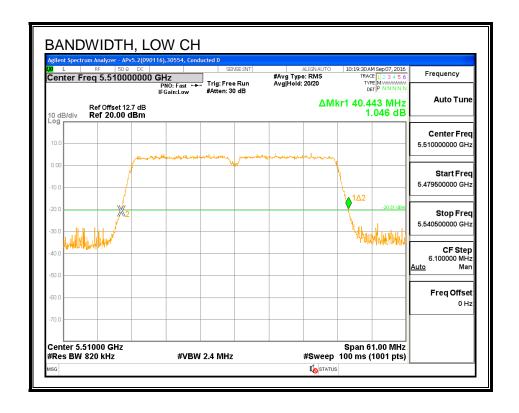
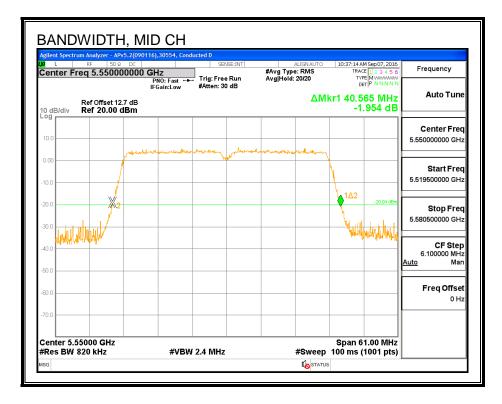
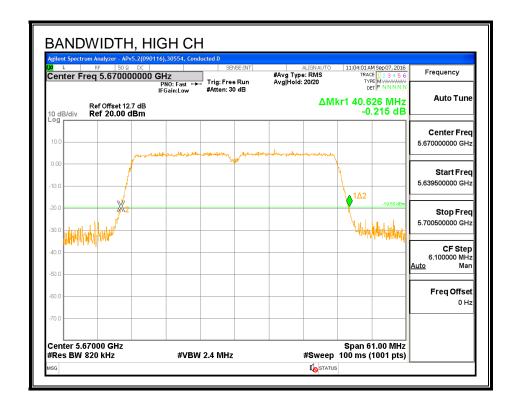
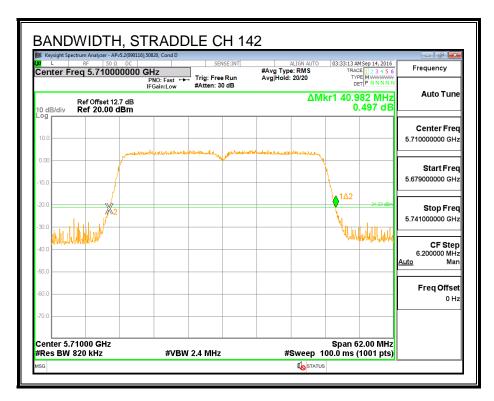
26 dB BANDWIDTH, CHAIN 1

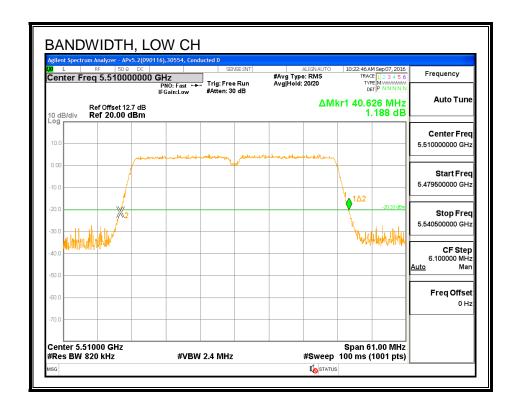


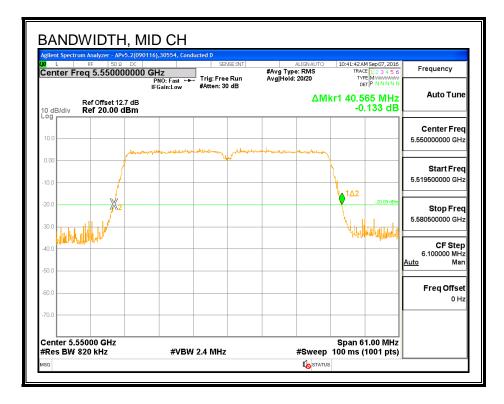


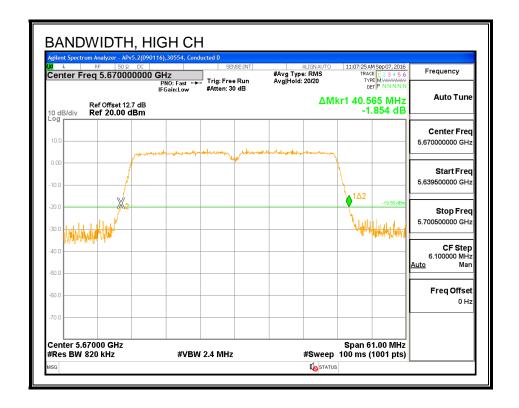


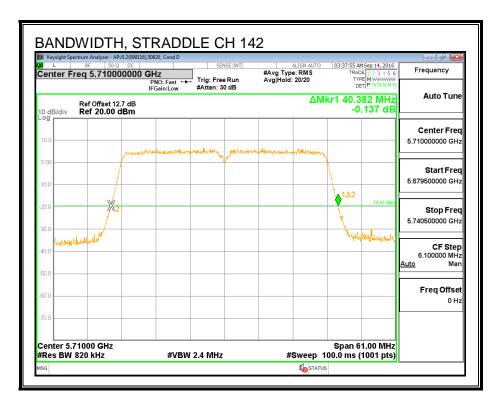


26 dB BANDWIDTH, CHAIN 2









8.70.2. **99% BANDWIDTH**

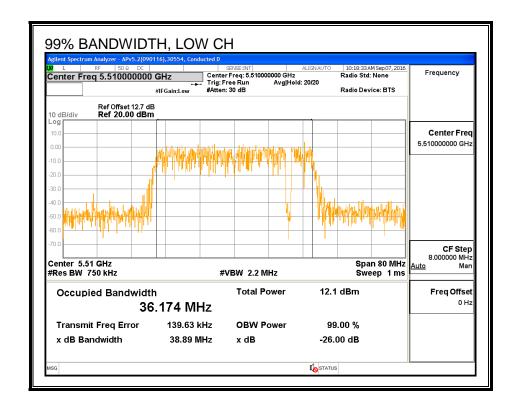
LIMITS

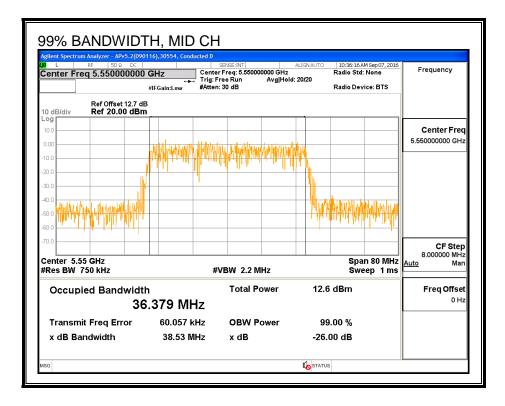
None; for reporting purposes only.

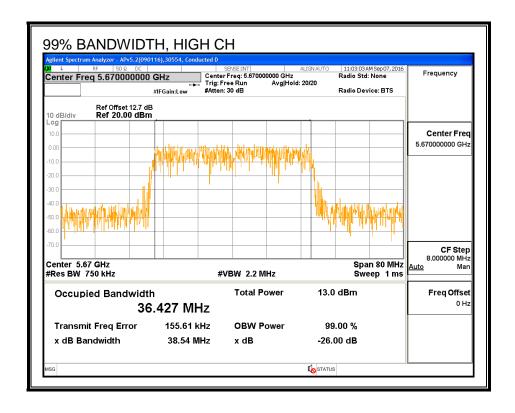
RESULTS

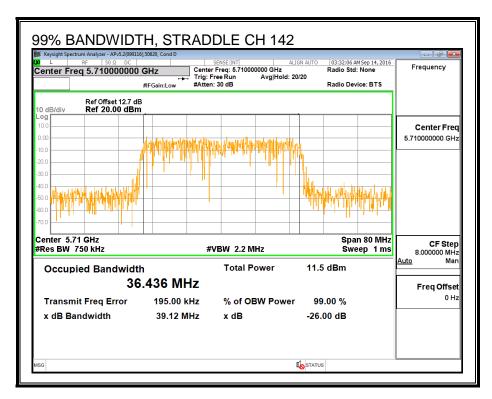
Channel	Frequency	99% BW	99% BW	
		Chain 1	Chain 2	
	(MHz)	(MHz)	(MHz)	
Low	5510	36.174	36.367	
Mid	5550	36.379	36.205	
High	5670	36.427	36.428	
142	5710	36.436	36.387	

99% BANDWIDTH, CHAIN 1

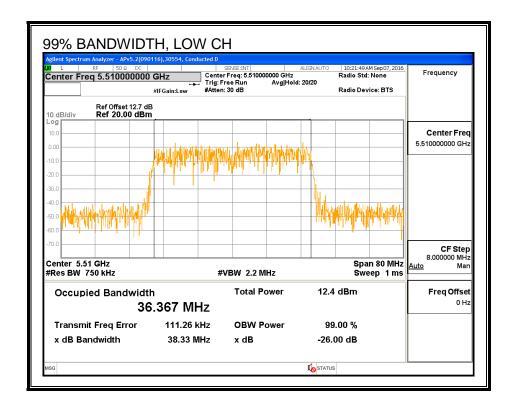


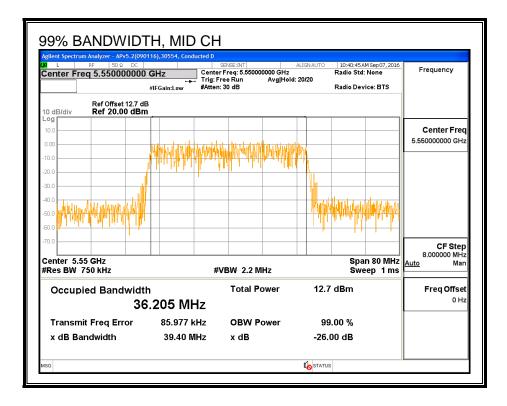


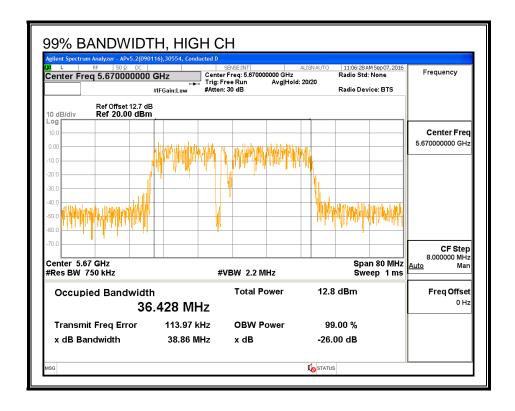


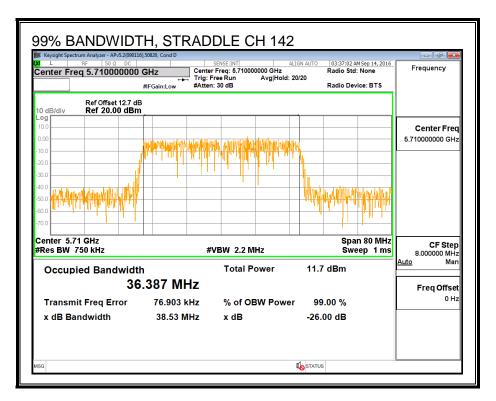


99% BANDWIDTH, CHAIN 2









8.70.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

RESULTS

ID:	43573	Date:	9/7/16
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Average Power Results

