

8.6. 802.11n HT20 SISO MODE IN THE 2.4 GHz BAND, CHAIN 1

8.6.1. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

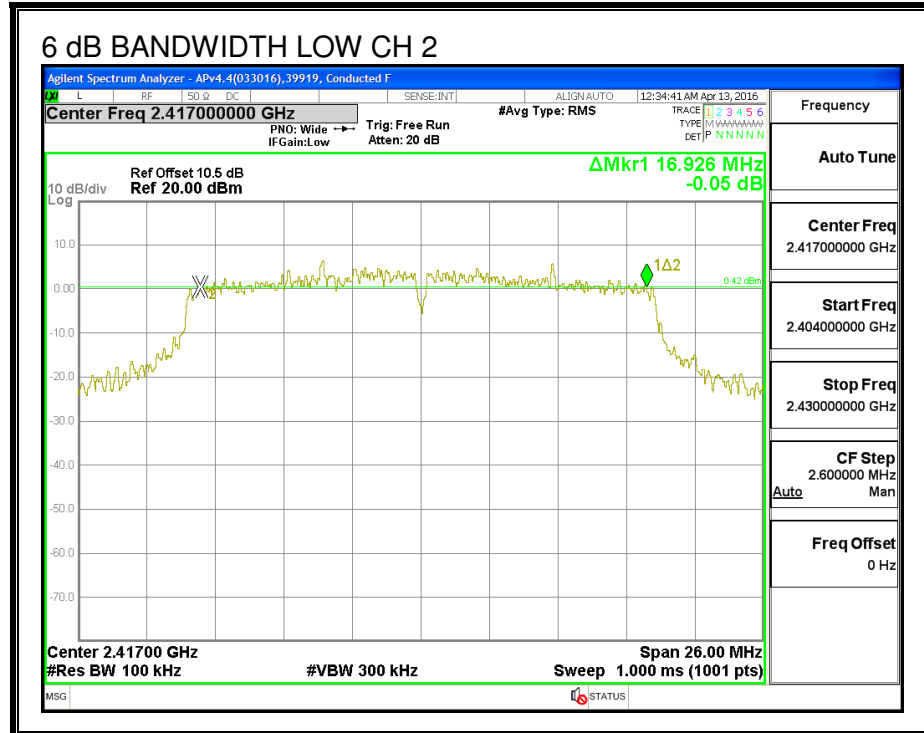
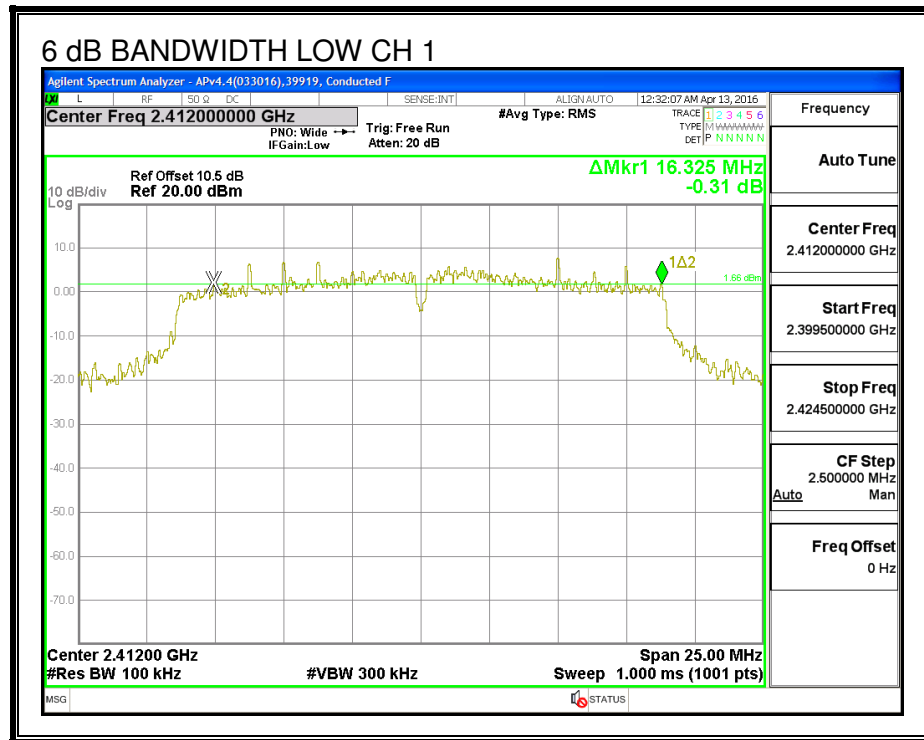
IC RSS-247 (5.2) (1)

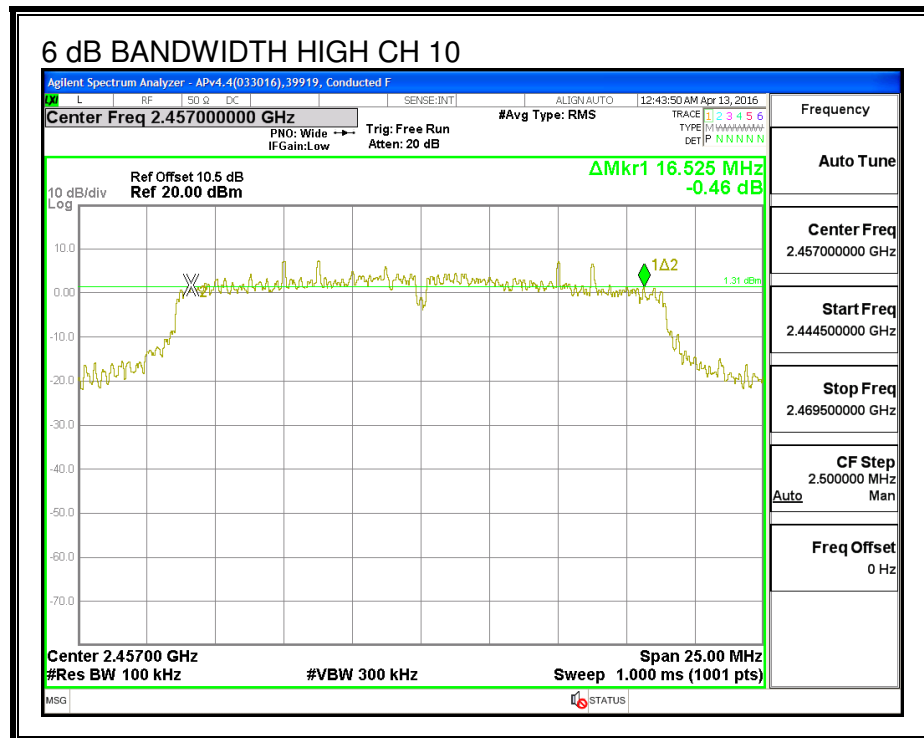
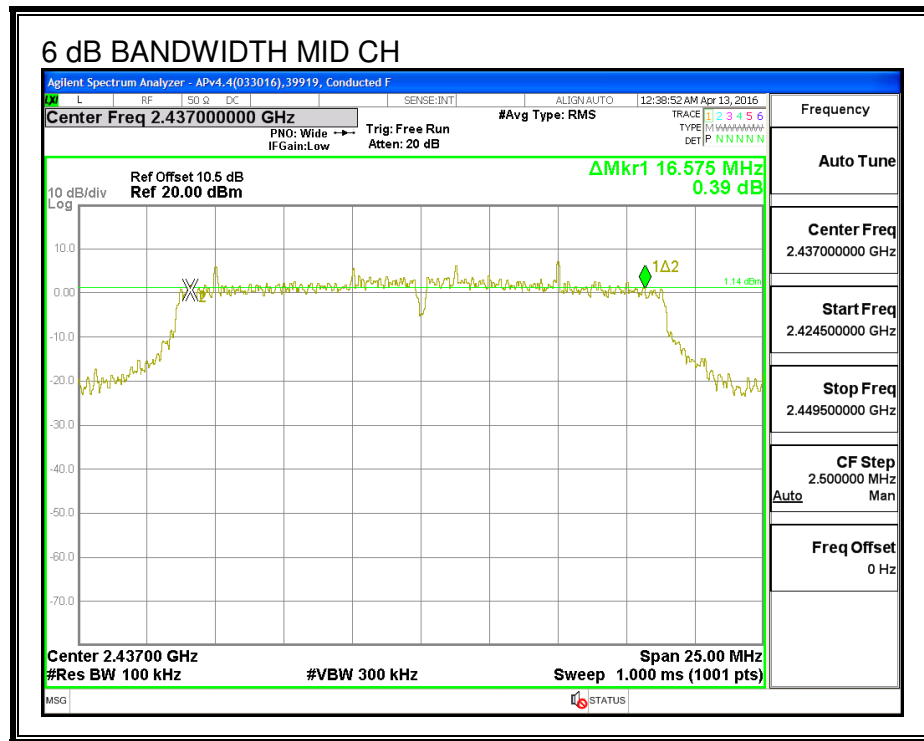
The minimum 6 dB bandwidth shall be at least 500 kHz.

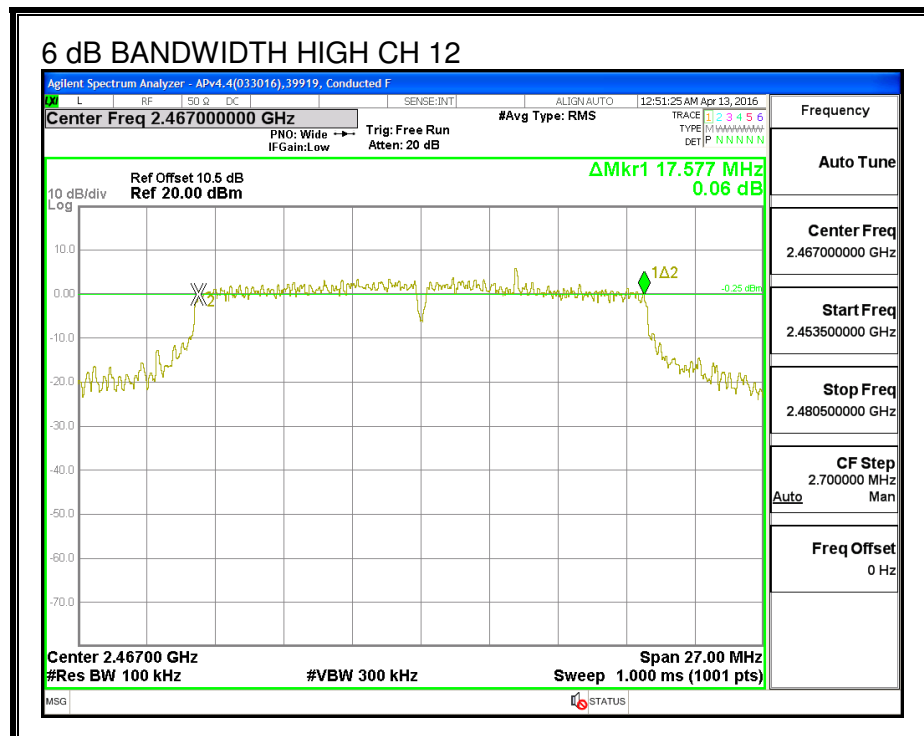
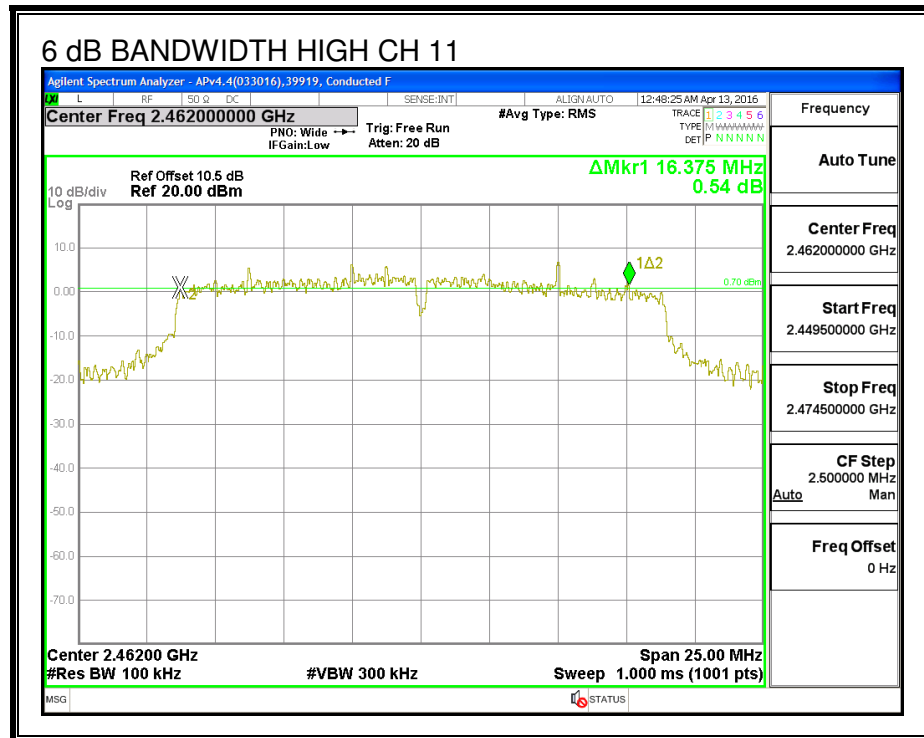
RESULTS

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low_1	2412	16.325	0.5
Low_2	2417	16.926	0.5
Mid_6	2437	16.575	0.5
High_10	2457	16.525	0.5
High_11	2462	16.375	0.5
High_12	2467	17.577	0.5
High_13	2472	16.650	0.5

6 dB BANDWIDTH









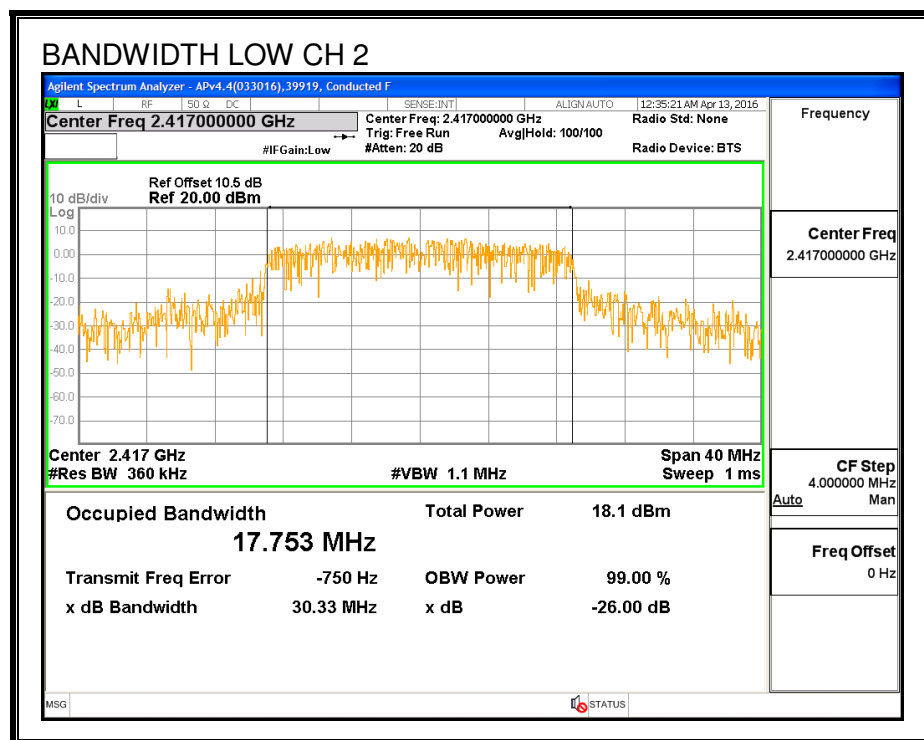
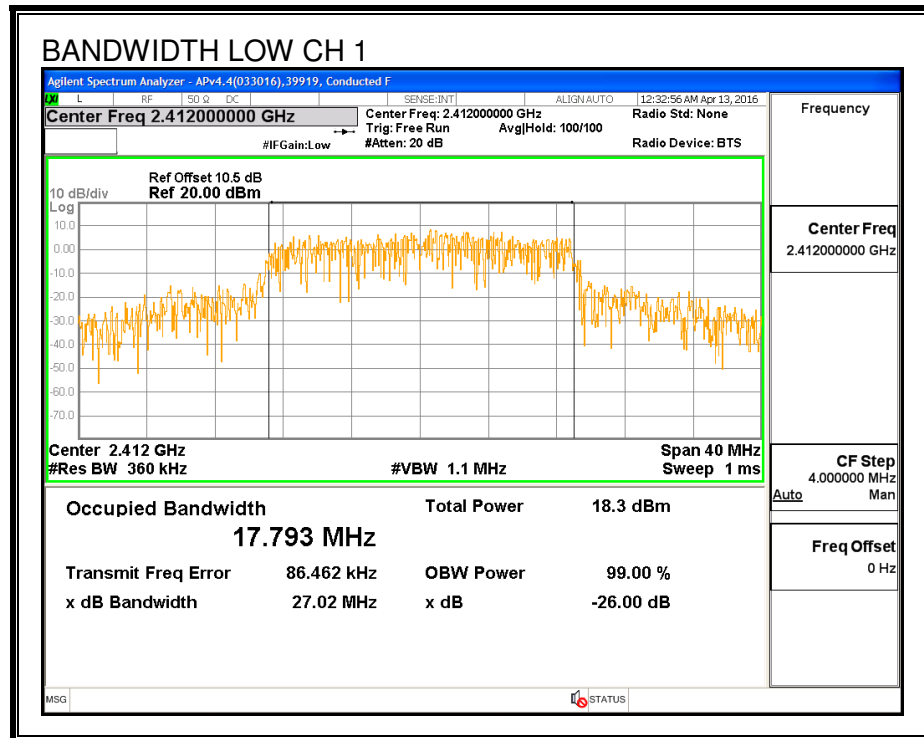
8.6.2. 99% BANDWIDTH

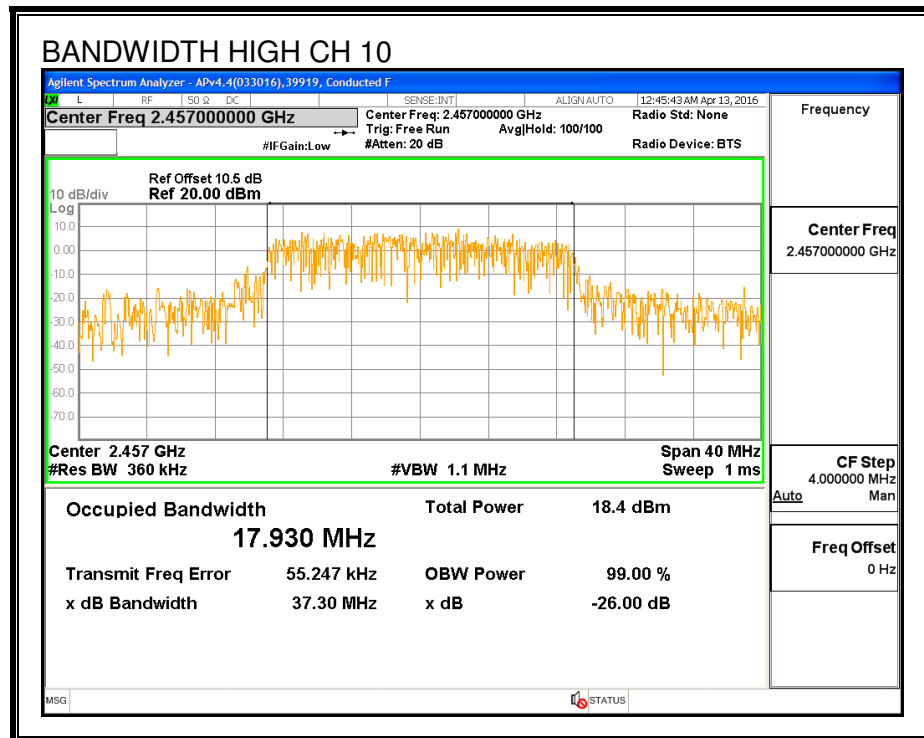
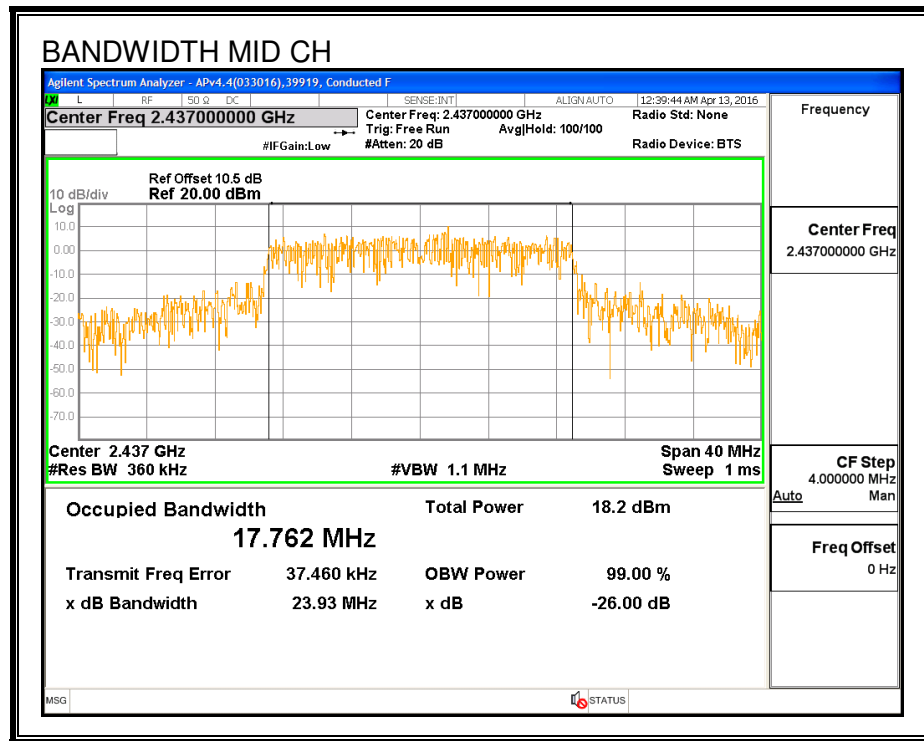
LIMITS

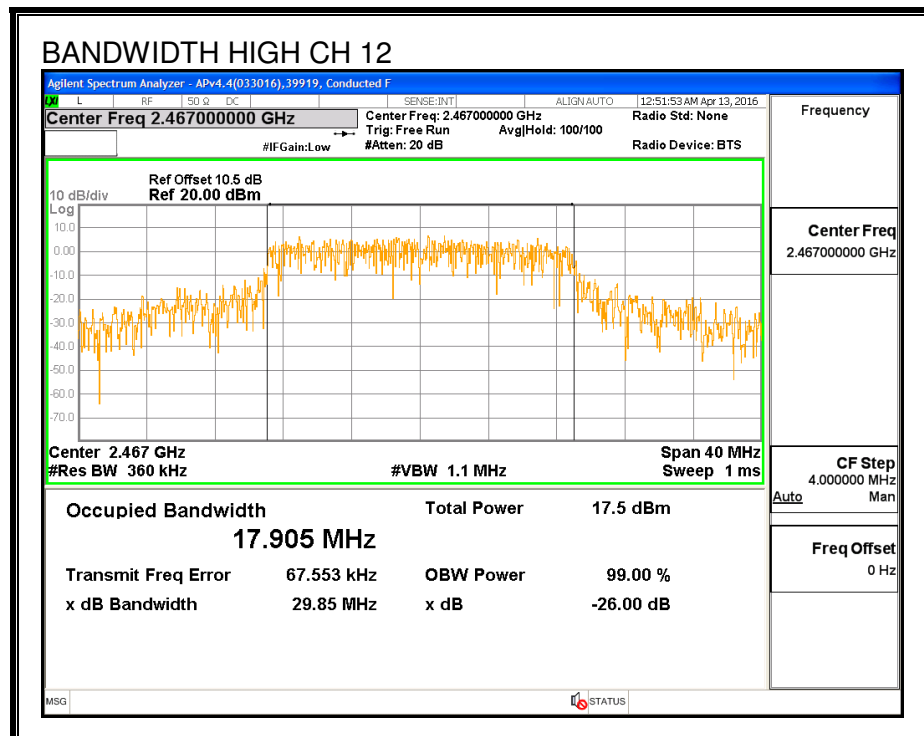
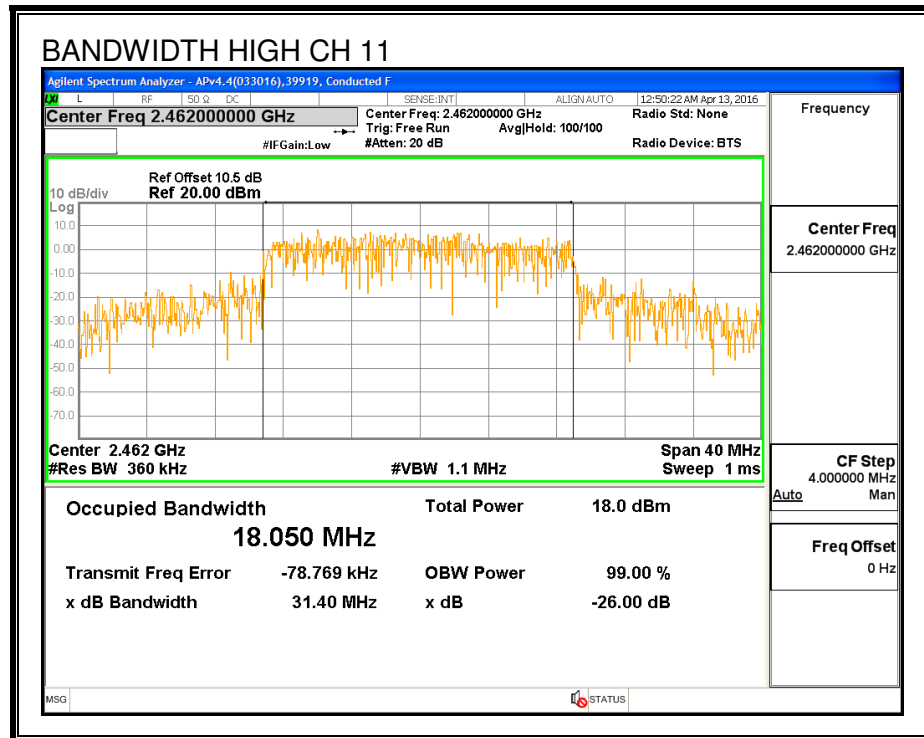
None; for reporting purposes only.

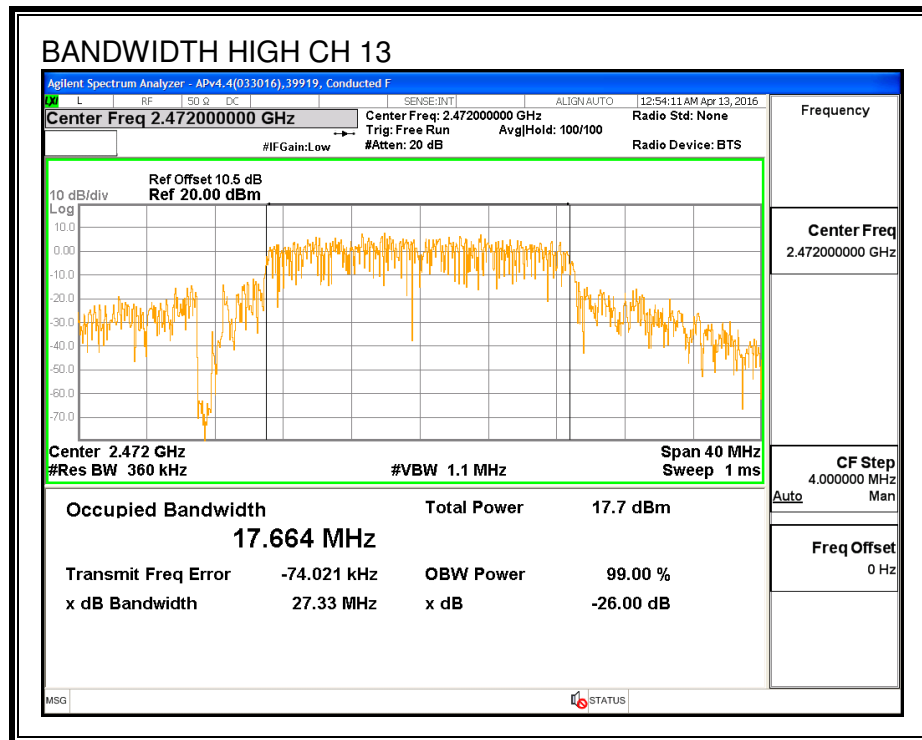
RESULTS

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low_1	2412	17.793
Low_2	2417	17.753
Mid_6	2437	17.762
High_10	2457	17.930
High_11	2462	18.050
High_12	2467	17.905
High_13	2472	17.664









8.6.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

ID:	39919	Date:	6/2/16
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Channel	Frequency (MHz)	Power (dBm)
Low_1	2412	15.97
Low_2	2417	18.00
Mid_6	2437	18.88
High_10	2457	18.66
High_11	2462	14.82
High_12	2467	13.99
High_13	2472	4.98

8.6.4. 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

ID:	39919	Date:	6/2/16
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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)
Low_1	2412	-1.25	30.00	30	36	30.00
Low_2	2417	-1.25	30.00	30	36	30.00
Mid_6	2437	-1.25	30.00	30	36	30.00
High_10	2457	-1.25	30.00	30	36	30.00
High_11	2462	-1.25	30.00	30	36	30.00
High_12	2467	-1.25	30.00	30	36	30.00
High_13	2472	-1.25	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)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low_1	2412	21.64	21.64	30.00	-8.36
Low_2	2417	24.26	24.26	30.00	-5.74
Mid_6	2437	25.38	25.38	30.00	-4.62
High_10	2457	25.15	25.15	30.00	-4.85
High_11	2462	20.49	20.49	30.00	-9.51
High_12	2467	19.65	19.65	30.00	-10.35
High_13	2472	10.91	10.91	30.00	-19.09

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.

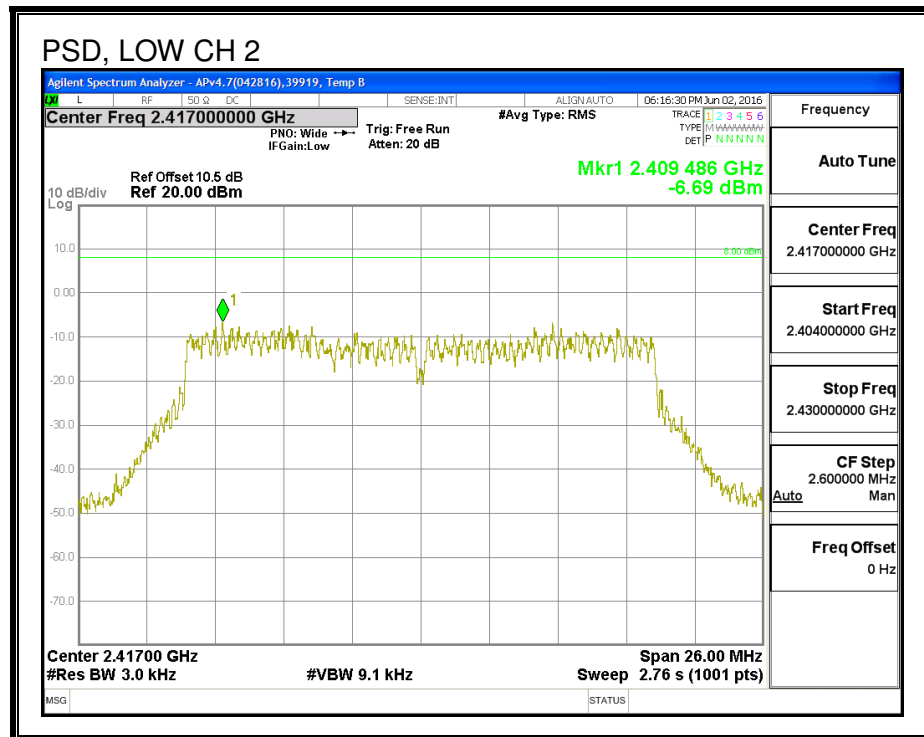
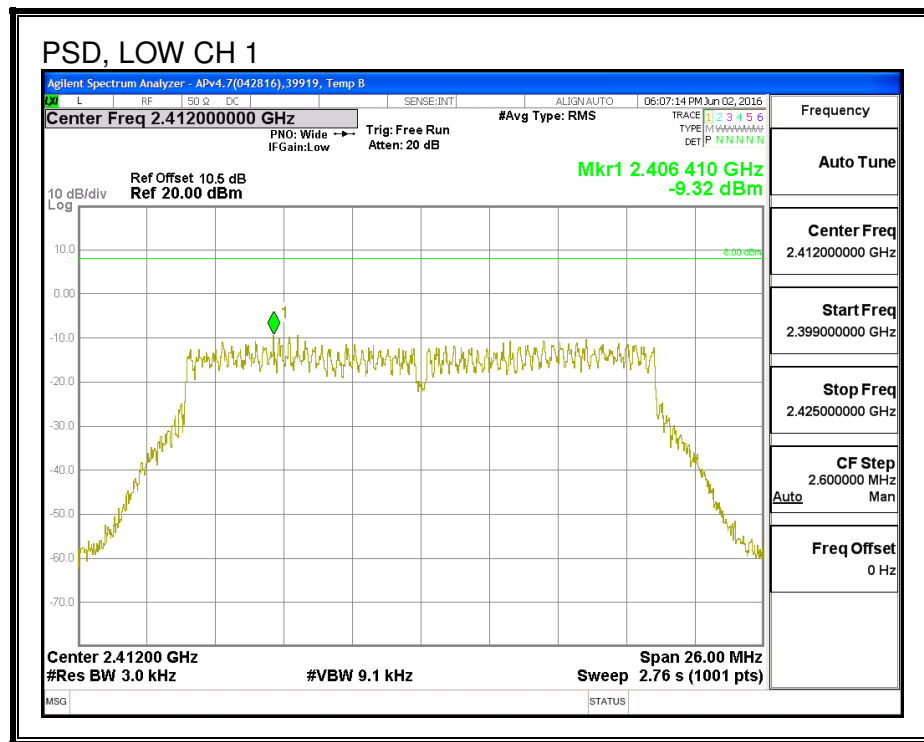
RESULTS

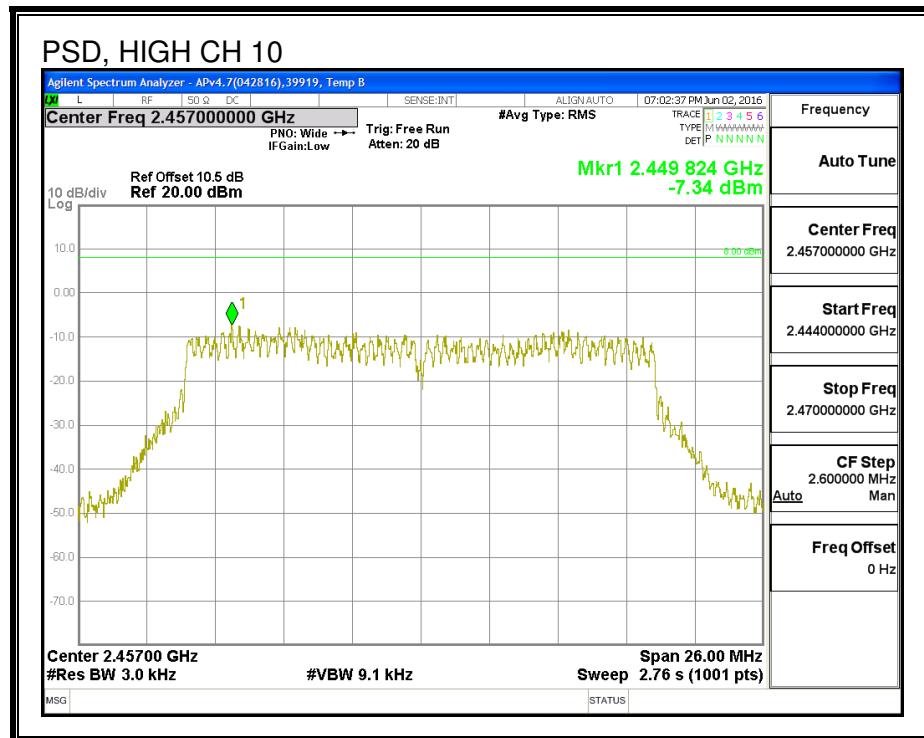
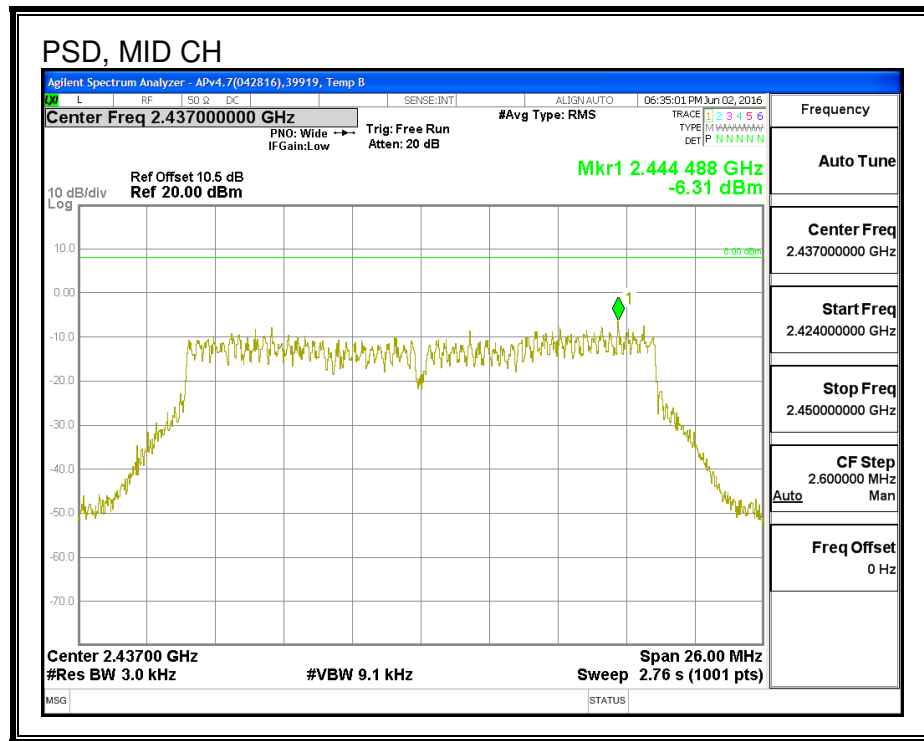
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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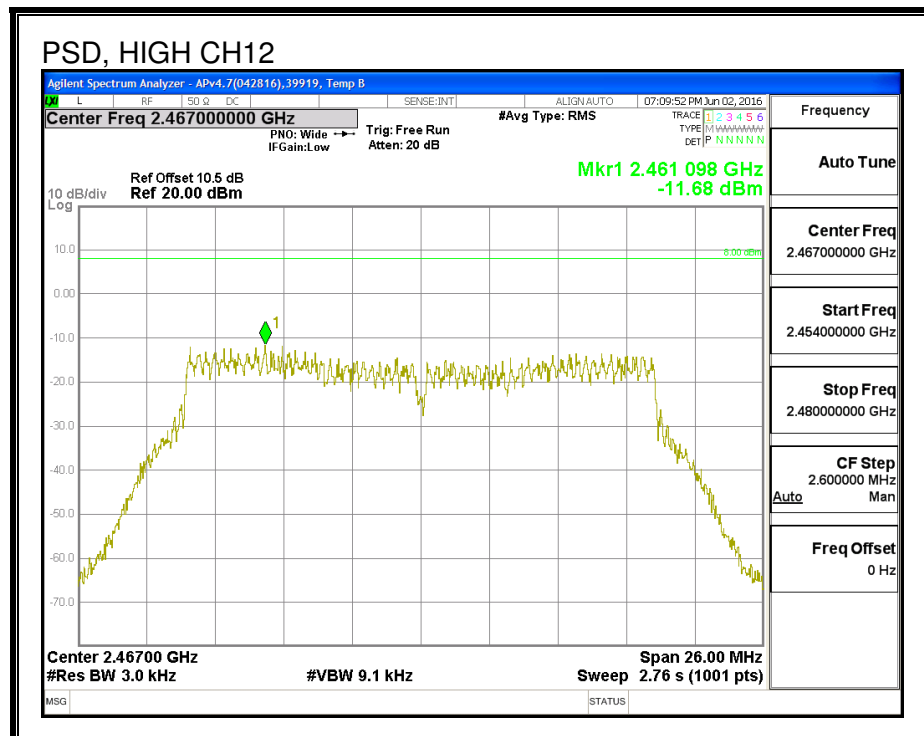
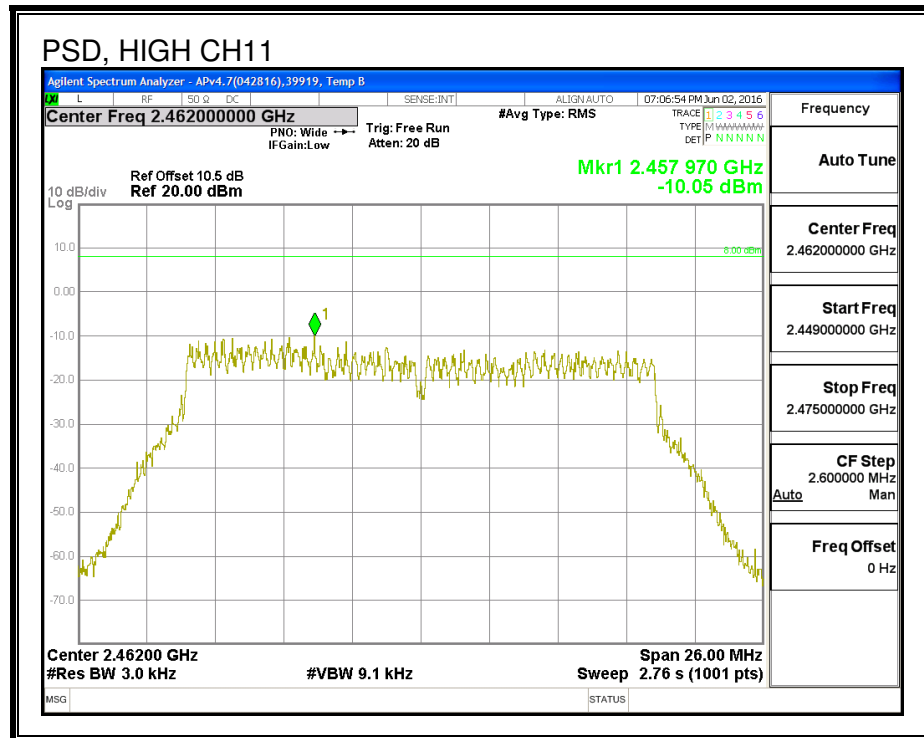
PSD Results

