

Appendix A

Report No.:	CISRR24042516001
FCC ID:	2AIT9-PG-105
Product Name:	Alarm Host
Model No.:	PG-105
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

Conducted Peak Output Power

Test Result

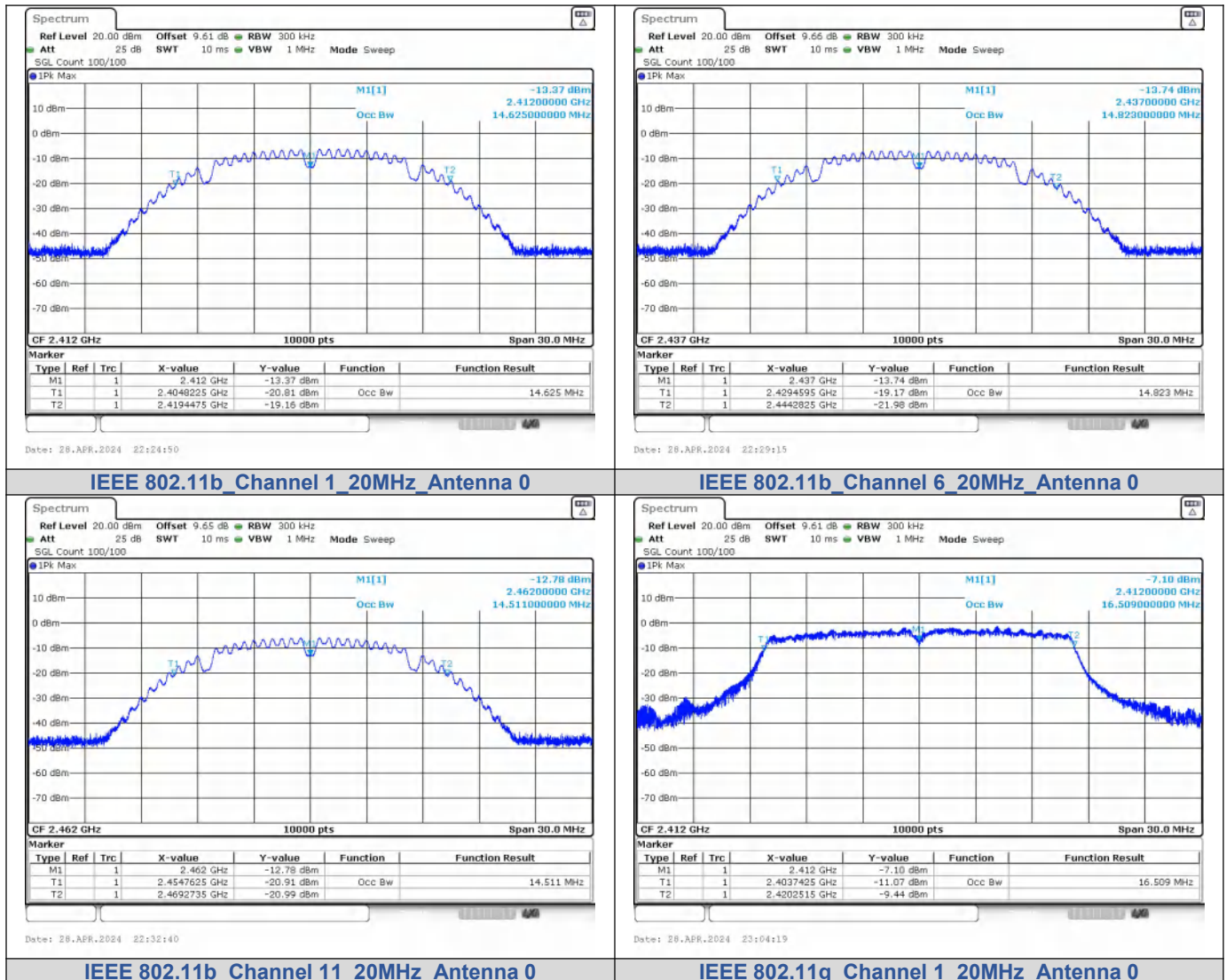
Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	12.89	30	PASS
	6	12.71	30	PASS
	11	12.84	30	PASS
IEEE 802.11g	1	12.8	30	PASS
	6	12.72	30	PASS
	11	12.74	30	PASS
IEEE 802.11n_20	1	12.76	30	PASS
	6	12.33	30	PASS
	11	12.09	30	PASS
IEEE 802.11n_40	3	11.19	30	PASS
	6	11.88	30	PASS
	9	11.72	30	PASS

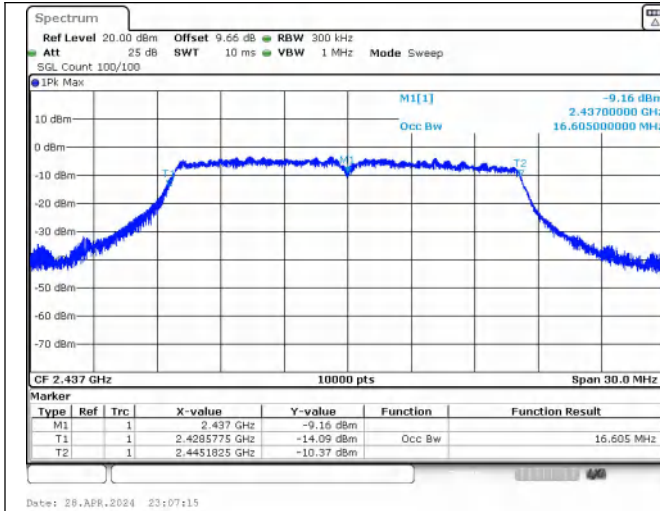
99% Bandwidth

Test Result

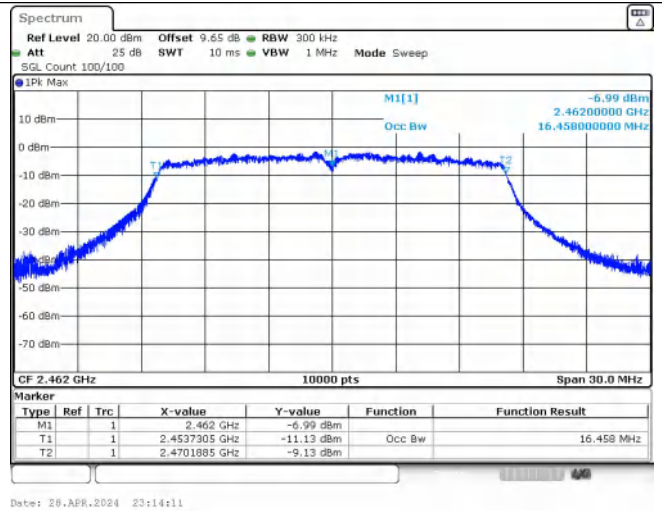
Mode	Channel	Ant.	99% BW (MHz)
IEEE 802.11b	1	0	14.620
	6		14.820
	11		14.510
IEEE 802.11g	1		16.510
	6		16.610
	11		16.460
IEEE 802.11n_20	1		17.700
	6		17.780
	11		17.620
IEEE 802.11n_40	3		35.840
	6		36.290
	9		36.550

Test Graphs

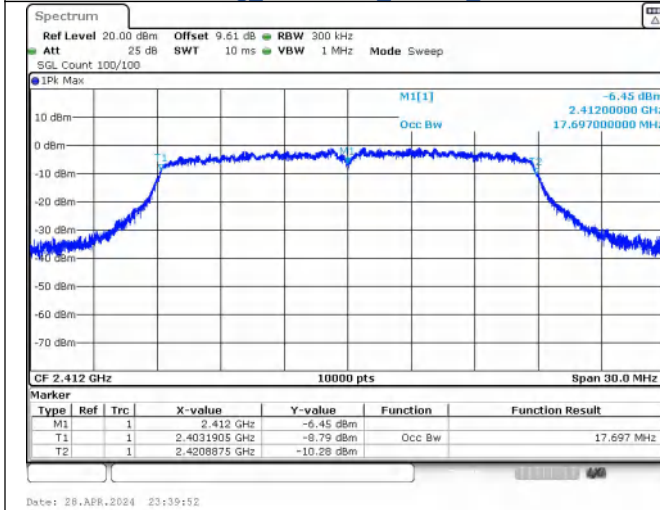




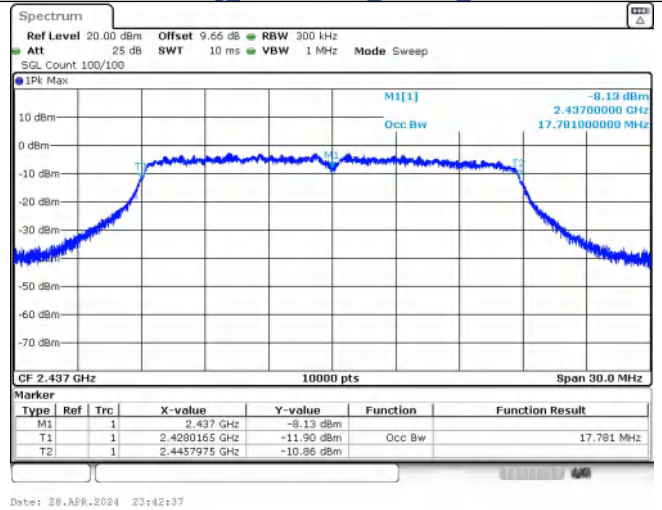
IEEE 802.11g_Channel 6_20MHz_Antenna 0



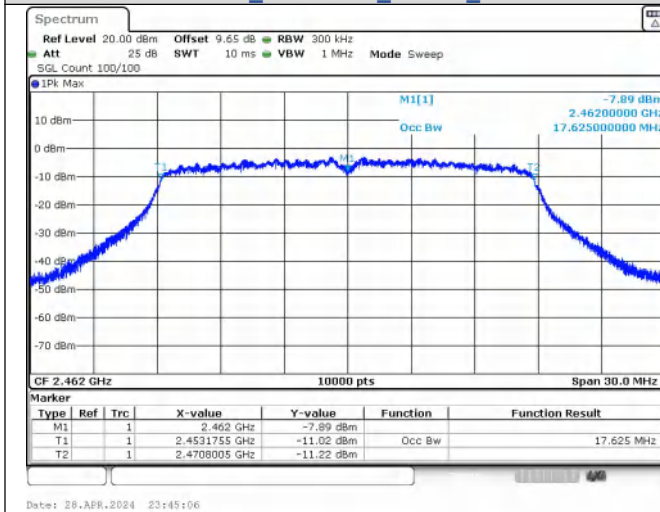
IEEE 802.11g_Channel 11_20MHz_Antenna 0



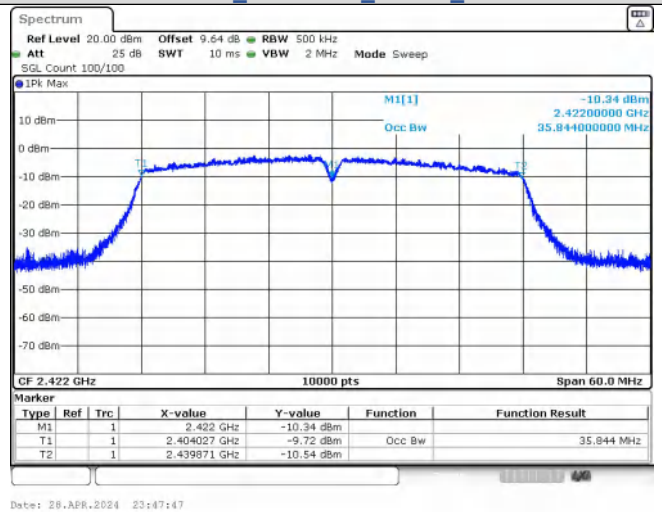
IEEE 802.11n_Channel 1_20MHz_Antenna 0



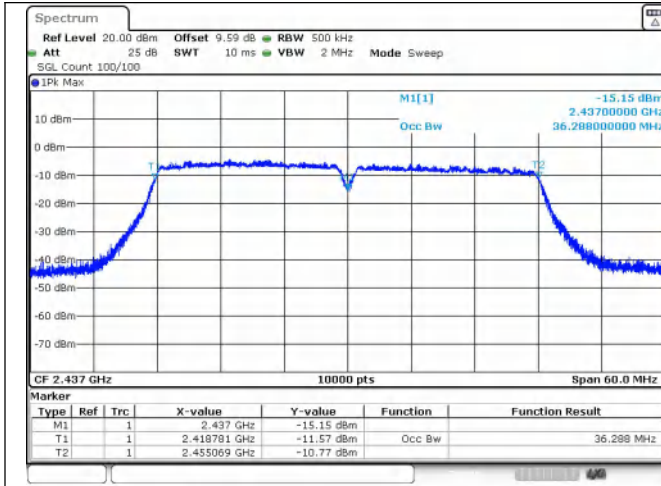
IEEE 802.11n_Channel 6_20MHz_Antenna 0



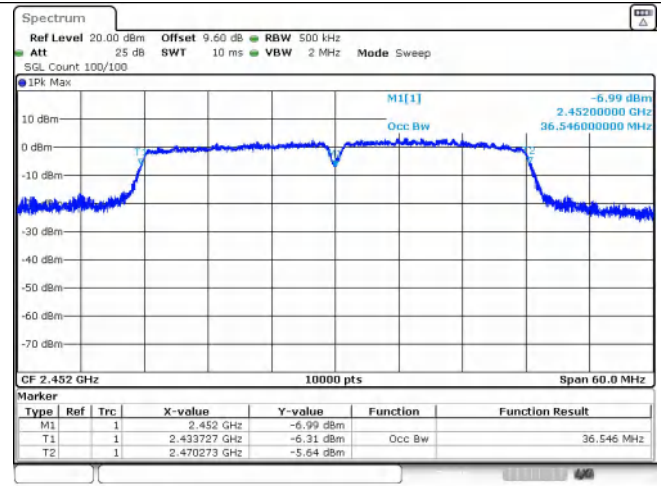
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0



