

Appendix A

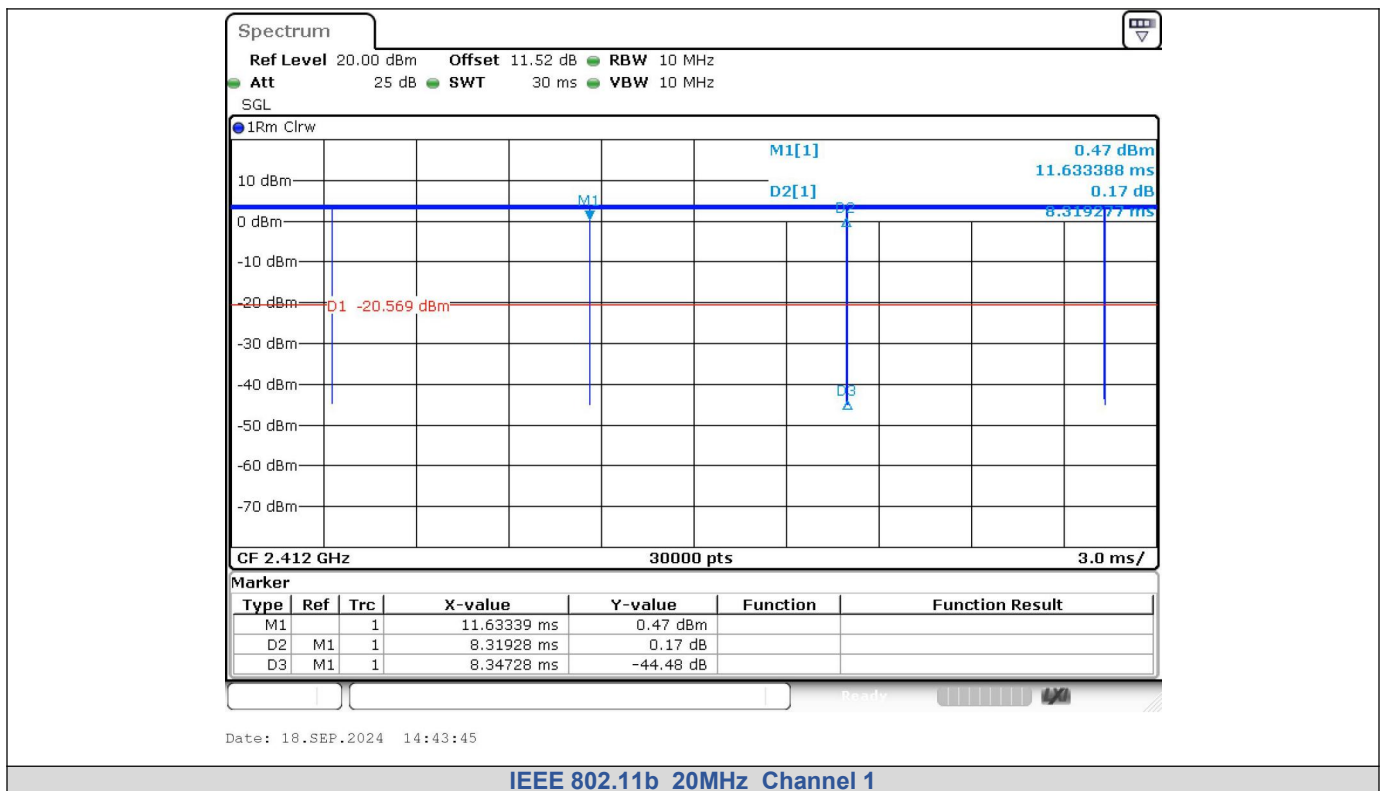
Report No.:	CISRR240911095
FCC ID:	2BFT7-Z16
Product Name:	Intelligent monitor
Model No.:	Z16
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

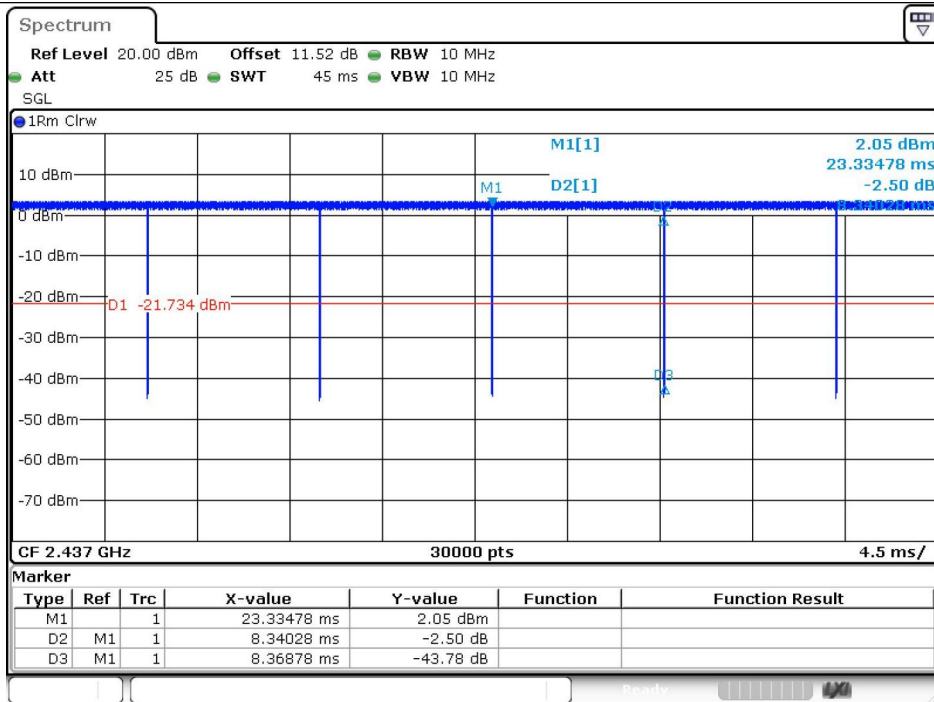
Duty Cycle

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	0.12
		6		8.340	8.369	99.66	0.9966	0.0148	0.12
		11		8.319	8.348	99.65	0.9965	0.0152	0.12
1		1.396		1.429	97.69	0.9769	0.1015	0.72	
6		1.396		1.429	97.69	0.9769	0.1015	0.72	
11		1.396		1.430	97.62	0.9762	0.1046	0.72	
IEEE 802.11n_20	MCS 0	1		1.304	1.338	97.46	0.9746	0.1117	0.77
		6		1.293	1.327	97.44	0.9744	0.1126	0.77
		11		1.293	1.327	97.44	0.9744	0.1126	0.77
3		0.650		0.684	95.00	0.9500	0.2228	1.54	
6		0.650		0.684	94.94	0.9494	0.2255	1.54	
9		0.650		0.684	95.00	0.9500	0.2228	1.54	
IEEE 802.11n_40									

