

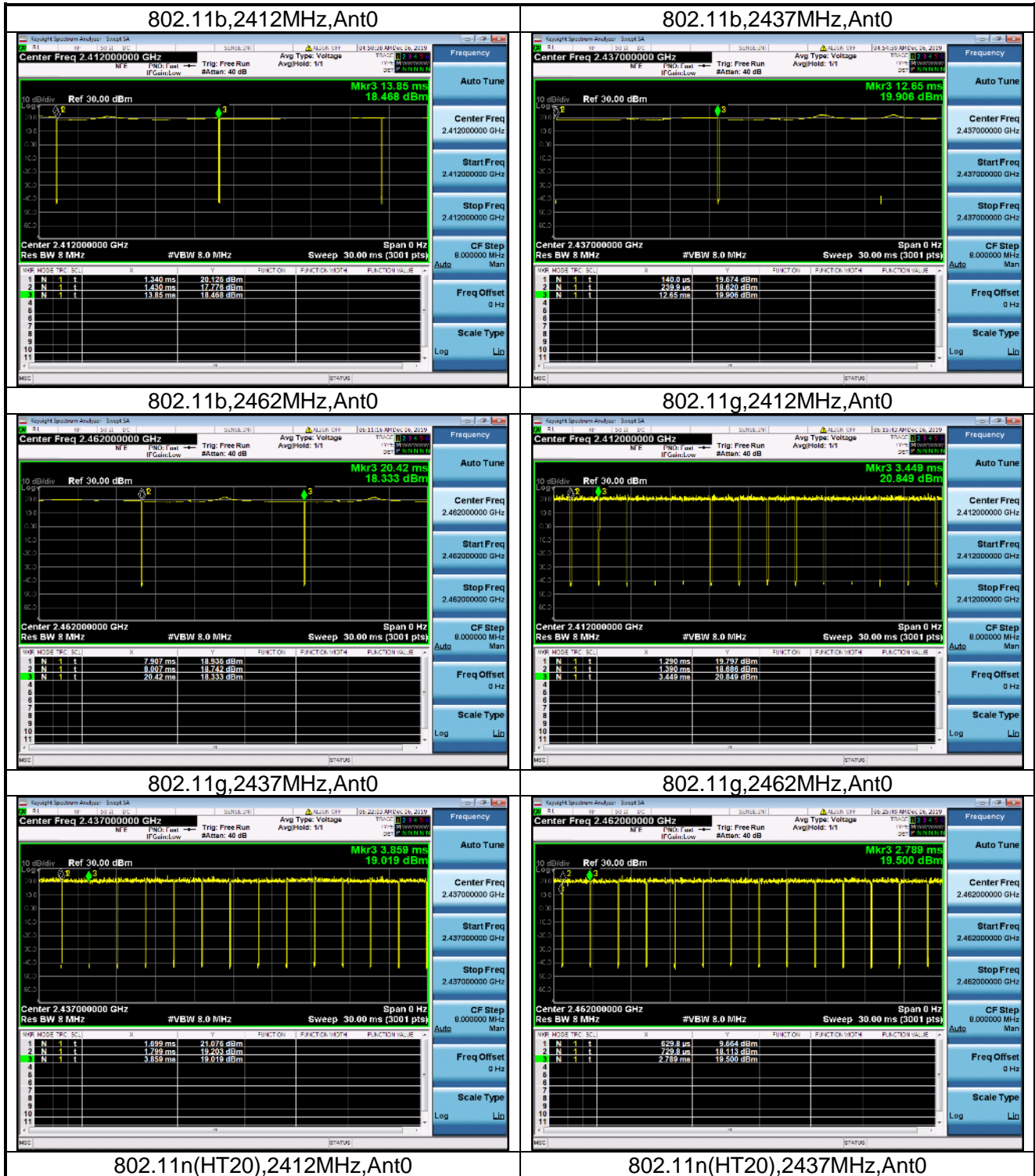
Appendix A: Test results

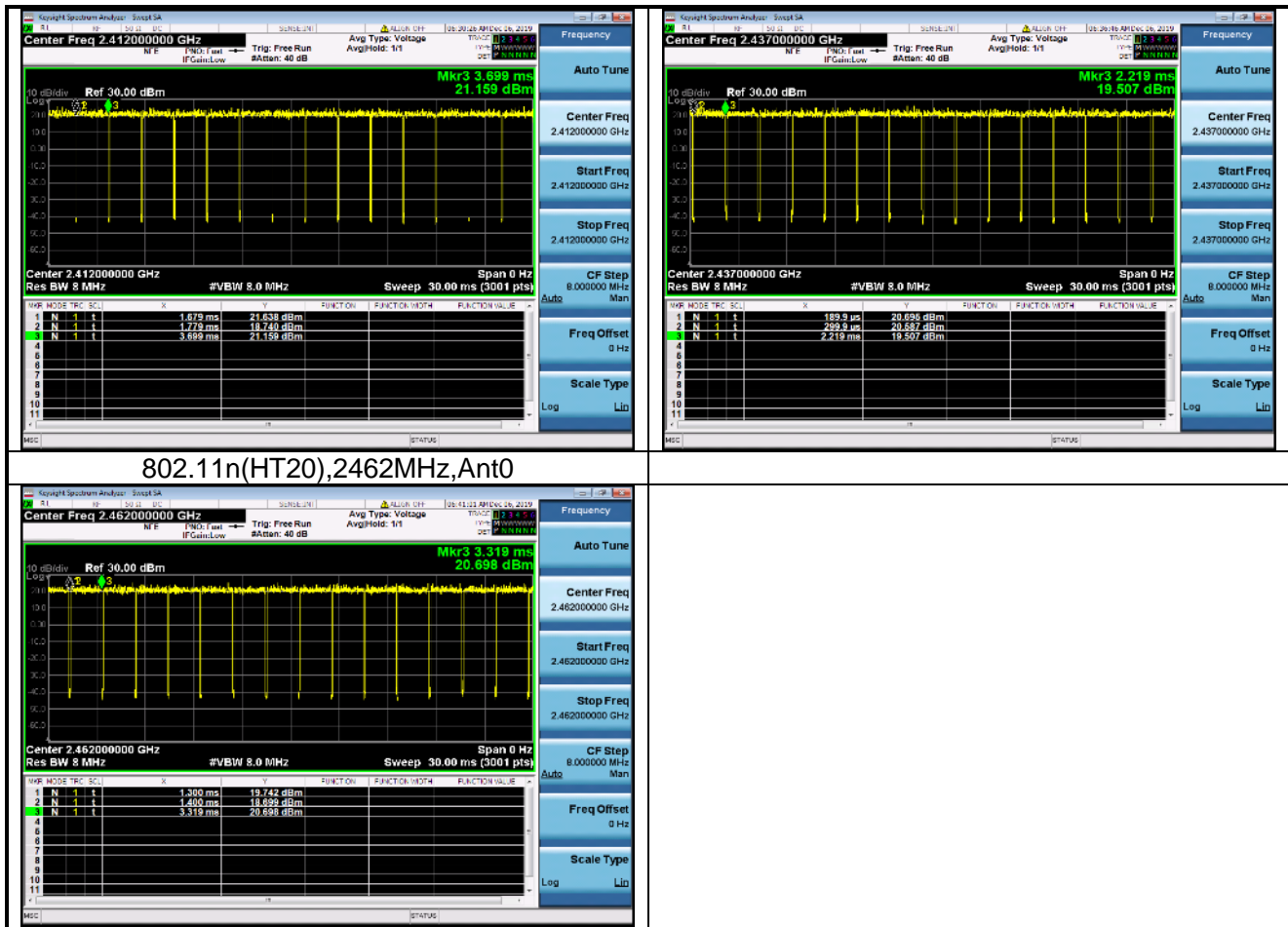
1. Duty Cycle

1.1 Test Data

WLAN Duty Cycle				
Mode	Test Frequency (MHz)	Ant	Duty Cycle (%)	Duty Cycle Factor (dB)
802.11b	2412	Ant0	99.28	0.00
802.11b	2437	Ant0	99.20	0.00
802.11b	2462	Ant0	99.20	0.00
802.11g	2412	Ant0	95.37	0.21
802.11g	2437	Ant0	95.37	0.21
802.11g	2462	Ant0	95.37	0.21
802.11n (HT20)	2412	Ant0	95.05	0.22
802.11n (HT20)	2437	Ant0	94.58	0.24
802.11n (HT20)	2462	Ant0	95.05	0.22

