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APPENDIX A

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APPENDIX A

TEST PLOTS

(Model: 15Z970)

File Number: C1M16011059

Report Number: EM-F160753

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A.1 EMISSION BANDWIDTH MEASUREMENT

Test Date	2016/11/18 ~ 21	Temp./Hum.	25°C/55%
Test Voltage	AC 120V, 60Hz (via AC Adapter)		

A.1.1 Emission Bandwidth Result

Modulation Type	UNII Band	Centre Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit
802.11a	I	5180	22.14	16.502	Reference only
		5200	23.73	16.711	
		5240	23.72	16.607	
	II-2A	5260	25.47	16.622	
		5300	23.71	16.640	
		5320	22.32	16.441	
	II-2C	5500	21.70	16.413	
		5600	22.99	16.504	
		5700	23.27	16.500	
		5720	22.81	16.554	
802.11n-HT20	I	5180	24.23	17.722	Reference only
		5200	23.98	17.689	
		5240	23.24	17.677	
	II-2A	5260	22.48	17.663	
		5300	23.32	17.643	
		5320	22.76	17.685	
	II-2C	5500	21.76	17.641	
		5600	23.72	17.705	
		5700	22.28	17.673	
		5720	23.84	17.682	

Modulation Type	UNII Band	Centre Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit
802.11n-HT40	I	5190	44.45	36.147	Reference only
		5230	44.86	36.125	
	II-2A	5270	44.33	36.128	
		5310	44.35	36.130	
	II-2C	5510	44.23	36.102	
		5590	44.97	36.199	
		5670	45.41	36.154	
		5710	44.84	36.128	
802.11ac-VHT80	I	5210	79.81	74.937	Reference only
	II-2A	5290	79.75	74.943	
	II-2C	5530	79.59	74.818	
		5610	79.64	74.987	
		5690	79.45	75.180	

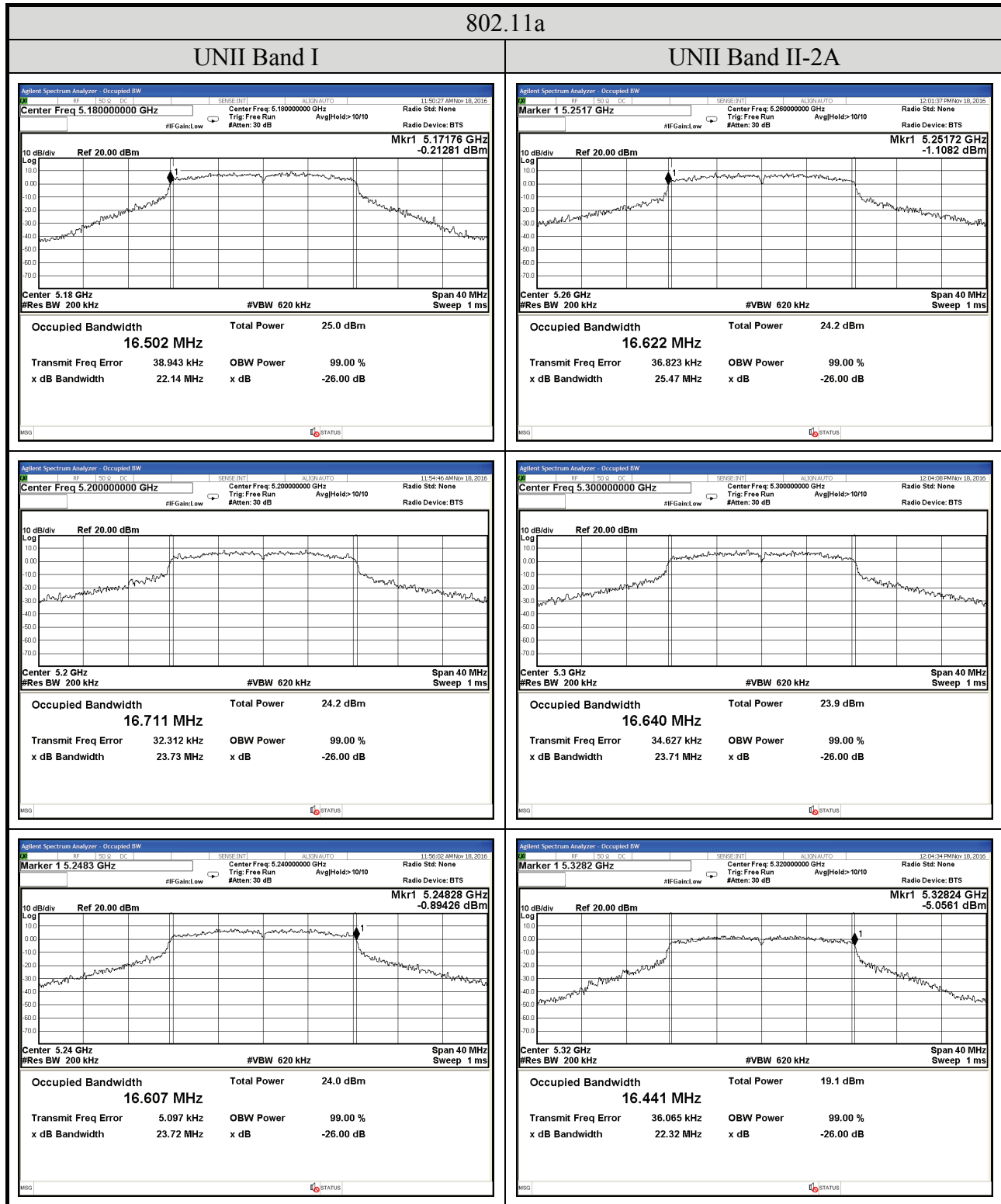
Modulation Type	UNII Band	Centre Frequency (MHz)	6dB Bandwidth (MHz)	Limit
802.11a	III	5745	15.18	≥ 500kHz
		5785	12.93	
		5825	15.10	
802.11n-HT20	III	5745	17.18	
		5785	16.72	
		5825	17.29	
802.11n-HT40	III	5755	35.14	
		5795	35.15	
802.11ac-VHT80	III	5775	75.28	