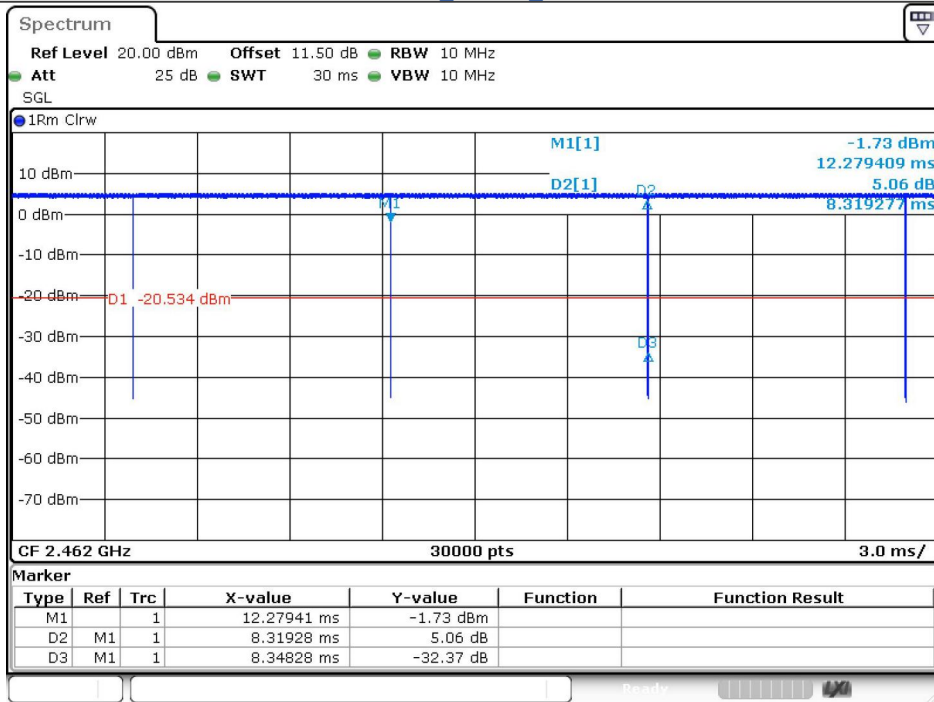
Test Graphs





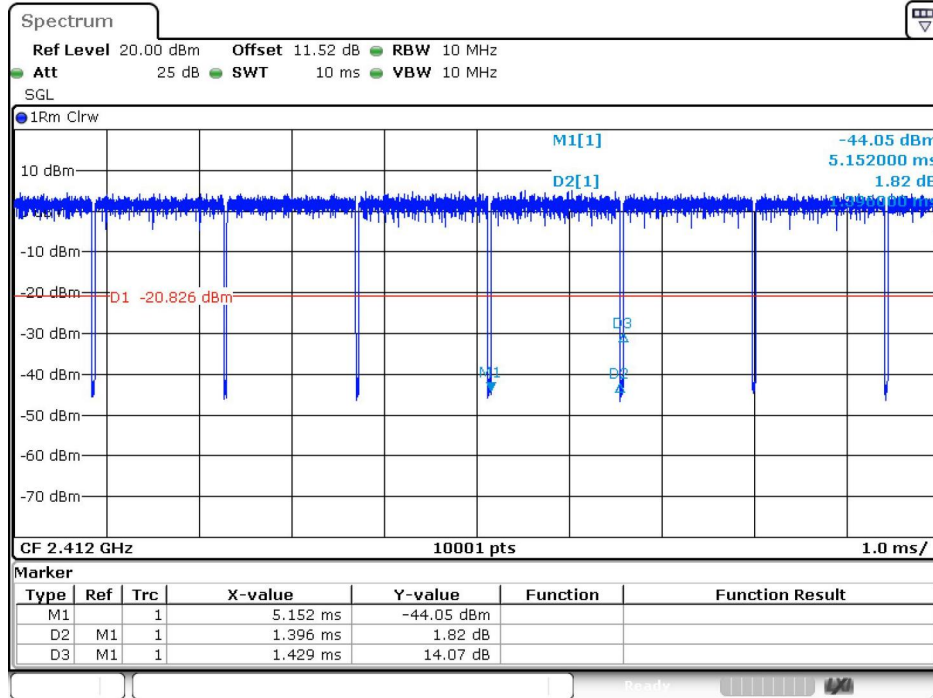
Date: 18.SEP.2024 14:48:30

IEEE 802.11b_20MHz_Channel 6



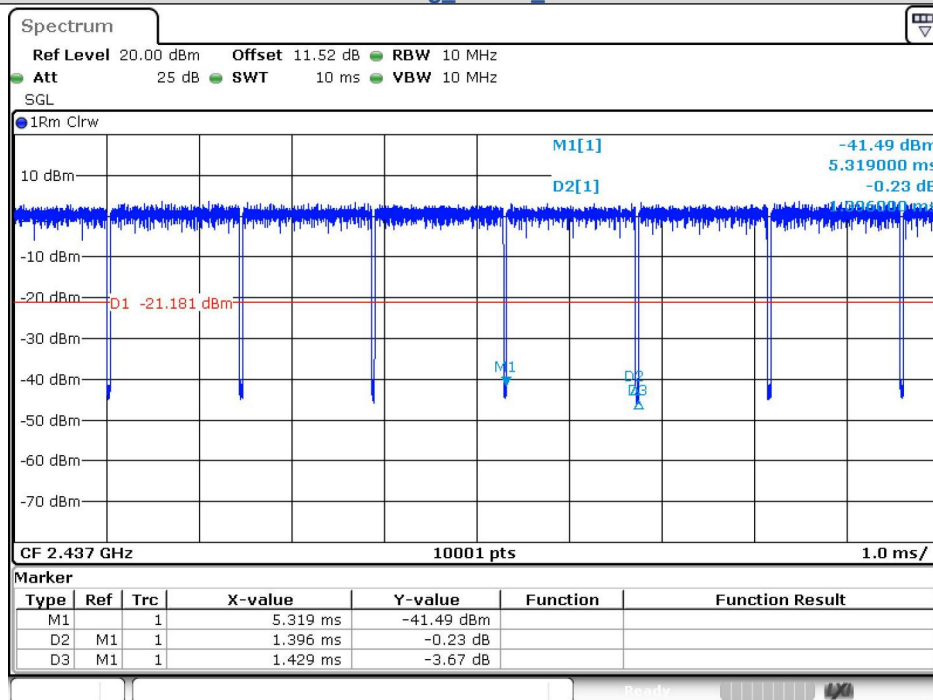
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IEEE 802.11b_20MHz_Channel 11



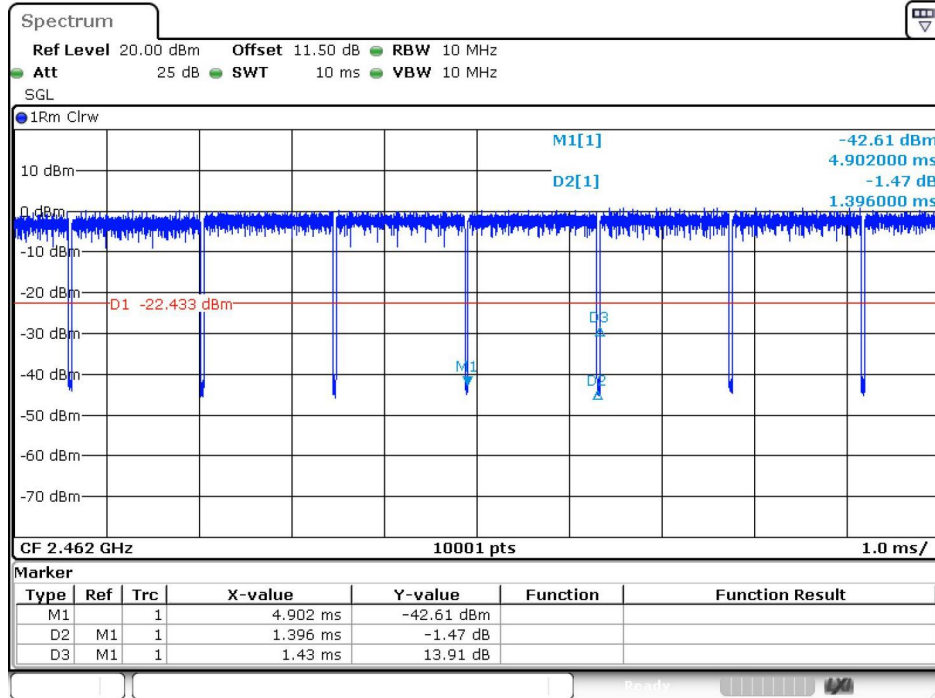
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IEEE 802.11g_20MHz_Channel 1



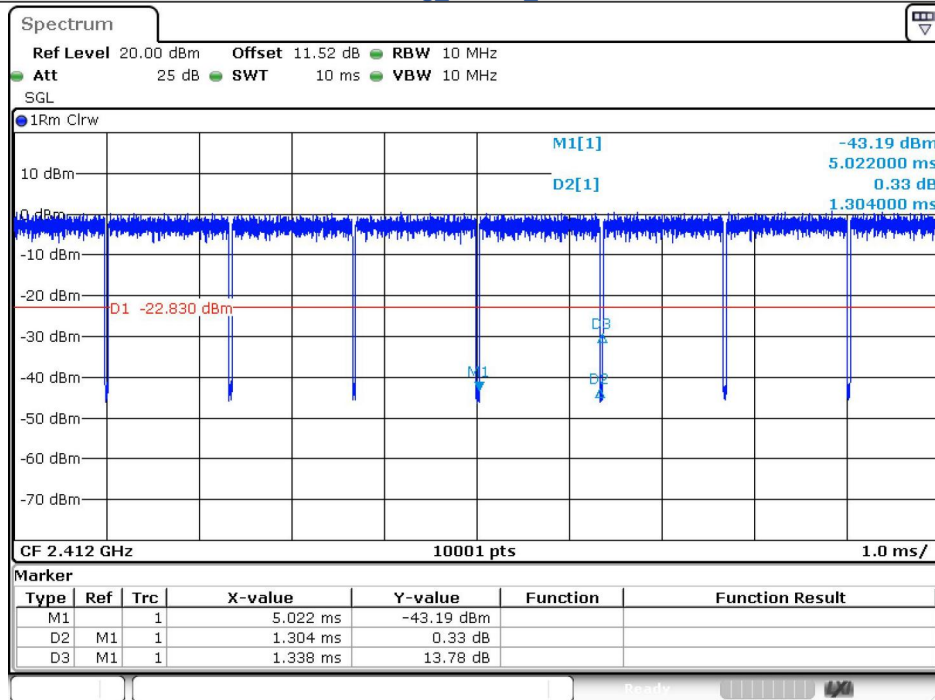
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IEEE 802.11g_20MHz_Channel 6



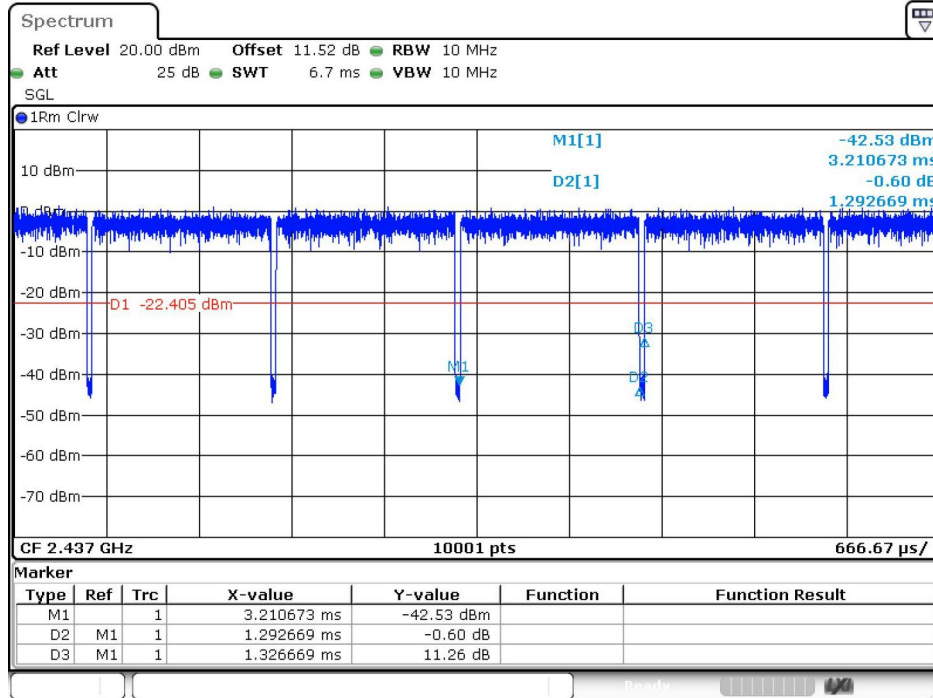
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IEEE 802.11g_20MHz_Channel 11



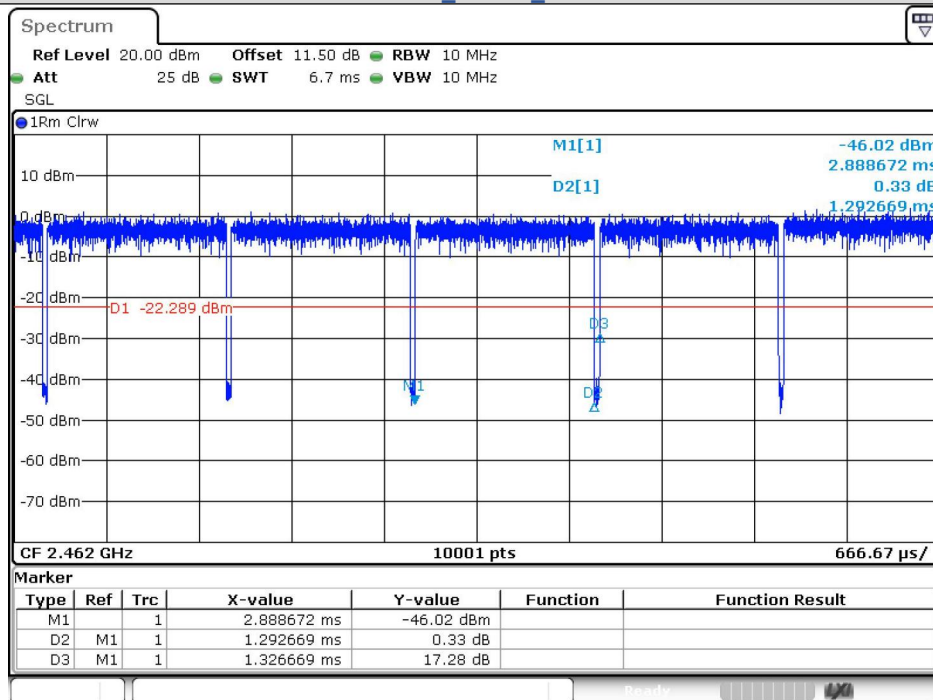
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IEEE 802.11n_20MHz_Channel 1



