

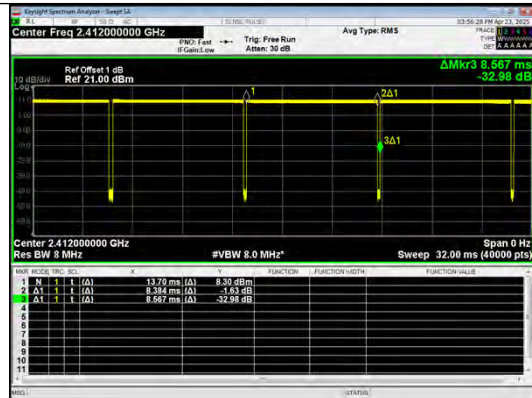


Duty Cycle

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	8.384	8.567	97.86	0.9786	0.0939	0.1193
		6		8.384	8.576	97.77	0.9777	0.0979	0.1193
		11		8.384	8.567	97.87	0.9787	0.0935	0.1193
IEEE 802.11g		1		1.396	1.591	87.74	0.8774	0.568	0.7163
		6		1.396	1.600	87.25	0.8725	0.5923	0.7163
		11		1.397	1.573	88.81	0.8881	0.5154	0.7158
IEEE 802.11n_20	MCS 0	1		1.176	1.354	86.86	0.8686	0.6118	0.8503
		6		1.177	1.346	87.44	0.8744	0.5829	0.8496
		11		1.178	1.355	86.94	0.8694	0.6078	0.8489
IEEE 802.11n_40		3		0.589	0.758	77.74	0.7774	1.0936	1.6978
		6		0.589	0.784	75.09	0.7509	1.2442	1.6978
		9		0.589	0.785	75.05	0.7505	1.2465	1.6978

