4. Maximum conducted output power and e.i.r.p

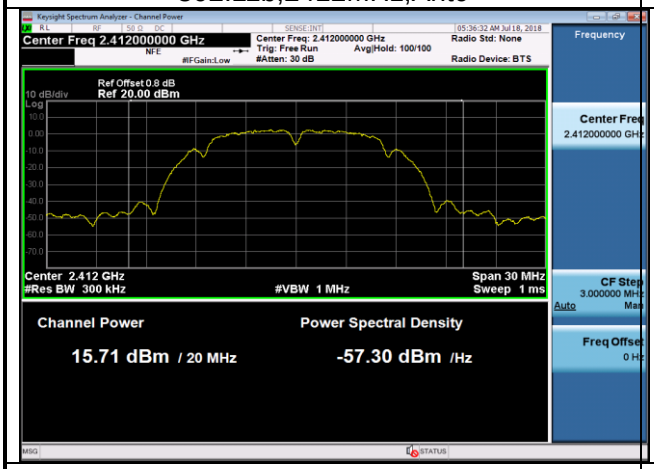
4.1 Test Data

WLAN AVGSA Output Power							
Mode	Test Frequency (MHz)	Ant	Duty Cycle Factor (dB)	Max Power (dBm)	Limit (dBm)	EIRP (dBm)	Result
802.11b	2412	Ant0	0.10	15.81	30	17.81	Pass
802.11b	2437	Ant0	0.10	14.79	30	16.79	Pass
802.11b	2462	Ant0	0.10	14.44	30	16.44	Pass
802.11g	2412	Ant0	0.57	15.65	30	17.65	Pass
802.11g	2437	Ant0	0.57	15.09	30	17.09	Pass
802.11g	2462	Ant0	0.57	13.55	30	15.55	Pass
802.11n (HT20)	2412	Ant0	3.38	14.06	30	16.06	Pass
802.11n (HT20)	2437	Ant0	3.38	13.31	30	15.31	Pass
802.11n (HT20)	2462	Ant0	0.60	12.88	30	14.88	Pass
802.11n (HT40)	2422	Ant0	1.13	12.39	30	14.39	Pass
802.11n (HT40)	2437	Ant0	1.13	12.78	30	14.78	Pass
802.11n (HT40)	2452	Ant0	1.13	11.76	30	13.76	Pass

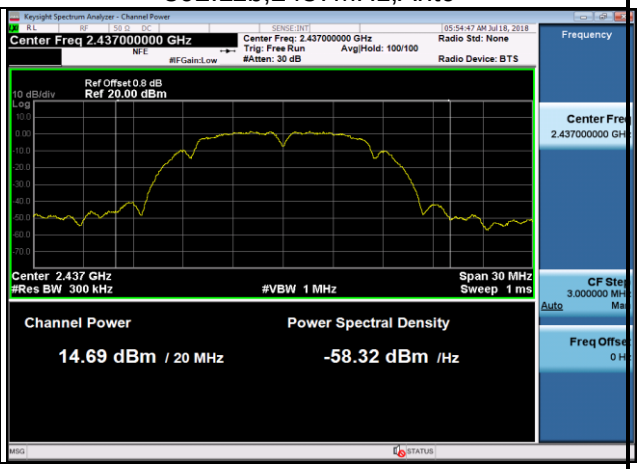
Max conducted output power (dBm)	Max antenna gain (dBi)	Max e.i.r.p. (W)	Limit (W)	Result
15.81	2	0.060	4	Pass

