8.35. 802.11a SISO MODE IN THE 5.6 GHz BAND

Note: Covered by 802.11n HT20 SISO CDD MODE

802.11n HT20 CHAIN 0 MODE IN THE 5.6 GHz BAND 8.36.

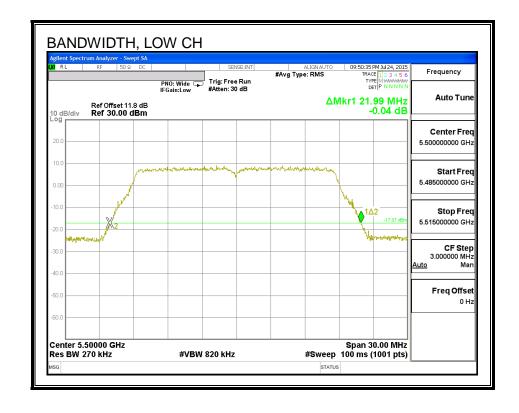
8.36.1. 26 dB BANDWIDTH

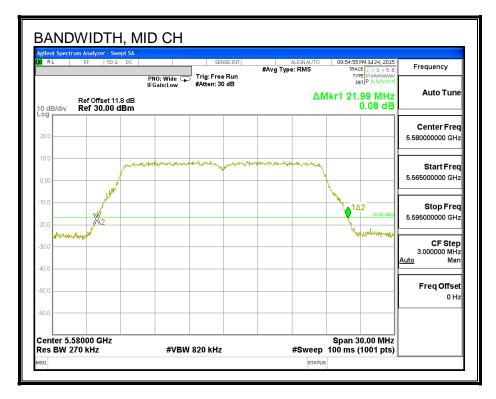
LIMITS

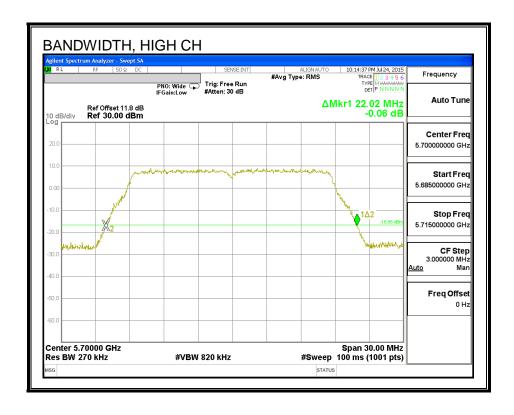
None; for reporting purposes only.

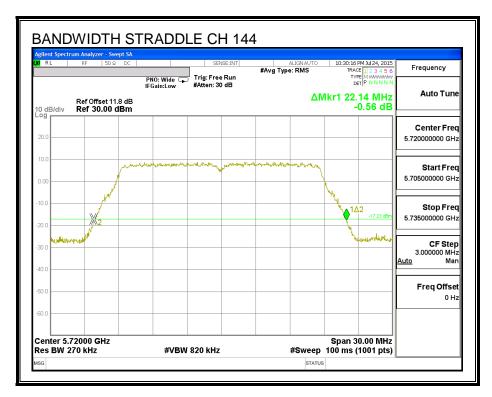
Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Low	5500	21.99
Mid	5580	21.99
High	5700	22.02
144	5720	22.14

26 dB BANDWIDTH









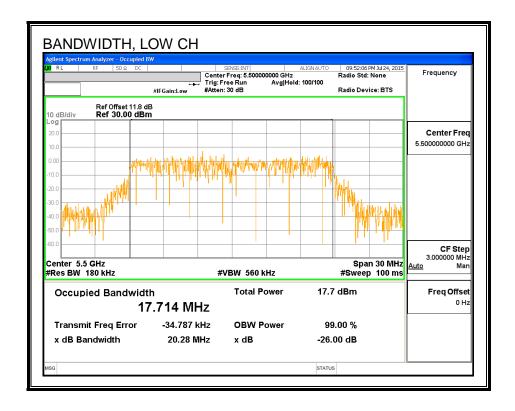
8.36.2. 99% BANDWIDTH

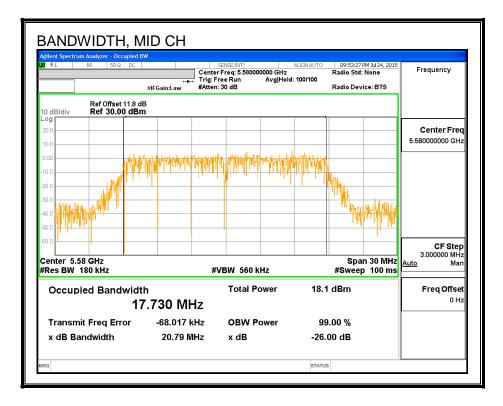
LIMITS

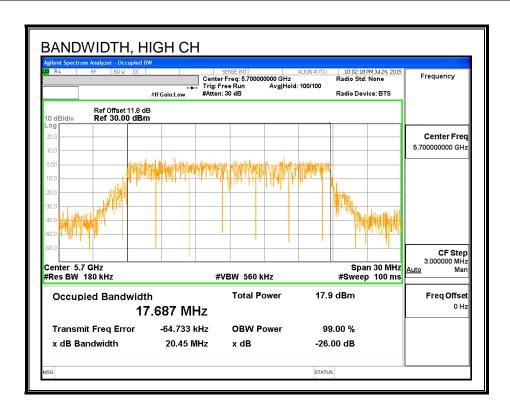
None; for reporting purposes only.

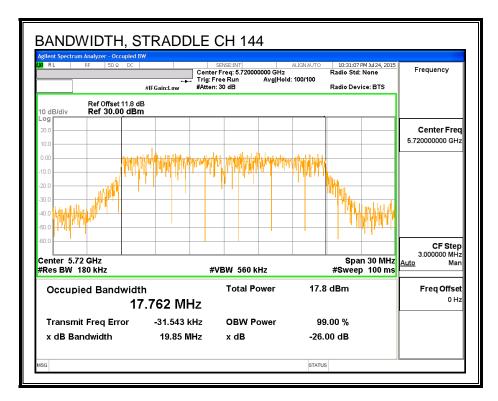
Channel	Frequency	99% Bandwidth		
	(MHz)	(MHz)		
Low	5500	17.714		
Mid	5580	17.730		
High	5700	17.687		
144	5720	17.762		

99% BANDWIDTH









8.36.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

Channel	Frequency	Power
	(MHz)	(dBm)
Low	5500	15.40
Mid	5580	15.44
High	5700	14.96
144	5720	15.45

8.36.4. 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.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

Bandwidth, Antenna Gain, and Limits

requency	Min	Min	Directional	Power	PSD
	26 dB	99%	Gain	Limit	Limit
	BW	BW			
(MHz)	(MHz)	(MHz)	(dBi)	(dBm)	(dBm)
5500	21.99	17.714	2.70	23.48	11.00
5580	21.99	17.730	2.70	23.49	11.00
5700	22.02	17.687	2.70	23.48	11.00
	(MHz) 5500 5580	26 dB BW (MHz) (MHz) 5500 21.99 5580 21.99	26 dB 99% BW BW (MHz) (MHz) (MHz) 5500 21.99 17.714 5580 21.99 17.730	26 dB 99% Gain BW (MHz) (MHz) (dBi) 5500 21.99 17.714 2.70 5580 21.99 17.730 2.70	26 dB BW 99% BW Gain Limit (MHz) (MHz) (dBi) (dBm) 5500 21.99 17.714 2.70 23.48 5580 21.99 17.730 2.70 23.49

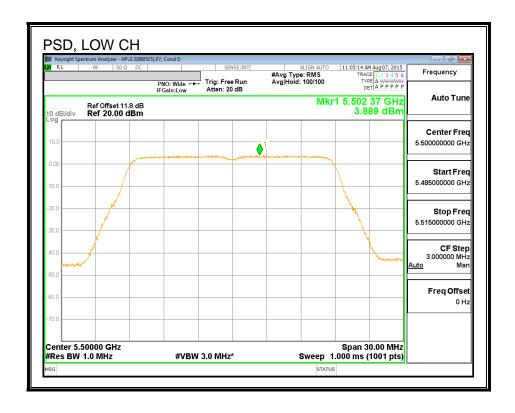
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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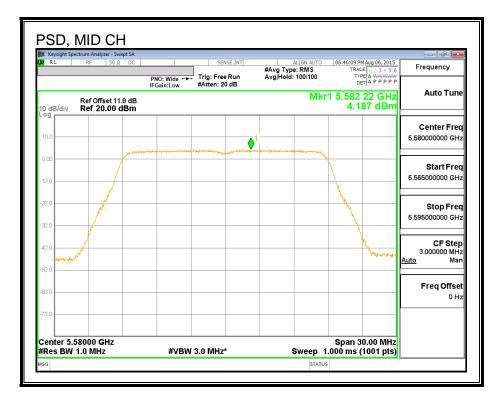
Output Power Results

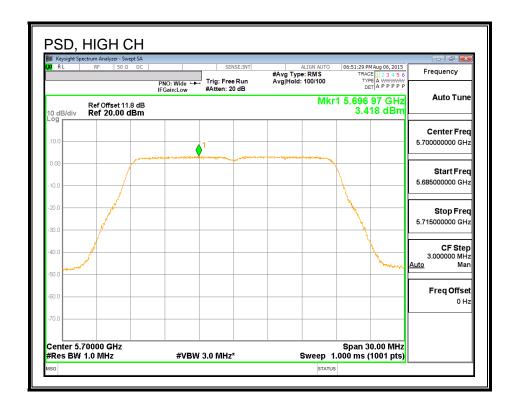
Output i Owor itodaito							
Channel	Frequency	Chain 0	Total	Power	Power		
		Meas	Corr'd	Limit	Margin		
		Power	Power				
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)		
Low	5500	15.40	15.40	23.48	-8.08		
Mid	5580	15.44	15.44	23.49	-8.05		
High	5700	14.96	14.96	23.48	-8.52		

Channel	Frequency	Chain 0	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5500	3.89	3.89	11.00	-7.11
Mid	5580	4.19	4.19	11.00	-6.81
High	5700	3.42	3.42	11.00	-7.58

<u>PSD</u>







8.36.5. STRADDLE CHANNEL 144 RESULTS

UNII-2C BAND

Bandwidth, Antenna Gain, and Limits

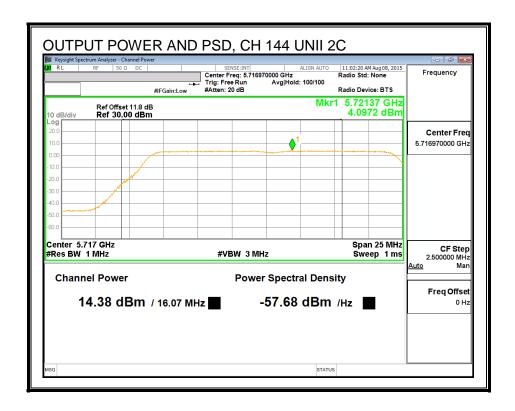
Channel	Frequency	Min	Directional	Directional	Power	PSD
		26 dB	Gain	Gain	Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm)
144	5720	16.07	2.70	2.70	23.06	11.00

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

Output Power Results

Channel	Frequency	Chain 0	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
144	5720	14.38	14.38	23.06	-8.68

Channel	Frequency	Chain 0	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
144	5720	4.10	4.10	11.00	-6.90



UNII-3 BAND

Antenna Gain and Limit

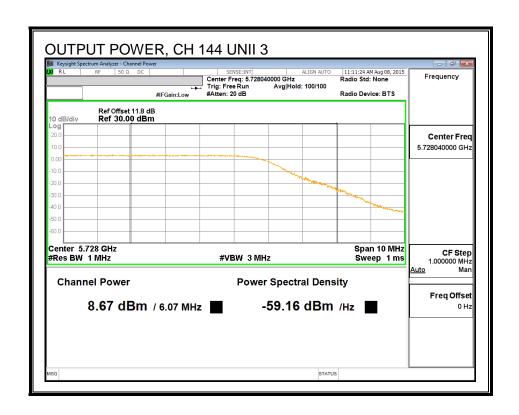
Channel	Frequency	Min	Directional	Power	PSD
		26 dB	Gain	Limit	Limit
		BW			
	(MHz)	(MHz)	(dBi)	(dBm)	(dBm)
144	5720	6.07	2.70	30.00	30.00

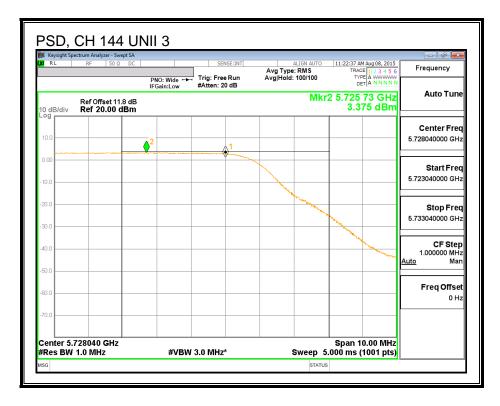
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency	Chain 0	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
144	5720	8.67	8.67	30.00	-21.33