A.1.2 Measurement Plots

802.11a

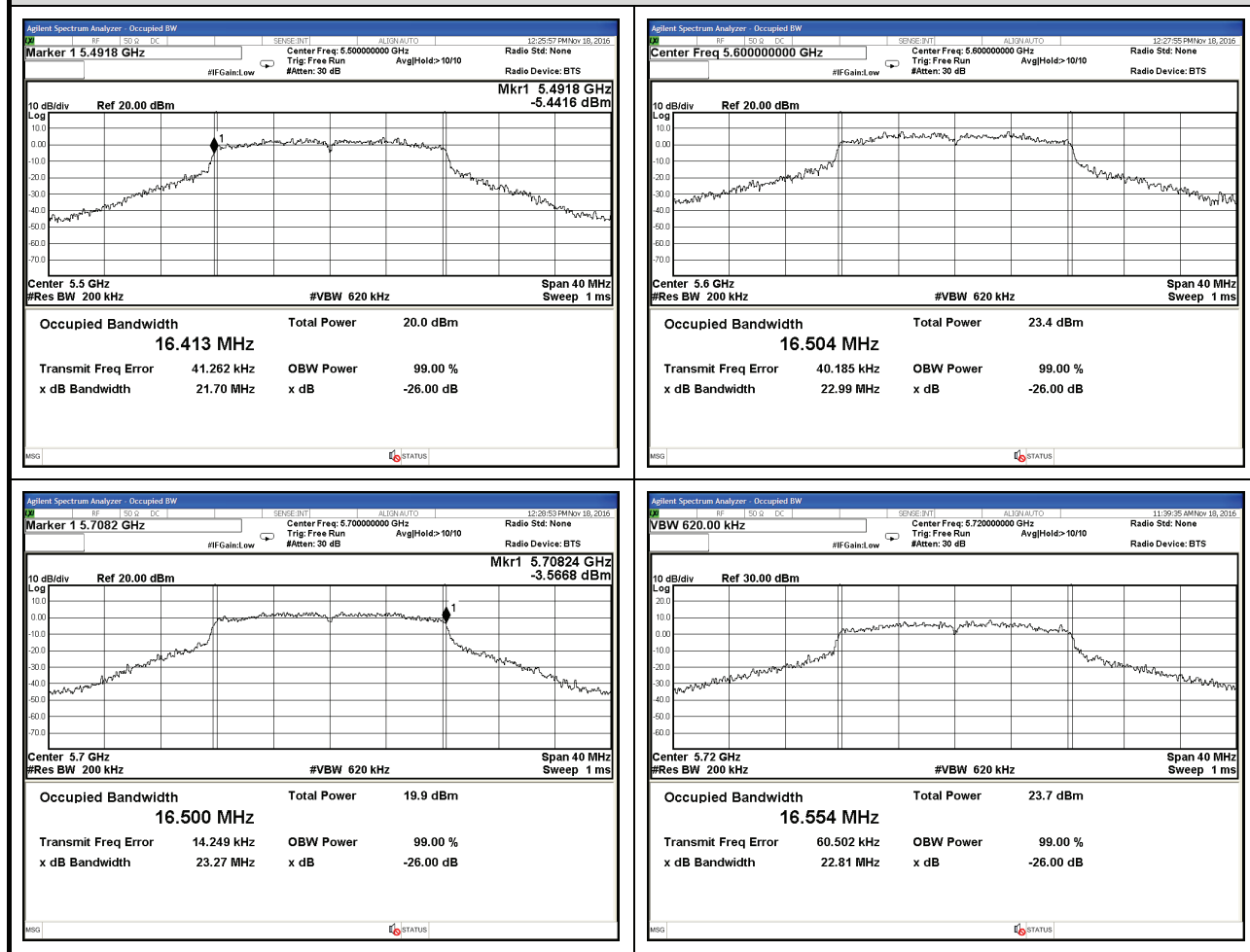
UNII Band I

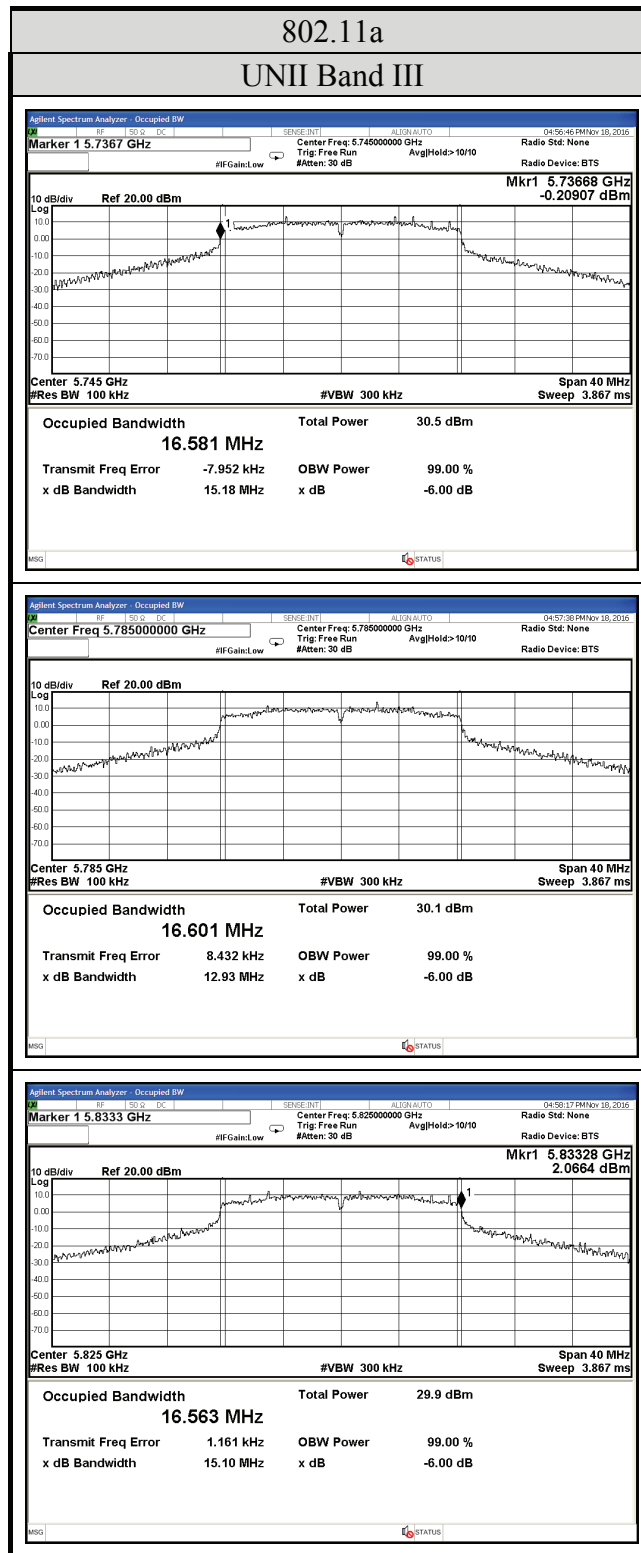
UNII Band II-2A



802.11a

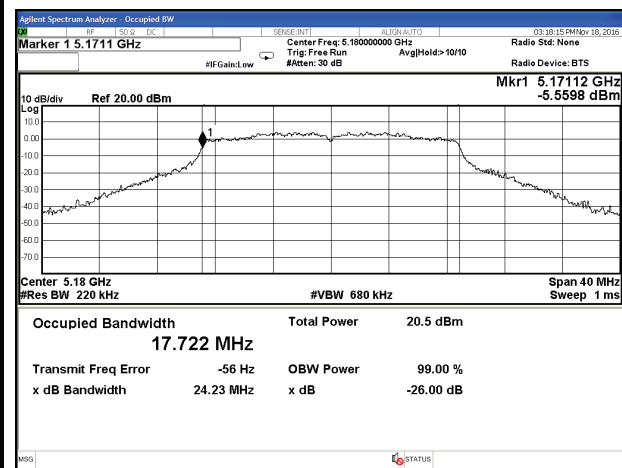
