

A.6 POWER SPECTRAL DENSITY

Test Date	2018/10/24 ~ 30	Temp./Hum.	25°C/55%
Cable Loss	Band I: 2.92dB Band II-2A/2C: 3.37dB Band III: 3.91dB	Test Voltage	AC 120V, 60Hz (Via AC Adapter)
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			802.11a: 0 ; 802.11ac/n: 3

A.6.1 Power Spectral Density Result

Mode	UNII Band	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11a	I	5180	7.337	11 dBm/MHz
		5200	10.462	
		5240	10.385	
	II-2A	5260	10.006	
		5300	8.720	
		5320	5.737	
	II-2C	5500	5.619	
		5580	9.978	
		5700	7.156	
	III ^{Note2}	5745	7.800	30dBm/500 kHz
		5785	7.952	
		5825	6.862	

Note 1: All results have been included cable loss and Simultaneous Factor and correct duty factor.

Note 2: BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.

Mode	UNII Band	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11n-HT20	I	5180	7.878	11 dBm/MHz
		5200	10.011	
		5240	10.210	
	II-2A	5260	7.976	
		5300	9.969	
		5320	7.007	
	II-2C	5500	6.370	
		5580	9.913	
		5700	9.039	
		5720	10.415	
	III ^{Note2}	5745	10.667	30dBm/500 kHz
		5785	10.285	
		5825	10.703	
802.11n-HT40	I	5190	1.821	11 dBm/MHz
		5230	6.372	
	II-2A	5270	7.356	
		5310	3.343	
	II-2C	5510	1.183	
		5550	5.561	
		5670	7.182	
		5710	8.571	
	III ^{Note2}	5755	4.709	30dBm/500 kHz
		5795	7.130	

Note 1: All results have been included cable loss and Simultaneous Factor and correct duty factor.

Note 2: BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.

Modulation Type	UNII Band	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11ac-VHT80	I	5210	-3.200	11 dBm/MHz
	II-2A	5290	-1.621	
	II-2C	5530	-0.870	
		5610	3.972	
		5690	5.812	
	III	5775	-0.920	30dBm/500 kHz
802.11ac-VHT160	I	5250	6.56	11 dBm/MHz
	II-2C	5570	-5.204	

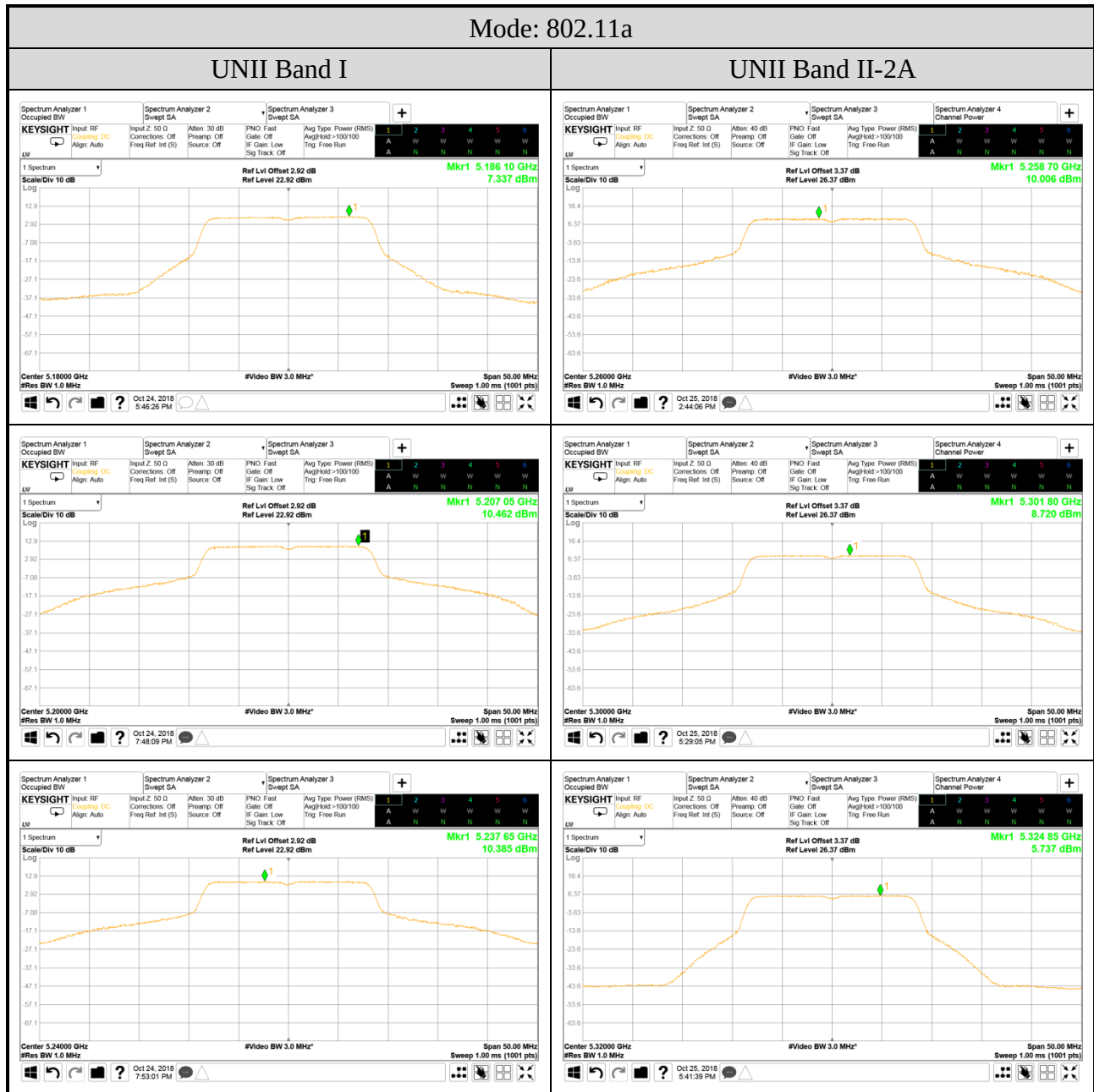
Note 1: All results have been included cable loss and Simultaneous Factor.

