Keyway Testing Technology (Guangdong) Co., Ltd
Room 2102, Building 6, Dongyi Intelligent Equipment New Energy Vehicle Park,
No.30 of Tangxia District, Dongshen Road, Tangxia Town, Dongguan City,
Guangdong province, China

RF Conducted Test

E.U.T:	Power Pro Control System
Model Number:	WF-3611
Sample ID	33000254426
Sample(s) Status:	Engineer sample
Date of Receipt:	Oct. 17, 2025
Date of Test:	Oct. 17 ~ 27, 2025
FCC ID:	2BDDWWF3611
Report No.	2025102784555209-00
Tester	Jacob Ouyang

A.1 CONDUCTED OUTPUT POWER

Test Result

Conducted Output Power

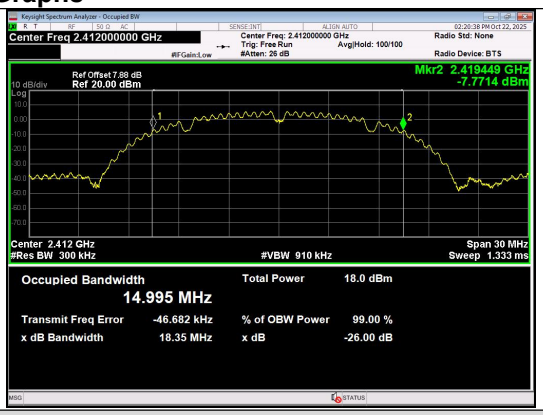
Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	11.94	≤30	PASS
	6	12.08	≤30	PASS
	11	12.00	≤30	PASS
IEEE 802.11g	1	10.08	≤30	PASS
	6	10.49	≤30	PASS
	11	10.20	≤30	PASS
IEEE 802.11n_20	1	9.51	≤30	PASS
	6	9.99	≤30	PASS
	11	9.47	≤30	PASS
IEEE 802.11n_40	3	8.17	≤30	PASS
	6	8.88	≤30	PASS
	9	8.78	≤30	PASS

A.2 99% BANDWIDTH

Test Result

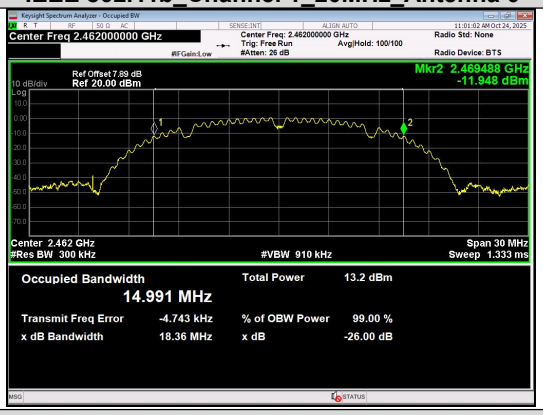
Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11b	1	0	2412	14.995
	6		2437	14.944
	11		2462	14.991
IEEE 802.11g	1		2412	16.667
	6		2437	16.625
	11		2462	16.667
IEEE 802.11n_20	1		2412	17.751
	6		2437	17.770
	11		2462	17.780
IEEE 802.11n_40	3		2422	36.288
	6		2437	36.200
	9		2452	36.340