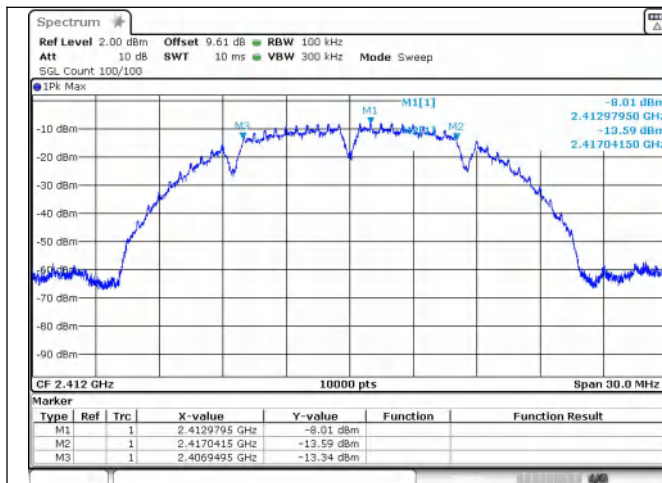
IEEE 802.11n_Channel 9_40MHz_Antenna 0

6dB Bandwidth

Test Result

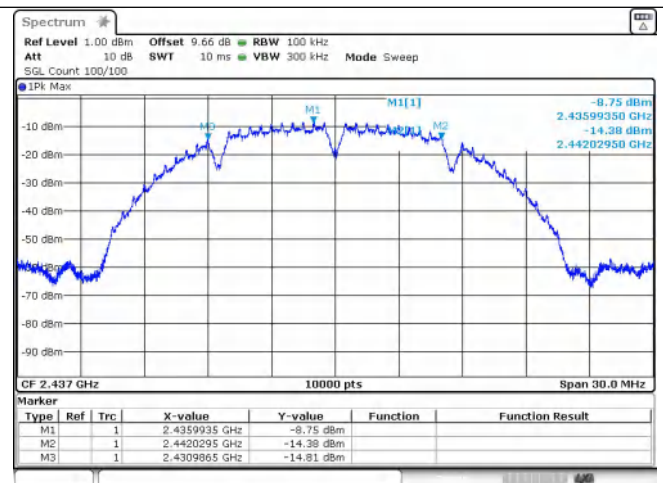
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	10.09	0.5	PASS
	6		2437	11.04		PASS
	11		2462	10.10		PASS
IEEE 802.11g	1		2412	16.34		PASS
	6		2437	16.43		PASS
	11		2462	16.34		PASS
IEEE 802.11n_20	1		2412	17.57		PASS
	6		2437	17.60		PASS
	11		2462	17.57		PASS
IEEE 802.11n_40	3		2422	35.62		PASS
	6		2437	36.41		PASS
	9		2452	36.30		PASS

Test Graphs



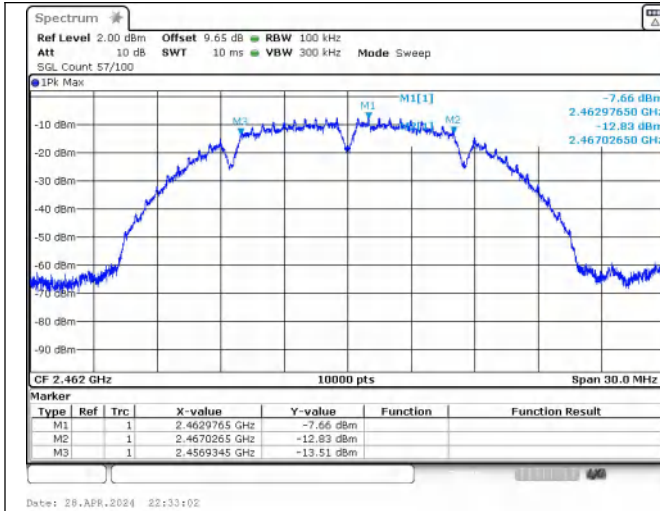
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IEEE 802.11b_Channel 1_20MHz_Antenna 0

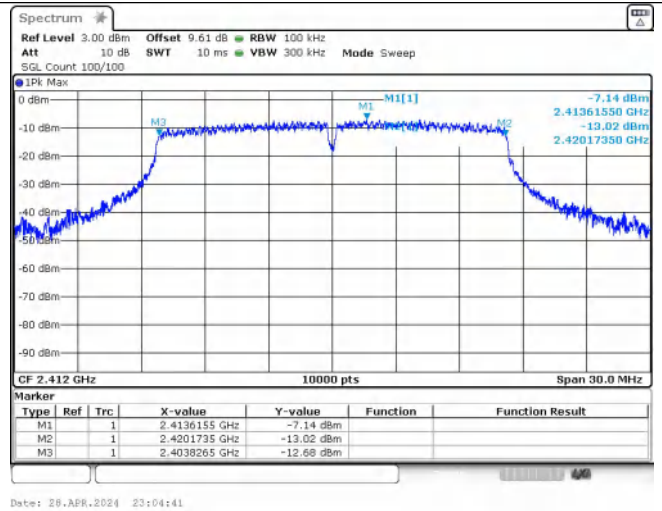


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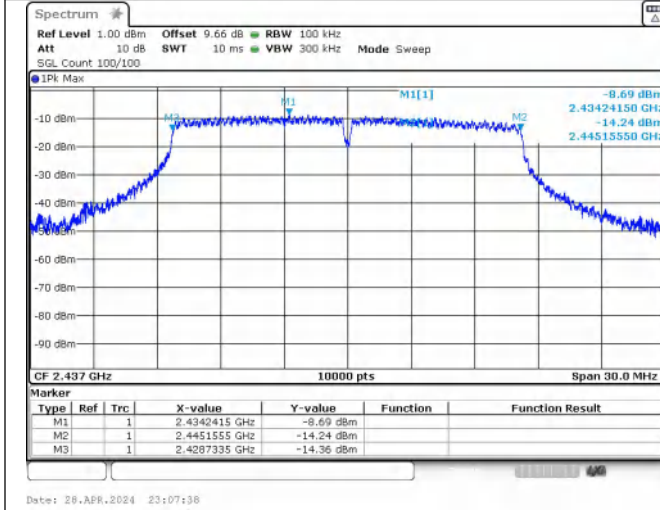
IEEE 802.11b_Channel 6_20MHz_Antenna 0



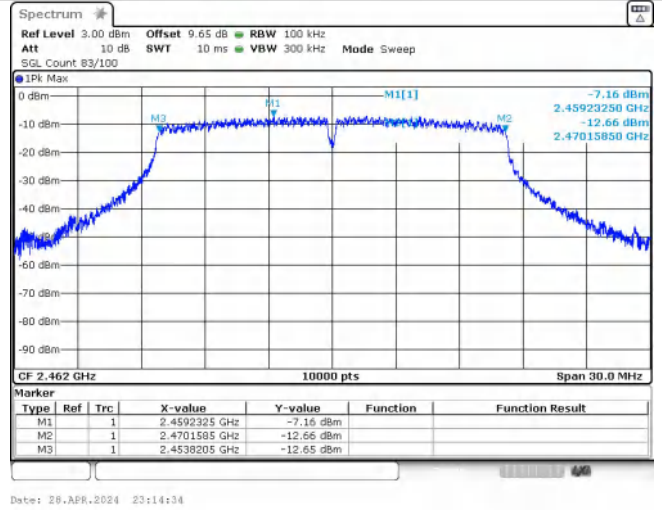
IEEE 802.11b_Channel 11_20MHz_Antenna 0



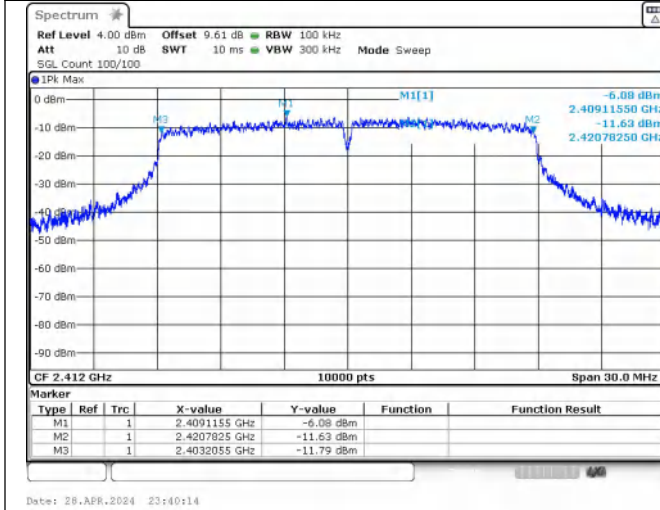
IEEE 802.11g_Channel 1_20MHz_Antenna 0



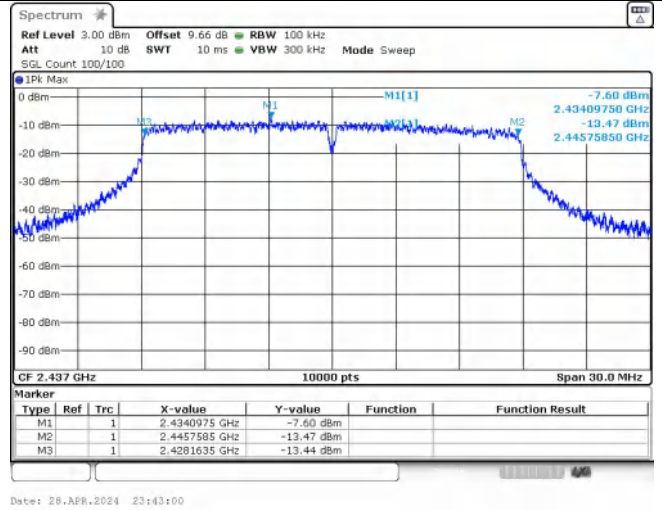
IEEE 802.11g_Channel 6_20MHz_Antenna 0



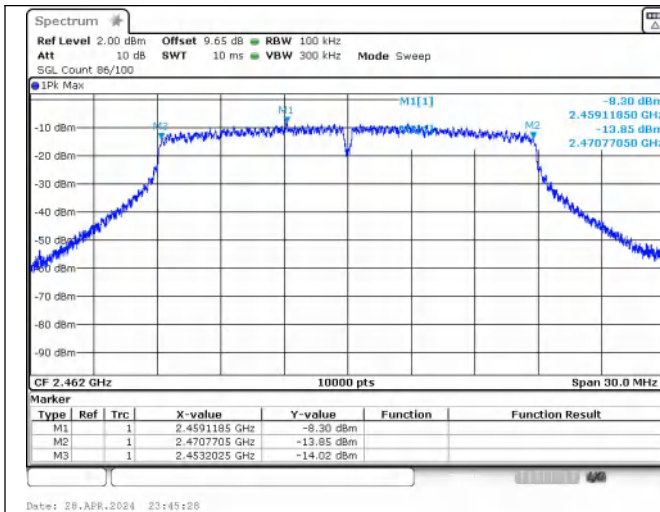
IEEE 802.11g_Channel 11_20MHz_Antenna 0



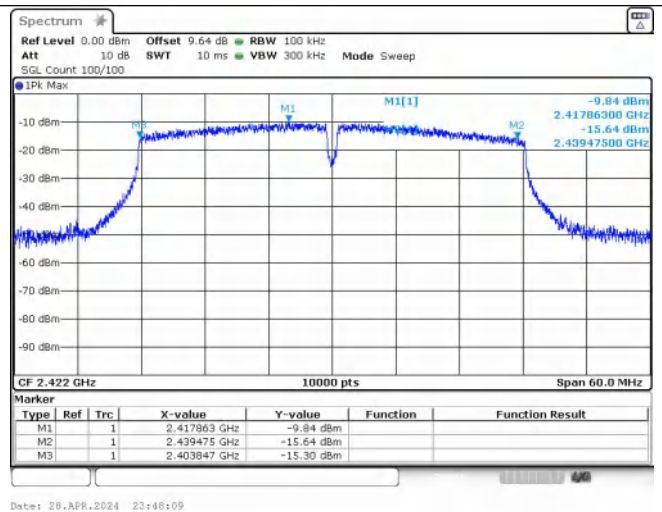
IEEE 802.11n_Channel 1_20MHz_Antenna 0



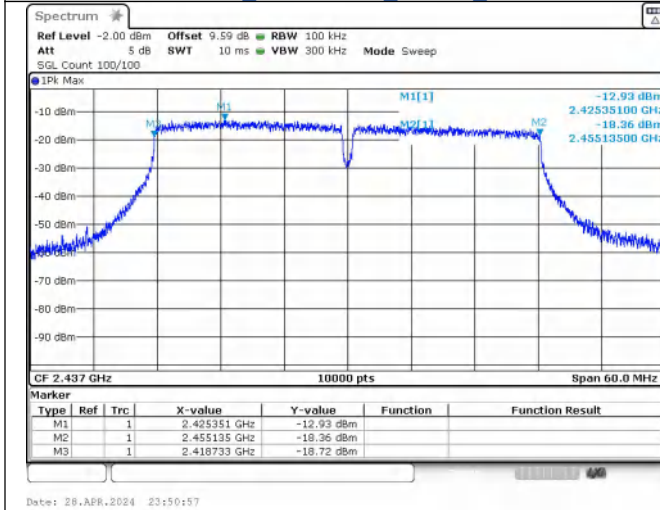
IEEE 802.11n_Channel 6_20MHz_Antenna 0



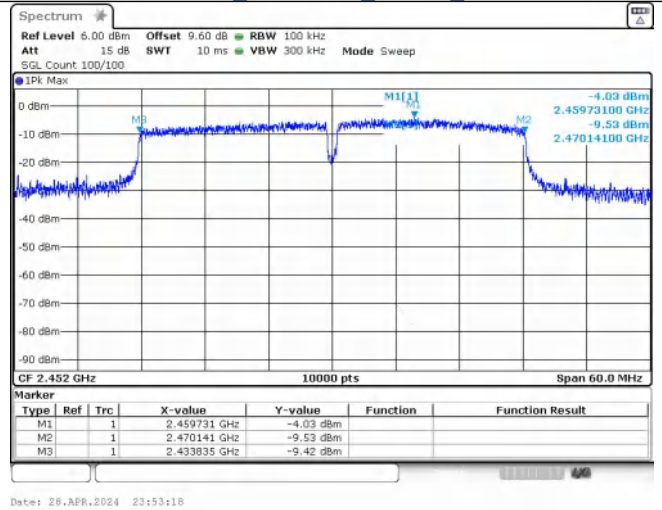
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0



