

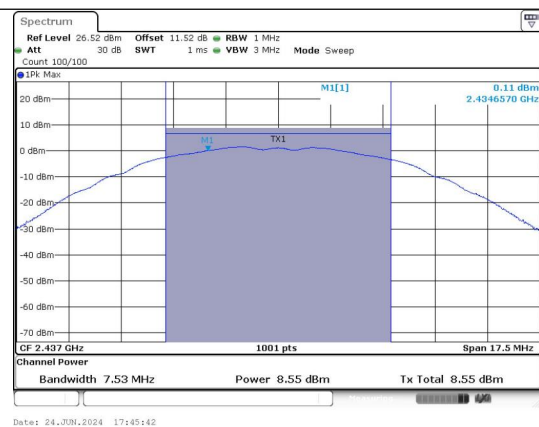
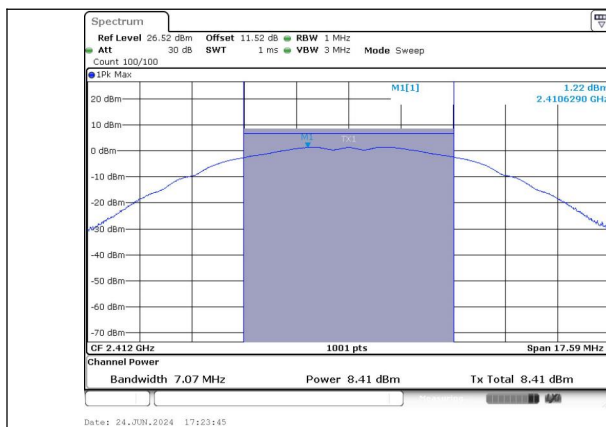
Appendix A

Report No.:	CISRR240618139
FCC ID:	2BG6J-AC107W
Product Name:	Intelligent Visual Comb
Model No.:	AC107W
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

Conducted Peak Output Power

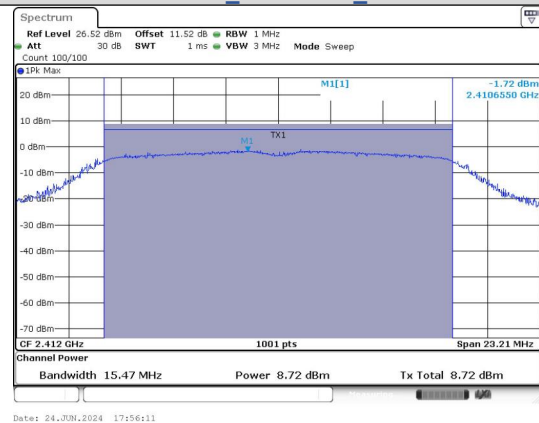
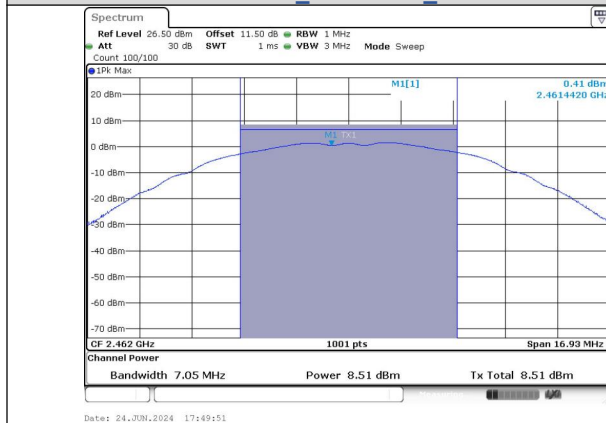
Test Result

Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	8.41	30	PASS
	6	8.55	30	PASS
	11	8.50	30	PASS
IEEE 802.11g	1	8.69	30	PASS
	6	8.64	30	PASS
	11	8.83	30	PASS
IEEE 802.11n_20	1	8.78	30	PASS
	6	8.22	30	PASS
	11	8.78	30	PASS



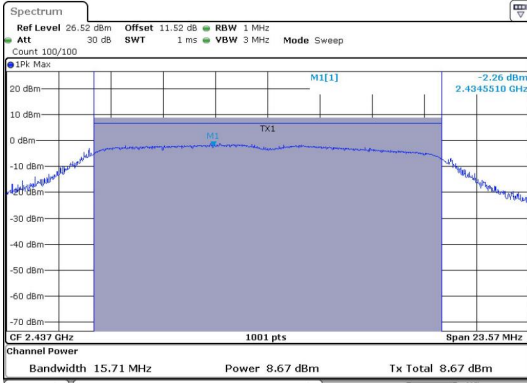
Conducted Output Power IEEE 802.11b_Channel 1_Antenna 0

Conducted Output Power IEEE 802.11b_Channel 6_Antenna 0

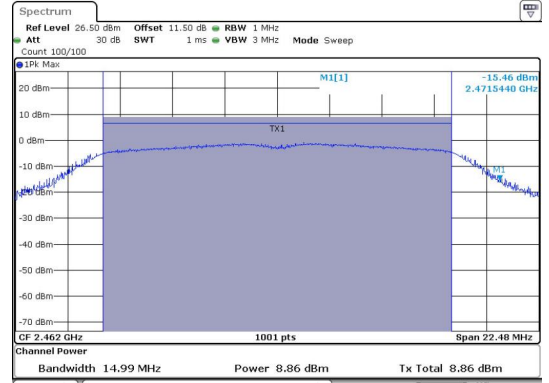


Conducted Output Power IEEE 802.11b_Channel 11_Antenna 0

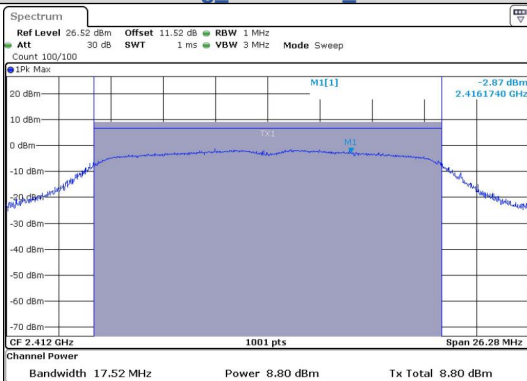
Conducted Output Power IEEE 802.11g_Channel 1_Antenna 0



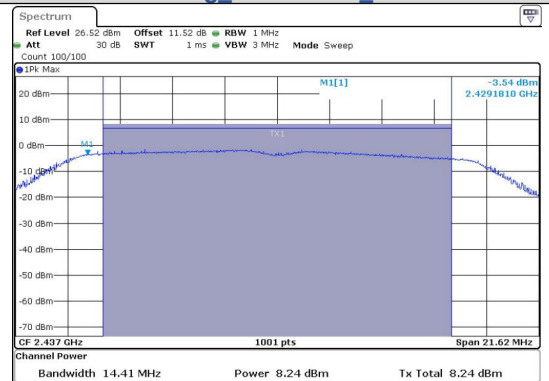
**Conducted Output Power
IEEE 802.11g_Channel 6_Antenna 0**



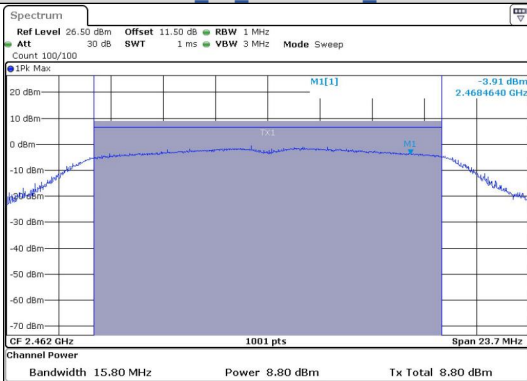
**Conducted Output Power
IEEE 802.11g_Channel 11_Antenna 0**



