AUDIX Technology Corp.
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APPDNDIX A

TEST PLOTS

(Model: FXE3000-US)

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A.1 EMISSION BANDWIDTH MEASUREMENT

Test Date	2016/03/26 ~ 07/15	Temp./Hum.	25 ~ 26℃/54 ~ 60%
Cable Loss	N/A	Test Voltage	DC 3.3V

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	43.53	25.936	Reference only
		5200	35.21	18.248	
		5240	37.82	19.493	
	II-2A	5260	44.13	28.118	
		5300	44.37	27.511	
		5320	43.43	26.477	
	II-2C	5500	37.97	18.729	
		5580	41.87	23.751	
		5700	35.97	18.489	
802.11n-HT20	I	5180	30.00	18.306	
		5200	25.37	18.041	
		5240	24.08	18.042	
	II-2A	5260	24.30	18.079	
		5300	24.98	18.034	
		5320	24.69	18.002	
	II-2C	5500	24.35	18.053	
		5580	24.53	18.032	
		5700	26.03	18.120	
802.11n-HT40	I	5190	48.60	37.009	Reference only
		5230	68.86	37.671	
	II-2A	5270	51.55	37.356	
		5310	49.23	37.106	
	II-2C	5510	47.11	36.619	
		5550	55.49	36.516	
		5670	66.46	37.595	

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Modulation Type	UNII Band	Centre Frequency (MHz)	6dB Bandwidth (MHz)	Limit
802.11a	III	5745	16.61	≥ 500kHz
		5785	16.62	
		5825	16.63	
802.11n-HT20	III	5745	17.84	
		5785	17.87	
		5825	17.87	
802.11n-HT40	III	5755	36.59	
		5795	36.57	

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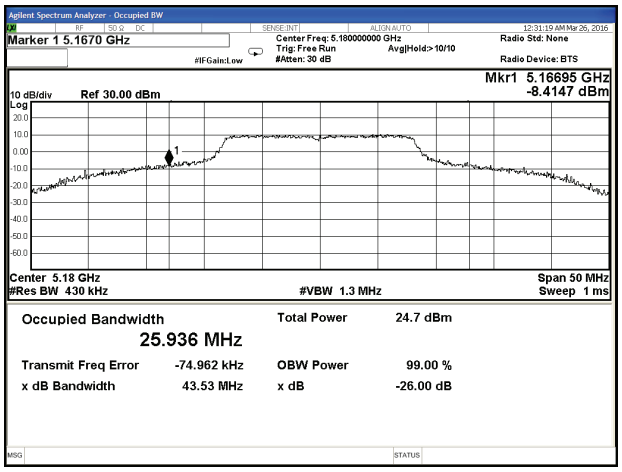
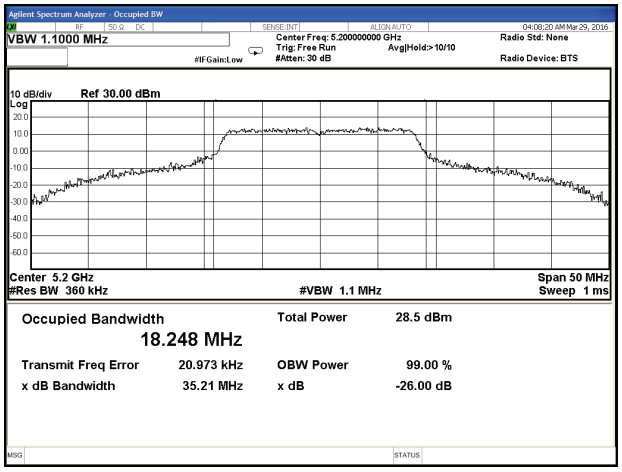
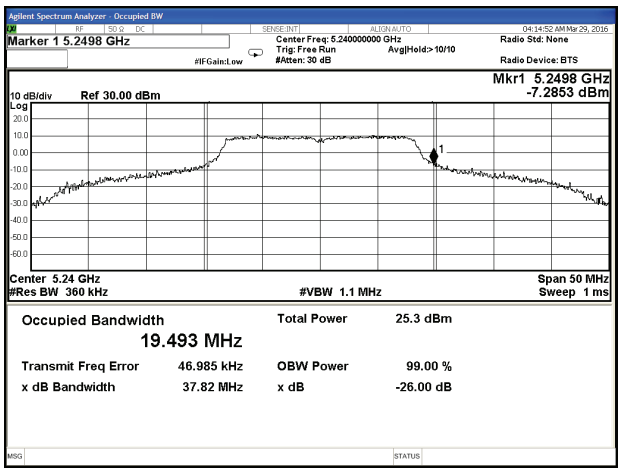
A.1.2 Measurement Plots

802.11a

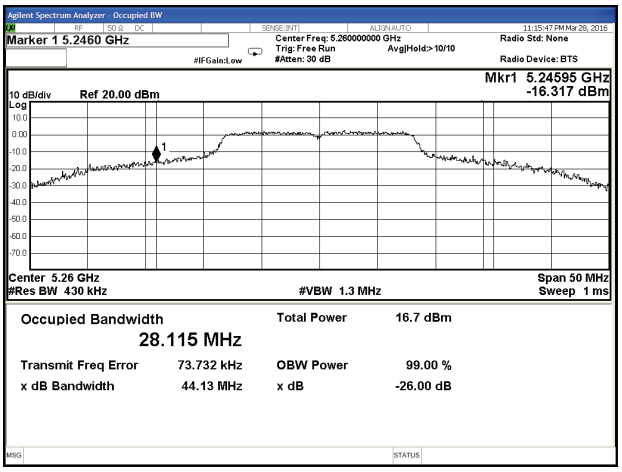
UNII Band I

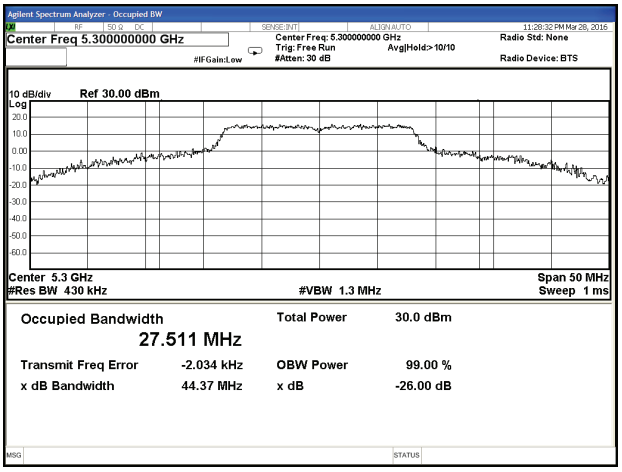


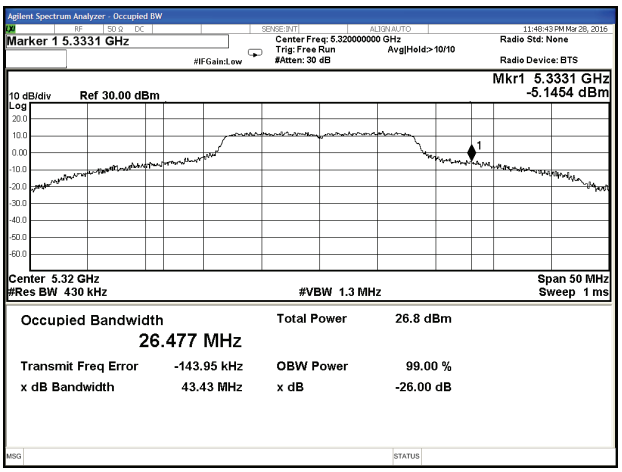




UNII Band II-2A







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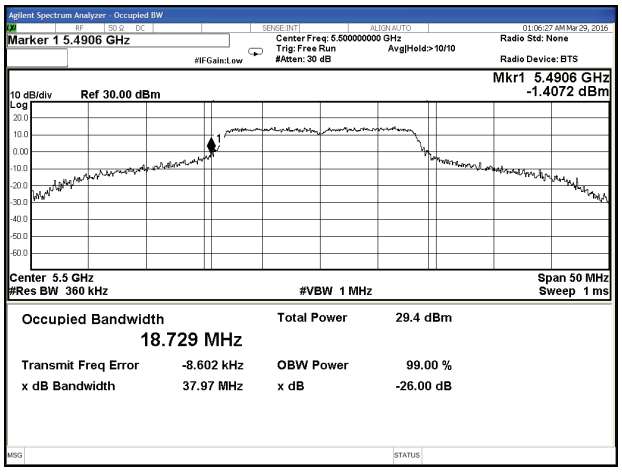
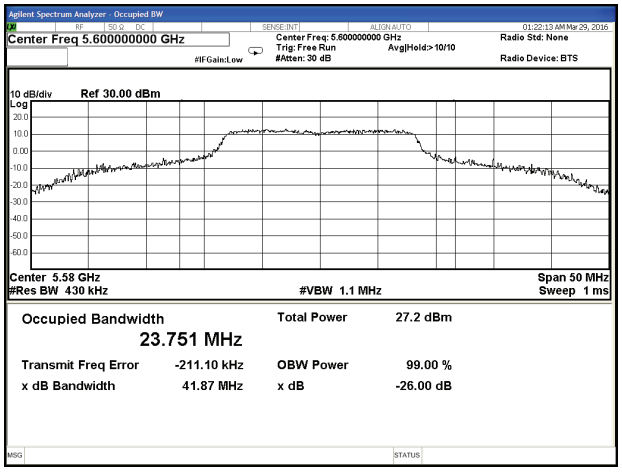
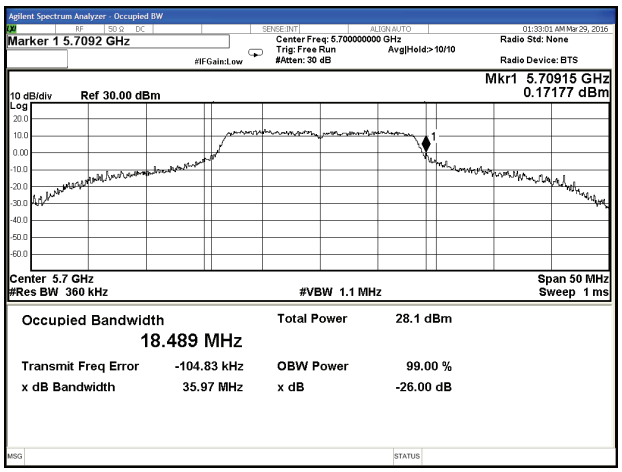
802.11a