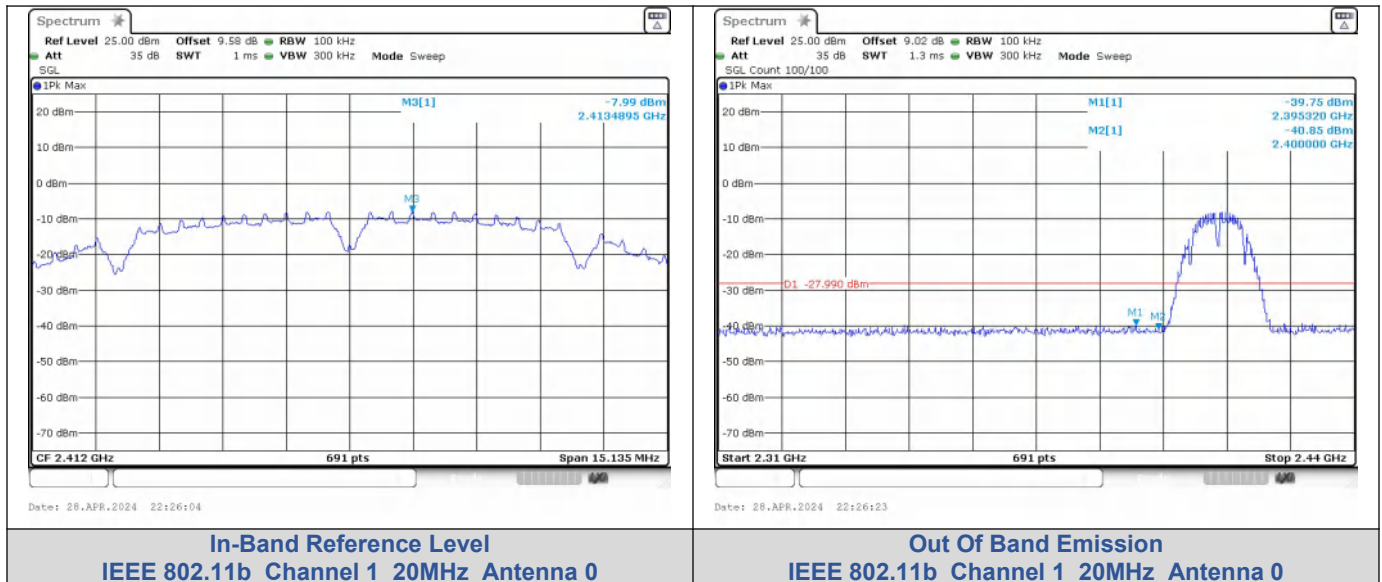
IEEE 802.11n_Channel 9_40MHz_Antenna 0

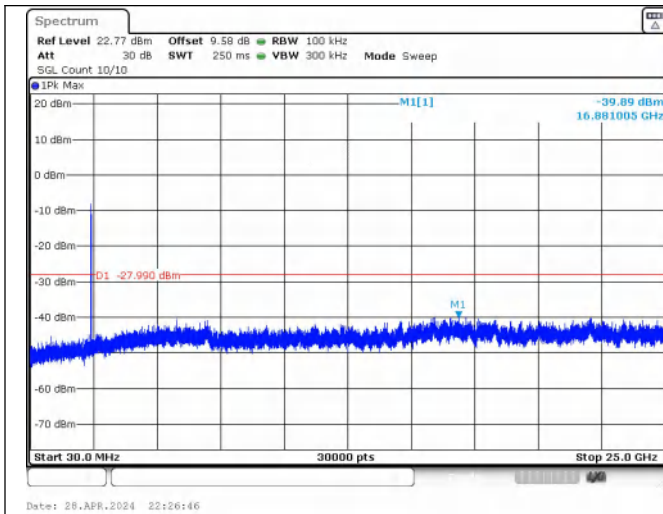
Conducted Out Of Band Emission

Test Result

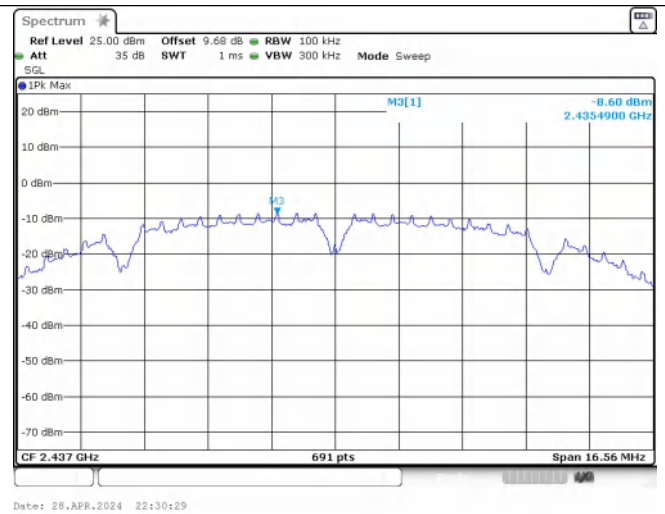
Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2400.00	-40.854	-27.99	-12.864	PASS
			2395.32	-39.748	-27.99	-11.758	PASS
	6		16881.0	-39.892	-27.99	-11.902	PASS
			16573.9	-39.027	-28.6	-10.427	PASS
	11		2483.50	-38.957	-27.56	-11.397	PASS
			22052.3	-39.616	-27.56	-12.056	PASS
IEEE 802.11g	1		2400.00	-38.620	-27.24	-11.380	PASS
			2398.70	-37.532	-27.24	-10.292	PASS
	6		18285.2	-39.609	-27.24	-12.369	PASS
			16537.3	-39.840	-28.91	-10.930	PASS
	11		2483.50	-41.394	-27.05	-14.344	PASS
			16925.1	-39.749	-27.05	-12.699	PASS
IEEE 802.11n_20	1		2400.00	-36.240	-25.99	-10.250	PASS
			16578.9	-39.872	-25.99	-13.882	PASS
	6		16771.1	-39.498	-27.94	-11.558	PASS
			2483.50	-40.998	-28.1	-12.898	PASS
	11		16343.3	-39.887	-28.1	-11.787	PASS
			2400.00	-39.846	-29.63	-10.216	PASS
IEEE 802.11n_40	3		2335.12	-38.834	-29.63	-9.204	PASS
			17277.2	-39.723	-29.63	-10.093	PASS
	6		16859.4	-39.398	-32.21	-7.188	PASS
			2483.50	-30.312	-24.52	-5.792	PASS
	9		18335.1	-38.787	-24.52	-14.267	PASS

Test Graphs

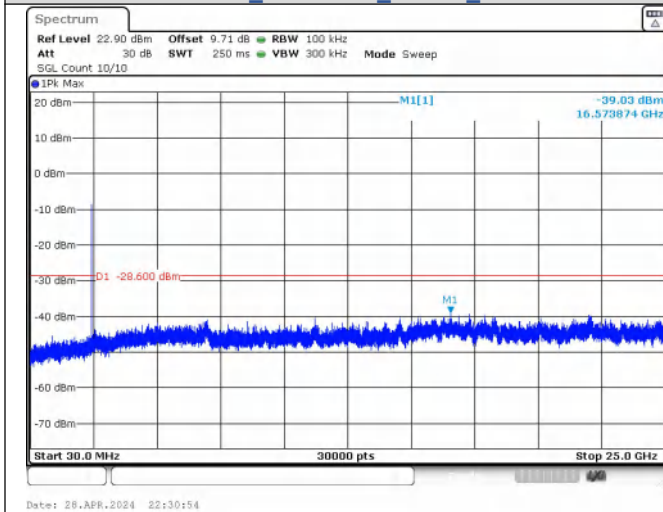




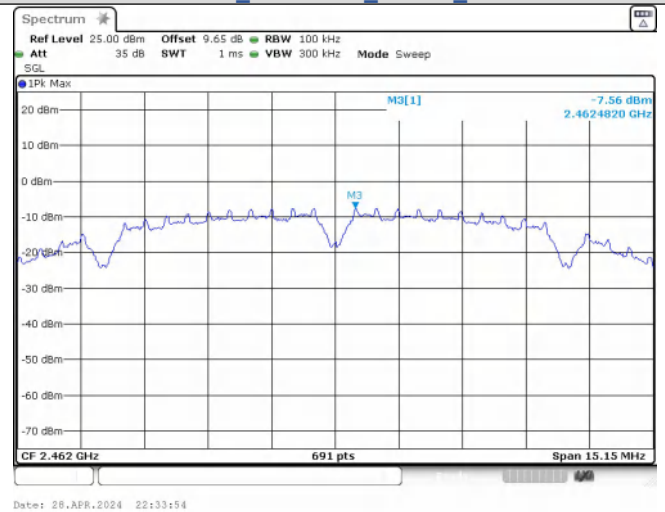
Spurious Emission
IEEE 802.11b_Channel 1_20MHz_Antenna 0



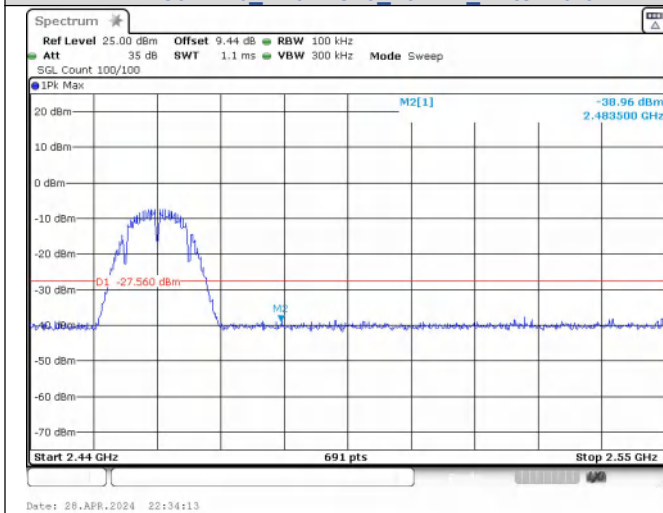
In-Band Reference Level
IEEE 802.11b_Channel 6_20MHz_Antenna 0



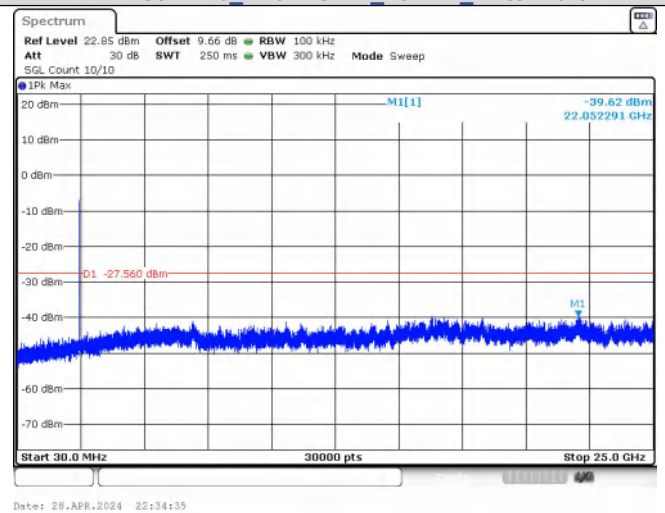
Spurious Emissions
IEEE 802.11b_Channel 6_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0

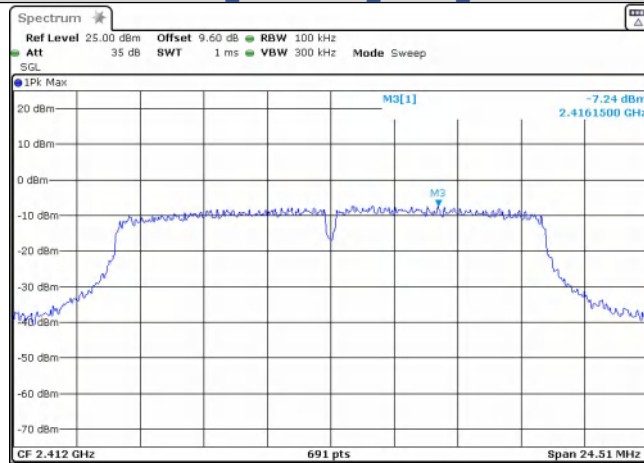


Out Of Band Emission



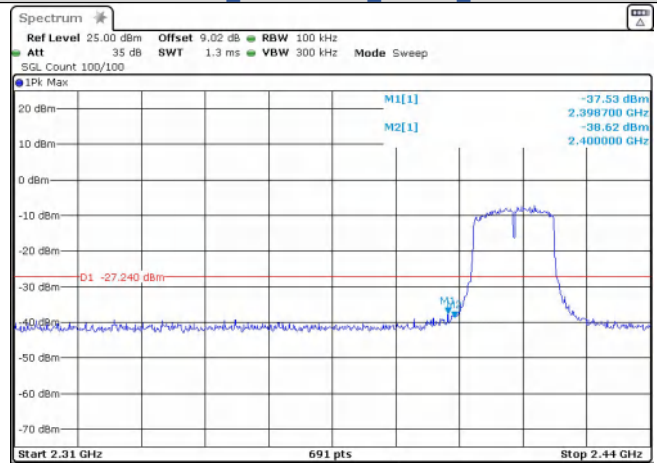
Spurious Emission

IEEE 802.11b Channel 11_20MHz_Antenna 0



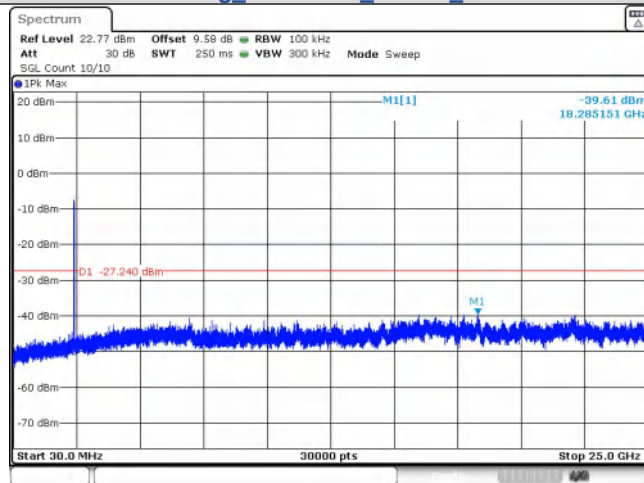
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IEEE 802.11b Channel 11_20MHz_Antenna 0