4.2 Test Plots

802.11b,2412MHz,Ant0



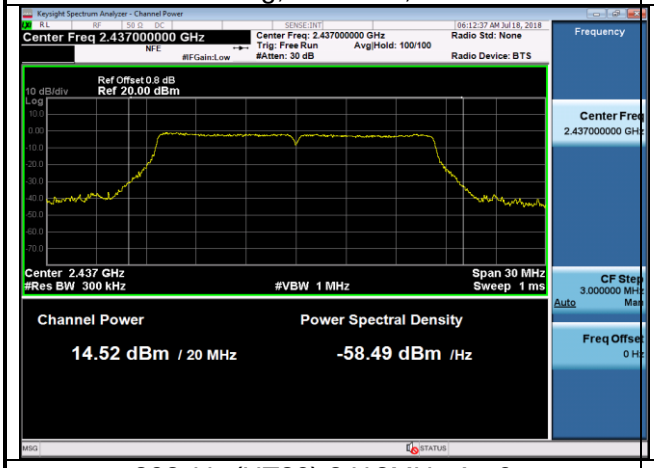
802.11b,2437MHz,Ant0



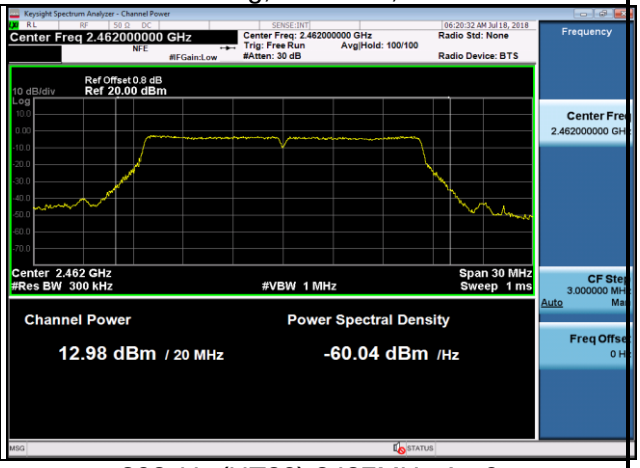
802.11b,2462MHz,Ant0

802.11g,2412MHz,Ant0

802.11g,2437MHz,Ant0



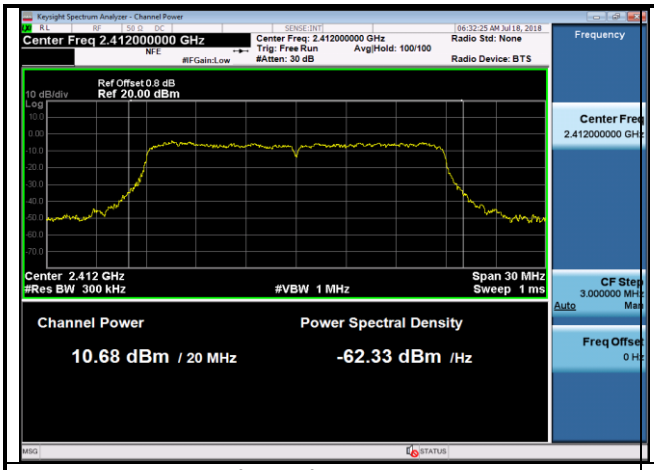
802.11g,2462MHz,Ant0



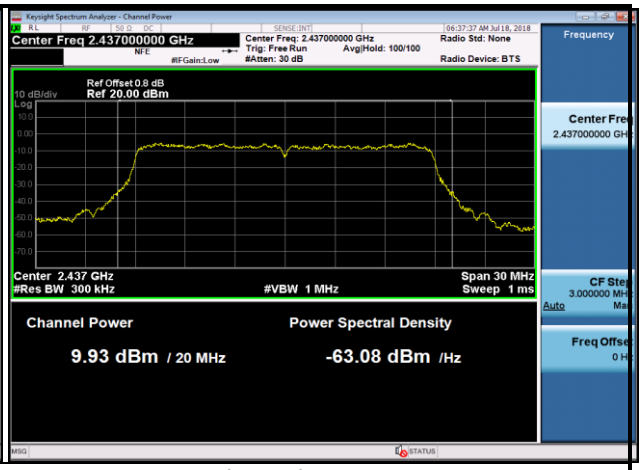
802.11n(HT20),2412MHz,Ant0

802.11n(HT20),2437MHz,Ant0

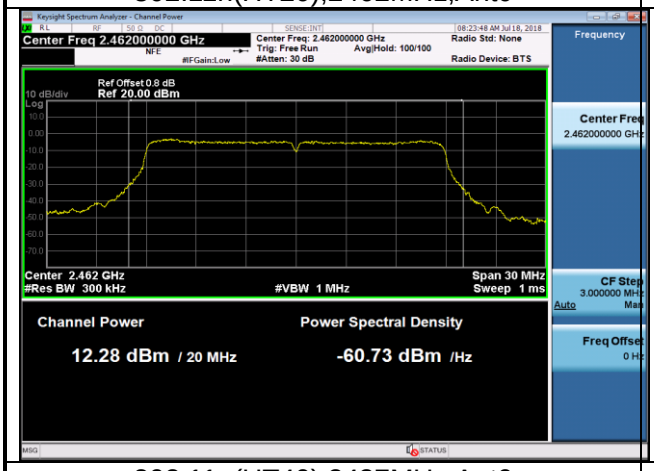
TEST REPORT



802.11n(HT20),2462MHz,Ant0

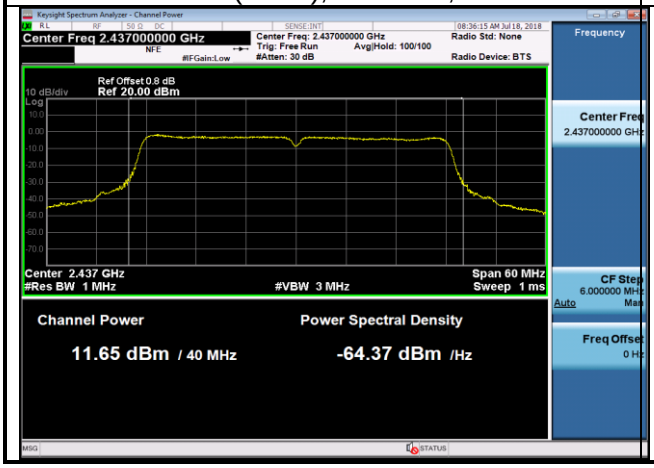


802.11n(HT40),2422MHz,Ant0



802.11n(HT40),2437MHz,Ant0

802.11n(HT40),2452MHz,Ant0



5. Power spectrum density

5.1 Test Data

WLAN AVGSA Power Spectral Density							
Mode	Test Frequency (MHz)	Ant	Duty Cycle Factor (dB)	PSD (dBm)	RBW (kHz)	Limit (dBm)	Result
802.11b	2412	Ant0	0.10	-1.769	100	8	Pass
802.11b	2437	Ant0	0.10	-2.832	100	8	Pass
802.11b	2462	Ant0	0.10	-3.016	100	8	Pass
802.11g	2412	Ant0	0.57	-3.454	100	8	Pass
802.11g	2437	Ant0	0.57	-4.056	100	8	Pass
802.11g	2462	Ant0	0.57	-4.831	100	8	Pass
802.11n (HT20)	2412	Ant0	3.38	-3.844	100	8	Pass
802.11n (HT20)	2437	Ant0	3.38	-5.707	100	8	Pass
802.11n (HT20)	2462	Ant0	0.60	-6.785	100	8	Pass
802.11n (HT40)	2422	Ant0	1.13	-10.187	100	8	Pass
802.11n (HT40)	2437	Ant0	1.13	-9.025	100	8	Pass
802.11n (HT40)	2452	Ant0	1.13	-10.551	100	8	Pass