Channel	Frequency	Chain 1	Chain 2	Total
		Power	Power	Power
	(MHz)	(dBm)	(dBm)	(dBm)
Low	5510	11.94	11.91	14.94
Mid	5550	12.22	12.21	15.23
High	5670	12.18	12.89	15.56
142	5710	11.88	12.19	15.05

8.70.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

IC RSS-247 (6.2.3) (1)

The maximum conducted output power shall not exceed 250 mW or 11 + 10 log10B, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log10B, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Straddle channel power is measured using PXA spectrum analyzer, duty cycle correction factor is required.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain 1	Chain 2	Uncorrelated Chains
Antenna	Antenna	Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
7.40	5.20	6.44

REPORT NO: 16U23800-E4V2 DATE: OCTOBER 13, 2016 IC: 579C-A1707 FCC ID: BCGA1707

RESULTS

ID:	43573	Date:	9/7/16
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Bandwidth, Antenna Gain and Limits

Channel	Frequency	Min	Min	Directional	Directional	Power	PSD
		26 dB	99%	Gain	Gain	Limit	Limit
		BW	BW	for Power	for PSD		
	(MHz)	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm)
Low	5510	40.44	36.174	6.44	6.44	24.00	10.56
Mid	5550	40.57	36.205	6.44	6.44	24.00	10.56
High	5670	40.57	36.427	6.44	6.44	24.00	10.56

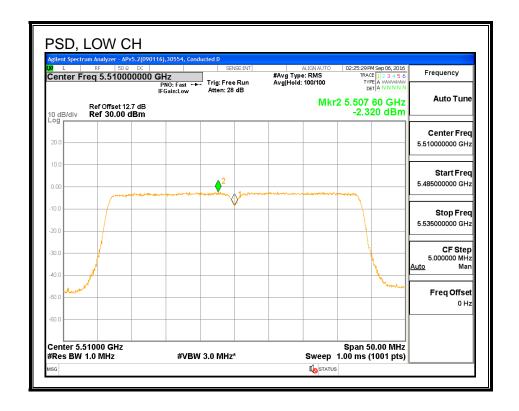
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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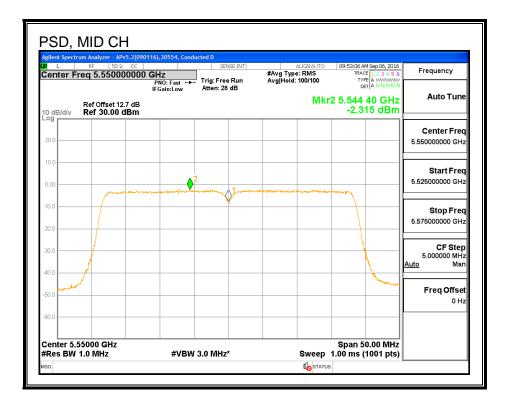
Output Power Results

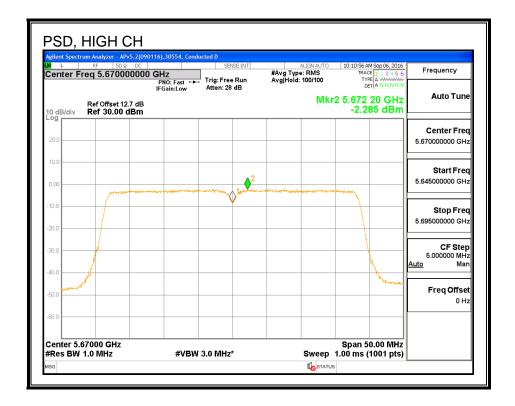
Channel	Frequency	Chain 1	Chain 2	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5510	11.94	11.91	14.94	24.00	-9.06
Mid	5550	12.22	12.21	15.23	24.00	-8.77
High	5670	12.18	12.89	15.56	24.00	-8.44

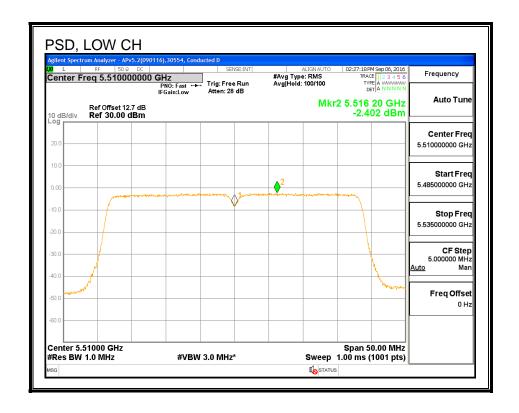
PSD Results

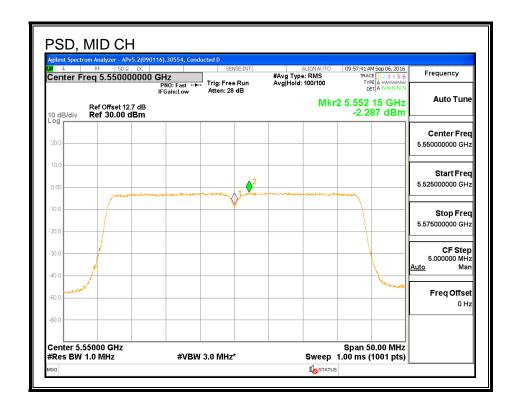
Channel	Frequency	Chain 1	Chain 2	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5510	-2.32	-2.402	0.65	10.56	-9.91
Mid	5550	-2.315	-2.287	0.71	10.56	-9.85
High	5670	2.285	-2.168	3.62	10.56	-6.94

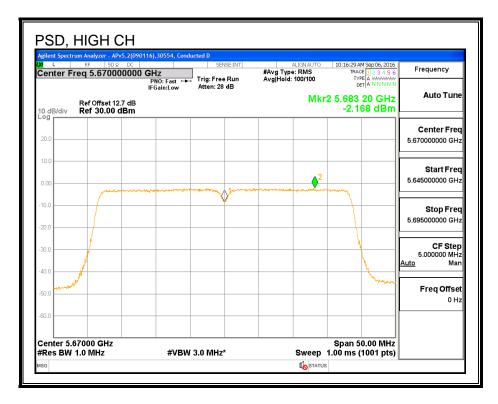












8.71. 802.11ac VHT40 2Tx (CHAIN 1 + CHAIN 2) STBC STRADDLE CHANNEL 142 RESULTS (FCC)

8.71.1. OUTPUT POWER AND PSD

UNII-2C BAND

Bandwidth, Antenna Gain, and Limits

Channel	Frequency	Min	Directional	Directional	Power	PSD
		26 dB	Gain	Gain	Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm)
142	5710	35.19	6.44	6.44	23.56	10.56

Duty Cycle CF (dB) 0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency	Chain 1	Chain 2	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
142	5710	11.44	11.75	14.61	23.56	-8.95

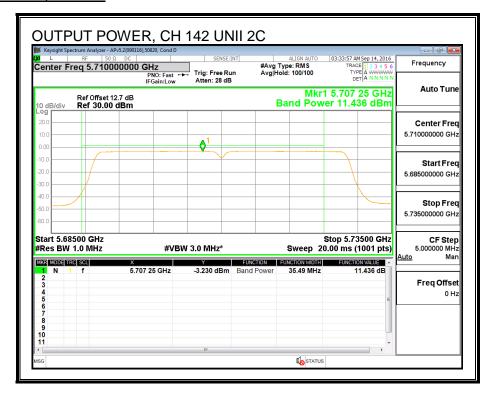
PSD Results

Channel	Frequency	Chain 1	Chain 2	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
142	5710	-3.11	-2.74	0.09	10.56	-10.47

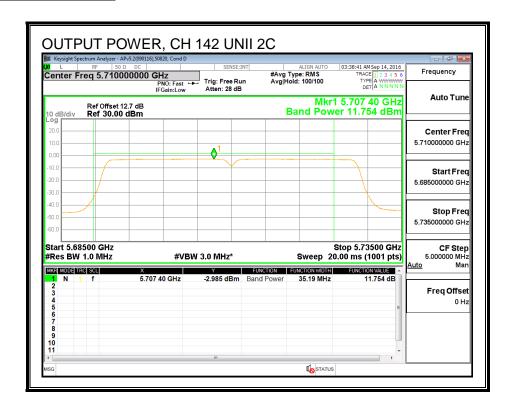
DATE: OCTOBER 13, 2016

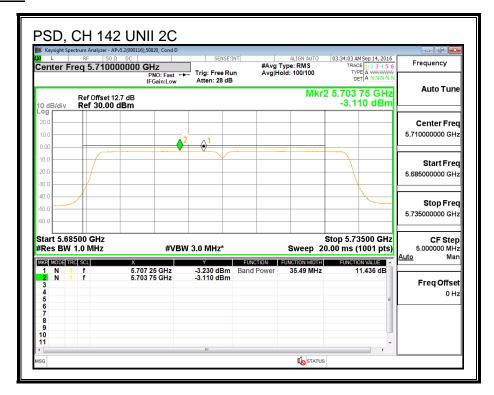
IC: 579C-A1707

OUTPUT POWER, CHAIN 1

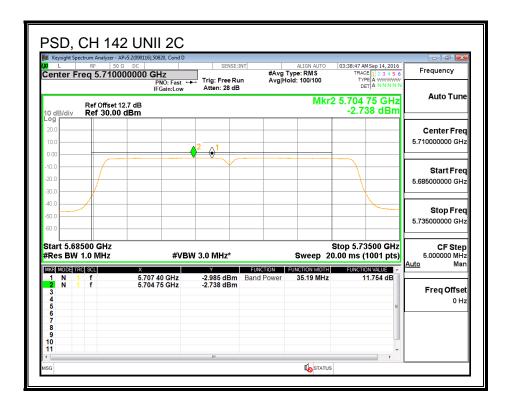


OUTPUT POWER, CHAIN 2





PSD, CHAIN 2



REPORT NO: 16U23800-E4V2 FCC ID: BCGA1707

UNII-3 BAND

Antenna Gain and Limit

Channel	Frequency	Min	Directional	Directional	Power	PSD
		26 dB	Gain	Gain	Limit	Limit
		BW	For Power	For PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm)
142	5710	5.19	6.44	6.44	29.56	29.56

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency	Chain 1	Chain 2	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
142	5710	1.28	1.57	4.44	29.56	-25.12