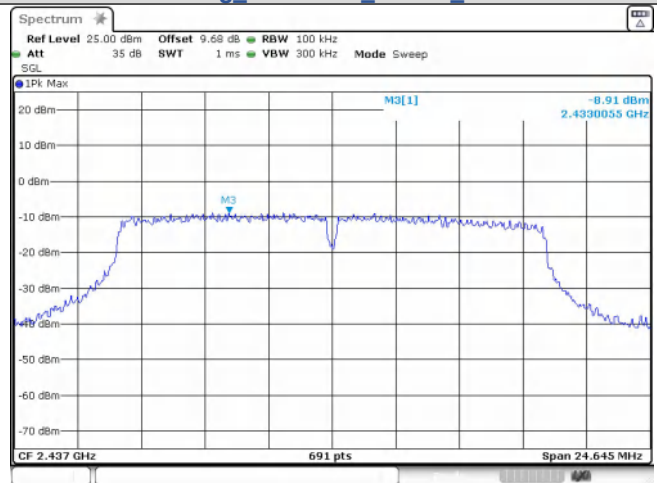
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In-Band Reference Level IEEE 802.11g_Channel 1_20MHz_Antenna 0



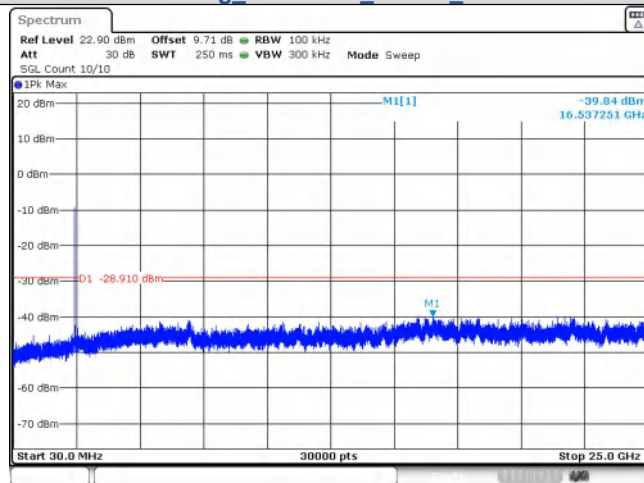
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Out Of Band Emission IEEE 802.11g_Channel 1_20MHz_Antenna 0



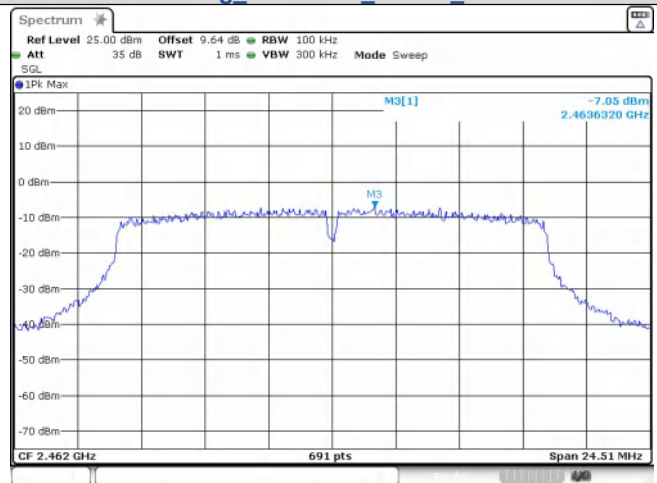
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Spurious Emission IEEE 802.11g_Channel 1_20MHz_Antenna 0

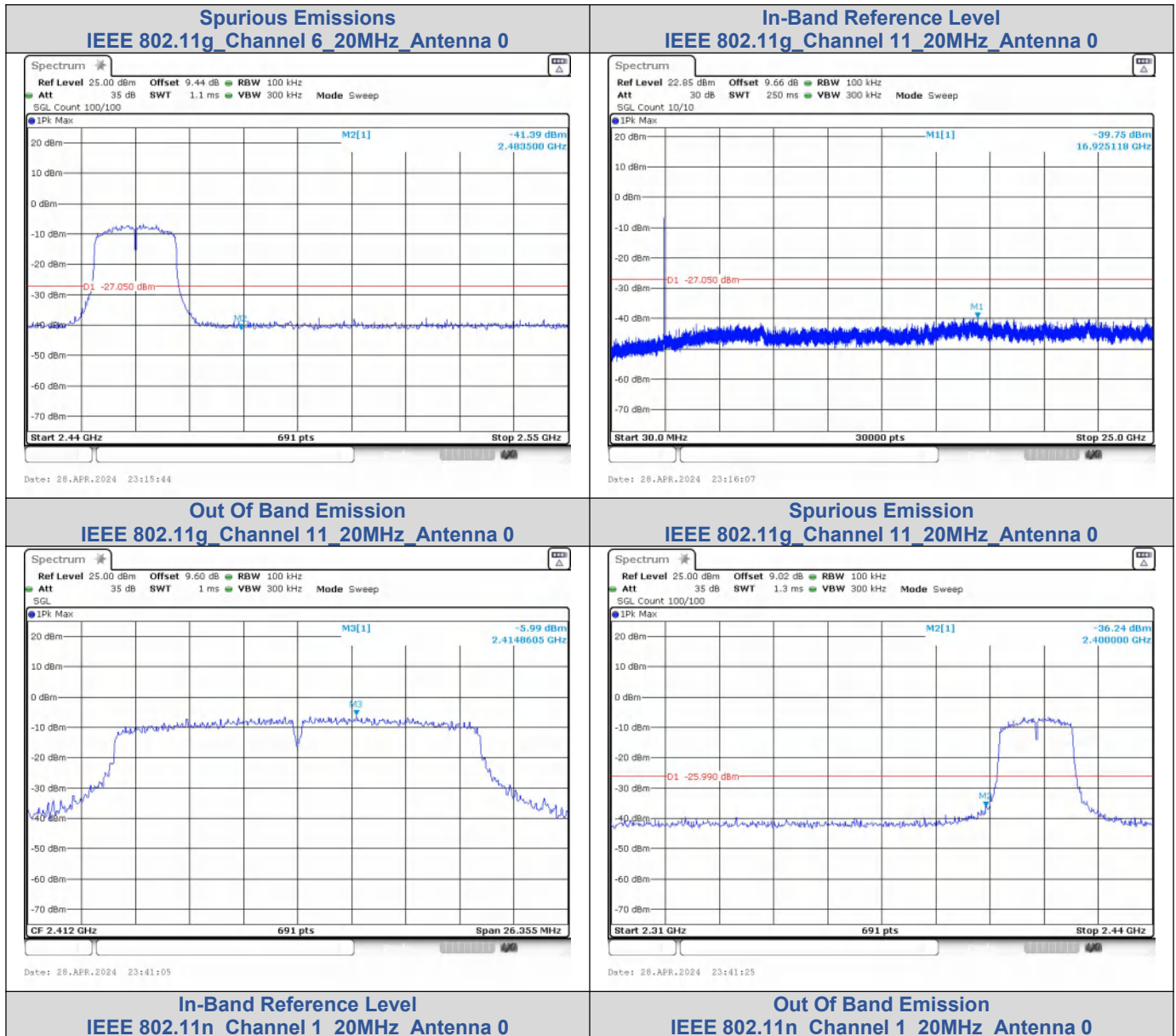


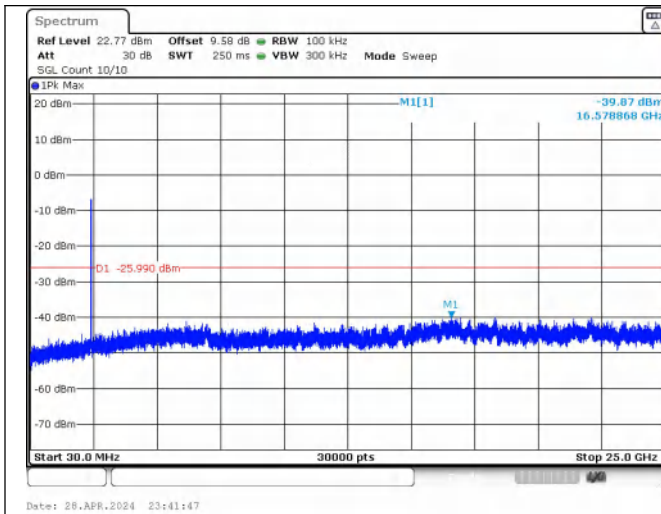
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In-Band Reference Level IEEE 802.11g_Channel 6_20MHz_Antenna 0

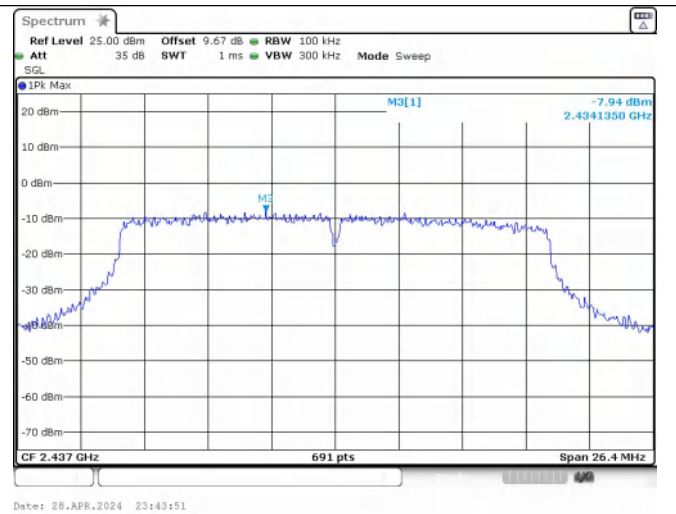


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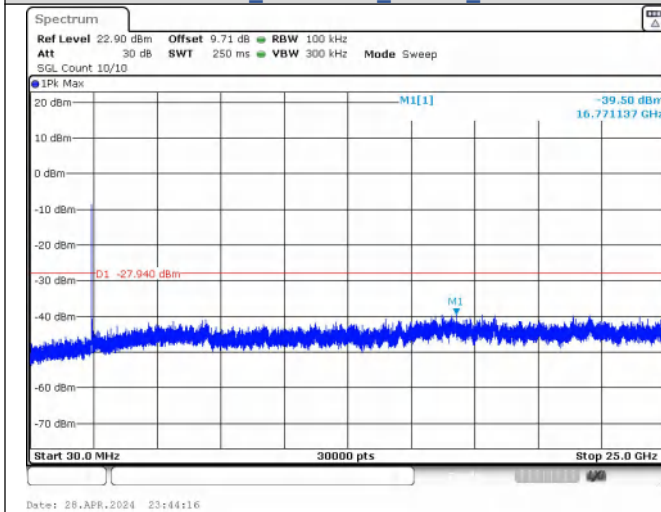




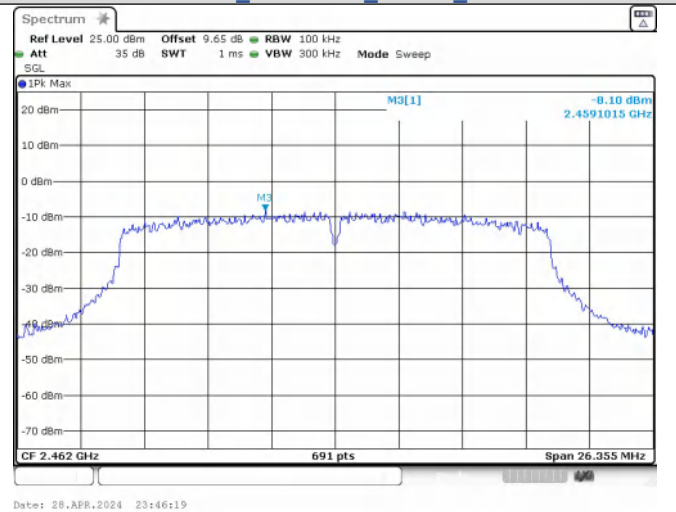
Spurious Emission
IEEE 802.11n Channel 1 20MHz Antenna 0



