

9.3. 11g 2TX CDD MIMO MODE IN THE 2.4GHZ BAND

9.3.1. 6 dB BANDWIDTH

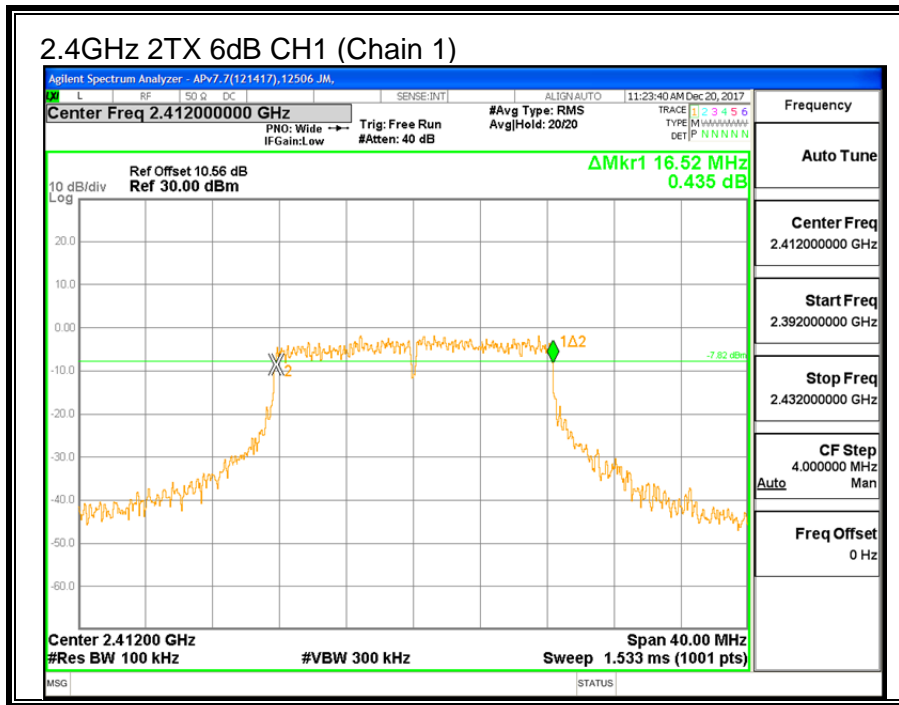
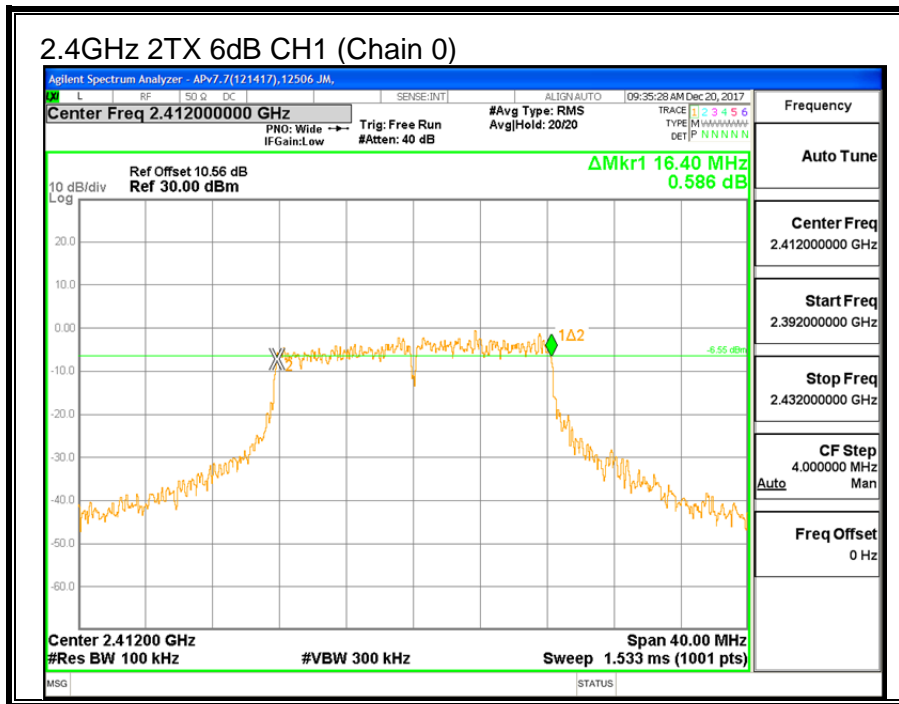
LIMITS

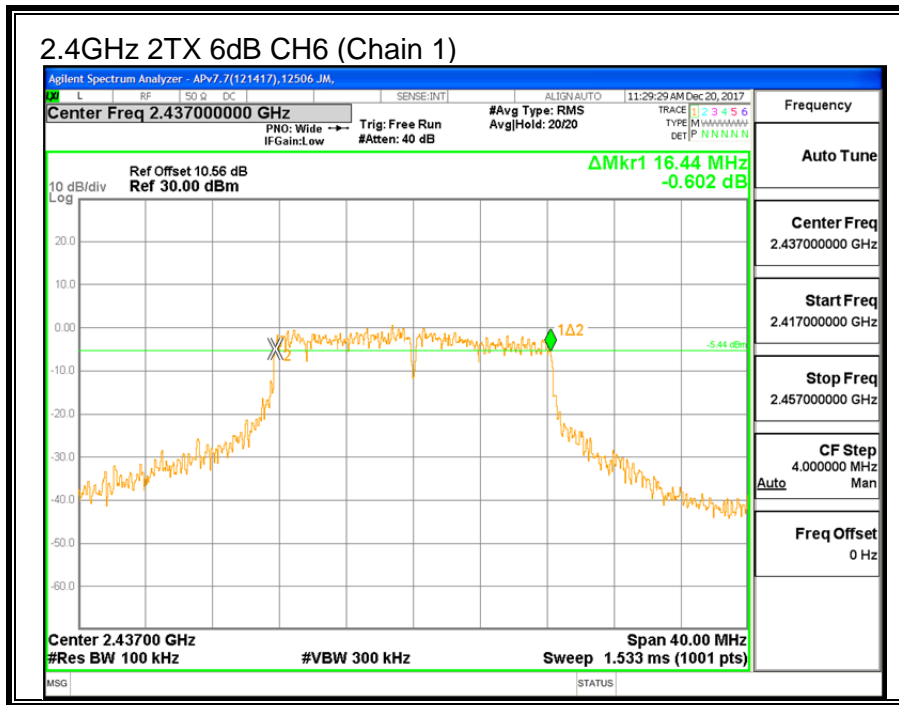
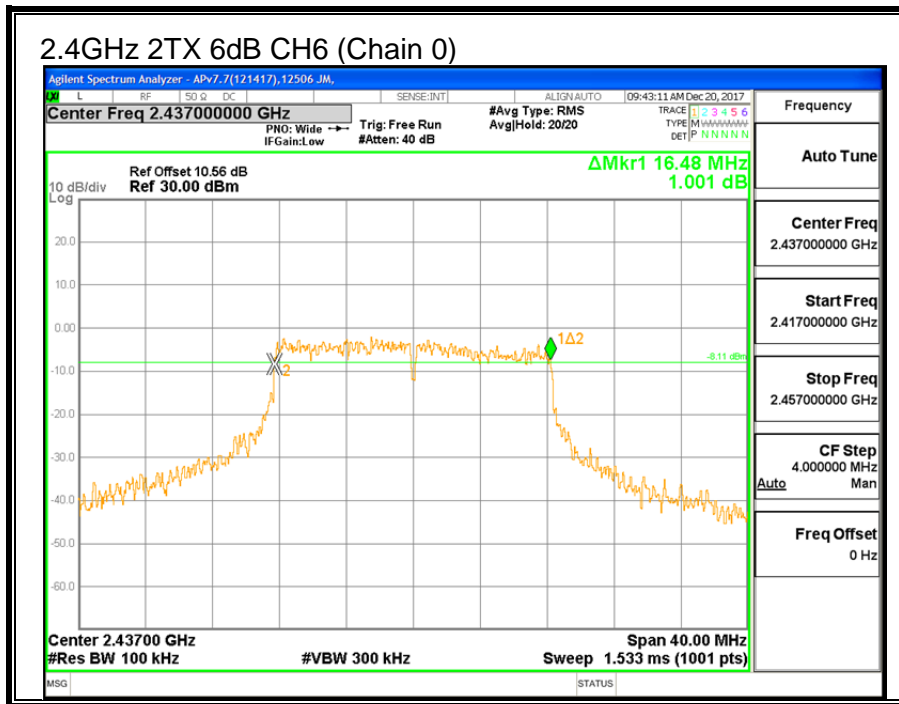
FCC §15.247 (a) (2)

