

Appendix A:Test Results of 2.4G WIFI

Conducted Output Power

Test Result

Conducted Output Power

Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	6.74	≤30	PASS
	6	5.68	≤30	PASS
	11	5.83	≤30	PASS
IEEE 802.11g	1	5.76	≤30	PASS
	6	4.81	≤30	PASS
	11	4.86	≤30	PASS
IEEE 802.11n_20	1	5.01	≤30	PASS
	6	4.07	≤30	PASS
	11	4.20	≤30	PASS

ISED EIRP

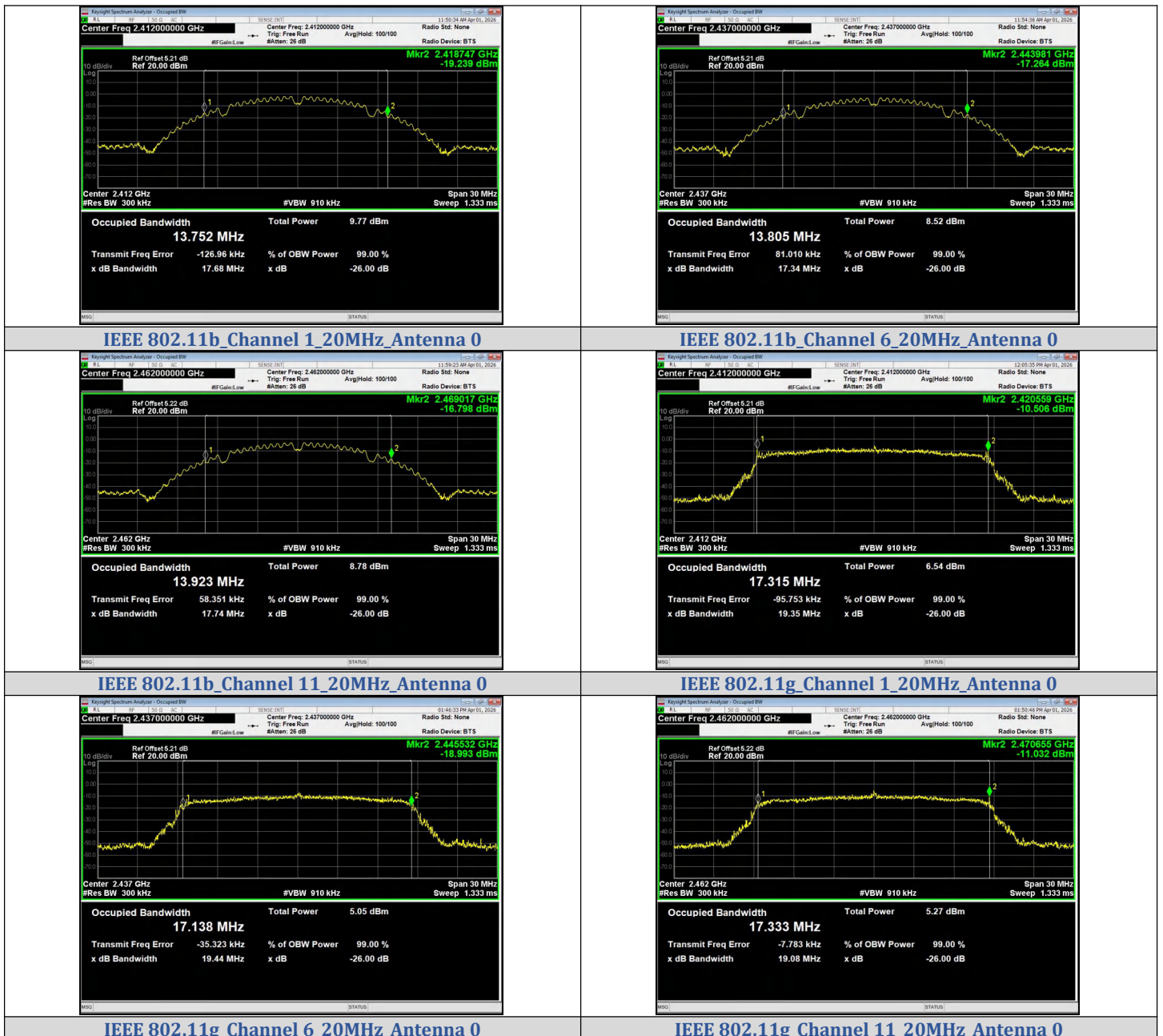
Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	6.1	≤36.02	PASS
	6	5.04	≤36.02	PASS
	11	5.19	≤36.02	PASS
IEEE 802.11g	1	5.12	≤36.02	PASS
	6	4.17	≤36.02	PASS
	11	4.22	≤36.02	PASS
IEEE 802.11n_20	1	4.37	≤36.02	PASS
	6	3.43	≤36.02	PASS
	11	3.56	≤36.02	PASS