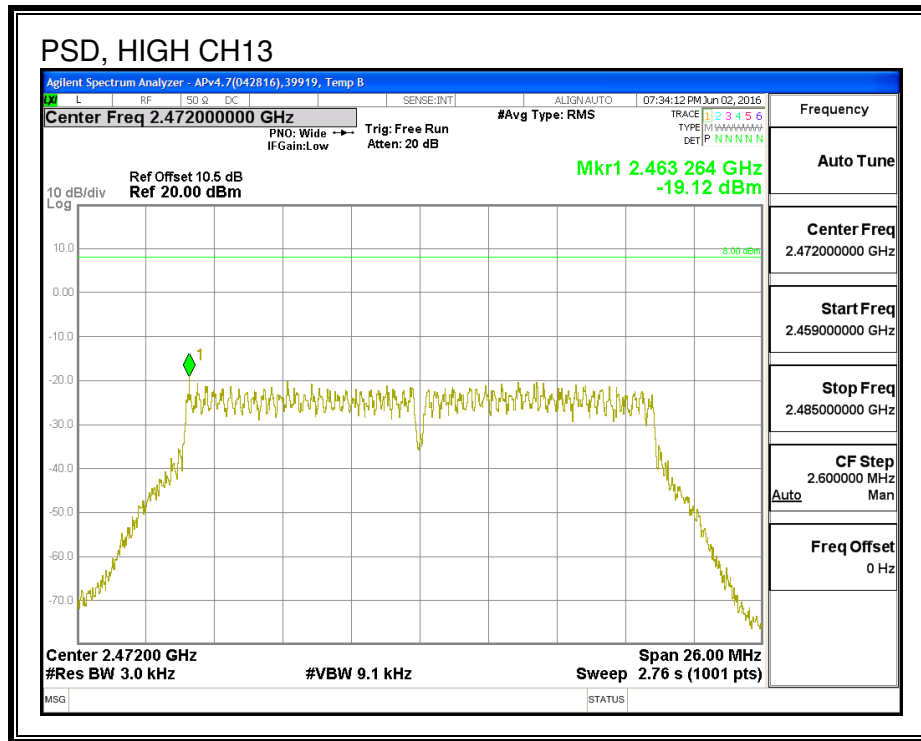
Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Total Corr'd PSD (dBm)	Limit (dBm)	Margin (dB)
Low_1	2412	-9.32	-9.32	8.0	-17.3
Low_2	2417	-6.69	-6.69	8.0	-14.7
Mid_6	2437	-6.31	-6.31	8.0	-14.3
High_10	2457	-7.34	-7.34	8.0	-15.3
High_11	2462	-10.05	-10.05	8.0	-18.1
High_12	2467	-11.68	-11.68	8.0	-19.7
High_13	2472	-19.12	-19.12	8.0	-27.1

PSD









8.6.6. OUT-OF-BAND EMISSIONS

LIMITS

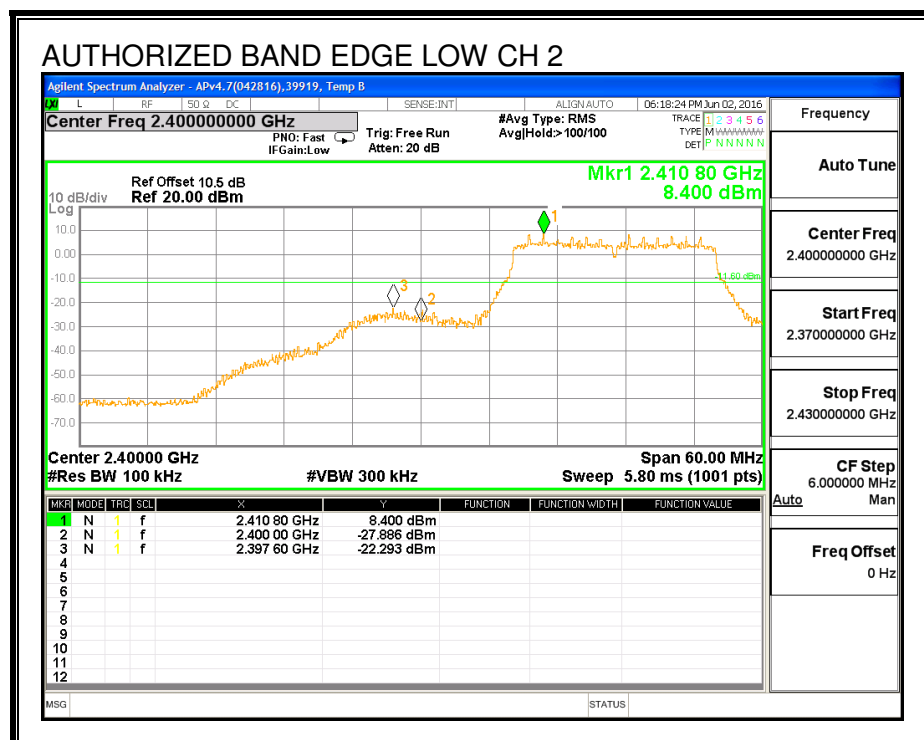
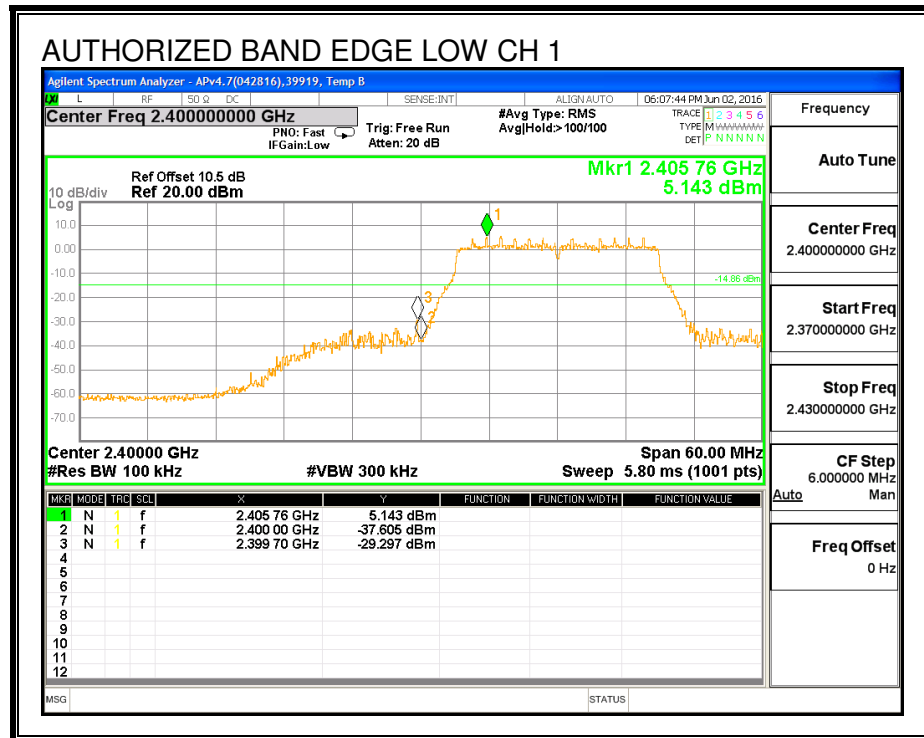
FCC §15.247 (d)

IC RSS-247 (5.5)

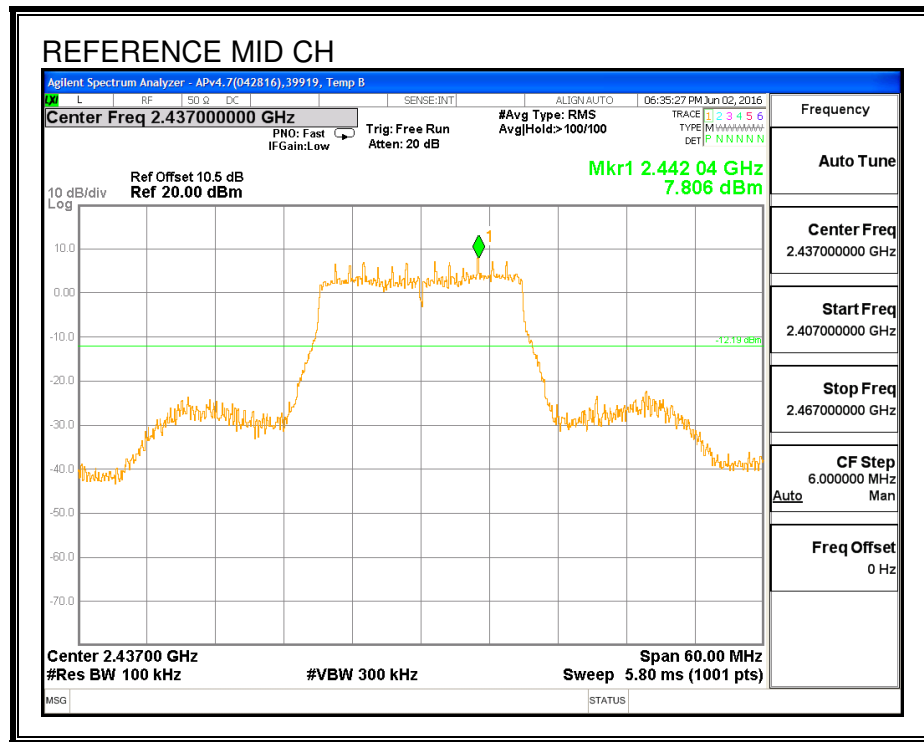
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the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

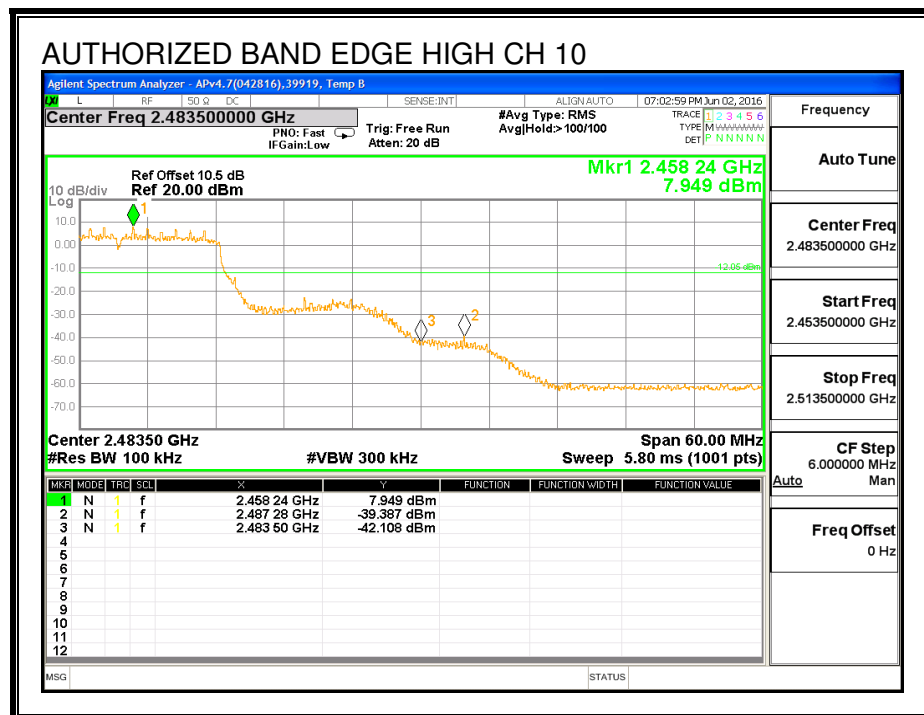
LOW CHANNEL BANDEDGE

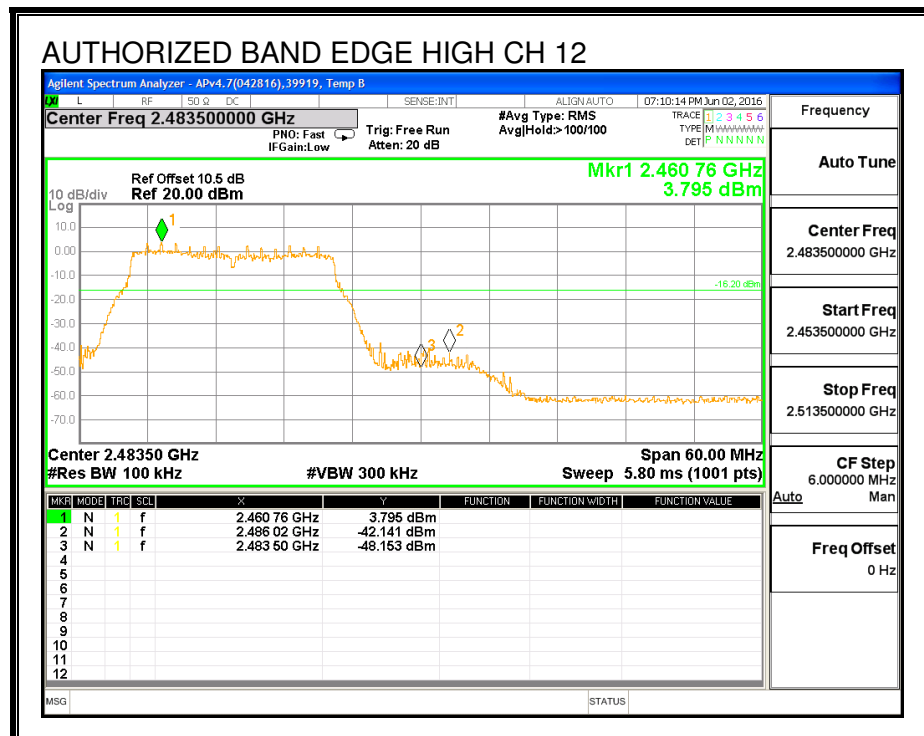
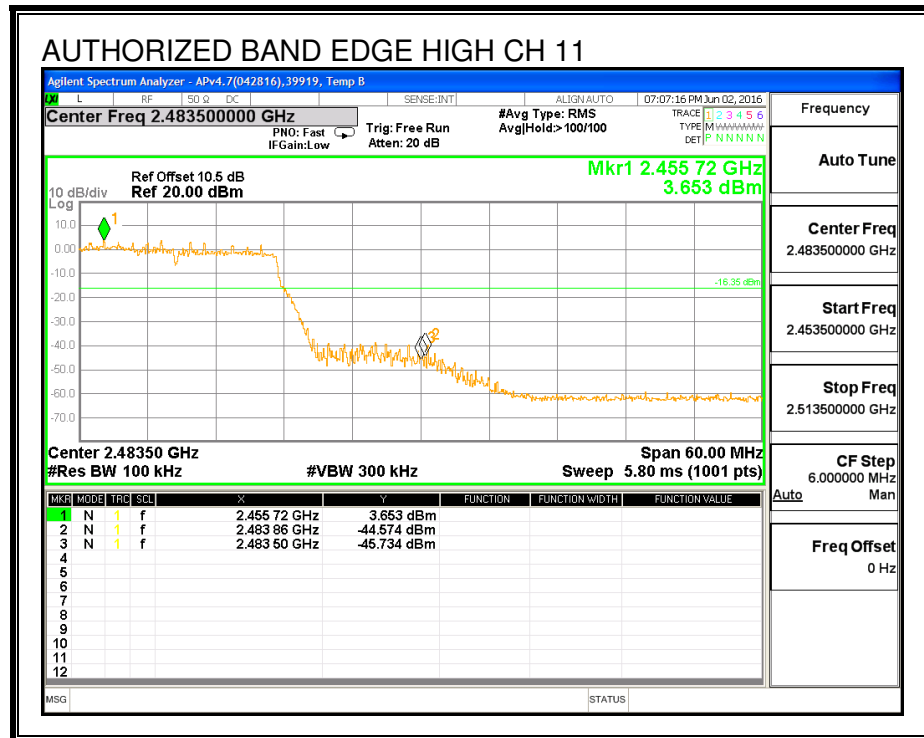


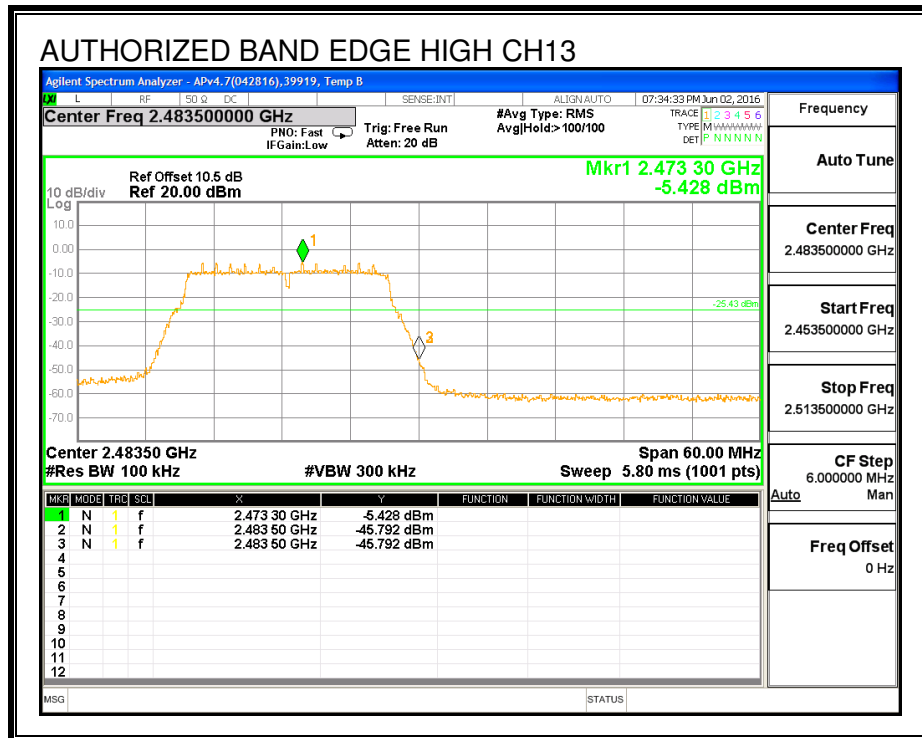
MID CHANNEL REFERENCE



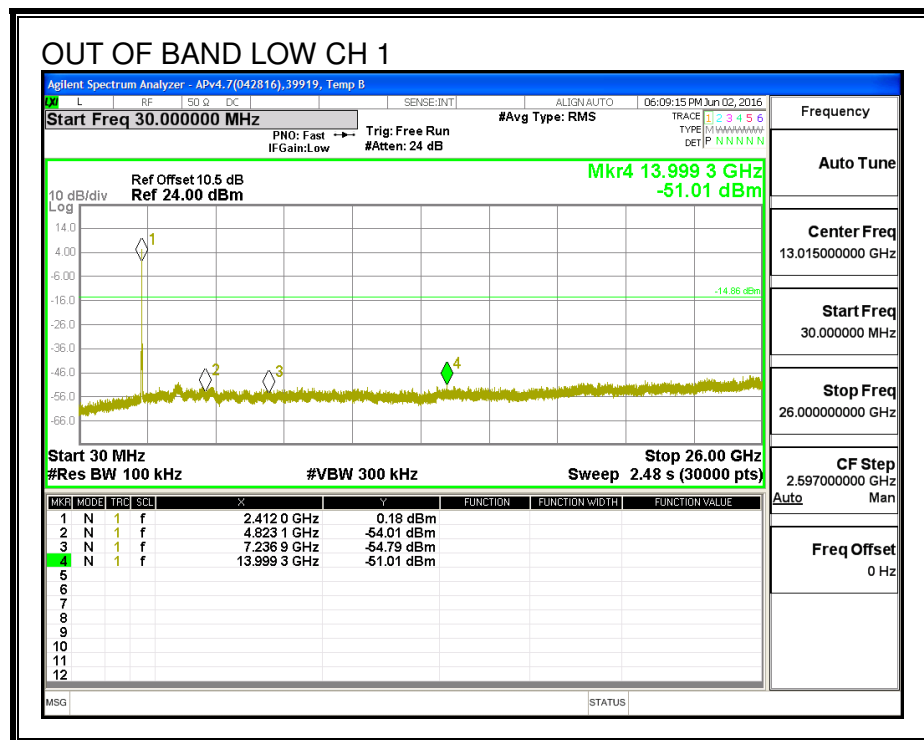
HIGH CHANNEL BANDEDGE

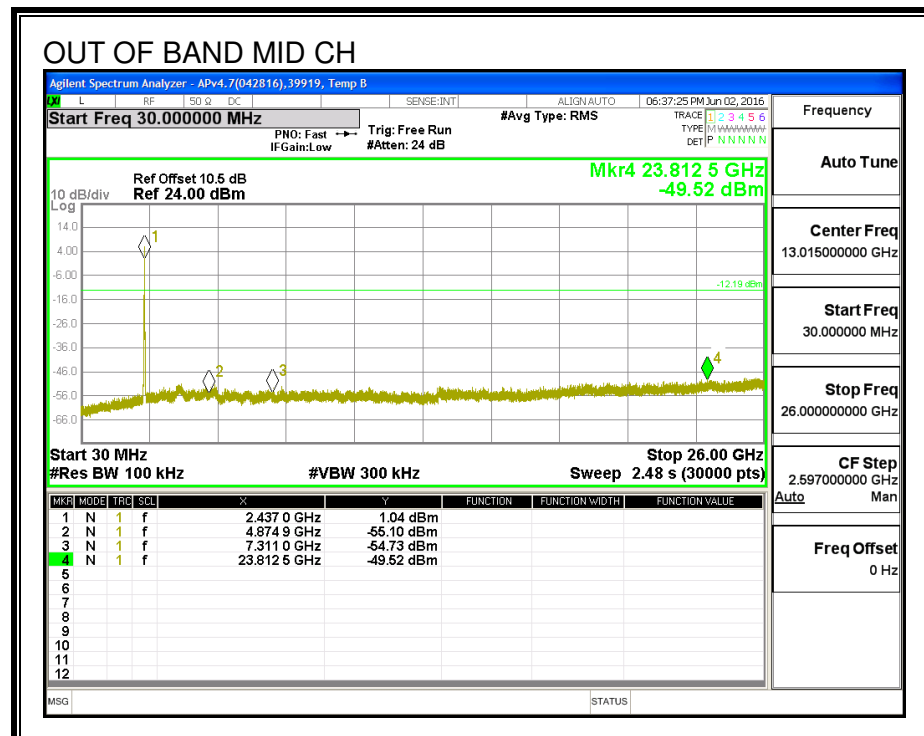
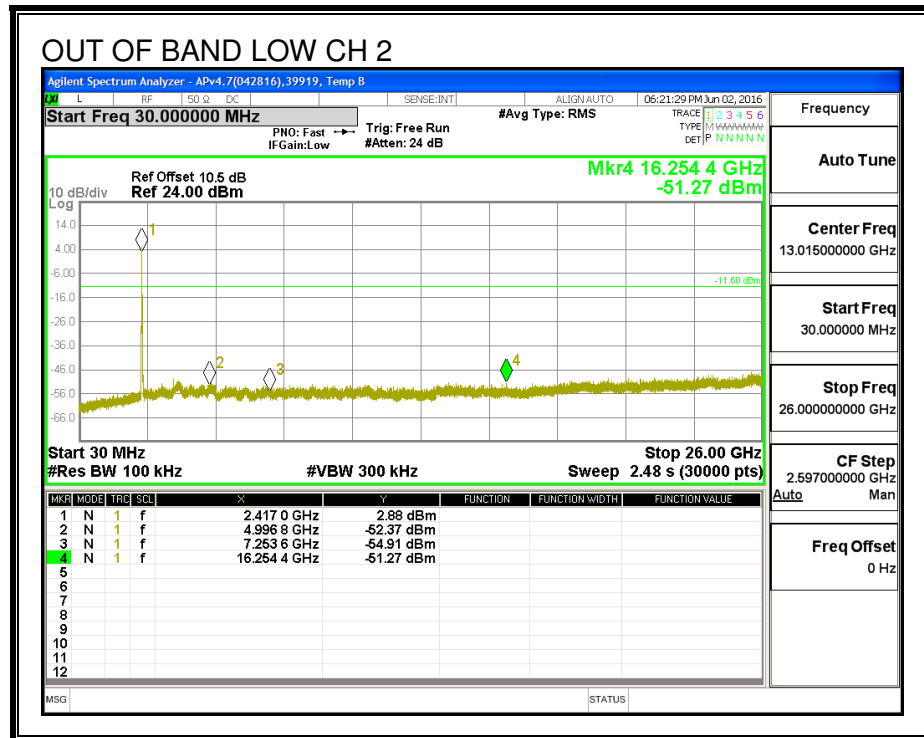


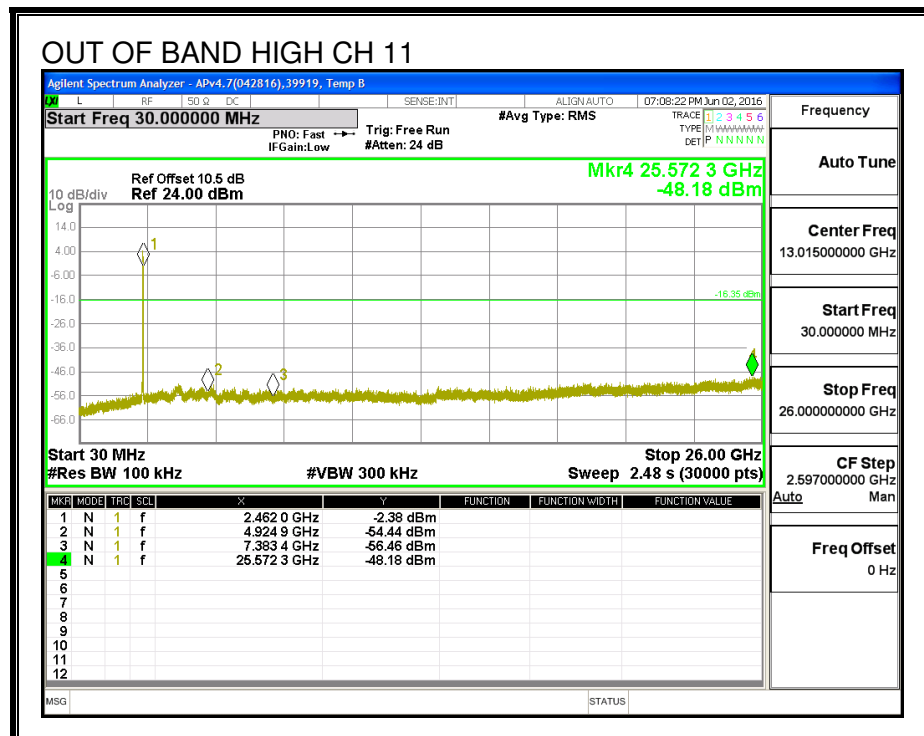
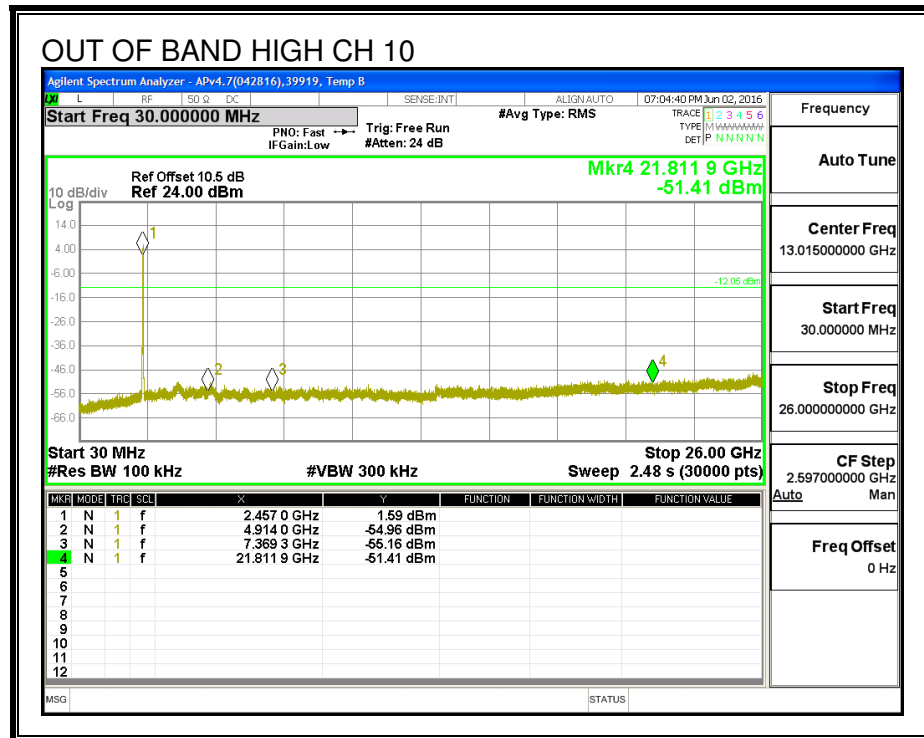


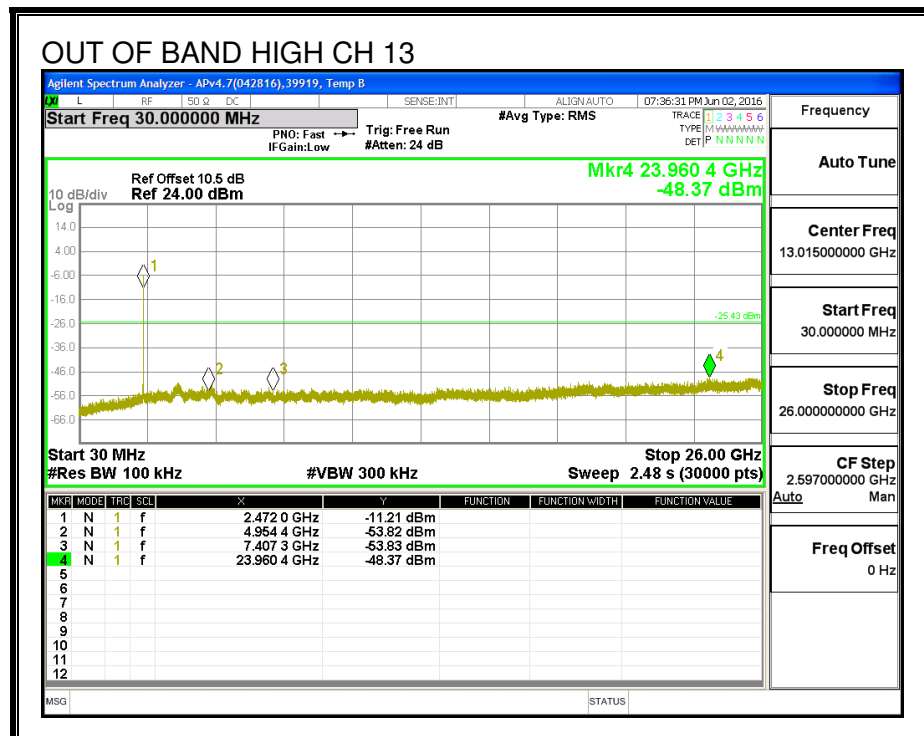
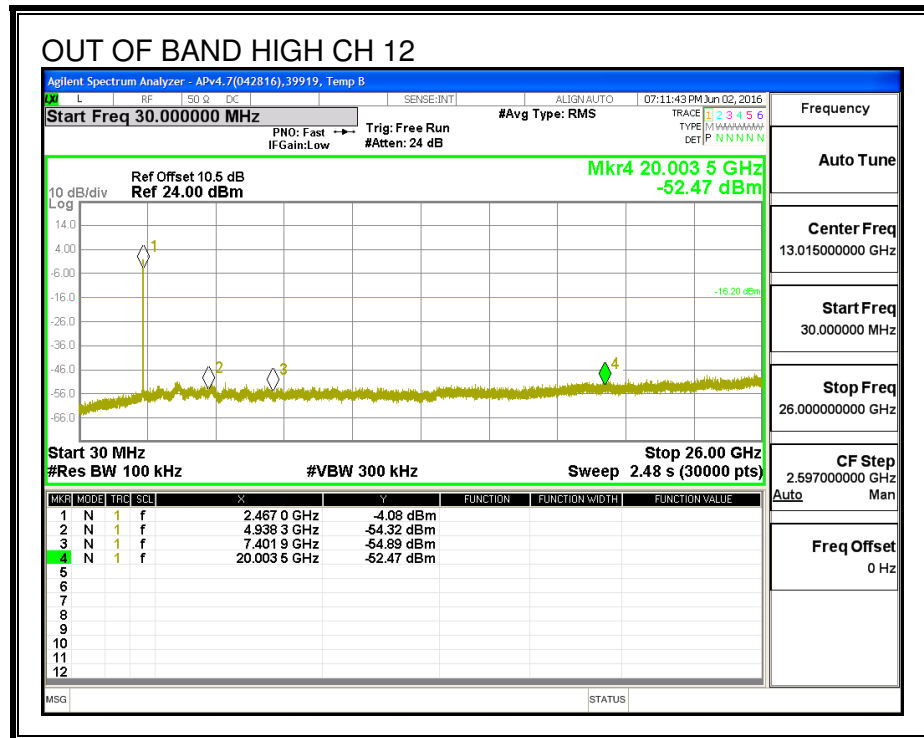


OUT-OF-BAND EMISSIONS









8.7. 802.11n HT20 2Tx CDD MODE IN THE 2.4 GHz BAND

8.7.1. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

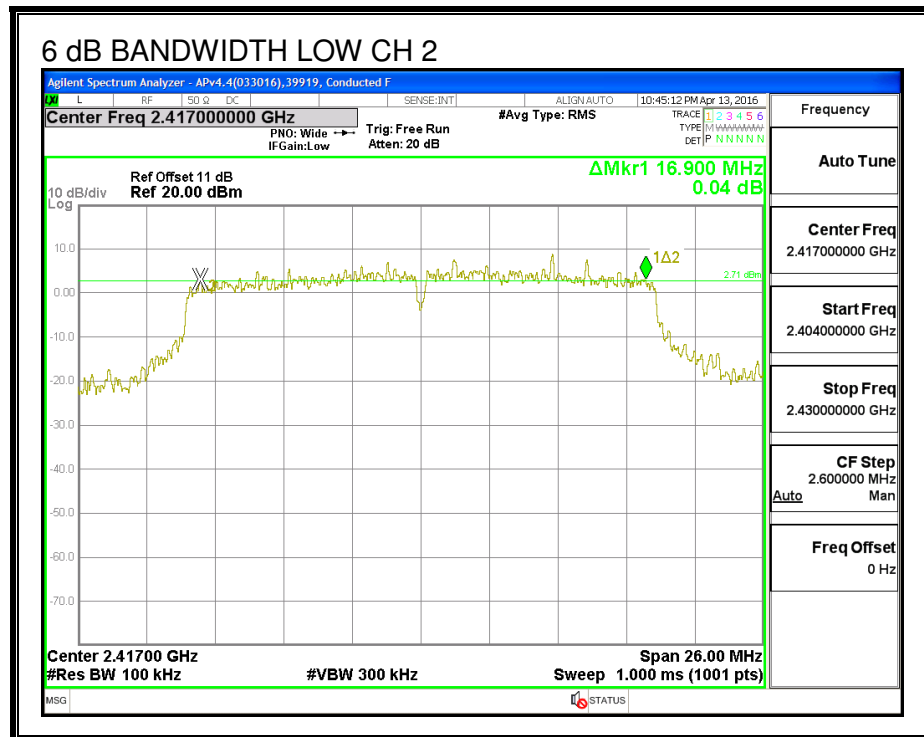
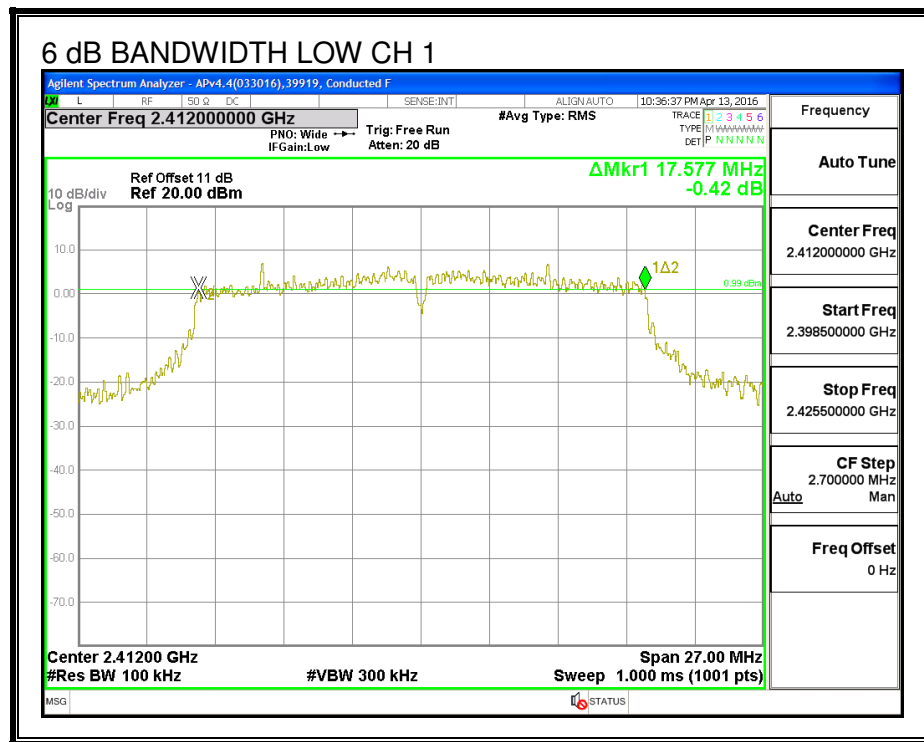
IC RSS-247 (5.2) (1)