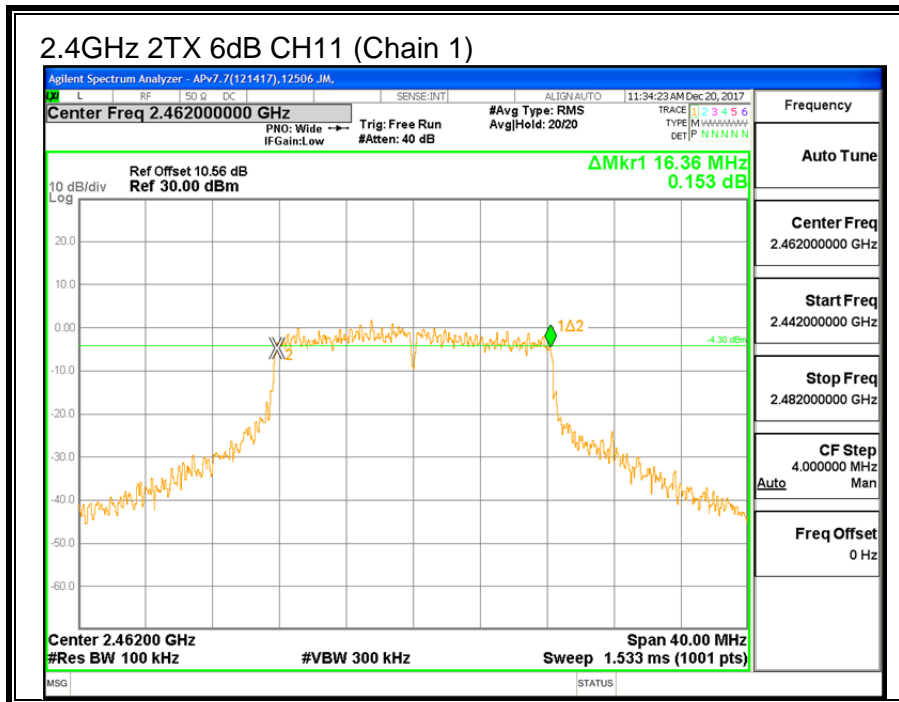
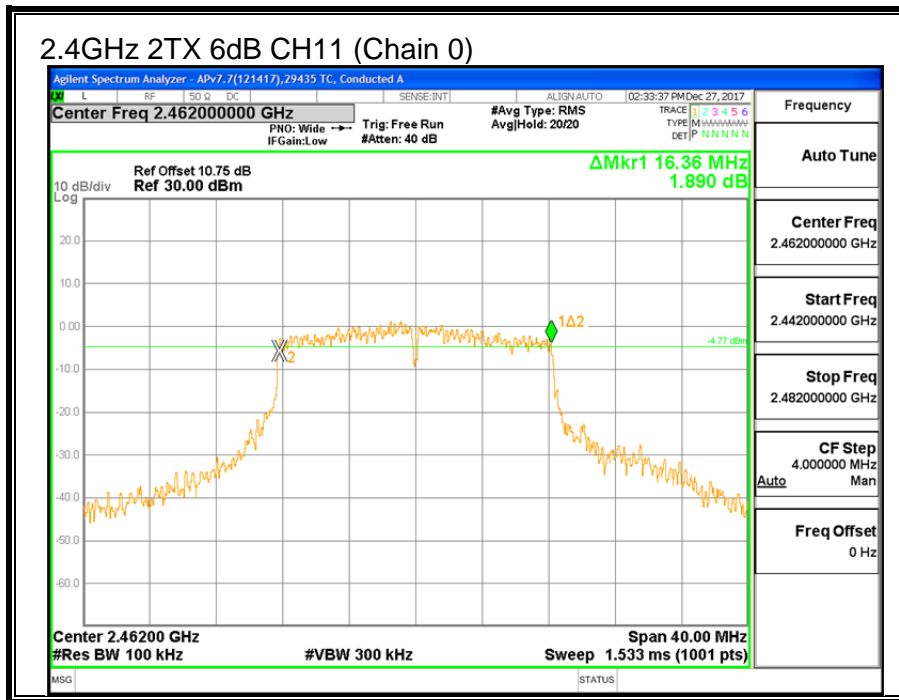
The minimum 6 dB bandwidth shall be at least 500 kHz.

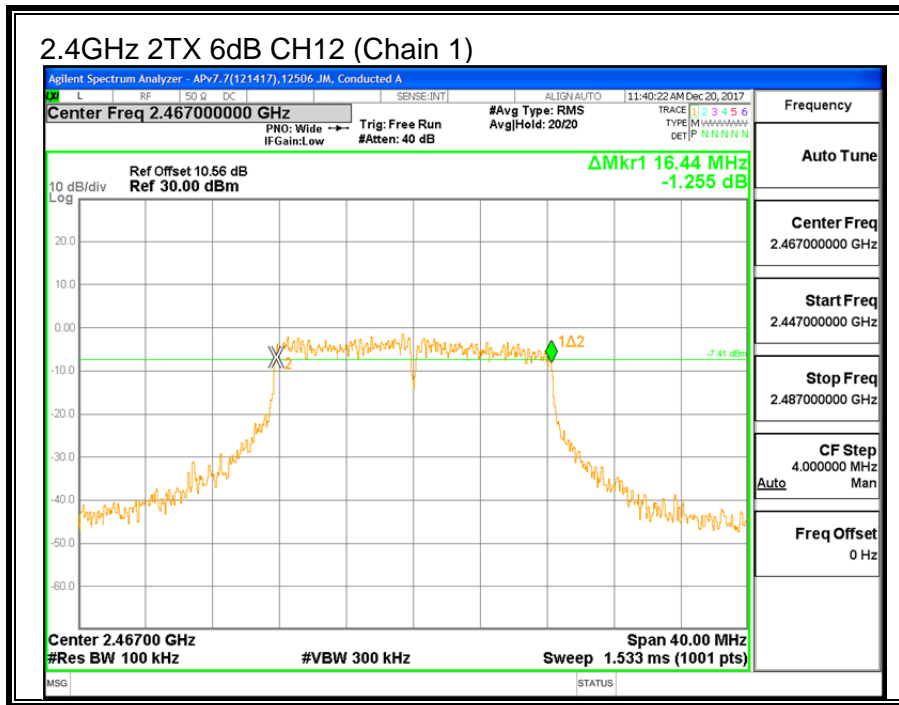
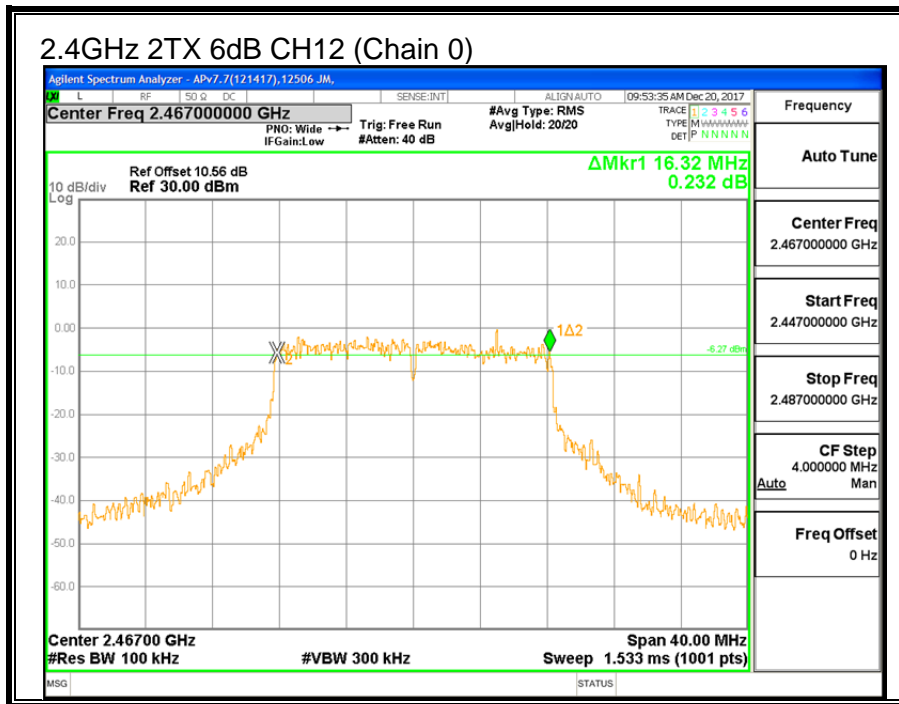
RESULTS