Test Graphs

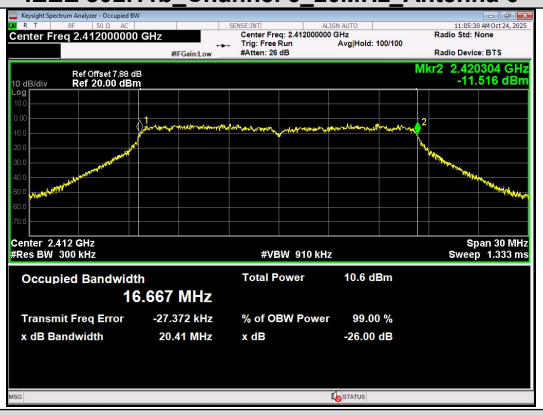


IEEE 802.11b_Channel 1_20MHz_Antenna 0

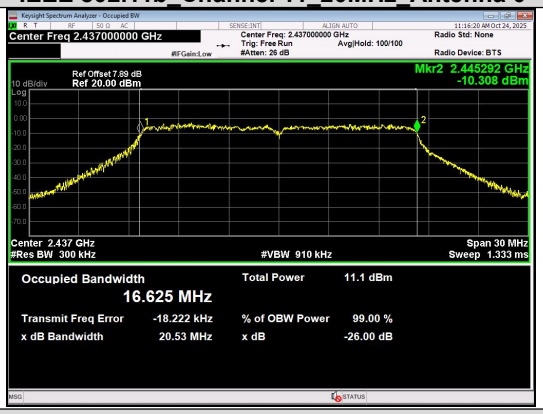
IEEE 802.11b_Channel 6_20MHz_Antenna 0



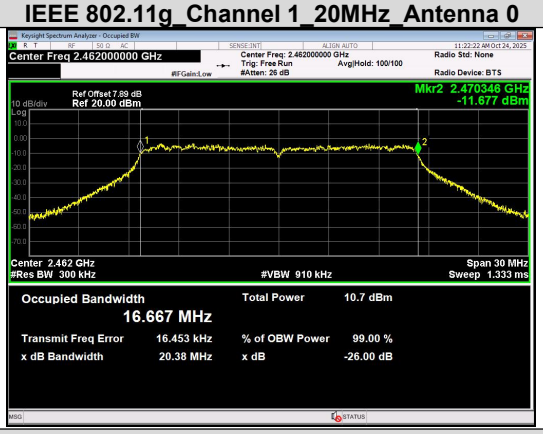
IEEE 802.11b_Channel 11_20MHz_Antenna 0



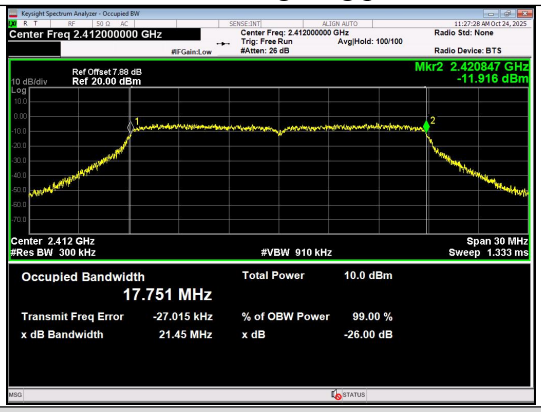
IEEE 802.11g_Channel 1_20MHz_Antenna 0



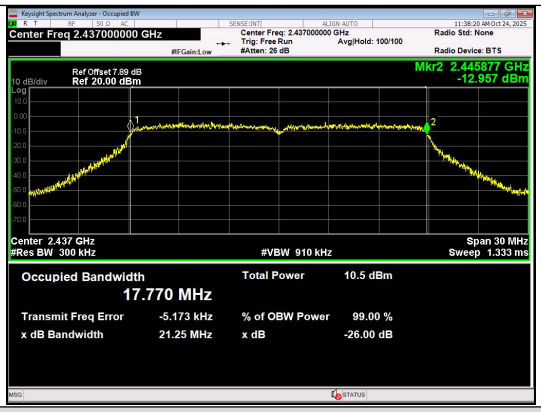
IEEE 802.11g_Channel 6_20MHz_Antenna 0



IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0



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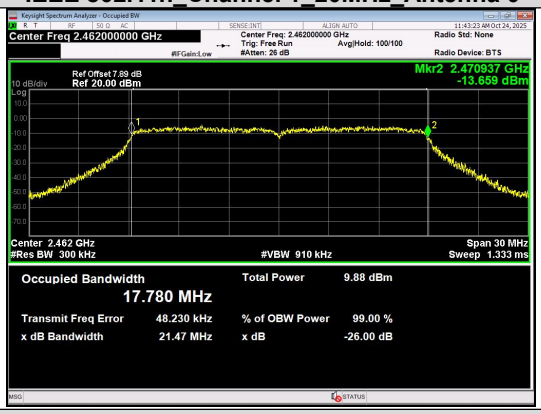
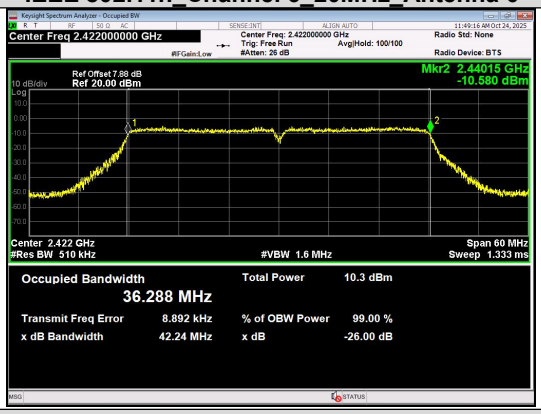
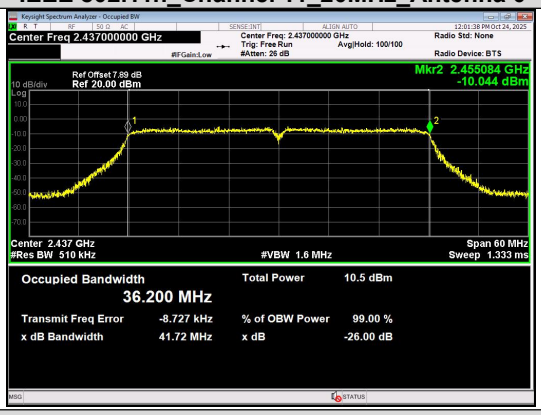