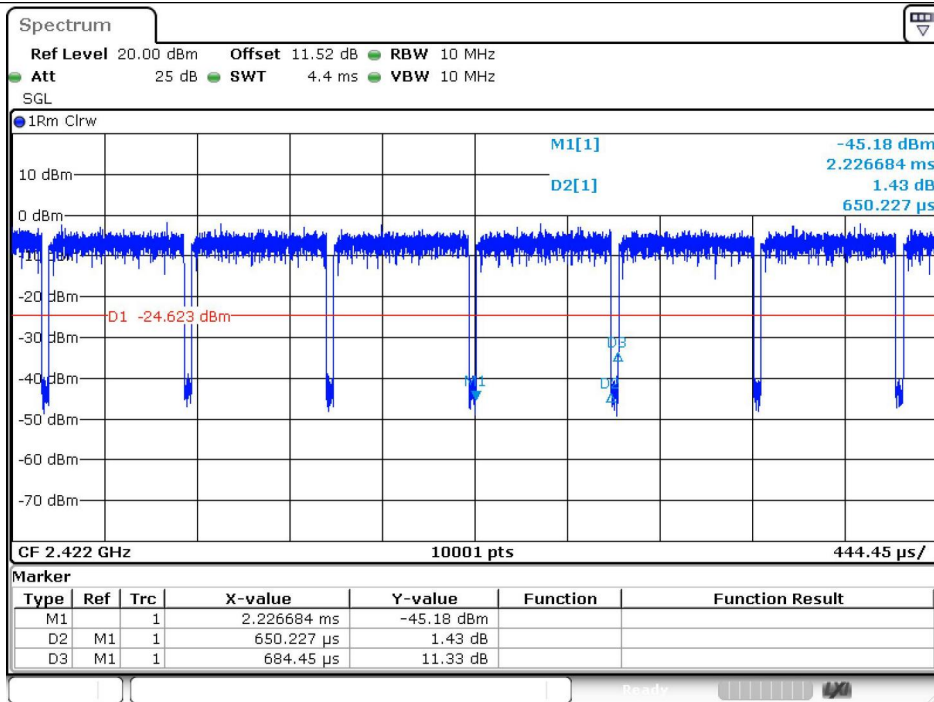
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IEEE 802.11n_20MHz_Channel 6



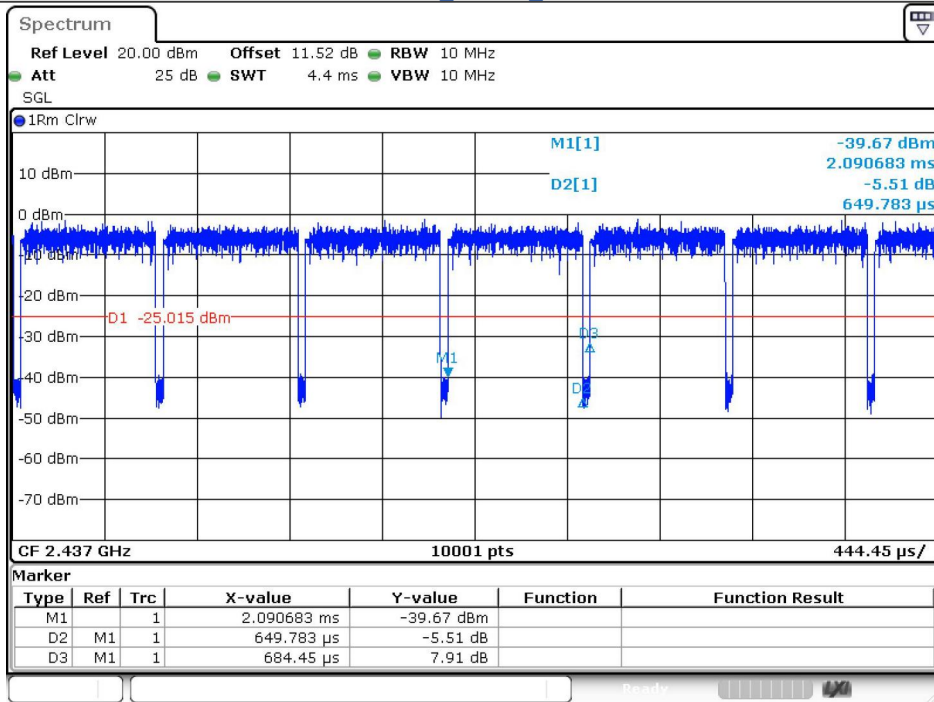
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IEEE 802.11n_20MHz_Channel 11



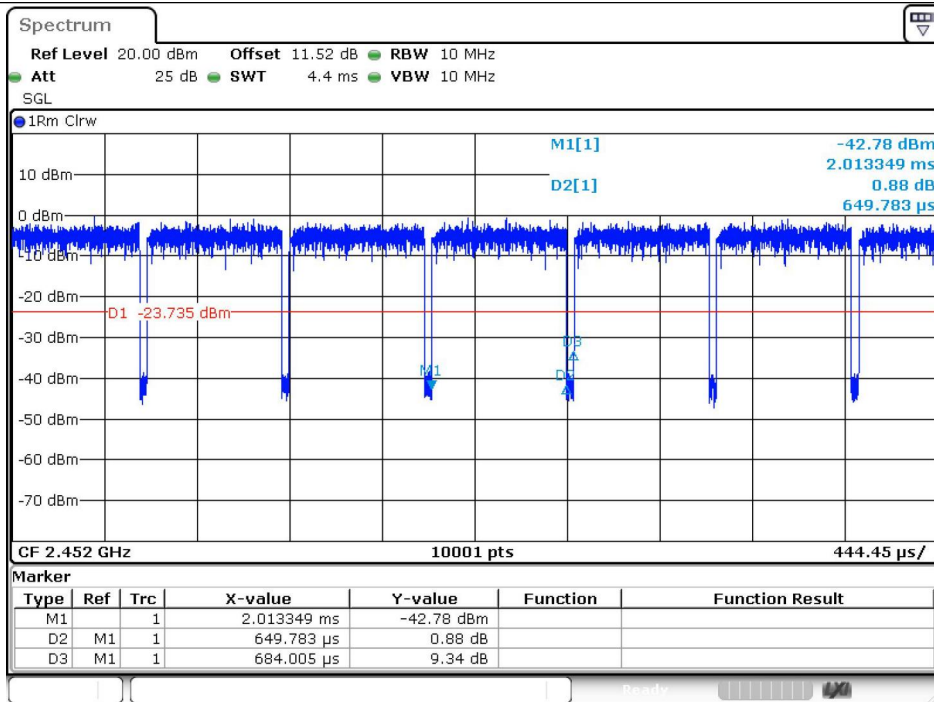
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IEEE 802.11n_40MHz_Channel 3