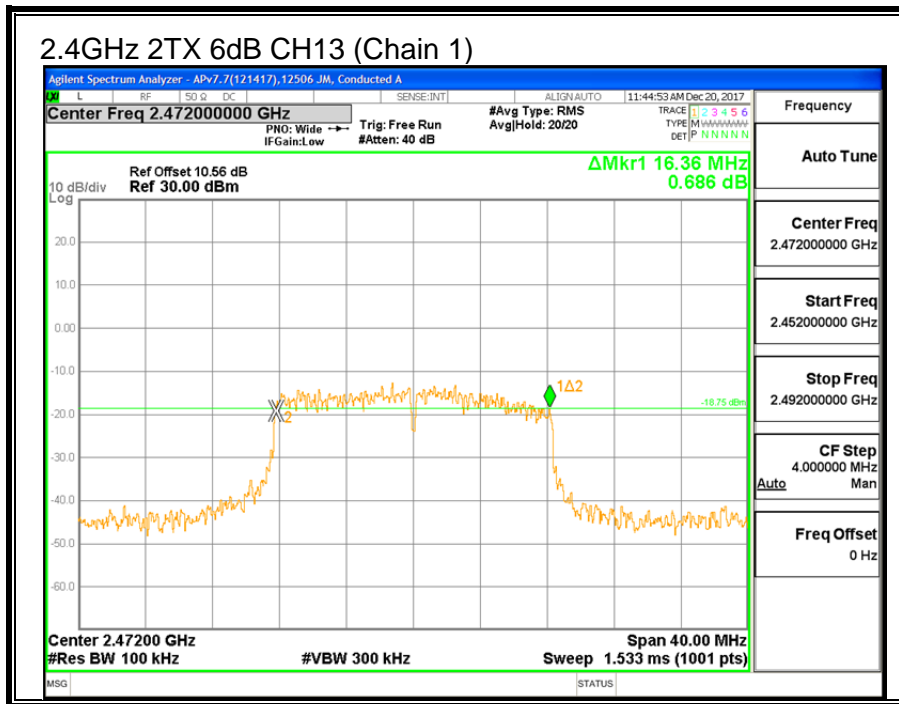
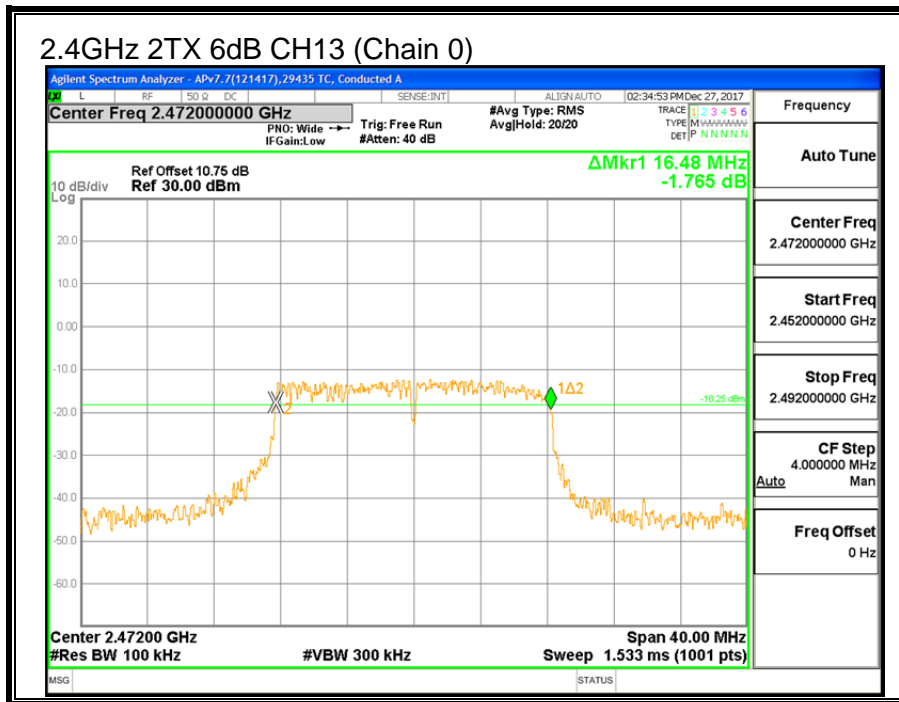
Channel	Frequency	6 dB BW Chain 0 (MHz)	6 dB BW Chain 1 (MHz)	Minimum Limit (MHz)
CH1	2412	16.40	16.52	0.5
CH6	2437	16.48	16.44	0.5
CH11	2462	16.36	16.36	0.5
CH12	2467	16.32	16.44	0.5
CH13	2472	16.48	16.36	0.5











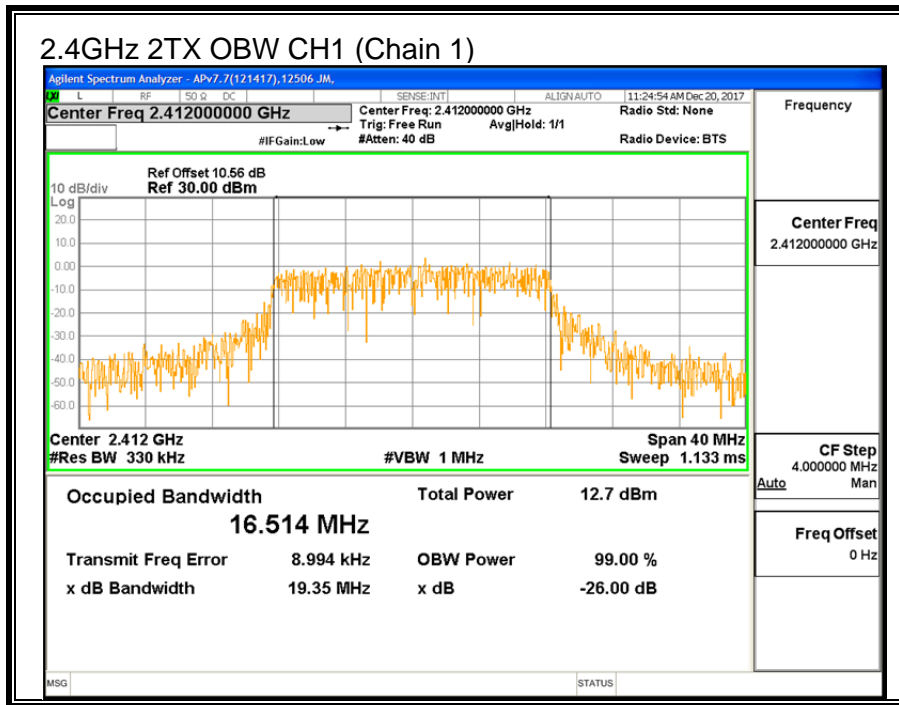
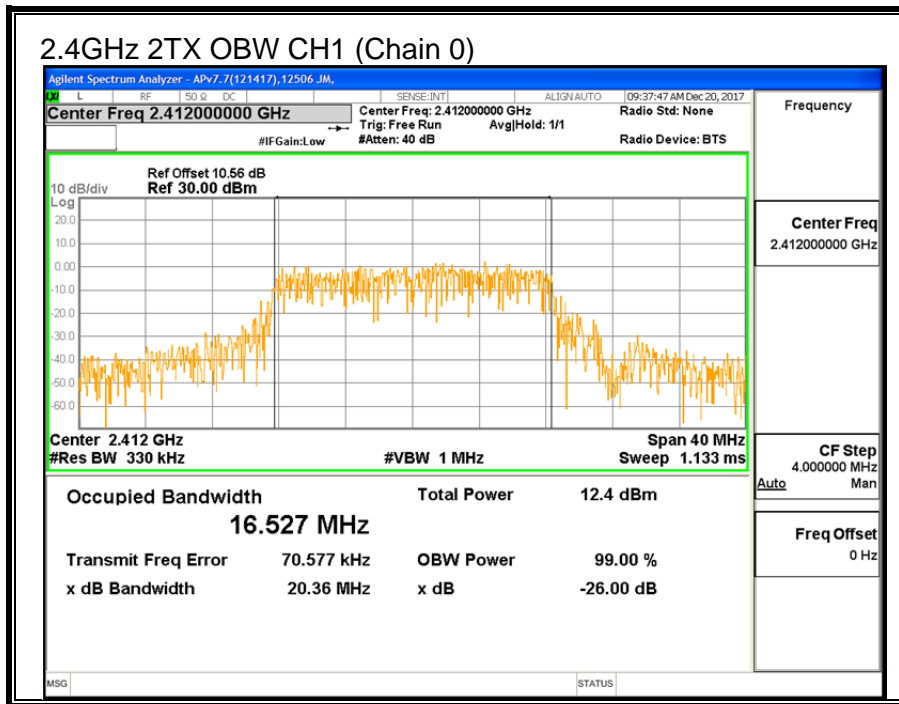
9.3.2. 99% BANDWIDTH