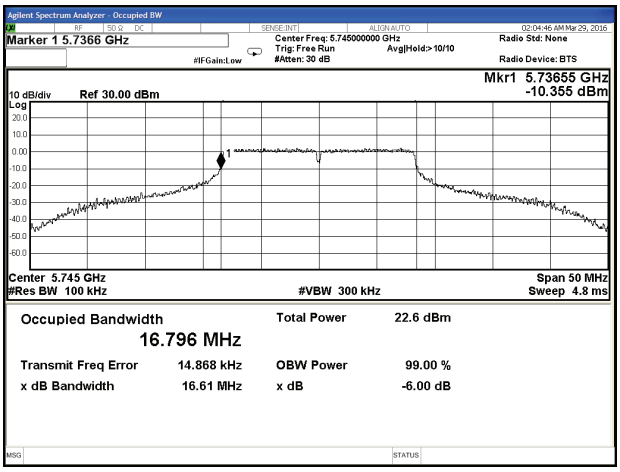
UNII Band II-2C

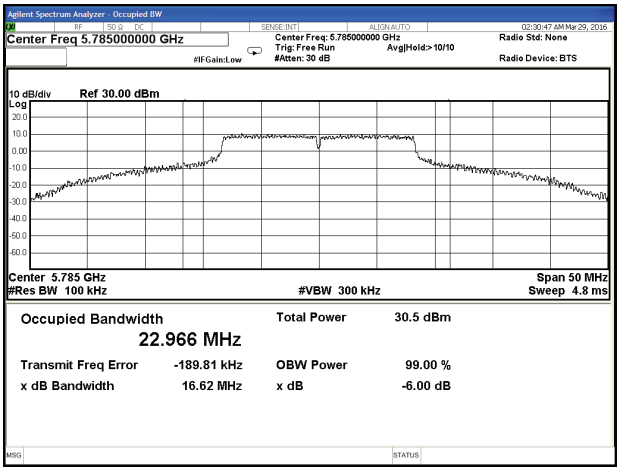


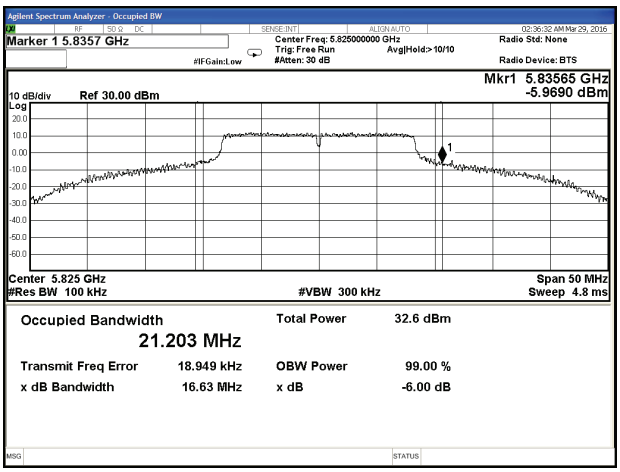




UNII Band III







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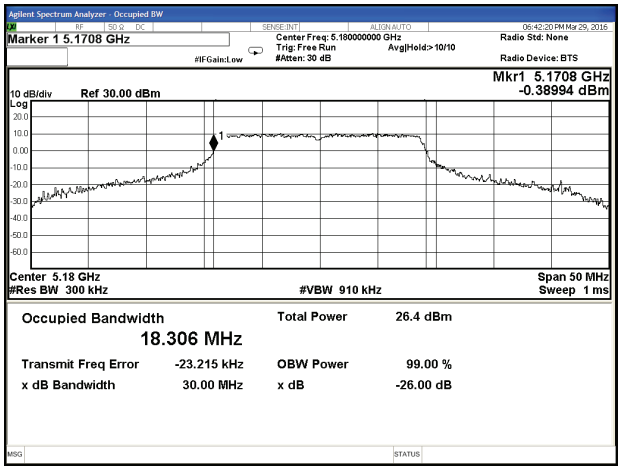
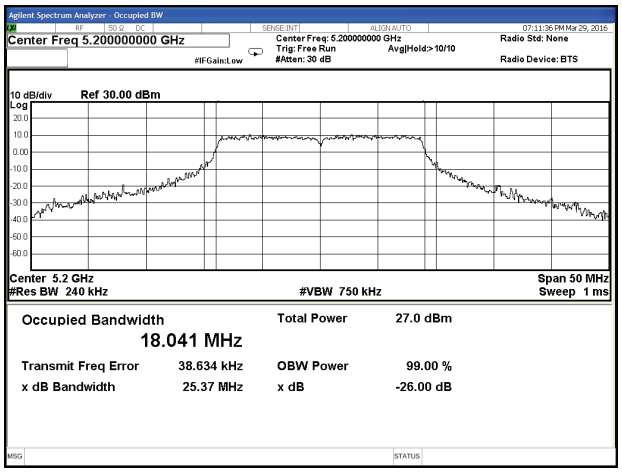
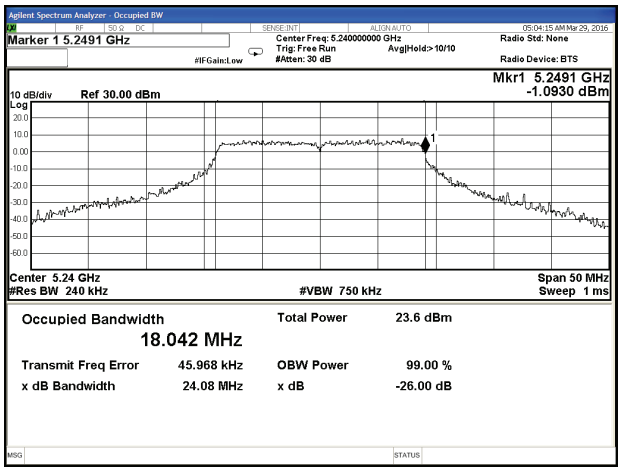
802.11n-HT20

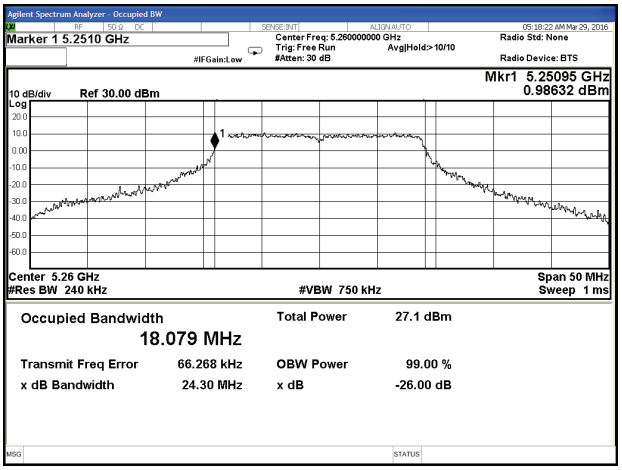
UNII Band I

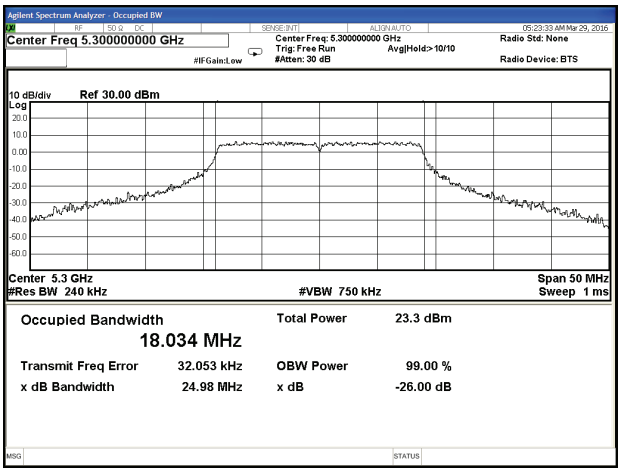


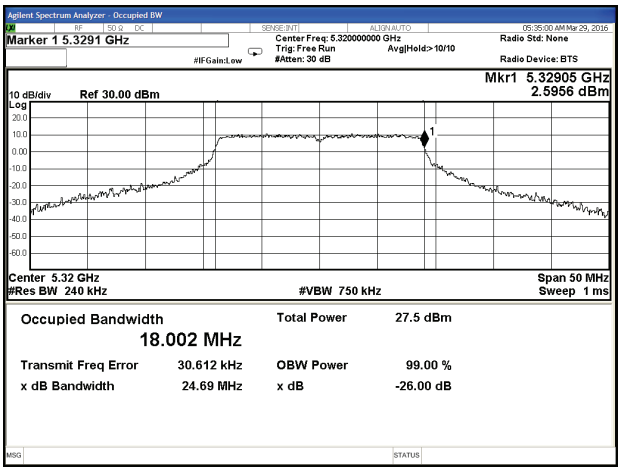




UNII Band II-2A







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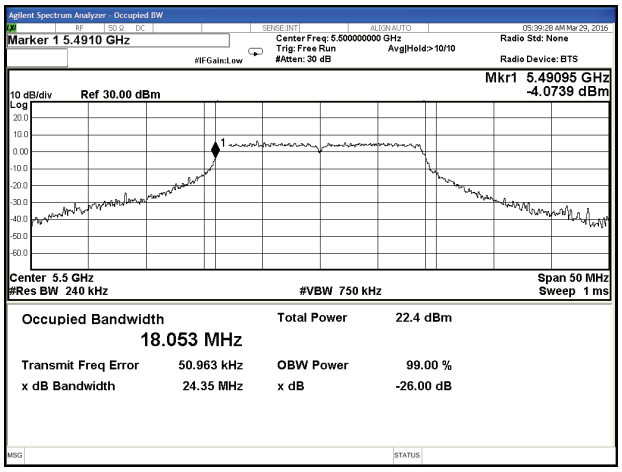
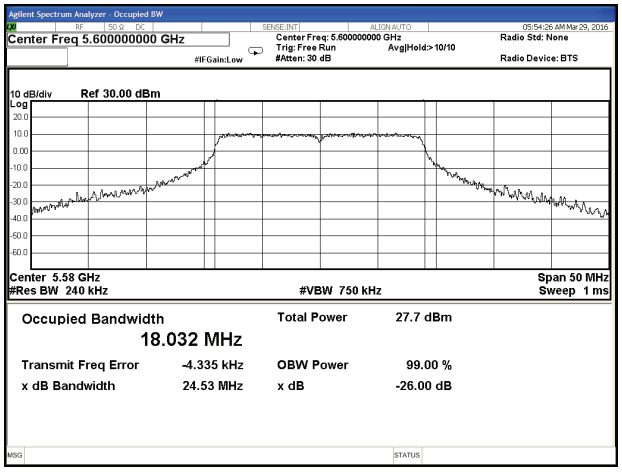
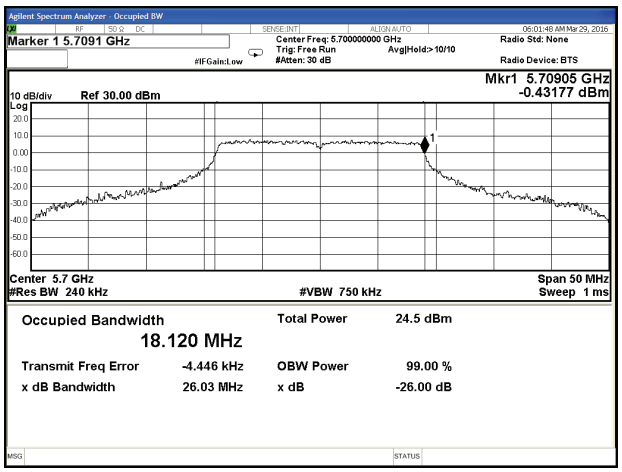
802.11n-HT20

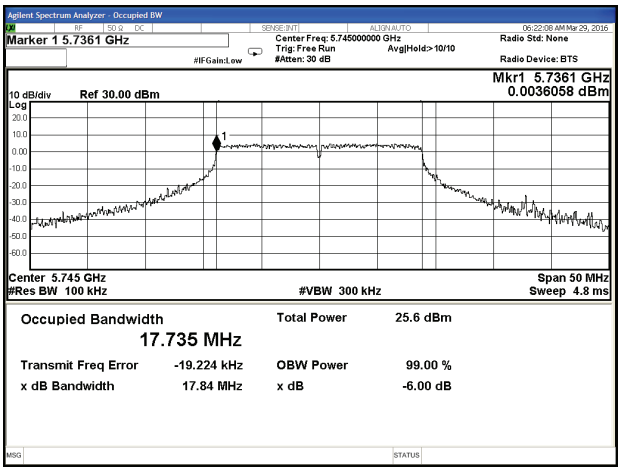
UNII Band II-2C

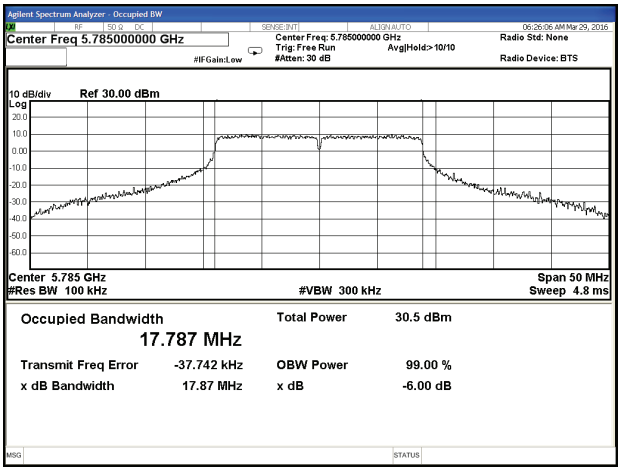


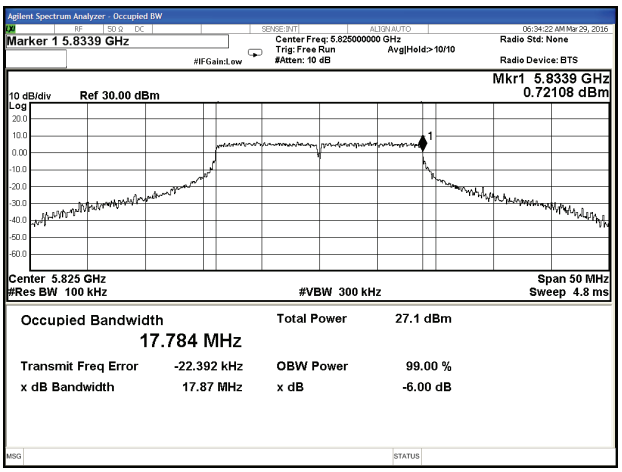




UNII Band III







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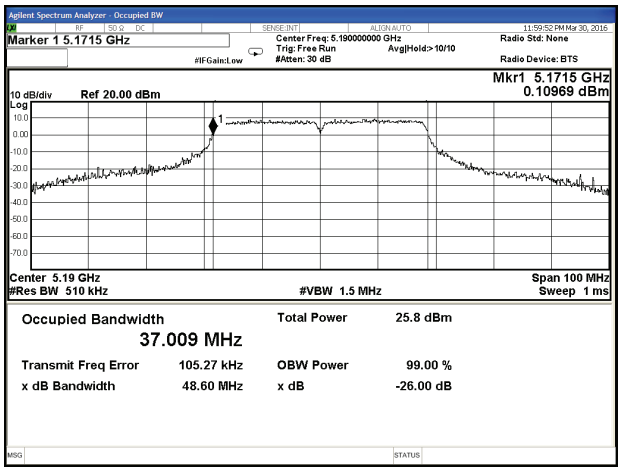
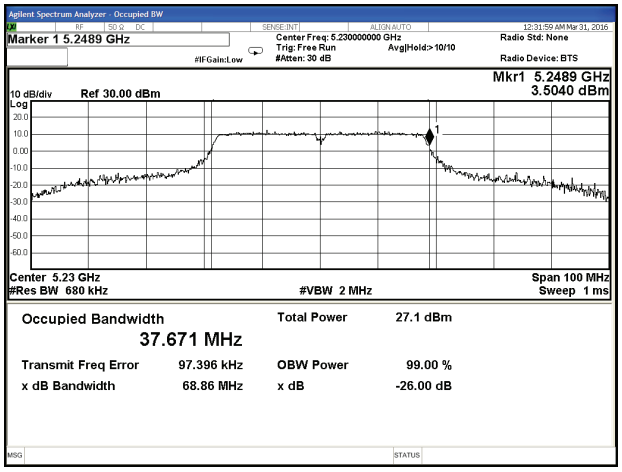
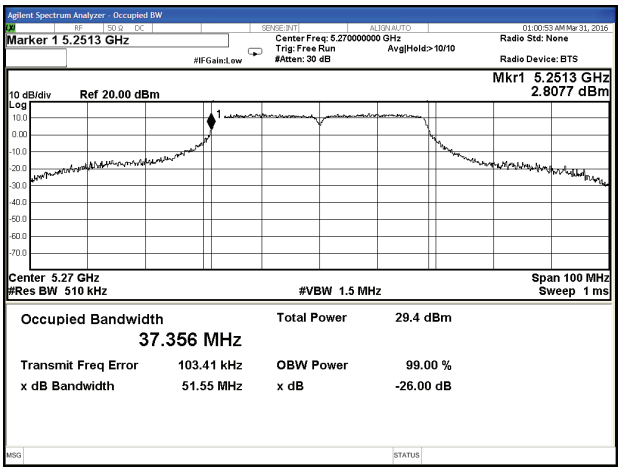
802.11n-HT40