**Conducted Output Power
IEEE 802.11n_20_Channel 1_Antenna 0**



**Conducted Output Power
IEEE 802.11n_20_Channel 6_Antenna 0**



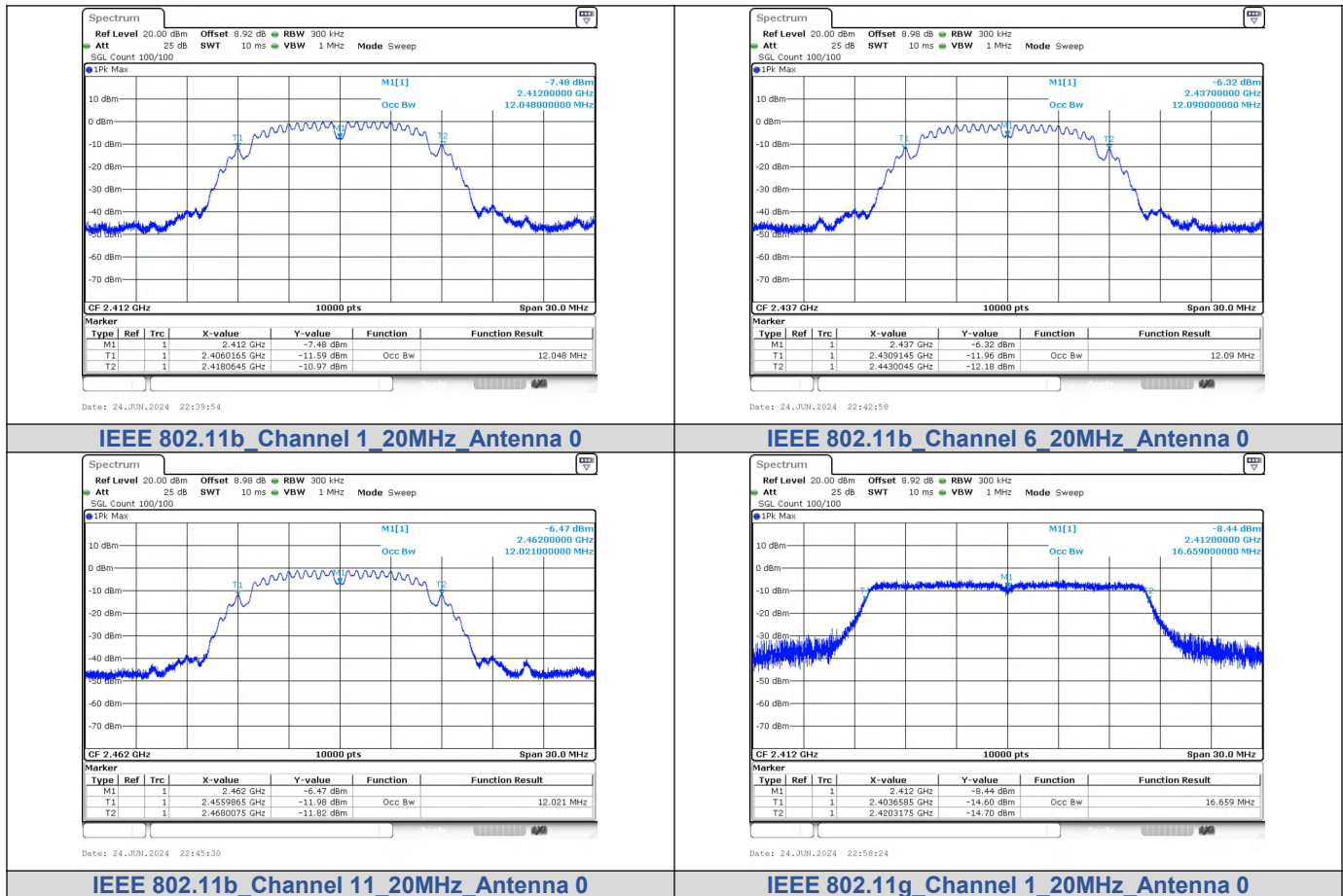
**Conducted Output Power
IEEE 802.11n_20_Channel 11_Antenna 0**

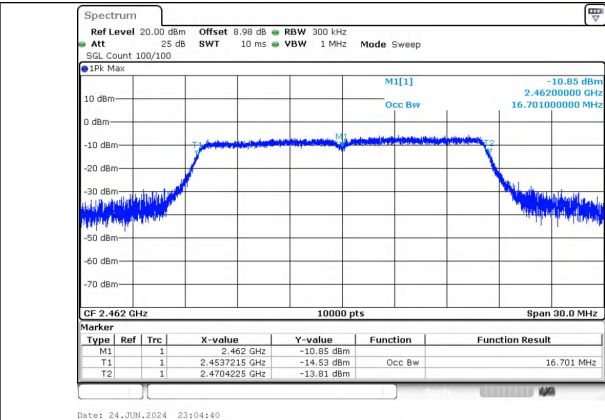
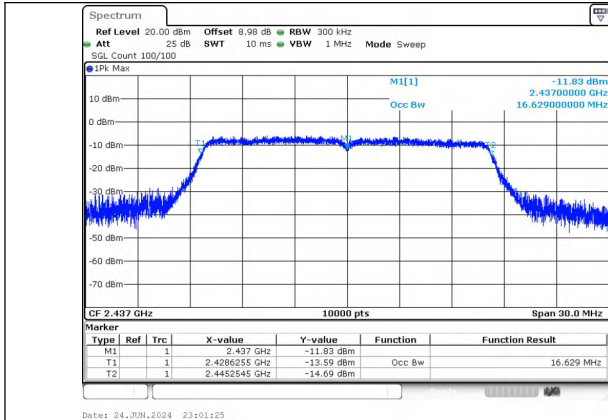
99% Bandwidth

Test Result

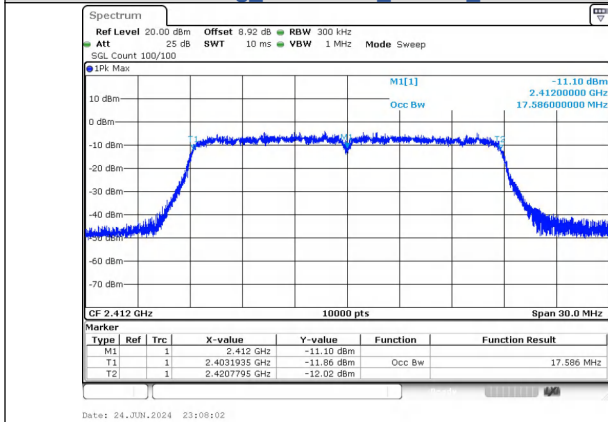
Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11b	1	0	2412	12.050
	6		2437	12.090
	11		2462	12.020
IEEE 802.11g	1		2412	16.660
	6		2437	16.630
	11		2462	16.700
IEEE 802.11n_20	1		2412	17.590
	6		2437	17.560
	11		2462	17.600

Test Graphs

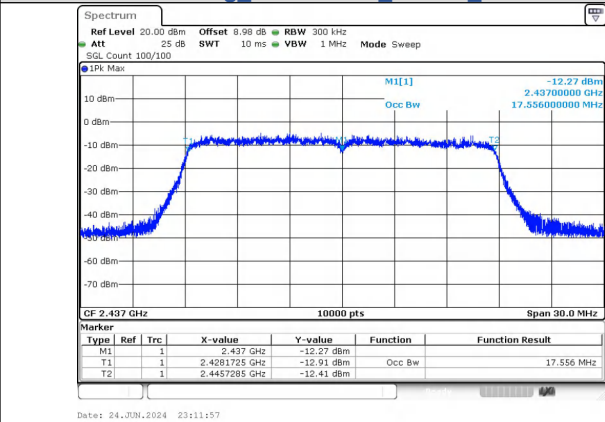




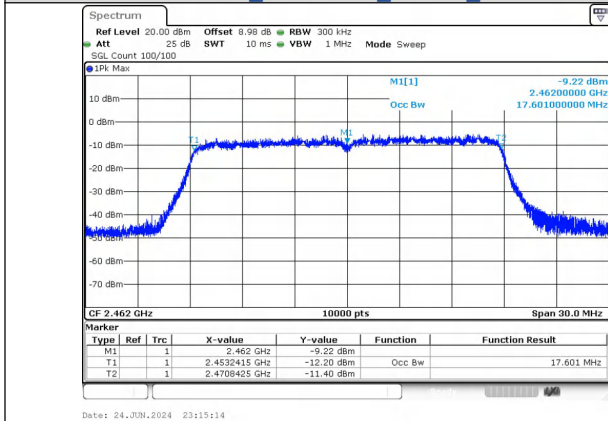
IEEE 802.11g_Channel 6_20MHz_Antenna 0



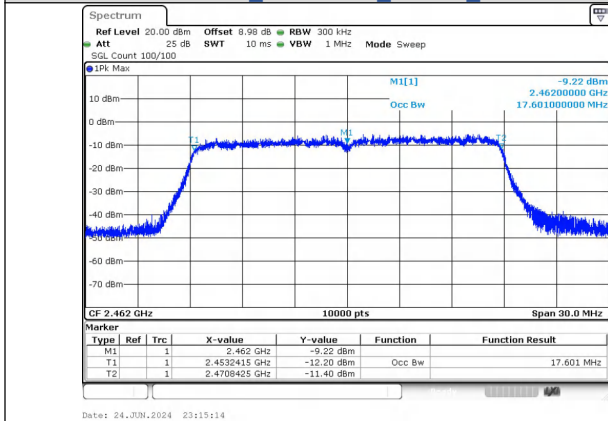
IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0