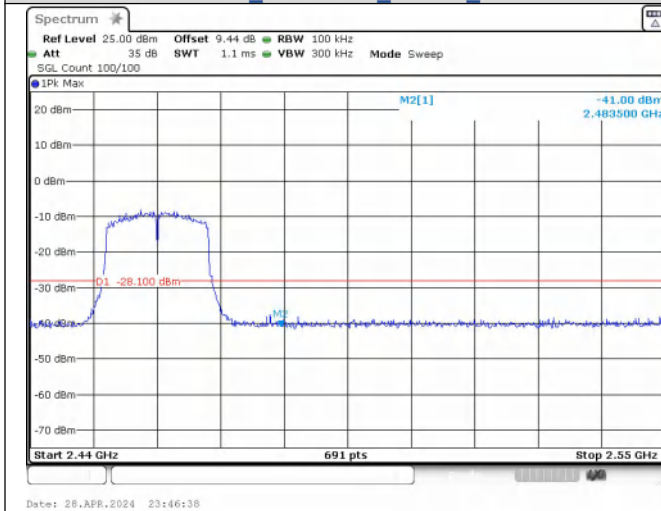
In-Band Reference Level
IEEE 802.11n Channel 6 20MHz Antenna 0



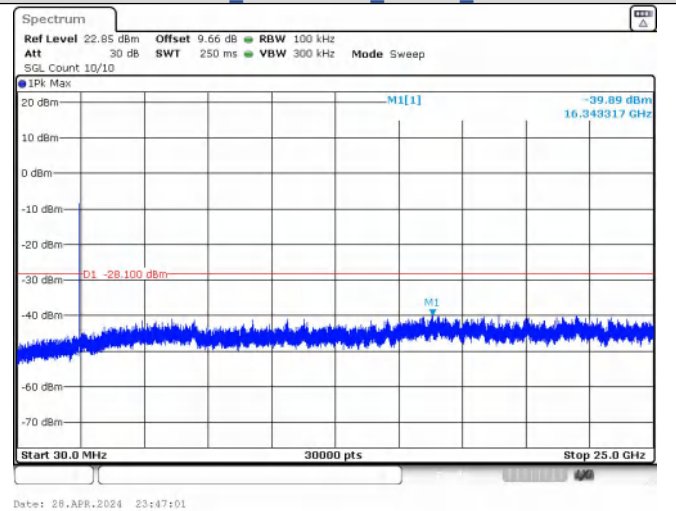
Spurious Emissions
IEEE 802.11n Channel 6 20MHz Antenna 0



In-Band Reference Level
IEEE 802.11n Channel 11 20MHz Antenna 0

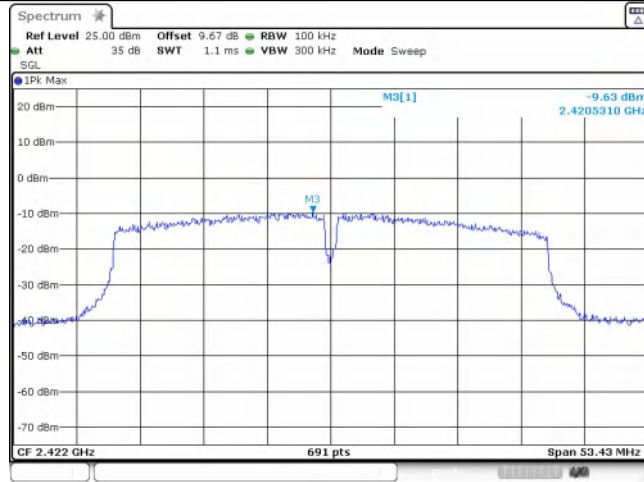


Out Of Band Emission



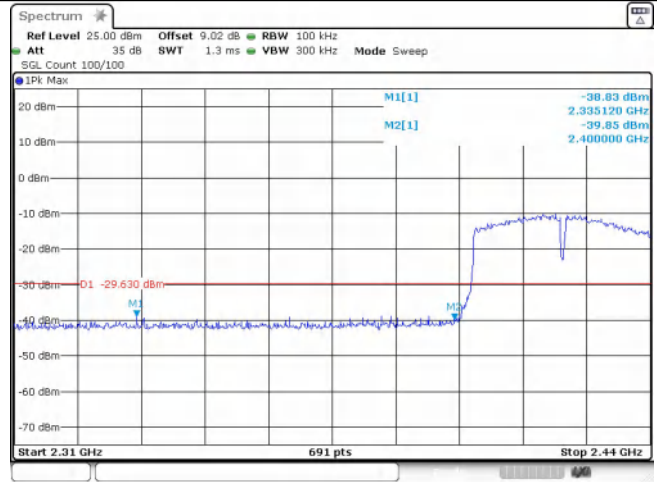
Spurious Emission

IEEE 802.11n Channel 11_20MHz_Antenna 0



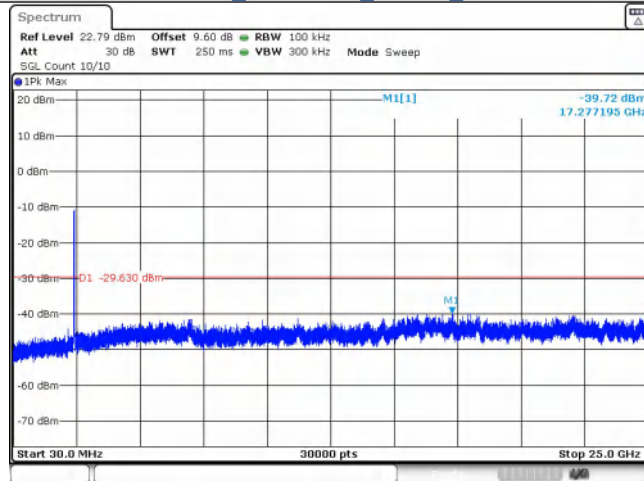
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IEEE 802.11n Channel 11_20MHz_Antenna 0



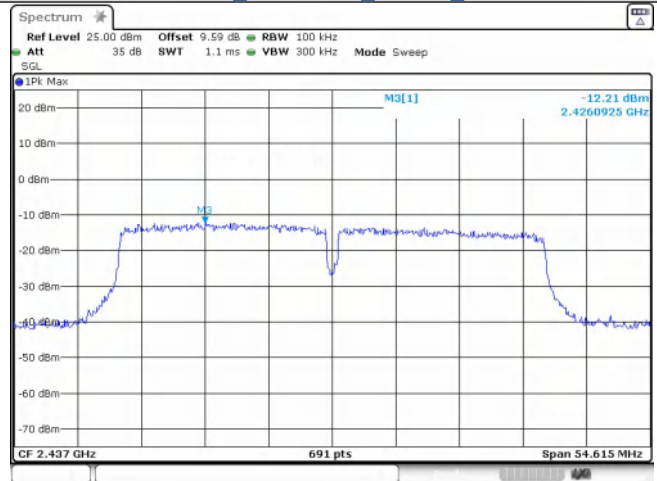
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In-Band Reference Level IEEE 802.11n Channel 3_40MHz_Antenna 0



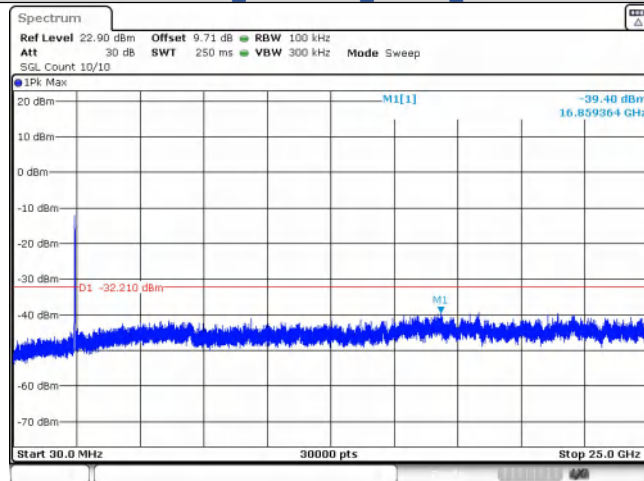
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Out Of Band Emission IEEE 802.11n Channel 3_40MHz_Antenna 0



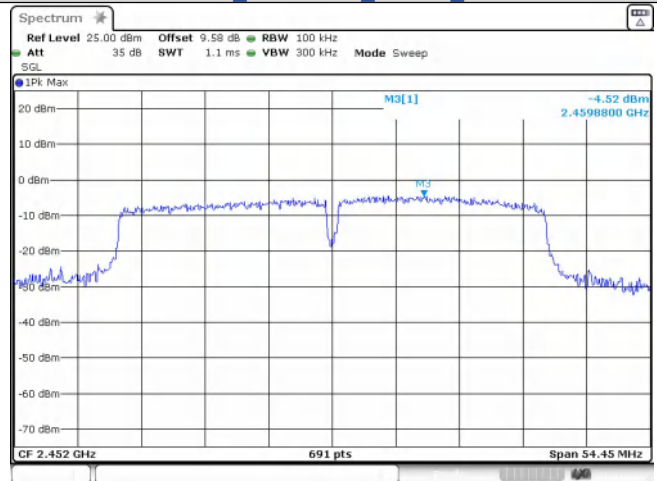
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Spurious Emission IEEE 802.11n Channel 3_40MHz_Antenna 0

