

TEST REPORT

Appendix A: Test results

A.1 RF Output Power

A.1.1 Test Result and Data

Mode	Test Frequency (MHz)	Ant	Max Power (dBm)	Limit (dBm)	EIRP (dBm)	Result
802.11b	2412	Ant0	18.12	30	21.82	Pass
802.11b	2437	Ant0	18.02	30	21.72	Pass
802.11b	2462	Ant0	17.99	30	21.69	Pass
802.11g	2412	Ant0	14.41	30	18.11	Pass
802.11g	2437	Ant0	14.07	30	17.77	Pass
802.11g	2462	Ant0	14.16	30	17.86	Pass
802.11n (HT20)	2412	Ant0	14.04	30	17.74	Pass
802.11n (HT20)	2437	Ant0	13.84	30	17.54	Pass
802.11n (HT20)	2462	Ant0	14.36	30	18.06	Pass
802.11n (HT40)	2422	Ant0	12.99	30	16.69	Pass
802.11n (HT40)	2437	Ant0	13.04	30	16.74	Pass
802.11n (HT40)	2452	Ant0	13.04	30	16.74	Pass

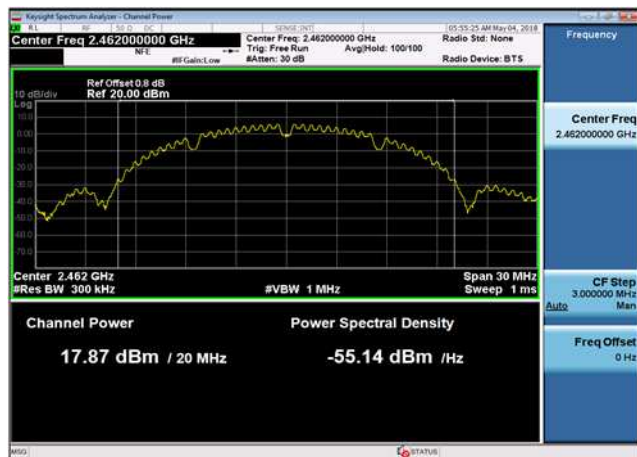
802.11b,2412MHz,Ant0



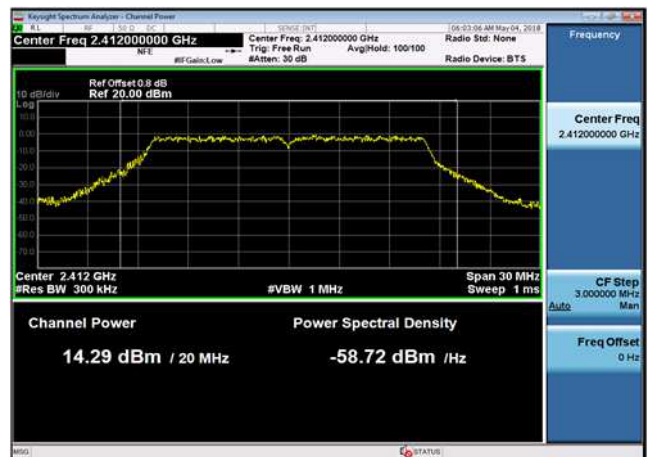
802.11b,2437MHz,Ant0



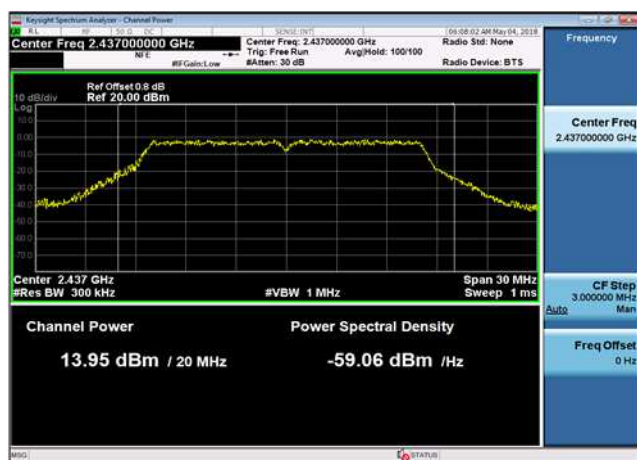
802.11b,2462MHz,Ant0



802.11g,2412MHz,Ant0

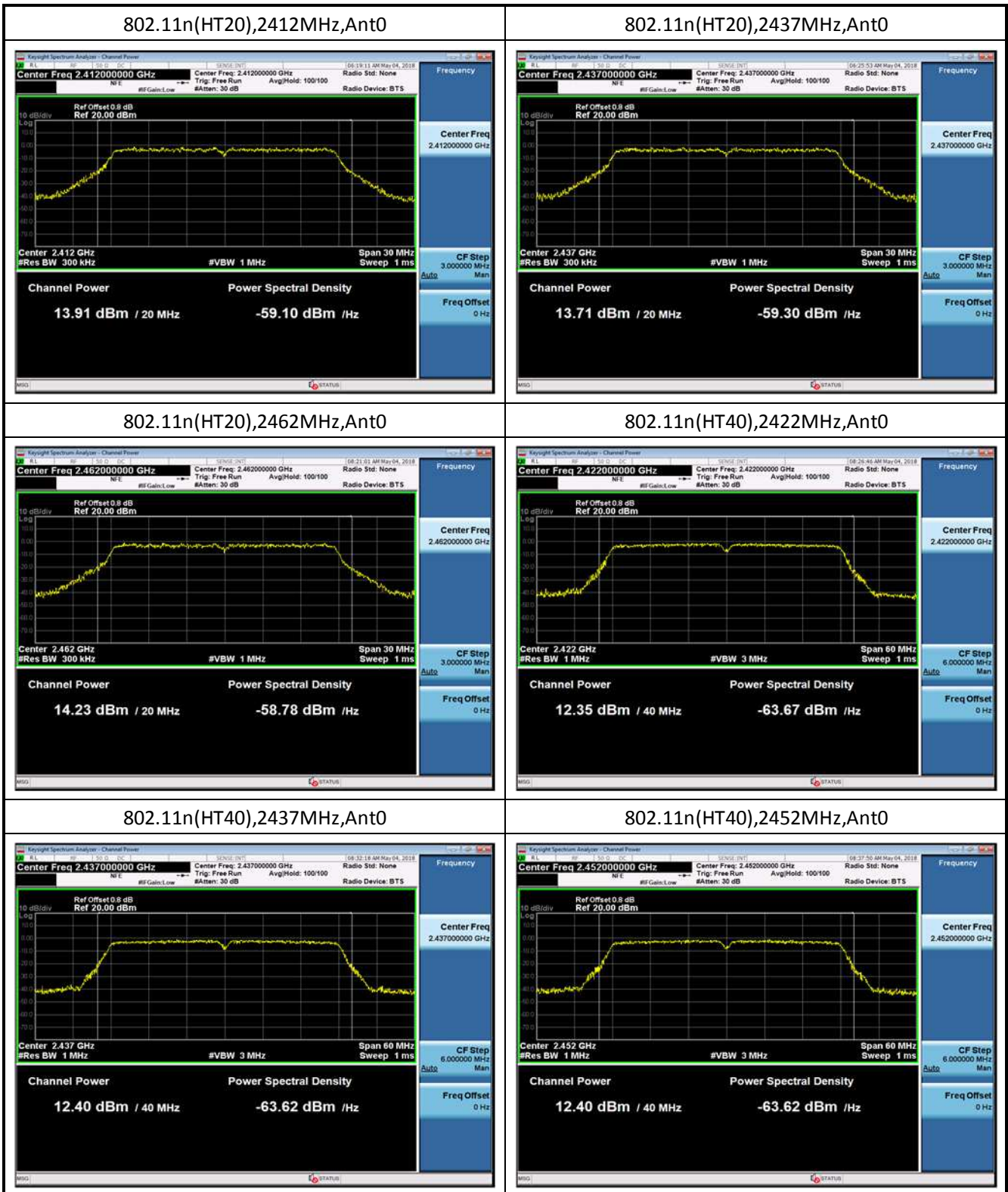


802.11g,2437MHz,Ant0



802.11g,2462MHz,Ant0





TEST REPORT

A.2 6dB Down Bandwidth

A.2.1 Test Result and Data

WLAN Occupied 6dB Bandwidth				
Mode	Test Frequency (MHz)	Ant	Occupied Bandwidth (MHz)	Result
802.11b	2412	Ant0	10.07	Pass
802.11b	2437	Ant0	10.07	Pass
802.11b	2462	Ant0	10.05	Pass
802.11g	2412	Ant0	16.58	Pass
802.11g	2437	Ant0	16.59	Pass
802.11g	2462	Ant0	16.57	Pass
802.11n (HT20)	2412	Ant0	17.82	Pass
802.11n (HT20)	2437	Ant0	17.85	Pass
802.11n (HT20)	2462	Ant0	17.85	Pass
802.11n (HT40)	2422	Ant0	36.48	Pass
802.11n (HT40)	2437	Ant0	36.48	Pass
802.11n (HT40)	2452	Ant0	36.48	Pass

