

Conducted Test Data

Conducted Output Power

Test Result

Mode	Channel	Peak Output Power (dBm)	Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Result
IEEE 802.11b	1	12.75	≤30	10.68	≤36	PASS
	6	11.23	≤30	9.16	≤36	PASS
	11	12.48	≤30	10.41	≤36	PASS
IEEE 802.11g	1	15.24	≤30	13.17	≤36	PASS
	6	14.39	≤30	12.32	≤36	PASS
	11	15.49	≤30	13.42	≤36	PASS
IEEE 802.11n_20	1	15.94	≤30	13.87	≤36	PASS
	6	15.79	≤30	13.72	≤36	PASS
	11	16.08	≤30	14.01	≤36	PASS
IEEE 802.11n_40	3	16.99	≤30	14.92	≤36	PASS
	6	16.96	≤30	14.89	≤36	PASS
	9	17.40	≤30	15.33	≤36	PASS

Note: $EIRP = P_{out} + G_{ant}$, and $G_{ant} = 2.07$ dBi.

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	12.433	12.462	99.76	0.9976	0.0104	0.0804
		6		12.432	12.462	99.76	0.9976	0.0104	0.0804
		11		12.432	12.462	99.76	0.9976	0.0104	0.0804
IEEE 802.11g	6	1		2.069	2.191	94.43	0.9443	0.2489	0.4833
		6		2.069	2.102	98.43	0.9843	0.0687	0.4833
		11		2.069	2.208	93.70	0.9370	0.2826	0.4833
IEEE 802.11n_20	MCS 0	1		1.930	1.962	98.37	0.9837	0.0714	0.5181
		6		1.930	2.079	92.83	0.9283	0.3231	0.5181
		11		1.929	1.962	98.32	0.9832	0.0736	0.5184
IEEE 802.11n_40		3		0.952	1.099	86.67	0.8667	0.6213	1.0504
		6		0.951	1.093	87.08	0.8708	0.6008	1.0515
		9		0.953	1.059	89.98	0.8998	0.4585	1.0493