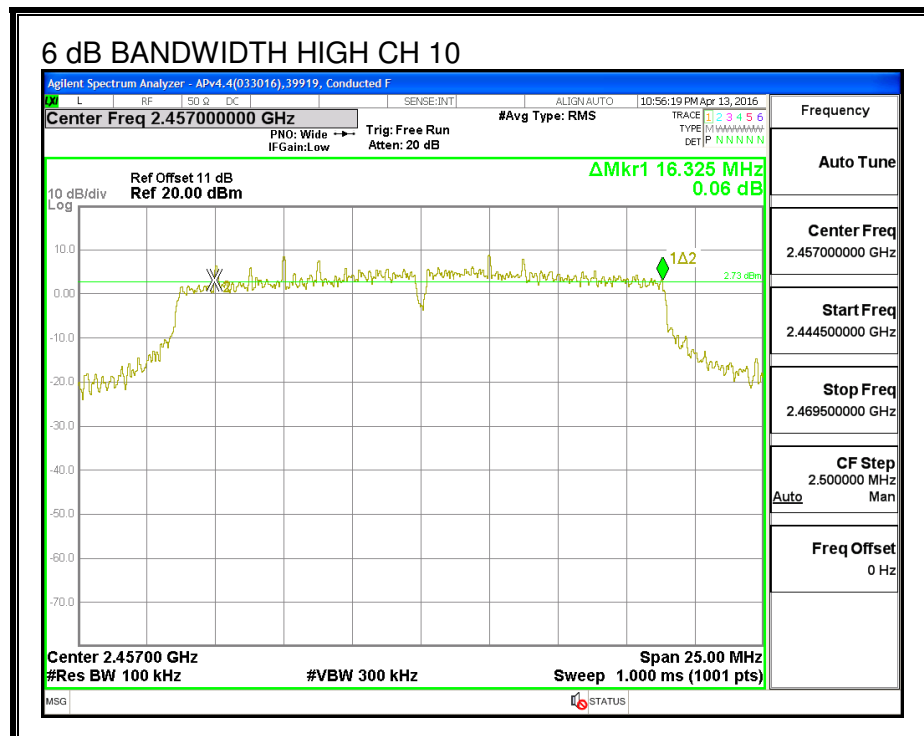
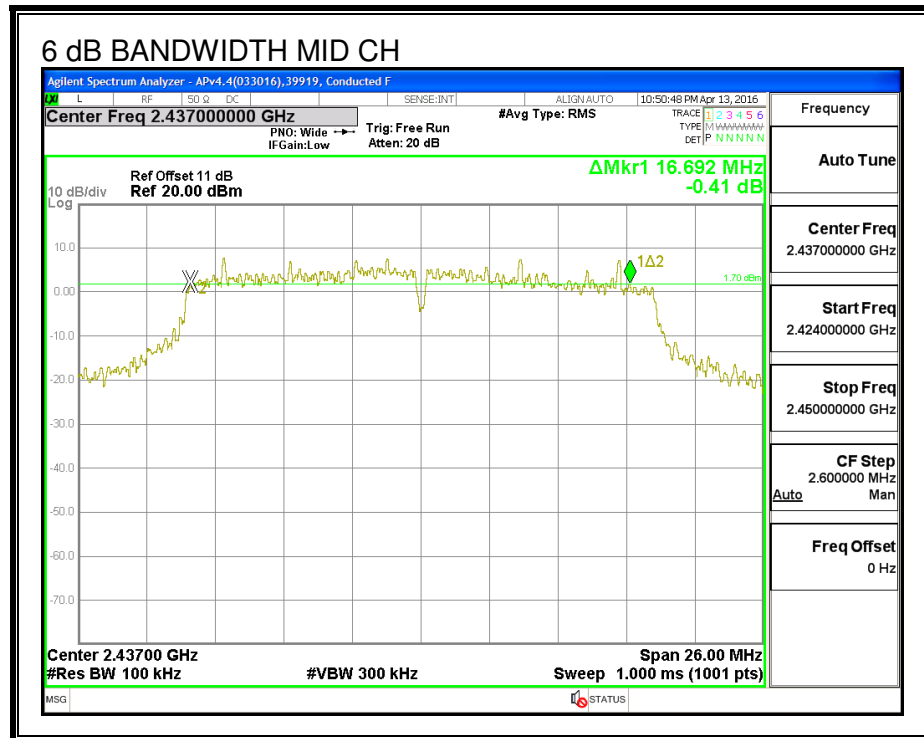
The minimum 6 dB bandwidth shall be at least 500 kHz.

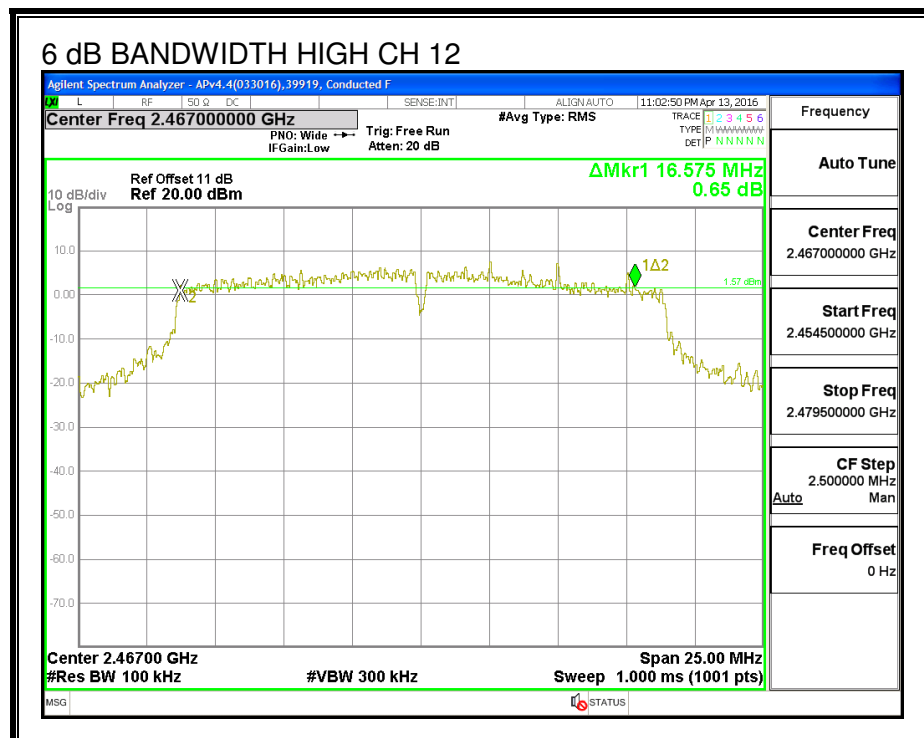
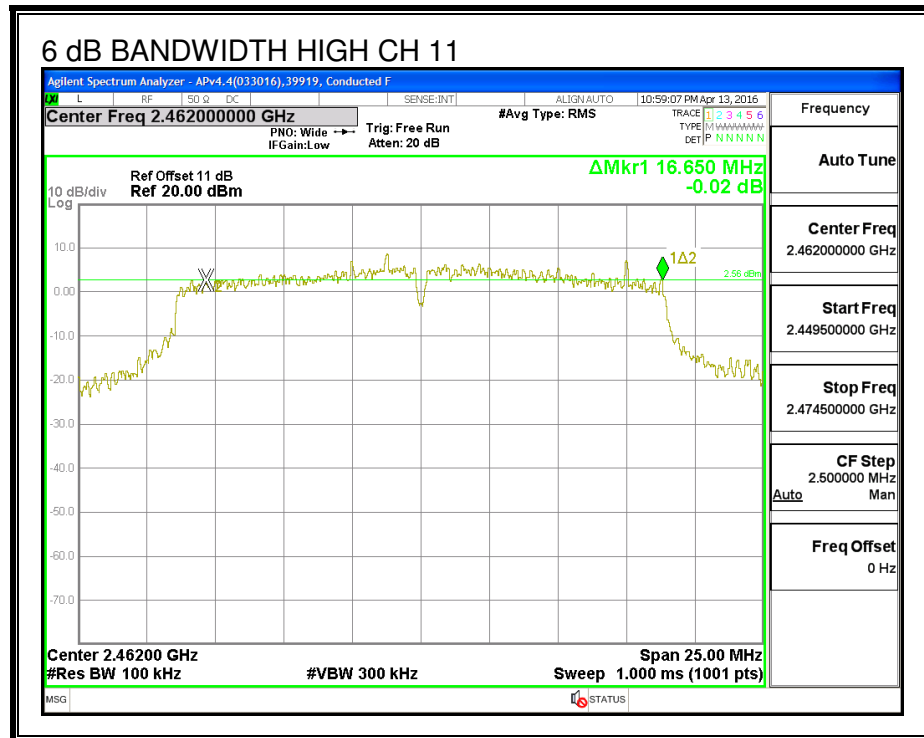
RESULTS

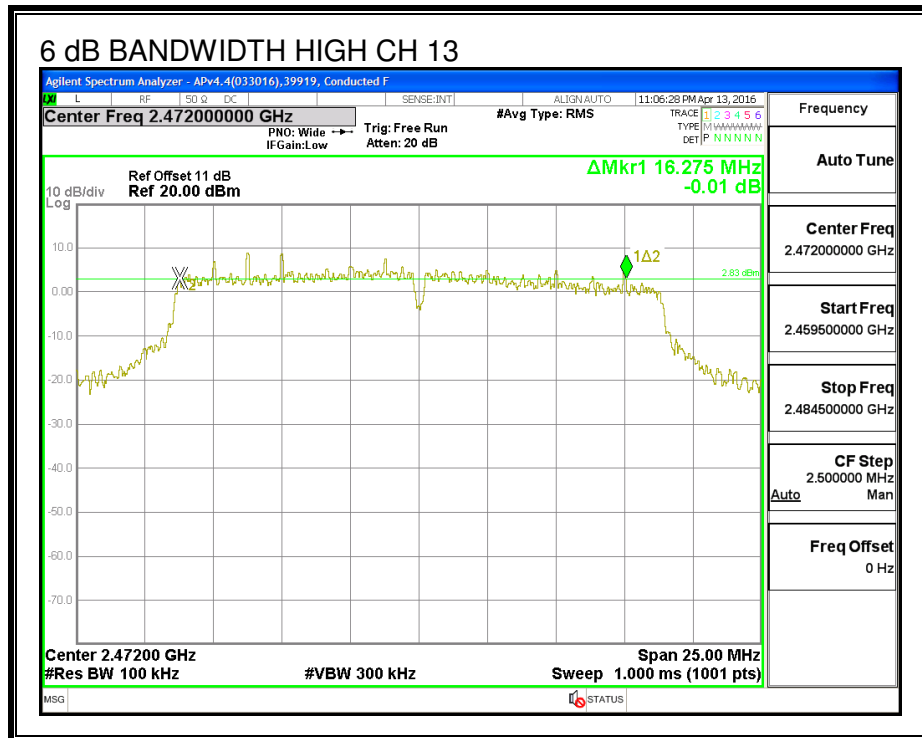
Channel	Frequency (MHz)	6 dB BW Chain 0 (MHz)	6 dB BW Chain 1 (MHz)	Minimum Limit (MHz)
Low_1	2412	17.577	16.275	0.5
Low_2	2417	16.900	17.550	0.5
Mid_6	2437	16.692	17.631	0.5
High_10	2457	16.325	16.900	0.5
High_11	2462	16.650	16.926	0.5
High_12	2467	16.575	17.550	0.5
High_13	2472	16.275	16.550	0.5

6 dB BANDWIDTH, Chain 0

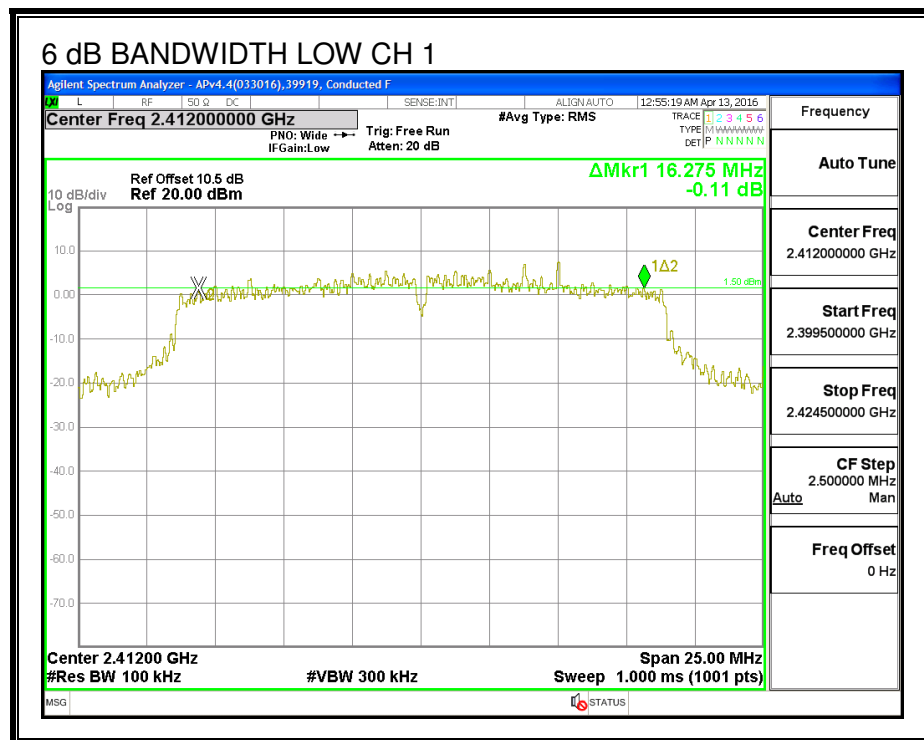


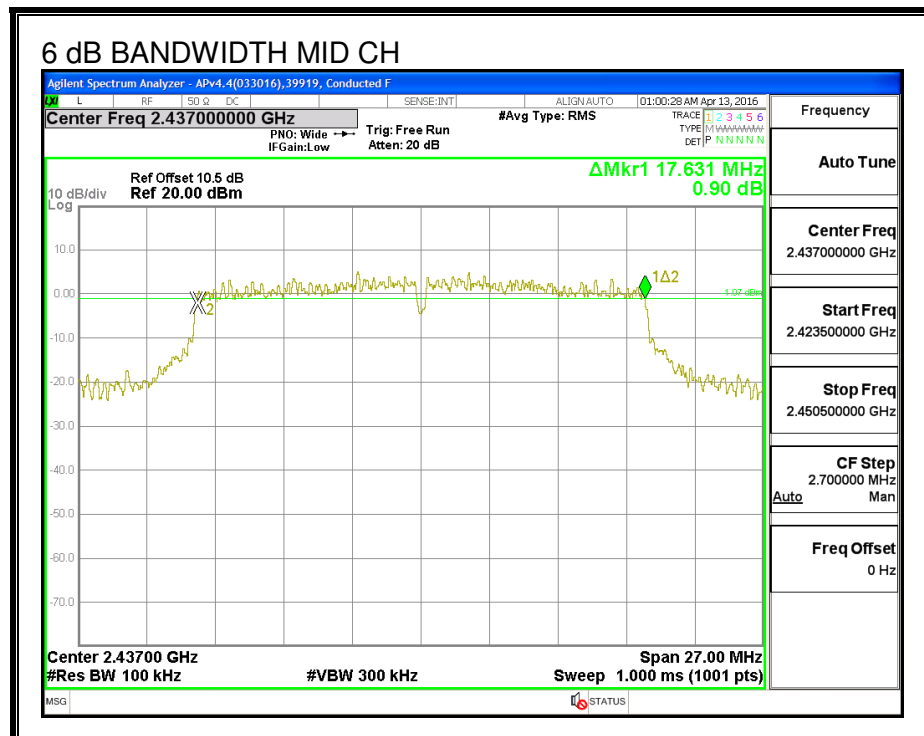
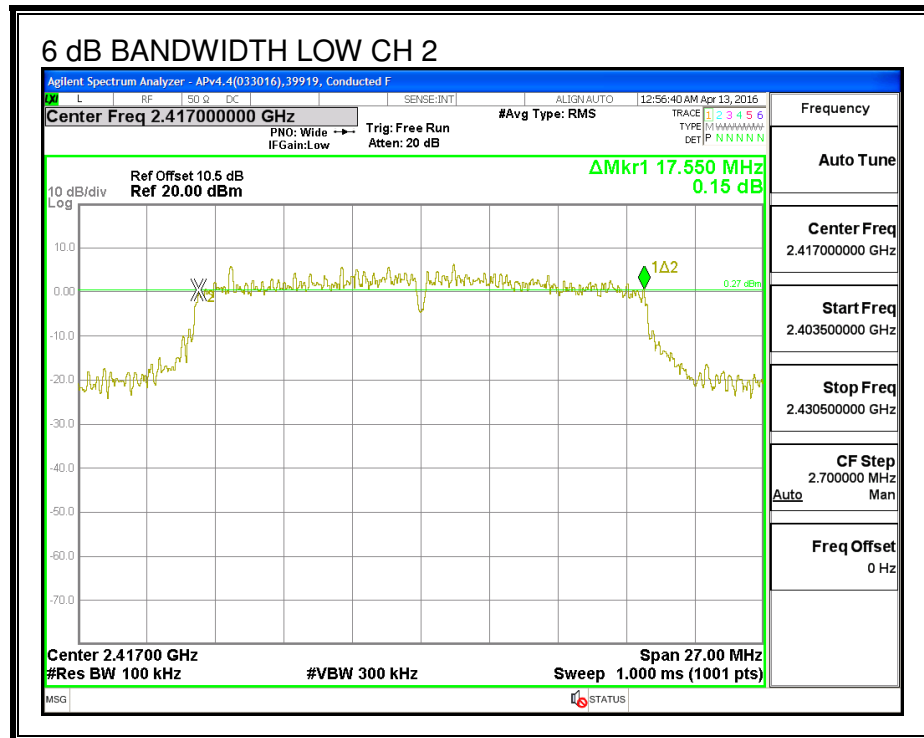


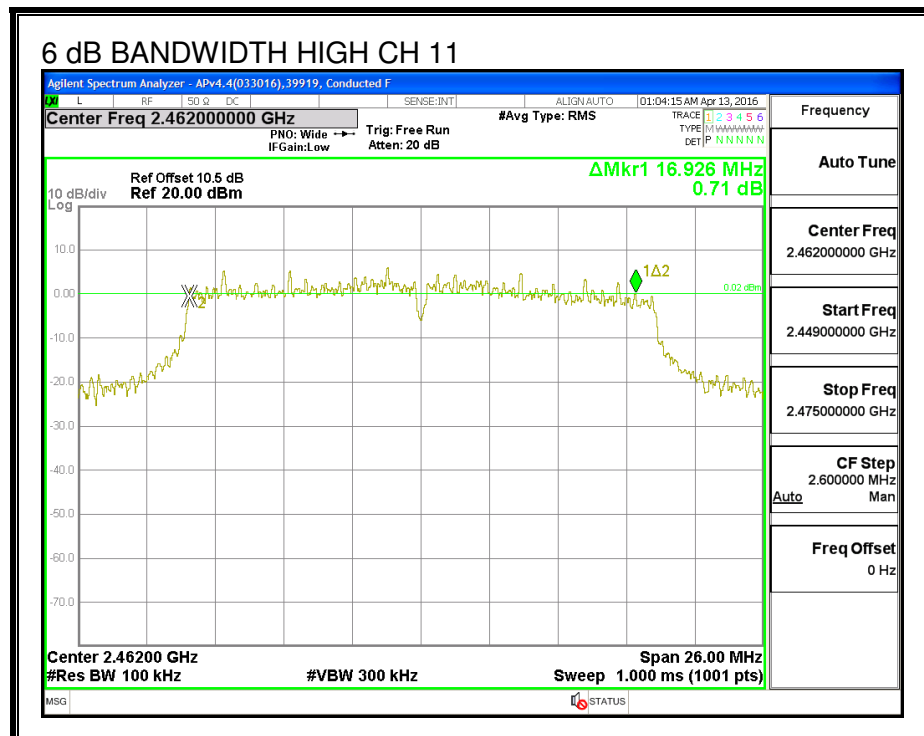
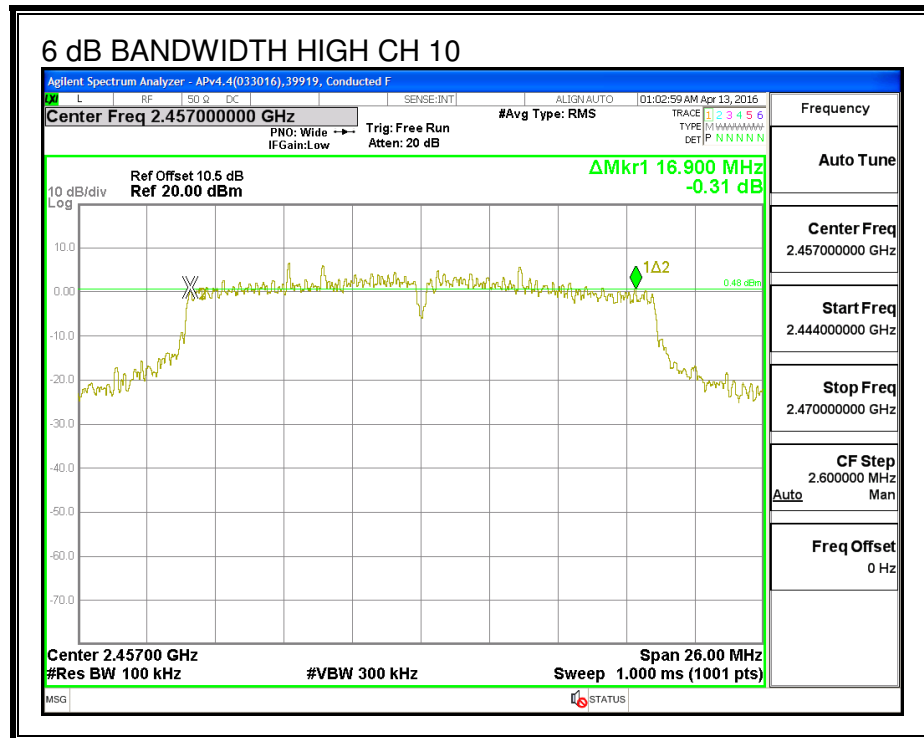


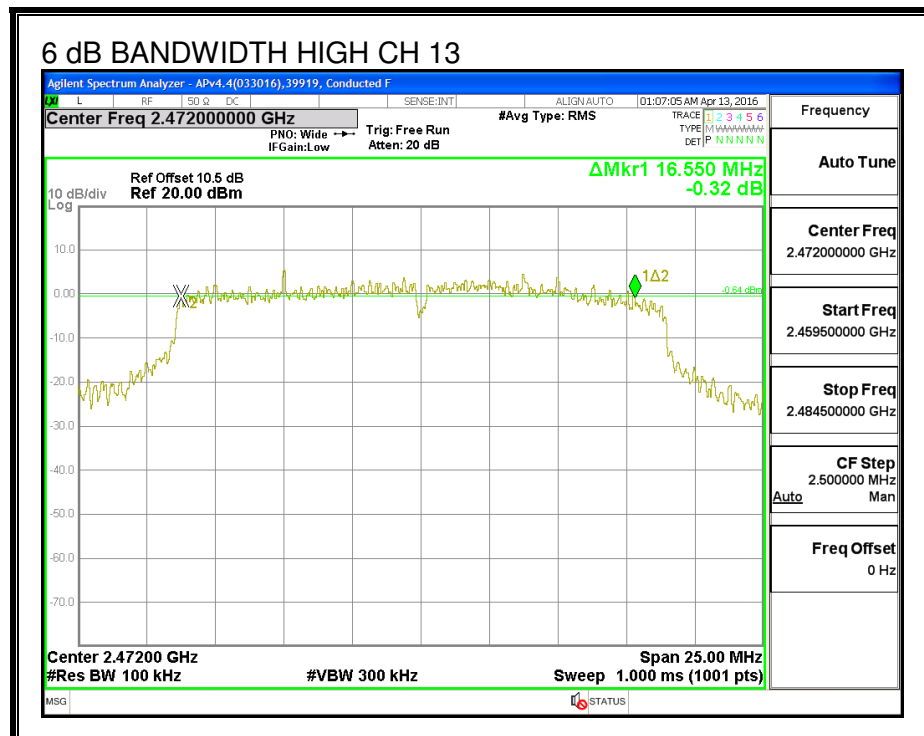
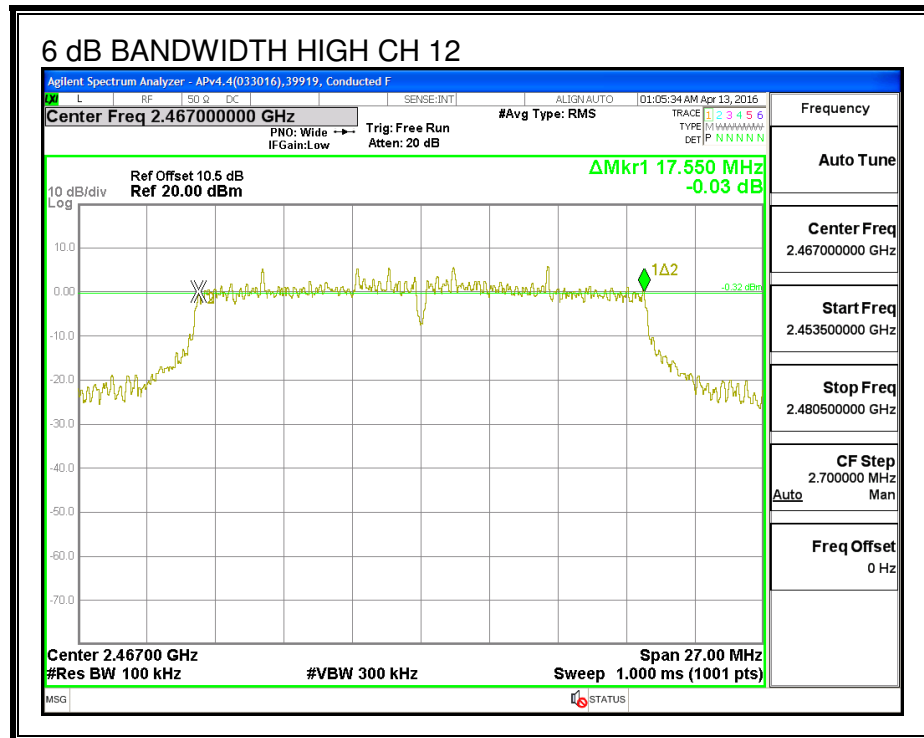


6 dB BANDWIDTH, Chain 1









8.7.2. 99% BANDWIDTH

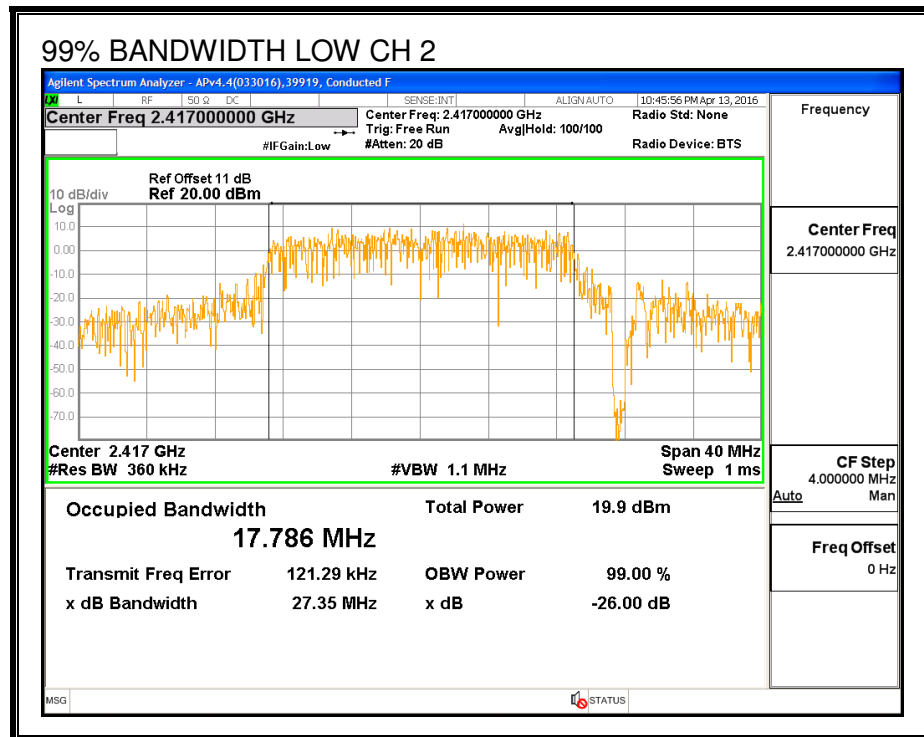
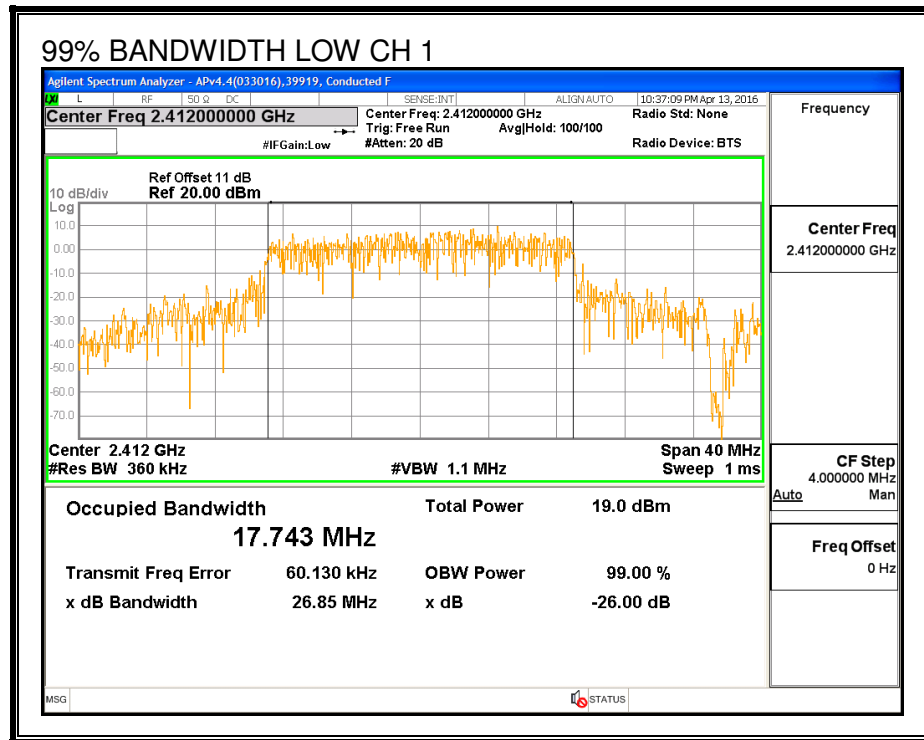
LIMITS

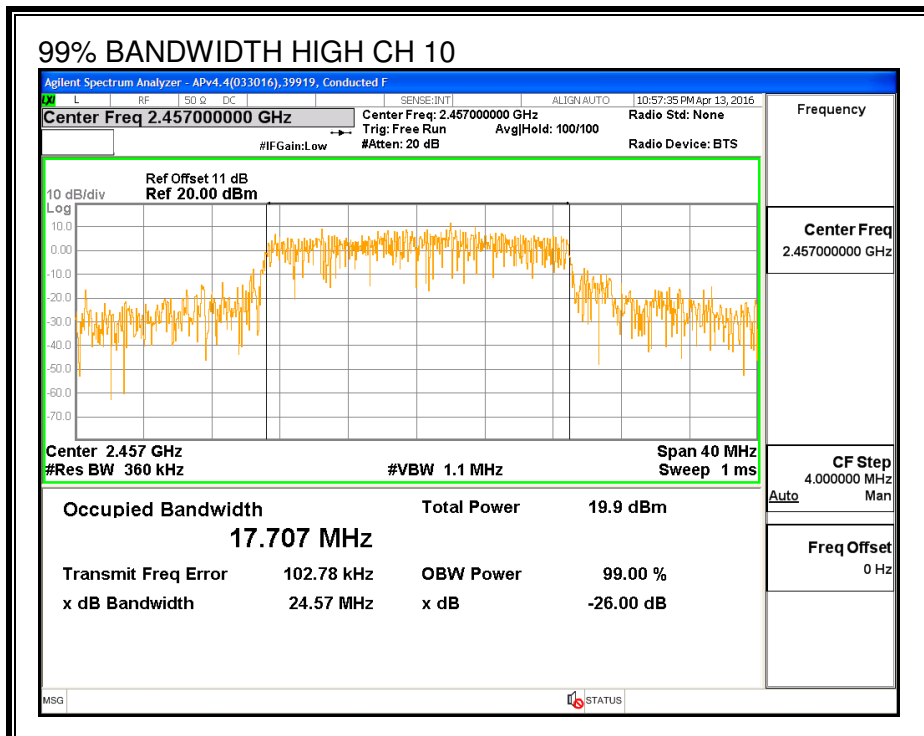
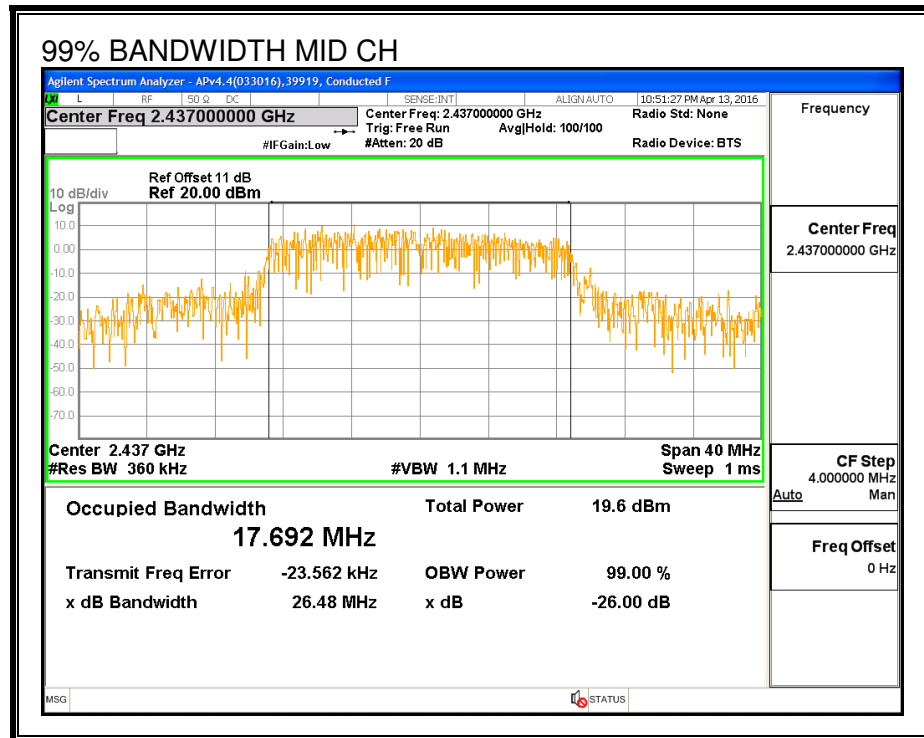
None; for reporting purposes only.

