Audix Technology Corp.
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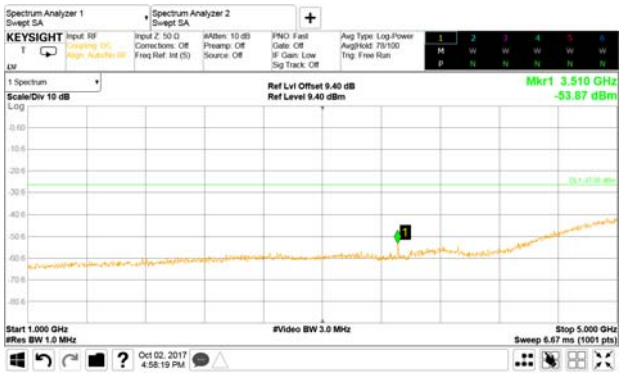
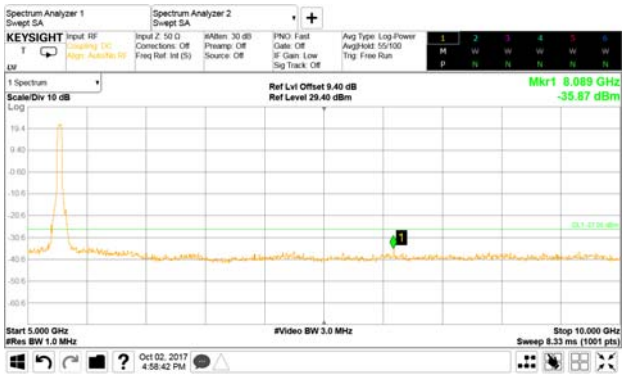
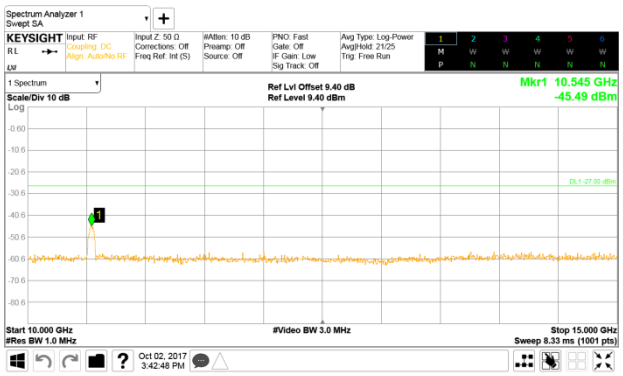
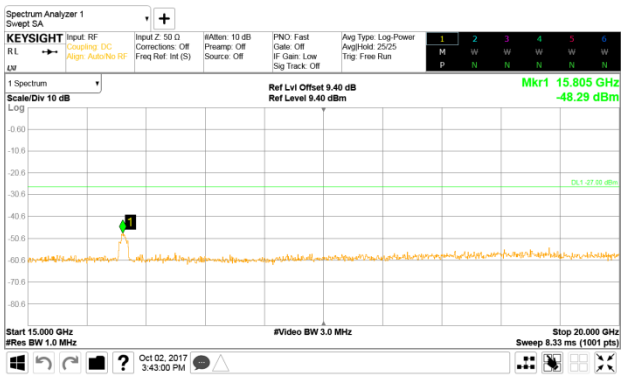
Test Date	2017/10/02	Temp./Hum.	24℃/53%
Mode	802.11n-HT40	UNII Band	II-2A
		Frequency	TX 5270MHz
Cable Loss	1.4dB	Test Voltage	DC 3.3V (through jig via Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		0	

1GHz – 5GHz	5GHz – 10GHz
	
10GHz – 15GHz	**15GHz – 20GHz**
	

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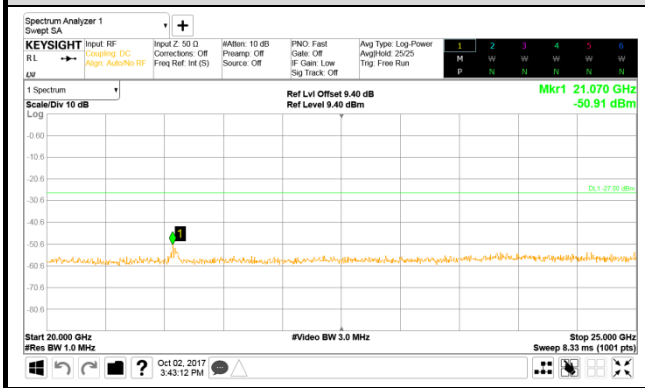
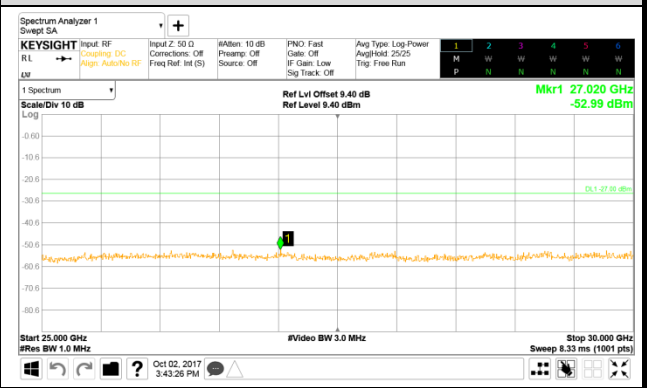
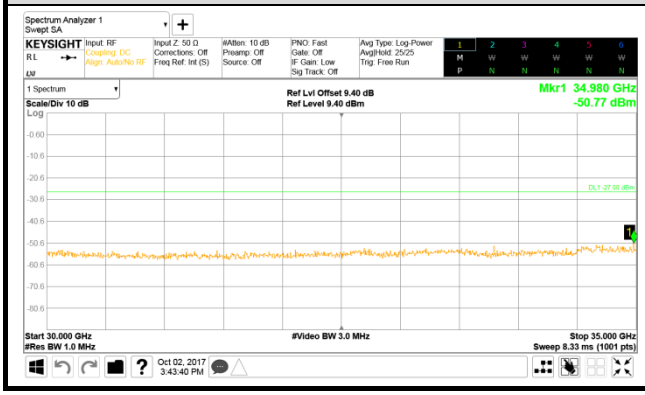
20GHz – 25GHz



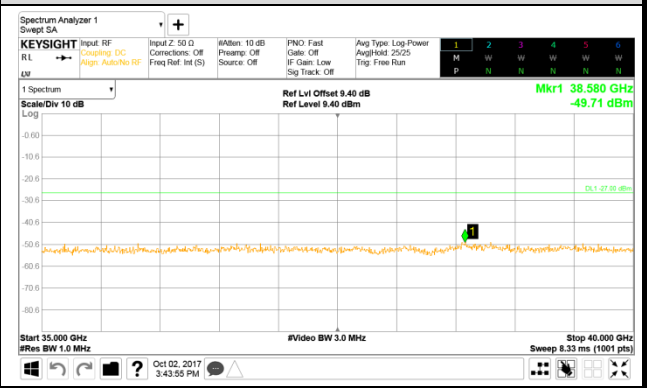
25GHz – 30GHz



30GHz – 35GHz



35GHz – 40GHz



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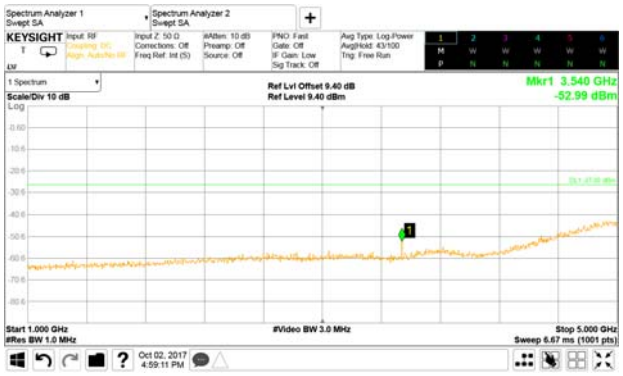
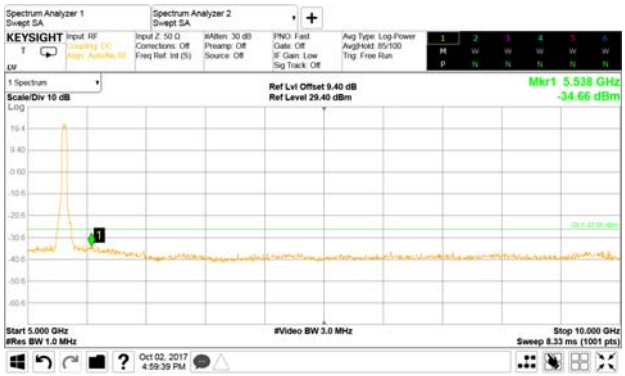
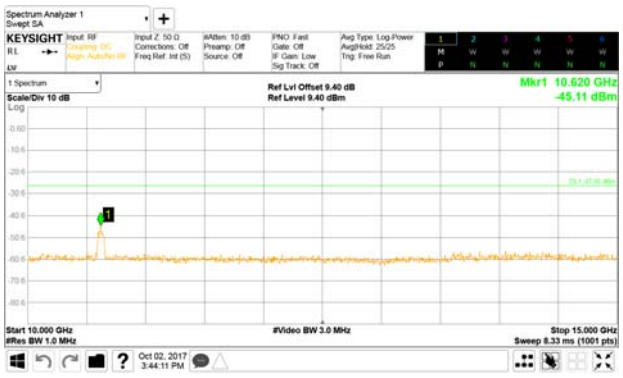
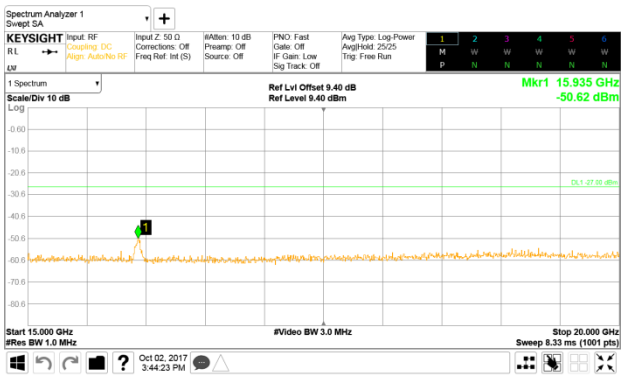
Test Date	2017/10/02	Temp./Hum.	24℃/53%
Mode	802.11n-HT40	UNII Band	II-2A
		Frequency	TX 5310MHz
Cable Loss	1.4dB	Test Voltage	DC 3.3V (through jig via Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		0	

1GHz – 5GHz	5GHz – 10GHz
	
10GHz – 15GHz	15GHz – 20GHz
	

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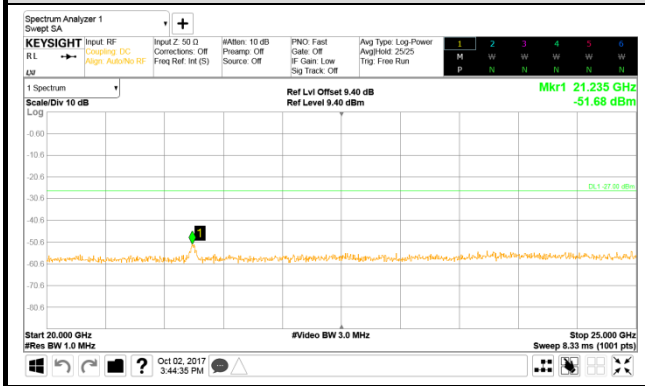
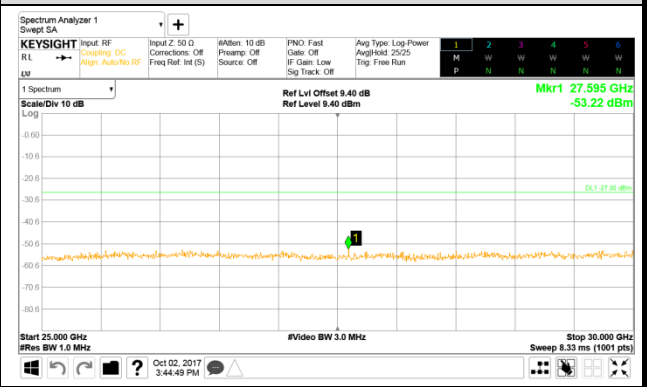
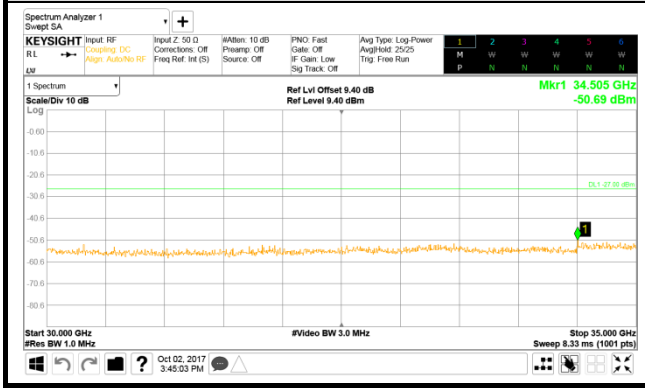
20GHz – 25GHz