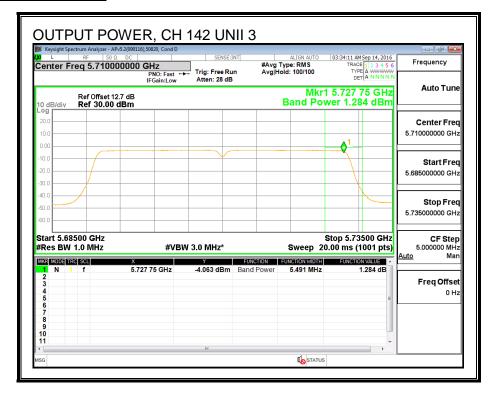
PSD Results

Channel	Frequency	Chain 1	Chain 2	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
142	5710	-6.27	-5.98	-3.11	29.56	-32.67

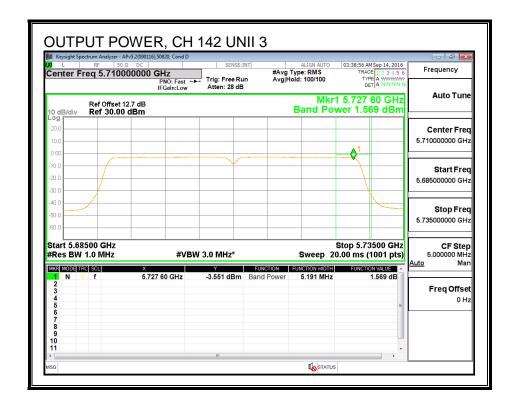
DATE: OCTOBER 13, 2016

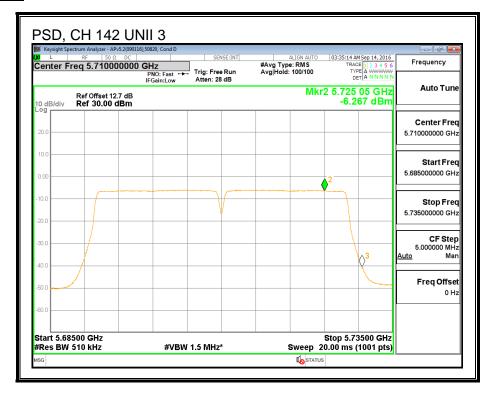
IC: 579C-A1707

OUTPUT POWER, CHAIN 1

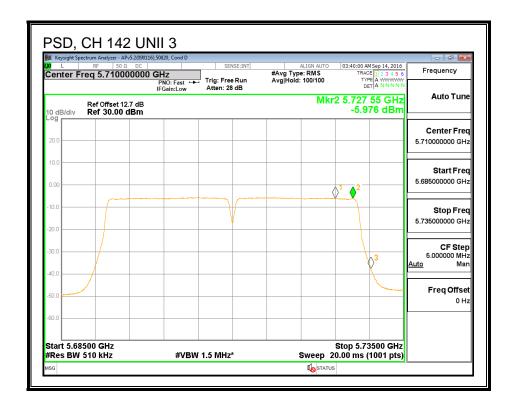


OUTPUT POWER, CHAIN 2





PSD, CHAIN 2



8.72. 802.11ac VHT40 2Tx (CHAIN 1 + CHAIN 2) STBC STRADDLE CHANNEL 142 RESULTS (IC)

8.72.1. OUTPUT POWER AND PSD

UNII-2C BAND

Bandwidth, Antenna Gain, and Limits

Channel	Frequency	Min	Directional	Directional	Power	PSD
		99%	Gain	Gain	Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm)
142	5710	33.190	6.44	6.44	23.56	10.56

Duty Cycle CF (dB) 0.00	Included in Calculations of Corr'd Power & PSD
-------------------------	--

Output Power Results

Channel	Frequency	Chain 1	Chain 2	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
142	5710	11.41	11.73	14.58	23.56	-8.98

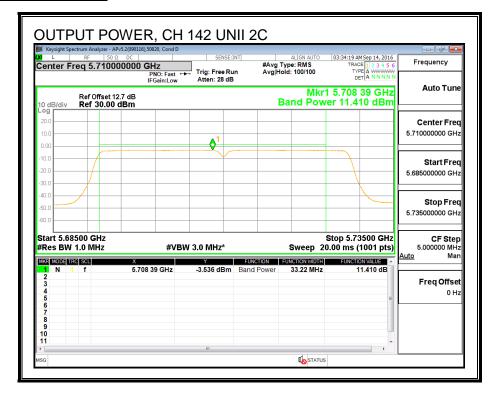
PSD Results

Channel	Frequency	Chain 1	Chain 2	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
142	5710	-3.11	-2.74	0.09	10.56	-10.47

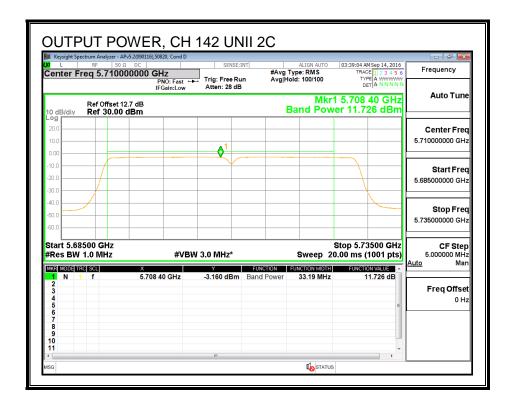
DATE: OCTOBER 13, 2016

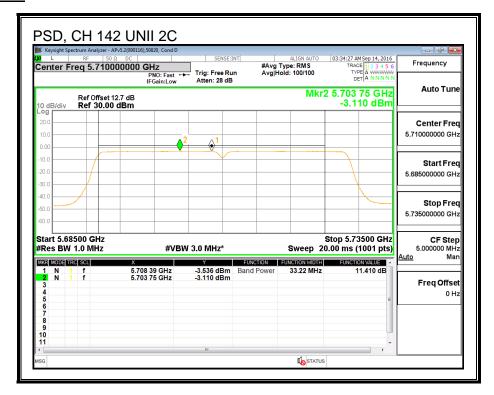
IC: 579C-A1707

OUTPUT POWER, CHAIN 1

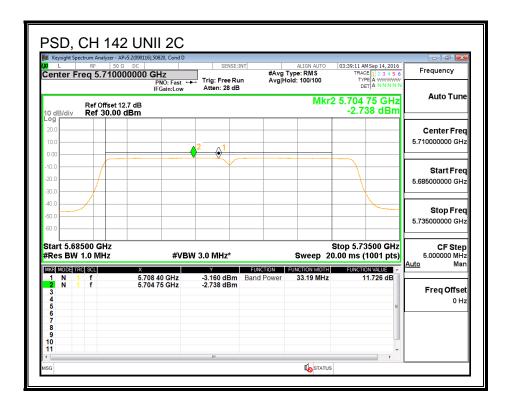


OUTPUT POWER, CHAIN 2





PSD, CHAIN 2



REPORT NO: 16U23800-E4V2 DATE: OCTOBER 13, 2016 IC: 579C-A1707 FCC ID: BCGA1707

UNII-3 BAND

Antenna Gain and Limit

Channel	Frequency	Min	Directional	Directional	Power	PSD
		99%	Gain	Gain	Limit	Limit
		BW	For Power	For PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm)
142	5710	3.193	6.44	6.44	29.56	29.56

Duty Cycle CF (dB) 0.00	Included in Calculations of Corr'd Power & PSD
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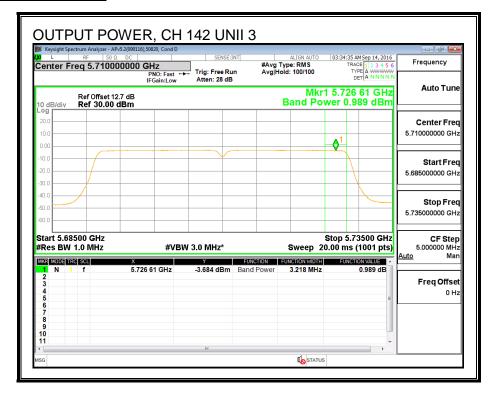
Output Power Results

Channel	Frequency	Chain 1	Chain 2	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
142	5710	0.99	1.26	4.13	29.56	-25.43

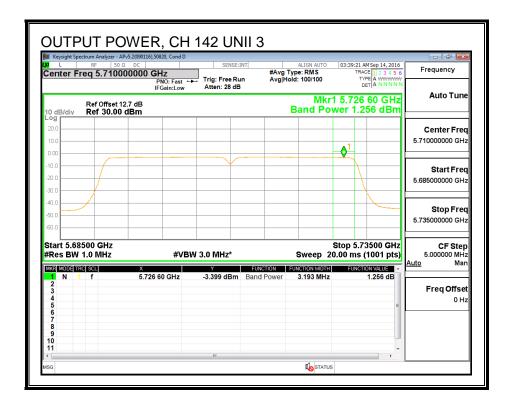
PSD Results

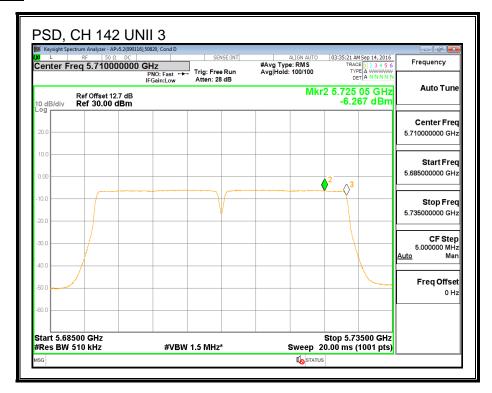
Channel	Frequency	Chain 1	Chain 2	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
142	5710	-6.27	-5.98	-3.11	29.56	-32.67

OUTPUT POWER, CHAIN 1

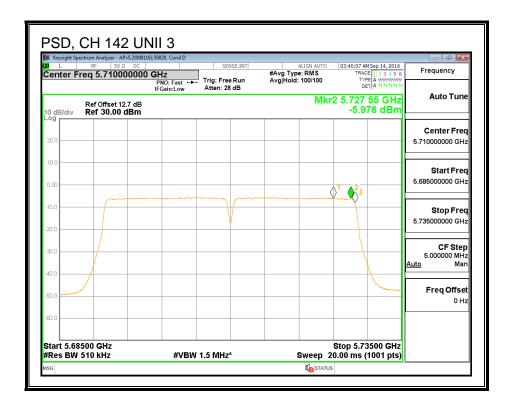


OUTPUT POWER, CHAIN 2





PSD, CHAIN 2



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8.72.2. **6 dB BBANDWIDTH**

LIMITS

FCC §15.407 (e)

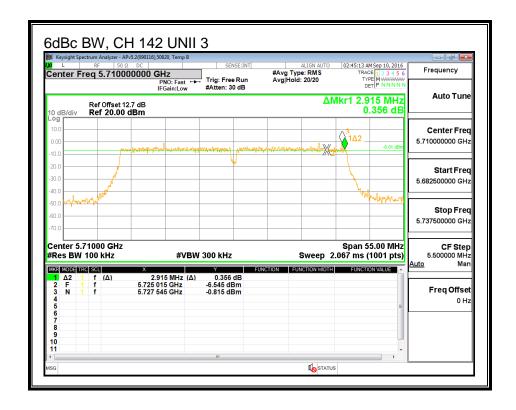
IC RSS-247 (6.2.4) (1)

The minimum 6 dB bandwidth shall be at least 500 kHz.