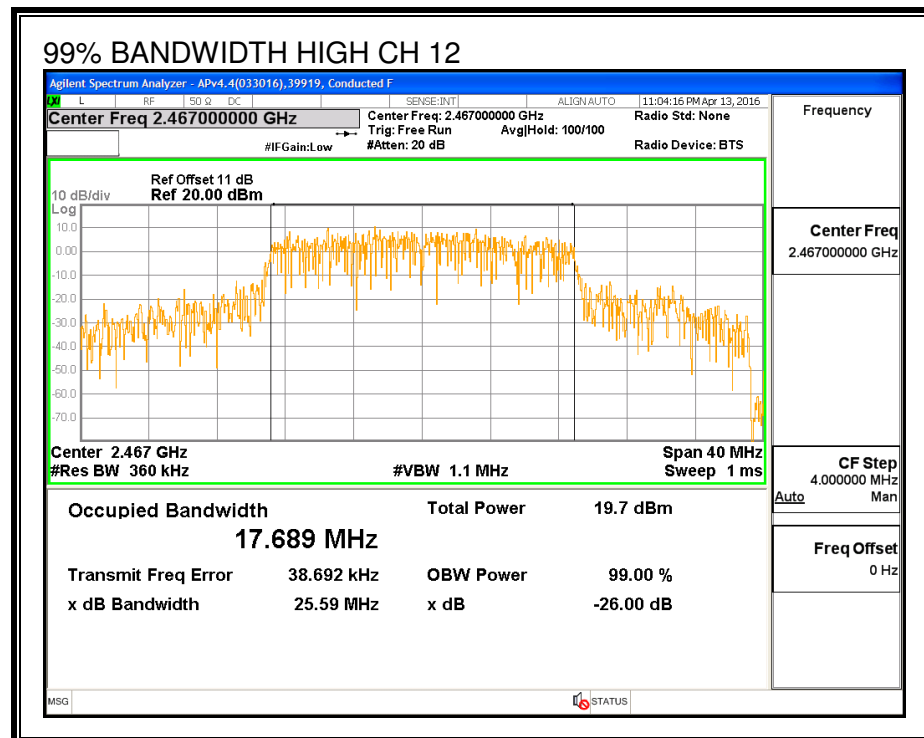
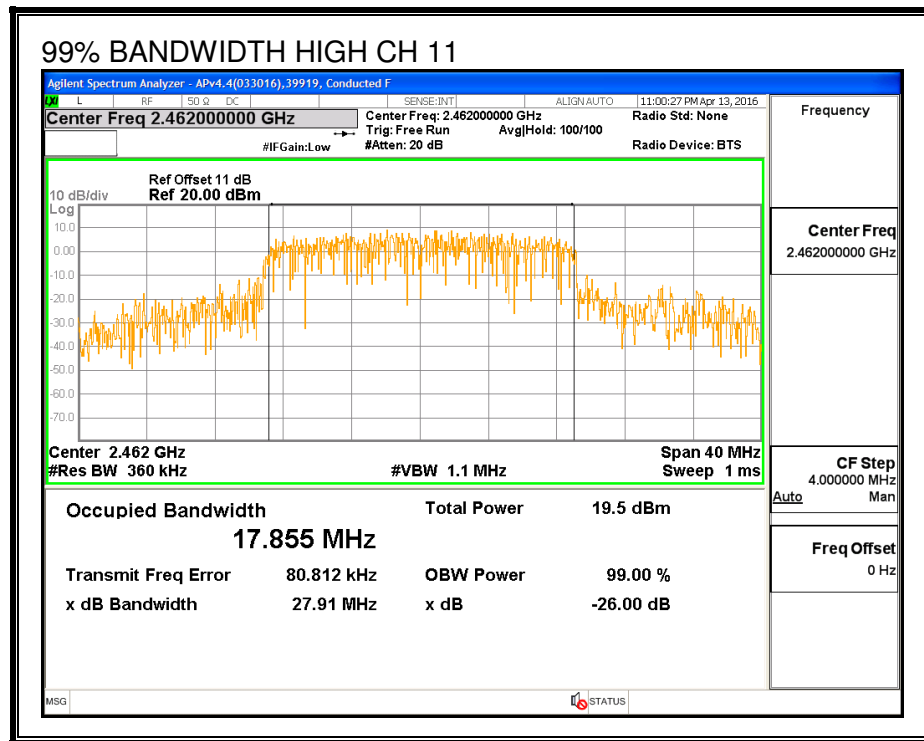
RESULTS

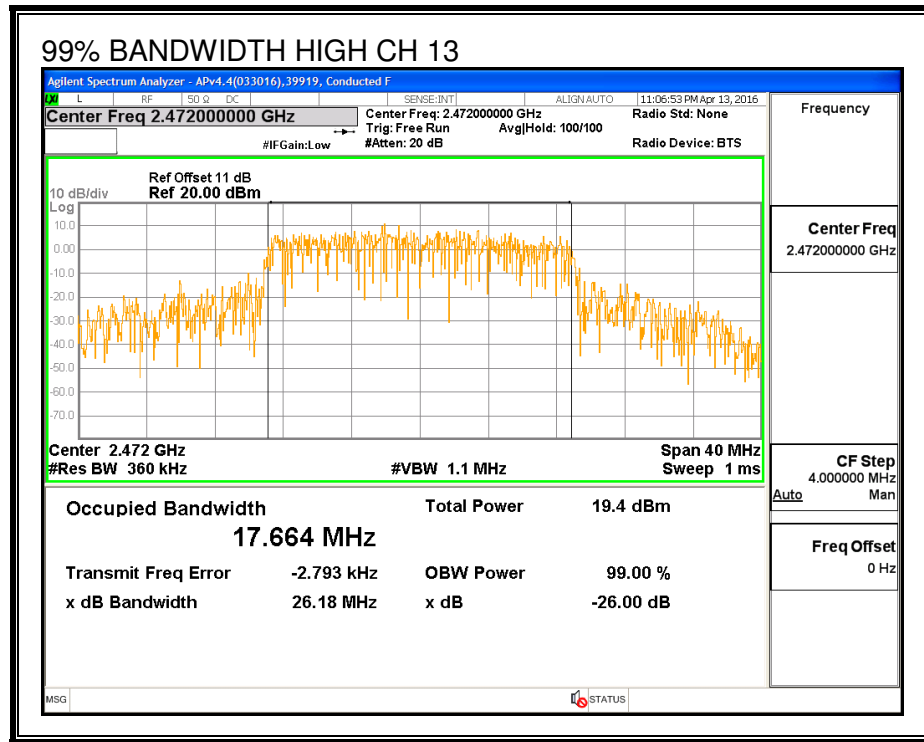
Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low_1	2412	17.743	17.799
Low_2	2417	17.786	17.852
Mid_6	2437	17.692	18.028
High_10	2457	17.707	17.956
High_11	2462	17.855	17.852
High_12	2467	17.689	17.899
High_13	2472	17.664	17.748

99% BANDWIDTH, Chain 0

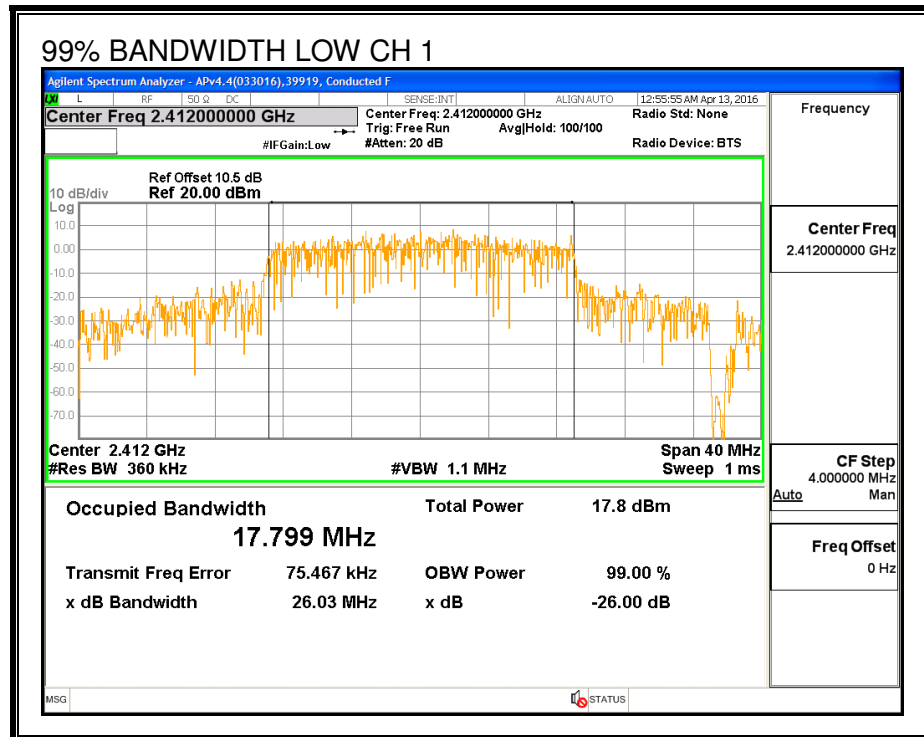


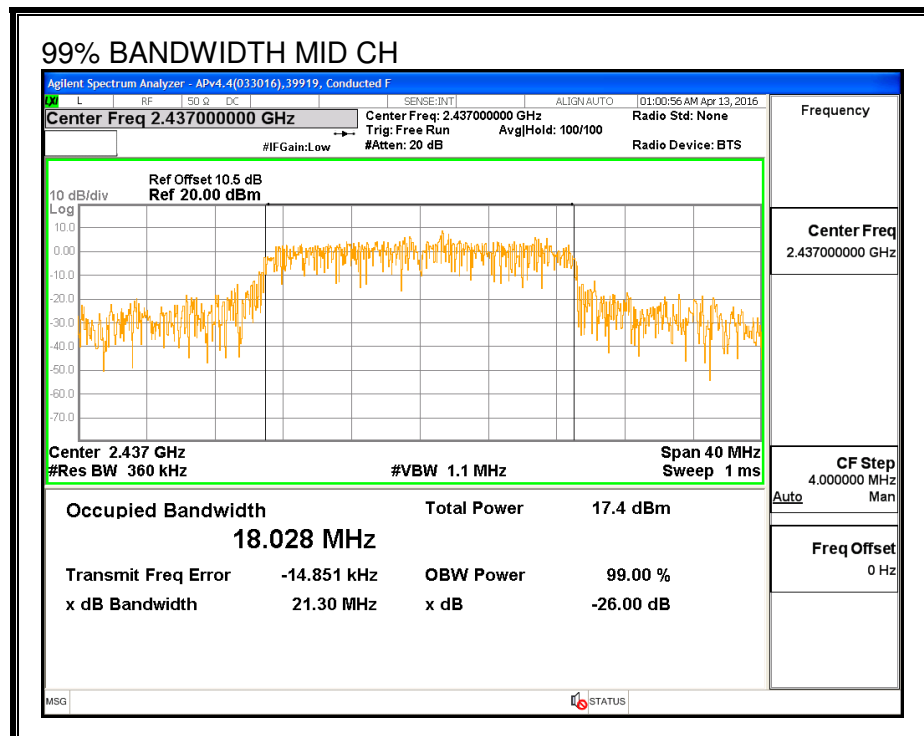
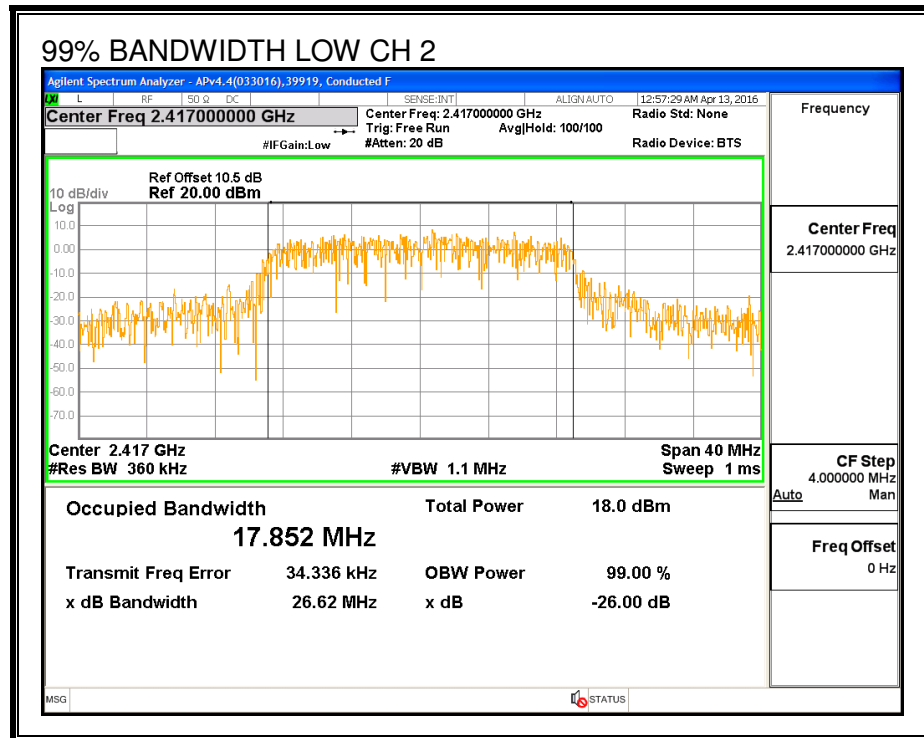


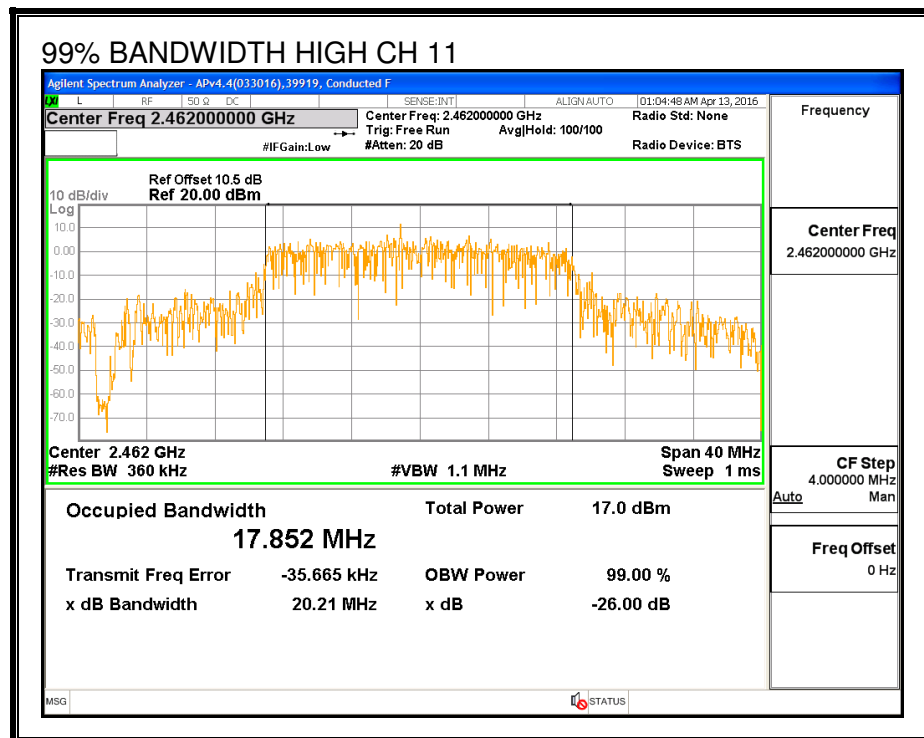
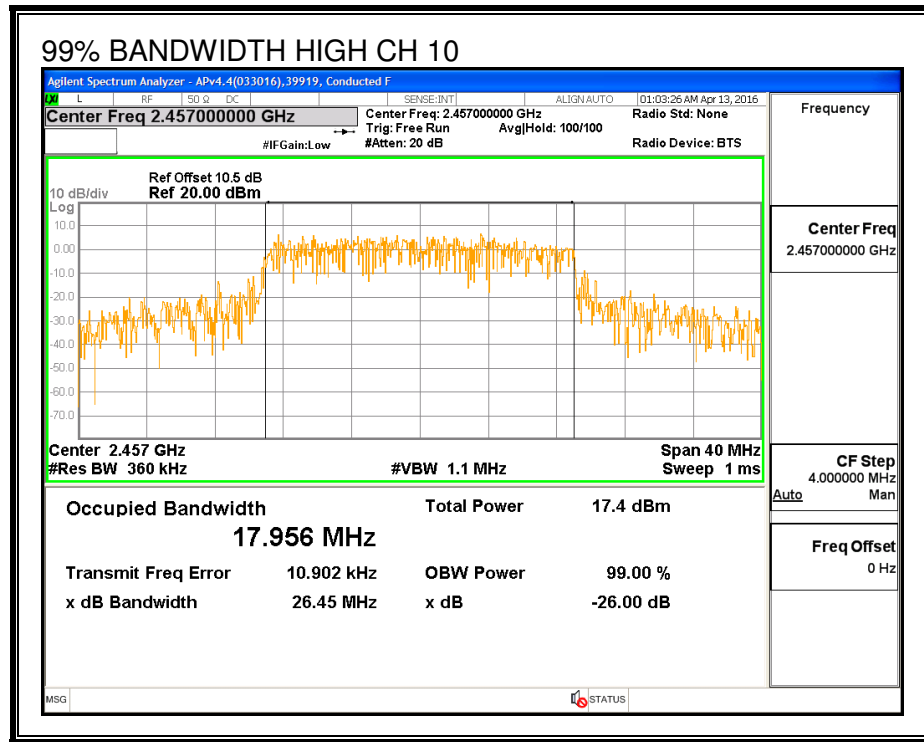


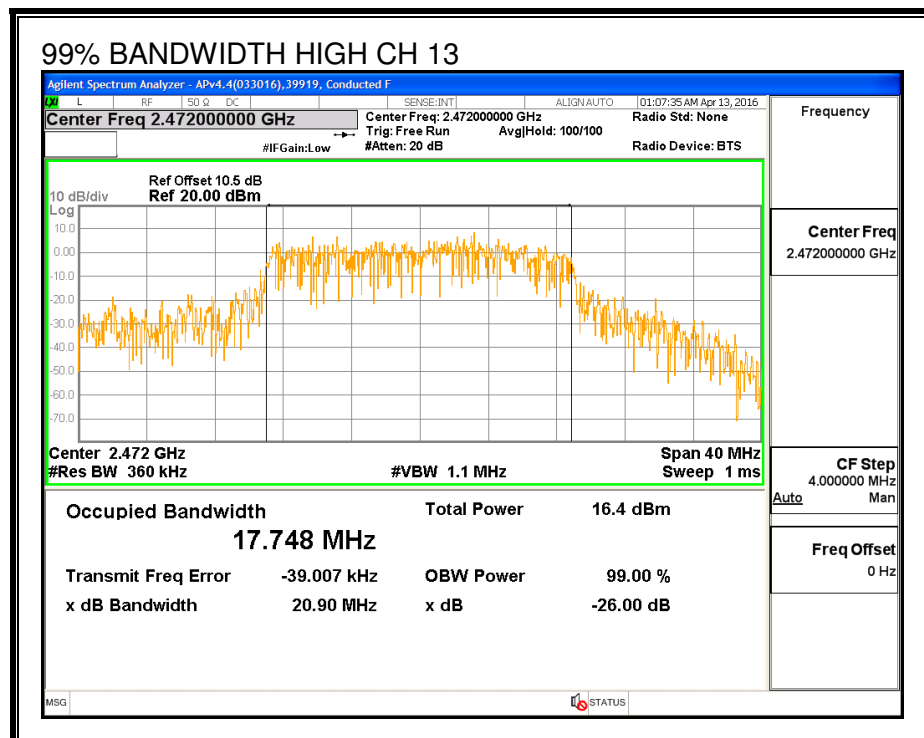
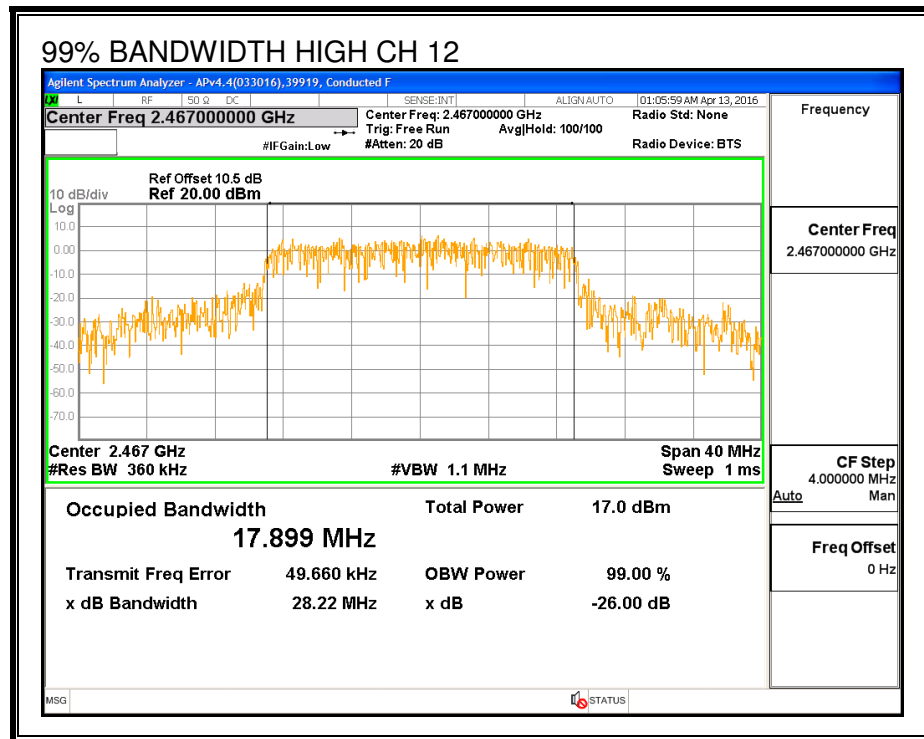


99% BANDWIDTH, Chain 1









8.7.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

ID:	39919	Date:	7/29/16
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Channel	Frequency (MHz)	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Total Power (dBm)
Low_1	2412	15.49	15.39	18.45
Low_2	2417	17.50	17.82	20.67
Mid_6	2437	17.48	18.92	21.27
High_10	2457	17.47	17.38	20.44
High_11	2462	14.49	14.38	17.45
High_12	2467	12.98	12.91	15.96
High_13	2472	4.85	4.73	7.80

8.7.4. 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 1 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
-2.54	-1.25	-1.85

RESULTS

ID:	39919	Date:	7/29/16
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Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
Low_1	2412	-1.85	30.00	30	36	30.00
Low_2	2417	-1.85	30.00	30	36	30.00
Mid_6	2437	-1.85	30.00	30	36	30.00
High_10	2457	-1.85	30.00	30	36	30.00
High_11	2462	-1.85	30.00	30	36	30.00
High_12	2467	-1.85	30.00	30	36	30.00
High_13	2472	-1.85	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 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margi (dB)
Low_1	2412	21.33	21.10	24.23	30.00	-5.77
Low_2	2417	24.13	24.11	27.13	30.00	-2.87
Mid_6	2437	24.24	25.25	27.78	30.00	-2.22
High_10	2457	24.20	24.08	27.15	30.00	-2.85
High_11	2462	20.31	20.22	23.28	30.00	-6.72
High_12	2467	17.62	17.33	20.49	30.00	-9.51
High_13	2472	10.53	10.46	13.51	30.00	-16.49

8.7.5. 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.

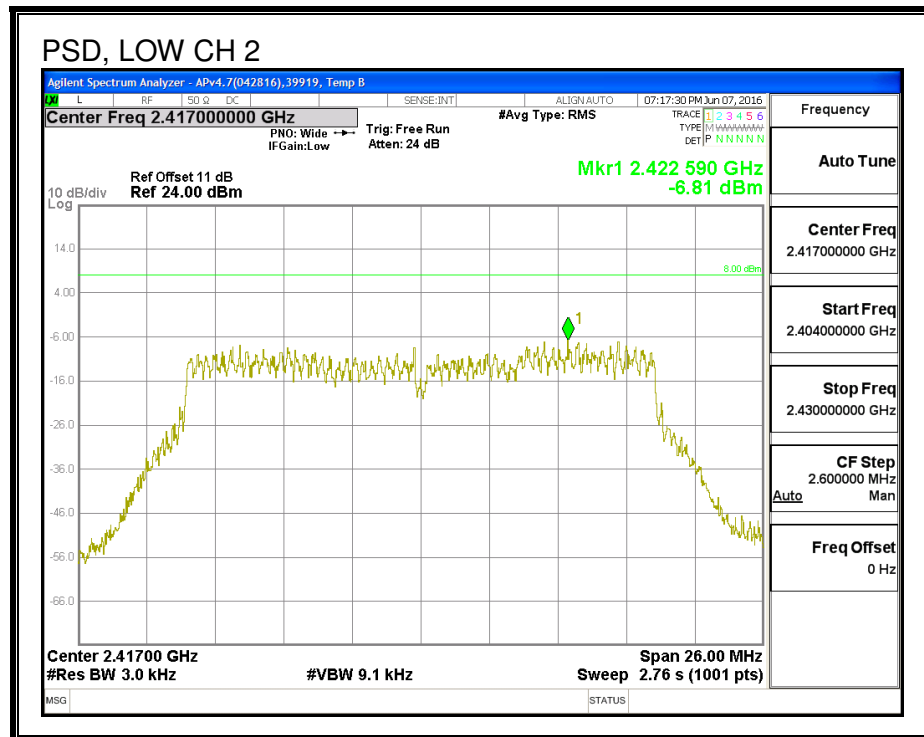
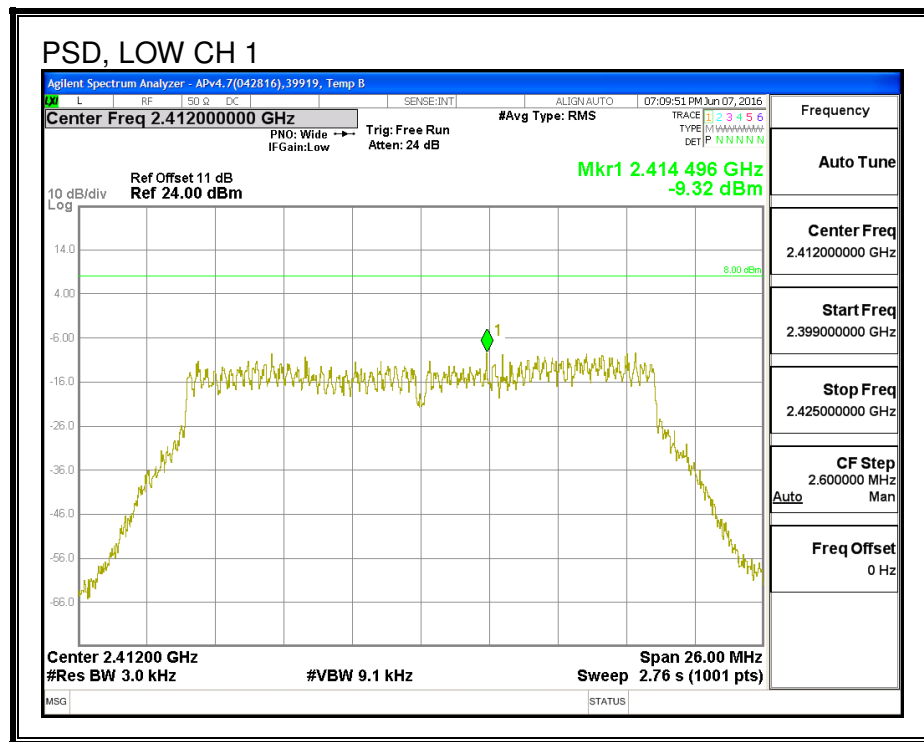
RESULTS

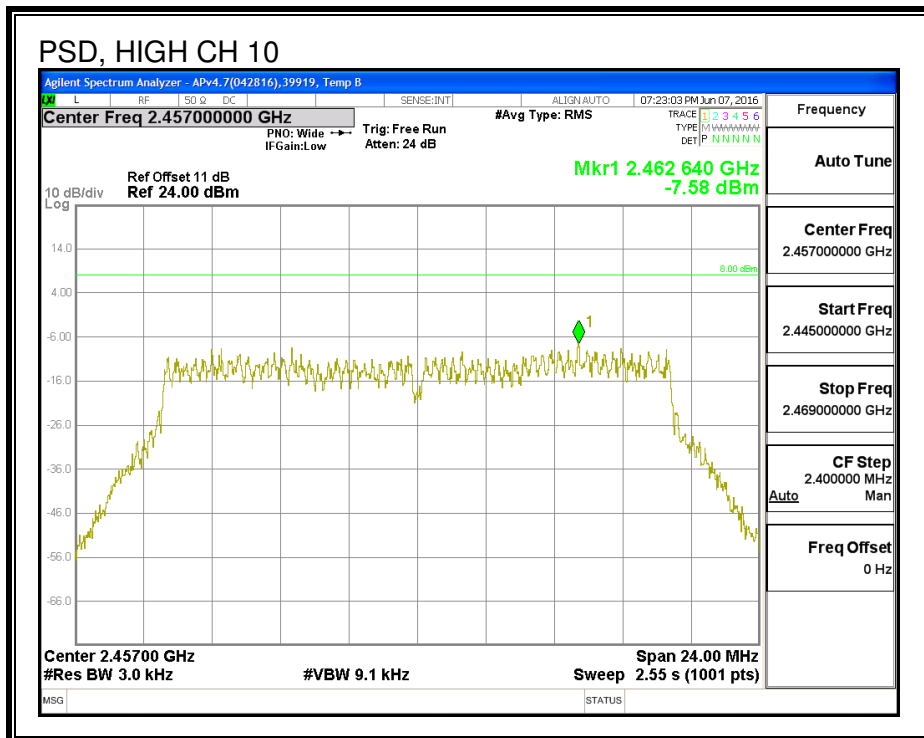
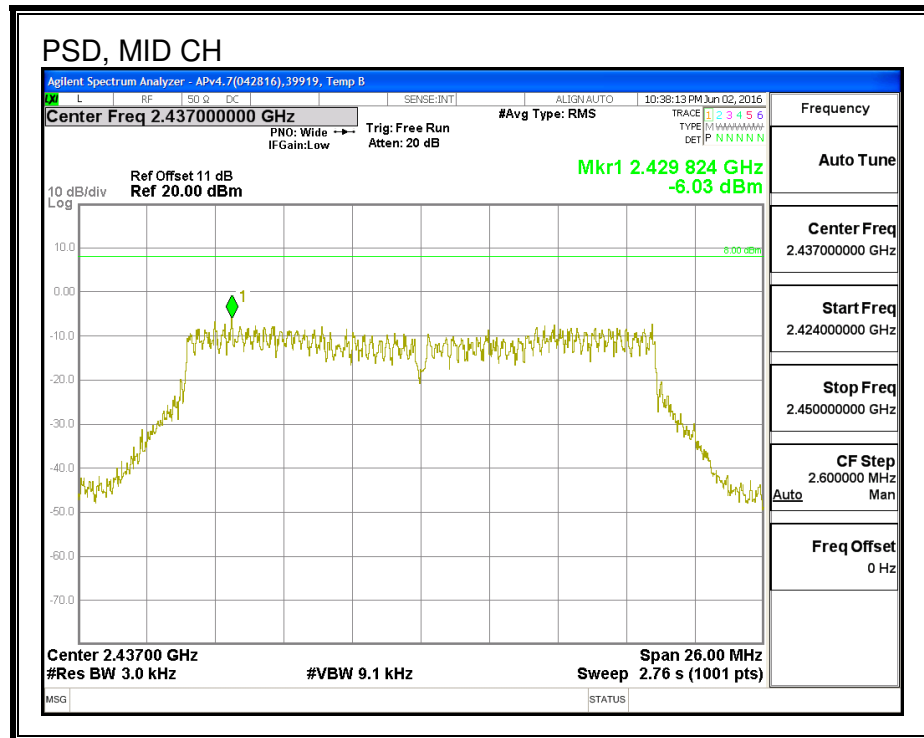
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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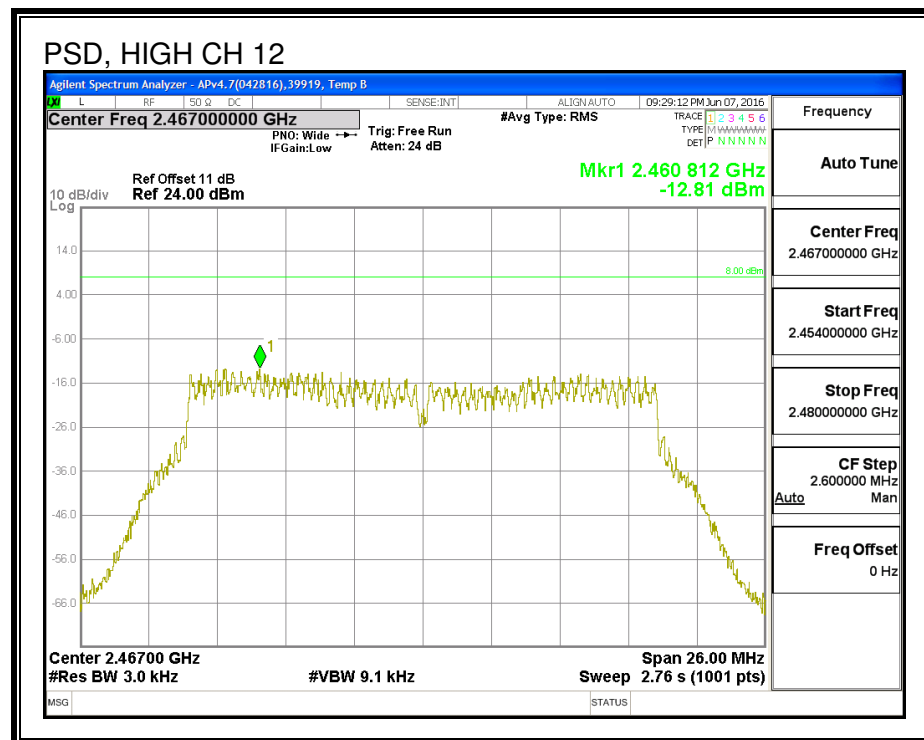
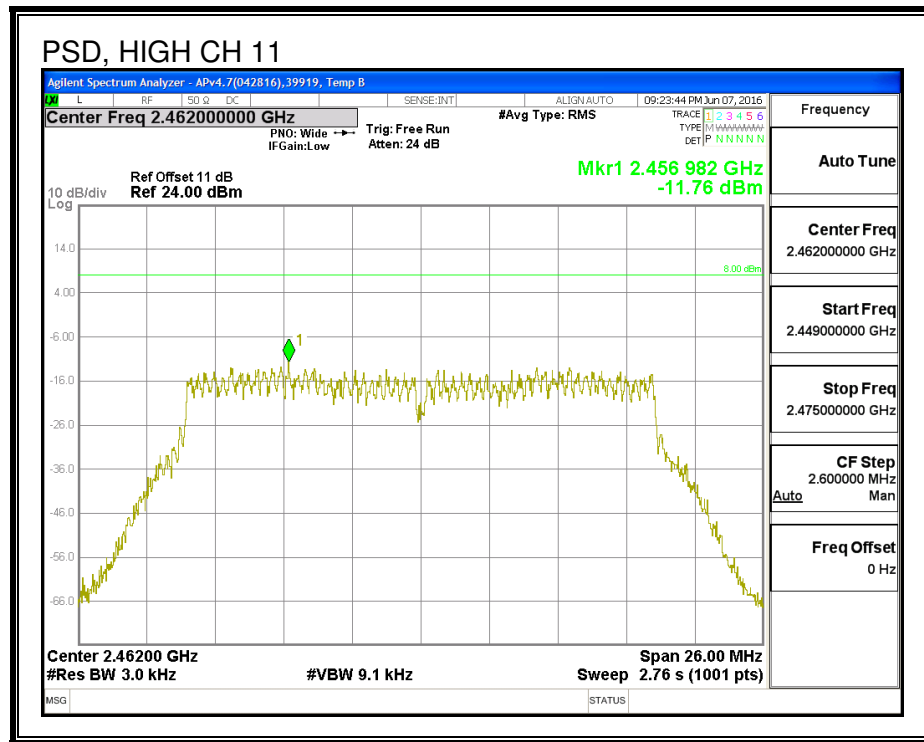
PSD Results

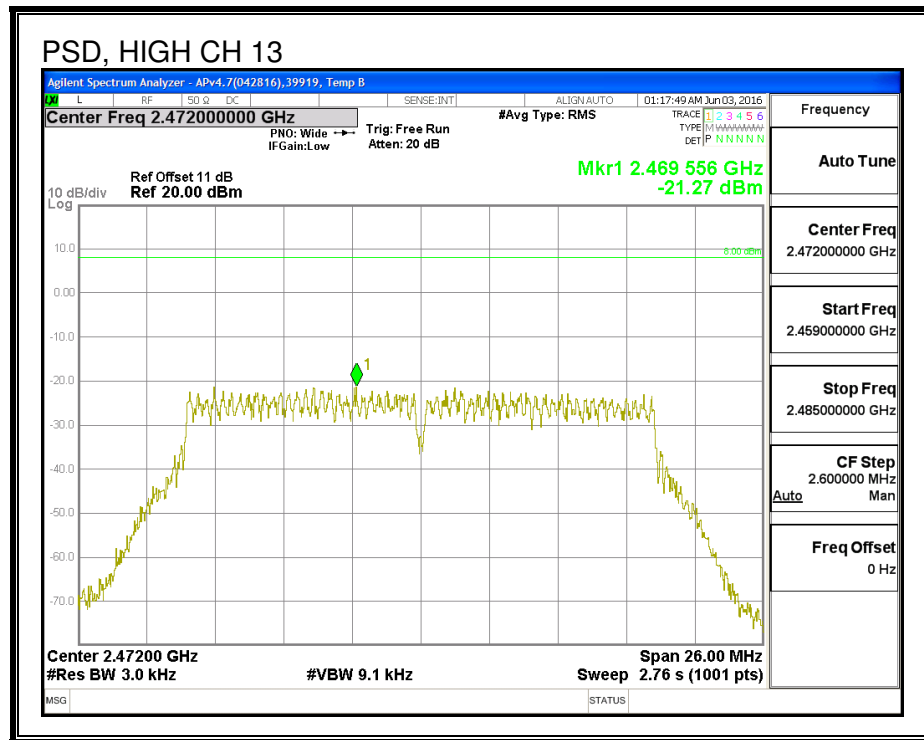
Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Chain 1 Meas (dBm)	Total Corr'd PSD (dBm)	Limit (dBm)	Margin (dB)
Low_1	2412	-9.32	-10.65	-6.92	8.0	-14.9
Low_2	2417	-6.81	-6.97	-3.88	8.0	-11.9
Mid_6	2437	-6.03	-6.84	-3.41	8.0	-11.4
High_10	2457	-7.58	-8.00	-4.77	8.0	-12.8
High_11	2462	-11.76	-12.54	-9.12	8.0	-17.1
High_12	2467	-12.81	-13.31	-10.04	8.0	-18.0
High_13	2472	-21.27	-21.86	-18.55	8.0	-26.5

