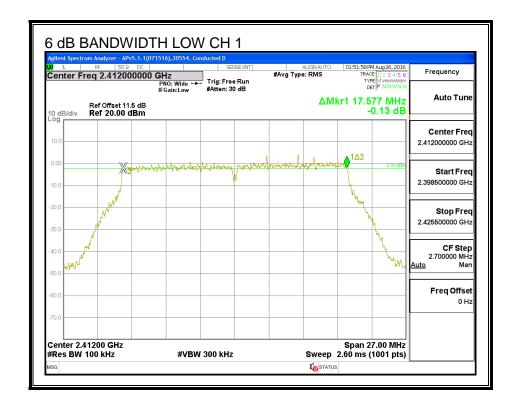
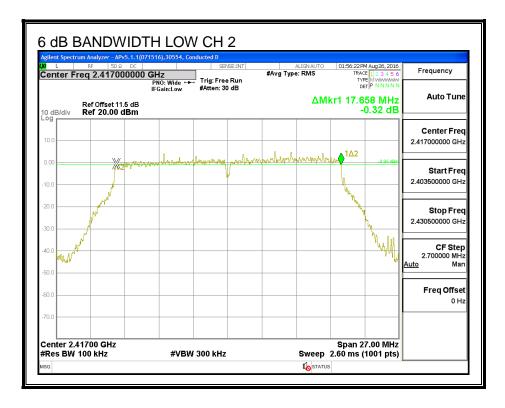
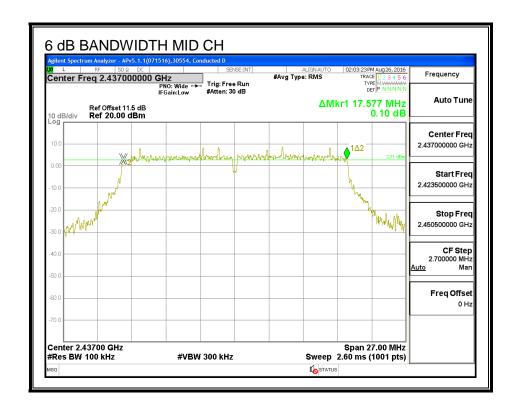
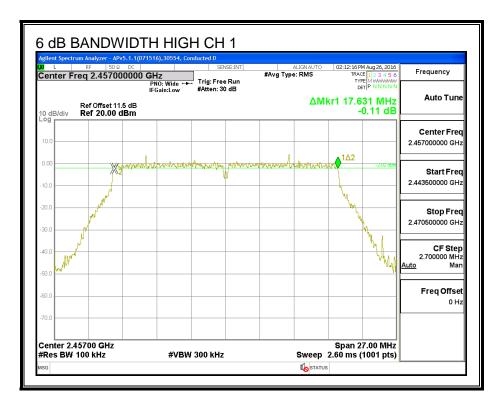
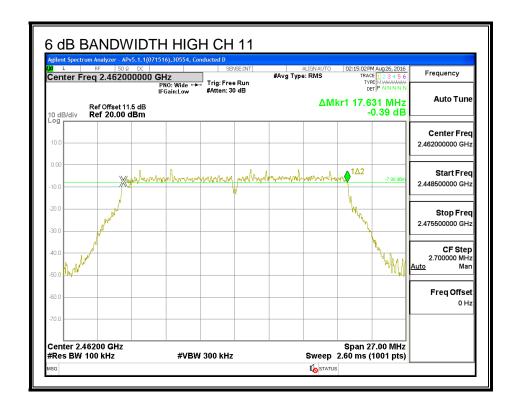
6 dB BANDWIDTH

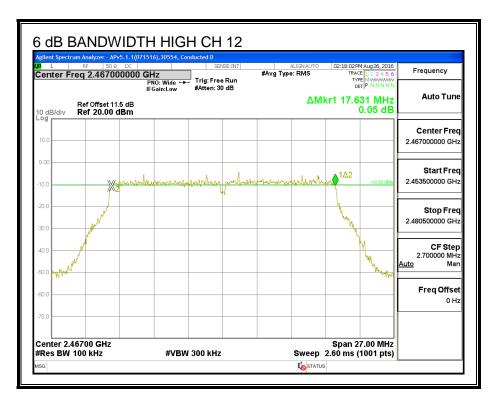


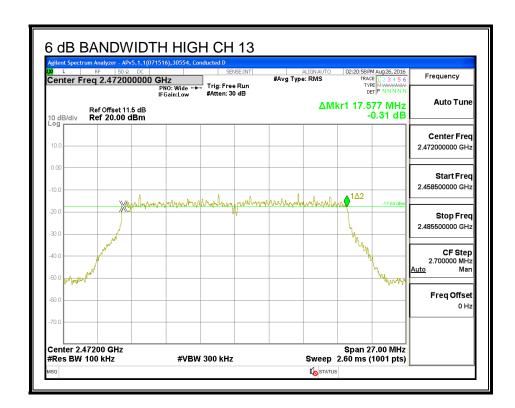












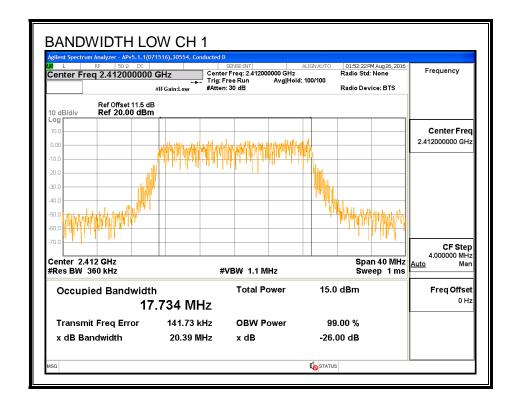
8.16.2. 99% BANDWIDTH

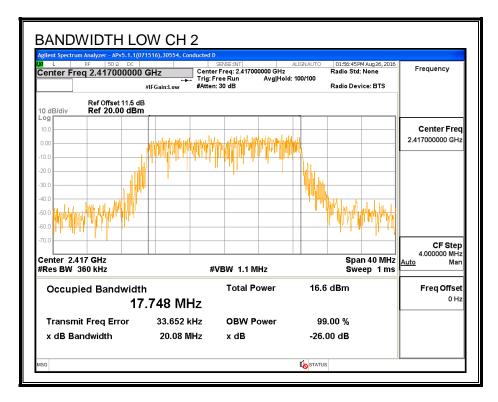
LIMITS

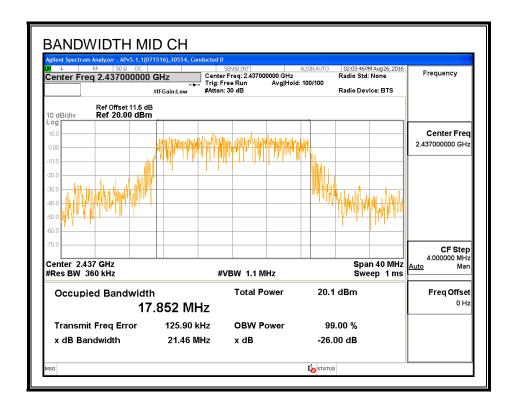
None; for reporting purposes only.