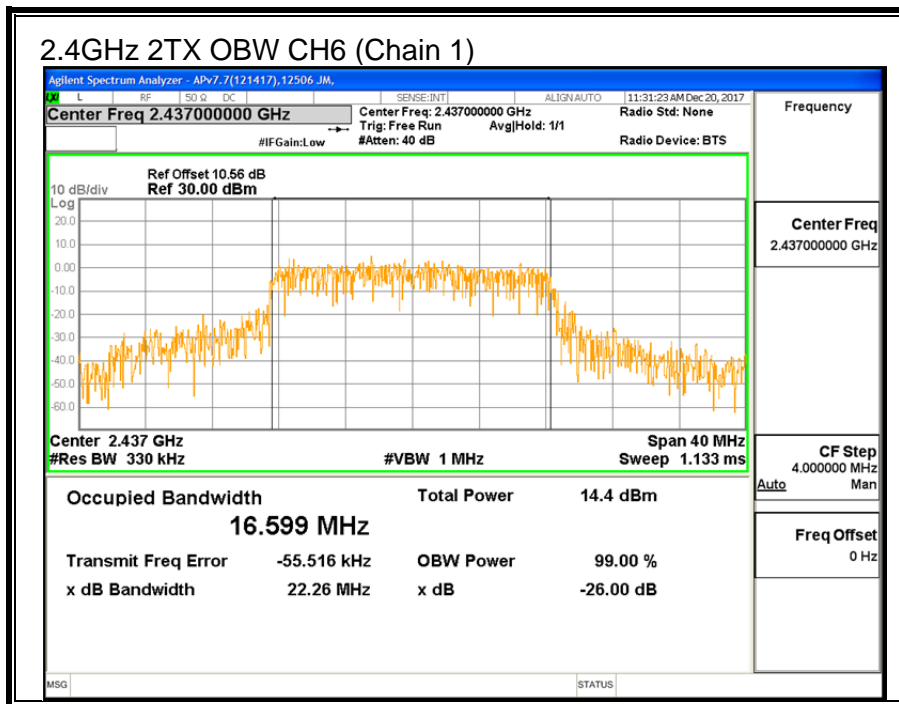
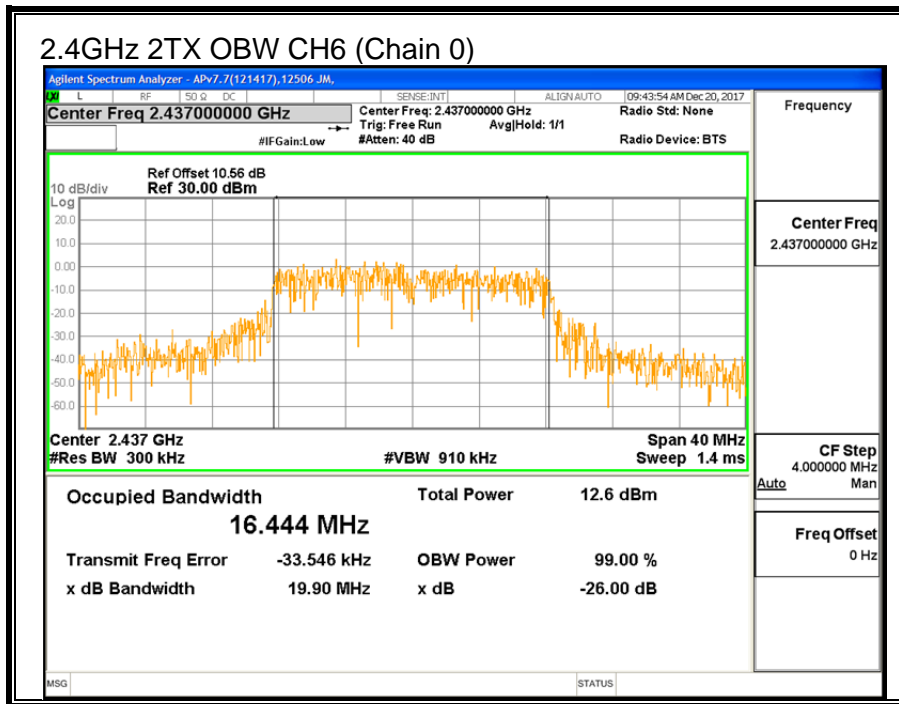
LIMITS

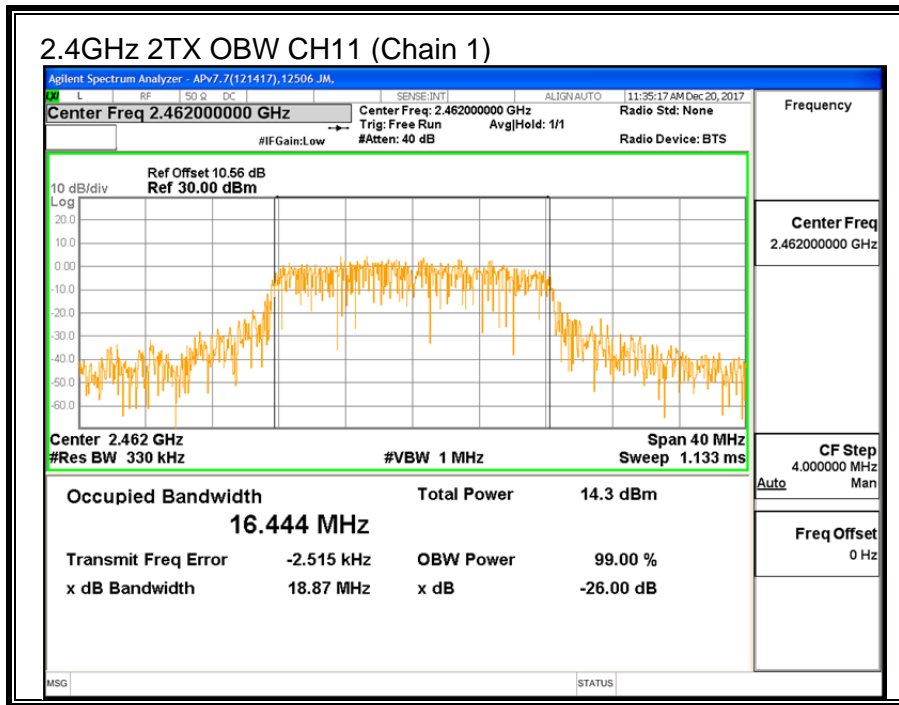
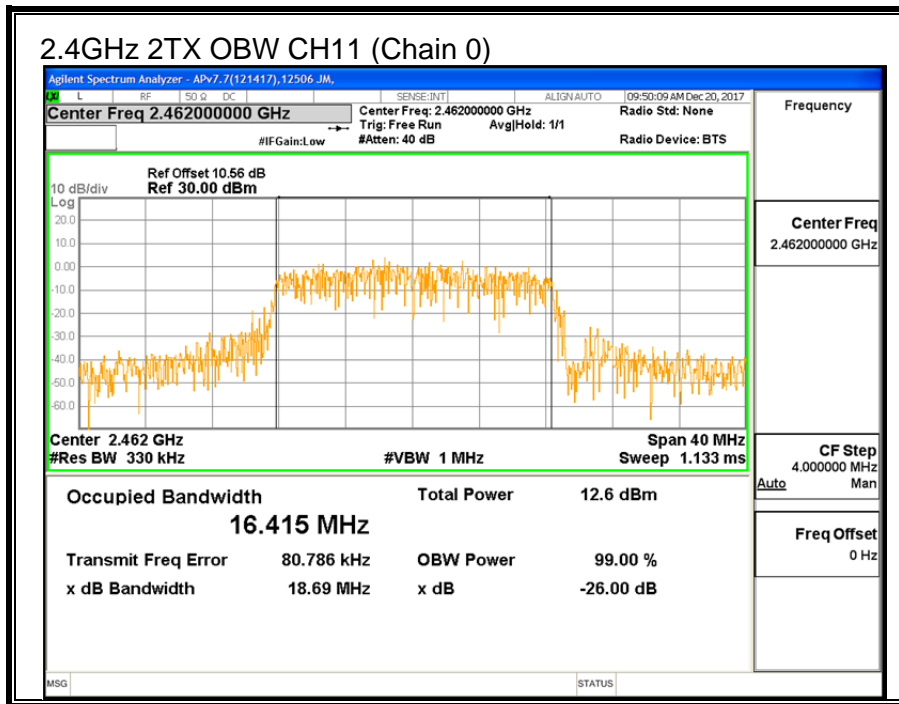
None; for reporting purposes only.

