

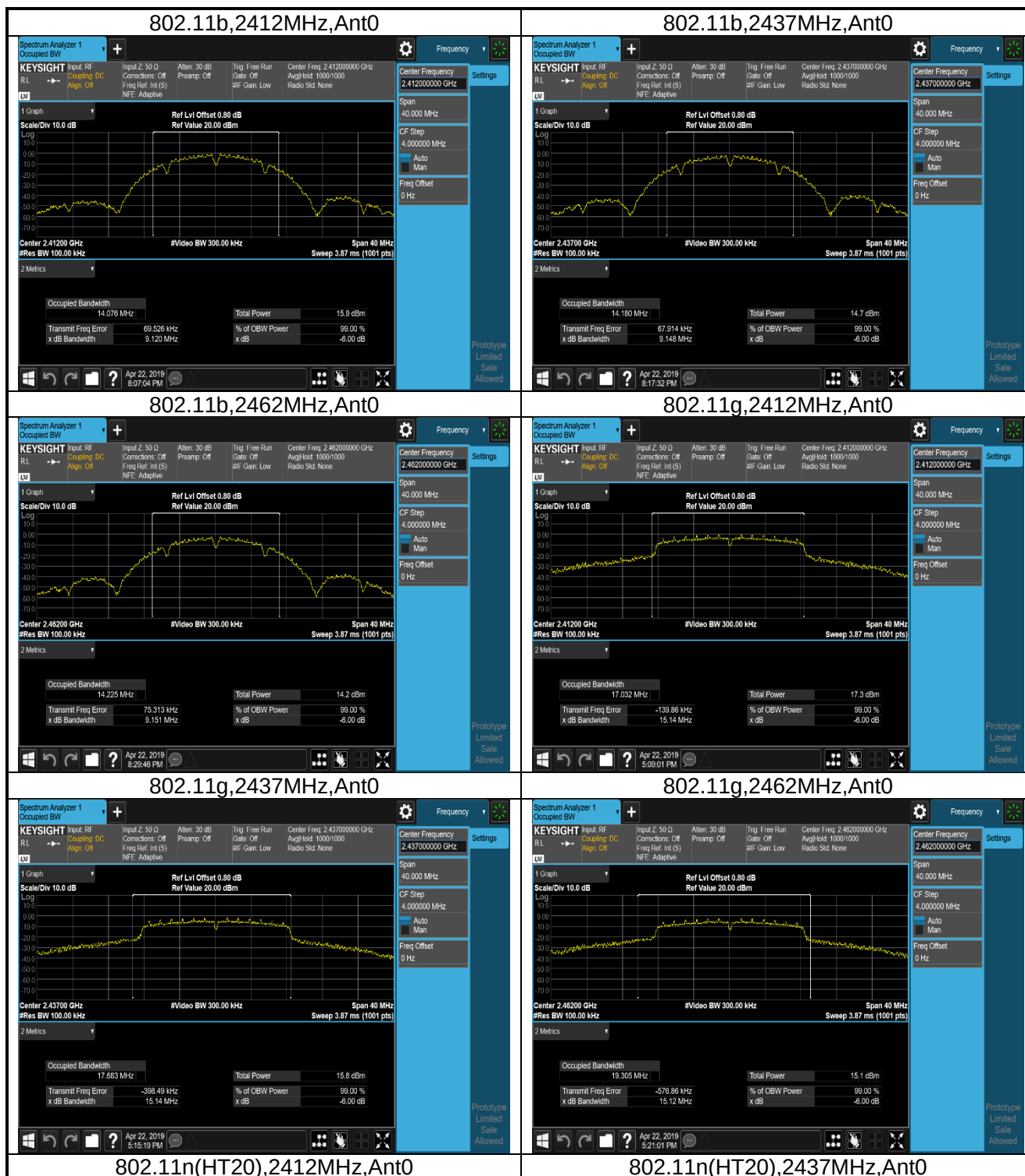
Appendix A: Test results

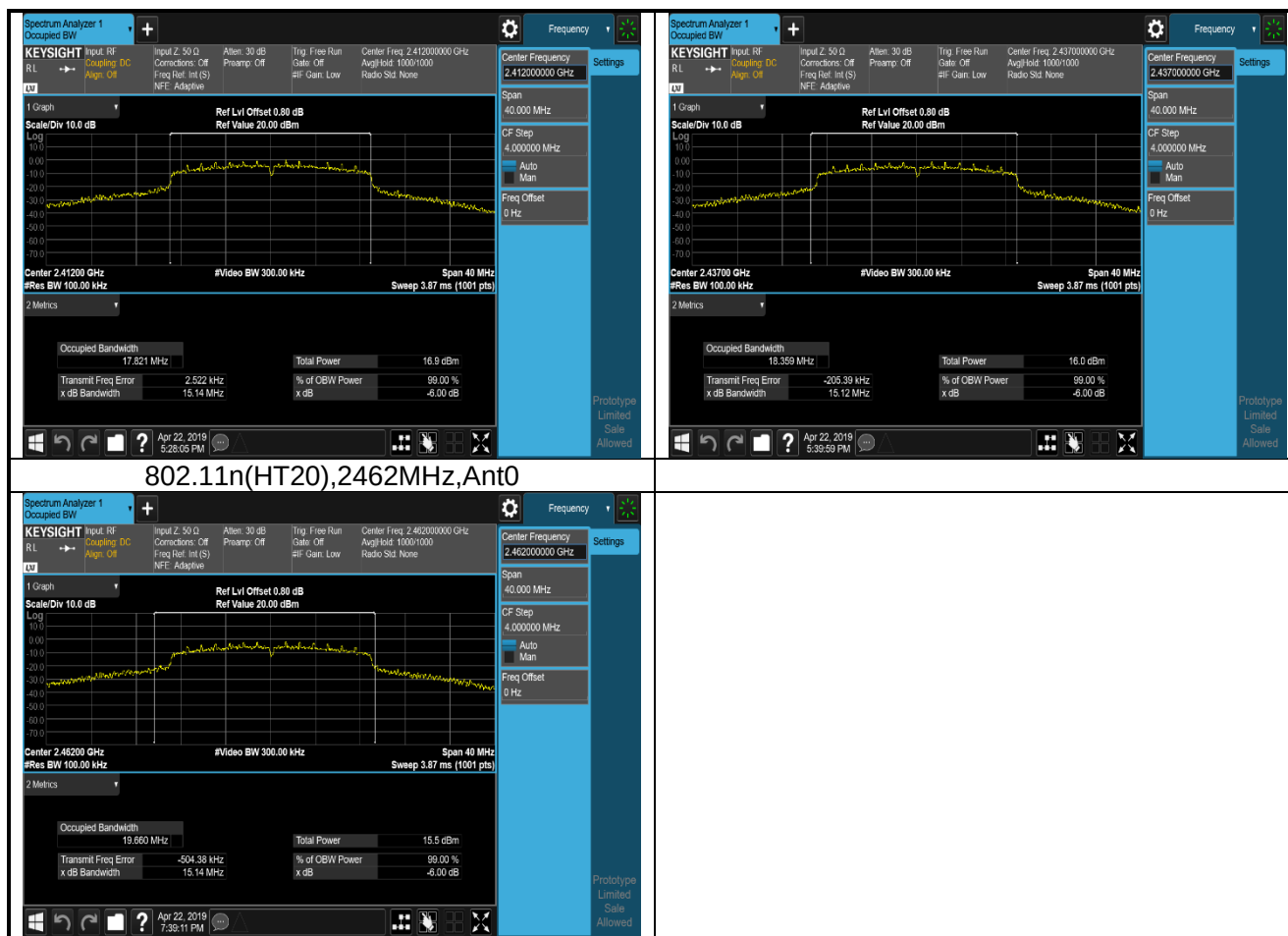
1. Minimum 6dB bandwidth

1.1 Test Data

WLAN Occupied 6dB Bandwidth				
Mode	Test Frequency (MHz)	Ant	Occupied Bandwidth (MHz)	Result
802.11b	2412	Ant0	9.12	Pass
802.11b	2437	Ant0	9.15	Pass
802.11b	2462	Ant0	9.15	Pass
802.11g	2412	Ant0	15.14	Pass
802.11g	2437	Ant0	15.14	Pass
802.11g	2462	Ant0	15.12	Pass
802.11n (HT20)	2412	Ant0	15.14	Pass
802.11n (HT20)	2437	Ant0	15.12	Pass
802.11n (HT20)	2462	Ant0	15.14	Pass