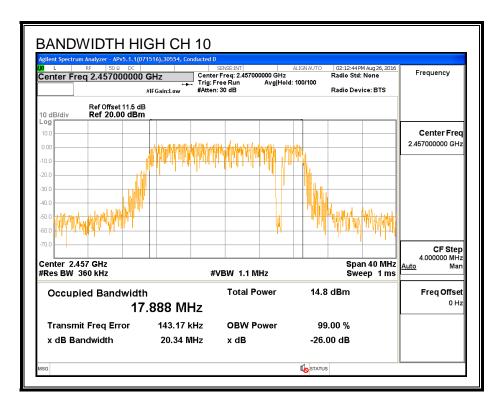
Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Low_1	2412	17.734
Low_2	2417	17.748
Mid_6	2437	17.852
High_10	2457	17.888
High_11	2462	17.744
High_12	2467	17.779
High_13	2472	17.793

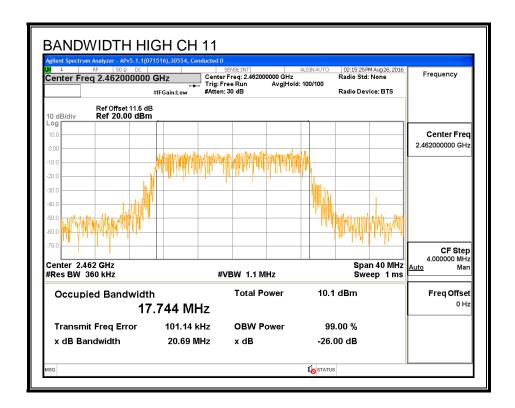
99% BANDWIDTH

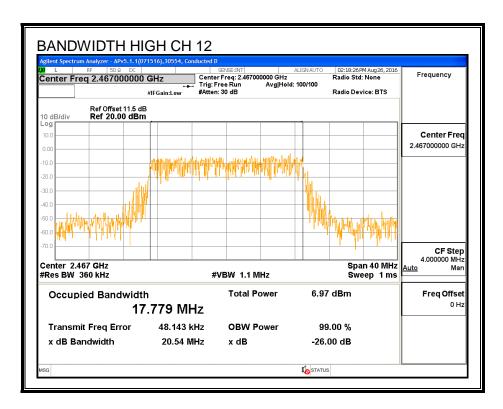


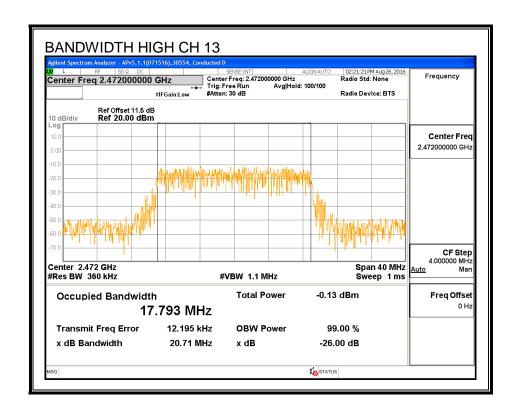












8.16.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

-			
Channel	Frequency	Power	
	(MHz)	(dBm)	
Low_1	2412	14.44	
Low_2	2417	16.43	
Mid_6	2437	16.40	
High_10	2457	15.38	
High_11	2462	9.91	
High_12	2467	6.89	
High_13	2472	-0.37	

8.16.4. OUTPUT POWER

LIMITS

FCC §15.247

IC RSS-247 (5.4) (4)

For systems using digital modulation in the 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

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

RESULTS

Limits

Channel	Frequency	Directional	FCC	IC	IC	Max
		Gain	Power	Power	EIRP	Power
			Limit	Limit	Limit	
	(MHz)	(dBi)	(dBm)	(dBm)	(dBm)	(dBm)
Low_1	2412	3.3	30.00	30	36	30.00
Low_2	2417	3.3	30.00	30	36	30.00
Mid_6	2437	3.3	30.00	30	36	30.00
High_10	2457	3.3	30.00	30	36	30.00
High_11	2462	3.3	30.00	30	36	30.00
High_12	2467	3.3	30.00	30	36	30.00
High_13	2472	3.3	30.00	30	36	30.00

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

Results

Channel	Frequency	Meas	Total	Power	Margin
		Power	Corr'd	Limit	
			Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low_1	2412	17.47	17.47	30.00	-12.53
Low_2	2417	19.51	19.51	30.00	-10.49
Mid_6	2437	19.46	19.46	30.00	-10.54
High_10	2457	18.39	18.39	30.00	-11.61
High_11	2462	13.01	13.01	30.00	-16.99
High_12	2467	9.97	9.97	30.00	-20.03
High_13	2472	3.02	3.02	30.00	-26.98

8.16.5. POWER SPECTRAL DENSITY

LIMITS

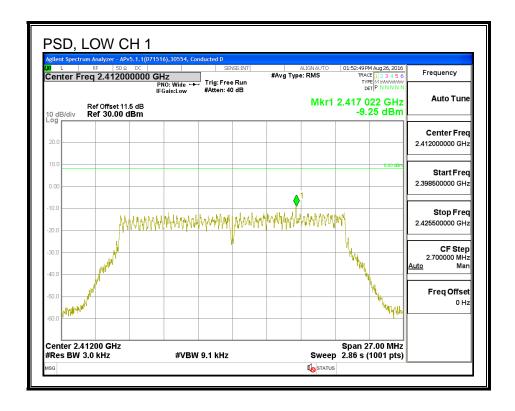
FCC §15.247

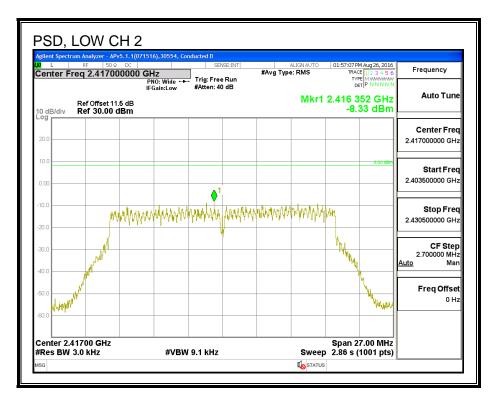
IC RSS-247 (5.2) (2)

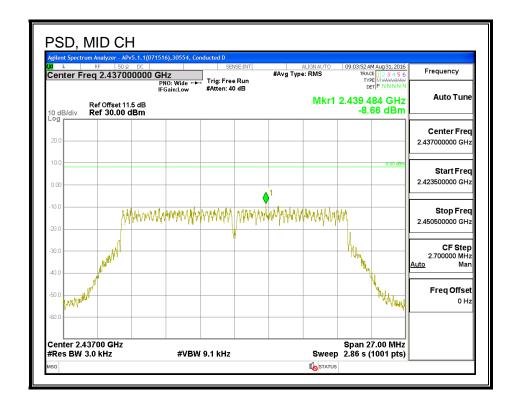
For digitally modulated systems, the power spectral density conducted form the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 KHz band during any time interval of continuous transmissions.

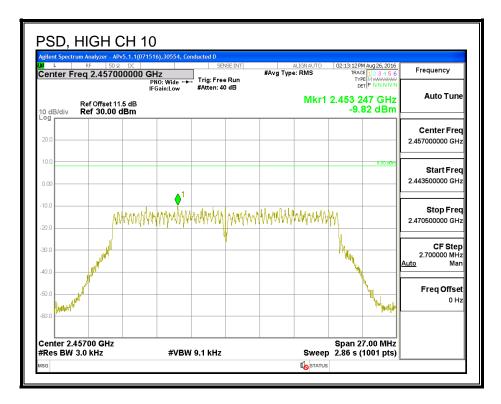
Duty C	ycle CF (dB)	0.00	.00 Included in Calculations of Corr'd PSI			of Corr'd PSD
PSD Resu	PSD Results					
Channel	Frequency	Chain 0	Total	Limit	Margin	
		Meas	Corr'd			
	(MHz)	(dBm)	PSD			
			(dBm)	(dBm)	(dB)	
Low_1	2412	-9.25	-9.25	8.0	-17.3	
Low_2	2417	-8.33	-8.33	8.0	-16.3	
Mid_6	2437	-8.66	-8.66	8.0	-16.7	
High_10	2457	-9.82	-9.82	8.0	-17.8	
High_11	2462	-15.73	-15.73	8.0	-23.7	
High_12	2467	-17.79	-17.79	8.0	-25.8	
High_13	2472	-19.64	-19.64	8.0	-27.6	