Test Graphs



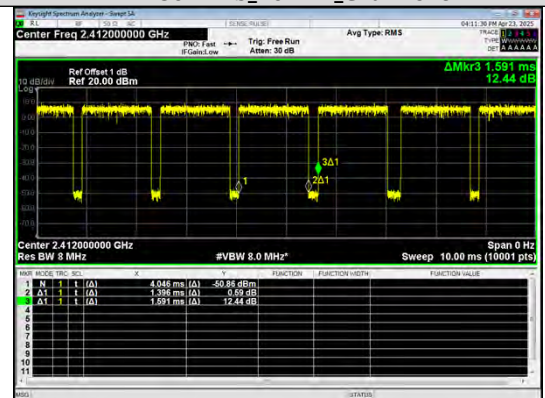
IEEE 802.11b 20MHz_Channel 1



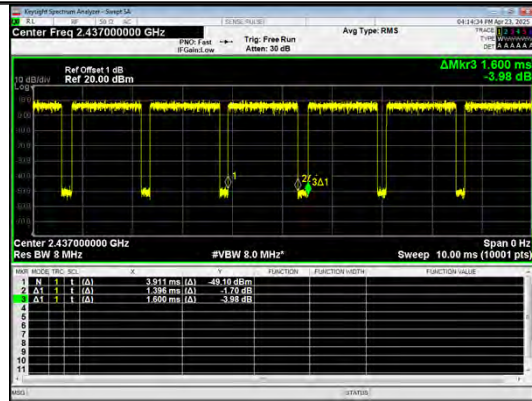
IEEE 802.11b 20MHz_Channel 6



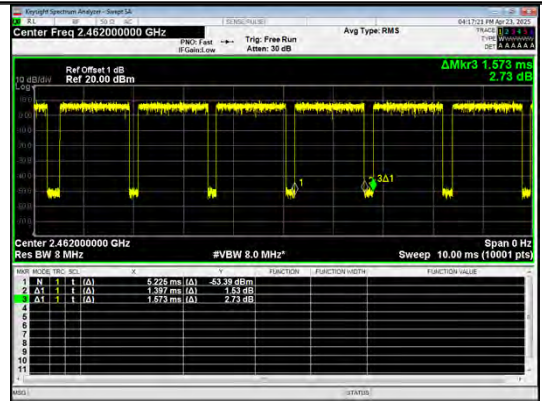
IEEE 802.11b_20MHz_Channel 11



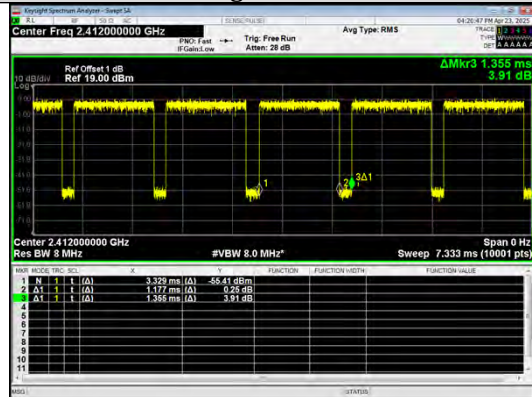
IEEE 802.11g_20MHz_Channel 1



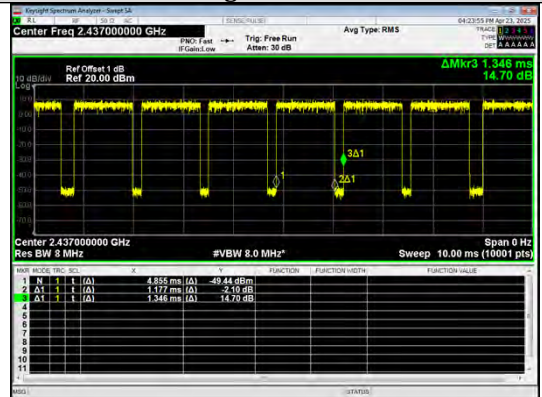
IEEE 802.11g_20MHz_Channel 6



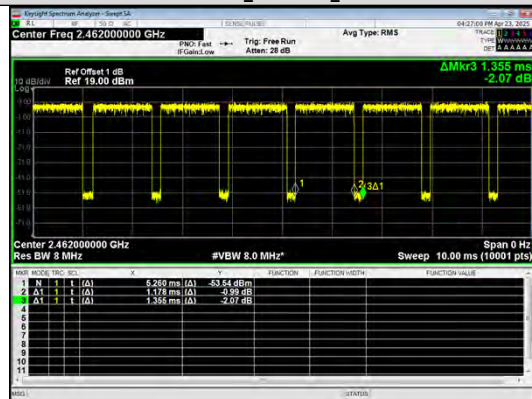
IEEE 802.11g_20MHz_Channel 11



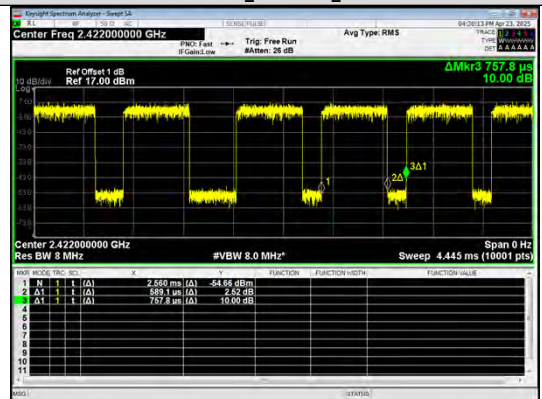
IEEE 802.11n_20MHz_Channel 1



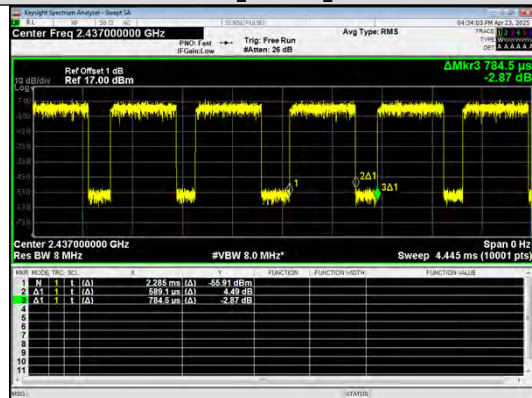
IEEE 802.11n_20MHz_Channel 6



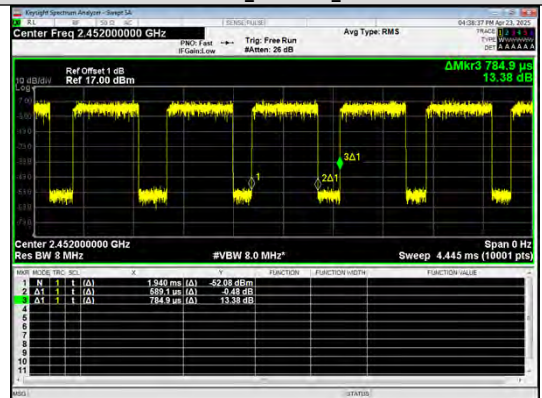
IEEE 802.11n_20MHz_Channel 11



IEEE 802.11n_40MHz_Channel 3



IEEE 802.11n_40MHz_Channel 6



IEEE 802.11n_40MHz_Channel 9

**Conducted Output Power****Test Result**

Conducted Output Power

Mode	Channel	Ant. 0 (dBm)	Ant. 1 (dBm)	Ant. 2 (dBm)	Ant. 3 (dBm)	Total (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	13.81				N/A	≤30	PASS
	6	14.58				N/A	≤30	PASS
	11	13.80				N/A	≤30	PASS
IEEE 802.11g	1	15.92				N/A	≤30	PASS
	6	16.64				N/A	≤30	PASS
	11	16.30				N/A	≤30	PASS
IEEE 802.11n_20	1	15.85				N/A	≤30	PASS
	6	16.71				N/A	≤30	PASS
	11	16.32				N/A	≤30	PASS
IEEE 802.11n_40	3	16.24				N/A	≤30	PASS
	6	16.59				N/A	≤30	PASS
	9	15.73				N/A	≤30	PASS