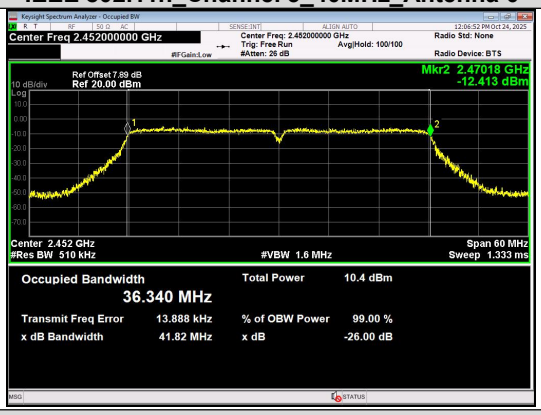
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0



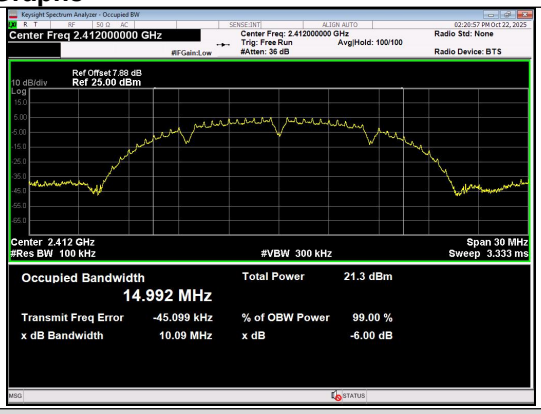
IEEE 802.11n_Channel 9_40MHz_Antenna 0

A.3 6DB BANDWIDTH

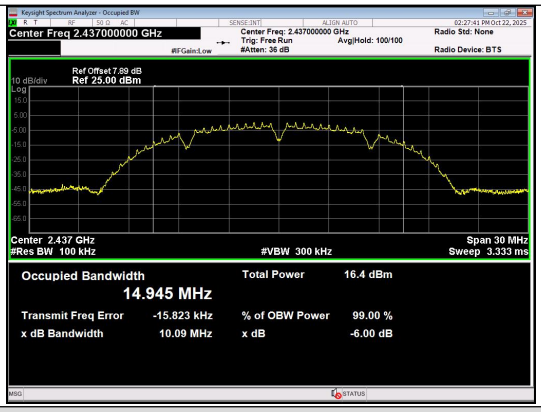
Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	10.09	≥0.5	PASS
	6		2437	10.09		PASS
	11		2462	10.05		PASS
IEEE 802.11g	1		2412	16.37		PASS
	6		2437	16.31		PASS
	11		2462	16.44		PASS
IEEE 802.11n_20	1		2412	17.31		PASS
	6		2437	17.05		PASS
	11		2462	17.51		PASS
IEEE 802.11n_40	3		2422	35.84		PASS
	6		2437	35.50		PASS
	9		2452	35.77		PASS