802.11b,2412MHz,Ant0



802.11b,2437MHz,Ant0



802.11b,2462MHz,Ant0



802.11g,2412MHz,Ant0

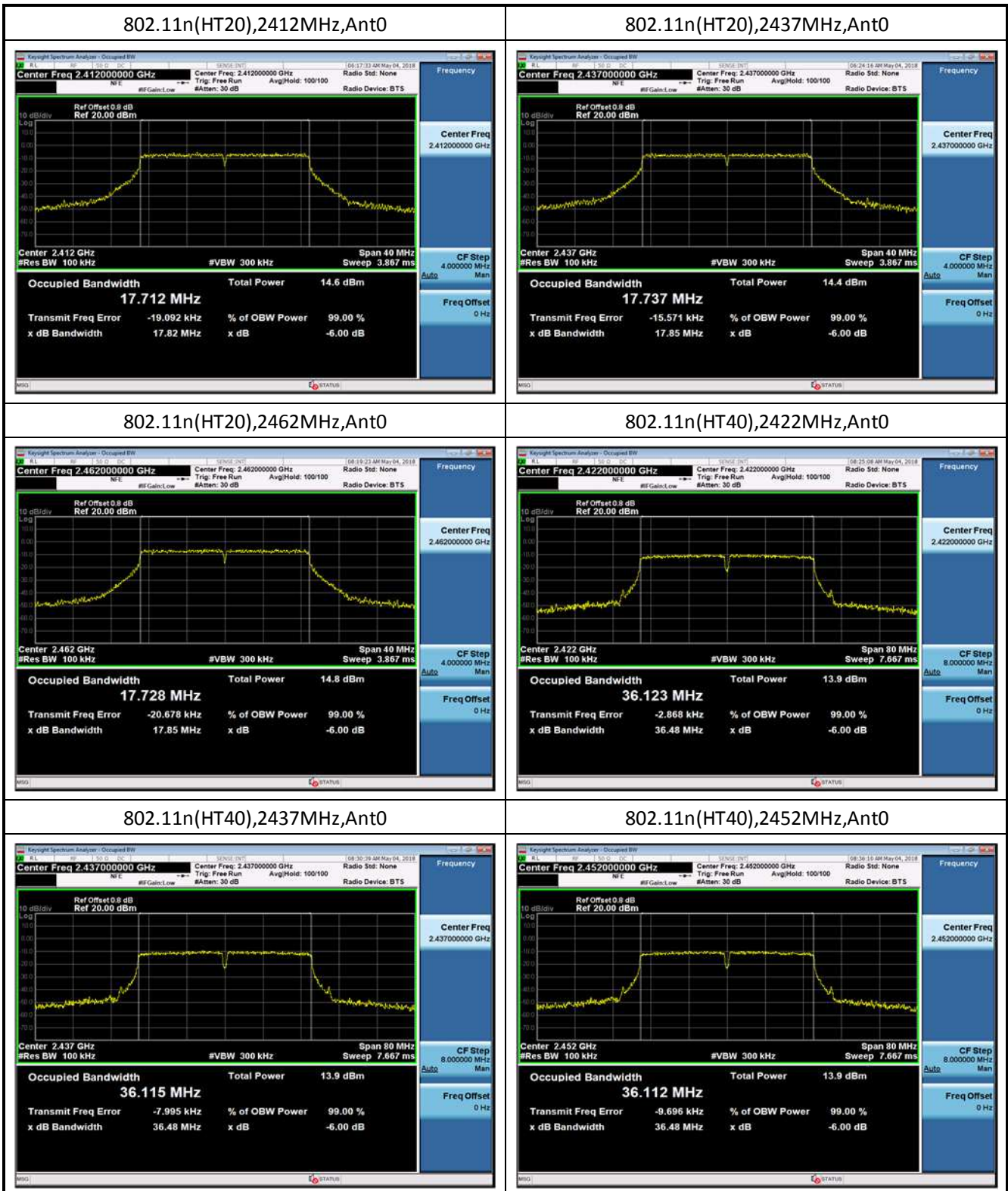


802.11g,2437MHz,Ant0



802.11g,2462MHz,Ant0





TEST REPORT

A.3 99% BandWidth

A.3.1 Test Result and Data

WLAN 99% Occupied Bandwidth				
Mode	Test Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Result
802.11b	2412	Ant0	14.972	Pass
802.11b	2437	Ant0	14.932	Pass
802.11b	2462	Ant0	14.913	Pass
802.11g	2412	Ant0	16.955	Pass
802.11g	2437	Ant0	16.901	Pass
802.11g	2462	Ant0	16.886	Pass
802.11n (HT20)	2412	Ant0	17.972	Pass
802.11n (HT20)	2437	Ant0	17.969	Pass
802.11n (HT20)	2462	Ant0	18.025	Pass
802.11n (HT40)	2422	Ant0	36.519	Pass
802.11n (HT40)	2437	Ant0	36.508	Pass
802.11n (HT40)	2452	Ant0	36.653	Pass

802.11b,2412MHz,Ant0



802.11b,2437MHz,Ant0



802.11b,2462MHz,Ant0



802.11g,2412MHz,Ant0

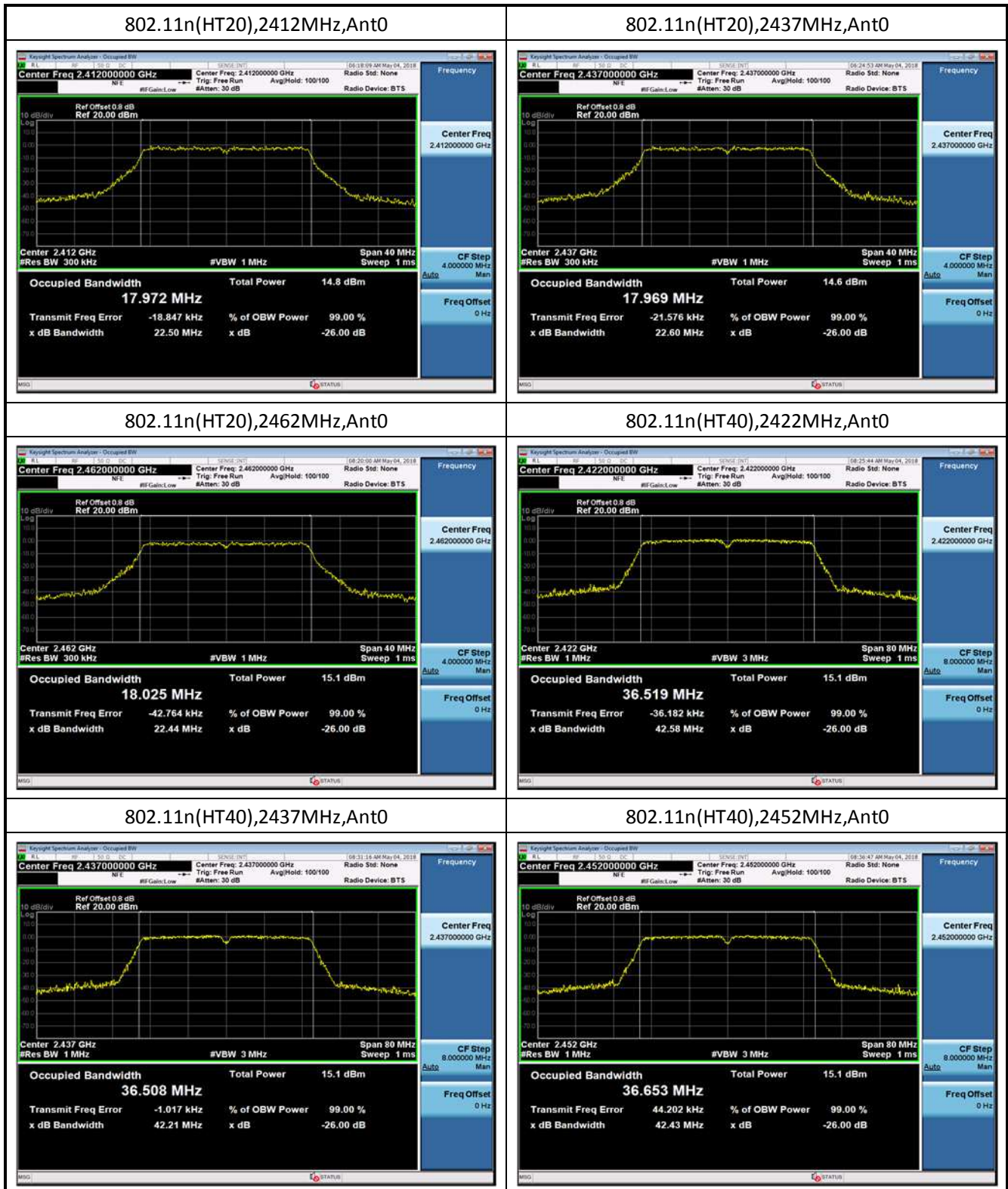


802.11g,2437MHz,Ant0



802.11g,2462MHz,Ant0





TEST REPORT

A.4 Power Spectral Density

A.4.1 Test Result and Data

Mode	Test Frequency (MHz)	Ant	PSD (dBm)	RBW (kHz)	Limit (dBm)	Result
802.11b	2412	Ant0	4.232	100	8	Pass
802.11b	2437	Ant0	4.250	100	8	Pass
802.11b	2462	Ant0	4.308	100	8	Pass
802.11g	2412	Ant0	-5.556	100	8	Pass
802.11g	2437	Ant0	-5.927	100	8	Pass
802.11g	2462	Ant0	-5.810	100	8	Pass
802.11n (HT20)	2412	Ant0	-5.714	100	8	Pass
802.11n (HT20)	2437	Ant0	-6.114	100	8	Pass
802.11n (HT20)	2462	Ant0	-5.851	100	8	Pass
802.11n (HT40)	2422	Ant0	-9.734	100	8	Pass
802.11n (HT40)	2437	Ant0	-9.846	100	8	Pass
802.11n (HT40)	2452	Ant0	-9.806	100	8	Pass