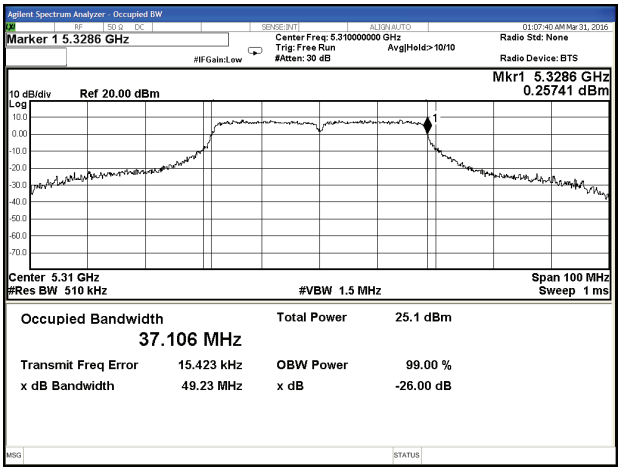
UNII Band I





UNII Band II-2A





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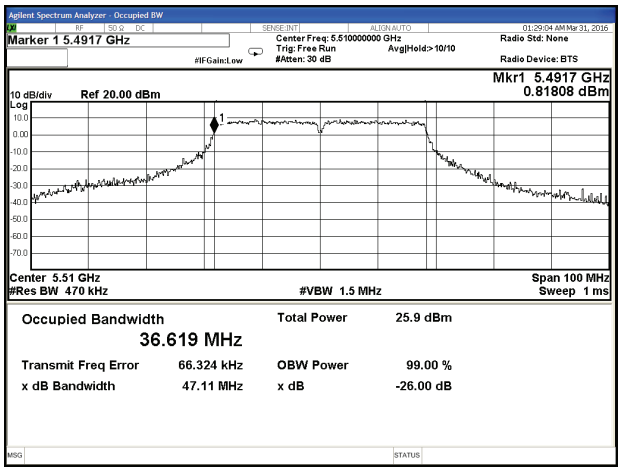
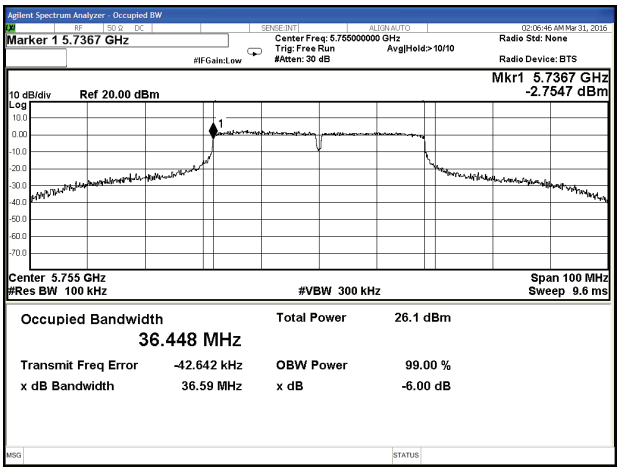
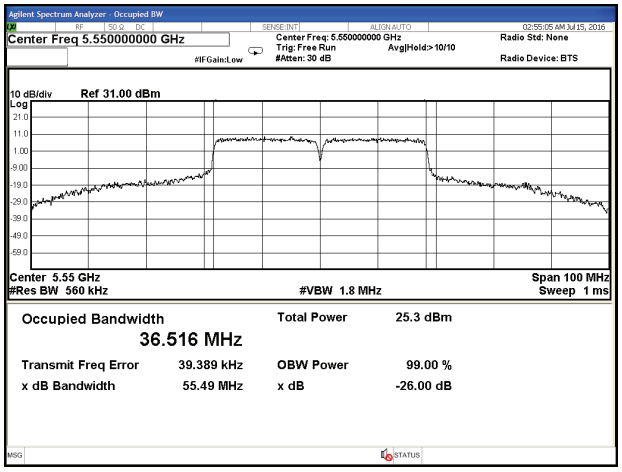
802.11n-HT40

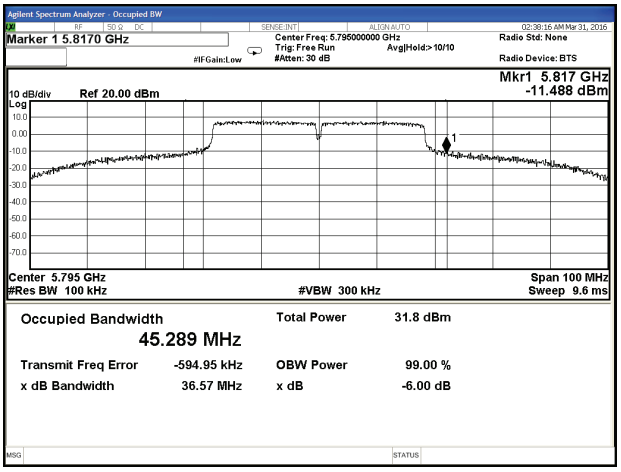
UNII Band II-2C

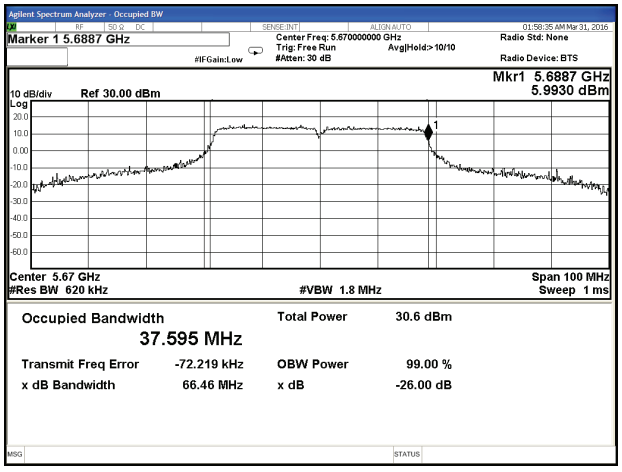


UNII Band III









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A.2 MAXIMUM OUTPUT POWER MEASUREMENT

A.2.1 Emission Bandwidth Result

Test Date	2016/03/26 ~ 07/15	Temp./Hum.	25℃/54%
Cable Loss	N/A	Test Voltage	DC 3.3V

Modulation Type	UNII Band	Centre Frequency (MHz)	Output Power		Limit
			(dBm)	(W)	
802.11a	I	5180	**20.02**	0.100	< 250 mW (24 dBm)
		5200	**18.29**	0.067	
		5240	**18.21**	0.066	
	II-2A	5260	**22.13**	0.163	< 250 mW (24 dBm)
		5300	**22.08**	0.161	
		5320	**20.74**	0.119	
	II-2C	5500	**20.91**	0.123	
		5580	**21.79**	0.151	
		5700	**19.14**	0.082	
	III	5745	**17.72**	0.059	< 1 W (30 dBm)
		5785	**21.26**	0.134	
		5825	**20.35**	0.108	

Note: The results have been included cable loss.

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Modulation Type	UNII Band	Centre Frequency (MHz)	Output Power (dBm) Chain 0	Output Power (dBm) Chain 1	Output Power (dBm) Total	Output Power (W)	Limit
802.11n-HT20	I	5180	19.81	19.34	**22.59**	0.182	<0.199 W (22.99 dBm) Note 2
		5200	19.42	19.51	**22.48**	0.177	
		5240	19.20	20.03	**22.65**	0.184	
	II-2A	5260	19.02	20.07	**22.59**	0.182	<0.199 W (22.99 dBm) Note 2
		5300	19.08	19.82	**22.48**	0.177	
		5320	19.23	20.13	**22.71**	0.187	
	II-2C	5500	19.07	19.79	**22.46**	0.176	
		5580	19.45	19.91	**22.70**	0.186	
		5700	18.62	19.14	**21.90**	0.155	
	III	5745	17.54	18.19	**20.89**	0.123	
		5785	18.80	19.55	**22.20**	0.166	< 0.793 W (28.99 dBm) Note 3
		5825	18.52	19.34	**21.96**	0.157	
802.11n-HT40	I	5190	14.66	14.02	**17.36**	0.054	<0.199 W (22.99 dBm) Note 2
		5230	19.54	19.87	**22.72**	0.187	
	II-2A	5270	19.01	19.72	**22.39**	0.173	<0.199 W (22.99 dBm) Note 2
		5310	17.97	19.39	**21.75**	0.150	
	II-2C	5510	15.58	16.44	**19.04**	0.080	
		5550	19.07	19.32	**22.21**	0.166	
		5670	19.03	19.22	**22.14**	0.164	
	III	5755	17.13	18.33	**20.78**	0.120	< 0.793 W (28.99 dBm) Note 3
		5795	20.56	21.08	**23.84**	0.242	

Note 1: The results have been included cable loss.
Note 2: 802.11n Directional gain is 7.01dBi > 6dBi, the Limit is 24 – (7.01-6) = 22.99 dBm
Note 3: 802.11n Directional gain is 7.01dBi > 6dBi, the Limit is 30 – (7.01-6) = 28.99 dBm

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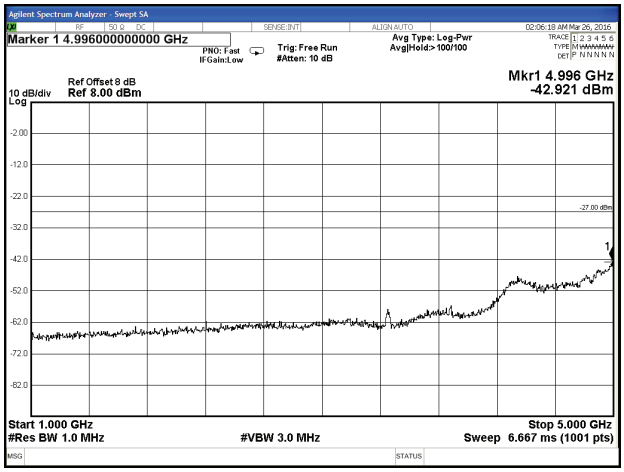
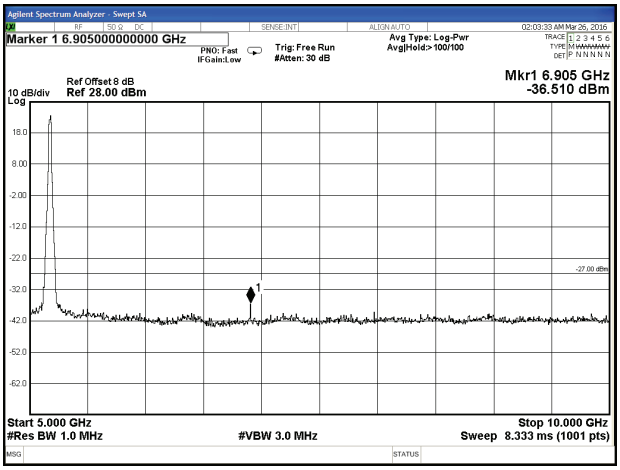
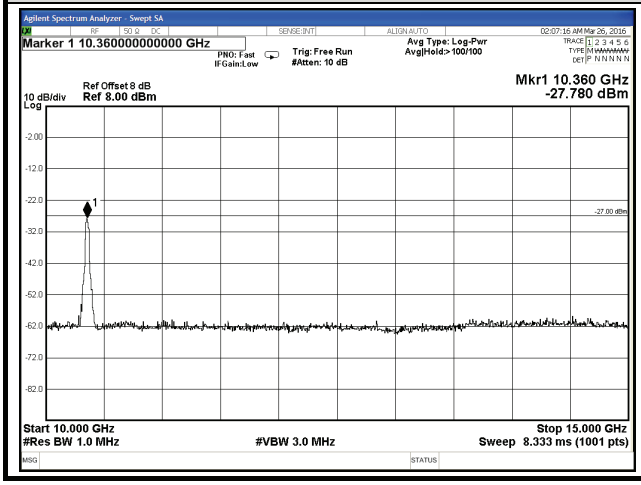
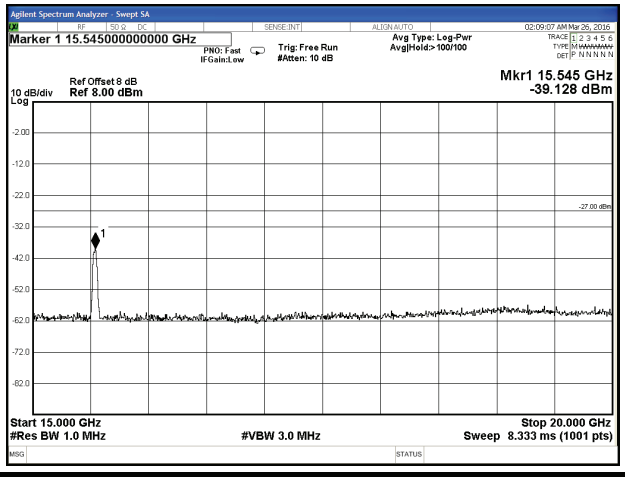
A.3 EMISSION LIMITATIONS MEASUREMENT

Test Date	2015/03/26	Temp./Hum.	25℃/54%
Mode	802.11a	UNII Band	I
		Frequency	TX 5180MHz
Cable Loss	8dB	Test Voltage	DC 3.3V
Simultaneous Factor 10 log(n) (Note: “n” is antenna number)		0	

