8.17. 802.11a SISO MODE IN THE 5.3 GHz BAND

Note: Covered by 802.11n HT20 SISO CDD MODE

Page 149 of 905

8.18. 802.11n HT20 CHAIN 0 MODE IN THE 5.3 GHz BAND

8.18.1. 26 dB BANDWIDTH

LIMITS

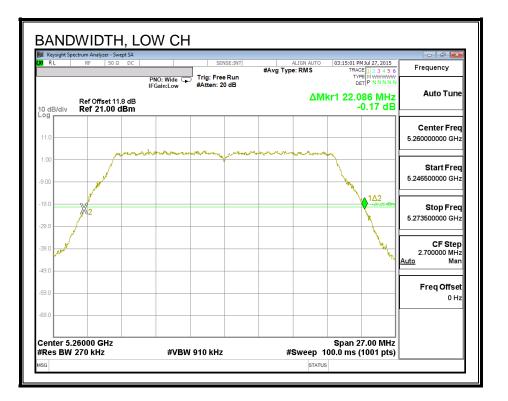
None; for reporting purposes only.

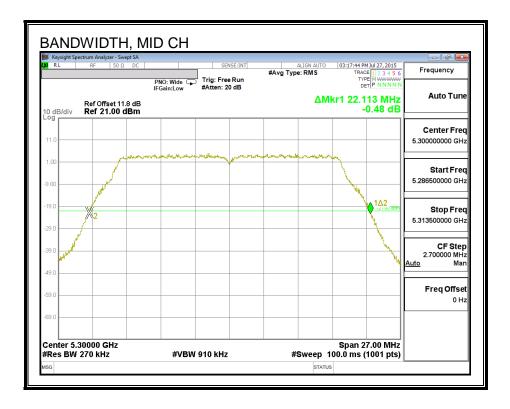
<u>RESULTS</u>

Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Low	5260	22.09
Mid	5300	22.11
High	5320	22.14

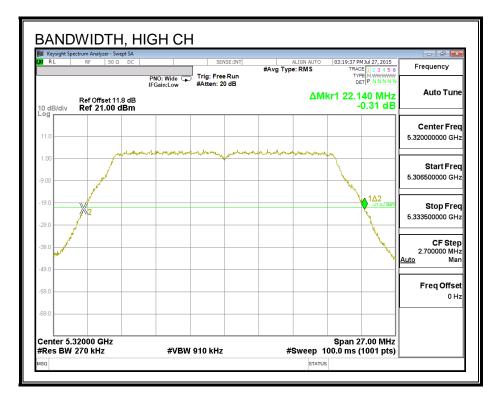
Page 150 of 905

26 dB BANDWIDTH





Page 151 of 905



Page 152 of 905

8.18.2. 99% BANDWIDTH

LIMITS

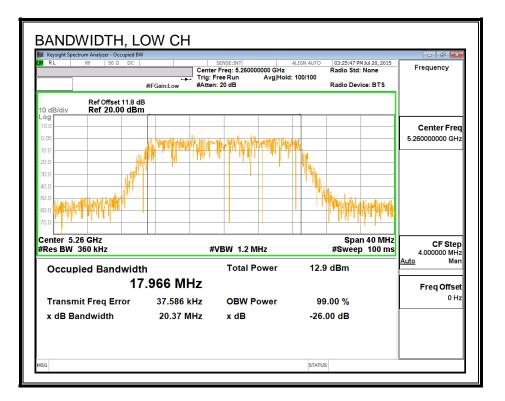
None; for reporting purposes only.

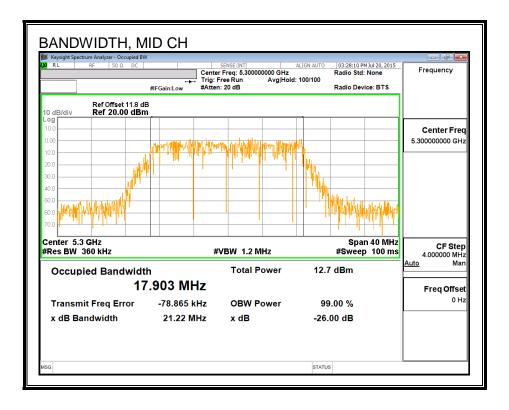
RESULTS

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Low	5260	17.966
Mid	5300	17.903
High	5320	17.984

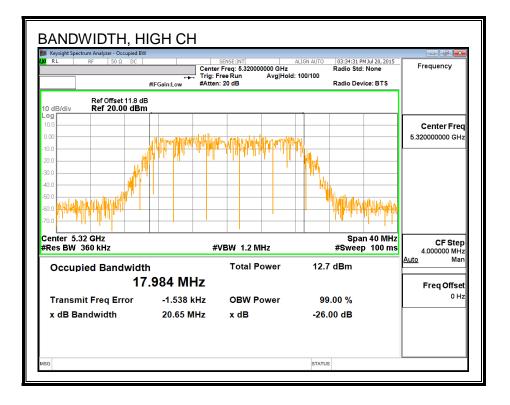
Page 153 of 905

99% BANDWIDTH





Page 154 of 905



Page 155 of 905

8.18.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency	Power
	(MHz)	(dBm)
Low	5260	16.38
Mid	5300	16.38
High	5320	16.31

Page 156 of 905

8.18.4. 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

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

Page 157 of 905

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	5260	22.09	17.966	2.30	23.54	11.00
Mid	5300	22.11	17.903	2.30	23.53	11.00
High	5320	22.14	17.984	2.30	23.55	11.00

Duty Cycle CF (dB) 0.00

Included in Calculations of Corr'd Power & PSD

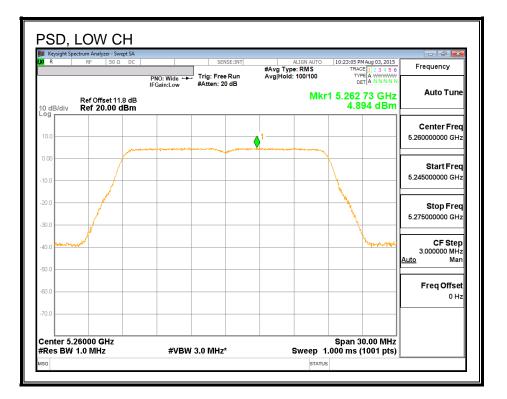
Output Power Results

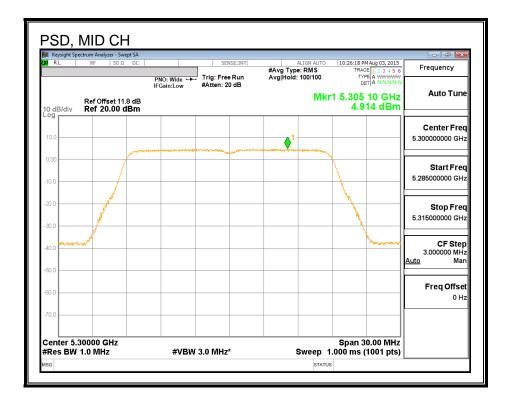
Channel	Frequency		Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5260	16.38	16.38	23.54	-7.16
Mid	5300	16.38	16.38	23.53	-7.15
High	5320	16.31	16.31	23.55	-7.24

PSD Results

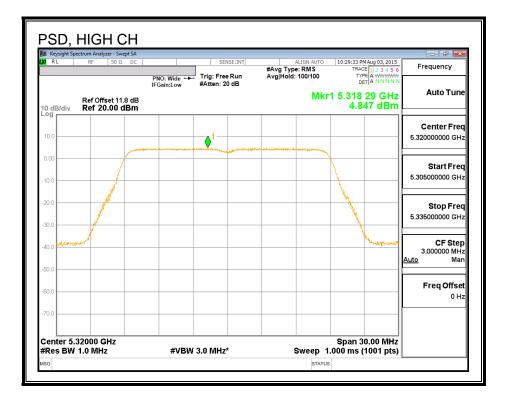
Channel	Frequency		Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5260	4.89	4.89	11.00	-6.11
Mid	5300	4.91	4.91	11.00	-6.09
High	5320	4.85	4.85	11.00	-6.15

<u>PSD</u>





Page 159 of 905



Page 160 of 905

8.19. 802.11n HT20 CHAIN 1 MODE IN THE 5.3 GHz BAND

8.19.1. 26 dB BANDWIDTH

LIMITS

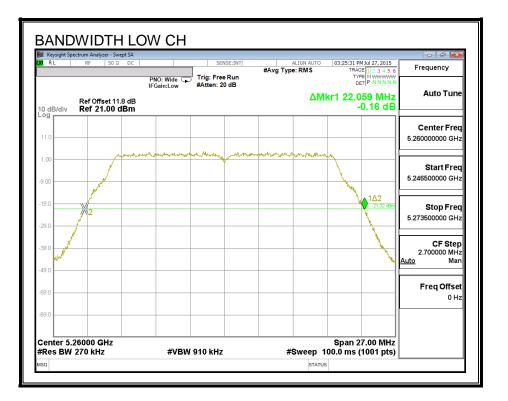
None; for reporting purposes only.

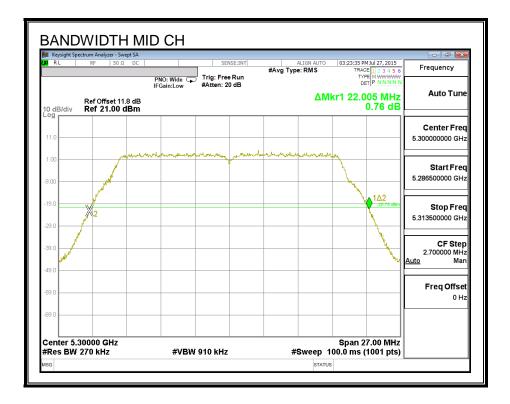
RESULTS

Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Low	5260	22.06
Mid	5300	22.01
High	5320	22.09

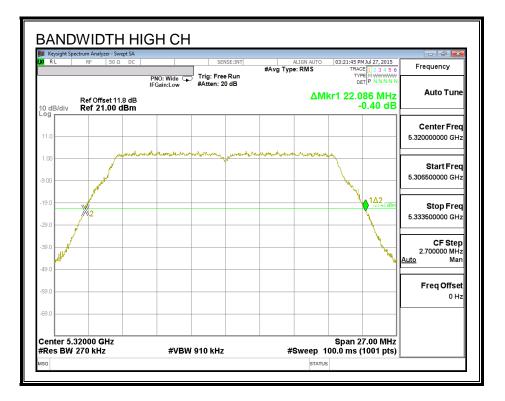
Page 161 of 905

26 dB BANDWIDTH





Page 162 of 905



Page 163 of 905

8.19.2. 99% BANDWIDTH

LIMITS

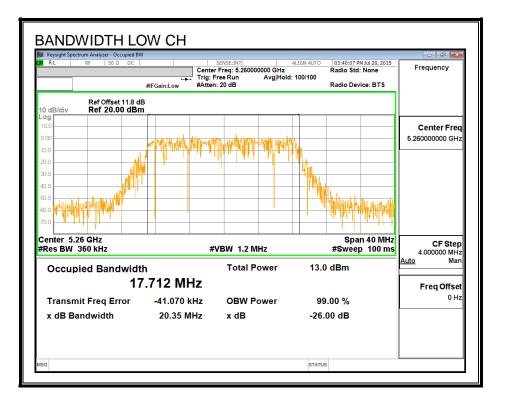
None; for reporting purposes only.

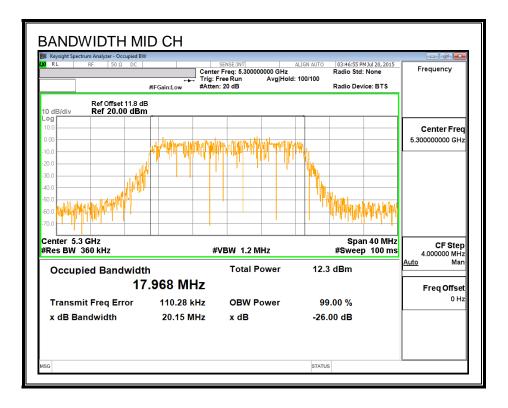
RESULTS

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Low	5260	17.712
Mid	5300	17.968
High	5320	17.708

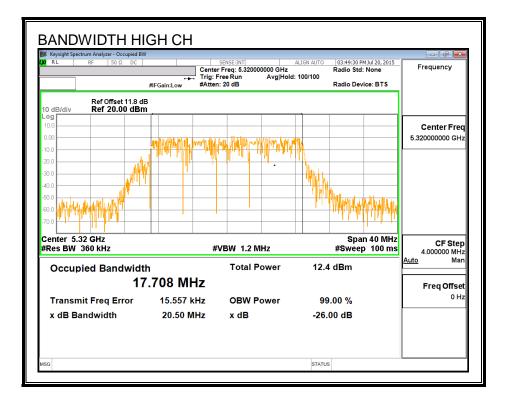
Page 164 of 905

99% BANDWIDTH





Page 165 of 905



Page 166 of 905

8.19.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency	Power
	(MHz)	(dBm)
Low	5260	16.90
Mid	5300	16.81
High	5320	16.47

Page 167 of 905

8.19.4. 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.