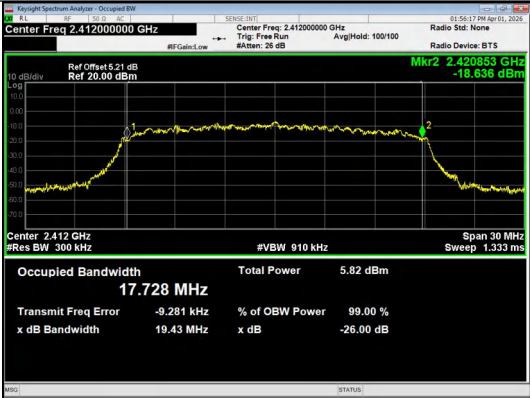
Note:

1. ANT Gain: -0.64dBi, EIRP=Output Power+ANT Gain

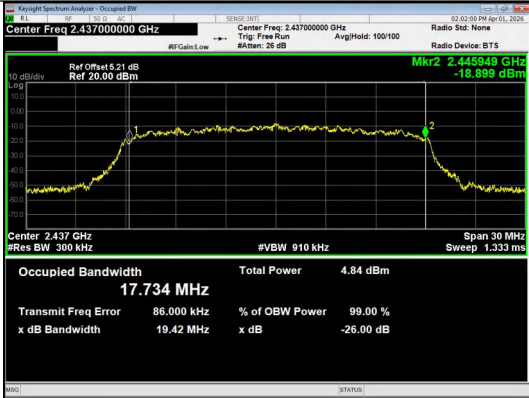
99% Bandwidth**Test Result**

Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11b	1	0	2412	13.752
	6		2437	13.805
	11		2462	13.923
IEEE 802.11g	1		2412	17.315
	6		2437	17.138
	11		2462	17.333
IEEE 802.11n_20	1		2412	17.728
	6		2437	17.734
	11		2462	17.834