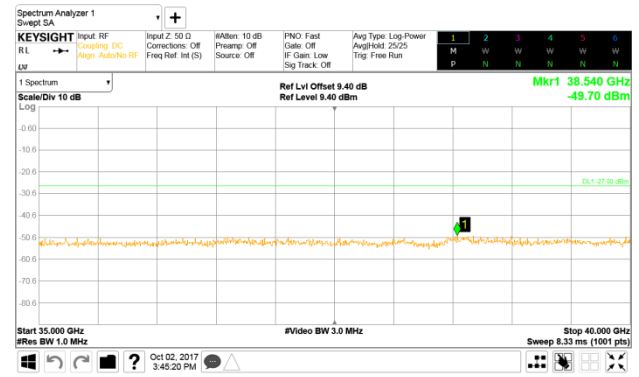
25GHz – 30GHz



30GHz – 35GHz



35GHz – 40GHz



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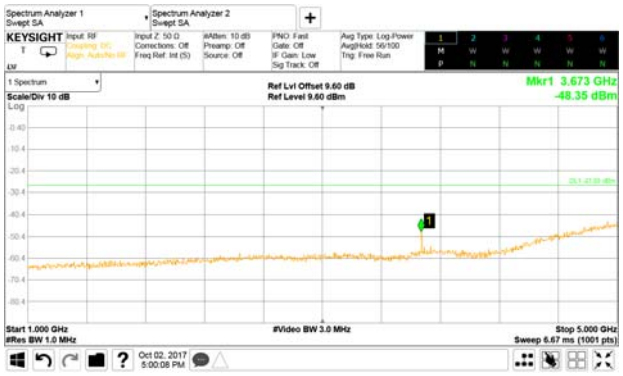
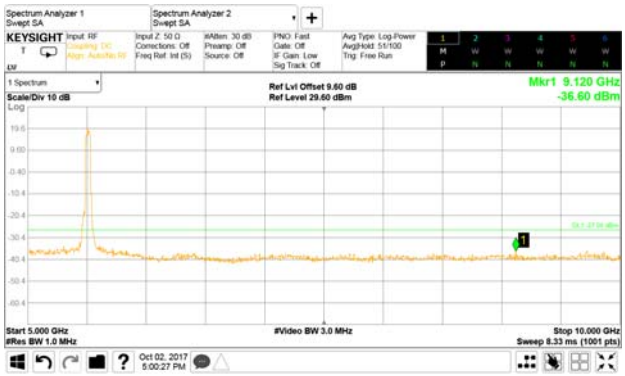
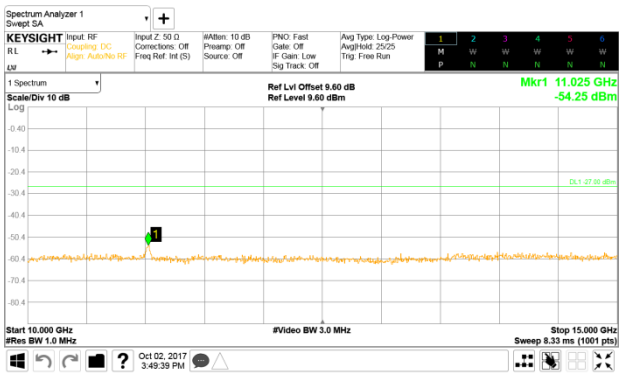
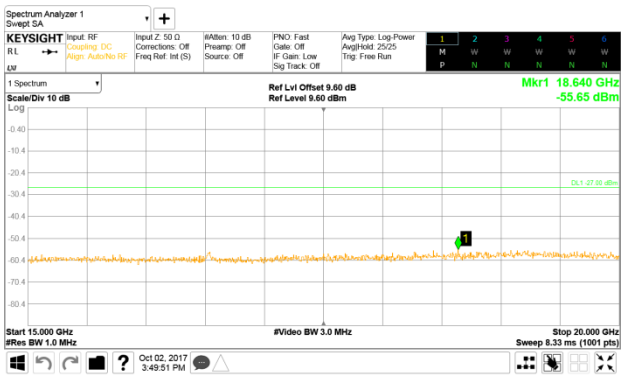
Test Date	2017/10/02	Temp./Hum.	24℃/53%
Mode	802.11n-HT40	UNII Band	II-2C
		Frequency	TX 5510MHz
Cable Loss	1.6dB	Test Voltage	DC 3.3V (through jig via Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		3	

1GHz – 5GHz	5GHz – 10GHz
	
10GHz – 15GHz	**15GHz – 20GHz**
	

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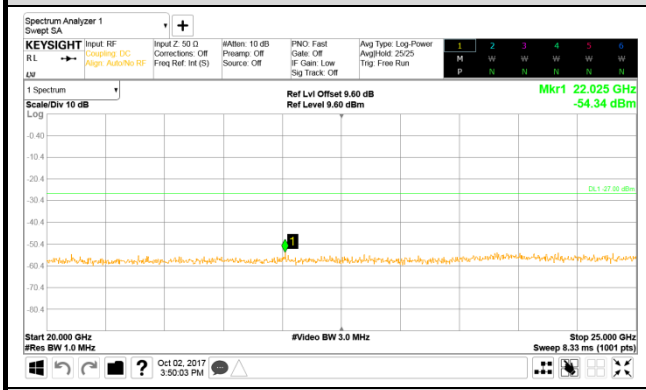
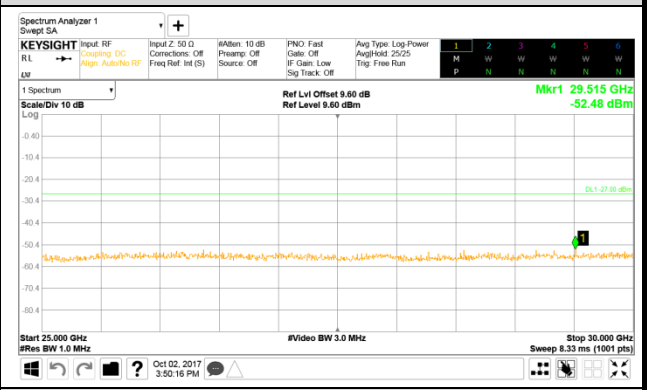
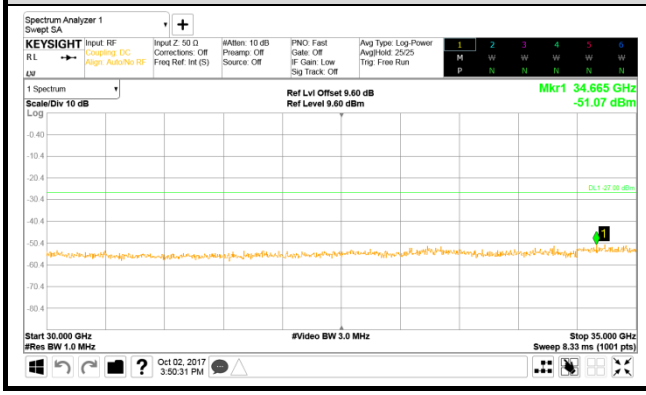
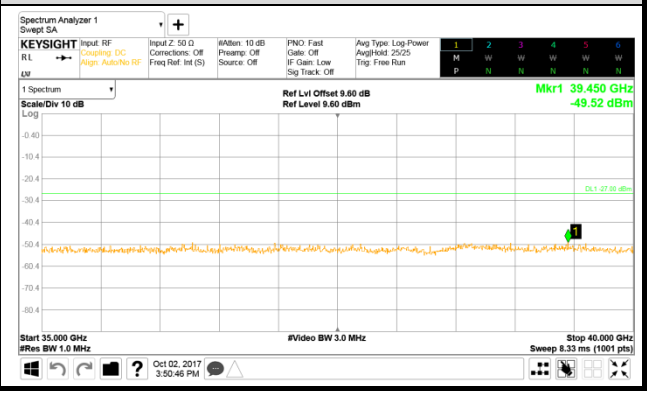
20GHz – 25GHz	25GHz – 30GHz
	
30GHz – 35GHz	**35GHz – 40GHz**
	

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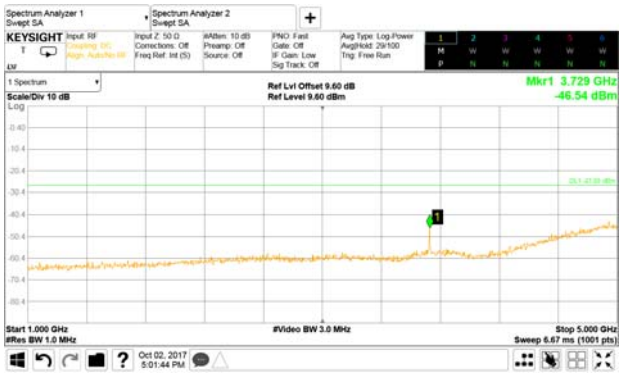
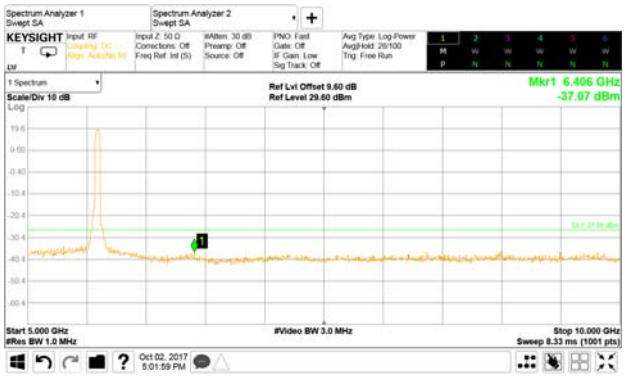
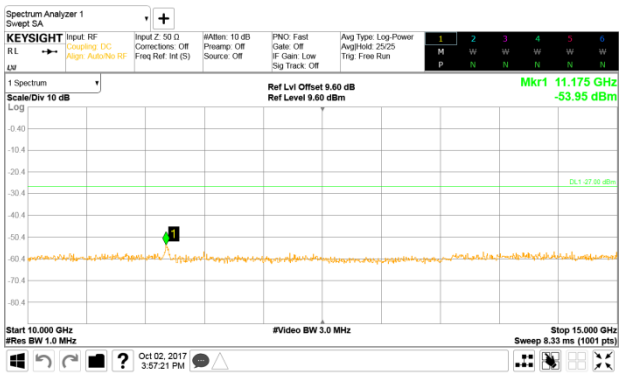
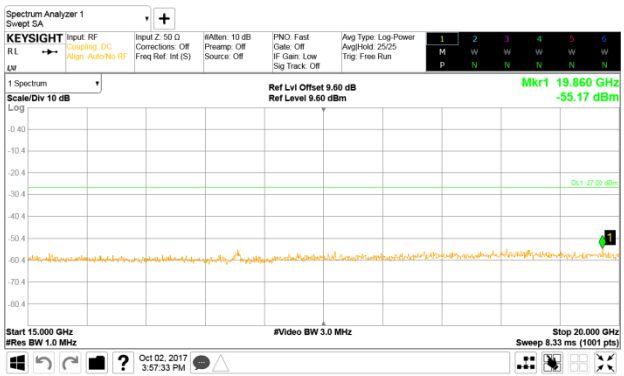
Test Date	2017/10/02	Temp./Hum.	24℃/53%
Mode	802.11n-HT40	UNII Band	II-2C
		Frequency	TX 5590MHz
Cable Loss	1.6dB	Test Voltage	DC 3.3V (through jig via Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		0	

1GHz – 5GHz	5GHz – 10GHz
	
10GHz – 15GHz	**15GHz – 20GHz**
	

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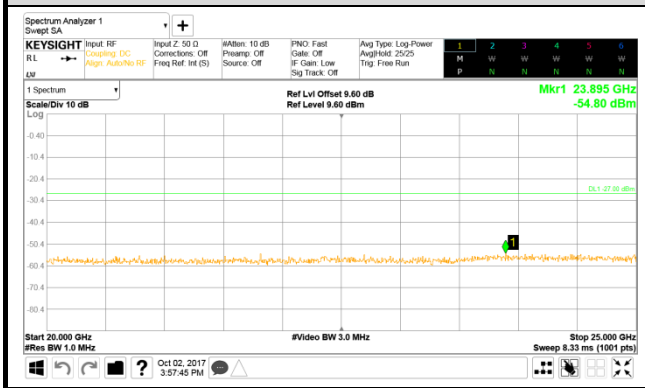
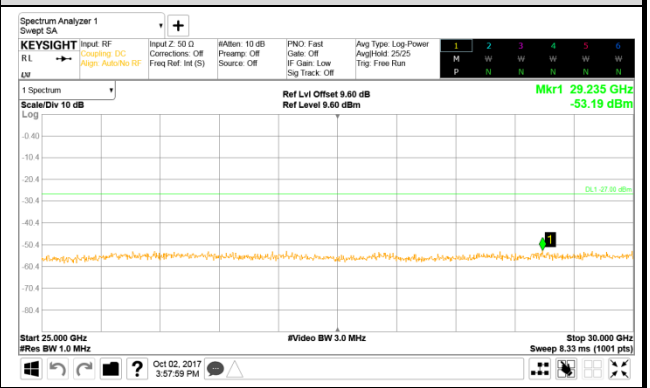
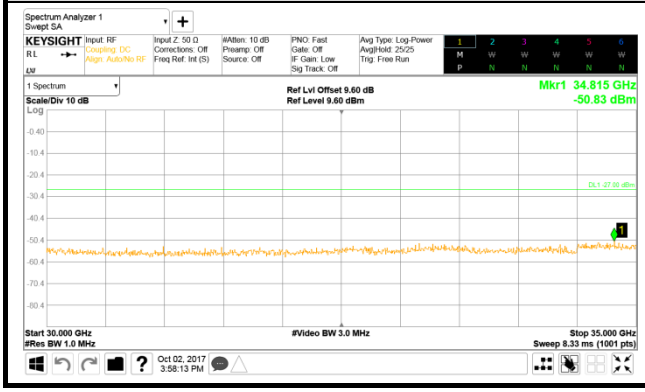
20GHz – 25GHz