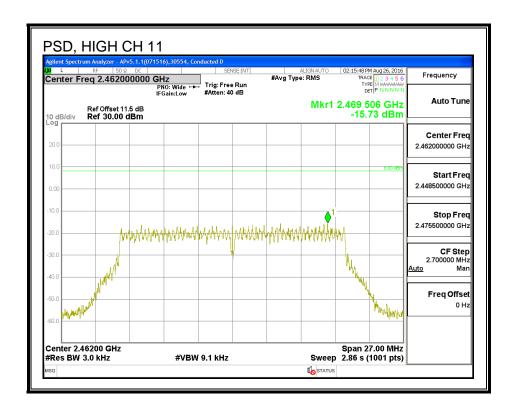
PSD

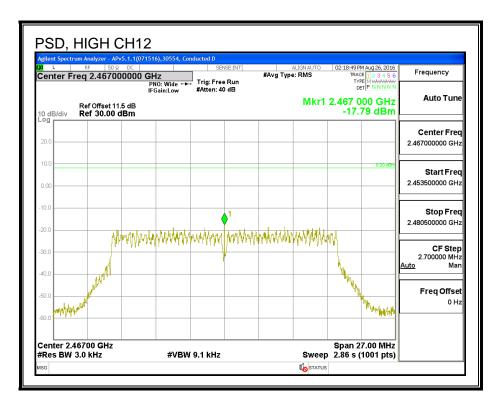


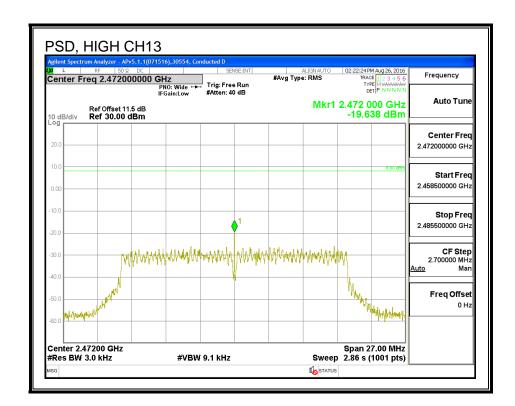












8.16.6. OUT-OF-BAND EMISSIONS

LIMITS

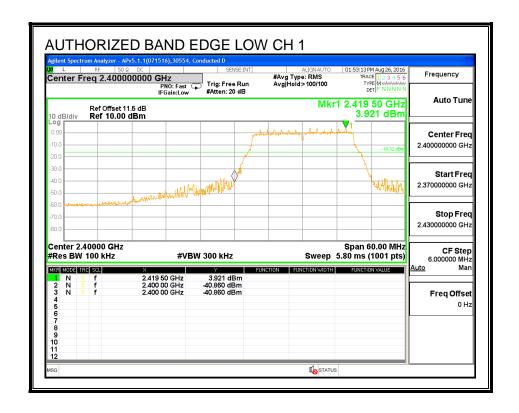
FCC §15.247 (d)

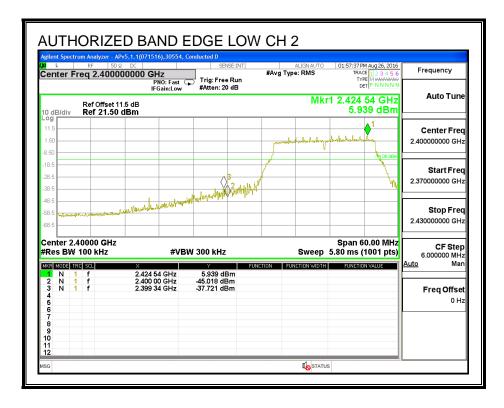
IC RSS-247 (5.5)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

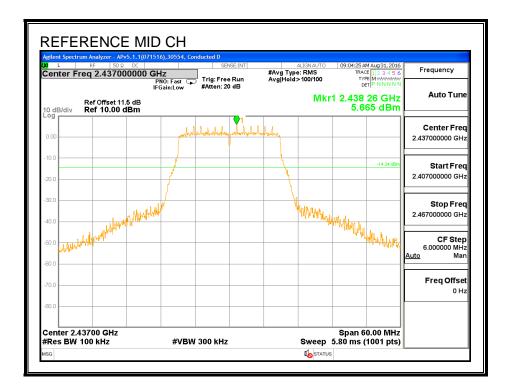
RESULTS

LOW CHANNEL BANDEDGE

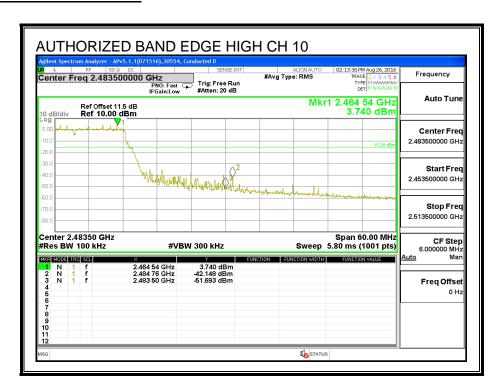




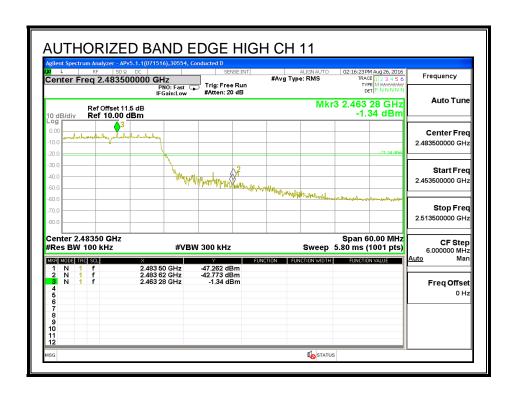
MID CHANNEL REFERENCE

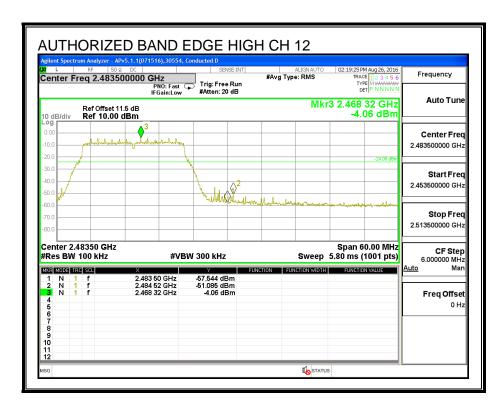


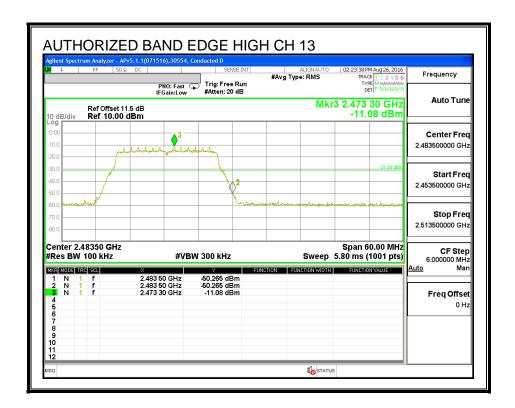
HIGH CHANNEL BANDEDGE



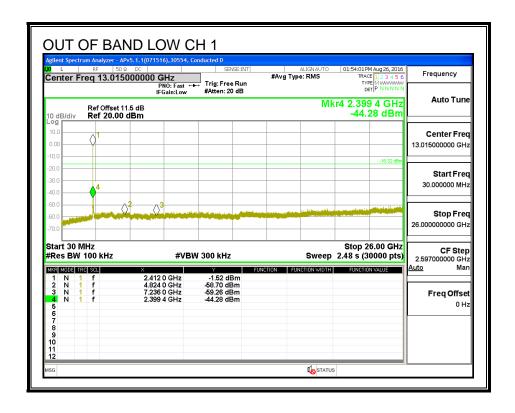
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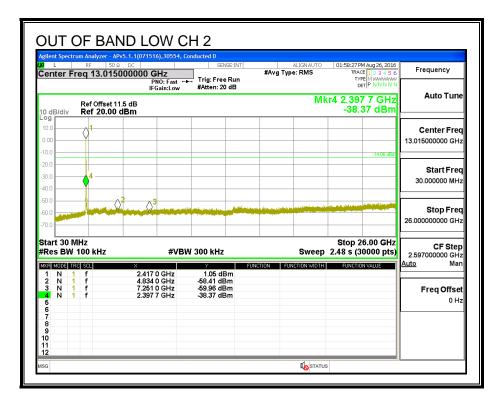