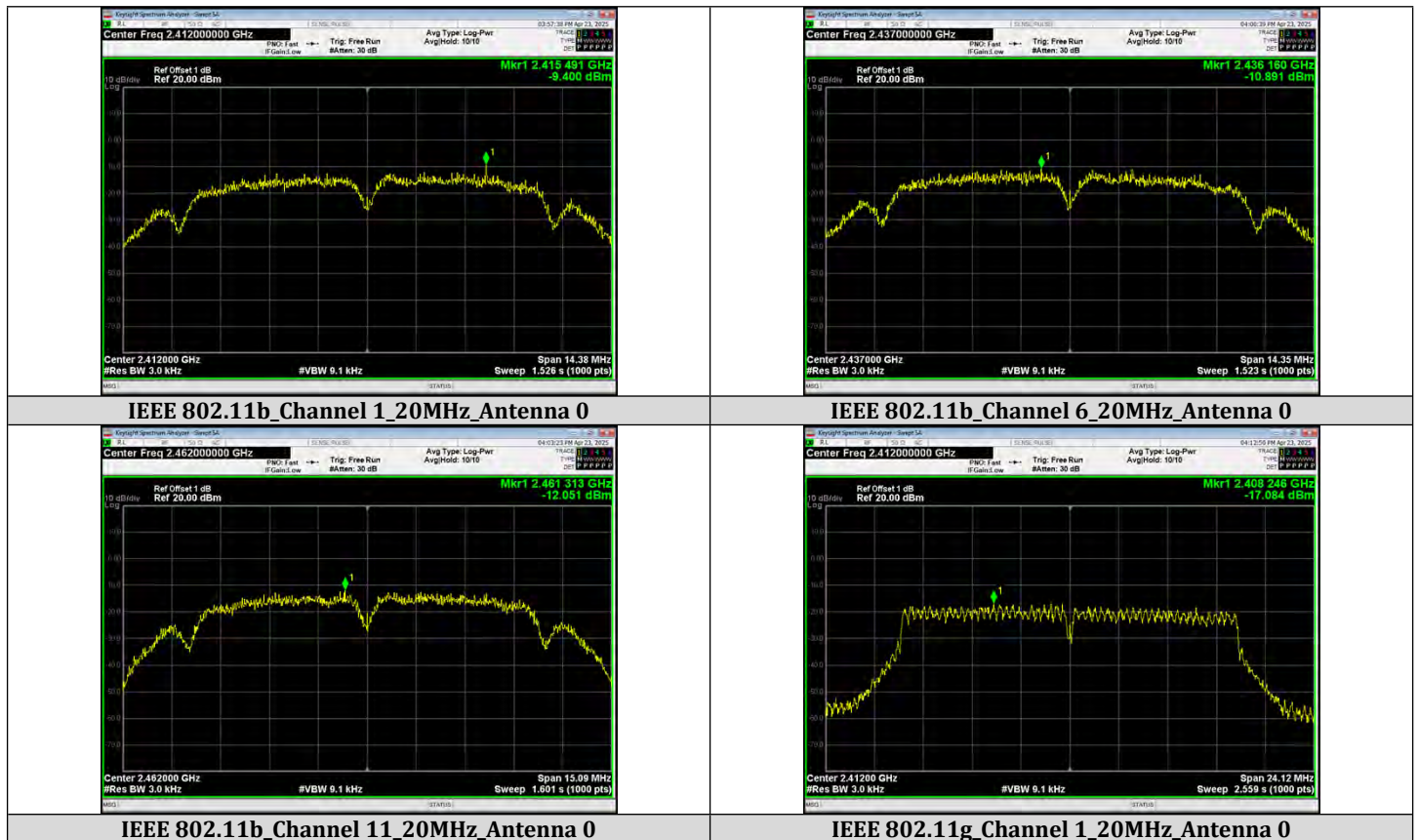


Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-9.400	≤8	PASS
	6	-10.891		PASS
	11	-12.051		PASS
IEEE 802.11g	1	-17.084		PASS
	6	-14.638		PASS
	11	-15.865		PASS
IEEE 802.11n_20	1	-16.396		PASS
	6	-15.175		PASS
	11	-16.047		PASS
IEEE 802.11n_40	3	-20.116		PASS
	6	-18.868		PASS
	9	-19.649		PASS

Test Graphs





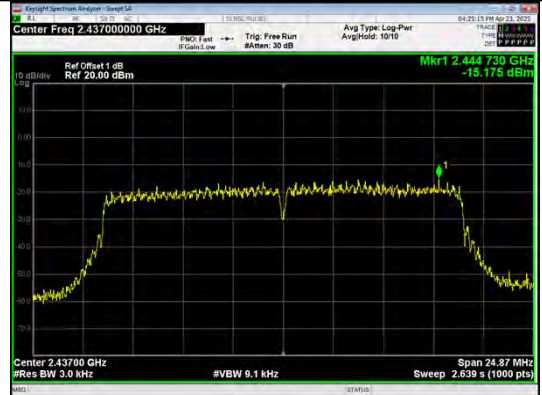
IEEE 802.11g_Channel 6_20MHz_Antenna 0



IEEE 802.11g_Channel 11_20MHz_Antenna 0



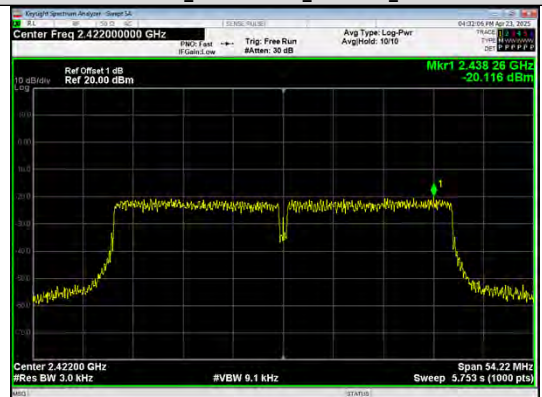
IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11g_Channel 6_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