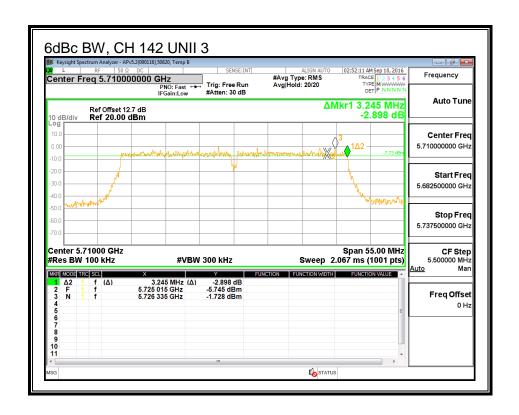
RESULTS

Channel	Channel Frequency		6 dB BW
		Chain 1	Chain 2
	(MHz)	(MHz)	(MHz)
142	5710	2.915	3.245

CHAIN 1



CHAIN 2



802.11ac VHT40 2Tx (CHAIN 0 + CHAIN 1) BEAM FORMING MODE IN 8.73. THE 5.6 GHz BAND

8.73.1. **26 dB BANDWIDTH**

LIMITS

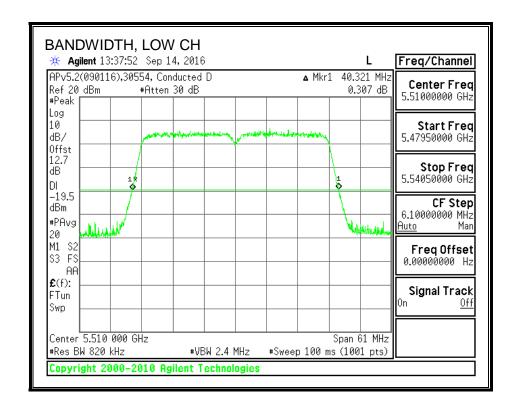
None; for reporting purposes only.

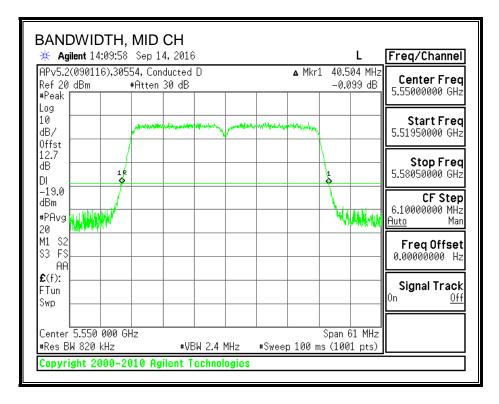
RESULTS

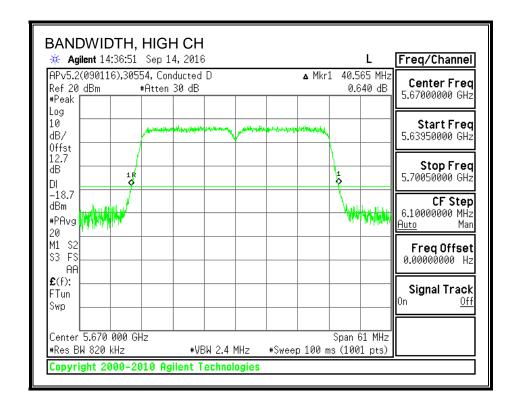
Channel	Frequency	26 dB BW	26 dB BW	
		Chain 0	Chain 1	
	(MHz)	(MHz)	(MHz)	
Low	5510	40.321	40.626	
Mid	5550	40.504	40.565	
High	5670	40.565	40.626	
142	5710	40.796	40.858	

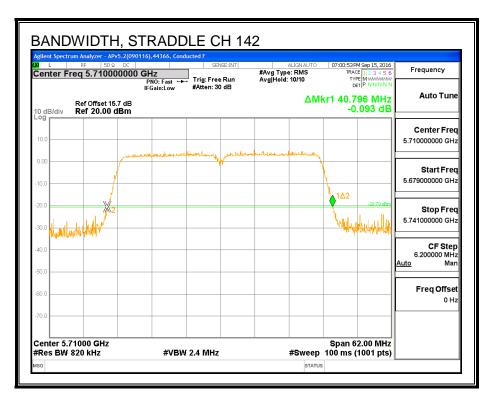
IC: 579C-A1707

26 dB BANDWIDTH, CHAIN 0

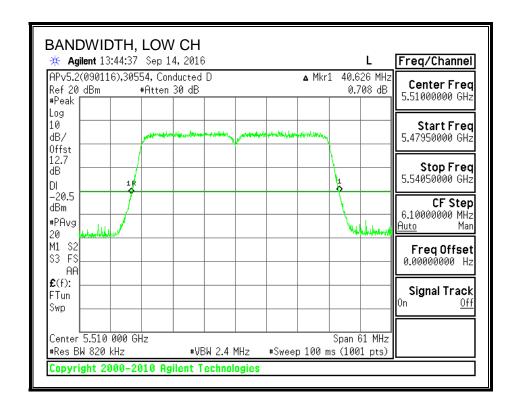


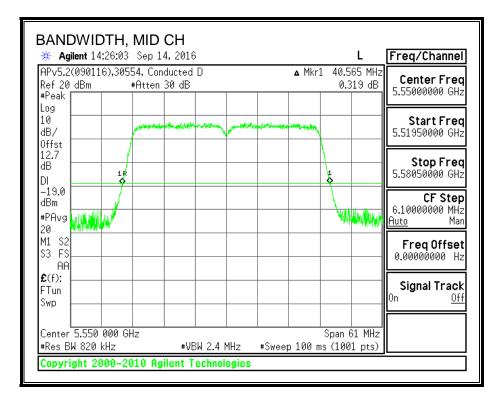


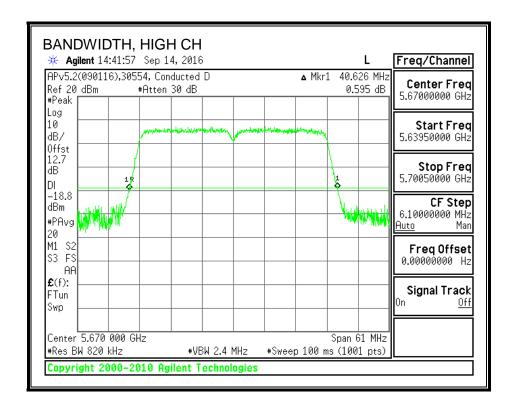


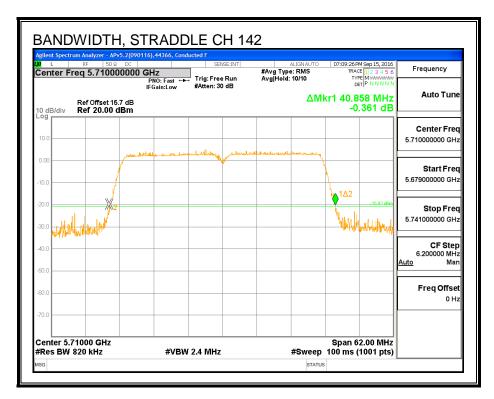


26 dB BANDWIDTH, CHAIN 1









8.73.2. **99% BANDWIDTH**

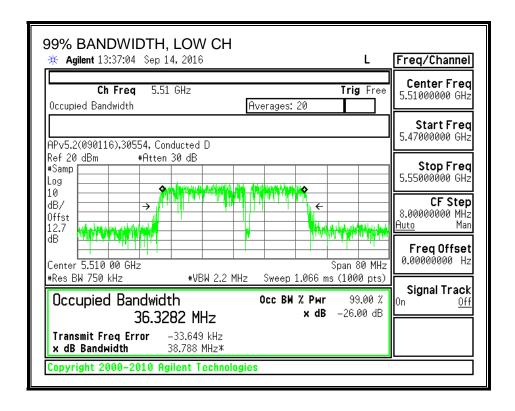
LIMITS

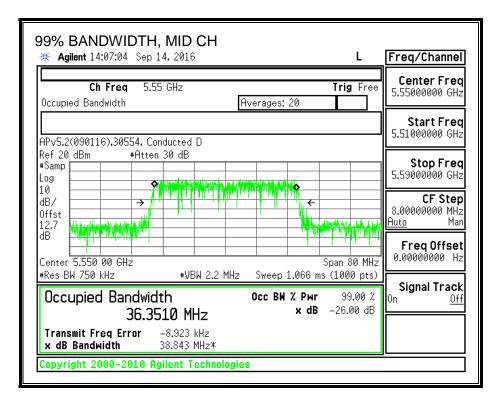
None; for reporting purposes only.

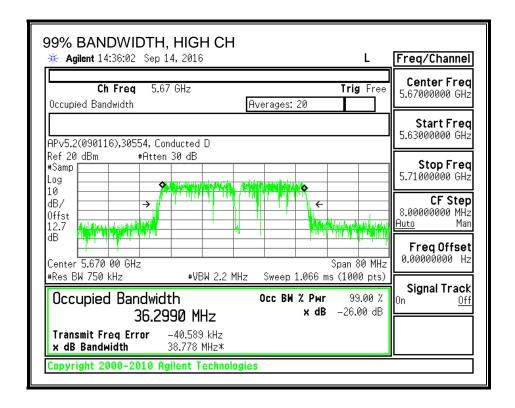
RESULTS

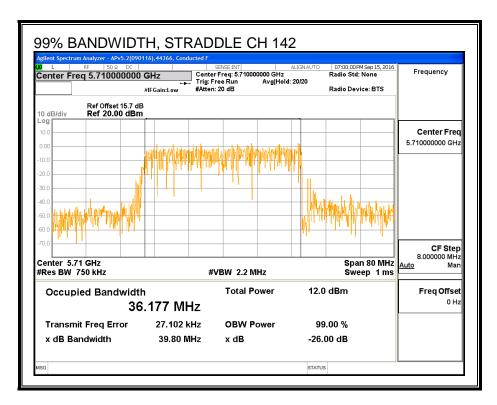
Channel	Frequency	99% BW	99% BW	
		Chain 0	Chain 1	
	(MHz)	(MHz)	(MHz)	
Low	5510	36.328	36.371	
Mid	5550	36.351	36.303	
High	5670	36.299	36.311	
142	5710	36.177	36.441	