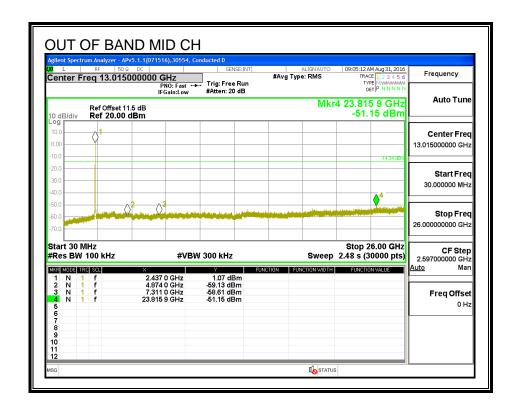


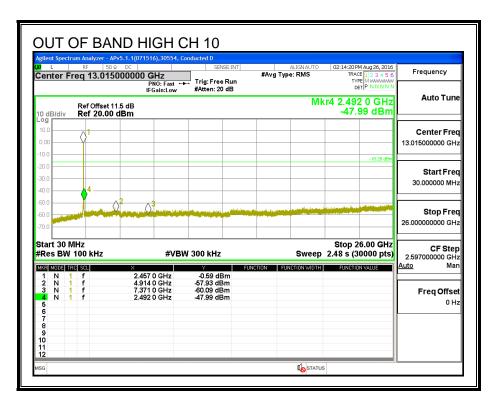


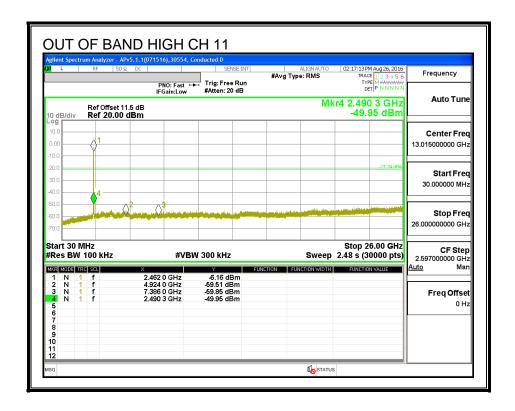
OUT-OF-BAND EMISSIONS

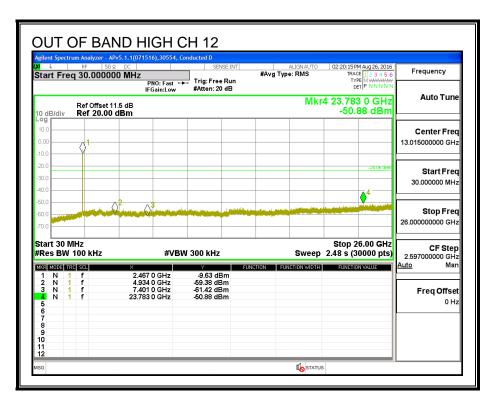


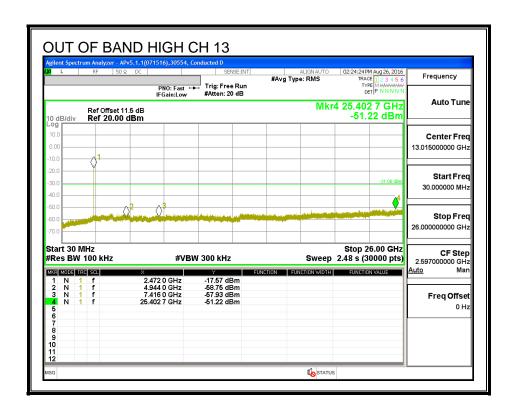












802.11n HT20 SISO MODE IN THE 2.4 GHZ BAND, CHAIN 2 8.17.

8.17.1. 6 dB BANDWIDTH

LIMITS

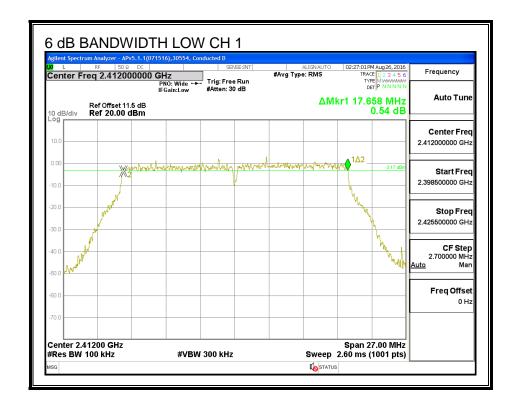
FCC §15.247 (a) (2)

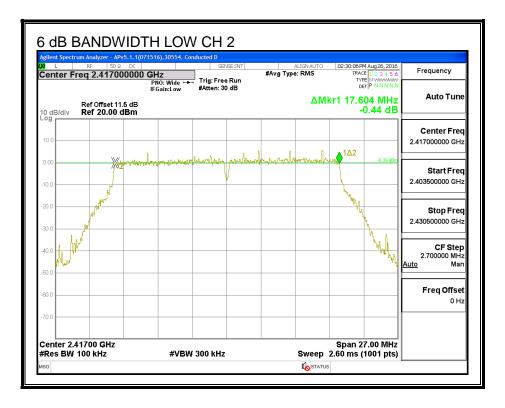
IC RSS-247 (5.2) (1)

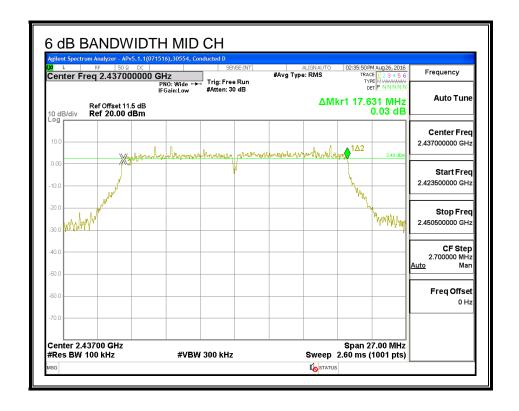
The minimum 6 dB bandwidth shall be at least 500 kHz.

