

9.5. 11n HT20 2TX CDD MIMO MODE IN THE 2.4GHz BAND

9.5.1. 6 dB BANDWIDTH

LIMITS

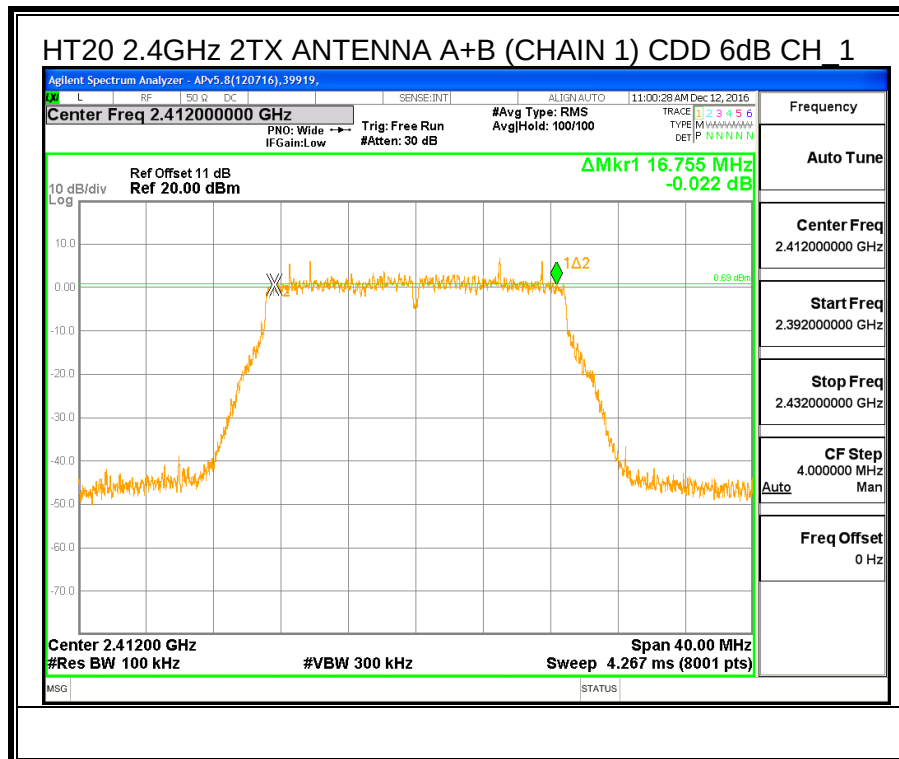
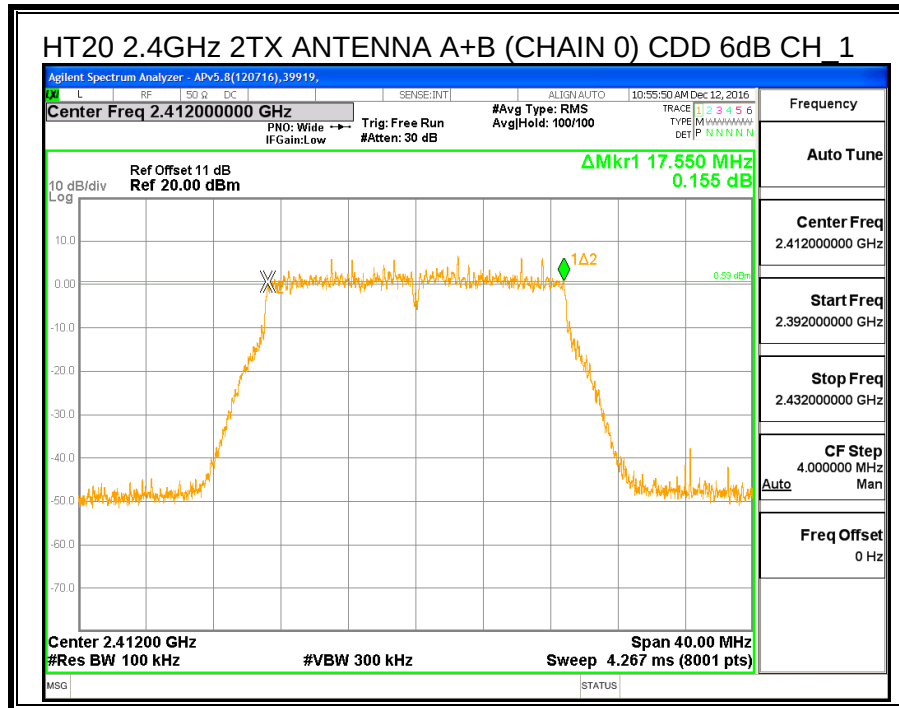
FCC §15.247 (a) (2)

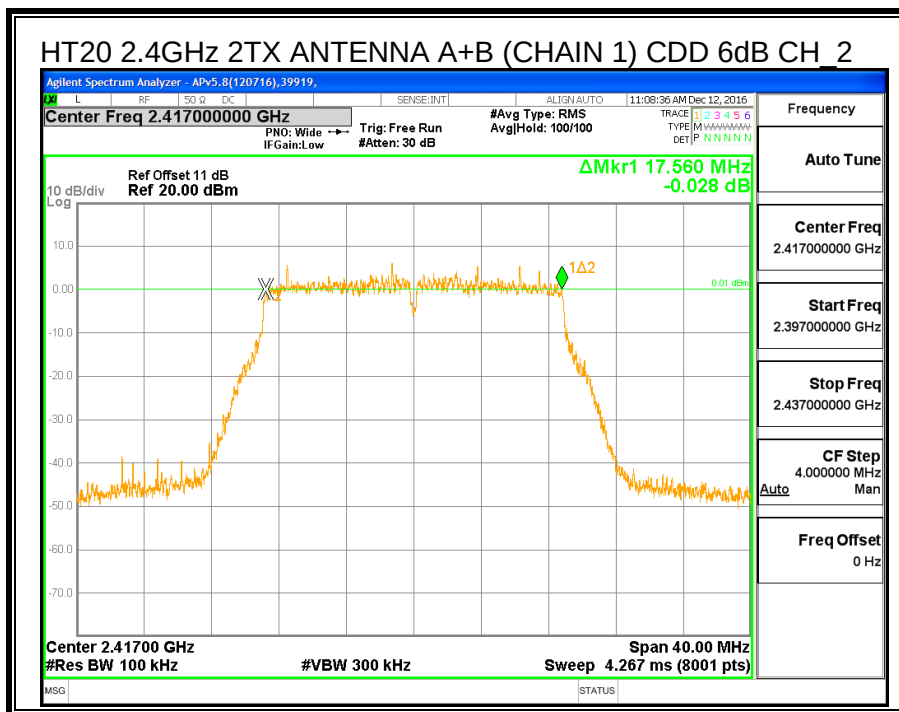
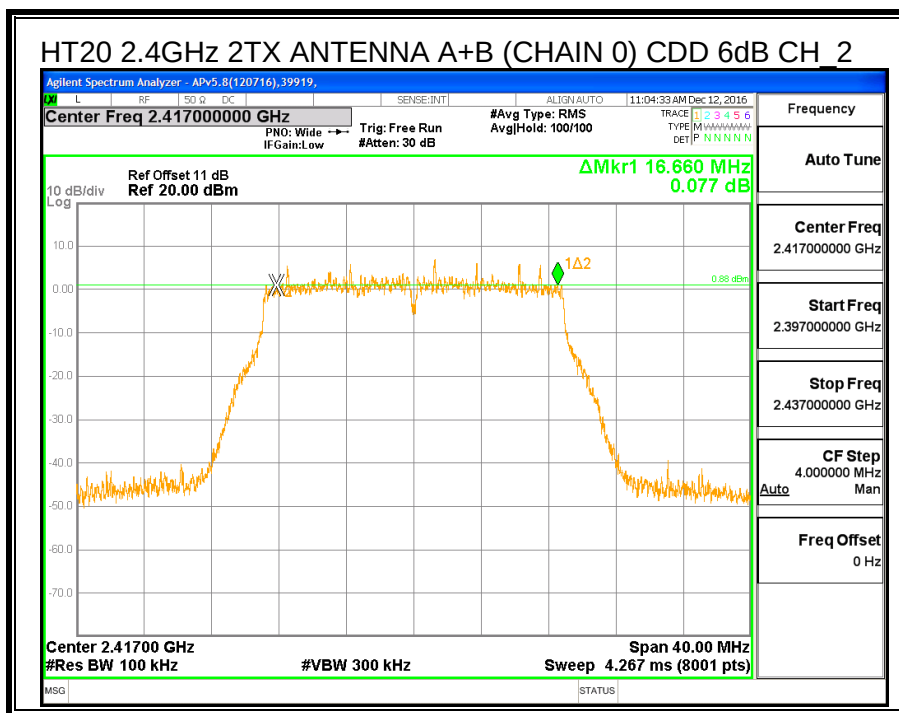
IC RSS-247 (5.2) (1)

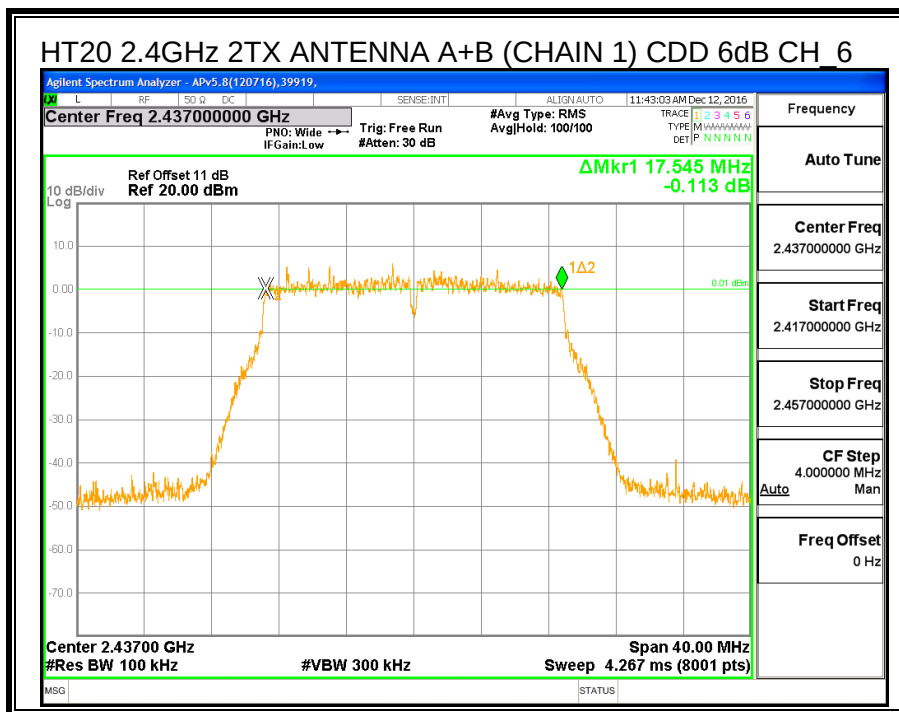
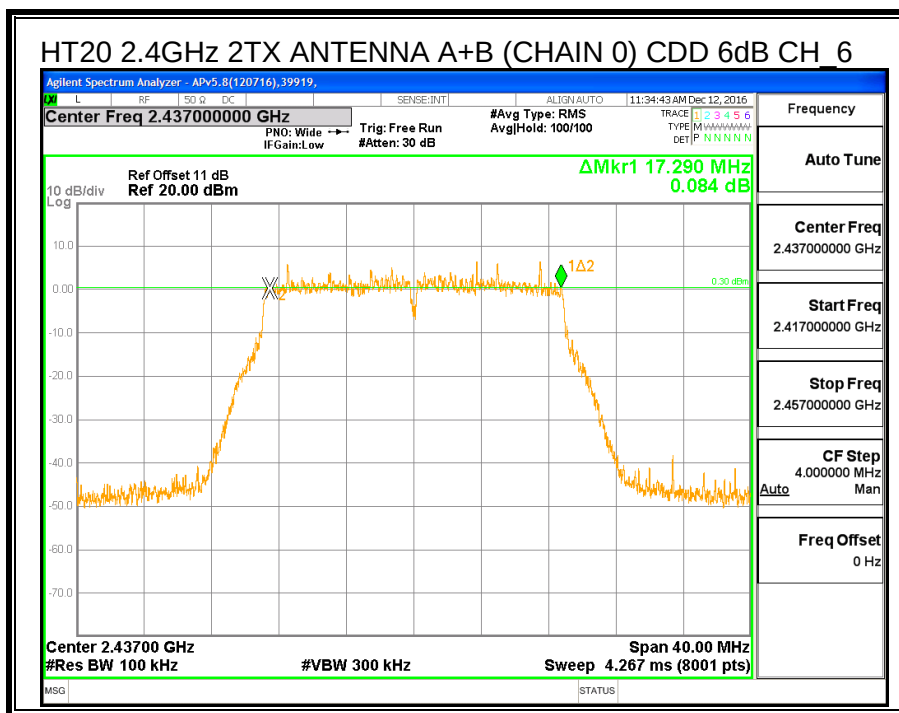
The minimum 6 dB bandwidth shall be at least 500 kHz.

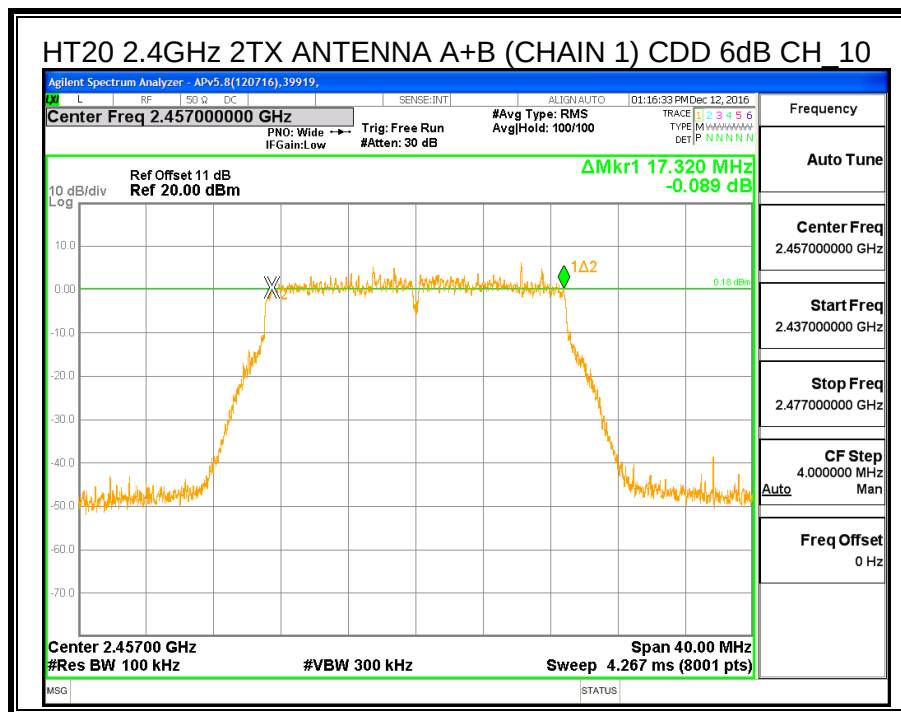
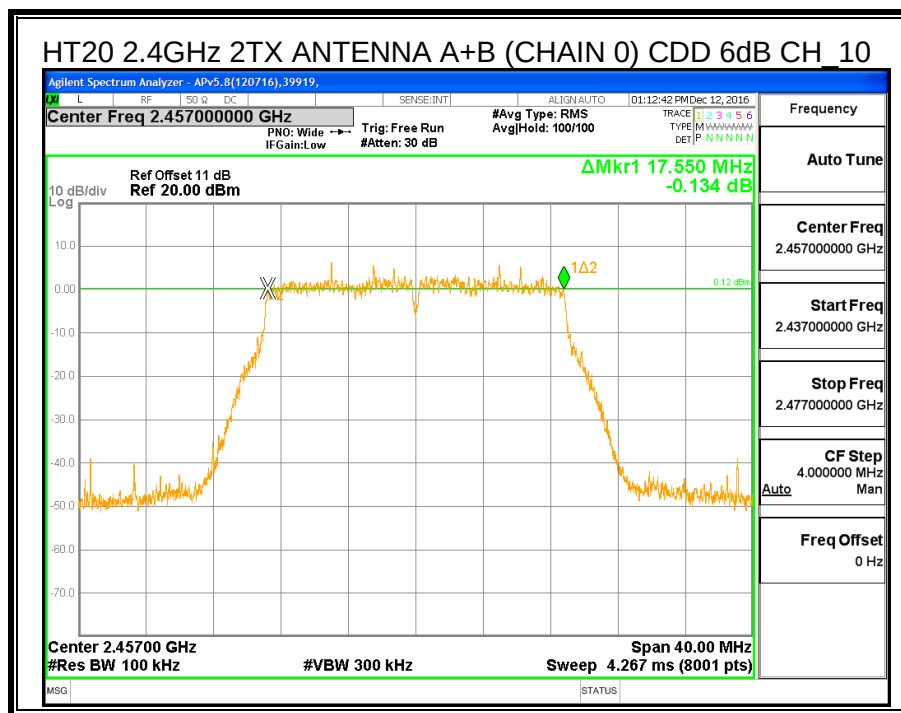
RESULTS

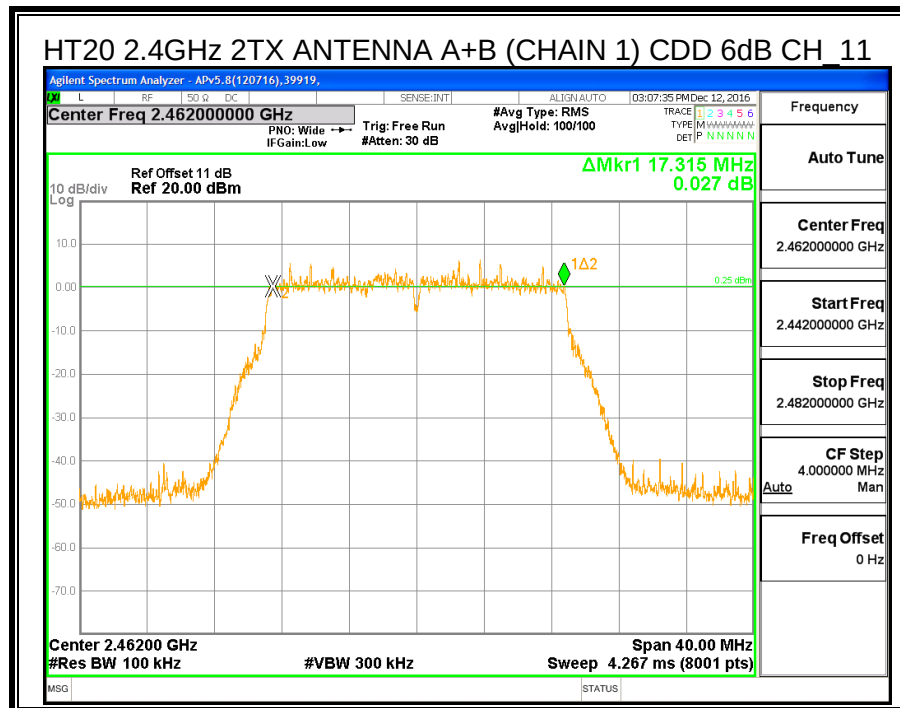
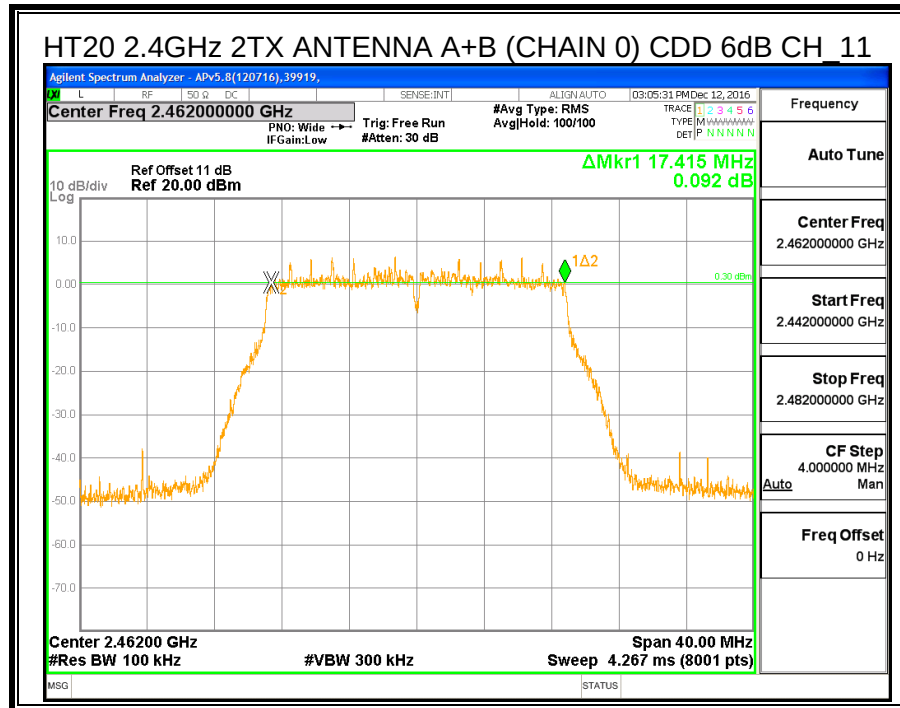
Channel	Frequency (MHz)	6 dB BW ANTENNA A (MHz)	6 dB BW ANTENNA B (MHz)	Minimum Limit (MHz)
Low_1	2412	17.550	16.755	0.5
Low_2	2417	16.660	17.560	0.5
Middle_6	2437	17.290	17.545	0.5
High_10	2457	17.550	17.320	0.5
High_11	2462	17.415	17.315	0.5
High_12	2467	17.545	17.555	0.5
High_13	2472	17.055	17.580	0.5

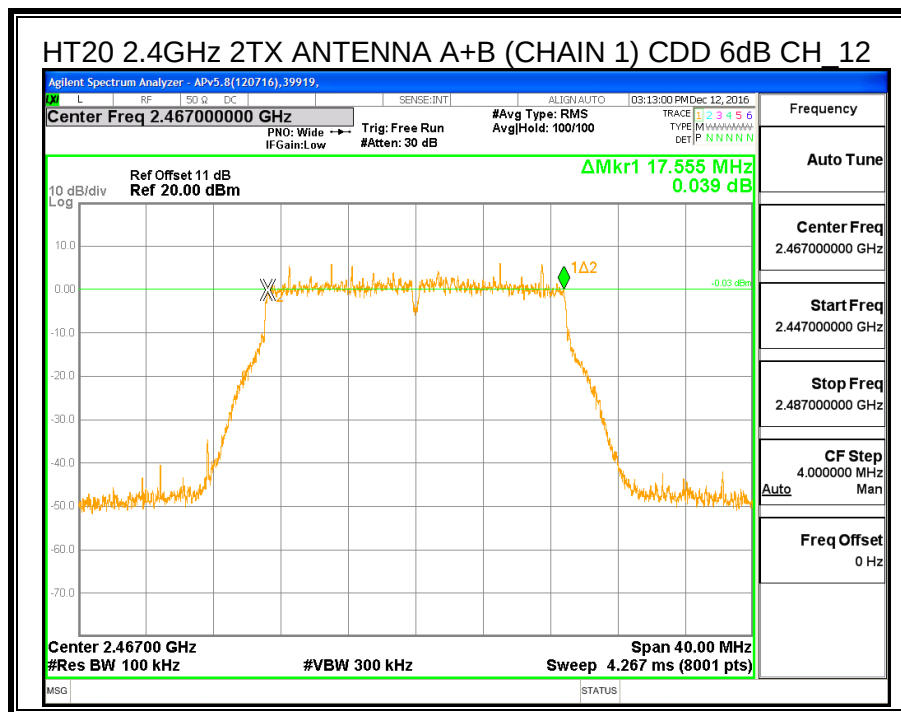
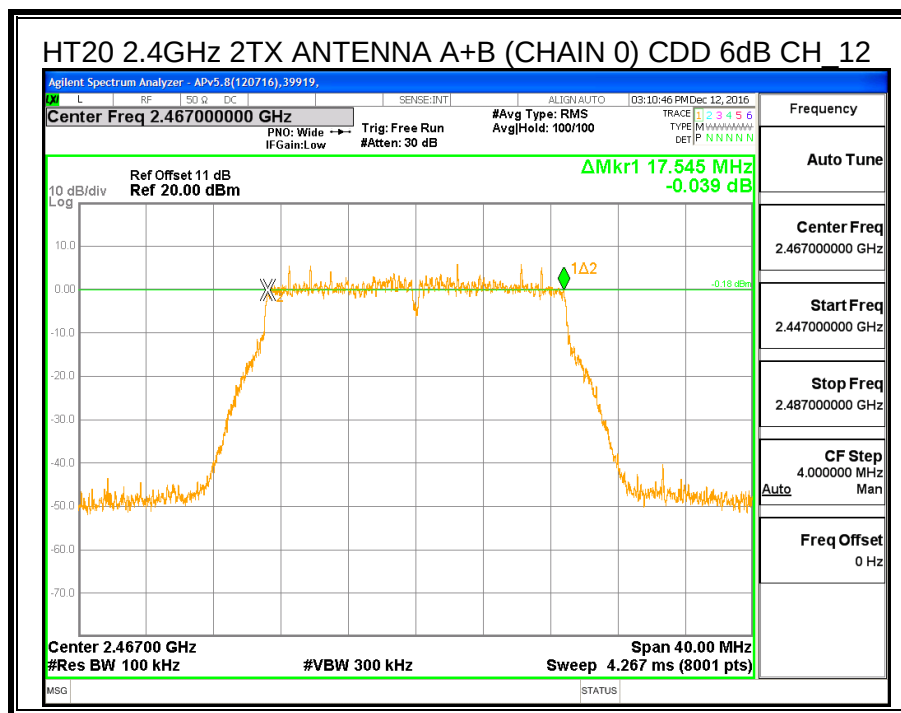


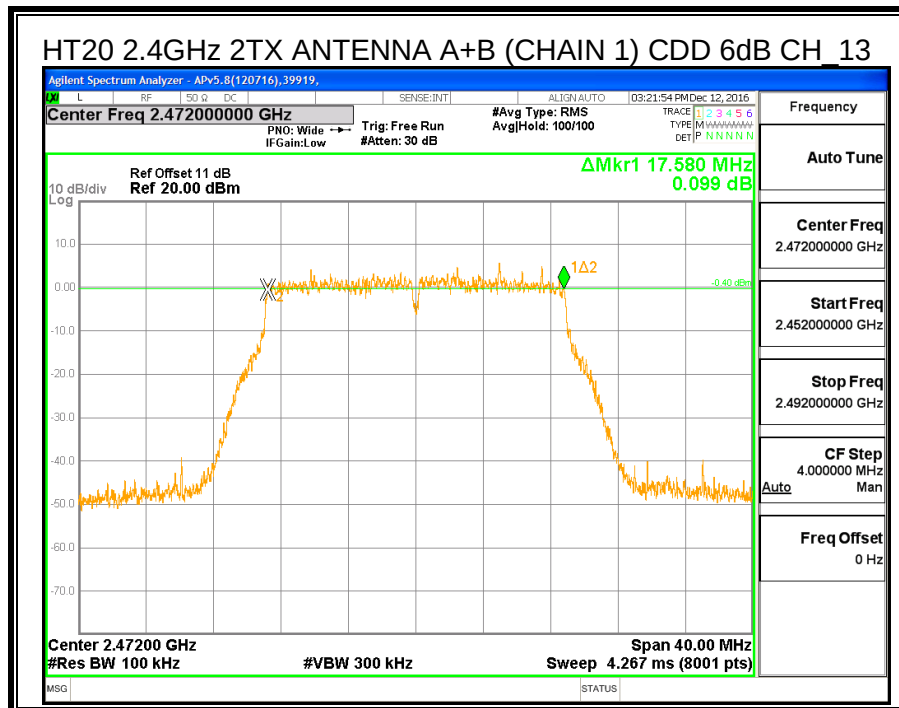
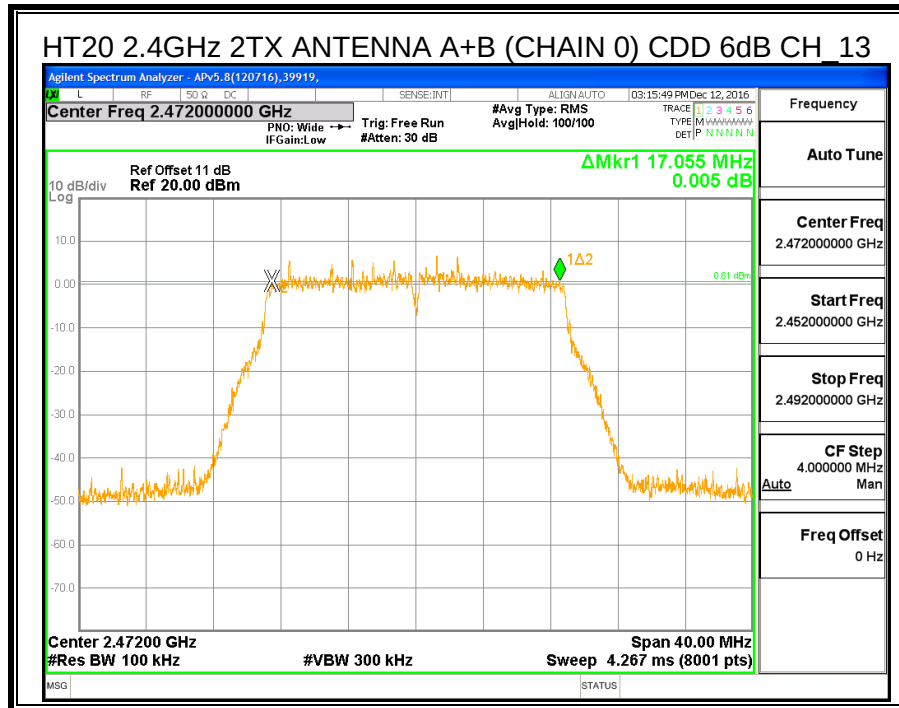












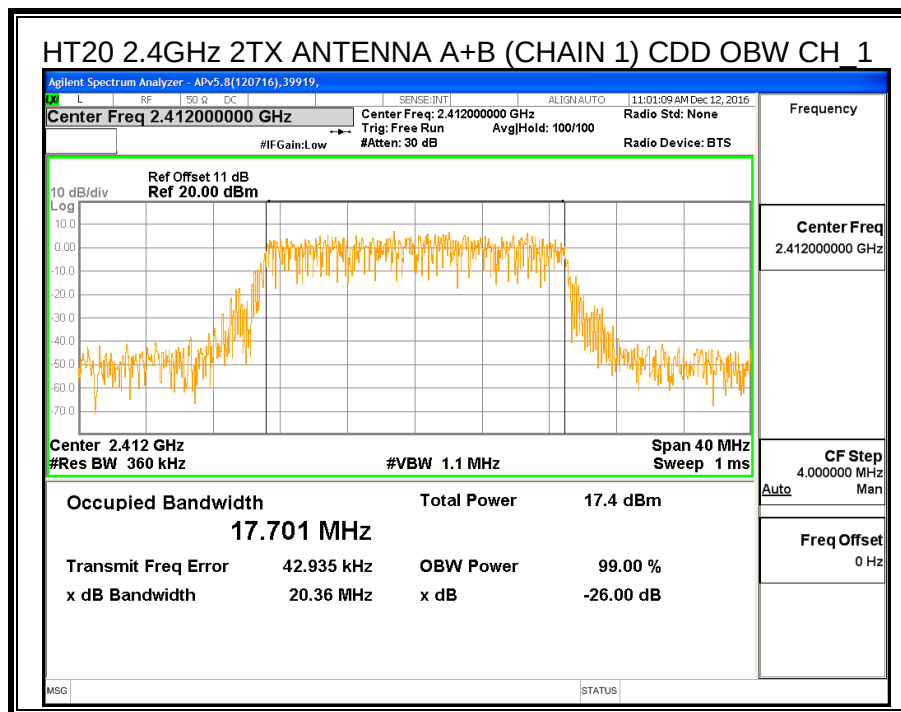
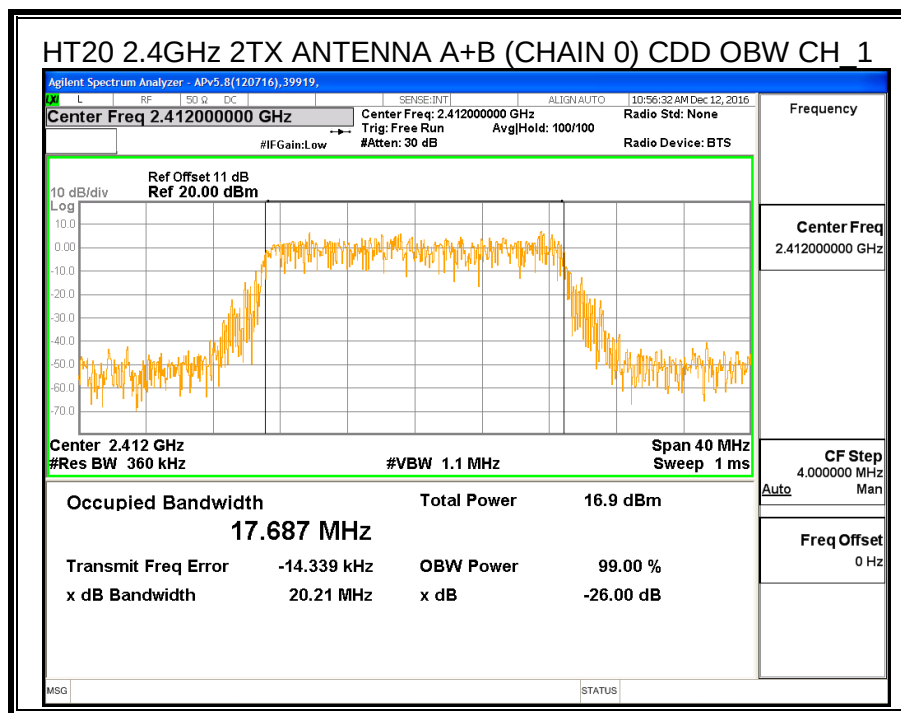
9.5.2. 99% BANDWIDTH

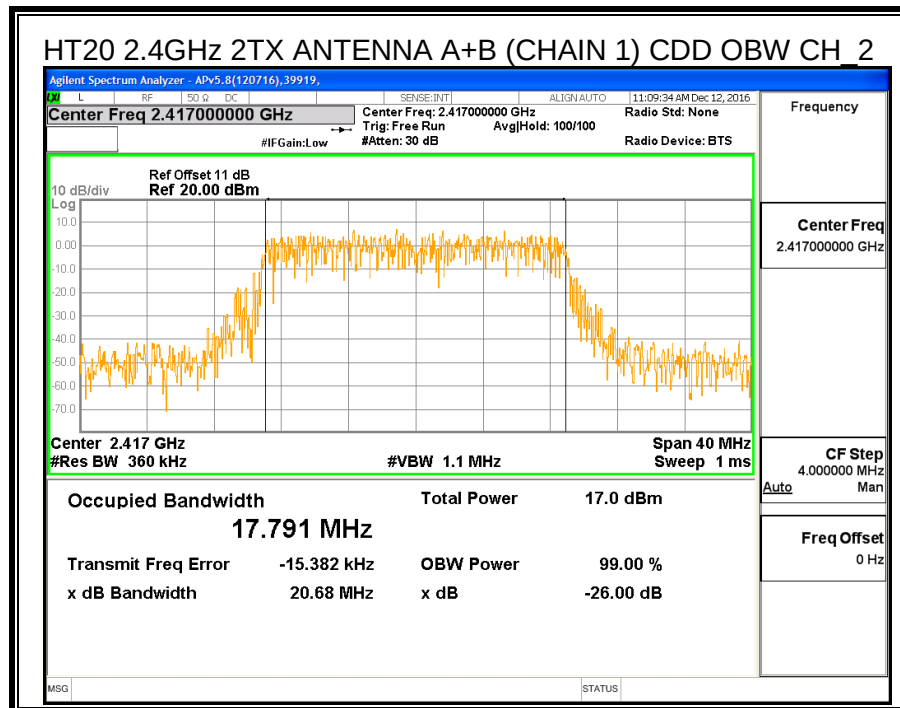
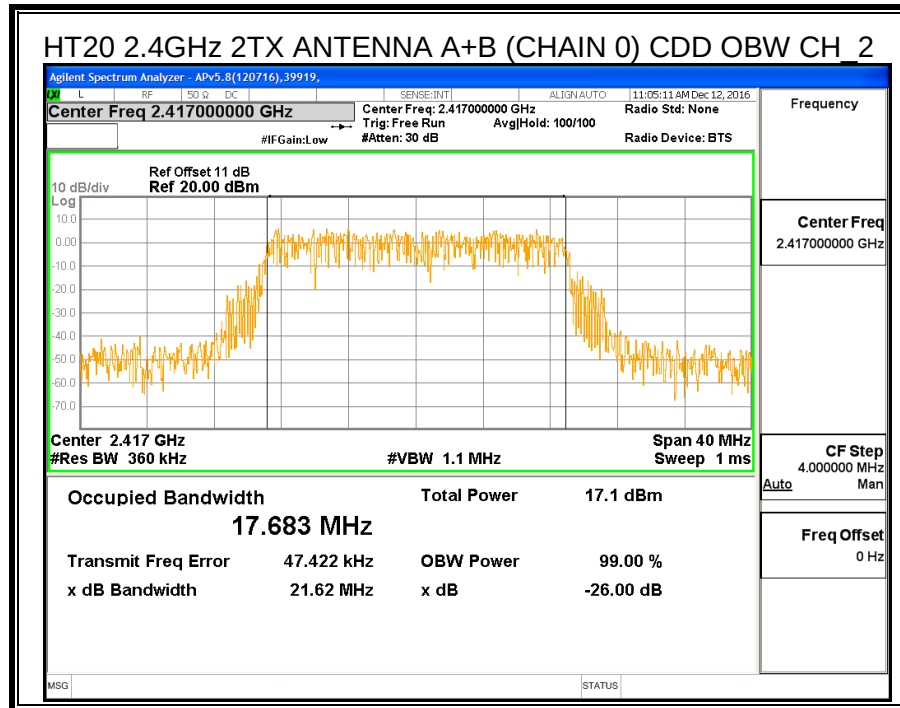
LIMITS

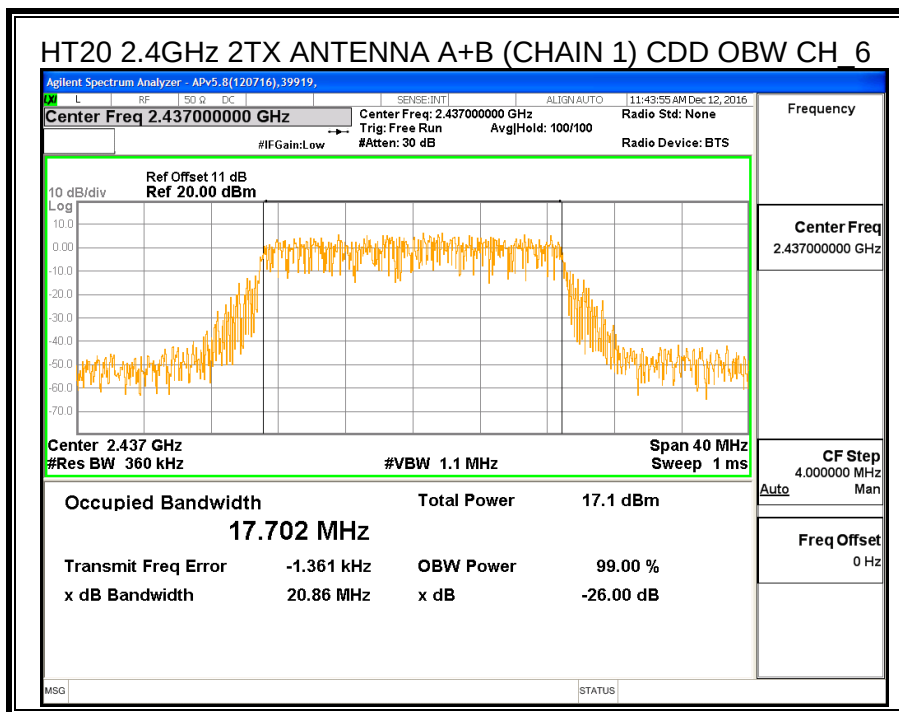
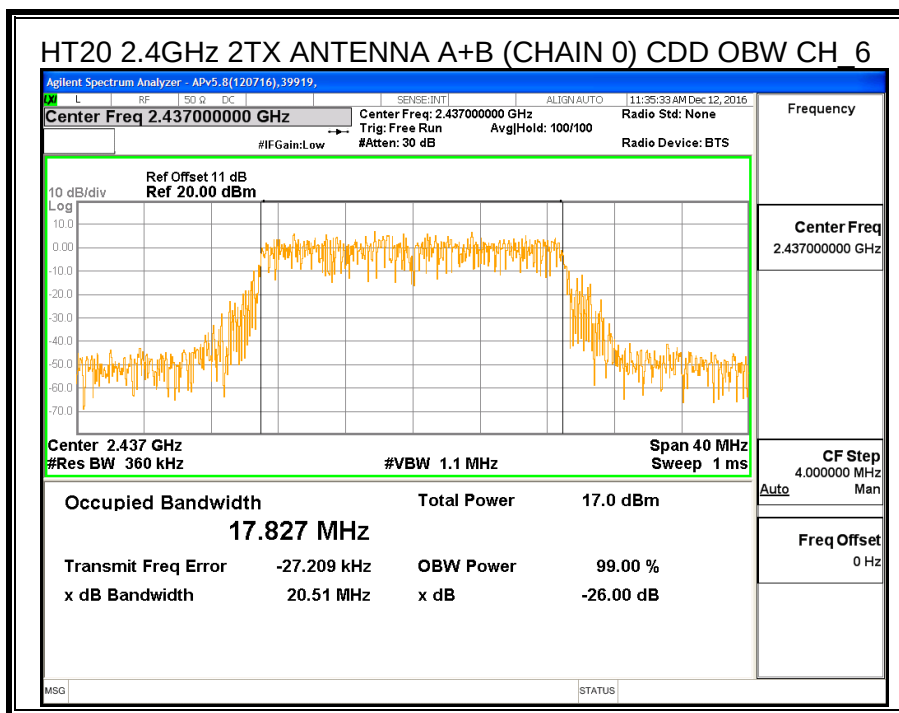
None; for reporting purposes only.

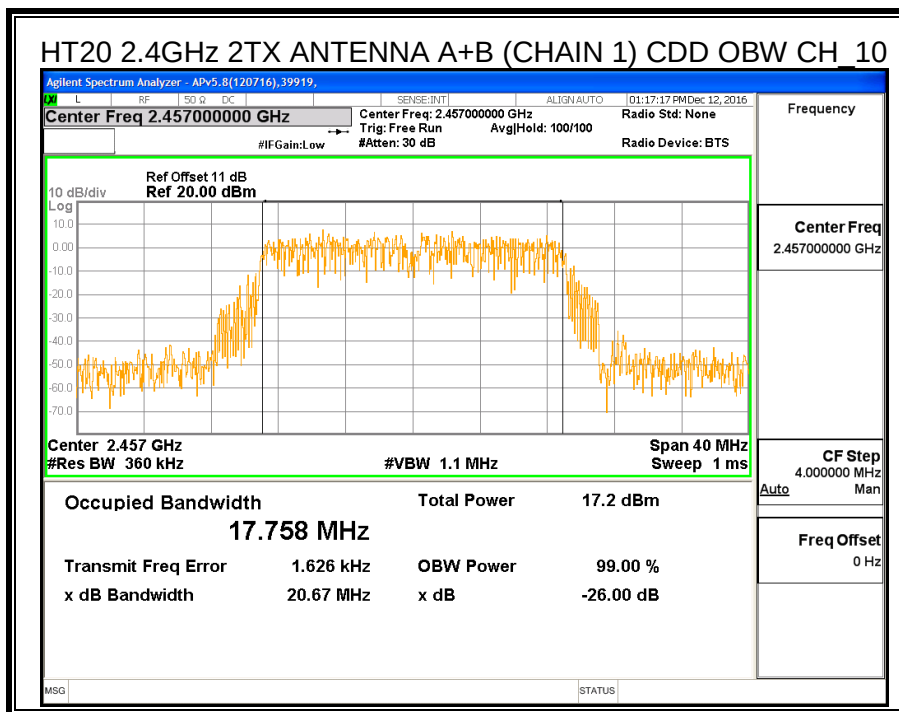
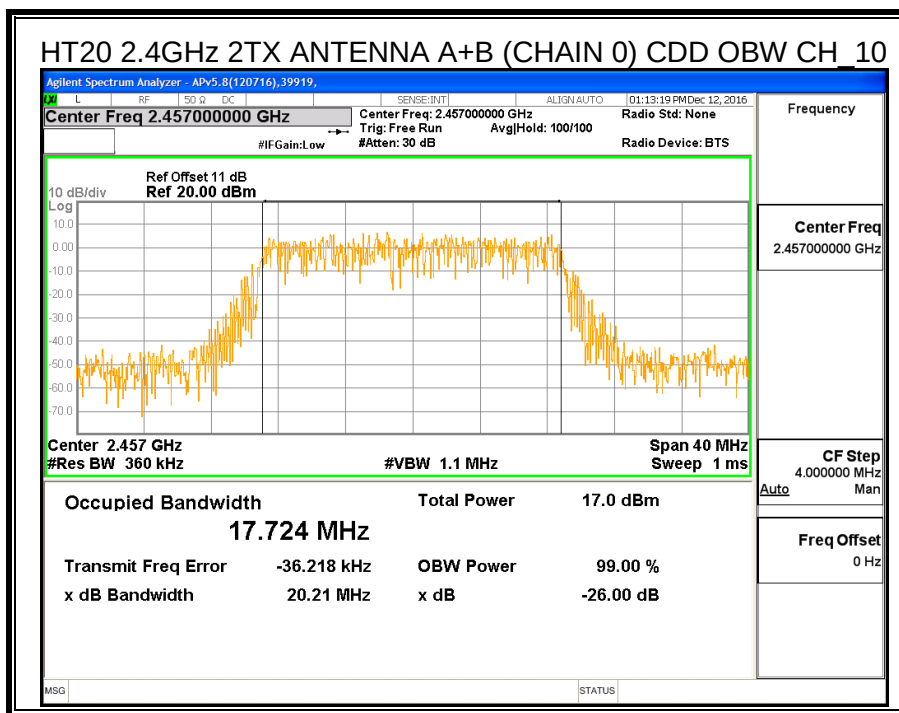
RESULTS

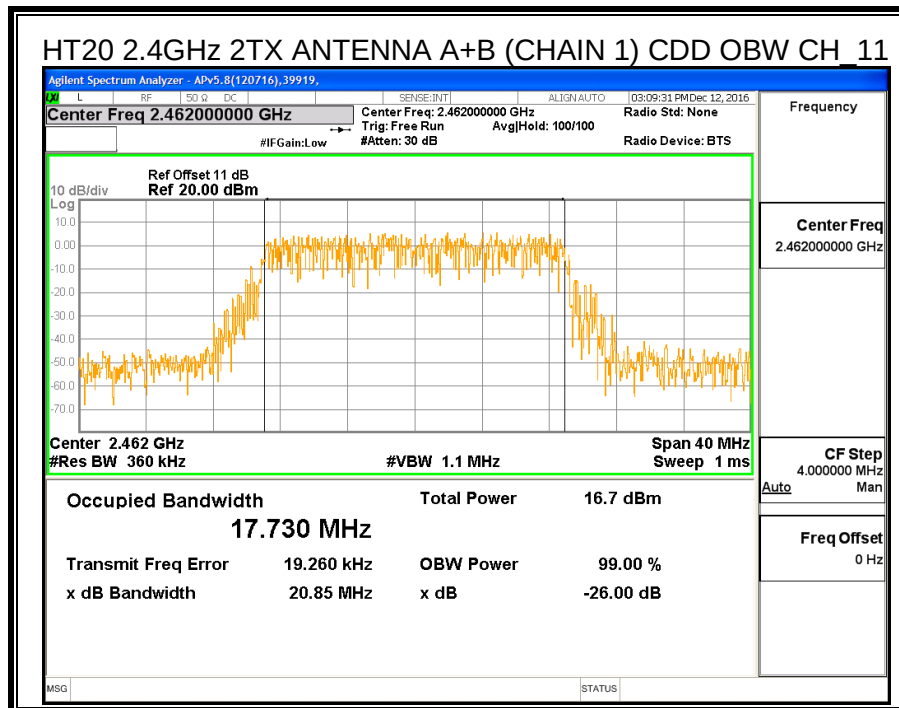
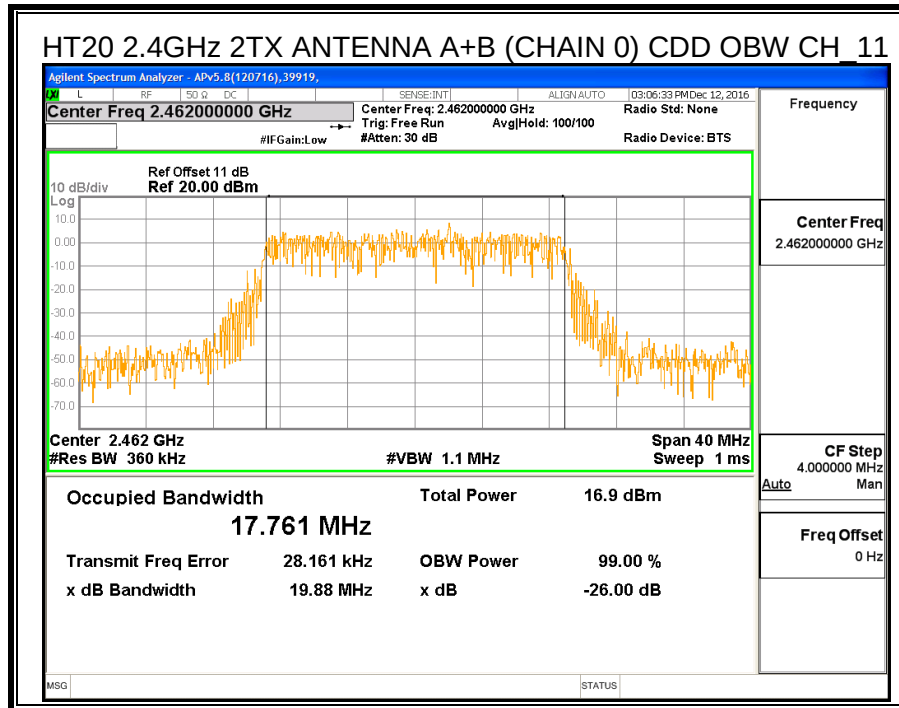
Channel	Frequency (MHz)	99% Bandwidth ANTENNA A (MHz)	99% Bandwidth ANTENNA B (MHz)
Low_1	2412	17.687	17.701
Low_2	2417	17.683	17.791
Middle_6	2437	17.827	17.702
High_10	2457	17.724	17.758
High_11	2462	17.761	17.730
High_12	2467	17.812	17.864
High_13	2472	17.751	17.720

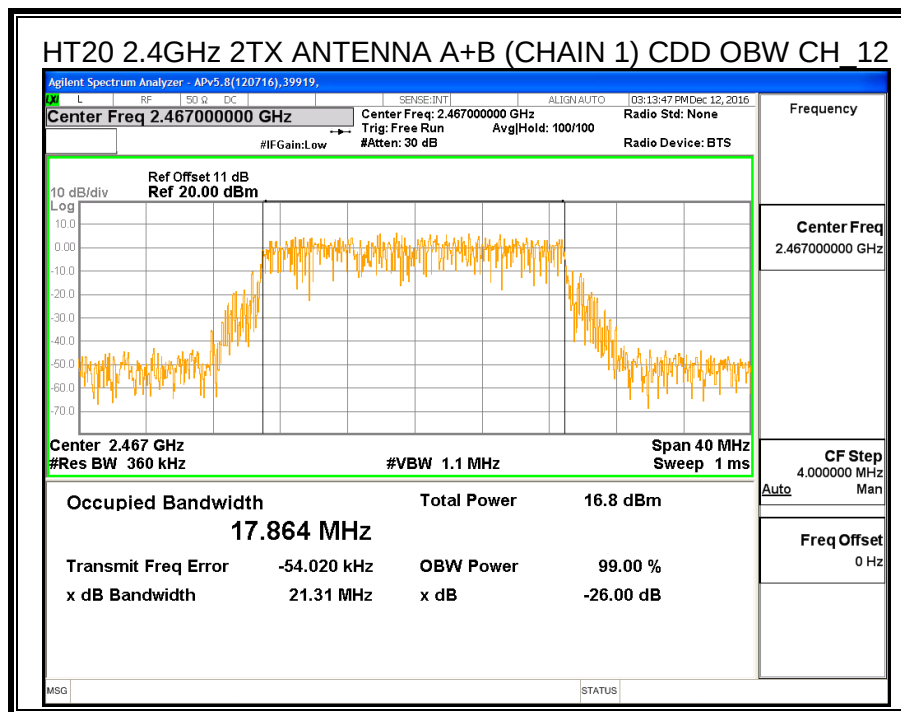
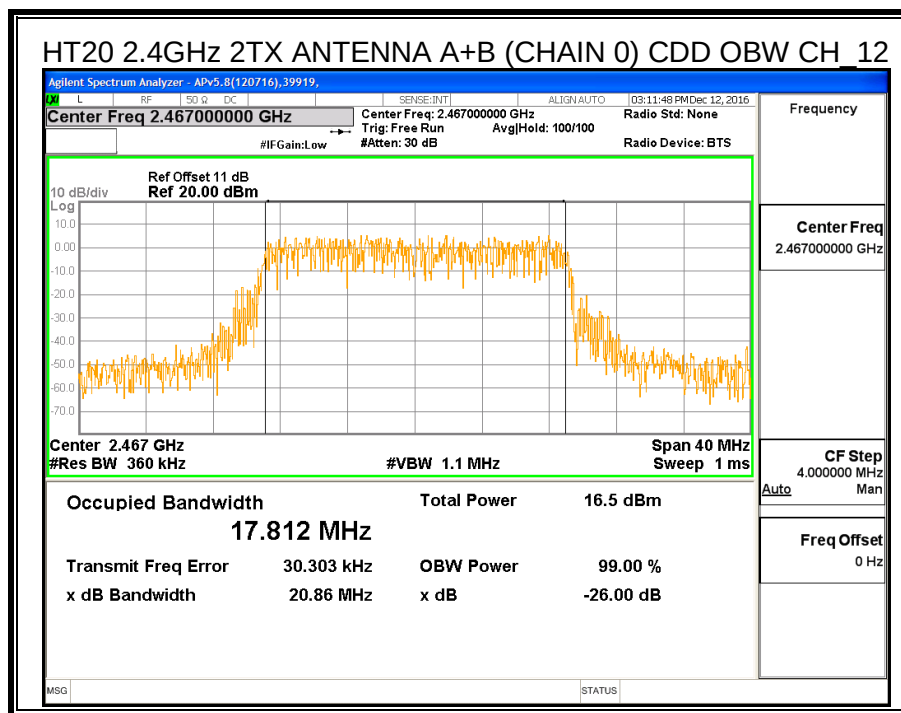