1.2 Test Plots



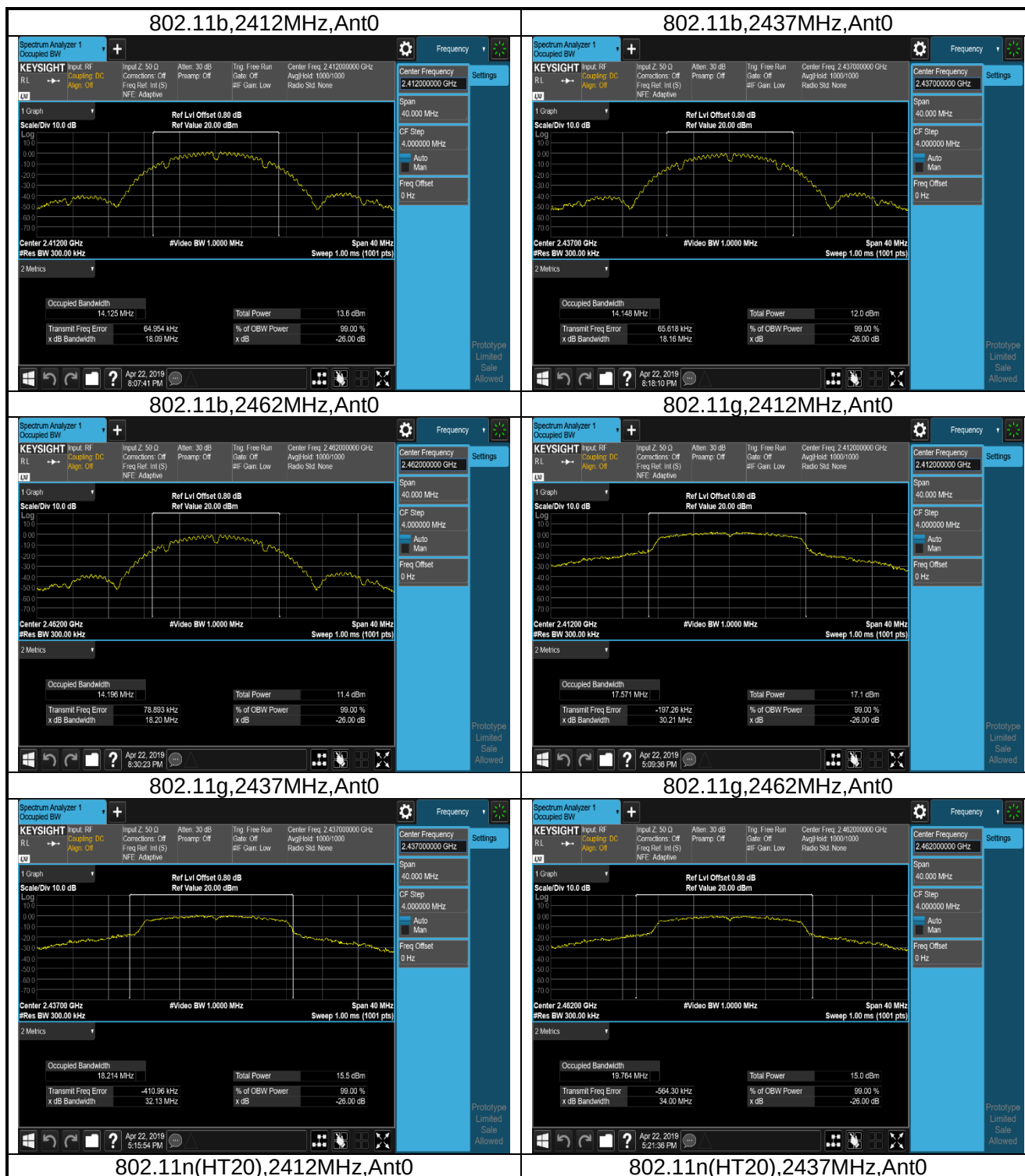


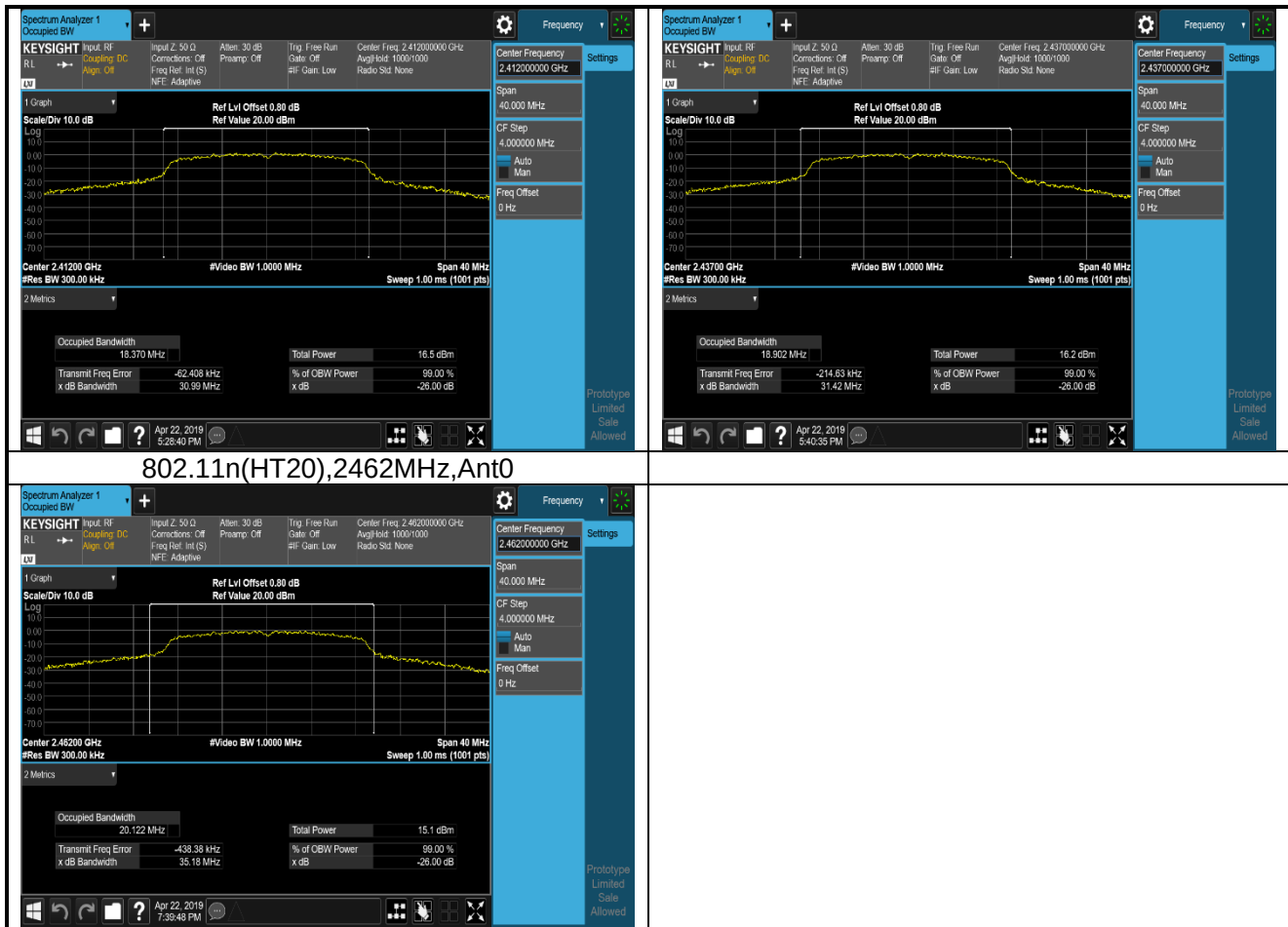
2. Occupied Bandwidth

2.1 Test Data

WLAN 99% Occupied Bandwidth				
Mode	Test Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Result
802.11b	2412	Ant0	14.125	Pass
802.11b	2437	Ant0	14.148	Pass
802.11b	2462	Ant0	14.196	Pass
802.11g	2412	Ant0	17.571	Pass
802.11g	2437	Ant0	18.214	Pass
802.11g	2462	Ant0	19.764	Pass
802.11n (HT20)	2412	Ant0	18.370	Pass
802.11n (HT20)	2437	Ant0	18.902	Pass
802.11n (HT20)	2462	Ant0	20.122	Pass

2.2 Test Plots