Note 2: BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.

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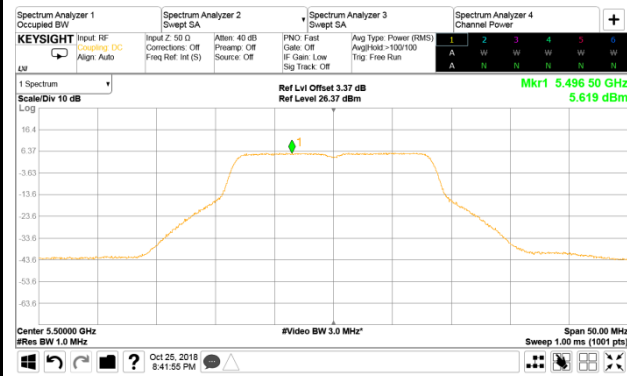
Tel: +886 2 26099301
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A.6.2 Measurement Plots

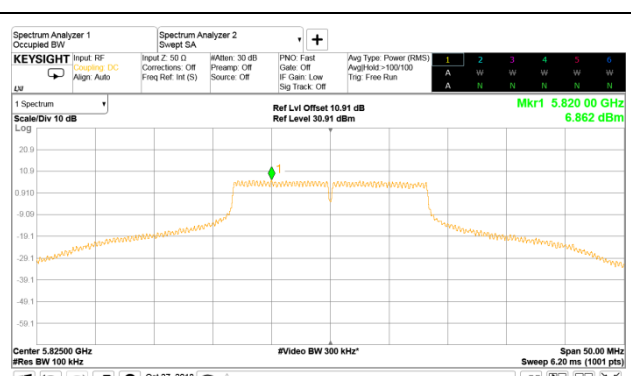
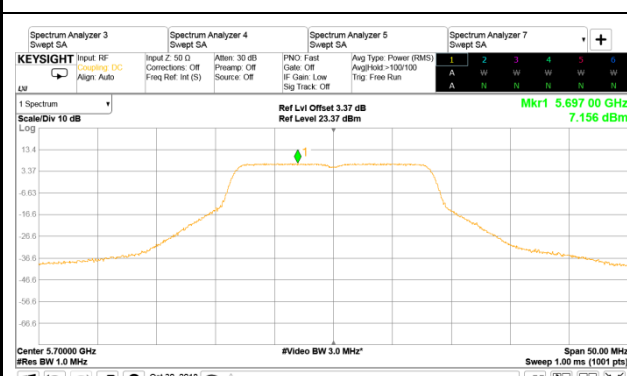
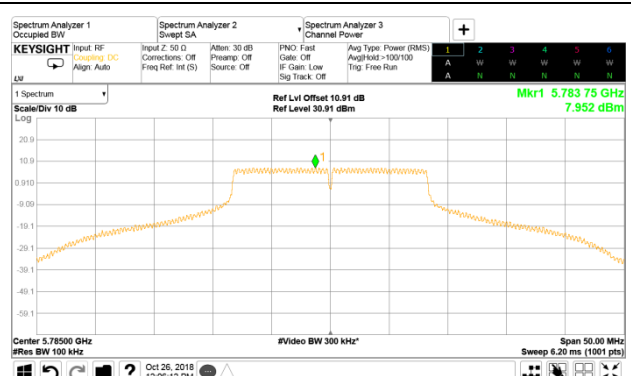
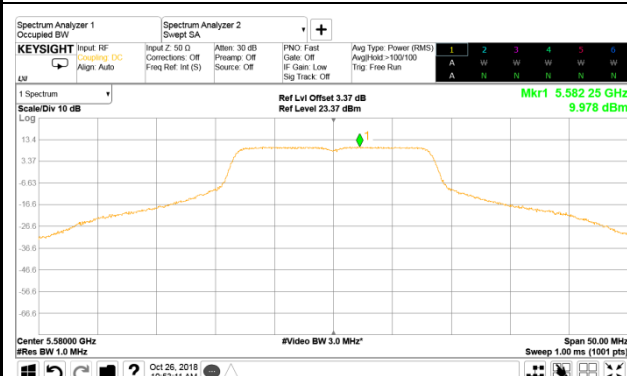
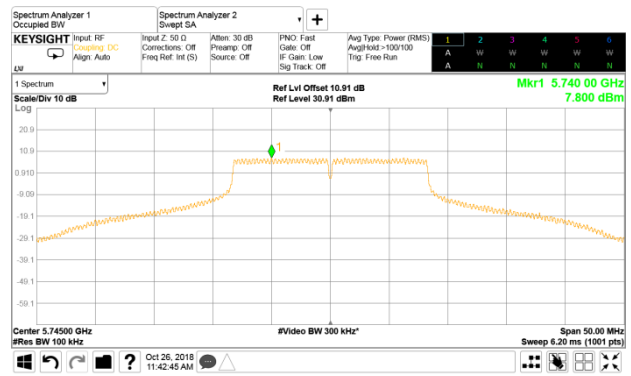


