

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	100	0.00
802.11b	2437	Ant0	100	0.00
802.11b	2462	Ant0	100	0.00
802.11g	2412	Ant0	100	0.00
802.11g	2437	Ant0	100	0.00
802.11g	2462	Ant0	100	0.00
802.11n (HT20)	2412	Ant0	100	0.00
802.11n (HT20)	2437	Ant0	100	0.00
802.11n (HT20)	2462	Ant0	100	0.00
802.11n (HT40)	2422	Ant0	100	0.00
802.11n (HT40)	2437	Ant0	100	0.00
802.11n (HT40)	2452	Ant0	100	0.00

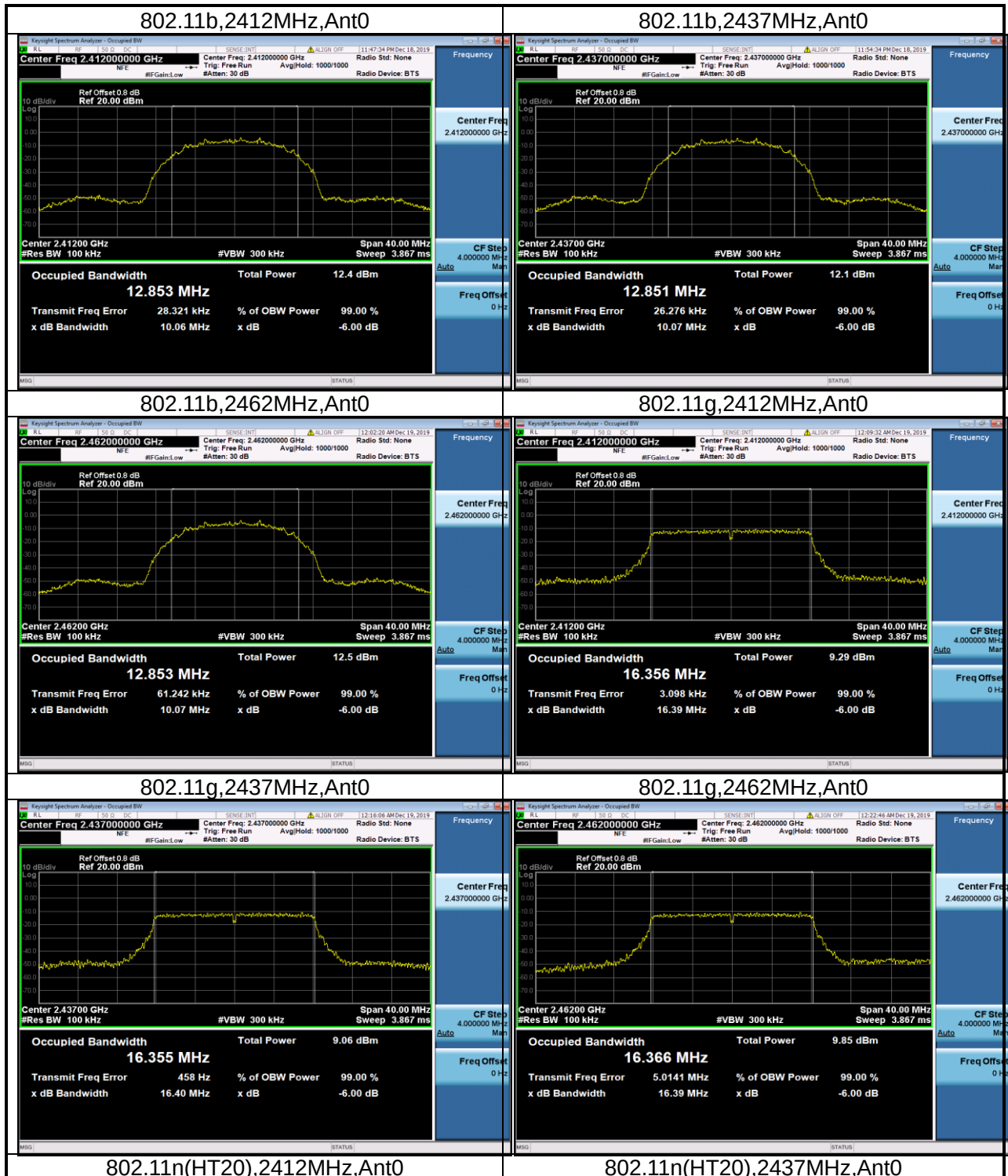
TEST REPORT

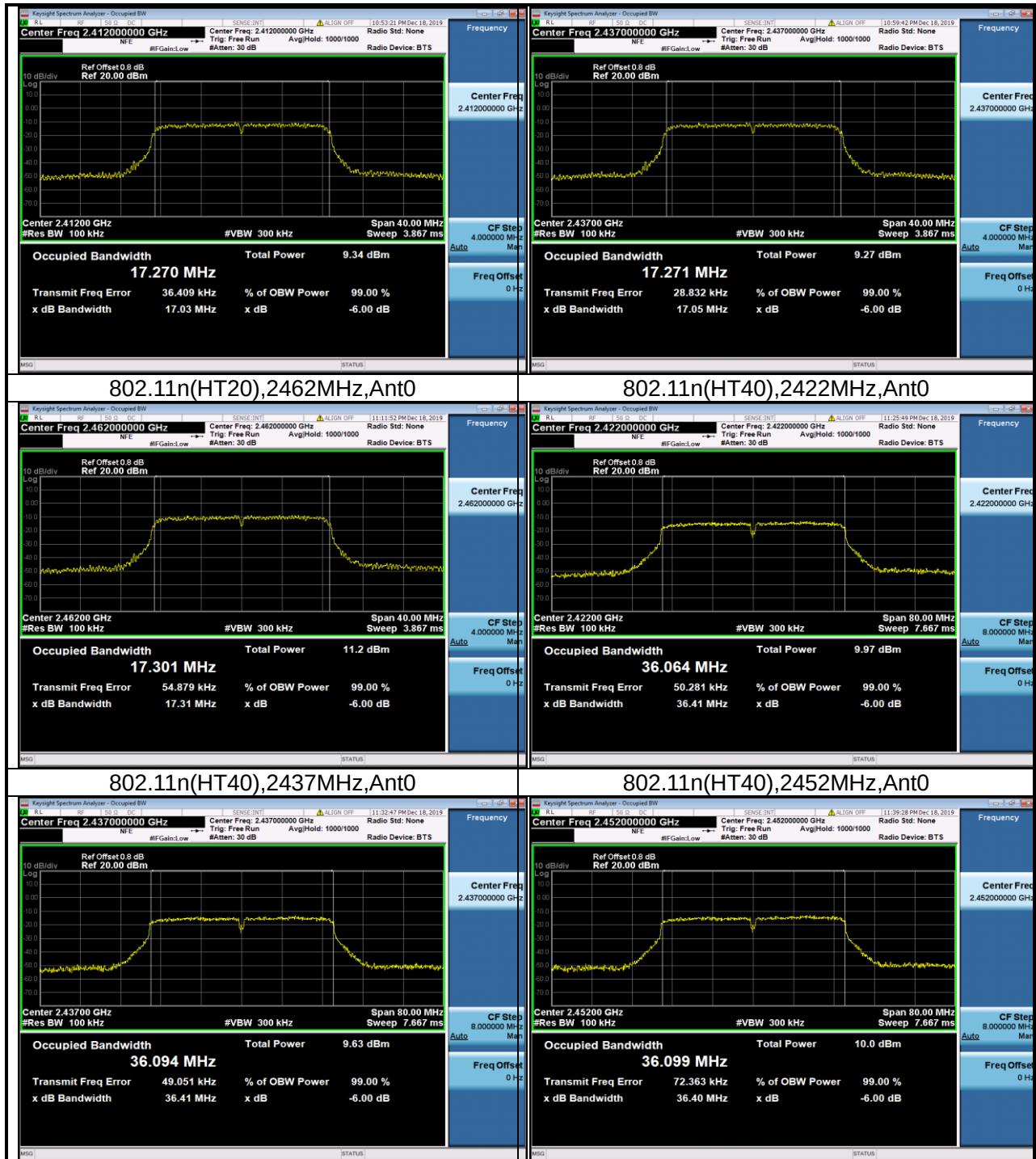
2. Minimum 6dB bandwidth

2.1 Test Data

WLAN Occupied 6dB Bandwidth				
Mode	Test Frequency (MHz)	Ant	Occupied Bandwidth (MHz)	Result
802.11b	2412	Ant0	10.06	Pass
802.11b	2437	Ant0	10.07	Pass
802.11b	2462	Ant0	10.07	Pass
802.11g	2412	Ant0	16.40	Pass
802.11g	2437	Ant0	16.40	Pass
802.11g	2462	Ant0	16.39	Pass
802.11n (HT20)	2412	Ant0	17.03	Pass
802.11n (HT20)	2437	Ant0	17.05	Pass
802.11n (HT20)	2462	Ant0	17.31	Pass
802.11n (HT40)	2422	Ant0	36.41	Pass
802.11n (HT40)	2437	Ant0	36.41	Pass
802.11n (HT40)	2452	Ant0	36.40	Pass