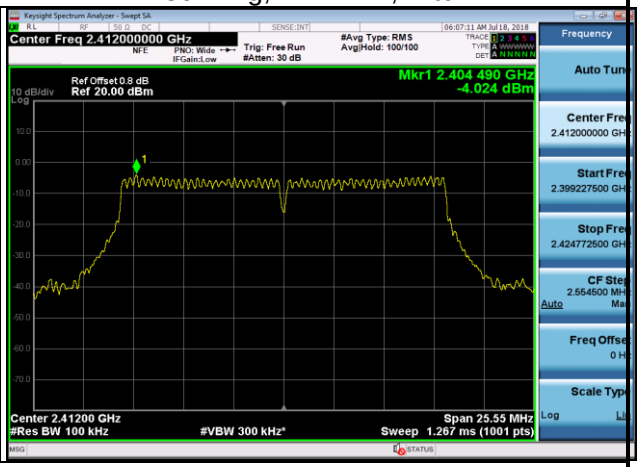
5.2 Test Plots

802.11b,2412MHz,Ant0

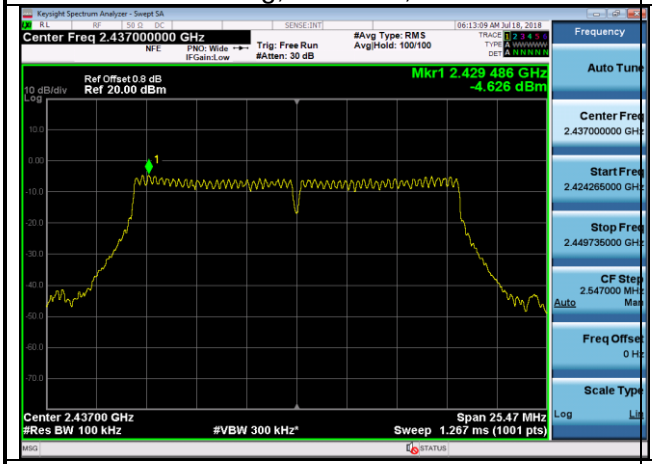
802.11b,2437MHz,Ant0

802.11b,2462MHz,Ant0

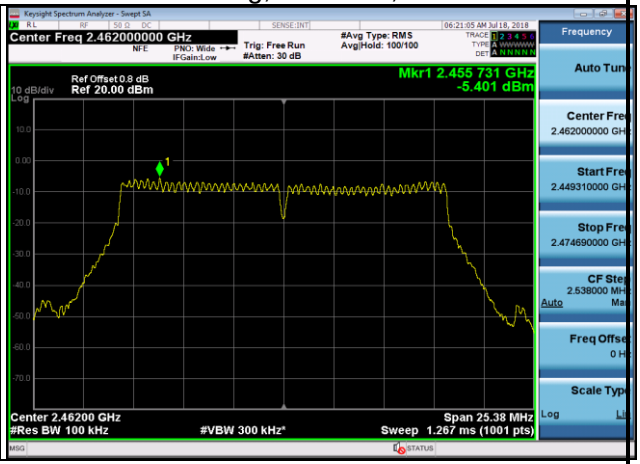
802.11g,2412MHz,Ant0



802.11g,2437MHz,Ant0



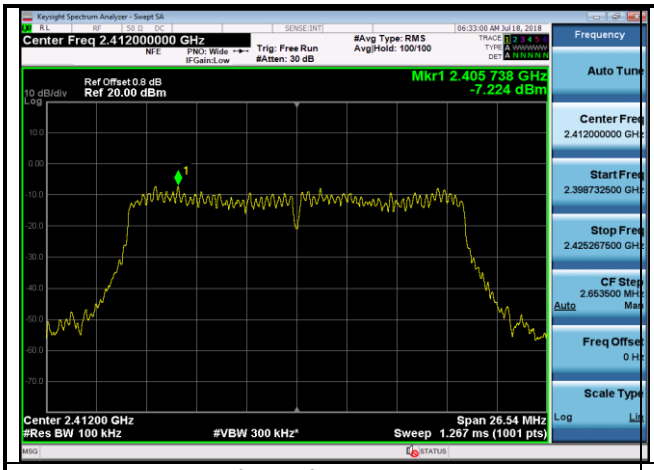
802.11g,2462MHz,Ant0



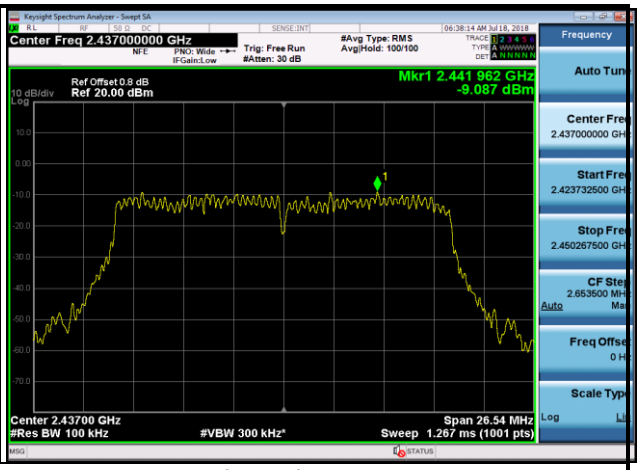
802.11n(HT20),2412MHz,Ant0

802.11n(HT20),2437MHz,Ant0

TEST REPORT

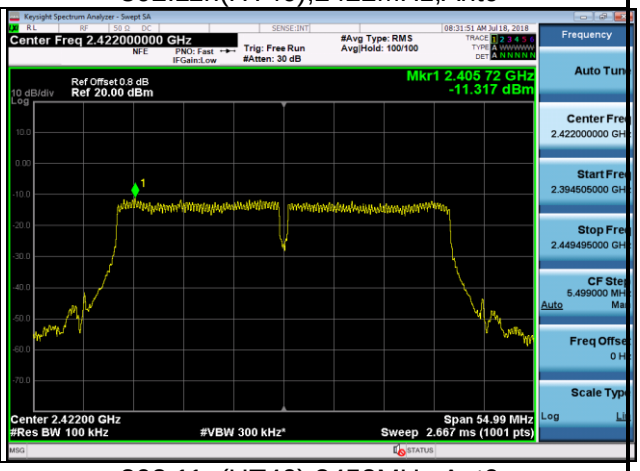


802.11n(HT20),2462MHz,Ant0

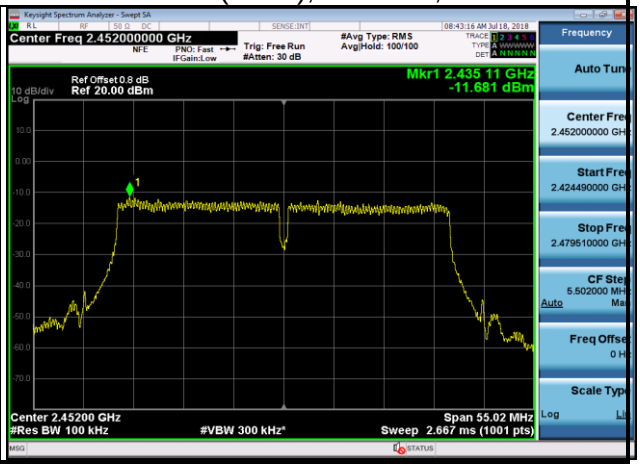


802.11n(HT40),2422MHz,Ant0

802.11n(HT40),2437MHz,Ant0



802.11n(HT40),2452MHz,Ant0



6. Emission outside the frequency band

6.1 Test Data

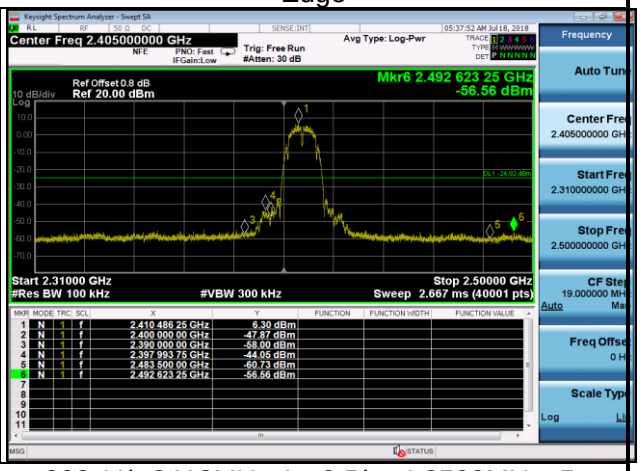
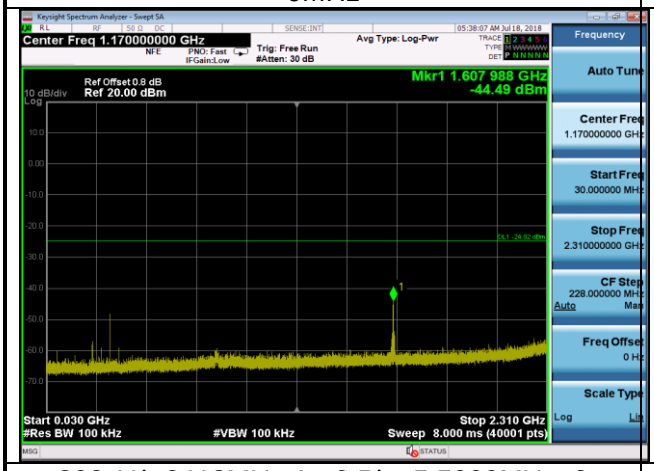
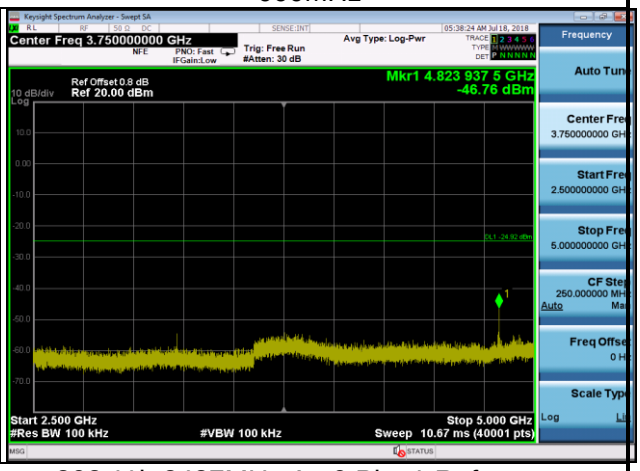
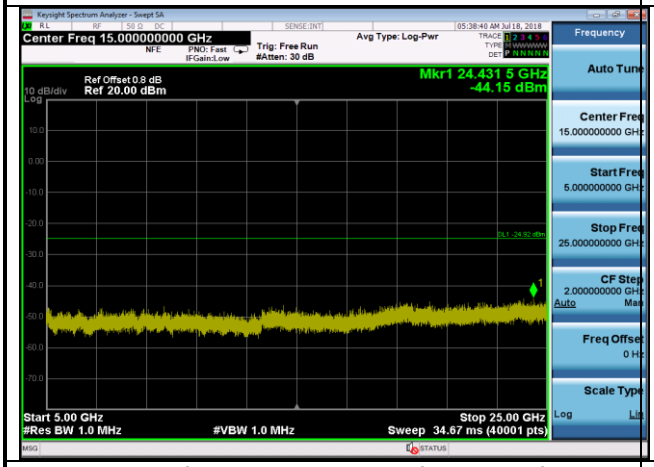
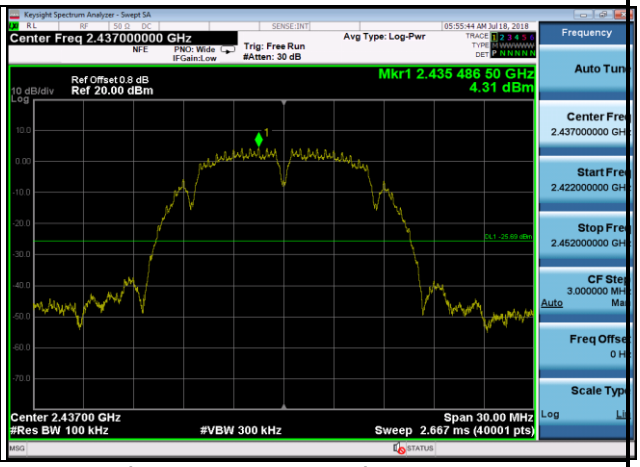
WLAN Transmitter Spurious Emission						
Mode	Test Frequency (MHz)	Ant	Plot No.	Frequency Range	Emission (dBm)	Result
802.11b	2412	Ant0	1	Reference Level	5.08	Pass
802.11b	2412	Ant0	2	Band Edge	-44.05	Pass
