

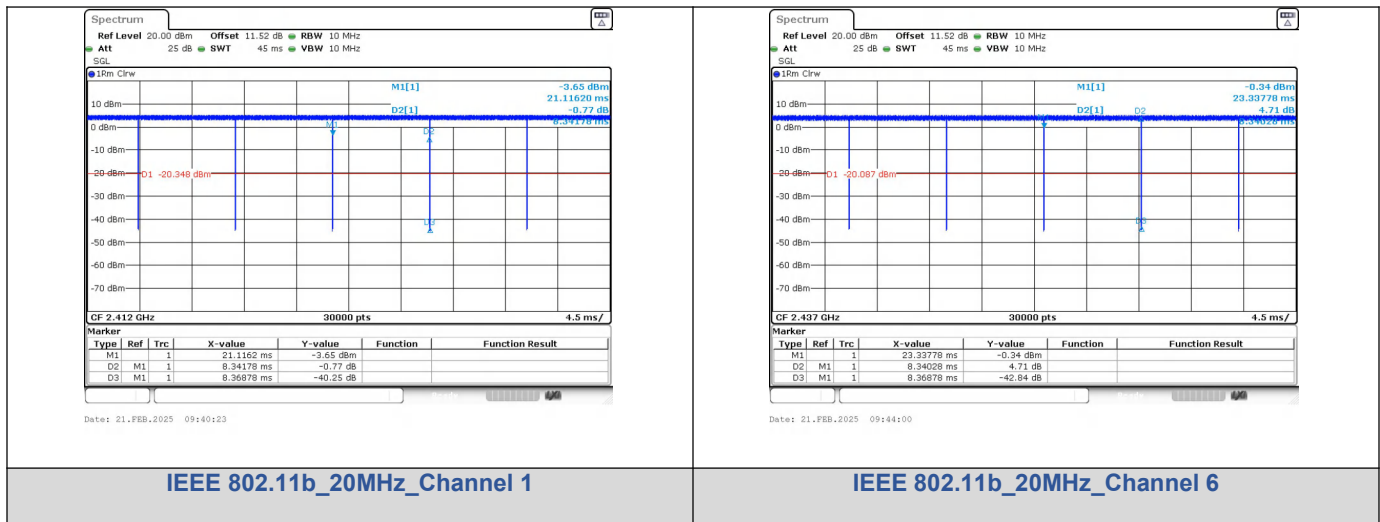
Appendix Report

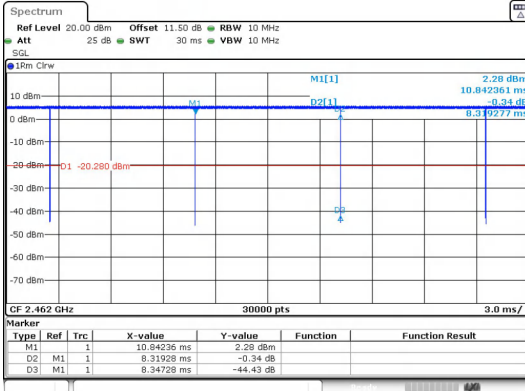
Report No.:	CISRR25022008405
Test Engineer:	Mark Fu
Supervised by:	Rory Huang

Test Result

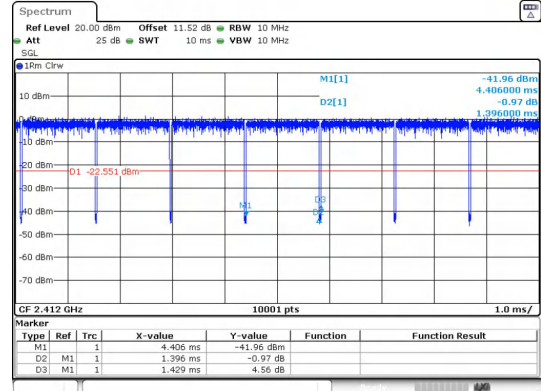
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11b	1	1	1	8.342	8.369	99.68	0.9968	0.0139	0.1199
		6		8.340	8.369	99.66	0.9966	0.0148	0.1199
		11		8.319	8.347	99.66	0.9966	0.0148	0.1202
IEEE 802.11g	1	1		1.396	1.429	97.69	0.9769	0.1015	0.7163
		6		1.396	1.430	97.62	0.9762	0.1046	0.7163
		11		1.395	1.429	97.62	0.9762	0.1046	0.7168
IEEE 802.11n_20	MCS 0	1		1.293	1.327	97.44	0.9744	0.1126	0.7734
		6		1.304	1.338	97.46	0.9746	0.1117	0.7669
		11		1.293	1.327	97.44	0.9744	0.1126	0.7734
IEEE 802.11n_40	MCS 0	3		0.650	0.684	95.00	0.9500	0.2228	1.5385
		6		0.650	0.684	94.94	0.9494	0.2255	1.5385
		9		0.650	0.684	95.00	0.9500	0.2228	1.5385

Test Graphs





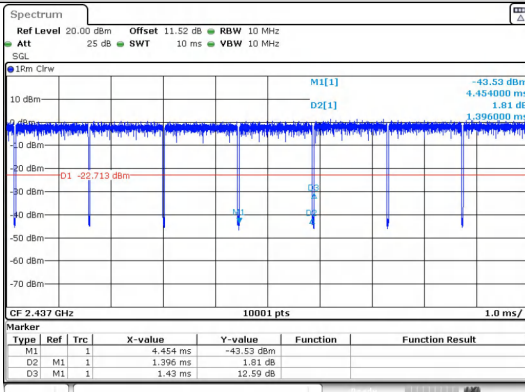
Date: 21.FEB.2025 09:47:32



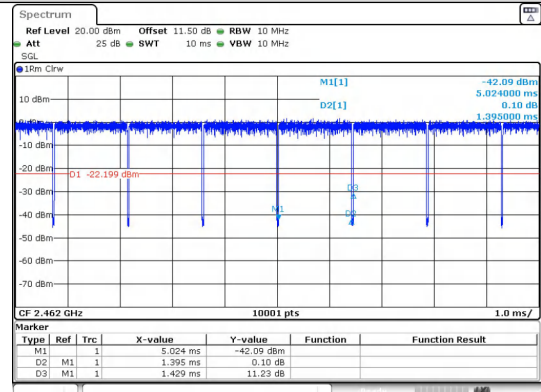
Date: 21.FEB.2025 09:52:48

IEEE 802.11b_20MHz_Channel 11

IEEE 802.11g_20MHz_Channel 1



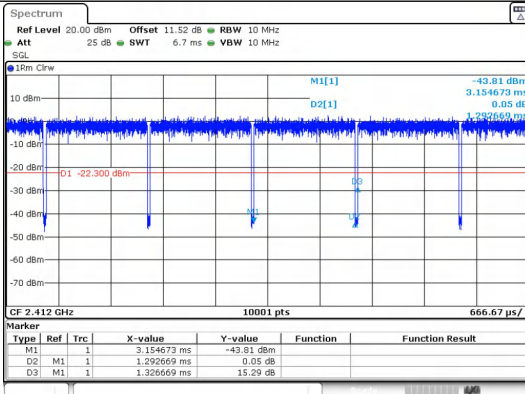
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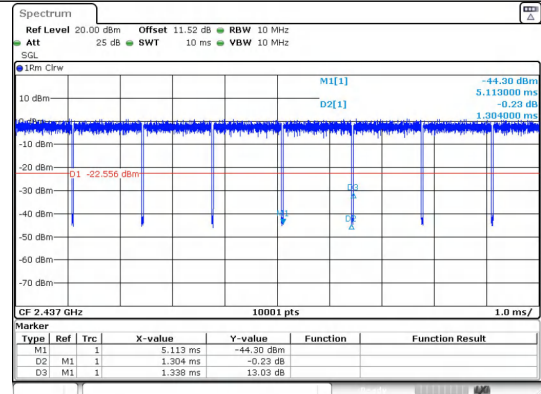
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IEEE 802.11g_20MHz_Channel 6