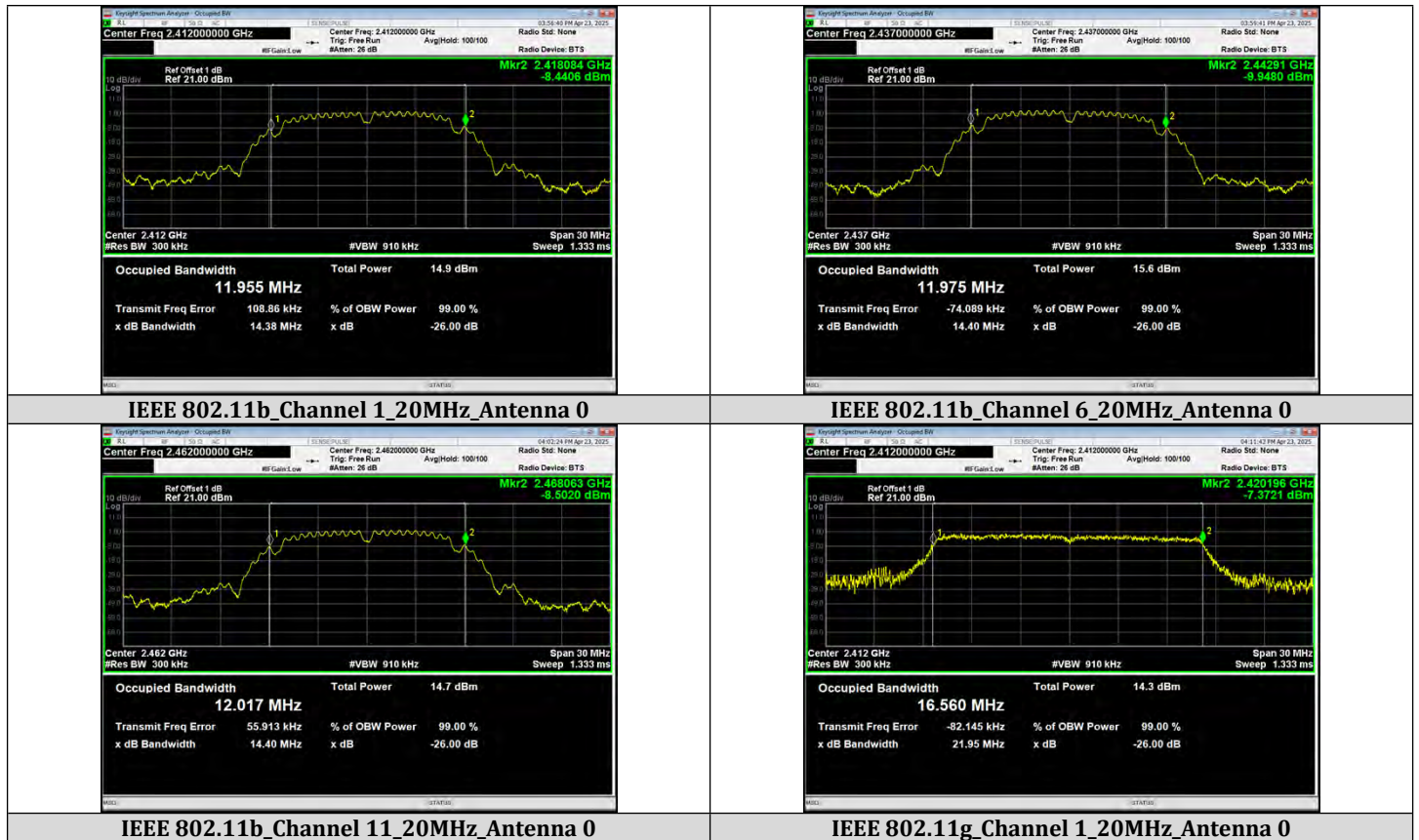
IEEE 802.11n_Channel 3_40MHz_Antenna 0

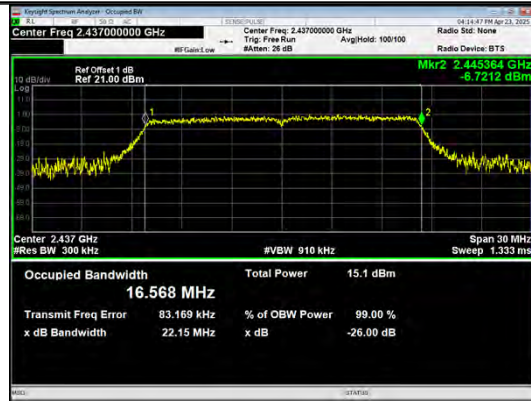
IEEE 802.11n_Channel 6_40MHz_Antenna 0

IEEE 802.11n_Channel 9_40MHz_Antenna 0

**99% Bandwidth****Test Result**

Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11b	1	0	2412	11.955
	6		2437	11.975
	11		2462	12.017
IEEE 802.11g	1		2412	16.560
	6		2437	16.568
	11		2462	16.594
IEEE 802.11n_20	1		2412	17.611
	6		2437	17.595
	11		2462	17.629
IEEE 802.11n_40	3		2422	36.402
	6		2437	36.050
	9		2452	35.808

Test Graphs



IEEE 802.11g_Channel 6_20MHz_Antenna 0



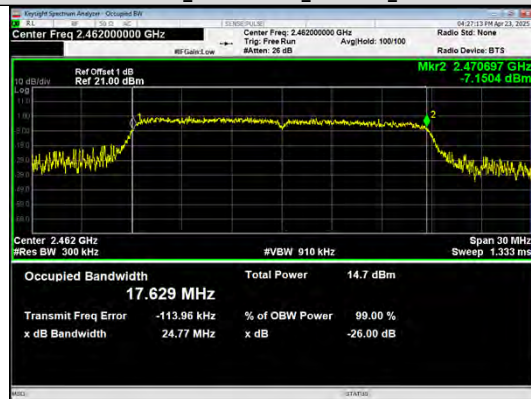
IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0