PSD, Chain 0

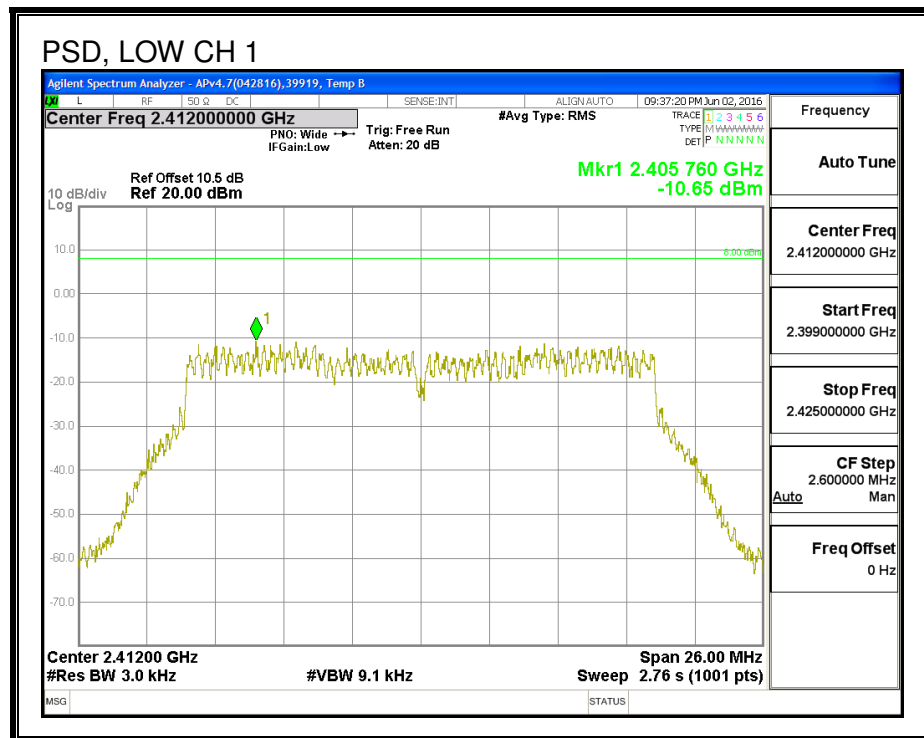


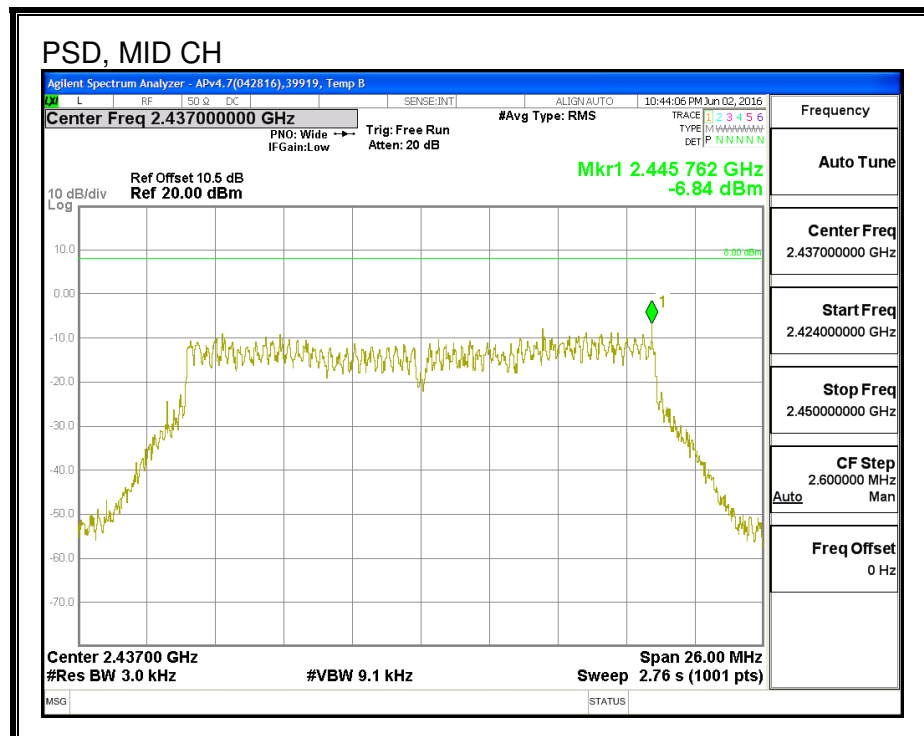
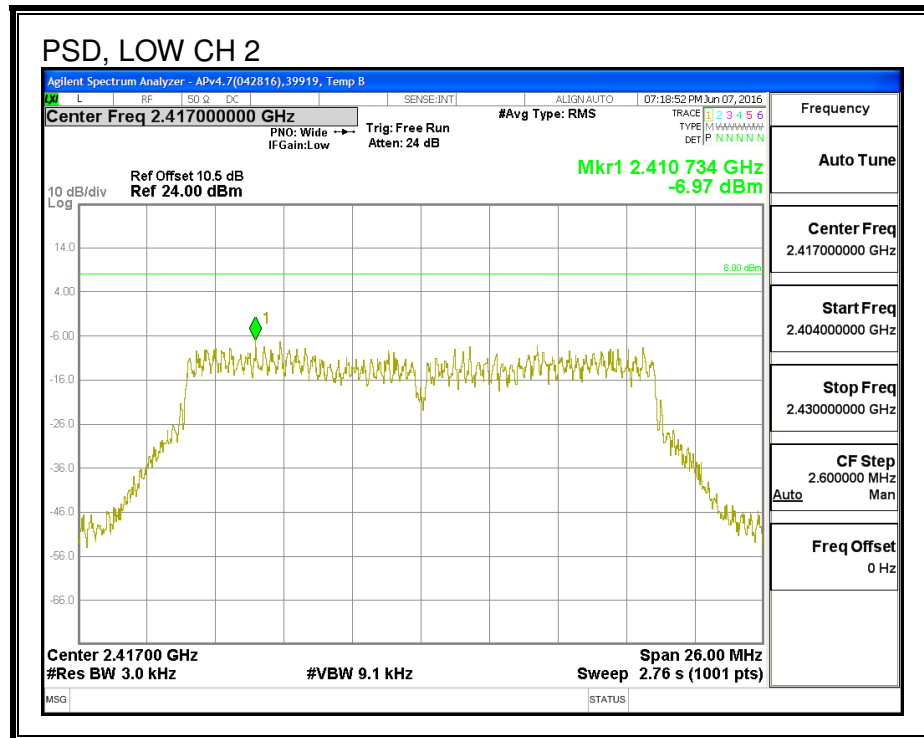


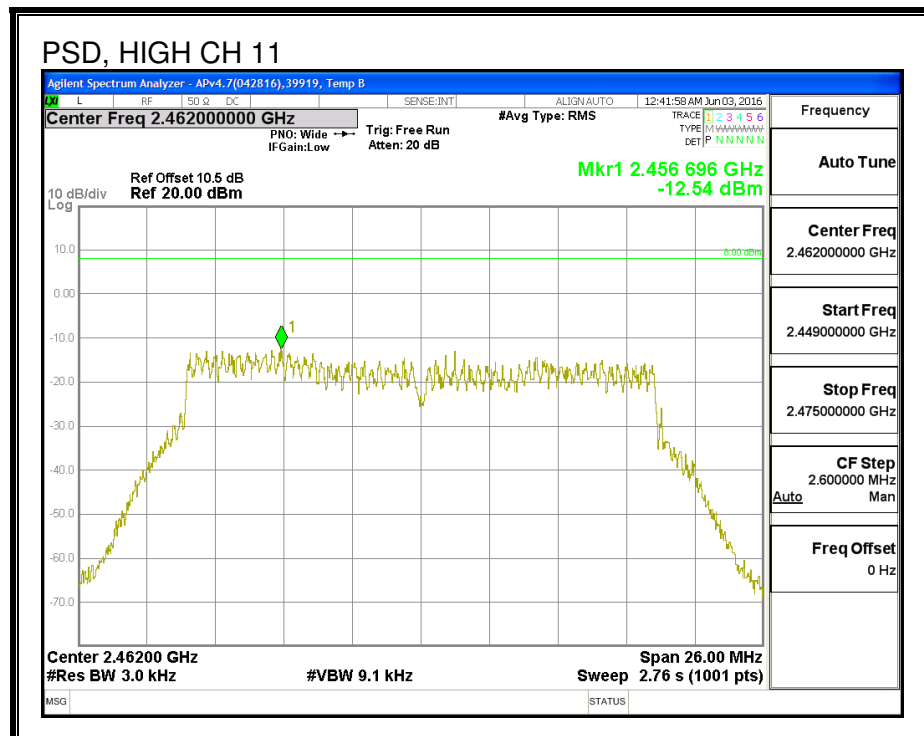
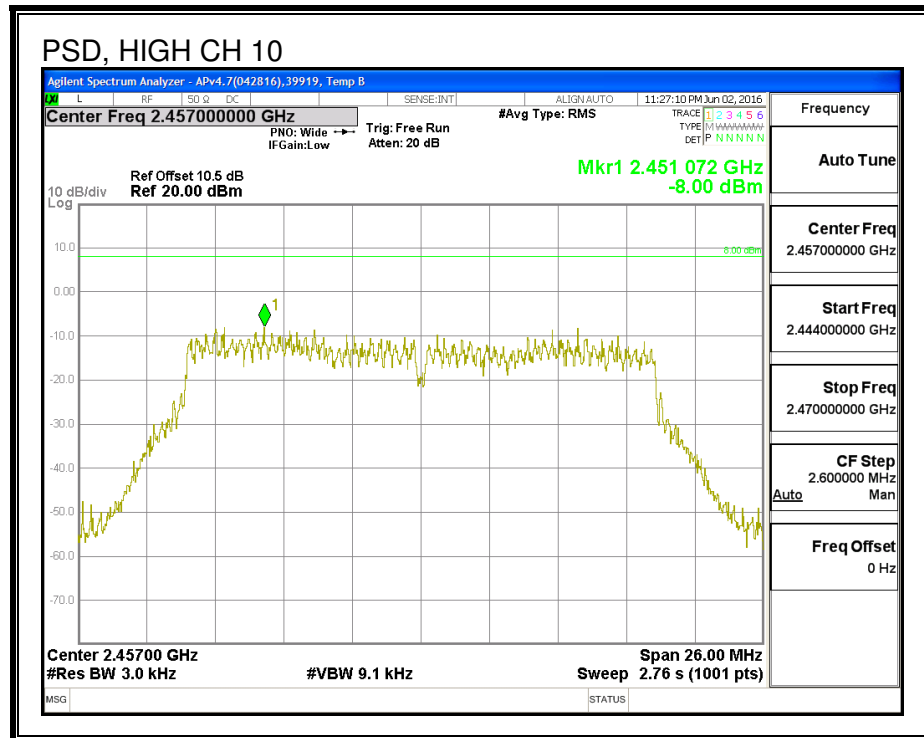


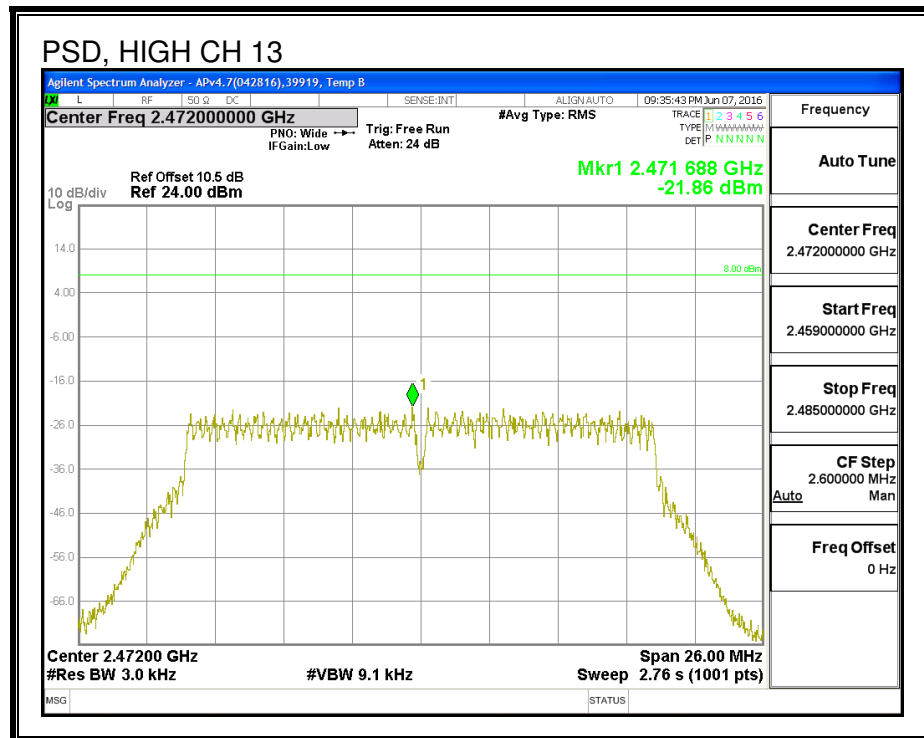
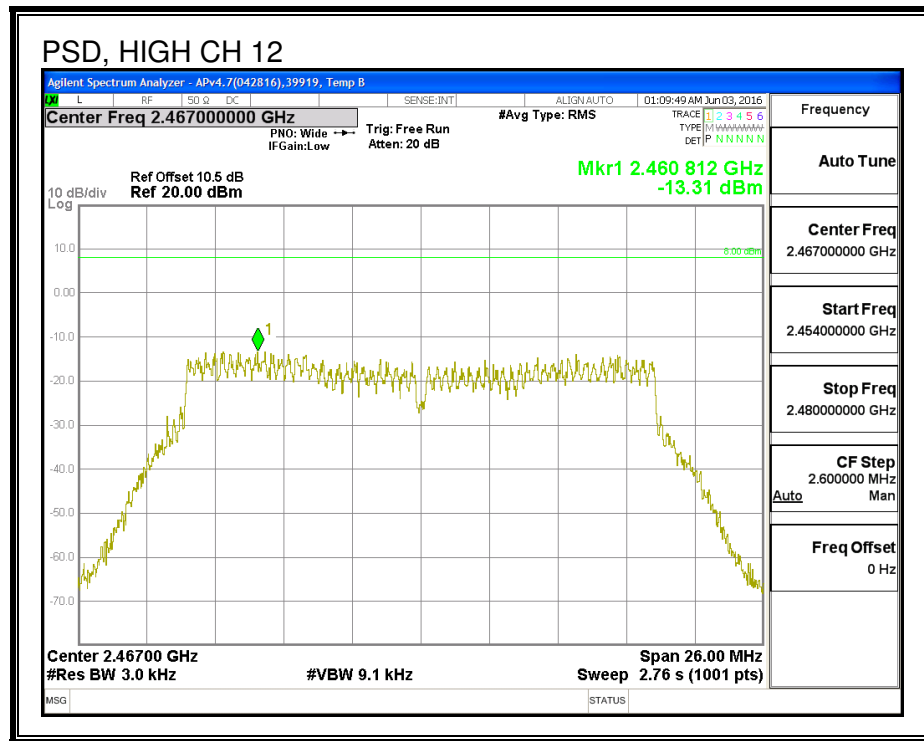


PSD, Chain 1









8.7.6. OUT-OF-BAND EMISSIONS

LIMITS

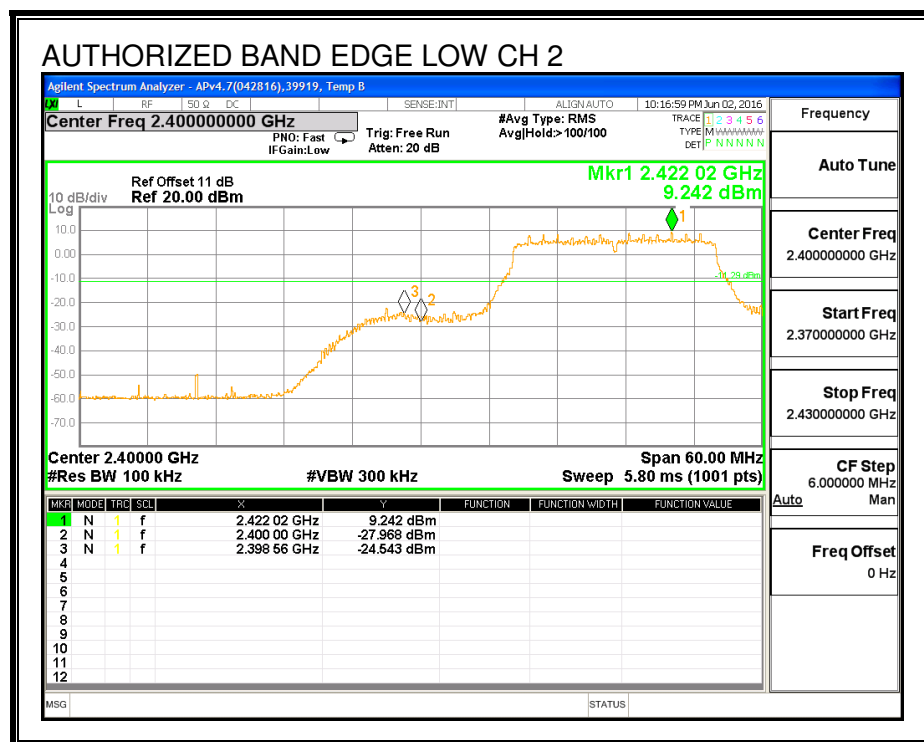
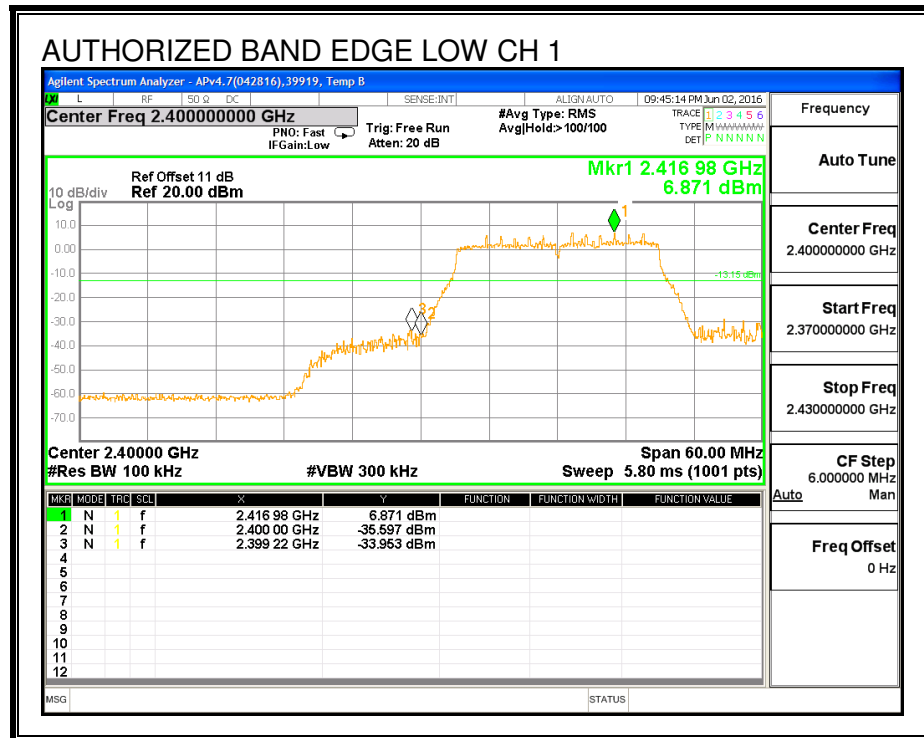
FCC §15.247 (d)

IC RSS-247 (5.5)

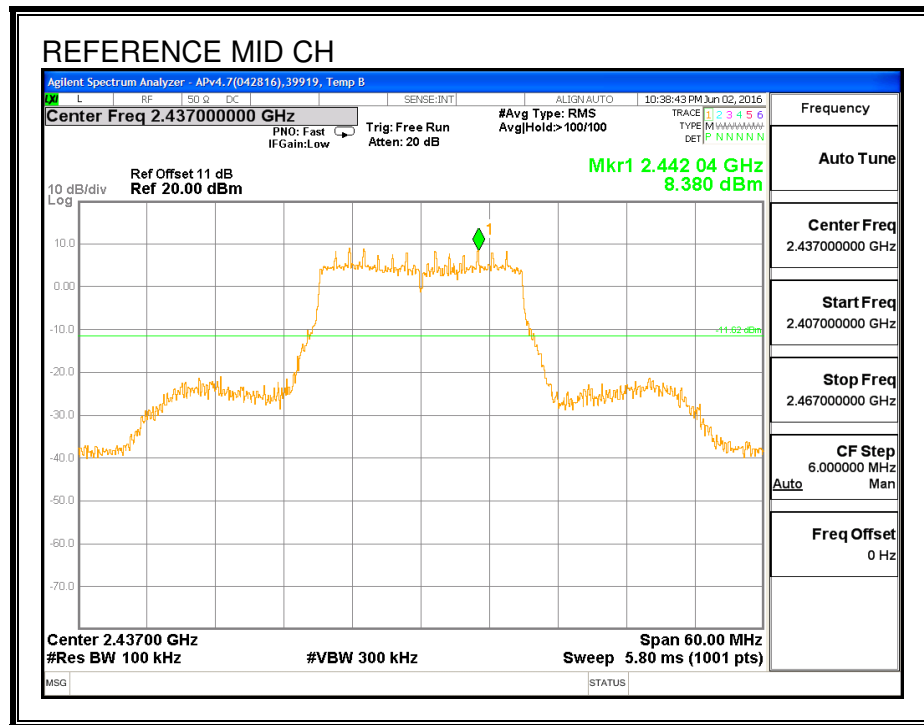
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the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

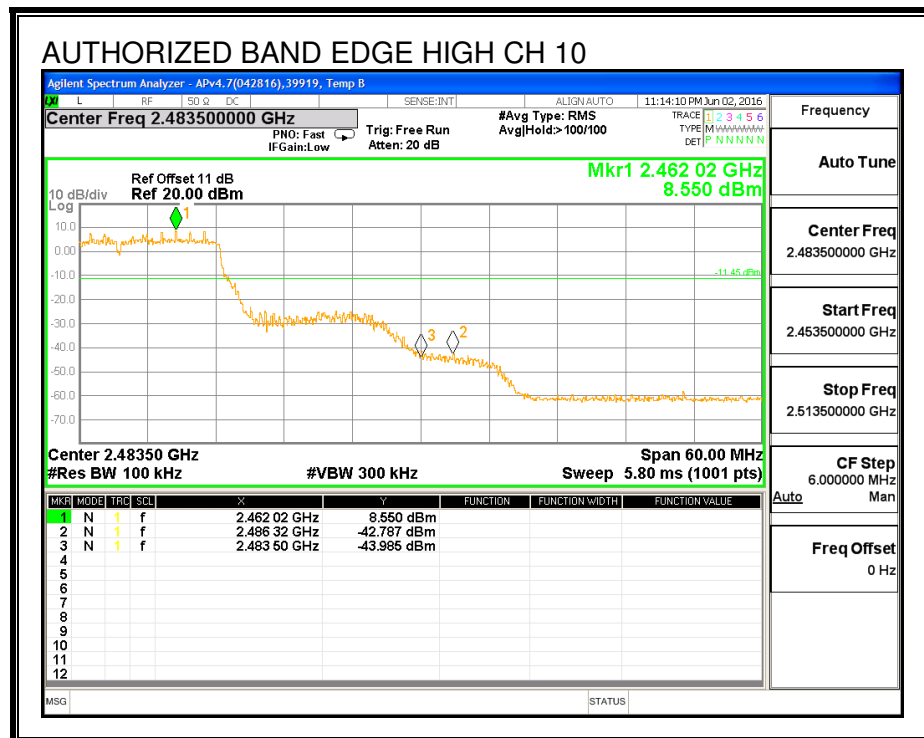
LOW CHANNEL BANDEDGE, Chain 0

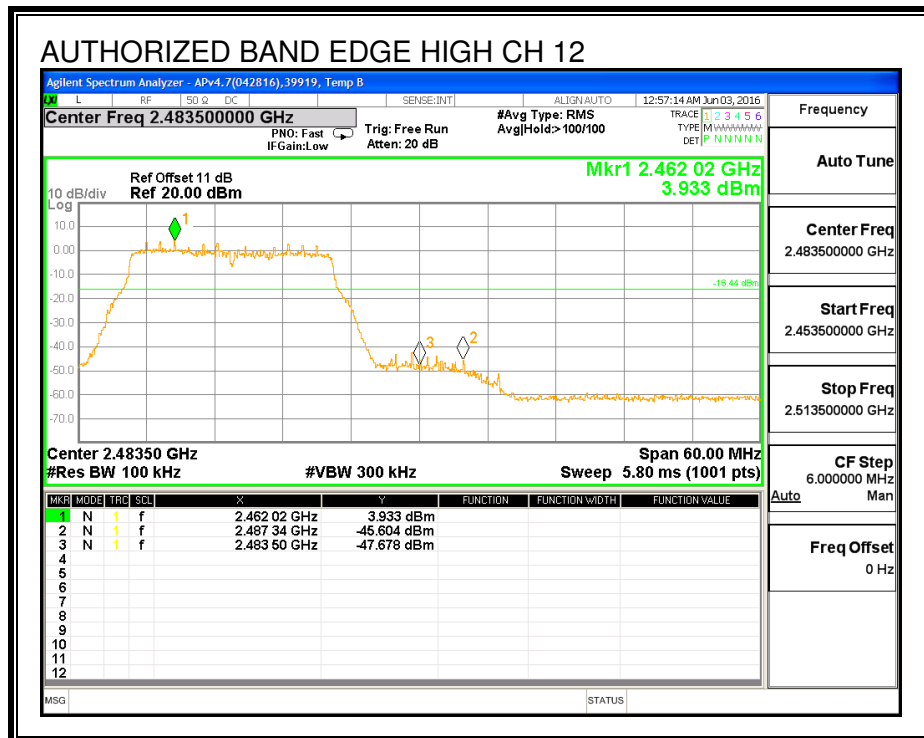
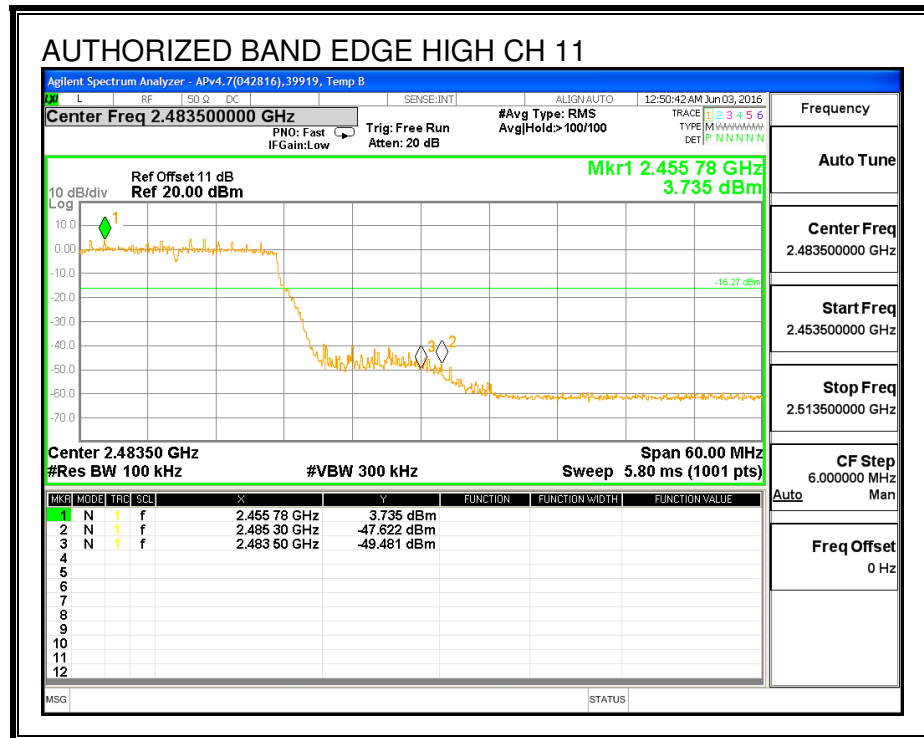


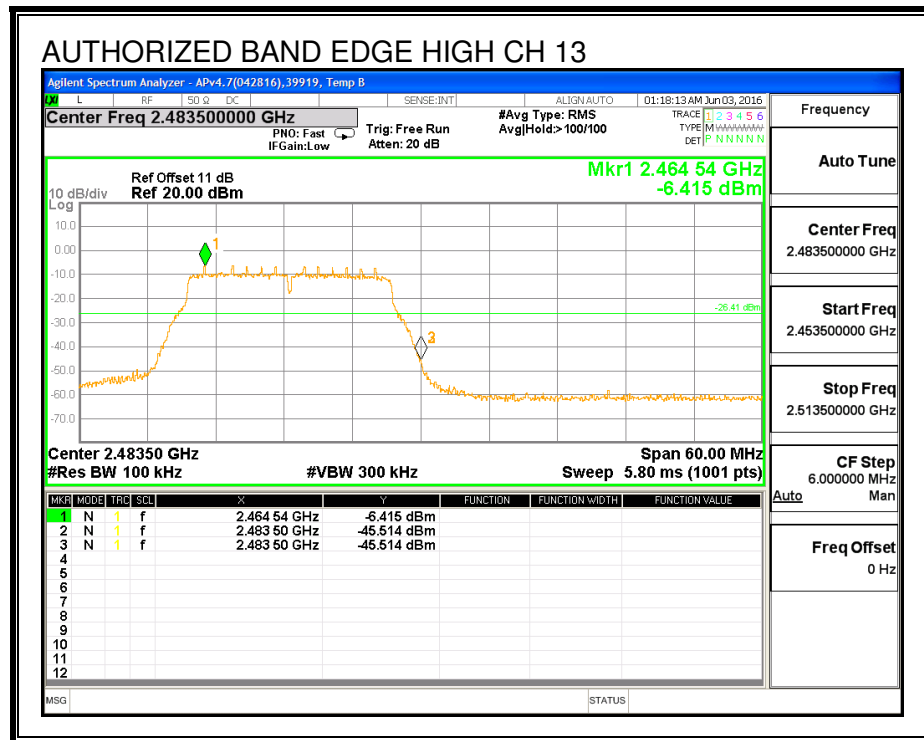
MID CHANNEL REFERENCE, Chain 0



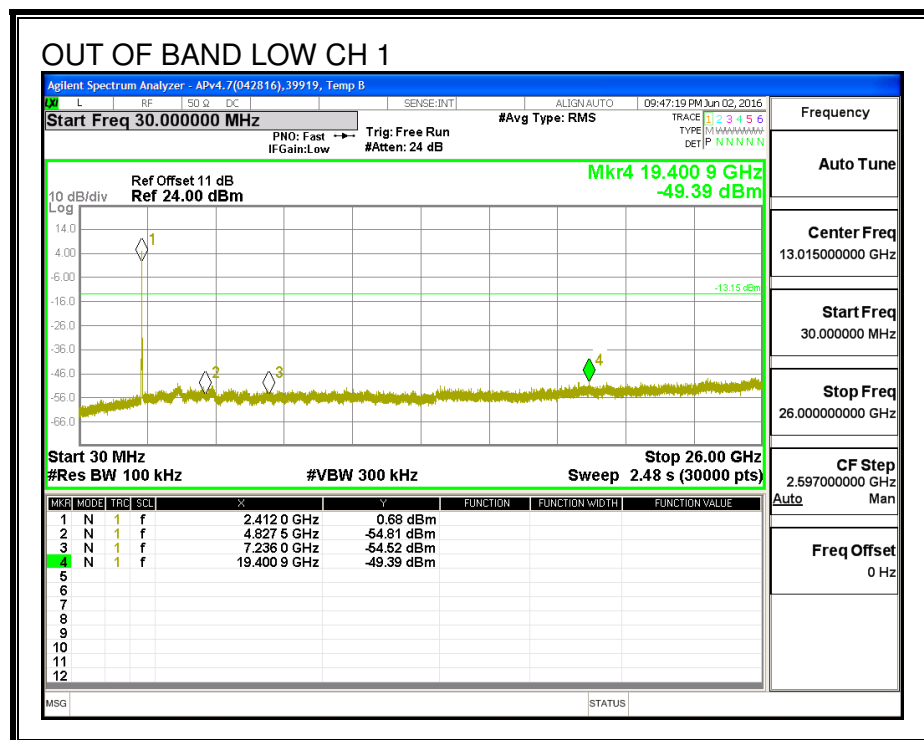
HIGH CHANNEL BANDEDGE, Chain 0

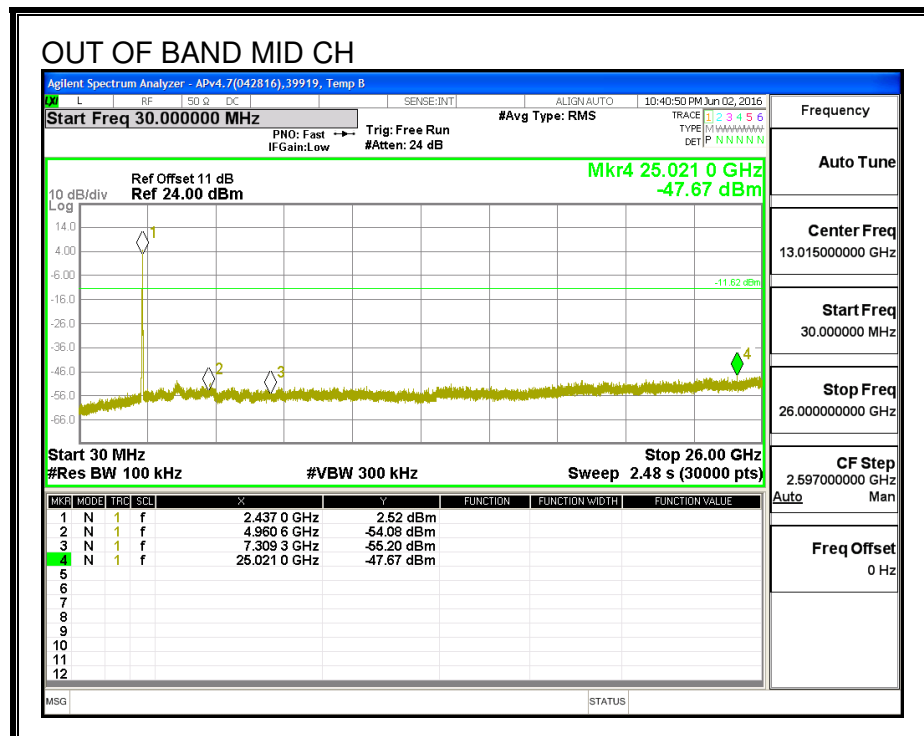
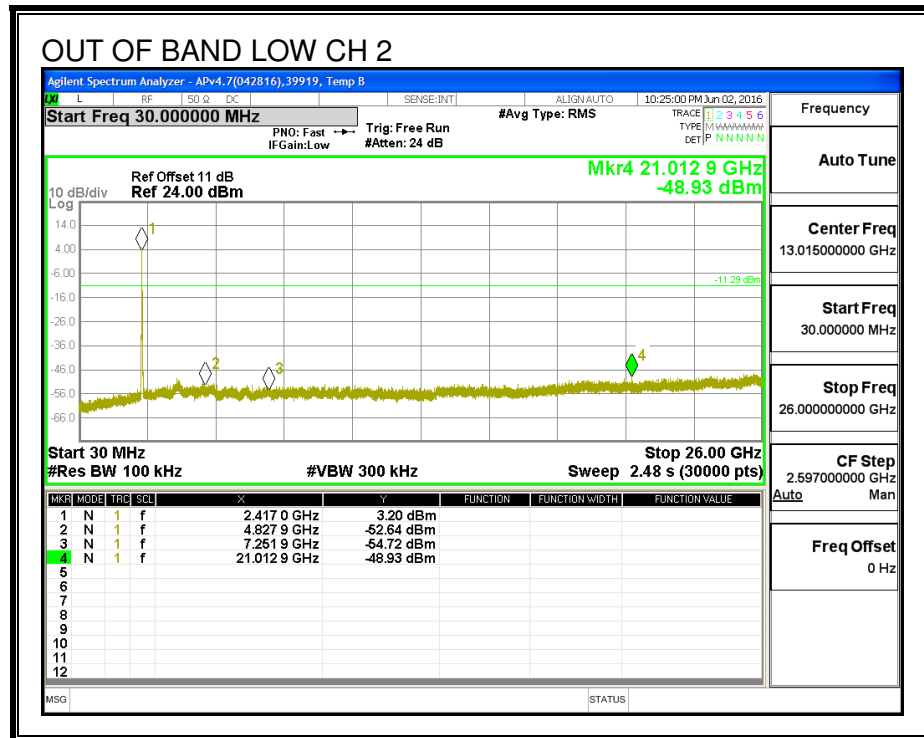


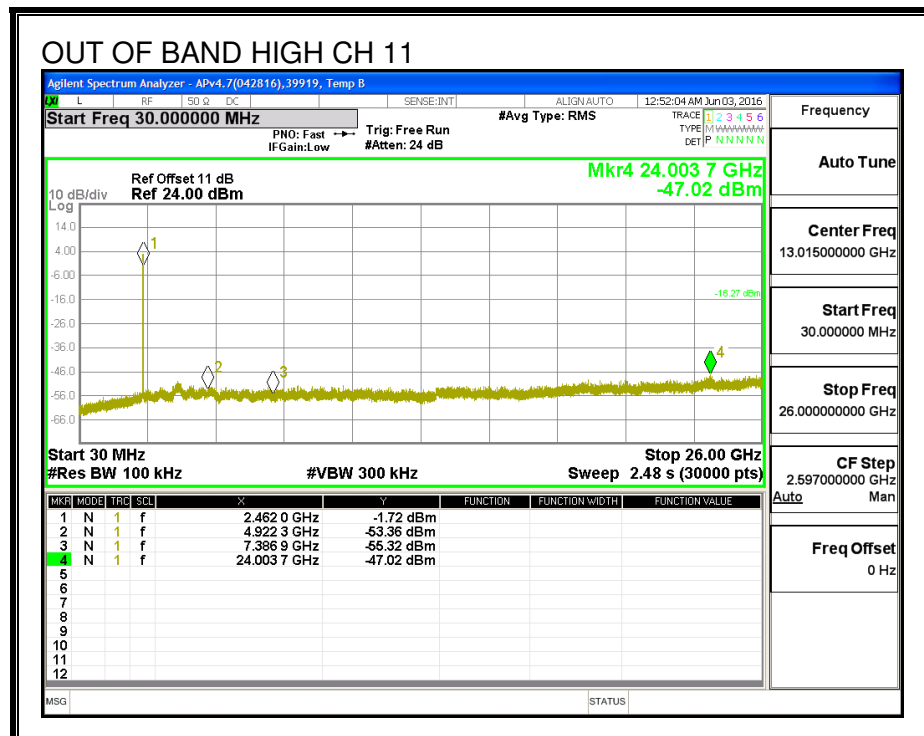
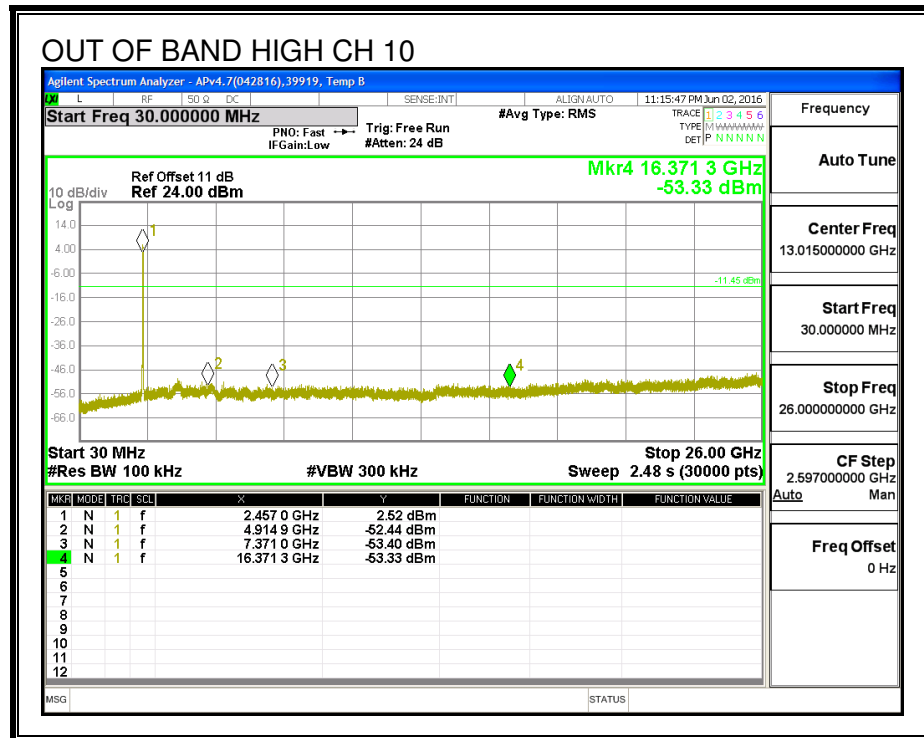