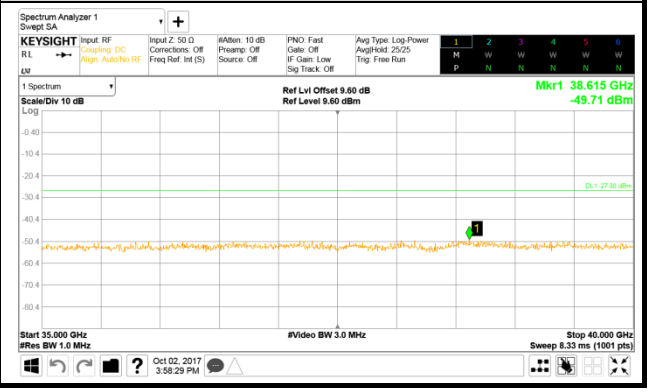
25GHz – 30GHz



30GHz – 35GHz



35GHz – 40GHz



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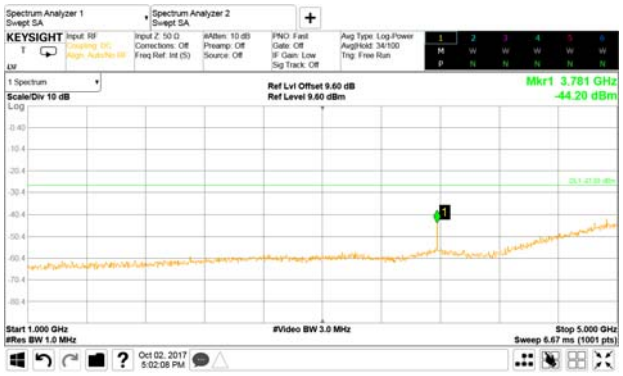
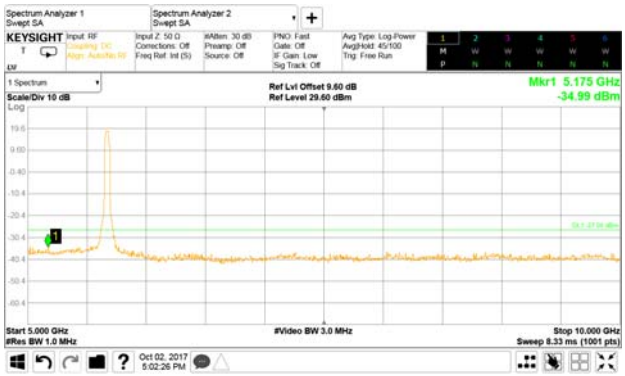
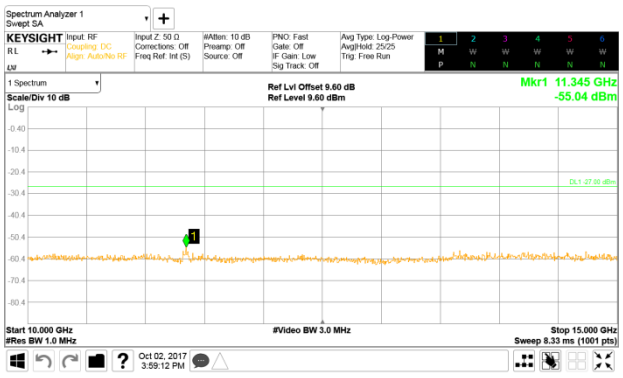
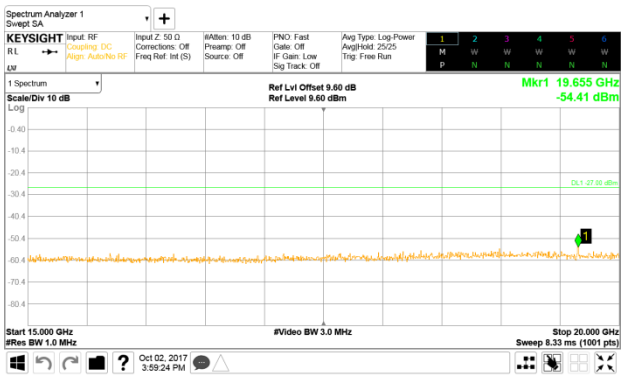
Test Date	2017/10/02	Temp./Hum.	24℃/53%
Mode	802.11n-HT40	UNII Band	II-2C
		Frequency	TX 5670MHz
Cable Loss	1.6dB	Test Voltage	DC 3.3V (through jig via Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		0	

1GHz – 5GHz	5GHz – 10GHz
	
10GHz – 15GHz	15GHz – 20GHz
	

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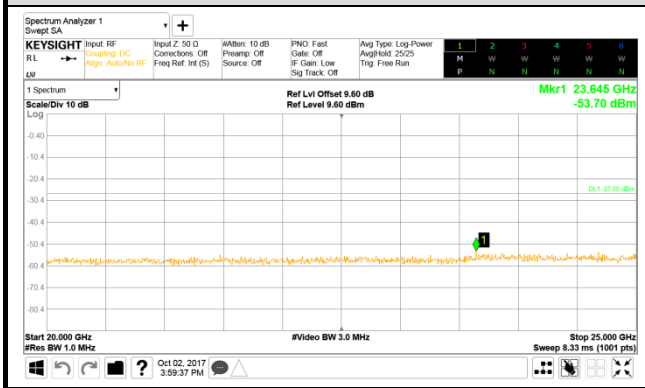
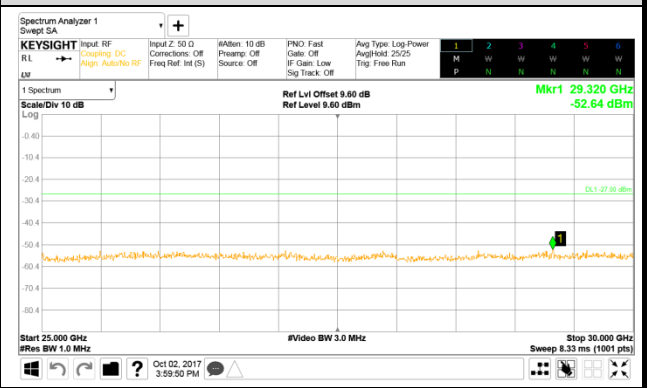
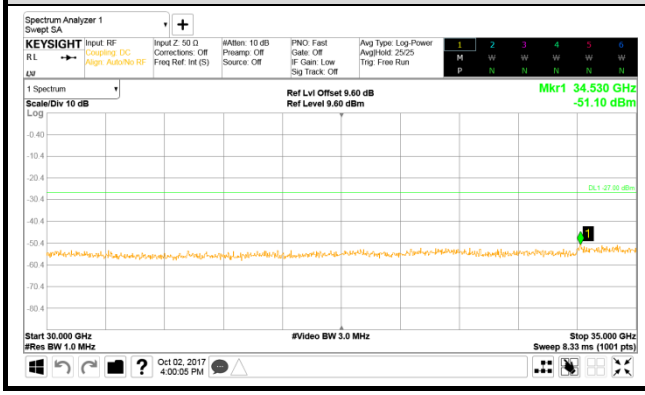
20GHz – 25GHz



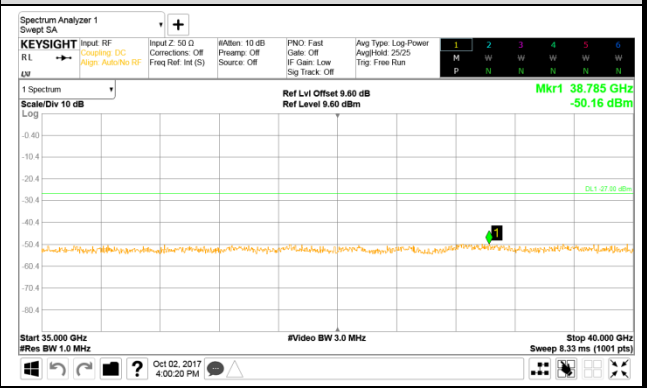
25GHz – 30GHz



30GHz – 35GHz



35GHz – 40GHz



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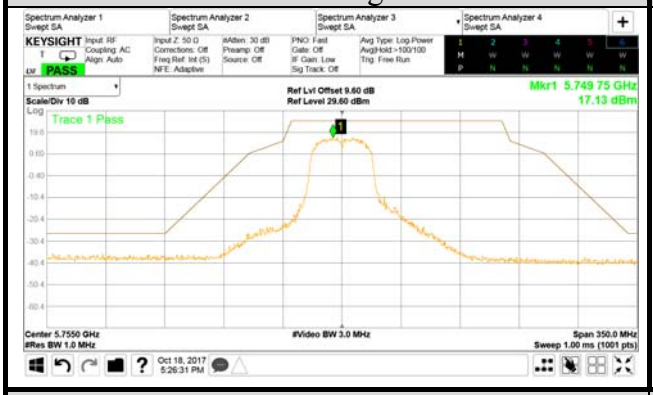
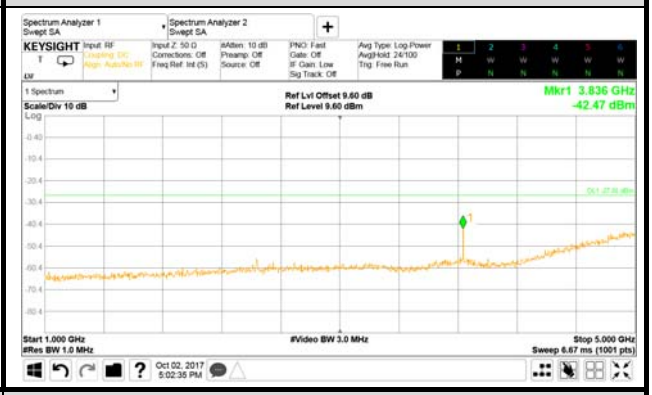
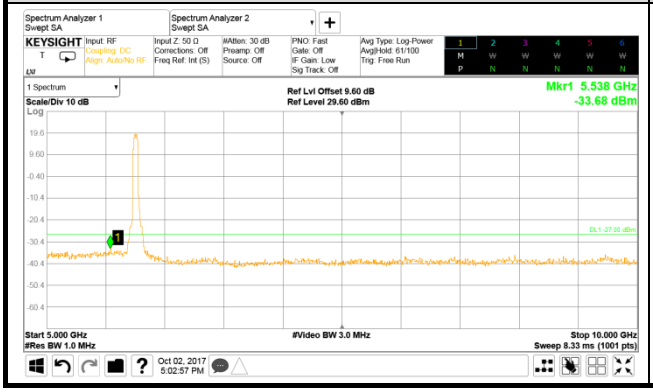
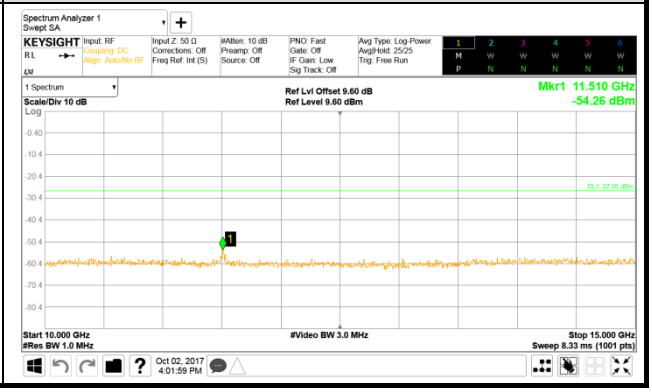
Test Date	2017/10/02 ~ 18	Temp./Hum.	24℃/53%
Mode	802.11n-HT40	UNII Band	III
		Frequency	TX 5755MHz
Cable Loss	1.6dB	Test Voltage	DC 3.3V (through jig via Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		0	

Band Edge	1GHz – 5GHz
	
5GHz – 10GHz	**10GHz – 15GHz**
	

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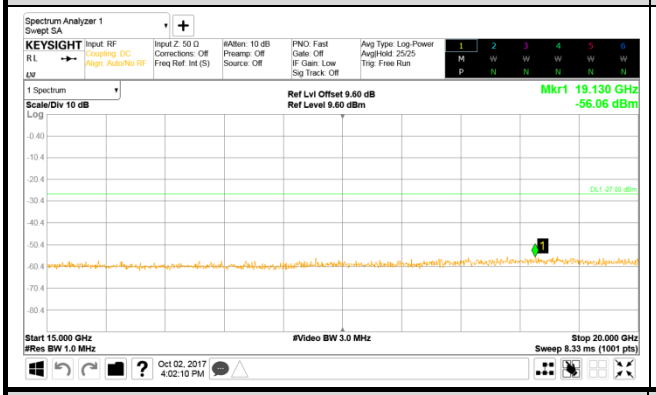
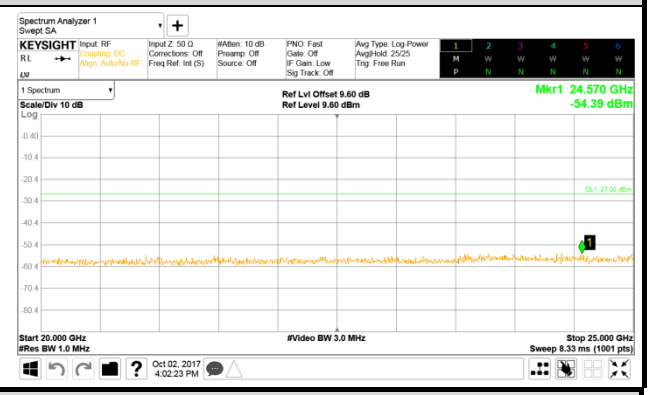
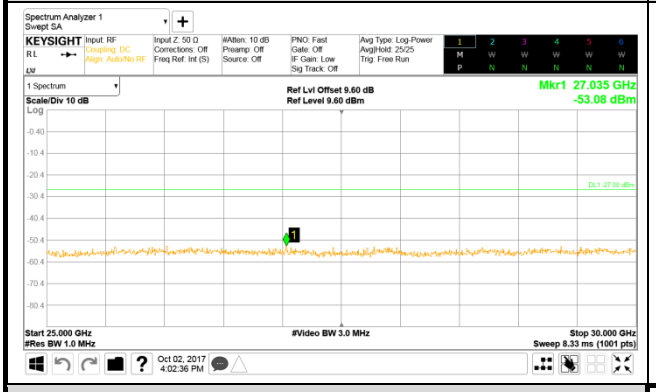
15GHz – 20GHz