802.11b	2412	Ant0	3	30MHz~2310MHz	-44.49	Pass
802.11b	2412	Ant0	4	2500MHz~5000MHz	-46.76	Pass
802.11b	2412	Ant0	5	5000MHz~25000MHz	-44.15	Pass
802.11b	2437	Ant0	1	Reference Level	4.31	Pass
802.11b	2437	Ant0	2	Band Edge	-55.43	Pass
802.11b	2437	Ant0	3	30MHz~2310MHz	-47.89	Pass
802.11b	2437	Ant0	4	2500MHz~5000MHz	-49.16	Pass
802.11b	2437	Ant0	5	5000MHz~25000MHz	-43.55	Pass
802.11b	2462	Ant0	1	Reference Level	3.9	Pass
802.11b	2462	Ant0	2	Band Edge	-54.74	Pass
802.11b	2462	Ant0	3	30MHz~2310MHz	-48.18	Pass
802.11b	2462	Ant0	4	2500MHz~5000MHz	-49.45	Pass
802.11b	2462	Ant0	5	5000MHz~25000MHz	-44.53	Pass
802.11g	2412	Ant0	1	Reference Level	4.41	Pass
802.11g	2412	Ant0	2	Band Edge	-26.23	Pass
802.11g	2412	Ant0	3	30MHz~2310MHz	-47.65	Pass
802.11g	2412	Ant0	4	2500MHz~5000MHz	-53.45	Pass
802.11g	2412	Ant0	5	5000MHz~25000MHz	-42.68	Pass
802.11g	2437	Ant0	1	Reference Level	3.78	Pass
802.11g	2437	Ant0	2	Band Edge	-52.53	Pass
802.11g	2437	Ant0	3	30MHz~2310MHz	-47.59	Pass
802.11g	2437	Ant0	4	2500MHz~5000MHz	-53.22	Pass
802.11g	2437	Ant0	5	5000MHz~25000MHz	-44.11	Pass

