

8.6. 802.11n HT20 2TX CDD MODE IN THE 2.4 GHZ BAND

8.6.1. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

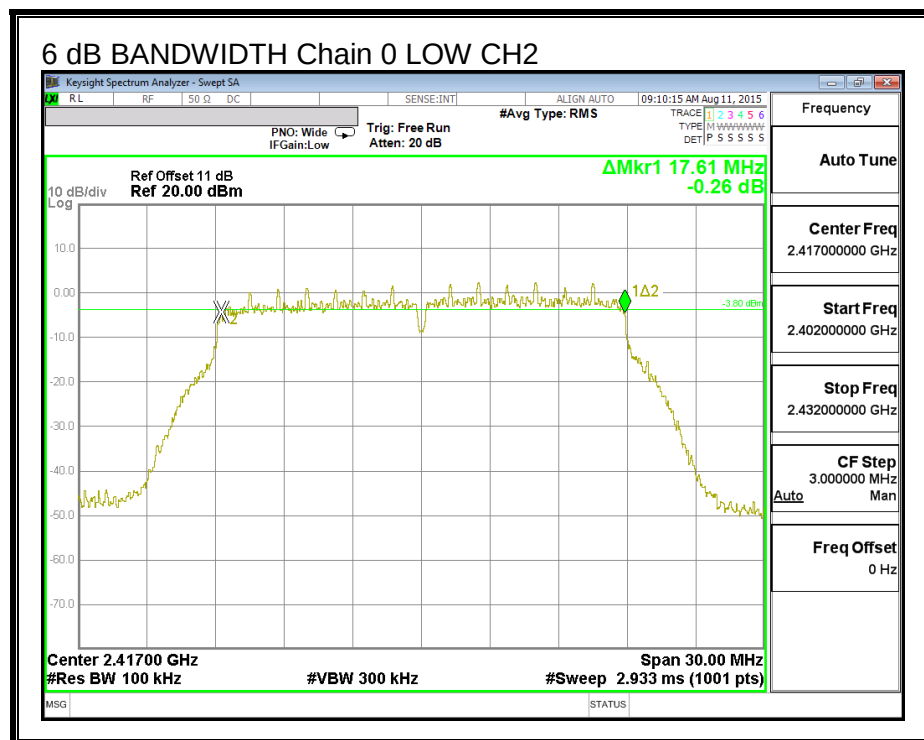
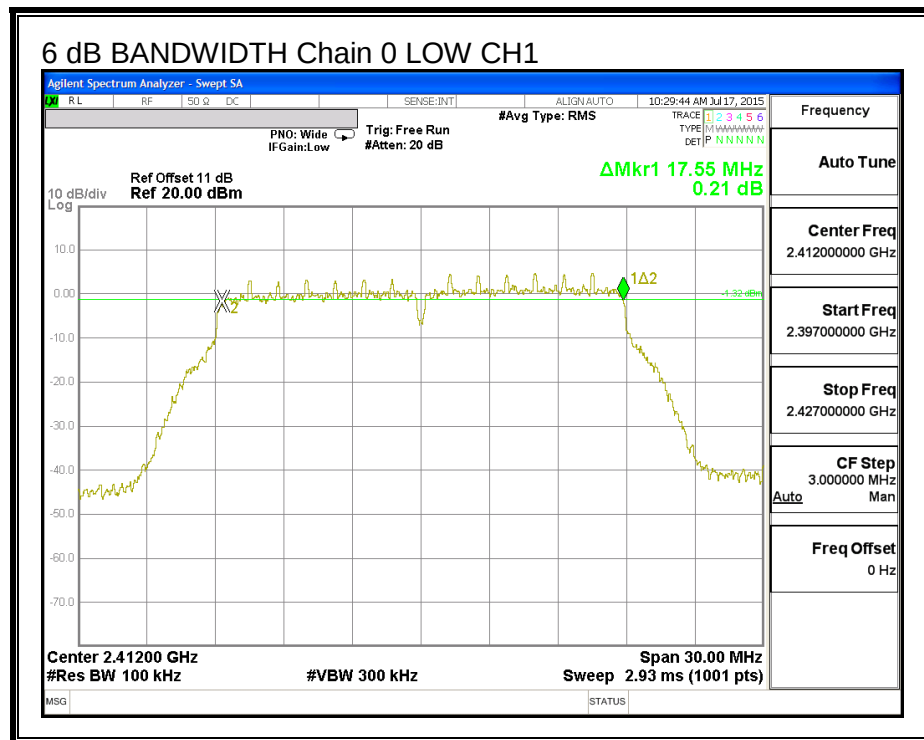
IC RSS-247 (5.2) (1)

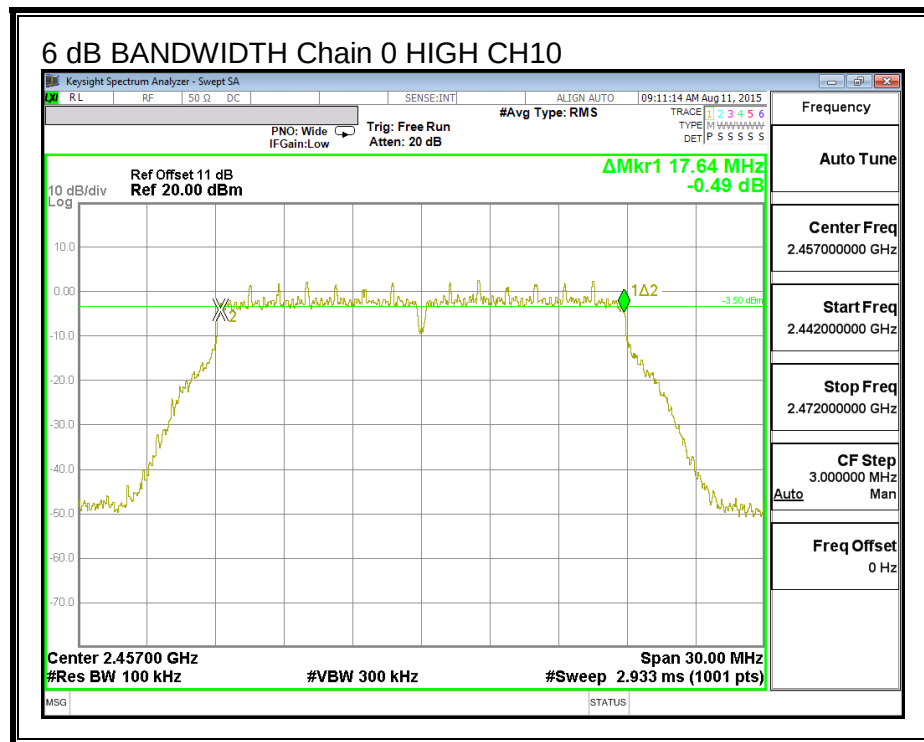
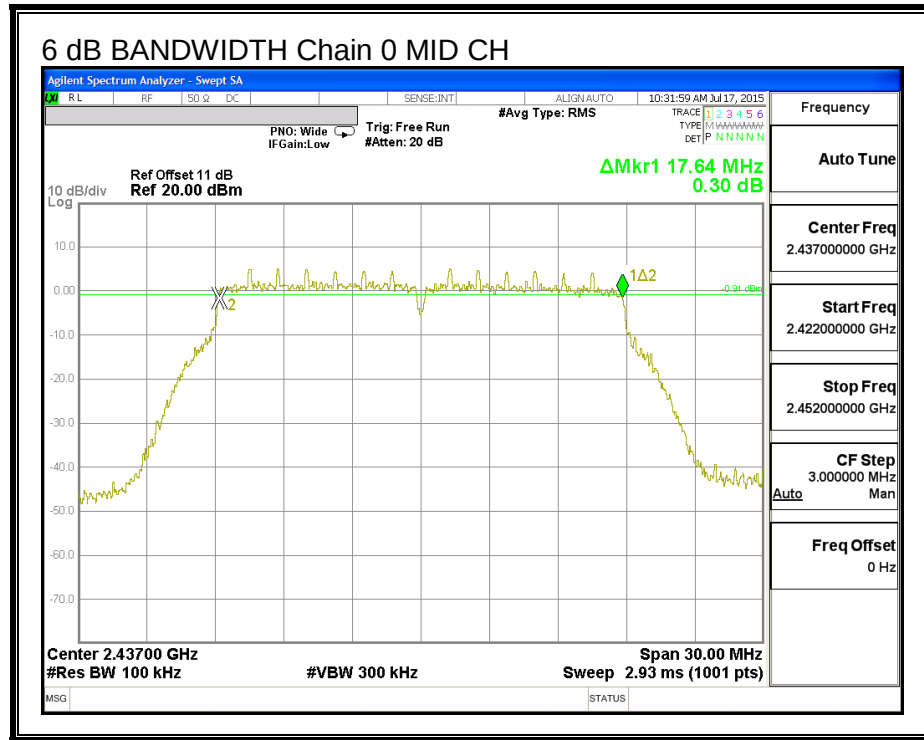
The minimum 6 dB bandwidth shall be at least 500 kHz.

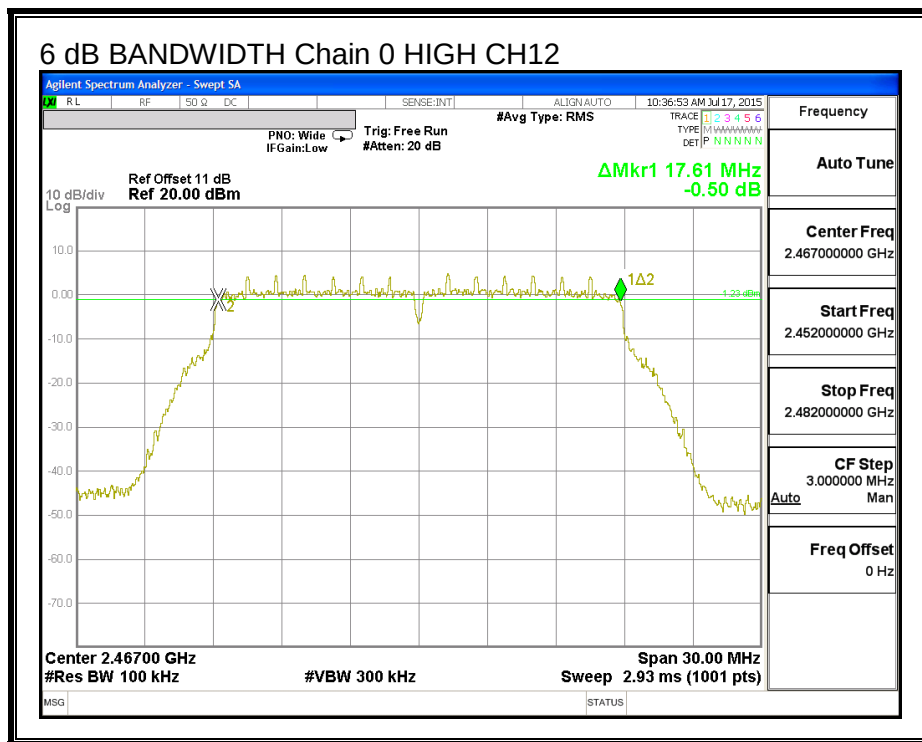
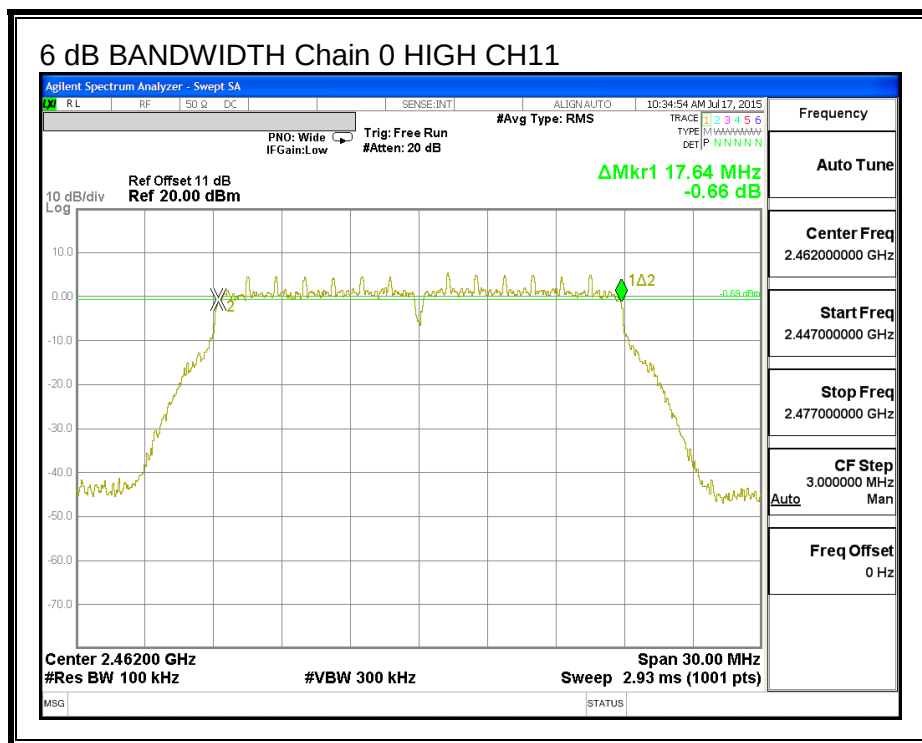
RESULTS

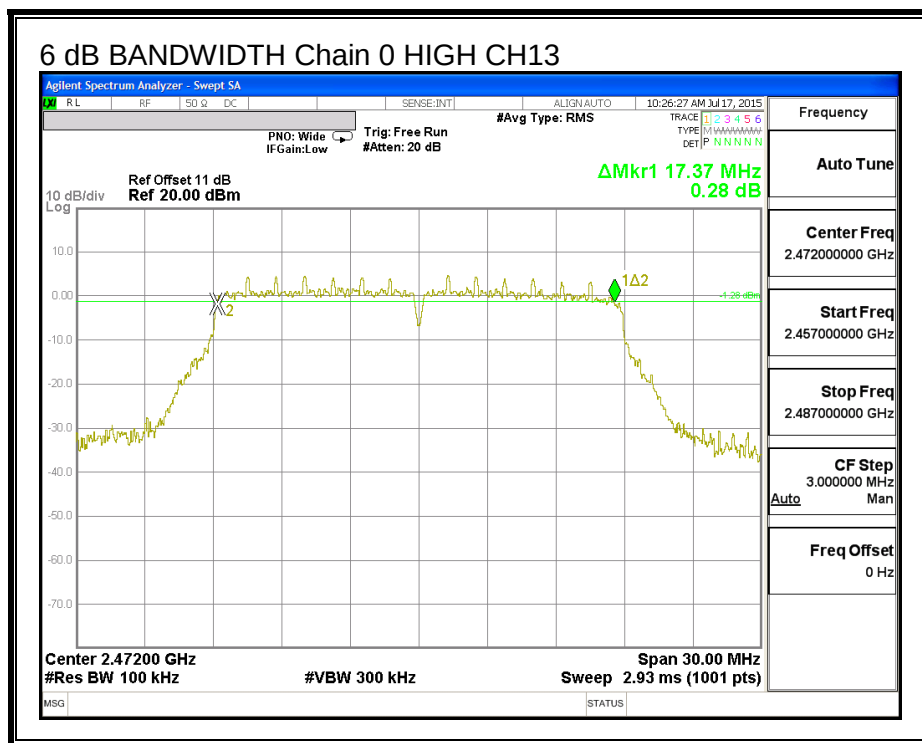
Channel	Frequency (MHz)	6 dB BW Chain 0 (MHz)	6 dB BW Chain 1 (MHz)	Minimum Limit (MHz)
Low_1	2412	17.55	17.64	0.5
Low_2	2417	17.61	17.61	0.5
Mid	2437	17.64	17.64	0.5
High_10	2457	17.64	17.61	0.5
High_11	2462	17.64	17.64	0.5
High_12	2467	17.61	17.67	0.5
High_13	2472	17.37	17.64	0.5

6 dB BANDWIDTH, Chain 0

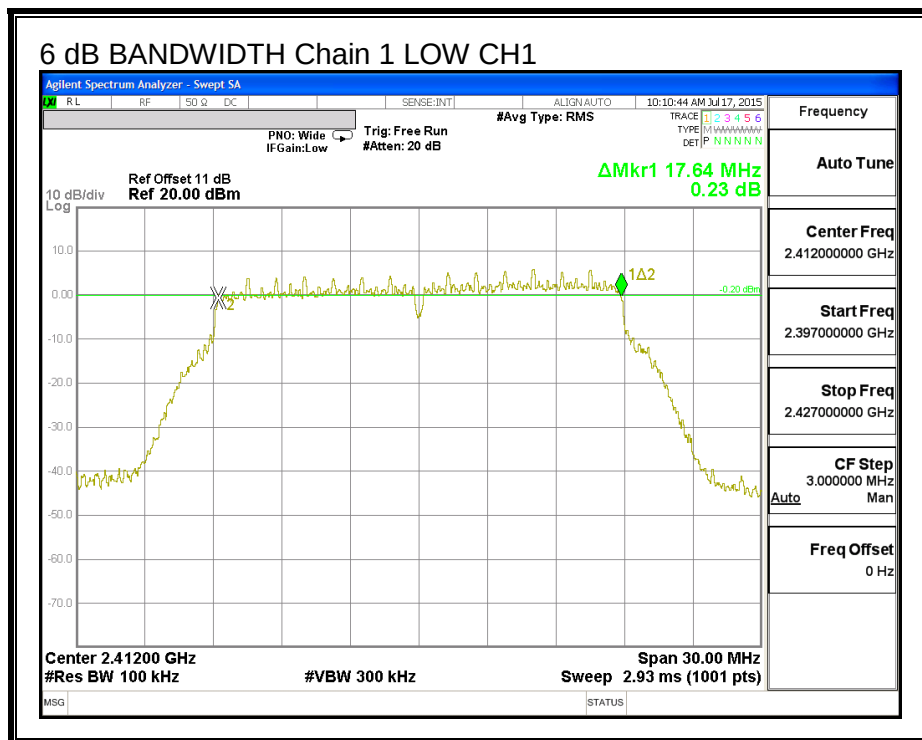


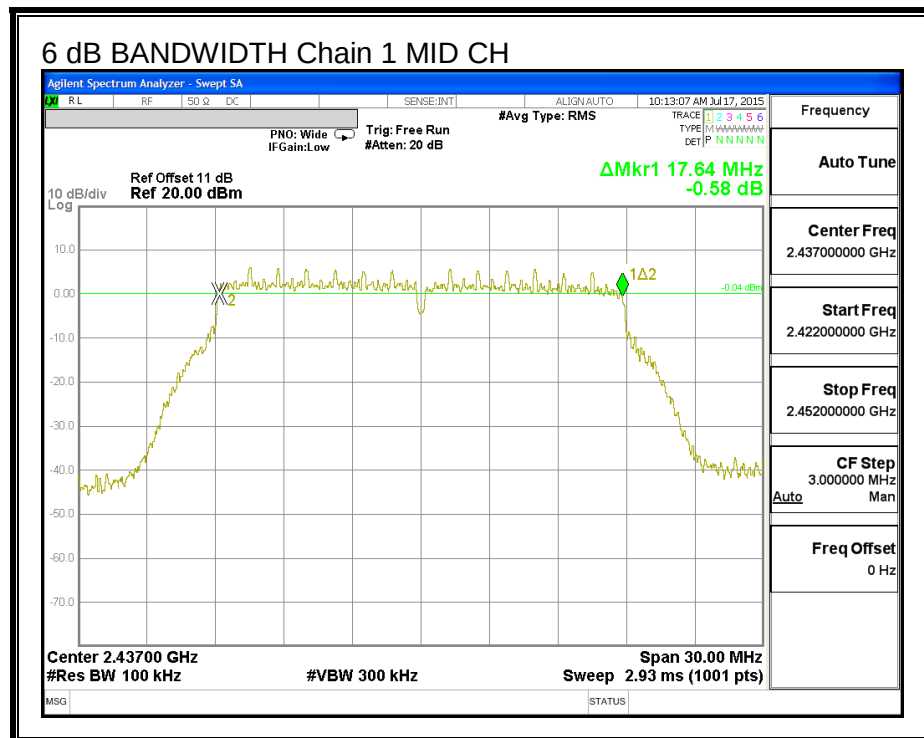
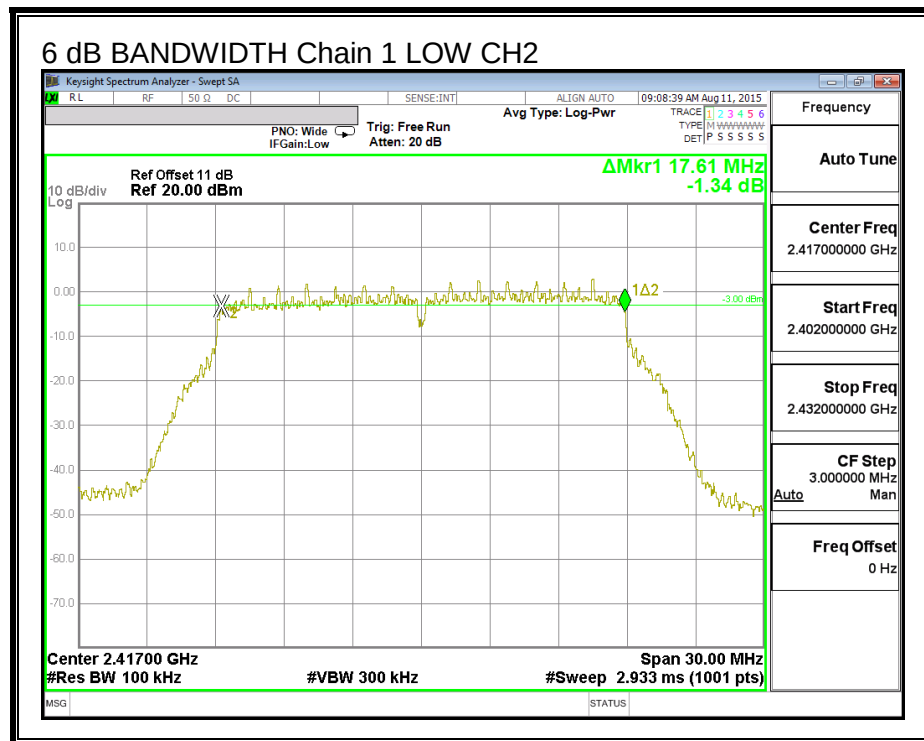


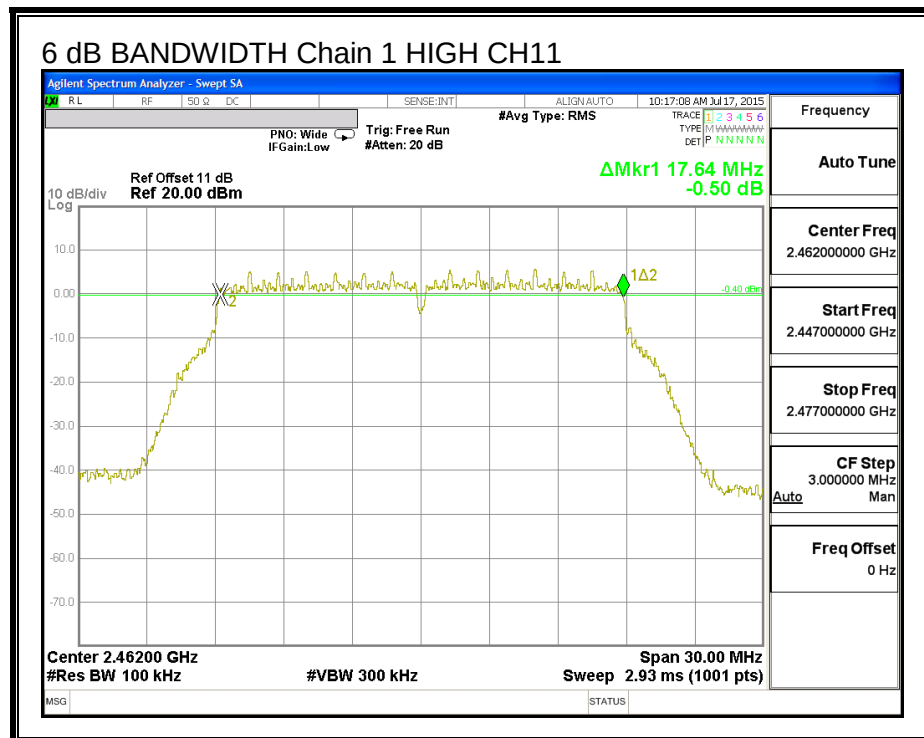
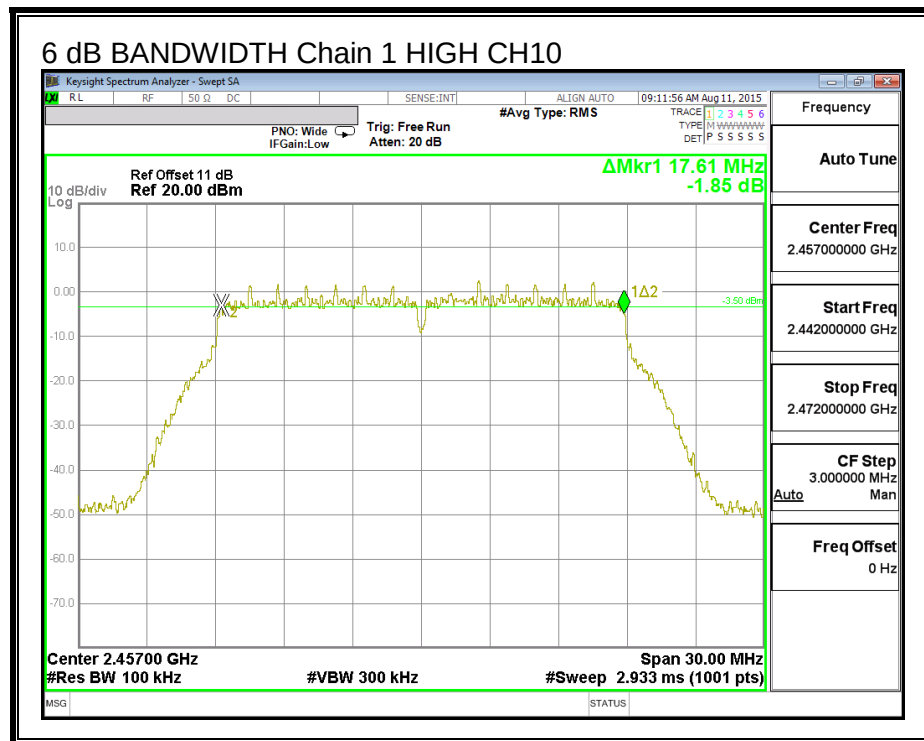


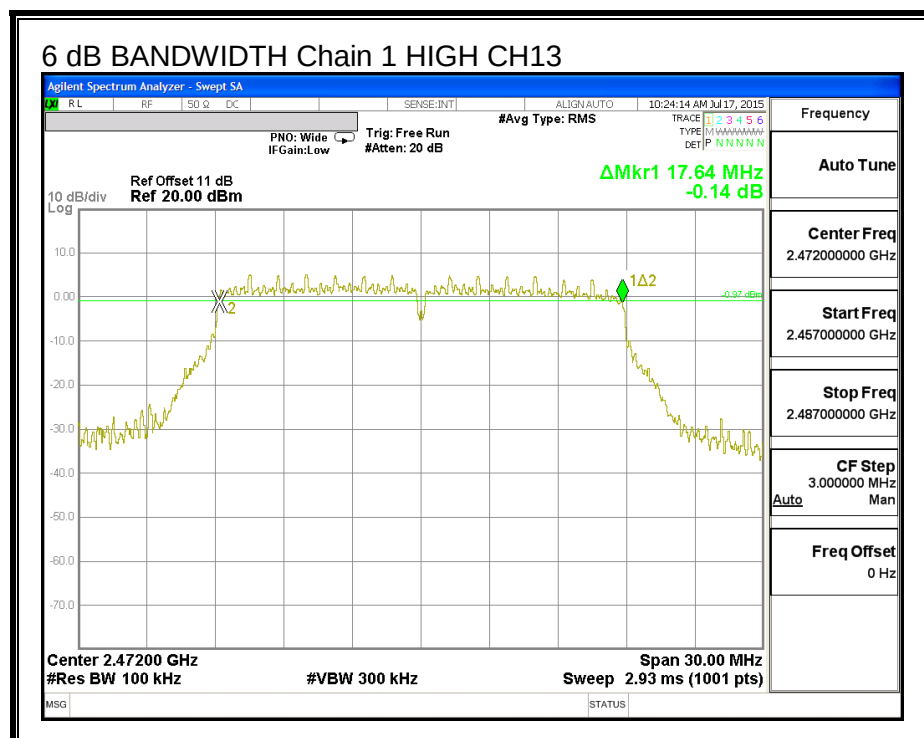
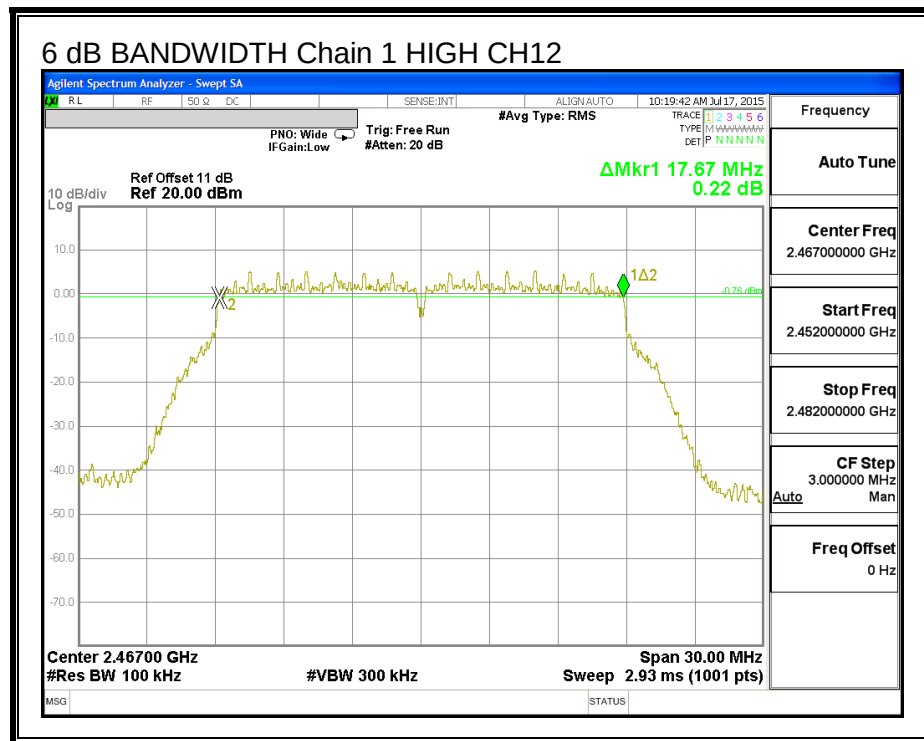


6 dB BANDWIDTH, Chain 1









8.6.2. 99% BANDWIDTH

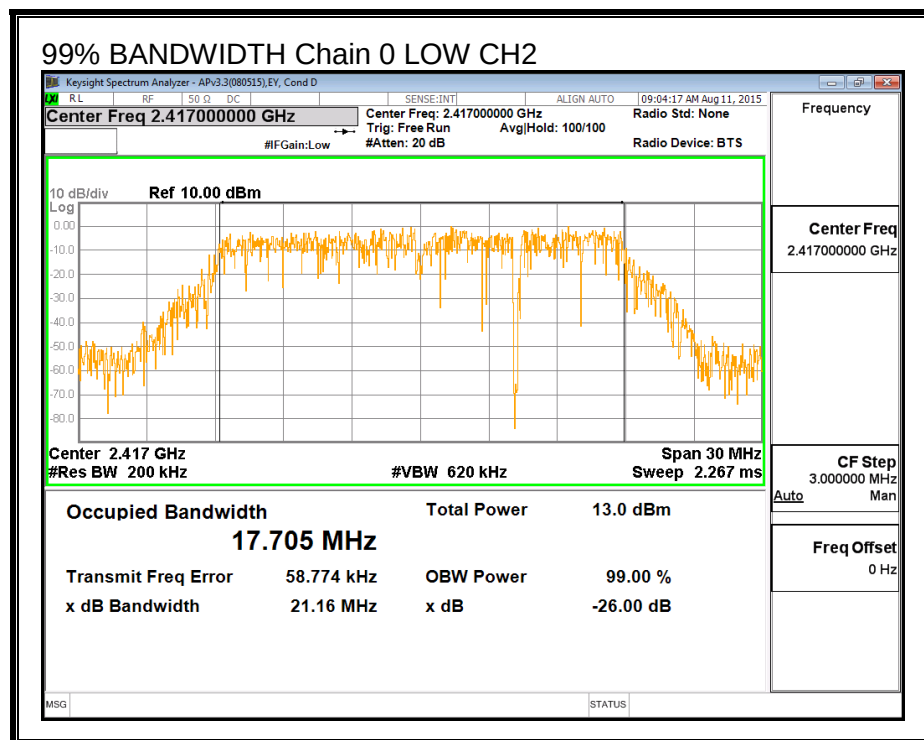
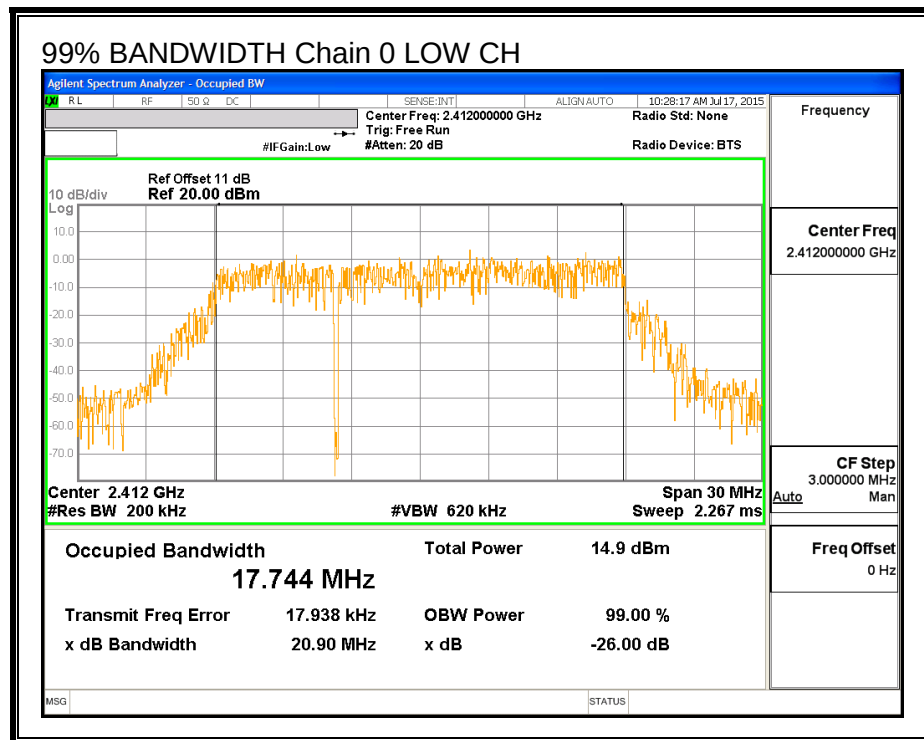
LIMITS