Date: 18.SEP.2024 15:56:29

IEEE 802.11n_40MHz_Channel 6



Date: 18.SEP.2024 16:01:52

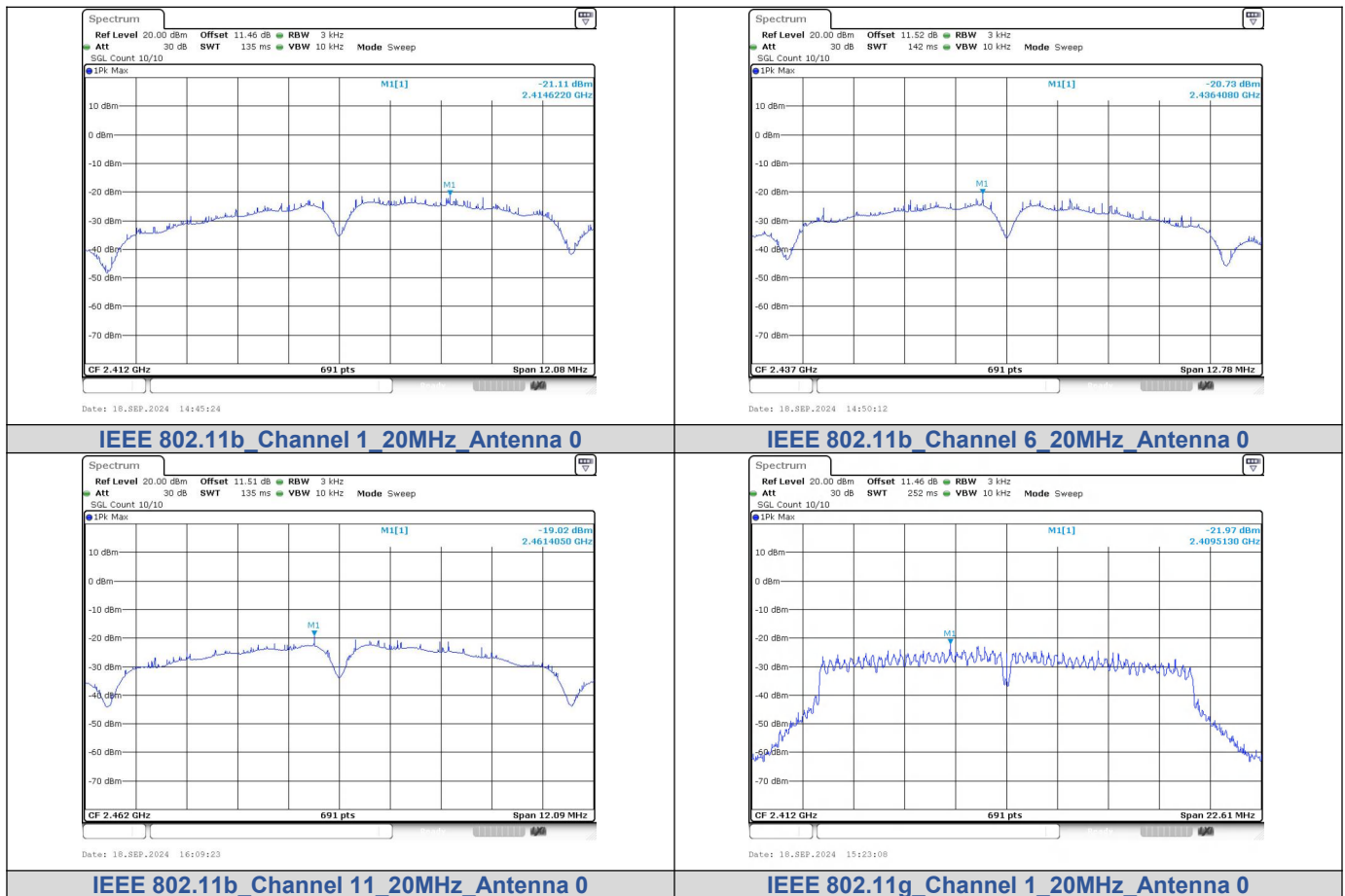
IEEE 802.11n_40MHz_Channel 9

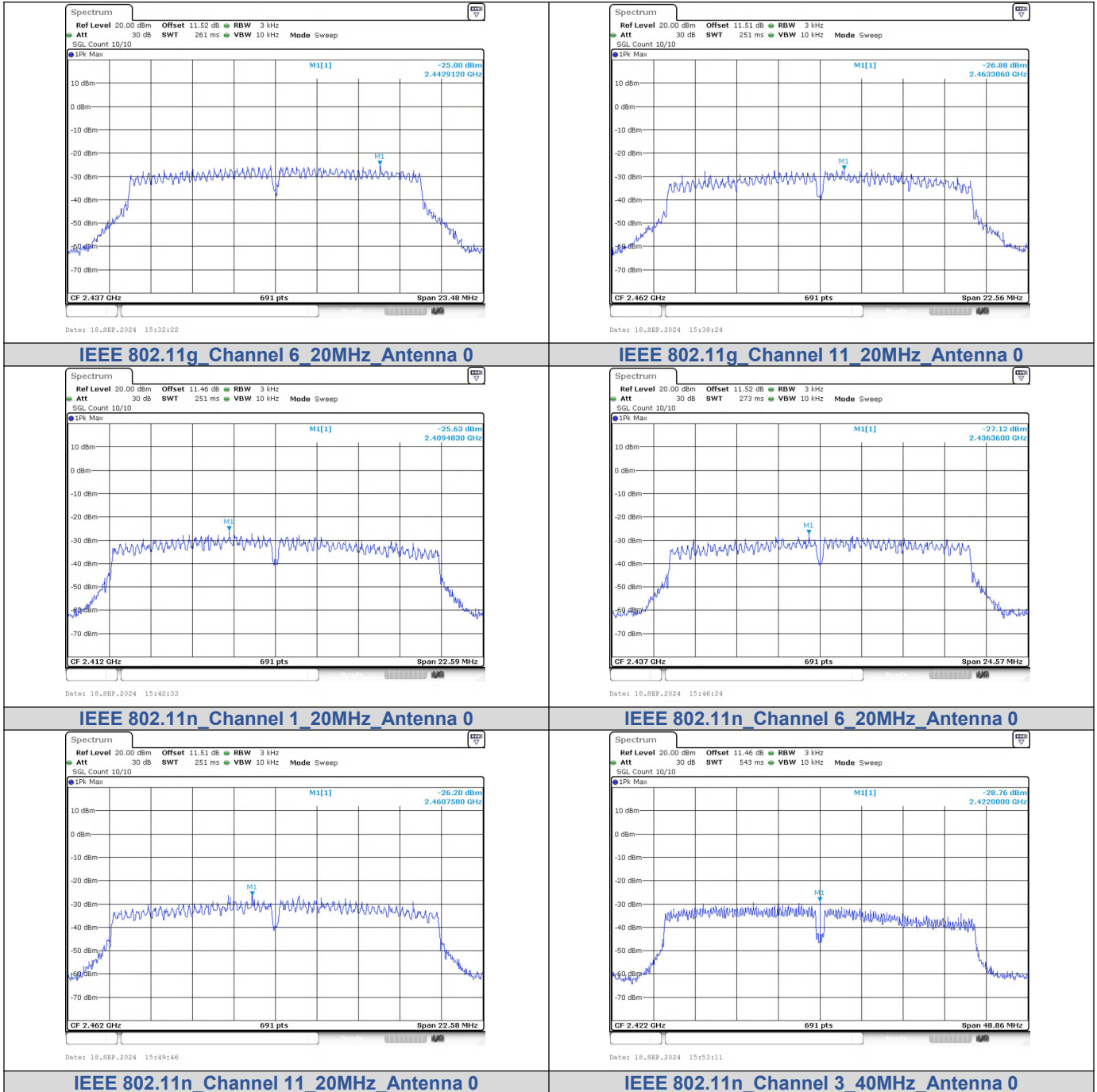
Power Spectral Density

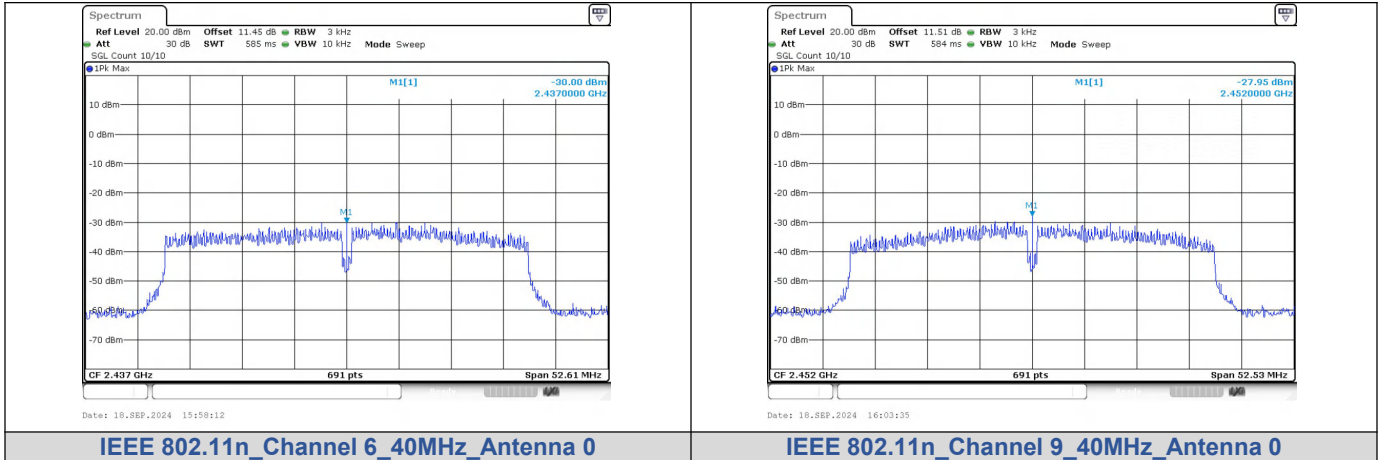
Test Result

Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-21.110	≤8	PASS
	6	-20.726		PASS
	11	-19.018		PASS
IEEE 802.11g	1	-21.968		PASS
	6	-24.995		PASS
	11	-26.875		PASS
IEEE 802.11n_20	1	-25.626		PASS
	6	-27.119		PASS
	11	-26.200		PASS
IEEE 802.11n_40	3	-28.756		PASS
	6	-30.001		PASS
	9	-27.945		PASS

Test Graphs







Conducted Peak Output Power

Test Result

Conducted Output Power

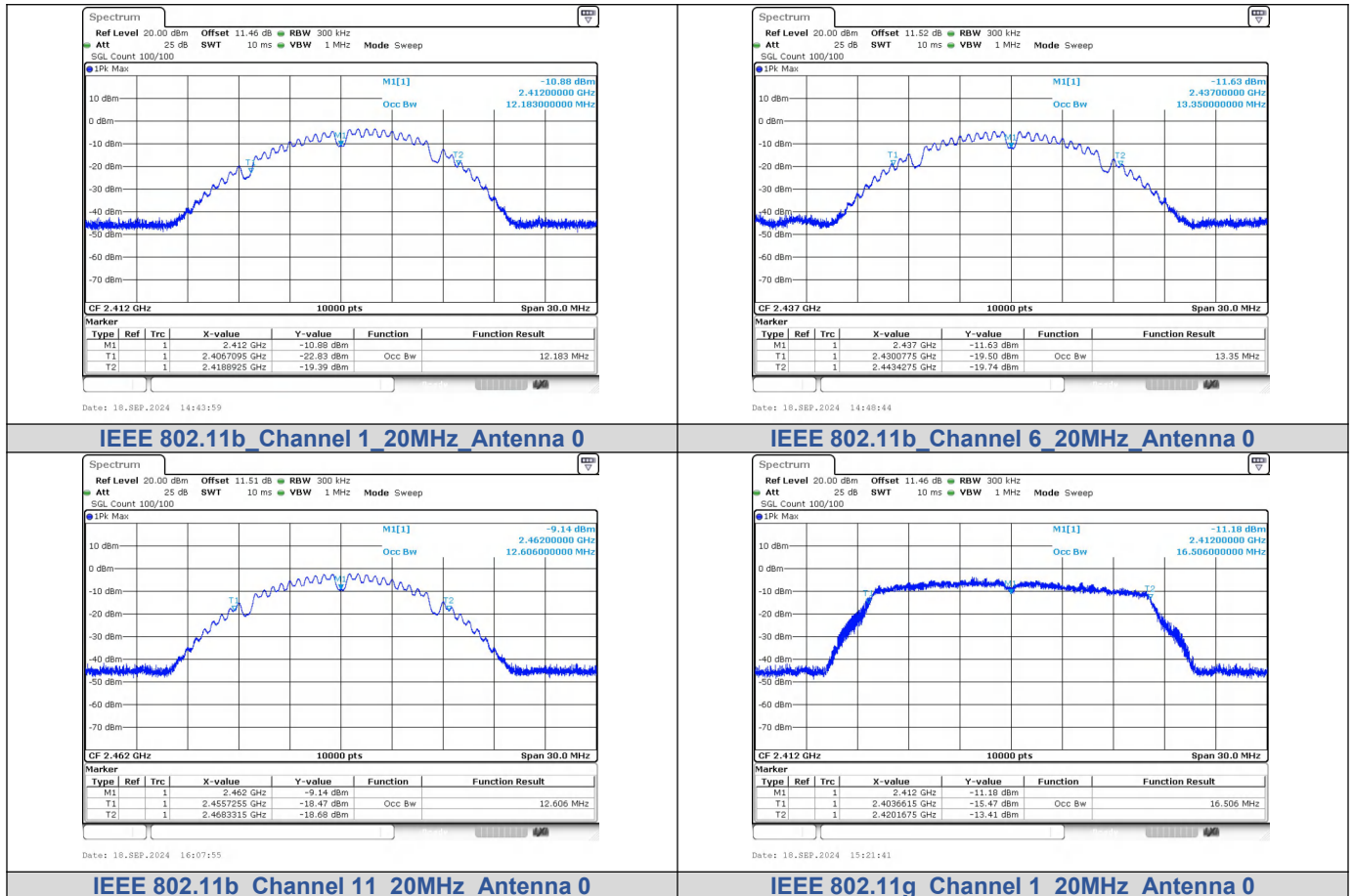
Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	6.76	≤30	PASS
	6	6.10	≤30	PASS
	11	8.00	≤30	PASS
IEEE 802.11g	1	7.18	≤30	PASS
	6	6.74	≤30	PASS
	11	7.21	≤30	PASS
IEEE 802.11n_20	1	7.31	≤30	PASS
	6	6.93	≤30	PASS
	11	7.20	≤30	PASS
IEEE 802.11n_40	3	6.93	≤30	PASS
	6	6.83	≤30	PASS
	9	6.95	≤30	PASS

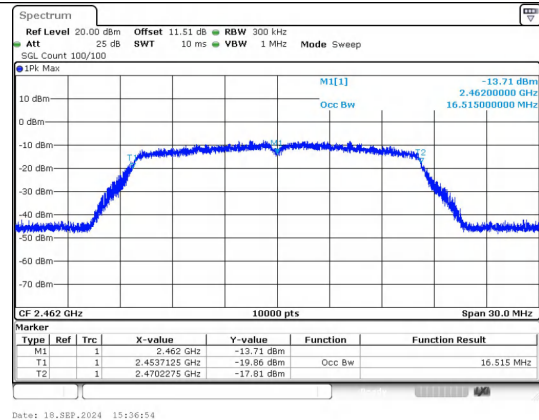
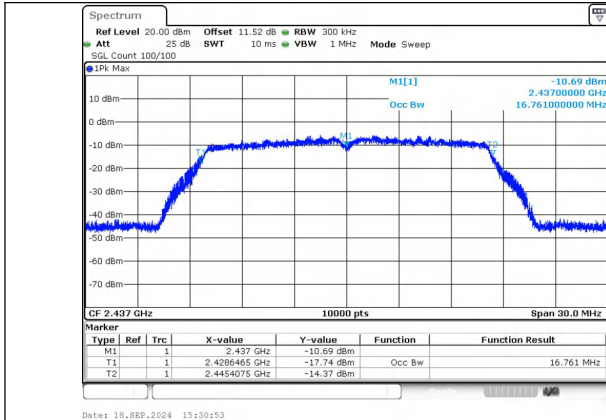
99% Bandwidth

Test Result

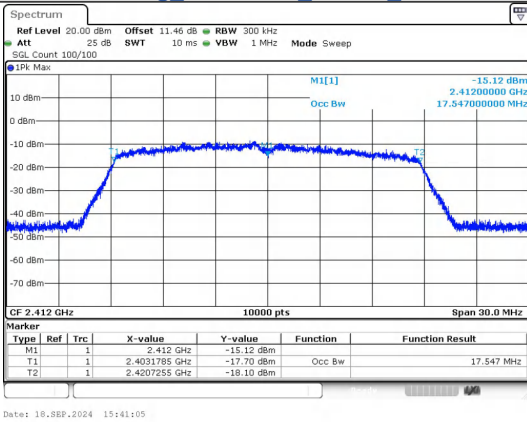
Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11b	1	0	2412	12.183
	6		2437	13.350
	11		2462	12.606
IEEE 802.11g	1		2412	16.506
	6		2437	16.761
	11		2462	16.515
IEEE 802.11n_20	1		2412	17.547
	6		2437	17.736
	11		2462	17.571
IEEE 802.11n_40	3		2422	36.078
	6		2437	36.234
	9		2452	35.862

Test Graphs

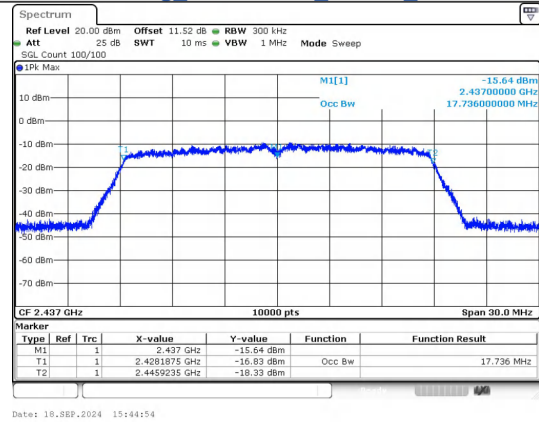




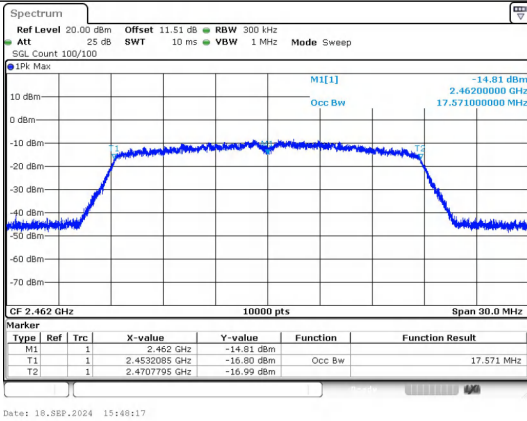
IEEE 802.11g_Channel 6_20MHz_Antenna 0



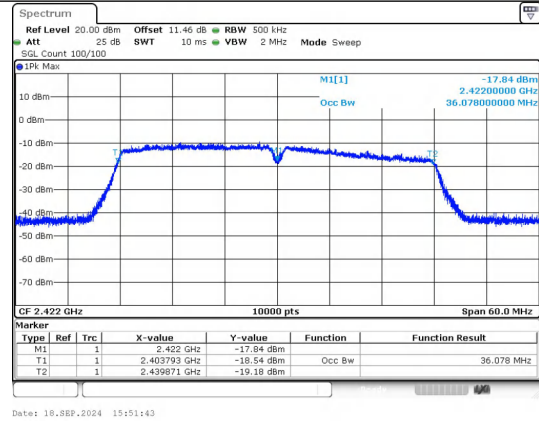
IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0