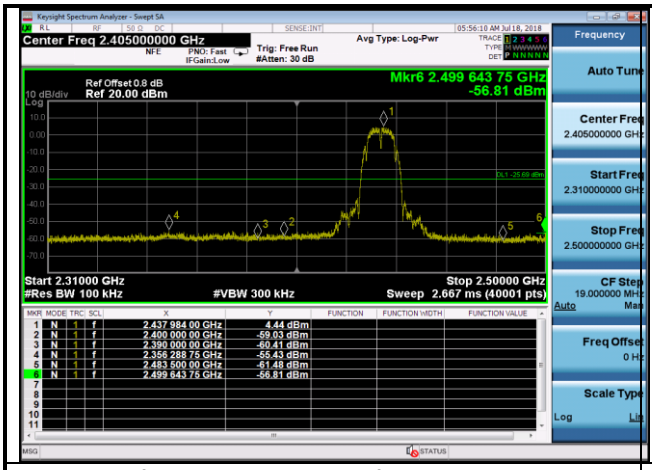
802.11g	2462	Ant0	1	Reference Level	2.51	Pass
802.11g	2462	Ant0	2	Band Edge	-44.17	Pass
802.11g	2462	Ant0	3	30MHz~2310MHz	-47.65	Pass
802.11g	2462	Ant0	4	2500MHz~5000MHz	-54.43	Pass
802.11g	2462	Ant0	5	5000MHz~25000MHz	-44.32	Pass
802.11n (HT20)	2412	Ant0	1	Reference Level	2.97	Pass
802.11n (HT20)	2412	Ant0	2	Band Edge	-36.69	Pass
802.11n (HT20)	2412	Ant0	3	30MHz~2310MHz	-47.69	Pass
802.11n (HT20)	2412	Ant0	4	2500MHz~5000MHz	-54.29	Pass
802.11n (HT20)	2412	Ant0	5	5000MHz~25000MHz	-44.14	Pass
802.11n (HT20)	2437	Ant0	1	Reference Level	2.32	Pass
802.11n (HT20)	2437	Ant0	2	Band Edge	-55.57	Pass
802.11n (HT20)	2437	Ant0	3	30MHz~2310MHz	-47.98	Pass
802.11n (HT20)	2437	Ant0	4	2500MHz~5000MHz	-52.40	Pass
802.11n (HT20)	2437	Ant0	5	5000MHz~25000MHz	-44.51	Pass
802.11n (HT20)	2462	Ant0	1	Reference Level	1.56	Pass
802.11n (HT20)	2462	Ant0	2	Band Edge	-51.65	Pass
802.11n (HT20)	2462	Ant0	3	30MHz~2310MHz	-48.26	Pass
802.11n (HT20)	2462	Ant0	4	2500MHz~5000MHz	-54.20	Pass
802.11n (HT20)	2462	Ant0	5	5000MHz~25000MHz	-44.39	Pass
802.11n (HT40)	2422	Ant0	1	Reference Level	-1.34	Pass
802.11n (HT40)	2422	Ant0	2	Band Edge	-37.33	Pass
802.11n (HT40)	2422	Ant0	3	30MHz~2310MHz	-48.11	Pass
802.11n (HT40)	2422	Ant0	4	2500MHz~5000MHz	-53.74	Pass
802.11n (HT40)	2422	Ant0	5	5000MHz~25000MHz	-44.01	Pass
802.11n (HT40)	2437	Ant0	1	Reference Level	-0.42	Pass
802.11n (HT40)	2437	Ant0	2	Band Edge	-43.29	Pass

802.11n (HT40)	2437	Ant0	3	30MHz~2310MHz	-48.20	Pass
802.11n (HT40)	2437	Ant0	4	2500MHz~5000MHz	-54.36	Pass
802.11n (HT40)	2437	Ant0	5	5000MHz~25000MHz	-44.22	Pass
802.11n (HT40)	2452	Ant0	1	Reference Level	-1.58	Pass
802.11n (HT40)	2452	Ant0	2	Band Edge	-50.12	Pass
802.11n (HT40)	2452	Ant0	3	30MHz~2310MHz	-48.21	Pass
802.11n (HT40)	2452	Ant0	4	2500MHz~5000MHz	-54.54	Pass
802.11n (HT40)	2452	Ant0	5	5000MHz~25000MHz	-43.61	Pass