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

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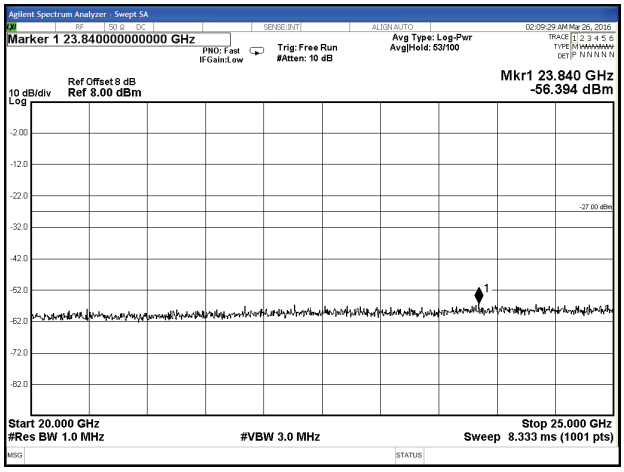
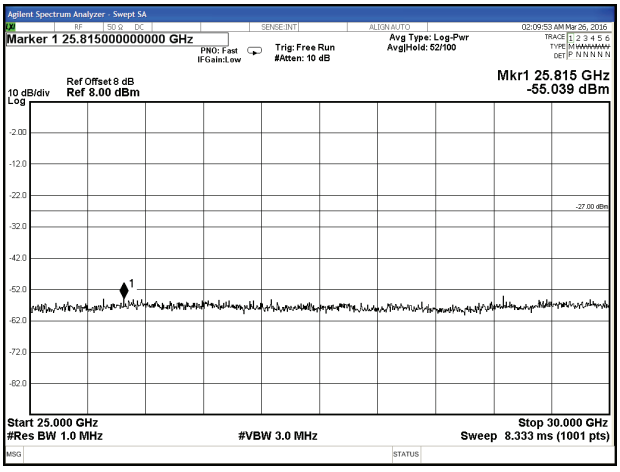
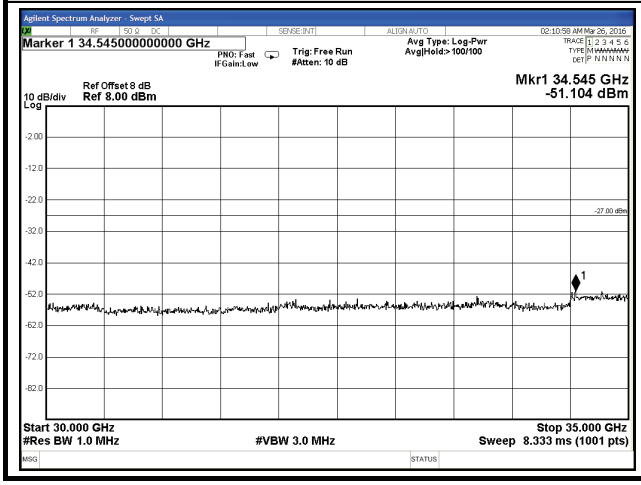
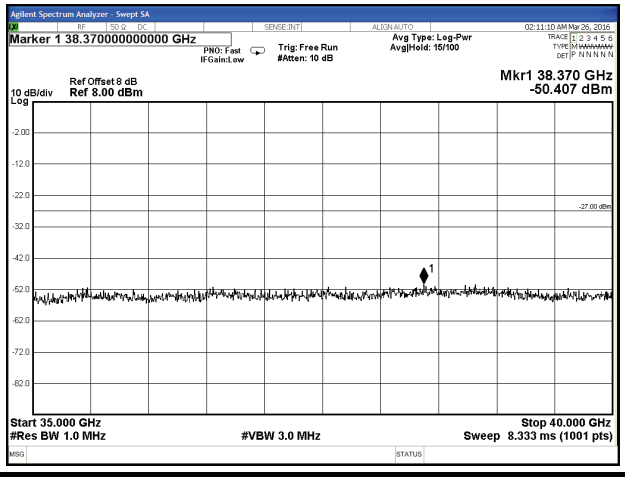
20GHz - 25GHz	25GHz – 30GHz
	
30GHz - 35GHz	**35GHz – 40GHz**
	

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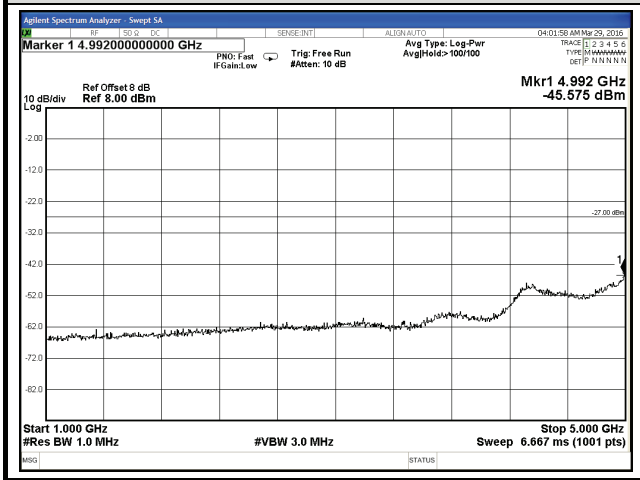
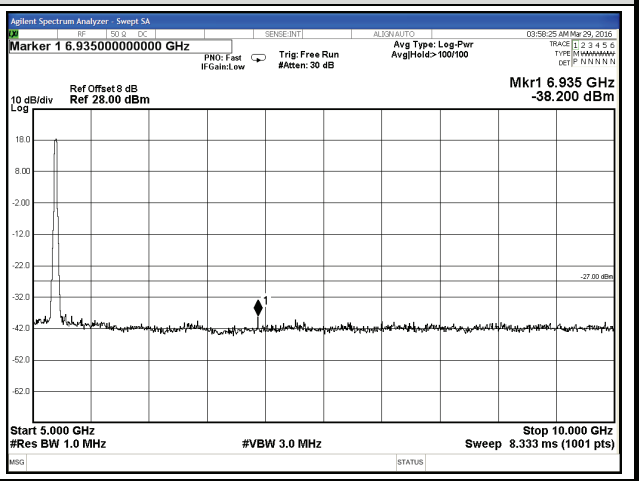
Test Date	2016/03/25	Temp./Hum.	25℃/54%
Mode	802.11a	UNII Band	I
		Frequency	TX 5200MHz
Cable Loss	8dB	Test Voltage	DC 3.3V
Simultaneous Factor 10 log(n) (Note: “n” is antenna number)		0	

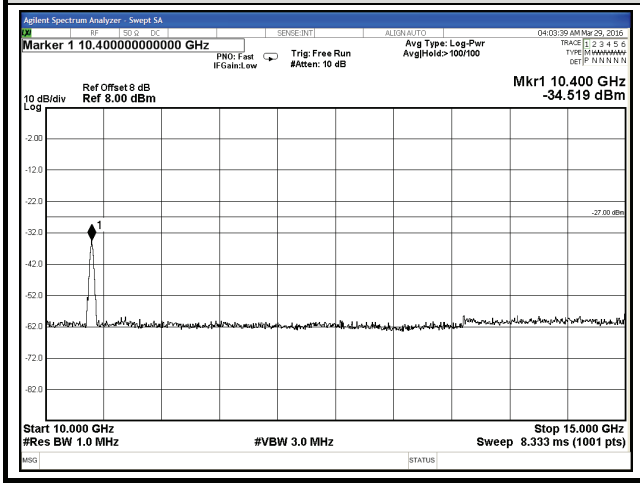
1GHz – 5GHz



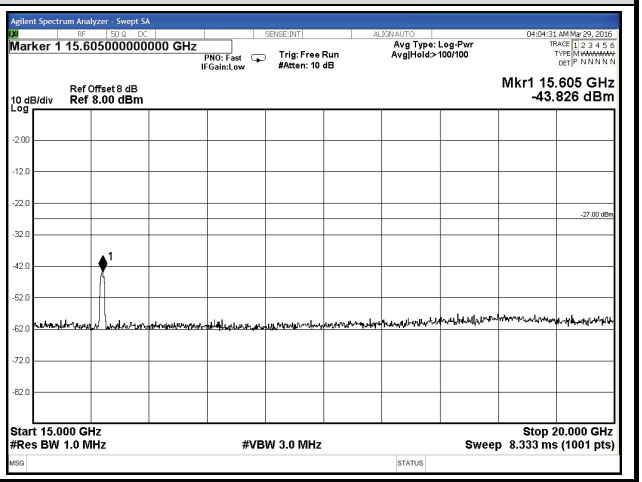
5GHz – 10GHz



10GHz – 15GHz



15GHz – 20GHz



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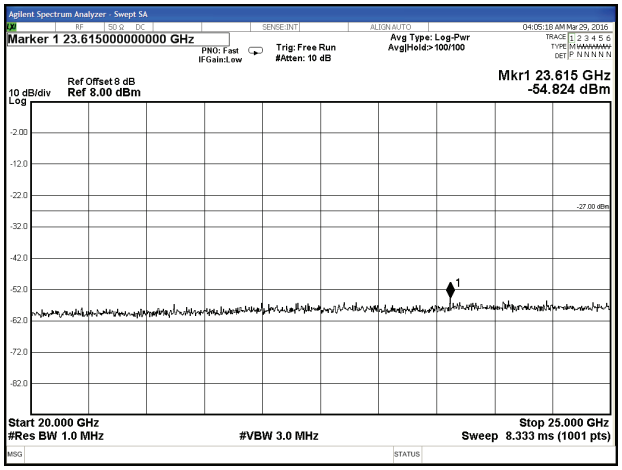
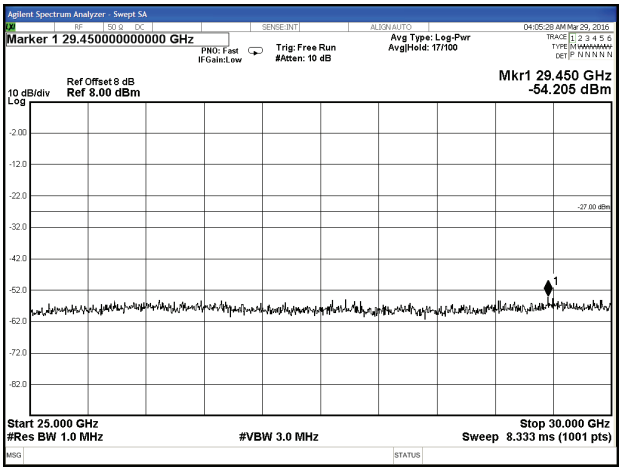
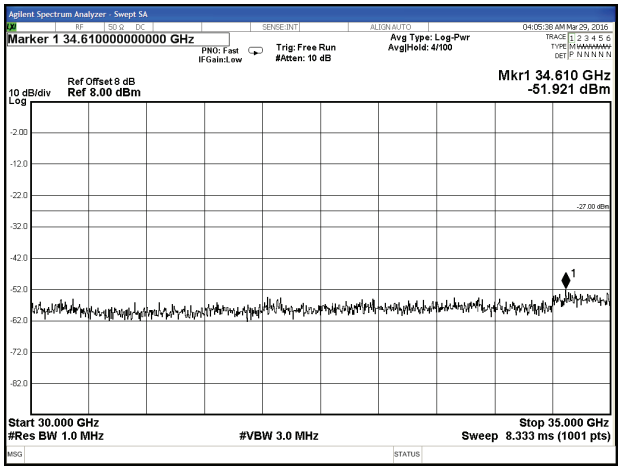
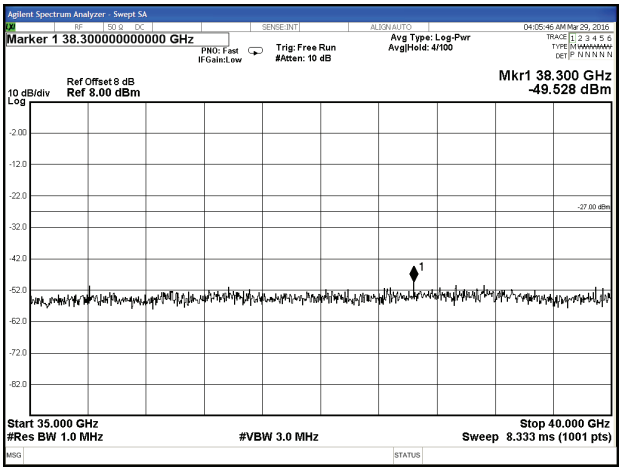
20GHz – 25GHz	25MHz – 30GHz
	
30GHz – 35GHz	35GHz - 40GHz
	

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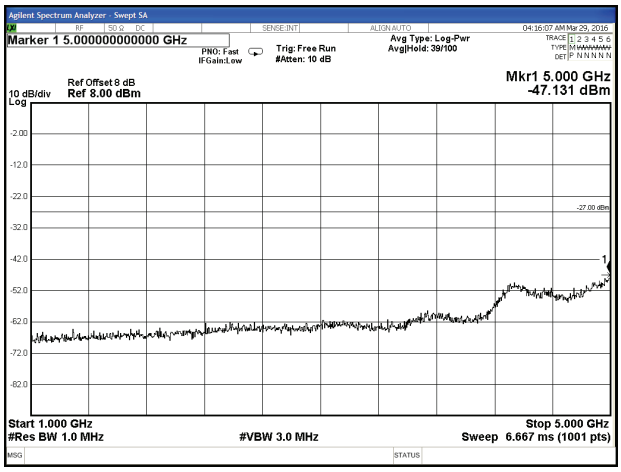
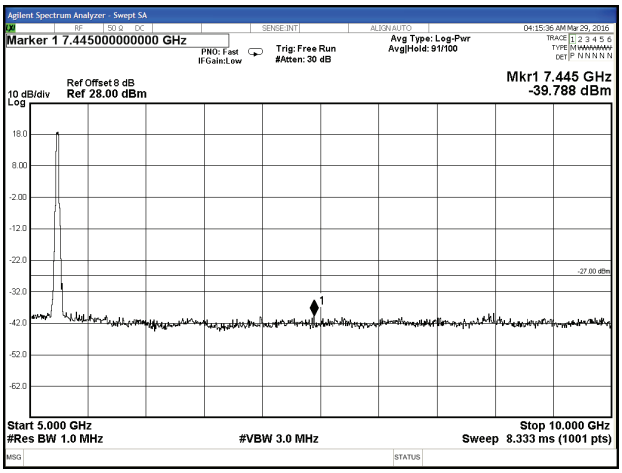
Test Date	2016/03/26	Temp./Hum.	25℃/54%
Mode	802.11a	UNII Band	I
		Frequency	TX 5240MHz
Cable Loss	8dB	Test Voltage	DC 3.3V
Simultaneous Factor 10 log(n) (Note: “n” is antenna number)		0	

