

8.6.6. CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS

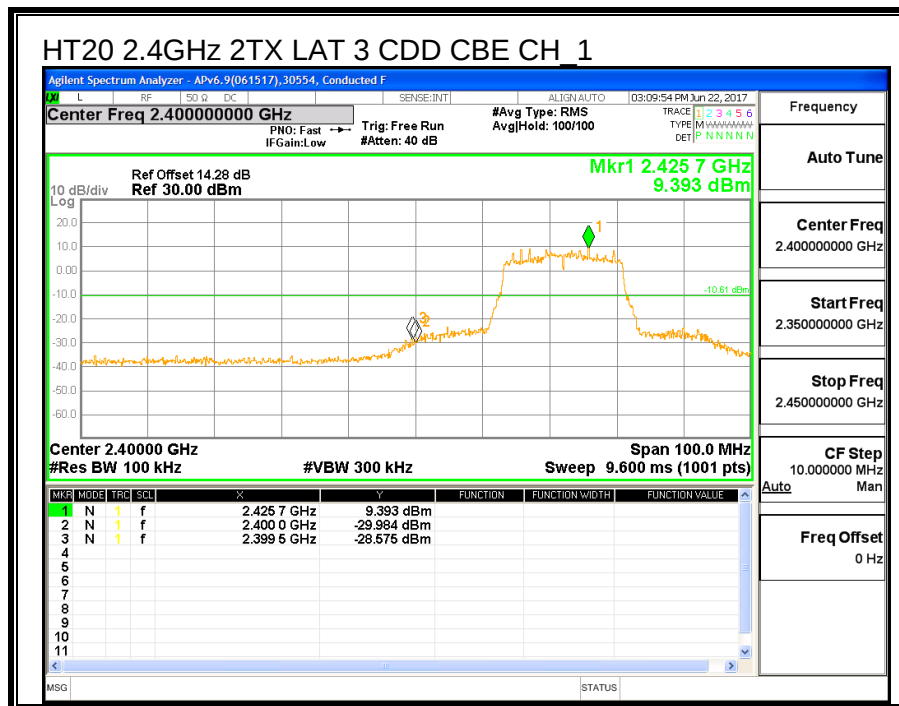
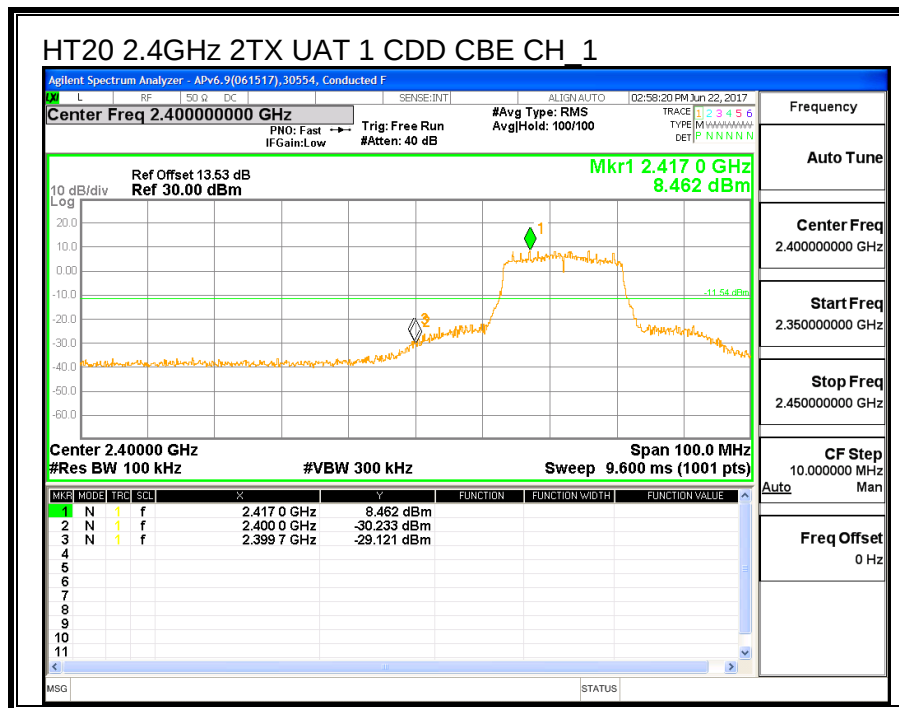
LIMITS

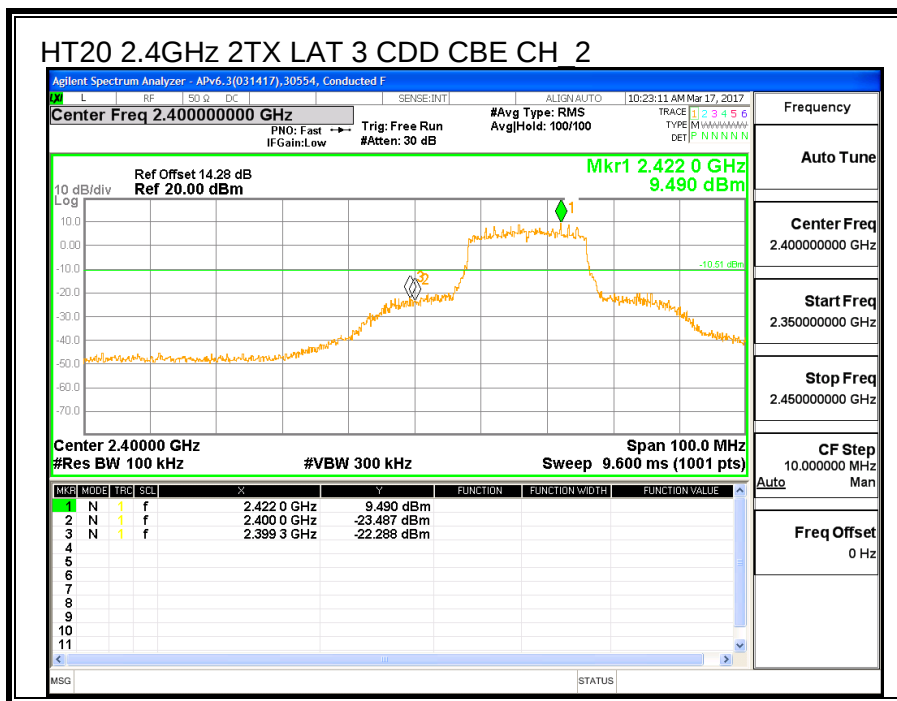
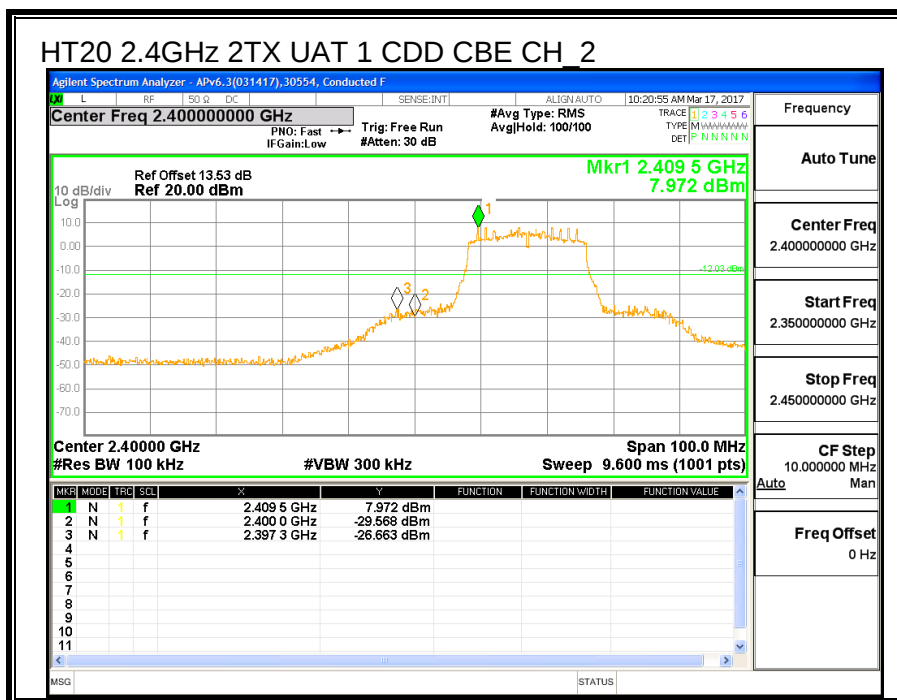
FCC §15.247 (d)

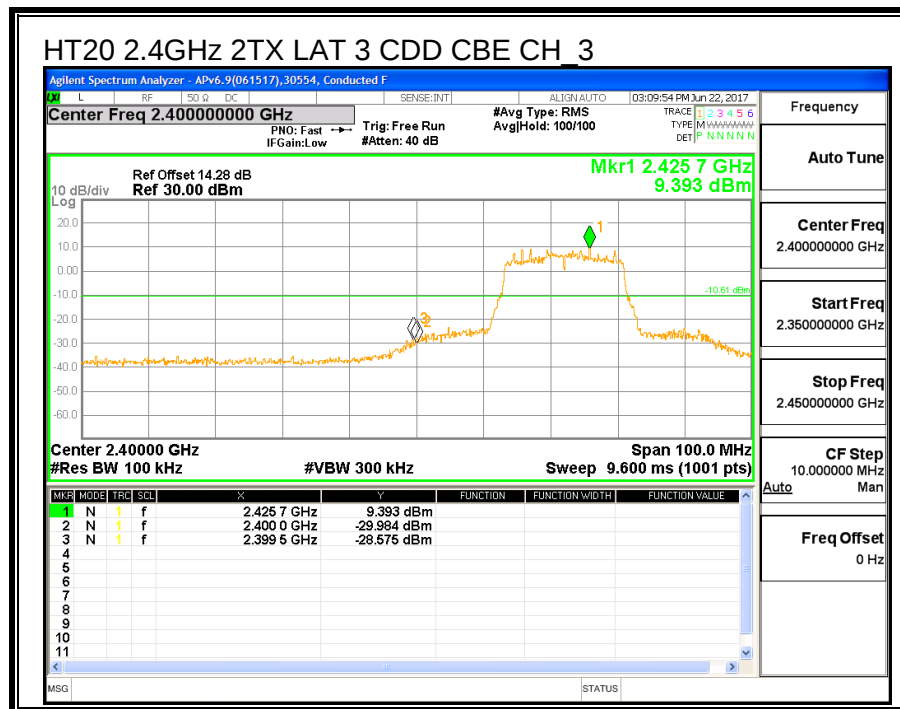
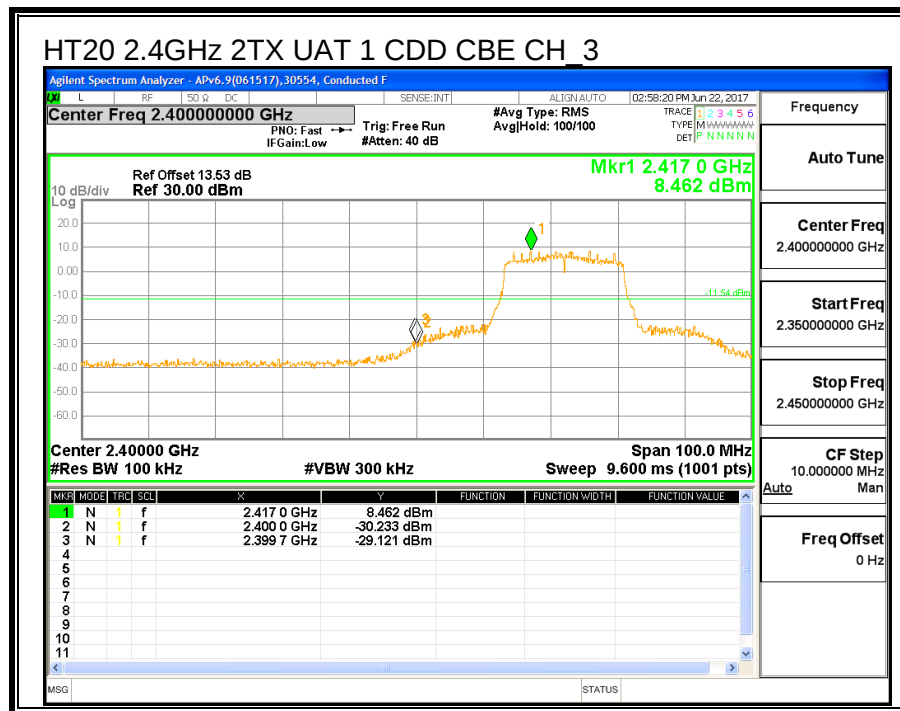
IC RSS-247 (5.5)

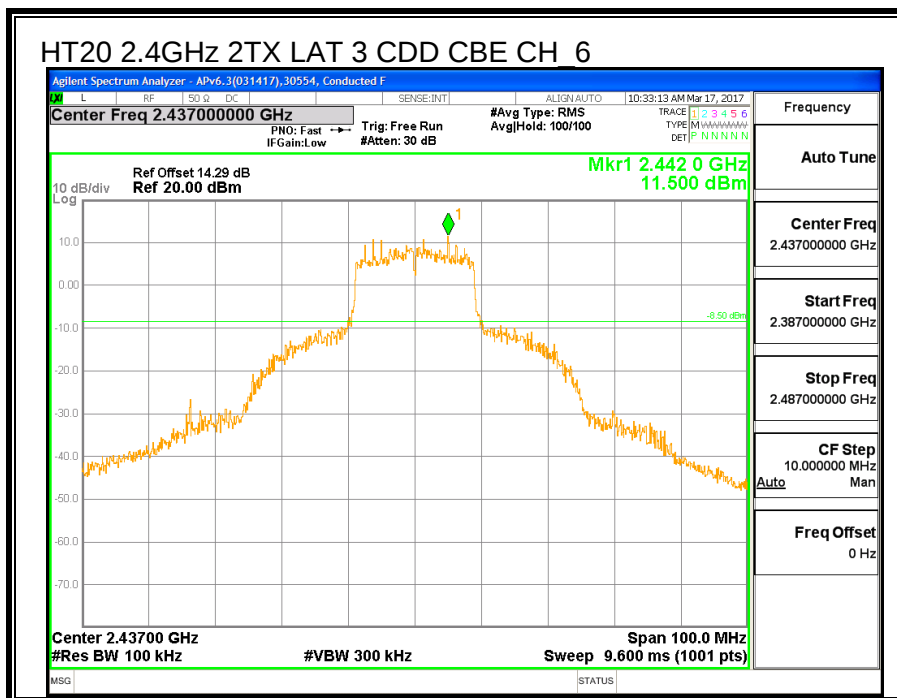
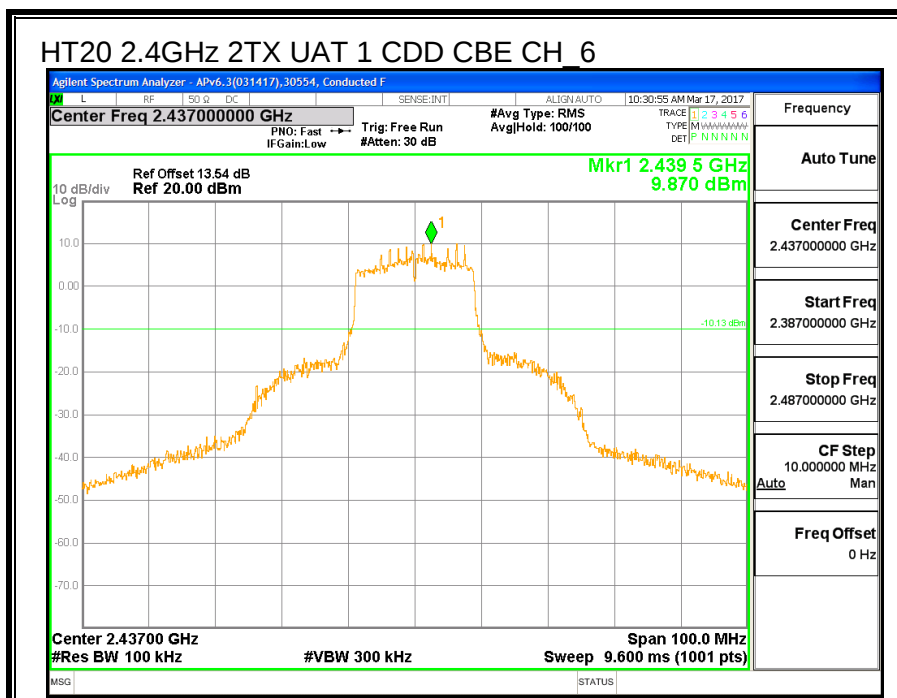
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the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

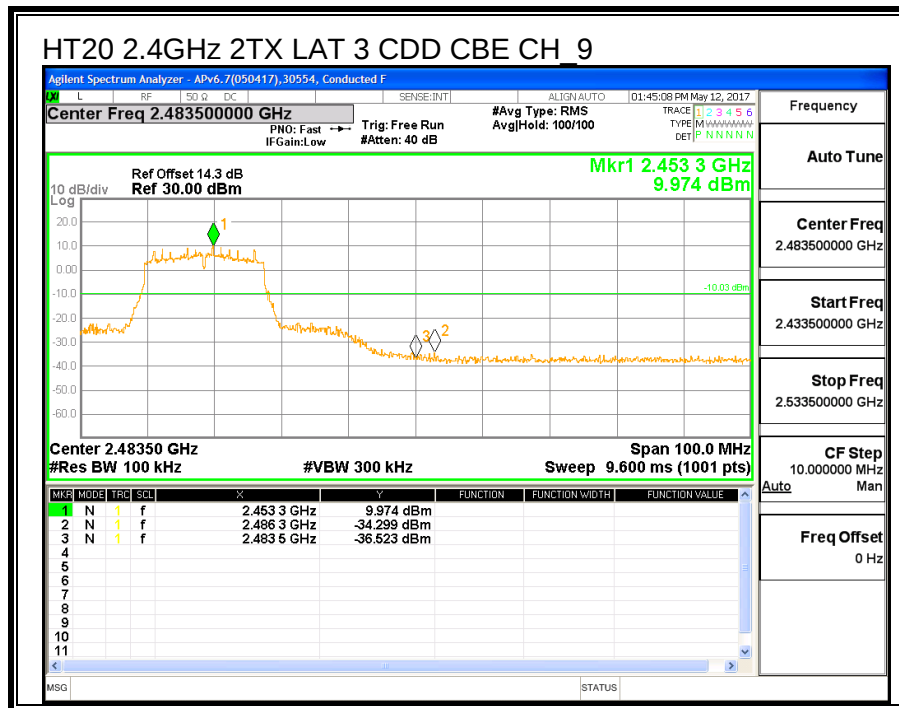
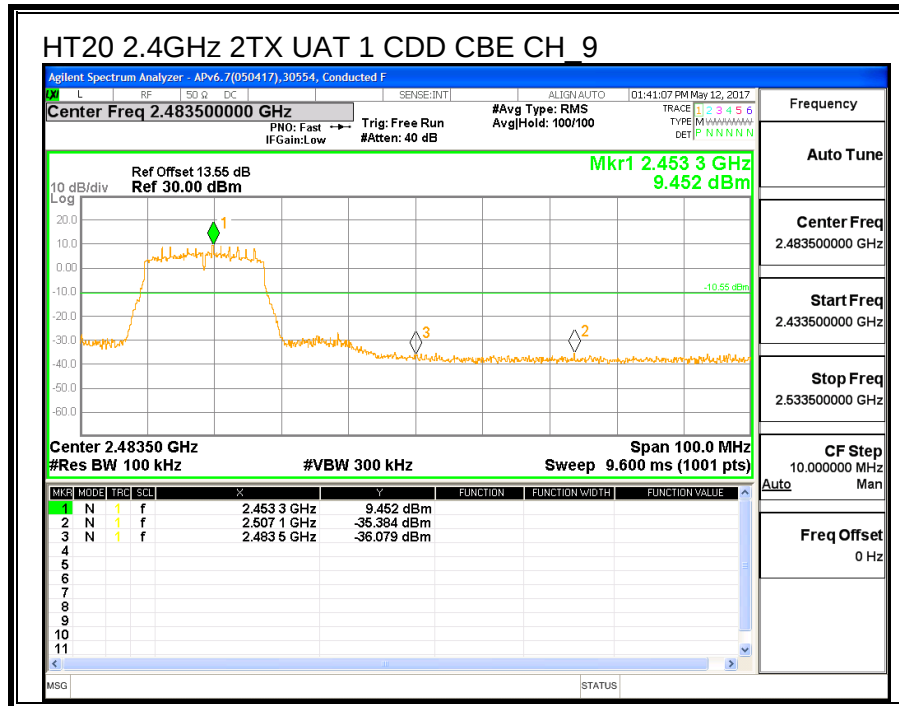
CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS

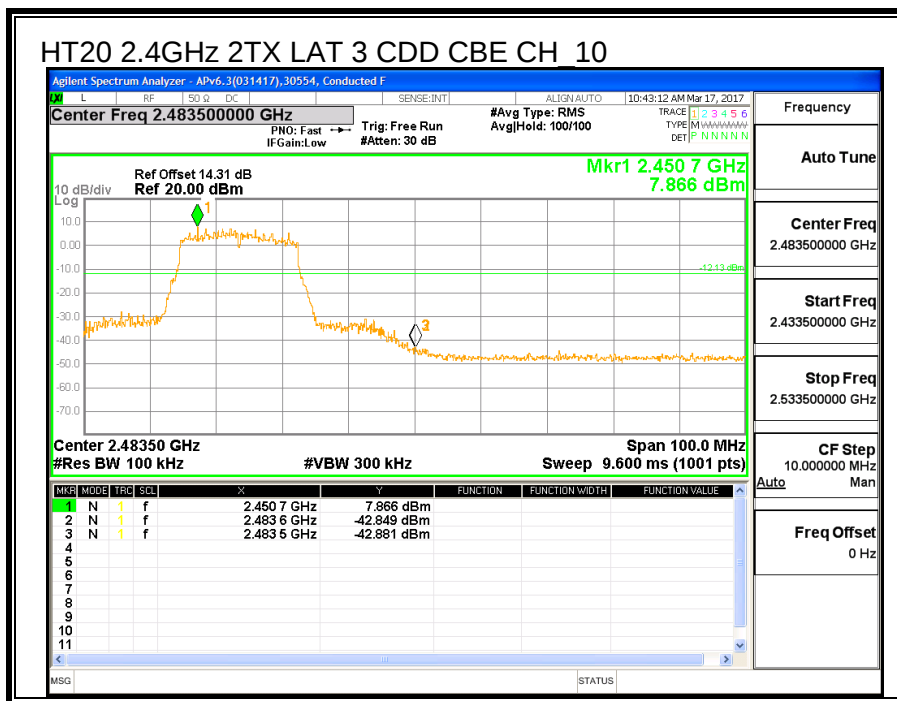
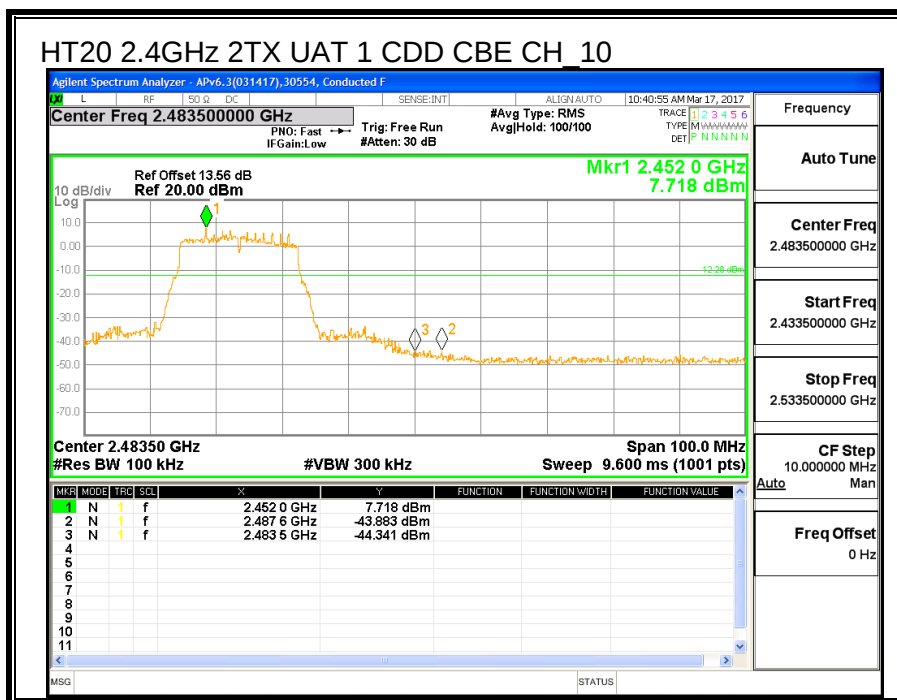


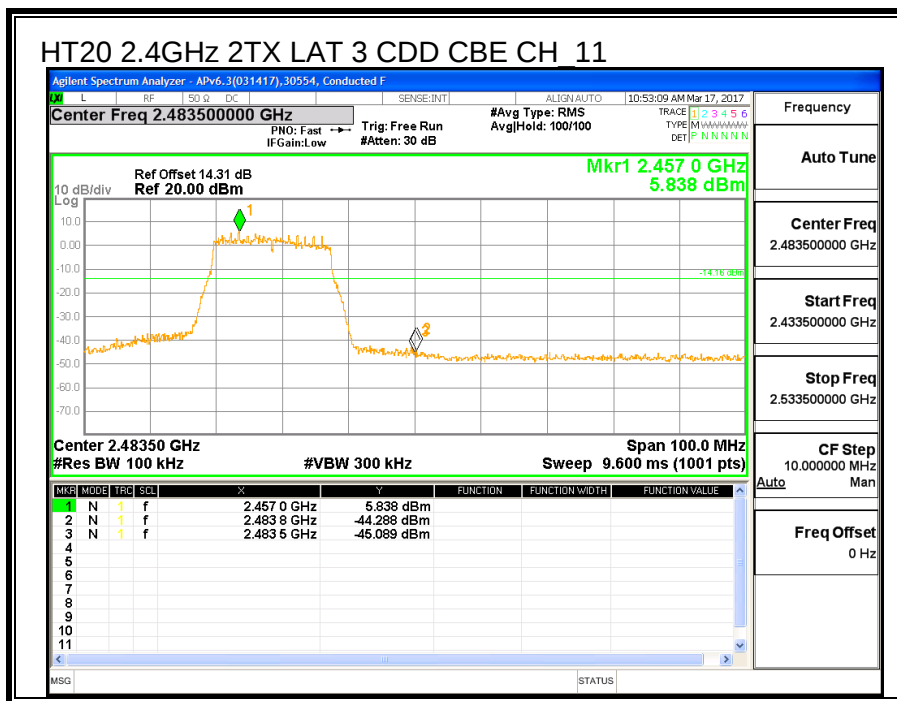
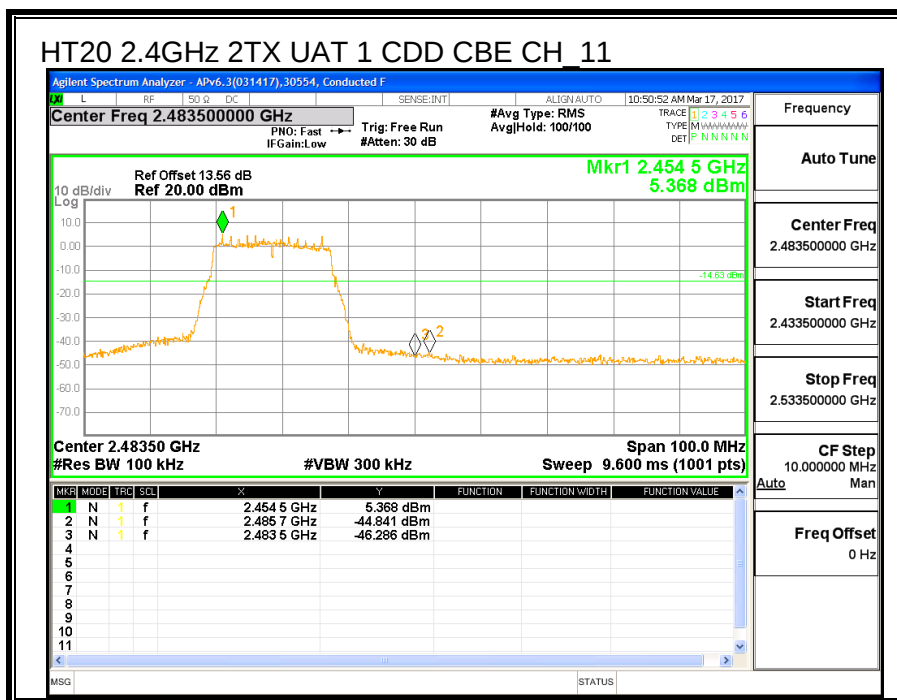


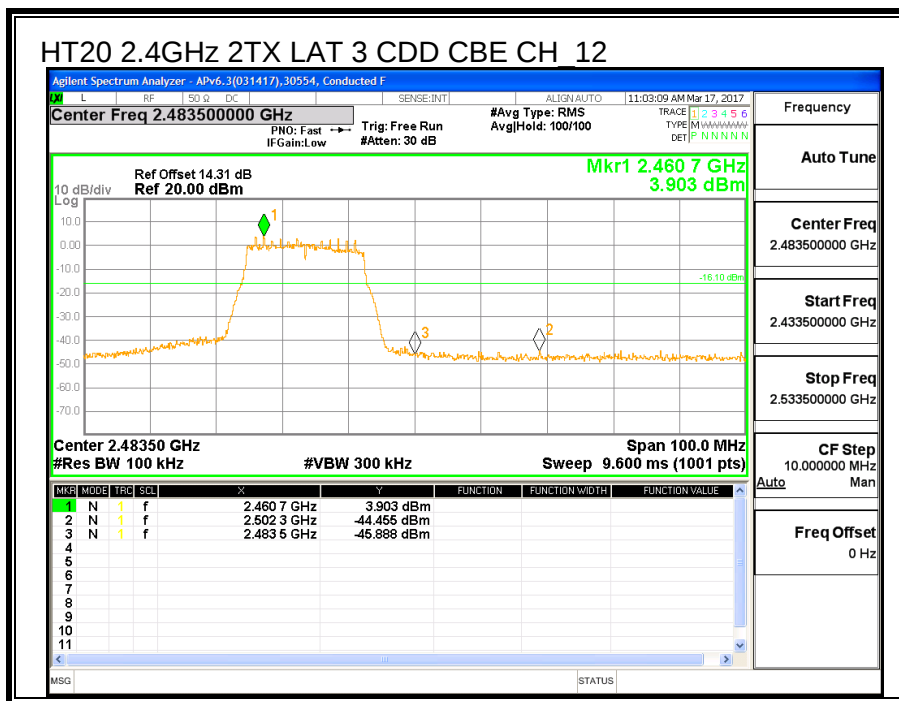
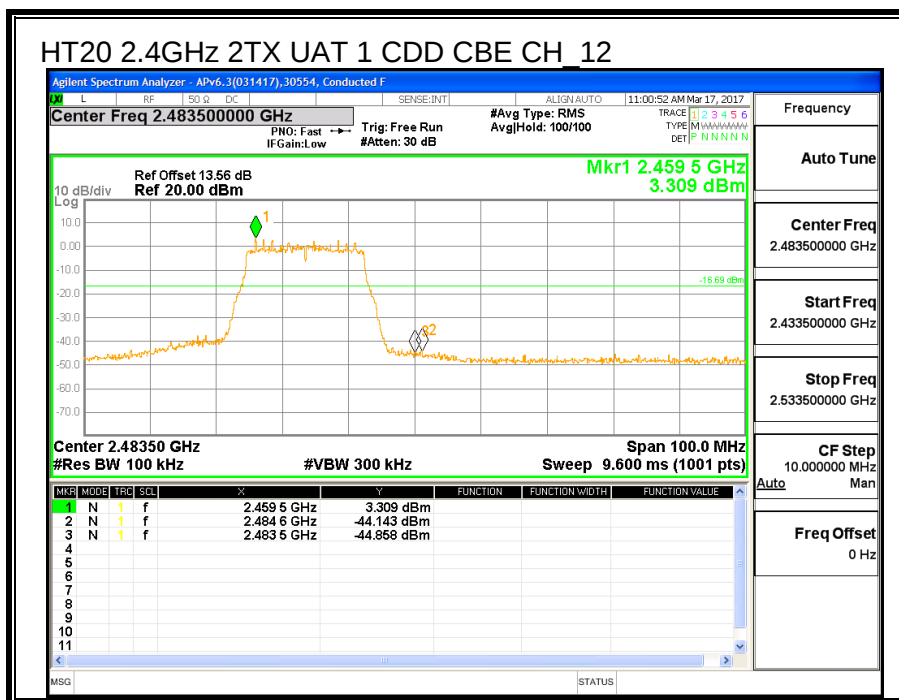


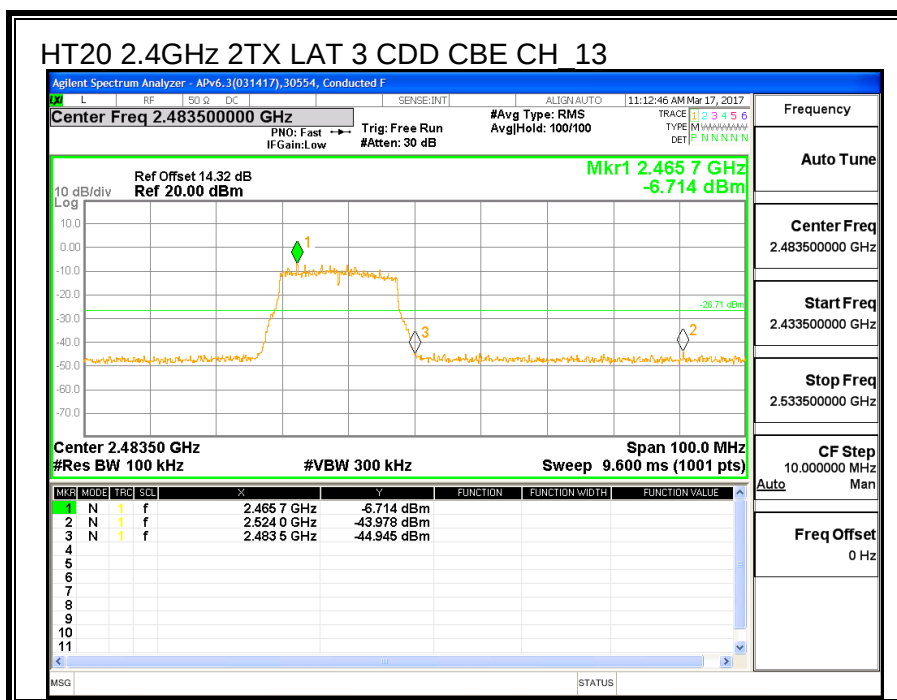
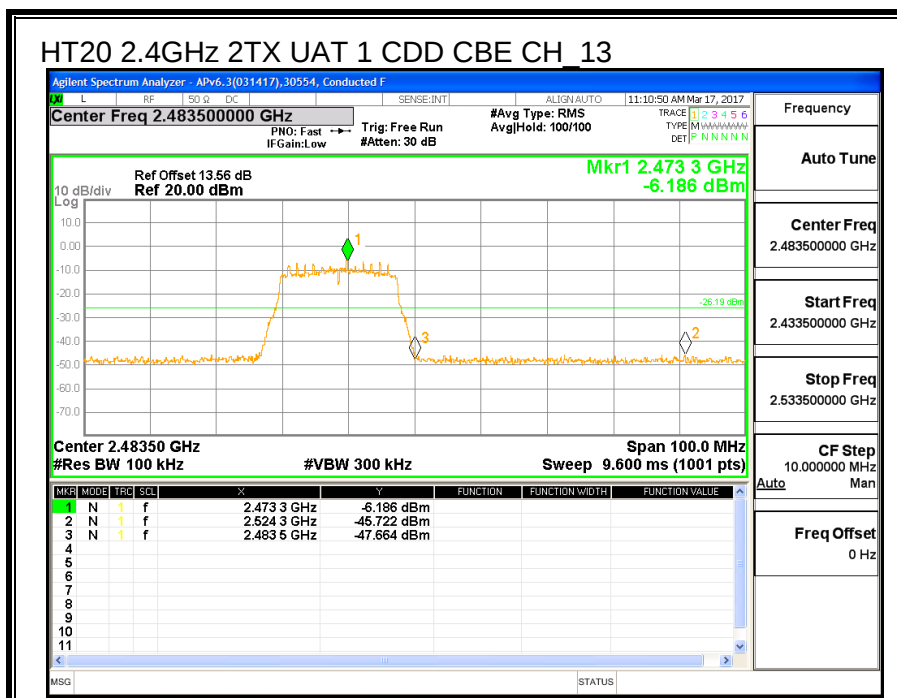


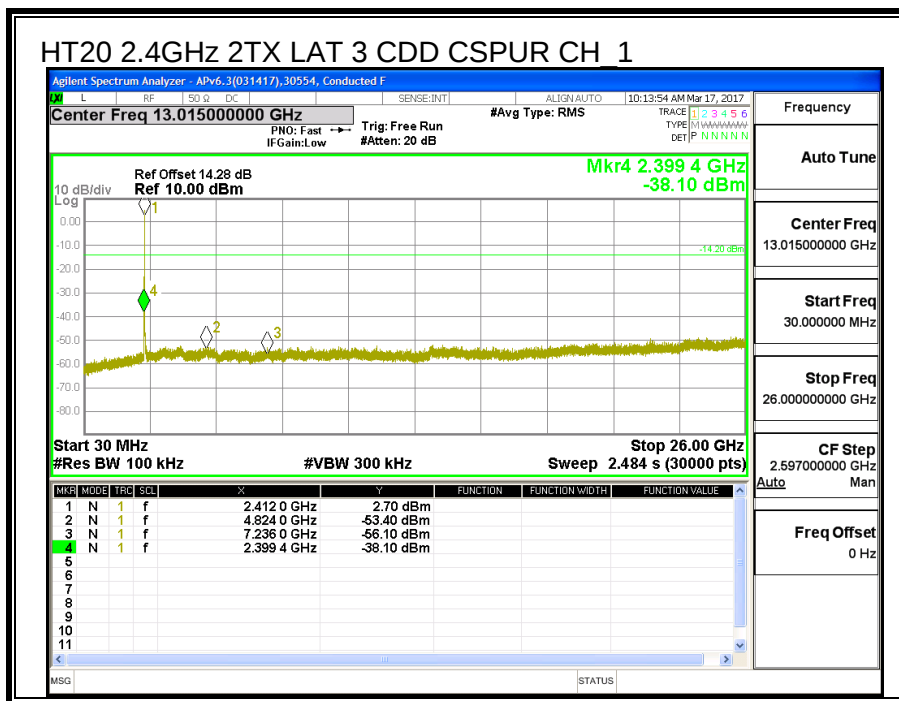
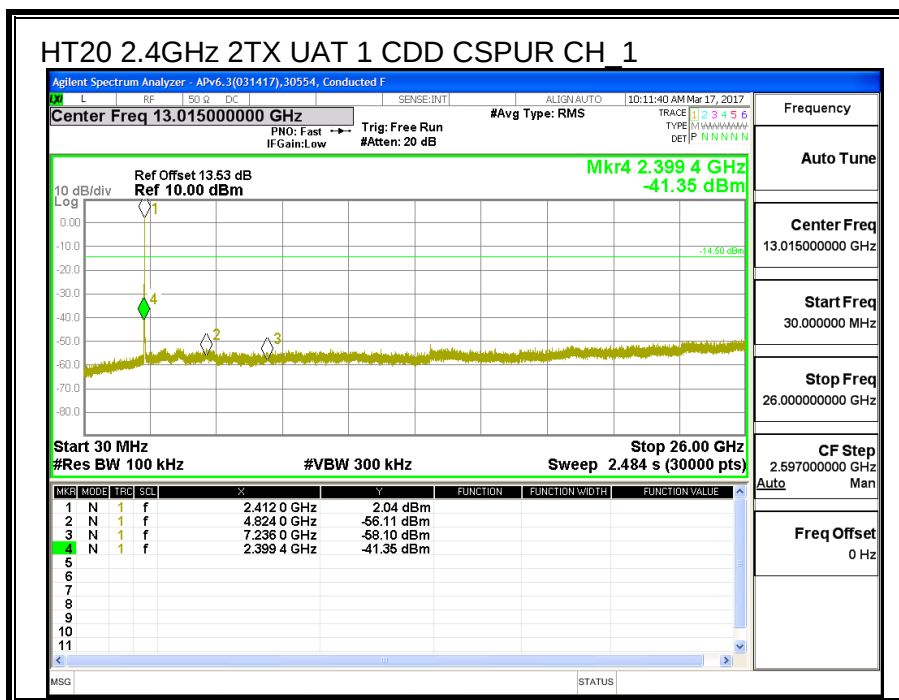