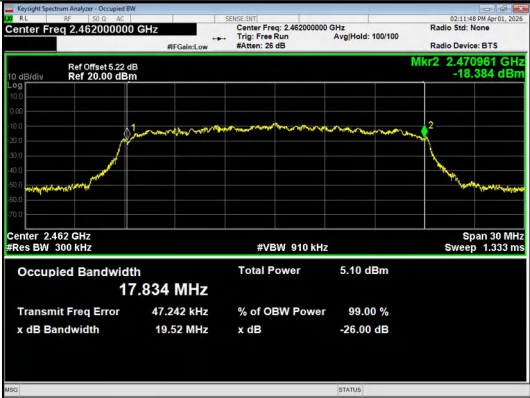
Test Graphs



IEEE 802.11n_Channel 1_20MHz_Antenna 0



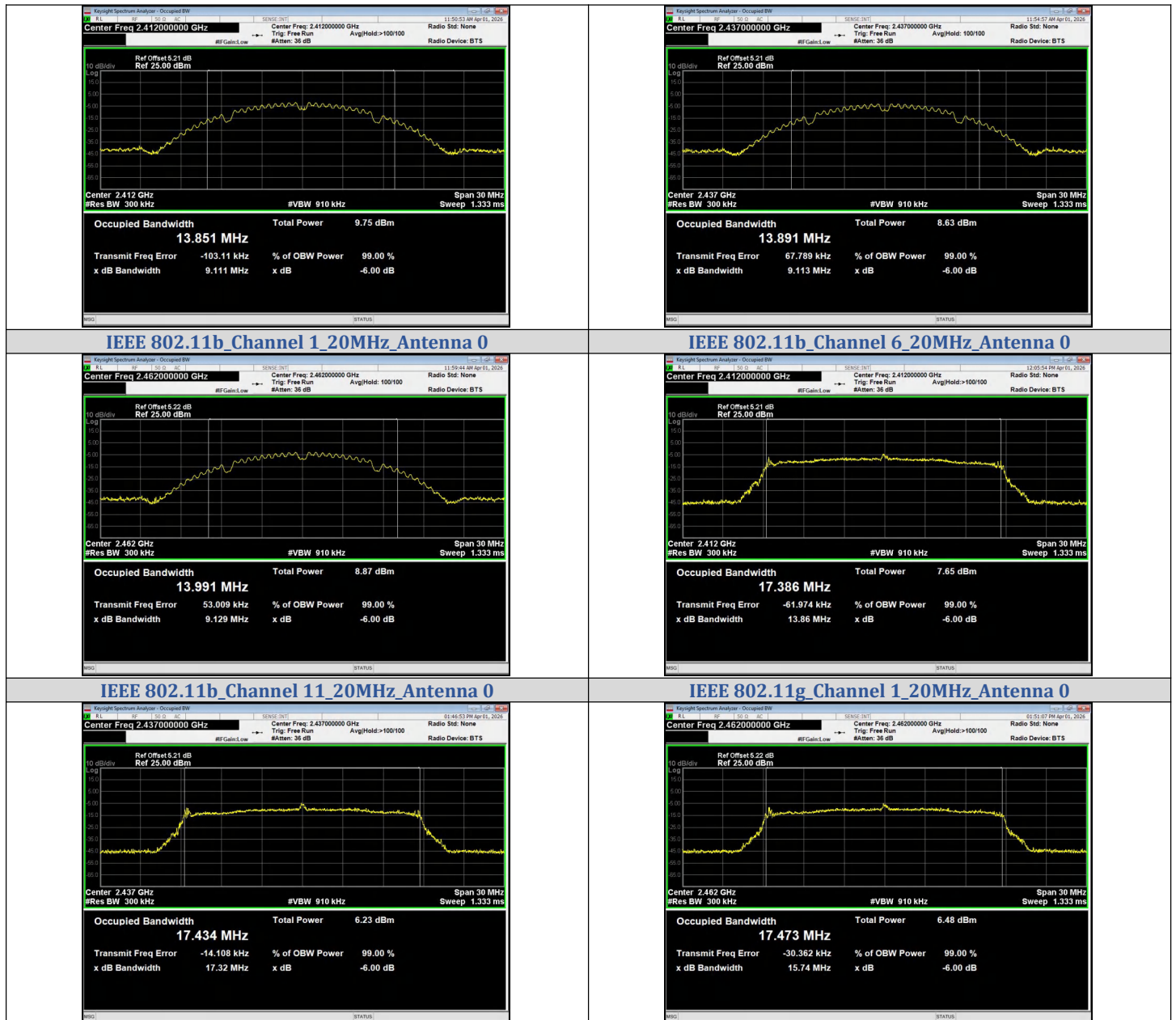
IEEE 802.11n_Channel 6_20MHz_Antenna 0



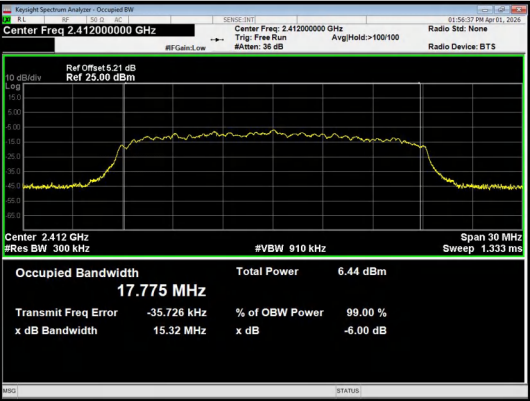
IEEE 802.11n_Channel 11_20MHz_Antenna 0

6dB Bandwidth**Test Result**

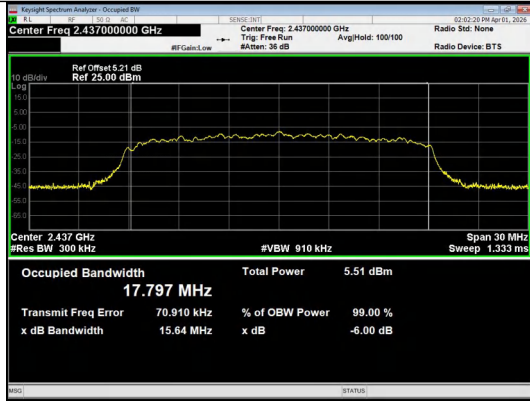
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	9.111	≥0.5	PASS
	6		2437	9.113		PASS
	11		2462	9.129		PASS
IEEE 802.11g	1		2412	13.86		PASS
	6		2437	17.32		PASS
	11		2462	15.74		PASS
IEEE 802.11n_20	1		2412	15.32		PASS
	6		2437	15.64		PASS
	11		2462	15.72		PASS

