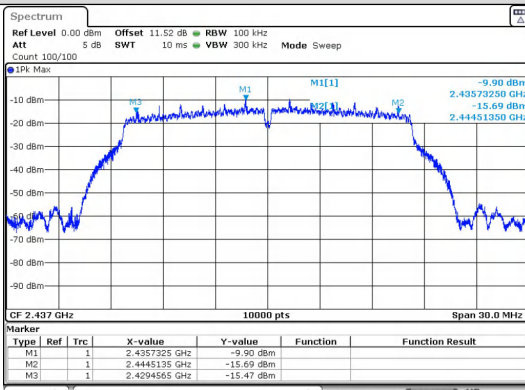
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	7.570	≥0.5	PASS
	6		2437	8.060		PASS
	11		2462	8.060		PASS
IEEE 802.11g	1		2412	15.05		PASS
	6		2437	15.05		PASS
	11		2462	14.91		PASS
IEEE 802.11n_20	1		2412	15.10		PASS
	6		2437	15.09		PASS
	11		2462	15.10		PASS
IEEE 802.11n_40	3		2422	35.28		PASS
	6		2437	35.08		PASS
	9		2452	35.03		PASS

Test Graphs

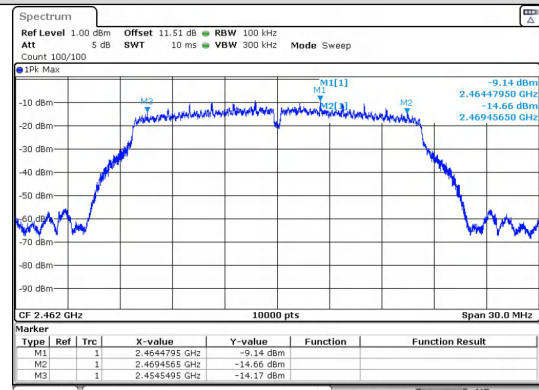




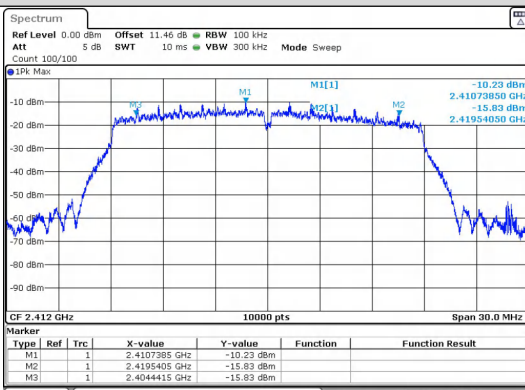