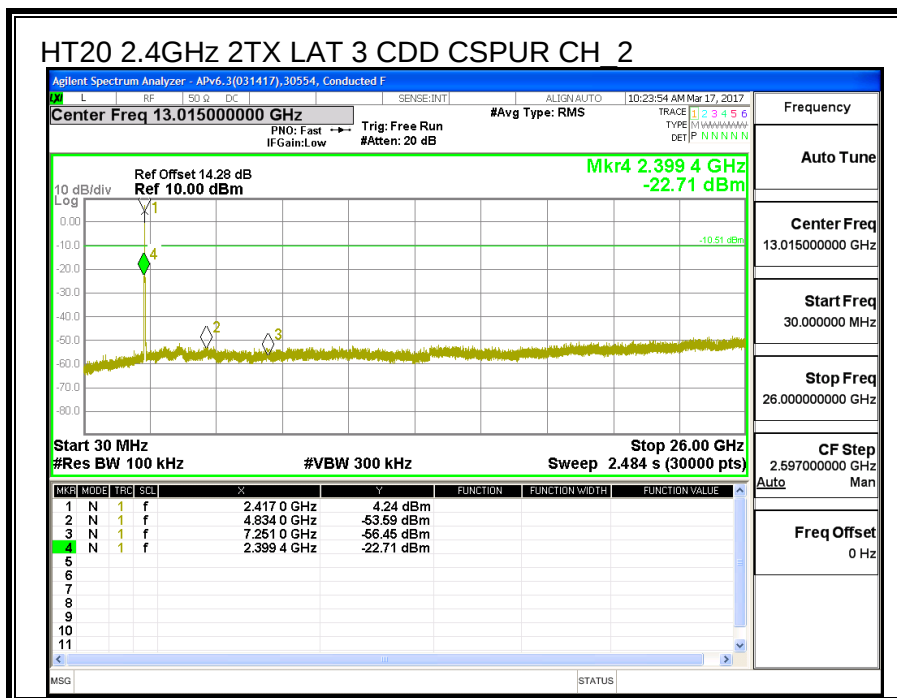
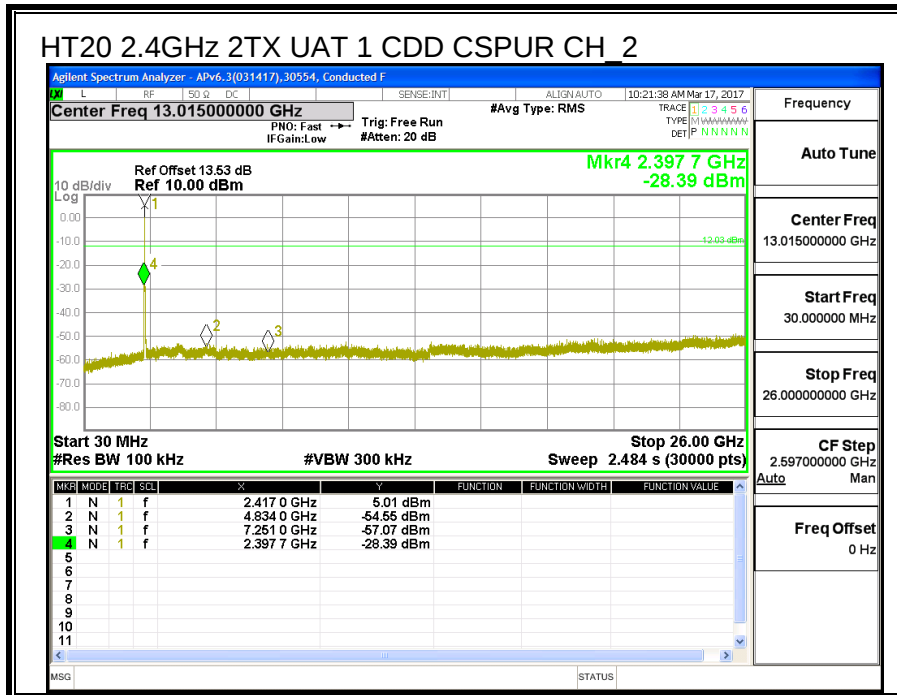


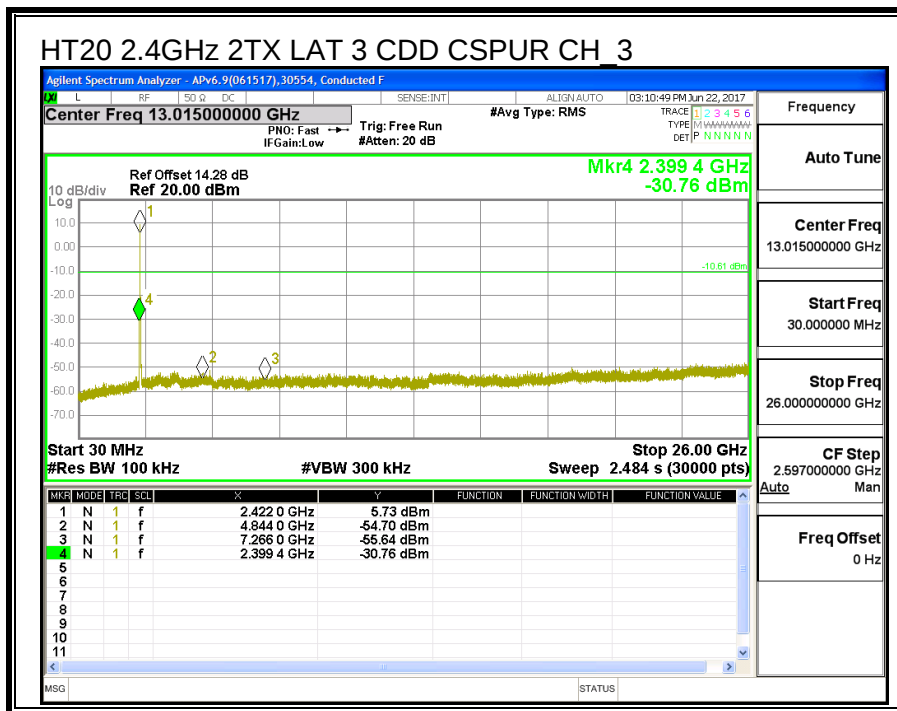
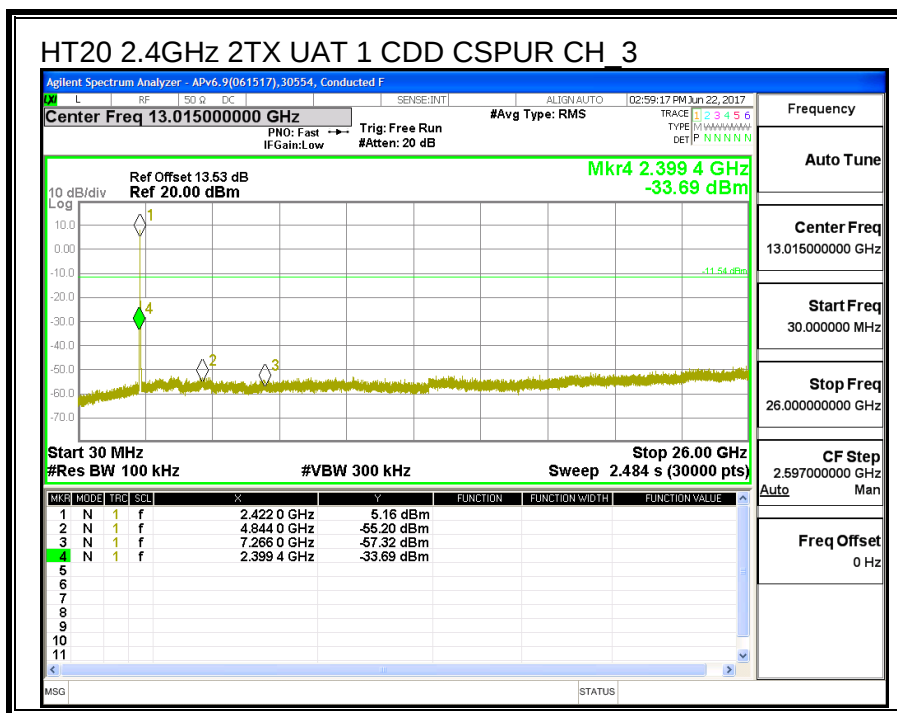


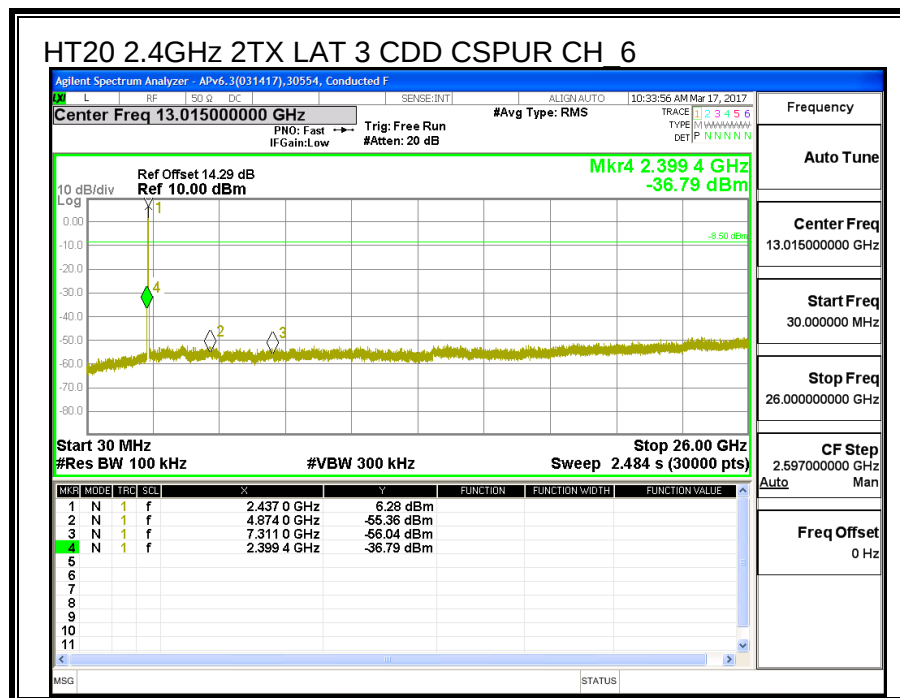
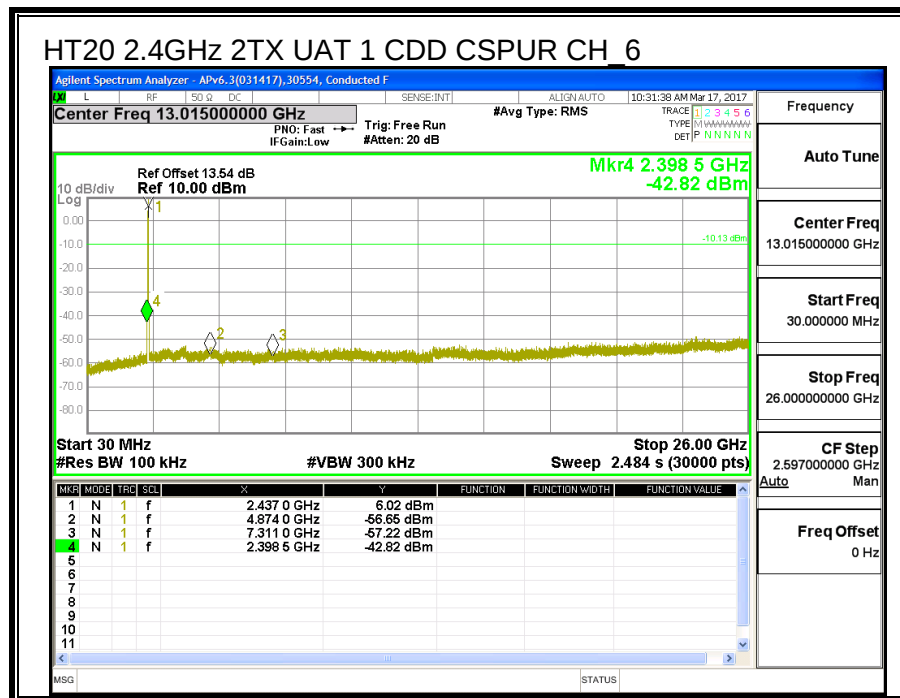


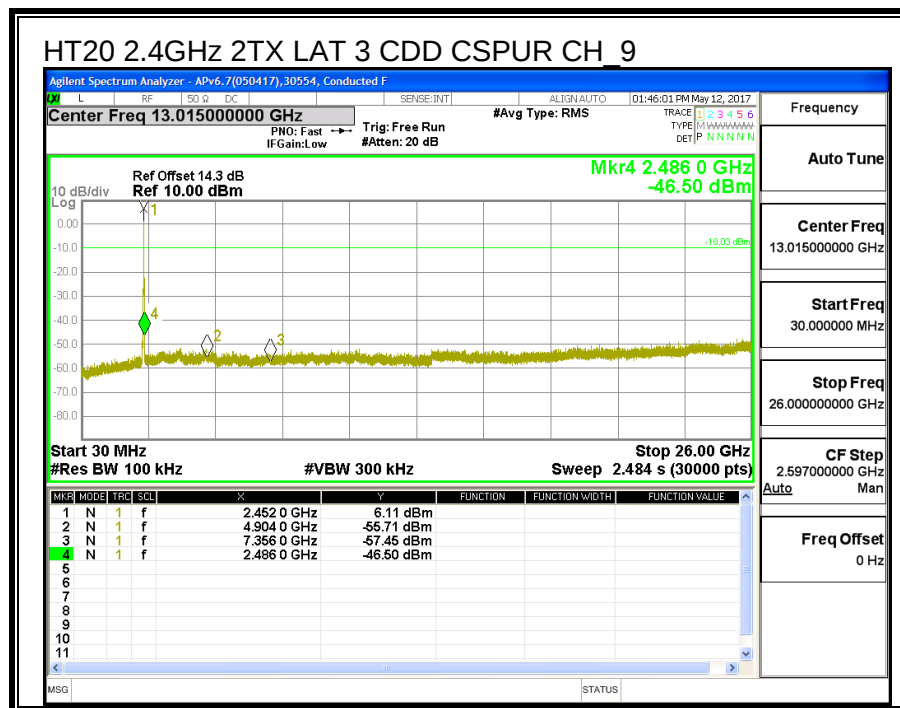
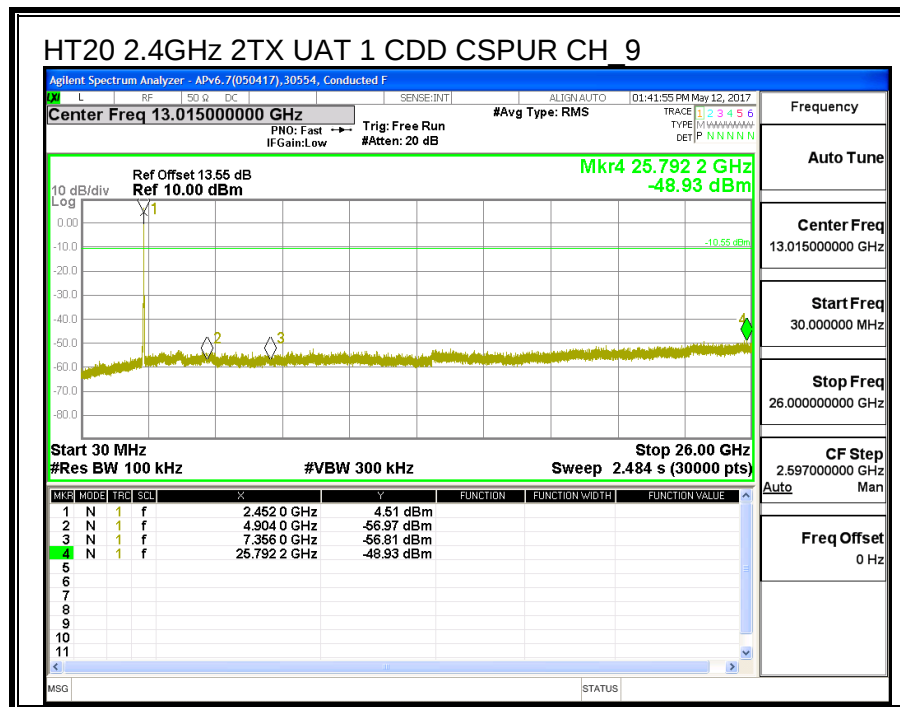


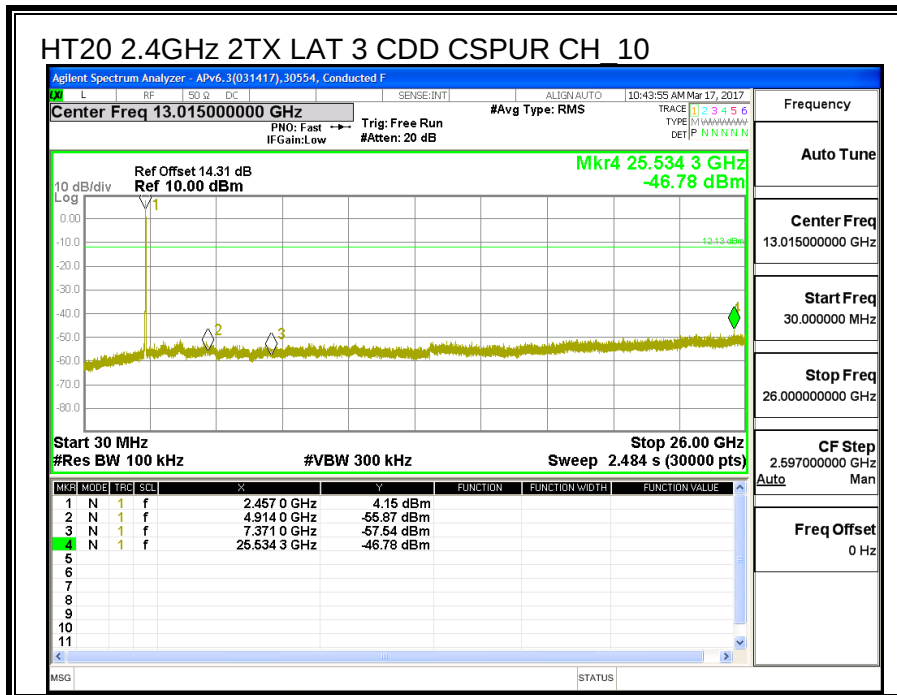
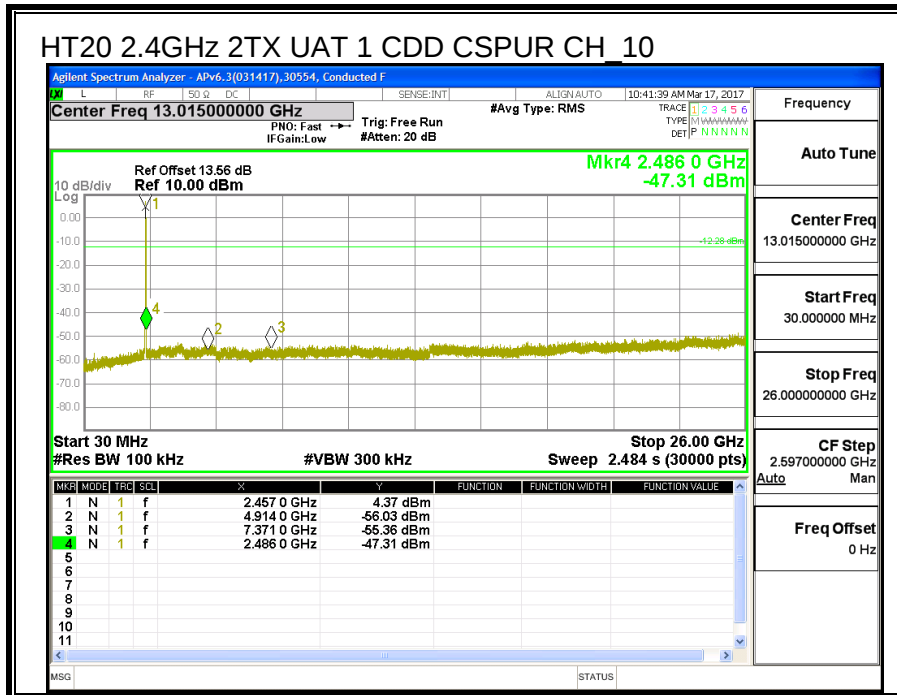


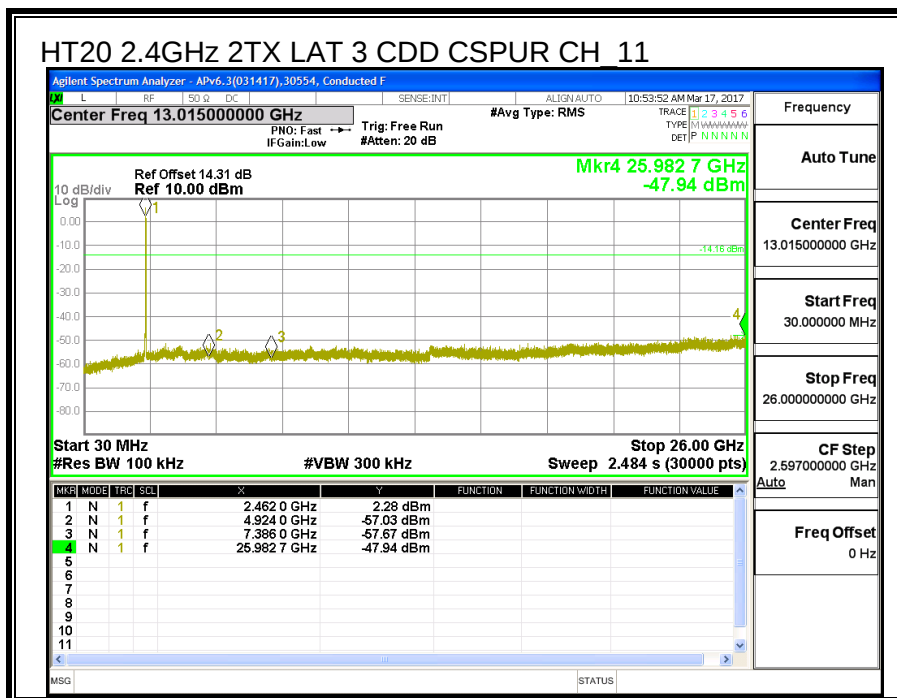
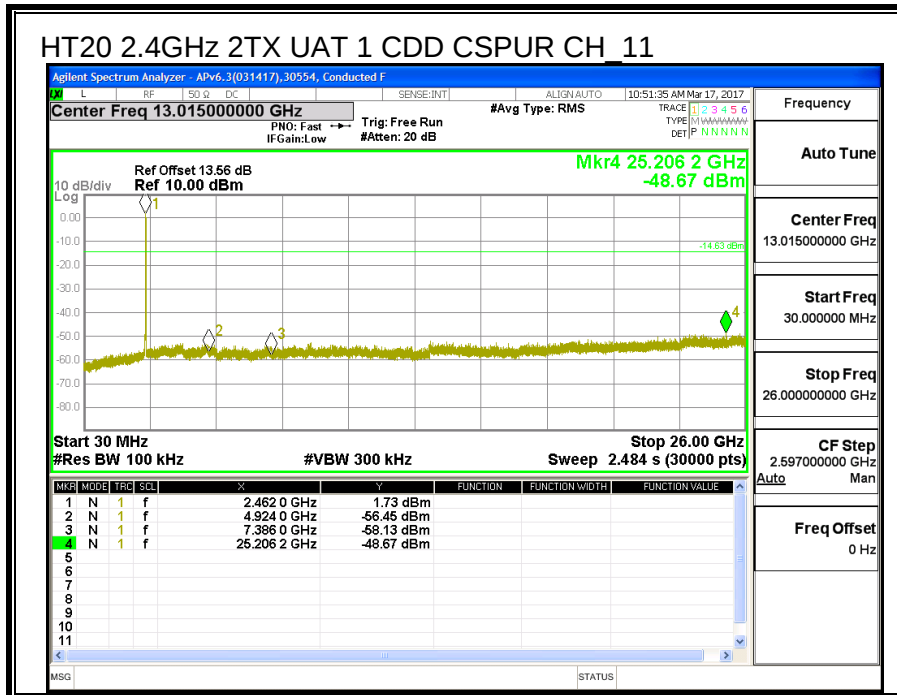


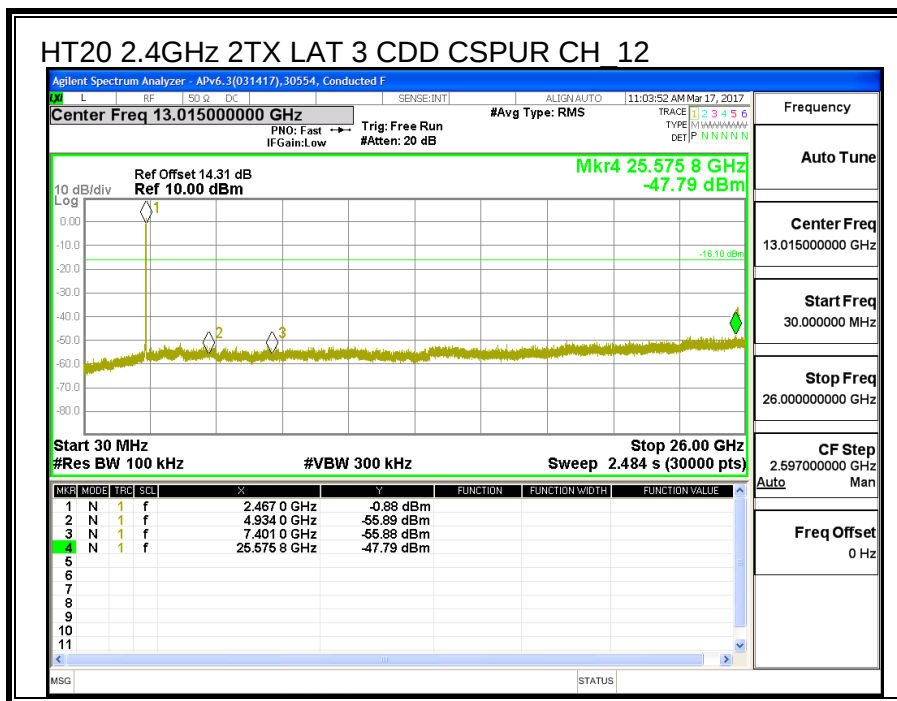
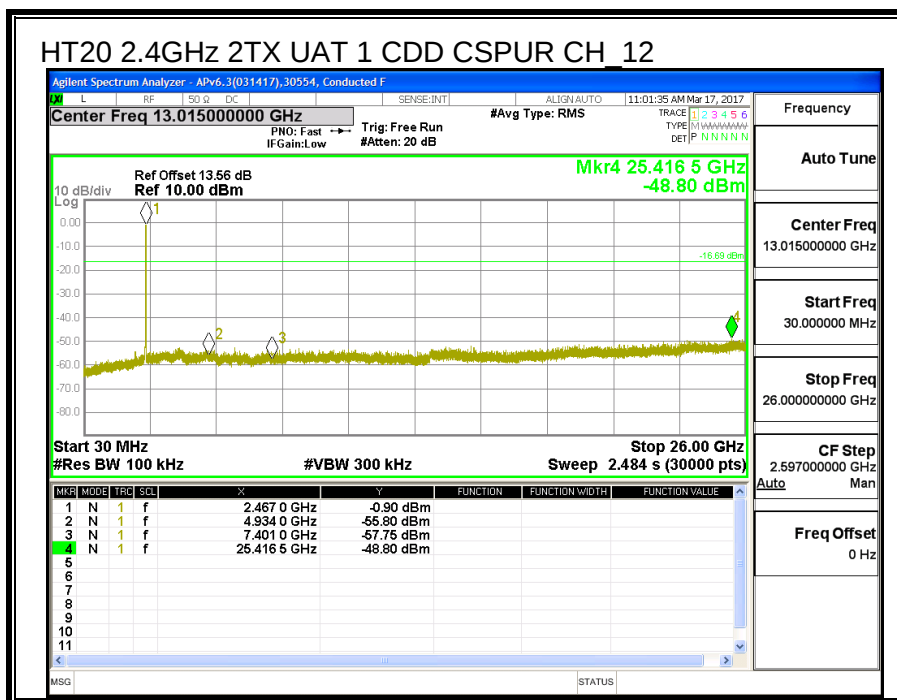


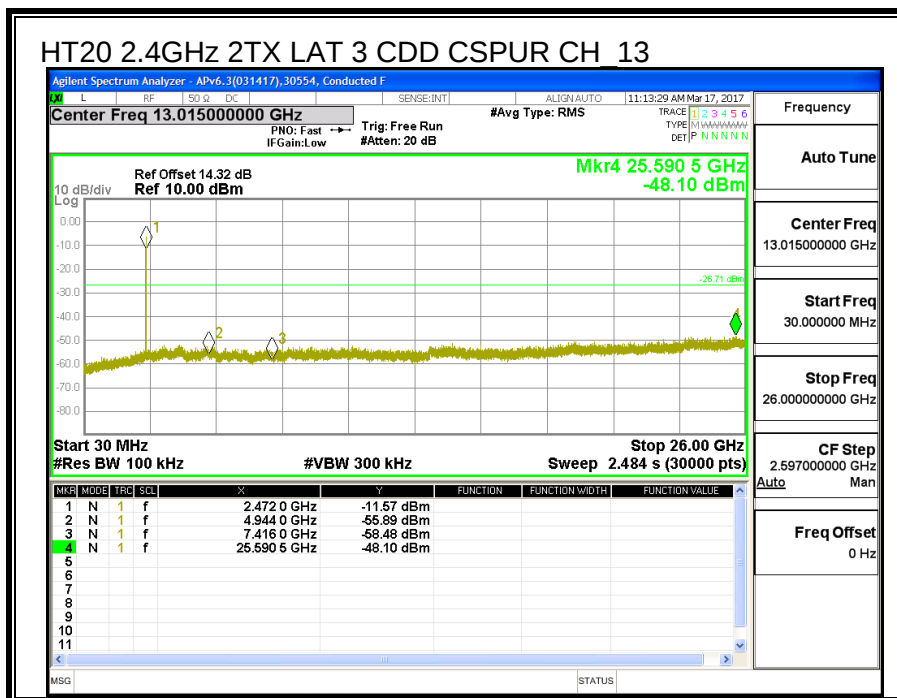
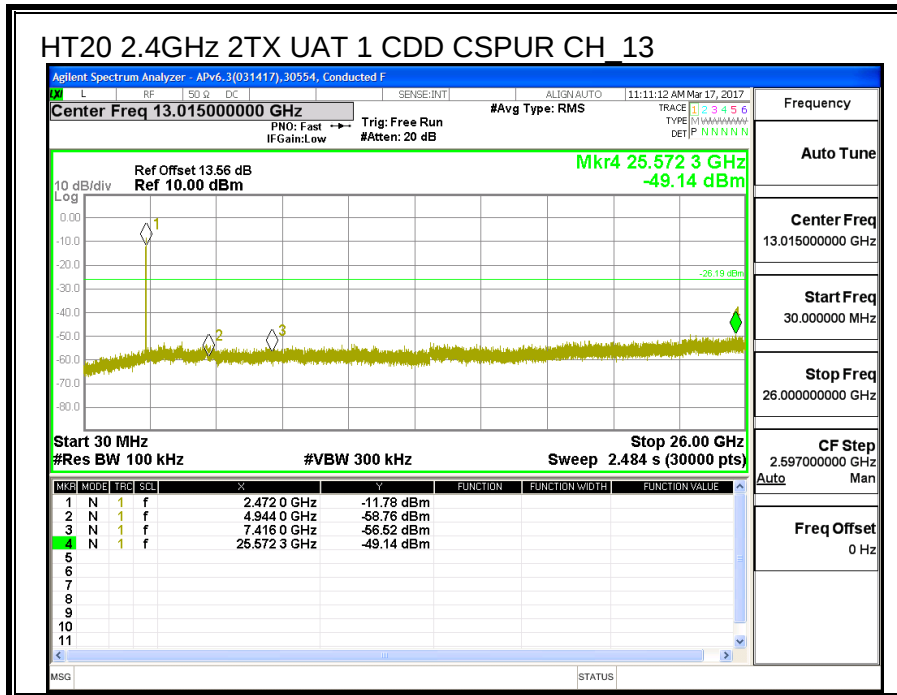












9. RADIATED TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-GEN, Section 8.9 and 8.10.

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

TEST PROCEDURE

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

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

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

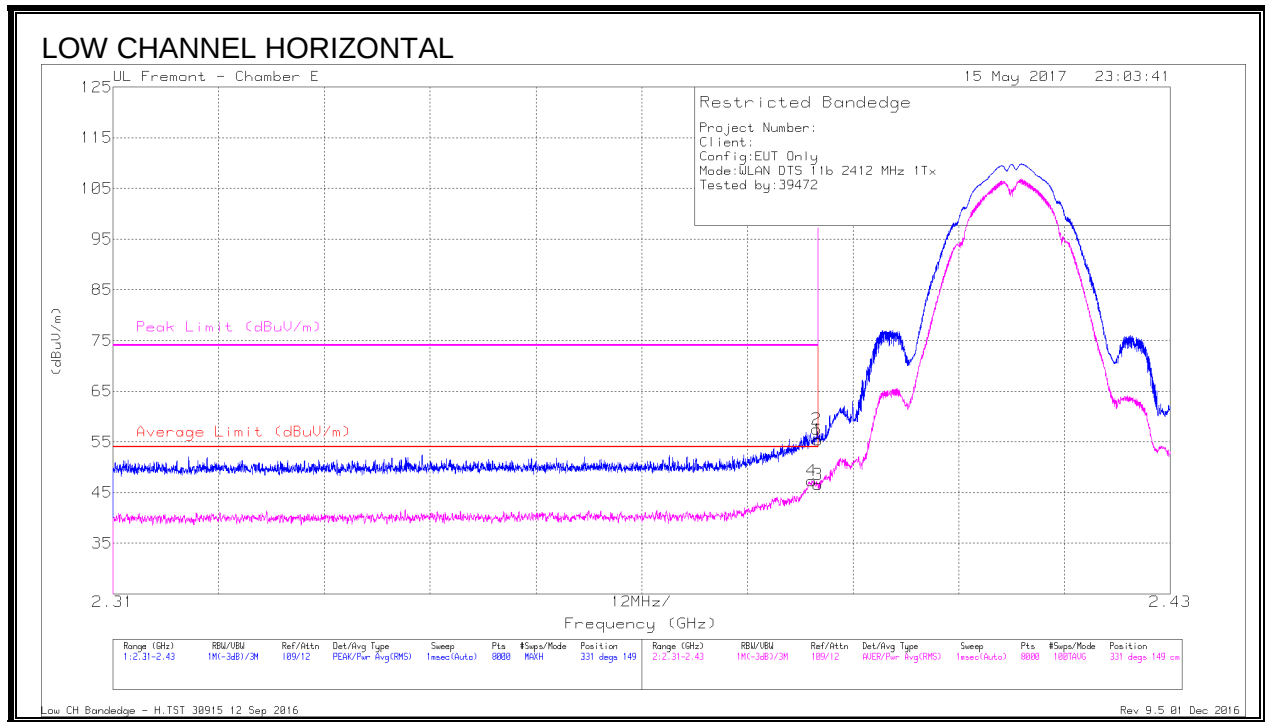
For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

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. 11b UAT 1 SISO MODE IN THE 2.4GHz BAND

AUTHORIZED BANDEDGE (LOW CHANNEL, CH 1)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	* 2.39	42.87	Pk	32.2	-19.7	55.37	-	-	74	-18.63	331	149	H
2	* 2.39	45.02	Pk	32.2	-19.7	57.52	-	-	74	-16.48	331	149	H
3	* 2.39	34.12	RMS	32.2	-19.7	46.62	54	-7.38	-	-	331	149	H
4	* 2.389	34.85	RMS	32.2	-19.7	47.35	54	-6.65	-	-	331	149	H

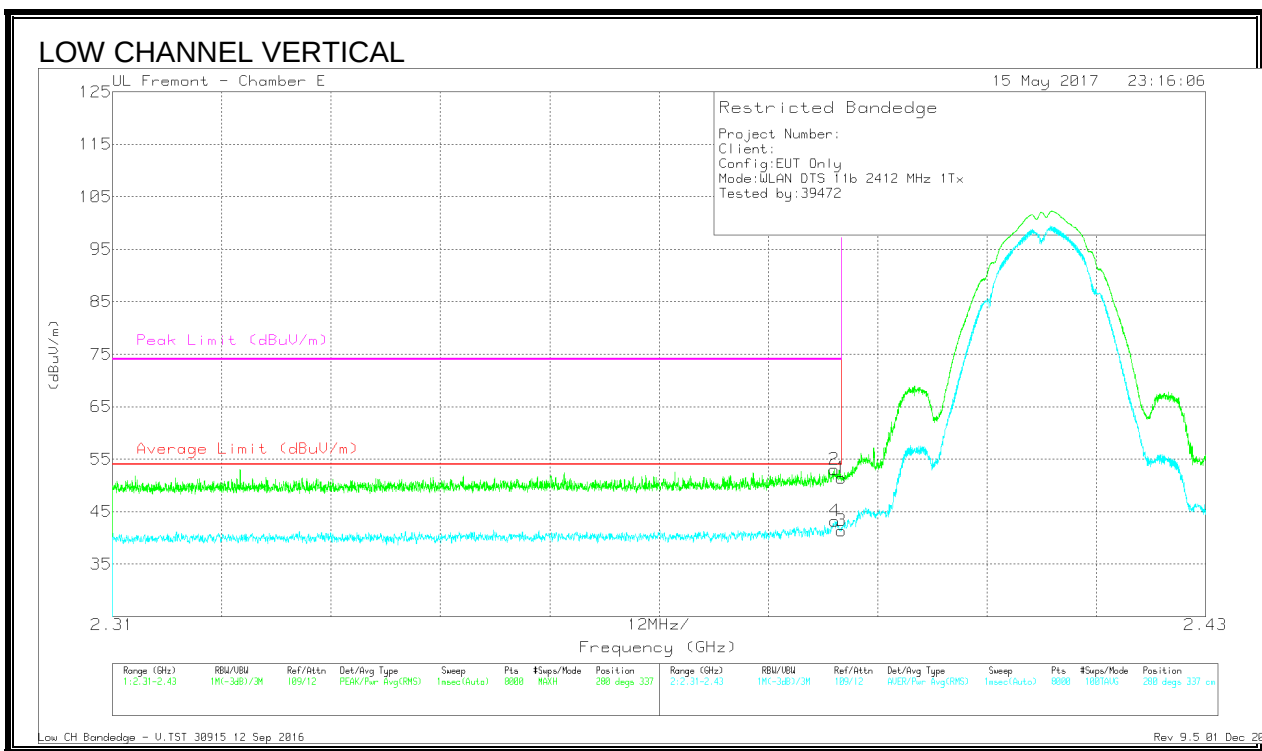
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

Low CH Bandedge - H.TST 30915 12 Sep 2016

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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	38.96	Pk	32.2	-19.7	51.46	-	-	74	-22.54	280	337	V
2	* 2.389	40.51	Pk	32.2	-19.7	53.01	-	-	74	-20.99	280	337	V
3	* 2.39	28.86	RMS	32.2	-19.7	41.36	54	-12.64	-	-	280	337	V
4	* 2.389	30.72	RMS	32.2	-19.7	43.22	54	-10.78	-	-	280	337	V