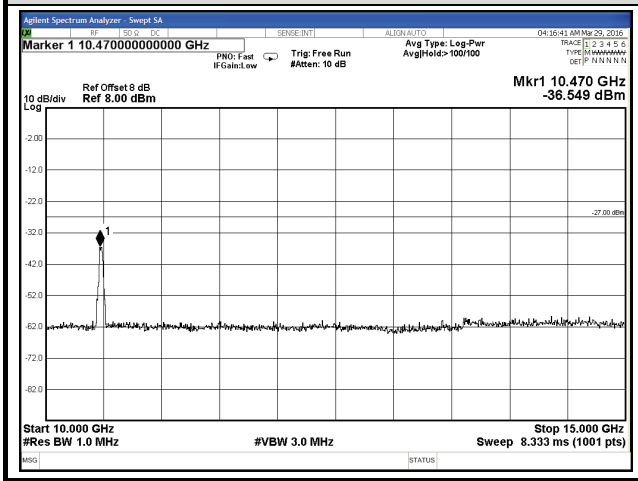
1GHz – 5GHz



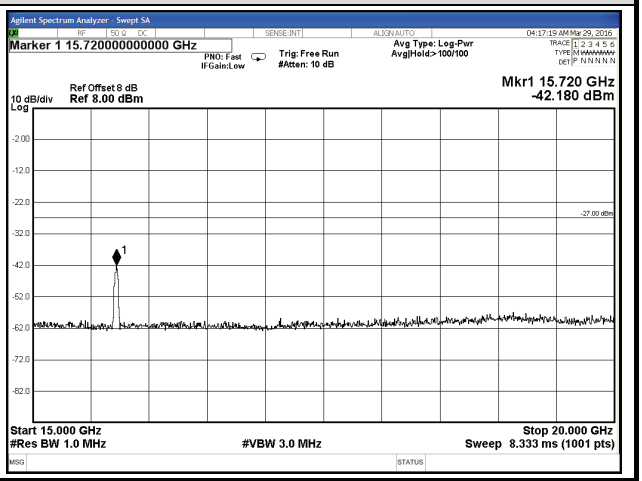
5GHz – 10GHz



10GHz – 15GHz



15GHz – 20GHz



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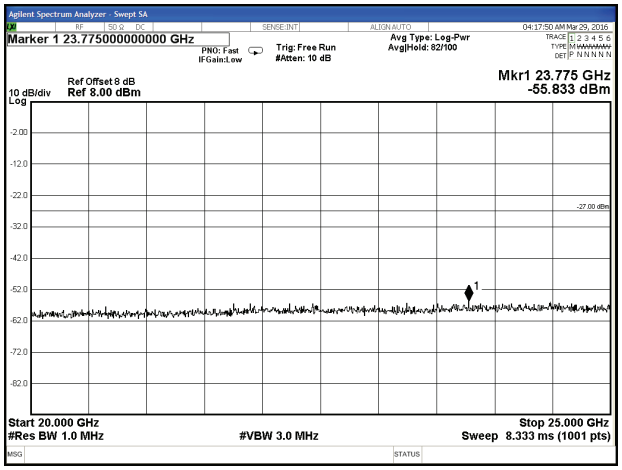
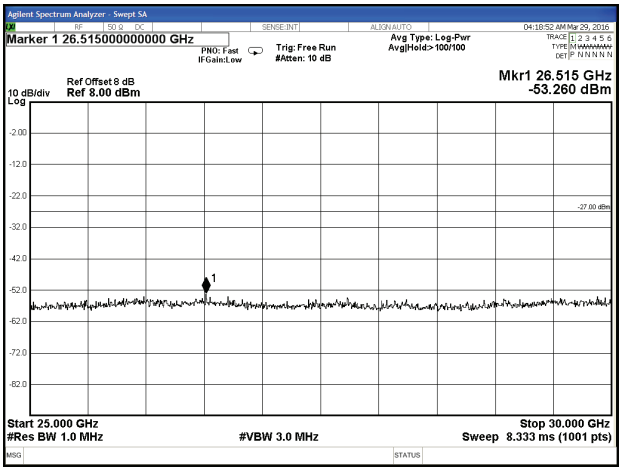
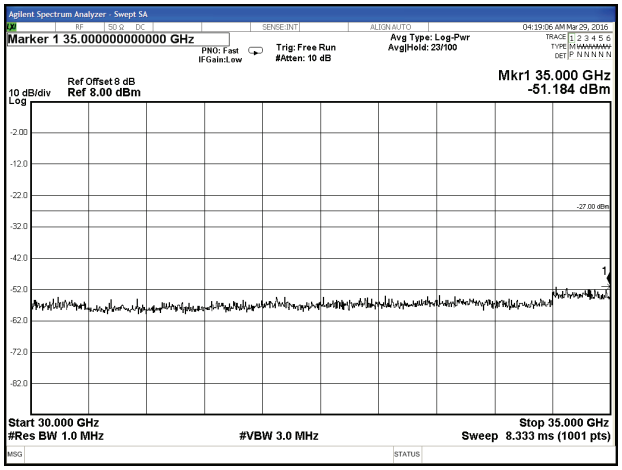
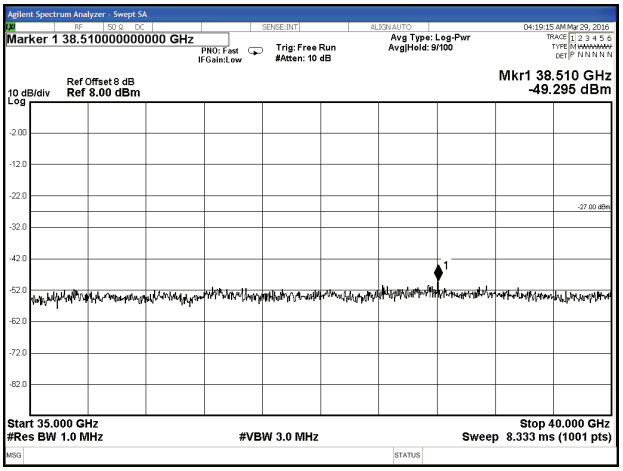
20GHz – 25GHz	25MHz – 30GHz
	
30GHz – 35GHz	35GHz - 40GHz
	

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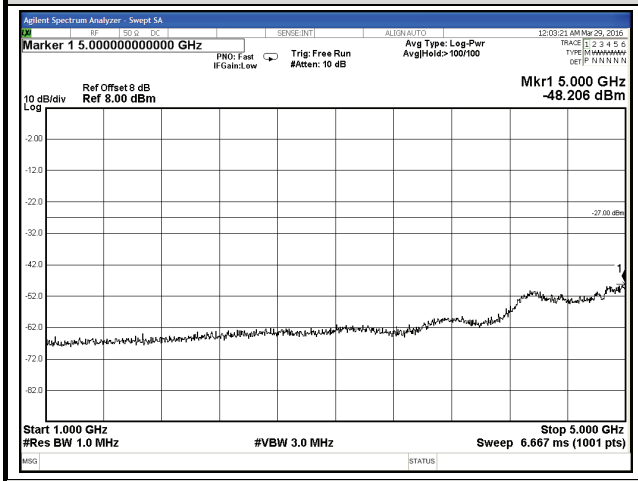
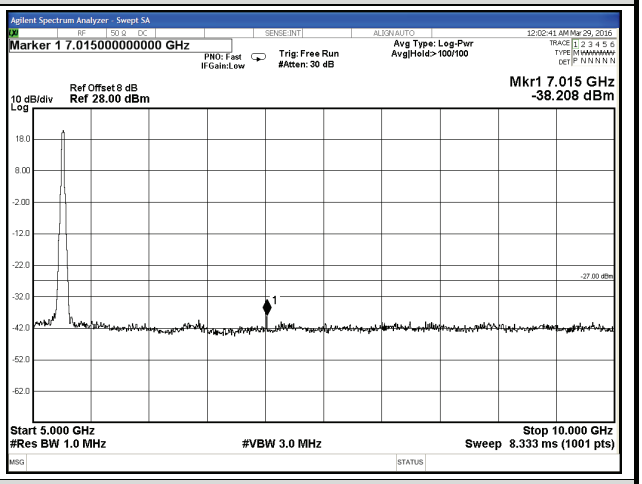
Test Date	2016/03/29	Temp./Hum.	25℃/54%
Mode	802.11a	UNII Band	II-2A
		Frequency	TX 5260MHz
Cable Loss	8dB	Test Voltage	DC 3.3V
Simultaneous Factor 10 log(n) (Note: “n” is antenna number)		0	

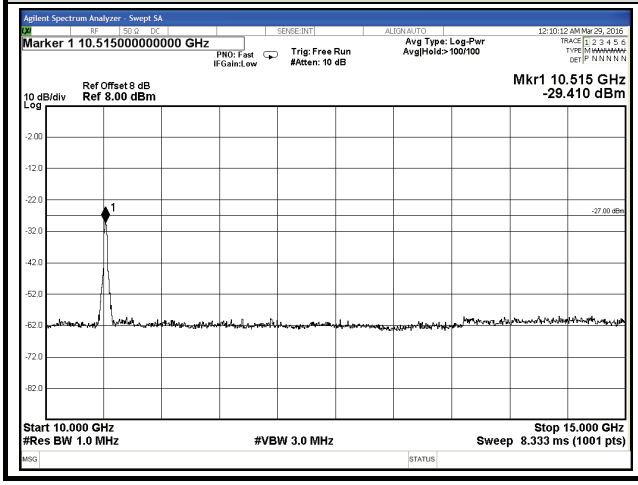
1GHz – 5GHz



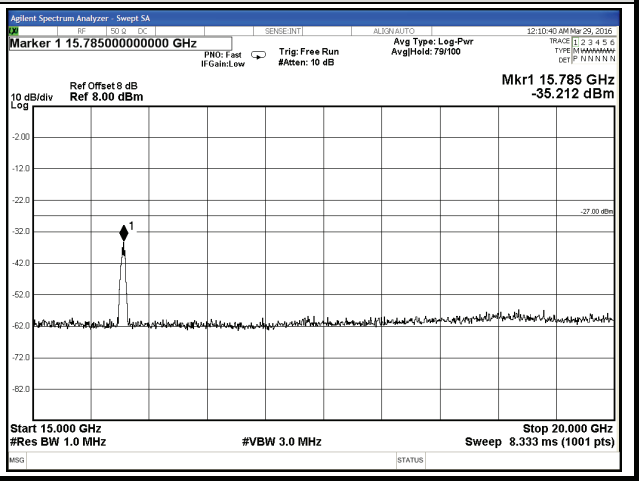
5GHz – 10GHz



10GHz – 15GHz



15GHz – 20GHz



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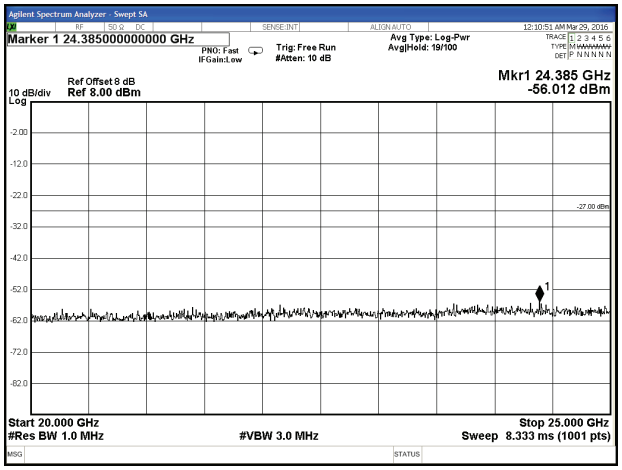
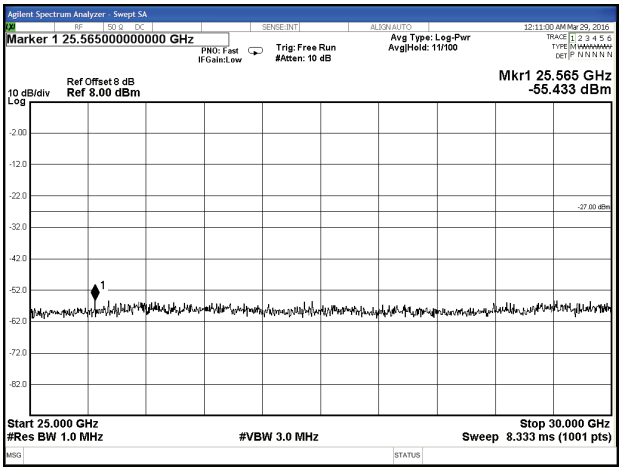
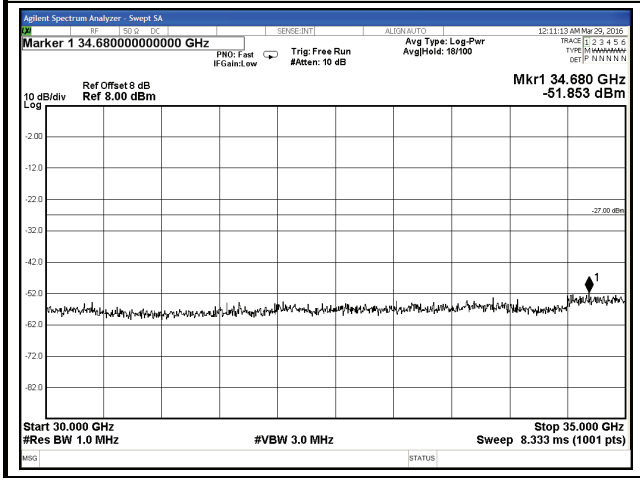
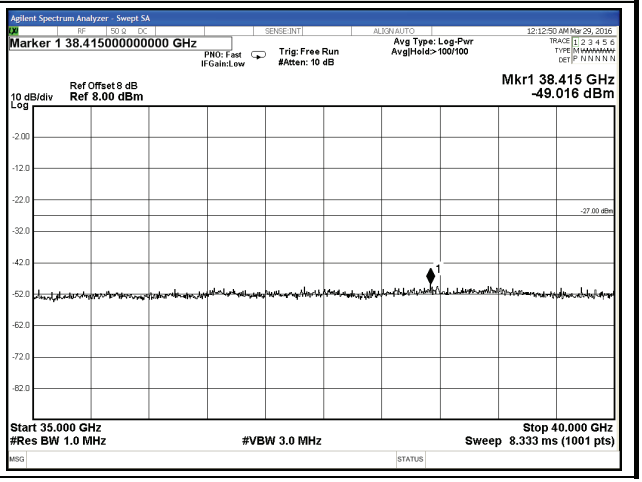
20GHz - 25GHz	25GHz – 30GHz
	
