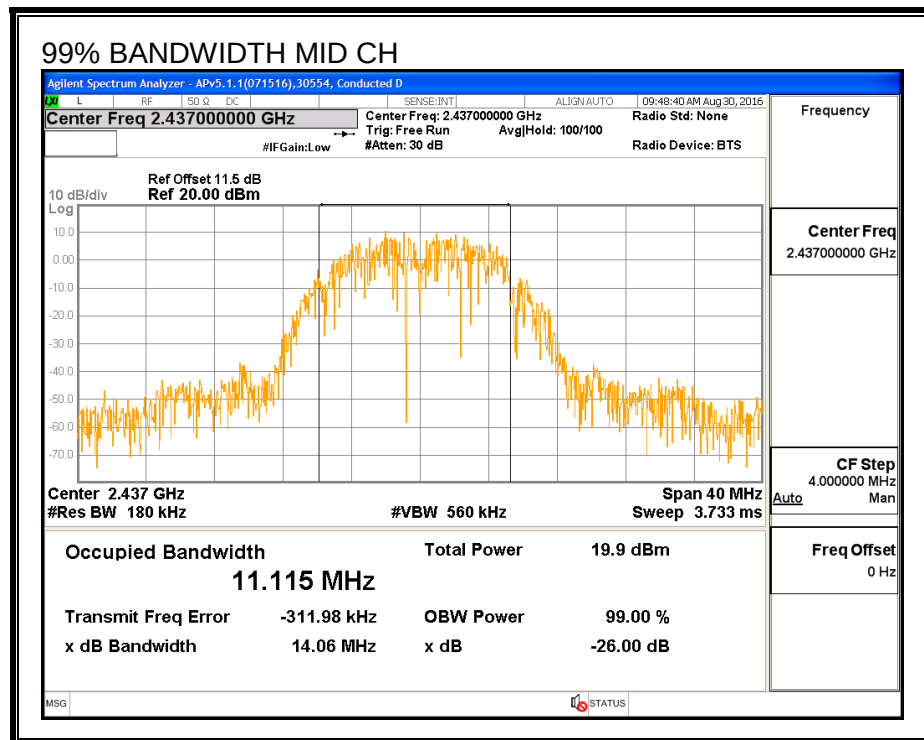
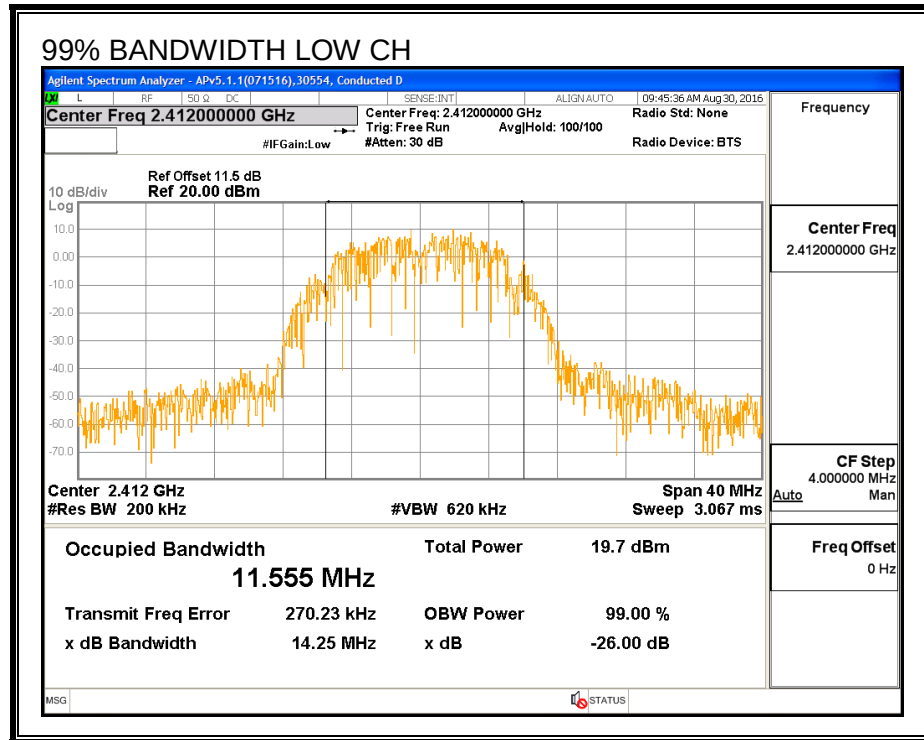
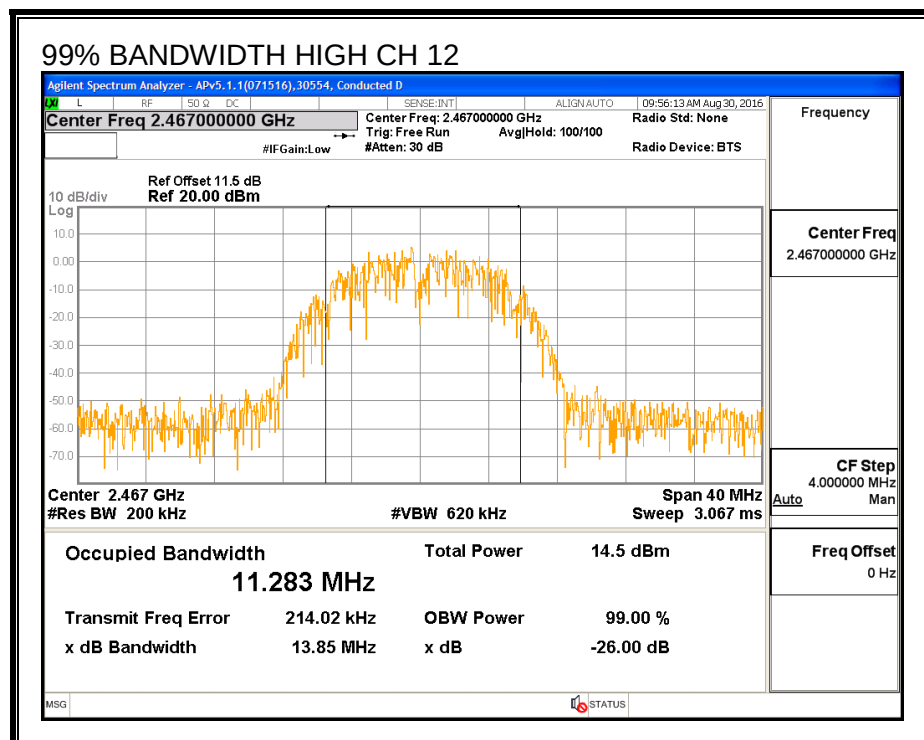
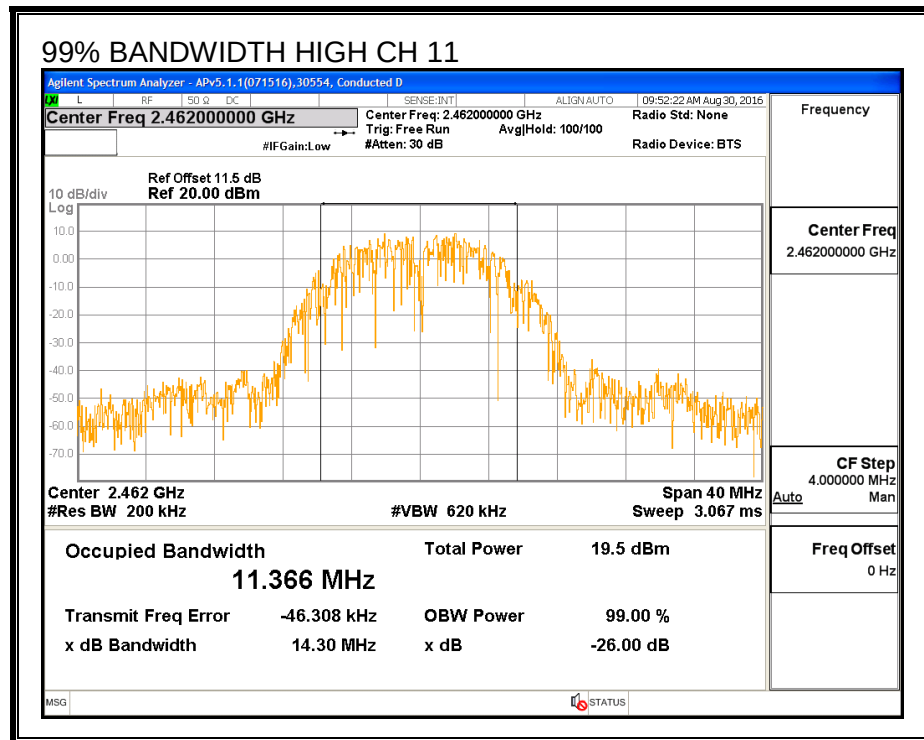
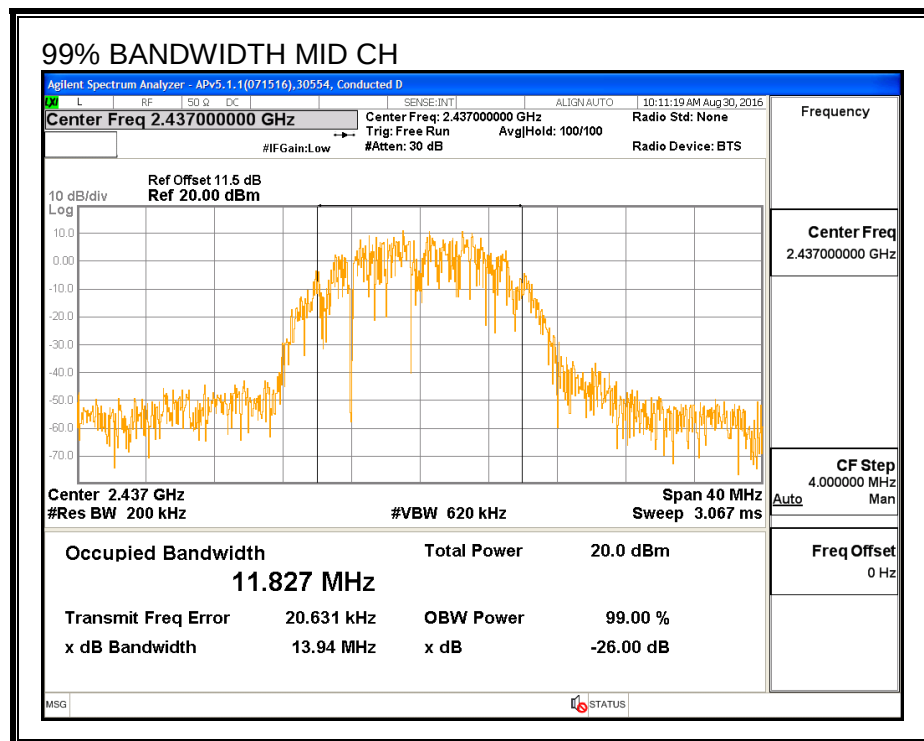
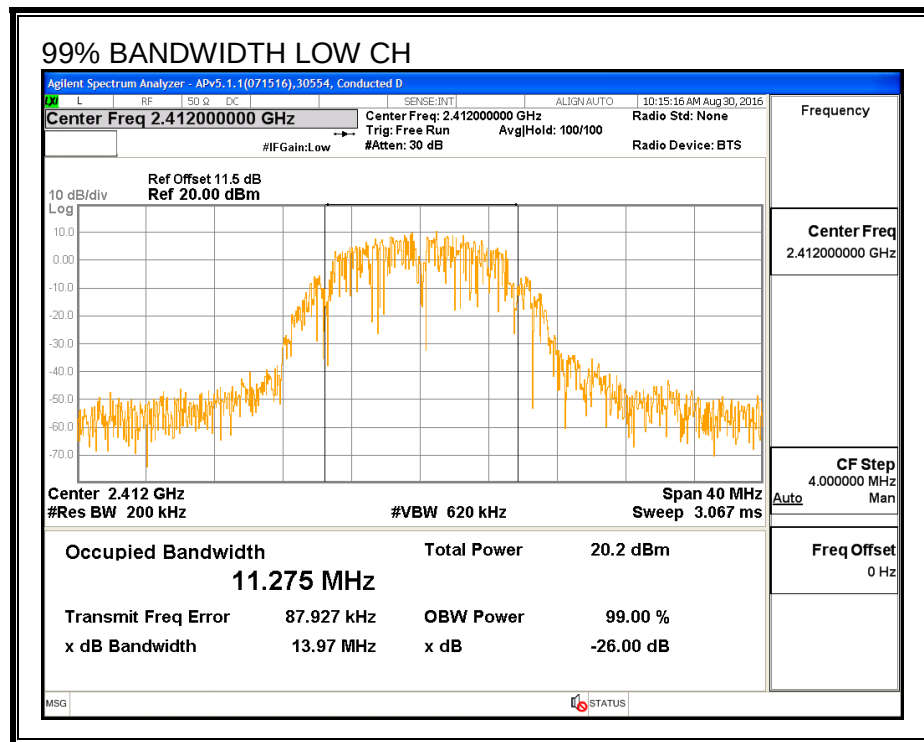


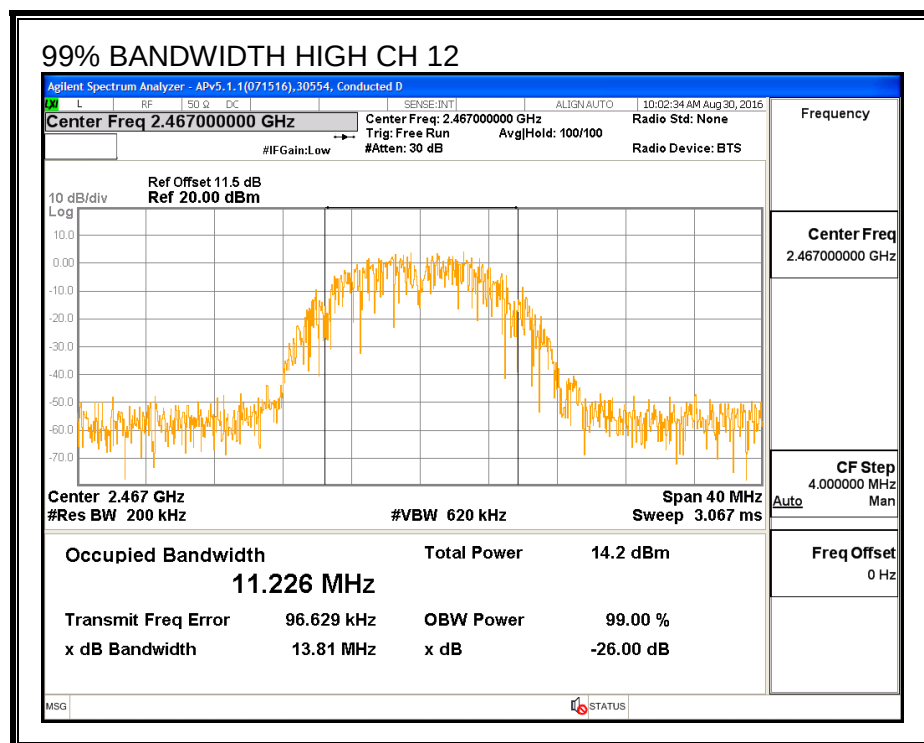
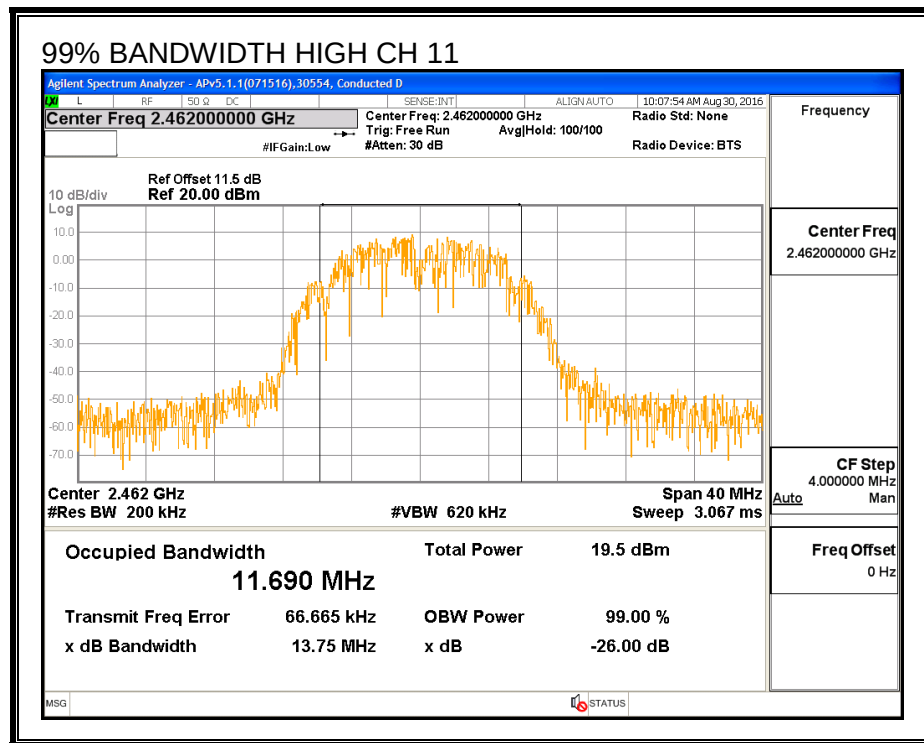
99% BANDWIDTH, Chain 0





99% BANDWIDTH, Chain 2





8.5.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	Chain 0 Power (dBm)	Chain 2 Power (dBm)	Total Power (dBm)
Low	2412	16.40	16.41	19.42
Mid	2437	16.38	16.48	19.44
High_11	2462	14.91	14.98	17.96
High_12	2467	12.95	12.92	15.95

8.5.4. OUTPUT POWER

LIMITS

FCC §15.247

IC RSS-247 (5.4) (4)

For systems using digital modulation in the 902–928 MHz, 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

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

Chain 0 Antenna Gain (dBi)	Chain 2 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
2.10	2.10	2.10

RESULTS

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
Low	2412	2.10	30.00	30	36	30.00
Mid	2437	2.10	30.00	30	36	30.00
High_11	2462	2.10	30.00	30	36	30.00
High_12	2467	2.10	30.00	30	36	30.00

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

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margi (dB)
Low	2412	19.42	19.45	22.45	30.00	-7.55
Mid	2437	19.40	19.58	22.50	30.00	-7.50
High_11	2462	18.08	18.12	21.11	30.00	-8.89
High_12	2467	16.16	16.11	19.15	30.00	-10.85

8.5.5. POWER SPECTRAL DENSITY

LIMITS

FCC §15.247

IC RSS-247 (5.2) (2)

For digitally modulated systems, the power spectral density conducted from 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.

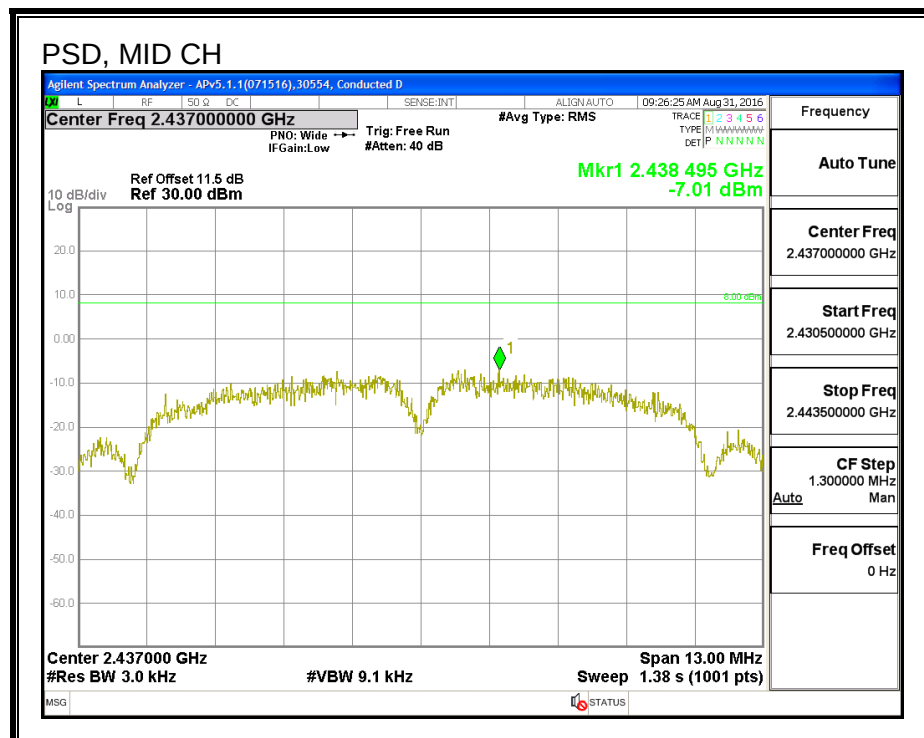
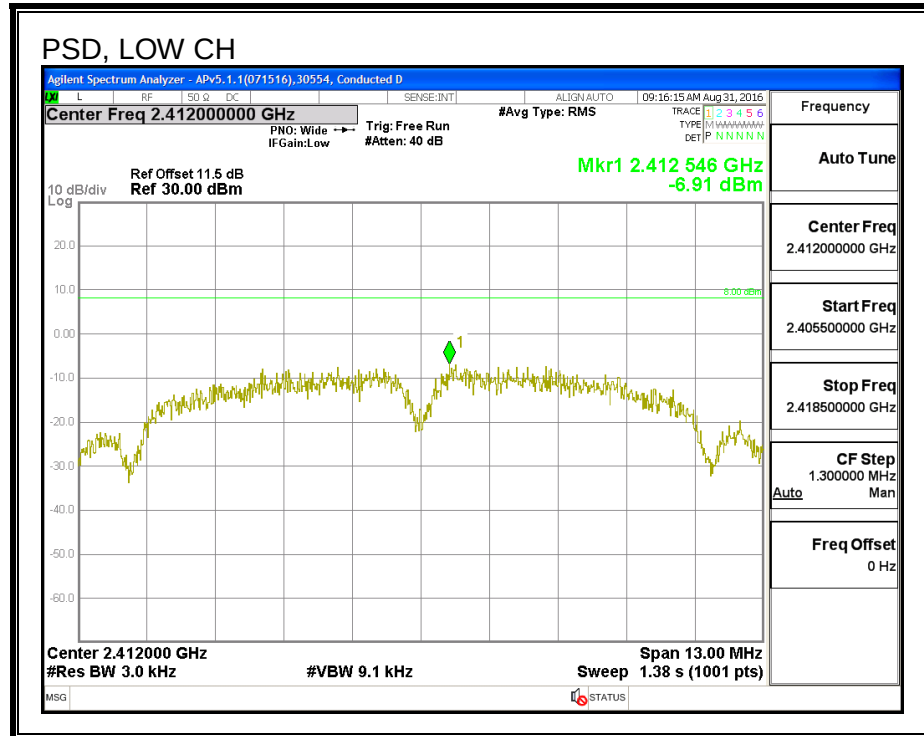
RESULTS