IEEE 802.11n_Channel 6_20MHz_Antenna 0



IEEE 802.11n_Channel 11_20MHz_Antenna 0



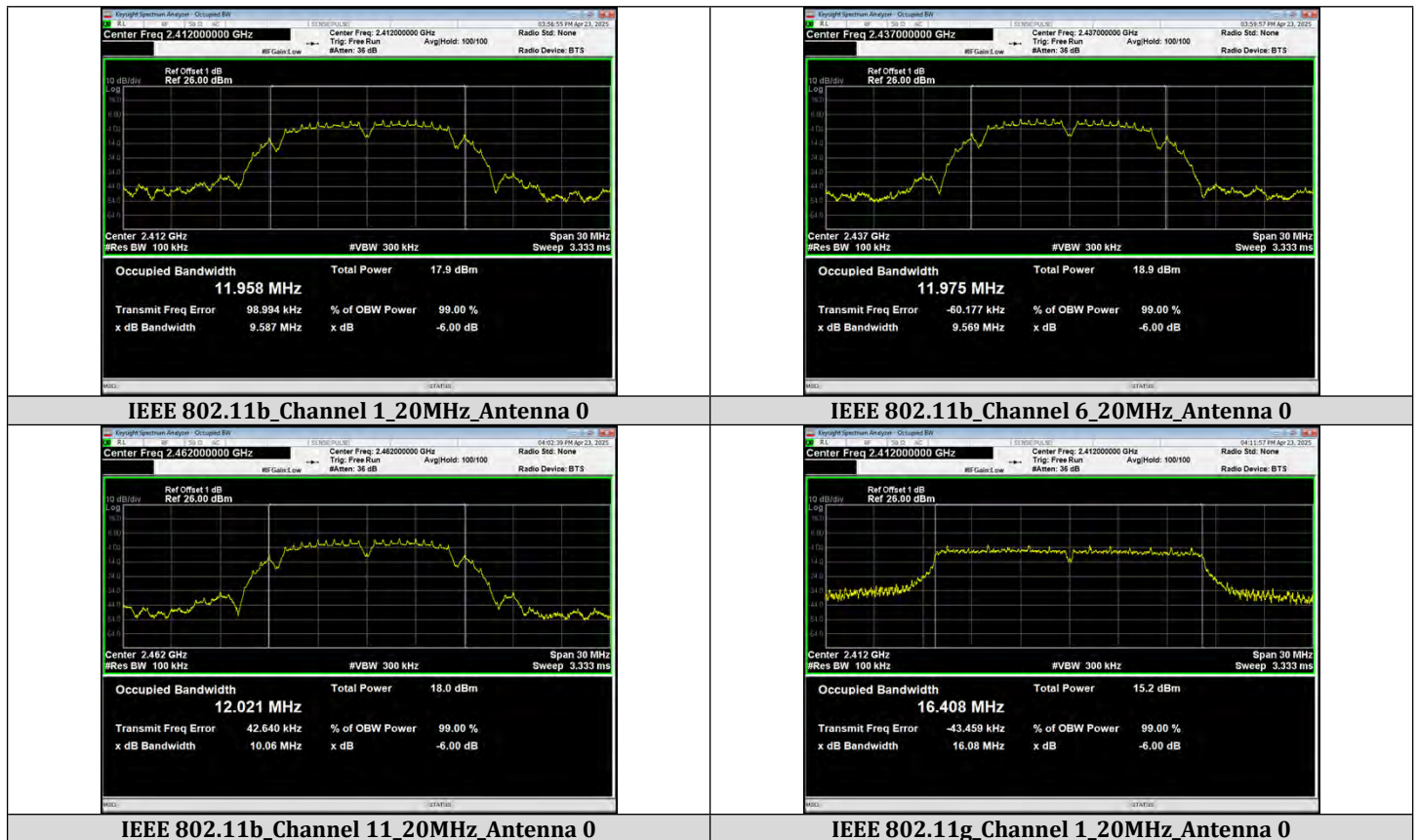
IEEE 802.11n_Channel 6_40MHz_Antenna 0

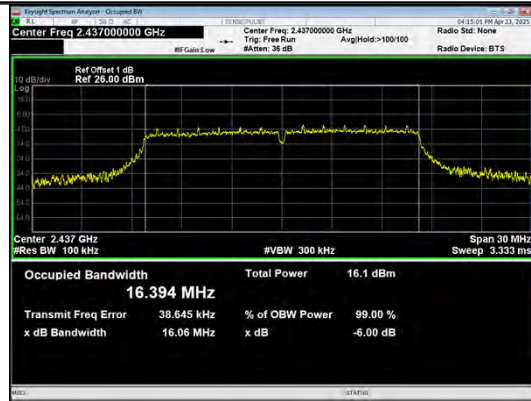


IEEE 802.11n_Channel 9_40MHz_Antenna 0

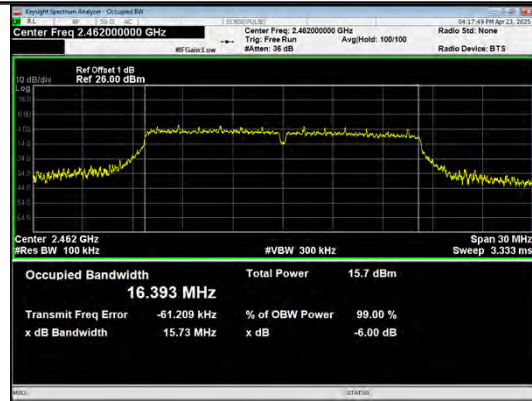
**6dB Bandwidth****Test Result**

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	9.587	≥0.5	PASS
	6		2437	9.569		PASS
	11		2462	10.06		PASS
IEEE 802.11g	1		2412	16.08		PASS
	6		2437	16.06		PASS
	11		2462	15.73		PASS
IEEE 802.11n_20	1		2412	16.42		PASS
	6		2437	16.58		PASS
	11		2462	16.16		PASS
IEEE 802.11n_40	3		2422	36.15		PASS
	6		2437	35.33		PASS
	9		2452	35.07		PASS

Test Graphs



IEEE 802.11g_Channel 6_20MHz_Antenna 0



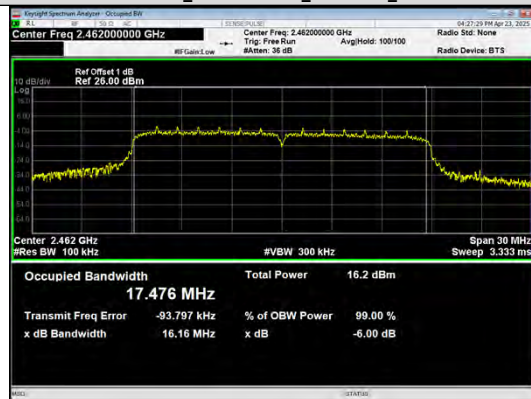
IEEE 802.11g_Channel 11_20MHz_Antenna 0



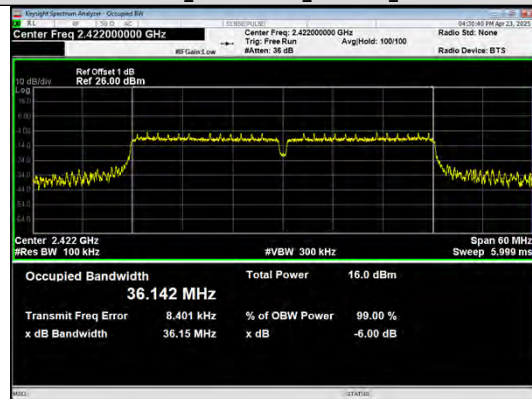
IEEE 802.11n_Channel 1_20MHz_Antenna 0



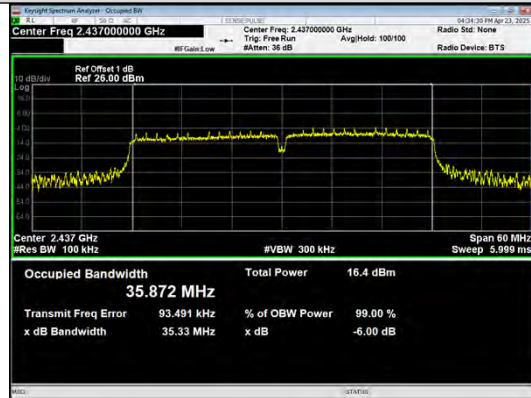
IEEE 802.11n_Channel 6_20MHz_Antenna 0



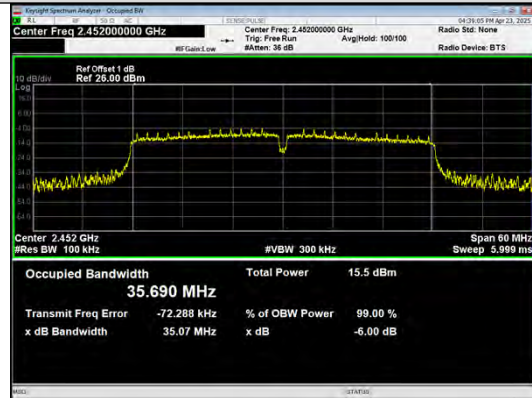
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0