802.11b,2412MHz,Ant0



802.11b,2437MHz,Ant0



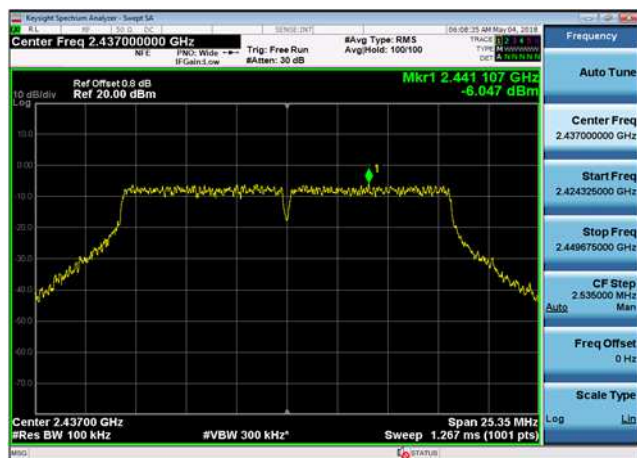
802.11b,2462MHz,Ant0



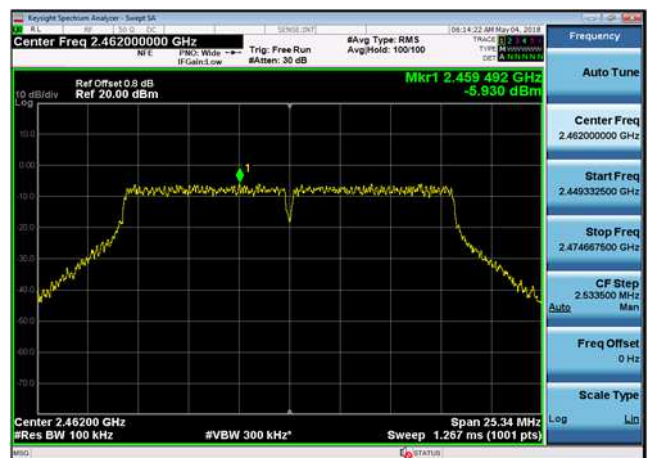
802.11g,2412MHz,Ant0



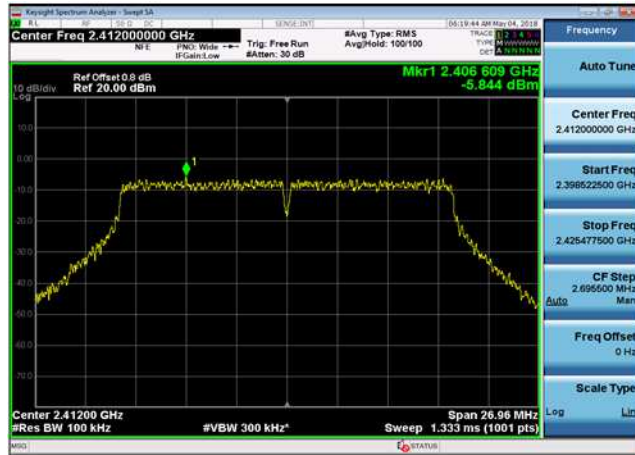
802.11g,2437MHz,Ant0



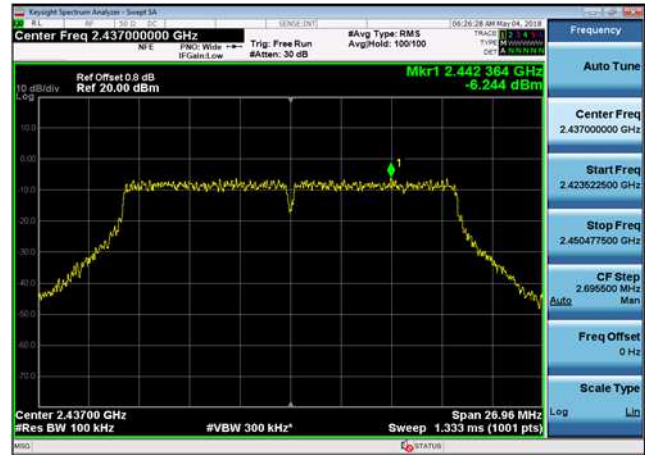
802.11g,2462MHz,Ant0



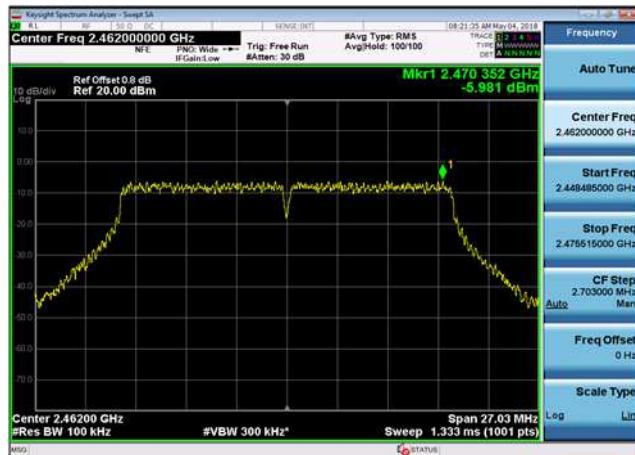
802.11n(HT20),2412MHz,Ant0



802.11n(HT20),2437MHz,Ant0



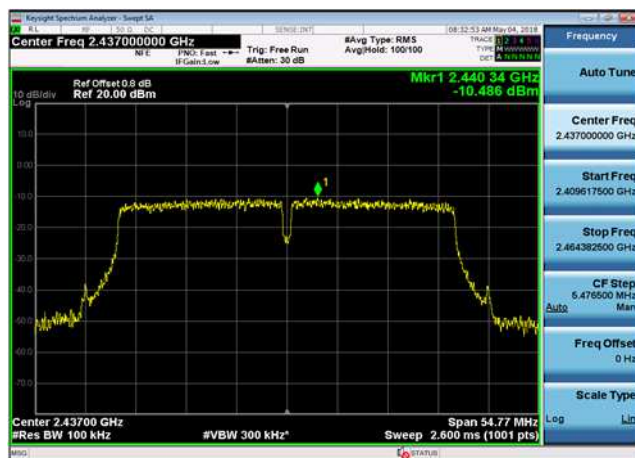
802.11n(HT20),2462MHz,Ant0



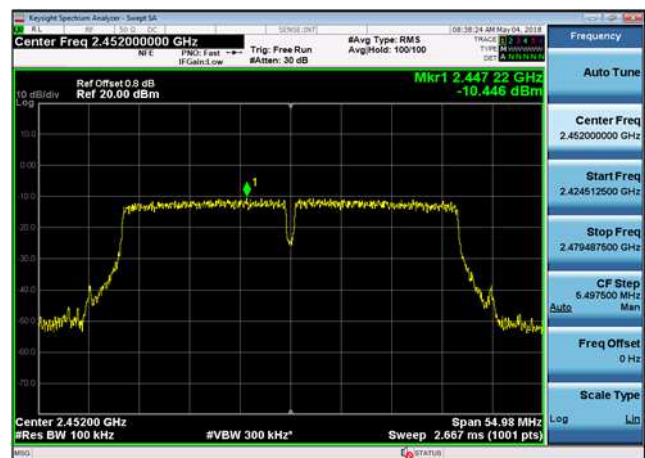
802.11n(HT40),2422MHz,Ant0



802.11n(HT40),2437MHz,Ant0



802.11n(HT40),2452MHz,Ant0



TEST REPORT

A.5 Transmitter Spurious Emission

A.5.1 Test Result and Data

WLAN Transmitter Spurious Emission						
Mode	Test Frequency (MHz)	Ant	Plot No.	Frequency Range	Emission (dBm)	Result
802.11b	2412	Ant0	1	Reference Level	4.36	Pass
802.11b	2412	Ant0	2	Band Edge	-34.10	Pass
802.11b	2412	Ant0	3	30MHz~2310MHz	-57.46	Pass
802.11b	2412	Ant0	4	2500MHz~5000MHz	-35.08	Pass
802.11b	2412	Ant0	5	5000MHz~25000MHz	-43.53	Pass
802.11b	2437	Ant0	1	Reference Level	4.41	Pass
802.11b	2437	Ant0	2	Band Edge	-54.54	Pass
802.11b	2437	Ant0	3	30MHz~2310MHz	-57.37	Pass
802.11b	2437	Ant0	4	2500MHz~5000MHz	-36.17	Pass
802.11b	2437	Ant0	5	5000MHz~25000MHz	-44.47	Pass
802.11b	2462	Ant0	1	Reference Level	4.24	Pass
802.11b	2462	Ant0	2	Band Edge	-54.26	Pass
802.11b	2462	Ant0	3	30MHz~2310MHz	-57.11	Pass
802.11b	2462	Ant0	4	2500MHz~5000MHz	-37.36	Pass
802.11b	2462	Ant0	5	5000MHz~25000MHz	-43.24	Pass
802.11g	2412	Ant0	1	Reference Level	-5.48	Pass
802.11g	2412	Ant0	2	Band Edge	-38.91	Pass
802.11g	2412	Ant0	3	30MHz~2310MHz	-57.46	Pass
802.11g	2412	Ant0	4	2500MHz~5000MHz	-45.41	Pass
802.11g	2412	Ant0	5	5000MHz~25000MHz	-43.76	Pass
802.11g	2437	Ant0	1	Reference Level	-5.64	Pass
802.11g	2437	Ant0	2	Band Edge	-53.97	Pass
802.11g	2437	Ant0	3	30MHz~2310MHz	-57.29	Pass
802.11g	2437	Ant0	4	2500MHz~5000MHz	-47.07	Pass
802.11g	2437	Ant0	5	5000MHz~25000MHz	-43.64	Pass
802.11g	2462	Ant0	1	Reference Level	-5.8	Pass

TEST REPORT

802.11g	2462	Ant0	2	Band Edge	-52.27	Pass
802.11g	2462	Ant0	3	30MHz~2310MHz	-57.34	Pass
802.11g	2462	Ant0	4	2500MHz~5000MHz	-47.12	Pass
802.11g	2462	Ant0	5	5000MHz~25000MHz	-43.74	Pass
802.11n (HT20)	2412	Ant0	1	Reference Level	-5.54	Pass
802.11n (HT20)	2412	Ant0	2	Band Edge	-36.69	Pass
802.11n (HT20)	2412	Ant0	3	30MHz~2310MHz	-57.18	Pass
802.11n (HT20)	2412	Ant0	4	2500MHz~5000MHz	-44.80	Pass
802.11n (HT20)	2412	Ant0	5	5000MHz~25000MHz	-44.26	Pass
802.11n (HT20)	2437	Ant0	1	Reference Level	-5.37	Pass
802.11n (HT20)	2437	Ant0	2	Band Edge	-52.08	Pass
802.11n (HT20)	2437	Ant0	3	30MHz~2310MHz	-57.63	Pass
802.11n (HT20)	2437	Ant0	4	2500MHz~5000MHz	-47.18	Pass
802.11n (HT20)	2437	Ant0	5	5000MHz~25000MHz	-43.91	Pass
802.11n (HT20)	2462	Ant0	1	Reference Level	-5.11	Pass
802.11n (HT20)	2462	Ant0	2	Band Edge	-49.85	Pass
802.11n (HT20)	2462	Ant0	3	30MHz~2310MHz	-57.46	Pass
802.11n (HT20)	2462	Ant0	4	2500MHz~5000MHz	-47.06	Pass
802.11n (HT20)	2462	Ant0	5	5000MHz~25000MHz	-43.65	Pass
802.11n (HT40)	2422	Ant0	1	Reference Level	-9.41	Pass
802.11n (HT40)	2422	Ant0	2	Band Edge	-40.58	Pass

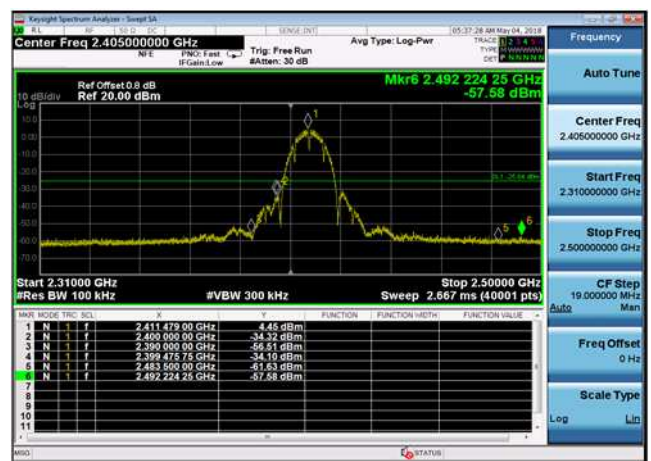
TEST REPORT

802.11n (HT40)	2422	Ant0	3	30MHz~2310MHz	-57.79	Pass
802.11n (HT40)	2422	Ant0	4	2500MHz~5000MHz	-45.80	Pass
802.11n (HT40)	2422	Ant0	5	5000MHz~25000MHz	-43.74	Pass
802.11n (HT40)	2437	Ant0	1	Reference Level	-9.37	Pass
802.11n (HT40)	2437	Ant0	2	Band Edge	-50.56	Pass
802.11n (HT40)	2437	Ant0	3	30MHz~2310MHz	-57.52	Pass
802.11n (HT40)	2437	Ant0	4	2500MHz~5000MHz	-46.86	Pass
802.11n (HT40)	2437	Ant0	5	5000MHz~25000MHz	-43.89	Pass
802.11n (HT40)	2452	Ant0	1	Reference Level	-9.5	Pass
802.11n (HT40)	2452	Ant0	2	Band Edge	-49.49	Pass
802.11n (HT40)	2452	Ant0	3	30MHz~2310MHz	-56.36	Pass
802.11n (HT40)	2452	Ant0	4	2500MHz~5000MHz	-45.74	Pass
802.11n (HT40)	2452	Ant0	5	5000MHz~25000MHz	-43.81	Pass

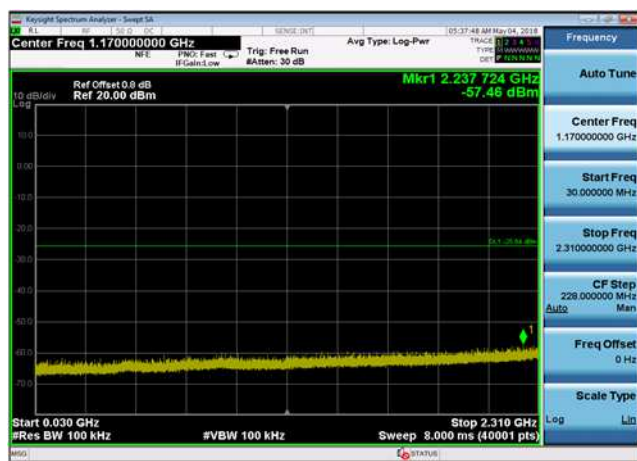
802.11b,2412MHz,Ant0,Plot 1,Reference Level