IEEE 802.11b_Channel 11_20MHz_Antenna 0



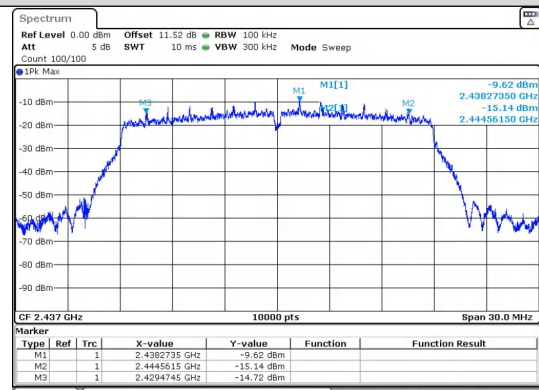
IEEE 802.11g_Channel 1_20MHz_Antenna 0



IEEE 802.11g_Channel 6_20MHz_Antenna 0

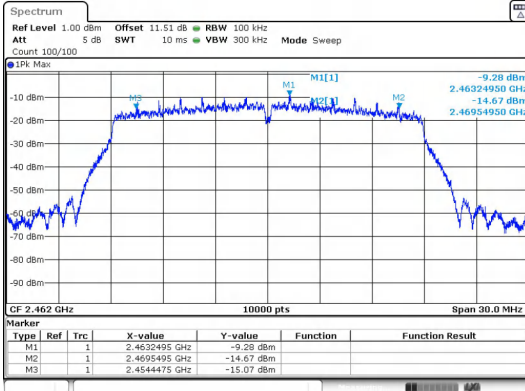


IEEE 802.11g_Channel 11_20MHz_Antenna 0

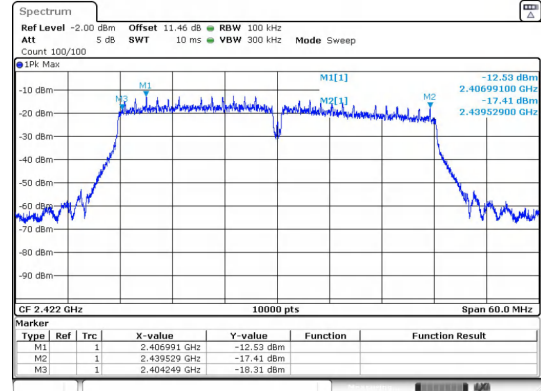


IEEE 802.11n_Channel 1_20MHz_Antenna 0

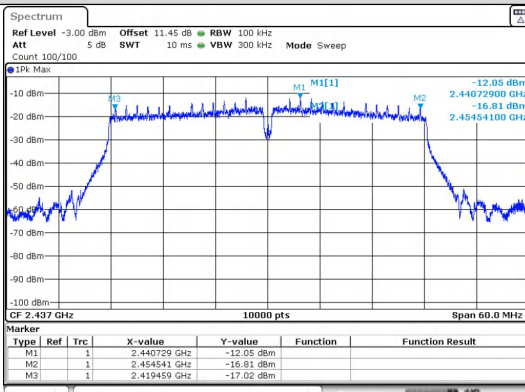
IEEE 802.11n_Channel 6_20MHz_Antenna 0



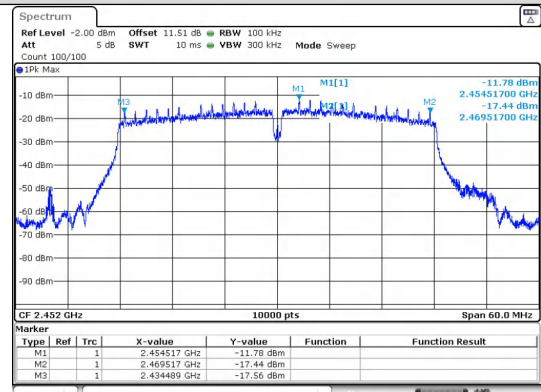
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0