IEEE 802.11n_Channel 6_20MHz_Antenna 0



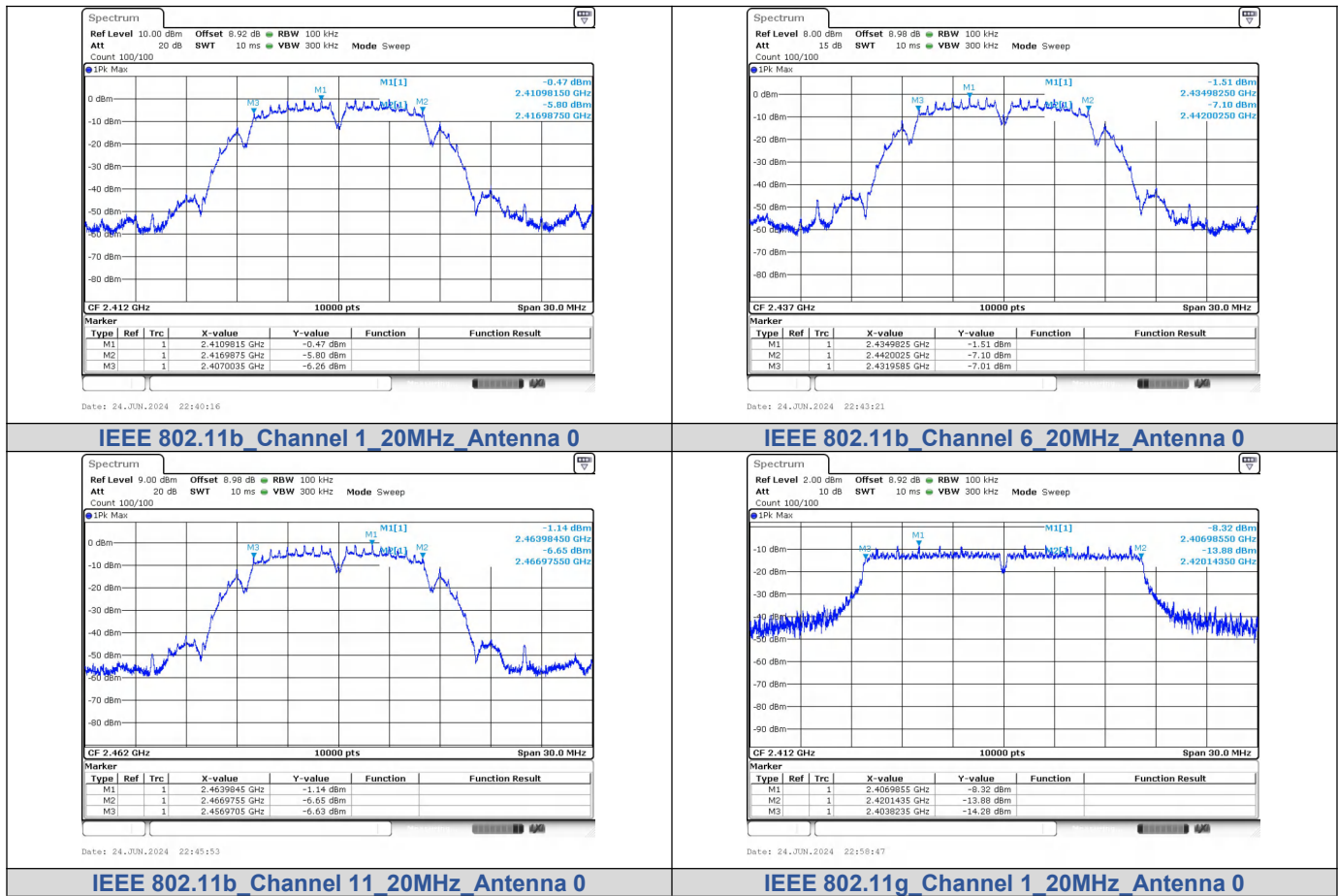
IEEE 802.11n_Channel 11_20MHz_Antenna 0

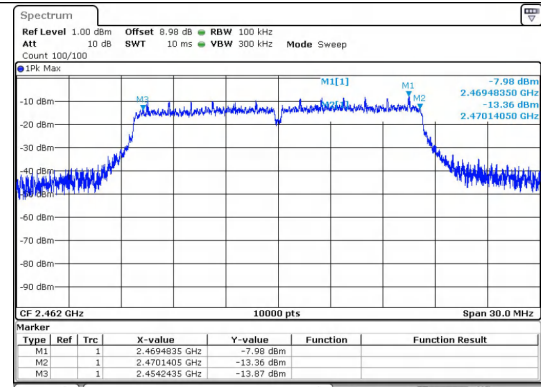
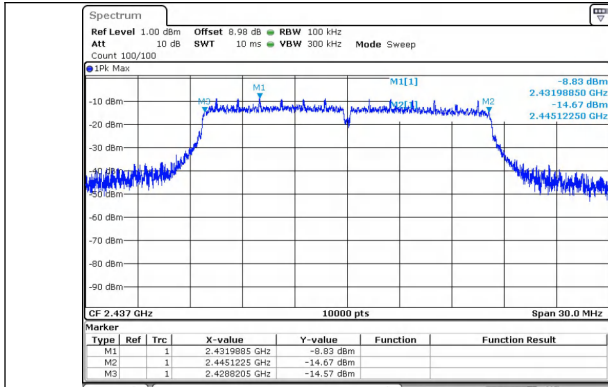
6dB Bandwidth

Test Result

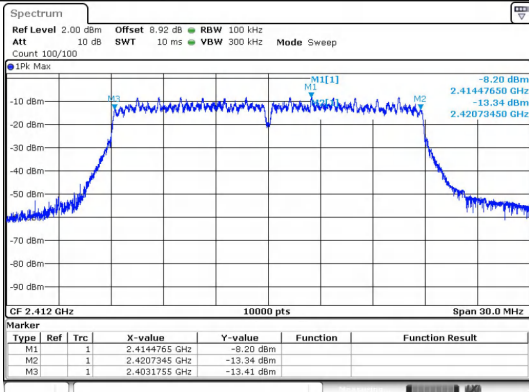
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	9.990	≥0.5	PASS
	6		2437	10.04		PASS
	11		2462	10.01		PASS
IEEE 802.11g	1		2412	16.32		PASS
	6		2437	16.30		PASS
	11		2462	15.90		PASS
IEEE 802.11n_20	1		2412	17.55		PASS
	6		2437	17.30		PASS
	11		2462	17.26		PASS

Test Graphs

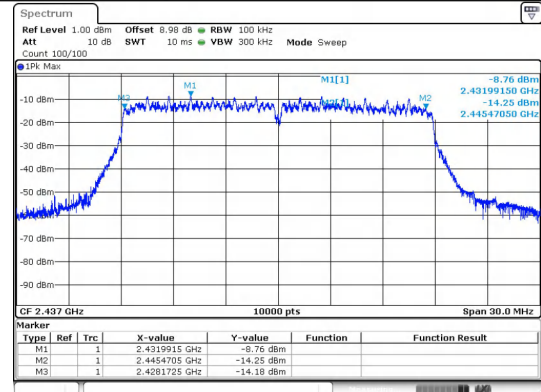




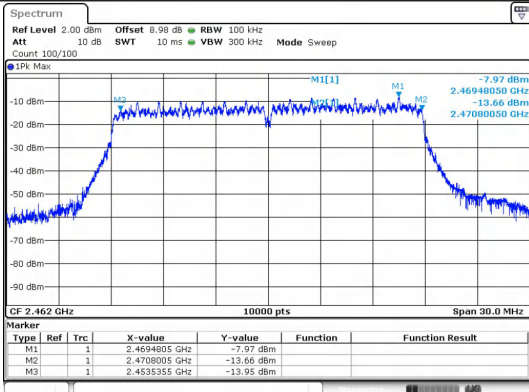
IEEE 802.11g_Channel 6_20MHz_Antenna 0



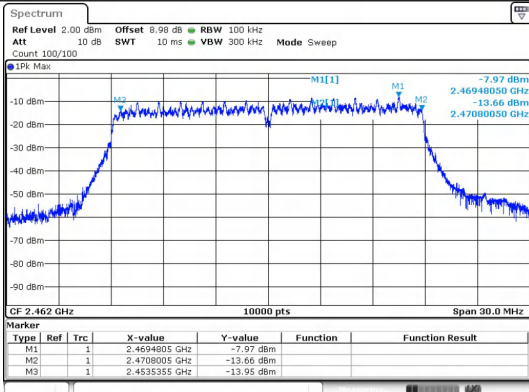
IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0