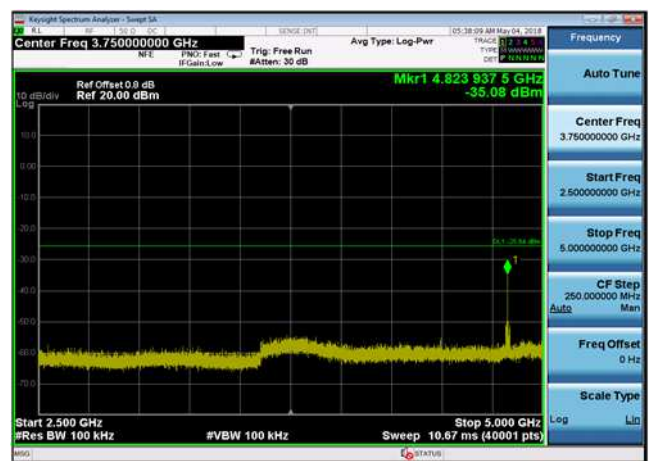
802.11b,2412MHz,Ant0,Plot 2,Band Edge



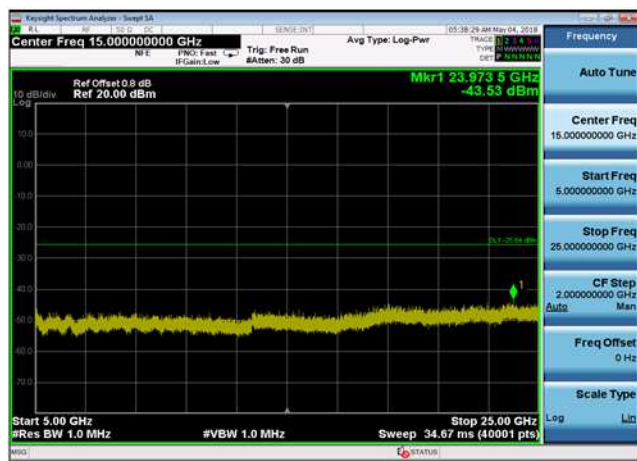
802.11b,2412MHz,Ant0,Plot 3,30MHz~231 OMHz



802.11b,2412MHz,Ant0,Plot 4,2500MHz~5 000MHz



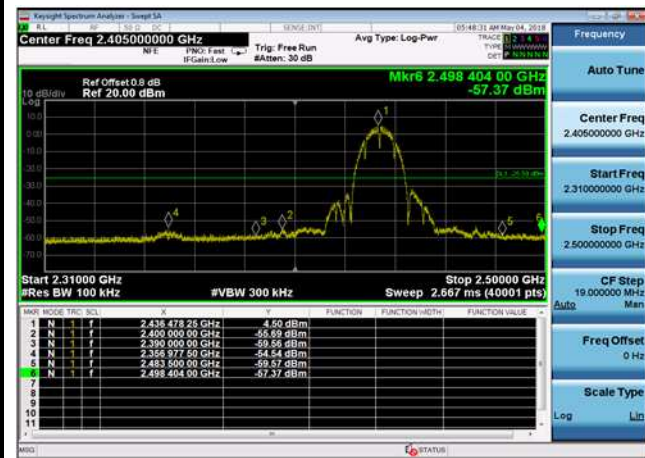
802.11b,2412MHz,Ant0,Plot 5,5000MHz~2 5000MHz



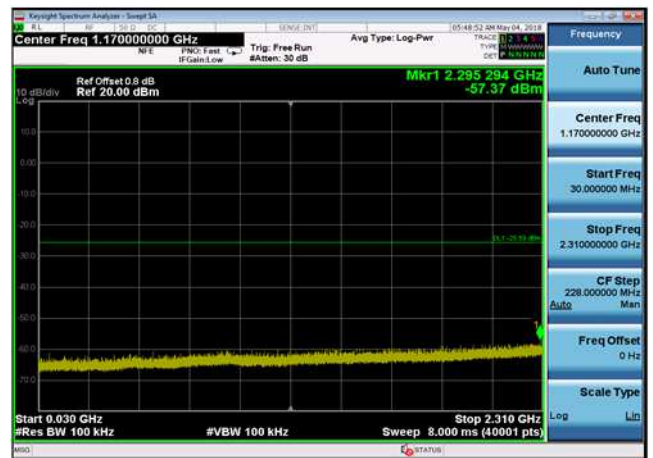
802.11b,2437MHz,Ant0,Plot 1,Reference Level



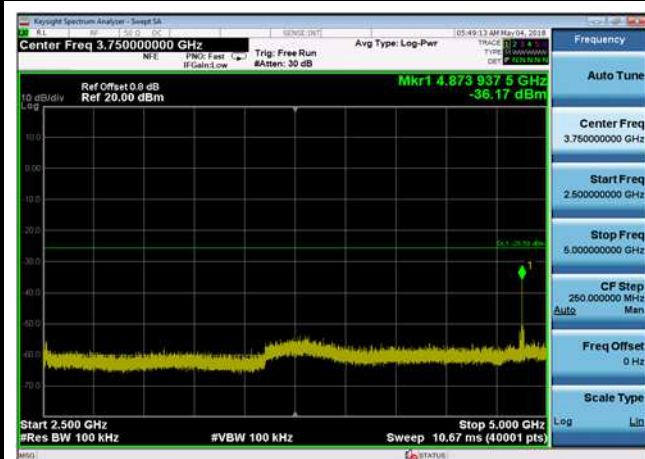
802.11b,2437MHz,Ant0,Plot 2,Band
Edge



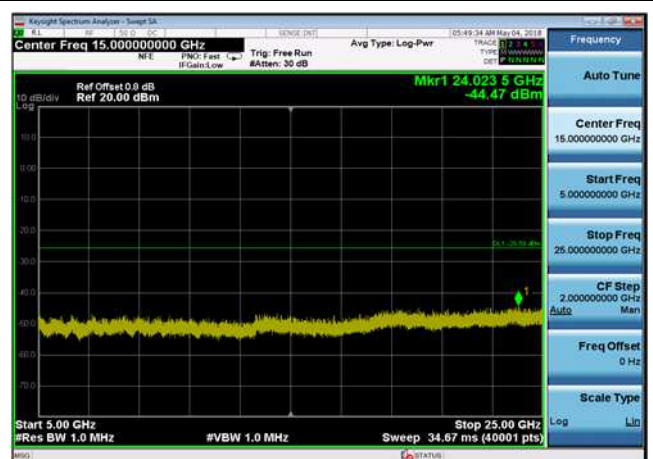
802.11b,2437MHz,Ant0,Plot 3,30MHz~231
0MHz



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



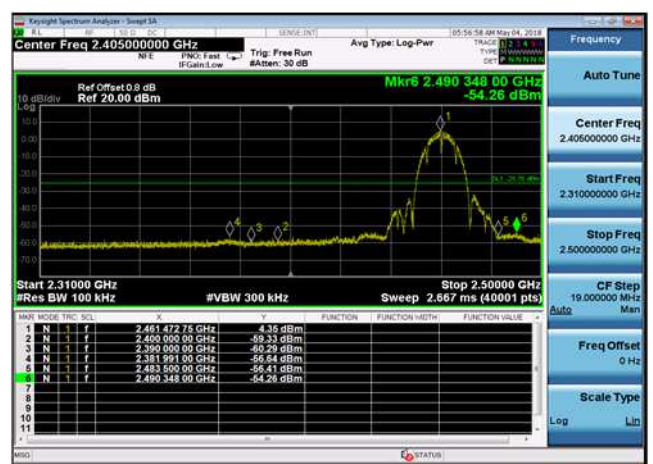
802.11b,2437MHz,Ant0,Plot 5,5000MHz~2
5000MHz



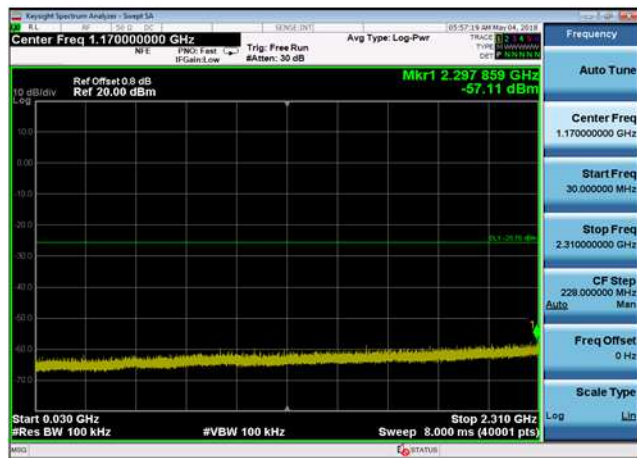
802.11b,2462MHz,Ant0,Plot 1,Reference
Level



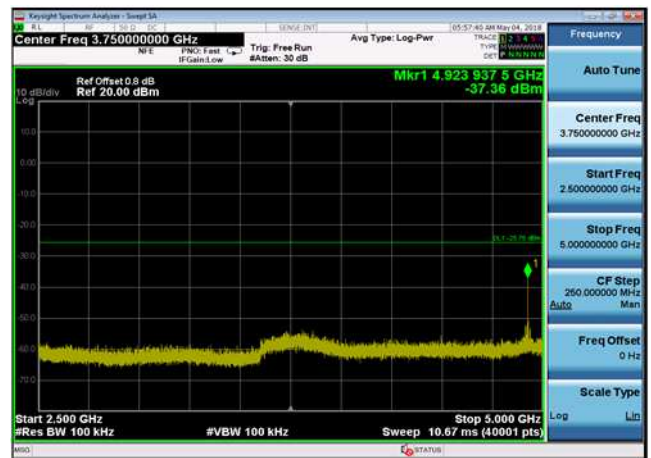
802.11b,2462MHz,Ant0,Plot 2,Band
Edge



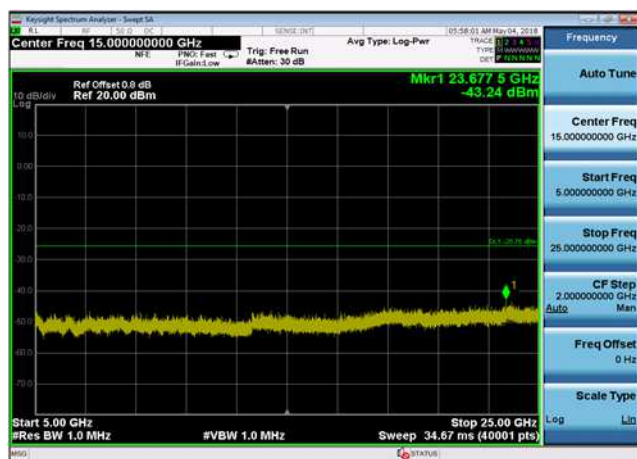
802.11b,2462MHz,Ant0,Plot 3,30MHz~231
0MHz



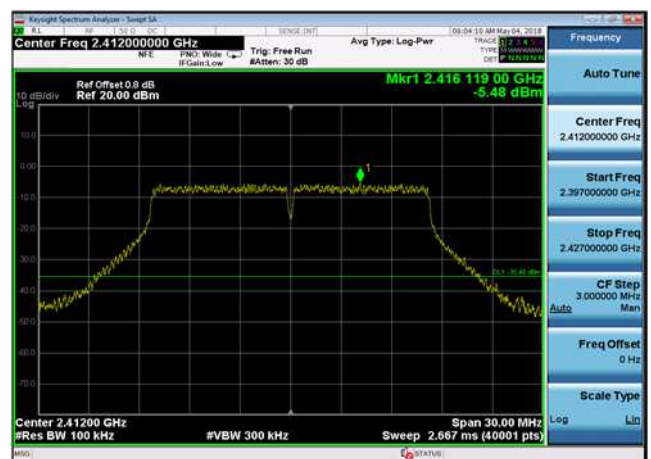
802.11b,2462MHz,Ant0,Plot 4,2500MHz~5
000MHz