99% BANDWIDTH, CHAIN 0

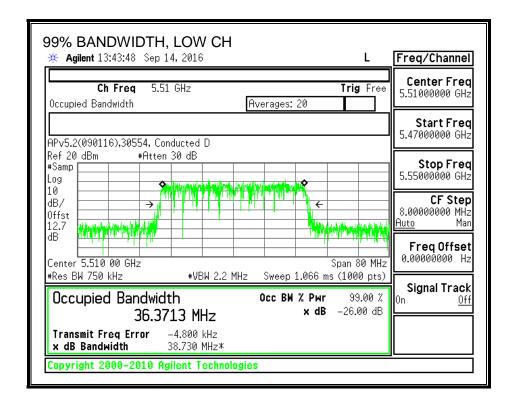


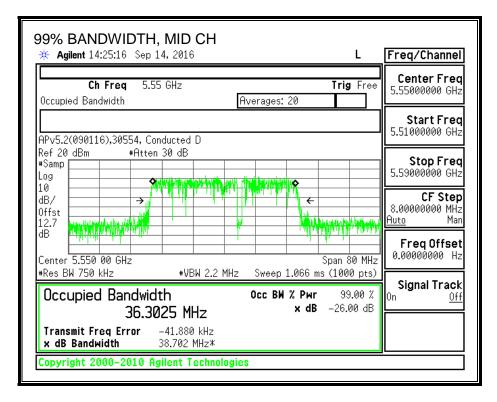


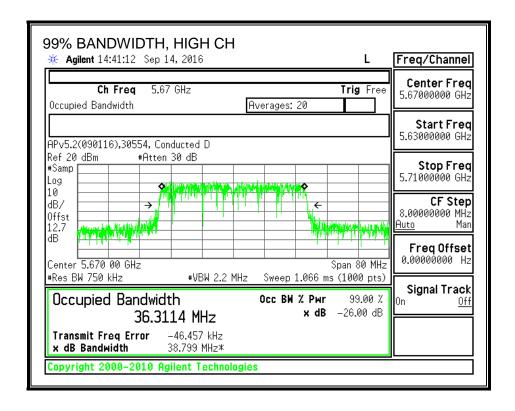


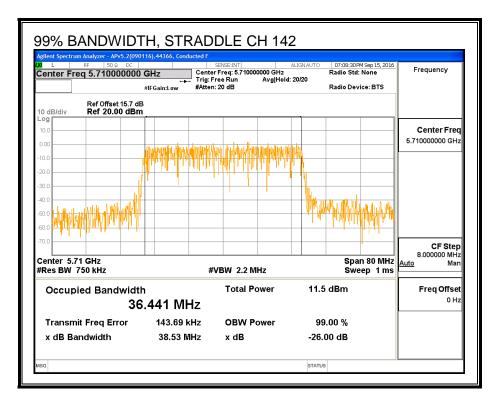


99% BANDWIDTH, CHAIN 1









8.73.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

RESULTS

ID:	44366	Date:	9/12/16
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Average Power Results

Channel	Frequency	Chain 0 Chain 1		Total
		Power	Power	Power
	(MHz)	(dBm)	(dBm)	(dBm)
Low	5510	11.00	10.87	13.95
Mid	5590	12.25	12.22	15.25
High	5670	12.25	12.20	15.24
142	5710	12.21	12.24	15.24

8.73.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

IC RSS-247 (6.2.3) (1)

The maximum conducted output power shall not exceed 250 mW or 11 + 10 log10B, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log10B, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Straddle channel power is measured using PXA spectrum analyzer, duty cycle correction factor is required.

DIRECTIONAL ANTENNA GAIN

The TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0	Chain 1	Correlated Chains
Antenna	Antenna	Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
4.90	7.40	9.25

RESULTS

ID : 44366 Date : 9/12/16

Bandwidth, Antenna Gain and Limits

Channel	Frequency	Min	Min	Directional	Directional	Power	PSD
		26 dB	99%	Gain	Gain	Limit	Limit
		BW	BW	for Power	for PSD		
	(MHz)	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm)
Low	5510	40.32	36.328	9.25	9.25	23.35	7.75
Mid	5550	40.50	36.303	9.25	9.25	23.35	7.75
High	5670	40.57	36.311	9.25	9.25	23.35	7.75

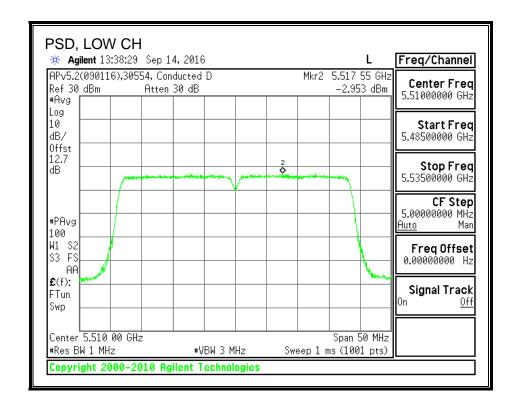
Duty Cycle CF (dB)	0.79	Included in Calculations of Corr'd PSD
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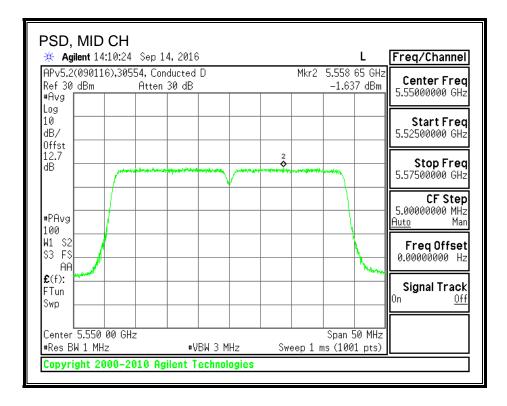
Output Power Results

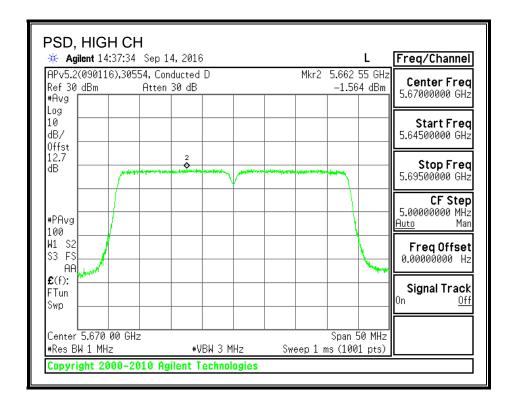
Channel	Frequency	Chain 0	Chain 1	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5510	11.00	10.87	13.95	23.35	-9.41
Mid	5550	12.25	12.22	15.25	23.35	-8.10
High	5670	12.25	12.20	15.24	23.35	-8.12

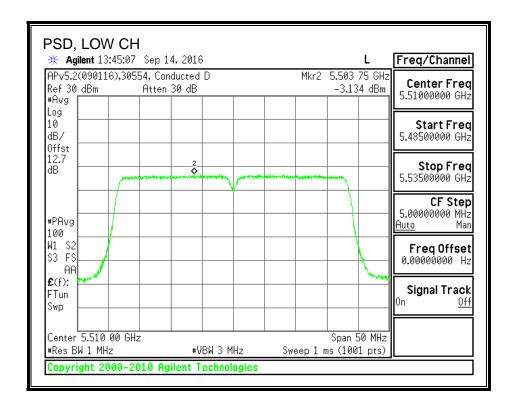
PSD Results

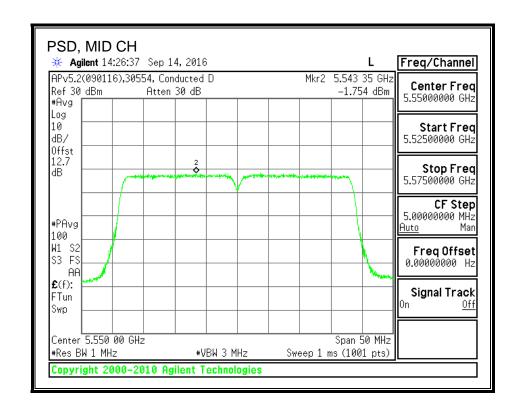
Channel	Frequency	Chain 0	Chain 1	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5510	-2.95	-3.13	0.76	7.75	-6.99
Mid	5550	-1.64	-1.75	2.11	7.75	-5.64
High	5670	-1.56	-1.69	2.18	7.75	-5.57

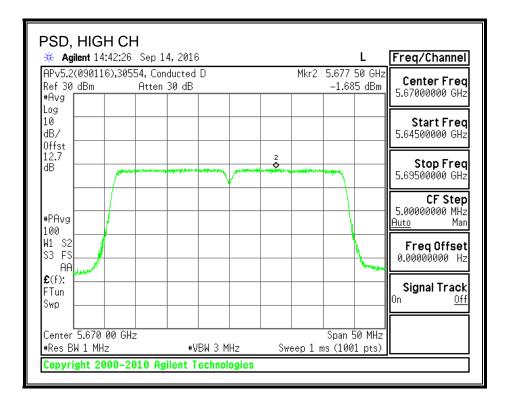












8.74. 802.11ac VHT40 2Tx (CHAIN 0 + CHAIN 1) BEAM FORMING STRADDLE CHANNEL 142 RESULTS (FCC)

8.74.1. OUTPUT POWER AND PSD

UNII-2C BAND

Bandwidth, Antenna Gain, and Limits

Channel	Frequency	Min	Directional	Directional	Power	PSD
		26 dB	Gain	Gain	Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm)
142	5710	35.40	9.25	9.25	20.75	7.75

Output Power Results

Channel	Frequency	Chain 1	Chain 2	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
142	5710	11.73	11.77	15.55	20.75	-5.20

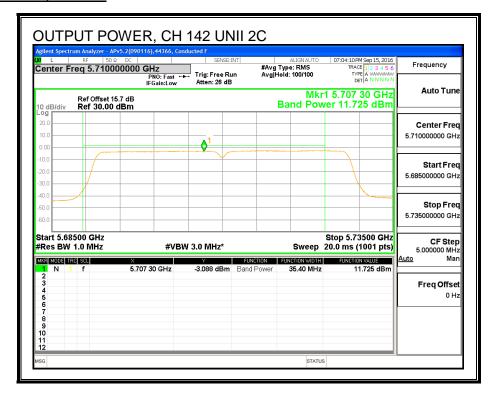
PSD Results

Channel	Frequency	Chain 1	Chain 2	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
142	5710	-2.59	-2.55	1.23	7.75	-6.52

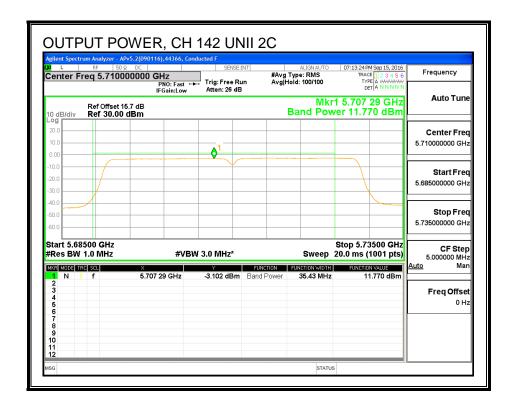
DATE: OCTOBER 13, 2016

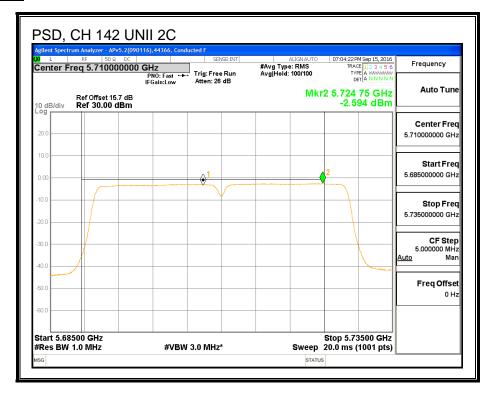
IC: 579C-A1707

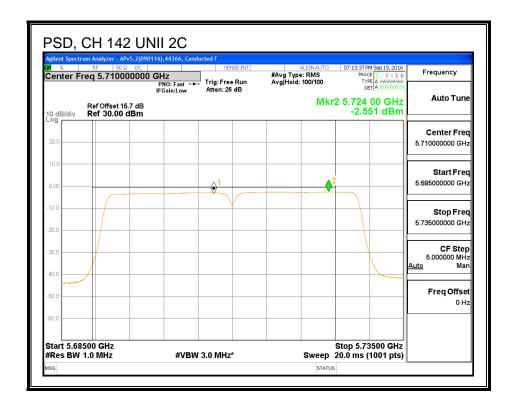
OUTPUT POWER, CHAIN 0



OUTPUT POWER, CHAIN 1







REPORT NO: 16U23800-E4V2 FCC ID: BCGA1707

UNII-3 BAND

Antenna Gain and Limit

Channel	Frequency	Min	Directional	Directional	Power	PSD
		26 dB	Gain	Gain	Limit	Limit
		BW	For Power	For PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm)
142	5710	5.40	9.25	9.25	26.75	26.75