1.2 Test Plots



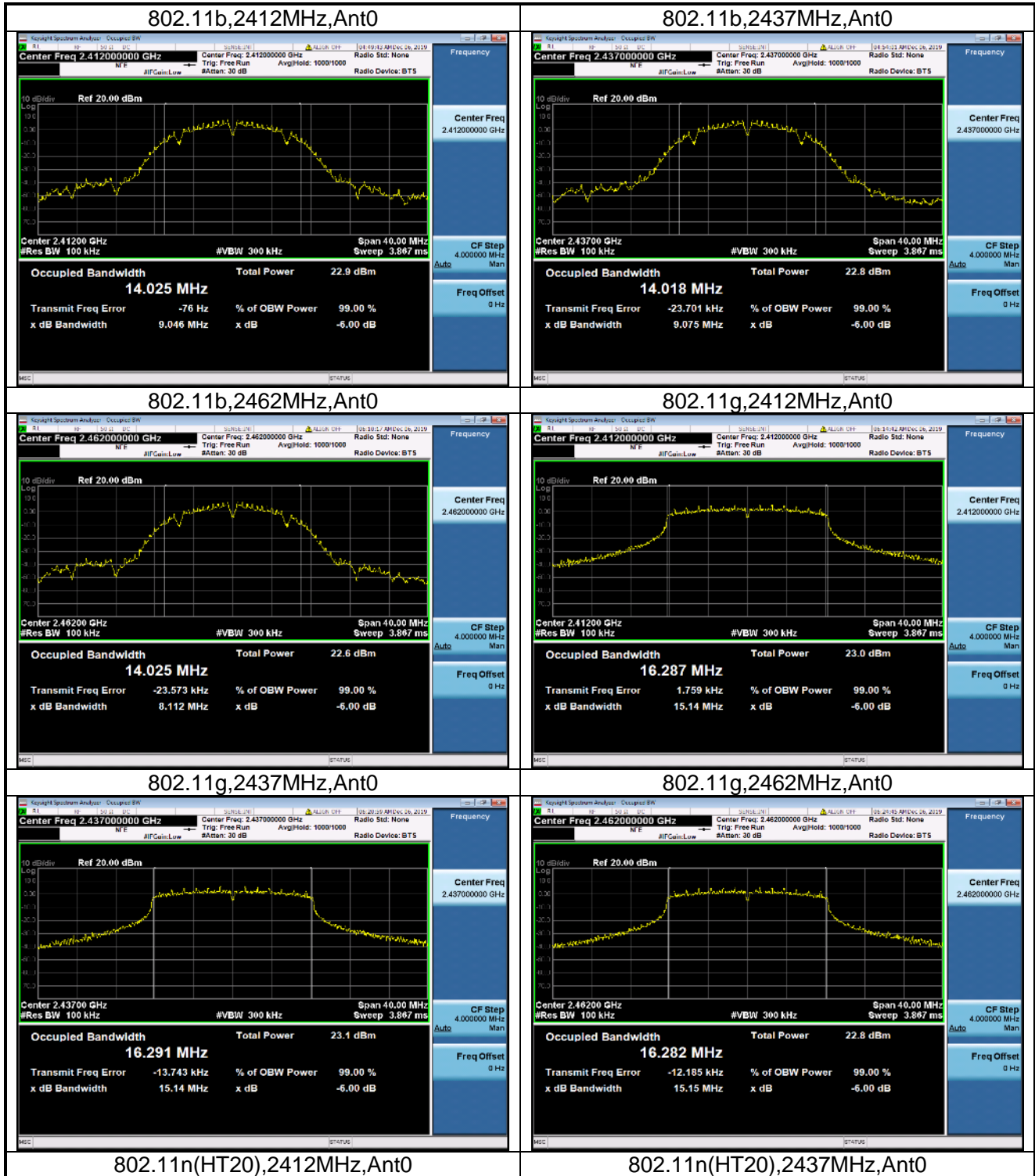


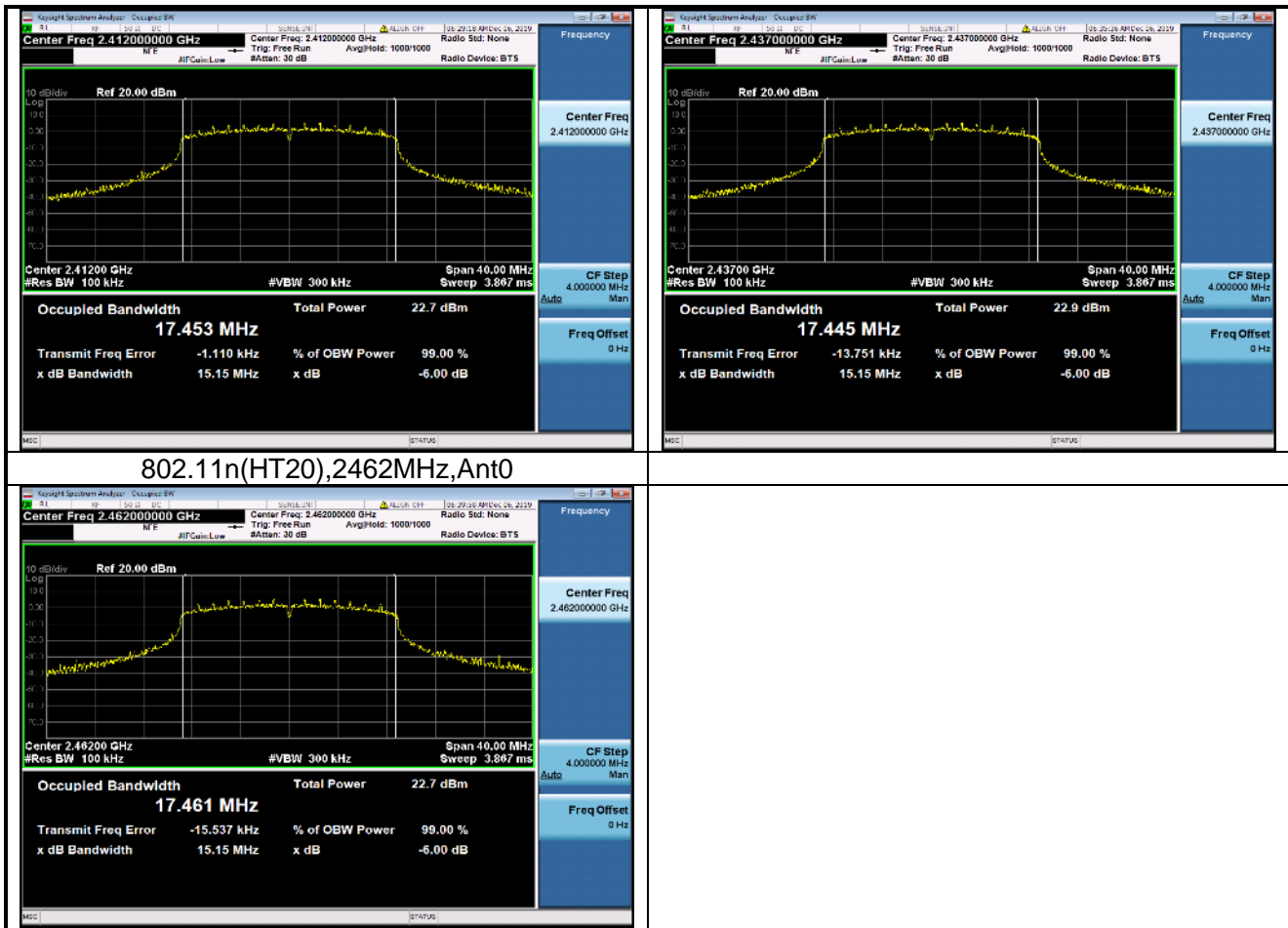
2. Minimum 6dB bandwidth

2.1 Test Data

WLAN Occupied 6dB Bandwidth				
Mode	Test Frequency (MHz)	Ant	Occupied Bandwidth (MHz)	Result
802.11b	2412	Ant0	9.05	Pass
802.11b	2437	Ant0	9.08	Pass
802.11b	2462	Ant0	8.11	Pass
802.11g	2412	Ant0	15.14	Pass
802.11g	2437	Ant0	15.14	Pass
802.11g	2462	Ant0	15.15	Pass
802.11n (HT20)	2412	Ant0	15.15	Pass
802.11n (HT20)	2437	Ant0	15.15	Pass
802.11n (HT20)	2462	Ant0	15.15	Pass