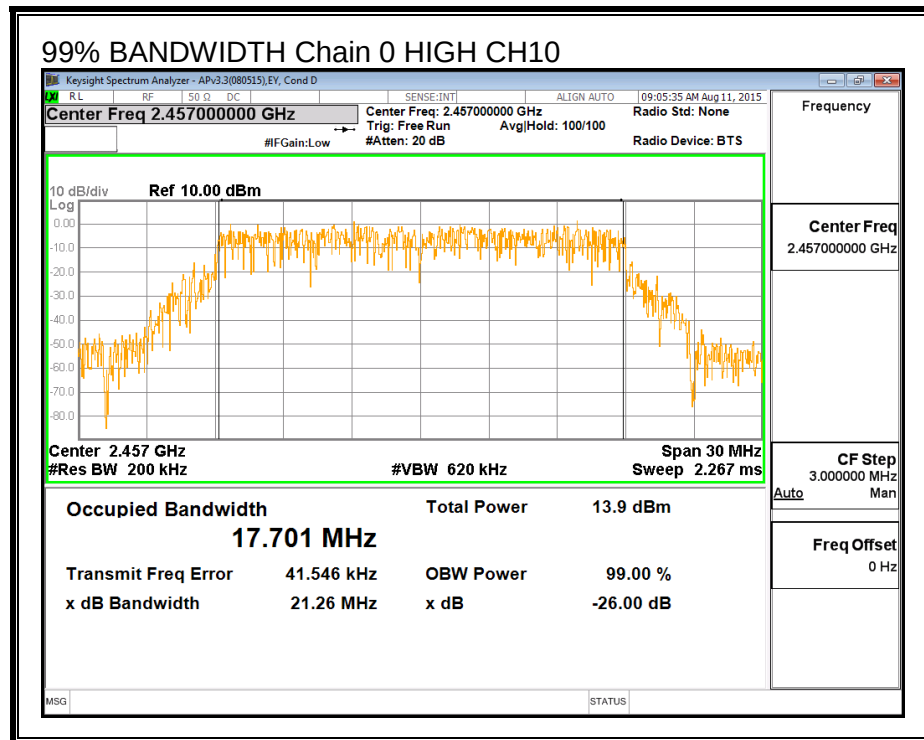
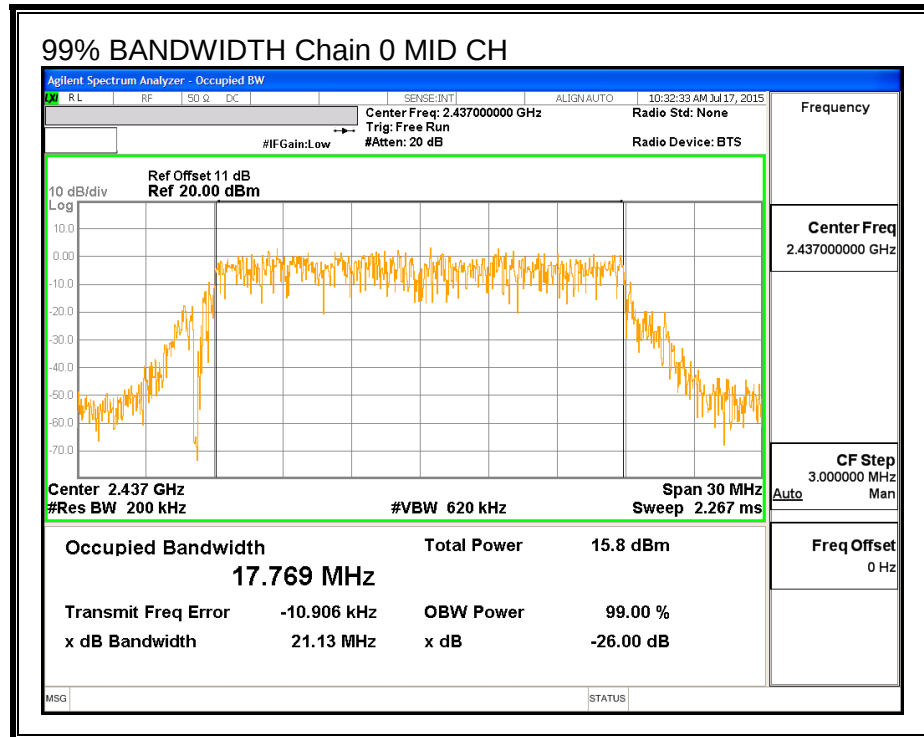
None; for reporting purposes only.

RESULTS

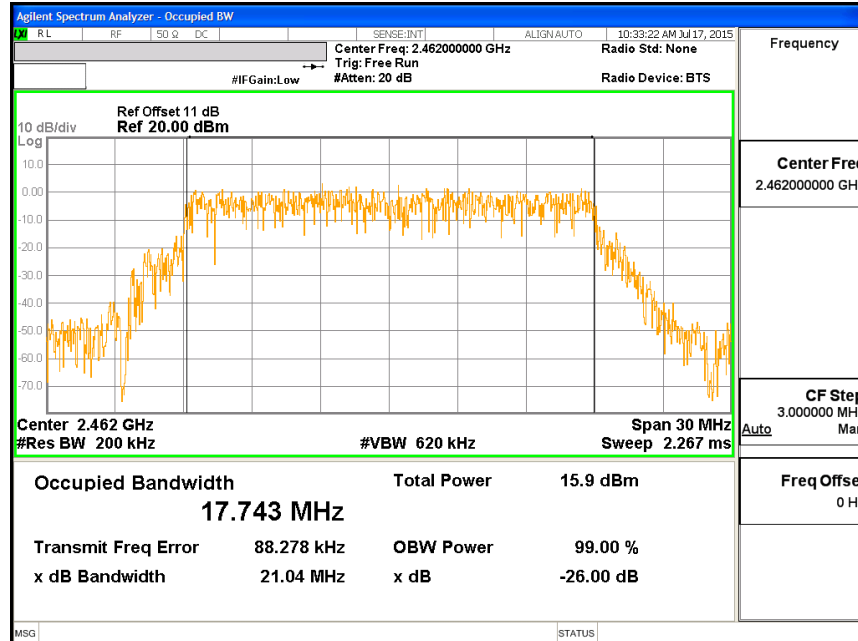
Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low_1	2412	17.744	17.717
Low_2	2417	17.705	17.658
Mid	2437	17.769	17.712
High_11	2457	17.701	17.749
High_11	2462	17.743	17.664
High_12	2467	17.730	17.695
High_13	2472	17.600	17.691

99% BANDWIDTH, Chain 0

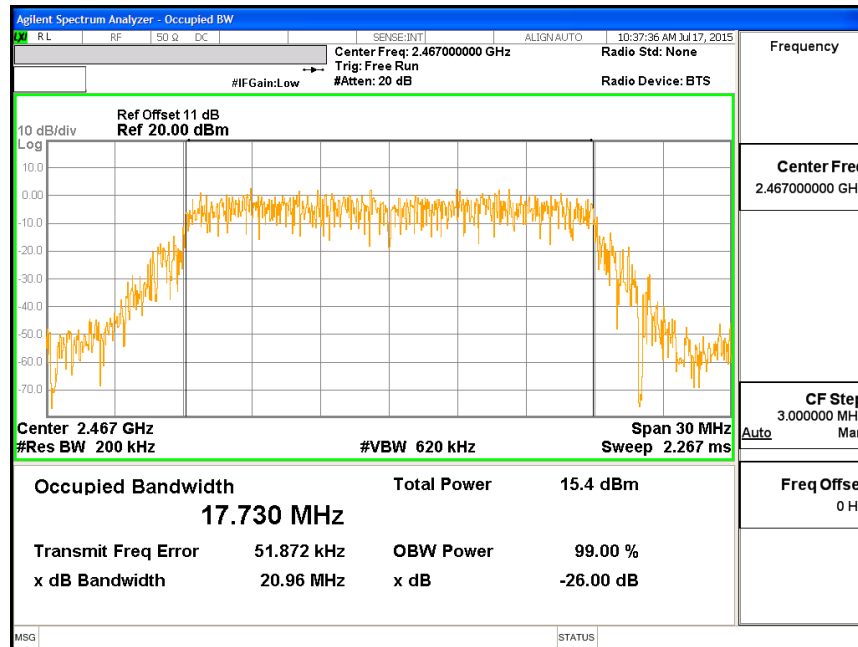


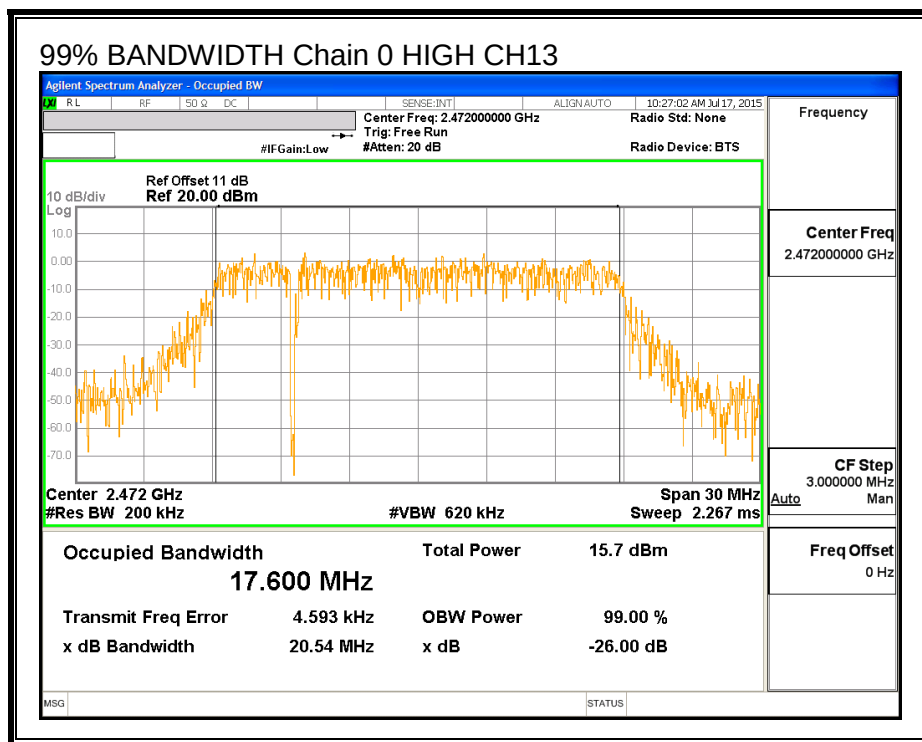


99% BANDWIDTH Chain 0 HIGH CH11

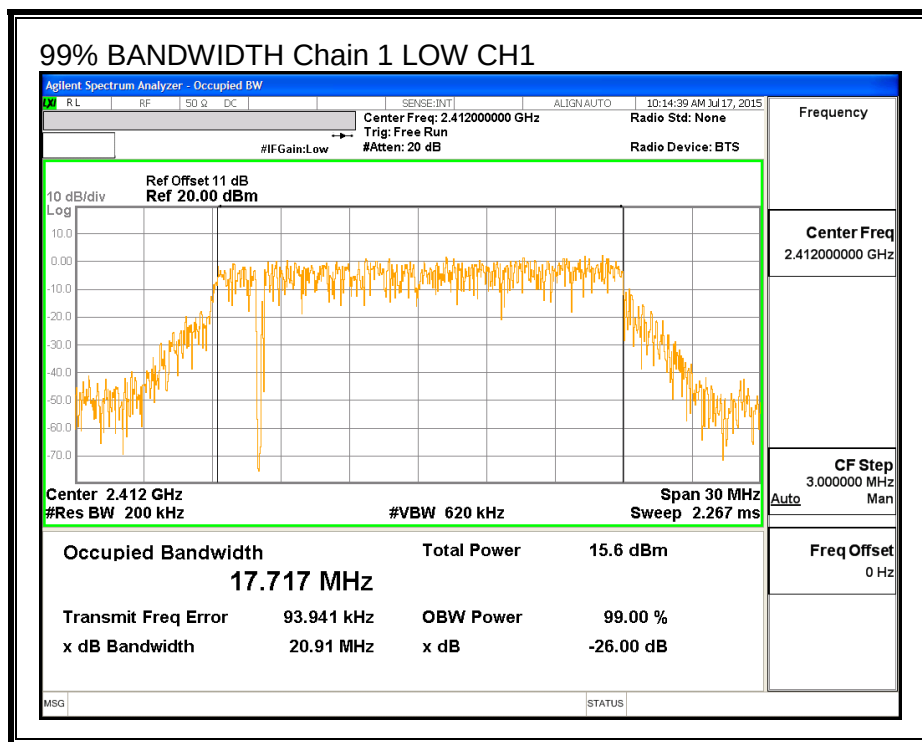


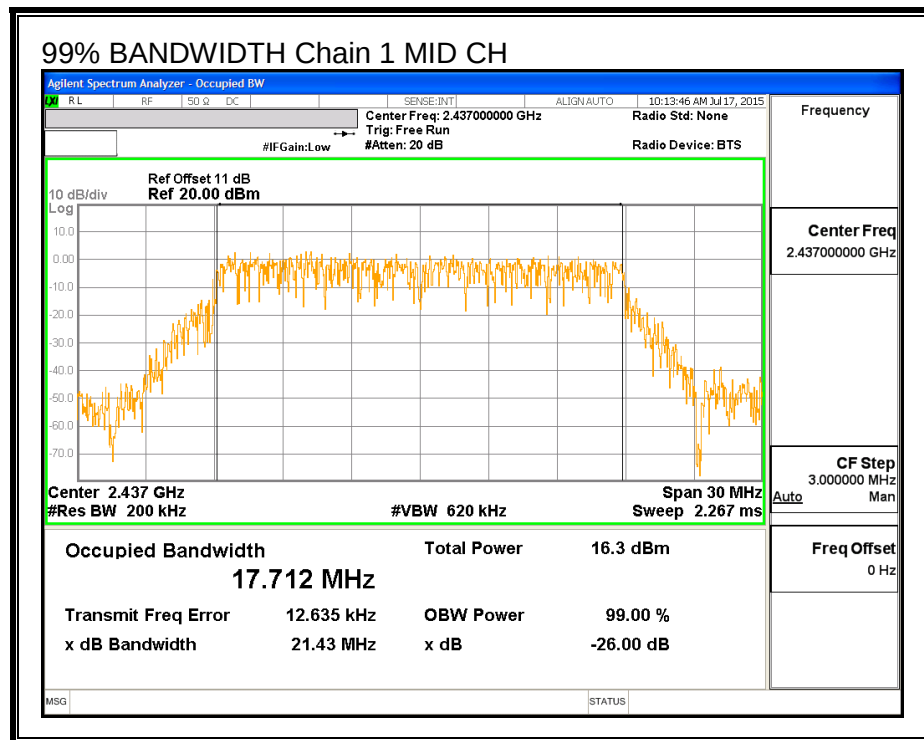
99% BANDWIDTH Chain 0 HIGH CH12

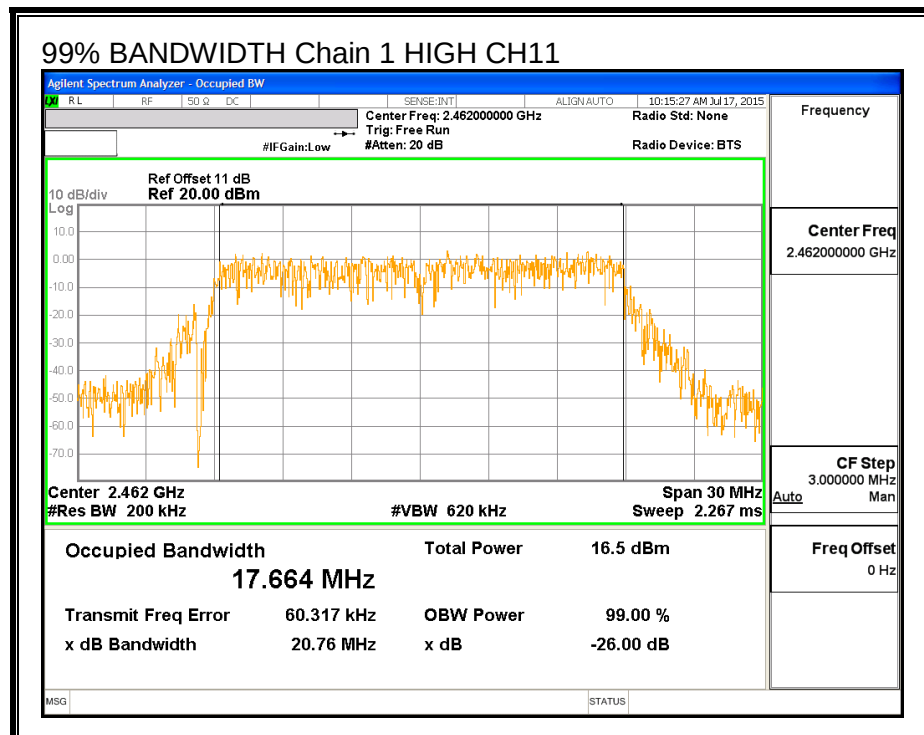
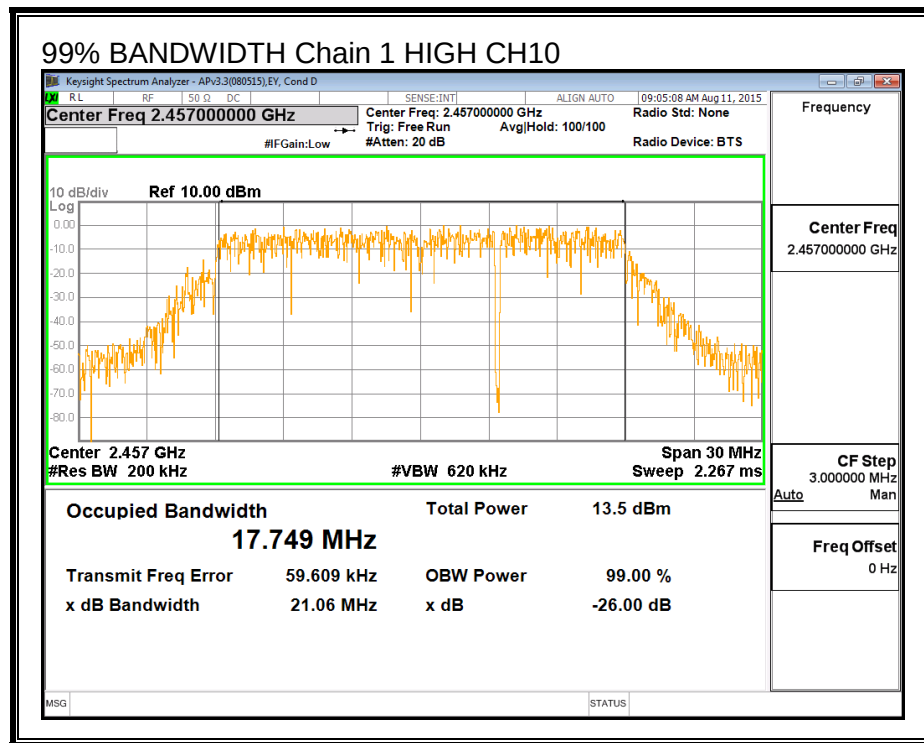


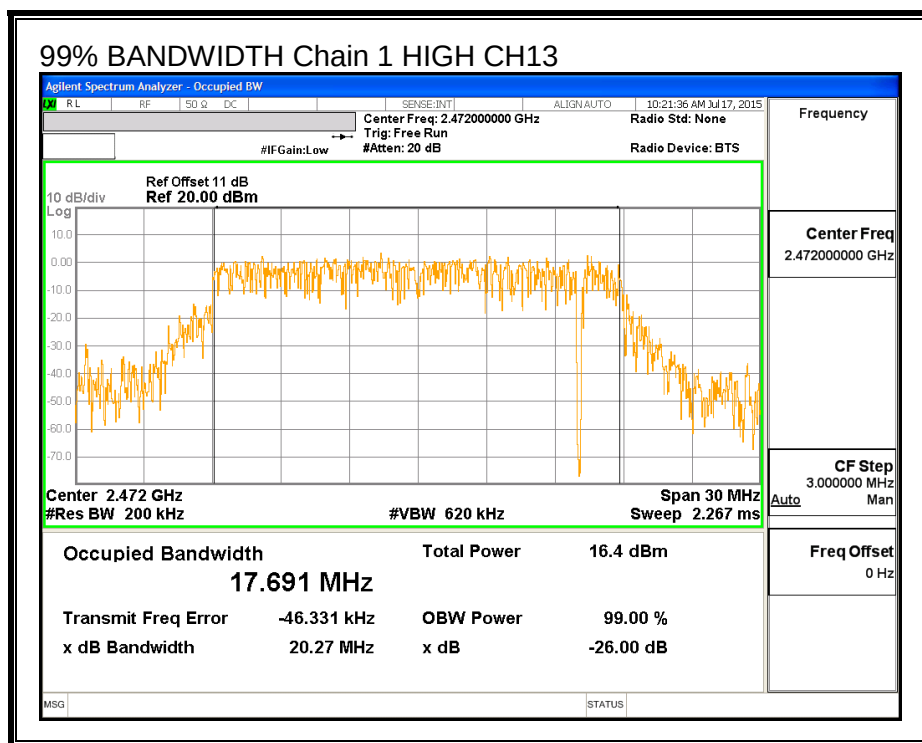
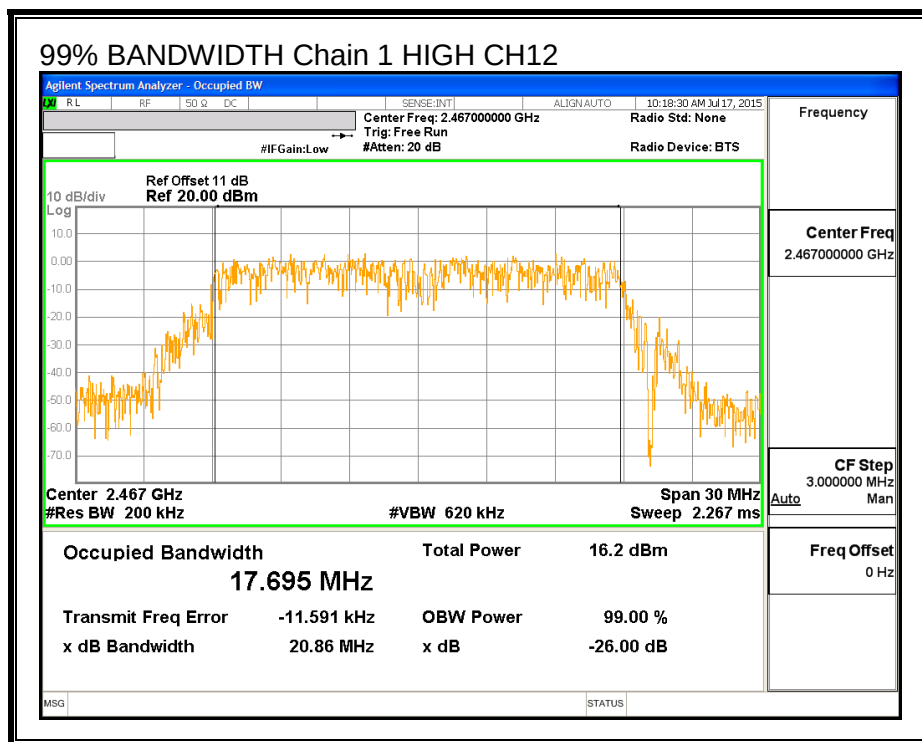


99% BANDWIDTH, Chain 1









8.6.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Total Power (dBm)
Low_1	2412	13.89	13.91	16.91
Low_2	2417	15.92	15.88	18.91
Mid	2437	15.94	15.93	18.95
High_10	2457	15.87	15.92	18.91
High_11	2462	13.88	13.89	16.90
High_12	2467	9.87	9.87	12.88
High_13	2472	2.44	2.44	5.45

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 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
-0.60	-0.50	-0.55

RESULTS

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	-0.55	30.00	30	36	30.00
Low_2	2417	-0.55	30.00	30	36	30.00
Mid	2437	-0.55	30.00	30	36	30.00
High_10	2457	-0.55	30.00	30	36	30.00
High_11	2462	-0.55	30.00	30	36	30.00
High_12	2467	-0.55	30.00	30	36	30.00
High_13	2472	-0.55	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	21.13	21.14	24.15	30.00	-5.85
Low_2	2417	23.11	23.08	26.11	30.00	-3.89
Mid	2437	23.15	23.13	26.15	30.00	-3.85
High_10	2457	23.08	23.12	26.11	30.00	-3.89
High_11	2462	21.11	21.13	24.13	30.00	-5.87
High_12	2467	17.18	17.14	20.17	30.00	-9.83
High_13	2472	9.70	9.65	12.69	30.00	-17.31

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.

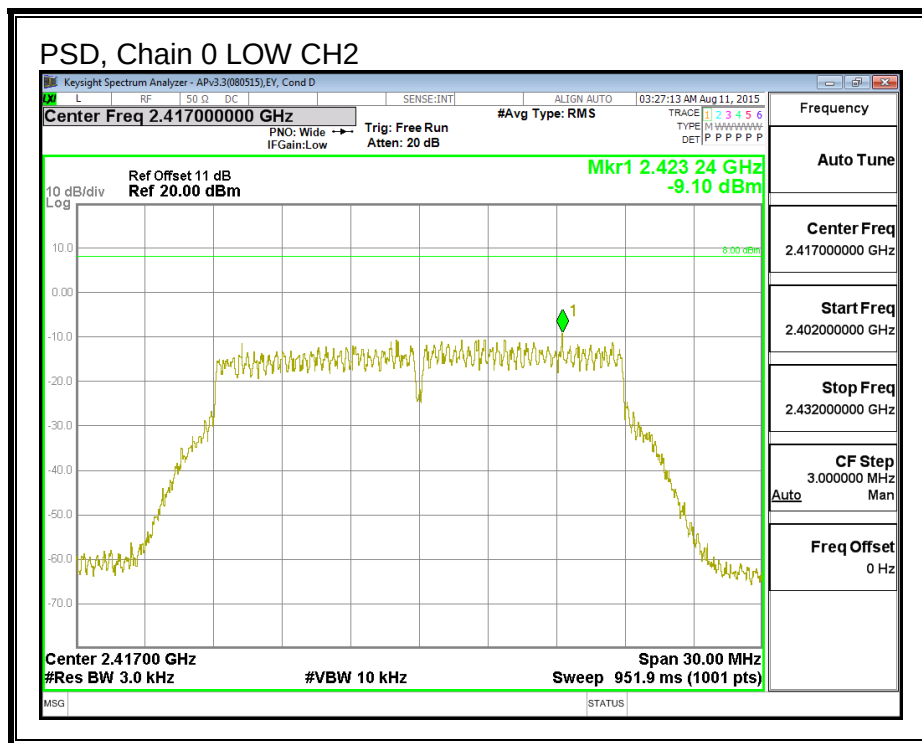
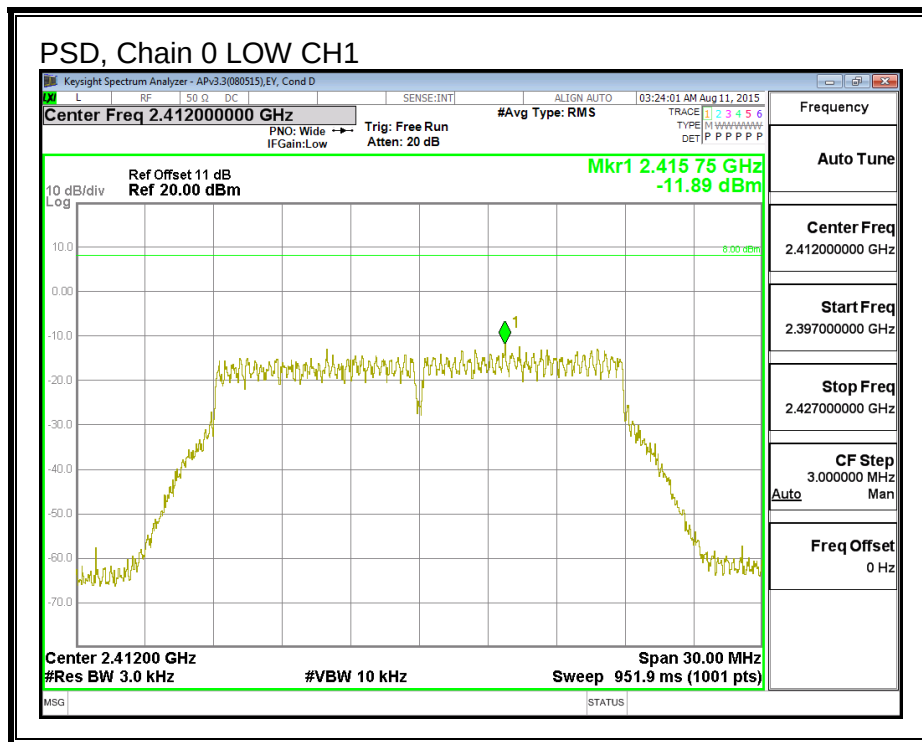
RESULTS