Duty Cycle CF (dB)	0.79	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency	Chain 0	Chain 1	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
142	5710	2.07	2.12	5.89	26.75	-20.86

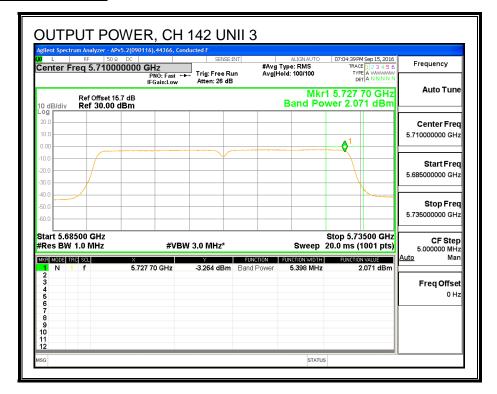
PSD Results

Channel	Frequency	Chain 0	Chain 1	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
142	5710	-5.41	-5.40	-1.60	26.75	-28.35

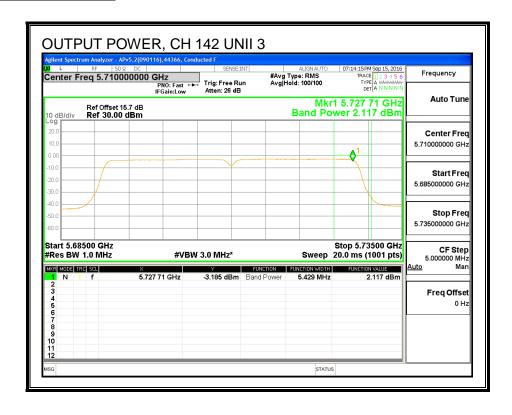
DATE: OCTOBER 13, 2016

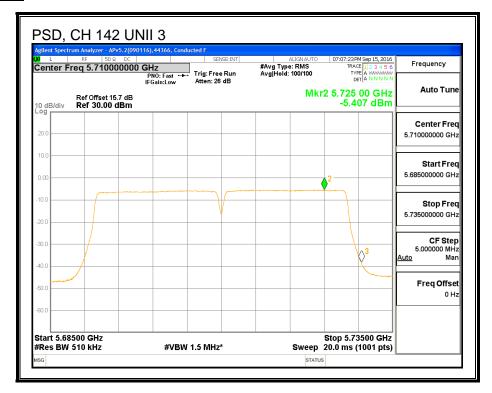
IC: 579C-A1707

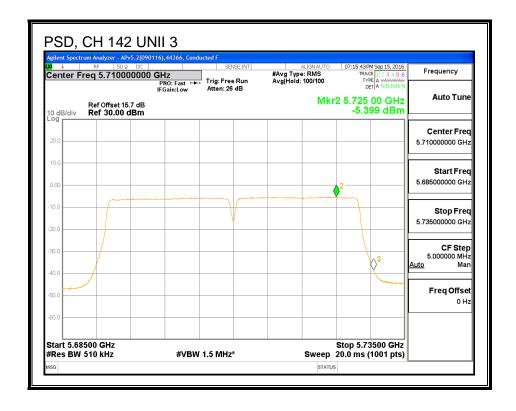
OUTPUT POWER, CHAIN 0



OUTPUT POWER, CHAIN 1







8.75. 802.11ac VHT40 2Tx (CHAIN 0 + CHAIN 1) BEAM FORMING STRADDLE CHANNEL 142 RESULTS (IC)

8.75.1. OUTPUT POWER AND PSD

UNII-2C BAND

Bandwidth, Antenna Gain, and Limits

Channel	Frequency	Min	Directional	Directional	Power	PSD
		99%	Gain	Gain	Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm)
142	5710	33.090	9.25	9.25	20.75	7.75

Duty Cycle CF (dB)	0.79	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency	Chain 0	Chain 1	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
142	5710	11.69	11.74	15.52	20.75	-5.23

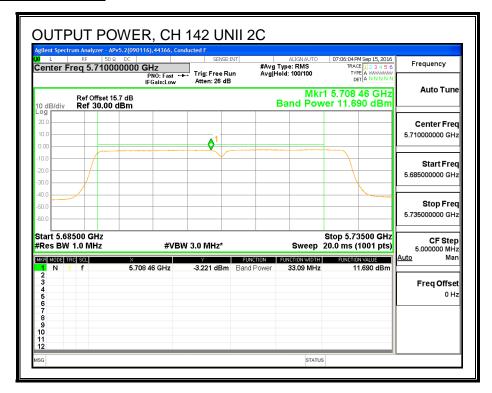
PSD Results

	_					
Channel	Frequency	Chain 0	Chain 1	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
142	5710	-2.59	-2.55	1.23	7.75	-6.52

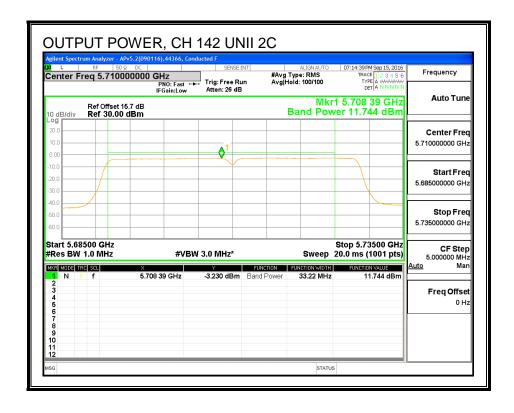
DATE: OCTOBER 13, 2016

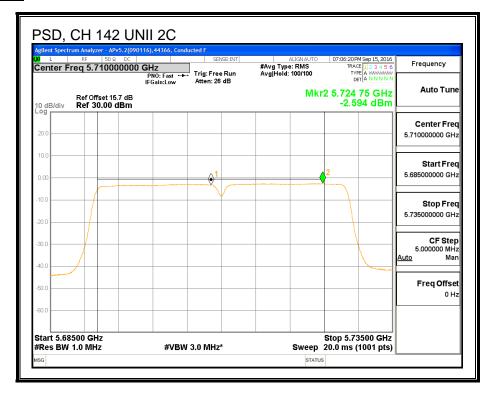
IC: 579C-A1707

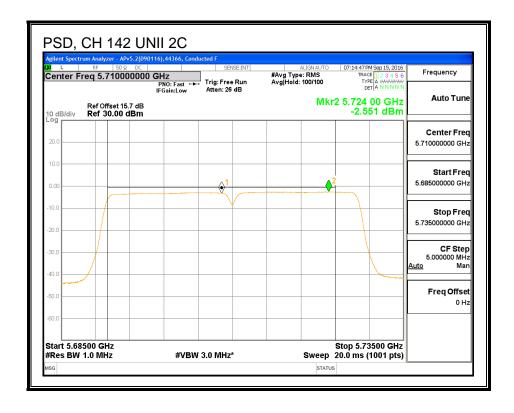
OUTPUT POWER, CHAIN 0



OUTPUT POWER, CHAIN 1







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UNII-3 BAND

Antenna Gain and Limit

Channel	Frequency	Min	Directional	Directional	Power	PSD
		99%	Gain	Gain	Limit	Limit
		BW	For Power	For PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm)
142	5710	3.088	9.25	9.25	26.75	26.75

Duty Cycle CF (dB) 0.79 Included in Calculations of Corr'd Power & PS	D
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Output Power Results

Channel	Frequency	Chain 0	Chain 1	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
142	5710	1.68	1.84	5.56	26.75	-21.19

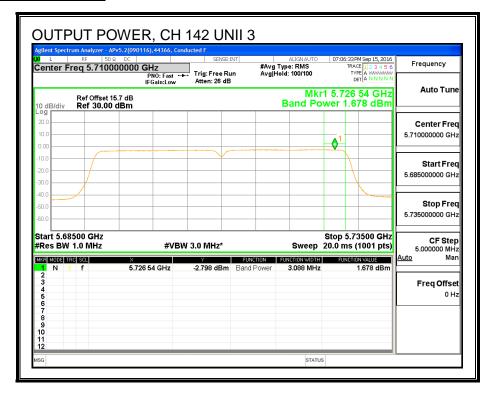
PSD Results

Chanr	nel Frequency	Chain 0	Chain 1	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
142	5710	-5.41	-5.40	-1.60	26.75	-28.35

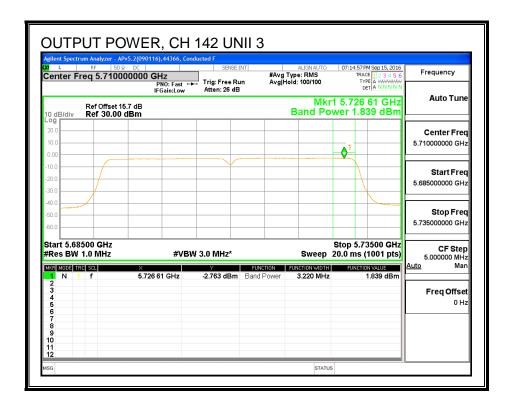
DATE: OCTOBER 13, 2016

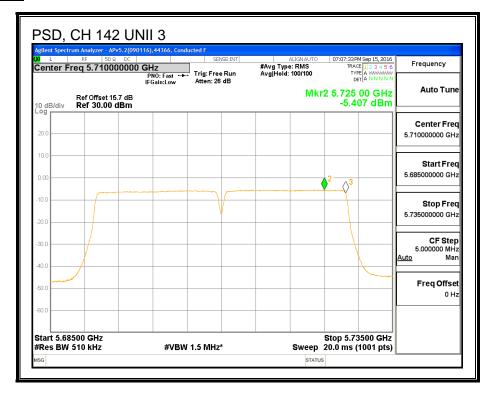
IC: 579C-A1707

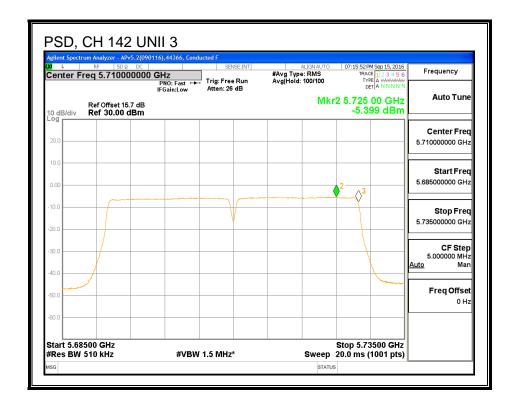
OUTPUT POWER, CHAIN 0



OUTPUT POWER, CHAIN 1







8.75.2. **6 dB BBANDWIDTH**

LIMITS

FCC §15.407 (e)

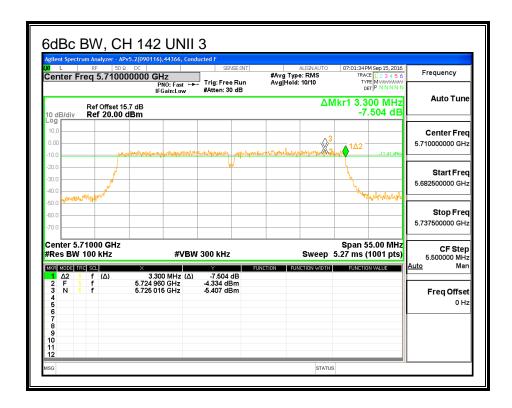
IC RSS-247 (6.2.4) (1)

The minimum 6 dB bandwidth shall be at least 500 kHz.