2.2 Test Plots



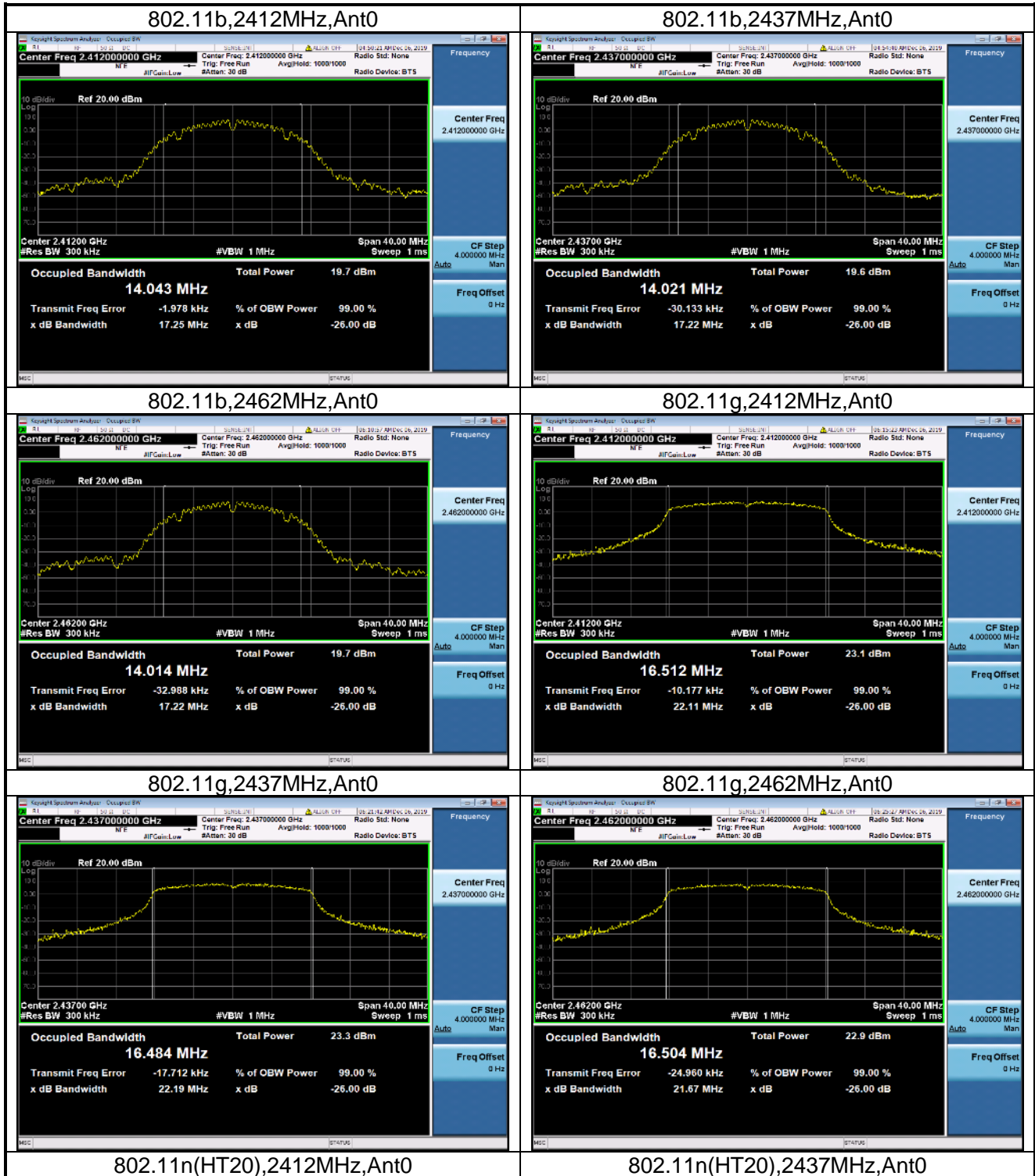


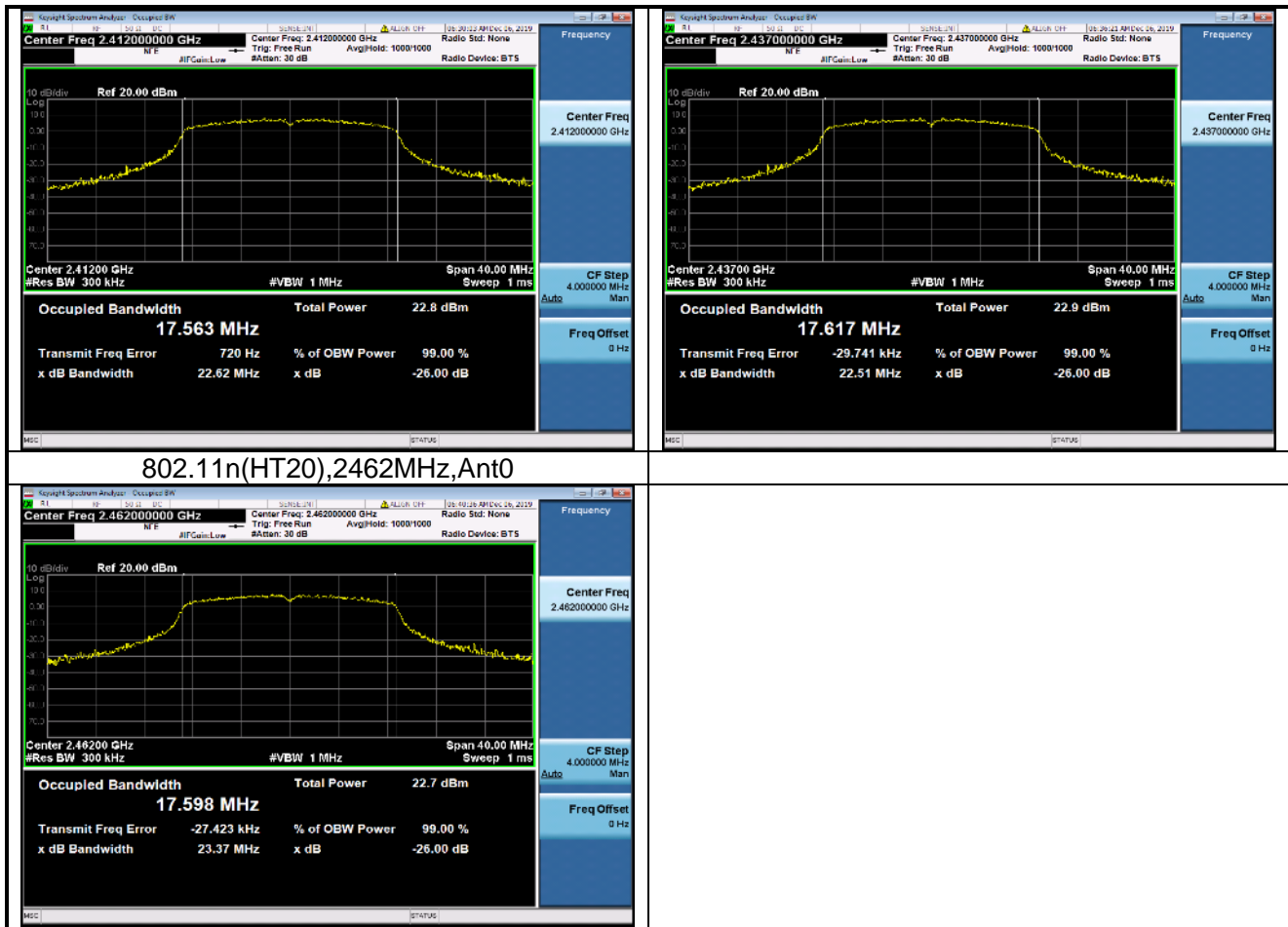
3. Occupied Bandwidth

3.1 Test Data

WLAN 99% Occupied Bandwidth				
Mode	Test Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Result
802.11b	2412	Ant0	14.043	Pass
802.11b	2437	Ant0	14.021	Pass
802.11b	2462	Ant0	14.014	Pass
802.11g	2412	Ant0	16.512	Pass
802.11g	2437	Ant0	16.484	Pass
802.11g	2462	Ant0	16.504	Pass
802.11n (HT20)	2412	Ant0	17.563	Pass
802.11n (HT20)	2437	Ant0	17.617	Pass
802.11n (HT20)	2462	Ant0	17.598	Pass

3.2 Test Plots



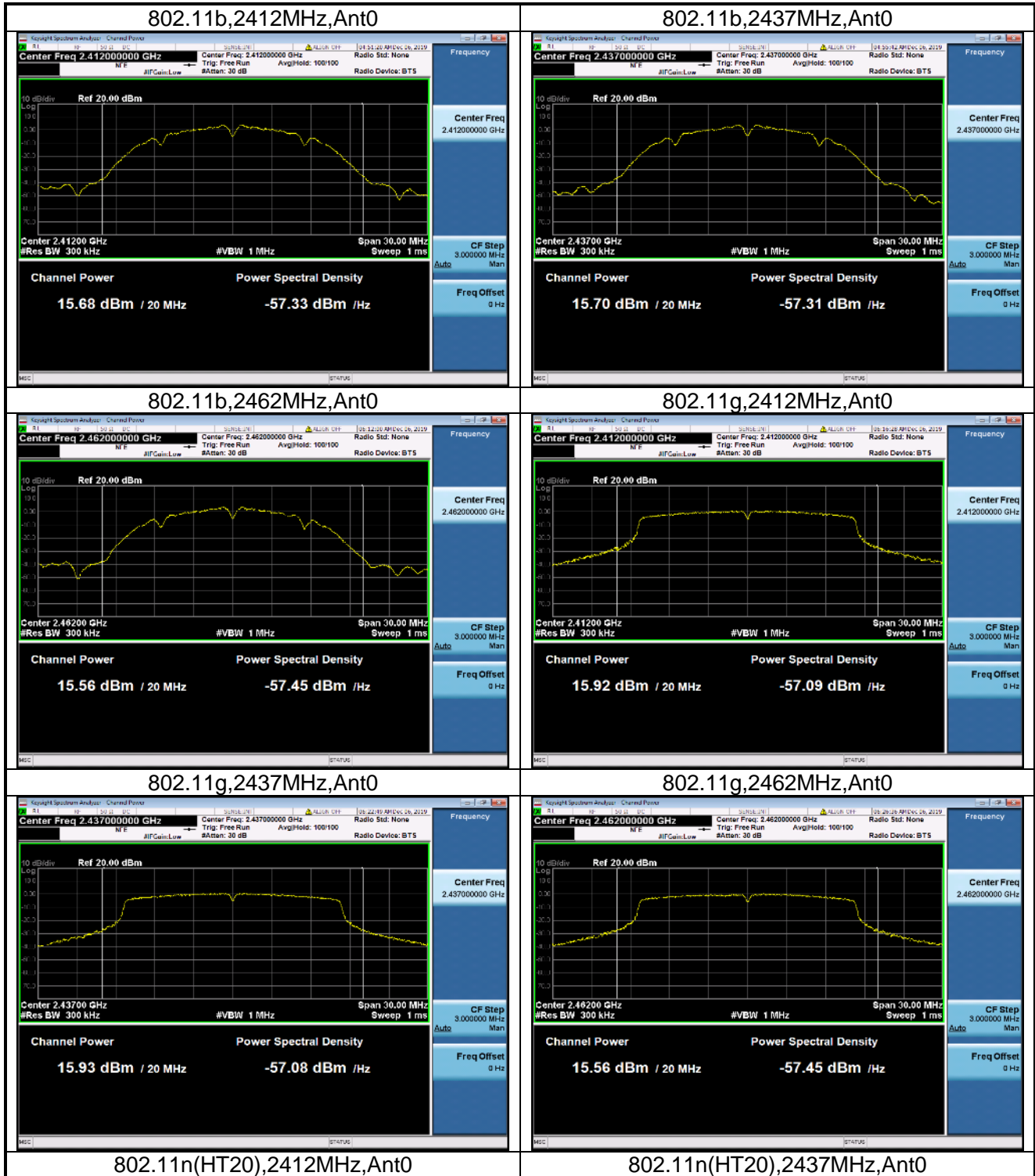


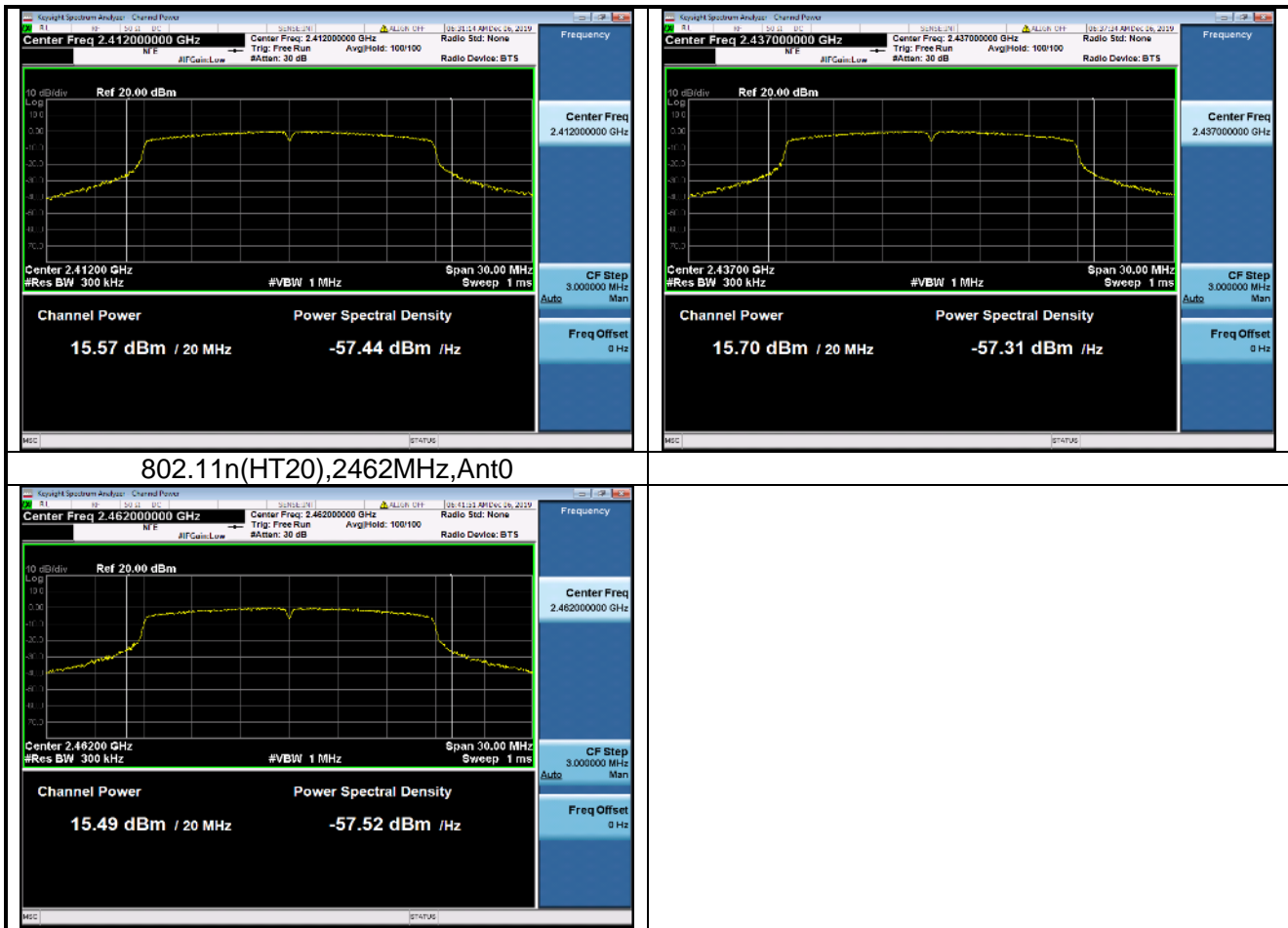
4. Maximum conducted output power and e.i.r.p

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	0.00	15.68	30	18.86	Pass
802.11b	2437	Ant0	0.00	15.70	30	18.88	Pass
802.11b	2462	Ant0	0.00	15.56	30	18.74	Pass
802.11g	2412	Ant0	0.21	16.13	30	19.31	Pass
802.11g	2437	Ant0	0.21	16.14	30	19.32	Pass
802.11g	2462	Ant0	0.21	15.77	30	18.95	Pass
802.11n (HT20)	2412	Ant0	0.22	15.79	30	18.97	Pass
802.11n (HT20)	2437	Ant0	0.24	15.94	30	19.12	Pass
802.11n (HT20)	2462	Ant0	0.22	15.71	30	18.89	Pass