Page 168 of 905

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	5260	22.06	17.712	2.90	23.48	11.00
Mid	5300	22.01	17.968	2.90	23.54	11.00
High	5320	22.09	17.708	2.90	23.48	11.00

Duty Cycle CF (dB) 0.00

Included in Calculations of Corr'd Power & PSD

Output Power Results

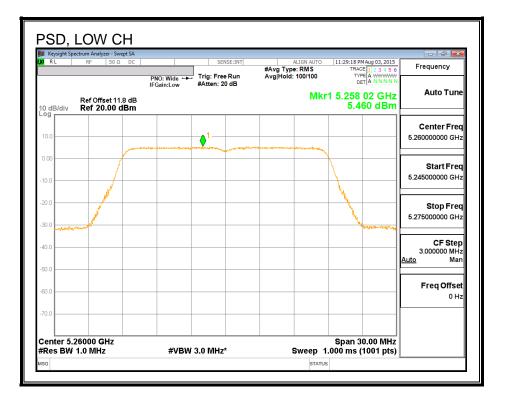
Channel	Frequency		Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5260	16.90	16.90	23.48	-6.58
Mid	5300	16.81	16.81	23.54	-6.73
High	5320	16.47	16.47	23.48	-7.01

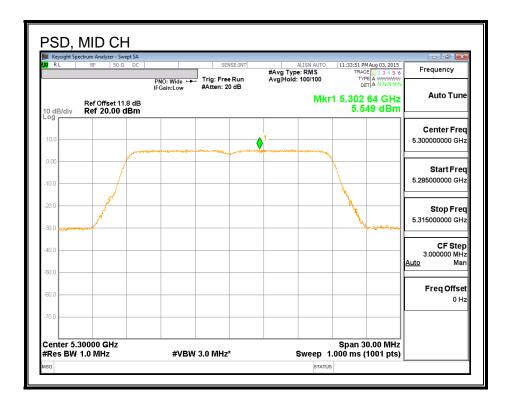
PSD Results

Channel	Frequency		Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5260	5.46	5.46	11.00	-5.54
Mid	5300	5.55	5.55	11.00	-5.45
High	5320	5.15	5.15	11.00	-5.86

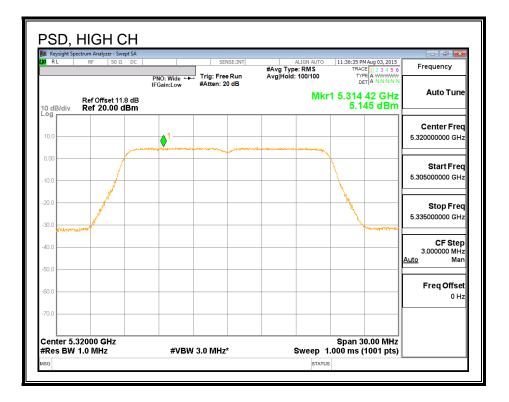
Page 169 of 905

<u>PSD</u>





Page 170 of 905



Page 171 of 905

8.20. 802.11a CDD 2TX MODE IN THE 5.3 GHz BAND

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

Page 172 of 905

8.21. 802.11n HT20 2Tx CDD MODE IN THE 5.3 GHz BAND

8.21.1. 26 dB BANDWIDTH

LIMITS

None; for reporting purposes only.

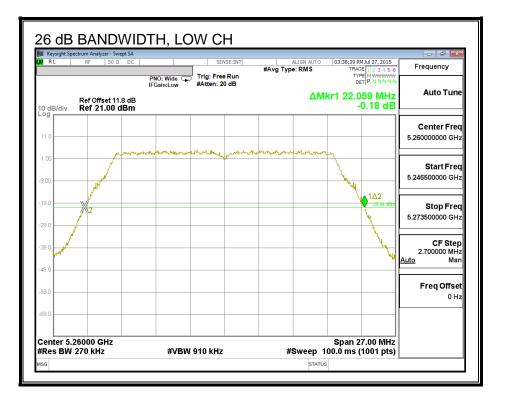
RESULTS

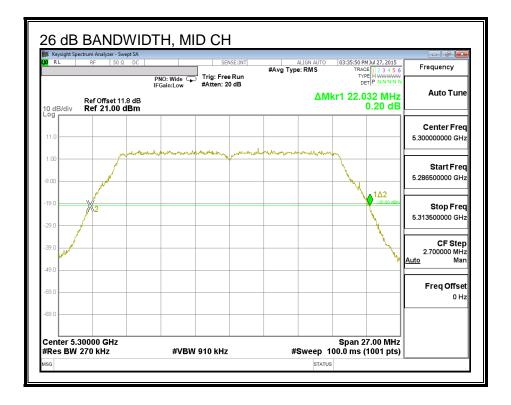
Frequency	26 dB BW	26 dB BW
	Chain 0	Chain 1
(MHz)	(MHz)	(MHz)
5260	22.06	22.01
5300	22.03	22.01
5320	22.06	22.01

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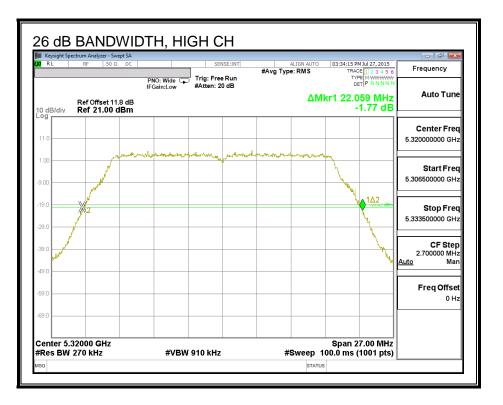
Page 173 of 905

26 DB BANDWIDTH, CHAIN 0

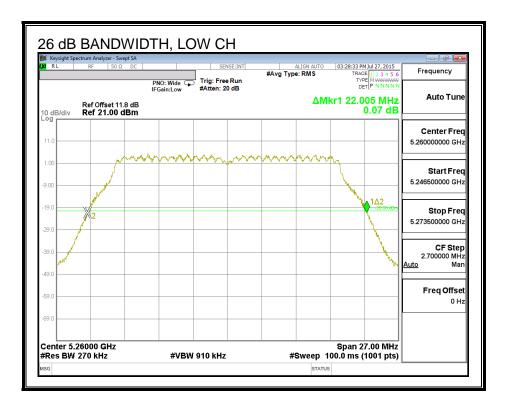




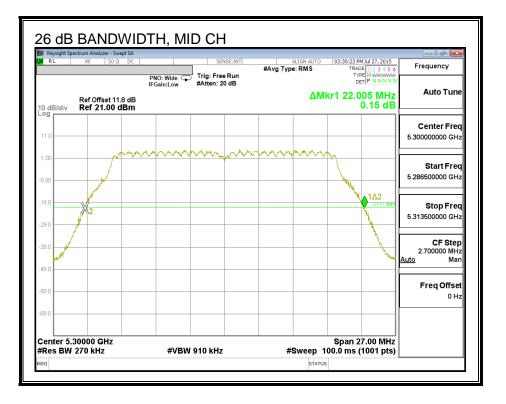
Page 174 of 905

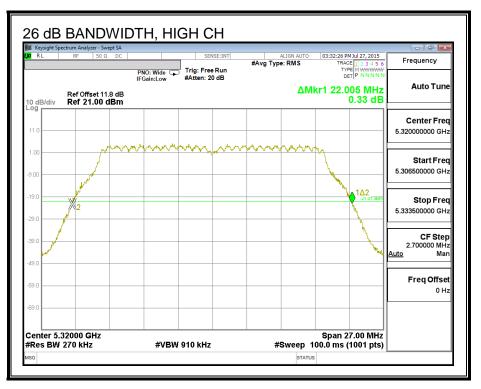


26 DB BANDWIDTH, CHAIN 1



Page 175 of 905





Page 176 of 905

8.21.2. 99% BANDWIDTH

<u>LIMITS</u>

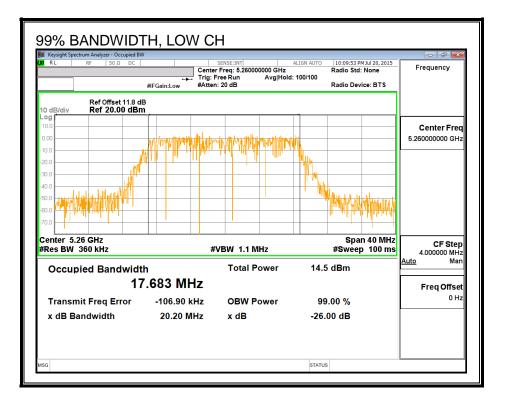
None; for reporting purposes only.

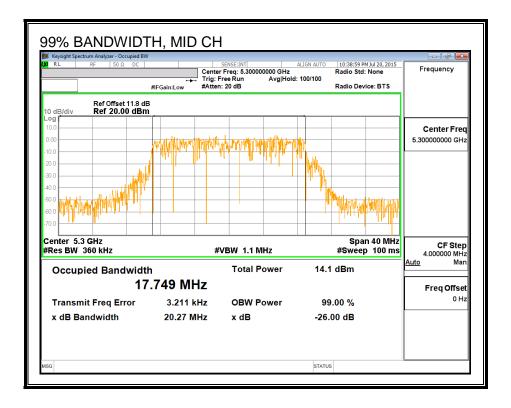
RESULTS

Channel	Frequency	99% BW	99% BW	
		Chain 0	Chain 1	
	(MHz)	(MHz)	(MHz)	
Low	5260	17.683	17.936	
Mid	5300	17.749	17.711	
High	5320	17.700	17.844	

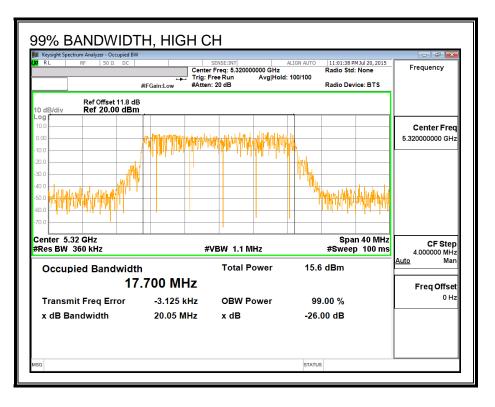
Page 177 of 905

99% BANDWIDTH, CHAIN 0

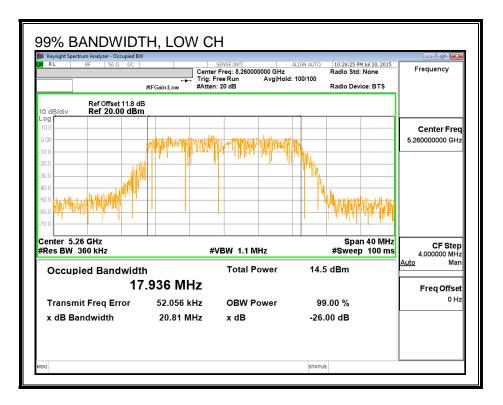




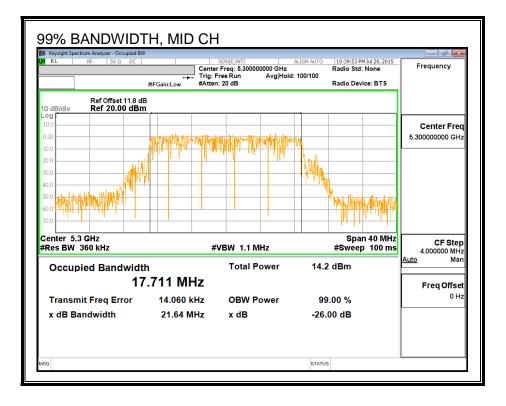
Page 178 of 905

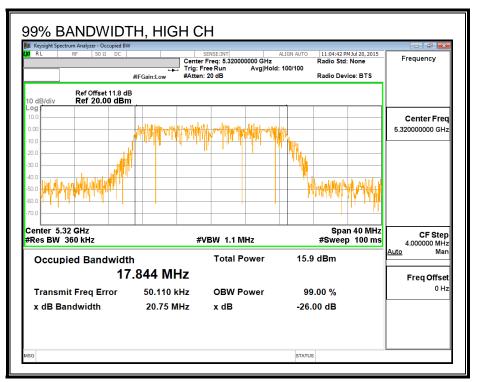


99% BANDWIDTH, CHAIN 1



Page 179 of 905





Page 180 of 905

8.21.3. 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	5260	15.93	15.86	18.91	
Mid	5300	15.85	16.00	18.94	
High	5320	14.98	14.83	17.92	

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Page 181 of 905

8.21.4. 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	Antenna	Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
2.30	2.90	2.61

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

Antenna	Antenna	Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
2.30	2.90	5.62

Page 182 of 905

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	5260	22.059	17.936	2.61	5.62	23.54	11.00
Mid	5300	22.032	17.749	2.61	5.62	23.49	11.00
High	5320	22.059	17.844	2.61	5.62	23.51	11.00