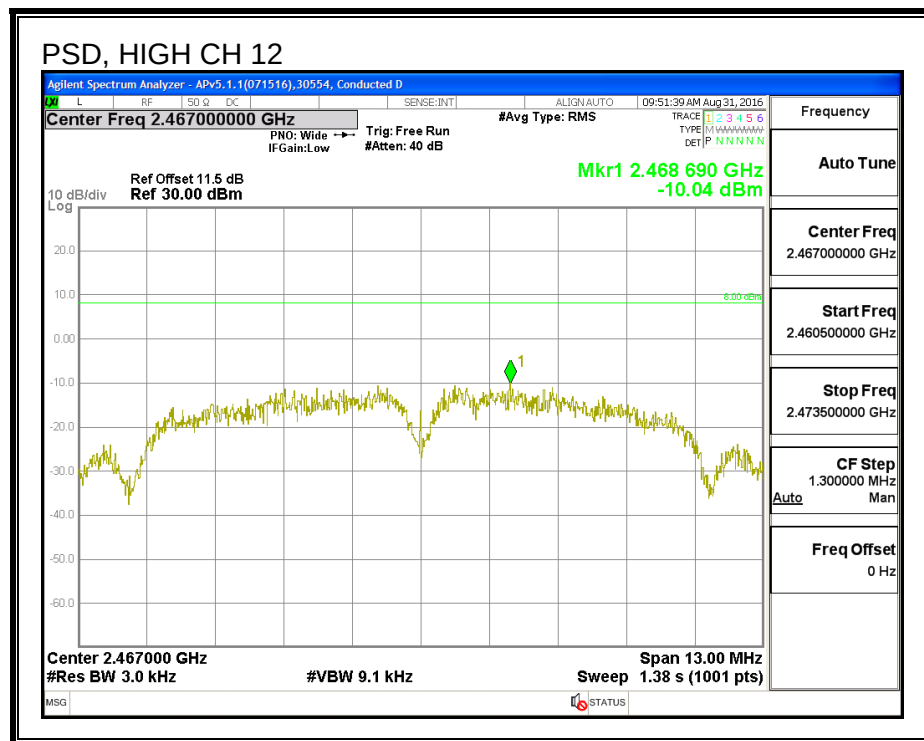
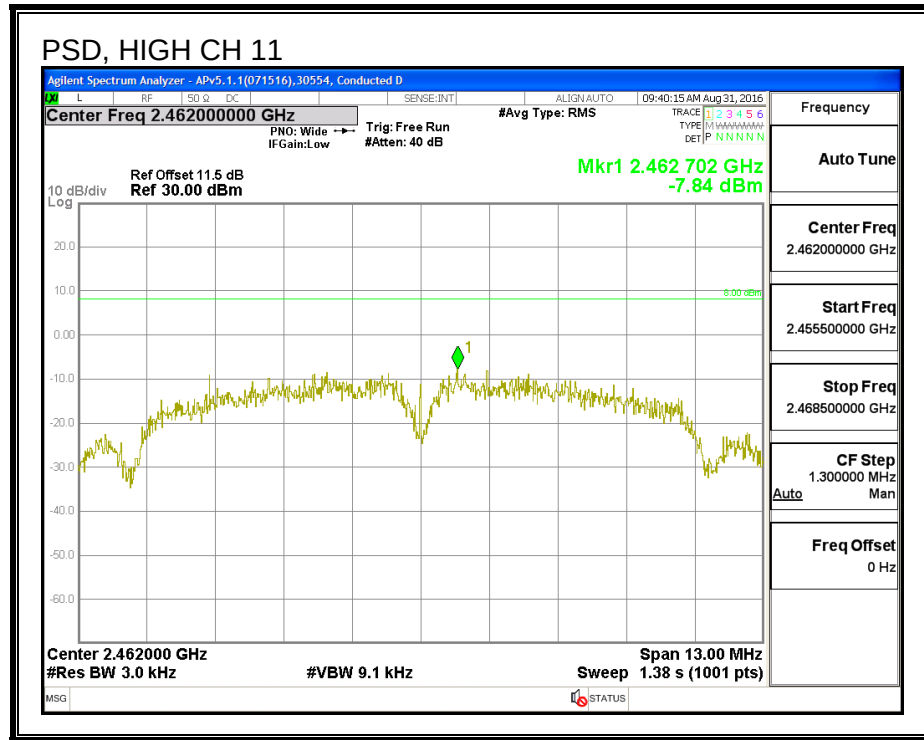
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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PSD Results

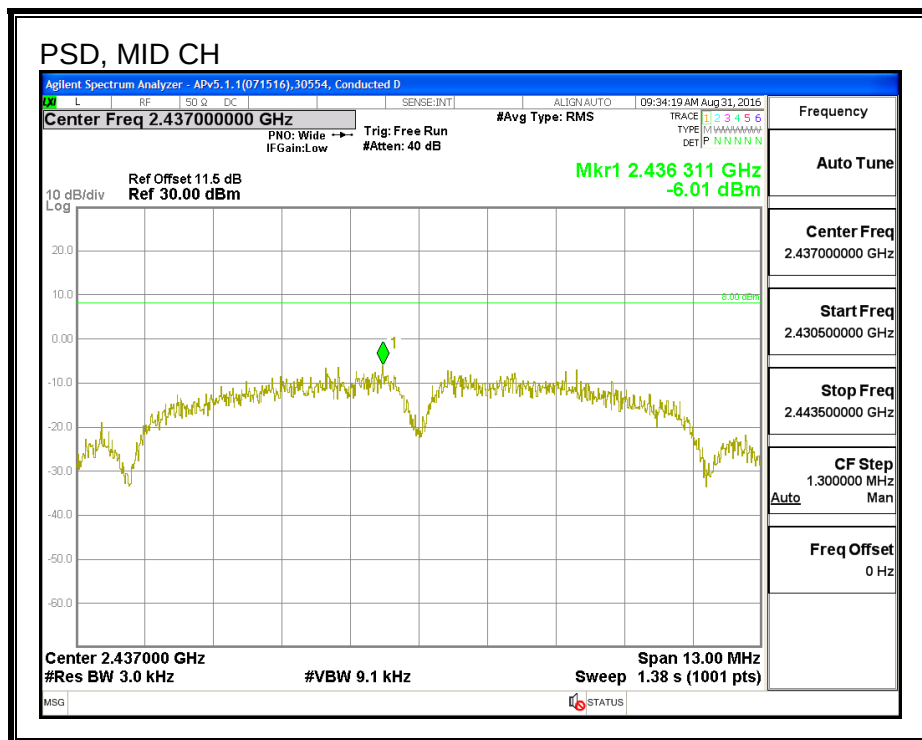
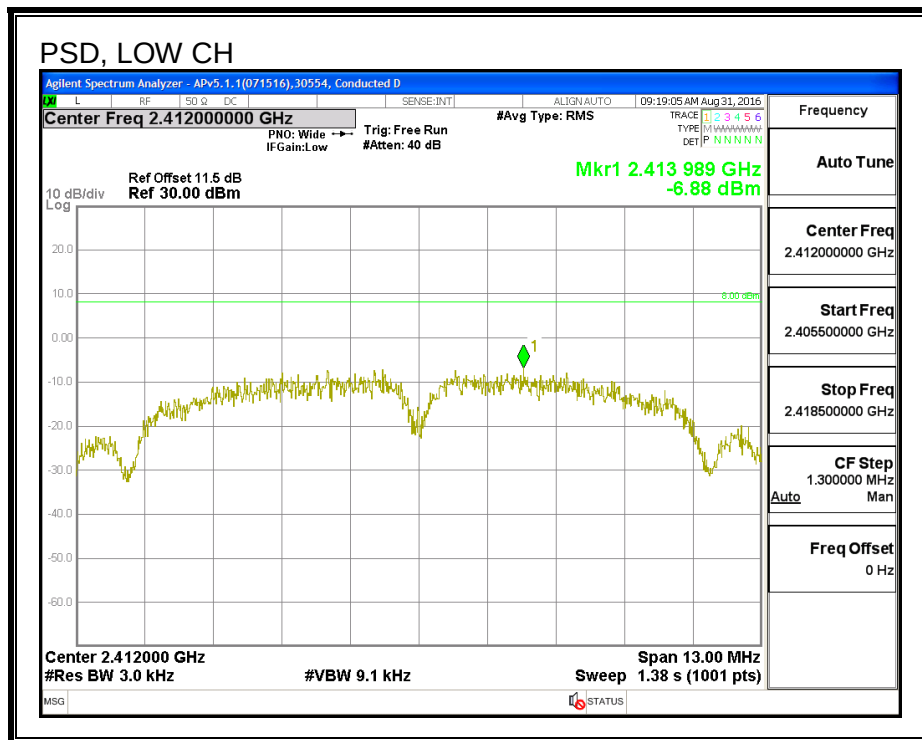
Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Chain 2 Meas (dBm)	Total Corr'd PSD (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-6.91	-6.88	-3.88	8.0	-11.9
Mid	2437	-7.01	-6.01	-3.47	8.0	-11.5
High_11	2462	-7.84	-7.73	-4.77	8.0	-12.8
High_12	2467	-10.04	-10.09	-7.05	8.0	-15.1

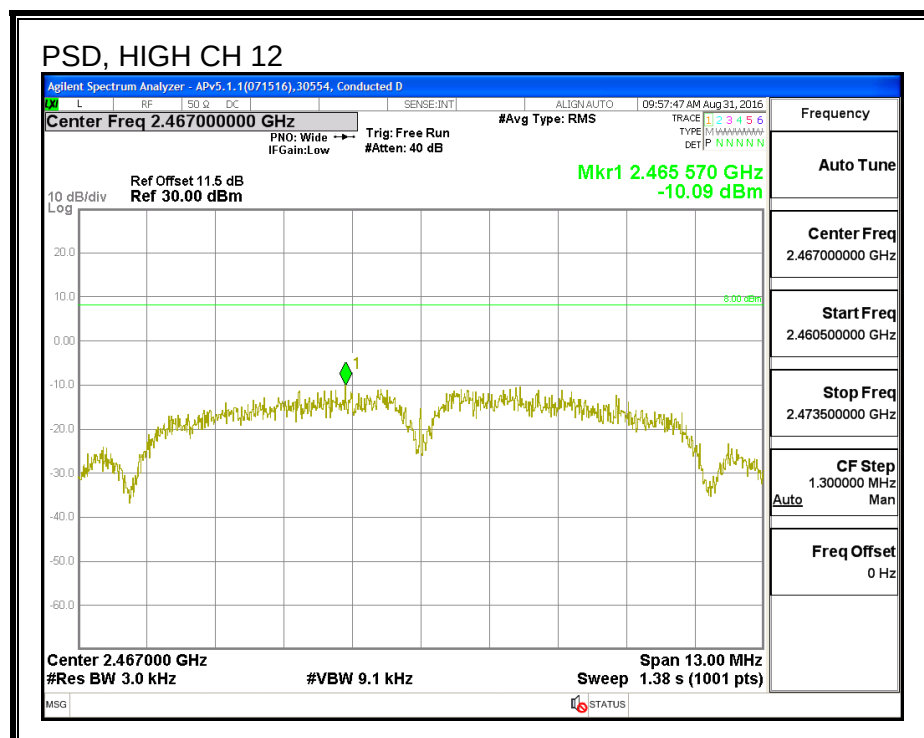
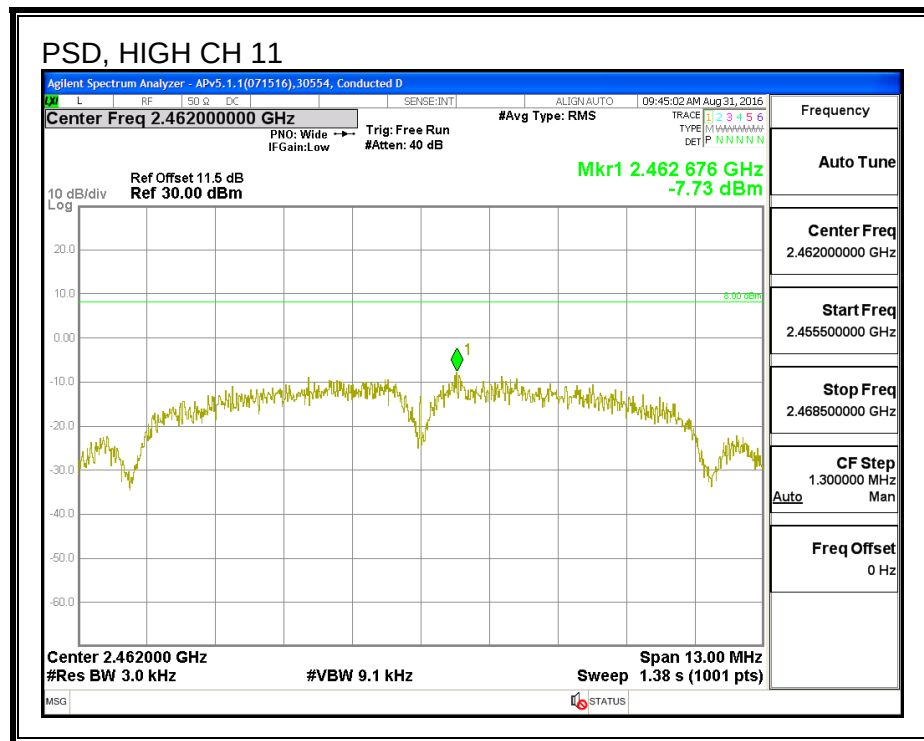
PSD, Chain 0





PSD, Chain 2





8.5.6. OUT-OF-BAND EMISSIONS

LIMITS

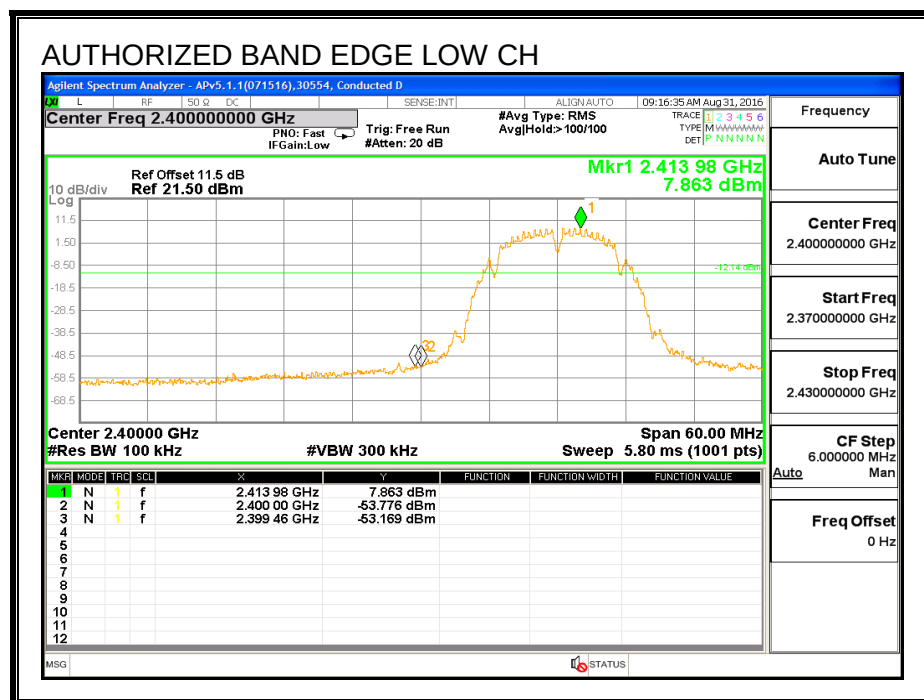
FCC §15.247 (d)

IC RSS-247 (5.5)

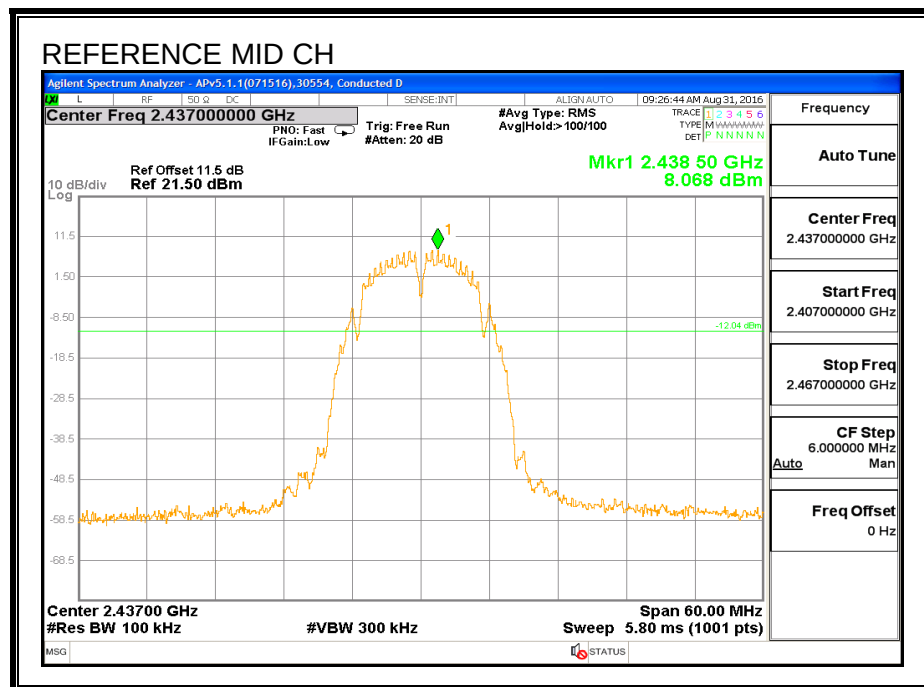
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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

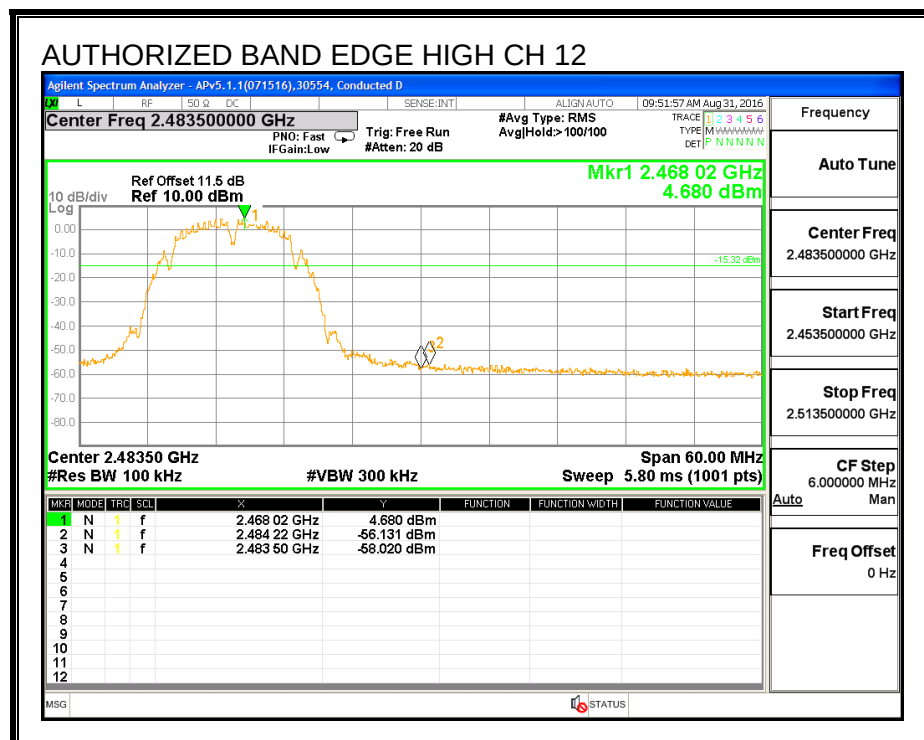
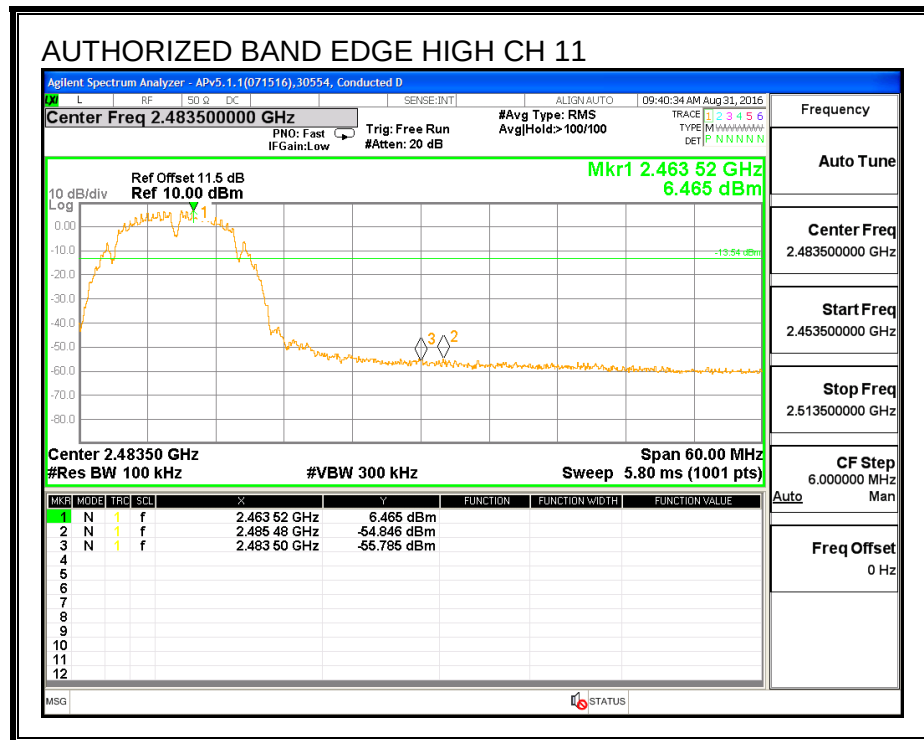
LOW CHANNEL BANDEDGE, Chain 0



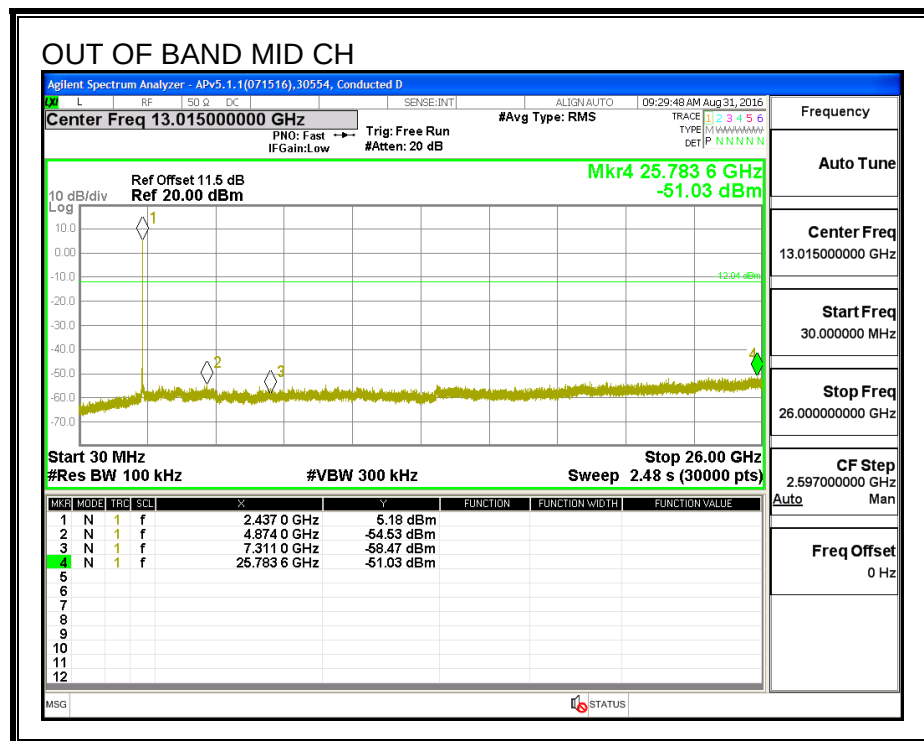
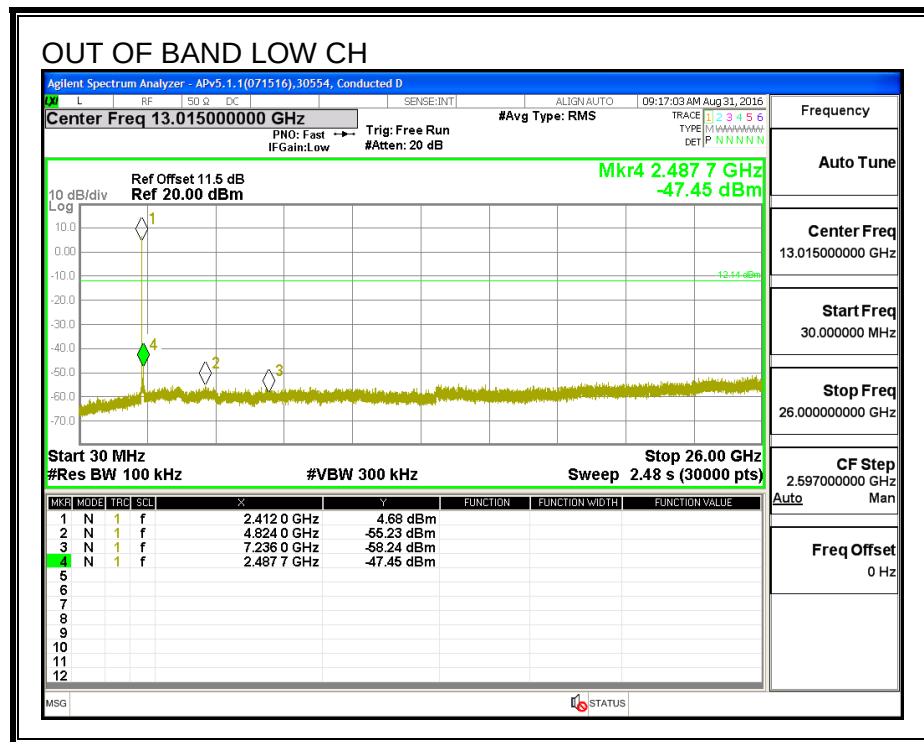
MID CHANNEL REFERENCE, Chain 0