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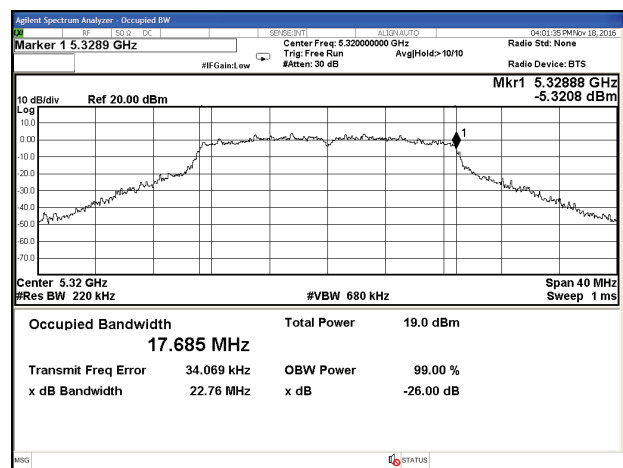
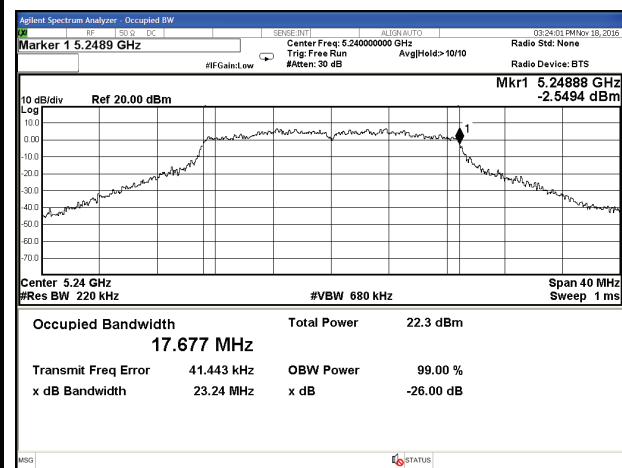
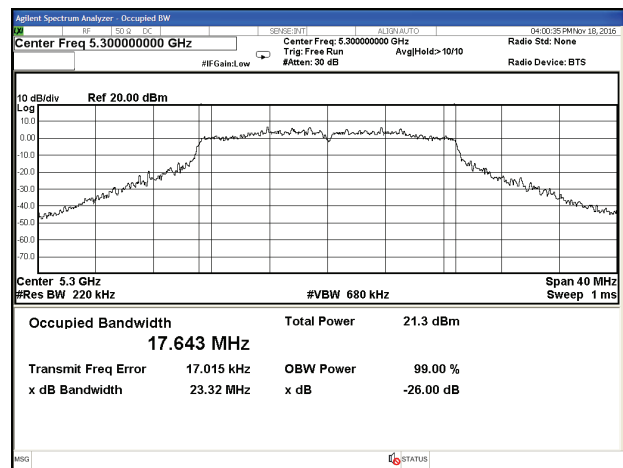
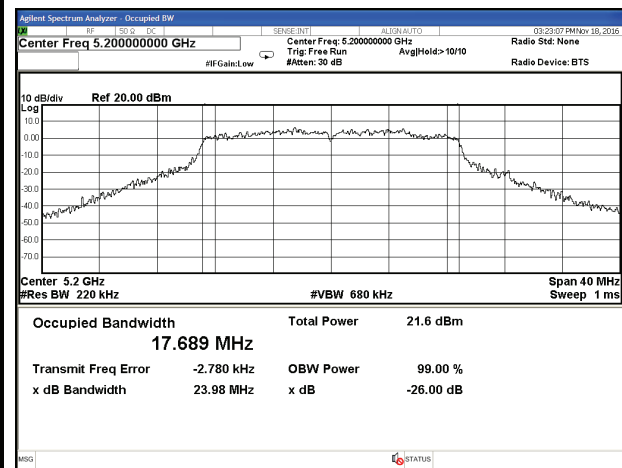
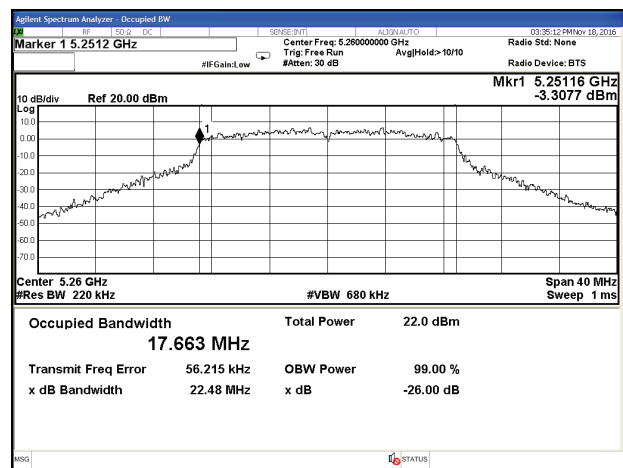