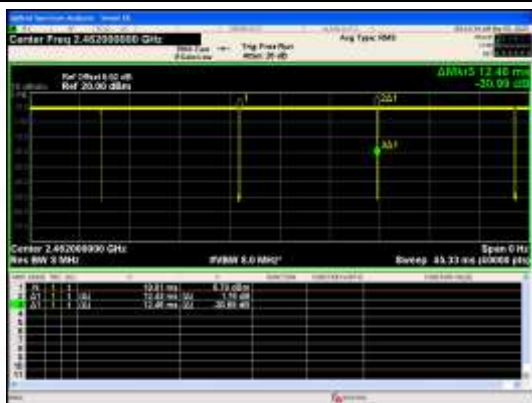
Test Graphs



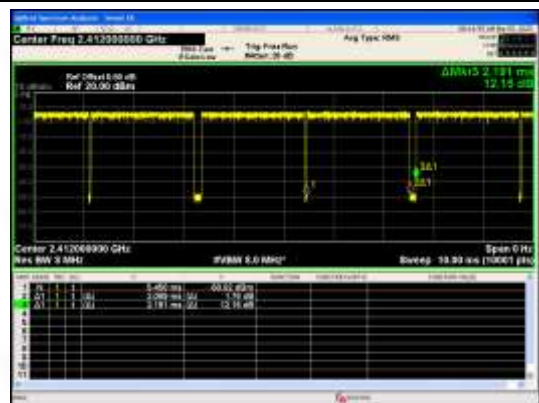
IEEE 802.11b_20MHz_Channel 1



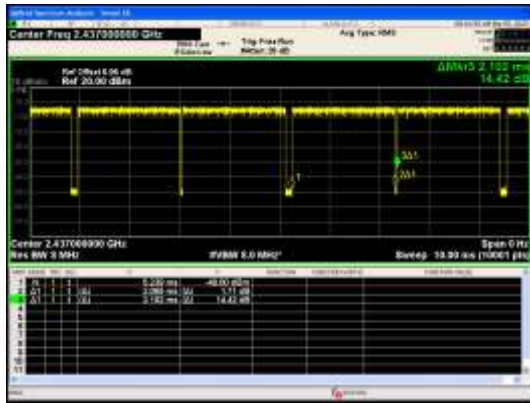
IEEE 802.11b_20MHz_Channel 6



IEEE 802.11b_20MHz_Channel 11



IEEE 802.11g_20MHz_Channel 1



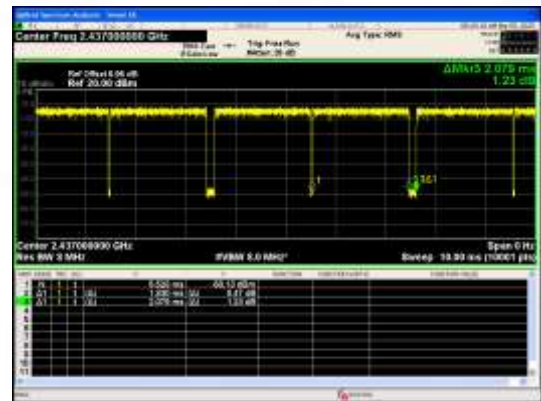
IEEE 802.11g_20MHz_Channel 6



IEEE 802.11g_20MHz_Channel 11



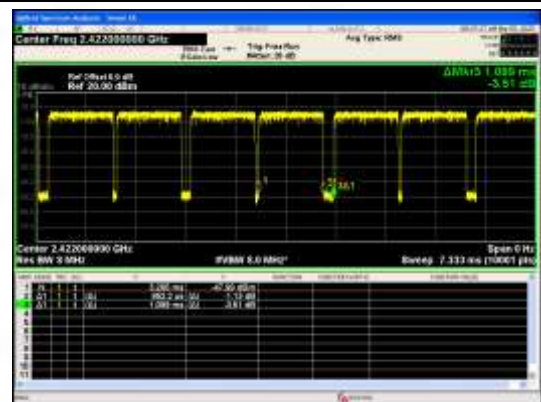
IEEE 802.11n_20MHz_Channel 1



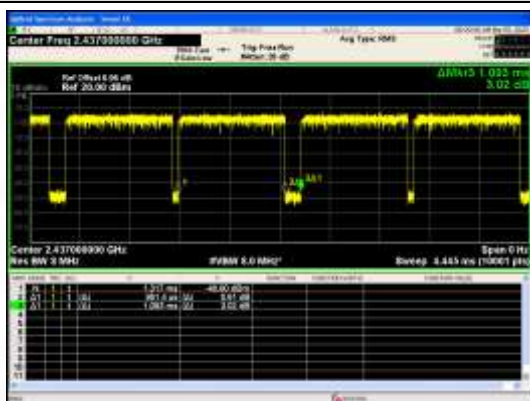
IEEE 802.11n_20MHz_Channel 6



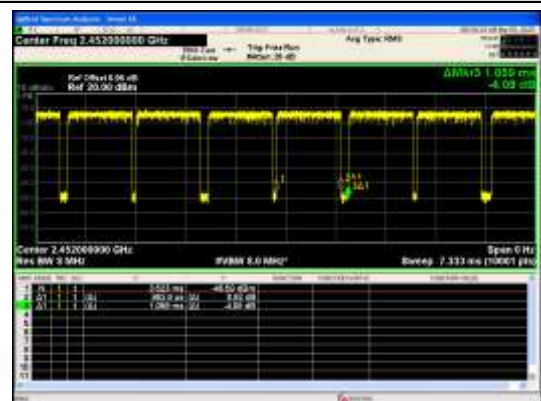
IEEE 802.11n_20MHz_Channel 11



IEEE 802.11n_40MHz_Channel 3



IEEE 802.11n_40MHz_Channel 6



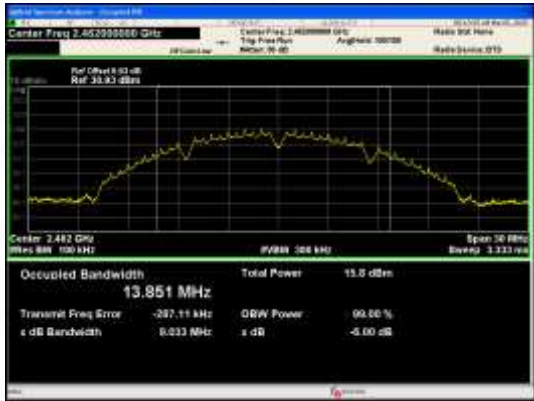
IEEE 802.11n_40MHz_Channel 9

6dB Bandwidth

Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	9.045	≥0.5	PASS
	6		2437	8.090		PASS
	11		2462	9.033		PASS
IEEE 802.11g	1		2412	15.71		PASS
	6		2437	15.80		PASS
	11		2462	15.71		PASS
IEEE 802.11n_20	1		2412	16.30		PASS
	6		2437	17.51		PASS
	11		2462	16.32		PASS
IEEE 802.11n_40	3		2422	35.02		PASS
	6		2437	36.33		PASS
	9		2452	35.04		PASS

