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8.9.3. AVERAGE POWER

<u>LIMITS</u>

None; for reporting purposes only.

<u>RESULTS</u>

Channel	Frequency	Power
	(MHz)	(dBm)
Low	5260	16.83
Mid	5300	16.70
High	5320	16.40

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8.9.4. OUTPUT POWER AND PSD

<u>LIMITS</u>

FCC §15.407 (a) (2)

For the band 5.25–5.35 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.

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RESULTS

Bandwidth, Antenna Gain, and Limits

Channel	Frequency	Min	Directional	Power	PSD
		26 dB	Gain	Limit	Limit
		BW			
	(MHz)	(MHz)	(dBi)	(dBm)	(dBm)
Low	5260	22.00	3.30	24.00	11.00
Mid	5300	22.00	3.30	24.00	11.00
High	5320	21.95	3.30	24.00	11.00

0.00

Duty Cycle CF (dB)

Included in Calculations of Corr'd Power & PSD

Output Power Results

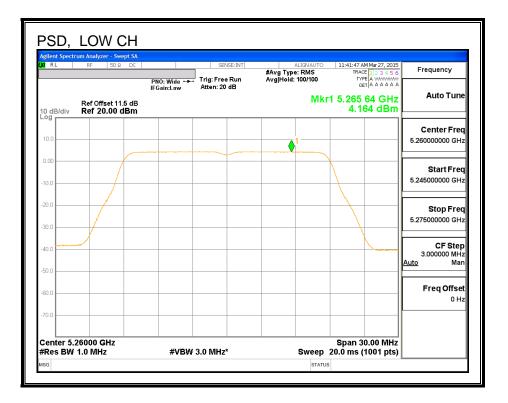
Channel	Frequency	Antenna B	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5260	16.83	16.83	24.00	-7.17
Mid	5300	16.70	16.70	24.00	-7.30
High	5320	16.40	16.40	24.00	-7.60

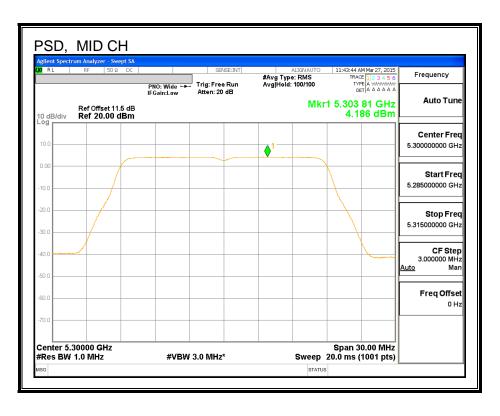
PSD Results

Channel	Frequency	Antenna B	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5260	4.16	4.16	11.00	-6.84
Mid	5300	4.19	4.19	11.00	-6.81
High	5320	4.07	4.07	11.00	-6.93

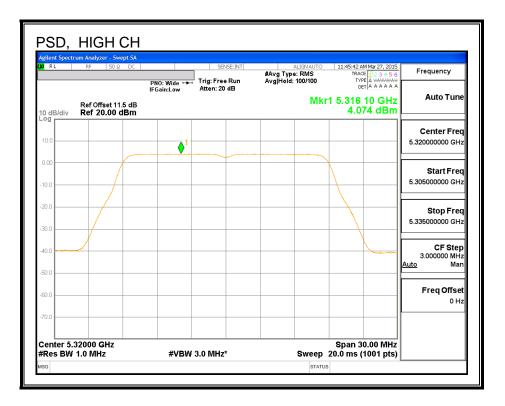
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<u>PSD</u>





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8.10. 802.11n HT20 2Tx CDD MODE IN THE 5.3 GHz BAND

8.10.1. 26 dB BANDWIDTH

<u>LIMITS</u>

None; for reporting purposes only.

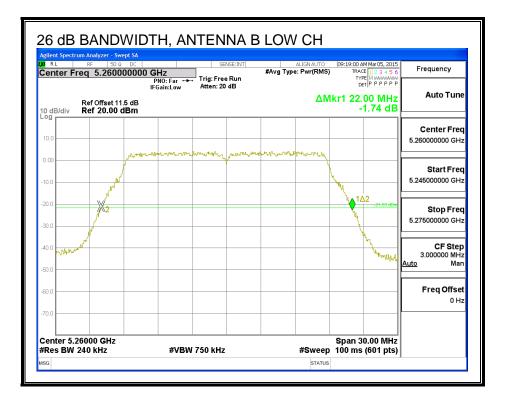
RESULTS

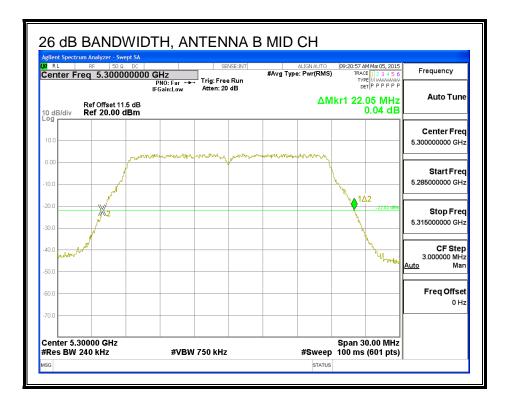
Channel	Frequency	26 dB BW	26 dB BW
		Antenna B	Antenna A
	(MHz)	(MHz)	(MHz)
Low	5260	22.00	21.95
Mid	5300	22.05	21.95
High	5320	22.00	21.95

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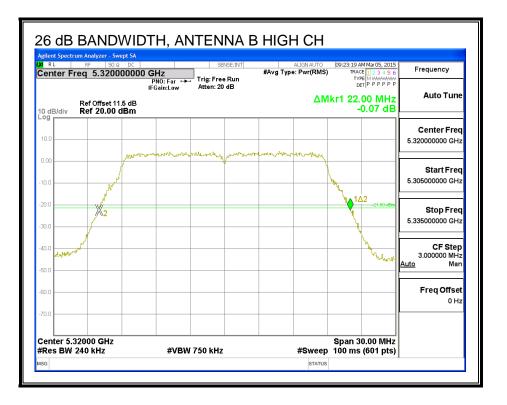
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26 dB BANDWIDTH, ANTENNA B

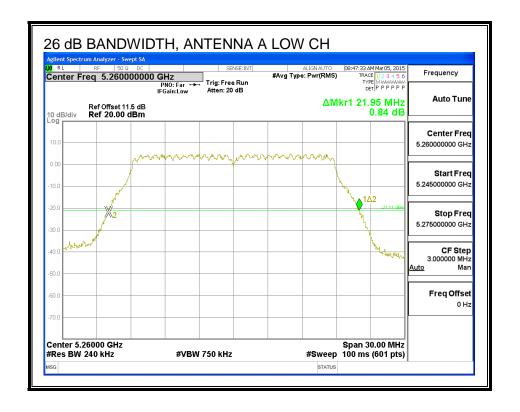




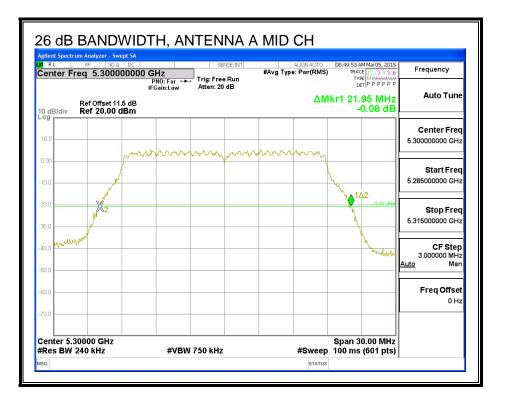
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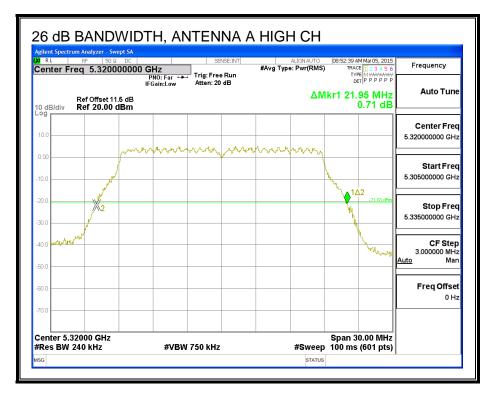


26 dB BANDWIDTH, ANTENNA A



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8.10.2. 99% BANDWIDTH

<u>LIMITS</u>

None; for reporting purposes only.

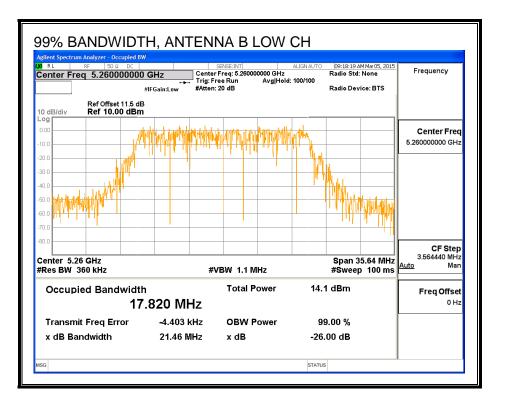
RESULTS

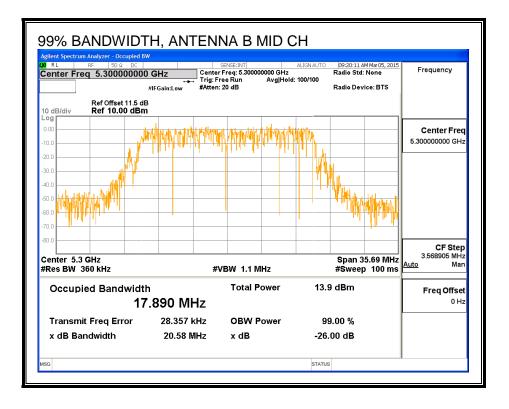
Channel	Frequency	99% BW	99% BW
		Chain 0	Chain 1
	(MHz)	(MHz)	(MHz)
Low	5260	17.82	17.83
Mid	5300	17.89	17.78
High	5320	17.86	17.84

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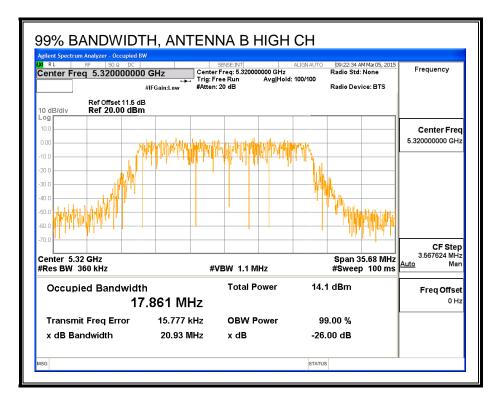
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99% BANDWIDTH, ANTENNA B

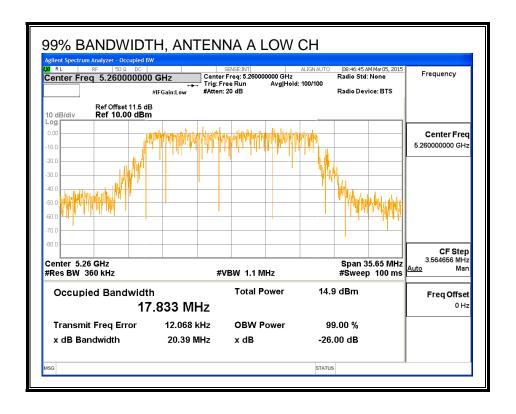




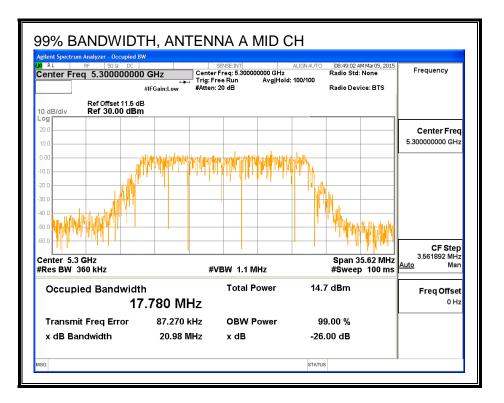
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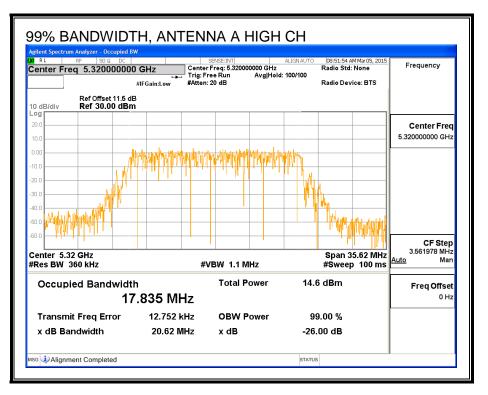


99% BANDWIDTH, ANTENNA A



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8.10.3. AVERAGE POWER

<u>LIMITS</u>

None; for reporting purposes only.