Channel	Frequency	Chain 0	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
144	5720	3.38	3.38	30.00	-26.63



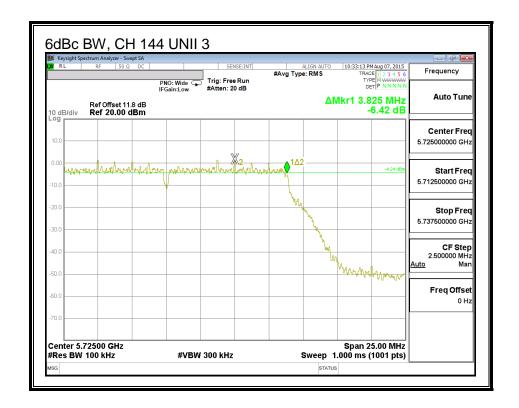


8.36.6. 6 dB BANDWIDTH

LIMITS

FCC §15.407 (e)

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



8.37. 802.11n HT20 CHAIN 1 MODE IN THE 5.6 GHz BAND

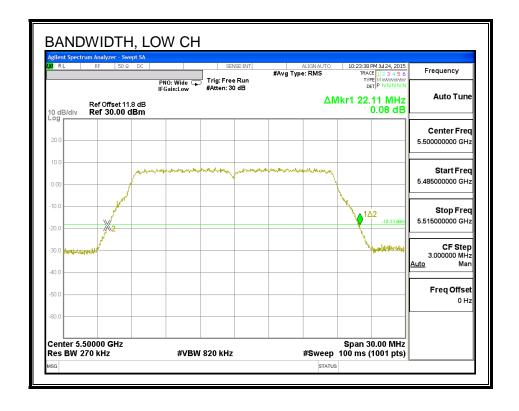
8.37.1. 26 dB BANDWIDTH

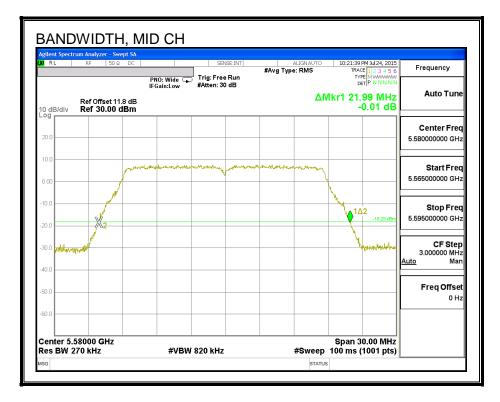
LIMITS

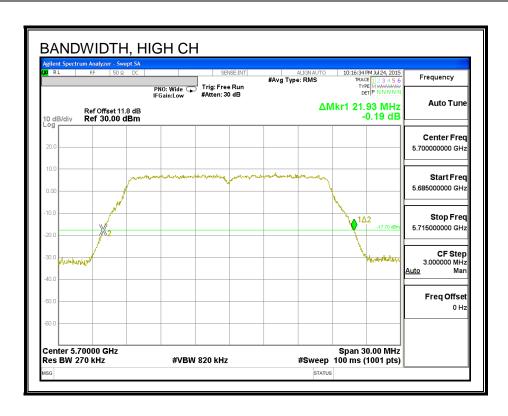
None; for reporting purposes only.

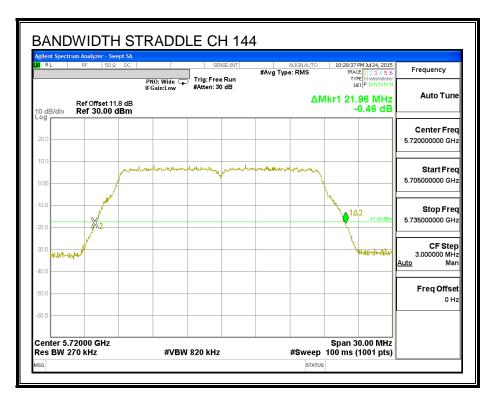
Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Low	5500	22.11
Mid	5580	21.99
High	5700	21.93
144	5720	21.96

26 dB BANDWIDTH









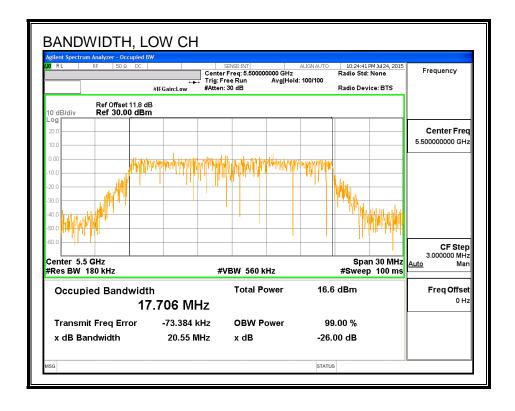
8.37.2. 99% BANDWIDTH

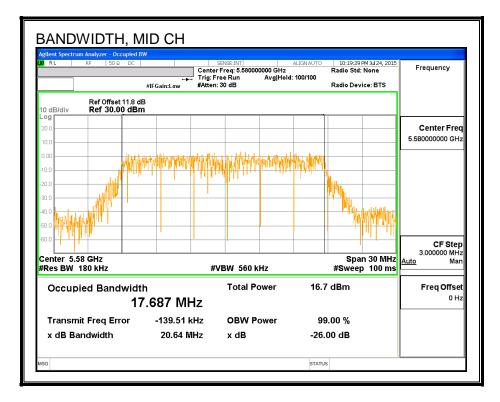
LIMITS

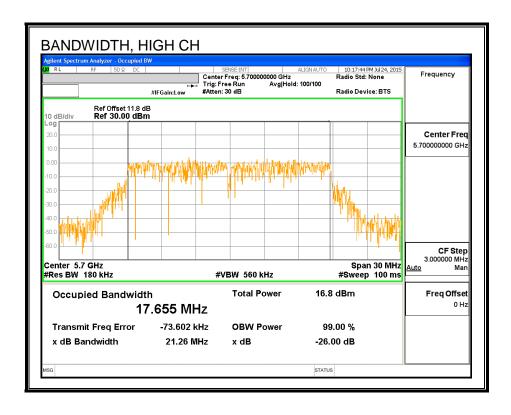
None; for reporting purposes only.

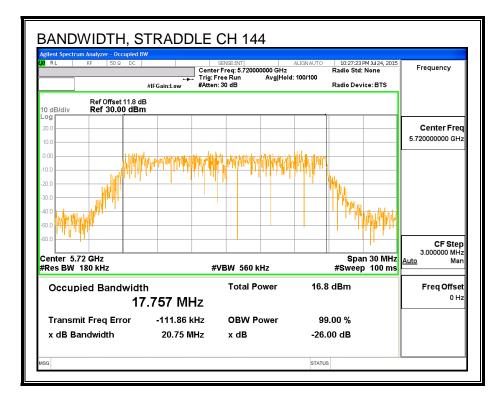
Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Low	5500	17.706
Mid	5580	17.687
High	5700	17.655
144	5720	17.757

99% BANDWIDTH









8.37.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

Channel	Frequency	Power
	(MHz)	(dBm)
Low	5500	15.49
Mid	5580	15.96
High	5700	14.93
144	5720	15.97

8.37.4. 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.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

Bandwidth, Antenna Gain, and Limits

Channel	Frequency	Min	Min	Directional	Power	PSD
		26 dB	99%	Gain	Limit	Limit
		BW	BW			
	(MHz)	(MHz)	(MHz)	(dBi)	(dBm)	(dBm)
Low	5500	22.11	17.706	3.10	23.48	11.00
Mid	5580	21.99	17.687	3.10	23.48	11.00
High	5700	21.93	17.655	3.10	23.47	11.00

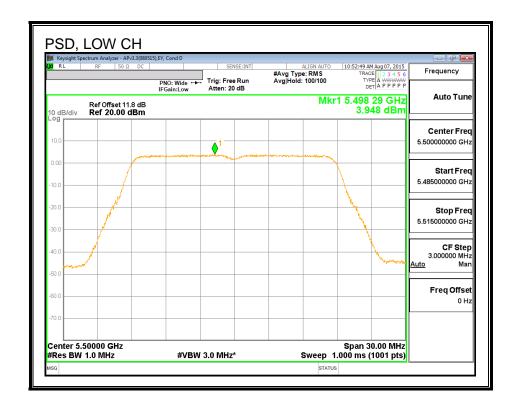
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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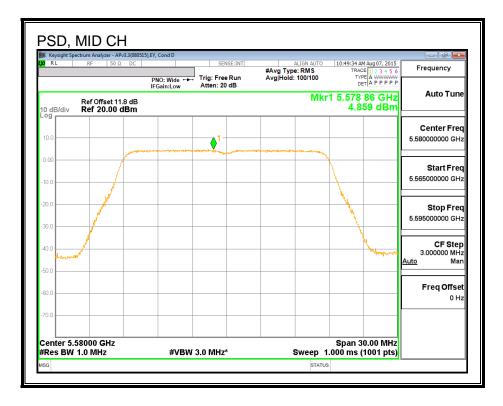
Output Power Results

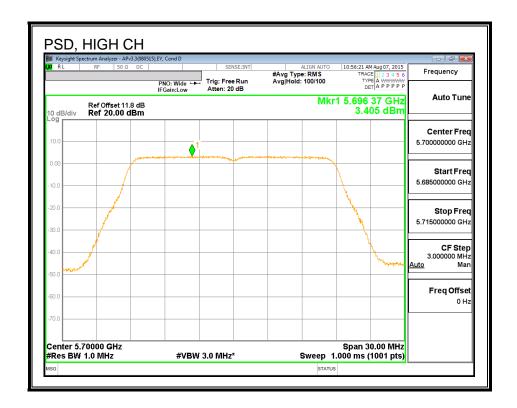
- Output I	pari ono resource				
Channel	Frequency	Chain 1	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5500	15.49	15.49	23.48	-7.99
Mid	5580	15.96	15.96	23.48	-7.52
High	5700	14.93	14.93	23.47	-8.54

Channel	Frequency	Chain 1	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5500	3.95	3.95	11.00	-7.05
Mid	5580	4.86	4.86	11.00	-6.14
High	5700	3.41	3.41	11.00	-7.60

<u>PSD</u>







8.37.5. STRADDLE CHANNEL 144 RESULTS

UNII-2C BAND

Bandwidth, Antenna Gain, and Limits

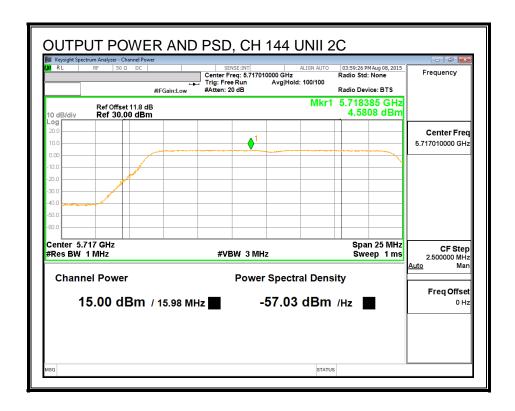
Channel	Frequency	Min	Directional	Directional	Power	PSD
		26 dB	Gain	Gain	Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm)
144	5720	15.98	3.10	3.10	23.04	11.00

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

Output Power Results

Channel	Frequency	Chain 1	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
144	5720	15.00	15.00	23.04	-8.04

(Channel	Frequency	Chain 1	Total	PSD	PSD
			Meas	Corr'd	Limit	Margin
			PSD	PSD		
		(MHz)	(dBm)	(dBm)	(dBm)	(dB)



UNII-3 BAND

Antenna Gain and Limit

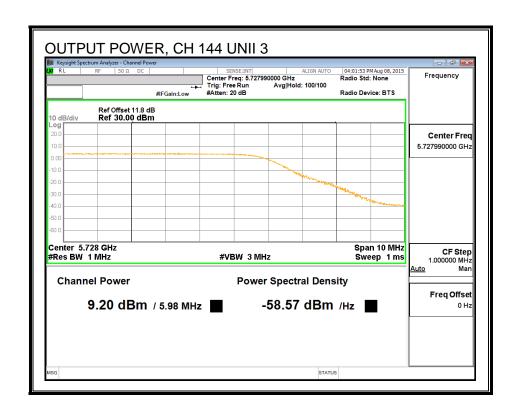
Channel	Frequency	Min	Directional	Power	PSD
		26 dB	Gain	Limit	Limit
		BW			
	(MHz)	(MHz)	(dBi)	(dBm)	(dBm)
144	5720	5.98	3.10	30.00	30.00

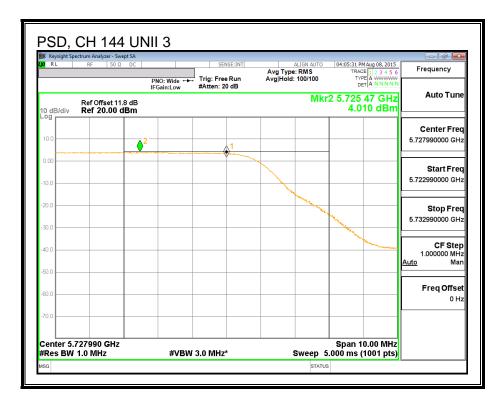
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency	Chain 1	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
144	5720	9.20	9.20	30.00	-20.80

Channel	Frequency	Chain 1	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
144	5720	4.01	4.01	30.00	-25.99



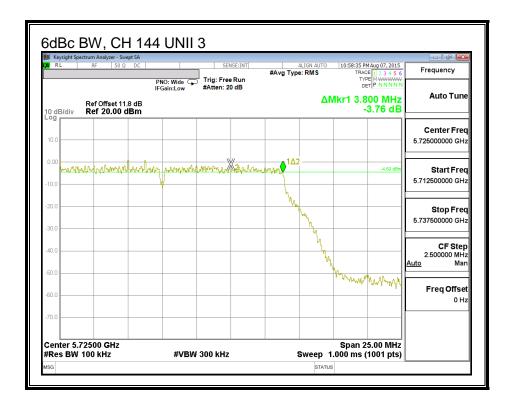


8.37.6. 6 dB BANDWIDTH

LIMITS

FCC §15.407 (e)

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



802.11a CDD 2TX MODE IN THE 5.6 GHz BAND 8.38.