802.11n-HT20

UNII Band I

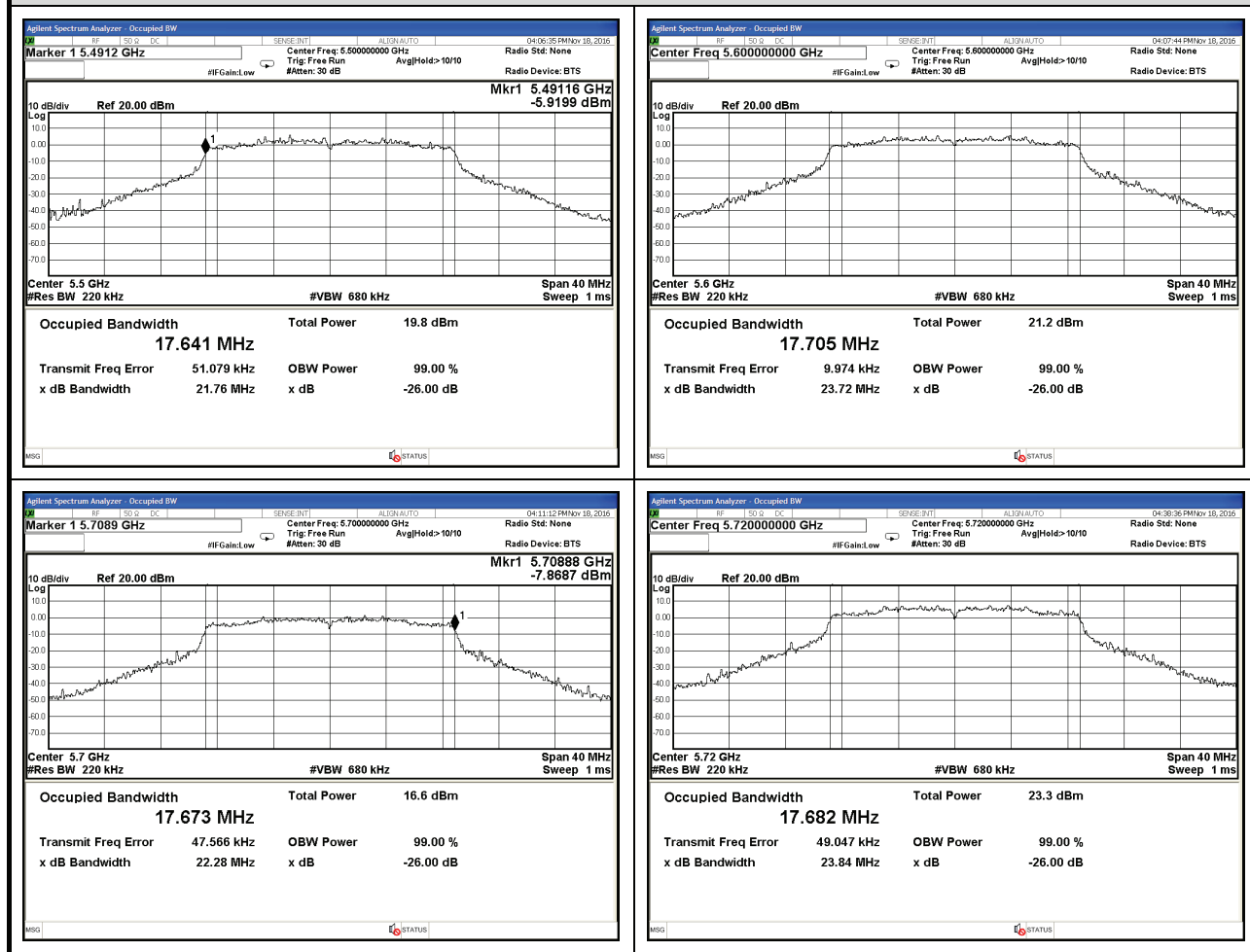


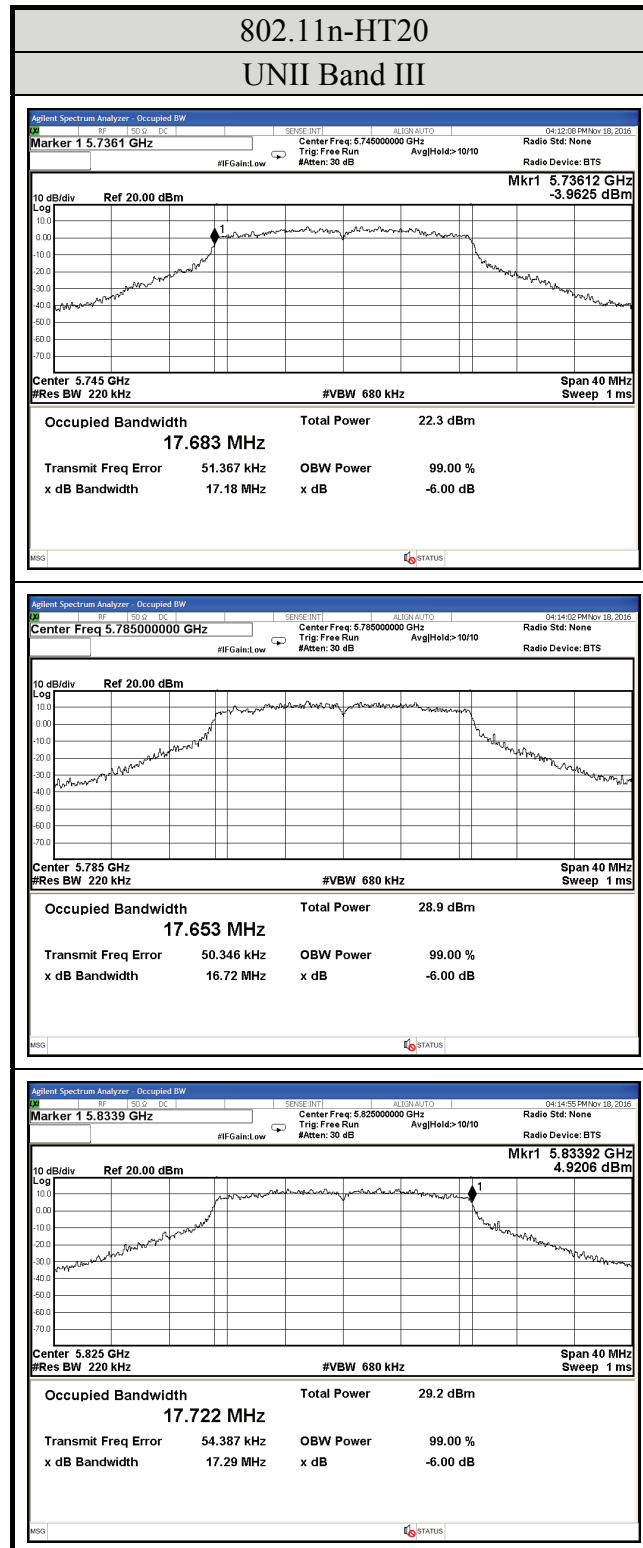
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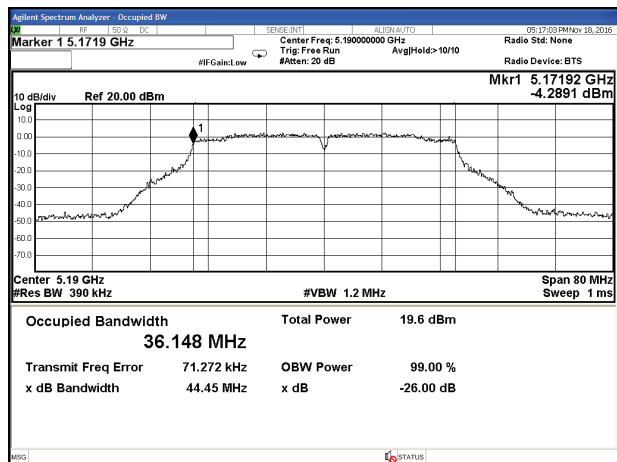
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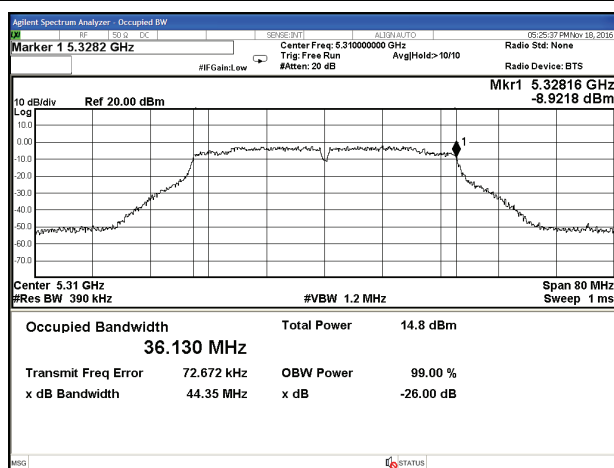
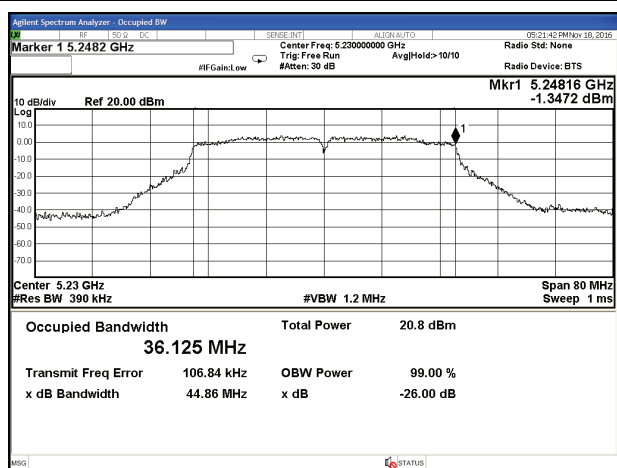
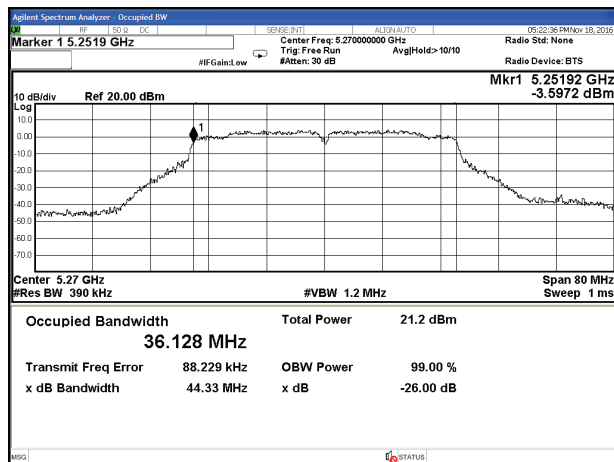