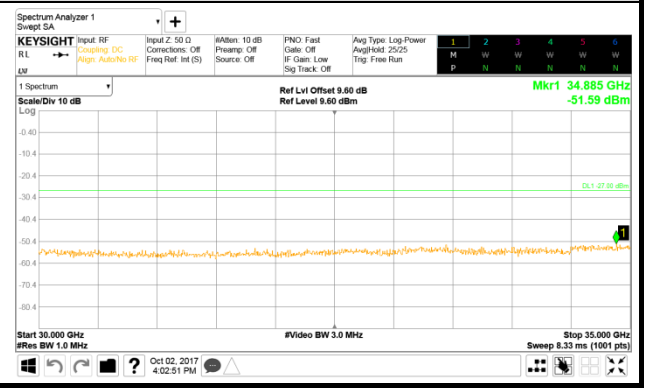
20GHz – 25GHz



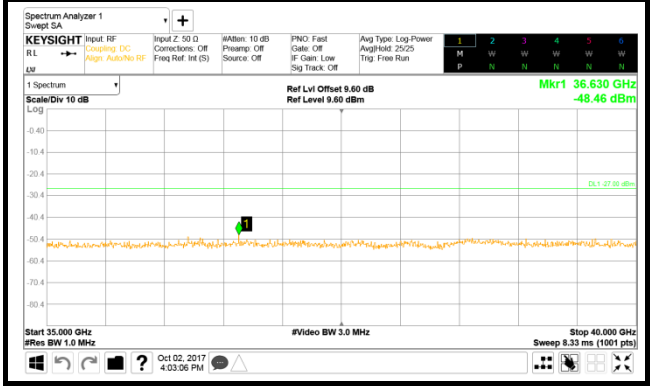
25GHz – 30GHz



30GHz – 35GHz



35GHz – 40GHz



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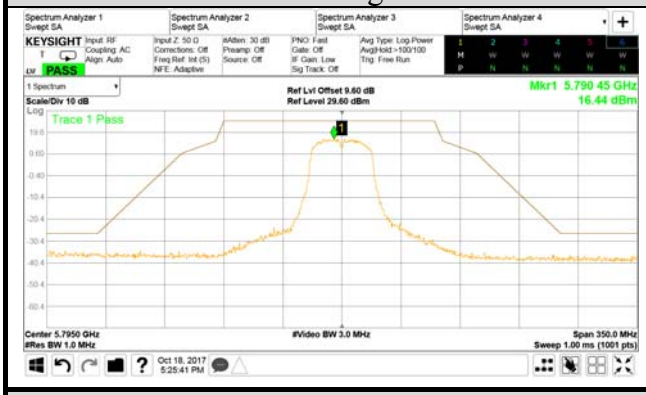
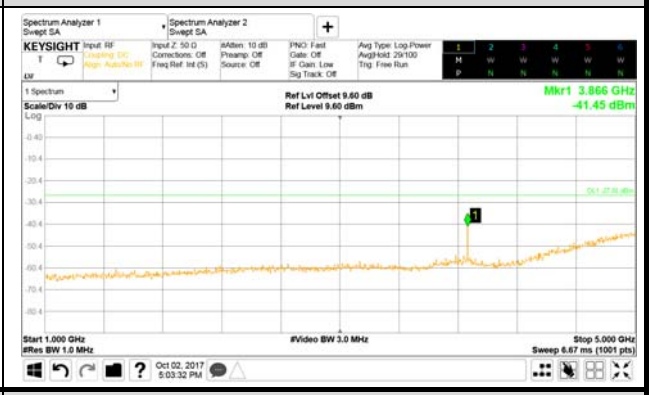
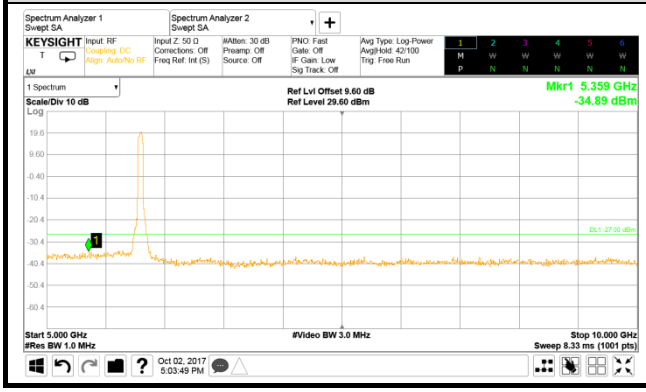
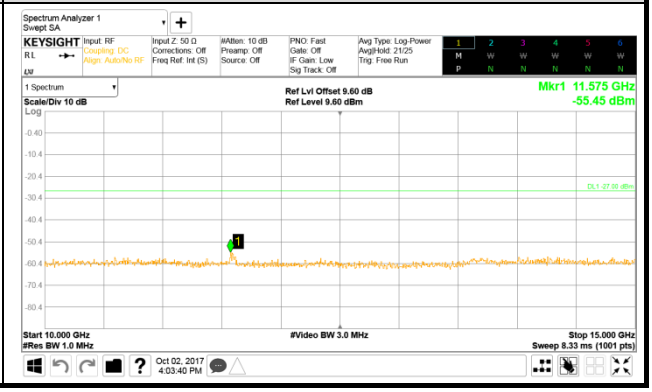
Test Date	2017/10/02 ~ 18	Temp./Hum.	24℃/53%
Mode	802.11n-HT40	UNII Band	III
		Frequency	TX 5795MHz
Cable Loss	1.6dB	Test Voltage	DC 3.3V (through jig via Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		0	

Band Edge	1GHz – 5GHz
	
5GHz – 10GHz	**10GHz – 15GHz**
	

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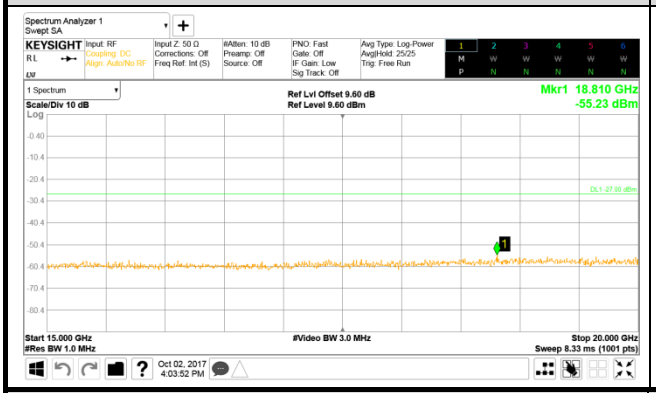
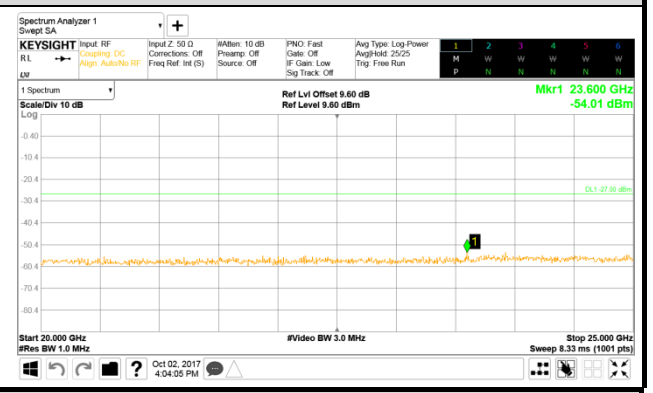
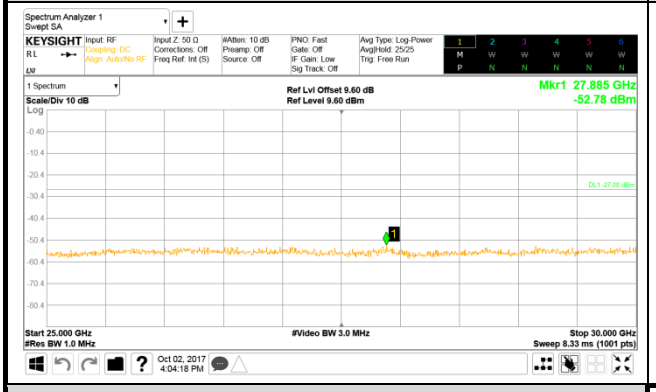
15GHz – 20GHz



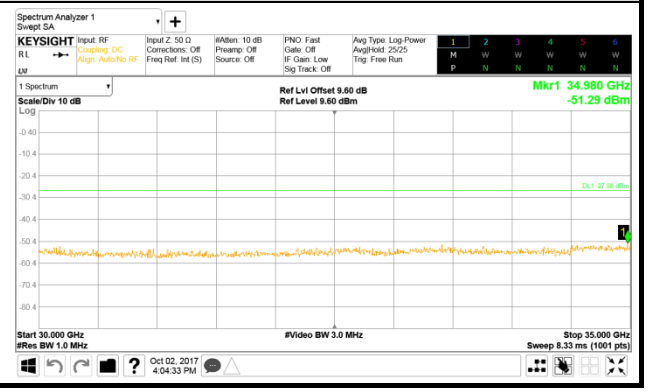
20GHz – 25GHz



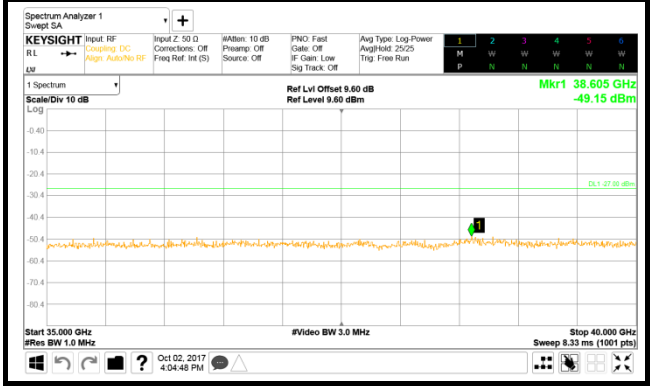
25GHz – 30GHz



30GHz – 35GHz



35GHz – 40GHz



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A.6 POWER SPECTRAL DENSITY

Test Date	2017/09/28	Temp./Hum.	24℃/53%
Cable Loss	1.4dB for Band I, II-2A 1.6dB for Band II-2C, III	Test Voltage	DC 3.3V (through jig via Notebook PC)
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			3 for PCB Antenna, 0 for Omni-S Antenna

A.6.1 Power Spectral Density Result

- **Antenna: PCB Antenna**

Mode	UNII Band	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11a	I	5180	9.852	11 dBm/MHz
		5200	9.985	
		5240	9.952	
	II-2A	5260	8.975	
		5300	9.711	
		5320	9.973	
	II-2C	5500	7.437	
		5580	8.195	
		5700	5.056	
	III[Note2]	5745	8.785	30dBm/500 kHz
		5785	9.494	
		5825	8.242	

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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Mode	UNII Band	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11n-HT20	I	5180	10.800	11 dBm/MHz
		5200	10.546	
		5240	10.641	
	II-2A	5260	10.743	
		5300	10.352	
		5320	10.773	
	II-2C	5500	10.050	
		5580	9.692	
		5700	6.705	
	III[Note2]	5745	7.615	30dBm/500 kHz
		5785	8.954	
		5825	8.558	
802.11n-HT40	I	5190	6.518	11 dBm/MHz
		5230	7.152	
	II-2A	5270	9.744	
		5310	9.203	
	II-2C	5510	6.555	
		5590	5.674	
		5670	5.269	
	III[Note2]	5755	5.341	30dBm/500 kHz
		5795	5.405	

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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- **Antenna: Omni-S Antenna**

Mode	UNII Band	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11a	I	5180	7.333	9dBm/MHz Note3
		5200	8.293	
		5240	8.222	
	II-2A	5260	7.909	
		5300	8.680	
		5320	7.531	
	II-2C	5500	6.475	
		5580	5.488	
		5700	4.191	
	III Note2	5745	4.228	28dBm/500 kHz Note4
		5785	6.227	
		5825	5.458	

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.

Note 3: 802.11a Directional gain is 8dBi > 6dBi, the Limit is 11 – (8-6) = 9 dBm

Note 4: 802.11a Directional gain is 8dBi > 6dBi, the Limit is 30 – (8-6) = 28 dBm

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Mode	UNII Band	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11n-HT20	I	5180	7.279	9dBm/MHz Note3
		5200	7.660	
		5240	8.184	
	II-2A	5260	8.715	
		5300	8.668	
		5320	8.441	
	II-2C	5500	6.923	
		5580	8.001	
		5700	3.745	
	III Note2	5745	4.282	28dBm/500 kHz Note4
		5785	5.823	
		5825	4.888	
802.11n-HT40	I	5190	3.605	9dBm/MHz Note3
		5230	3.946	
	II-2A	5270	6.172	
		5310	5.985	
	II-2C	5510	3.561	
		5590	4.604	
		5670	2.126	
	III Note2	5755	2.079	28dBm/500 kHz Note4
		5795	2.373	

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.

