

Appendix Report

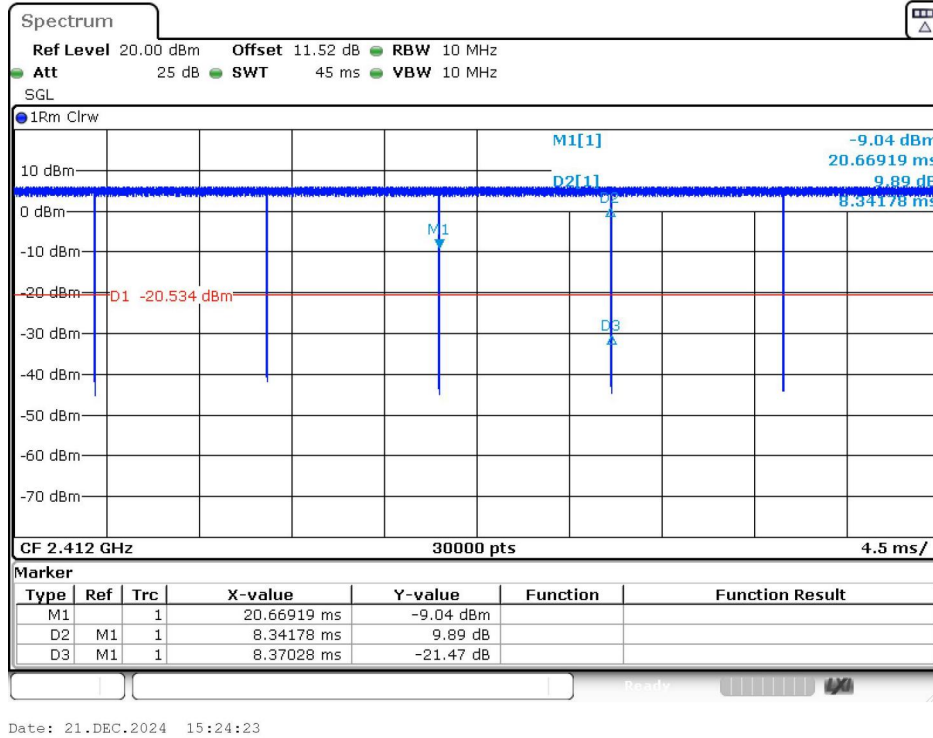
Report No.:	CISRR24121715706
Test Engineer:	Mark Fu
Supervised by:	Rory Huang

Duty Cycle

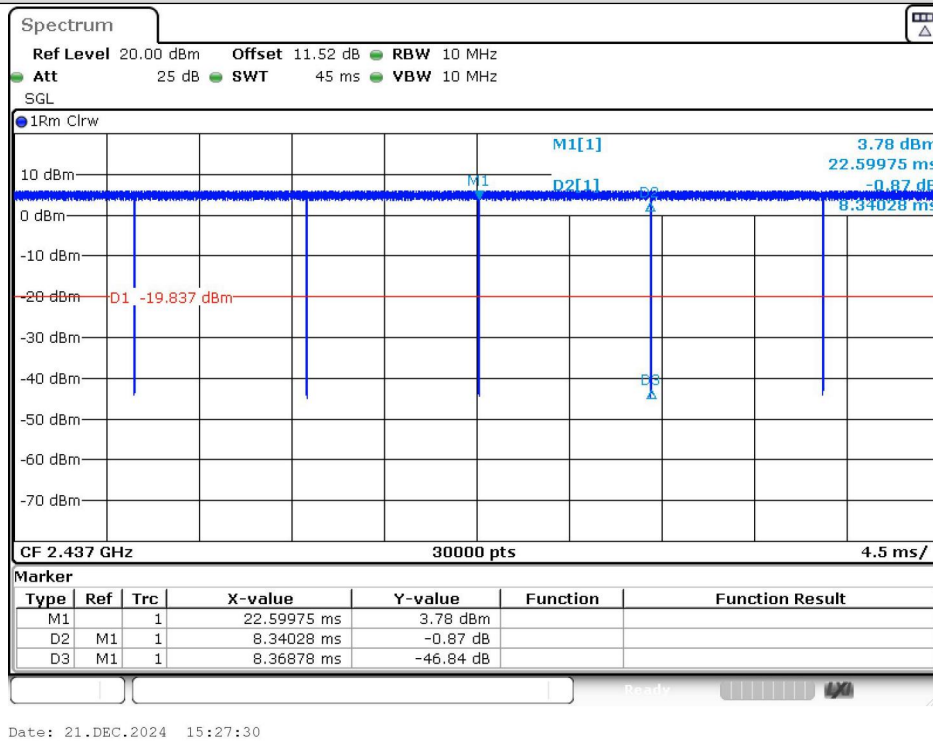
Test Result

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	8.342	8.370	99.66	0.9966	0.0148	0.1199
		6		8.340	8.369	99.66	0.9966	0.0148	0.1199
		11		8.319	8.348	99.65	0.9965	0.0152	0.1202
IEEE 802.11g		1		1.396	1.429	97.69	0.9769	0.1015	0.7163
		6		1.396	1.429	97.69	0.9769	0.1015	0.7163
		11		1.396	1.429	97.69	0.9769	0.1015	0.7163
IEEE 802.11n_20	MCS 0	1		1.304	1.337	97.53	0.9753	0.1086	0.7669
		6		1.304	1.337	97.53	0.9753	0.1086	0.7669
		11		1.304	1.337	97.53	0.9753	0.1086	0.7669