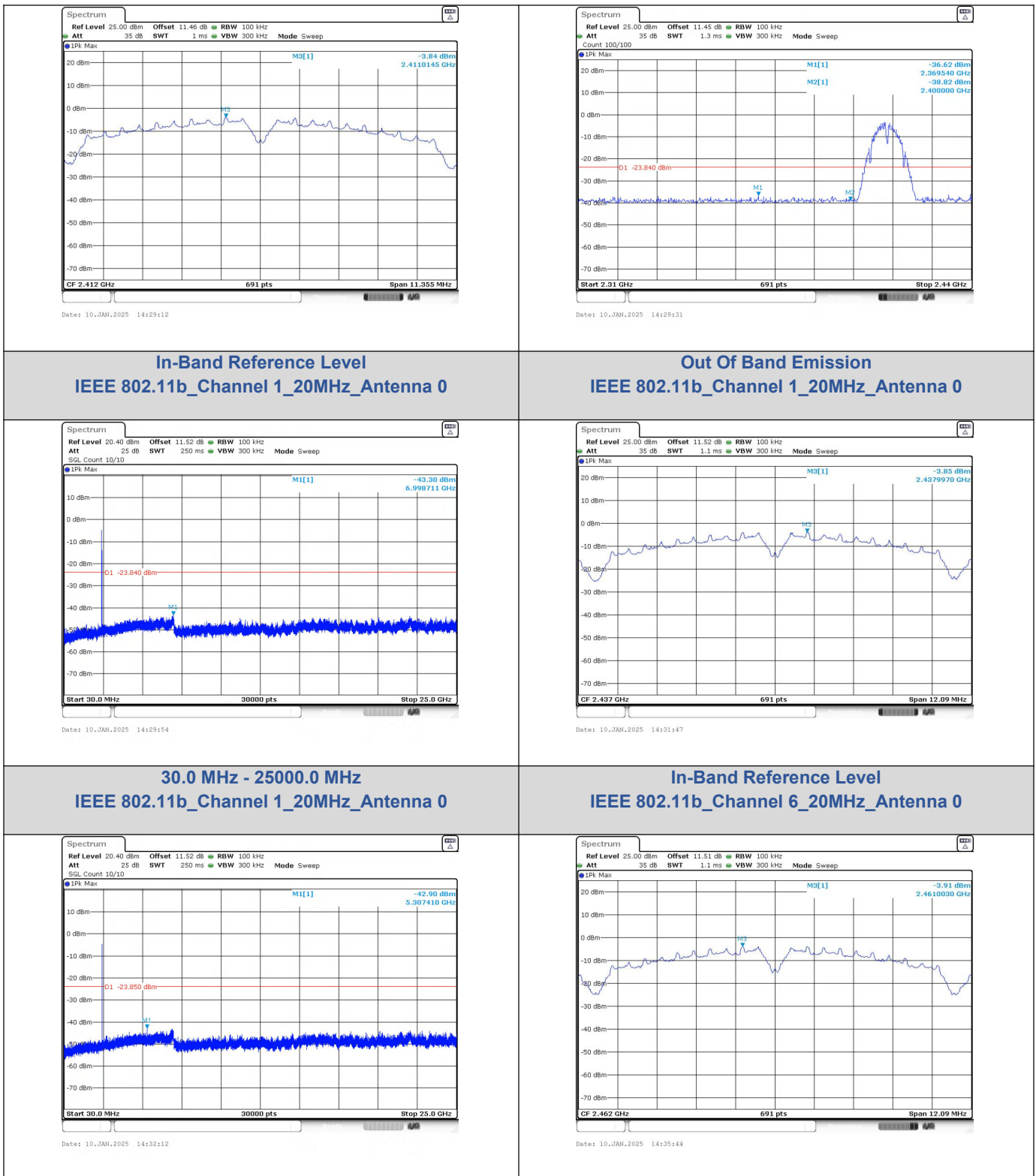
IEEE 802.11n_Channel 9_40MHz_Antenna 0

Conducted Out Of Band Emission

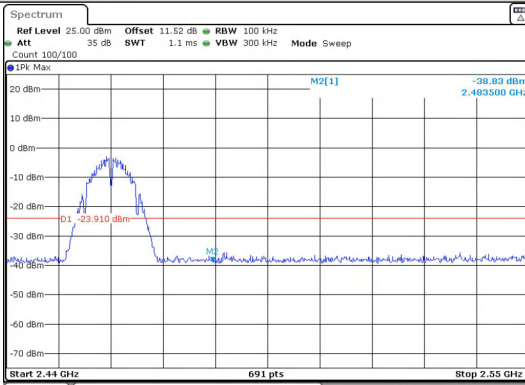
Test Result

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2369.54	-36.621	-23.84	-12.781	PASS
			2400.00	-38.820	-23.84	-14.980	PASS
			6998.70	-43.302	-23.84	-19.462	PASS
	6		5307.41	-42.900	-23.85	-19.050	PASS
	11		2483.50	-38.830	-23.91	-14.920	PASS
			6271.25	-43.248	-23.91	-19.338	PASS
IEEE 802.11g	1		2394.00	-36.969	-28.75	-8.219	PASS
			2400.00	-38.080	-28.75	-9.330	PASS
			6927.10	-42.259	-28.75	-13.509	PASS
	6		6932.12	-42.128	-29.79	-12.338	PASS
	11		2483.50	-37.610	-29.71	-7.900	PASS
			6302.05	-43.204	-29.71	-13.494	PASS
IEEE 802.11n_20	1		2342.26	-36.908	-29.36	-7.548	PASS
			2400.00	-38.570	-29.36	-9.210	PASS
			6933.80	-42.505	-29.36	-13.145	PASS
	6		6957.09	-43.308	-29.55	-13.758	PASS
	11		2483.50	-37.290	-30.77	-6.520	PASS
			6101.46	-43.051	-30.77	-12.281	PASS
IEEE 802.11n_40	3		2350.73	-36.331	-32.34	-3.991	PASS
			2400.00	-39.350	-32.34	-7.010	PASS
			6928.80	-43.405	-32.34	-11.065	PASS
	6		21485.5	-43.011	-32.08	-10.931	PASS
	9		2483.50	-37.230	-31.81	-5.420	PASS
			6166.38	-43.537	-31.81	-11.727	PASS