Duty Cycle CF (dB) 0.00

Included in Calculations of Corr'd Power & PSD

Output Power Results

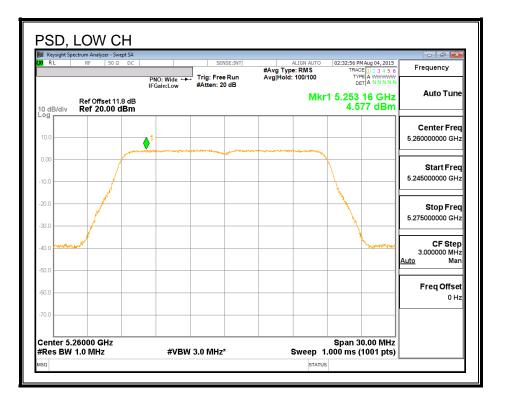
Channel	Frequency	Chain 0	Chain 1	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5260	15.93	15.86	18.91	23.54	-4.63
Mid	5300	15.85	16.00	18.94	23.49	-4.56
High	5320	14.98	14.83	17.92	23.51	-5.60

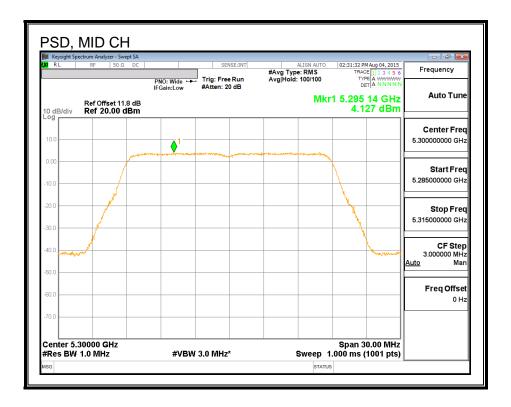
PSD Results

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	5260	4.58	4.54	7.57	11.00	-3.43
Mid	5300	4.13	4.67	7.42	11.00	-3.58
High	5320	3.77	3.41	6.60	11.00	-4.40

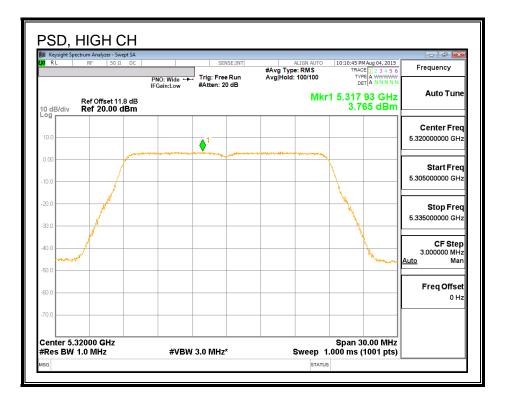
Page 183 of 905

PSD, Chain 0

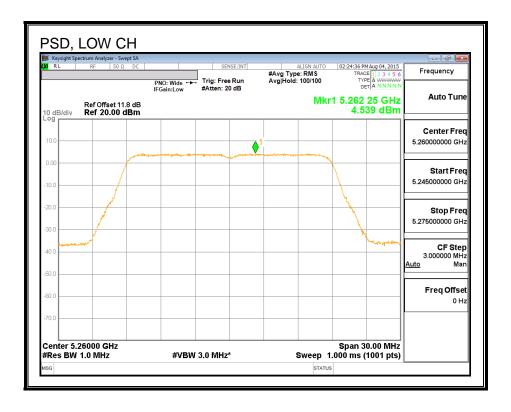




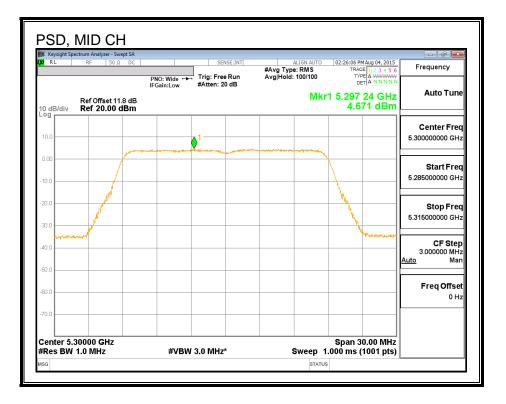
Page 184 of 905

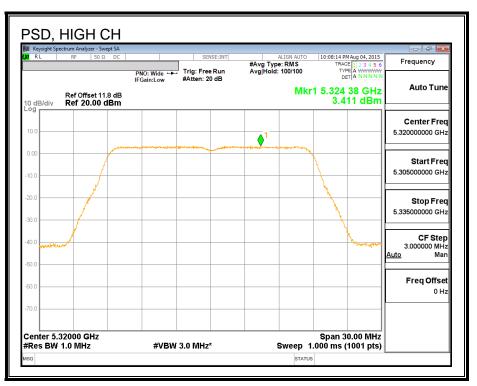


PSD, Chain 1



Page 185 of 905





Page 186 of 905

8.22. 802.11n HT20 2Tx STBC MODE IN THE 5.3 GHz BAND

8.22.1. 26 dB BANDWIDTH

LIMITS

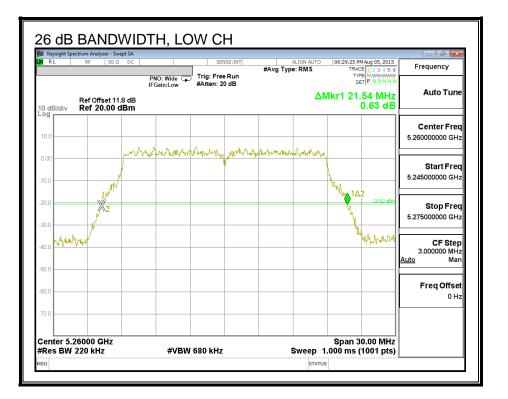
None; for reporting purposes only.

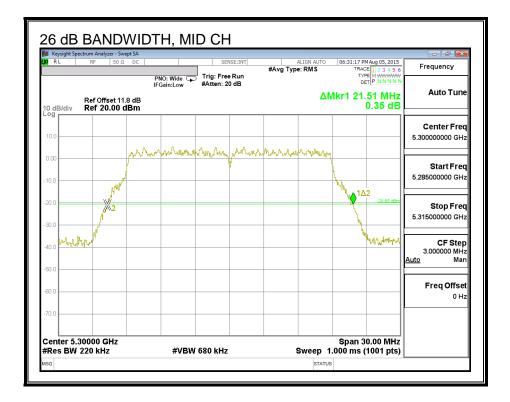
RESULTS

Channel	Frequency	26 dB BW	26 dB BW
		Chain 0	Chain 1
	(MHz)	(MHz)	(MHz)
Low	5260	21.54	21.57
Mid	5300	21.51	21.60
High	5320	21.45	21.42

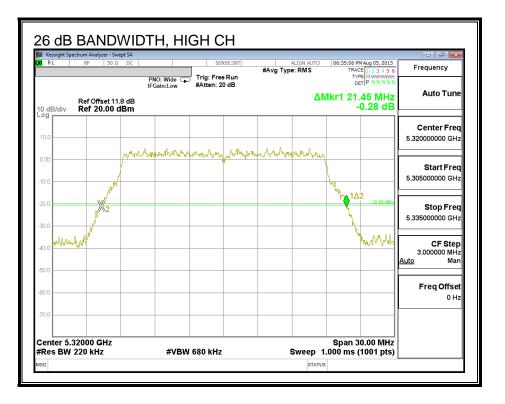
Page 187 of 905

26 dB BANDWIDTH, Chain 0

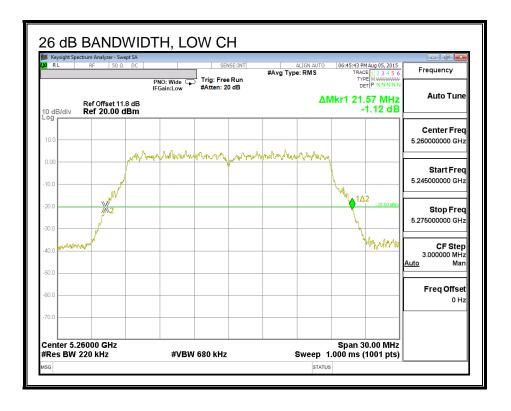




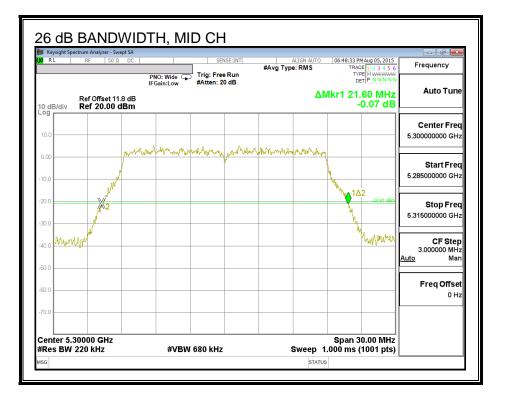
Page 188 of 905

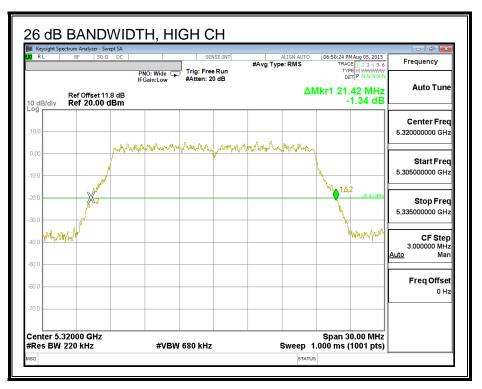


26 dB BANDWIDTH, Chain 1



Page 189 of 905





Page 190 of 905

8.22.2. 99% BANDWIDTH

<u>LIMITS</u>

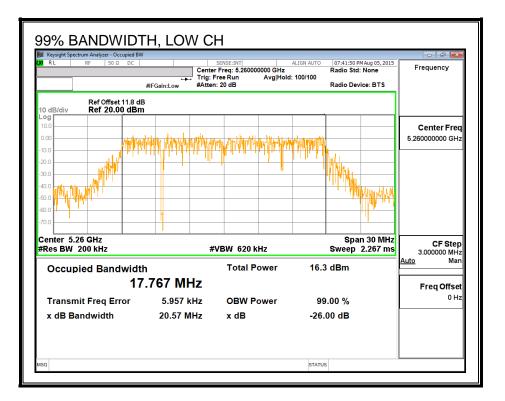
None; for reporting purposes only.

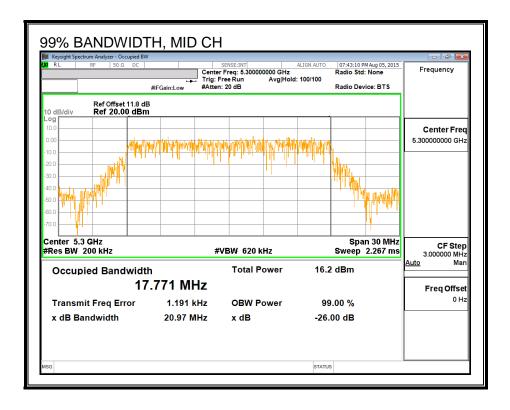
RESULTS

Channel	Frequency	99% BW	99% BW
	····,	Chain 0	Chain 1
	(MHz)	(MHz)	(MHz)
Low	5260	17.767	17.208
Mid	5300	17.771	17.743
High	5320	17.703	17.793

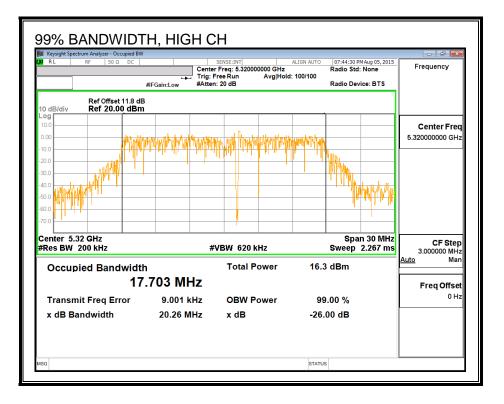
Page 191 of 905

99% BANDWIDTH, Chain 0

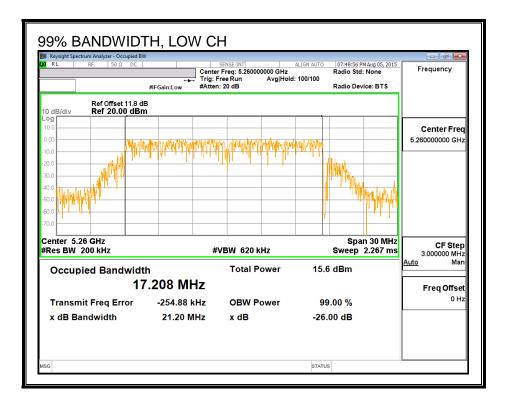




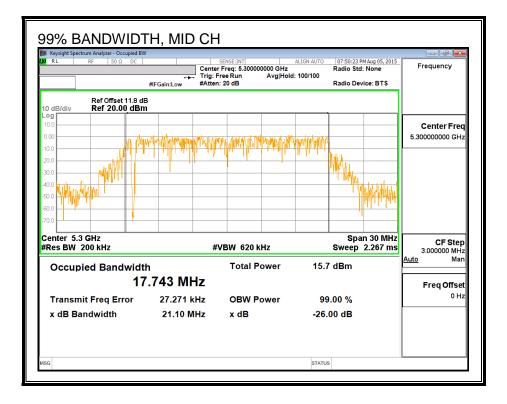
Page 192 of 905

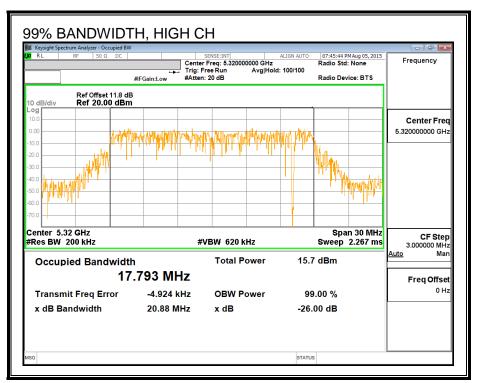


99% BANDWIDTH, Chain 1



Page 193 of 905





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Page 194 of 905

8.22.3. AVERAGE POWER

<u>LIMITS</u>

None; for reporting purposes only.