Test Graphs

 Center Freq 2.41200000 GHz Center Freq 2.41200000 GHz Ref Offset 0.00 dB Ref 33.93 dBm Center 2.412 GHz Span 30 MHz Occupied Bandwidth 14.020 MHz Total Power 18.8 dBm Transmit Freq Error 303.70 kHz dB Bandwidth 0.945 MHz GBW Power 99.00 % dB -5.00 dB	 Center Freq 2.43700000 GHz Center Freq 2.43700000 GHz Ref Offset 0.00 dB Ref 33.93 dBm Center 2.437 GHz Span 30 MHz Occupied Bandwidth 14.178 MHz Total Power 14.0 dBm Transmit Freq Error 66.166 kHz dB Bandwidth 0.098 MHz GBW Power 99.00 % dB -5.00 dB
IEEE 802.11b_Channel 1_20MHz_Antenna 0	IEEE 802.11b_Channel 6_20MHz_Antenna 0
 Center Freq 2.46200000 GHz Center Freq 2.46200000 GHz Ref Offset 0.00 dB Ref 33.93 dBm Center 2.462 GHz Span 30 MHz Occupied Bandwidth 13.851 MHz Total Power 15.0 dBm Transmit Freq Error -287.11 kHz dB Bandwidth 0.233 MHz GBW Power 99.00 % dB -5.00 dB	 Center Freq 2.41200000 GHz Center Freq 2.41200000 GHz Ref Offset 0.00 dB Ref 33.93 dBm Center 2.412 GHz Span 30 MHz Occupied Bandwidth 16.517 MHz Total Power 14.7 dBm Transmit Freq Error 79.565 kHz dB Bandwidth 15.71 MHz GBW Power 99.00 % dB -5.00 dB
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



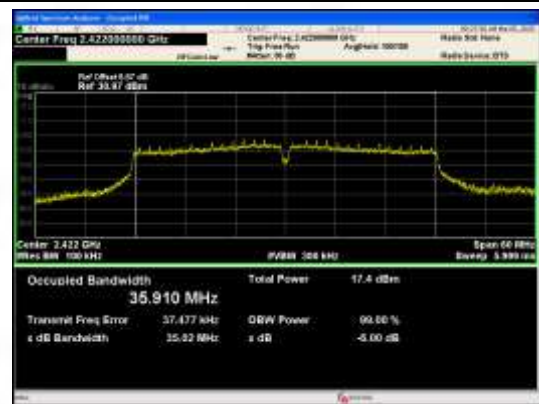
IEEE 802.11n_Channel 1_20MHz_Antenna 0



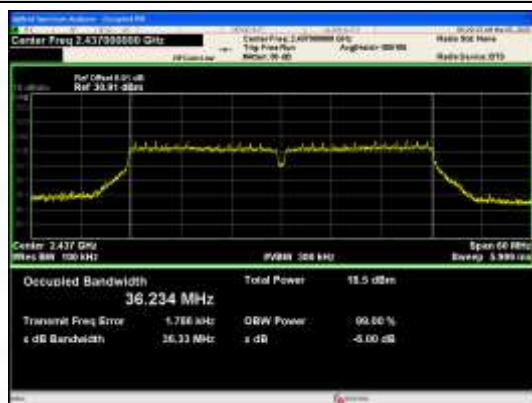
IEEE 802.11n_Channel 6_20MHz_Antenna 0



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

99% Bandwidth

Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11b	1	0	2412	13.986
	6		2437	14.172
	11		2462	13.825
IEEE 802.11g	1		2412	16.724
	6		2437	16.781
	11		2462	16.675
IEEE 802.11n_20	1		2412	17.888
	6		2437	18.042
	11		2462	17.887
IEEE 802.11n_40	3		2422	36.009
	6		2437	36.424
	9		2452	35.941