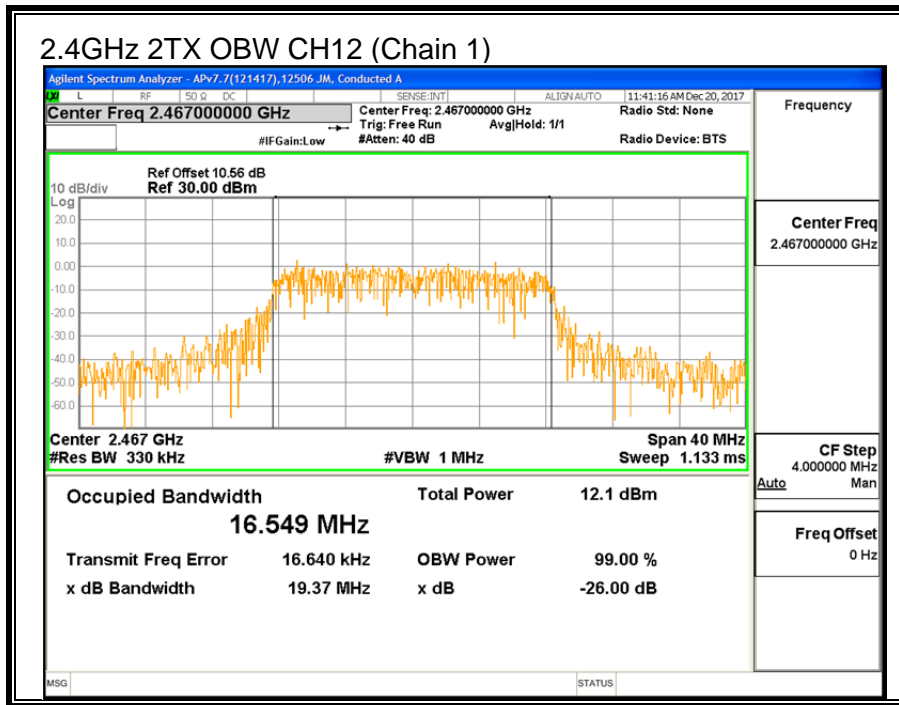
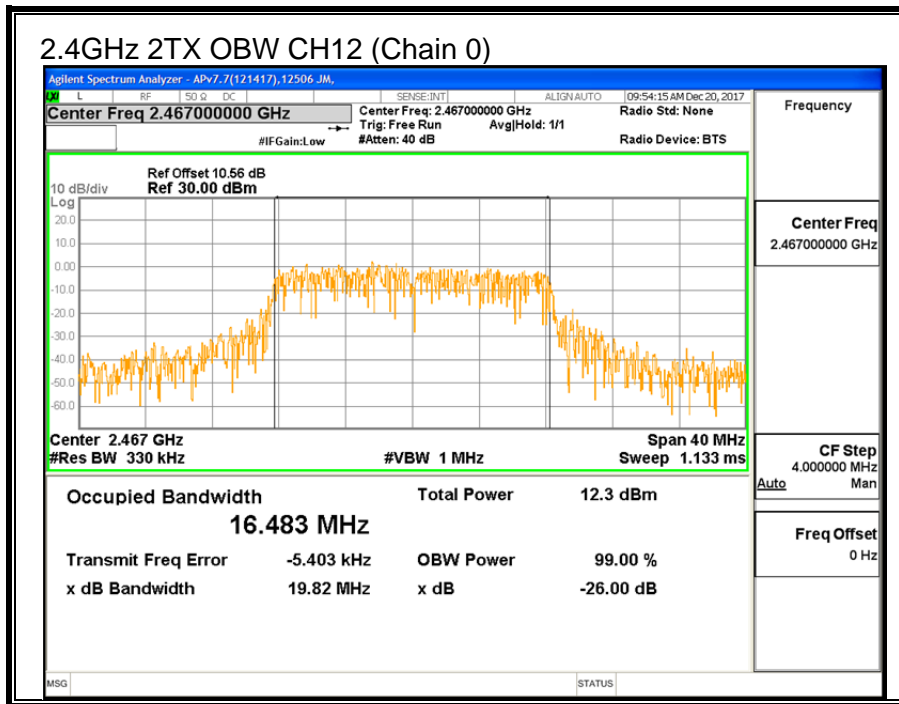
RESULTS

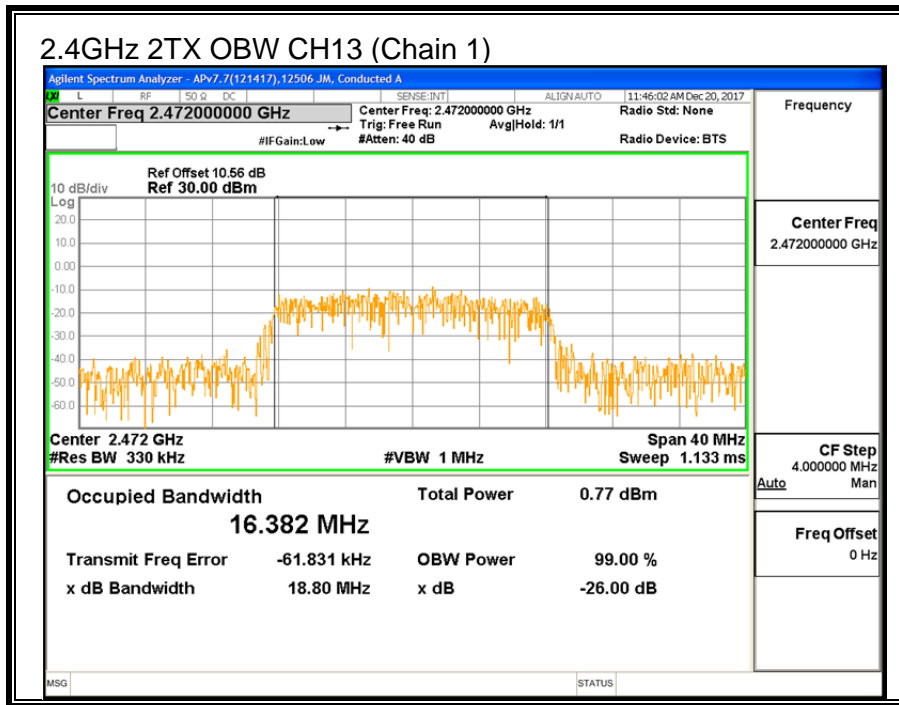
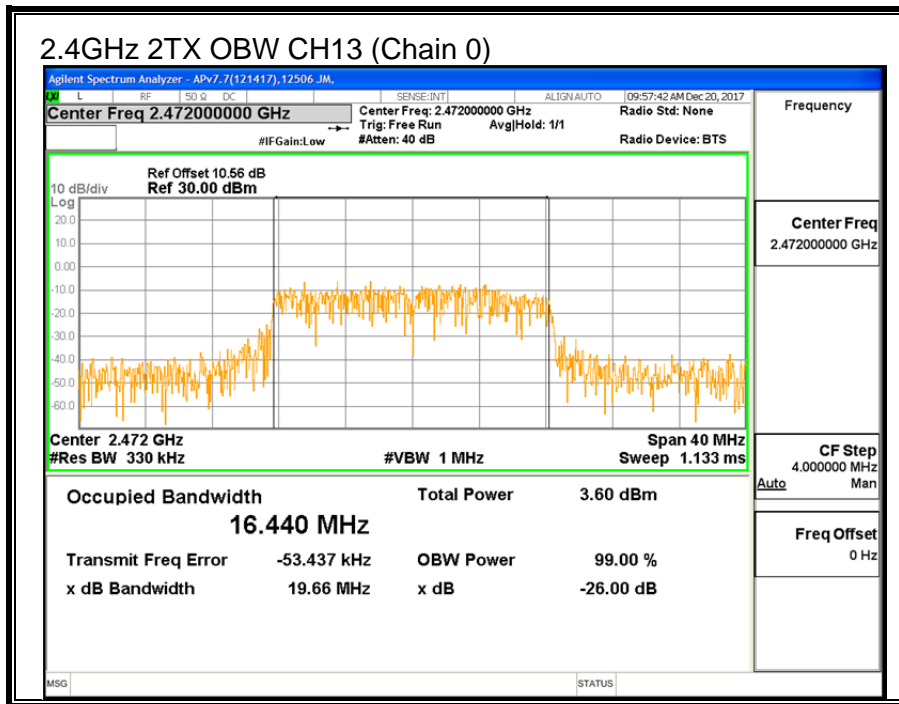
Channel	Frequency (MHz)	99% Bandwidth Chain 0 (MHz)	99% Bandwidth Chain 1 (MHz)
CH1	2412	16.527	16.514
CH6	2437	16.444	16.599
CH11	2462	16.415	16.444
CH12	2467	16.483	16.549
CH13	2472	16.440	16.382