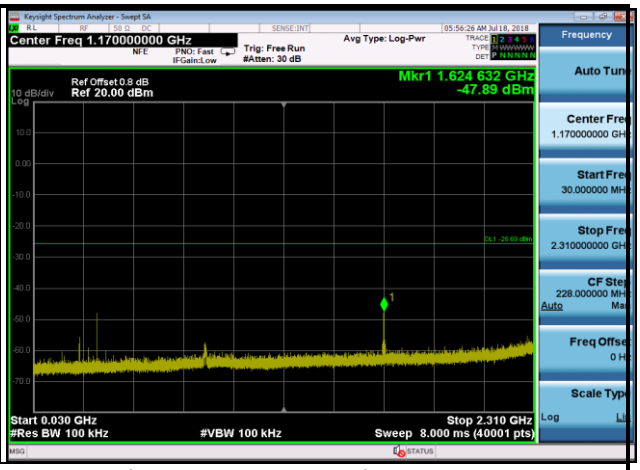
9.2 Test Plots

TEST REPORT

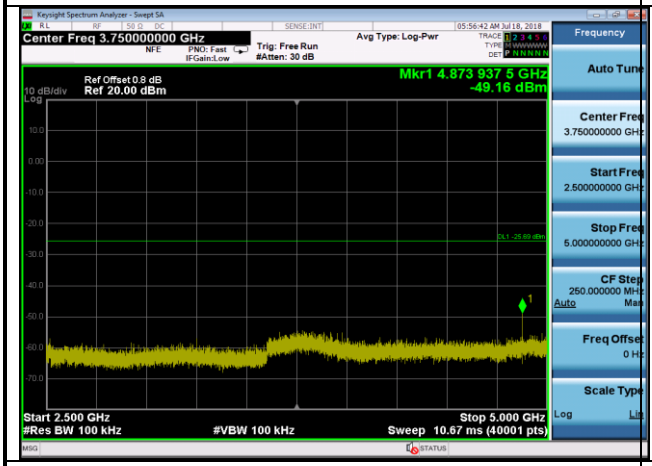
802.11b,2412MHz,Ant0,Plot 1,Reference Level	802.11b,2412MHz,Ant0,Plot 2,Band Edge
	
802.11b,2412MHz,Ant0,Plot 3,30MHz~2310MHz	802.11b,2412MHz,Ant0,Plot 4,2500MHz~5000MHz
	
802.11b,2412MHz,Ant0,Plot 5,5000MHz~25000MHz	802.11b,2437MHz,Ant0,Plot 1,Reference Level
	
802.11b,2437MHz,Ant0,Plot 2,Band Edge	802.11b,2437MHz,Ant0,Plot 3,30MHz~2310MHz



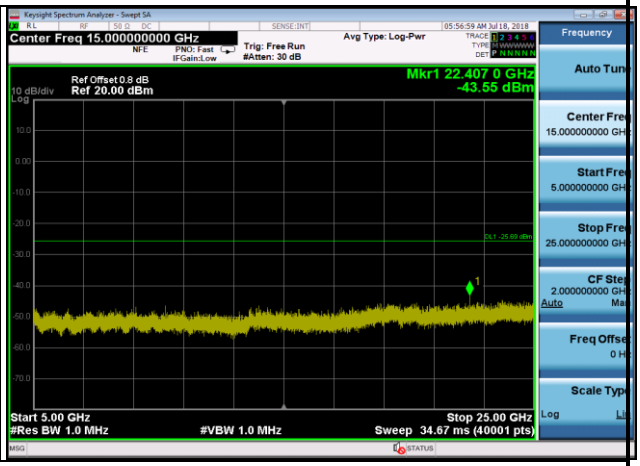
802.11b,2437MHz,Ant0,Plot 4,2500MHz~5 000MHz



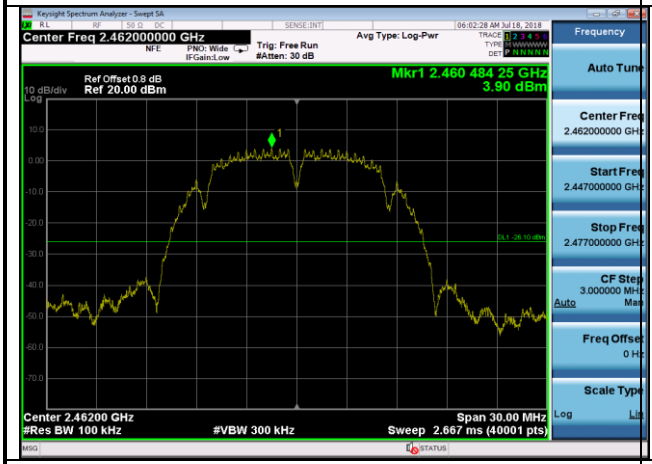
802.11b,2437MHz,Ant0,Plot 5,5000MHz~2 5000MHz



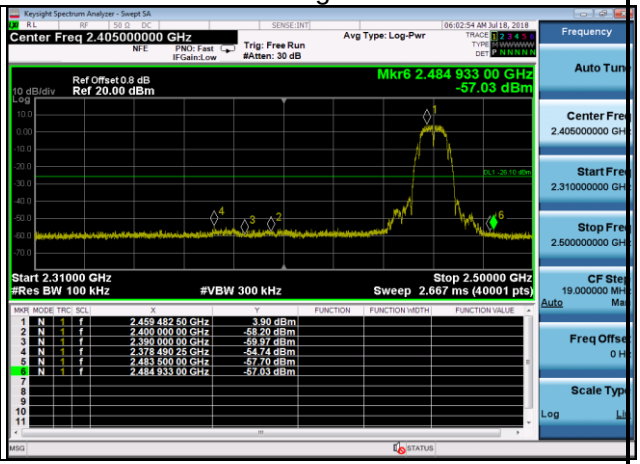
802.11b,2462MHz,Ant0,Plot 1,Reference Level