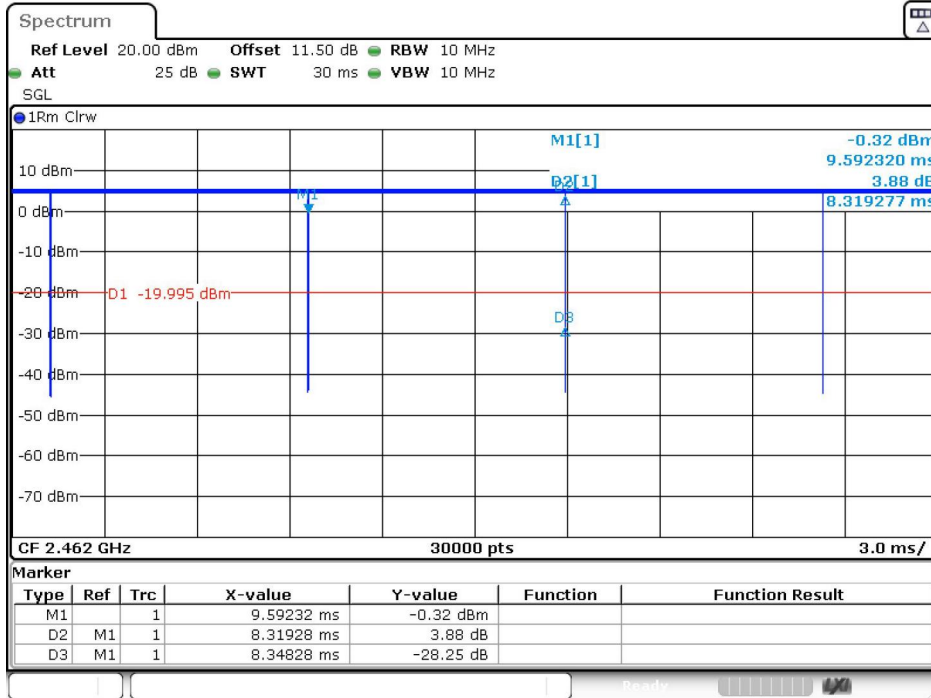
Test Graphs



IEEE 802.11b_20MHz_Channel 1

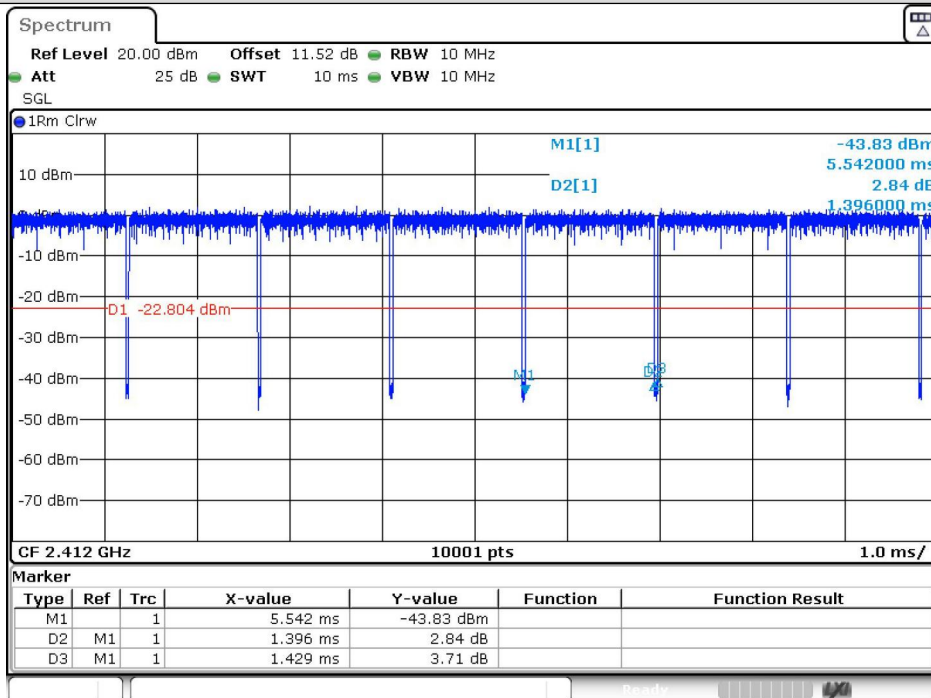


IEEE 802.11b_20MHz_Channel 6



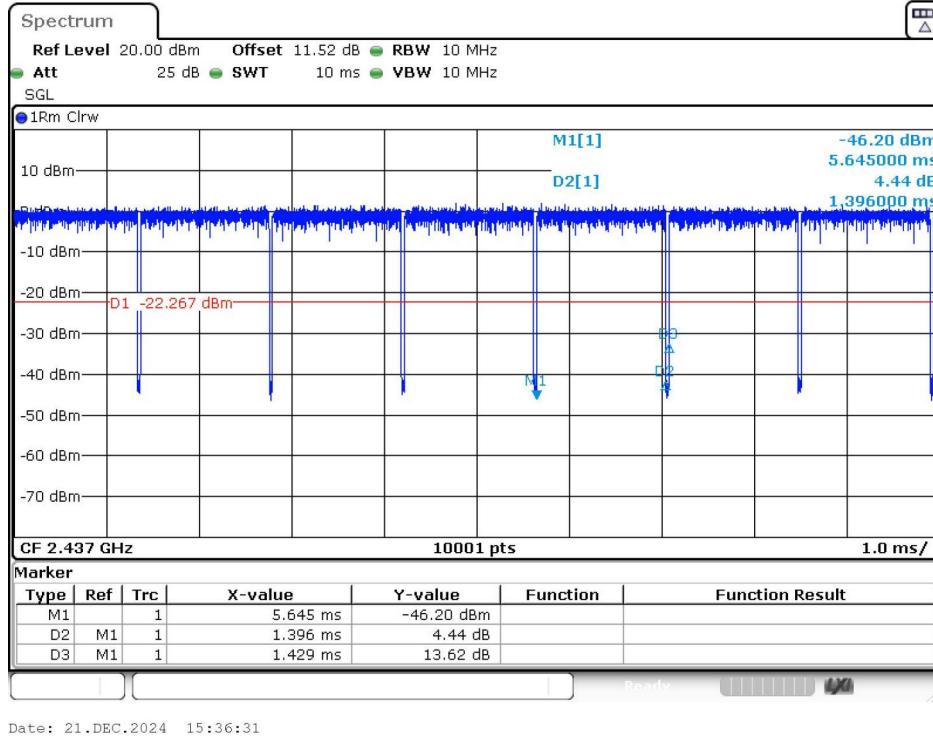
Date: 21.DEC.2024 15:29:54

IEEE 802.11b_20MHz_Channel 11

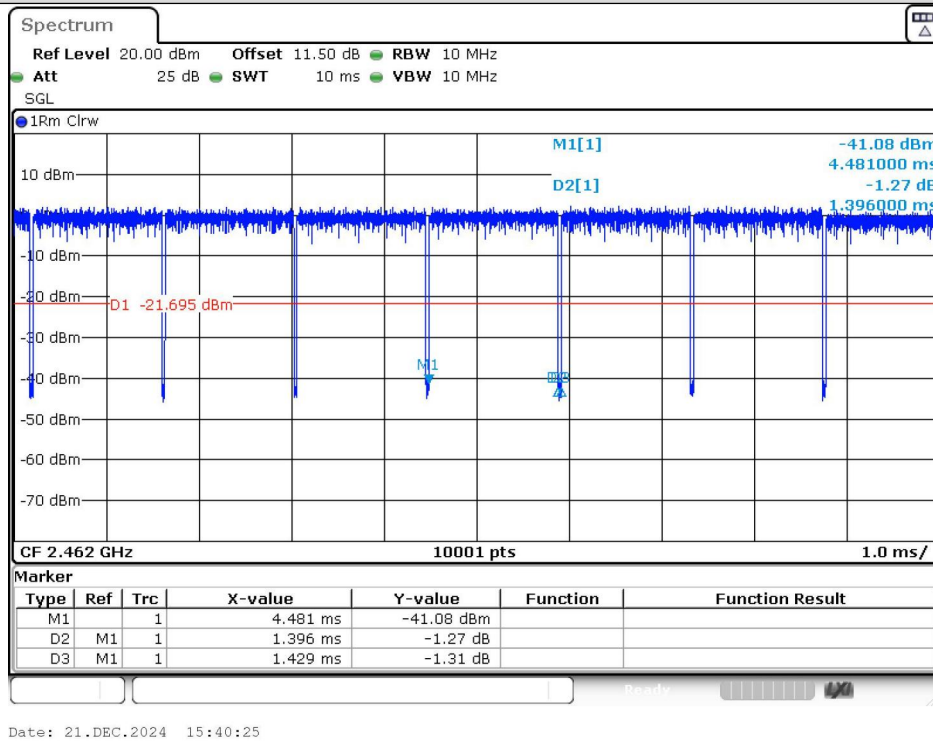


Date: 21.DEC.2024 15:33:56

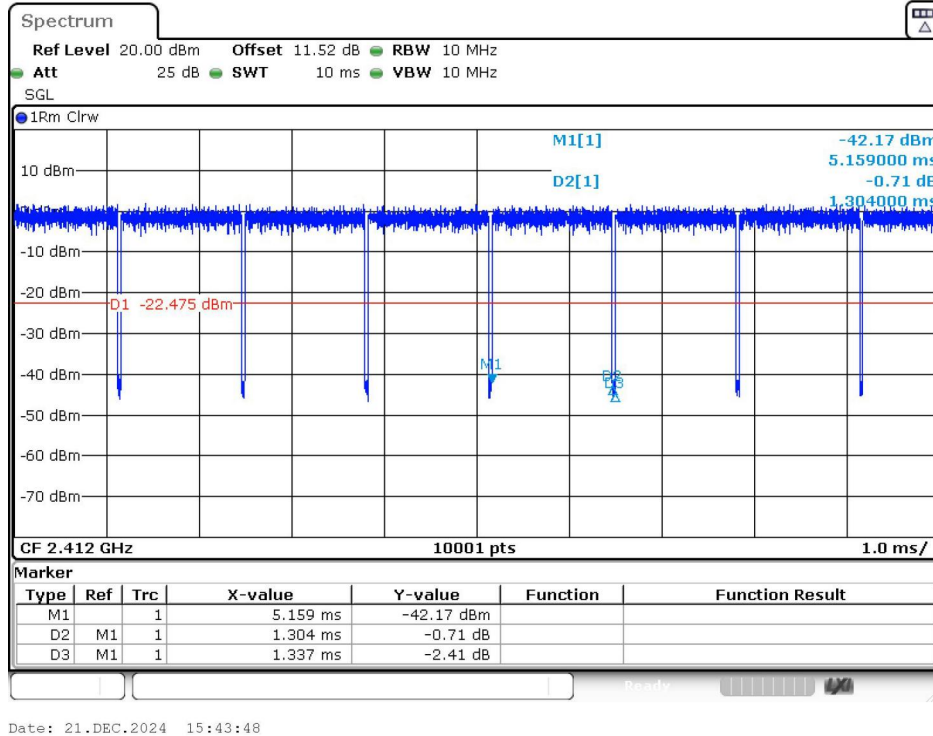