Note: Covered by 802.11n HT20 CDD 2TX MODE.

802.11n HT20 2Tx CDD MODE IN THE 5.6 GHz BAND 8.39.

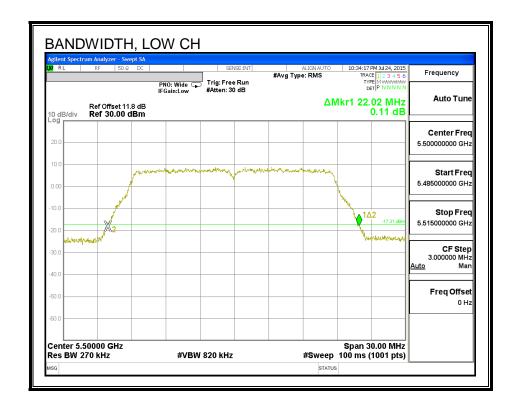
8.39.1. 26 dB BANDWIDTH

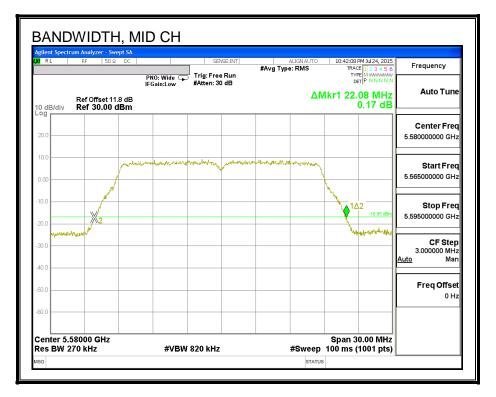
LIMITS

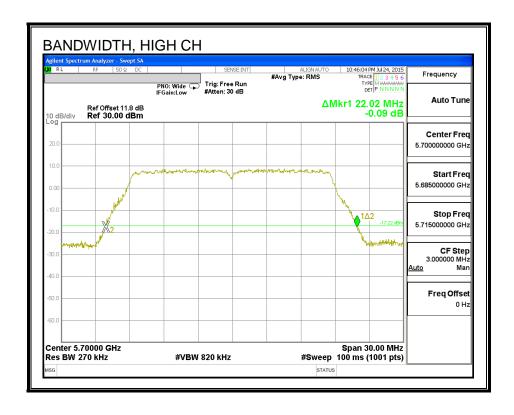
None; for reporting purposes only.

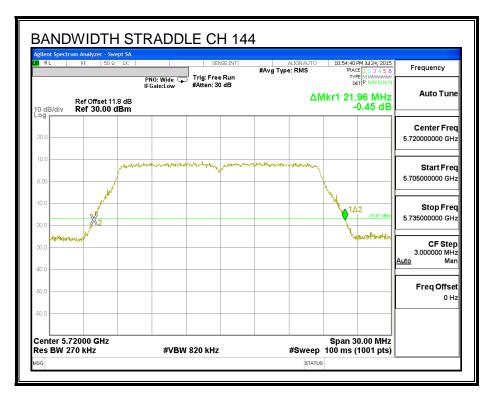
Channel	Frequency	26 dB BW	26 dB BW
		Chain 0	Chain 1
	(MHz)	(MHz)	(MHz)
Low	5500	22.02	21.72
Mid	5580	22.08	21.93
High	5700	22.02	21.84
144	5720	21.96	21.69

26 dB BANDWIDTH, CHAIN 0

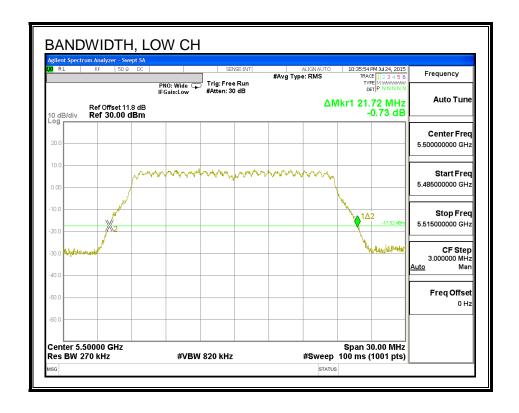


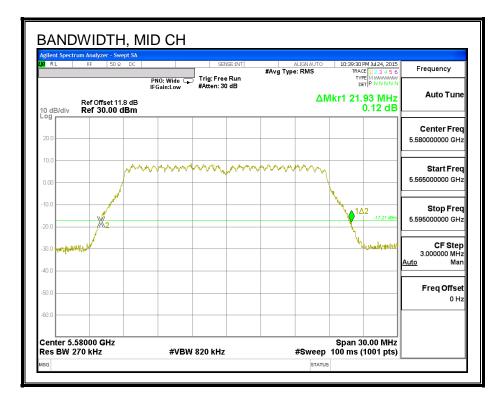


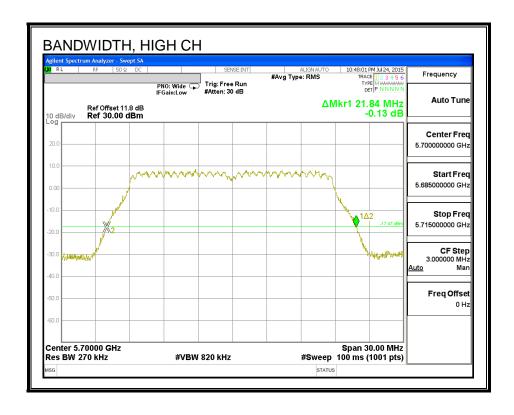


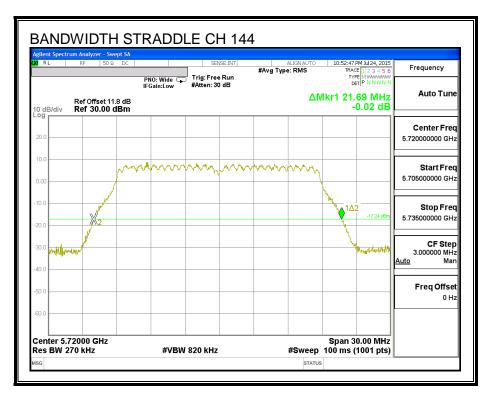


26 dB BANDWIDTH, CHAIN 1









8.39.2. 99% BANDWIDTH

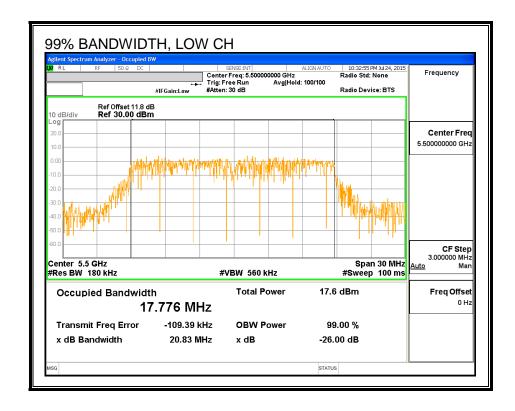
LIMITS

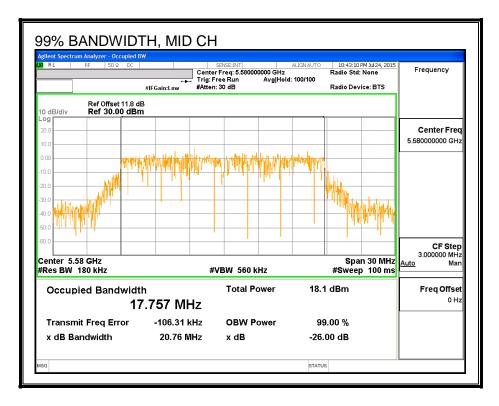
None; for reporting purposes only.

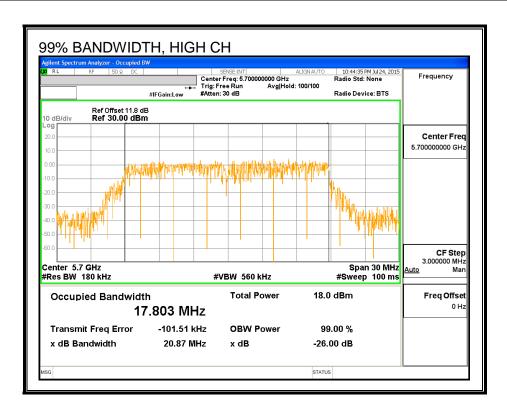
RESULTS

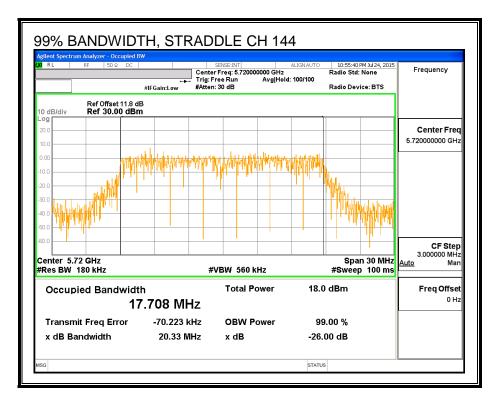
Channel	Frequency	99% BW	99% BW	
G ridinio		Chain 0	Chain 1	
	(MHz)	(MHz)	(MHz)	
Low	5500	17.776	17.707	
Mid	5580	17.757	17.686	
High	5700	17.803	17.699	
144	5720	17.708	17.665	

99% BANDWIDTH, CHAIN 0

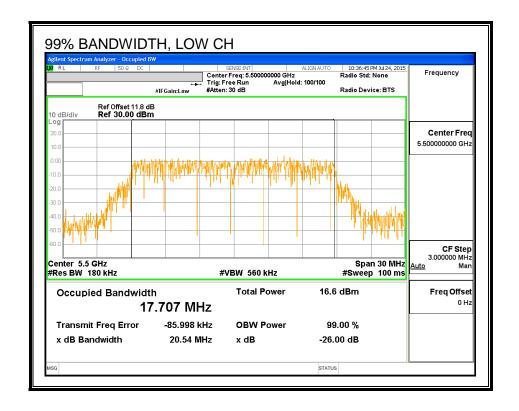


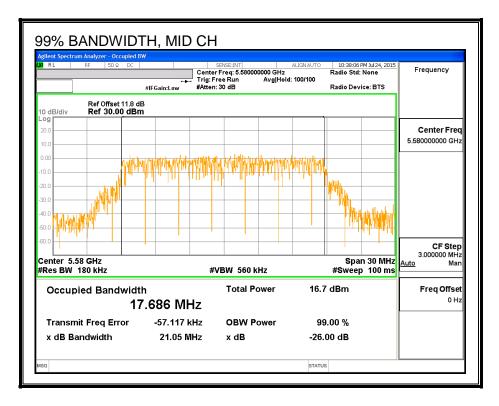


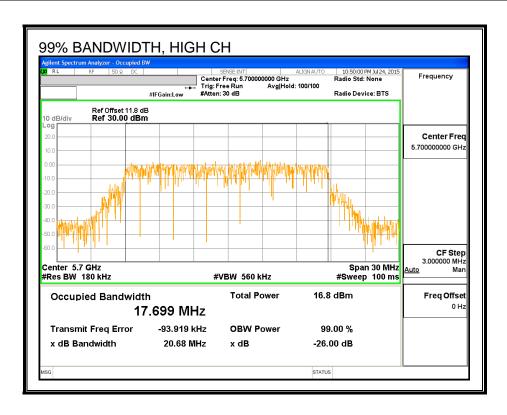


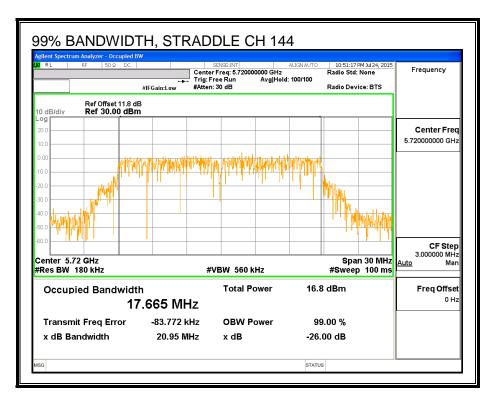


99% BANDWIDTH, CHAIN 1









8.39.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

Average Power Results

Channel	Frequency	Chain 0 Chain 1		Total
		Power	Power	Power
	(MHz)	(dBm)	(dBm)	(dBm)
Low	5500	14.96	14.95	17.97
Mid	5580	15.49	15.73	18.62
High	5700	14.44	14.45	17.46
144	5720	15.41	15.98	18.71

8.39.4. 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.