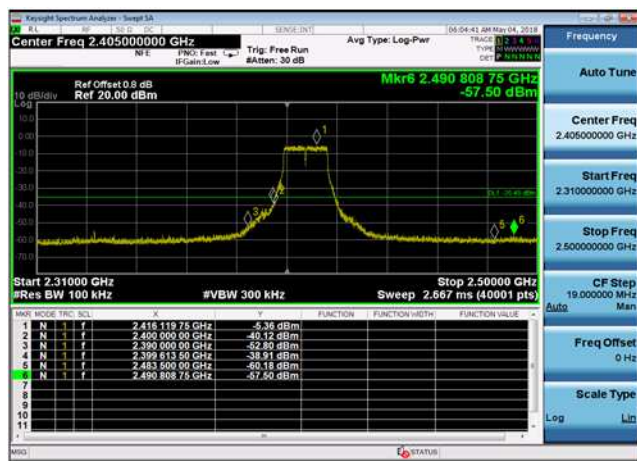
802.11b,2462MHz,Ant0,Plot 5,5000MHz~2
5000MHz



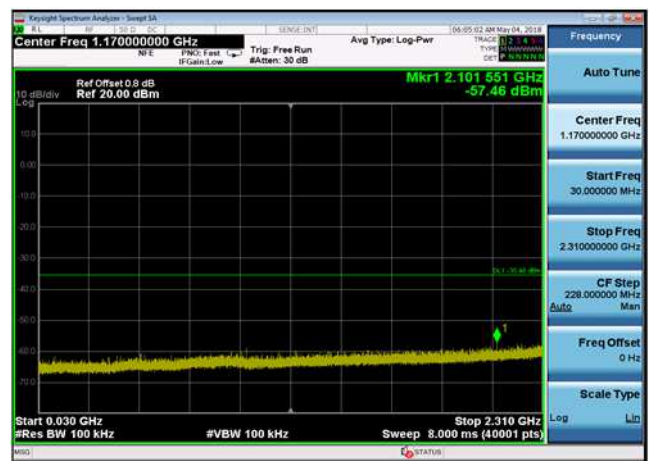
802.11g,2412MHz,Ant0,Plot 1,Reference
Level



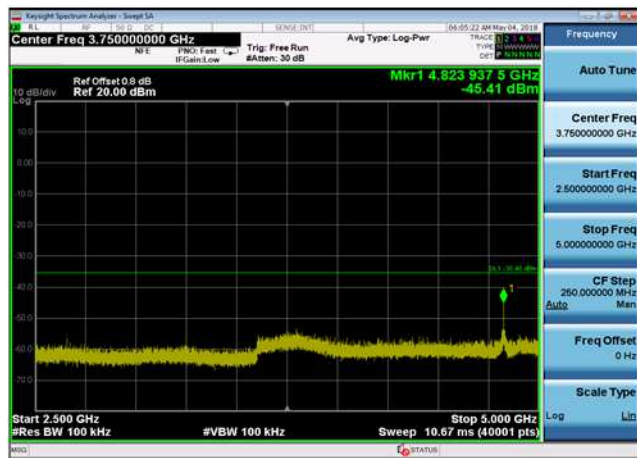
802.11g,2412MHz,Ant0,Plot 2,Band
Edge



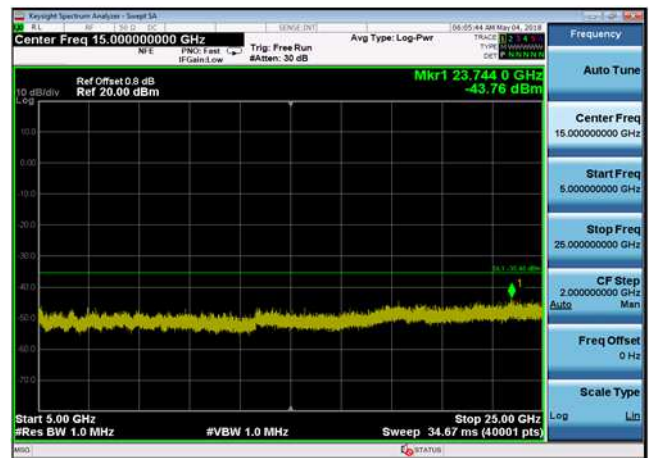
802.11g,2412MHz,Ant0,Plot 3,30MHz~231
0MHz



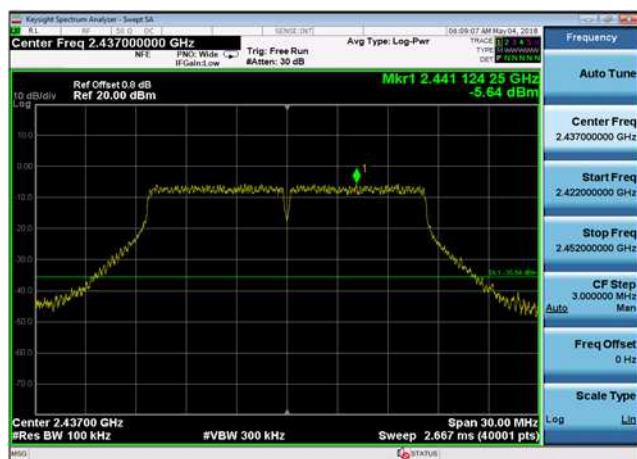
802.11g,2412MHz,Ant0,Plot 4,2500MHz~5000MHz



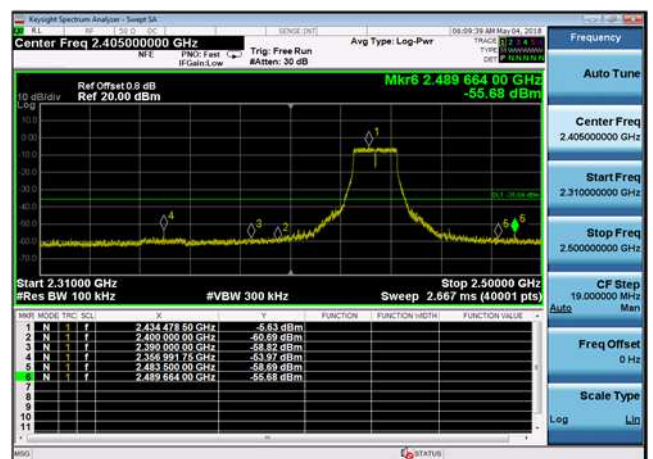
802.11g,2412MHz,Ant0,Plot 5,5000MHz~25000MHz



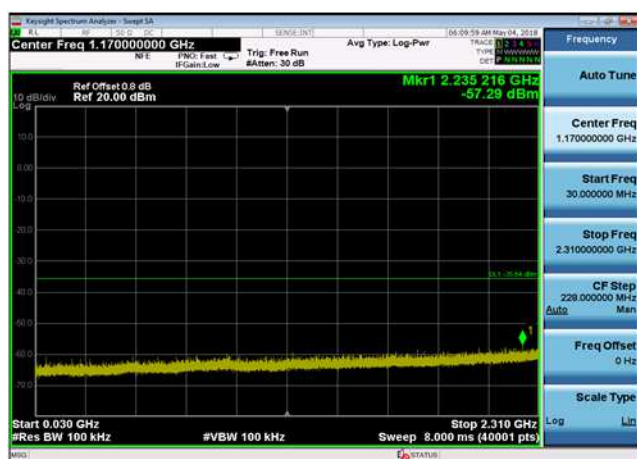
802.11g,2437MHz,Ant0,Plot 1,Reference Level



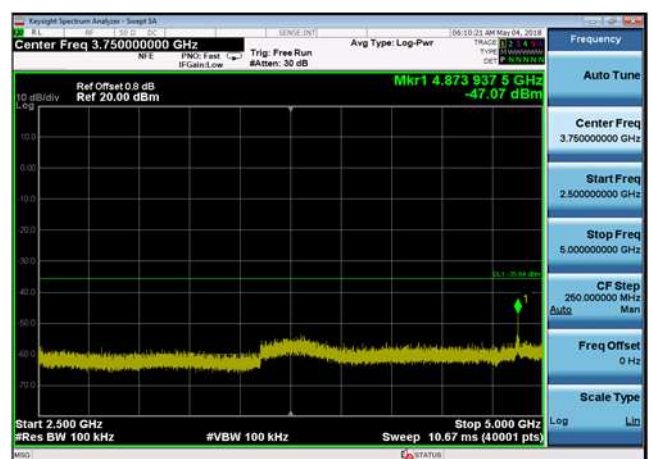
802.11g,2437MHz,Ant0,Plot 2,Band Edge



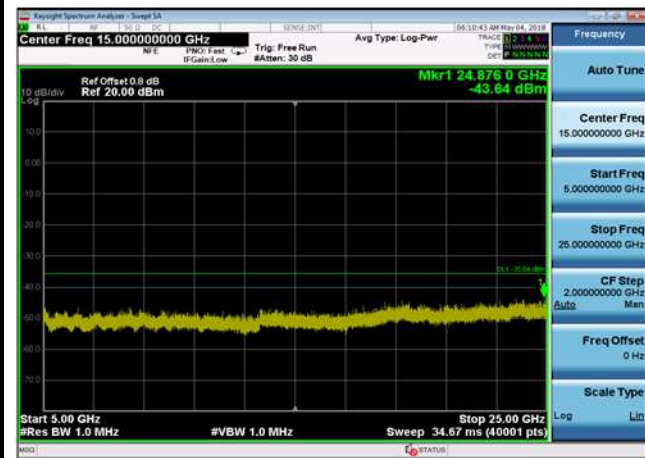
802.11g,2437MHz,Ant0,Plot 3,30MHz~2310MHz



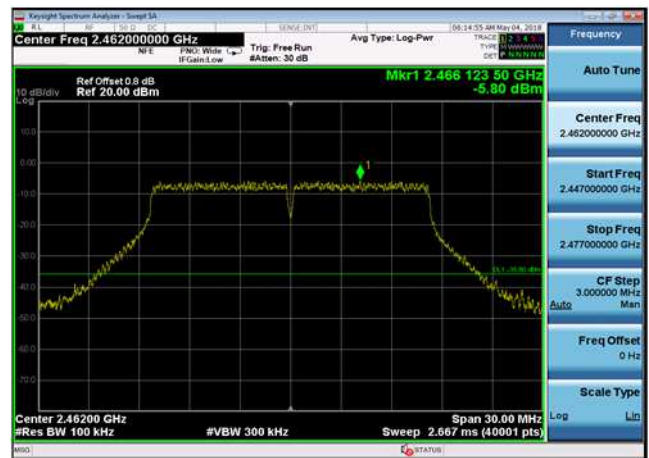
802.11g,2437MHz,Ant0,Plot 4,2500MHz~5000MHz



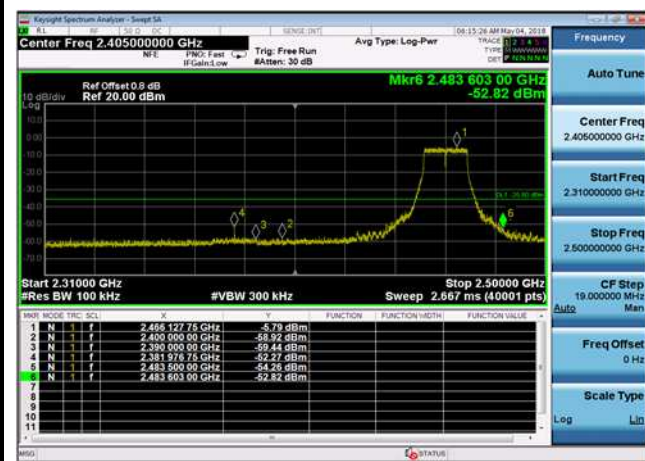
802.11g,2437MHz,Ant0,Plot 5,5000MHz~2
5000MHz