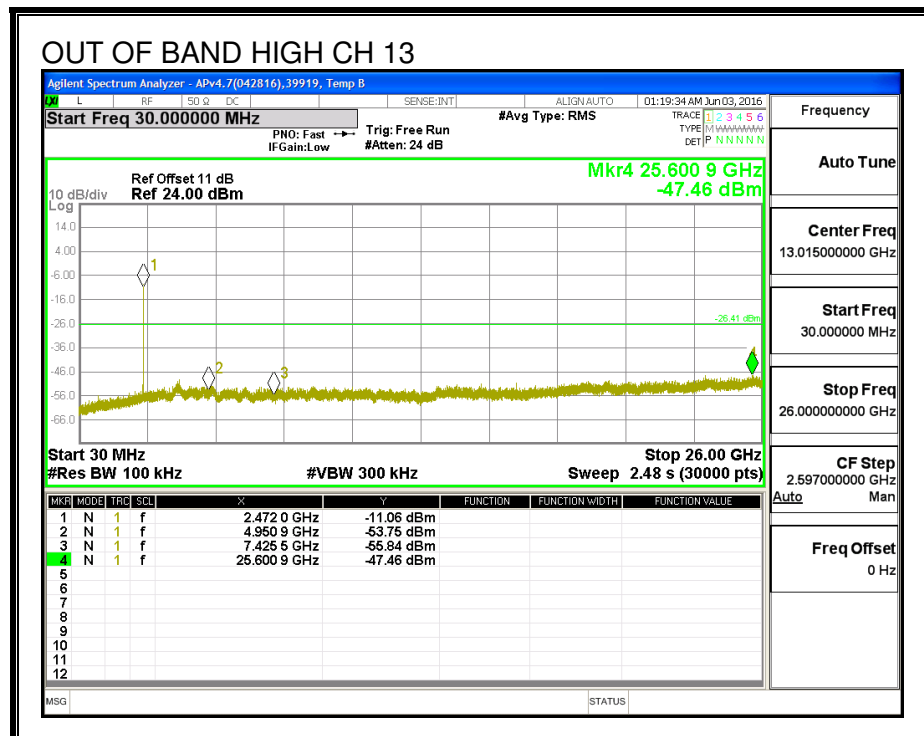
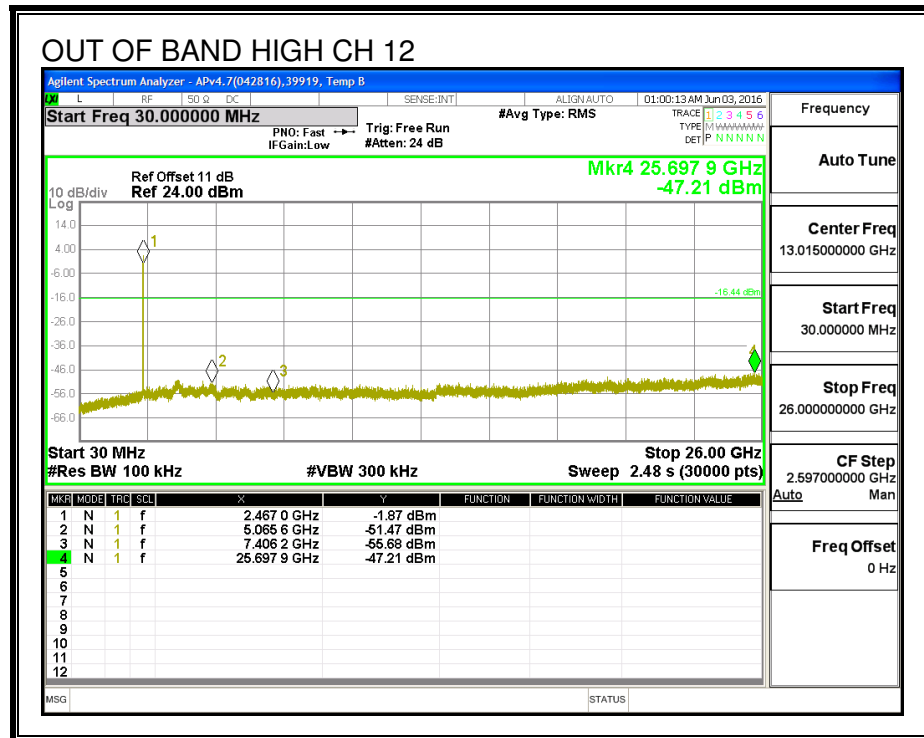


OUT-OF-BAND EMISSIONS, Chain 0

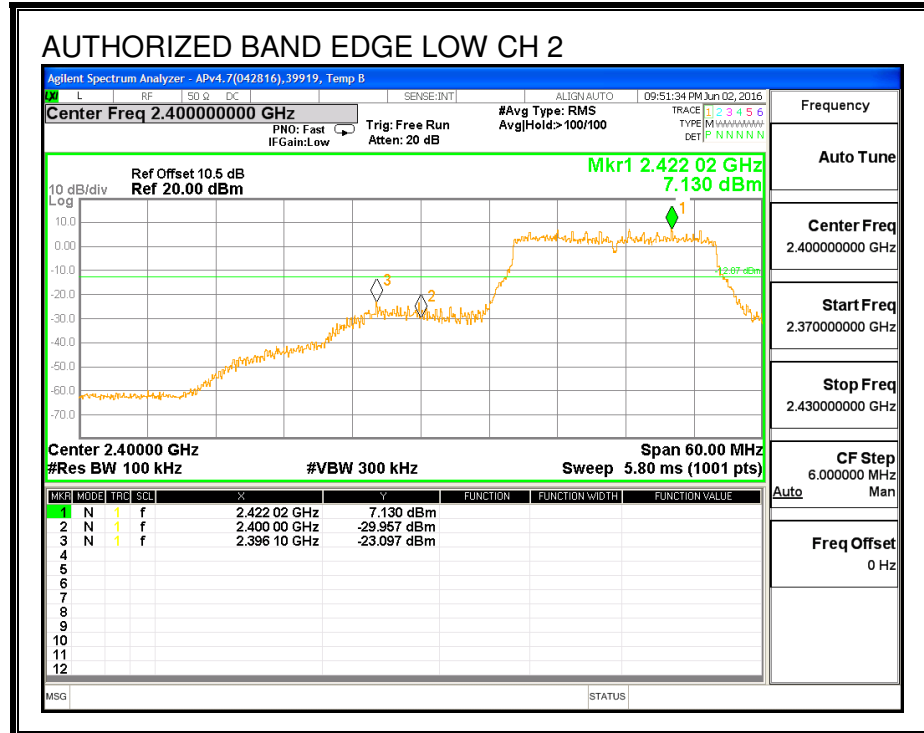
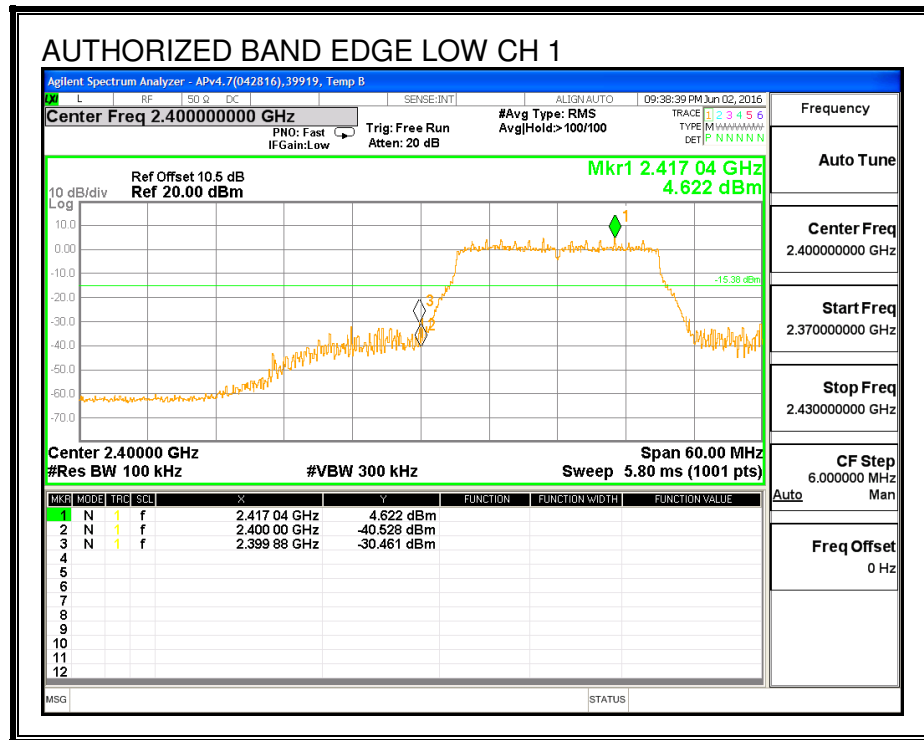




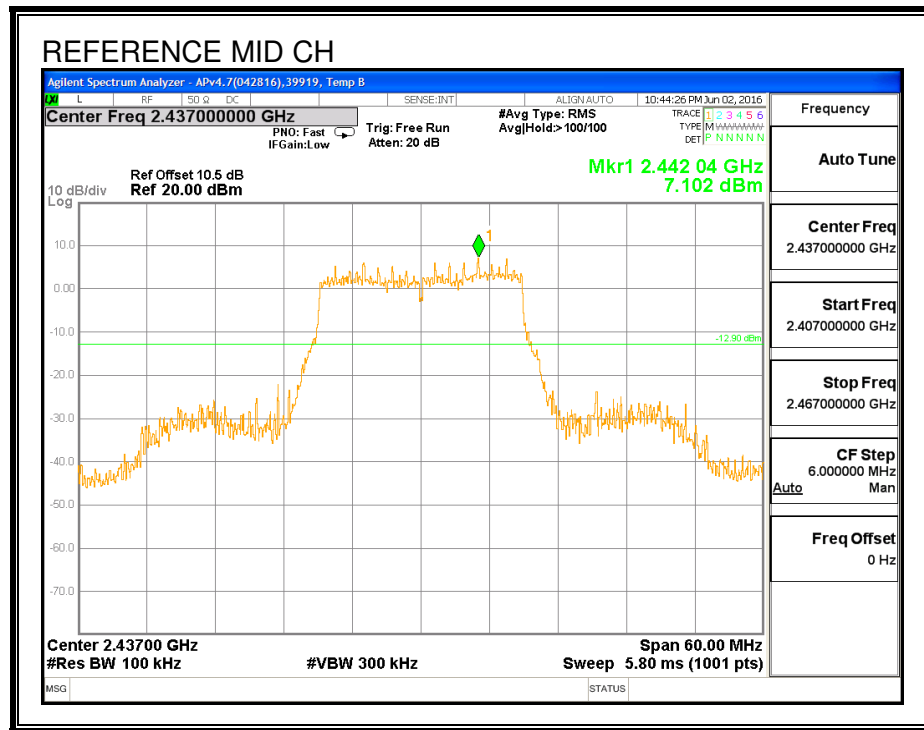




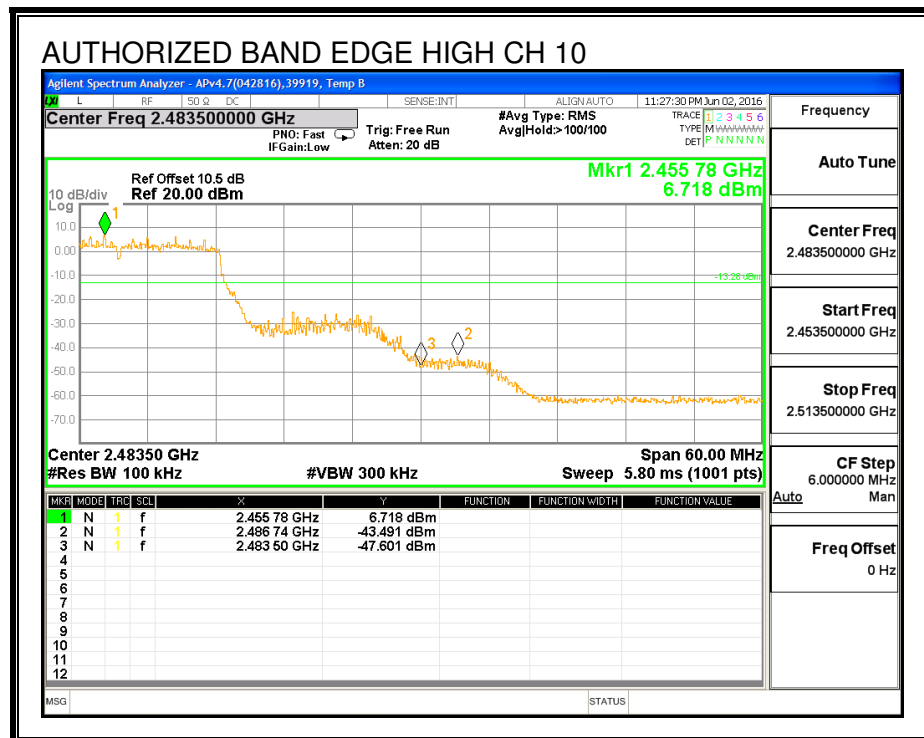
LOW CHANNEL BANDEDGE, Chain 1

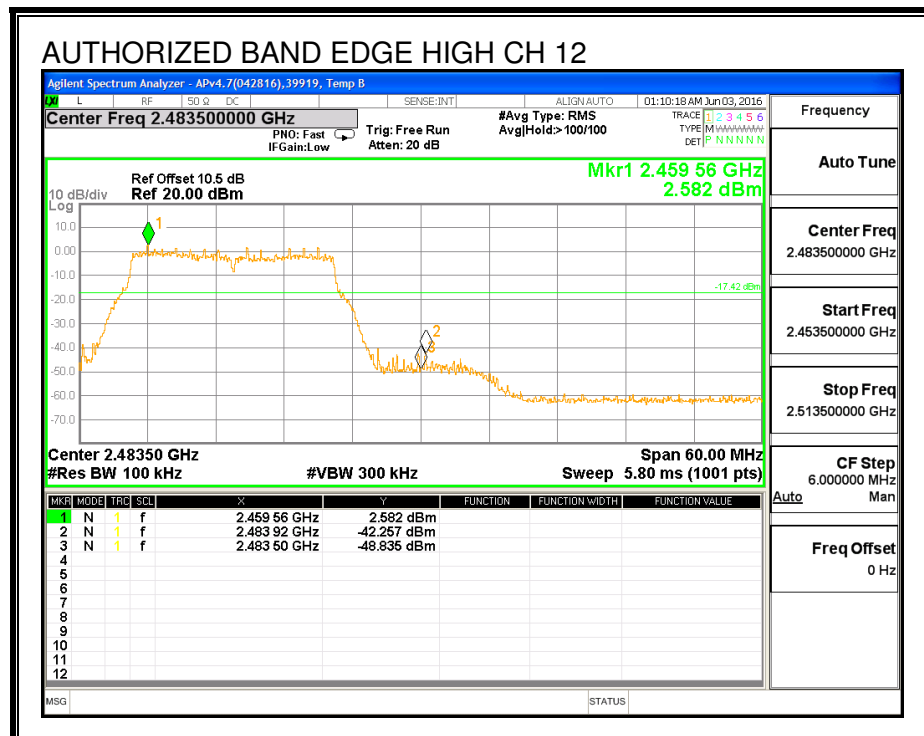
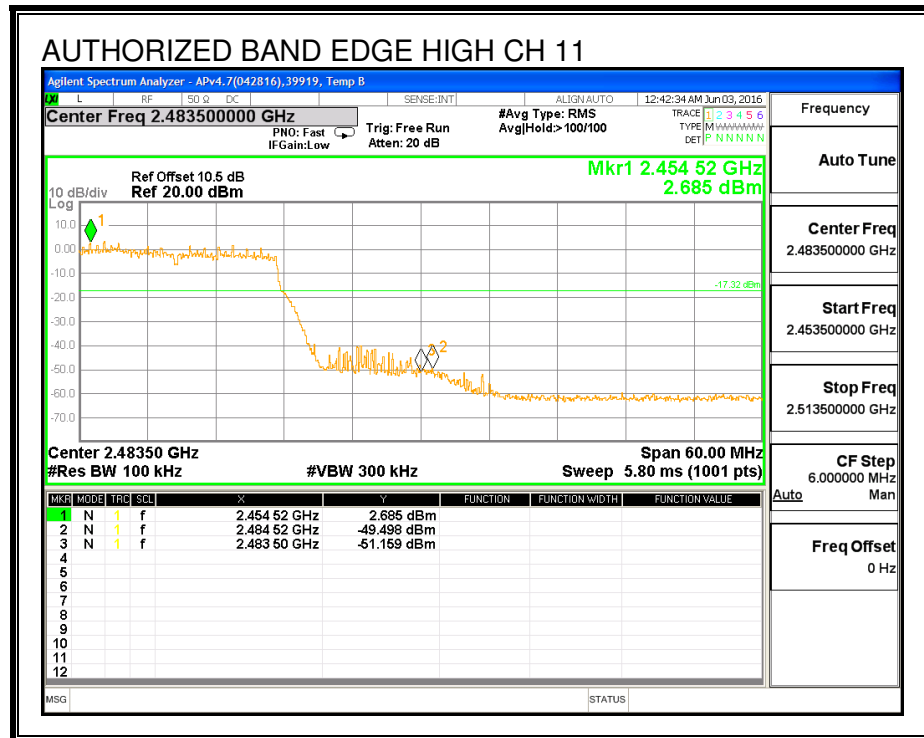


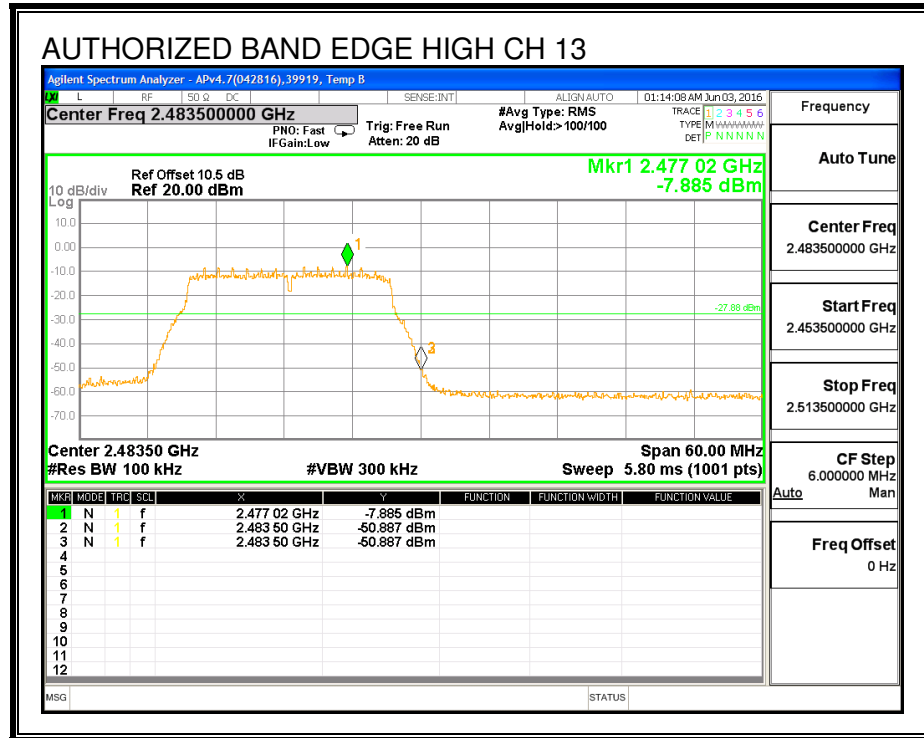
MID CHANNEL REFERENCE, Chain 1



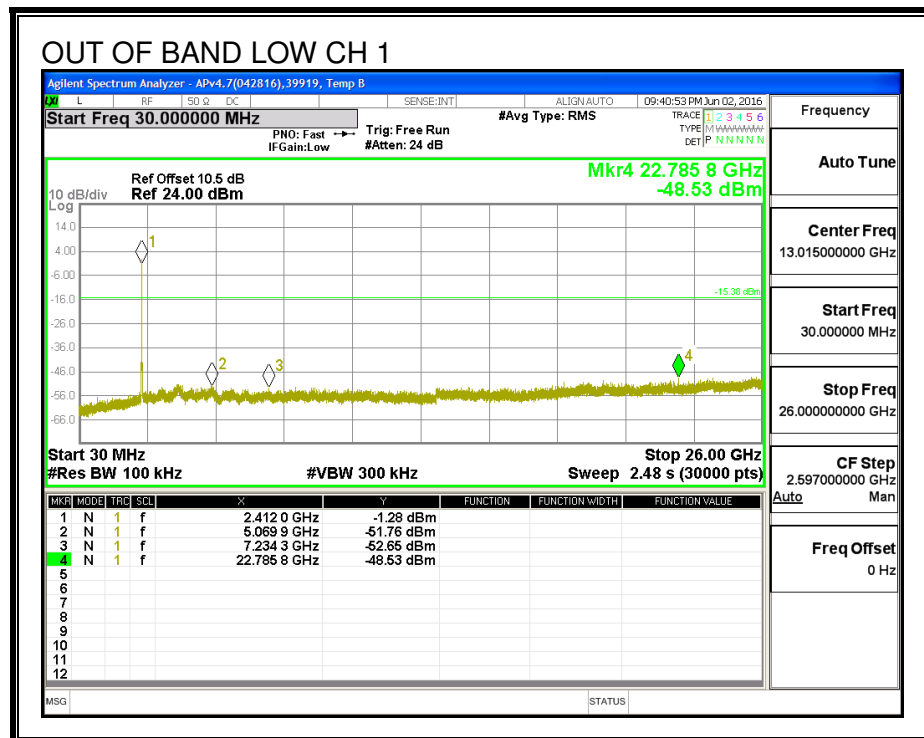
HIGH CHANNEL BANDEDGE, Chain 1

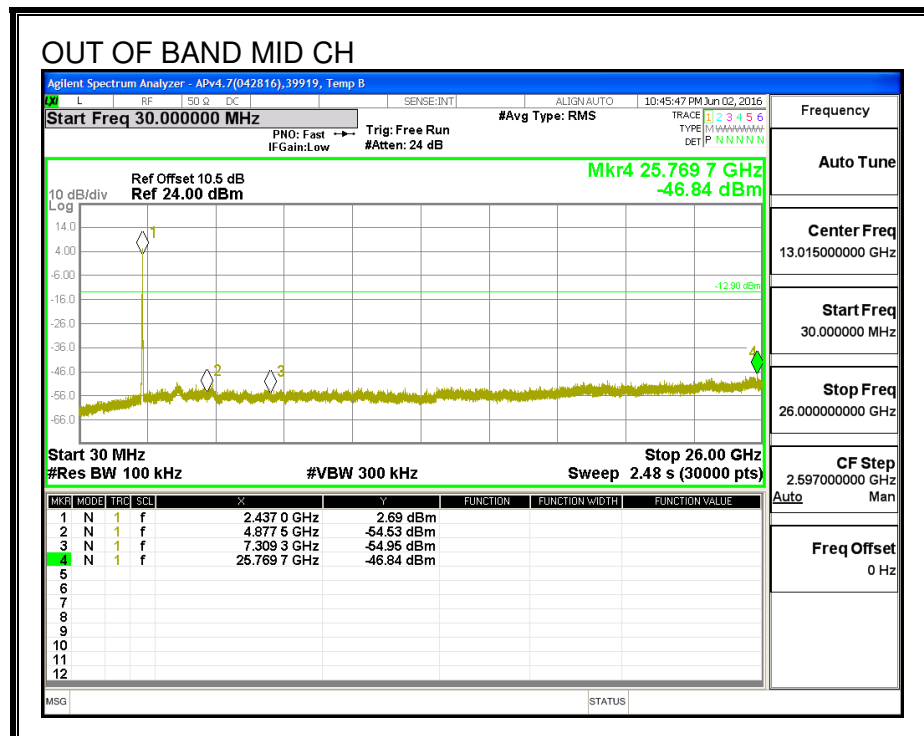
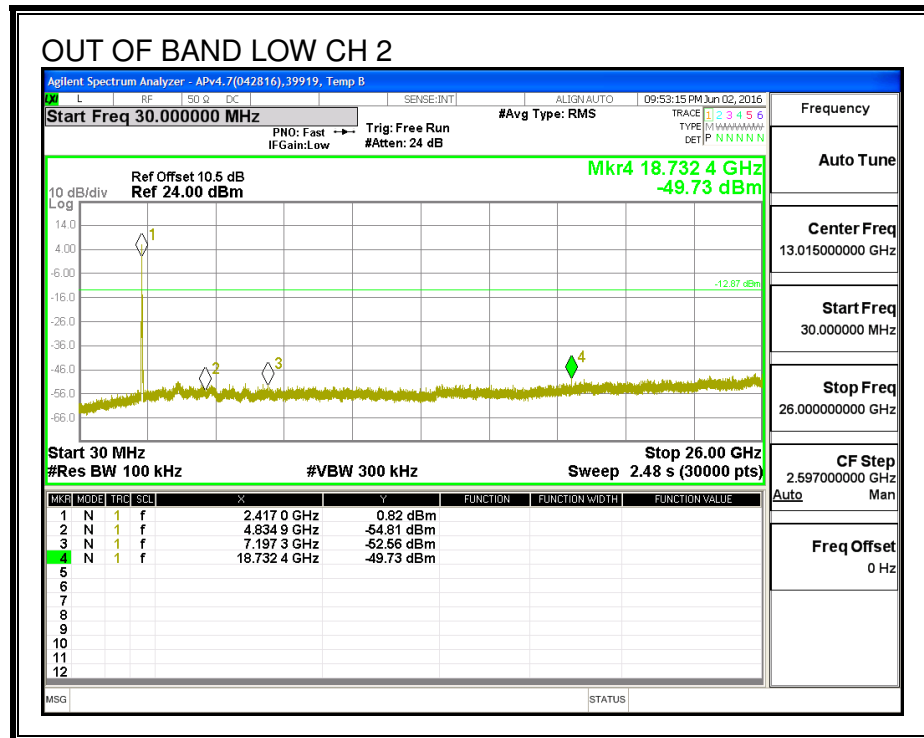


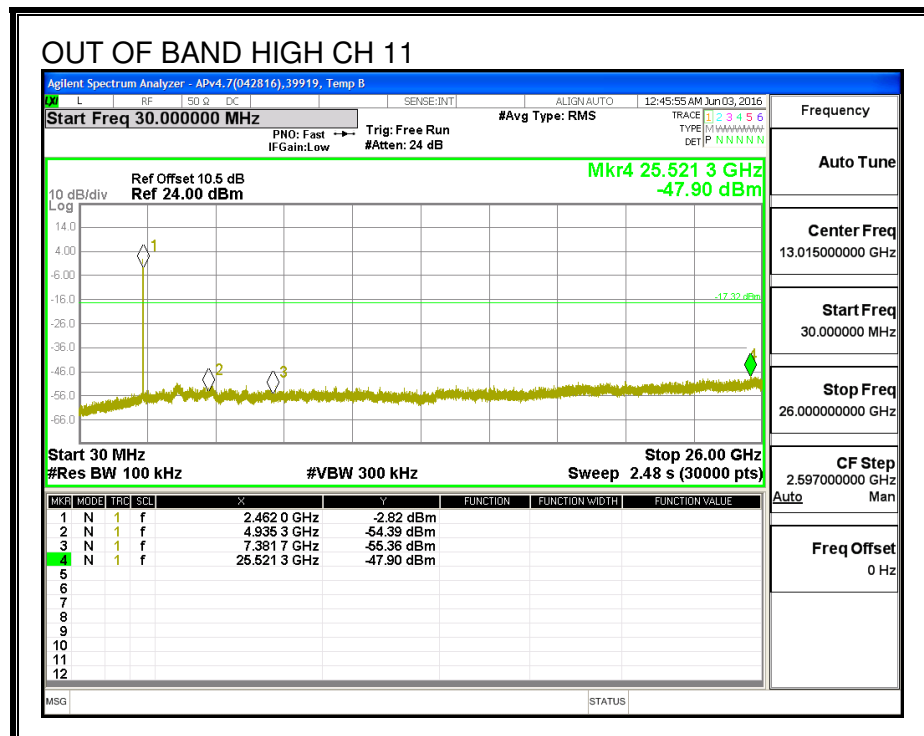
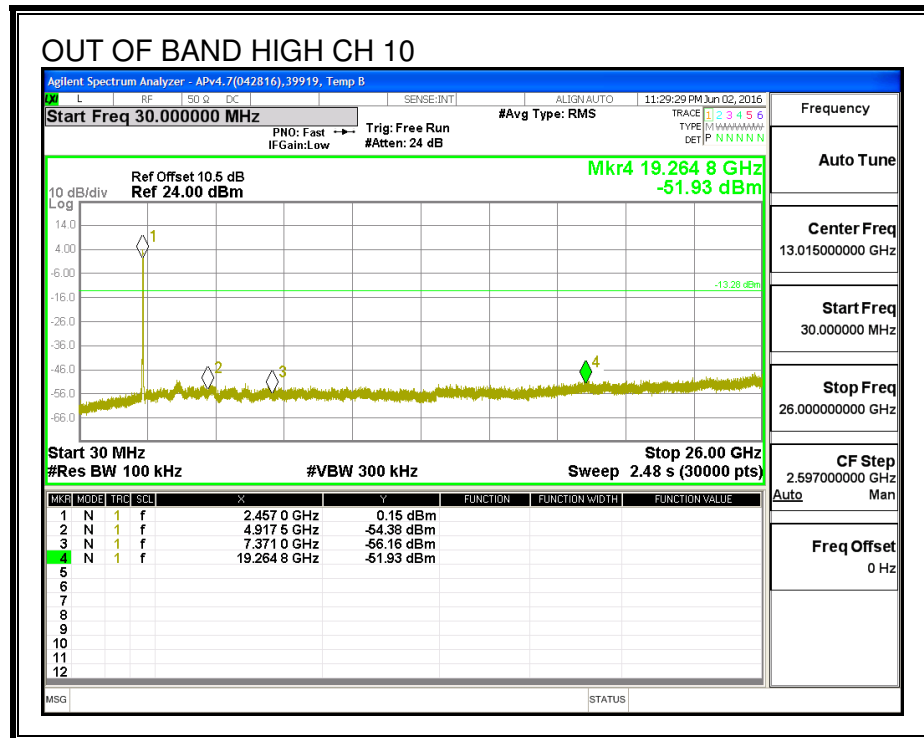


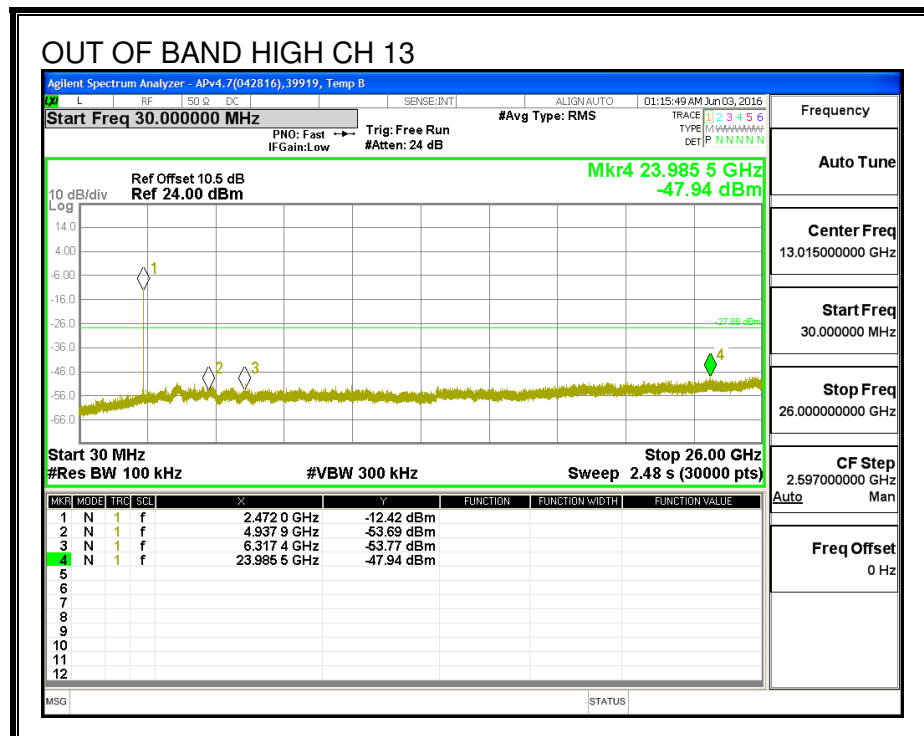
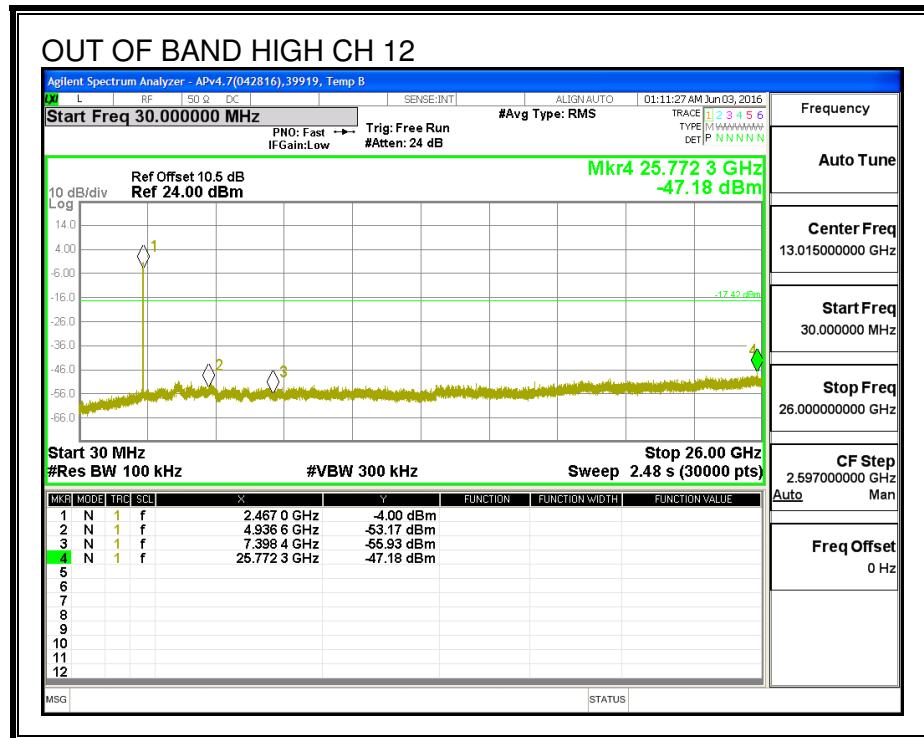


OUT-OF-BAND EMISSIONS, Chain 1









9. RADIATED TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-GEN, Section 8.9 and 8.10.

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 KHz for peak measurements.