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

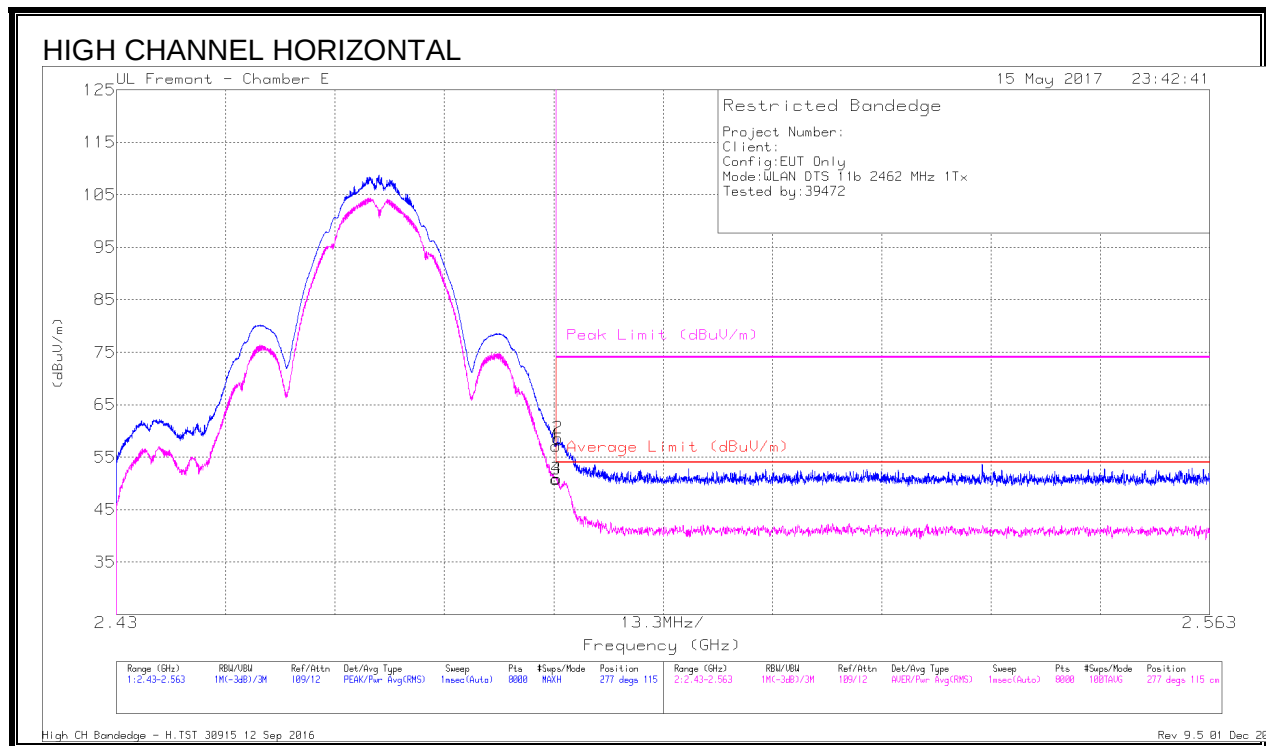
Pk - Peak detector

RMS - RMS detection

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AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 11)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	44.18	Pk	32.7	-19.7	57.18	-	-	74	-16.82	277	115	H
2	* 2.484	45.64	Pk	32.7	-19.7	58.64	-	-	74	-15.36	277	115	H
3	* 2.484	37.75	RMS	32.7	-19.7	50.75	54	-3.25	-	-	277	115	H
4	* 2.484	37.93	RMS	32.7	-19.7	50.93	54	-3.07	-	-	277	115	H

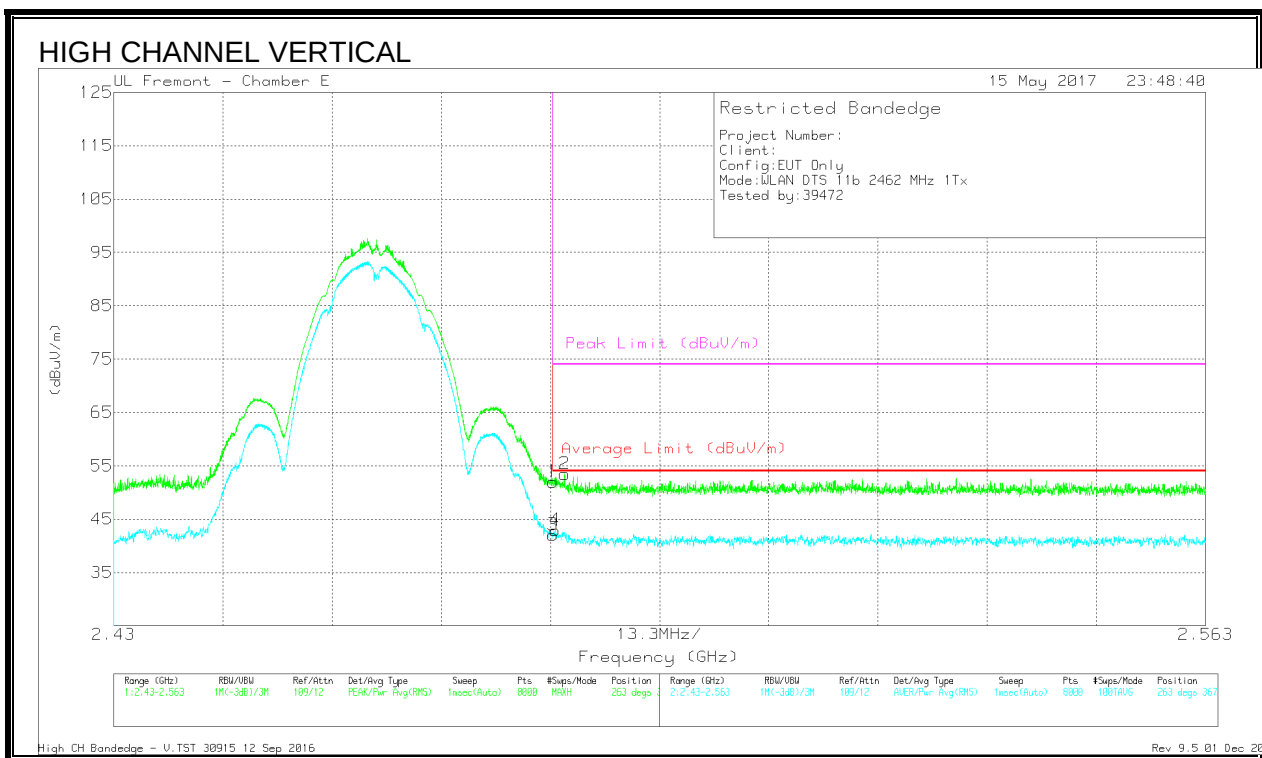
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

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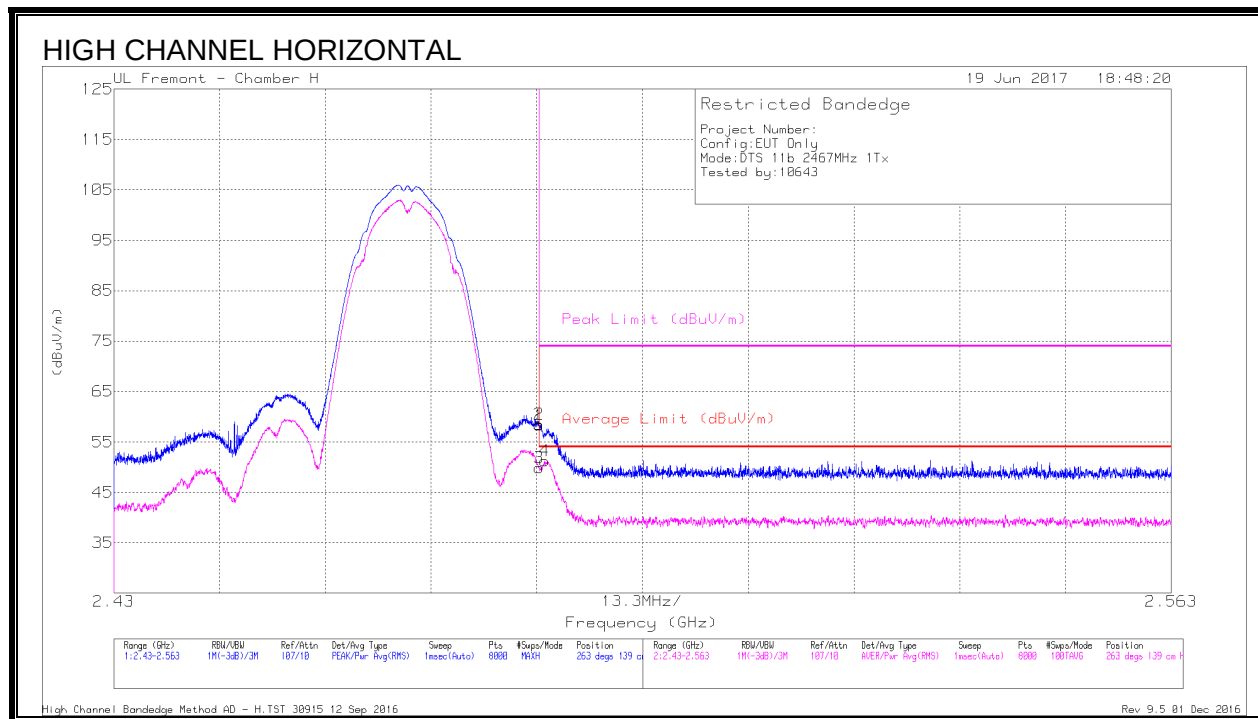


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39	Pk	32.7	-19.7	52	-	-	74	-22	263	367	V
3	* 2.484	29.04	RMS	32.7	-19.7	42.04	54	-11.96	-	-	263	367	V
4	* 2.484	29.89	RMS	32.7	-19.7	42.89	54	-11.11	-	-	263	367	V
2	* 2.485	40.46	Pk	32.7	-19.7	53.46	-	-	74	-20.54	263	367	V

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

Pk - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 12)



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	54.12	Pk	32.4	-28.2	58.32	-	-	74	-15.68	263	139	H
2	* 2.484	54.29	Pk	32.4	-28.2	58.49	-	-	74	-15.51	263	139	H
3	* 2.484	45.71	RMS	32.4	-28.2	49.91	54	-4.09	-	-	263	139	H
4	* 2.484	47.02	RMS	32.4	-28.2	51.22	54	-2.78	-	-	263	139	H

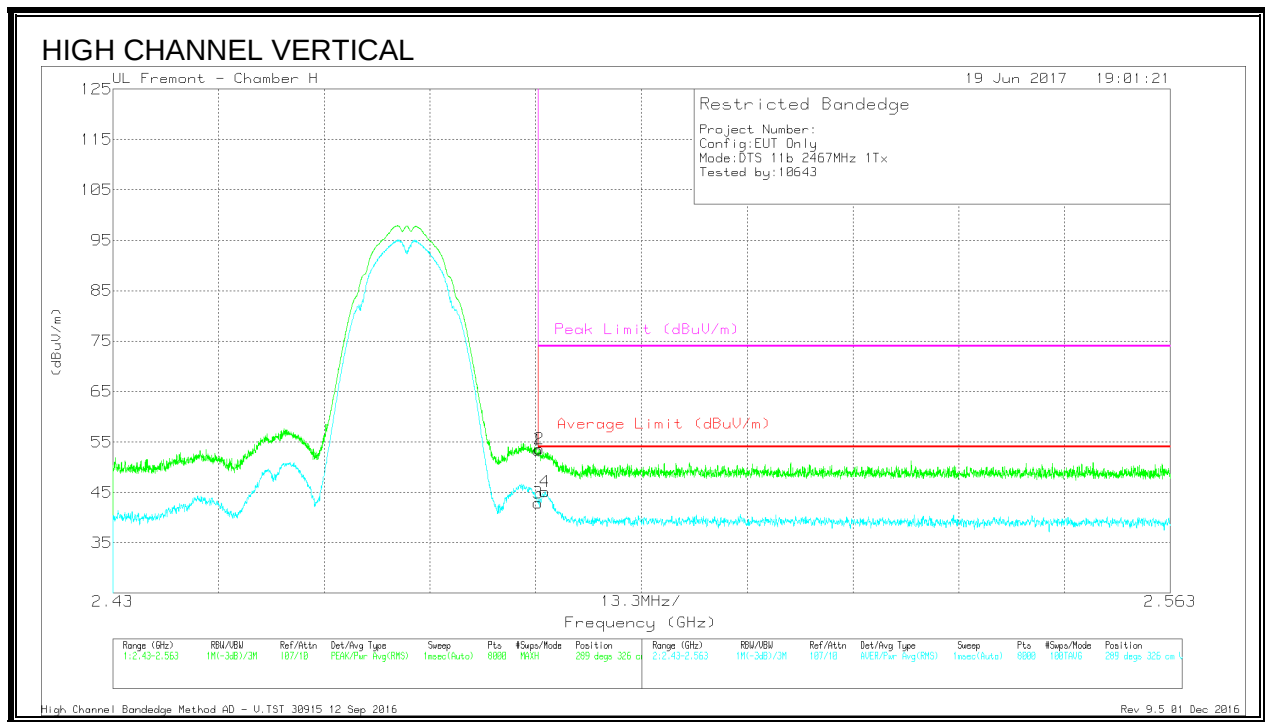
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

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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	49.24	Pk	32.4	-28.2	53.44	-	-	74	-20.56	289	326	V
2	* 2.484	49.4	Pk	32.4	-28.2	53.6	-	-	74	-20.4	289	326	V
3	* 2.484	38.7	RMS	32.4	-28.2	42.9	54	-11.1	-	-	289	326	V
4	* 2.484	40.99	RMS	32.4	-28.2	45.19	54	-8.81	-	-	289	326	V

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

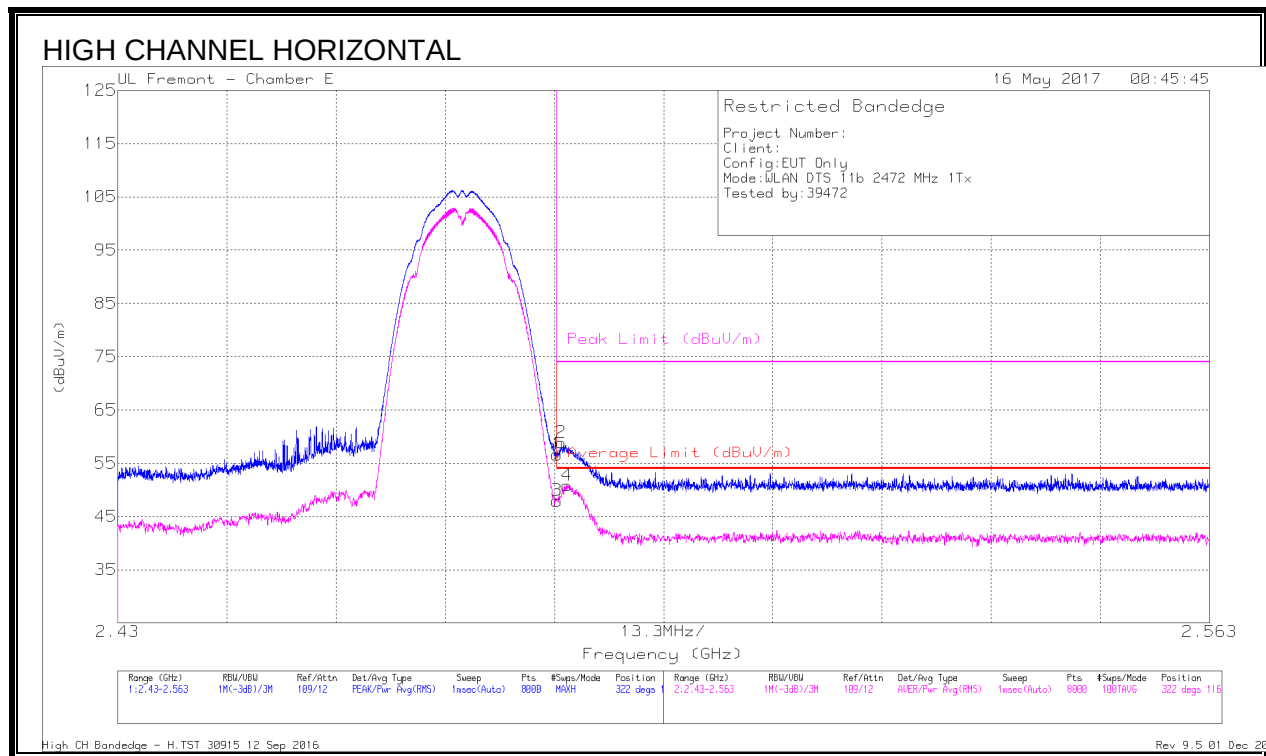
Pk - Peak detector

RMS - RMS detection

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AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 13)



Marker	Frequ ncy (GHz)	Meter Readin g (dBuV)	Det	AF T136 (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)	Azimut h (Degs)	Height (cm)	Polarity
1	* 2.484	43.64	Pk	32.7	-19.7	56.64	-	-	74	-17.36	322	116	H
2	* 2.484	45.86	Pk	32.7	-19.7	58.86	-	-	74	-15.14	322	116	H
3	* 2.484	34.96	RMS	32.7	-19.7	47.96	54	-6.04	-	-	322	116	H
4	* 2.485	37.79	RMS	32.7	-19.7	50.79	54	-3.21	-	-	322	116	H

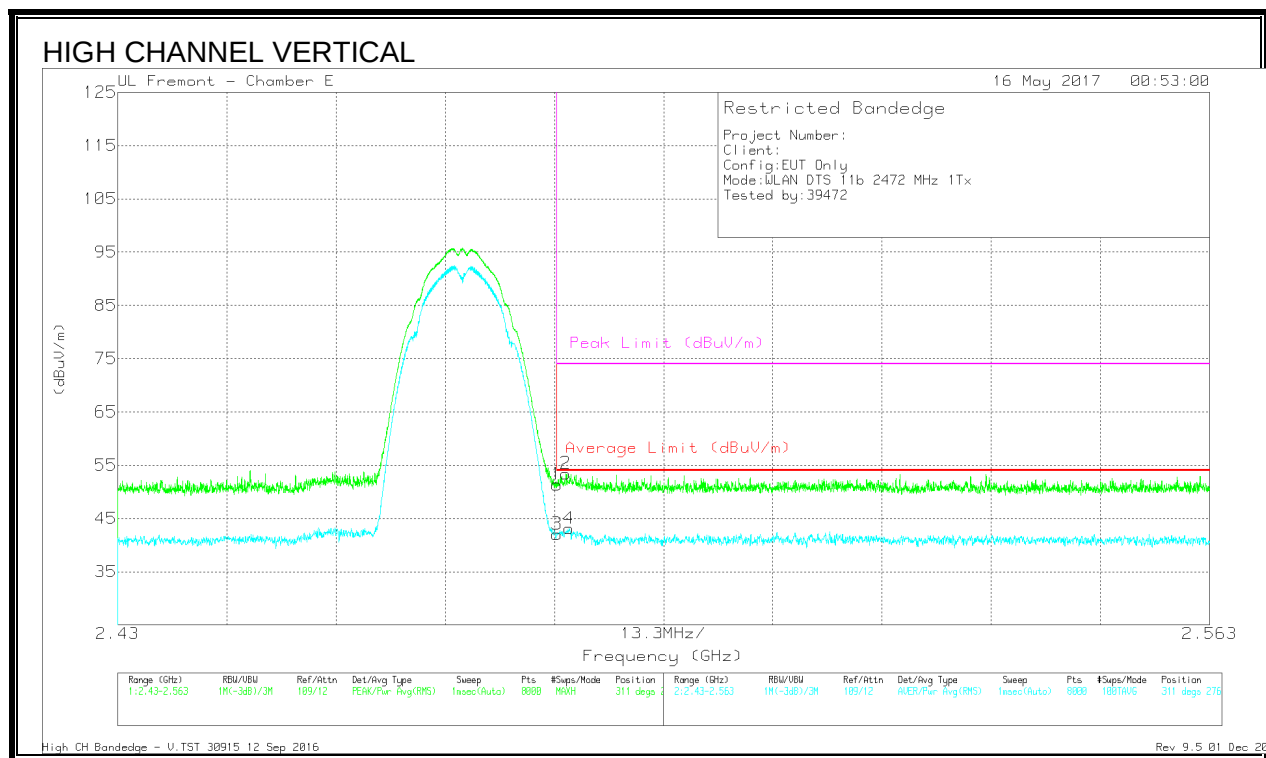
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

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Marker	Frequ ncy (GHz)	Meter Readin g (dBuV)	Det	AF T136 (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	38.37	Pk	32.7	-19.7	51.37	-	-	74	-22.63	311	276	V
2	* 2.485	40.41	Pk	32.7	-19.7	53.41	-	-	74	-20.59	311	276	V
3	* 2.484	29.05	RMS	32.7	-19.7	42.05	54	-11.95	-	-	311	276	V
4	* 2.485	30.1	RMS	32.7	-19.7	43.1	54	-10.9	-	-	311	276	V

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

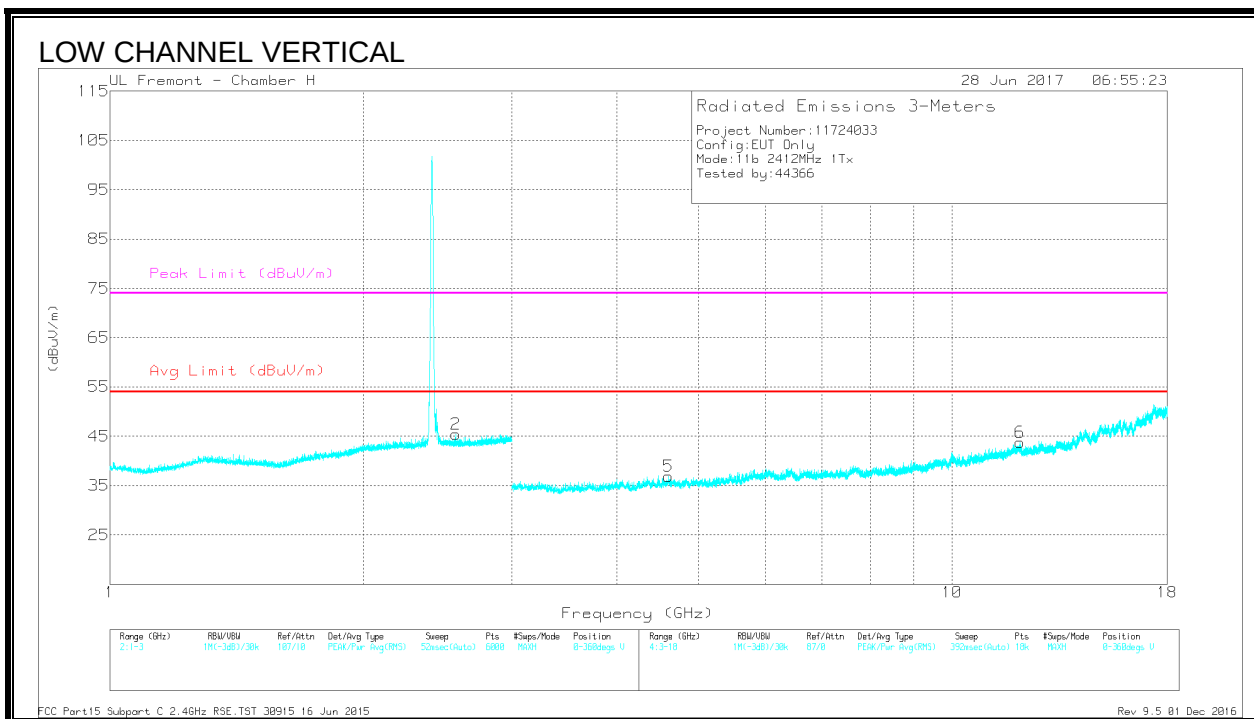
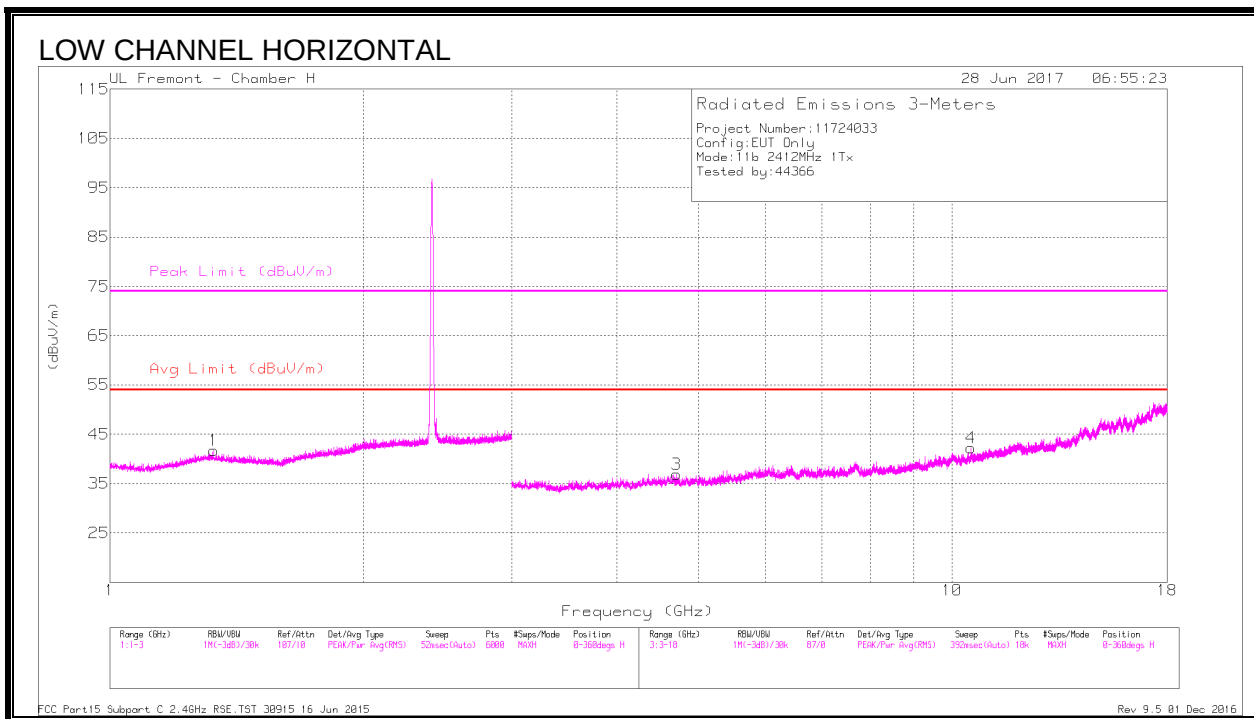
Pk - Peak detector

RMS - RMS detection

High CH Bandedge - V.TST 30915 12 Sep 2016

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HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL, CH 1)



DATA

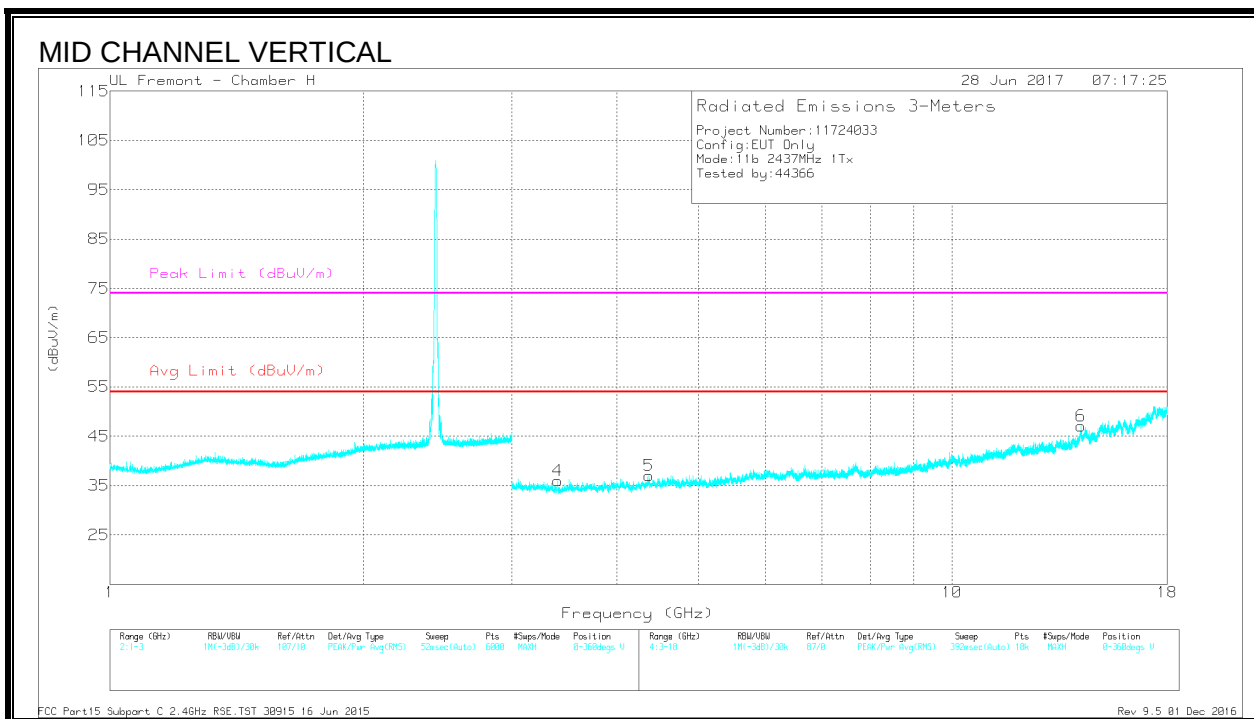
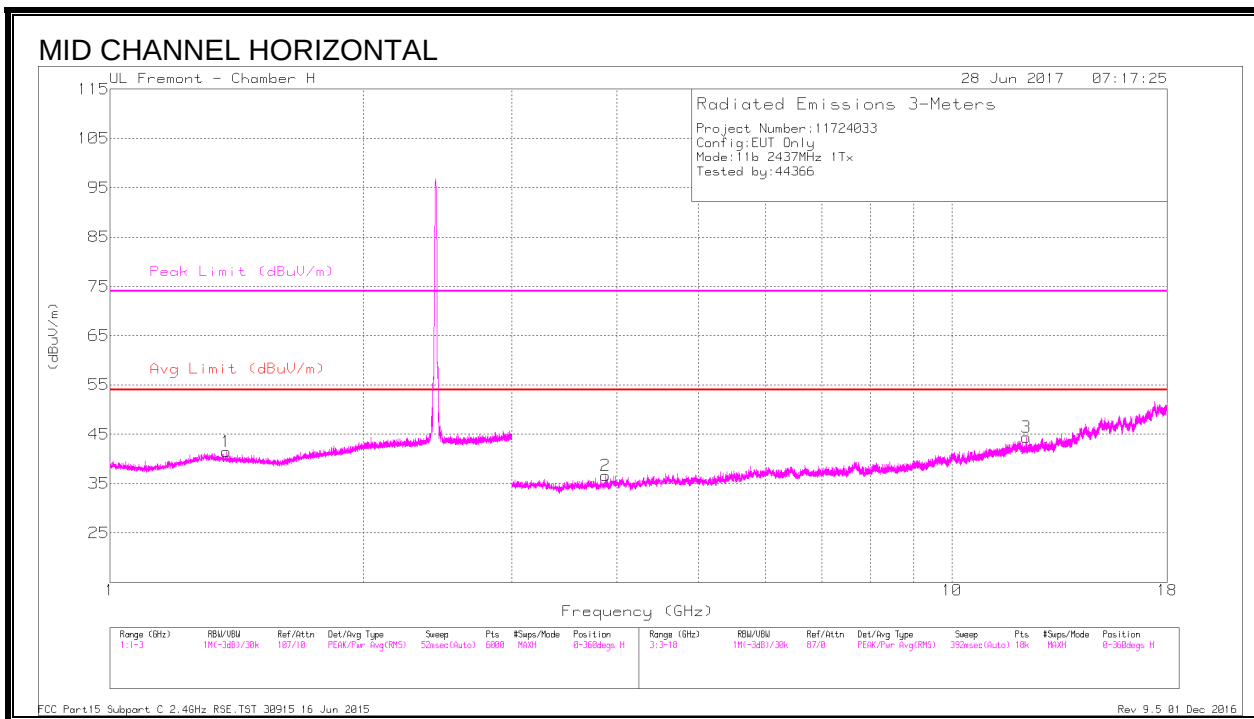
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.329	46.78	PK2	29.1	-27.5	48.38	-	-	74	-25.62	259	164	H
	* 1.327	34.84	MAv1	29.1	-27.5	36.44	54	-17.56	-	-	259	164	H
3	* 4.705	43.38	PK2	34.1	-33.8	43.68	-	-	74	-30.32	208	126	H
	* 4.707	31.67	MAv1	34.1	-33.8	31.97	54	-22.03	-	-	208	126	H
5	* 4.604	43.83	PK2	34.3	-34.2	43.93	-	-	74	-30.07	266	363	V
	* 4.605	32.43	MAv1	34.3	-34.2	32.53	54	-21.47	-	-	266	363	V
6	* 12.034	36.81	PK2	39.3	-25.9	50.21	-	-	74	-23.79	28	185	V
	* 12.034	25.75	MAv1	39.3	-25.9	39.15	54	-14.85	-	-	28	185	V
2	2.575	47.09	PK2	32.2	-28.2	51.09	-	-	-	-	356	112	V
4	10.524	37.9	PK2	37.8	-27.7	48	-	-	-	-	104	385	H

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL, CH 6)



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT344 (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	* 1.376	46.61	PK2	28.9	-27.5	48.01	-	-	74	-25.99	263	381	H
	* 1.373	34.88	MAv1	28.9	-27.5	36.28	54	-17.72	-	-	263	381	H
2	* 3.881	44.65	PK2	33.4	-34.7	43.35	-	-	74	-30.65	99	241	H
	* 3.881	32.85	MAv1	33.4	-34.7	31.55	54	-22.45	-	-	99	241	H
3	* 12.245	37.56	PK2	38.7	-25.9	50.36	-	-	74	-23.64	344	300	H
	* 12.247	25.84	MAv1	38.7	-25.9	38.64	54	-15.36	-	-	344	300	H
5	* 4.365	43.42	PK2	33.9	-34.1	43.22	-	-	74	-30.78	185	338	V
	* 4.364	32.37	MAv1	33.9	-34.1	32.17	54	-21.83	-	-	185	338	V
4	3.405	45.24	PK2	32.7	-35.8	42.14	-	-	-	-	128	160	V
6	14.208	37.6	PK2	40.7	-24.9	53.4	-	-	-	-	13	226	V

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

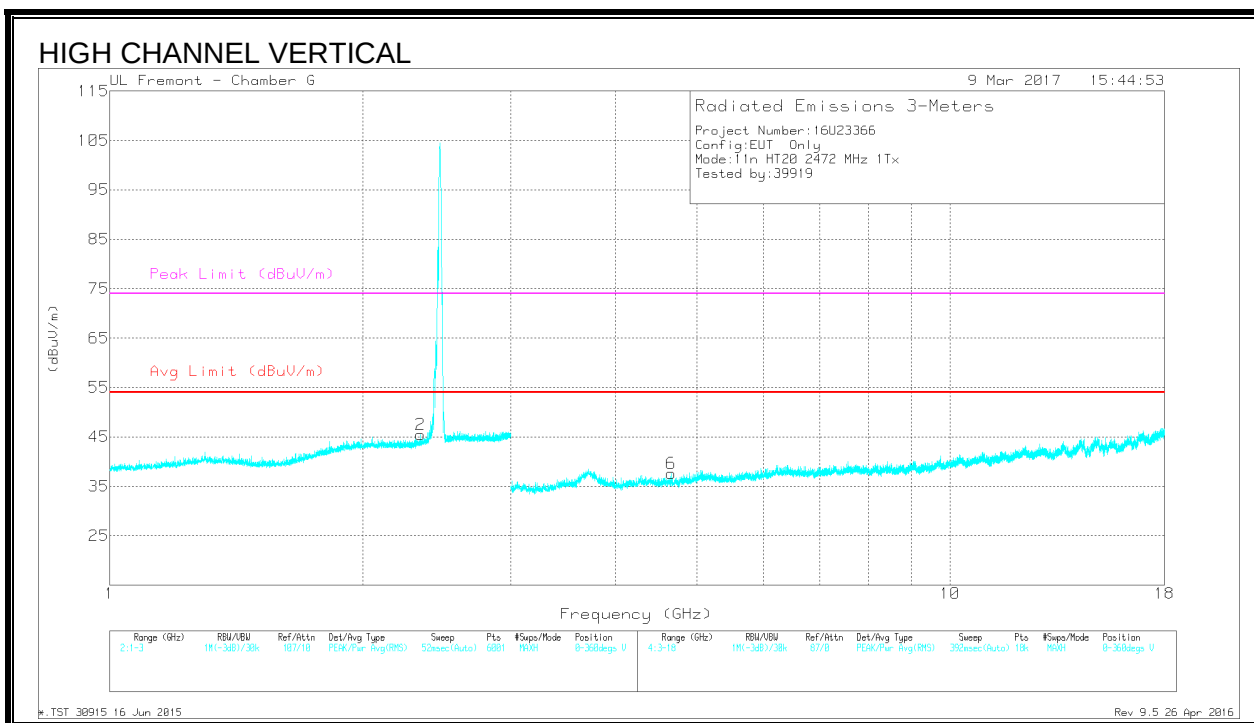
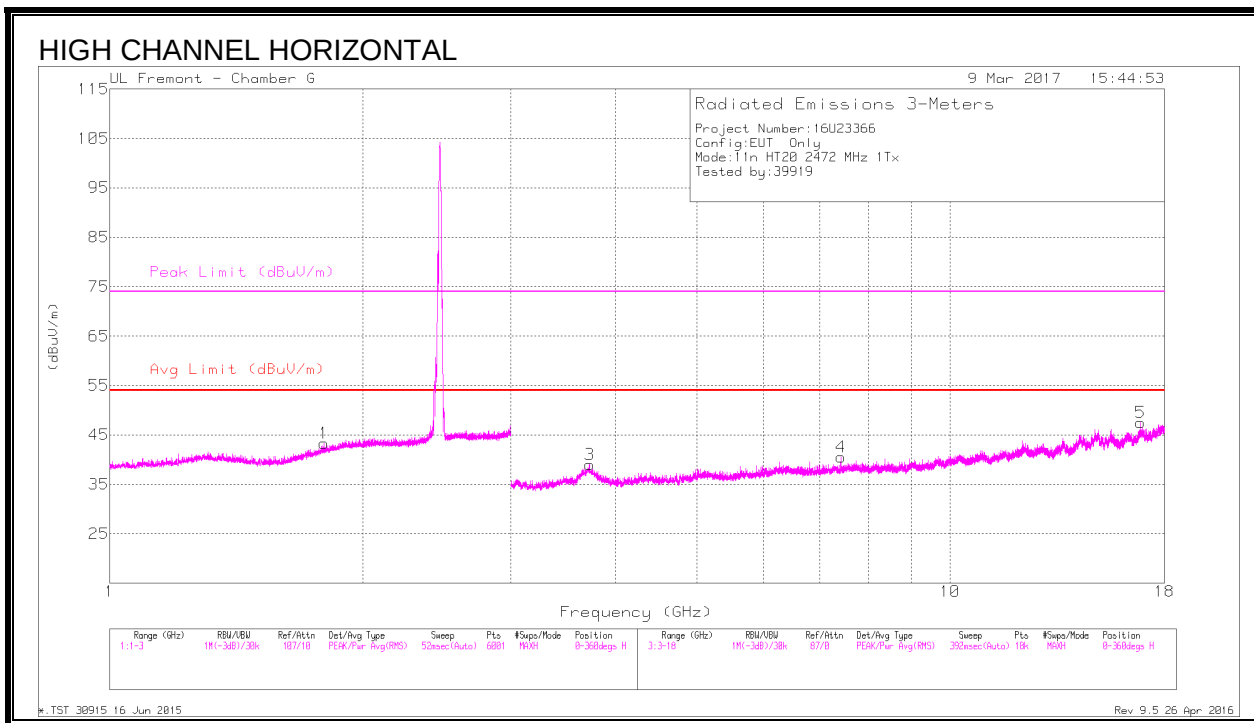
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

* TST 30915 16 Jun 2015

Rev 9.5 26 Apr 2016

HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL, CH 13)



DATA

Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.341	43.58	PK2	31.8	-23.8	51.58	-	-	74	-22.42	234	172	V
	* 2.342	32.7	MAv1	31.8	-23.8	40.7	54	-13.3	-	-	234	172	V
3	* 7.414	40.66	PK2	35.8	-30.4	46.06	-	-	74	-27.94	93	188	H
	* 7.416	32.39	MAv1	35.8	-30.4	37.79	54	-16.21	-	-	93	188	H
4	* 3.73	40.29	PK2	34.2	-30.8	43.69	-	-	74	-30.31	250	193	H
	* 3.726	29.6	MAv1	34.2	-30.7	33.1	54	-20.9	-	-	250	193	H
6	* 4.66	40.64	PK2	34.4	-31.7	43.34	-	-	74	-30.66	102	181	V
	* 4.661	30.29	MAv1	34.4	-31.7	32.99	54	-21.01	-	-	102	181	V
1	1.8	42.91	PK2	30.4	-24.3	49.01	-	-	-	-	161	134	H
5	16.871	35.48	PK2	42.1	-25.1	52.48	-	-	-	-	172	101	H