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

3.1 Test Data

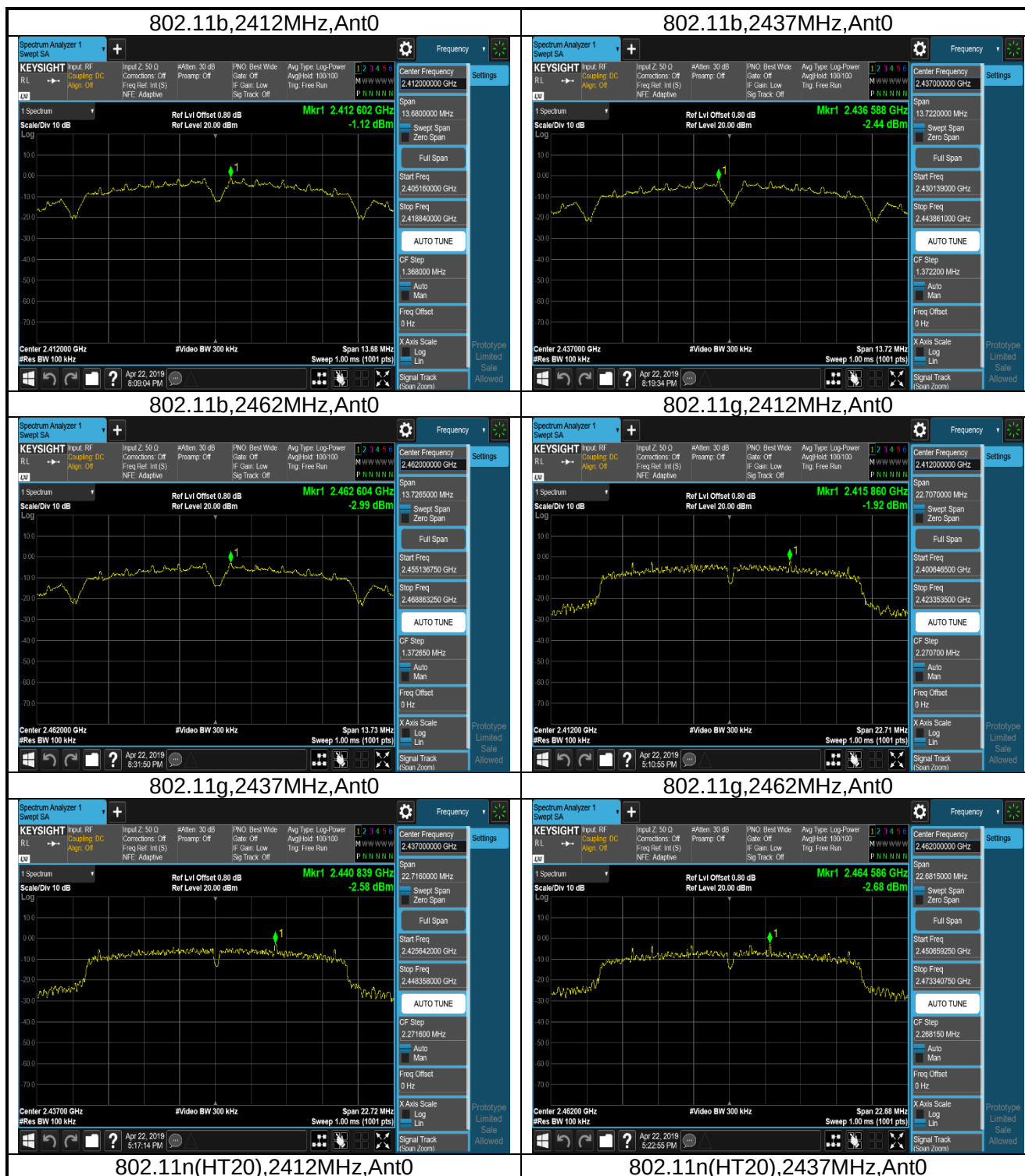
Mode	Test Frequency (MHz)	Ant	Max New Peak Power (dBm)	Limit (dBm)	EIRP (dBm)	Result
802.11b	2412	Ant0	13.30	30	18.20	Pass
802.11b	2437	Ant0	13.34	30	18.24	Pass
802.11b	2462	Ant0	12.39	30	17.29	Pass
802.11g	2412	Ant0	17.80	30	22.70	Pass
802.11g	2437	Ant0	17.92	30	22.82	Pass
802.11g	2462	Ant0	17.55	30	22.45	Pass
802.11n (HT20)	2412	Ant0	17.93	30	22.83	Pass
802.11n (HT20)	2437	Ant0	17.38	30	22.28	Pass
802.11n (HT20)	2462	Ant0	17.36	30	22.26	Pass