Mode: 802.11a

UNII Band II-2C

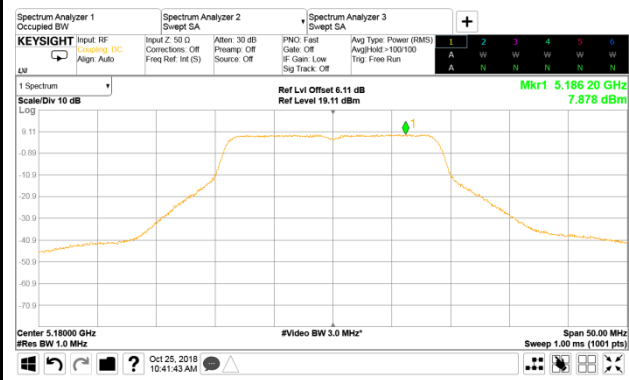


UNII Band III

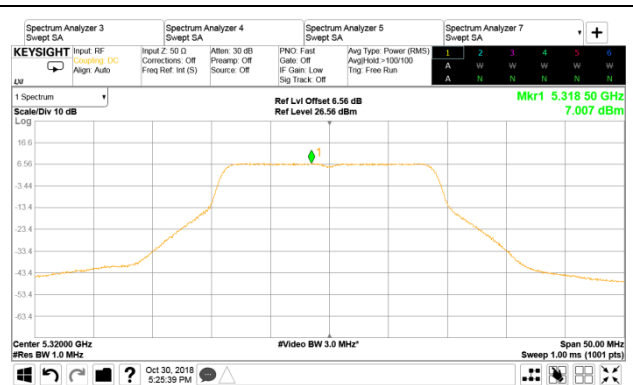
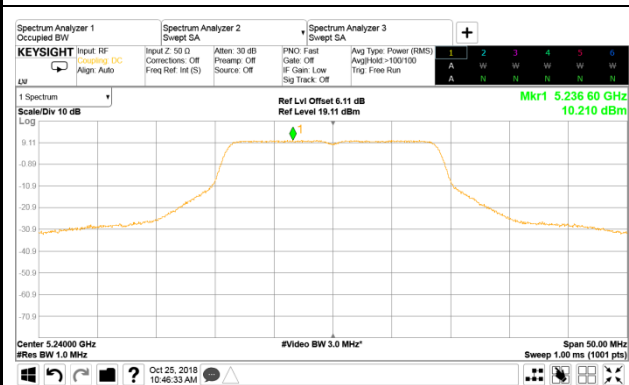
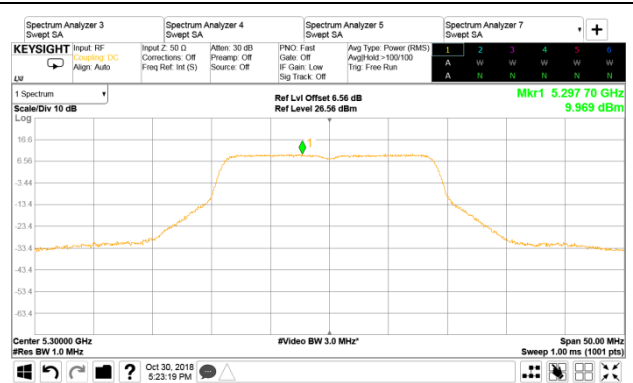
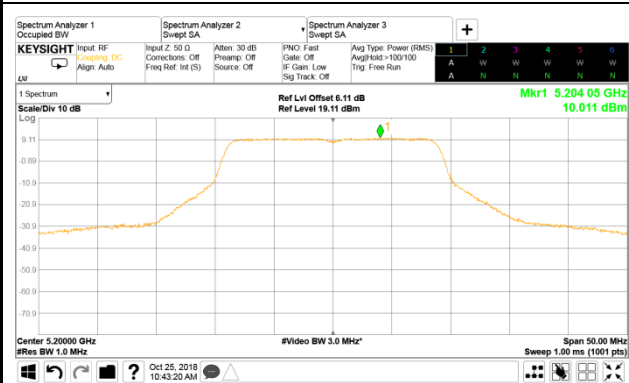
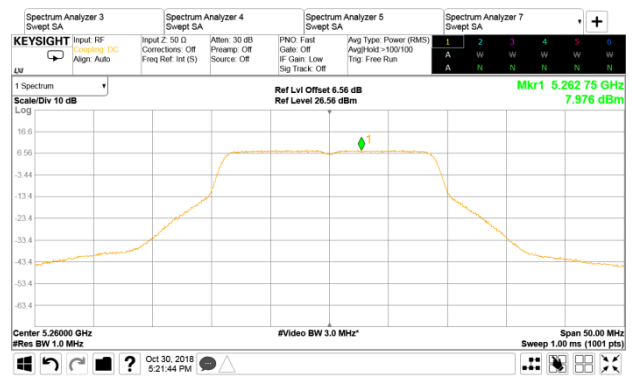