9.3.3. OUTPUT POWER

LIMITS

FCC §15.247 (b) (3)

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.

TEST PROCEDURE

KDB 58074 D01 v04 Section 9.2.3.2

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 1 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
-3.94	-9.83	-5.95

RESULTS

ID:	JM12056	Date:	12/19/17
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Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
CH1	2412	-5.95	30.00	30	36	30.00
CH6	2437	-5.95	30.00	30	36	30.00
CH11	2462	-5.95	30.00	30	36	30.00
CH12	2467	-5.95	30.00	30	36	30.00
CH13	2472	-5.95	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
CH1	2412	12.35	13.02	15.71	30.00	-14.29
CH6	2437	12.39	14.53	16.60	30.00	-13.40
CH11	2462	12.27	14.70	16.66	30.00	-13.34
CH12	2467	12.33	12.60	15.48	30.00	-14.52
CH13	2472	3.55	1.01	5.47	30.00	-24.53

Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

9.3.4. POWER SPECTRAL DENSITY

LIMITS

FCC §15.247 (e)

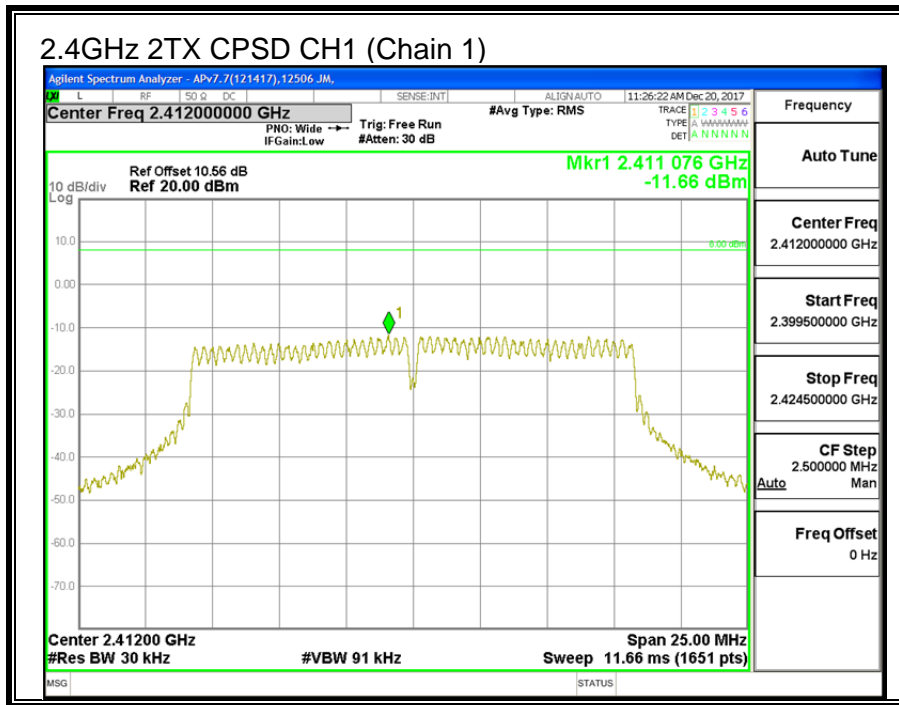
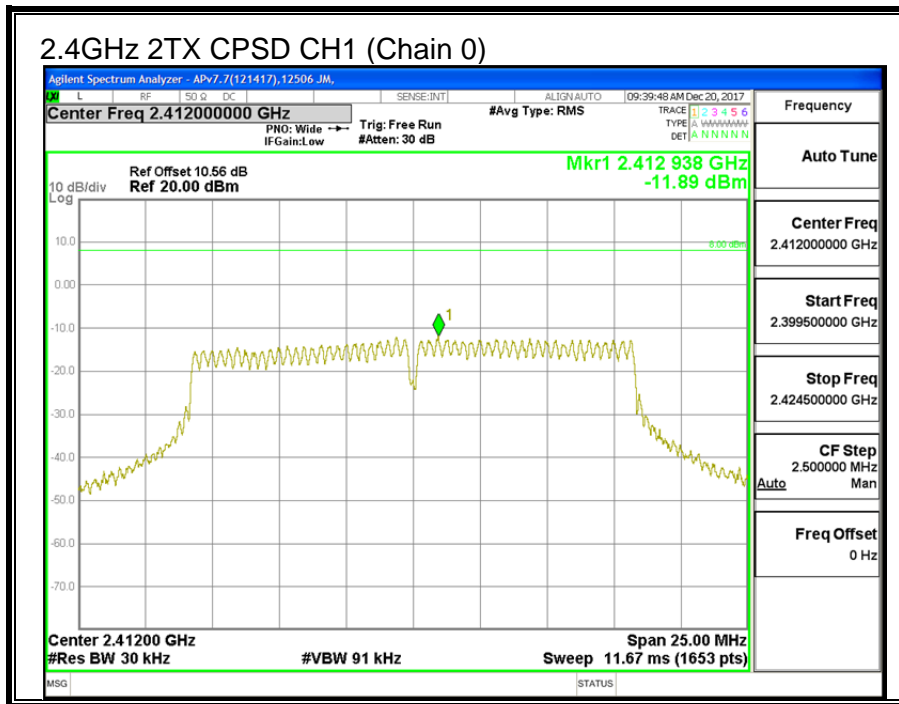
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 KHz band during any time interval of continuous transmissions.