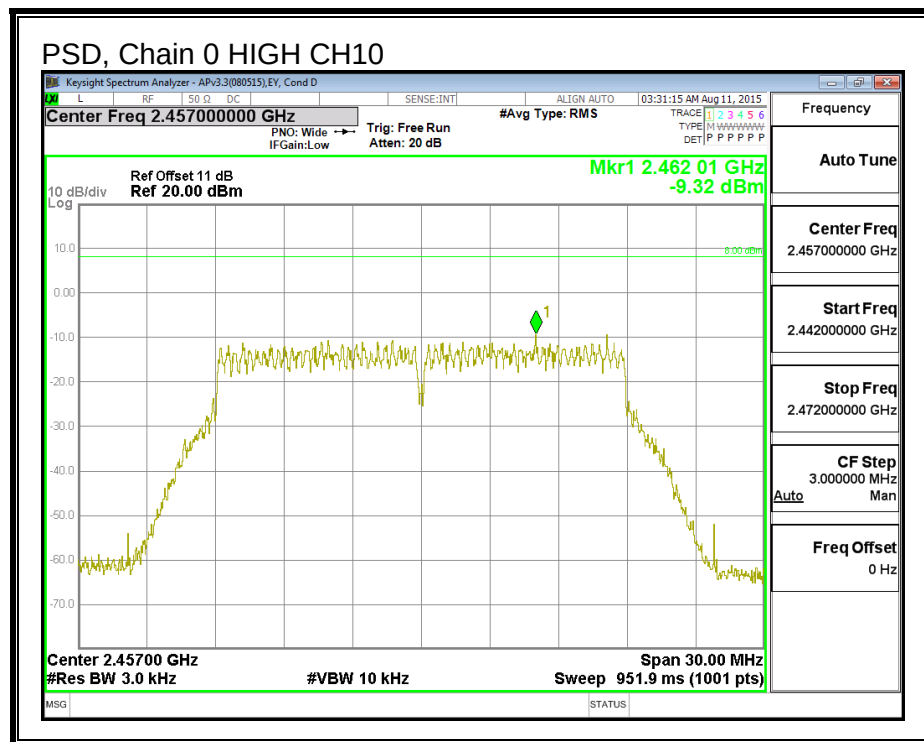
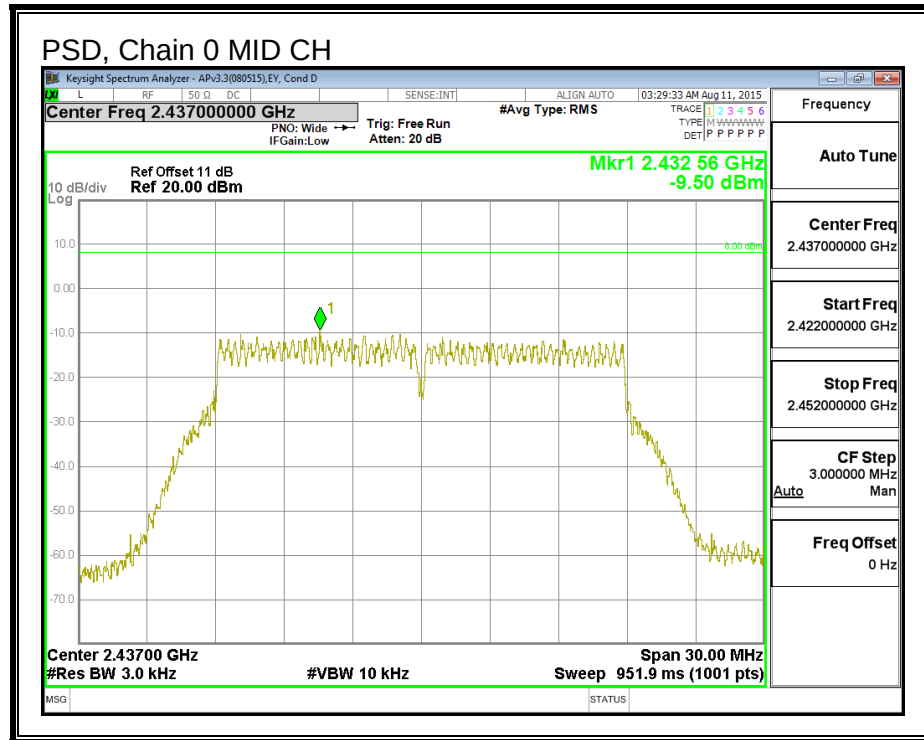
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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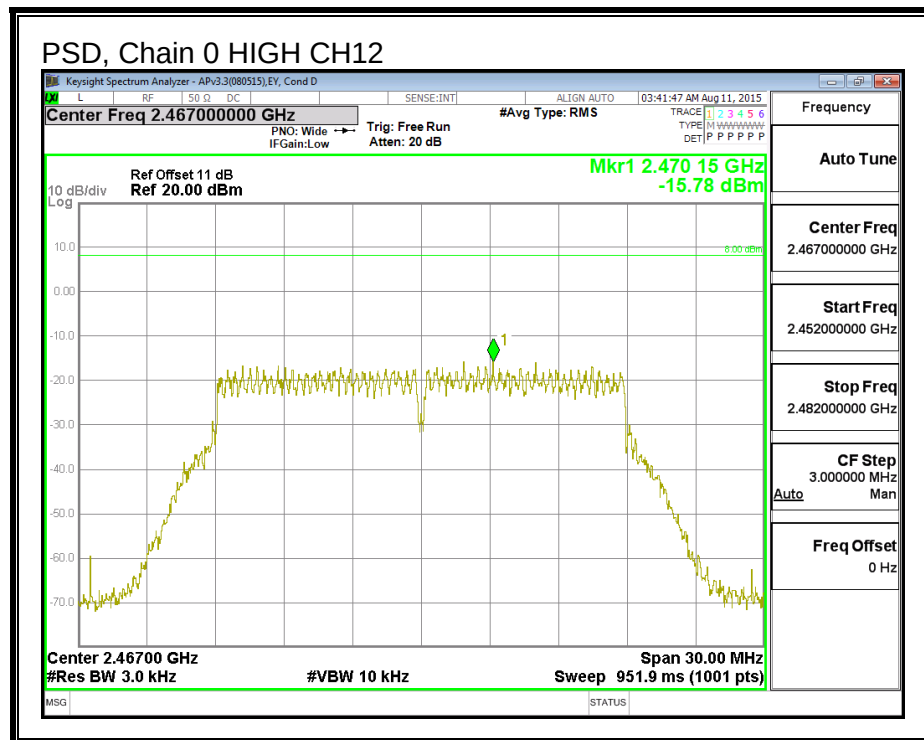
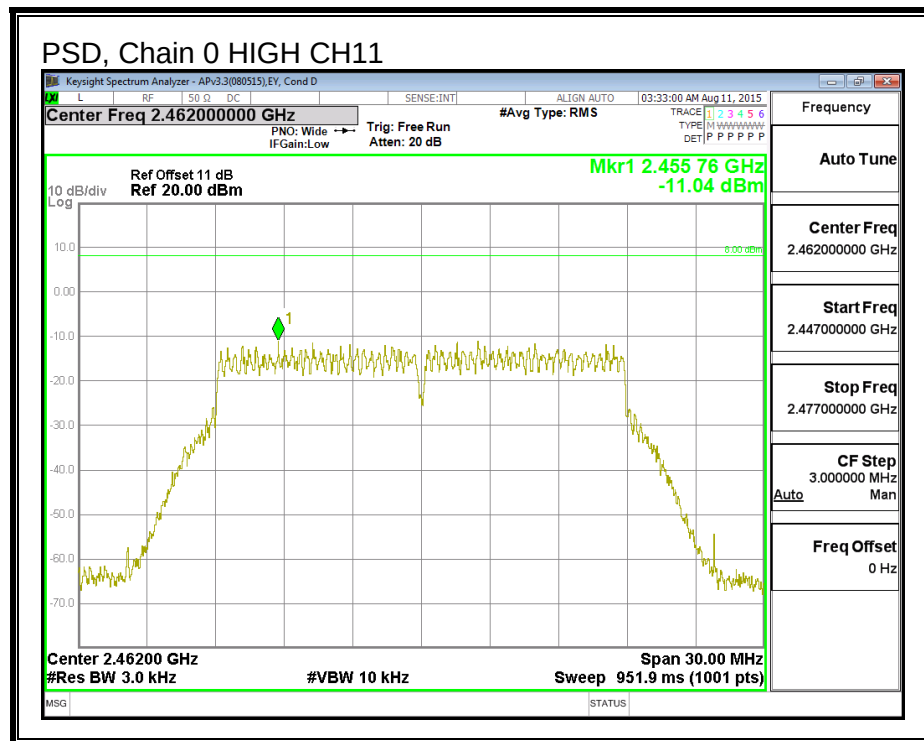
PSD Results

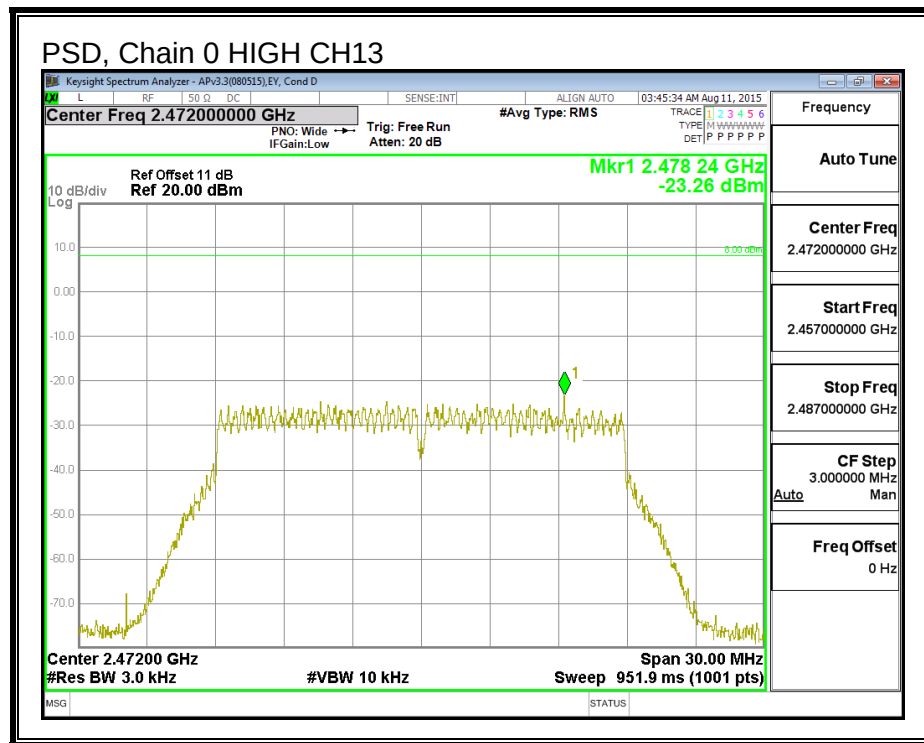
Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Chain 1 Meas (dBm)	Total Corr'd PSD (dBm)	Limit (dBm)	Margin (dB)
Low_1	2412	-11.89	-11.27	-8.56	8.0	-16.6
Low_2	2417	-9.10	-9.82	-6.43	8.0	-14.4
Mid	2437	-9.50	-9.71	-6.59	8.0	-14.6
High_10	2457	-9.32	-9.49	-6.39	8.0	-14.4
High_11	2462	-11.04	-10.82	-7.92	8.0	-15.9
High_12	2467	-15.78	-15.61	-12.68	8.0	-20.7
High_13	2472	-23.26	-23.56	-20.40	8.0	-28.4

PSD, Chain 0

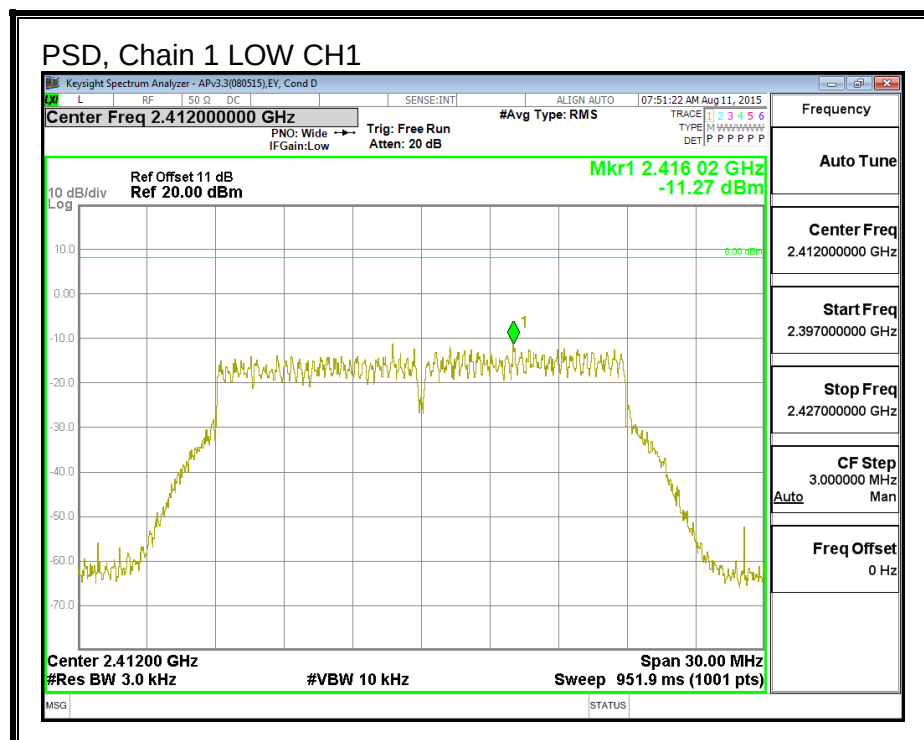


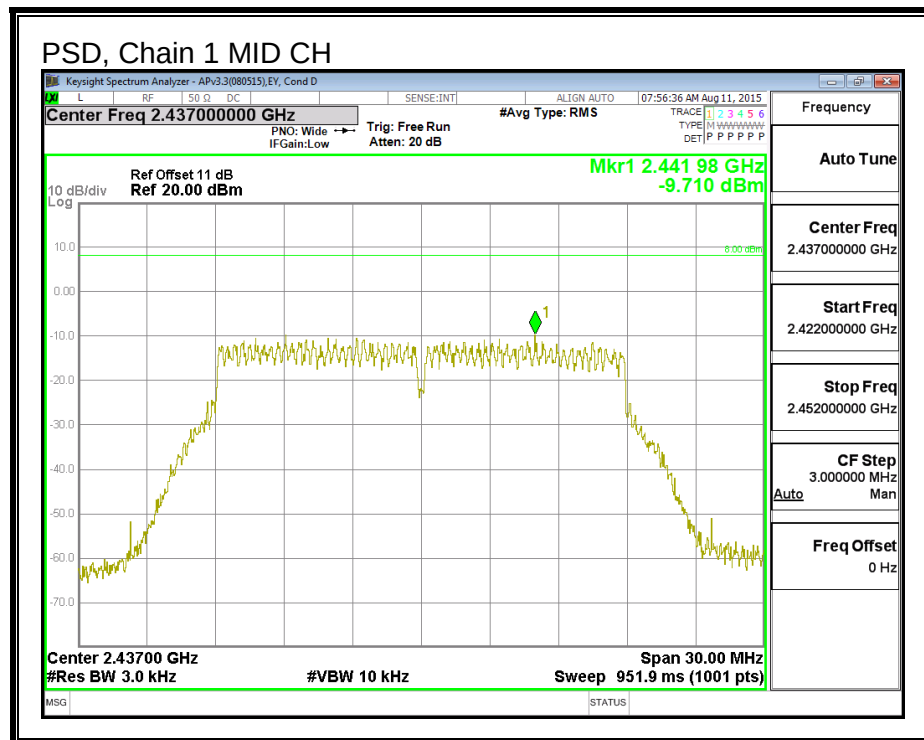
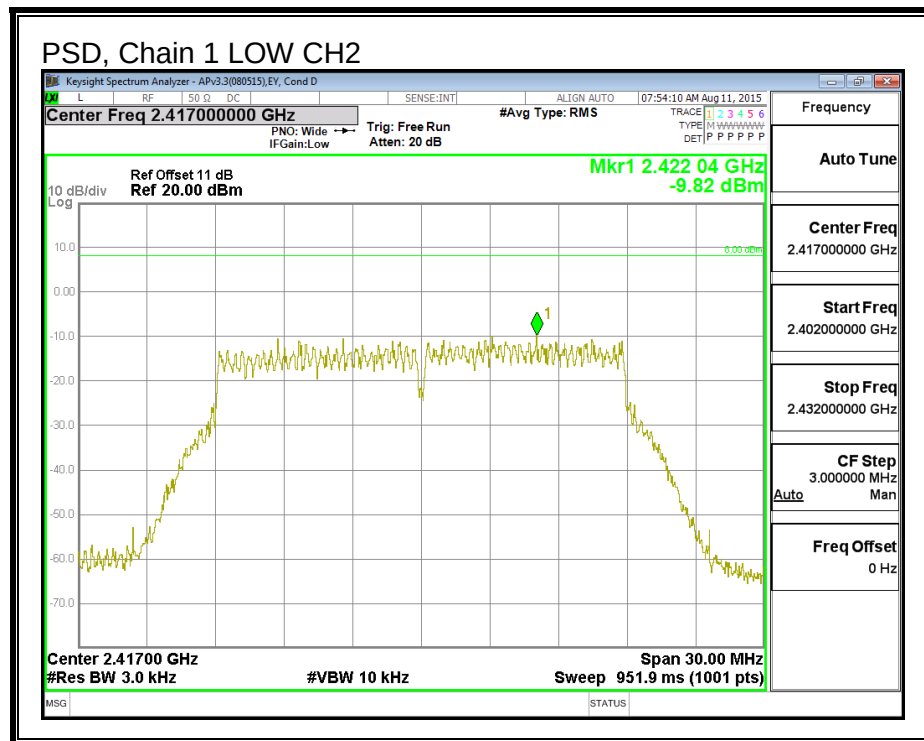


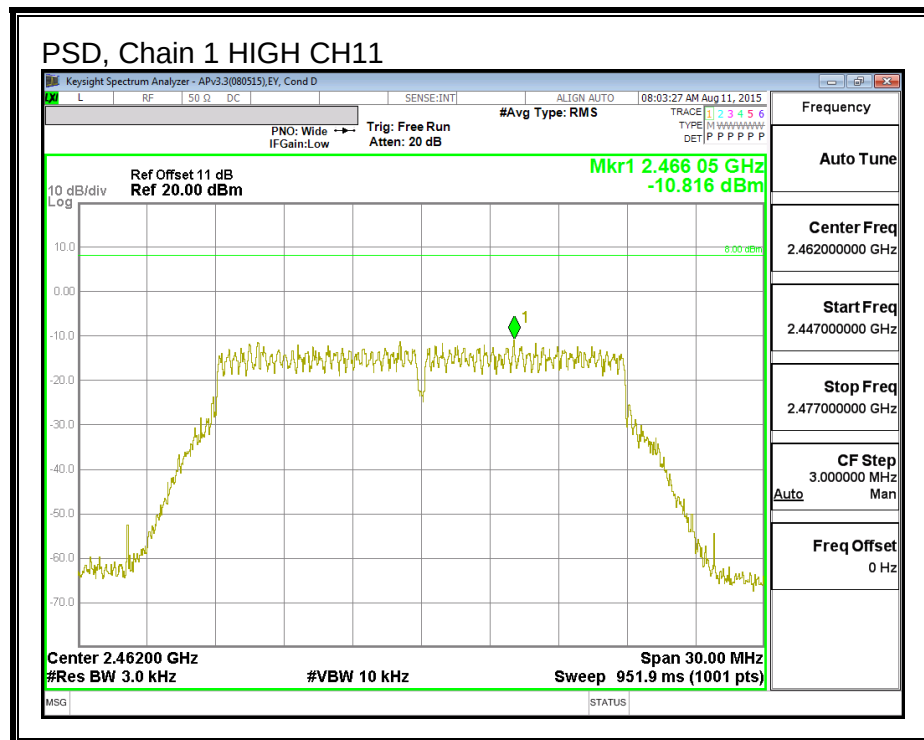
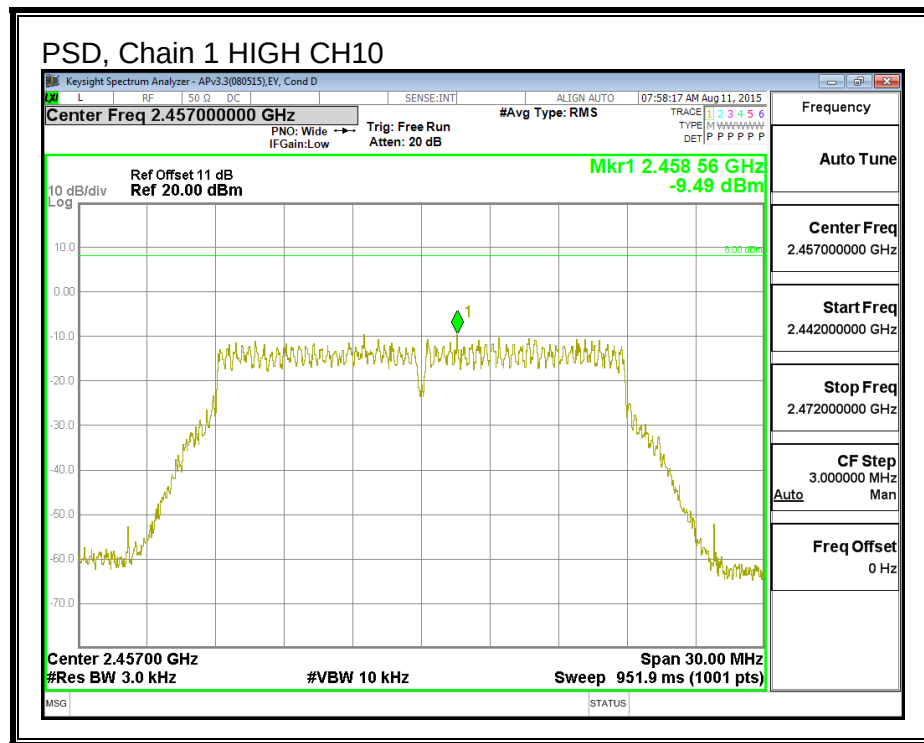


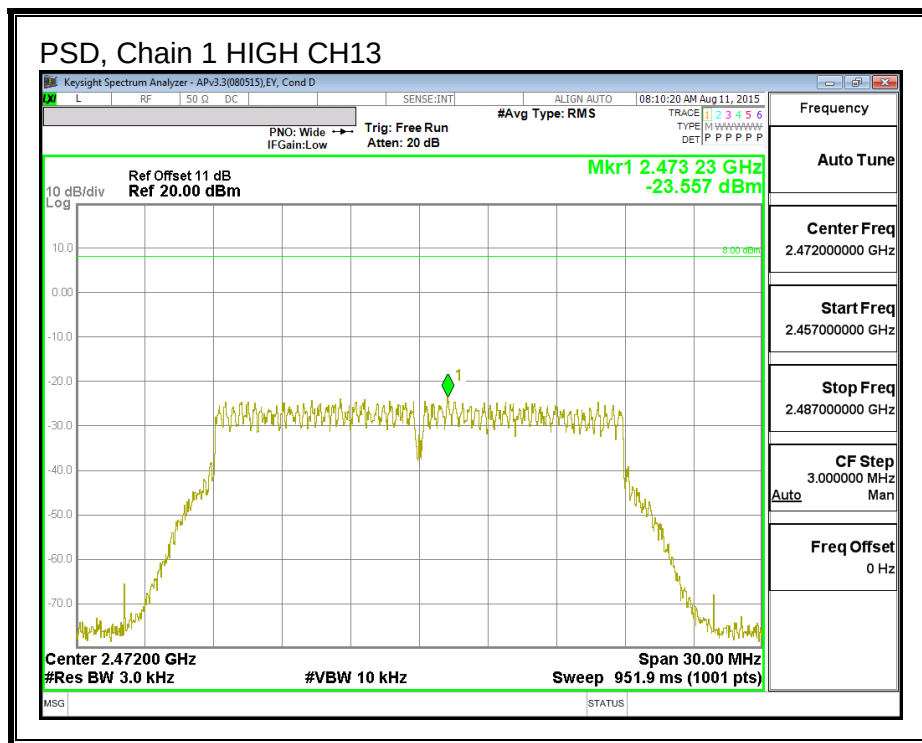
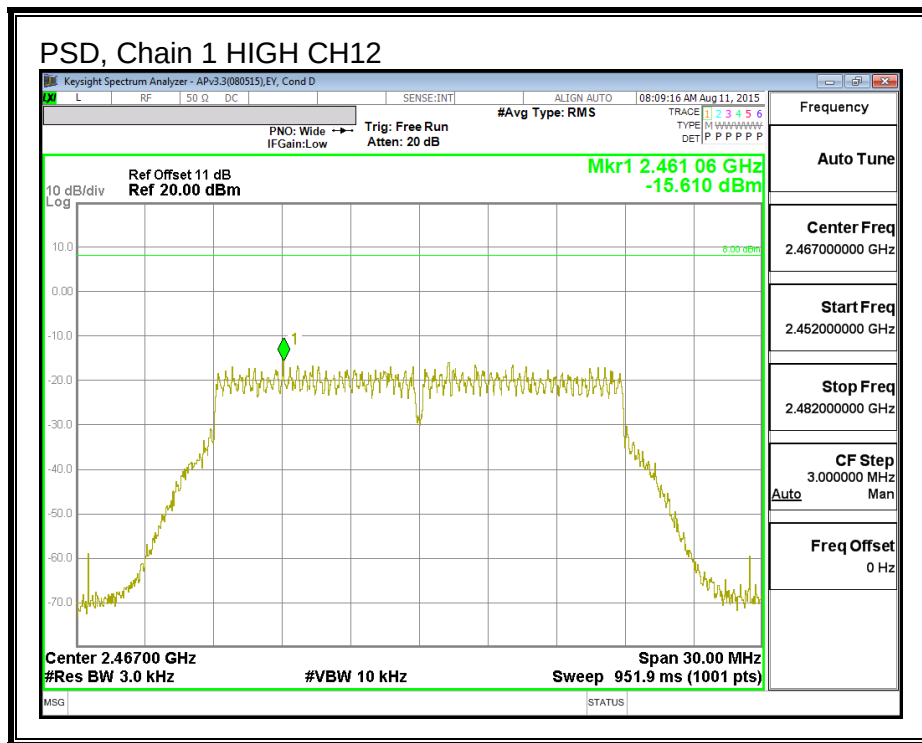


PSD, Chain 1









8.6.6. OUT-OF-BAND EMISSIONS

LIMITS

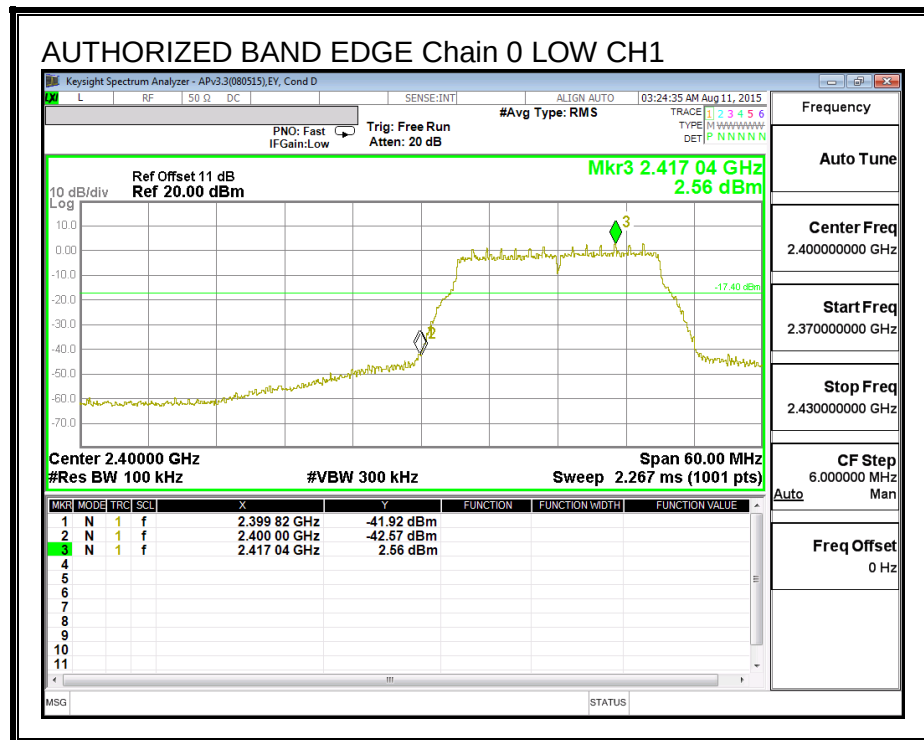
FCC §15.247 (d)

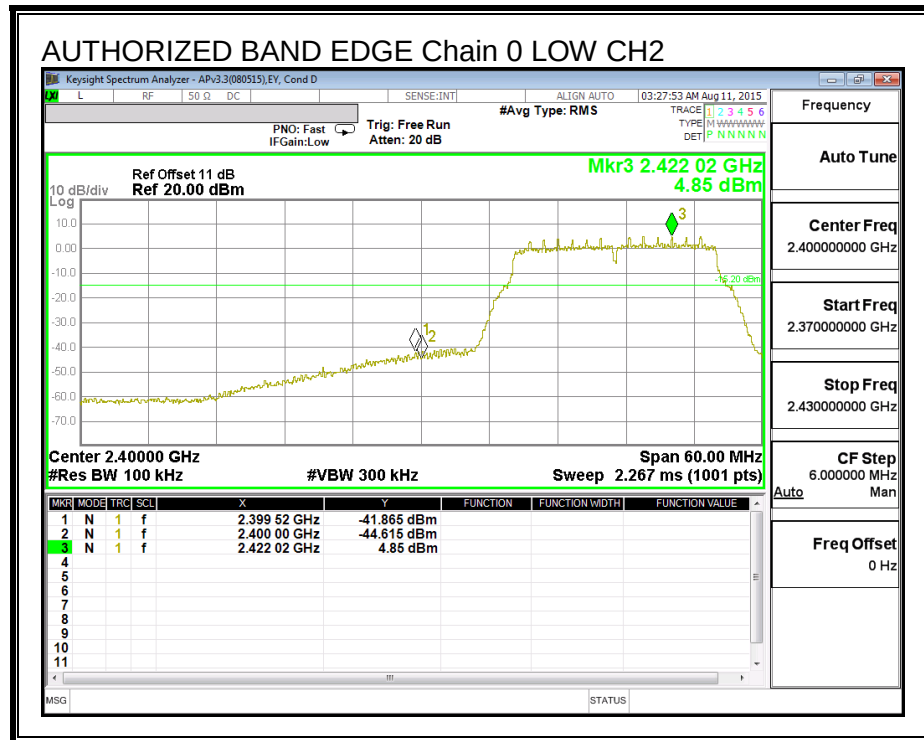
IC RSS-247 (5.5)

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.

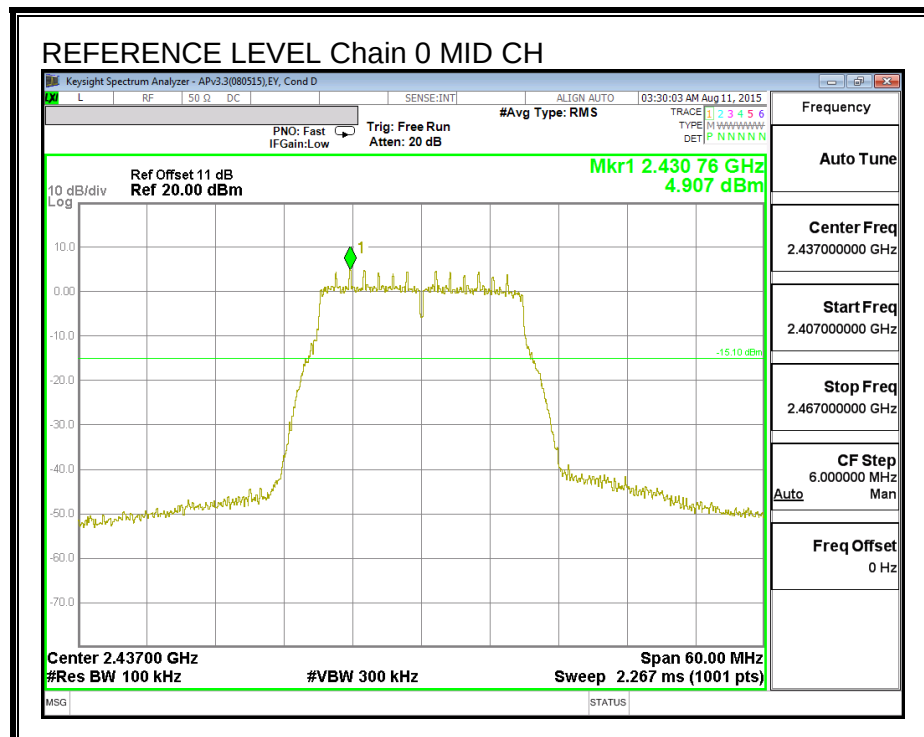
RESULTS

LOW CHANNEL BANDEDGE, Chain 0

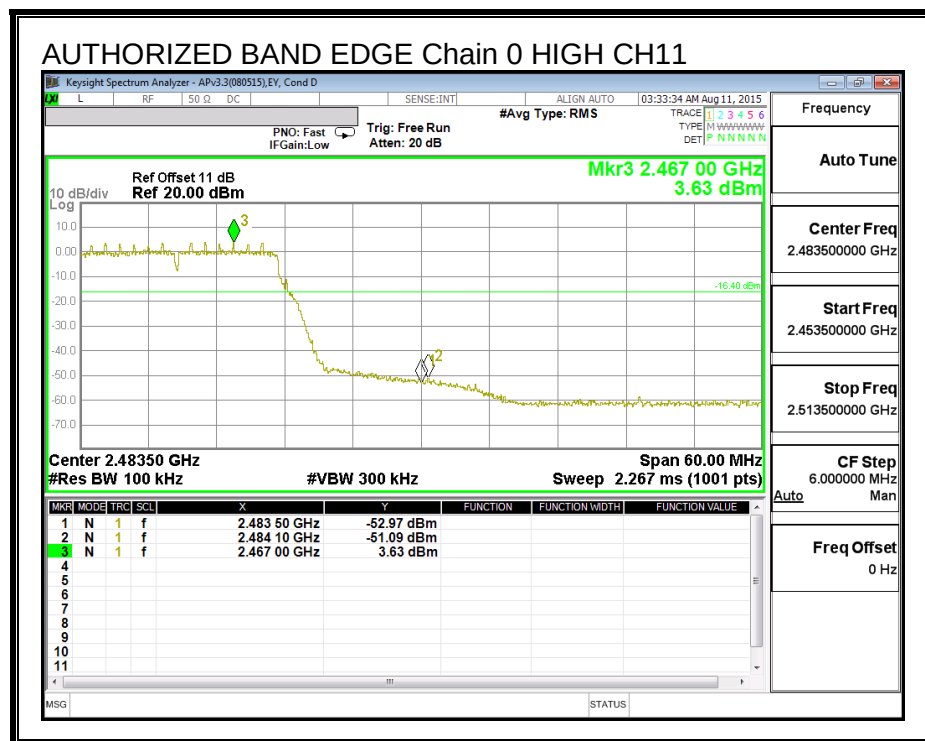
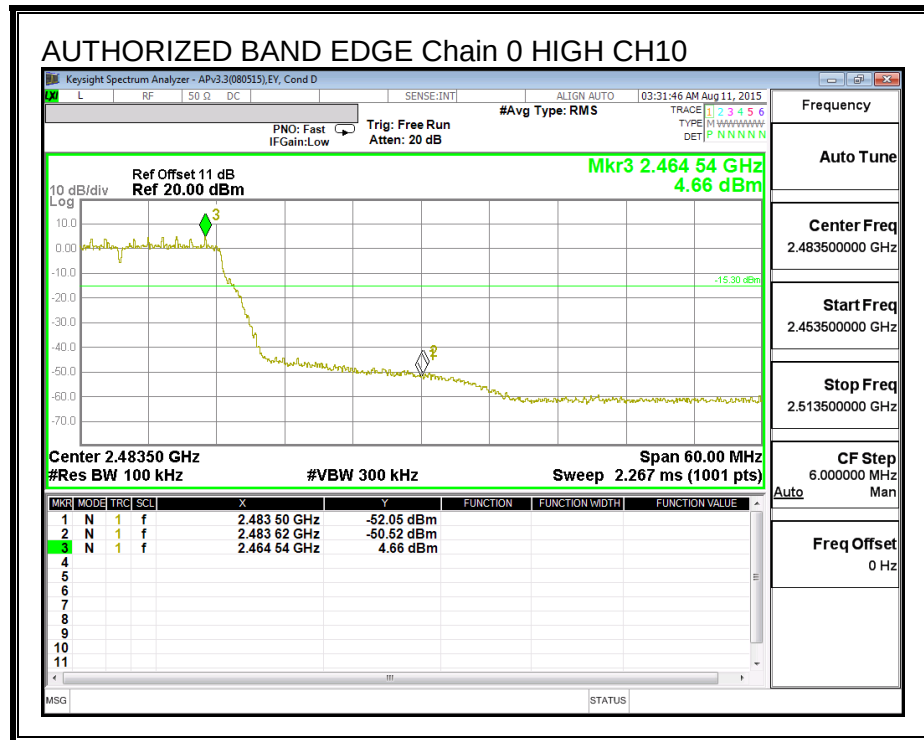