802.11n-HT40

UNII Band I

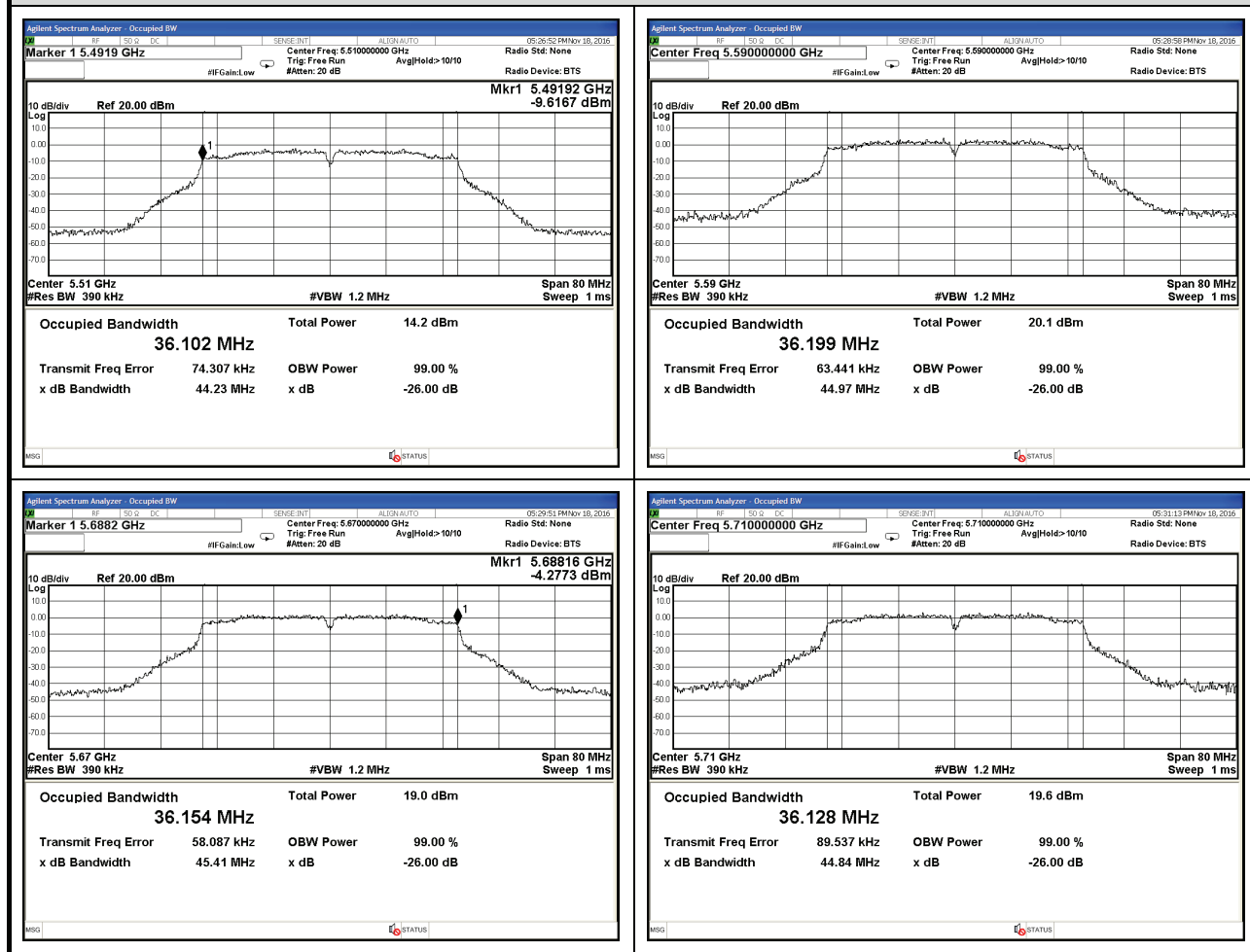


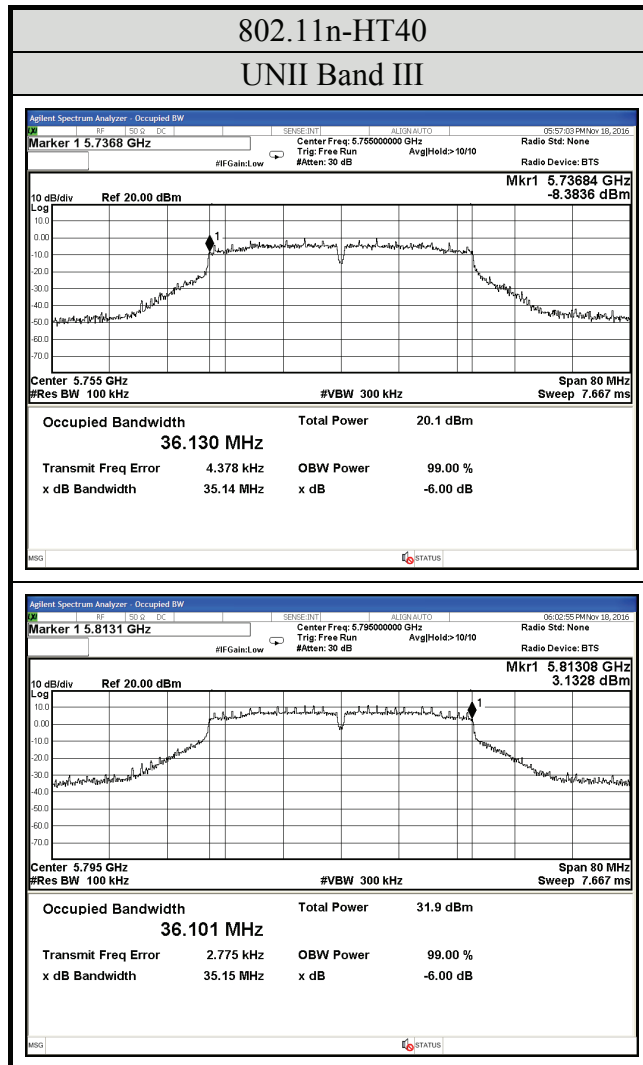
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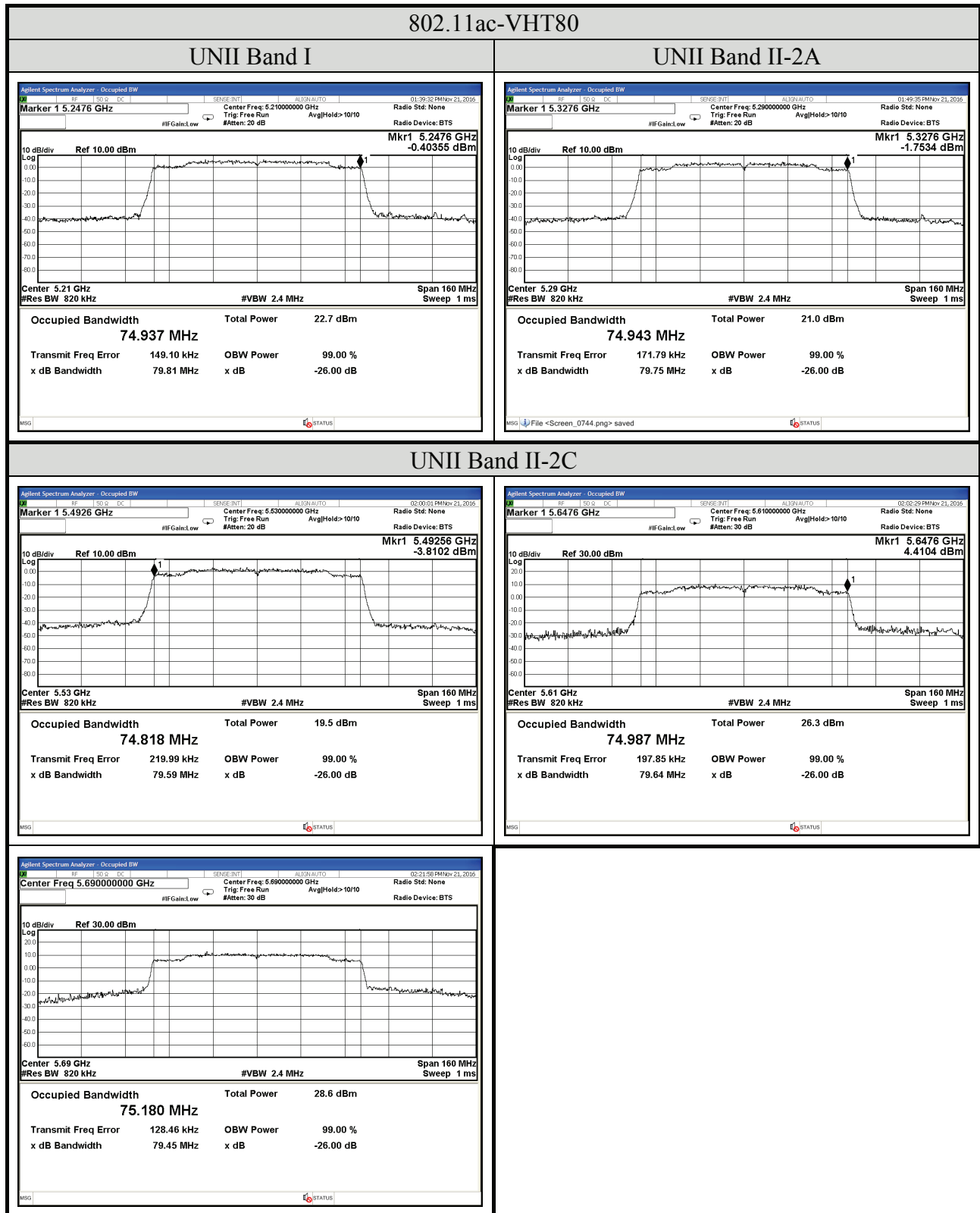