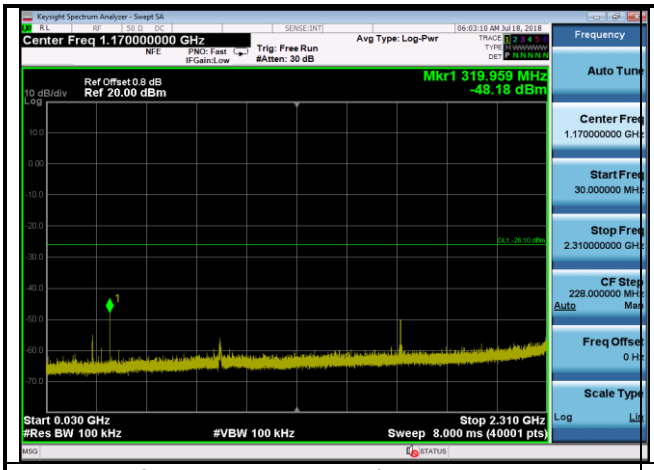
802.11b,2462MHz,Ant0,Plot 2,Band Edge



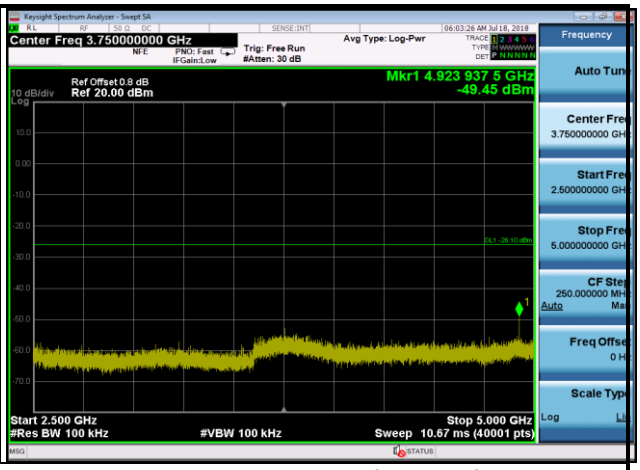
802.11b,2462MHz,Ant0,Plot 3,30MHz~231 0MHz



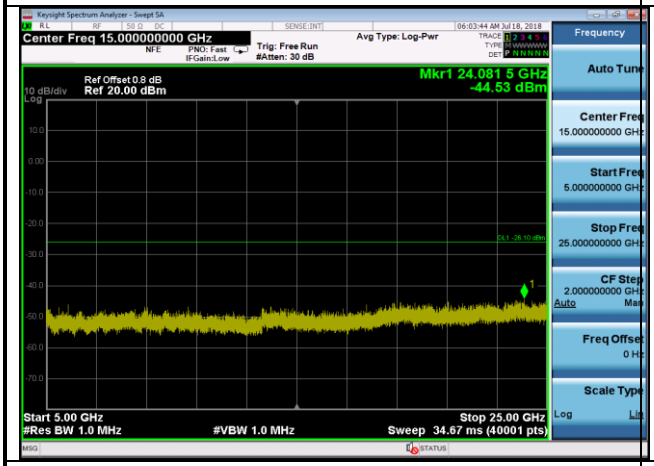
802.11b,2462MHz,Ant0,Plot 4,2500MHz~5 000MHz



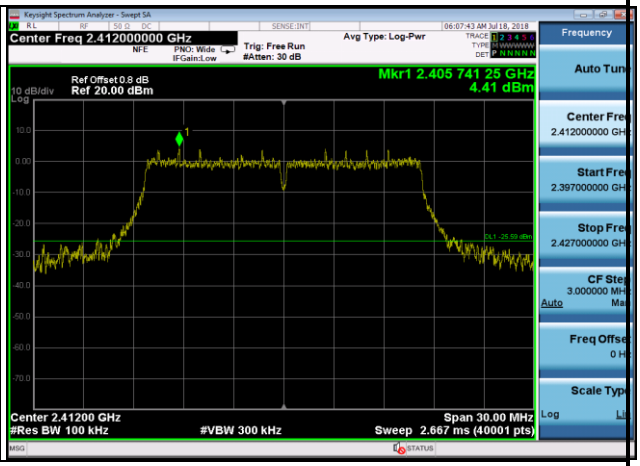
802.11b,2462MHz,Ant0,Plot 5,5000MHz~25000MHz



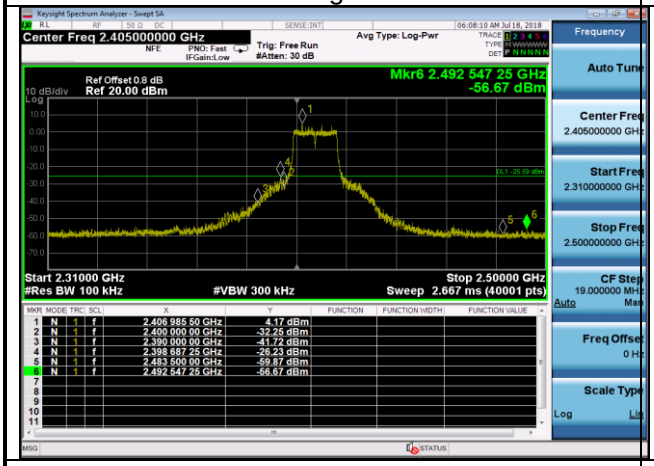
802.11g,2412MHz,Ant0,Plot 1,Reference Level



