

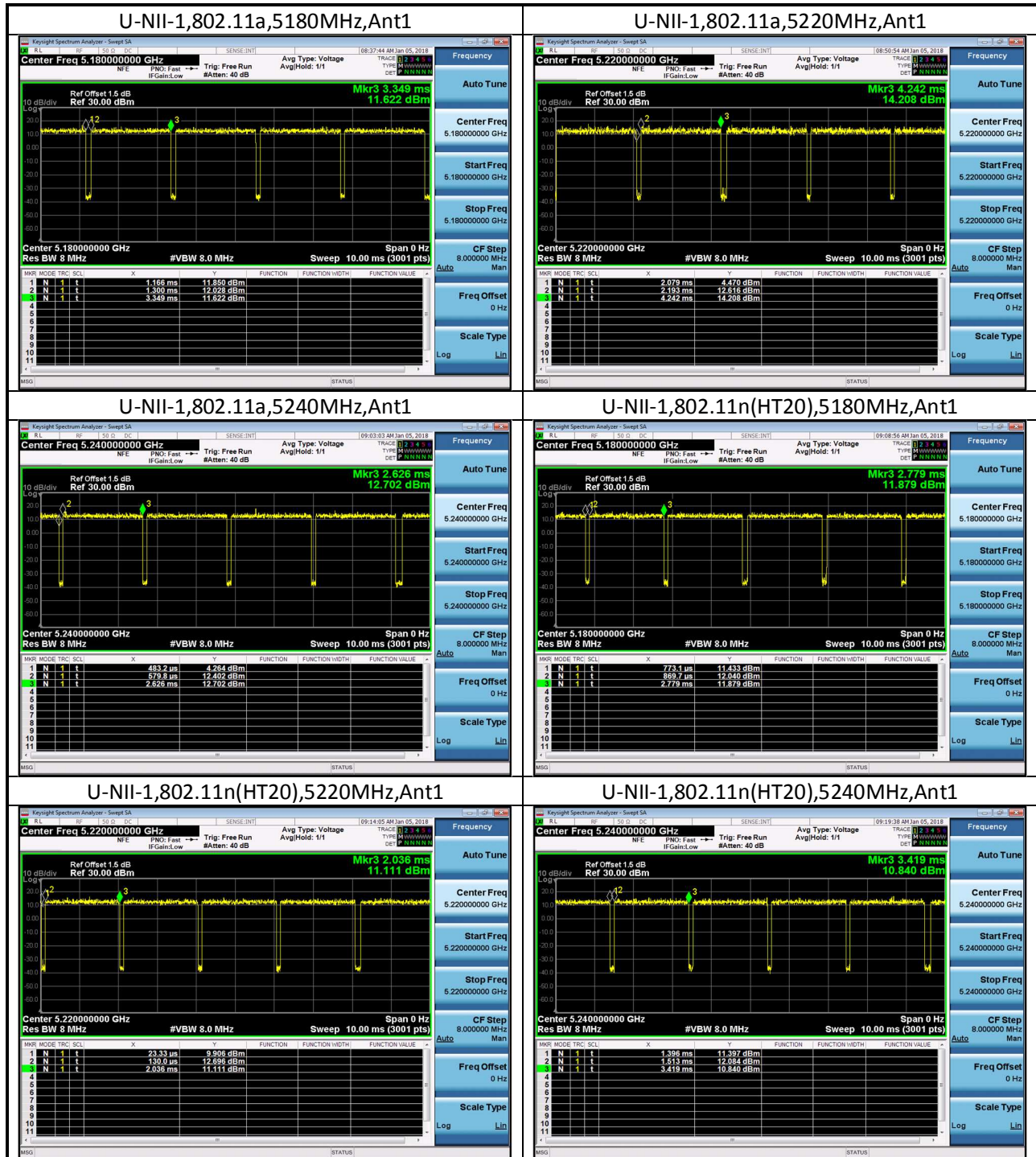
Appendix A: Test Results for U-NII Band 1