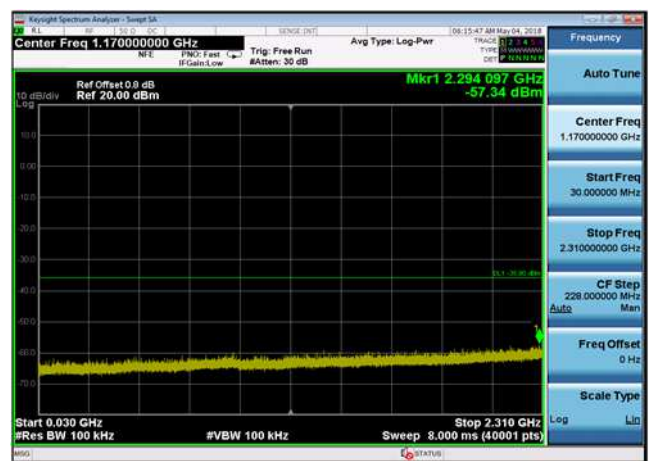
802.11g,2462MHz,Ant0,Plot 1,Reference
Level



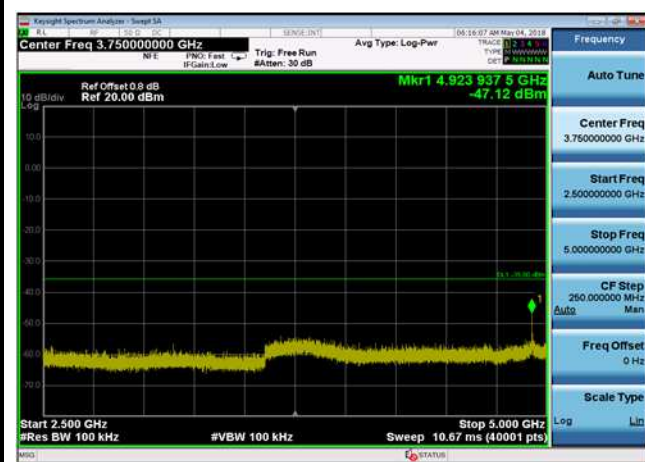
802.11g,2462MHz,Ant0,Plot 2,Band
Edge



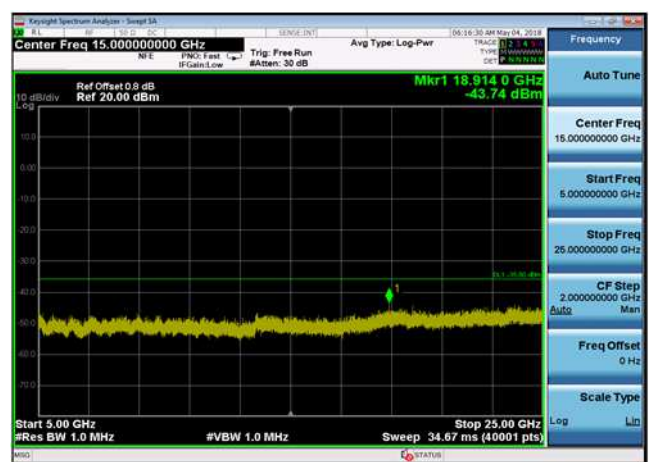
802.11g,2462MHz,Ant0,Plot 3,30MHz~231
0MHz



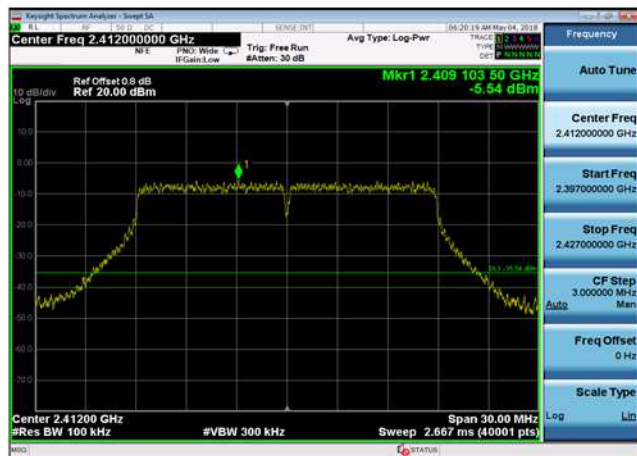
802.11g,2462MHz,Ant0,Plot 4,2500MHz~5
000MHz



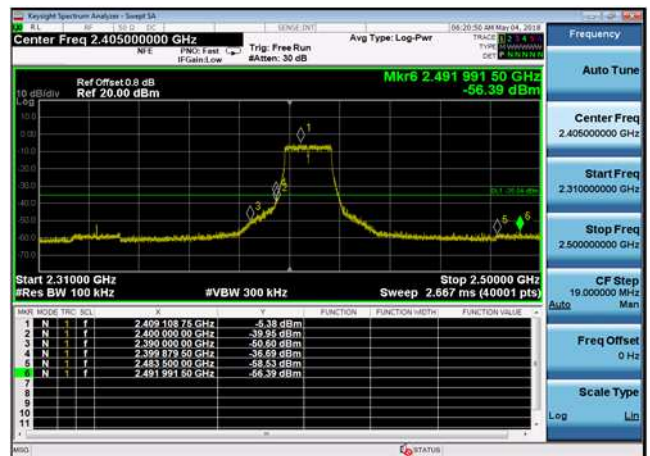
802.11g,2462MHz,Ant0,Plot 5,5000MHz~2
5000MHz



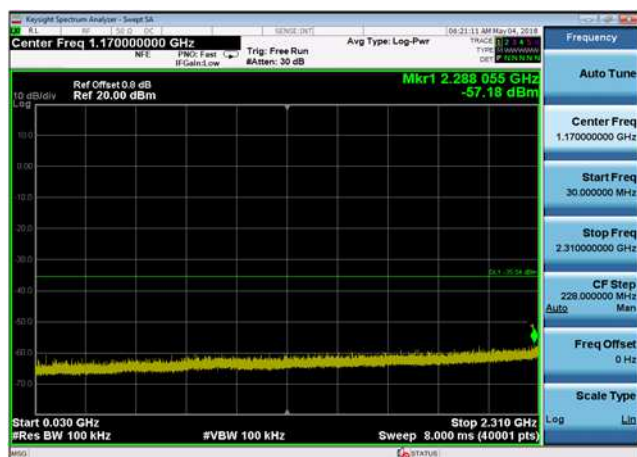
802.11n(HT20),2412MHz,Ant0,Plot
1,Reference Level



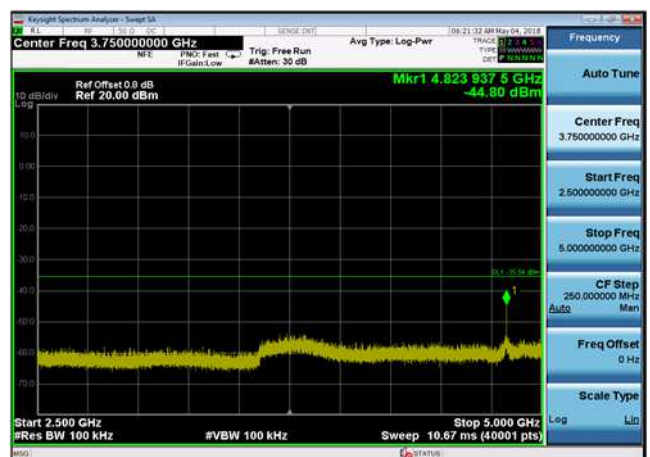
802.11n(HT20),2412MHz,Ant0,Plot
2,Band Edge



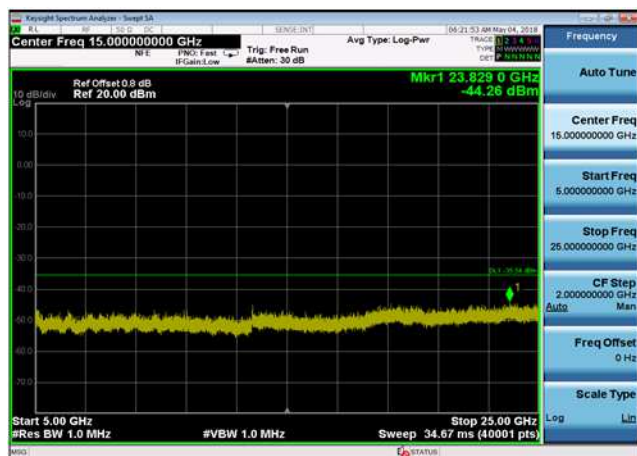
802.11n(HT20),2412MHz,Ant0,Plot
3,30MHz~2310MHz



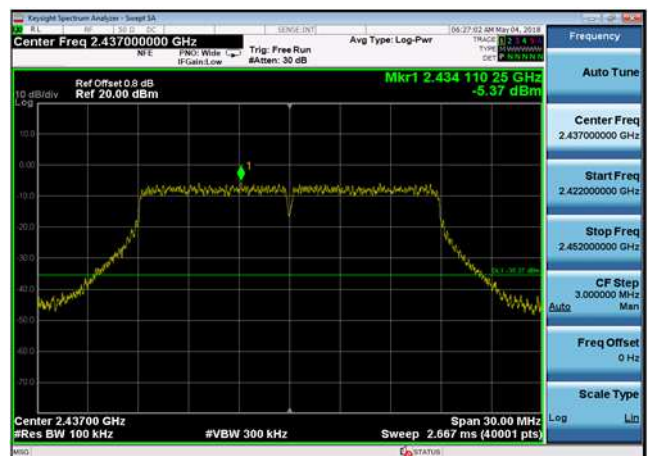
802.11n(HT20),2412MHz,Ant0,Plot
4,2500MHz~5000MHz



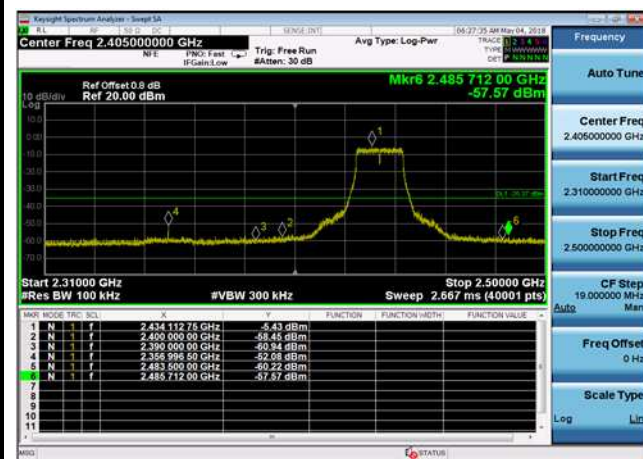
802.11n(HT20),2412MHz,Ant0,Plot
5,5500MHz~25000MHz