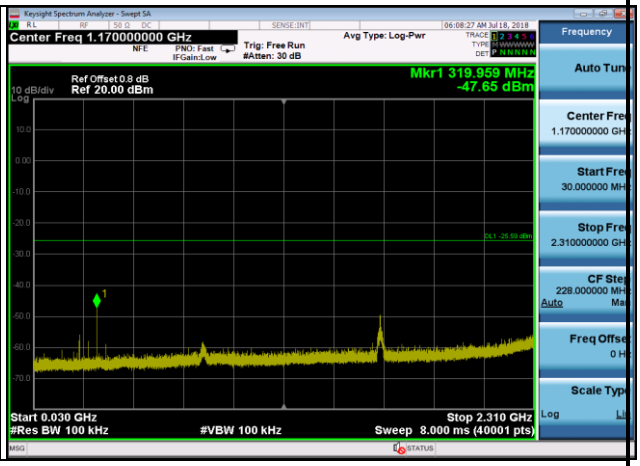
802.11g,2412MHz,Ant0,Plot 2,Band Edge



802.11g,2412MHz,Ant0,Plot 3,30MHz~2310MHz

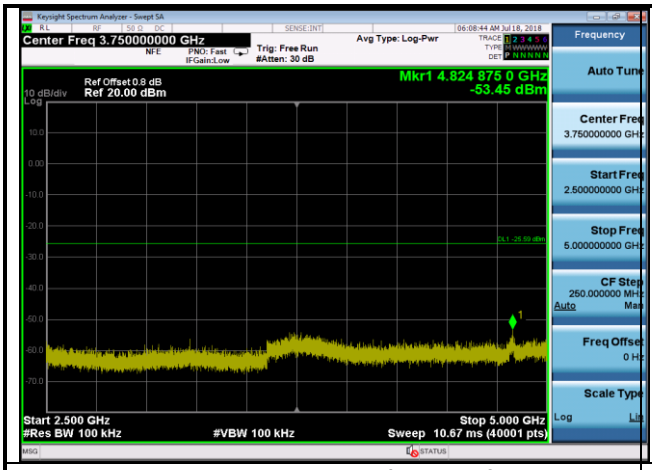


802.11g,2412MHz,Ant0,Plot 4,2500MHz~5000MHz

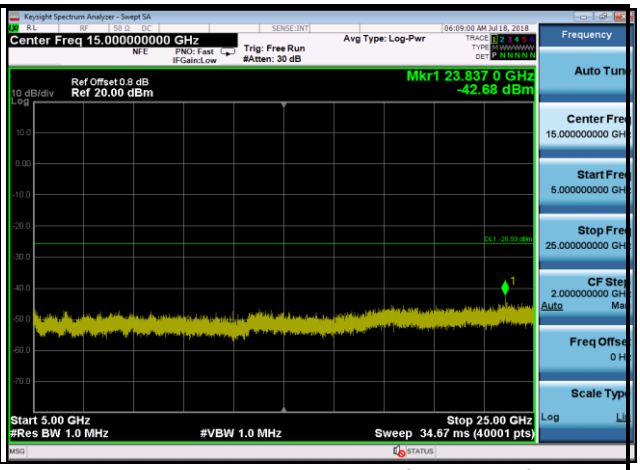


802.11g,2412MHz,Ant0,Plot 5,5000MHz~25000MHz

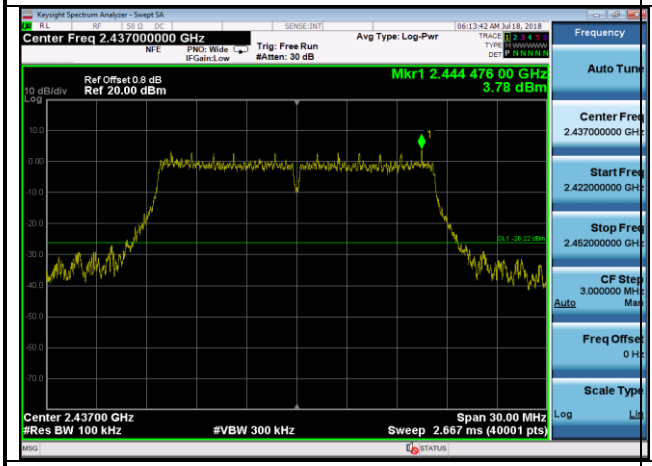
TEST REPORT



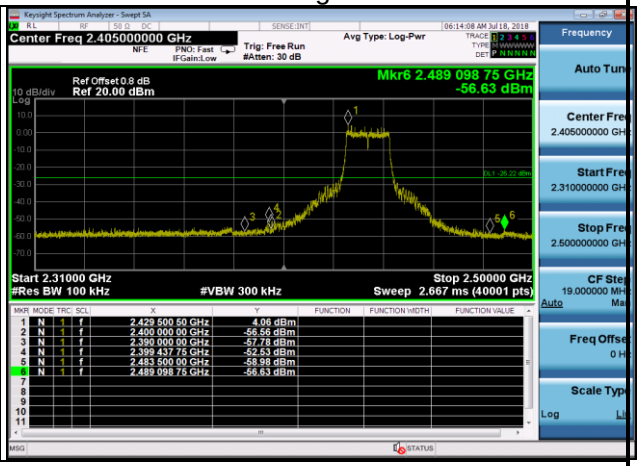
802.11g,2437MHz,Ant0,Plot 1,Reference Level



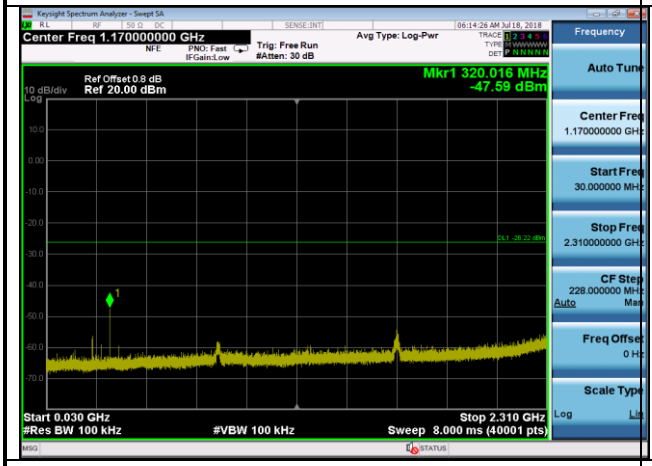
802.11g,2437MHz,Ant0,Plot 2,Band Edge



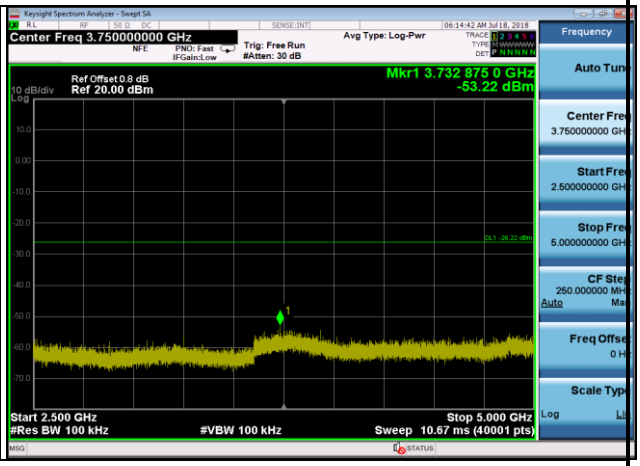
802.11g,2437MHz,Ant0,Plot 3,30MHz~2310MHz



802.11g,2437MHz,Ant0,Plot 4,2500MHz~5000MHz



802.11g,2437MHz,Ant0,Plot 5,5000MHz~25000MHz



802.11g,2462MHz,Ant0,Plot 1,Reference Level