30GHz - 35GHz	35GHz – 40GHz
	

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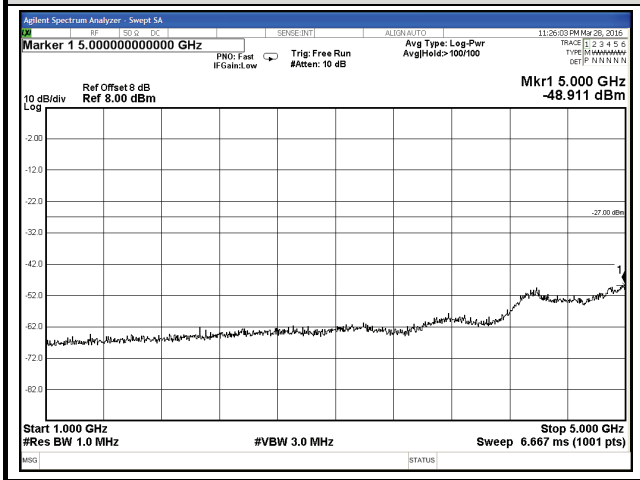
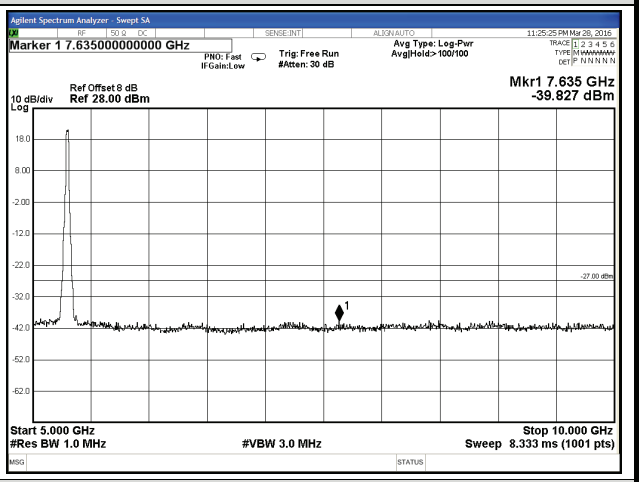
Test Date	2016/03/28	Temp./Hum.	25℃/54%
Mode	802.11a	UNII Band	II-2A
		Frequency	TX 5300MHz
Cable Loss	8dB	Test Voltage	DC 3.3V
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		0	

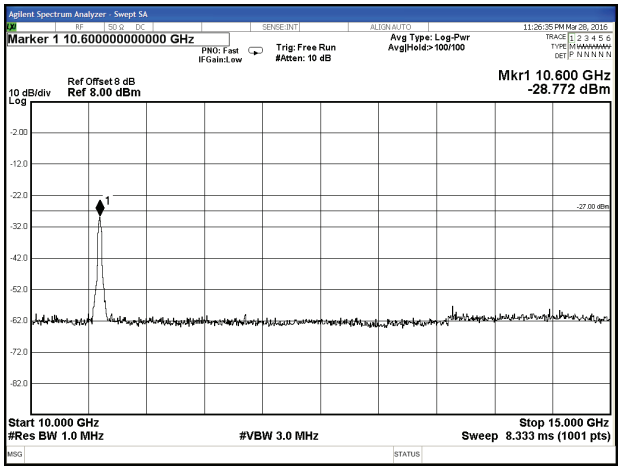
1GHz – 5GHz



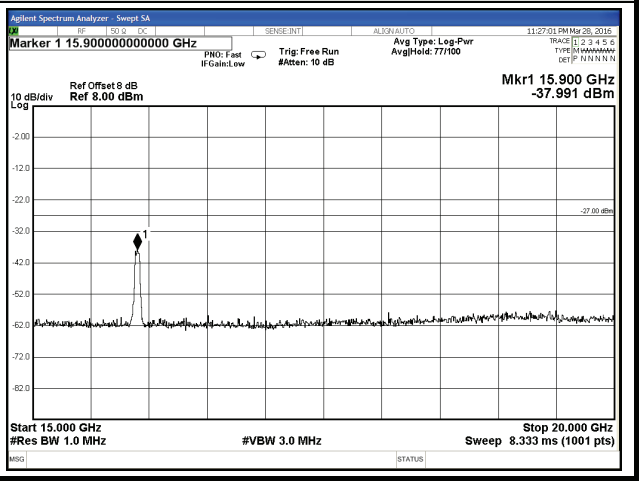
5GHz – 10GHz



10GHz – 15GHz



15GHz – 20GHz



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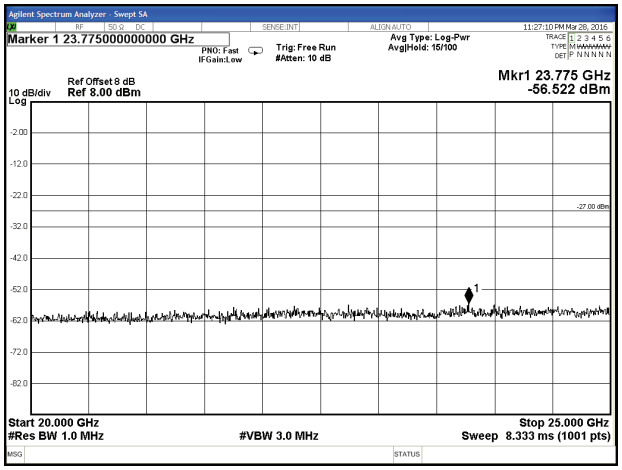
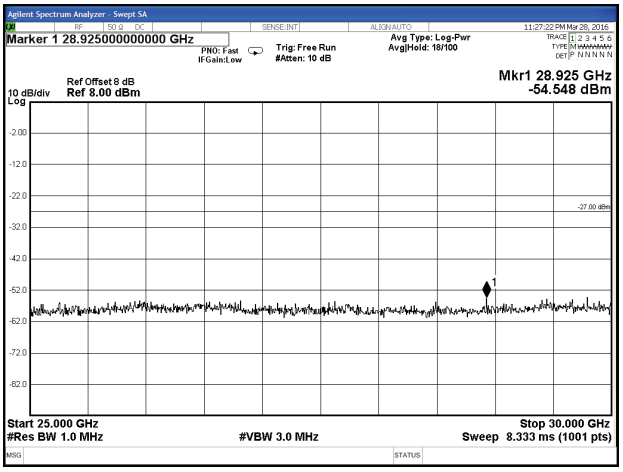
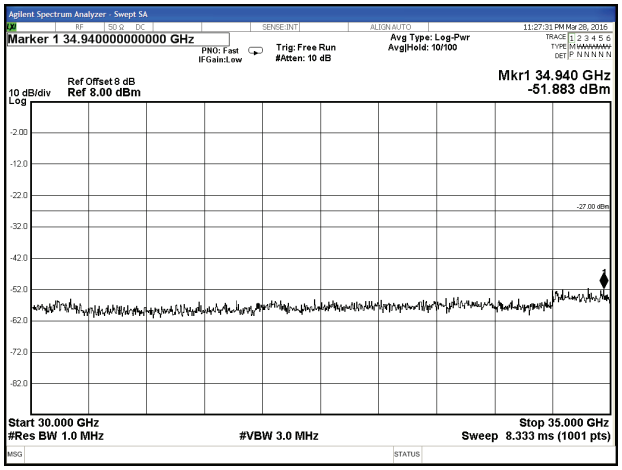
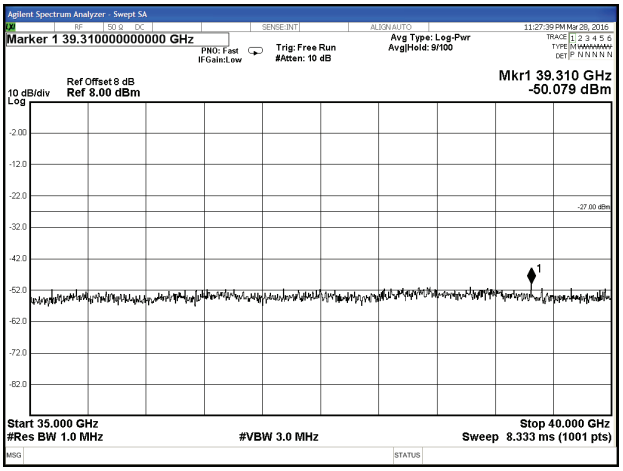
20GHz – 25GHz	25MHz – 30GHz
	
30GHz – 35GHz	**35GHz - 40GHz**
	

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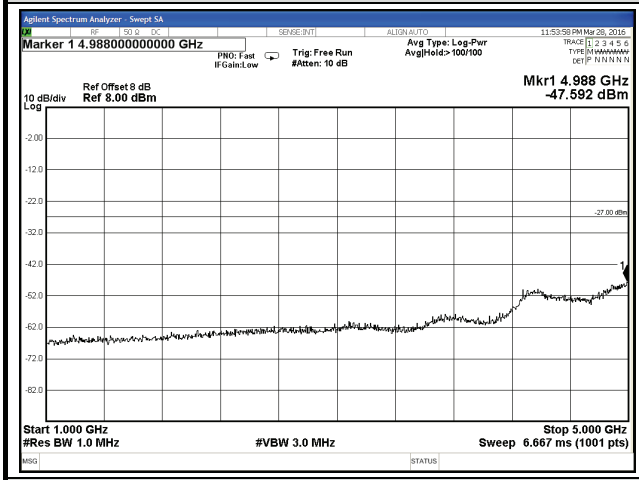
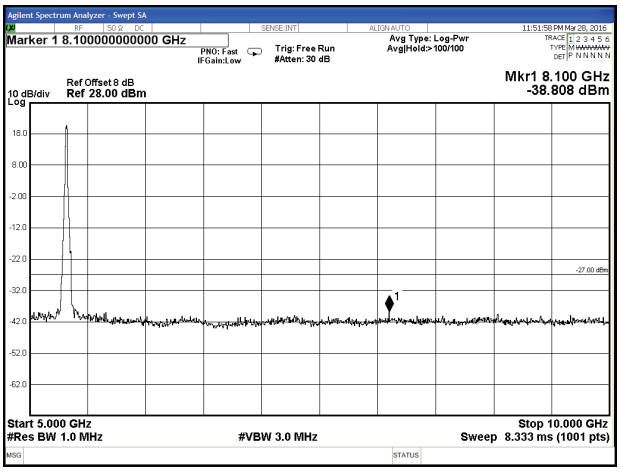
Test Date	2016/03/29	Temp./Hum.	25℃/54%
Mode	802.11a	UNII Band	II-2A
		Frequency	TX 5320MHz
Cable Loss	8dB	Test Voltage	DC 3.3V
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		0	