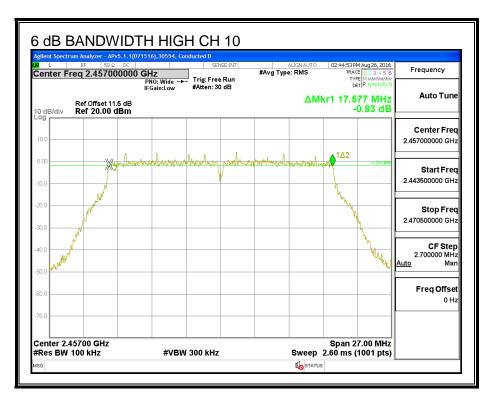
Channel	Frequency	6 dB Bandwidth	Minimum Limit
	(MHz)	(MHz)	(MHz)
Low_1	2412	17.658	0.5
Low_2	2417	17.604	0.5
Mid_6	2437	17.631	0.5
High_10	2457	17.577	0.5
High_11	2462	17.631	0.5
High_12	2467	17.631	0.5
High_13	2472	17.604	0.5

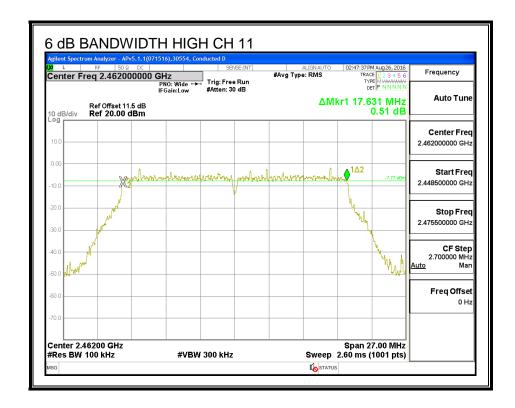
6 dB BANDWIDTH

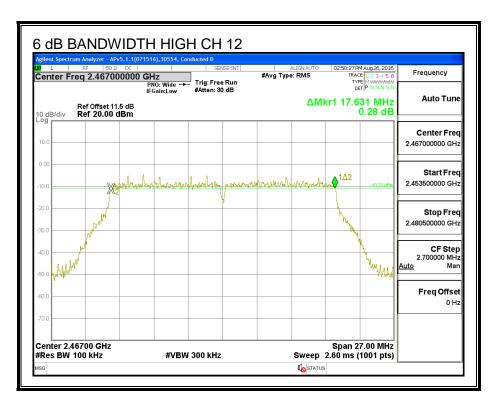














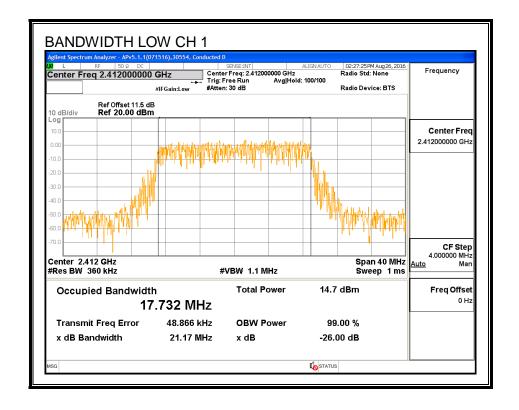
8.17.2. 99% BANDWIDTH

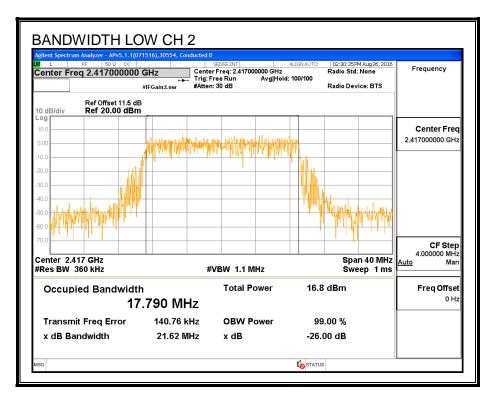
LIMITS

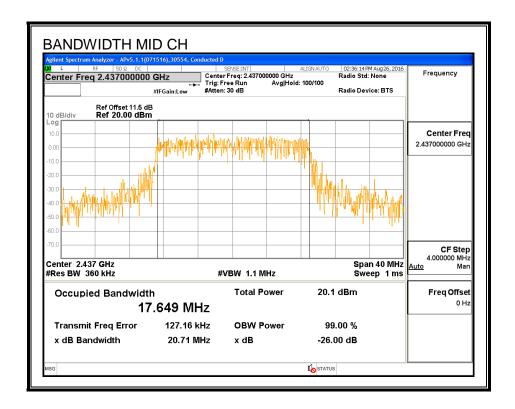
None; for reporting purposes only.

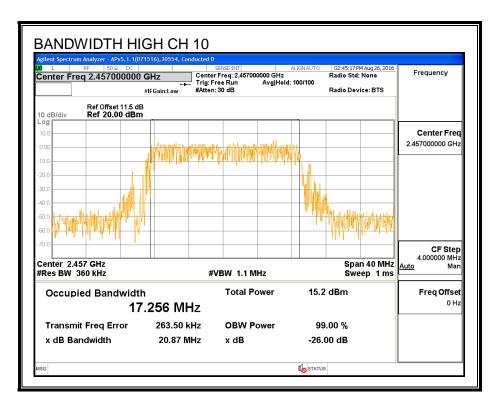
Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Low_1	2412	17.732
Low_2	2417	17.790
Mid_6	2437	17.649
High_10	2457	17.256
High_11	2462	17.685
High_12	2467	17.687
High_13	2472	17.725

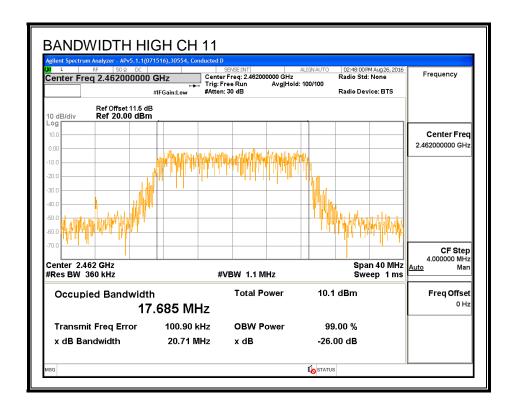
99% BANDWIDTH

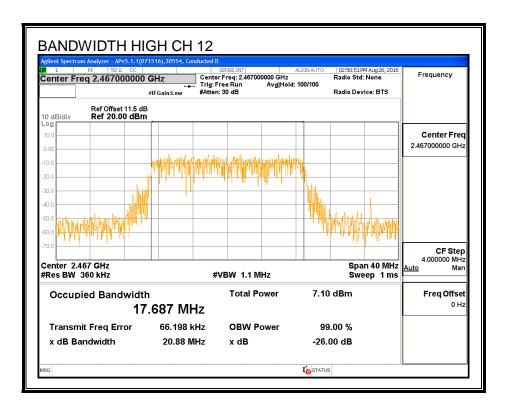


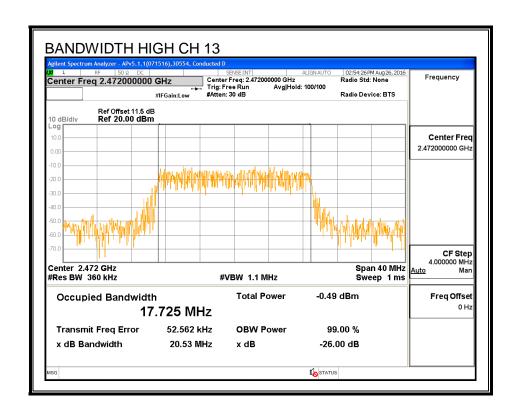












8.17.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency	Power
	(MHz)	(dBm)
Low_1	2412	14.47
Low_2	2417	16.50
Mid_6	2437	16.46
High_10	2457	15.48
High_11	2462	9.98
High_12	2467	6.93
High_13	2472	-0.32

8.17.4. OUTPUT POWER

LIMITS

FCC §15.247

IC RSS-247 (5.4) (4)

For systems using digital modulation in the 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