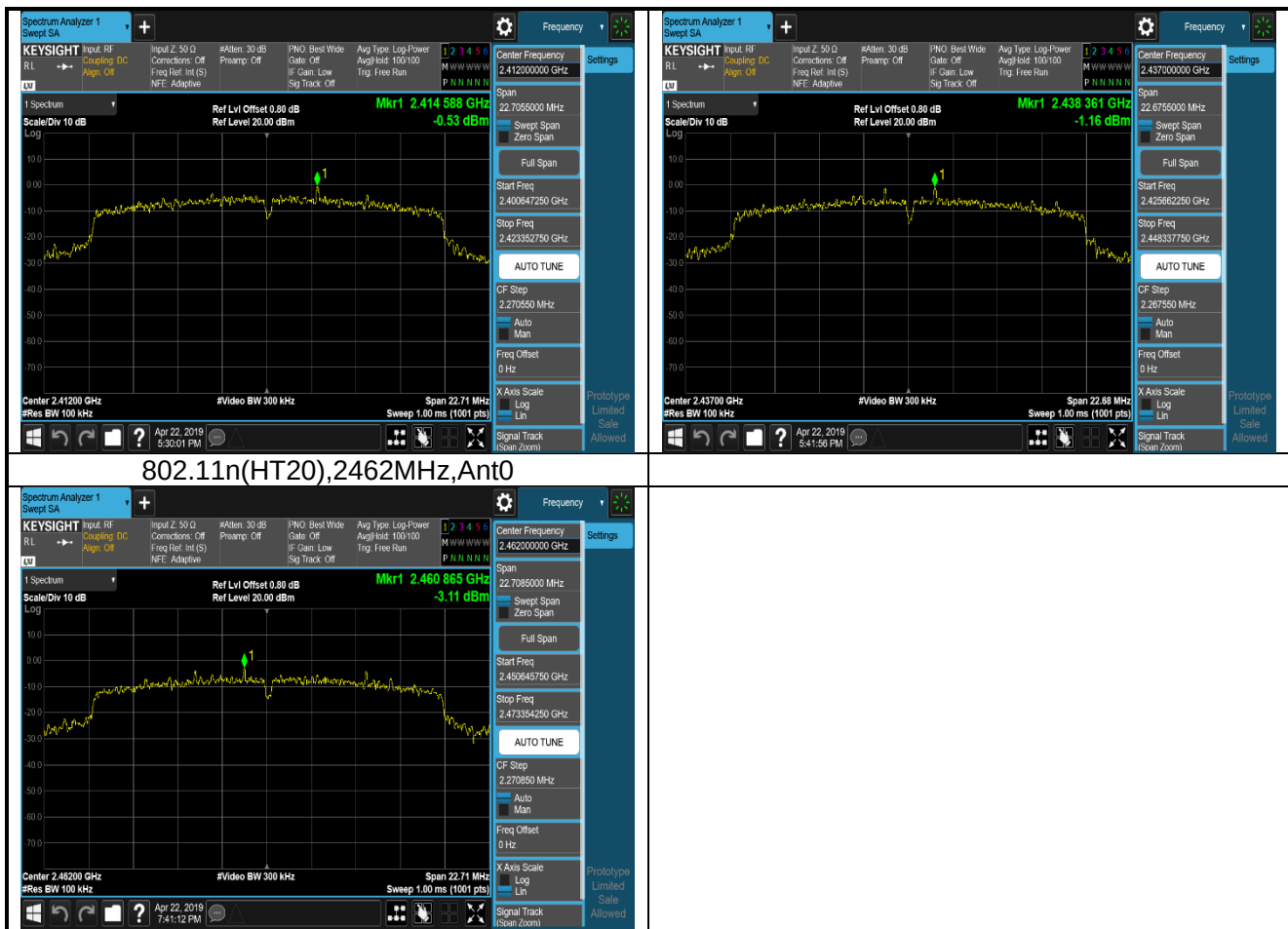
4. Power spectrum density

4.1 Test Data

Mode	Test Frequency (MHz)	Ant	PSD (dBm)	RBW (kHz)	Limit (dBm)	Result
802.11b	2412	Ant0	-1.12	100	8	Pass
802.11b	2437	Ant0	-2.44	100	8	Pass
802.11b	2462	Ant0	-2.99	100	8	Pass
802.11g	2412	Ant0	-1.92	100	8	Pass
802.11g	2437	Ant0	-2.58	100	8	Pass
802.11g	2462	Ant0	-2.68	100	8	Pass
802.11n (HT20)	2412	Ant0	-0.53	100	8	Pass
802.11n (HT20)	2437	Ant0	-1.16	100	8	Pass
802.11n (HT20)	2462	Ant0	-3.11	100	8	Pass

4.2 Test Plots





5. Emission outside the frequency band

5.1 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	-0.29	Pass
802.11b	2412	Ant0	2	Band Edge	-42.24	Pass
802.11b	2412	Ant0	3	30MHz~2310MHz	-46.41	Pass
802.11b	2412	Ant0	4	2500MHz~5000MHz	-54.62	Pass
802.11b	2412	Ant0	5	5000MHz~25000MHz	-41.98	Pass
802.11b	2437	Ant0	1	Reference Level	-2.47	Pass
802.11b	2437	Ant0	2	Band Edge	-52.87	Pass
802.11b	2437	Ant0	3	30MHz~2310MHz	-49.88	Pass
802.11b	2437	Ant0	4	2500MHz~5000MHz	-54.37	Pass
802.11b	2437	Ant0	5	5000MHz~25000MHz	-42.24	Pass
802.11b	2462	Ant0	1	Reference Level	-2.27	Pass
802.11b	2462	Ant0	2	Band Edge	-53.64	Pass
802.11b	2462	Ant0	3	30MHz~2310MHz	-49.57	Pass
802.11b	2462	Ant0	4	2500MHz~5000MHz	-53.70	Pass
802.11b	2462	Ant0	5	5000MHz~25000MHz	-42.33	Pass
802.11g	2412	Ant0	1	Reference Level	-0.09	Pass
802.11g	2412	Ant0	2	Band Edge	-24.77	Pass
802.11g	2412	Ant0	3	30MHz~2310MHz	-51.55	Pass