1. Duty Cycle

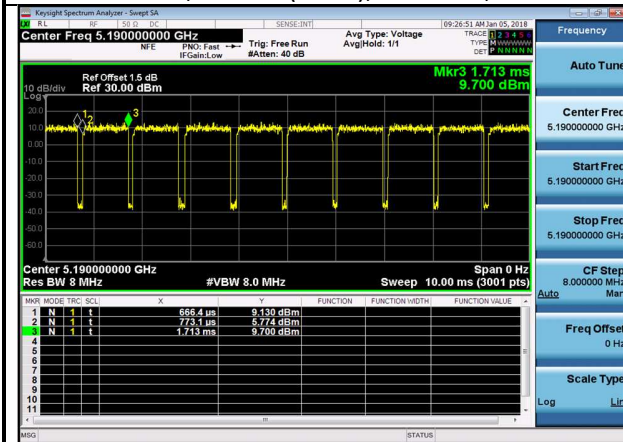
1.1. Test Data

U-NII-1 Duty Cycle				
Mode	Test Frequency(MHz)	Ant	Duty Cycle(%)	Duty Cycle Factor (dB)
802.11a	5180	Ant1	93.89	0.27
802.11a	5220	Ant1	94.76	0.23
802.11a	5240	Ant1	95.49	0.20
802.11n(HT20)	5180	Ant1	95.18	0.21
802.11n(HT20)	5220	Ant1	94.70	0.24
802.11n(HT20)	5240	Ant1	94.23	0.26
802.11n(HT40)	5190	Ant1	89.81	0.47
802.11n(HT40)	5230	Ant1	90.68	0.42
802.11ac(VHT80)	5210	Ant1	72.25	1.41