IEEE 802.11g_20MHz_Channel 1



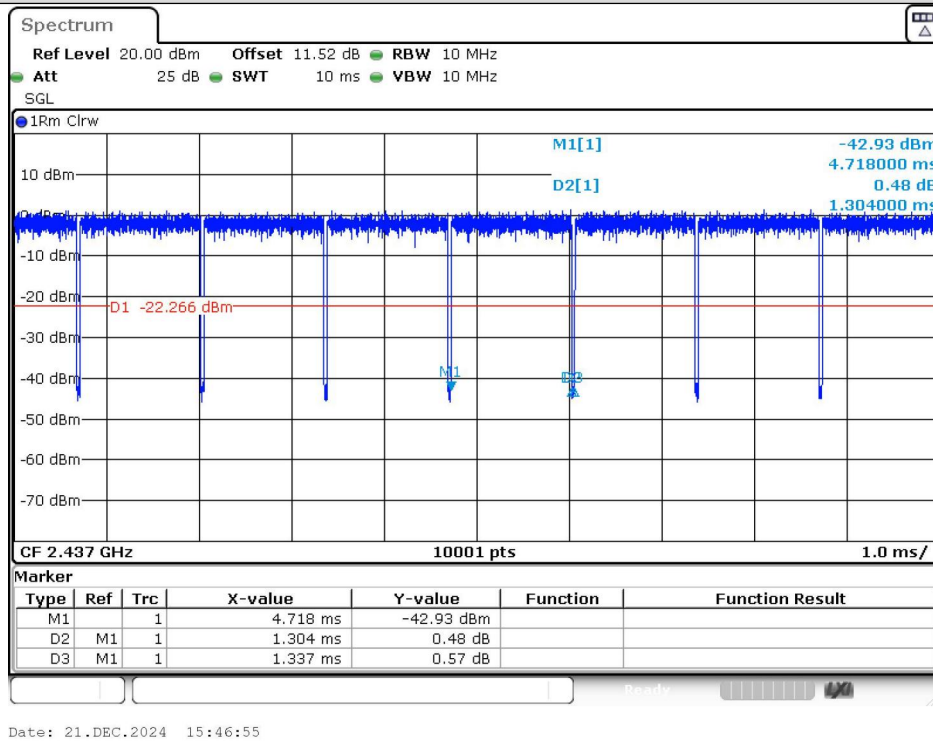
IEEE 802.11g_20MHz_Channel 6



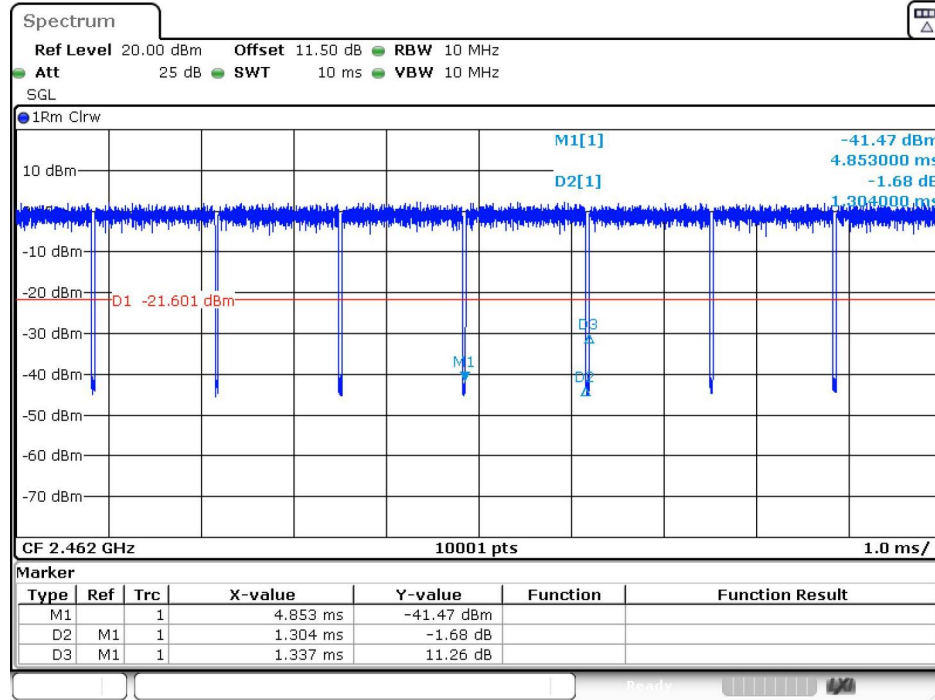
IEEE 802.11g_20MHz_Channel 11



IEEE 802.11n_20MHz_Channel 1



IEEE 802.11n_20MHz_Channel 6



Date: 21.DEC.2024 15:49:19

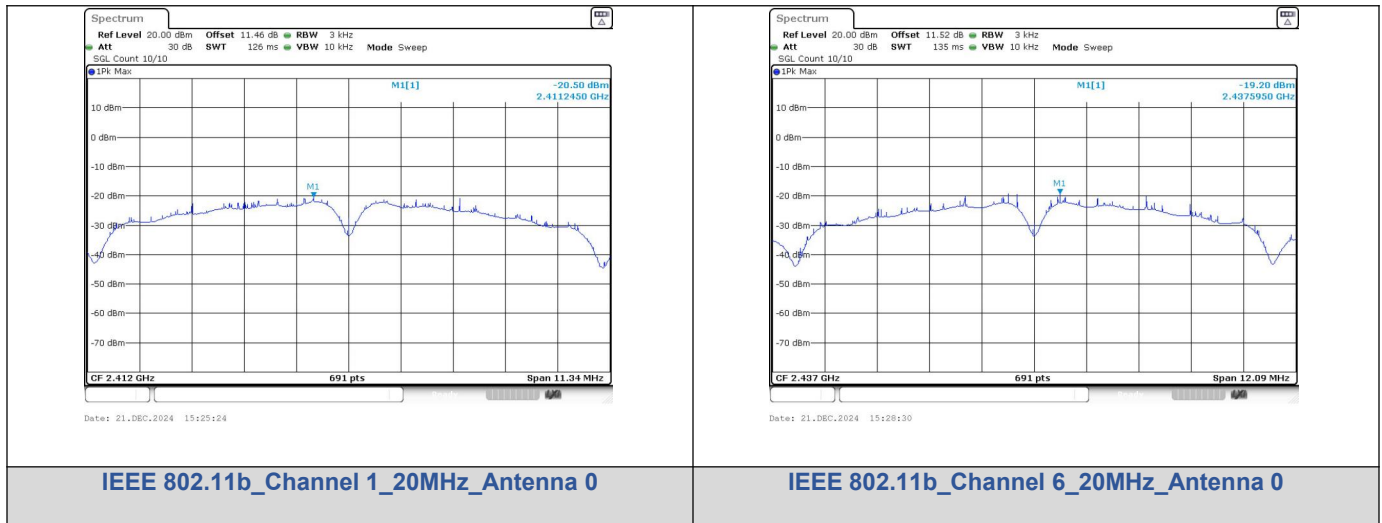
IEEE 802.11n_20MHz_Channel 11

