

Appendix C

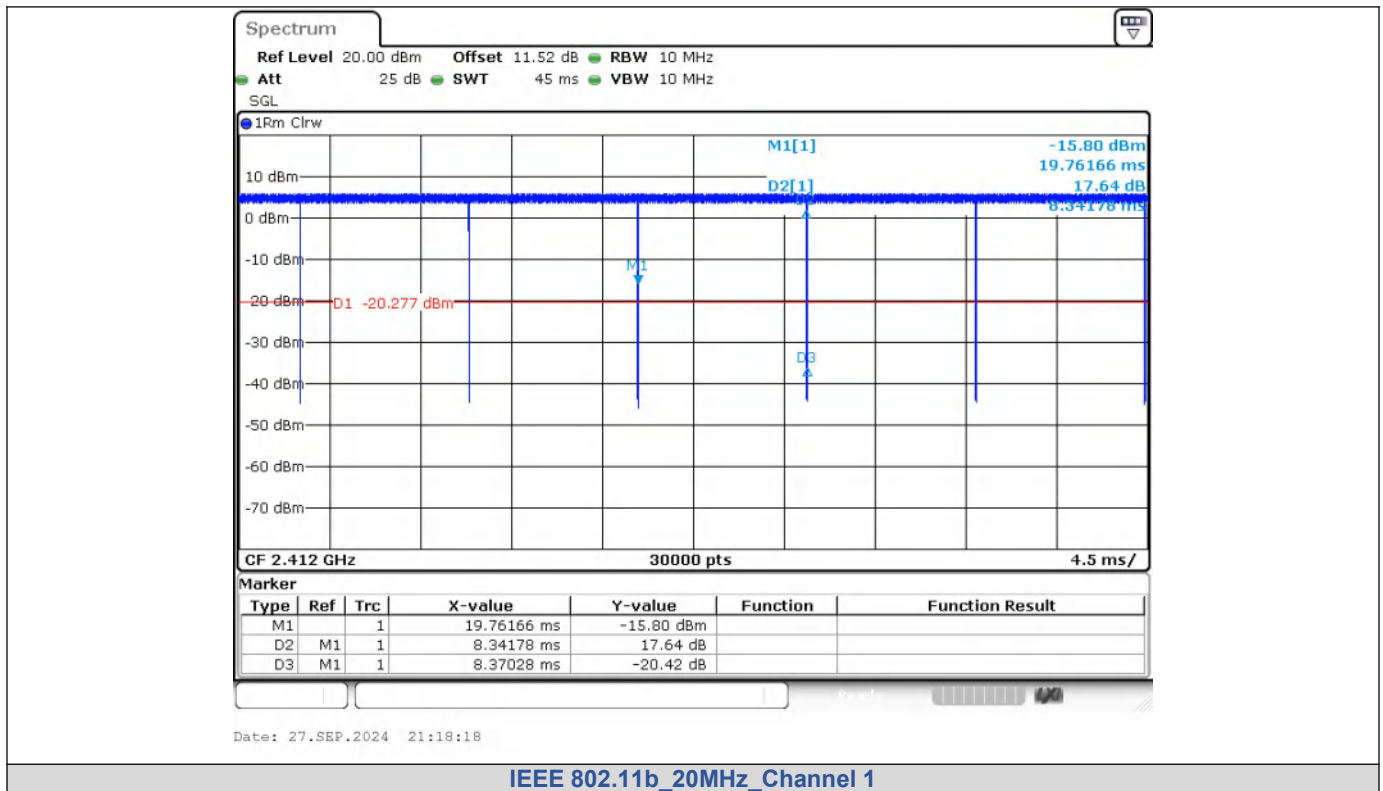
Report No.:	CISRR24091917703
FCC ID:	2BK9F-V200
Product Name:	Intelligent Microprojector
Model No.:	V200
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

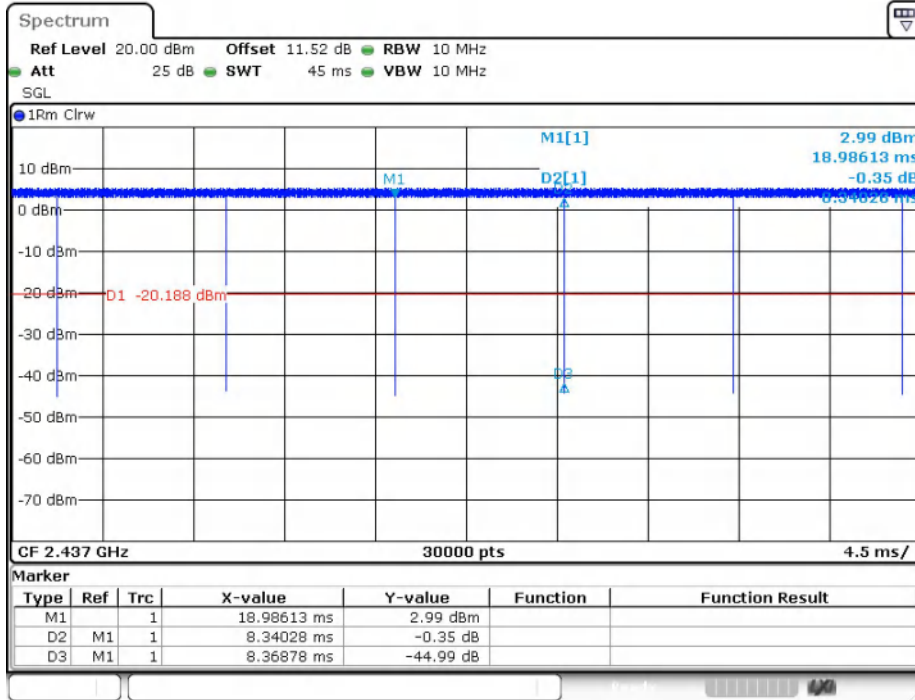
Duty Cycle

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	8.342	8.370	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
IEEE 802.11g		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	1.429	97.69	0.9769	0.1015	0.72
IEEE 802.11n_20	MCS 0	1		1.304	1.338	97.46	0.9746	0.1117	0.77
		6		1.304	1.338	97.46	0.9746	0.1117	0.77
		11		1.293	1.327	97.44	0.9744	0.1126	0.77
IEEE 802.11n_40		3		0.650	0.684	94.94	0.9494	0.2255	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

