

Appendix B: Test Results for U-NII Band 2a

1 Duty Cycle

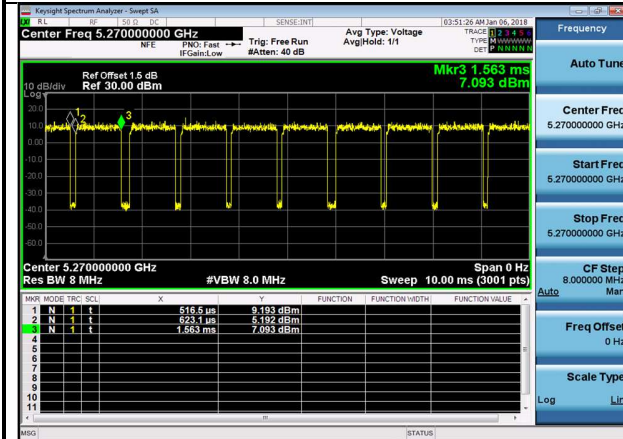
1.1 Test Data

U-NII-2a Duty Cycle				
Mode	Test Frequency(MHz)	Ant	Duty Cycle(%)	Duty Cycle Factor (dB)
802.11a	5260	Ant1	92.33	0.35
802.11a	5300	Ant1	95.34	0.21
802.11a	5320	Ant1	95.05	0.22
802.11n(HT20)	5260	Ant1	92.56	0.34
802.11n(HT20)	5300	Ant1	95.18	0.21
802.11n(HT20)	5320	Ant1	94.70	0.24
802.11n(HT40)	5270	Ant1	89.81	0.47
802.11n(HT40)	5310	Ant1	90.68	0.42
802.11ac(VHT80)	5290	Ant1	82.63	0.83