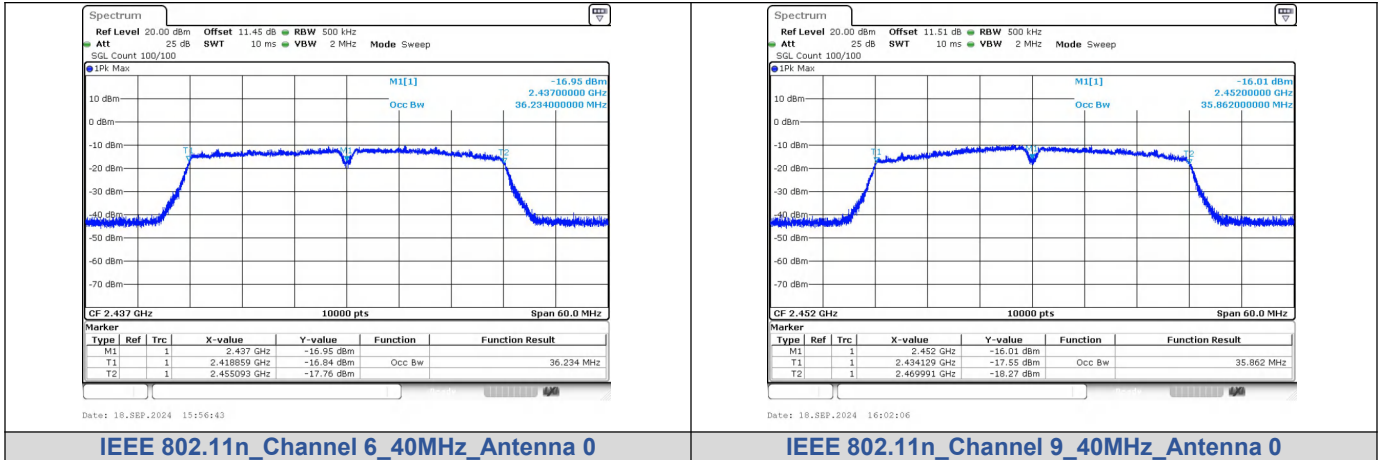


IEEE 802.11n_Channel 6_20MHz_Antenna 0



IEEE 802.11n_Channel 11_20MHz_Antenna 0

IEEE 802.11n_Channel 3_40MHz_Antenna 0

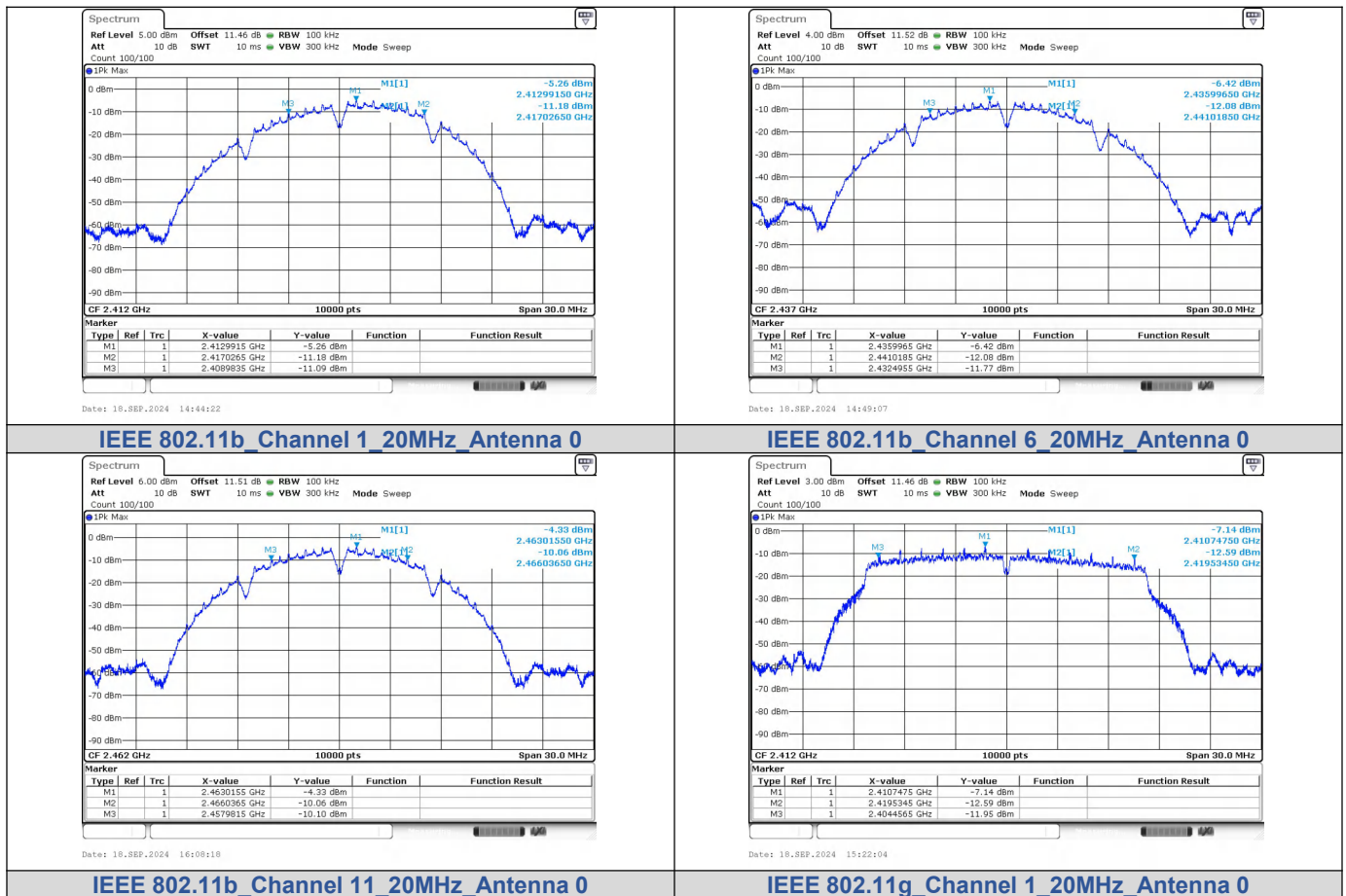


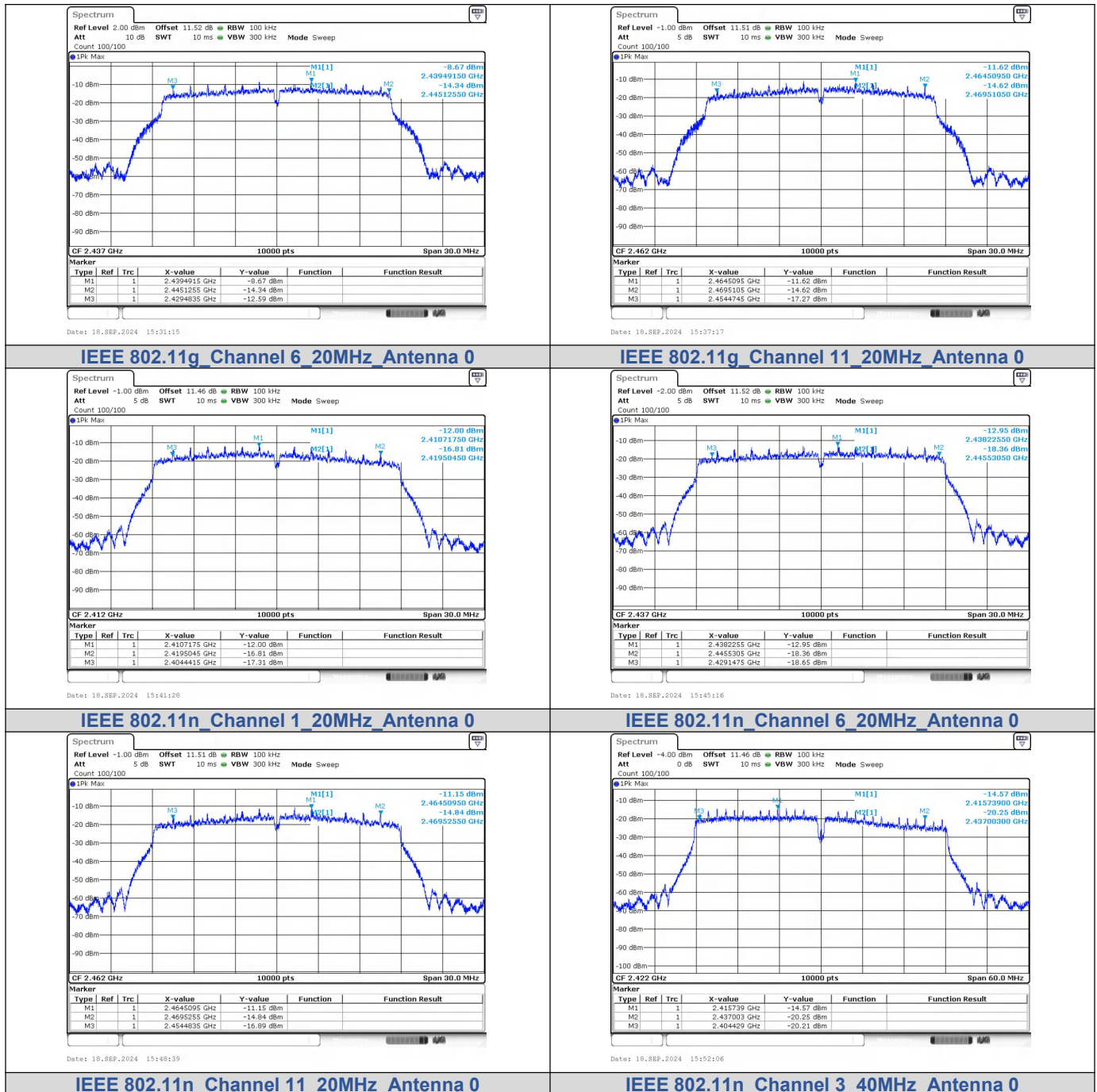
6dB Bandwidth

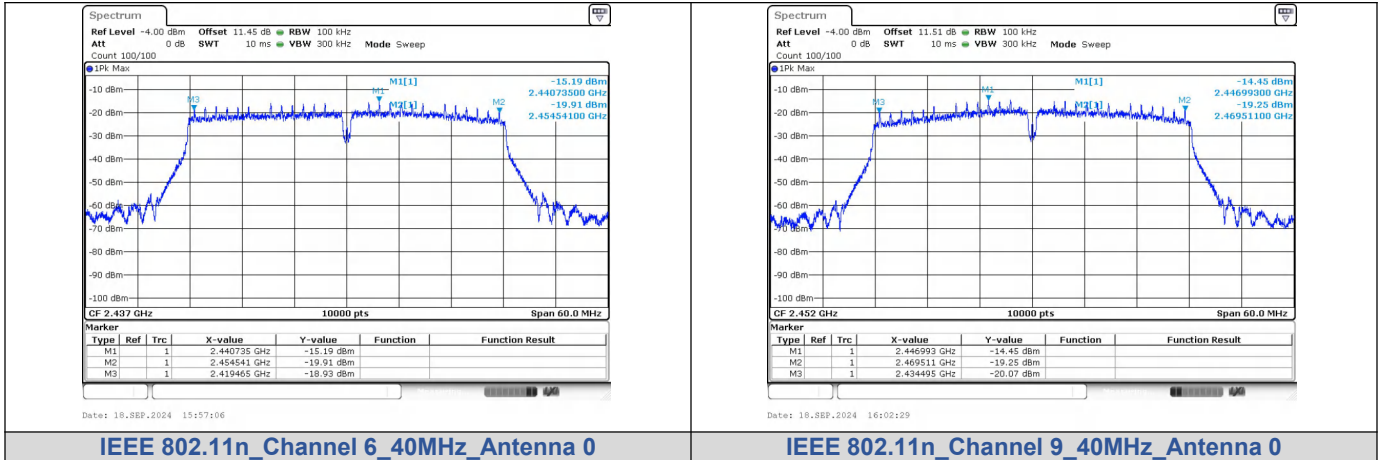
Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	8.050	≥0.5	PASS
	6		2437	8.520		PASS
	11		2462	8.060		PASS
IEEE 802.11g	1		2412	15.07		PASS
	6		2437	15.65		PASS
	11		2462	15.04		PASS
IEEE 802.11n_20	1		2412	15.06		PASS
	6		2437	16.38		PASS
	11		2462	15.05		PASS
IEEE 802.11n_40	3		2422	32.57		PASS
	6		2437	35.07		PASS
	9		2452	35.02		PASS