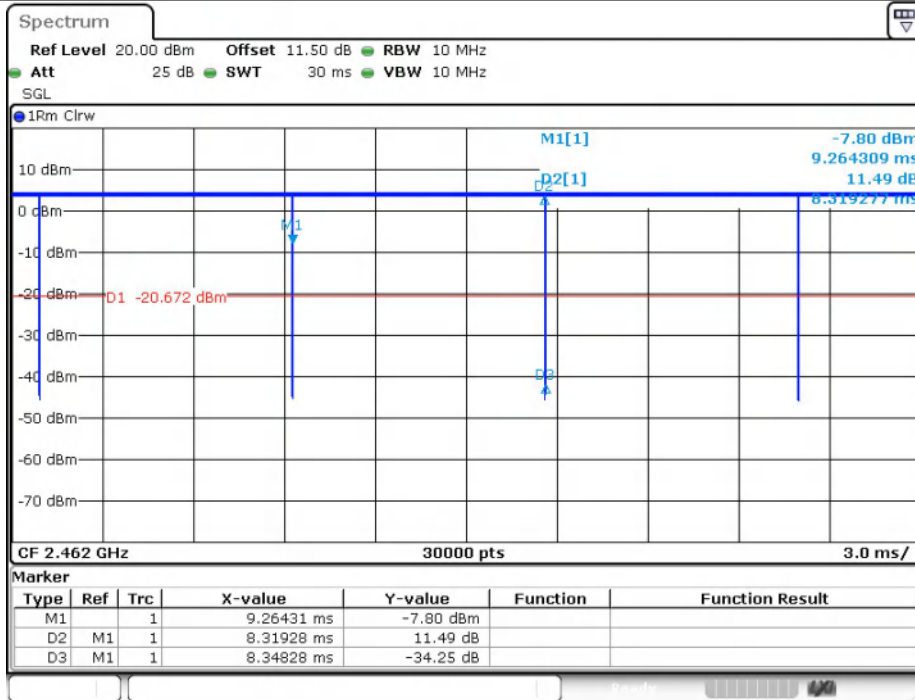
Test Graphs





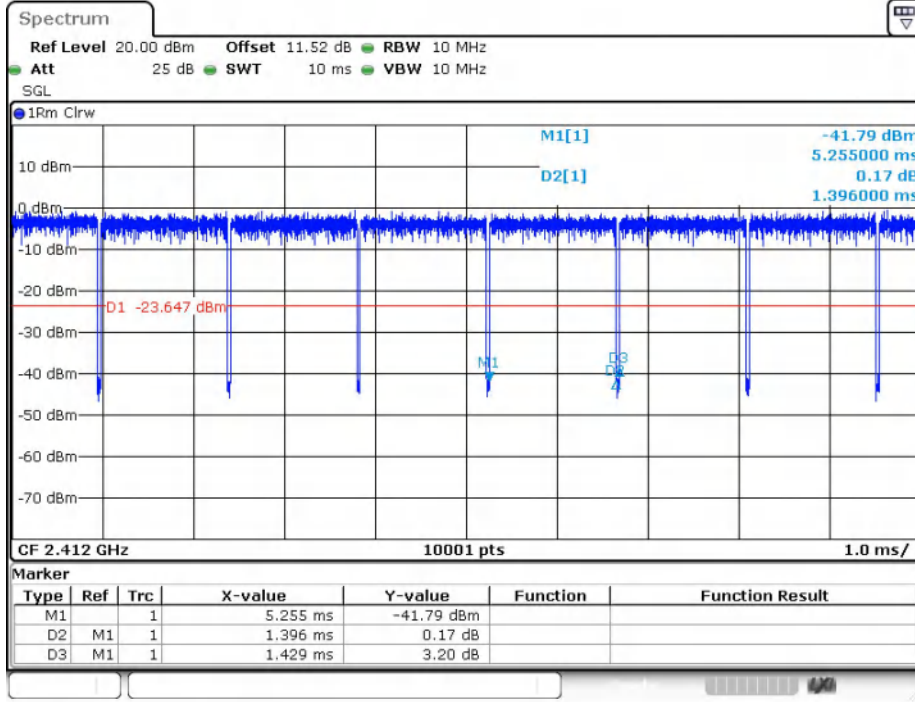
Date: 27.SEP.2024 21:21:35

IEEE 802.11b_20MHz_Channel 6



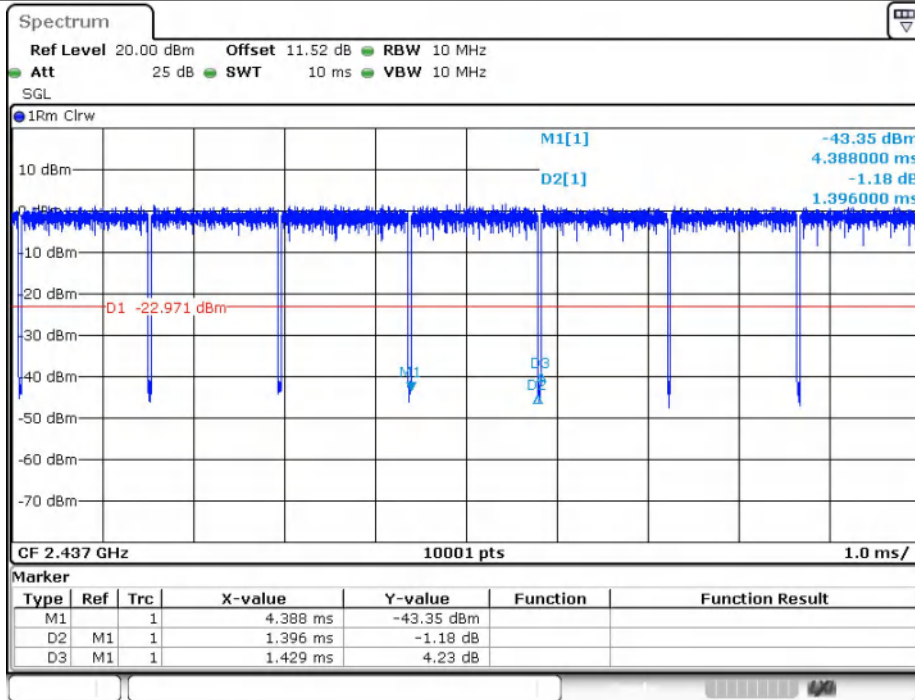
Date: 27.SEP.2024 21:25:00

IEEE 802.11b_20MHz_Channel 11



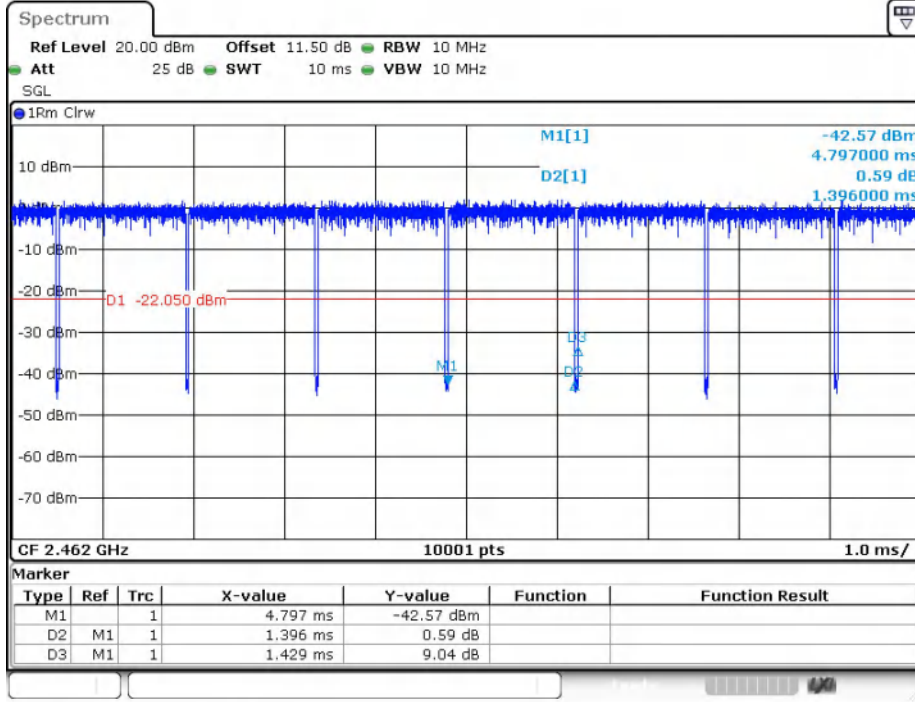
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IEEE 802.11g_20MHz_Channel 1



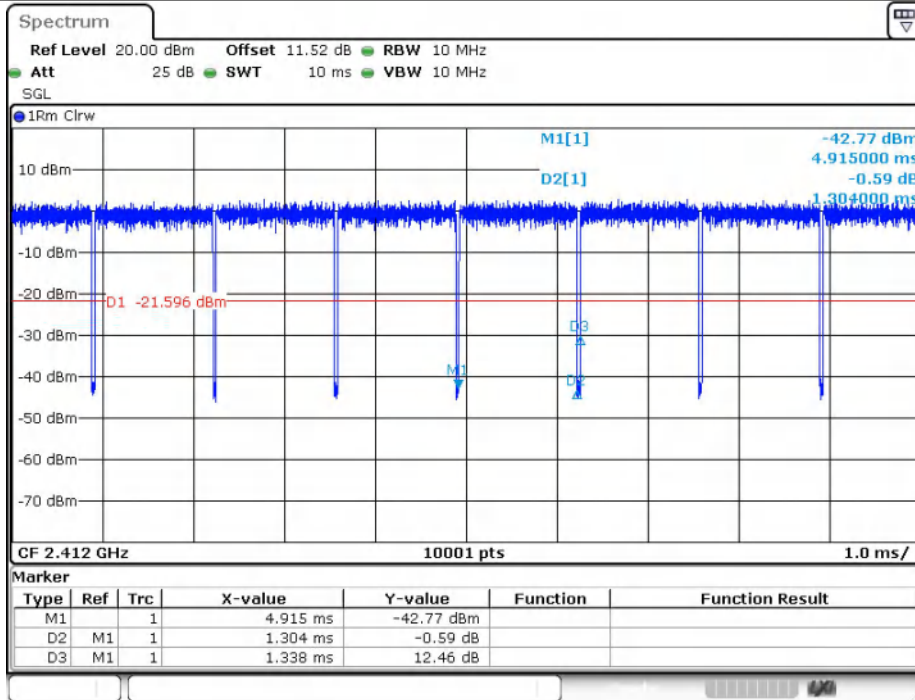
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IEEE 802.11g_20MHz_Channel 6



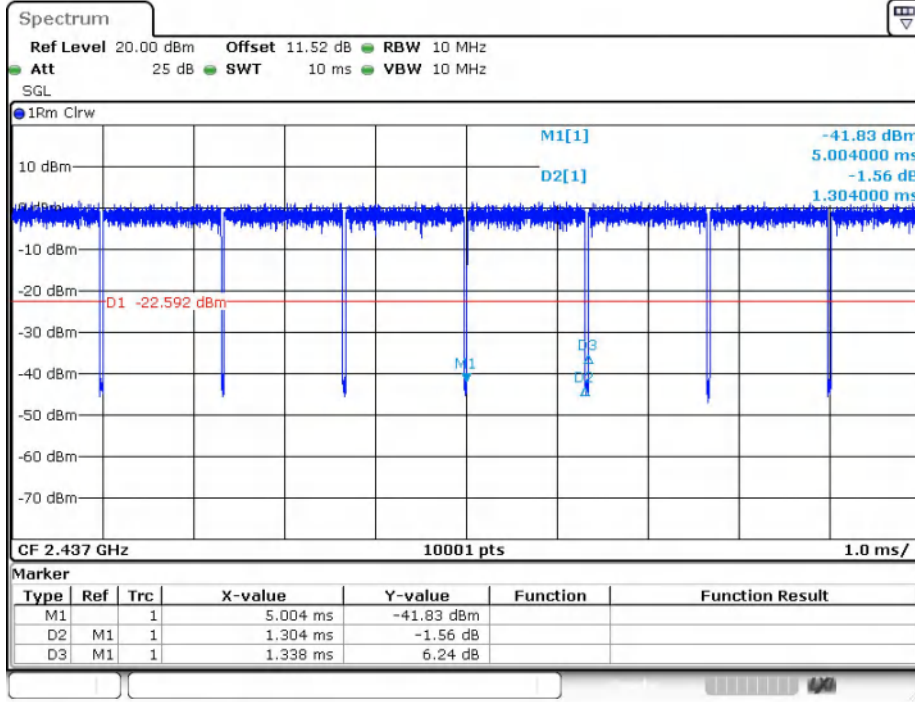
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IEEE 802.11g_20MHz_Channel 11



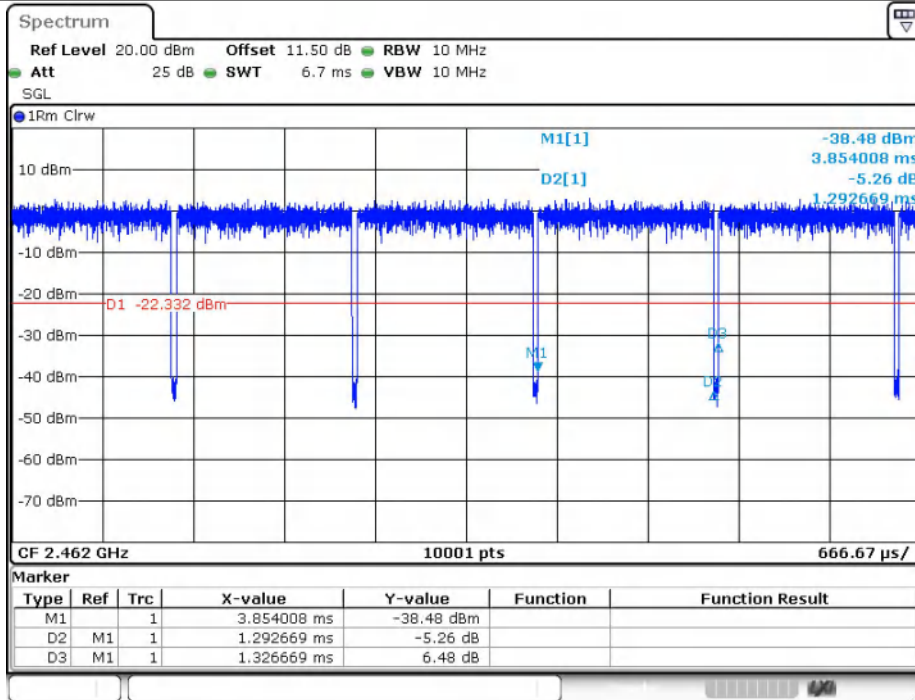
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IEEE 802.11n_20MHz_Channel 1



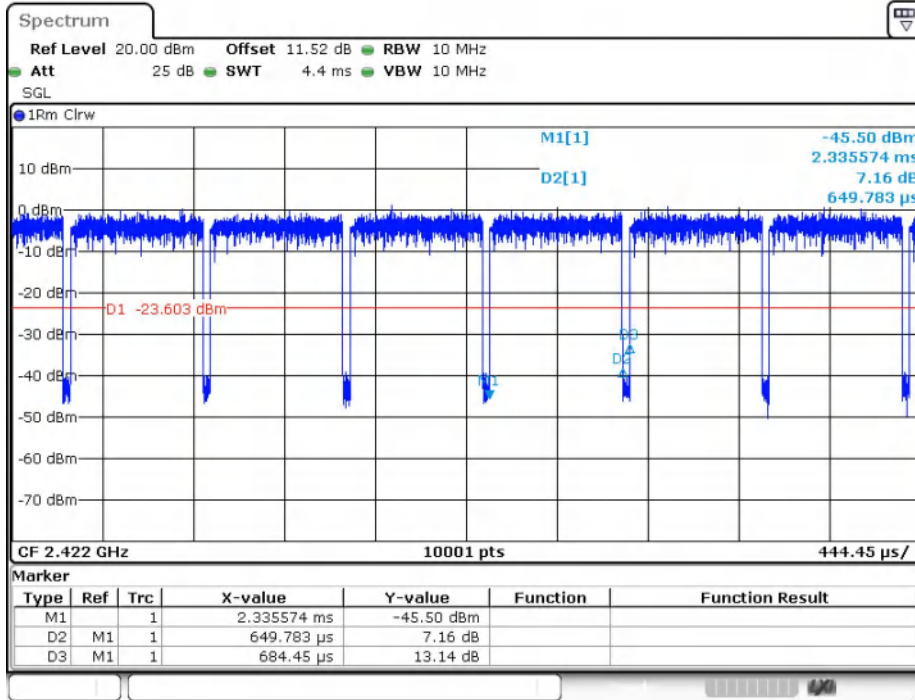
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IEEE 802.11n_20MHz_Channel 6



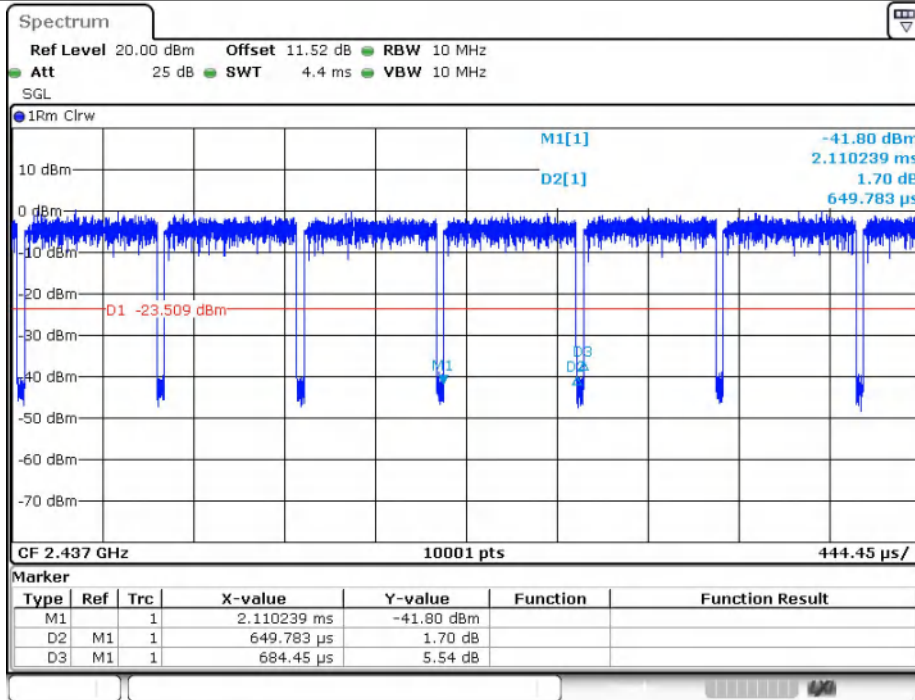
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IEEE 802.11n_20MHz_Channel 11