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

RESULTS

Limits

Channel	Frequency	Directional	FCC	IC	IC	Max
		Gain	Power	Power	EIRP	Power
			Limit	Limit	Limit	
	(MHz)	(dBi)	(dBm)	(dBm)	(dBm)	(dBm)
Low_1	2412	2.1	30.00	30	36	30.00
Low_2	2417	2.1	30.00	30	36	30.00
Mid_6	2437	2.1	30.00	30	36	30.00
High_10	2457	2.1	30.00	30	36	30.00
High_11	2462	2.1	30.00	30	36	30.00
High_12	2467	2.1	30.00	30	36	30.00
High_13	2472	2.1	30.00	30	36	30.00

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

Results

Channel	Frequency	Meas	Total	Power	Margin
		Power	Corr'd	Limit	
			Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low_1	2412	17.56	17.56	30.00	-12.44
Low_2	2417	19.69	19.69	30.00	-10.31
Mid_6	2437	19.61	19.61	30.00	-10.39
High_10	2457	18.53	18.53	30.00	-11.47
High_11	2462	13.21	13.21	30.00	-16.79
High_12	2467	10.13	10.13	30.00	-19.87
High_13	2472	3.14	3.14	30.00	-26.86

8.17.5. POWER SPECTRAL DENSITY

LIMITS

FCC §15.247

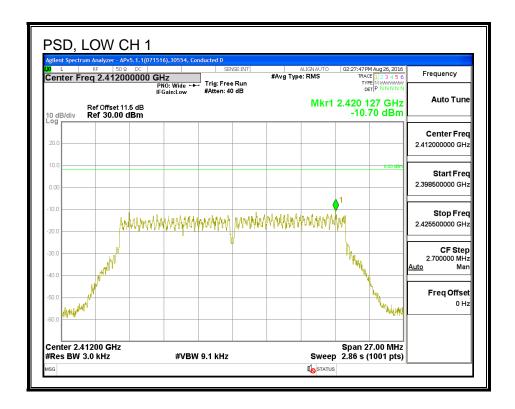
IC RSS-247 (5.2) (2)

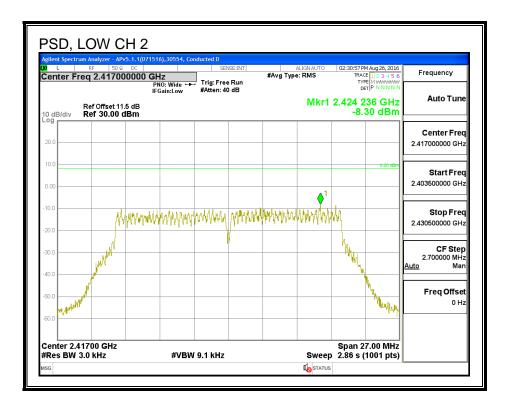
For digitally modulated systems, the power spectral density conducted form the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 KHz band during any time interval of continuous transmissions.

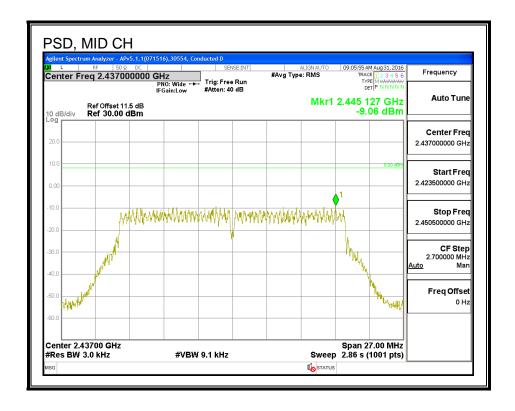
RESULTS

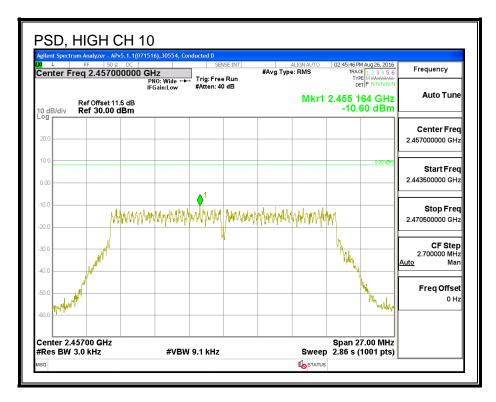
Duty C	ycle CF (dB)	0.00	Included in Calculations of Corr'd PSI			of Corr'd PSD
PSD Results						
Channel	Frequency	Chain 0	Total	Limit	Margin	
		Meas	Corr'd			
	(MHz)	(dBm)	PSD			
			(dBm)	(dBm)	(dB)	
Low_1	2412	-10.70	-10.70	8.0	-18.7	
Low_2	2417	-8.30	-8.30	8.0	-16.3	
Mid_6	2437	-9.06	-9.06	8.0	-17.1	
High_10	2457	-10.60	-10.60	8.0	-18.6	
High_11	2462	-15.56	-15.56	8.0	-23.6	
High_12	2467	-18.66	-18.66	8.0	-26.7	
High 13	2472	-26.57	-26.57	8.0	-34.6	

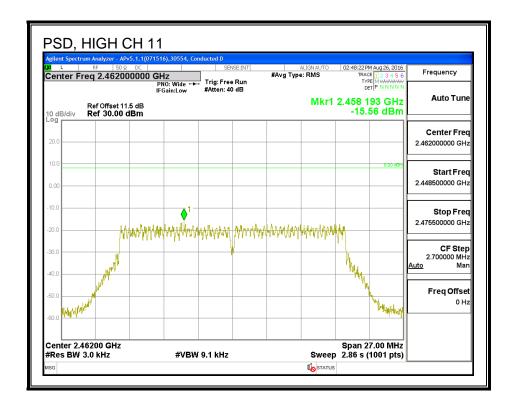
PSD

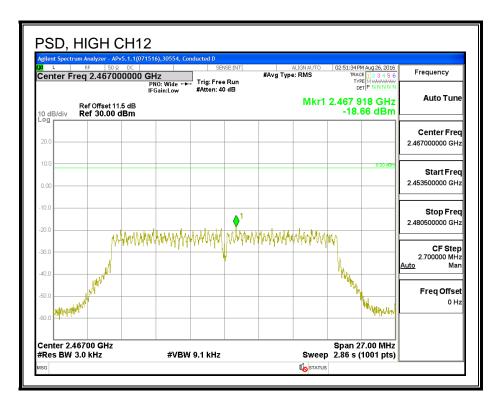


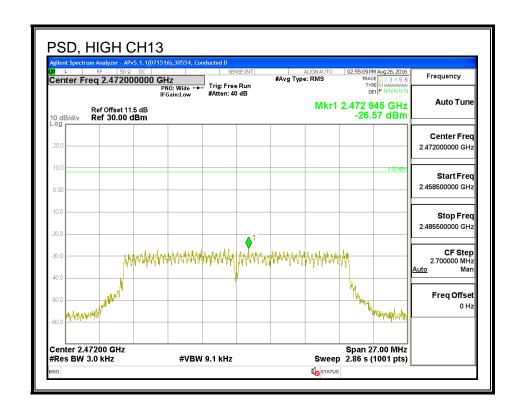












8.17.6. OUT-OF-BAND EMISSIONS

LIMITS

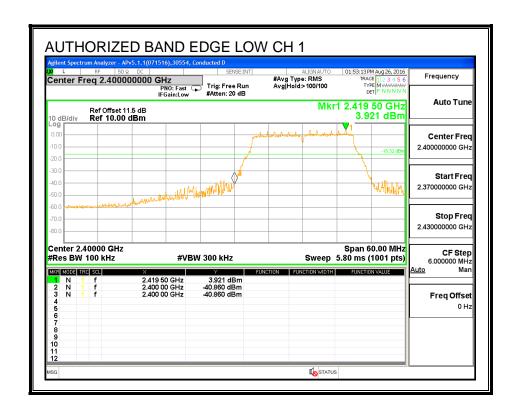
FCC §15.247 (d)