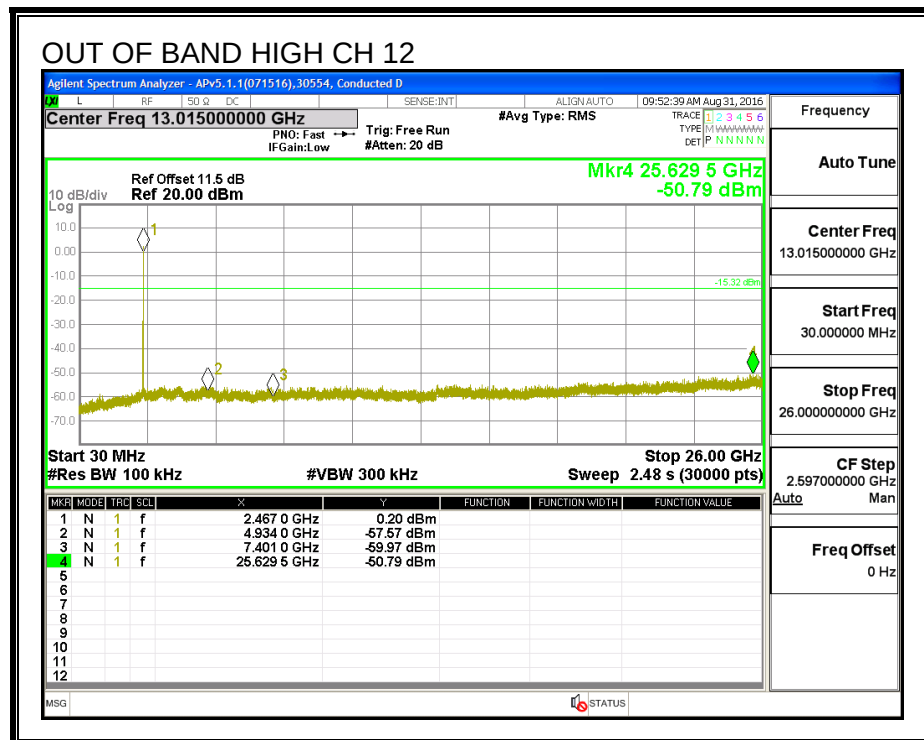
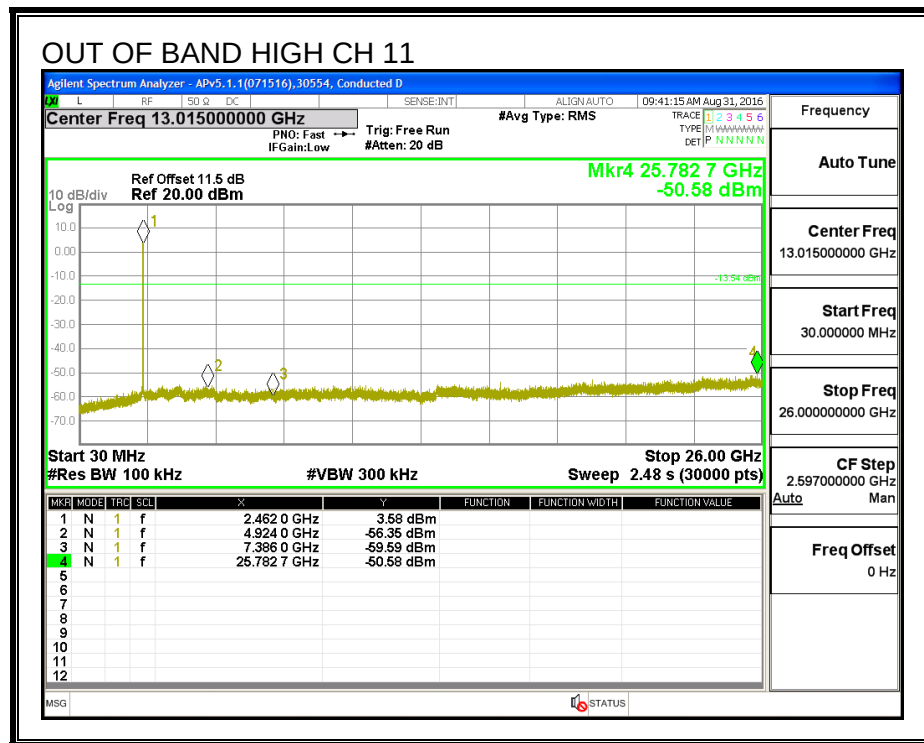


HIGH CHANNEL BANDEDGE, Chain 0

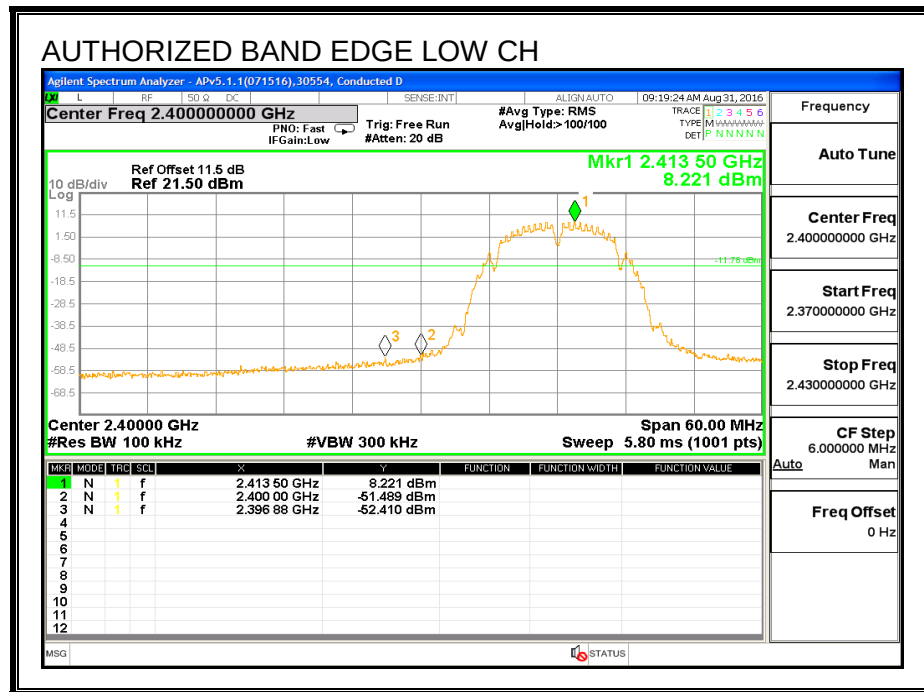


OUT-OF-BAND EMISSIONS, Chain 0

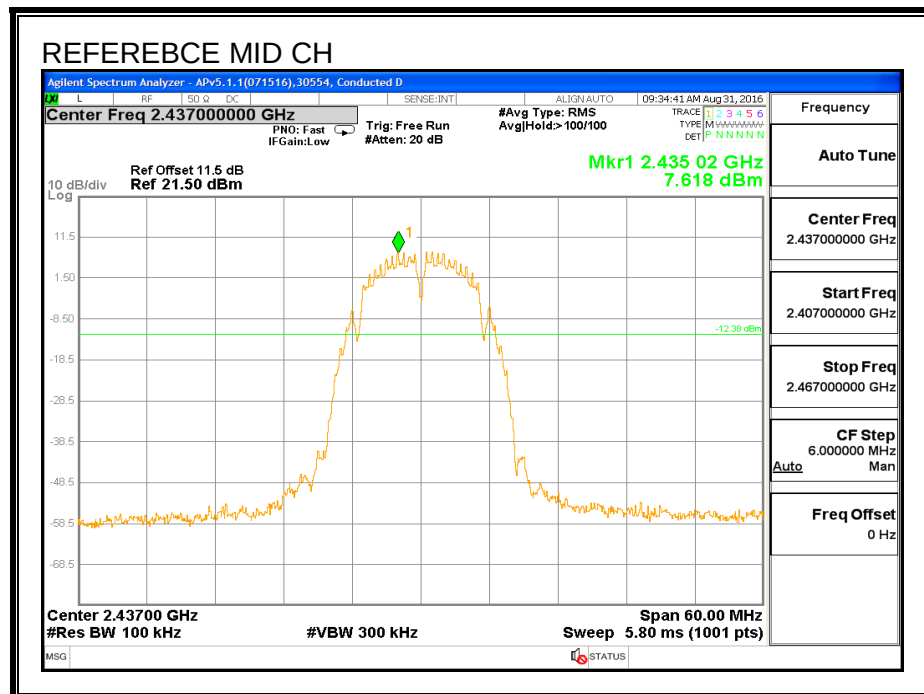




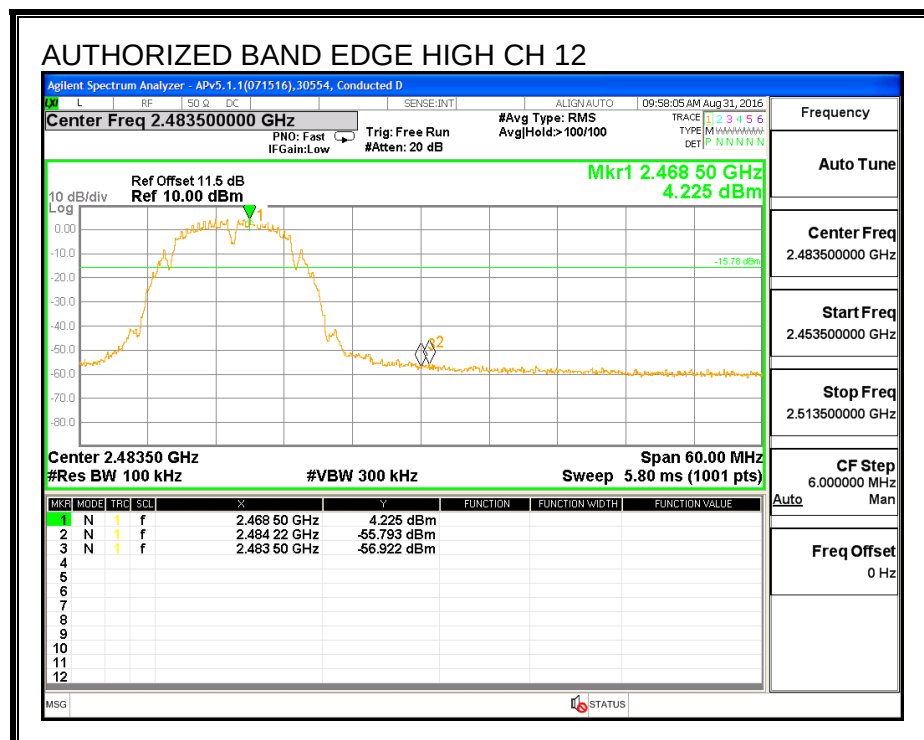
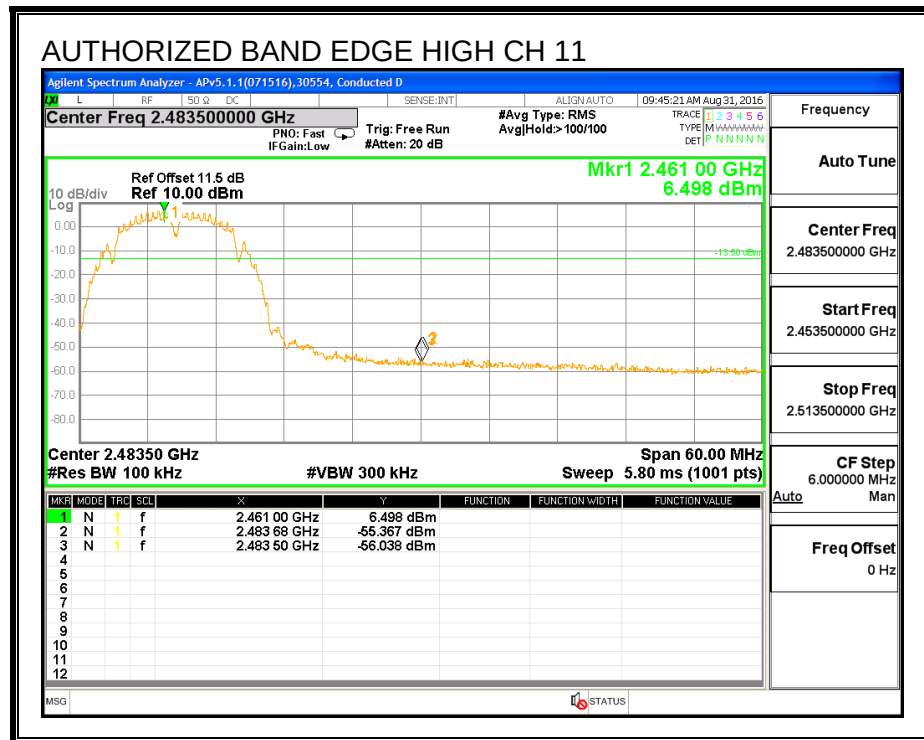
LOW CHANNEL BANDEDGE, Chain 2



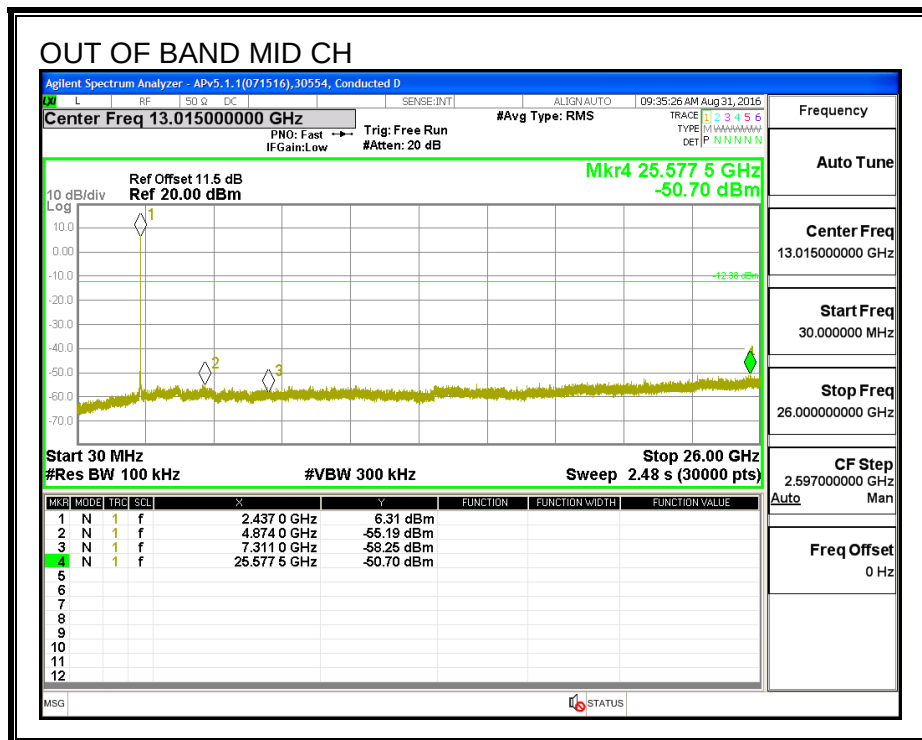
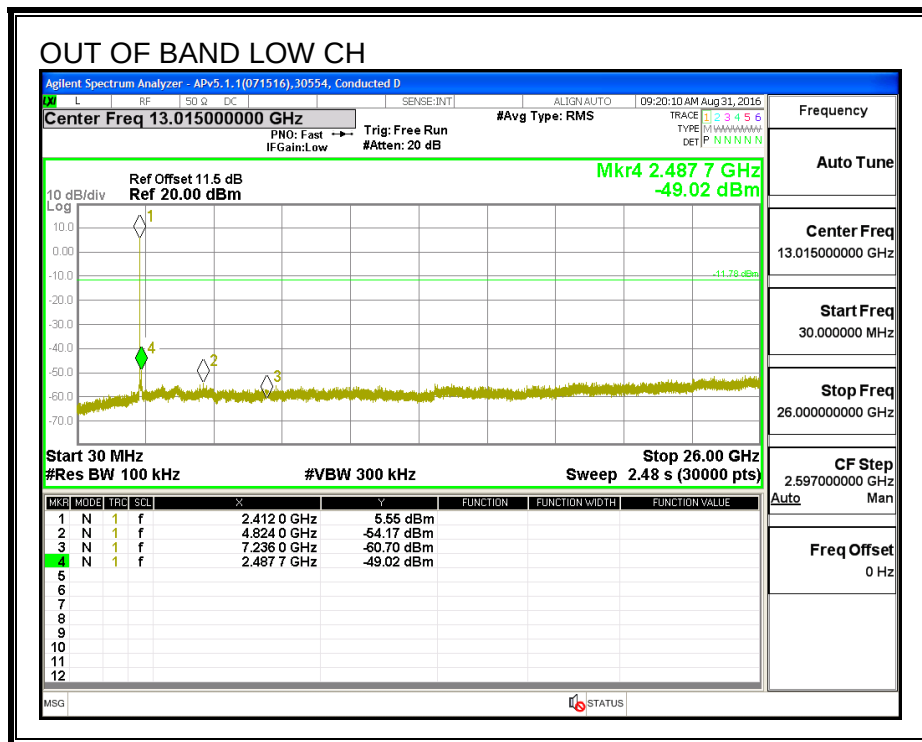
MID CHANNEL REFERENCE, Chain 2

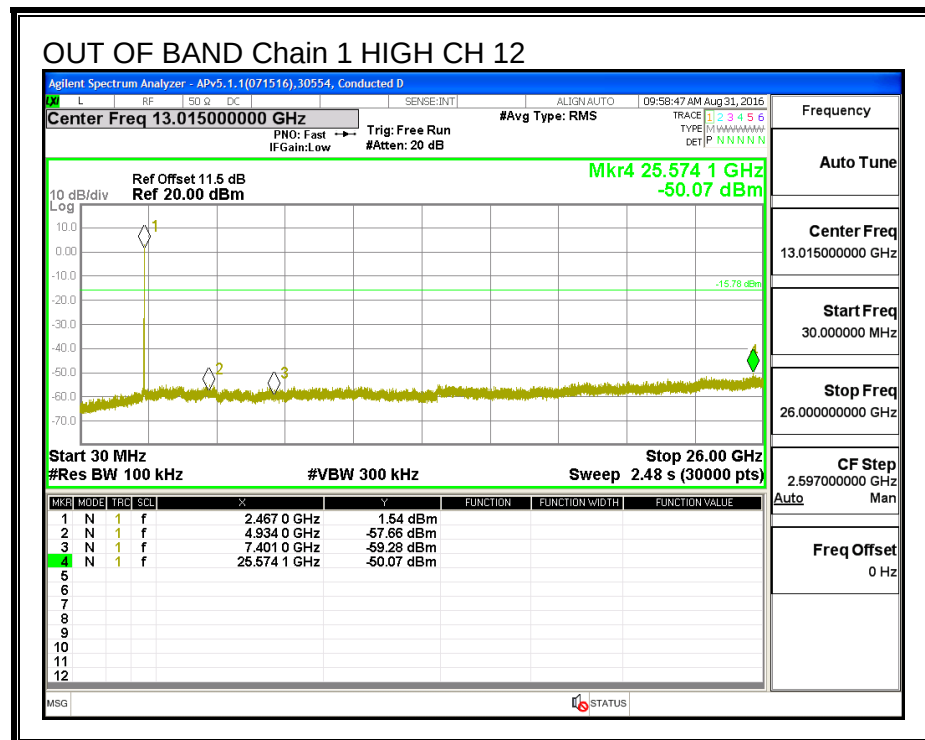


HIGH CHANNEL BANDEDGE, Chain 2



OUT-OF-BAND EMISSIONS, Chain 2





8.6. 802.11b 2TX MODE IN THE 2.4 GHZ BAND, CHAIN 1+2

8.6.1. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

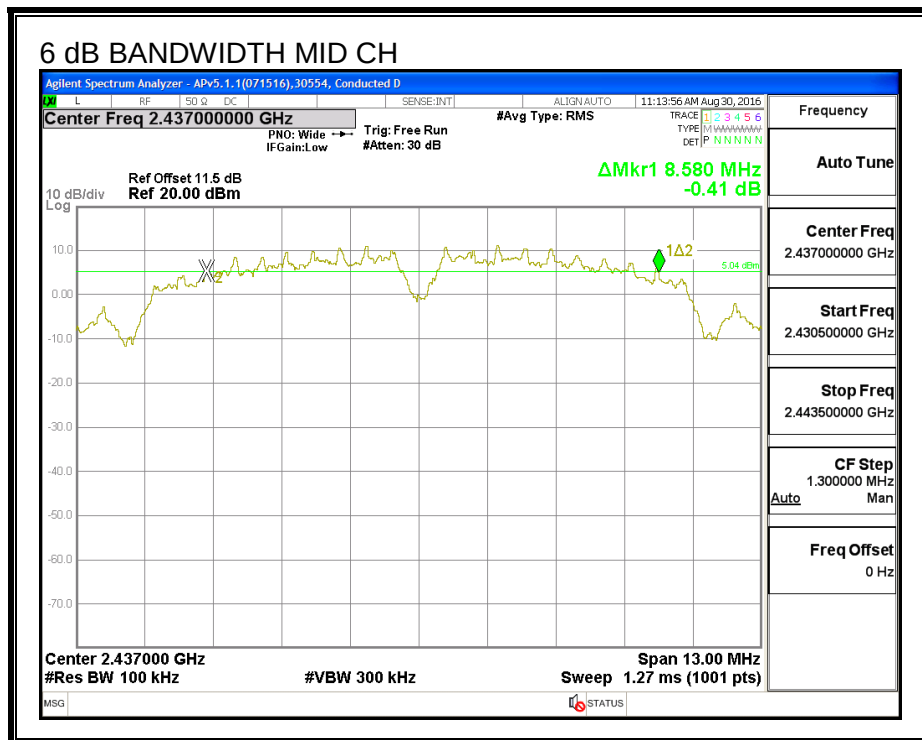
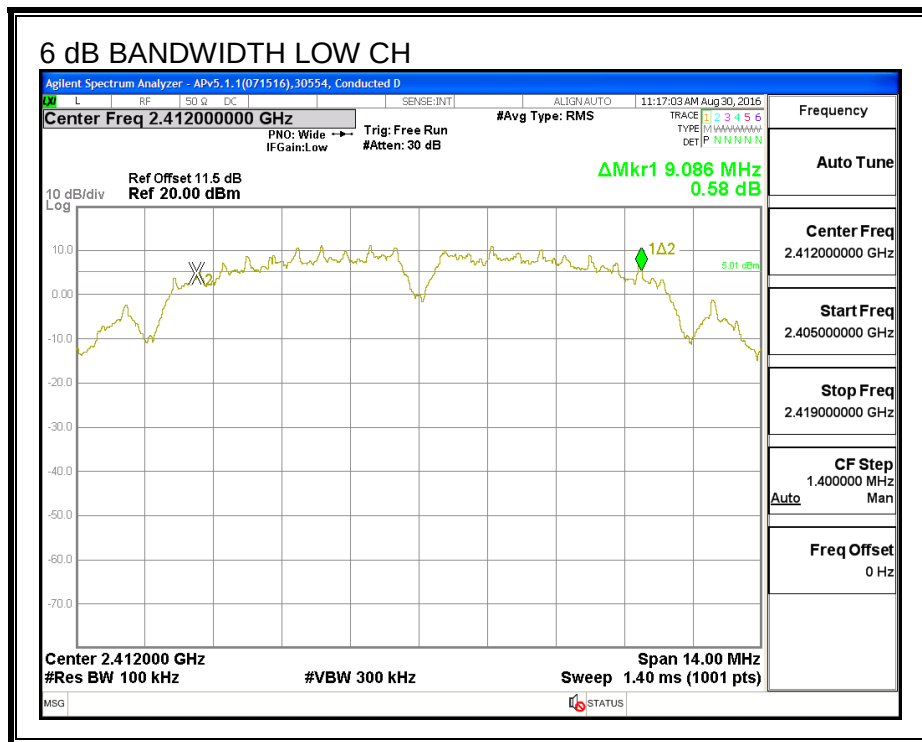
IC RSS-247 (5.2) (1)