IEEE 802.11n_Channel 6_20MHz_Antenna 0



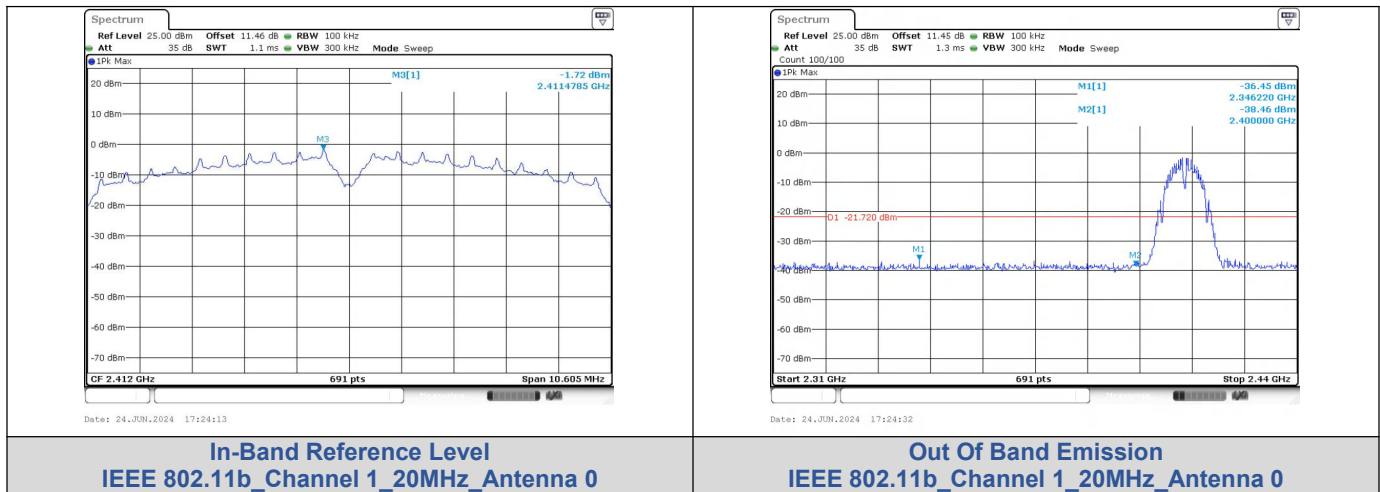
IEEE 802.11n_Channel 11_20MHz_Antenna 0

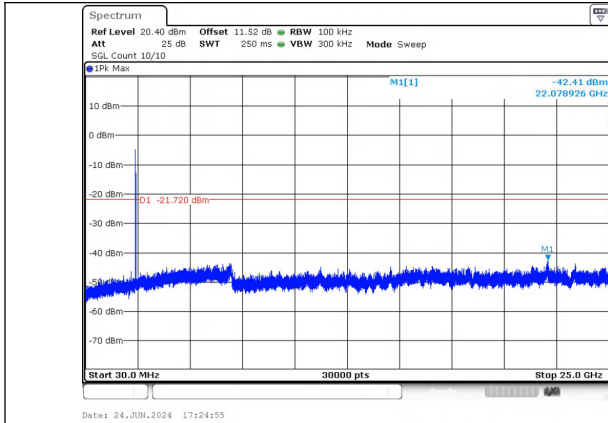
Conducted Out Of Band Emission

Test Result

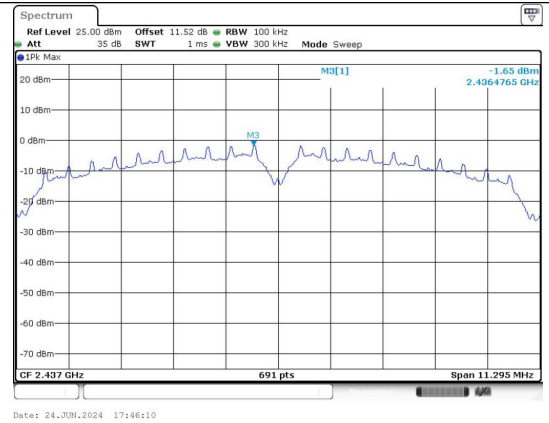
Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2346.22	-36.450	-21.72	-14.730	PASS
			2400.00	-38.464	-21.72	-16.744	PASS
	22078.9		-42.413	-21.72	-20.693	PASS	
	6		4988.63	-43.338	-21.65	-21.688	PASS
	11		2483.50	-39.395	-21.79	-17.605	PASS
			6968.75	-42.287	-21.79	-20.497	PASS
IEEE 802.11g	1		2398.70	-34.856	-30.28	-4.576	PASS
			2400.00	-36.569	-30.28	-6.289	PASS
	6		6947.10	-43.539	-30.28	-13.259	PASS
	11		6307.87	-42.875	-30.51	-12.365	PASS
			2483.50	-37.843	-29.84	-8.003	PASS
	6952.10		-43.427	-29.84	-13.587	PASS	
IEEE 802.11n_20	1		2400.00	-36.015	-31.21	-4.805	PASS
			6920.47	-42.530	-31.21	-11.320	PASS
	6		15416.9	-42.383	-30.11	-12.273	PASS
	11		2483.50	-37.477	-32.39	-5.087	PASS
			6891.34	-42.961	-32.39	-10.571	PASS

Test Graphs

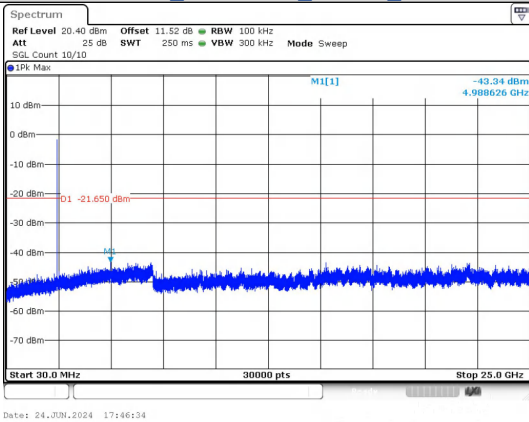




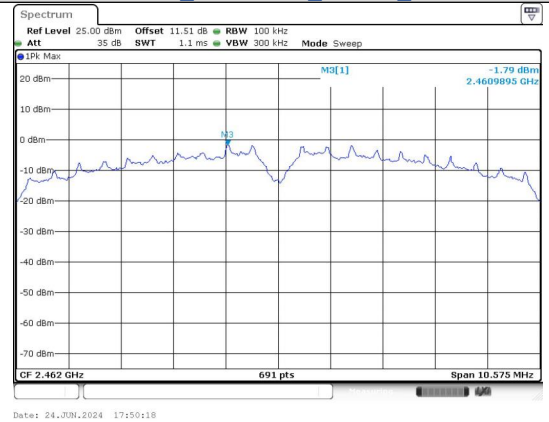
30.0 MHz - 25000.0 MHz
IEEE 802.11b Channel 1_20MHz_Antenna 0



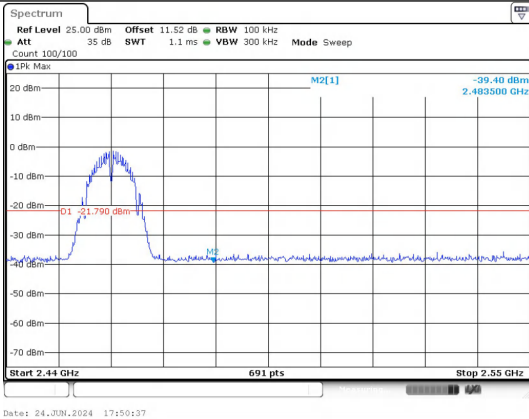
In-Band Reference Level
IEEE 802.11b Channel 6_20MHz_Antenna 0



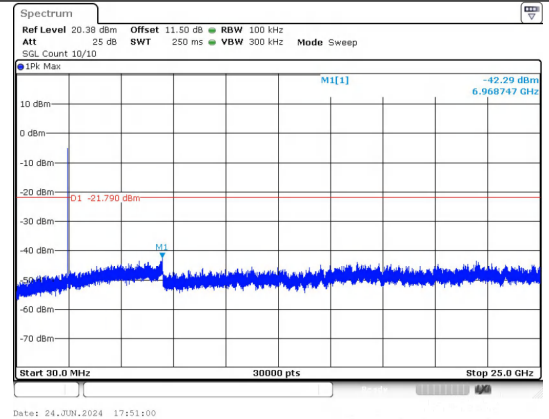
30.0 MHz - 25000.0 MHz
IEEE 802.11b Channel 6_20MHz_Antenna 0



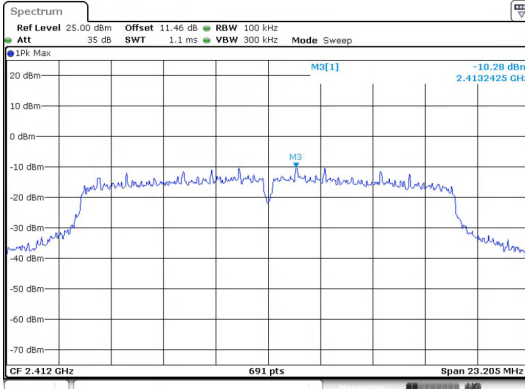
In-Band Reference Level
IEEE 802.11b Channel 11_20MHz_Antenna 0