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

PK2 - KDB558074 Method: Maximum Peak

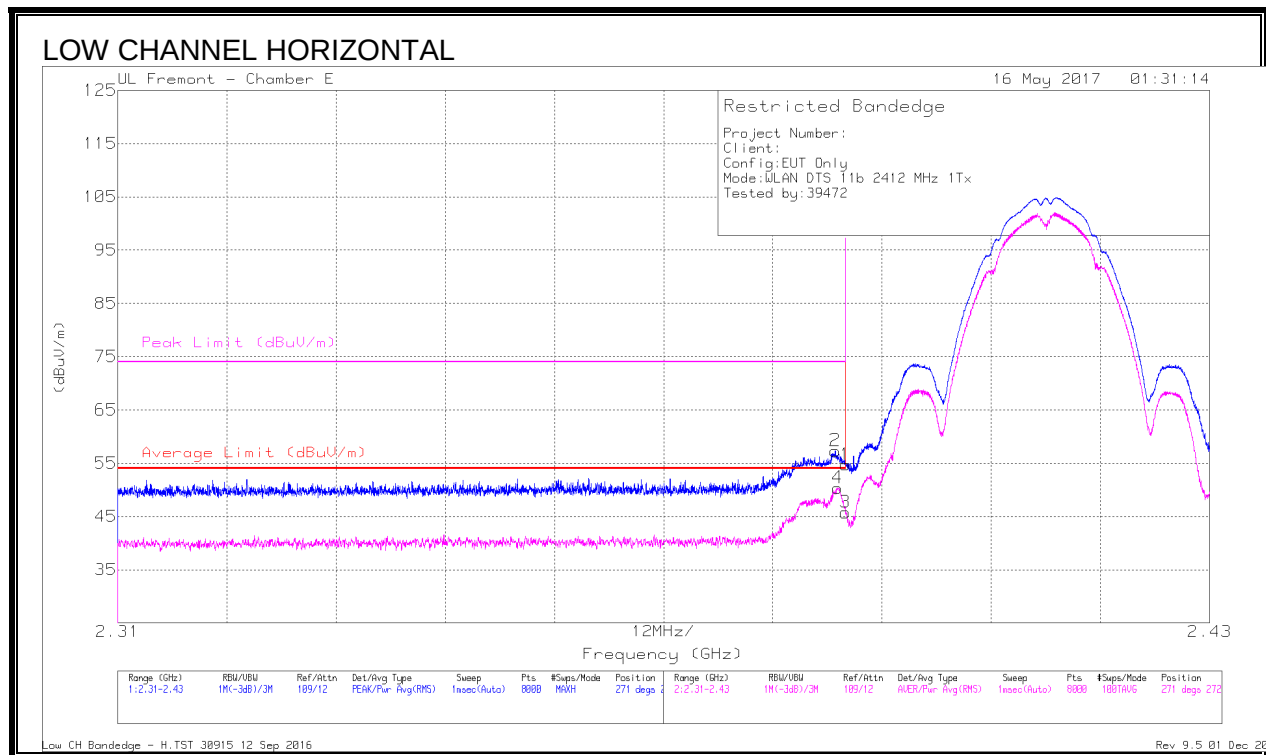
MAv1 - KDB558074 Option 1 Maximum RMS Average

*.TST 30915 16 Jun 2015

Rev 9.5 26 Apr 2016

9.2.2. 11b LAT 3 SISO MODE IN THE 2.4GHz BAND

AUTHORIZED BANDEDGE (LOW CHANNEL, CH 1)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT136 (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	42.22	Pk	32.2	-19.7	54.72	-	-	74	-19.28	271	272	H
2	* 2.389	44.84	Pk	32.2	-19.7	57.34	-	-	74	-16.66	271	272	H
3	* 2.39	33.27	RMS	32.2	-19.7	45.77	54	-8.23	-	-	271	272	H
4	* 2.389	37.84	RMS	32.2	-19.7	50.34	54	-3.66	-	-	271	272	H

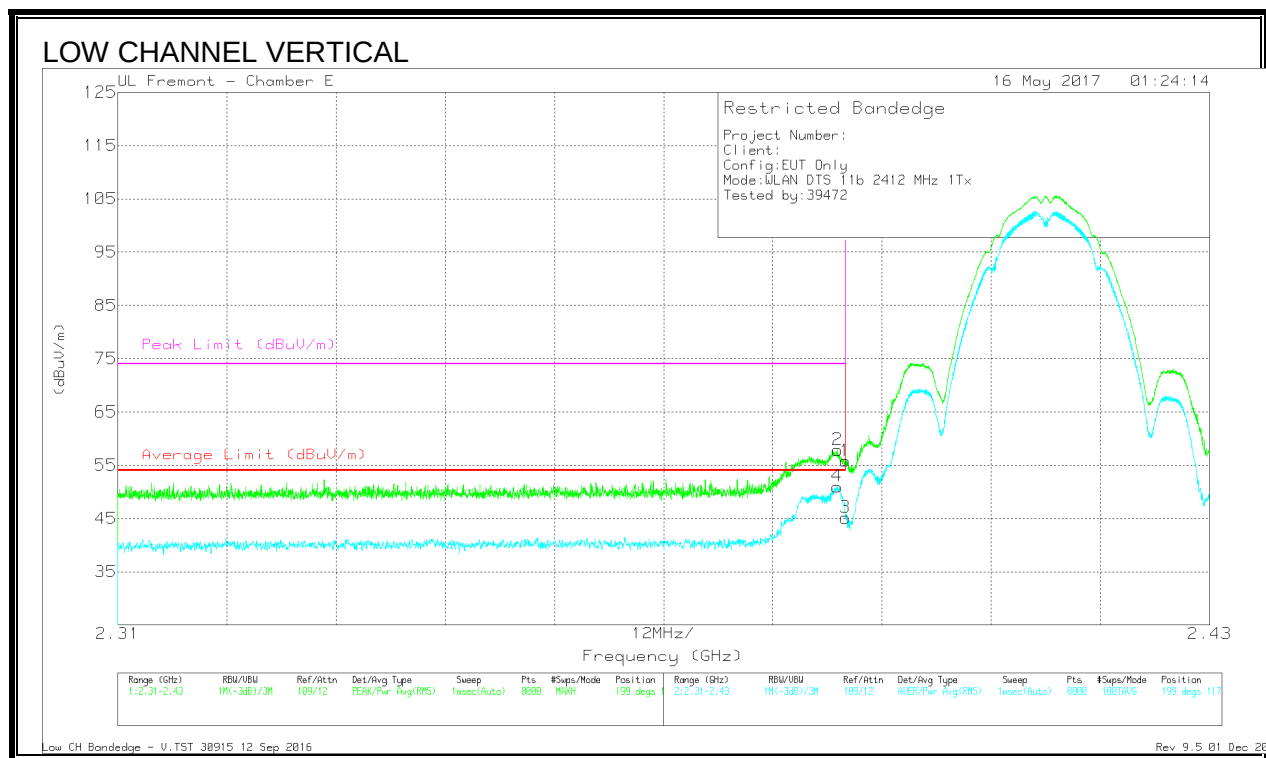
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

Low CH Bandedge - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	43.3	Pk	32.2	-19.7	55.8	-	-	74	-18.2	199	117	V
2	* 2.389	45.35	Pk	32.2	-19.7	57.85	-	-	74	-16.15	199	117	V
3	* 2.39	32.65	RMS	32.2	-19.7	45.15	54	-8.85	-	-	199	117	V
4	* 2.389	38.5	RMS	32.2	-19.7	51	54	-3	-	-	199	117	V

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

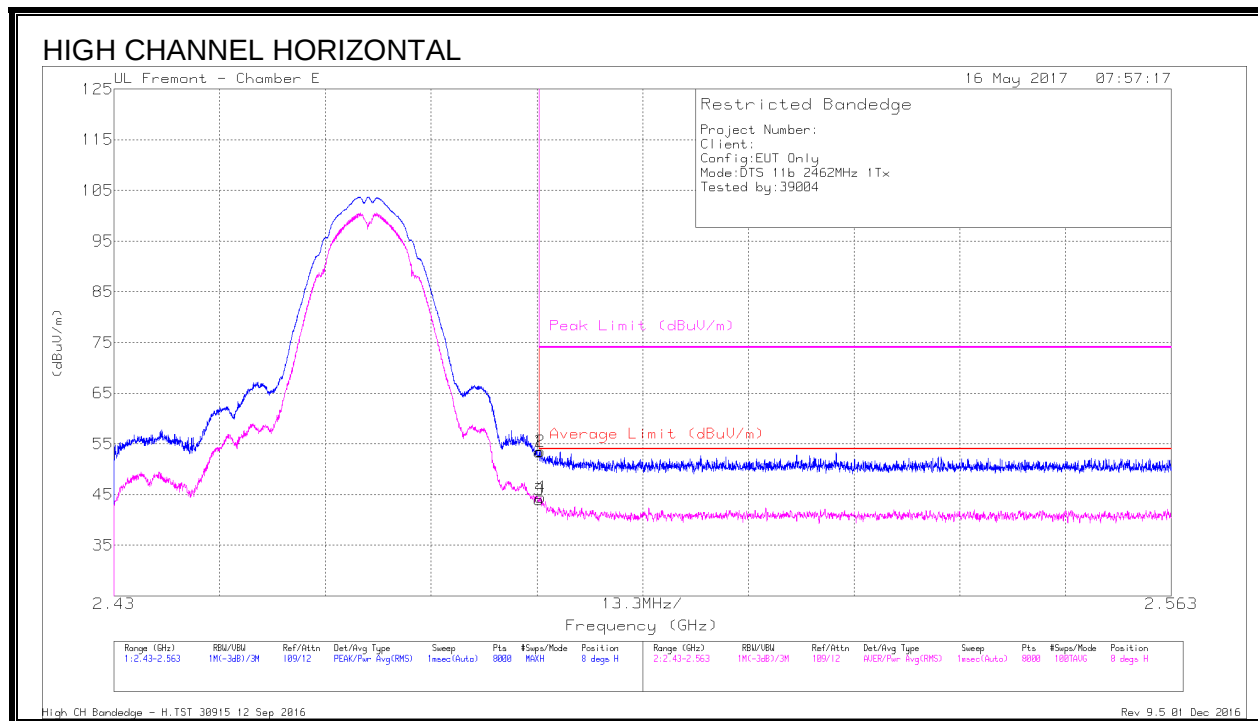
Pk - Peak detector

RMS - RMS detection

Low CH Bandedge - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 11)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	40.45	Pk	32.7	-19.7	53.45	-	-	74	-20.55	8	193	H
2	* 2.484	40.52	Pk	32.7	-19.7	53.52	-	-	74	-20.48	8	193	H
3	* 2.484	30.99	RMS	32.7	-19.7	43.99	54	-10.01	-	-	8	193	H
4	* 2.484	31.41	RMS	32.7	-19.7	44.41	54	-9.59	-	-	8	193	H

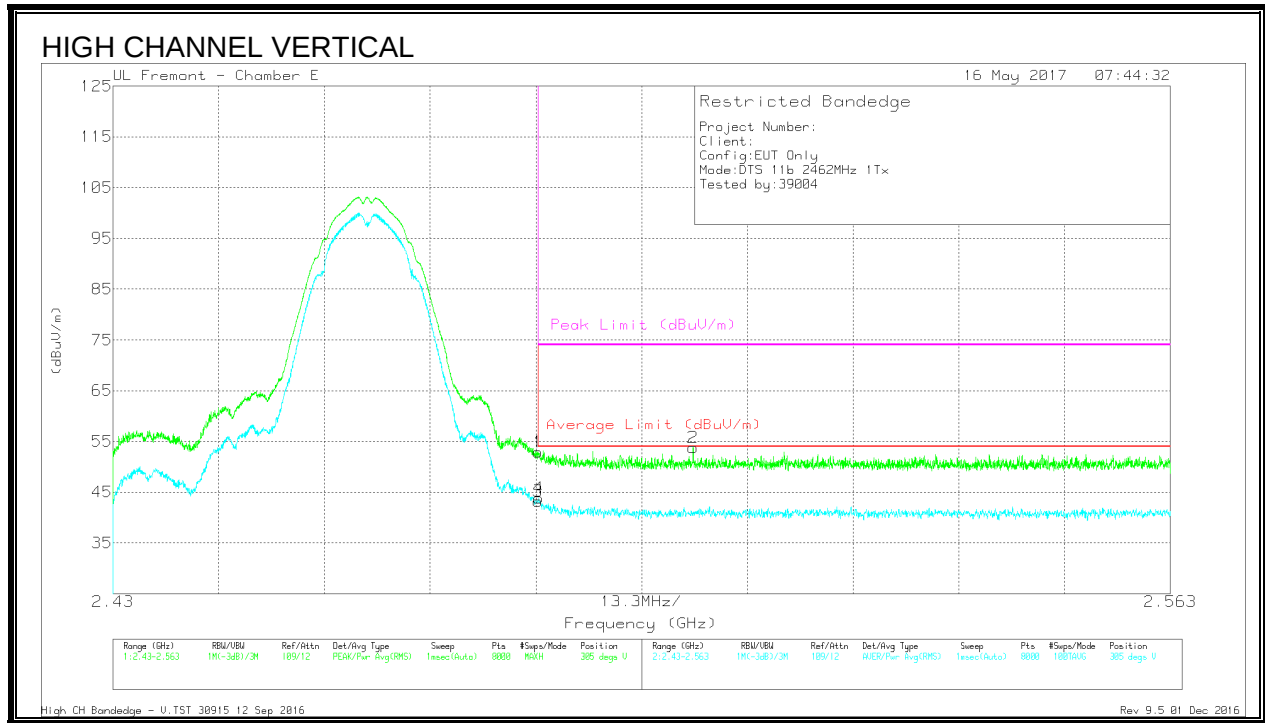
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

High CH Bandedge - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	39.93	Pk	32.7	-19.7	52.93	-	-	74	-21.07	305	101	V
3	* 2.484	30.17	RMS	32.7	-19.7	43.17	54	-10.83	-	-	305	101	V
4	* 2.484	30.82	RMS	32.7	-19.7	43.82	54	-10.18	-	-	305	101	V
2	2.503	40.99	Pk	32.7	-19.9	53.79	-	-	74	-20.21	305	101	V

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

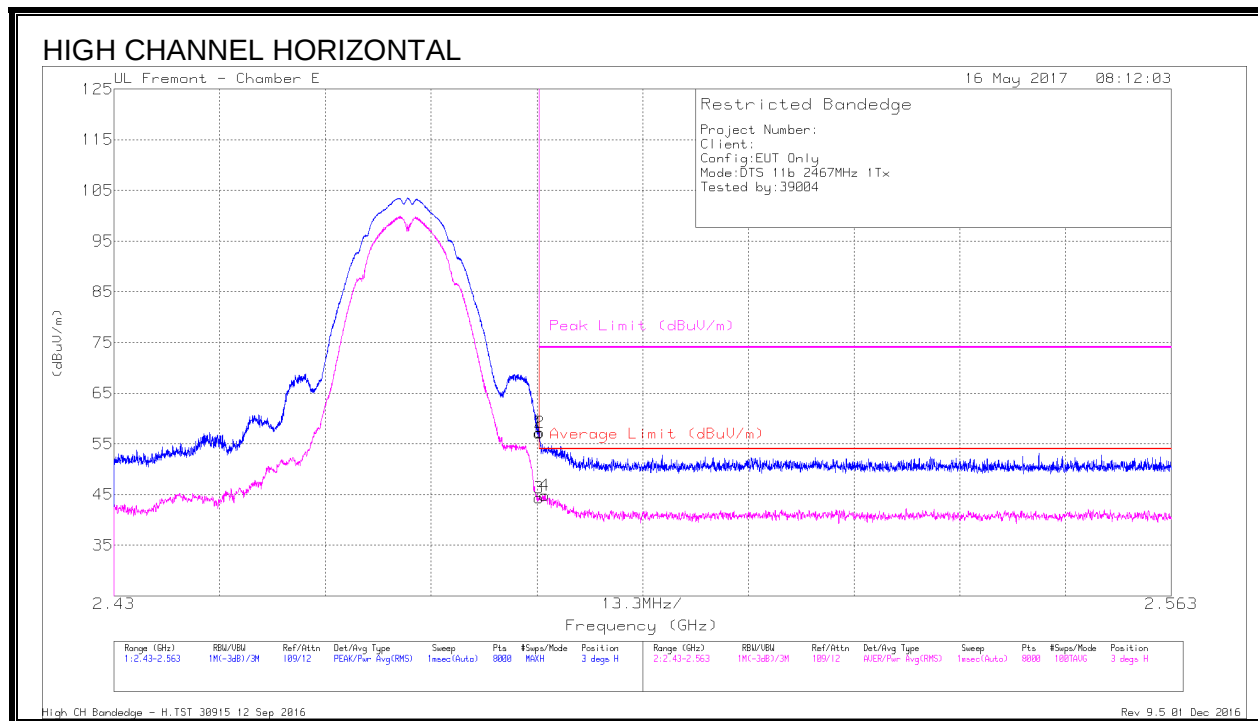
Pk - Peak detector

RMS - RMS detection

High CH Bandedge - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 12)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	44.13	Pk	32.7	-19.7	57.13	-	-	74	-16.87	3	210	H
2	* 2.484	44.2	Pk	32.7	-19.7	57.2	-	-	74	-16.8	3	210	H
3	* 2.484	31.33	RMS	32.7	-19.7	44.33	54	-9.67	-	-	3	210	H
4	* 2.484	31.84	RMS	32.7	-19.7	44.84	54	-9.16	-	-	3	210	H

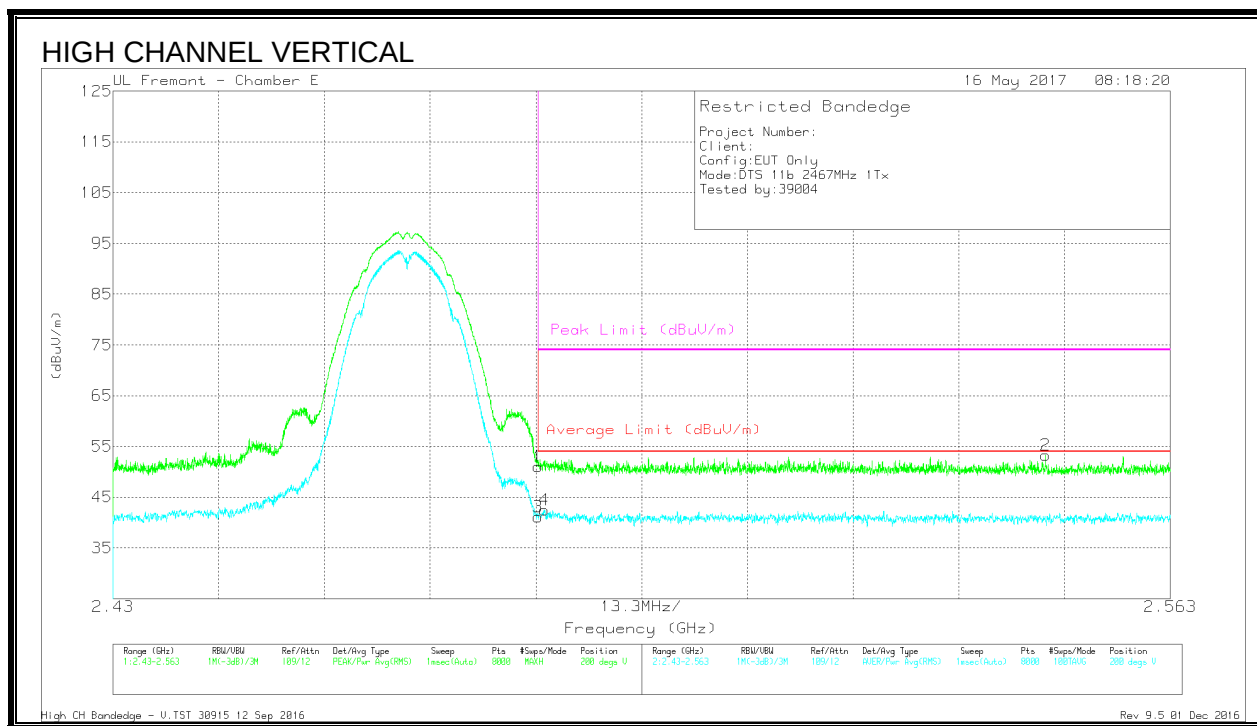
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

High CH Bandedge - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016



Marker	Frequ ncy (GHz)	Meter Readin g (dBuV)	Det	AF T136 (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)	Azimet h (Degs)	Height (cm)	Polarit y
1	* 2.484	38	Pk	32.7	-19.7	51	-	-	74	-23	200	213	V
3	* 2.484	28.08	RMS	32.7	-19.7	41.08	54	-12.92	-	-	200	213	V
4	* 2.484	29.48	RMS	32.7	-19.7	42.48	54	-11.52	-	-	200	213	V
2	2.547	40.57	Pk	32.6	-19.9	53.27	-	-	74	-20.73	200	213	V

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

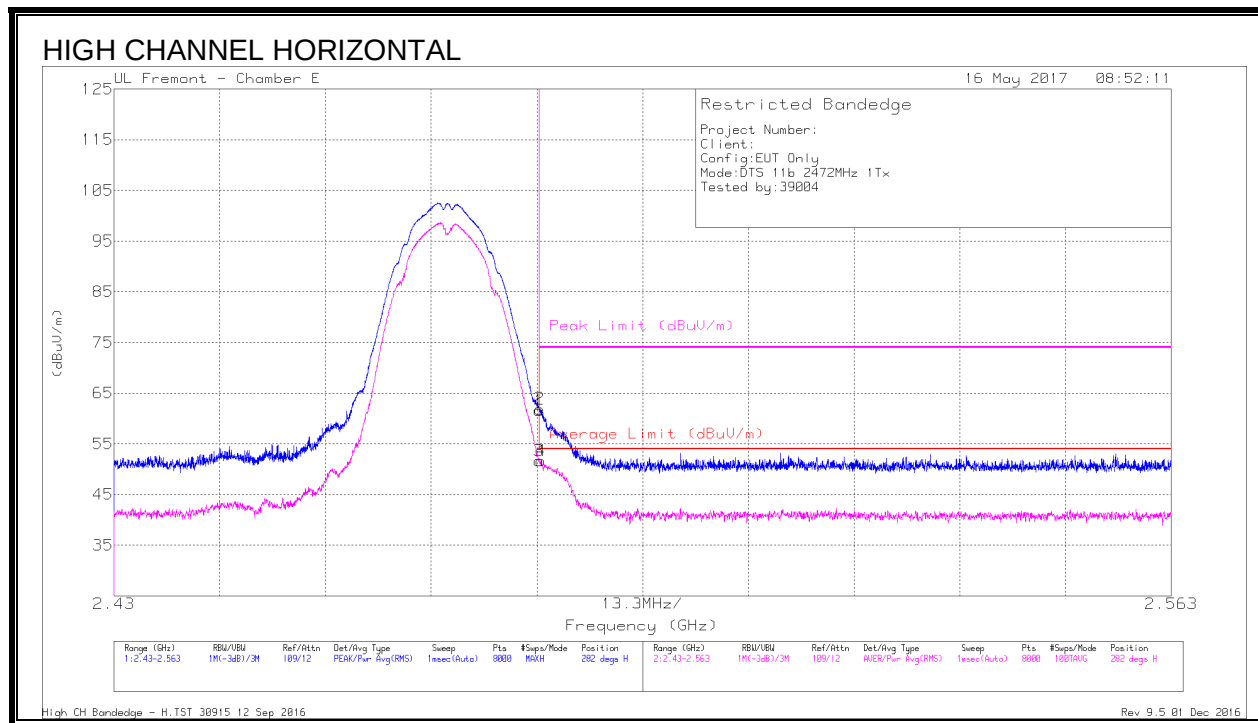
Pk - Peak detector

RMS - RMS detection

High CH Bandedge - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 13)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	48.63	Pk	32.7	-19.7	61.63	-	-	74	-12.37	282	101	H
2	* 2.484	48.9	Pk	32.7	-19.7	61.9	-	-	74	-12.1	282	101	H
3	* 2.484	38.67	RMS	32.7	-19.7	51.67	54	-2.33	-	-	282	101	H
4	* 2.484	38.67	RMS	32.7	-19.7	51.67	54	-2.33	-	-	282	101	H

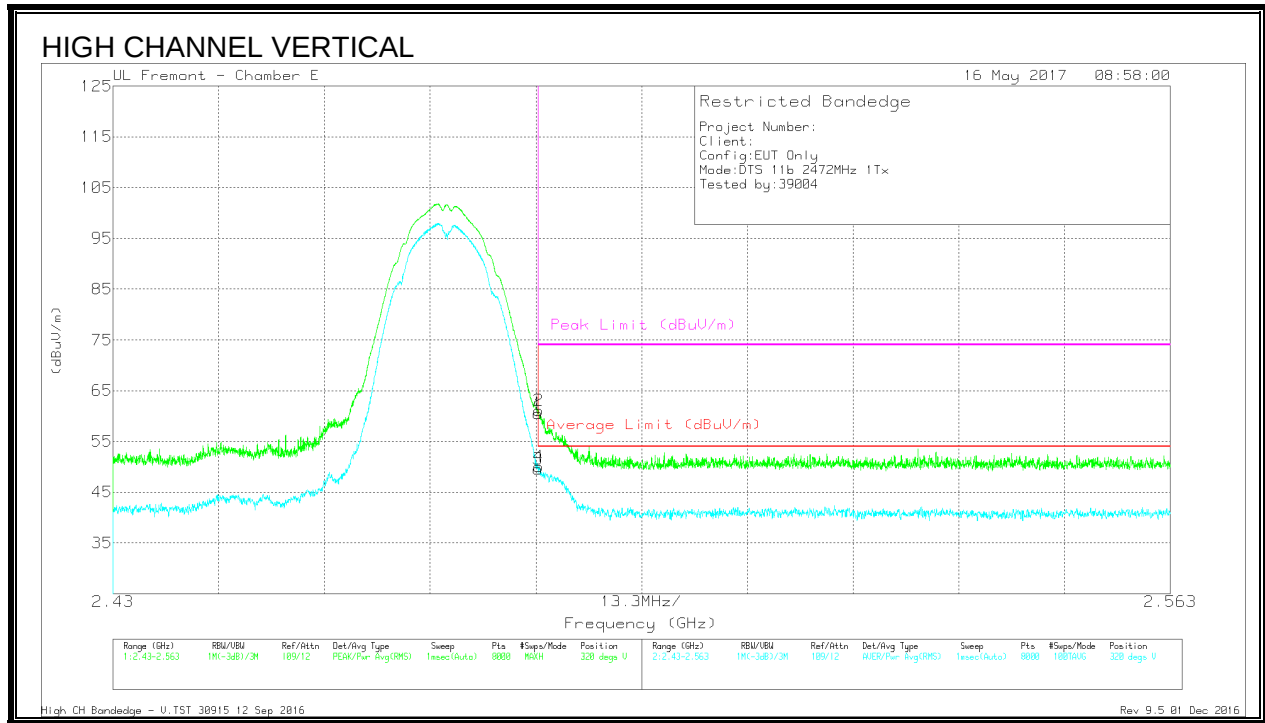
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

High CH Bandedge - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	47.45	Pk	32.7	-19.7	60.45	-	-	74	-13.55	320	207	V
2	* 2.484	48.12	Pk	32.7	-19.7	61.12	-	-	74	-12.88	320	207	V
3	* 2.484	36.52	RMS	32.7	-19.7	49.52	54	-4.48	-	-	320	207	V
4	* 2.484	37.02	RMS	32.7	-19.7	50.02	54	-3.98	-	-	320	207	V

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

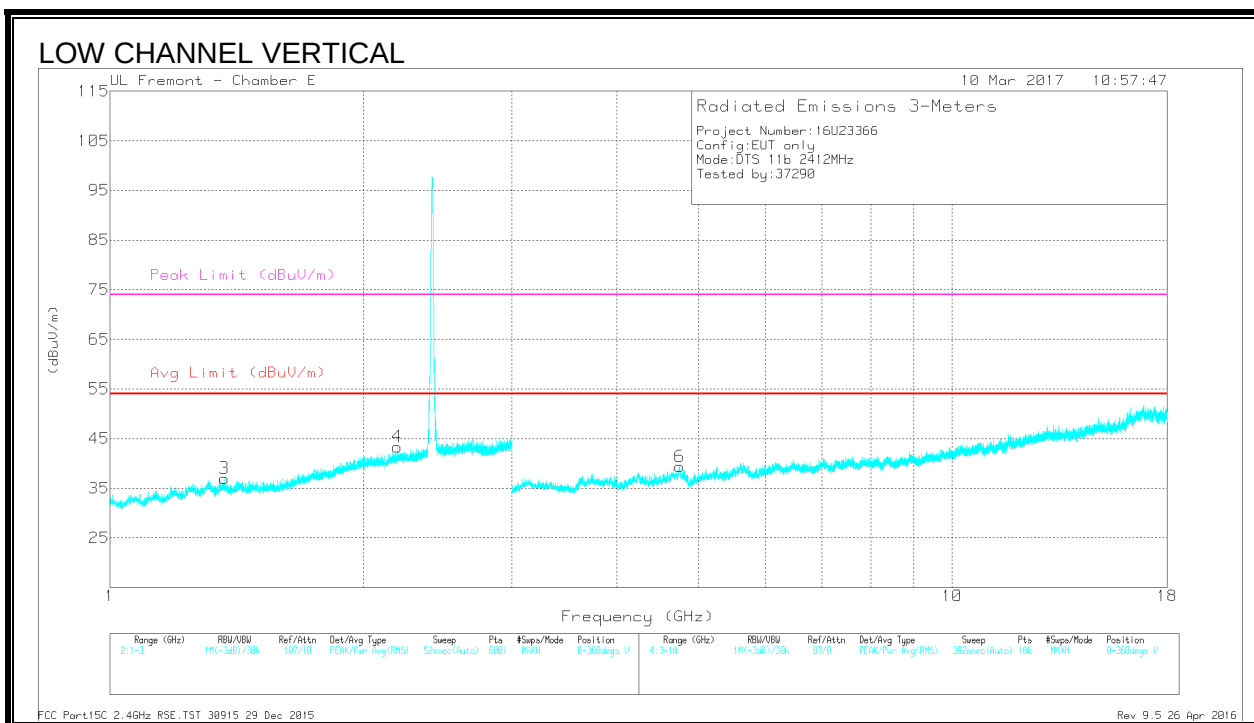
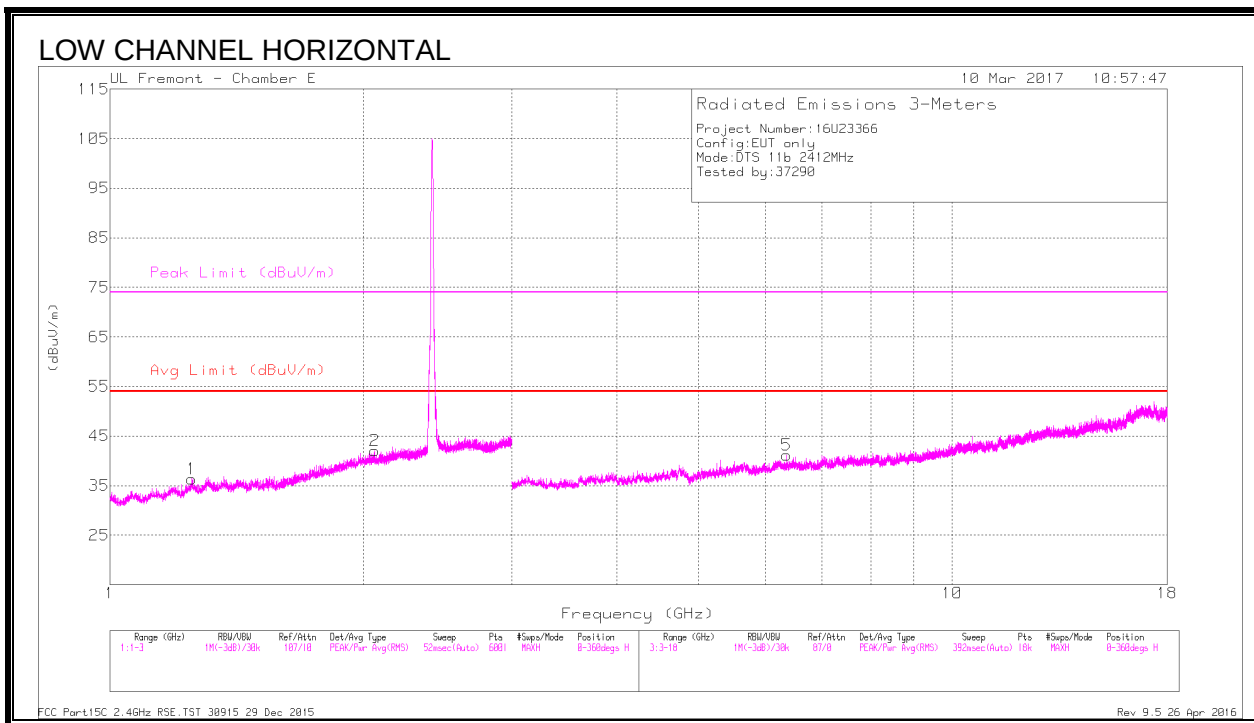
Pk - Peak detector

RMS - RMS detection

High CH Bandedge - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL, CH 1)



DATA

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.251	37.14	PK2	28.5	-21.9	43.74	-	-	74	-30.26	0	100	H
* 1.251	23.31	MAv1	28.5	-21.8	30.01	54	-23.99	-	-	0	100	H
* 1.369	37.75	PK2	28.7	-21.6	44.85	-	-	74	-29.15	0	200	V
* 1.368	23.1	MAv1	28.7	-21.6	30.2	54	-23.8	-	-	0	200	V
2.062	37.38	PK2	31.4	-20.3	48.48	-	-	-	-	0	100	H
2.193	37.7	PK2	31.6	-19.7	49.6	-	-	-	-	0	101	V
6.36	39.62	PK2	35.6	-29	46.22	-	-	-	-	0	200	H

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

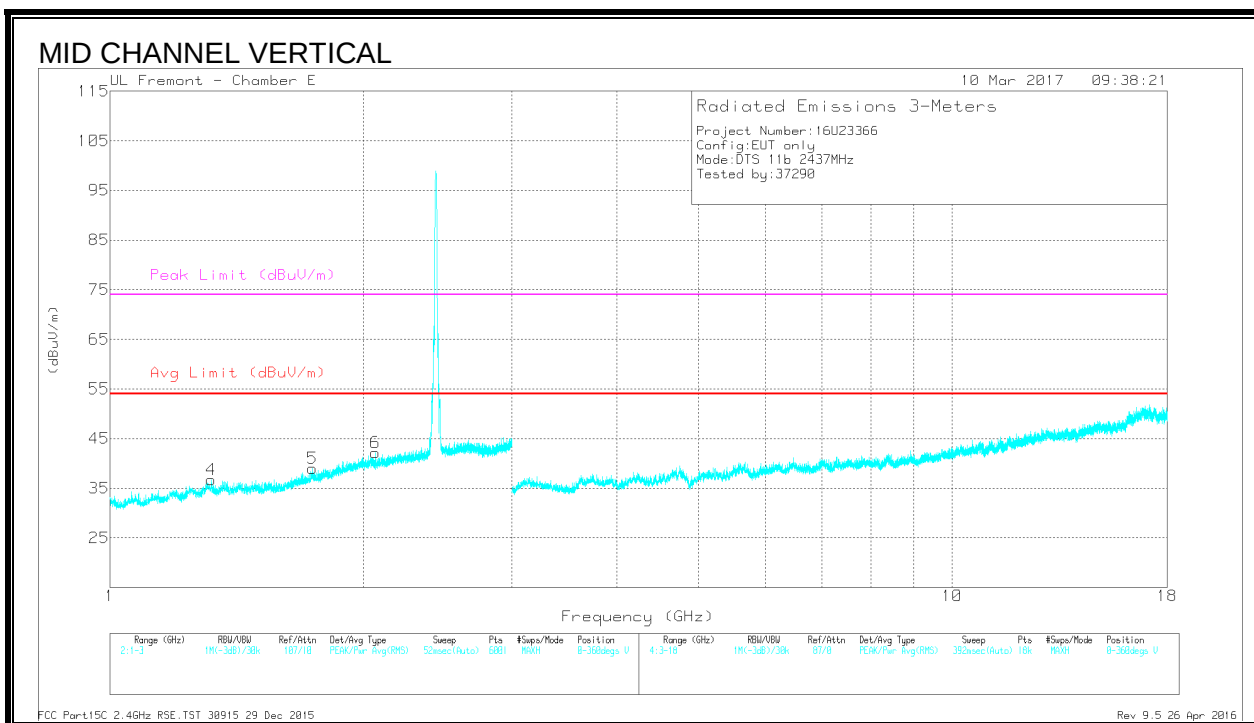
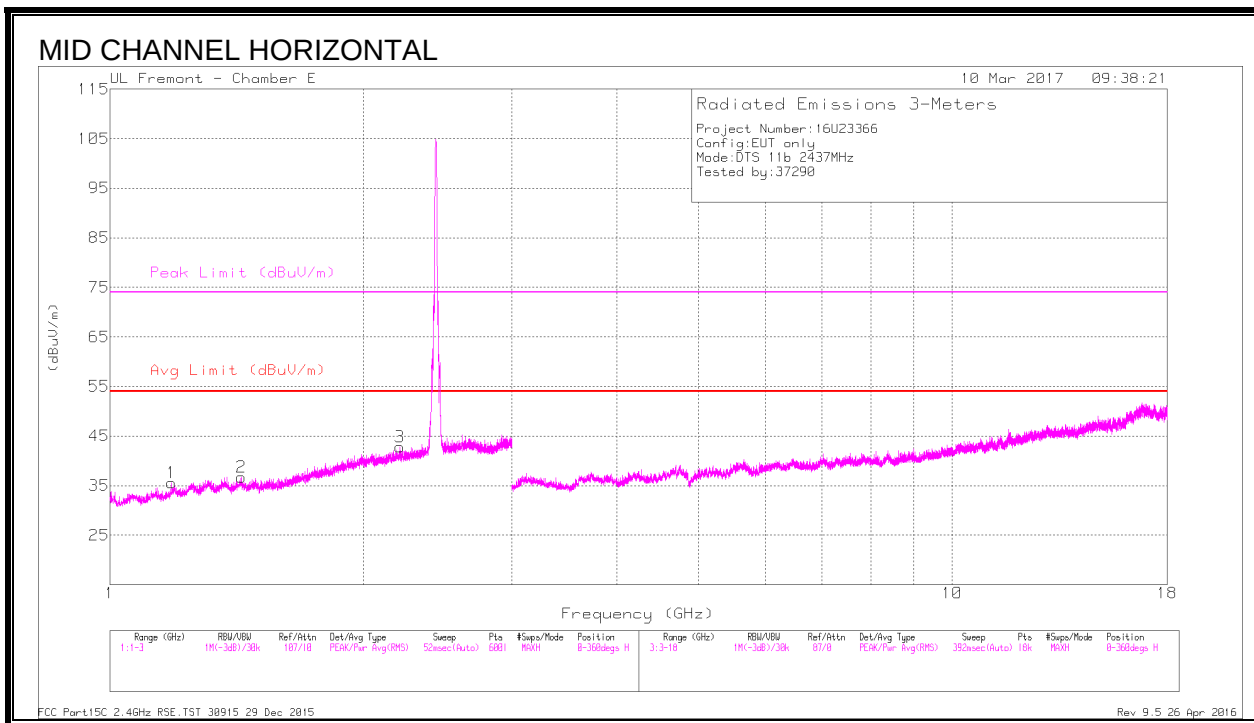
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015

Rev 9.5 26 Apr 2016

HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL, CH 6)



DATA

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.182	36.87	PK2	28.1	-22.4	42.57	-	-	74	-31.43	0	100	H
* 1.182	22.97	MAv1	28.1	-22.4	28.67	54	-25.33	-	-	0	100	H
* 2.207	37.21	PK2	31.6	-19.5	49.31	-	-	74	-24.69	0	200	H
* 2.209	22.73	MAv1	31.6	-19.6	34.73	54	-19.27	-	-	0	200	H
* 1.32	37.2	PK2	28.8	-21.7	44.3	-	-	74	-29.7	0	101	V
* 1.318	22.67	MAv1	28.8	-21.8	29.67	54	-24.33	-	-	0	101	V
1.431	36.87	PK2	28.4	-21.4	43.87	-	-	-	-	0	200	H
1.739	36.6	PK2	29.6	-20.2	46	-	-	-	-	0	200	V
2.066	37.4	PK2	31.4	-20.3	48.5	-	-	-	-	0	200	V