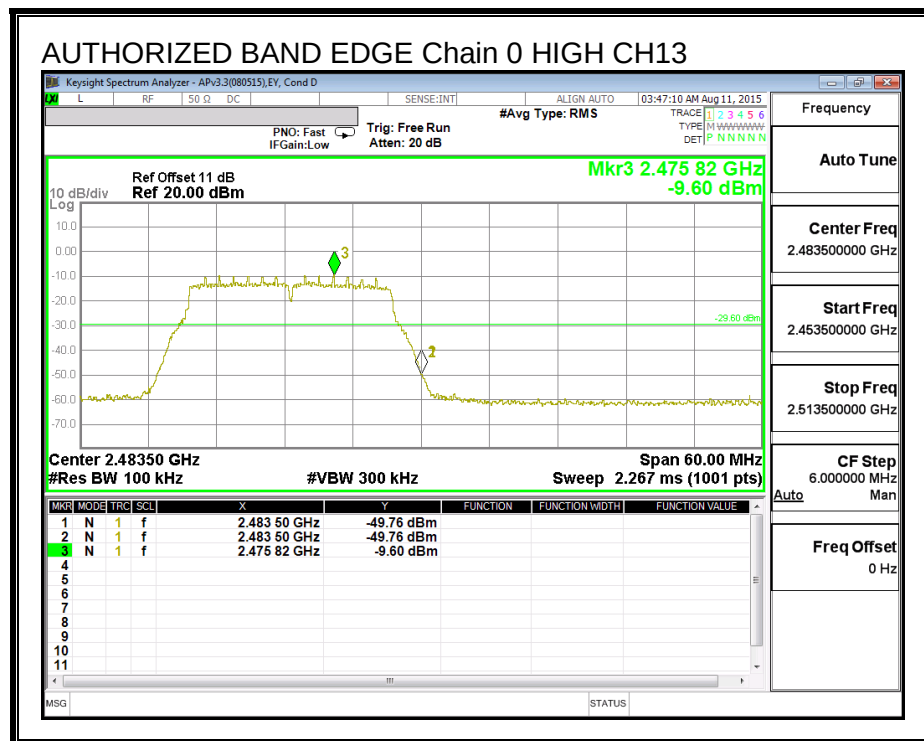
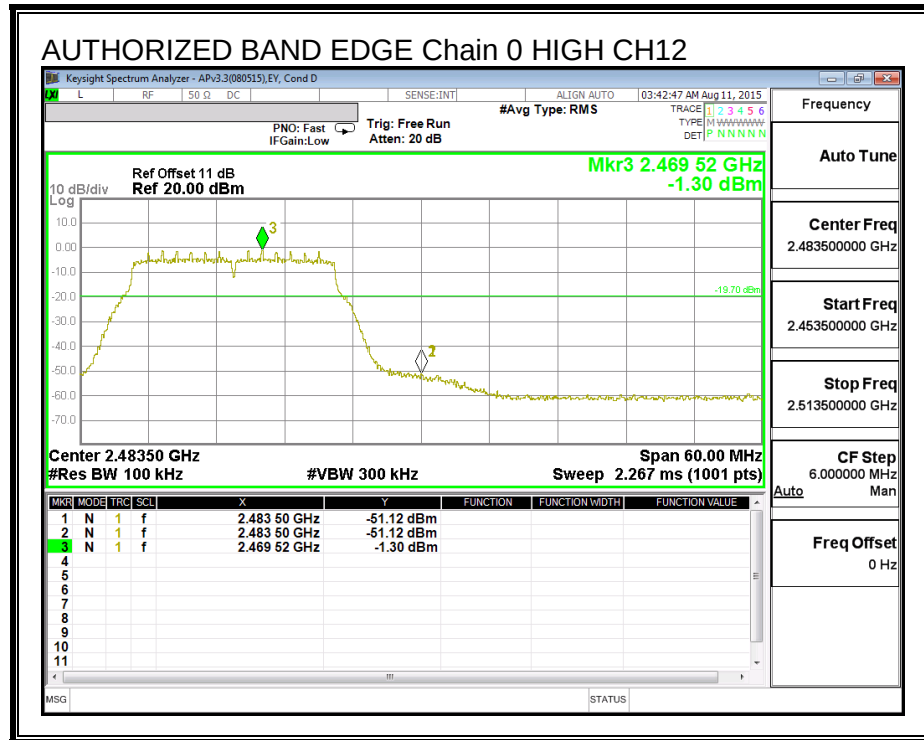


IN-BAND REFERENCE LEVEL, Chain 0

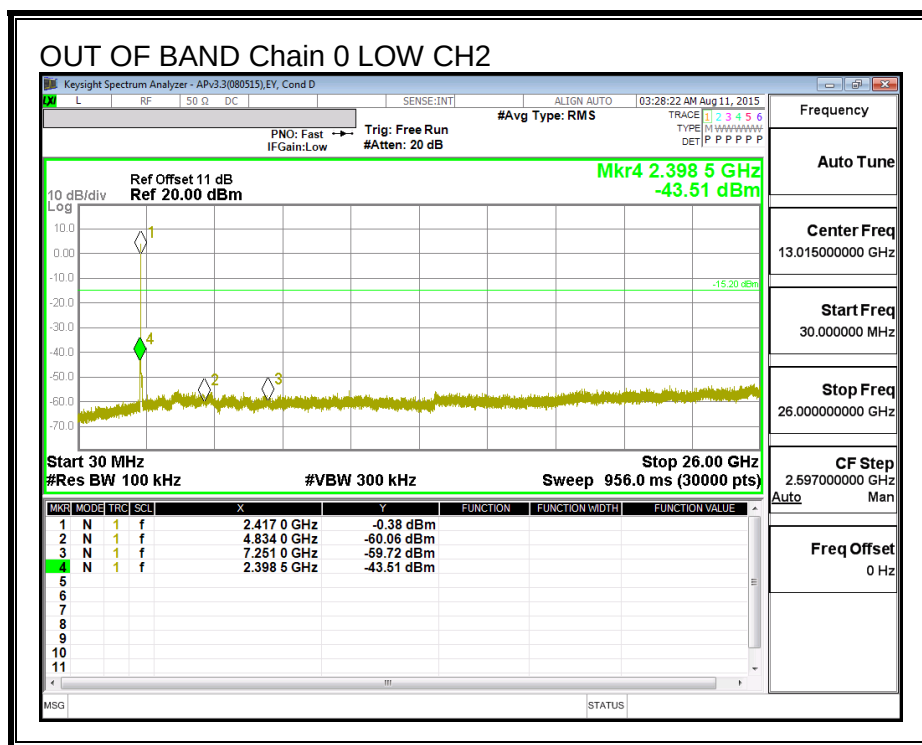
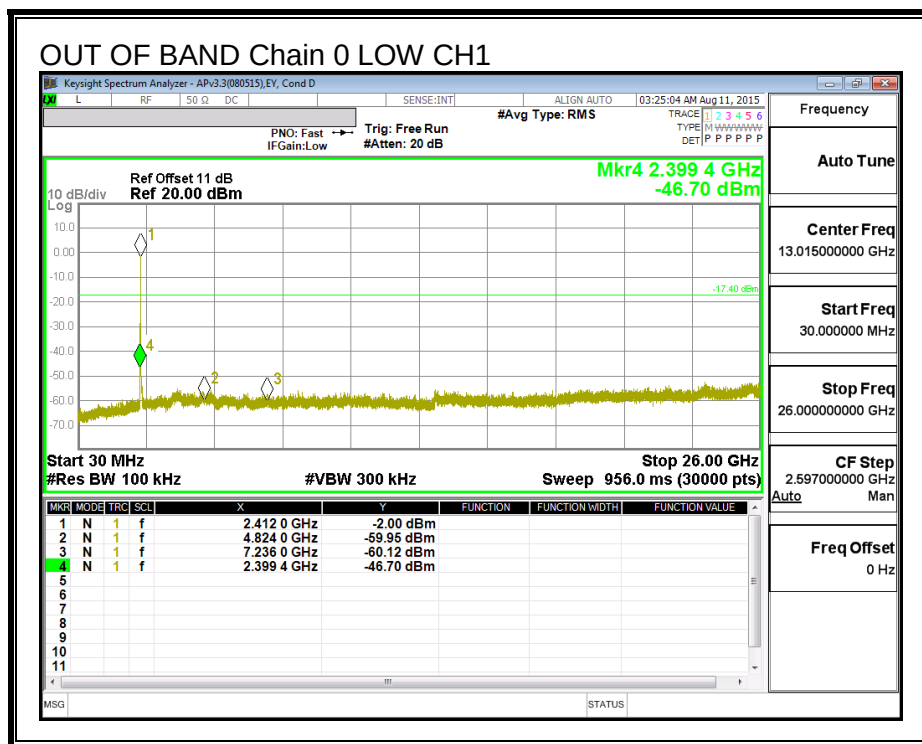


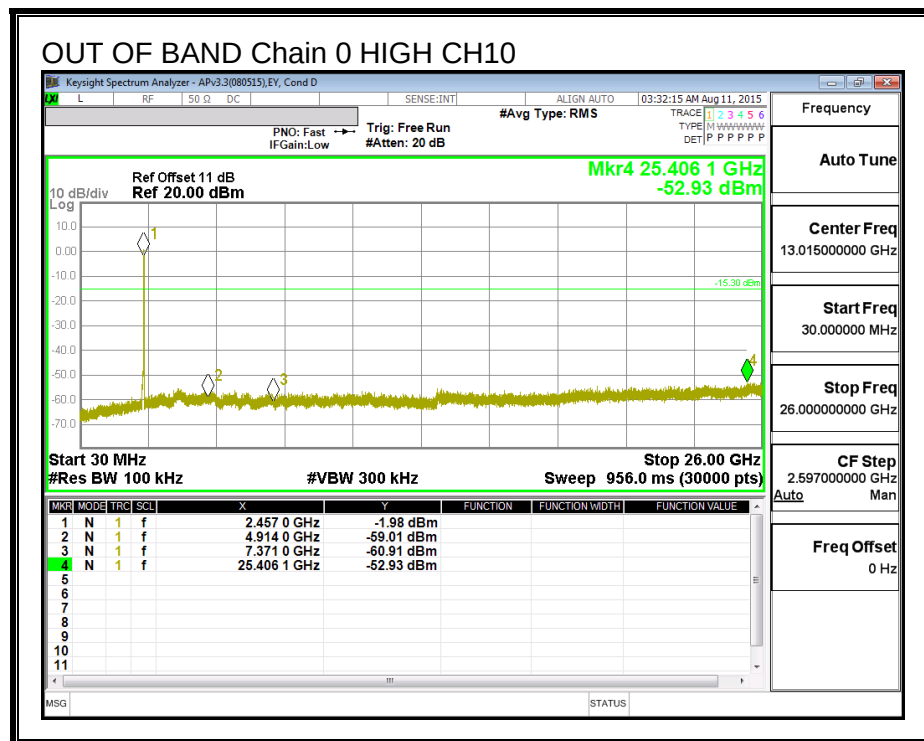
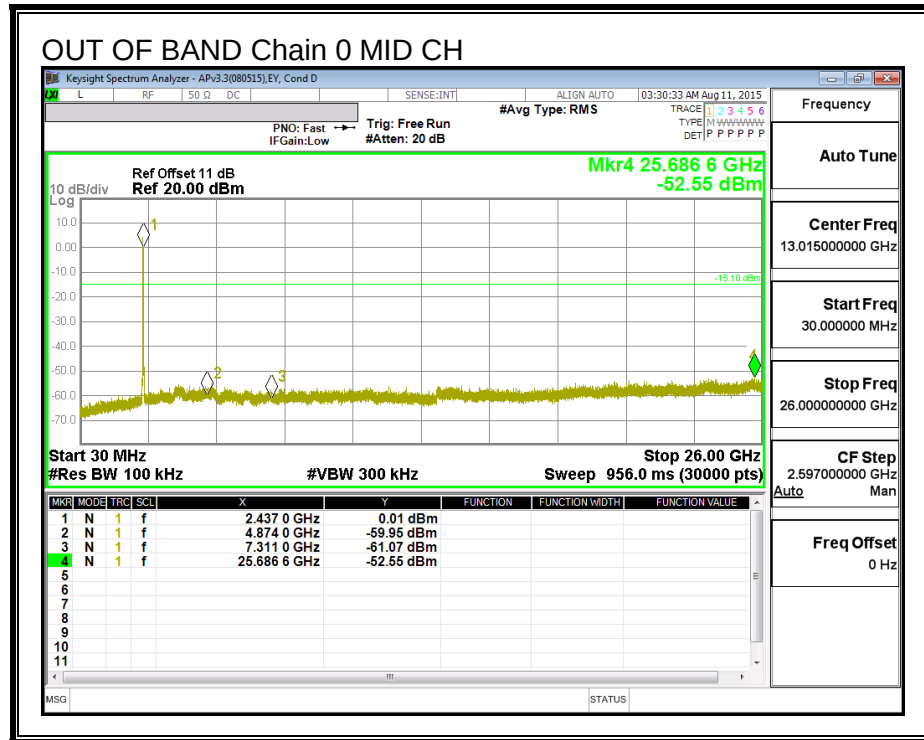
HIGH CHANNEL BANDEDGE, Chain 0

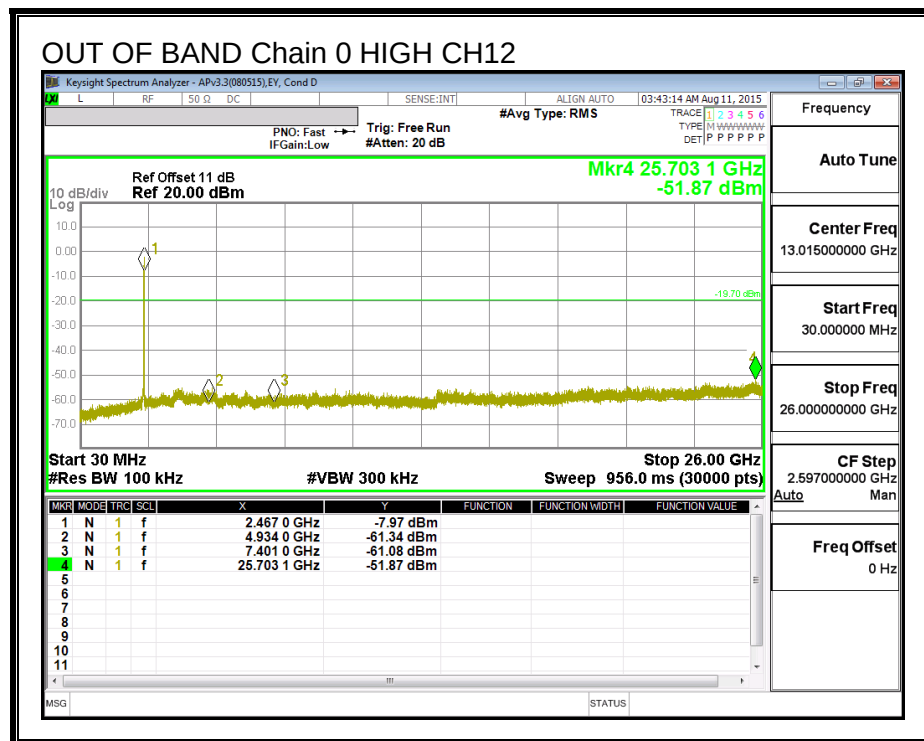
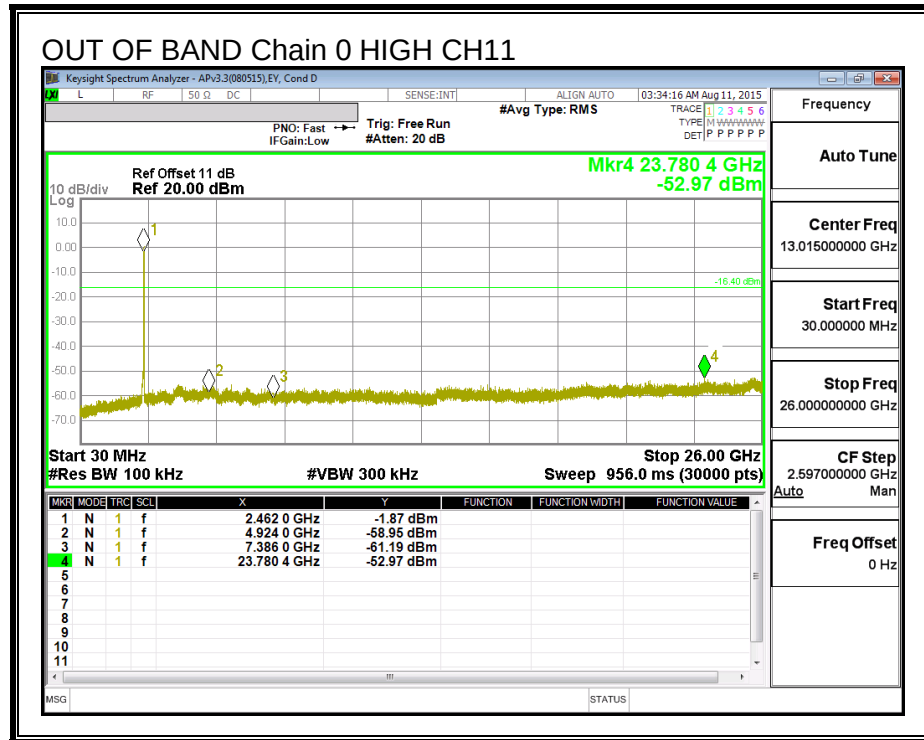


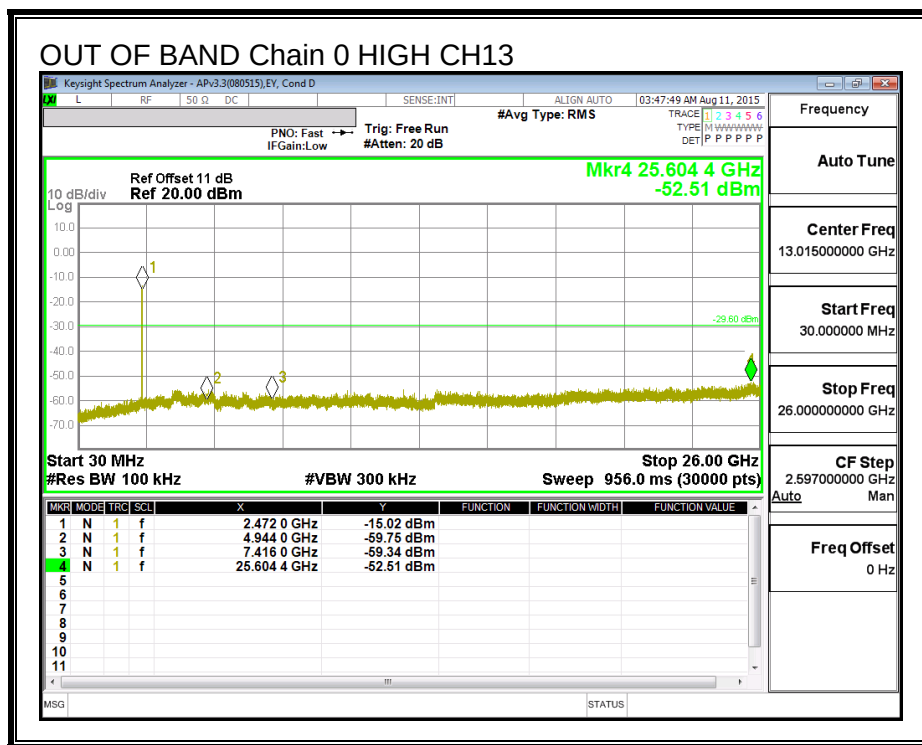


OUT-OF-BAND EMISSIONS, Chain 0

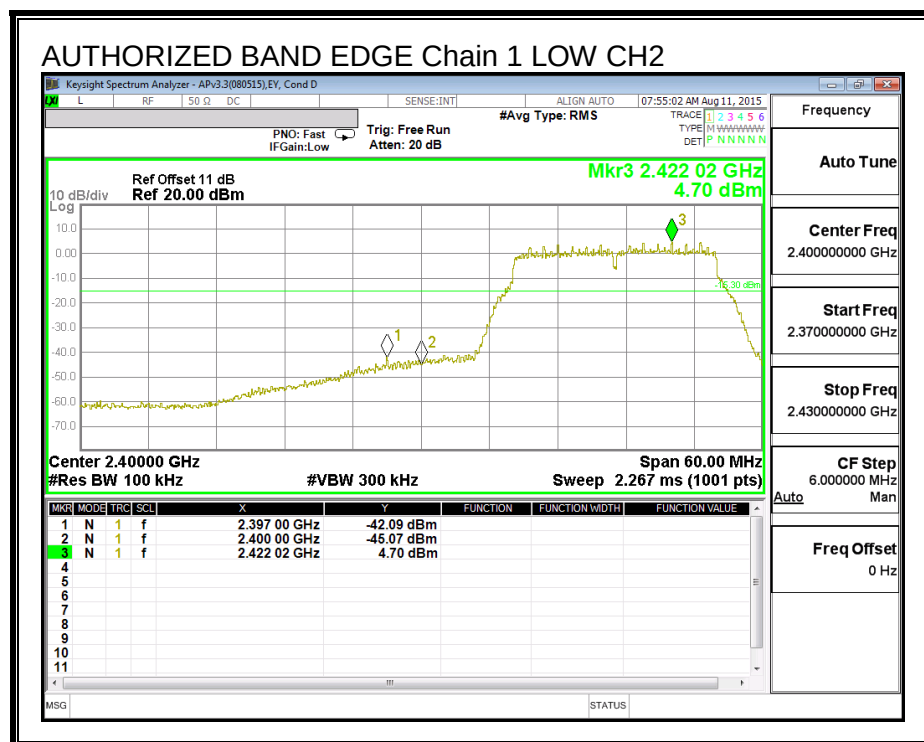
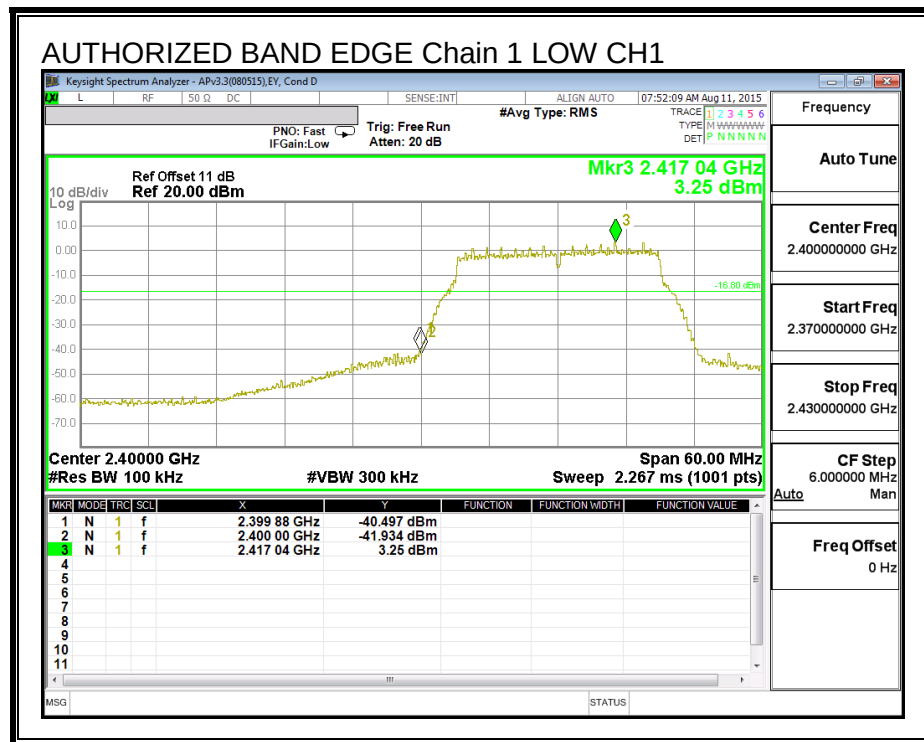




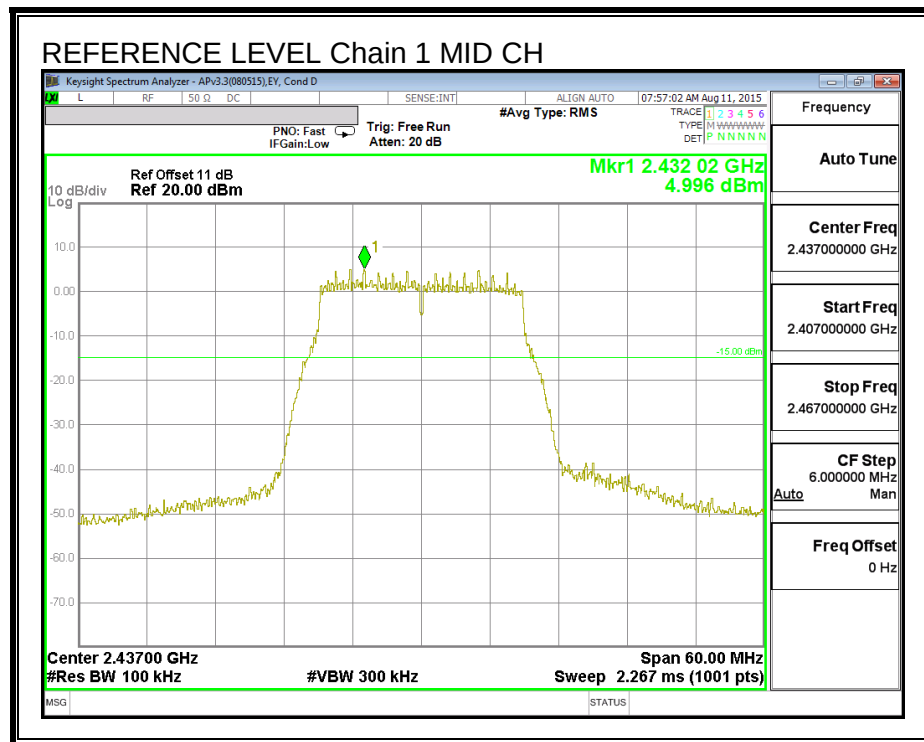




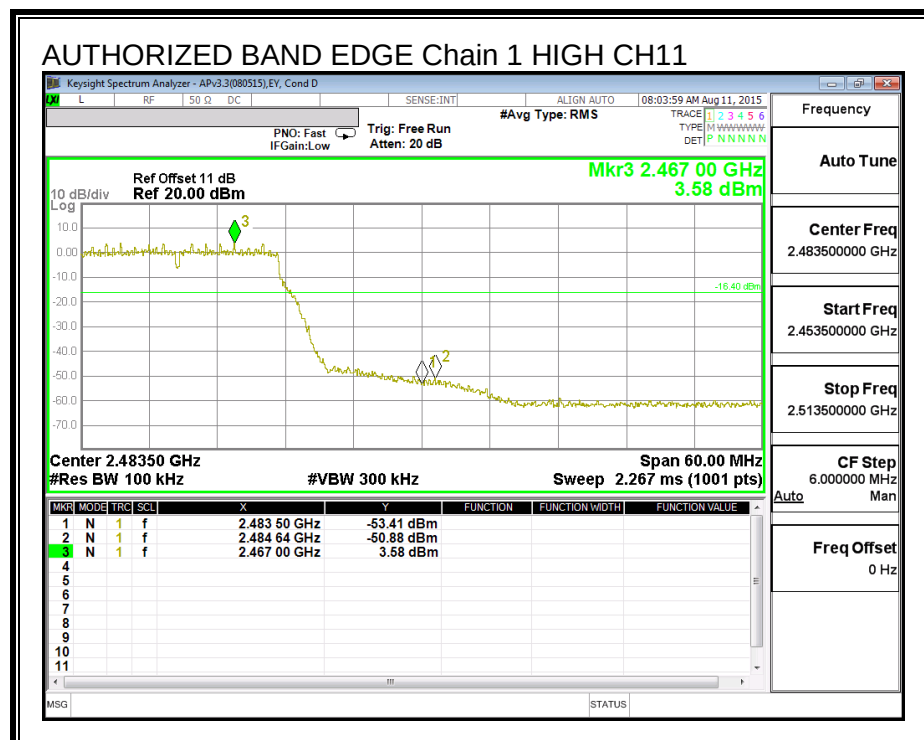
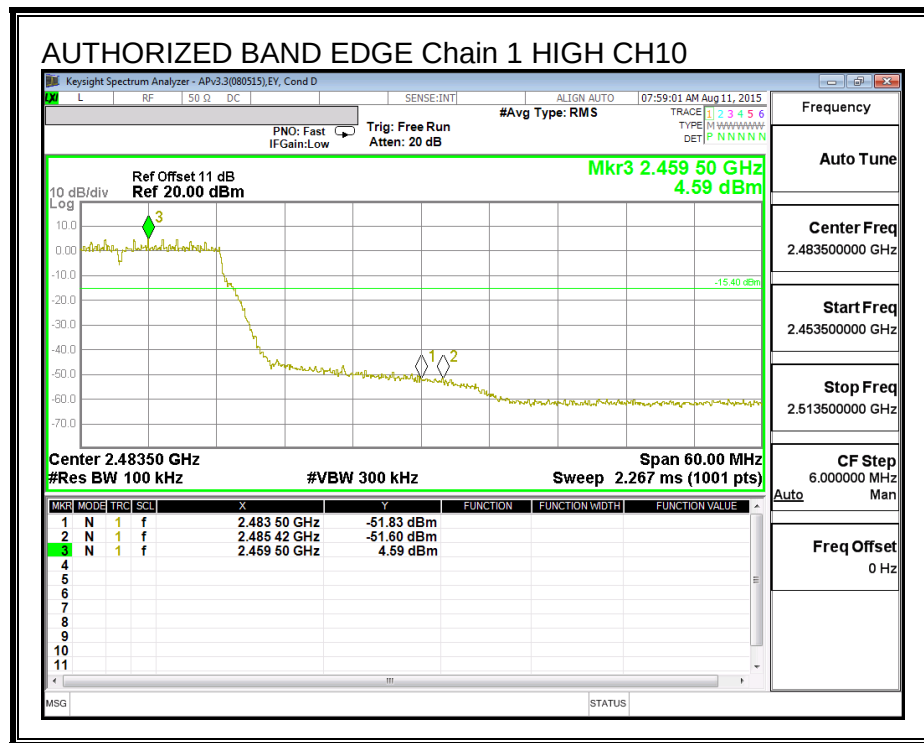
LOW CHANNEL BANDEDGE, Chain 1

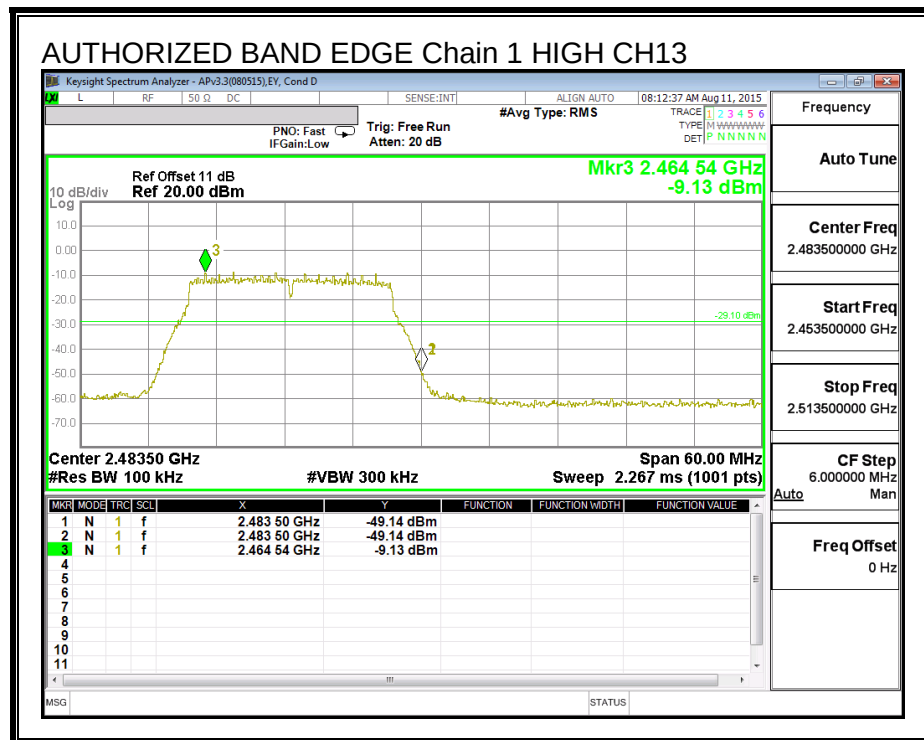
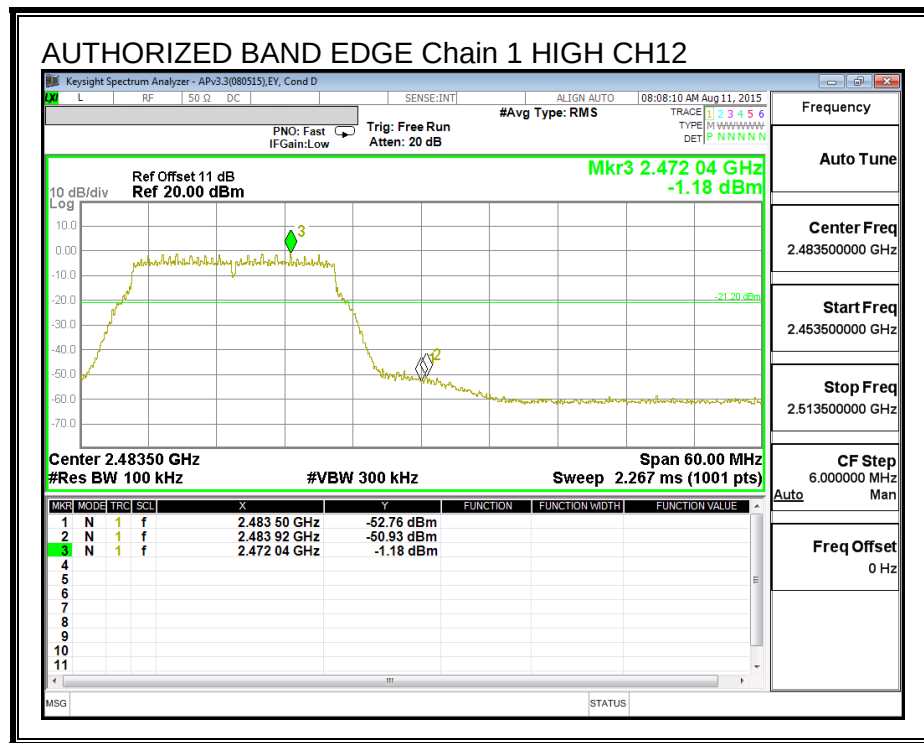