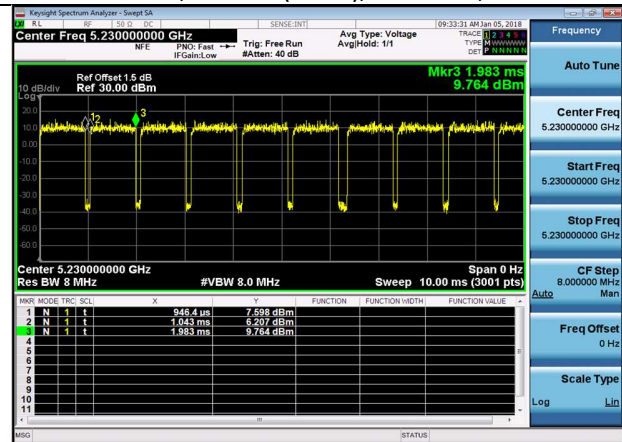
1.2. Test Plots



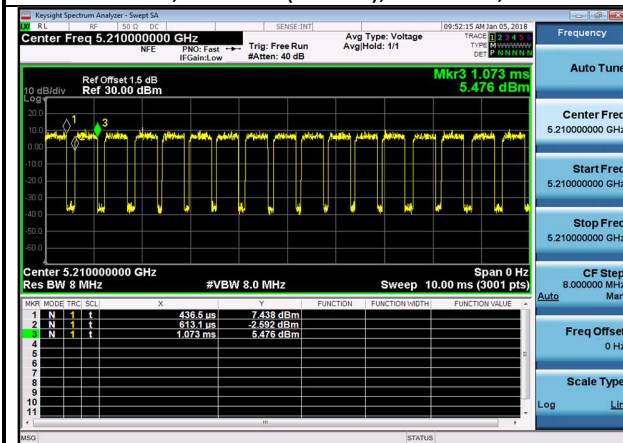
U-NII-1,802.11n(HT40),5190MHz,Ant1



U-NII-1,802.11n(HT40),5230MHz,Ant1



U-NII-1,802.11ac(VHT80),5210MHz,Ant1

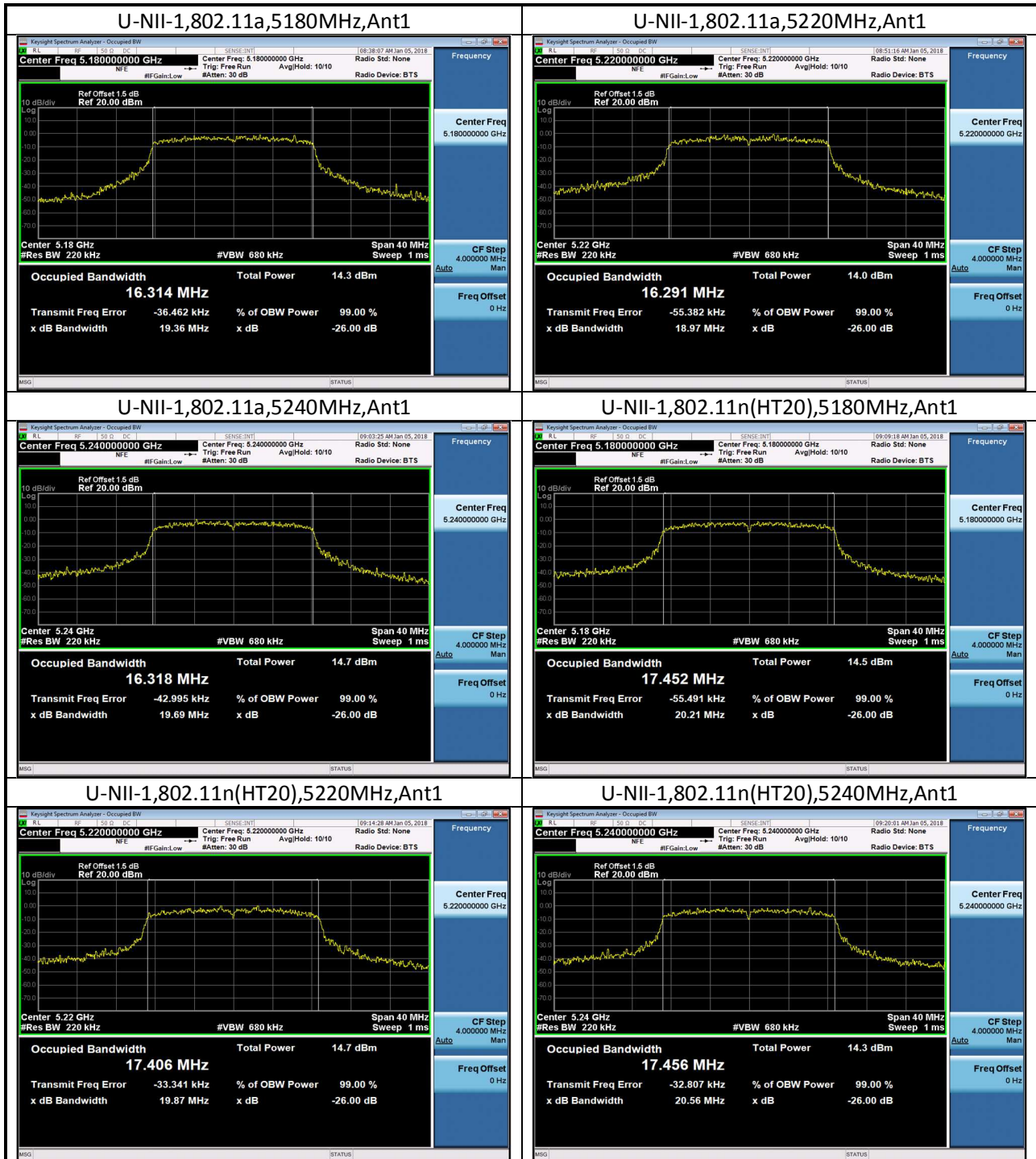


2. 26dB bandwidth

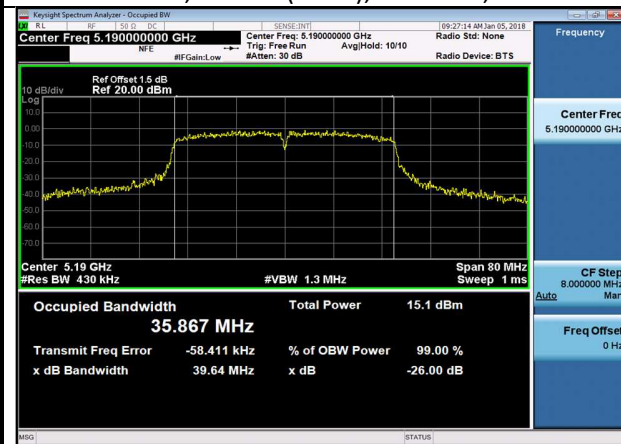
2.1. Test Data

U-NII-1 26dB Bandwidth				
Mode	Test Frequency(MHz)	Ant	26dB Bandwidth(MHz)	Result
802.11a	5180	Ant1	19.36	Pass
802.11a	5220	Ant1	18.97	Pass
802.11a	5240	Ant1	19.69	Pass
802.11n(HT20)	5180	Ant1	20.21	Pass
802.11n(HT20)	5220	Ant1	19.87	Pass
802.11n(HT20)	5240	Ant1	20.56	Pass
802.11n(HT40)	5190	Ant1	39.64	Pass
802.11n(HT40)	5230	Ant1	39.72	Pass
802.11ac(VHT80)	5210	Ant1	84.74	Pass