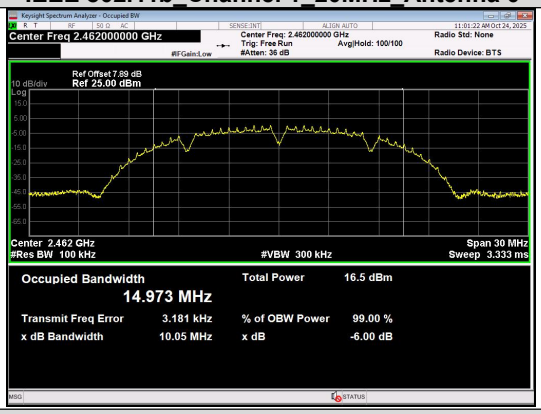
Test Graphs



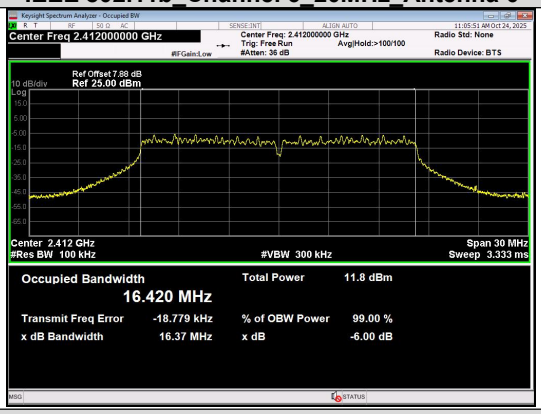
IEEE 802.11b_Channel 1_20MHz_Antenna 0



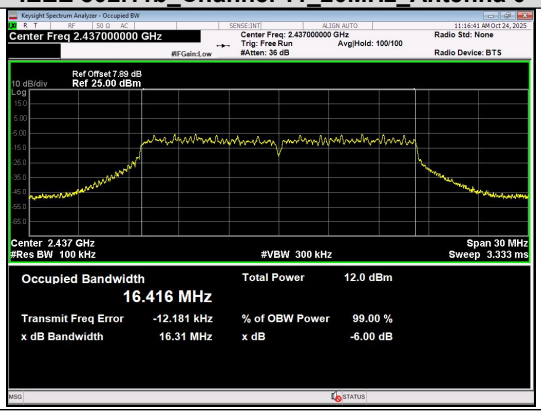
IEEE 802.11b_Channel 6_20MHz_Antenna 0



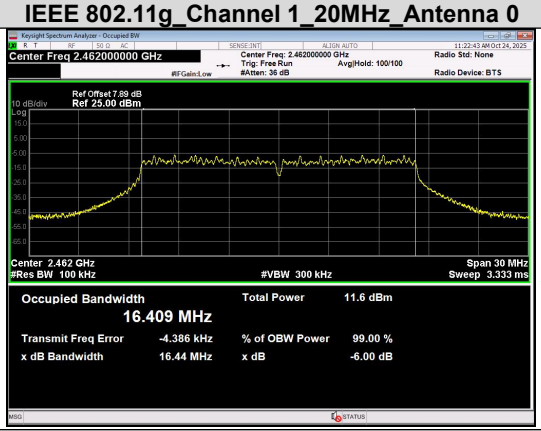
IEEE 802.11b_Channel 11_20MHz_Antenna 0



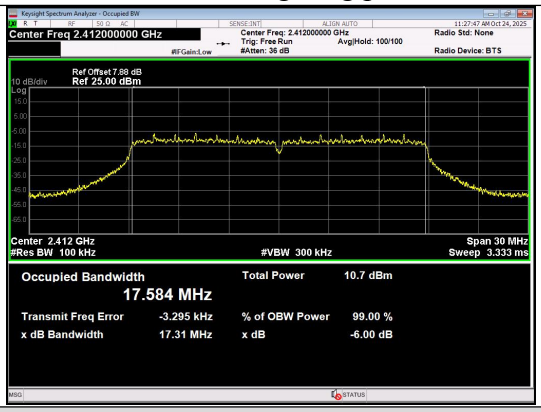
IEEE 802.11g_Channel 1_20MHz_Antenna 0



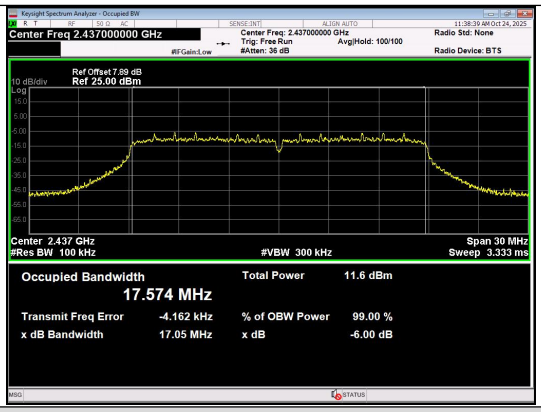
IEEE 802.11g_Channel 6_20MHz_Antenna 0



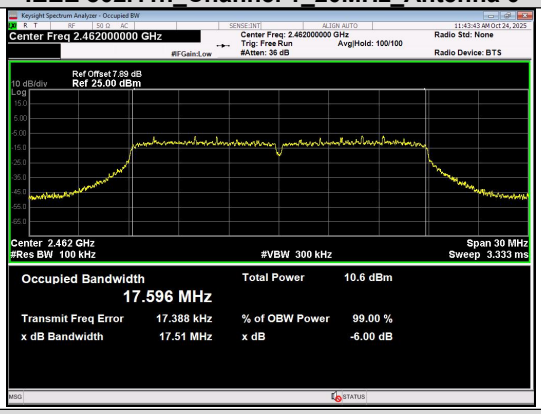
IEEE 802.11g_Channel 11_20MHz_Antenna 0



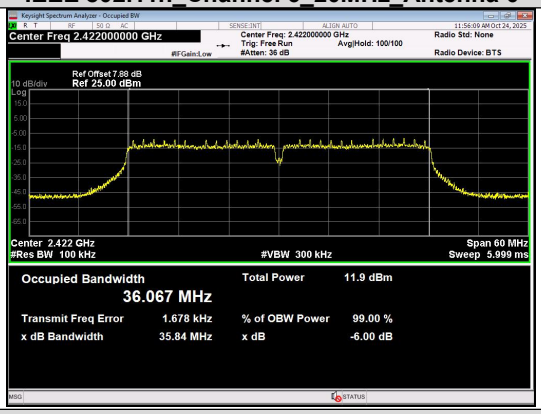
IEEE 802.11n_Channel 1_20MHz_Antenna 0



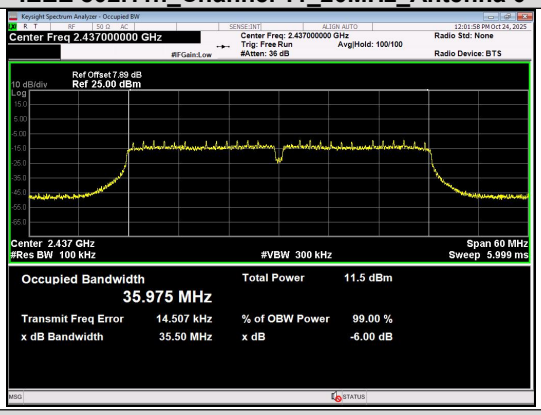
IEEE 802.11n_Channel 6_20MHz_Antenna 0



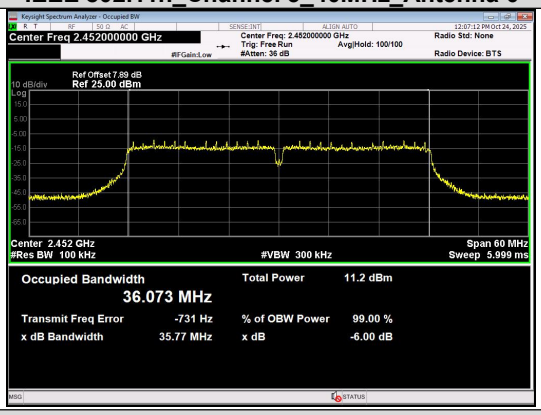
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0



IEEE 802.11n_Channel 9_40MHz_Antenna 0

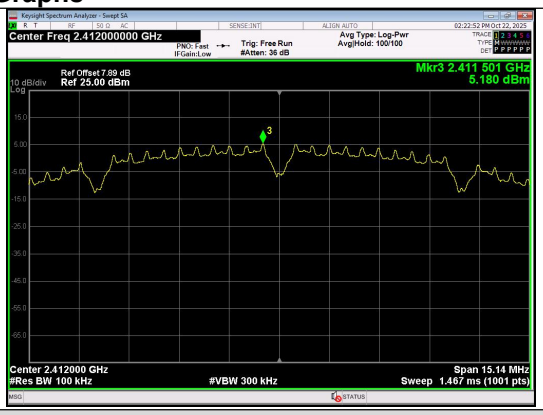
A.4 CONDUCTED SPURIOUS & BAND EDGE EMISSION

Test Result

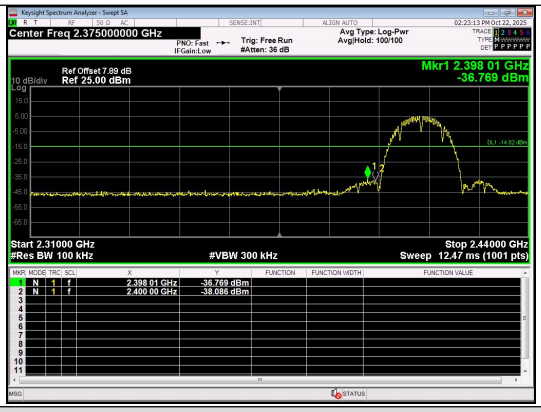
Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2398.01	-36.769	-14.82	-21.949	PASS
			2400.00	-38.086	-14.82	-23.266	PASS
			21144.0	-43.104	-14.82	-28.284	PASS
	6		24935.7	-43.012	-19.66	-23.352	PASS
	11		2483.50	-46.903	-19.14	-27.763	PASS
			21161.5	-42.790	-19.14	-23.650	PASS
IEEE 802.11g	1		2400.00	-42.342	-25.71	-16.632	PASS
			21547.3	-42.517	-25.71	-16.807	PASS
	6		21551.6	-42.816	-25.66	-17.156	PASS
	11		2483.50	-47.051	-26.08	-20.971	PASS
			21596.0	-41.713	-26.08	-15.633	PASS
IEEE 802.11n_20	1		2400.00	-41.365	-25.42	-15.945	PASS
			21119.0	-42.550	-25.42	-17.130	PASS
	6		17907.3	-43.187	-26.01	-17.177	PASS
	11		2483.50	-47.059	-26.57	-20.489	PASS
			21179.0	-42.245	-26.57	-15.675	PASS
IEEE 802.11n_40	3		2400.00	-42.576	-28.7	-13.876	PASS
			21575.4	-41.829	-28.7	-13.129	PASS
	6		21141.5	-42.544	-29.02	-13.524	PASS
	9		2483.50	-47.186	-29.08	-18.106	PASS
			21559.8	-43.139	-29.08	-14.059	PASS

Note: input compensation coeffcient (dB)= Cable Loss (dB)