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



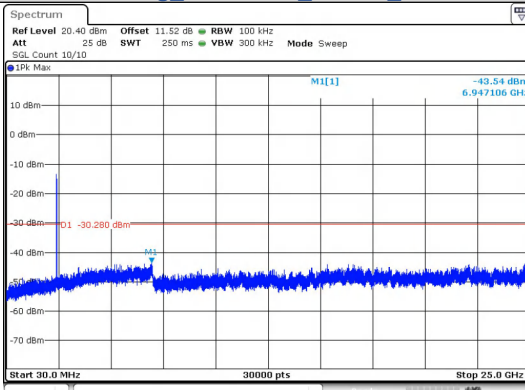
Date: 24.JUN.2024 17:56:41

In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0



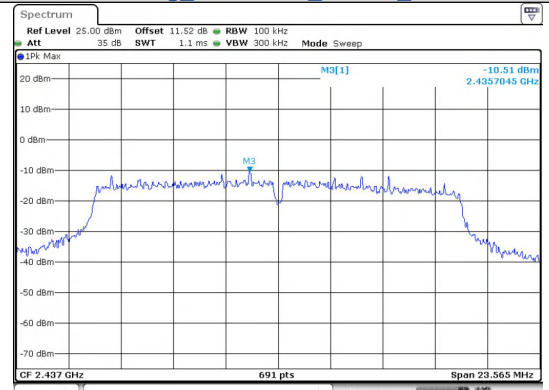
Date: 24.JUN.2024 17:57:00

Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



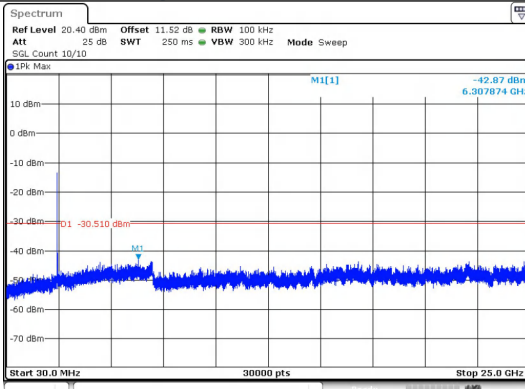
Date: 24.JUN.2024 17:57:23

30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 1_20MHz_Antenna 0



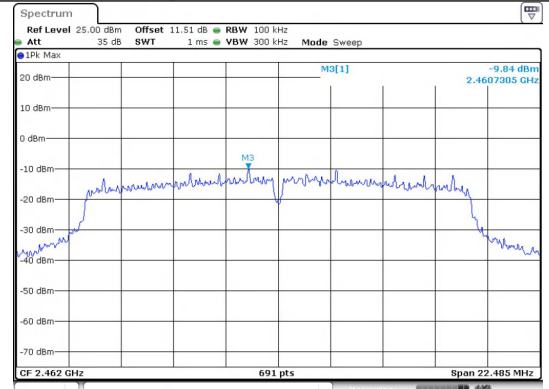
Date: 24.JUN.2024 18:00:55

In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0



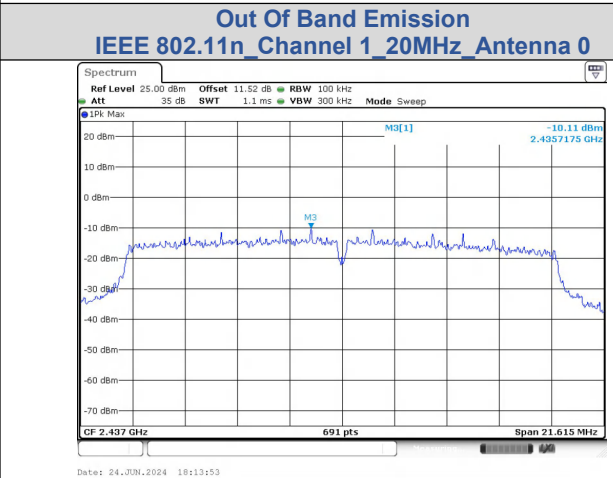
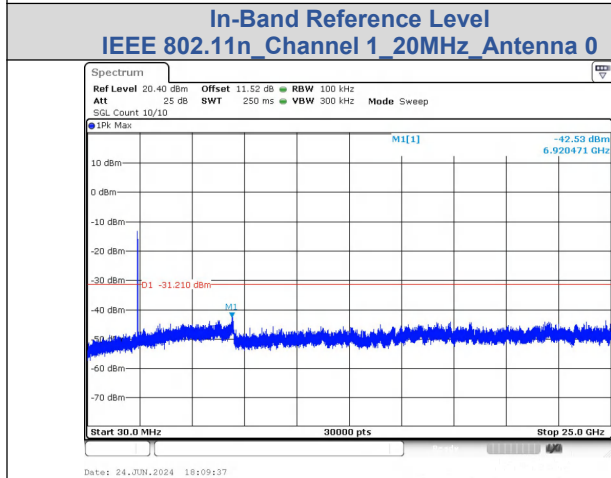
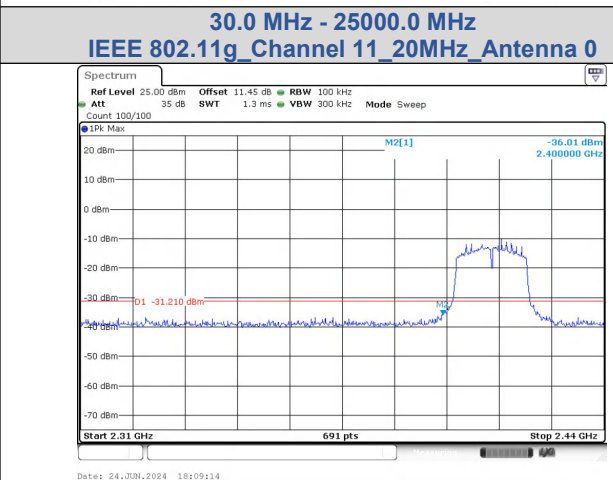
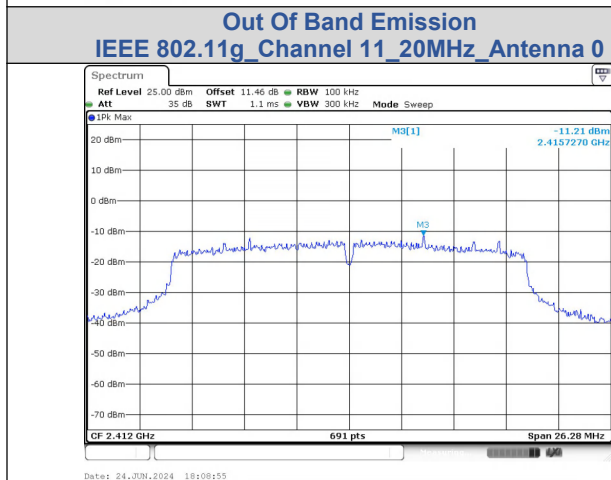
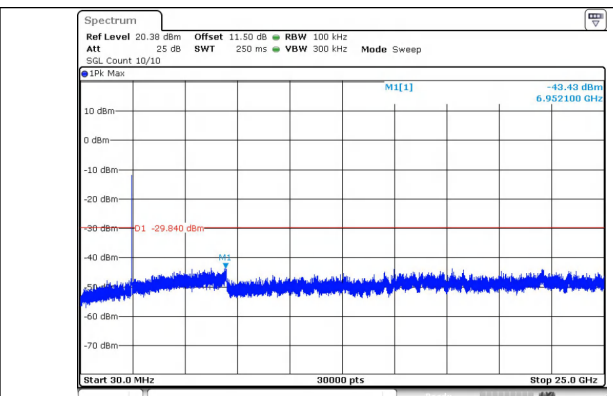
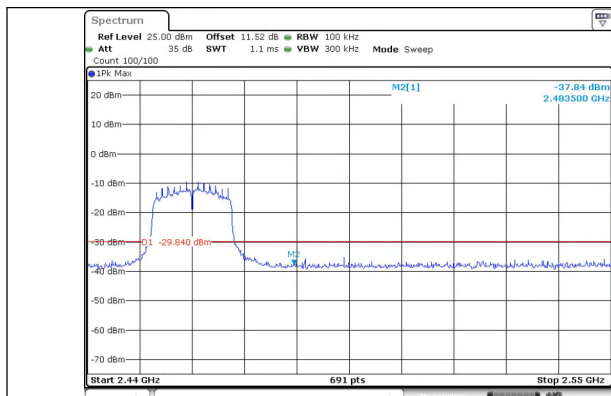
Date: 24.JUN.2024 18:01:20

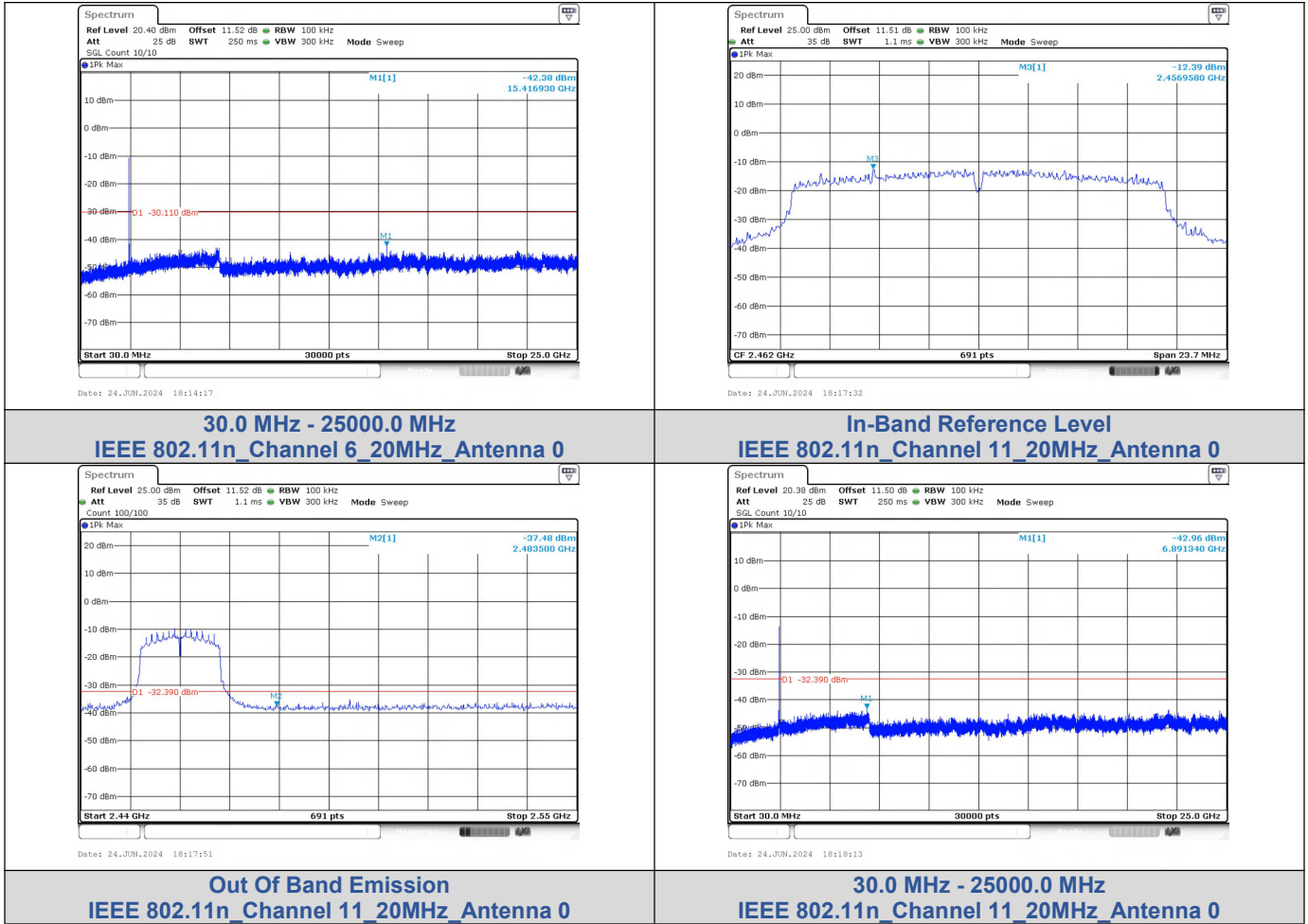
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 6_20MHz_Antenna 0