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

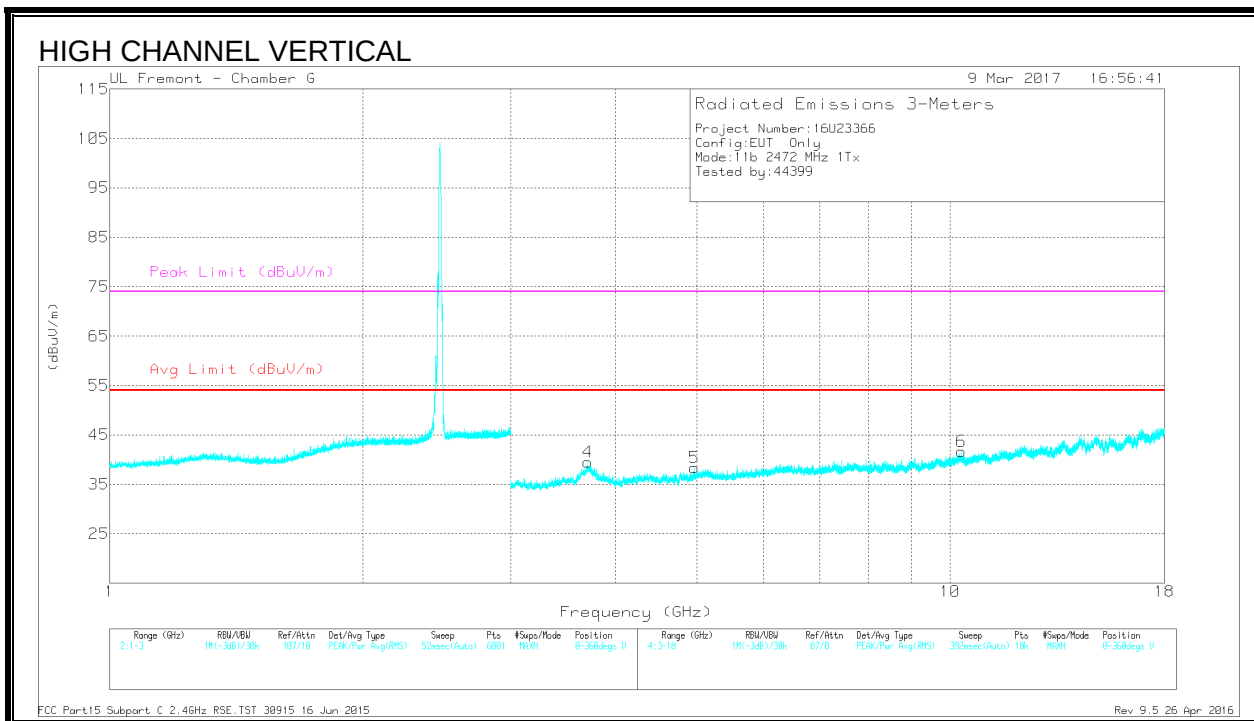
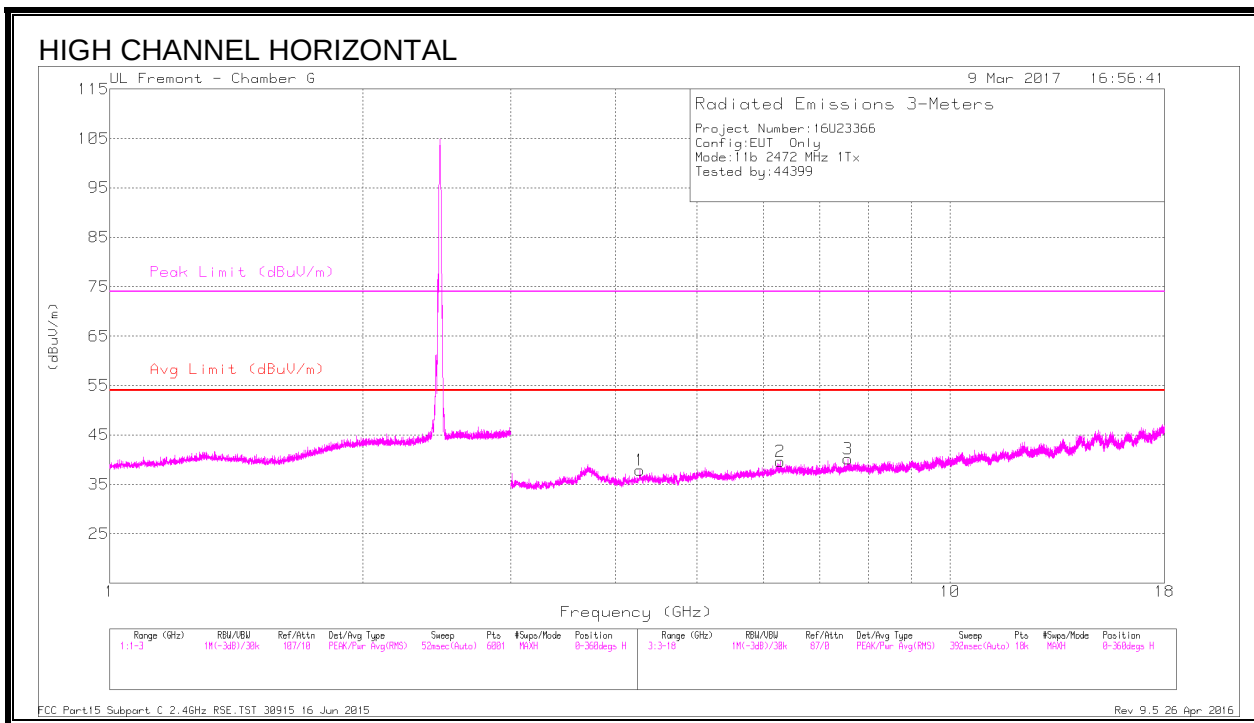
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015

Rev 9.5 26 Apr 2016

HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL, CH 13)



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	* 4.277	40.1	PK2	33.9	-31.3	42.7	-	-	74	-31.3	180	145	H
	* 4.278	29.98	MAv1	33.9	-31.3	32.58	54	-21.42	-	-	180	145	H
3	* 7.556	38.59	PK2	36	-29.2	45.39	-	-	74	-28.61	78	166	H
	* 7.554	27.73	MAv1	36	-29.2	34.53	54	-19.47	-	-	78	166	H
4	* 3.704	40.23	PK2	34.3	-30.7	43.83	-	-	74	-30.17	264	400	V
	* 3.705	30.11	MAv1	34.3	-30.7	33.71	54	-20.29	-	-	264	400	V
5	* 4.966	40.12	PK2	34.6	-31.8	42.92	-	-	74	-31.08	145	214	V
	* 4.964	30.01	MAv1	34.6	-31.7	32.91	54	-21.09	-	-	145	214	V
2	6.284	39.33	PK2	35.6	-30.7	44.23	-	-	-	-	225	198	H
6	10.314	36.92	PK2	37.3	-26.3	47.92	-	-	-	-	225	201	V

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

PK2 - KDB558074 Method: Maximum Peak

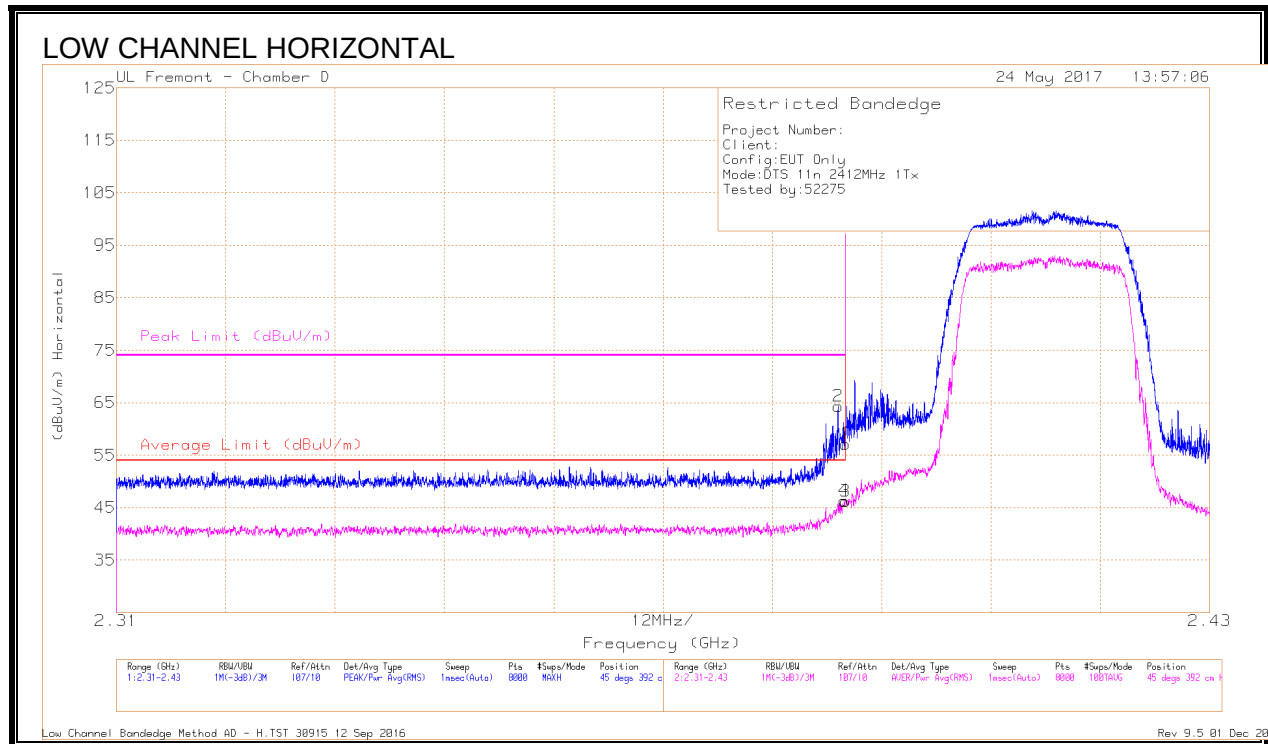
MAv1 - KDB558074 Option 1 Maximum RMS Average

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

Rev 9.5 26 Apr 2016

9.2.3. 11n HT20 UAT 1 SISO MODE IN THE 2.4GHZ BAND

AUTHORIZED BANDEDGE (LOW CHANNEL, CH 1)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (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
2	* 2.389	53.06	Pk	32.1	-20.8	64.36	-	-	74	-9.64	45	392	H
1	* 2.39	45.74	Pk	32.1	-20.7	57.14	-	-	74	-16.86	45	392	H
3	* 2.39	34.76	RMS	32.1	-20.7	46.16	54	-7.84	-	-	45	392	H
4	* 2.39	34.94	RMS	32.1	-20.7	46.34	54	-7.66	-	-	45	392	H

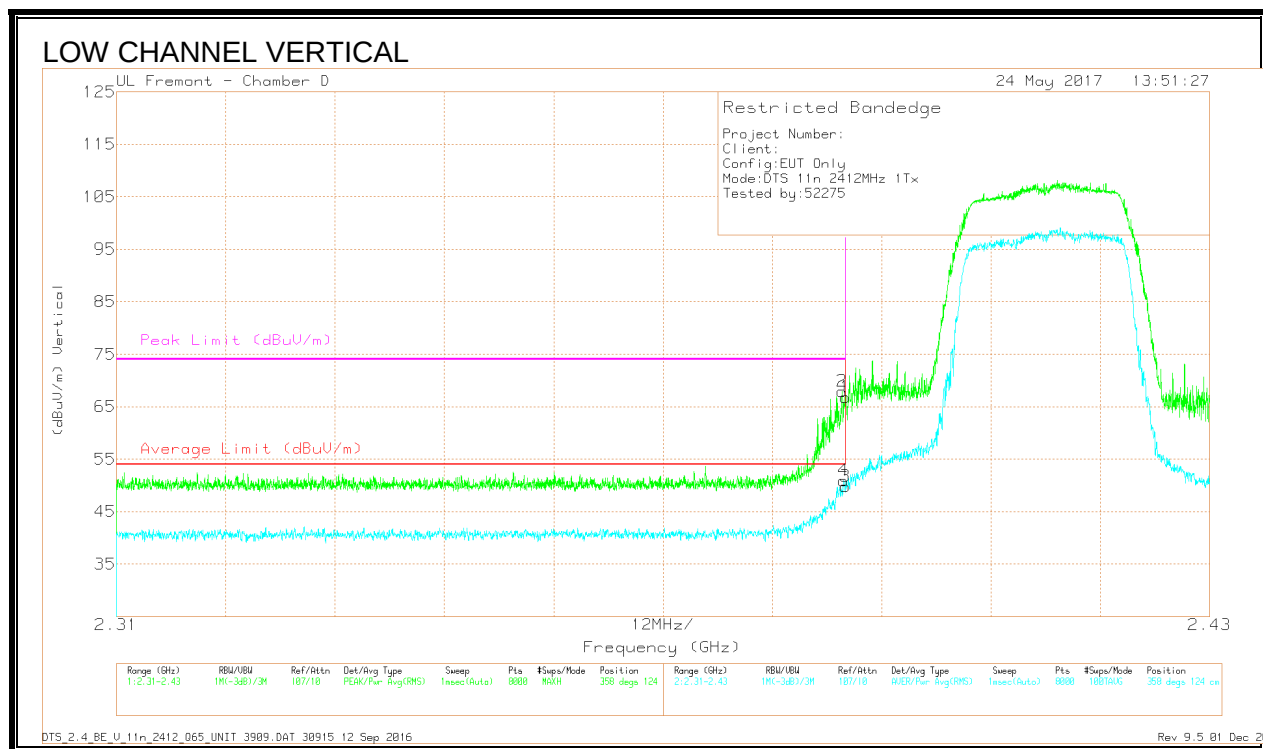
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

Low Channel Bandedge Method AD - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (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	55.45	Pk	32.1	-20.7	66.85	-	-	74	-7.15	358	124	V
2	* 2.39	56.67	Pk	32.1	-20.8	67.97	-	-	74	-6.03	358	124	V
3	* 2.39	38.44	RMS	32.1	-20.7	49.84	54	-4.16	-	-	358	124	V
4	* 2.39	39.63	RMS	32.1	-20.8	50.93	54	-3.07	-	-	358	124	V

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

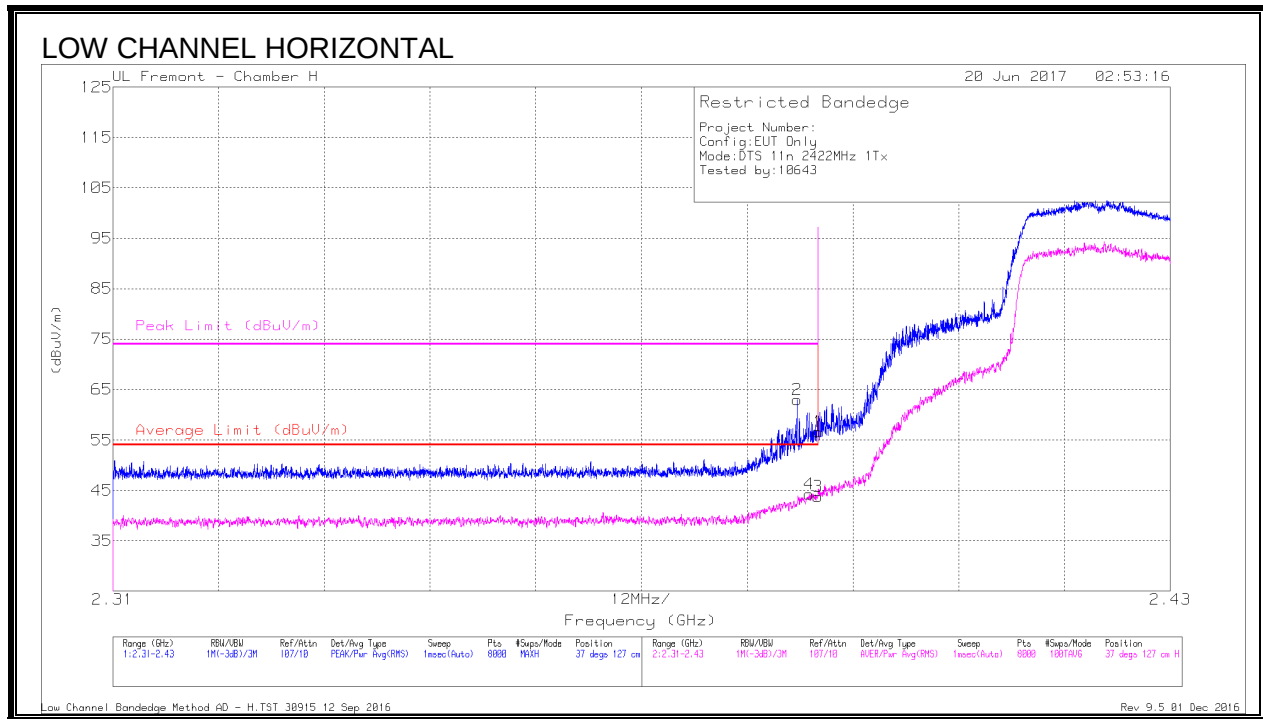
Pk - Peak detector

RMS - RMS detection

DTS_2.4_BE_V_11n_2412_Q65_UNIT 3909.DAT 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

AUTHORIZED BANDEDGE (LOW CHANNEL, CH 3)



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	52.38	Pk	32.3	-28.1	62.58	-	-	74	-11.42	37	127	H
2	* 2.388	58.75	Pk	32.3	-28.1	68.95	-	-	74	-5.05	37	127	H
3	* 2.39	39.56	RMS	32.3	-28.1	49.76	54	-4.24	-	-	37	127	H
4	* 2.389	40.11	RMS	32.3	-28.1	50.31	54	-3.69	-	-	37	127	H

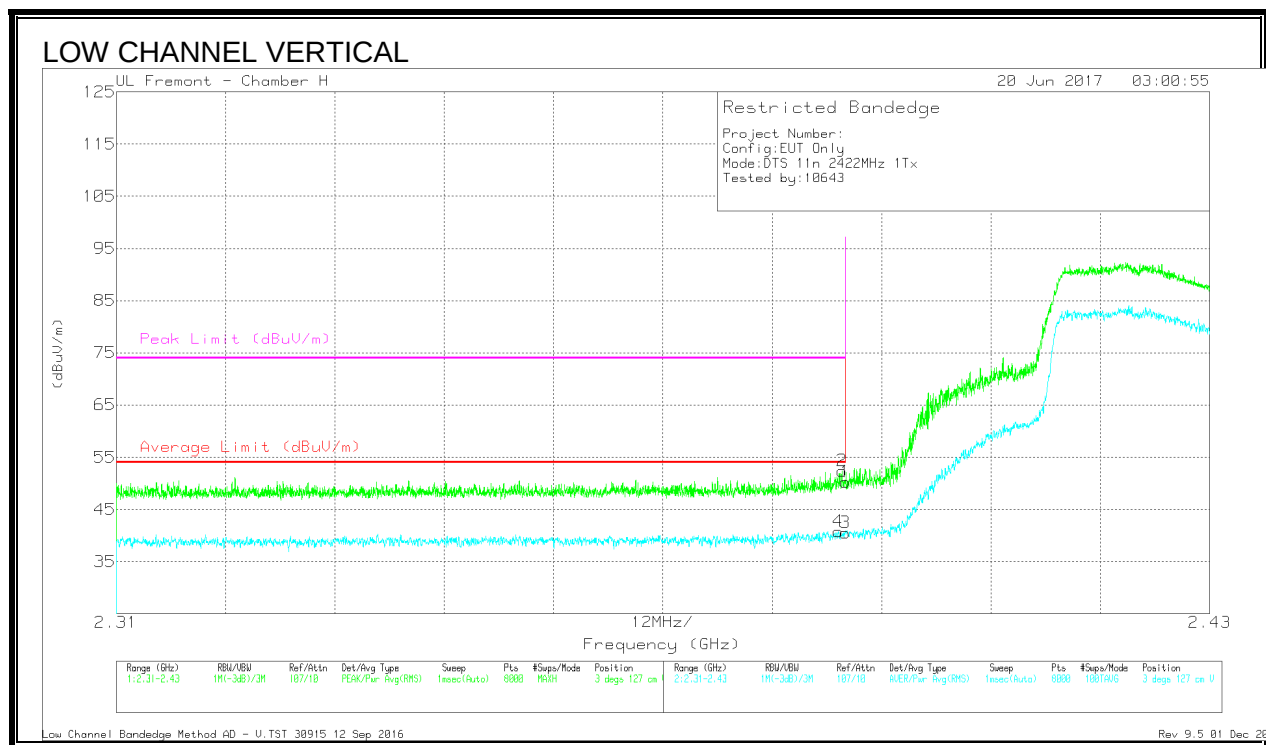
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

Low Channel Bandedge Method AD - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016



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
4	* 2.389	36.54	RMS	32.3	-28.1	46.74	54	-7.26	-	-	3	127	V
1	* 2.39	46.07	Pk	32.3	-28.1	56.27	-	-	74	-17.73	3	127	V
2	* 2.39	48.23	Pk	32.3	-28.1	58.43	-	-	74	-15.57	3	127	V
3	* 2.39	36.31	RMS	32.3	-28.1	46.51	54	-7.49	-	-	3	127	V

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

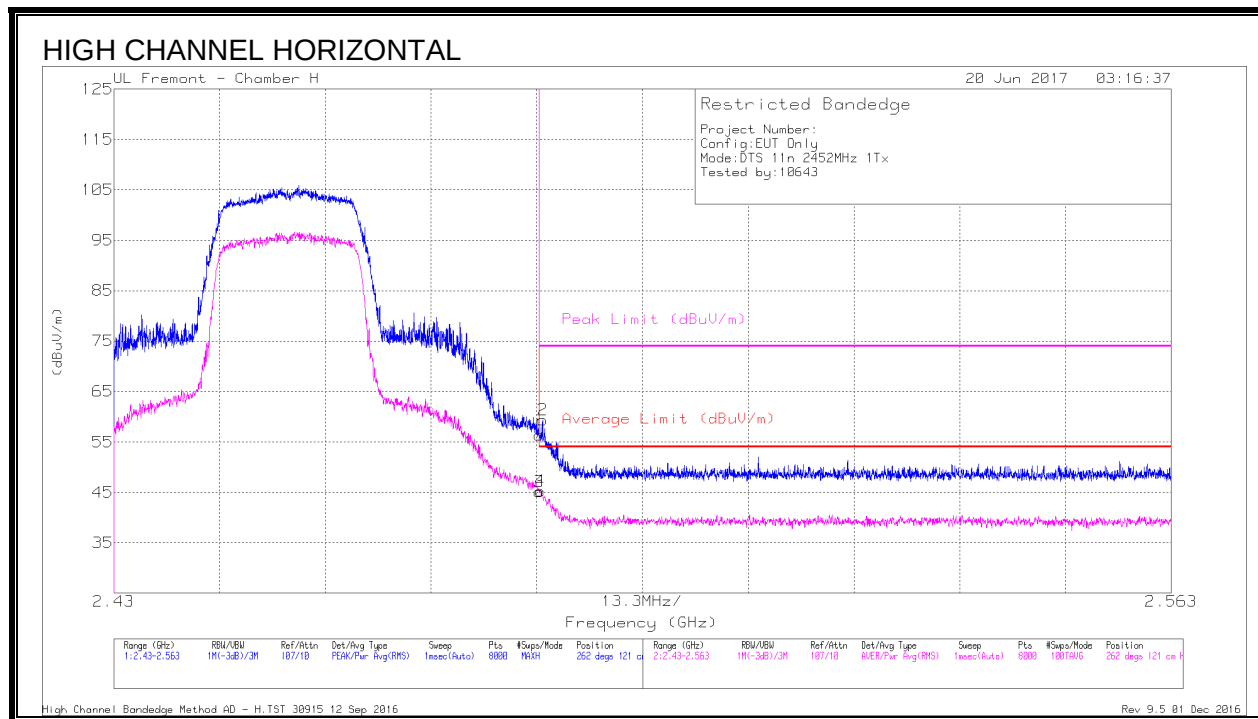
Pk - Peak detector

RMS - RMS detection

Low Channel Bandedge Method AD - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 9)



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	52.13	Pk	32.4	-28.2	62.33	-	-	74	-11.67	262	121	H
2	* 2.484	55.2	Pk	32.4	-28.2	65.4	-	-	74	-8.6	262	121	H
3	* 2.484	40.92	RMS	32.4	-28.2	51.12	54	-2.88	-	-	262	121	H
4	* 2.484	41.13	RMS	32.4	-28.2	51.33	54	-2.67	-	-	262	121	H

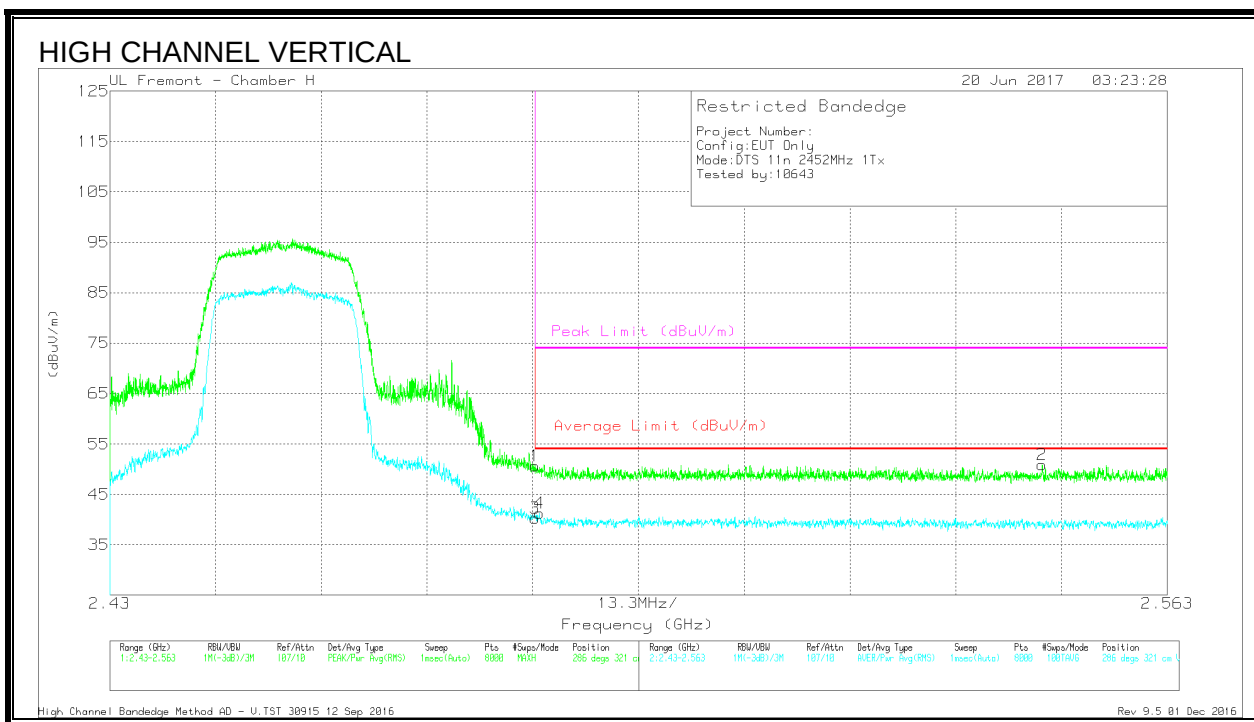
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

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

Rev 9.5 01 Dec 2016



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	46.49	Pk	32.4	-28.2	56.69	-	-	74	-17.31	286	321	V
3	* 2.484	36.07	RMS	32.4	-28.2	46.27	54	-7.73	-	-	286	321	V
4	* 2.484	37.04	RMS	32.4	-28.2	47.24	54	-6.76	-	-	286	321	V
2	2.547	46.84	Pk	32.3	-28.2	56.94	-	-	74	-17.06	286	321	V

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

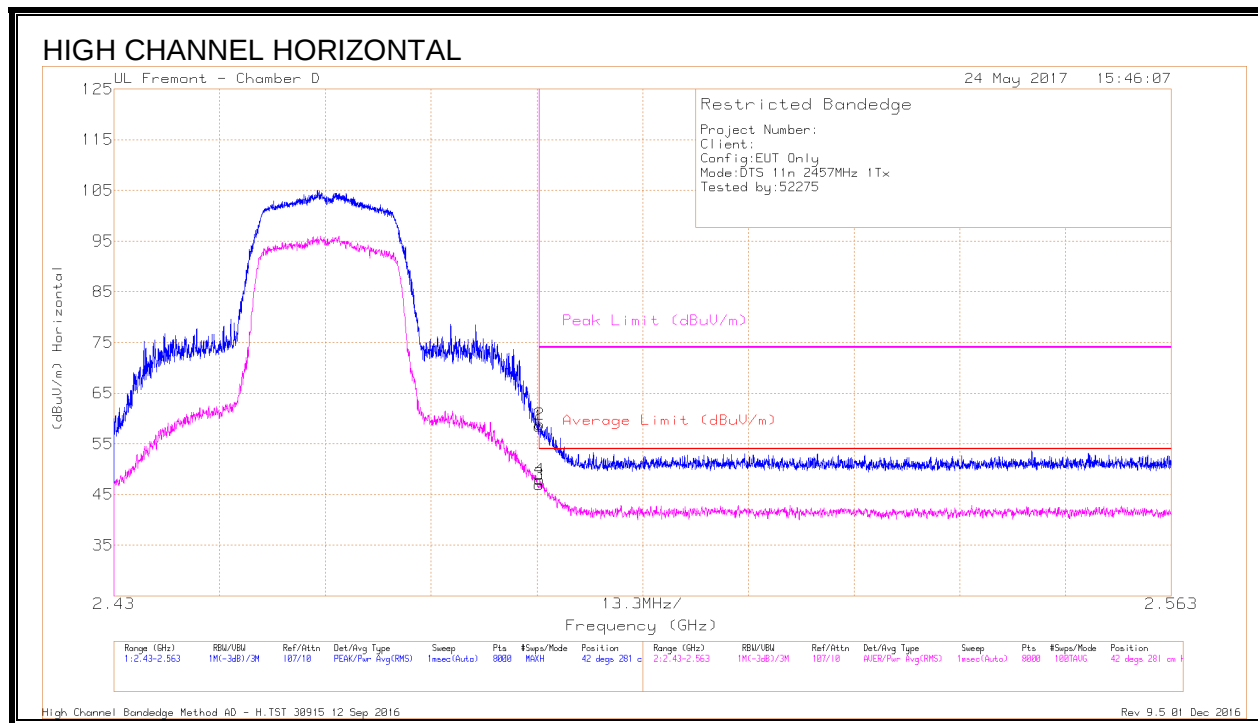
Pk - Peak detector

RMS - RMS detection

High Channel Bandedge Method AD - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 10)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (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	46.84	Pk	32.5	-20.8	58.54	-	-	74	-15.46	42	281	H
2	* 2.484	47.21	Pk	32.5	-20.8	58.91	-	-	74	-15.09	42	281	H
3	* 2.484	35.3	RMS	32.5	-20.8	47	54	-7	-	-	42	281	H
4	* 2.484	36.21	RMS	32.5	-20.8	47.91	54	-6.09	-	-	42	281	H

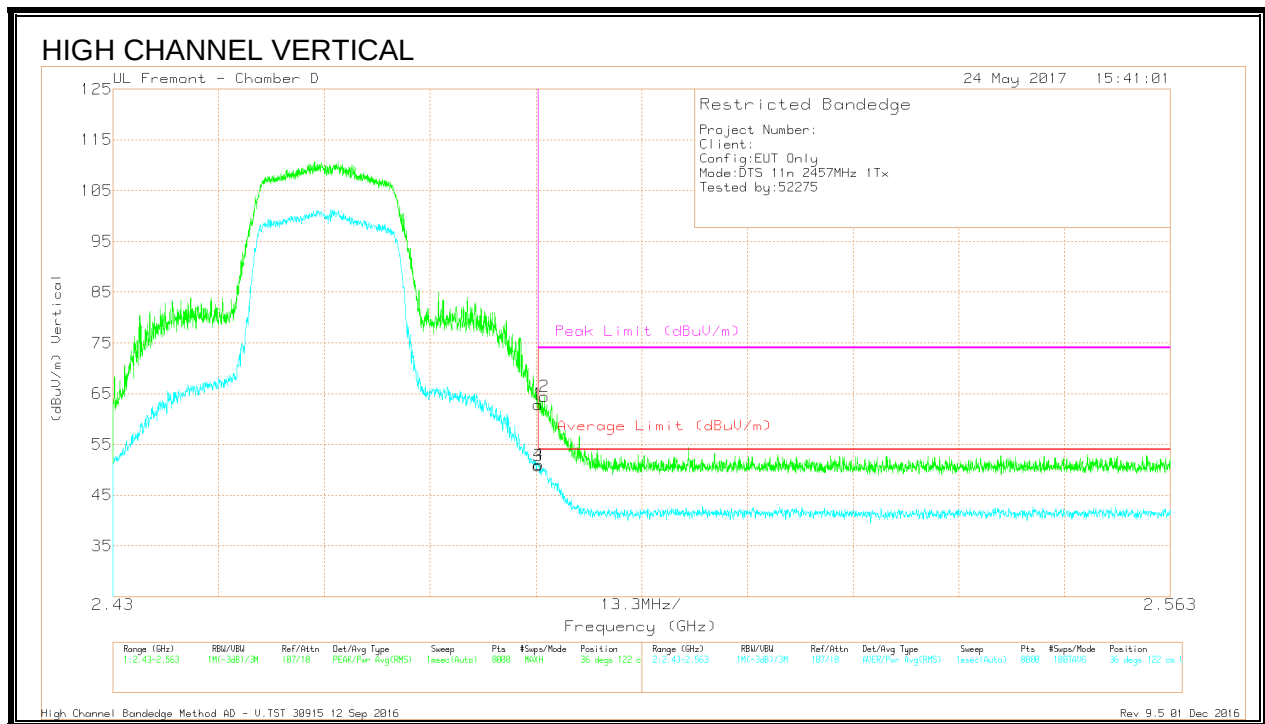
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

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

Rev 9.5 01 Dec 2016



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (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	51.19	Pk	32.5	-20.8	62.89	-	-	74	-11.11	36	122	V
2	* 2.484	52.72	Pk	32.5	-20.8	64.42	-	-	74	-9.58	36	122	V
3	* 2.484	39.05	RMS	32.5	-20.8	50.75	54	-3.25	-	-	36	122	V
4	* 2.484	39.39	RMS	32.5	-20.8	51.09	54	-2.91	-	-	36	122	V

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

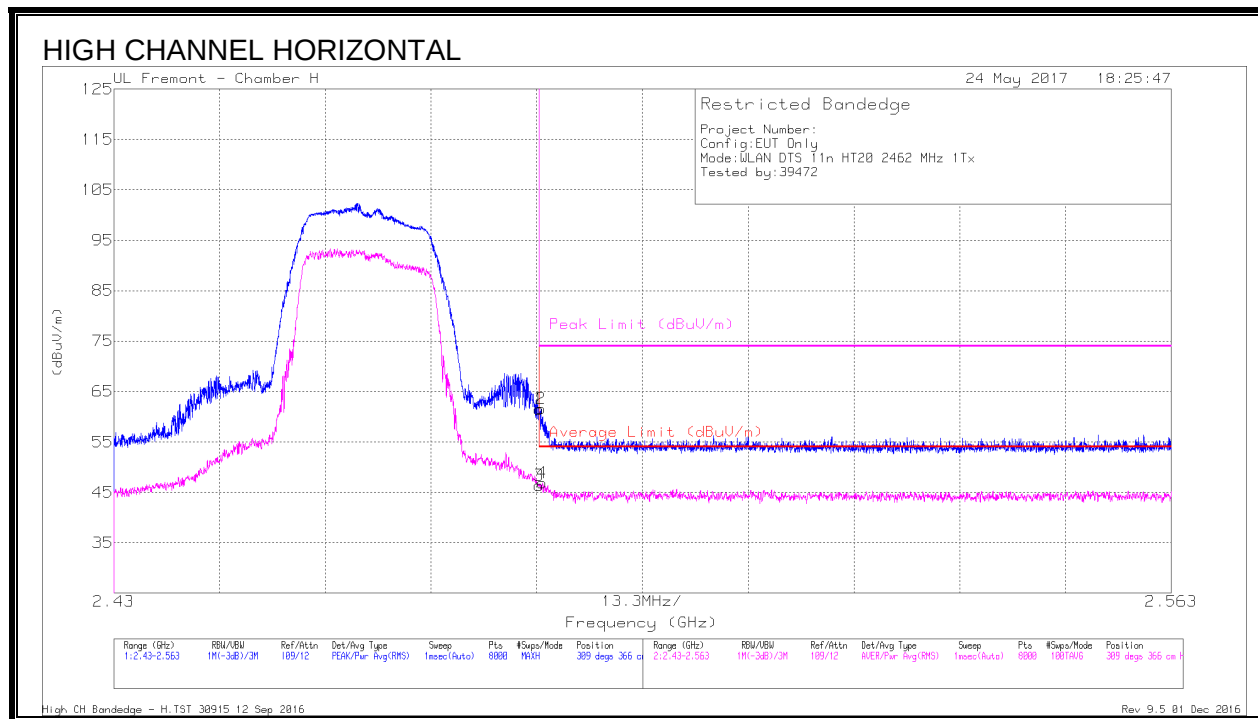
Pk - Peak detector

RMS - RMS detection

High Channel Bandedge Method AD - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 11)



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	45.47	Pk	32.4	-16.4	61.47	-	-	74	-12.53	309	366	H
2	* 2.484	45.64	Pk	32.4	-16.4	61.64	-	-	74	-12.36	309	366	H
3	* 2.484	30.43	RMS	32.4	-16.4	46.43	54	-7.57	-	-	309	366	H
4	* 2.484	30.93	RMS	32.4	-16.4	46.93	54	-7.07	-	-	309	366	H

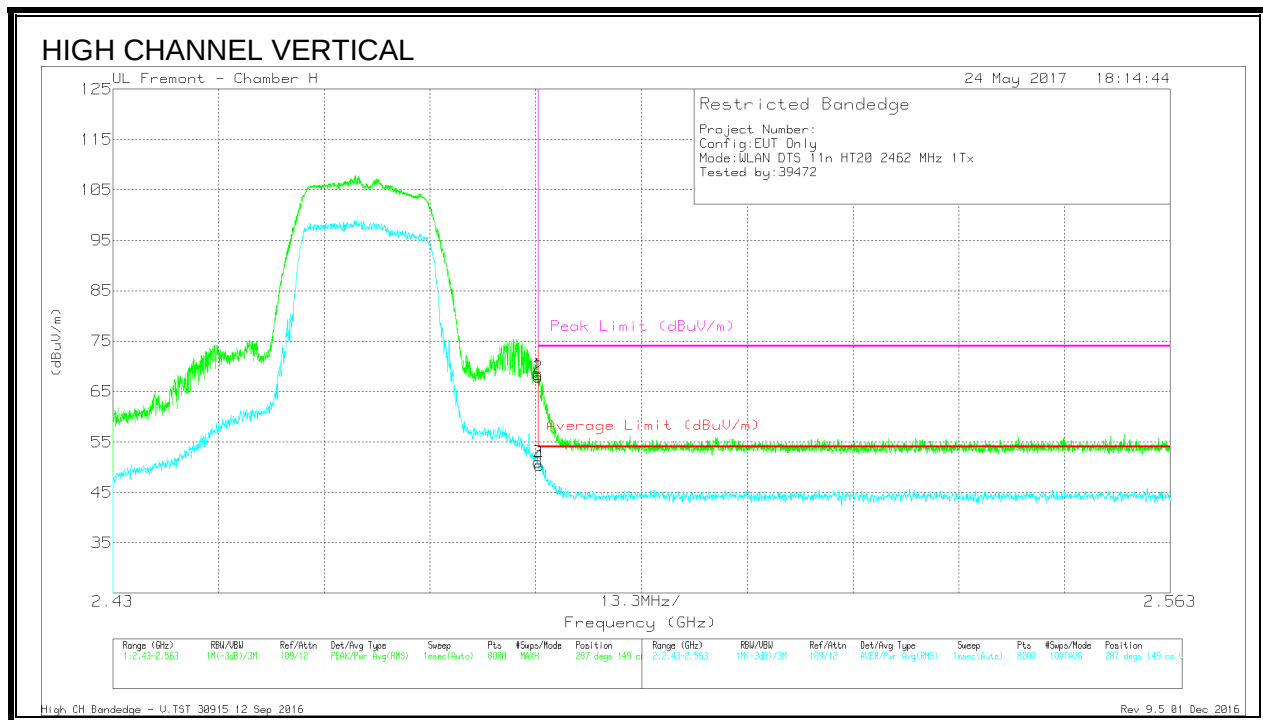
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