Mode: 802.11n-HT20

UNII Band I

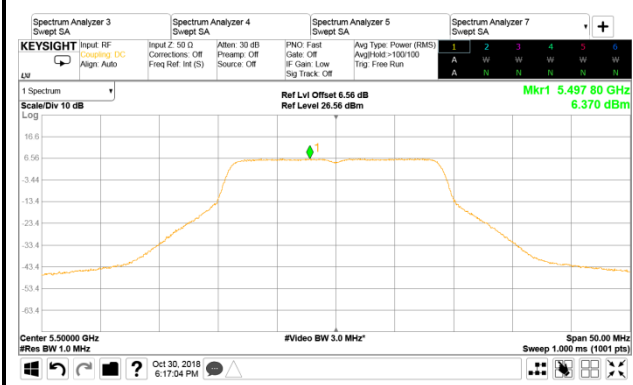


UNII Band II-2A

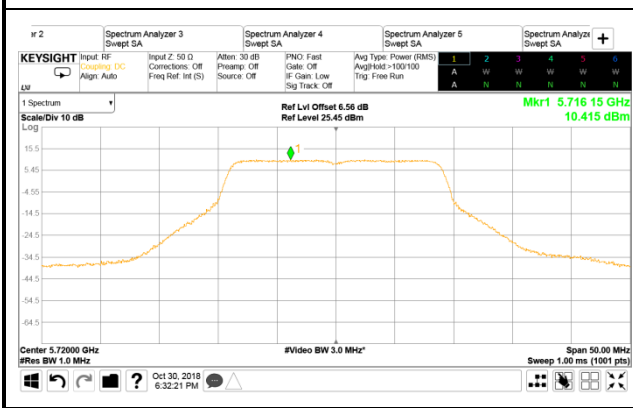
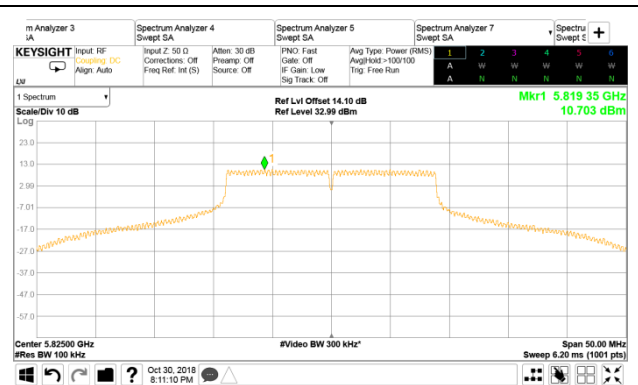
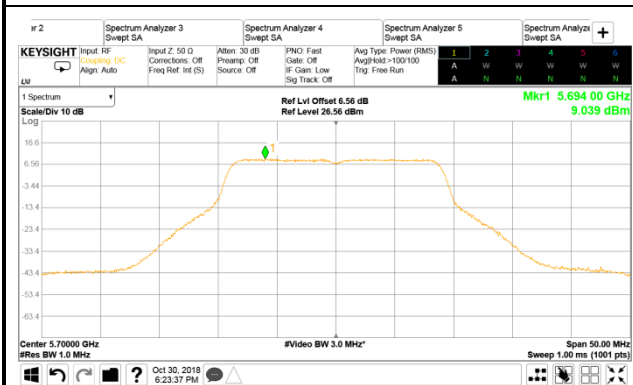
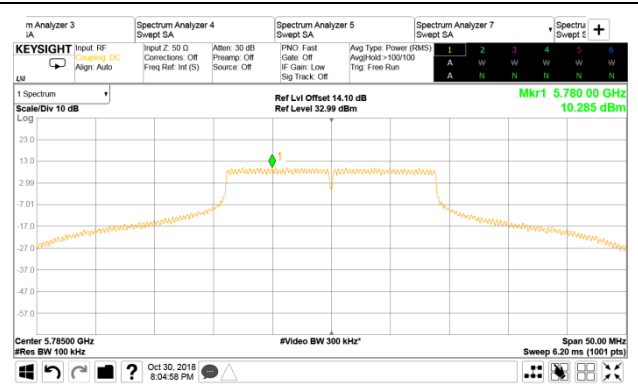
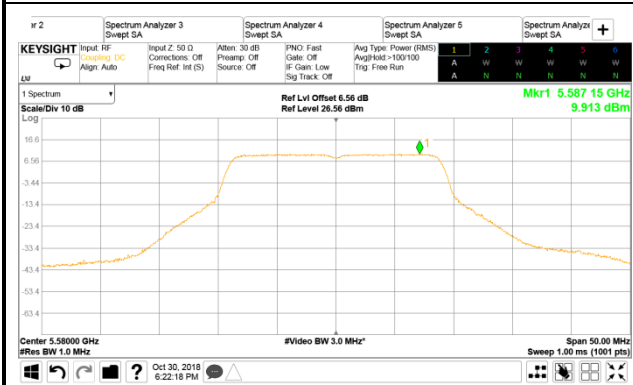
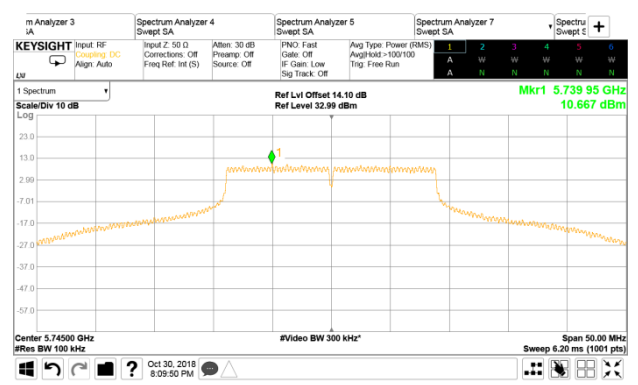


Mode: 802.11n-HT20

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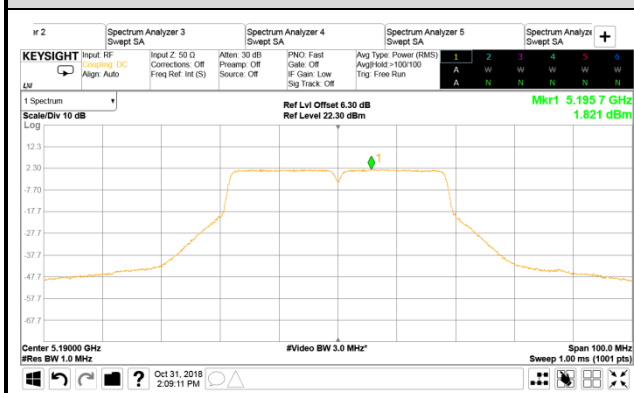