DIRECTIONAL ANTENNA GAIN

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

Chain 0	Chain 1	Uncorrelated Chains
Antenna	Antenna	Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
2.70	3.10	2.90

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)
2.70	3.10	5.91

RESULTS

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	5500	21.72	17.707	2.90	5.91	23.48	11.00
Mid	5580	21.93	17.686	2.90	5.91	23.48	11.00
High	5700	21.84	17.699	2.90	5.91	23.48	11.00

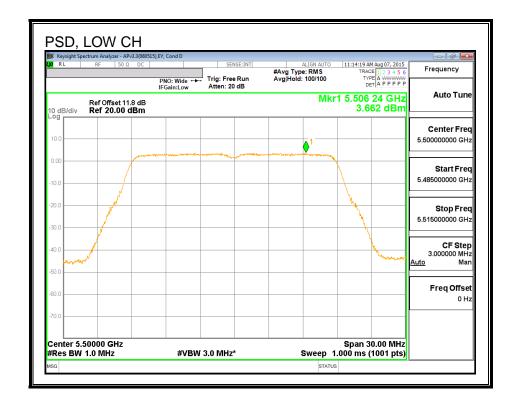
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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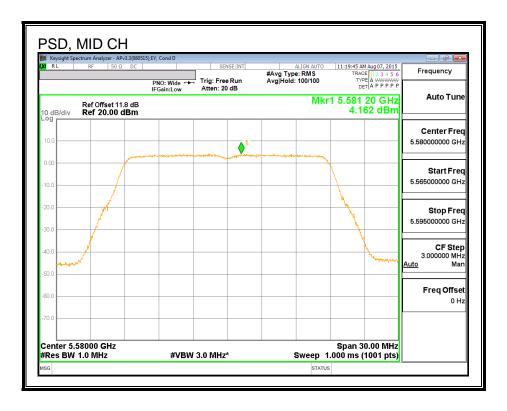
Output Power Results

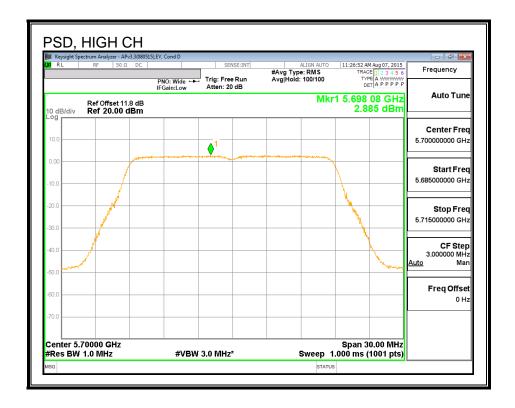
Channel	Frequency	Chain 0	Chain 1	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5500	14.96	14.95	17.97	23.48	-5.52
Mid	5580	15.49	15.73	18.62	23.48	-4.85
High	5700	14.44	14.45	17.46	23.48	-6.02

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	5500	3.66	3.65	6.67	11.00	-4.33
Mid	5580	4.16	4.26	7.22	11.00	-3.78
High	5700	2.89	2.90	5.90	11.00	-5.10

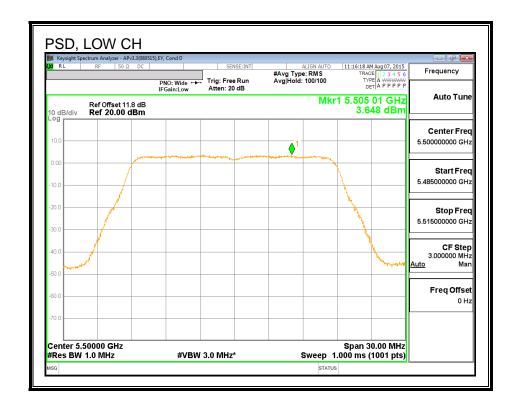
PSD, CHAIN 0

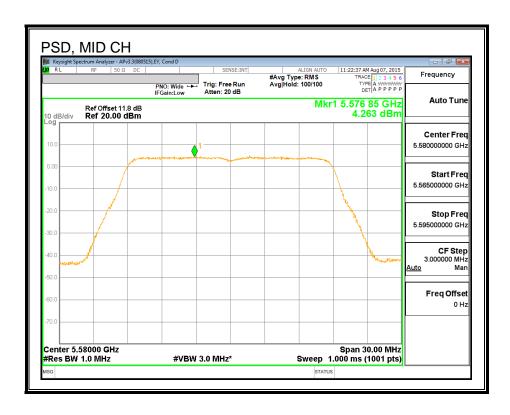


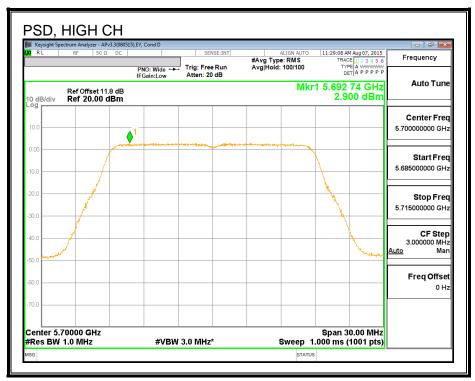




PSD, CHAIN 1







8.39.5. STRADDLE CHANNEL 144 RESULTS

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)
144	5720	15.98	2.90	5.91	23.04	11.00

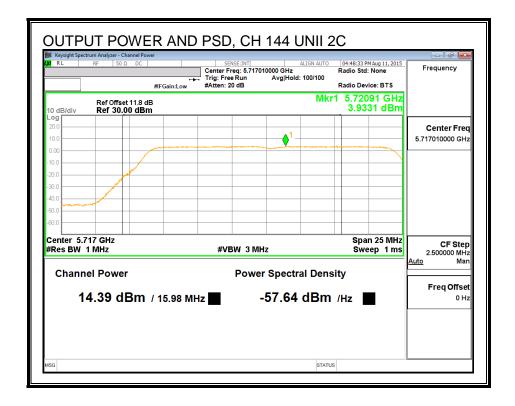
Duty Cycle CF (dB) 0.00	Included in Calculations of Corr'd Power & PSD
-------------------------	--

Output Power Results

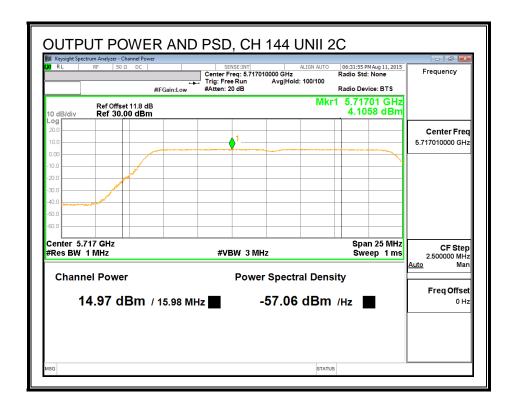
Channel	Frequency	Chain 0	Chain 1	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
144	5720	14.39	14.97	17.70	23.04	-5.34

Channel	Frequency	Chain 0	Chain 1	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
144	5720	3.93	4.11	7.03	11.00	-3.97

CHAIN 0



CHAIN 1



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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)
144	5720	5.98	2.90	5.91	30.00	30.00

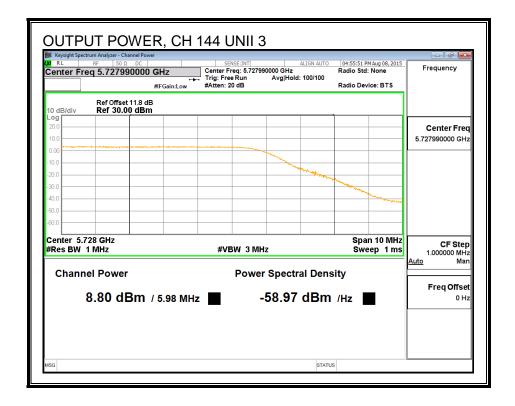
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
--------------------	------	--

Output Power Results

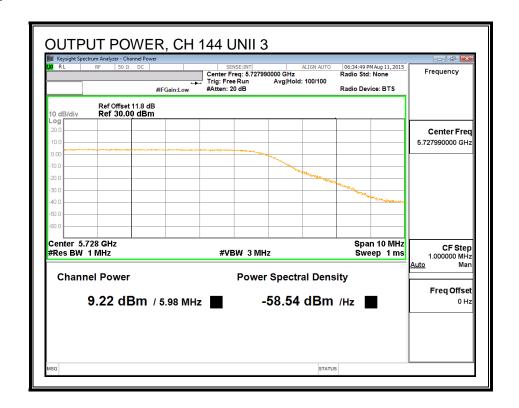
Channel	Frequency	Chain 0	Chain 1	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
144	5720	8.80	9.22	12.03	30.00	-17.97

Channel	Frequency	Chain 0	Chain 1	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
144	5720	3.63	4.09	6.87	30.00	-23.13

CHAIN 0

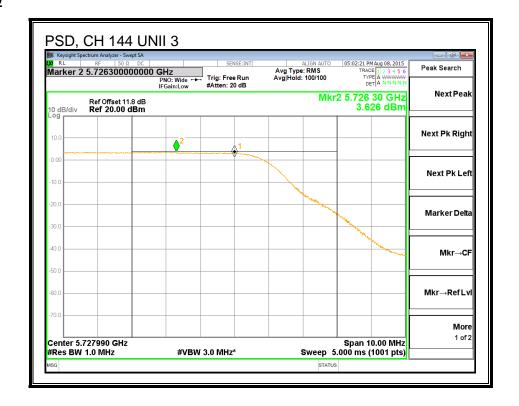


CHAIN 1

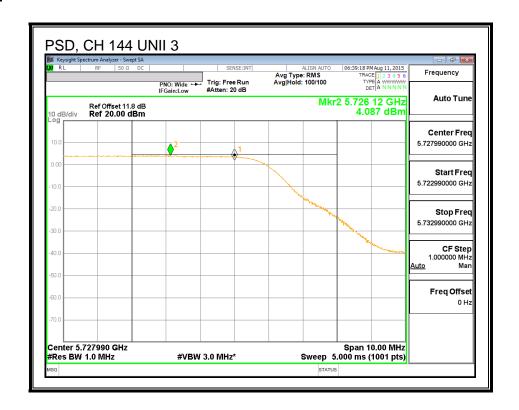


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CHAIN 0



CHAIN 1



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8.39.6. 6 dB BANDWIDTH

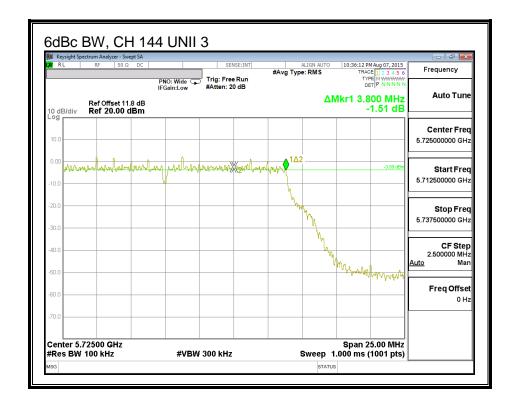
LIMITS

FCC §15.407 (e)

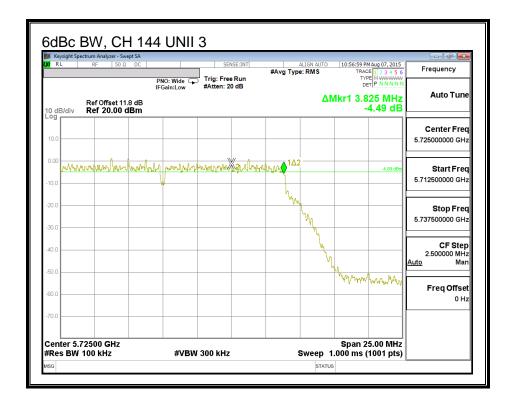
The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

CHAIN 0



CHAIN 1



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802.11n HT20 2Tx STBC/SDM MODE IN THE 5.6 GHz BAND 8.40.