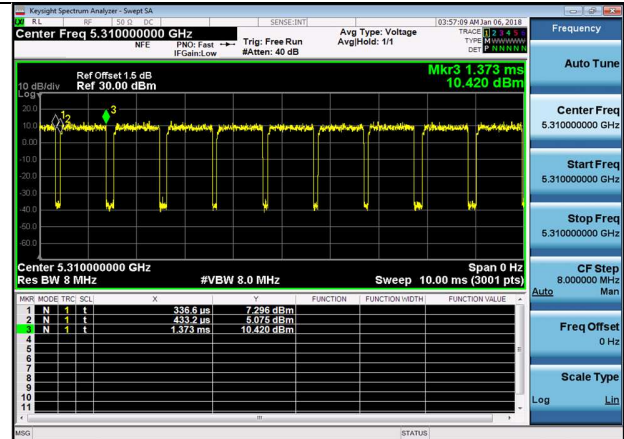
1.2 Test Plots



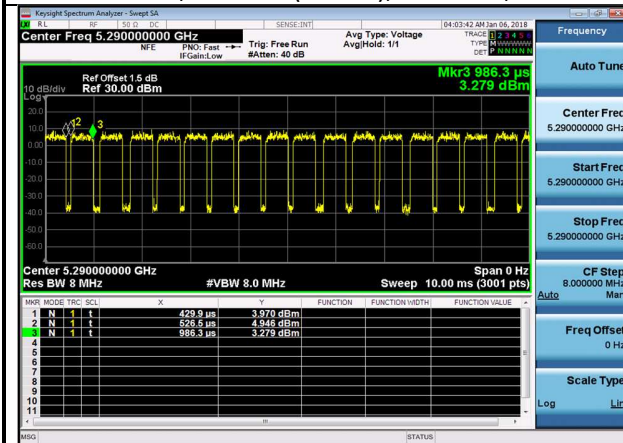
U-NII-2a,802.11n(HT40),5270MHz,Ant1



U-NII-2a,802.11n(HT40),5310MHz,Ant1



U-NII-2a,802.11ac(VHT80),5290MHz,Ant1

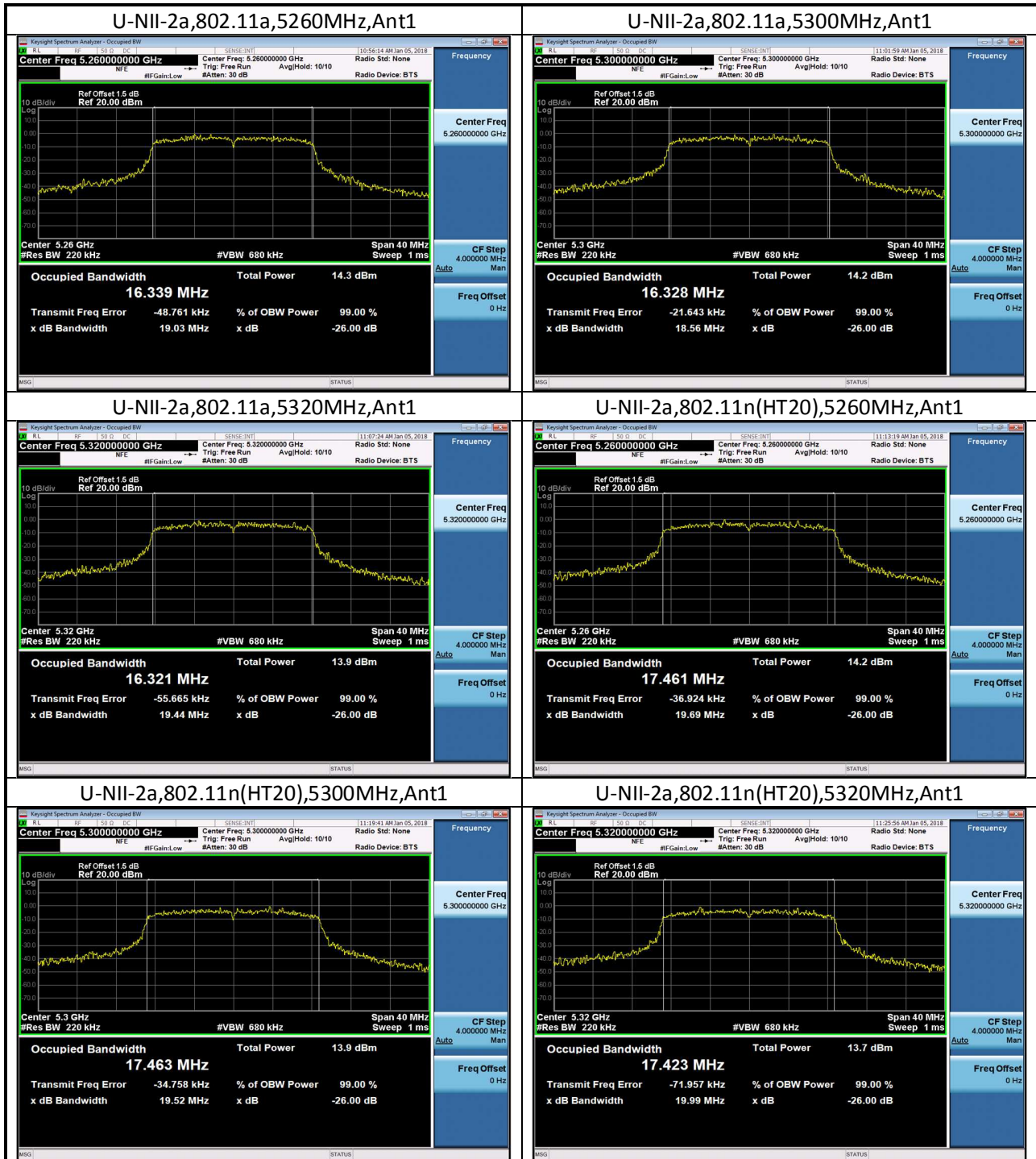


2 26dB bandwidth

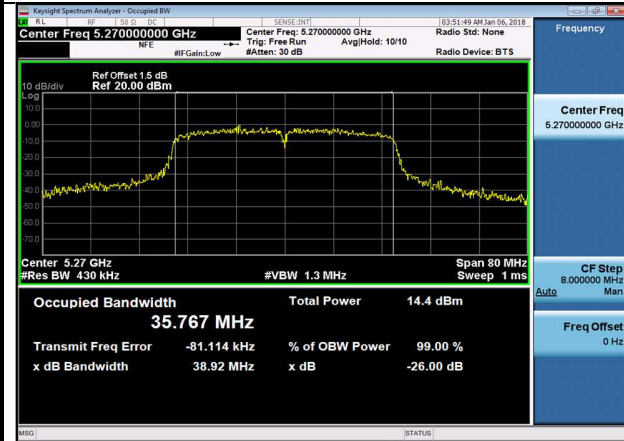
2.1 Test Data

U-NII-2a 26dB Bandwidth				
Mode	Test Frequency(MHz)	Ant	26dB Bandwidth(MHz)	Result
802.11a	5260	Ant1	19.03	Pass
802.11a	5300	Ant1	18.56	Pass
802.11a	5320	Ant1	19.44	Pass
802.11n(HT20)	5260	Ant1	19.69	Pass
802.11n(HT20)	5300	Ant1	19.52	Pass
802.11n(HT20)	5320	Ant1	19.99	Pass
802.11n(HT40)	5270	Ant1	38.92	Pass
802.11n(HT40)	5310	Ant1	40.16	Pass
802.11ac(VHT80)	5290	Ant1	82.17	Pass