4.2 Test Plots



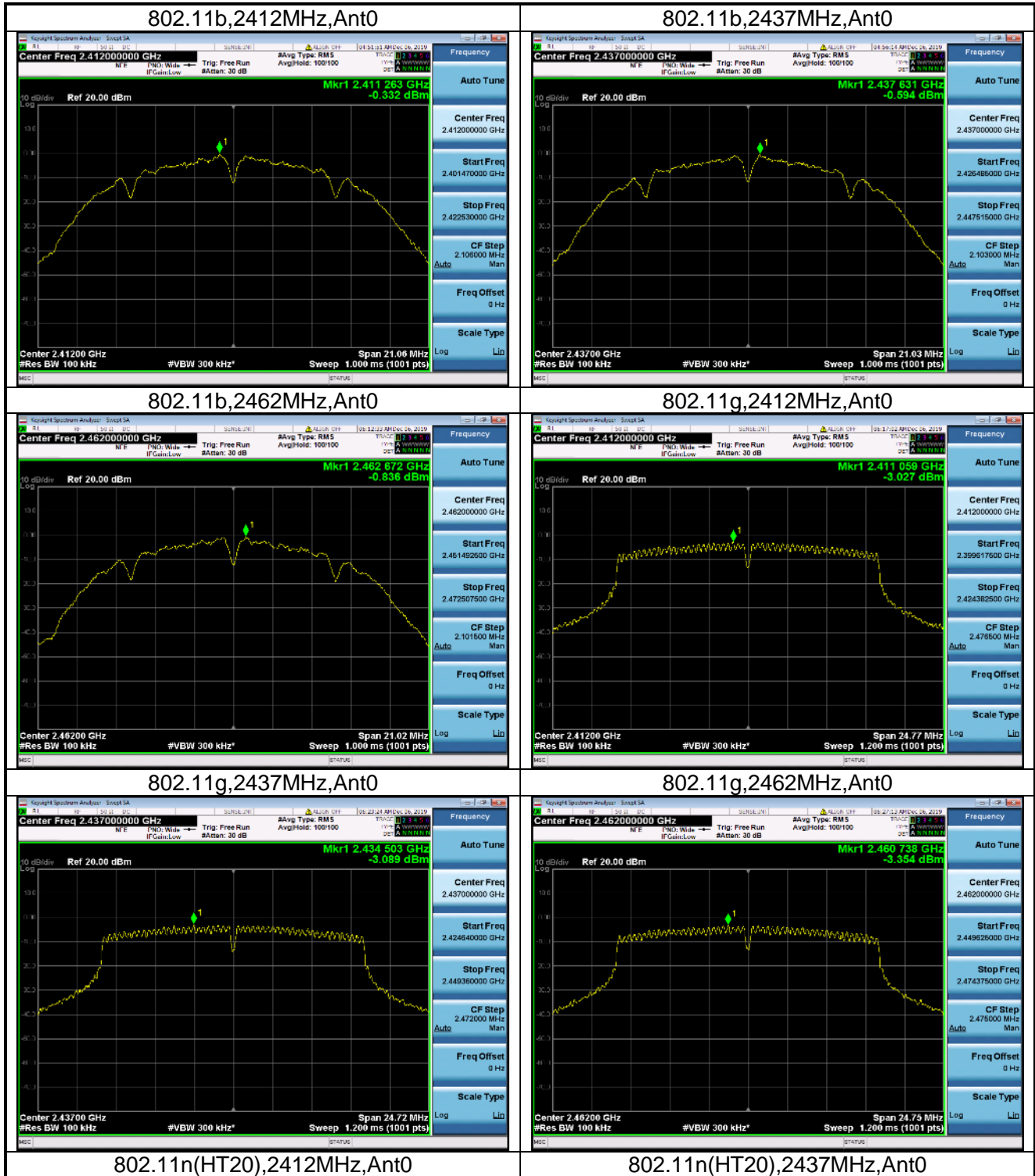


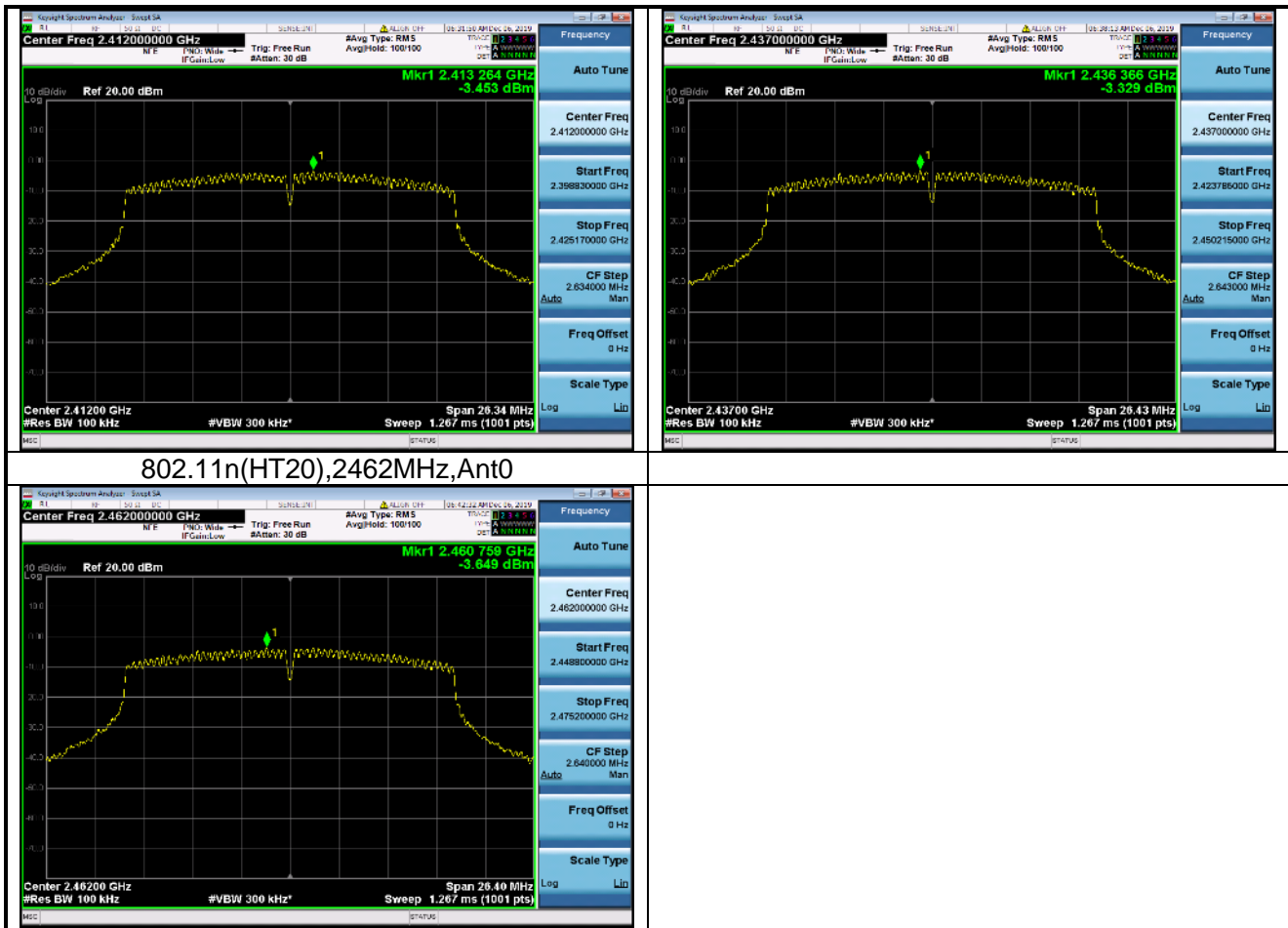
5. Power spectrum density

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	0.00	-0.332	100	8	Pass
802.11b	2437	Ant0	0.00	-0.594	100	8	Pass
802.11b	2462	Ant0	0.00	-0.836	100	8	Pass
802.11g	2412	Ant0	0.21	-2.817	100	8	Pass
802.11g	2437	Ant0	0.21	-2.879	100	8	Pass
802.11g	2462	Ant0	0.21	-3.144	100	8	Pass
802.11n (HT20)	2412	Ant0	0.22	-3.233	100	8	Pass
802.11n (HT20)	2437	Ant0	0.24	-3.089	100	8	Pass
802.11n (HT20)	2462	Ant0	0.22	-3.429	100	8	Pass