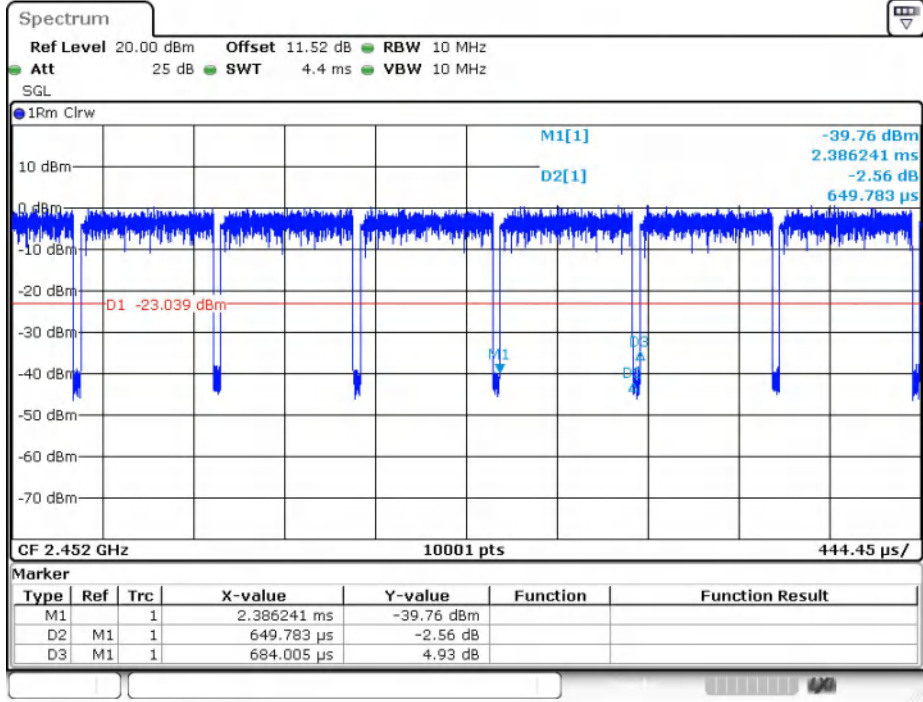
Date: 27.SEP.2024 21:52:32

IEEE 802.11n_40MHz_Channel 3



Date: 27.SEP.2024 21:56:00

IEEE 802.11n_40MHz_Channel 6



Date: 27.SEP.2024 22:15:19

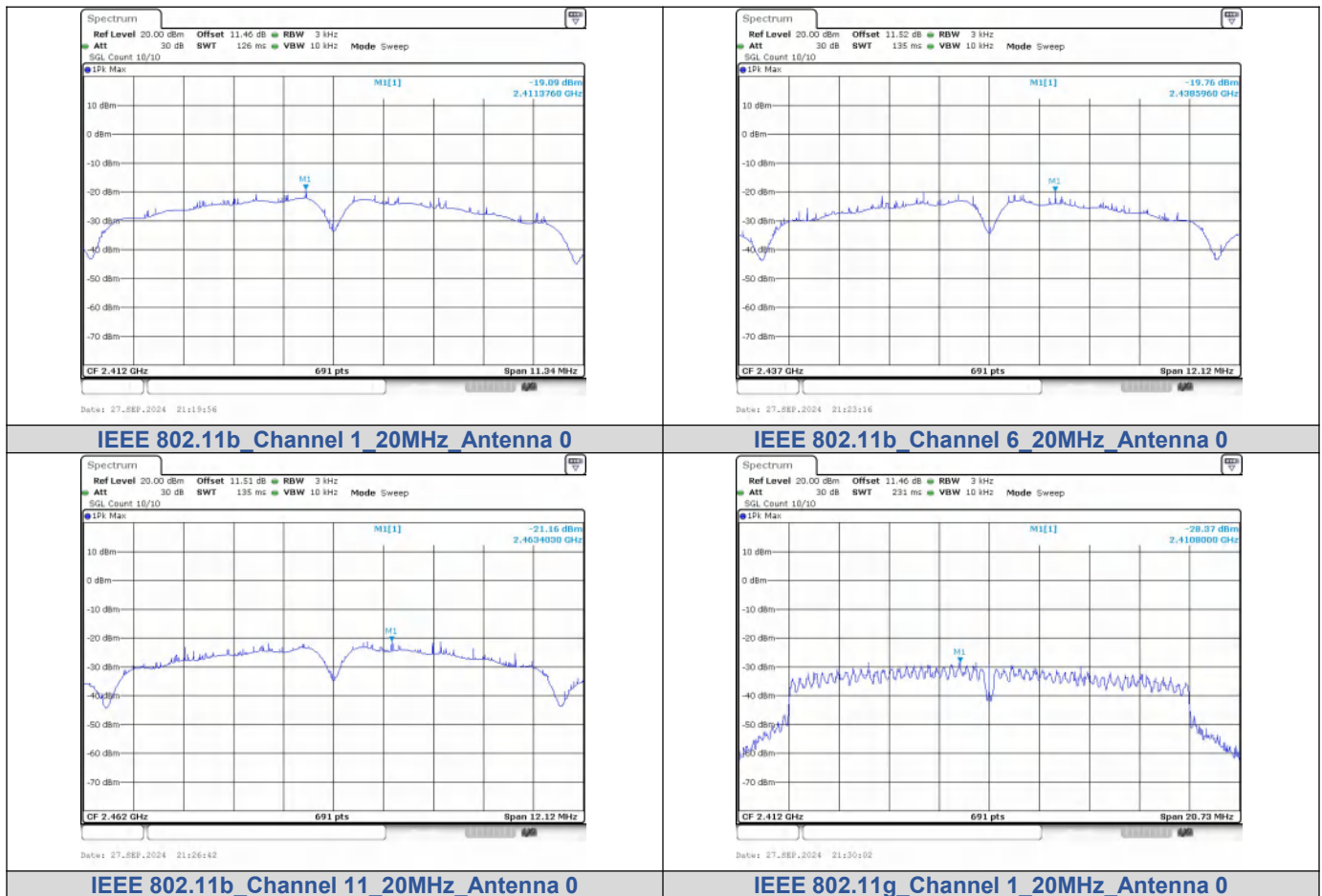
IEEE 802.11n_40MHz_Channel 9

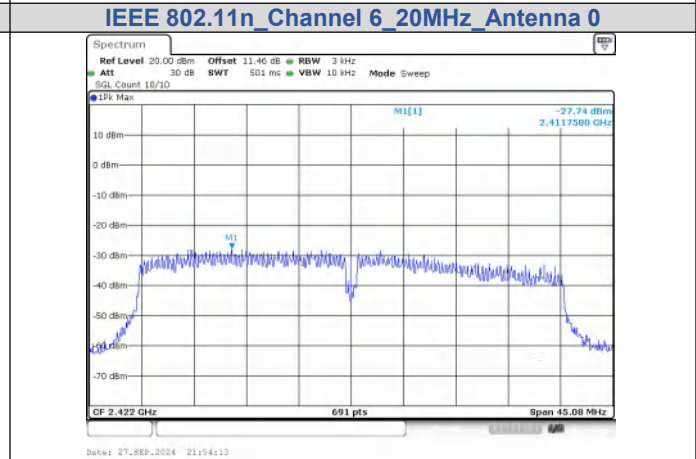
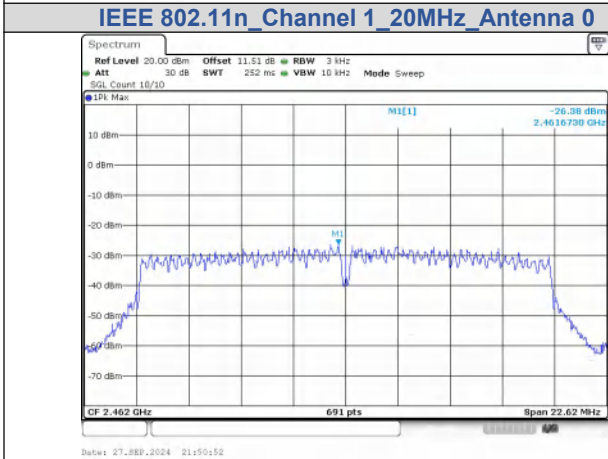
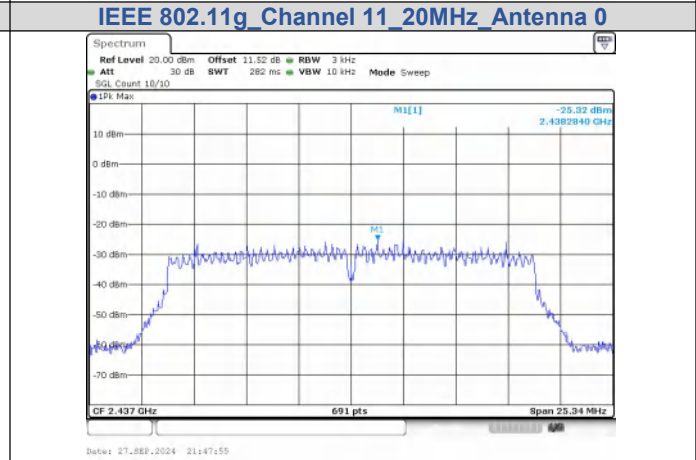
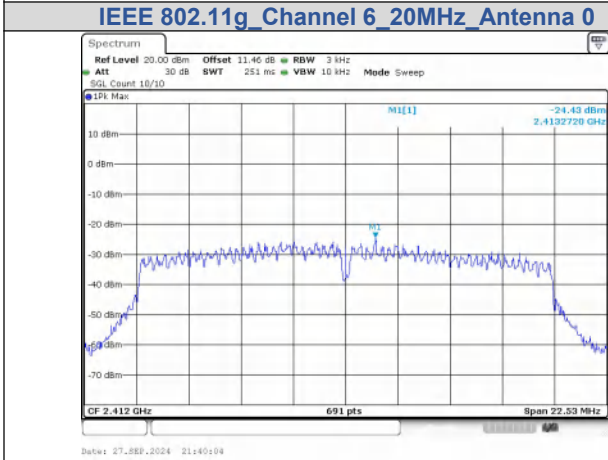
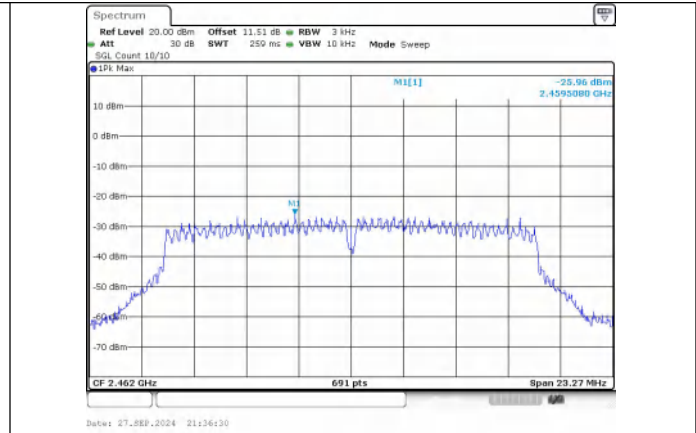
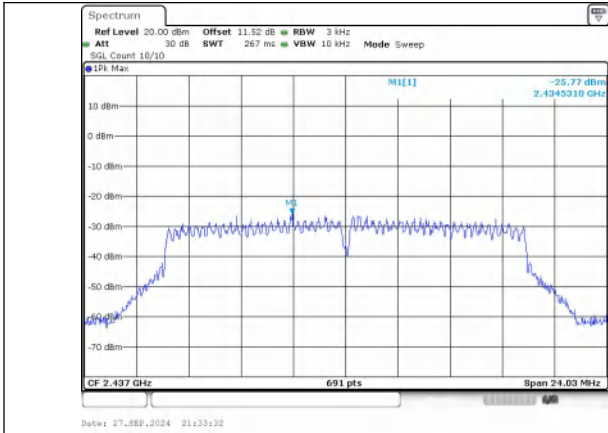
Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-19.09	≤8	PASS
	6	-19.76		PASS
	11	-21.16		PASS
IEEE 802.11g	1	-28.38		PASS
	6	-25.77		PASS
	11	-25.96		PASS
IEEE 802.11n_20	1	-24.43		PASS
	6	-25.32		PASS
	11	-26.38		PASS
IEEE 802.11n_40	3	-27.74		PASS
	6	-28.50		PASS
	9	-27.65		PASS

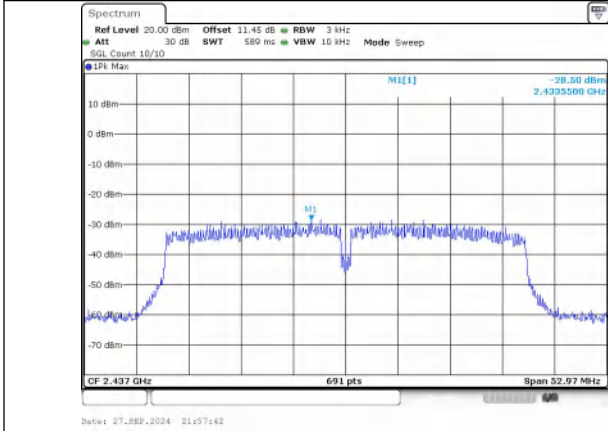
Test Graphs



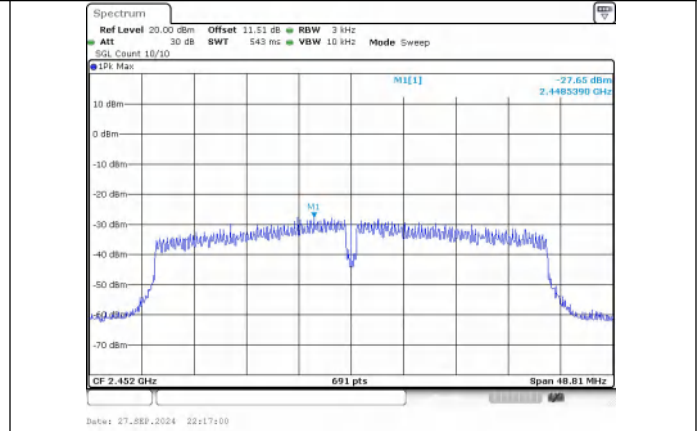


IEEE 802.11n Channel 11 20MHz Antenna 0

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 Peak Output Power

Test Result

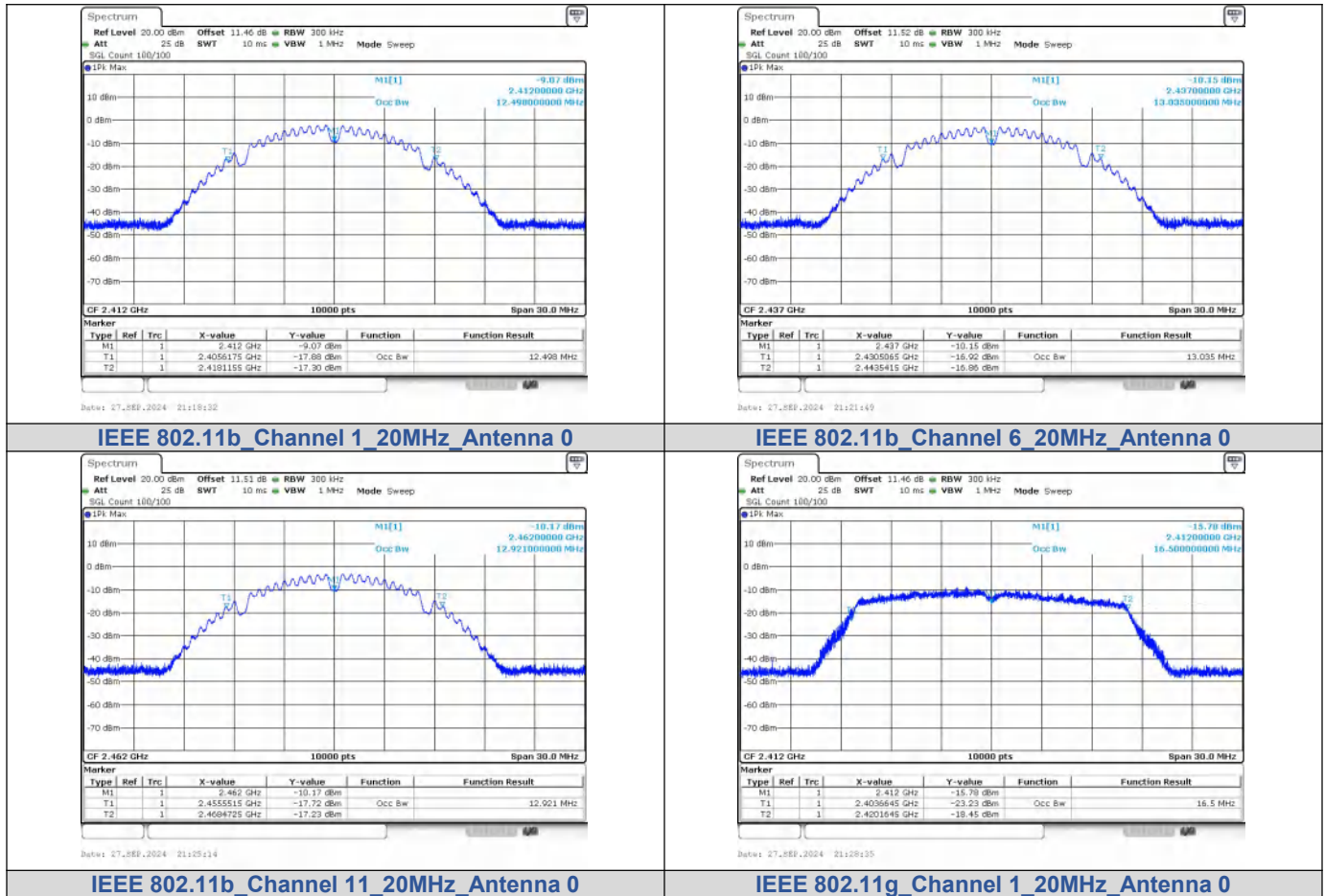
Conducted Output Power

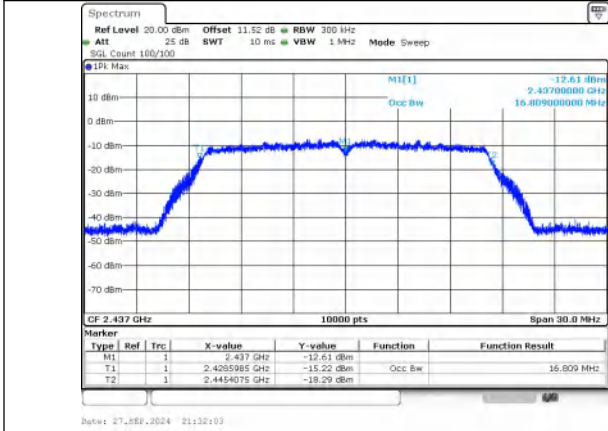
Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	8.05	≤30	PASS
	6	7.46	≤30	PASS
	11	7.26	≤30	PASS
IEEE 802.11g	1	8.82	≤30	PASS
	6	8.63	≤30	PASS
	11	8.46	≤30	PASS
IEEE 802.11n_20	1	8.91	≤30	PASS
	6	8.86	≤30	PASS
	11	8.31	≤30	PASS
IEEE 802.11n_40	3	8.71	≤30	PASS
	6	8.77	≤30	PASS
	9	8.45	≤30	PASS

99% Bandwidth Test Result

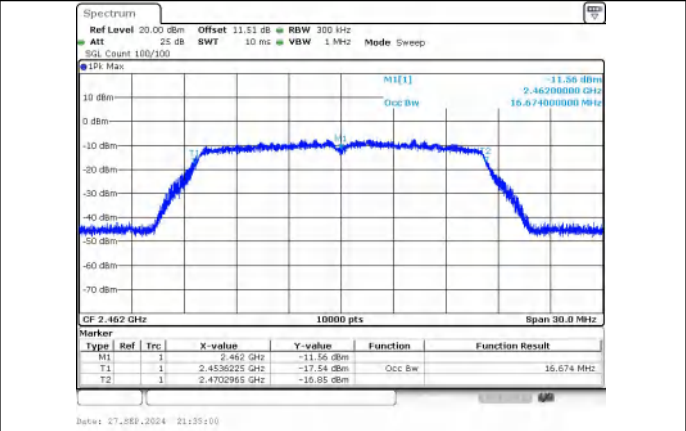
Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11b	1	0	2412	12.498
	6		2437	13.035
	11		2462	12.921
IEEE 802.11g	1		2412	16.500
	6		2437	16.809
	11		2462	16.674
IEEE 802.11n_20	1		2412	17.499
	6		2437	17.784
	11		2462	17.658
IEEE 802.11n_40	3		2422	35.892
	6		2437	36.198
	9		2452	35.934

Test Graphs

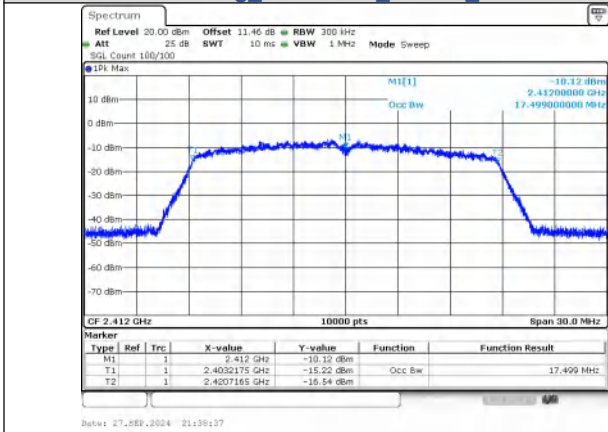




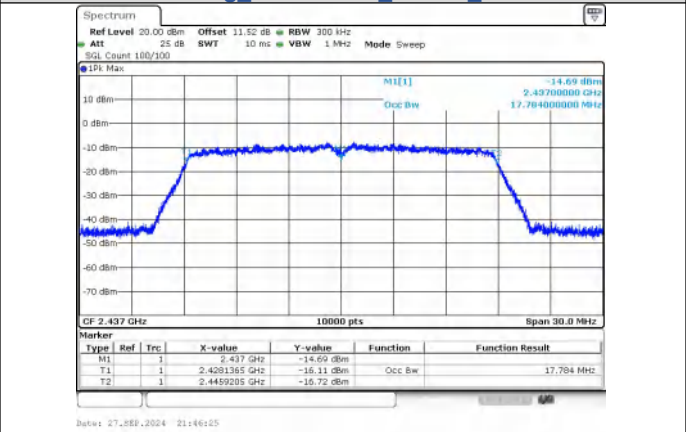
IEEE 802.11g Channel 6 20MHz Antenna 0



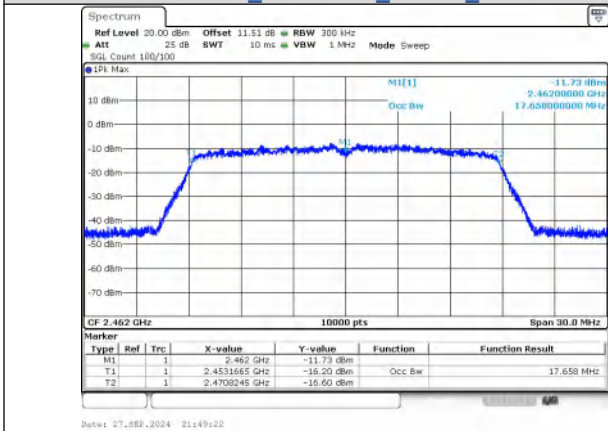
IEEE 802.11g Channel 11 20MHz Antenna 0



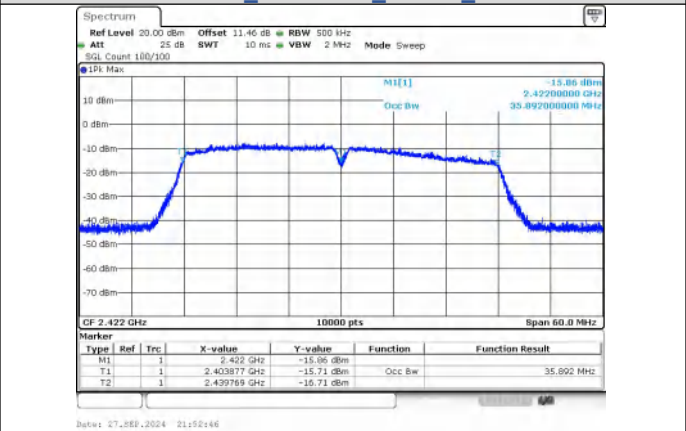
IEEE 802.11g Channel 11 20MHz Antenna 0



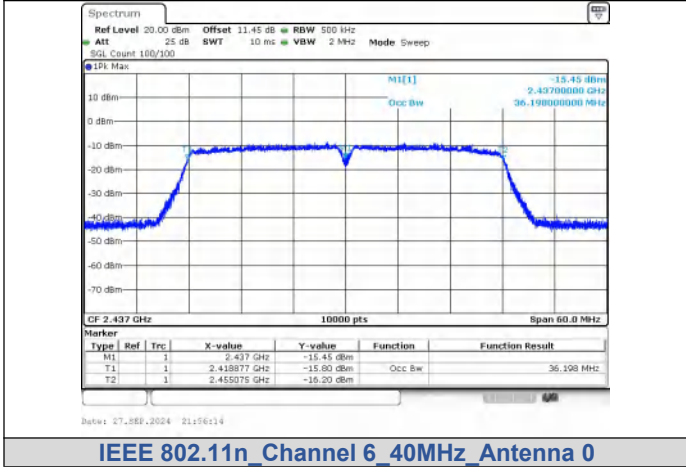
IEEE 802.11n Channel 1 20MHz Antenna 0



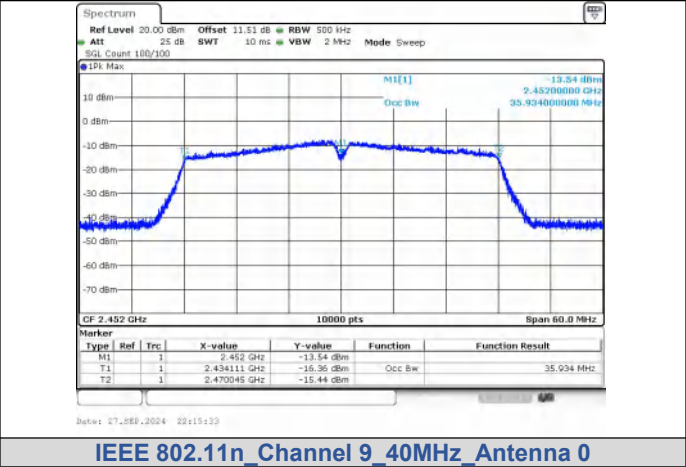
IEEE 802.11n Channel 11 20MHz Antenna 0



IEEE 802.11n Channel 3 40MHz Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0



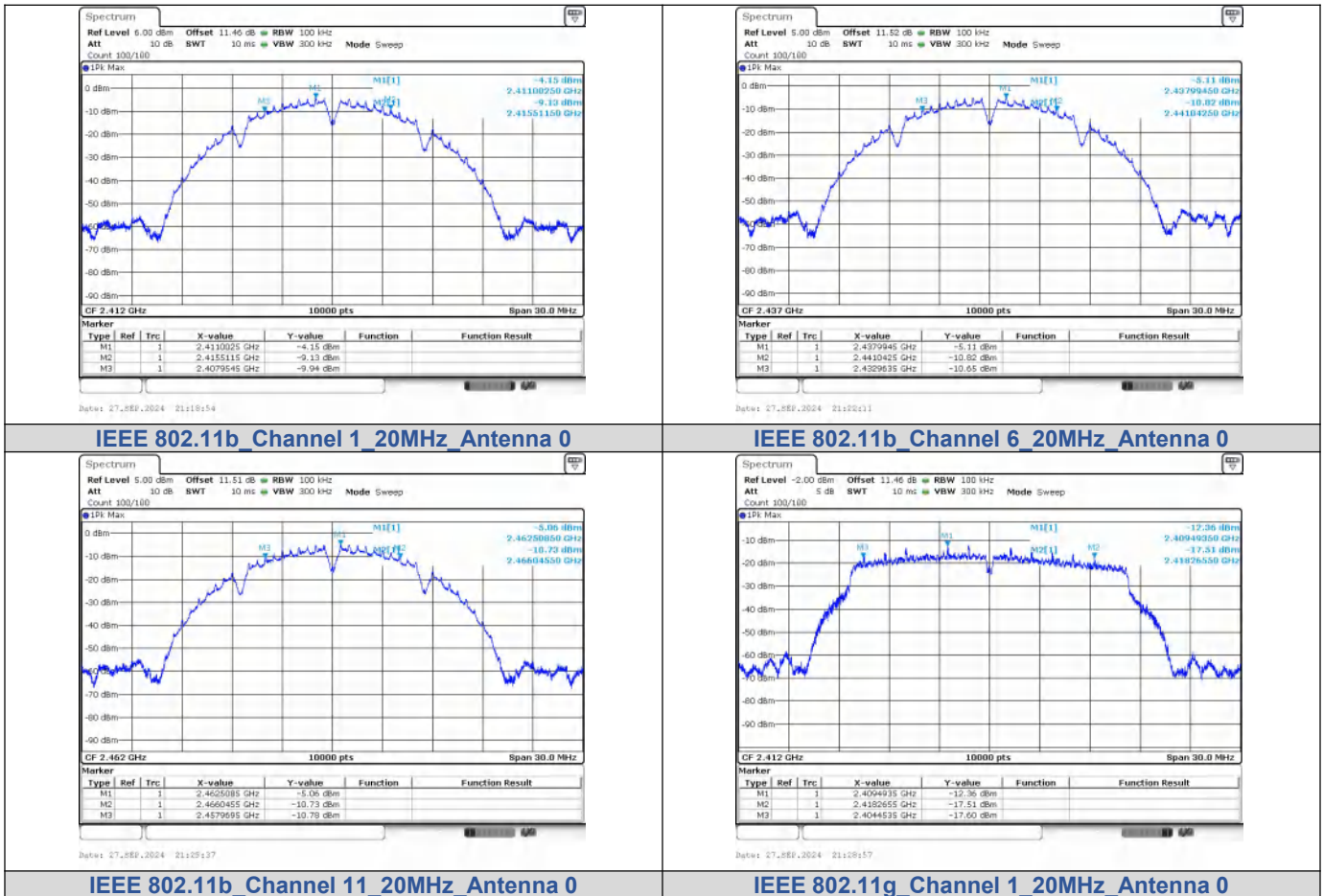
IEEE 802.11n_Channel 9_40MHz_Antenna 0

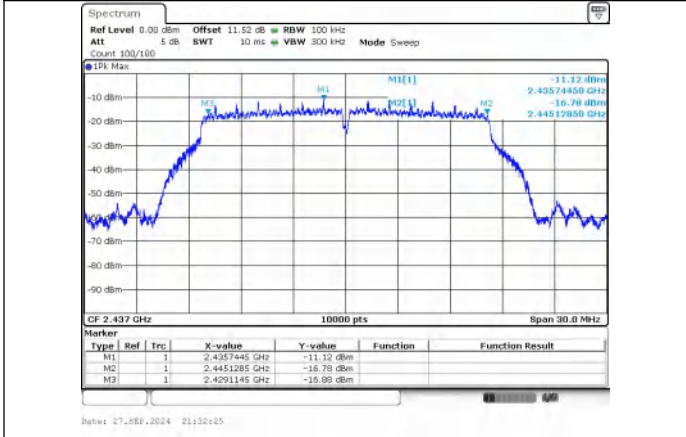
6dB Bandwidth

Test Result

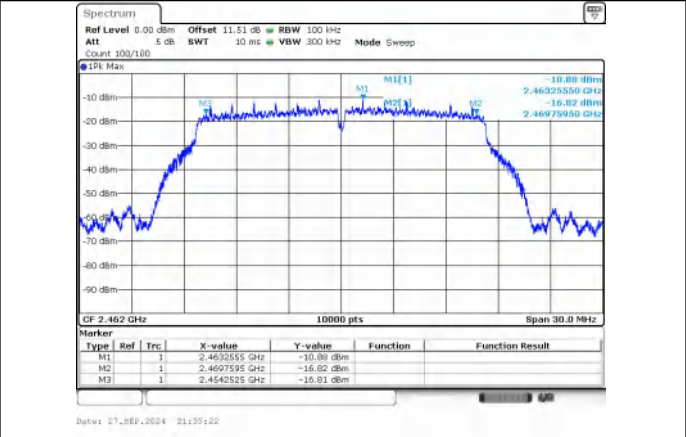
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	7.560	≥0.5	PASS
	6		2437	8.080		PASS
	11		2462	8.080		PASS
IEEE 802.11g	1		2412	13.82		PASS
	6		2437	16.02		PASS
	11		2462	15.51		PASS
IEEE 802.11n_20	1		2412	15.02		PASS
	6		2437	16.89		PASS
	11		2462	15.08		PASS
IEEE 802.11n_40	3		2422	30.05		PASS
	6		2437	35.31		PASS
	9		2452	32.54		PASS

Test Graphs

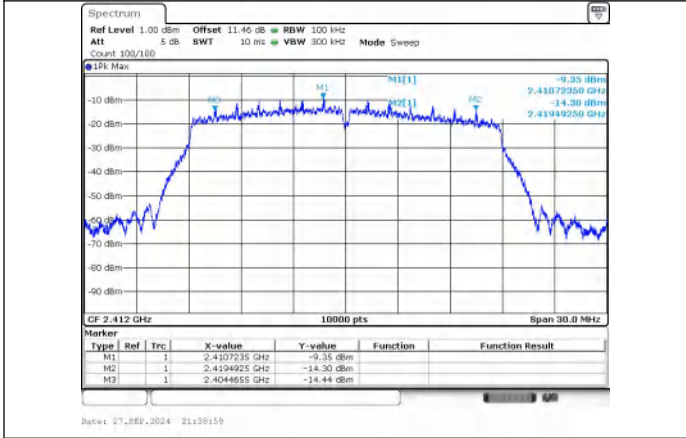




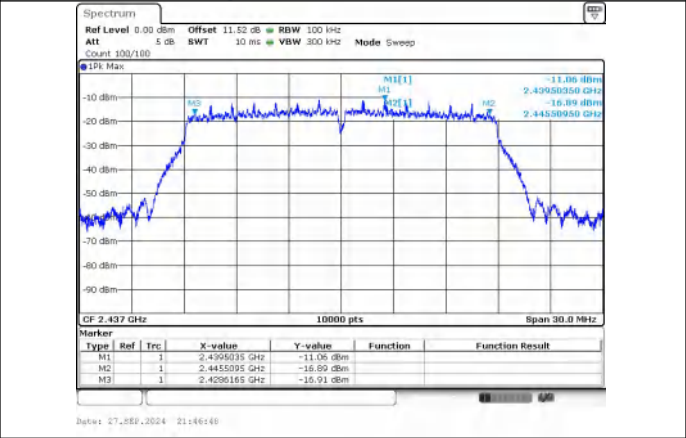
IEEE 802.11g Channel 6 20MHz Antenna 0



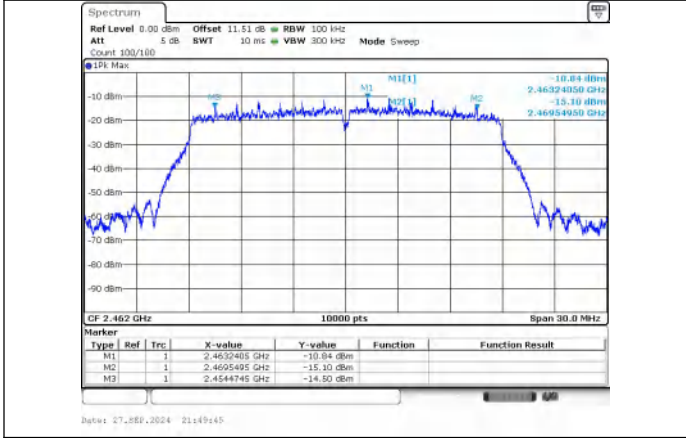
IEEE 802.11g Channel 11 20MHz Antenna 0



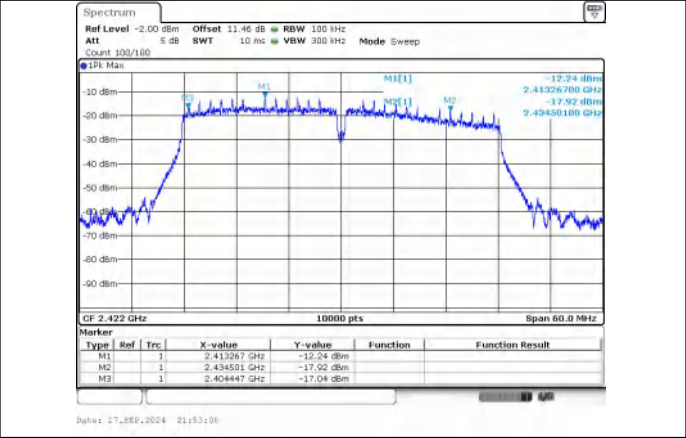
IEEE 802.11n Channel 1 20MHz Antenna 0



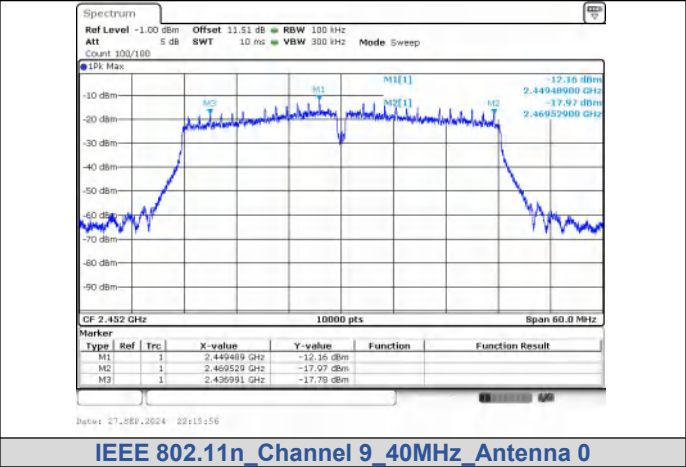
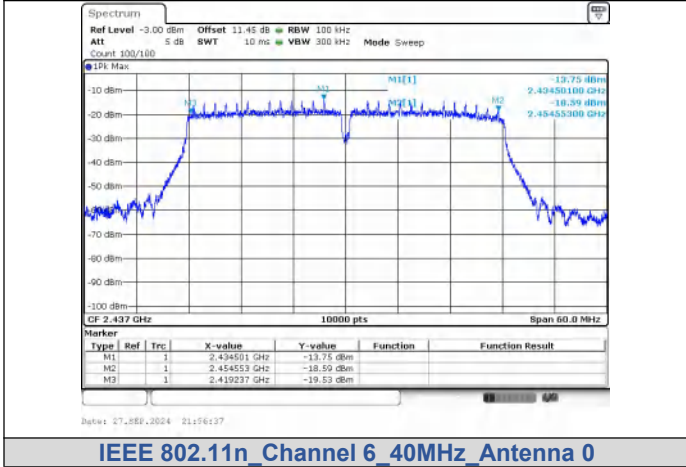
IEEE 802.11n Channel 6 20MHz Antenna 0



IEEE 802.11n Channel 11 20MHz Antenna 0



IEEE 802.11n Channel 3 40MHz Antenna 0

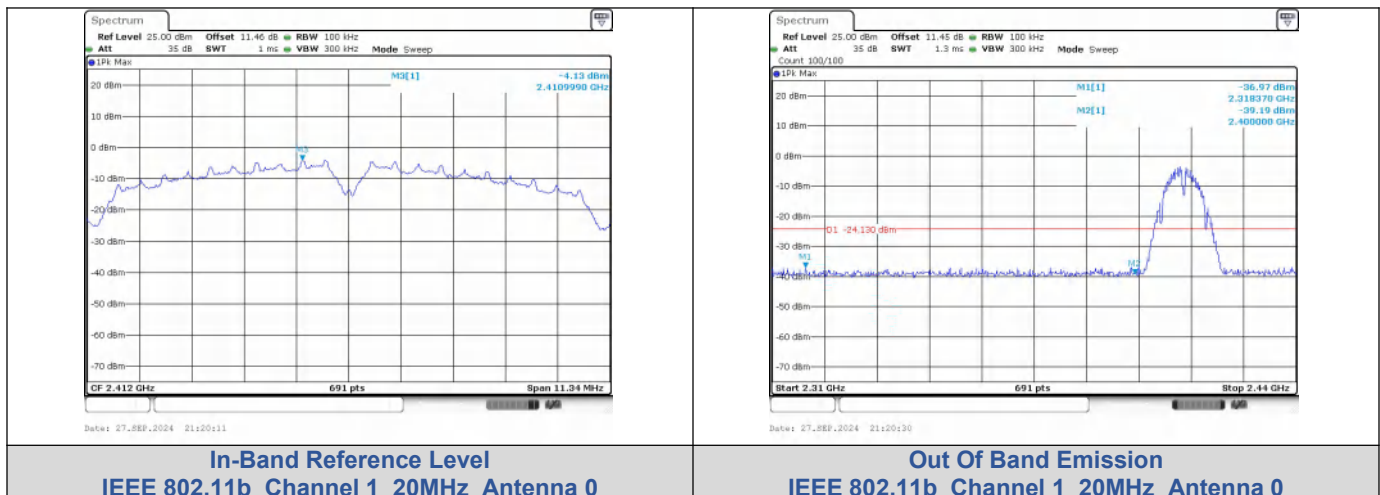


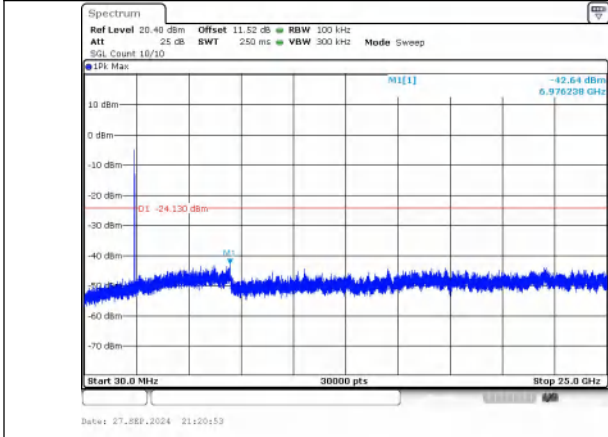
Conducted Out Of Band Emission

Test Result

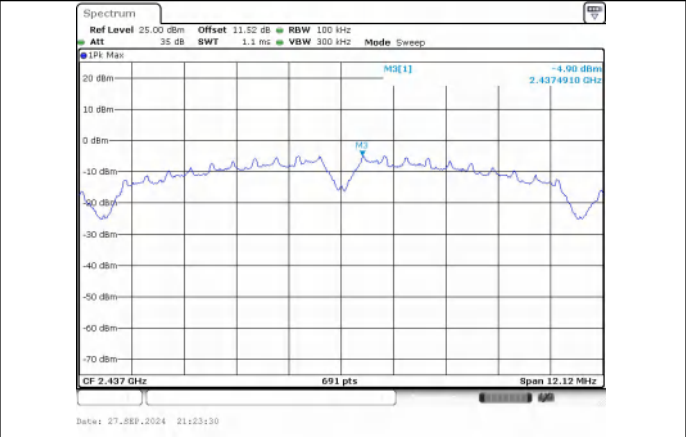
Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2318.37	-36.972	-24.13	-12.842	PASS
			2400.00	-39.195	-24.13	-15.065	PASS
			6976.20	-42.642	-24.13	-18.512	PASS
	6		6974.57	-42.931	-24.9	-18.031	PASS
			2483.50	-38.514	-25.17	-13.343	PASS
			6969.58	-43.640	-25.17	-18.470	PASS
IEEE 802.11g	1		2325.52	-36.855	-32.57	-4.285	PASS
			2400.00	-39.242	-32.57	-6.672	PASS
			6938.00	-43.227	-32.57	-10.657	PASS
	6		6965.42	-43.414	-30.61	-12.804	PASS
			2483.50	-37.819	-29.83	-7.989	PASS
			6918.81	-43.194	-29.83	-13.364	PASS
IEEE 802.11n_20	1	2357.88	-37.413	-29.19	-8.223	PASS	
		2400.00	-39.088	-29.19	-9.898	PASS	
		6897.20	-42.586	-29.19	-13.396	PASS	
	6	6967.91	-43.066	-29.93	-13.136	PASS	
		2483.50	-37.328	-29.68	-7.648	PASS	
		6964.59	-42.359	-29.68	-12.679	PASS	
IEEE 802.11n_40	3	2383.09	-36.947	-32.02	-4.927	PASS	
		2400.00	-38.123	-32.02	-6.102	PASS	
		6271.30	-43.314	-32.02	-11.294	PASS	
	6	6827.25	-42.819	-32.61	-10.209	PASS	
		2483.50	-38.030	-32.17	-5.860	PASS	
		6897.17	-41.862	-32.17	-9.692	PASS	

Test Graphs

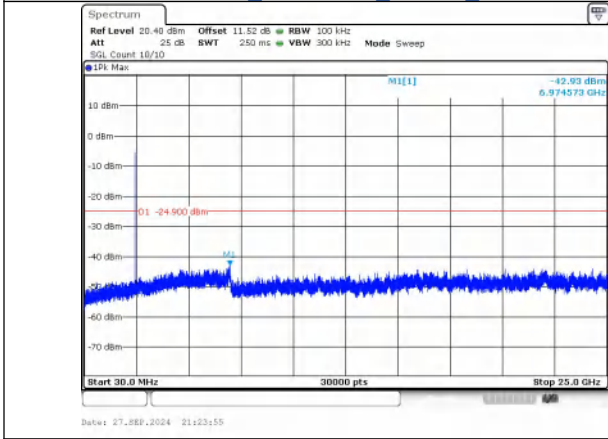




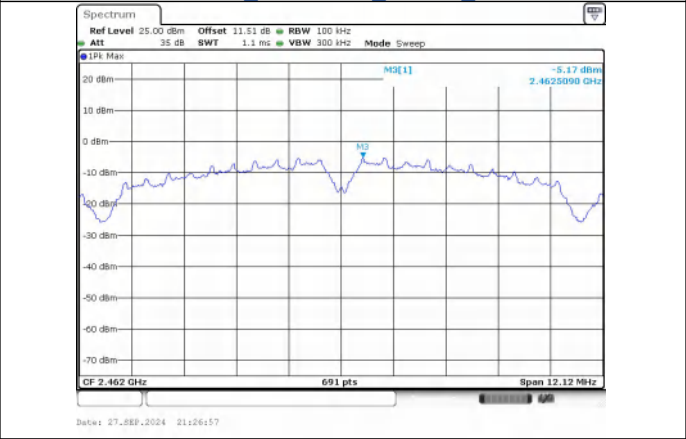
30.0 MHz - 25000.0 MHz
IEEE 802.11b Channel 1_20MHz_Antenna 0



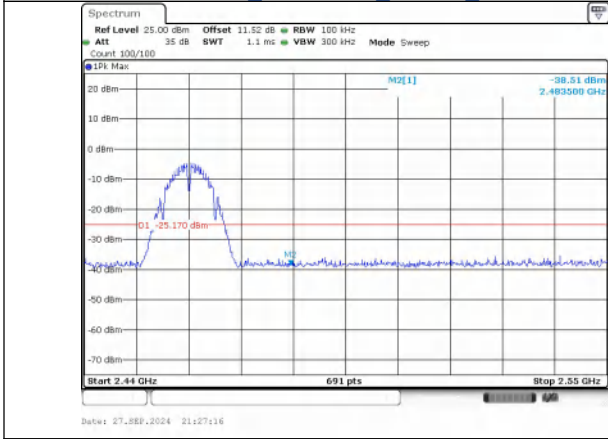
In-Band Reference Level
IEEE 802.11b Channel 6_20MHz_Antenna 0



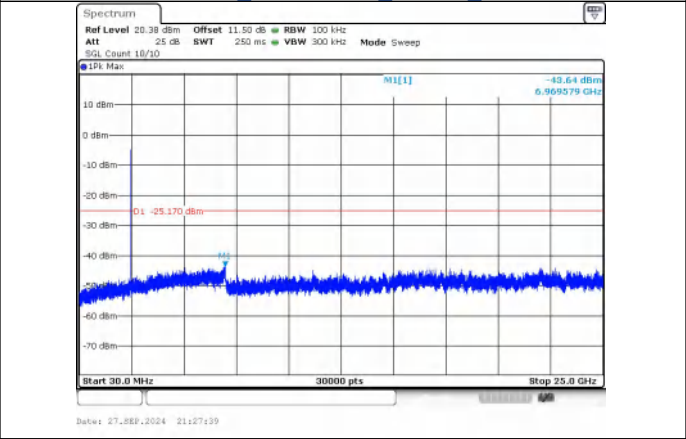
30.0 MHz - 25000.0 MHz
IEEE 802.11b Channel 1_20MHz_Antenna 0



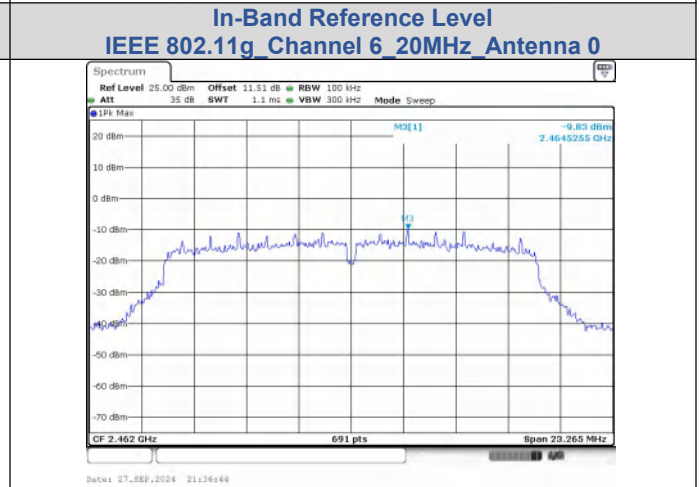
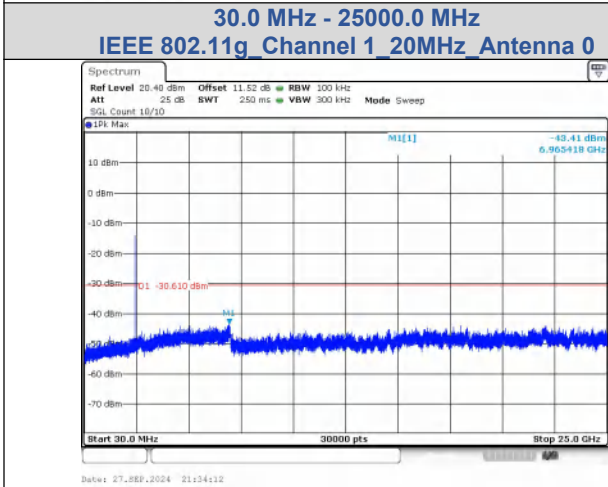
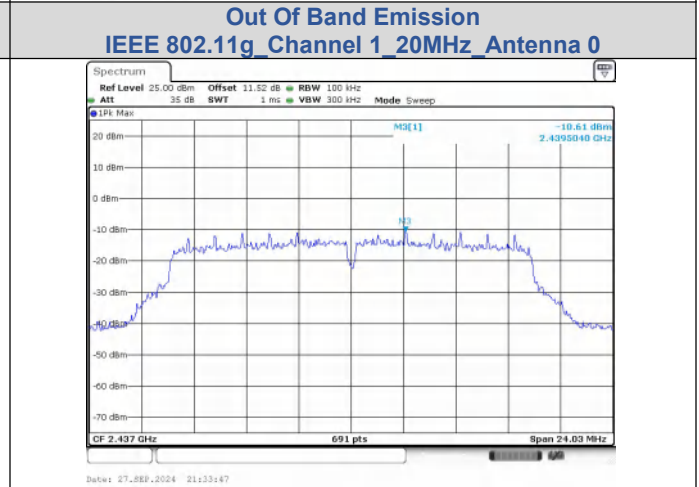
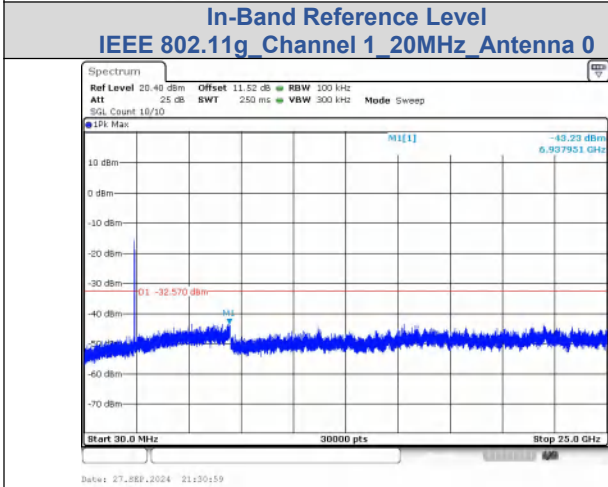
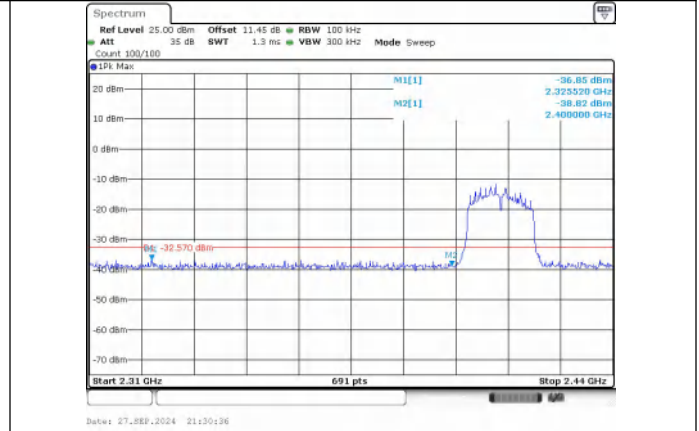
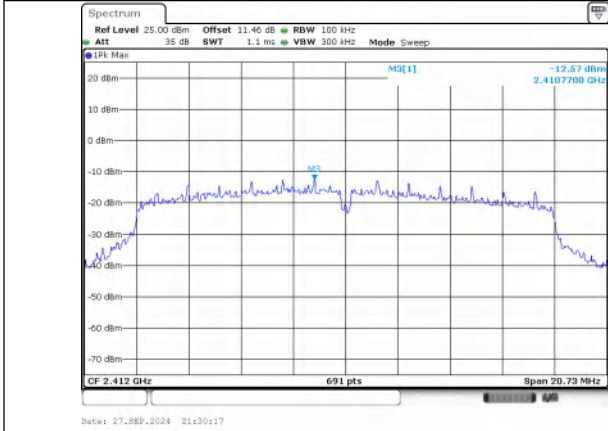
In-Band Reference Level
IEEE 802.11b Channel 11_20MHz_Antenna 0

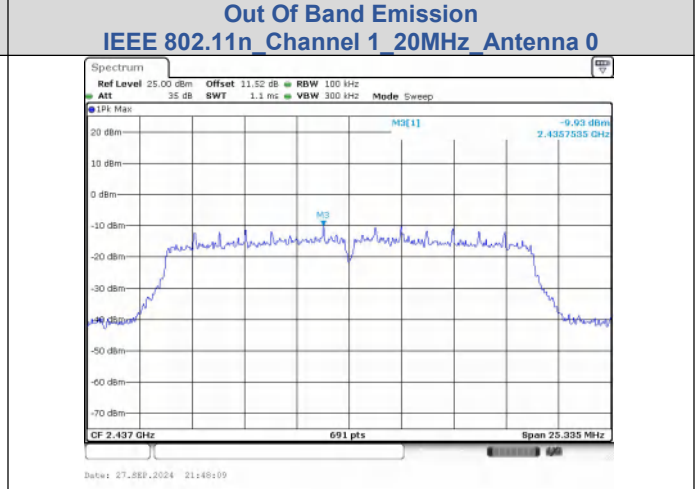
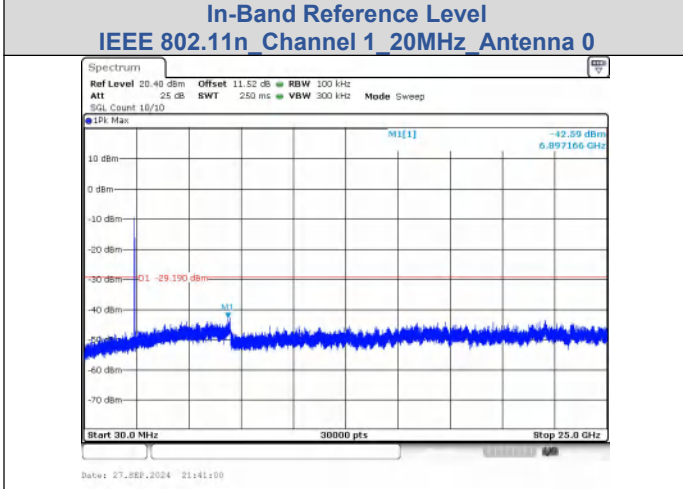
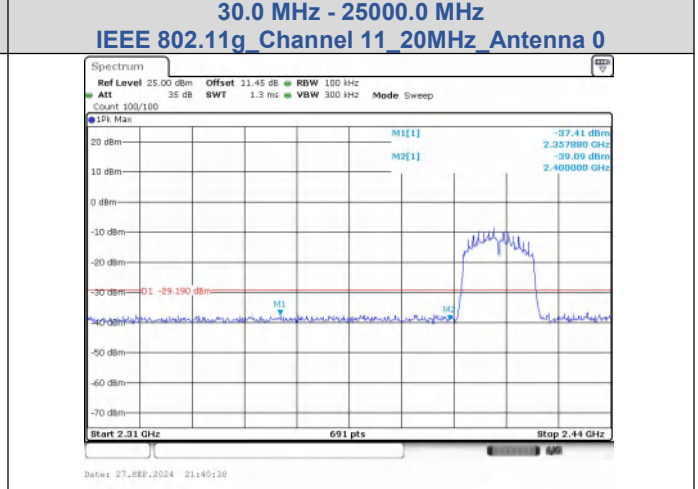
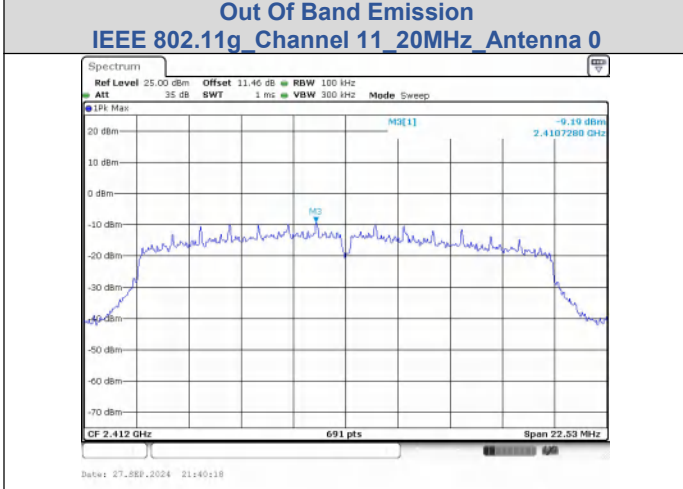
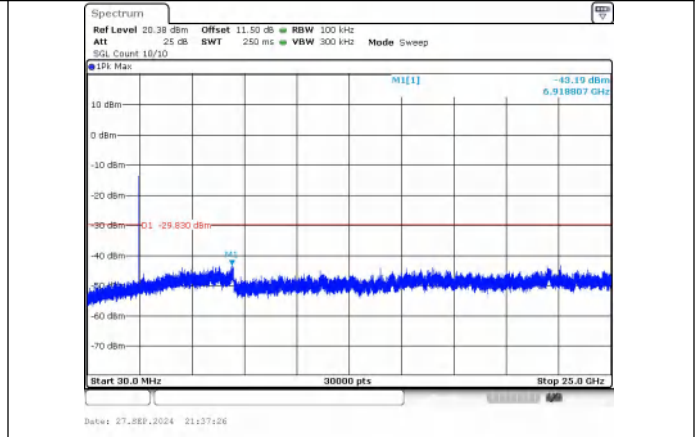
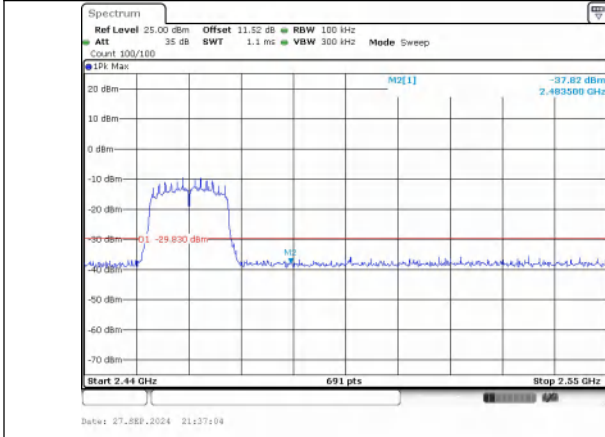