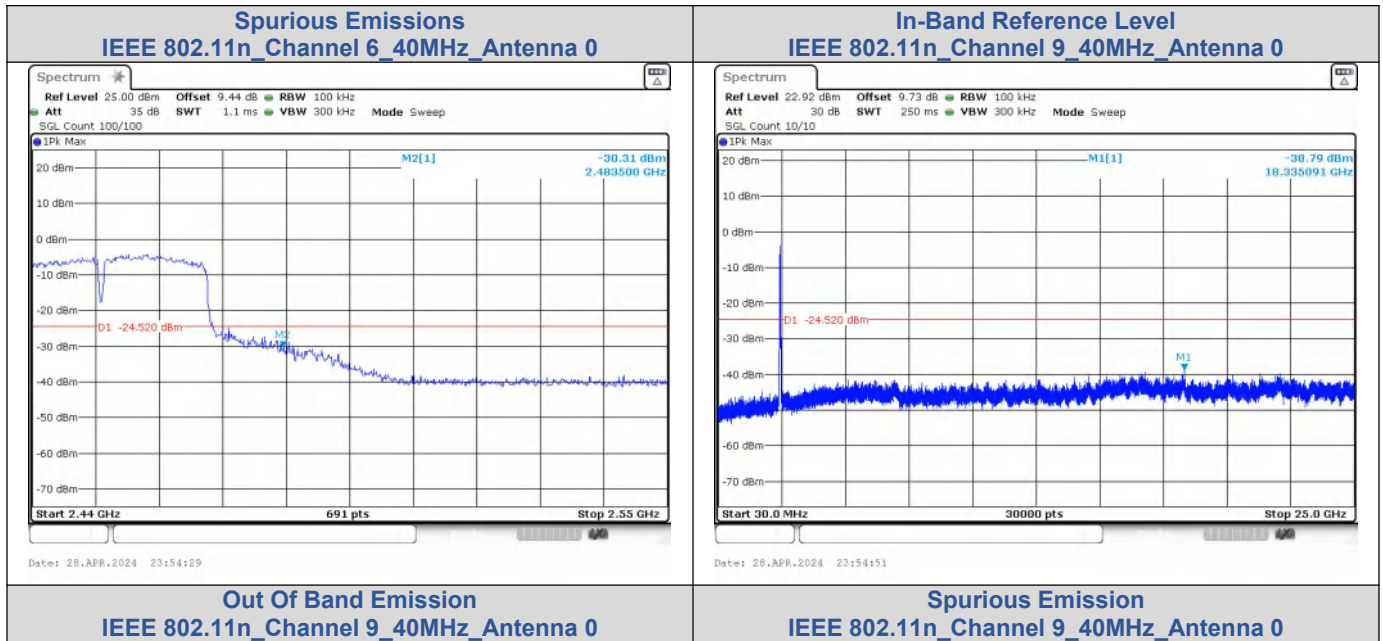


Date: 26.APR.2024 23:52:13

In-Band Reference Level IEEE 802.11n Channel 6_40MHz_Antenna 0



Date: 26.APR.2024 23:54:09

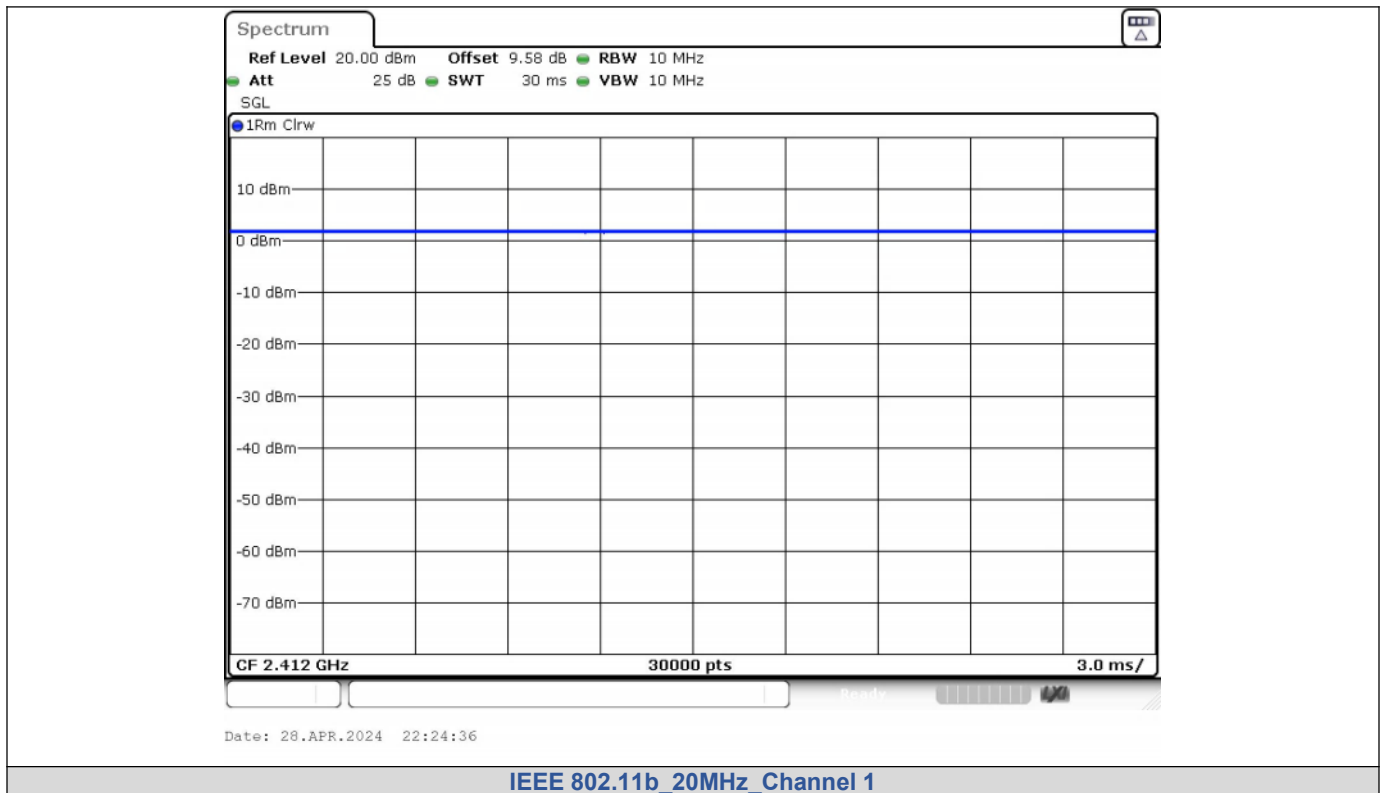


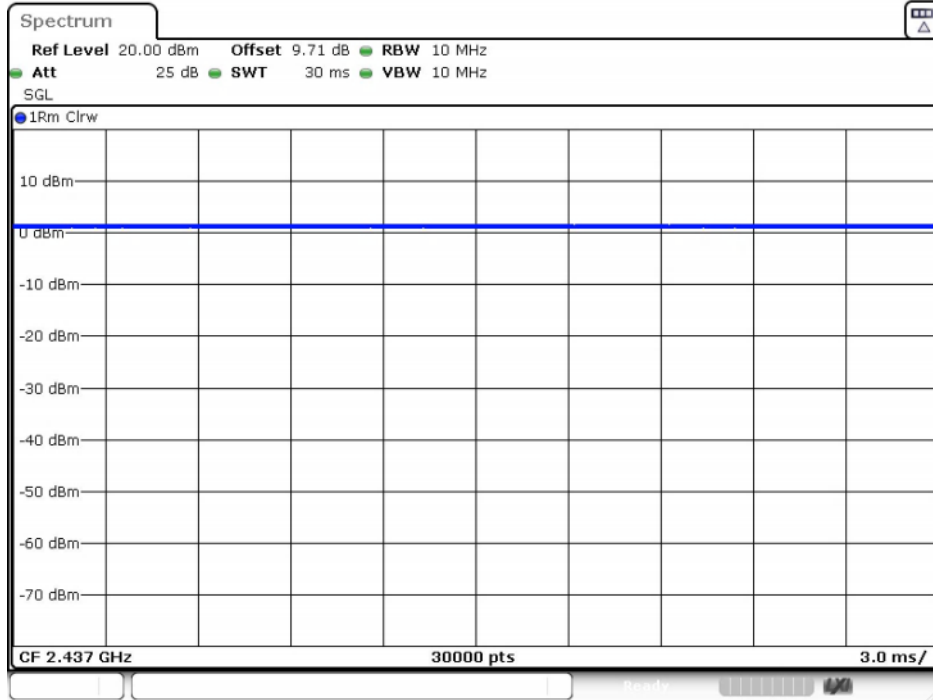
Duty Cycle

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	30.000	30.000	100	1	0.0	0.3
		6		30.000	30.000	100	1	0.0	0.3
		11		30.000	30.000	100	1	0.0	0.3
IEEE 802.11g		1		10.000	10.000	100	1	0.0	0.1
		6		10.000	10.000	100	1	0.0	0.1
		11		10.000	10.000	100	1	0.0	0.1
IEEE 802.11n_20	MCS 0	1		10.000	10.000	100	1	0.0	0.1
		6		10.000	10.000	100	1	0.0	0.1
		11		10.000	10.000	100	1	0.0	0.1
IEEE 802.11n_40		3		10.000	10.000	100	1	0.0	0.1
		6		10.000	10.000	100	1	0.0	0.1
		9		10.000	10.000	100	1	0.0	0.1

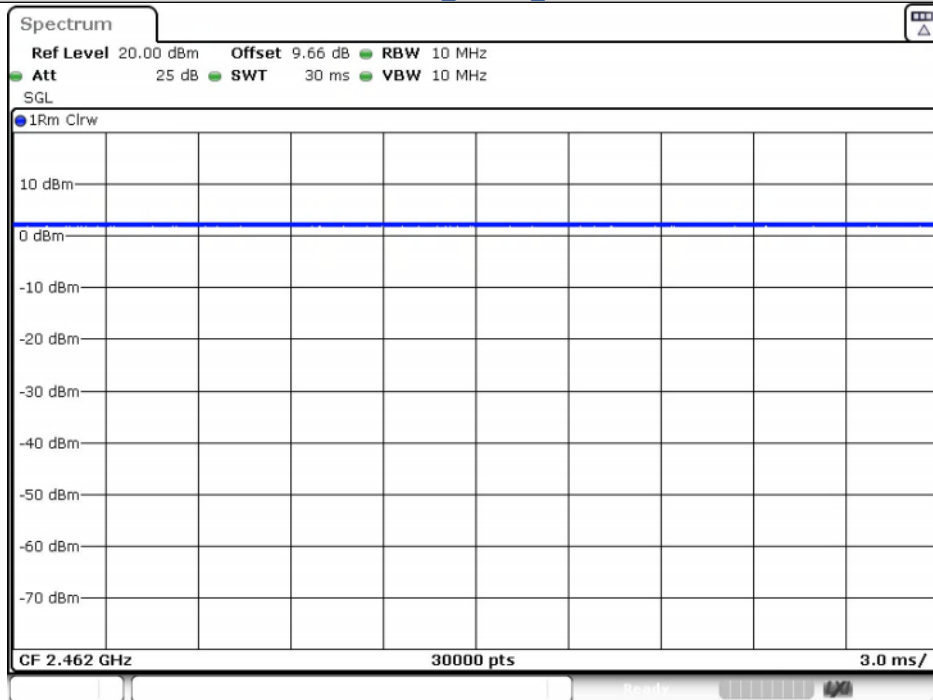
Test Graphs





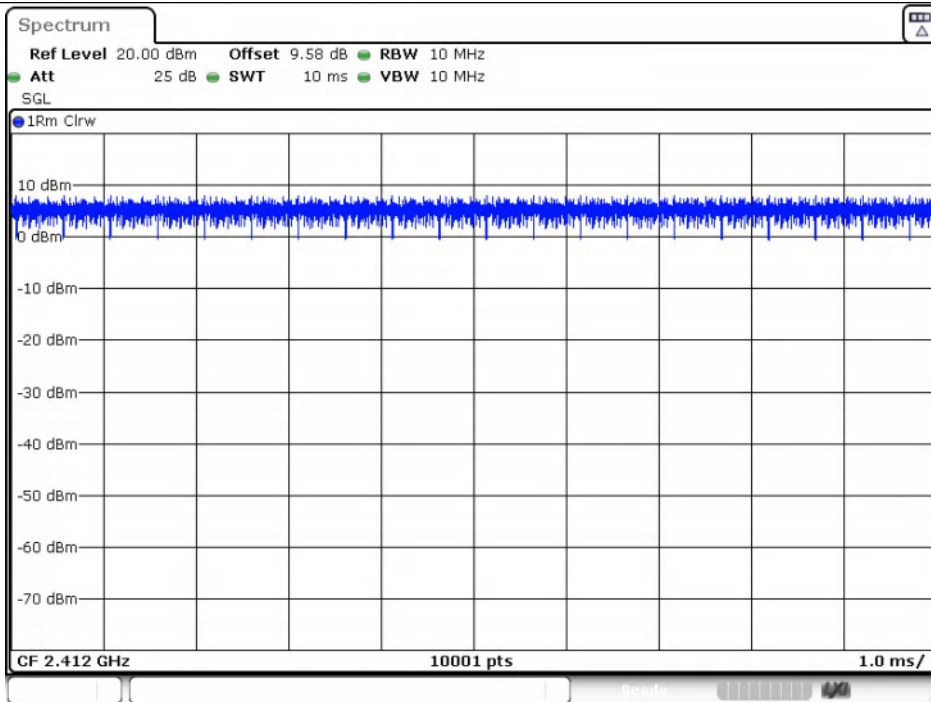
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IEEE 802.11b_20MHz_Channel 6



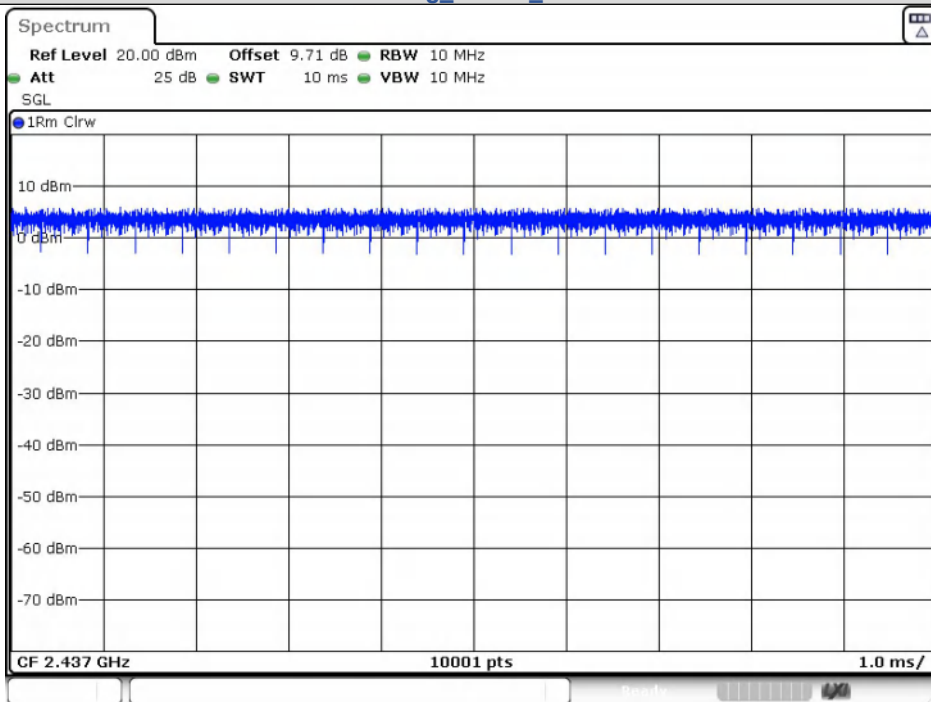
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IEEE 802.11b_20MHz_Channel 11



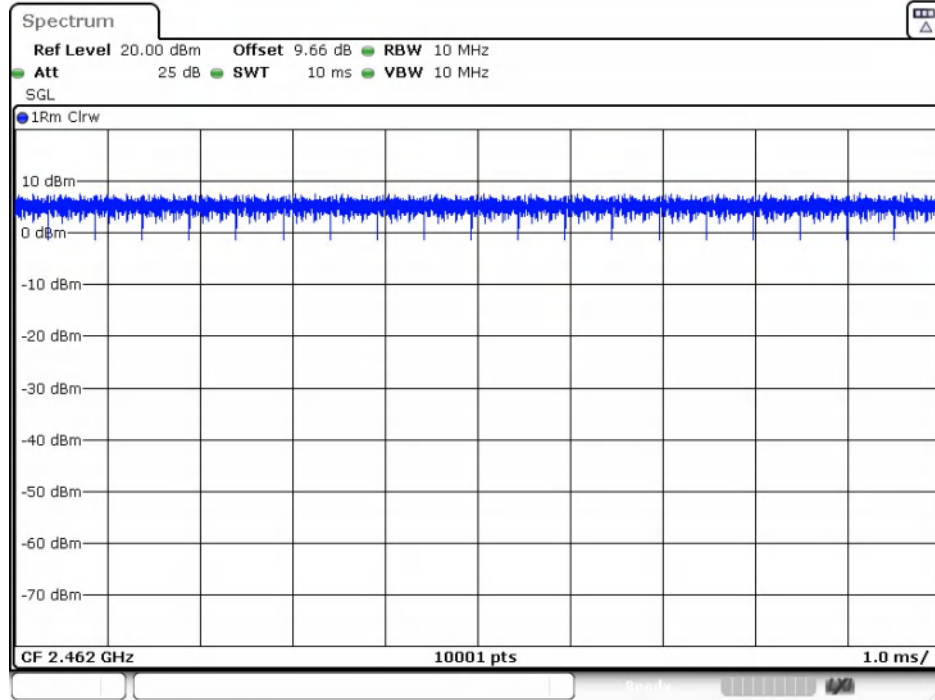
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IEEE 802.11g_20MHz_Channel 1