Note 3: 802.11n Directional gain is 8dBi > 6dBi, the Limit is 11 – (8-6) = 9 dBm

Note 4: 802.11n Directional gain is 8dBi > 6dBi, the Limit is 30 – (8-6) = 28 dBm

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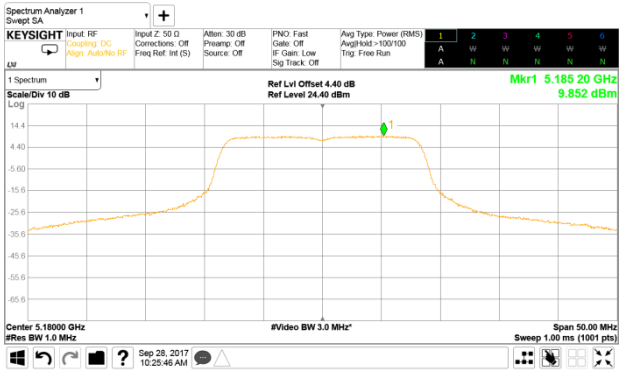
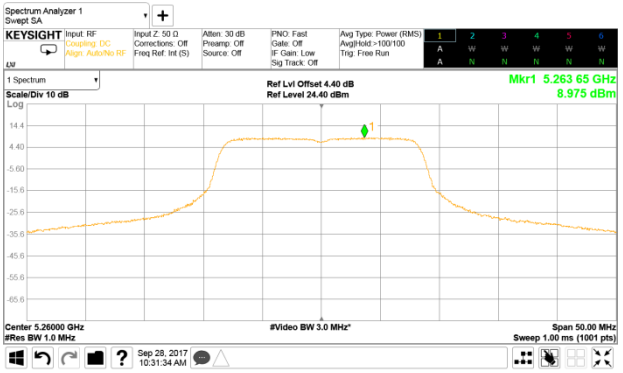
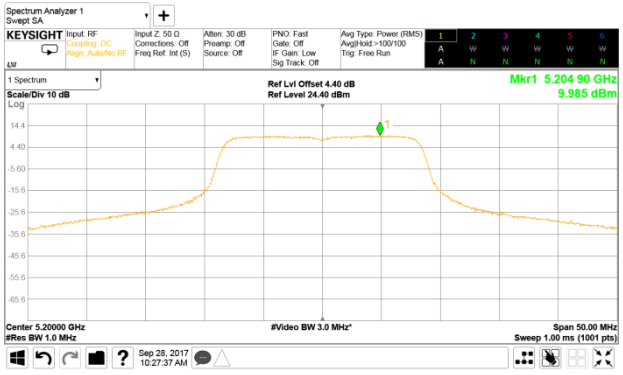
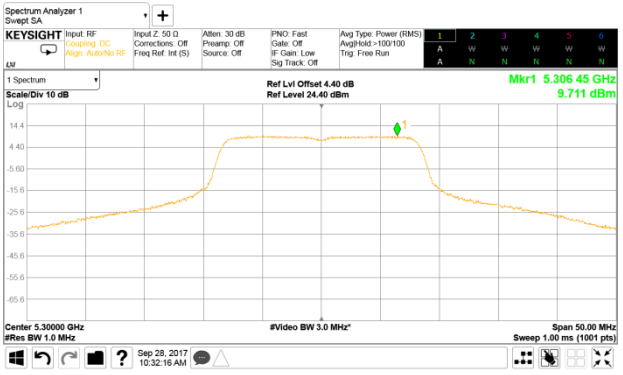
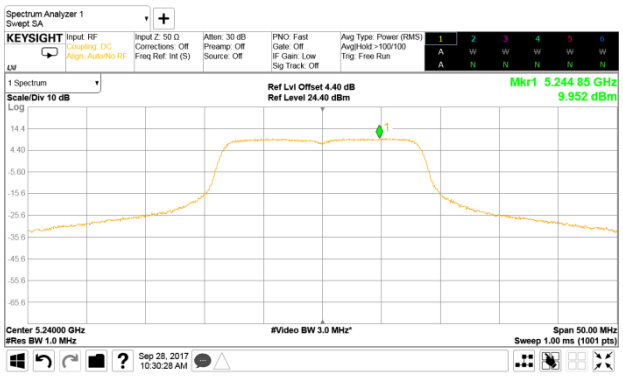
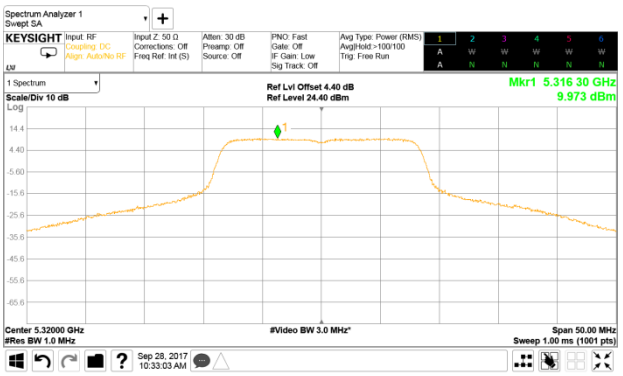
A.6.2 Measurement Plots

- **Antenna: PCB Antenna**

Antenna: PCB Antenna	
802.11a	
UNII Band I	UNII Band II-2A
	
	
	

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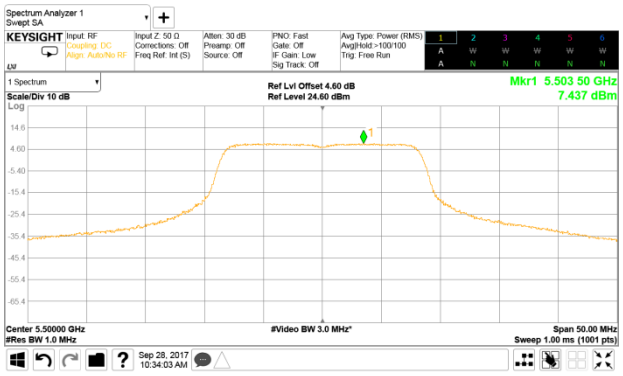
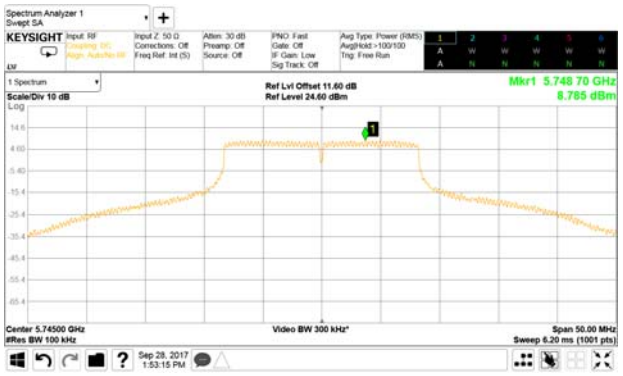
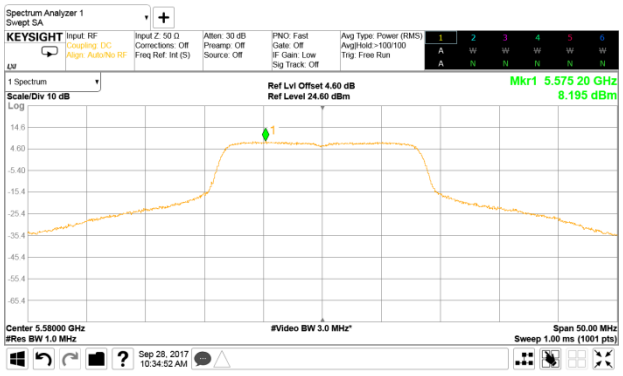
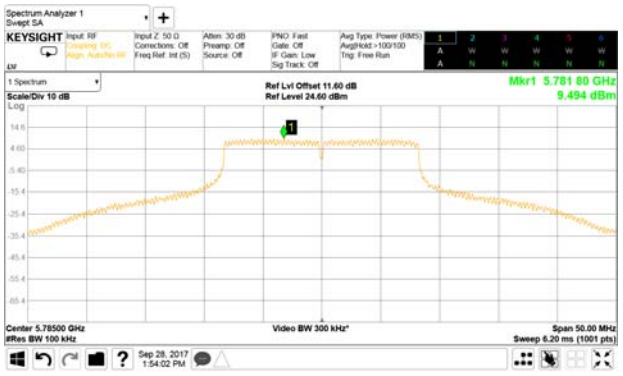
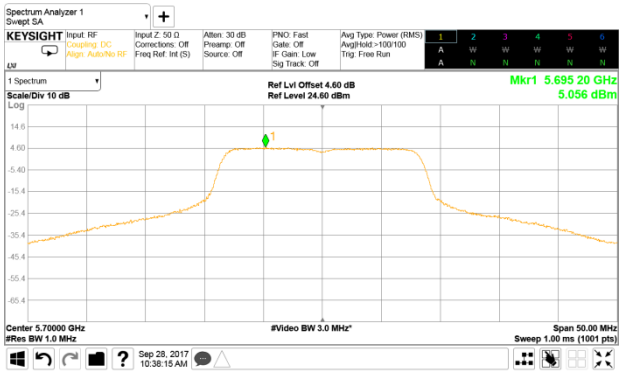
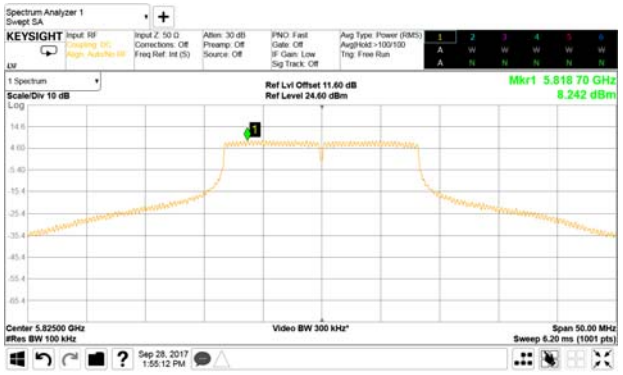
Antenna: PCB Antenna	
802.11a	
UNII Band II-2C	UNII Band III
	
	
	

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Antenna: PCB Antenna	
802.11n-HT20	
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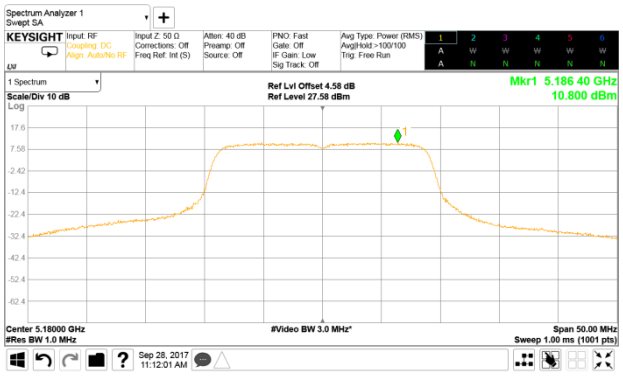	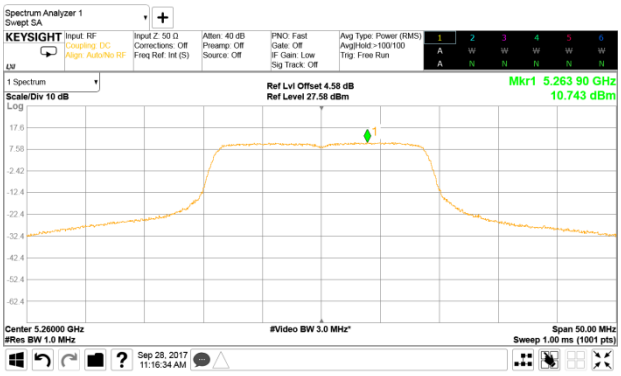
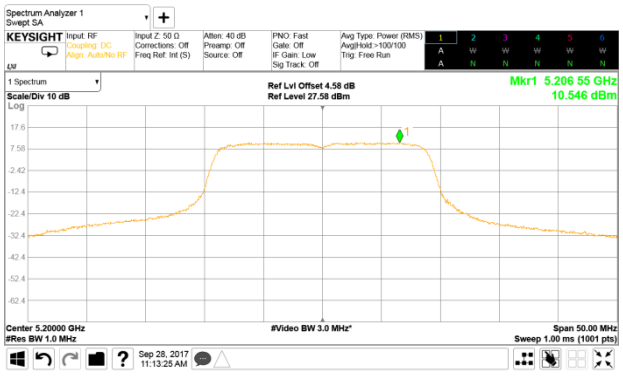	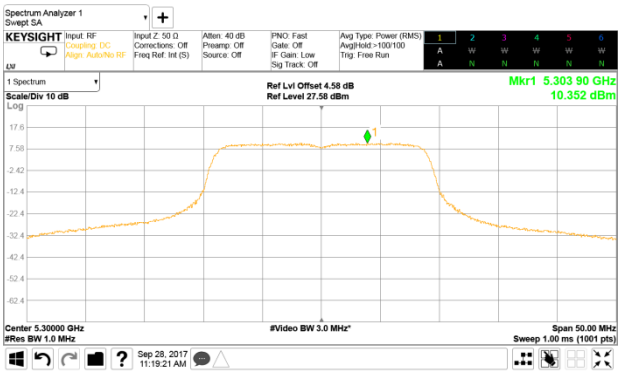
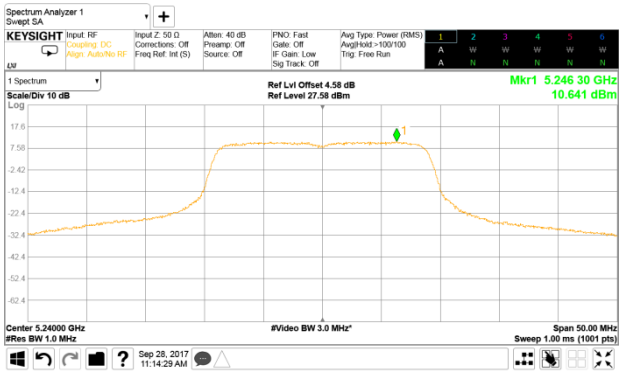	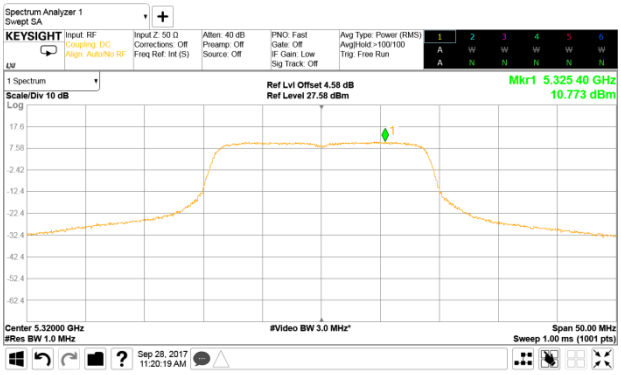