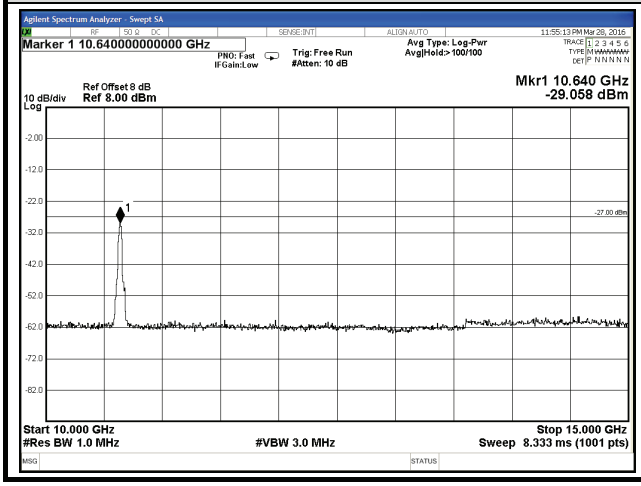
1GHz – 5GHz



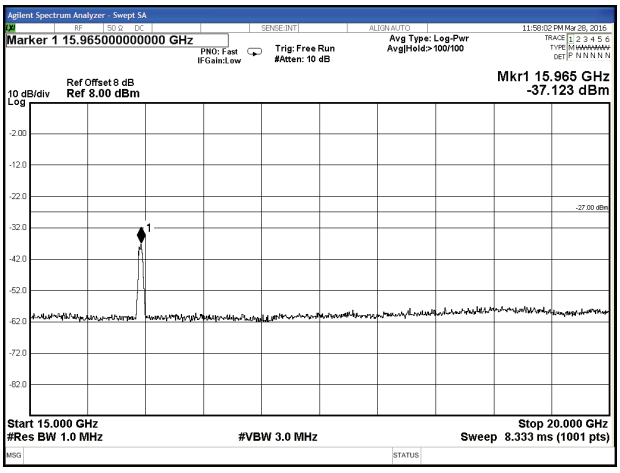
5GHz – 10GHz



10GHz – 15GHz



15GHz – 20GHz



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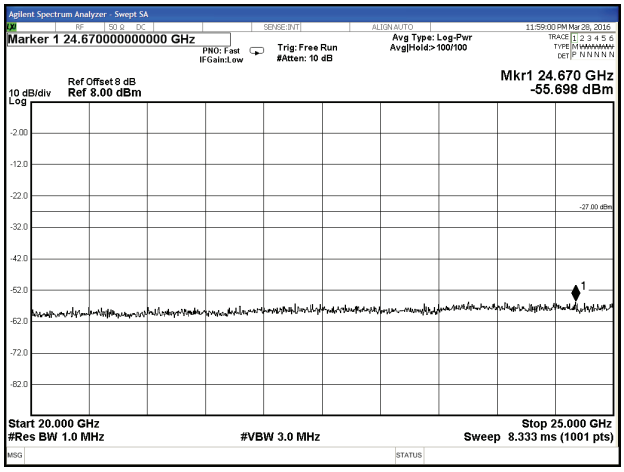
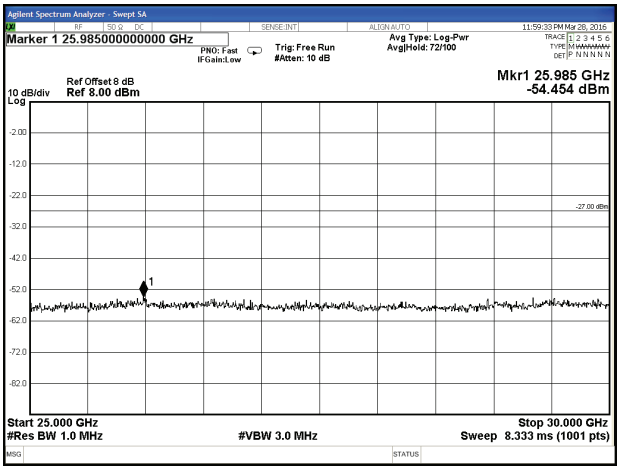
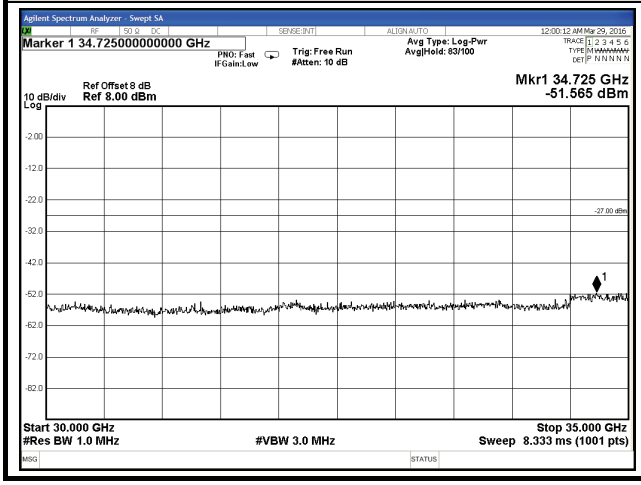
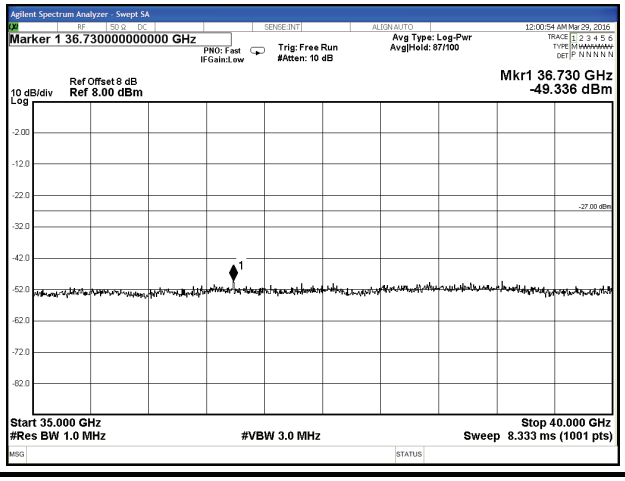
20GHz – 25GHz	25MHz – 30GHz
	
30GHz – 35GHz	**35GHz - 40GHz**
	

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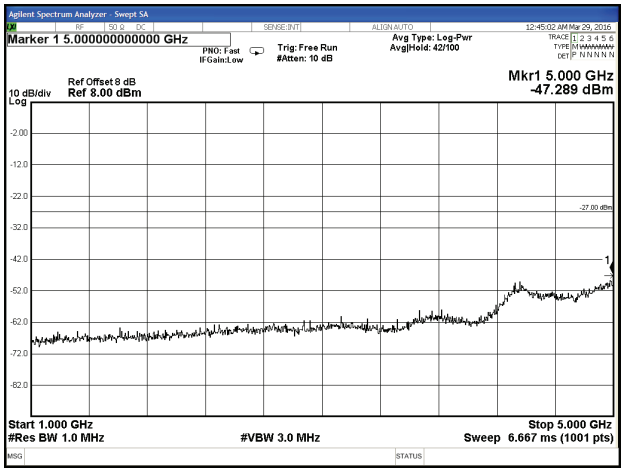
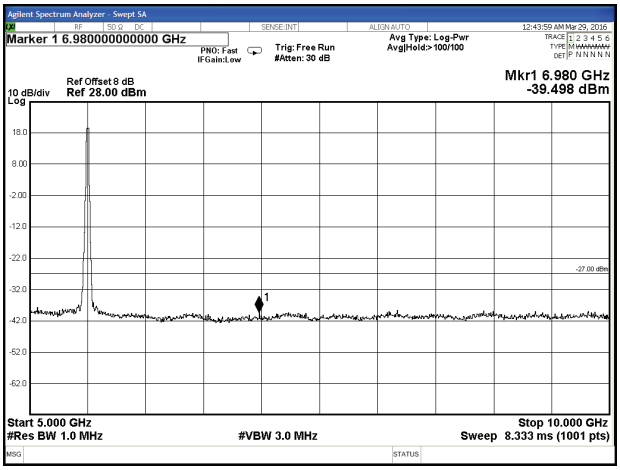
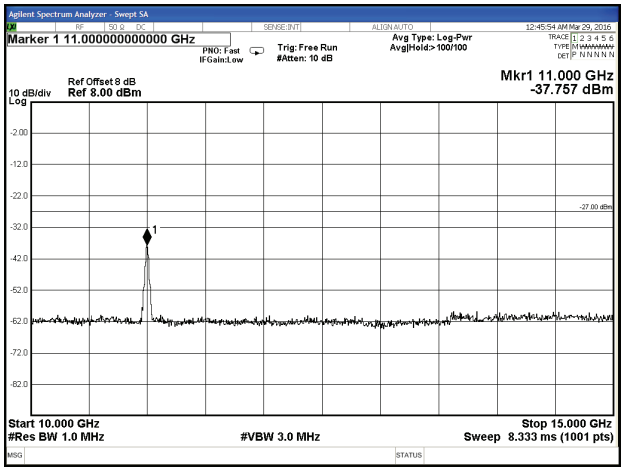
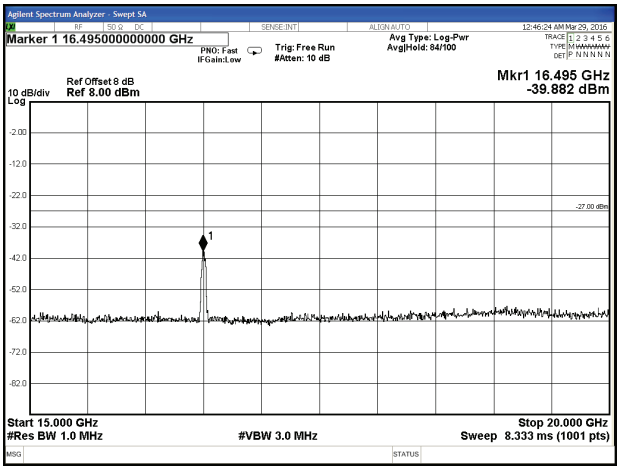
Test Date	2016/03/29	Temp./Hum.	25℃/54%
Mode	802.11a	UNII Band	II-2C
		Frequency	TX 5500MHz
Cable Loss	8dB	Test Voltage	DC 3.3V
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		0	

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

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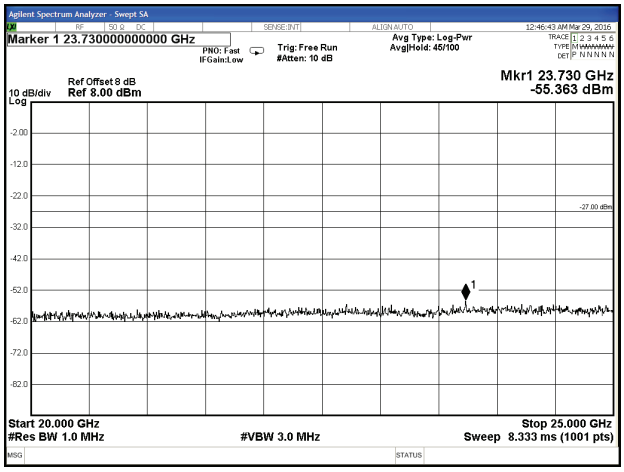
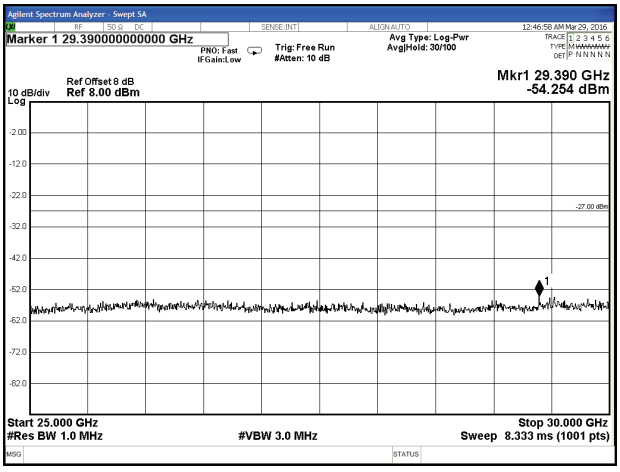
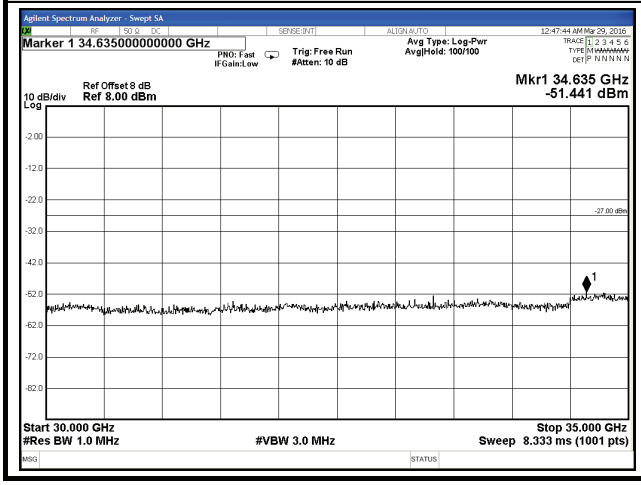
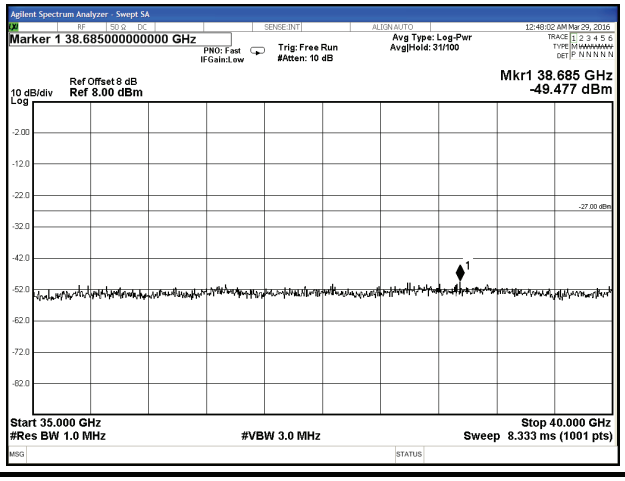
20GHz - 25GHz	25GHz – 30GHz
	
30GHz - 35GHz	**35GHz – 40GHz**
	

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New Taipei City244, Taiwan

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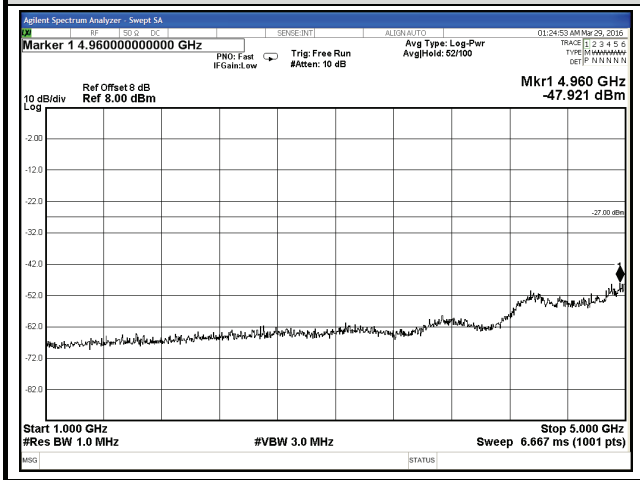
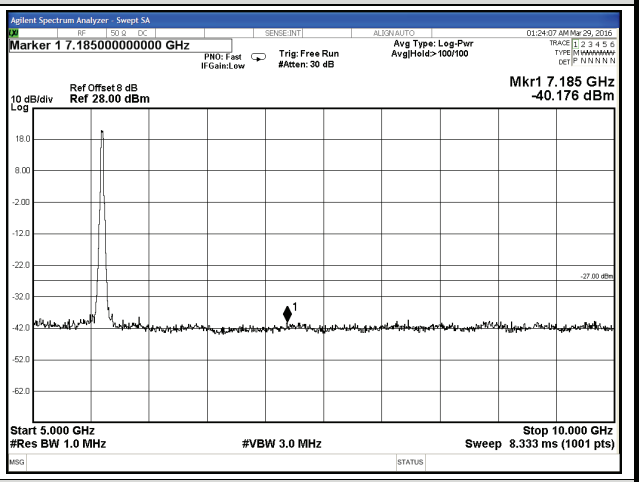
Test Date	2016/03/29	Temp./Hum.	25℃/54%
Mode	802.11a	UNII Band	II-2C
		Frequency	TX 5580MHz
Cable Loss	8dB	Test Voltage	DC 3.3V
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		0	