High CH Bandedge - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (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	52.38	Pk	32.4	-16.4	68.38	-	-	74	-5.62	287	149	V
2	* 2.484	51.91	Pk	32.4	-16.4	67.91	-	-	74	-6.09	287	149	V
3	* 2.484	35.06	RMS	32.4	-16.4	51.06	54	-2.94	-	-	287	149	V
4	* 2.484	34.37	RMS	32.4	-16.4	50.37	54	-3.63	-	-	287	149	V

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

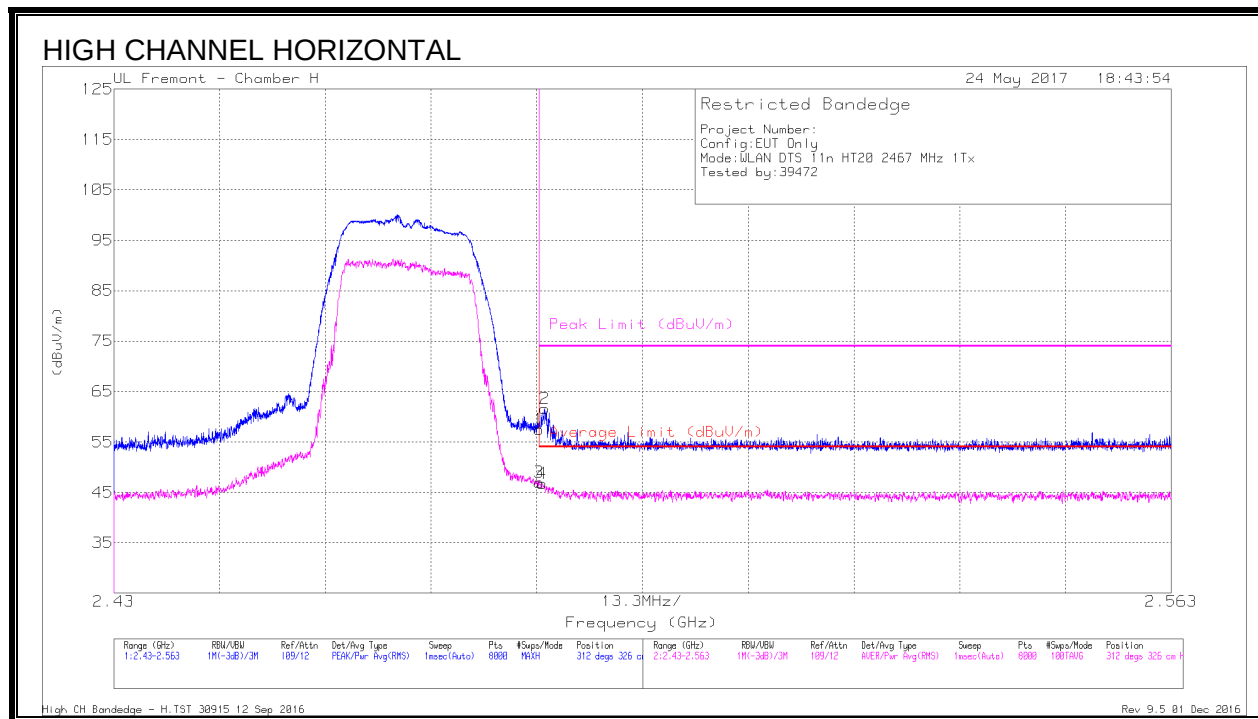
Pk - Peak detector

RMS - RMS detection

High CH Bandedge - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 12)



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	41.47	Pk	32.4	-16.4	57.47	-	-	74	-16.53	312	326	H
2	* 2.484	45.59	Pk	32.4	-16.4	61.59	-	-	74	-12.41	312	326	H
3	* 2.484	31.05	RMS	32.4	-16.4	47.05	54	-6.95	-	-	312	326	H
4	* 2.484	30.74	RMS	32.4	-16.4	46.74	54	-7.26	-	-	312	326	H

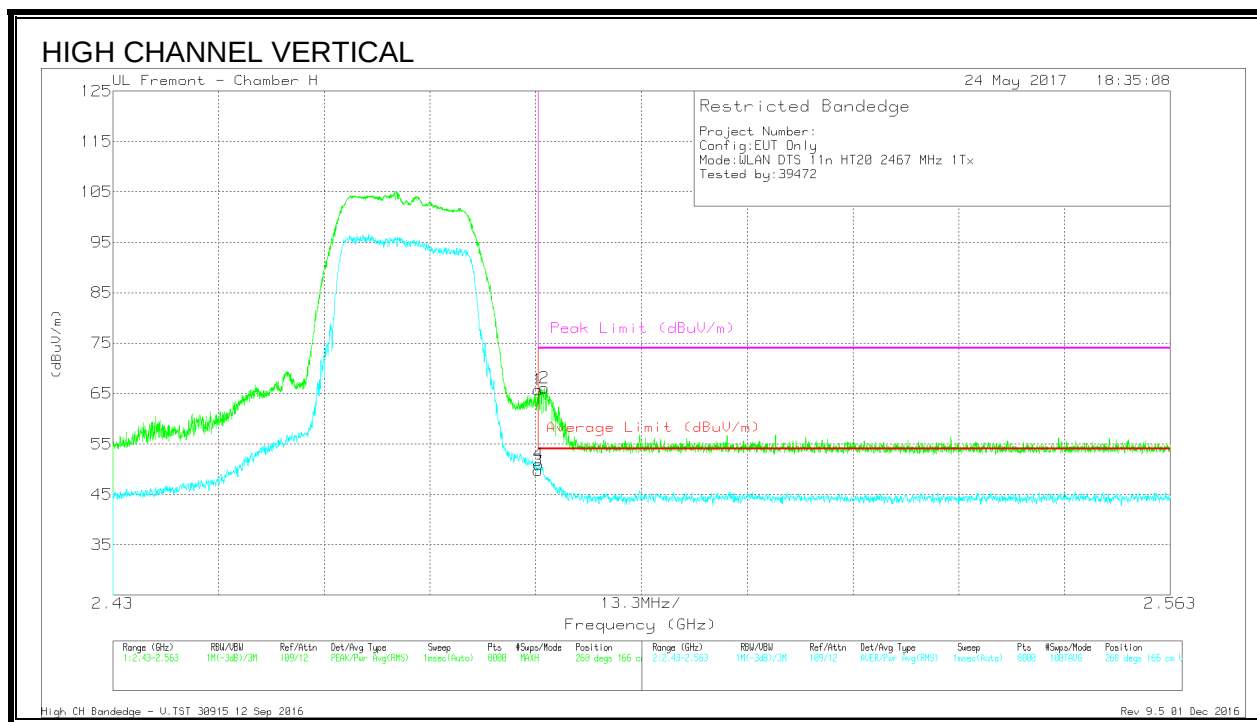
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

High CH Bandedge - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT344 (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	49.69	Pk	32.4	-16.4	65.69	-	-	74	-8.31	268	166	V
2	* 2.484	50.15	Pk	32.4	-16.4	66.15	-	-	74	-7.85	268	166	V
3	* 2.484	33.74	RMS	32.4	-16.4	49.74	54	-4.26	-	-	268	166	V
4	* 2.484	35.01	RMS	32.4	-16.4	51.01	54	-2.99	-	-	268	166	V

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

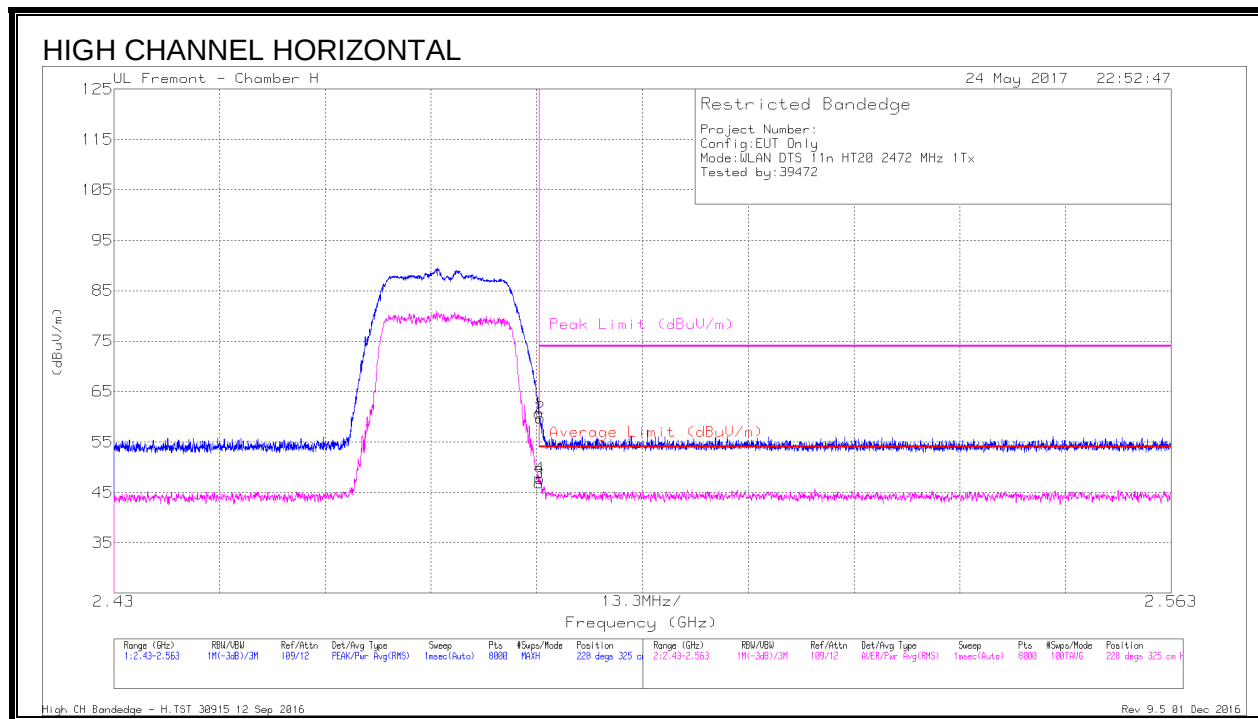
Pk - Peak detector

RMS - RMS detection

High CH Bandedge - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 13)



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	44.74	Pk	32.4	-16.4	60.74	-	-	74	-13.26	228	325	H
2	* 2.484	43.8	Pk	32.4	-16.4	59.8	-	-	74	-14.2	228	325	H
3	* 2.484	30.9	RMS	32.4	-16.4	46.9	54	-7.1	-	-	228	325	H
4	* 2.484	31.72	RMS	32.4	-16.4	47.72	54	-6.28	-	-	228	325	H

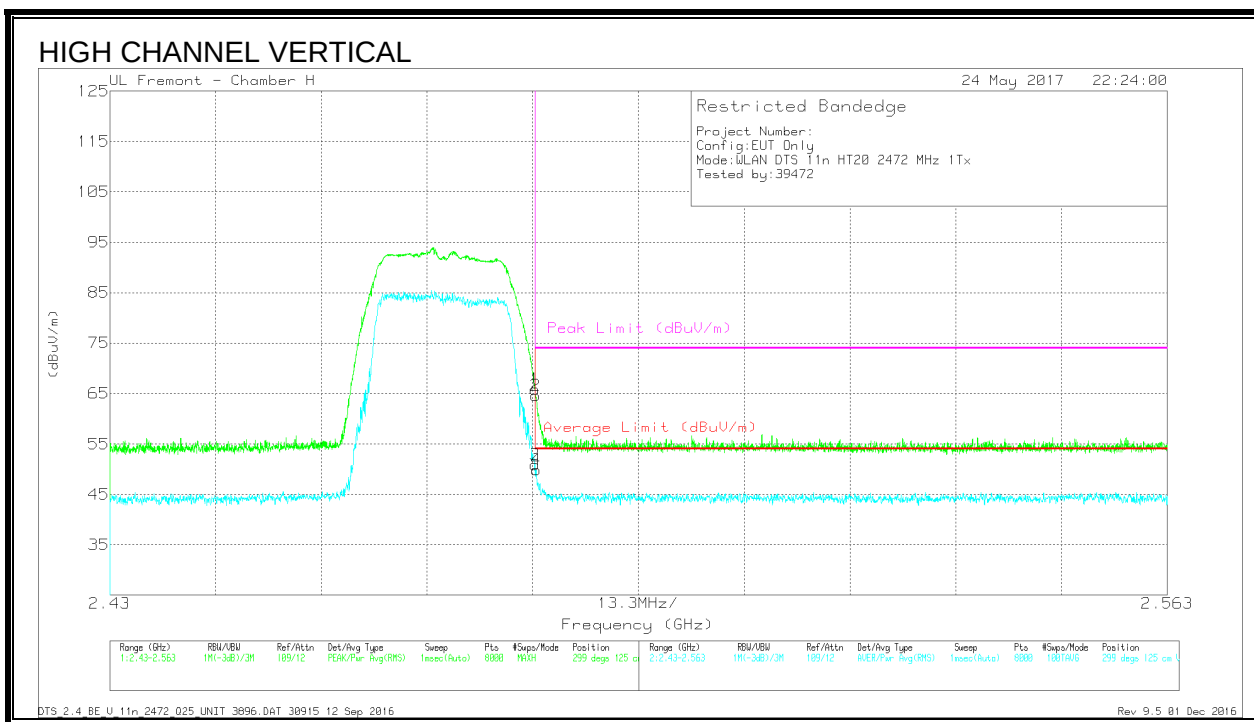
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

High CH Bandedge - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016



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	49.87	Pk	32.4	-16.4	65.87	-	-	74	-8.13	299	125	V
2	* 2.484	48.66	Pk	32.4	-16.4	64.66	-	-	74	-9.34	299	125	V
3	* 2.484	34.9	RMS	32.4	-16.4	50.9	54	-3.1	-	-	299	125	V
4	* 2.484	33.87	RMS	32.4	-16.4	49.87	54	-4.13	-	-	299	125	V

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

Pk - Peak detector

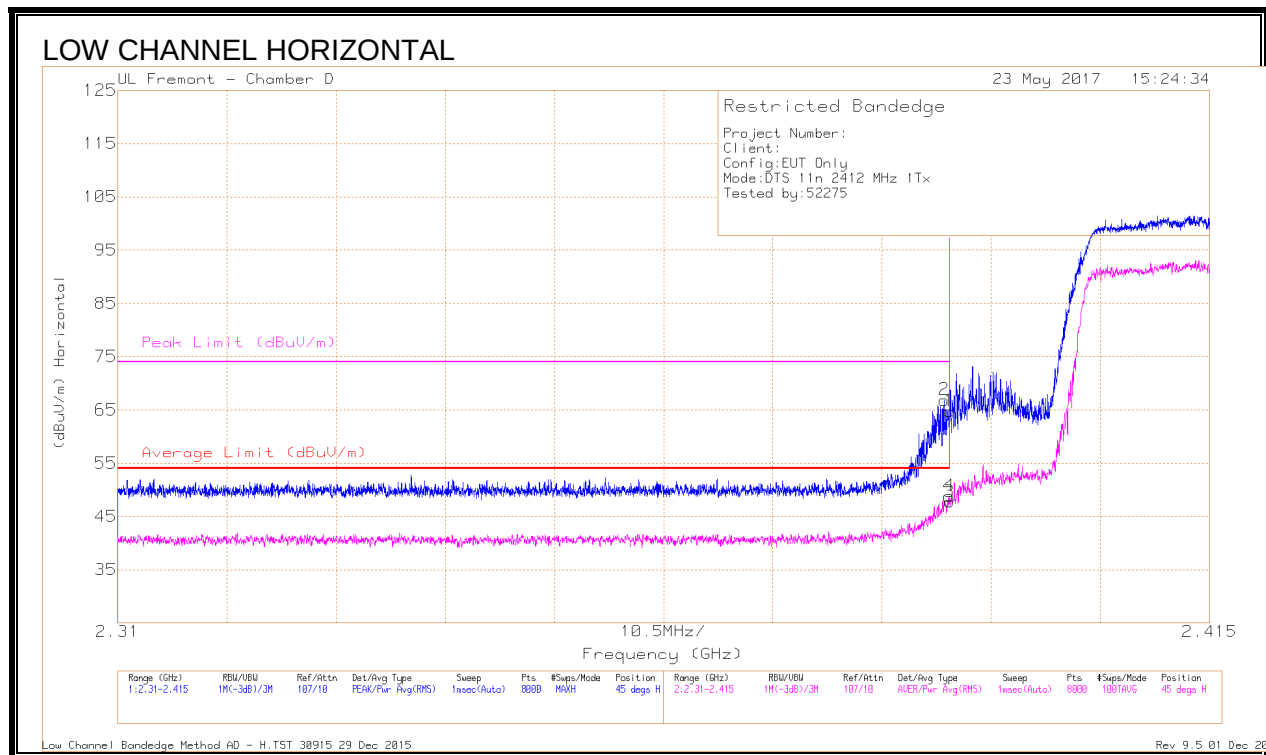
RMS - RMS detection

DTS_2.4_BE_V_11n_2472_Q25_UNIT 3896.DAT 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

9.2.4. 11n HT20 LAT 3 SISO MODE IN THE 2.4GHz BAND

AUTHORIZED BANDEGE (LOW CHANNEL, CH 1)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT120 (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
2	* 2.389	55.58	Pk	32.1	-20.8	66.88	-	-	74	-7.12	45	337	H
1	* 2.39	53.39	Pk	32.1	-20.7	64.79	-	-	74	-9.21	45	337	H
3	* 2.39	36.33	RMS	32.1	-20.7	47.73	54	-6.27	-	-	45	337	H
4	* 2.39	37.42	RMS	32.1	-20.7	48.82	54	-5.18	-	-	45	337	H

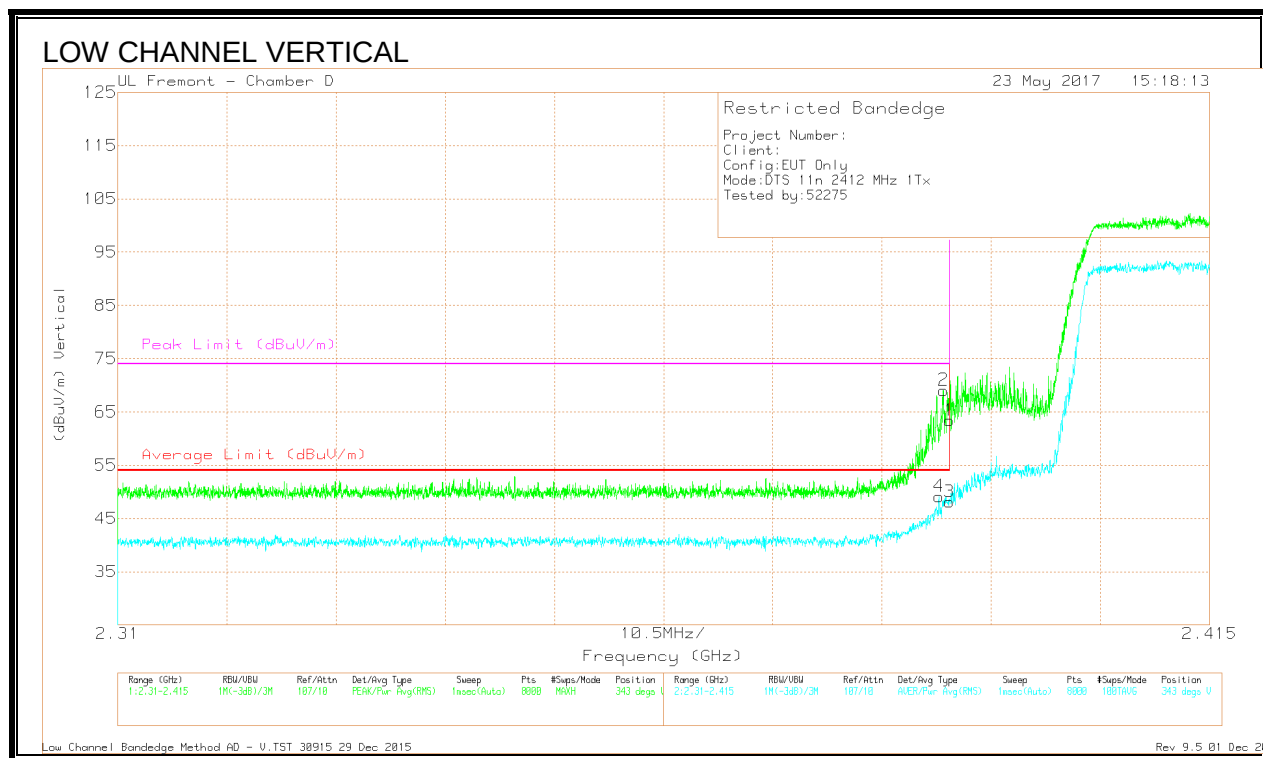
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

Low Channel Bandedge Method AD - H.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2016



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (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
2	* 2.389	57.75	Pk	32.1	-20.8	69.05	-	-	74	-4.95	343	135	V
4	* 2.389	37.82	RMS	32.1	-20.8	49.12	54	-4.88	-	-	343	135	V
1	* 2.39	52	Pk	32.1	-20.7	63.4	-	-	74	-10.6	343	135	V
3	* 2.39	36.71	RMS	32.1	-20.7	48.11	54	-5.89	-	-	343	135	V

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

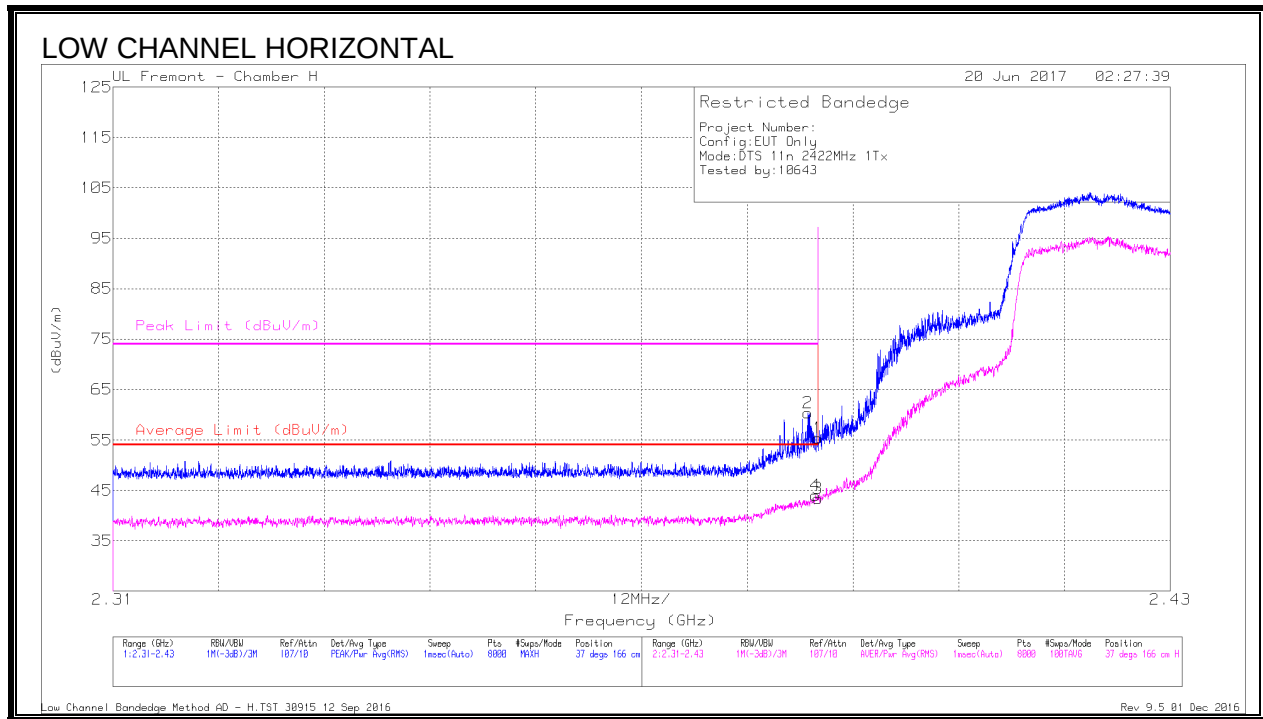
Pk - Peak detector

RMS - RMS detection

Low Channel Bandedge Method AD - V.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2016

AUTHORIZED BANDEGE (LOW CHANNEL, CH 3)



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	51.17	Pk	32.3	-28.1	61.37	-	-	74	-12.63	37	166	H
2	* 2.389	56.23	Pk	32.3	-28.1	66.43	-	-	74	-7.57	37	166	H
3	* 2.39	39.24	RMS	32.3	-28.1	49.44	54	-4.56	-	-	37	166	H
4	* 2.39	39.78	RMS	32.3	-28.1	49.98	54	-4.02	-	-	37	166	H

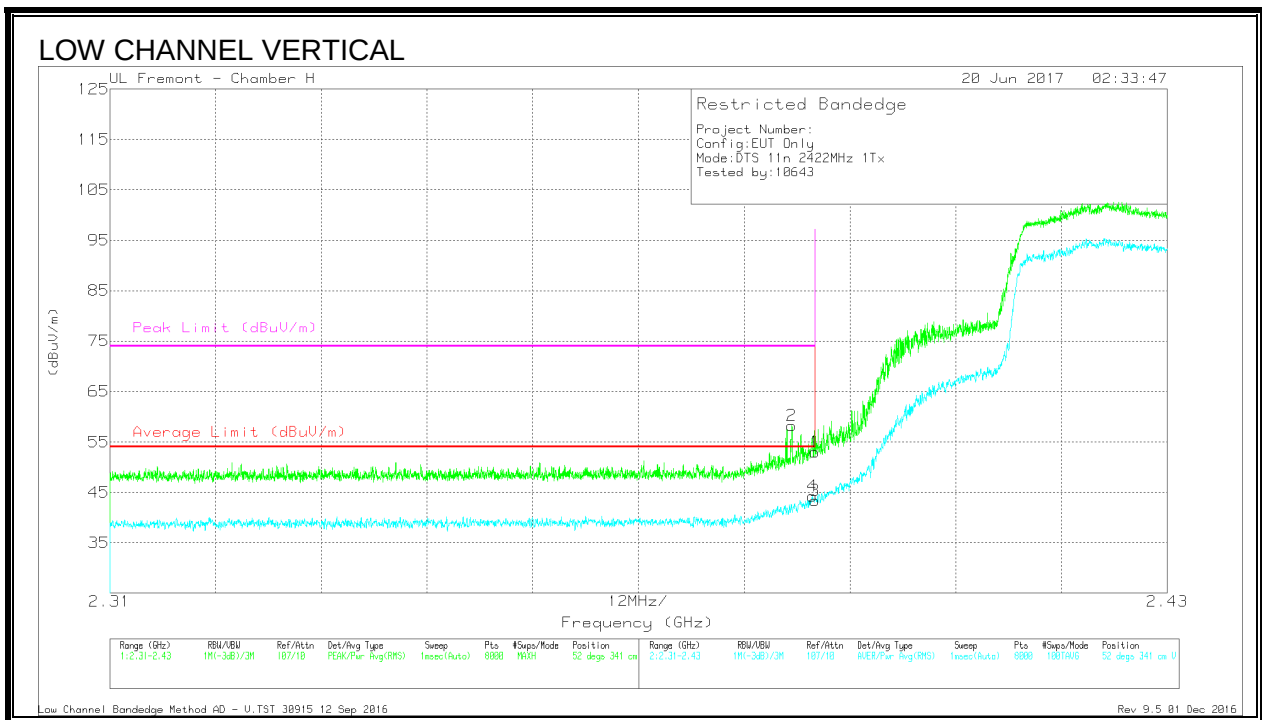
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

Low Channel Bandedge Method AD - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016



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	48.85	Pk	32.3	-28.1	59.05	-	-	74	-14.95	52	341	V
2	* 2.387	54.01	Pk	32.3	-28.1	64.21	-	-	74	-9.79	52	341	V
3	* 2.39	39.24	RMS	32.3	-28.1	49.44	54	-4.56	-	-	52	341	V
4	* 2.39	40.07	RMS	32.3	-28.1	50.27	54	-3.73	-	-	52	341	V

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

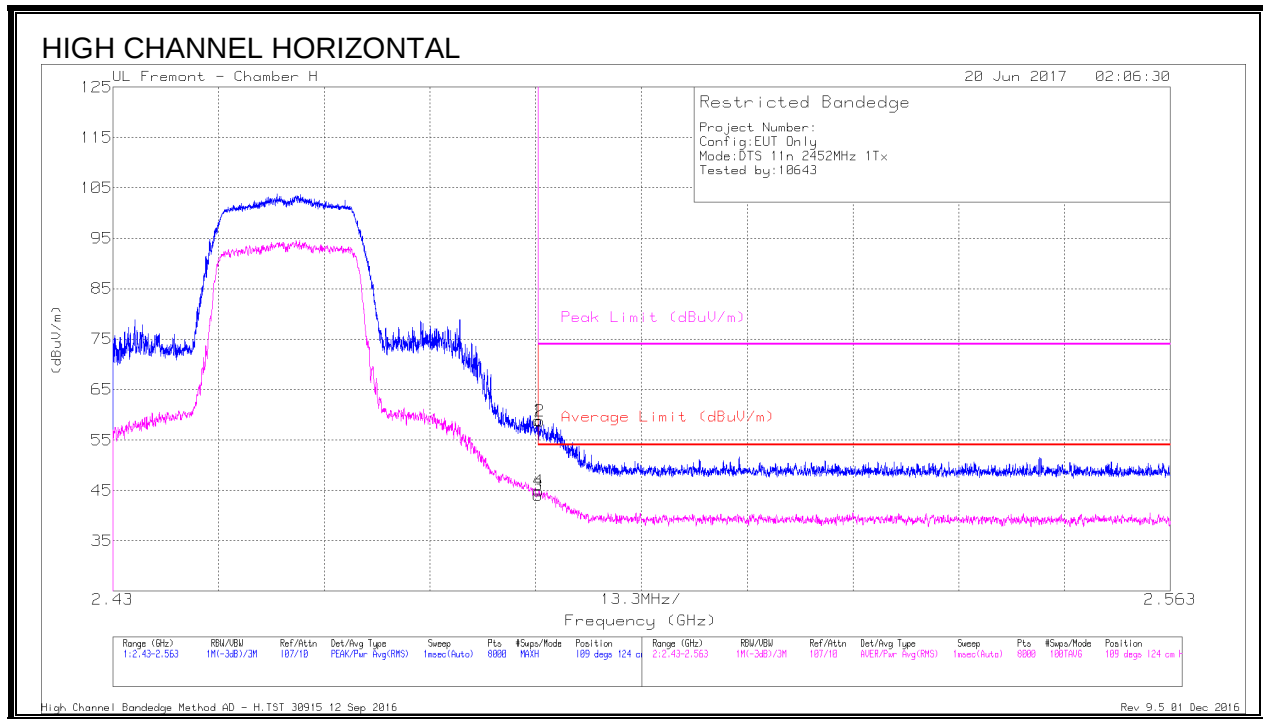
Pk - Peak detector

RMS - RMS detection

Low Channel Bandedge Method AD - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 9)



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	54.63	Pk	32.4	-28.2	64.83	-	-	74	-9.17	109	124	H
2	* 2.484	54.55	Pk	32.4	-28.2	64.75	-	-	74	-9.25	109	124	H
3	* 2.484	39.78	RMS	32.4	-28.2	49.98	54	-4.02	-	-	109	124	H
4	* 2.484	40.72	RMS	32.4	-28.2	50.92	54	-3.08	-	-	109	124	H

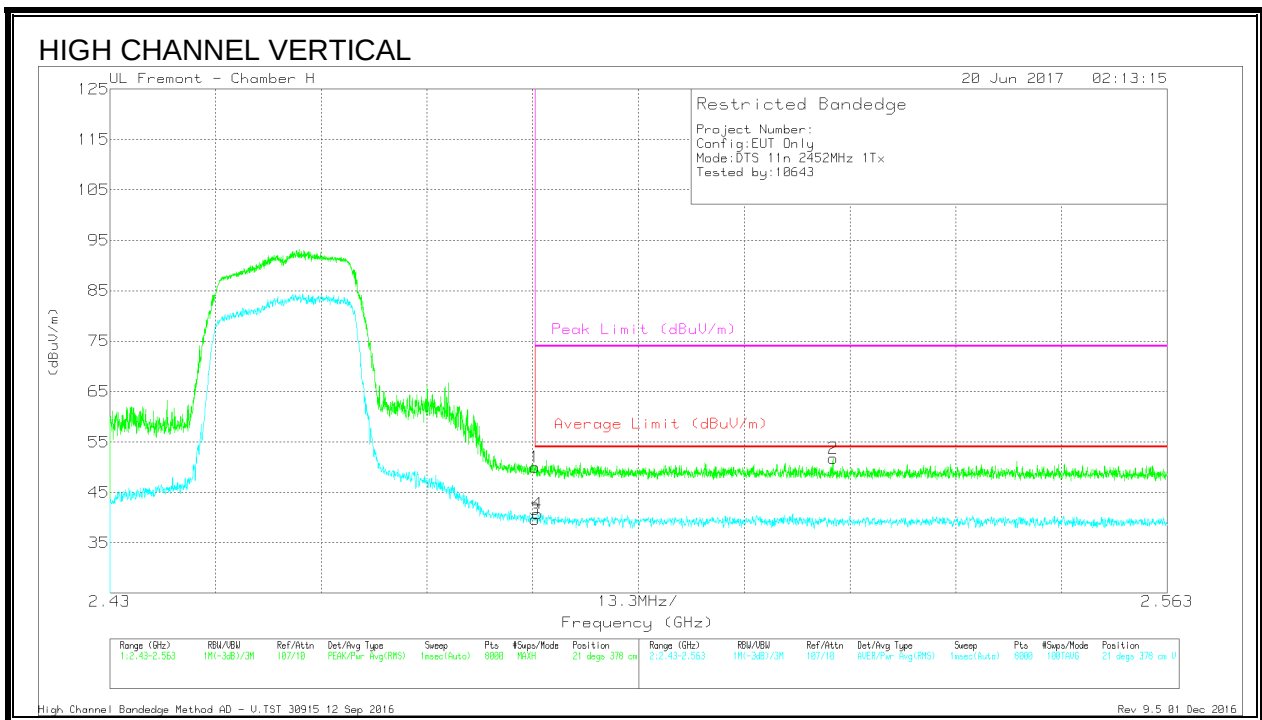
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

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

Rev 9.5 01 Dec 2016



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)	Polarization
1	* 2.484	45.77	Pk	32.4	-28.2	55.97	-	-	74	-18.03	21	378	V
3	* 2.484	35.5	RMS	32.4	-28.2	45.70	54	-8.30	-	-	21	378	V
4	* 2.484	36.57	RMS	32.4	-28.2	46.77	54	-7.23	-	-	21	378	V
2	2.521	47.47	Pk	32.4	-28.1	57.77	-	-	74	-16.23	21	378	V

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

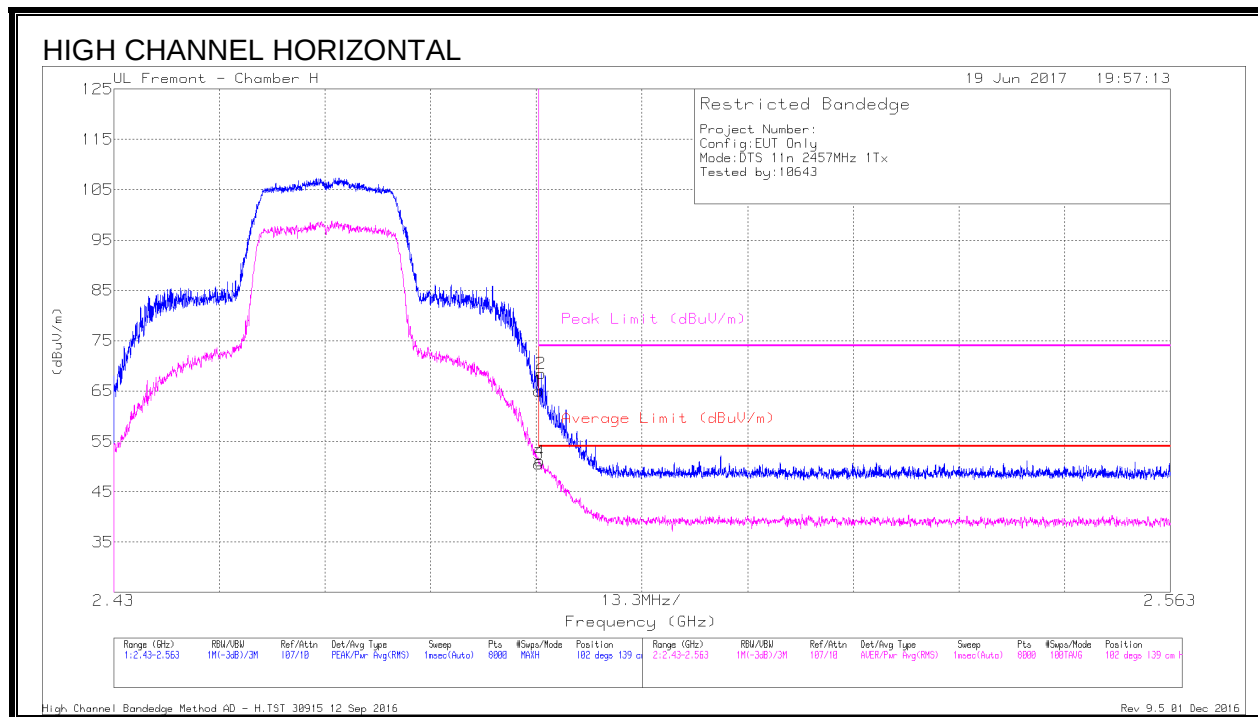
Pk - Peak detector

RMS - RMS detection

High Channel Bandedge Method AD - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 10)



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	60.75	Pk	32.4	-28.2	64.95	-	-	74	-9.05	102	139	H
2	* 2.484	64.25	Pk	32.4	-28.2	68.45	-	-	74	-5.55	102	139	H
3	* 2.484	46.36	RMS	32.4	-28.2	50.56	54	-3.44	-	-	102	139	H
4	* 2.484	46.88	RMS	32.4	-28.2	51.08	54	-2.92	-	-	102	139	H

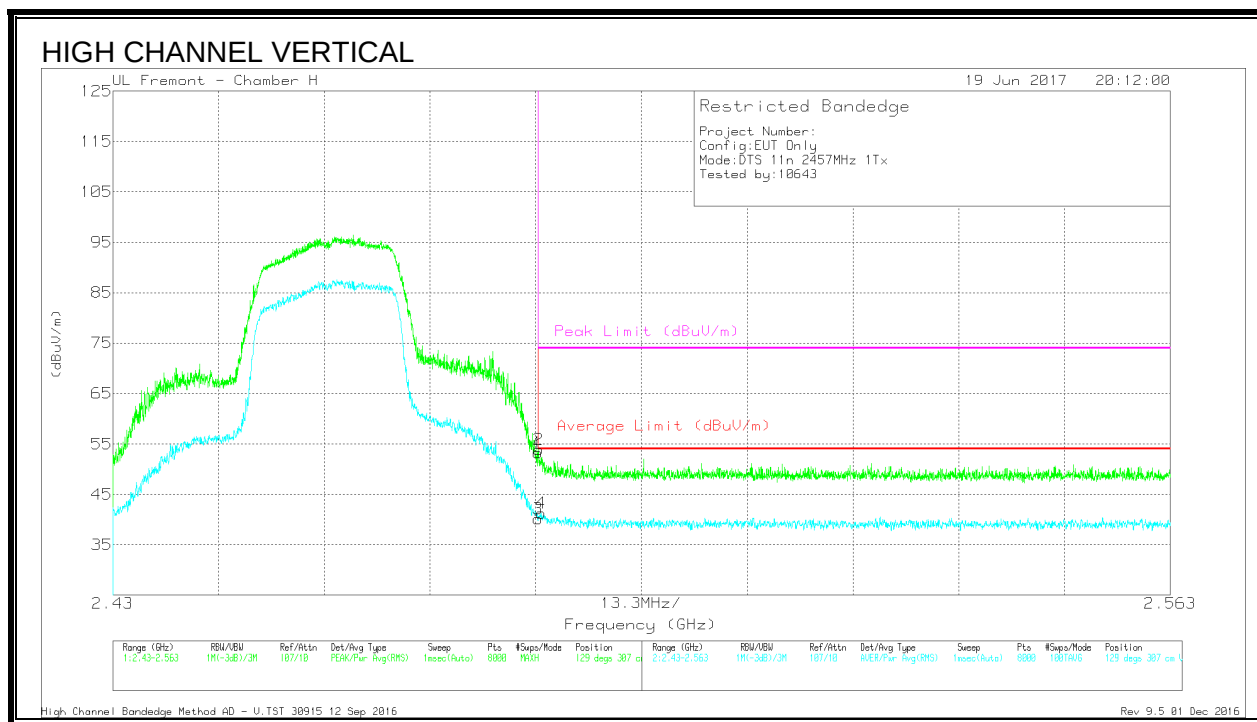
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