Test Graphs

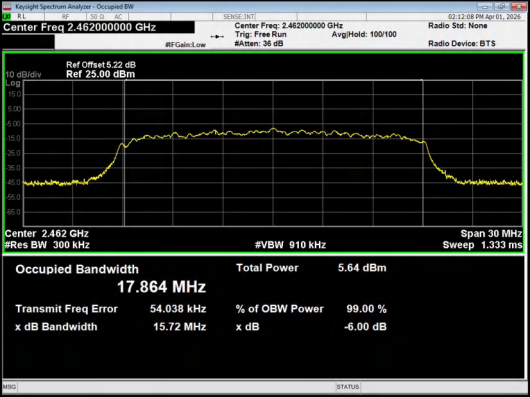
IEEE 802.11g_Channel 6_20MHz_Antenna 0



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

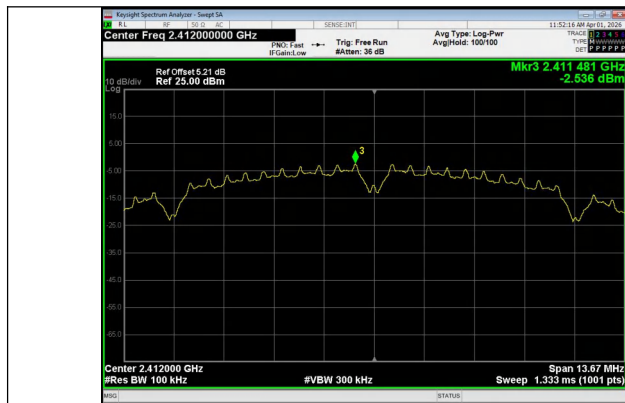
Conducted Spurious & Band Edge Emission

Test Result

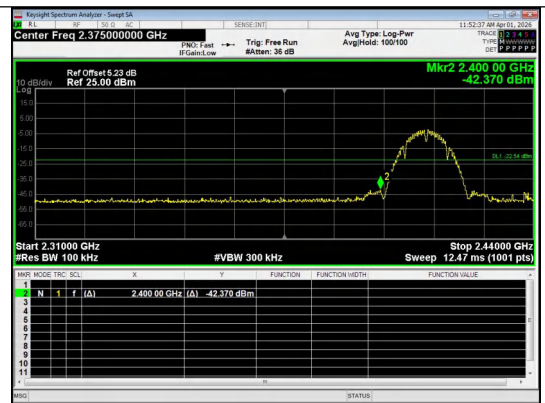
Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2400.00	-42.370	-22.54	-19.830	PASS
	6		24631.7	-45.356	-22.54	-22.816	PASS
			24606.7	-45.357	-23.59	-21.767	PASS
	11		2483.50	-49.154	-23.45	-25.704	PASS
			24567.4	-45.178	-23.45	-21.728	PASS
IEEE 802.11g	1		2393.33	-47.019	-27.68	-19.339	PASS
			2400.00	-47.540	-27.68	-19.860	PASS
	6		24211.6	-44.938	-27.68	-17.258	PASS
			24740.3	-45.325	-29.15	-16.175	PASS
	11		2483.50	-49.063	-27.97	-21.093	PASS
			24766.5	-45.133	-27.97	-17.163	PASS
			2361.61	-46.413	-30.08	-16.333	PASS
IEEE 802.11n_20	1		2400.00	-46.948	-30.08	-16.868	PASS
			24730.9	-45.298	-30.08	-15.218	PASS
	6		24533.1	-43.972	-30.95	-13.022	PASS
		11	2483.50	-49.099	-30.81	-18.289	PASS
			24538.1	-44.328	-30.81	-13.518	PASS

Note: input compensation coefficient (dB)= Cable Loss (dB)+Attenuator coefficient(dB)

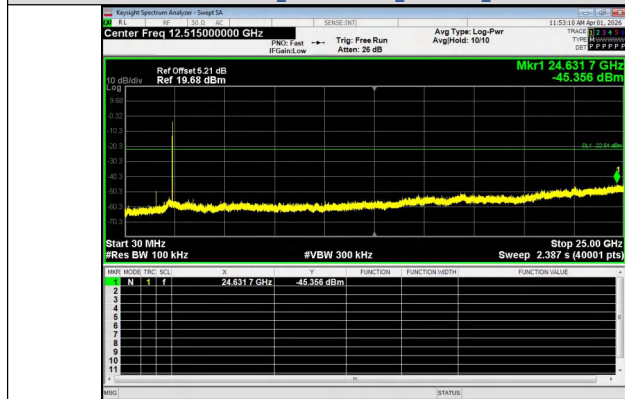
Test Graphs



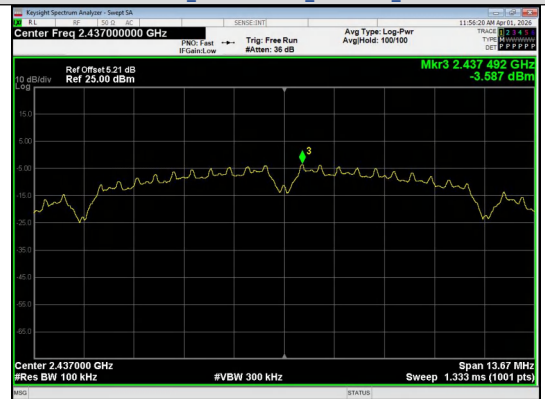
In-Band Reference Level
IEEE 802.11b_Channel 1_20MHz_Antenna 0



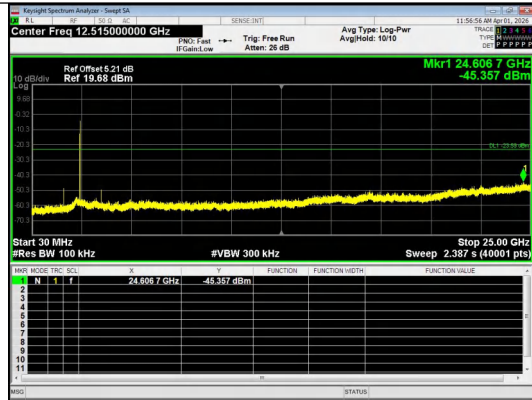
Out Of Band Emission
IEEE 802.11b_Channel 1_20MHz_Antenna 0



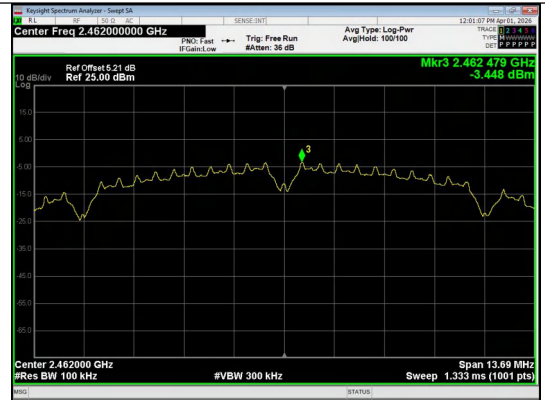
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 1_20MHz_Antenna 0