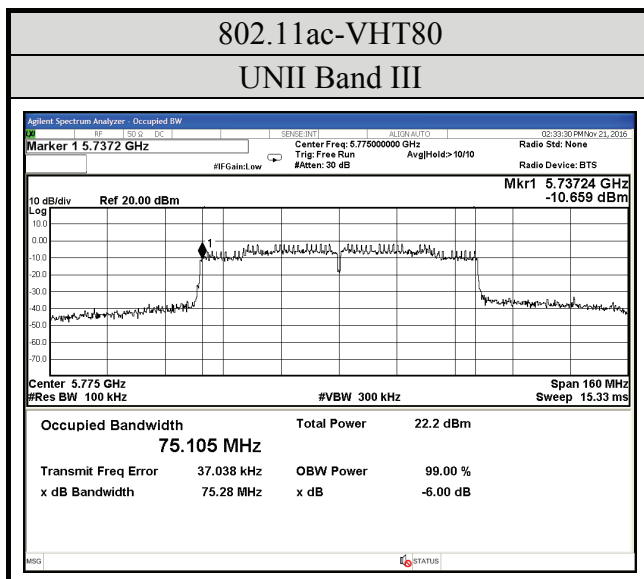
802.11n-HT40

UNII Band II-2C









A.2 MAXIMUM OUTPUT POWER MEASUREMENT

A.2.1 Emission Bandwidth Result

Test Date	2016/11/18 ~ 21	Temp./Hum.	25°C/55%
Test Voltage	AC 120V, 60Hz (via AC Adapter)		

Modulation Type	UNII Band	Centre Frequency (MHz)	Output Power	10log (1/X)	Maximum Output Power		Limit
			(dBm)		(dBm)	(W)	
802.11a	I	5180	16.97	0.00	16.97	0.049774	< 250 mW (24 dBm)
		5200	18.96		18.96	0.078705	
		5240	18.55		18.55	0.071614	
	II-2A	5260	19.04		19.04	0.080168	
		5300	19.01		19.01	0.079616	
		5320	15.48		15.48	0.035318	
	II-2C	5500	16.49		16.49	0.044566	
		5600	19.03		19.03	0.079983	
		5700	15.03		15.03	0.031842	
		5720	16.92		16.92	0.049204	
	III	5720	8.91		8.91	0.007780	< 1 W (30 dBm)
		5745	19.04		19.04	0.080168	
		5785	19.05		19.05	0.080353	
		5825	18.99		18.99	0.079250	

Note: The results have been included cable loss.

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Modulation Type	UNII Band	Centre Frequency (MHz)	Output Power		10log (1/X)	Maximum Output Power		Limit
			Chain 1	Chain 2		(dBm)	(W)	
802.11n-HT20	I	5180	12.33	11.49	0.13	14.96	0.031333	< 250 mW (24 dBm)
		5200	14.33	13.51		16.96	0.049659	
		5240	14.02	13.72		16.89	0.048865	
	II-2A	5260	14.19	13.35		16.81	0.047973	
		5300	13.85	14.03		16.96	0.049659	
		5320	11.58	11.47		14.56	0.028576	
	II-2C	5500	11.82	11.84		14.86	0.030620	
		5600	13.84	14.05		16.97	0.049774	
		5700	10.38	9.72		13.10	0.020417	
		5720	10.50	10.46		13.52	0.022491	
	III	5720	3.25	3.24		6.39	0.004355	< 1 W (30 dBm)
		5745	15.52	14.44		18.03	0.063533	
		5785	15.10	15.02		18.08	0.064269	
		5825	15.06	14.91		18.01	0.063241	

Note: The results have been included cable loss.

Modulation Type	UNII Band	Centre Frequency (MHz)	Output Power		10log (1/X)	Maximum Output Power		Limit
			Chain 1	Chain 2		(dBm)	(W)	
802.11n-HT40	I	5190	9.70	8.89	0.27	12.59	0.018155	< 250 mW (24 dBm))
		5230	13.84	13.52		16.96	0.049659	
	II-2A	5270	13.81	13.64		17.00	0.050119	
		5310	7.81	7.51		10.94	0.012417	
	II-2C	5510	7.82	7.65		11.01	0.012618	
		5590	13.62	13.73		16.95	0.049545	
		5670	12.24	12.35		15.57	0.036058	
		5710	13.06	13.15		16.38	0.043451	
	III	5710	-0.15	-0.39		3.01	0.002000	< 1 W (30 dBm)
		5755	14.55	14.82		17.97	0.062661	
		5795	14.63	14.86		18.03	0.063533	

Note: The results have been included cable loss.

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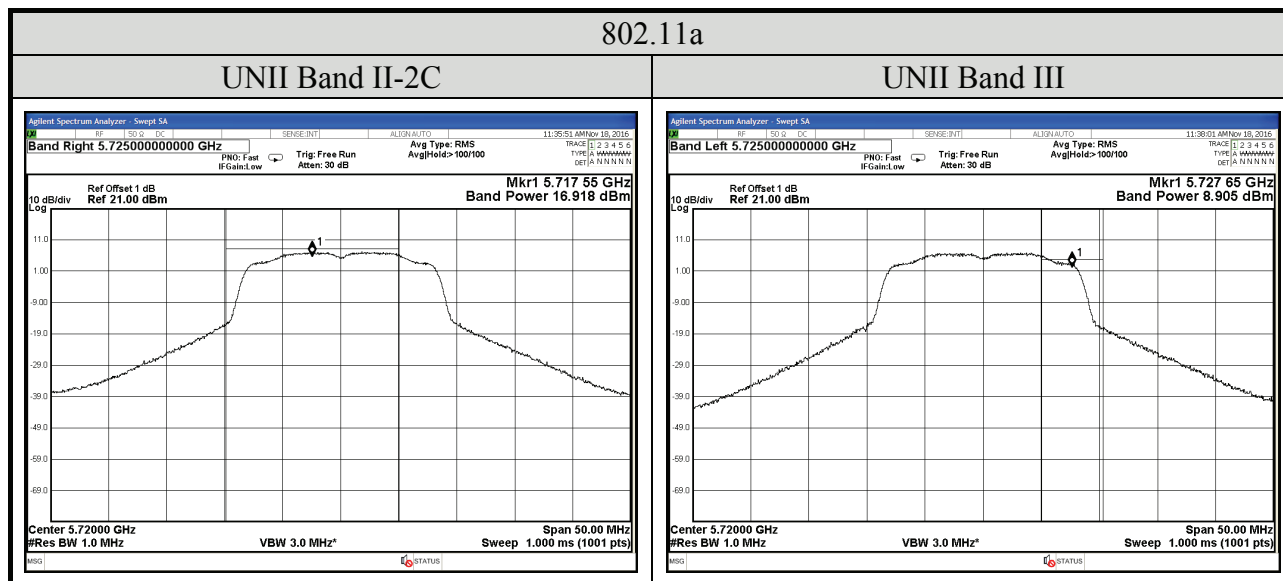
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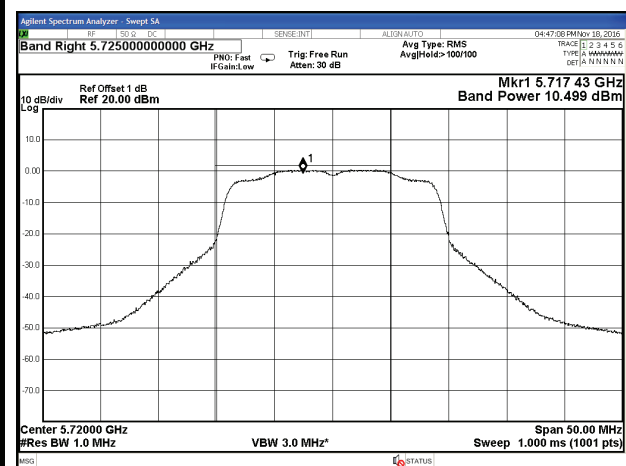
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			Chain 1	Chain 2		(dBm)	(W)	
802.11ac-VHT80	I	5210	6.73	6.18	1.80	10.90	0.012303	< 250 mW (24 dBm)
	II-2A	5290	5.15	4.84		9.43	0.008770	
	II-2C	5530	5.08	5.05		9.50	0.008913	
		5610	12.40	12.70		16.99	0.050003	
		5690	14.07	14.04		18.49	0.070632	
	III	5690	-2.87	-2.82		1.59	0.001442	< 1 W (30 dBm)
		5775	11.53	11.52		15.96	0.039446	

Note: The results have been included cable loss.