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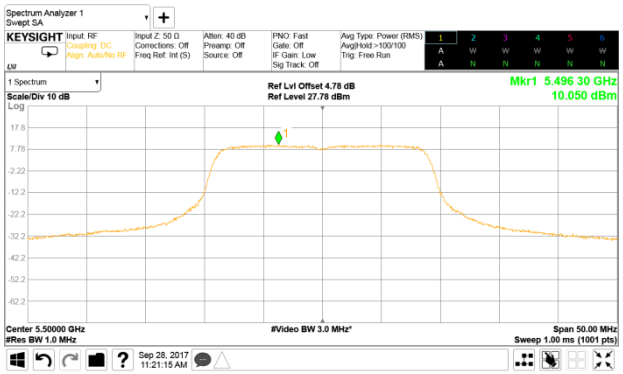
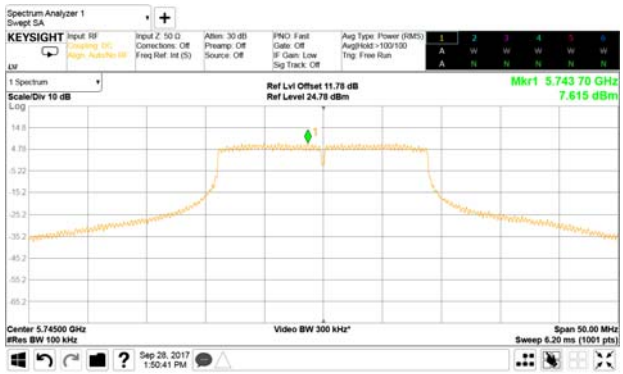
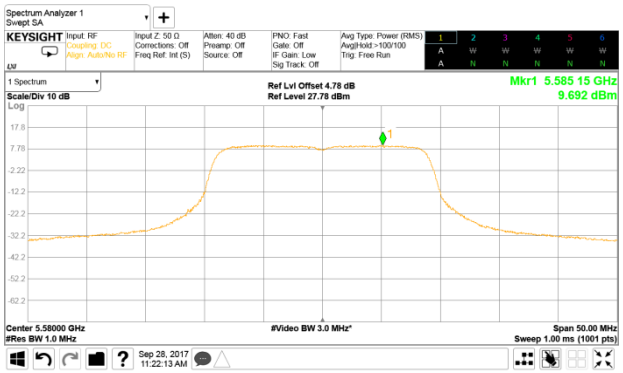
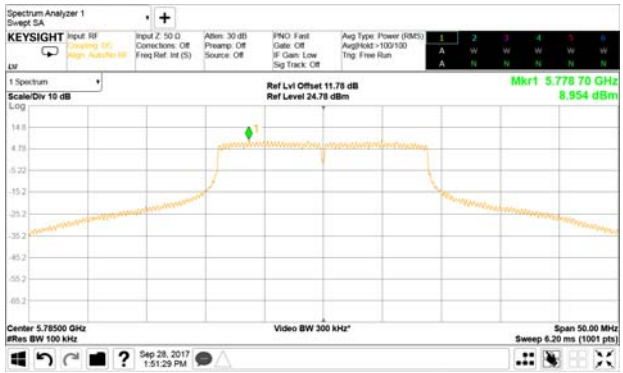
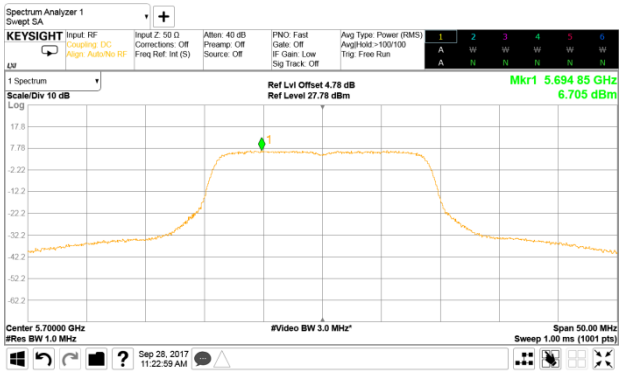
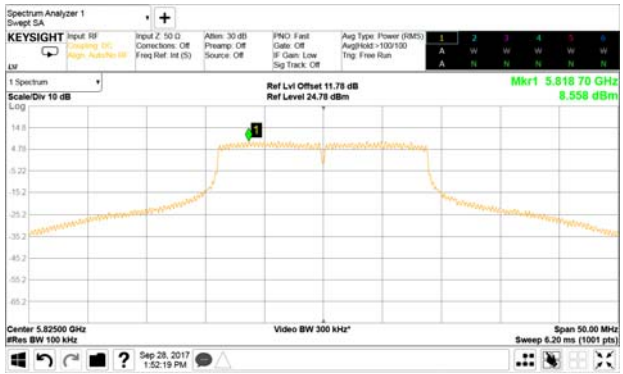
Antenna: PCB Antenna	
802.11n-HT20	
UNII Band II-2C	UNII Band III
	
	
	

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Antenna: PCB Antenna	
802.11n-HT40	
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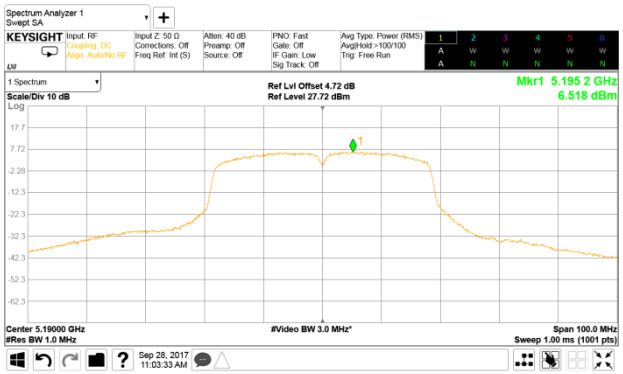	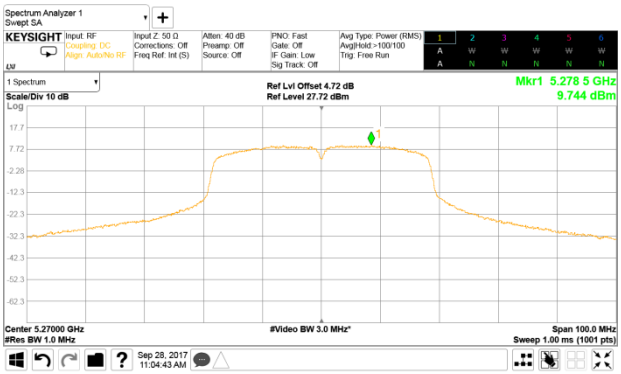
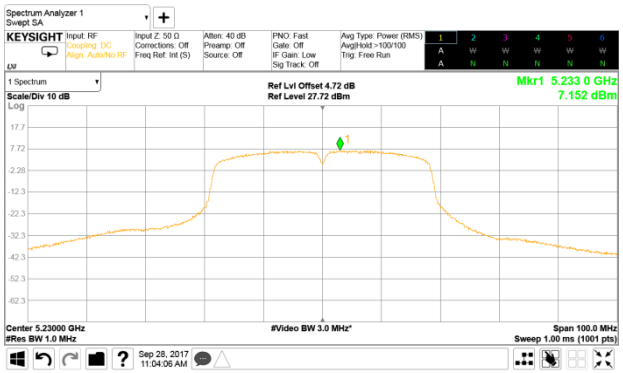	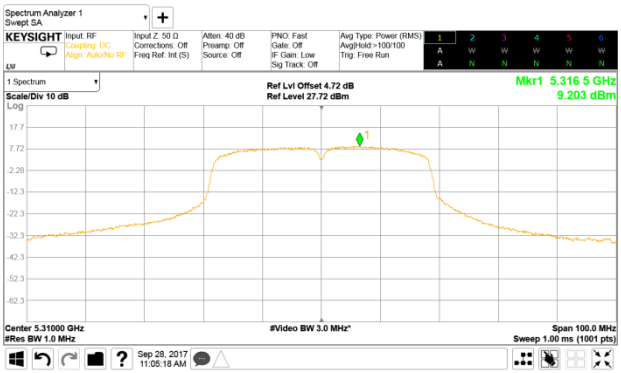

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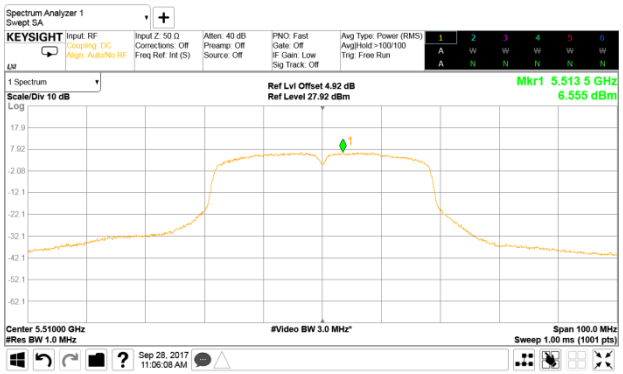
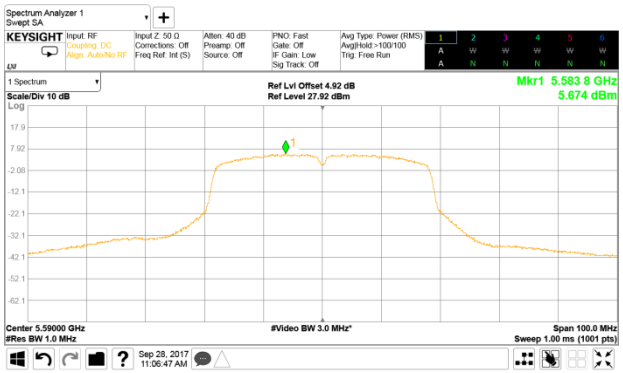
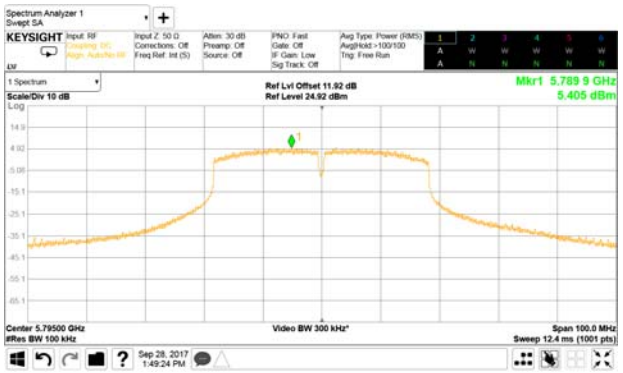
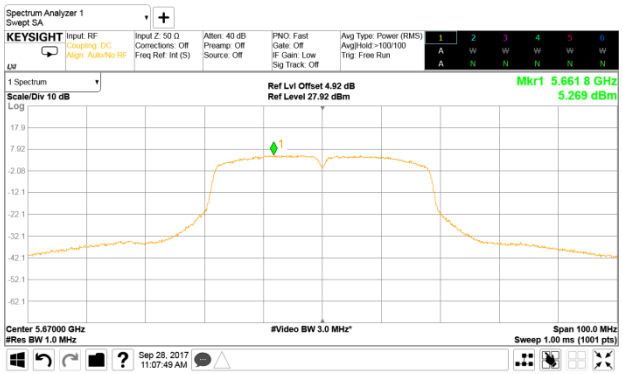
Antenna: PCB Antenna	
802.11n-HT40	
UNII Band II-2C	UNII Band III
	
	
	