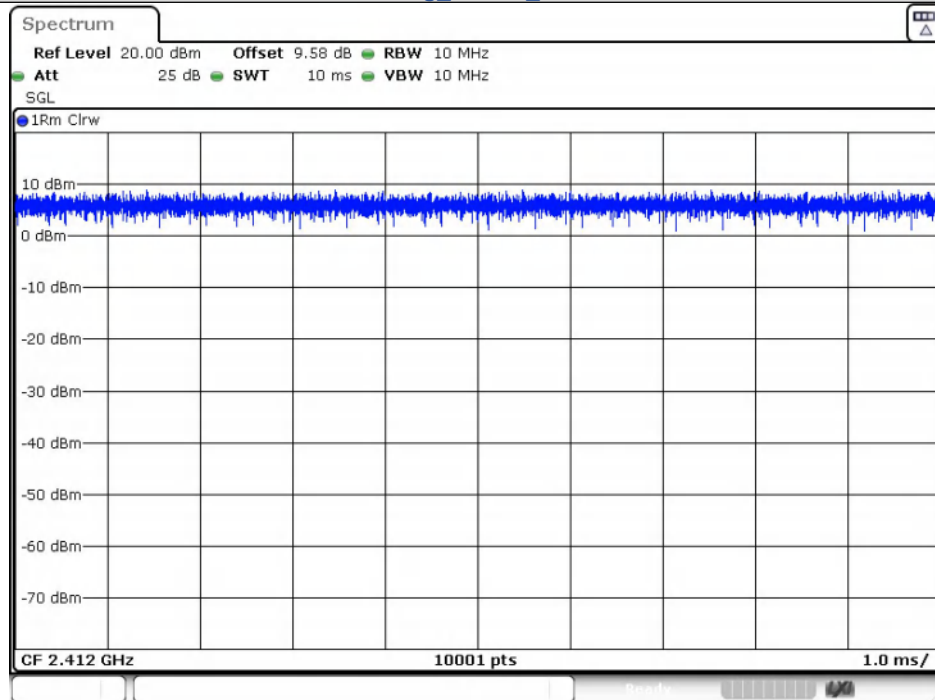
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IEEE 802.11g_20MHz_Channel 6



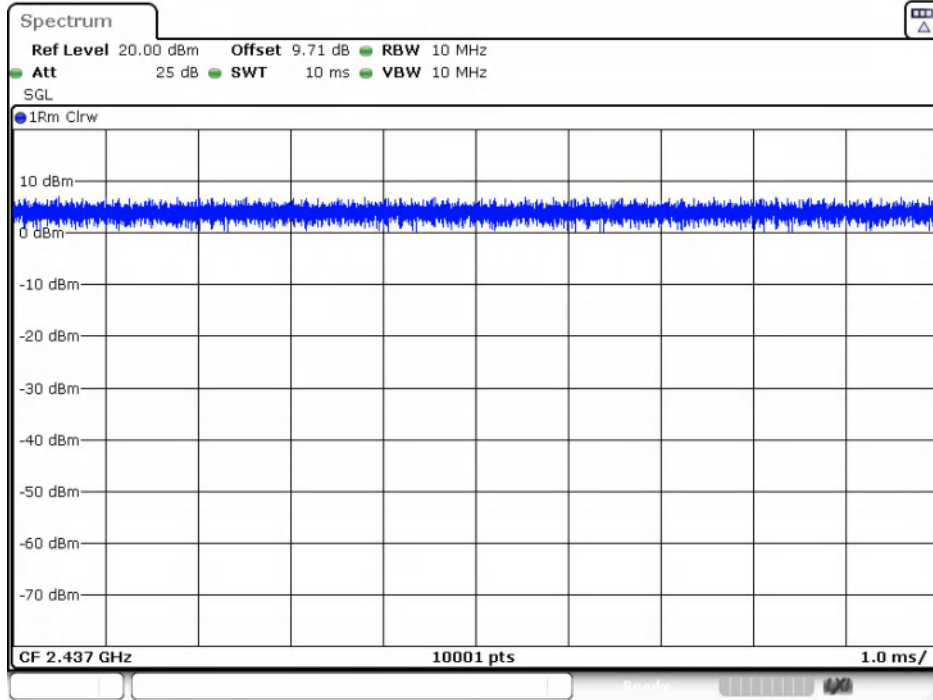
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IEEE 802.11g_20MHz_Channel 11



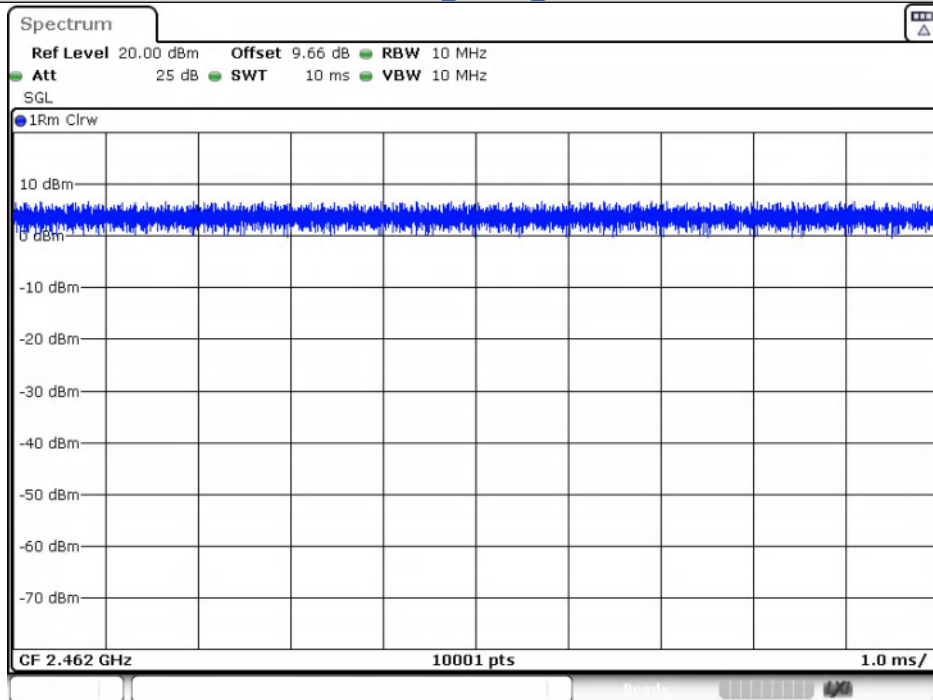
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IEEE 802.11n_20MHz_Channel 1



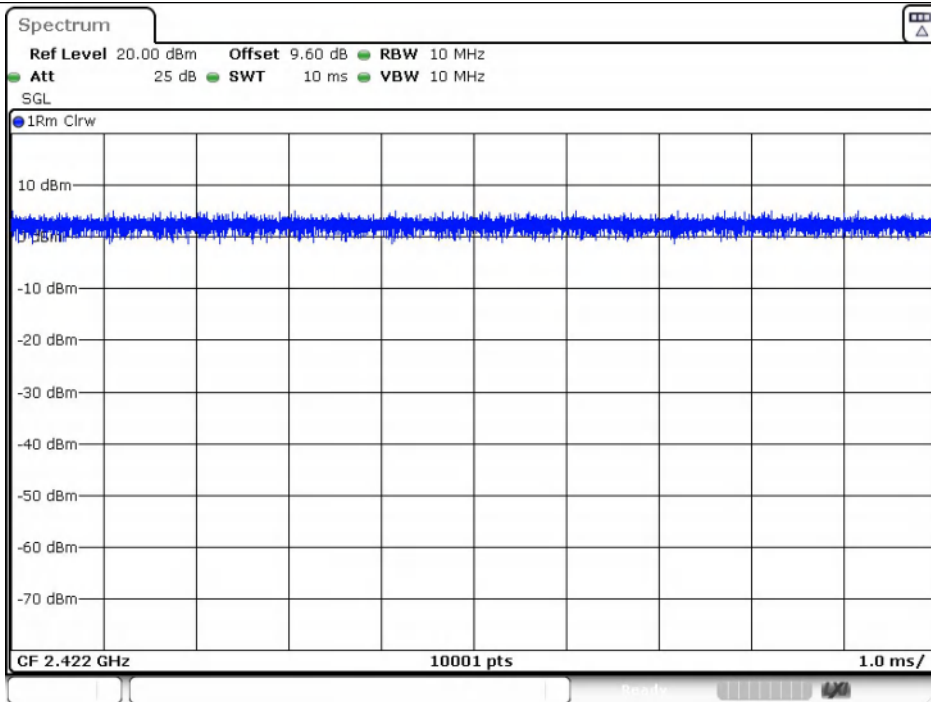
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IEEE 802.11n_20MHz_Channel 6



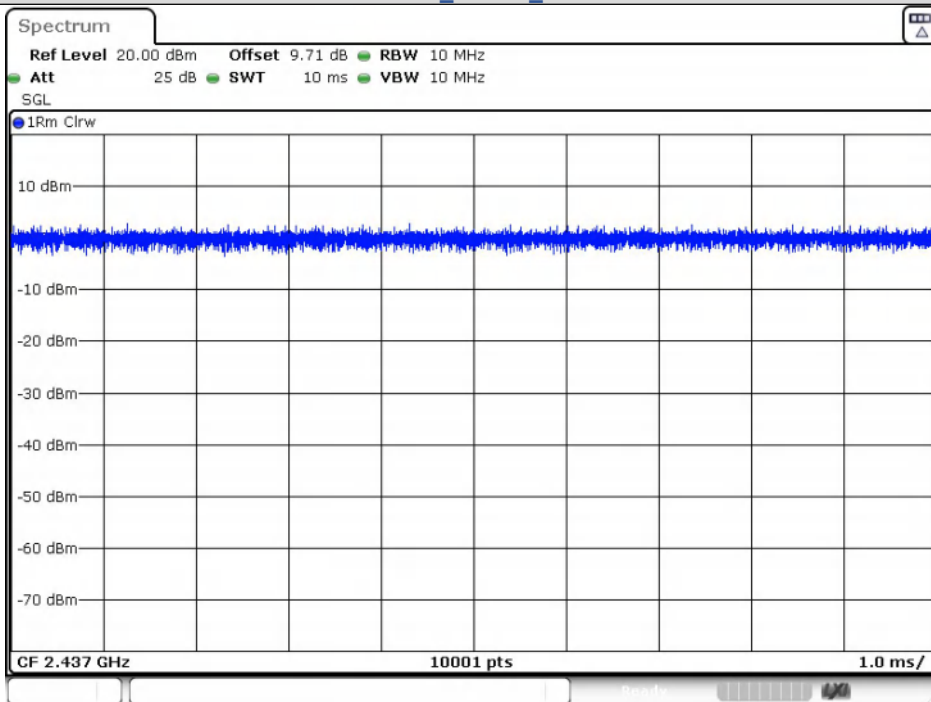
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IEEE 802.11n_20MHz_Channel 11