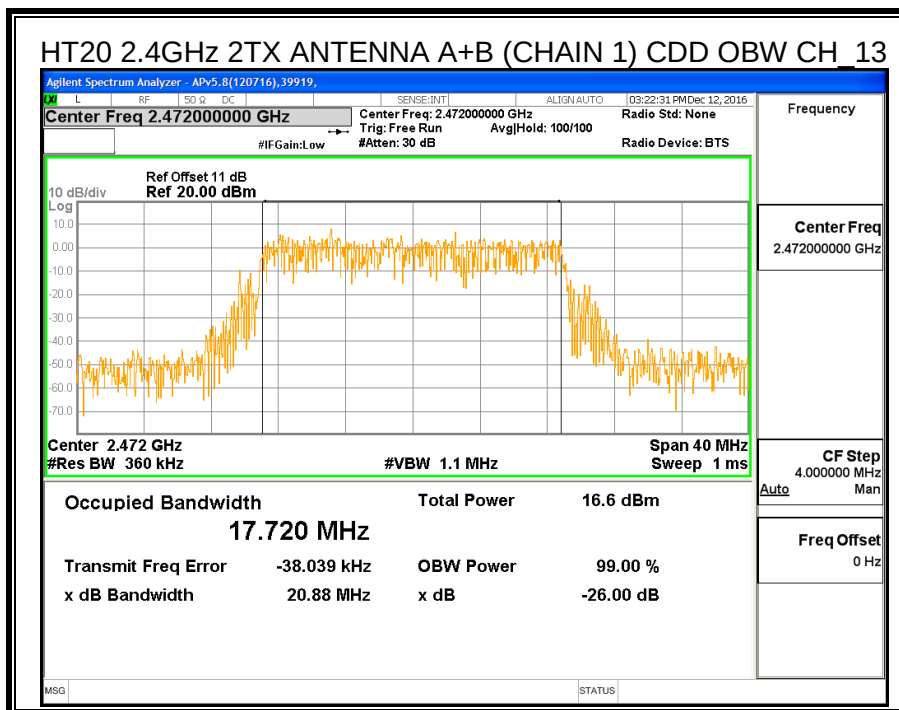
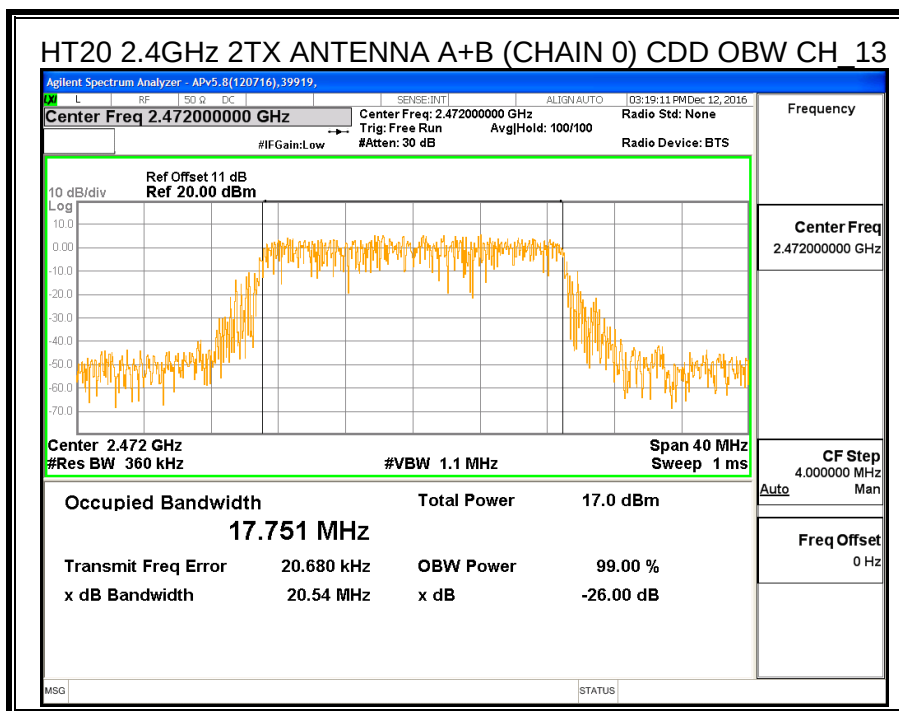












9.5.3. AVERAGE POWER

ID:	39004	Date:	01/21/17
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LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	Antenna A Power (dBm)	Antenna B Power (dBm)	Total Power (dBm)
Low_1	2412	13.46	13.48	16.48
Low_2	2417	16.77	16.83	19.81
Middle_6	2437	16.84	16.91	19.89
High_10	2457	16.95	16.97	19.97
High_11	2462	12.46	12.3	15.39
High_12	2467	10.3	10.31	13.32
High_13	2472	-0.22	-0.02	2.89

9.5.4. OUTPUT POWER

ID:	39004	Date:	01/21/17
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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

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

Antenna A Antenna Gain (dBi)	Antenna B Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
1.00	-0.01	0.52

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	0.52	30.00	30	36	30.00
Low_2	2417	0.52	30.00	30	36	30.00
Mid_6	2437	0.52	30.00	30	36	30.00
High_10	2457	0.52	30.00	30	36	30.00
High_11	2462	0.52	30.00	30	36	30.00
High_12	2467	0.52	30.00	30	36	30.00
High_13	2472	0.52	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)	Antenna A Meas Power (dBm)	Antenna B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margi (dB)
Low_1	2412	24.30	24.46	27.39	30.00	-2.61
Low_2	2417	25.87	26.10	29.00	30.00	-1.00
Mid_6	2437	25.96	26.22	29.10	30.00	-0.90
High_10	2457	25.90	26.17	29.05	30.00	-0.95
High_11	2462	22.34	22.92	25.65	30.00	-4.35
High_12	2467	20.31	20.83	23.59	30.00	-6.41
High_13	2472	9.67	10.47	13.10	30.00	-16.90

9.5.5. POWER SPECTRAL DENSITY

LIMITS

FCC §15.247

IC RSS-247 (5.2) (2)

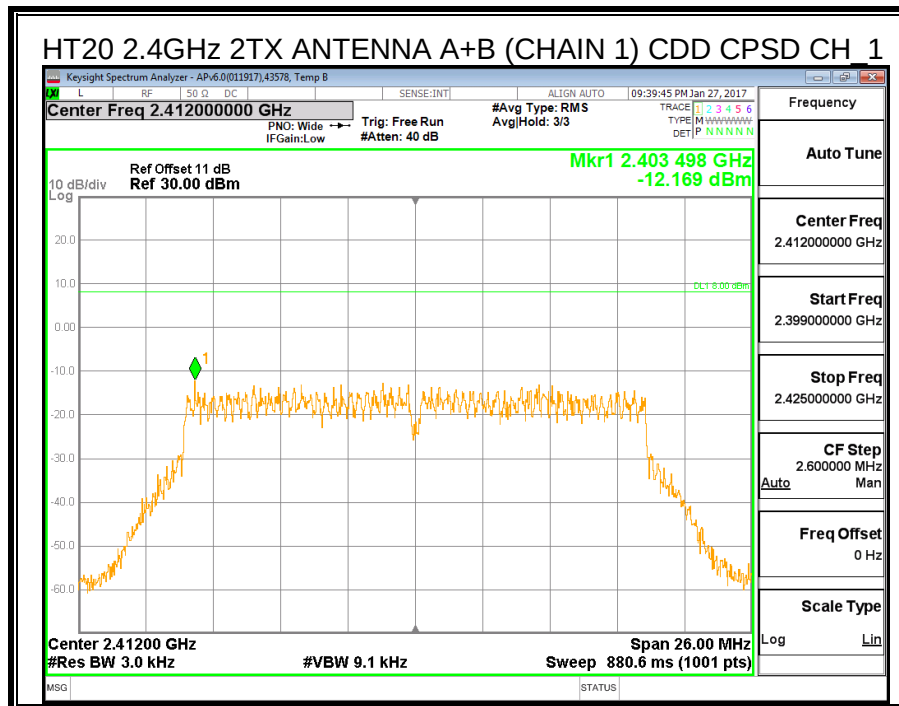
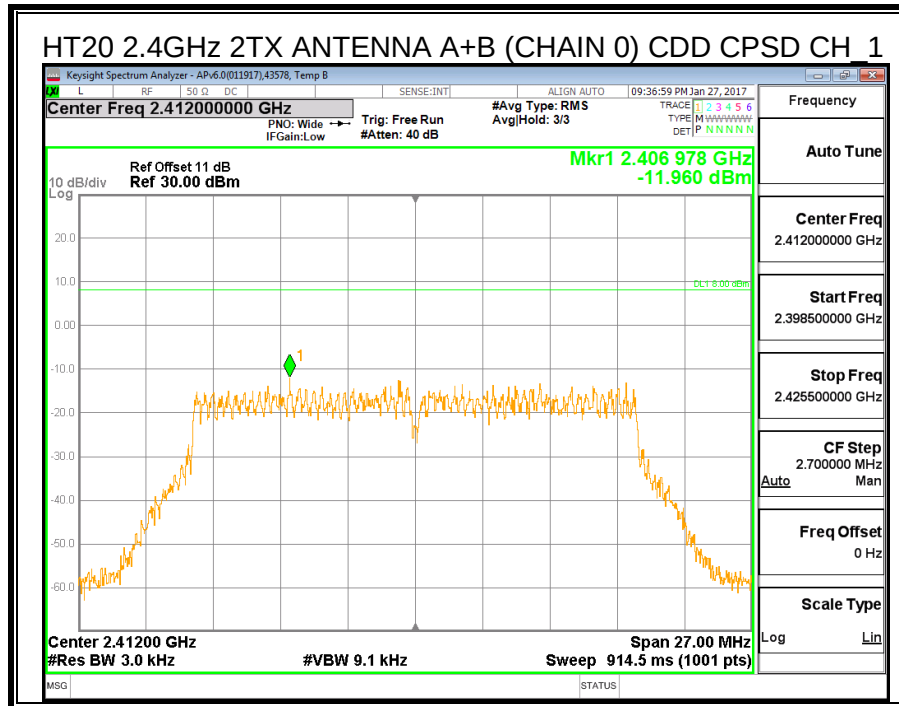
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 KHz band during any time interval of continuous transmissions.

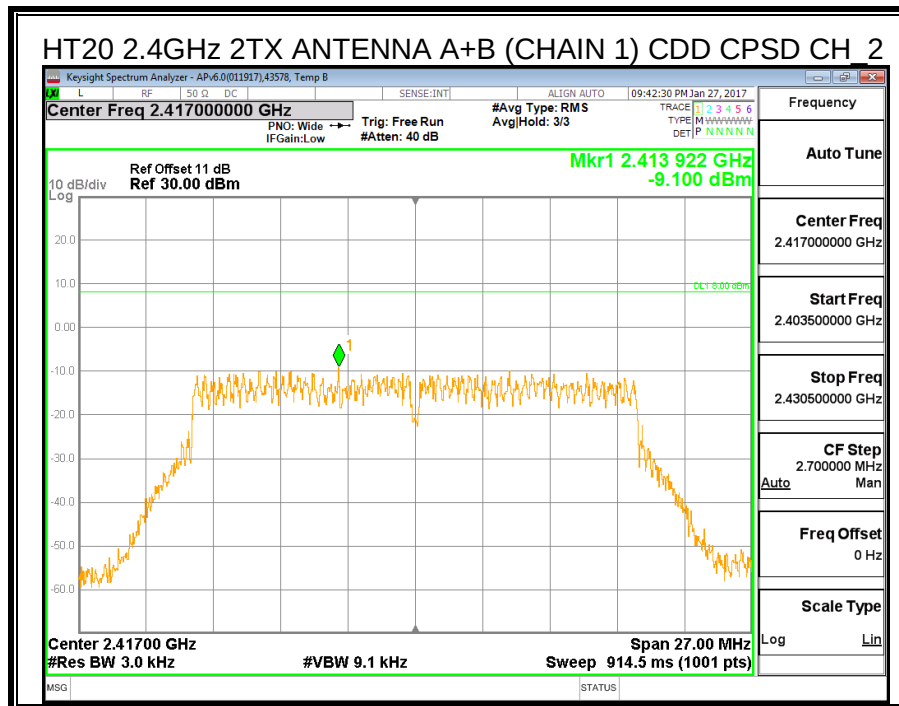
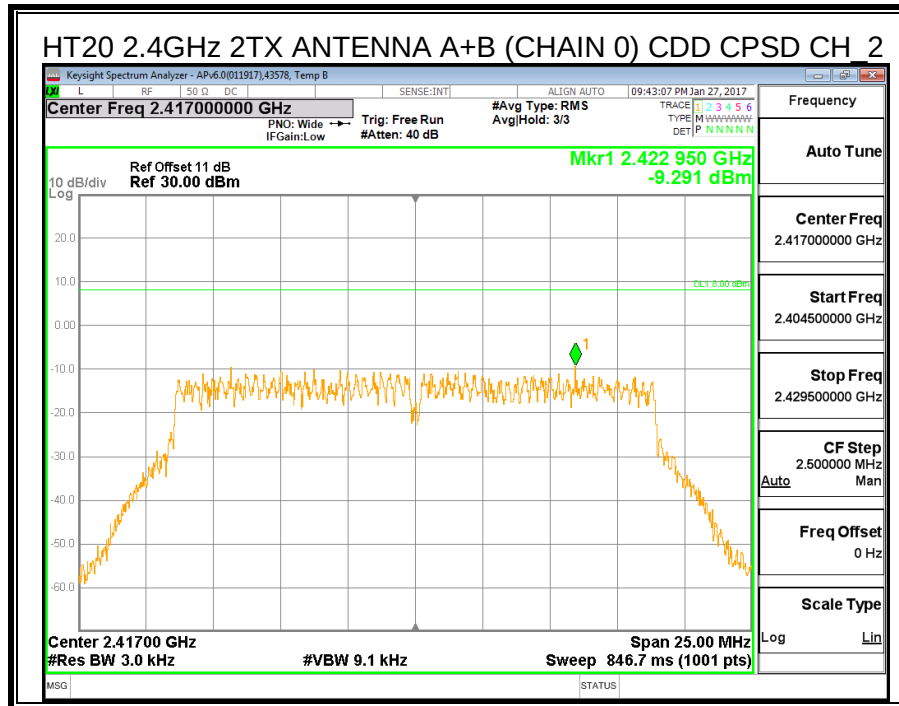
RESULTS

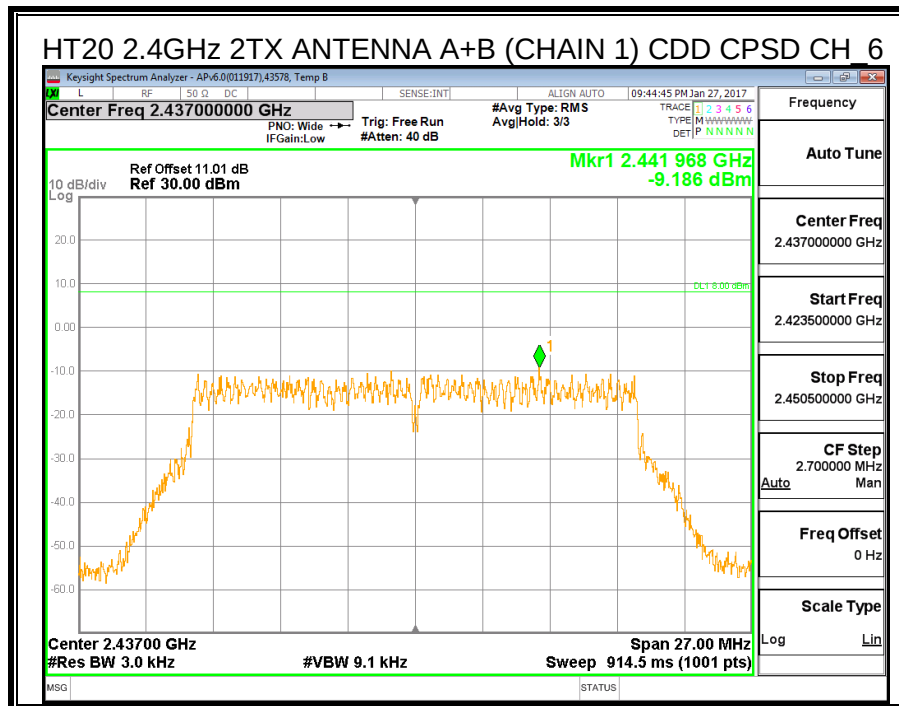
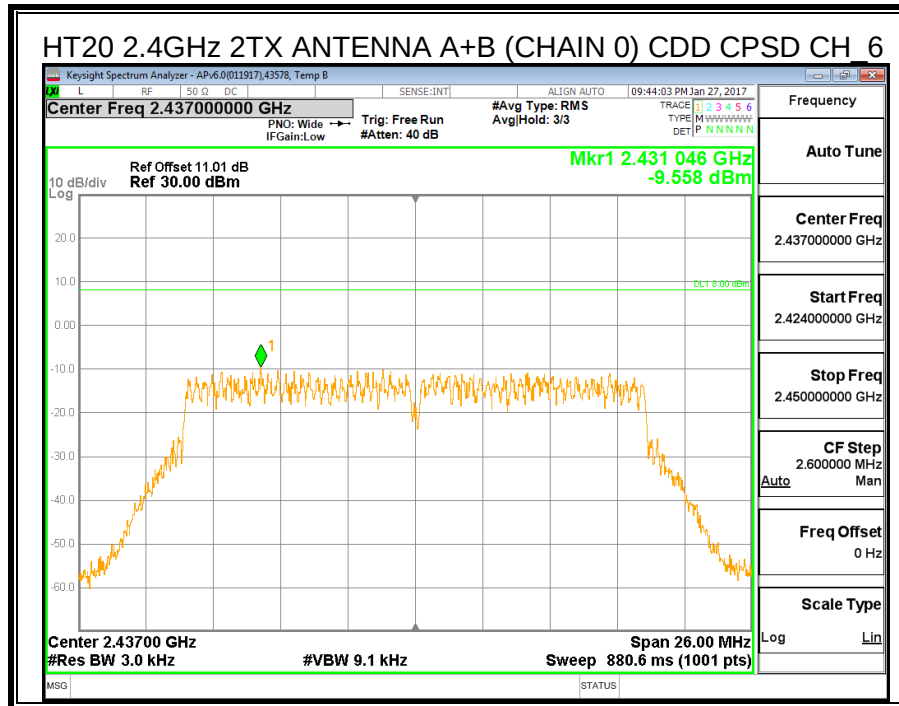
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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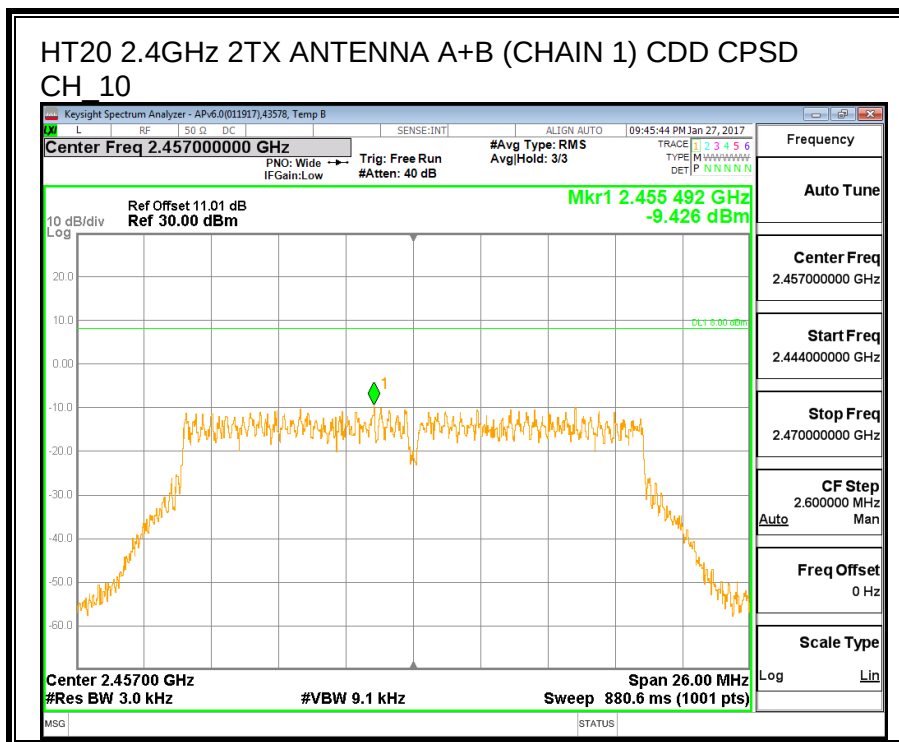
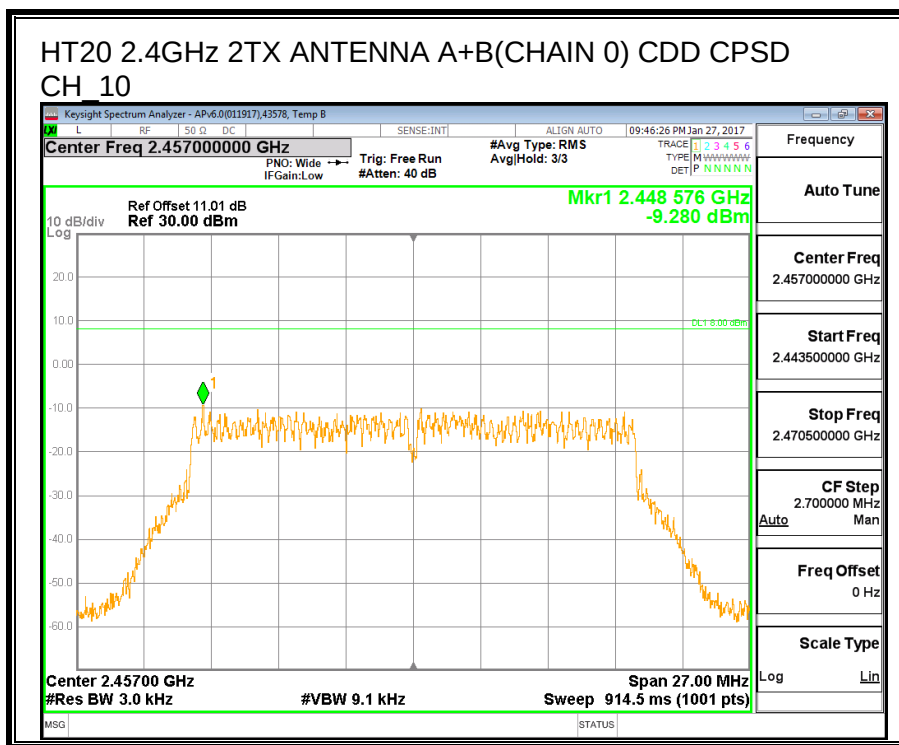
PSD Results

Channel	Frequency (MHz)	Antenna A Meas (dBm)	Antenna B Meas (dBm)	Total Corr'd PSD (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-11.960	-12.169	-9.05	8.0	-17.1
Low_2	2417	-9.291	-9.100	-6.18	8.0	-14.2
Mid	2437	-9.558	-9.186	-6.36	8.0	-14.4
High_10	2457	-9.280	-9.426	-6.34	8.0	-14.3
High_11	2462	-13.913	-13.425	-10.65	8.0	-18.7
High_12	2467	-15.838	-16.023	-12.92	8.0	-20.9
High_13	2472	-25.780	-24.770	-22.24	8.0	-30.2

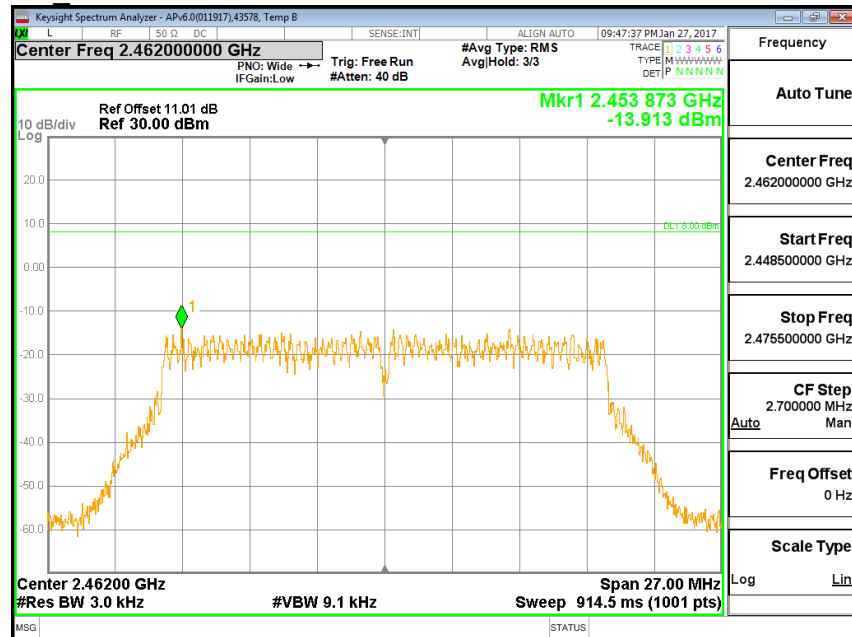




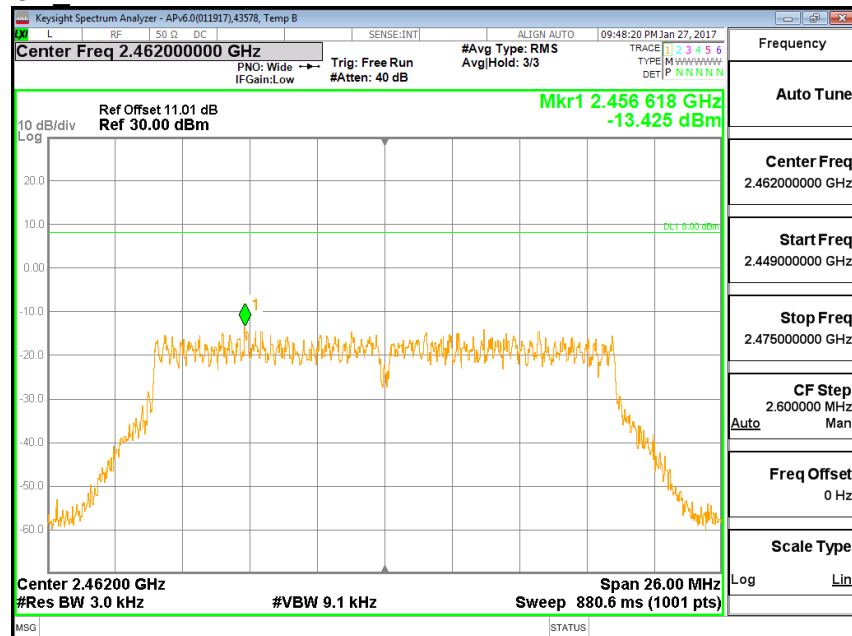


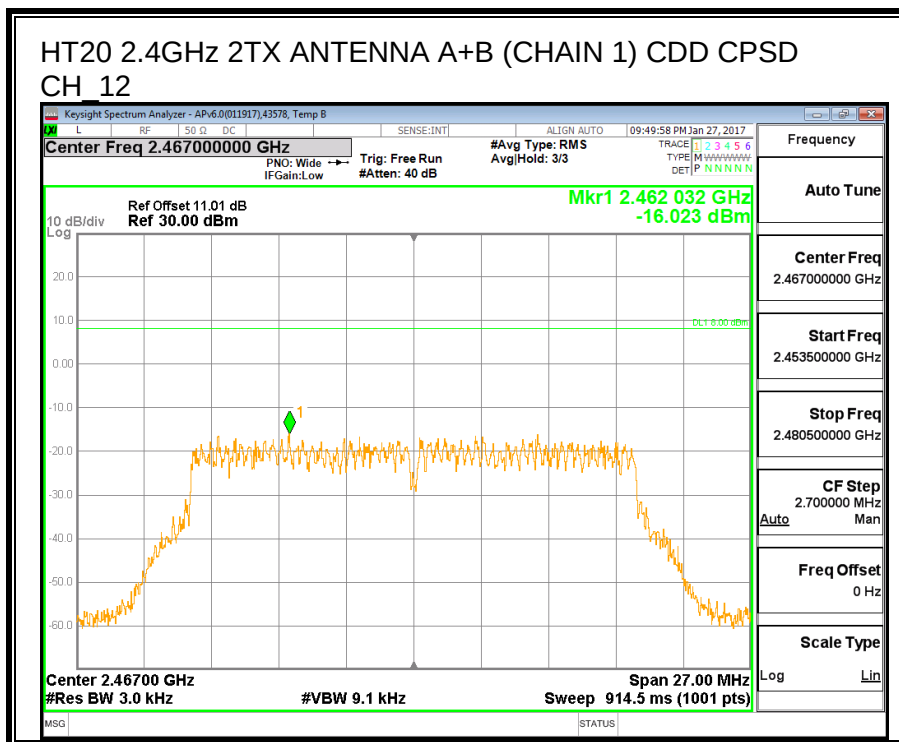
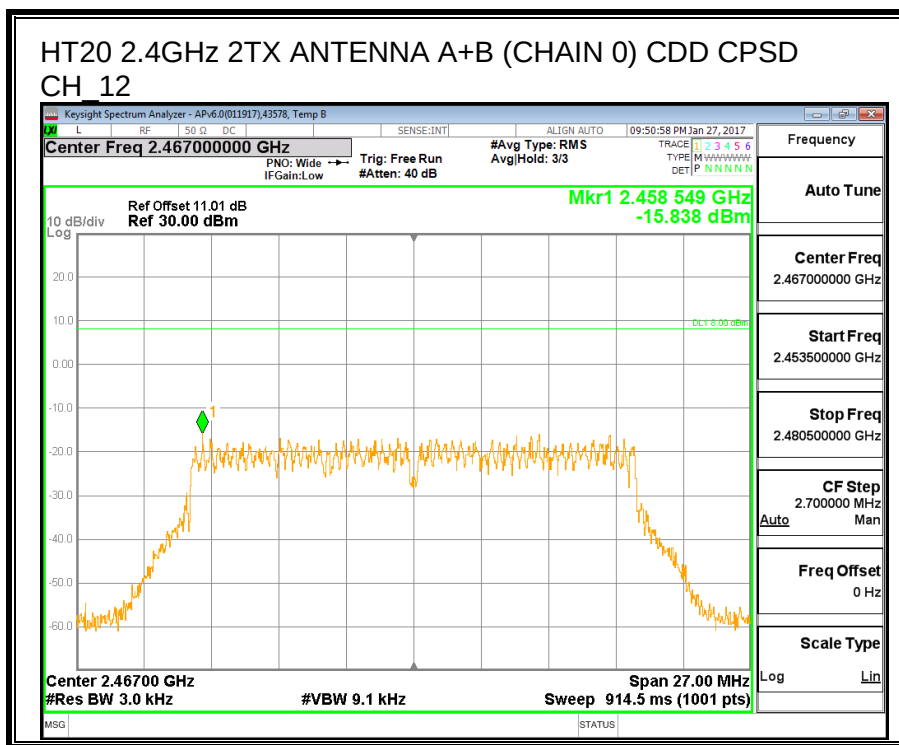


HT20 2.4GHz 2TX ANTENNA A+B (CHAIN 0) CDD CPD
CH 11

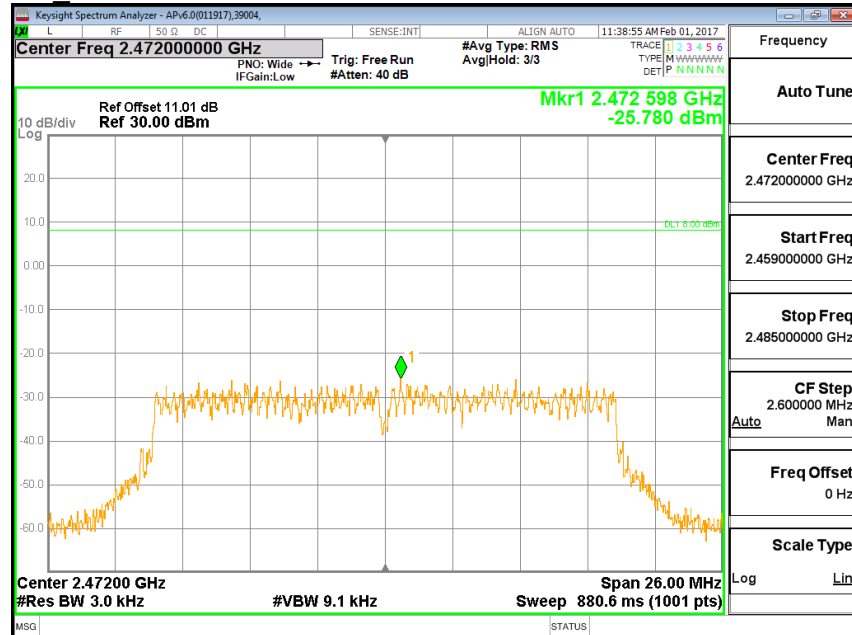


HT20 2.4GHz 2TX ANTENNA A+B (CHAIN 1) CDD CPD
CH 11

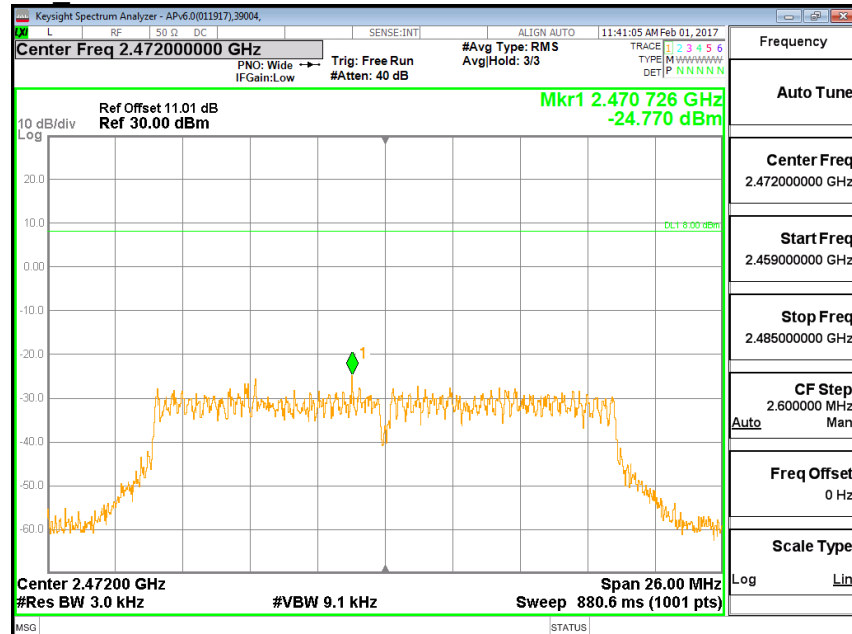




HT20 2.4GHz 2TX ANTENNA A+B (CHAIN 0) CDD CPD
CH 13



HT20 2.4GHz 2TX ANTENNA A+B (CHAIN 1) CDD CPD
CH 13



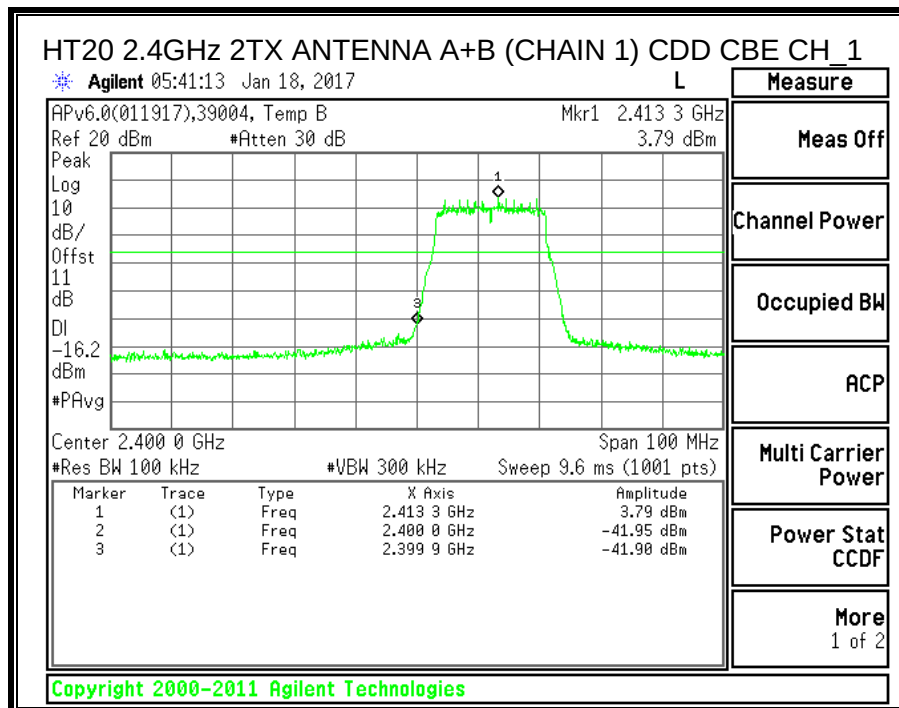
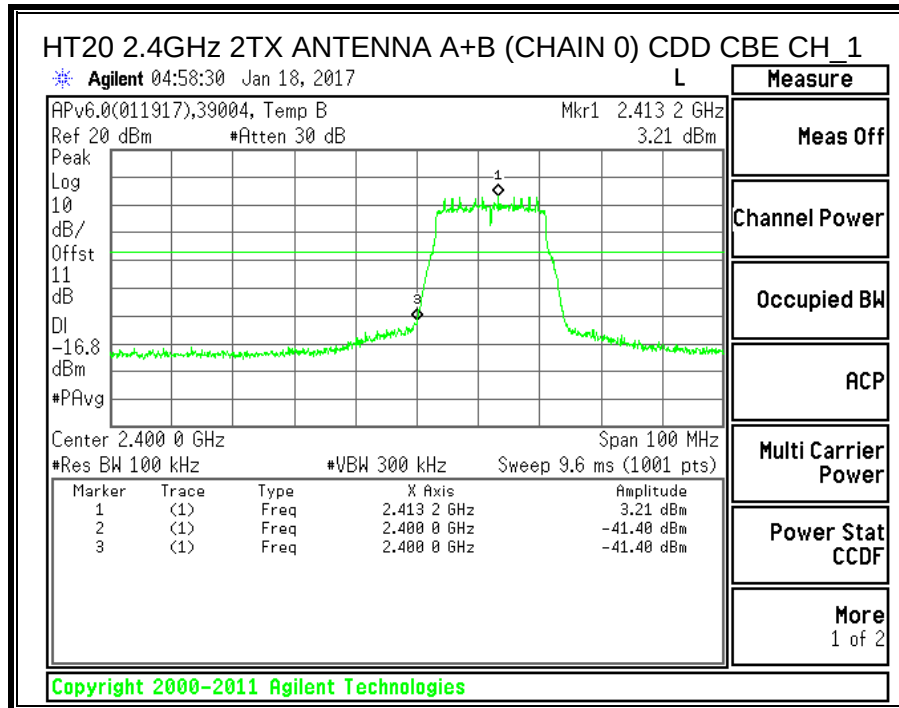
9.5.6. CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS

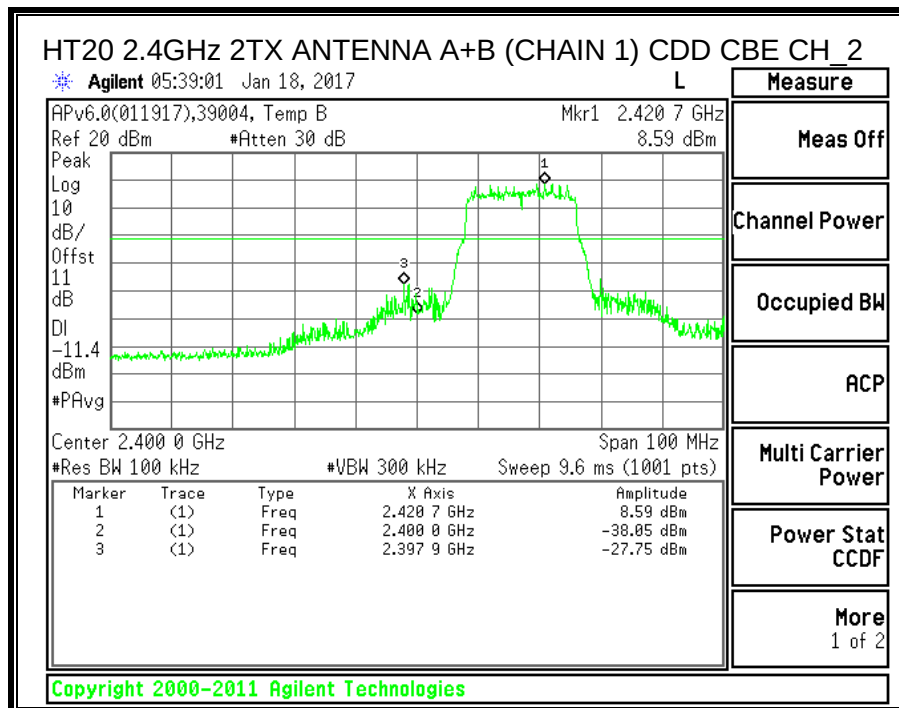
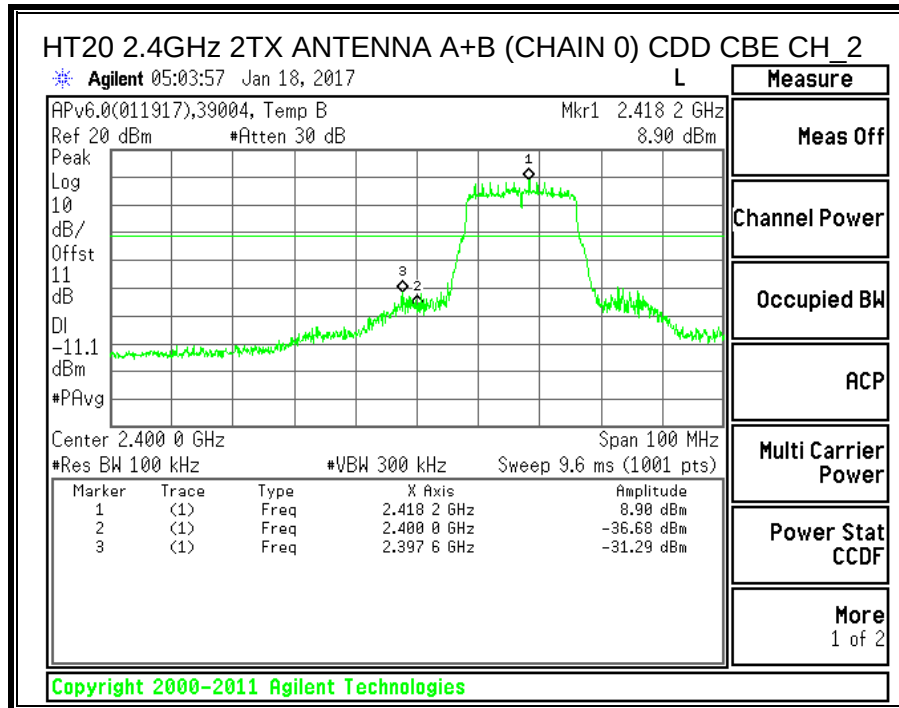
LIMITS

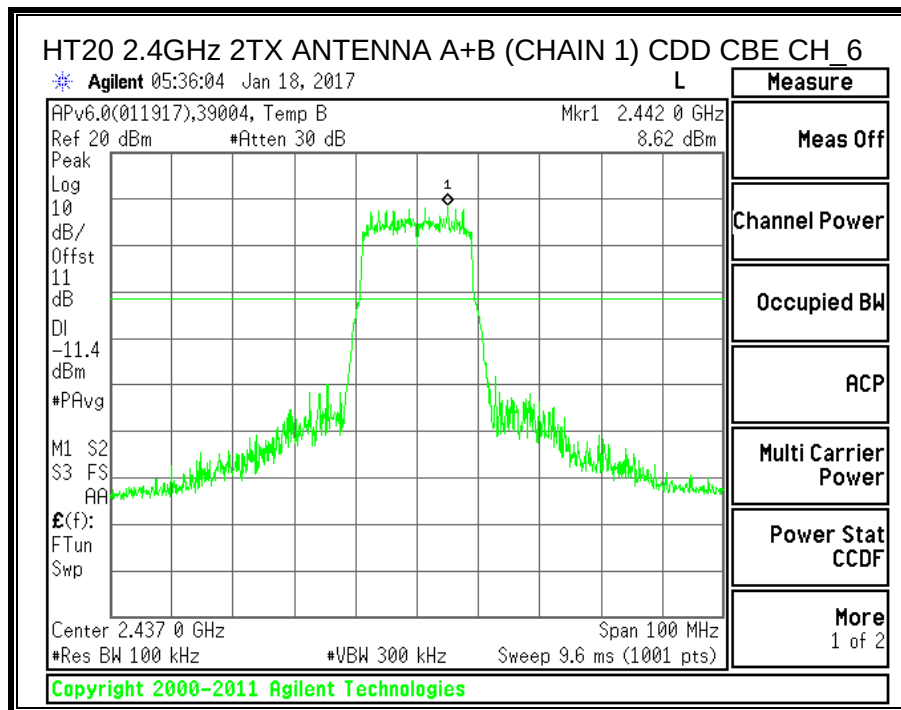
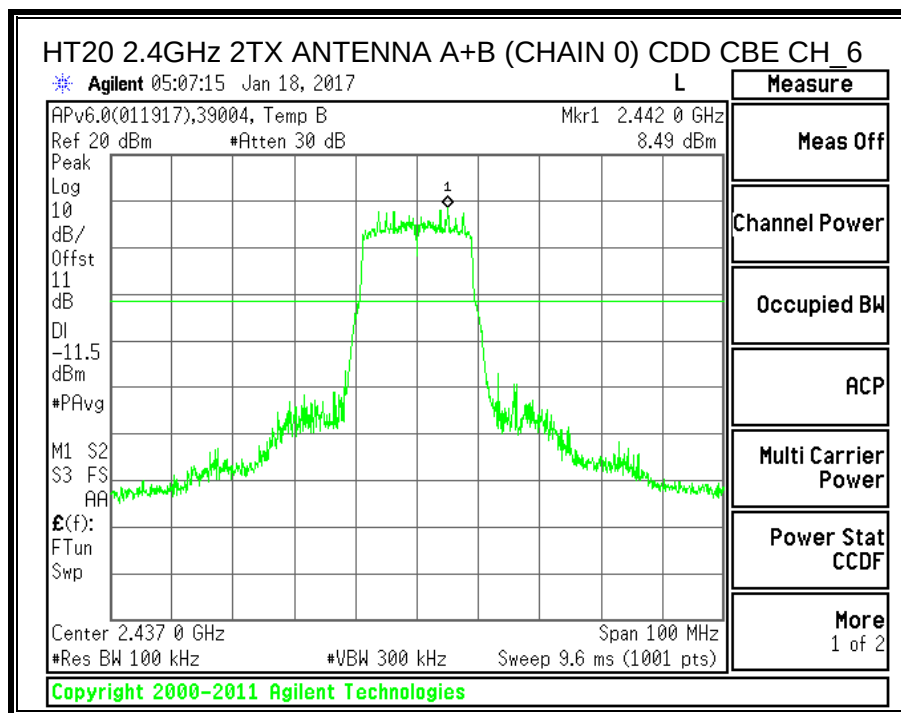
FCC §15.247 (d)

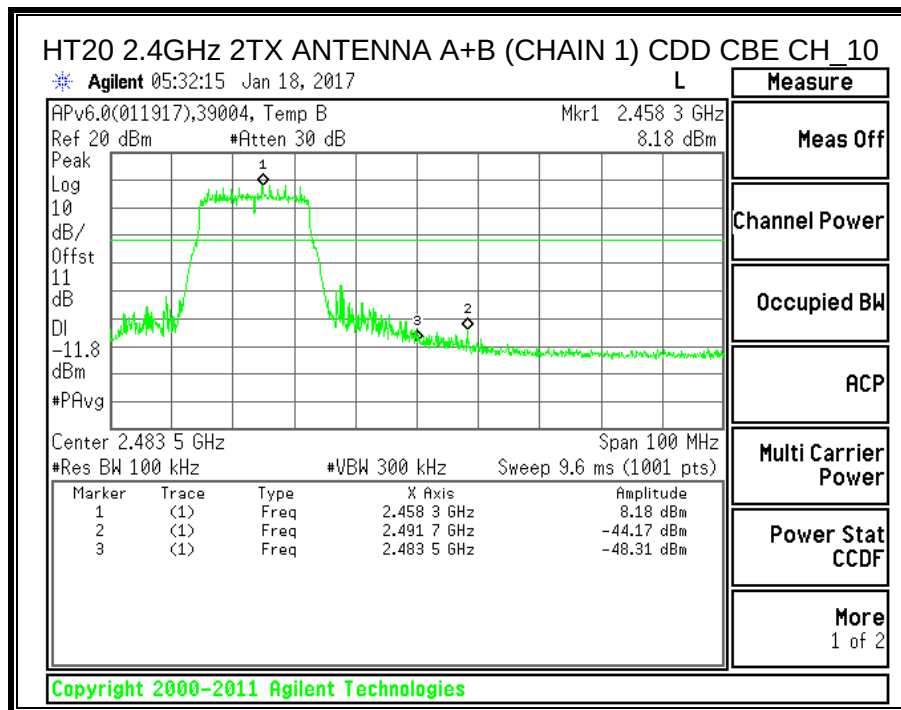
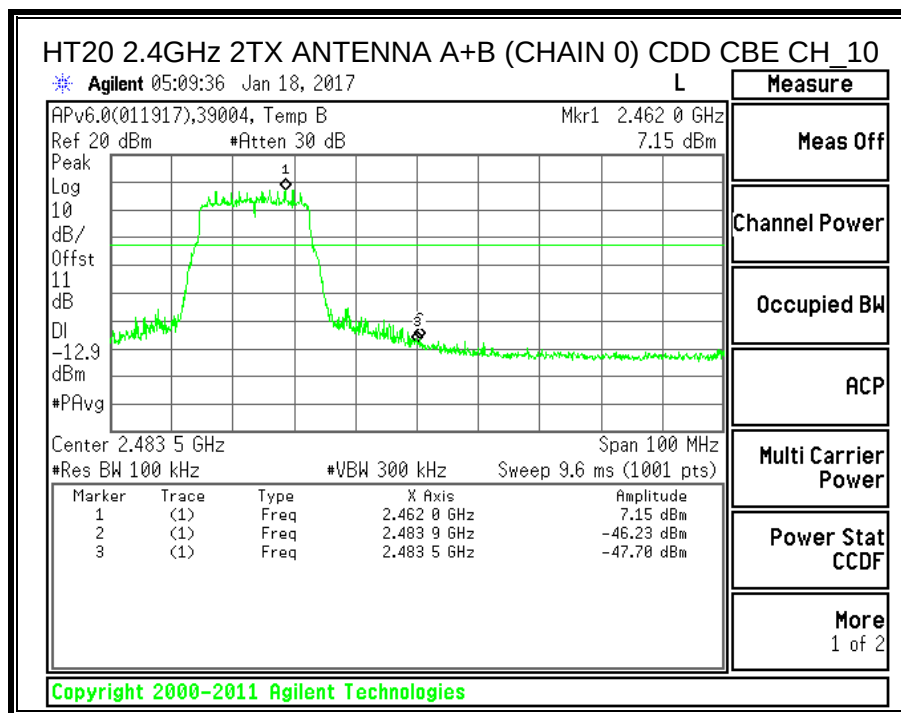
IC RSS-247 (5.5)

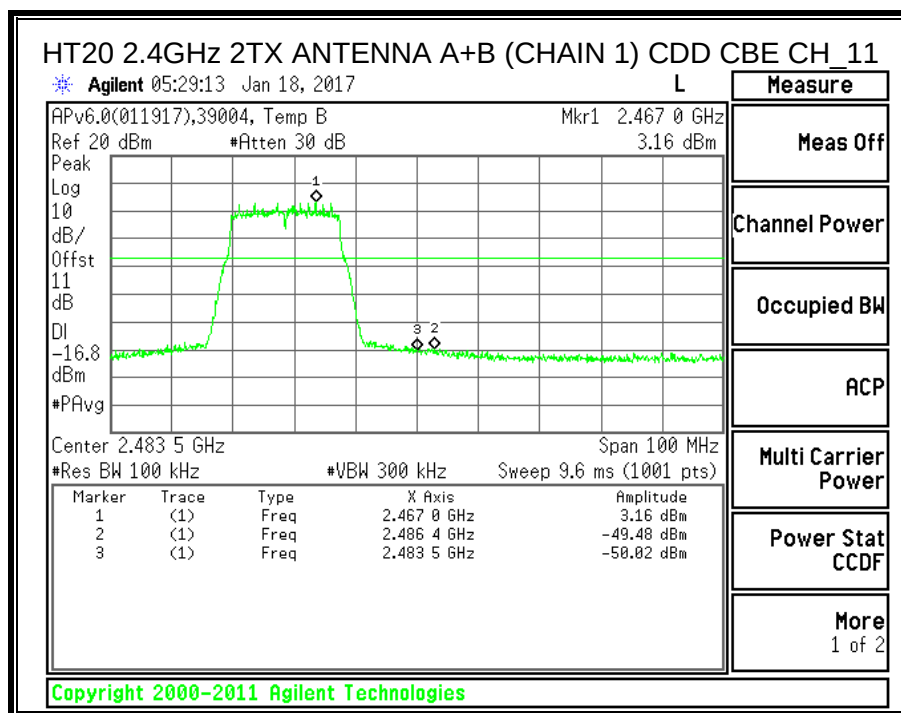
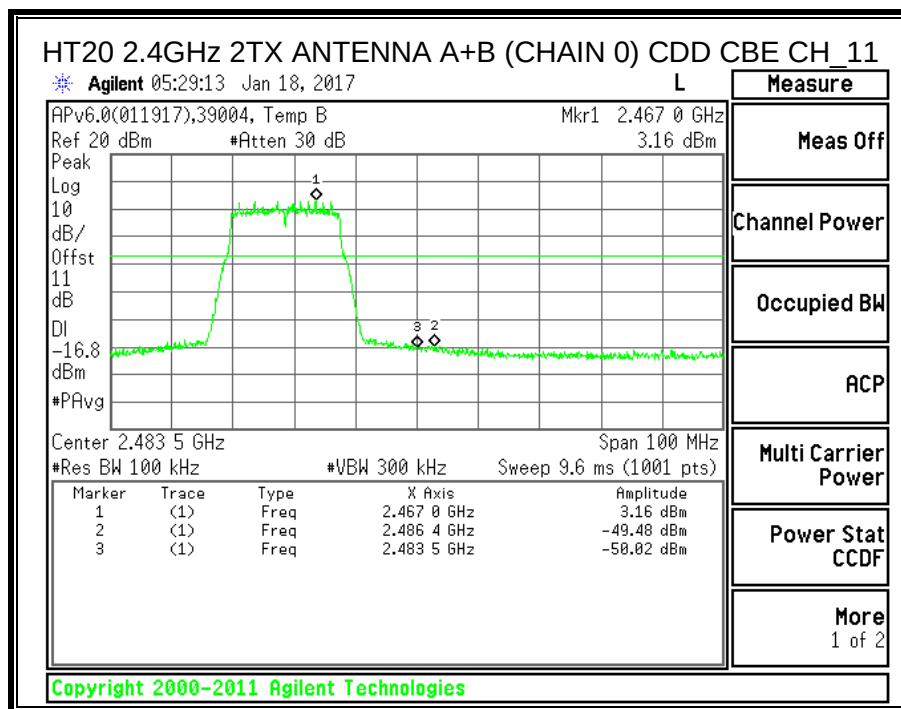
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the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