RESULTS

Average Power Results

Channel	Frequency	Chain 0	Chain 1	Total
		Power	Power	Power
	(MHz)	(dBm)	(dBm)	(dBm)
Low	5260	16.38	16.90	19.66
Mid	5300	16.48	16.83	19.67
High	5320	14.88	14.92	17.91

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Page 195 of 905

8.22.4. 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:

Chain 0	Chain 1	Uncorrelated Chains
Antenna	Antenna	Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
2.30	2.90	2.61

Page 196 of 905

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	5260	21.57	17.767	2.61	2.61	23.50	11.00
Mid	5300	21.60	17.771	2.61	2.61	23.50	11.00
High	5320	21.45	17.793	2.61	2.61	23.50	11.00

Duty Cycle CF (dB) 0.00

Included in Calculations of Corr'd Power & PSD

Output Power Results

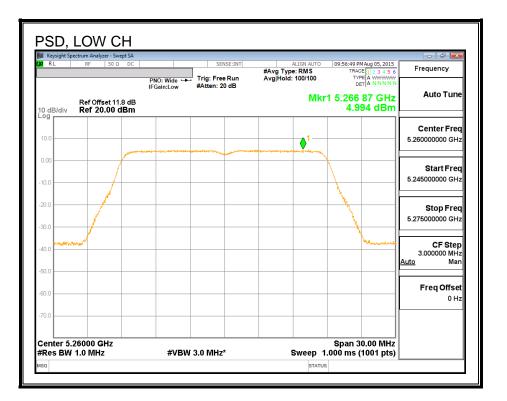
Channel	Frequency	Chain 0	Chain 1	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5260	16.38	16.90	19.66	23.50	-3.84
Mid	5300	16.48	16.83	19.67	23.50	-3.83
High	5320	14.88	14.92	17.91	23.50	-5.59

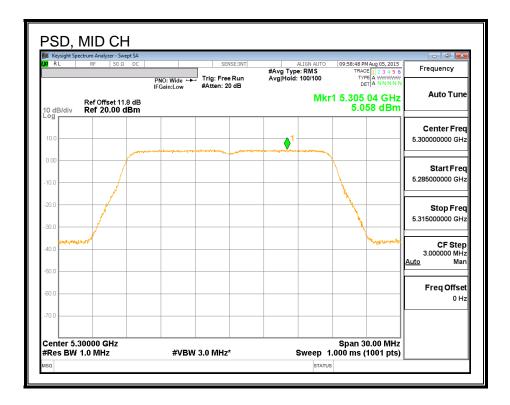
PSD Results

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	5260	4.99	5.74	8.39	11.00	-2.61
Mid	5300	5.06	5.62	8.36	11.00	-2.64
High	5320	3.36	3.45	6.42	11.00	-4.58

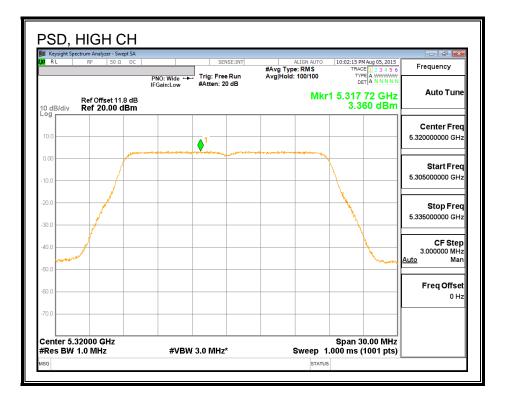
Page 197 of 905

PSD, Chain 0

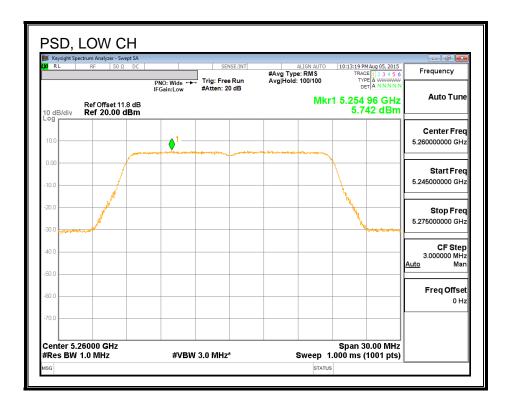




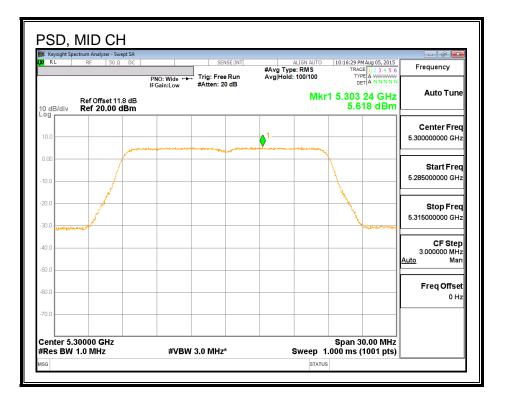
Page 198 of 905

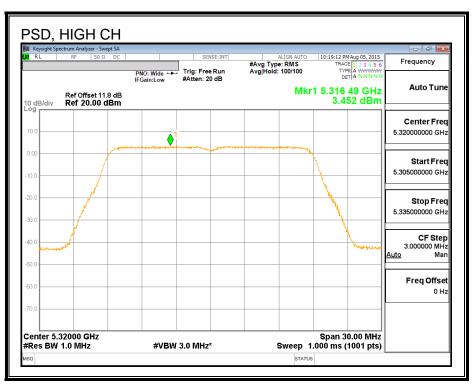


PSD, Chain 1



Page 199 of 905





Page 200 of 905

8.23. 802.11n HT20 2Tx SDM MODE IN THE 5.3 GHz BAND

Note: Covered by 802.11n HT20 2Tx STBC MODE

Page 201 of 905

8.24. 802.11n HT40 CHAIN 0 MODE IN THE 5.3 GHz BAND

8.24.1. 26 dB BANDWIDTH

LIMITS

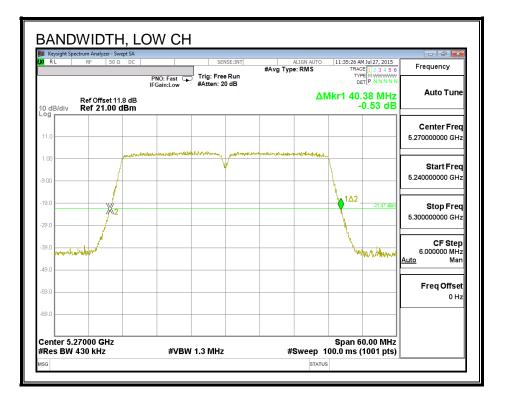
None; for reporting purposes only.

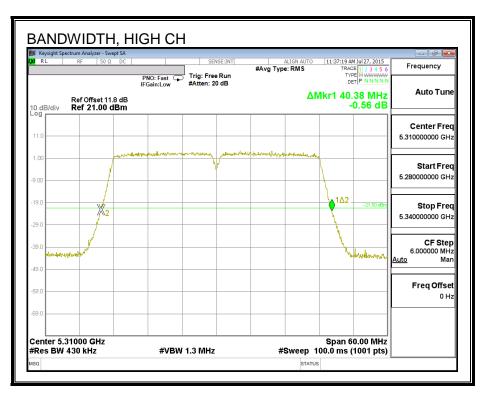
<u>RESULTS</u>

Channel	Frequency	26 dB Bandwidth	
	(MHz)	(MHz)	
Low	5270	40.38	
High	5310	40.38	

Page 202 of 905

26 dB BANDWIDTH





Page 203 of 905

8.24.2. 99% BANDWIDTH

<u>LIMITS</u>

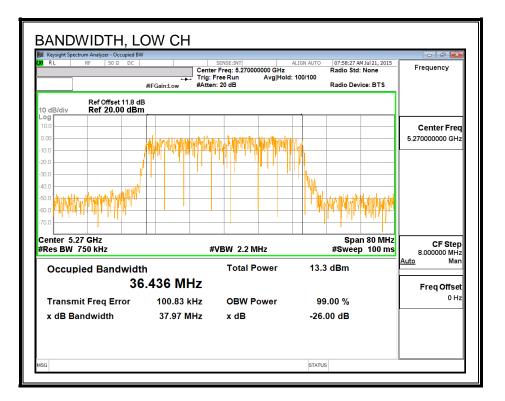
None; for reporting purposes only.

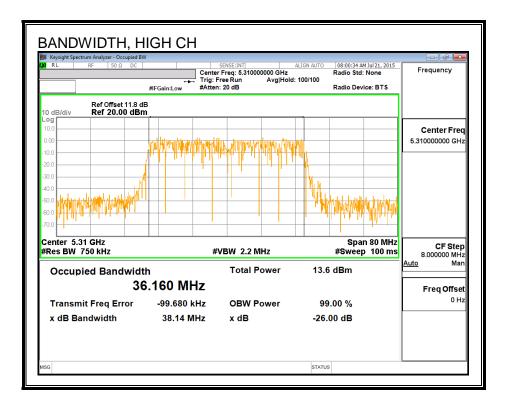
RESULTS

Channel	Frequency	99% Bandwidth	
	(MHz)	(MHz)	
Low	5270	36.436	
High	5310	36.160	

Page 204 of 905

99% BANDWIDTH





Page 205 of 905

8.24.3. AVERAGE POWER

<u>LIMITS</u>

None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	Power (dBm)
Low	5270	16.44
High	5310	14.39

Page 206 of 905

8.24.4. 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

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

Page 207 of 905

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	5270	40.38	36.436	2.30	24.00	11.00
High	5310	40.38	36.160	2.30	24.00	11.00

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

Output Power Results

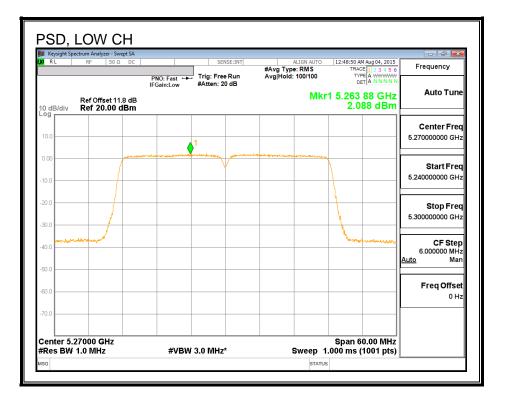
Channel	Frequency		Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5270	16.44	16.44	24.00	-7.56
High	5310	14.39	14.39	24.00	-9.61

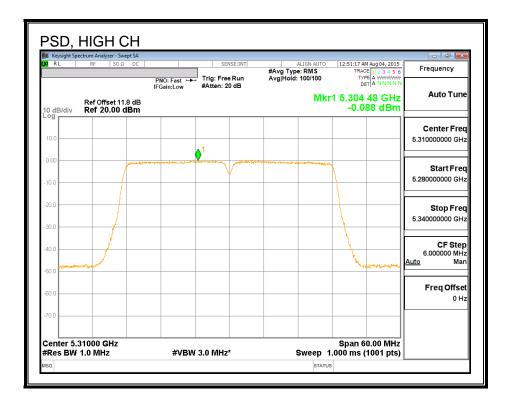
PSD Results

Channel	Frequency		Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5270	2.09	2.09	11.00	-8.91
High	5310	-0.09	-0.09	11.00	-11.09

Page 208 of 905

<u>PSD</u>





Page 209 of 905

8.25. 802.11n HT40 CHAIN 1 MODE IN THE 5.3 GHz BAND

8.25.1. 26 dB BANDWIDTH

LIMITS

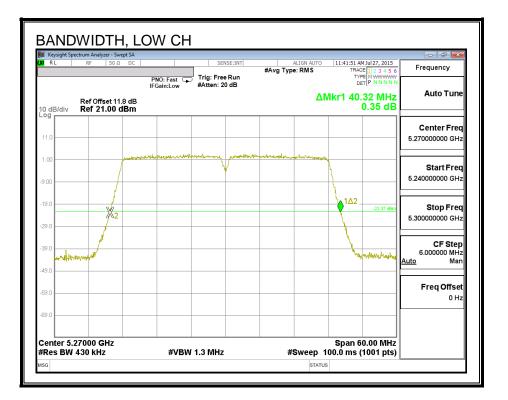
None; for reporting purposes only.