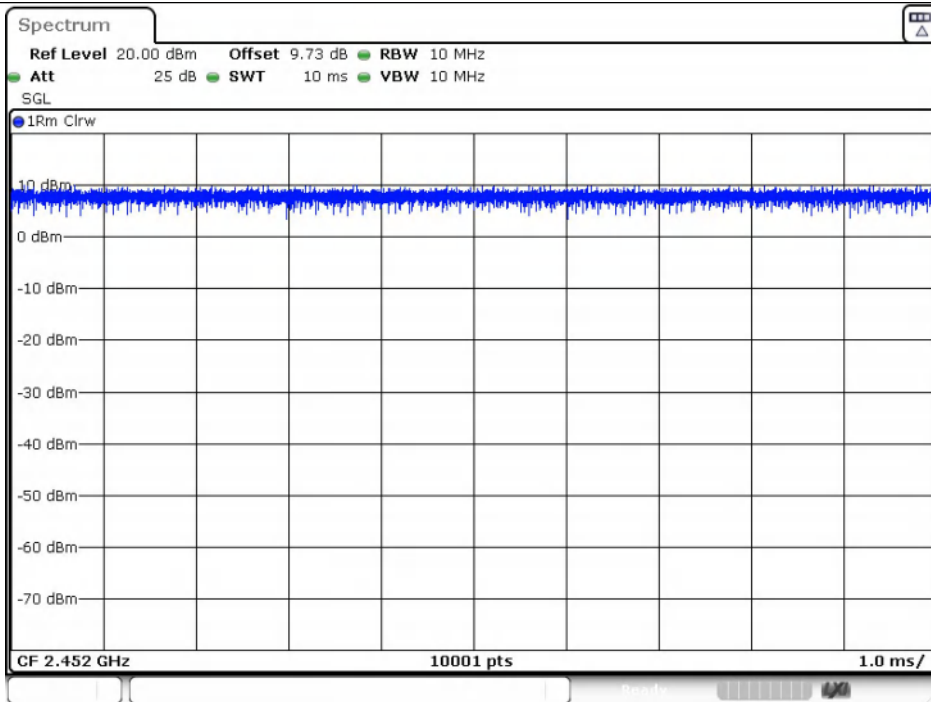
Date: 28.APR.2024 23:47:33

IEEE 802.11n_40MHz_Channel 3



Date: 28.APR.2024 23:50:20

IEEE 802.11n_40MHz_Channel 6



Date: 28.APR.2024 23:52:41

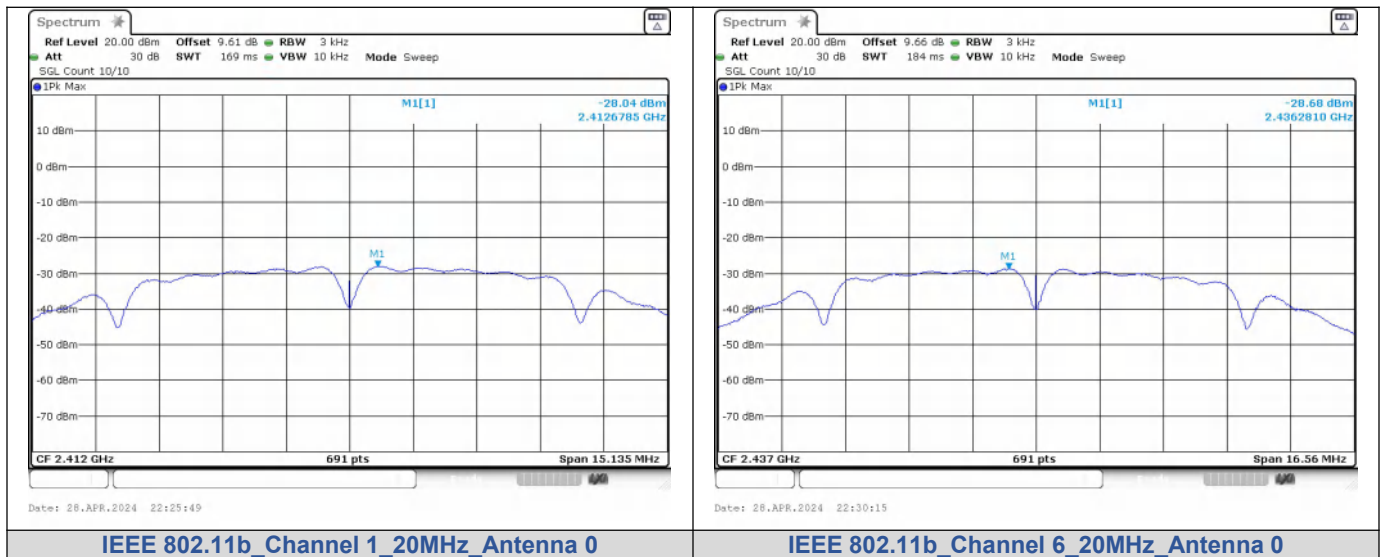
IEEE 802.11n_40MHz_Channel 9

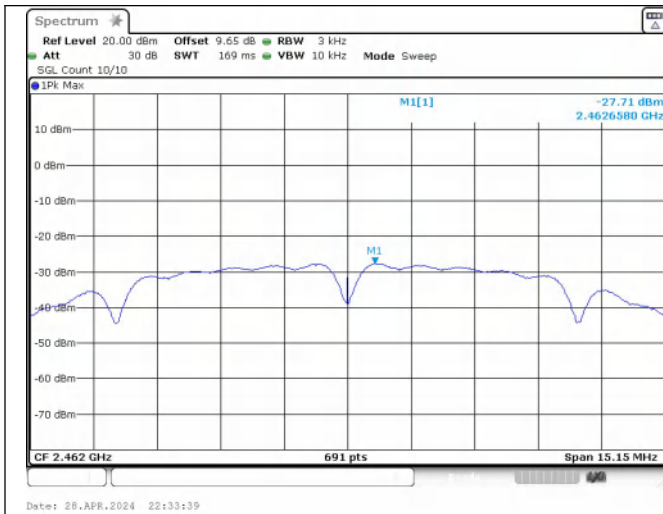
Power Spectral Density

Test Result

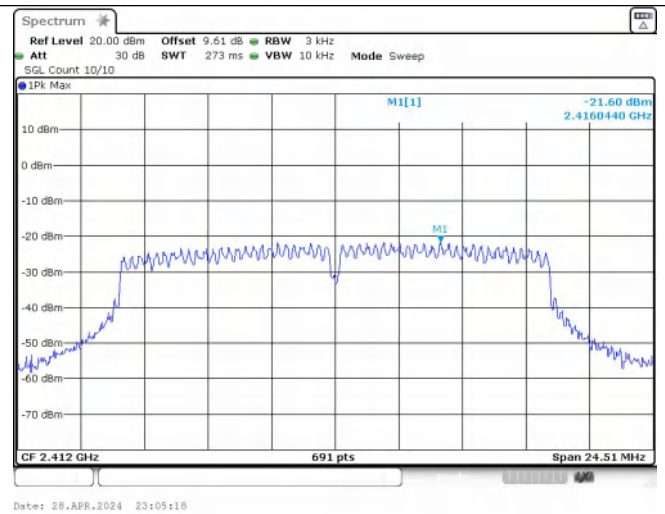
Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-28.042	8	PASS
	6	-28.685		PASS
	11	-27.711		PASS
IEEE 802.11g	1	-21.602		PASS
	6	-22.769		PASS
	11	-21.360		PASS
IEEE 802.11n_20	1	-19.557		PASS
	6	-21.986		PASS
	11	-21.467		PASS
IEEE 802.11n_40	3	-22.778		PASS
	6	-24.728		PASS
	9	-15.898		PASS

Test Graphs

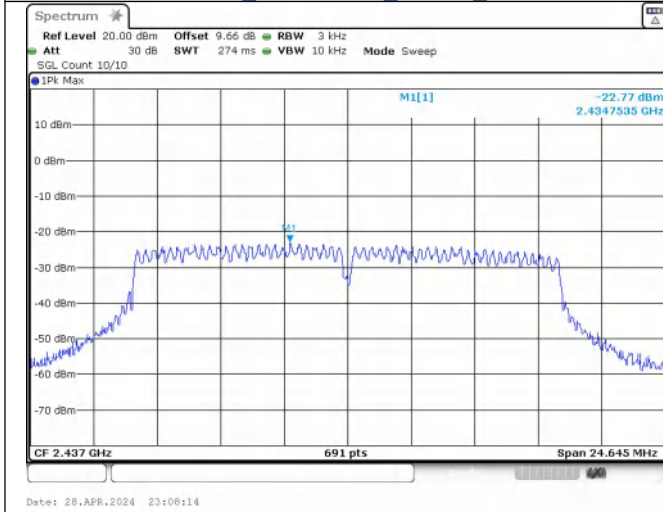




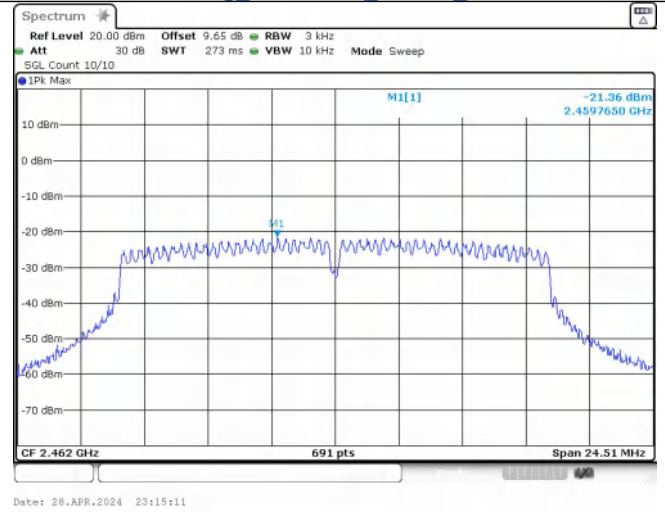
IEEE 802.11b_Channel 11_20MHz_Antenna 0



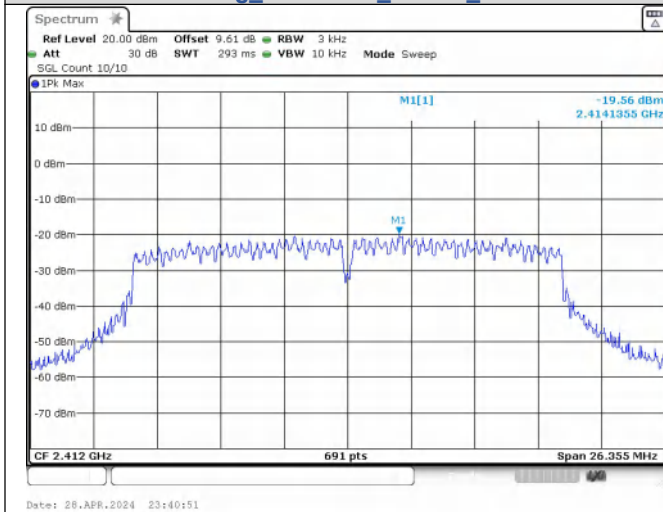
IEEE 802.11g_Channel 1_20MHz_Antenna 0



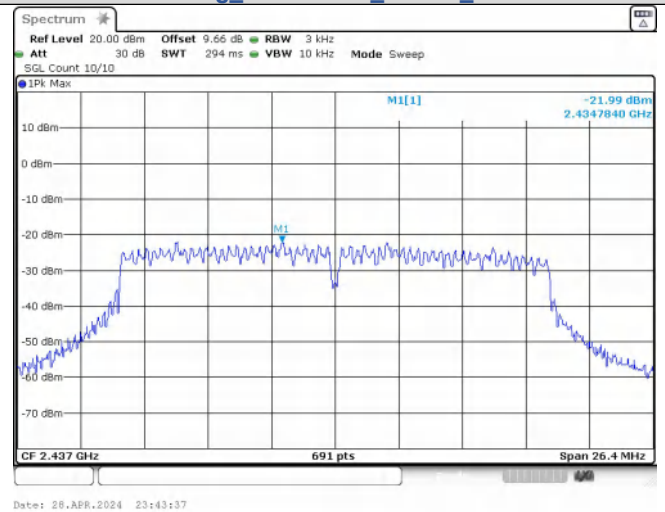
IEEE 802.11g_Channel 6_20MHz_Antenna 0



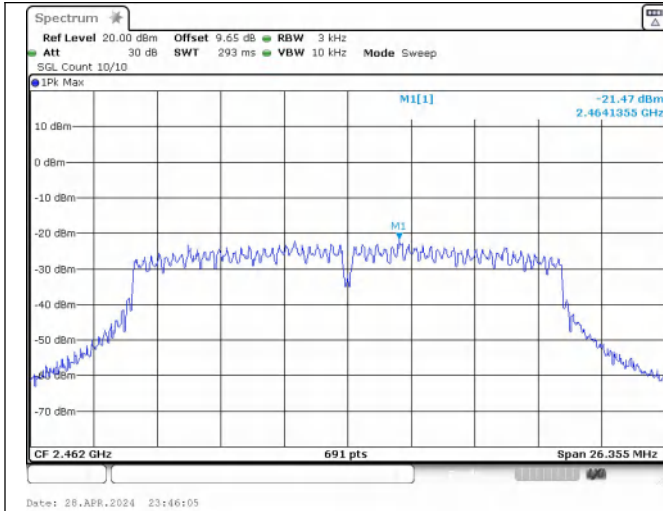
IEEE 802.11g_Channel 11_20MHz_Antenna 0



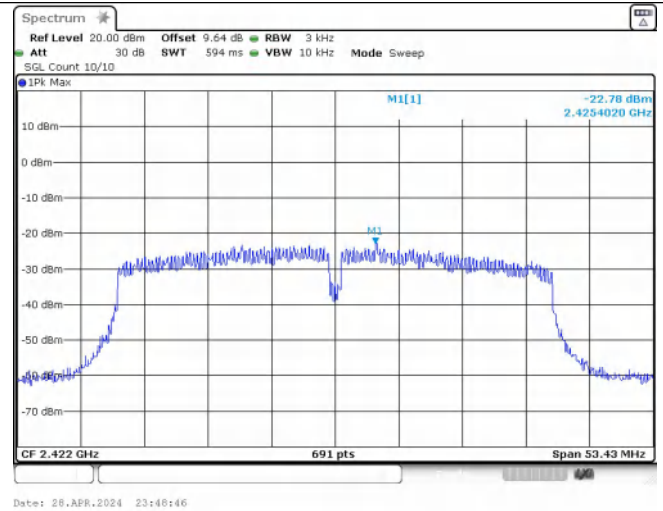
IEEE 802.11n_Channel 1_20MHz_Antenna 0



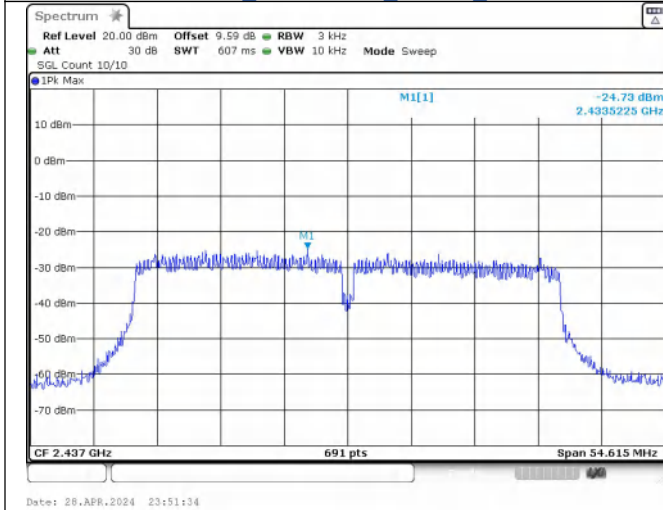
IEEE 802.11n_Channel 6_20MHz_Antenna 0



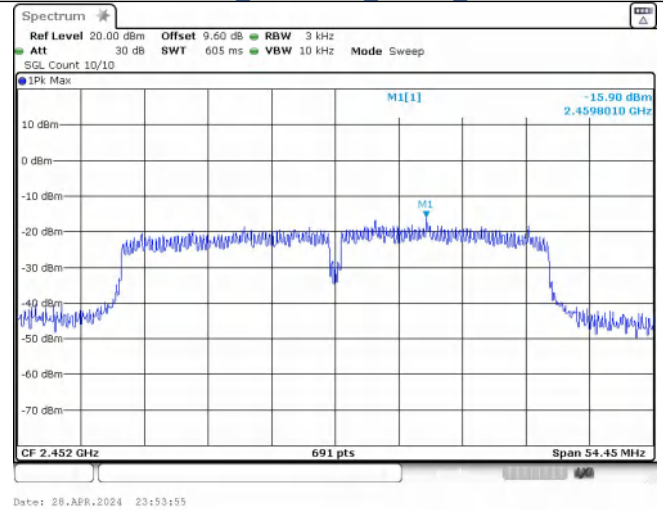
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0



IEEE 802.11n_Channel 9_40MHz_Antenna 0