Date: 24.JUN.2024 18:05:31

In-Band Reference Level
IEEE 802.11g_Channel 11_20MHz_Antenna 0



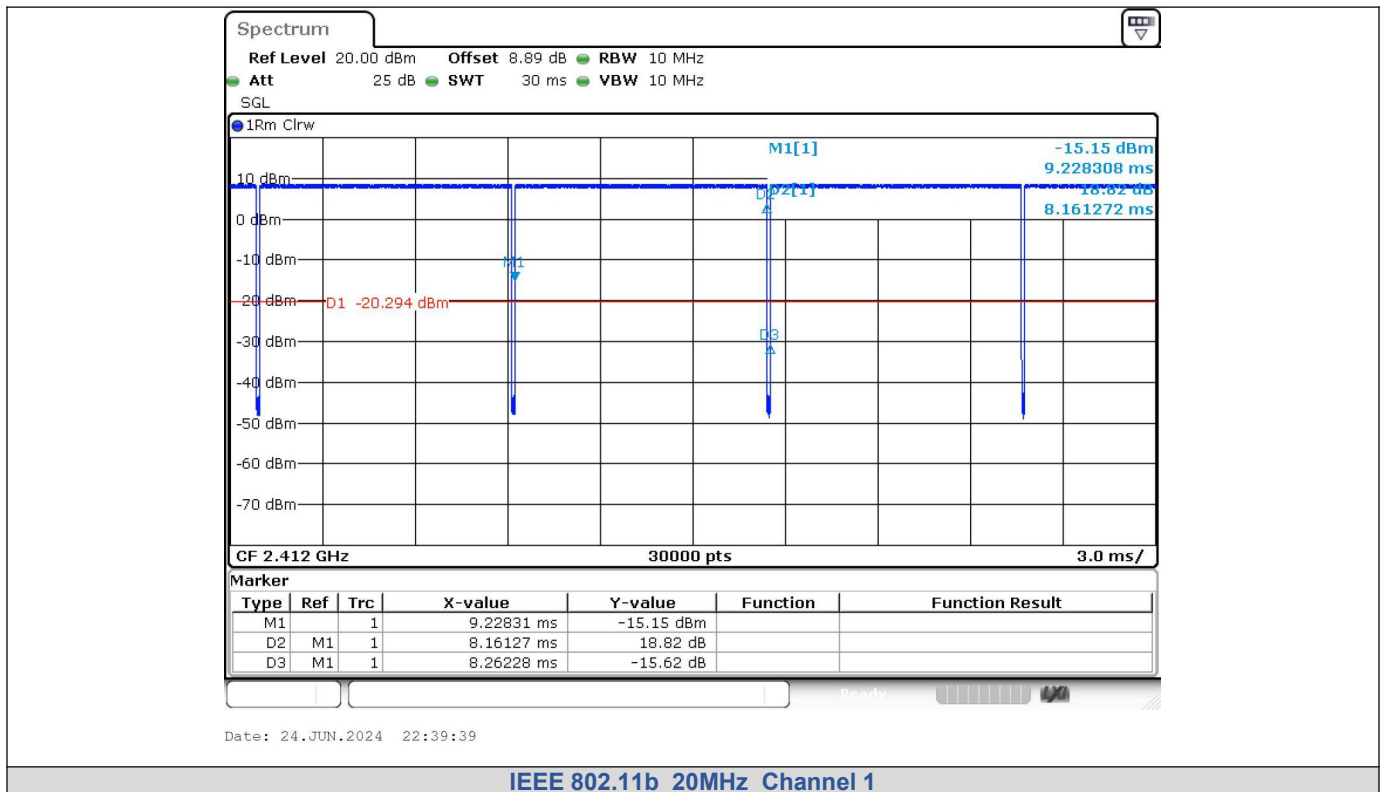


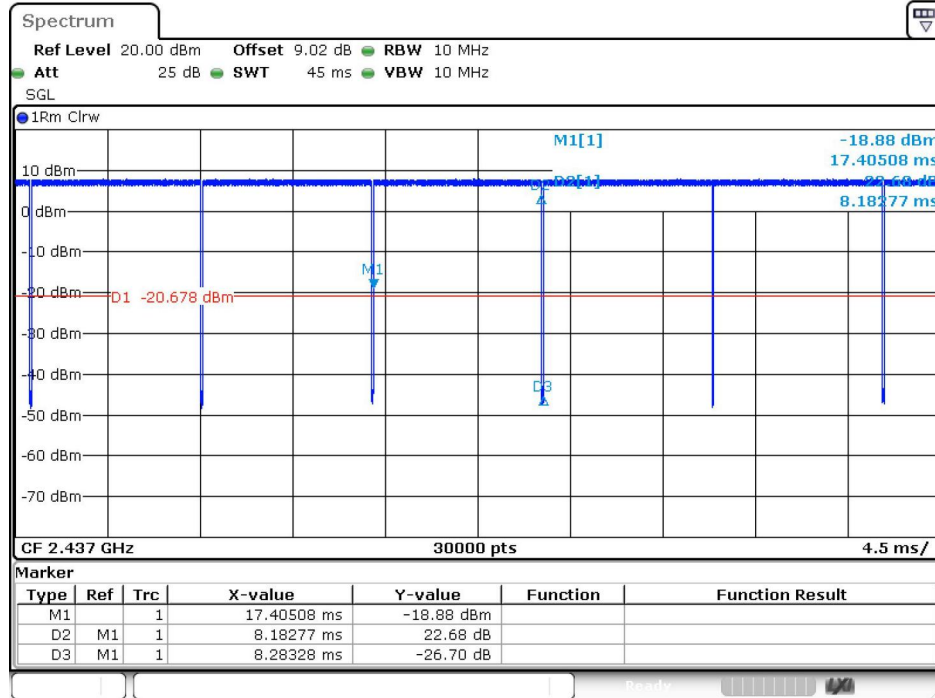
Duty Cycle

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	8.161	8.262	98.78	0.9878	0.0533	0.12
		6		8.183	8.283	98.79	0.9879	0.0529	0.12
		11		8.183	8.283	98.79	0.9879	0.0529	0.12
IEEE 802.11g		1		1.368	1.464	93.44	0.9344	0.2947	0.73
6		1.368		1.464	93.44	0.9344	0.2947	0.73	
11		1.368		1.464	93.44	0.9344	0.2947	0.73	
IEEE 802.11n_20	MCS 0	1		0.161	0.313	51.26	0.5126	2.9022	6.21
		6		0.161	0.313	51.26	0.5126	2.9022	6.21
		11		0.161	0.259	62.09	0.6209	2.0698	6.21