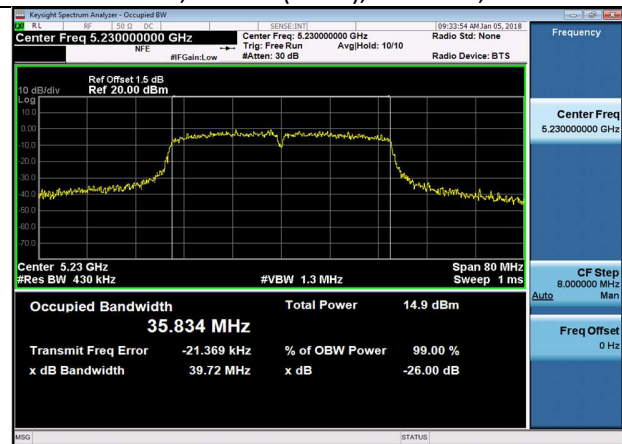
2.2. Test Plots



U-NII-1,802.11n(HT40),5190MHz,Ant1



U-NII-1,802.11n(HT40),5230MHz,Ant1



U-NII-1,802.11ac(VHT80),5210MHz,Ant1

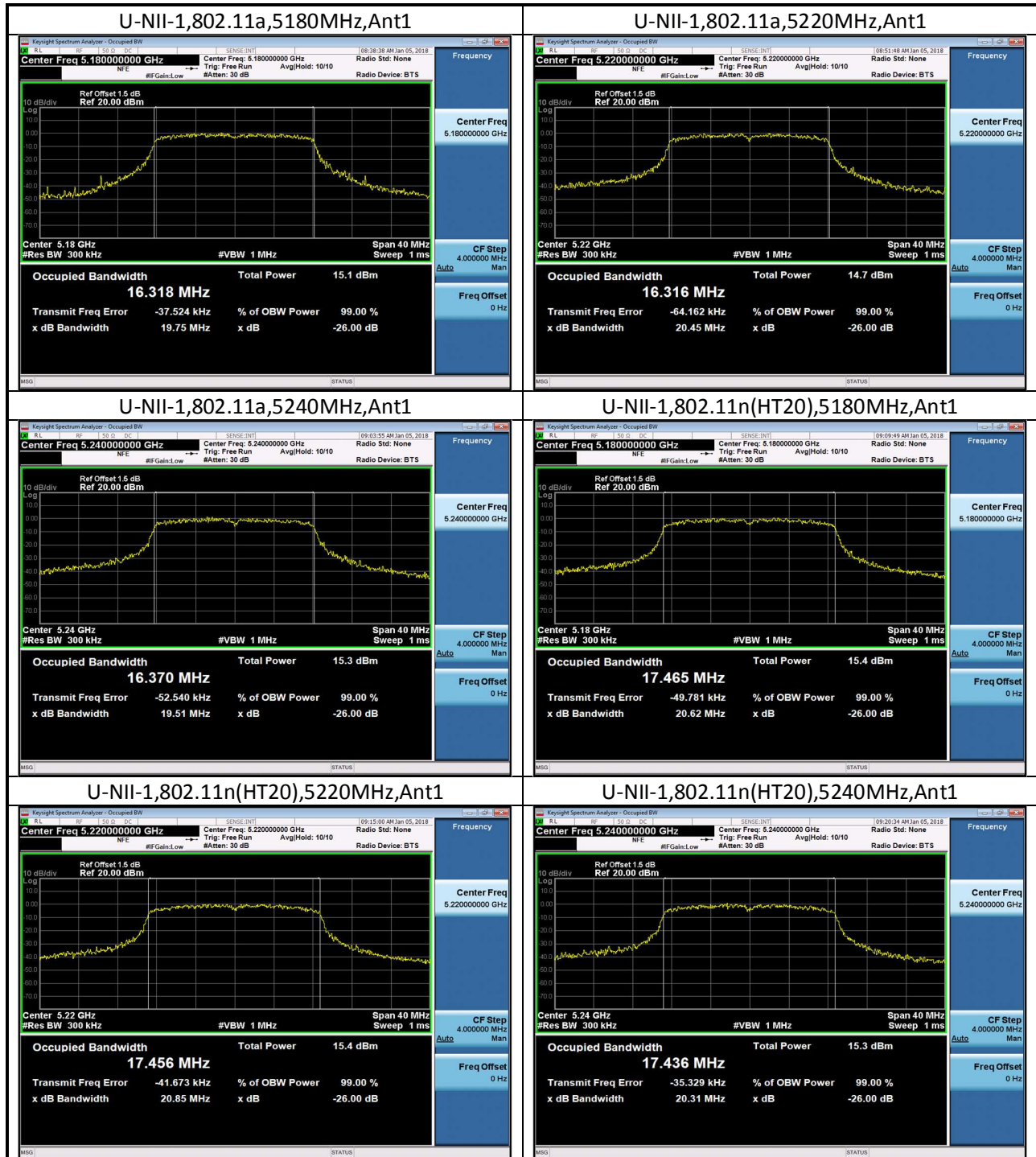


3. 99% Occupied Bandwidth

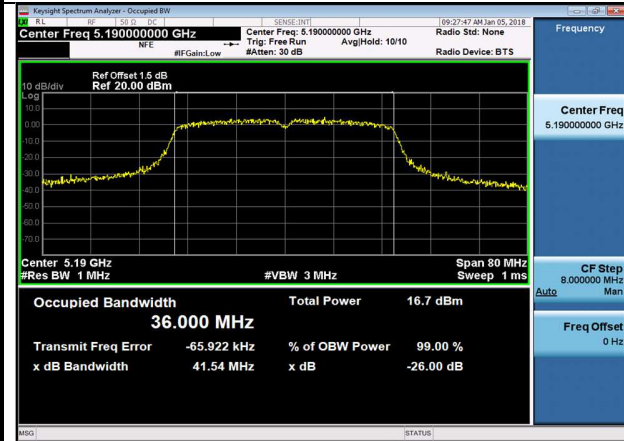
3.1. Test Data

U-NII-1 99% Occupied Bandwidth				
Mode	Test Frequency(MHz)	Ant	99% Occupied Bandwidth(MHz)	Result
802.11a	5180	Ant1	16.318	Pass
802.11a	5220	Ant1	16.316	Pass
802.11a	5240	Ant1	16.370	Pass
802.11n(HT20)	5180	Ant1	17.465	Pass
802.11n(HT20)	5220	Ant1	17.456	Pass
802.11n(HT20)	5240	Ant1	17.436	Pass
802.11n(HT40)	5190	Ant1	36.000	Pass
802.11n(HT40)	5230	Ant1	36.023	Pass
802.11ac(VHT80)	5210	Ant1	75.081	Pass