IN-BAND REFERENCE LEVEL, Chain 1

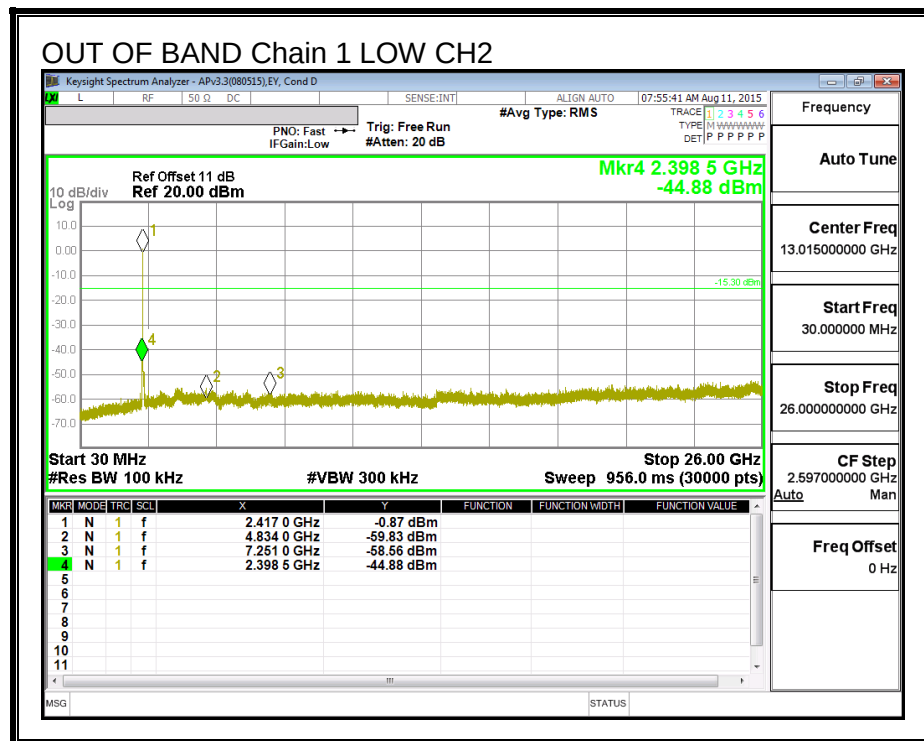
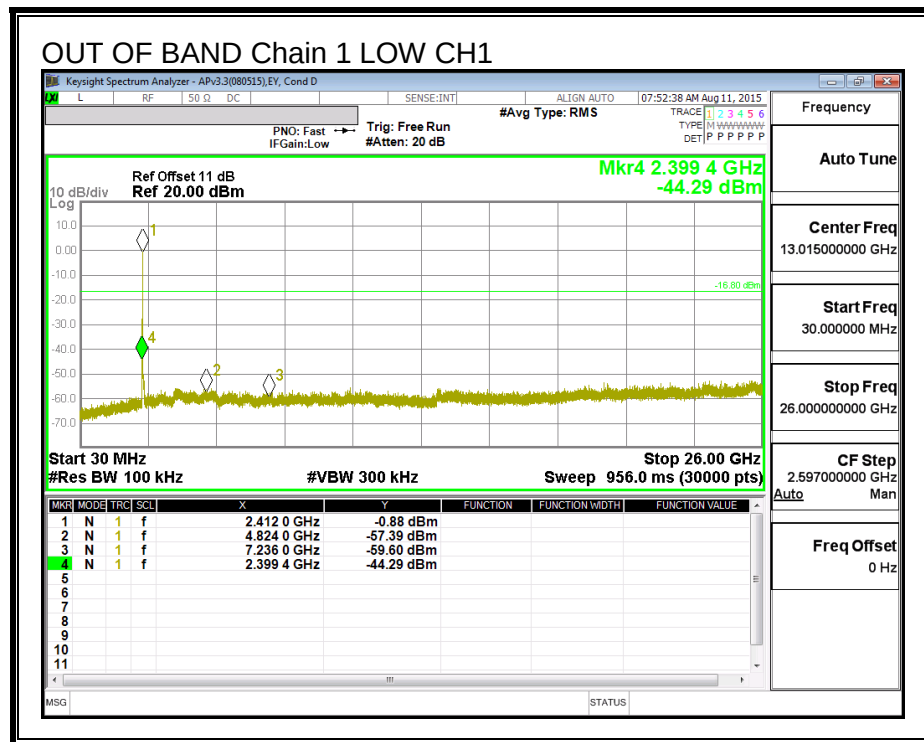


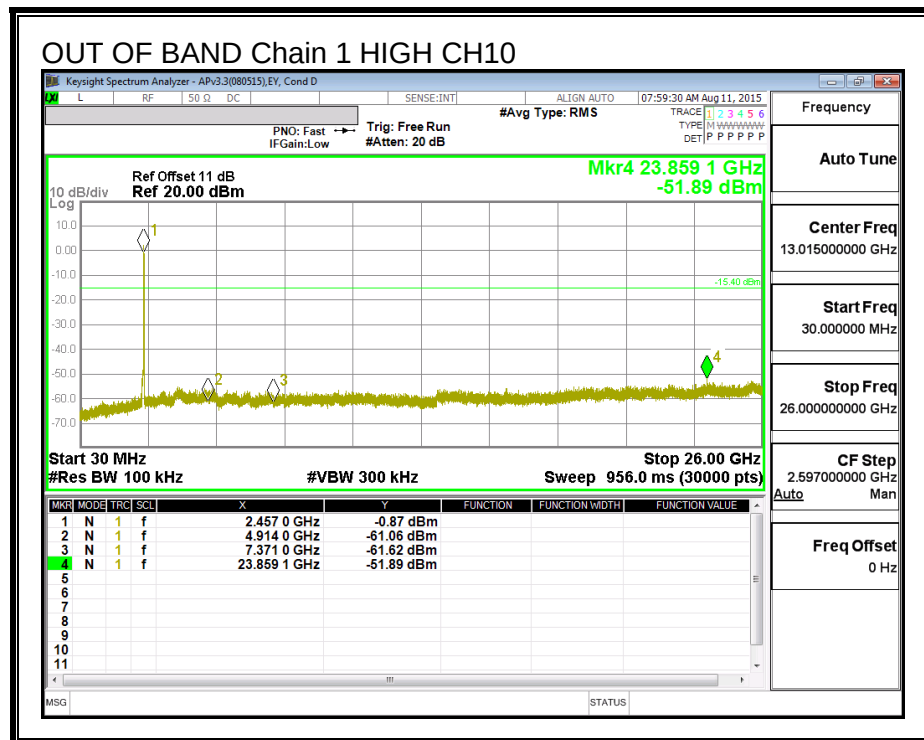
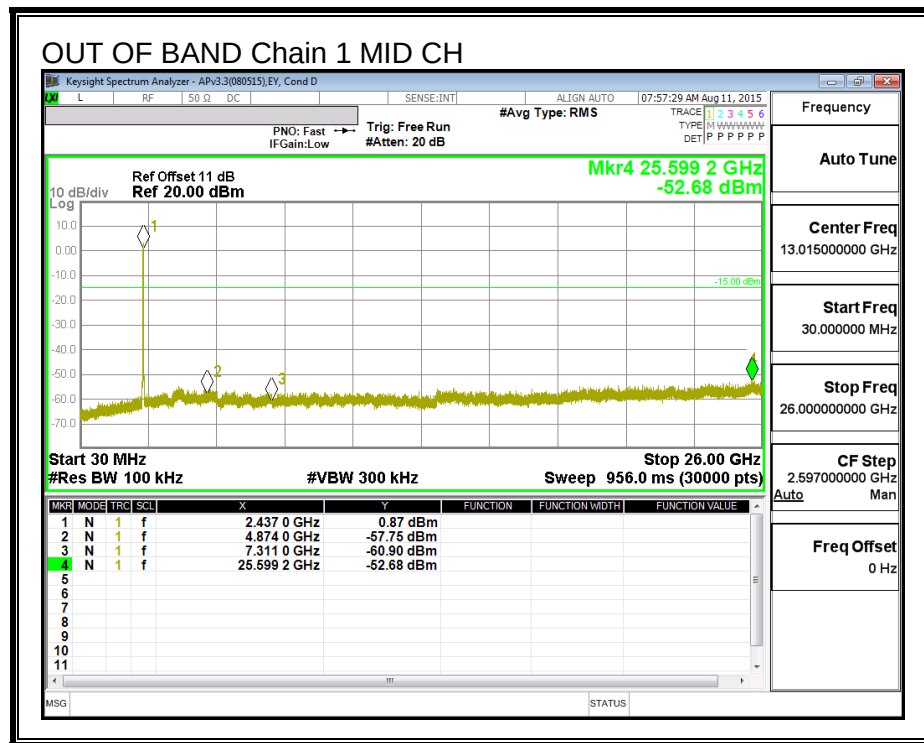
HIGH CHANNEL BANDEDGE, Chain 1

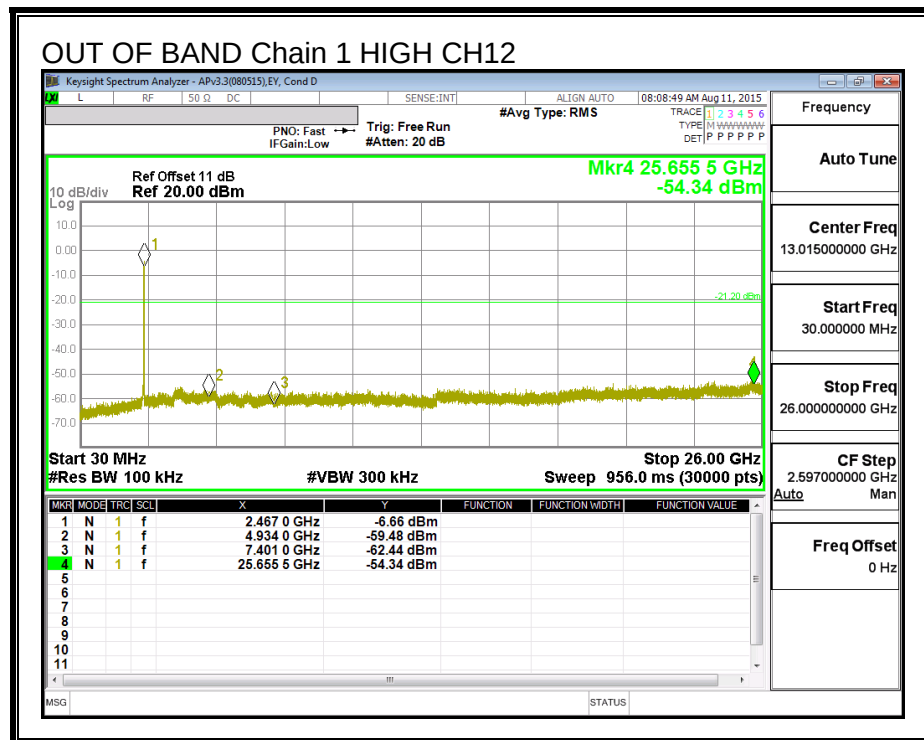
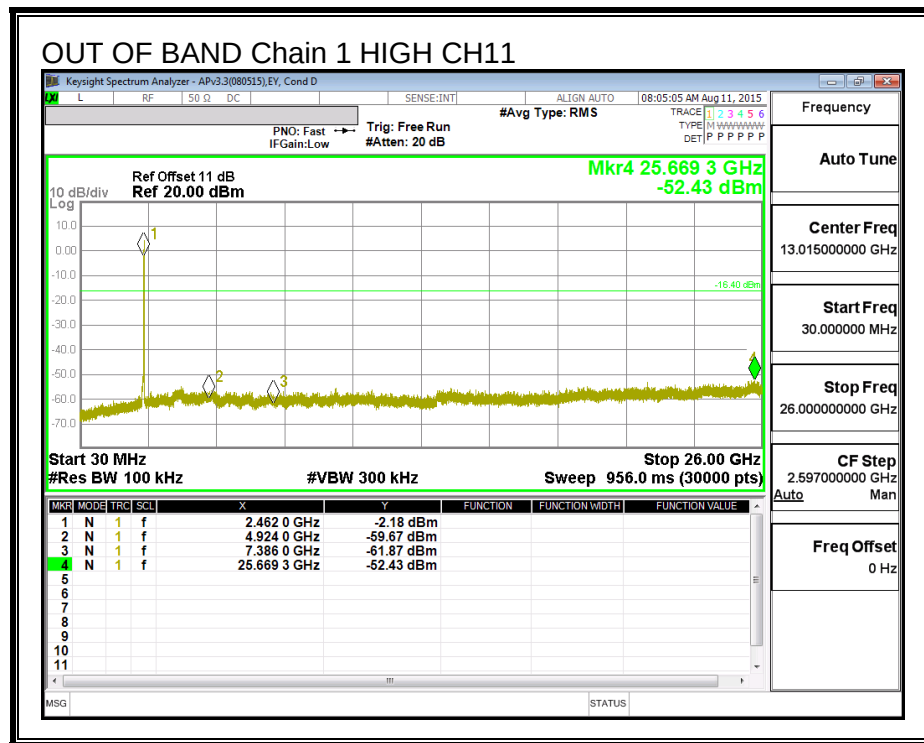


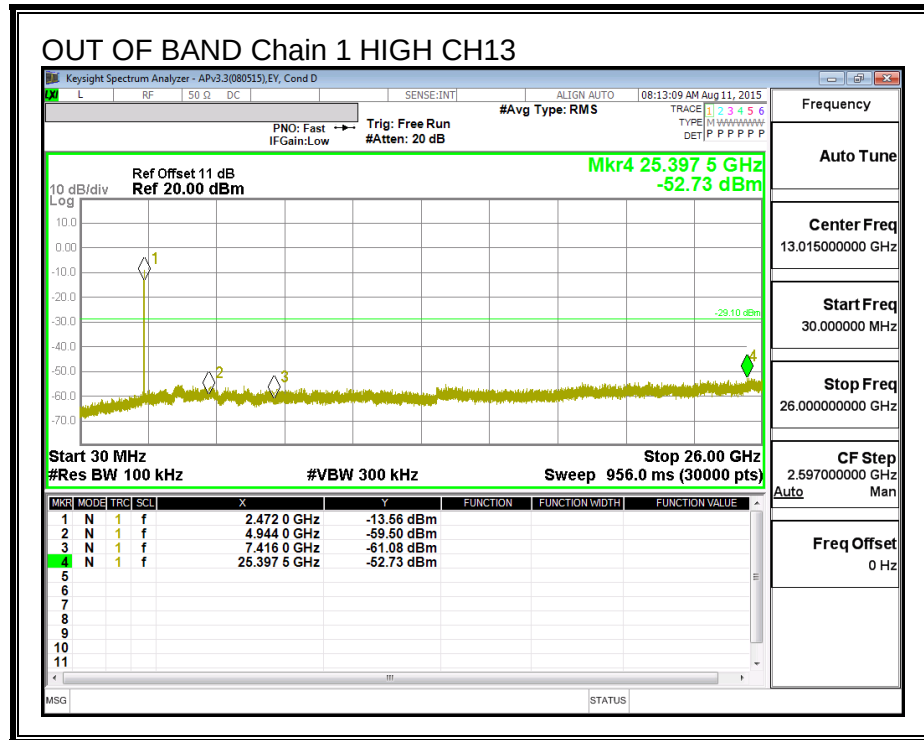


OUT-OF-BAND EMISSIONS, Chain 1









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 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.

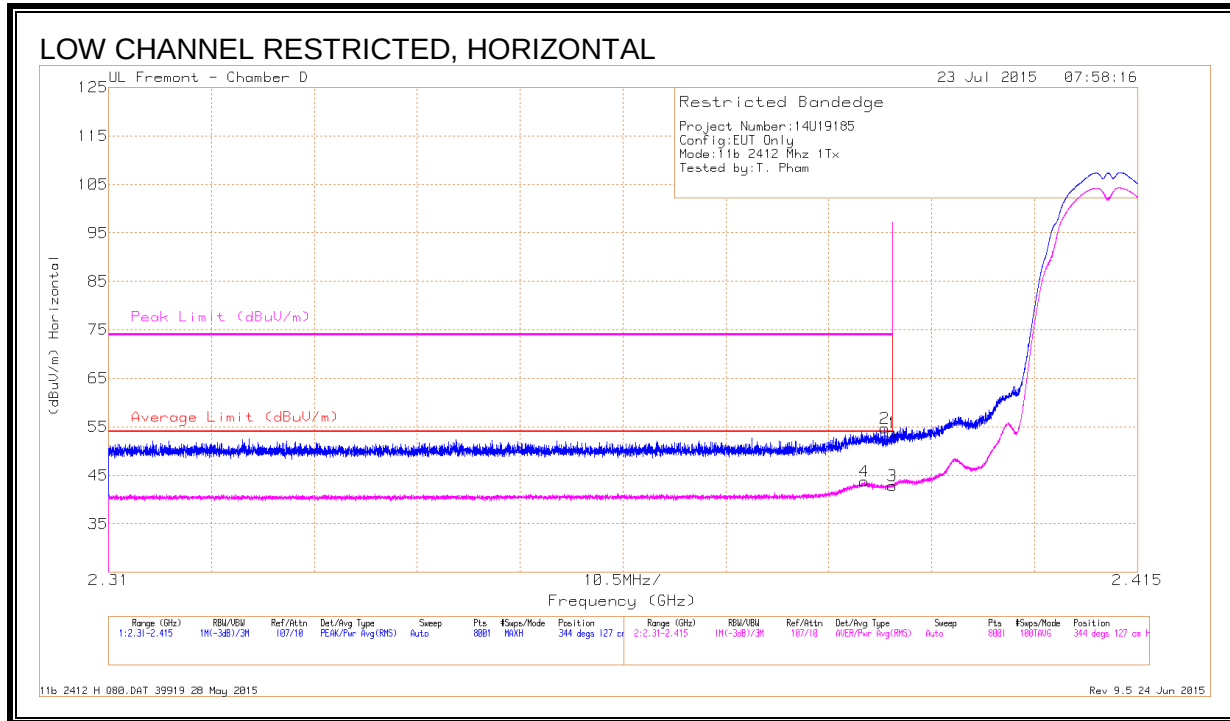
For 2.4 GHz band, the spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

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 BANDEDGE (LOW CHANNEL, CH 1)



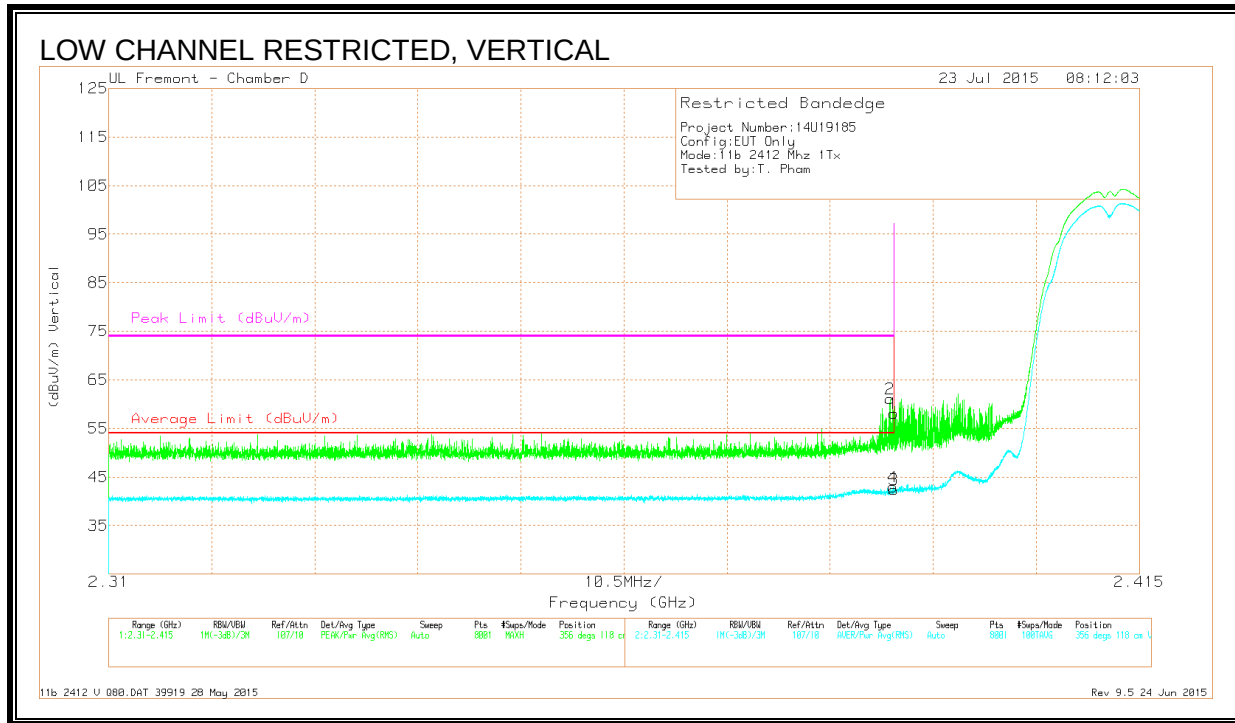
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (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
4	* 2.387	32.45	RMS	32.1	-20.8	43.75	54	-10.25	-	-	344	127	H
2	* 2.389	43.33	Pk	32.1	-20.7	54.73	-	-	74	-19.27	344	127	H
1	* 2.39	42.38	Pk	32.1	-20.7	53.78	-	-	74	-20.22	344	127	H
3	* 2.39	31.47	RMS	32.1	-20.7	42.87	54	-11.13	-	-	344	127	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection



DATA

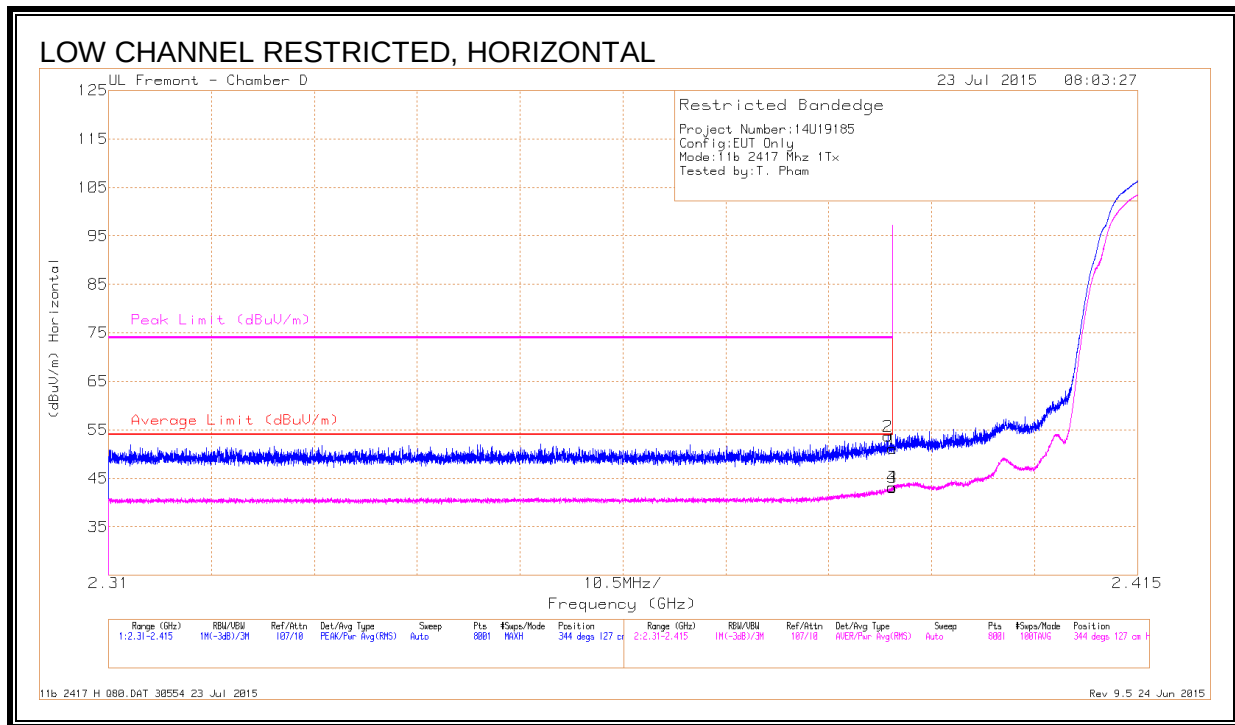
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	46.69	Pk	32.1	-20.7	58.09	-	-	74	-15.91	356	118	V
2	* 2.39	49.67	Pk	32.1	-20.7	61.07	-	-	74	-12.93	356	118	V
3	* 2.39	31	RMS	32.1	-20.7	42.4	54	-11.6	-	-	356	118	V
4	* 2.39	31.54	RMS	32.1	-20.7	42.94	54	-11.06	-	-	356	118	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection

RESTRICTED BANDEGE (LOW CHANNEL, CH 2)



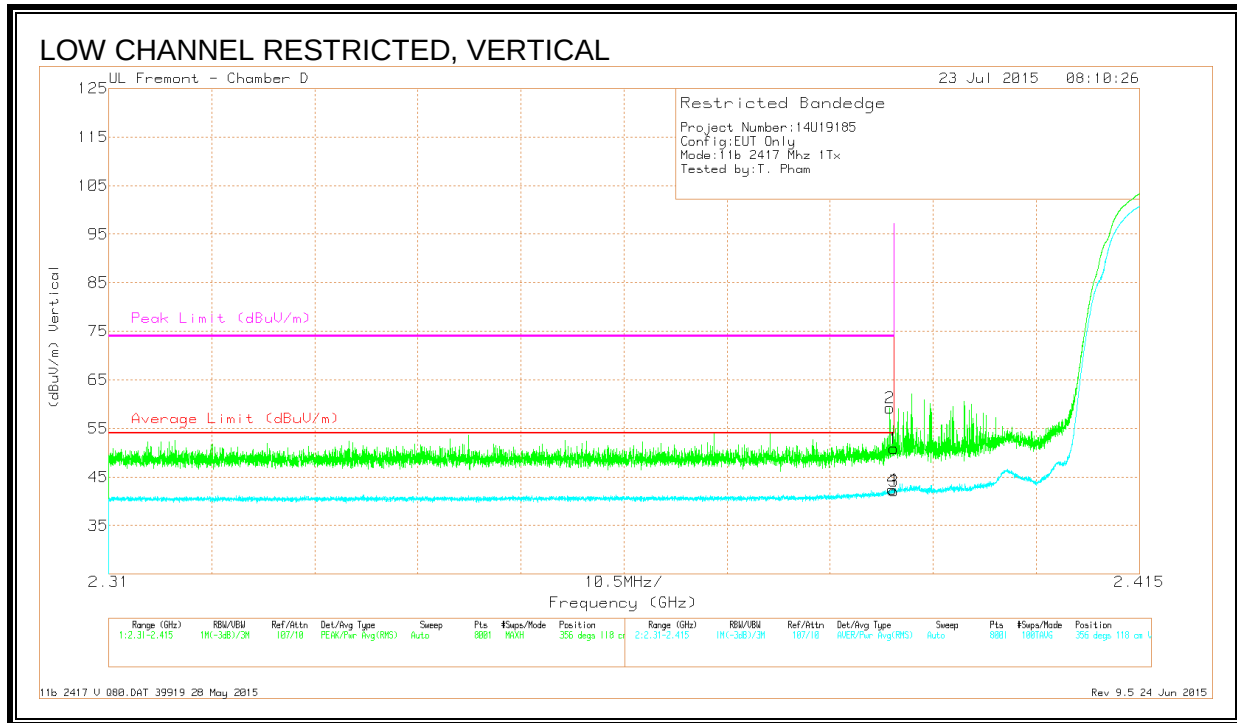
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (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	* 2.39	39.71	Pk	32.1	-20.7	51.11	-	-	74	-22.89	344	127	H
2	* 2.39	42.3	Pk	32.1	-20.7	53.7	-	-	74	-20.3	344	127	H
3	* 2.39	31.71	RMS	32.1	-20.7	43.11	54	-10.89	-	-	344	127	H
4	* 2.39	31.77	RMS	32.1	-20.7	43.17	54	-10.83	-	-	344	127	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection



DATA

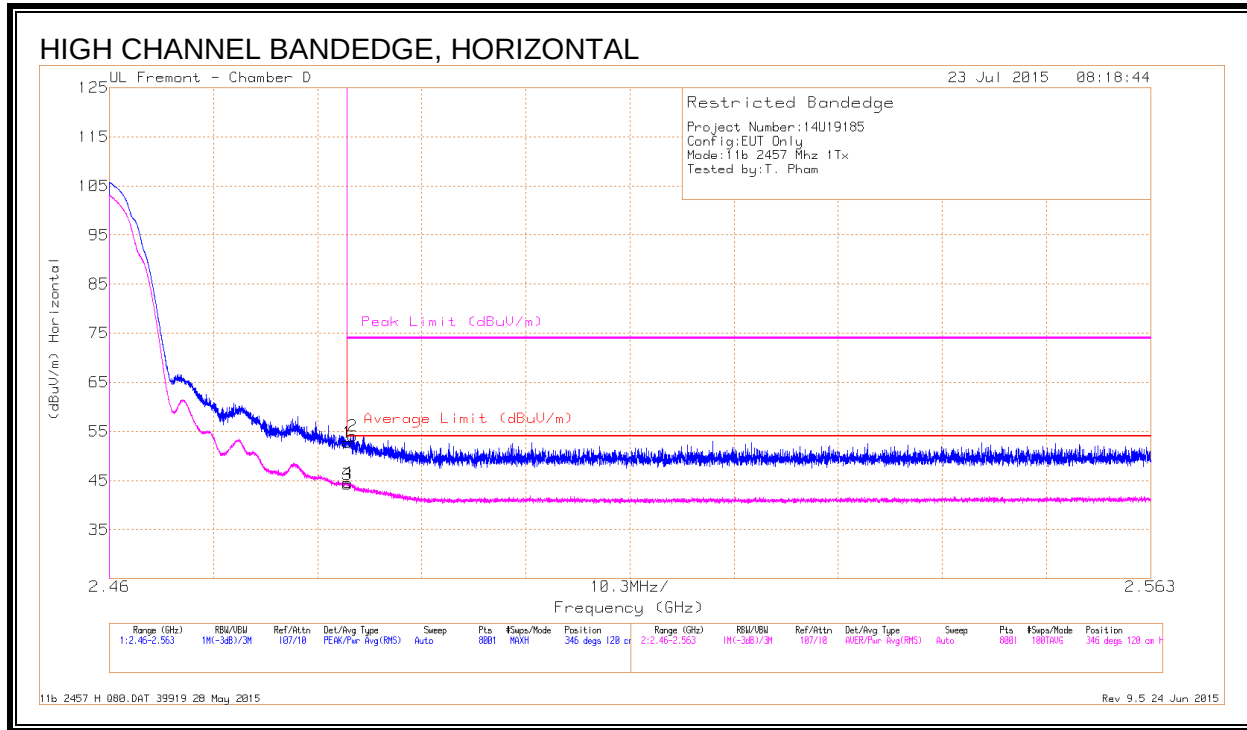
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.47	Pk	32.1	-20.7	50.87	-	-	74	-23.13	356	118	V
2	* 2.39	47.83	Pk	32.1	-20.7	59.23	-	-	74	-14.77	356	118	V
3	* 2.39	30.7	RMS	32.1	-20.7	42.1	54	-11.9	-	-	356	118	V
4	* 2.39	31.07	RMS	32.1	-20.7	42.47	54	-11.53	-	-	356	118	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 10)