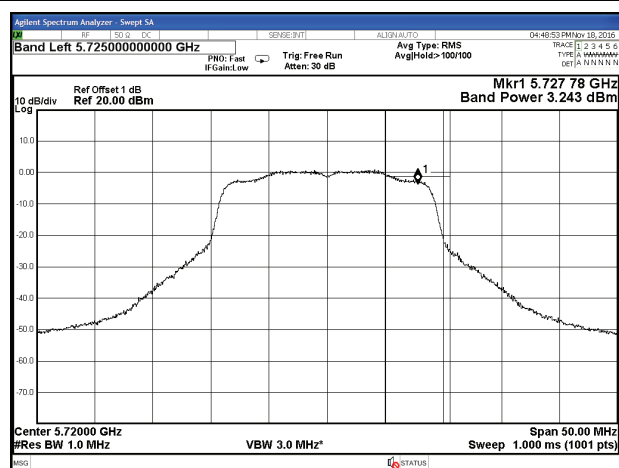
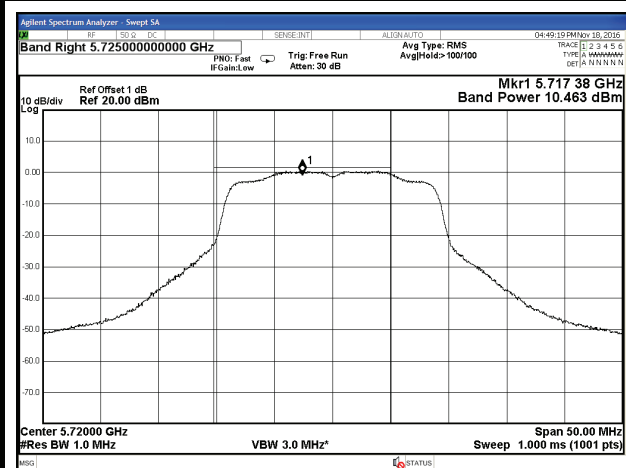
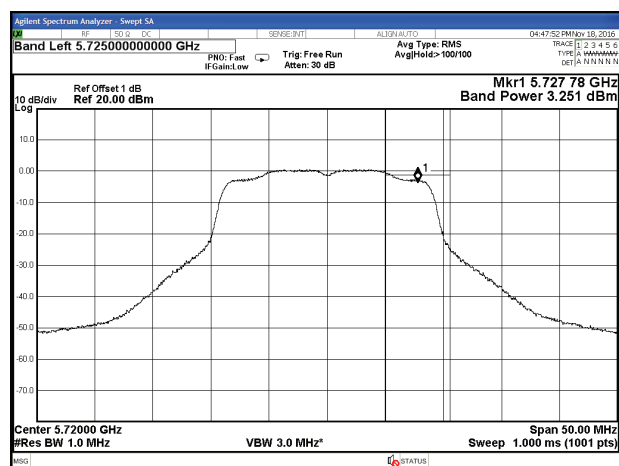


802.11n-HT20

UNII Band II-2C

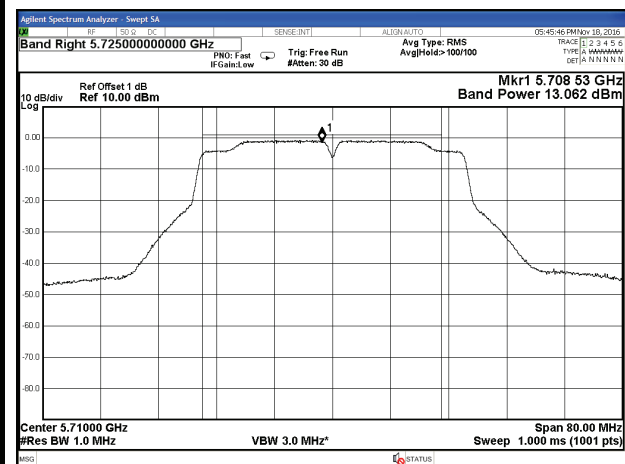


UNII Band III

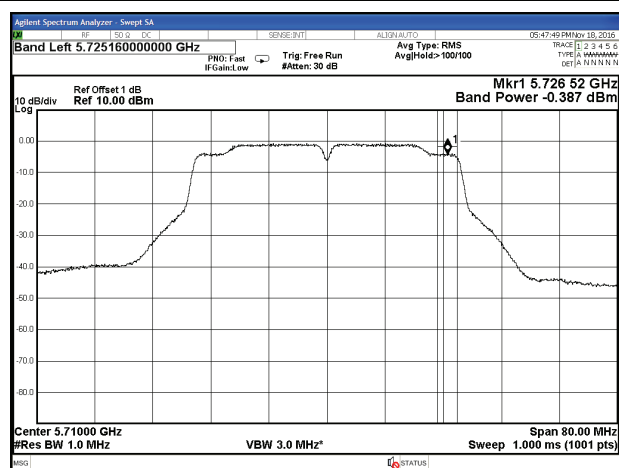
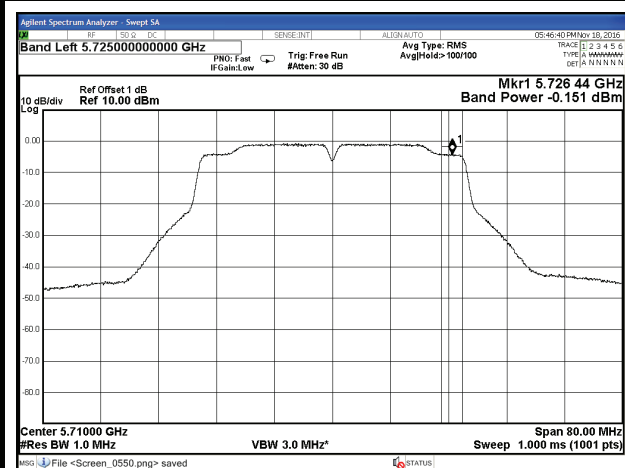
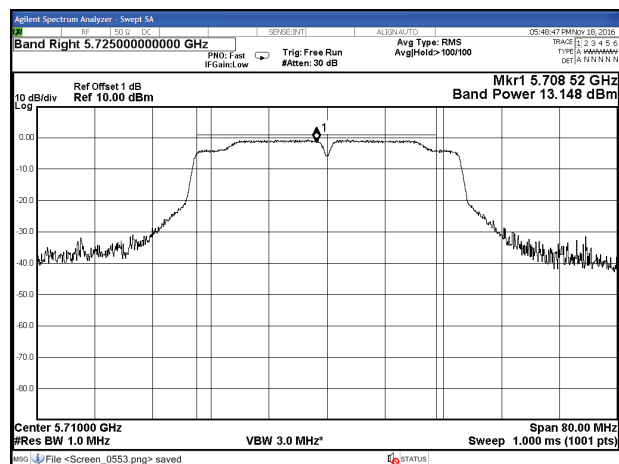