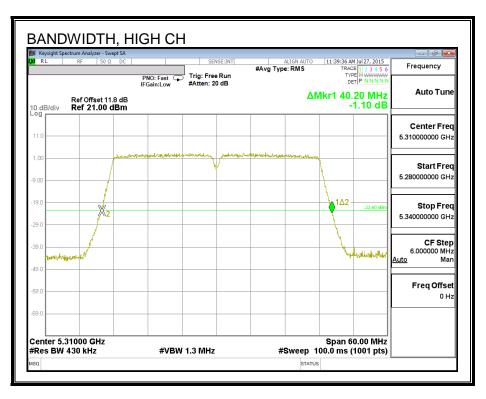
<u>RESULTS</u>

Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Low	5270	40.32
High	5310	40.20

Page 210 of 905

26 dB BANDWIDTH





Page 211 of 905

8.25.2. 99% BANDWIDTH

<u>LIMITS</u>

None; for reporting purposes only.

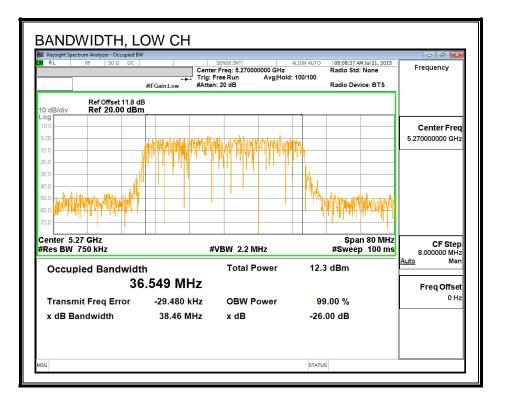
RESULTS

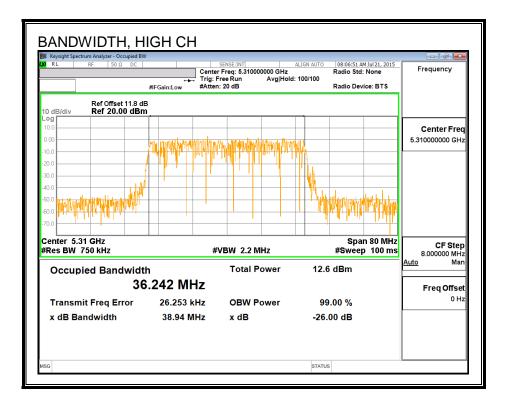
Channel Frequency		99% Bandwidth
	(MHz)	(MHz)
Low	5270	36.549
High	5310	36.242

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Page 212 of 905

99% BANDWIDTH





Page 213 of 905

8.25.3. AVERAGE POWER

<u>LIMITS</u>

None; for reporting purposes only.

RESULTS

Channel	Frequency	Power
	(MHz)	(dBm)
Low	5270	16.84
High	5310	14.42

Page 214 of 905

8.25.4. 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

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

Page 215 of 905

RESULTS

Bandwidth, Antenna Gain, and Limits

Frequency	Min	Min	Directional	Power	PSD
	26 dB	99%	Gain	Limit	Limit
	BW	BW			
(MHz)	(MHz)	(MHz)	(dBi)	(dBm)	(dBm)
5270	40.32	36.549	2.90	24.00	11.00
5310	40.20	36.242	2.90	24.00	11.00
	(MHz) 5270	26 dB BW (MHz) (MHz) 5270 40.32	26 dB 99% BW BW (MHz) (MHz) (MHz) 5270 40.32 36.549	26 dB 99% Gain BW BW Gain (MHz) (MHz) (MHz) (dBi) 5270 40.32 36.549 2.90	26 dB 99% Gain Limit BW BW Gain Limit (MHz) (MHz) (MHz) (dBi) (dBm) 5270 40.32 36.549 2.90 24.00

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

Output Power Results

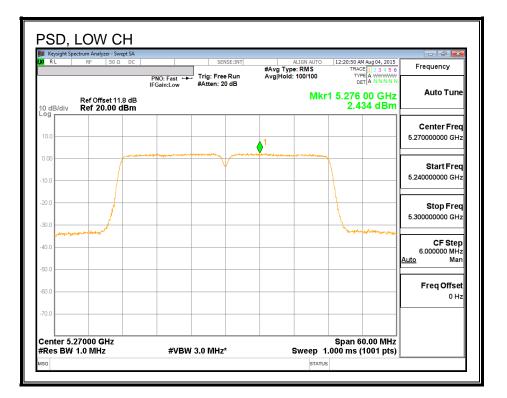
Channel	Frequency		Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5270	16.84	16.84	24.00	-7.16
High	5310	14.42	14.42	24.00	-9.58

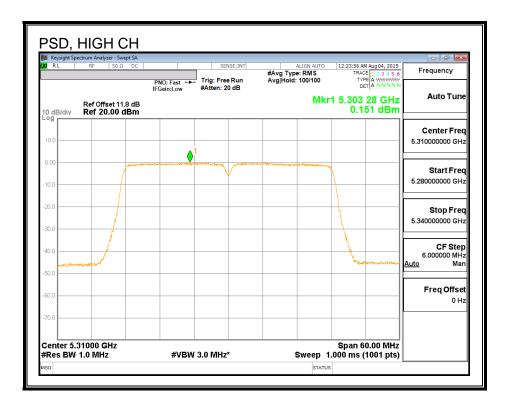
PSD Results

Channel	Frequency		Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5270	2.43	2.43	11.00	-8.57
High	5310	0.15	0.15	11.00	-10.85

Page 216 of 905

<u>PSD</u>





Page 217 of 905

8.26. 802.11n HT40 2Tx CDD MODE IN THE 5.3 GHz BAND

8.26.1. 26 dB BANDWIDTH

LIMITS

None; for reporting purposes only.

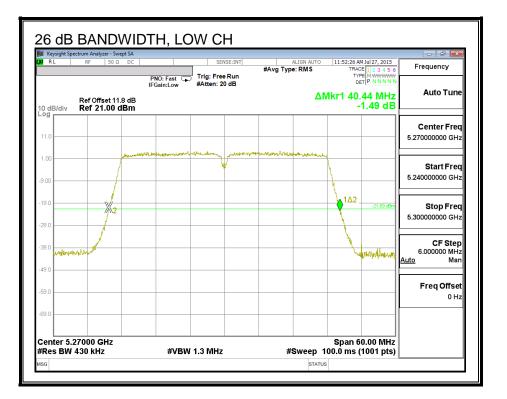
RESULTS

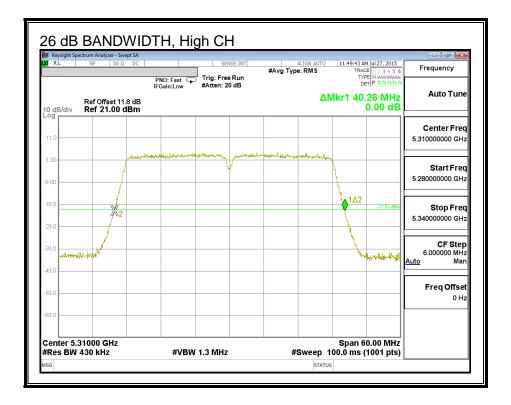
Channel	Frequency	26 dB BW	26 dB BW
		Chain 0	Chain 1
	(MHz)	(MHz)	(MHz)
Low	5270	40.44	40.02
High	5310	40.26	40.02

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Page 218 of 905

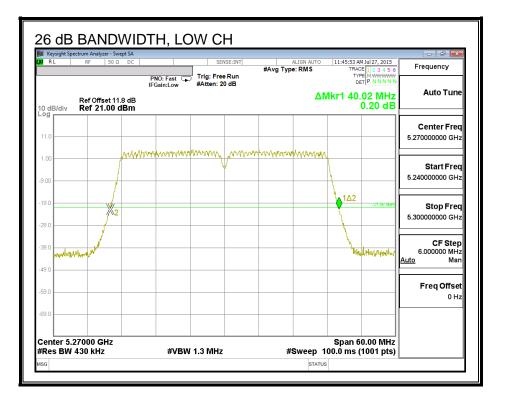
26 DB BANDWIDTH, CHAIN 0

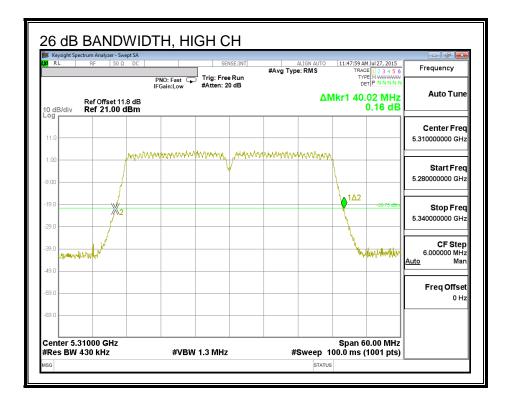




Page 219 of 905

26 DB BANDWIDTH, CHAIN 1





Page 220 of 905

8.26.2. 99% BANDWIDTH

<u>LIMITS</u>

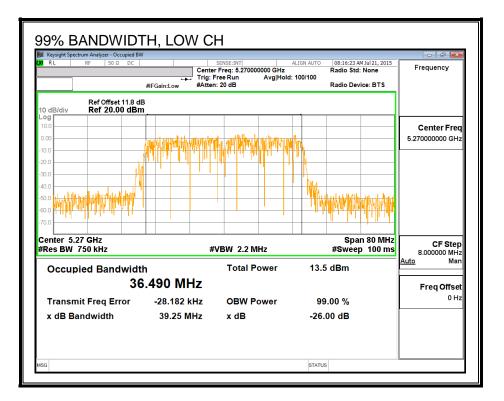
None; for reporting purposes only.

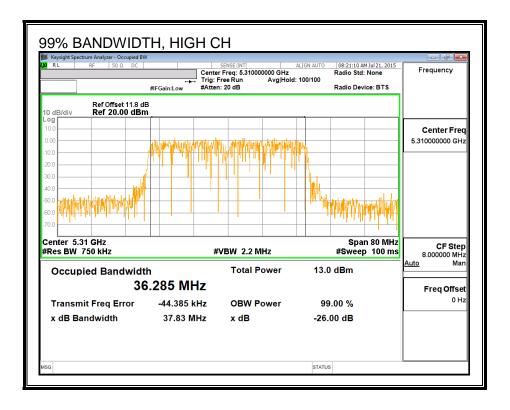
RESULTS

Channel	Frequency	99% BW	99% BW
		Chain 0	Chain 1
	(MHz)	(MHz)	(MHz)
Low	5270	36.490	36.436
High	5310	36.285	36.443

Page 221 of 905

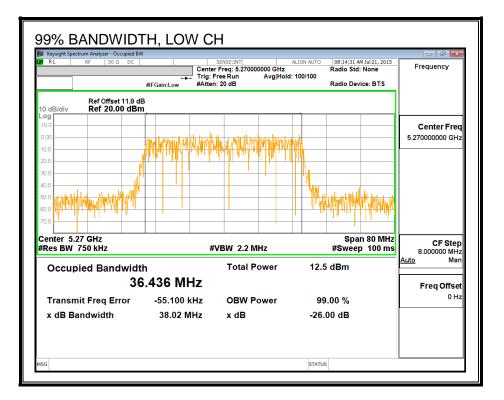
99% BANDWIDTH, CHAIN 0

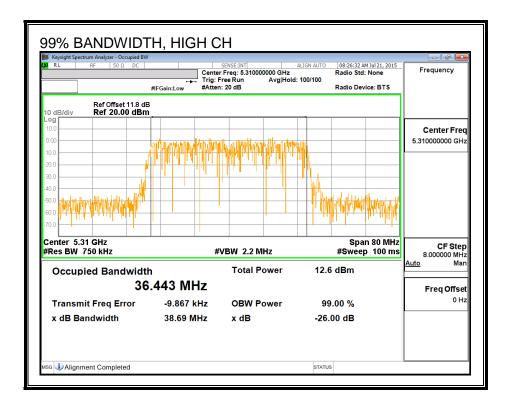




Page 222 of 905

99% BANDWIDTH, CHAIN 1





Page 223 of 905

8.26.3. AVERAGE POWER

<u>LIMITS</u>

None; for reporting purposes only.