Note: Covered by 802.11n HT20 2Tx CDD MODE

8.41. 802.11n HT40 CHAIN 0 MODE IN THE 5.6 GHz BAND

8.41.1. 26 dB BANDWIDTH

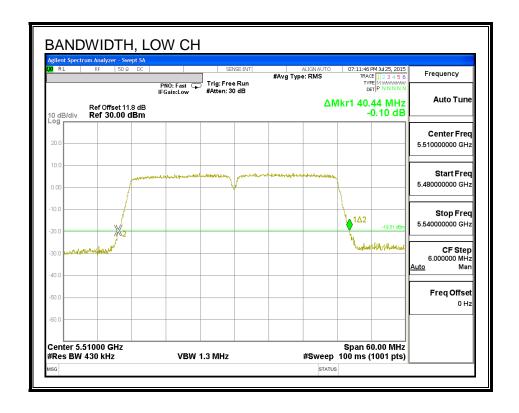
LIMITS

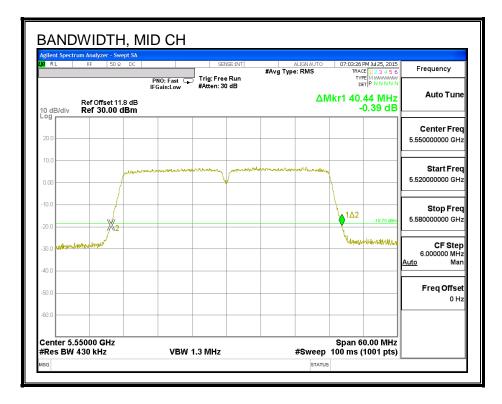
None; for reporting purposes only.

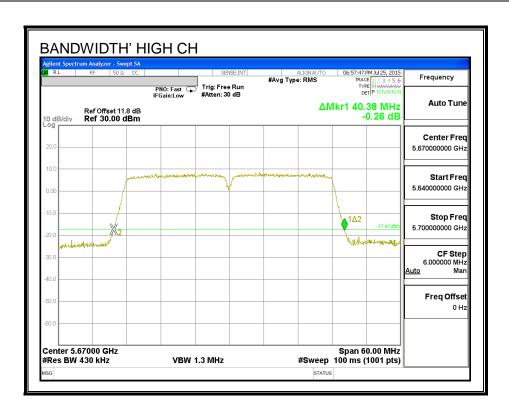
RESULTS

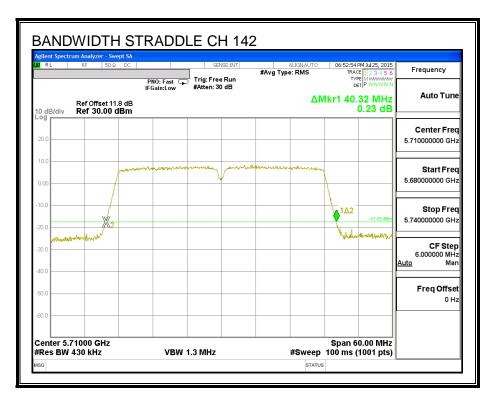
Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Low	5510	40.44
Mid	5550	40.44
High	5670	40.38
142	5710	40.32

26 dB BANDWIDTH









8.41.2. 99% BANDWIDTH

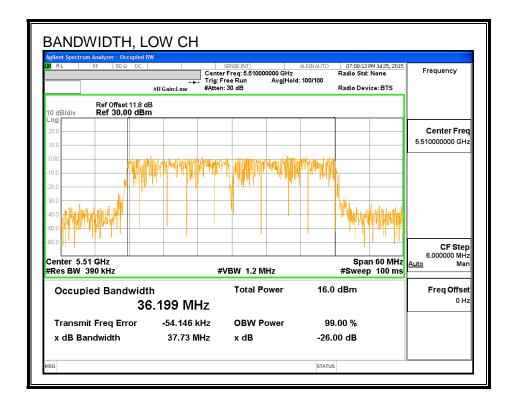
LIMITS

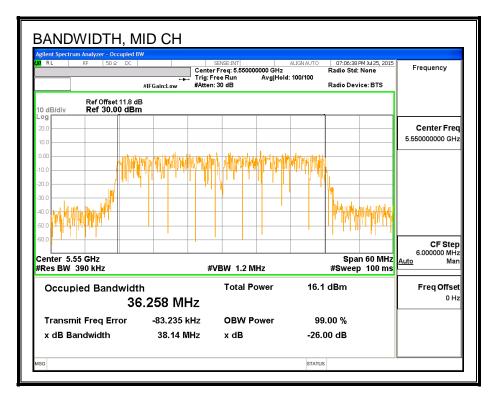
None; for reporting purposes only.

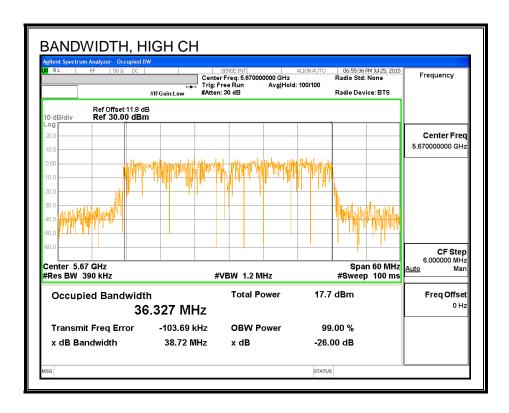
RESULTS

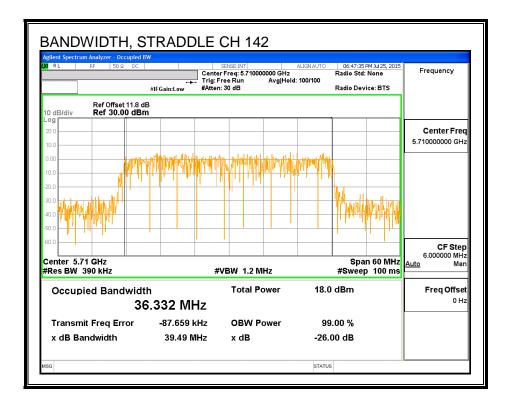
Channel	Frequency	99% Bandwidth		
	(MHz)	(MHz)		
Low	5510	36.199		
Mid	5550	36.258		
High	5670	36.327		
142	5710	36.332		

99% BANDWIDTH









8.41.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency	Power
	(MHz)	(dBm)
Low	5510	14.43
Mid	5550	15.48
High	5670	15.47
142	5710	14.91

8.41.4. 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 peak 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.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

Bandwidth, Antenna Gain, and Limits

Channel	Frequency	Min	Min	Directional	Power	PSD
		26 dB	99%	Gain	Limit	Limit
		BW	BW			
	(MHz)	(MHz)	(MHz)	(dBi)	(dBm)	(dBm)
Low	5510	40.44	36.199	2.70	24.00	11.00
Mid	5550	40.44	36.258	2.70	24.00	11.00
High	5670	40.38	36.327	2.70	24.00	11.00

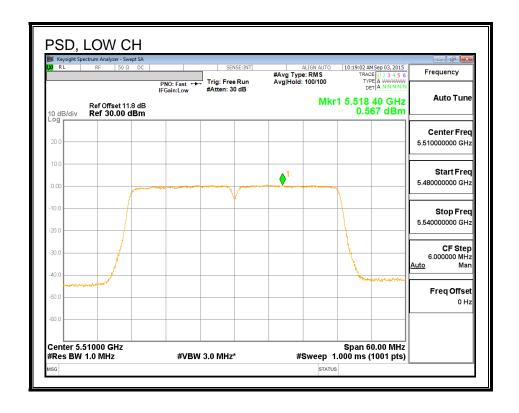
Duty Cycle CF (dB) 0.00	Included in Calculations of Corr'd Power & PSD
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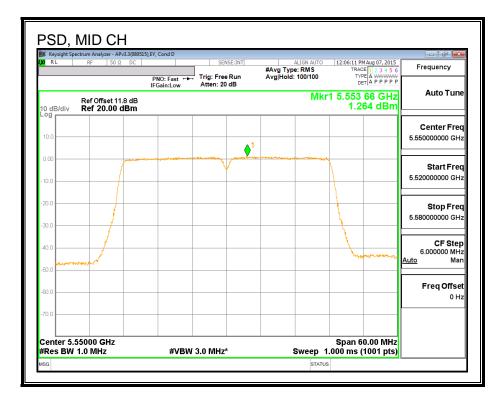
Output Power Results

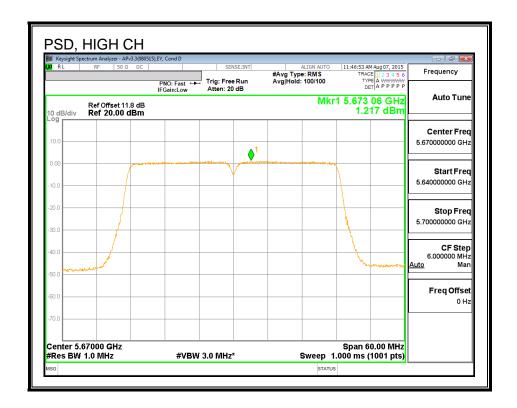
Channel	Frequency	Chain 0	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5510	14.43	14.43	24.00	-9.57
Mid	5550	15.48	15.48	24.00	-8.52
High	5670	15.47	15.47	24.00	-8.53

. 02								
Channel	Frequency	Chain 0	Total	PSD	PSD			
		Meas	Corr'd	Limit	Margin			
		PSD	PSD					
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)			
Low	5510	0.57	0.57	11.00	-10.43			
Mid	5550	1.26	1.26	11.00	-9.74			
High	5670	1.22	1.22	11.00	-9.78			

PSD,







8.41.5. STRADDLE CH 142 RESULTS

UNII-2C BAND

Bandwidth, Antenna Gain, and Limits

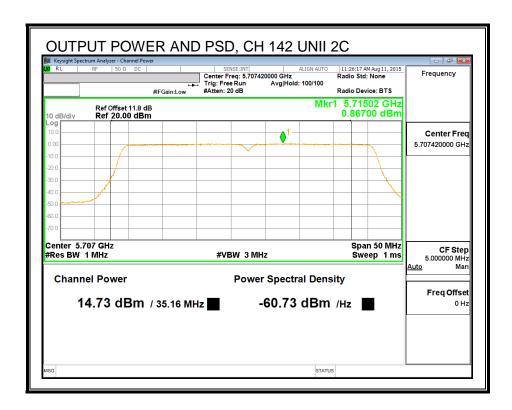
Channel	Frequency	Min	Directional	Directional	Power	PSD
		26 dB	Gain	Gain	Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm)
142	5710	35.16	2.70	2.70	24.00	11.00

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

Output Power Results

Channel	Channel Frequency		Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
142	5710	14.73	14.73	24.00	-9.27

Channel	Frequency	Chain 0	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)



UNII-3 BAND

Antenna Gain and Limit

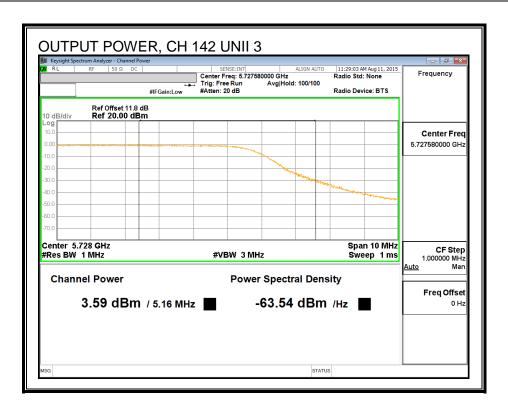
Channel	Frequency	Min	Directional	Power	PSD
		26 dB	Gain	Limit	Limit
		BW			
	(MHz)	(MHz)	(dBi)	(dBm)	(dBm)
142	5710	5.16	2.70	30.00	30.00

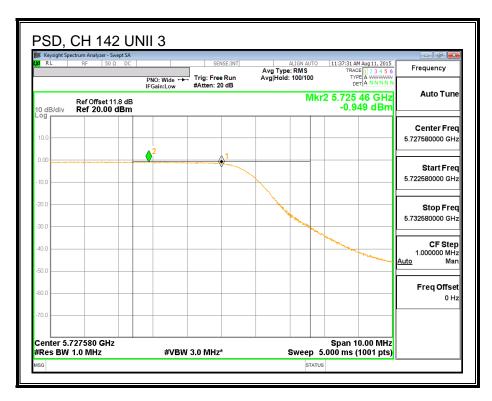
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency	Chain 0	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
142	5710	3.59	3.59	30.00	-26.41

Channel	Frequency	Chain 0	Total	PSD	PSD		
		Meas	Corr'd	Limit	Margin		
		PSD	PSD				
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)		
142	5710	-0.95	-0.95	30.00	-30.95		



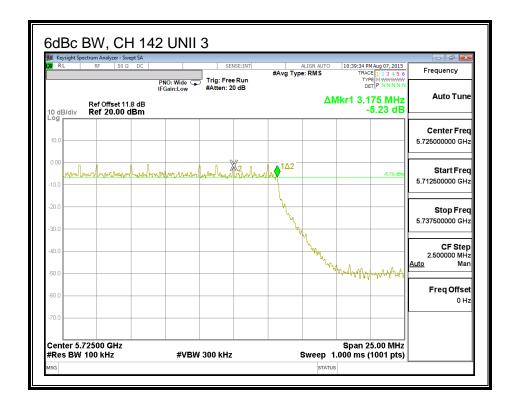


8.41.6. 6 dB BANDWIDTH

LIMITS

FCC §15.407 (e)

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



802.11n HT40 CHAIN 1 MODE IN THE 5.6 GHz BAND 8.42.