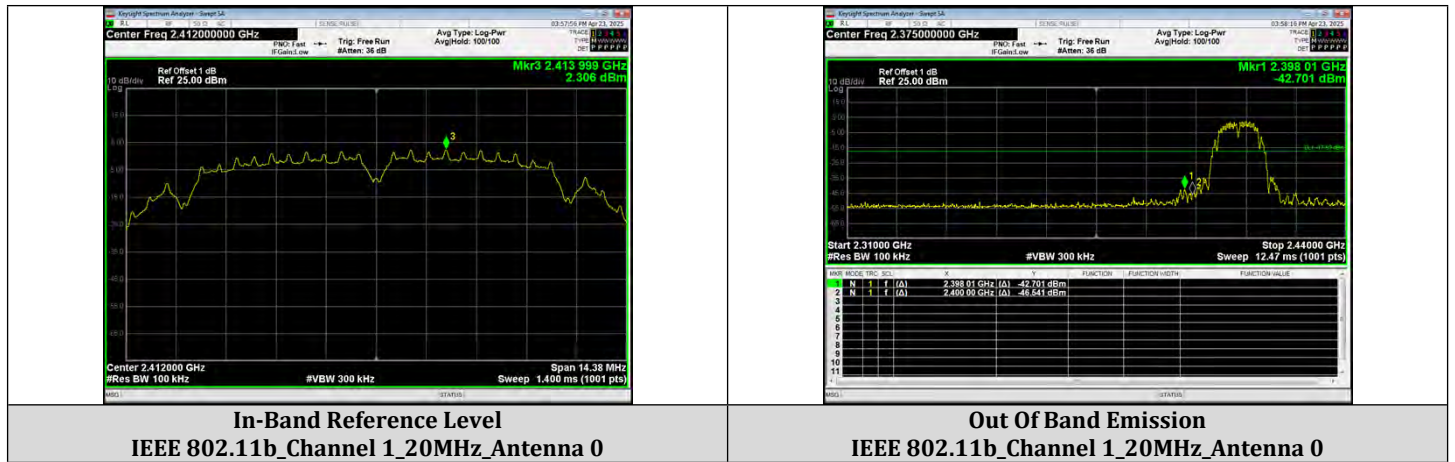
IEEE 802.11n_Channel 9_40MHz_Antenna 0

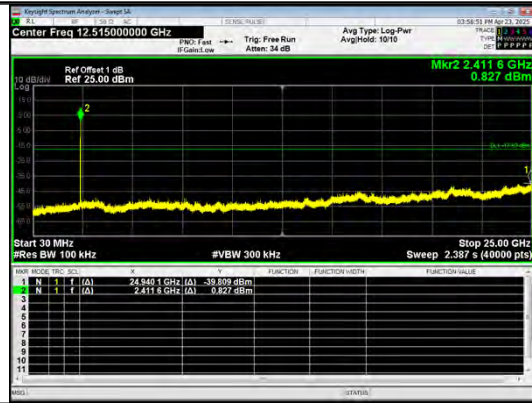
Conducted Out Of Band Emission

Test Result

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result		
IEEE 802.11b	1	0	2398.01	-42.700	-17.69	-25.010	PASS		
			2400.00	-46.541	-17.69	-28.851	PASS		
			24940.1	-39.809	-17.69	-22.119	PASS		
	6		24976.3	-40.031	-16.78	-23.251	PASS		
			11	2483.50	-52.630	-17.84	-34.790	PASS	
				24455.6	-40.014	-17.84	-22.174	PASS	
IEEE 802.11g	1			2400.00	-32.222	-22.02	-10.202	PASS	
			24864.5	-40.495	-22.02	-18.475	PASS		
			24940.1	-40.117	-21.07	-19.047	PASS		
	6		2483.50	-48.416	-20.85	-27.566	PASS		
			11	24978.8	-40.518	-20.85	-19.668	PASS	
				2400.00	-31.132	-22.2	-8.932	PASS	
IEEE 802.11n_20	1			24945.7	-39.883	-22.2	-17.683	PASS	
			6	24961.3	-39.557	-21.01	-18.547	PASS	
				11	2483.50	-45.931	-20.84	-25.091	PASS
	IEEE 802.11n_40				3	24941.9	-39.356	-20.84	-18.516
			2397.62			-30.374	-24.85	-5.524	PASS
			2400.00	-34.070		-24.85	-9.220	PASS	
6			24976.9	-38.839	-24.85	-13.989	PASS		
			9	24918.2	-40.068	-23.32	-16.748	PASS	
				2483.50	-42.488	-24.16	-18.328	PASS	
				24956.3	-40.418	-24.16	-16.258	PASS	

Test Graphs

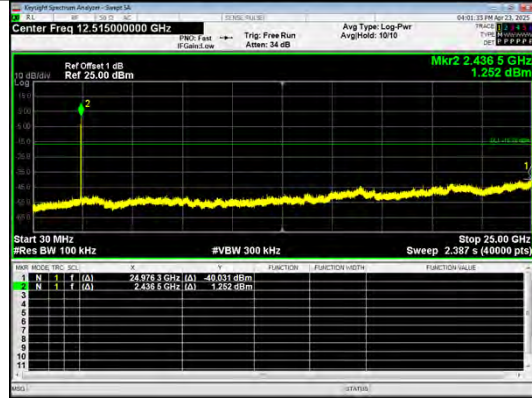




30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 1_20MHz_Antenna 0



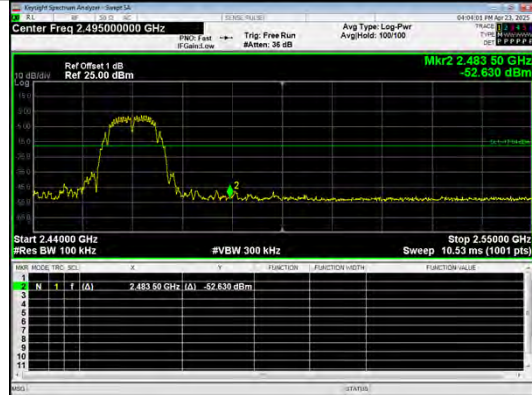
In-Band Reference Level
IEEE 802.11b_Channel 6_20MHz_Antenna 0