RESULTS

Average Power Results

Channel	Frequency	Chain 0	Chain 1	Total
		Power	Power	Power
	(MHz)	(dBm)	(dBm)	(dBm)
Low	5270	15.97	16.00	19.00
High	5310	13.45	13.37	16.42

Page 224 of 905

8.26.4. 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:

Chain 0	Chain 1	Uncorrelated Chains
Antenna	Antenna	Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
2.30	2.90	2.61

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

Antenna	Antenna	Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
2.30	2.90	5.62

Page 225 of 905

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	5270	40.02	36.436	2.61	5.62	24.00	11.00
High	5310	40.02	36.285	2.61	5.62	24.00	11.00

Output Power Results

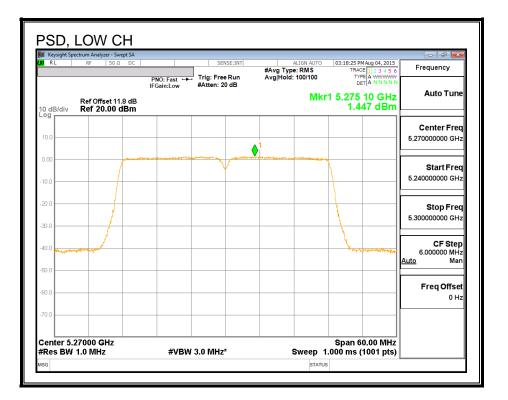
Channel	Frequency	Chain 0	Chain 1	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5270	15.97	16.00	19.00	24.00	-5.00
High	5310	13.45	13.37	16.42	24.00	-7.58

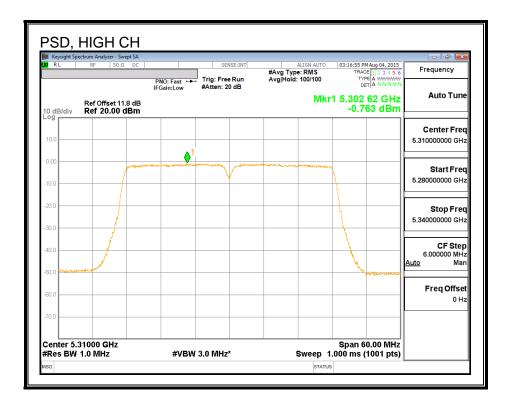
PSD Results

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	5270	1.45	1.59	4.53	11.00	-6.47
High	5310	-0.76	-0.96	2.15	11.00	-8.85

Page 226 of 905

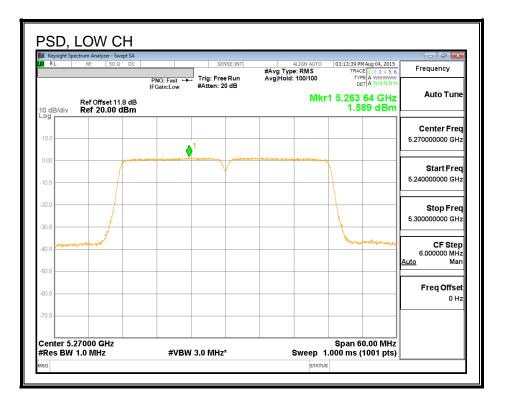
PSD, Chain 0

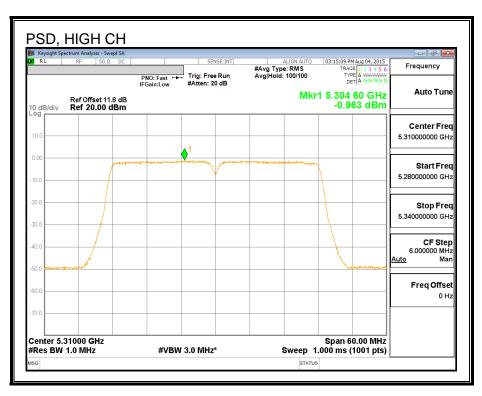




Page 227 of 905

PSD, Chain 1





Page 228 of 905

8.27. 802.11n HT40 2Tx STBC MODE IN THE 5.3 GHz BAND

8.27.1. 26 dB BANDWIDTH

LIMITS

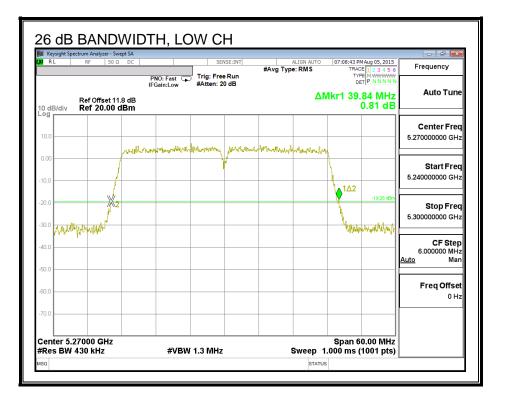
None; for reporting purposes only.

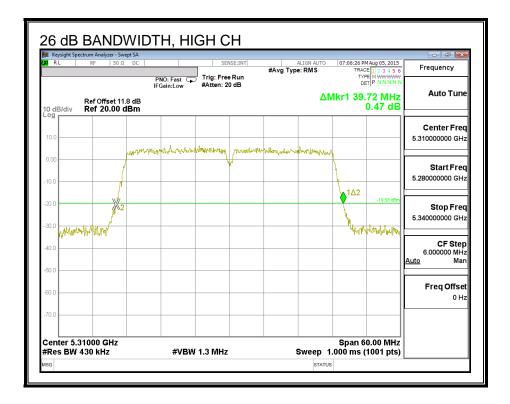
RESULTS

Channel	Frequency	26 dB BW	26 dB BW
		Chain 0	Chain 1
	(MHz)	(MHz)	(MHz)
Low	5270	39.84	39.54
High	5310	39.72	39.78

Page 229 of 905

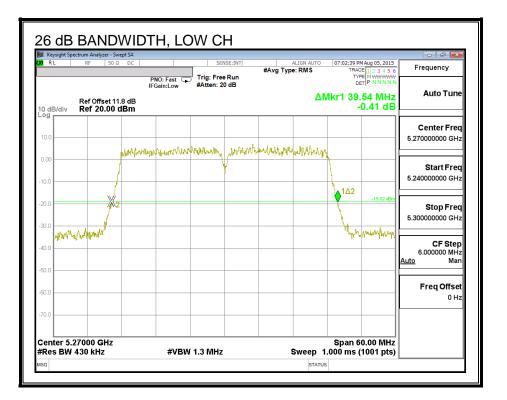
26 dB BANDWIDTH, Chain 0

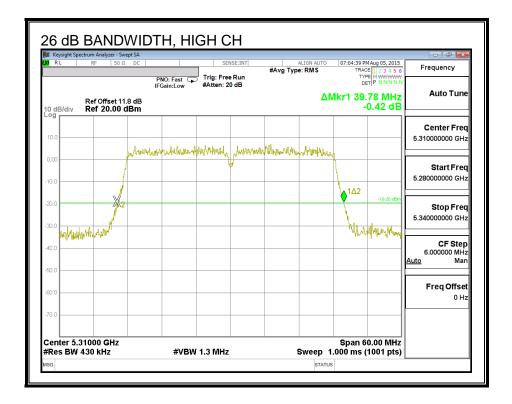




Page 230 of 905

26 dB BANDWIDTH, Chain 1





Page 231 of 905

8.27.2. 99% BANDWIDTH

<u>LIMITS</u>

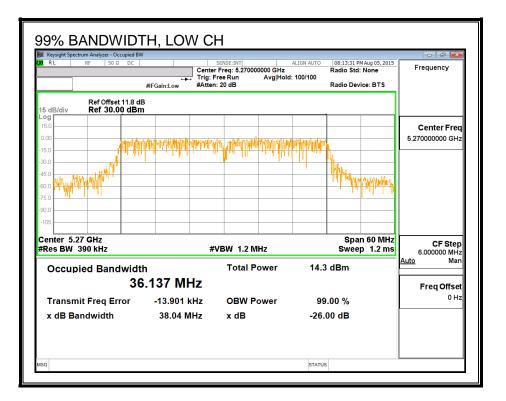
None; for reporting purposes only.

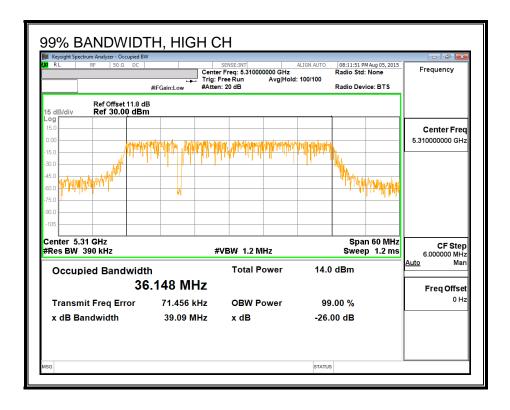
RESULTS

Channel	Frequency	99% BW	99% BW
		Chain 0	Chain 1
	(MHz)	(MHz)	(MHz)
Low	5270	36.137	36.377
High	5310	36.148	36.291

Page 232 of 905

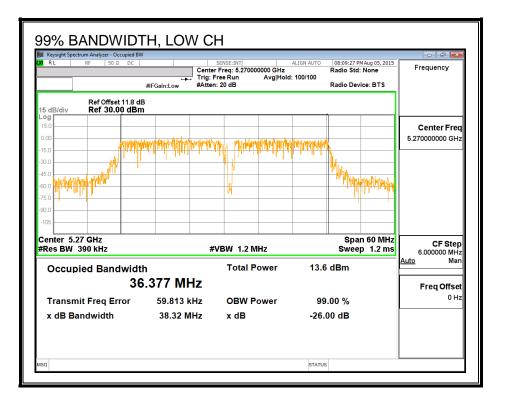
99% BANDWIDTH, Chain 0

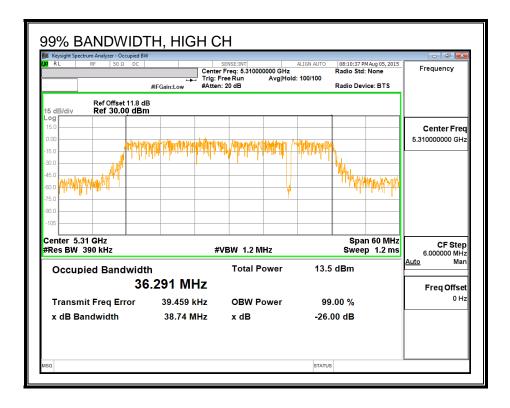




Page 233 of 905

99% BANDWIDTH, Chain 1





Page 234 of 905

8.27.3. AVERAGE POWER

<u>LIMITS</u>

None; for reporting purposes only.

RESULTS

Average Power Results

Channel	Frequency	Chain 0	Chain 1	Total
		Power	Power	Power
	(MHz)	(dBm)	(dBm)	(dBm)
Low	5270	16.49	16.98	19.75
High	5310	13.45	13.37	16.42

Page 235 of 905

8.27.4. 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	Antenna	Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
2.30	2.90	2.61

Page 236 of 905

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	5270	39.54	36.137	2.61	2.61	24.00	11.00
High	5310	39.72	36.148	2.61	2.61	24.00	11.00

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

Output Power Results

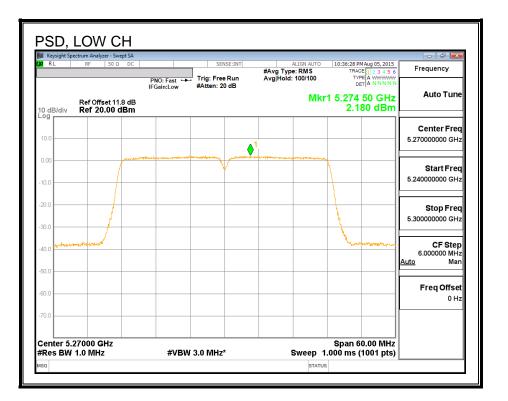
Channel	Frequency	Chain 0	Chain 1	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5270	16.49	16.98	19.75	24.00	-4.25
High	5310	13.45	13.37	16.42	24.00	-7.58

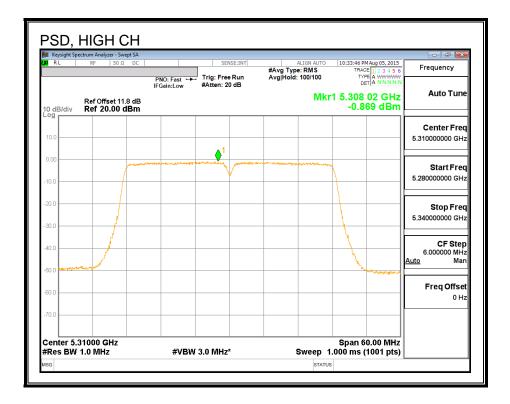
PSD Results

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	5270	2.18	2.58	5.40	11.00	-5.60
High	5310	-0.87	-0.94	2.11	11.00	-8.89

Page 237 of 905

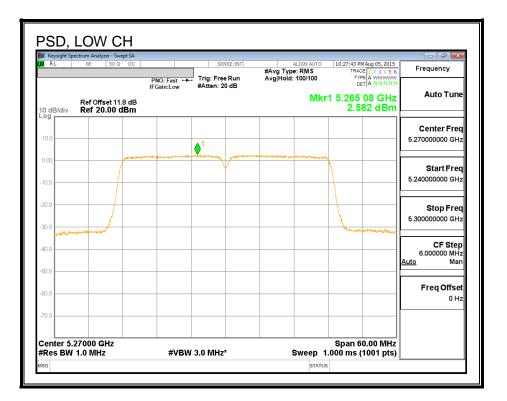
PSD, Chain 0

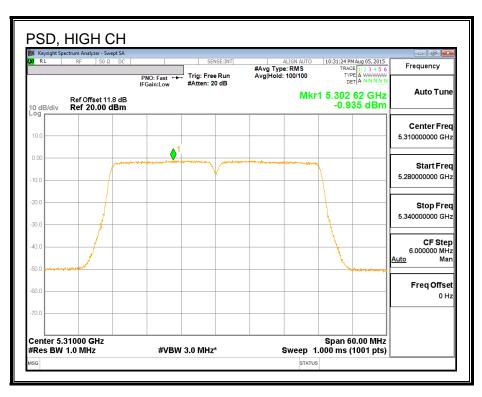




Page 238 of 905

PSD, Chain 1





Page 239 of 905

8.28. 802.11n HT40 2Tx SDM MODE IN THE 5.3 GHz BAND

Note: Covered by 802.11n HT40 2Tx STBC MODE

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Page 240 of 905

8.29. 802.11ac VHT80 CHAIN 0 MODE IN THE 5.3 GHz BAND

8.29.1. 26 dB BANDWIDTH

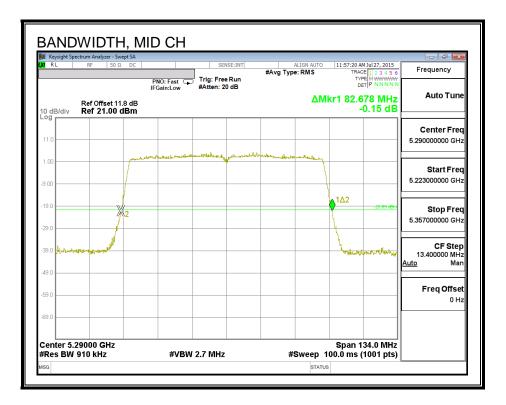
LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Mid	5290	82.68

26 dB BANDWIDTH



8.29.2. 99% **BANDWIDTH**

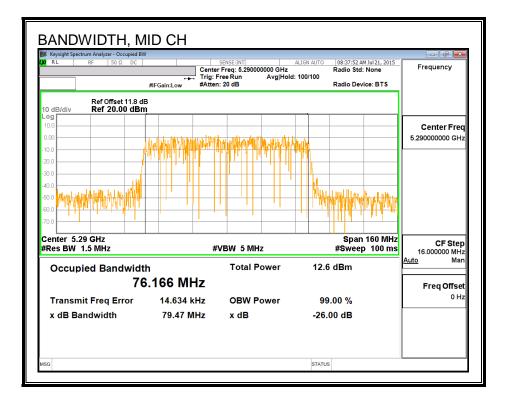
<u>LIMITS</u>

None; for reporting purposes only.