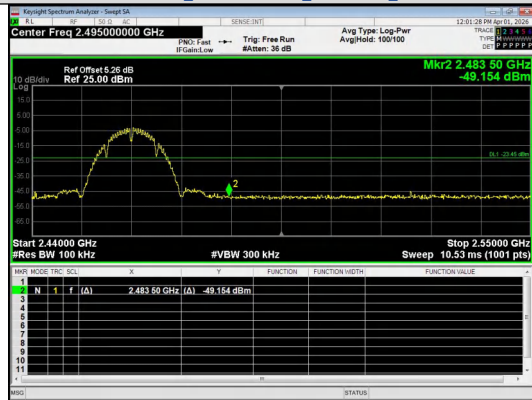
In-Band Reference Level
IEEE 802.11b_Channel 6_20MHz_Antenna 0



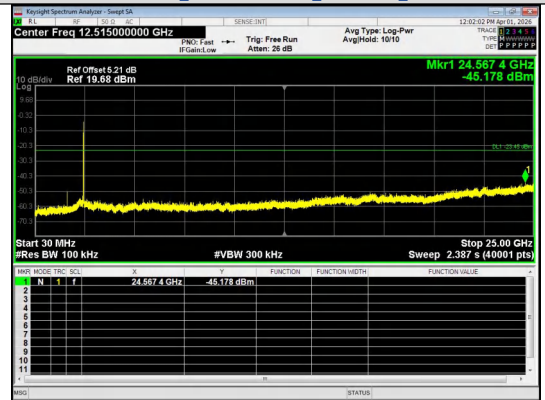
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IEEE 802.11b_Channel 6_20MHz_Antenna 0



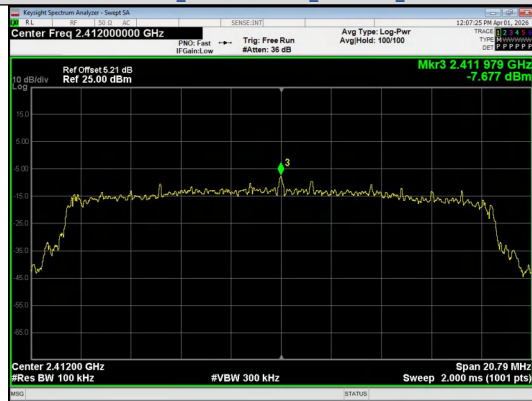
In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0



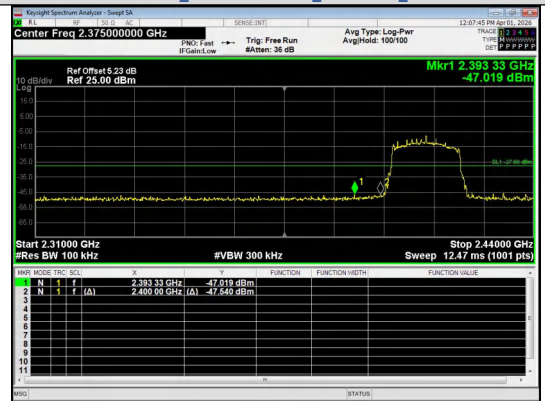
Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0



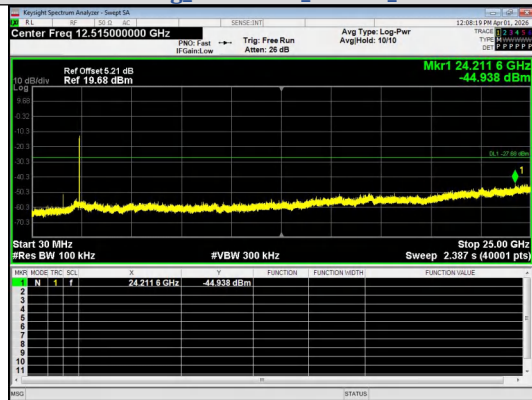
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 0



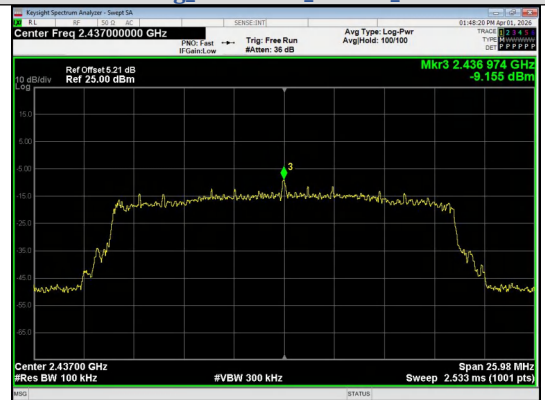
In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0



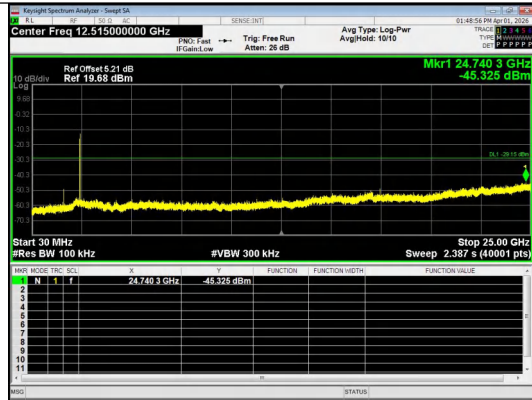
Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