Test Graphs



IEEE 802.11b_Channel 1_20MHz_Antenna 0



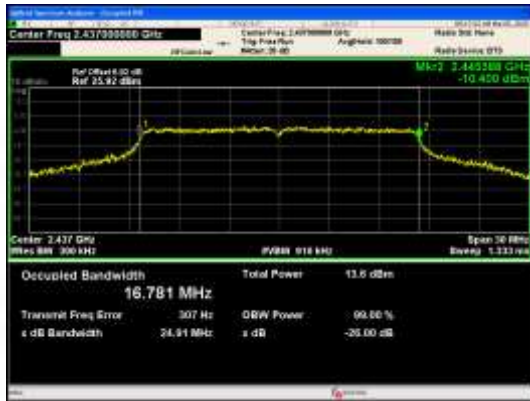
IEEE 802.11b_Channel 6_20MHz_Antenna 0



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

Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	1.990	≤8	PASS
	6	-11.516		PASS
	11	4.163		PASS
IEEE 802.11g	1	-15.832		PASS
	6	-17.217		PASS
	11	-16.063		PASS
IEEE 802.11n_20	1	-15.154		PASS
	6	-16.636		PASS
	11	-14.847		PASS
IEEE 802.11n_40	3	-15.452		PASS
	6	-16.546		PASS
	9	-16.199		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

Conducted Out Of Band Emission

Note:The maximum loss of the test system for testing at 30MHz-26.5GHz is 17.2dB. The offset on the test chart is the offset of the main frequency, and the margin is sufficient to offset the difference between the maximum loss of the system and the offset of the main frequency.

Test Result

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2396.97	-39.143	-14.28	-24.863	PASS
			2400.00	-45.402	-14.28	-31.122	PASS
			4824.20	-55.056	-14.28	-40.776	PASS
			7236.30	-55.042	-14.28	-40.762	PASS
			9644.10	-55.574	-14.28	-41.294	PASS
	24814.0		-44.618	-14.28	-30.338	PASS	
	6		4876.05	-55.849	-16.55	-39.299	PASS
			7300.02	-56.711	-16.55	-40.161	PASS
			9760.18	-56.711	-16.55	-40.161	PASS
			24671.0	-44.906	-16.55	-28.356	PASS
			2483.50	-46.671	-15.08	-31.591	PASS
	11		4940.97	-56.542	-15.08	-41.462	PASS
			7396.15	-56.468	-15.08	-41.388	PASS
			9839.46	-57.721	-15.08	-42.641	PASS
			24833.9	-44.681	-15.08	-29.601	PASS
2400.00			-28.671	-17.78	-10.891	PASS	
IEEE 802.11g	1		4823.62	-56.191	-17.78	-38.411	PASS
			7245.71	-56.190	-17.78	-38.410	PASS
			9634.71	-55.529	-17.78	-37.749	PASS
			24696.6	-44.963	-17.78	-27.183	PASS
			4881.67	-56.027	-19.16	-36.867	PASS
	6		7291.28	-56.133	-19.16	-36.973	PASS
			9743.33	-57.263	-19.16	-38.103	PASS
			24785.9	-44.590	-19.16	-25.430	PASS
			2483.50	-46.186	-18.57	-27.616	PASS
			4905.39	-56.549	-18.57	-37.979	PASS
	11		7390.53	-56.795	-18.57	-38.225	PASS
			9831.35	-57.246	-18.57	-38.676	PASS
			24715.3	-45.498	-18.57	-26.928	PASS
			2400.00	-28.610	-18.66	-9.950	PASS
			4828.61	-54.797	-18.66	-36.137	PASS
IEEE 802.11n_20	1		7227.60	-56.566	-18.66	-37.906	PASS
			9657.81	-56.633	-18.66	-37.973	PASS

	6	24633.6	-45.283	-18.66	-26.623	PASS
		4864.82	-56.514	-19.24	-37.274	PASS
		7309.38	-55.641	-19.24	-36.401	PASS
		9760.18	-56.404	-19.24	-37.164	PASS
		24655.4	-44.491	-19.24	-25.251	PASS
	11	2483.50	-46.060	-18.63	-27.430	PASS
		4934.73	-55.351	-18.63	-36.721	PASS
		7384.29	-55.924	-18.63	-37.294	PASS
		9838.22	-57.391	-18.63	-38.761	PASS
		24046.8	-44.292	-18.63	-25.662	PASS
		2396.97	-34.705	-20.65	-14.055	PASS
IEEE 802.11n_40	3	2400.00	-36.600	-20.65	-15.950	PASS
		4869.80	-56.126	-20.65	-35.476	PASS
		7233.80	-55.867	-20.65	-35.217	PASS
		9650.30	-56.090	-20.65	-35.440	PASS
		24426.3	-44.663	-20.65	-24.013	PASS
		4877.93	-55.787	-21.38	-34.407	PASS
	6	7330.60	-55.630	-21.38	-34.250	PASS
		9764.55	-56.750	-21.38	-35.370	PASS
		24975.0	-45.141	-21.38	-23.761	PASS
		2483.50	-41.174	-19.75	-21.424	PASS
	9	4939.10	-56.244	-19.75	-36.494	PASS
		7338.72	-56.512	-19.75	-36.762	PASS
		9788.28	-56.820	-19.75	-37.070	PASS
		24678.5	-44.483	-19.75	-24.733	PASS