802.11g	2412	Ant0	4	2500MHz~5000MHz	-54.79	Pass
802.11g	2412	Ant0	5	5000MHz~25000MHz	-42.30	Pass
802.11g	2437	Ant0	1	Reference Level	-1.36	Pass
802.11g	2437	Ant0	2	Band Edge	-44.92	Pass
802.11g	2437	Ant0	3	30MHz~2310MHz	-53.35	Pass
802.11g	2437	Ant0	4	2500MHz~5000MHz	-49.20	Pass
802.11g	2437	Ant0	5	5000MHz~25000MHz	-41.17	Pass

802.11g	2462	Ant0	1	Reference Level	-2.93	Pass
802.11g	2462	Ant0	2	Band Edge	-37.36	Pass
802.11g	2462	Ant0	3	30MHz~2310MHz	-53.90	Pass
802.11g	2462	Ant0	4	2500MHz~5000MHz	-49.09	Pass
802.11g	2462	Ant0	5	5000MHz~25000MHz	-42.88	Pass
802.11n (HT20)	2412	Ant0	1	Reference Level	-0.48	Pass
802.11n (HT20)	2412	Ant0	2	Band Edge	-24.54	Pass
802.11n (HT20)	2412	Ant0	3	30MHz~2310MHz	-50.52	Pass
802.11n (HT20)	2412	Ant0	4	2500MHz~5000MHz	-55.13	Pass
802.11n (HT20)	2412	Ant0	5	5000MHz~25000MHz	-40.76	Pass
802.11n (HT20)	2437	Ant0	1	Reference Level	-1.58	Pass
802.11n (HT20)	2437	Ant0	2	Band Edge	-43.24	Pass
802.11n (HT20)	2437	Ant0	3	30MHz~2310MHz	-53.56	Pass
802.11n (HT20)	2437	Ant0	4	2500MHz~5000MHz	-47.90	Pass
802.11n (HT20)	2437	Ant0	5	5000MHz~25000MHz	-42.46	Pass
802.11n (HT20)	2462	Ant0	1	Reference Level	-2.16	Pass
802.11n (HT20)	2462	Ant0	2	Band Edge	-38.95	Pass
802.11n (HT20)	2462	Ant0	3	30MHz~2310MHz	-54.52	Pass
802.11n (HT20)	2462	Ant0	4	2500MHz~5000MHz	-50.13	Pass
802.11n (HT20)	2462	Ant0	5	5000MHz~25000MHz	-42.27	Pass

9.2 Test Plots

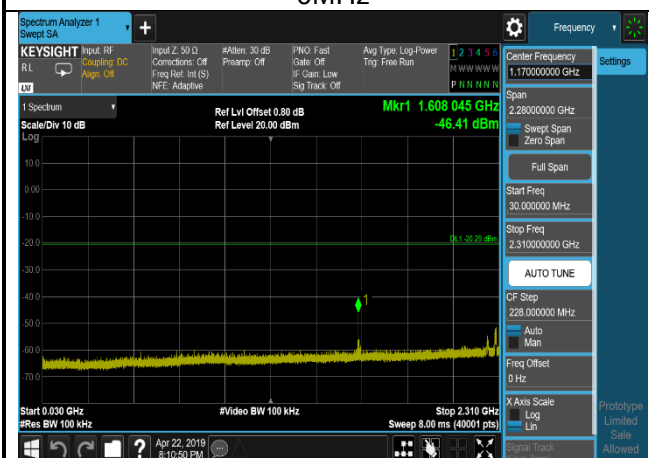
802.11b,2412MHz,Ant0,Plot 1,Reference Level



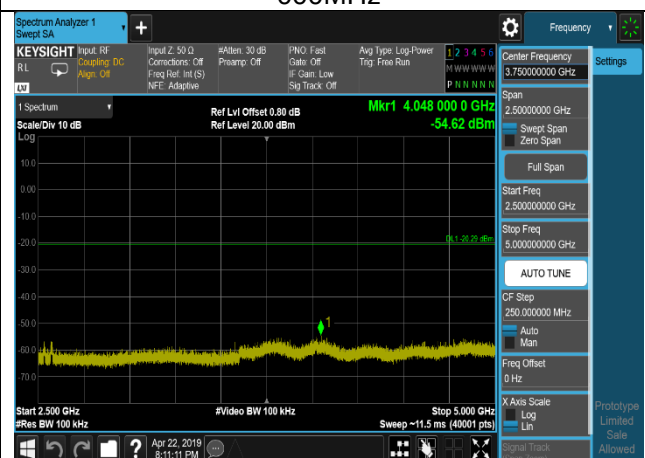
802.11b,2412MHz,Ant0,Plot 2,Band Edge



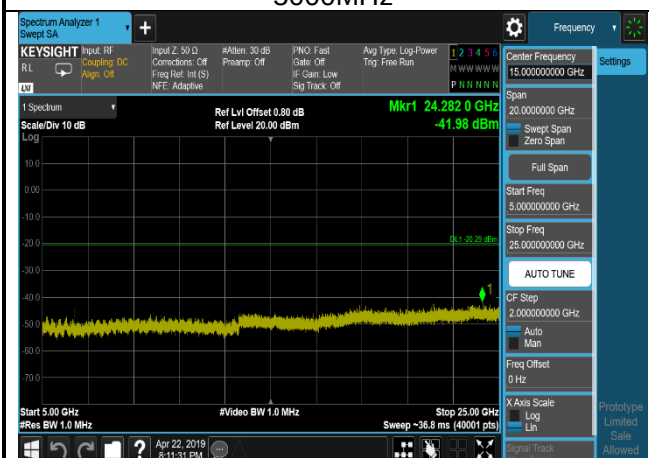
802.11b,2412MHz,Ant0,Plot 3,30MHz~2310MHz



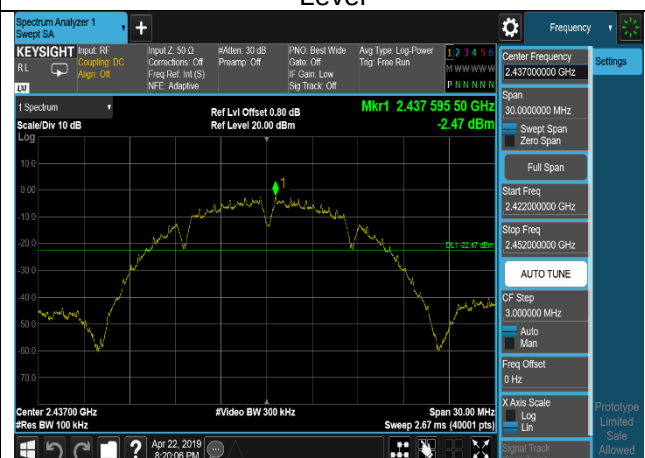
802.11b,2412MHz,Ant0,Plot 4,2500MHz~5000MHz