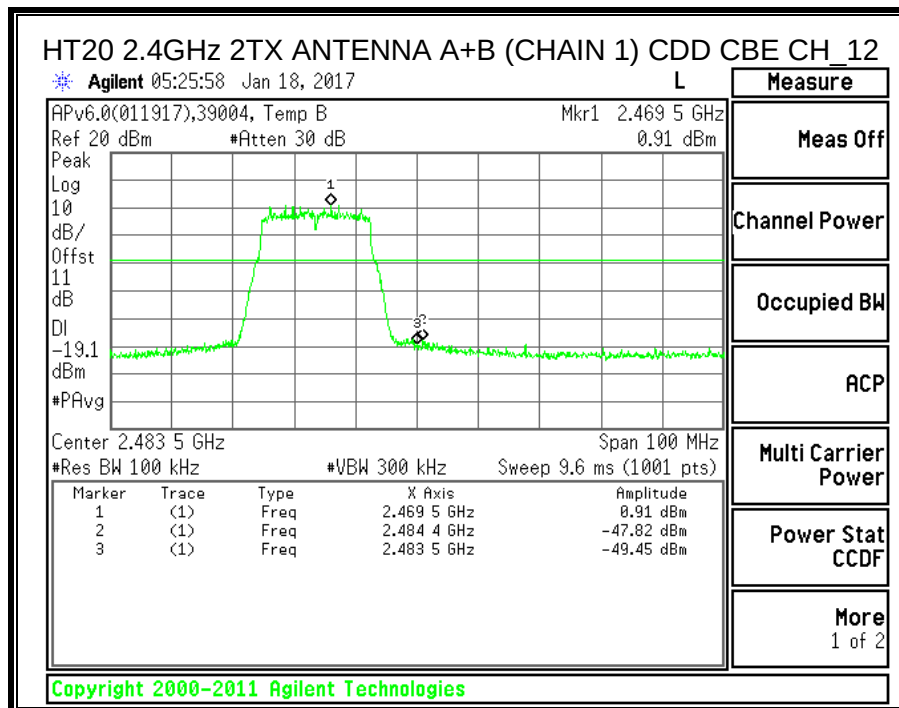
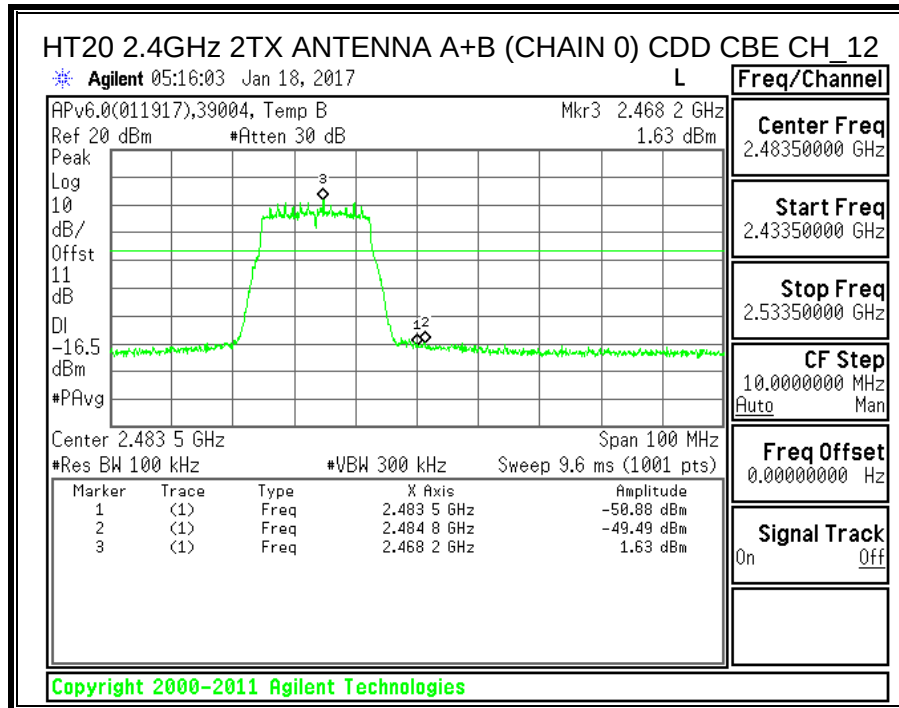


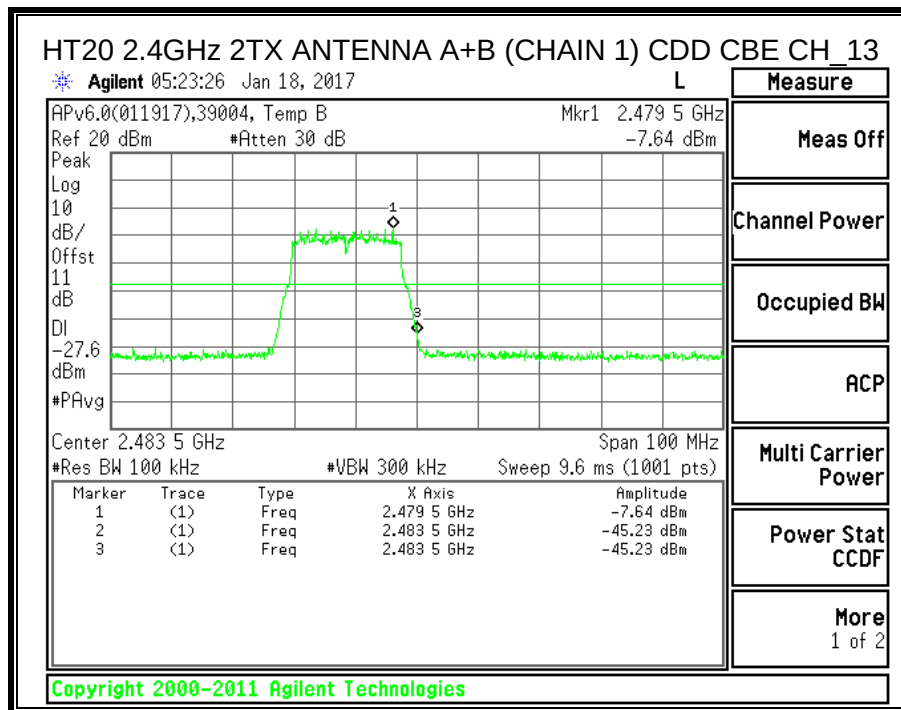
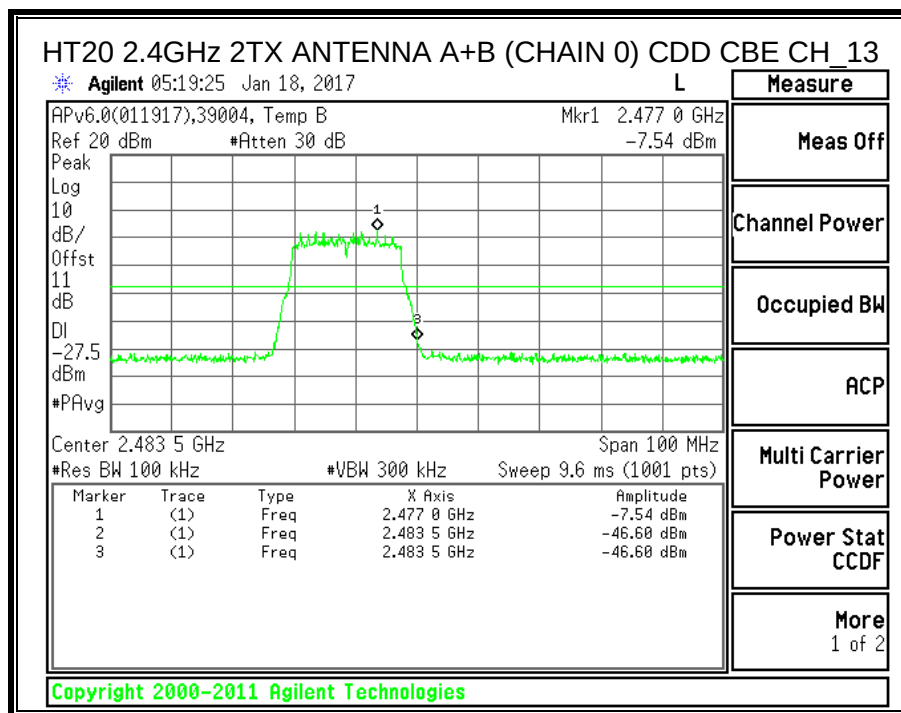


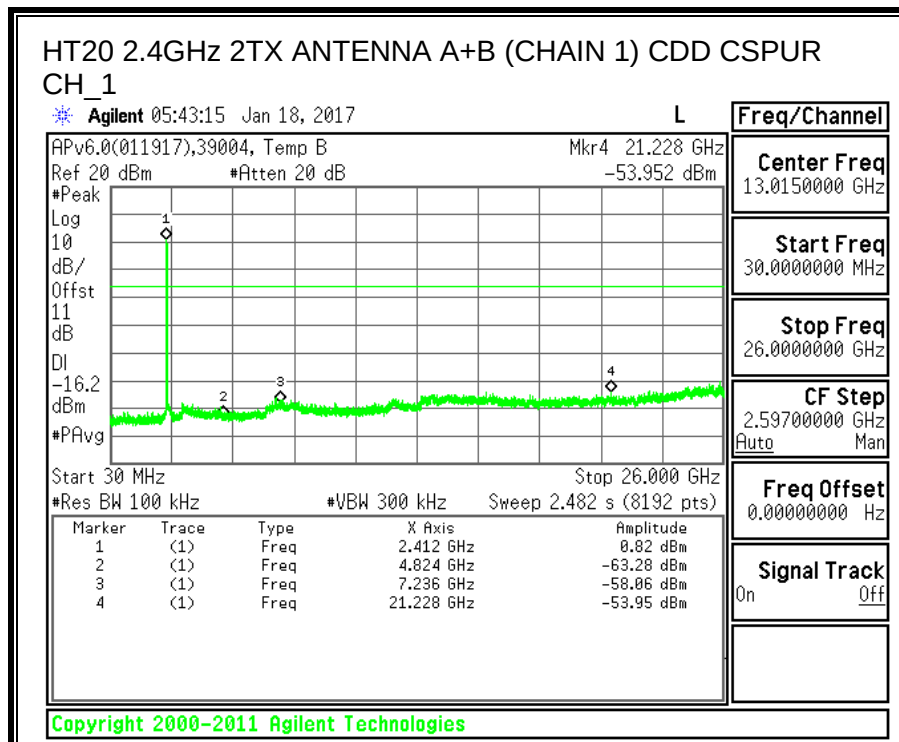
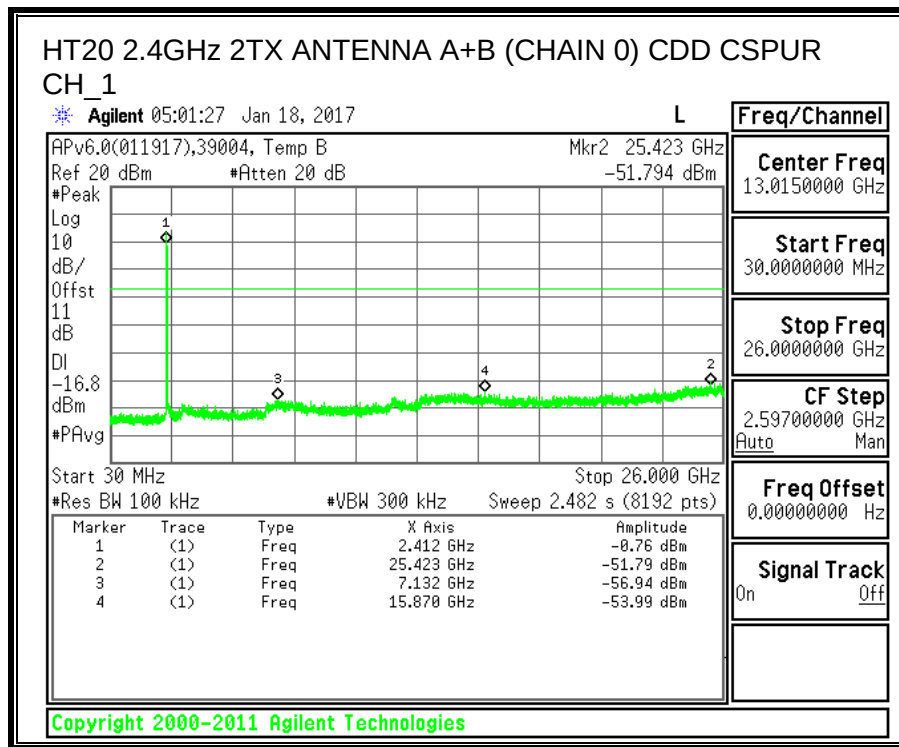


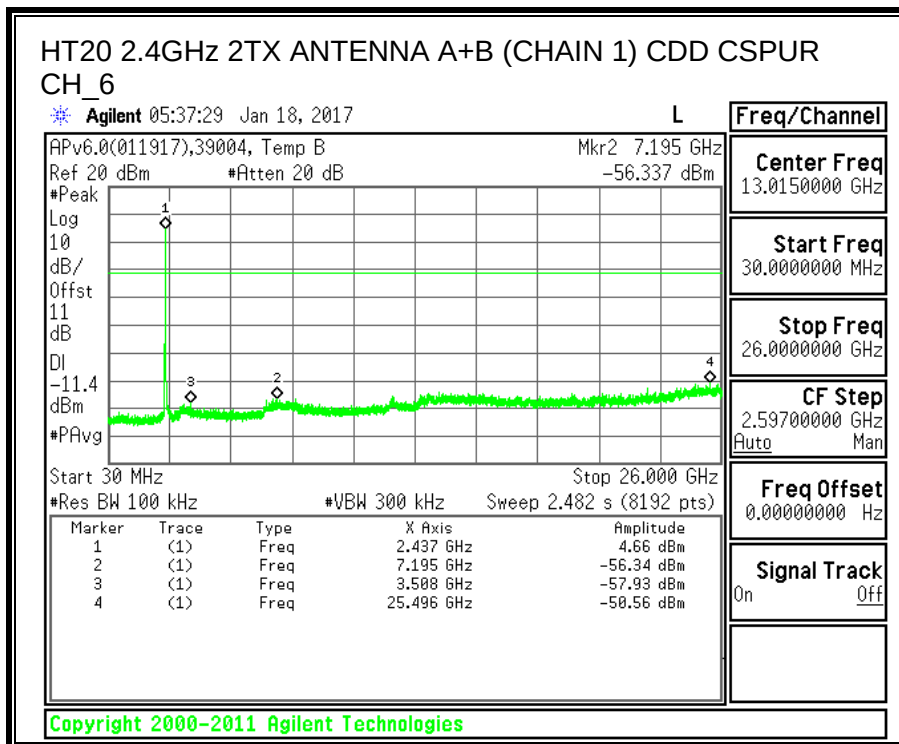
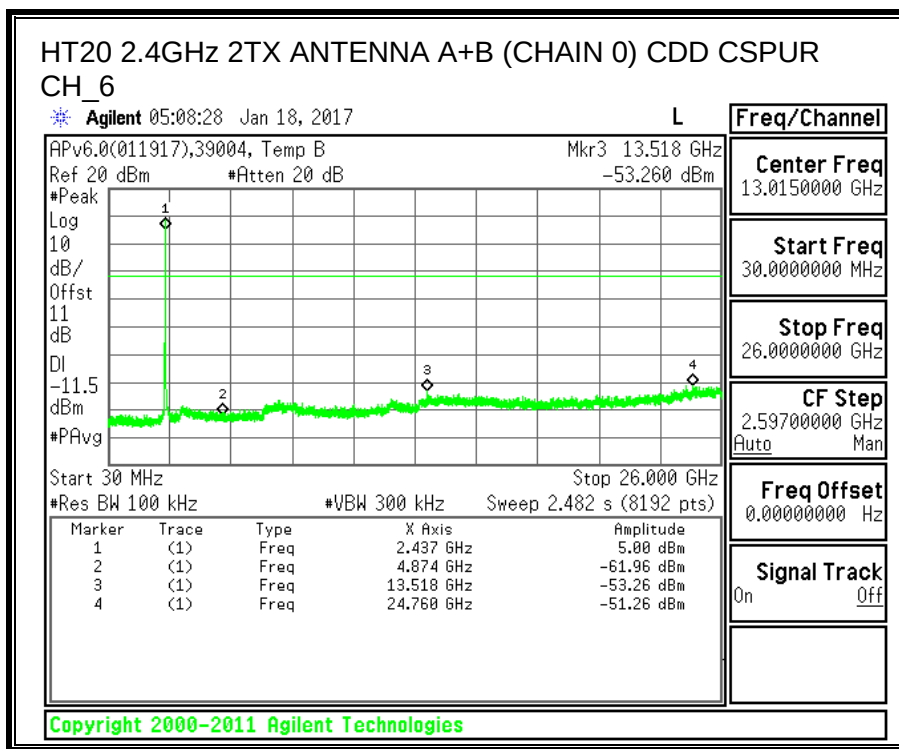


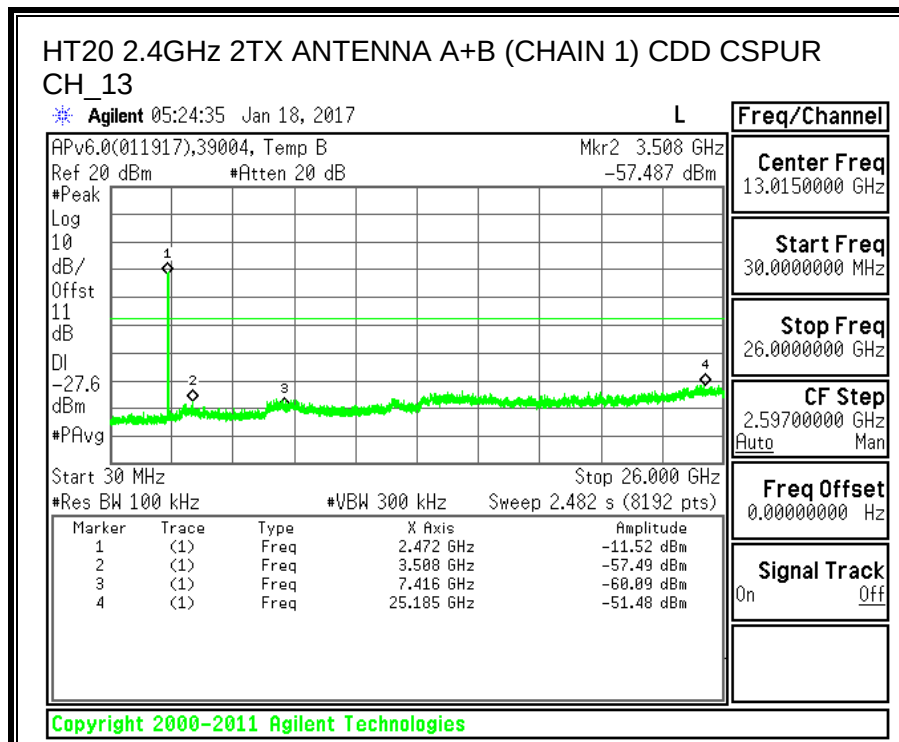
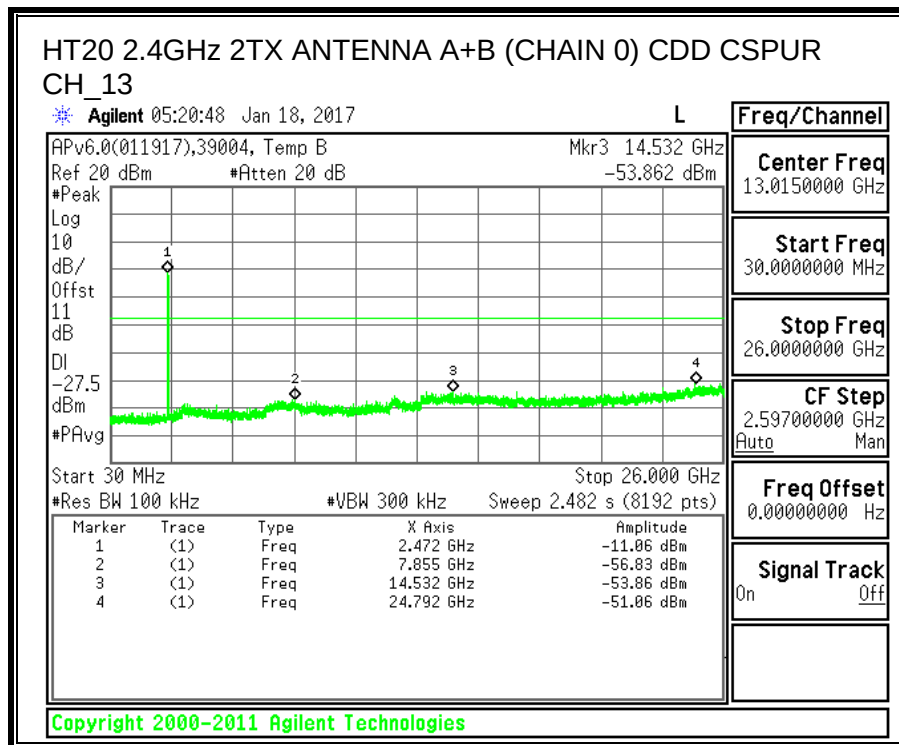












10. RADIATED TEST RESULTS

10.1. 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.

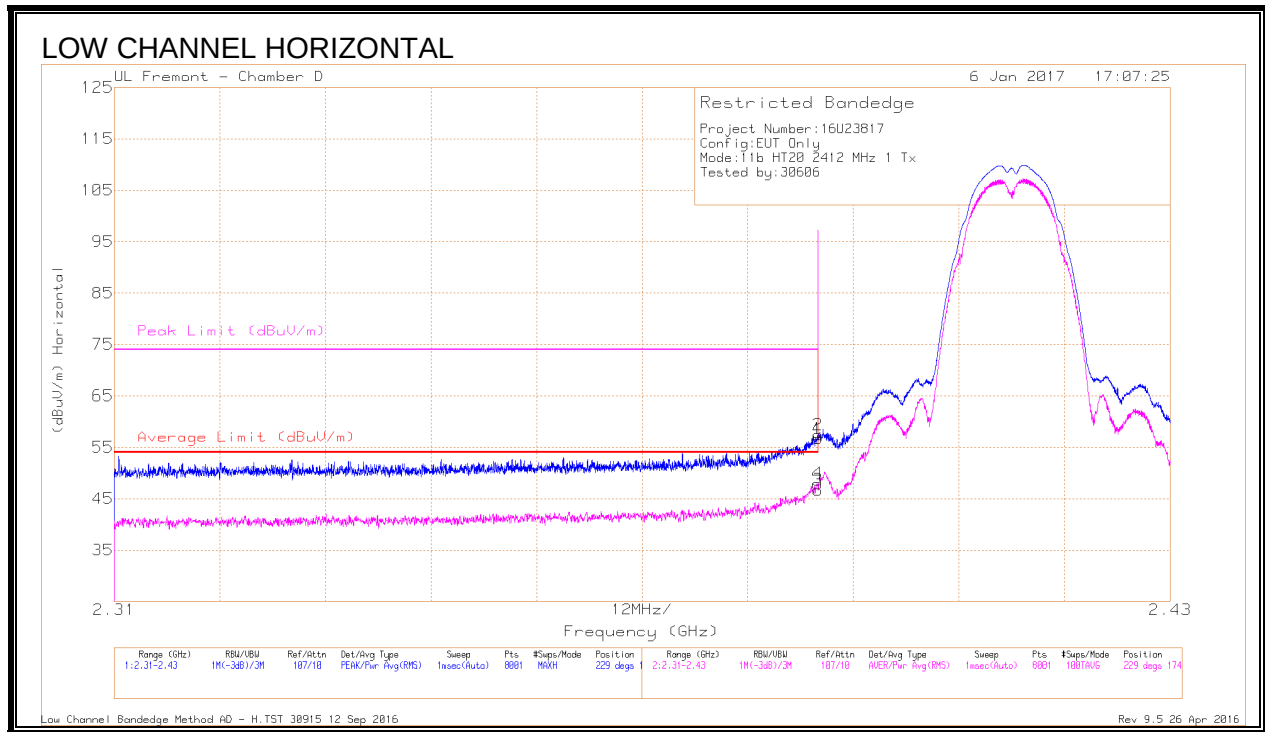
For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

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

10.2. TRANSMITTER ABOVE 1 GHz

10.2.1. 11b ANTENNA A SISO MODE IN THE 2.4GHz BAND

AUTHORIZED BANDEDGE (LOW CHANNEL, CH 1)



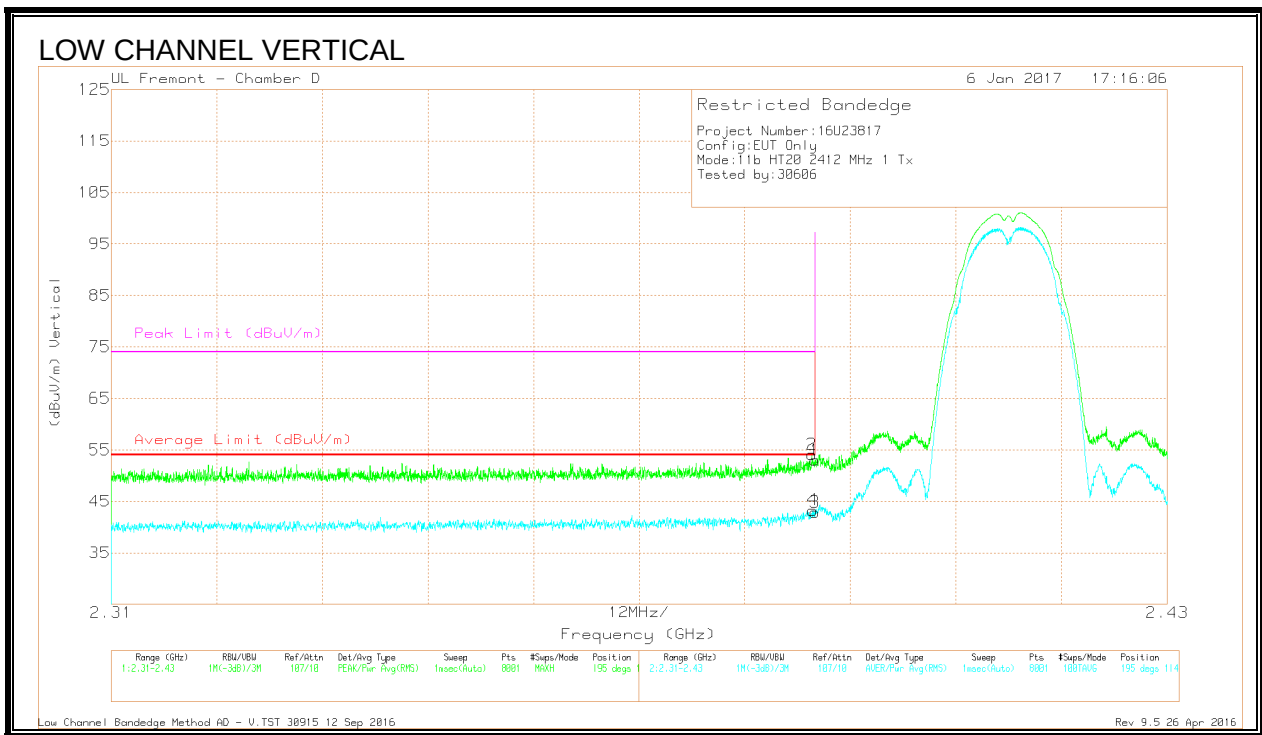
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cb l/Filtr/Pa d (dB)	Correct ed Readin g (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	45.25	Pk	32.1	-20.7	56.65	-	-	74	-17.35	229	174	H
2	* 2.39	46	Pk	32.1	-20.7	57.4	-	-	74	-16.6	229	174	H
3	* 2.39	35.29	RMS	32.1	-20.7	46.69	54	-7.31	-	-	229	174	H
4	* 2.39	36.52	RMS	32.1	-20.7	47.92	54	-6.08	-	-	229	174	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

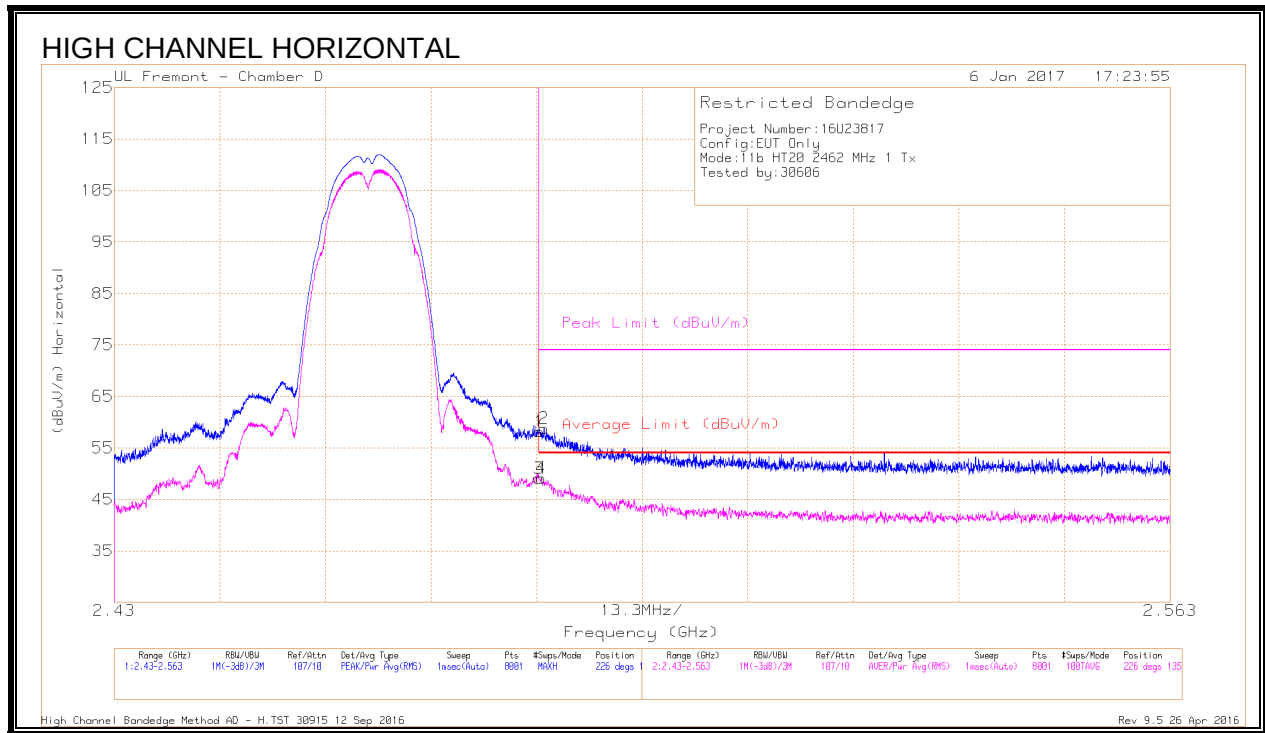
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.62	Pk	32.1	-20.7	53.02	-	-	74	-20.98	195	114	V
2	* 2.39	42.78	Pk	32.1	-20.8	54.08	-	-	74	-19.92	195	114	V
3	* 2.39	31.49	RMS	32.1	-20.7	42.89	54	-11.11	-	-	195	114	V
4	* 2.39	32	RMS	32.1	-20.8	43.3	54	-10.7	-	-	195	114	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 11)



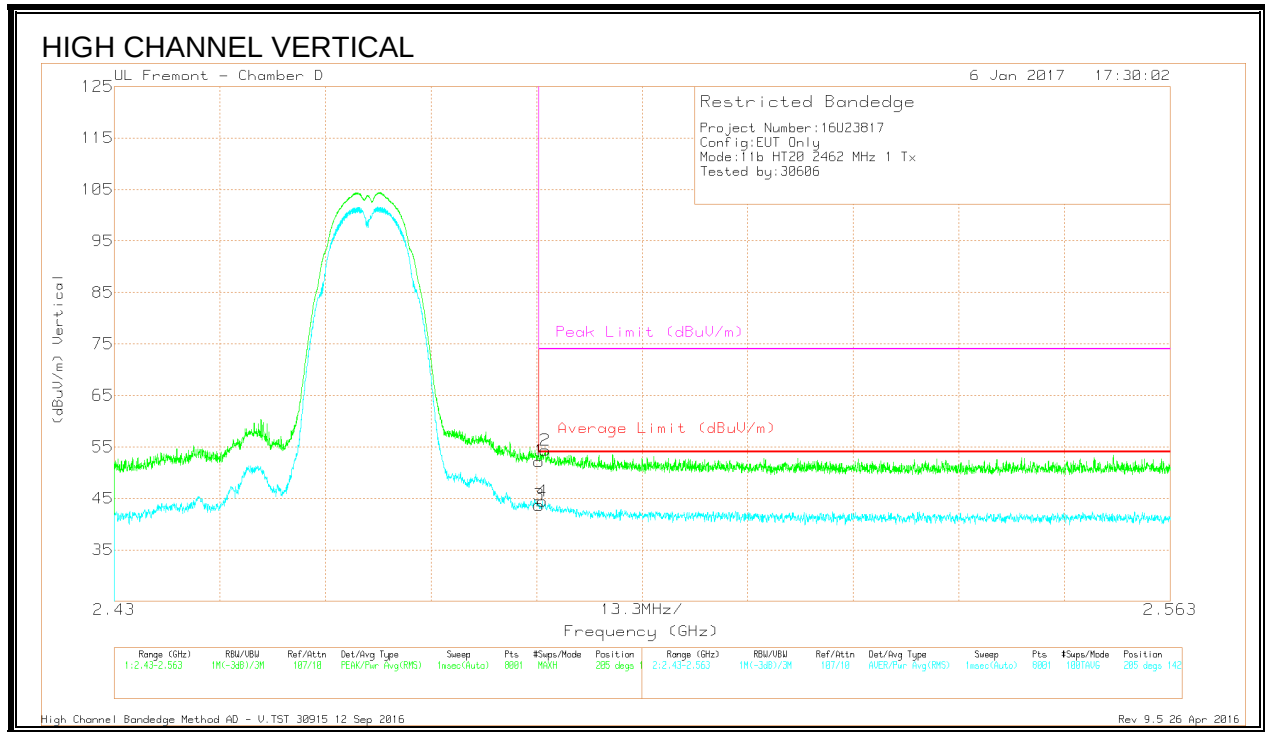
Trace Markers

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	46.66	Pk	32.3	-20.8	58.16	-	-	74	-15.84	226	135	H
2	* 2.484	47.27	Pk	32.3	-20.8	58.77	-	-	74	-15.23	226	135	H
3	* 2.484	37.58	RMS	32.3	-20.8	49.08	54	-4.92	-	-	226	135	H
4	* 2.484	37.62	RMS	32.3	-20.8	49.12	54	-4.88	-	-	226	135	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

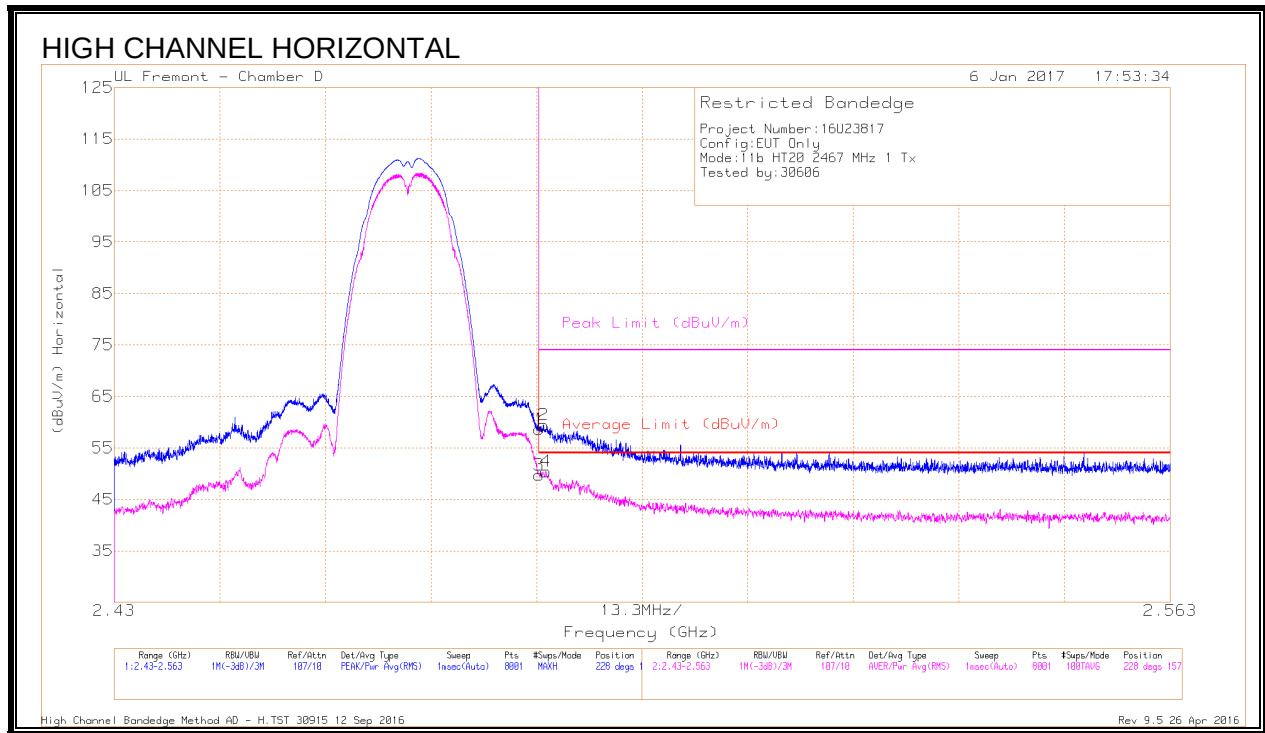
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl /Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.71	Pk	32.3	-20.8	52.21	-	-	74	-21.79	205	142	V
2	* 2.484	42.84	Pk	32.3	-20.8	54.34	-	-	74	-19.66	205	142	V
3	* 2.484	32.18	RMS	32.3	-20.8	43.68	54	-10.32	-	-	205	142	V
4	* 2.484	32.94	RMS	32.3	-20.8	44.44	54	-9.56	-	-	205	142	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 12)



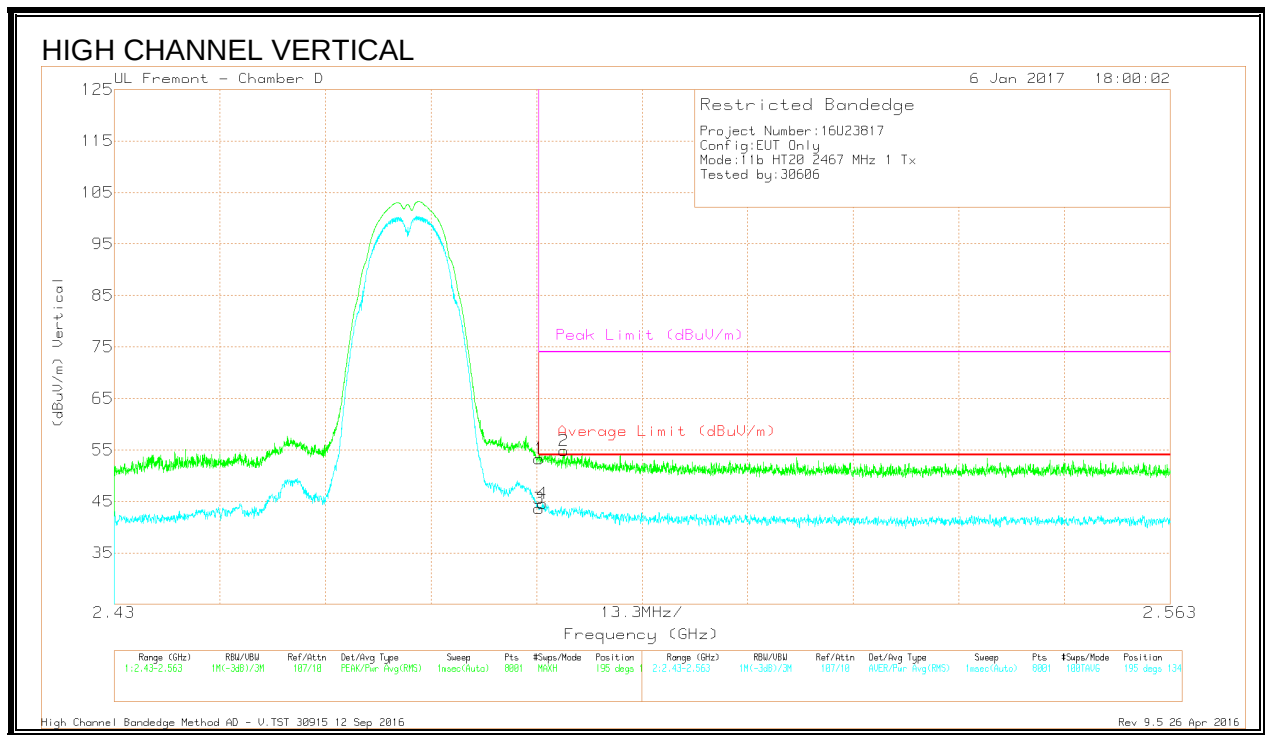
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl /Ftr/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	47.13	Pk	32.3	-20.8	58.63	-	-	74	-15.37	228	157	H
2	* 2.484	47.95	Pk	32.3	-20.8	59.45	-	-	74	-14.55	228	157	H
3	* 2.484	38.22	RMS	32.3	-20.8	49.72	54	-4.28	-	-	228	157	H
4	* 2.484	38.91	RMS	32.3	-20.8	50.41	54	-3.59	-	-	228	157	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

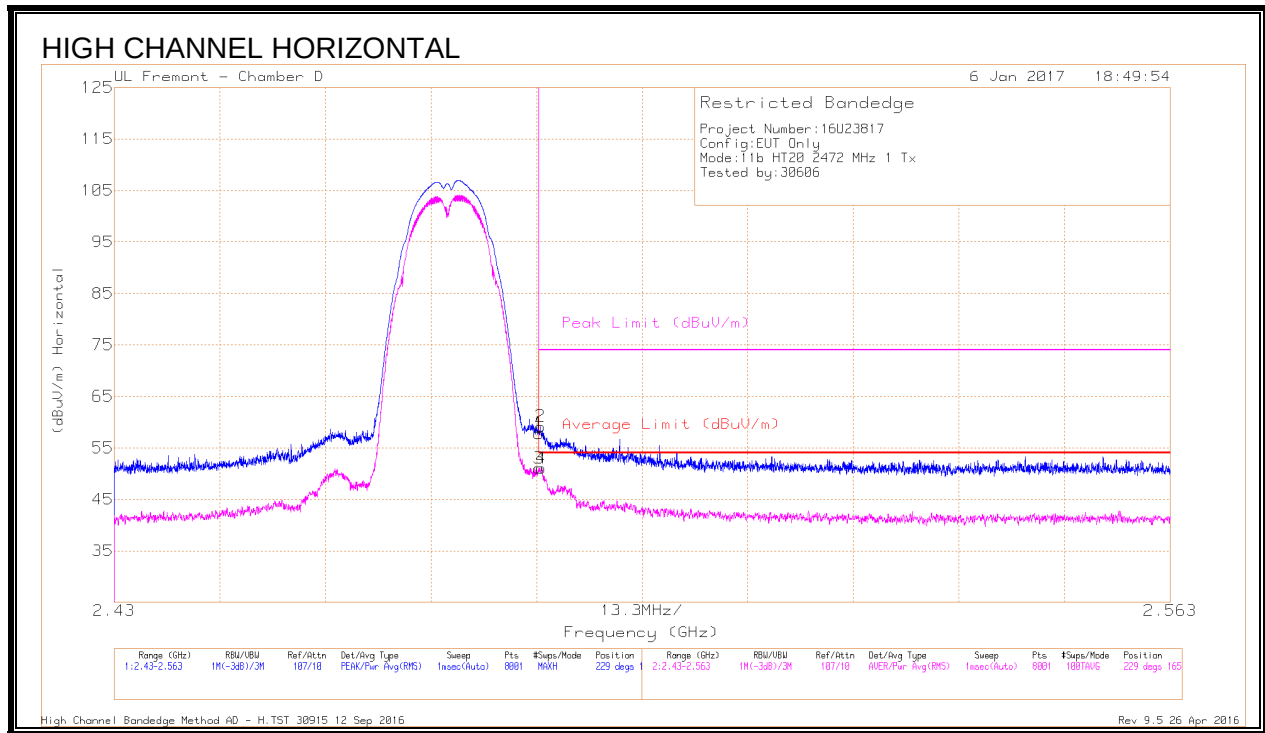
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.78	Pk	32.3	-20.8	53.28	-	-	74	-20.72	195	134	V
2	* 2.487	43.34	Pk	32.3	-20.8	54.84	-	-	74	-19.16	195	134	V
3	* 2.484	32.1	RMS	32.3	-20.8	43.6	54	-10.4	-	-	195	134	V
4	* 2.484	33.09	RMS	32.3	-20.8	44.59	54	-9.41	-	-	195	134	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 13)



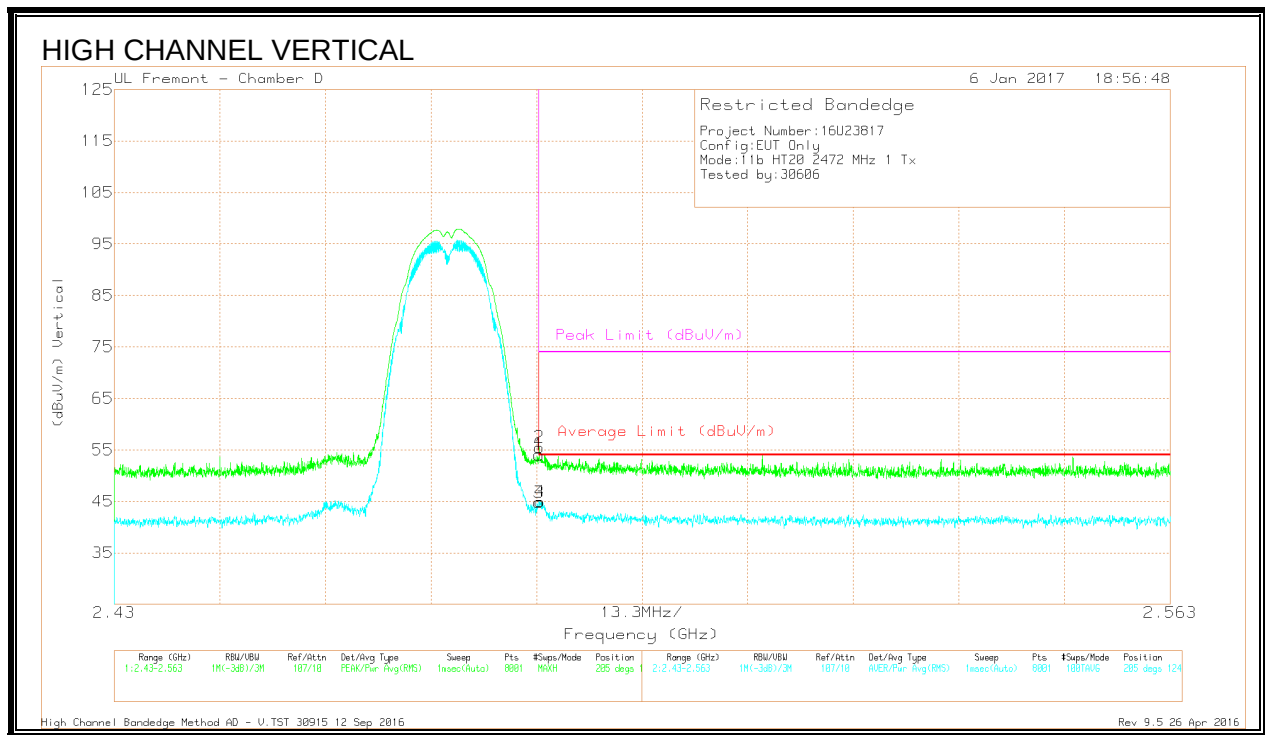
Trace Markers

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl /Ftr/Pa d (dB)	Correcte d Reading (dBuV/ m)	Average Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	46.34	Pk	32.3	-20.8	57.84	-	-	74	-16.16	229	165	H
2	* 2.484	47.67	Pk	32.3	-20.8	59.17	-	-	74	-14.83	229	165	H
3	* 2.484	39.53	RMS	32.3	-20.8	51.03	54	-2.97	-	-	229	165	H
4	* 2.484	39.53	RMS	32.3	-20.8	51.03	54	-2.97	-	-	229	165	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

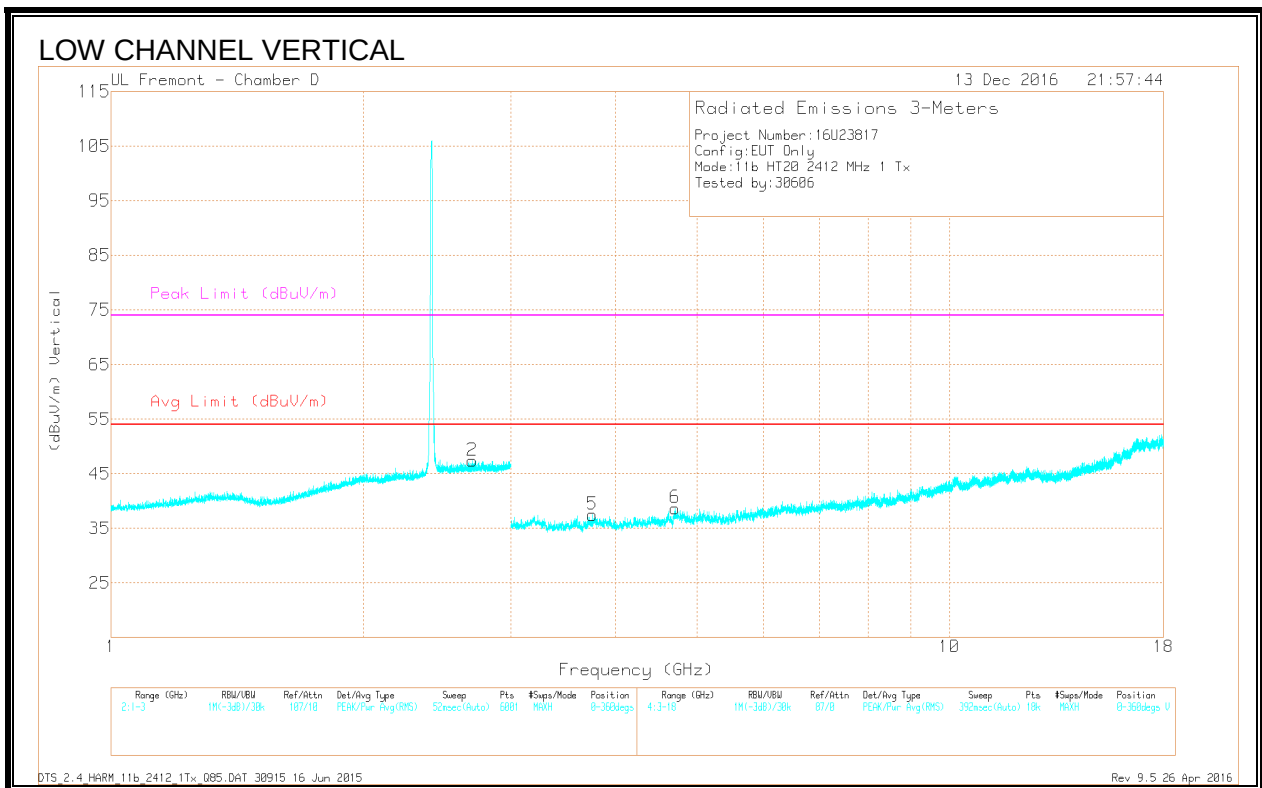
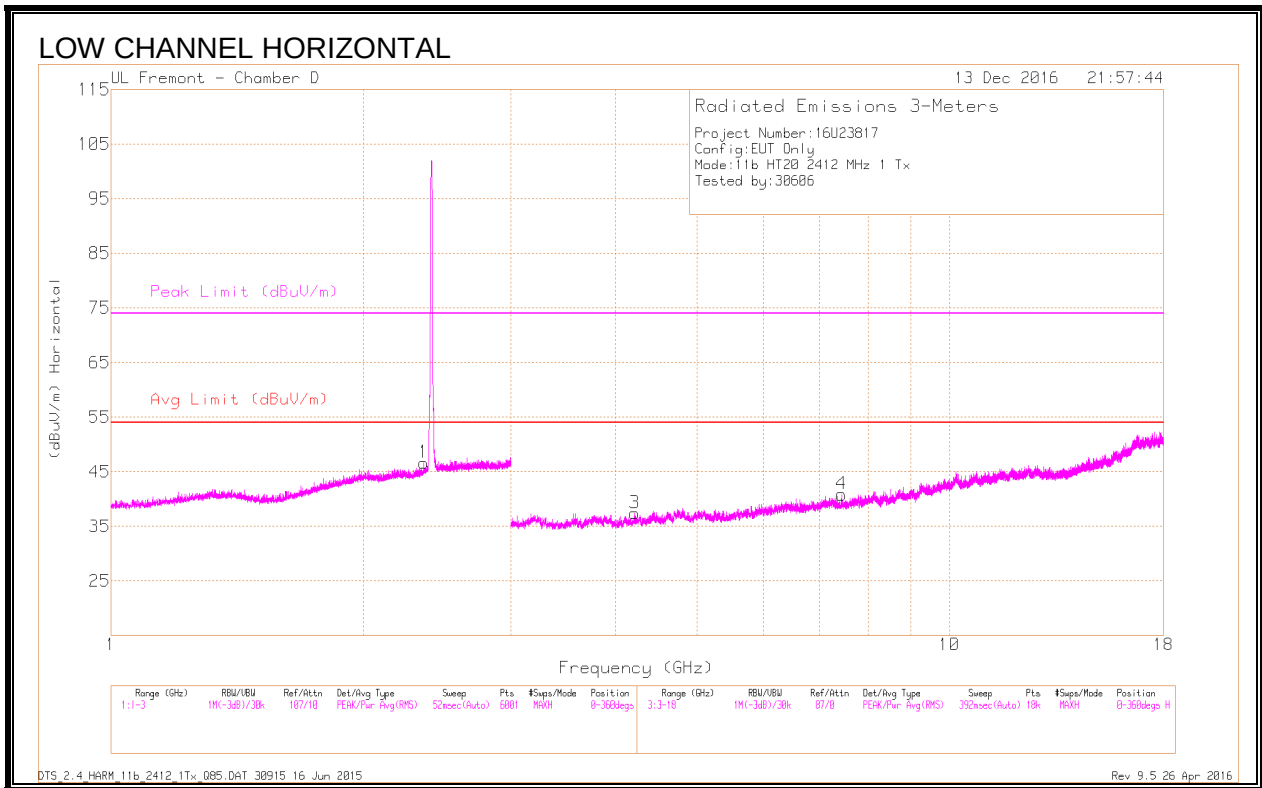
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.57	Pk	32.3	-20.8	54.07	-	-	74	-19.93	205	124	V
2	* 2.484	43.98	Pk	32.3	-20.8	55.48	-	-	74	-18.52	205	124	V
3	* 2.484	33.32	RMS	32.3	-20.8	44.82	54	-9.18	-	-	205	124	V
4	* 2.484	33.45	RMS	32.3	-20.8	44.95	54	-9.05	-	-	205	124	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)



Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/ Filtr/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	* 2.362	41.25	PK2	31.9	-20.8	52.35	-	-	74	-21.65	238	100	H
	* 2.363	30	MAv1	31.9	-20.8	41.1	54	-12.9	-	-	238	100	H
2	* 2.697	41.56	PK2	32.4	-20.5	53.46	-	-	74	-20.54	338	200	V
	* 2.696	30.23	MAv1	32.4	-20.5	42.13	54	-11.87	-	-	338	200	V
3	* 4.212	37.88	PK2	33.5	-27.5	43.88	-	-	74	-30.12	331	102	H
	* 4.215	27.21	MAv1	33.5	-27.5	33.21	54	-20.79	-	-	331	102	H
4	* 7.436	35.18	PK2	35.6	-24.6	46.18	-	-	74	-27.82	345	102	H
	* 7.435	24.69	MAv1	35.6	-24.6	35.69	54	-18.31	-	-	345	102	H
5	* 3.755	38.04	PK2	33.5	-28.3	43.24	-	-	74	-30.76	328	200	V
	* 3.751	27.22	MAv1	33.5	-28.3	32.42	54	-21.58	-	-	328	200	V
6	* 4.708	38.12	PK2	34	-27.6	44.52	-	-	74	-29.48	9	103	V
	* 4.706	27.37	MAv1	34	-27.5	33.87	54	-20.13	-	-	9	103	V