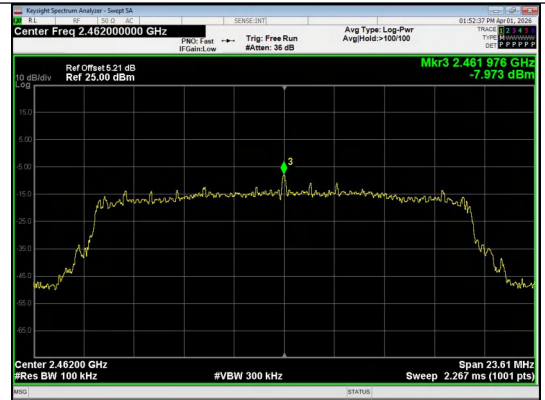
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 1_20MHz_Antenna 0



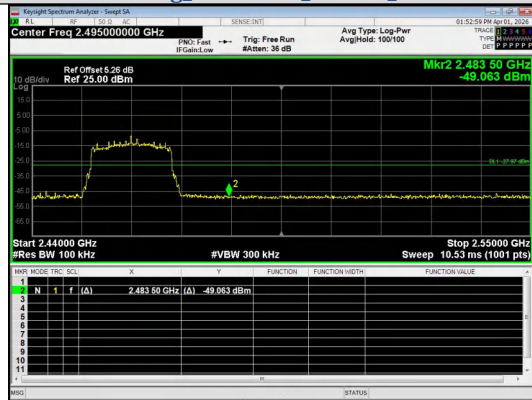
In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0



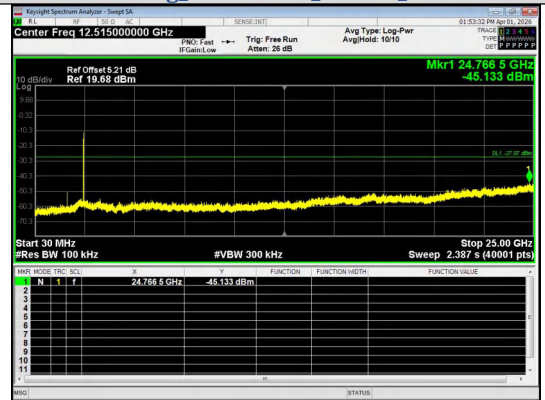
30.0 MHz - 25000.0 MHz
IEEE 802.11g Channel 6_20MHz_Antenna 0



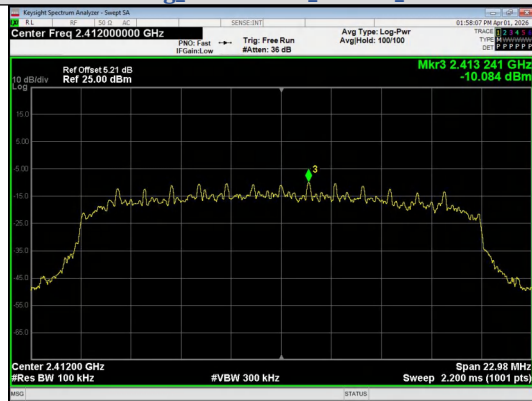
In-Band Reference Level
IEEE 802.11g Channel 11_20MHz_Antenna 0



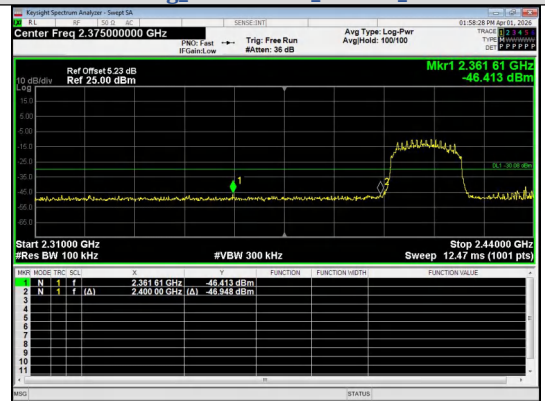
Out Of Band Emission
IEEE 802.11g Channel 11_20MHz_Antenna 0



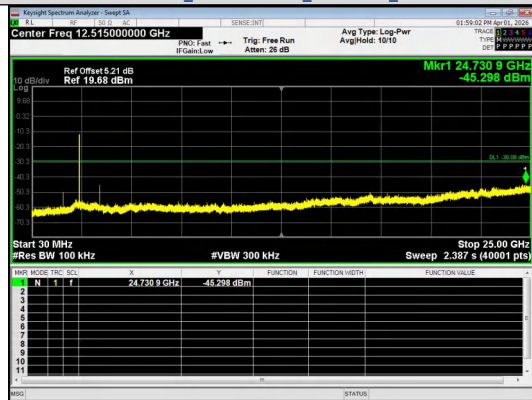
30.0 MHz - 25000.0 MHz
IEEE 802.11g Channel 11_20MHz_Antenna 0