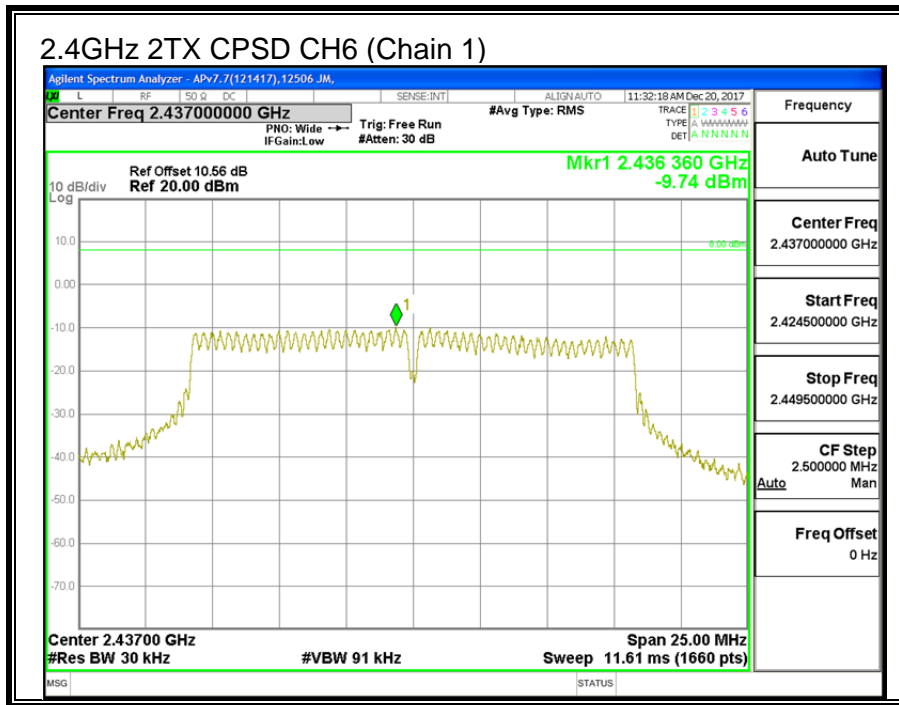
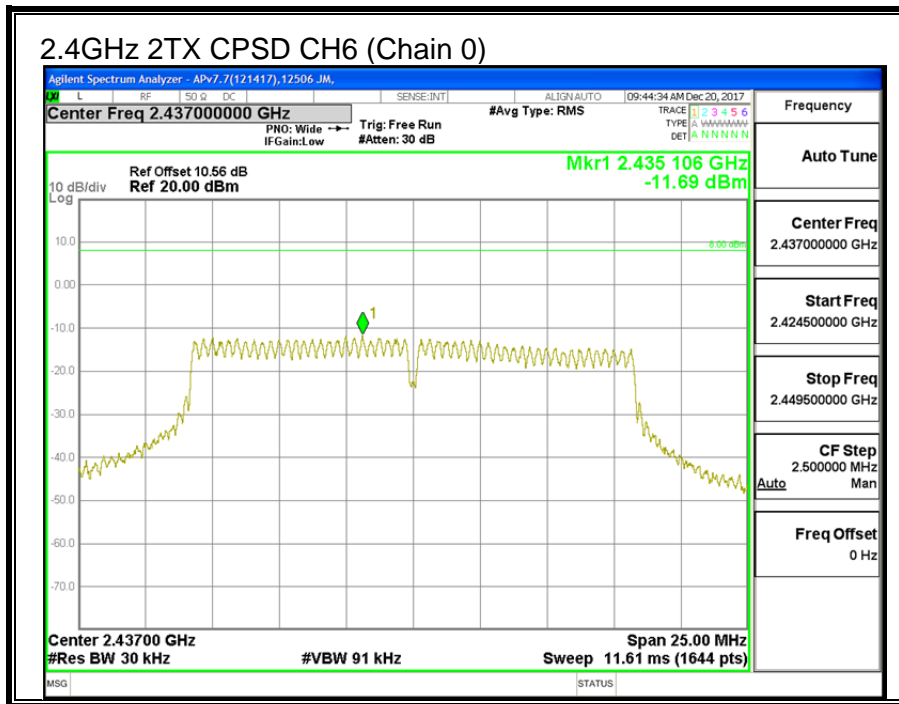
RESULTS

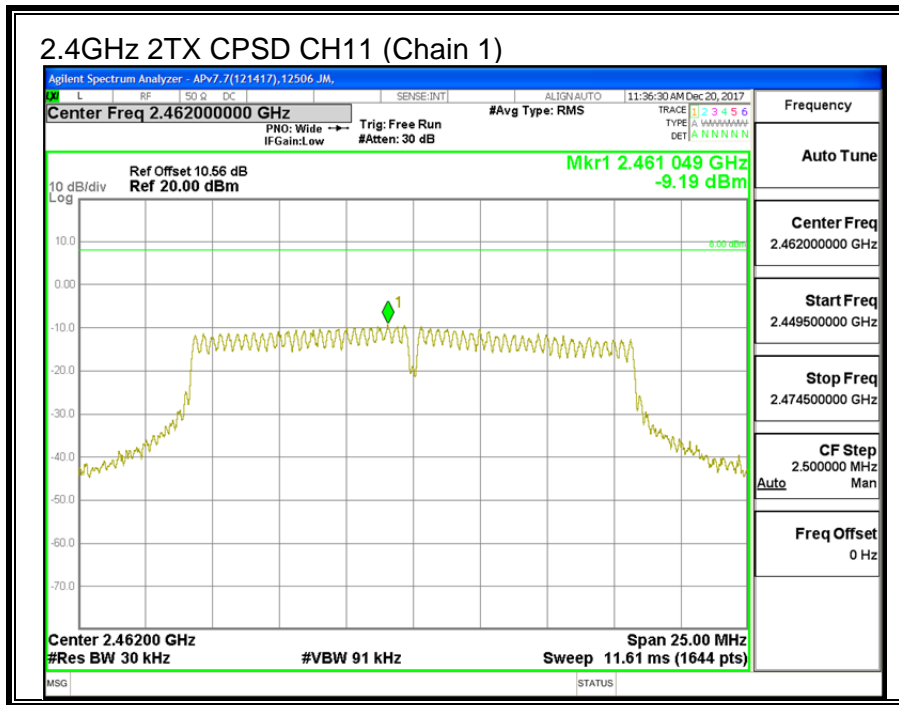
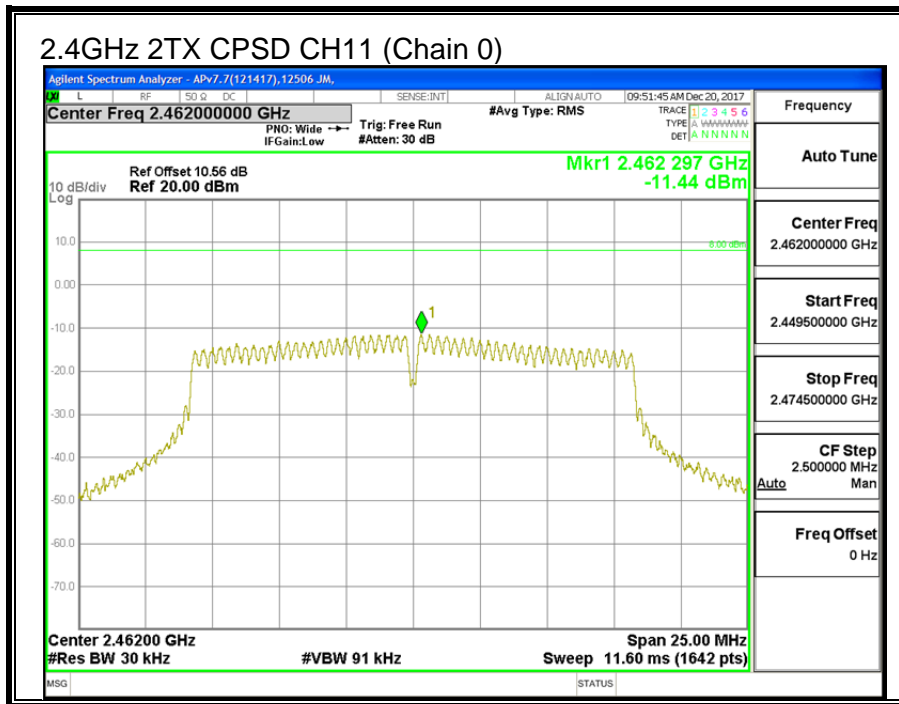
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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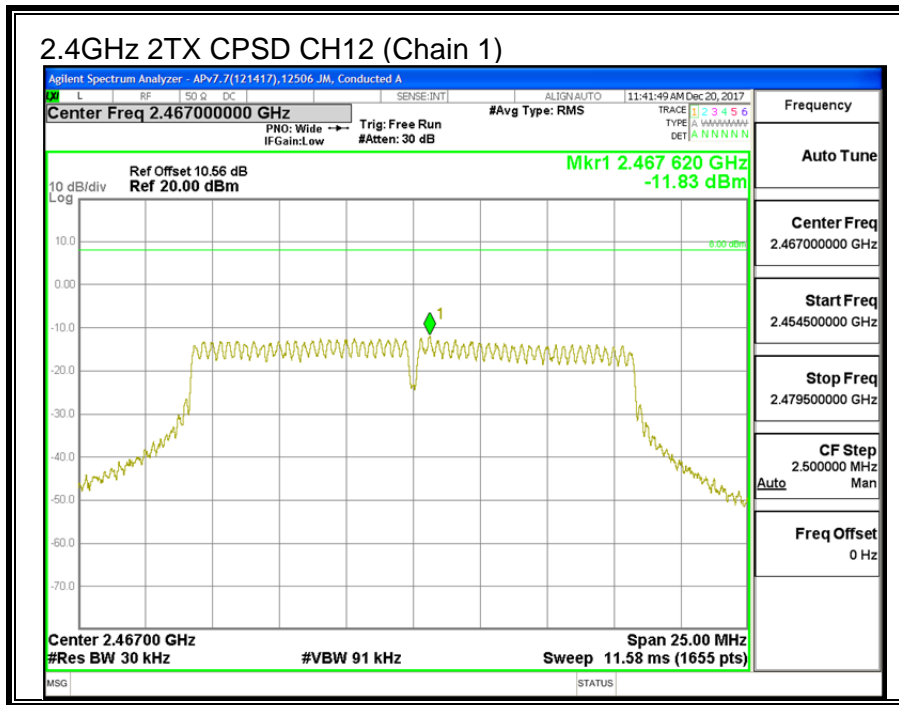
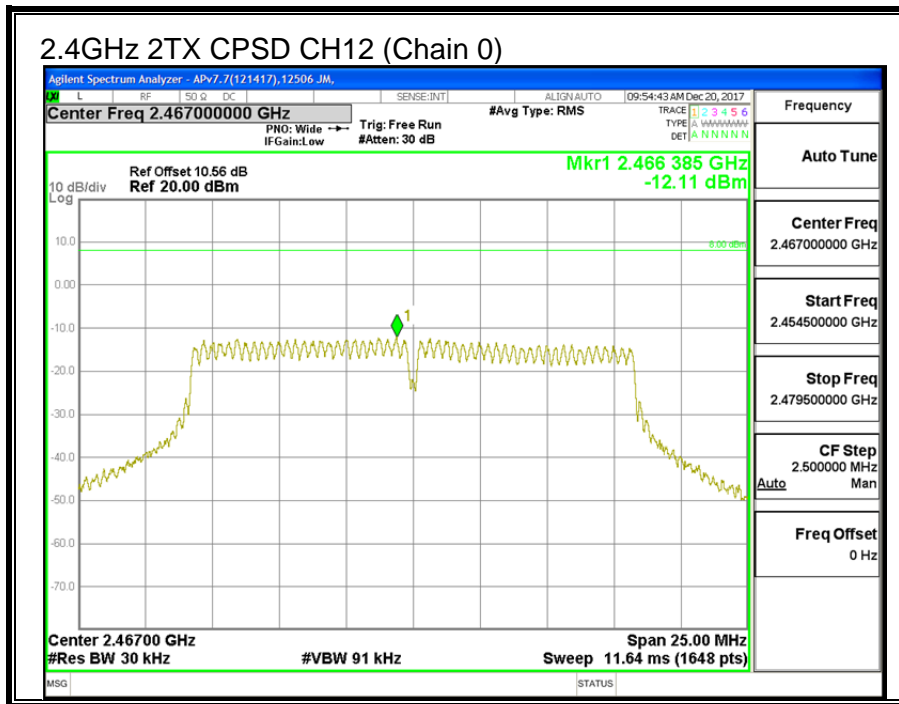
PSD Results