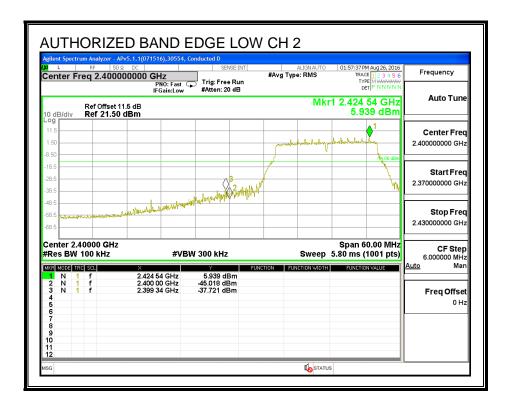
IC RSS-247 (5.5)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

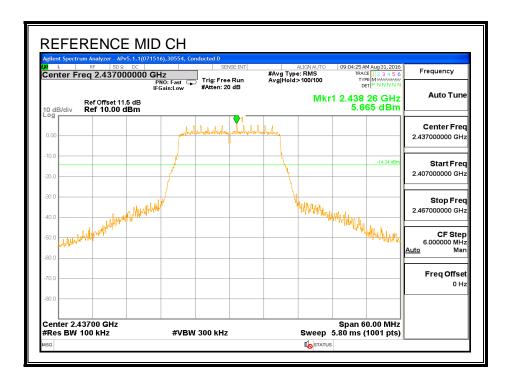
RESULTS

LOW CHANNEL BANDEDGE

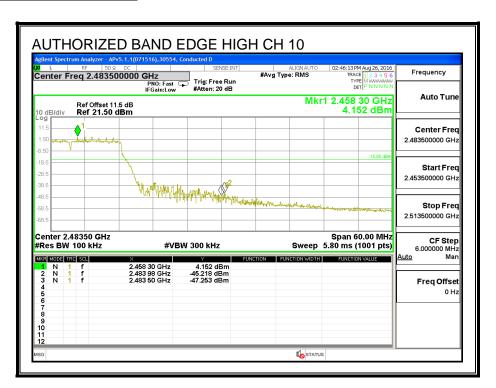


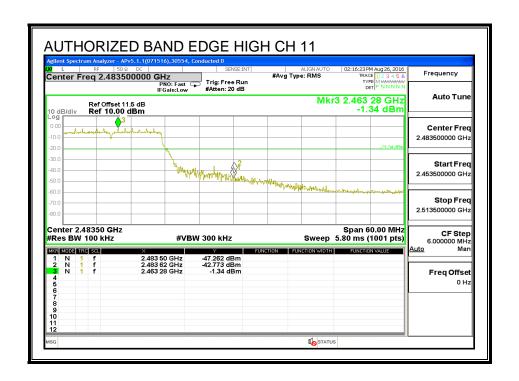


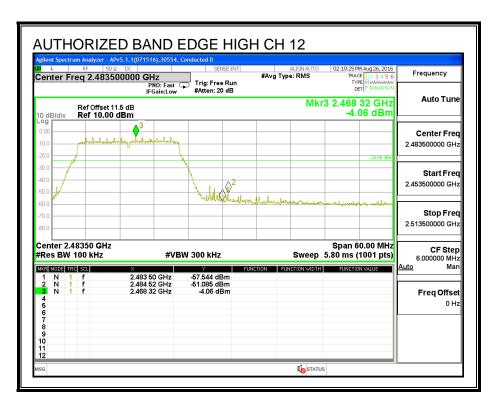
MID CHANNEL REFERENCE

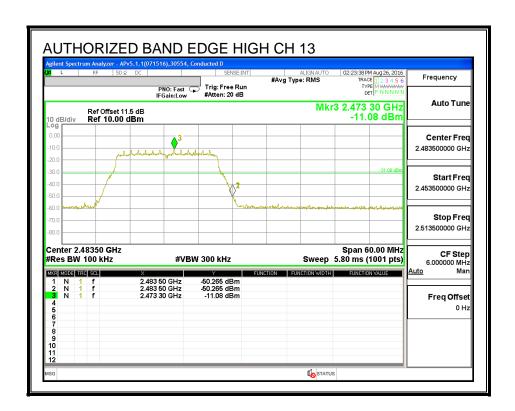


HIGH CHANNEL BANDEDGE

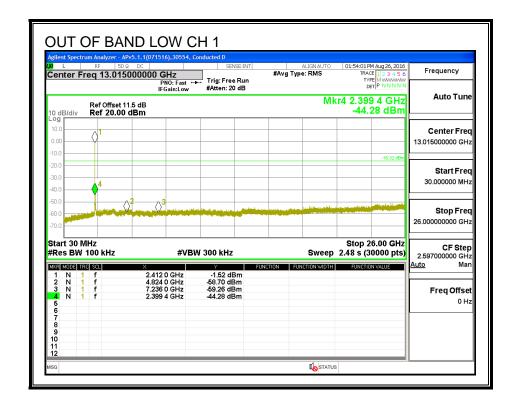


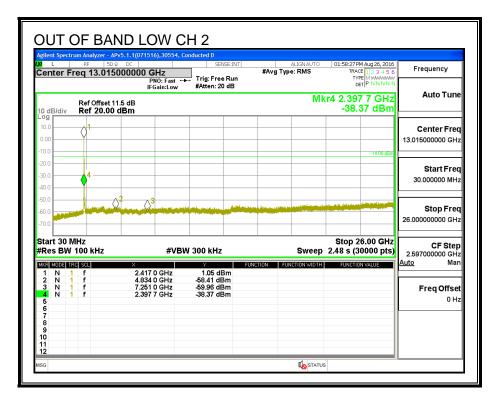


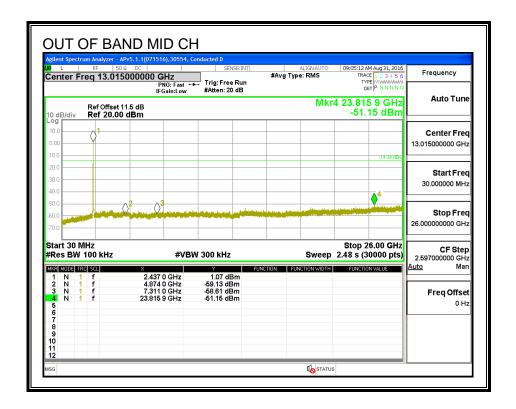


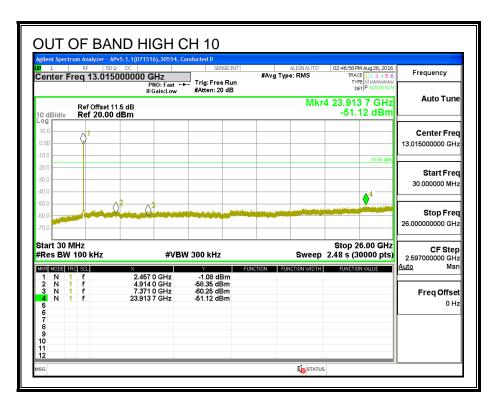


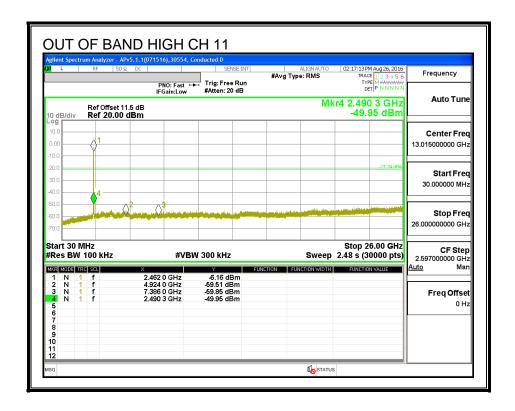
OUT-OF-BAND EMISSIONS

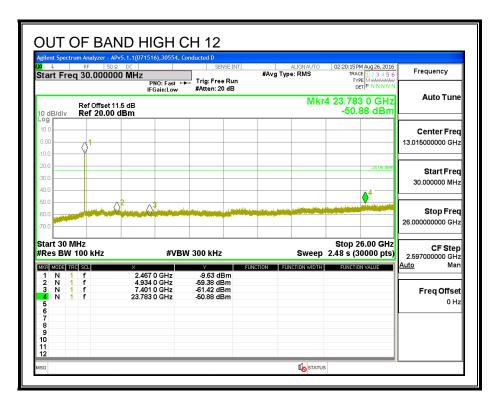


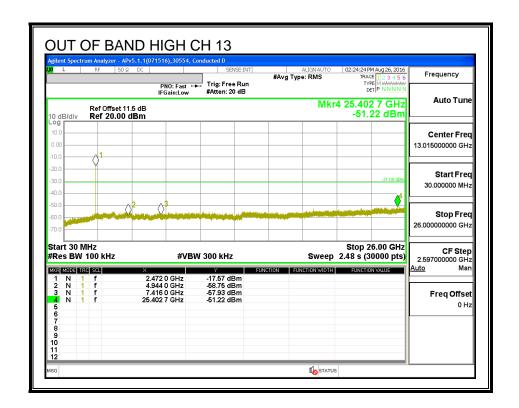












802.11n 2Tx CDD MODE IN THE 2.4 GHZ BAND, CHAIN 0+1 8.18.

8.18.1. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