RESULTS

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Mid	5290	76.166

99% BANDWIDTH



Page 242 of 905

8.29.3. AVERAGE POWER

<u>LIMITS</u>

None; for reporting purposes only.

RESULTS

Channel	Frequency	Power	
	(MHz)	(dBm)	
Mid	5290	14.35	

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Page 243 of 905

8.29.4. 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.

Page 244 of 905

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)
Mid	5290	82.68	76.166	2.30	24.00	11.00

Duty Cycle CF (dB) 0.1	9 Included in (Calculations of Corr'd Power & PSD
------------------------	-----------------	------------------------------------

Output Power Results

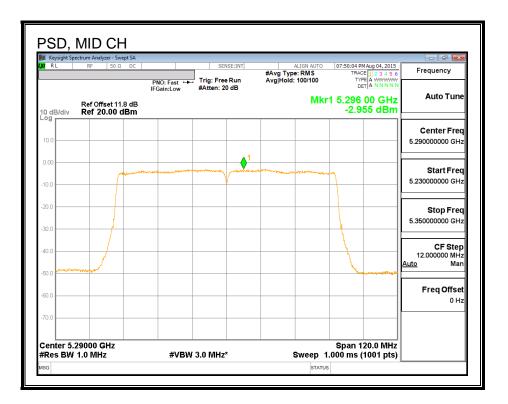
Channel	Frequency	Chain 0	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Mid	5290	14.16	14.35	24.00	-9.65

PPSD Results

Channel	Frequency	Chain 0	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Mid	5290	-2.96	-2.77	11.00	-13.77

Page 245 of 905

PSD, Chain 0



Page 246 of 905

8.30. 802.11ac VHT80 CHAIN 1 MODE IN THE 5.3 GHz BAND

8.30.1. 26 dB BANDWIDTH

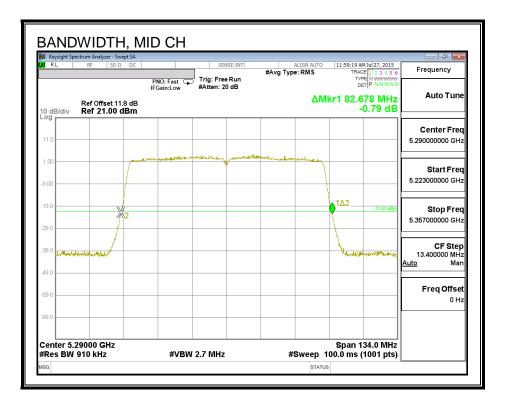
<u>LIMITS</u>

None; for reporting purposes only.

<u>RESULTS</u>

Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Mid	5290	82.68

26 dB BANDWIDTH



8.30.2. 99% BANDWIDTH

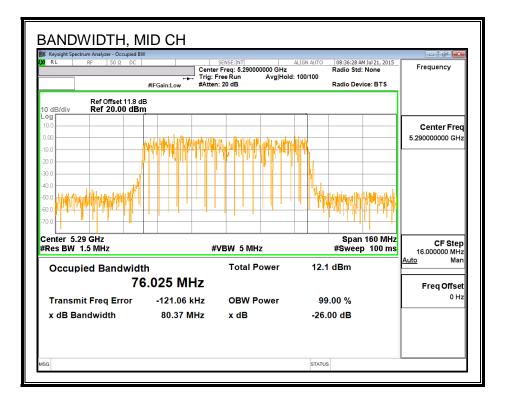
<u>LIMITS</u>

None; for reporting purposes only.

RESULTS

Channel	Frequency 99% Bandwidt	
	(MHz)	(MHz)
Mid	5290	76.025

99% BANDWIDTH



Page 248 of 905

8.30.3. AVERAGE POWER

<u>LIMITS</u>

None; for reporting purposes only.

RESULTS

Channel	Frequency	Power
	(MHz)	(dBm)
Mid	5290	14.50

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Page 249 of 905

8.30.4. 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.

Page 250 of 905

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)
Mid	5290	82.68	76.025	2.90	24.00	11.00

Duty Cycle CF (dB) 0.1	9 Included in Calculations of Corr'd Power & PSD
------------------------	--

Output Power Results

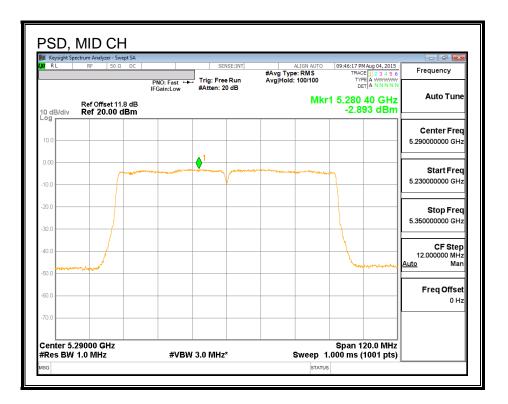
Channel	Frequency	Chain 0	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Mid	5290	14.31	14.50	24.00	-9.50

PPSD Results

Channel	Frequency	Chain 0	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Mid	5290	-2.89	-2.70	11.00	-13.70

Page 251 of 905

PSD, Chain 1



Page 252 of 905

8.31. 802.11ac VHT80 2Tx CDD MODE IN THE 5.3 GHz BAND

8.31.1. 26 dB BANDWIDTH

LIMITS

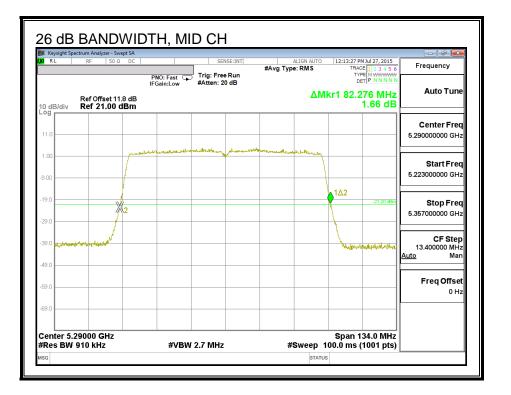
None; for reporting purposes only.

<u>RESULTS</u>

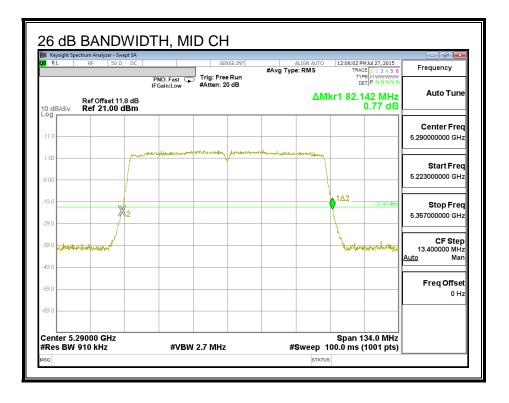
Channel	Frequency	26 dB BW	26 dB BW
		Chain 0	Chain 1
	(MHz)	(MHz)	(MHz)
Mid	5290	82.28	82.14

Page 253 of 905

26 DB BANDWIDTH, CHAIN 0



26 DB BANDWIDTH, CHAIN 1



Page 254 of 905

8.31.2. 99% BANDWIDTH

<u>LIMITS</u>

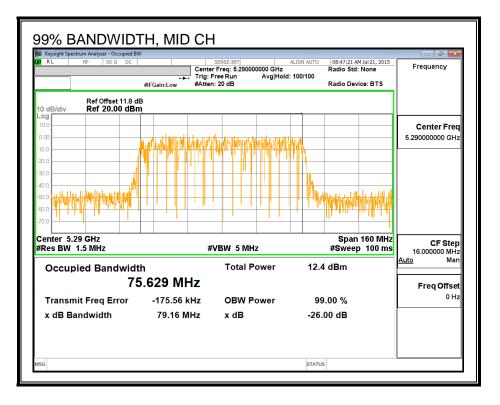
None; for reporting purposes only.

RESULTS

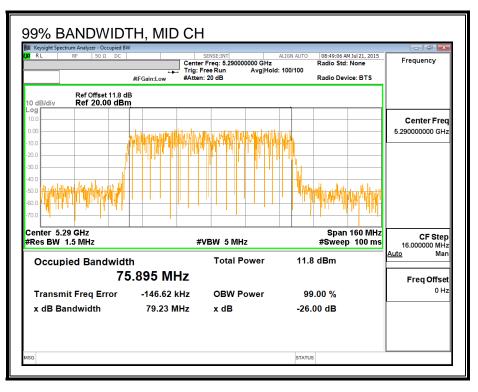
Channel	Frequency	99% BW	99% BW
		Chain 0	Chain 1
	(MHz)	(MHz)	(MHz)
Mid	5290	75.629	75.895

Page 255 of 905

99% BANDWIDTH, CHAIN 0



99% BANDWIDTH, CHAIN 1



Page 256 of 905

8.31.3. AVERAGE POWER

<u>LIMITS</u>

None; for reporting purposes only.

RESULTS

Average Power Results

Channel	Frequency	Chain 0	Chain 1	Total
		Power	Power	Power
	(MHz)	(dBm)	(dBm)	(dBm)
Mid	5290	12.87	12.94	15.92

Page 257 of 905

8.31.4. 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:

Chain 0	Chain 1	Uncorrelated Chains
Antenna	Antenna	Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
2.30	2.90	2.61

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

Antenna	Antenna	Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
2.30	2.90	5.62

Page 258 of 905

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)
Mid	5290	82.14	75.629	2.61	5.62	24.00	11.00

Duty Cycle CF (dB)	0.22	Included in Calculations of Corr'd Power & PSD
	•	

Output Power Results

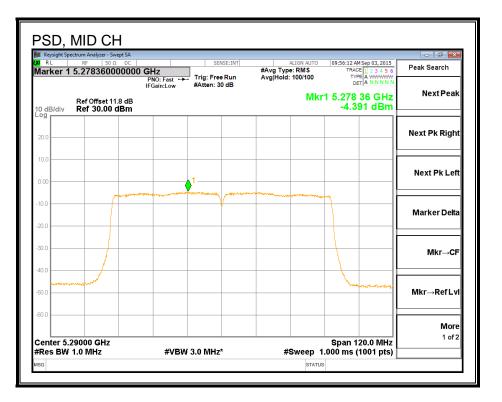
Channel	Frequency	Chain 0	Chain 1	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Mid	5290	12.65	12.72	15.92	24.00	-8.08

PSD Results

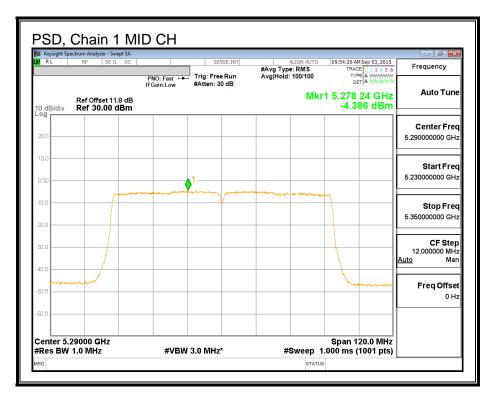
Channel	Frequency	Chain 0	Chain 1	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Mid	5290	-4.391	-4.386	-1.16	11.00	-12.16

Page 259 of 905

PSD, Chain 0



PSD, Chain 1



Page 260 of 905

8.32. 802.11n VHT80 2Tx STBC/SDM MODE IN THE 5.3 GHz BAND

Note: Covered by 802.11n HT20 2Tx CDD MODE

Page 261 of 905

8.33. 802.11a SISO MODE IN THE 5.6 GHz BAND

Note: Covered by 802.11n HT20 SISO CDD MODE

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Page 262 of 905

8.34. 802.11n HT20 CHAIN 0 MODE IN THE 5.6 GHz BAND

8.34.1. 26 dB BANDWIDTH

LIMITS

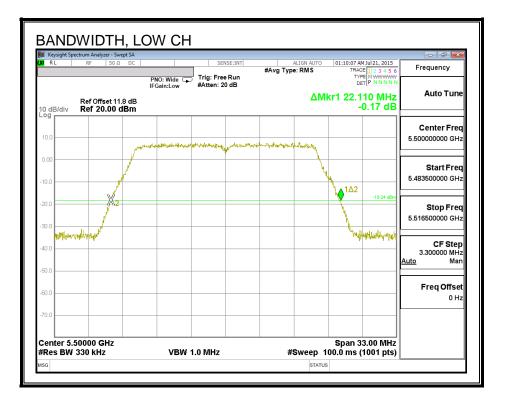
None; for reporting purposes only.