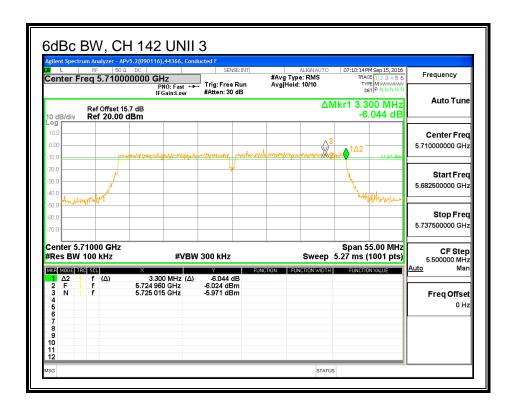
RESULTS

Channel	Frequency	6 dB BW	6 dB BW
		Chain 0	Chain 1
	(MHz)	(MHz)	(MHz)
142	5710	3.30	3.30

CHAIN 0



CHAIN 1



8.76. 802.11n HT40 2Tx (CHAIN 0 + CHAIN 2) BEAM FORMING MODE IN THE 5.6 GHz BAND

8.76.1. **26 dB BANDWIDTH**

LIMITS

None; for reporting purposes only.

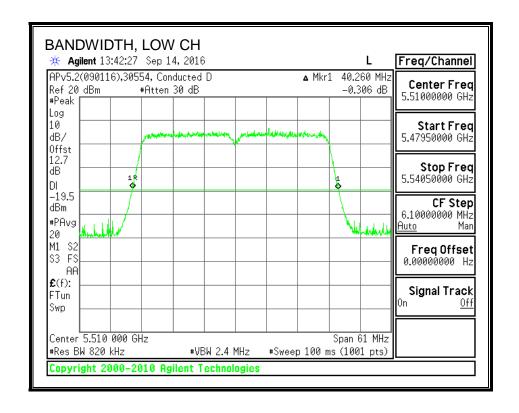
RESULTS

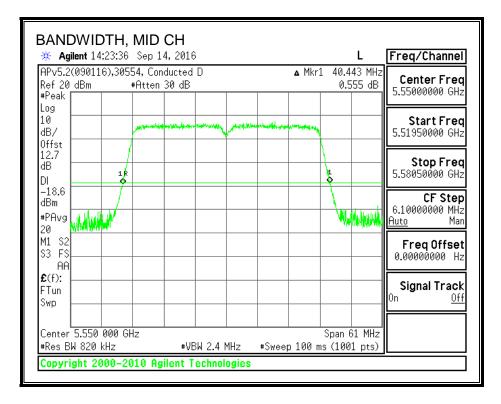
Channel	Frequency	26 dB BW	26 dB BW	
		Chain 0	Chain 2	
	(MHz)	(MHz)	(MHz)	
Low	5510	40.260	40.443	
Mid	5550	40.443	40.382	
High	5670	40.565	40.321	
142	5710	40.920	40.796	

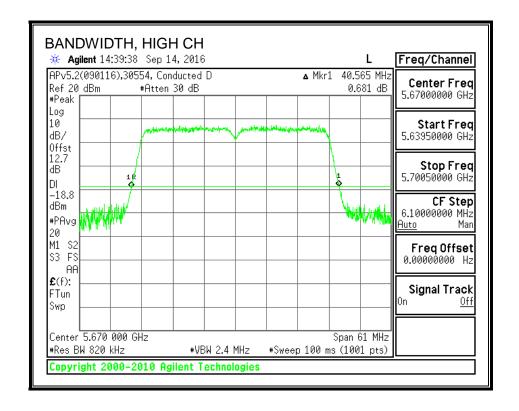
DATE: OCTOBER 13, 2016

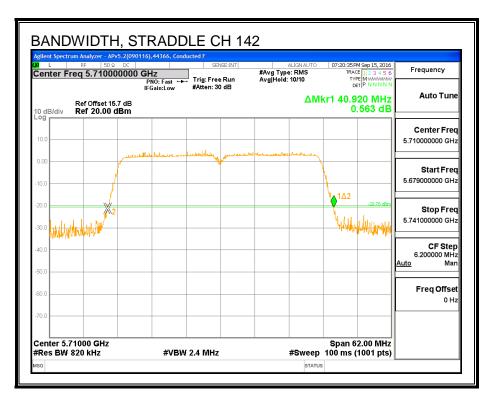
IC: 579C-A1707

26 dB BANDWIDTH, CHAIN 0

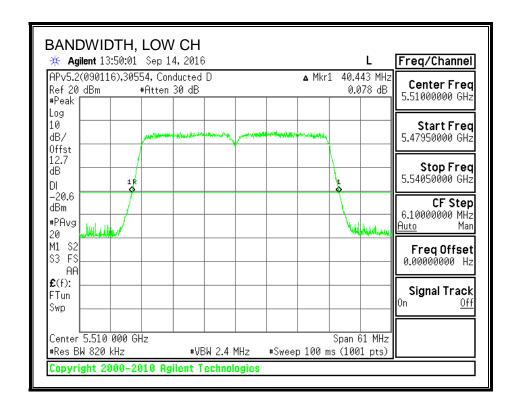


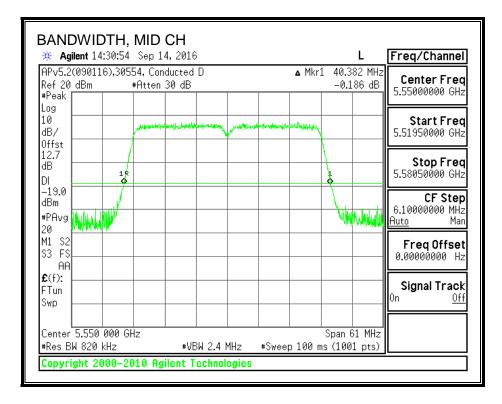


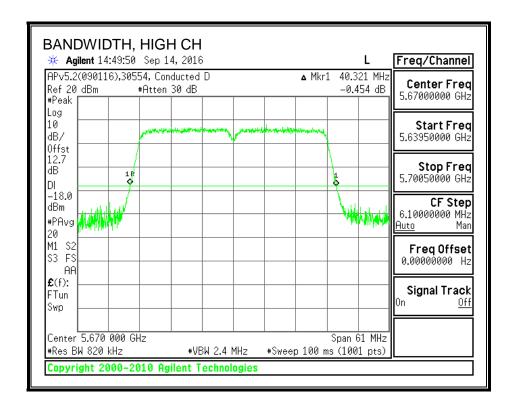


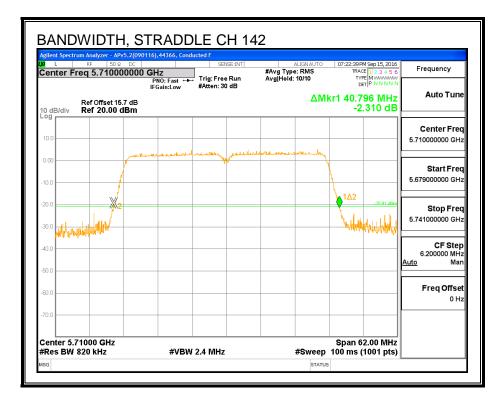


26 dB BANDWIDTH, CHAIN 2









8.76.2. **99% BANDWIDTH**

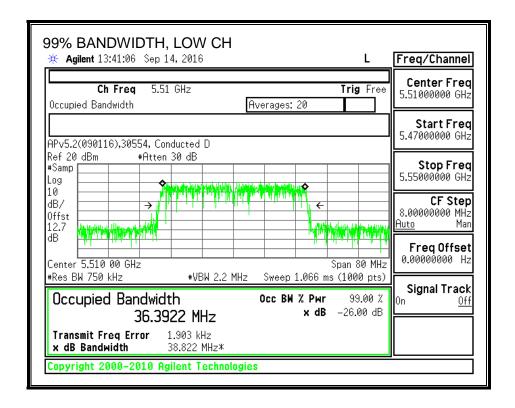
LIMITS

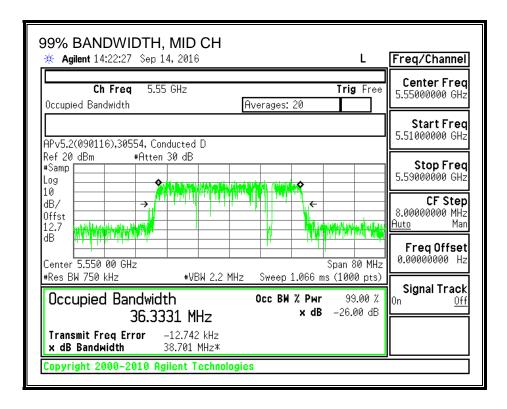
None; for reporting purposes only.