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

Rev 9.5 01 Dec 2016



Marker	Frequ ncy (GHz)	Meter Readin g (dBuV)	Det	AF T344 (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)	Azimet h (Degs)	Height (cm)	Polarit y
1	* 2.484	49.1	Pk	32.4	-28.2	53.3	-	-	74	-20.7	129	307	V
2	* 2.484	49.74	Pk	32.4	-28.2	53.94	-	-	74	-20.06	129	307	V
3	* 2.484	36.01	RMS	32.4	-28.2	40.21	54	-13.79	-	-	129	307	V
4	* 2.484	37.03	RMS	32.4	-28.2	41.23	54	-12.77	-	-	129	307	V

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

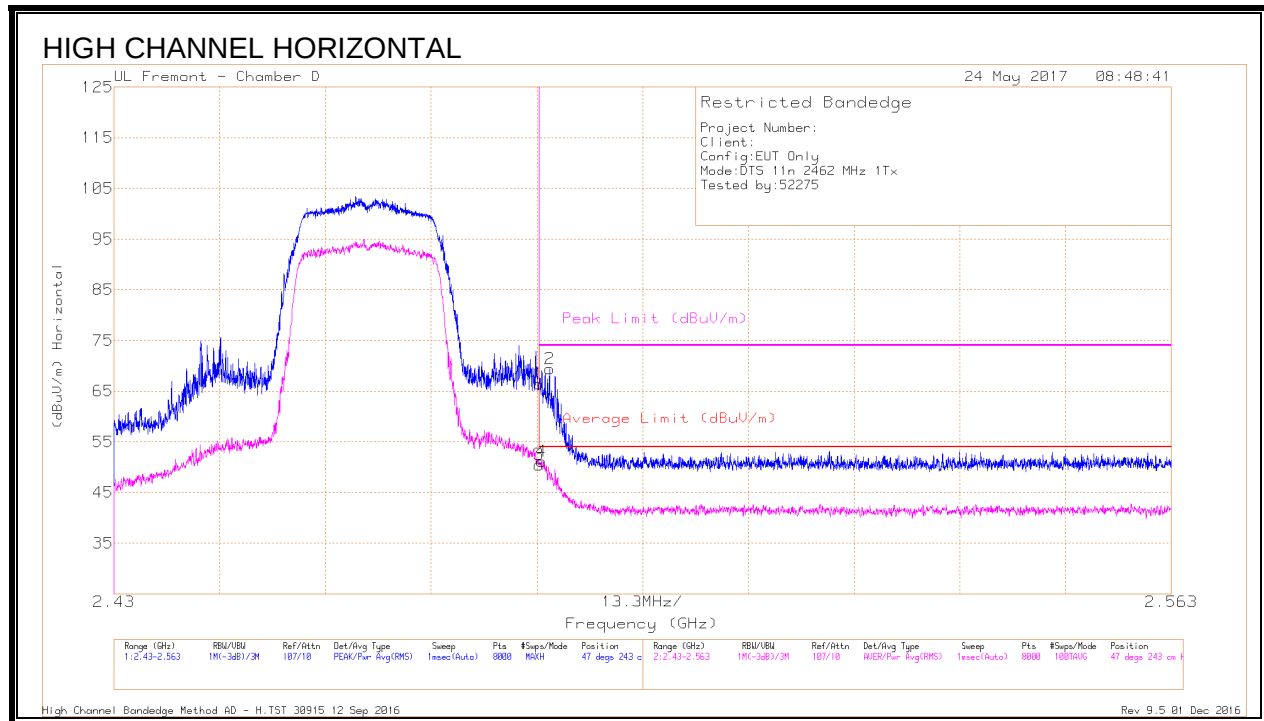
Pk - Peak detector

RMS - RMS detection

High Channel Bandedge Method AD - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 11)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (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	54.71	Pk	32.5	-20.8	66.41	-	-	74	-7.59	47	243	H
2	* 2.485	57.66	Pk	32.5	-20.8	69.36	-	-	74	-4.64	47	243	H
3	* 2.484	38.78	RMS	32.5	-20.8	50.48	54	-3.52	-	-	47	243	H
4	* 2.484	39.5	RMS	32.5	-20.8	51.2	54	-2.8	-	-	47	243	H

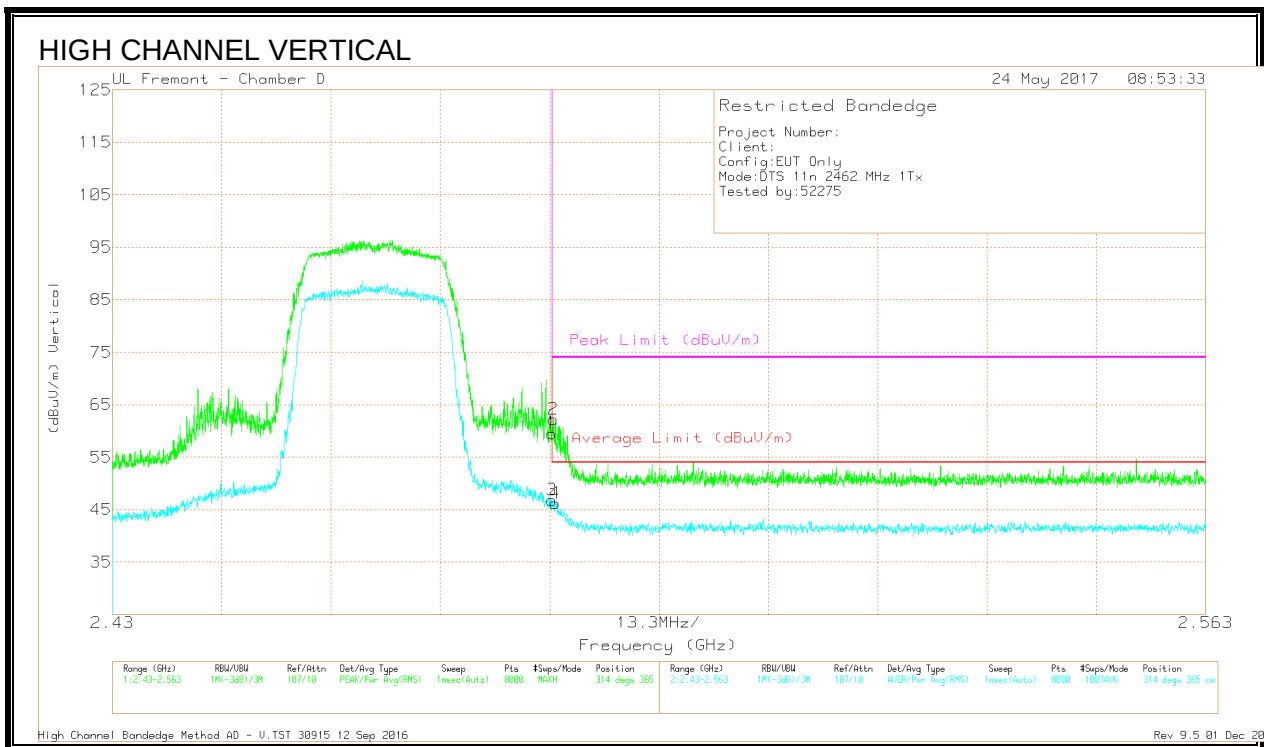
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

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

Rev 9.5 01 Dec 2016



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (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	47.84	Pk	32.5	-20.8	59.54	-	-	74	-14.46	314	365	V
2	* 2.484	50.47	Pk	32.5	-20.8	62.17	-	-	74	-11.83	314	365	V
3	* 2.484	35.06	RMS	32.5	-20.8	46.76	54	-7.24	-	-	314	365	V
4	* 2.484	34.49	RMS	32.5	-20.8	46.19	54	-7.81	-	-	314	365	V

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

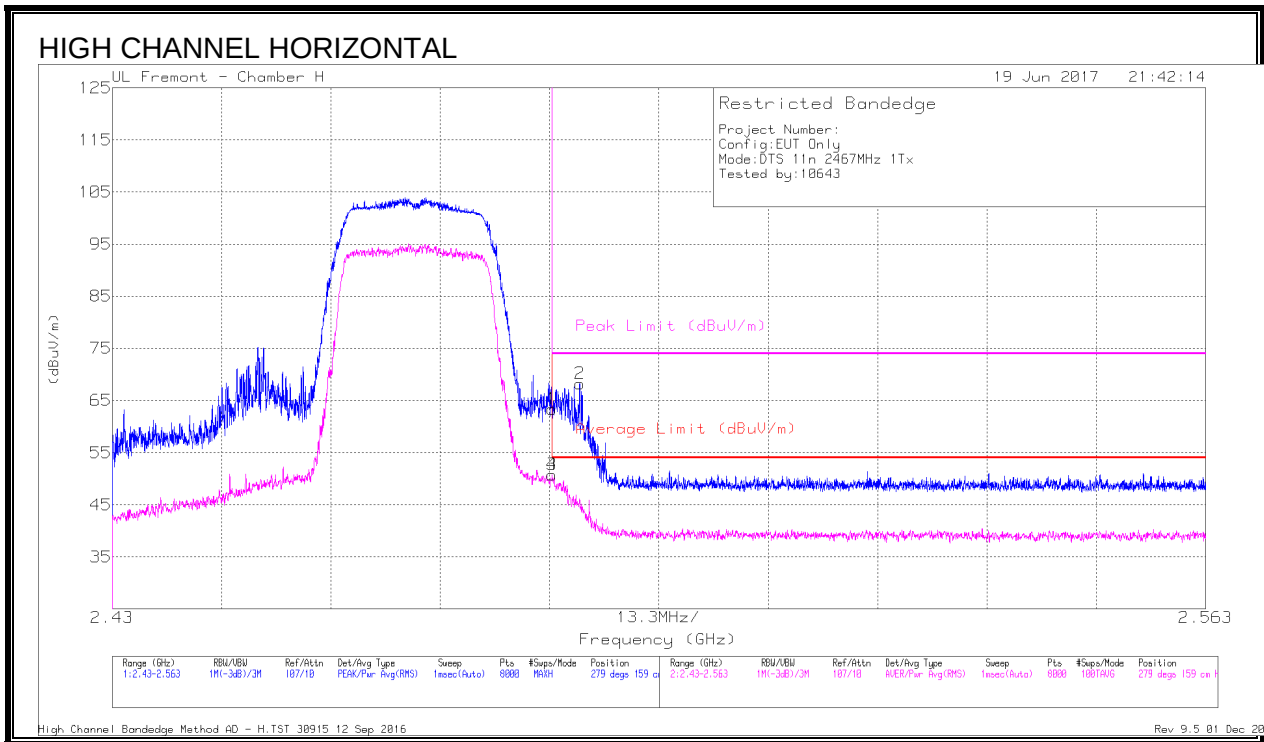
Pk - Peak detector

RMS - RMS detection

High Channel Bandedge Method AD - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 12)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT344 (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	59.12	Pk	32.4	-28.2	63.32	-	-	74	-10.68	279	159	H
3	* 2.484	46.55	RMS	32.4	-28.2	50.75	54	-3.25	-	-	279	159	H
4	* 2.484	46.59	RMS	32.4	-28.2	50.79	54	-3.21	-	-	279	159	H
2	* 2.487	64.07	Pk	32.4	-28.2	68.27	-	-	74	-5.73	279	159	H

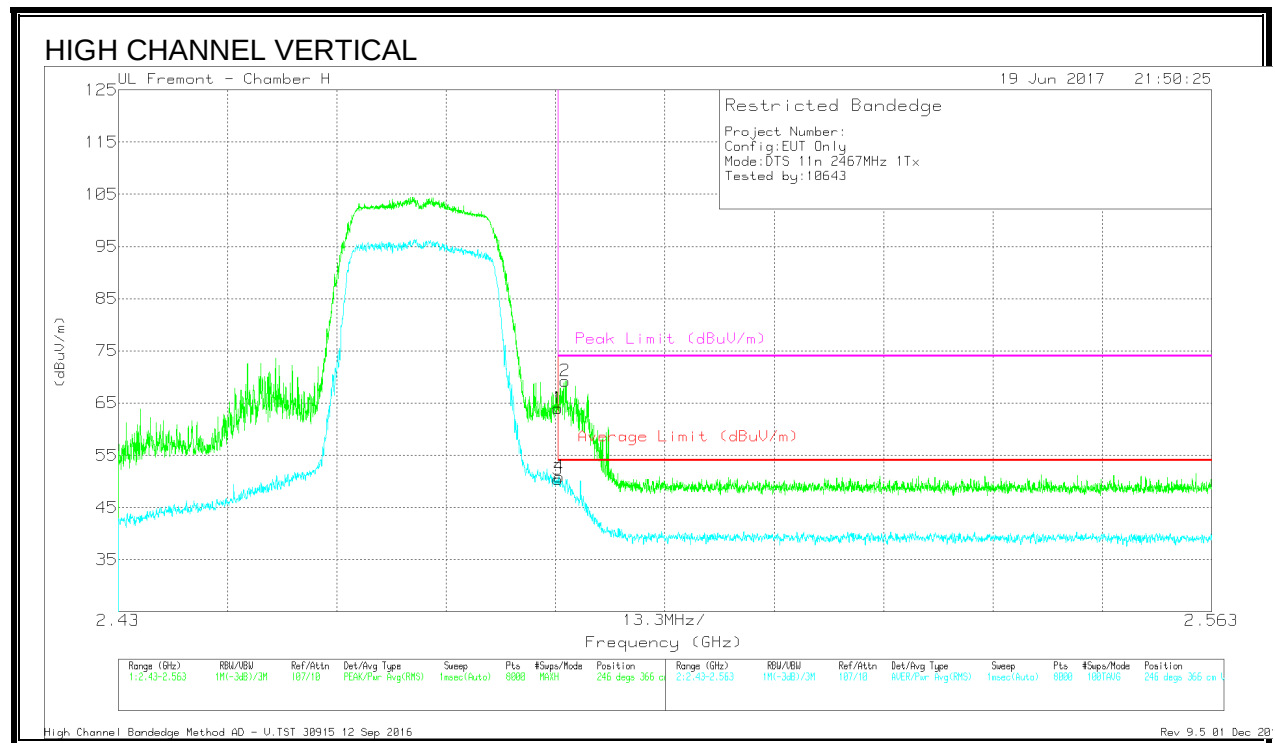
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

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

Rev 9.5 01 Dec 2016



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	59.77	Pk	32.4	-28.2	63.97	-	-	74	-10.03	246	366	V
2	* 2.484	65.02	Pk	32.4	-28.2	69.22	-	-	74	-4.78	246	366	V
3	* 2.484	46.18	RMS	32.4	-28.2	50.38	54	-3.62	-	-	246	366	V
4	* 2.484	46.74	RMS	32.4	-28.2	50.94	54	-3.06	-	-	246	366	V

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

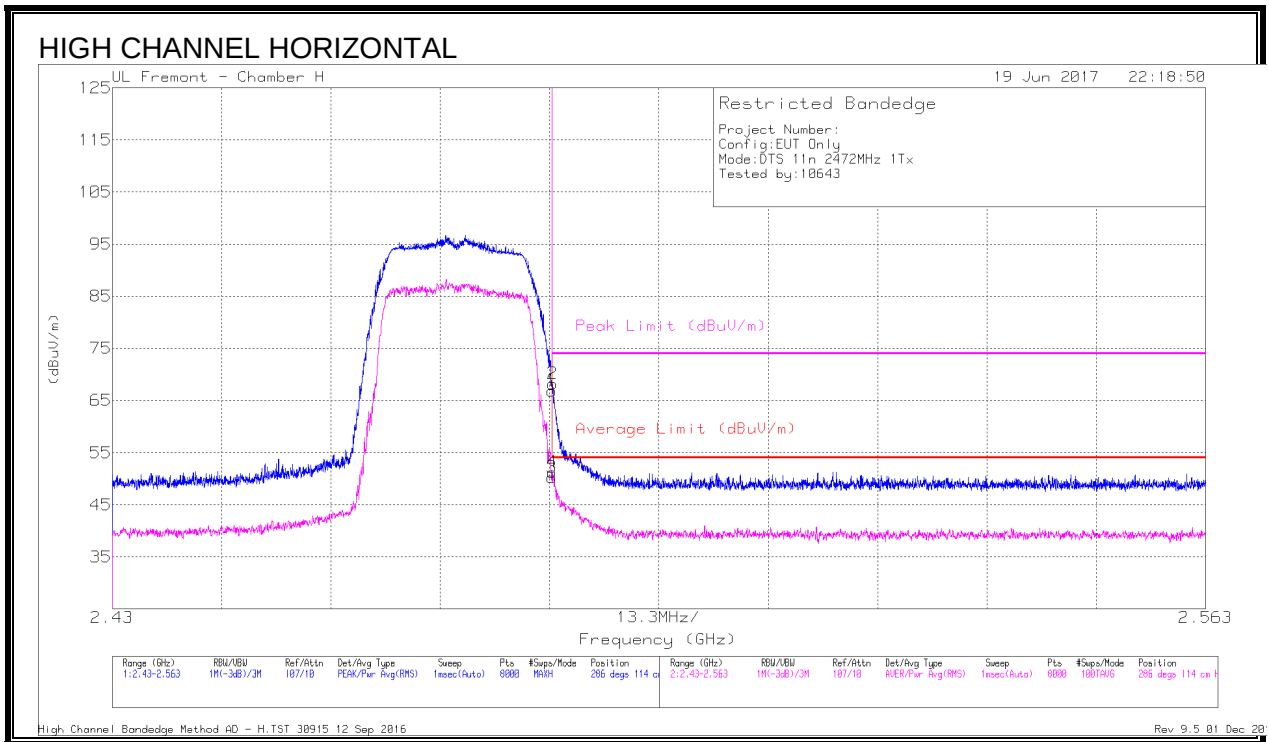
Pk - Peak detector

RMS - RMS detection

High Channel Bandedge Method AD - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 13)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT344 (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	62.72	Pk	32.4	-28.2	66.92	-	-	74	-7.08	286	114	H
2	* 2.484	64.01	Pk	32.4	-28.2	68.21	-	-	74	-5.79	286	114	H
3	* 2.484	46.12	RMS	32.4	-28.2	50.32	54	-3.68	-	-	286	114	H
4	* 2.484	47.04	RMS	32.4	-28.2	51.24	54	-2.76	-	-	286	114	H

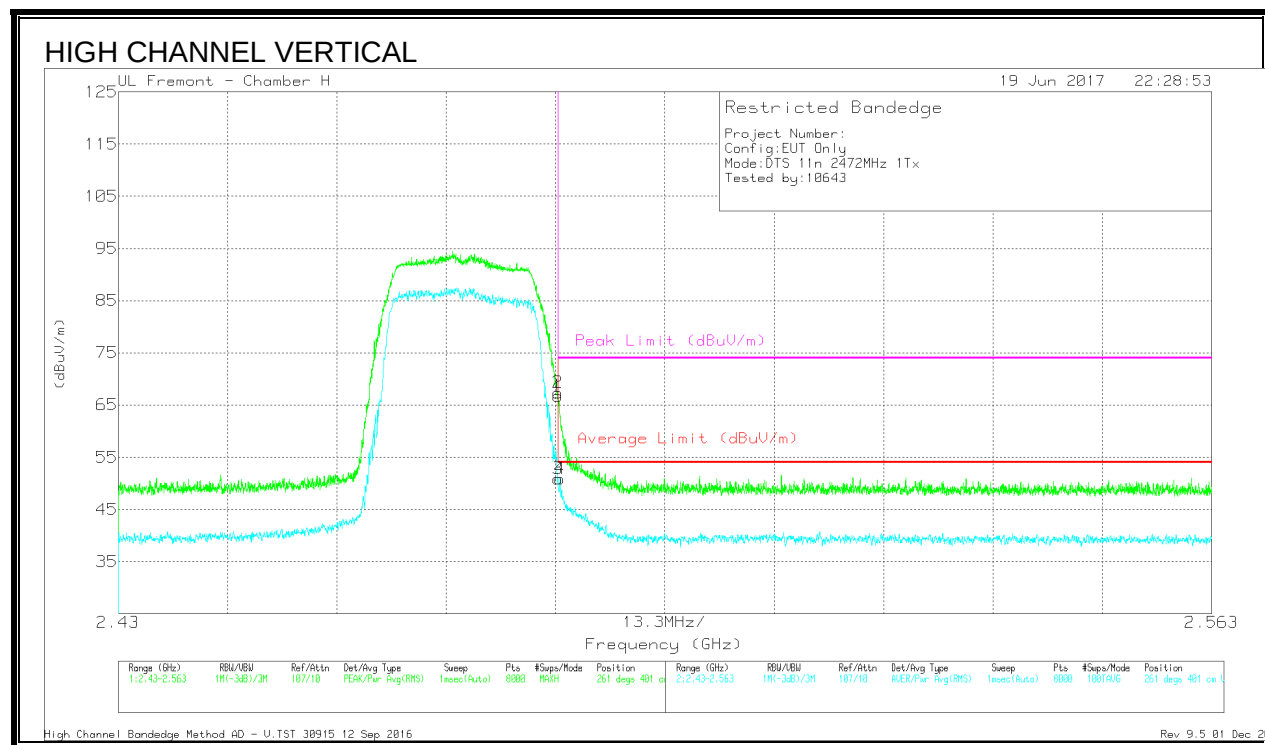
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

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

Rev 9.5 01 Dec 2016



Marker	Frequ ncy (GHz)	Meter Readin g (dBuV)	Det	AF T344 (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	62.57	Pk	32.4	-28.2	66.77	-	-	74	-7.23	261	401	V
2	* 2.484	63.11	Pk	32.4	-28.2	67.31	-	-	74	-6.69	261	401	V
3	* 2.484	46.72	RMS	32.4	-28.2	50.92	54	-3.08	-	-	261	401	V
4	* 2.484	46.69	RMS	32.4	-28.2	50.89	54	-3.11	-	-	261	401	V

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

Pk - Peak detector

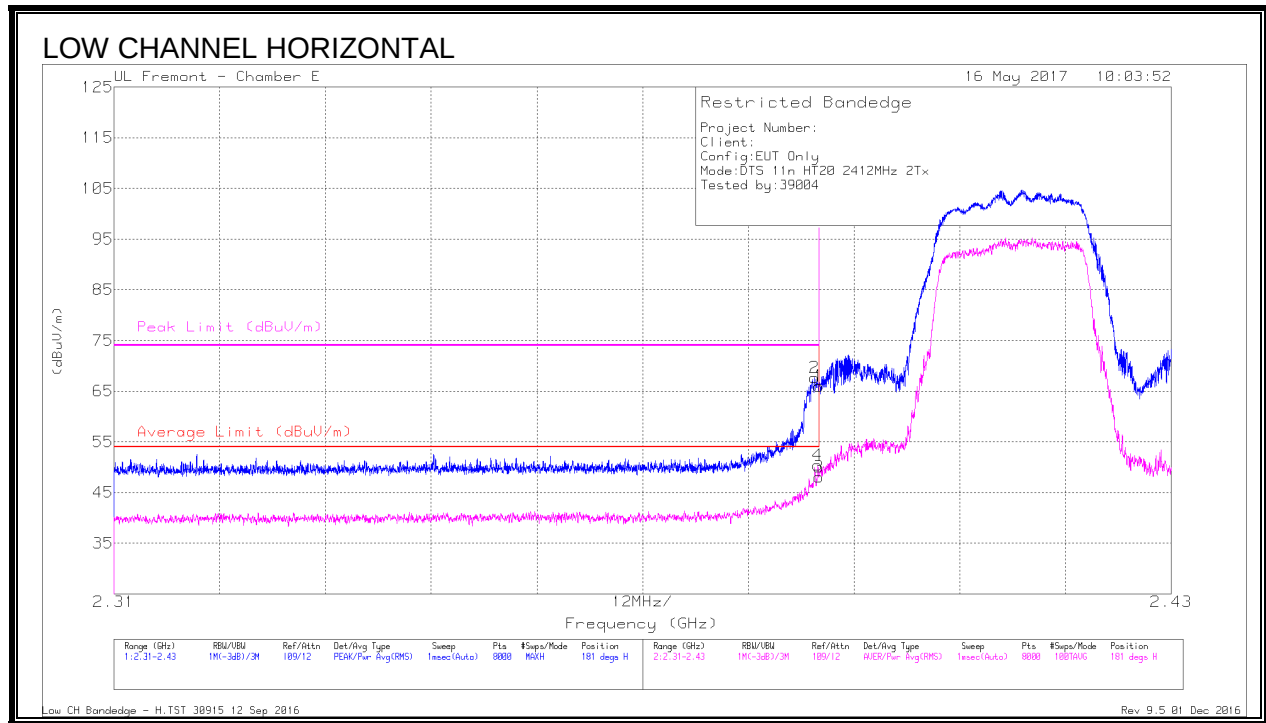
RMS - RMS detection

High Channel Bandedge Method AD - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

9.2.5. 11n HT20 2TX CDD MIMO MODE IN THE 2.4GHz BAND

AUTHORIZED BANDEDGE (LOW CHANNEL, CH 1)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	53.5	Pk	32.2	-19.7	66	-	-	74	-8	181	306	H
2	* 2.39	55.12	Pk	32.2	-19.7	67.62	-	-	74	-6.38	181	306	H
3	* 2.39	35.55	RMS	32.2	-19.7	48.05	54	-5.95	-	-	181	306	H
4	* 2.39	37.92	RMS	32.2	-19.7	50.42	54	-3.58	-	-	181	306	H

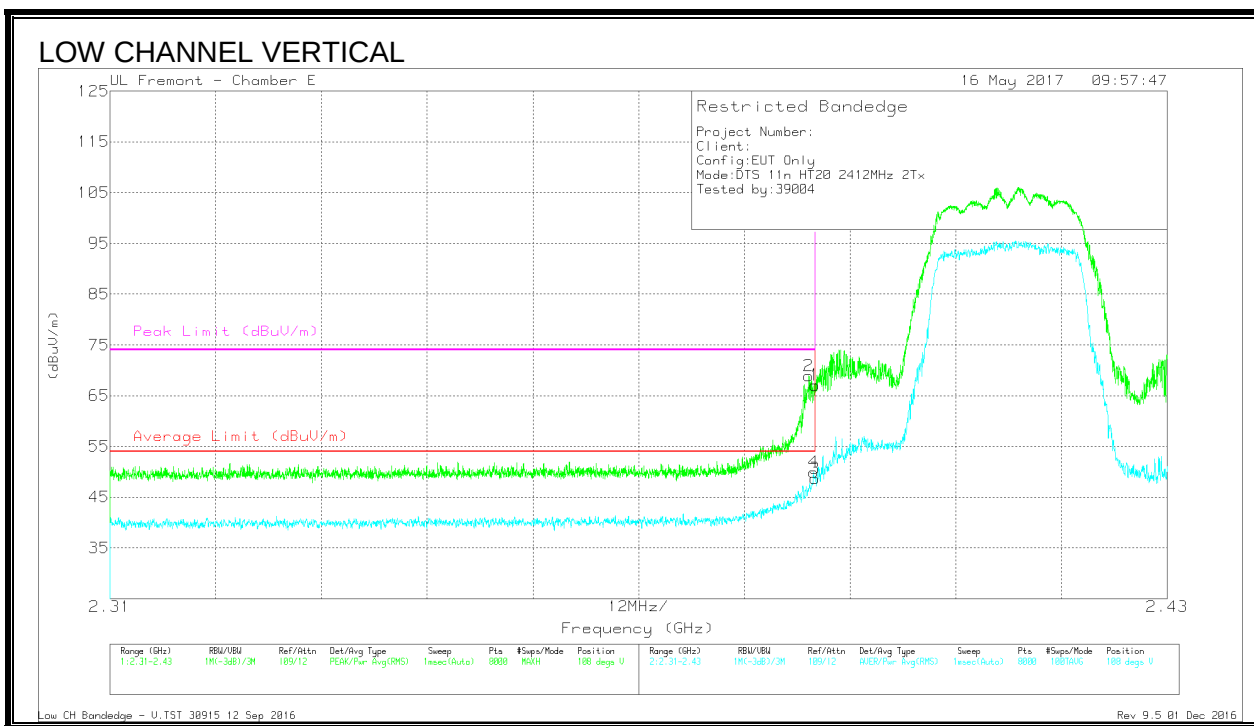
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

Low CH Bandedge - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	* 2.39	54.61	Pk	32.2	-19.7	67.11	-	-	74	-6.89	108	134	V
2	* 2.389	56.43	Pk	32.2	-19.7	68.93	-	-	74	-5.07	108	134	V
3	* 2.39	36.23	RMS	32.2	-19.7	48.73	54	-5.27	-	-	108	134	V
4	* 2.39	37.47	RMS	32.2	-19.7	49.97	54	-4.03	-	-	108	134	V

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

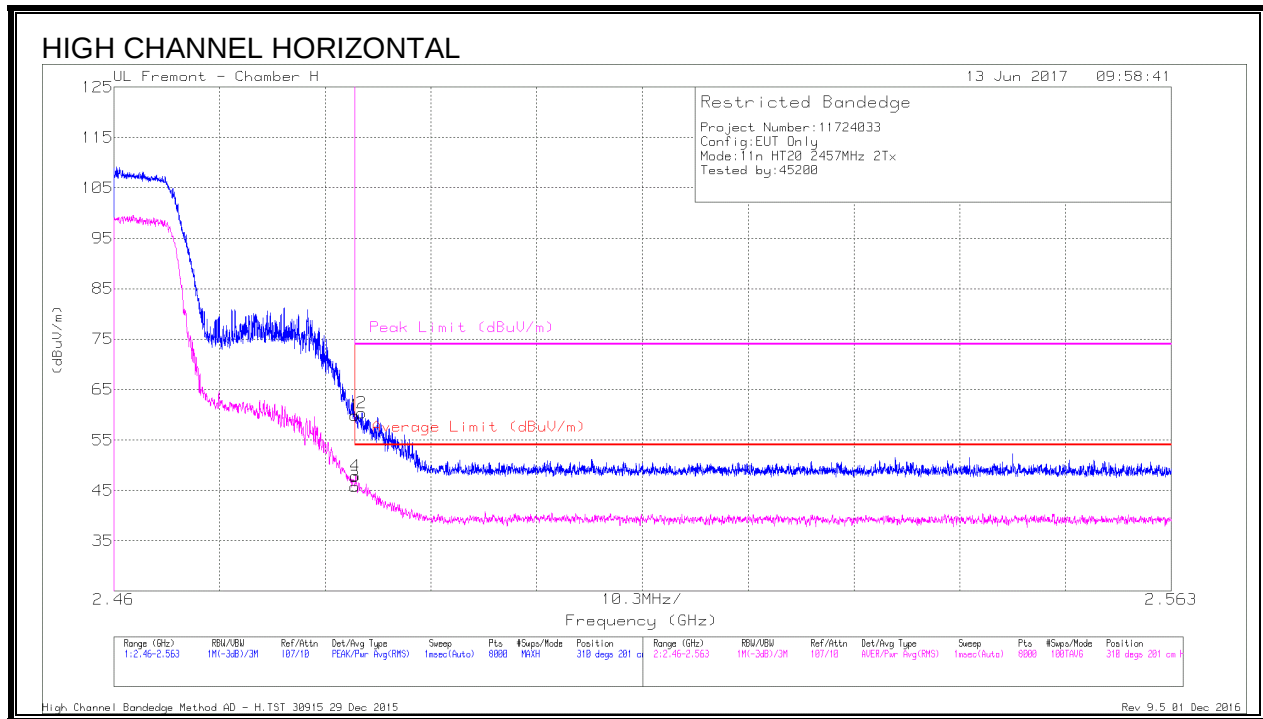
Pk - Peak detector

RMS - RMS detection

Low CH Bandedge - V.TST 30915 12 Sep 2016

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AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 10)



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	55.64	Pk	32.4	-28.2	59.84	-	-	74	-14.16	310	201	H
2	* 2.484	56.16	Pk	32.4	-28.2	60.36	-	-	74	-13.64	310	201	H
3	* 2.484	41.56	RMS	32.4	-28.2	45.76	54	-8.24	-	-	310	201	H
4	* 2.484	43.64	RMS	32.4	-28.2	47.84	54	-6.16	-	-	310	201	H

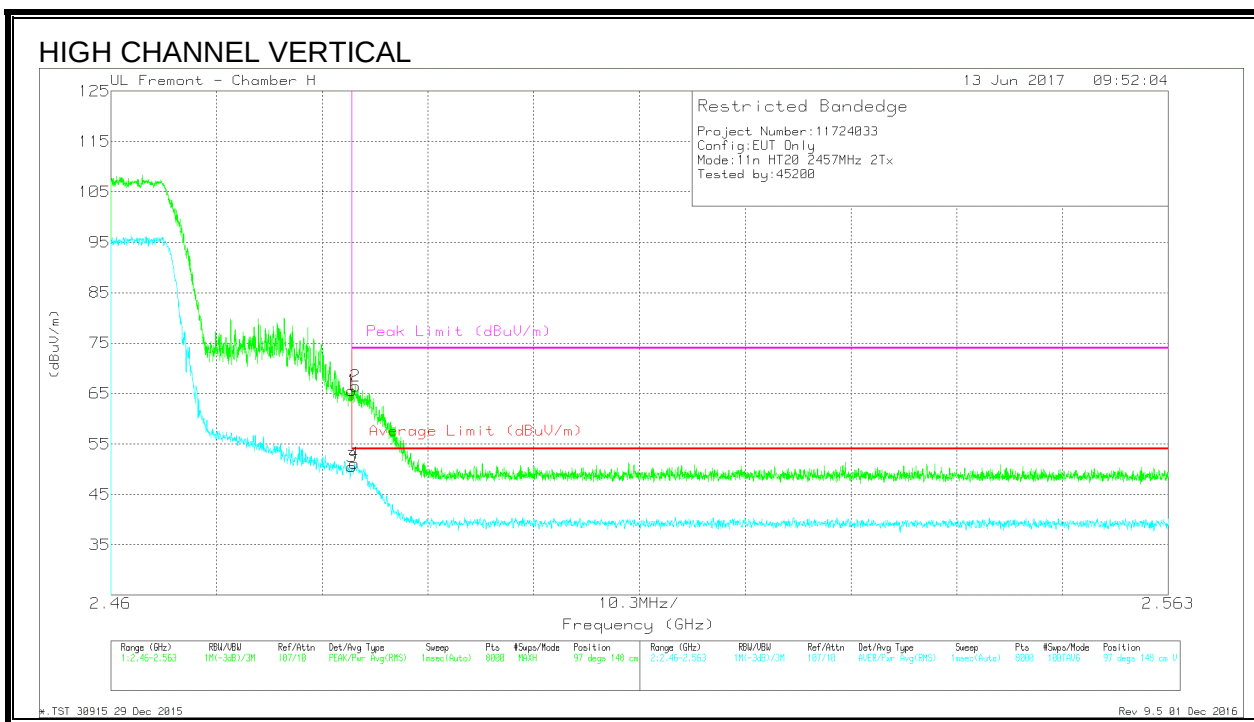
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

High Channel Bandedge Method AD - H.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2016



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (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	61.45	Pk	32.4	-28.2	65.65	-	-	74	-8.35	97	148	V
2	* 2.484	62.31	Pk	32.4	-28.2	66.51	-	-	74	-7.49	97	148	V
3	* 2.484	46.29	RMS	32.4	-28.2	50.49	54	-3.51	-	-	97	148	V
4	* 2.484	46.94	RMS	32.4	-28.2	51.14	54	-2.86	-	-	97	148	V

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

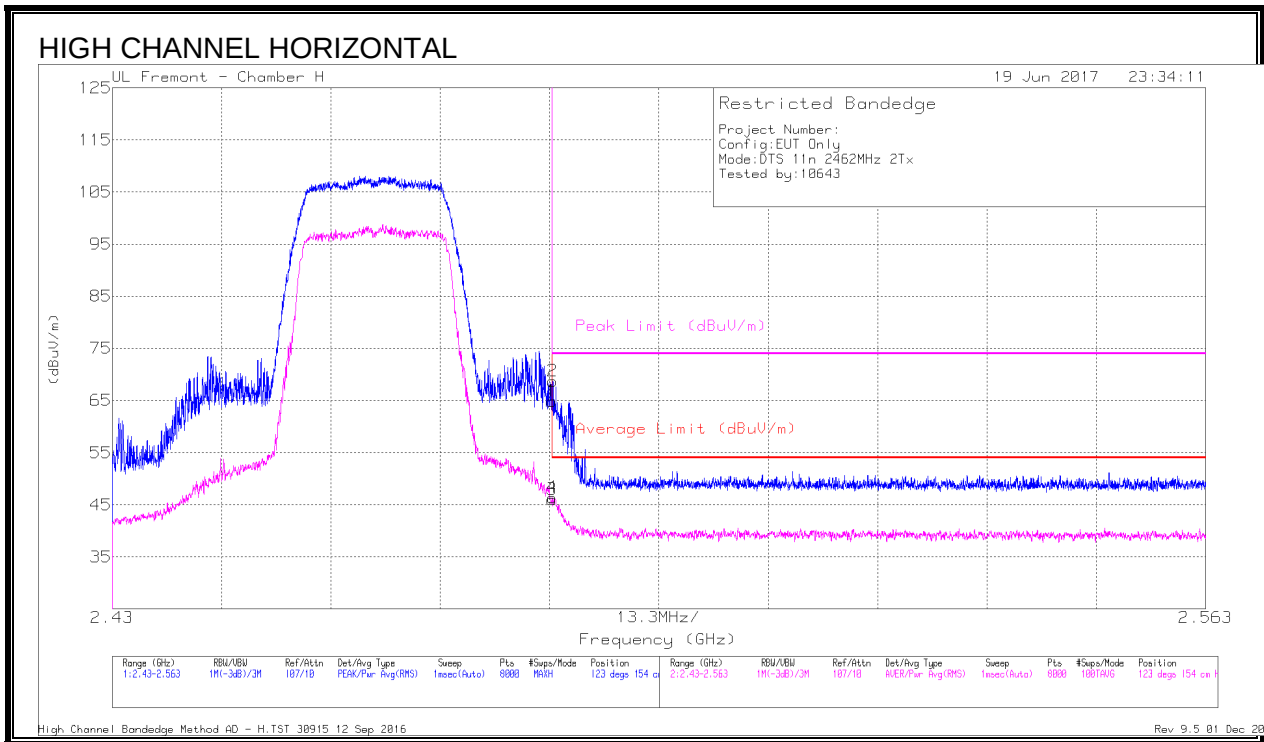
Pk - Peak detector

RMS - RMS detection

*.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2016

AUTHORIZED BANDEGE (HIGH CHANNEL, CH 11)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT344 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	60.72	Pk	32.4	-28.2	64.92	-	-	74	-9.08	123	154	H
2	* 2.484	64.49	Pk	32.4	-28.2	68.69	-	-	74	-5.31	123	154	H
3	* 2.484	41.85	RMS	32.4	-28.2	46.05	54	-7.95	-	-	123	154	H
4	* 2.484	42.21	RMS	32.4	-28.2	46.41	54	-7.59	-	-	123	154	H