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

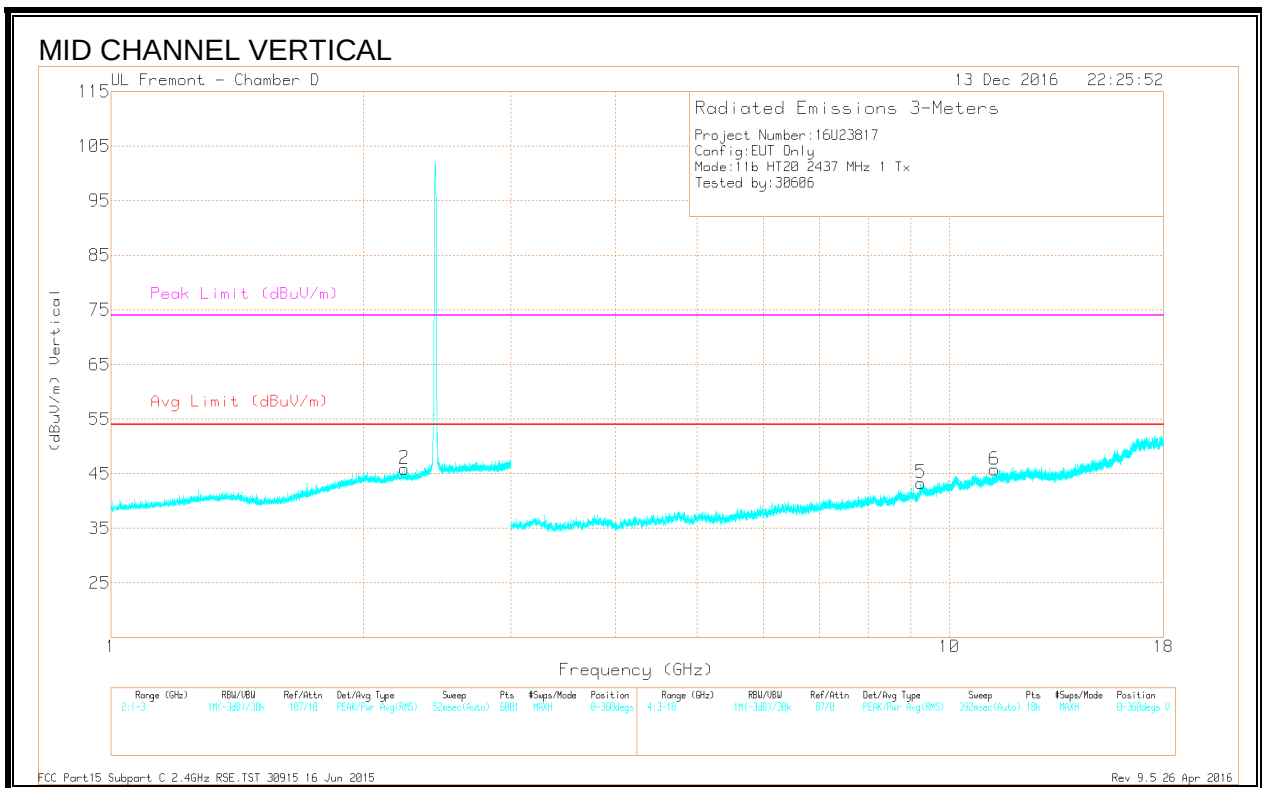
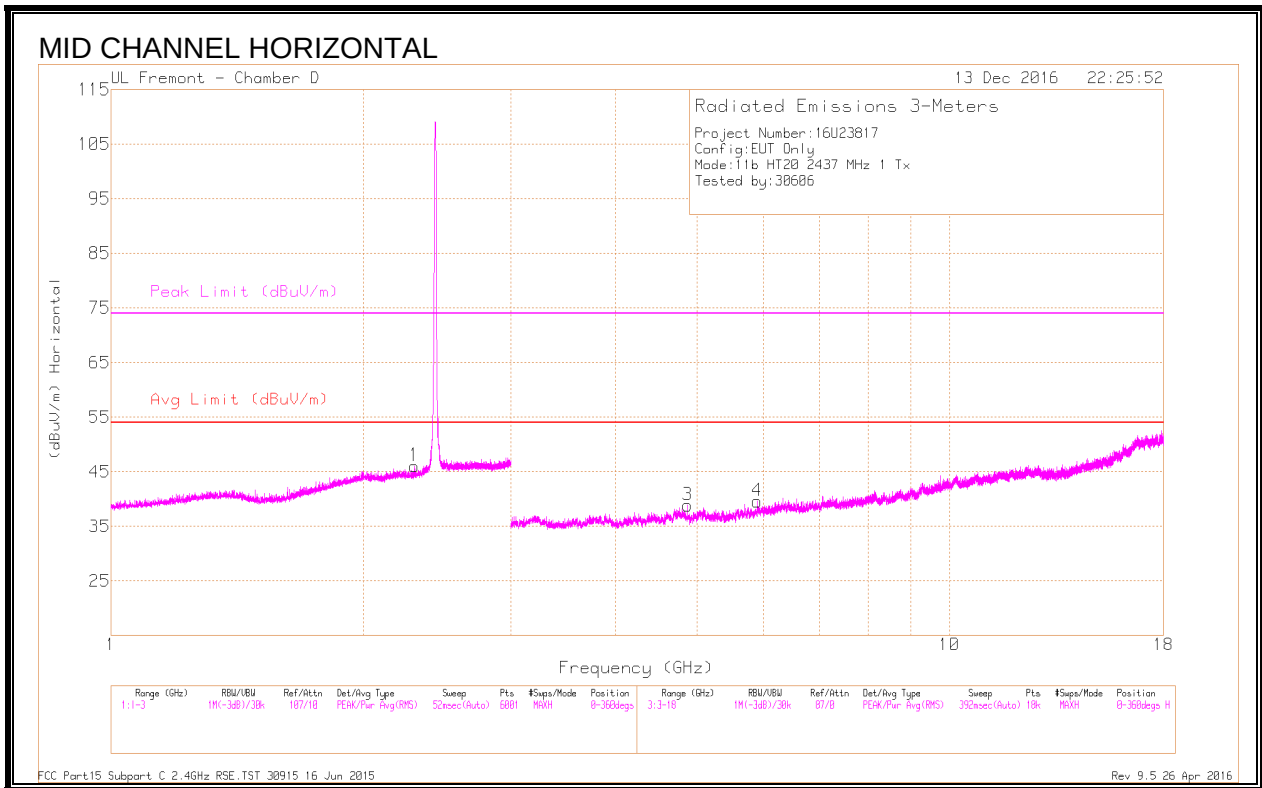
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

DTS_2.4_HARM_11b_2412_1Tx_Q85.DAT 30915 16 Jun 2015

Rev 9.5 26 Apr 2016

HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL, CH 6)



Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/ Filtr/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	* 2.228	42.54	PK2	31.5	-21	53.04	-	-	74	-20.96	329	291	H
	* 2.256	30.29	MAv1	31.5	-21.1	40.69	54	-13.31	-	-	329	291	H
1	* 2.237	41.33	PK2	31.5	-20.9	51.93	-	-	74	-22.07	204	139	V
	* 2.238	30.03	MAv1	31.5	-20.9	40.63	54	-13.37	-	-	204	139	V
3	* 4.874	38.94	PK2	34.1	-28.1	44.94	-	-	74	-29.06	213	227	H
	* 4.874	30.63	MAv1	34.1	-28.1	36.63	54	-17.37	-	-	213	227	H
6	* 11.317	34.15	PK2	38.3	-20.9	51.55	-	-	74	-22.45	256	177	V
	* 11.318	23.57	MAv1	38.3	-20.9	40.97	54	-13.03	-	-	256	177	V
4	5.901	36.52	PK2	35	-26.6	44.92	-	-	-	-	120	380	H
5	9.242	34.42	PK2	36.3	-20.5	50.22	-	-	-	-	118	131	V

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

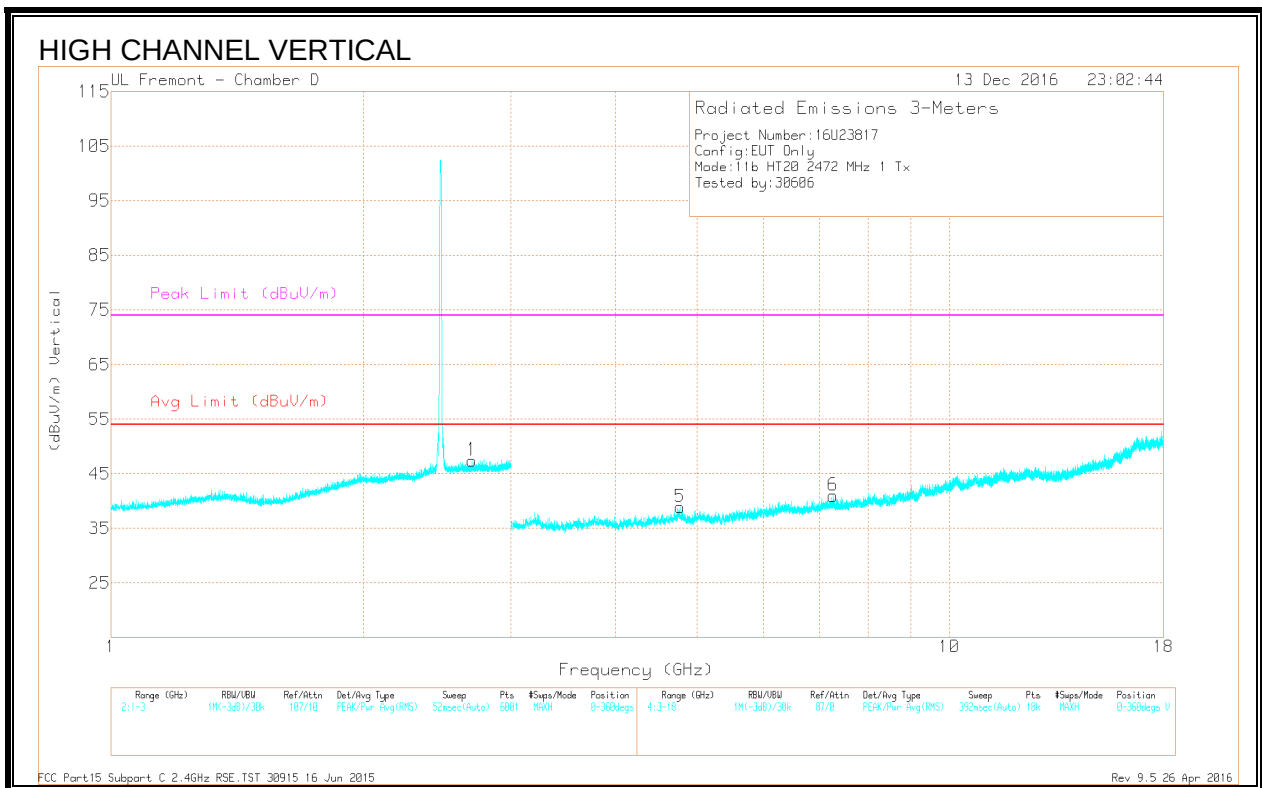
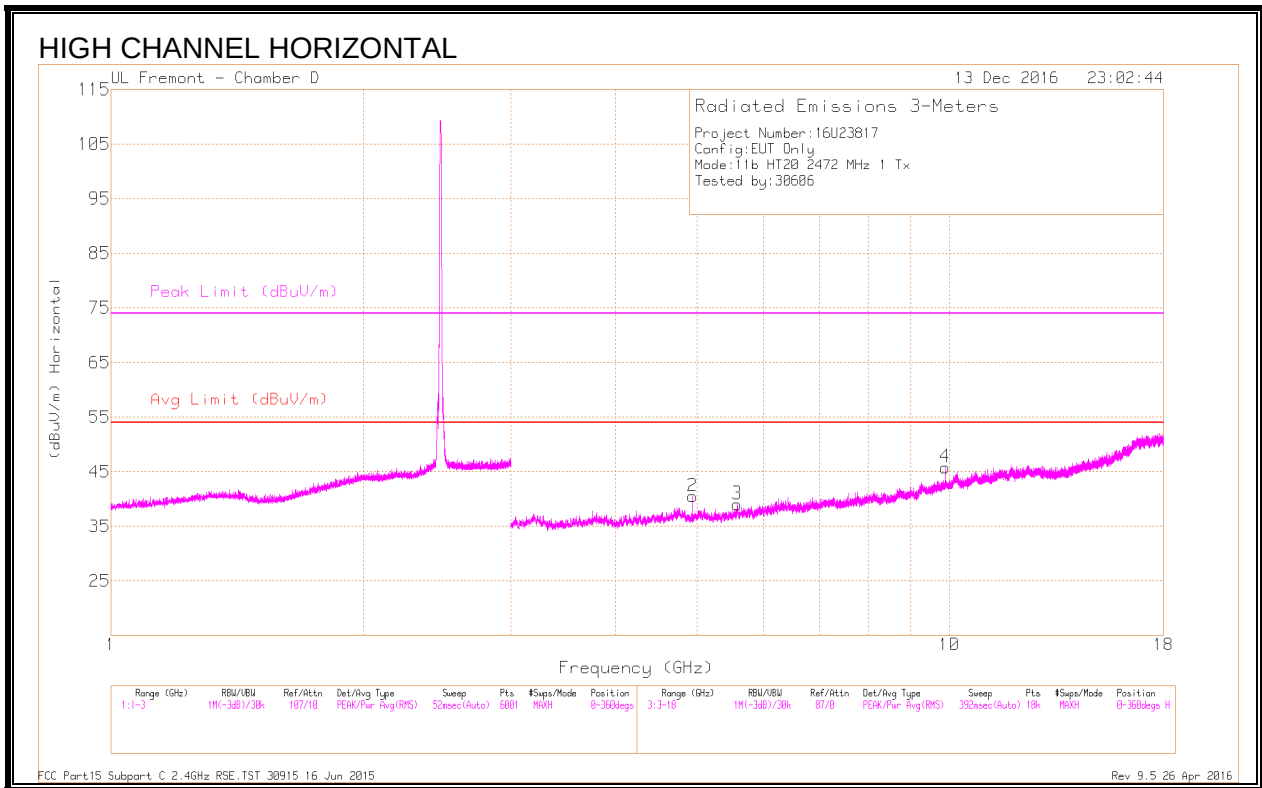
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15 Subpart C 2.4GHz RSE.TST 30915 16 Jun 2015

Rev 9.5 26 Apr 2016

HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL, CH 13)



Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/ Filtr/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	* 2.694	41.34	PK2	32.4	-20.6	53.14	-	-	74	-20.86	12	110	V
	* 2.695	30.27	MAv1	32.4	-20.5	42.17	54	-11.83	-	-	12	110	V
2	* 4.944	40.52	PK2	34.1	-28.1	46.52	-	-	74	-27.48	211	103	H
	* 4.944	33.9	MAv1	34.1	-28.1	39.9	54	-14.1	-	-	211	103	H
5	* 4.775	37.23	PK2	34	-26.6	44.63	-	-	74	-29.37	150	302	V
	* 4.773	26.39	MAv1	34	-26.6	33.79	54	-20.21	-	-	150	302	V
6	* 7.26	36.04	PK2	35.7	-25	46.74	-	-	74	-27.26	345	124	V
	* 7.262	25.39	MAv1	35.7	-25	36.09	54	-17.91	-	-	345	124	V
3	5.58	37.14	PK2	34.5	-26.3	45.34	-	-	-	-	180	146	H
4	9.888	35.24	PK2	37	-20.8	51.44	-	-	-	-	233	101	H

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

PK2 - KDB558074 Method: Maximum Peak

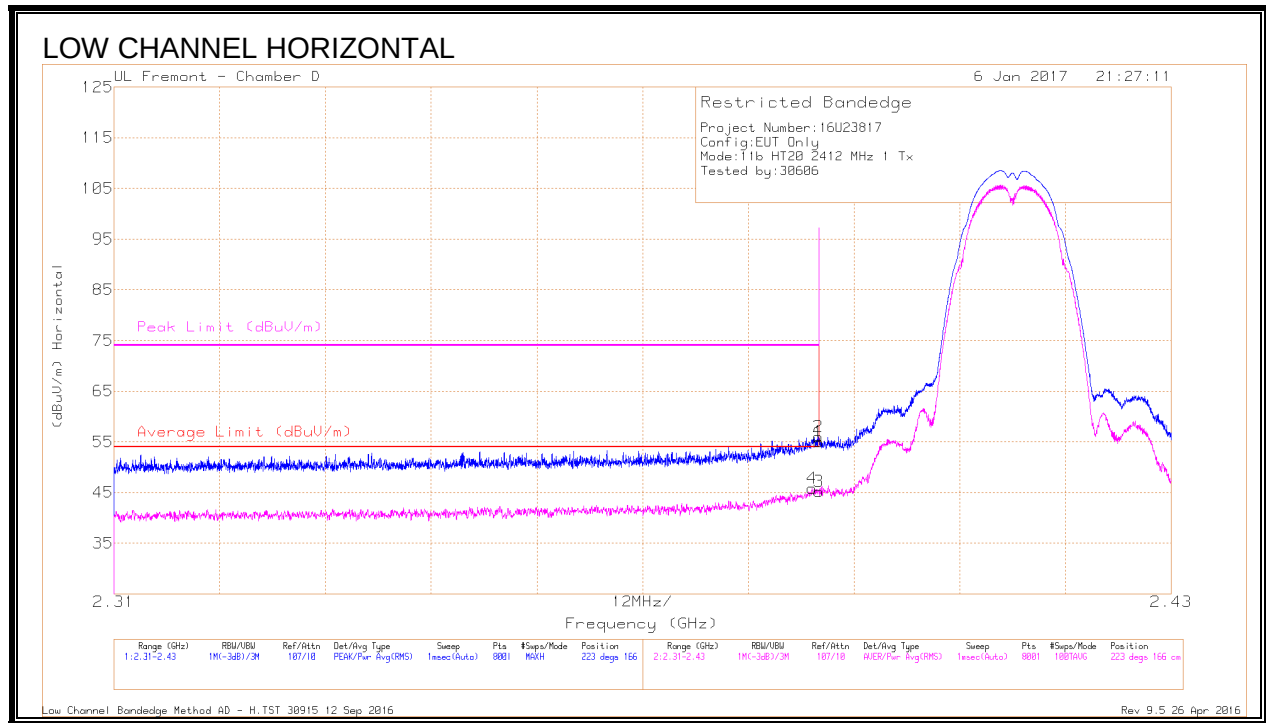
MAv1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15 Subpart C 2.4GHz RSE.TST 30915 16 Jun 2015

Rev 9.5 26 Apr 2016

10.2.2. 11b ANTENNA B SISO MODE IN THE 2.4GHz BAND

AUTHORIZED BANDEDGE (LOW CHANNEL, CH 1)



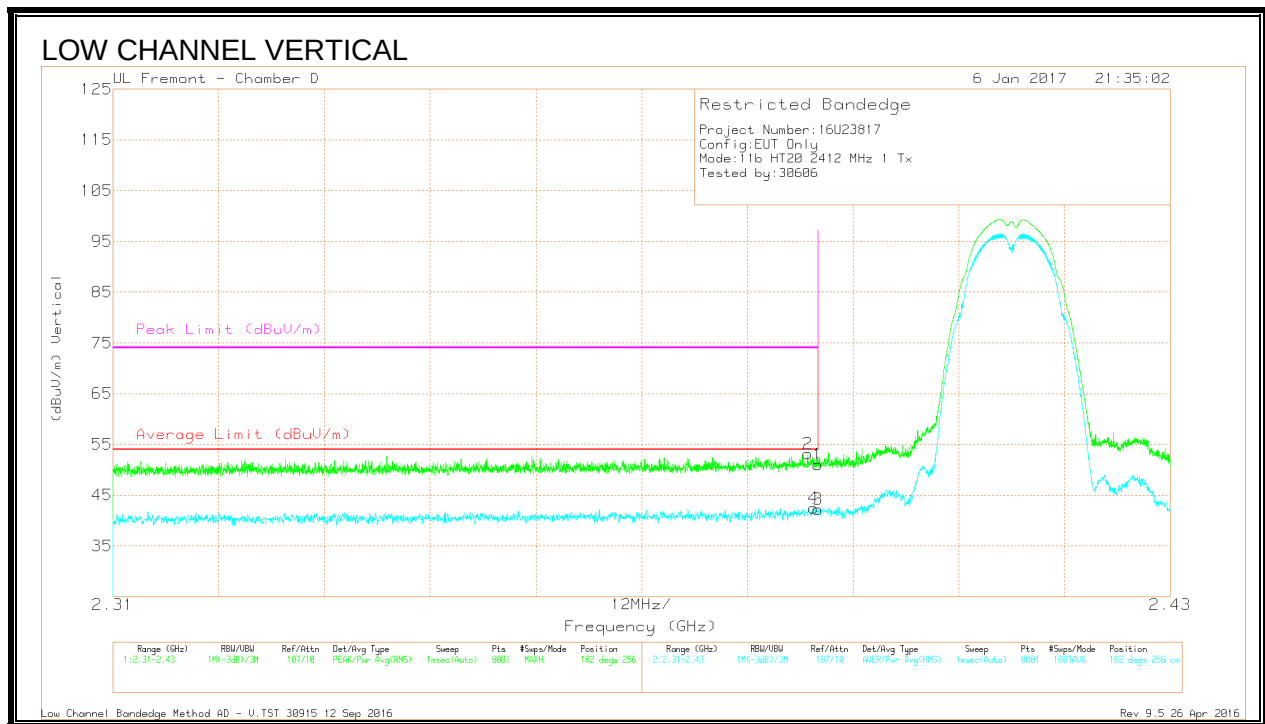
Trace Markers

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	* 2.39	43.66	Pk	32.1	-20.7	55.06	-	-	74	-18.94	223	166	H
2	* 2.39	44.55	Pk	32.1	-20.7	55.95	-	-	74	-18.05	223	166	H
3	* 2.39	33.75	RMS	32.1	-20.7	45.15	54	-8.85	-	-	223	166	H
4	* 2.389	34.57	RMS	32.1	-20.8	45.87	54	-8.13	-	-	223	166	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

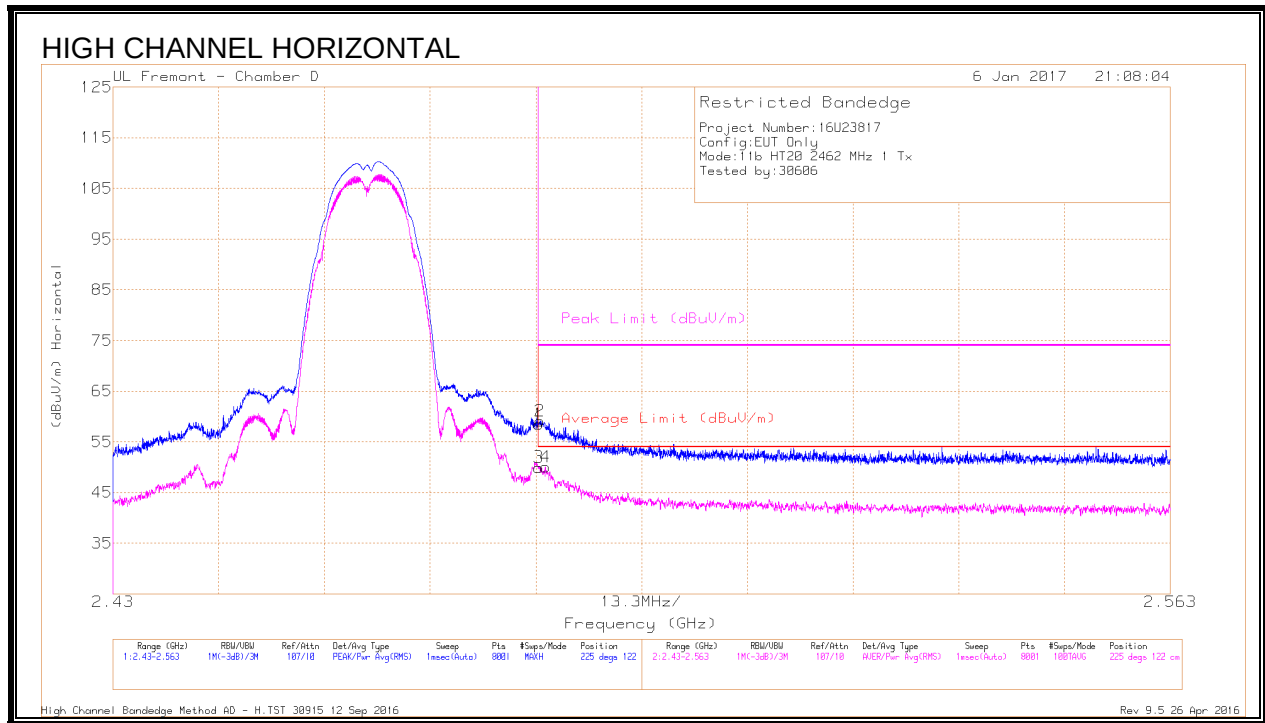
Marker	Frequ ncy (GHz)	Meter Readin g (dBuV)	Det	AF T712 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Correct ed Readin g (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimet h (Degs)	Height (cm)	Polarity
1	* 2.39	39.58	Pk	32.1	-20.7	50.98	-	-	74	-23.02	182	256	V
2	* 2.389	41.89	Pk	32.1	-20.8	53.19	-	-	74	-20.81	182	256	V
3	* 2.39	30.83	RMS	32.1	-20.7	42.23	54	-11.77	-	-	182	256	V
4	* 2.39	31.18	RMS	32.1	-20.8	42.48	54	-11.52	-	-	182	256	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 11)



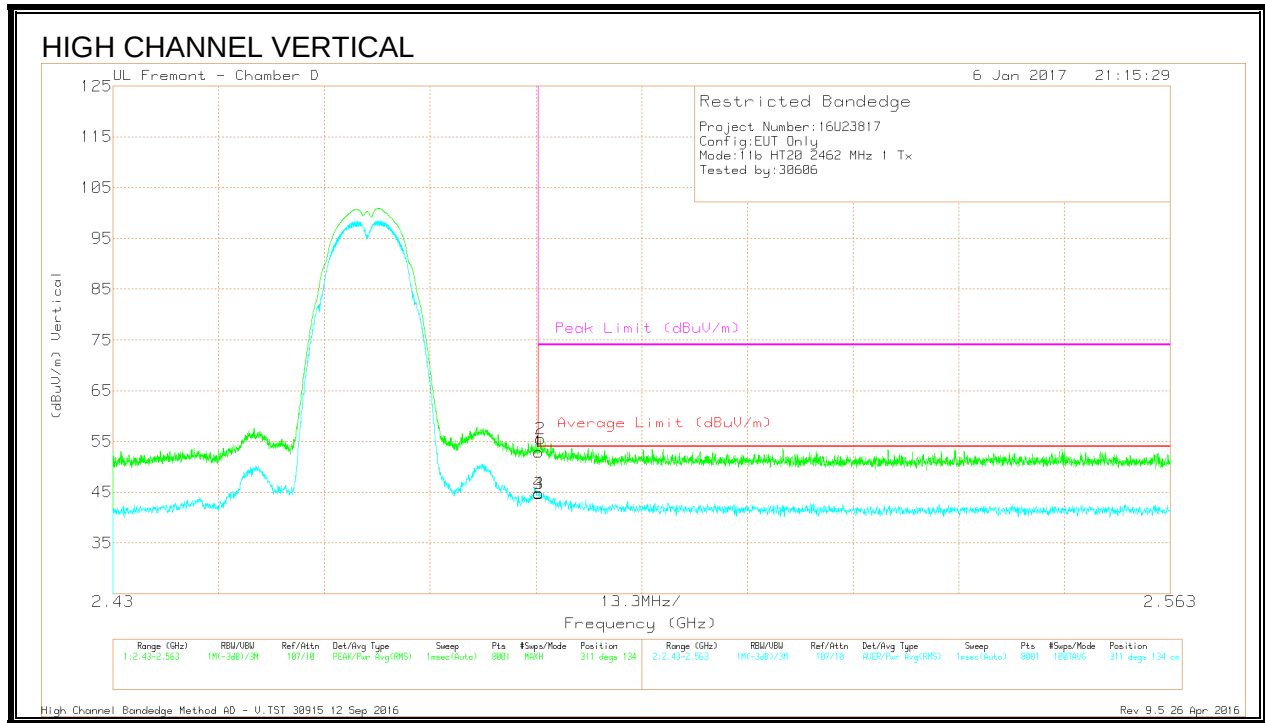
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cb/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	Pk	32.3	-20.8	58.5	-	-	74	-15.5	225	122	H
2	* 2.484	47.57	Pk	32.3	-20.8	59.07	-	-	74	-14.93	225	122	H
3	* 2.484	38.48	RMS	32.3	-20.8	49.98	54	-4.02	-	-	225	122	H
4	* 2.484	38.58	RMS	32.3	-20.8	50.08	54	-3.92	-	-	225	122	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

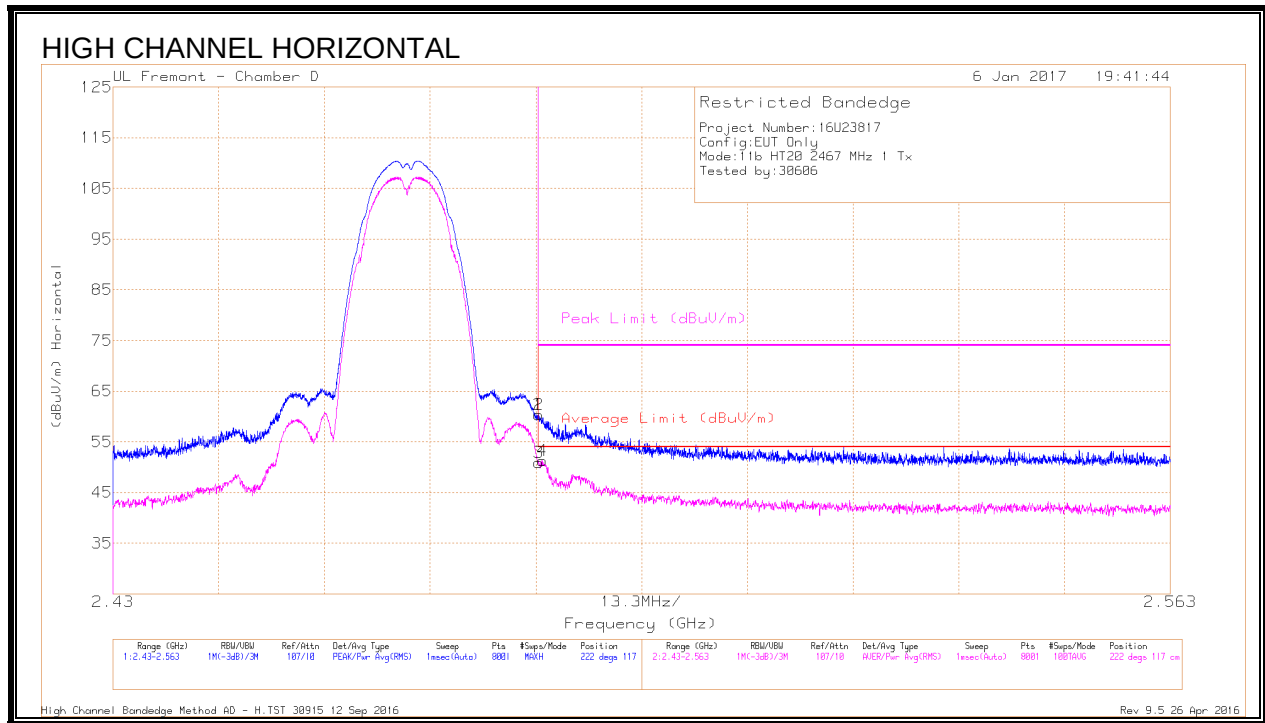
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.43	Pk	32.3	-20.8	52.93	-	-	74	-21.07	311	134	V
2	* 2.484	43.95	Pk	32.3	-20.8	55.45	-	-	74	-18.55	311	134	V
3	* 2.484	33.23	RMS	32.3	-20.8	44.73	54	-9.27	-	-	311	134	V
4	* 2.484	33.31	RMS	32.3	-20.8	44.81	54	-9.19	-	-	311	134	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 12)



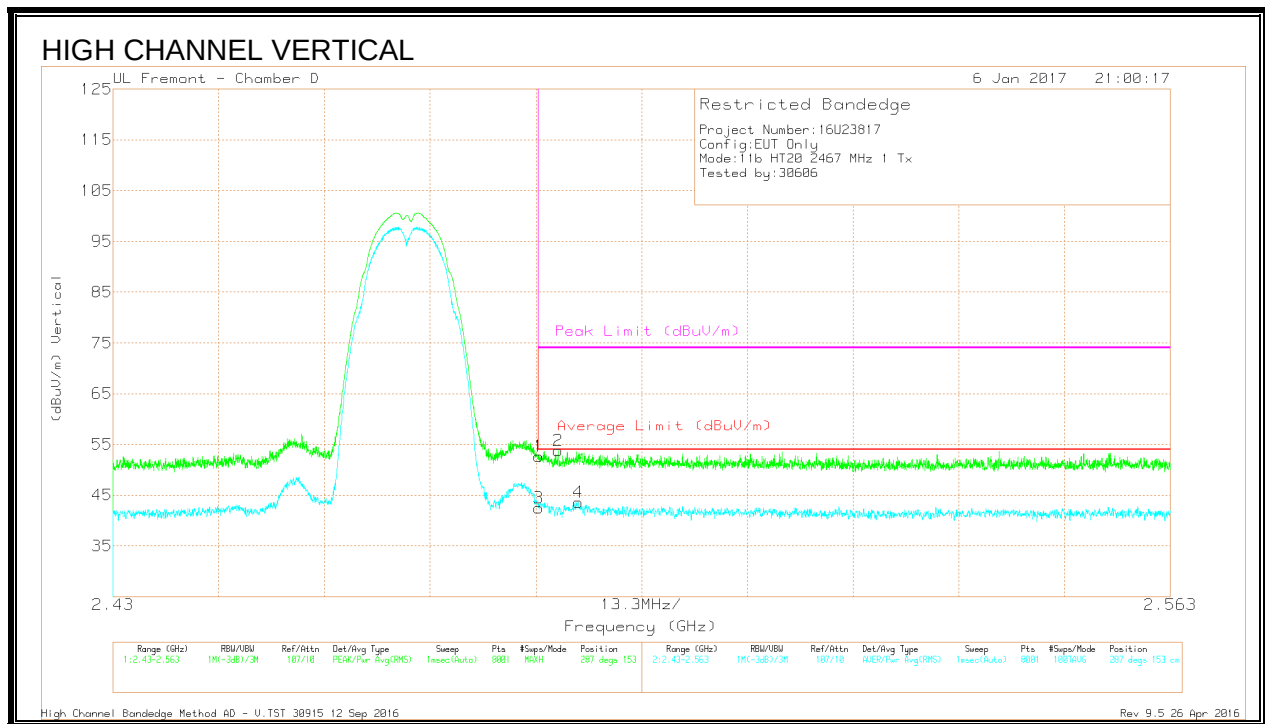
Trace Markers

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	48.83	Pk	32.3	-20.8	60.33	-	-	74	-13.67	222	117	H
2	* 2.484	48.87	Pk	32.3	-20.8	60.37	-	-	74	-13.63	222	117	H
3	* 2.484	39.39	RMS	32.3	-20.8	50.89	54	-3.11	-	-	222	117	H
4	* 2.484	39.78	RMS	32.3	-20.8	51.28	54	-2.72	-	-	222	117	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

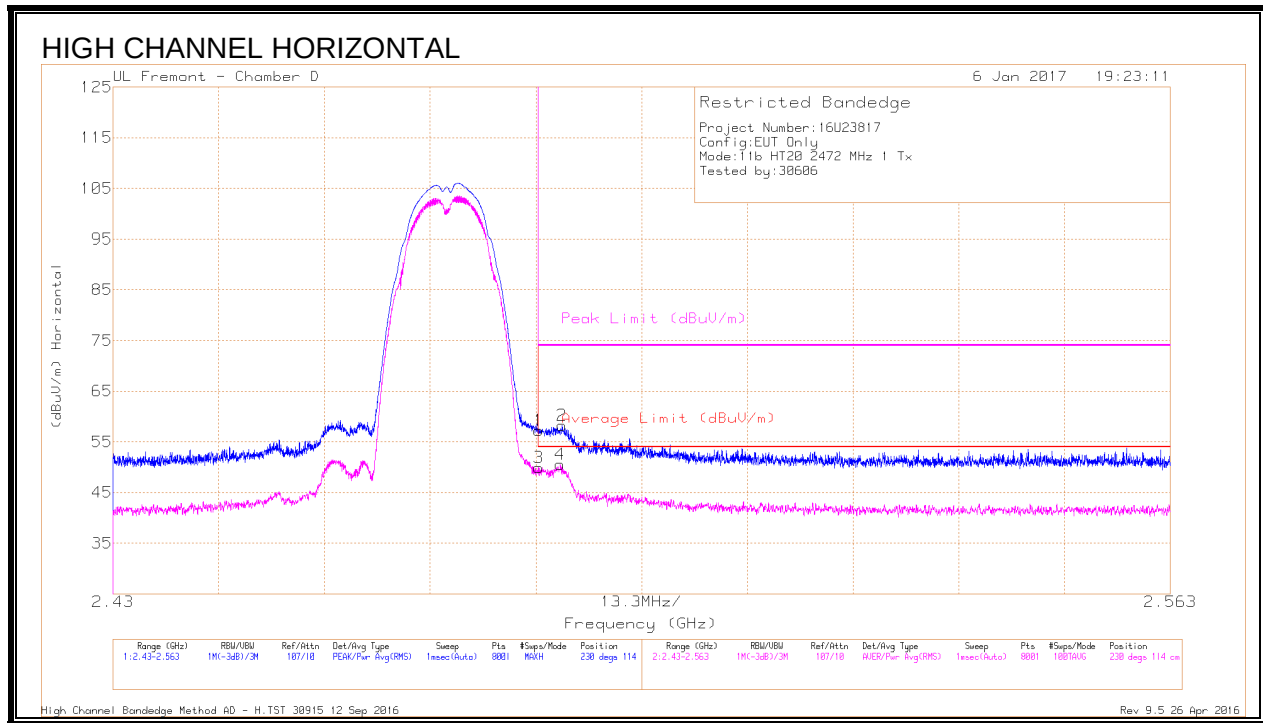
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.11	Pk	32.3	-20.8	52.61	-	-	74	-21.39	287	153	V
2	* 2.486	42.31	Pk	32.3	-20.8	53.81	-	-	74	-20.19	287	153	V
3	* 2.484	30.99	RMS	32.3	-20.8	42.49	54	-11.51	-	-	287	153	V
4	* 2.489	32.09	RMS	32.3	-20.8	43.59	54	-10.41	-	-	287	153	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 13)



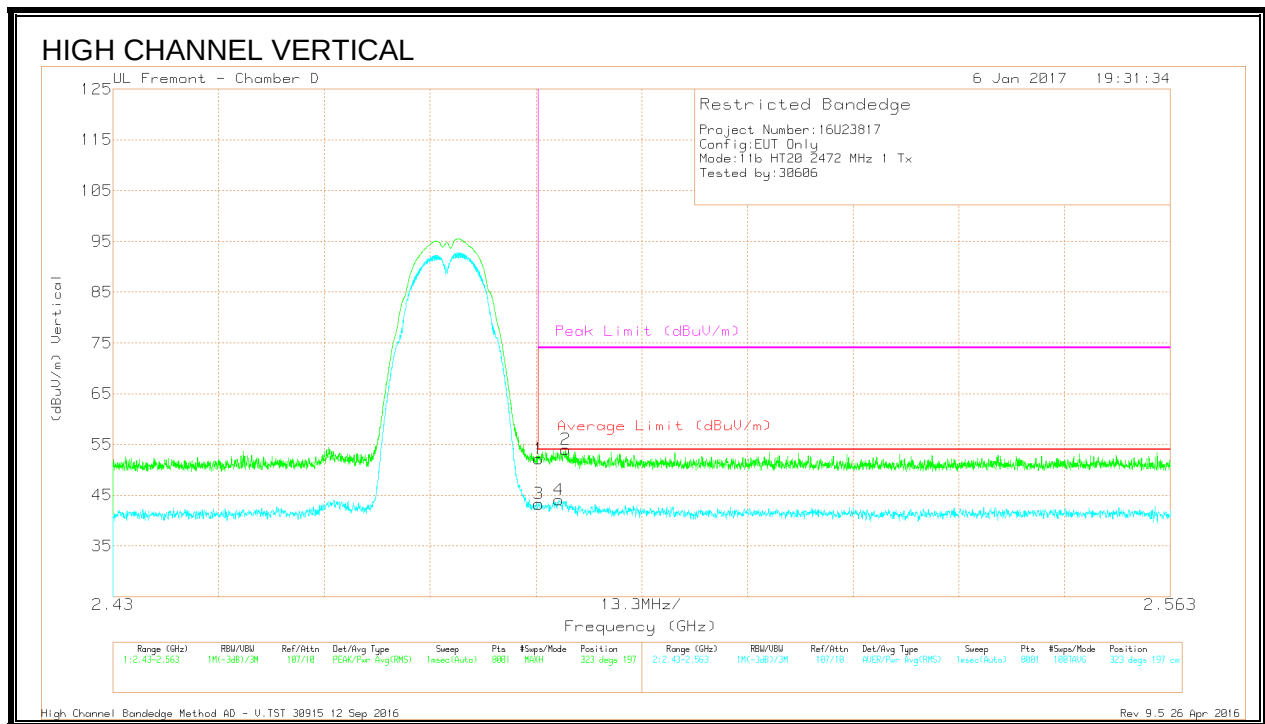
Trace Markers

Marker	Frequ ncy (GHz)	Meter Readin g (dBuV)	Det	AF T712 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Correct ed Readin g (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	45.78	Pk	32.3	-20.8	57.28	-	-	74	-16.72	230	114	H
2	* 2.487	46.71	Pk	32.3	-20.8	58.21	-	-	74	-15.79	230	114	H
3	* 2.484	38.38	RMS	32.3	-20.8	49.88	54	-4.12	-	-	230	114	H
4	* 2.486	39.08	RMS	32.3	-20.8	50.58	54	-3.42	-	-	230	114	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

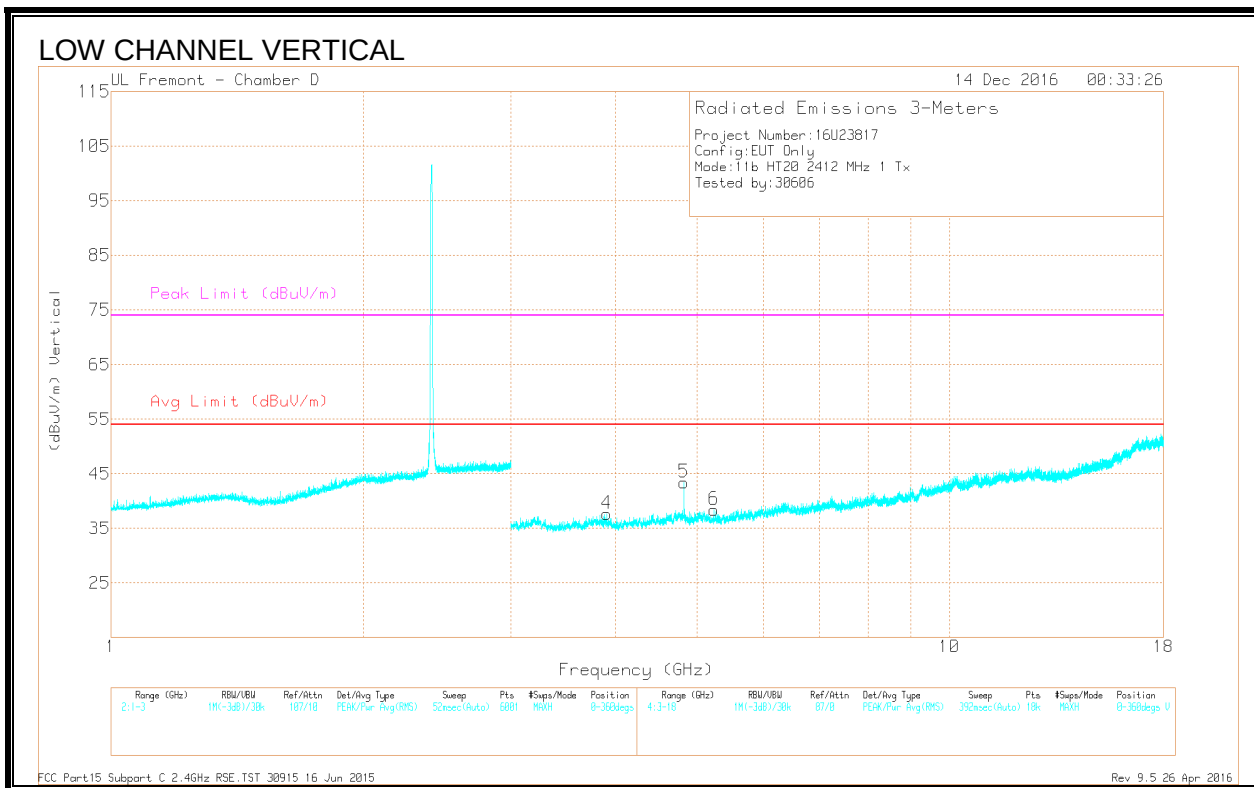
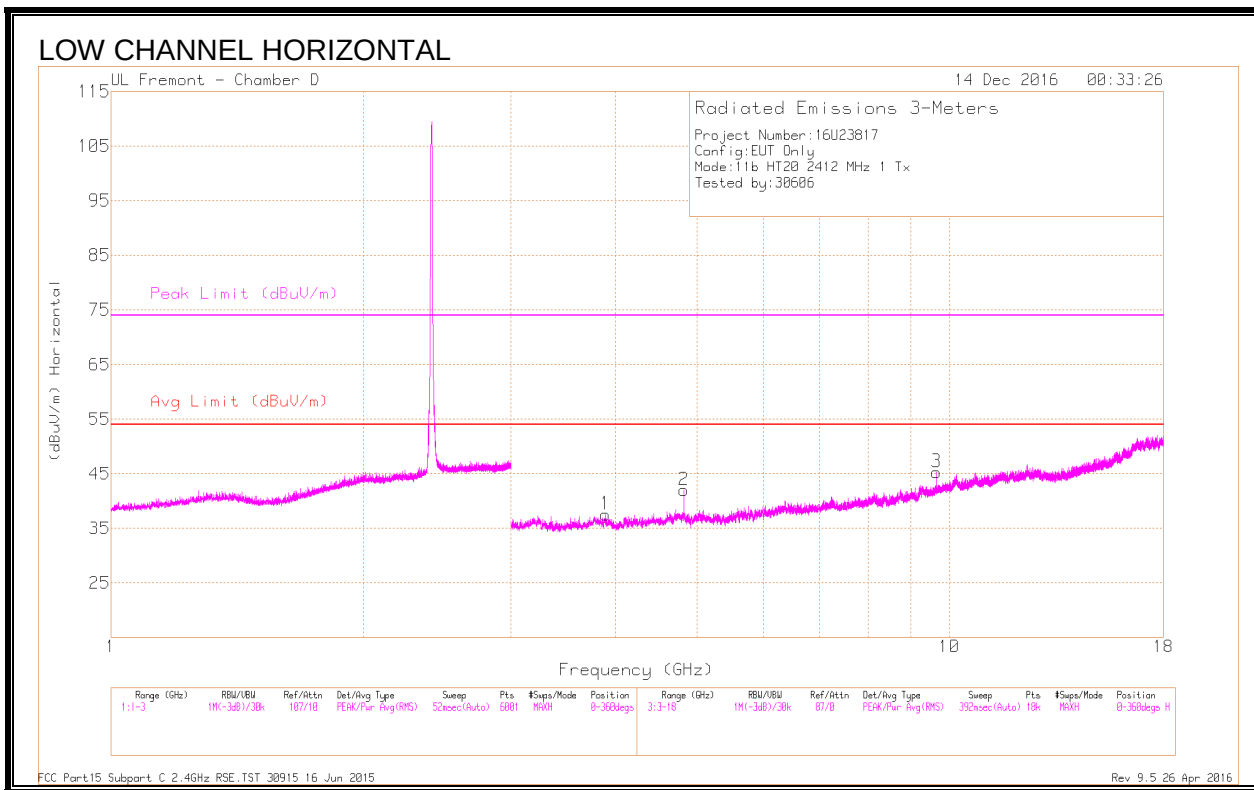
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.61	Pk	32.3	-20.8	52.11	-	-	74	-21.89	323	197	V
2	* 2.487	42.46	Pk	32.3	-20.8	53.96	-	-	74	-20.04	323	197	V
3	* 2.484	31.78	RMS	32.3	-20.8	43.28	54	-10.72	-	-	323	197	V
4	* 2.486	32.56	RMS	32.3	-20.8	44.06	54	-9.94	-	-	323	197	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)



Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/ Filtr/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	* 3.891	38.52	PK2	33.5	-28.2	43.82	-	-	74	-30.18	188	200	H
	* 3.892	27.62	MAV1	33.5	-28.2	32.92	54	-21.08	-	-	188	200	H
2	* 4.824	44.12	PK2	34.1	-27.4	50.82	-	-	74	-23.18	212	112	H
	* 4.824	38.8	MAV1	34.1	-27.4	45.5	54	-8.5	-	-	212	112	H
4	* 3.903	38.68	PK2	33.5	-28.2	43.98	-	-	74	-30.02	44	102	V
	* 3.906	27.2	MAV1	33.5	-28.2	32.5	54	-21.5	-	-	44	102	V
5	* 4.824	38.13	PK2	34.1	-27.4	44.83	-	-	74	-29.17	263	102	V
	* 4.824	29.21	MAV1	34.1	-27.4	35.91	54	-18.09	-	-	263	102	V
6	5.237	37.47	PK2	34.2	-27.4	44.27	-	-	-	-	287	102	V
3	9.648	36.73	PK2	36.7	-21.2	52.23	-	-	-	-	278	227	H

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

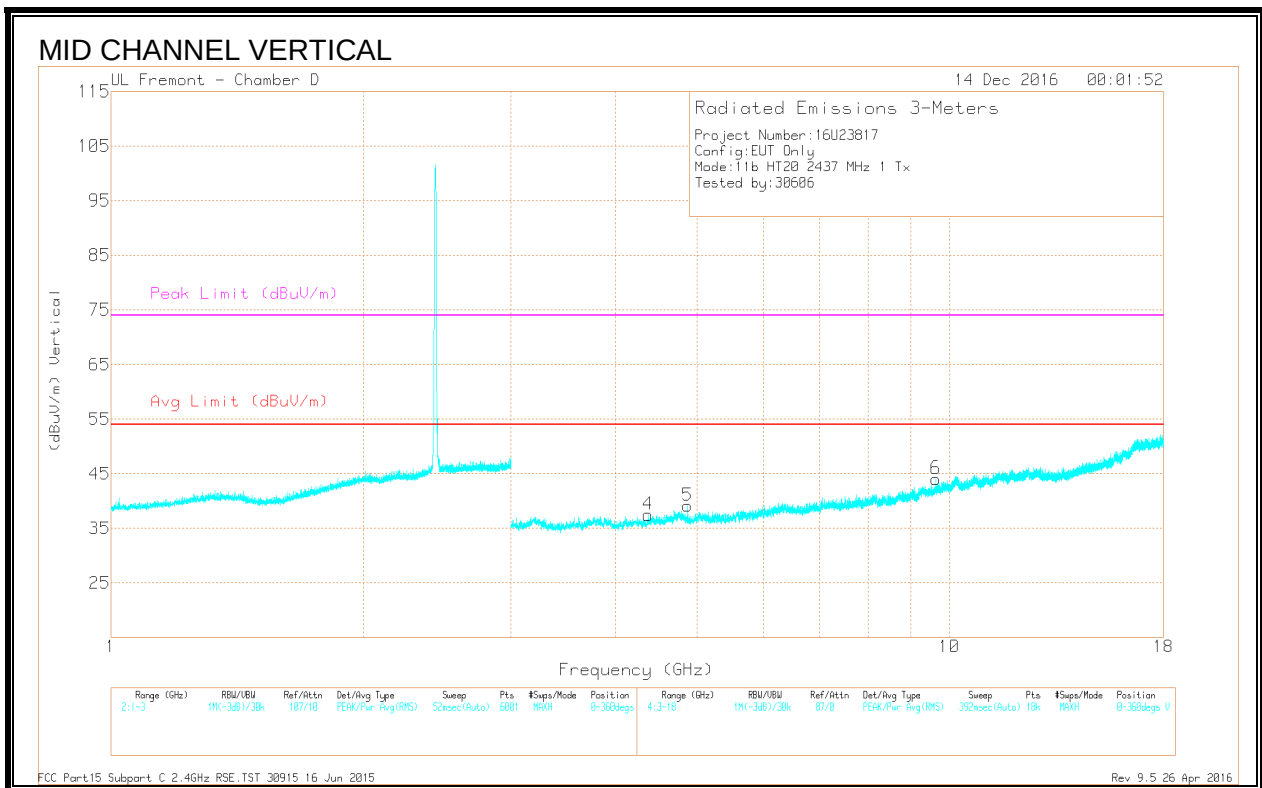
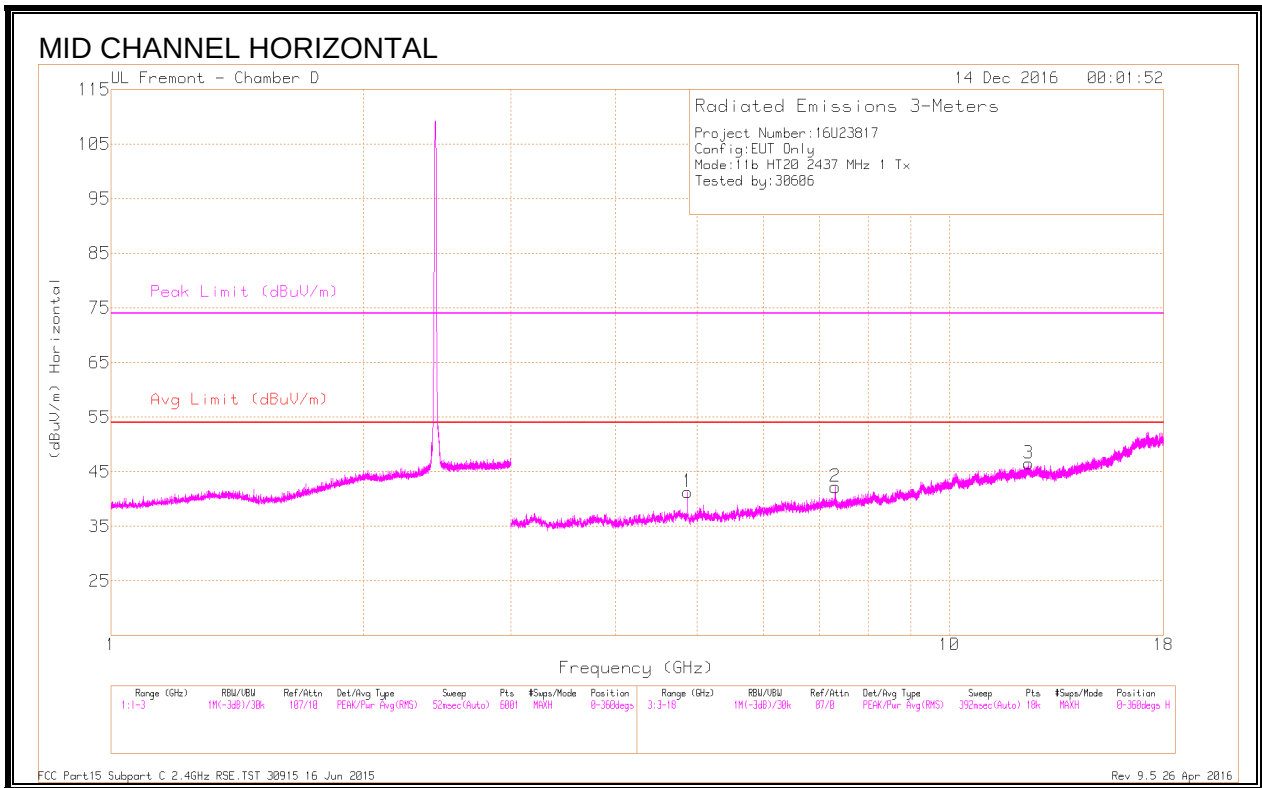
PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15 Subpart C 2.4GHz RSE.TST 30915 16 Jun 2015

Rev 9.5 26 Apr 2016

HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL, CH 6)



Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/ Filtr/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	* 4.874	42.36	PK2	34.1	-28.1	48.36	-	-	74	-25.64	217	102	H
	* 4.874	37.53	MAV1	34.1	-28.1	43.53	54	-10.47	-	-	217	102	H
2	* 7.309	36.83	PK2	35.7	-25.1	47.43	-	-	74	-26.57	343	201	H
	* 7.31	25.61	MAV1	35.7	-25.1	36.21	54	-17.79	-	-	343	201	H
3	* 12.43	33.62	PK2	39.1	-20.4	52.32	-	-	74	-21.68	354	102	H
	* 12.431	23.39	MAV1	39.1	-20.4	42.09	54	-11.91	-	-	354	102	H
4	* 4.374	38.37	PK2	33.8	-28.4	43.77	-	-	74	-30.23	95	201	V
	* 4.372	27.35	MAV1	33.8	-28.4	32.75	54	-21.25	-	-	95	201	V
5	* 4.874	40.19	PK2	34.1	-28.1	46.19	-	-	74	-27.81	253	111	V
	* 4.874	31.46	MAV1	34.1	-28.1	37.46	54	-16.54	-	-	253	111	V
6	9.636	33.56	PK2	36.7	-20.9	49.36	-	-	-	-	41	102	V