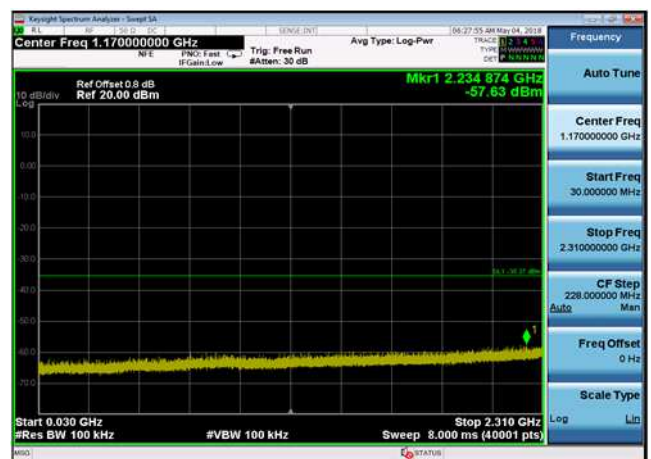
802.11n(HT20),2437MHz,Ant0,Plot
1,Reference Level



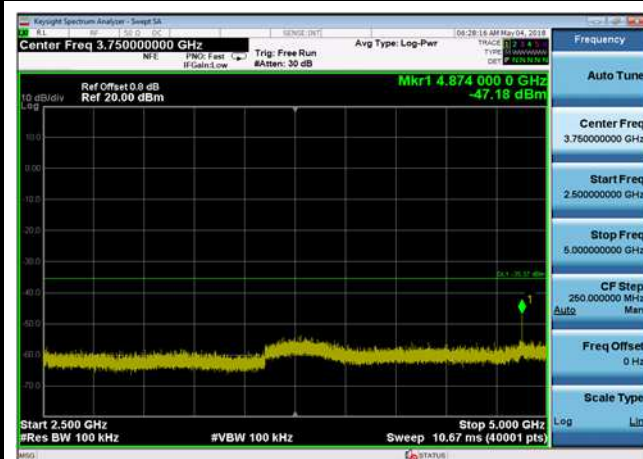
802.11n(HT20),2437MHz,Ant0,Plot
2,Band Edge



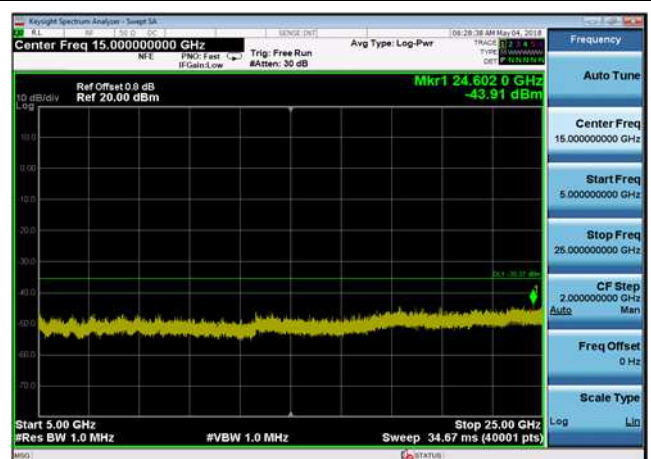
802.11n(HT20),2437MHz,Ant0,Plot
3,30MHz~2310MHz



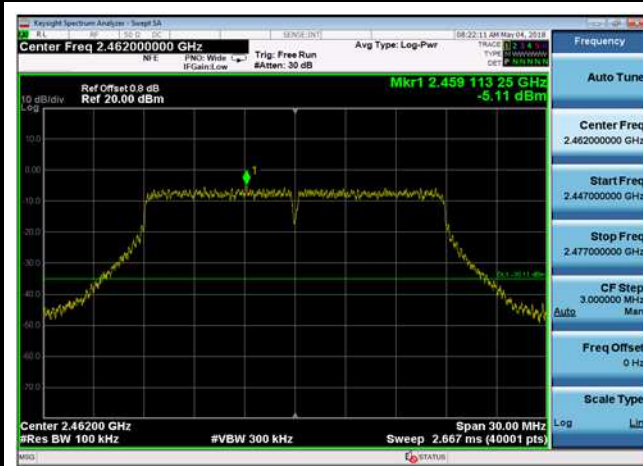
802.11n(HT20),2437MHz,Ant0,Plot
4,2500MHz~5000MHz



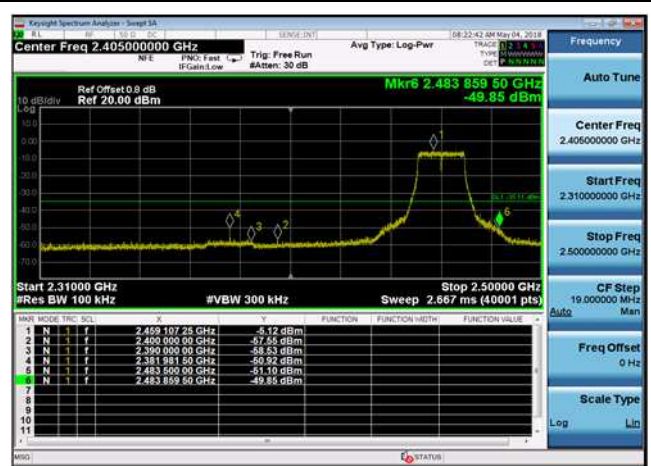
802.11n(HT20),2437MHz,Ant0,Plot
5,5000MHz~25000MHz



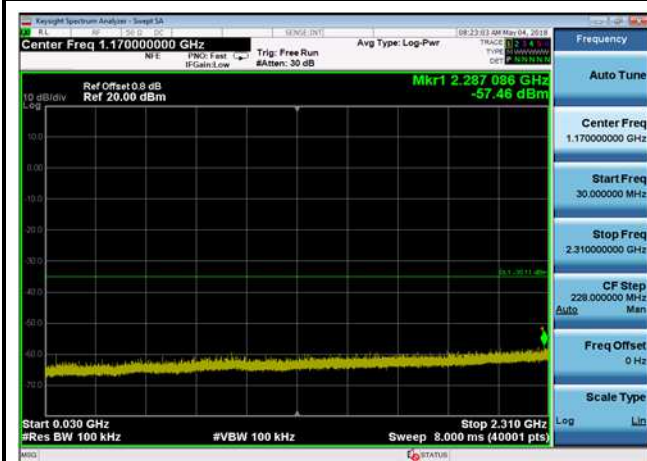
802.11n(HT20),2462MHz,Ant0,Plot
1,Reference Level



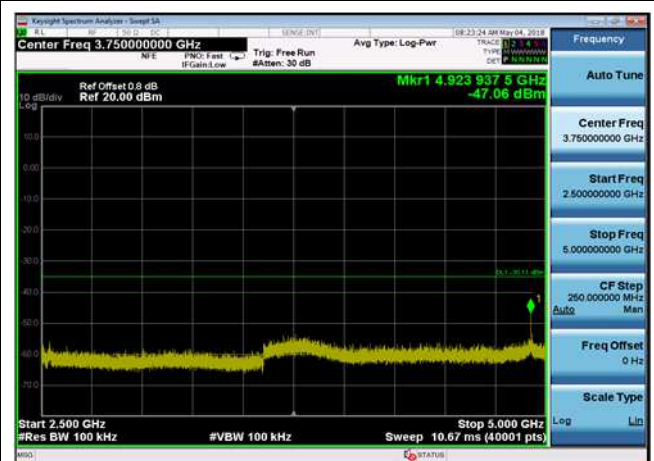
802.11n(HT20),2462MHz,Ant0,Plot
2,Band Edge



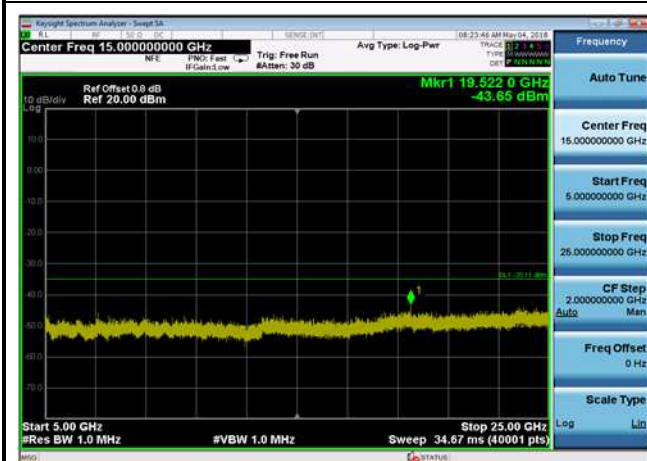
802.11n(HT20),2462MHz,Ant0,Plot
3,30MHz~2310MHz



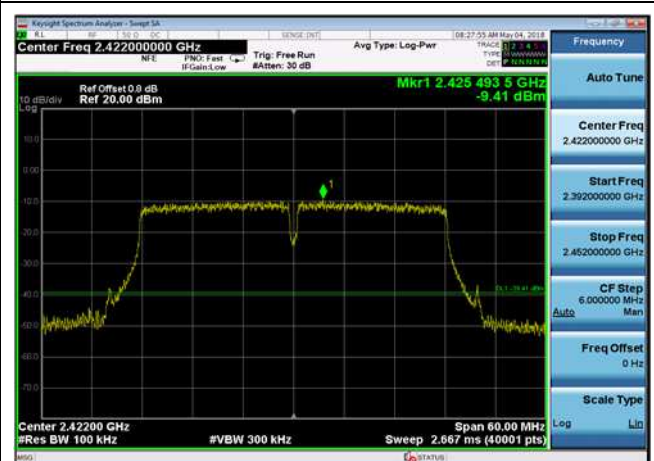
802.11n(HT20),2462MHz,Ant0,Plot
4,2500MHz~5000MHz



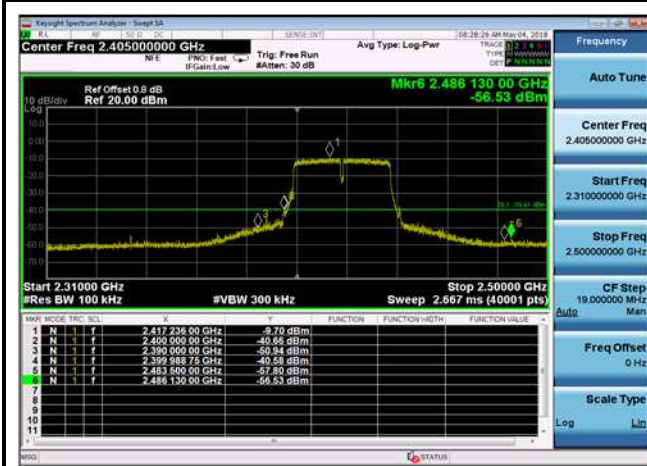
802.11n(HT20),2462MHz,Ant0,Plot
5,5500MHz~25000MHz



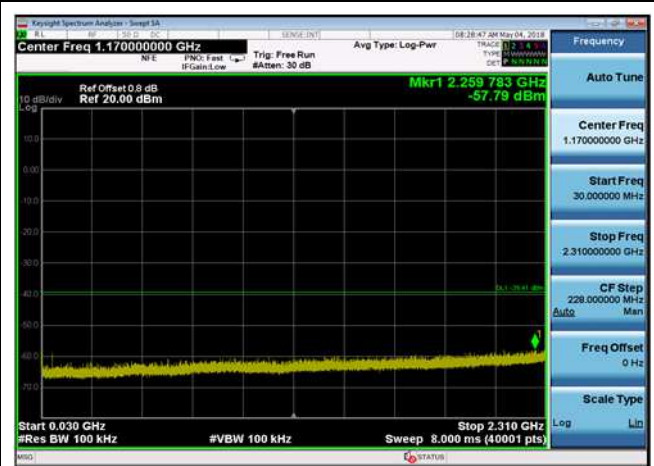
802.11n(HT40),2422MHz,Ant0,Plot
1,Reference Level