5.2 Test Plots





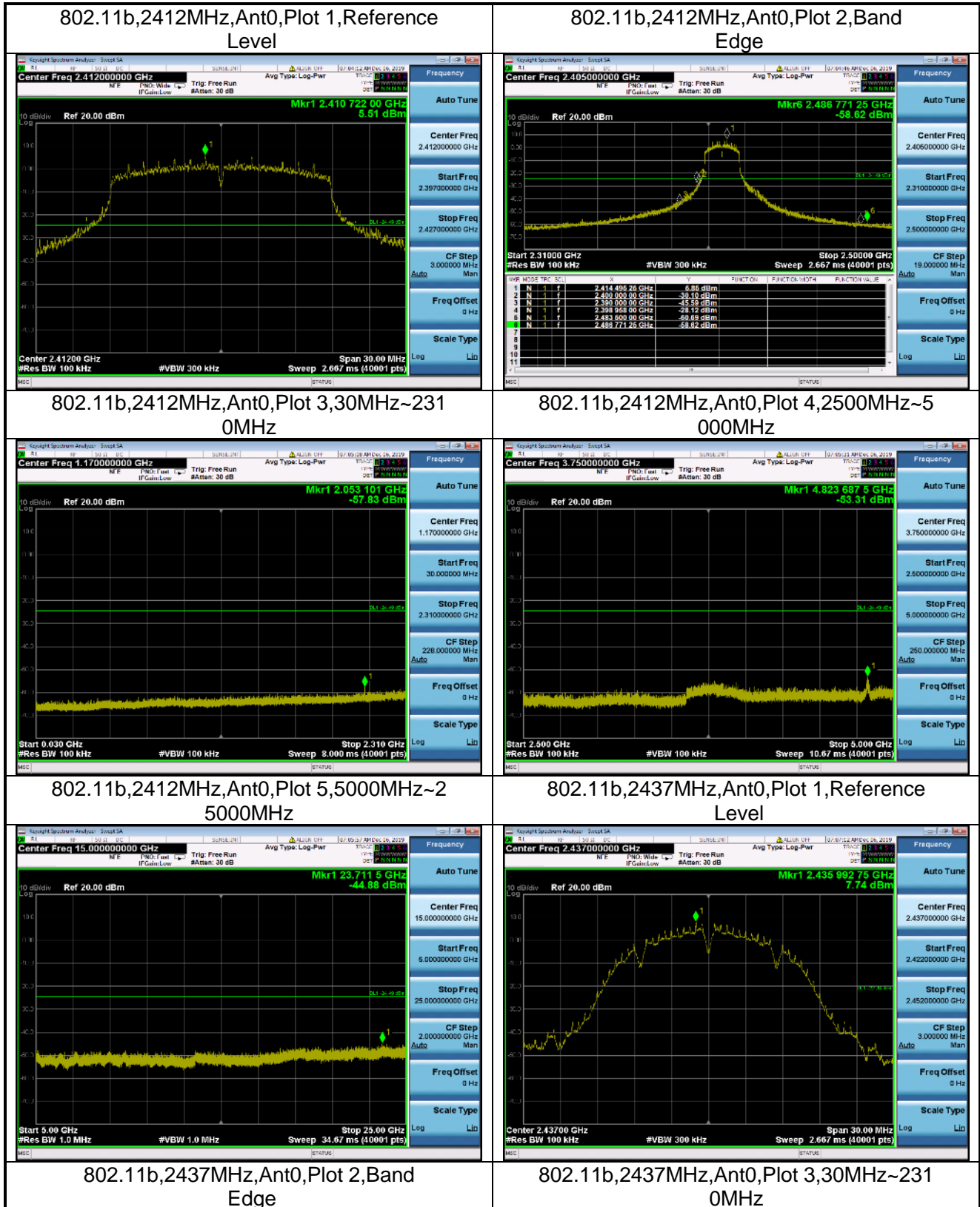
6. Emission outside the frequency band

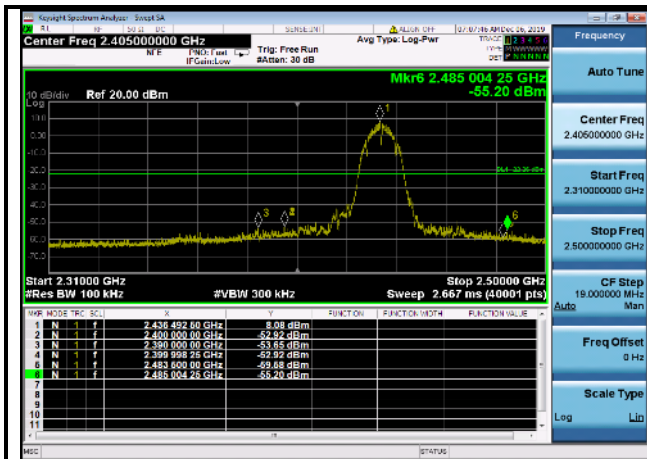
6.1 Test Data

WLAN Transmitter Spurious Emission						
Mode	Test Frequency (MHz)	Ant	Plot No.	Frequency Range	Emission (dBm)	Result
802.11b	2412	Ant0	1	Reference Level	5.51	Pass
802.11b	2412	Ant0	2	Band Edge	-28.12	Pass
802.11b	2412	Ant0	3	30MHz~2310MHz	-57.83	Pass
802.11b	2412	Ant0	4	2500MHz~5000MHz	-53.31	Pass
802.11b	2412	Ant0	5	5000MHz~25000MHz	-44.88	Pass
802.11b	2437	Ant0	1	Reference Level	7.74	Pass
802.11b	2437	Ant0	2	Band Edge	-52.92	Pass
802.11b	2437	Ant0	3	30MHz~2310MHz	-57.67	Pass
802.11b	2437	Ant0	4	2500MHz~5000MHz	-46.10	Pass
802.11b	2437	Ant0	5	5000MHz~25000MHz	-44.41	Pass
802.11b	2462	Ant0	1	Reference Level	7.63	Pass
802.11b	2462	Ant0	2	Band Edge	-49.92	Pass
802.11b	2462	Ant0	3	30MHz~2310MHz	-57.82	Pass
802.11b	2462	Ant0	4	2500MHz~5000MHz	-46.98	Pass
802.11b	2462	Ant0	5	5000MHz~25000MHz	-44.79	Pass
802.11g	2412	Ant0	1	Reference Level	5.86	Pass
802.11g	2412	Ant0	2	Band Edge	-28.24	Pass
802.11g	2412	Ant0	3	30MHz~2310MHz	-58.78	Pass
802.11g	2412	Ant0	4	2500MHz~5000MHz	-52.87	Pass
802.11g	2412	Ant0	5	5000MHz~25000MHz	-44.72	Pass
802.11g	2437	Ant0	1	Reference Level	5.75	Pass
802.11g	2437	Ant0	2	Band Edge	-49.44	Pass
802.11g	2437	Ant0	3	30MHz~2310MHz	-57.92	Pass
802.11g	2437	Ant0	4	2500MHz~5000MHz	-52.18	Pass
802.11g	2437	Ant0	5	5000MHz~25000MHz	-44.35	Pass

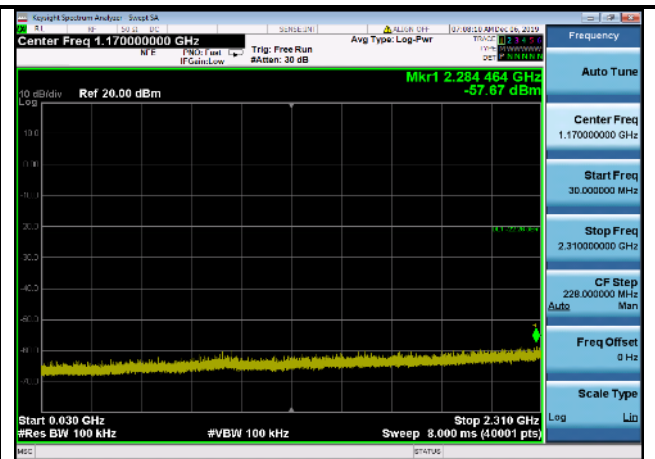
802.11g	2462	Ant0	1	Reference Level	5.42	Pass
802.11g	2462	Ant0	2	Band Edge	-40.60	Pass
802.11g	2462	Ant0	3	30MHz~2310MHz	-57.79	Pass
802.11g	2462	Ant0	4	2500MHz~5000MHz	-52.35	Pass
802.11g	2462	Ant0	5	5000MHz~25000MHz	-44.70	Pass
802.11n (HT20)	2412	Ant0	1	Reference Level	5.31	Pass
802.11n (HT20)	2412	Ant0	2	Band Edge	-27.92	Pass
802.11n (HT20)	2412	Ant0	3	30MHz~2310MHz	-58.39	Pass
802.11n (HT20)	2412	Ant0	4	2500MHz~5000MHz	-53.91	Pass
802.11n (HT20)	2412	Ant0	5	5000MHz~25000MHz	-45.32	Pass
802.11n (HT20)	2437	Ant0	1	Reference Level	5.51	Pass
802.11n (HT20)	2437	Ant0	2	Band Edge	-49.12	Pass
802.11n (HT20)	2437	Ant0	3	30MHz~2310MHz	-57.49	Pass
802.11n (HT20)	2437	Ant0	4	2500MHz~5000MHz	-51.62	Pass
802.11n (HT20)	2437	Ant0	5	5000MHz~25000MHz	-44.96	Pass
802.11n (HT20)	2462	Ant0	1	Reference Level	5.34	Pass
802.11n (HT20)	2462	Ant0	2	Band Edge	-39.39	Pass
802.11n (HT20)	2462	Ant0	3	30MHz~2310MHz	-56.85	Pass
802.11n (HT20)	2462	Ant0	4	2500MHz~5000MHz	-51.84	Pass
802.11n (HT20)	2462	Ant0	5	5000MHz~25000MHz	-44.62	Pass

9.2 Test Plots

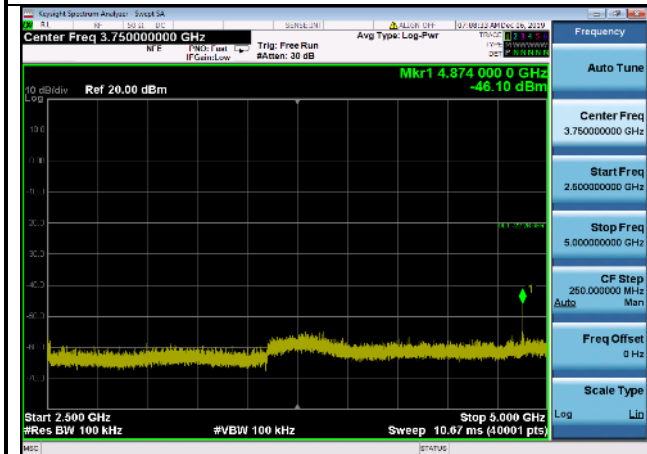




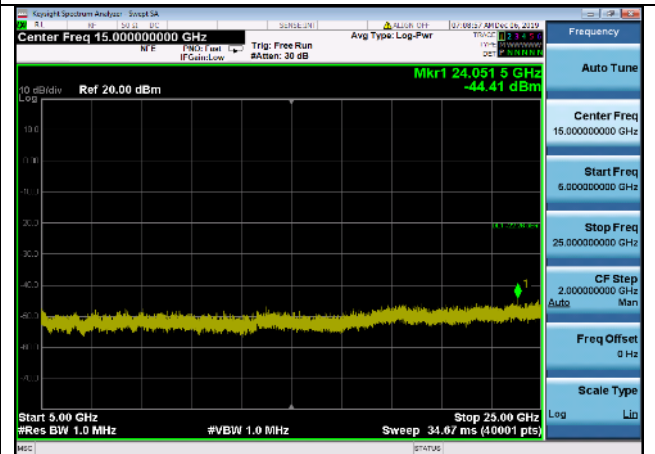
802.11b,2437MHz,Ant0,Plot 4,2500MHz~5000MHz



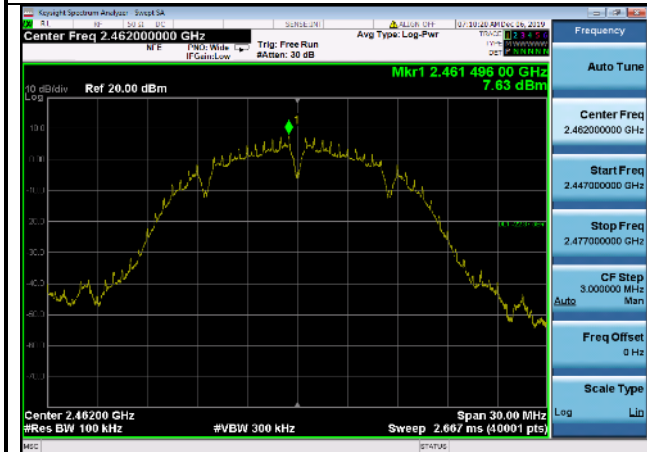
802.11b,2437MHz,Ant0,Plot 5,5000MHz~25000MHz



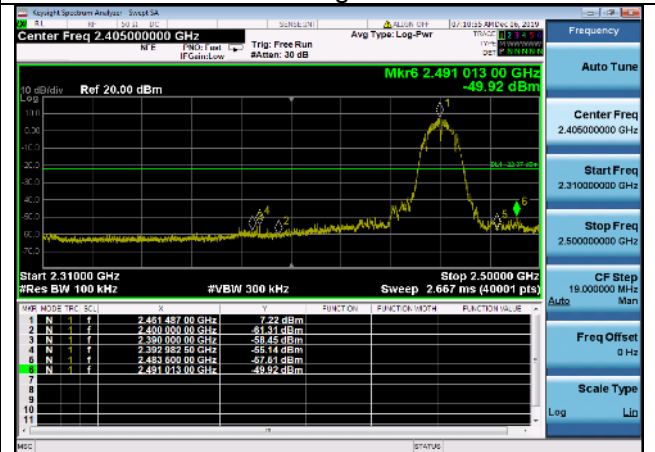
802.11b,2462MHz,Ant0,Plot 1,Reference Level