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

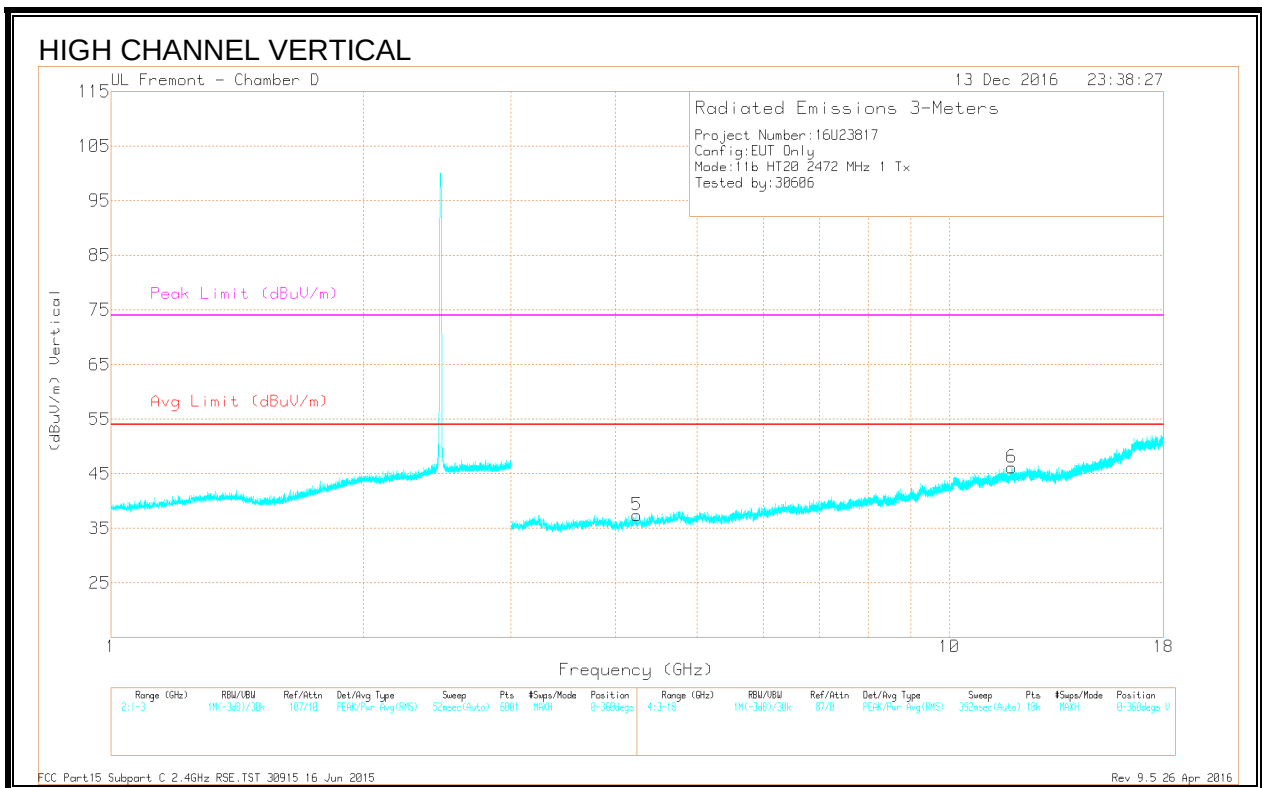
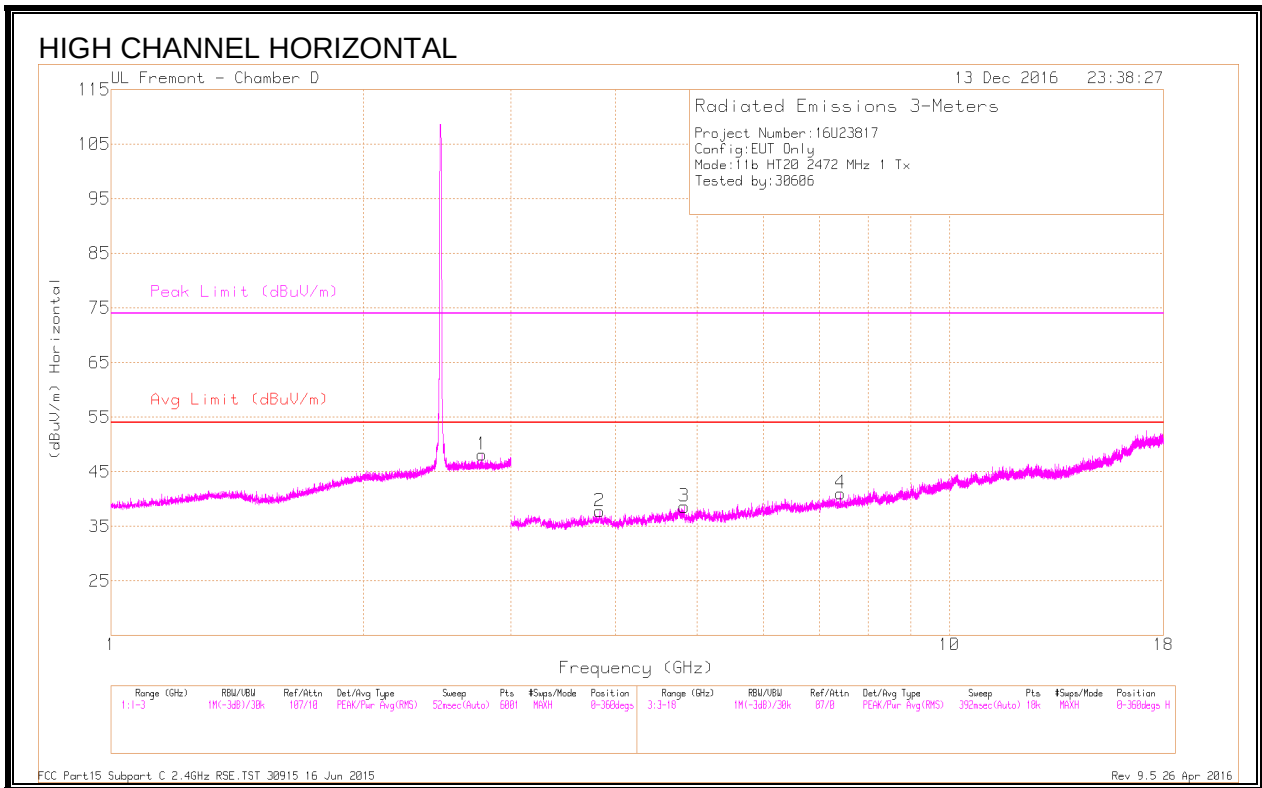
PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

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Rev 9.5 26 Apr 2016

HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL, CH 13)



Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/ Filtr/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	* 2.77	41.5	PK2	32.4	-20.4	53.5	-	-	74	-20.5	169	100	H
	* 2.772	30.13	MAv1	32.4	-20.3	42.23	54	-11.77	-	-	169	100	H
2	* 3.827	38.04	PK2	33.5	-28.5	43.04	-	-	74	-30.96	52	200	H
	* 3.827	27.83	MAv1	33.5	-28.5	32.83	54	-21.17	-	-	52	200	H
3	* 4.827	37.59	PK2	34.1	-27.4	44.29	-	-	74	-29.71	31	103	H
	* 4.829	27.01	MAv1	34.1	-27.4	33.71	54	-20.29	-	-	31	103	H
4	* 7.414	35.33	PK2	35.6	-24.9	46.03	-	-	74	-27.97	49	200	H
	* 7.414	24.89	MAv1	35.6	-24.9	35.59	54	-18.41	-	-	49	200	H
5	* 4.24	37.82	PK2	33.5	-27.6	43.72	-	-	74	-30.28	123	102	V
	* 4.238	26.63	MAv1	33.5	-27.5	32.63	54	-21.37	-	-	123	102	V
6	* 11.865	33.97	PK2	38.8	-20.5	52.27	-	-	74	-21.73	170	102	V
	* 11.866	23.2	MAv1	38.8	-20.5	41.5	54	-12.5	-	-	170	102	V

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

PK2 - KDB558074 Method: Maximum Peak

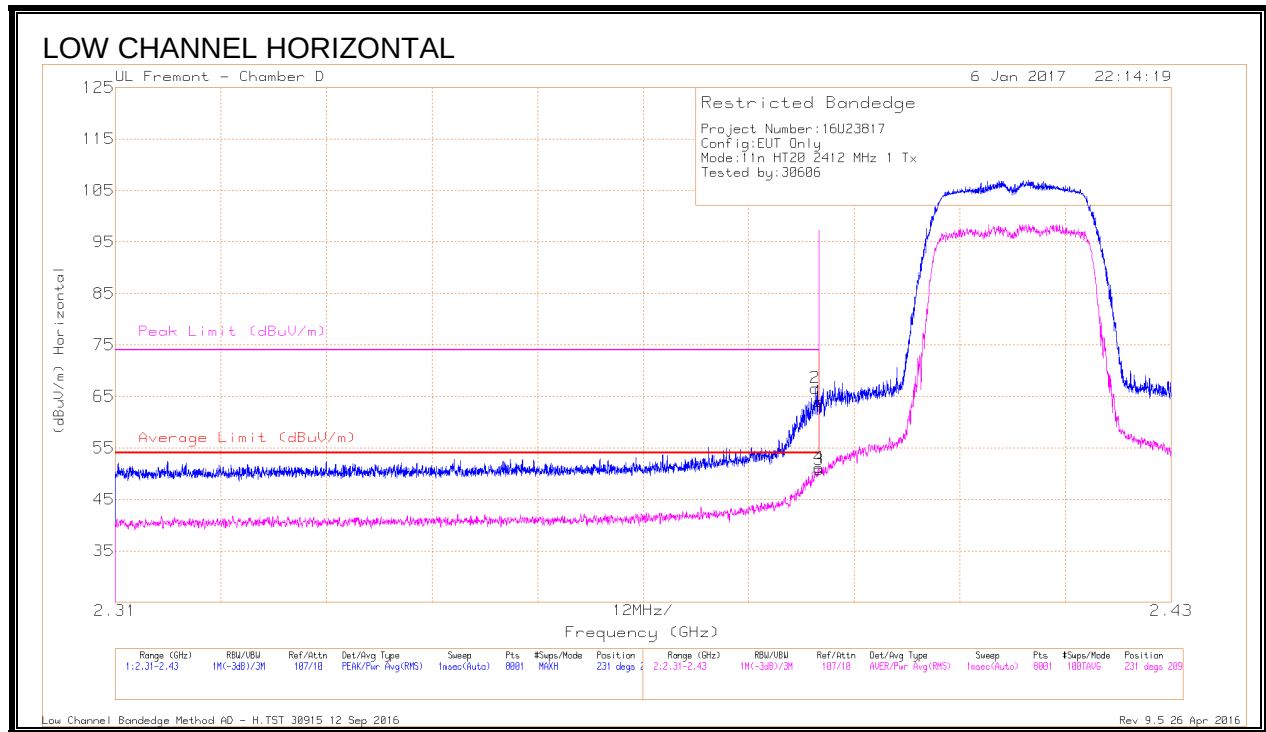
MAv1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15 Subpart C 2.4GHz RSE.TST 30915 16 Jun 2015

Rev 9.5 26 Apr 2016

10.2.3. 11n HT20 ANTENNA A SISO MODE IN THE 2.4GHz BAND

AUTHORIZED BANDEDGE (LOW CHANNEL, CH 1)



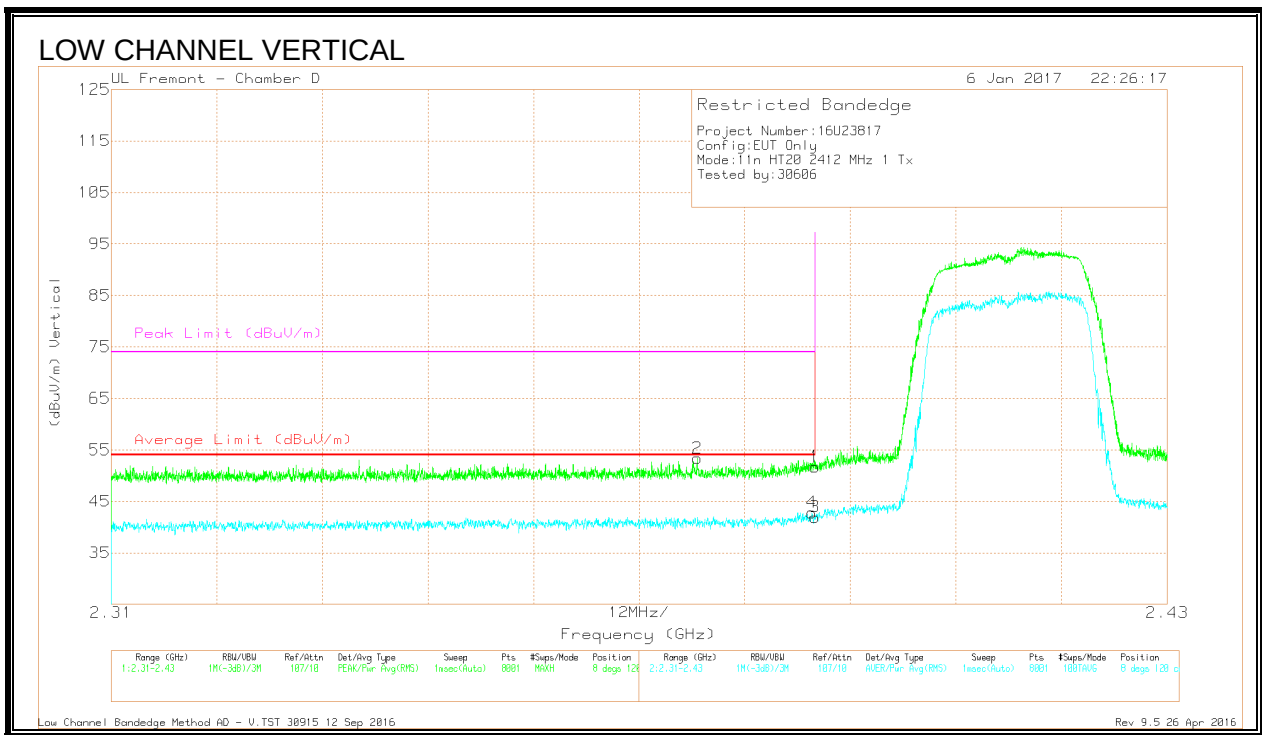
Trace Markers

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	* 2.39	52.61	Pk	32.1	-20.7	64.01	-	-	74	-9.99	231	209	H
2	* 2.39	55.33	Pk	32.1	-20.8	66.63	-	-	74	-7.37	231	209	H
3	* 2.39	39.4	RMS	32.1	-20.7	50.8	54	-3.2	-	-	231	209	H
4	* 2.39	39.75	RMS	32.1	-20.7	51.15	54	-2.85	-	-	231	209	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

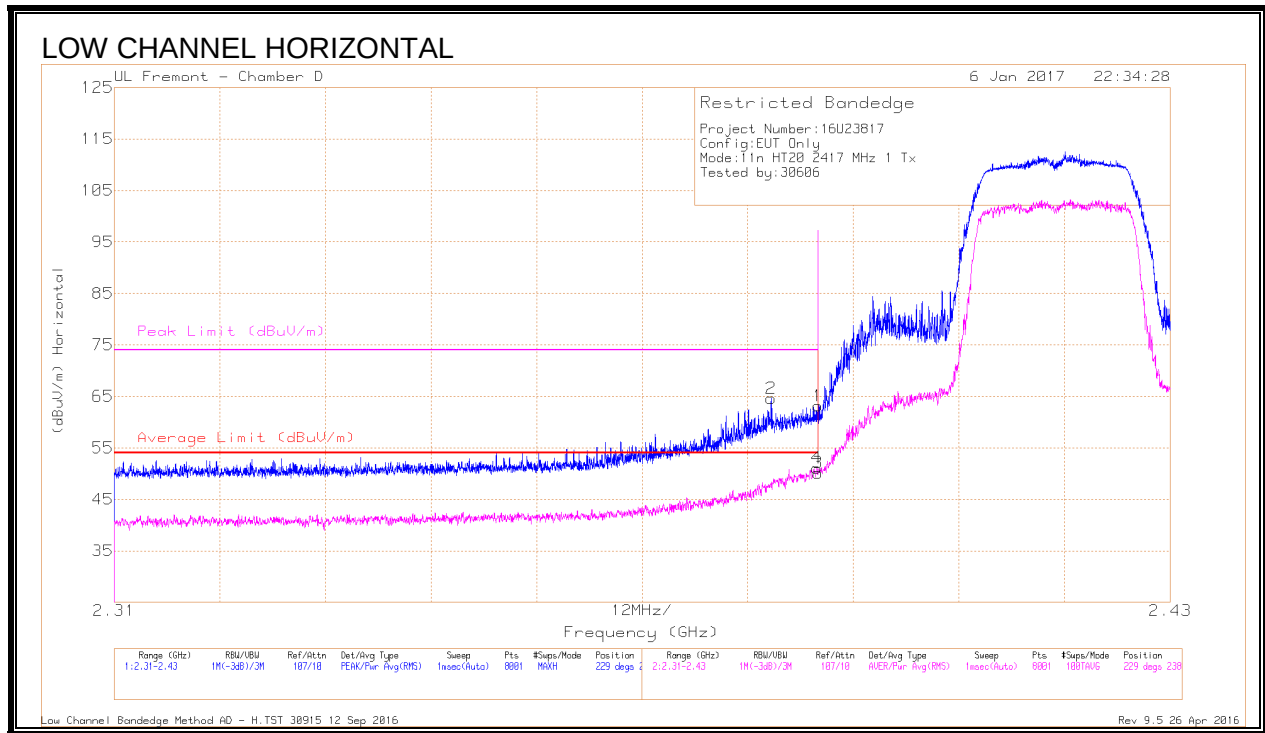
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.31	Pk	32.1	-20.7	51.71	-	-	74	-22.29	8	120	V
2	* 2.377	42.17	Pk	32	-20.8	53.37	-	-	74	-20.63	8	120	V
3	* 2.39	30.56	RMS	32.1	-20.7	41.96	54	-12.04	-	-	8	120	V
4	* 2.39	31.52	RMS	32.1	-20.8	42.82	54	-11.18	-	-	8	120	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (LOW CHANNEL, CH 2)



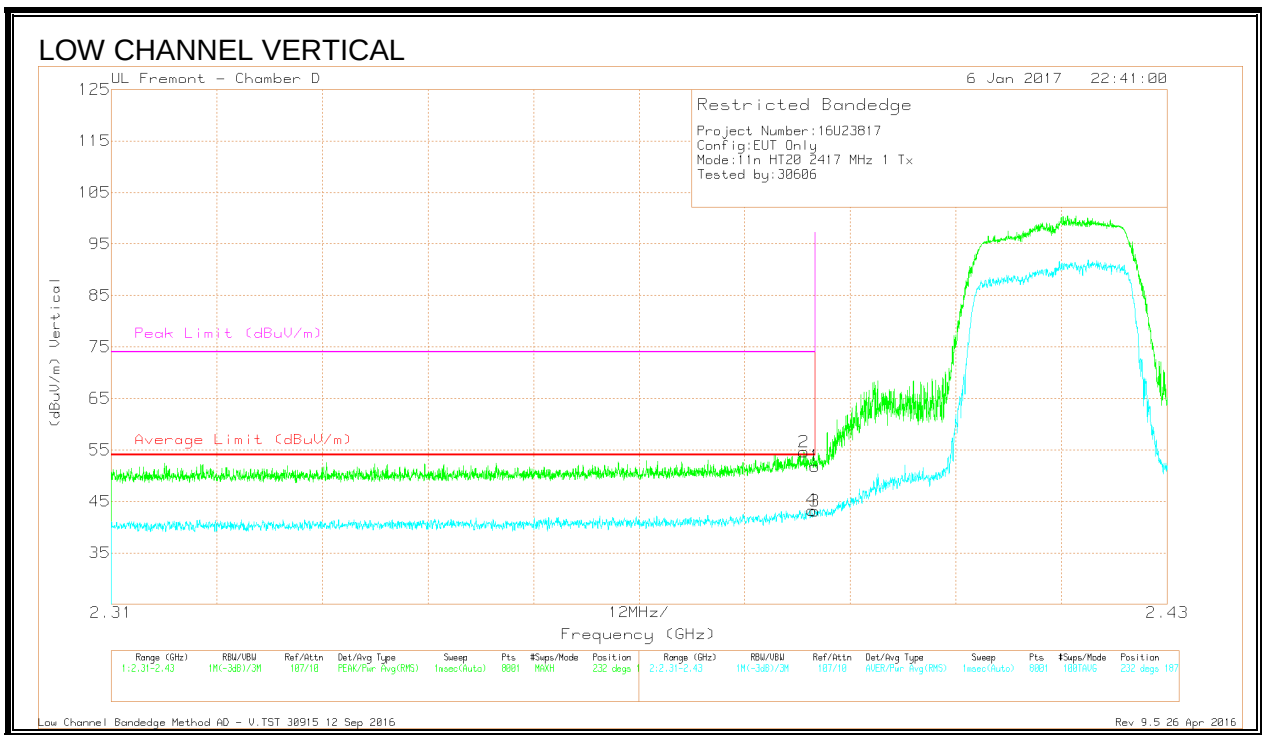
Trace Markers

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	* 2.39	51.75	Pk	32.1	-20.7	63.15	-	-	74	-10.85	229	238	H
2	* 2.385	53.3	Pk	32.1	-20.8	64.6	-	-	74	-9.4	229	238	H
3	* 2.39	38.76	RMS	32.1	-20.7	50.16	54	-3.84	-	-	229	238	H
4	* 2.39	39.71	RMS	32.1	-20.7	51.11	54	-2.89	-	-	229	238	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

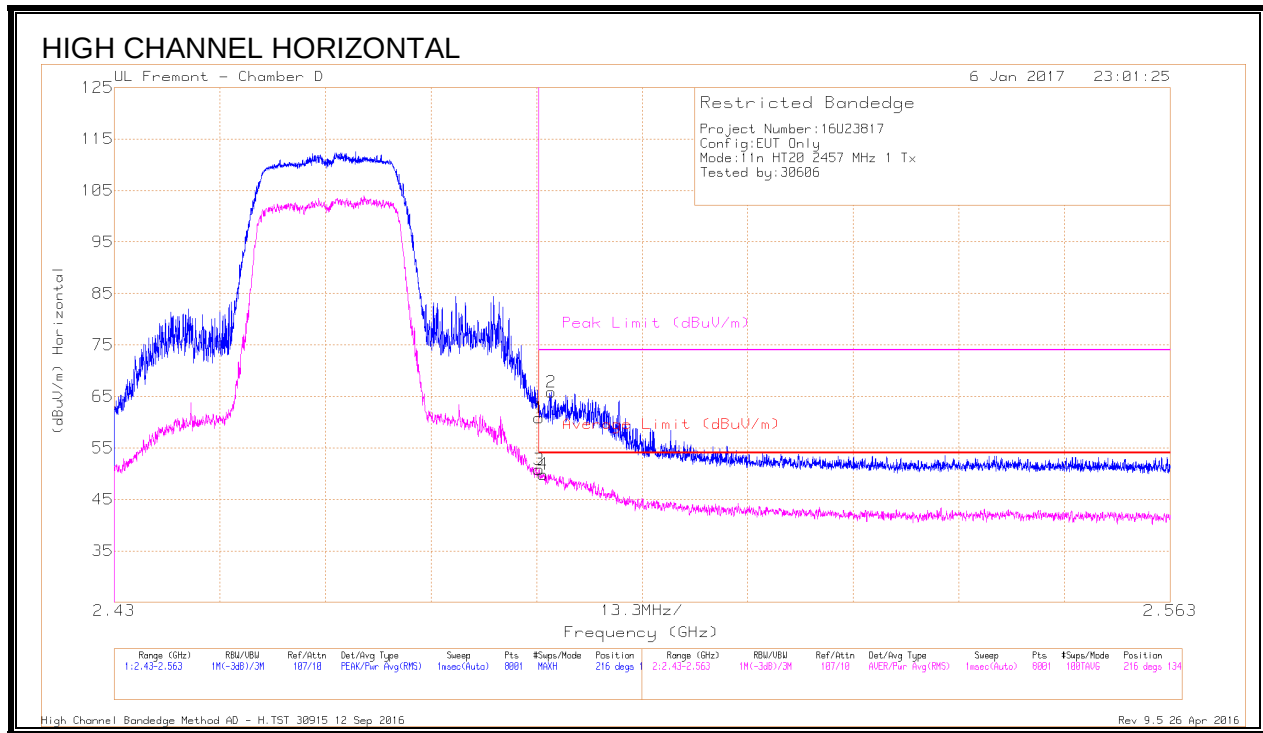
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cb/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.45	Pk	32.1	-20.7	51.85	-	-	74	-22.15	232	187	V
2	* 2.389	43.31	Pk	32.1	-20.8	54.61	-	-	74	-19.39	232	187	V
3	* 2.39	31.7	RMS	32.1	-20.7	43.1	54	-10.9	-	-	232	187	V
4	* 2.39	32	RMS	32.1	-20.8	43.3	54	-10.7	-	-	232	187	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 10)



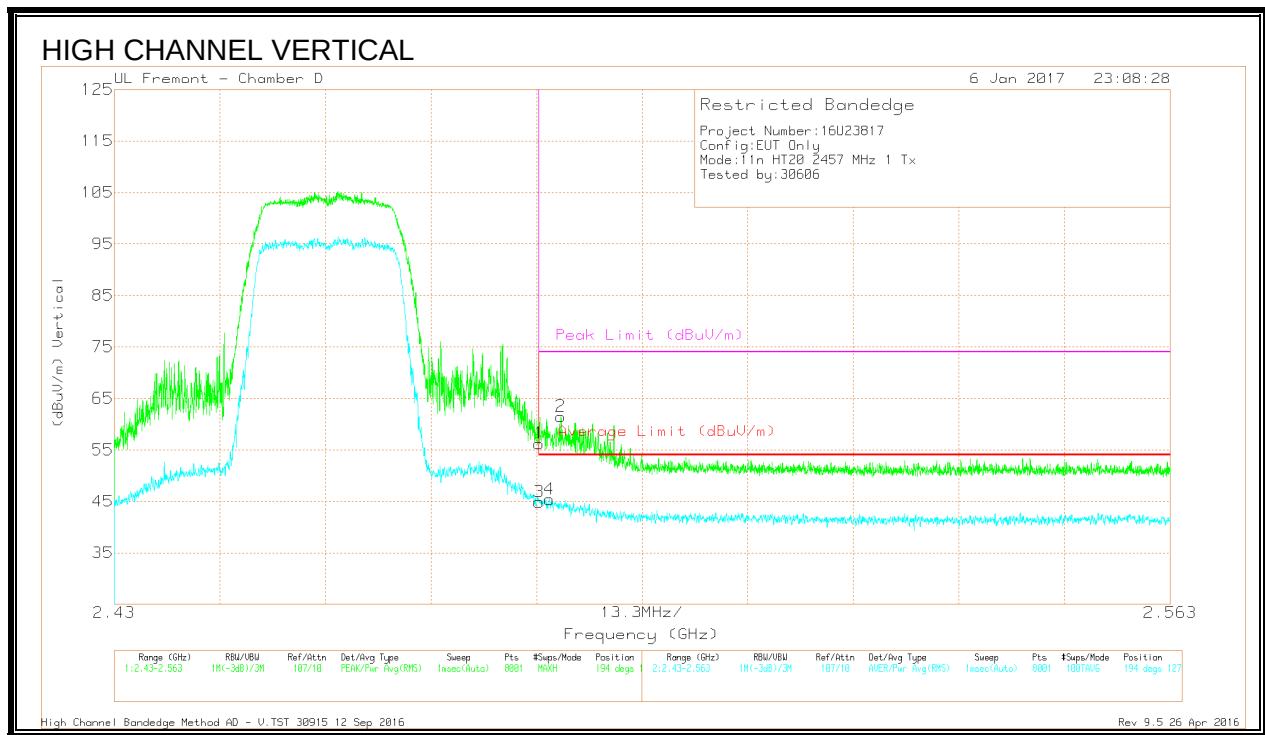
Trace Markers

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	49.34	Pk	32.3	-20.8	60.84	-	-	74	-13.16	216	134	H
2	* 2.485	54.33	Pk	32.3	-20.8	65.83	-	-	74	-8.17	216	134	H
3	* 2.484	39.3	RMS	32.3	-20.8	50.8	54	-3.2	-	-	216	134	H
4	* 2.484	38.39	RMS	32.3	-20.8	49.89	54	-4.11	-	-	216	134	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cb/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	44.75	Pk	32.3	-20.8	56.25	-	-	74	-17.75	194	127	V
2	* 2.486	49.98	Pk	32.3	-20.8	61.48	-	-	74	-12.52	194	127	V
3	* 2.484	33.41	RMS	32.3	-20.8	44.91	54	-9.09	-	-	194	127	V
4	* 2.485	33.9	RMS	32.3	-20.8	45.4	54	-8.6	-	-	194	127	V

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

Pk - Peak detector

RMS - RMS detection

UL Fremont - Chamber D

6 Jan 2017 23:26:39

Restricted Bandedge

Project Number: 16023817
Config: EUT Only
Mode: ITin HIT20 2462 MHz 1 Tx
Tested by: 30606

Peak Limit (dBu/m)

Average Limit (dBu/m)

13.3MHz/

Frequency (GHz)

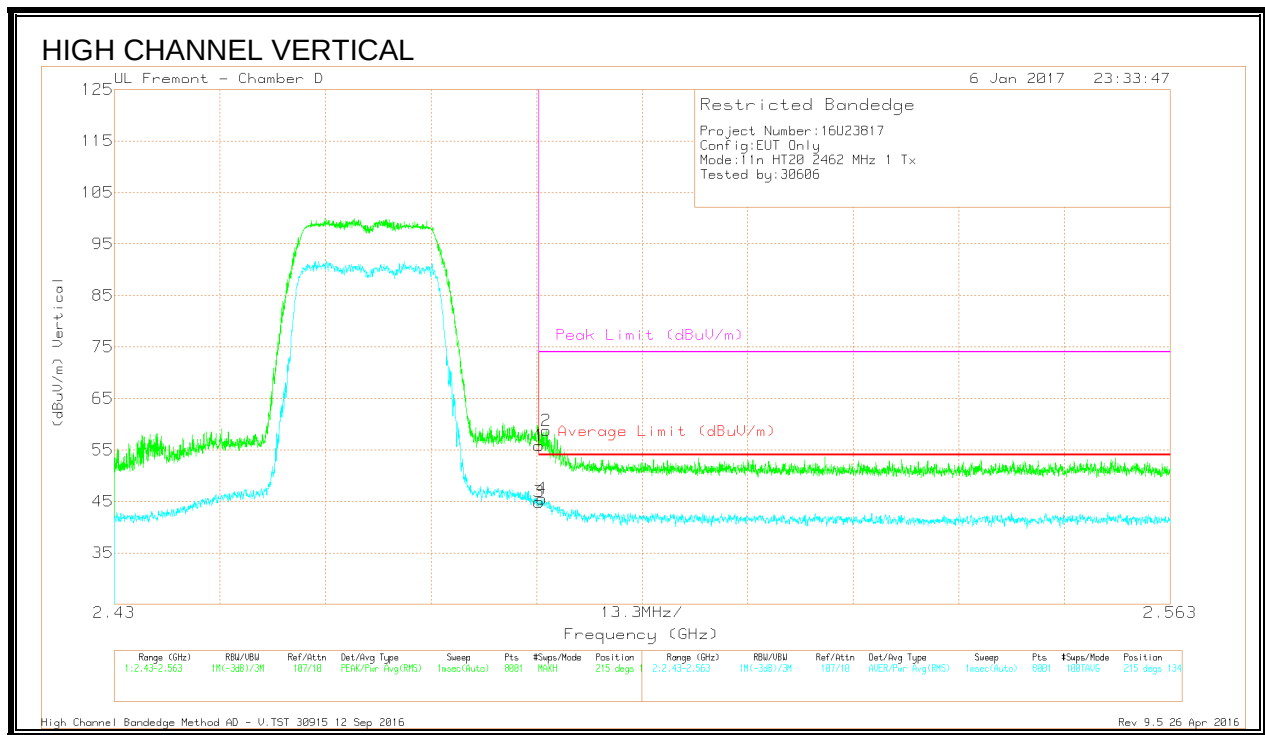
Range (GHz)	RBW/VBW	Ref/Bttn	Det/Avg Type	Sweep	Pts	#Sups/Mode	Position	Range (GHz)	RBW/VBW	Ref/Bttn	Det/Avg Type	Sweep	Pts	#Sups/Mode	Position
1.243-2.563	1M-3dB/3M	107/10	Peak/Avg Avg(RMS)	Insec(Auto)	8001	1000	231 degs 1	2.243-2.563	1M-3dB/3M	107/10	Avg/Avg Avg(RMS)	Insec(Auto)	8001	1000	231 degs 166

High Channel Bandedge Method A0 - H.TST 30915 12 Sep 2016

Rev 9.5 26 Apr 2016

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	53.51	Pk	32.3	-20.8	65.01	-	-	74	-8.99	231	166	H
2	* 2.486	53.61	Pk	32.3	-20.8	65.11	-	-	74	-8.89	231	166	H
3	* 2.484	38.55	RMS	32.3	-20.8	50.05	54	-3.95	-	-	231	166	H
4	* 2.484	39.03	RMS	32.3	-20.8	50.53	54	-3.47	-	-	231	166	H

RMS - RMS detection



Trace Markers

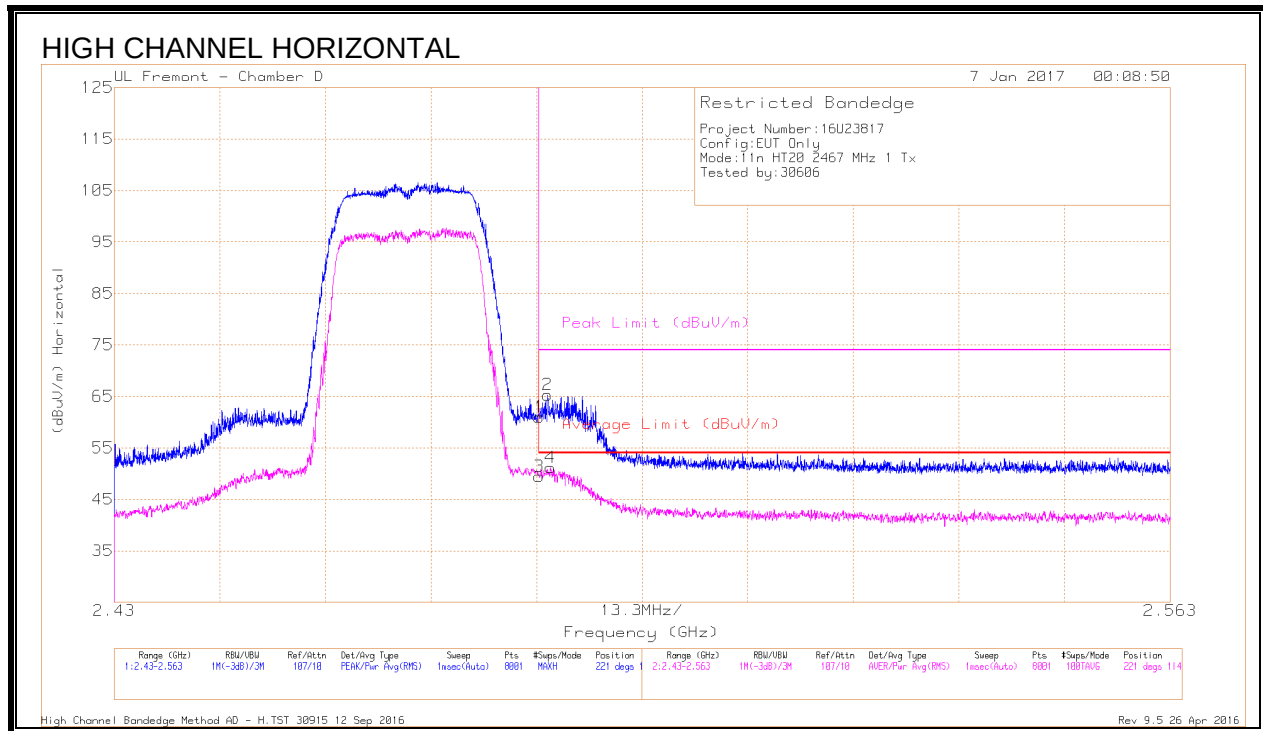
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cb/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	44.29	Pk	32.3	-20.8	55.79	-	-	74	-18.21	215	134	V
2	* 2.484	47.26	Pk	32.3	-20.8	58.76	-	-	74	-15.24	215	134	V
3	* 2.484	33.4	RMS	32.3	-20.8	44.9	54	-9.1	-	-	215	134	V
4	* 2.484	34.02	RMS	32.3	-20.8	45.52	54	-8.48	-	-	215	134	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 12)



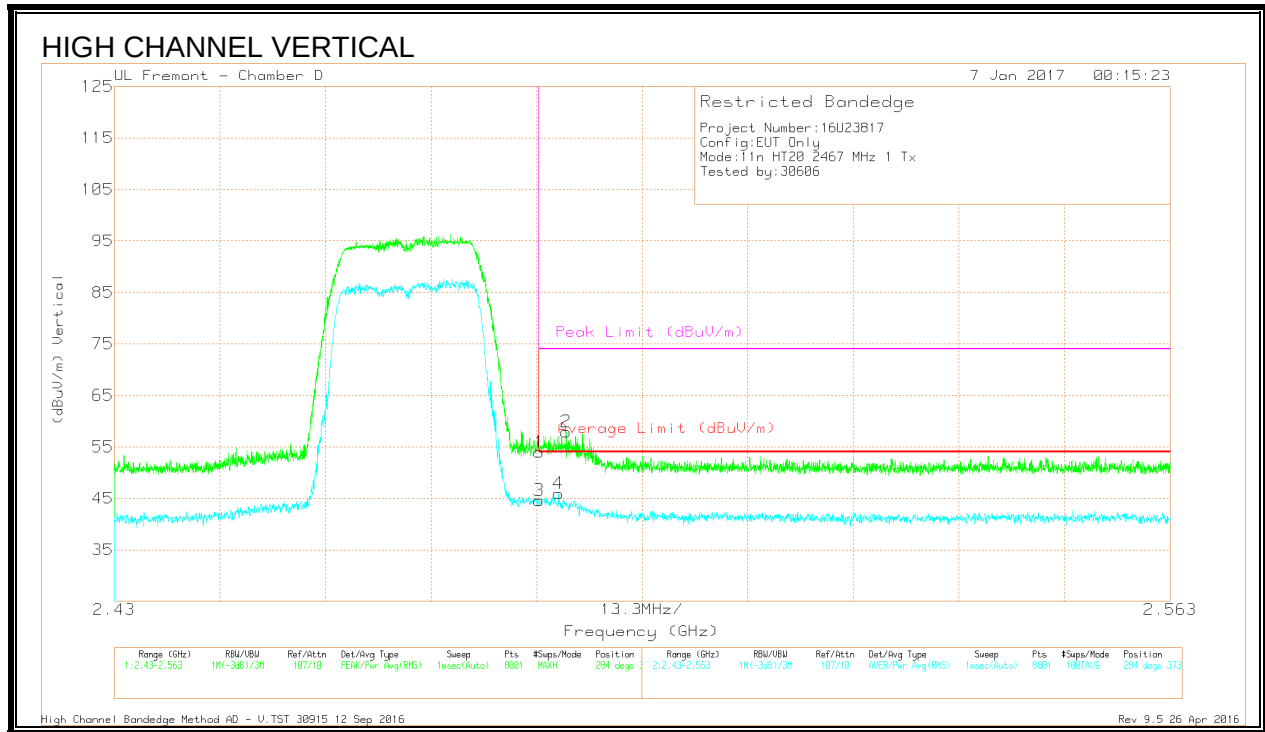
Trace Markers

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	49.47	Pk	32.3	-20.8	60.97	-	-	74	-13.03	221	114	H
2	* 2.485	53.8	Pk	32.3	-20.8	65.3	-	-	74	-8.7	221	114	H
3	* 2.484	37.95	RMS	32.3	-20.8	49.45	54	-4.55	-	-	221	114	H
4	* 2.485	39.66	RMS	32.3	-20.8	51.16	54	-2.84	-	-	221	114	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

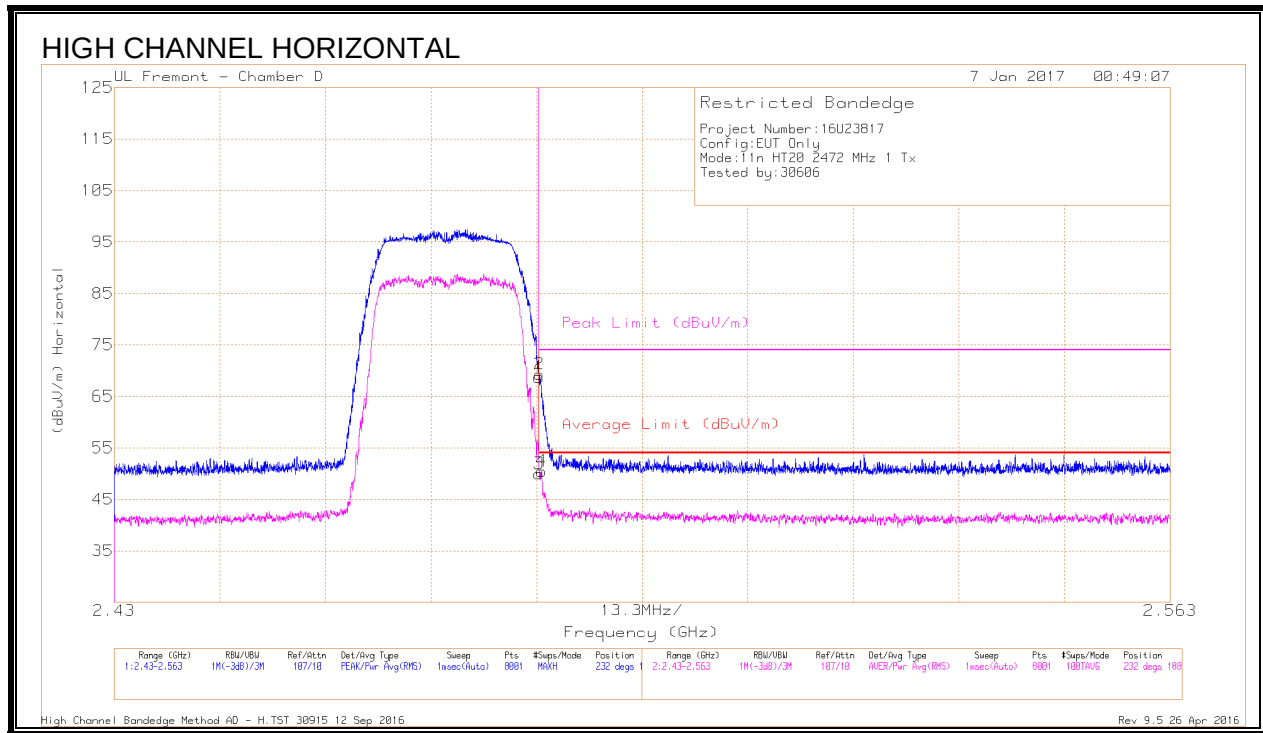
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.46	Pk	32.3	-20.8	53.96	-	-	74	-20.04	284	373	V
2	* 2.487	46.45	Pk	32.3	-20.8	57.95	-	-	74	-16.05	284	373	V
3	* 2.484	33.11	RMS	32.3	-20.8	44.61	54	-9.39	-	-	284	373	V
4	* 2.486	34.45	RMS	32.3	-20.8	45.95	54	-8.05	-	-	284	373	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 13)



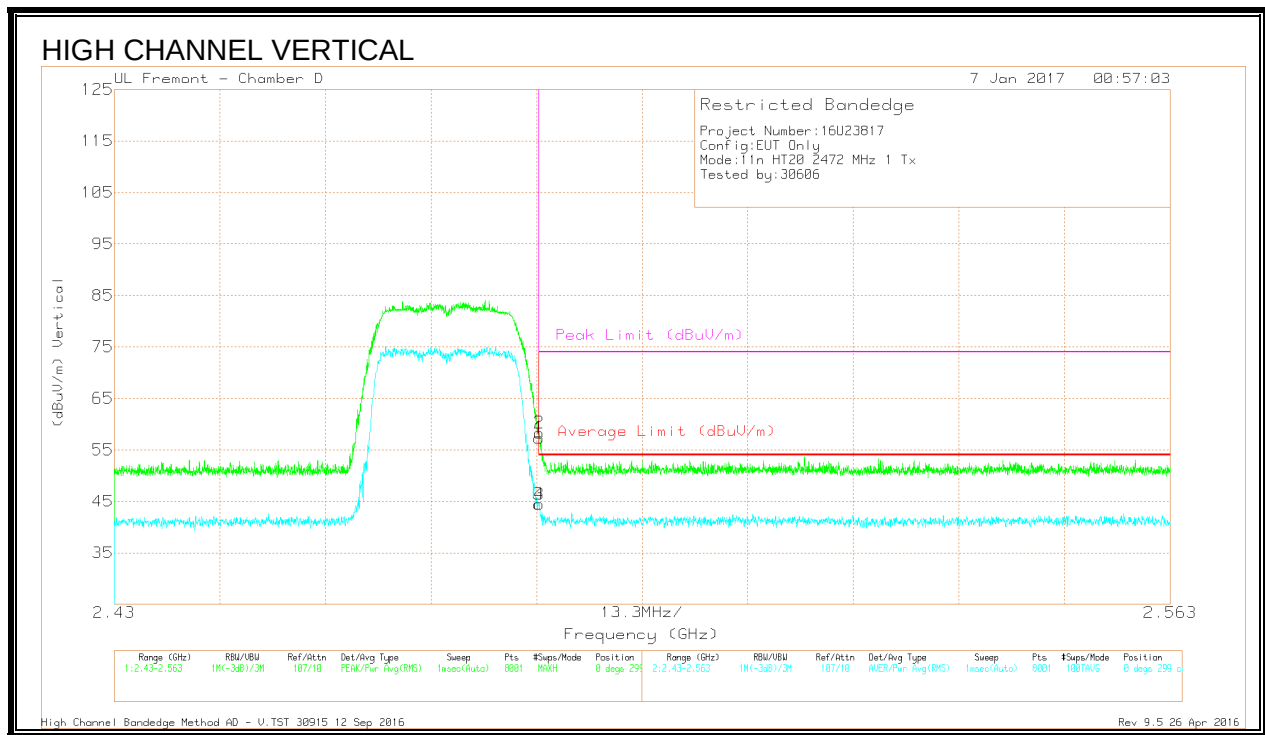
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/C bl/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	57.23	Pk	32.3	-20.8	68.73	-	-	74	-5.27	232	188	H
2	* 2.484	57.82	Pk	32.3	-20.8	69.32	-	-	74	-4.68	232	188	H
3	* 2.484	38.51	RMS	32.3	-20.8	50.01	54	-3.99	-	-	232	188	H
4	* 2.484	38.99	RMS	32.3	-20.8	50.49	54	-3.51	-	-	232	188	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

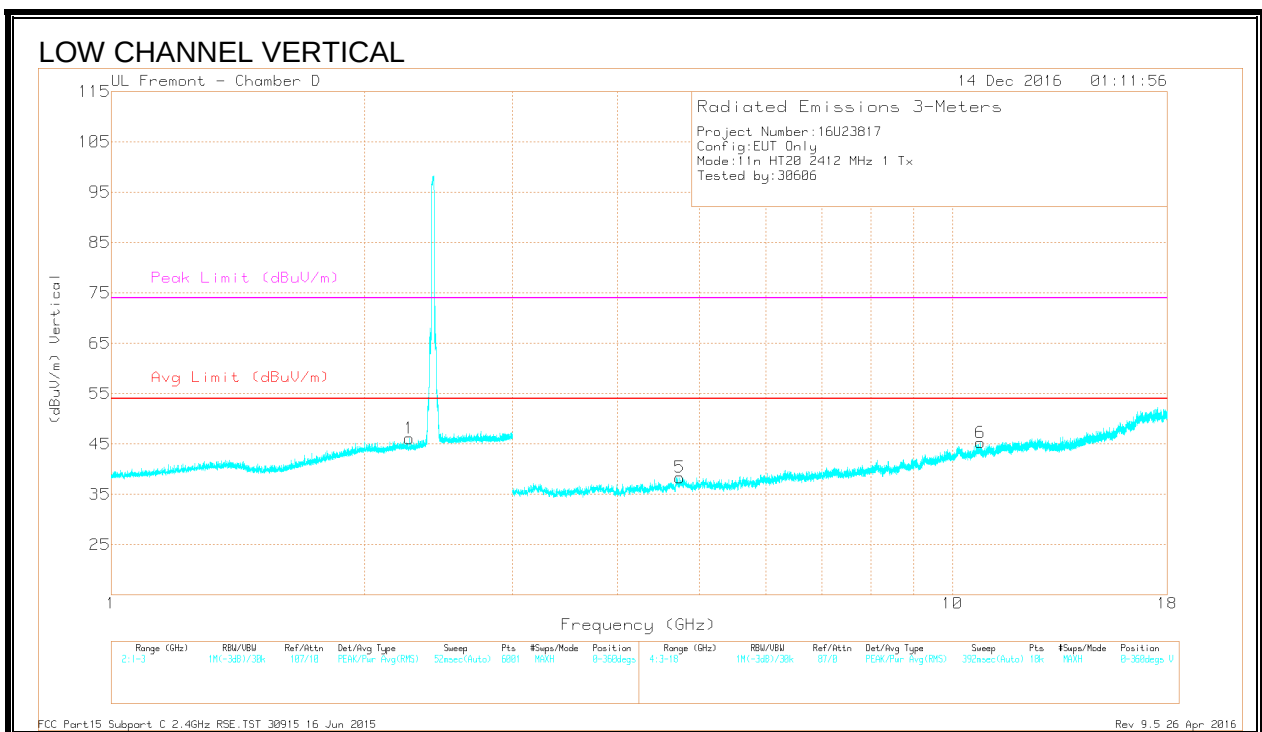
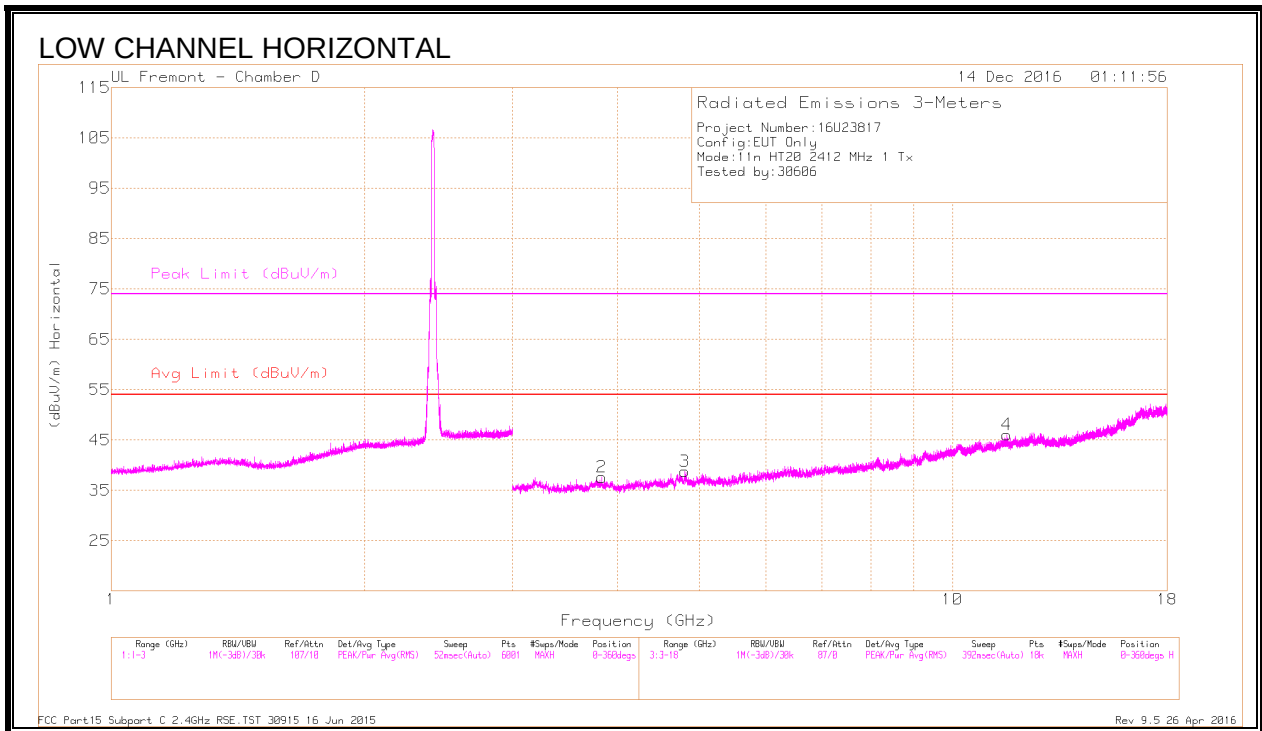
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/C b/Filtr/ Pad (dB)	Correct ed Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	45.84	Pk	32.3	-20.8	57.34	-	-	74	-16.66	0	299	V
2	* 2.484	46.82	Pk	32.3	-20.8	58.32	-	-	74	-15.68	0	299	V
3	* 2.484	32.93	RMS	32.3	-20.8	44.43	54	-9.57	-	-	0	299	V
4	* 2.484	32.94	RMS	32.3	-20.8	44.44	54	-9.56	-	-	0	299	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)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT712 (dB/m)	Amp/Cbl/Filtr/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	* 2.262	41.56	PK2	31.5	-21	52.06	-	-	74	-21.94	264	262	V
	* 2.26	30.08	MAv1	31.5	-21	40.58	54	-13.42	-	-	264	262	V
2	* 3.829	38.43	PK2	33.5	-28.5	43.43	-	-	74	-30.57	0	192	H
	* 3.829	27.95	MAv1	33.5	-28.5	32.95	54	-21.05	-	-	0	192	H
3	* 4.808	38.07	PK2	34.1	-26.8	45.37	-	-	74	-28.63	228	167	H
	* 4.809	26.94	MAv1	34.1	-26.8	34.24	54	-19.76	-	-	228	167	H
4	* 11.599	33.7	PK2	38.5	-20.6	51.6	-	-	74	-22.4	190	310	H
	* 11.596	23.37	MAv1	38.5	-20.6	41.27	54	-12.73	-	-	190	310	H
5	* 4.74	37	PK2	34	-26.9	44.1	-	-	74	-29.9	297	264	V
	* 4.744	26.14	MAv1	34	-26.6	33.54	54	-20.46	-	-	297	264	V
6	* 10.792	33.82	PK2	37.9	-20.2	51.52	-	-	74	-22.48	346	292	V
	* 10.791	23.38	MAv1	37.9	-20.2	41.08	54	-12.92	-	-	346	292	V