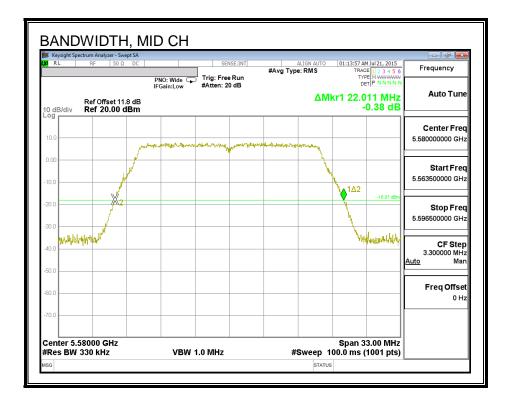
<u>RESULTS</u>

Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Low	5500	22.11
Mid	5580	22.01
High	5700	22.01
144	5720	22.21

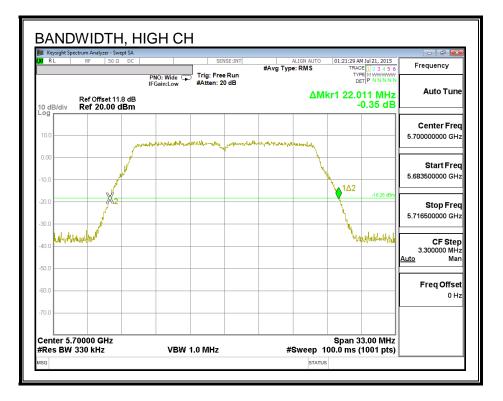
Page 263 of 905

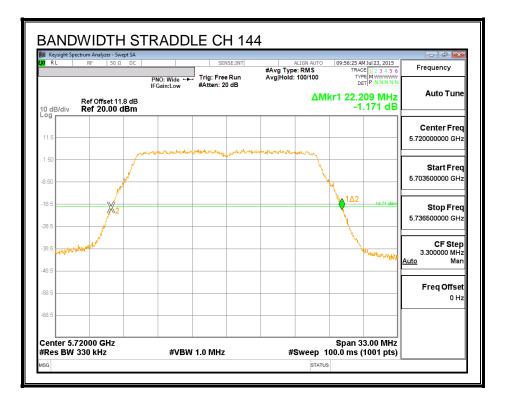
26 dB BANDWIDTH





Page 264 of 905





Page 265 of 905

8.34.2. 99% BANDWIDTH

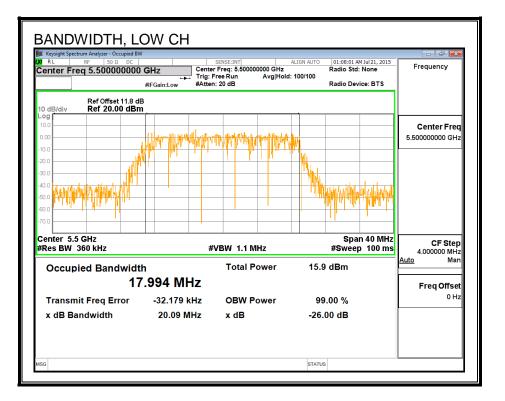
<u>LIMITS</u>

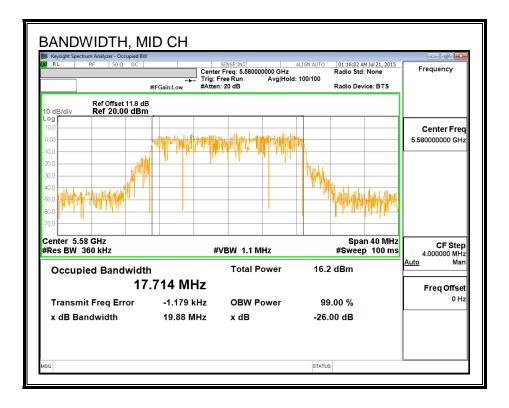
None; for reporting purposes only.

RESULTS

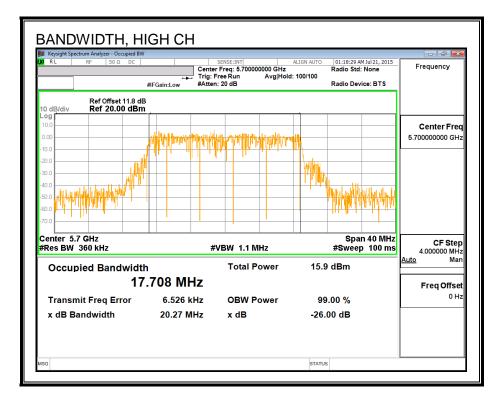
Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Low	5500	17.994
Mid	5580	17.714
High	5700	17.708
144	5720	17.975

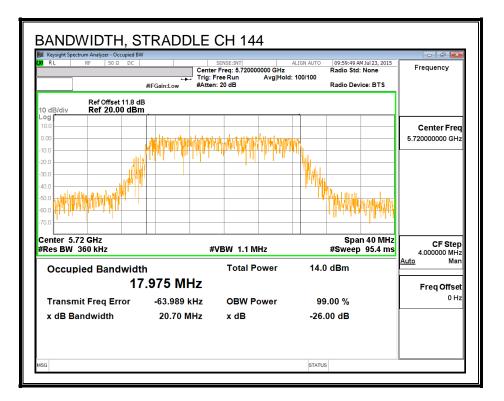
99% BANDWIDTH





Page 267 of 905





Page 268 of 905

8.34.3. AVERAGE POWER

<u>LIMITS</u>

None; for reporting purposes only.

RESULTS

Channel	Frequency	Power
	(MHz)	(dBm)
Low	5500	15.33
Mid	5580	15.38
High	5700	14.87
144	5720	15.50

Page 269 of 905

8.34.4. 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.

Page 270 of 905

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	17.994	2.70	23.55	11.00
Mid	5580	22.01	17.714	2.70	23.48	11.00
High	5700	22.01	17.708	2.70	23.48	11.00

Included in Calculations of Corr'd Power & PSD

Duty Cycle CF (dB) 0.00

Output Power Results

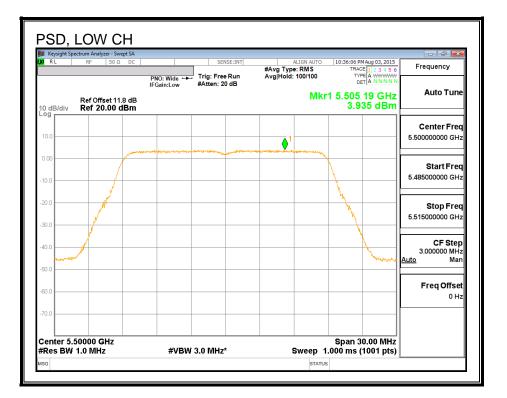
Channel	Frequency		Total	Power	Power		
		Meas	Corr'd	Limit	Margin		
		Power	Power				
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)		
Low	5500	15.33	15.33	23.55	-8.22		
Mid	5580	15.38	15.38	23.48	-8.10		
High	5700	14.87	14.87	23.48	-8.61		

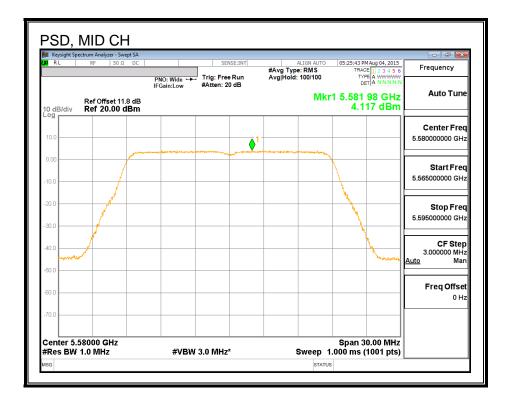
PSD Results

Channel	Frequency		Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5500	3.94	3.94	11.00	-7.07
Mid	5580	4.12	4.12	11.00	-6.88
High	5700	3.47	3.47	11.00	-7.53

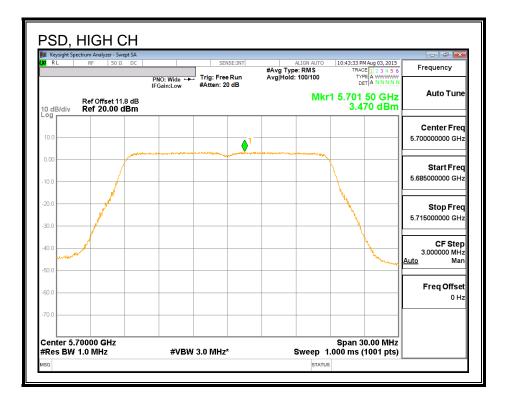
Page 271 of 905

<u>PSD</u>





Page 272 of 905



Page 273 of 905

8.34.5. 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	16.10	2.70	2.70	23.07	11.00

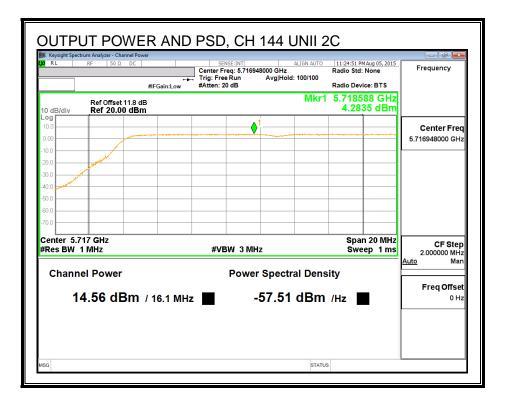
Output Power Results

Channel	Frequency		Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
144	5720	14.56	14.56	23.07	-8.51

PSD Results

Channel	Frequency		Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
144	5720	4.28	4.28	11.00	-6.72

Page 274 of 905



Page 275 of 905

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	6.10	2.70	30.00	30.00

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

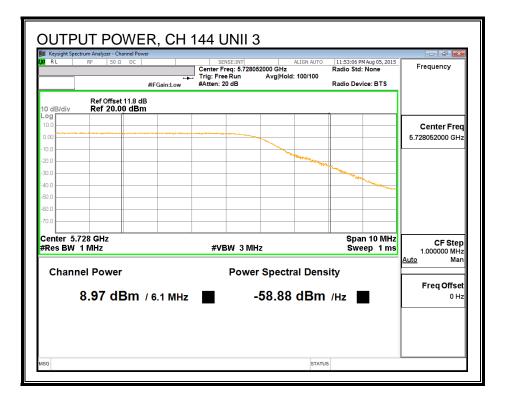
Output Power Results

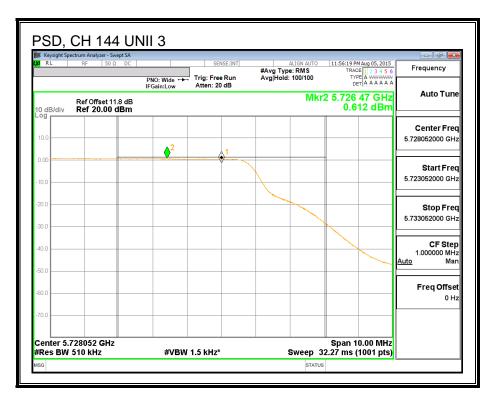
Channel	Frequency		Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
144	5720	8.97	8.97	30.00	-21.03

PSD Results

Channel	Frequency		Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
144	5720	0.61	0.61	30.00	-29.39

Page 276 of 905





Page 277 of 905

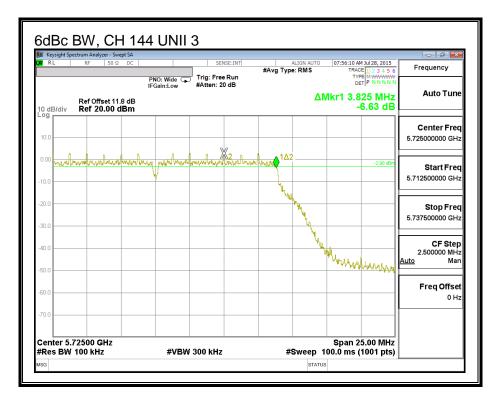
8.34.6. 6 dB BANDWIDTH

LIMITS

FCC §15.407 (e)

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

RESULTS



Page 278 of 905