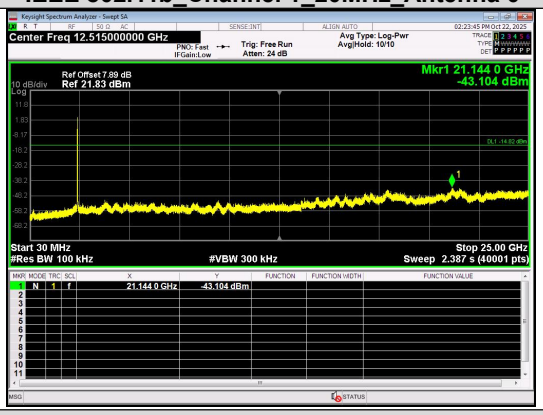
Test Graphs



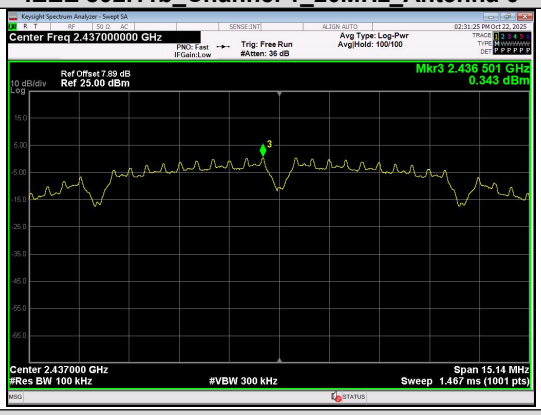
In-Band Reference Level
IEEE 802.11b_Channel 1_20MHz_Antenna 0



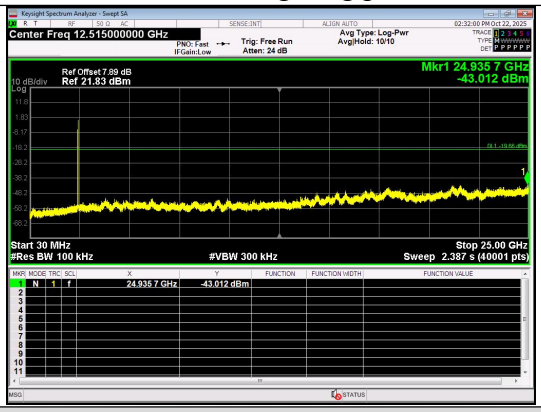
Out Of Band Emission
IEEE 802.11b_Channel 1_20MHz_Antenna 0



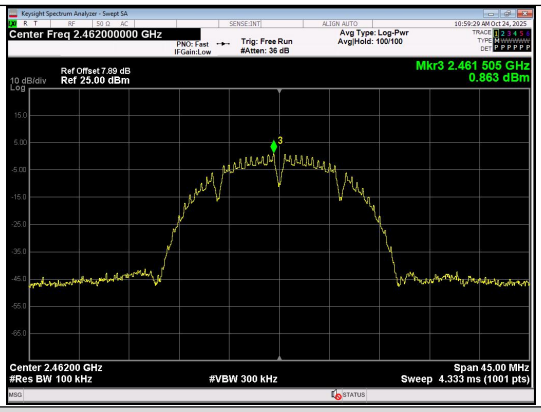
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 1_20MHz_Antenna 0



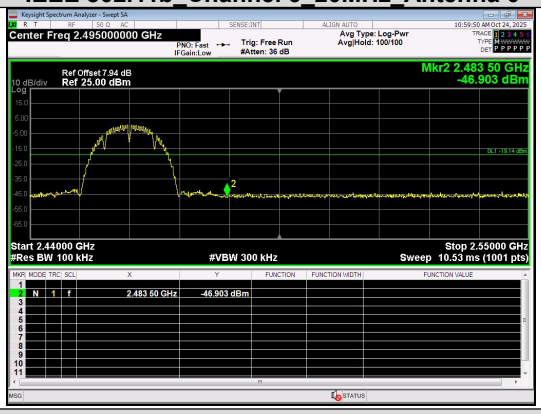
In-Band Reference Level
IEEE 802.11b_Channel 6_20MHz_Antenna 0



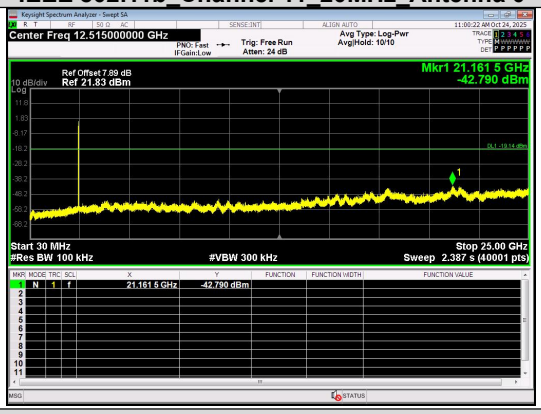
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 6_20MHz_Antenna 0