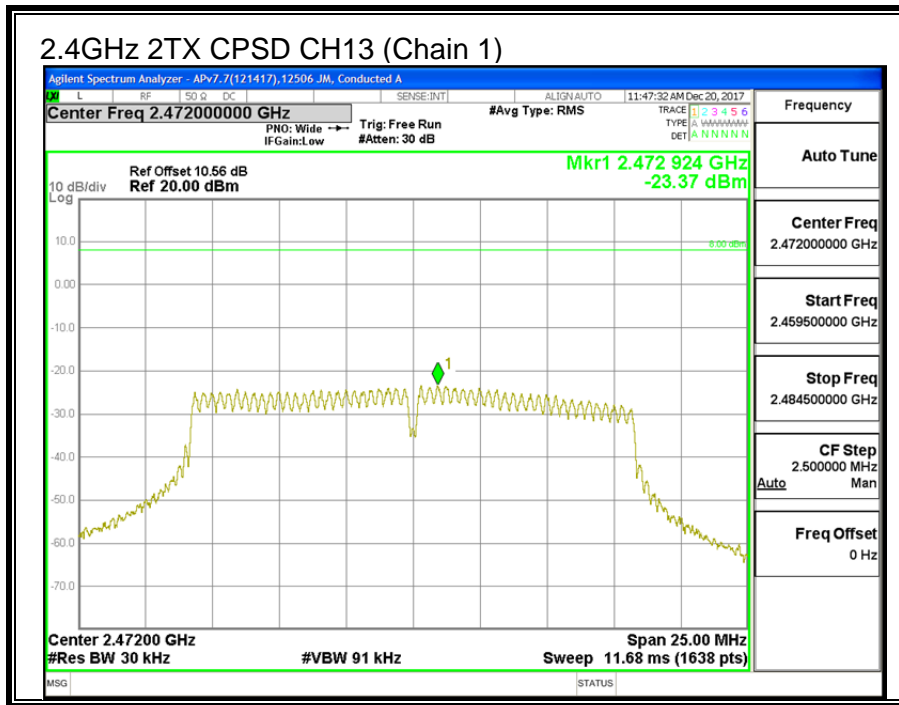
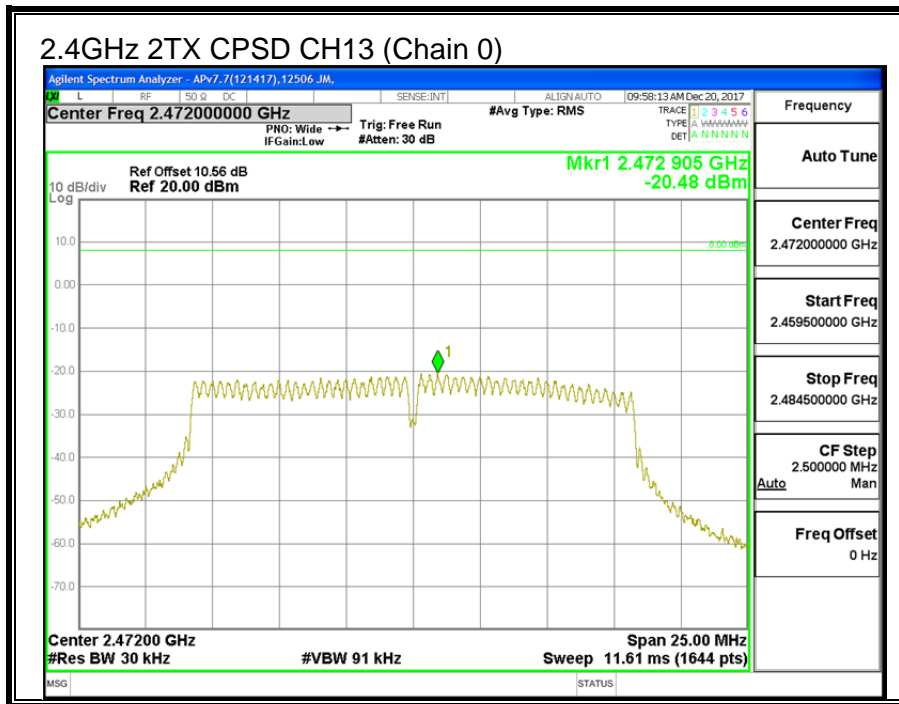
Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Chain 1 Meas (dBm)	Total Corr'd PSD (dBm)	Limit (dBm)	Margin (dB)
CH1	2412	-11.89	-11.66	-8.76	8.0	-16.8
CH6	2437	-11.69	-9.74	-7.60	8.0	-15.6
CH11	2462	-11.44	-9.19	-7.16	8.0	-15.2
CH12	2467	-12.11	-11.83	-8.96	8.0	-17.0
CH13	2472	-20.48	-23.37	-18.68	8.0	-26.7











9.3.5. CONDUCTED BANEDGE AND SPURIOUS EMISSIONS