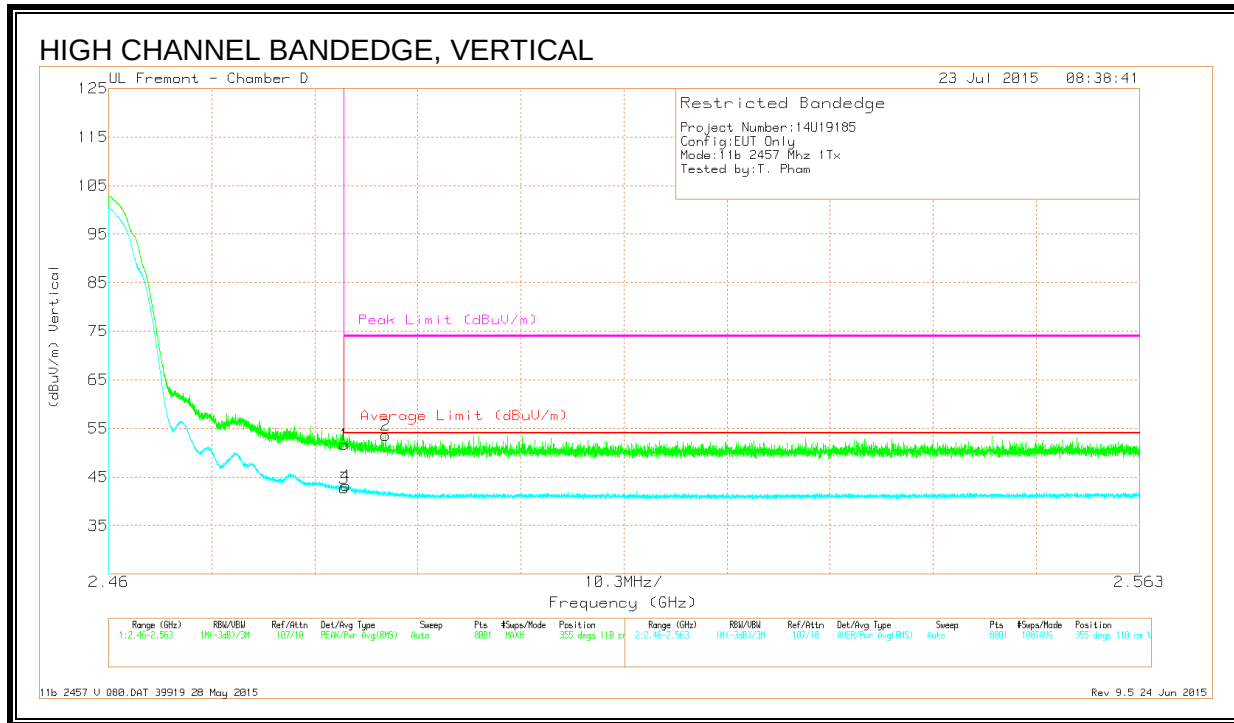
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ 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
1	* 2.484	41.35	Pk	32.2	-20.8	52.75	-	-	74	-21.25	346	120	H
2	* 2.484	42.66	Pk	32.2	-20.8	54.06	-	-	74	-19.94	346	120	H
3	* 2.484	32.83	RMS	32.2	-20.8	44.23	54	-9.77	-	-	346	120	H
4	* 2.484	33.17	RMS	32.2	-20.8	44.57	54	-9.43	-	-	346	120	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection



DATA

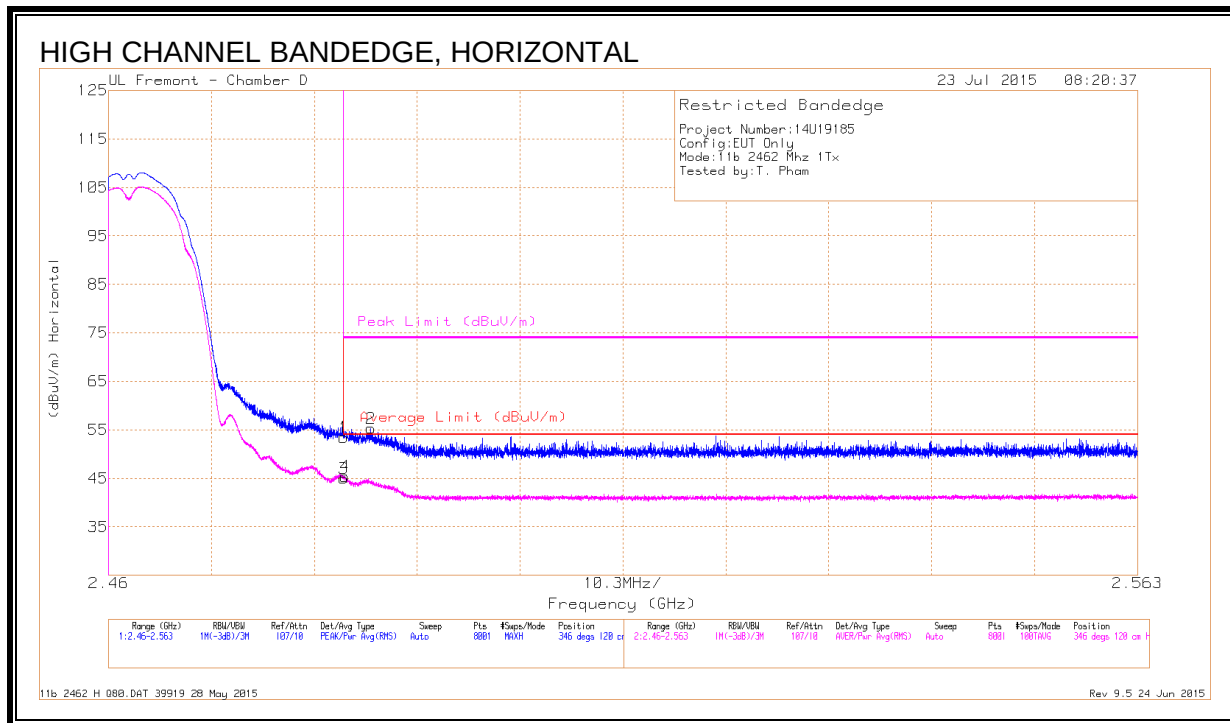
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.34	Pk	32.2	-20.8	51.74	-	-	74	-22.26	355	110	V
3	* 2.484	31.31	RMS	32.2	-20.8	42.71	54	-11.29	-	-	355	110	V
4	* 2.484	31.8	RMS	32.2	-20.8	43.2	54	-10.8	-	-	355	110	V
2	* 2.488	42.21	Pk	32.2	-20.8	53.61	-	-	74	-20.39	355	110	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 11)



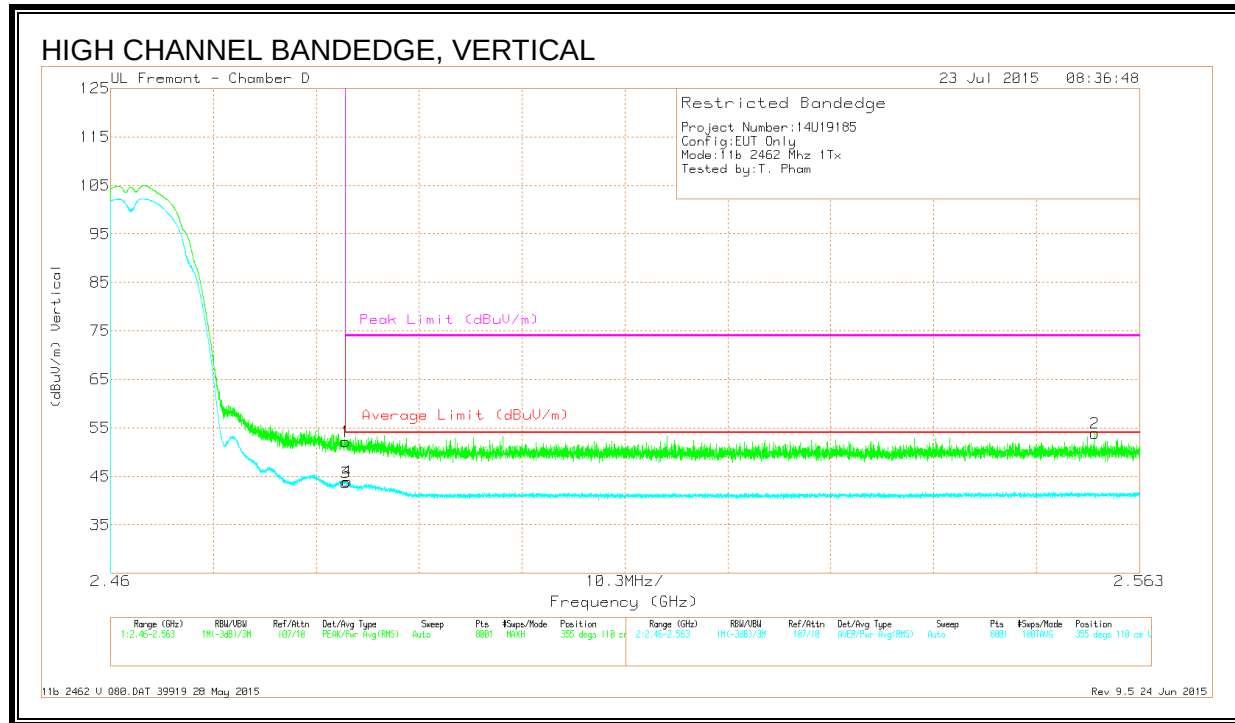
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ 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
1	* 2.484	42.05	Pk	32.2	-20.8	53.45	-	-	74	-20.55	346	120	H
3	* 2.484	33.6	RMS	32.2	-20.8	45	54	-9	-	-	346	120	H
4	* 2.484	34	RMS	32.2	-20.8	45.4	54	-8.6	-	-	346	120	H
2	* 2.486	43.9	Pk	32.2	-20.8	55.3	-	-	74	-18.7	346	120	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection



DATA

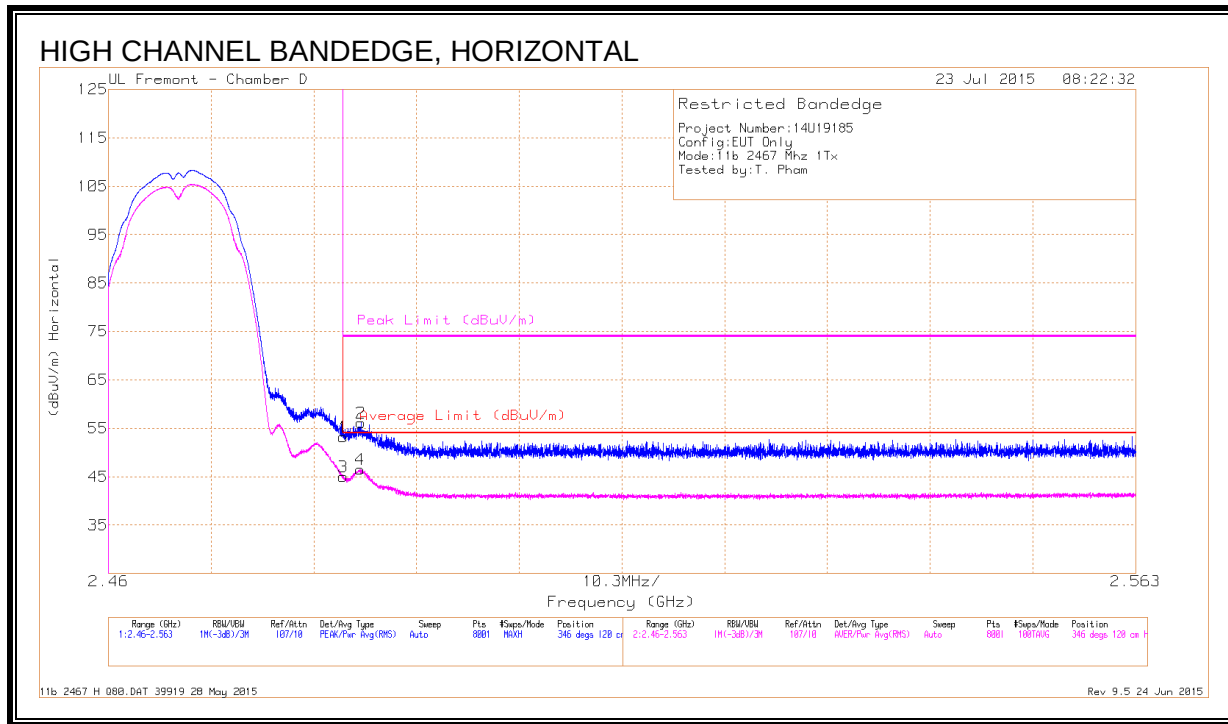
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.7	Pk	32.2	-20.8	52.1	-	-	74	-21.9	355	110	V
3	* 2.484	32.3	RMS	32.2	-20.8	43.7	54	-10.3	-	-	355	110	V
4	* 2.484	32.58	RMS	32.2	-20.8	43.98	54	-10.02	-	-	355	110	V
2	2.559	42.28	Pk	32.3	-20.7	53.88	-	-	74	-20.12	355	110	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 12)



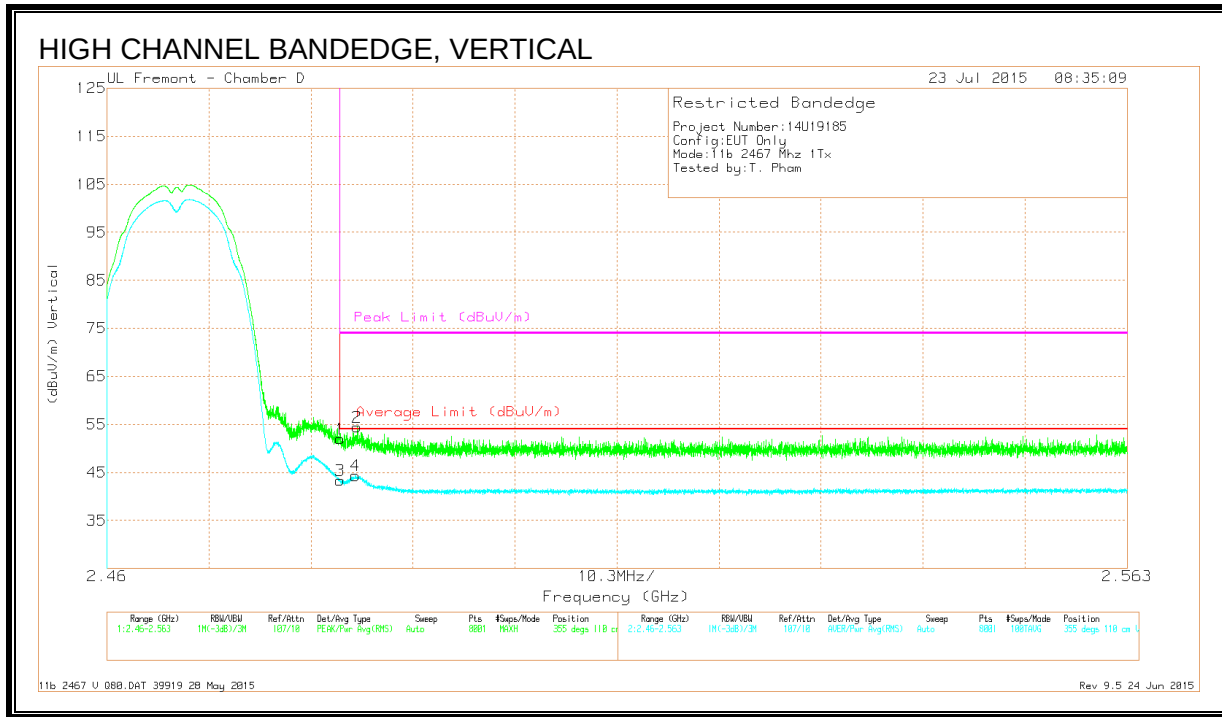
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (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	41.76	Pk	32.2	-20.8	53.16	-	-	74	-20.84	346	120	H
3	* 2.484	33.61	RMS	32.2	-20.8	45.01	54	-8.99	-	-	346	120	H
2	* 2.485	44.75	Pk	32.2	-20.8	56.15	-	-	74	-17.85	346	120	H
4	* 2.485	35.09	RMS	32.2	-20.8	46.49	54	-7.51	-	-	346	120	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection



DATA

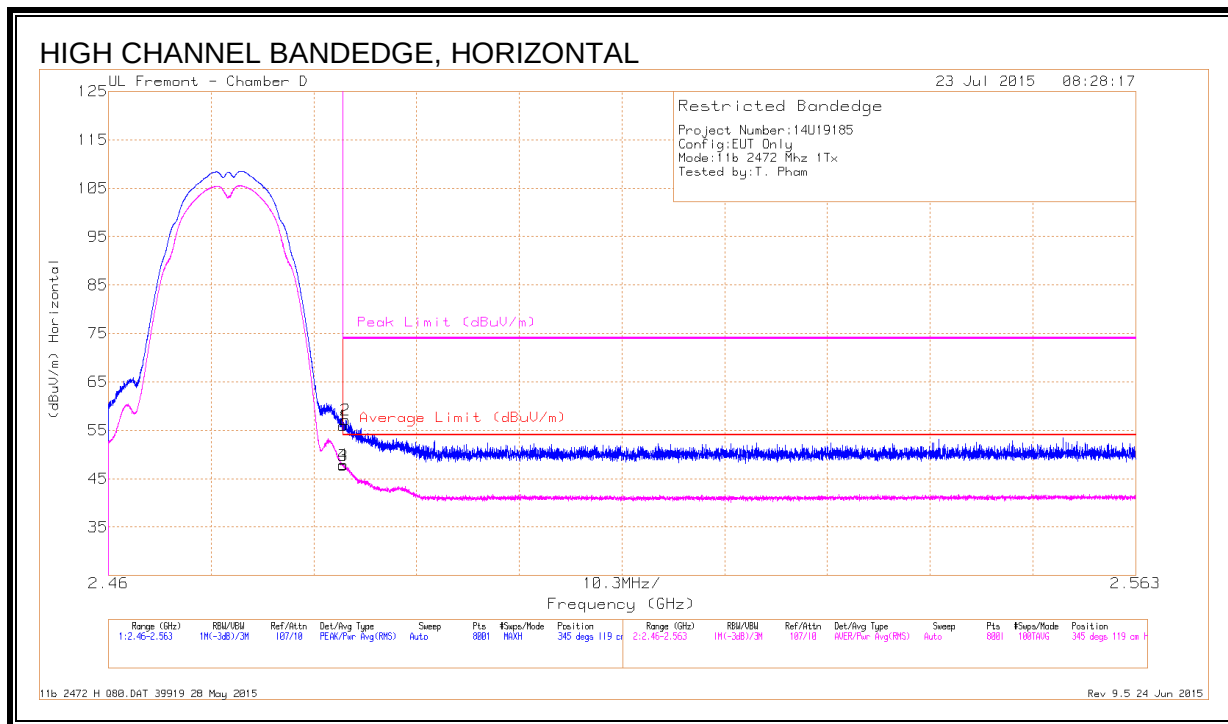
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.58	Pk	32.2	-20.8	51.98	-	-	74	-22.02	355	110	V
3	* 2.484	31.97	RMS	32.2	-20.8	43.37	54	-10.63	-	-	355	110	V
2	* 2.485	43.08	Pk	32.2	-20.8	54.48	-	-	74	-19.52	355	110	V
4	* 2.485	32.94	RMS	32.2	-20.8	44.34	54	-9.66	-	-	355	110	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 13)



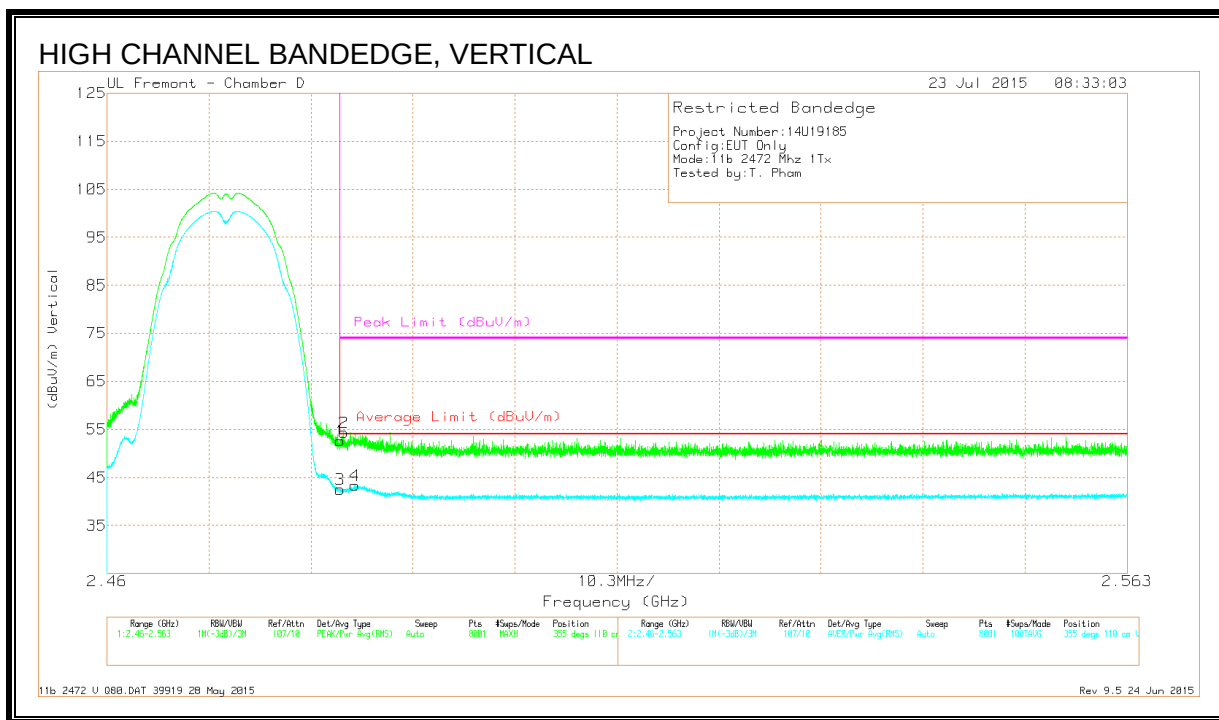
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (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	44.5	Pk	32.2	-20.8	55.9	-	-	74	-18.1	345	119	H
2	* 2.484	45.73	Pk	32.2	-20.8	57.13	-	-	74	-16.87	345	119	H
3	* 2.484	36.33	RMS	32.2	-20.8	47.73	54	-6.27	-	-	345	119	H
4	* 2.484	36.52	RMS	32.2	-20.8	47.92	54	-6.08	-	-	345	119	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection



DATA

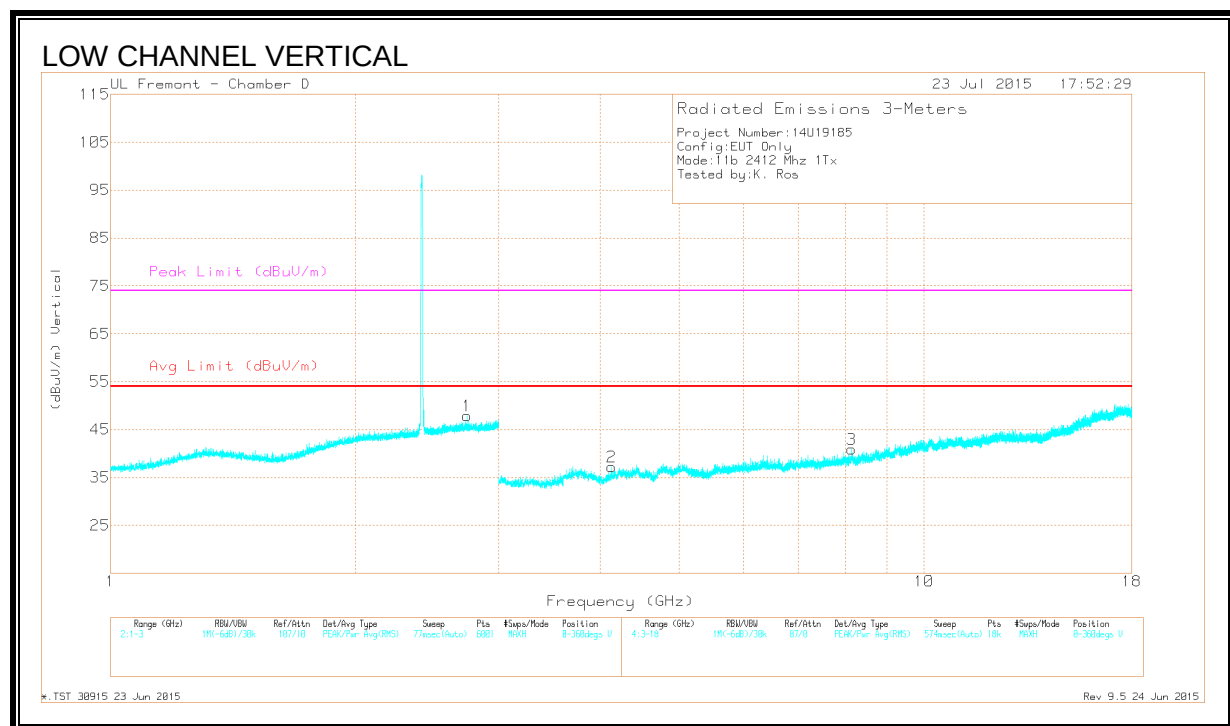
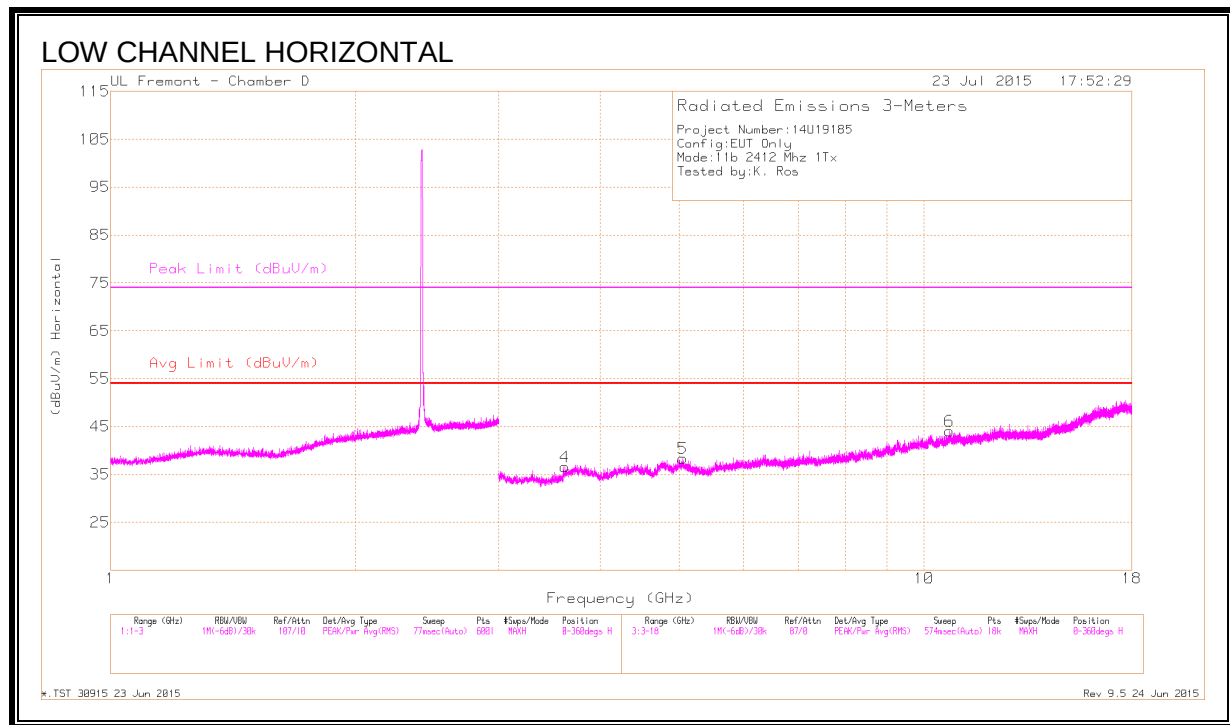
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.21	Pk	32.2	-20.8	52.61	-	-	74	-21.39	355	110	V
2	* 2.484	42.94	Pk	32.2	-20.8	54.34	-	-	74	-19.66	355	110	V
3	* 2.484	31.1	RMS	32.2	-20.8	42.5	54	-11.5	-	-	355	110	V
4	* 2.485	31.96	RMS	32.2	-20.8	43.36	54	-10.64	-	-	355	110	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL, CH 1



DATA

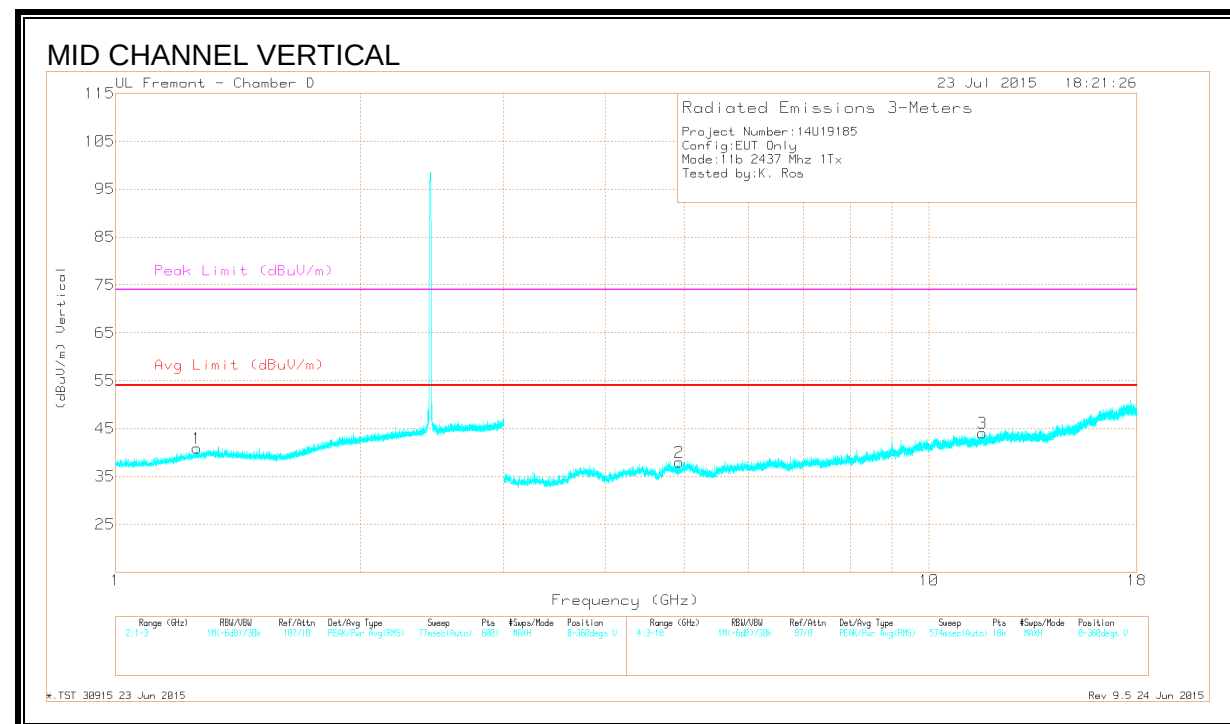
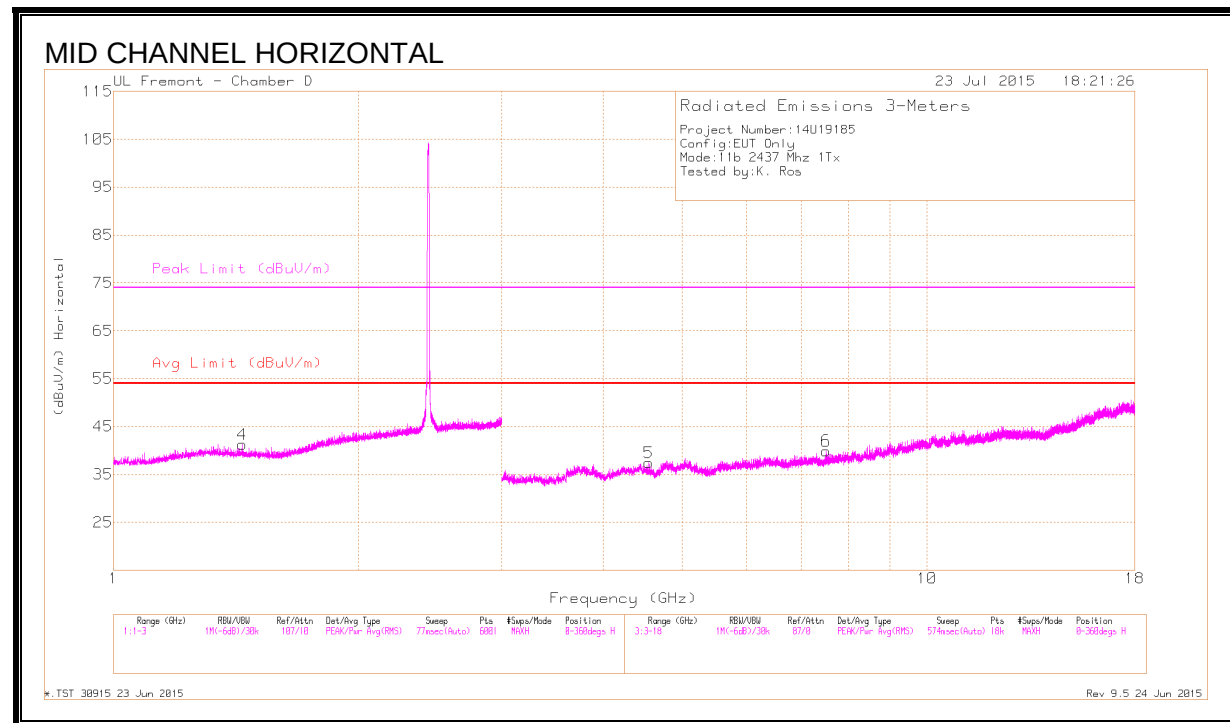
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.742	41.6	PK2	32.5	-20.4	53.7	-	-	74	-20.3	57	124	V
	* 2.743	30.33	MAv1	32.5	-20.4	42.43	54	-11.57	-	-	57	124	V
4	* 3.621	38.84	PK2	33.1	-28.6	43.34	-	-	74	-30.66	100	145	H
	* 3.618	27.48	MAv1	33.1	-28.6	31.98	54	-22.02	-	-	100	145	H
5	* 5.048	37.8	PK2	34.3	-26.7	45.4	-	-	74	-28.6	295	127	H
	* 5.05	26.6	MAv1	34.3	-26.7	34.2	54	-19.8	-	-	295	127	H
6	* 10.747	33.55	PK2	37.9	-20.6	50.85	-	-	74	-23.15	283	163	H
	* 10.746	22.16	MAv1	37.9	-20.6	39.46	54	-14.54	-	-	283	163	H
2	* 4.129	37.94	PK2	33.4	-28.1	43.24	-	-	74	-30.76	226	142	V
	* 4.131	26.82	MAv1	33.4	-28.1	32.12	54	-21.88	-	-	226	142	V
3	* 8.151	35.13	PK2	35.6	-22.9	47.83	-	-	74	-26.17	196	172	V
	* 8.149	24.05	MAv1	35.6	-22.9	36.75	54	-17.25	-	-	196	172	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL, CH 6