Test Graphs

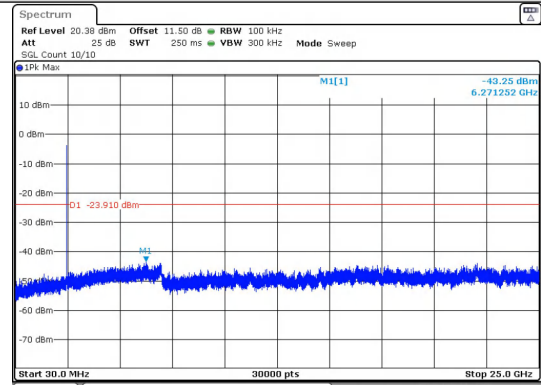


30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 6_20MHz_Antenna 0



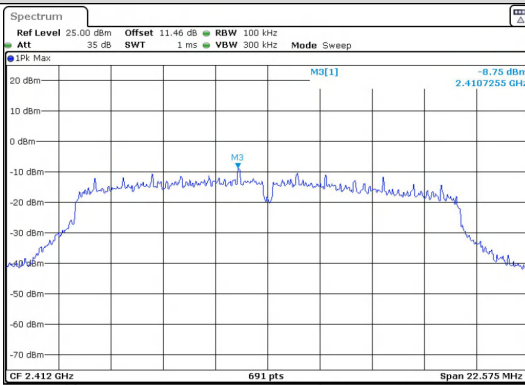
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In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0



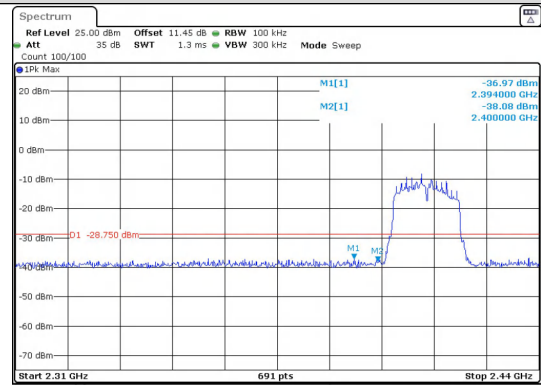
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Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0



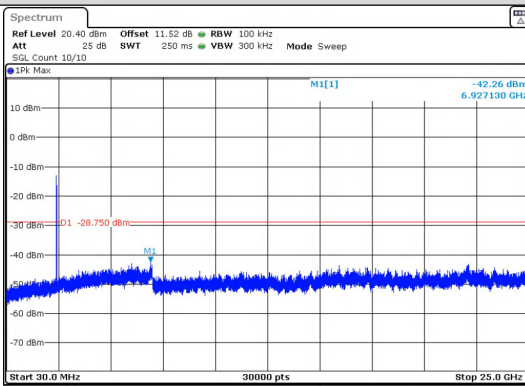
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30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 0



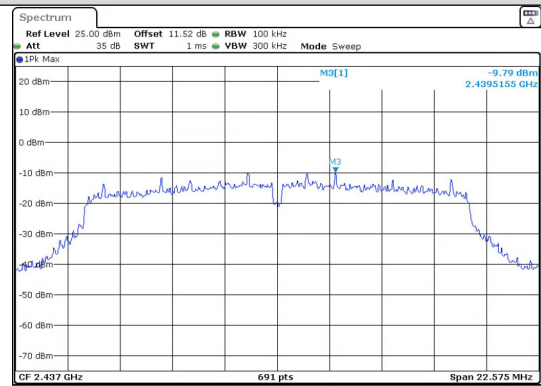
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In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0