2.2 Test Plots





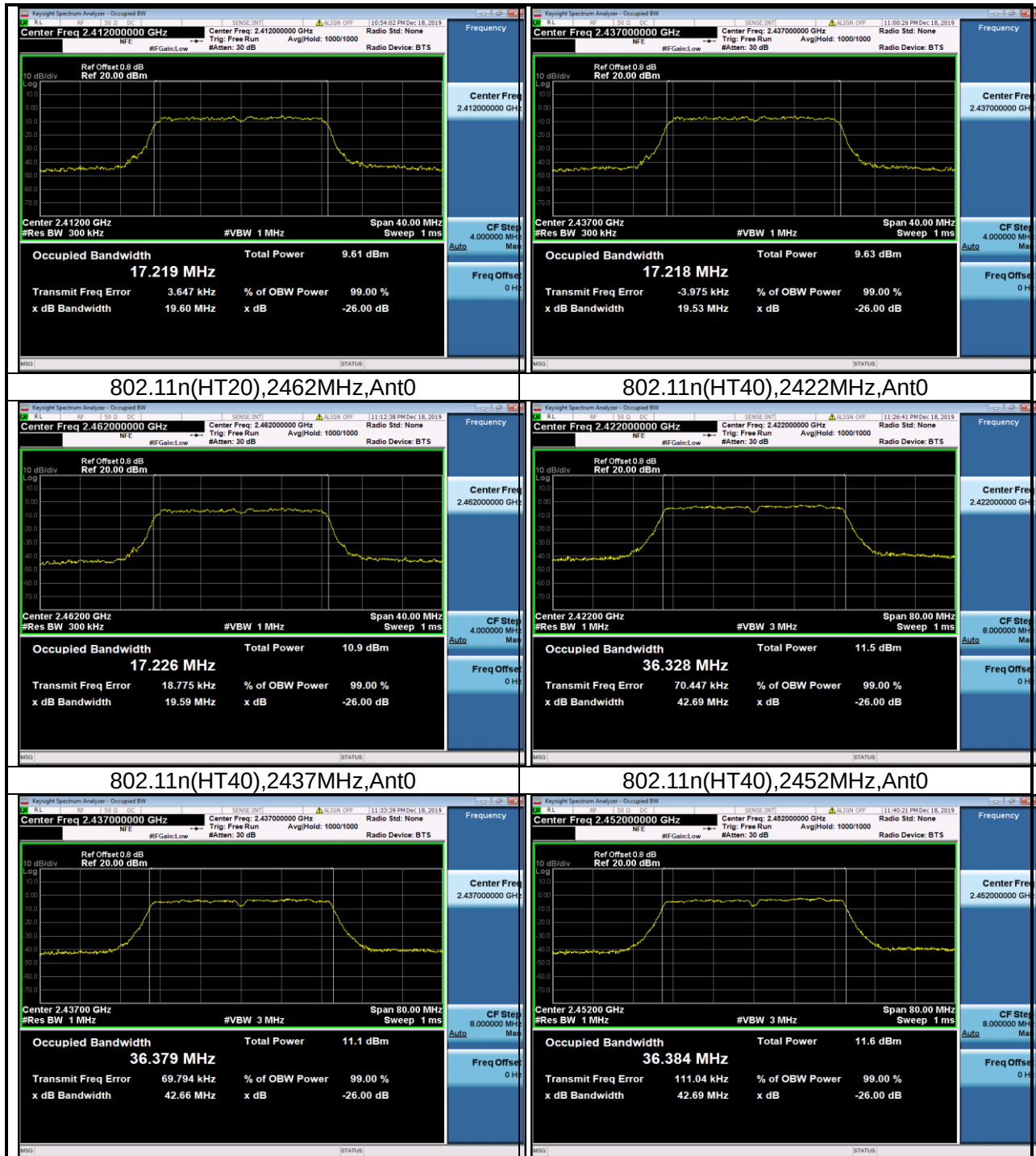
3. Occupied Bandwidth

3.1 Test Data

WLAN 99% Occupied Bandwidth				
Mode	Test Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Result
802.11b	2412	Ant0	12.923	Pass
802.11b	2437	Ant0	12.919	Pass
802.11b	2462	Ant0	12.943	Pass
802.11g	2412	Ant0	16.418	Pass
802.11g	2437	Ant0	16.420	Pass
802.11g	2462	Ant0	16.434	Pass
802.11n (HT20)	2412	Ant0	17.219	Pass
802.11n (HT20)	2437	Ant0	17.218	Pass
802.11n (HT20)	2462	Ant0	17.226	Pass
802.11n (HT40)	2422	Ant0	36.328	Pass
802.11n (HT40)	2437	Ant0	36.379	Pass
802.11n (HT40)	2452	Ant0	36.384	Pass