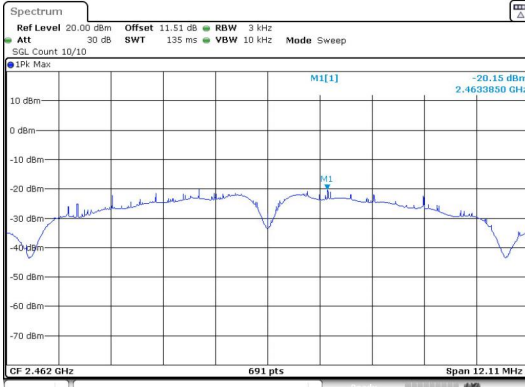
Power Spectral Density

Test Result

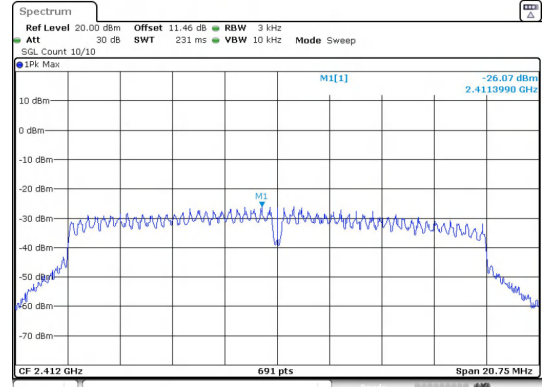
Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-20.500	≤8	PASS
	6	-19.200		PASS
	11	-20.150		PASS
IEEE 802.11g	1	-26.070		PASS
	6	-25.630		PASS
	11	-25.790		PASS
IEEE 802.11n_20	1	-24.670		PASS
	6	-26.420		PASS
	11	-24.330		PASS