UNII Band III

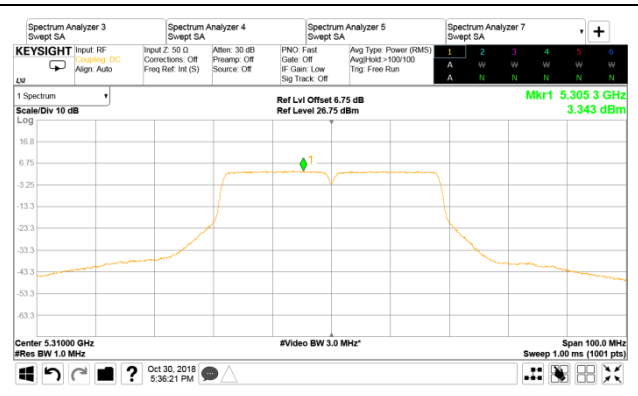
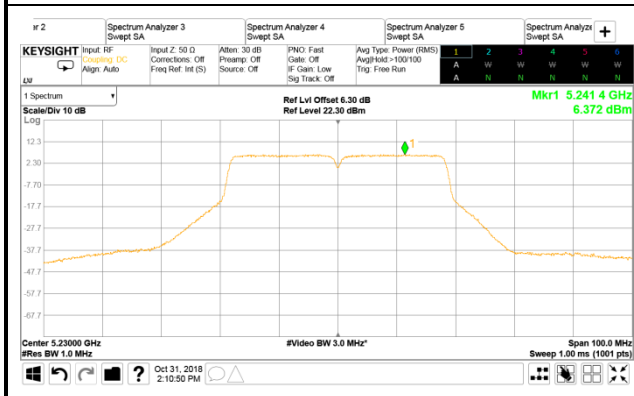
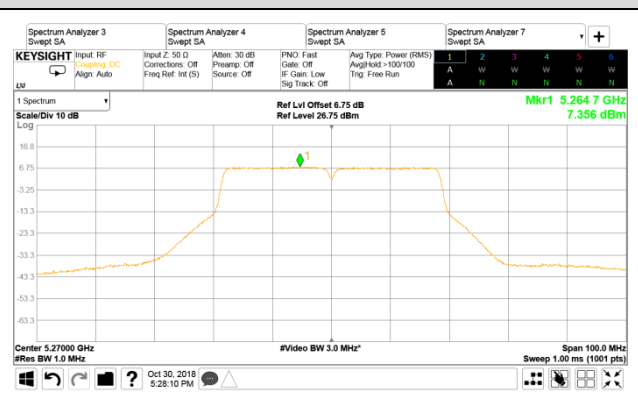