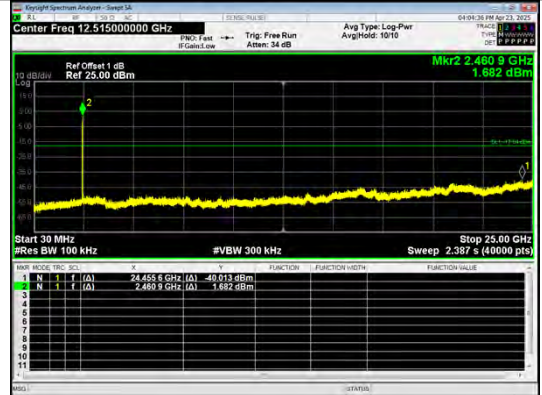
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 6_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0



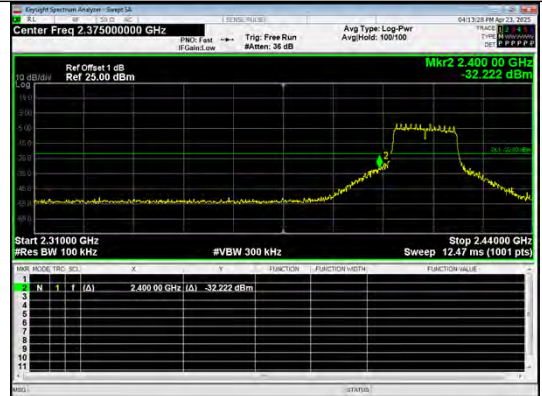
Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0



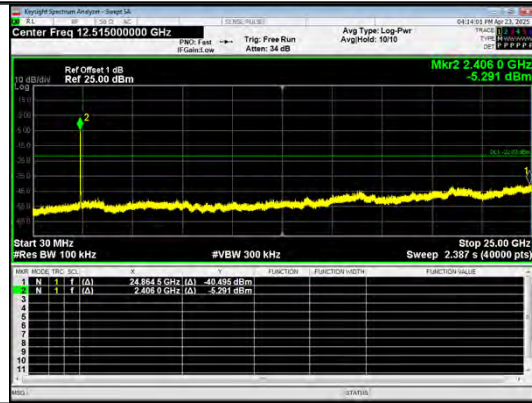
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0



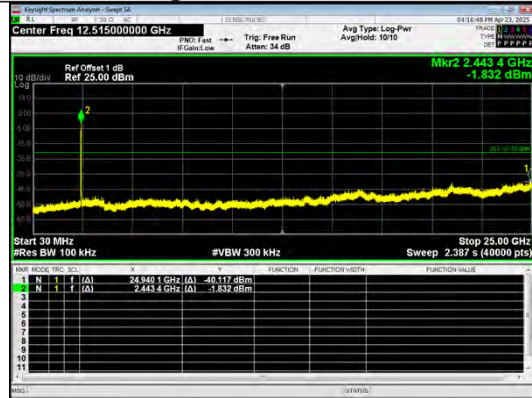
Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 1_20MHz_Antenna 0



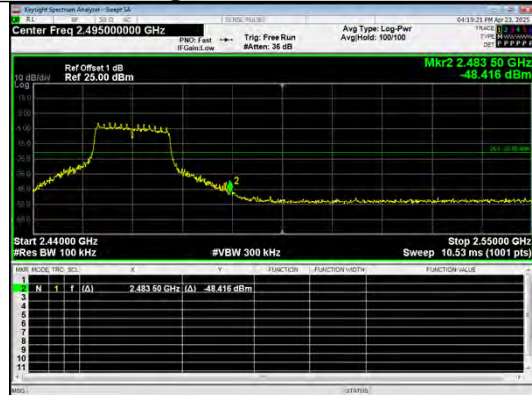
In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0



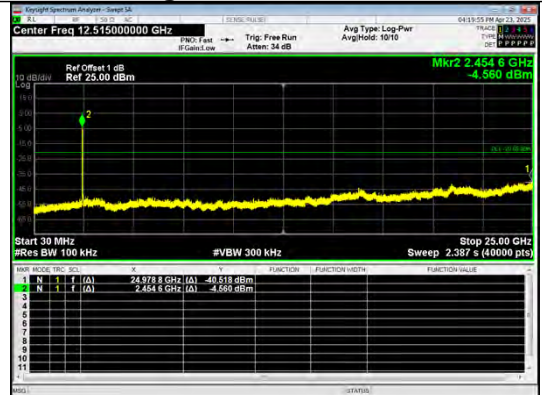
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IEEE 802.11g_Channel 6_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11g_Channel 11_20MHz_Antenna 0



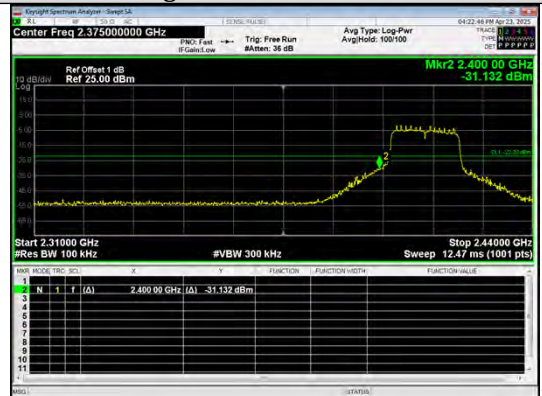
Out Of Band Emission
IEEE 802.11g_Channel 11_20MHz_Antenna 0



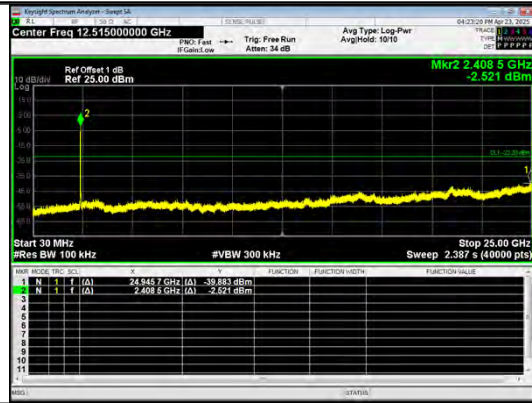
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 11_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11n_Channel 1_20MHz_Antenna 0