3.2 Test Plots





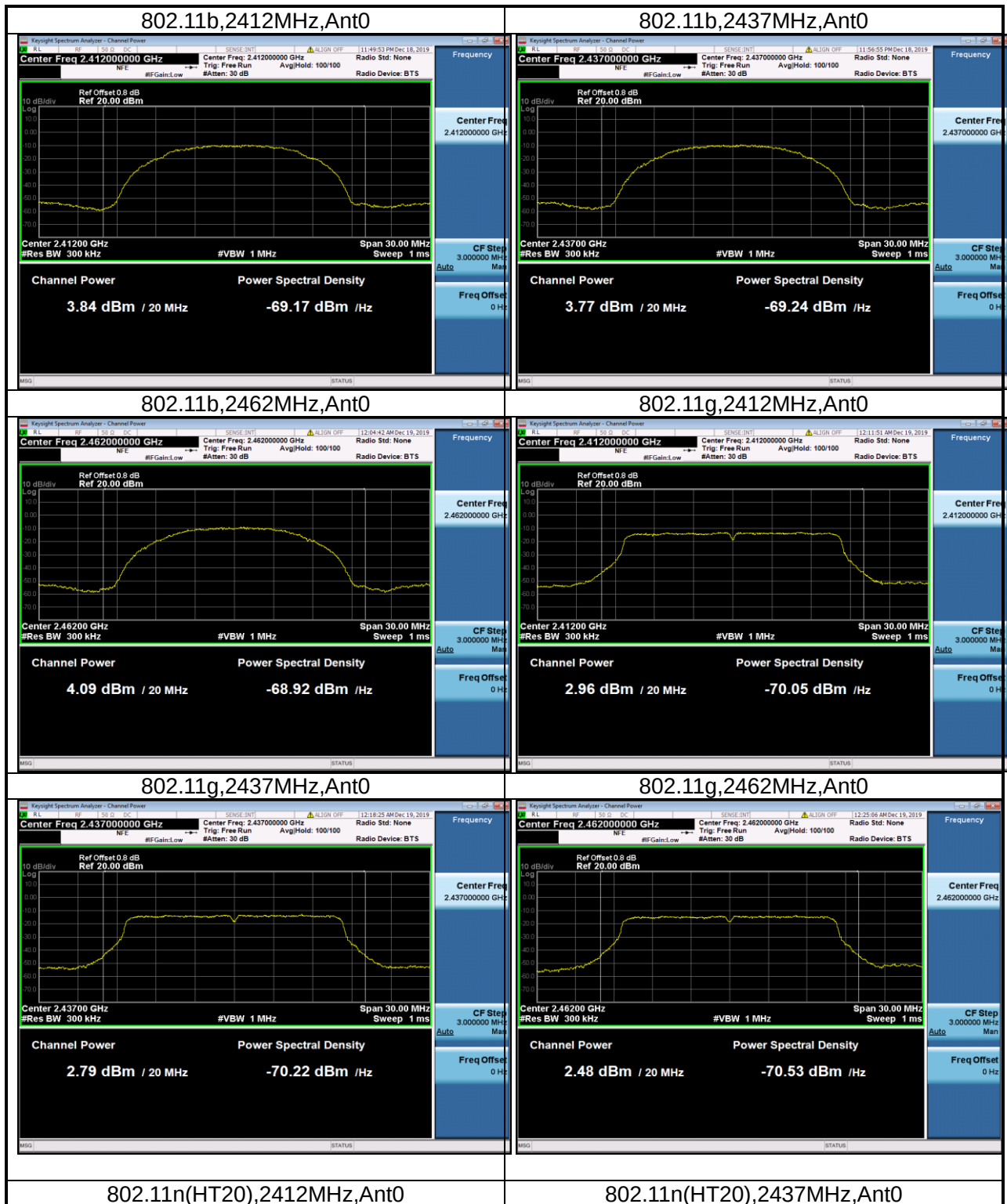
TEST REPORT

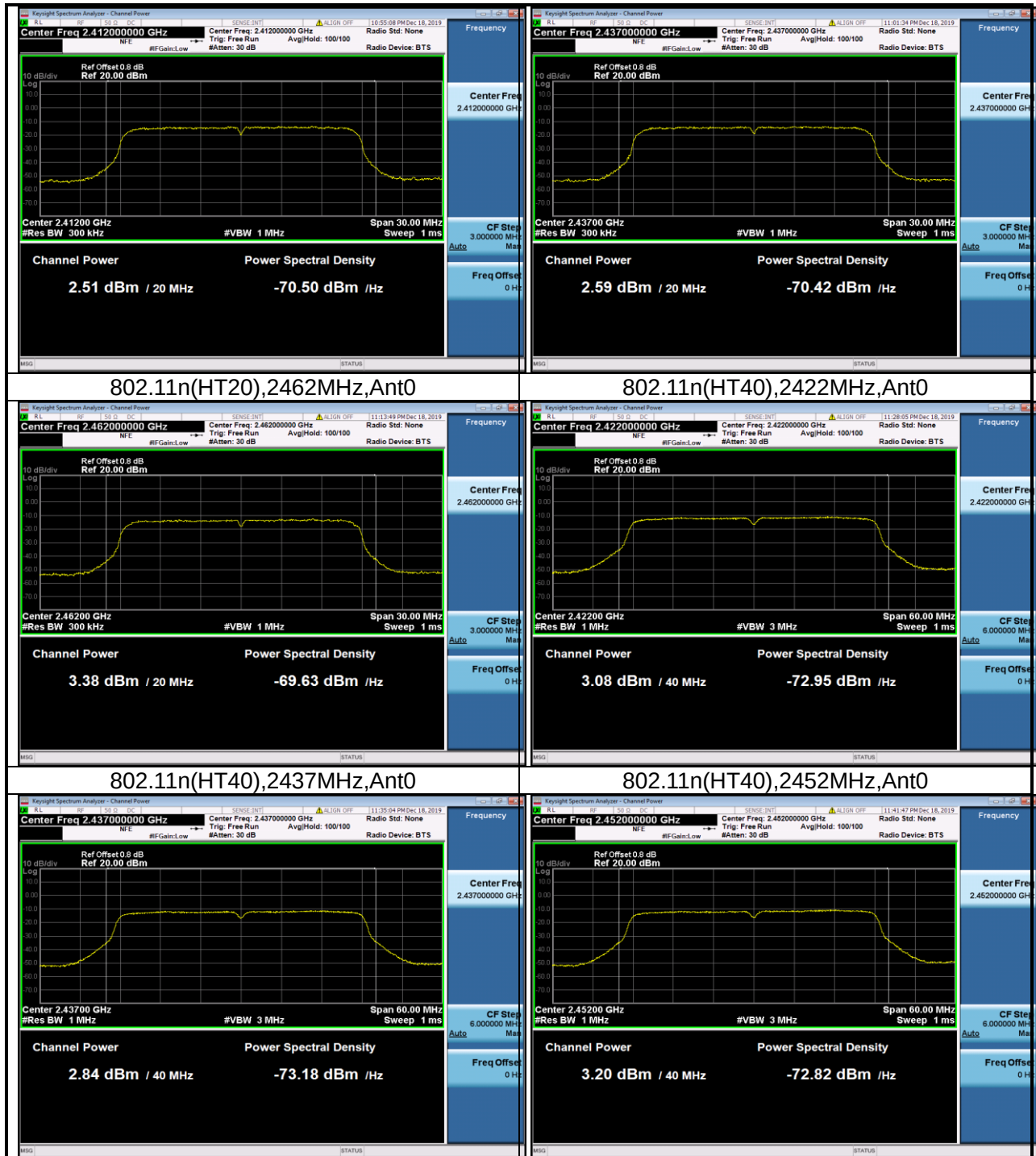
4. Maximum conducted output power and e.i.r.p

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	3.84	30	5.84	Pass
802.11b	2437	Ant0	0.00	3.77	30	5.77	Pass
802.11b	2462	Ant0	0.00	4.09	30	6.09	Pass
802.11g	2412	Ant0	0.00	2.96	30	4.96	Pass
802.11g	2437	Ant0	0.00	2.79	30	4.79	Pass
802.11g	2462	Ant0	0.00	2.48	30	4.48	Pass