RESULTS

Average Power Results

Channel	Frequency	Antenna B Antenna A		Total
		Power	Power	Power
	(MHz)	(dBm)	(dBm)	(dBm)
Low	5260	15.38	15.35	18.38
Mid	5300	15.44	15.37	18.42
High	5320	15.23	15.41	18.33

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8.10.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 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:

Antenna B	Antenna A	Uncorrelated Chains	
Antenna	Antenna	Directional	
Gain	Gain	Gain	
(dBi)	(dBi)	(dBi)	
3.30	3.10	3.20	

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

Antenna B	Antenna A	Correlated Chains
Antenna	Antenna	Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
3.30	3.10	6.21

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RESULTS

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)
Low	5260	21.95	3.20	6.21	24.00	10.79
Mid	5300	21.95	3.20	6.21	24.00	10.79
High	5320	21.95	3.20	6.21	24.00	10.79

Duty Cycle CF (dB) 0.00

Included in Calculations of Corr'd Power & PSD

Output Power Results

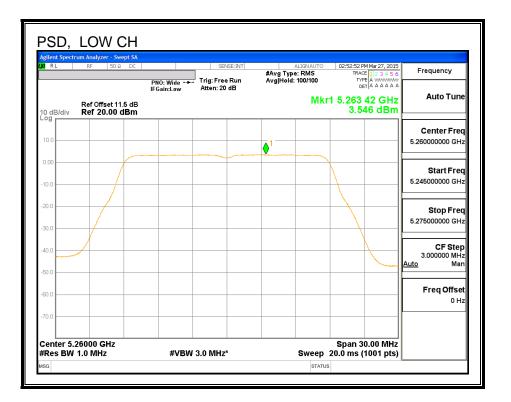
Channel	Frequency	Antenna B	Antenna A	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5260	15.38	15.35	18.38	24.00	-5.62
Mid	5300	15.44	15.37	18.42	24.00	-5.58
High	5320	15.23	15.41	18.33	24.00	-5.67

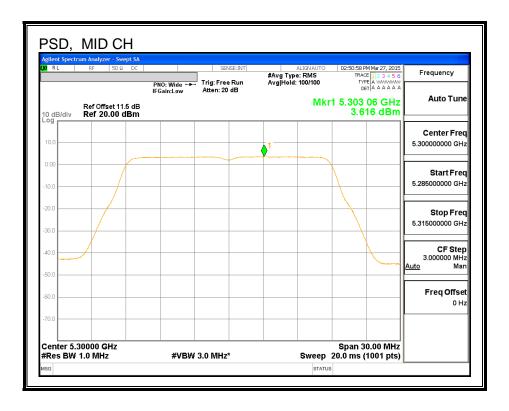
PSD Results

Channel	Frequency	Antenna B	Antenna A	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5260	3.55	3.34	6.45	10.79	-4.34
Mid	5300	3.62	3.52	6.58	10.79	-4.21
High	5320	3.27	3.17	6.23	10.79	-4.56

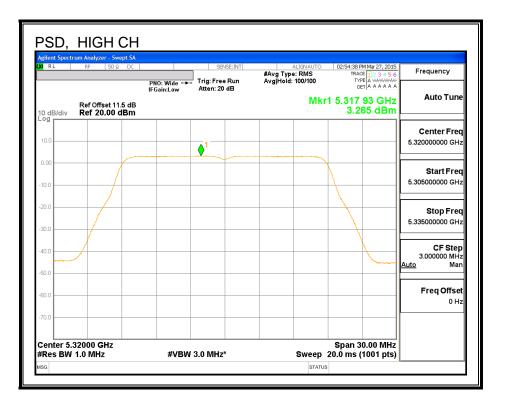
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PSD, ANTENNA B

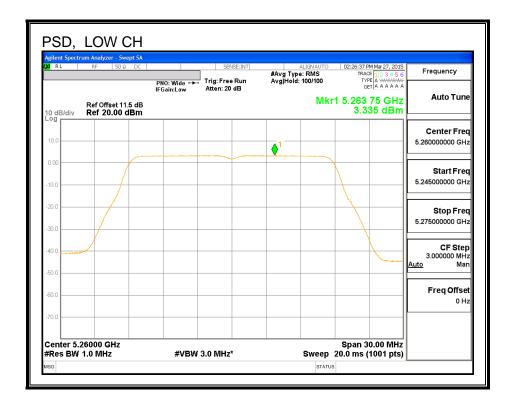




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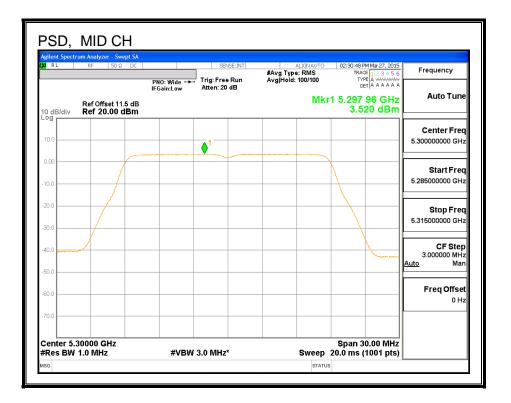


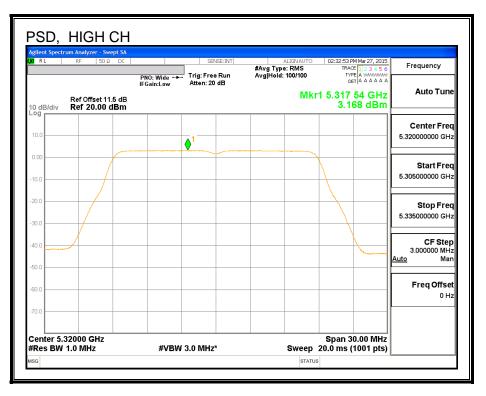
PSD, ANTENNA A



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8.11. 802.11n HT20 2Tx STBC MODE IN THE 5.3 GHz BAND

8.11.1. 26 dB BANDWIDTH

<u>LIMITS</u>

None; for reporting purposes only.

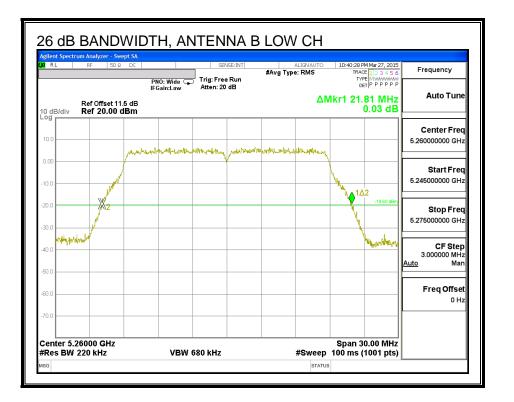
RESULTS

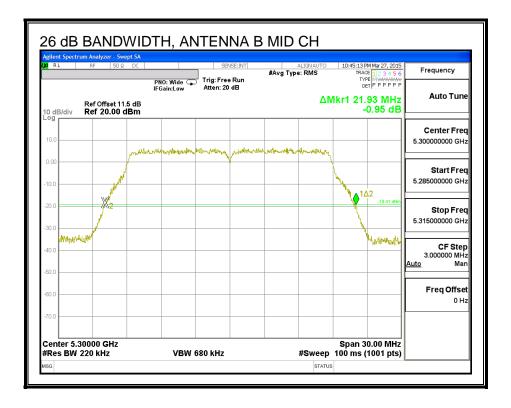
Channel	Frequency	26 dB BW	26 dB BW	
		Antenna B	Antenna A	
	(MHz)	(MHz)	(MHz)	
Low	5260	21.81	21.78	
Mid	5300	21.93	21.72	
High	5320	21.87	21.81	

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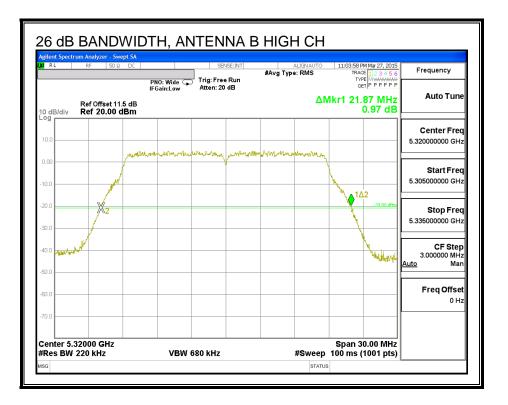
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26 dB BANDWIDTH, ANTENNA B

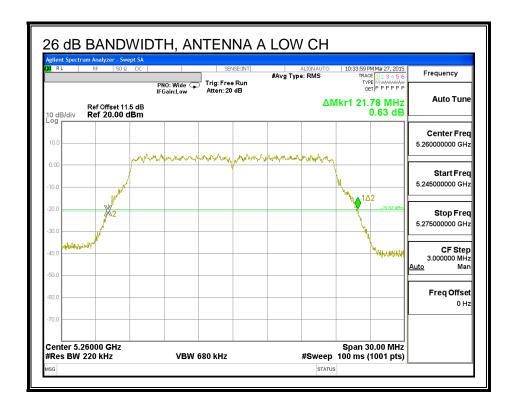




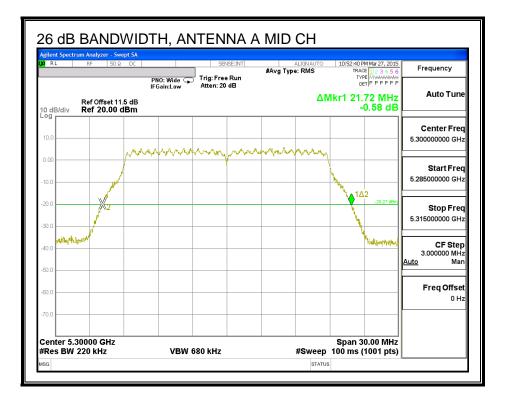
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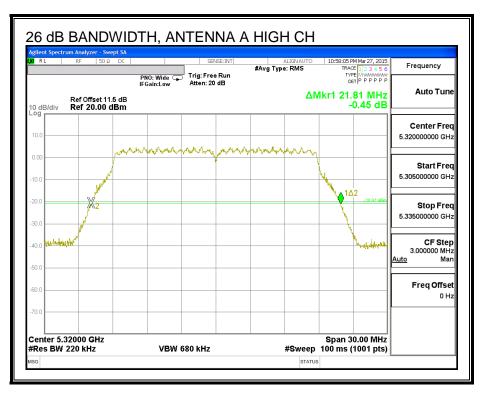


26 dB BANDWIDTH, ANTENNA A



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8.11.2. 99% BANDWIDTH

<u>LIMITS</u>

None; for reporting purposes only.

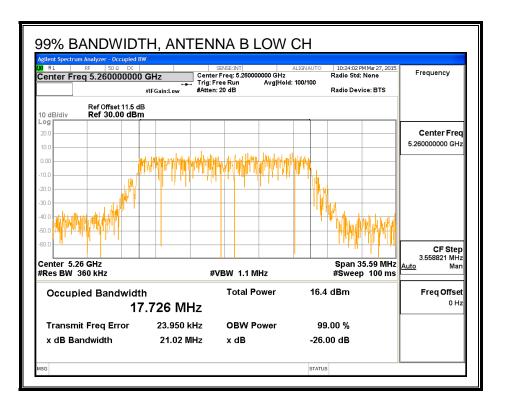
<u>RESULTS</u>

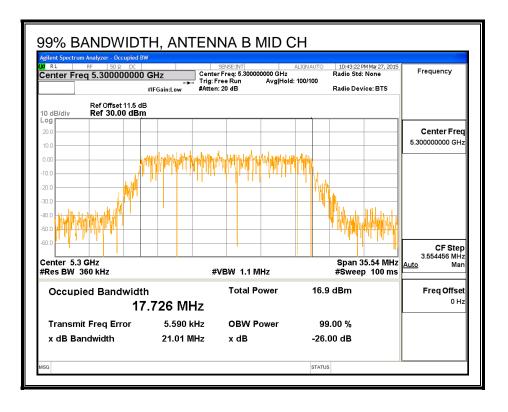
Channel	Frequency	99% BW	99% BW
		Antenna B	Antenna A
	(MHz)	(MHz)	(MHz)
Low	5260	17.726	17.768
Mid	5300	17.726	17.819
High	5320	17.703	17.847

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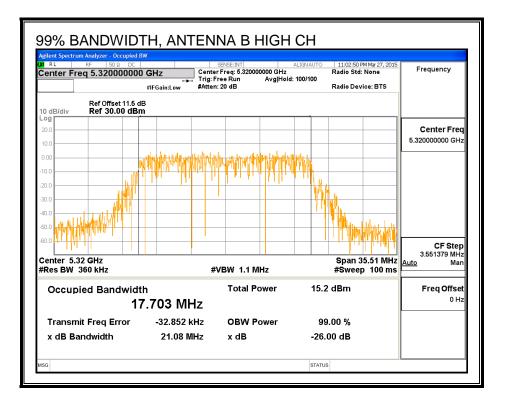
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99% BANDWIDTH, ANTENNA B

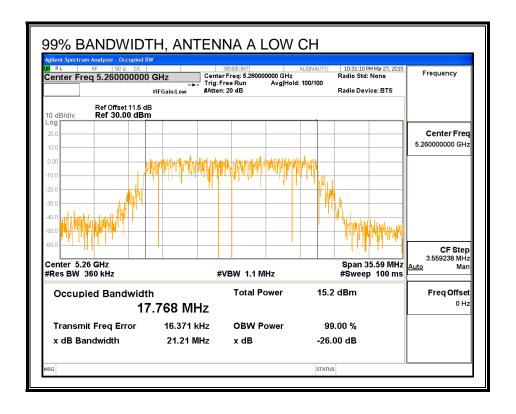




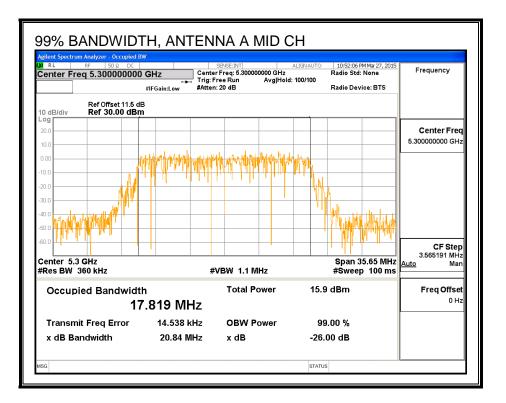
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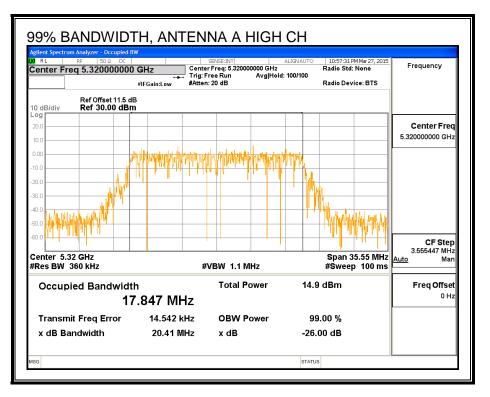


99% BANDWIDTH, ANTENNA A



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8.11.3. AVERAGE POWER

<u>LIMITS</u>

None; for reporting purposes only.

<u>RESULTS</u>

Average Power Results

Channel	Frequency	Antenna B	Antenna	Total
			Α	
		Power	Power	Power
	(MHz)	(dBm)	(dBm)	(dBm)
Low	5260	16.96	15.99	19.51
Mid	5300	16.94	15.92	19.47
High	5320	15.49	15.40	18.46

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8.11.4. OUTPUT POWER AND PSD

<u>LIMITS</u>

FCC §15.407 (a) (2)

For the band 5.25–5.35 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:

Antenna B	Antenna A	Uncorrelated Chains
Antenna	Antenna	Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
3.30	3.10	3.20

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

Antenna B	Antenna A	Correlated Chains
Antenna	Antenna	Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
3.30	3.10	6.21

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RESULTS

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)
Low	5260	21.78	3.20	3.20	24.00	11.00
Mid	5300	21.72	3.20	3.20	24.00	11.00
High	5320	21.81	3.20	3.20	24.00	11.00

Duty Cycle CF (dB) 0.00

Included in Calculations of Corr'd Power & PSD

Output Power Results

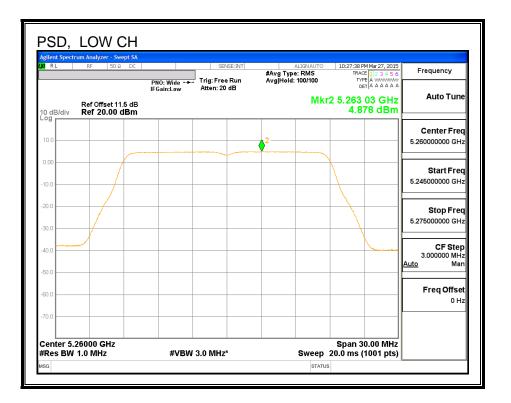
Channel	Frequency	Antenna B	Antenna A	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5260	16.96	15.99	19.51	24.00	-4.49
Mid	5300	16.94	15.92	19.47	24.00	-4.53
High	5320	15.49	15.40	18.46	24.00	-5.54

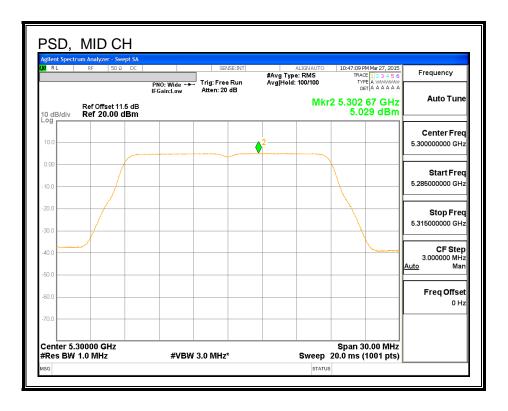
PSD Results

Channel	Frequency	Antenna B	Antenna A	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5260	4.88	3.98	7.46	11.00	-3.54
Mid	5300	5.03	4.01	7.56	11.00	-3.44
High	5320	3.60	3.43	6.53	11.00	-4.47

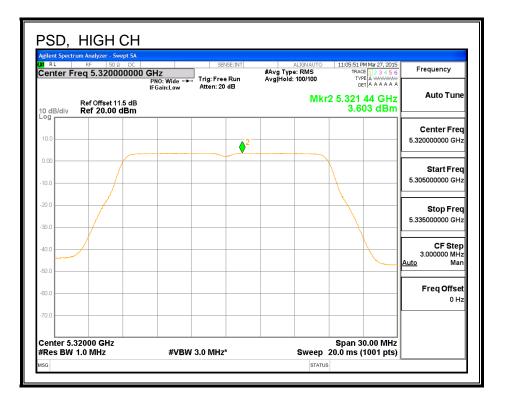
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PSD, ANTENNA B

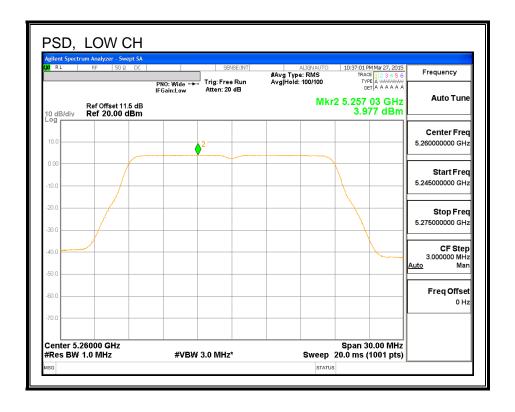




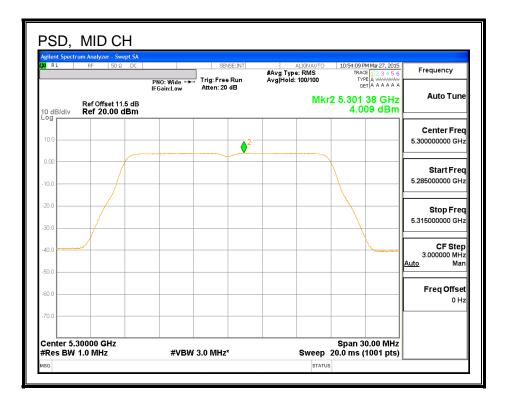
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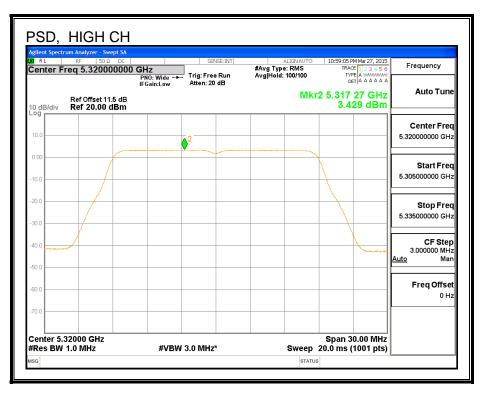


PSD, ANTENNA A



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8.12. 802.11n HT40 SISO MODE IN THE 5.3 GHz BAND

8.12.1. 26 dB BANDWIDTH

LIMITS

None; for reporting purposes only.

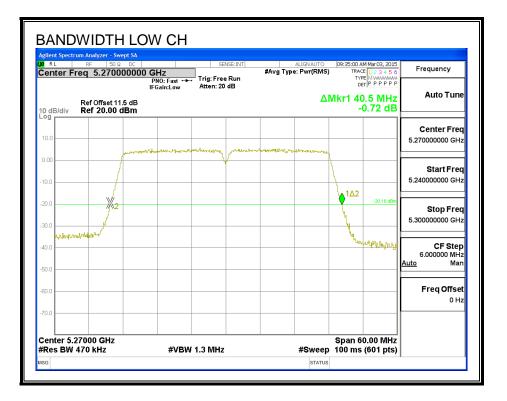
RESULTS

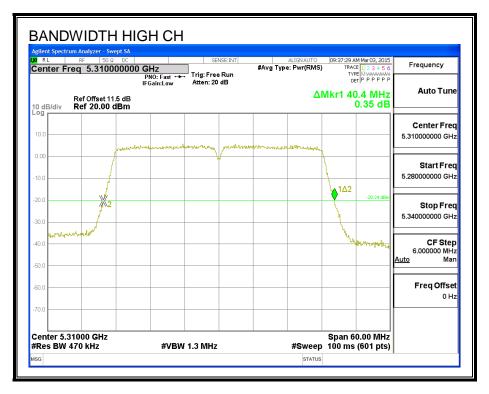
Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Low	5270	40.50
High	5310	40.40

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26 dB BANDWIDTH





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8.12.2. 99% BANDWIDTH

<u>LIMITS</u>

None; for reporting purposes only.

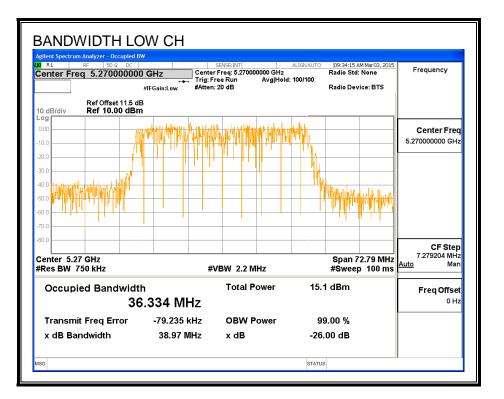
<u>RESULTS</u>

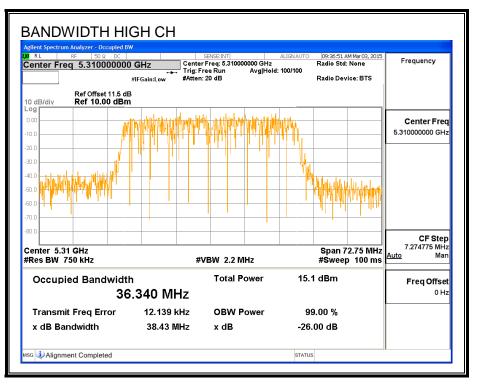
Channel	Frequency	99% Bandwidth	
	(MHz)	(MHz)	
Low	5270	36.334	
High	5310	36.340	

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99% BANDWIDTH





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8.12.3. AVERAGE POWER

<u>LIMITS</u>

None; for reporting purposes only.

<u>RESULTS</u>

Channel	Frequency (MHz)	Power (dBm)
Low	5270	16.85
High	5310	14.80

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8.12.4. OUTPUT POWER AND PSD

<u>LIMITS</u>

FCC §15.407 (a) (2)

For the band 5.25–5.35 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.

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RESULTS

Bandwidth, Antenna Gain, and Limits

Channel	Frequency	Min	Directional	Power	PSD
		26 dB	Gain	Limit	Limit
		BW			
	(MHz)	(MHz)	(dBi)	(dBm)	(dBm)
Low	5270	40.50	3.30	24.00	11.00
High	5310	40.40	3.30	24.00	11.00

Duty Cycle CF (dB) 0.00

Included in Calculations of Corr'd Power & PSD

Output Power Results

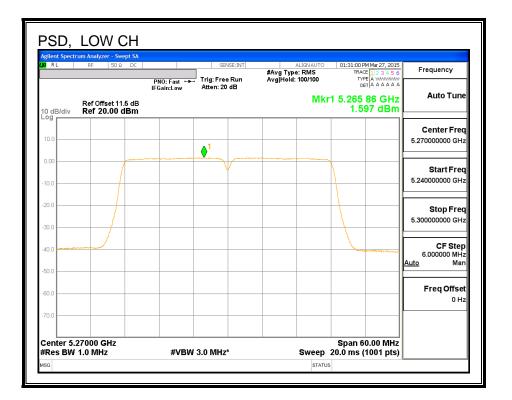
Channel	Frequency	Antenna B	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5270	16.85	16.85	24.00	-7.15
High	5310	14.80	14.80	24.00	-9.20

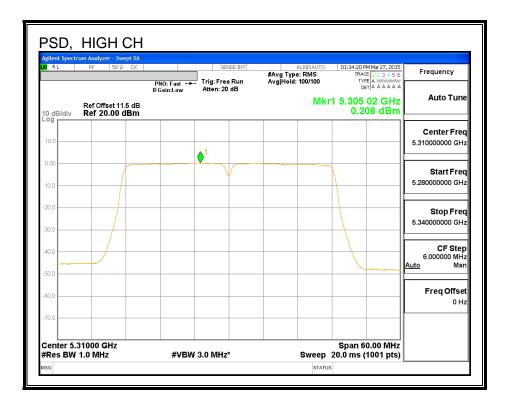
PSD Results

Channel	Frequency	Antenna B	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	(MHz) 5270	(dBm) 1.60	(dBm) 1.60	(dBm) 11.00	(dB) -9.40

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<u>PSD</u>





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8.13. 802.11n HT40 2Tx CDD MODE IN THE 5.3 GHz BAND

8.13.1. 26 dB BANDWIDTH

<u>LIMITS</u>

None; for reporting purposes only.

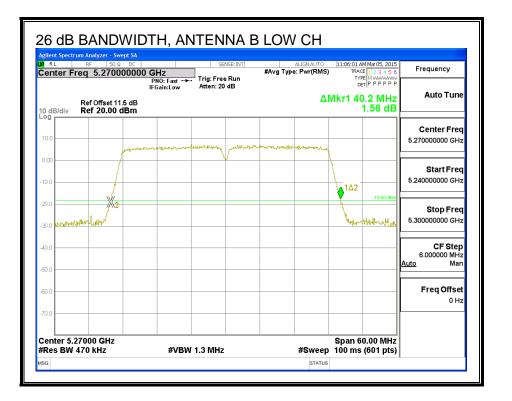
RESULTS

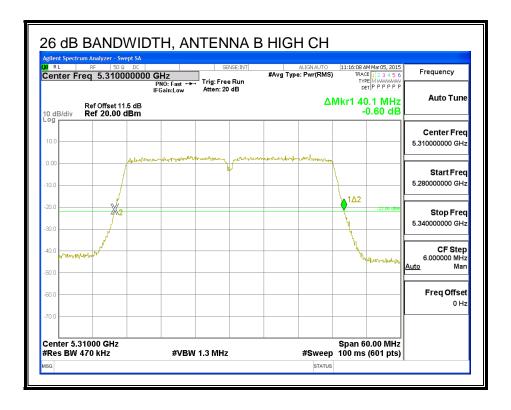
Channel	Frequency	26 dB BW	26 dB BW
		Atenna B	Antenna A
	(MHz)	(MHz)	(MHz)
Low	5270	40.20	39.80
High	5310	40.10	39.80

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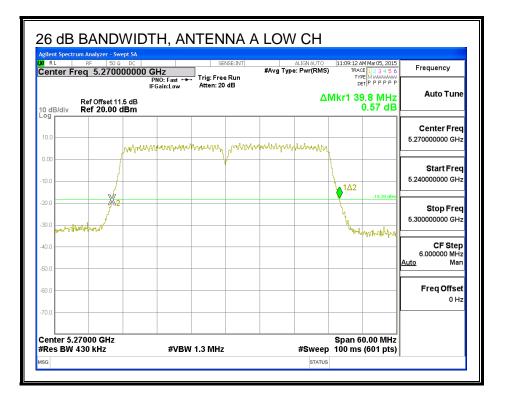
26 dB BANDWIDTH, ANTENNA B

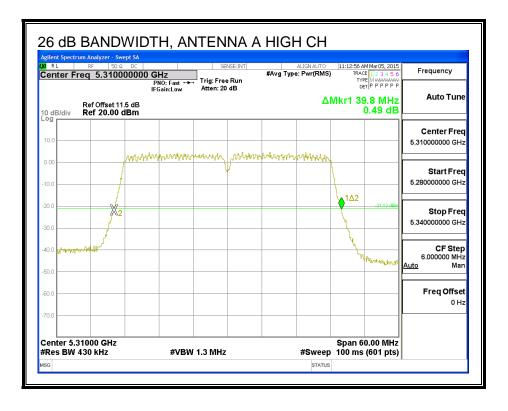




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26 dB BANDWIDTH, ANTENNA A





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8.13.2. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

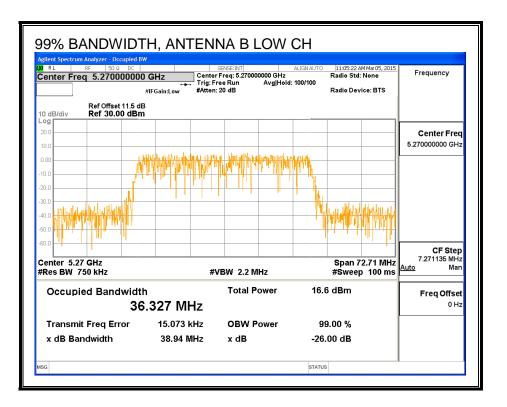
<u>RESULTS</u>

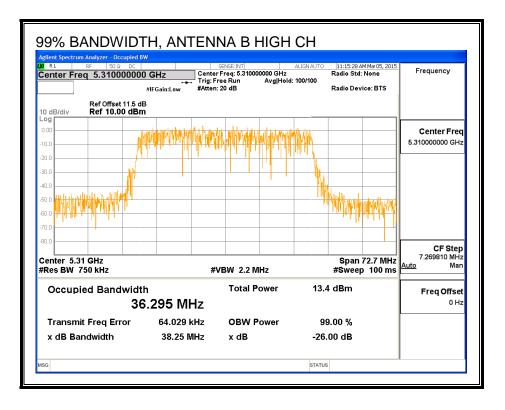
Channel	Frequency	99% BW	99% BW
	Antenna B		Antenna A
	(MHz)	(MHz)	(MHz)
Low	5270	36.3300	36.1900
High	5310	36.3000	36.4000

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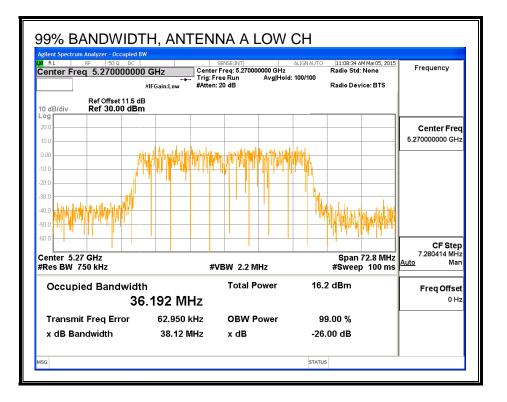
99% BANDWIDTH, ANTENNA B

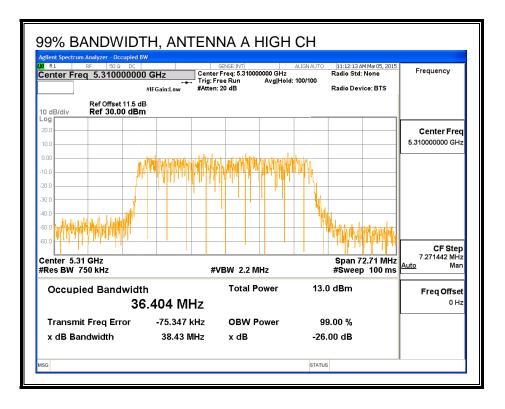




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99% BANDWIDTH, ANTENNA A





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8.13.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

Average Power Results

Channel	Frequency	Antenna B	Antenna A	Total
		Power Power		Power
	(MHz)	(dBm)	(dBm)	(dBm)
Low	5270	15.48	15.49	18.50
High	5310	12.88	12.95	15.92

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8.13.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 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:

Antenna B	Antenna A	Uncorrelated Chains	
Antenna	Antenna	Directional	
Gain	Gain	Gain	
(dBi)	(dBi)	(dBi)	
3.30	3.10	3.20	

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

Antenna B	Antenna A	Correlated Chains
Antenna	Antenna	Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
3.30	3.10	6.21

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RESULTS

Bandwidth, Antenna Gain and Limits

Frequency	Min	Directional	Directional	Power	PSD
	26 dB	Gain	Gain	Limit	Limit
	BW	for Power	for PSD		
(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm)
5270	39.80	3.20	6.21	24.00	10.79
5310	39.80	3.20	6.21	24.00	10.79
	(MHz) 5270	26 dB BW (MHz) 5270	26 dB Gain BW for Power (MHz) (MHz) 5270 39.80	26 dB Gain Gain BW for Power for PSD (MHz) (MHz) (dBi) 5270 39.80 3.20	26 dB Gain Gain Limit BW for Power for PSD for PSD (MHz) (MHz) (dBi) (dBm) 5270 39.80 3.20 6.21 24.00

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

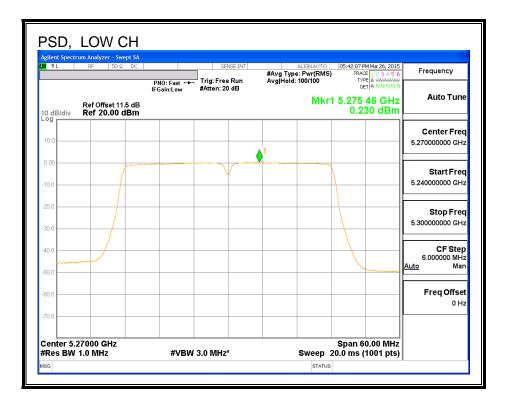
Output Power Results

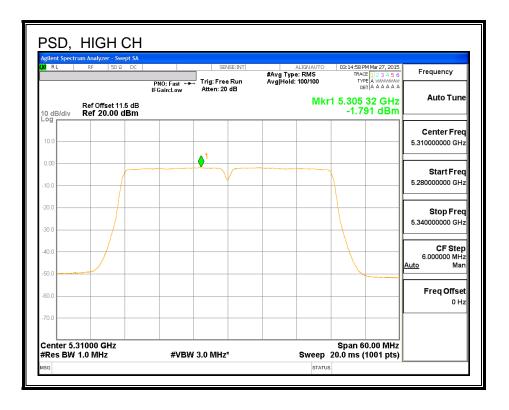
Channel	Frequency	Antenna B	Antenna A	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5270	15.48	15.49	18.50	24.00	-5.50
High	5310	12.88	12.95	15.93	24.00	-8.07

PSD Results

Channel	Frequency	Antenna B	Antenna A	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5270	0.23	0.31	3.28	10.79	-7.51
High	5310	-1.79	-1.80	1.21	10.79	-9.58

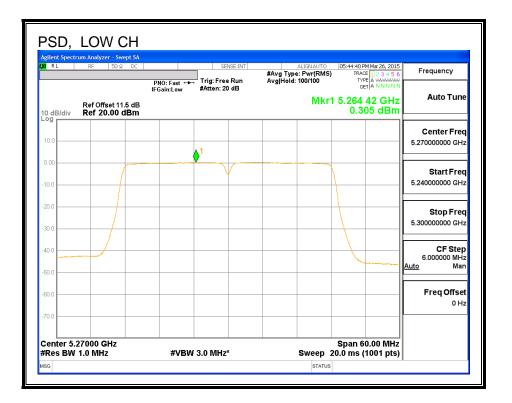
PSD, ANTENNA B

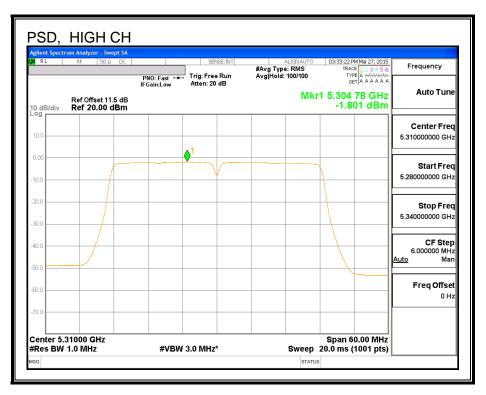




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PSD, ANTENNA A





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8.14. 802.11n HT40 2Tx STBC MODE IN THE 5.3 GHz BAND

8.14.1. 26 dB BANDWIDTH

<u>LIMITS</u>

None; for reporting purposes only.

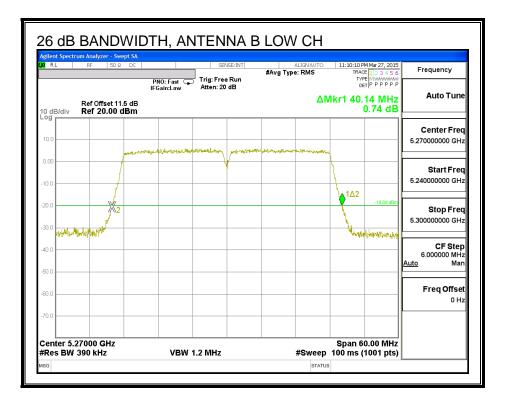
RESULTS

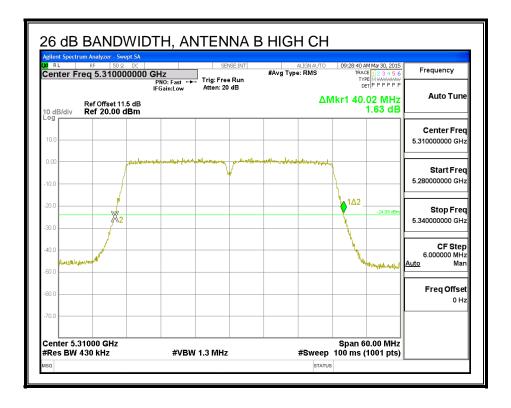
Channel	Frequency	26 dB BW	26 dB BW
		Antenna B	Antenna A
	(MHz)	(MHz)	(MHz)
Low	5270	40.14	39.84
High	5310	40.02	39.78

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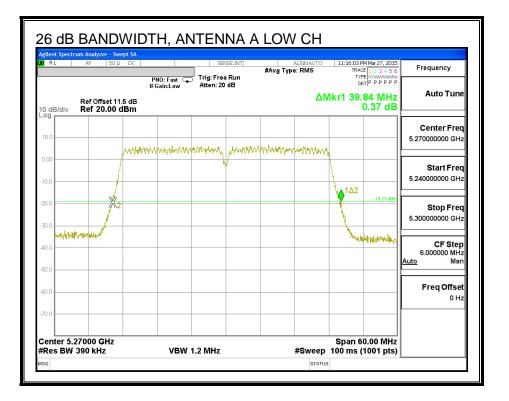
26 dB BANDWIDTH, ANTENNA B

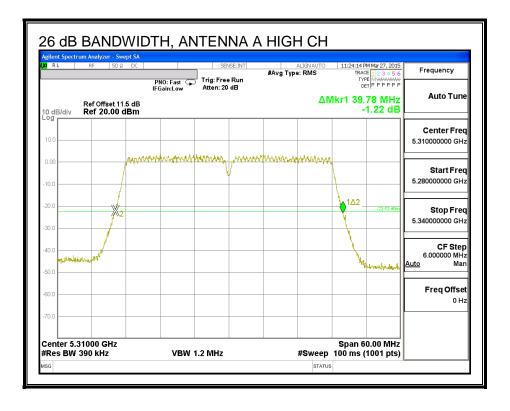




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26 dB BANDWIDTH, ANTENNA A





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8.14.2. 99% BANDWIDTH

<u>LIMITS</u>

None; for reporting purposes only.

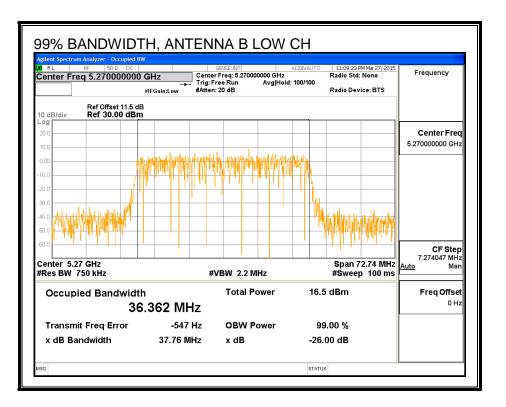
<u>RESULTS</u>

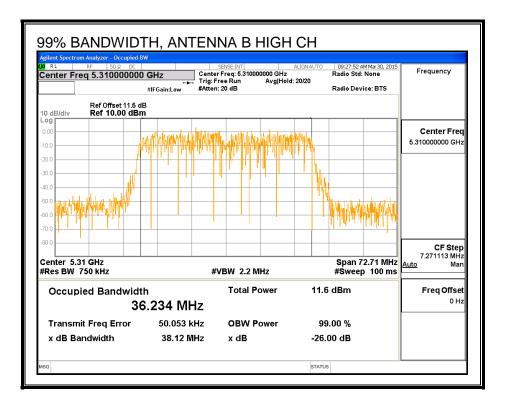
Channel	Frequency	99% BW	99% BW
		Antenna B	Antenna A
	(MHz)	(MHz)	(MHz)
Low	5270	36.362	36.080
High	5310	36.234	36.304

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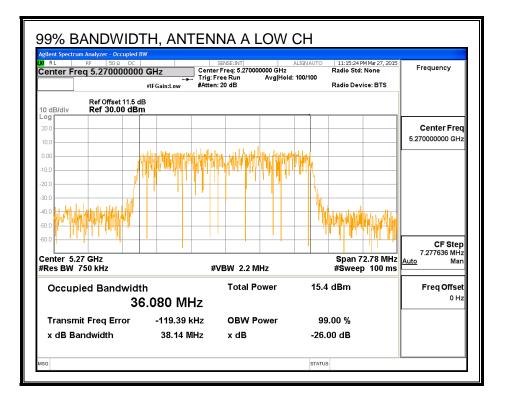
99% BANDWIDTH, ANTENNA B

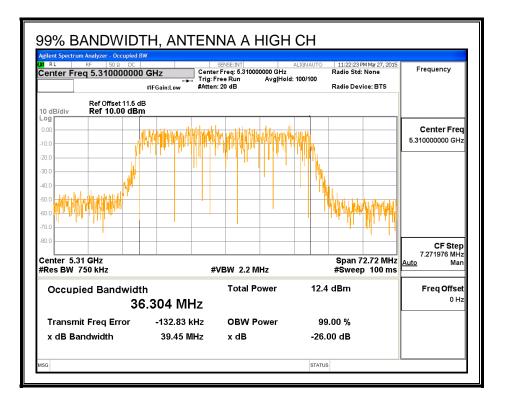




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99% BANDWIDTH, ANTENNA A





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8.14.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

Average Power Results

Channel	Frequency	Antenna B	Antenna A	Total
		Power	Power	Power
	(MHz)	(dBm)	(dBm)	(dBm)
Low	5270	16.99	15.99	19.53
High	5310	12.93	12.95	15.95

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8.14.4. OUTPUT POWER AND PSD

<u>LIMITS</u>

FCC §15.407 (a) (2)

For the band 5.25–5.35 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:

Antenna B	Antenna A	Uncorrelated Chains
Antenna	Antenna	Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
3.30	3.10	3.20

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

Antenna B	Antenna A	Correlated Chains
Antenna	Antenna	Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
3.30	3.10	6.21

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RESULTS

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)
Low	5270	39.84	3.20	3.20	24.00	11.00
High	5310	39.78	3.20	3.20	24.00	11.00

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

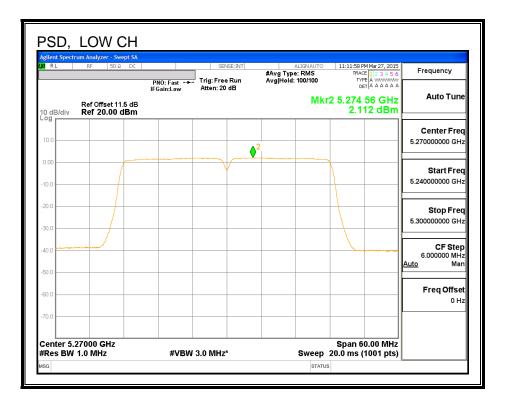
Output Power Results

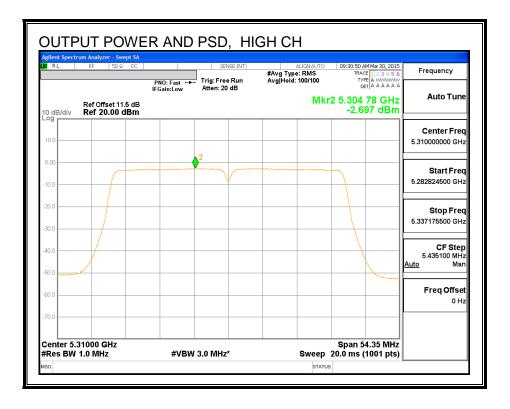
Channel	Frequency	Antenna B	Antenna A	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5270	16.99	15.99	19.53	24.00	-4.47
High	5310	12.93	12.95	15.95	24.00	-8.05

PSD Results

Channel	Frequency	Antenna B	Antenna A	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5270	2.11	1.00	4.60	11.00	-6.40
1						

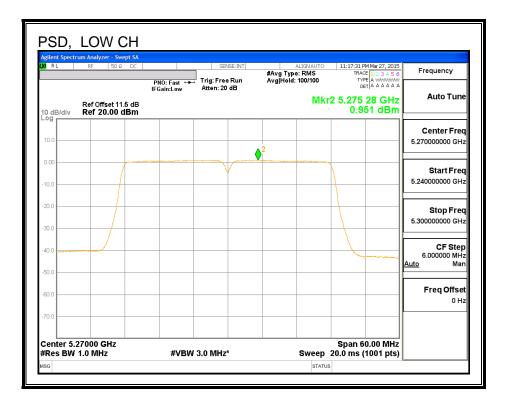
PSD, ANTENNA B

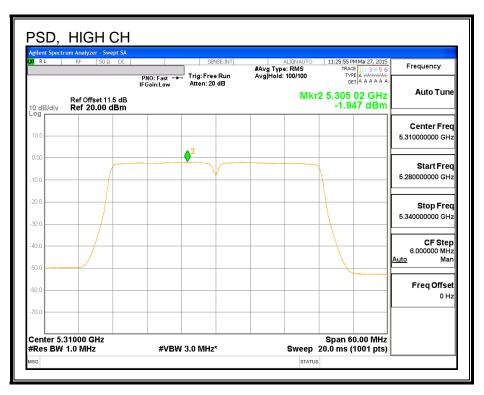




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PSD, ANTENNA A





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8.15. 802.11ac VHT80 SISO MODE IN THE 5.3 GHz BAND

8.15.1. 26 dB BANDWIDTH

LIMITS

None; for reporting purposes only.

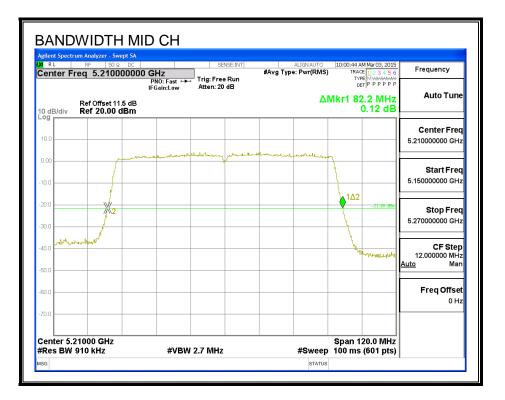
RESULTS

Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Mid	5290	82.20

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26 dB BANDWIDTH



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8.15.2. 99% BANDWIDTH

<u>LIMITS</u>

None; for reporting purposes only.

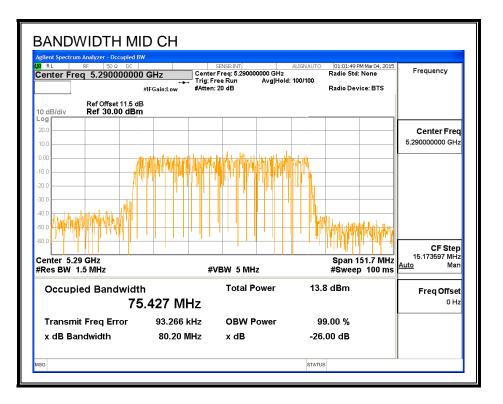
RESULTS

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Mid	5290	75.427

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99% BANDWIDTH



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8.15.3. AVERAGE POWER

<u>LIMITS</u>

None; for reporting purposes only.

<u>RESULTS</u>

Channel	Frequency (MHz)	Power (dBm)
Mid	5290	14.80

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8.15.4. OUTPUT POWER AND PSD

<u>LIMITS</u>

FCC §15.407 (a) (2)

For the band 5.25–5.35 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.

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RESULTS

Bandwidth, Antenna Gain, and Limits

Channel	Frequency	Min	Directional	Power	PSD
		26 dB	Gain	Limit	Limit
		BW			
	(MHz)	(MHz)	(dBi)	(dBm)	(dBm)
Mid	5290	82.20	3.30	24.00	11.00

Duty Cycle CF (dB) 0.21	Include	ed in Calculations of Corr'd Power & PSD
-------------------------	---------	--

Output Power Results

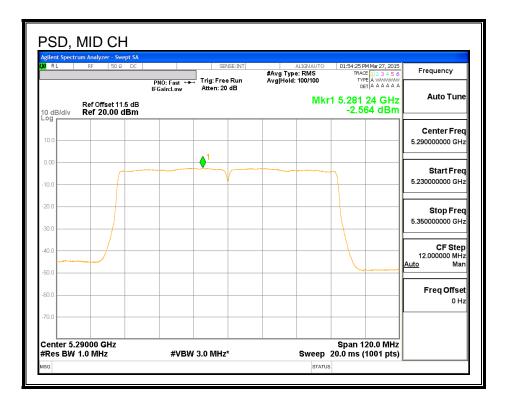
Channel	Frequency	Antenna B	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Mid	5290	14.80	15.01	24.00	-9.00

PPSD Results

Channel	Frequency	Antenna B	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Mid	5290	-2.56	-2.35	11.00	-13.35

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<u>PSD</u>



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8.16. 802.11ac VHT80 2Tx CDD MODE IN THE 5.3 GHz BAND

8.16.1. 26 dB BANDWIDTH

LIMITS

None; for reporting purposes only.

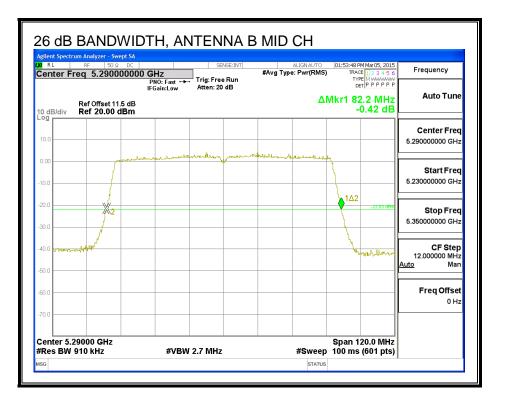
RESULTS

Channel	Frequency	26 dB BW	26 dB BW
		Antenna B	Antenna A
	(MHz)	(MHz)	(MHz)
Mid	5290	82.20	81.60

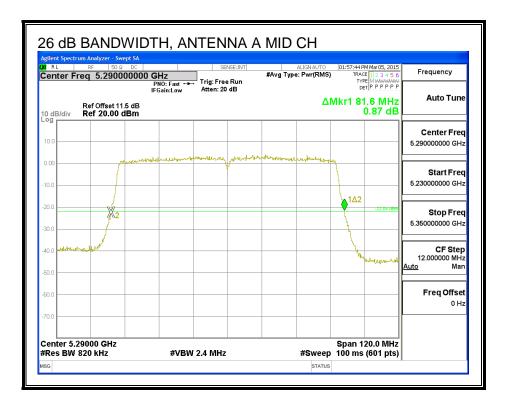
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26 dB BANDWIDTH, ANTENNA B



26 dB BANDWIDTH, ANTENNA A



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8.16.2. 99% BANDWIDTH

<u>LIMITS</u>

None; for reporting purposes only.

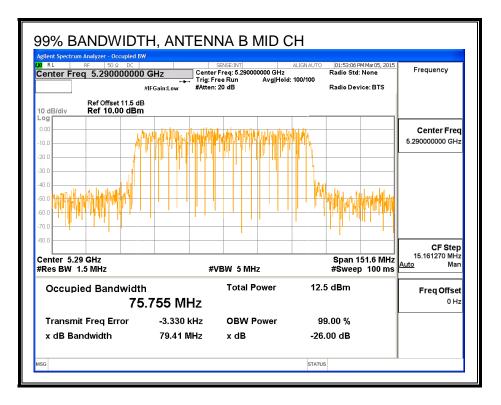
RESULTS

Channel	Frequency	99% BW	99% BW
		Antenna B	Antenna A
	(MHz)	(MHz)	(MHz)
Mid	5290	75.755	75.735

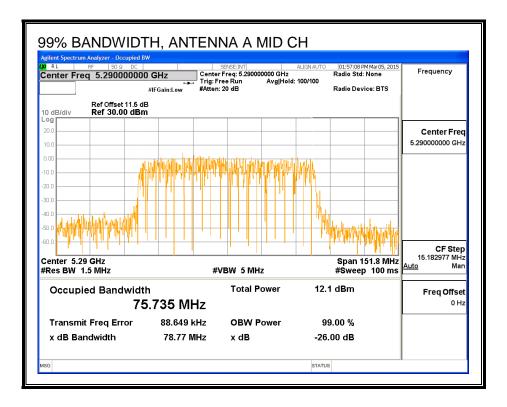
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99% BANDWIDTH, ANTENNA B



99% BANDWIDTH, ANTENNA A



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8.16.3. AVERAGE POWER

<u>LIMITS</u>

None; for reporting purposes only.

<u>RESULTS</u>

Average Power Results

Channel	Frequency	Antenna B	Antenna A	Total
		Power	Power	Power
	(MHz)	(dBm)	(dBm)	(dBm)
Mid	5290	12.33	12.47	15.41

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8.16.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 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:

Antenna B	Antenna A	Uncorrelated Chains
Antenna	Antenna	Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
3.30	3.10	3.20

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

Antenna B	Antenna A	Correlated Chains
Antenna	Antenna	Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
3.30	3.10	6.21

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RESULTS

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)
Mid	5290	81.60	3.20	6.21	24.00	10.79

Duty Cycle CF (dB) 0.21	Included in Calculations of Corr'd Power & PSD
-------------------------	--

Output Power Results

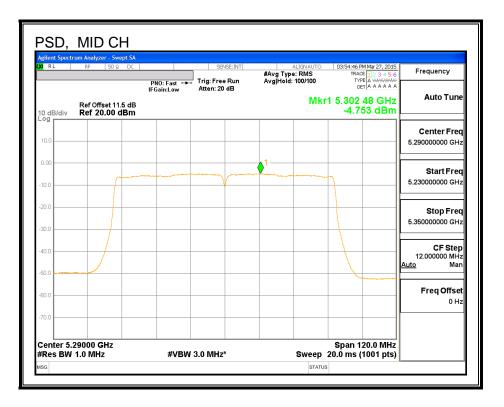
Channel	Frequency	Antenna B	Antenna A	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Mid	5290	12.33	12.47	15.62	24.00	-8.38

PSD Results

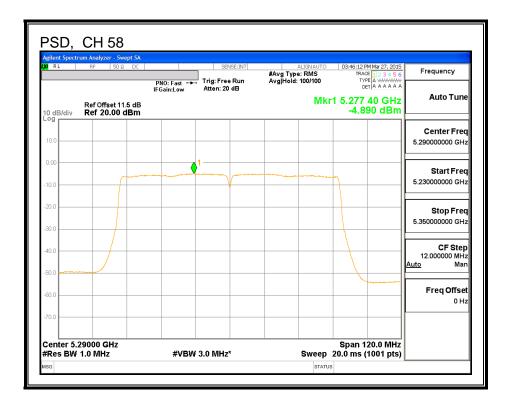
Channel	Frequency	Antenna B	Antenna A	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Mid	5290	-4.75	-4.89	-1.60	10.79	-12.39

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PSD, ANTENNA B



PSD, ANTENNA A



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8.17. 802.11n HT20 SISO MODE IN THE 5.6 GHz BAND

8.17.1. 26 dB BANDWIDTH

<u>LIMITS</u>

None; for reporting purposes only.

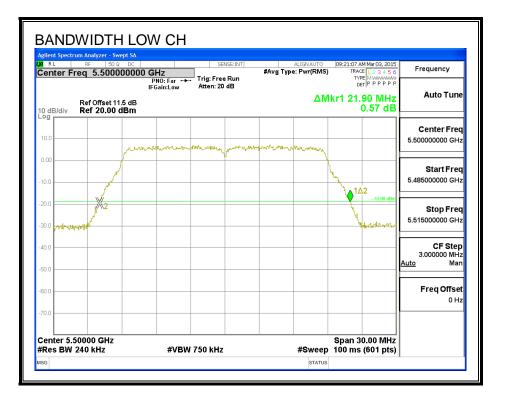
RESULTS

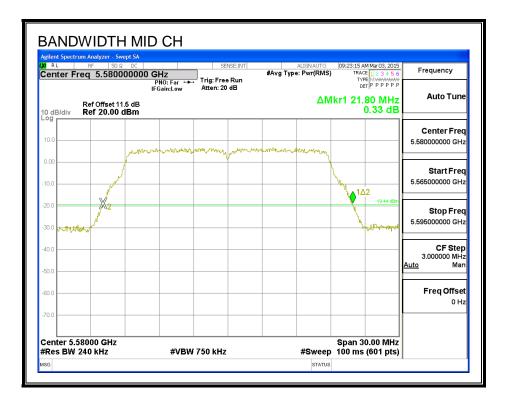
Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Low	5500	21.90
Mid	5580	21.80
High	5700	21.85
144	5720	21.85

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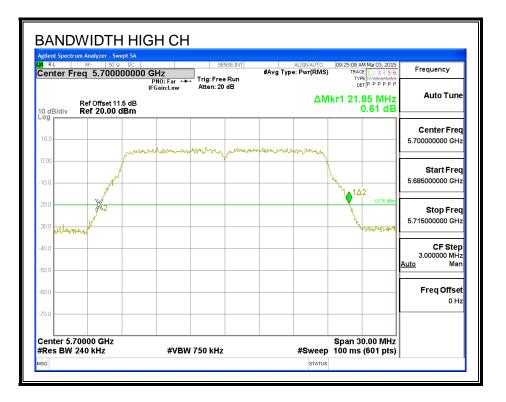
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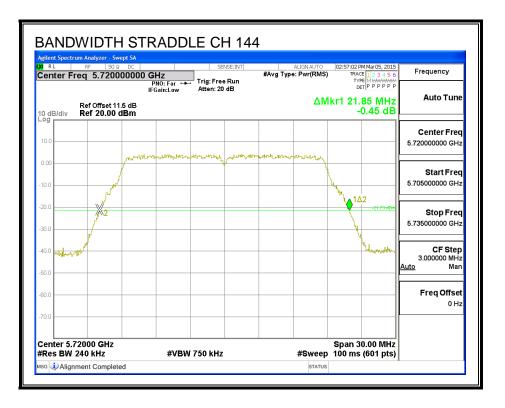
26 dB BANDWIDTH





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8.17.2. 99% BANDWIDTH

<u>LIMITS</u>

None; for reporting purposes only.

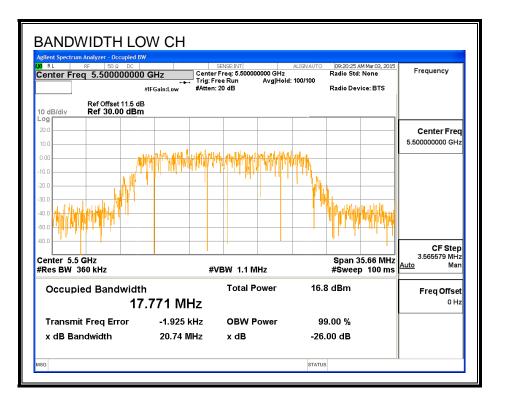
<u>RESULTS</u>

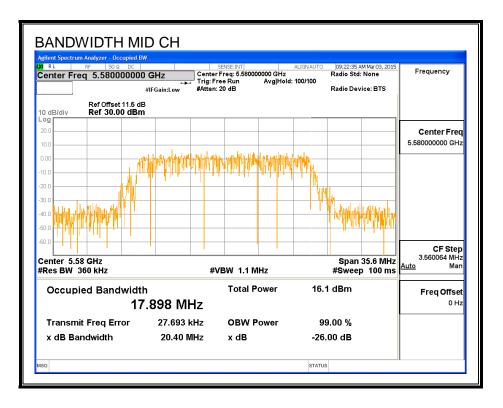
Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Low	5500	17.771
Mid	5580	17.898
High	5700	17.706
144	5720	17.803

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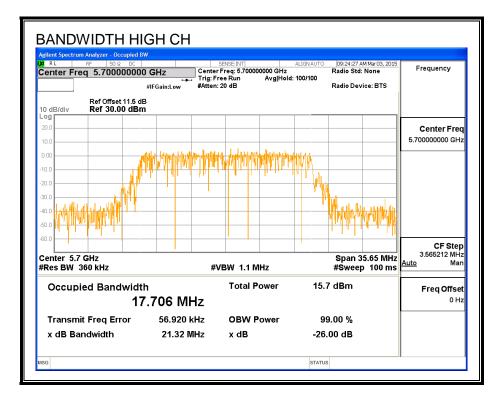
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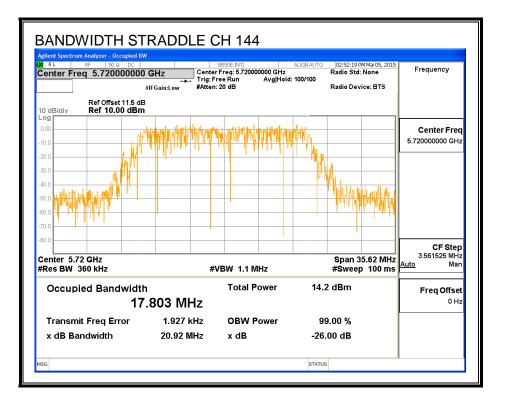
99% BANDWIDTH





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8.17.3. AVERAGE POWER

<u>LIMITS</u>

None; for reporting purposes only.

<u>RESULTS</u>

Channel	Frequency	Power
	(MHz)	(dBm)
Low	5500	15.34
Mid	5580	15.44
High	5700	14.98
144	5720	15.39

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8.17.4. OUTPUT POWER AND PSD

<u>LIMITS</u>

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.

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RESULTS

Bandwidth, Antenna Gain, and Limits

Channel	Frequency	Min	Directional	Power	PSD
		26 dB	Gain	Limit	Limit
		BW			
	(MHz)	(MHz)	(dBi)	(dBm)	(dBm)
Low	5500	21.90	3.90	24.00	11.00
Mid	5580	21.80	3.90	24.00	11.00
High	5700	21.85	3.90	24.00	11.00

0.00

Duty Cycle CF (dB)

Included in Calculations of Corr'd Power & PSD

Output Power Results

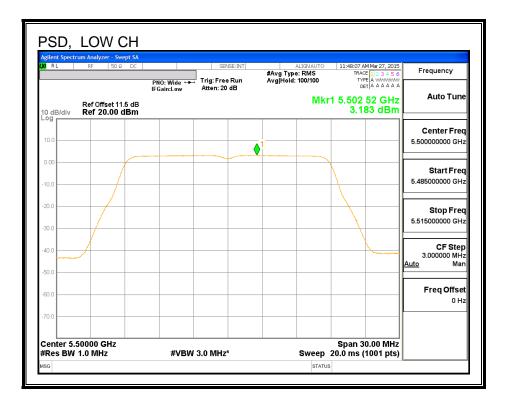
Channel	Frequency	Antenna B	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5500	15.34	15.34	24.00	-8.66
Mid	5580	15.44	15.44	24.00	-8.56
High	5700	14.98	14.98	24.00	-9.02

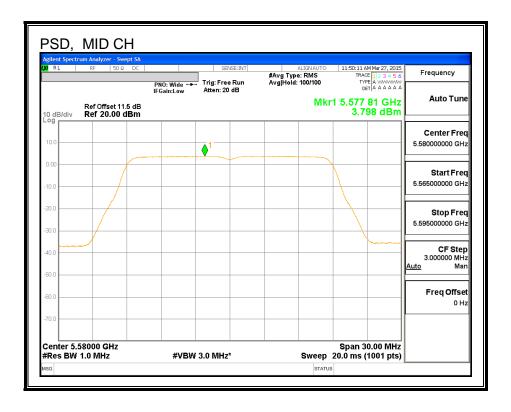
PSD Results

Channel	Frequency	Antenna B	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5500	3.18	3.18	11.00	-7.82
Mid	5580	3.80	3.80	11.00	-7.20
High	5700	3.66	3.66	11.00	-7.34

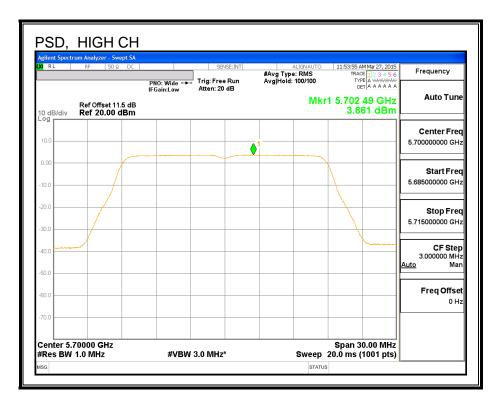
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<u>PSD</u>





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STRADDLE CHANNEL 144 RESULTS

UNII-2C BAND

Bandwidth, Antenna Gain, and Limits

ſ	Channel	Frequency	Min	Directional	Directional	Power	PSD
I			26 dB	Gain	Gain	Limit	Limit
I			BW	for Power	for PSD		
I		(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm)
	144	5720	15.93	3.90	3.90	23.02	11.00

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

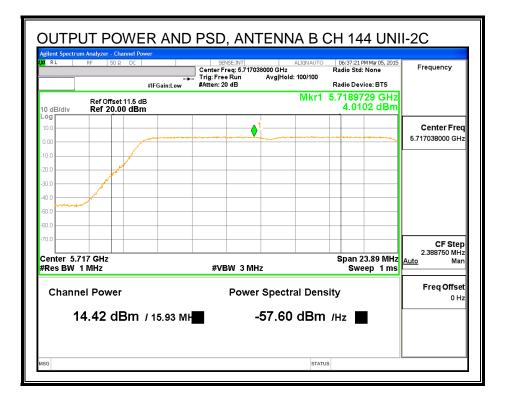
Output Power Results

Channel	Frequency	Antenna B	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
144	5720	14.42	14.42	23.02	-8.60

PSD Results

Channel	Frequency	Antenna B	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
144	5720	4.01	4.01	11.00	-6.99

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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	5.93	3.70	30.00	30.00

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

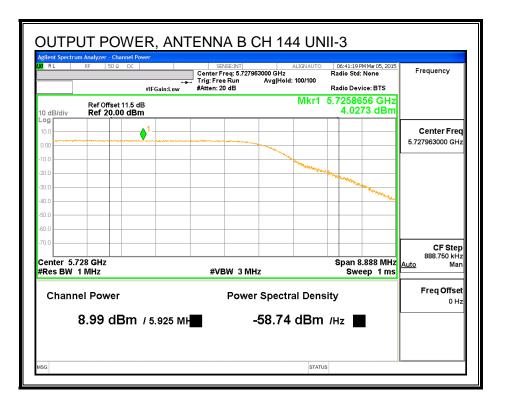
Output Power Results

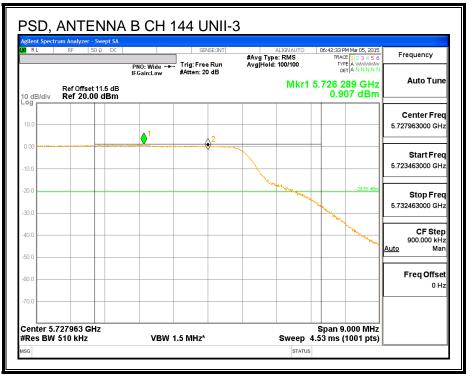
Channel	Frequency	Antenna B	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
144	5720	8.99	8.99	30.00	-21.01

PSD Results

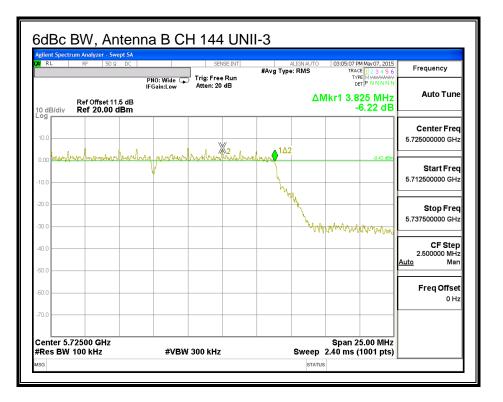
Channel	Frequency	Antenna B	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
144	5720	0.91	0.91	30.00	-29.09

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8.18. 802.11n HT20 2Tx CDD MODE IN THE 5.6 GHz BAND

8.18.1. 26 dB BANDWIDTH

LIMITS

None; for reporting purposes only.

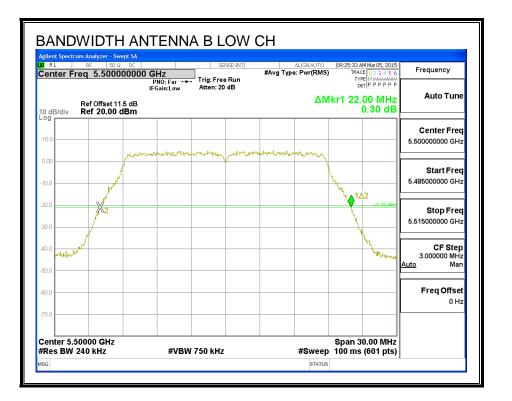
RESULTS

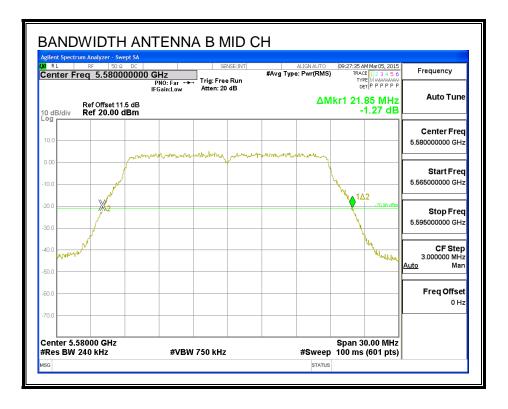
Channel Frequency		26 dB BW	26 dB BW
		Antenna B	Antenna A
	(MHz)	(MHz)	(MHz)
Low	5500	22.00	21.75
Mid	5580	21.85	21.90
High	5700	21.85	21.80
144	5720	21.93	21.96

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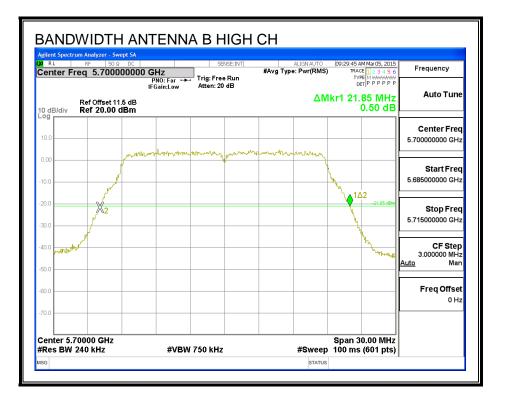
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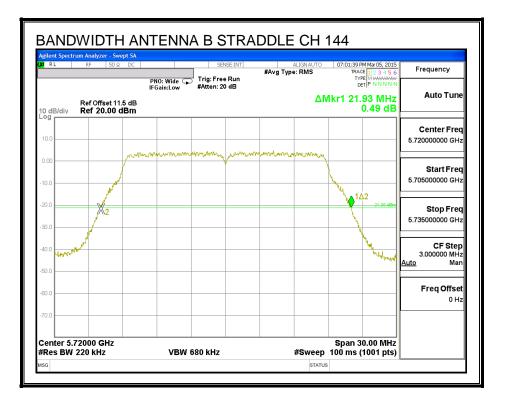
26 dB BANDWIDTH, ANTENNA B





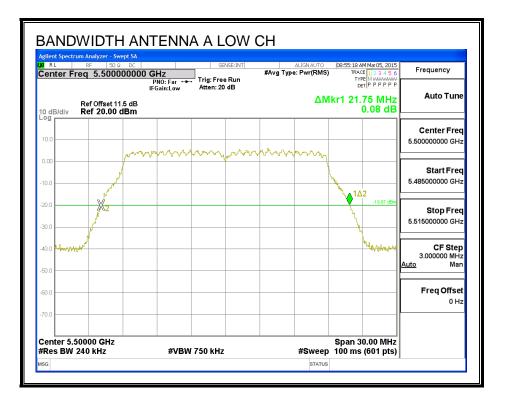
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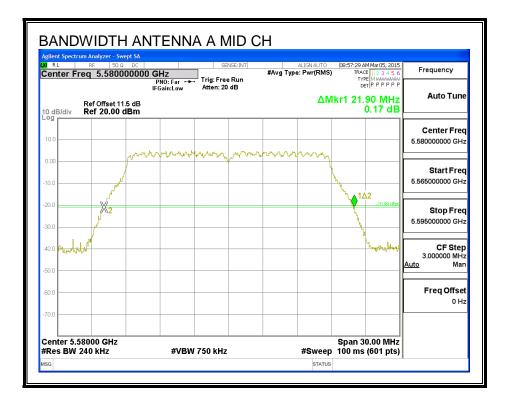




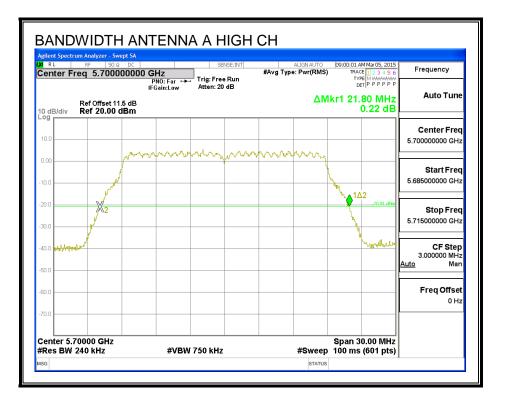
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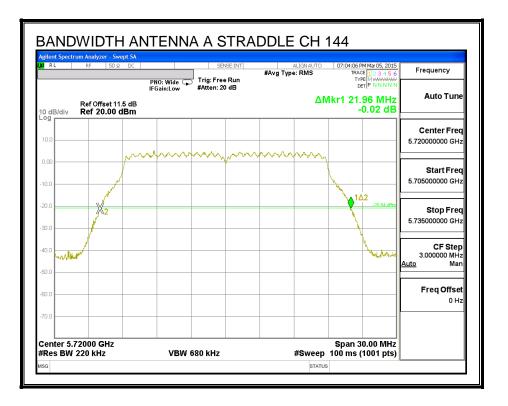
26 dB BANDWIDTH, ANTENNA A





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8.18.2. 99% BANDWIDTH

<u>LIMITS</u>

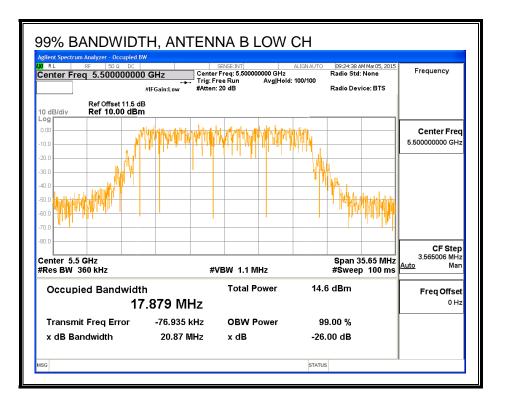
None; for reporting purposes only.

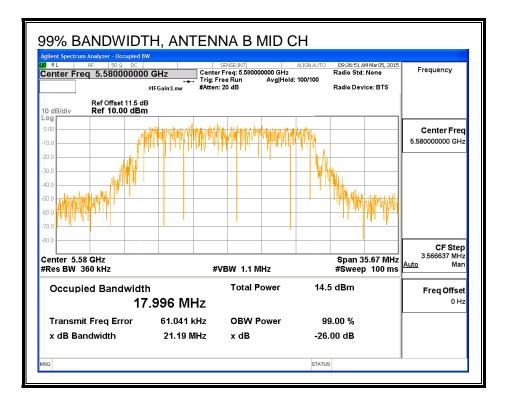
<u>RESULTS</u>

Channel	Frequency	99% BW	99% BW
		Antenna B	Antenna A
	(MHz)	(MHz)	(MHz)
Low	5500	17.879	17.885
Mid	5580	17.996	17.842
High	5700	17.787	17.901
144	5720	17.676	17.710

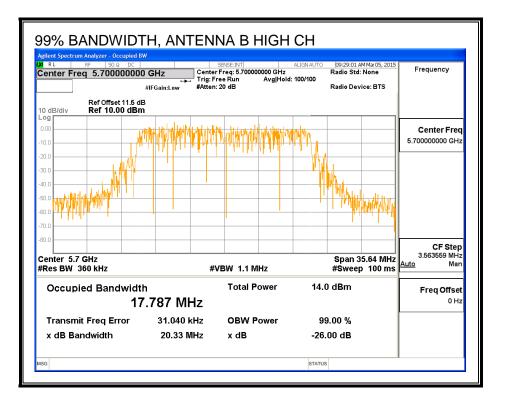
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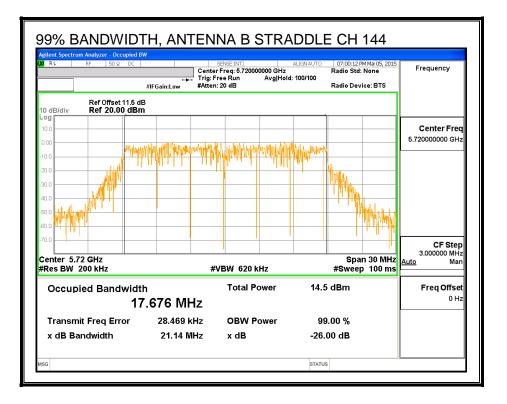
99% BANDWIDTH, ANTENNA B





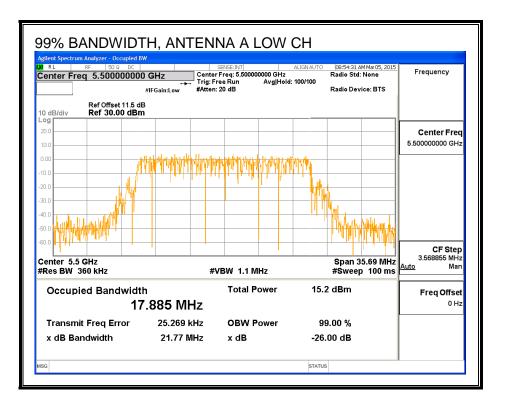
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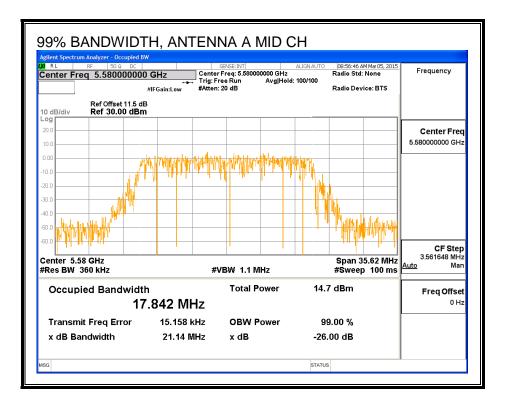




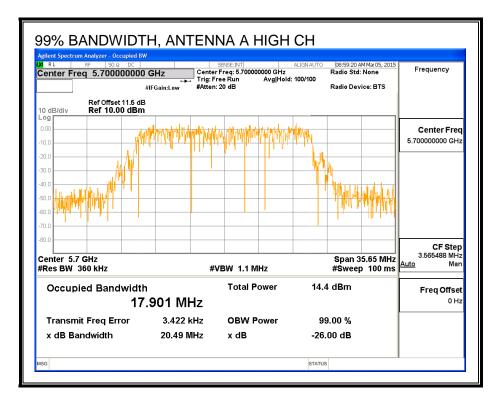
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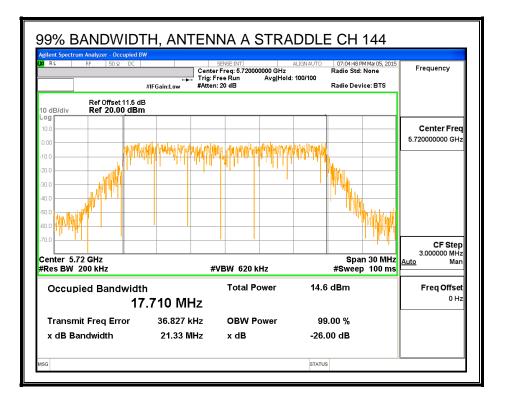
99% BANDWIDTH, ANTENNA A





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8.18.3. AVERAGE POWER

<u>LIMITS</u>

None; for reporting purposes only.

<u>RESULTS</u>

Average Power Results

Channel	Frequency	Antenna B	Antenna A	Total
		Power	Power	Power
	(MHz)	(dBm)	(dBm)	(dBm)
Low	5500	14.28	14.24	17.27
Mid	5580	14.79	14.73	17.77
High	5700	13.75	13.80	16.78
144	5720	14.87	14.92	17.91

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8.18.4. 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:

Antenna B	Antenna A	Uncorrelated Chains		
Antenna	Antenna	Directional		
Gain	Gain	Gain		
(dBi)	(dBi)	(dBi)		
3.90	3.20	3.56		

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

Antenna B	Antenna A	Correlated Chains
Antenna	Antenna	Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
3.90	3.20	6.57

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RESULTS

Bandwidth, Antenna Gain, and Limits

0.00

Channel	Frequency	Min	Directional	Directional	Power	PSD
		26 dB	Gain	Gain	Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm)
Low	5500	21.75	3.56	6.57	24.00	10.43
Mid	5580	21.85	3.56	6.57	24.00	10.43
High	5700	21.80	3.56	6.57	24.00	10.43

Duty Cycle CF (dB)

Included in Calculations of Corr'd Power & PSD

Output Power Results

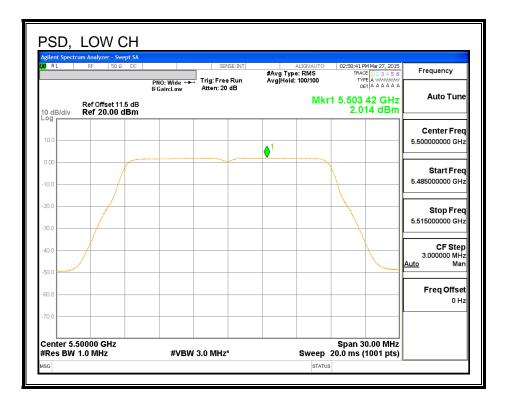
Channel	Frequency	Antenna B	Antenna A	Total	Power	Power
		Meas Power	Meas Power	Corr'd Power	Limit	Margin
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5500	14.28	14.24	17.27	24.00	-6.73
Mid	5580	14.79	14.73	17.77	24.00	-6.23
High	5700	13.75	13.80	16.78	24.00	-7.22

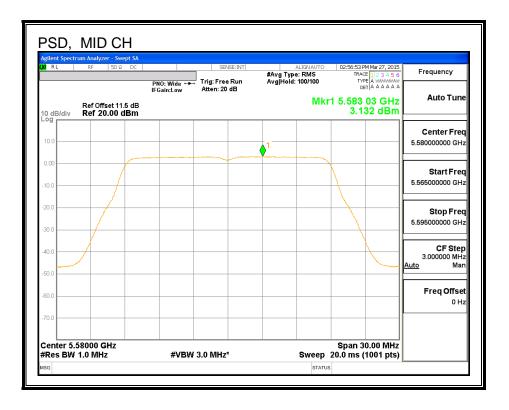
PSD Results

Channel	Frequency	Antenna B	Antenna A	Total	PSD	PSD
		Meas PSD	Meas PSD	Corr'd PSD	Limit	Margin
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5500	2.01	1.67	4.85	10.43	-5.58
Mid	5580	3.13	2.72	5.94	10.43	-4.49
High	5700	2.66	2.27	5.48	10.43	-4.95

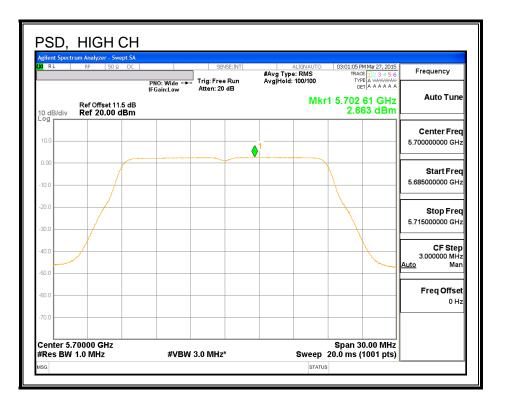
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PSD, ANTENNA B

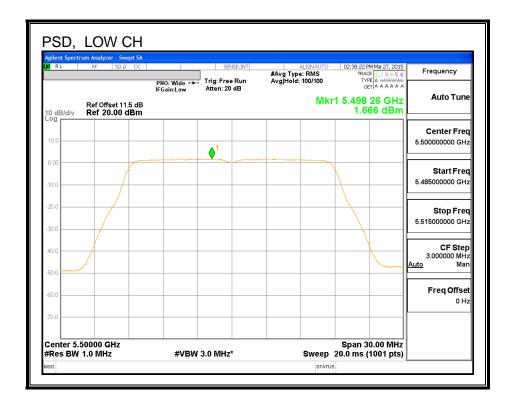




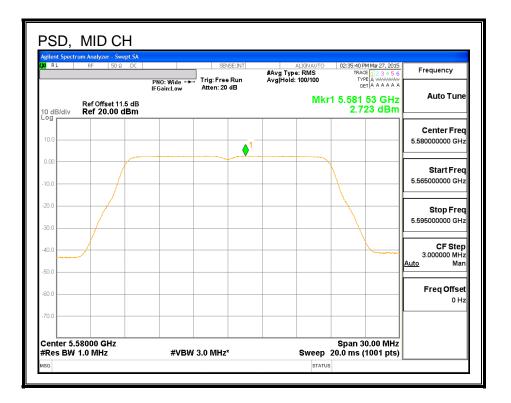
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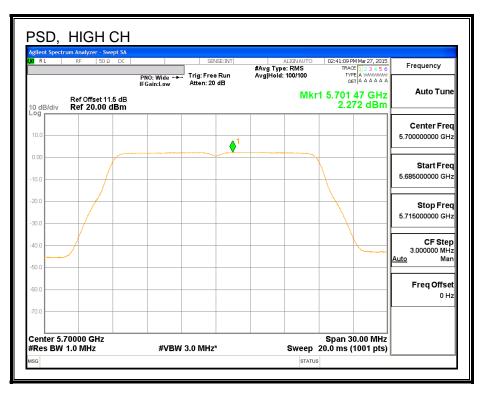


PSD, ANTENNA A



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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	3.56	6.57	23.04	10.43

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

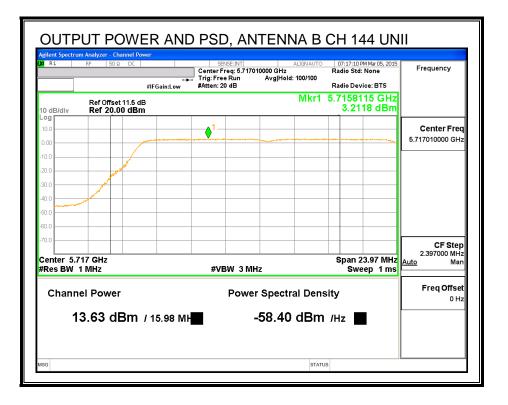
Output Power Results

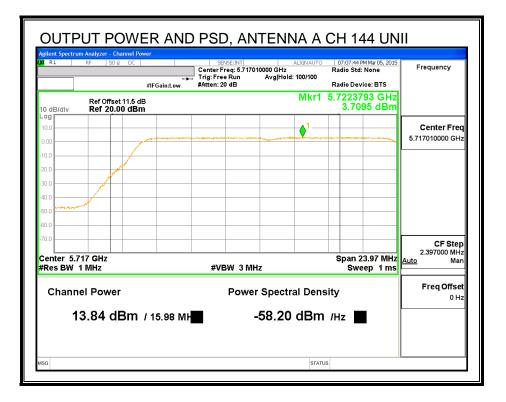
Channel	Frequency	Antenna B	Antenna A	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
144	5720	13.63	13.84	16.75	23.04	-6.29

PSD Results

Channel	Frequency	Antenna B	Antenna A	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
144	5720	3.21	3.71	6.48	10.43	-3.95

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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	3.56	6.57	30.00	29.43

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

Output Power Results

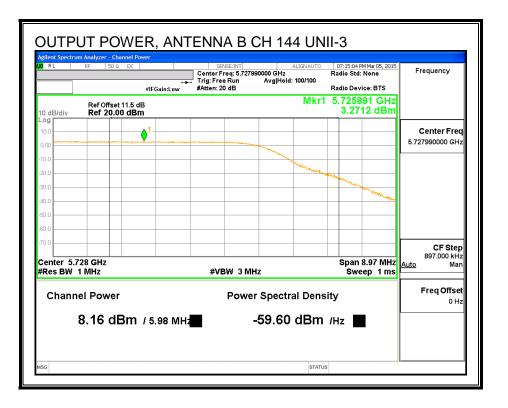
Channel	Frequency	Antenna B	Antenna A	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
144	5720	8.16	8.41	11.30	30.00	-18.70

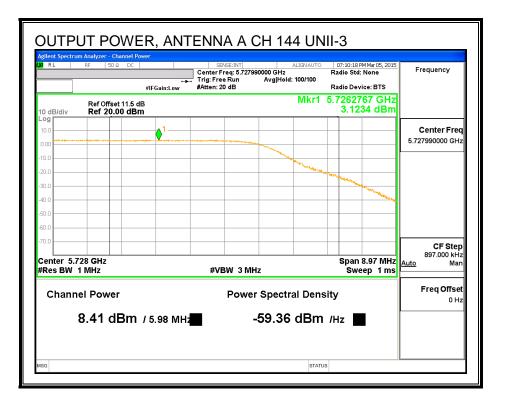
PSD Results

Channel	Frequency	Antenna B	Antenna A	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
144	5720	0.14	0.25	3.20	29.43	-26.23

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