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

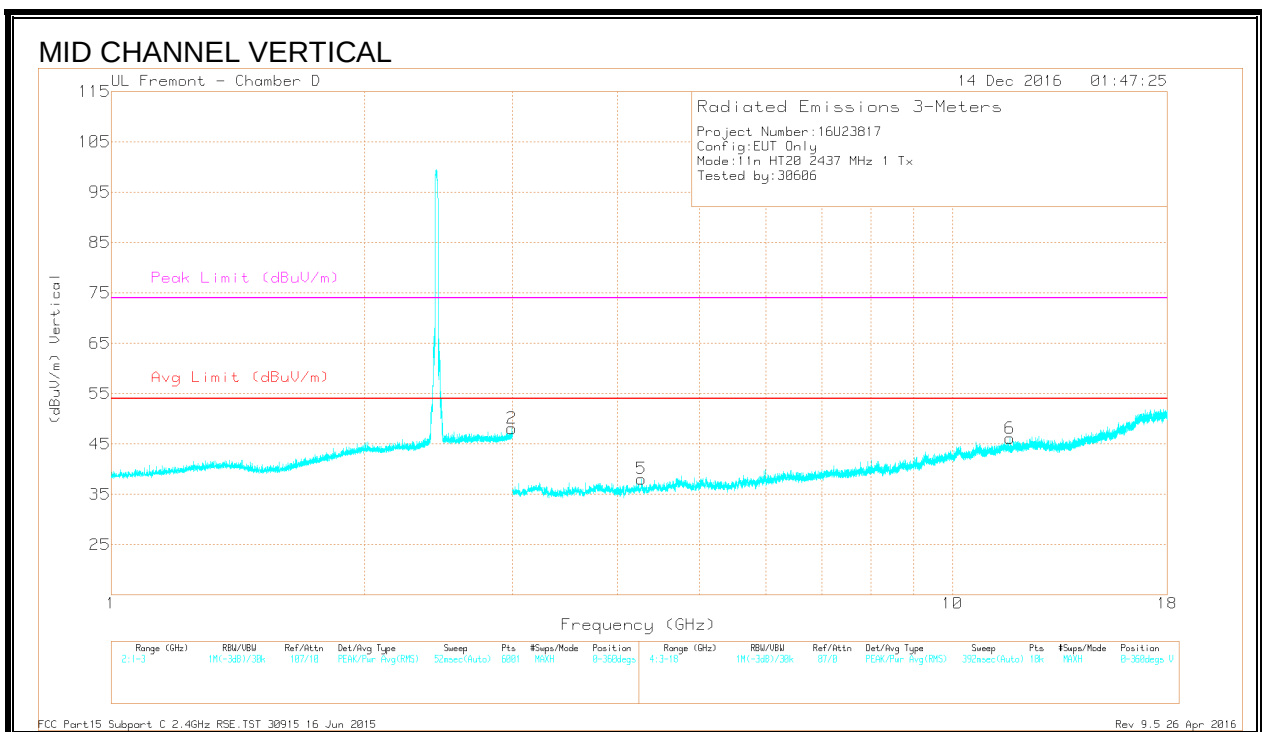
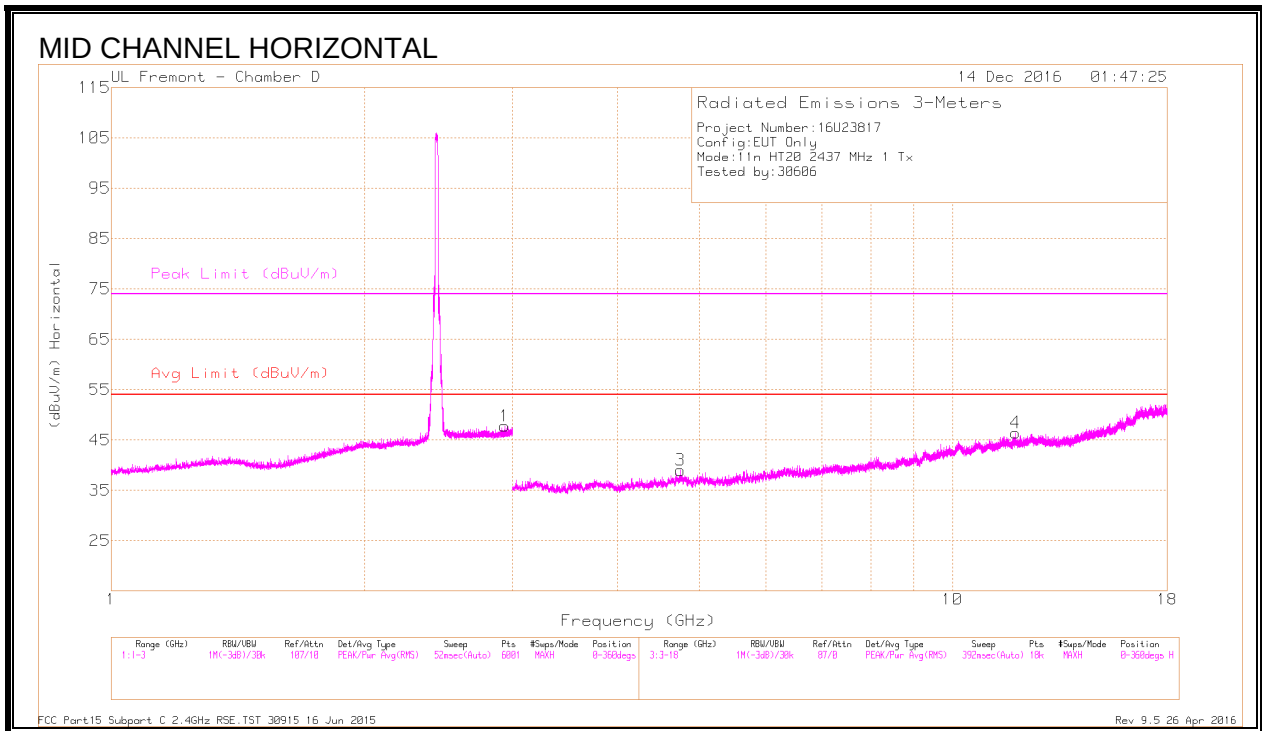
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15 Subpart C 2.4GHz RSE.TST 30915 16 Jun 2015

Rev 9.5 26 Apr 2016

HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL, CH 6)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT712 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 4.745	37.62	PK2	34	-26.5	45.12	-	-	74	-28.88	4	388	H
	* 4.745	26.26	MAv1	34	-26.5	33.76	54	-20.24	-	-	4	388	H
4	* 11.881	33.69	PK2	38.8	-20.7	51.79	-	-	74	-22.21	155	219	H
	* 11.881	23.28	MAv1	38.8	-20.6	41.48	54	-12.52	-	-	155	219	H
5	* 4.269	38.27	PK2	33.5	-27.7	44.07	-	-	74	-29.93	267	108	V
	* 4.269	27.21	MAv1	33.5	-27.7	33.01	54	-20.99	-	-	267	108	V
6	* 11.698	34.62	PK2	38.6	-21	52.22	-	-	74	-21.78	303	312	V
	* 11.698	23.38	MAv1	38.6	-21	40.98	54	-13.02	-	-	303	312	V
1	2.935	41.49	PK2	32.5	-20.2	53.79	-	-	-	-	114	198	H
2	2.992	41.56	PK2	32.6	-20.1	54.06	-	-	-	-	243	171	V

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

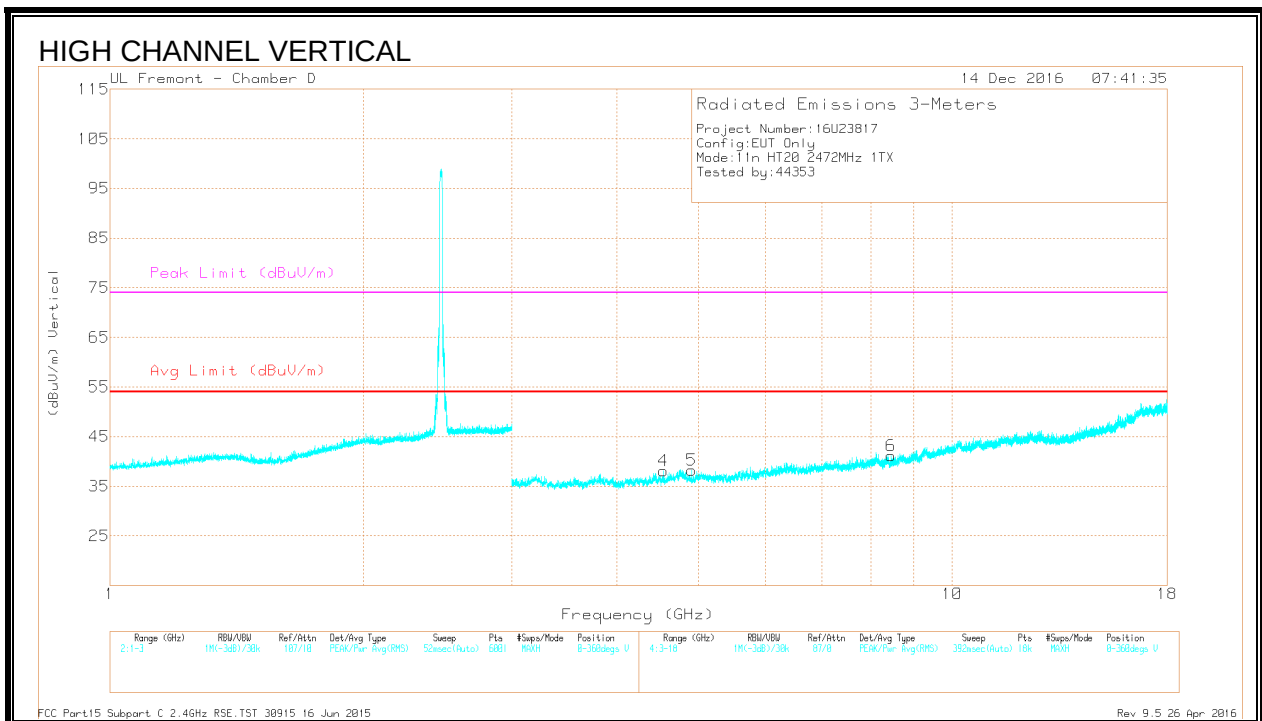
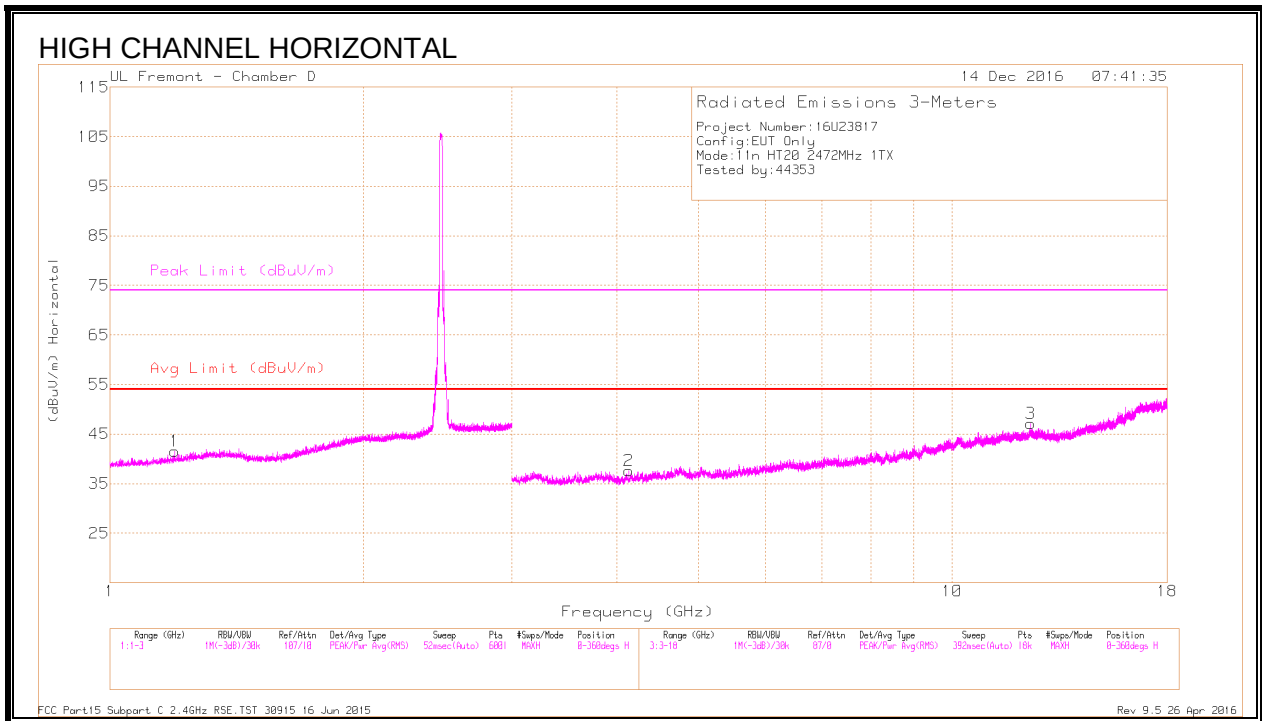
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15 Subpart C 2.4GHz RSE.TST 30915 16 Jun 2015

Rev 9.5 26 Apr 2016

HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL, CH 13)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT712 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.194	41.51	PK2	28.1	-22.4	47.21	-	-	74	-26.79	232	159	H
	* 1.193	30.97	MAv1	28.1	-22.4	36.67	54	-17.33	-	-	232	159	H
2	* 4.13	38.66	PK2	33.5	-28.1	44.06	-	-	74	-29.94	78	295	H
	* 4.132	27.6	MAv1	33.5	-28.1	33	54	-20	-	-	78	295	H
3	* 12.385	35	PK2	39	-20.4	53.6	-	-	74	-20.4	312	193	H
	* 12.385	23.99	MAv1	39	-20.4	42.59	54	-11.41	-	-	312	193	H
4	* 4.537	37.72	PK2	34	-27.9	43.82	-	-	74	-30.18	145	137	V
	* 4.538	28.1	MAv1	34	-27.9	34.2	54	-19.8	-	-	145	137	V
5	* 4.905	37.22	PK2	34.1	-28.1	43.22	-	-	74	-30.78	187	305	V
	* 4.905	27.56	MAv1	34.1	-28.1	33.56	54	-20.44	-	-	187	305	V
6	* 8.453	35.5	PK2	35.8	-23.7	47.6	-	-	74	-26.4	110	288	V
	* 8.454	25.16	MAv1	35.8	-23.7	37.26	54	-16.74	-	-	110	288	V

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

PK2 - KDB558074 Method: Maximum Peak

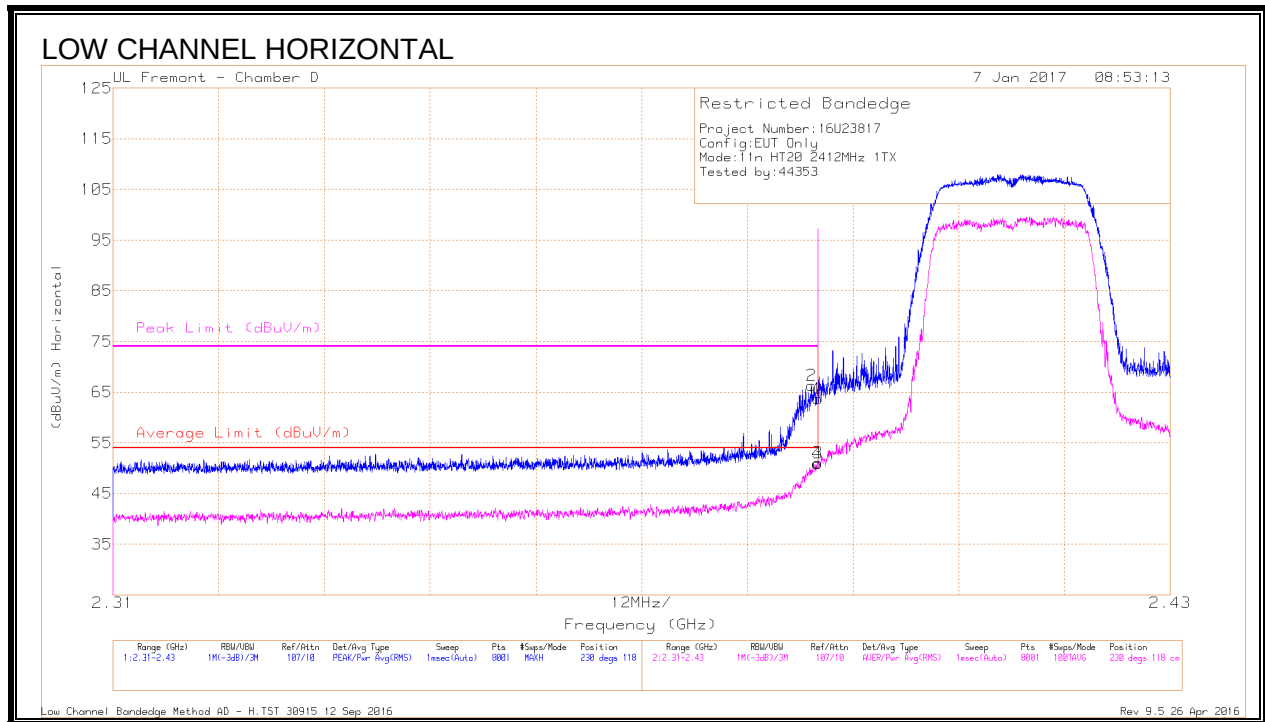
MAv1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15 Subpart C 2.4GHz RSE.TST 30915 16 Jun 2015

Rev 9.5 26 Apr 2016

10.2.4. 11n HT20 ANTENNA B SISO MODE IN THE 2.4GHz BAND

AUTHORIZED BANDEDGE (LOW CHANNEL, CH 1)



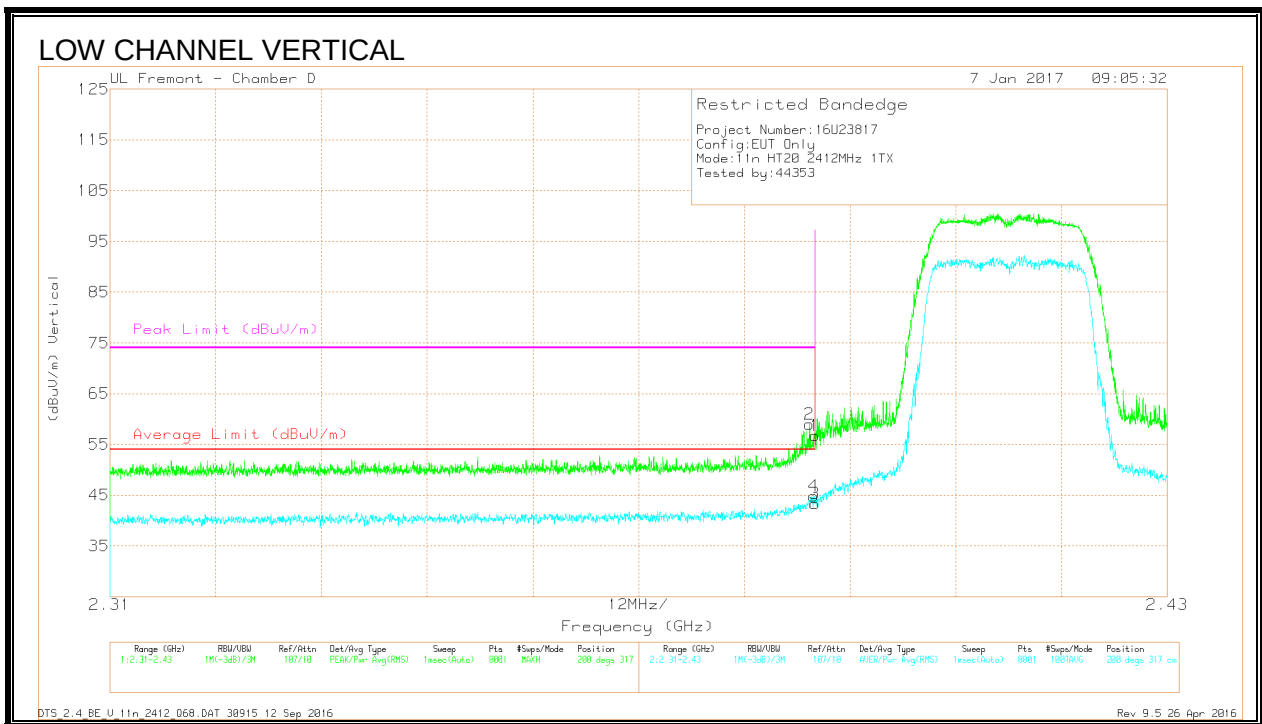
Trace Markers

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	* 2.39	52.26	Pk	32.1	-20.7	63.66	-	-	74	-10.34	230	118	H
2	* 2.389	55.04	Pk	32.1	-20.8	66.34	-	-	74	-7.66	230	118	H
3	* 2.39	39.59	RMS	32.1	-20.7	50.99	54	-3.01	-	-	230	118	H
4	* 2.39	39.51	RMS	32.1	-20.7	50.91	54	-3.09	-	-	230	118	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

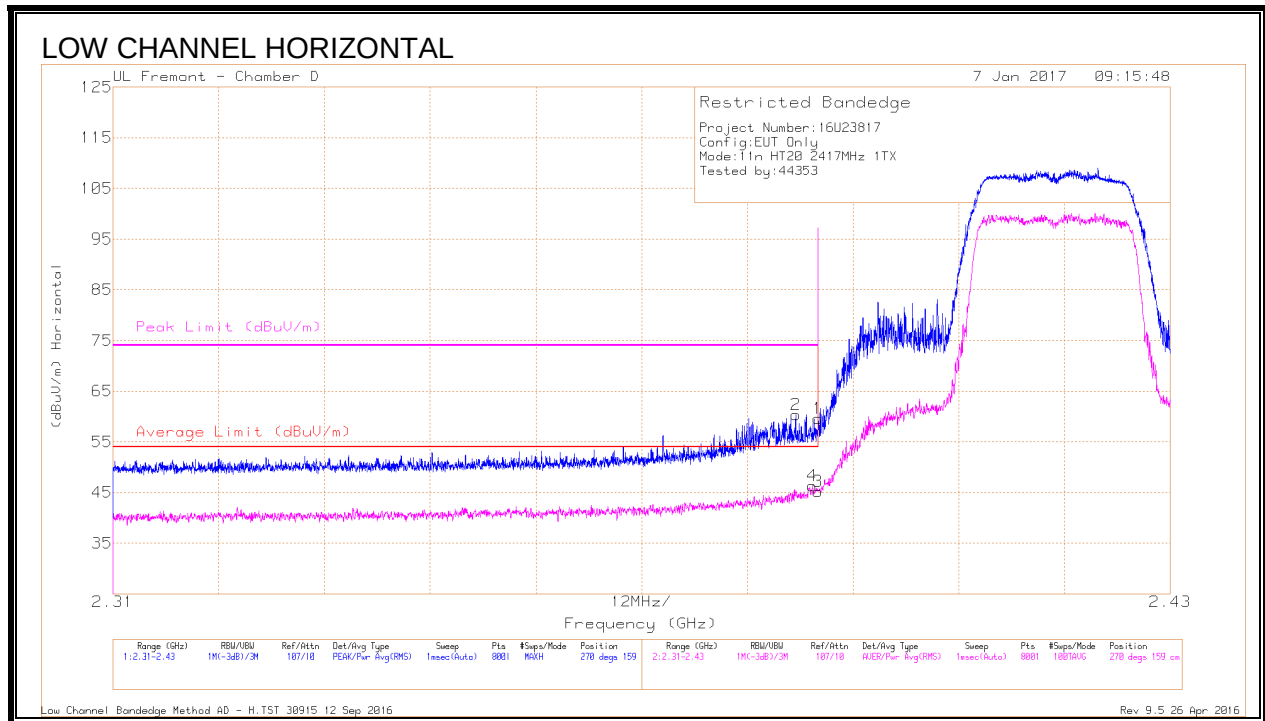
Marker	Frequ ncy (GHz)	Meter Readin g (dBuV)	Det	AF T712 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Correct ed Readin g (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimet h (Degs)	Height (cm)	Polarity
1	* 2.39	45.37	Pk	32.1	-20.7	56.77	-	-	74	-17.23	200	317	V
2	* 2.389	47.66	Pk	32.1	-20.8	58.96	-	-	74	-15.04	200	317	V
3	* 2.39	31.96	RMS	32.1	-20.7	43.36	54	-10.64	-	-	200	317	V
4	* 2.39	33.45	RMS	32.1	-20.7	44.85	54	-9.15	-	-	200	317	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (LOW CHANNEL, CH 2)



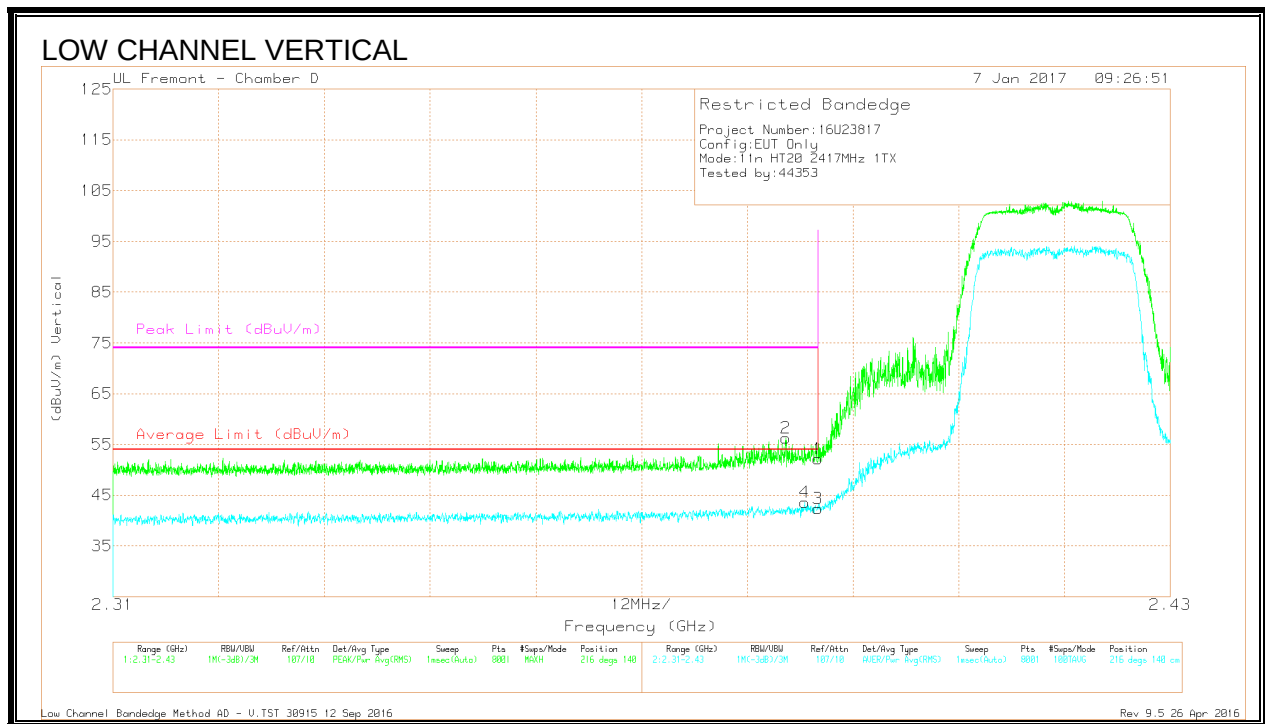
Trace Markers

Marker	Frequ ncy (GHz)	Meter Readin g (dBuV)	Det	AF T712 (dB/m)	Amp/C bl/Fitr/ Pad (dB)	Correct ed Readin g (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimat h (Degs)	Height (cm)	Polarity
1	* 2.39	48.24	Pk	32.1	-20.7	59.64	-	-	74	-14.36	270	159	H
2	* 2.388	49.03	Pk	32.1	-20.8	60.33	-	-	74	-13.67	270	159	H
3	* 2.39	33.76	RMS	32.1	-20.7	45.16	54	-8.84	-	-	270	159	H
4	* 2.389	34.97	RMS	32.1	-20.8	46.27	54	-7.73	-	-	270	159	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

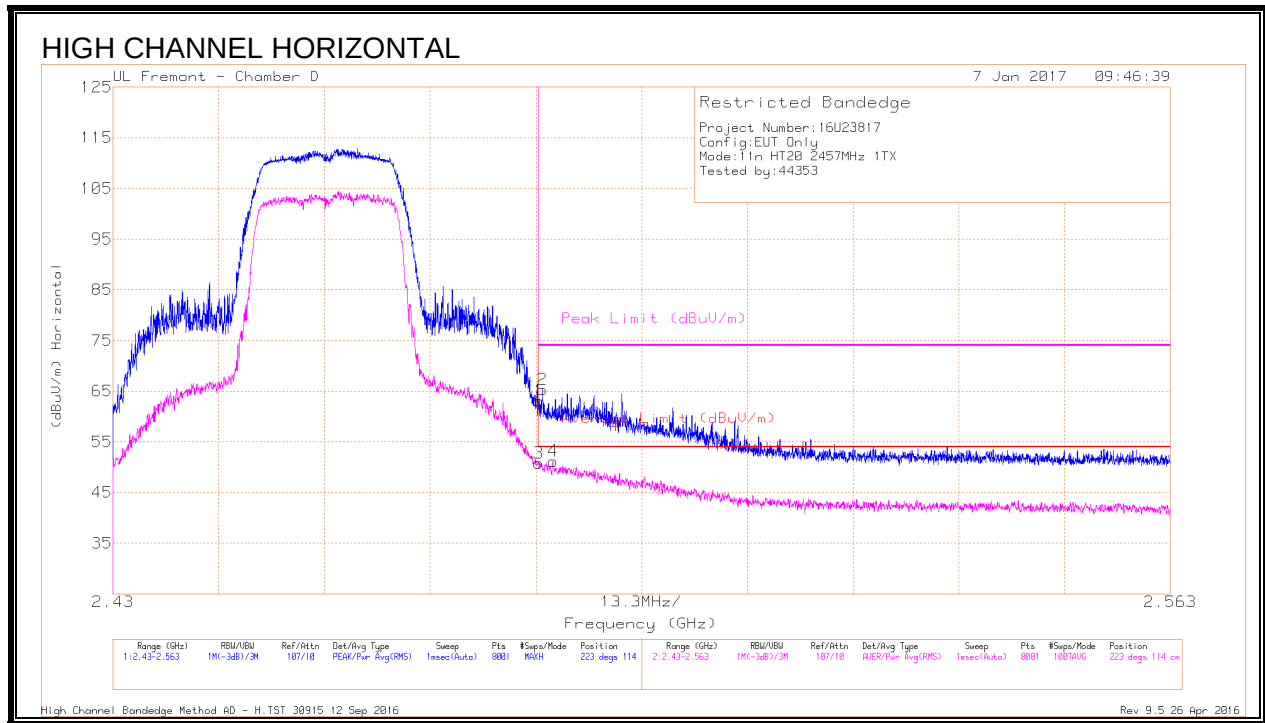
Marker	Frequ ncy (GHz)	Meter Readin g (dBuV)	Det	AF T712 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Correct ed Readin g (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimet h (Degs)	Height (cm)	Polarity
1	* 2.39	40.79	Pk	32.1	-20.7	52.19	-	-	74	-21.81	216	140	V
2	* 2.386	44.93	Pk	32.1	-20.8	56.23	-	-	74	-17.77	216	140	V
3	* 2.39	30.93	RMS	32.1	-20.7	42.33	54	-11.67	-	-	216	140	V
4	* 2.389	32.28	RMS	32.1	-20.8	43.58	54	-10.42	-	-	216	140	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 10)



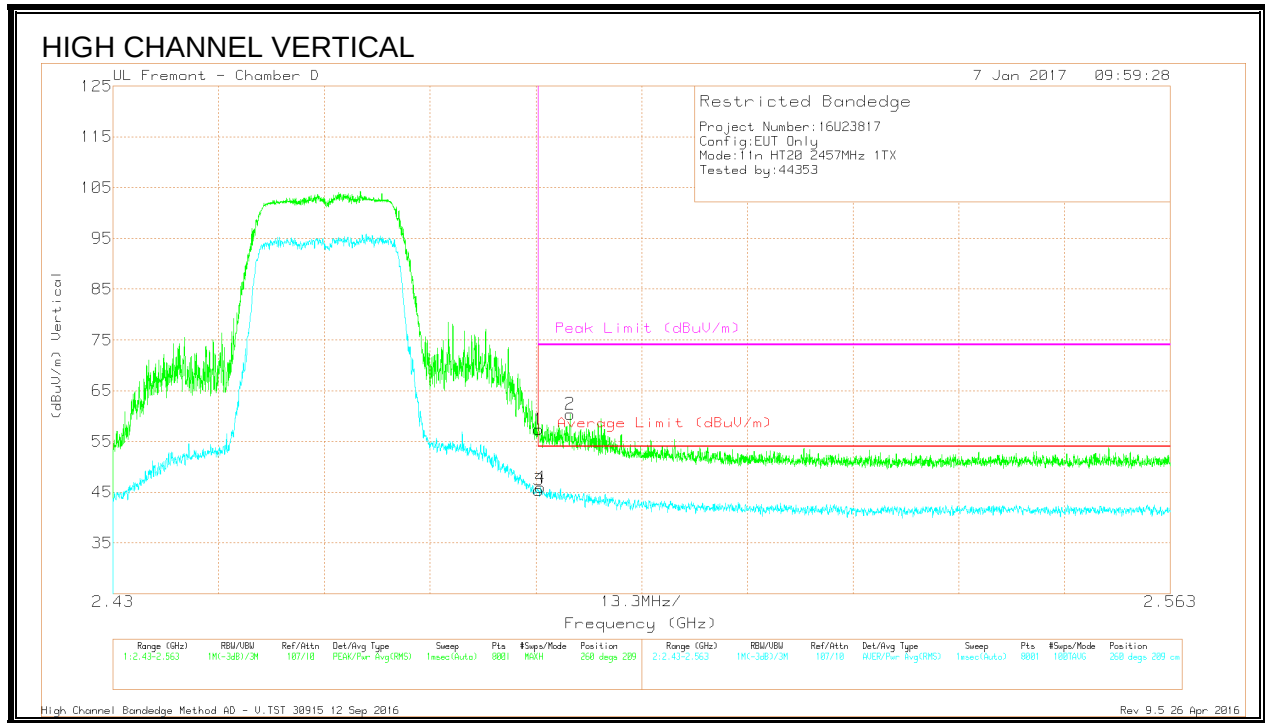
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cb/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	51.53	Pk	32.3	-20.8	63.03	-	-	74	-10.97	223	114	H
2	* 2.484	53.76	Pk	32.3	-20.8	65.26	-	-	74	-8.74	223	114	H
3	* 2.484	39.32	RMS	32.3	-20.8	50.82	54	-3.18	-	-	223	114	H
4	* 2.485	39.72	RMS	32.3	-20.8	51.22	54	-2.78	-	-	223	114	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

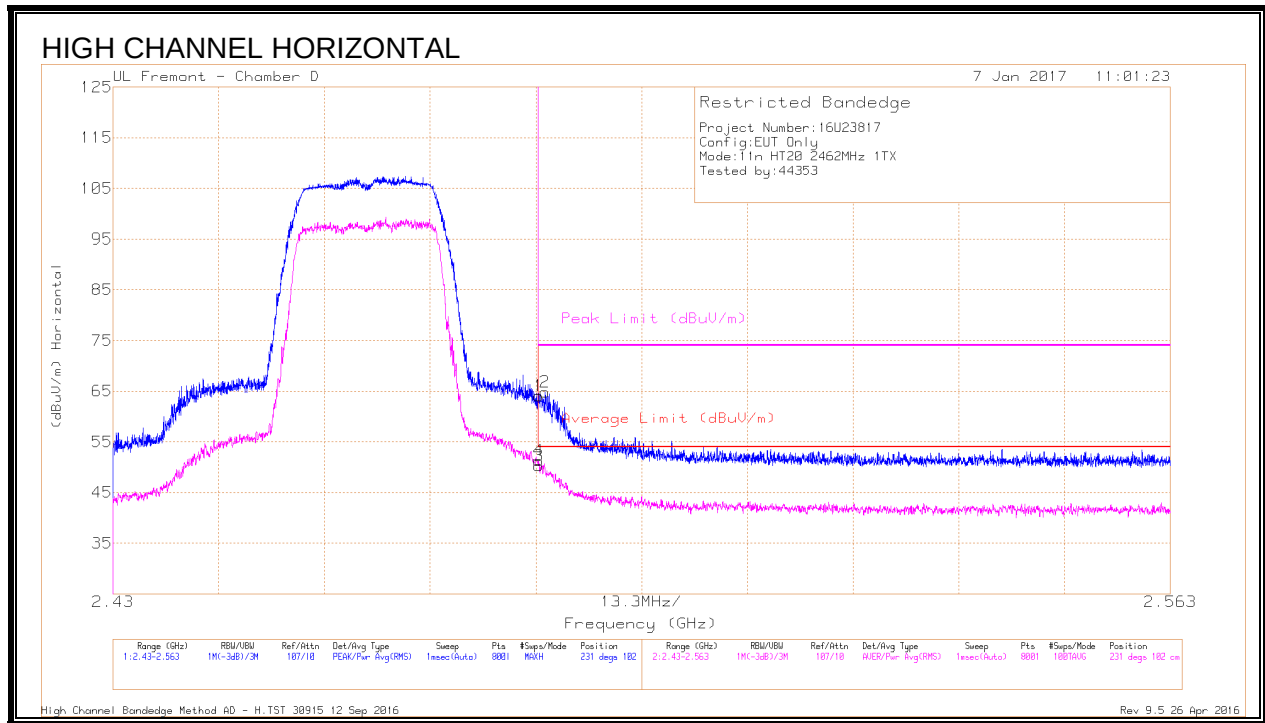
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	45.87	Pk	32.3	-20.8	57.37	-	-	74	-16.63	260	209	V
2	* 2.487	48.91	Pk	32.3	-20.8	60.41	-	-	74	-13.59	260	209	V
3	* 2.484	33.89	RMS	32.3	-20.8	45.39	54	-8.61	-	-	260	209	V
4	* 2.484	34.41	RMS	32.3	-20.8	45.91	54	-8.09	-	-	260	209	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 11)



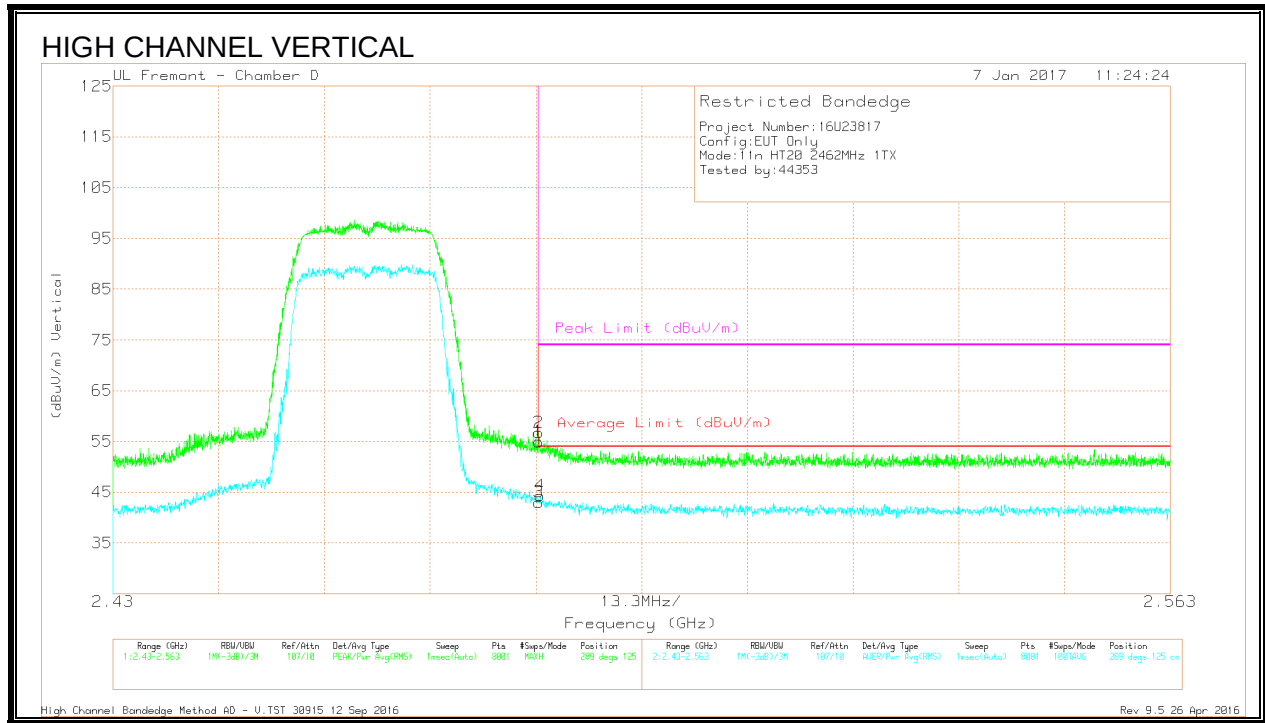
Trace Markers

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	52.57	Pk	32.3	-20.8	64.07	-	-	74	-9.93	231	102	H
2	* 2.484	53.37	Pk	32.3	-20.8	64.87	-	-	74	-9.13	231	102	H
3	* 2.484	38.84	RMS	32.3	-20.8	50.34	54	-3.66	-	-	231	102	H
4	* 2.484	39.74	RMS	32.3	-20.8	51.24	54	-2.76	-	-	231	102	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

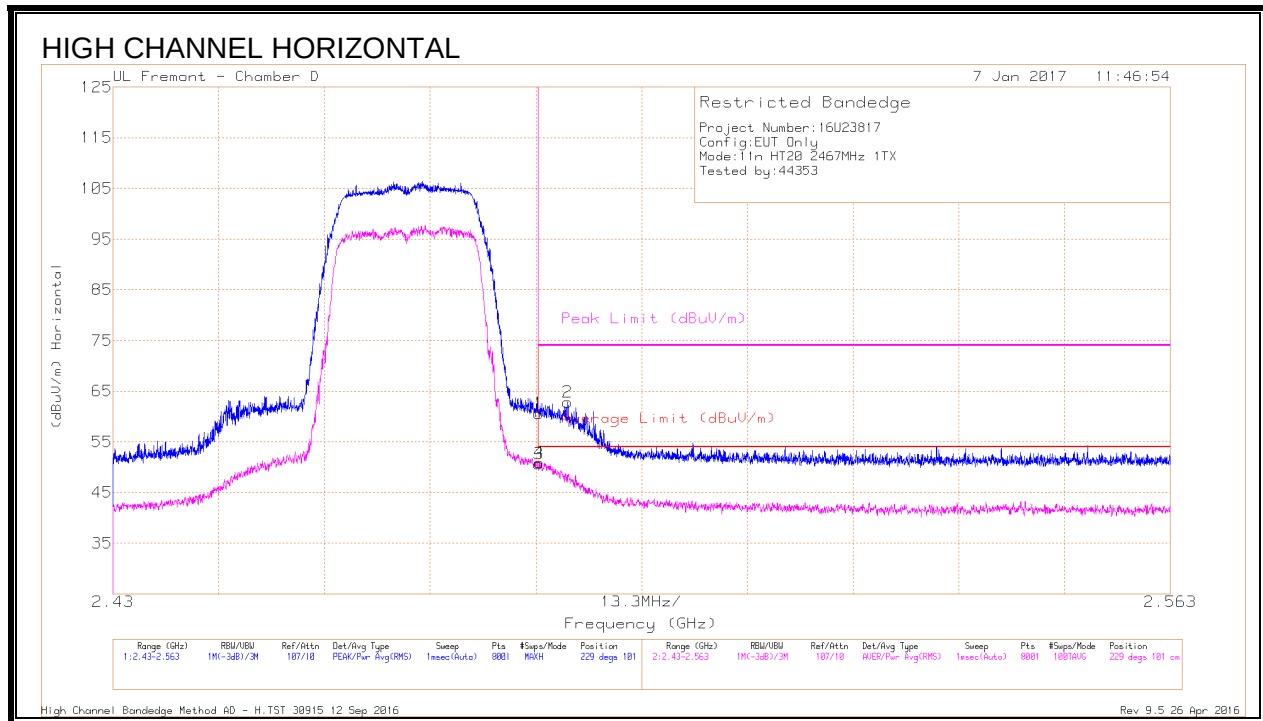
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	43.45	Pk	32.3	-20.8	54.95	-	-	74	-19.05	289	125	V
2	* 2.484	45.24	Pk	32.3	-20.8	56.74	-	-	74	-17.26	289	125	V
3	* 2.484	31.53	RMS	32.3	-20.8	43.03	54	-10.97	-	-	289	125	V
4	* 2.484	32.87	RMS	32.3	-20.8	44.37	54	-9.63	-	-	289	125	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 12)



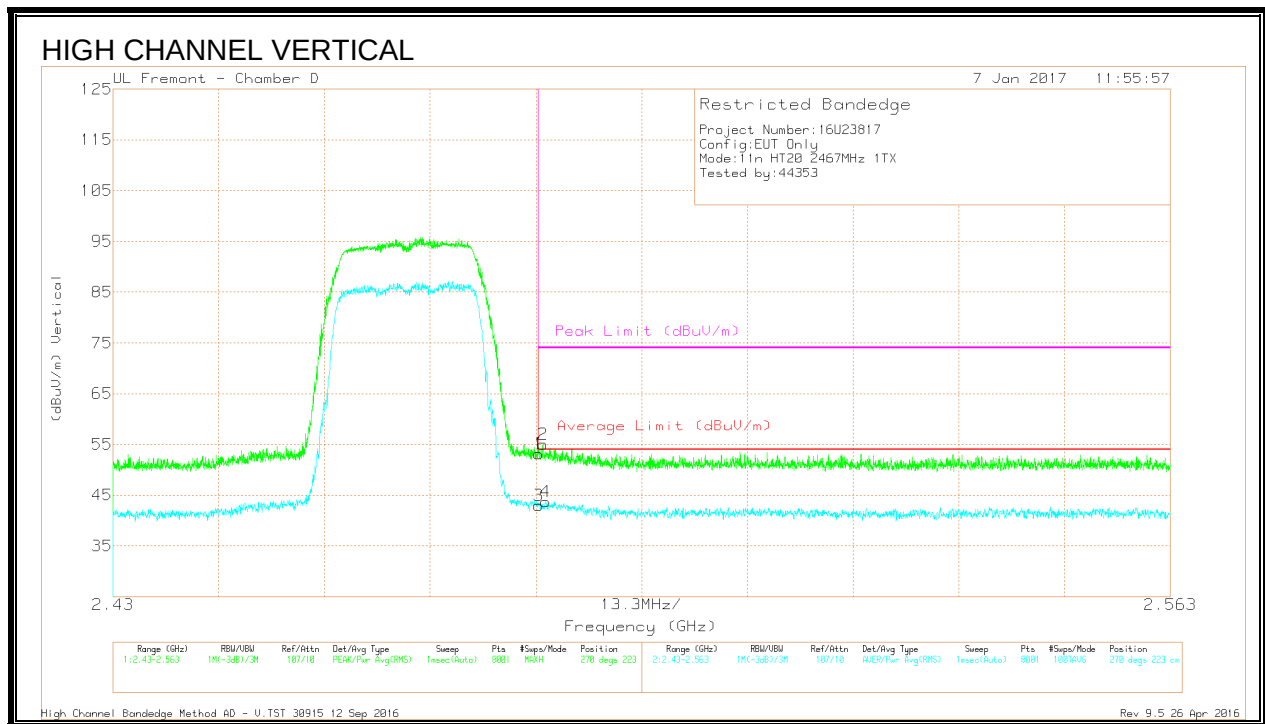
Trace Markers

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	49.05	Pk	32.3	-20.8	60.55	-	-	74	-13.45	229	101	H
2	* 2.487	51.28	Pk	32.3	-20.8	62.78	-	-	74	-11.22	229	101	H
3	* 2.484	39.17	RMS	32.3	-20.8	50.67	54	-3.33	-	-	229	101	H
4	* 2.484	39.38	RMS	32.3	-20.8	50.88	54	-3.12	-	-	229	101	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

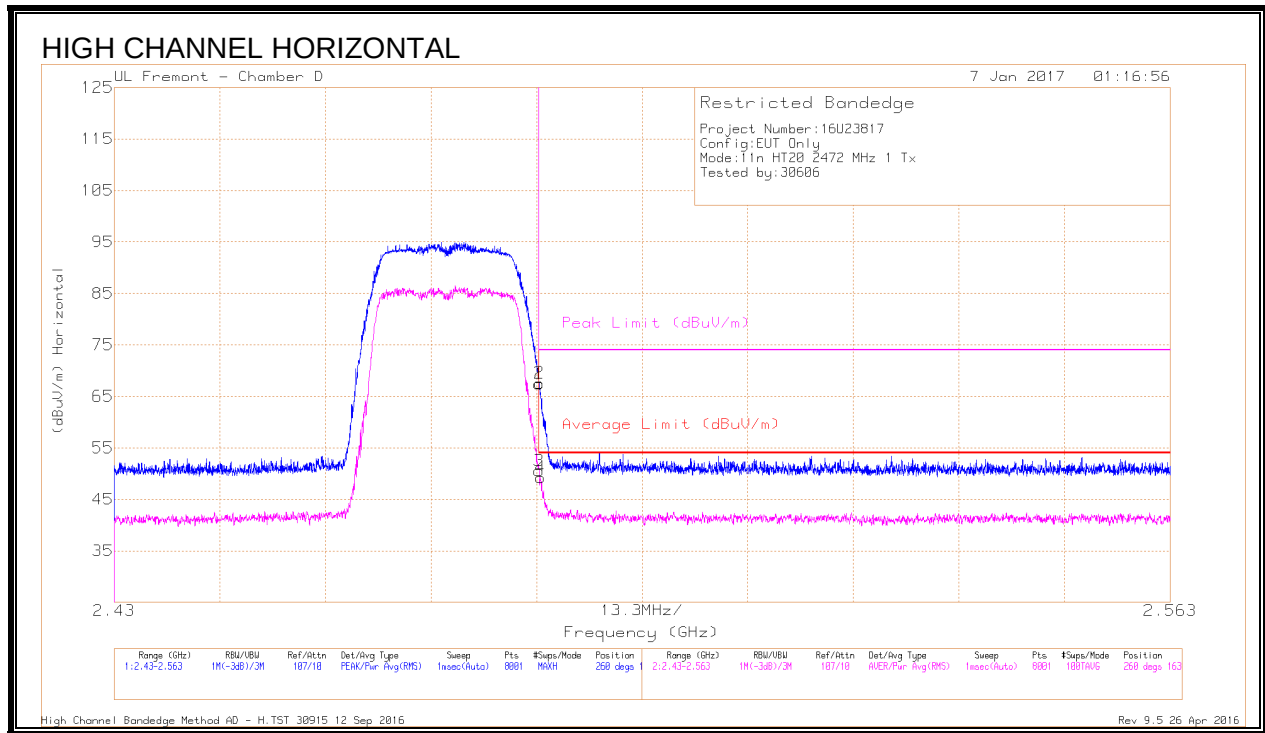
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.66	Pk	32.3	-20.8	53.16	-	-	74	-20.84	270	223	V
2	* 2.484	43.5	Pk	32.3	-20.8	55	-	-	74	-19	270	223	V
3	* 2.484	31.49	RMS	32.3	-20.8	42.99	54	-11.01	-	-	270	223	V
4	* 2.484	32.21	RMS	32.3	-20.8	43.71	54	-10.29	-	-	270	223	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 13)



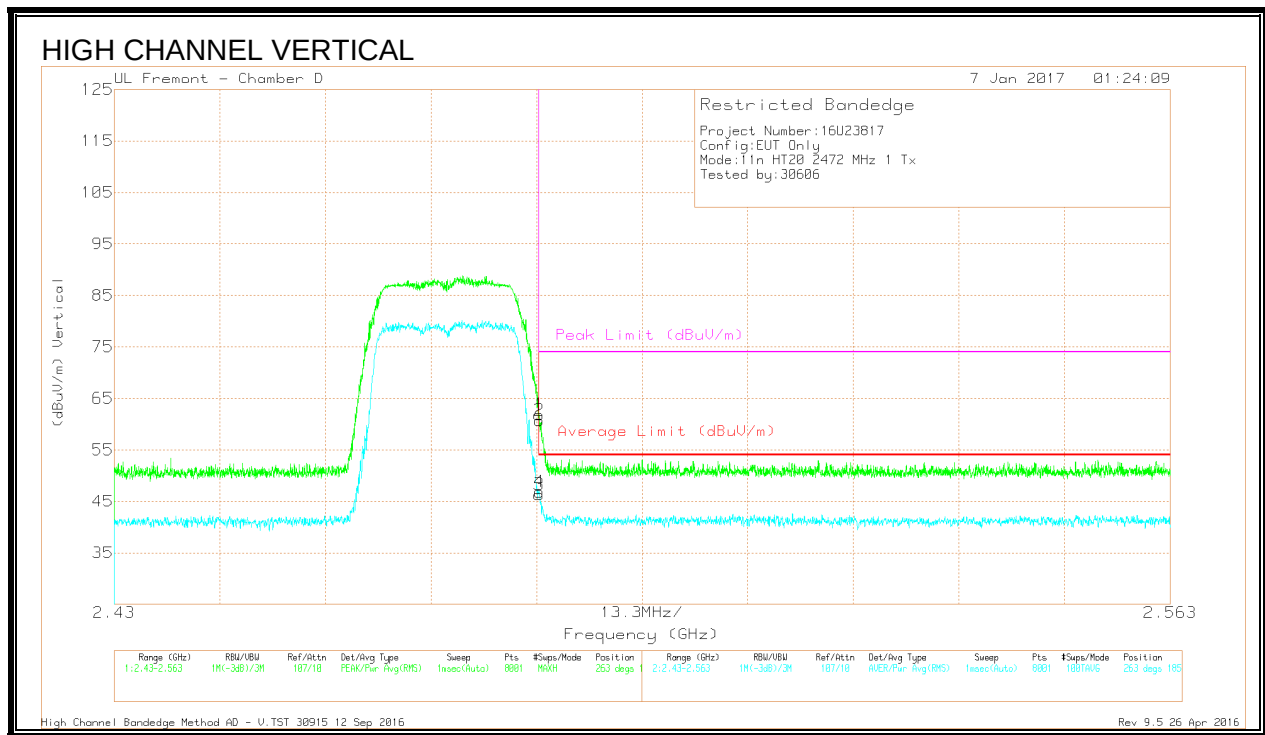
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Correct ed Reading (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	55.9	Pk	32.3	-20.8	67.4	-	-	74	-6.6	260	163	H
2	* 2.484	56.1	Pk	32.3	-20.8	67.6	-	-	74	-6.4	260	163	H
3	* 2.484	39.07	RMS	32.3	-20.8	50.57	54	-3.43	-	-	260	163	H
4	* 2.484	37.74	RMS	32.3	-20.8	49.24	54	-4.76	-	-	260	163	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