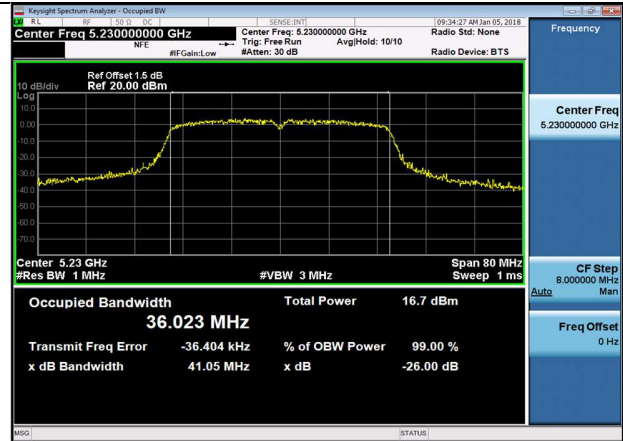
3.2. Test Plots



U-NII-1,802.11n(HT40),5190MHz,Ant1



U-NII-1,802.11n(HT40),5230MHz,Ant1



U-NII-1,802.11ac(VHT80),5210MHz,Ant1

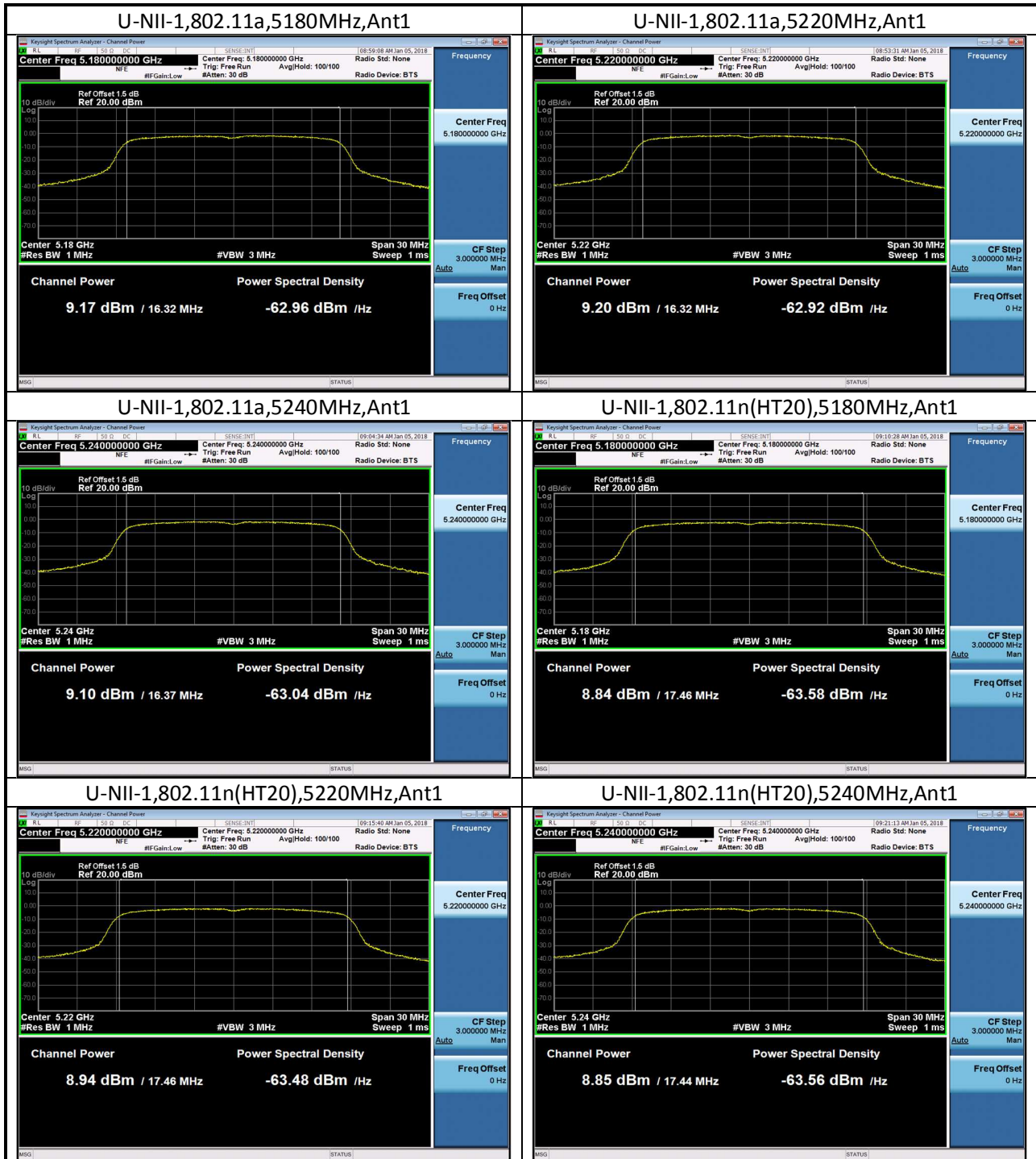


4. Maximum conducted output power and e.i.r.p

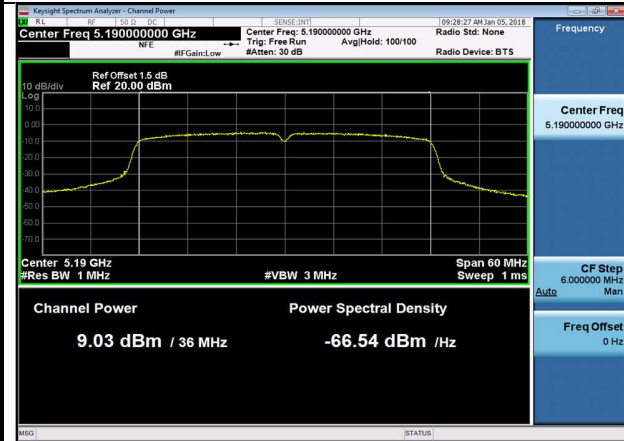
4.1. Test Data

U-NII-1 AVGSA Output Power							
Mode	Test Frequency(MHz)	Ant	Duty Cycle Factor (dB)	Max Power (dBm)	Limit (dBm)	EIRP (dBm)	Result
802.11a	5180	Ant1	0.23	9.40	24	13.90	Pass
802.11a	5220	Ant1	0.23	9.43	24	13.93	Pass
802.11a	5240	Ant1	0.20	9.30	24	13.80	Pass
802.11n(HT20)	5180	Ant1	0.21	9.05	24	13.55	Pass
802.11n(HT20)	5220	Ant1	0.24	9.18	24	13.68	Pass
802.11n(HT20)	5240	Ant1	0.26	9.11	24	13.61	Pass
802.11n(HT40)	5190	Ant1	0.47	9.50	24	14.00	Pass
802.11n(HT40)	5230	Ant1	0.42	9.32	24	13.82	Pass
802.11ac(VHT80)	5210	Ant1	1.41	9.22	24	13.72	Pass