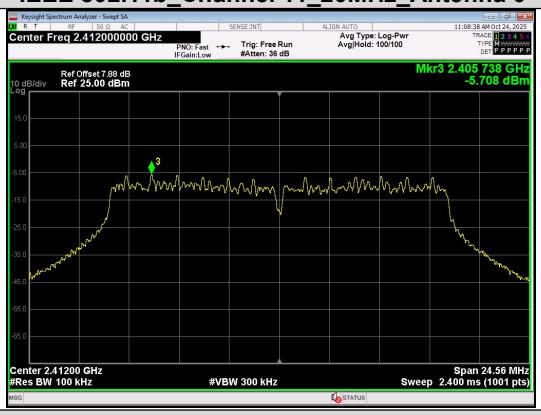
In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0



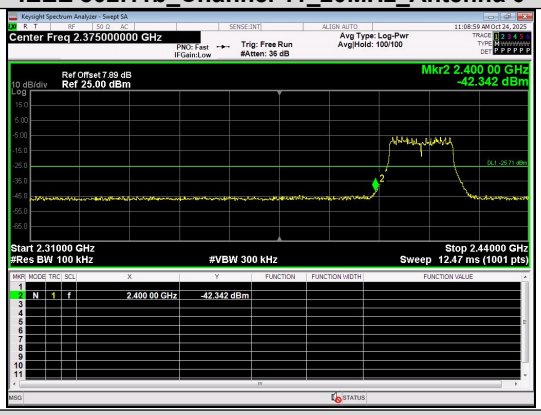
Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0



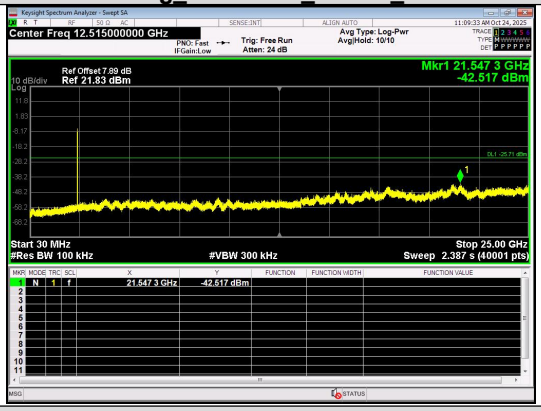
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 0



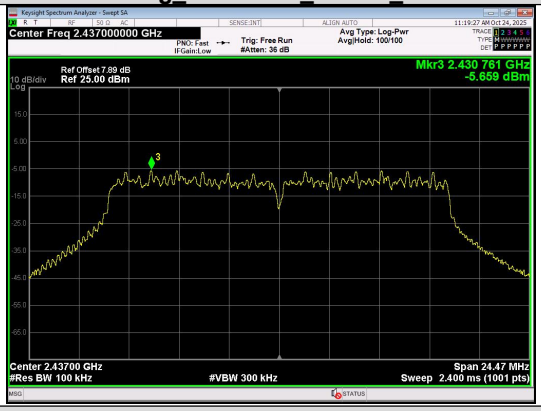
In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0



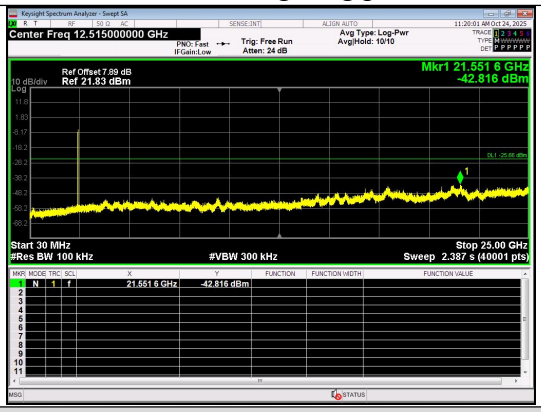
Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



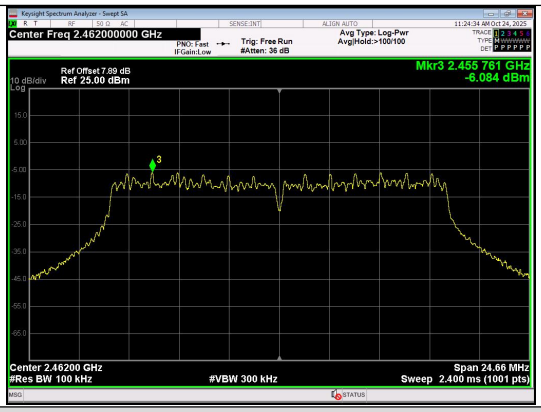
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 1_20MHz_Antenna 0