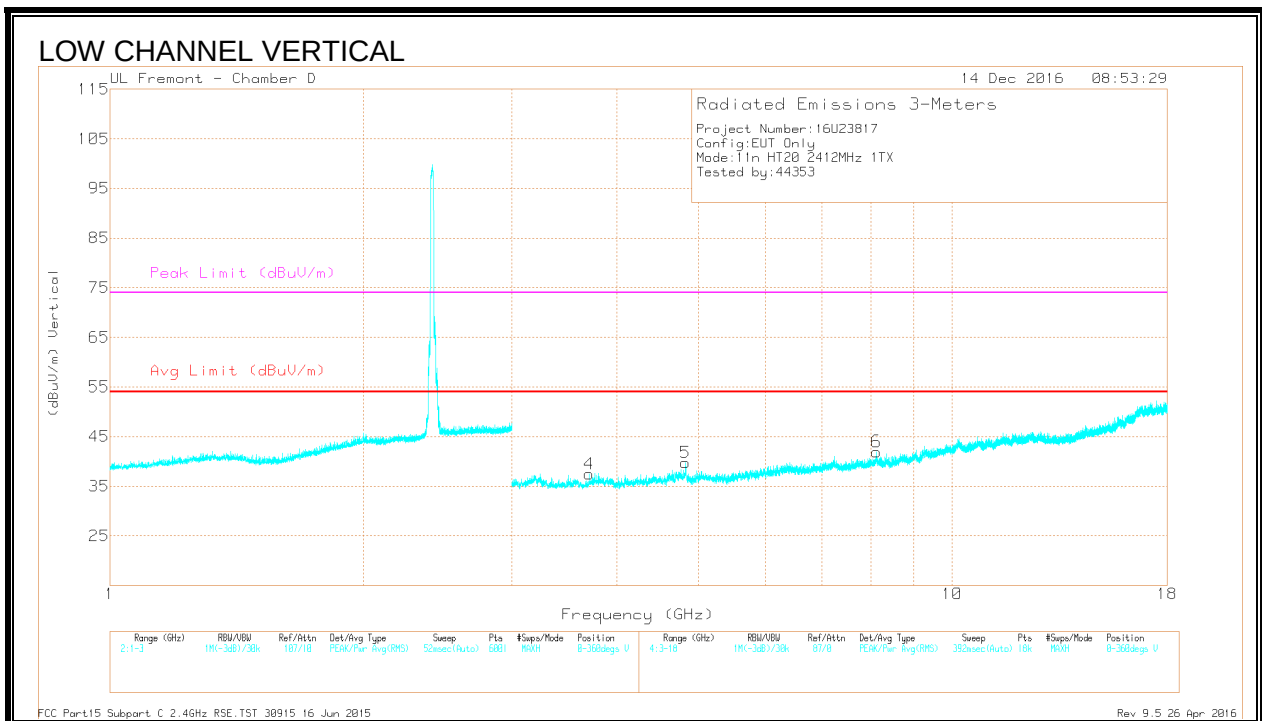
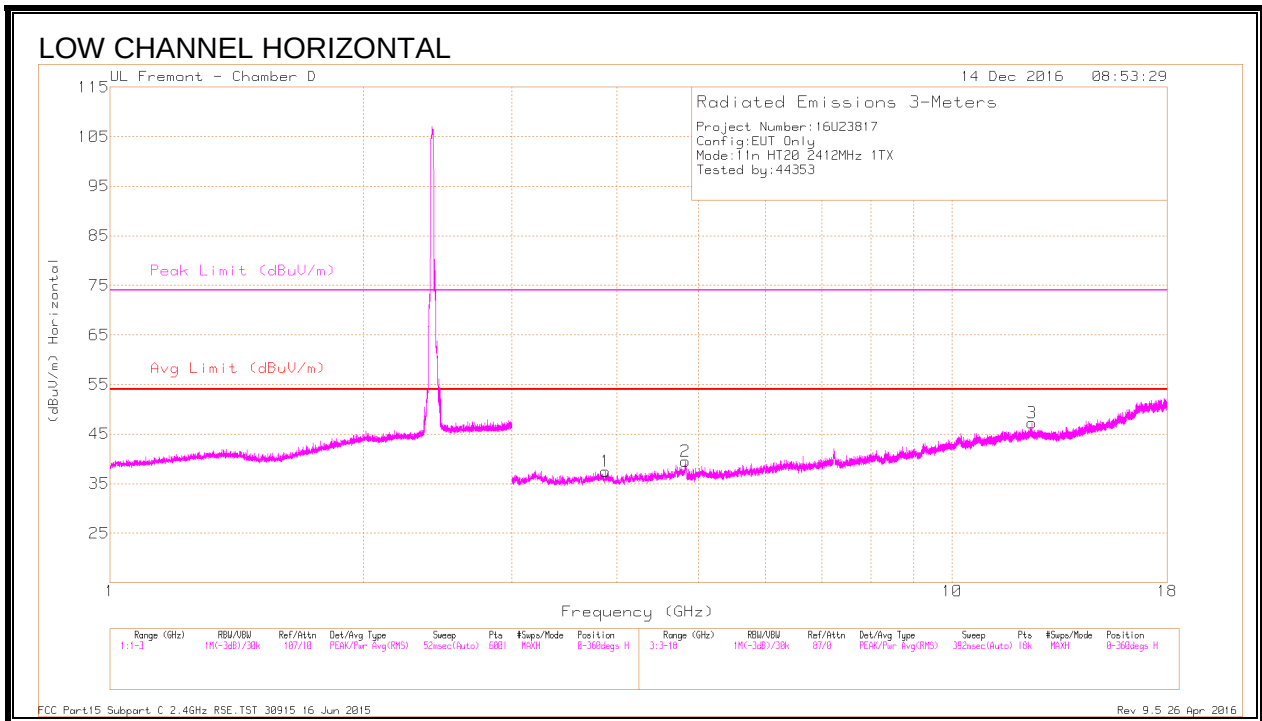
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cb/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	50.35	Pk	32.3	-20.8	61.85	-	-	74	-12.15	263	185	V
2	* 2.484	49.23	Pk	32.3	-20.8	60.73	-	-	74	-13.27	263	185	V
3	* 2.484	34.82	RMS	32.3	-20.8	46.32	54	-7.68	-	-	263	185	V
4	* 2.484	35.36	RMS	32.3	-20.8	46.86	54	-7.14	-	-	263	185	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)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT712 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.877	38.57	PK2	33.5	-28.3	43.77	-	-	74	-30.23	46	201	H
	* 3.878	28.21	MAv1	33.5	-28.3	33.41	54	-20.59	-	-	46	201	H
2	* 4.827	38.34	PK2	34.1	-27.4	45.04	-	-	74	-28.96	161	240	H
	* 4.825	26.99	MAv1	34.1	-27.4	33.69	54	-20.31	-	-	161	240	H
3	* 12.423	33.71	PK2	39.1	-20.5	52.31	-	-	74	-21.69	324	168	H
	* 12.424	24.2	MAv1	39.1	-20.5	42.8	54	-11.2	-	-	324	168	H
4	* 3.705	38.36	PK2	33.5	-28.8	43.06	-	-	74	-30.94	281	190	V
	* 3.707	28.44	MAv1	33.5	-28.9	33.04	54	-20.96	-	-	281	190	V
5	* 4.823	37.43	PK2	34.1	-27.3	44.23	-	-	74	-29.77	152	373	V
	* 4.828	26.67	MAv1	34.1	-27.4	33.37	54	-20.63	-	-	152	373	V
6	* 8.131	34.42	PK2	35.8	-22.7	47.52	-	-	74	-26.48	270	149	V
	* 8.133	24.82	MAv1	35.8	-22.6	38.02	54	-15.98	-	-	270	149	V

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

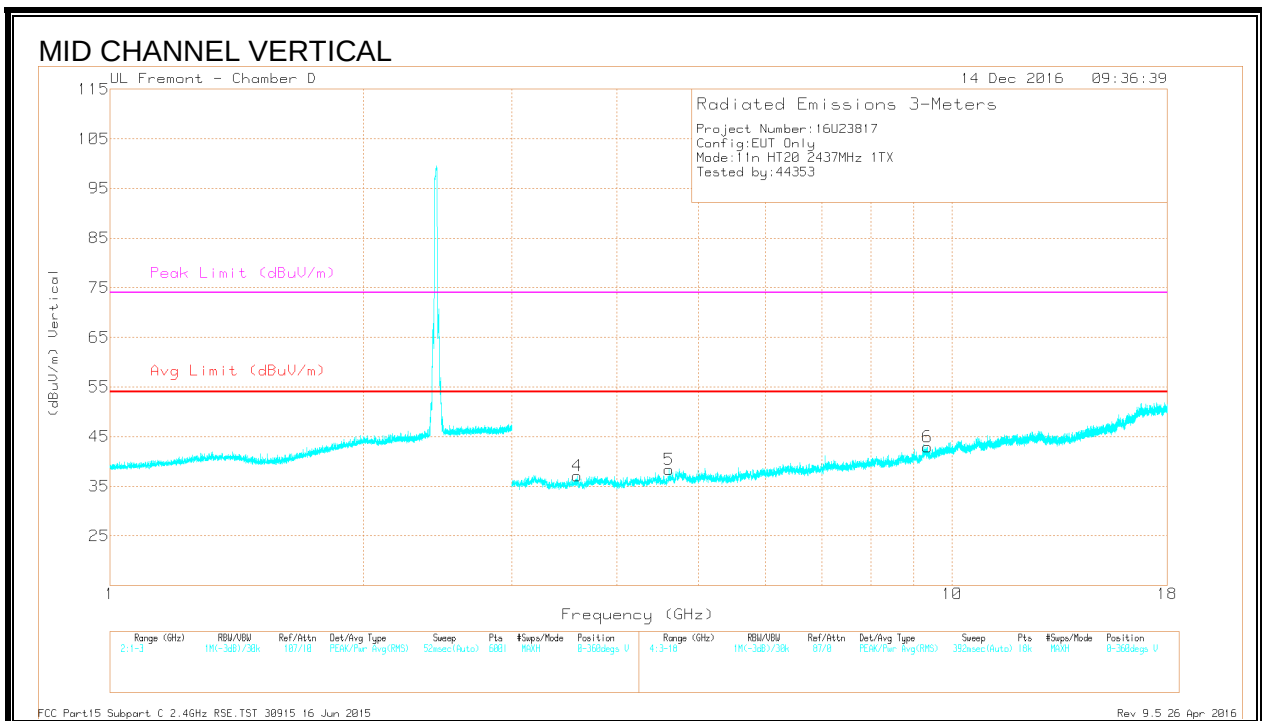
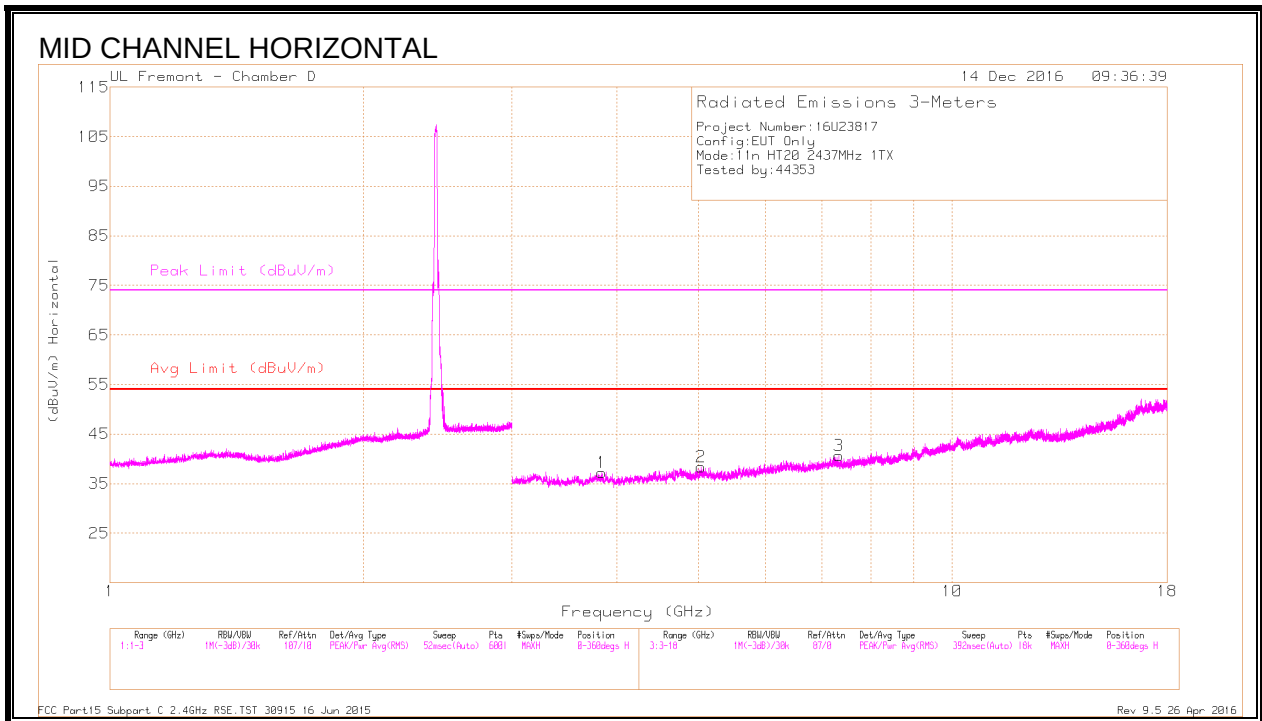
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15 Subpart C 2.4GHz RSE.TST 30915 16 Jun 2015

Rev 9.5 26 Apr 2016

HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL, CH 6)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT712 (dB/m)	Amp/Cbl/Filtr/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	* 3.834	38.85	PK2	33.5	-28.6	43.75	-	-	74	-30.25	72	298	H
	* 3.834	28.51	MAv1	33.5	-28.6	33.41	54	-20.59	-	-	72	298	H
2	* 5.034	37.49	PK2	34	-26.5	44.99	-	-	74	-29.01	136	174	H
	* 5.032	26.97	MAv1	34	-26.5	34.47	54	-19.53	-	-	136	174	H
3	* 7.337	35.44	PK2	35.6	-24.9	46.14	-	-	74	-27.86	108	118	H
	* 7.339	25.67	MAv1	35.6	-24.9	36.37	54	-17.63	-	-	108	118	H
4	* 3.588	38.72	PK2	33.3	-28.2	43.82	-	-	74	-30.18	352	216	V
	* 3.587	27.95	MAv1	33.3	-28.2	33.05	54	-20.95	-	-	352	216	V
5	* 4.607	38.26	PK2	34.2	-28.3	44.16	-	-	74	-29.84	157	273	V
	* 4.607	28.22	MAv1	34.2	-28.3	34.12	54	-19.88	-	-	157	273	V
6	* 9.355	34.09	PK2	36.4	-21.8	48.69	-	-	74	-25.31	180	320	V
	* 9.352	24.09	MAv1	36.4	-21.7	38.79	54	-15.21	-	-	180	320	V

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

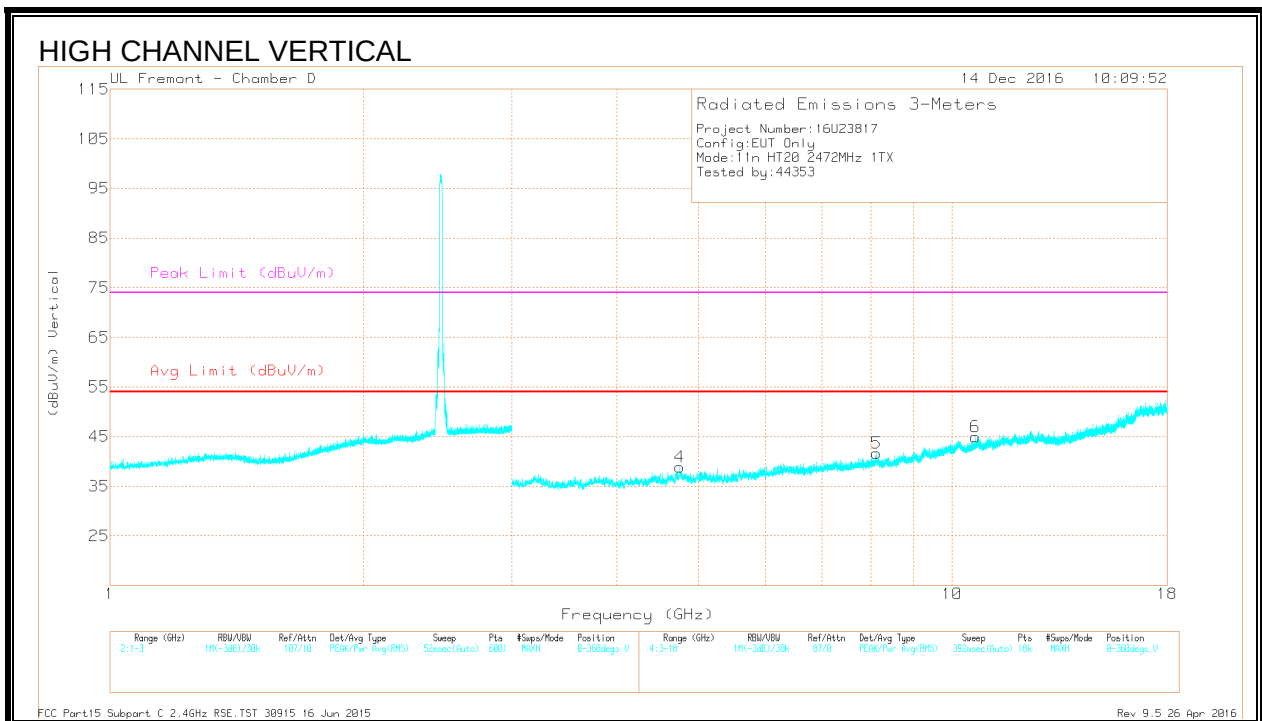
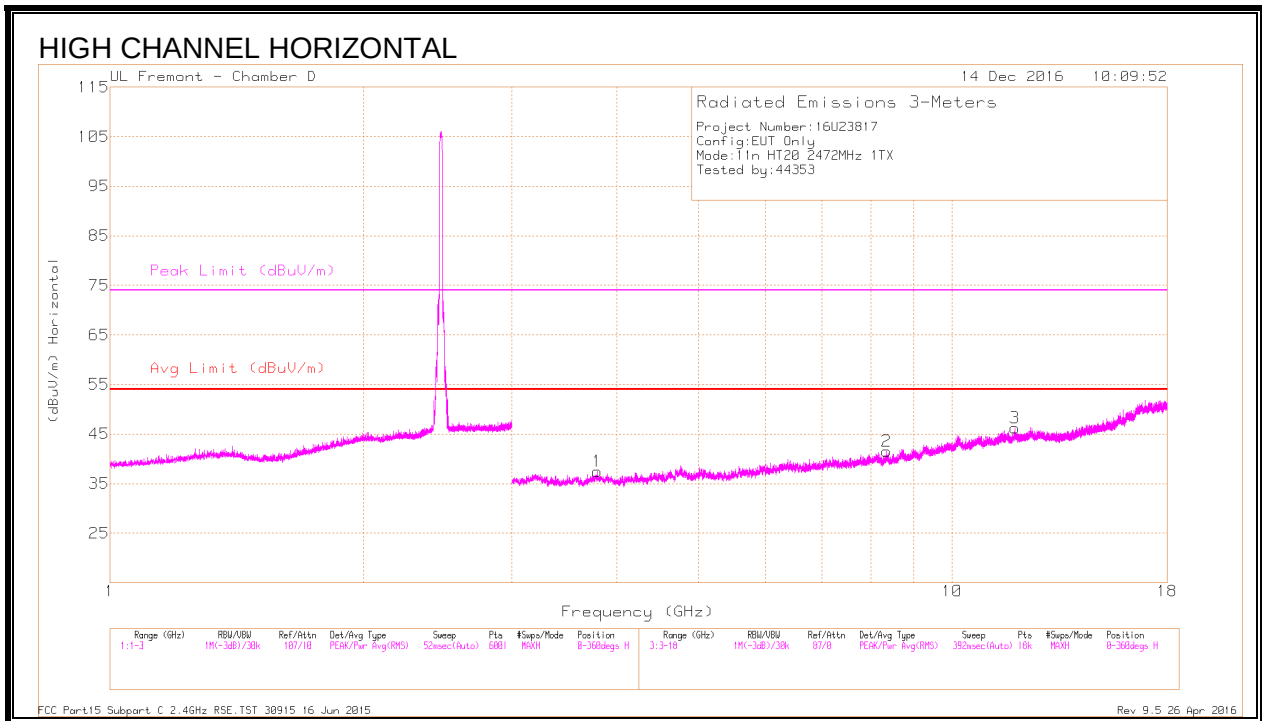
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15 Subpart C 2.4GHz RSE.TST 30915 16 Jun 2015

Rev 9.5 26 Apr 2016

HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL, CH 13)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT712 (dB/m)	Amp/Cbl/Filtr/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	* 3.791	38.18	PK2	33.5	-28.3	43.38	-	-	74	-30.62	330	162	H
	* 3.792	27.94	MAv1	33.5	-28.3	33.14	54	-20.86	-	-	330	162	H
2	* 8.358	35.84	PK2	35.8	-23.1	48.54	-	-	74	-25.46	248	356	H
	* 8.358	24.82	MAv1	35.8	-23.1	37.52	54	-16.48	-	-	248	356	H
3	* 11.862	34.03	PK2	38.8	-20.5	52.33	-	-	74	-21.67	83	189	H
	* 11.859	23.69	MAv1	38.8	-20.4	42.09	54	-11.91	-	-	83	189	H
4	* 4.745	37.59	PK2	34	-26.5	45.09	-	-	74	-28.91	119	185	V
	* 4.744	26.89	MAv1	34	-26.6	34.29	54	-19.71	-	-	119	185	V
5	* 8.125	34.52	PK2	35.8	-22.9	47.42	-	-	74	-26.58	52	235	V
	* 8.129	24.93	MAv1	35.8	-22.8	37.93	54	-16.07	-	-	52	235	V
6	* 10.652	34.04	PK2	37.8	-21.3	50.54	-	-	74	-23.46	177	140	V
	* 10.654	24.66	MAv1	37.8	-21.3	41.16	54	-12.84	-	-	177	140	V

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

PK2 - KDB558074 Method: Maximum Peak

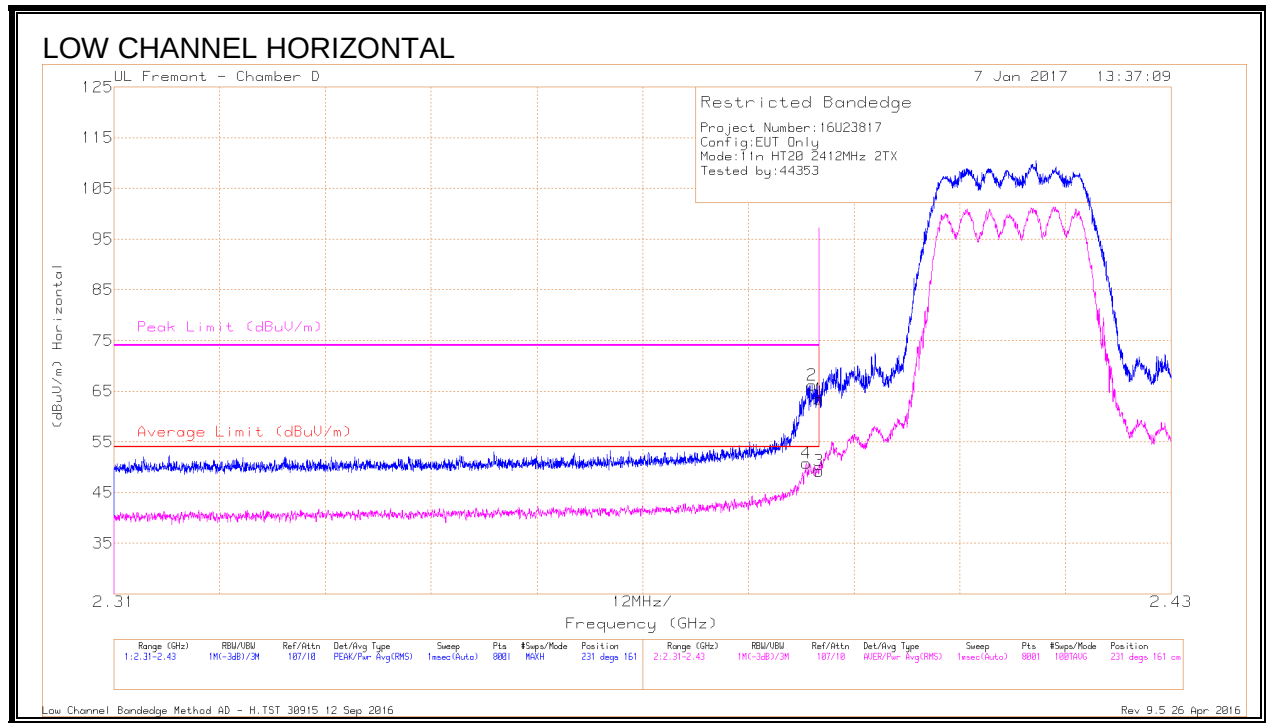
MAv1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15 Subpart C 2.4GHz RSE.TST 30915 16 Jun 2015

Rev 9.5 26 Apr 2016

10.2.5. 11n HT20 2TX CDD MIMO MODE IN THE 2.4GHz BAND

AUTHORIZED BANDEDGE (LOW CHANNEL, CH 1)



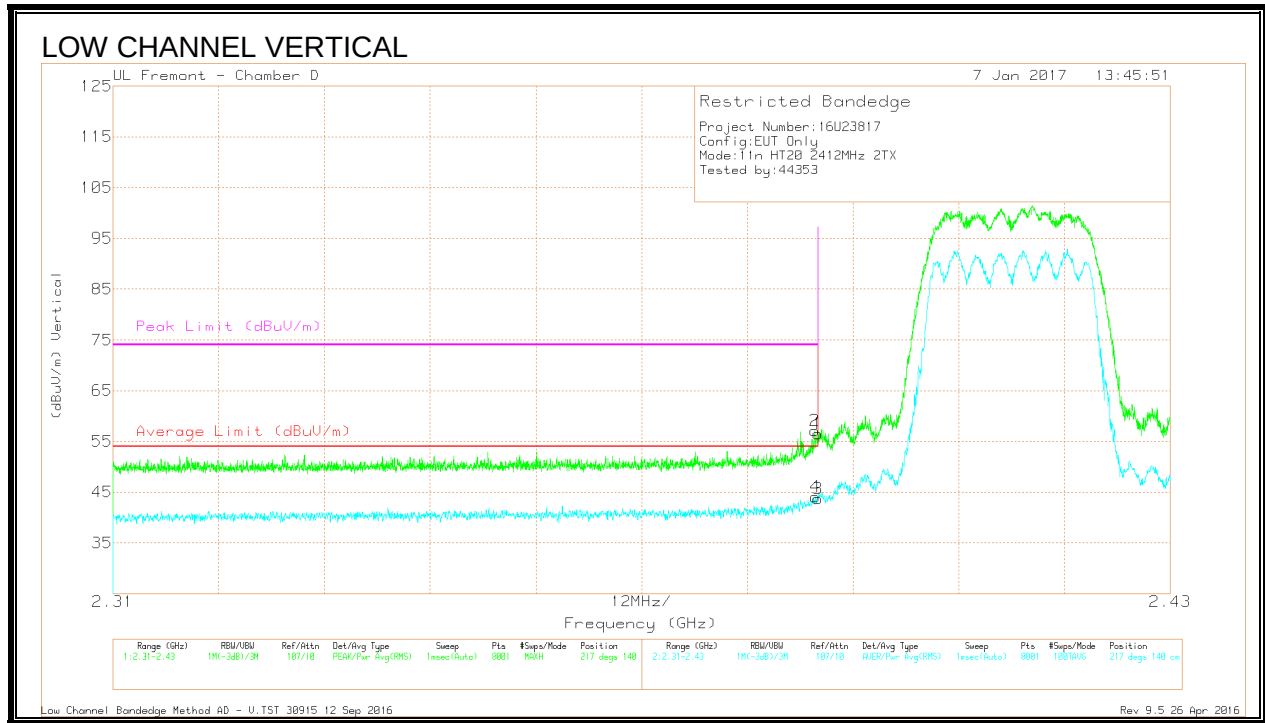
Trace Markers

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	* 2.39	52.06	Pk	32.1	-20.7	63.46	-	-	74	-10.54	231	161	H
2	* 2.389	54.83	Pk	32.1	-20.8	66.13	-	-	74	-7.87	231	161	H
3	* 2.39	37.84	RMS	32.1	-20.7	49.24	54	-4.76	-	-	231	161	H
4	* 2.389	39.51	RMS	32.1	-20.8	50.81	54	-3.19	-	-	231	161	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

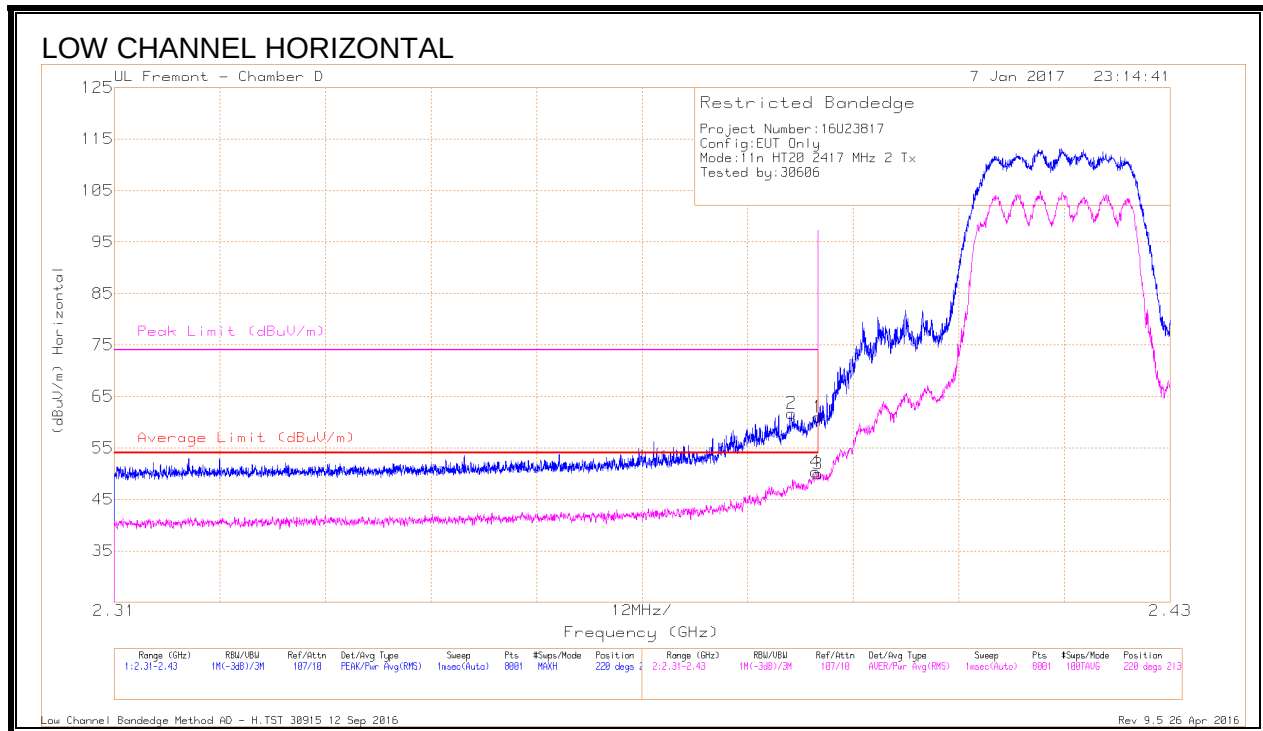
Marker	Frequ ncy (GHz)	Meter Readin g (dBuV)	Det	AF T712 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Correct ed Readin g (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimet h (Degs)	Height (cm)	Polarity
1	* 2.39	45.07	Pk	32.1	-20.7	56.47	-	-	74	-17.53	217	140	V
2	* 2.39	45.86	Pk	32.1	-20.8	57.16	-	-	74	-16.84	217	140	V
3	* 2.39	32.31	RMS	32.1	-20.7	43.71	54	-10.29	-	-	217	140	V
4	* 2.39	32.77	RMS	32.1	-20.8	44.07	54	-9.93	-	-	217	140	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (LOW CHANNEL, CH 2)



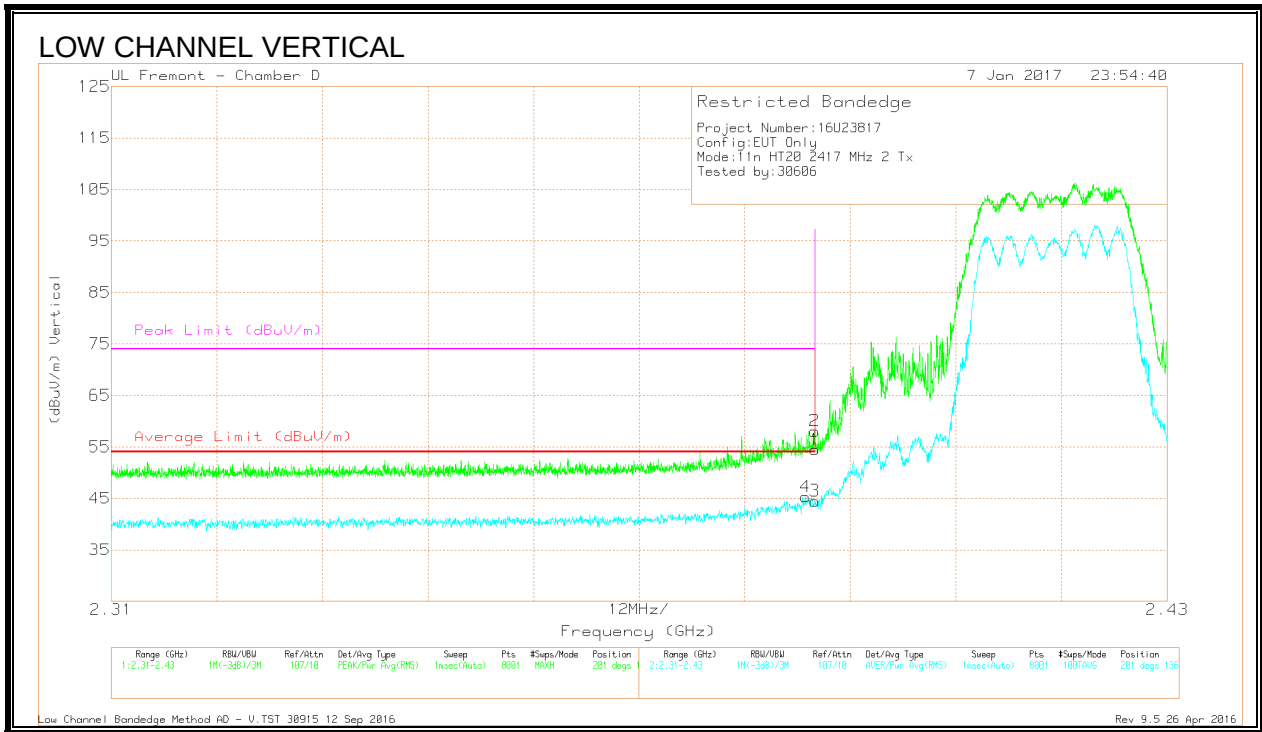
Trace Markers

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	* 2.39	49.59	Pk	32.1	-20.7	60.99	-	-	74	-13.01	220	213	H
2	* 2.387	50.43	Pk	32.1	-20.8	61.73	-	-	74	-12.27	220	213	H
3	* 2.39	38.55	RMS	32.1	-20.7	49.95	54	-4.05	-	-	220	213	H
4	* 2.39	39.05	RMS	32.1	-20.8	50.35	54	-3.65	-	-	220	213	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

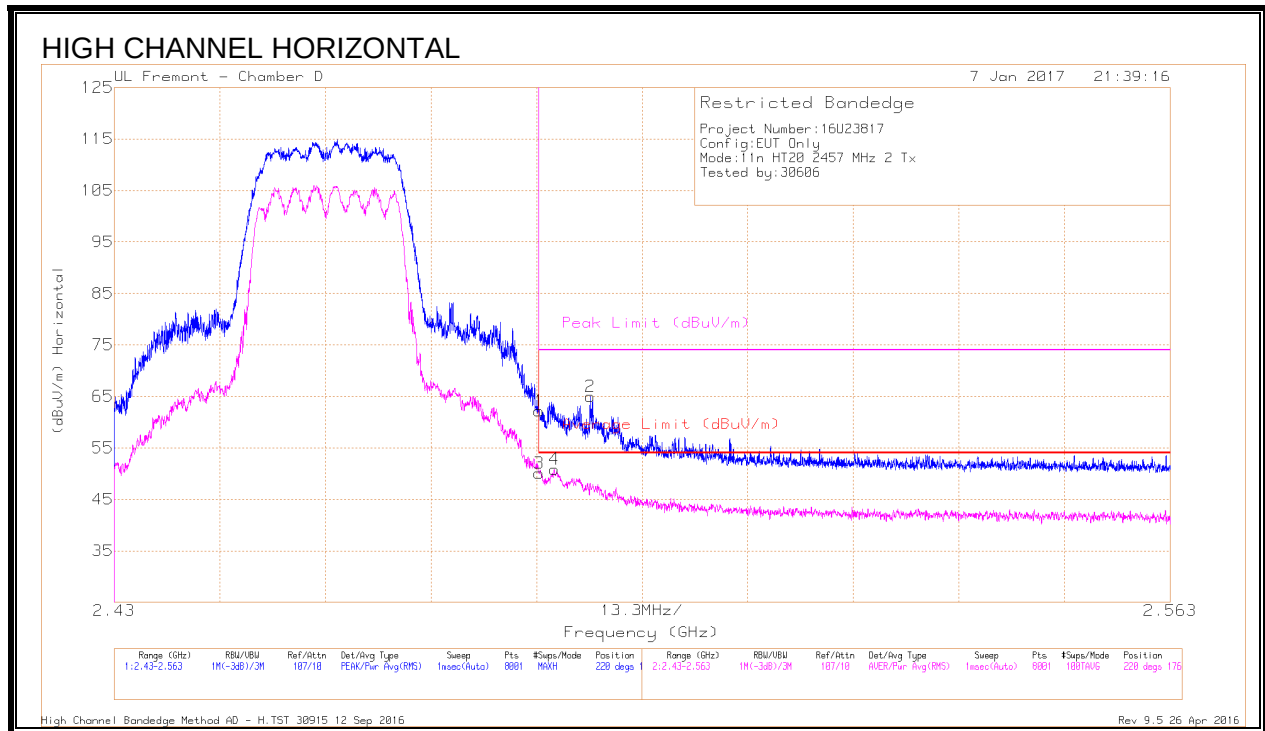
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	43.09	Pk	32.1	-20.7	54.49	-	-	74	-19.51	201	136	V
2	* 2.39	46.68	Pk	32.1	-20.7	58.08	-	-	74	-15.92	201	136	V
3	* 2.39	33.09	RMS	32.1	-20.7	44.49	54	-9.51	-	-	201	136	V
4	* 2.389	34	RMS	32.1	-20.8	45.3	54	-8.7	-	-	201	136	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 10)



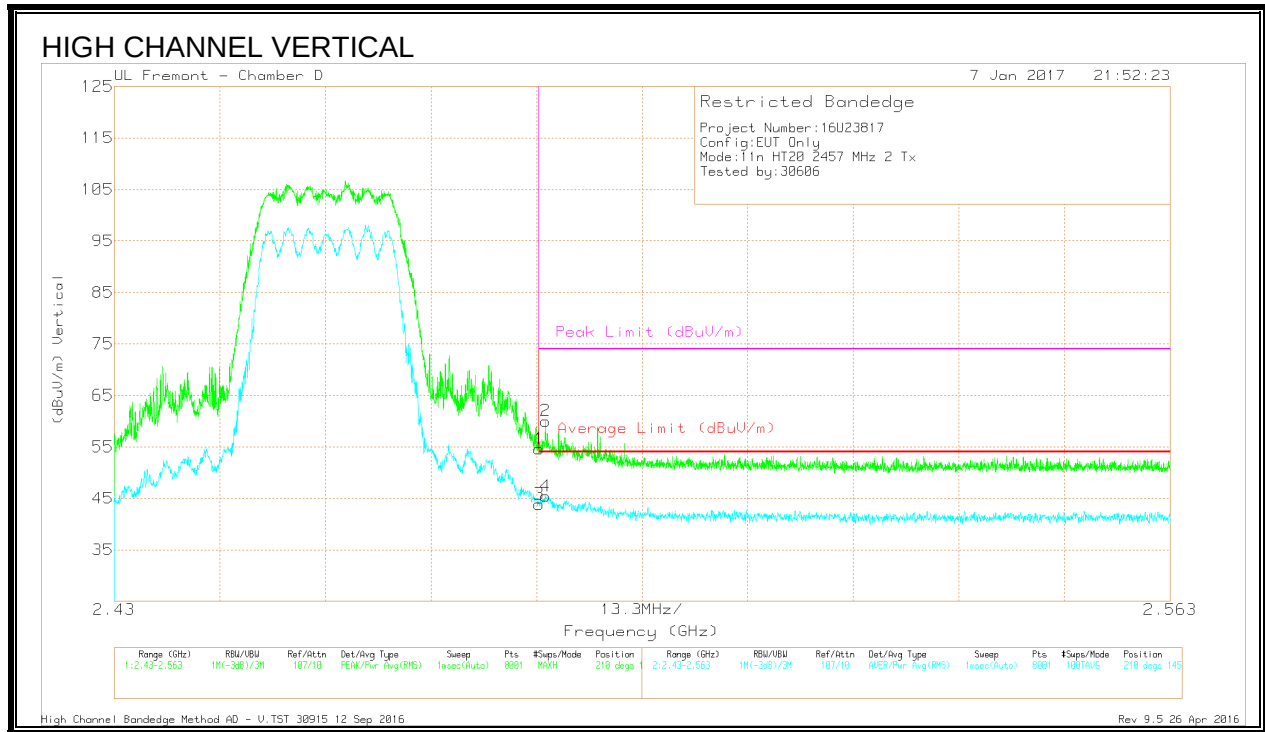
Trace Markers

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	50.68	Pk	32.3	-20.8	62.18	-	-	74	-11.82	220	176	H
2	* 2.49	53.5	Pk	32.3	-20.8	65	-	-	74	-9	220	176	H
3	* 2.484	38.59	RMS	32.3	-20.8	50.09	54	-3.91	-	-	220	176	H
4	* 2.485	39.33	RMS	32.3	-20.8	50.83	54	-3.17	-	-	220	176	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

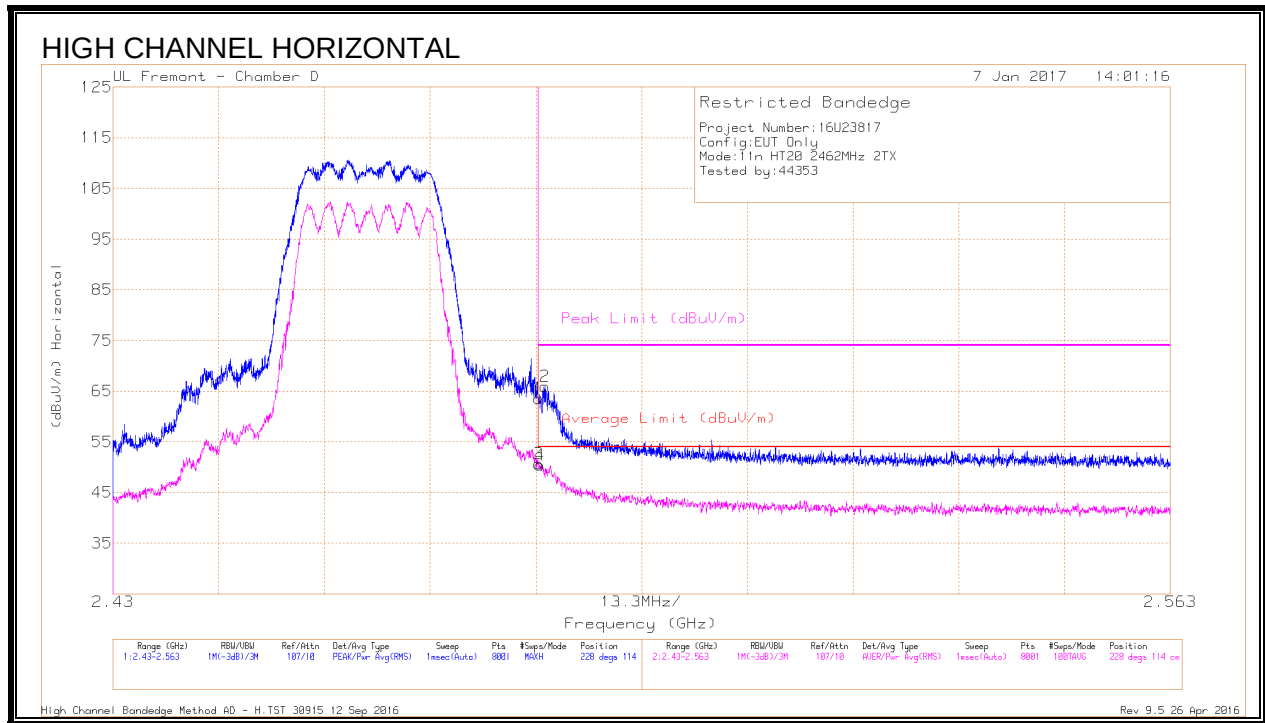
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cb/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	43.12	Pk	32.3	-20.8	54.62	-	-	74	-19.38	210	145	V
2	* 2.484	48.54	Pk	32.3	-20.8	60.04	-	-	74	-13.96	210	145	V
3	* 2.484	32.39	RMS	32.3	-20.8	43.89	54	-10.11	-	-	210	145	V
4	* 2.484	33.92	RMS	32.3	-20.8	45.42	54	-8.58	-	-	210	145	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 11)



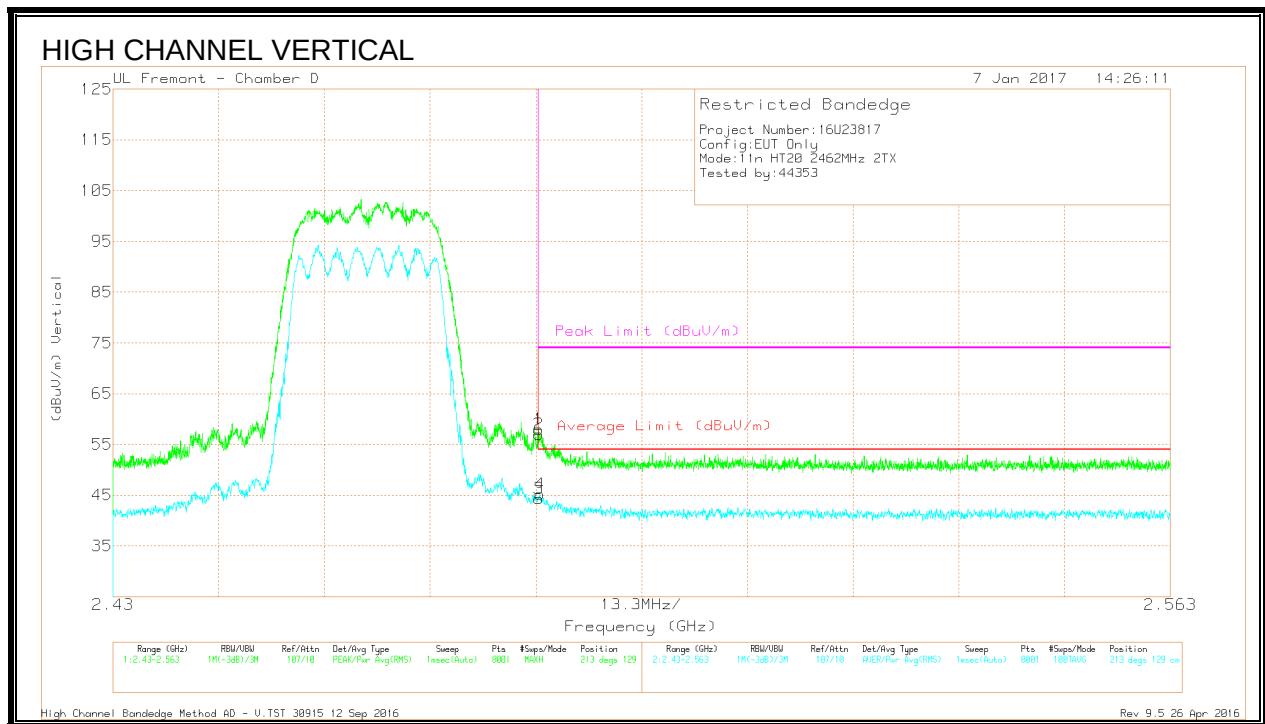
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cb/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	52.07	Pk	32.3	-20.8	63.57	-	-	74	-10.43	228	114	H
2	* 2.484	54.44	Pk	32.3	-20.8	65.94	-	-	74	-8.06	228	114	H
3	* 2.484	39.22	RMS	32.3	-20.8	50.72	54	-3.28	-	-	228	114	H
4	* 2.484	38.9	RMS	32.3	-20.8	50.4	54	-3.6	-	-	228	114	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

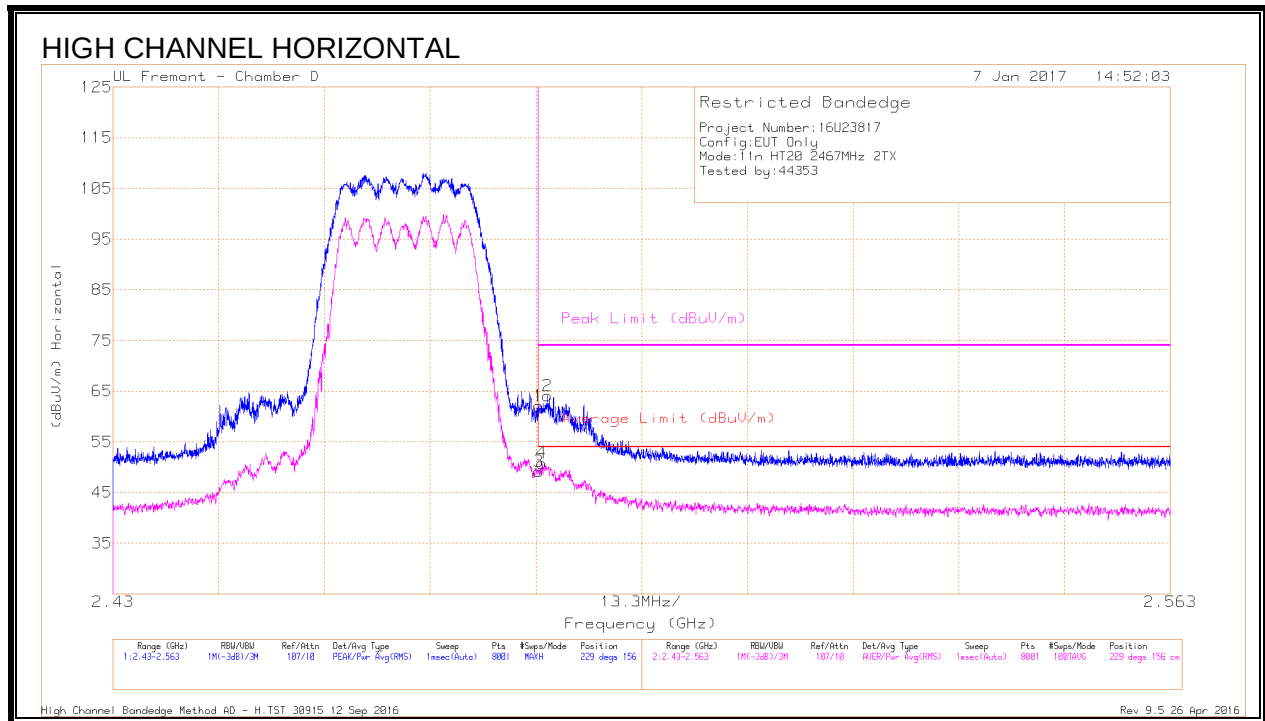
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	46.47	Pk	32.3	-20.8	57.97	-	-	74	-16.03	213	129	V
2	* 2.484	45.54	Pk	32.3	-20.8	57.04	-	-	74	-16.96	213	129	V
3	* 2.484	32.85	RMS	32.3	-20.8	44.35	54	-9.65	-	-	213	129	V
4	* 2.484	33.65	RMS	32.3	-20.8	45.15	54	-8.85	-	-	213	129	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 12)



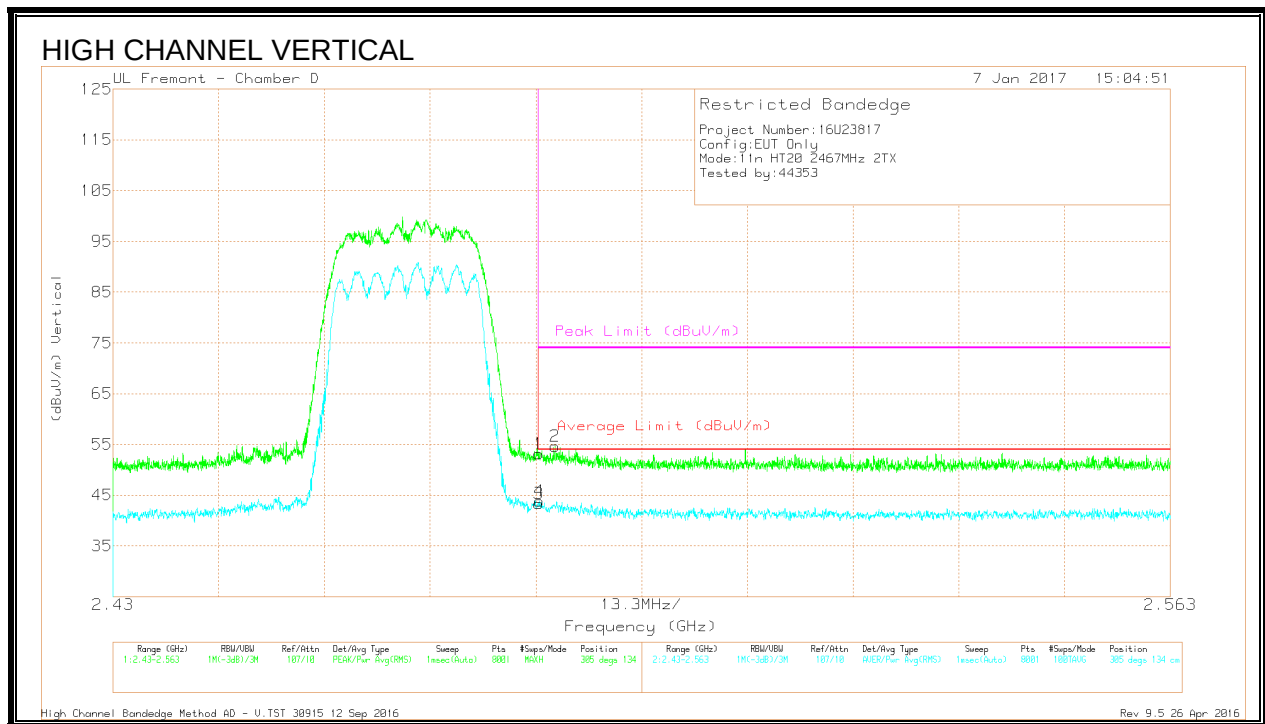
Trace Markers

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	50.57	Pk	32.3	-20.8	62.07	-	-	74	-11.93	229	156	H
2	* 2.485	52.53	Pk	32.3	-20.8	64.03	-	-	74	-9.97	229	156	H
3	* 2.484	37.68	RMS	32.3	-20.8	49.18	54	-4.82	-	-	229	156	H
4	* 2.484	39.35	RMS	32.3	-20.8	50.85	54	-3.15	-	-	229	156	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

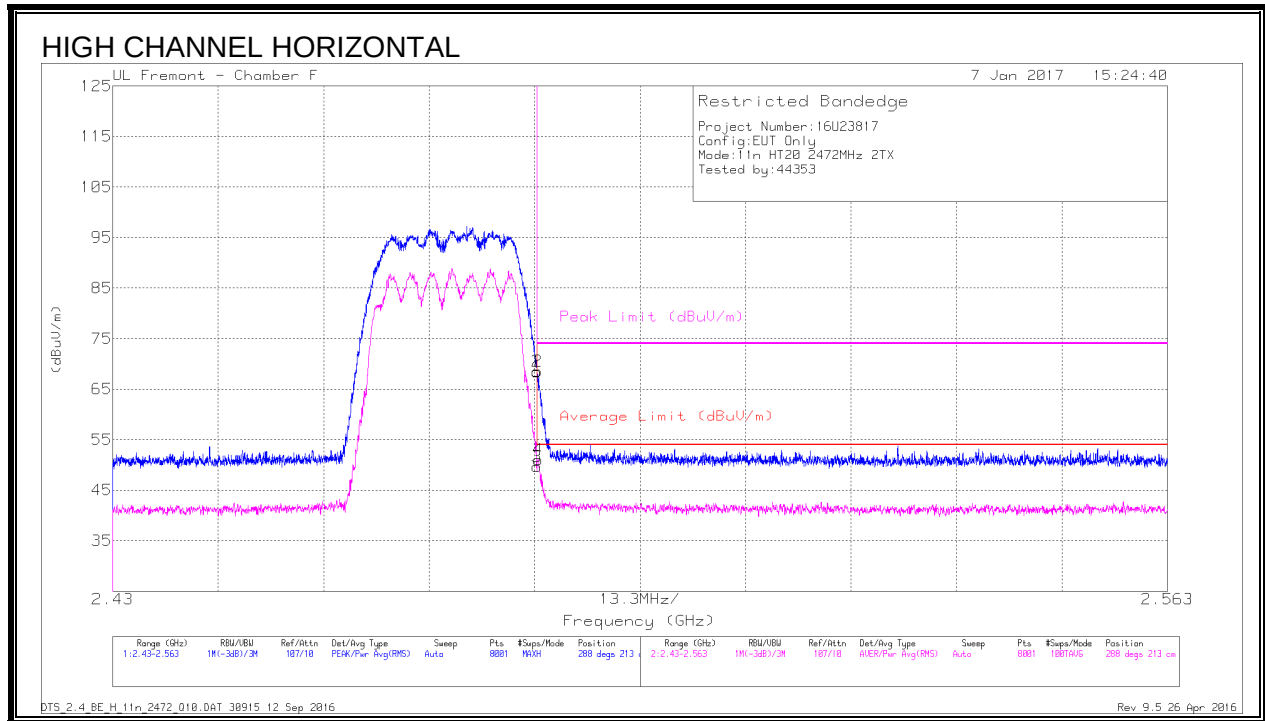
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1	* 2.484	41.67	Pk	32.3	-20.8	53.17	-	-	74	-20.83	305	134	V
2	* 2.486	43.14	Pk	32.3	-20.8	54.64	-	-	74	-19.36	305	134	V
3	* 2.484	31.86	RMS	32.3	-20.8	43.36	54	-10.64	-	-	305	134	V
4	* 2.484	32.38	RMS	32.3	-20.8	43.88	54	-10.12	-	-	305	134	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 13)