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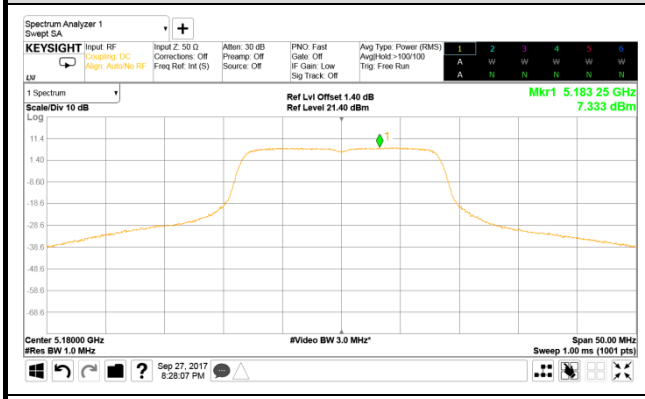
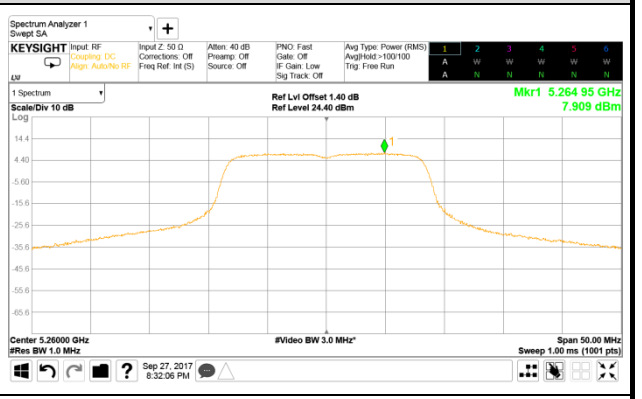
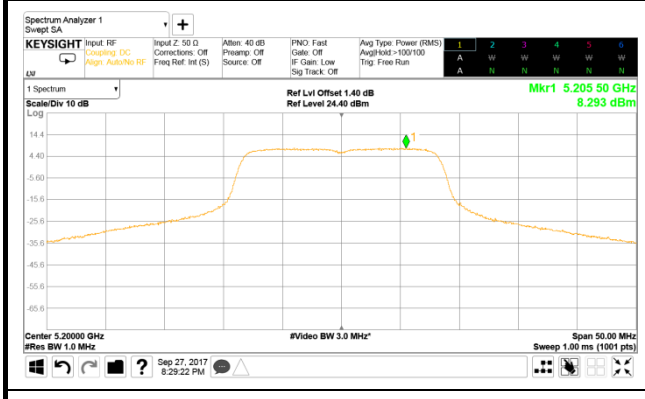
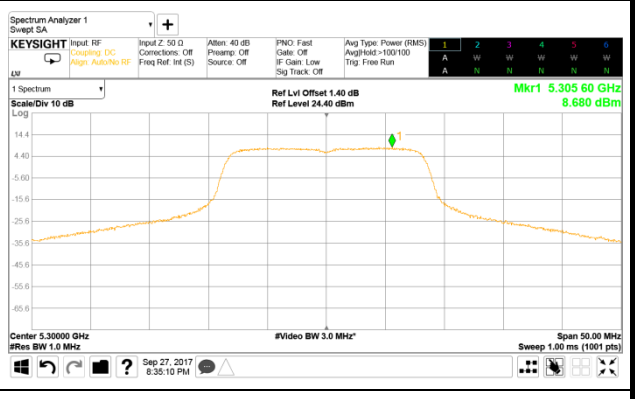
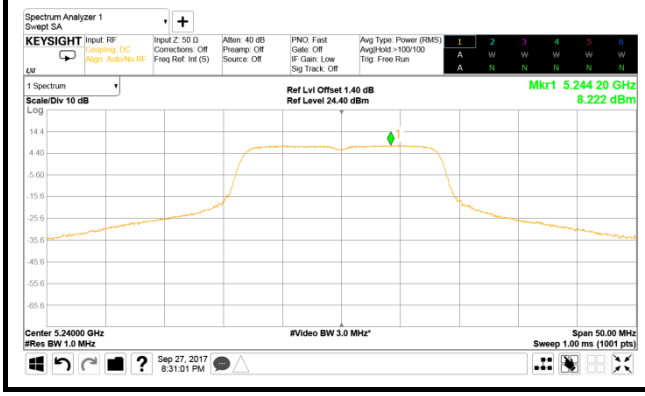
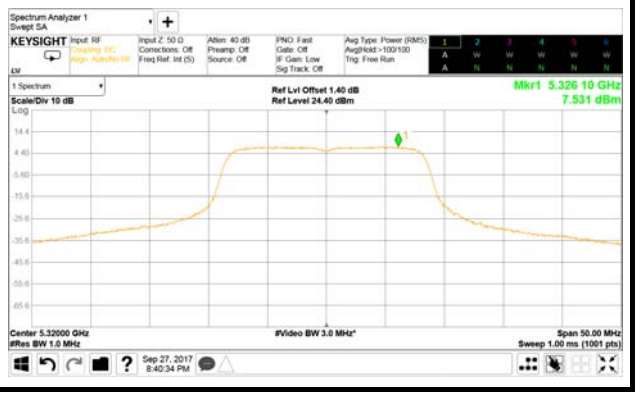
- **Antenna: Omni-S Antenna**

Antenna: Omni-S Antenna	
802.11a	
UNII Band I	UNII Band II-2A
	
	
	

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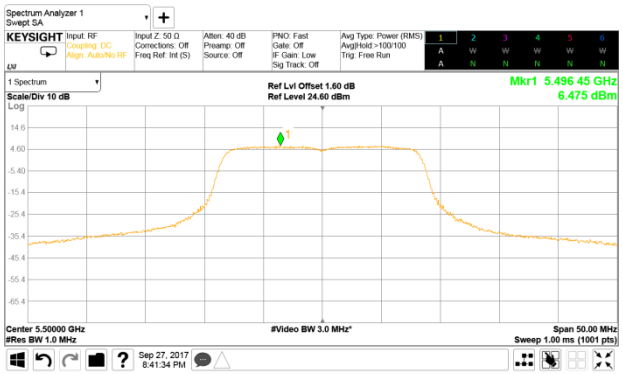
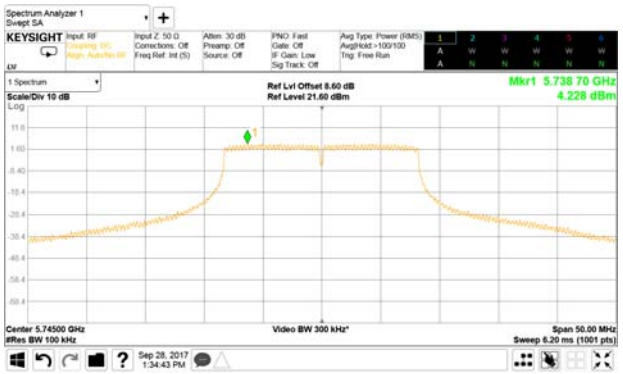
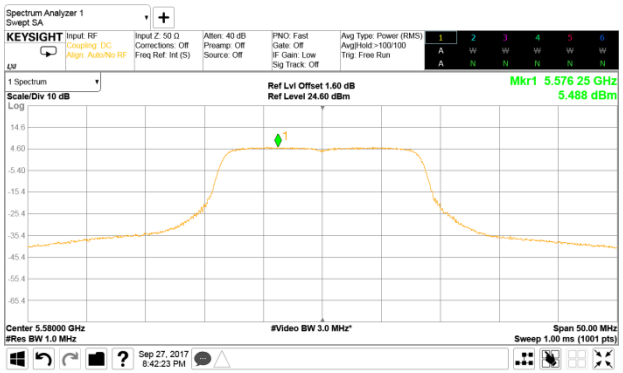
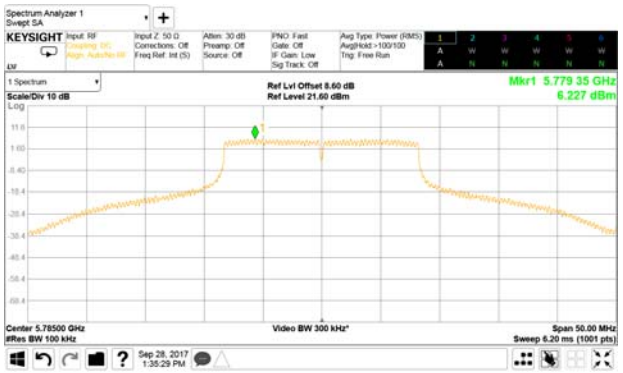
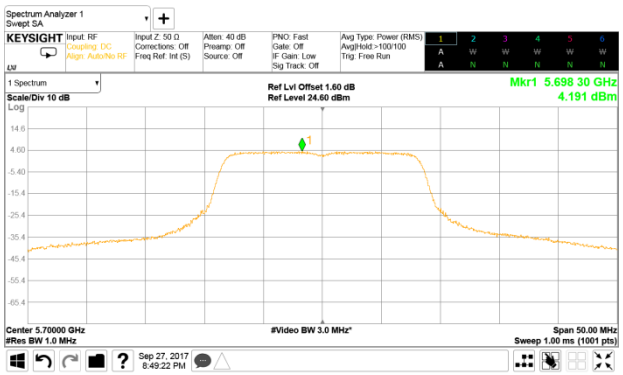
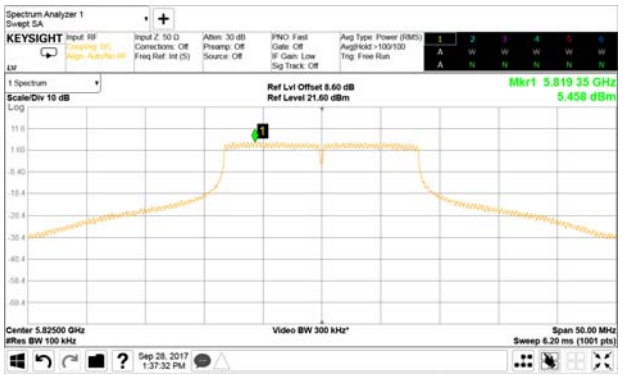
Antenna: Omni-S Antenna	
802.11a	
UNII Band II-2C	UNII Band III
	
	
	

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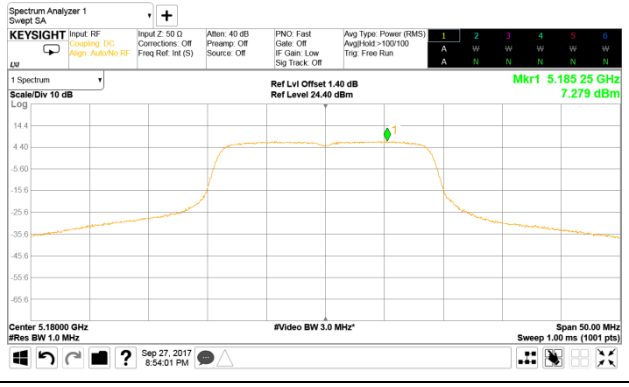
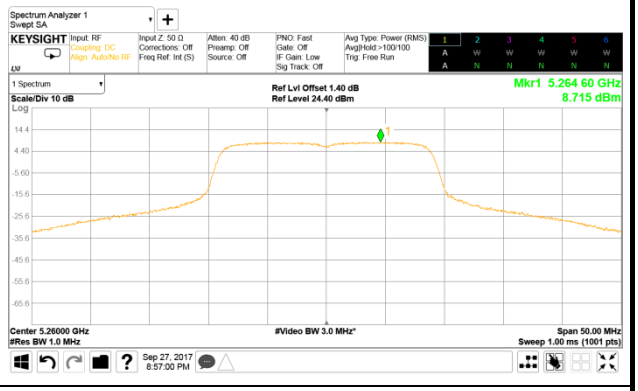
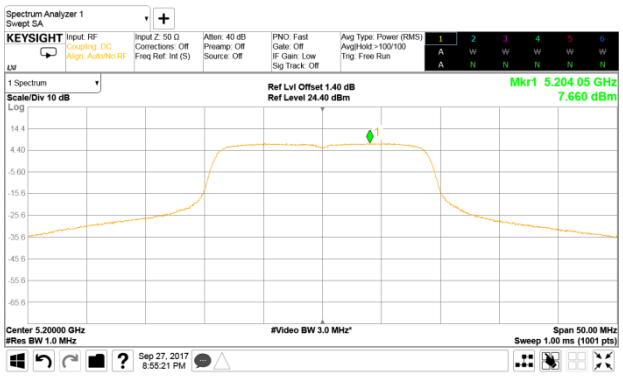
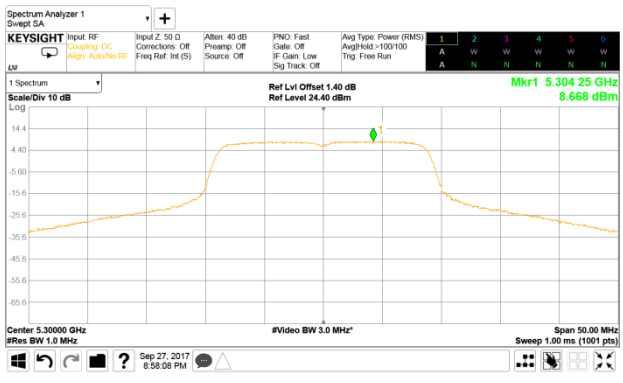
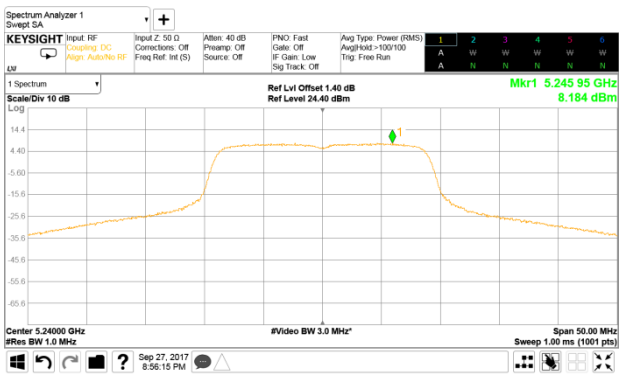
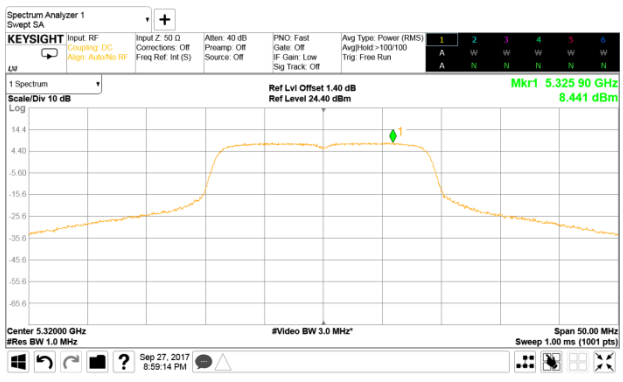
Antenna: Omni-S Antenna	
802.11n-HT20	
UNII Band I	UNII Band II-2A
	
	
	