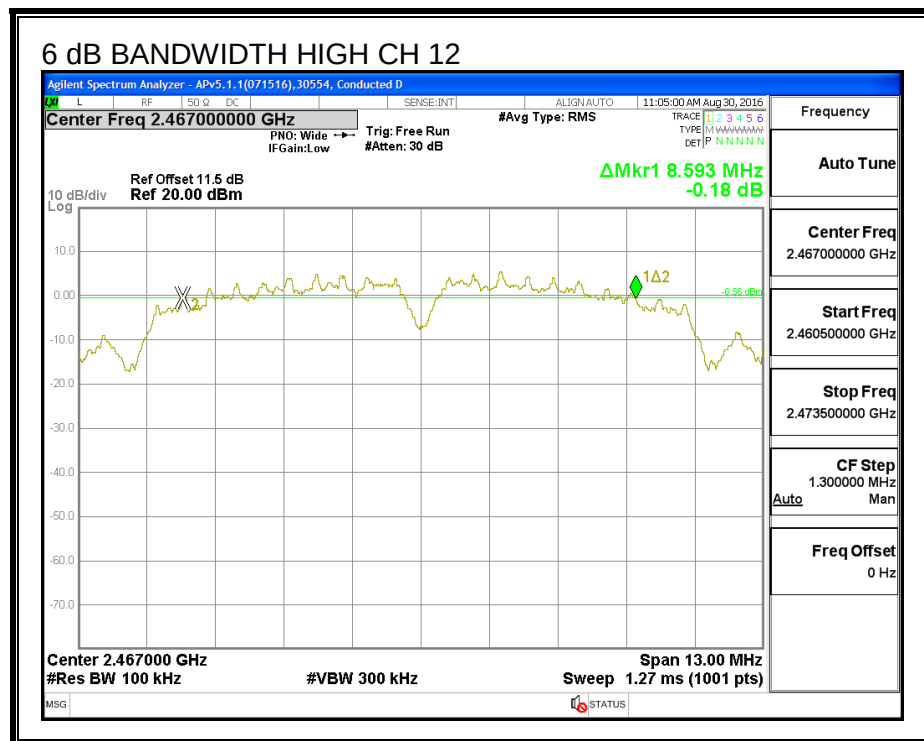
The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

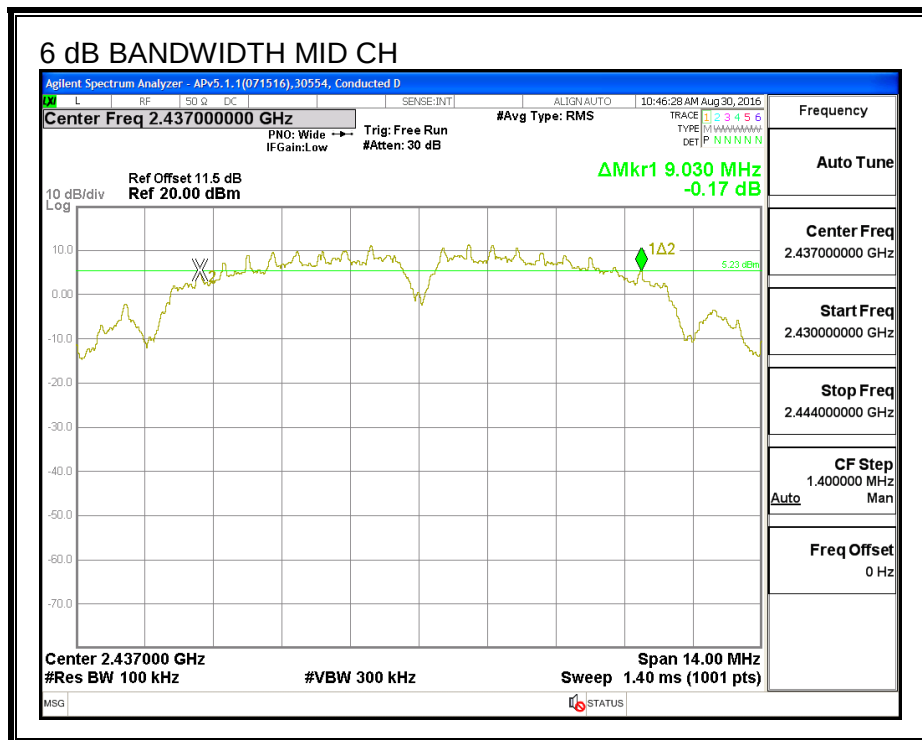
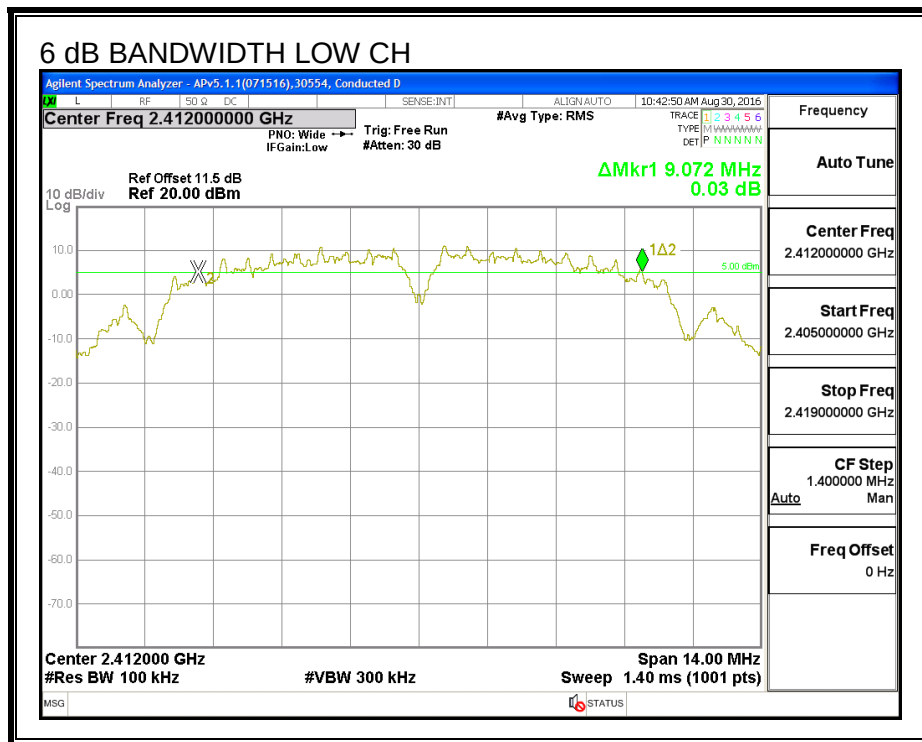
Channel	Frequency (MHz)	6 dB BW Chain 1 (MHz)	6 dB BW Chain 2 (MHz)	Minimum Limit (MHz)
Low	2412	9.086	9.072	0.5
Mid	2437	8.580	9.030	0.5
High_11	2462	8.112	8.099	0.5
High_12	2467	8.593	9.030	0.5

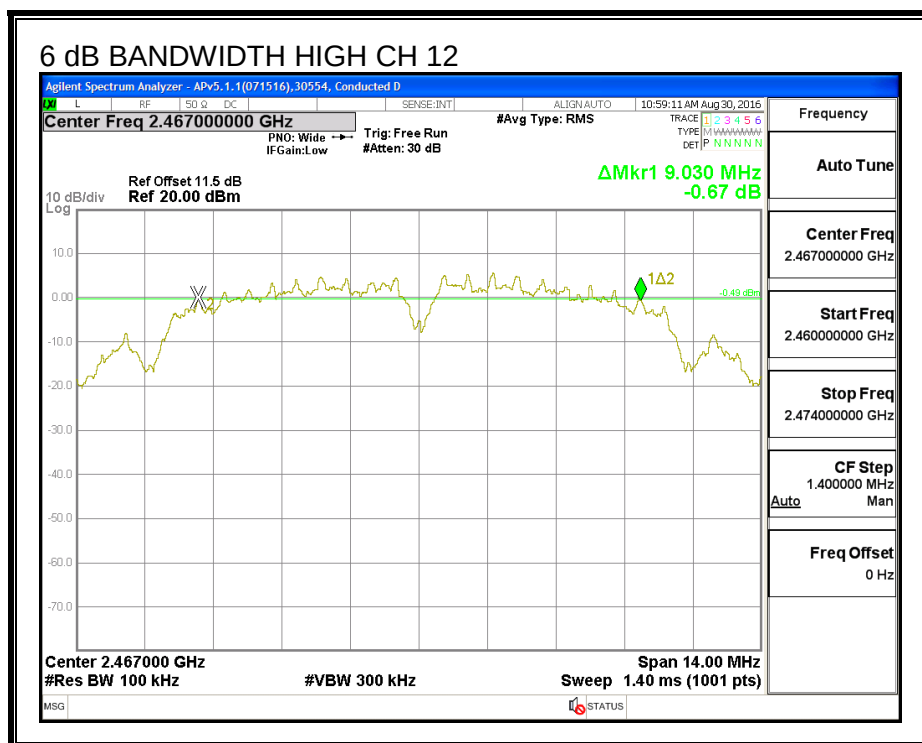
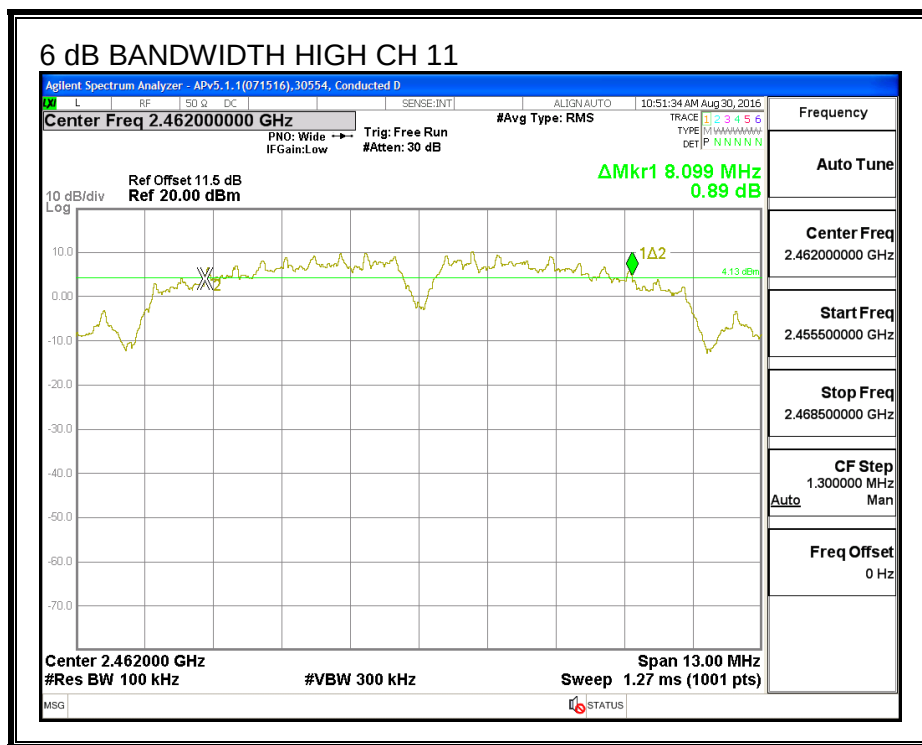
6 dB BANDWIDTH, Chain 1





6 dB BANDWIDTH, Chain 2





8.6.2. 99% BANDWIDTH

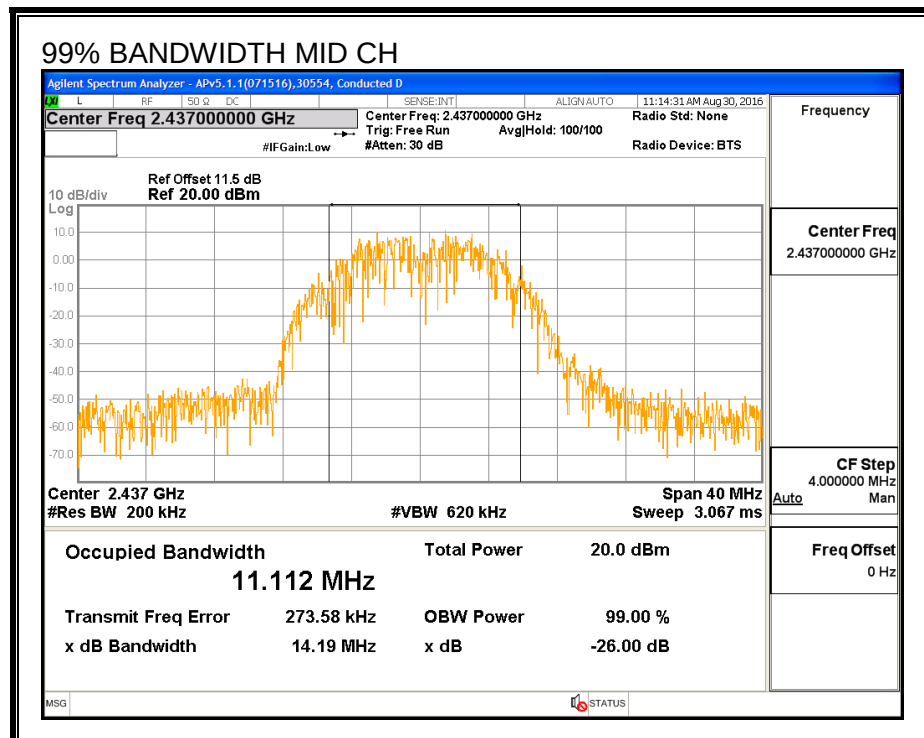
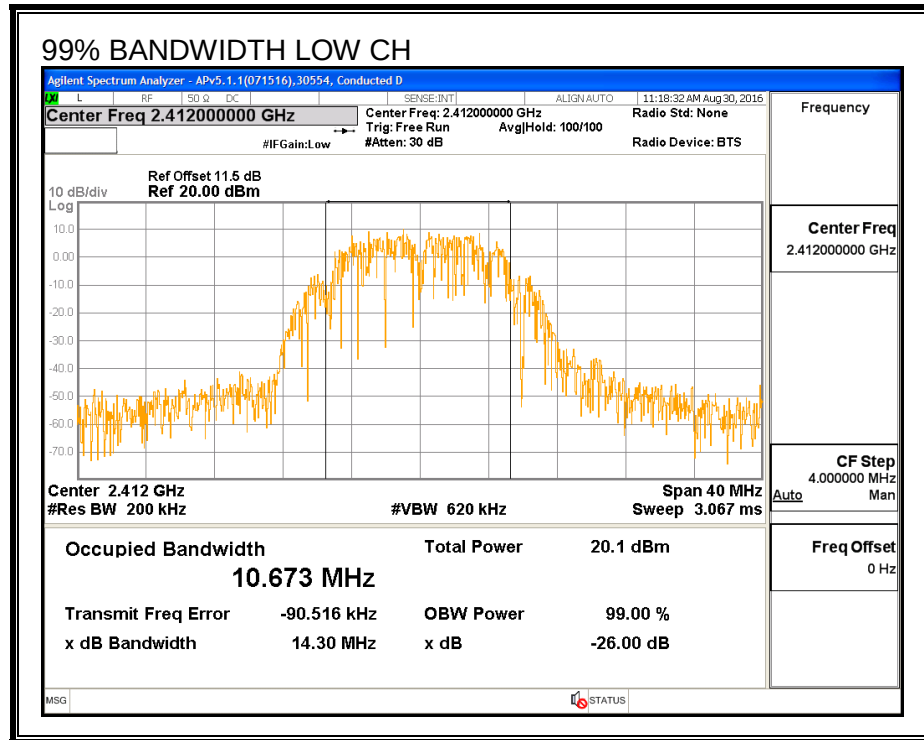
LIMITS

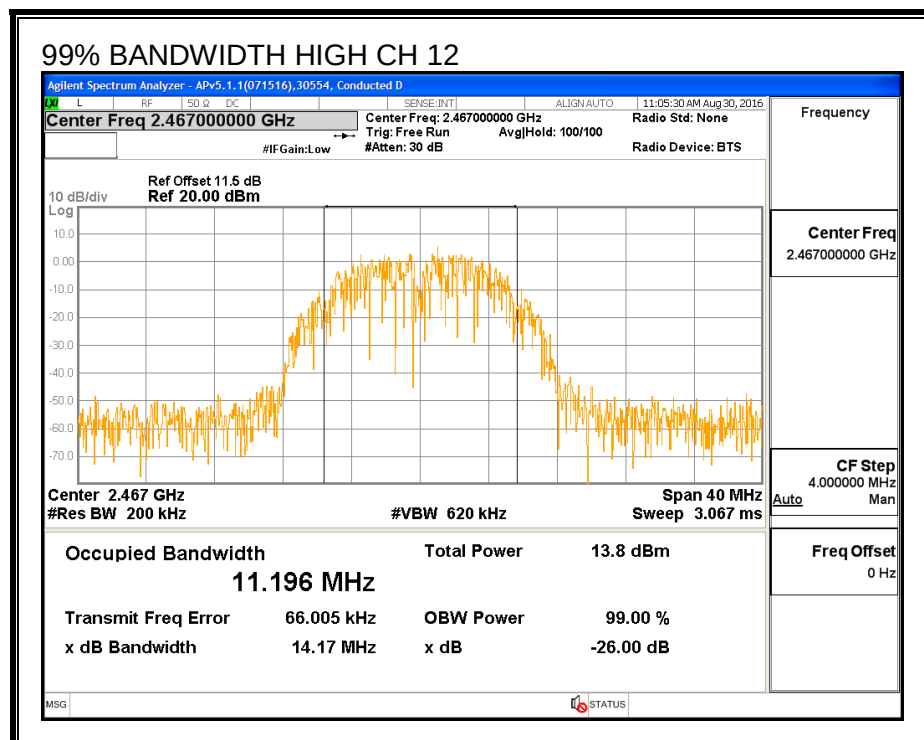
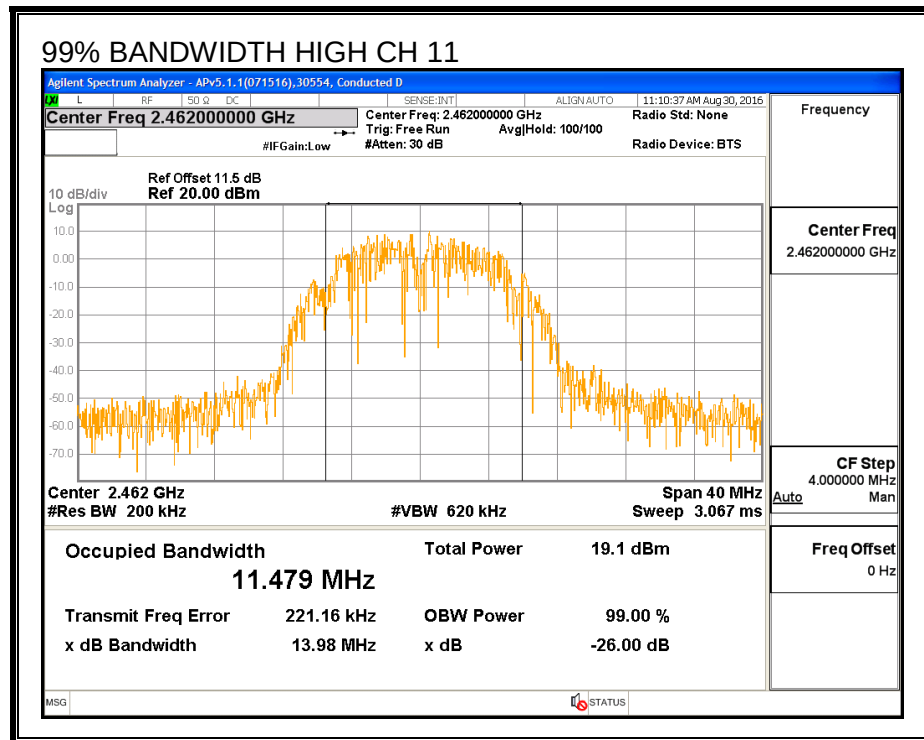
None; for reporting purposes only.