Mode: 802.11n-HT40

UNII Band I

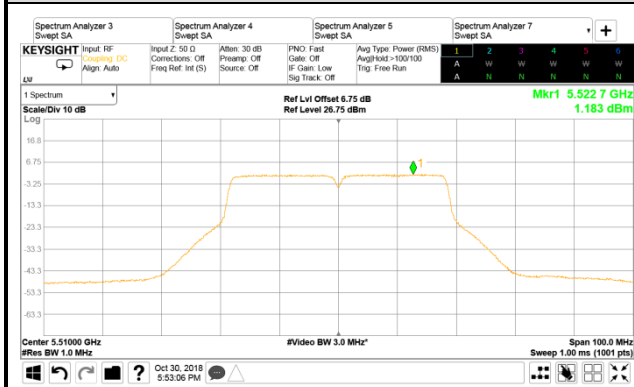


UNII Band II-2A

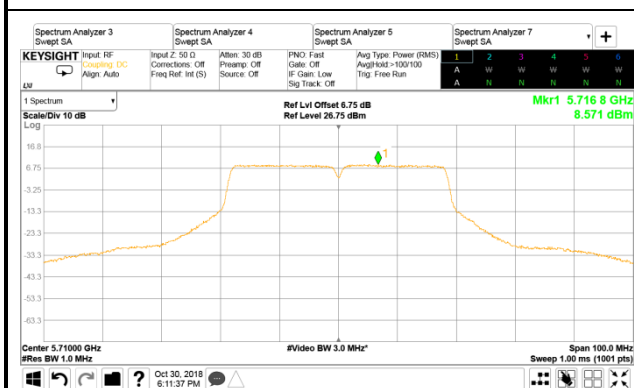
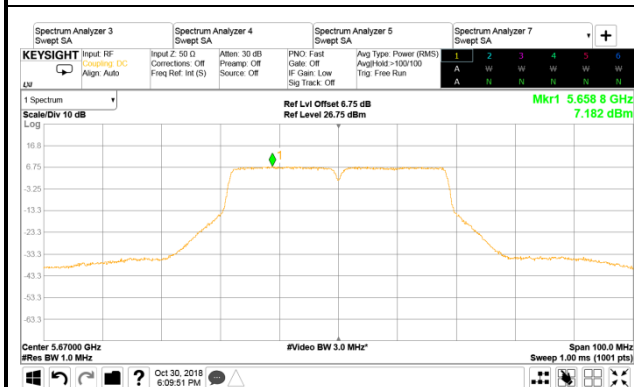
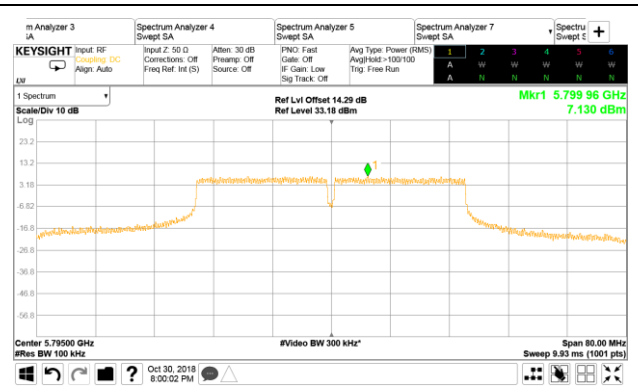
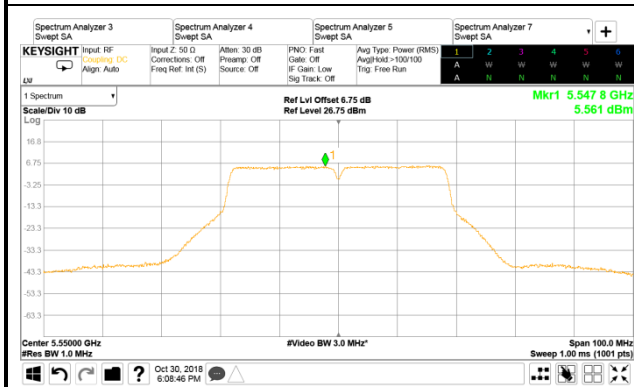
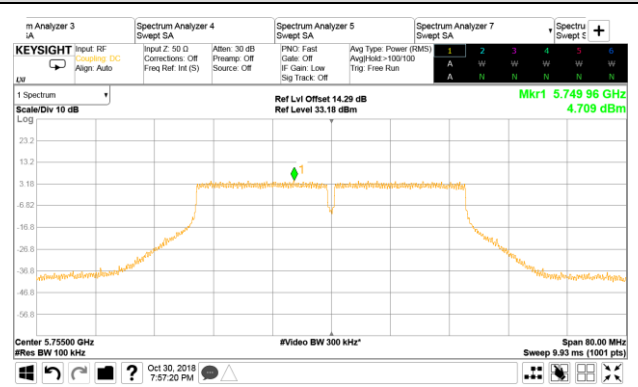