802.11n (HT20)	2412	Ant0	0.00	2.51	30	4.51	Pass
802.11n (HT20)	2437	Ant0	0.00	2.59	30	4.59	Pass
802.11n (HT20)	2462	Ant0	0.00	3.38	30	5.38	Pass
802.11n (HT40)	2422	Ant0	0.00	3.08	30	5.08	Pass
802.11n (HT40)	2437	Ant0	0.00	2.84	30	4.84	Pass
802.11n (HT40)	2452	Ant0	0.00	3.20	30	5.20	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	-13.541	100	8	Pass
802.11b	2437	Ant0	0.00	-13.396	100	8	Pass
802.11b	2462	Ant0	0.00	-13.423	100	8	Pass
802.11g	2412	Ant0	0.00	-16.836	100	8	Pass
802.11g	2437	Ant0	0.00	-17.004	100	8	Pass
802.11g	2462	Ant0	0.00	-16.202	100	8	Pass
802.11n (HT20)	2412	Ant0	0.00	-17.199	100	8	Pass
802.11n (HT20)	2437	Ant0	0.00	-17.431	100	8	Pass
802.11n (HT20)	2462	Ant0	0.00	-16.475	100	8	Pass
802.11n (HT40)	2422	Ant0	0.00	-19.589	100	8	Pass
802.11n (HT40)	2437	Ant0	0.00	-20.362	100	8	Pass
802.11n (HT40)	2452	Ant0	0.00	-19.609	100	8	Pass

5.2 Test Plots