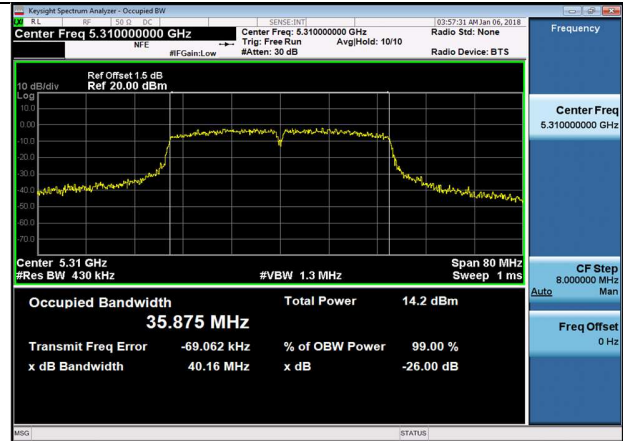
2.2 Test Plots



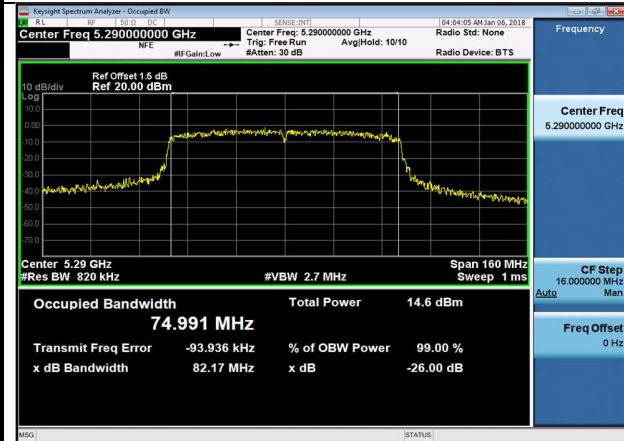
U-NII-2a,802.11n(HT40),5270MHz,Ant1



U-NII-2a,802.11n(HT40),5310MHz,Ant1



U-NII-2a,802.11ac(VHT80),5290MHz,Ant1

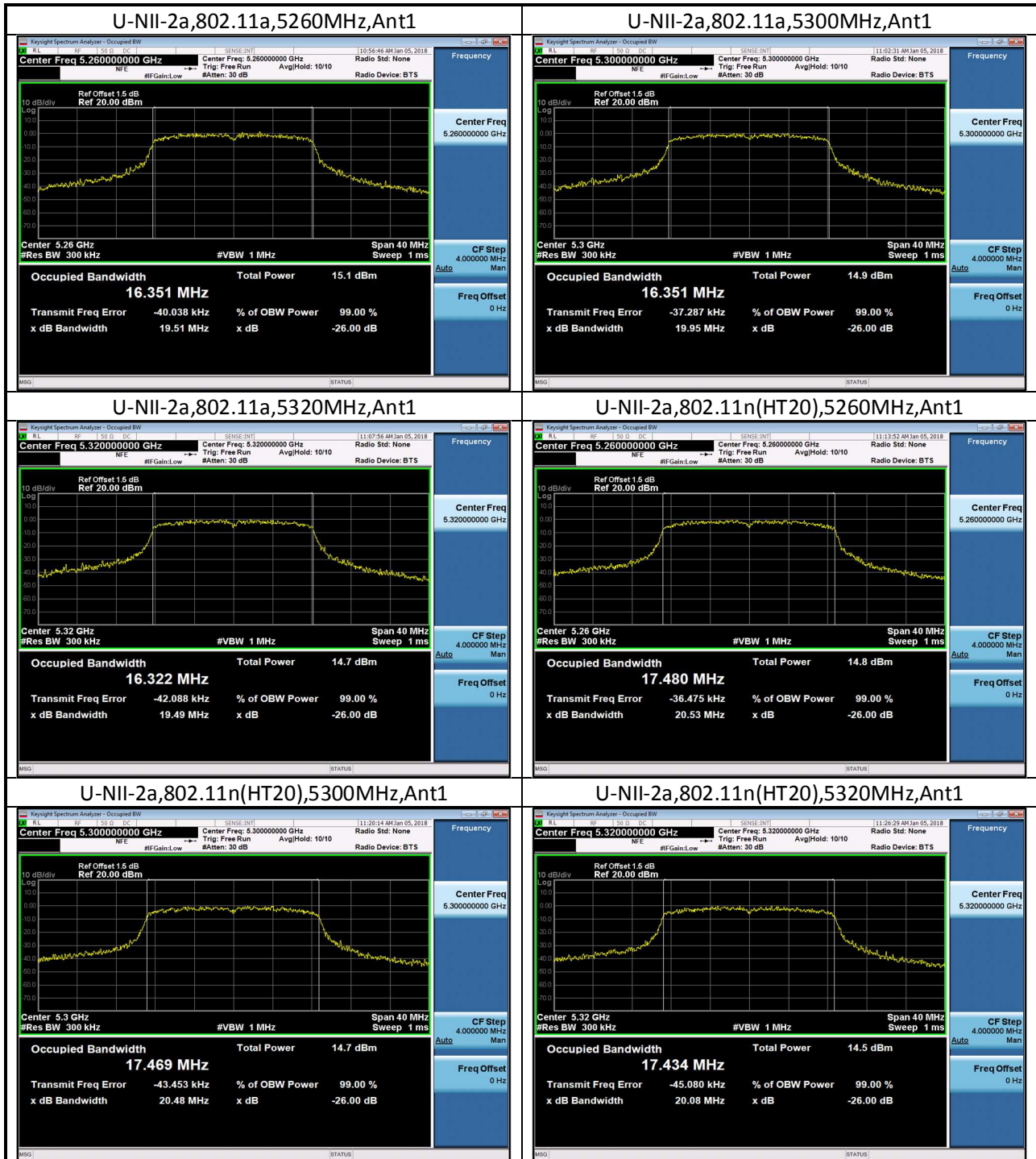


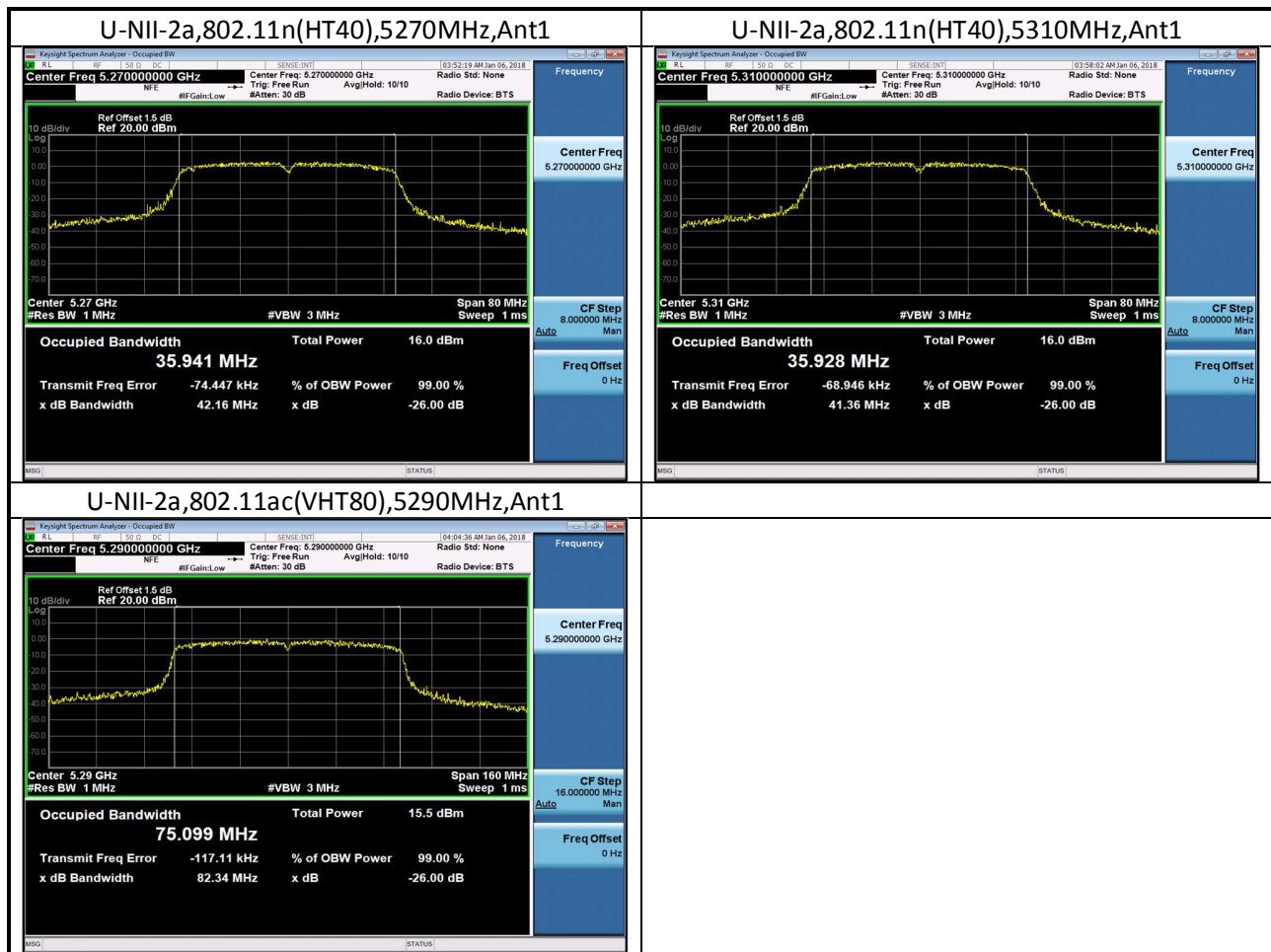
3 Occupied Bandwidth

3.1 Test Data

U-NII-2a 99% Occupied Bandwidth				
Mode	Test Frequency(MHz)	Ant	99% Occupied Bandwidth(MHz)	Result
802.11a	5260	Ant1	16.351	Pass
802.11a	5300	Ant1	16.351	Pass
802.11a	5320	Ant1	16.322	Pass
802.11n(HT20)	5260	Ant1	17.480	Pass
802.11n(HT20)	5300	Ant1	17.469	Pass
802.11n(HT20)	5320	Ant1	17.434	Pass
802.11n(HT40)	5270	Ant1	35.941	Pass
802.11n(HT40)	5310	Ant1	35.928	Pass
802.11ac(VHT80)	5290	Ant1	75.099	Pass