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

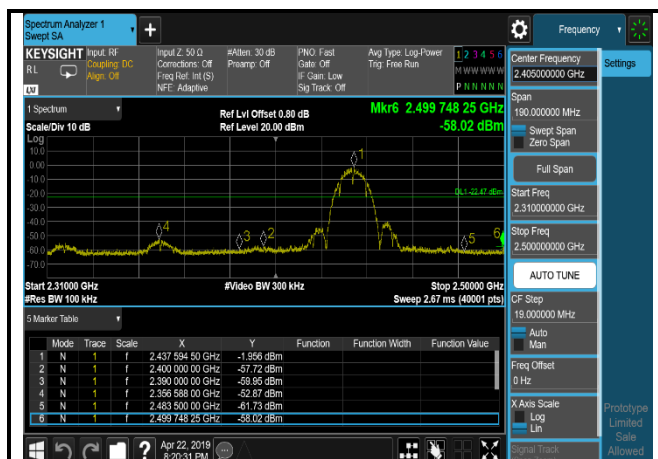


802.11b,2437MHz,Ant0,Plot 1,Reference Level

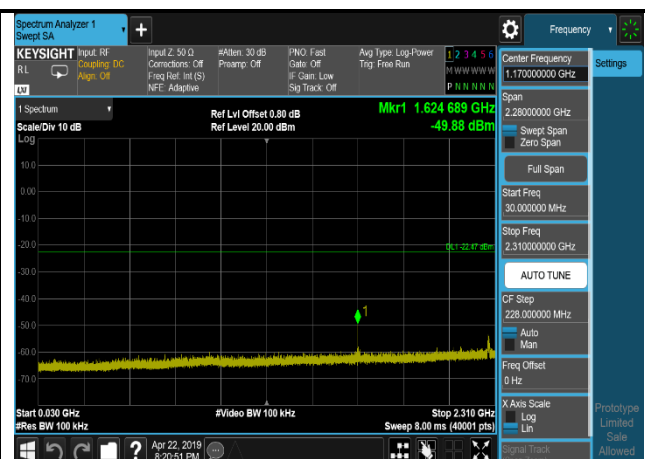


802.11b,2437MHz,Ant0,Plot 2,Band Edge

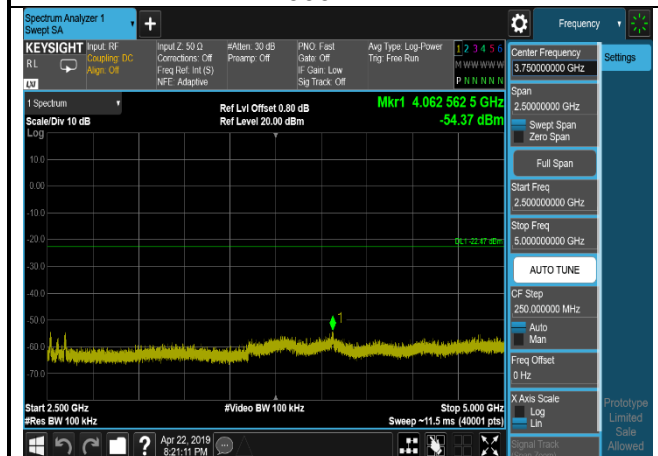
802.11b,2437MHz,Ant0,Plot 3,30MHz~2310MHz



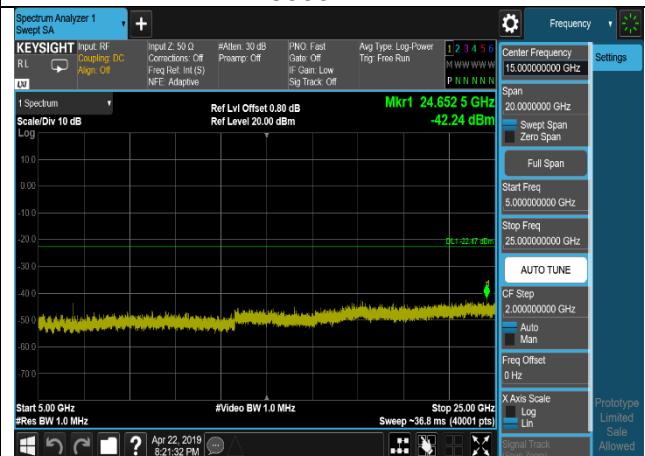
802.11b,2437MHz,Ant0,Plot 4,2500MHz~5000MHz



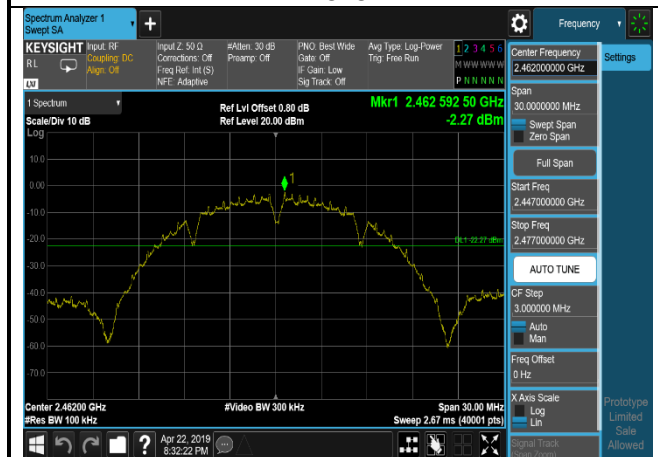
802.11b,2437MHz,Ant0,Plot 5,5000MHz~25000MHz



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