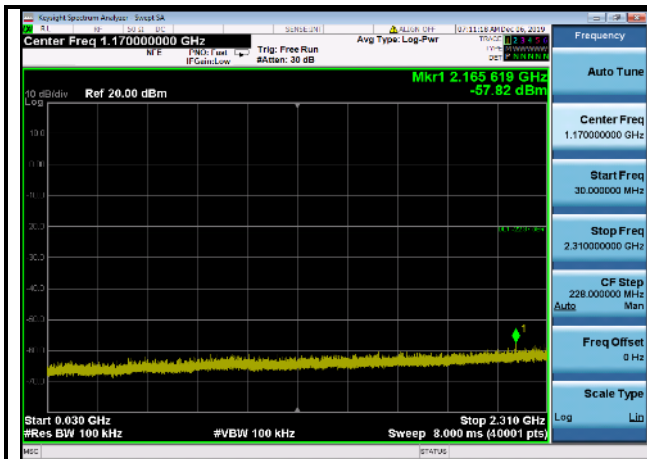
802.11b,2462MHz,Ant0,Plot 2,Band Edge



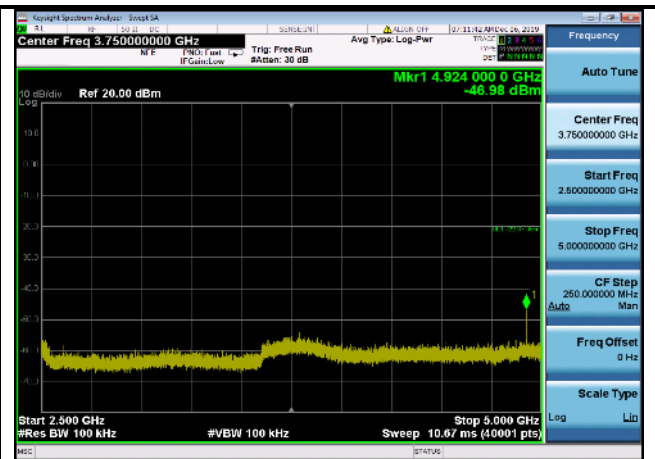
802.11b,2462MHz,Ant0,Plot 3,30MHz~2310MHz



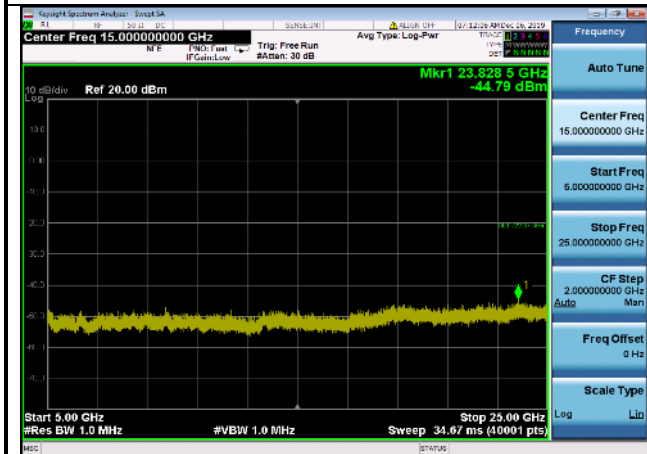
802.11b,2462MHz,Ant0,Plot 4,2500MHz~5000MHz



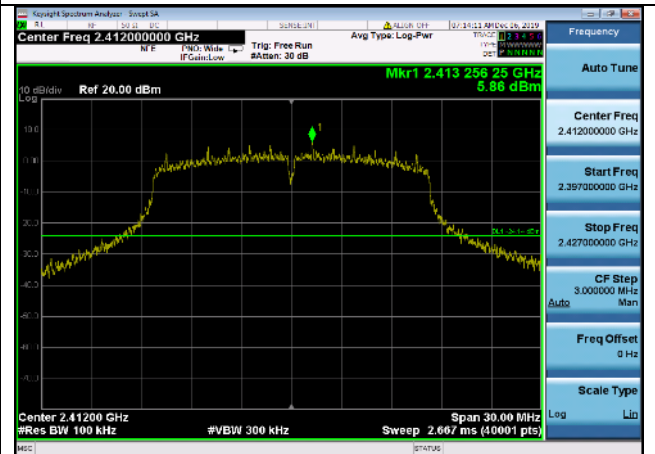
802.11b,2462MHz,Ant0,Plot 5,5000MHz~25000MHz



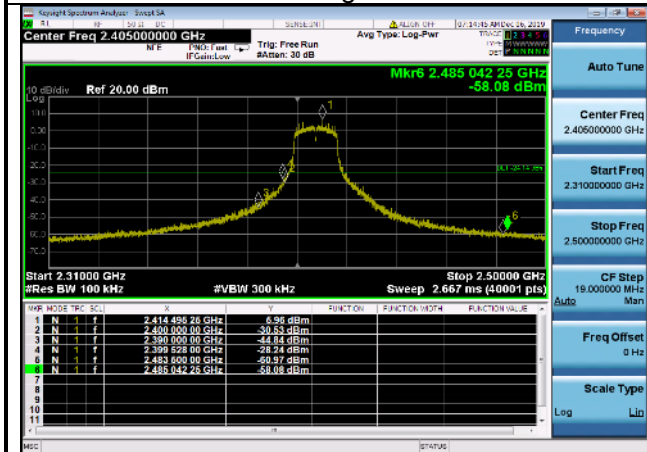
802.11g,2412MHz,Ant0,Plot 1,Reference Level



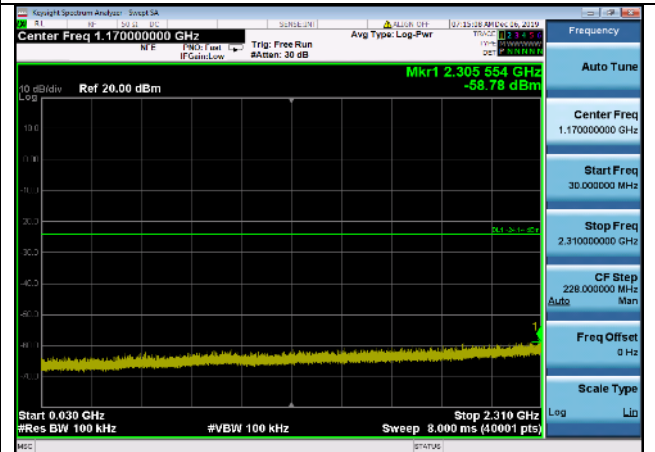
802.11g,2412MHz,Ant0,Plot 2,Band Edge



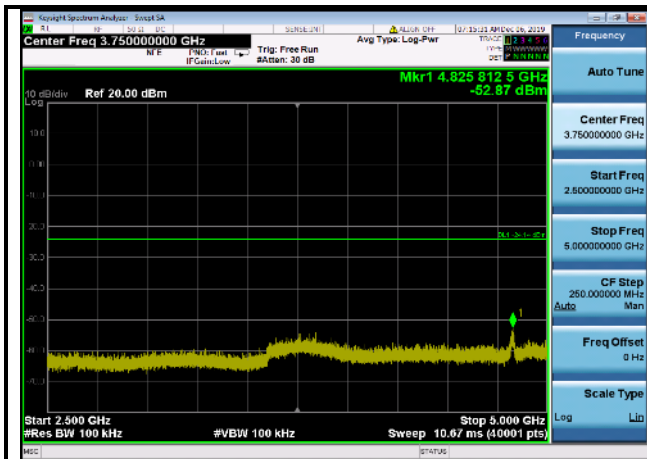
802.11g,2412MHz,Ant0,Plot 3,30MHz~2310MHz



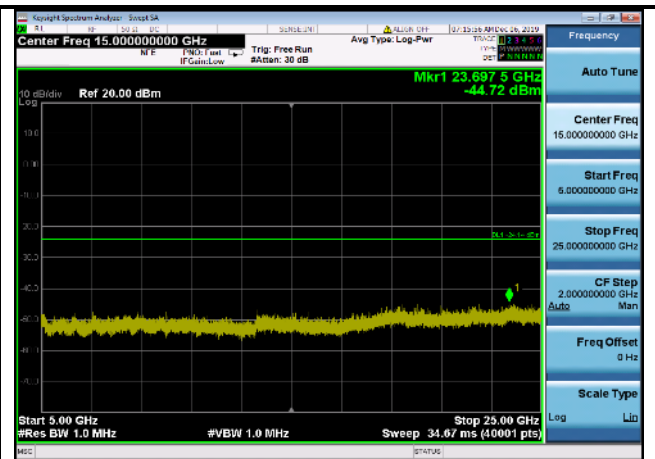
802.11g,2412MHz,Ant0,Plot 4,2500MHz~5000MHz



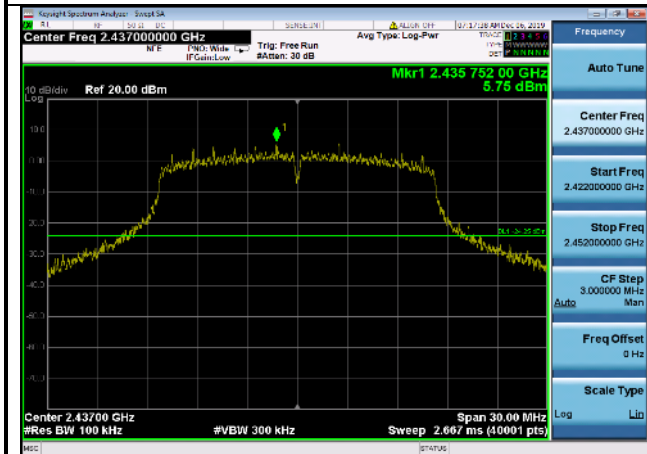
802.11g,2412MHz,Ant0,Plot 5,5000MHz~25000MHz



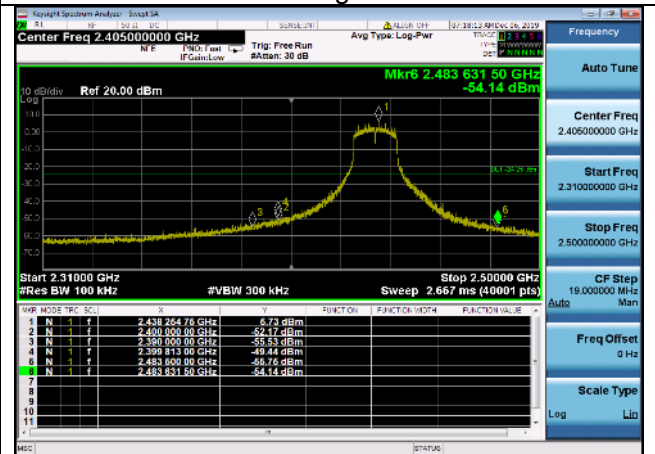
802.11g,2437MHz,Ant0,Plot 1,Reference Level