3.2 Test Plots



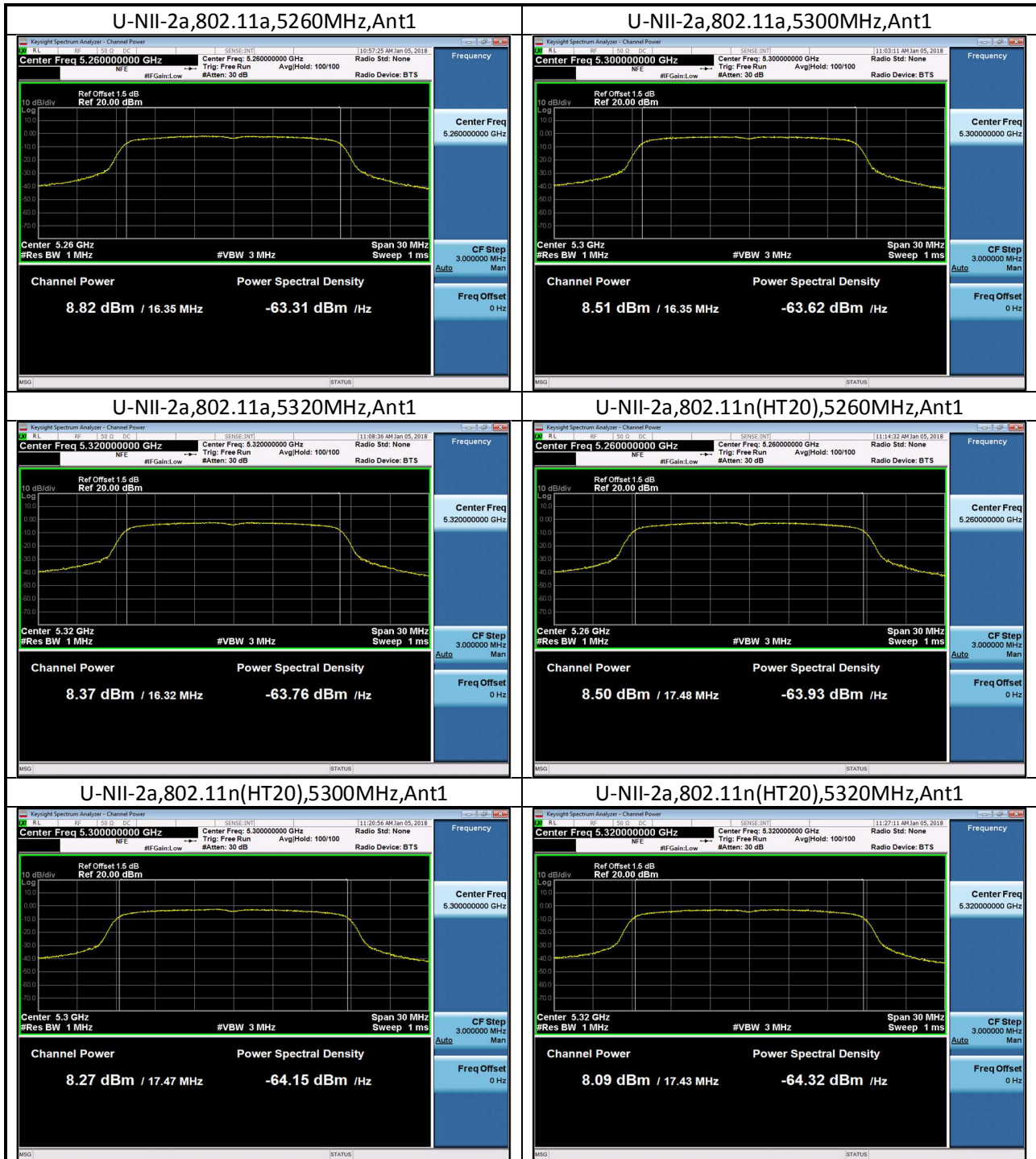


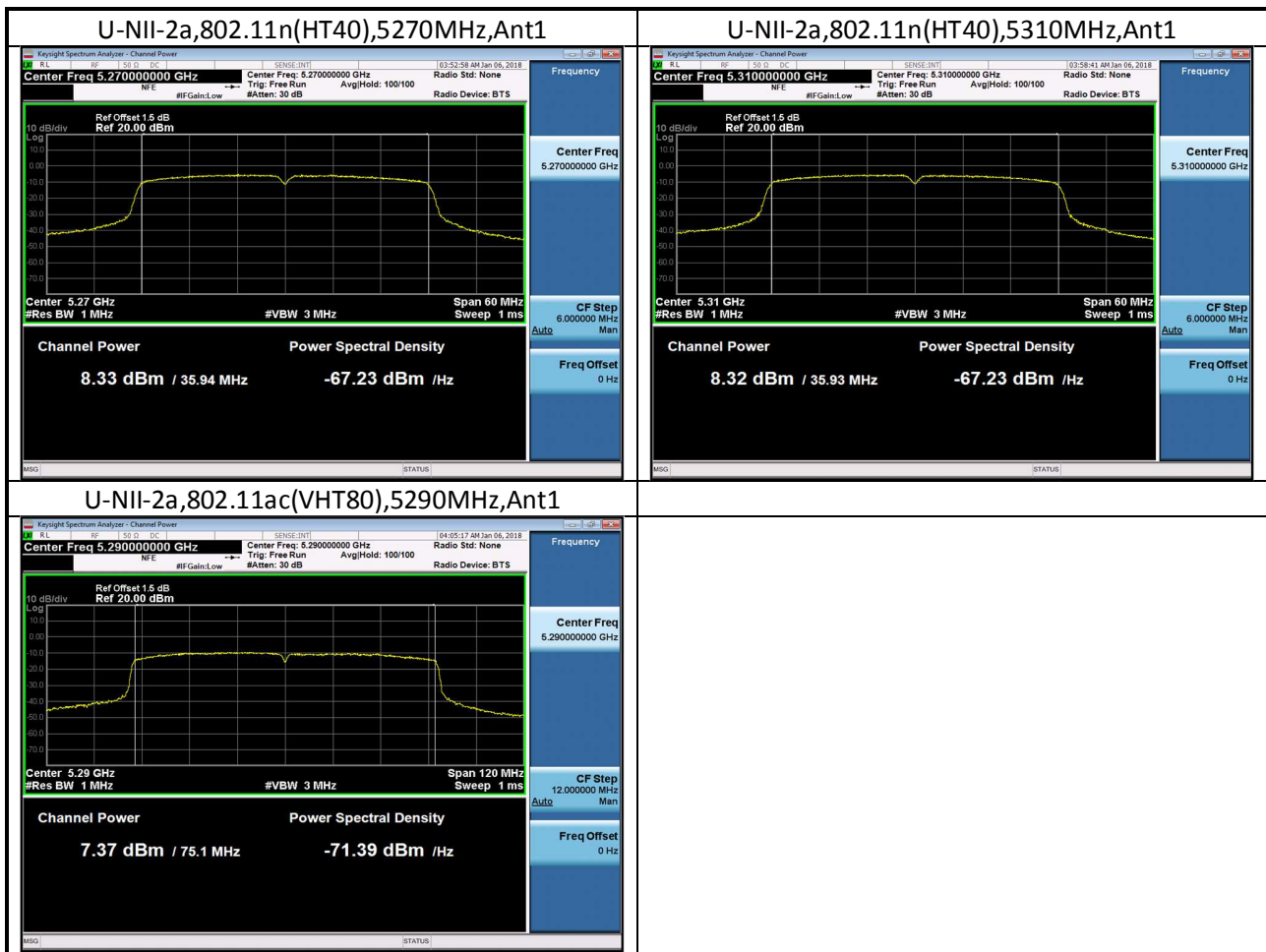
4 Maximum conducted output power and e.i.r.p

4.1 Test Data

U-NII-2a AVGSA Output Power							
Mode	Test Frequency(MHz)	Ant	Duty Cycle Factor (dB)	Max Power (dBm)	Limit (dBm)	EIRP (dBm)	Result
802.11a	5260	Ant1	0.35	9.17	24	13.67	Pass
802.11a	5300	Ant1	0.21	8.72	24	13.22	Pass
802.11a	5320	Ant1	0.22	8.59	24	13.09	Pass
802.11n(HT20)	5260	Ant1	0.34	8.84	24	13.34	Pass
802.11n(HT20)	5300	Ant1	0.21	8.48	24	12.98	Pass
802.11n(HT20)	5320	Ant1	0.24	8.33	24	12.83	Pass
802.11n(HT40)	5270	Ant1	0.47	8.80	24	13.30	Pass
802.11n(HT40)	5310	Ant1	0.42	8.74	24	13.24	Pass
802.11ac(VHT80)	5290	Ant1	0.83	8.20	24	12.70	Pass