Date: 10.JAN.2025 14:39:49

Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0

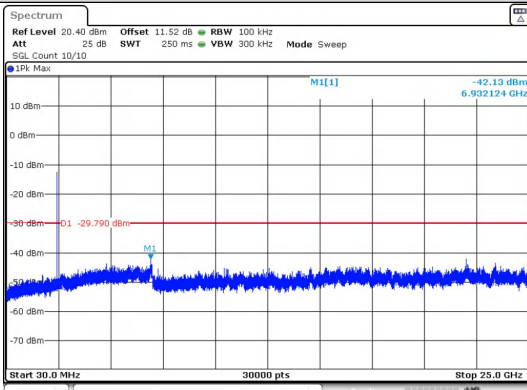


Date: 10.JAN.2025 14:42:44

30.0 MHz - 25000.0 MHz

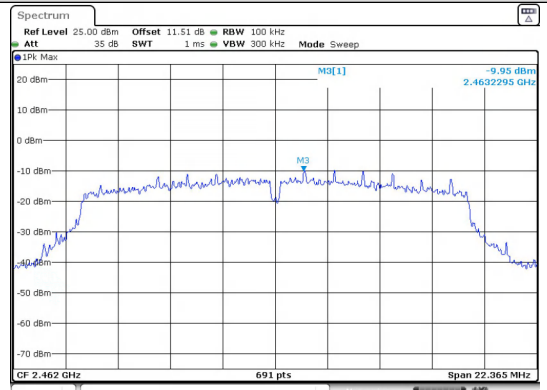
In-Band Reference Level

IEEE 802.11g_Channel 1_20MHz_Antenna 0



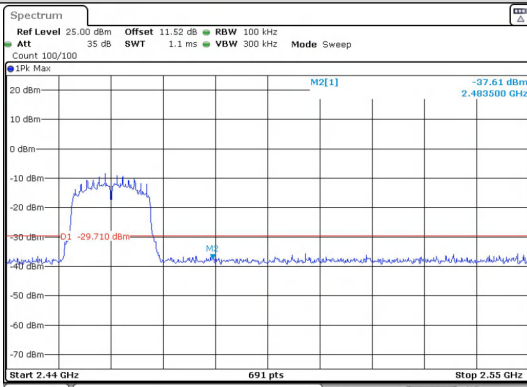
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IEEE 802.11g_Channel 6_20MHz_Antenna 0



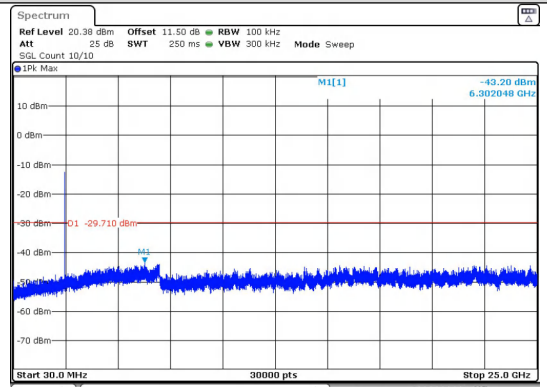
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30.0 MHz - 25000.0 MHz IEEE 802.11g_Channel 6_20MHz_Antenna 0



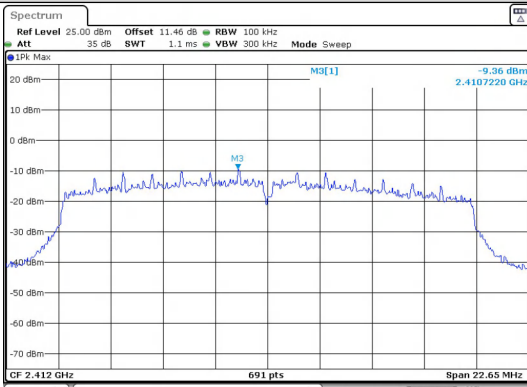
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In-Band Reference Level IEEE 802.11g_Channel 11_20MHz_Antenna 0