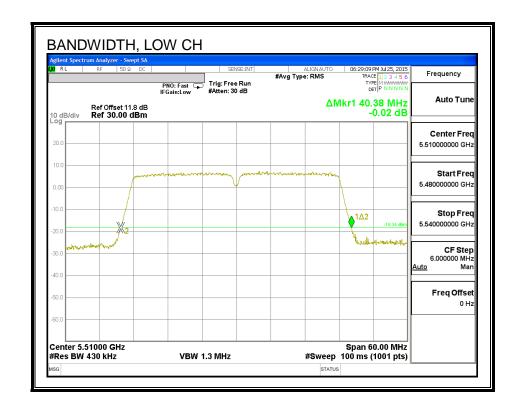
8.42.1. 26 dB BANDWIDTH

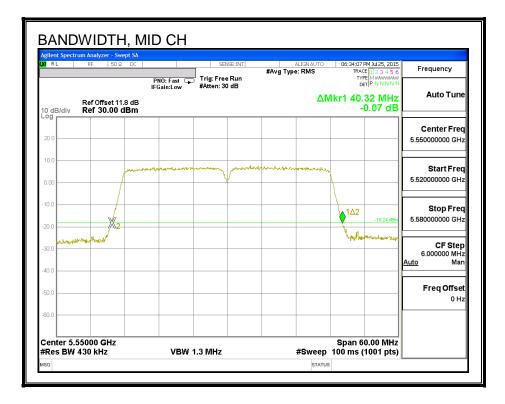
LIMITS

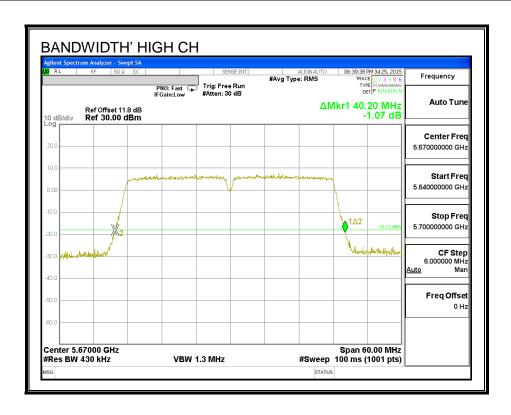
None; for reporting purposes only.

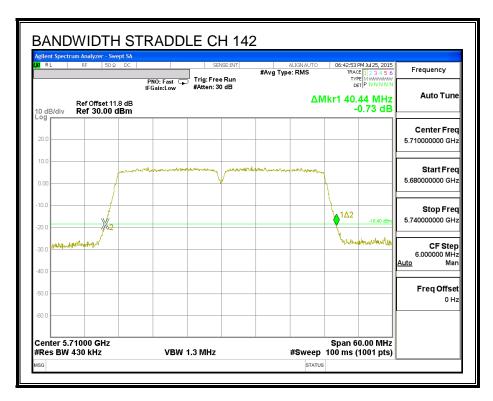
Channel	Frequency	26 dB Bandwidth		
	(MHz)	(MHz)		
Low	5510	40.38		
Mid	5550	40.32		
High	5670	40.20		
142	5710	40.44		

26 dB BANDWIDTH









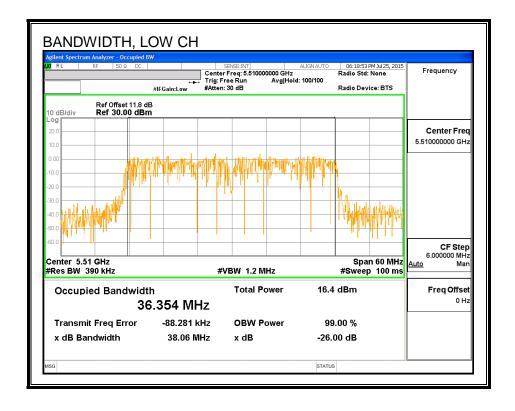
8.42.2. 99% BANDWIDTH

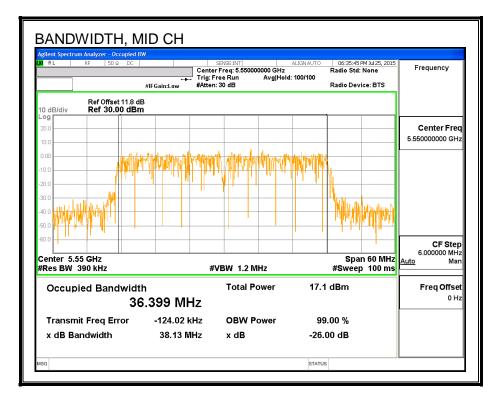
LIMITS

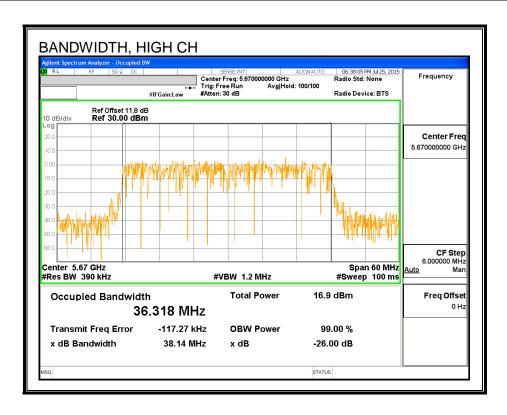
None; for reporting purposes only.

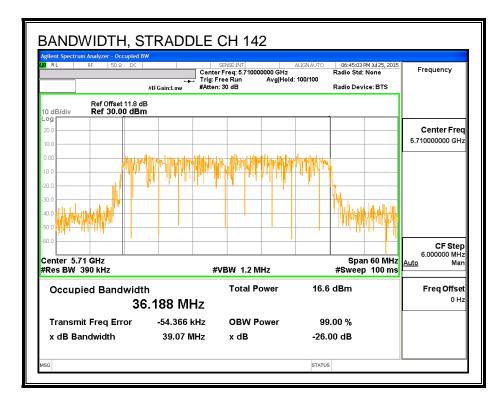
Channel	Frequency	99% Bandwidth	
	(MHz)	(MHz)	
Low	5510	36.354	
Mid	5550	36.399	
High	5670	36.318	
142	5710	36.188	

99% BANDWIDTH









8.42.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

Channel	Frequency	Power
	(MHz)	(dBm)
Low	5510	14.42
Mid	5550	15.97
High	5670	15.41
142	5710	14.98

8.42.4. 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 peak 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.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

Bandwidth, Antenna Gain, and Limits

Channel	Frequency	Min	Min	Directional	Power	PSD
		26 dB	99%	Gain	Limit	Limit
		BW	BW			
	(MHz)	(MHz)	(MHz)	(dBi)	(dBm)	(dBm)
Low	5510	40.38	36.354	3.10	24.00	11.00
Mid	5550	40.32	36.399	3.10	24.00	11.00
High	5670	40.20	36.318	3.10	24.00	11.00

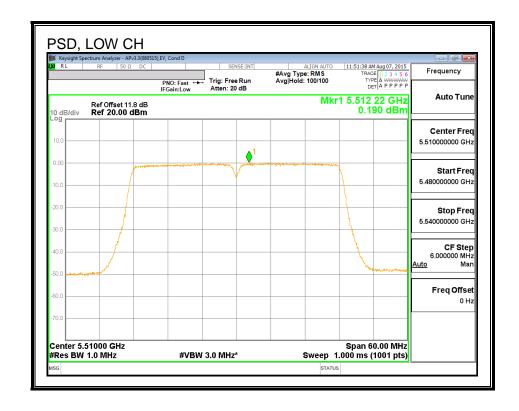
Output Power Results

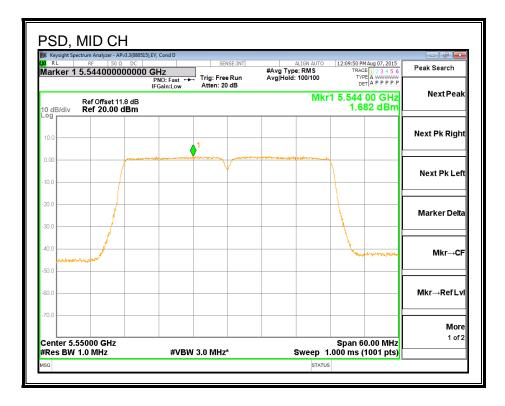
Channel	Frequency	Chain 1	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5510	14.42	14.42	24.00	-9.58
Mid	5550	15.97	15.97	24.00	-8.03
High	5670	15.41	15.41	24.00	-8.59

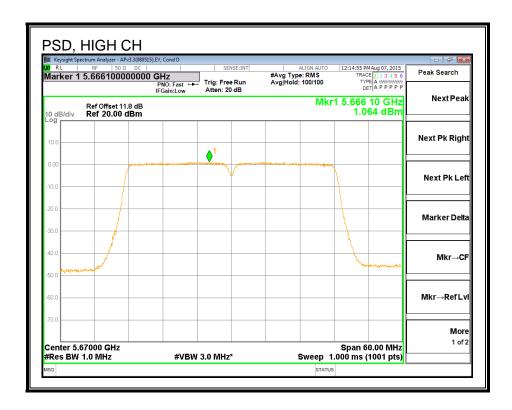
PSD Results

Channel	Frequency	Chain 1	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5510	0.19	0.19	11.00	-10.81
Mid	5550	1.68	1.68	11.00	-9.32
High	5670	1.06	1.06	11.00	-9.94

PSD,







8.42.5. STRADDLE CH 142 RESULTS

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	35.22	3.10	3.10	24.00	11.00

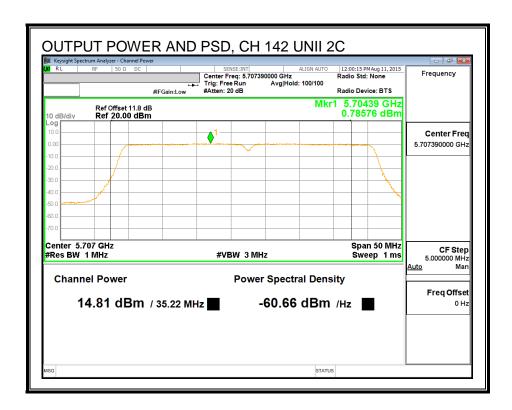
Duty Cycle CF (dB) 0.00	Included in Calculations of Corr'd Power & PSD
-------------------------	--

Output Power Results

Channel	Frequency	Chain 1	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
142	5710	14.81	14.81	24.00	-9.19

PSD Results

Channel	Frequency	Chain 1	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
142	5710	0.79	0.79	11.00	-10.21



UNII-3 BAND

Antenna Gain and Limit

Channel	Frequency	Min	Directional	Power	PSD
		26 dB	Gain	Limit	Limit
		BW			
	(MHz)	(MHz)	(dBi)	(dBm)	(dBm)
142	5710	5.22	3.10	30.00	30.00

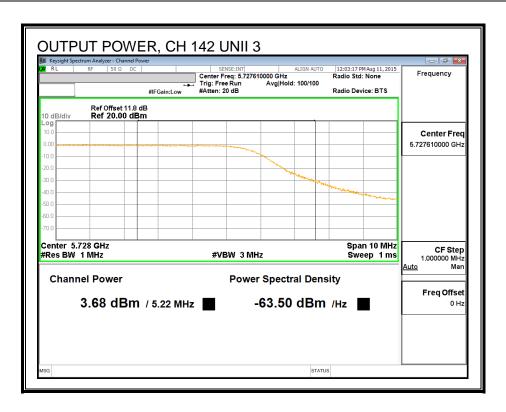
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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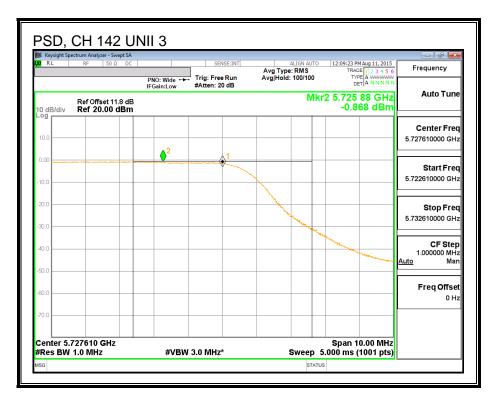
Output Power Results