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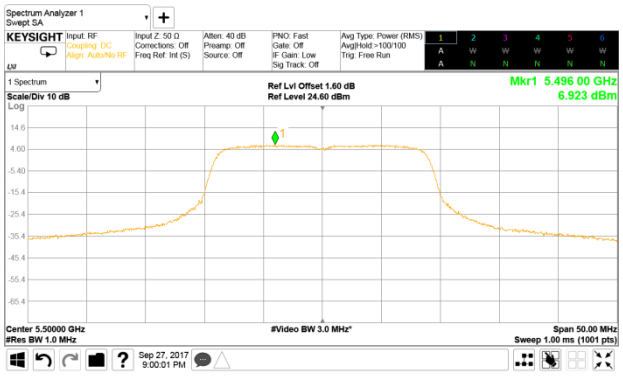
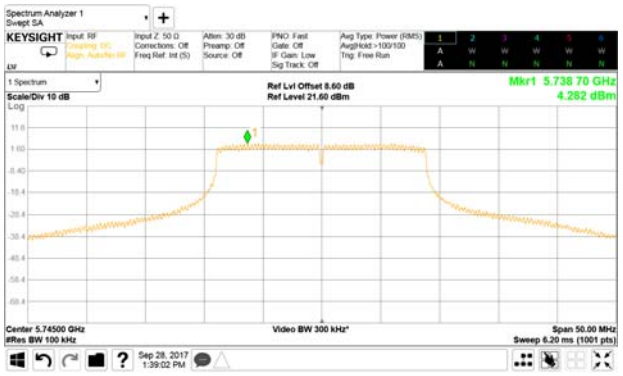
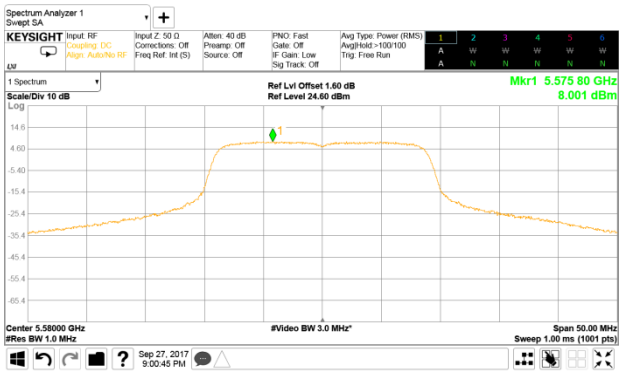
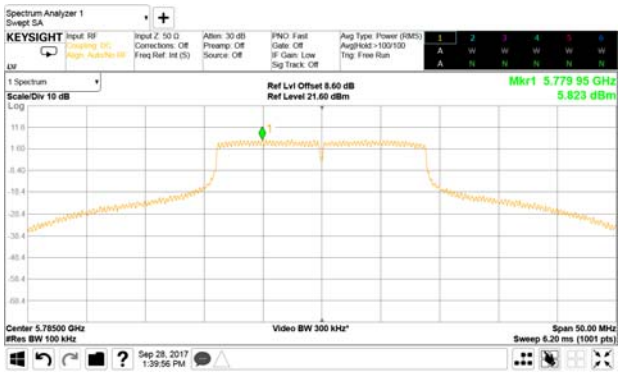
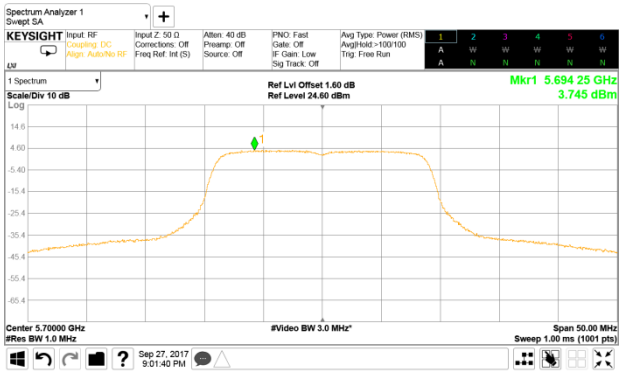
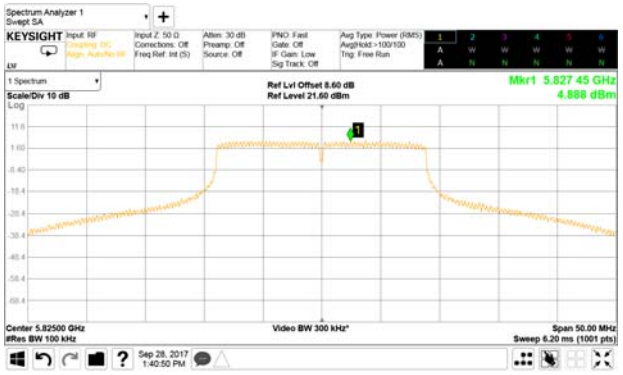
Antenna: Omni-S Antenna	
802.11n-HT20	
UNII Band II-2C	UNII Band III
	
	
	

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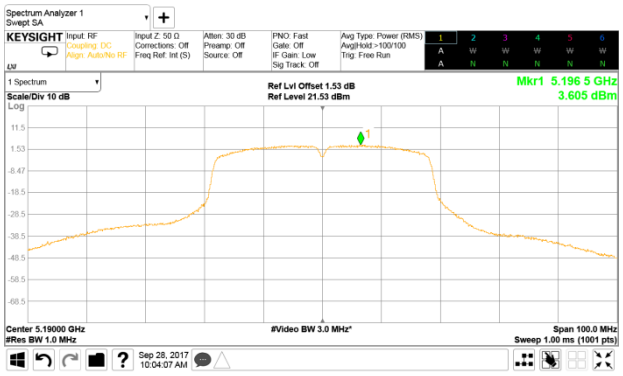
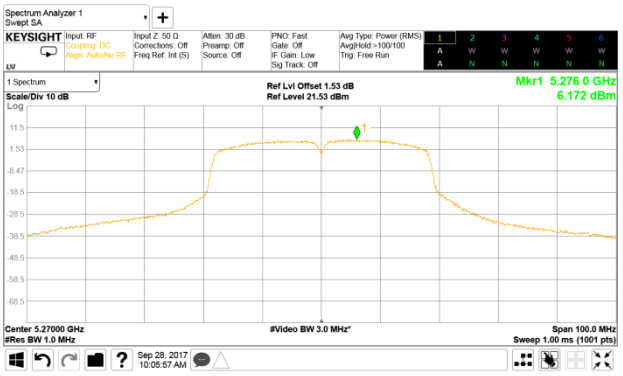
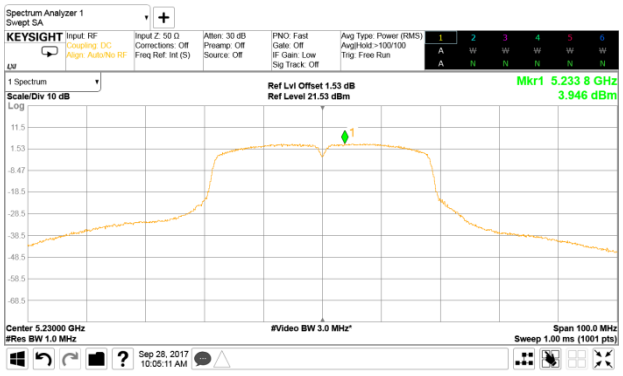
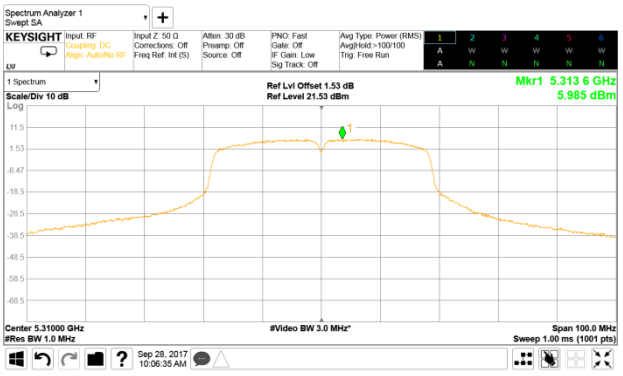
Antenna: Omni-S Antenna	
802.11n-HT40	
UNII Band I	UNII Band II-2A
	
	

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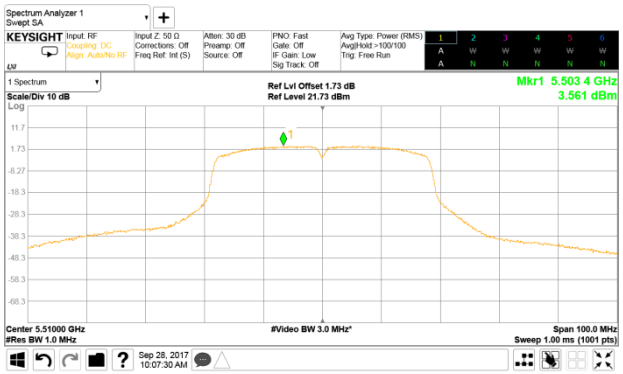
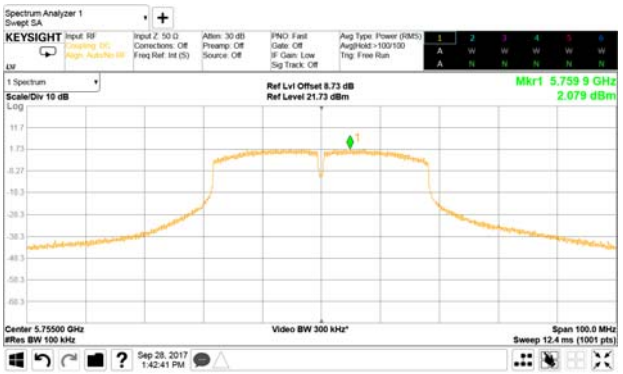
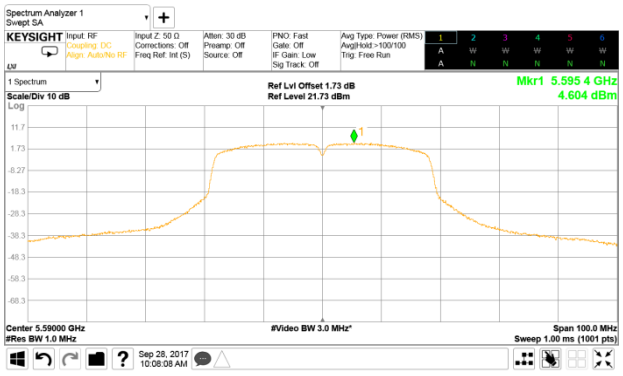
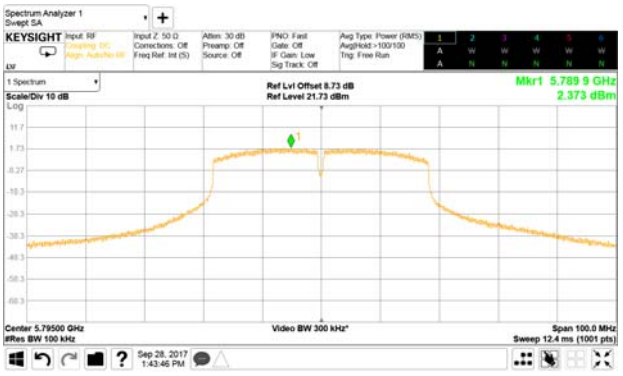
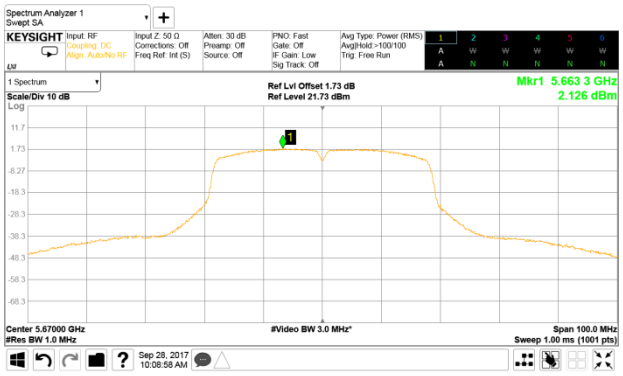
Antenna: Omni-S Antenna	
802.11n-HT40	
UNII Band II-2C	UNII Band III
	
	
	

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A.7 FREQUENCY STABILITY

Test Date	2017/10/11	Temp./Hum.	24℃/53%
Cable Loss	---	Test Voltage	DC 3.3V (through jig via Notebook PC)
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			3 for PCB Antenna, 0 for Omni-S Antenna

A.7.1 Frequency stability Result

5180MHz					
Temperature(℃)	-30	-20	-10	0	25
Voltage (Vdc)	3.795	3.795	3.795	3.795	3.3
Frequency(MHz)	5180.025	5180.006	5179.998	5180.011	5180.003
Frequency Stability (ppm)	4.826	1.158	-0.386	2.124	0.579
Temperature(℃)	-30	-20	-10	0	
Voltage (Vdc)	2.805	2.805	2.805	2.805	
Frequency(MHz)	5180.017	5180.029	5180.014	5180.014	
Frequency Stability (ppm)	3.282	5.598	2.703	2.703	
Temperature(℃)	50	40	30	20	10
Voltage (Vdc)	3.795	3.795	3.795	3.795	3.795
Frequency(MHz)	5179.994	5180.007	5180.003	5179.995	5180.010
Frequency Stability (ppm)	-1.158	1.351	0.579	-0.965	1.931
Temperature(℃)	50	40	30	20	10
Voltage (Vdc)	2.805	2.805	2.805	2.805	2.805
Frequency(MHz)	5179.976	5179.985	5179.999	5179.991	5179.984
Frequency Stability (ppm)	-4.633	-2.896	-0.193	-1.737	-3.089