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



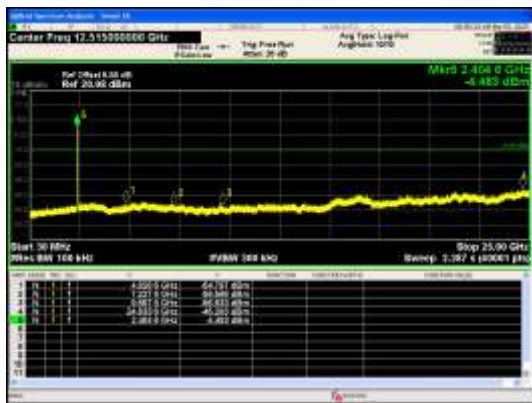
In-Band Reference Level IEEE 802.11g_Channel 1_20MHz_Antenna 0	Out Of Band Emission IEEE 802.11g_Channel 1_20MHz_Antenna 0
	
30.0 MHz - 25000.0 MHz IEEE 802.11g_Channel 1_20MHz_Antenna 0	In-Band Reference Level IEEE 802.11g_Channel 6_20MHz_Antenna 0
	
30.0 MHz - 25000.0 MHz IEEE 802.11g_Channel 6_20MHz_Antenna 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



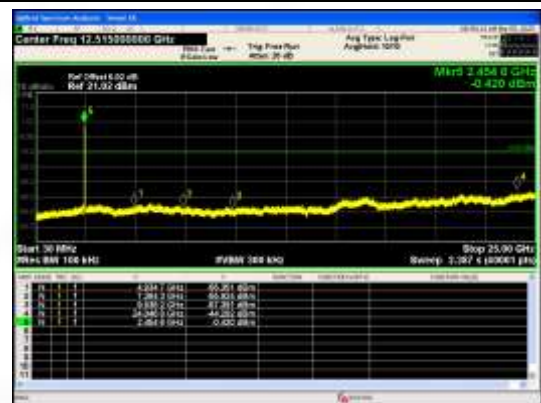
In-Band Reference Level
IEEE 802.11n_Channel 6_20MHz_Antenna 0

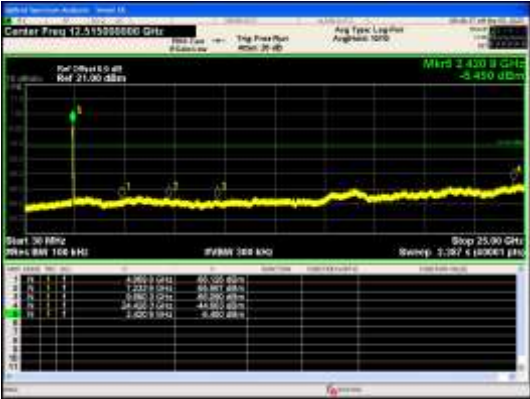
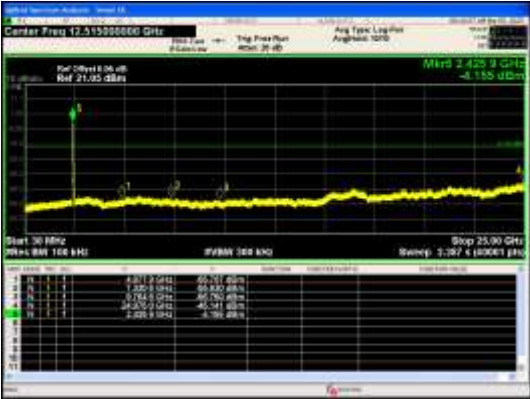
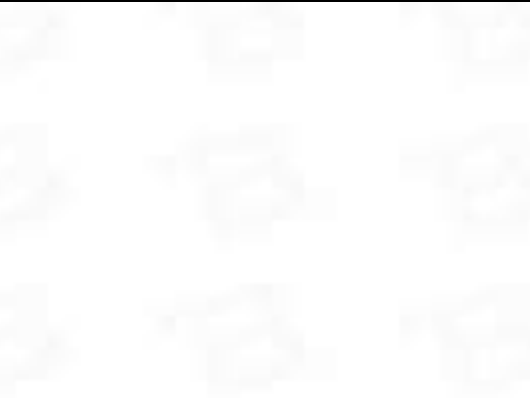


30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_20MHz_Antenna 0



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 APPENDIX*****