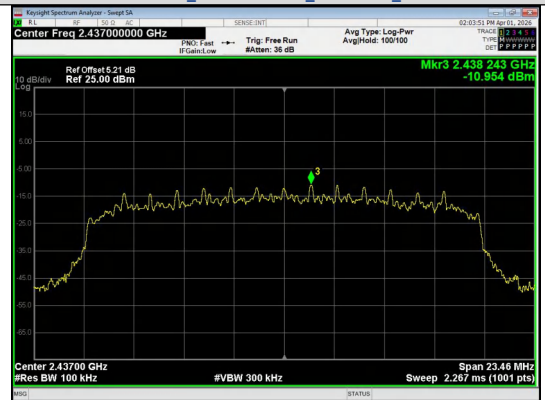
In-Band Reference Level
IEEE 802.11n Channel 1_20MHz_Antenna 0



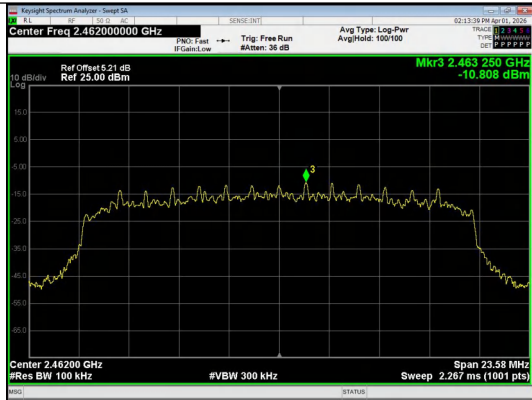
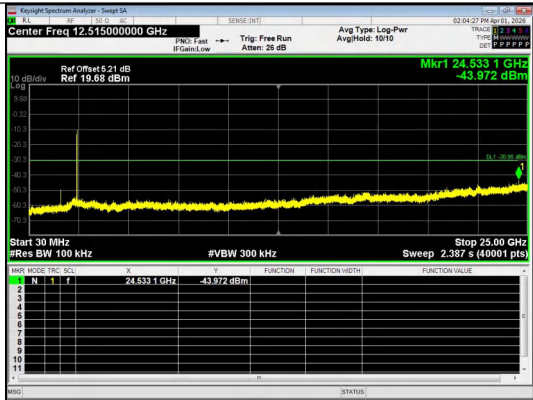
Out Of Band Emission
IEEE 802.11n Channel 1_20MHz_Antenna 0



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

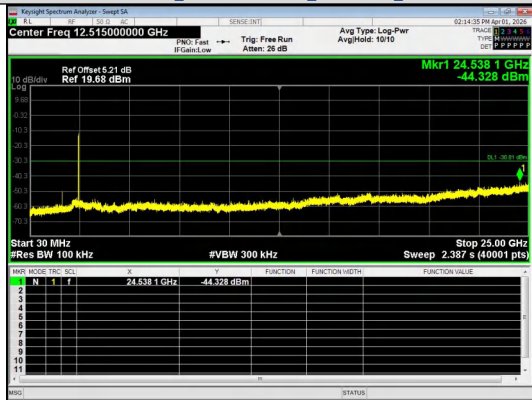
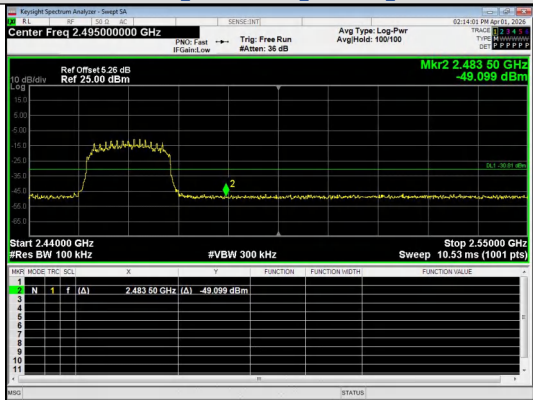