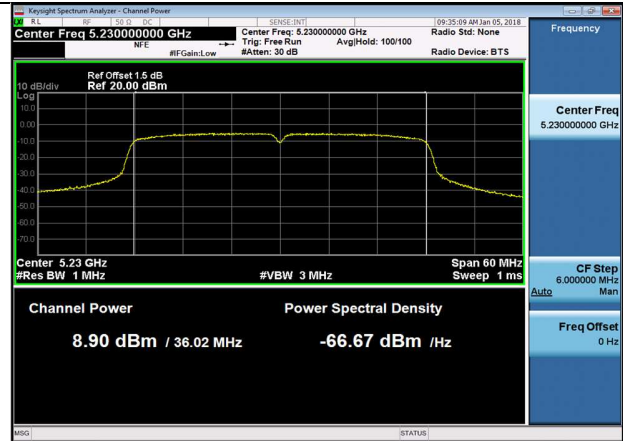
4.2. Test Plots



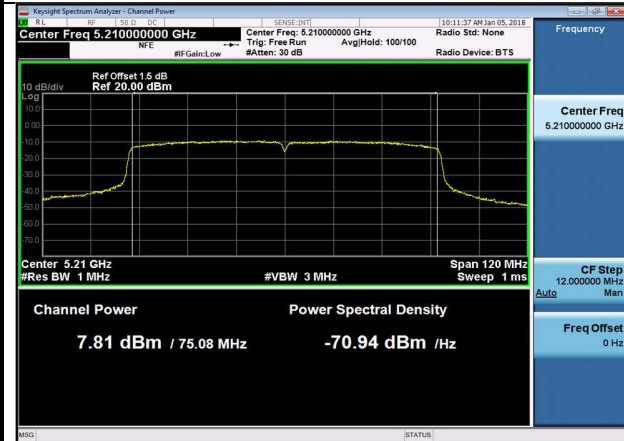
U-NII-1,802.11n(HT40),5190MHz,Ant1



U-NII-1,802.11n(HT40),5230MHz,Ant1



U-NII-1,802.11ac(VHT80),5210MHz,Ant1



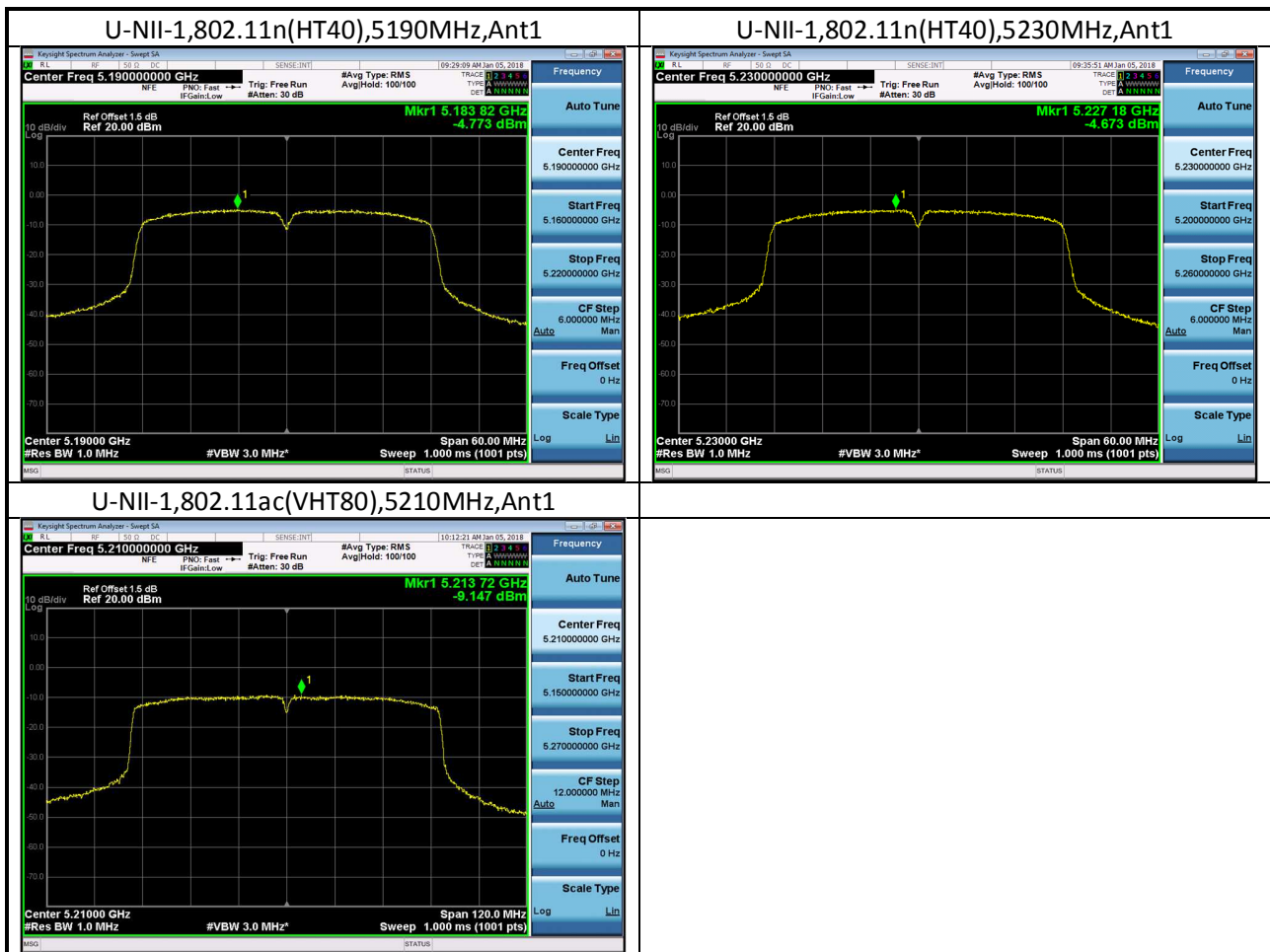
5. Power spectral density

5.1. Test Data

U-NII-1 AVGSA Power Spectral Density						
Mode	Test Frequency(MHz)	Ant	Duty Cycle Factor (dB)	PSD (dBm/MHz)	Limit (dBm/MHz)	Result
802.11a	5180	Ant1	0.23	-0.879	11	Pass
802.11a	5220	Ant1	0.23	-0.971	11	Pass
802.11a	5240	Ant1	0.20	-1.004	11	Pass
802.11n(HT20)	5180	Ant1	0.21	-1.681	11	Pass
802.11n(HT20)	5220	Ant1	0.24	-1.375	11	Pass
802.11n(HT20)	5240	Ant1	0.26	-1.577	11	Pass
802.11n(HT40)	5190	Ant1	0.47	-4.303	11	Pass
802.11n(HT40)	5230	Ant1	0.42	-4.253	11	Pass
802.11ac(VHT80)	5210	Ant1	1.41	-7.737	11	Pass

5.2. Test Plots





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