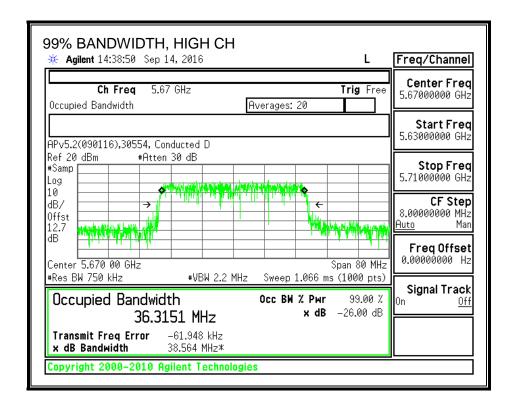
RESULTS

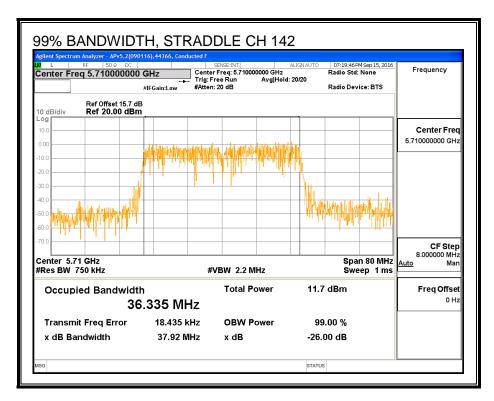
Channel	Frequency	99% BW	99% BW
		Chain 0	Chain 2
	(MHz)	(MHz)	(MHz)
Low	5510	36.392	36.362
Mid	5550	36.333	36.360
High	5670	36.315	36.271
142	5710	36.335	36.401

99% BANDWIDTH, CHAIN 0

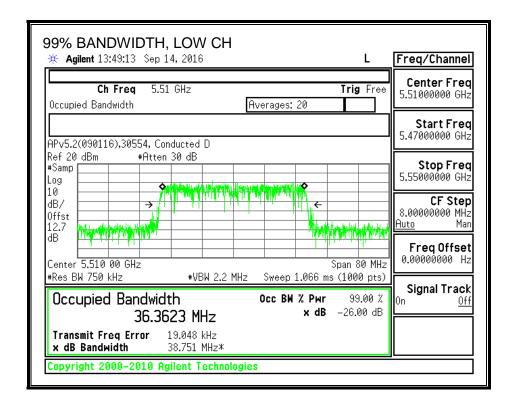


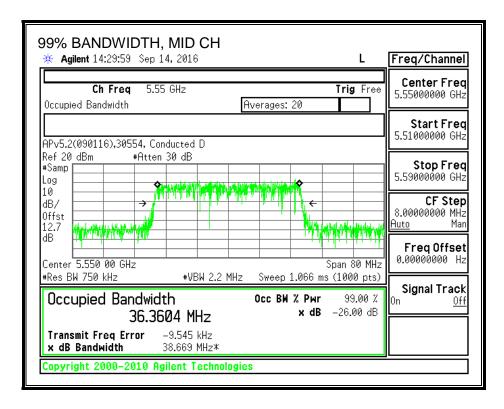


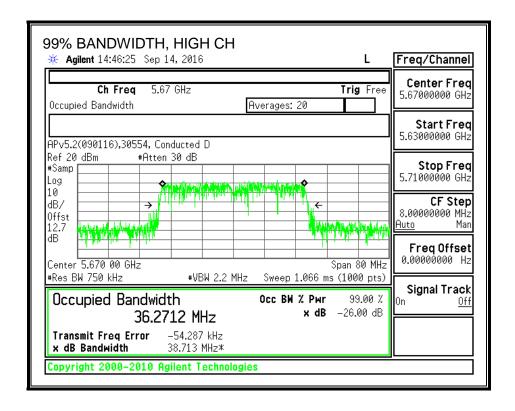


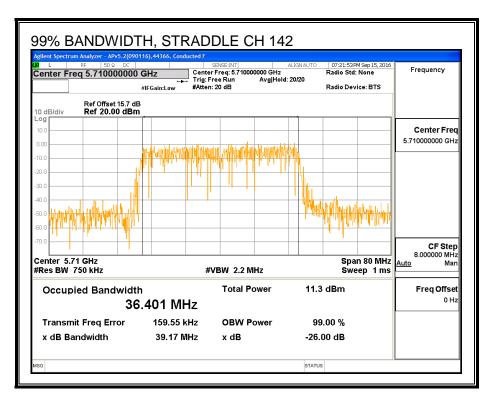


99% BANDWIDTH, CHAIN 2









8.76.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

RESULTS

ID:	44366	Date:	9/12/16
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Average Power Results

Channel	Frequency	Chain 0	Chain 2	Total
		Power	Power	Power
	(MHz)	(dBm)	(dBm)	(dBm)
Low	5510	10.99	10.87	13.94
Mid	5550	12.25	12.19	15.23
High	5670	12.21	12.22	15.23
142	5710	12.17	12.21	15.20

8.76.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

IC RSS-247 (6.2.3) (1)

The maximum conducted output power shall not exceed 250 mW or 11 + 10 log10B, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log10B, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Straddle channel power is measured using PXA spectrum analyzer, duty cycle correction factor is required.

FAX: (510) 661-0888

DIRECTIONAL ANTENNA GAIN

The TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0	Chain 2	Correlated Chains
Antenna	Antenna	Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
4.90	5.20	8.06

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RESULTS

ID:	44366	Date:	9/12/16
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Bandwidth, Antenna Gain and Limits

Channel	Frequency	Min	Min	Directional	Directional	Power	PSD
		26 dB	99%	Gain	Gain	Limit	Limit
		BW	BW	for Power	for PSD		
	(MHz)	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm)
Low	5510	40.26	36.3623	8.06	8.06	24.00	8.94
Mid	5550	40.38	36.333	8.06	8.06	24.00	8.94
High	5670	40.32	36.2712	8.06	8.06	24.00	8.94

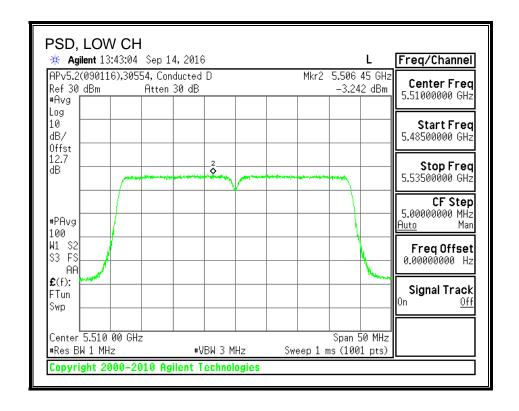
Duty Cycle CF (dB) 0.79	Included in Calculations of Corr'd PSD
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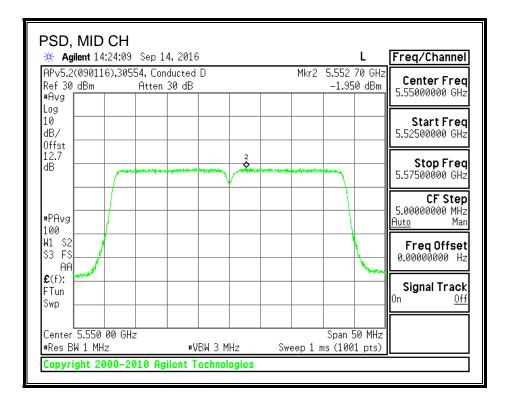
Output Power Results

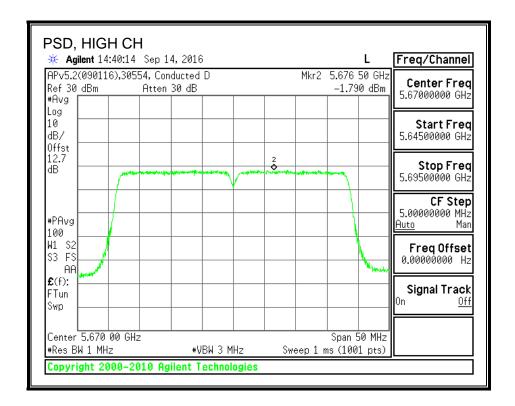
Channel	Frequency	Chain 0	Chain 2	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5510	10.99	10.87	13.94	24.00	-10.06
Mid	5550	12.25	12.19	15.23	24.00	-8.77
High	5670	12.21	12.22	15.23	24.00	-8.77

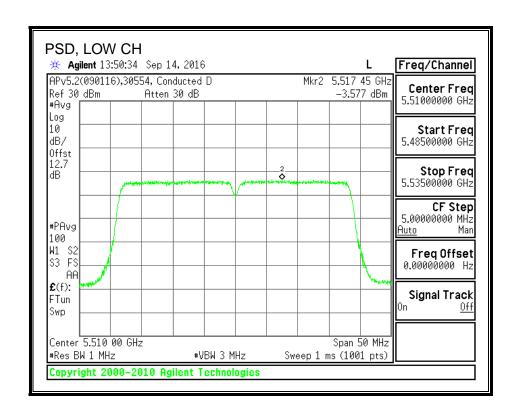
PSD Results

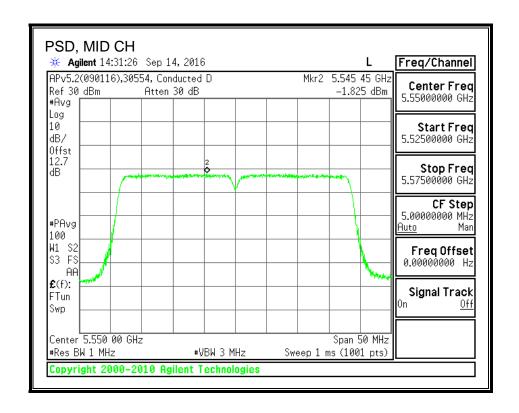
Channel	Frequency	Chain 0	Chain 2	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5510	-3.242	-3.577	0.39	8.94	-8.55
Mid	5550	-1.95	-1.825	1.91	8.94	-7.03
High	5670	-1.79	-1.745	2.03	8.94	-6.91

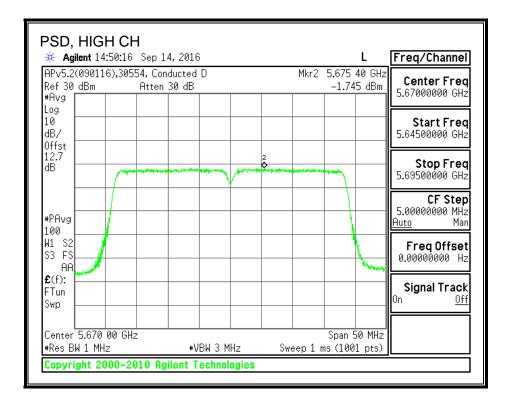












8.77. 802.11ac VHT40 2Tx (CHAIN 0 + CHAIN 2) BEAM FORMING STRADDLE CHANNEL 142 RESULTS (FCC)

8.77.1. OUTPUT POWER AND PSD

UNII-2C BAND

Bandwidth, Antenna Gain, and Limits

Channel	Frequency	Min	Directional	Directional	Power	PSD
		26 dB	Gain	Gain	Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm)
142	5710	35.40	8.06	8.06	21.94	8.94

Duty Cycle CF (dB) 0.79	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency	Chain 0	Chain 2	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
142	5710	11.66	11.73	15.49	21.94	-6.45

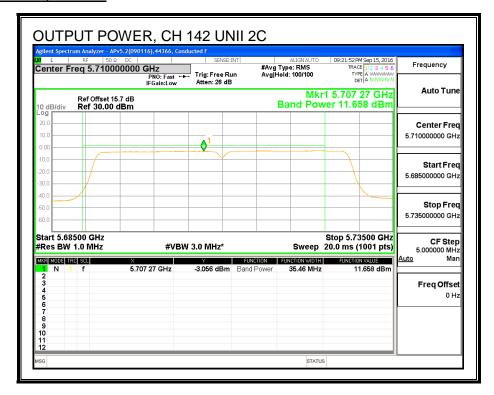
PSD Results

Channel	Frequency	Chain 0	Chain 2	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
142	5710	-2.65	-2.61	1.17	8.94	-7.77

DATE: OCTOBER 13, 2016

IC: 579C-A1707

OUTPUT POWER, CHAIN 0



OUTPUT POWER, CHAIN 2