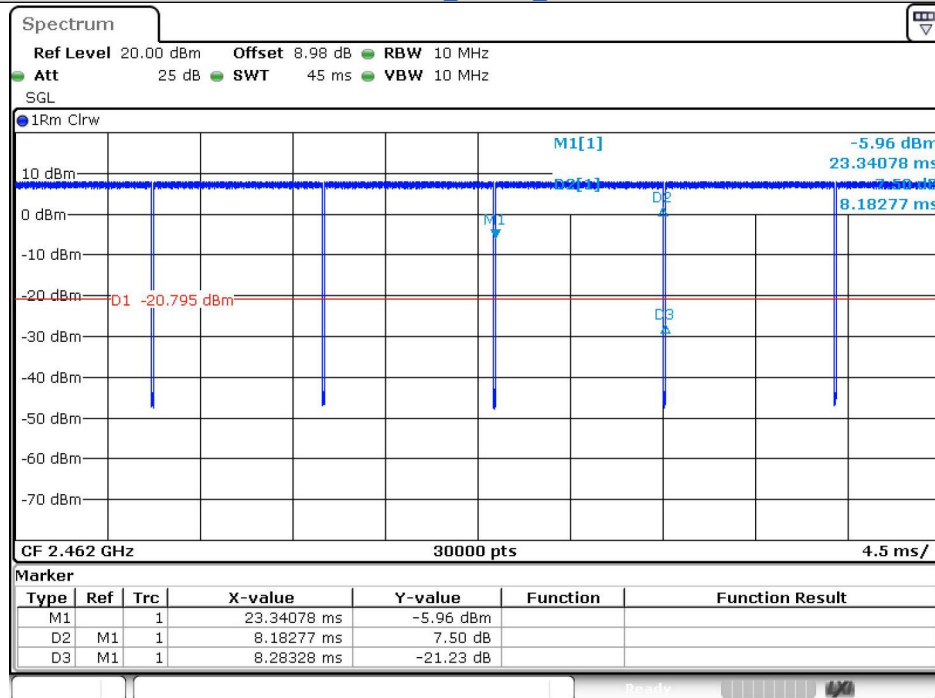
Test Graphs





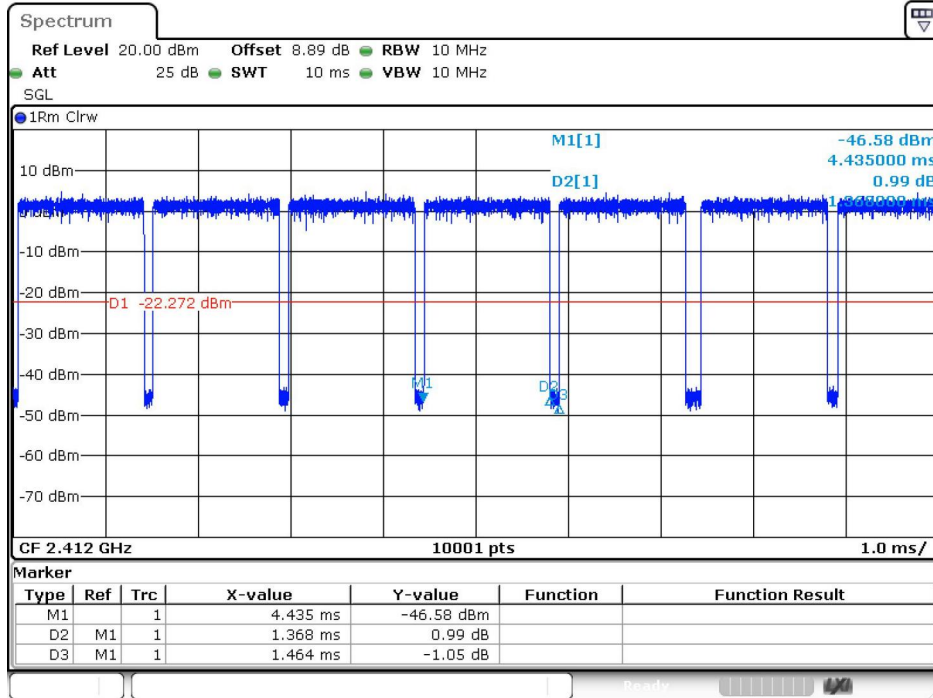
Date: 24.JUN.2024 22:42:44

IEEE 802.11b_20MHz_Channel 6



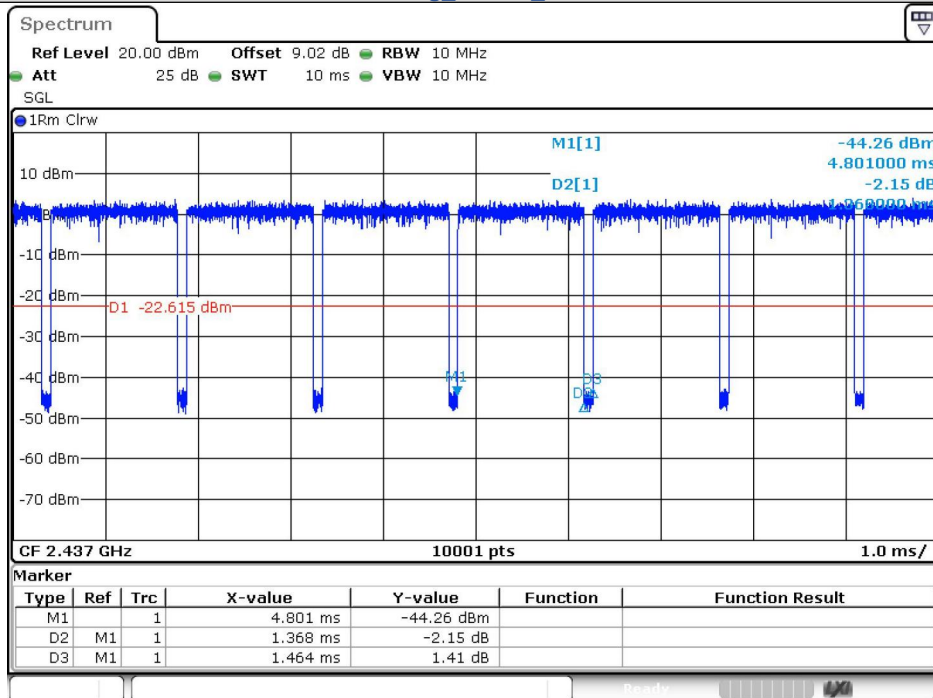
Date: 24.JUN.2024 22:45:16

IEEE 802.11b_20MHz_Channel 11



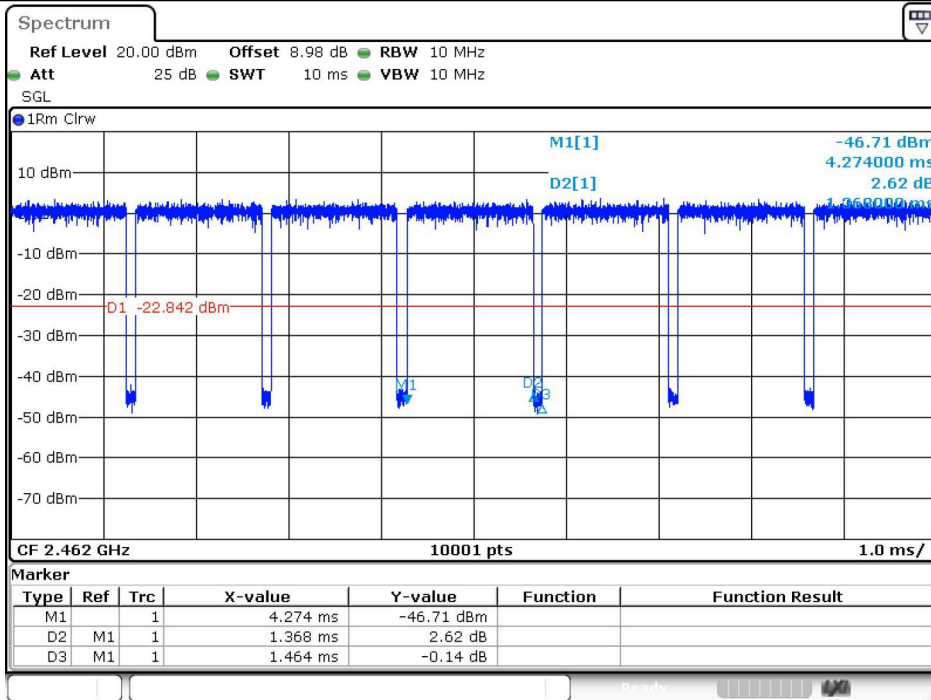
Date: 24.JUN.2024 22:58:10

IEEE 802.11g_20MHz_Channel 1



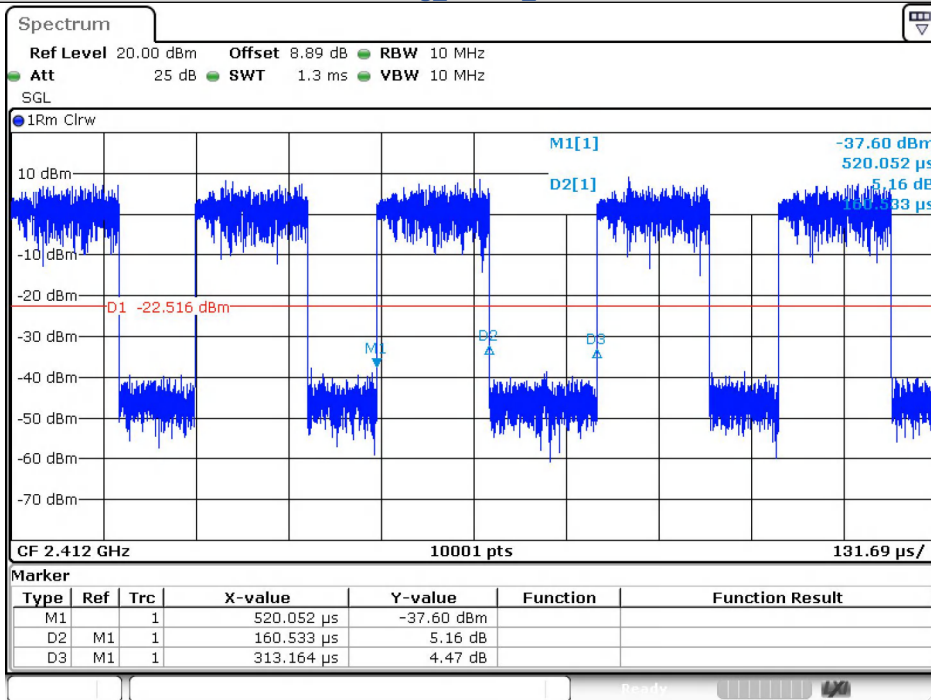
Date: 24.JUN.2024 23:01:10

IEEE 802.11g_20MHz_Channel 6



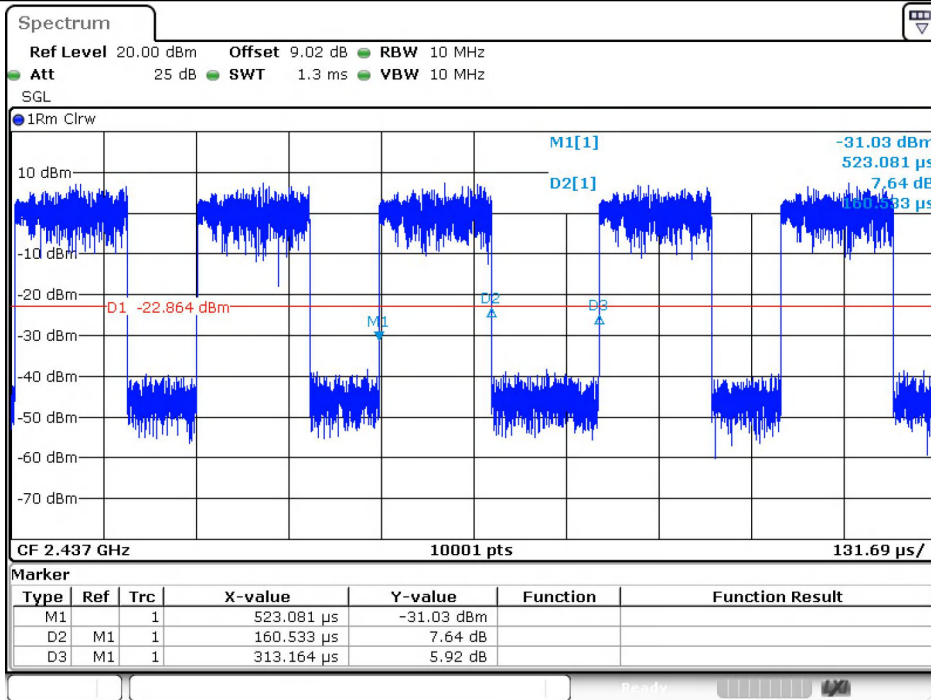
Date: 24.JUN.2024 23:04:26

IEEE 802.11g_20MHz_Channel 11



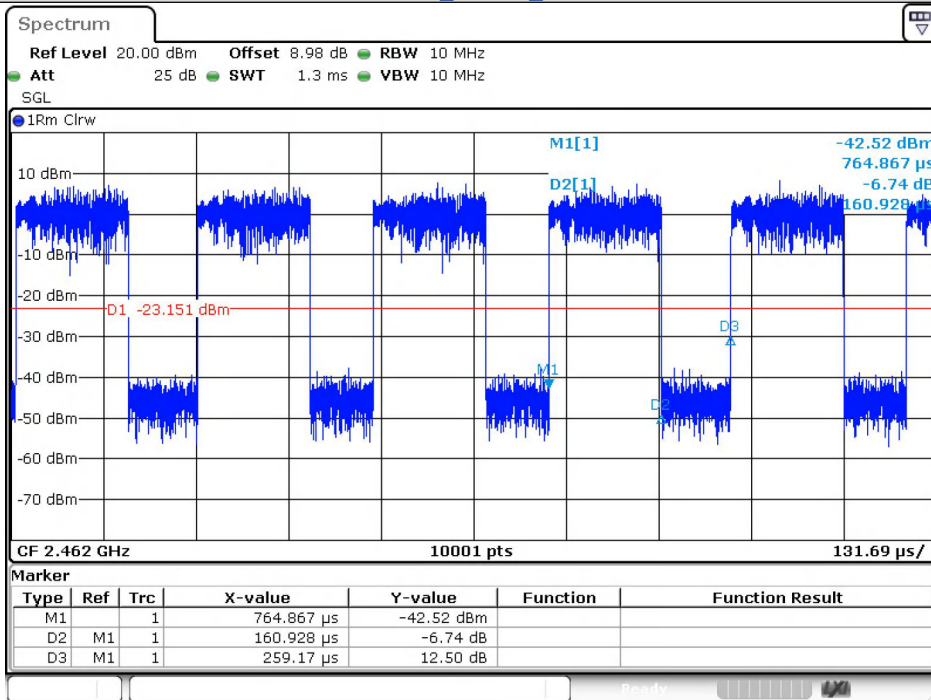
Date: 24.JUN.2024 23:07:44

IEEE 802.11n_20MHz_Channel 1



Date: 24.JUN.2024 23:11:38

IEEE 802.11n_20MHz_Channel 6



Date: 24.JUN.2024 23:14:56