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

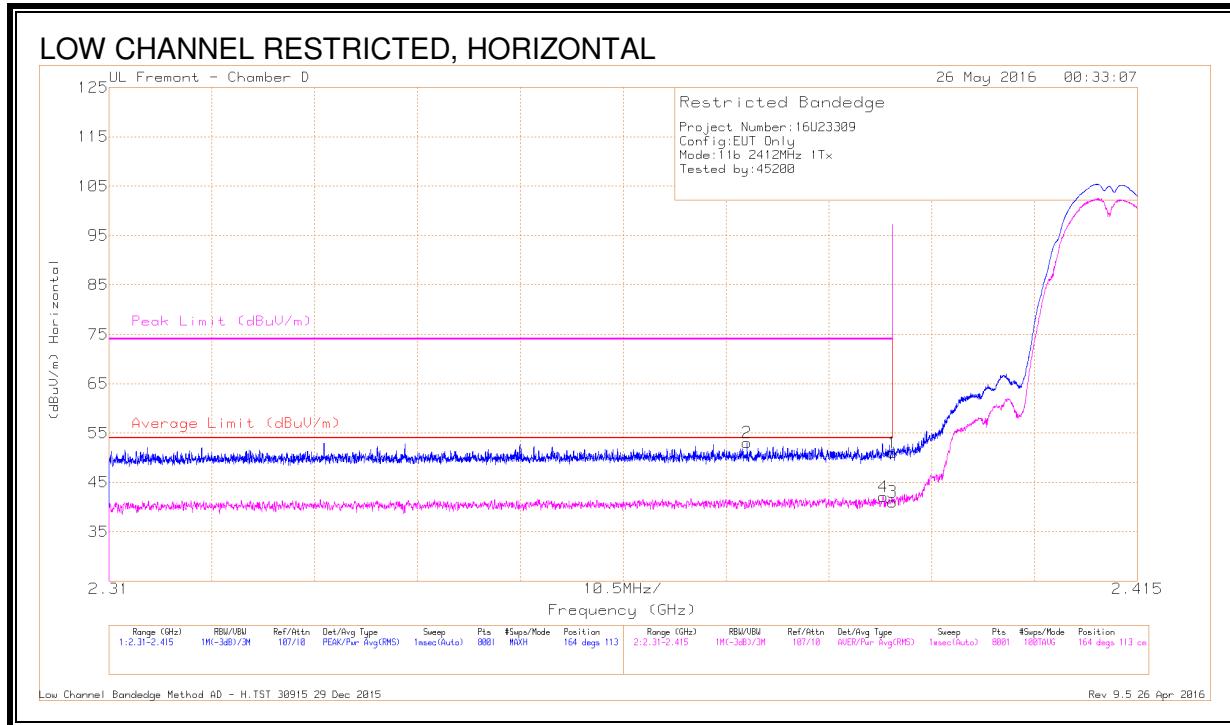
For 2.4 GHz band, the spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions

9.2. TRANSMITTER ABOVE 1 GHz

9.2.1. 802.11b 1Tx MODE IN THE 2.4 GHz BAND CHAIN 0

RESTRICTED BANDEGE (LOW CHANNEL, CH 1)



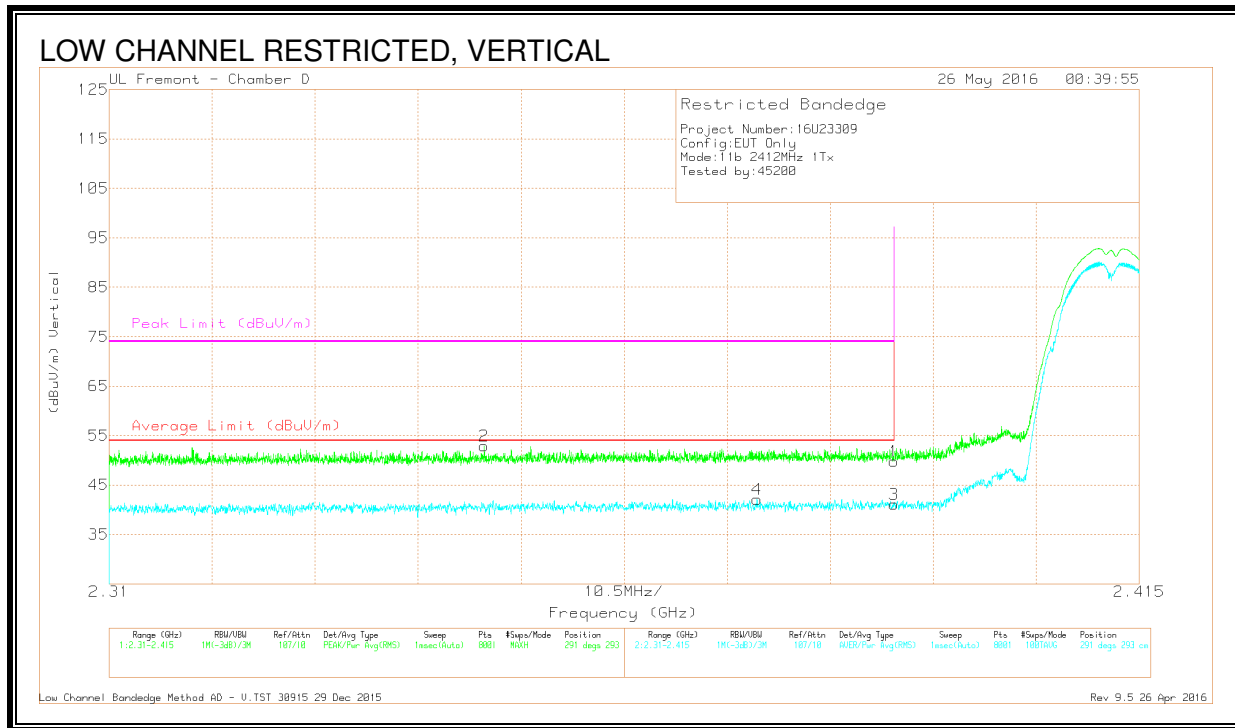
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cb/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.375	41.68	Pk	32	-20.6	53.08	-	-	74	-20.92	164	113	H
4	* 2.389	30.61	RMS	32.1	-20.6	42.11	54	-11.89	-	-	164	113	H
1	* 2.39	39.51	Pk	32.1	-20.6	51.01	-	-	74	-22.99	164	113	H
3	* 2.39	29.54	RMS	32.1	-20.6	41.04	54	-12.96	-	-	164	113	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection



DATA

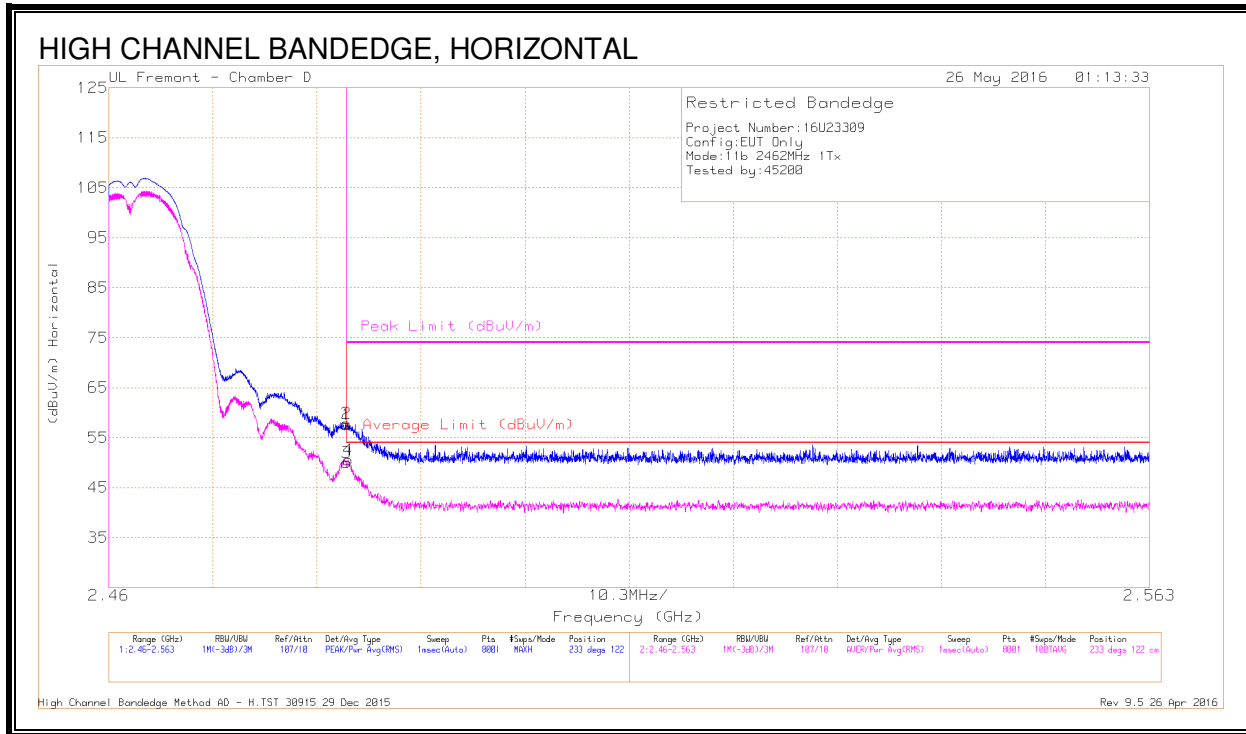
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT712 (dB/m)	Amp/Cb/Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.348	41.78	Pk	31.8	-20.7	52.88	-	-	74	-21.12	291	293	V
4	* 2.376	30.72	RMS	32	-20.6	42.12	54	-11.88	-	-	291	293	V
1	* 2.39	38.34	Pk	32.1	-20.6	49.84	-	-	74	-24.16	291	293	V
3	* 2.39	29.66	RMS	32.1	-20.6	41.16	54	-12.84	-	-	291	293	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEGE (HIGH CHANNEL, CH 11)



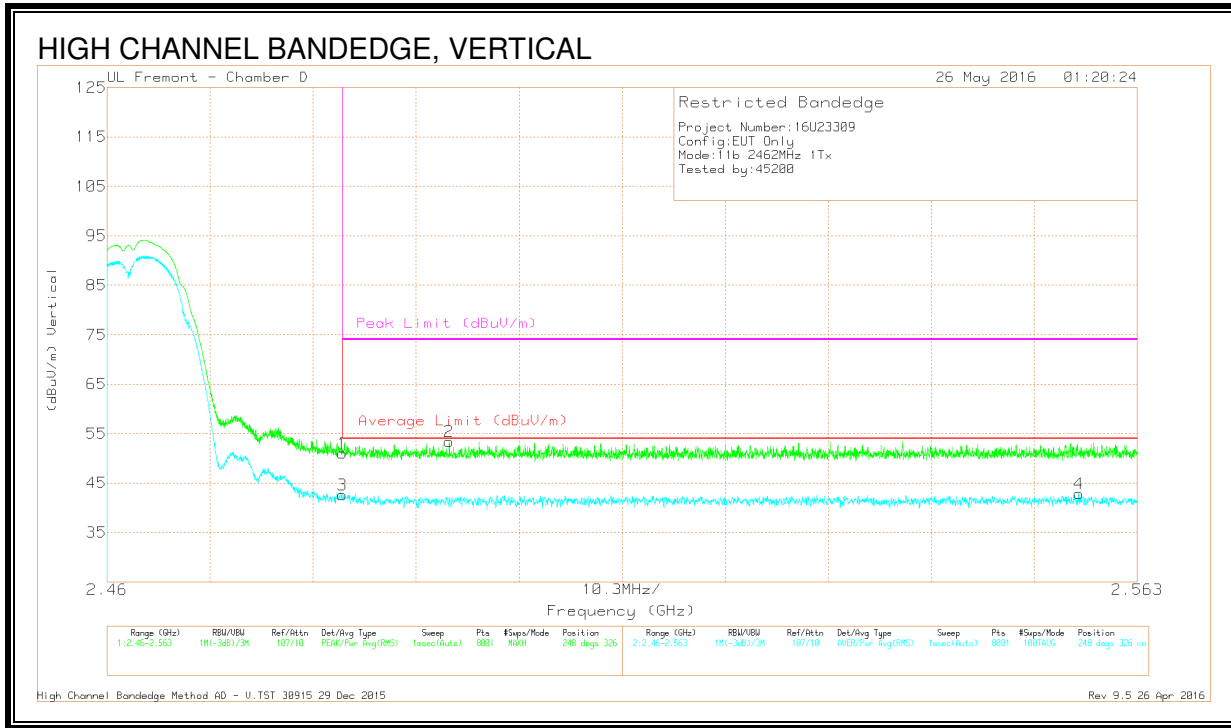
DATA

Marker	Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m) Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 2.484	38.27	RMS	32.3	-20.5	50.07	54	-3.93	-	-	233	122	H
1	* 2.484	38.69	RMS	32.3	-20.5	50.49	54	-3.51	-	-	233	122	H
2	* 2.484	45.79	Pk	32.3	-20.5	57.59	-	-	74	-16.41	233	122	H
3	* 2.484	46.09	Pk	32.3	-20.5	57.89	-	-	74	-16.11	233	122	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection



DATA

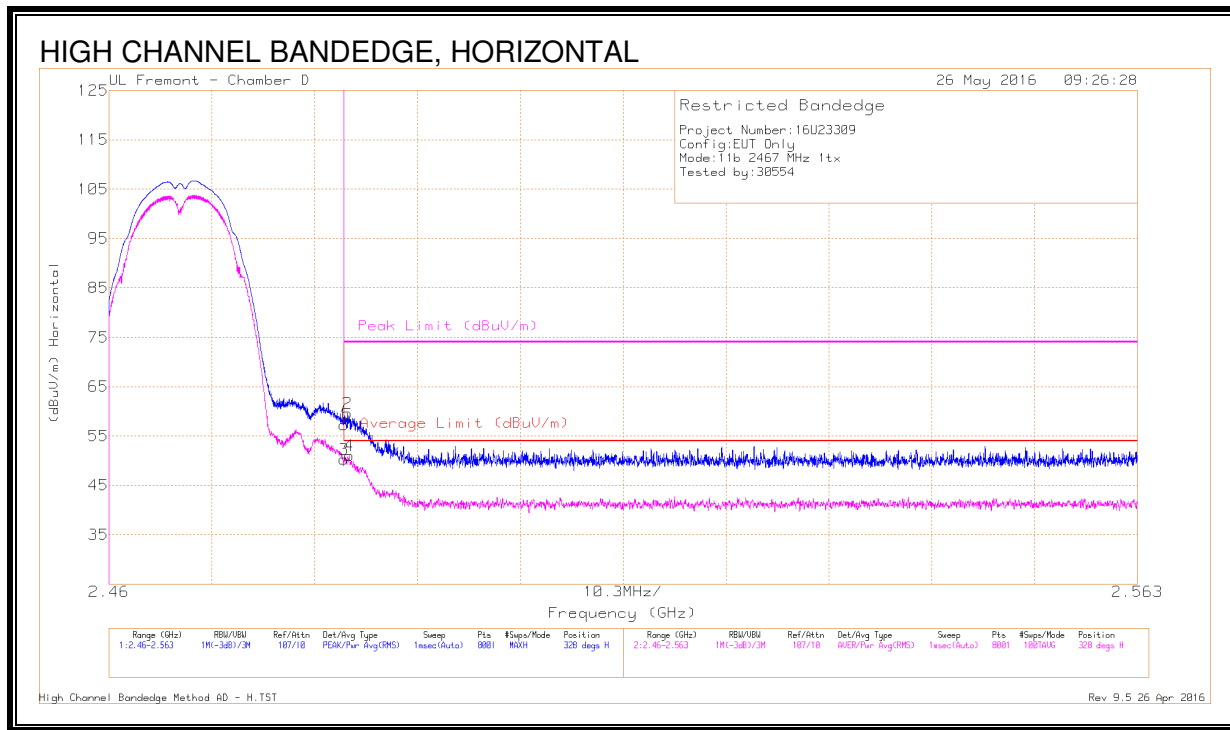
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT712 (dB/m)	Amp/Cb/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.28	Pk	32.3	-20.5	51.08	-	-	74	-22.92	248	326	V
3	* 2.484	30.74	RMS	32.3	-20.5	42.54	54	-11.46	-	-	248	326	V
2	* 2.494	41.62	Pk	32.3	-20.5	53.42	-	-	74	-20.58	248	326	V
4	2.557	31.06	RMS	32.2	-20.4	42.86	54	-11.14	-	-	248	326	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEGE (HIGH CHANNEL, CH 12)



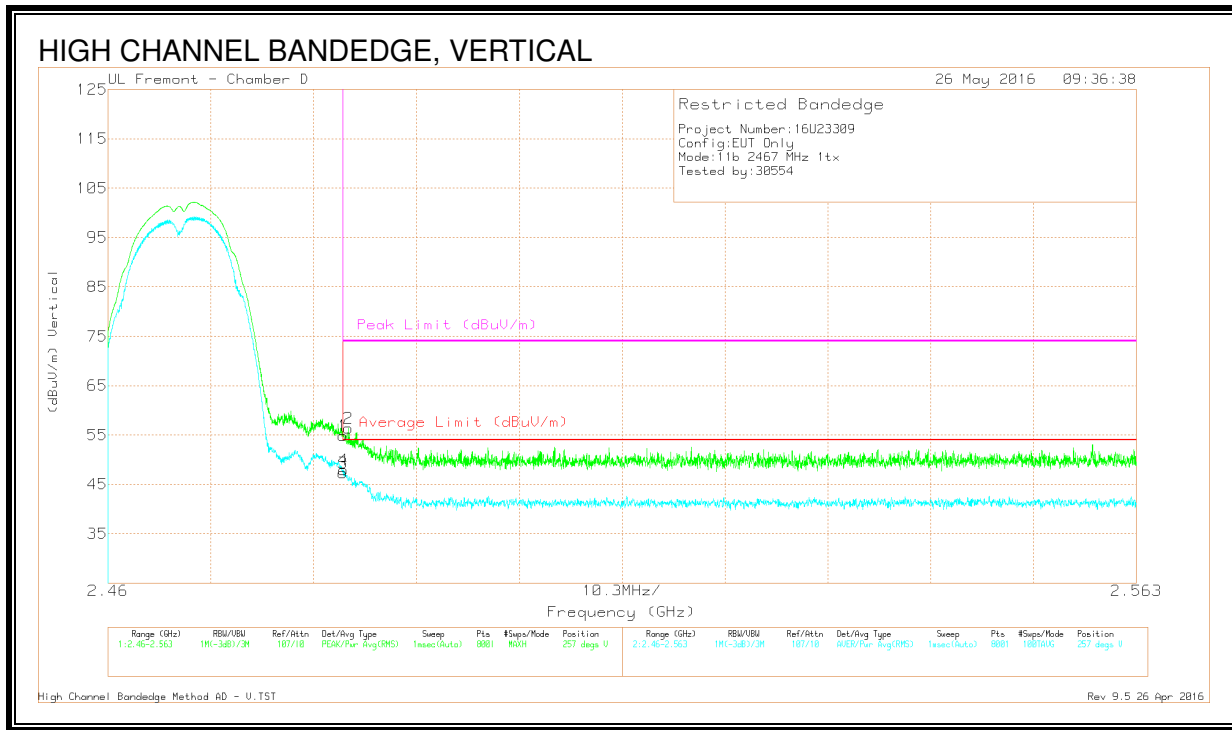
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	45.42	Pk	32.3	-20.5	57.22	-	-	74	-16.78	328	110	H
2	* 2.484	47.76	Pk	32.3	-20.5	59.56	-	-	74	-14.44	328	110	H
3	* 2.484	38.47	RMS	32.3	-20.5	50.27	54	-3.73	-	-	328	110	H
4	* 2.484	39.23	RMS	32.3	-20.5	51.03	54	-2.97	-	-	328	110	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection



DATA

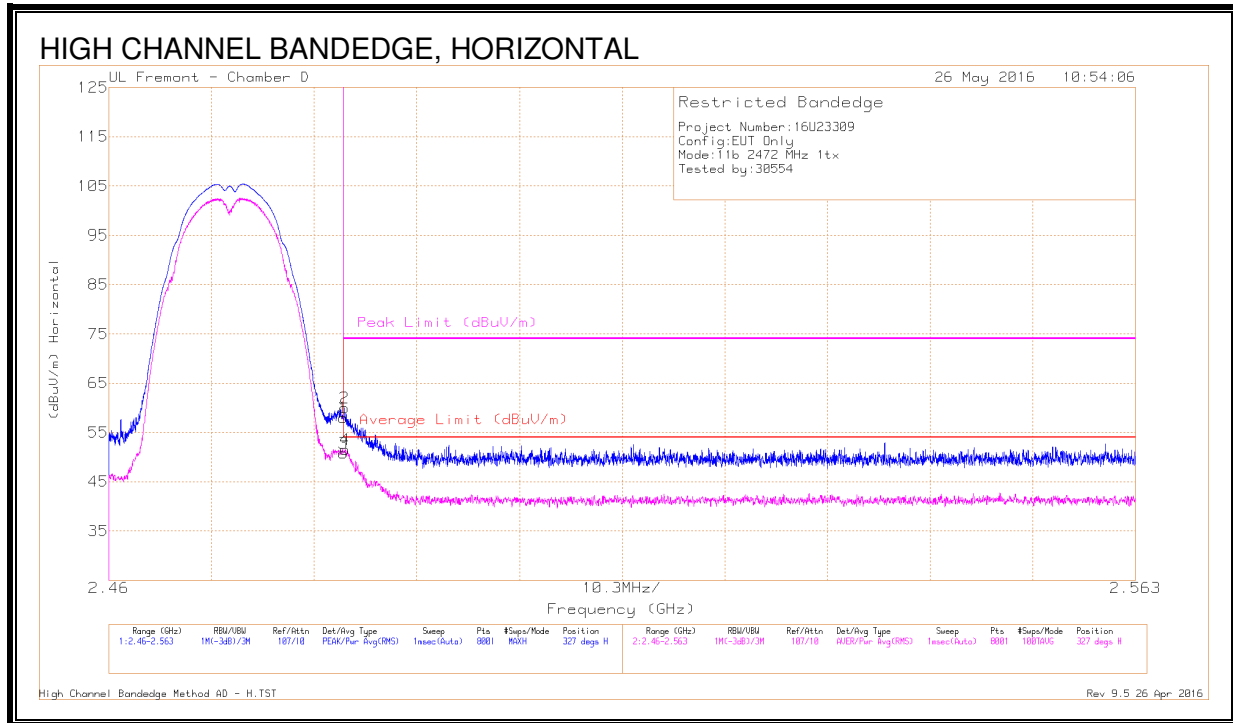
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	43.09	Pk	32.3	-20.5	54.89	-	-	74	-19.11	257	360	V
2	* 2.484	44.62	Pk	32.3	-20.5	56.42	-	-	74	-17.58	257	360	V
3	* 2.484	35.5	RMS	32.3	-20.5	47.3	54	-6.7	-	-	257	360	V
4	* 2.484	36.09	RMS	32.3	-20.5	47.89	54	-6.11	-	-	257	360	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEGE (HIGH CHANNEL, CH 13)



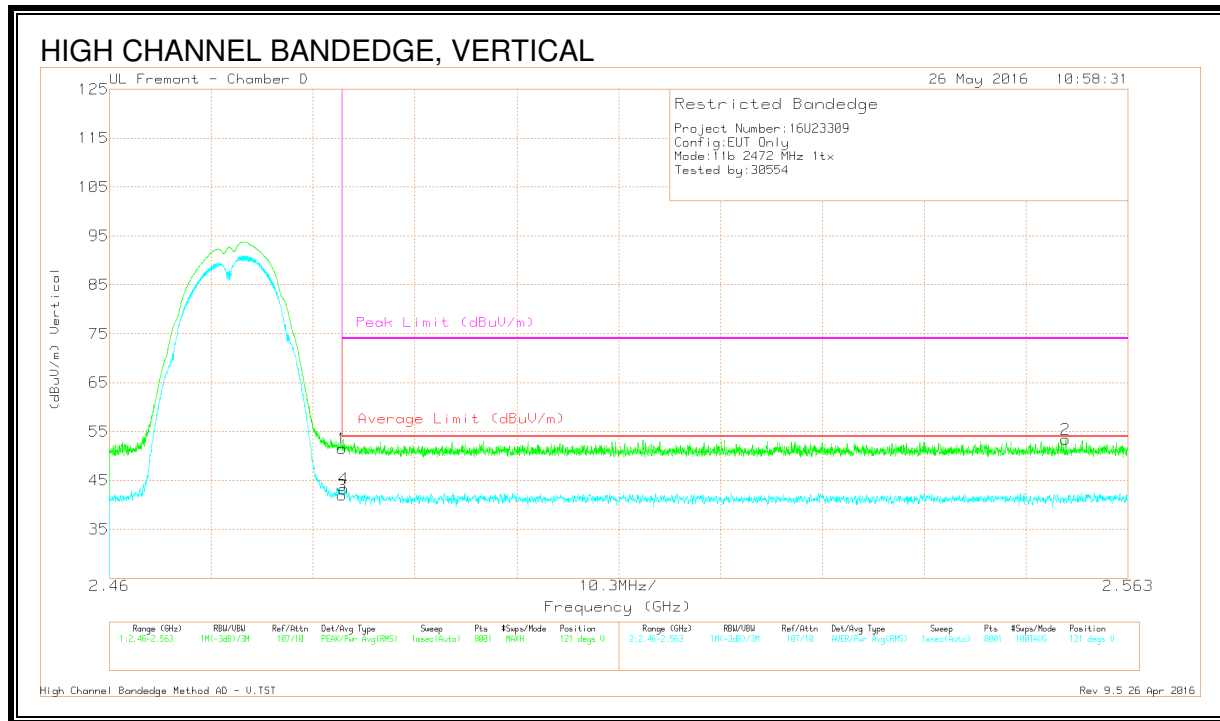
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cb/Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	46.19	Pk	32.3	-20.5	57.99	-	-	74	-16.01	327	106	H
2	* 2.484	48.17	Pk	32.3	-20.5	59.97	-	-	74	-14.03	327	106	H
3	* 2.484	38.96	RMS	32.3	-20.5	50.76	54	-3.24	-	-	327	106	H
4	* 2.484	39.68	RMS	32.3	-20.5	51.48	54	-2.52	-	-	327	106	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection



DATA

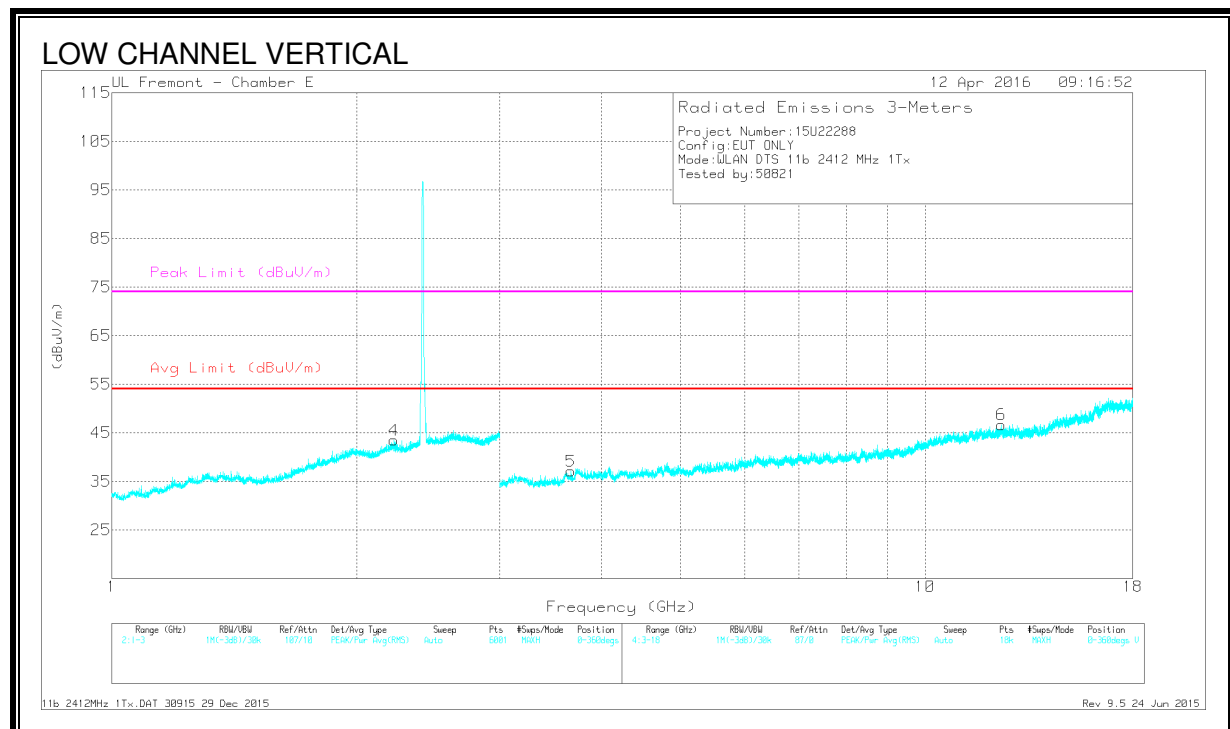
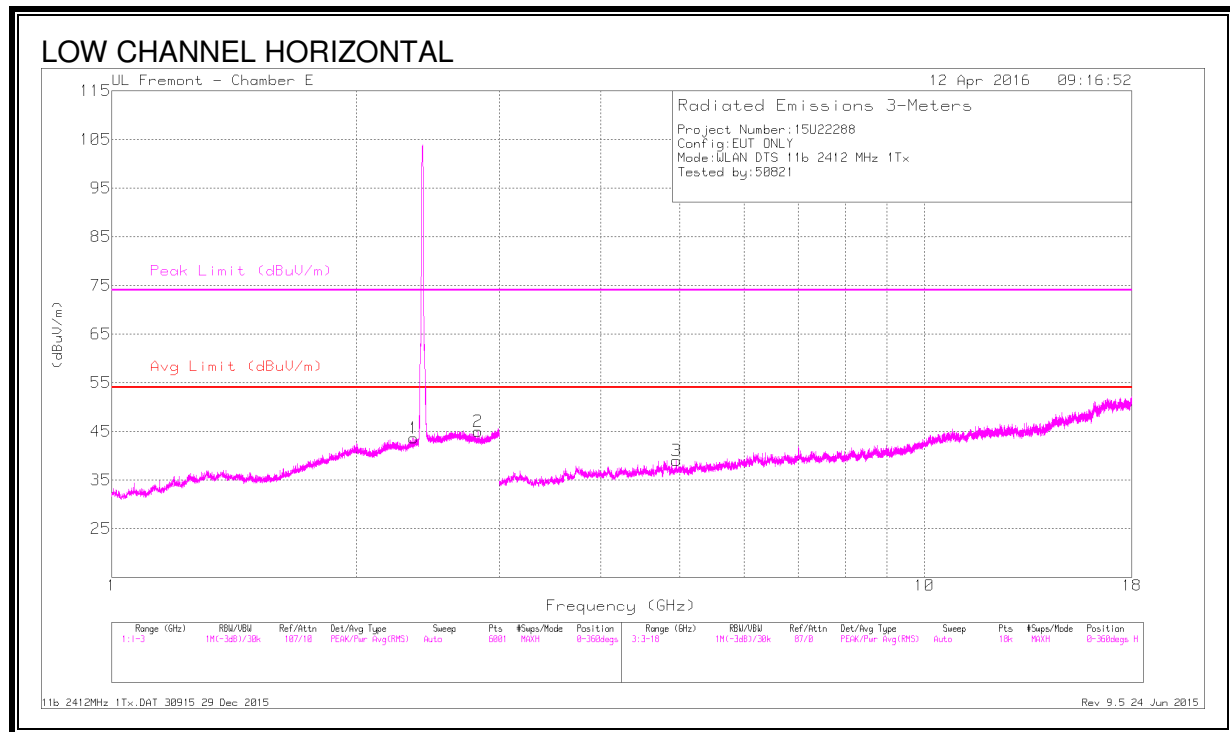
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cb/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.71	Pk	32.3	-20.5	51.51	-	-	74	-22.49	121	317	V
3	* 2.484	30.21	RMS	32.3	-20.5	42.01	54	-11.99	-	-	121	317	V
4	* 2.484	31.48	RMS	32.3	-20.5	43.28	54	-10.72	-	-	121	317	V
2	2.557	41.63	Pk	32.2	-20.4	53.43	-	-	74	-20.57	121	317	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL, CH 1



DATA

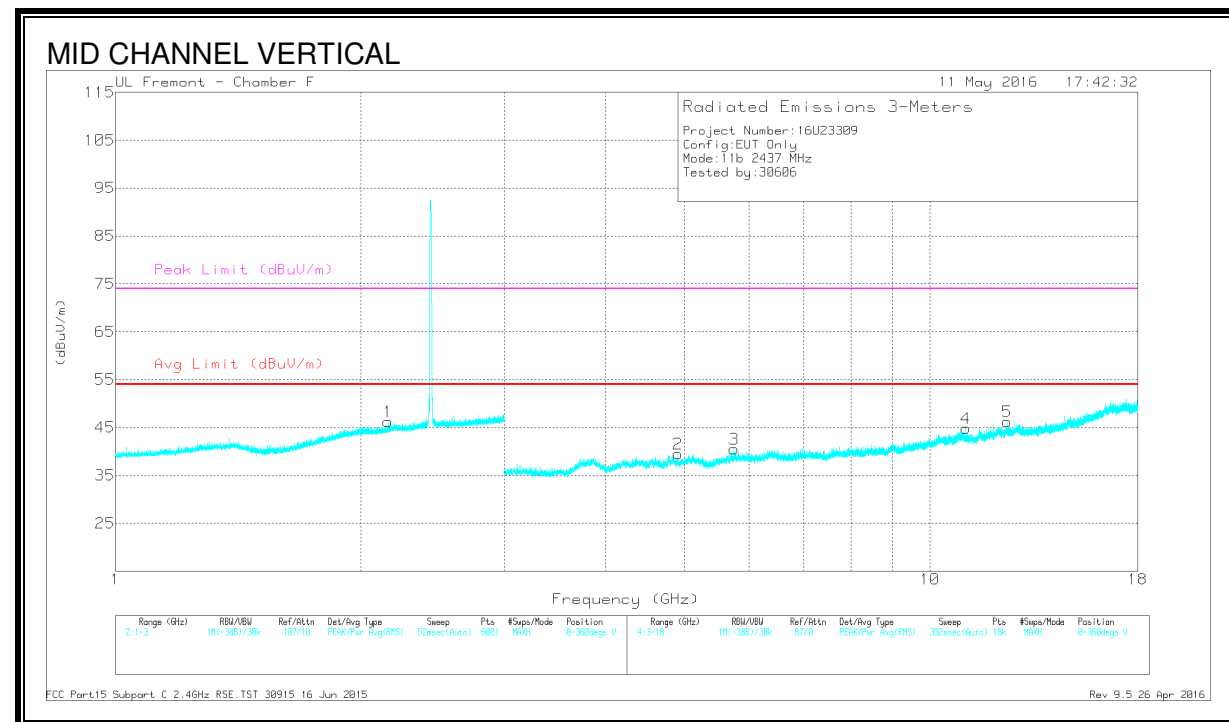
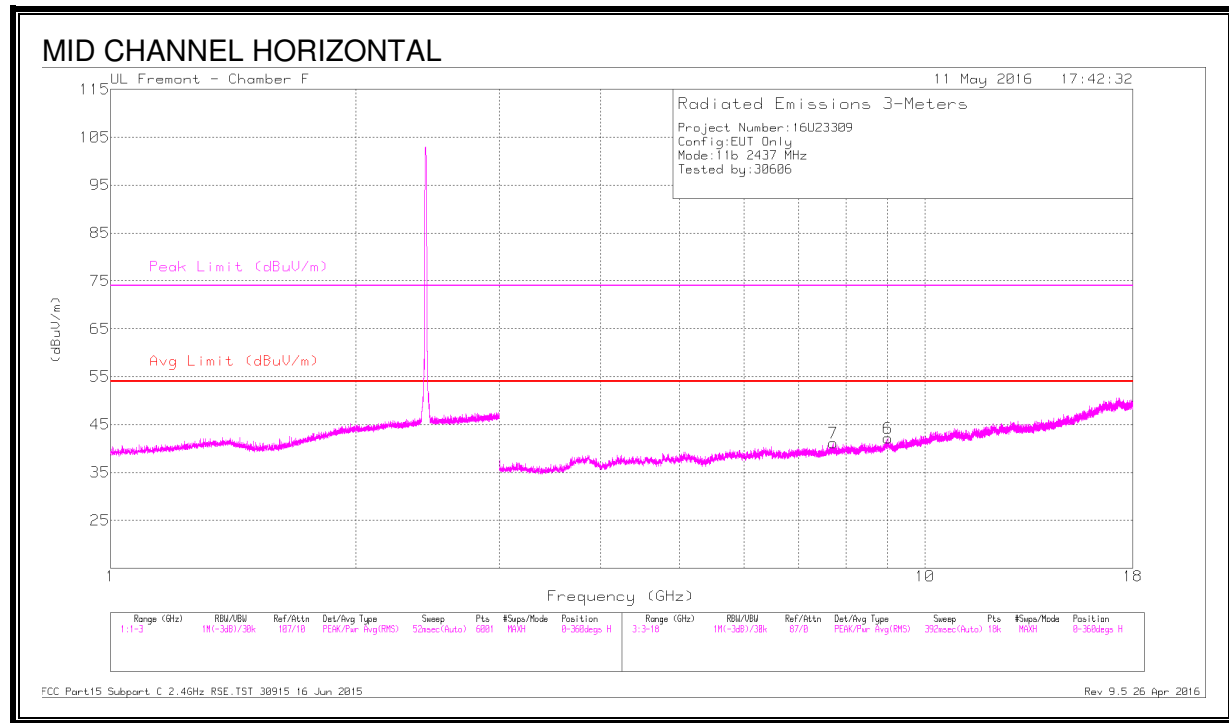
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.353	38.04	PK2	31.8	-20.1	49.74	-	-	74	-24.26	249	300	H
	* 2.356	25.97	MAv1	31.8	-20.1	37.67	54	-16.33	-	-	249	300	H
2	* 2.824	38.34	PK2	32.3	-19.9	50.74	-	-	74	-23.26	280	264	H
	* 2.824	26.02	MAv1	32.3	-19.9	38.42	54	-15.58	-	-	280	264	H
4	* 2.224	37.47	PK2	31.8	-20.1	49.17	-	-	74	-24.83	225	243	V
	* 2.223	25.57	MAv1	31.8	-20.1	37.27	54	-16.73	-	-	225	243	V
3	* 4.953	41.46	PK2	34	-30.5	44.96	-	-	74	-29.04	123	339	H
	* 4.952	29.78	MAv1	34	-30.5	33.28	54	-20.72	-	-	123	339	H
5	* 3.671	41.78	PK2	33.1	-30.5	44.38	-	-	74	-29.62	327	304	V
	* 3.67	29.65	MAv1	33.1	-30.5	32.25	54	-21.75	-	-	327	304	V
6	* 12.406	37.21	PK2	39	-23.5	52.71	-	-	74	-21.29	24	135	V
	* 12.406	25.49	MAv1	39	-23.5	40.99	54	-13.01	-	-	24	135	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL, CH 6



DATA

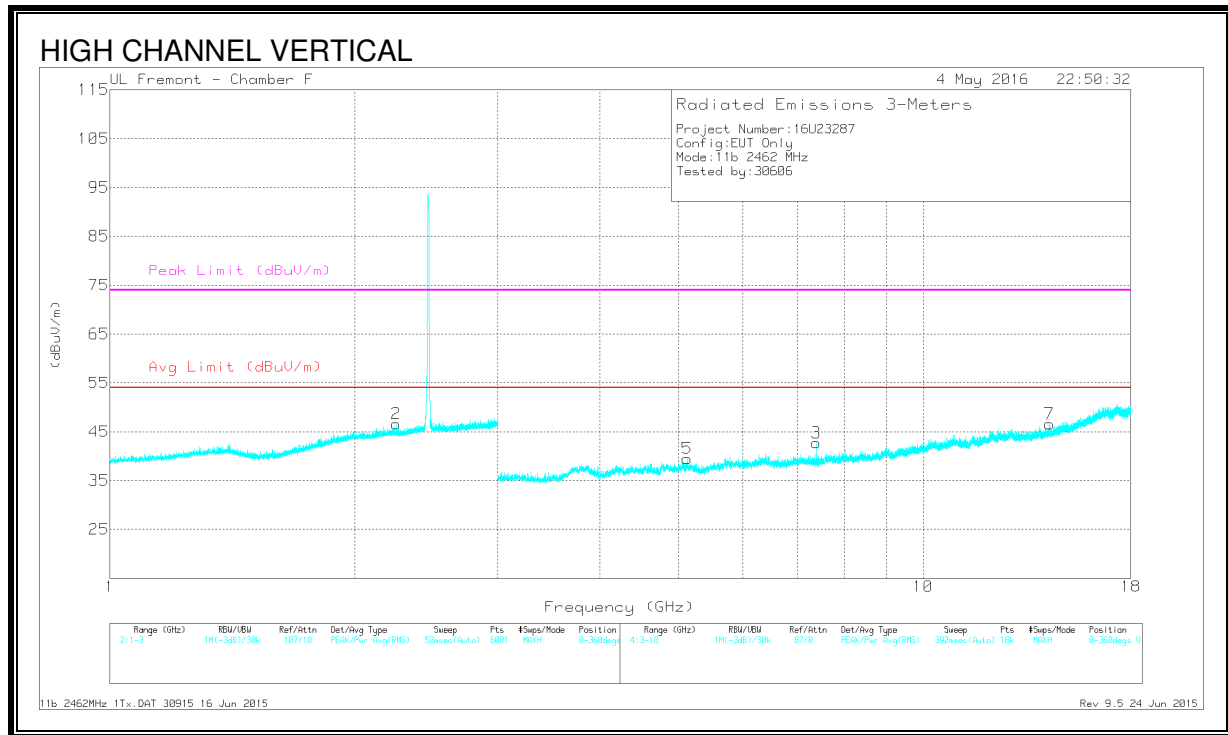
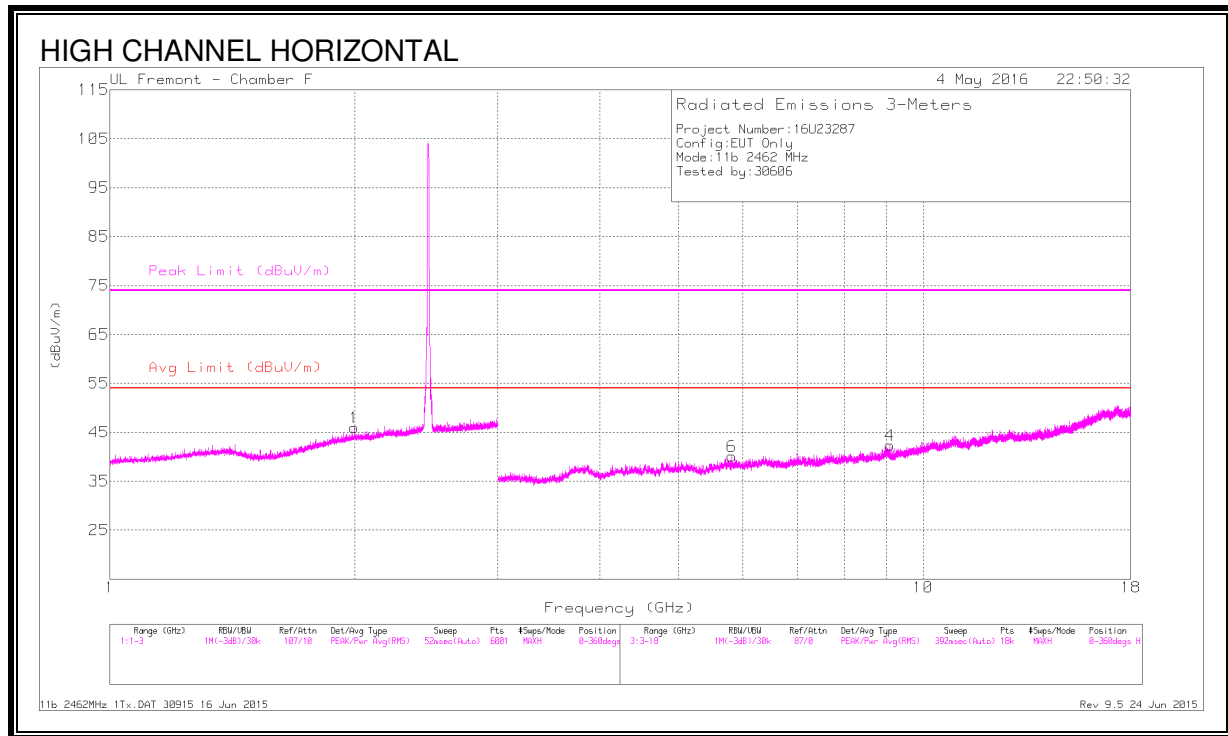
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.162	41.84	PK2	31.7	-21.2	52.34	-	-	-	-	268	374	V
6	* 9.009	34.52	PK2	36	-22.6	47.92	-	-	74	-26.08	15	314	H
	* 9.011	23.71	MAv1	36	-22.6	37.11	54	-16.89	-	-	15	314	H
7	* 7.712	35.81	PK2	35.7	-25.3	46.21	-	-	74	-27.79	185	329	H
	* 7.714	25.46	MAv1	35.7	-25.3	35.86	54	-18.14	-	-	185	329	H
2	* 4.899	38.59	PK2	34.1	-28	44.69	-	-	74	-29.31	121	330	V
	* 4.9	27.34	MAv1	34.1	-28	33.44	54	-20.56	-	-	121	330	V
3	5.75	37.97	PK2	34.9	-26.7	46.17	-	-	-	-	82	102	V
4	* 11.064	34.16	PK2	37.9	-22.1	49.96	-	-	74	-24.04	56	400	V
	* 11.065	23.31	MAv1	37.9	-22.1	39.11	54	-14.89	-	-	56	400	V
5	* 12.444	34.55	PK2	39	-22.2	51.35	-	-	74	-22.65	260	279	V
	* 12.445	23.79	MAv1	39	-22.2	40.59	54	-13.41	-	-	260	279	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL, CH 11