Test Graphs





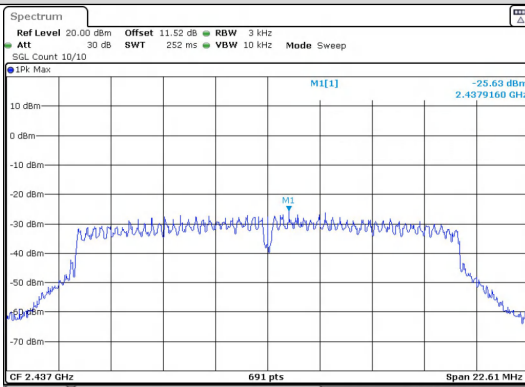
Date: 21.DEC.2024 15:30:55



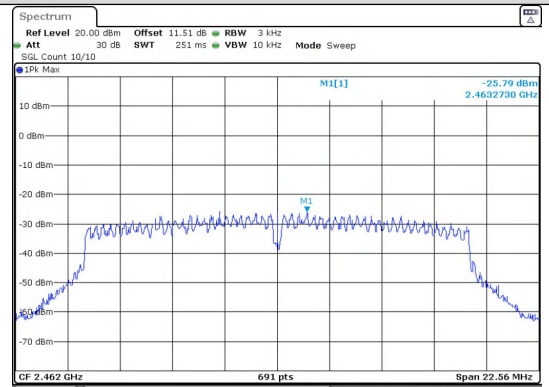
Date: 21.DEC.2024 15:34:57

IEEE 802.11b_Channel 11_20MHz_Antenna 0

IEEE 802.11g_Channel 1_20MHz_Antenna 0



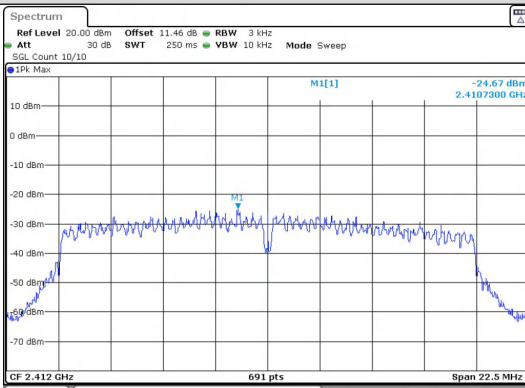
Date: 21.DEC.2024 15:37:33



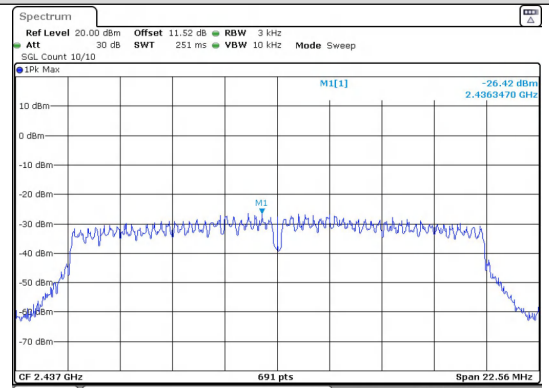
Date: 21.DEC.2024 15:41:26

IEEE 802.11g_Channel 6_20MHz_Antenna 0

IEEE 802.11g_Channel 11_20MHz_Antenna 0



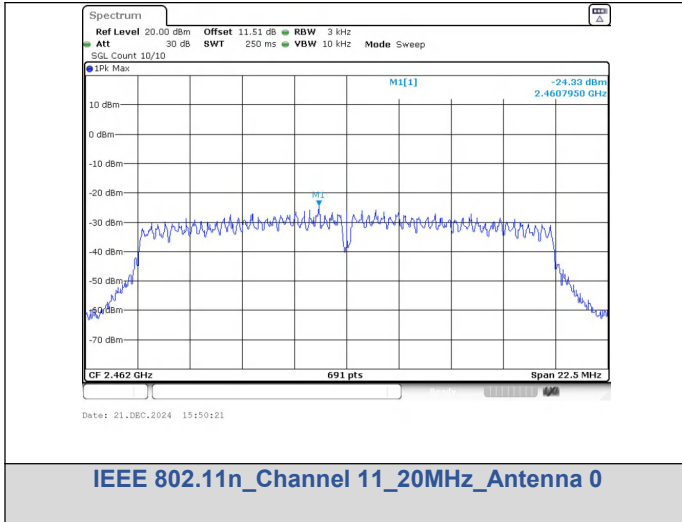
Date: 21.DEC.2024 15:44:49



Date: 21.DEC.2024 15:47:56

IEEE 802.11n_Channel 1_20MHz_Antenna 0

IEEE 802.11n_Channel 6_20MHz_Antenna 0



Conducted Output Power

Test Result

Conducted Output Power

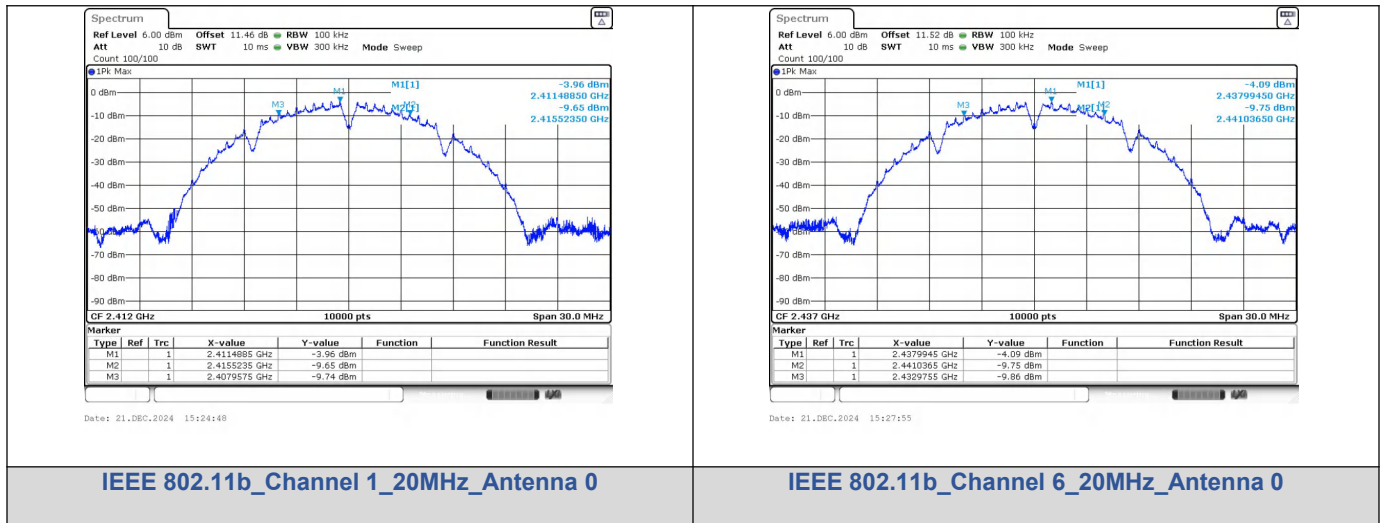
Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	8.16	≤30	PASS
	6	8.11	≤30	PASS
	11	8.35	≤30	PASS
IEEE 802.11g	1	8.60	≤30	PASS
	6	8.17	≤30	PASS
	11	8.97	≤30	PASS
IEEE 802.11n_20	1	8.27	≤30	PASS
	6	8.11	≤30	PASS
	11	8.72	≤30	PASS

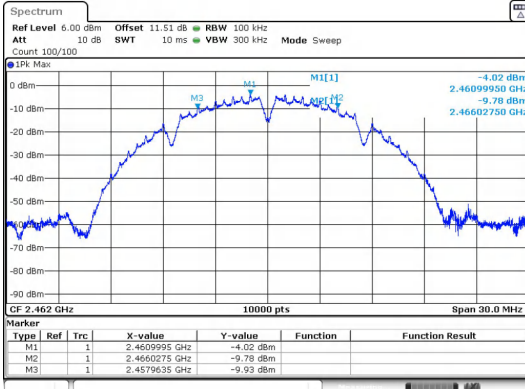
6dB Bandwidth

Test Result

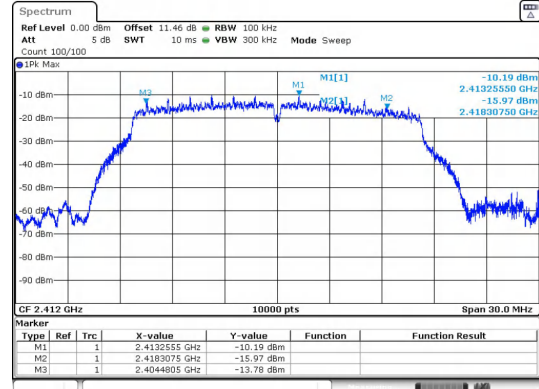
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	7.560	≥0.5	PASS
	6		2437	8.060		PASS
	11		2462	8.070		PASS
IEEE 802.11g	1		2412	13.83		PASS
	6		2437	15.07		PASS
	11		2462	15.04		PASS
IEEE 802.11n_20	1		2412	15.00		PASS
	6		2437	15.04		PASS
	11		2462	15.00		PASS