In-Band Reference Level
IEEE 802.11n Channel 6_20MHz_Antenna 0



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

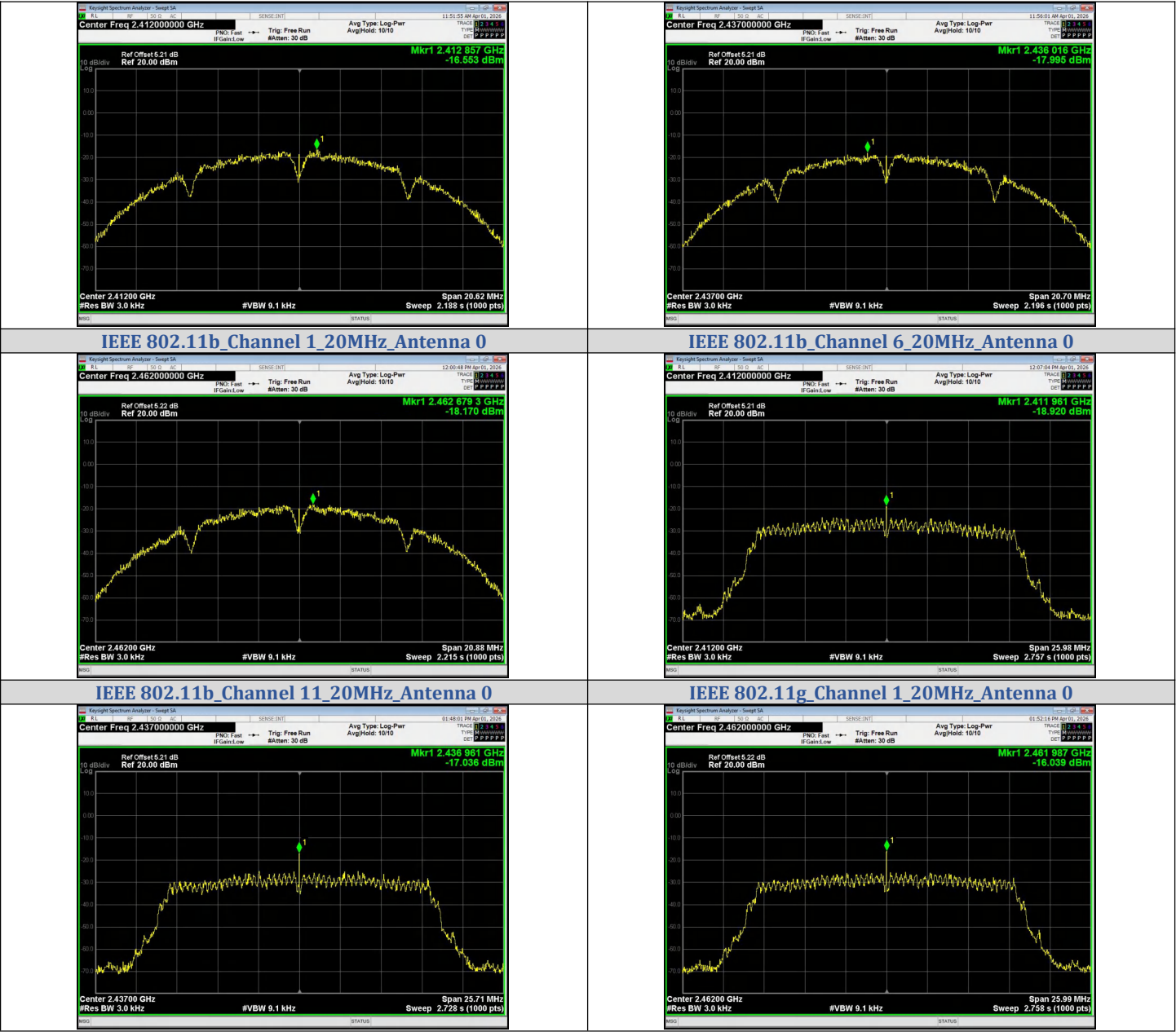
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 11_20MHz_Antenna 0

Power Spectral Density

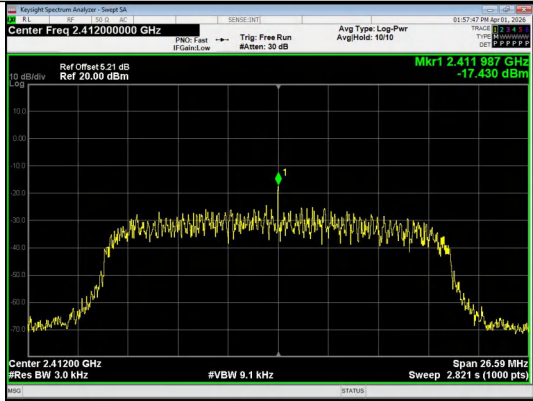
Test Result

Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-16.550	≤8	PASS
	6	-18.000		PASS
	11	-18.170		PASS
IEEE 802.11g	1	-18.920		PASS
	6	-17.040		PASS
	11	-16.040		PASS
IEEE 802.11n_20	1	-17.430		PASS
	6	-18.270		PASS
	11	-18.180		PASS

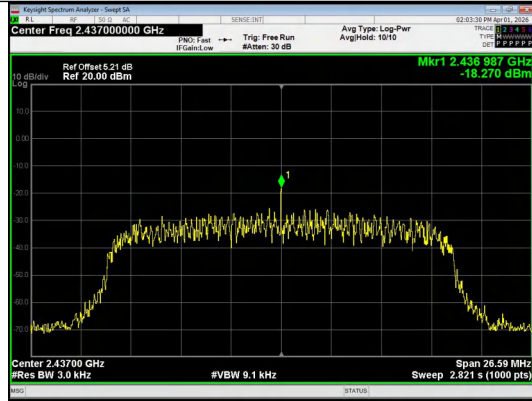
Test Graphs



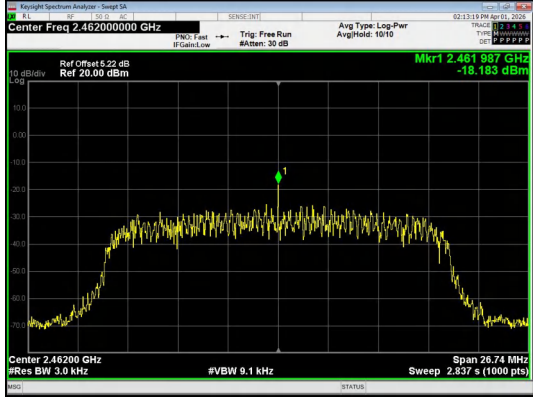
IEEE 802.11g_Channel 6_20MHz_Antenna 0



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