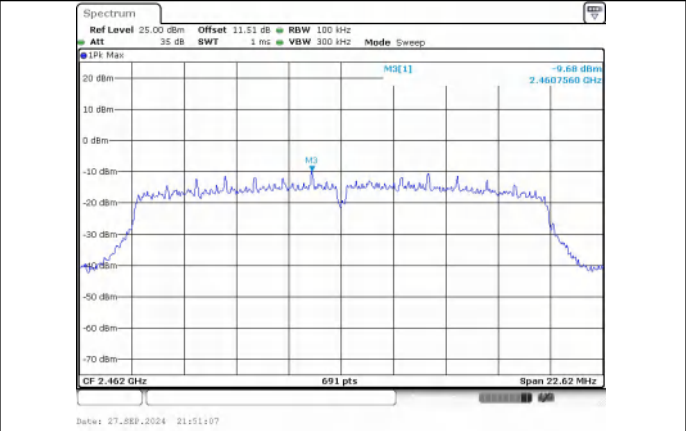
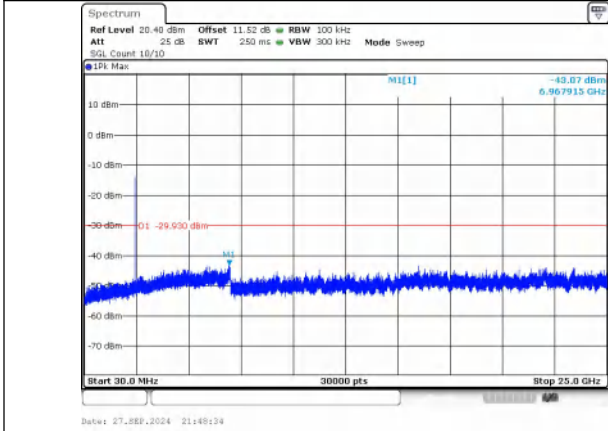
Out Of Band Emission
IEEE 802.11b Channel 11_20MHz_Antenna 0



30.0 MHz - 25000.0 MHz
IEEE 802.11b Channel 11_20MHz_Antenna 0

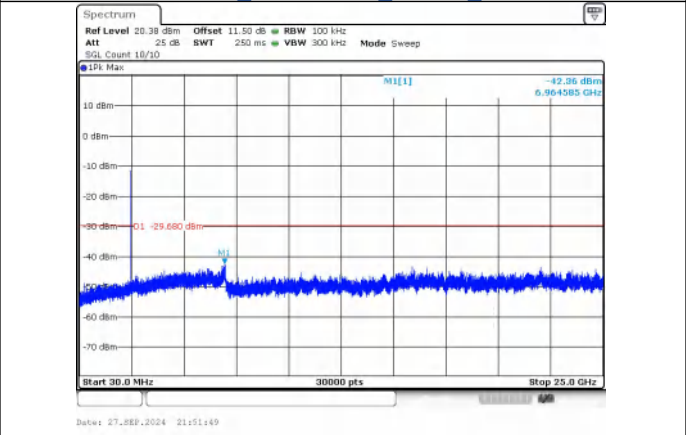
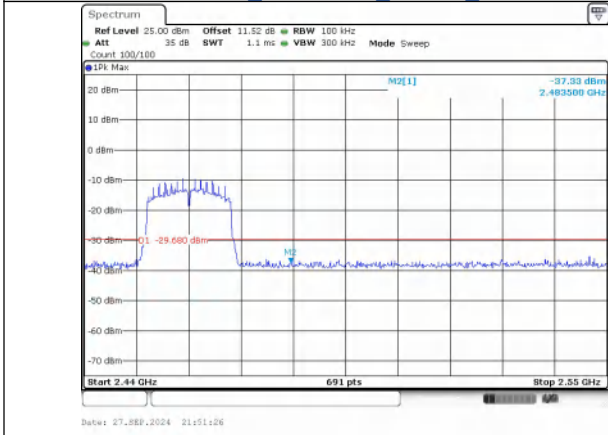






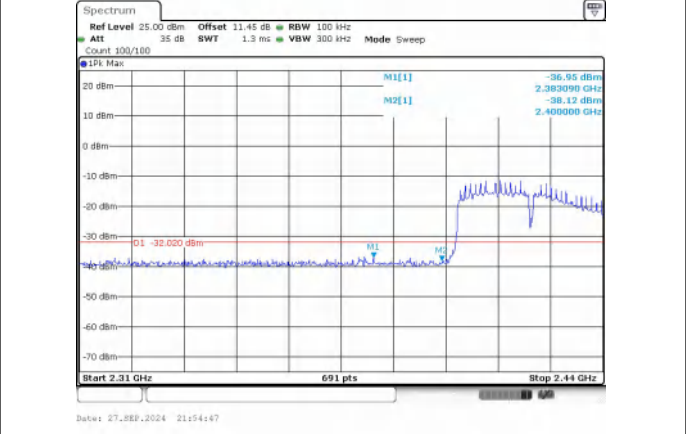
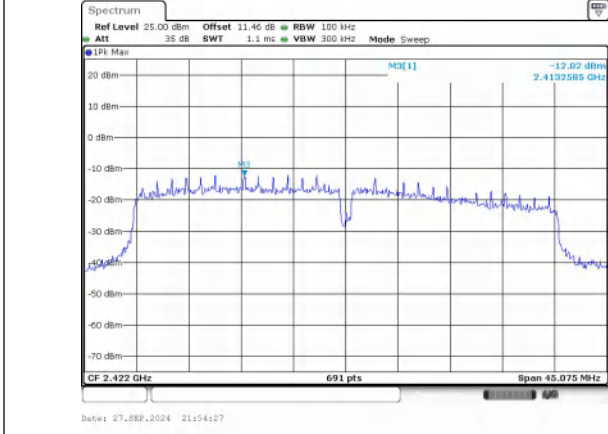
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IEEE 802.11n Channel 6 20MHz Antenna 0**

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



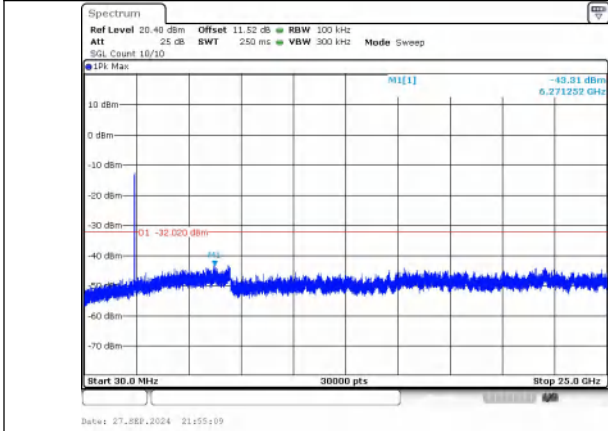
**Out Of Band Emission
IEEE 802.11n Channel 11 20MHz Antenna 0**

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

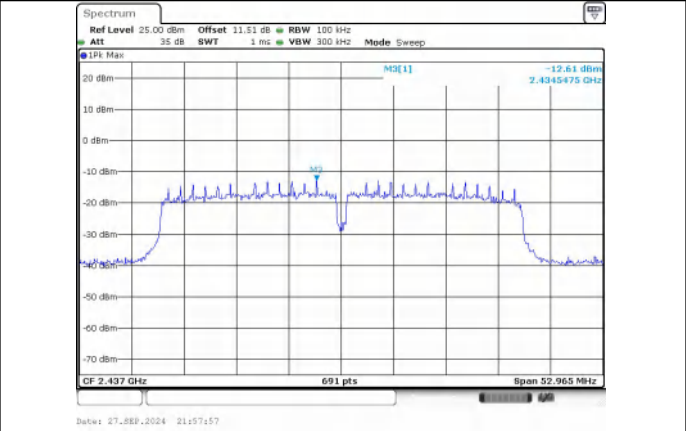


**In-Band Reference Level
IEEE 802.11n Channel 3 40MHz Antenna 0**

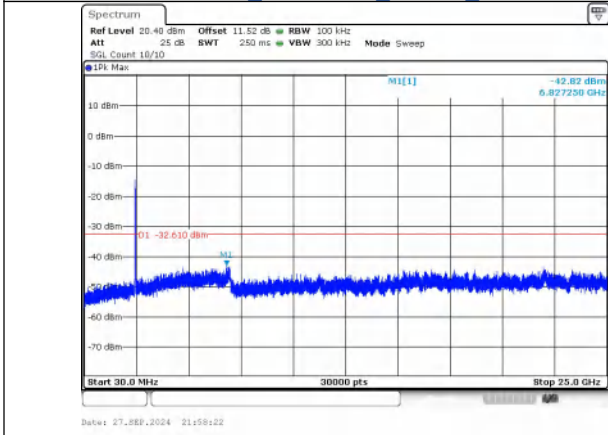
**Out Of Band Emission
IEEE 802.11n Channel 3 40MHz Antenna 0**



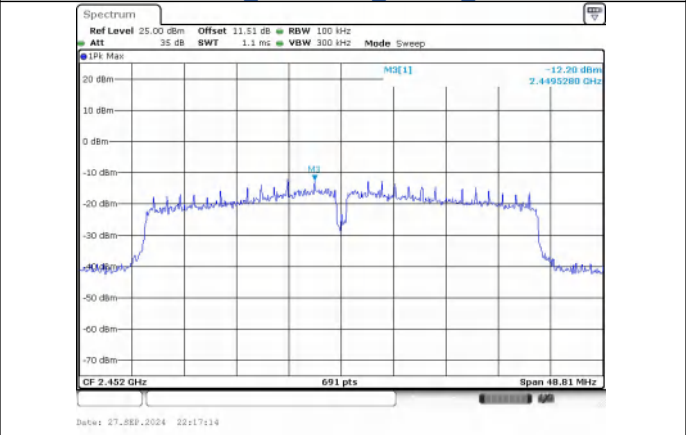
30.0 MHz - 25000.0 MHz
IEEE 802.11n Channel 3 40MHz Antenna 0



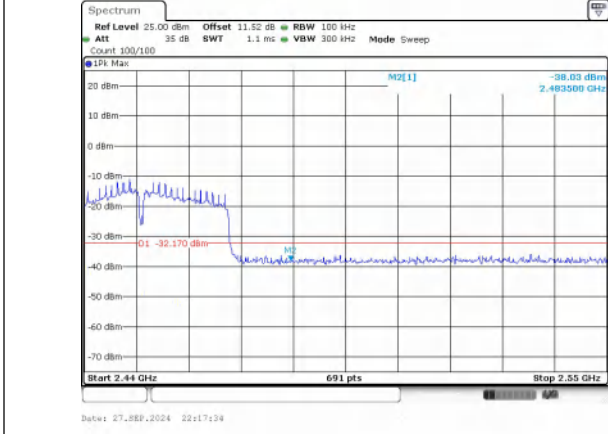
In-Band Reference Level
IEEE 802.11n Channel 6 40MHz Antenna 0



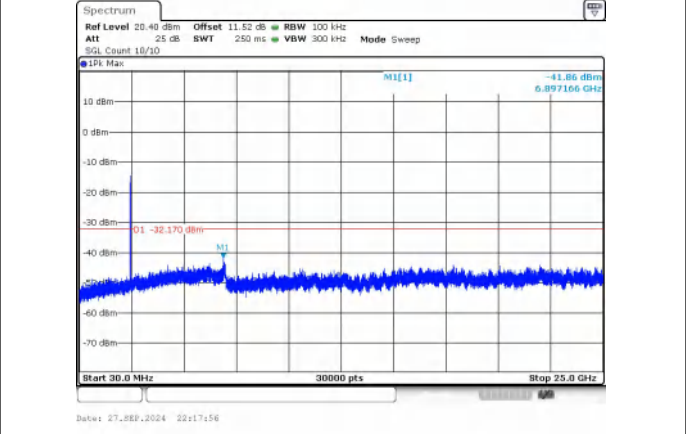
30.0 MHz - 25000.0 MHz
IEEE 802.11n Channel 6 40MHz Antenna 0



In-Band Reference Level
IEEE 802.11n Channel 9 40MHz Antenna 0



Out Of Band Emission
IEEE 802.11n Channel 9 40MHz Antenna 0



30.0 MHz - 25000.0 MHz
IEEE 802.11n Channel 9 40MHz Antenna 0