RESULTS

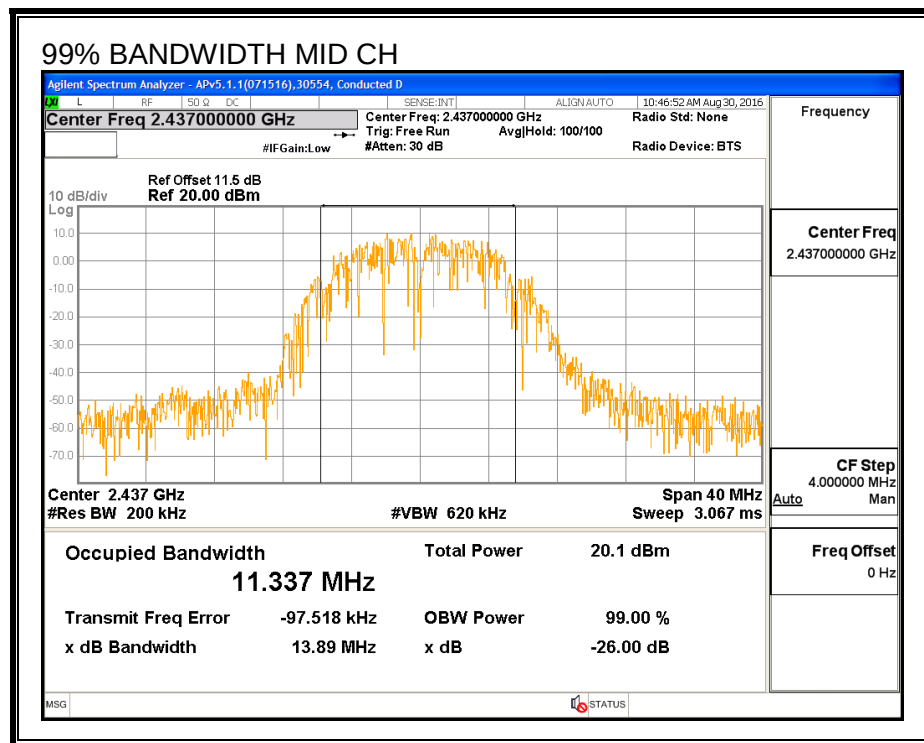
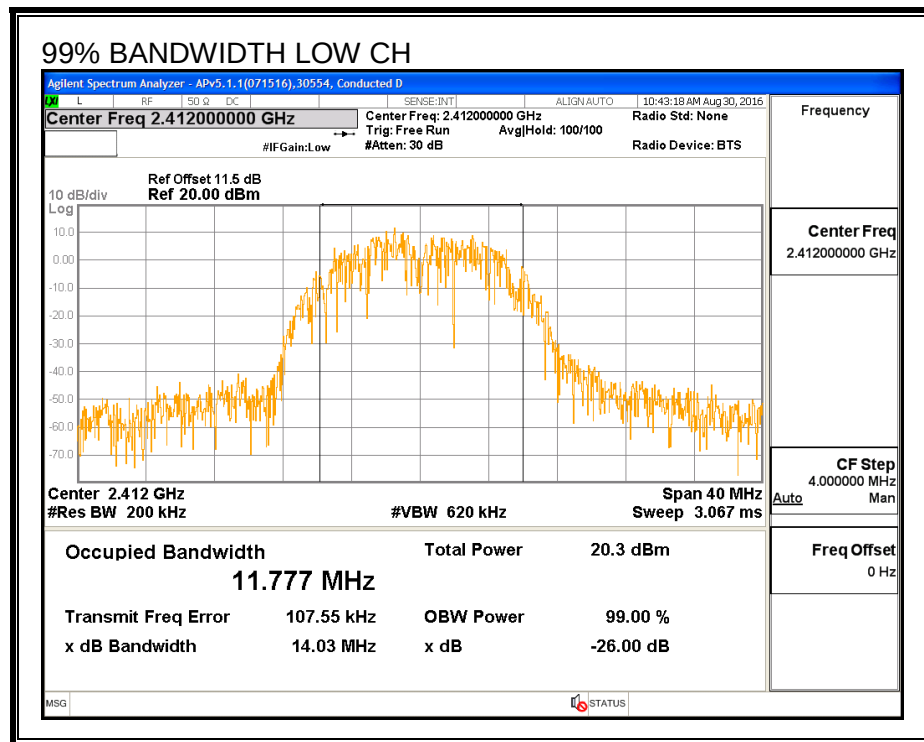
Channel	Frequency (MHz)	99% BW Chain 1 (MHz)	99% BW Chain 2 (MHz)
Low	2412	10.673	11.777
Mid	2437	11.112	11.337
High_11	2462	11.479	11.772
High_12	2467	11.196	10.731

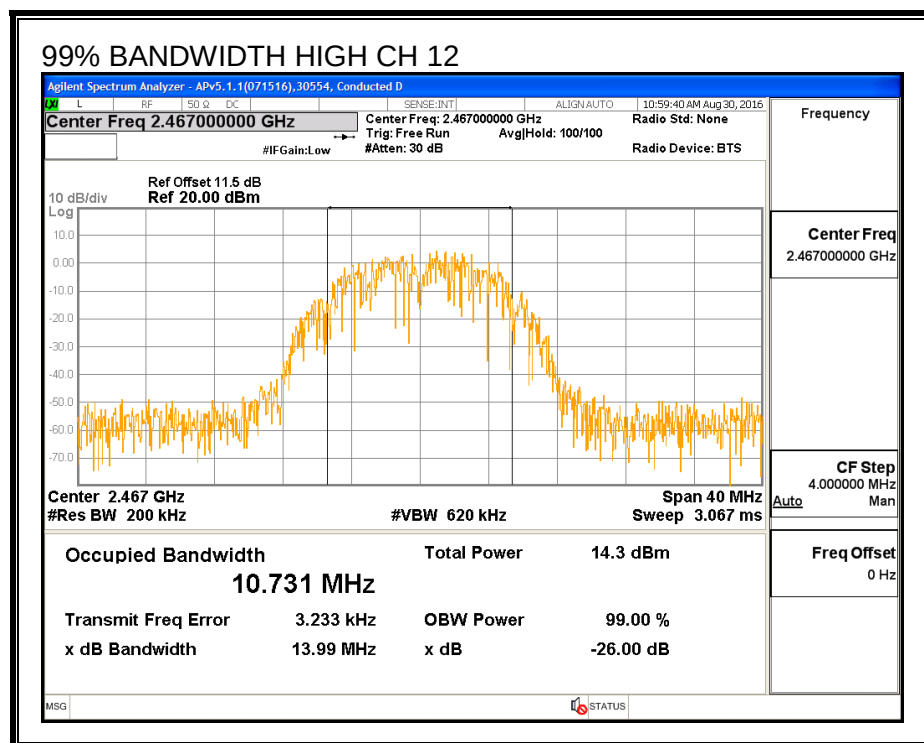
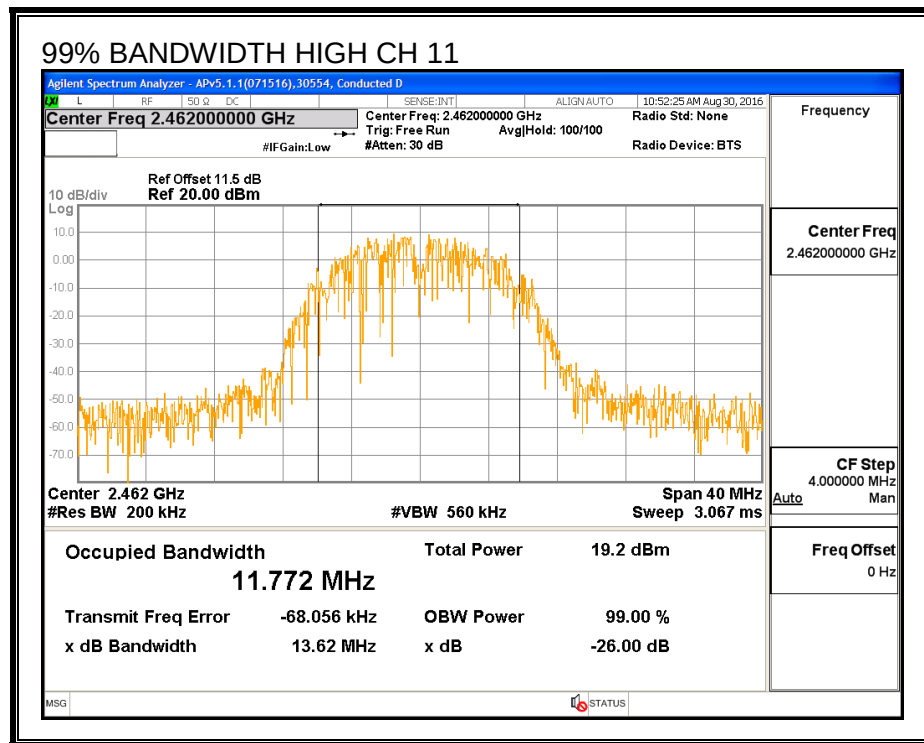
99% BANDWIDTH, Chain 1





99% BANDWIDTH, Chain 2





8.6.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	Chain 1 Power (dBm)	Chain 2 Power (dBm)	Total Power (dBm)
Low	2412	16.42	16.50	19.47
Mid	2437	16.45	16.47	19.47
High_11	2462	14.47	14.48	17.49
High_12	2467	12.93	13.00	15.98

8.6.4. OUTPUT POWER

LIMITS

FCC §15.247

IC RSS-247 (5.4) (4)

For systems using digital modulation in the 902–928 MHz, 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

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

Chain 1 Antenna Gain (dBi)	Chain 2 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
3.3	2.1	2.7

RESULTS

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
Low	2412	2.74	30.00	30	36	30.00
Mid	2437	2.74	30.00	30	36	30.00
High_11	2462	2.74	30.00	30	36	30.00
High_12	2467	2.74	30.00	30	36	30.00

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

Channel	Frequency (MHz)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margi (dB)
Low	2412	19.54	19.68	22.62	30.00	-7.38
Mid	2437	19.57	19.62	22.61	30.00	-7.39
High_11	2462	17.44	17.41	20.44	30.00	-9.56
High_12	2467	15.97	16.03	19.01	30.00	-10.99

8.6.5. POWER SPECTRAL DENSITY

LIMITS

FCC §15.247

IC RSS-247 (5.2) (2)

For digitally modulated systems, the power spectral density conducted from 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.

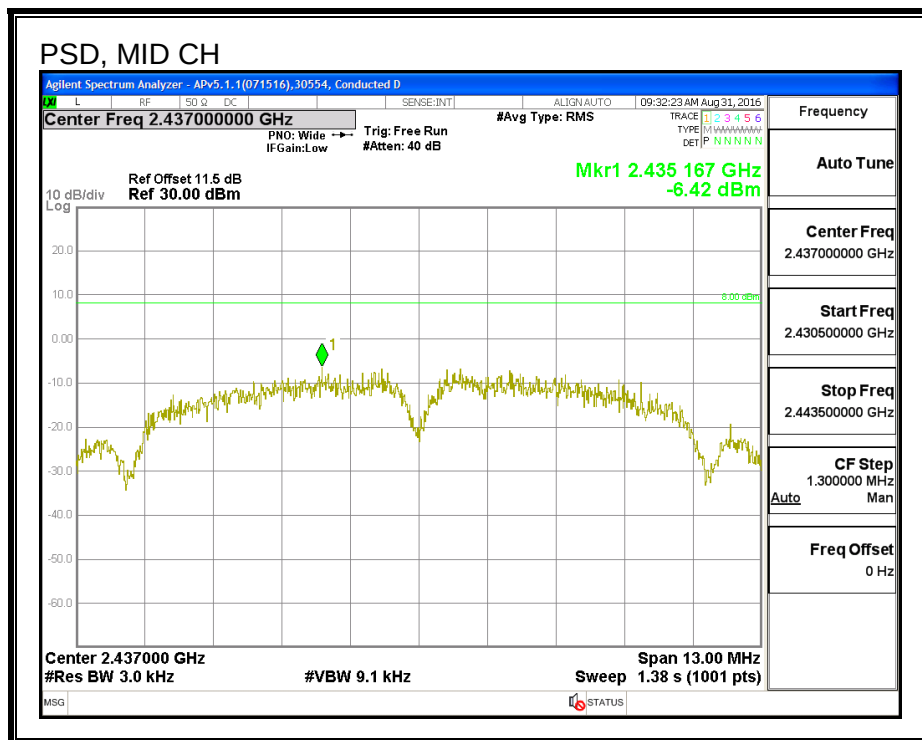
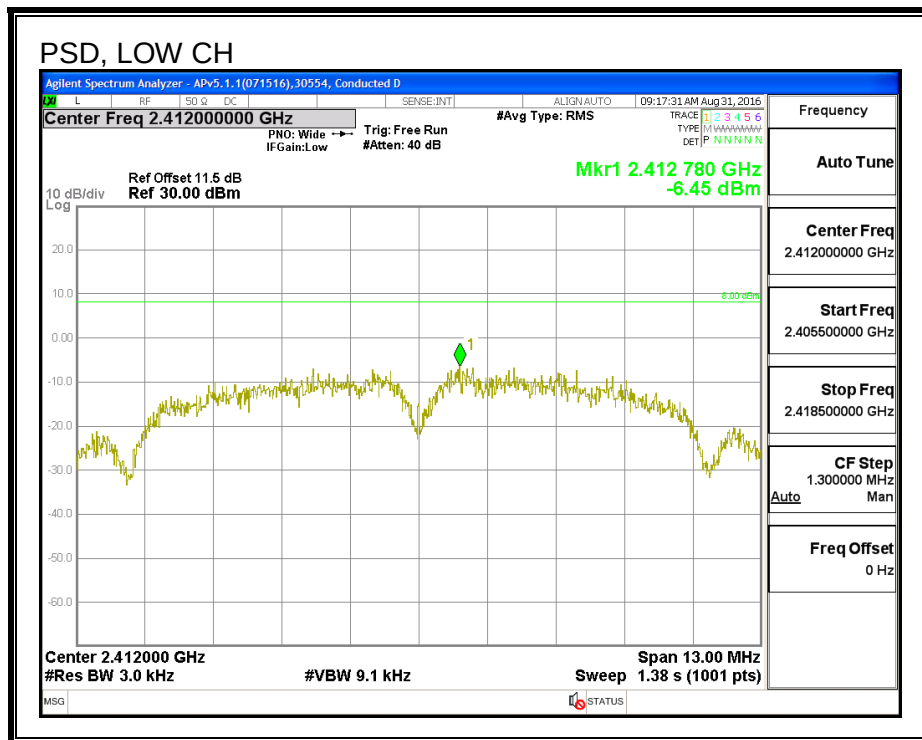
RESULTS

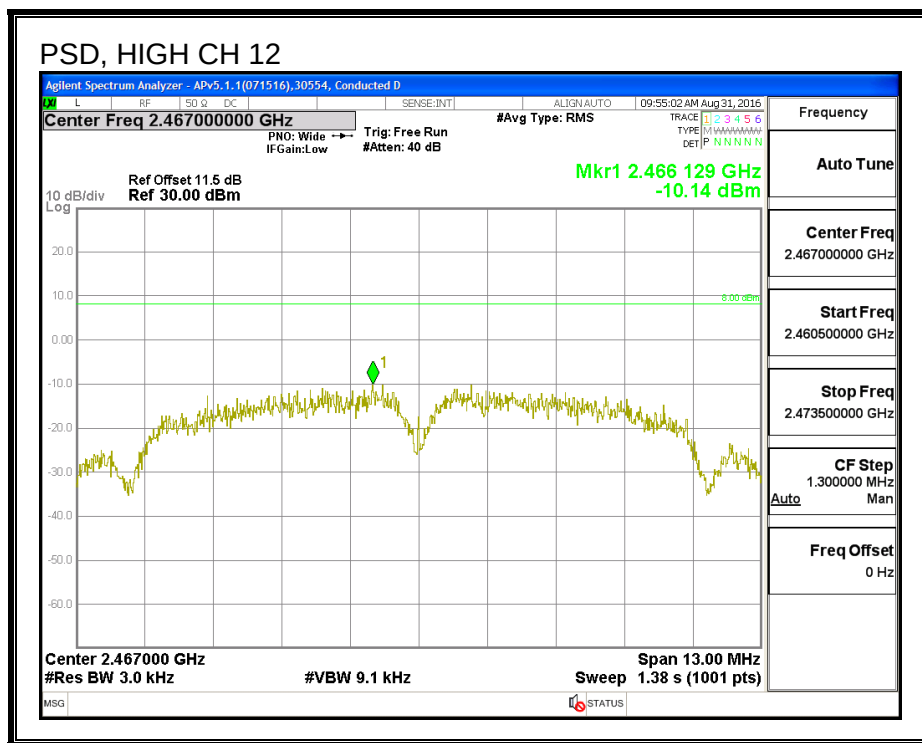
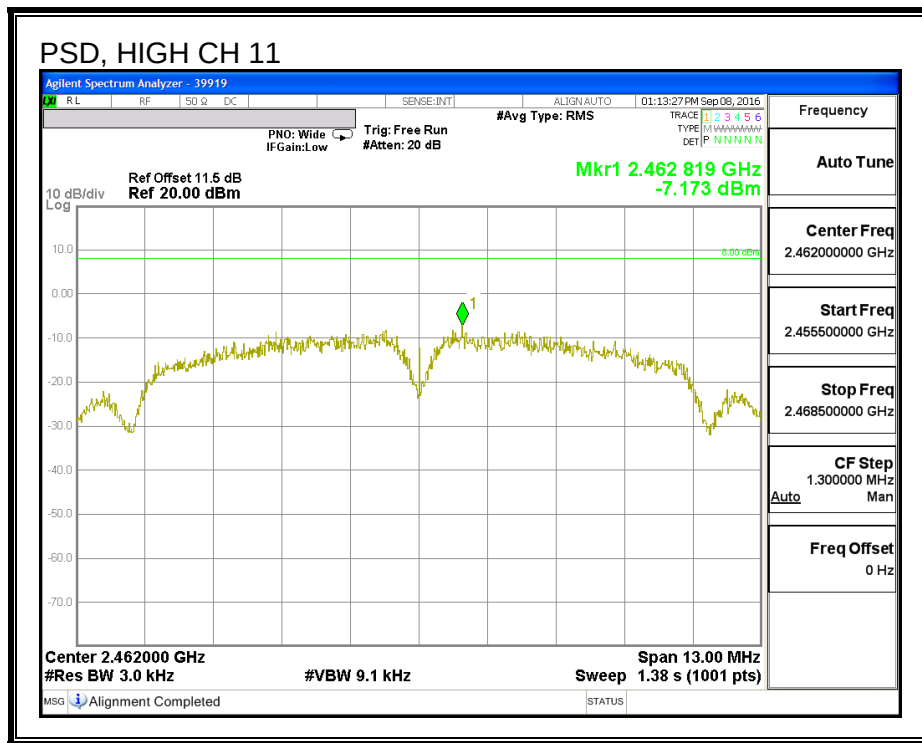
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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PSD Results

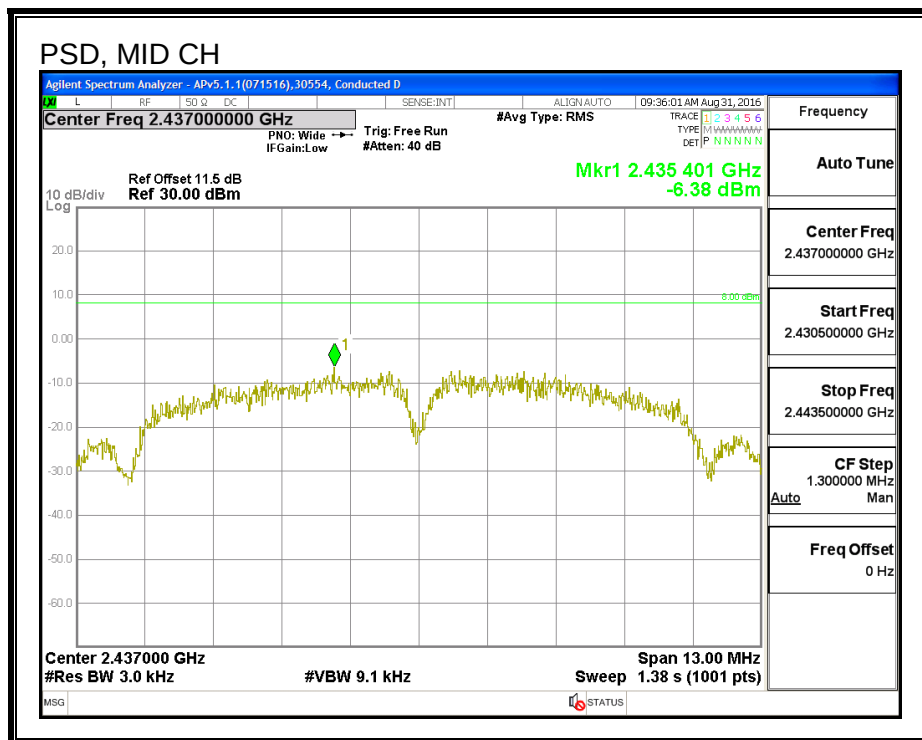
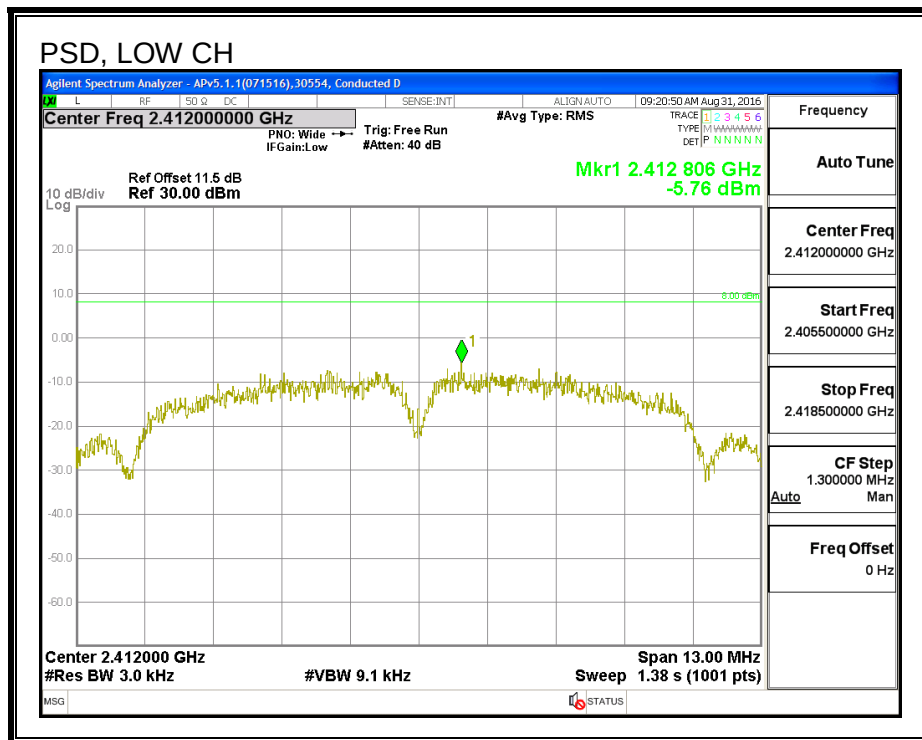
Channel	Frequency (MHz)	Chain 1 Meas (dBm)	Chain 2 Meas (dBm)	Total Corr'd PSD (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-6.45	-5.76	-3.08	8.0	-11.1
Mid	2437	-6.42	-6.38	-3.39	8.0	-11.4
High_11	2462	-7.17	-7.15	-4.15	8.0	-12.2
High_12	2467	-10.14	-9.99	-7.05	8.0	-15.1

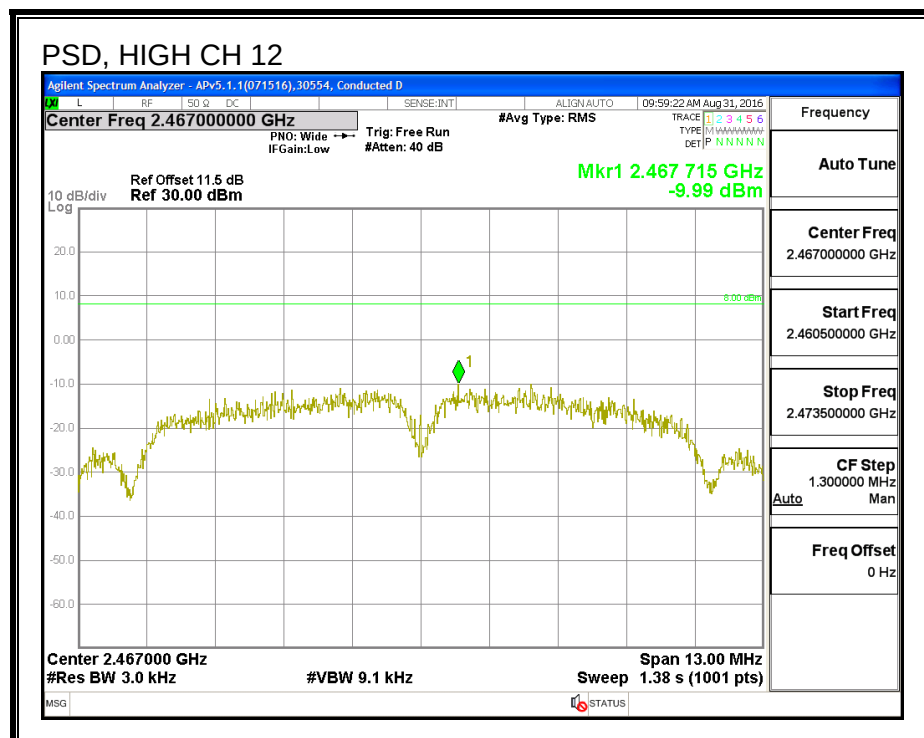
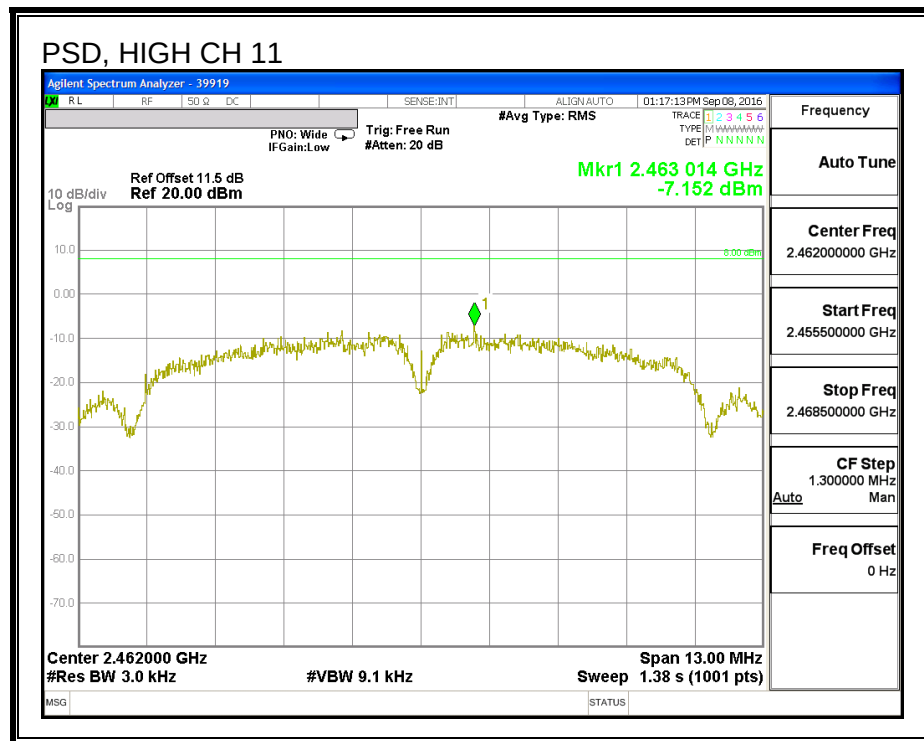
PSD, Chain 1