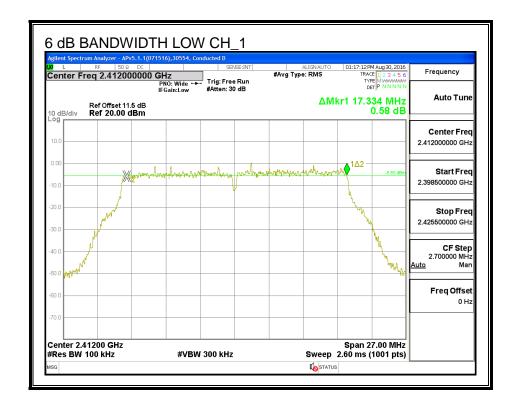
IC RSS-247 (5.2) (1)

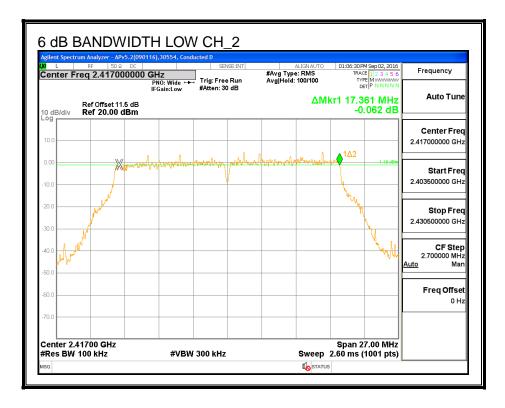
The minimum 6 dB bandwidth shall be at least 500 kHz.

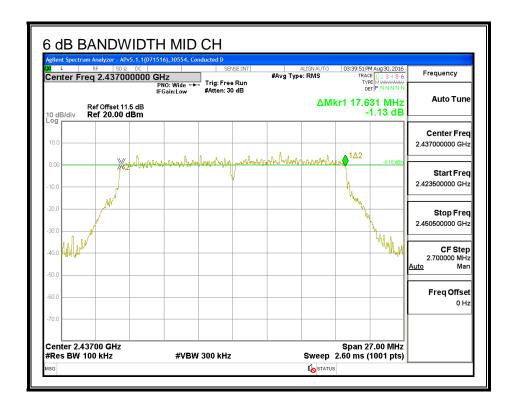
RESULTS

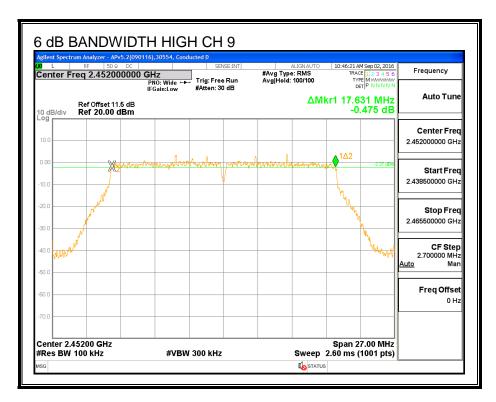
Channel	Frequency	6 dB BW	6 dB BW	Minimum
		Chain 0	Chain 1	Limit
	(MHz)	(MHz)	(MHz)	(MHz)
Low_1	2412	17.334	17.658	0.5
Low_2	2417	17.361	16.100	0.5
Mid	2437	17.631	17.577	0.5
High_9	2452	17.631	17.631	0.5
High_10	2457	17.658	17.631	0.5
High_11	2462	17.631	17.631	0.5
High_12	2467	17.577	17.604	0.5

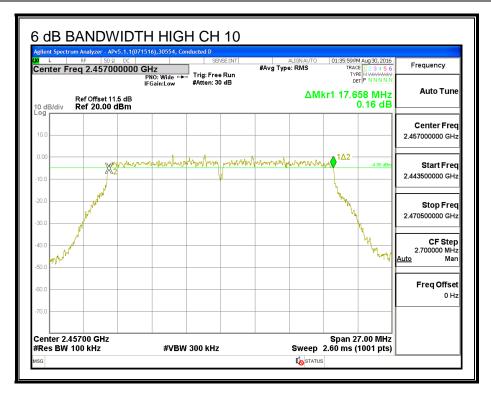
6 dB BANDWIDTH, Chain 0

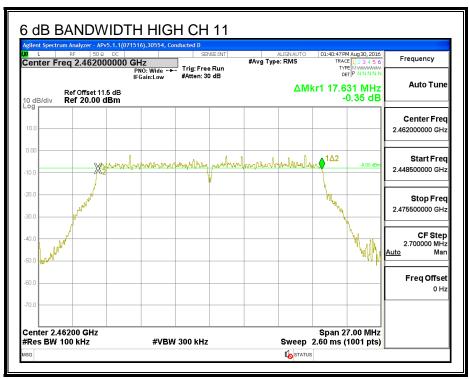


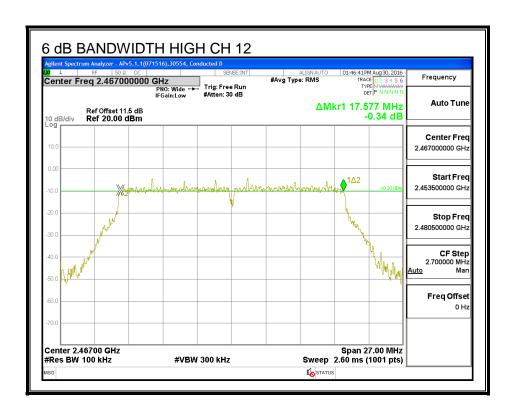




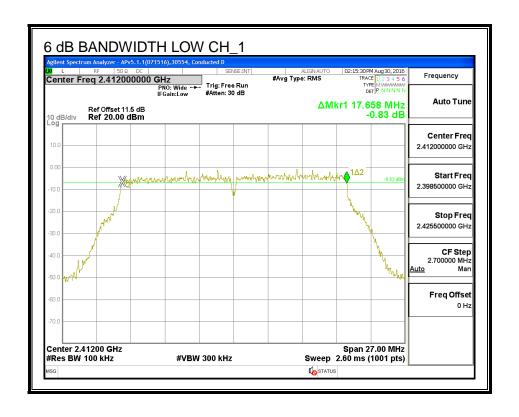








6 dB BANDWIDTH, Chain 1



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