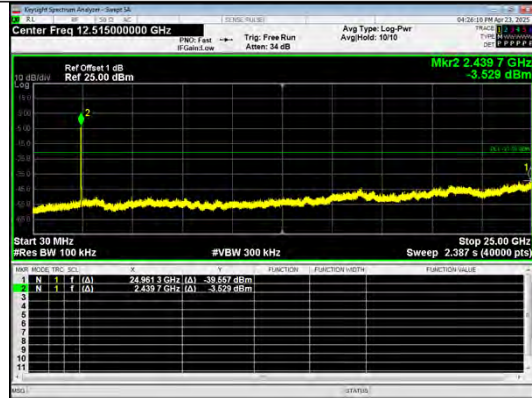
Out Of Band Emission
IEEE 802.11n_Channel 1_20MHz_Antenna 0



30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 1_20MHz_Antenna 0



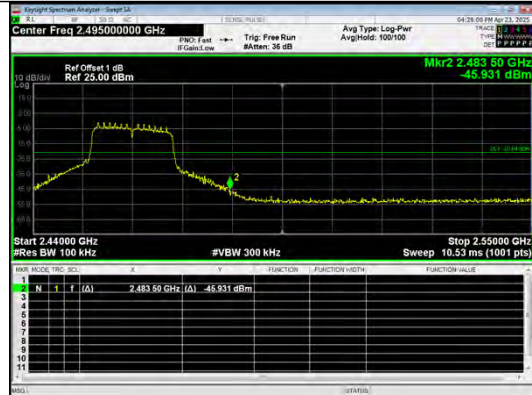
In-Band Reference Level
IEEE 802.11n_Channel 6_20MHz_Antenna 0



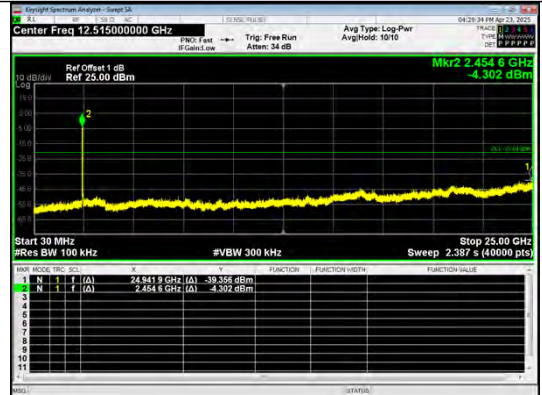
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11n_Channel 11_20MHz_Antenna 0



Out Of Band Emission
IEEE 802.11n_Channel 11_20MHz_Antenna 0



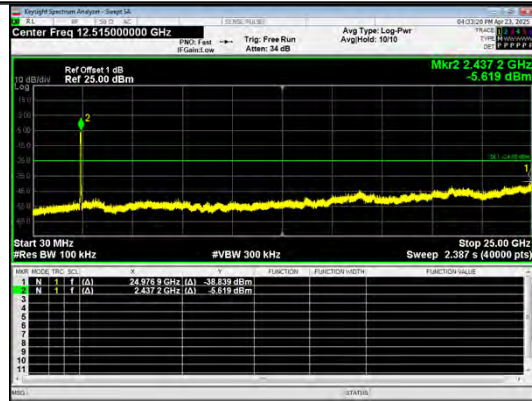
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 11_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11n_Channel 3_40MHz_Antenna 0



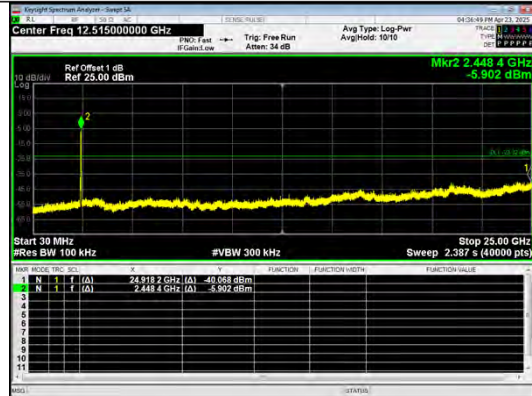
Out Of Band Emission
IEEE 802.11n_Channel 3_40MHz_Antenna 0



30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 3_40MHz_Antenna 0



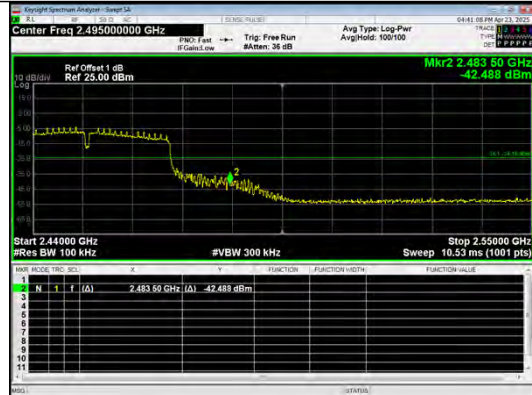
In-Band Reference Level
IEEE 802.11n_Channel 6_40MHz_Antenna 0



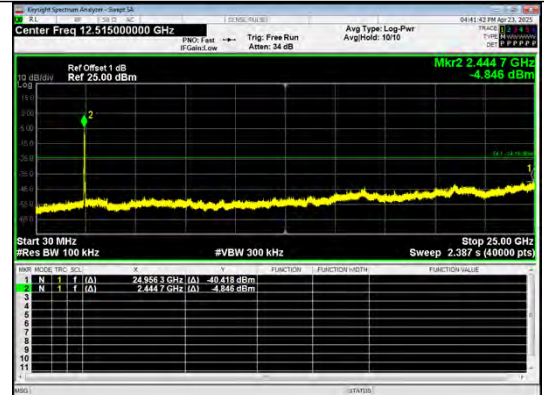
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_40MHz_Antenna 0



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

***** End of Report *****