Test Graphs



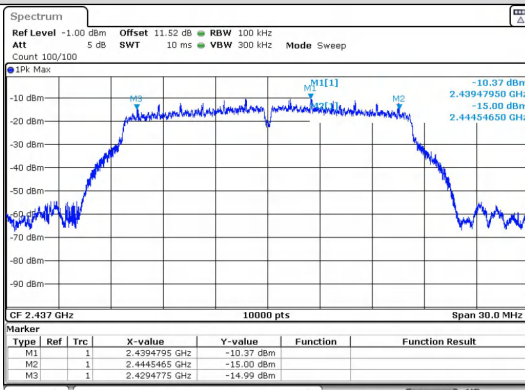


Date: 21.DEC.2024 15:30:19

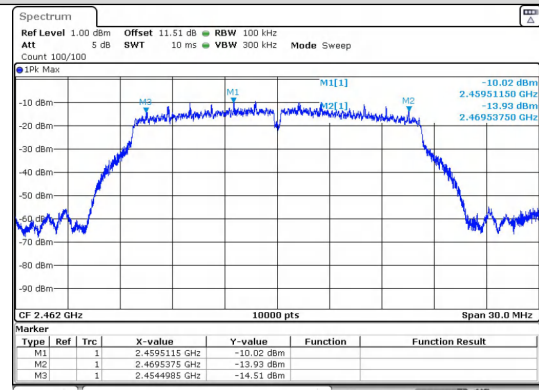


Date: 21.DEC.2024 15:34:20

IEEE 802.11b_Channel 11_20MHz_Antenna 0

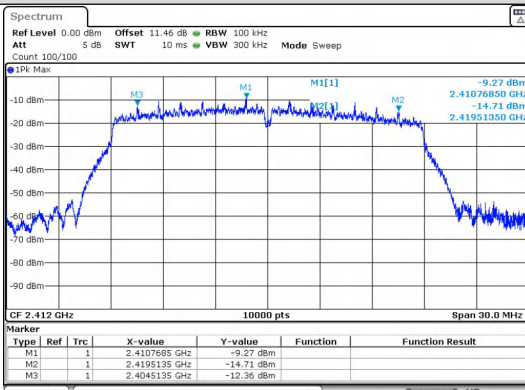


Date: 21.DEC.2024 15:36:56

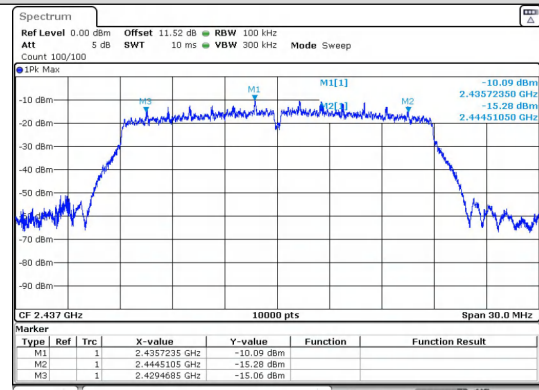


Date: 21.DEC.2024 15:40:49

IEEE 802.11g_Channel 6_20MHz_Antenna 0



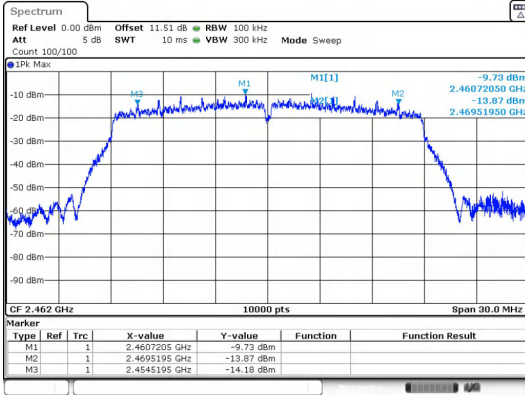
Date: 21.DEC.2024 15:44:12



Date: 21.DEC.2024 15:47:19

IEEE 802.11n_Channel 1_20MHz_Antenna 0

IEEE 802.11n_Channel 6_20MHz_Antenna 0



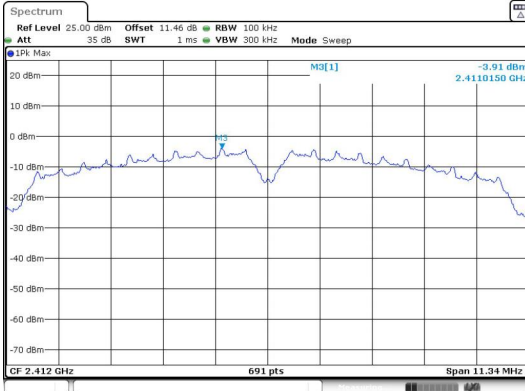
IEEE 802.11n_Channel 11_20MHz_Antenna 0

Conducted Out Of Band Emission

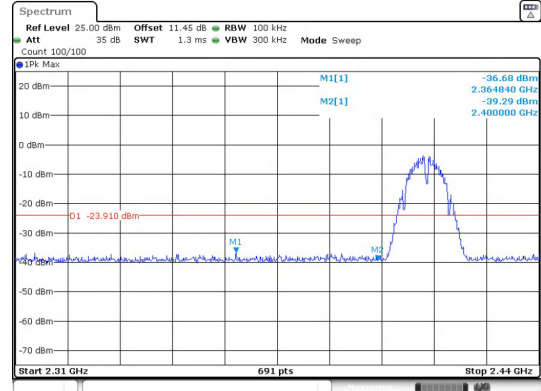
Test Result

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2364.84	-36.683	-23.91	-12.773	PASS
			2400.00	-39.290	-23.91	-15.380	PASS
			6946.30	-43.160	-23.91	-19.250	PASS
	6		6553.41	-42.862	-24.08	-18.782	PASS
	11		2483.50	-37.490	-24.01	-13.480	PASS
			6917.14	-43.286	-24.01	-19.276	PASS
IEEE 802.11g	1		2376.13	-36.574	-30.09	-6.484	PASS
			2400.00	-39.150	-30.09	-9.060	PASS
			6932.10	-43.333	-30.09	-13.243	PASS
	6		6975.41	-42.536	-30.78	-11.756	PASS
	11		2483.50	-38.050	-29.56	-8.490	PASS
			21967.4	-43.362	-29.56	-13.802	PASS
IEEE 802.11n_20	1		2386.10	-37.001	-30.16	-6.841	PASS
			2400.00	-38.630	-30.16	-8.470	PASS
			6814.80	-42.708	-30.16	-12.548	PASS
	6		6893.00	-43.571	-30.22	-13.351	PASS
	11		2483.50	-37.810	-29.91	-7.900	PASS
			6817.26	-42.593	-29.91	-12.683	PASS