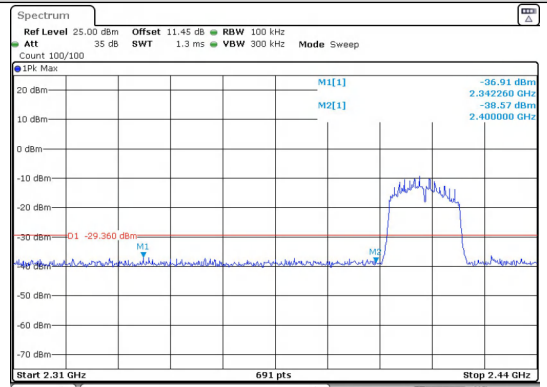
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Out Of Band Emission IEEE 802.11g_Channel 11_20MHz_Antenna 0



Date: 10.JAN.2025 14:48:58

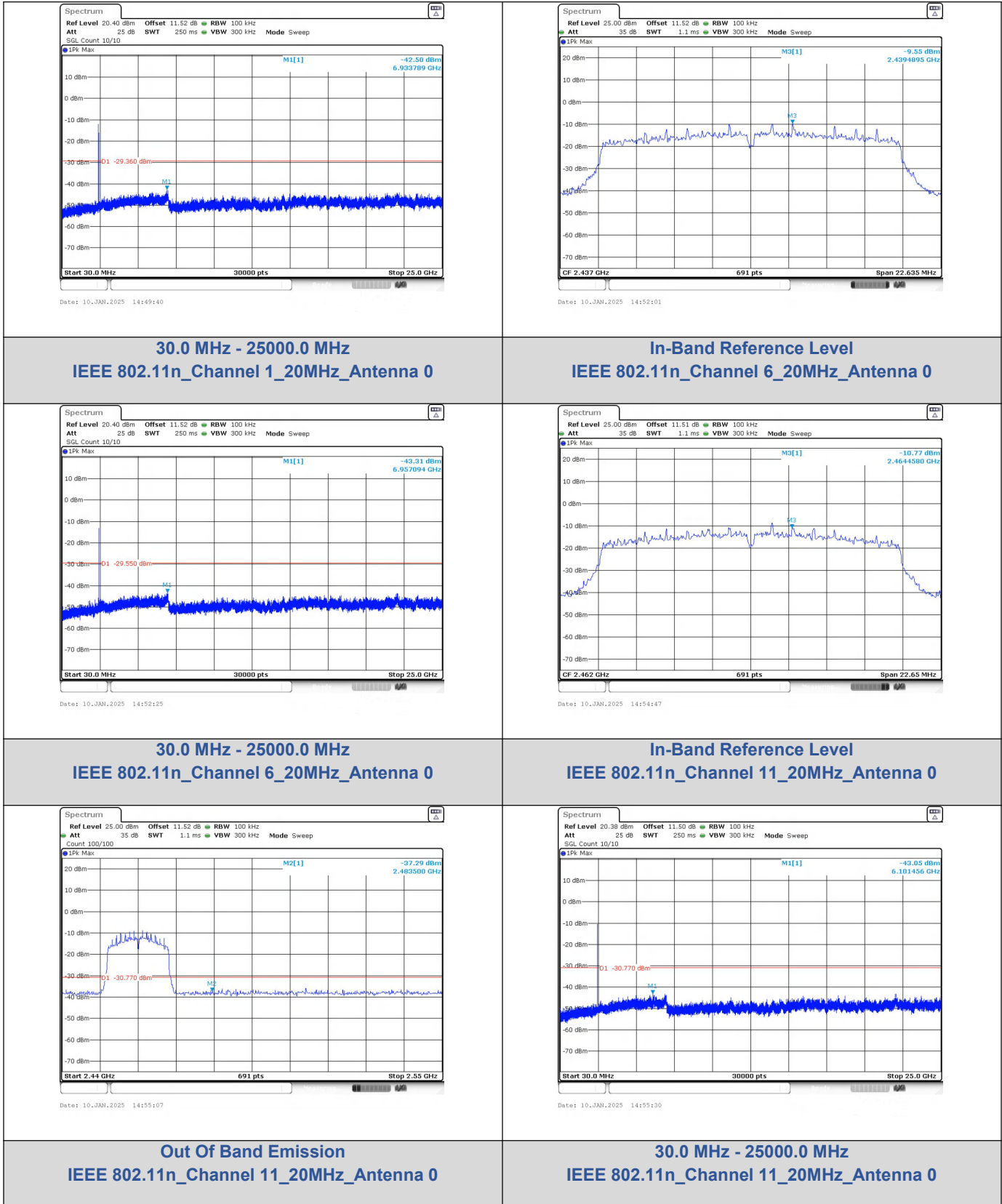
30.0 MHz - 25000.0 MHz IEEE 802.11g_Channel 11_20MHz_Antenna 0

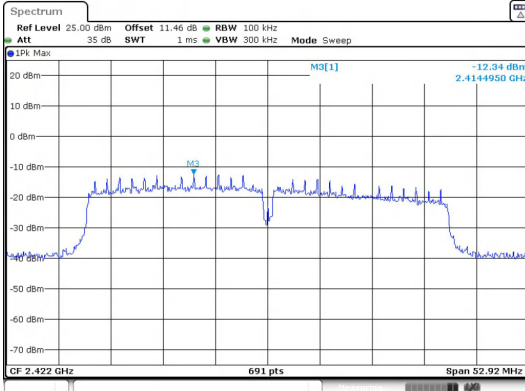


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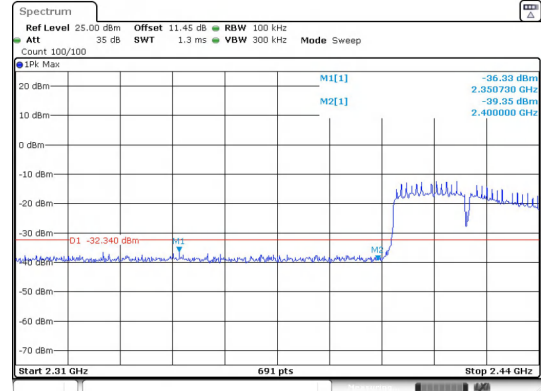
In-Band Reference Level IEEE 802.11_Channel 1_20MHz_Antenna 0

Out Of Band Emission IEEE 802.11_Channel 1_20MHz_Antenna 0





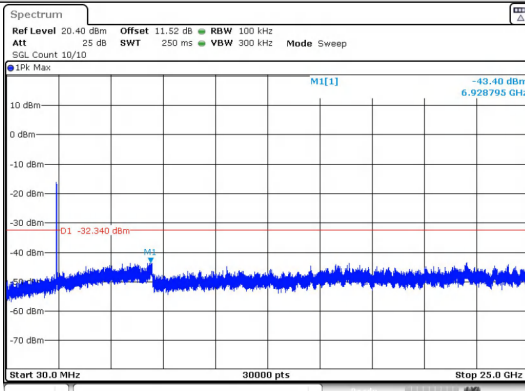
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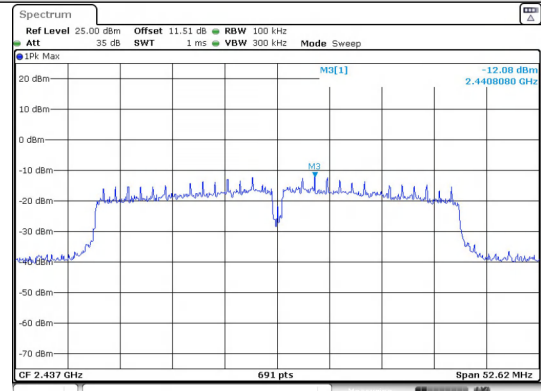
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**In-Band Reference Level
IEEE 802.11n_Channel 3_40MHz_Antenna 0**

**Out Of Band Emission
IEEE 802.11n_Channel 3_40MHz_Antenna 0**



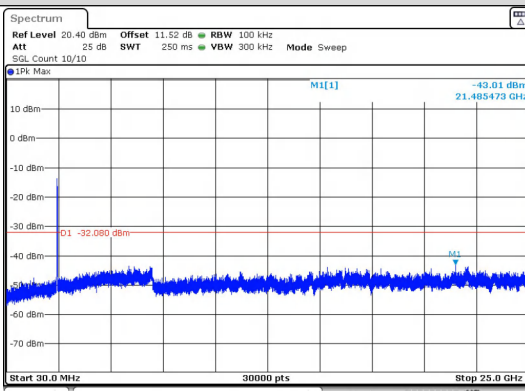
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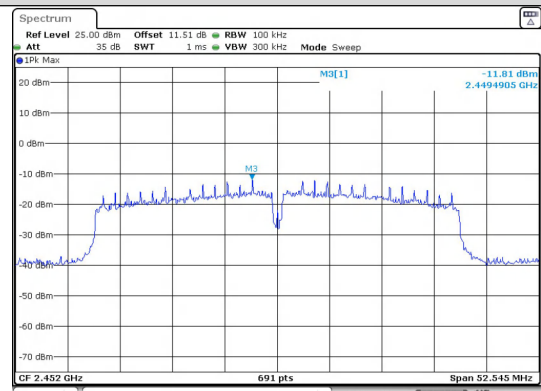
Date: 10.JAN.2025 15:00:46

**30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 3_40MHz_Antenna 0**

**In-Band Reference Level
IEEE 802.11n_Channel 6_40MHz_Antenna 0**



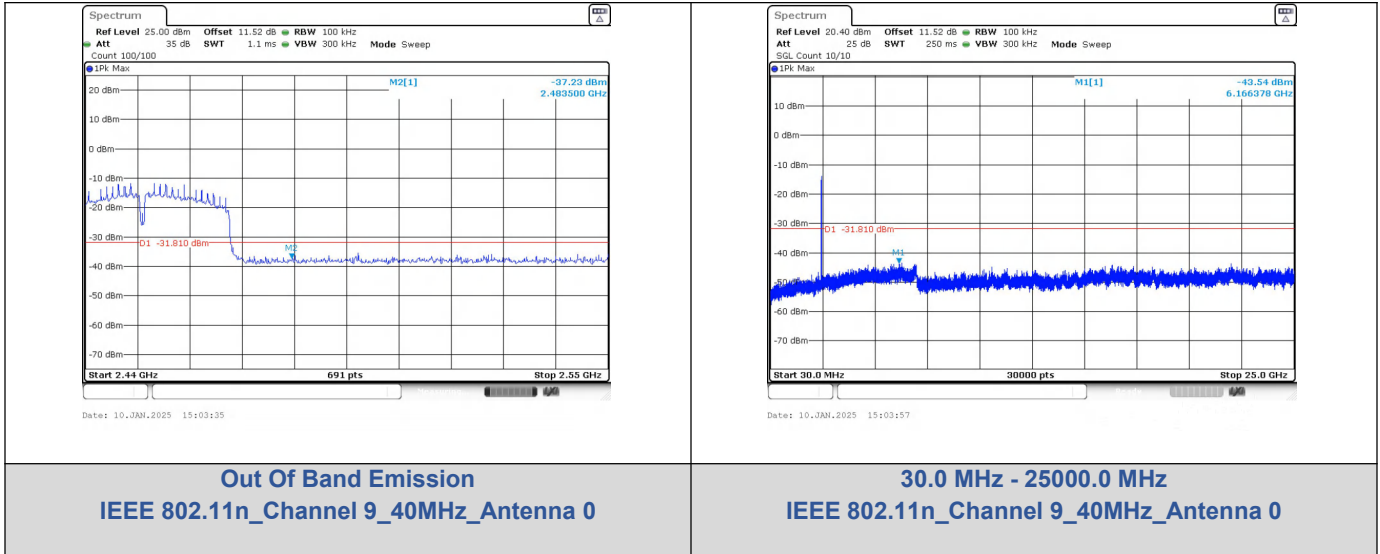
Date: 10.JAN.2025 15:01:10



Date: 10.JAN.2025 15:03:16

**30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_40MHz_Antenna 0**

**In-Band Reference Level
IEEE 802.11n_Channel 9_40MHz_Antenna 0**



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