Test Graphs





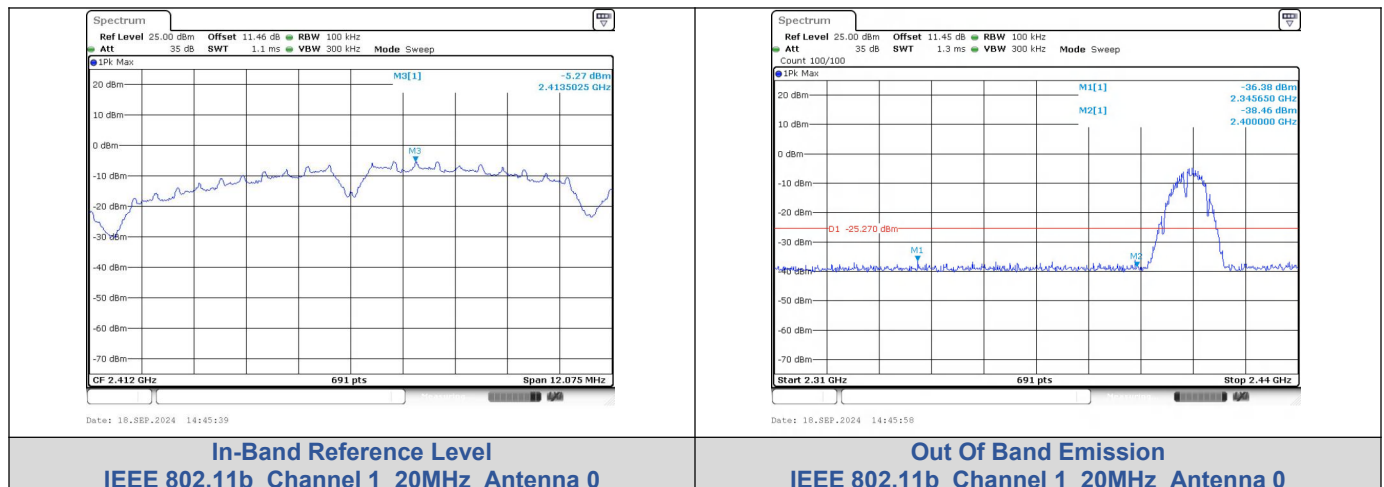


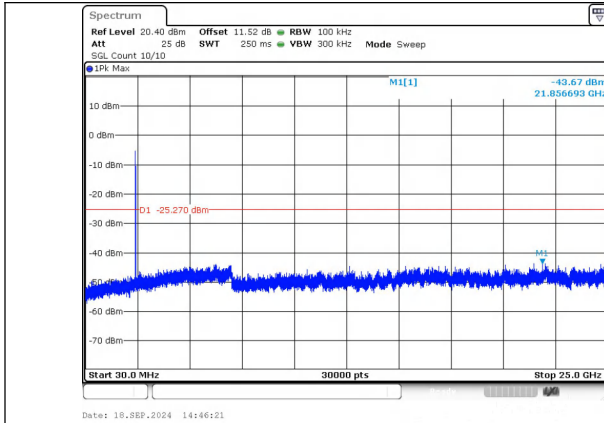
Conducted Out Of Band Emission

Test Result

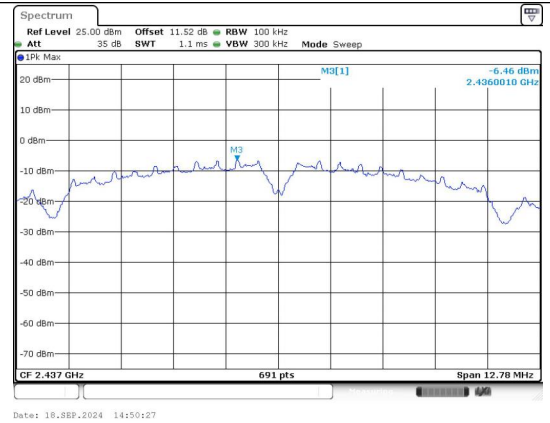
Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2345.65	-36.384	-25.27	-11.114	PASS
			2400.00	-38.461	-25.27	-13.191	PASS
	6		21856.7	-43.671	-25.27	-18.401	PASS
			15607.5	-43.313	-26.46	-16.853	PASS
	11		2483.50	-37.739	-24.3	-13.439	PASS
			6917.97	-42.580	-24.3	-18.280	PASS
IEEE 802.11g	1		2398.70	-36.573	-27.69	-8.883	PASS
			2400.00	-38.231	-27.69	-10.541	PASS
	6		6915.50	-43.066	-27.69	-15.376	PASS
			6948.77	-42.933	-32.32	-10.613	PASS
	11		2483.50	-38.644	-30.51	-8.134	PASS
			6991.22	-43.665	-30.51	-13.155	PASS
IEEE 802.11n_20	1	2358.82	-37.101	-30.88	-6.221	PASS	
		2400.00	-38.697	-30.88	-7.817	PASS	
	6	22033.1	-43.386	-30.88	-12.506	PASS	
		5868.40	-43.211	-32.03	-11.181	PASS	
	11	2483.50	-37.843	-30.98	-6.863	PASS	
		6898.00	-43.556	-30.98	-12.576	PASS	
IEEE 802.11n_40	3	2396.45	-36.602	-33.71	-2.892	PASS	
		2400.00	-39.395	-33.71	-5.685	PASS	
	6	6938.80	-43.497	-33.71	-9.787	PASS	
		6908.82	-42.848	-33.95	-8.898	PASS	
	9	2483.50	-38.396	-33.42	-4.976	PASS	
		6402.76	-43.011	-33.42	-9.591	PASS	

Test Graphs

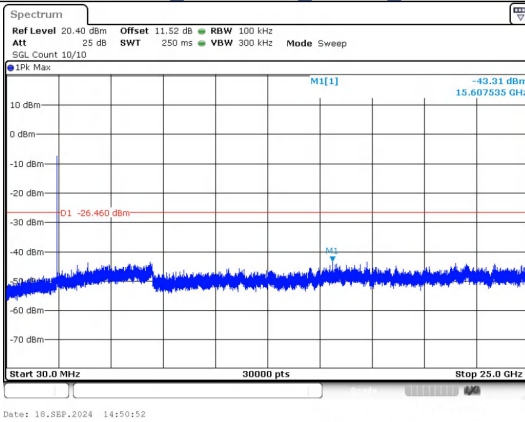




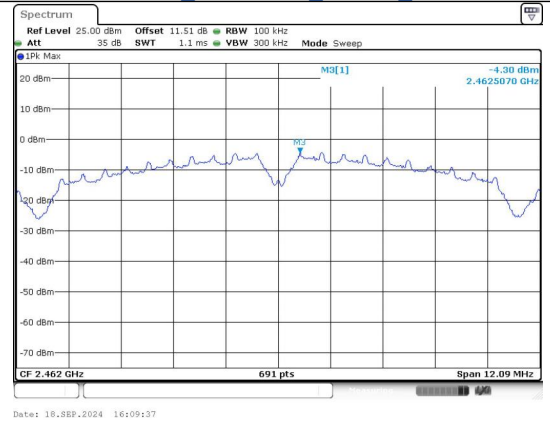
30.0 MHz - 25000.0 MHz
IEEE 802.11b Channel 1 20MHz Antenna 0



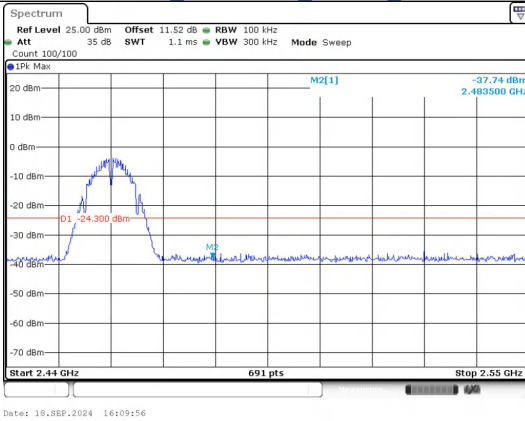
In-Band Reference Level
IEEE 802.11b Channel 6 20MHz Antenna 0



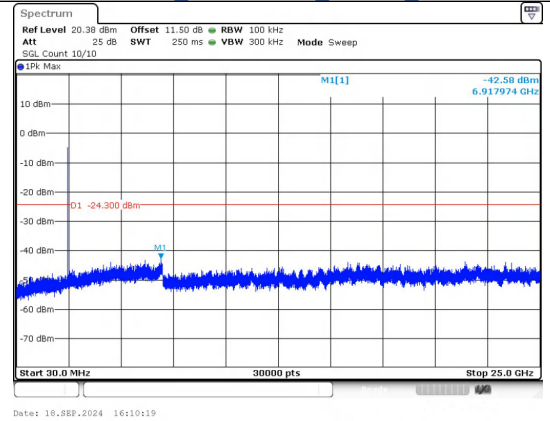
30.0 MHz - 25000.0 MHz
IEEE 802.11b Channel 6 20MHz Antenna 0



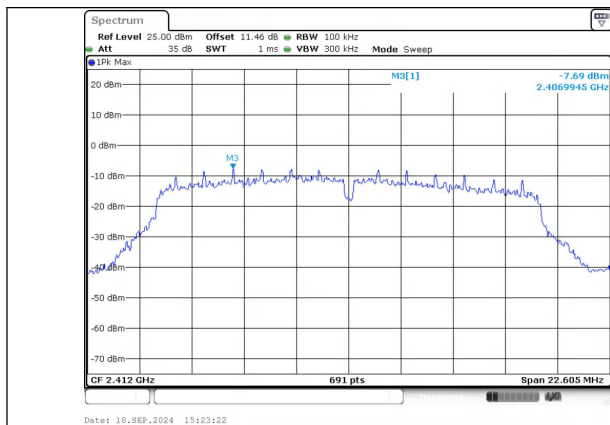
In-Band Reference Level
IEEE 802.11b Channel 11 20MHz Antenna 0



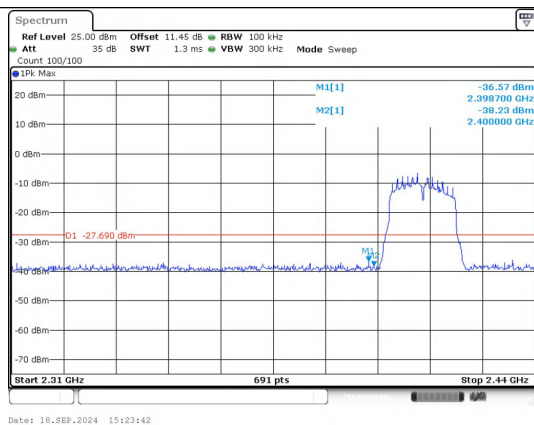
Out Of Band Emission
IEEE 802.11b Channel 11 20MHz Antenna 0



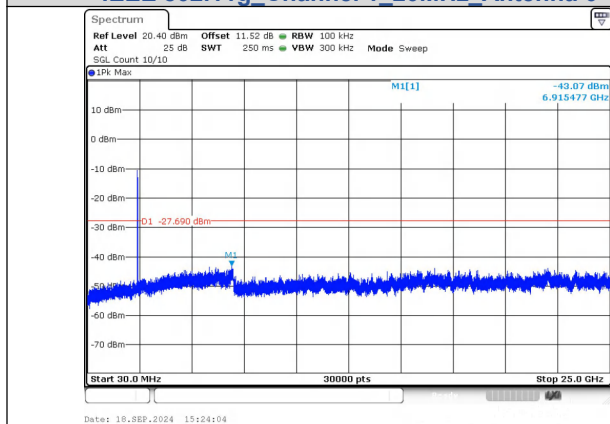
30.0 MHz - 25000.0 MHz
IEEE 802.11b Channel 11 20MHz Antenna 0



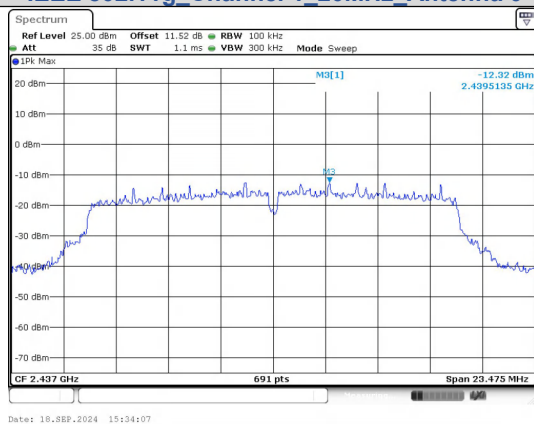
In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0



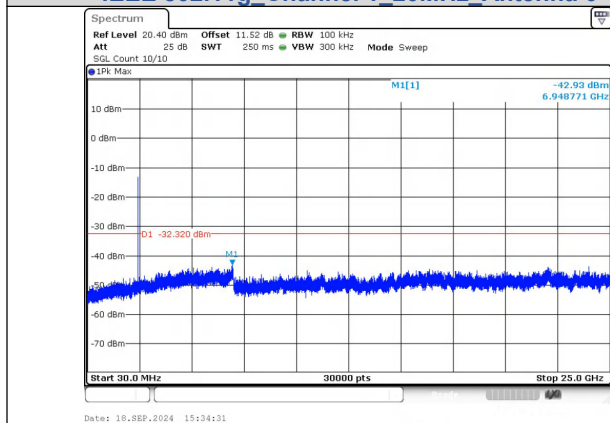
Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



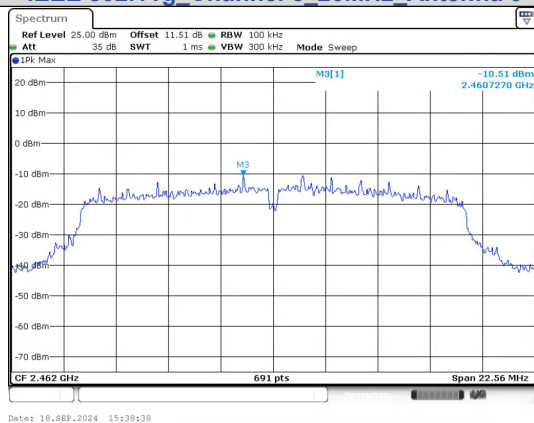
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 1_20MHz_Antenna 0