PSD, Chain 2





8.6.6. OUT-OF-BAND EMISSIONS

LIMITS

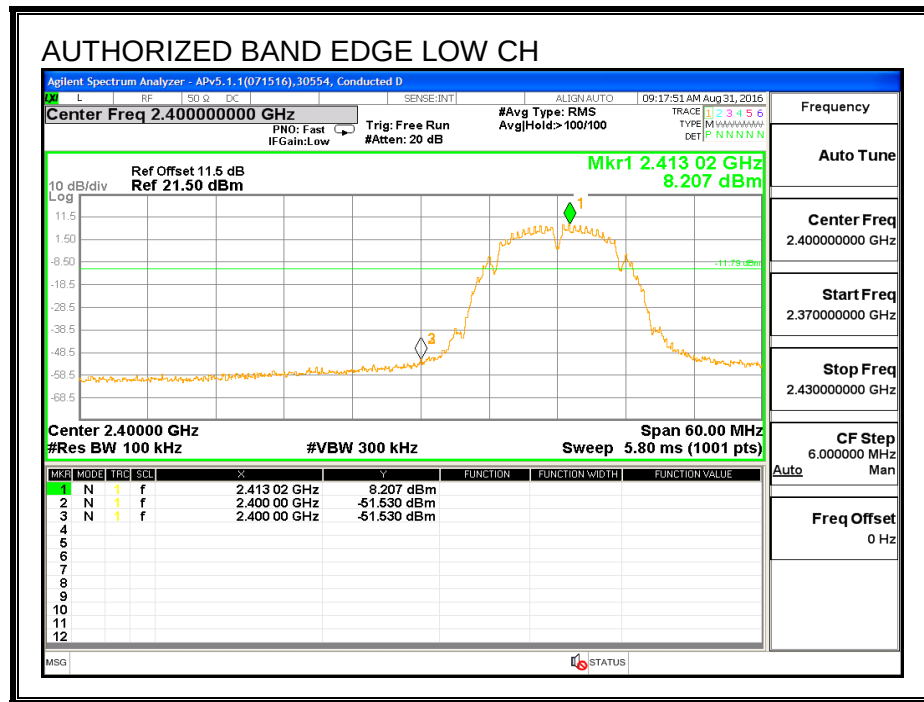
FCC §15.247 (d)

IC RSS-247 (5.5)

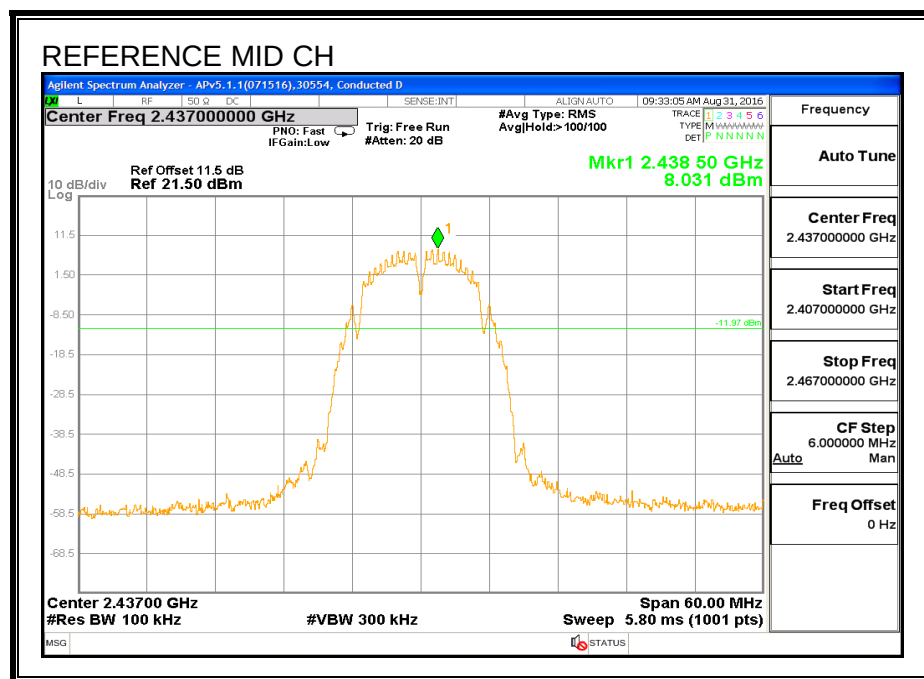
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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

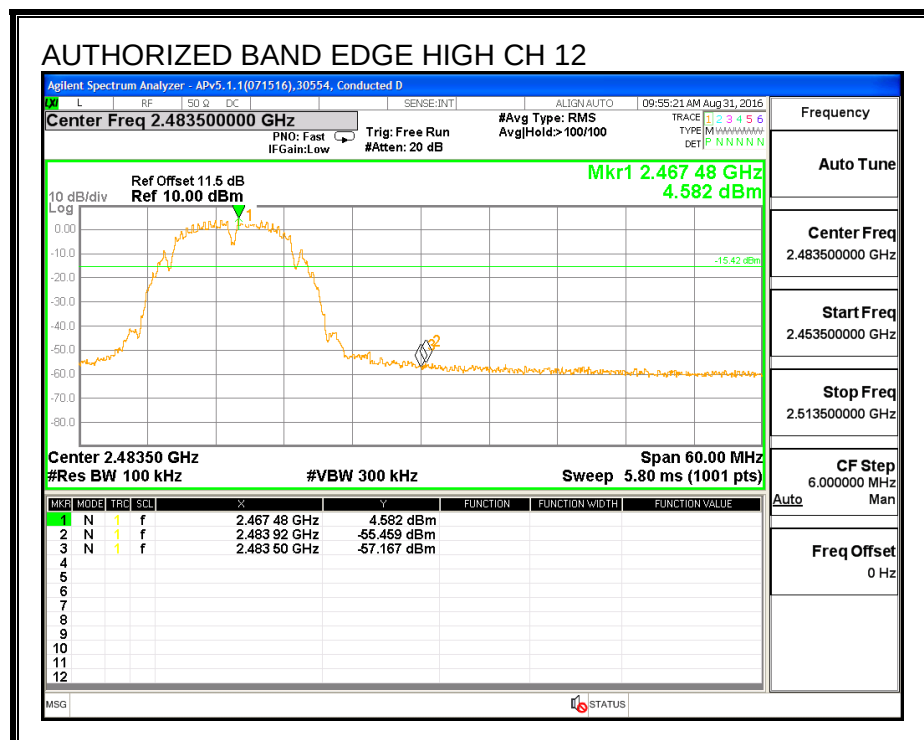
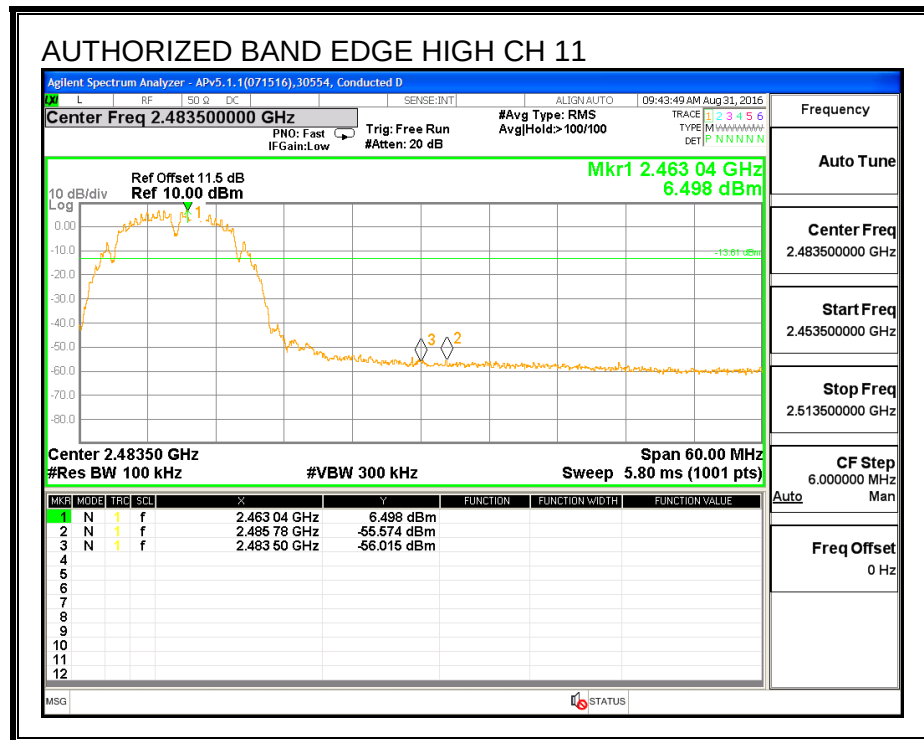
LOW CHANNEL BANDEDGE, Chain 1



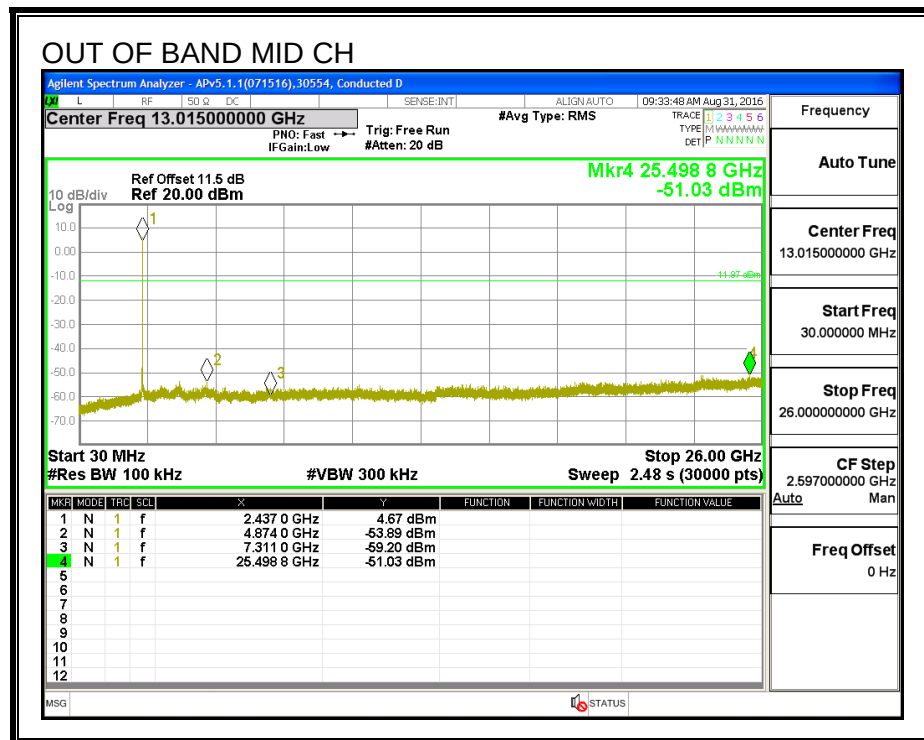
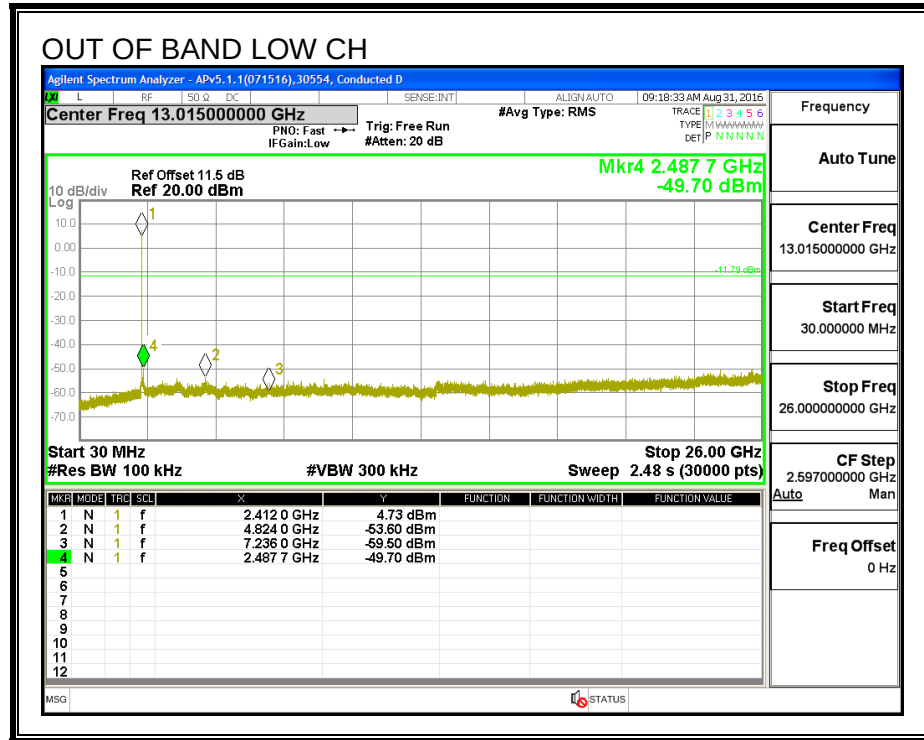
MID CHANNEL REFERENCE, Chain 1

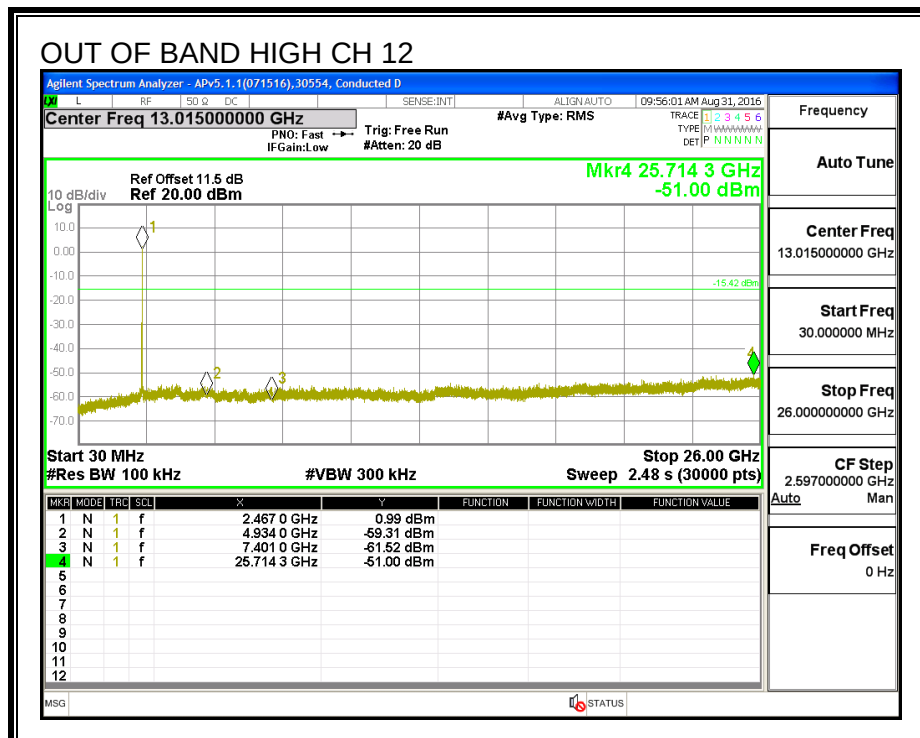
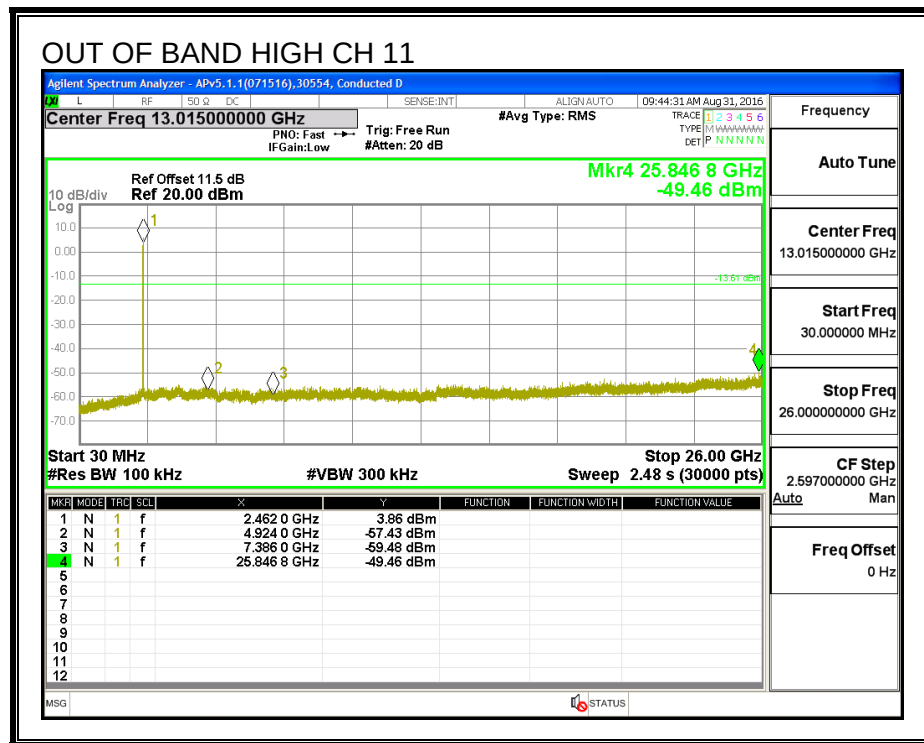


HIGH CHANNEL BANDEDGE, Chain 1

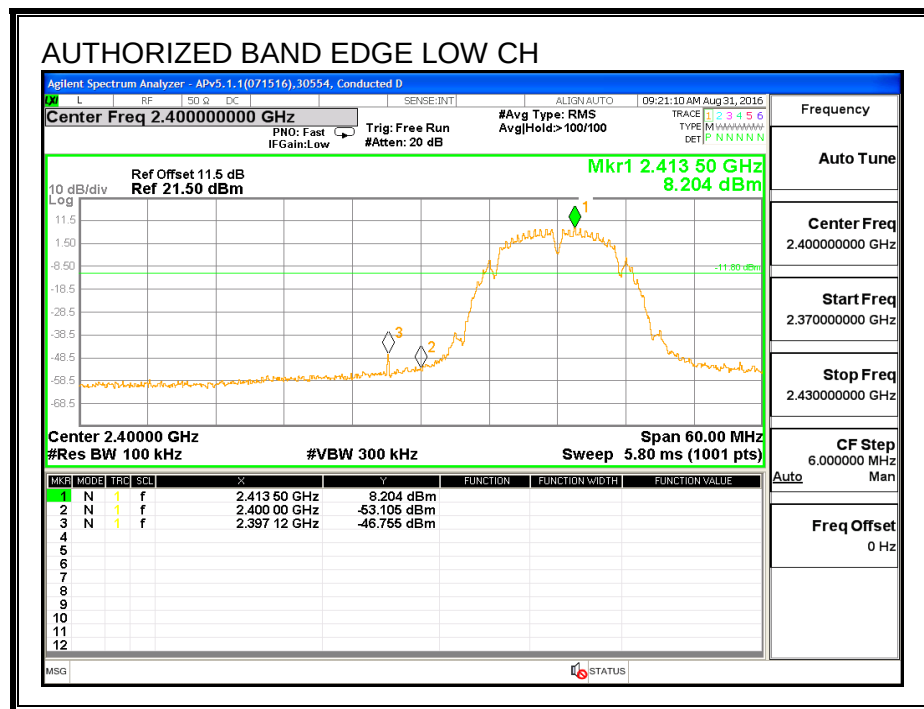


OUT-OF-BAND EMISSIONS, Chain 1

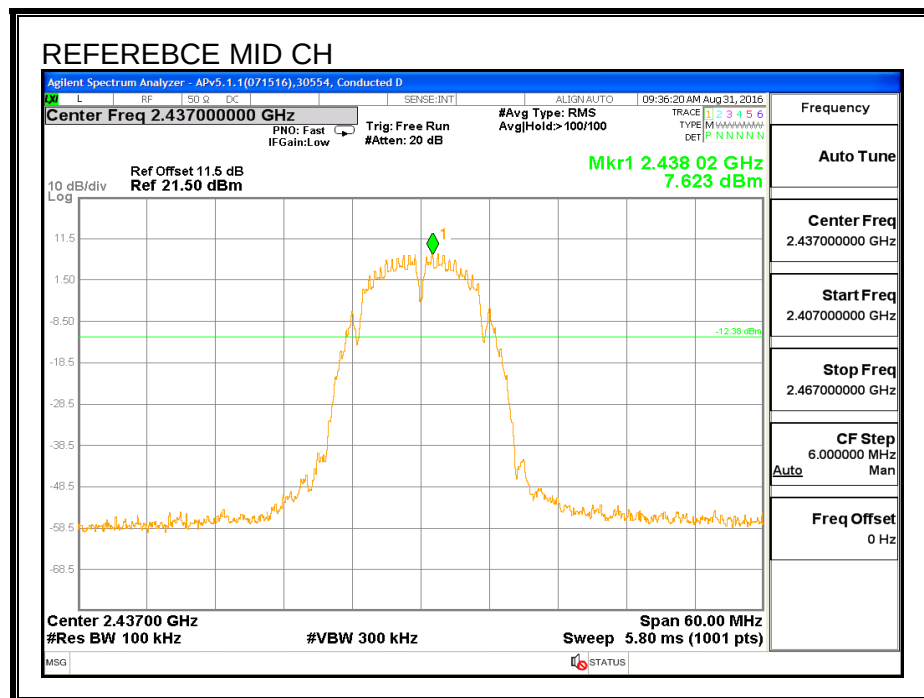




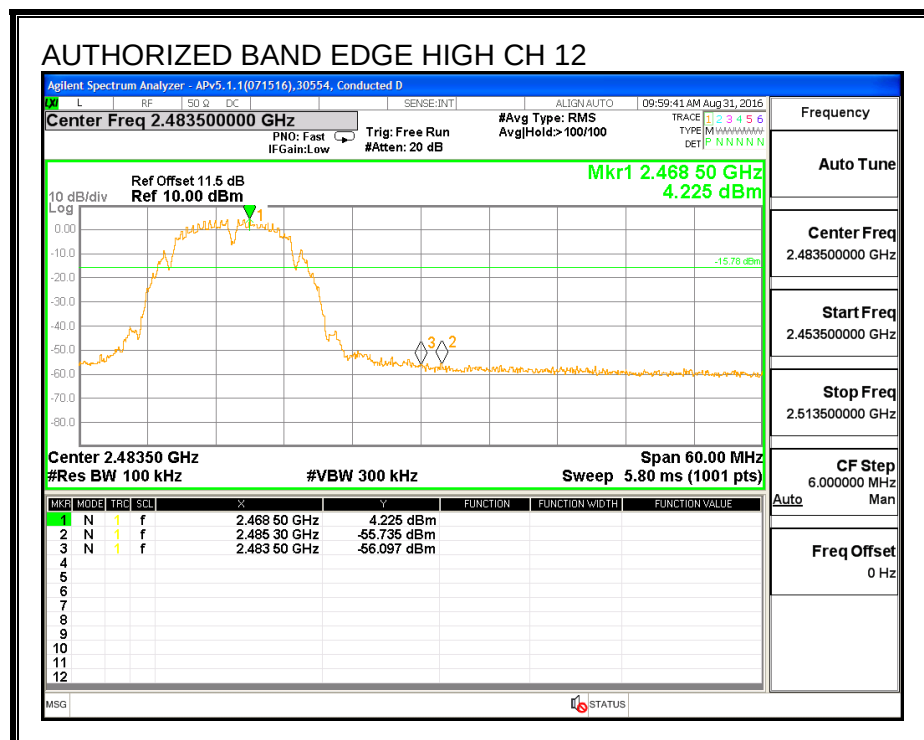
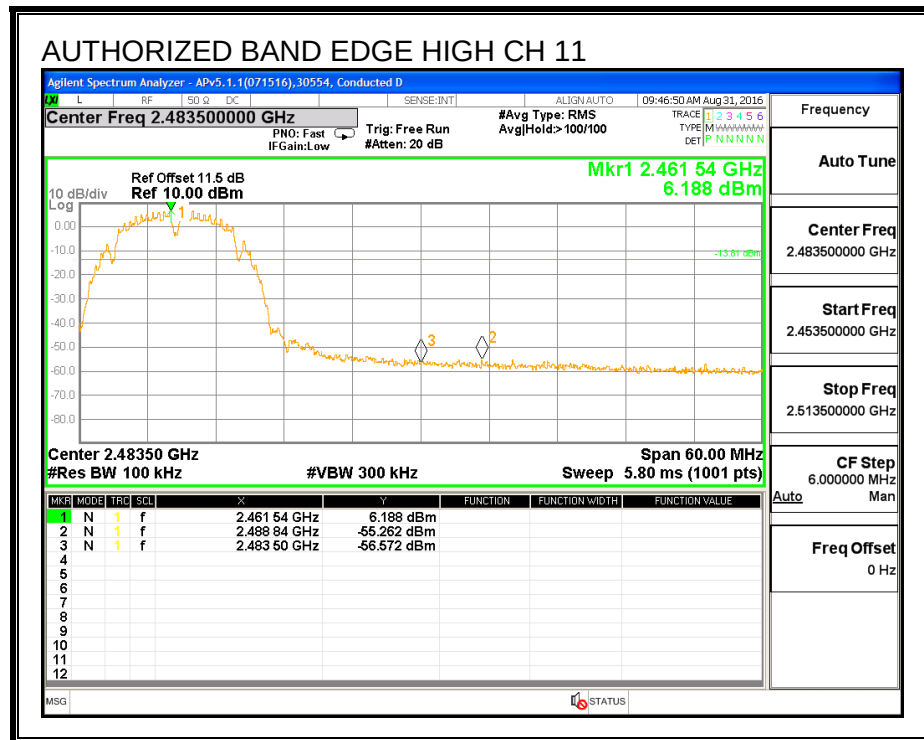
LOW CHANNEL BANDEDGE, Chain 2