DATA

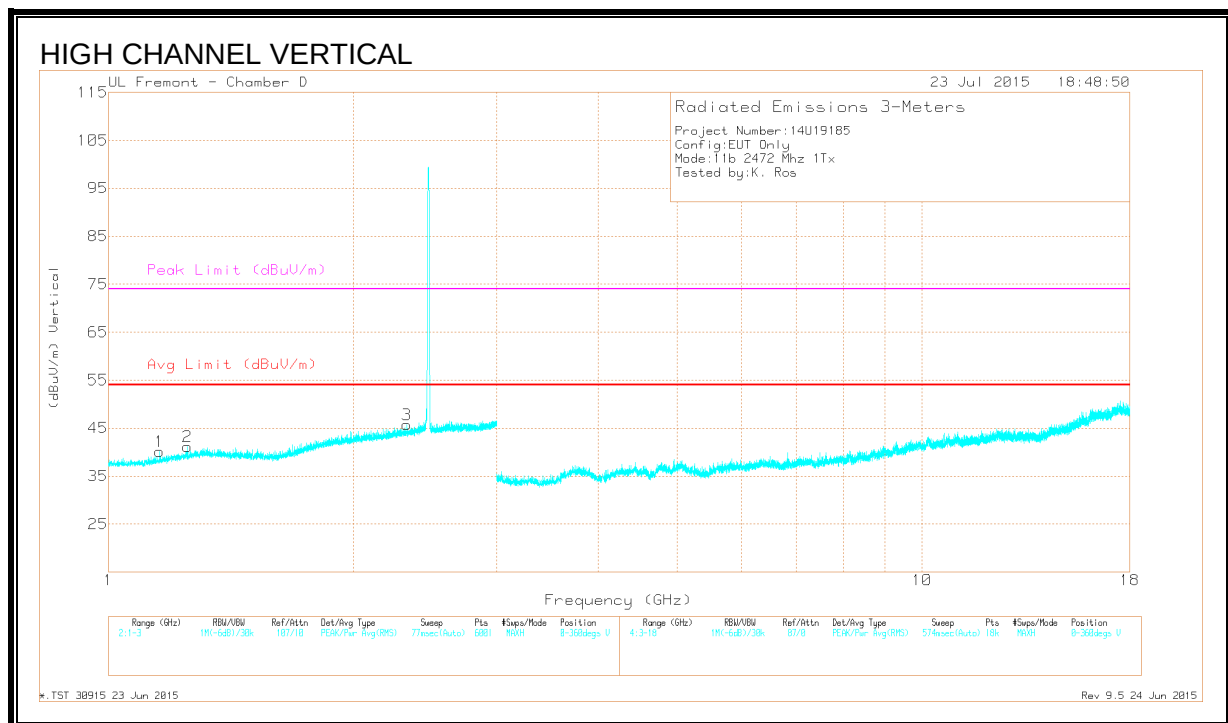
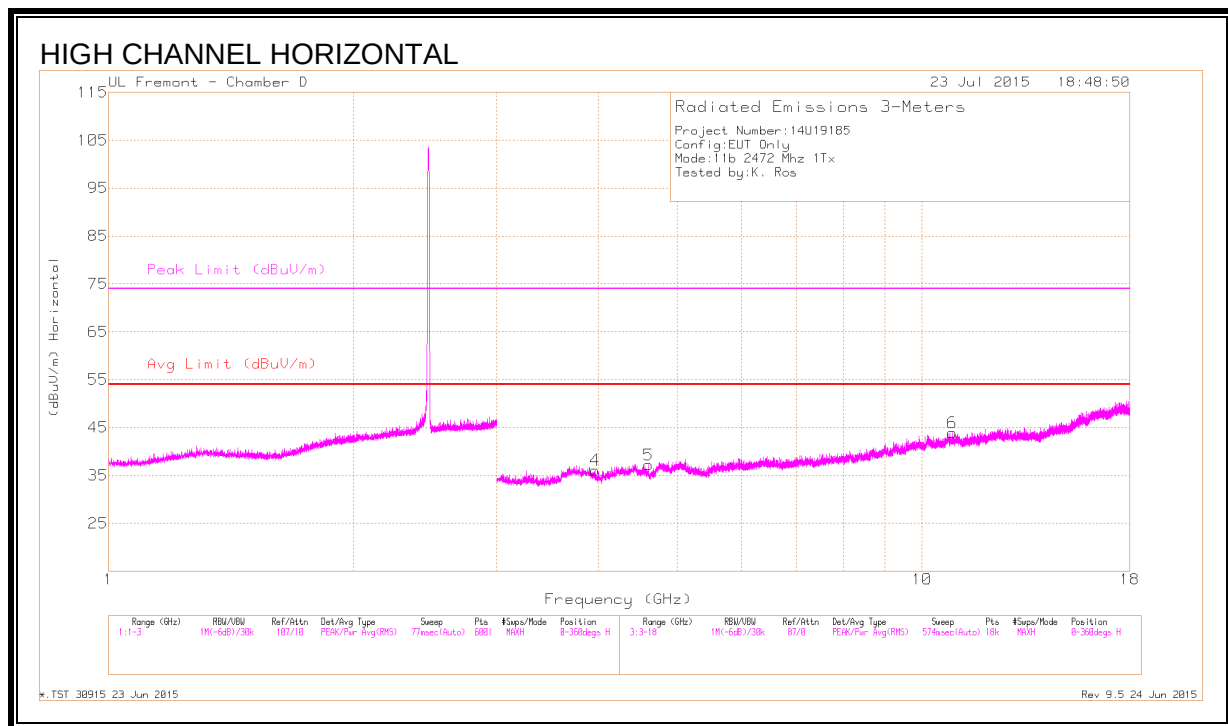
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.441	42.11	PK2	28.5	-22	48.61	-	-	74	-25.39	323	147	H
	* 1.44	30.33	MAv1	28.5	-22	36.83	54	-17.17	-	-	323	147	H
1	* 1.26	41.82	PK2	28.6	-22.3	48.12	-	-	74	-25.88	254	188	V
	* 1.261	30.43	MAv1	28.6	-22.3	36.73	54	-17.27	-	-	254	188	V
5	* 4.544	38.08	PK2	34.1	-28	44.18	-	-	74	-29.82	278	163	H
	* 4.546	27.25	MAv1	34.1	-28	33.35	54	-20.65	-	-	278	163	H
6	* 7.512	36.45	PK2	35.5	-25	46.95	-	-	74	-27.05	159	190	H
	* 7.513	24.74	MAv1	35.5	-25	35.24	54	-18.76	-	-	159	190	H
2	* 4.93	38.06	PK2	34.1	-28.1	44.06	-	-	74	-29.94	91	215	V
	* 4.929	26.96	MAv1	34.1	-28.1	32.96	54	-21.04	-	-	91	215	V
3	* 11.628	33.86	PK2	38.1	-20.8	51.16	-	-	74	-22.84	126	229	V
	* 11.626	22.84	MAv1	38.1	-20.8	40.14	54	-13.86	-	-	126	229	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL, CH 13



DATA

Markers	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	* 1.156	42.15	PK2	27.7	-22.5	47.35	-	-	74	-26.65	295	182	V
	* 1.157	30.05	MAv1	27.7	-22.5	35.25	54	-18.75	-	-	295	182	V
2	* 1.251	42.04	PK2	28.6	-22.3	48.34	-	-	74	-25.66	255	164	V
	* 1.251	30.48	MAv1	28.6	-22.3	36.78	54	-17.22	-	-	255	164	V
3	* 2.327	41.85	PK2	32	-21	52.85	-	-	74	-21.15	106	191	V
	* 2.324	30.3	MAv1	32	-21	41.3	54	-12.7	-	-	106	191	V
4	* 3.962	38.49	PK2	33.4	-28.5	43.39	-	-	74	-30.61	149	169	H
	* 3.96	27.42	MAv1	33.4	-28.4	32.42	54	-21.58	-	-	149	169	H
5	* 4.612	38.73	PK2	34.1	-28.4	44.43	-	-	74	-29.57	149	242	H
	* 4.612	27.29	MAv1	34.1	-28.4	32.99	54	-21.01	-	-	149	242	H
6	* 10.885	33.86	PK2	38	-21.3	50.56	-	-	74	-23.44	200	208	H
	* 10.884	23.06	MAv1	38	-21.2	39.86	54	-14.14	-	-	200	208	H

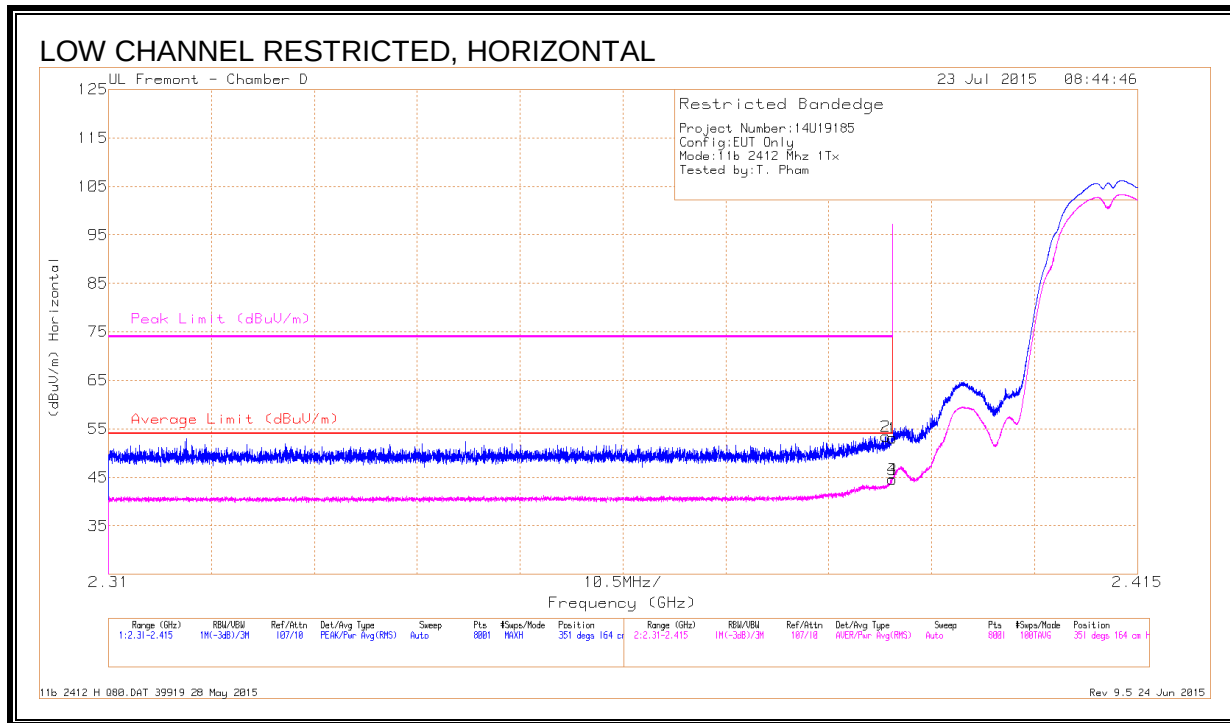
* - indicates frequency in CFR15.205/IC8.10 Restricted Band

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)



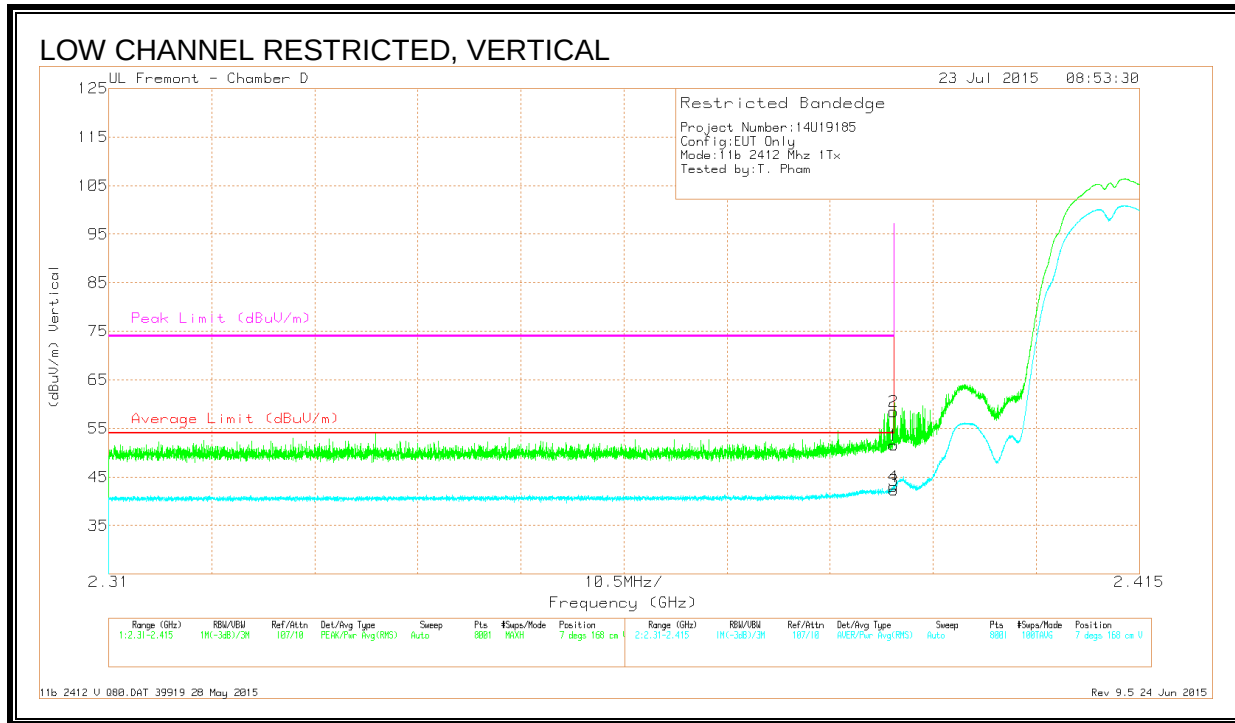
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (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	* 2.39	41.72	Pk	32.1	-20.7	53.12	-	-	74	-20.88	351	164	H
2	* 2.389	42.03	Pk	32.1	-20.7	53.43	-	-	74	-20.57	351	164	H
3	* 2.39	33.16	RMS	32.1	-20.7	44.56	54	-9.44	-	-	351	164	H
4	* 2.39	33.22	RMS	32.1	-20.7	44.62	54	-9.38	-	-	351	164	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection



DATA

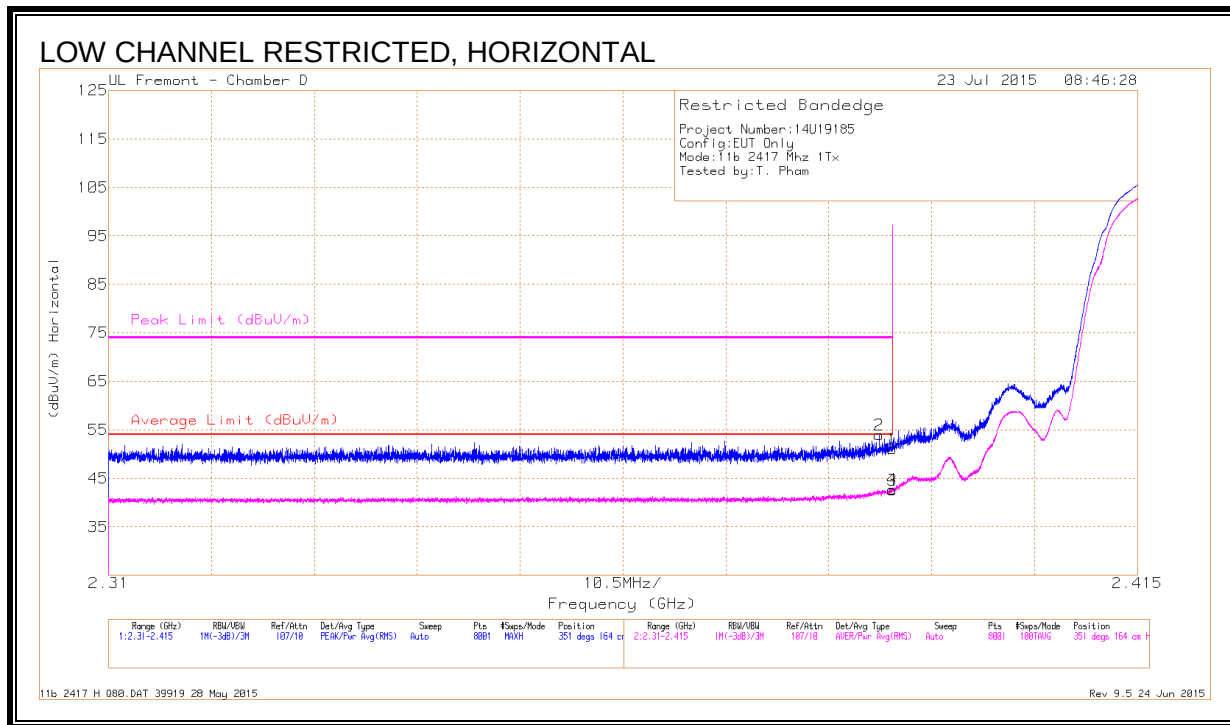
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.19	Pk	32.1	-20.7	51.59	-	-	74	-22.41	7	168	V
2	* 2.39	47.05	Pk	32.1	-20.7	58.45	-	-	74	-15.55	7	168	V
3	* 2.39	30.87	RMS	32.1	-20.7	42.27	54	-11.73	-	-	7	168	V
4	* 2.39	31.64	RMS	32.1	-20.7	43.04	54	-10.96	-	-	7	168	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection

RESTRICTED BANDEGE (LOW CHANNEL, CH 2)



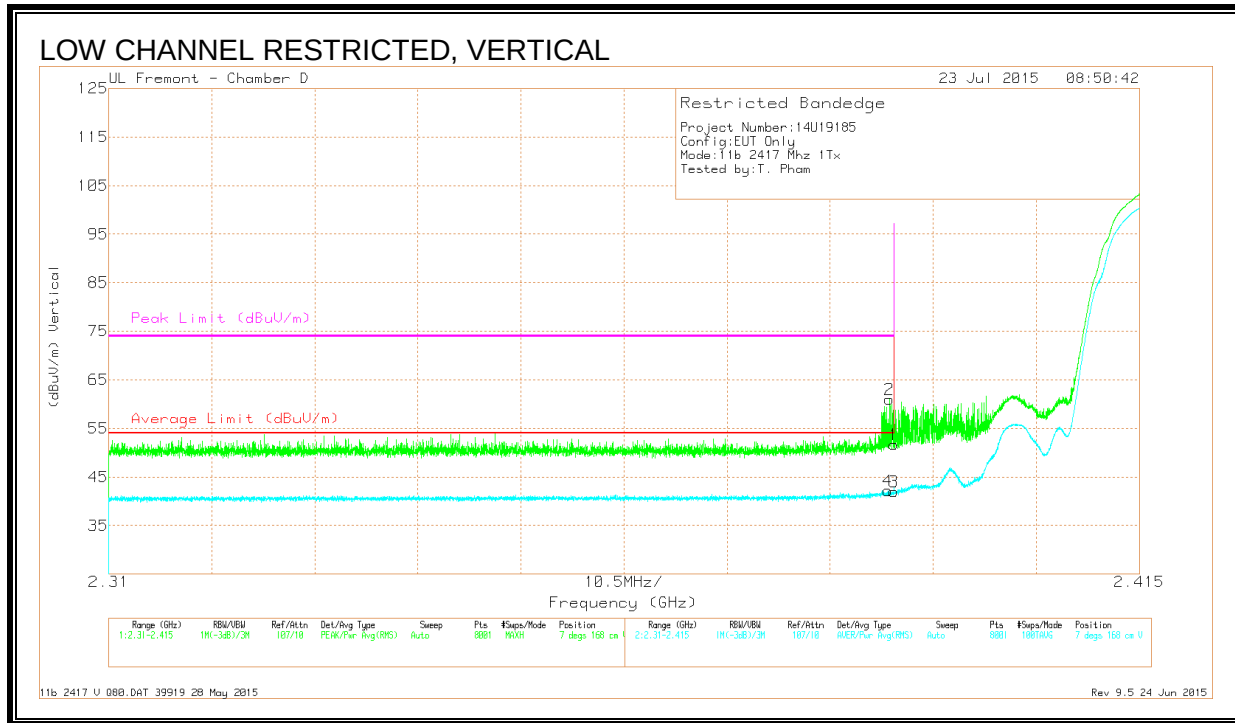
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ 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
1	* 2.39	39.7	Pk	32.1	-20.7	51.1	-	-	74	-22.9	351	164	H
2	* 2.389	42.54	Pk	32.1	-20.7	53.94	-	-	74	-20.06	351	164	H
3	* 2.39	31.19	RMS	32.1	-20.7	42.59	54	-11.41	-	-	351	164	H
4	* 2.39	31.31	RMS	32.1	-20.7	42.71	54	-11.29	-	-	351	164	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection



DATA

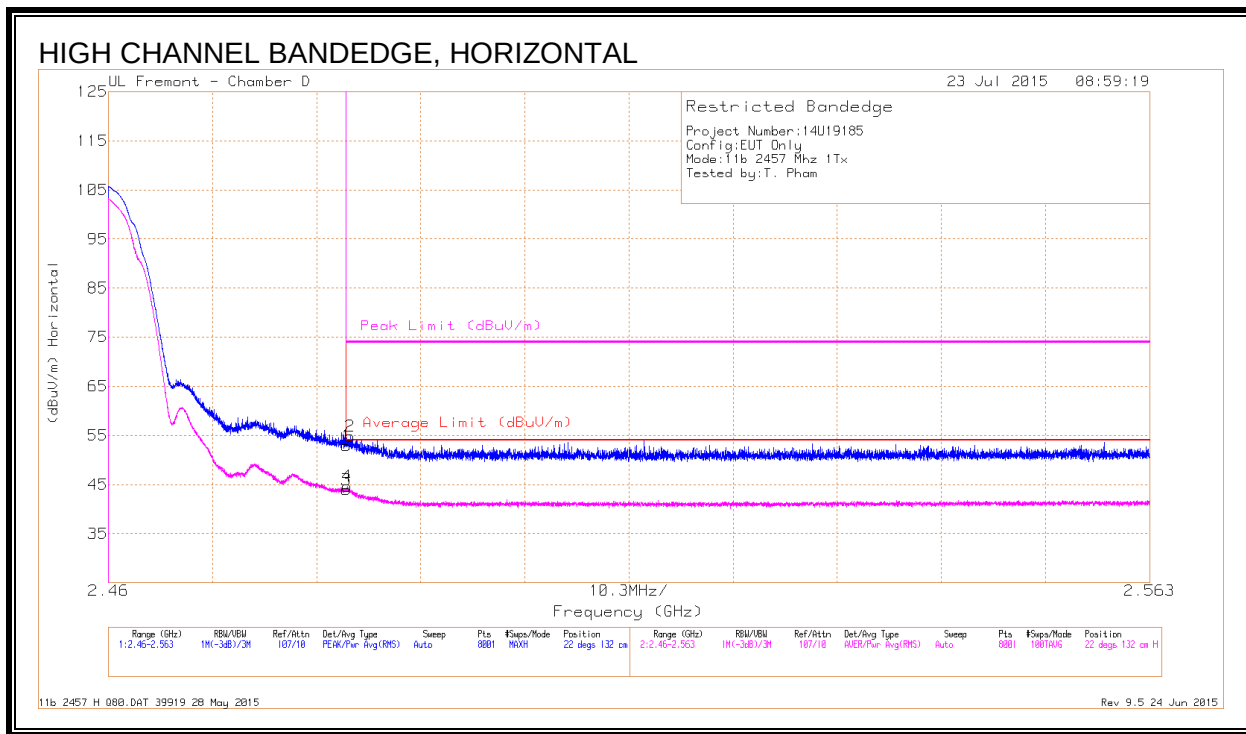
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.29	Pk	32.1	-20.7	51.69	-	-	74	-22.31	7	168	V
2	* 2.39	49.58	Pk	32.1	-20.7	60.98	-	-	74	-13.02	7	168	V
3	* 2.39	30.61	RMS	32.1	-20.7	42.01	54	-11.99	-	-	7	168	V
4	* 2.389	30.79	RMS	32.1	-20.7	42.19	54	-11.81	-	-	7	168	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 10)



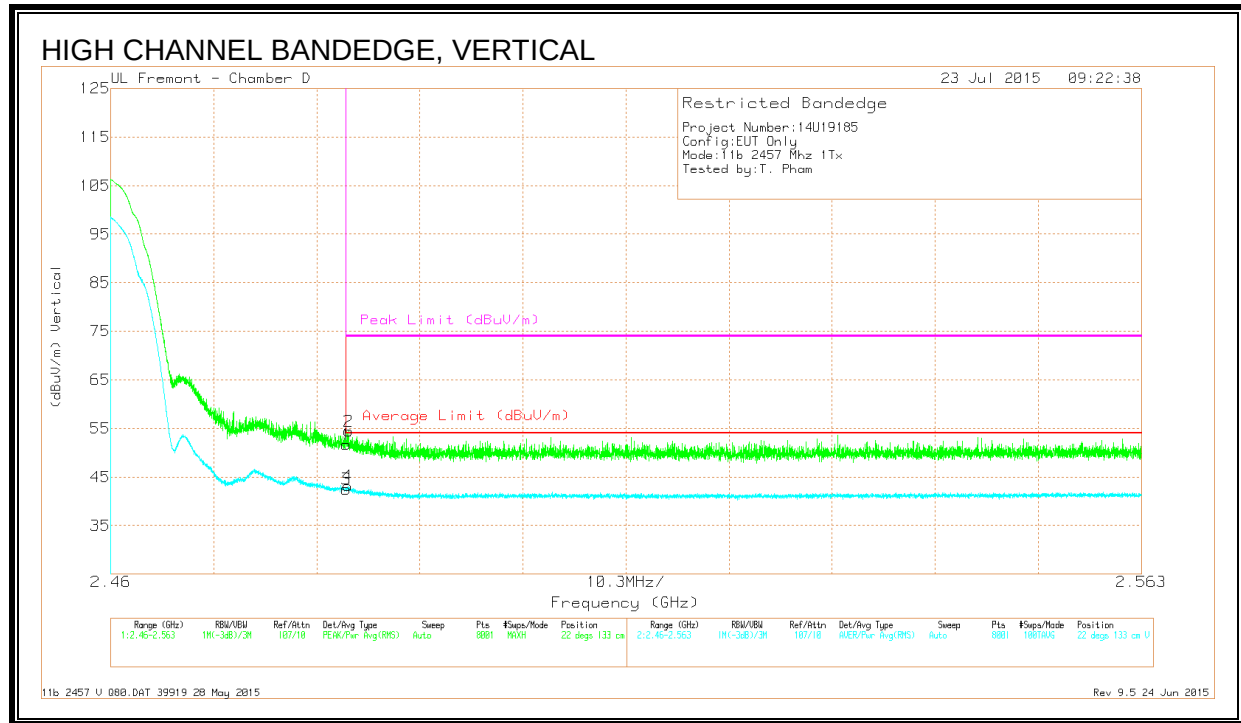
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (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	41.5	Pk	32.2	-20.8	52.9	-	-	74	-21.1	22	132	H
2	* 2.484	43.45	Pk	32.2	-20.8	54.85	-	-	74	-19.15	22	132	H
3	* 2.484	32.57	RMS	32.2	-20.8	43.97	54	-10.03	-	-	22	132	H
4	* 2.484	33.23	RMS	32.2	-20.8	44.63	54	-9.37	-	-	22	132	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection



DATA

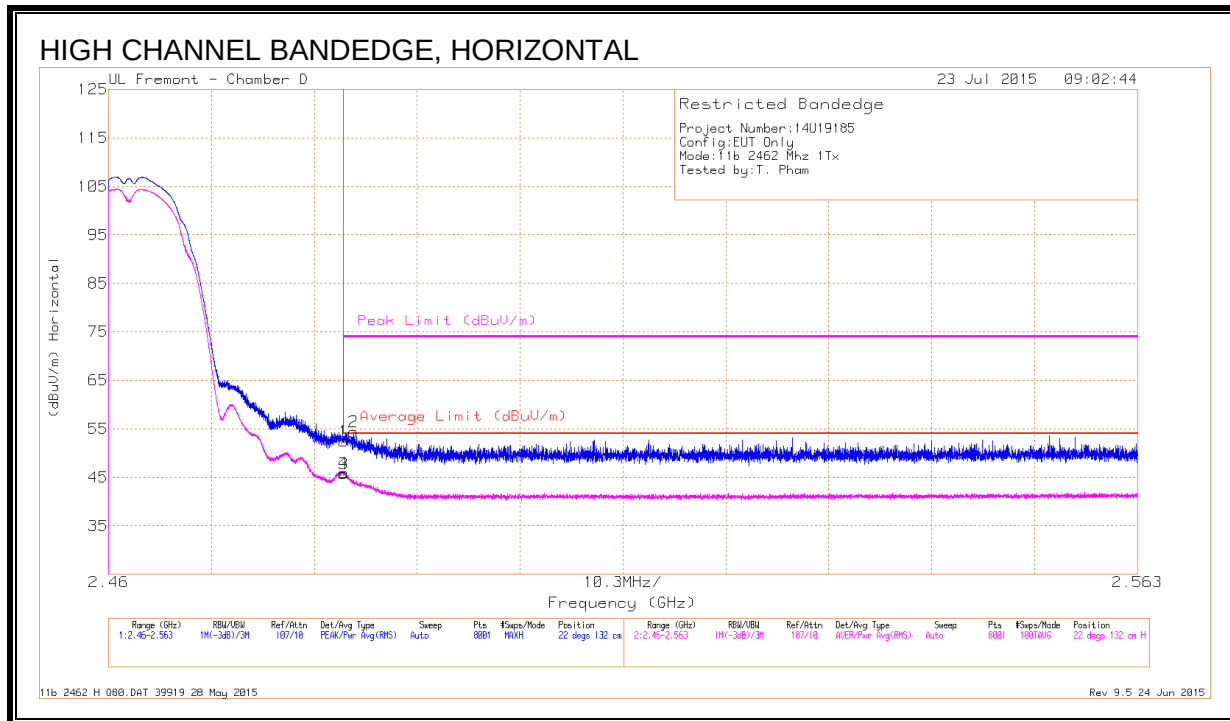
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.3	Pk	32.2	-20.8	51.7	-	-	74	-22.3	22	133	V
2	* 2.484	43.06	Pk	32.2	-20.8	54.46	-	-	74	-19.54	22	133	V
3	* 2.484	31.11	RMS	32.2	-20.8	42.51	54	-11.49	-	-	22	133	V
4	* 2.484	31.75	RMS	32.2	-20.8	43.15	54	-10.85	-	-	22	133	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 11)



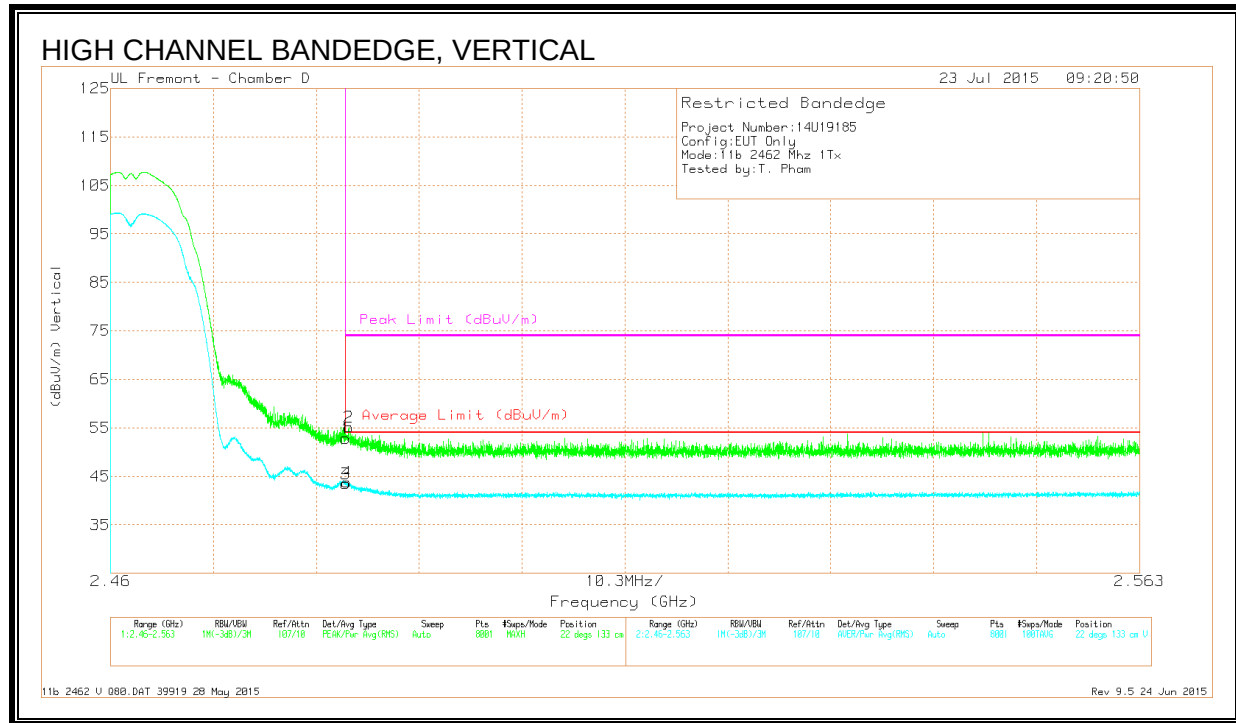
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ 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
1	* 2.484	41.05	Pk	32.2	-20.8	52.45	-	-	74	-21.55	22	132	H
2	* 2.485	42.97	Pk	32.2	-20.8	54.37	-	-	74	-19.63	22	132	H
3	* 2.484	34.36	RMS	32.2	-20.8	45.76	54	-8.24	-	-	22	132	H
4	* 2.484	34.55	RMS	32.2	-20.8	45.95	54	-8.05	-	-	22	132	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection



DATA

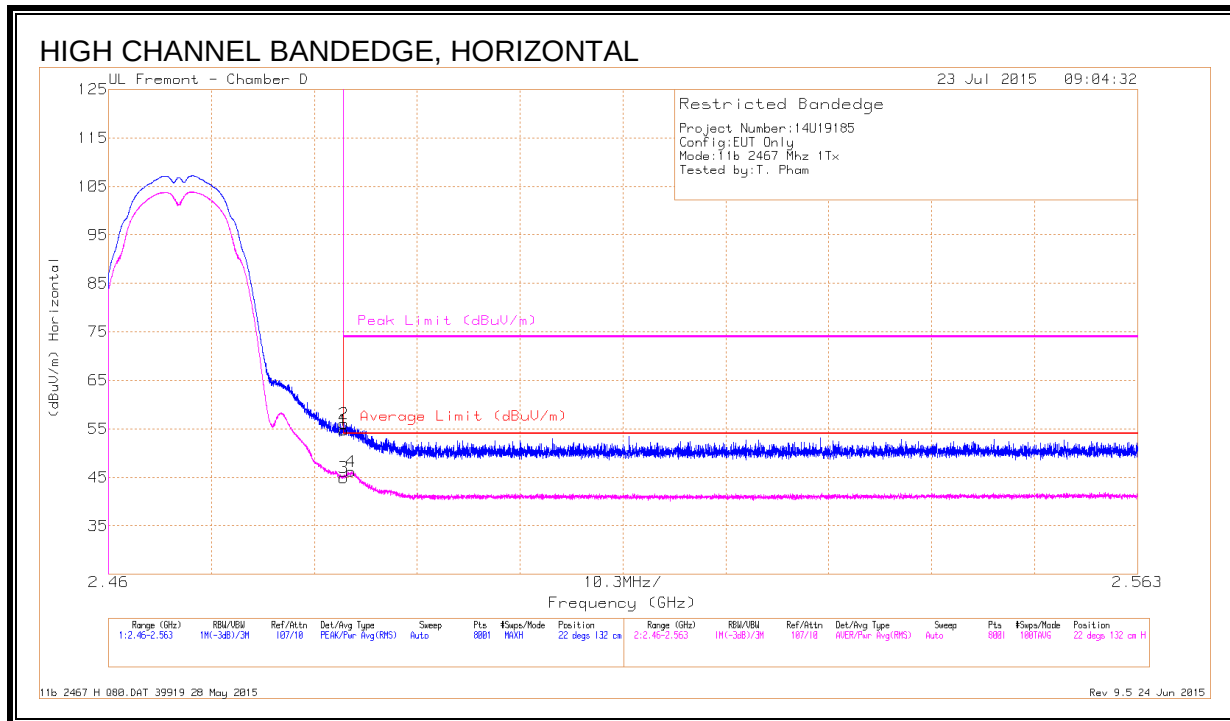
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.42	Pk	32.2	-20.8	52.82	-	-	74	-21.18	22	133	V
2	* 2.484	43.76	Pk	32.2	-20.8	55.16	-	-	74	-18.84	22	133	V
3	* 2.484	32.09	RMS	32.2	-20.8	43.49	54	-10.51	-	-	22	133	V
4	* 2.484	32.35	RMS	32.2	-20.8	43.75	54	-10.25	-	-	22	133	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 12)



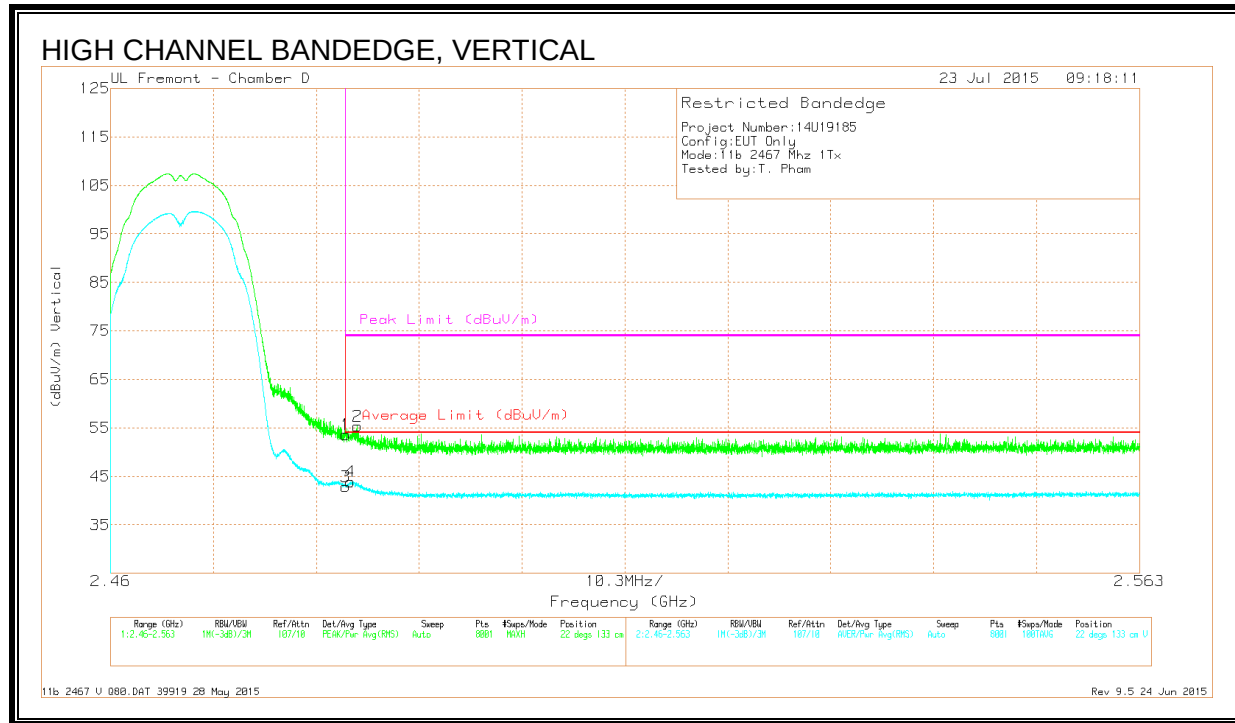
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ 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
1	* 2.484	43.29	Pk	32.2	-20.8	54.69	-	-	74	-19.31	22	132	H
2	* 2.484	44.71	Pk	32.2	-20.8	56.11	-	-	74	-17.89	22	132	H
3	* 2.484	33.53	RMS	32.2	-20.8	44.93	54	-9.07	-	-	22	132	H
4	* 2.484	34.8	RMS	32.2	-20.8	46.2	54	-7.8	-	-	22	132	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection



DATA

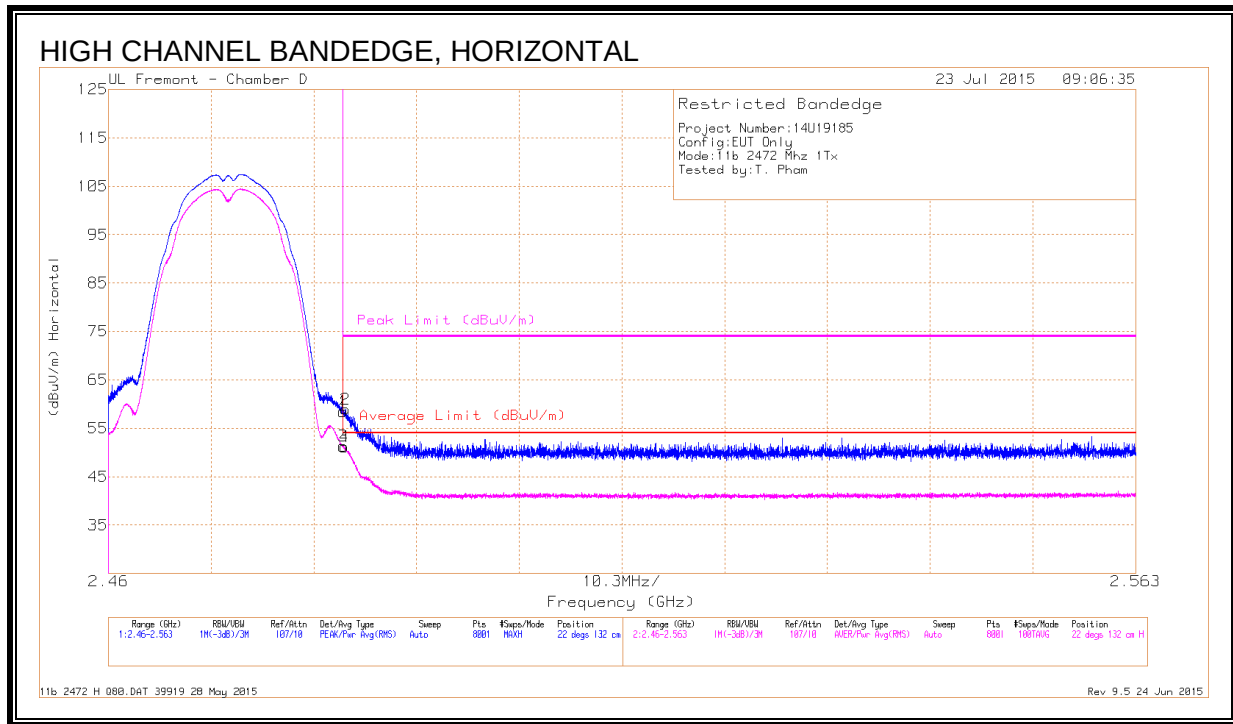
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.2	Pk	32.2	-20.8	53.6	-	-	74	-20.4	22	133	V
2	* 2.485	43.97	Pk	32.2	-20.8	55.37	-	-	74	-18.63	22	133	V
3	* 2.484	31.51	RMS	32.2	-20.8	42.91	54	-11.09	-	-	22	133	V
4	* 2.484	32.47	RMS	32.2	-20.8	43.87	54	-10.13	-	-	22	133	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 13)



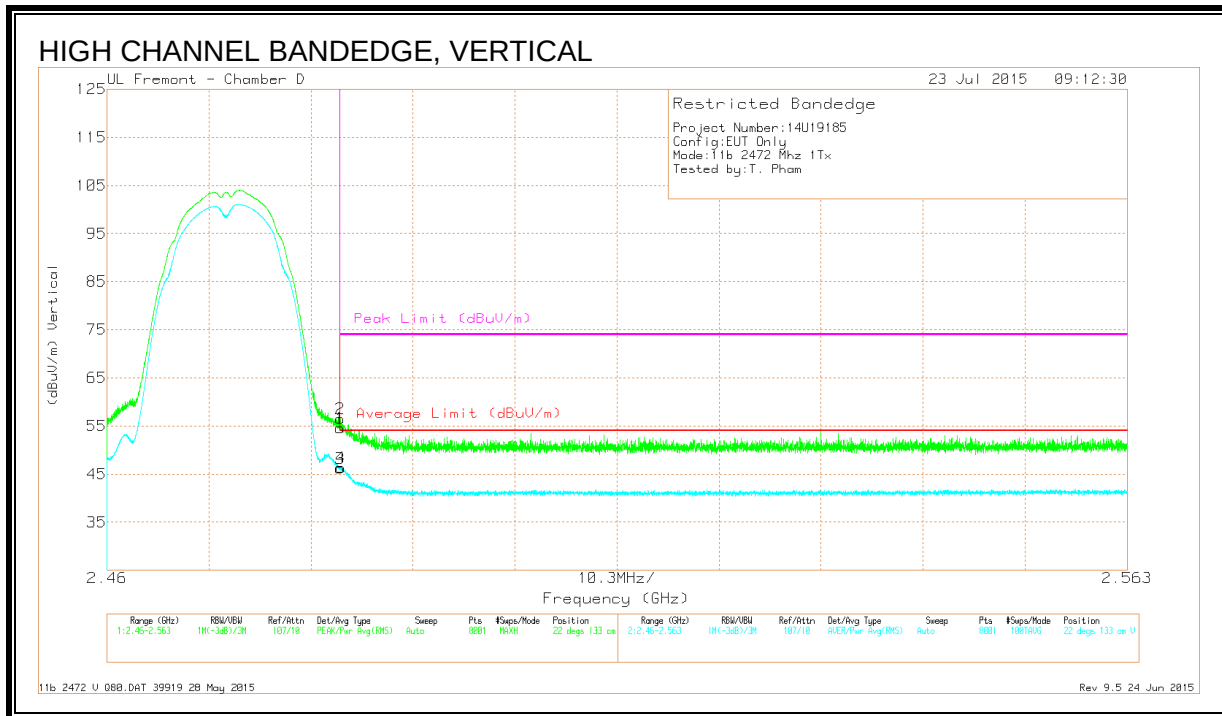
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (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	47.05	Pk	32.2	-20.8	58.45	-	-	74	-15.55	22	132	H
2	* 2.484	47.57	Pk	32.2	-20.8	58.97	-	-	74	-15.03	22	132	H
3	* 2.484	39.93	RMS	32.2	-20.8	51.33	54	-2.67	-	-	22	132	H
4	* 2.484	39.77	RMS	32.2	-20.8	51.17	54	-2.83	-	-	22	132	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection



DATA

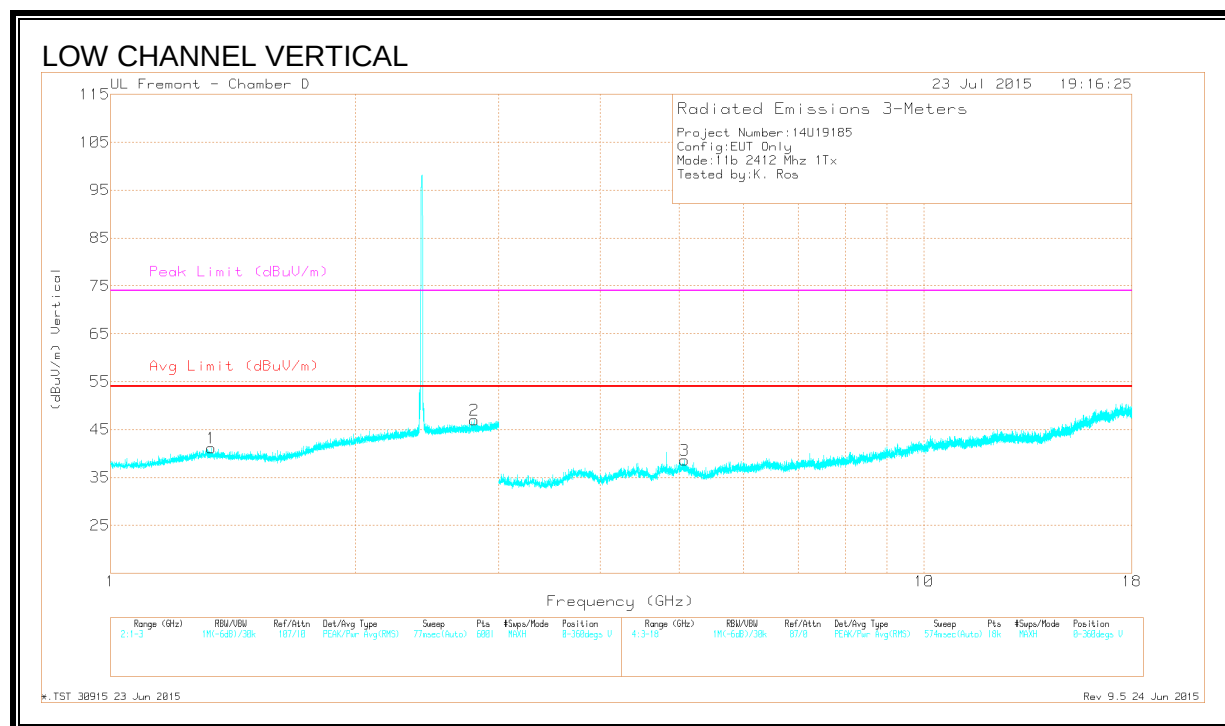
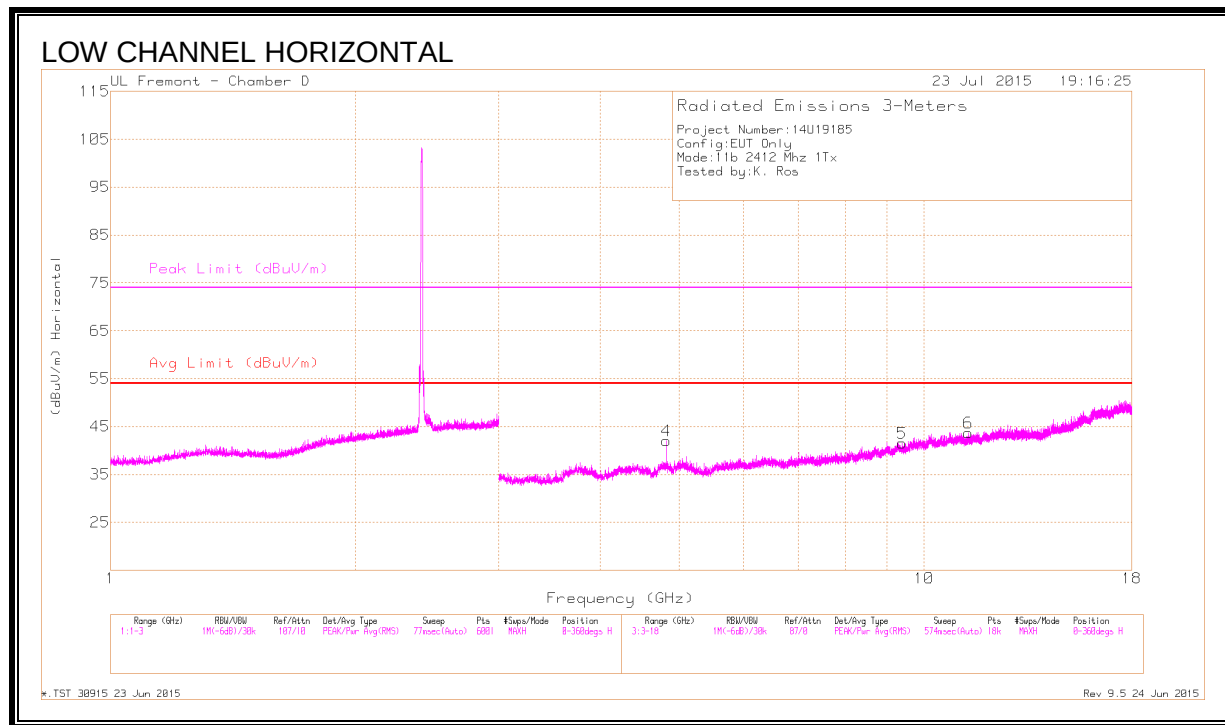
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	43.16	Pk	32.2	-20.8	54.56	-	-	74	-19.44	22	133	V
2	* 2.484	45.11	Pk	32.2	-20.8	56.51	-	-	74	-17.49	22	133	V
3	* 2.484	34.8	RMS	32.2	-20.8	46.2	54	-7.8	-	-	22	133	V
4	* 2.484	34.96	RMS	32.2	-20.8	46.36	54	-7.64	-	-	22	133	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL, CH 1



DATA

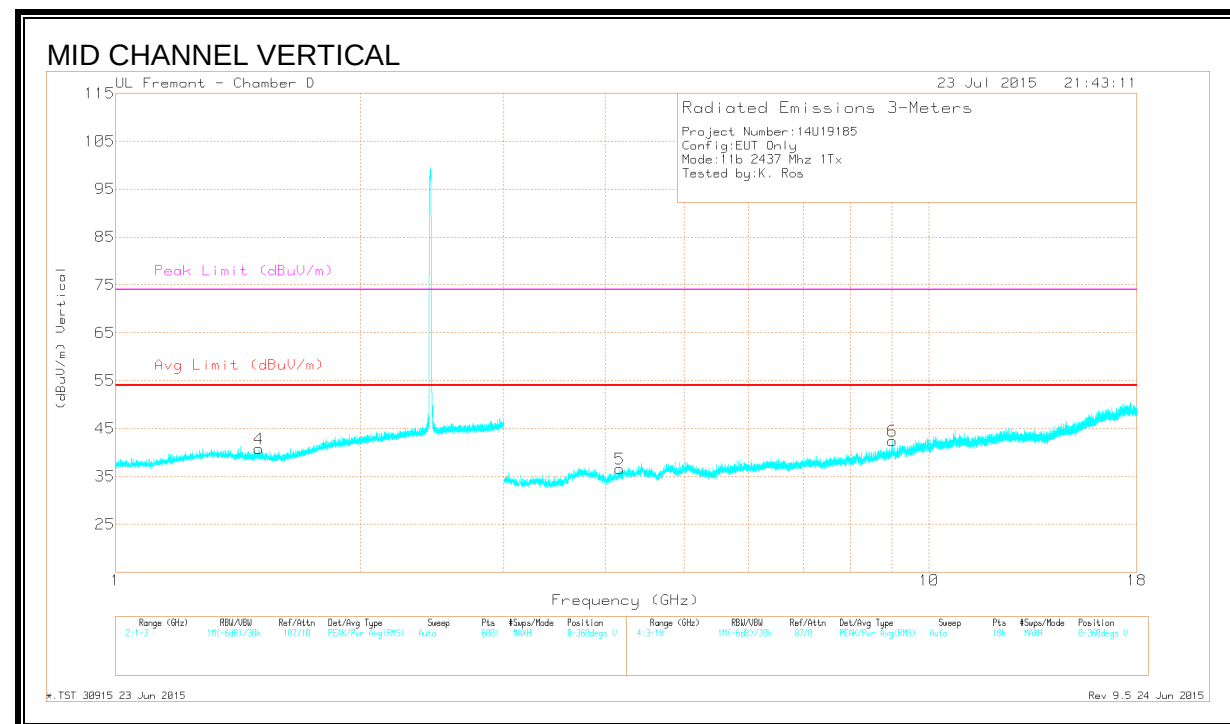
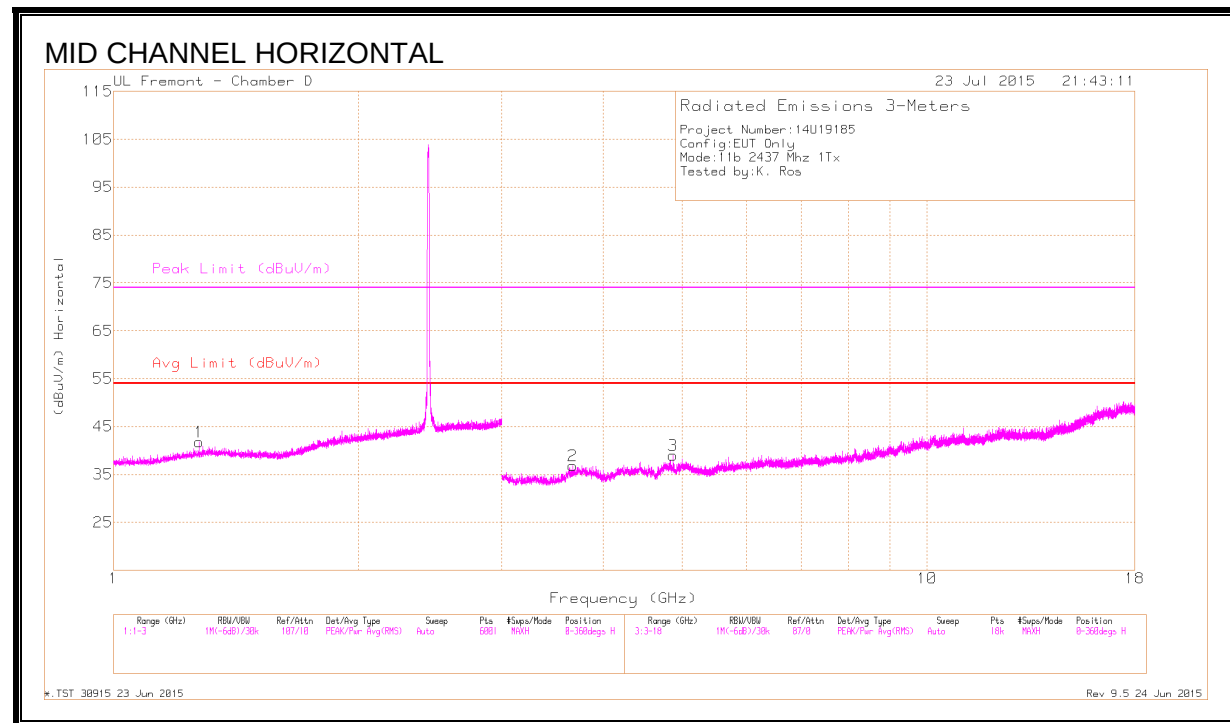
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.329	42.24	PK2	28.9	-22.2	48.94	-	-	74	-25.06	207	113	V
	* 1.332	30.34	MAv1	28.9	-22.2	37.04	54	-16.96	-	-	207	113	V
2	* 2.799	42.07	PK2	32.5	-20.3	54.27	-	-	74	-19.73	159	148	V
	* 2.798	30.32	MAv1	32.5	-20.3	42.52	54	-11.48	-	-	159	148	V
4	* 4.824	42.16	PK2	34.1	-27.4	48.86	-	-	74	-25.14	49	228	H
	* 4.824	33.74	MAv1	34.1	-27.4	40.44	54	-13.56	-	-	49	228	H
5	* 9.401	34.14	PK2	36.5	-21.9	48.74	-	-	74	-25.26	122	168	H
	* 9.4	23.32	MAv1	36.5	-21.9	37.92	54	-16.08	-	-	122	168	H
6	* 11.336	34.37	PK2	38	-21.2	51.17	-	-	74	-22.83	213	141	H
	* 11.337	23.18	MAv1	38	-21.2	39.98	54	-14.02	-	-	213	141	H
3	* 5.078	37.73	PK2	34.2	-26.8	45.13	-	-	74	-28.87	205	186	V
	* 5.077	26.58	MAv1	34.2	-26.8	33.98	54	-20.02	-	-	205	186	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL, CH 6



DATA

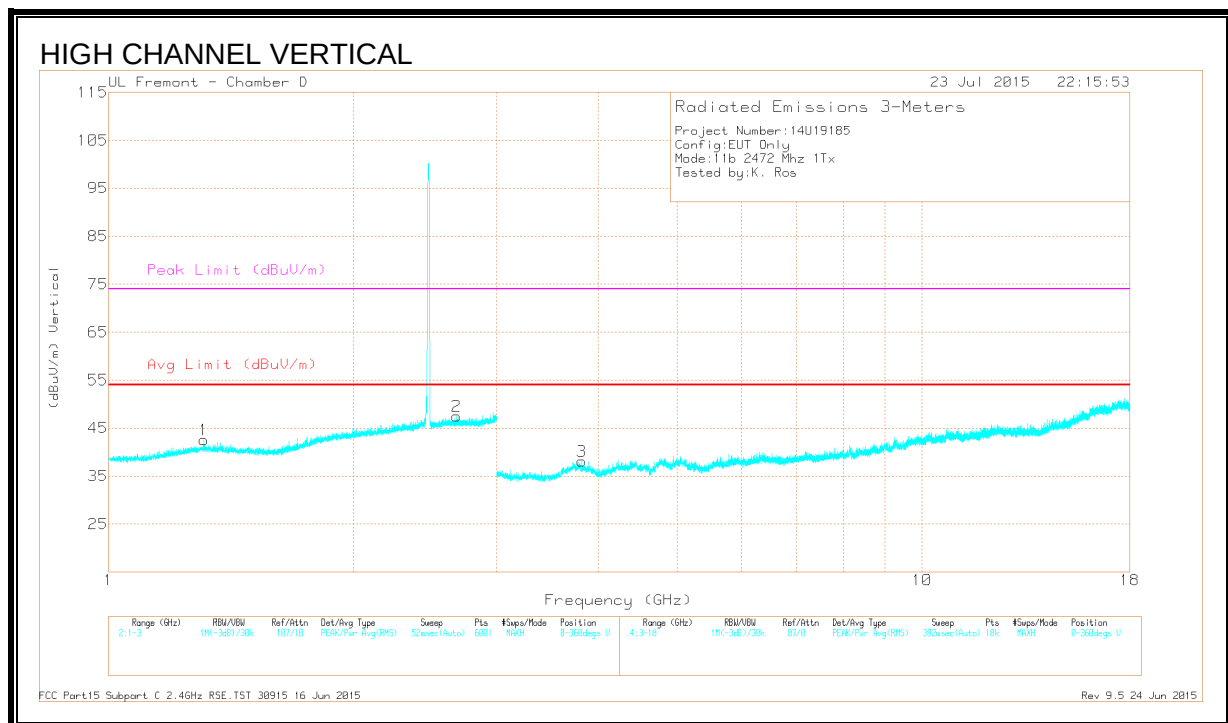
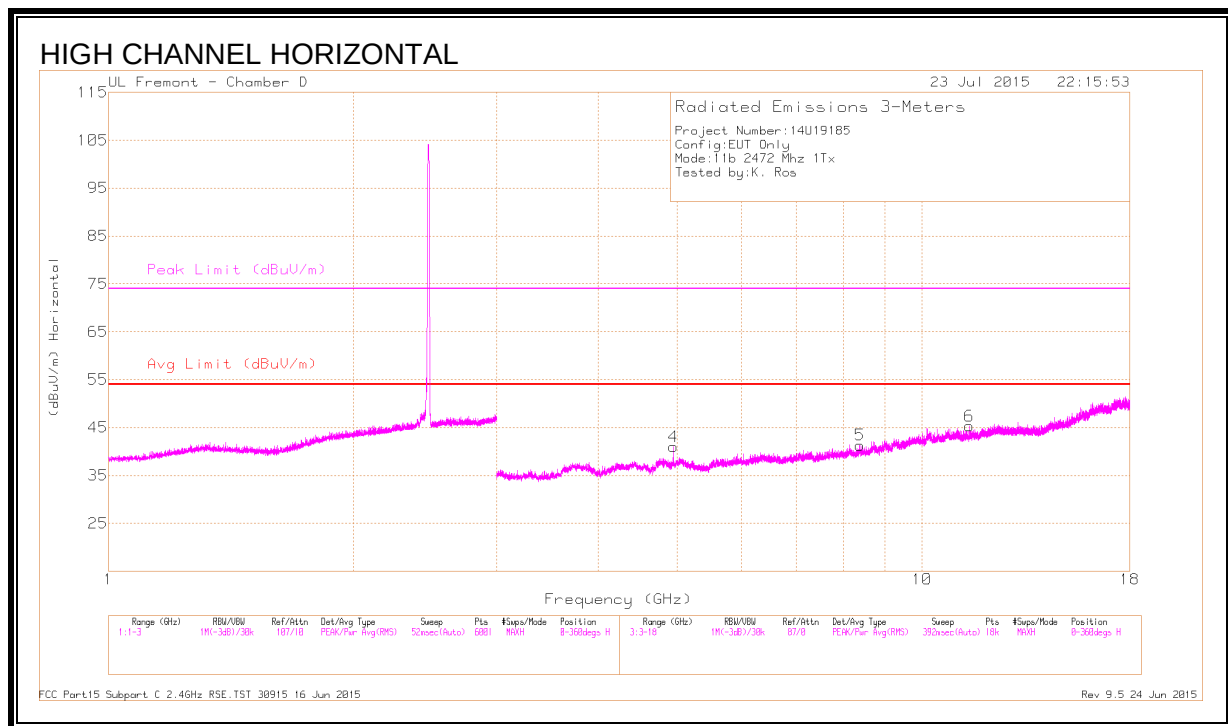
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.274	42.06	PK2	28.8	-22.3	48.56	-	-	74	-25.44	315	127	H
	* 1.276	30.39	MAv1	28.8	-22.3	36.89	54	-17.11	-	-	315	127	H
4	* 1.498	42.29	PK2	28.3	-21.9	48.69	-	-	74	-25.31	278	150	V
	* 1.499	30.1	MAv1	28.3	-21.9	36.5	54	-17.5	-	-	278	150	V
2	* 3.666	39.41	PK2	33.1	-29.1	43.41	-	-	74	-30.59	201	179	H
	* 3.669	27.63	MAv1	33.1	-29.1	31.63	54	-22.37	-	-	201	179	H
3	* 4.874	39.1	PK2	34.1	-28.1	45.1	-	-	74	-28.9	56	202	H
	* 4.874	29.77	MAv1	34.1	-28.1	35.77	54	-18.23	-	-	56	202	H
5	* 4.164	38.34	PK2	33.4	-28.1	43.64	-	-	74	-30.36	122	169	V
	* 4.163	27.06	MAv1	33.4	-28.1	32.36	54	-21.64	-	-	122	169	V
6	* 9.016	34.94	PK2	36.1	-22.1	48.94	-	-	74	-25.06	183	100	V
	* 9.018	23.56	MAv1	36.1	-22.1	37.56	54	-16.44	-	-	183	100	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL, CH 13



DATA

Markers	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	* 1.311	42.02	PK2	29	-22.3	48.72	-	-	74	-25.28	310	127	V
	* 1.309	30.49	MAv1	29	-22.3	37.19	54	-16.81	-	-	310	127	V
2	* 2.678	42.33	PK2	32.4	-20.6	54.13	-	-	74	-19.87	249	171	V
	* 2.676	30.22	MAv1	32.4	-20.6	42.02	54	-11.98	-	-	249	171	V
4	* 4.944	39.75	PK2	34.2	-27.9	46.05	-	-	74	-27.95	28	227	H
	* 4.944	31.09	MAv1	34.2	-27.9	37.39	54	-16.61	-	-	28	227	H
5	* 8.39	34.81	PK2	35.7	-23.2	47.31	-	-	74	-26.69	89	191	H
	* 8.389	24.21	MAv1	35.7	-23.2	36.71	54	-17.29	-	-	89	191	H
6	* 11.423	34.72	PK2	38	-21.6	51.12	-	-	74	-22.88	138	167	H
	* 11.422	23.25	MAv1	38	-21.6	39.65	54	-14.35	-	-	138	167	H
3	* 3.818	38.99	PK2	33.4	-28.6	43.79	-	-	74	-30.21	98	130	V
	* 3.82	27.59	MAv1	33.4	-28.6	32.39	54	-21.61	-	-	98	130	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average