Test Graphs



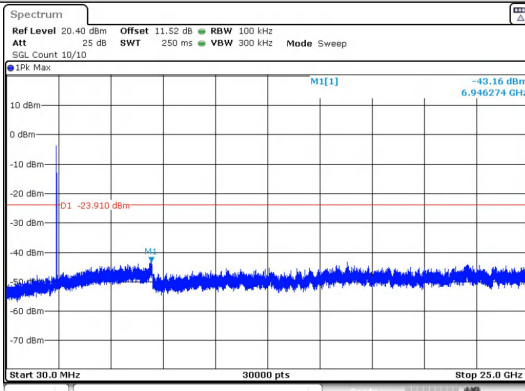
Date: 21.DEC.2024 15:25:40



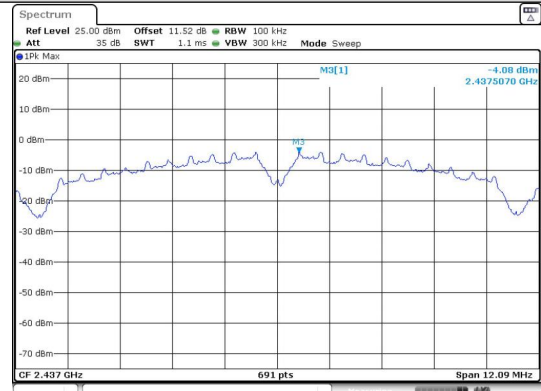
Date: 21.DEC.2024 15:26:00

**In-Band Reference Level
IEEE 802.11b_Channel 1_20MHz_Antenna 0**

**Out Of Band Emission
IEEE 802.11b_Channel 1_20MHz_Antenna 0**



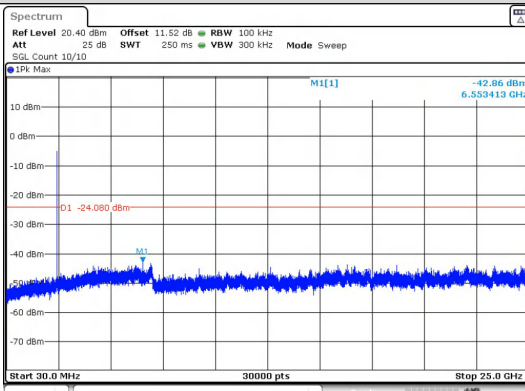
Date: 21.DEC.2024 15:26:22



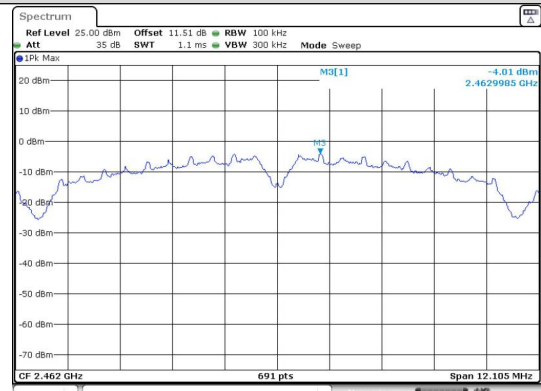
Date: 21.DEC.2024 15:28:47

**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**



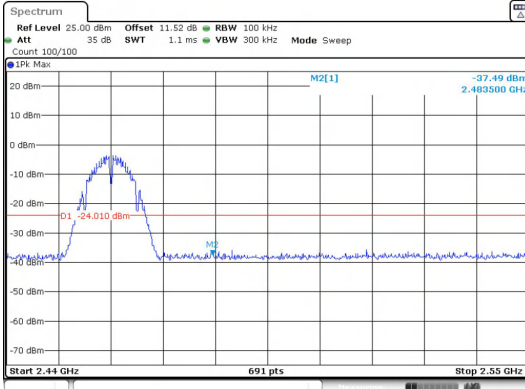
Date: 21.DEC.2024 15:29:12



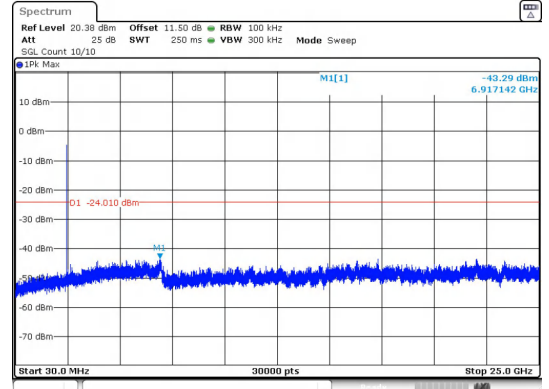
Date: 21.DEC.2024 15:31:11

**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**



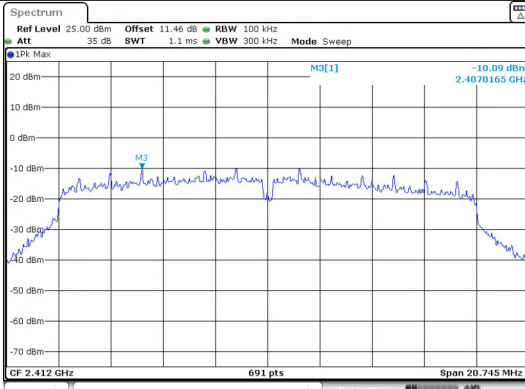
Date: 21.DEC.2024 15:31:30



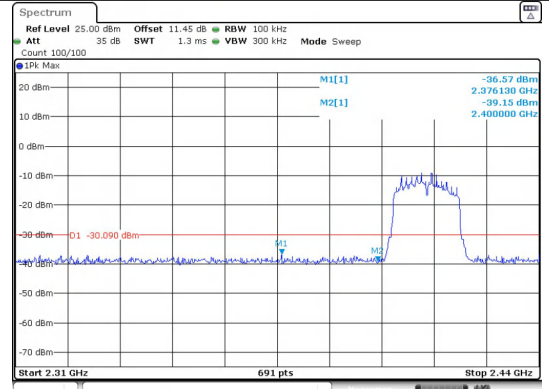
Date: 21.DEC.2024 15:31:53

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



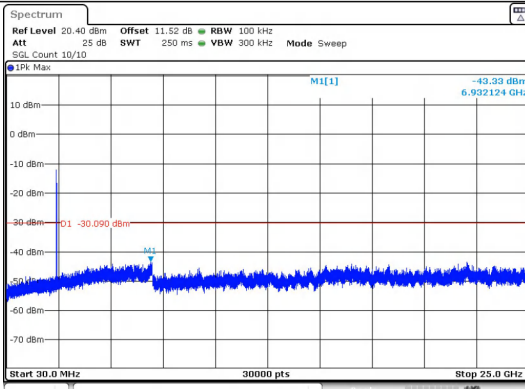
Date: 21.DEC.2024 15:35:14



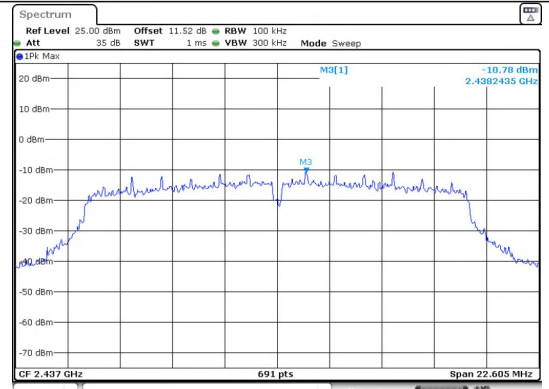
Date: 21.DEC.2024 15:35:33