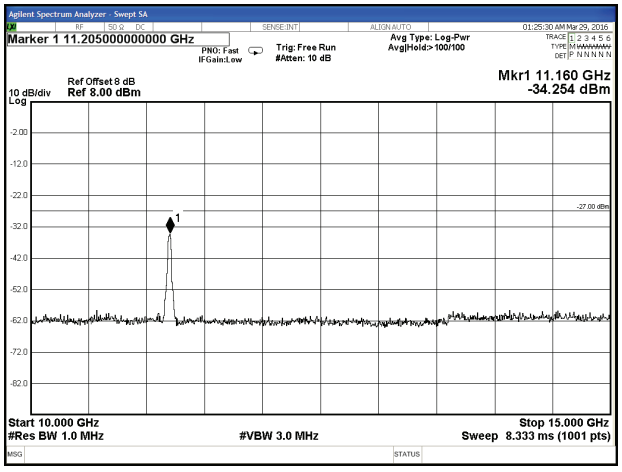
1GHz – 5GHz



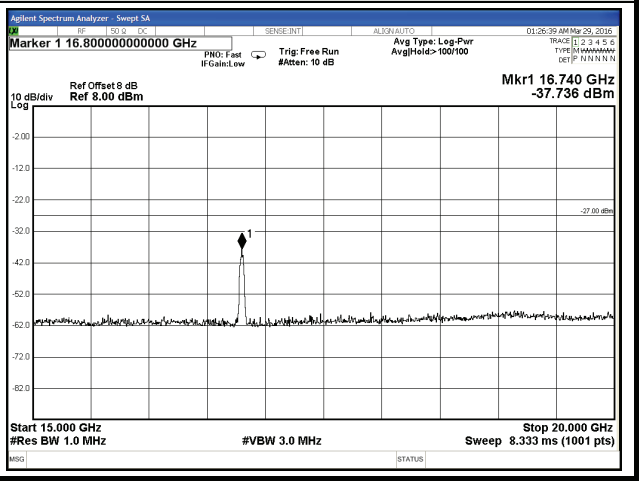
5GHz – 10GHz



10GHz – 15GHz



15GHz – 20GHz



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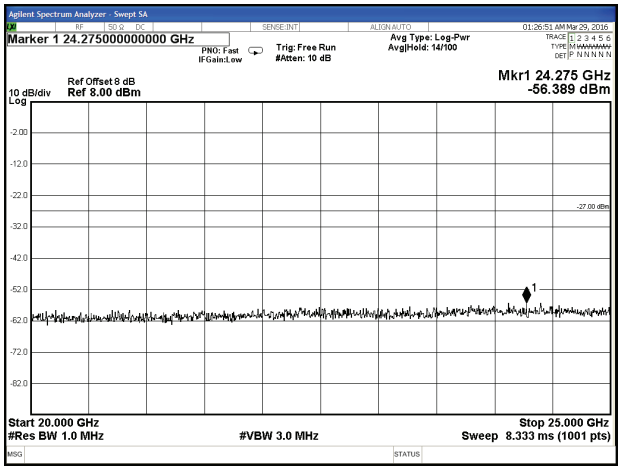
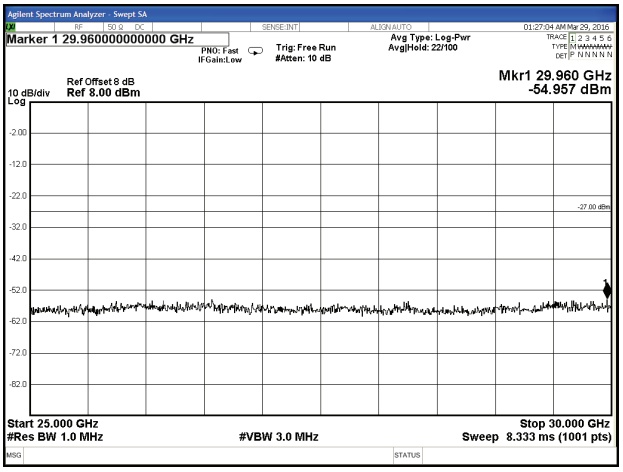
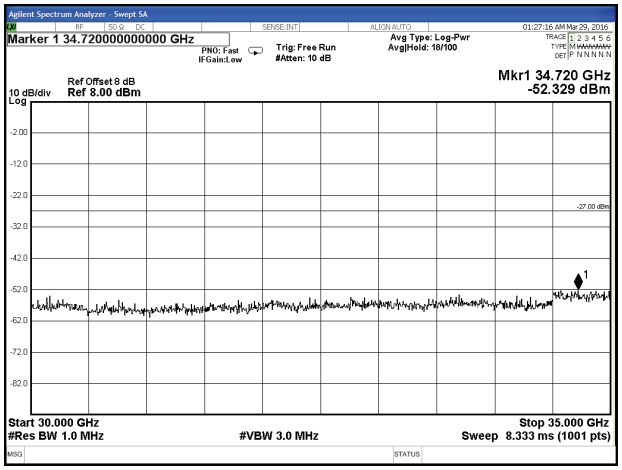
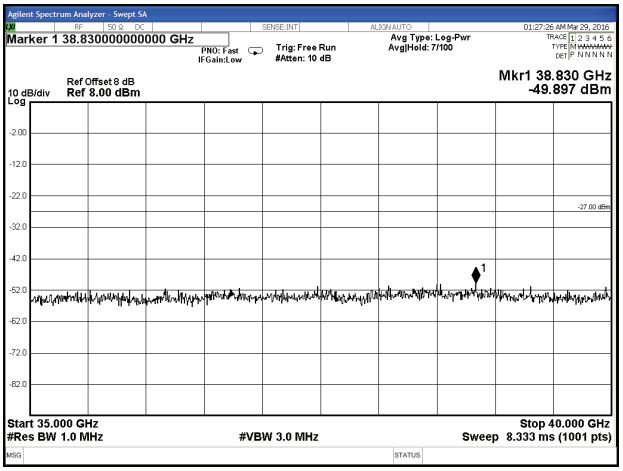
20GHz – 25GHz	25MHz – 30GHz
	
30GHz – 35GHz	**35GHz - 40GHz**
	

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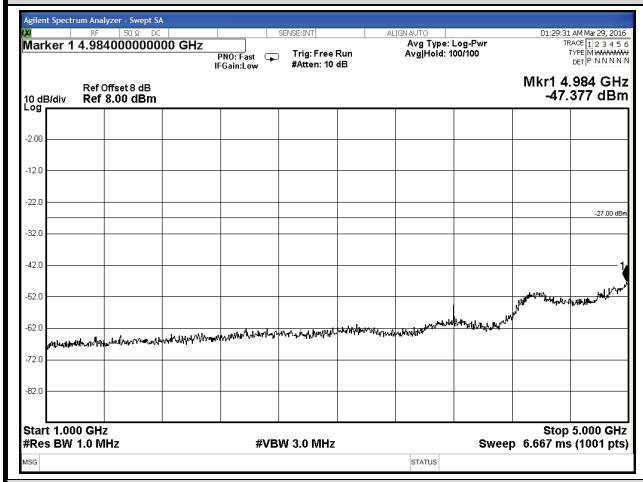
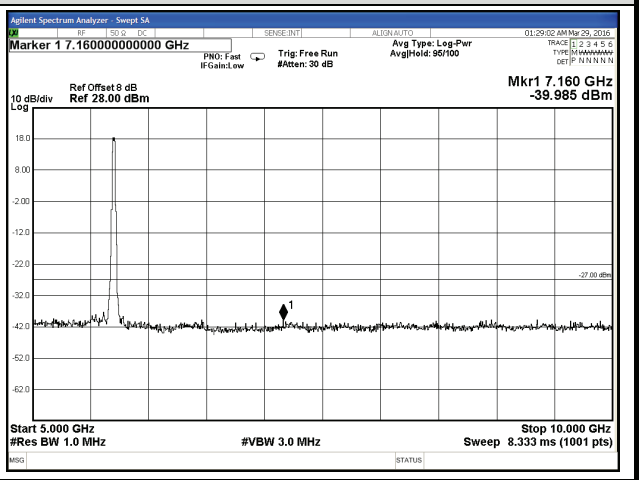
Test Date	2016/03/29	Temp./Hum.	25℃/54%
Mode	802.11a	UNII Band	II-2C
		Frequency	TX 5700MHz
Cable Loss	8dB	Test Voltage	DC 3.3V
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		0	

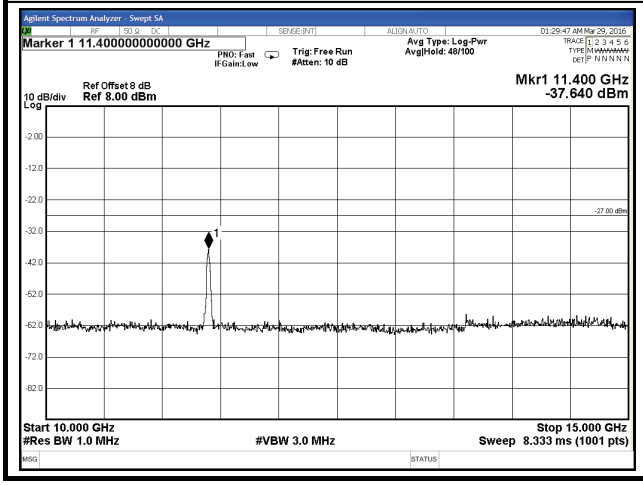
1GHz – 5GHz



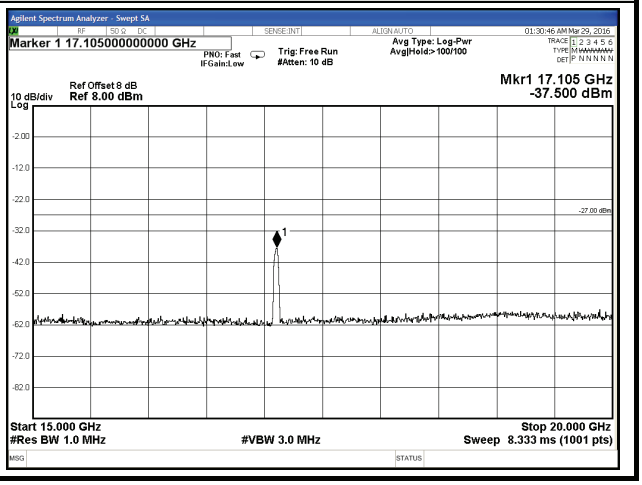
5GHz – 10GHz



10GHz – 15GHz



15GHz – 20GHz



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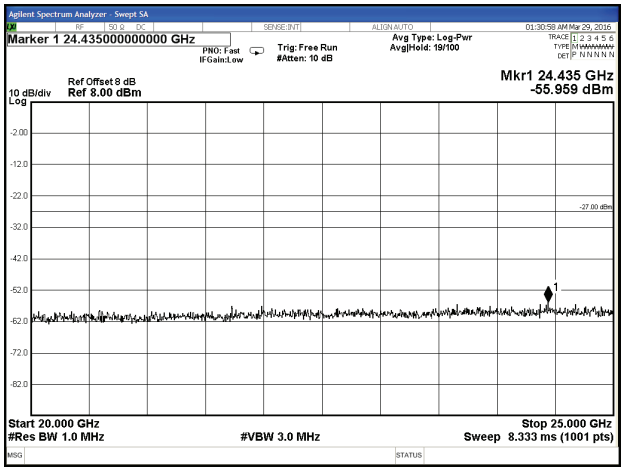
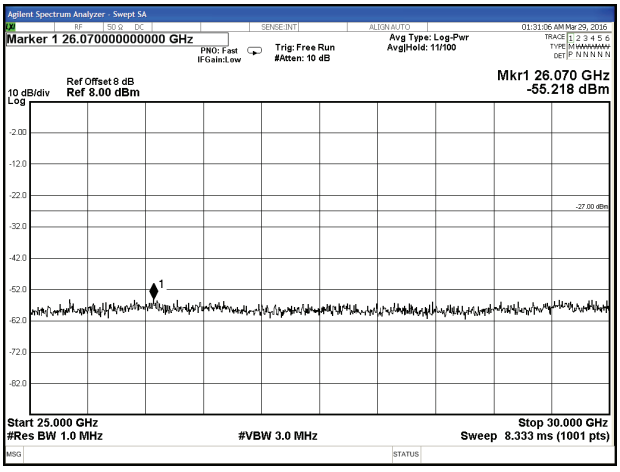
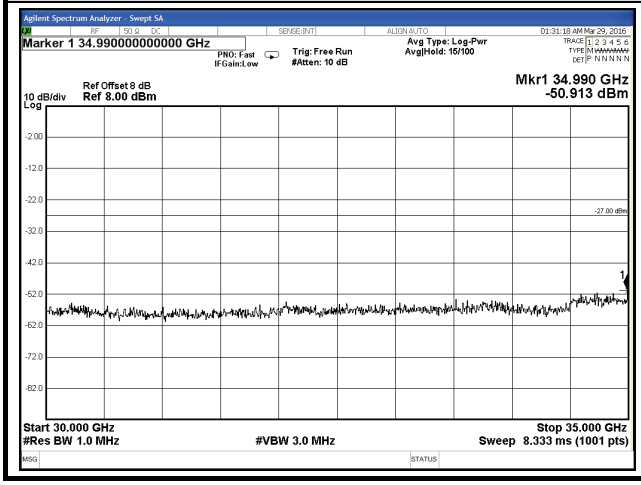
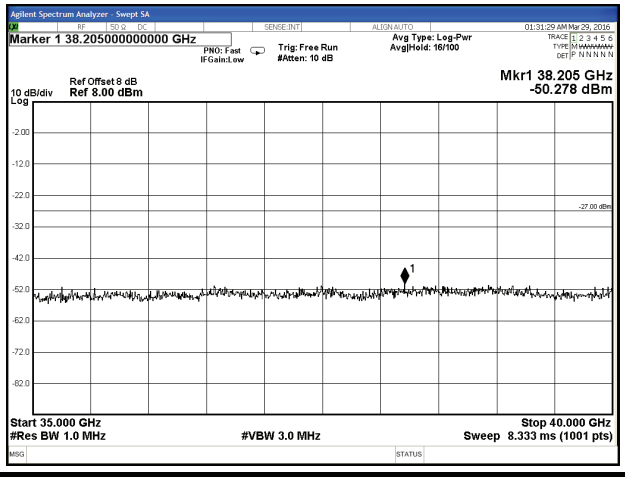
20GHz - 25GHz	25GHz – 30GHz
	
30GHz - 35GHz	**35GHz – 40GHz**
	

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