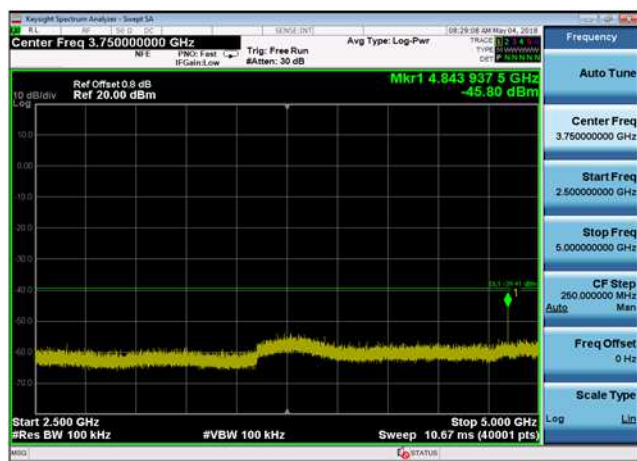
802.11n(HT40),2422MHz,Ant0,Plot
2,Band Edge



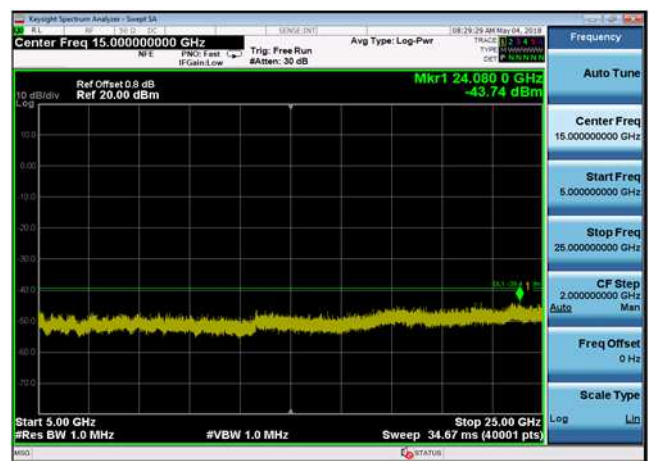
802.11n(HT40),2422MHz,Ant0,Plot
3,30MHz~2310MHz



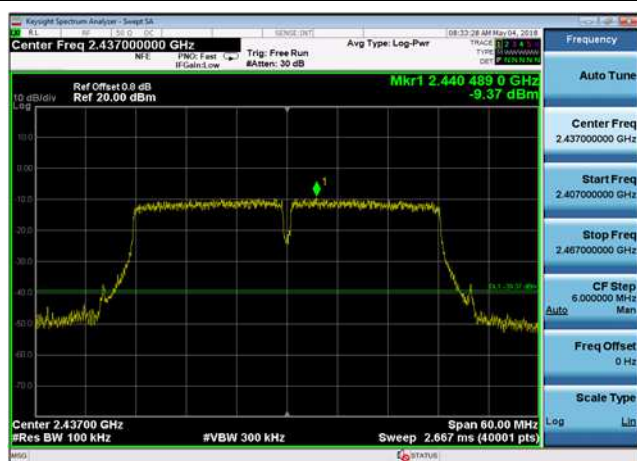
802.11n(HT40),2422MHz,Ant0,Plot
4,2500MHz~5000MHz



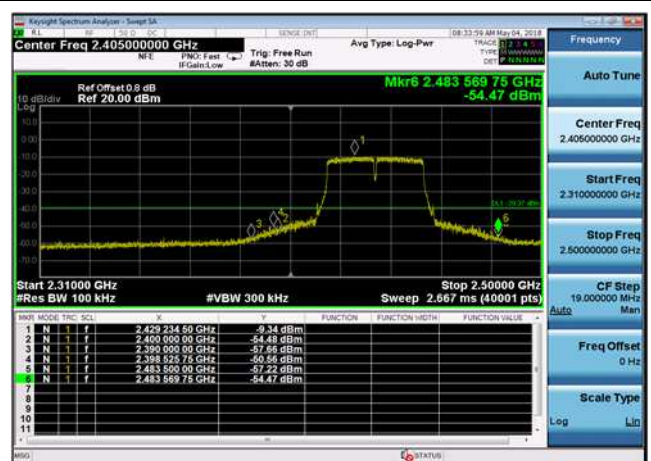
802.11n(HT40),2422MHz,Ant0,Plot
5,5000MHz~25000MHz



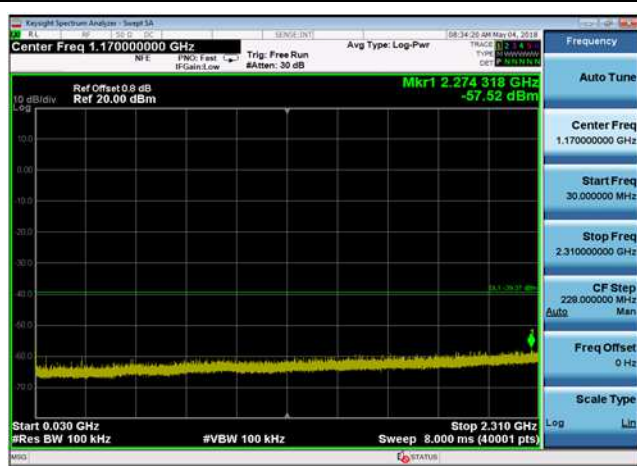
802.11n(HT40),2437MHz,Ant0,Plot
1,Reference Level



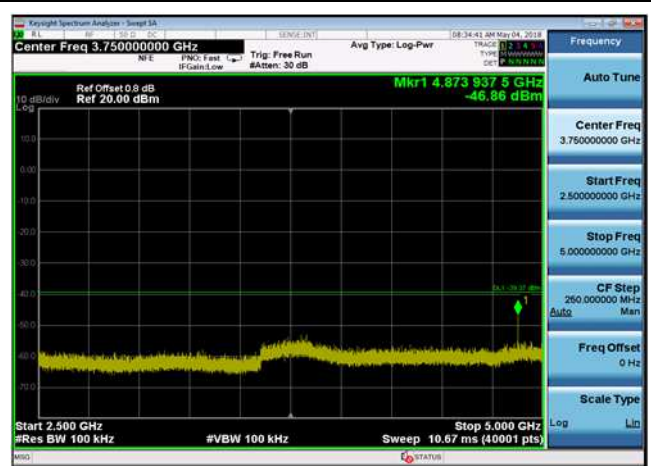
802.11n(HT40),2437MHz,Ant0,Plot
2,Band Edge



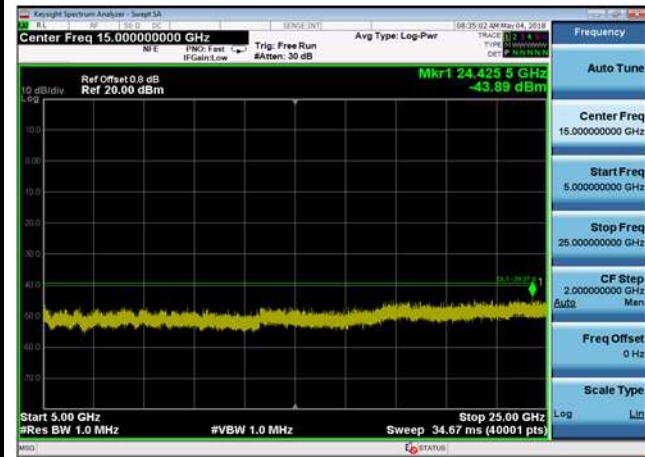
802.11n(HT40),2437MHz,Ant0,Plot
3,30MHz~2310MHz



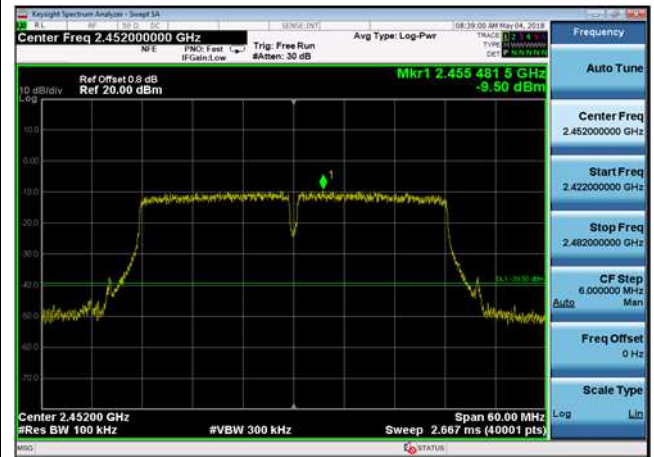
802.11n(HT40),2437MHz,Ant0,Plot
4,2500MHz~5000MHz



802.11n(HT40),2437MHz,Ant0,Plot
5,5000MHz~25000MHz



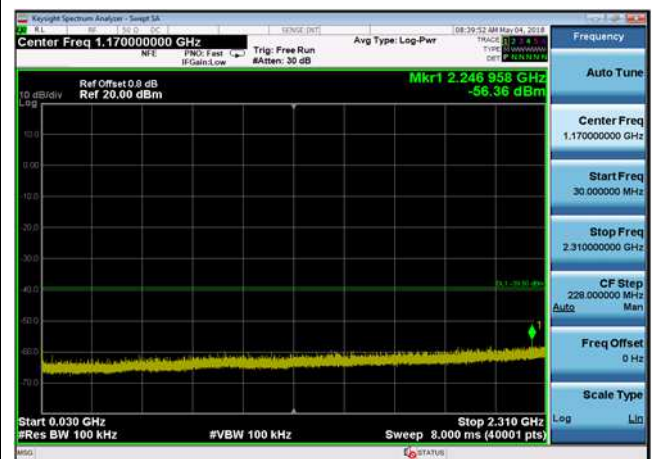
802.11n(HT40),2452MHz,Ant0,Plot
1,Reference Level



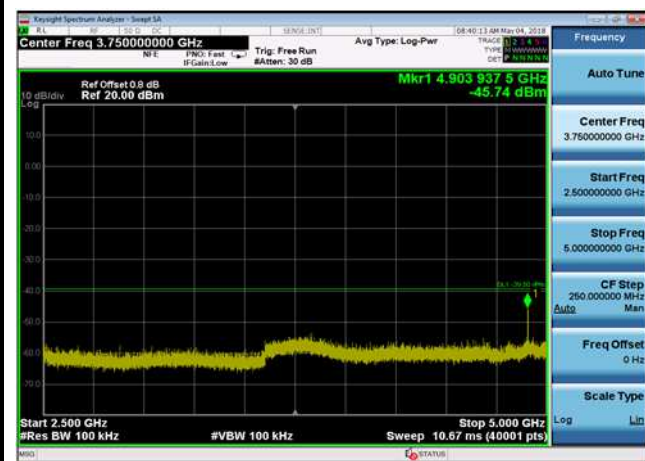
802.11n(HT40),2452MHz,Ant0,Plot
2,Band Edge



802.11n(HT40),2452MHz,Ant0,Plot
3,30MHz~2310MHz



802.11n(HT40),2452MHz,Ant0,Plot
4,2500MHz~5000MHz



802.11n(HT40),2452MHz,Ant0,Plot
5,5,5000MHz~25000MHz