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.997	41.75	PK2	31.5	-21.4	51.85	-	-	-	-	334	321	H
2	* 2.25	41.86	PK2	31.8	-21	52.66	-	-	74	-21.34	100	261	V
	* 2.25	29.81	MAv1	31.8	-21	40.61	54	-13.39	-	-	100	261	V
4	* 9.103	35.17	PK2	36.1	-23.1	48.17	-	-	74	-25.83	95	152	H
	* 9.106	23.15	MAv1	36.1	-23.2	36.05	54	-17.95	-	-	95	152	H
6	5.817	38.19	PK2	35	-27.3	45.89	-	-	-	-	265	308	H
3	* 7.386	40.77	PK2	35.6	-25.8	50.57	-	-	74	-23.43	318	232	V
	* 7.387	31.06	MAv1	35.6	-25.8	40.86	54	-13.14	-	-	318	232	V
5	* 5.126	37.55	PK2	34.2	-27	44.75	-	-	74	-29.25	111	368	V
	* 5.126	26.07	MAv1	34.2	-27	33.27	54	-20.73	-	-	111	368	V
7	14.302	35.78	PK2	39.3	-23.2	51.88	-	-	-	-	163	212	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

DATA

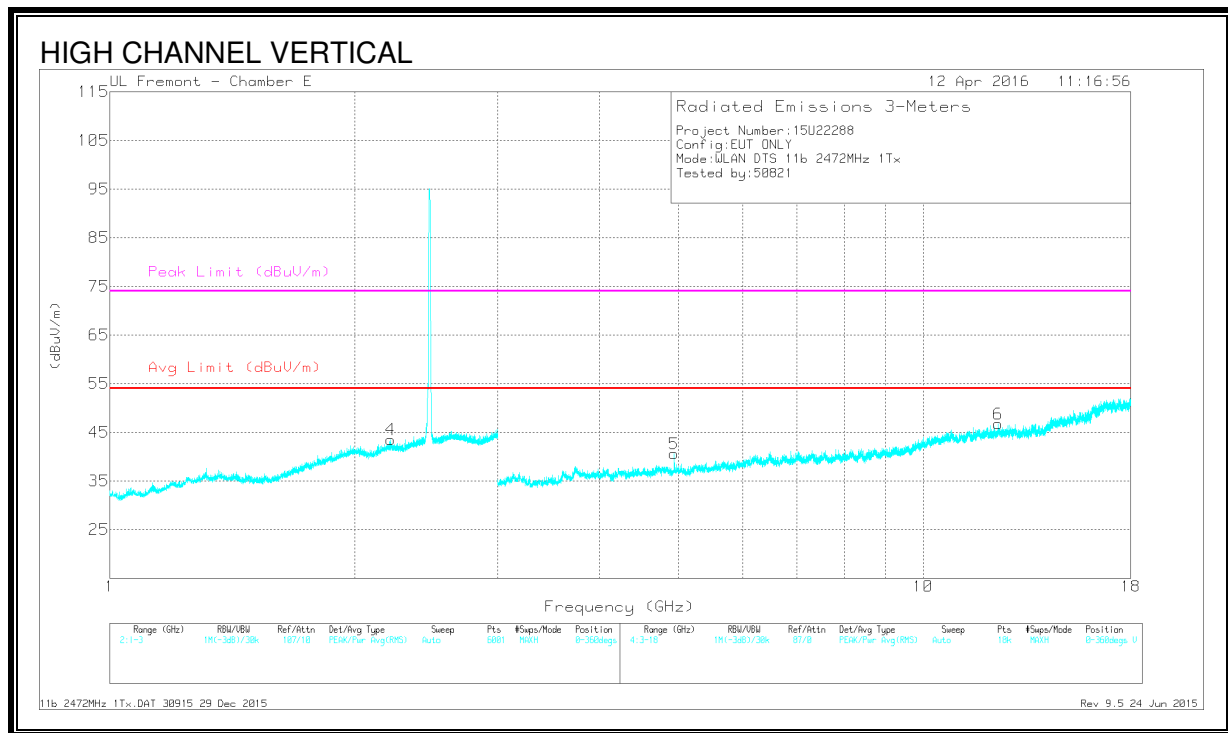
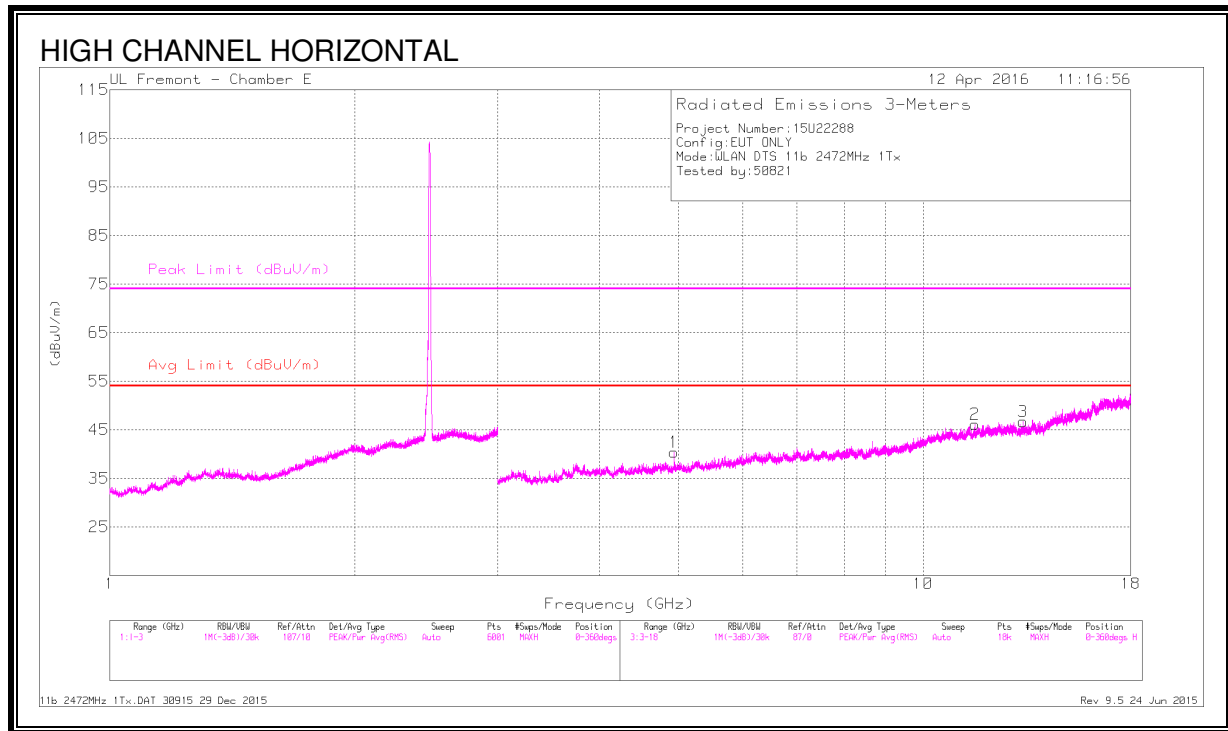
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 4.934	42.83	PK2	34	-30.6	46.23	-	-	74	-27.77	111	150	H
	* 4.934	33.21	MAv1	34	-30.6	36.61	54	-17.39	-	-	111	150	H
5	* 4.934	42.65	PK2	34	-30.6	46.05	-	-	74	-27.95	160	357	V
	* 4.934	33.85	MAv1	34	-30.6	37.25	54	-16.75	-	-	160	357	V
6	* 7.4	41.7	PK2	35.6	-27.8	49.5	-	-	74	-24.5	341	255	V
	* 7.4	31.81	MAv1	35.6	-27.8	39.61	54	-14.39	-	-	341	255	V
1	2.923	38.37	PK2	32	-19.4	50.97	-	-	-	-	201	184	H
4	2.997	38.61	PK2	32.5	-19.4	51.71	-	-	-	-	154	212	V
3	7.827	37.99	PK2	35.7	-25.9	47.79	-	-	-	-	201	359	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL, CH 13



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cb/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 2.217	38.15	PK2	31.8	-20	49.95	-	-	74	-24.05	268	255	V
	* 2.216	25.5	MAv1	31.8	-20	37.3	54	-16.7	-	-	268	255	V
1	* 4.944	43.35	PK2	34	-30.5	46.85	-	-	74	-27.15	79	155	H
	* 4.944	34.89	MAv1	34	-30.5	38.39	54	-15.61	-	-	79	155	H
2	* 11.582	37.02	PK2	38.4	-23.6	51.82	-	-	74	-22.18	347	280	H
	* 11.582	25.47	MAv1	38.4	-23.5	40.37	54	-13.63	-	-	347	280	H
3	* 13.272	39.11	PK2	39	-24.5	53.61	-	-	74	-20.39	168	359	H
	* 13.271	26.81	MAv1	39	-24.5	41.31	54	-12.69	-	-	168	359	H
5	* 4.944	44.47	PK2	34	-30.5	47.97	-	-	74	-26.03	86	376	V
	* 4.944	36.94	MAv1	34	-30.5	40.44	54	-13.56	-	-	86	376	V
6	* 12.369	36.95	PK2	39	-23.5	52.45	-	-	74	-21.55	191	316	V
	* 12.37	25.69	MAv1	39	-23.5	41.19	54	-12.81	-	-	191	316	V

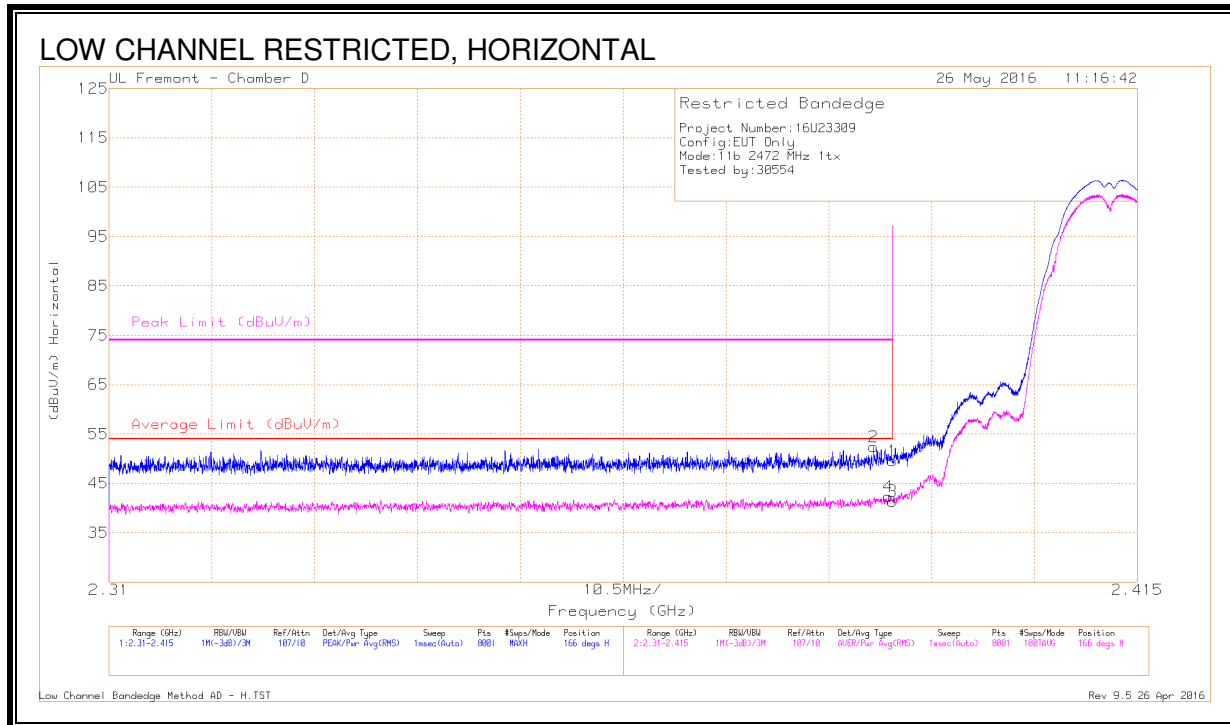
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

9.2.2. 802.11b 1Tx MODE IN THE 2.4 GHz BAND CHAIN 1

RESTRICTED BANDEDGE (LOW CHANNEL, CH 1)



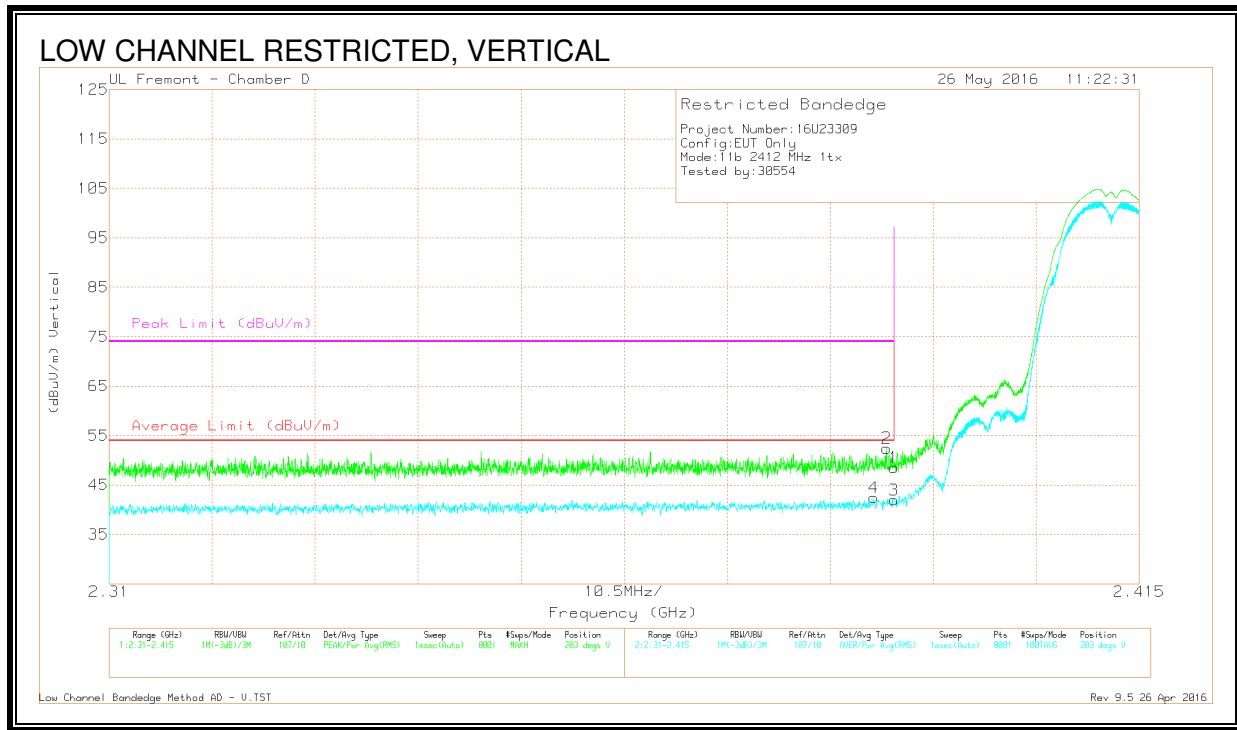
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cb/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.388	40.94	Pk	32.1	-20.6	52.44	-	-	74	-21.56	166	158	H
1	* 2.39	38.08	Pk	32.1	-20.6	49.58	-	-	74	-24.42	166	158	H
3	* 2.39	29.91	RMS	32.1	-20.6	41.41	54	-12.59	-	-	166	158	H
4	* 2.39	30.86	RMS	32.1	-20.6	42.36	54	-11.64	-	-	166	158	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection



DATA

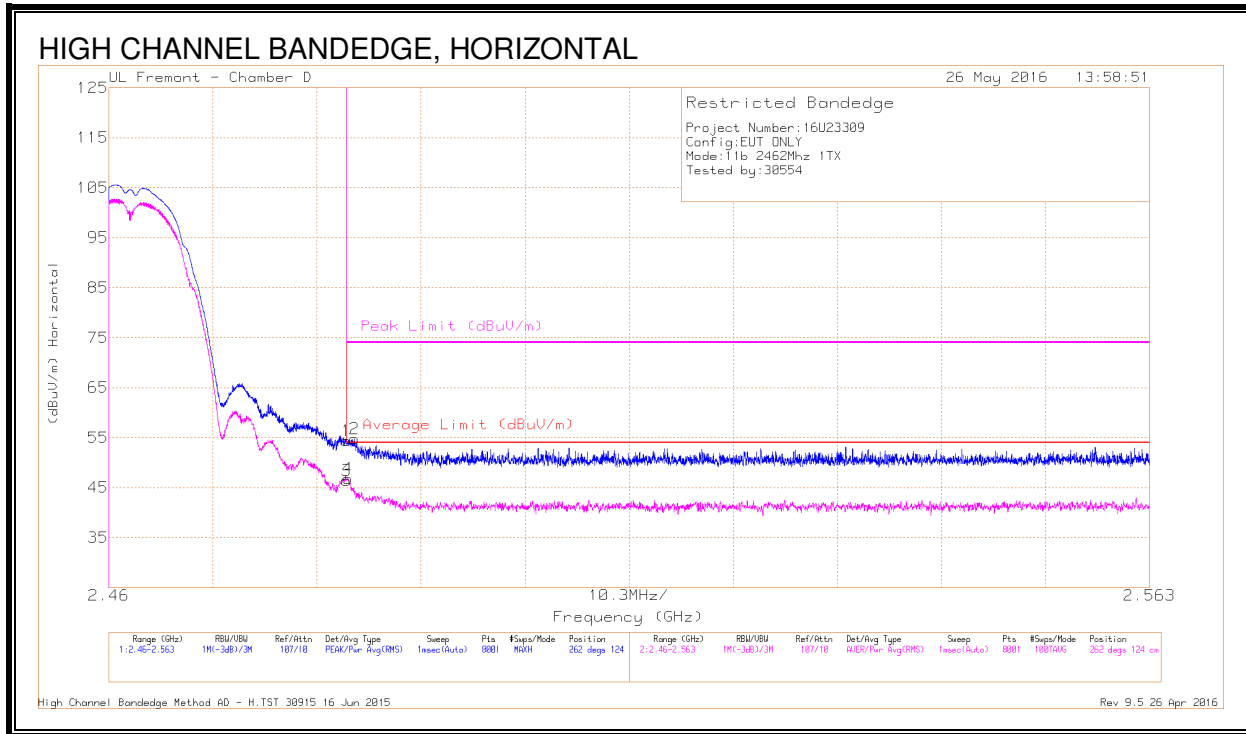
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT712 (dB/m)	Amp/Cb/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 2.388	30.99	RMS	32.1	-20.6	42.49	54	-11.51	-	-	203	391	V
2	* 2.389	40.96	Pk	32.1	-20.6	52.46	-	-	74	-21.54	203	391	V
1	* 2.39	37	Pk	32.1	-20.6	48.5	-	-	74	-25.5	203	391	V
3	* 2.39	30.47	RMS	32.1	-20.6	41.97	54	-12.03	-	-	203	391	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEGE (HIGH CHANNEL, CH 11)



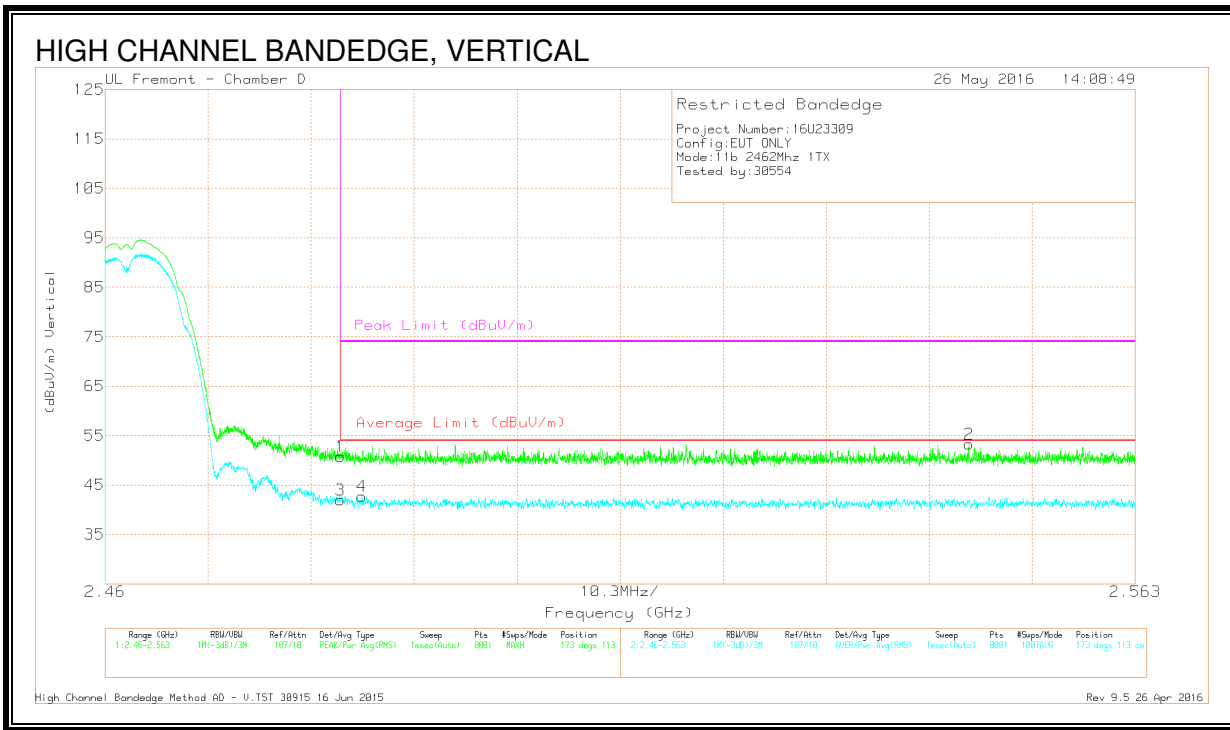
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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.62	Pk	32.3	-20.5	54.42	-	-	74	-19.58	262	124	H
2	* 2.484	42.97	Pk	32.3	-20.5	54.77	-	-	74	-19.23	262	124	H
3	* 2.484	34.65	RMS	32.3	-20.5	46.45	54	-7.55	-	-	262	124	H
4	* 2.484	35.01	RMS	32.3	-20.5	46.81	54	-7.19	-	-	262	124	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection



DATA

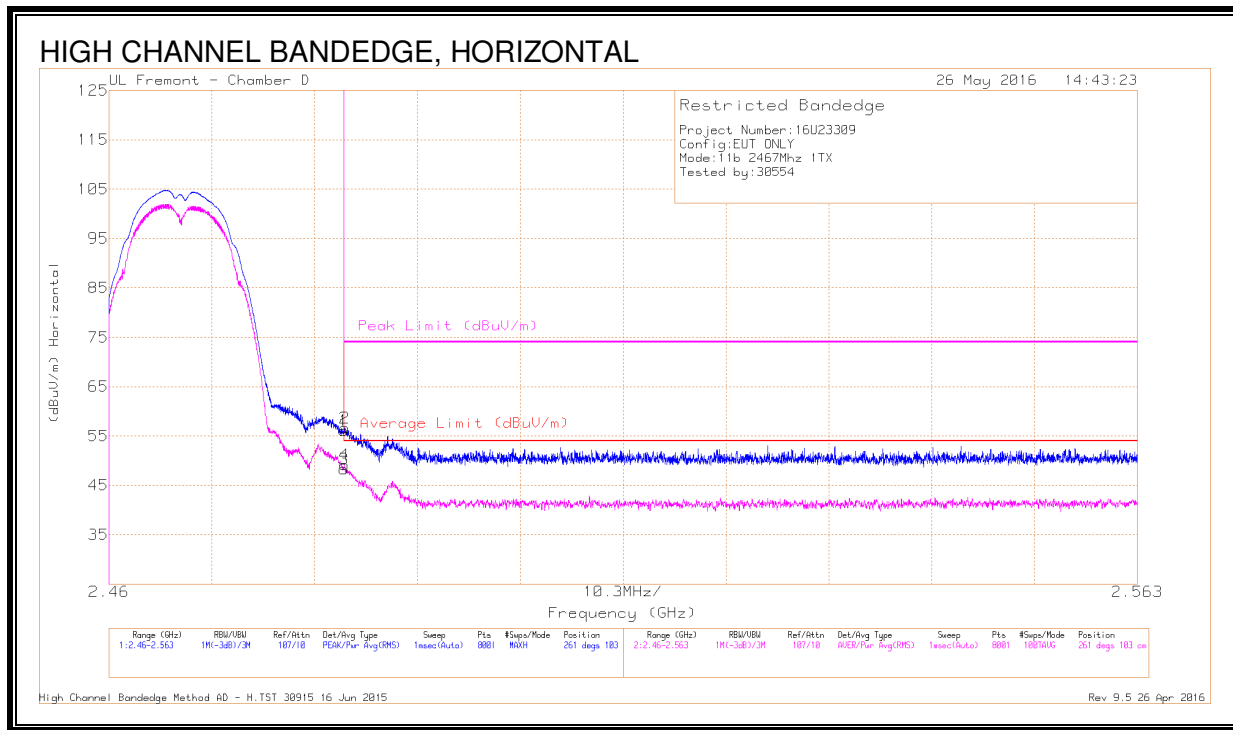
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cb/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.04	Pk	32.3	-20.5	50.84	-	-	74	-23.16	173	113	V
3	* 2.484	30.15	RMS	32.3	-20.5	41.95	54	-12.05	-	-	173	113	V
4	* 2.486	31.07	RMS	32.3	-20.6	42.77	54	-11.23	-	-	173	113	V
2	2.546	41.51	Pk	32.2	-20.4	53.31	-	-	74	-20.69	173	113	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEGE (HIGH CHANNEL, CH 12)



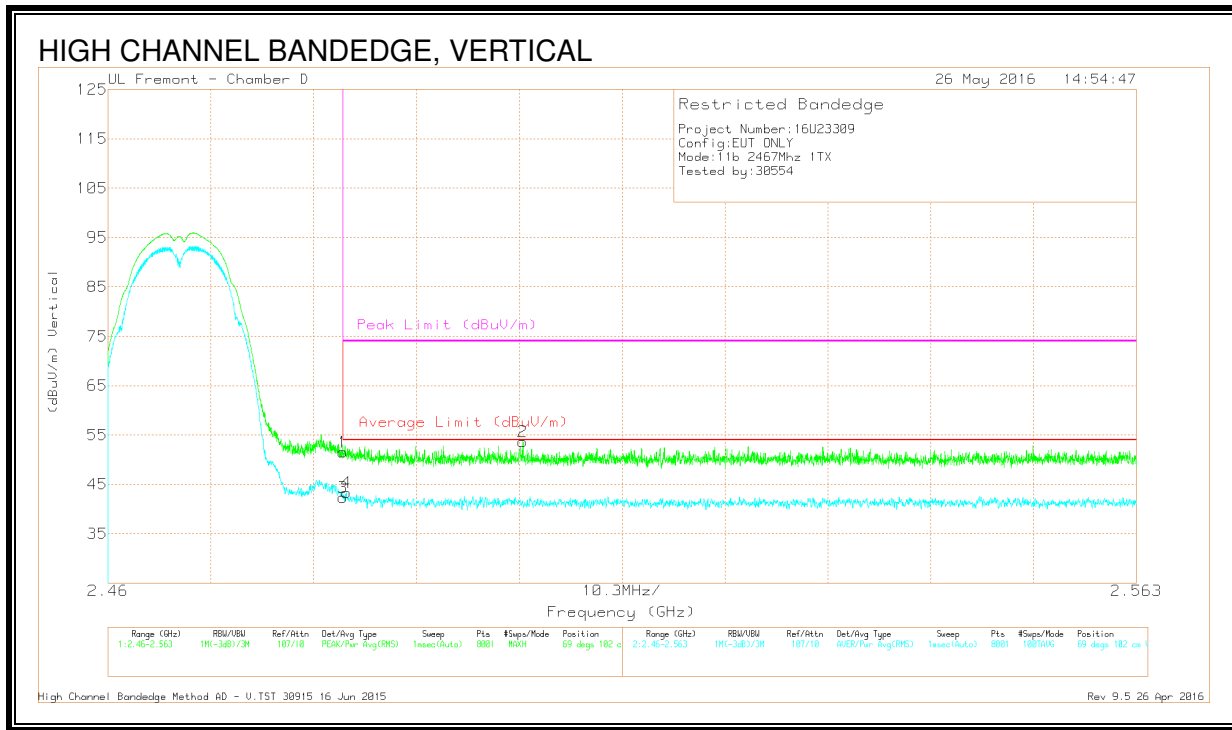
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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	44.35	Pk	32.3	-20.5	56.15	-	-	74	-17.85	261	103	H
2	* 2.484	44.83	Pk	32.3	-20.5	56.63	-	-	74	-17.37	261	103	H
3	* 2.484	36.53	RMS	32.3	-20.5	48.33	54	-5.67	-	-	261	103	H
4	* 2.484	37.35	RMS	32.3	-20.5	49.15	54	-4.85	-	-	261	103	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection



DATA

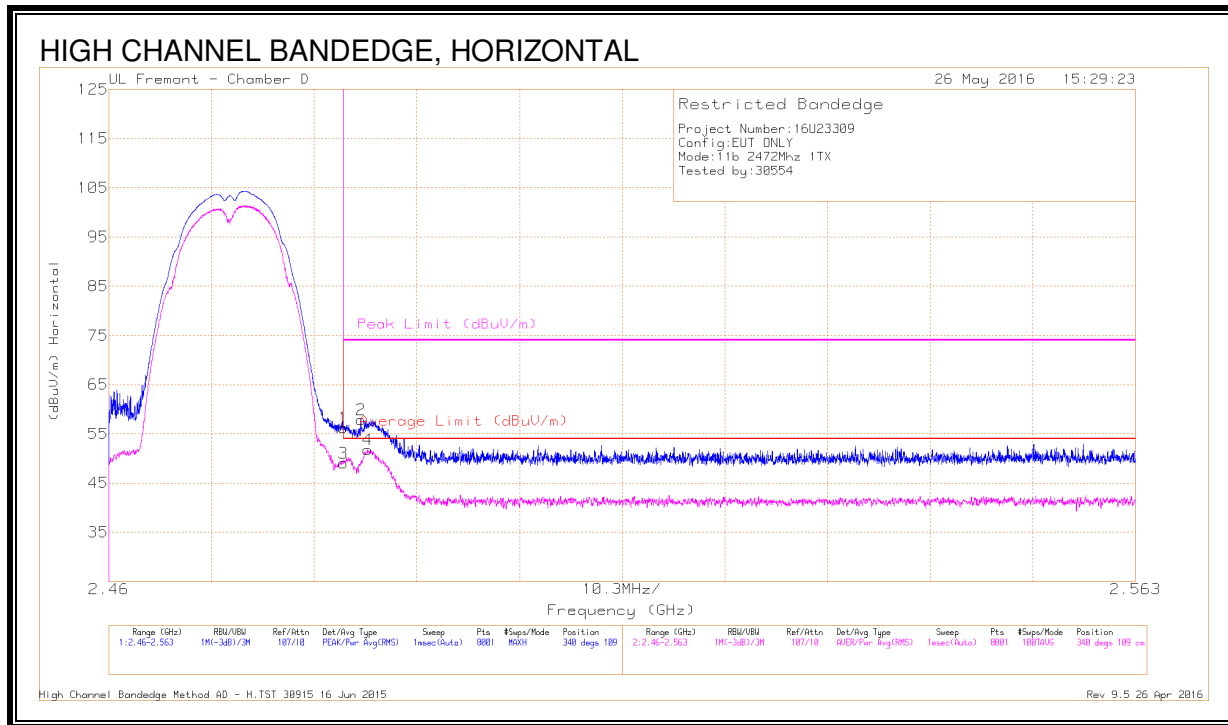
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT712 (dB/m)	Amp/Cb/Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.68	Pk	32.3	-20.5	51.48	-	-	74	-22.52	69	102	V
3	* 2.484	30.54	RMS	32.3	-20.5	42.34	54	-11.66	-	-	69	102	V
4	* 2.484	31.59	RMS	32.3	-20.5	43.39	54	-10.61	-	-	69	102	V
2	2.502	41.88	Pk	32.3	-20.5	53.68	-	-	74	-20.32	69	102	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEGE (HIGH CHANNEL, CH 13)



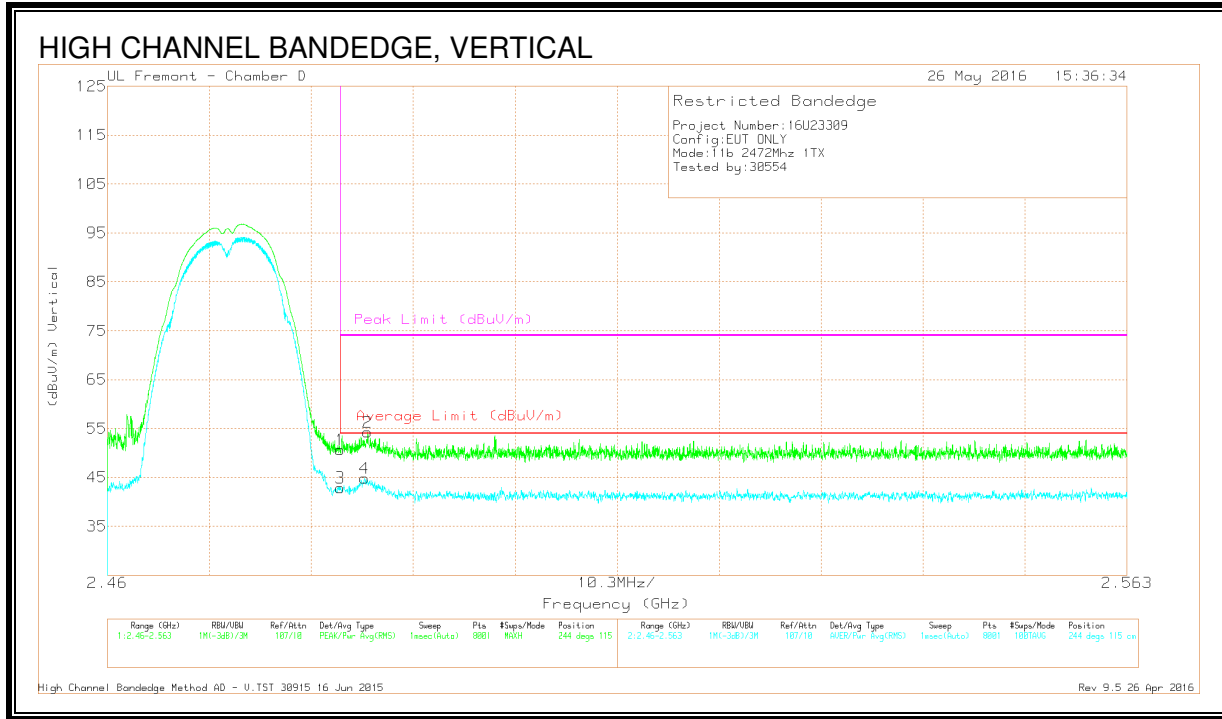
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cb/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	44.49	Pk	32.3	-20.5	56.29	-	-	74	-17.71	340	109	H
3	* 2.484	37.29	RMS	32.3	-20.5	49.09	54	-4.91	-	-	340	109	H
2	* 2.485	46.16	Pk	32.3	-20.6	57.86	-	-	74	-16.14	340	109	H
4	* 2.486	40.05	RMS	32.3	-20.6	51.75	54	-2.25	-	-	340	109	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.84	Pk	32.3	-20.5	50.64	-	-	74	-23.36	244	115	V
3	* 2.484	31.1	RMS	32.3	-20.5	42.9	54	-11.1	-	-	244	115	V
2	* 2.486	42.55	Pk	32.3	-20.6	54.25	-	-	74	-19.75	244	115	V
4	* 2.486	33.17	RMS	32.3	-20.6	44.87	54	-9.13	-	-	244	115	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection