

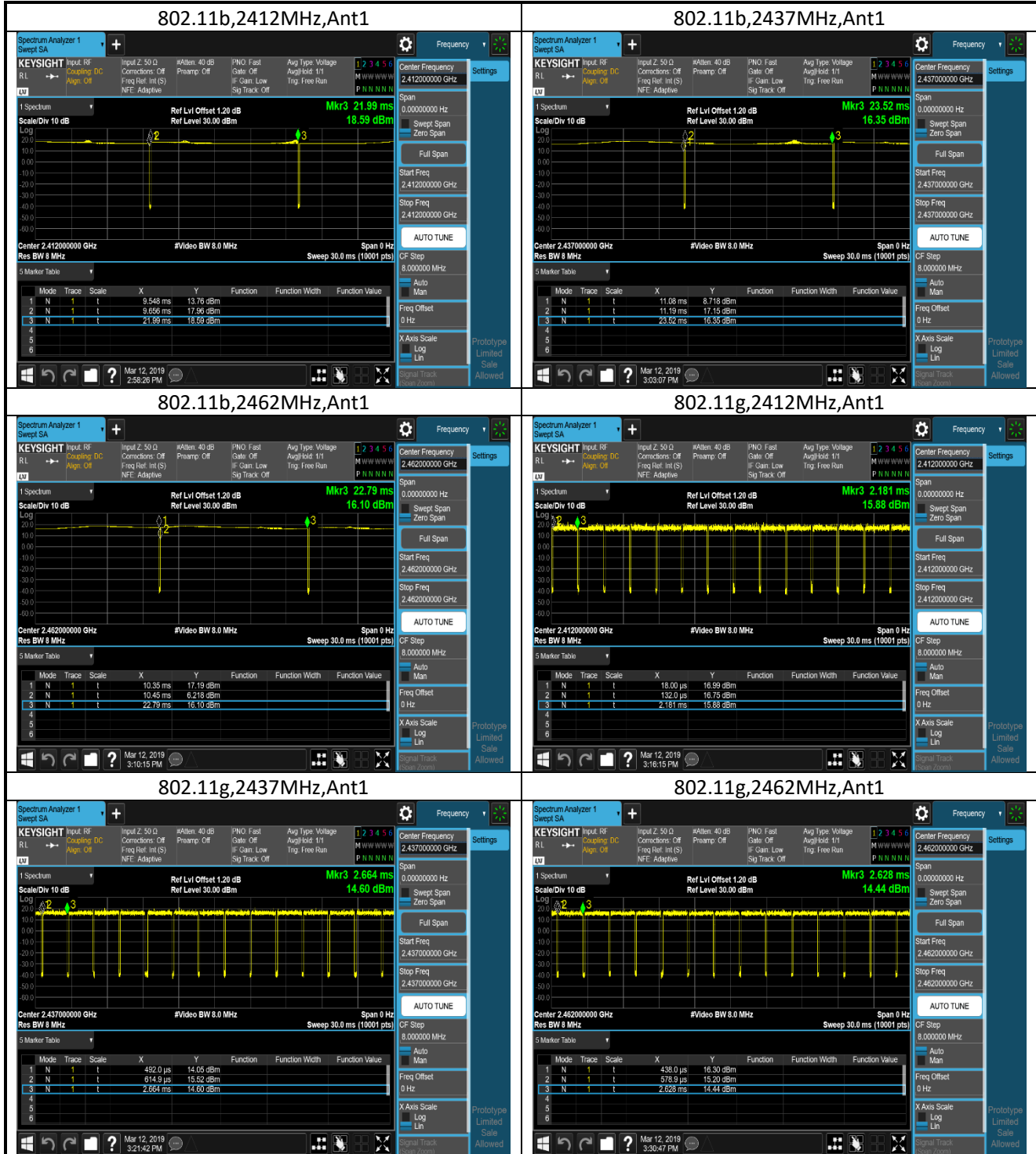
Appendix A: Test results

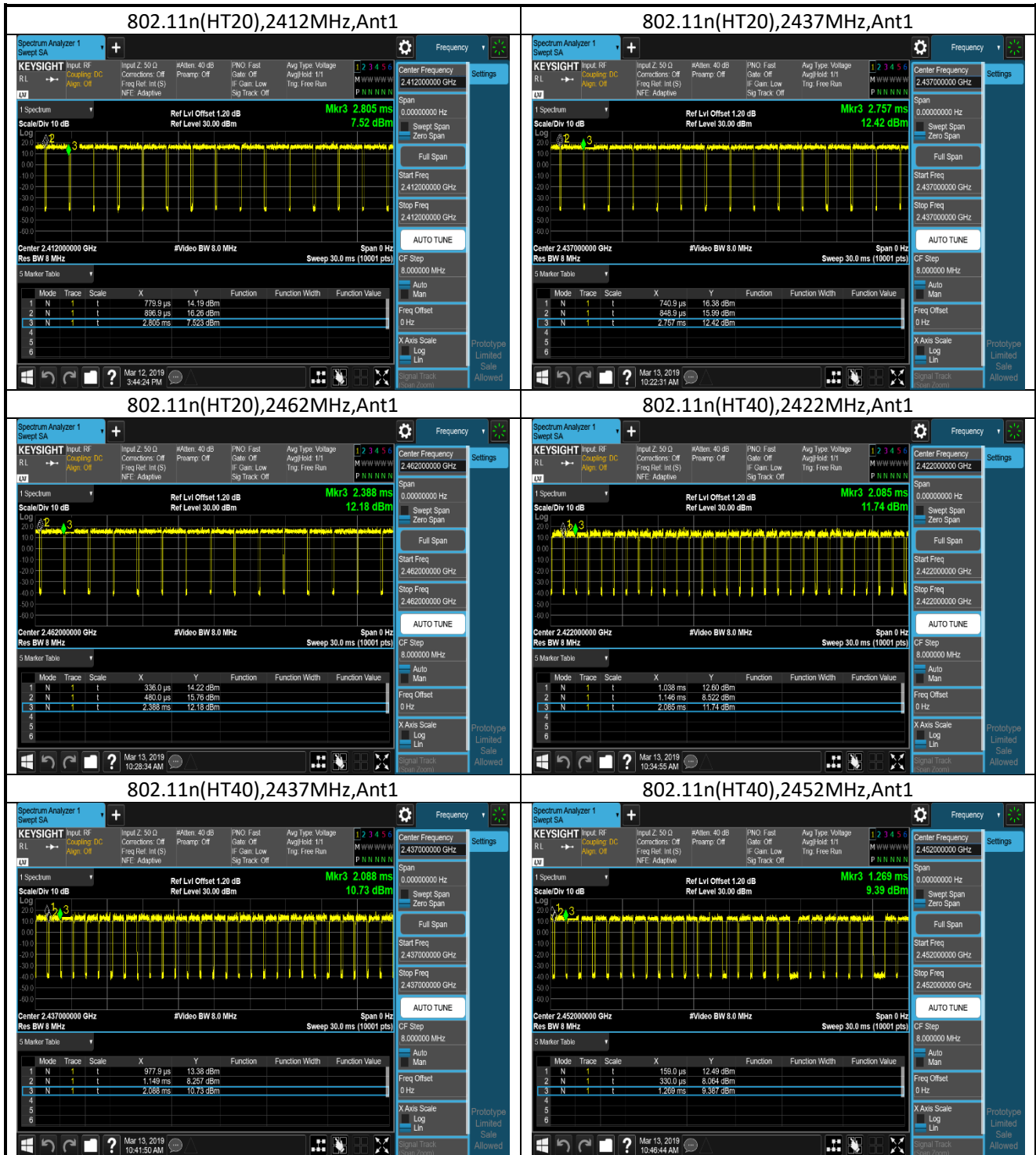
1. Duty Cycle

1.1 Test Data

WLAN Duty Cycle				
Mode	Test Frequency (MHz)	Ant	Duty Cycle (%)	Duty Cycle Factor (dB)
802.11b	2412	Ant1	99.13	0.00
802.11b	2437	Ant1	99.13	0.00
802.11b	2462	Ant1	99.13	0.00
802.11g	2412	Ant1	94.73	0.24
802.11g	2437	Ant1	94.34	0.25
802.11g	2462	Ant1	93.56	0.29
802.11n (HT20)	2412	Ant1	94.22	0.26
802.11n (HT20)	2437	Ant1	94.64	0.24
802.11n (HT20)	2462	Ant1	92.98	0.32
802.11n (HT40)	2422	Ant1	89.68	0.47
802.11n (HT40)	2437	Ant1	84.59	0.73
802.11n (HT40)	2452	Ant1	84.59	0.73

1.2 Test Plots





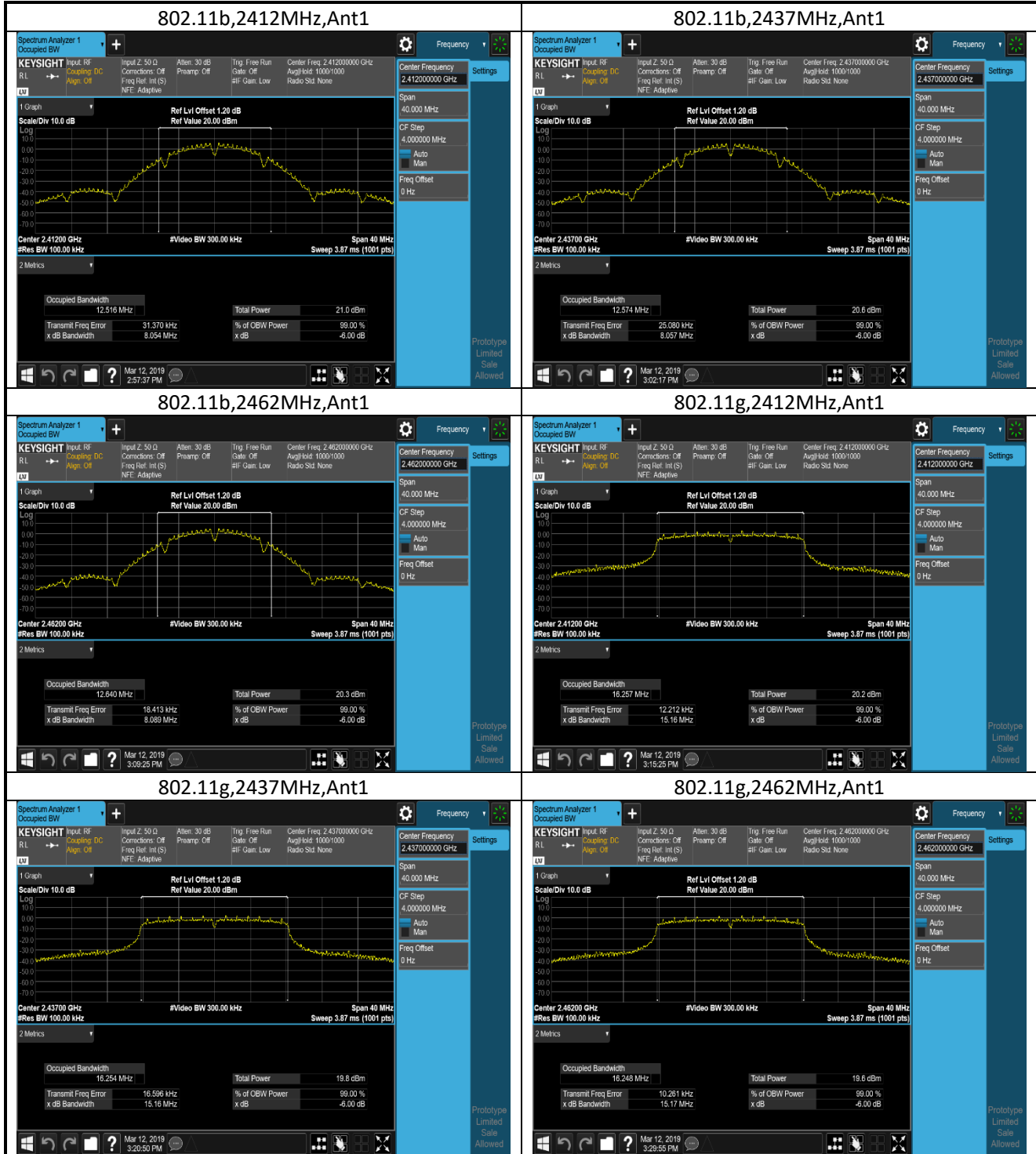
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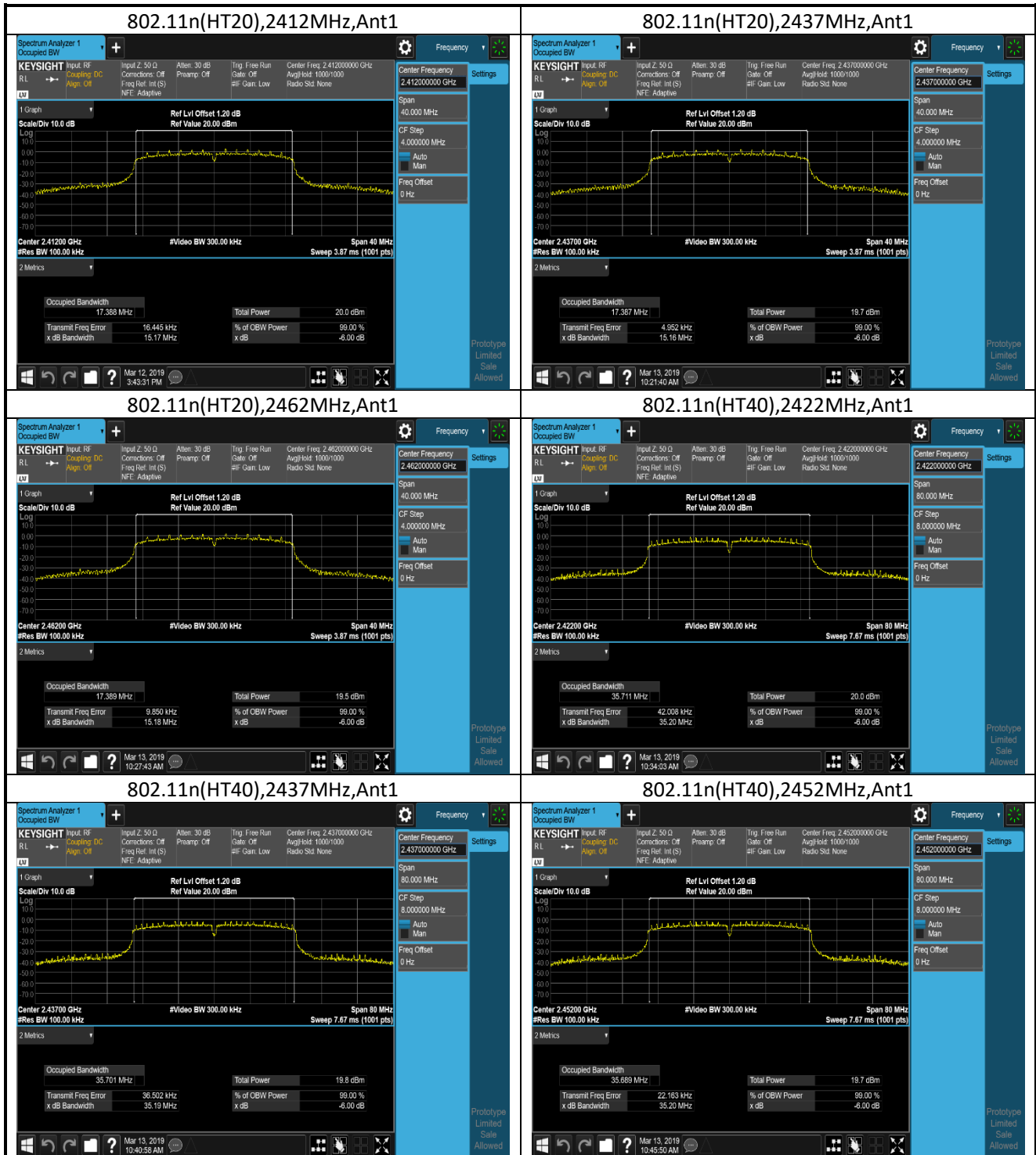
2. Minimum 6dB bandwidth

2.1 Test Data

WLAN Occupied 6dB Bandwidth				
Mode	Test Frequency (MHz)	Ant	Occupied Bandwidth (MHz)	Result
802.11b	2412	Ant1	8.05	Pass
802.11b	2437	Ant1	8.06	Pass
802.11b	2462	Ant1	8.09	Pass
802.11g	2412	Ant1	15.16	Pass
802.11g	2437	Ant1	15.16	Pass
802.11g	2462	Ant1	15.17	Pass
802.11n (HT20)	2412	Ant1	15.17	Pass
802.11n (HT20)	2437	Ant1	15.16	Pass
802.11n (HT20)	2462	Ant1	15.18	Pass
802.11n (HT40)	2422	Ant1	35.20	Pass
802.11n (HT40)	2437	Ant1	35.19	Pass
802.11n (HT40)	2452	Ant1	35.20	Pass

2.2 Test Plots



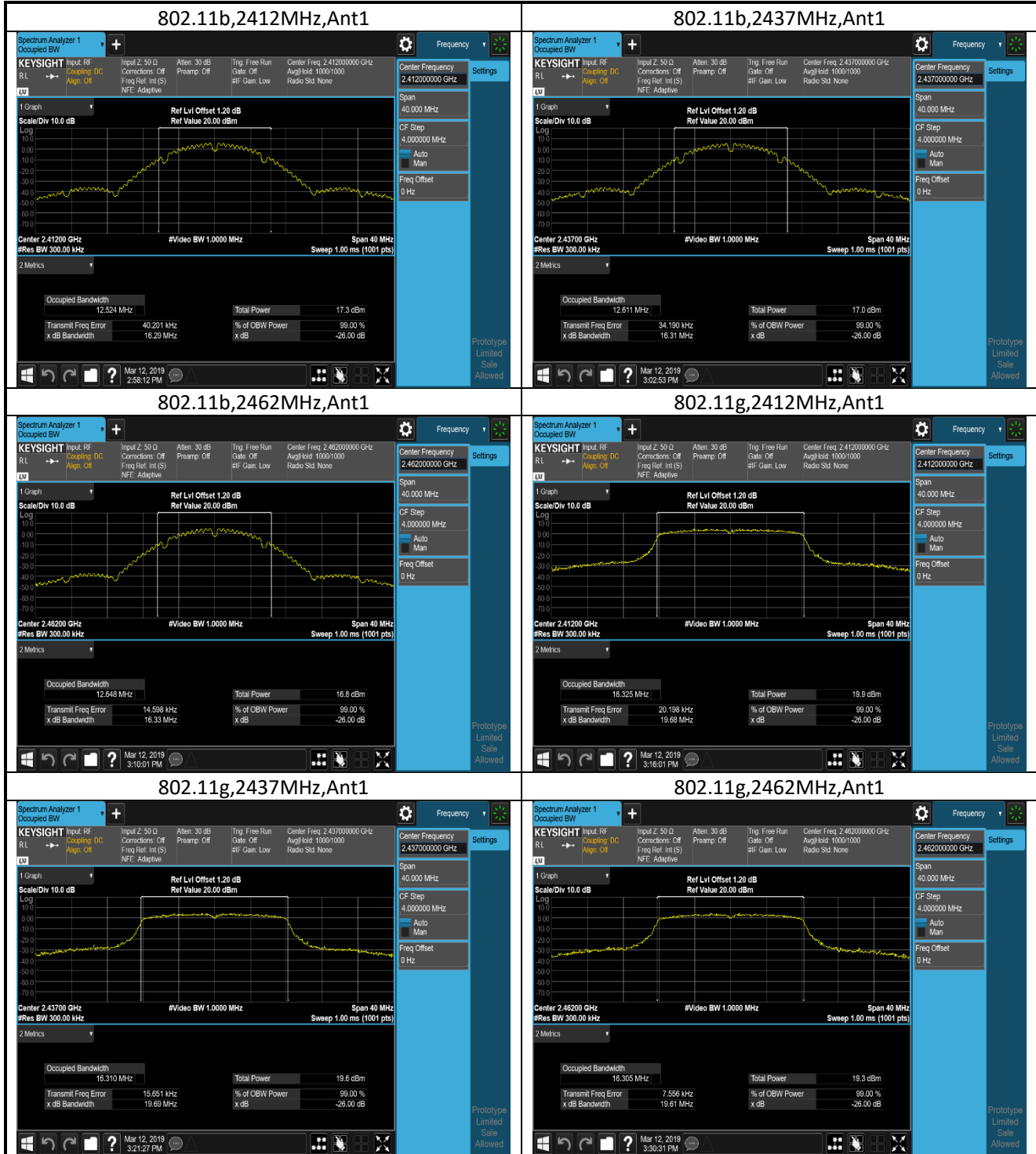


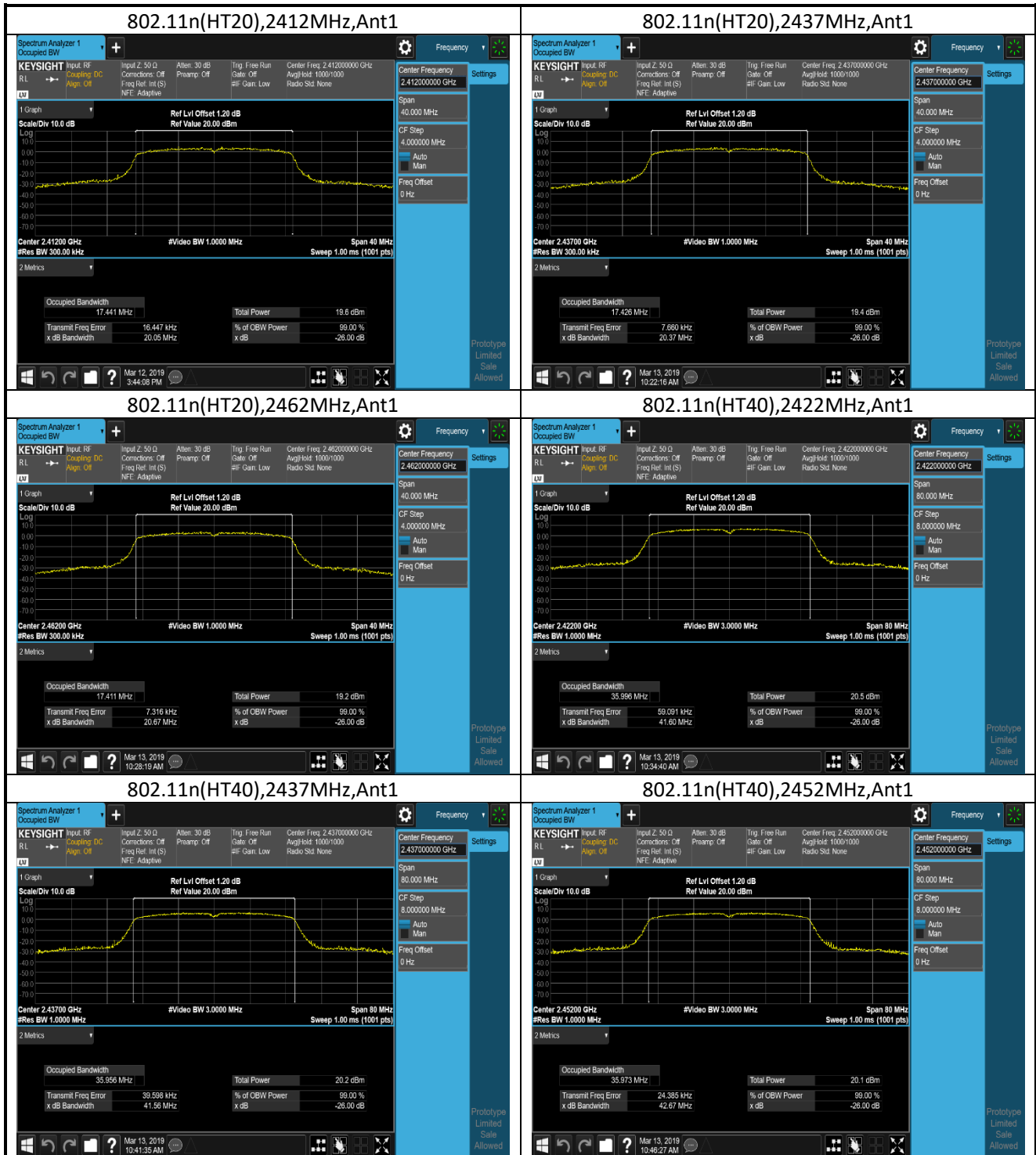
3. Occupied Bandwidth

3.1 Test Data

WLAN 99% Occupied Bandwidth				
Mode	Test Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Result
802.11b	2412	Ant1	12.524	Pass
802.11b	2437	Ant1	12.611	Pass
802.11b	2462	Ant1	12.648	Pass
802.11g	2412	Ant1	16.325	Pass
802.11g	2437	Ant1	16.310	Pass
802.11g	2462	Ant1	16.305	Pass
802.11n (HT20)	2412	Ant1	17.441	Pass
802.11n (HT20)	2437	Ant1	17.426	Pass
802.11n (HT20)	2462	Ant1	17.411	Pass
802.11n (HT40)	2422	Ant1	35.996	Pass
802.11n (HT40)	2437	Ant1	35.956	Pass
802.11n (HT40)	2452	Ant1	35.973	Pass

3.2 Test Plots





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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	Ant1	0.00	13.34	30	16.64	Pass
802.11b	2437	Ant1	0.00	12.97	30	16.27	Pass
802.11b	2462	Ant1	0.00	12.74	30	16.04	Pass
802.11g	2412	Ant1	0.24	12.69	30	15.99	Pass
802.11g	2437	Ant1	0.25	12.34	30	15.64	Pass
802.11g	2462	Ant1	0.29	12.11	30	15.41	Pass
802.11n (HT20)	2412	Ant1	0.26	12.28	30	15.58	Pass
802.11n (HT20)	2437	Ant1	0.24	12.08	30	15.38	Pass
802.11n (HT20)	2462	Ant1	0.32	11.99	30	15.29	Pass
802.11n (HT40)	2422	Ant1	0.47	12.13	30	15.43	Pass
802.11n (HT40)	2437	Ant1	0.73	12.23	30	15.53	Pass
802.11n (HT40)	2452	Ant1	0.73	12.07	30	15.37	Pass

4.2 Test Plots



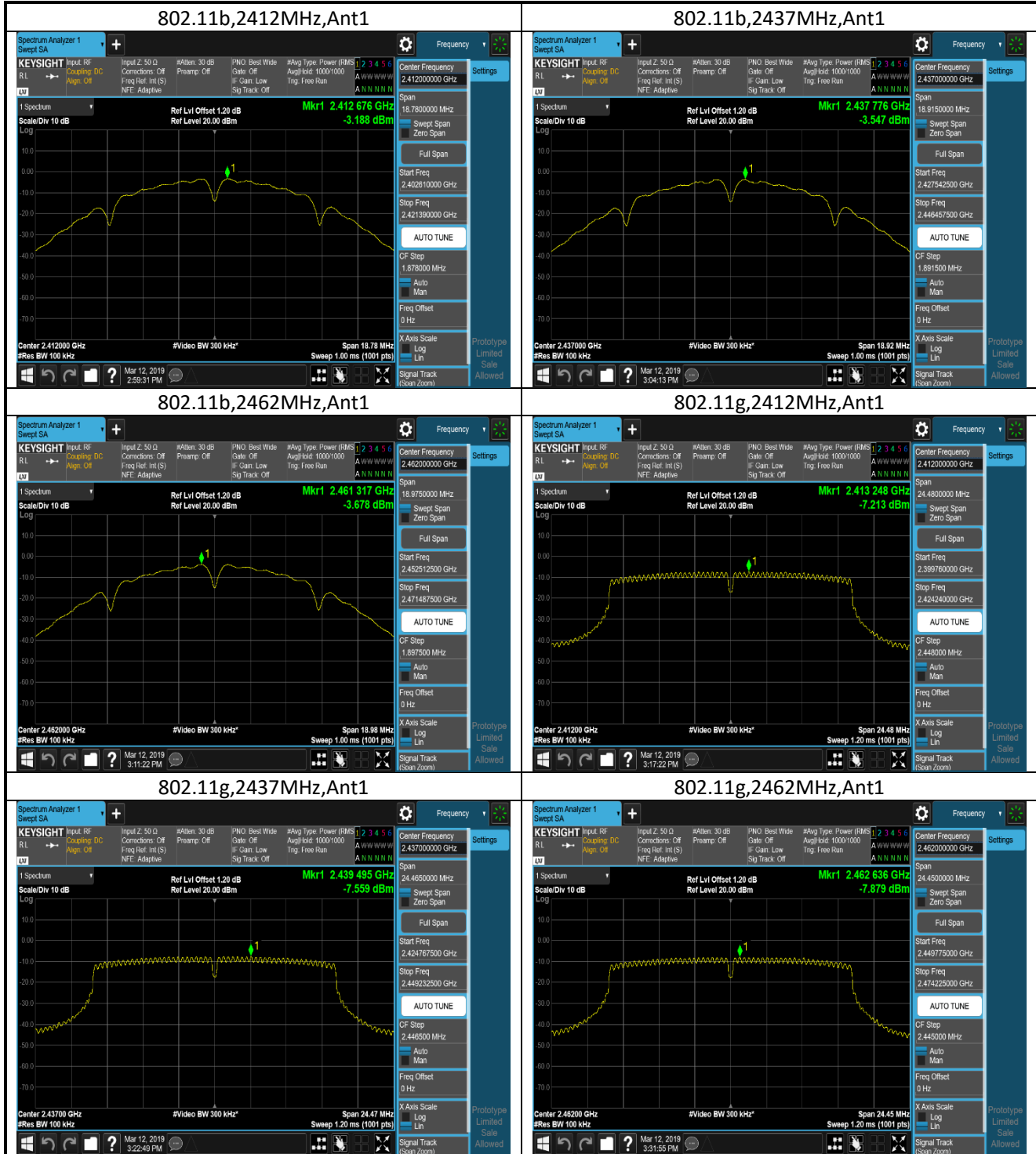


5. Power spectrum density

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	Ant1	0.00	-3.188	100	8	Pass
802.11b	2437	Ant1	0.00	-3.547	100	8	Pass
802.11b	2462	Ant1	0.00	-3.678	100	8	Pass
802.11g	2412	Ant1	0.24	-6.973	100	8	Pass
802.11g	2437	Ant1	0.25	-7.309	100	8	Pass
802.11g	2462	Ant1	0.29	-7.589	100	8	Pass
802.11n (HT20)	2412	Ant1	0.26	-7.530	100	8	Pass
802.11n (HT20)	2437	Ant1	0.24	-7.750	100	8	Pass
802.11n (HT20)	2462	Ant1	0.32	-7.942	100	8	Pass
802.11n (HT40)	2422	Ant1	0.47	-10.850	100	8	Pass
802.11n (HT40)	2437	Ant1	0.73	-10.710	100	8	Pass
802.11n (HT40)	2452	Ant1	0.73	-10.848	100	8	Pass

5.2 Test Plots





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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	Ant1	1	Reference Level	5.42	Pass
802.11b	2412	Ant1	2	Band Edge	-36.27	Pass
802.11b	2412	Ant1	3	30MHz~2310MHz	-58.13	Pass
802.11b	2412	Ant1	4	2500MHz~5000MHz	-52.45	Pass
802.11b	2412	Ant1	5	5000MHz~25000MHz	-42.19	Pass
802.11b	2437	Ant1	1	Reference Level	5.30	Pass
802.11b	2437	Ant1	2	Band Edge	-54.05	Pass
802.11b	2437	Ant1	3	30MHz~2310MHz	-49.64	Pass
802.11b	2437	Ant1	4	2500MHz~5000MHz	-52.07	Pass
802.11b	2437	Ant1	5	5000MHz~25000MHz	-42.10	Pass
802.11b	2462	Ant1	1	Reference Level	4.96	Pass
802.11b	2462	Ant1	2	Band Edge	-52.21	Pass
802.11b	2462	Ant1	3	30MHz~2310MHz	-57.83	Pass
802.11b	2462	Ant1	4	2500MHz~5000MHz	-52.18	Pass
802.11b	2462	Ant1	5	5000MHz~25000MHz	-41.69	Pass
802.11g	2412	Ant1	1	Reference Level	2.10	Pass
802.11g	2412	Ant1	2	Band Edge	-29.77	Pass
802.11g	2412	Ant1	3	30MHz~2310MHz	-58.12	Pass
802.11g	2412	Ant1	4	2500MHz~5000MHz	-55.02	Pass
802.11g	2412	Ant1	5	5000MHz~25000MHz	-41.24	Pass
802.11g	2437	Ant1	1	Reference Level	1.99	Pass
802.11g	2437	Ant1	2	Band Edge	-54.11	Pass
802.11g	2437	Ant1	3	30MHz~2310MHz	-53.45	Pass
802.11g	2437	Ant1	4	2500MHz~5000MHz	-55.06	Pass

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802.11g	2437	Ant1	5	5000MHz~25000MHz	-41.72	Pass
802.11g	2462	Ant1	1	Reference Level	1.62	Pass
802.11g	2462	Ant1	2	Band Edge	-44.55	Pass
802.11g	2462	Ant1	3	30MHz~2310MHz	-58.65	Pass
802.11g	2462	Ant1	4	2500MHz~5000MHz	-54.79	Pass
802.11g	2462	Ant1	5	5000MHz~25000MHz	-41.83	Pass
802.11n (HT20)	2412	Ant1	1	Reference Level	2.30	Pass
802.11n (HT20)	2412	Ant1	2	Band Edge	-29.31	Pass
802.11n (HT20)	2412	Ant1	3	30MHz~2310MHz	-57.31	Pass
802.11n (HT20)	2412	Ant1	4	2500MHz~5000MHz	-55.57	Pass
802.11n (HT20)	2412	Ant1	5	5000MHz~25000MHz	-41.86	Pass
802.11n (HT20)	2437	Ant1	1	Reference Level	1.99	Pass
802.11n (HT20)	2437	Ant1	2	Band Edge	-54.55	Pass
802.11n (HT20)	2437	Ant1	3	30MHz~2310MHz	-46.23	Pass
802.11n (HT20)	2437	Ant1	4	2500MHz~5000MHz	-54.57	Pass
802.11n (HT20)	2437	Ant1	5	5000MHz~25000MHz	-41.54	Pass
802.11n (HT20)	2462	Ant1	1	Reference Level	1.77	Pass
802.11n (HT20)	2462	Ant1	2	Band Edge	-42.24	Pass
802.11n (HT20)	2462	Ant1	3	30MHz~2310MHz	-57.50	Pass
802.11n (HT20)	2462	Ant1	4	2500MHz~5000MHz	-54.16	Pass
802.11n (HT20)	2462	Ant1	5	5000MHz~25000MHz	-41.40	Pass
802.11n (HT40)	2422	Ant1	1	Reference Level	-1.31	Pass
802.11n (HT40)	2422	Ant1	2	Band Edge	-31.88	Pass
802.11n (HT40)	2422	Ant1	3	30MHz~2310MHz	-48.44	Pass
802.11n (HT40)	2422	Ant1	4	2500MHz~5000MHz	-54.78	Pass

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802.11n (HT40)	2422	Ant1	5	5000MHz~25000MHz	-41.30	Pass
802.11n (HT40)	2437	Ant1	1	Reference Level	-1.47	Pass
802.11n (HT40)	2437	Ant1	2	Band Edge	-37.89	Pass
802.11n (HT40)	2437	Ant1	3	30MHz~2310MHz	-54.24	Pass
802.11n (HT40)	2437	Ant1	4	2500MHz~5000MHz	-54.88	Pass
802.11n (HT40)	2437	Ant1	5	5000MHz~25000MHz	-41.47	Pass
802.11n (HT40)	2452	Ant1	1	Reference Level	-1.53	Pass
802.11n (HT40)	2452	Ant1	2	Band Edge	-33.67	Pass
802.11n (HT40)	2452	Ant1	3	30MHz~2310MHz	-55.84	Pass
802.11n (HT40)	2452	Ant1	4	2500MHz~5000MHz	-48.07	Pass
802.11n (HT40)	2452	Ant1	5	5000MHz~25000MHz	-40.91	Pass

9.2 Test Plots