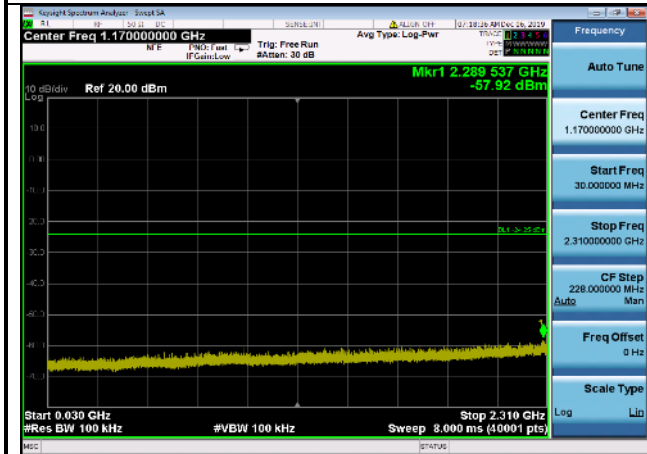
802.11g,2437MHz,Ant0,Plot 2,Band Edge



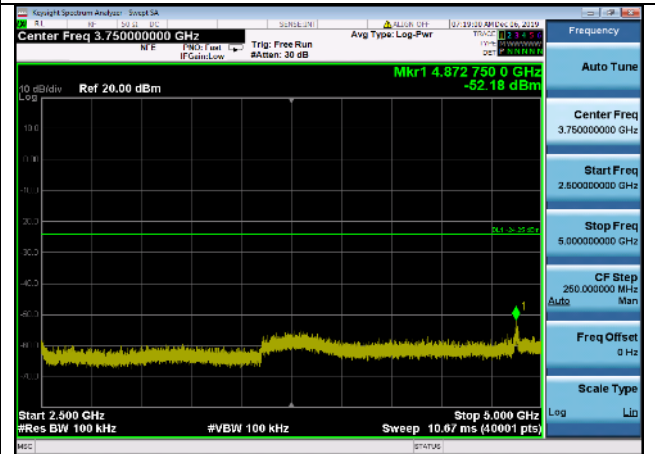
802.11g,2437MHz,Ant0,Plot 3,30MHz~231 0MHz



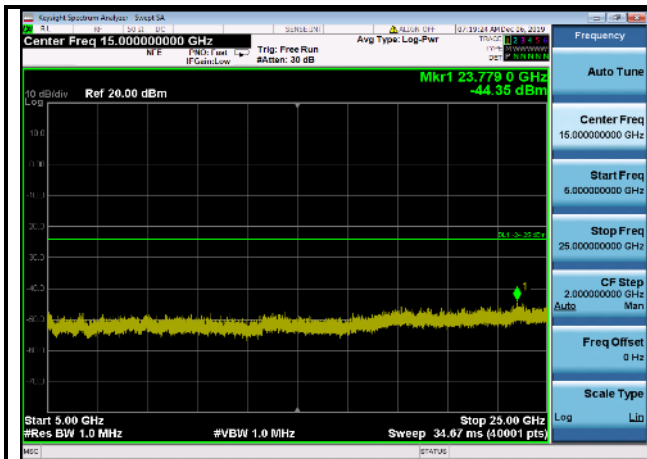
802.11g,2437MHz,Ant0,Plot 4,2500MHz~5 000MHz



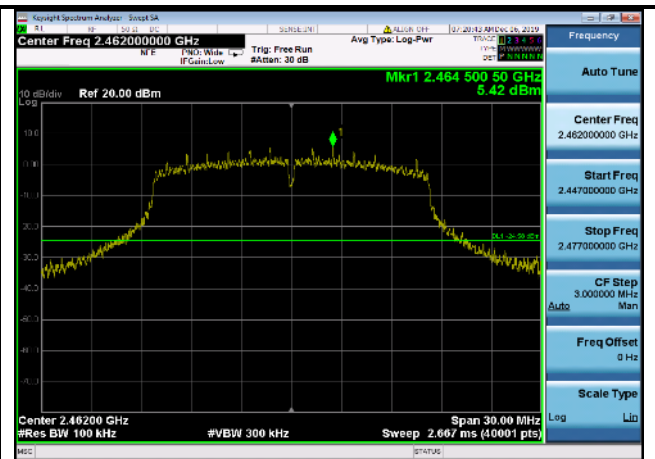
802.11g,2437MHz,Ant0,Plot 5,5000MHz~2 500MHz



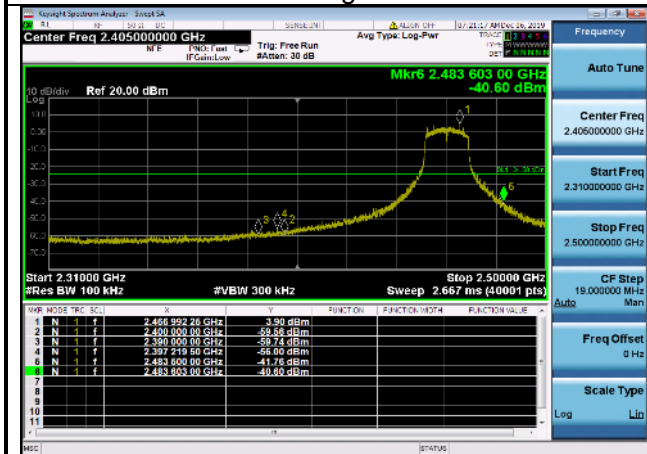
802.11g,2462MHz,Ant0,Plot 1,Reference Level



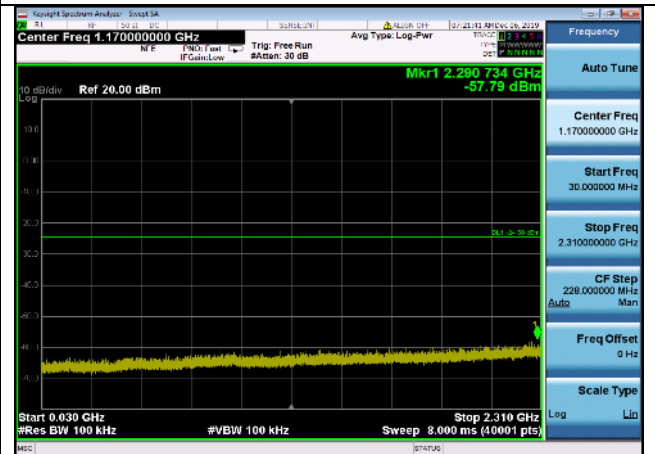
802.11g,2462MHz,Ant0,Plot 2,Band Edge



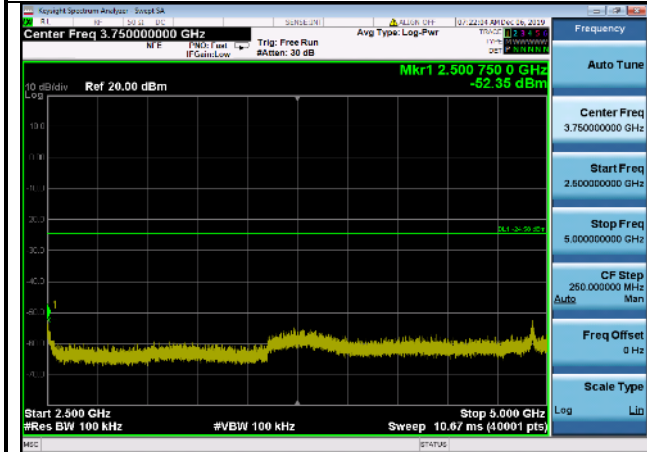
802.11g,2462MHz,Ant0,Plot 3,30MHz~2310MHz



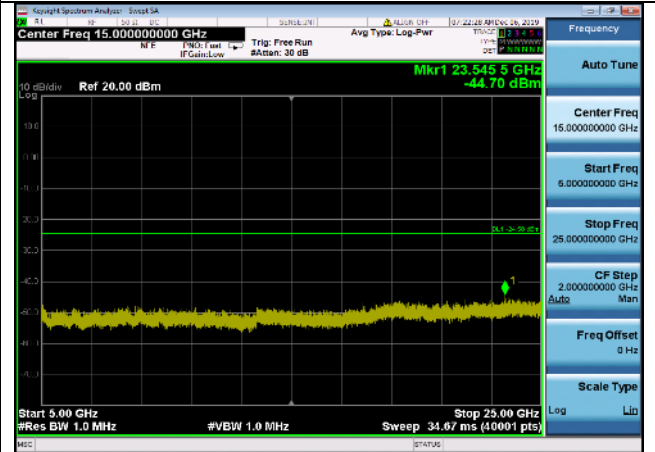
802.11g,2462MHz,Ant0,Plot 4,2500MHz~5000MHz



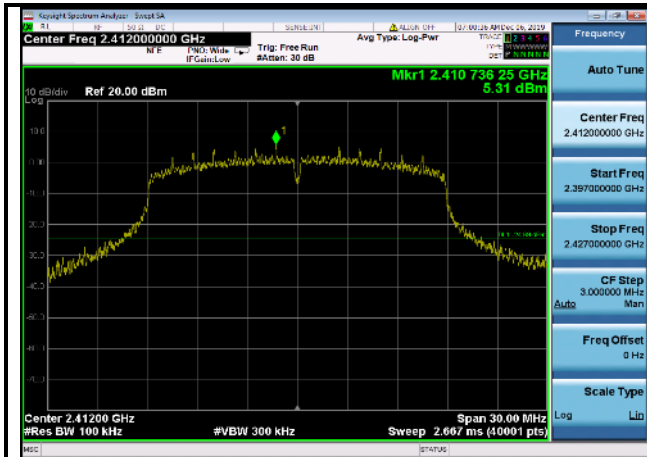
802.11g,2462MHz,Ant0,Plot 5,5000MHz~25000MHz



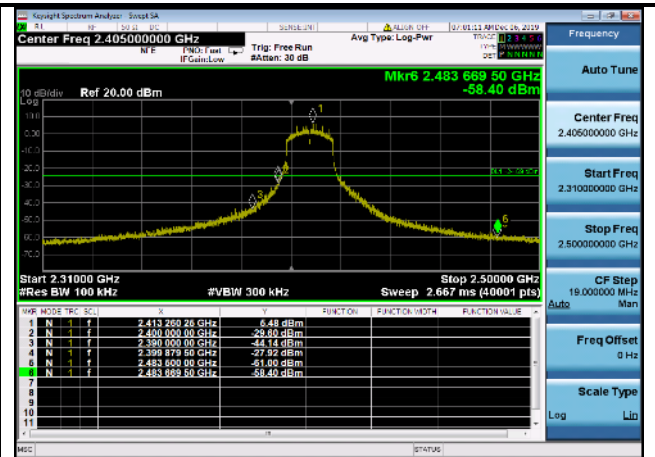
802.11n(HT20),2412MHz,Ant0,Plot 1,Reference Level



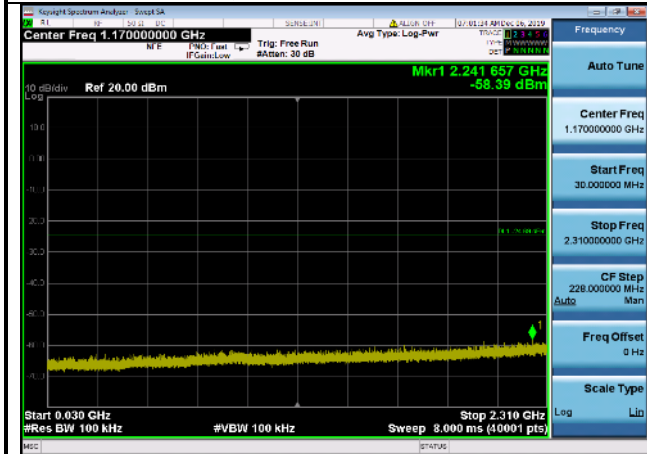
802.11n(HT20),2412MHz,Ant0,Plot 2,Band Edge



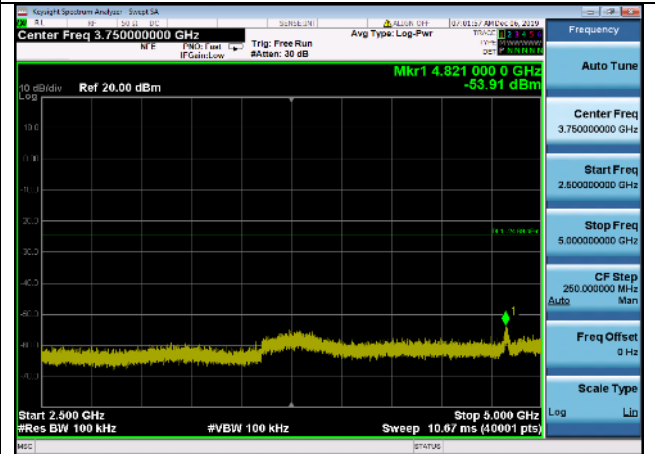
802.11n(HT20),2412MHz,Ant0,Plot
3,30MHz~2310MHz



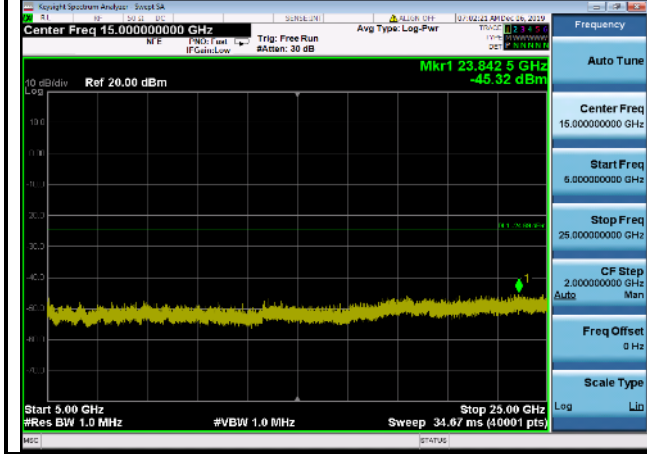
802.11n(HT20),2412MHz,Ant0,Plot
4,2500MHz~5000MHz



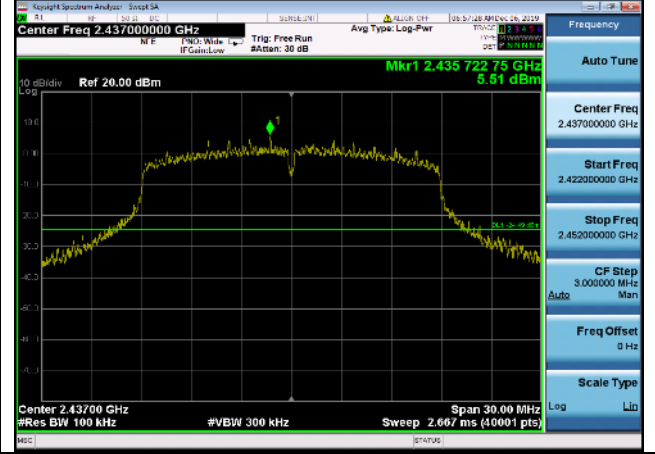
802.11n(HT20),2412MHz,Ant0,Plot
5,5000MHz~25000MHz



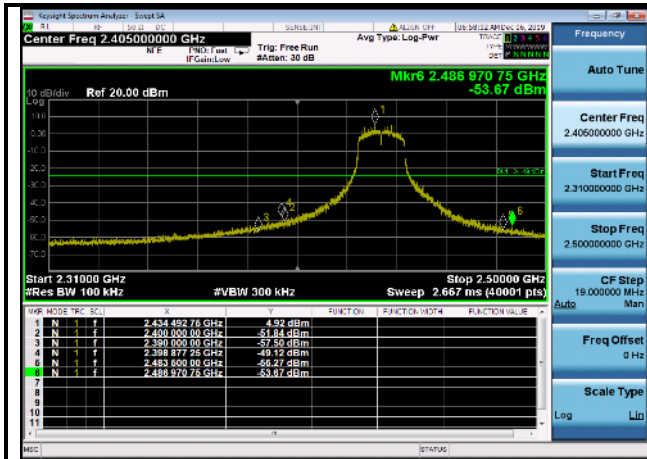
802.11n(HT20),2437MHz,Ant0,Plot
1,Reference Level



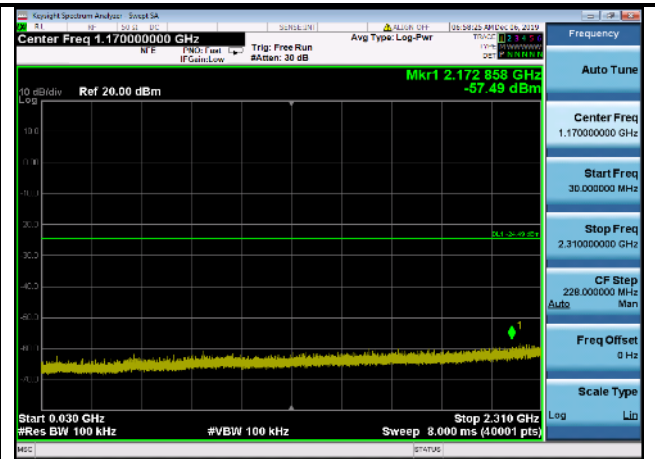
802.11n(HT20),2437MHz,Ant0,Plot
2,Band Edge



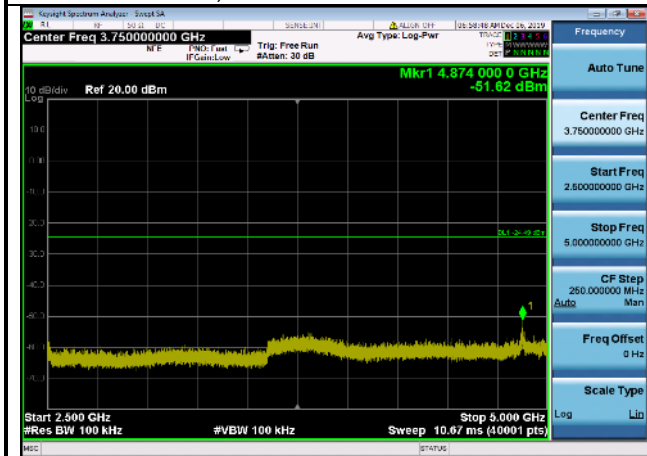
802.11n(HT20),2437MHz,Ant0,Plot
3,30MHz~2310MHz



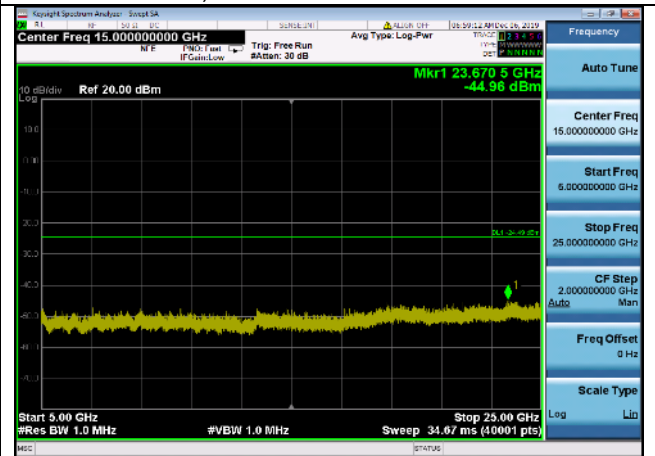
802.11n(HT20),2437MHz,Ant0,Plot 4,2500MHz~5000MHz



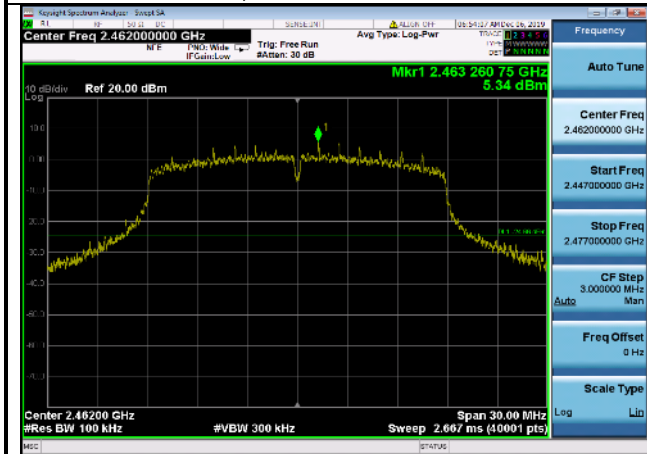
802.11n(HT20),2437MHz,Ant0,Plot 5,5000MHz~25000MHz



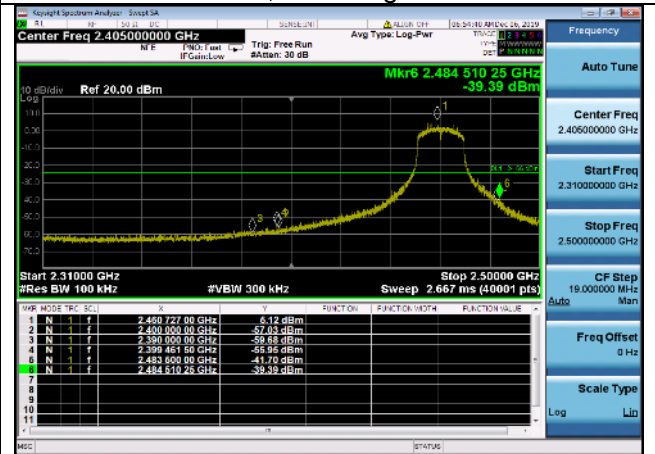
802.11n(HT20),2462MHz,Ant0,Plot 1,Reference Level



802.11n(HT20),2462MHz,Ant0,Plot 2,Band Edge



802.11n(HT20),2462MHz,Ant0,Plot 3,30MHz~2310MHz



802.11n(HT20),2462MHz,Ant0,Plot 4,2500MHz~5000MHz