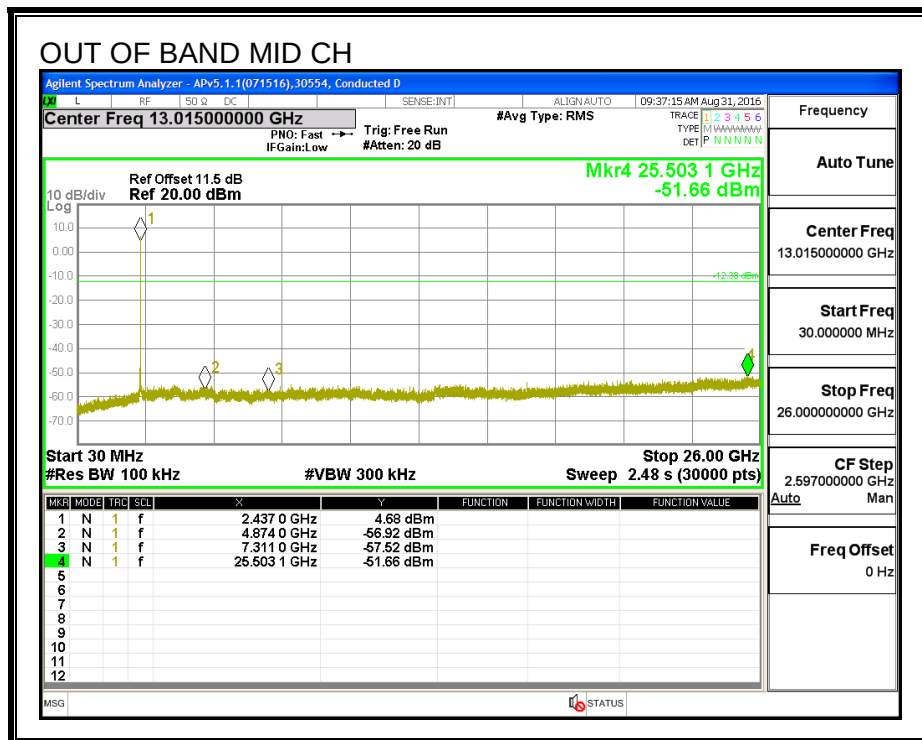
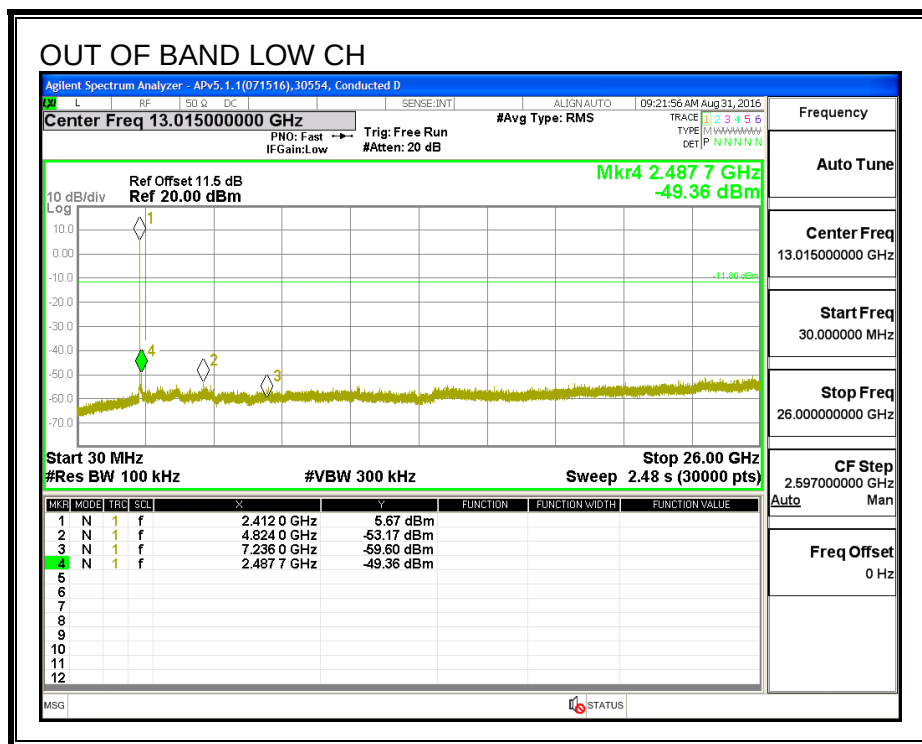
MID CHANNEL REFERENCE, Chain 2

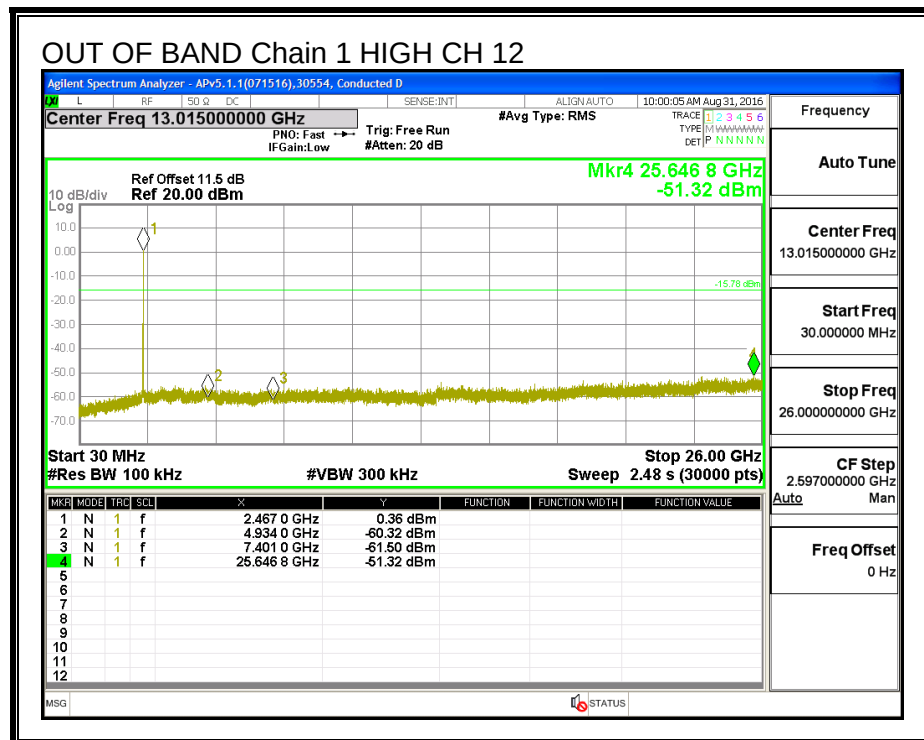
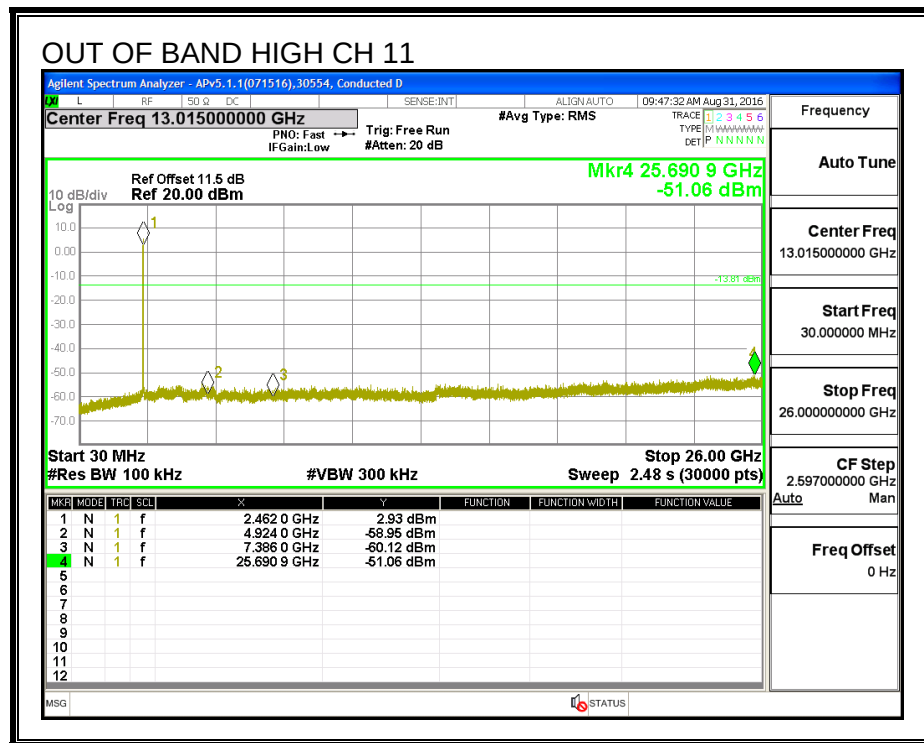


HIGH CHANNEL BANDEDGE, Chain 2



OUT-OF-BAND EMISSIONS, Chain 2





8.7. 802.11b 3TX MODE IN THE 2.4 GHZ BAND

8.7.1. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

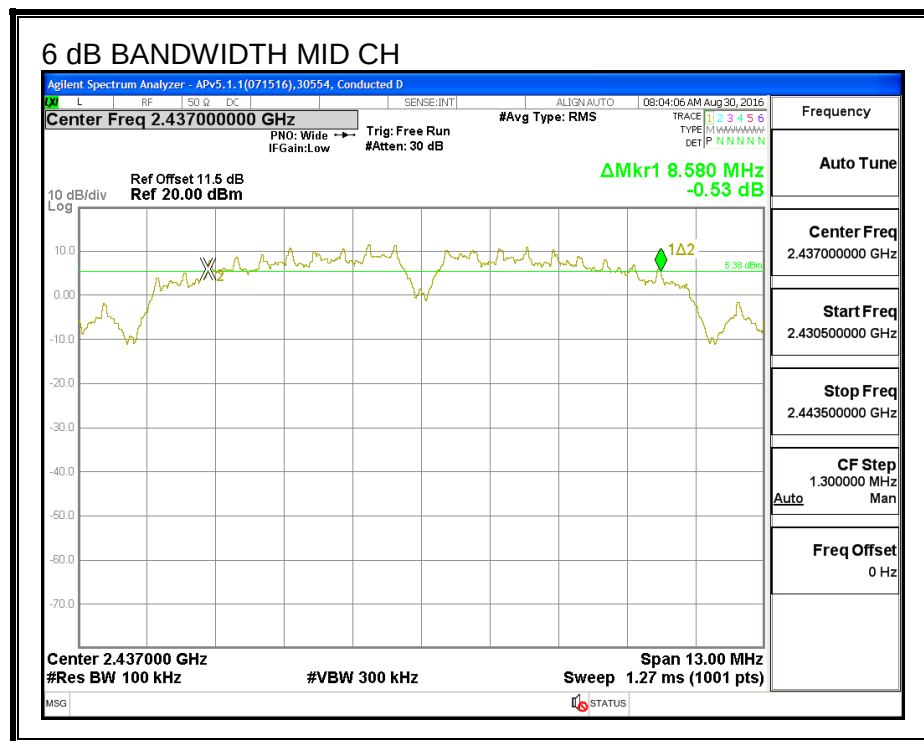
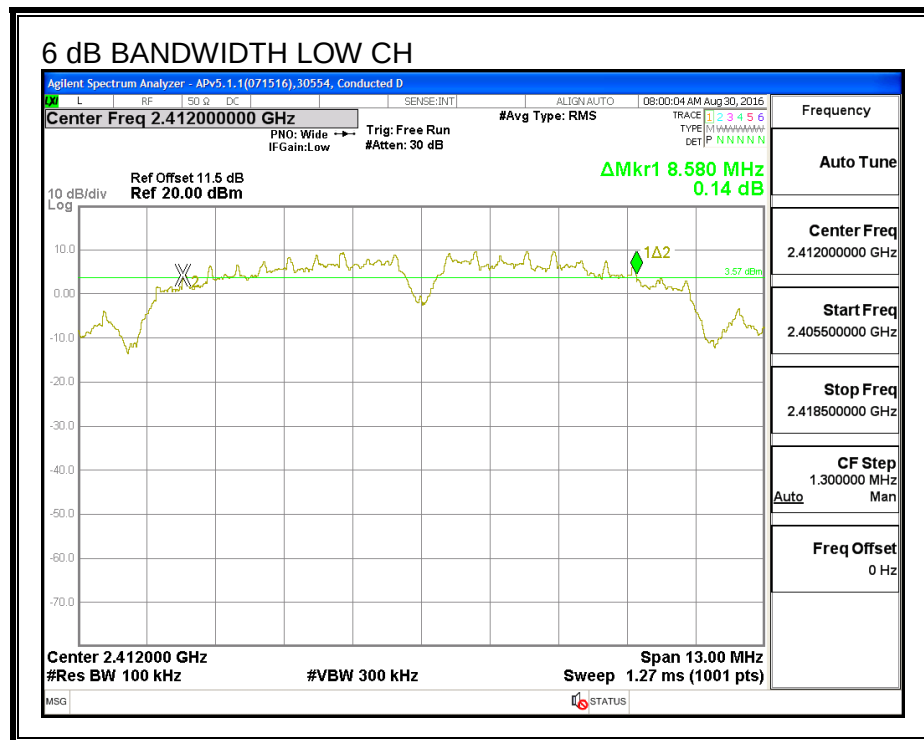
IC RSS-247 (5.2) (1)

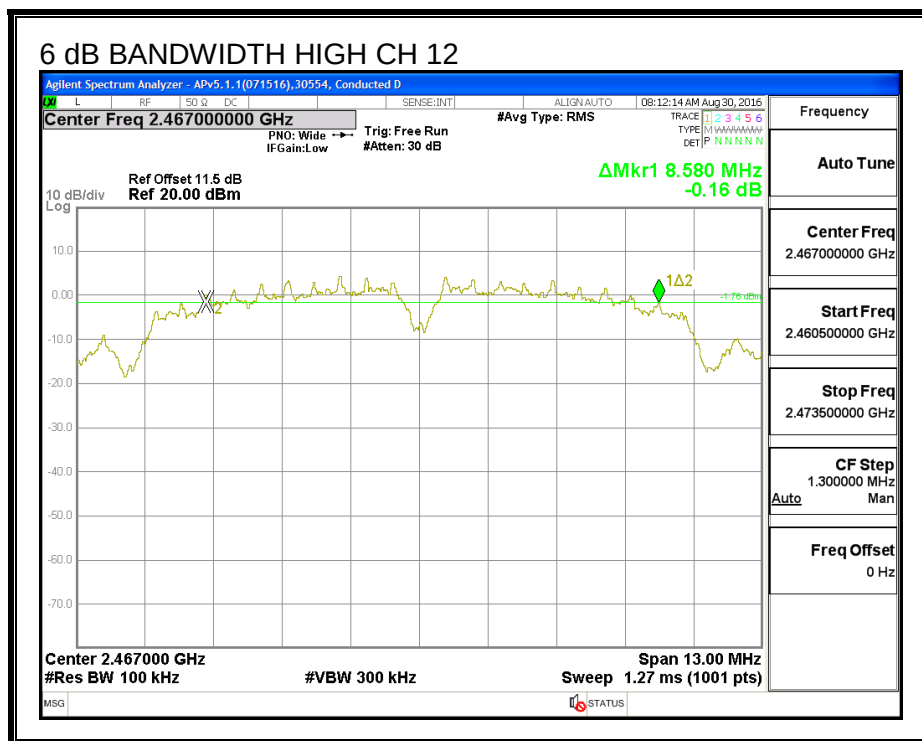
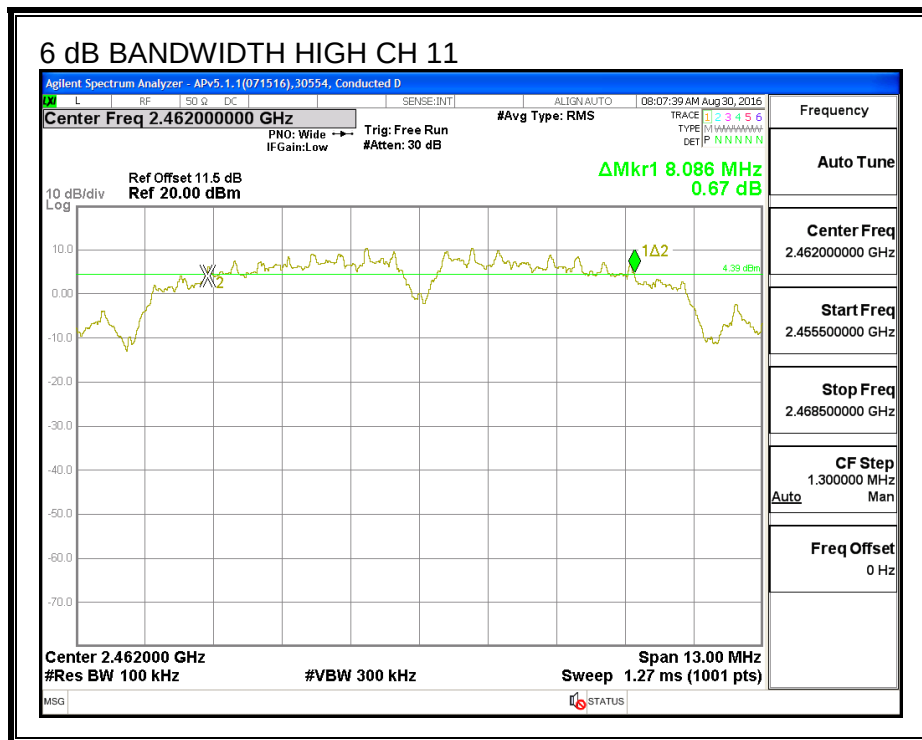
The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

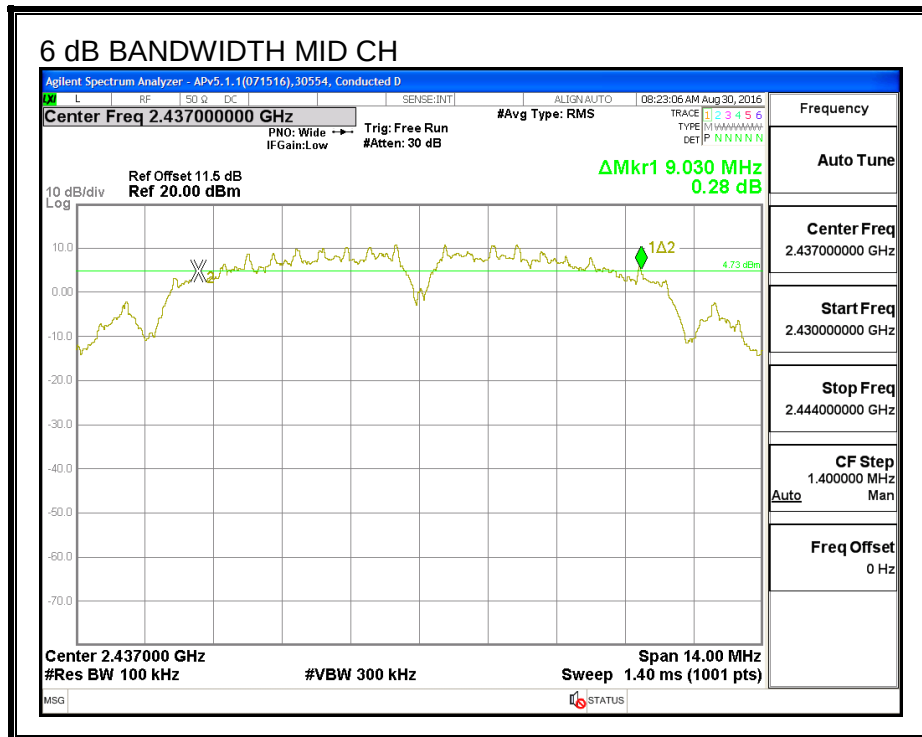
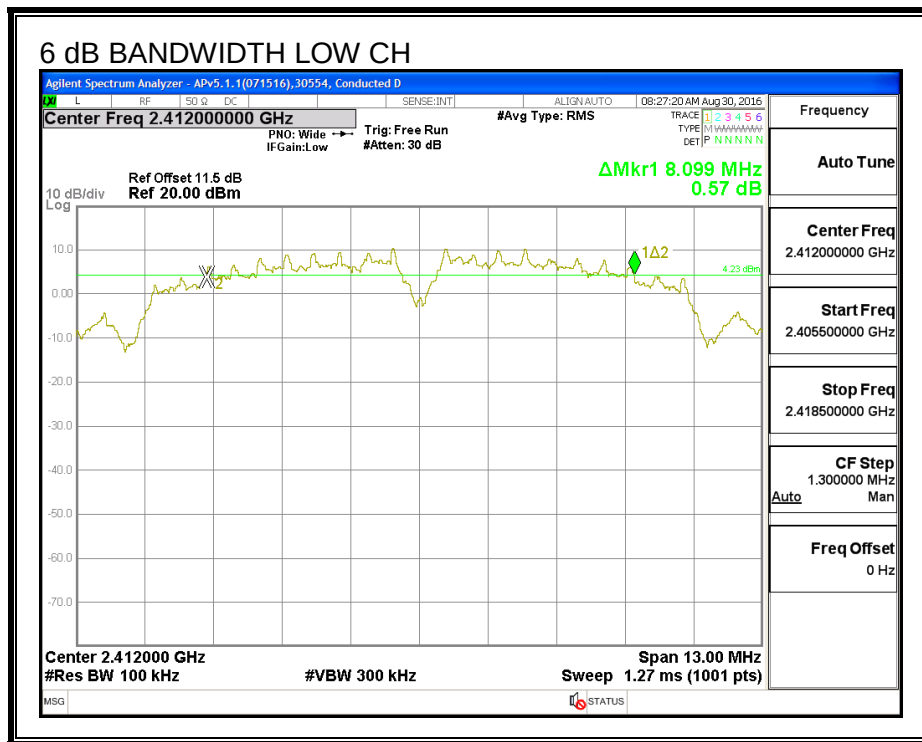
Channel	Frequency (MHz)	6 dB BW Chain 0 (MHz)	6 dB BW Chain 1 (MHz)	6 dB BW Chain 2 (MHz)	Minimum Limit (MHz)
Low	2412	8.580	8.099	8.541	0.5
Mid	2437	8.580	9.030	9.016	0.5
High_11	2462	8.086	9.044	9.058	0.5
High_12	2467	8.580	9.044	8.580	0.5