802.11n-HT40

UNII Band II-2C

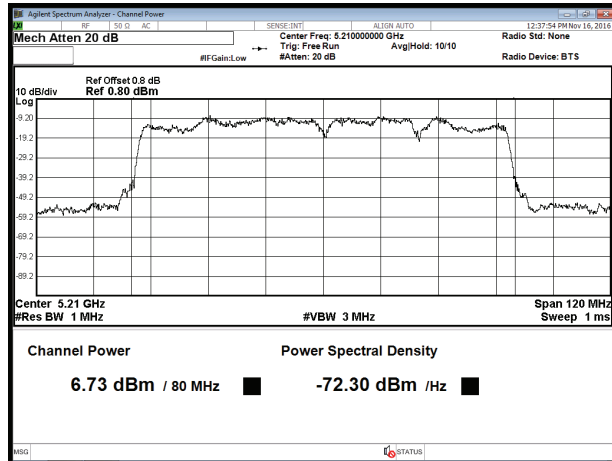


UNII Band III

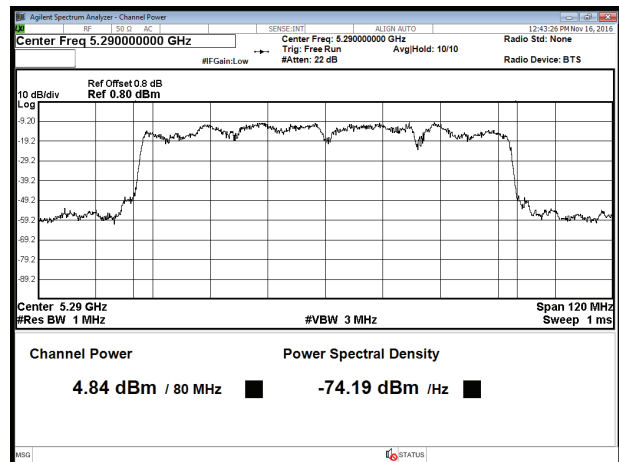
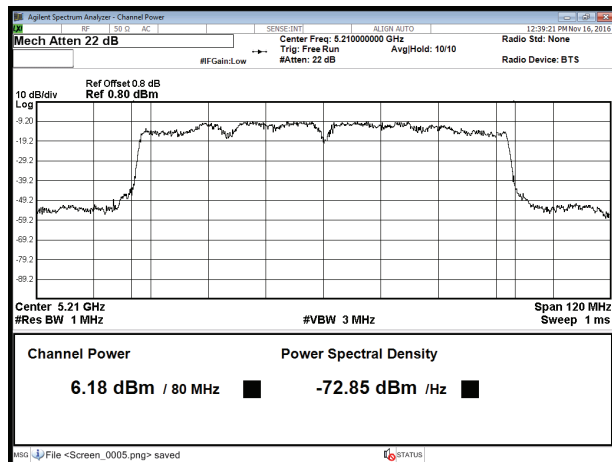
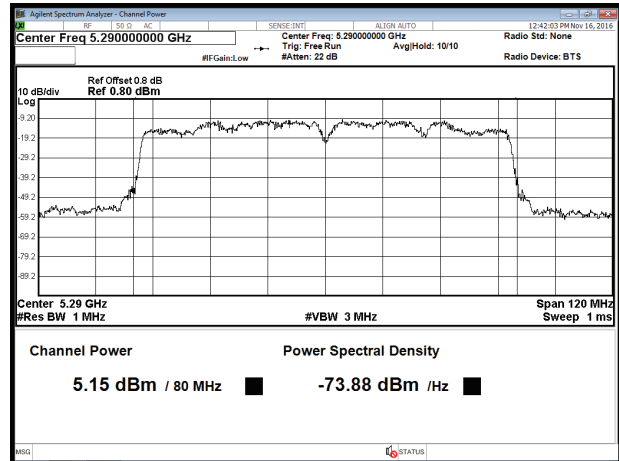


802.11ac-VHT80

UNII Band I

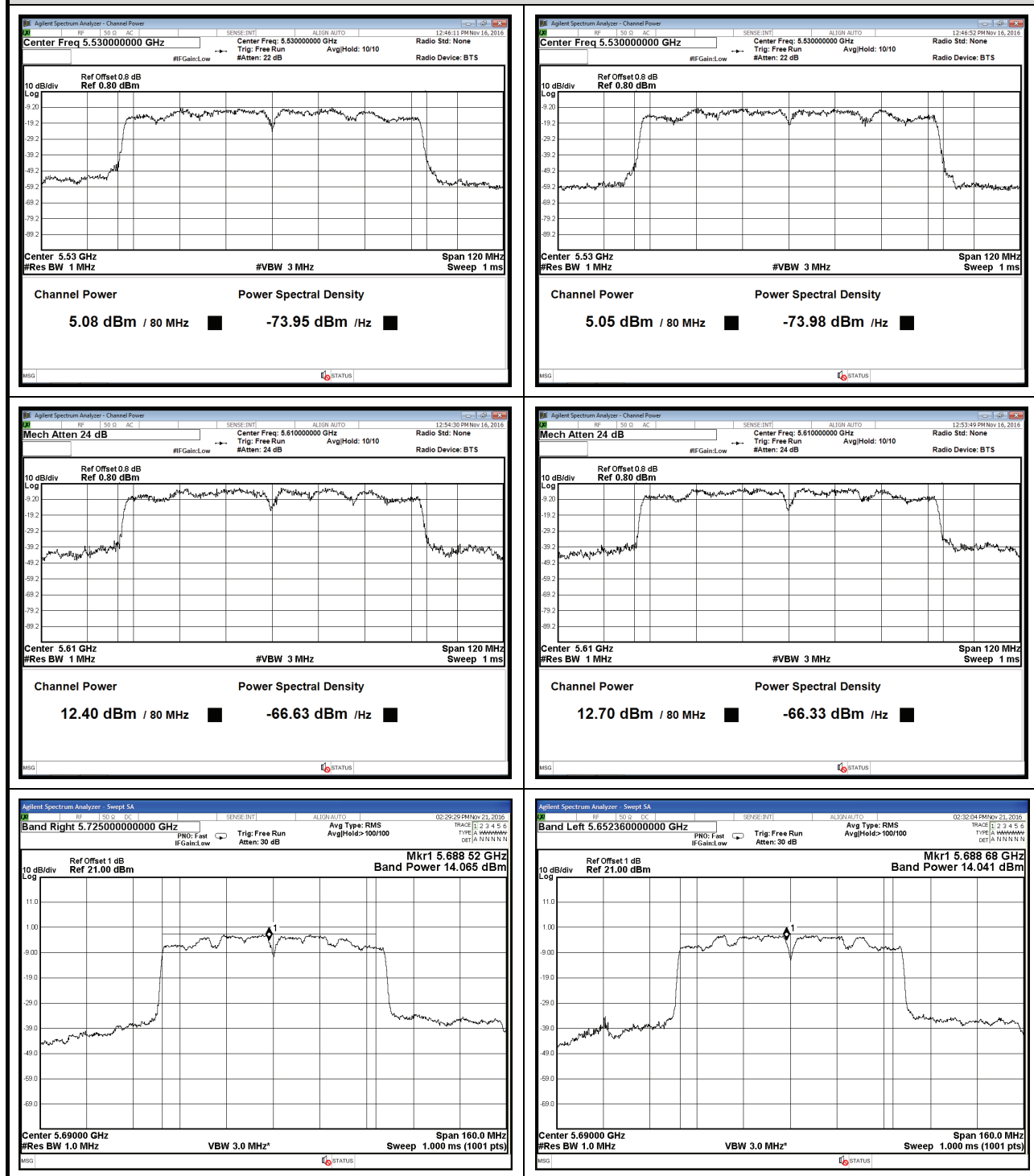


UNII Band II-2A



802.11ac-VHT80

UNII Band II-2C



802.11ac-VHT80

UNII Band III