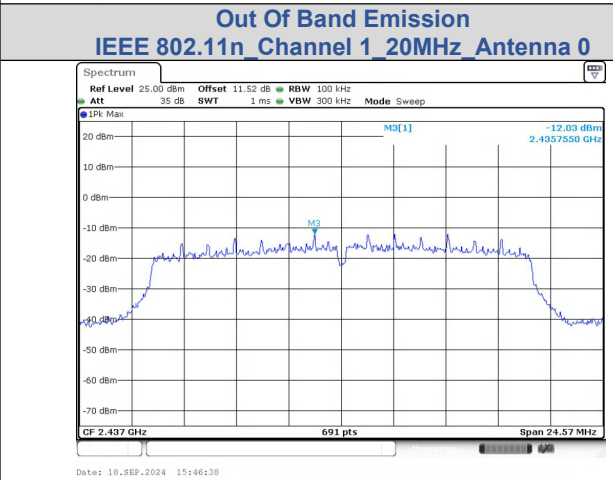
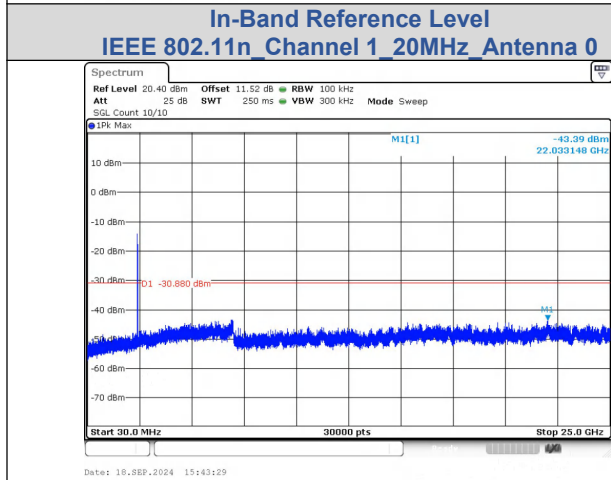
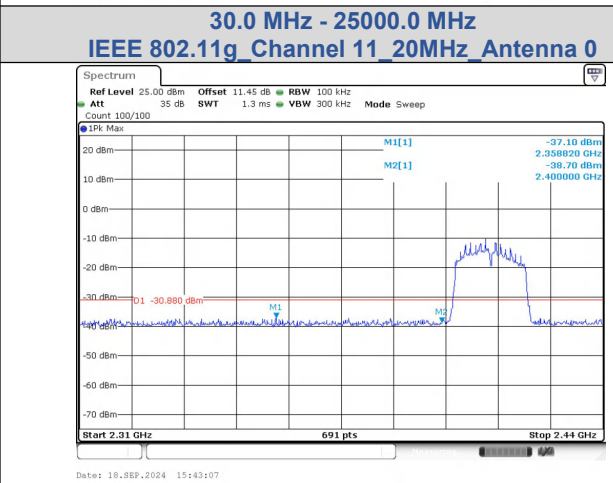
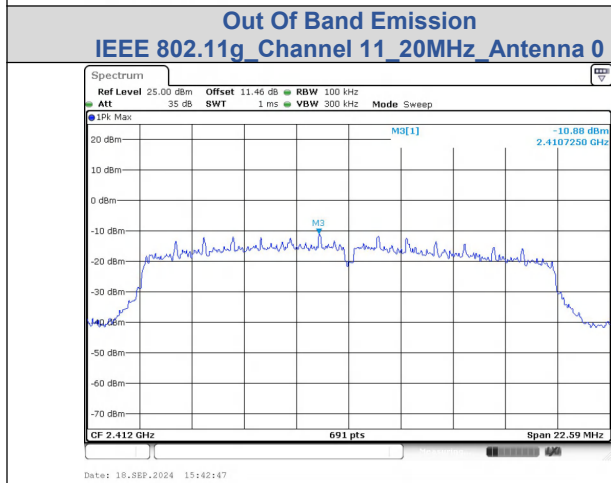
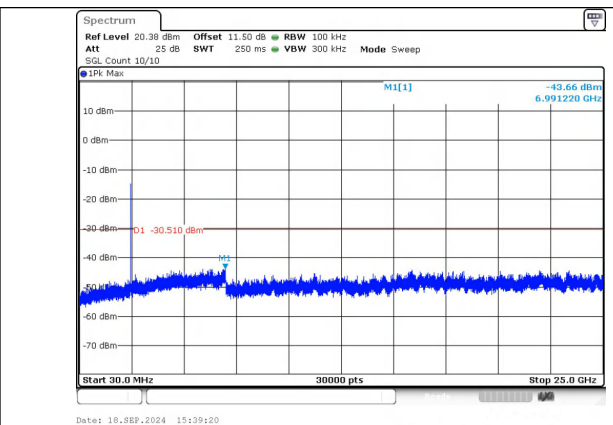
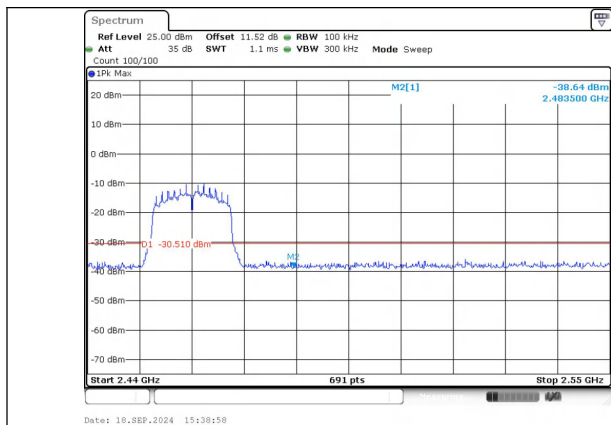
In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0

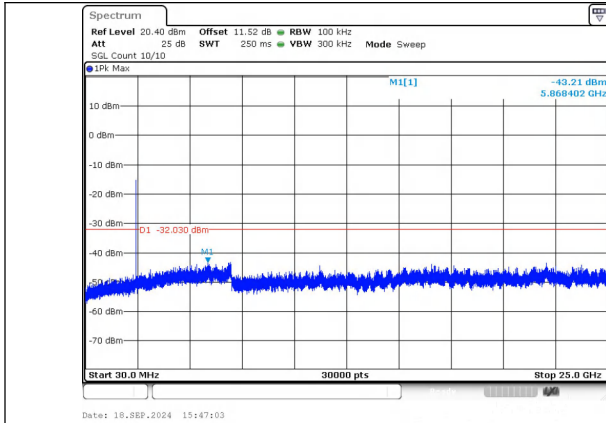


30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 6_20MHz_Antenna 0

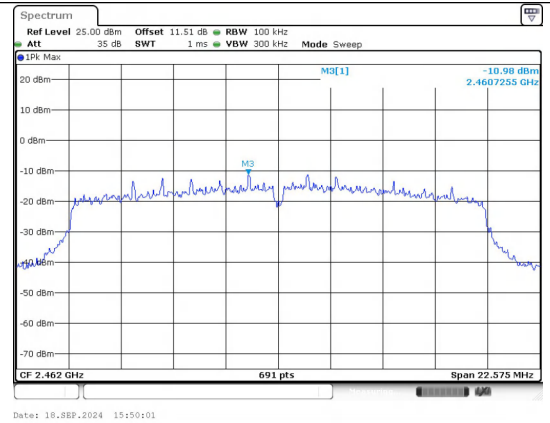


In-Band Reference Level
IEEE 802.11g_Channel 11_20MHz_Antenna 0

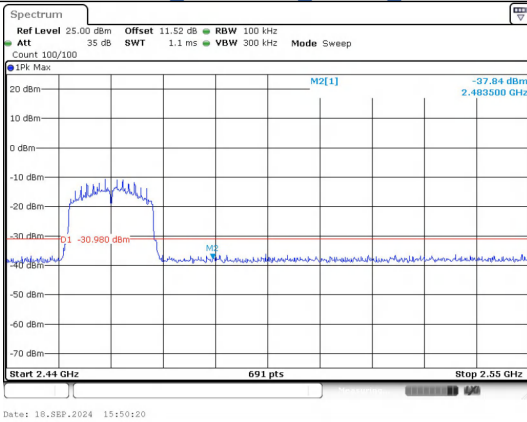




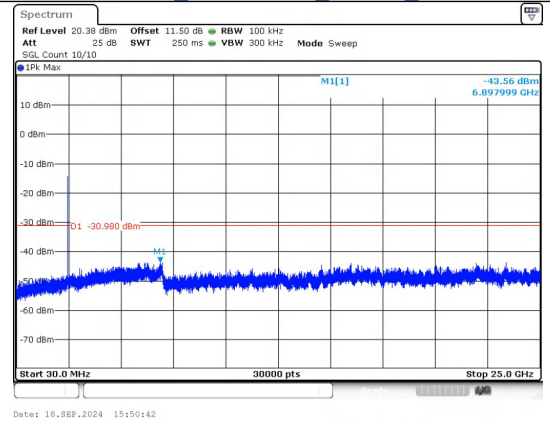
30.0 MHz - 25000.0 MHz
IEEE 802.11n Channel 6 20MHz Antenna 0



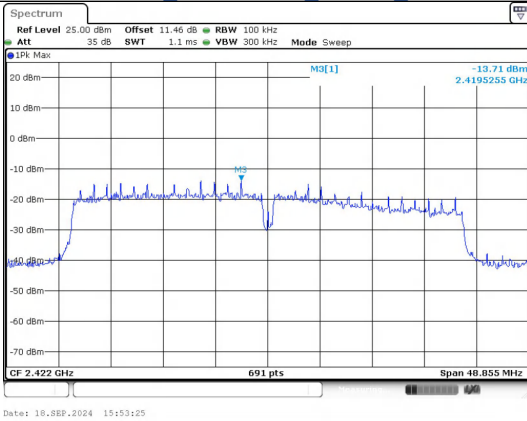
In-Band Reference Level
IEEE 802.11n Channel 11 20MHz Antenna 0



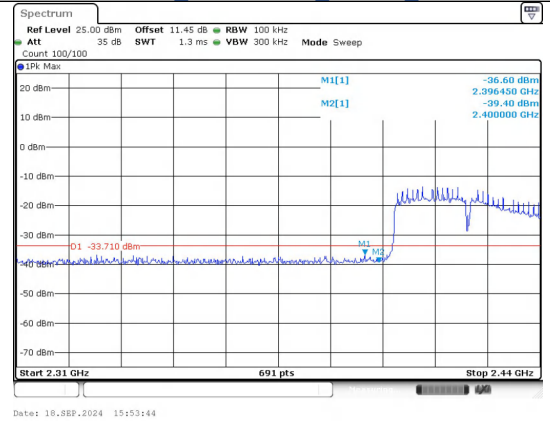
Out Of Band Emission
IEEE 802.11n Channel 11 20MHz Antenna 0



30.0 MHz - 25000.0 MHz
IEEE 802.11n Channel 11 20MHz Antenna 0



In-Band Reference Level
IEEE 802.11n Channel 3 40MHz Antenna 0



Out Of Band Emission
IEEE 802.11n Channel 3 40MHz Antenna 0