Channel	Frequency	Chain 1	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
142	5710	3.68	3.68	30.00	-26.32

PSD Results

Channel	Frequency	Chain 1	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
142	5710	-0.87	-0.87	30.00	-30.87



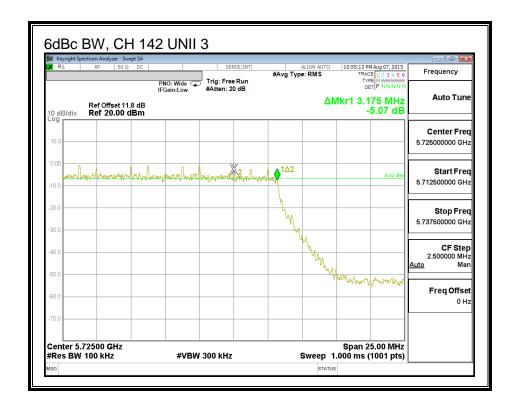


8.42.6. 6 dB BANDWIDTH

LIMITS

FCC §15.407 (e)

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



8.43. 802.11n HT40 2Tx CDD MODE IN THE 5.6 GHz BAND

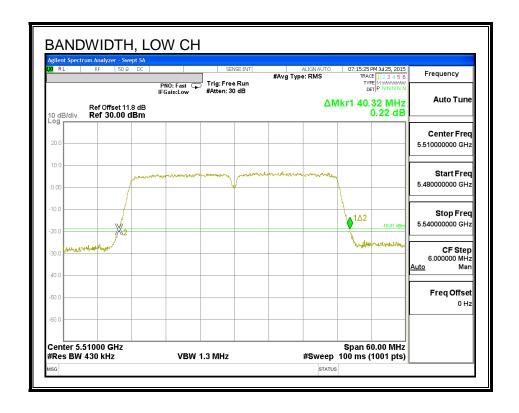
8.43.1. 26 dB BANDWIDTH

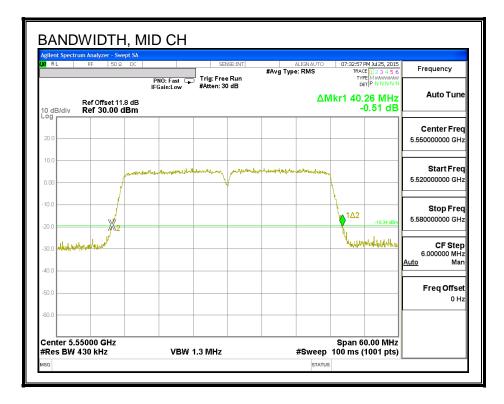
LIMITS

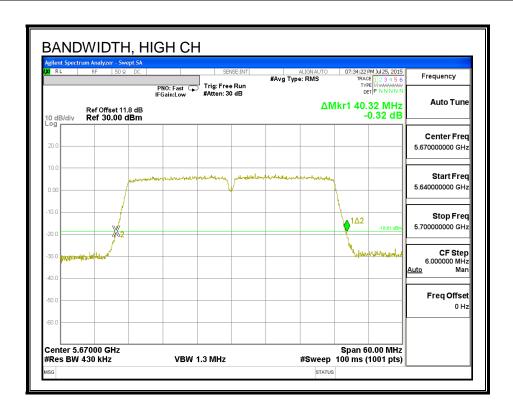
None; for reporting purposes only.

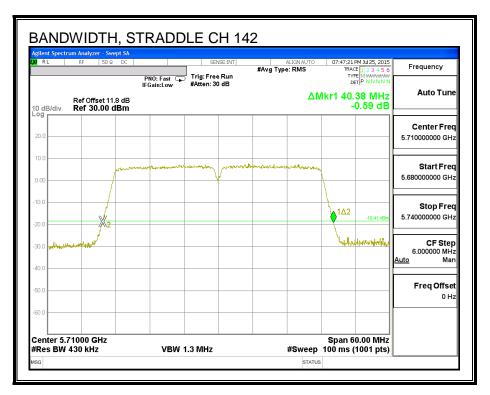
Channel	Frequency	26 dB BW	26 dB BW	
		Chain 0	Chain 1	
	(MHz)	(MHz)	(MHz)	
Low	5510	40.32	40.02	
Mid	5550	40.26	39.96	
High	5670	40.32	40.08	
142	5710	40.38	40.02	

26 dB BANDWIDTH, CHAIN 0

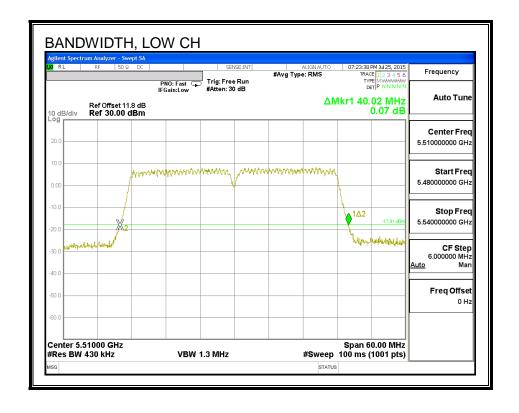


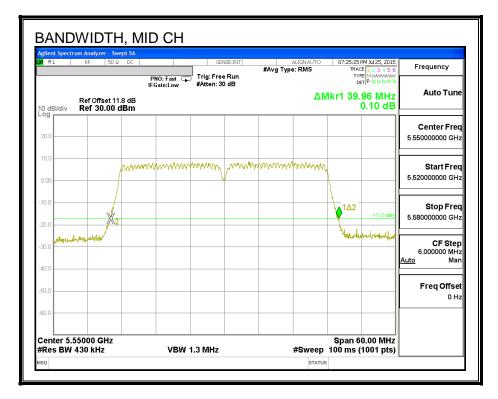


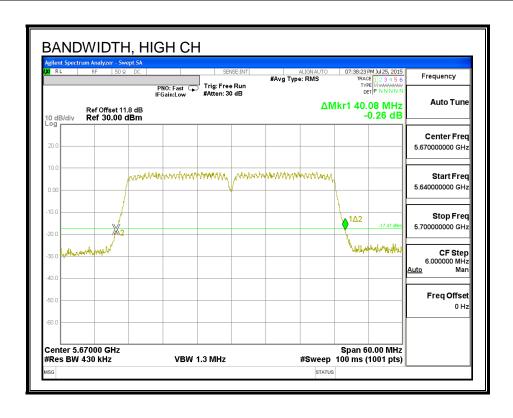


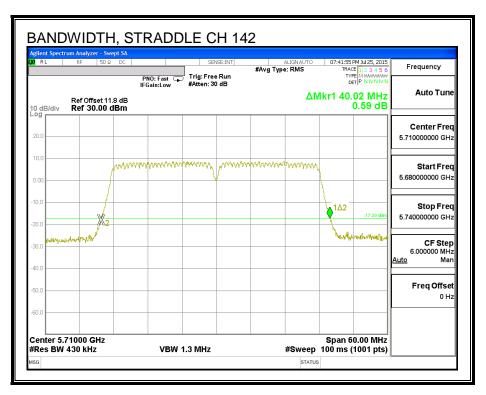


26 dB BANDWIDTH, CHAIN 1









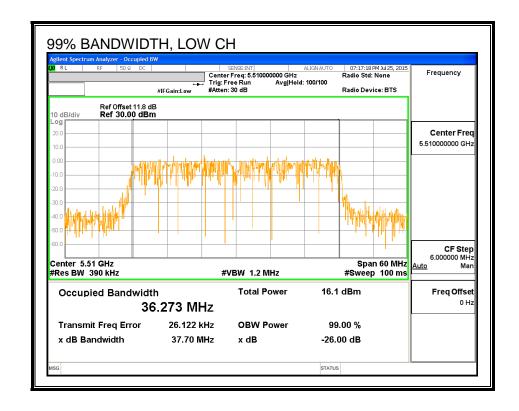
8.43.2. 99% BANDWIDTH

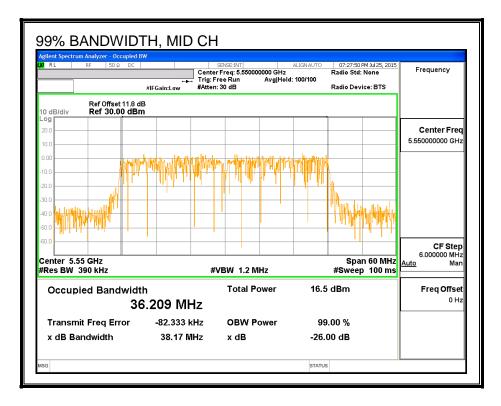
LIMITS

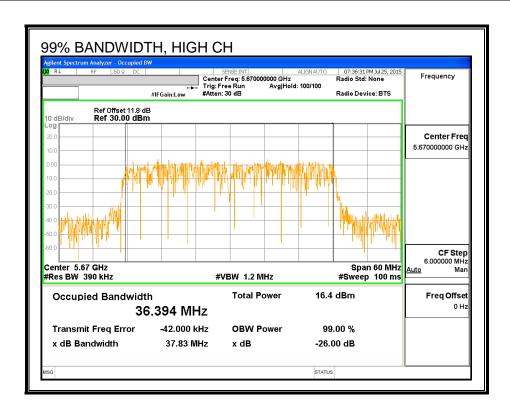
None; for reporting purposes only.

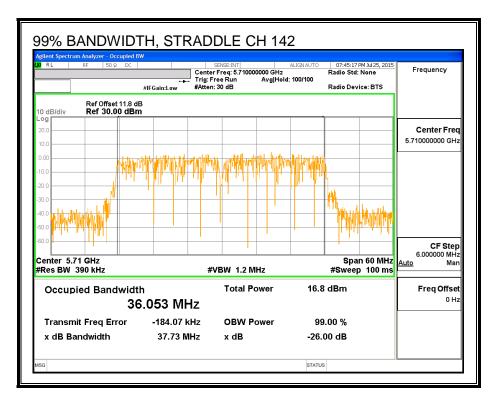
Channel	Frequency	99% BW	99% BW	
		Chain 0	Chain 1	
	(MHz)	(MHz)	(MHz)	
Low	5510	36.273	36.223	
Mid	5550	36.209	36.286	
High	5670	36.394	36.172	
142	5710	36.053	36.282	

99% BANDWIDTH, CHAIN 0

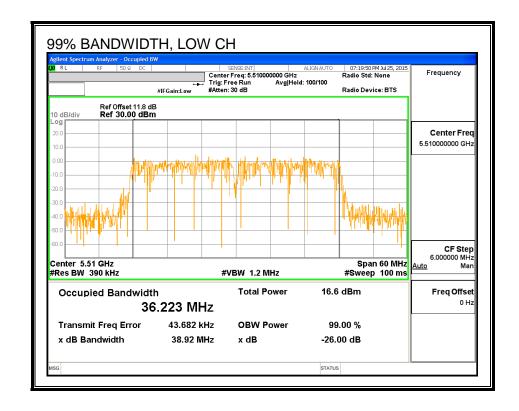


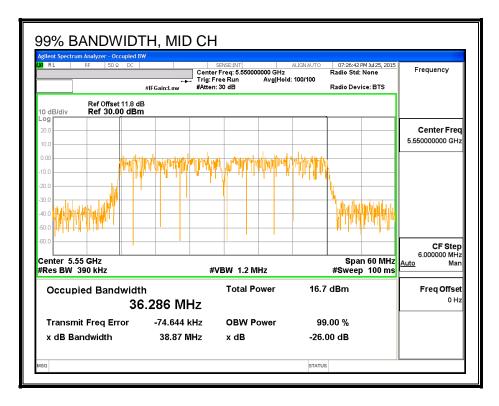


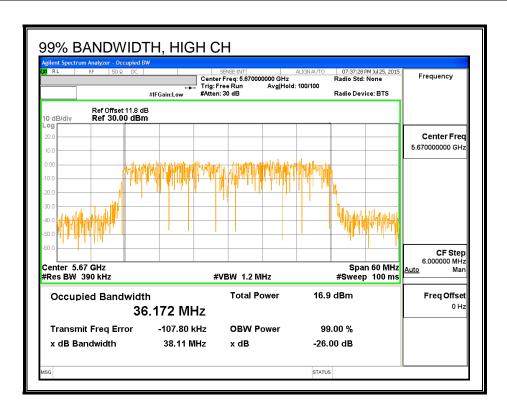


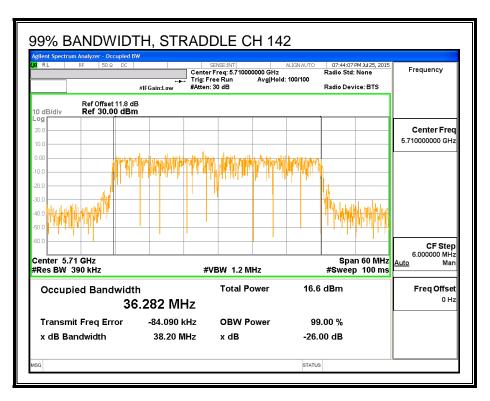


99% BANDWIDTH, CHAIN 1









8.43.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

Channel	Frequency	Chain 0	Chain 1	Total
		Power	Power	Power
	(MHz)	(dBm)	(dBm)	(dBm)
Low	5510	13.42	13.47	16.46
Mid	5590	15.41	15.93	18.69
High	5670	14.45	14.46	17.47
142	5710	14.40	14.48	17.45

8.43.4. 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.

DIRECTIONAL ANTENNA GAIN

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

Chain 0	Chain 1	Uncorrelated Chains
Antenna	Antenna	Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
2.70	3.10	2.90

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)
2.70	3.10	5.91

RESULTS

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	40.02	36.223	2.90	5.91	24.00	11.00
Mid	5550	39.96	36.209	2.90	5.91	24.00	11.00
High	5670	40.08	36.172	2.90	5.91	24.00	11.00

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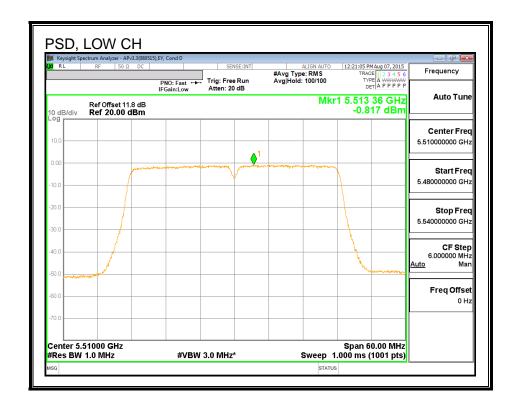
Output Power Results

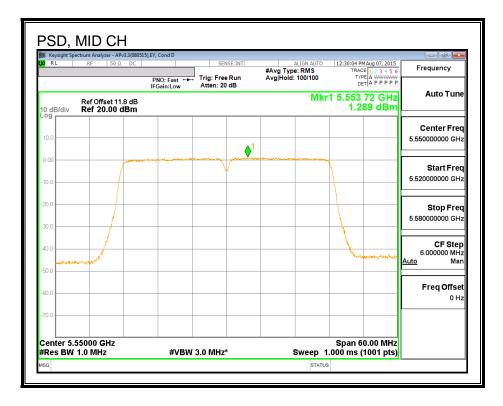
Channel	Frequency	Chain 0	Chain 1	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5510	13.42	13.47	16.46	24.00	-7.54
Mid	5550	15.41	15.93	18.69	24.00	-5.31
High	5670	14.45	14.46	17.47	24.00	-6.53

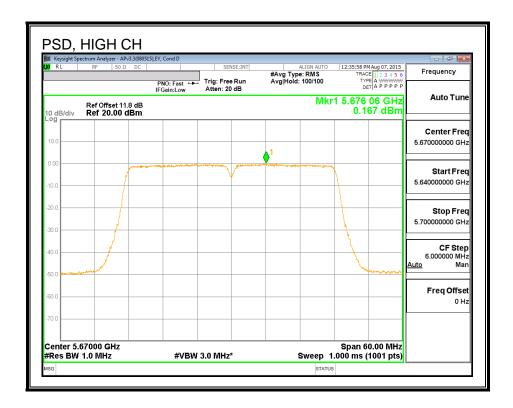
PSD Results

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	-0.82	-0.76	2.22	11.00	-8.78
Mid	5550	1.29	1.46	4.39	11.00	-6.61
High	5670	0.17	0.19	3.19	11.00	-7.81

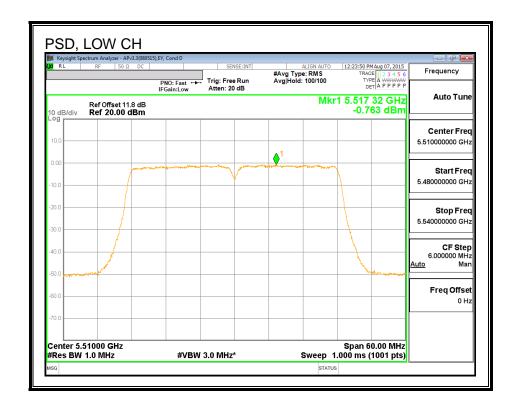
PSD, CHAIN 0

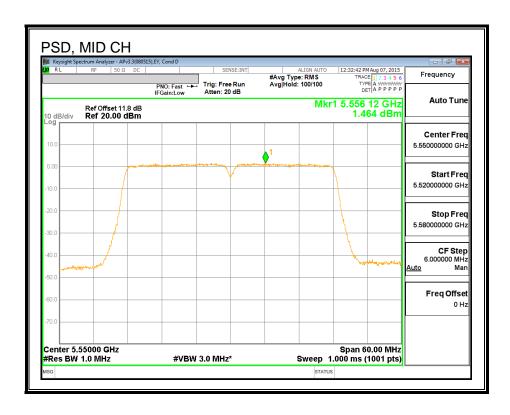


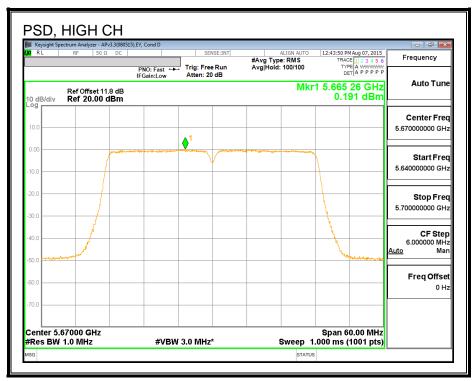




PSD, CHAIN 1







8.43.5. STRADDLE CHANNEL 142 RESULTS

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	2.90	5.91	24.00	11.00

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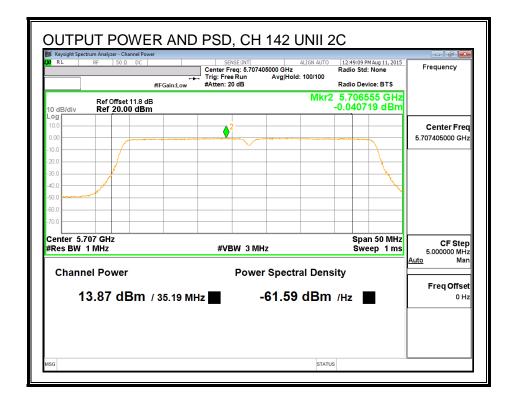
Output Power Results

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	13.87	13.93	16.91	24.00	-7.09

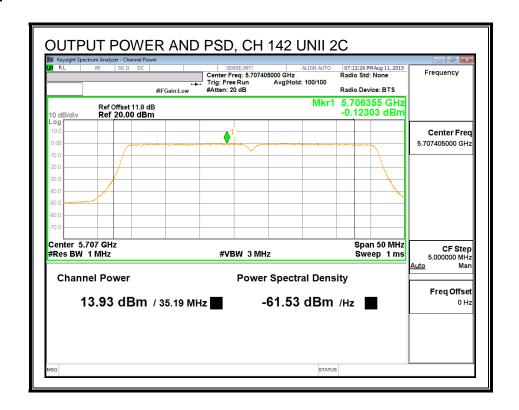
PSD Results

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	-0.04	-0.12	2.93	11.00	-8.07

CHAIN 0



CHAIN 1



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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	2.90	5.91	30.00	30.00

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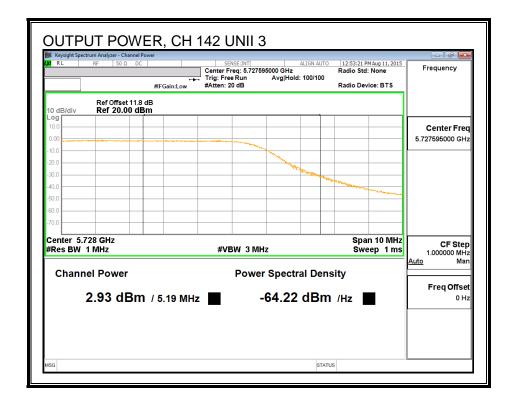
Output Power Results

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	2.93	2.73	5.84	30.00	-24.16

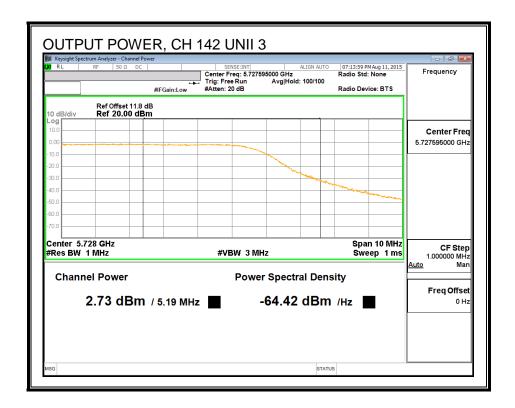
PSD Results

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	-1.50	-1.70	1.41	30.00	-28.59

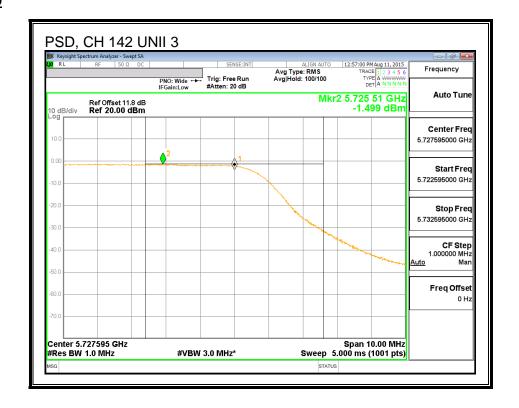
CHAIN 0



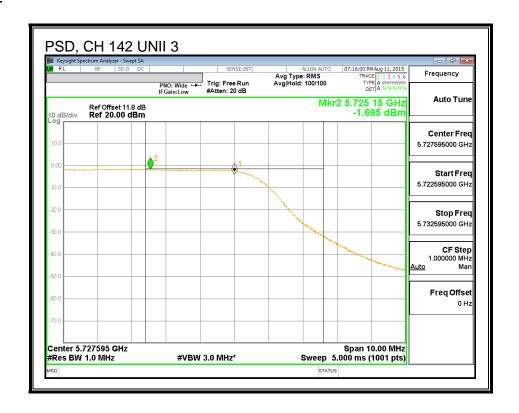
CHAIN 1



CHAIN 0



CHAIN 1



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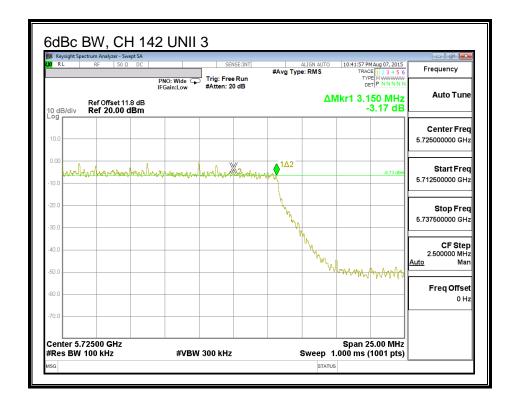
8.43.6. 6 dB BBANDWIDTH

LIMITS

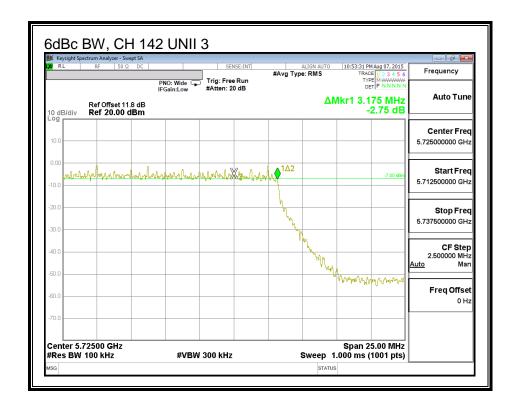
FCC §15.407 (e)

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

CHAIN 0



CHAIN 1



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8.44. 802.11n HT40 2Tx STBC/SDM MODE IN THE 5.6 GHz BAND

Note: Covered by 802.11n HT40 2Tx CDD MODE