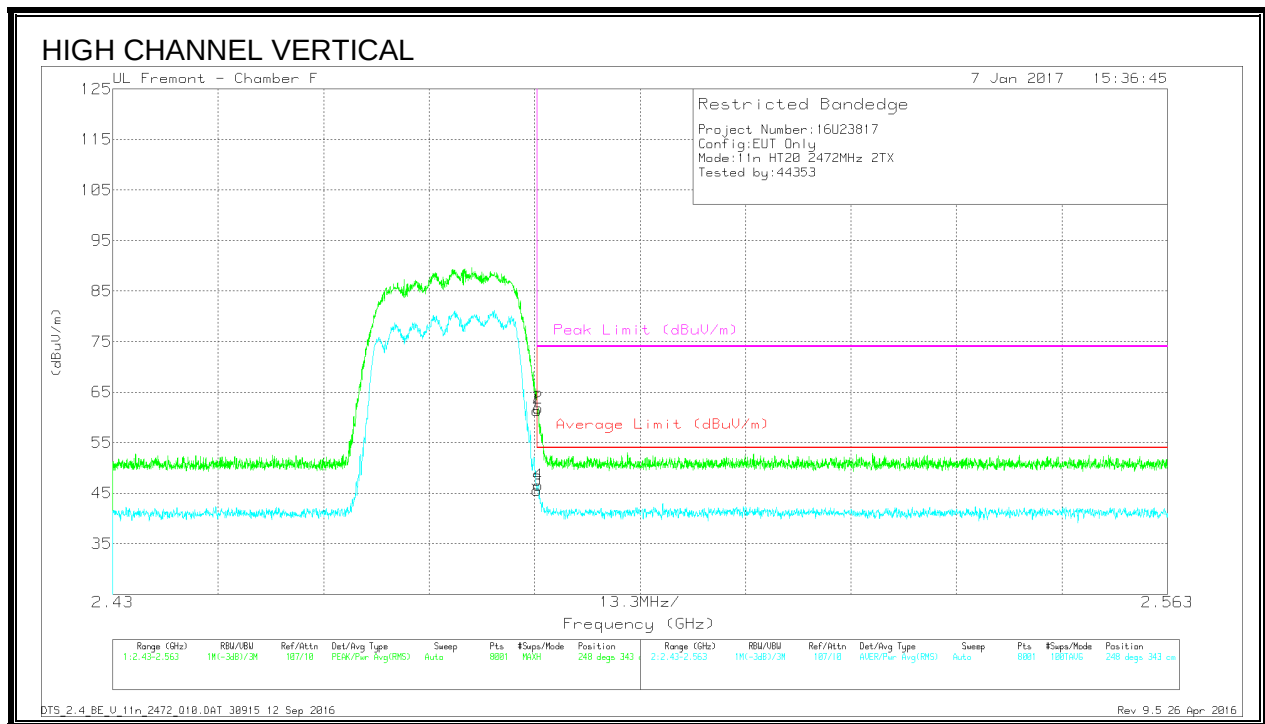
Trace Markers

Marker	Frequ ncy (GHz)	Meter Readin g (dBuV)	Det	AF T712 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Correct ed Readin g (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimet h (Degs)	Height (cm)	Polarity
1	* 2.484	56.93	Pk	32.3	-20.8	68.43	-	-	74	-5.57	288	213	H
2	* 2.484	57.06	Pk	32.3	-20.8	68.56	-	-	74	-5.44	288	213	H
3	* 2.484	38.13	RMS	32.3	-20.8	49.63	54	-4.37	-	-	288	213	H
4	* 2.484	39.52	RMS	32.3	-20.8	51.02	54	-2.98	-	-	288	213	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

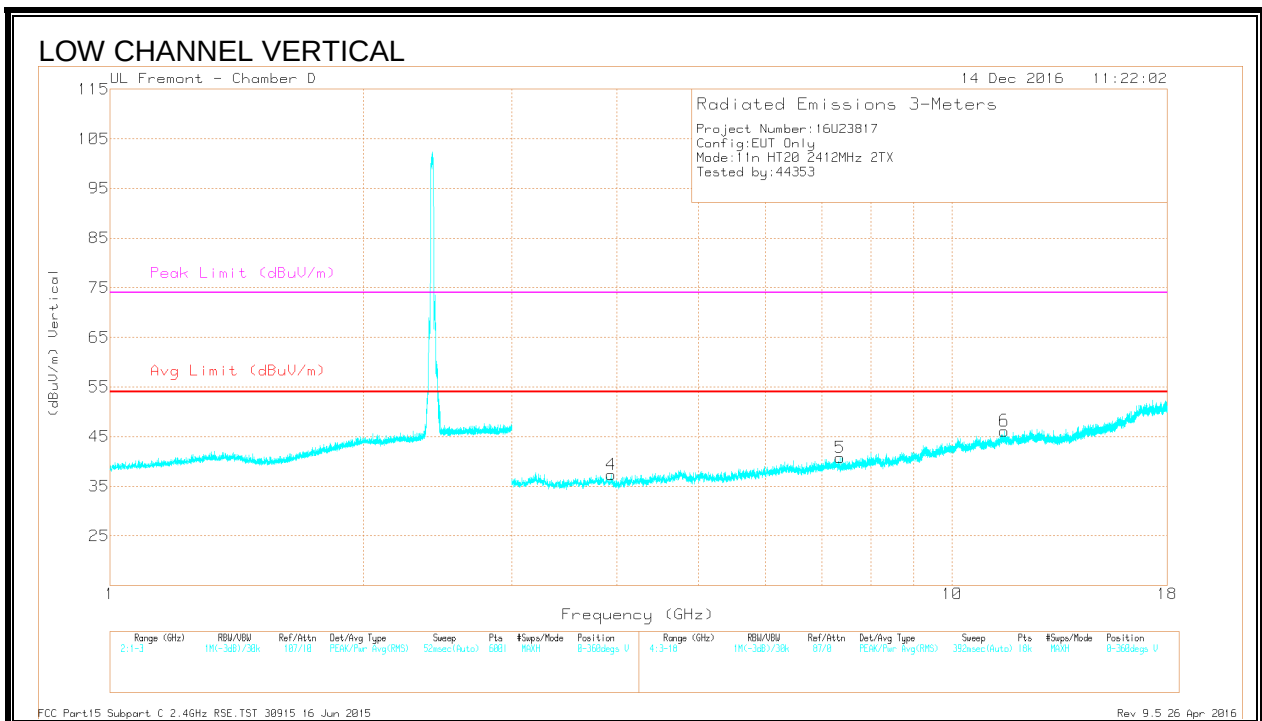
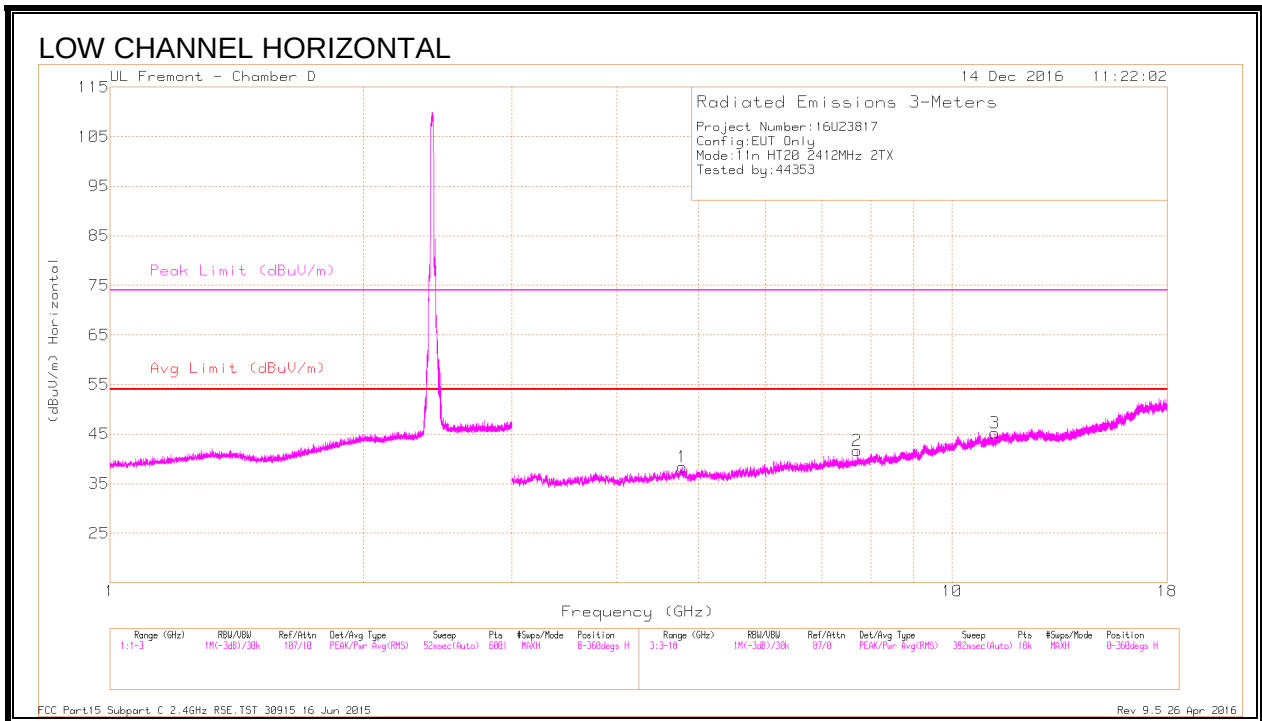
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	49.82	Pk	32.3	-20.8	61.32	-	-	74	-12.68	248	343	V
2	* 2.484	50.4	Pk	32.3	-20.8	61.9	-	-	74	-12.1	248	343	V
3	* 2.484	34.12	RMS	32.3	-20.8	45.62	54	-8.38	-	-	248	343	V
4	* 2.484	35.11	RMS	32.3	-20.8	46.61	54	-7.39	-	-	248	343	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)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT712 (dB/m)	Amp/Cbl/Filtr/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	* 4.775	36.7	PK2	34	-26.6	44.1	-	-	74	-29.9	38	180	H
	* 4.777	27.08	MAv1	34	-26.5	34.58	54	-19.42	-	-	38	180	H
2	* 7.711	36.04	PK2	35.8	-24.8	47.04	-	-	74	-26.96	261	328	H
	* 7.712	25.79	MAv1	35.8	-24.8	36.79	54	-17.21	-	-	261	328	H
3	* 11.239	33.57	PK2	38.2	-21.3	50.47	-	-	74	-23.53	112	260	H
	* 11.241	23.7	MAv1	38.2	-21.3	40.6	54	-13.4	-	-	112	260	H
4	* 3.939	38.29	PK2	33.4	-28.1	43.59	-	-	74	-30.41	230	154	V
	* 3.938	28.03	MAv1	33.4	-28	33.43	54	-20.57	-	-	230	154	V
5	* 7.359	35.56	PK2	35.6	-25.3	45.86	-	-	74	-28.14	103	201	V
	* 7.358	25.67	MAv1	35.6	-25.2	36.07	54	-17.93	-	-	103	201	V
6	* 11.528	34.45	PK2	38.4	-20.7	52.15	-	-	74	-21.85	292	194	V
	* 11.529	23.96	MAv1	38.4	-20.7	41.66	54	-12.34	-	-	292	194	V

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

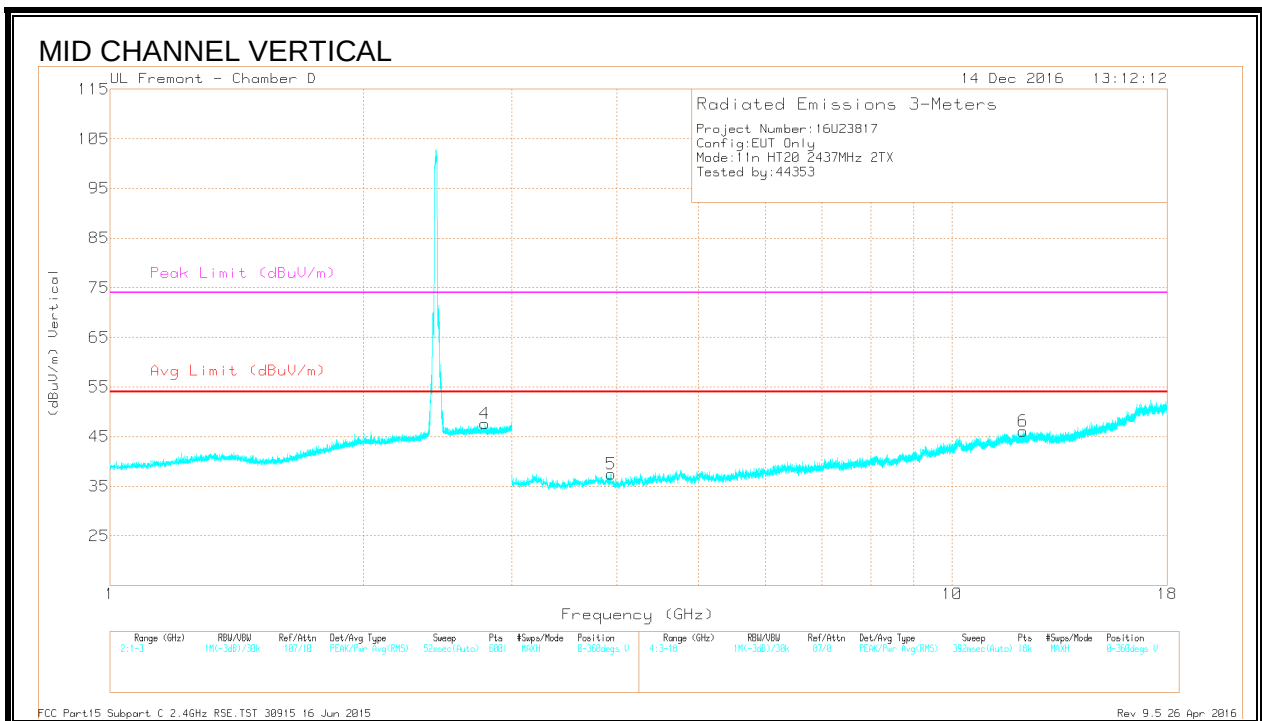
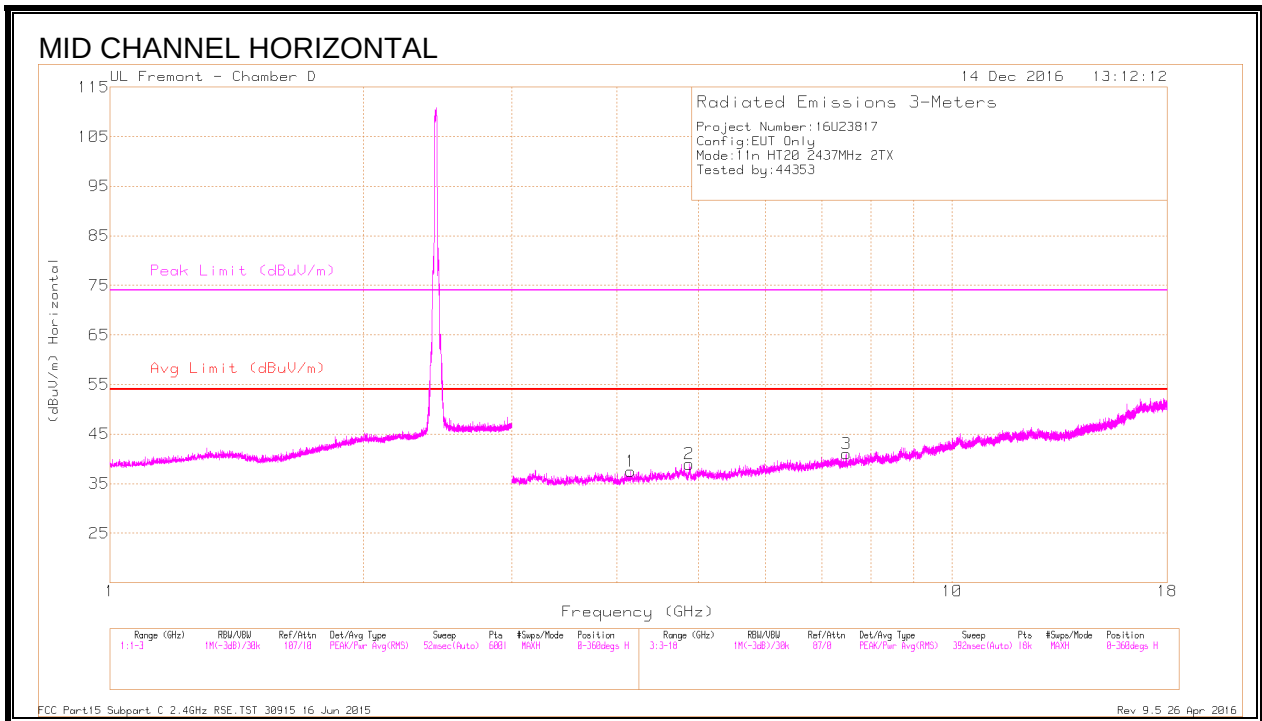
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15 Subpart C 2.4GHz RSE.TST 30915 16 Jun 2015

Rev 9.5 26 Apr 2016

HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL, CH 6)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT712 (dB/m)	Amp/Cbl/Filtr/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	* 2.784	42.46	PK2	32.3	-20.3	54.46	-	-	74	-19.54	288	174	V
	* 2.784	30.75	MAv1	32.3	-20.3	42.75	54	-11.25	-	-	288	174	V
1	* 4.153	37.78	PK2	33.5	-28	43.28	-	-	74	-30.72	151	255	H
	* 4.155	27.67	MAv1	33.5	-28.1	33.07	54	-20.93	-	-	151	255	H
2	* 4.871	36.99	PK2	34.1	-28.1	42.99	-	-	74	-31.01	199	166	H
	* 4.869	27.53	MAv1	34.1	-28.1	33.53	54	-20.47	-	-	199	166	H
3	* 7.482	36.23	PK2	35.7	-24.8	47.13	-	-	74	-26.87	28	341	H
	* 7.483	25.81	MAv1	35.7	-24.8	36.71	54	-17.29	-	-	28	341	H
5	* 3.932	38.44	PK2	33.5	-28	43.94	-	-	74	-30.06	232	240	V
	* 3.933	27.77	MAv1	33.5	-28	33.27	54	-20.73	-	-	232	240	V
6	* 12.145	34.04	PK2	39	-20.6	52.44	-	-	74	-21.56	206	125	V
	* 12.146	23.64	MAv1	39	-20.6	42.04	54	-11.96	-	-	206	125	V

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

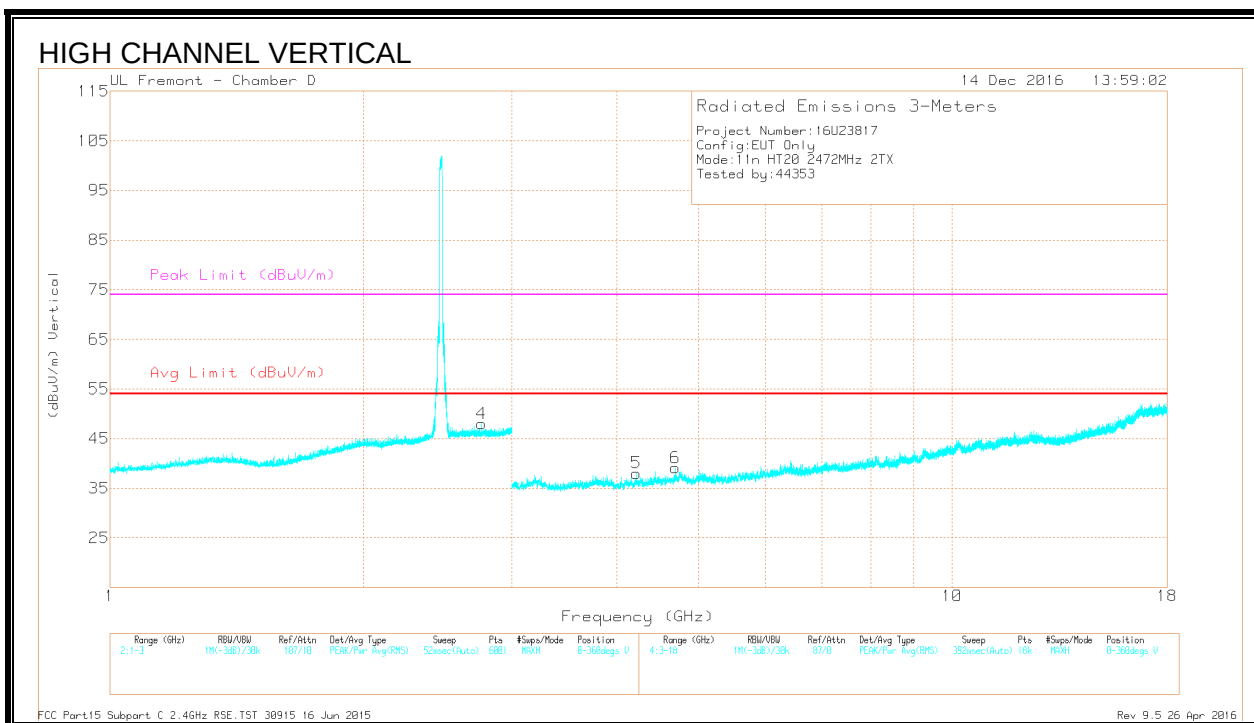
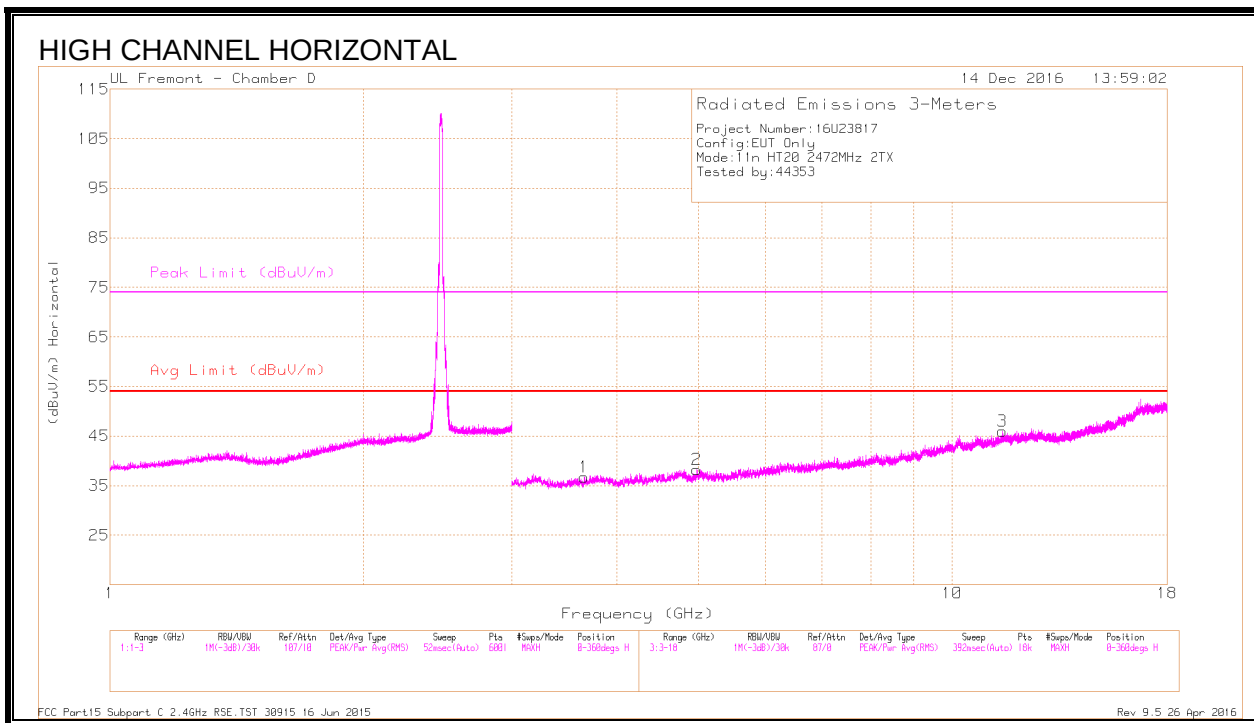
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15 Subpart C 2.4GHz RSE.TST 30915 16 Jun 2015

Rev 9.5 26 Apr 2016

HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL, CH 13)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT712 (dB/m)	Amp/Cbl/Filtr/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	* 2.764	41.24	PK2	32.4	-20.4	53.24	-	-	74	-20.76	170	132	V
	* 2.761	30.58	MAv1	32.4	-20.4	42.58	54	-11.42	-	-	170	132	V
1	* 3.652	38.22	PK2	33.4	-29.1	42.52	-	-	74	-31.48	268	247	H
	* 3.655	28.45	MAv1	33.4	-29.2	32.65	54	-21.35	-	-	268	247	H
2	* 4.973	37.03	PK2	34.1	-27.2	43.93	-	-	74	-30.07	192	184	H
	* 4.971	27.4	MAv1	34.1	-27.3	34.2	54	-19.8	-	-	192	184	H
3	* 11.465	34.72	PK2	38.4	-21.2	51.92	-	-	74	-22.08	109	369	H
	* 11.468	24.81	MAv1	38.4	-21.2	42.01	54	-11.99	-	-	109	369	H
5	* 4.215	38.06	PK2	33.5	-27.5	44.06	-	-	74	-29.94	36	155	V
	* 4.214	27.62	MAv1	33.5	-27.5	33.62	54	-20.38	-	-	36	155	V
6	* 4.694	38.21	PK2	34	-27.3	44.91	-	-	74	-29.09	302	102	V
	* 4.693	27.97	MAv1	34	-27.3	34.67	54	-19.33	-	-	302	102	V

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

PK2 - KDB558074 Method: Maximum Peak

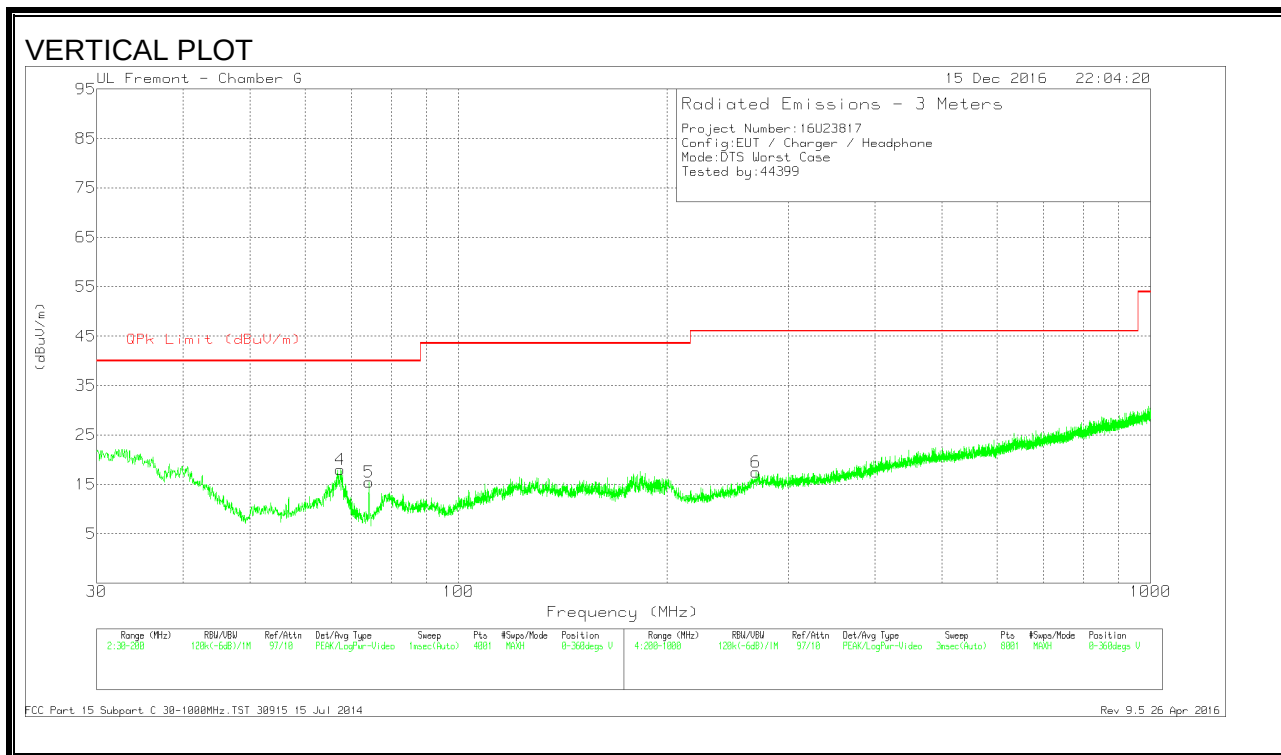
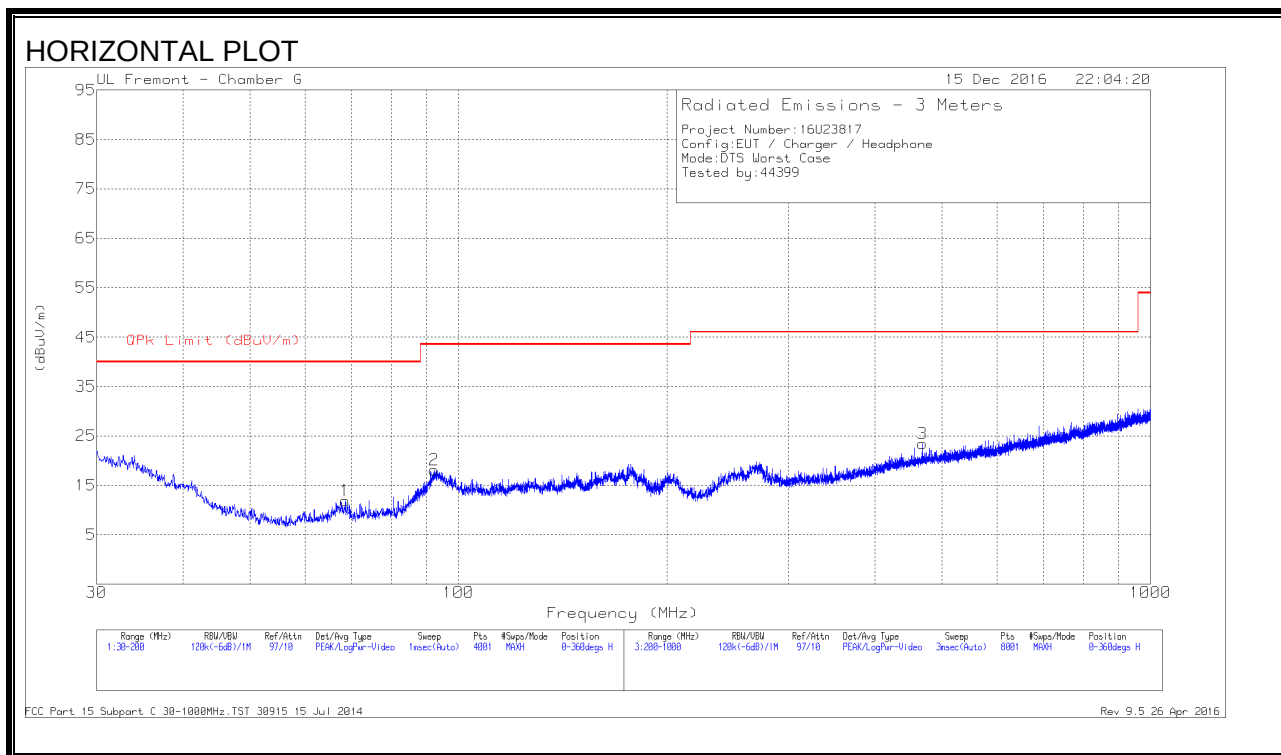
MAv1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15 Subpart C 2.4GHz RSE.TST 30915 16 Jun 2015

Rev 9.5 26 Apr 2016

10.3. WORST-CASE BELOW 1 GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T900 (dB/m)	Amp Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 74.2425	34.13	Pk	12	-30.7	15.43	40	-24.57	0-360	100	V
6	* 269.1	29.63	Pk	17	-29.1	17.53	46.02	-28.49	0-360	100	V
4	67.485	36.64	Pk	12.2	-30.8	18.04	40	-21.96	0-360	100	V
1	68.6325	30.51	Pk	12.2	-30.8	11.91	40	-28.09	0-360	300	H
2	92.2625	36.53	Pk	12.1	-30.5	18.13	43.52	-25.39	0-360	300	H
3	468.6	30.38	Pk	21.2	-28.1	23.48	46.02	-22.54	0-360	200	H

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

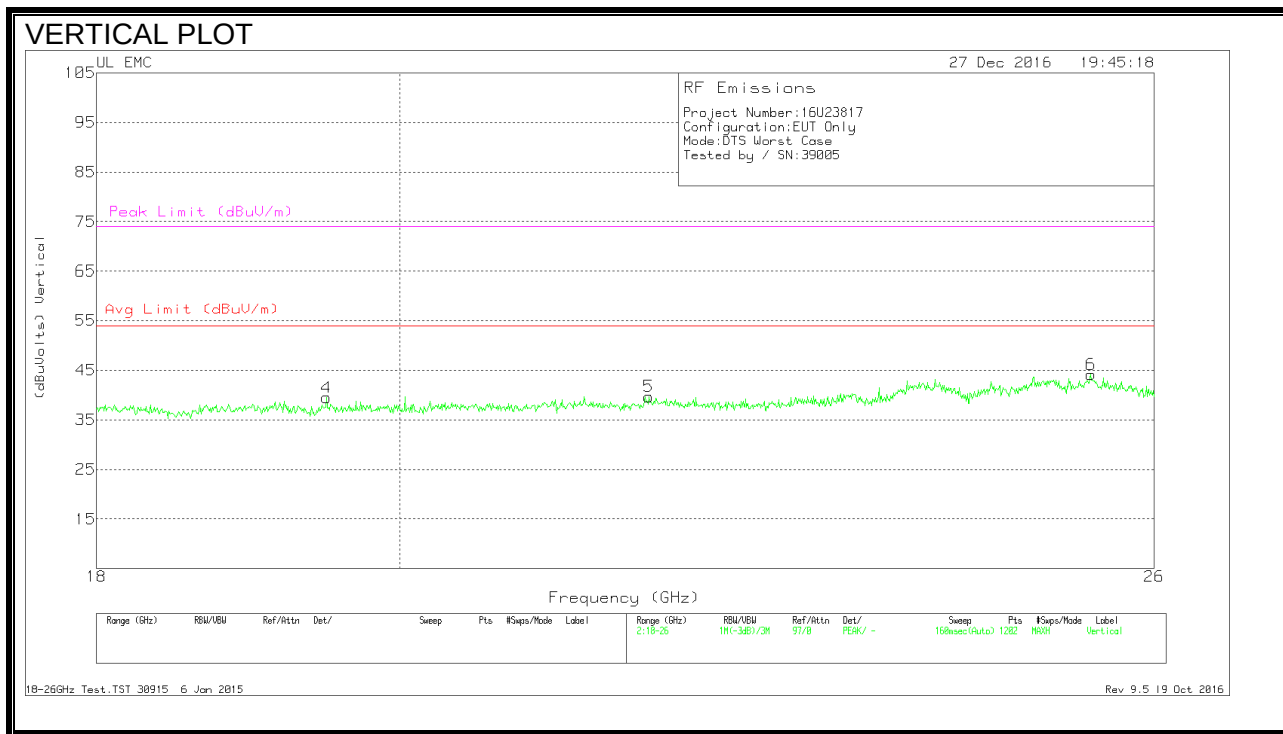
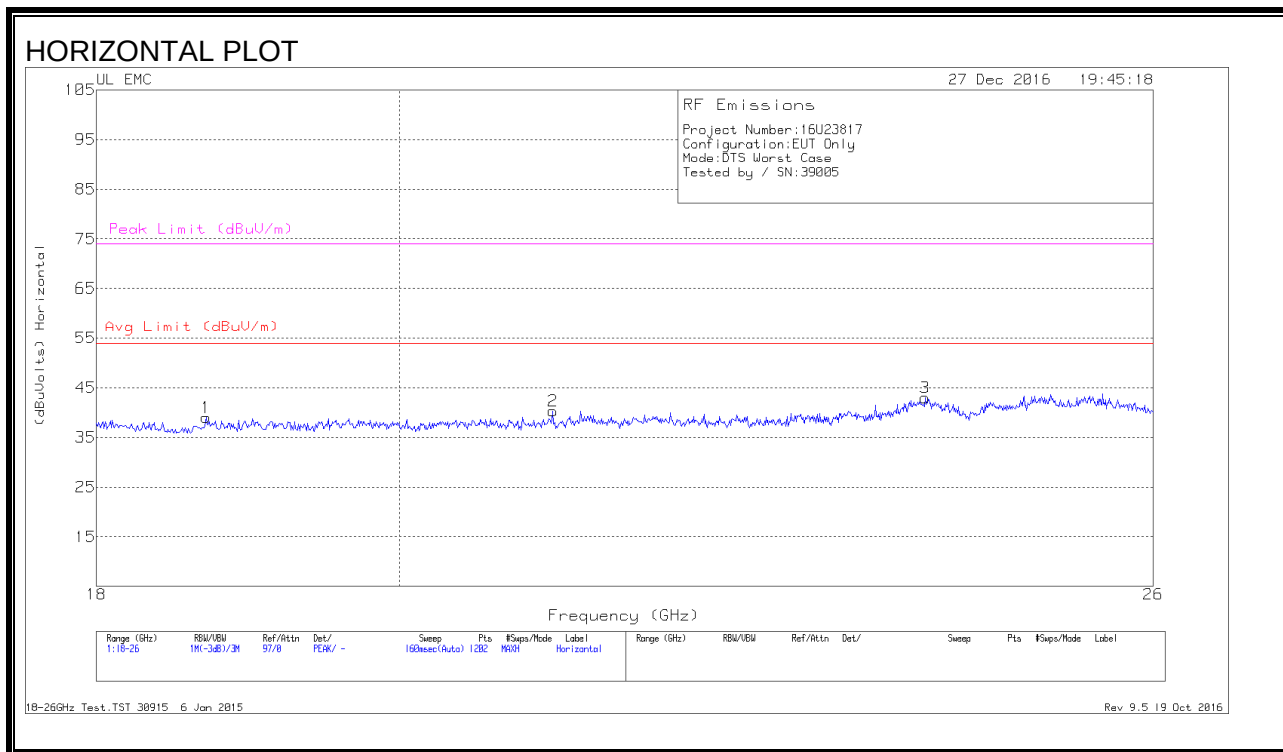
Pk - Peak detector

FCC Part 15 Subpart C 30-1000MHz.TST 30915 15 Jul 2014

Rev 9.5 26 Apr 2016

10.4. WORST-CASE 18 to 26 GHz

SPURIOUS EMISSIONS 18 TO 26 GHz (WORST-CASE CONFIGURATION, HORIZONTAL & VERTICAL)



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T449 (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	18.699	40.3	Pk	32.4	-24.2	-9.5	39	54	-15	74	-35
2	21.097	41.83	Pk	33.1	-25.1	-9.5	40.33	54	-13.67	74	-33.67
3	24.015	42.8	Pk	34	-24.3	-9.5	43	54	-11	74	-31
4	19.499	41.4	Pk	32.7	-25.1	-9.5	39.5	54	-14.5	74	-34.5
5	21.81	40.27	Pk	33.3	-24.4	-9.5	39.67	54	-14.33	74	-34.33
6	25.434	43.57	Pk	34.4	-24.3	-9.5	44.17	54	-9.83	74	-29.83

Pk - Peak detector

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

TEST PROCEDURE

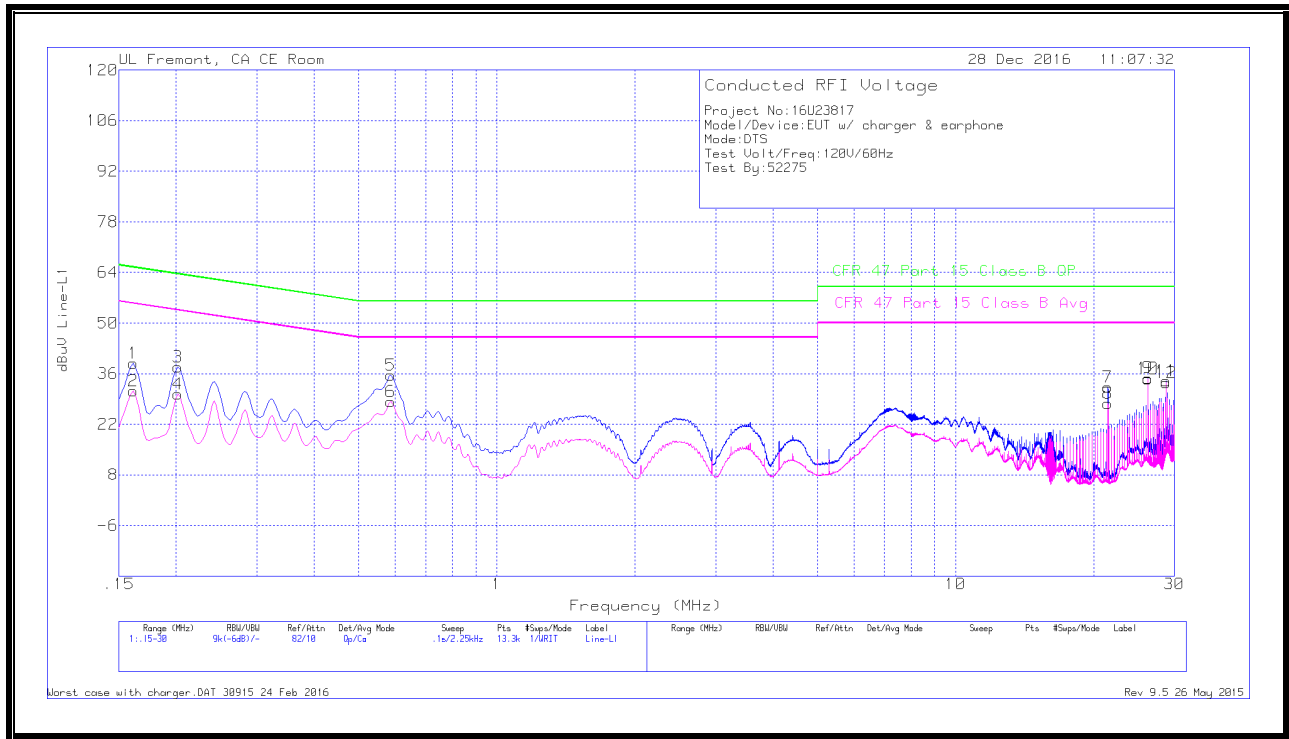
The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

11.1. EUT POWERED BY AC/DC ADAPTER VIA USB CABLE

LINE 1 RESULTS



WORST EMISSIONS

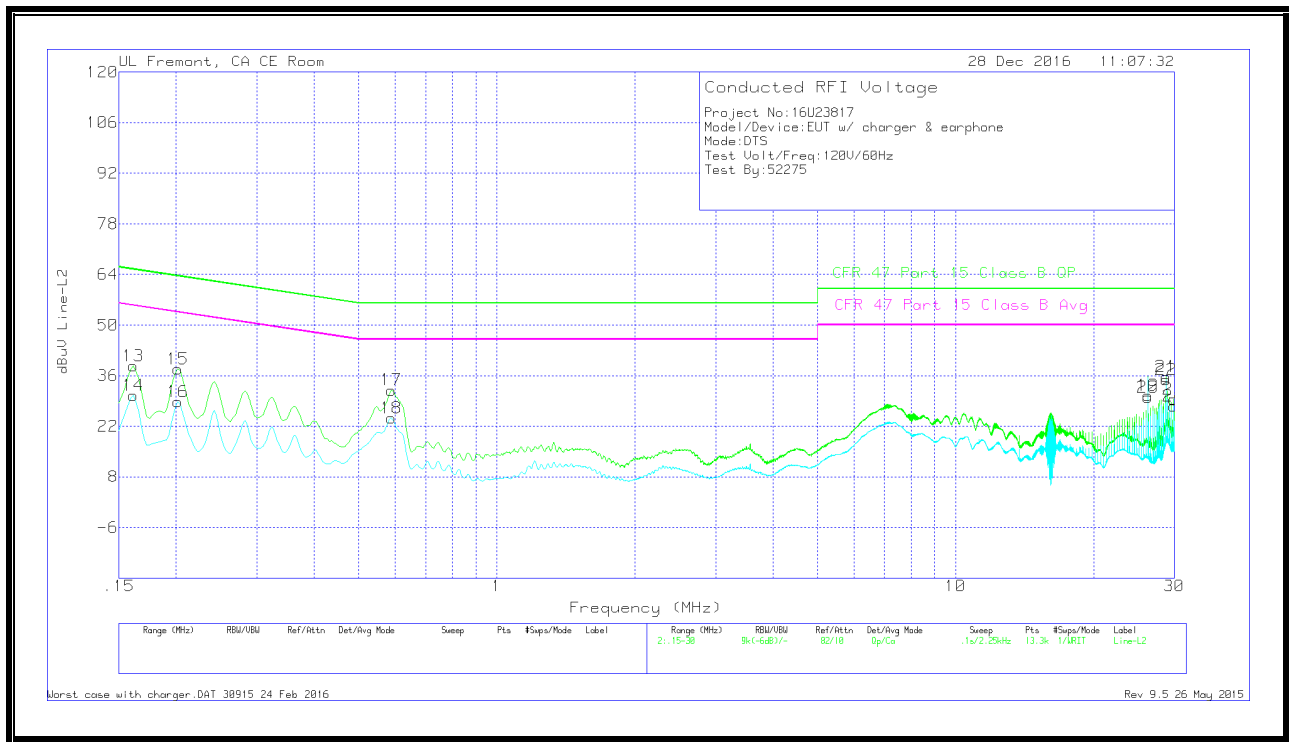
Trace Markers

Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables 1&3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.16125	28.79	Qp	0	0	10.1	38.89	65.4	-26.51	-	-
2	.16125	21.12	Ca	0	0	10.1	31.22	-	-	55.4	-24.18
3	.20175	27.69	Qp	0	0	10.1	37.79	63.54	-25.75	-	-
4	.20175	20.18	Ca	0	0	10.1	30.28	-	-	53.54	-23.26
5	.5865	25.47	Qp	0	0	10.1	35.57	56	-20.43	-	-
6	.5865	18.13	Ca	0	0	10.1	28.23	-	-	46	-17.77
7	21.50025	21.64	Qp	0	.2	10.4	32.24	60	-27.76	-	-
8	21.50025	17.2	Ca	0	.2	10.4	27.8	-	-	50	-22.2
9	26.25	23.89	Qp	.1	.3	10.5	34.79	60	-25.21	-	-
10	26.25	23.71	Ca	.1	.3	10.5	34.61	-	-	50	-15.39
11	28.74975	23.15	Qp	.1	.3	10.4	33.95	60	-26.05	-	-
12	28.74975	22.62	Ca	.1	.3	10.4	33.42	-	-	50	-16.58

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



WORST EMISSIONS

Trace Markers

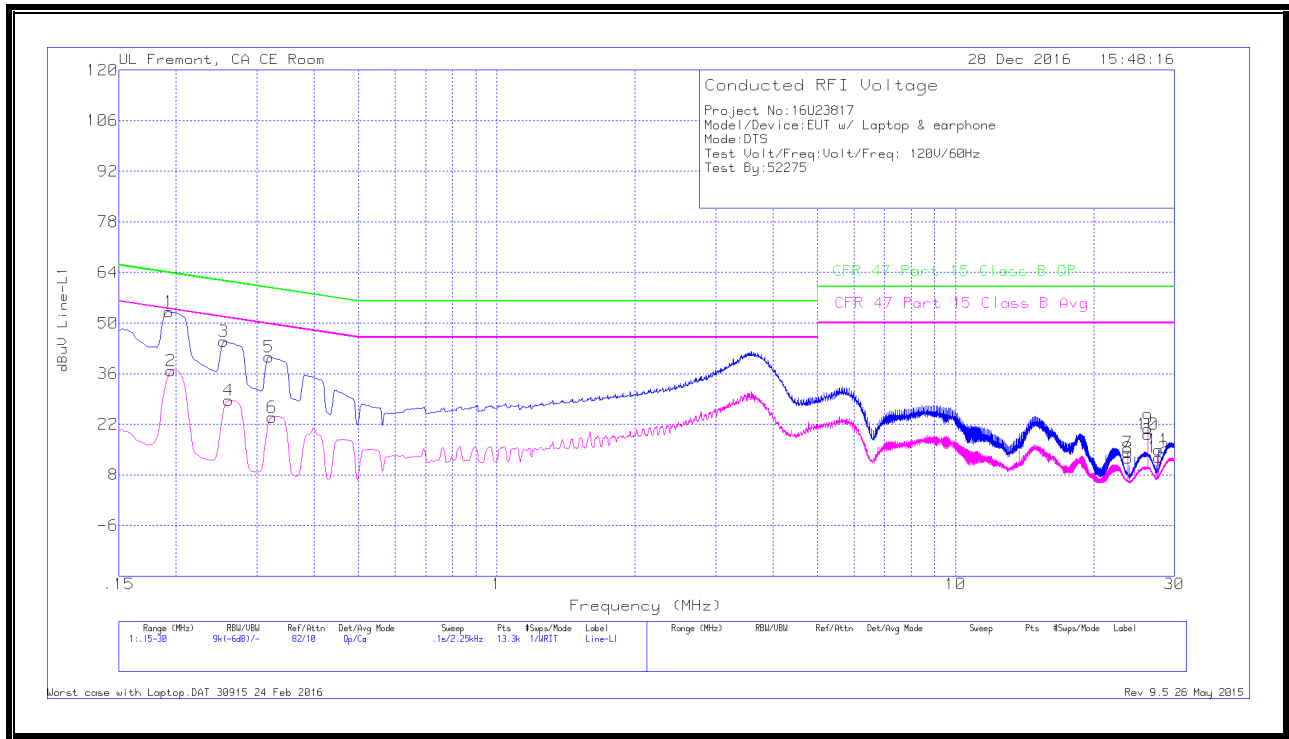
Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables 2&3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)M argin (dB)
13	.16125	28.6	Qp	0	0	10.1	38.7	65.4	-26.7	-	-
14	.16125	20.45	Ca	0	0	10.1	30.55	-	-	55.4	-24.85
15	.20175	27.78	Qp	0	0	10.1	37.88	63.54	-25.66	-	-
16	.20175	18.68	Ca	0	0	10.1	28.78	-	-	53.54	-24.76
17	.58875	21.91	Qp	0	0	10.1	32.01	56	-23.99	-	-
18	.58875	14.19	Ca	0	0	10.1	24.29	-	-	46	-21.71
19	26.2545	19.71	Qp	.1	.3	10.5	30.61	60	-29.39	-	-
20	26.2545	19.04	Ca	.1	.3	10.5	29.94	-	-	50	-20.06
21	28.74975	24.98	Qp	.1	.3	10.4	35.78	60	-24.22	-	-
22	28.74975	24.13	Ca	.1	.3	10.4	34.93	-	-	50	-15.07
23	29.85	18.76	Qp	.1	.3	10.4	29.56	60	-30.44	-	-
24	29.85	16.84	Ca	.1	.3	10.4	27.64	-	-	50	-22.36

Qp - Quasi-Peak detector

Ca - CISPR average detection

11.2. EUT POWERED BY HOST PC VIA USB CABLE

LINE 1 RESULTS



WORST EMISSIONS

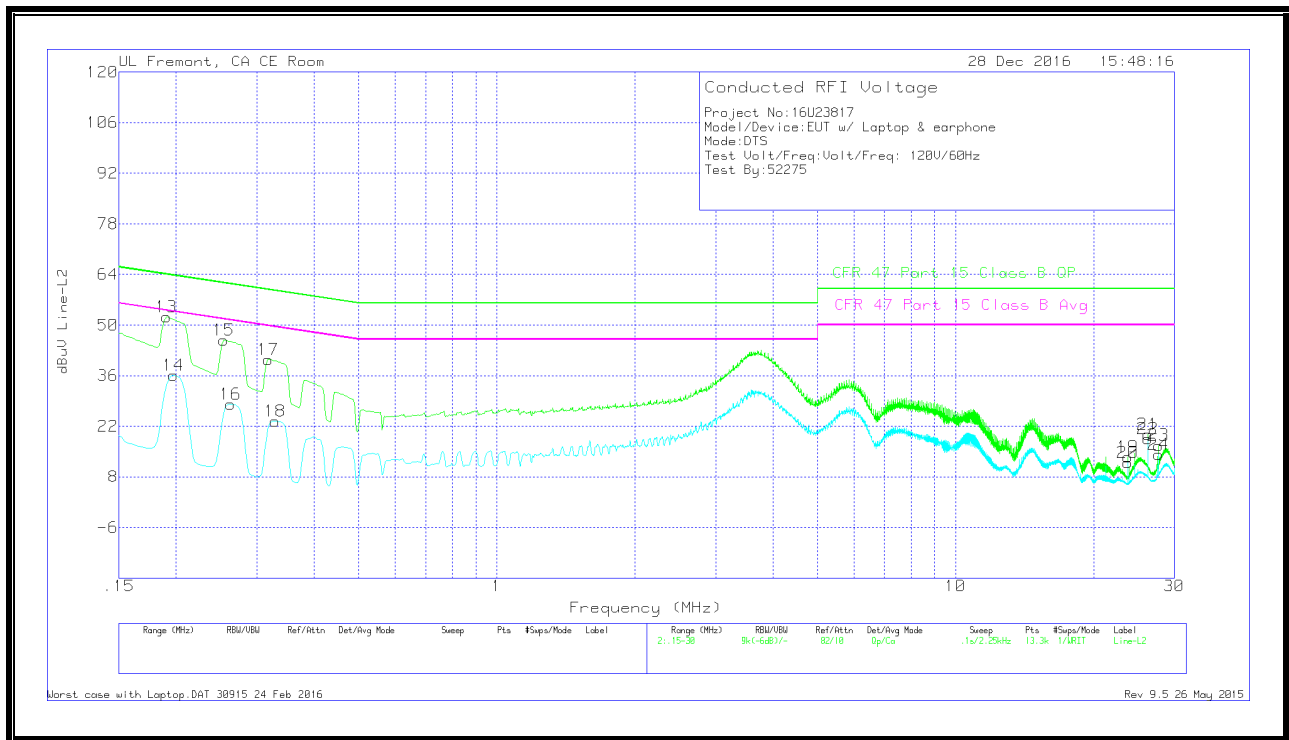
Trace Markers

Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables 1&3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.19275	42.98	Qp	0	0	10.1	53.08	63.92	-10.84	-	-
2	.195	26.65	Ca	0	0	10.1	36.75	-	-	53.82	-17.07
3	.2535	34.81	Qp	0	0	10.1	44.91	61.64	-16.73	-	-
4	.26025	18.51	Ca	0	0	10.1	28.61	-	-	51.42	-22.81
5	.31875	30.53	Qp	0	0	10.1	40.63	59.74	-19.11	-	-
6	.32325	13.85	Ca	0	0	10.1	23.95	-	-	49.62	-25.67
7	23.75025	3.43	Qp	.1	.2	10.4	14.13	60	-45.87	-	-
8	23.75025	1.98	Ca	.1	.2	10.4	12.68	-	-	50	-37.32
9	26.25	9.97	Qp	.1	.3	10.5	20.87	60	-39.13	-	-
10	26.25	8.26	Ca	.1	.3	10.5	19.16	-	-	50	-30.84
11	27.69225	3.96	Qp	.1	.3	10.5	14.86	60	-45.14	-	-
12	27.69225	1.92	Ca	.1	.3	10.5	12.82	-	-	50	-37.18

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



WORST EMISSIONS

Trace Markers

Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables 2&3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
13	.1905	42.19	Qp	0	0	10.1	52.29	64.01	-11.72	-	-
14	.19725	26.01	Ca	0	0	10.1	36.11	-	-	53.73	-17.62
15	.2535	35.73	Qp	0	0	10.1	45.83	61.64	-15.81	-	-
16	.2625	17.96	Ca	0	0	10.1	28.06	-	-	51.35	-23.29
17	.31762	30.41	Qp	0	0	10.1	40.51	59.77	-19.26	-	-
18	.32887	13.32	Ca	0	0	10.1	23.42	-	-	49.48	-26.06
19	23.75025	2.82	Qp	.1	.2	10.4	13.52	60	-46.48	-	-
20	23.75025	1.31	Ca	.1	.2	10.4	12.01	-	-	50	-37.99
21	26.25	8.81	Qp	.1	.3	10.5	19.71	60	-40.29	-	-
22	26.25	7.71	Ca	.1	.3	10.5	18.61	-	-	50	-31.39
23	27.69225	5.81	Qp	.1	.3	10.5	16.71	60	-43.29	-	-
24	27.69225	3.31	Ca	.1	.3	10.5	14.21	-	-	50	-35.79

Qp - Quasi-Peak detector

Ca - CISPR average detection