IEEE 802.11g_20MHz_Channel 11



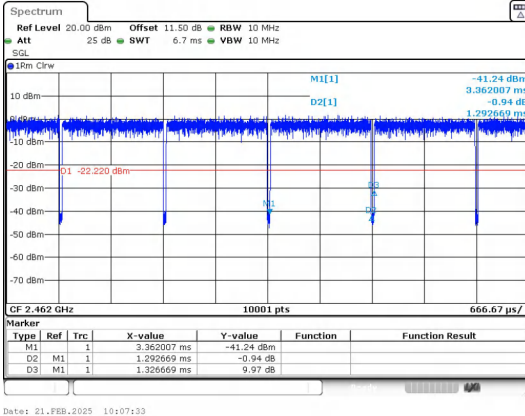
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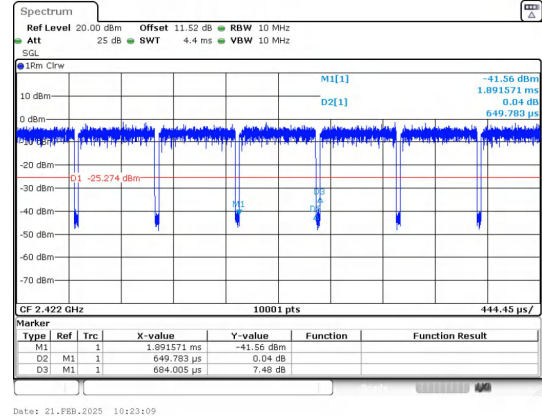
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IEEE 802.11n_20MHz_Channel 1

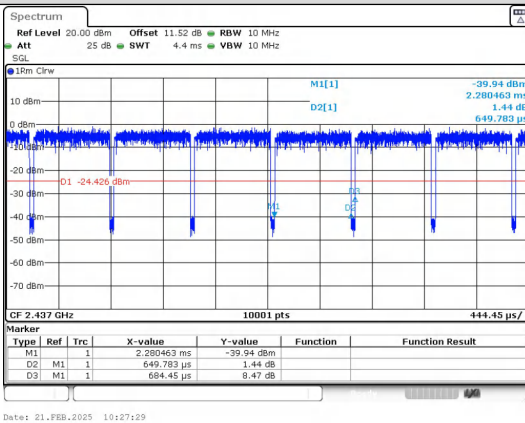
IEEE 802.11n_20MHz_Channel 6



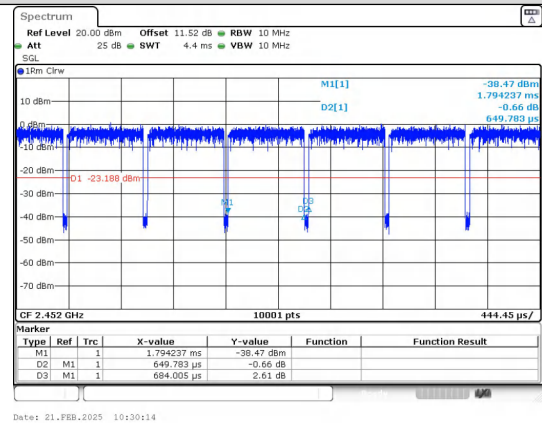
IEEE 802.11n_20MHz_Channel 11



IEEE 802.11n_40MHz_Channel 3



IEEE 802.11n_40MHz_Channel 6



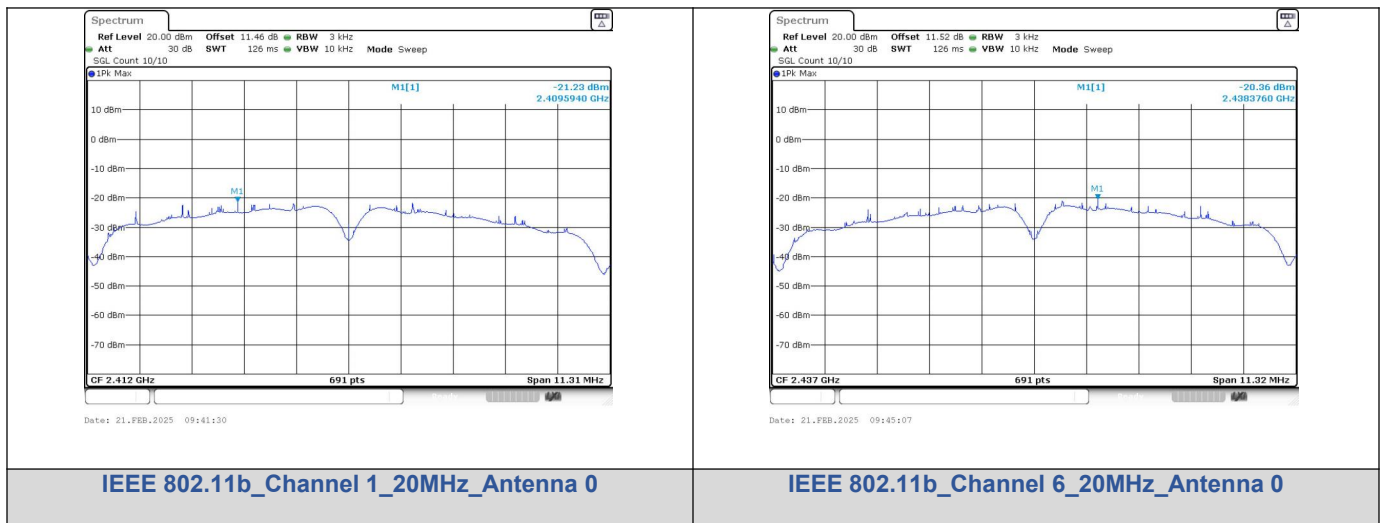
IEEE 802.11n_40MHz_Channel 9

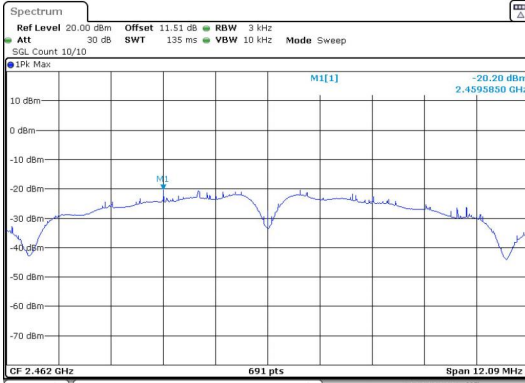
Power Spectral Density

Test Result

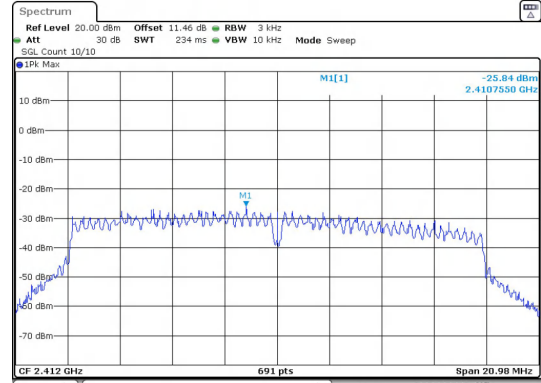
Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-21.230	≤8	PASS
	6	-20.360		PASS
	11	-20.200		PASS
IEEE 802.11g	1	-25.840		PASS
	6	-26.680		PASS
	11	-26.230		PASS
IEEE 802.11n_20	1	-26.400		PASS
	6	-26.520		PASS
	11	-25.110		PASS
IEEE 802.11n_40	3	-27.980		PASS
	6	-29.540		PASS
	9	-27.530		PASS

Test Graphs





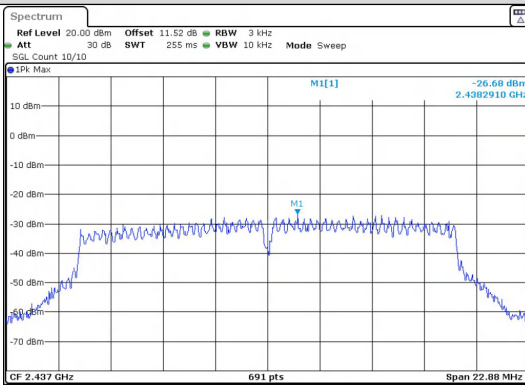
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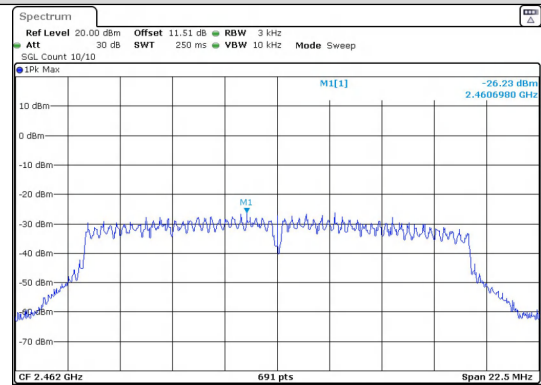
Date: 21.FEB.2025 09:53:53

IEEE 802.11b_Channel 11_20MHz_Antenna 0

IEEE 802.11g_Channel 1_20MHz_Antenna 0



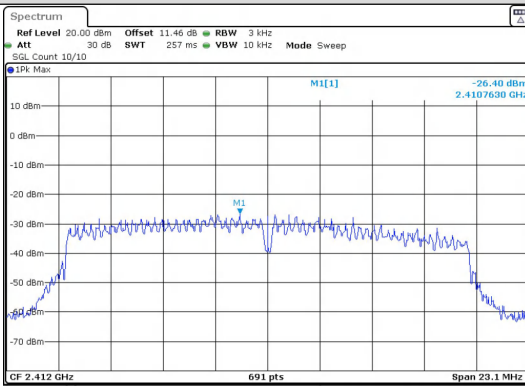
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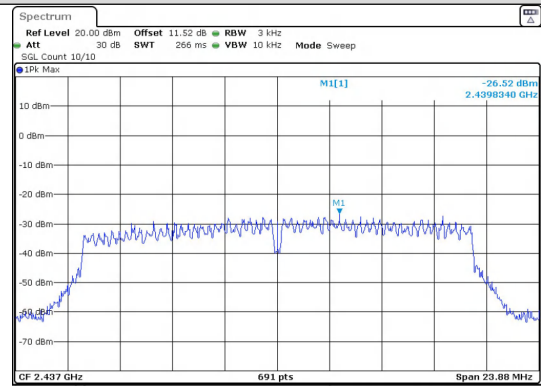
Date: 21.FEB.2025 09:59:07

IEEE 802.11g_Channel 6_20MHz_Antenna 0

IEEE 802.11g_Channel 11_20MHz_Antenna 0



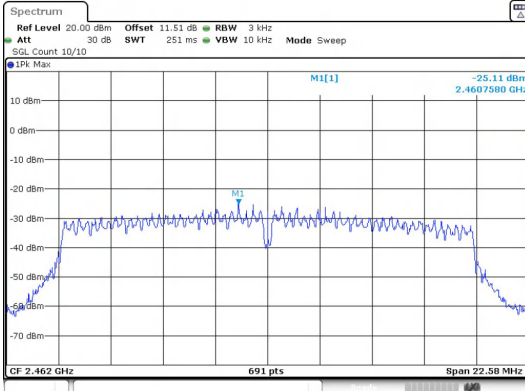
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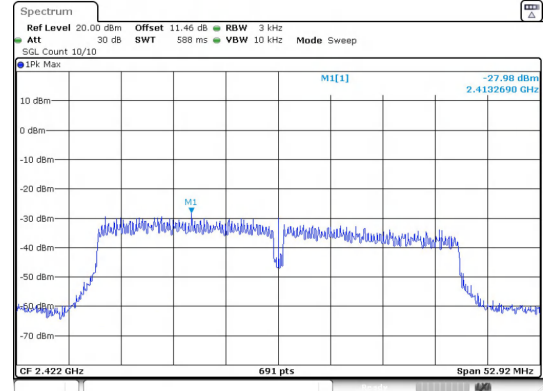
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IEEE 802.11n_Channel 1_20MHz_Antenna 0

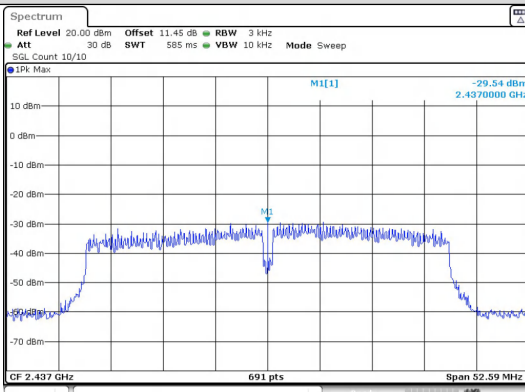
IEEE 802.11n_Channel 6_20MHz_Antenna 0



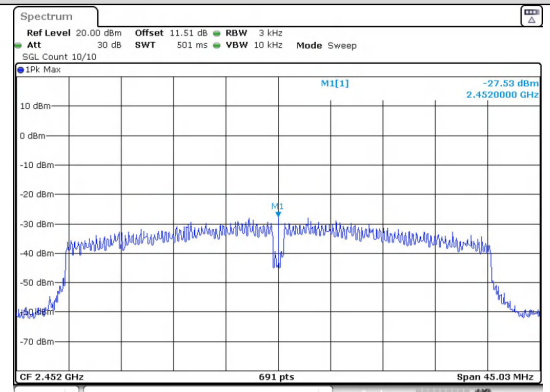
IEEE 802.11n_Channel 11_20MHz_Antenna 0



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

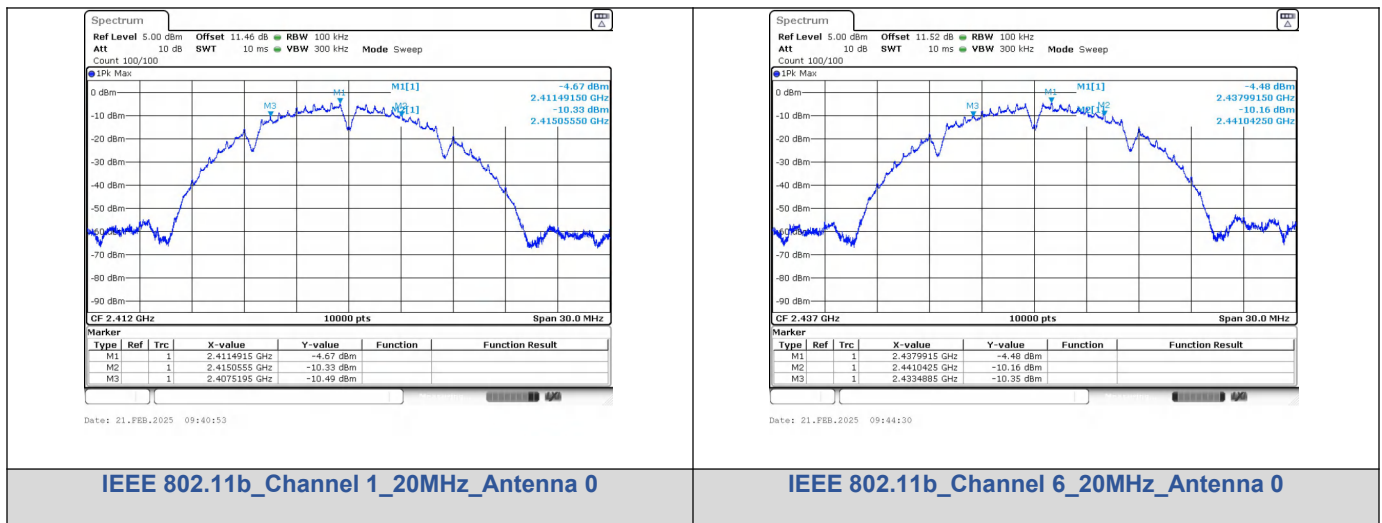
Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	7.18	≤30	PASS
	6	7.46	≤30	PASS
	11	8.44	≤30	PASS
IEEE 802.11g	1	7.34	≤30	PASS
	6	7.59	≤30	PASS
	11	8.08	≤30	PASS
IEEE 802.11n_20	1	7.43	≤30	PASS
	6	7.64	≤30	PASS
	11	7.96	≤30	PASS
IEEE 802.11n_40	3	7.17	≤30	PASS
	6	7.48	≤30	PASS
	9	7.72	≤30	PASS

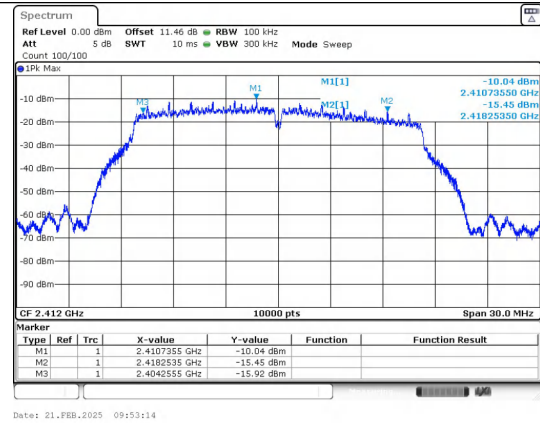
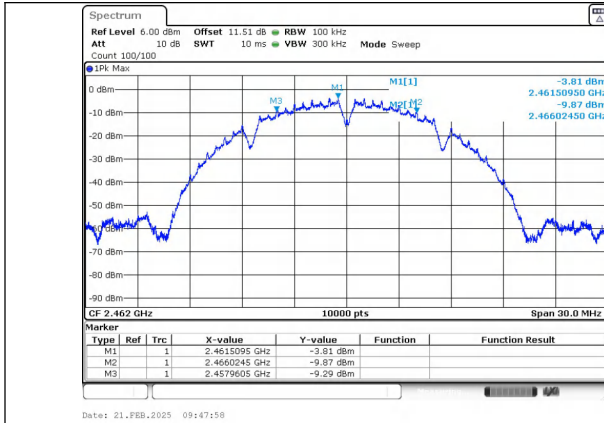
6dB Bandwidth

Test Result

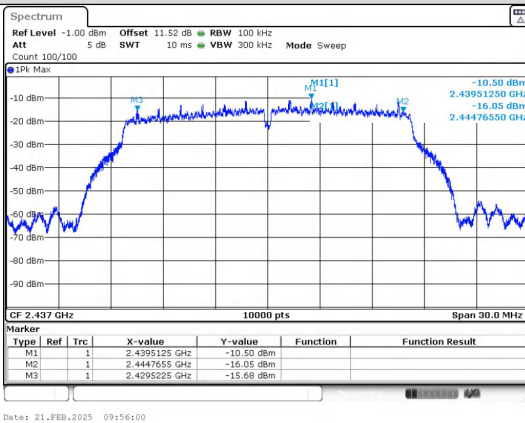
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	7.540	≥0.5	PASS
	6		2437	7.550		PASS
	11		2462	8.060		PASS
IEEE 802.11g	1		2412	13.99		PASS
	6		2437	15.25		PASS
	11		2462	15.00		PASS
IEEE 802.11n_20	1		2412	15.40		PASS
	6		2437	15.92		PASS
	11		2462	15.05		PASS
IEEE 802.11n_40	3		2422	35.28		PASS
	6		2437	35.06		PASS
	9		2452	30.02		PASS

Test Graphs

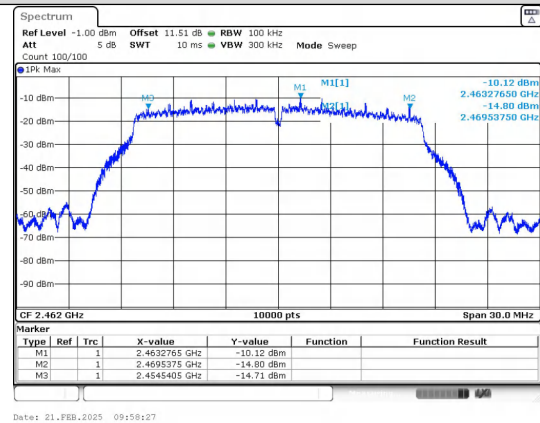




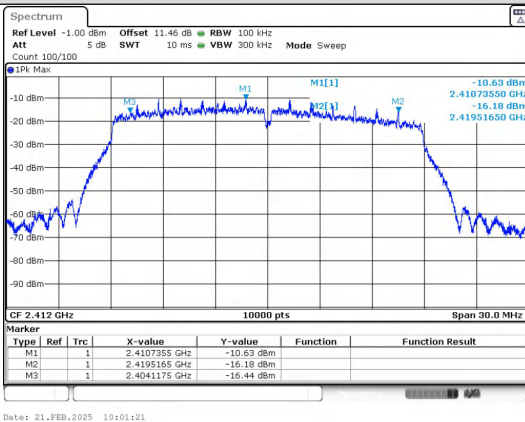
IEEE 802.11b_Channel 11_20MHz_Antenna 0



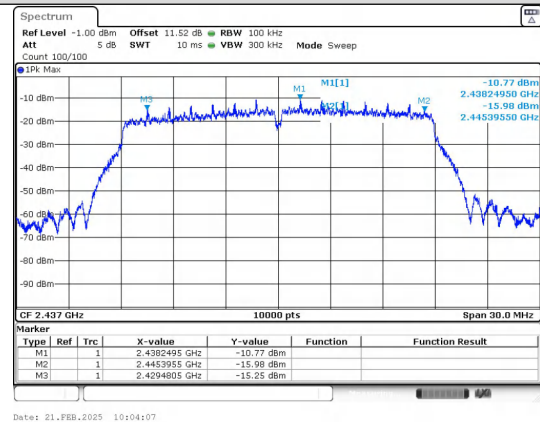
IEEE 802.11g_Channel 1_20MHz_Antenna 0



IEEE 802.11g_Channel 6_20MHz_Antenna 0

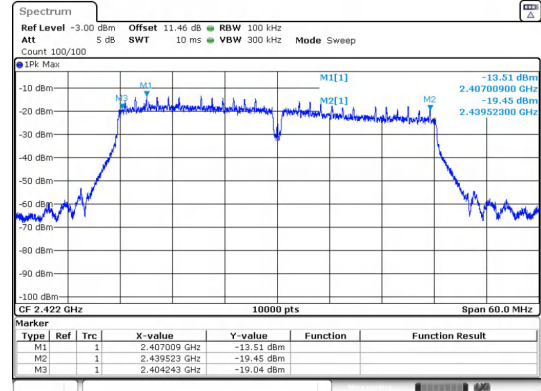
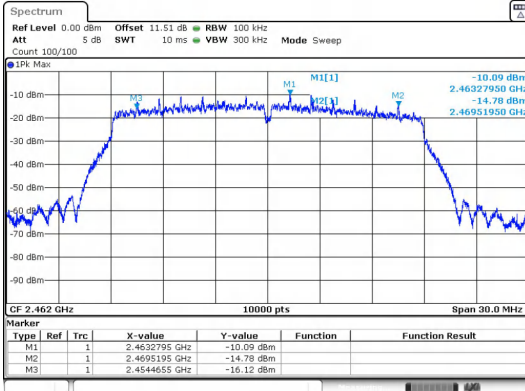


IEEE 802.11g_Channel 11_20MHz_Antenna 0



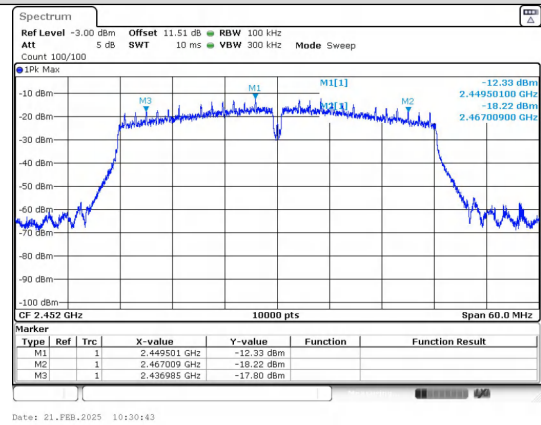
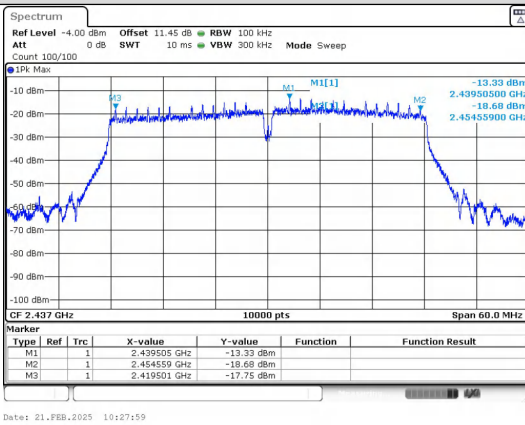
IEEE 802.11n_Channel 1_20MHz_Antenna 0

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

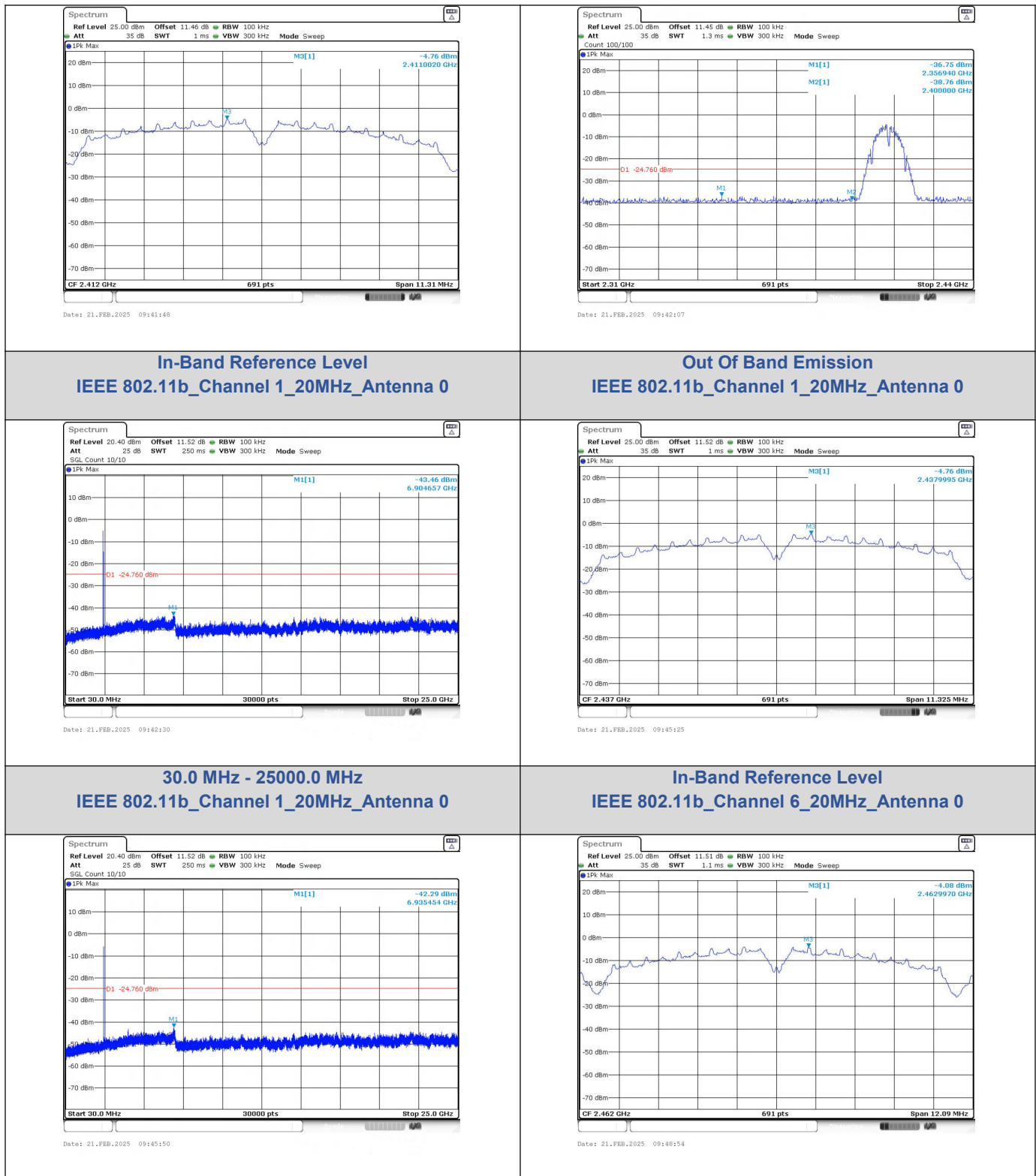
IEEE 802.11n_Channel 9_40MHz_Antenna 0

Conducted Out Of Band Emission

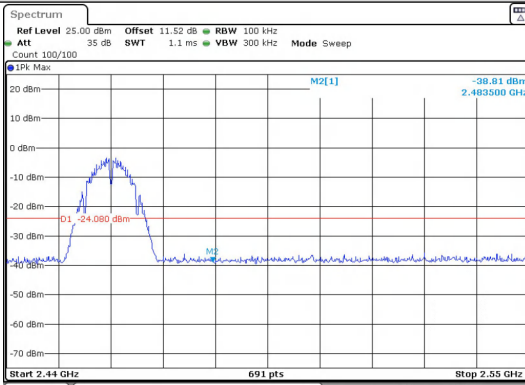
Test Result

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2356.94	-36.749	-24.76	-11.989	PASS
			2400.00	-38.760	-24.76	-14.000	PASS
			6904.70	-43.456	-24.76	-18.696	PASS
	6		6935.45	-42.285	-24.76	-17.525	PASS
	11		2483.50	-38.810	-24.08	-14.730	PASS
			6952.93	-42.741	-24.08	-18.661	PASS
IEEE 802.11g	1		2324.02	-36.547	-31.01	-5.537	PASS
			2400.00	-38.940	-31.01	-7.930	PASS
			6940.40	-43.231	-31.01	-12.221	PASS
	6		6980.40	-42.393	-31.53	-10.863	PASS
	11		2483.50	-37.760	-29.81	-7.950	PASS
			6941.28	-42.560	-29.81	-12.750	PASS
IEEE 802.11n_20	1		2347.72	-36.838	-30.1	-6.738	PASS
			2400.00	-38.790	-30.1	-8.690	PASS
			6893.80	-42.668	-30.1	-12.568	PASS
	6		6953.76	-43.173	-30.91	-12.263	PASS
	11		2483.50	-38.360	-30.35	-8.010	PASS
			4460.93	-43.225	-30.35	-12.875	PASS
IEEE 802.11n_40	3		2335.87	-36.851	-33.17	-3.681	PASS
			2400.00	-38.920	-33.17	-5.750	PASS
			6996.20	-43.442	-33.17	-10.272	PASS
	6		6926.30	-42.867	-33.26	-9.607	PASS
	9		2483.50	-38.190	-31.7	-6.490	PASS
			22597.5	-43.487	-31.7	-11.787	PASS

Test Graphs

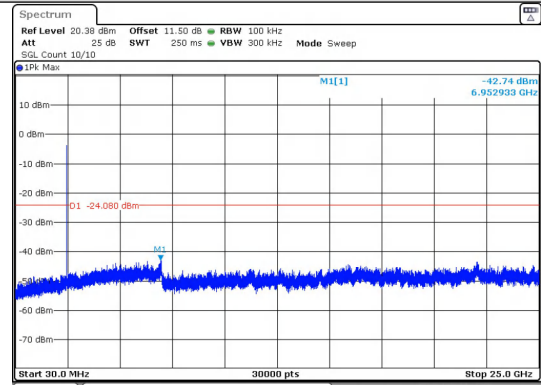


30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 6_20MHz_Antenna 0



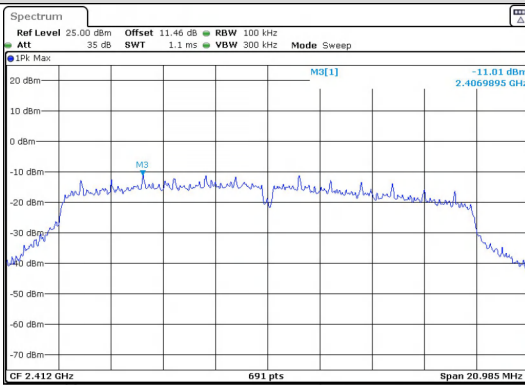
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In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0



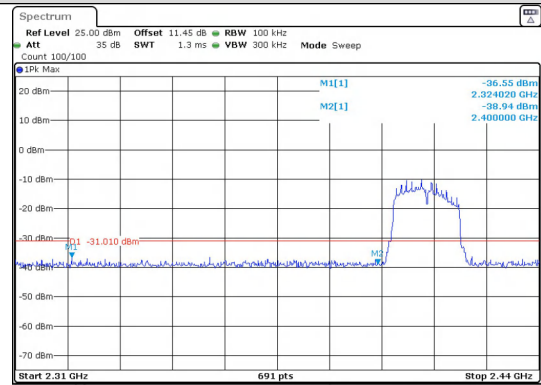
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Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0



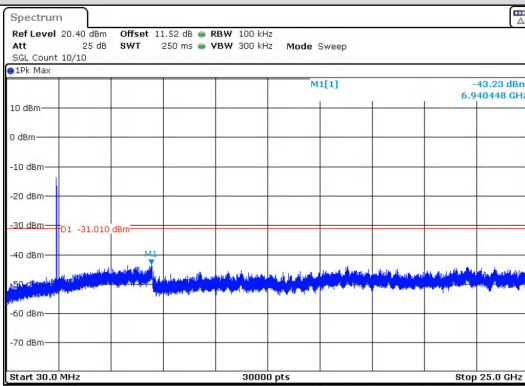
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30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 0



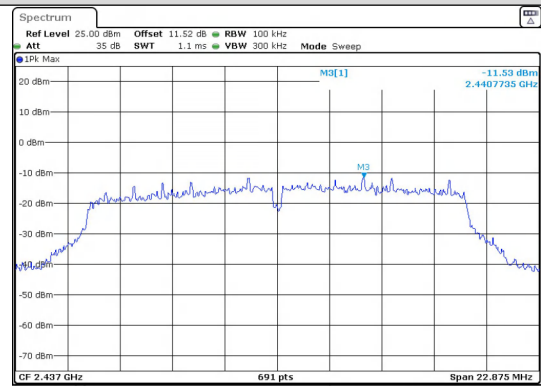
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In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0



Date: 21.FEB.2025 09:54:53

Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0

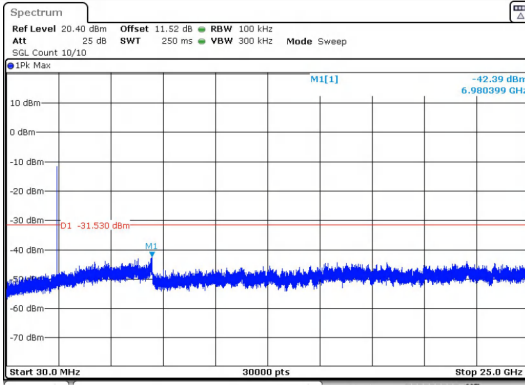


Date: 21.FEB.2025 09:56:57

30.0 MHz - 25000.0 MHz

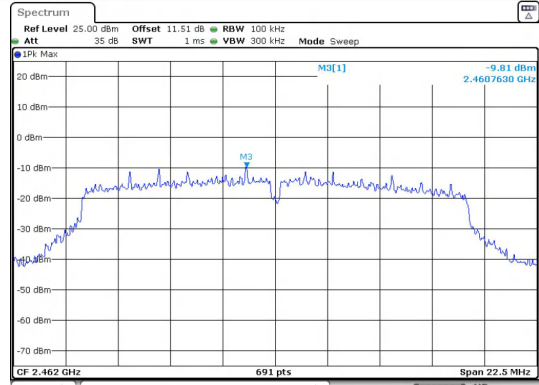
In-Band Reference Level

IEEE 802.11g_Channel 1_20MHz_Antenna 0



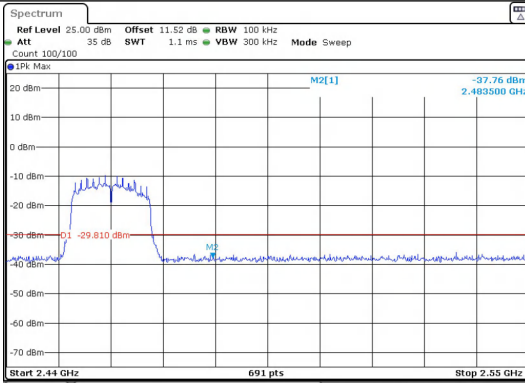
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IEEE 802.11g_Channel 6_20MHz_Antenna 0



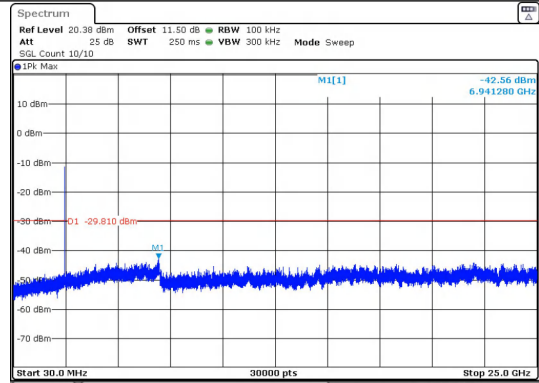
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30.0 MHz - 25000.0 MHz IEEE 802.11g_Channel 6_20MHz_Antenna 0



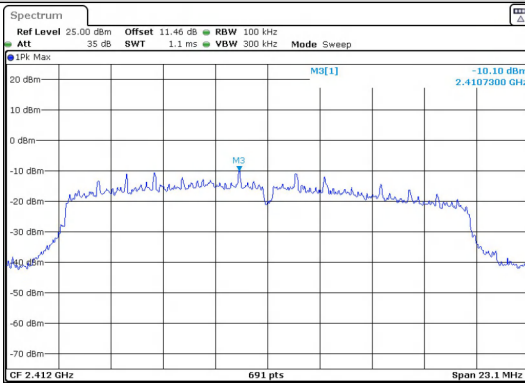
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In-Band Reference Level IEEE 802.11g_Channel 11_20MHz_Antenna 0



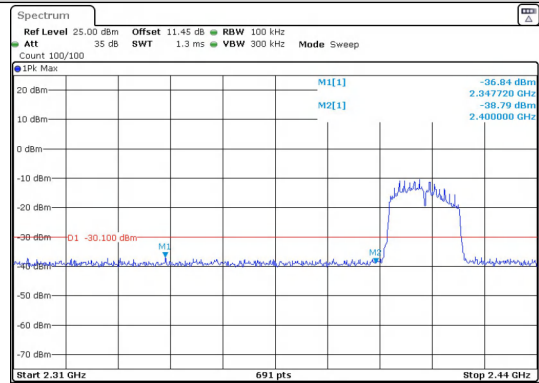
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Out Of Band Emission IEEE 802.11g_Channel 11_20MHz_Antenna 0



Date: 21.FEB.2025 10:02:18

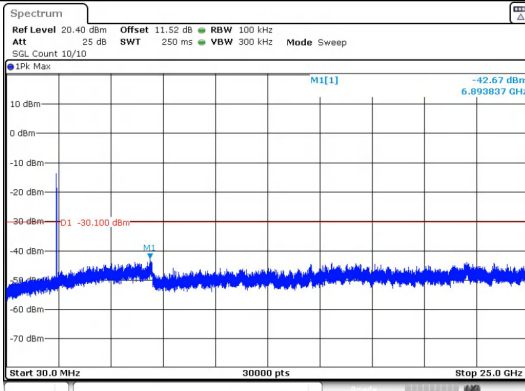
30.0 MHz - 25000.0 MHz IEEE 802.11g_Channel 11_20MHz_Antenna 0



Date: 21.FEB.2025 10:02:38

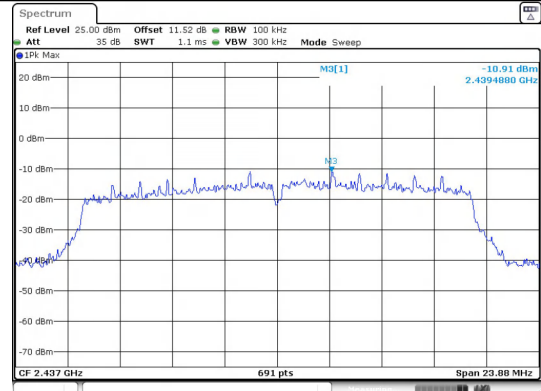
In-Band Reference Level IEEE 802.11n_Channel 1_20MHz_Antenna 0

Out Of Band Emission IEEE 802.11n_Channel 1_20MHz_Antenna 0



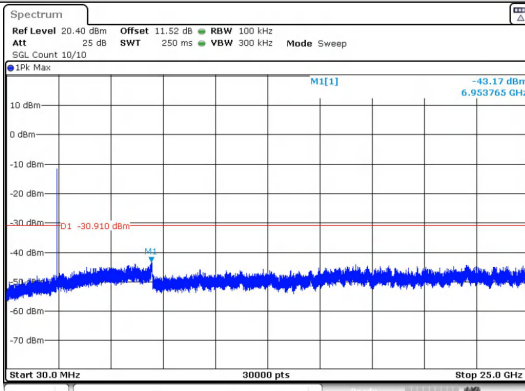
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30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 1_20MHz_Antenna 0



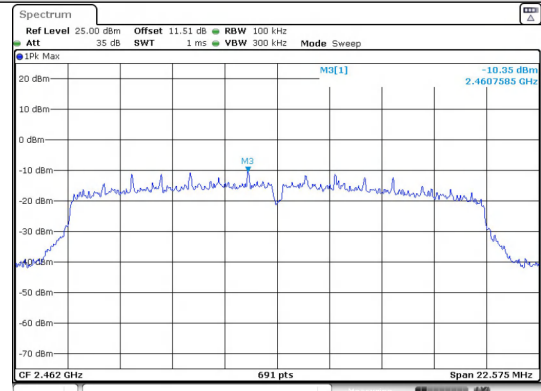
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In-Band Reference Level
IEEE 802.11n_Channel 6_20MHz_Antenna 0



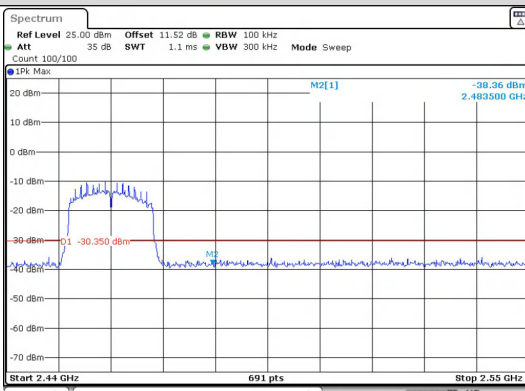
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30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_20MHz_Antenna 0



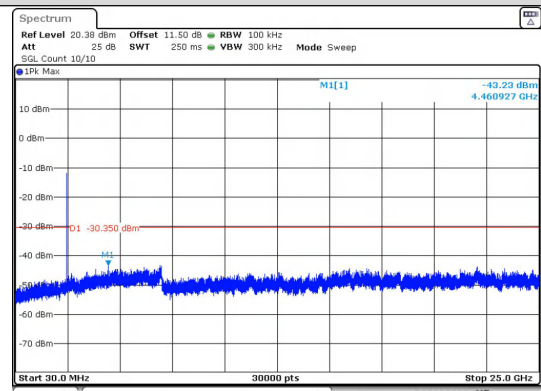
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In-Band Reference Level
IEEE 802.11n_Channel 11_20MHz_Antenna 0



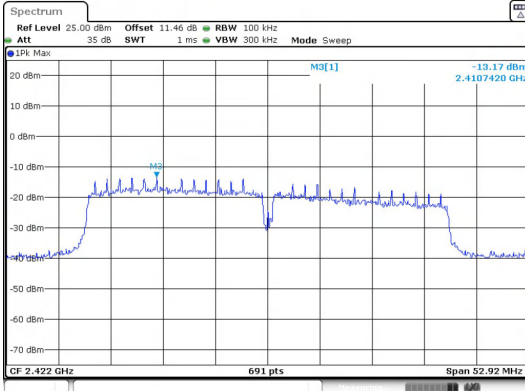
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Out Of Band Emission
IEEE 802.11n_Channel 11_20MHz_Antenna 0

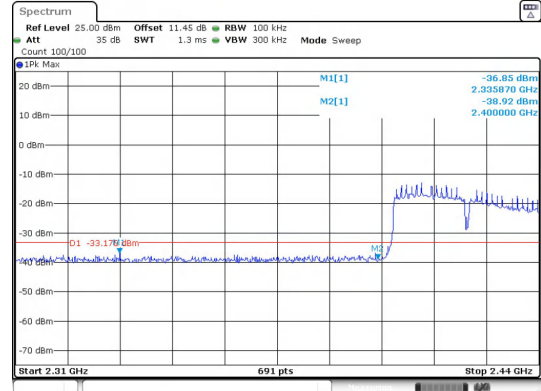


Date: 21.FEB.2025 10:09:38

30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 11_20MHz_Antenna 0



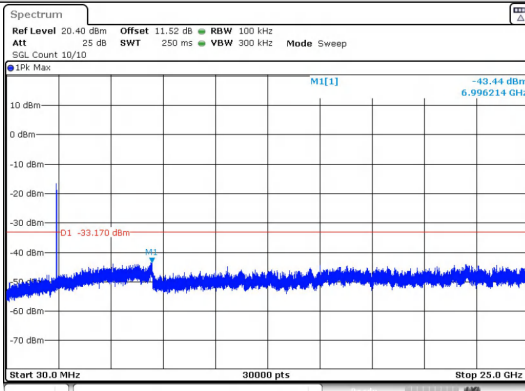
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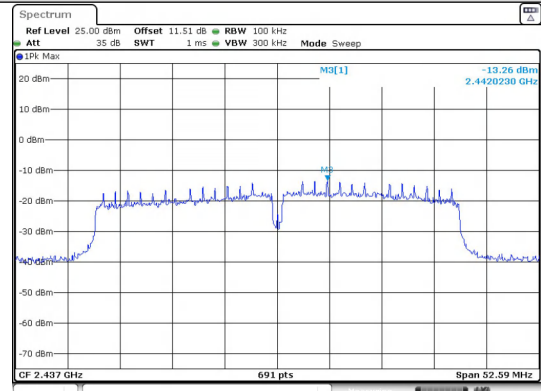
Date: 21.FEB.2025 10:25:06

In-Band Reference Level IEEE 802.11n_Channel 3_40MHz_Antenna 0

Out Of Band Emission IEEE 802.11n_Channel 3_40MHz_Antenna 0



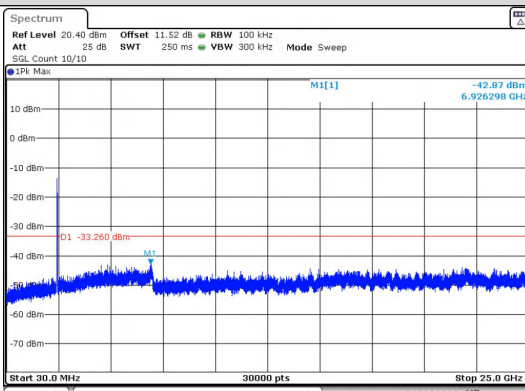
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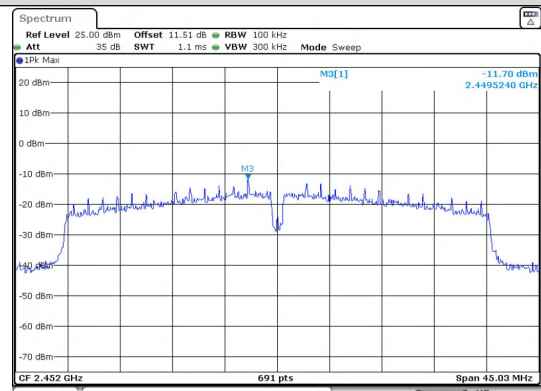
Date: 21.FEB.2025 10:29:05

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



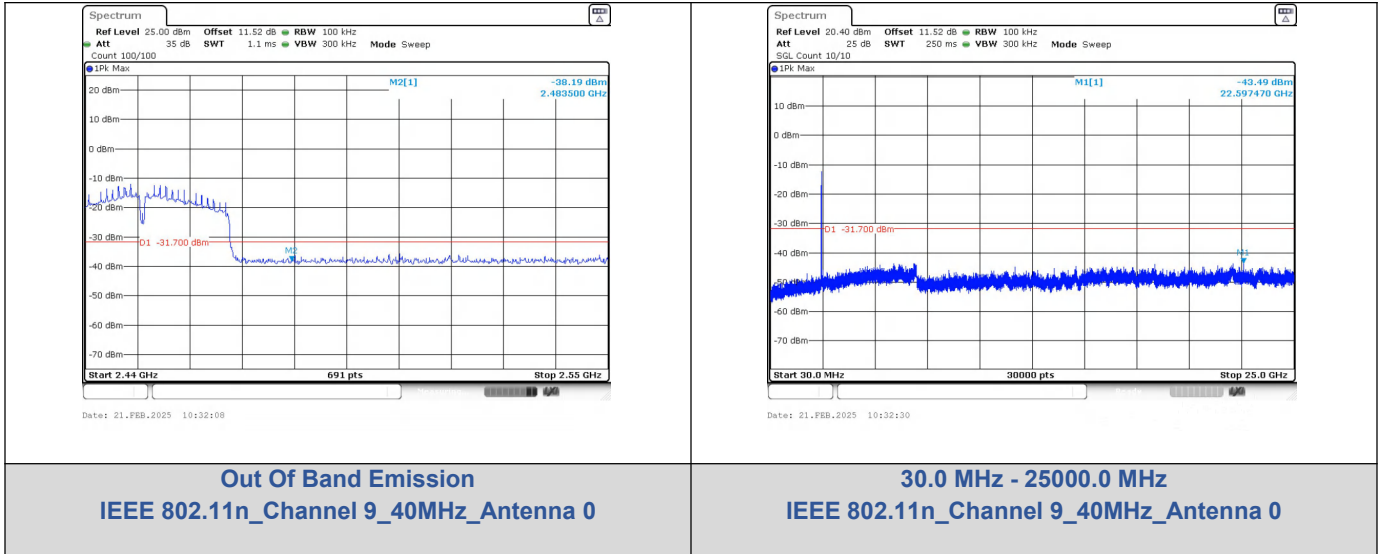
Date: 21.FEB.2025 10:29:29



Date: 21.FEB.2025 10:31:48

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-----