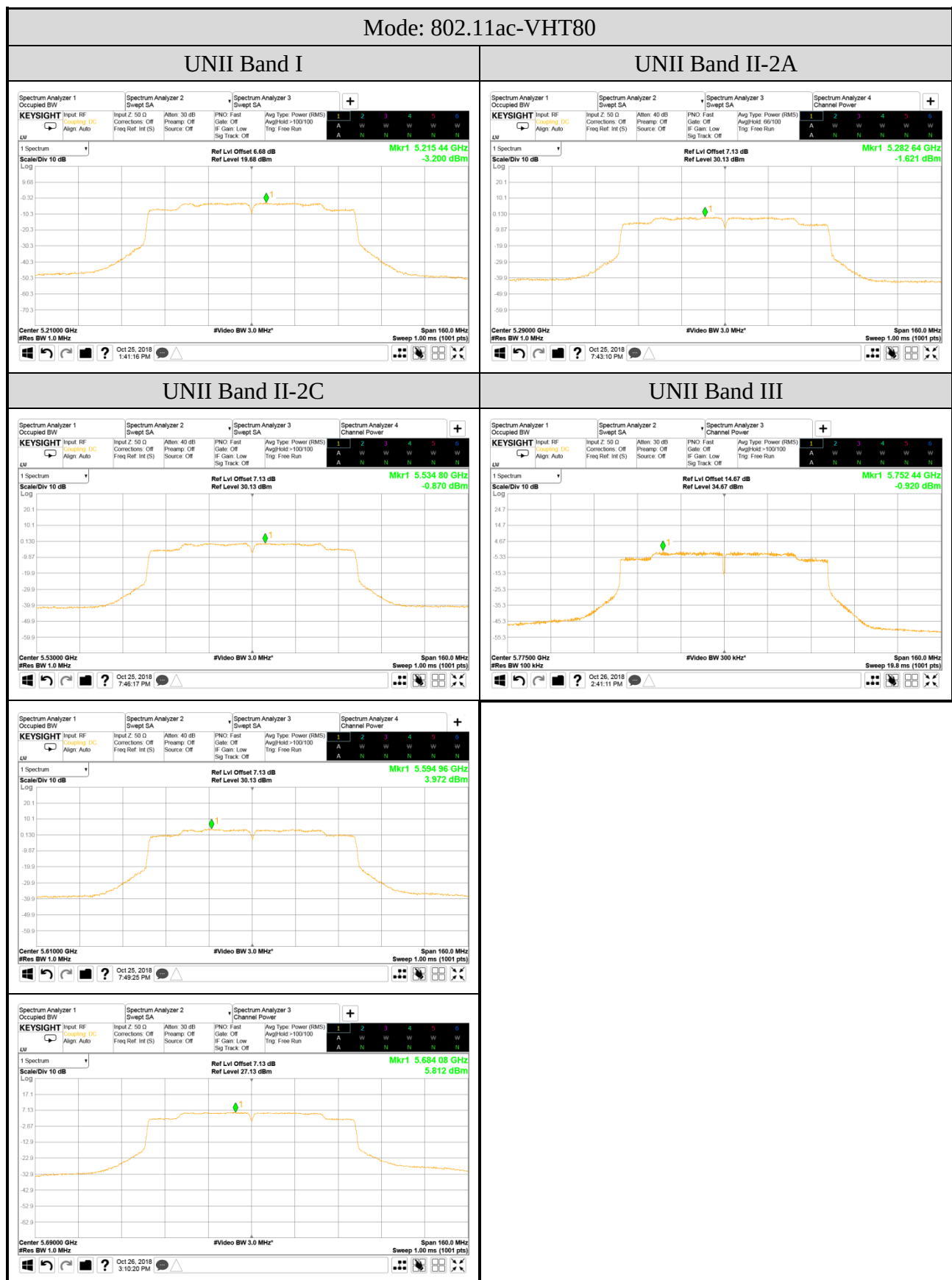
Mode: 802.11n-HT40

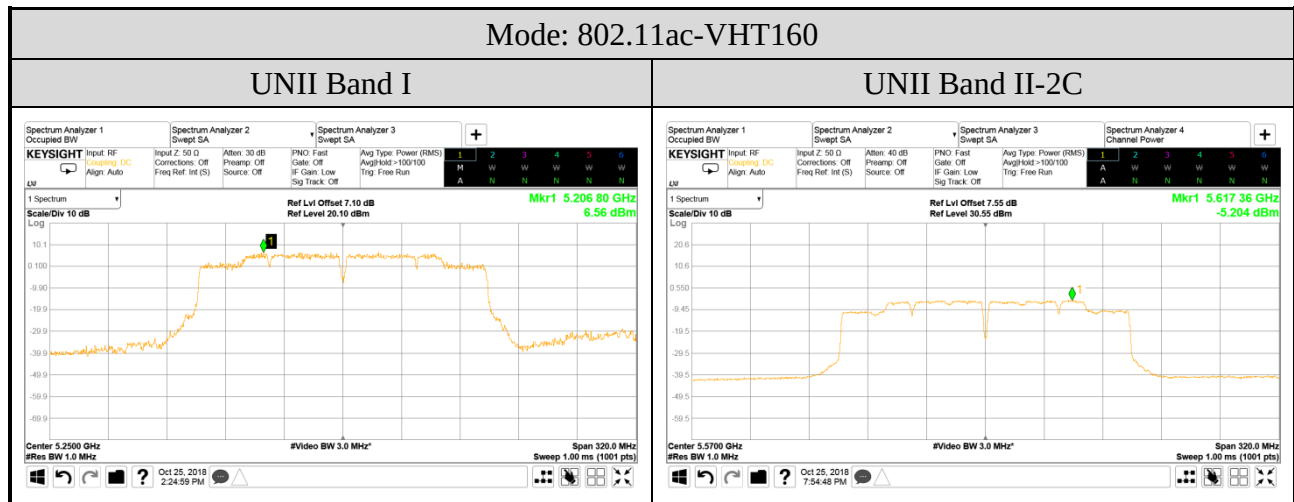
UNII Band II-2C



UNII Band III







A.7 FREQUENCY STABILITY

Test Date	2018/11/01	Temp./Hum.	25°C/55%
Cable Loss	2.92dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)

A.7.1 Frequency stability Result

Temperature (°C)	Voltage (Vac)	Centre Frequency (MHz)	Measurement Value (MHz)	Frequency Stability (ppm)
25	120	5180	5180.004	0.772
-30	102		5179.964	-6.950
	138		5179.972	-5.405
-20	102		5179.976	-4.633
	138		5179.982	-3.475
-10	102		5179.991	-1.737
	138		5179.996	-0.772
0	102		5180.002	0.386
	138		5180.009	1.737
10	102		5180.008	1.544
	138		5180.019	3.668
20	102		5180.014	2.703
	138		5180.025	4.826
30	102		5180.021	4.054
	138		5180.031	5.985
40	102		5180.034	6.564
	138		5180.038	7.336
50	102		5180.041	7.915
	138		5180.046	8.880



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APPENDIX B

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APPDNDIX B

TEST PHOTOGRAPHS

(Model: 17Z990)