In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0

Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



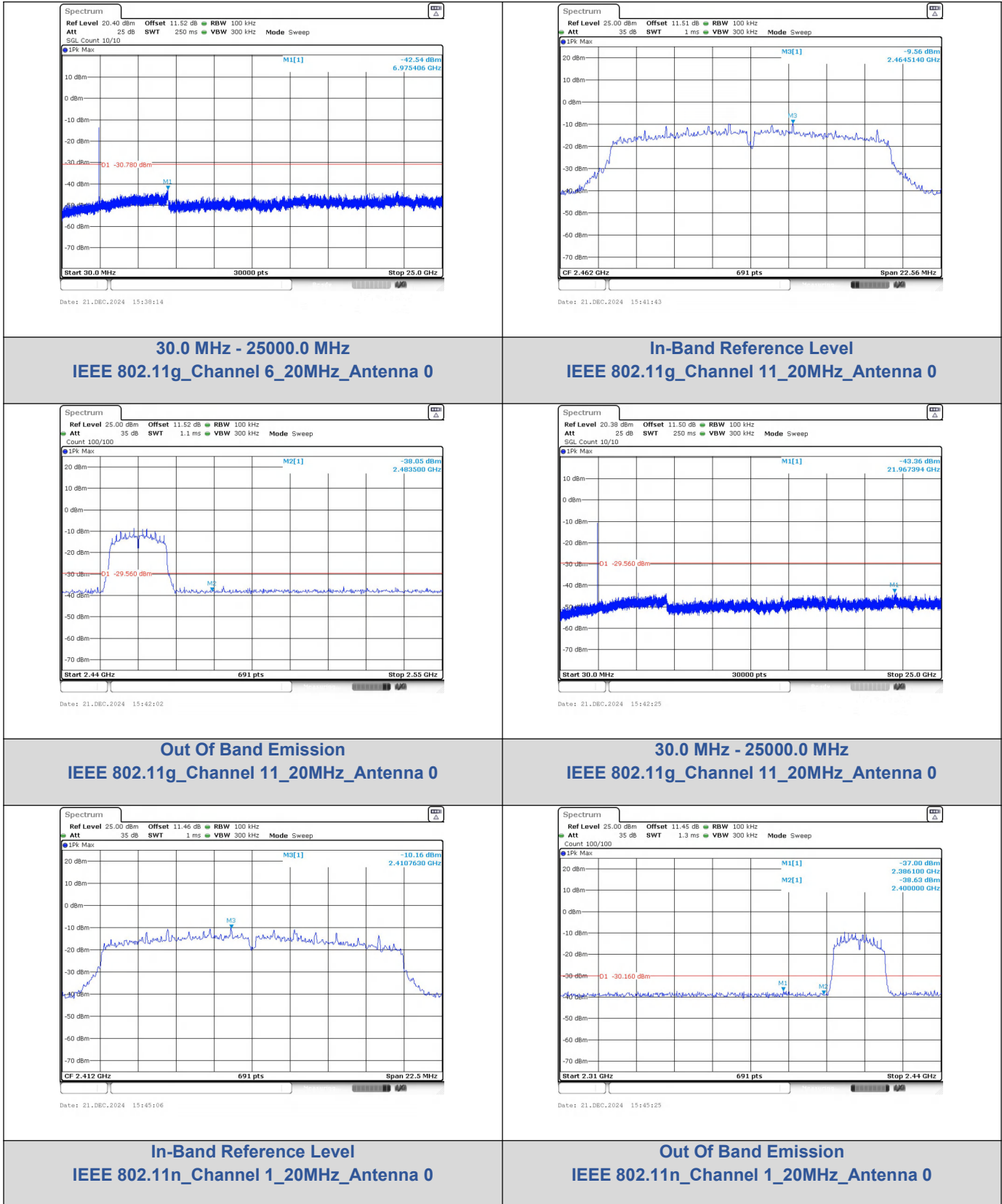
Date: 21.DEC.2024 15:35:55

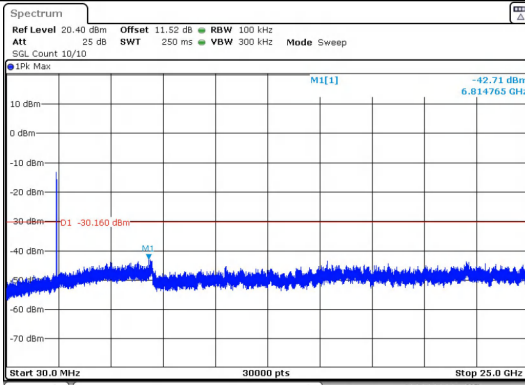


Date: 21.DEC.2024 15:37:50

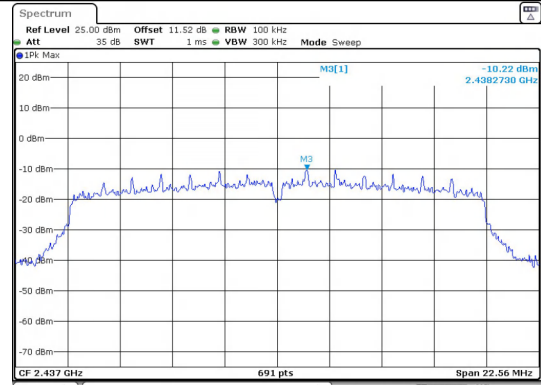
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 1_20MHz_Antenna 0

In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0





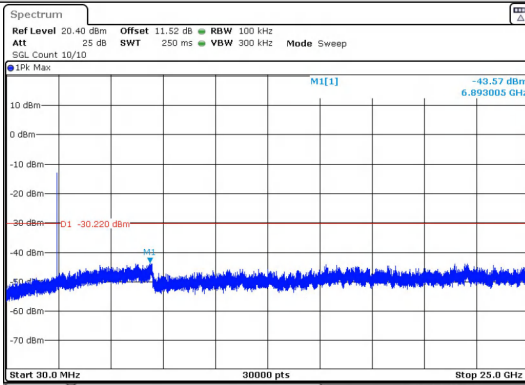
Date: 21.DEC.2024 15:45:48



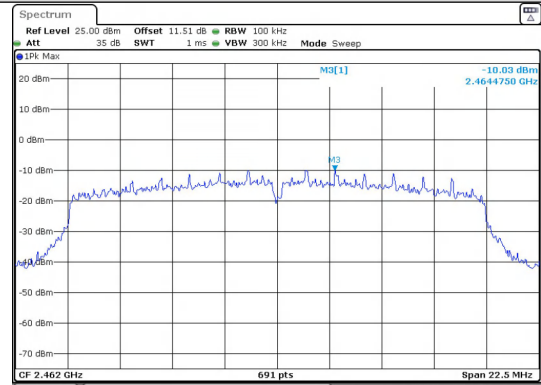
Date: 21.DEC.2024 15:48:13

30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 1_20MHz_Antenna 0

In-Band Reference Level
IEEE 802.11n_Channel 6_20MHz_Antenna 0



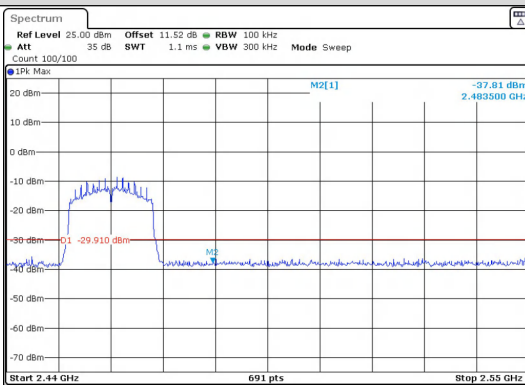
Date: 21.DEC.2024 15:48:37



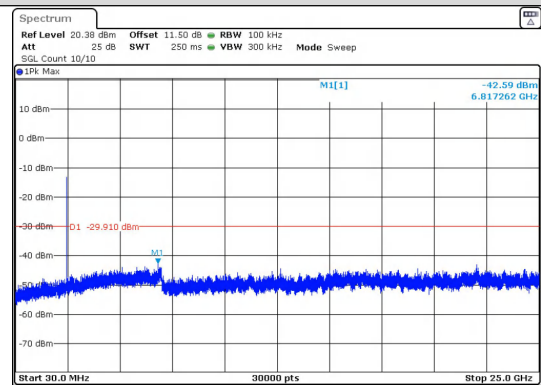
Date: 21.DEC.2024 15:50:37

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



Date: 21.DEC.2024 15:50:57



Date: 21.DEC.2024 15:51:19

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

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