4.2 Test Plots





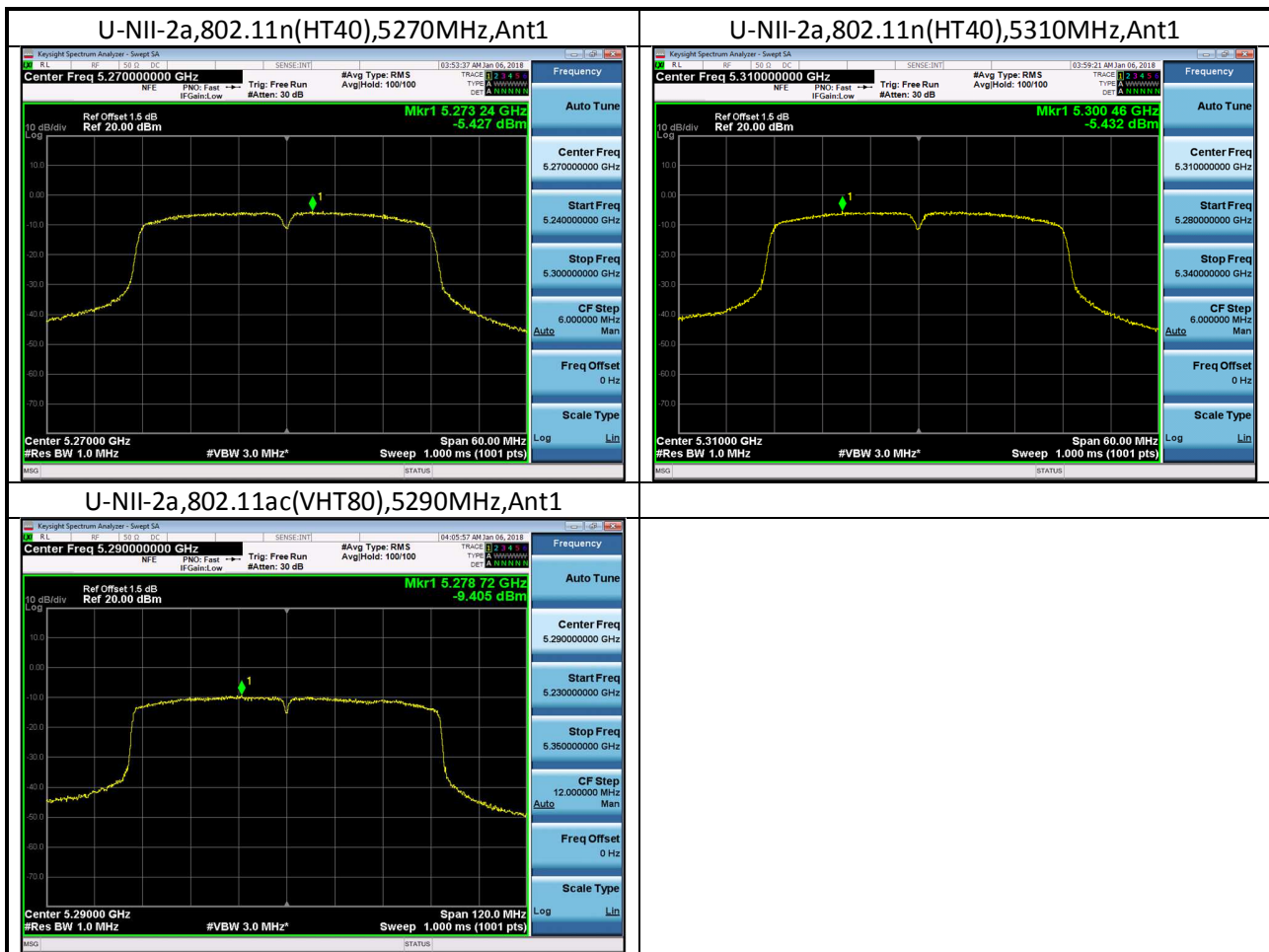
5 Power spectral density

5.1 Test Data

U-NII-2a AVGSA Power Spectral Density						
Mode	Test Frequency(MHz)	Ant	Duty Cycle Factor (dB)	PSD (dBm/MHz)	Limit (dBm/MHz)	Result
802.11a	5260	Ant1	0.35	-1.512	11	Pass
802.11a	5300	Ant1	0.21	-1.559	11	Pass
802.11a	5320	Ant1	0.22	-1.967	11	Pass
802.11n(HT20)	5260	Ant1	0.34	-1.928	11	Pass
802.11n(HT20)	5300	Ant1	0.21	-2.011	11	Pass
802.11n(HT20)	5320	Ant1	0.24	-2.261	11	Pass
802.11n(HT40)	5270	Ant1	0.47	-4.957	11	Pass
802.11n(HT40)	5310	Ant1	0.42	-5.012	11	Pass
802.11ac(VHT80)	5290	Ant1	0.83	-8.575	11	Pass

5.2 Test Plots





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