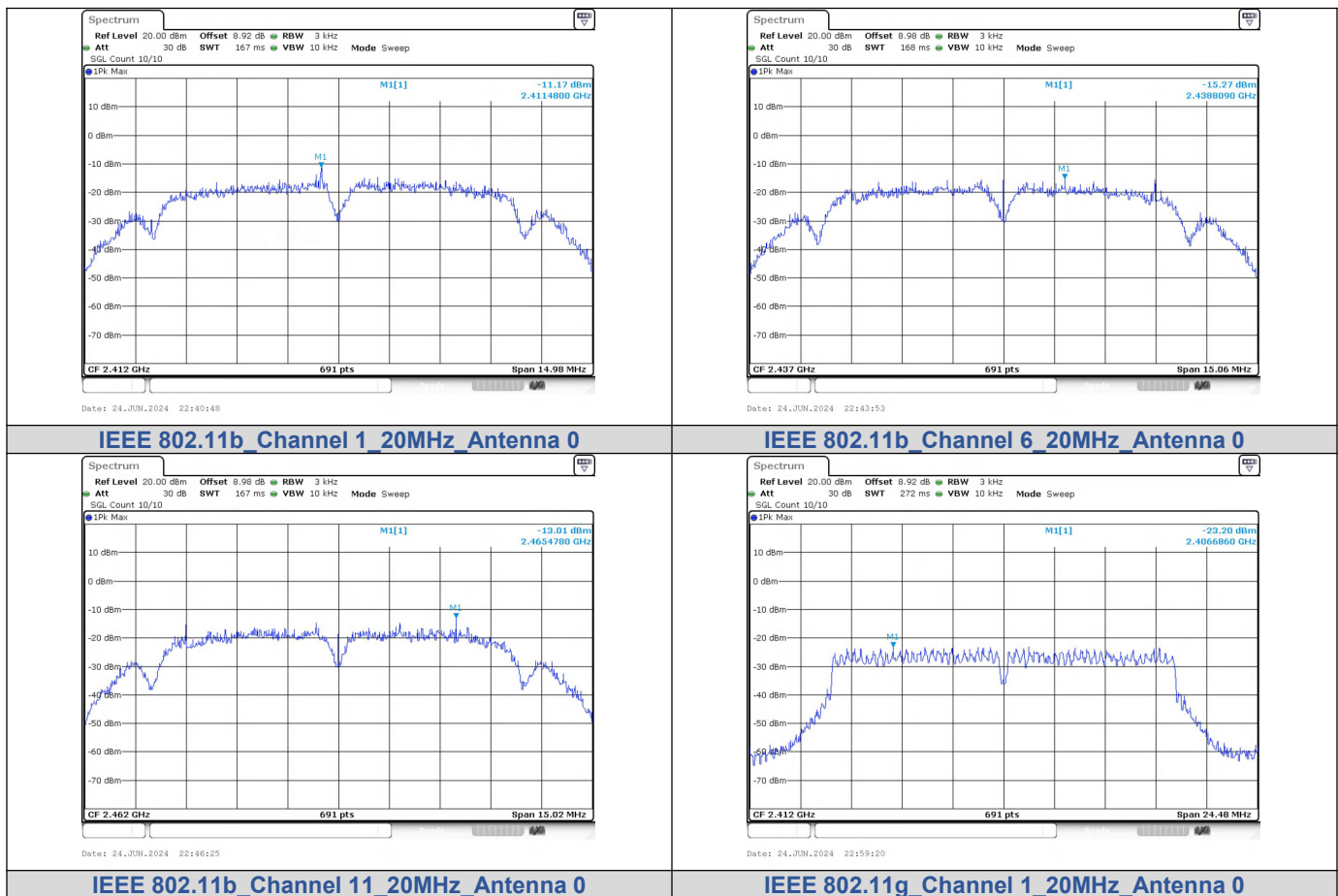
IEEE 802.11n_20MHz_Channel 11

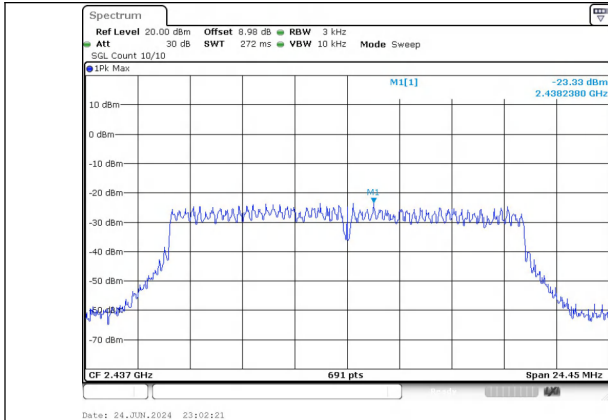
Power Spectral Density

Test Result

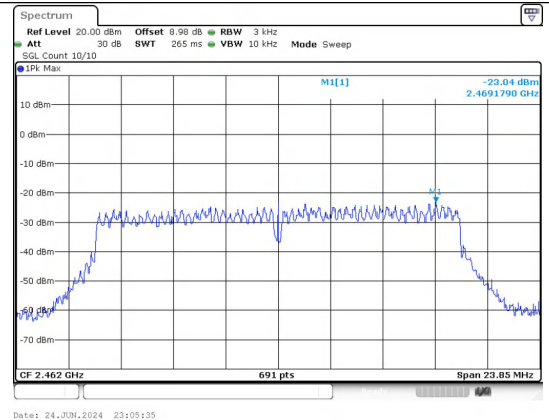
Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-11.167	≤8	PASS
	6	-15.274		PASS
	11	-13.005		PASS
IEEE 802.11g	1	-23.202		PASS
	6	-23.329		PASS
	11	-23.037		PASS
IEEE 802.11n_20	1	-23.510		PASS
	6	-23.306		PASS
	11	-23.381		PASS

Test Graphs

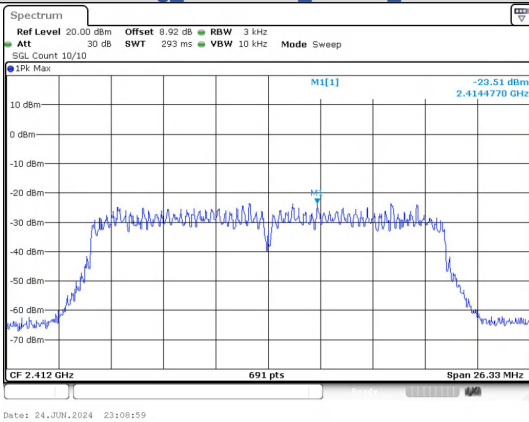




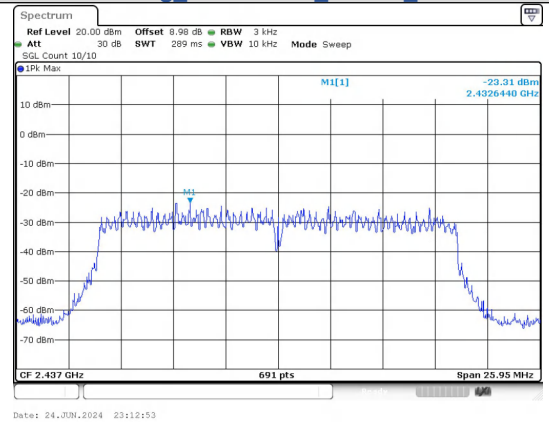
IEEE 802.11g_Channel 6_20MHz_Antenna 0



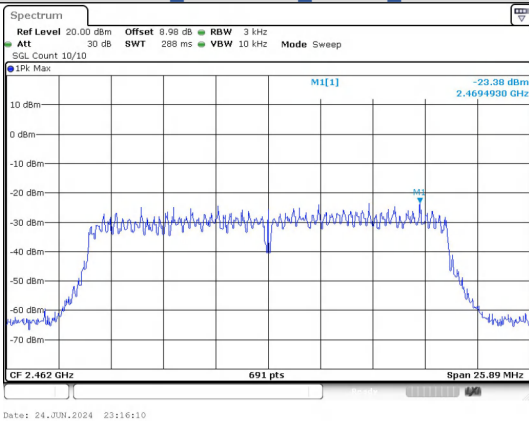
IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0



IEEE 802.11n_Channel 6_20MHz_Antenna 0



IEEE 802.11n_Channel 11_20MHz_Antenna 0