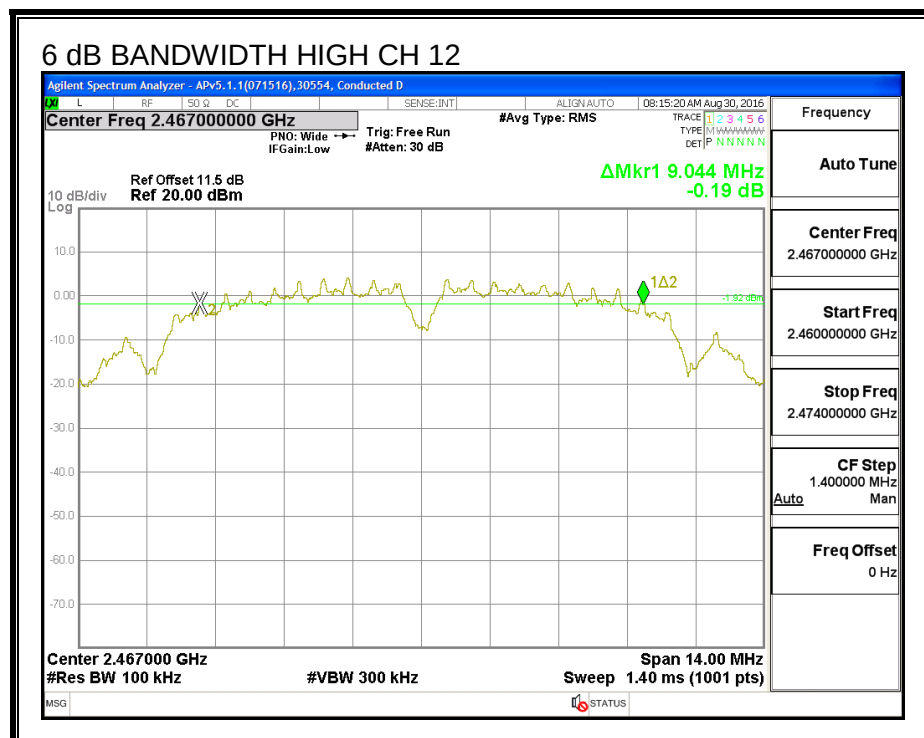
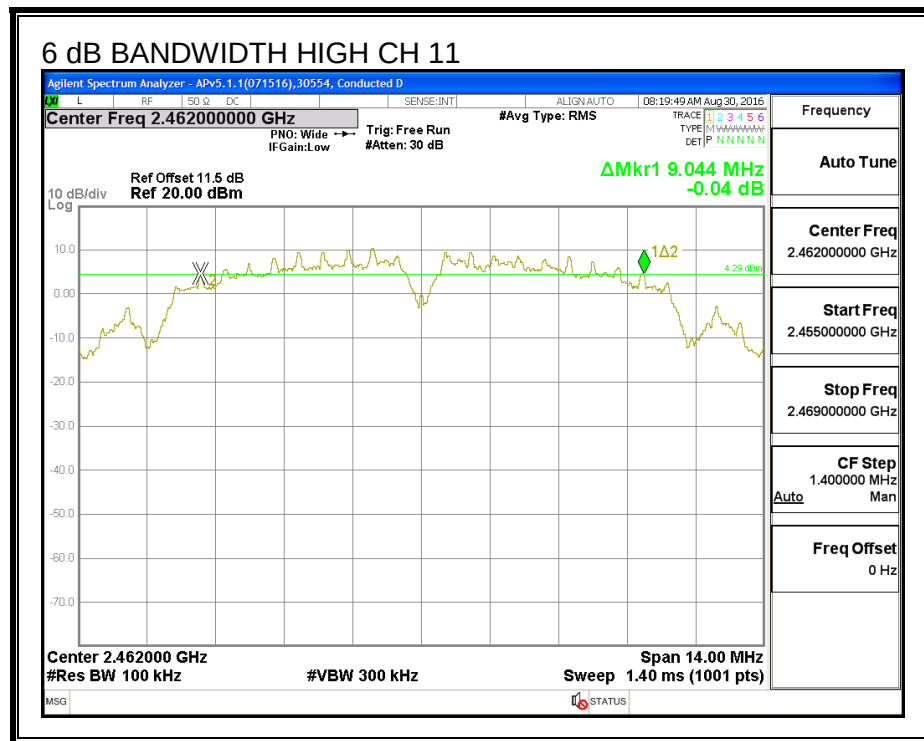
6 dB BANDWIDTH, Chain 0



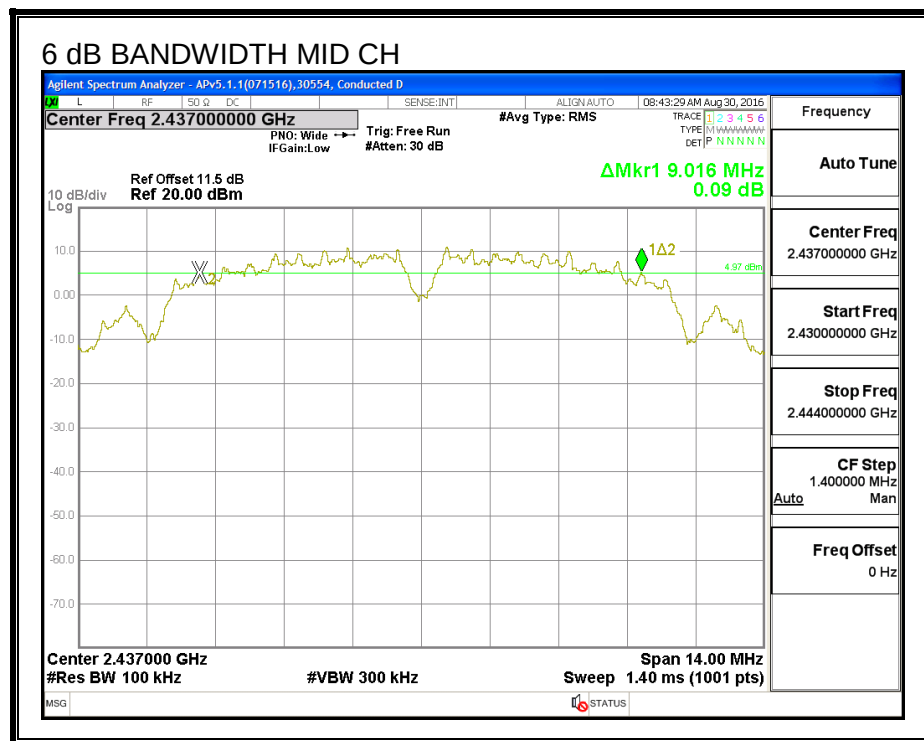
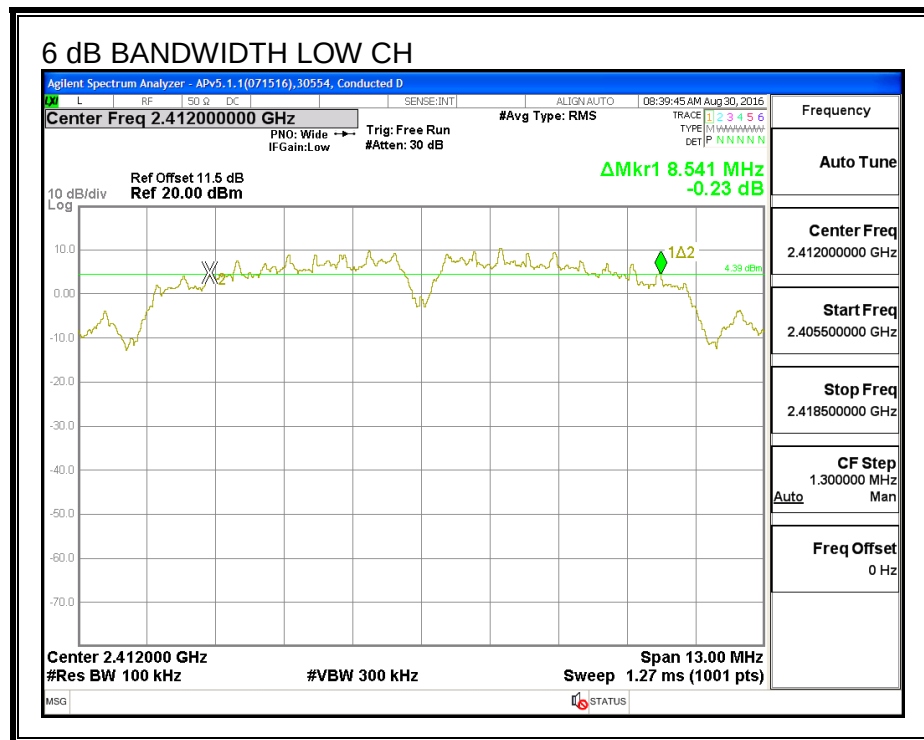


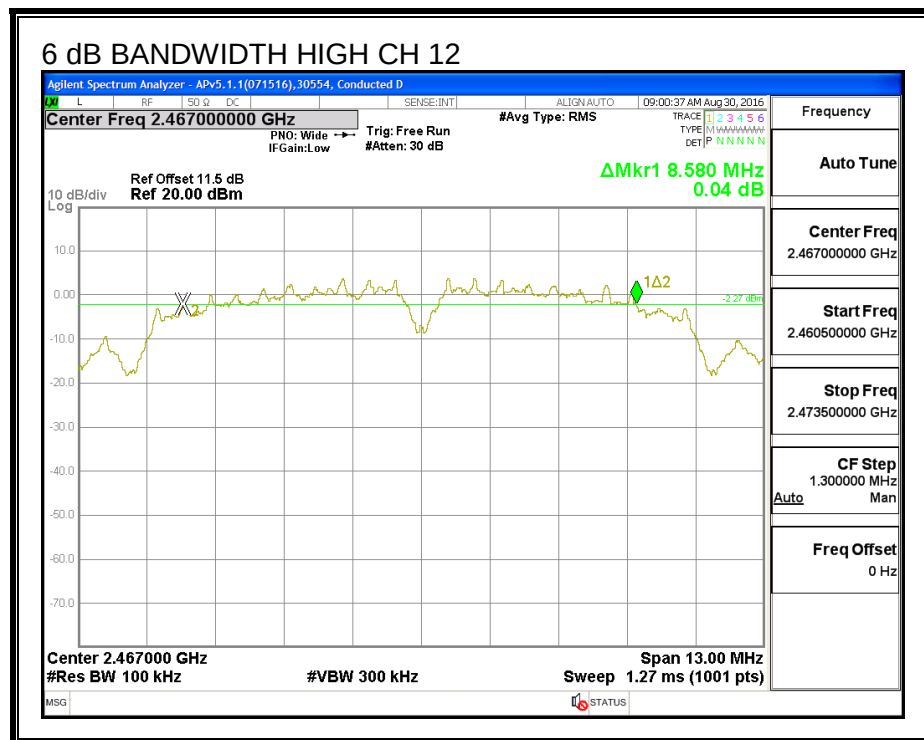
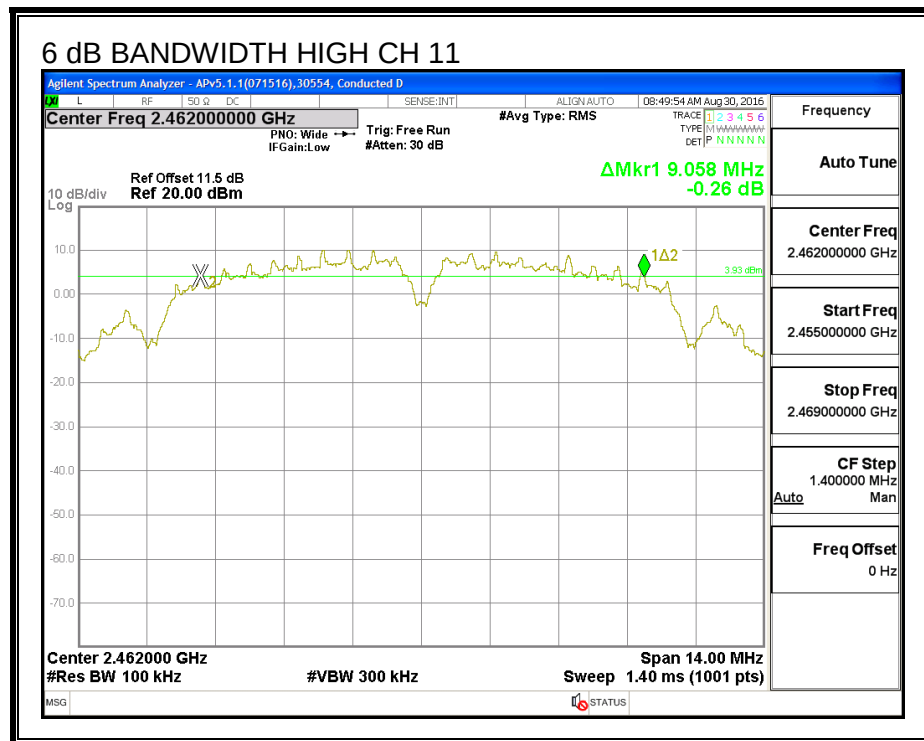
6 dB BANDWIDTH, Chain 1





6 dB BANDWIDTH, Chain 2





8.7.2. 99% BANDWIDTH

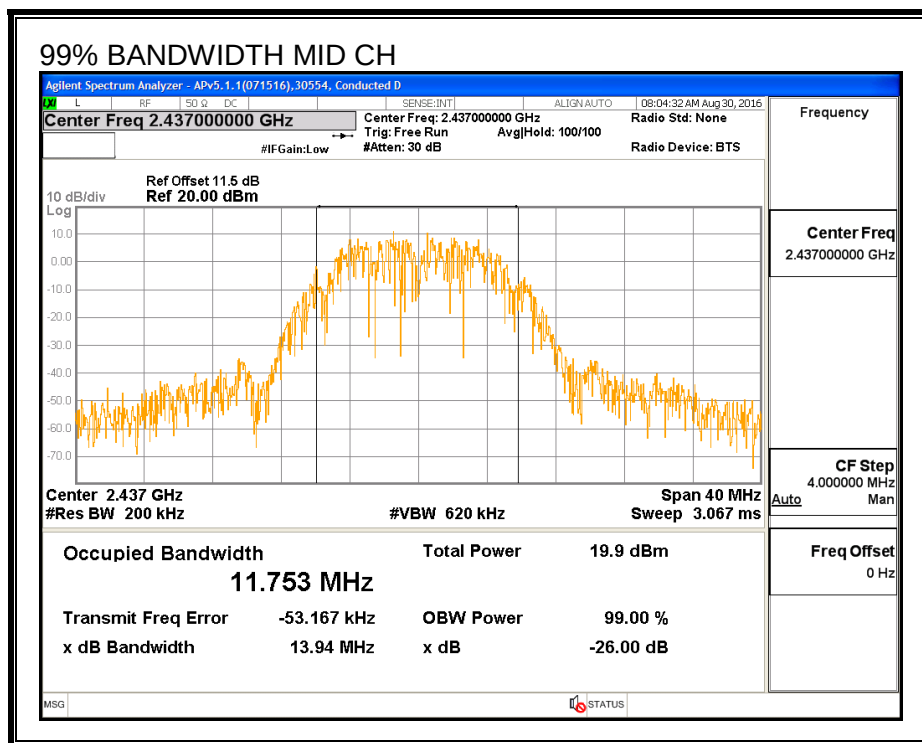
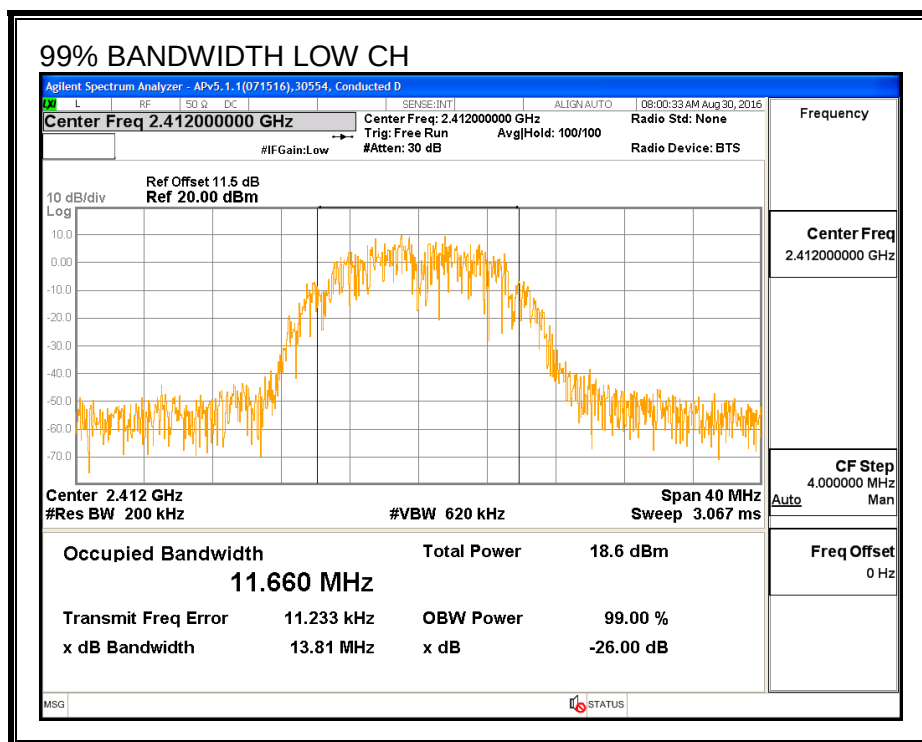
LIMITS

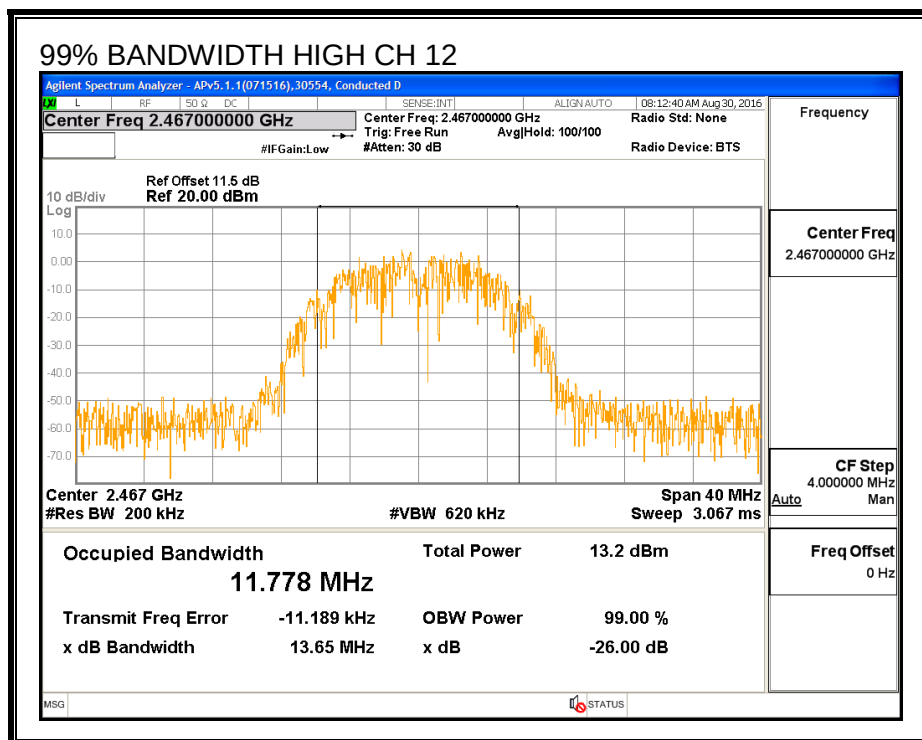
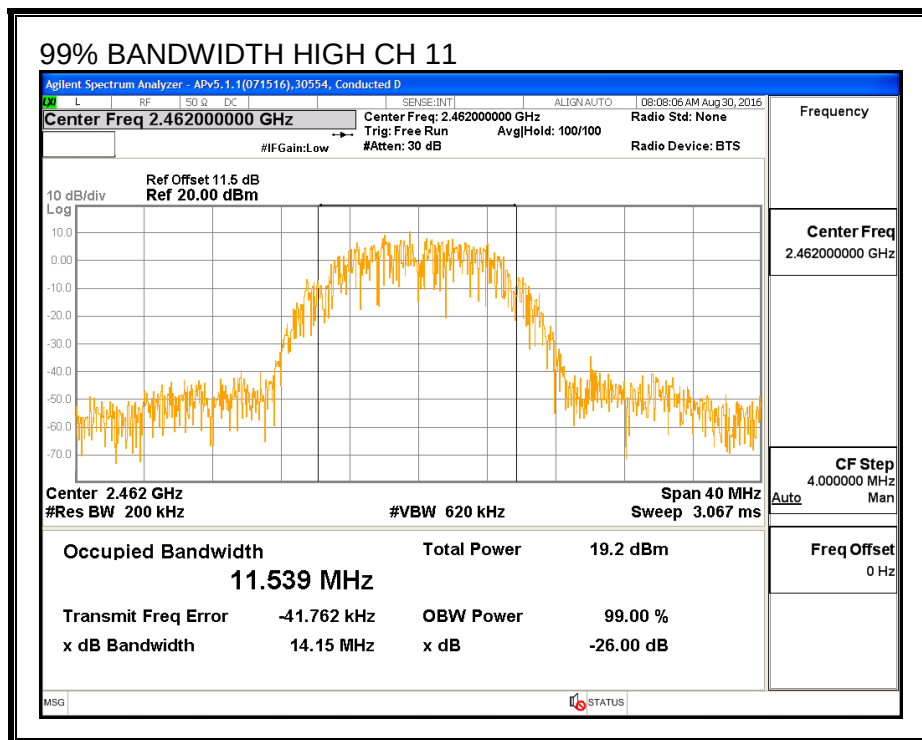
None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)	99% BW Chain 2 (MHz)
Low	2412	11.660	11.621	11.345
Mid	2437	11.753	11.641	11.435
High_11	2462	11.539	11.874	11.680
High_12	2467	11.778	11.509	11.226

99% BANDWIDTH, Chain 0





99% BANDWIDTH, Chain 1