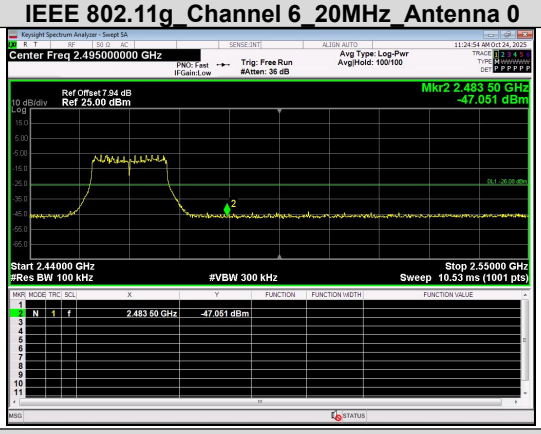
In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0



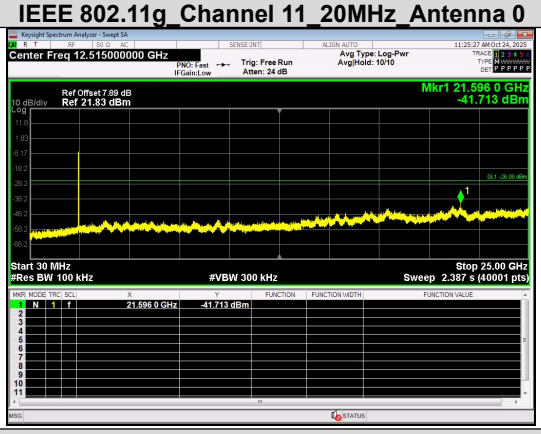
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 6_20MHz_Antenna 0



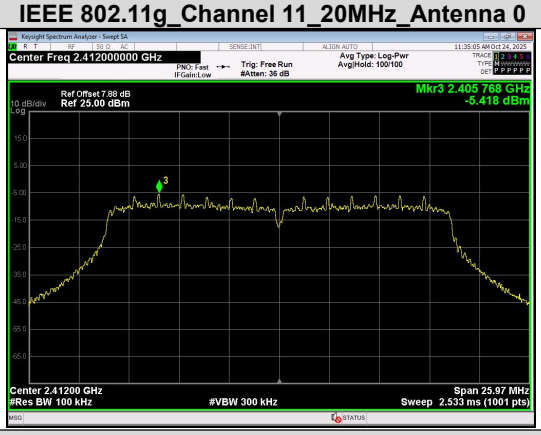
In-Band Reference Level
IEEE 802.11g_Channel 11_20MHz_Antenna 0



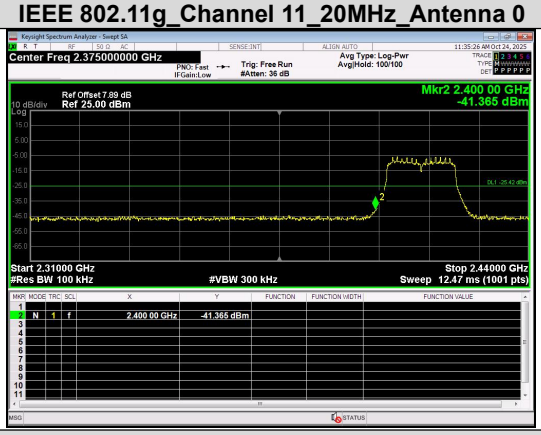
Out Of Band Emission
IEEE 802.11g_Channel 11_20MHz_Antenna 0



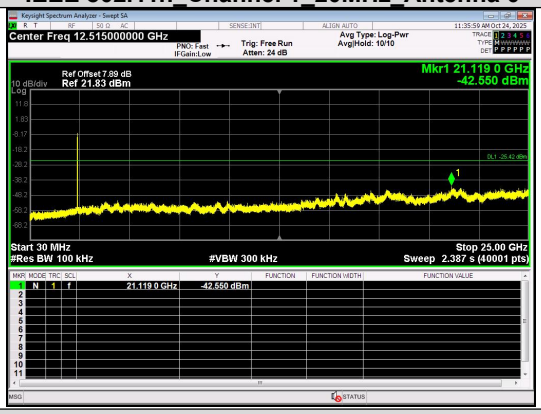
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 11_20MHz_Antenna 0



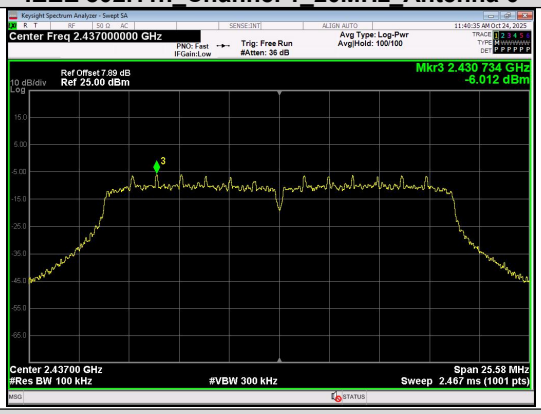
In-Band Reference Level
IEEE 802.11n_Channel 1_20MHz_Antenna 0



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