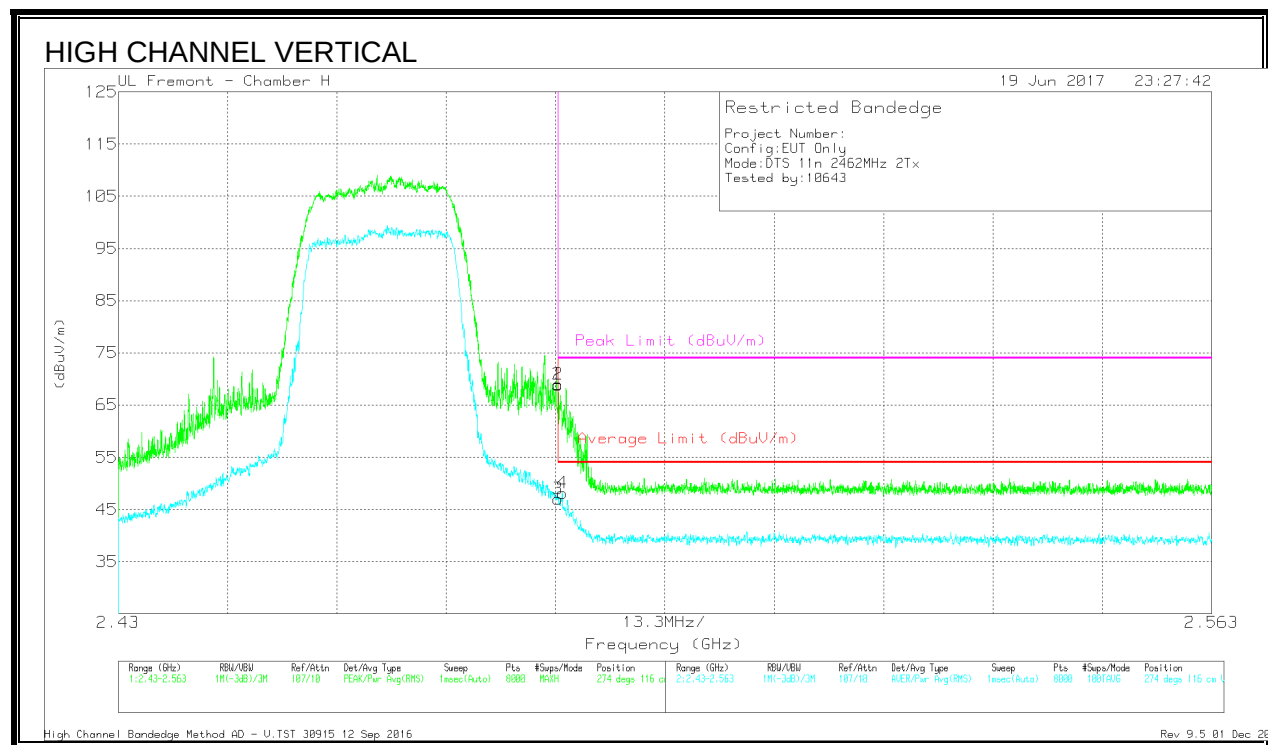
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

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

Rev 9.5 01 Dec 2016



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT344 (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	64.62	Pk	32.4	-28.2	68.82	-	-	74	-5.18	274	116	V
2	* 2.484	64.79	Pk	32.4	-28.2	68.99	-	-	74	-5.01	274	116	V
3	* 2.484	42.85	RMS	32.4	-28.2	47.05	54	-6.95	-	-	274	116	V
4	* 2.484	43.93	RMS	32.4	-28.2	48.13	54	-5.87	-	-	274	116	V

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

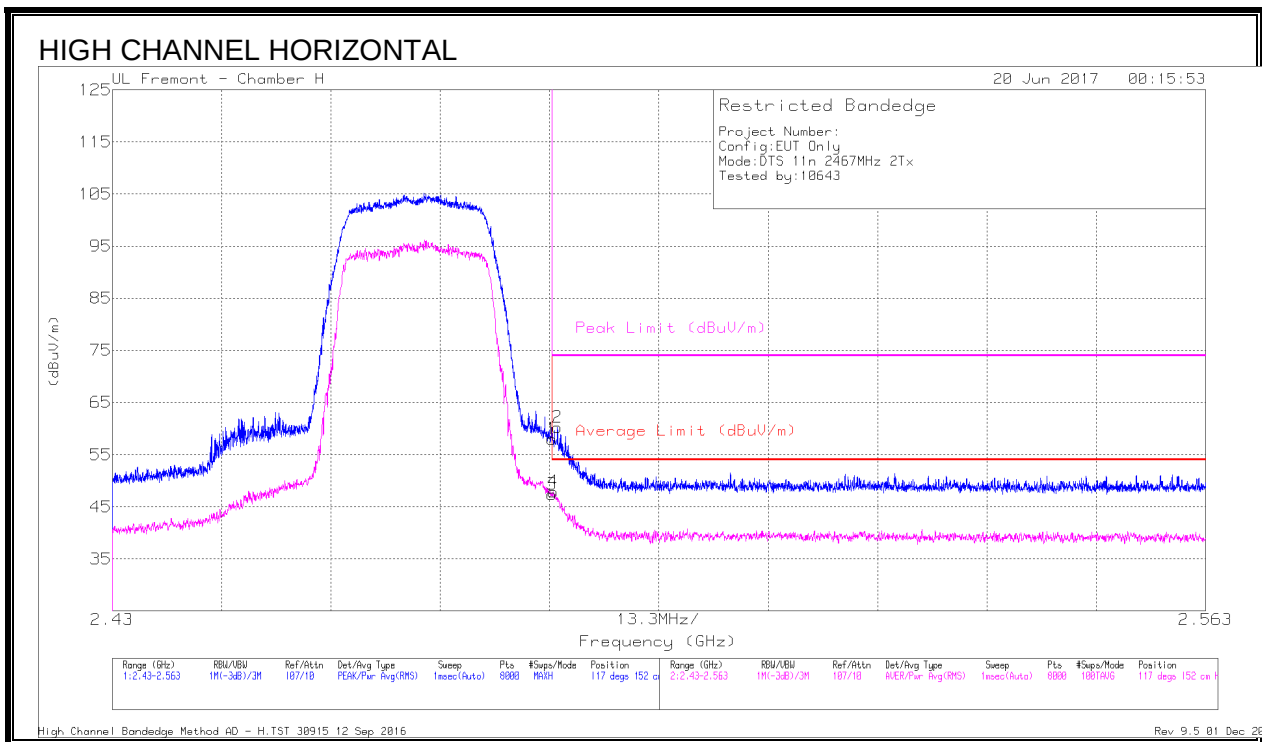
Pk - Peak detector

RMS - RMS detection

High Channel Bandedge Method AD - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 12)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT344 (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	53.76	Pk	32.4	-28.2	57.96	-	-	74	-16.04	117	152	H
2	* 2.484	56.1	Pk	32.4	-28.2	60.3	-	-	74	-13.7	117	152	H
3	* 2.484	43.24	RMS	32.4	-28.2	47.44	54	-6.56	-	-	117	152	H
4	* 2.484	43.73	RMS	32.4	-28.2	47.93	54	-6.07	-	-	117	152	H

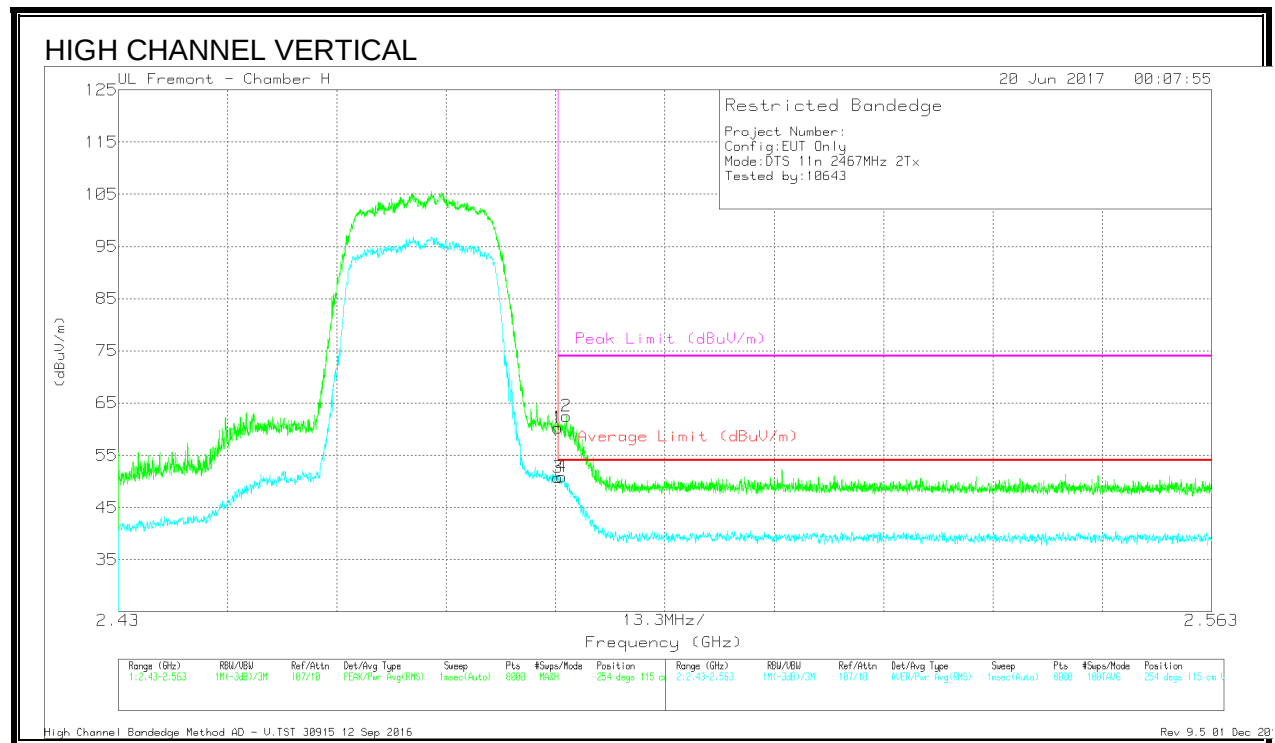
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

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

Rev 9.5 01 Dec 2016



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	56.09	Pk	32.4	-28.2	60.29	-	-	74	-13.71	254	115	V
3	* 2.484	46.59	RMS	32.4	-28.2	50.79	54	-3.21	-	-	254	115	V
4	* 2.484	46.71	RMS	32.4	-28.2	50.91	54	-3.09	-	-	254	115	V
2	* 2.485	58.25	Pk	32.4	-28.2	62.45	-	-	74	-11.55	254	115	V

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

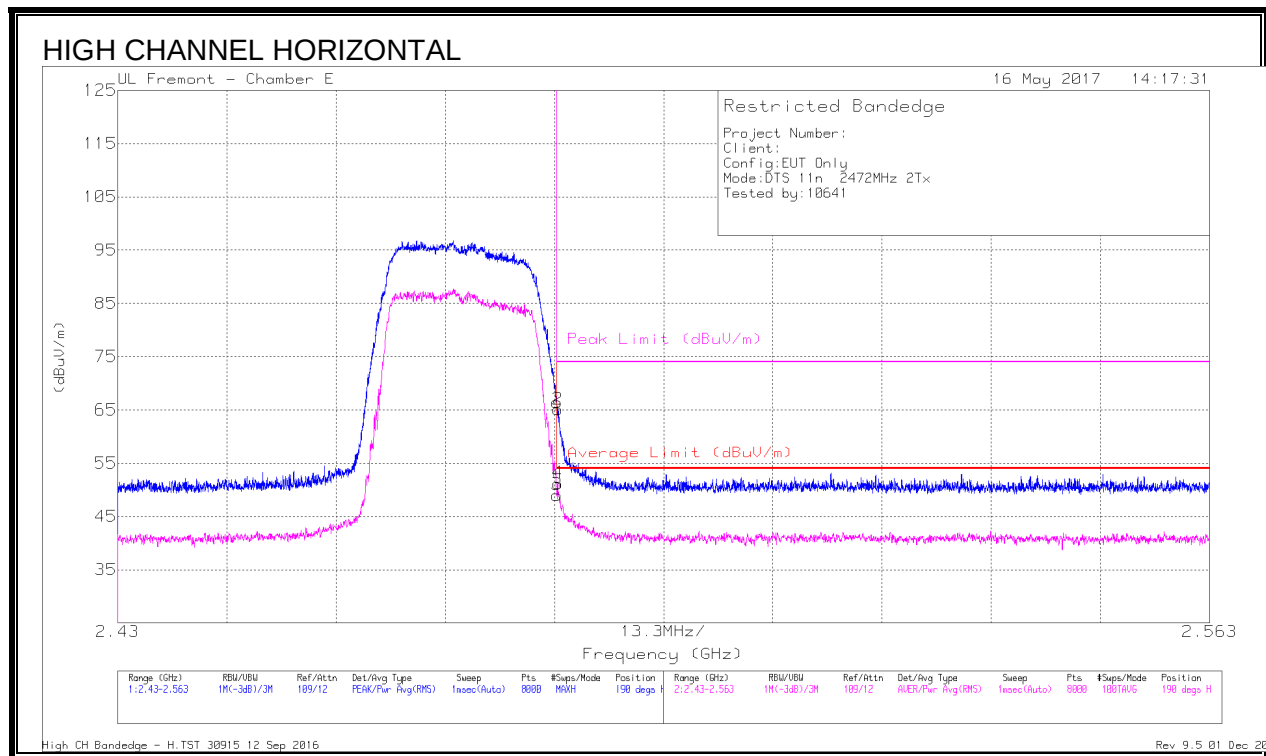
Pk - Peak detector

RMS - RMS detection

High Channel Bandedge Method AD - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

AUTHORIZED BANDEDGE (LOW CHANNEL, CH 13)



Marker	Frequ ncy (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/C bl/Fitr/ Pad (dB)	Correct ed Reading (dBuV/ m)	Average Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimet h (Degs)	Height (cm)	Polarity
1	* 2.484	53.45	Pk	32.7	-19.7	66.45	-	-	74	-7.55	190	234	H
2	* 2.484	52.08	Pk	32.7	-19.7	65.08	-	-	74	-8.92	190	234	H
3	* 2.484	36.04	RMS	32.7	-19.7	49.04	54	-4.96	-	-	190	234	H
4	* 2.484	38.23	RMS	32.7	-19.7	51.23	54	-2.77	-	-	190	234	H

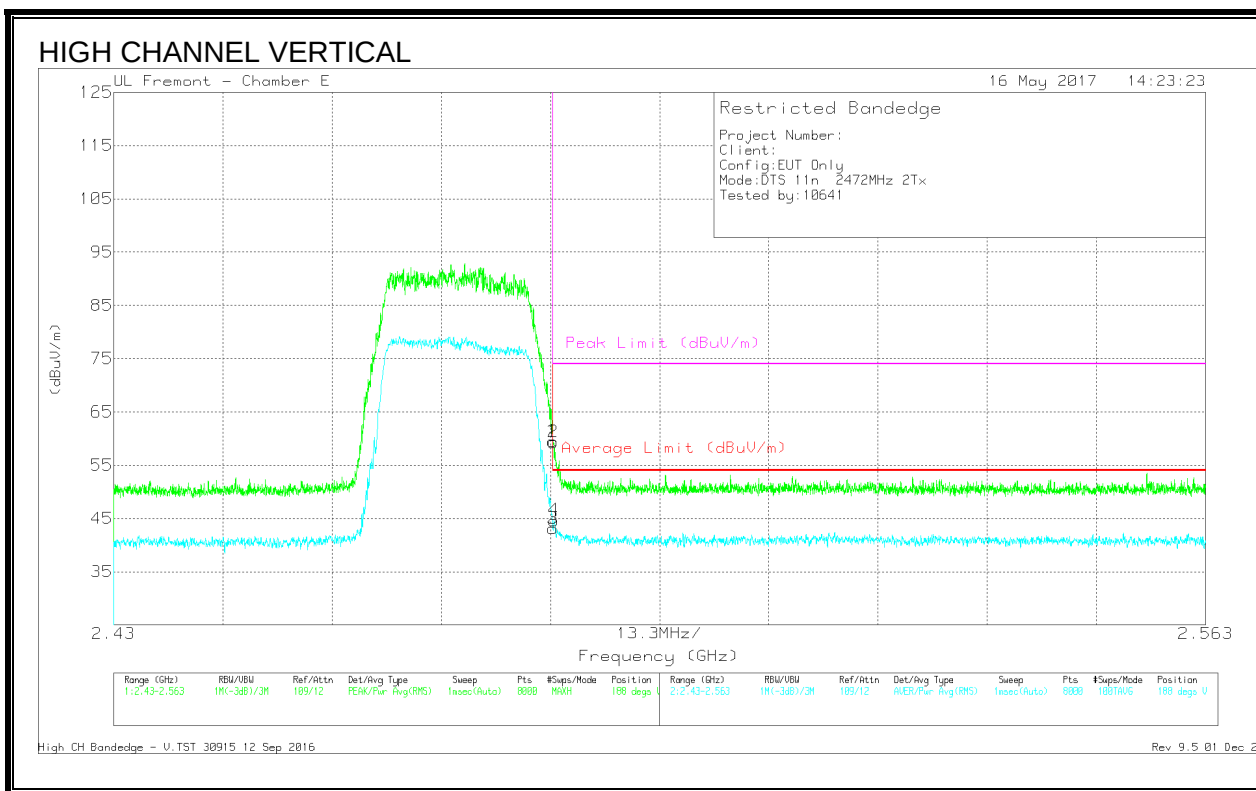
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

High CH Bandedge - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	46.46	Pk	32.7	-19.7	59.46	-	-	74	-14.54	188	234	V
2	* 2.484	46.33	Pk	32.7	-19.7	59.33	-	-	74	-14.67	188	234	V
3	* 2.484	30.1	RMS	32.7	-19.7	43.1	54	-10.9	-	-	188	234	V
4	* 2.484	31.62	RMS	32.7	-19.7	44.62	54	-9.38	-	-	188	234	V

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

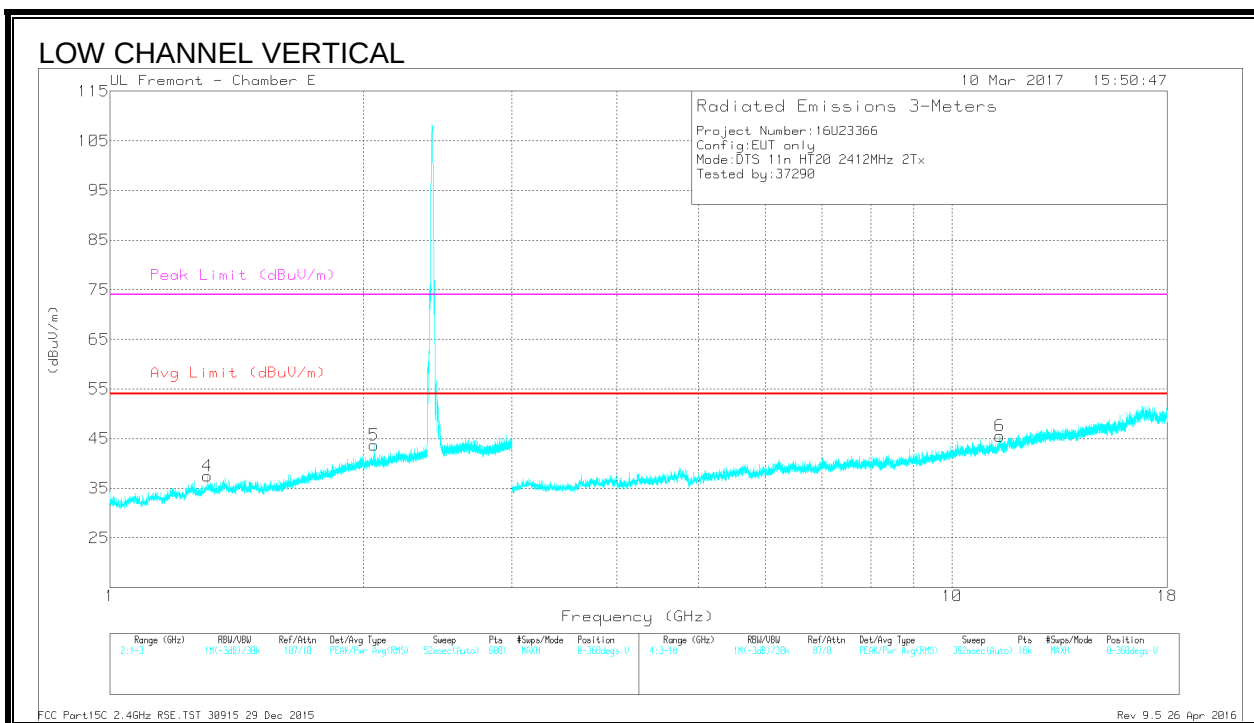
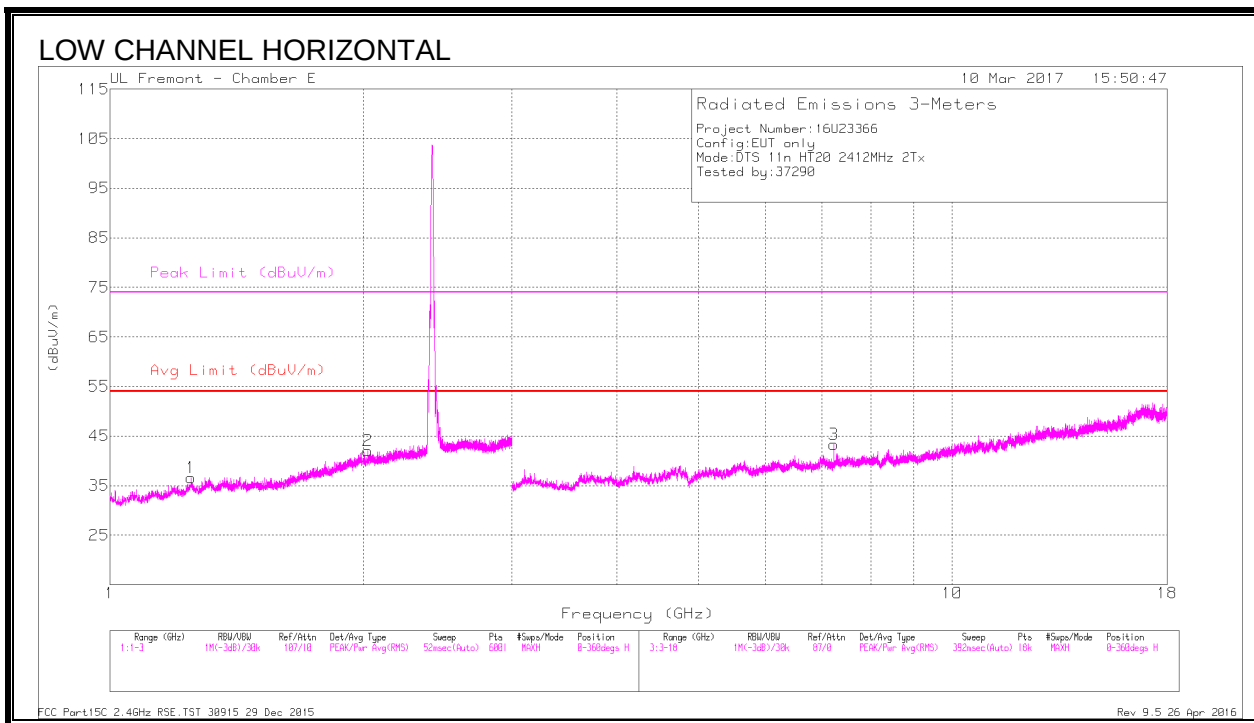
Pk - Peak detector

RMS - RMS detection

High CH Bandedge - V.TST 30915 12 Sep 2016

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HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL, CH 1)



DATA

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.248	36.61	PK2	28.5	-22	43.11	-	-	74	-30.89	0	200	H
* 1.247	23.7	MAv1	28.5	-22	30.2	54	-23.8	-	-	0	200	H
* 1.304	37.29	PK2	28.8	-21.8	44.29	-	-	74	-29.71	0	200	V
* 1.307	23.11	MAv1	28.8	-21.8	30.11	54	-23.89	-	-	0	200	V
* 11.398	36.56	PK2	38	-21.6	52.96	-	-	74	-21.04	0	200	V
* 11.397	24.72	MAv1	38	-21.6	41.12	54	-12.88	-	-	0	200	V
2.026	37.19	PK2	31.4	-20.2	48.39	-	-	-	-	0	200	H
2.059	37.64	PK2	31.4	-20.2	48.84	-	-	-	-	0	101	V
7.235	39.16	PK2	35.8	-27.6	47.36	-	-	-	-	0	200	H

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

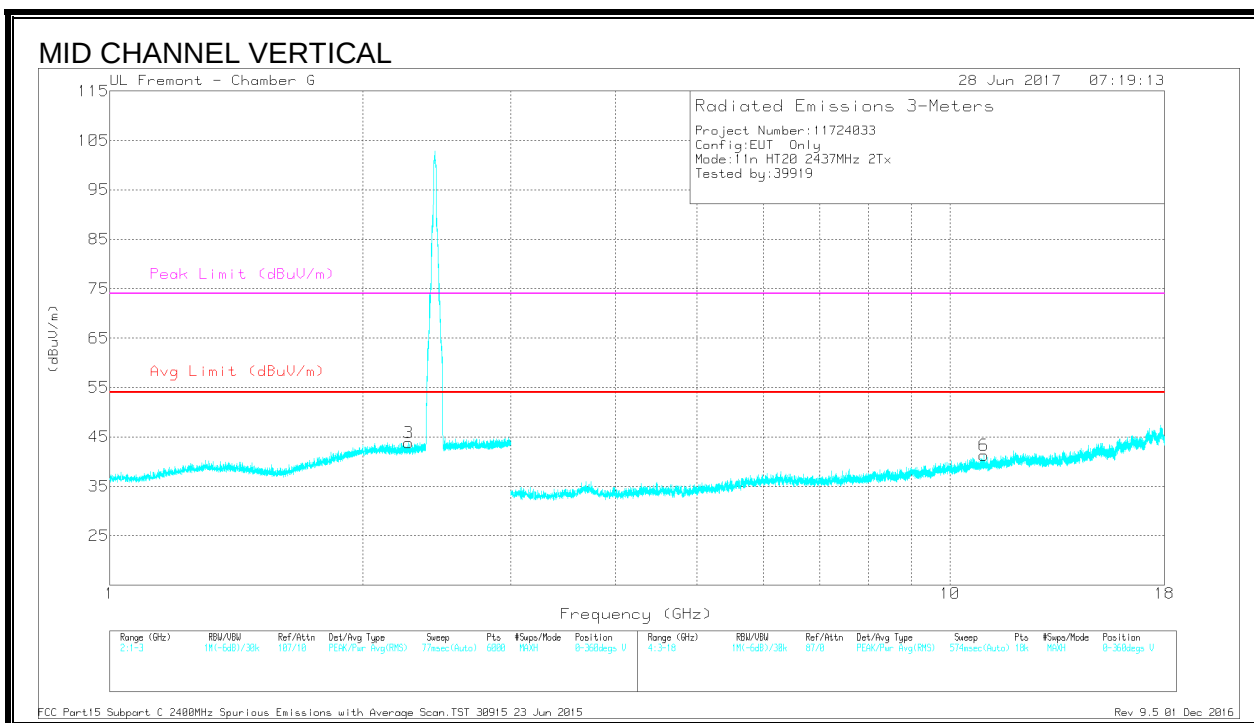
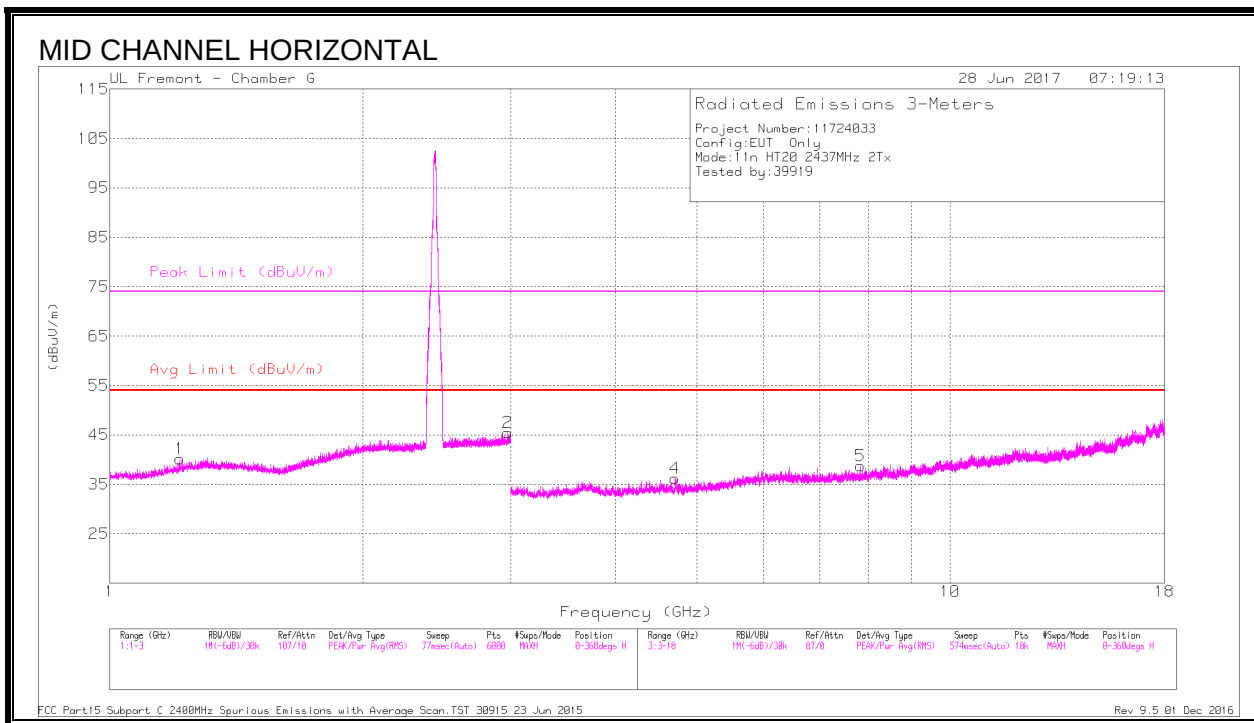
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015

Rev 9.5 26 Apr 2016

HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL, CH 6)



DATA

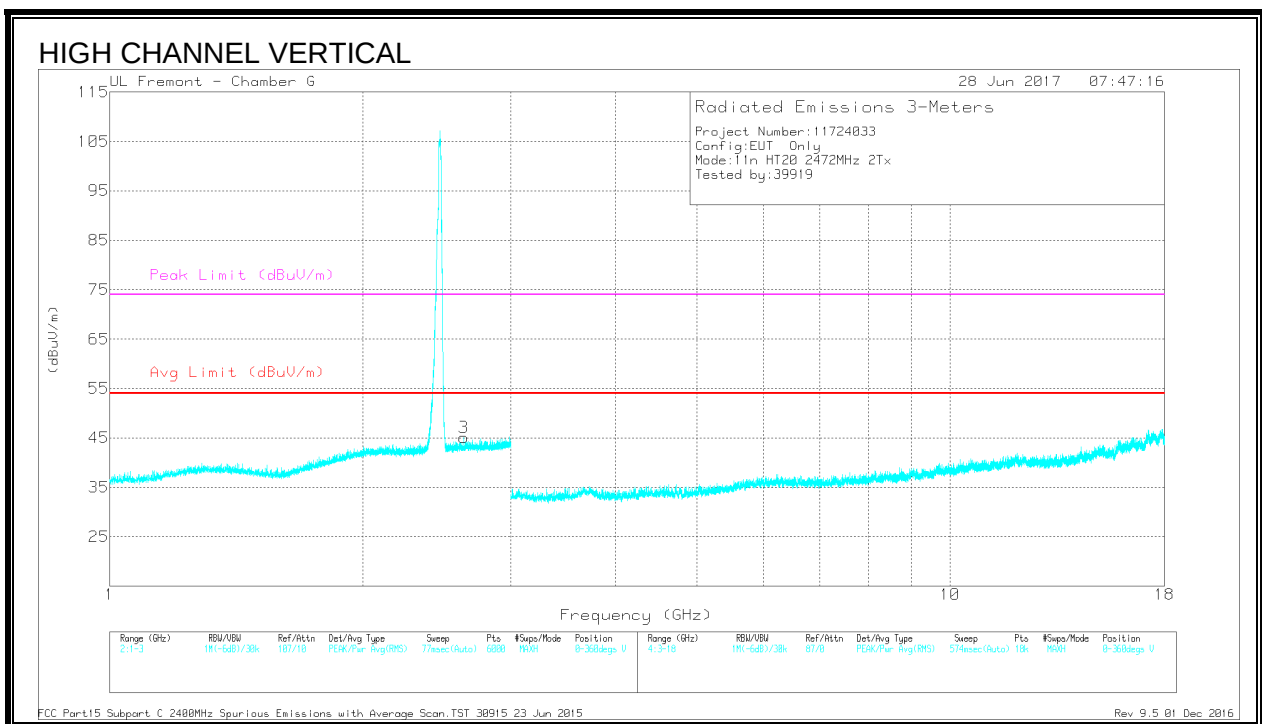
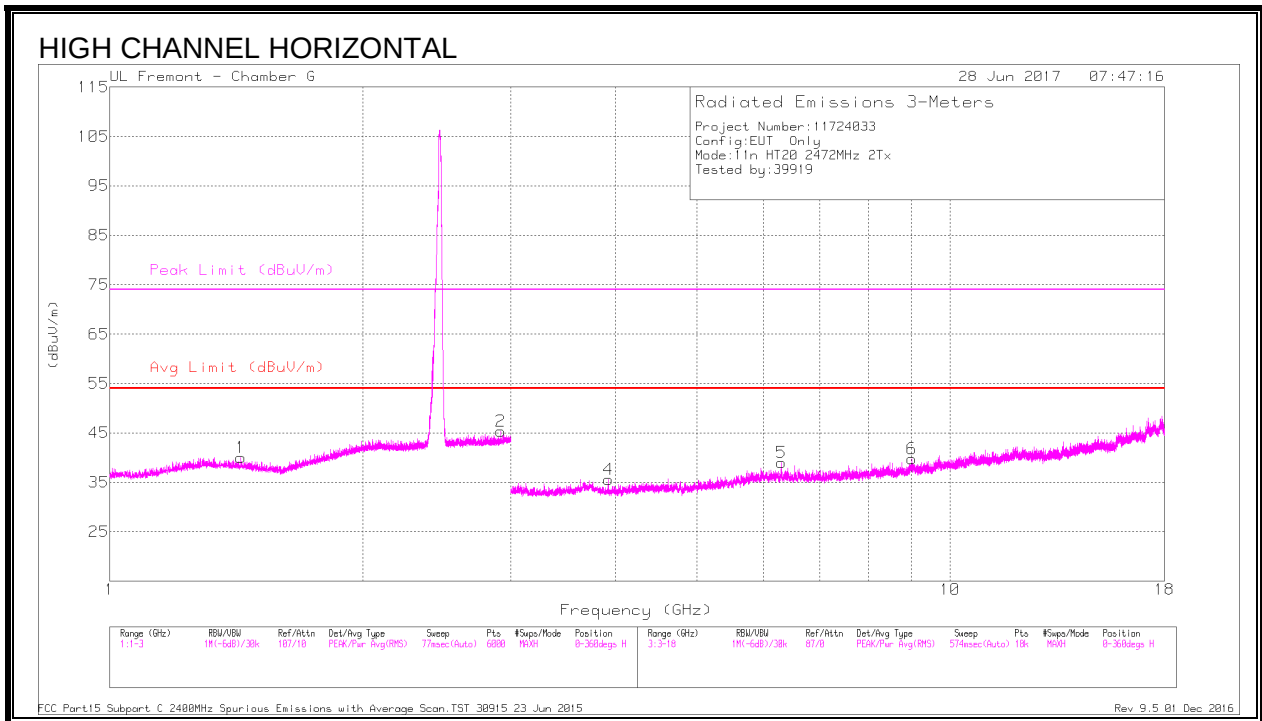
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.212	43.45	PK2	28.2	-25.6	46.05	-	-	74	-27.95	289	201	H
	* 1.209	31.42	MAv1	28.2	-25.6	34.02	54	-19.98	-	-	289	201	H
3	* 2.268	41.21	PK2	31.6	-24.5	48.31	-	-	74	-25.69	336	164	V
	* 2.267	30.36	MAv1	31.6	-24.5	37.46	54	-16.54	-	-	336	164	V
4	* 4.711	39.56	PK2	34	-32	41.56	-	-	74	-32.44	105	102	H
	* 4.711	28.55	MAv1	34	-32	30.55	54	-23.45	-	-	105	102	H
6	* 10.972	34.43	PK2	38	-25.9	46.53	-	-	74	-27.47	123	240	V
	* 10.976	23.47	MAv1	38	-25.8	35.67	54	-18.33	-	-	123	240	V
2	2.977	41.84	PK2	32.6	-23.8	50.64	-	-	74	-23.36	235	222	H
5	7.827	38.03	PK2	35.8	-29.6	44.23	-	-	74	-29.77	165	128	H

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL, CH 13)



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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
4	* 3.92	39.42	PK2	33.6	-32.7	40.32	-	-	74	-33.68	329	179	H
	* 3.918	28.47	MAv1	33.6	-32.8	29.27	54	-24.73	-	-	329	179	H
6	* 9.006	36.07	PK2	36.6	-28	44.67	-	-	74	-29.33	287	102	H
	* 9.005	25.54	MAv1	36.6	-28	34.14	54	-19.86	-	-	287	102	H
1	1.433	43.2	PK2	28.5	-25.2	46.5	-	-	74	-27.5	43	201	H
3	2.637	42.11	PK2	32.3	-24.2	50.21	-	-	74	-23.79	154	222	V
2	2.917	41.16	PK2	32.5	-23.9	49.76	-	-	74	-24.24	209	122	H
5	6.298	38.44	PK2	35.6	-30.5	43.54	-	-	74	-30.46	239	102	H

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

PK2 - KDB558074 Method: Maximum Peak

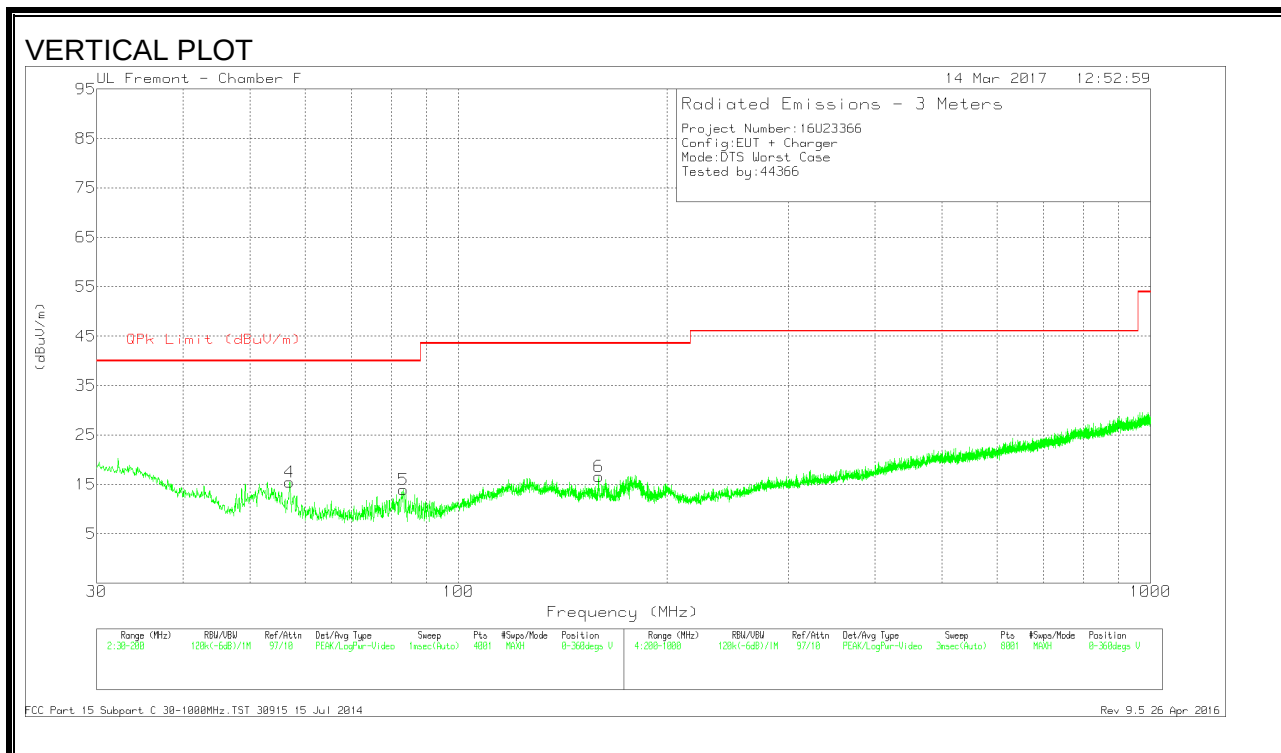
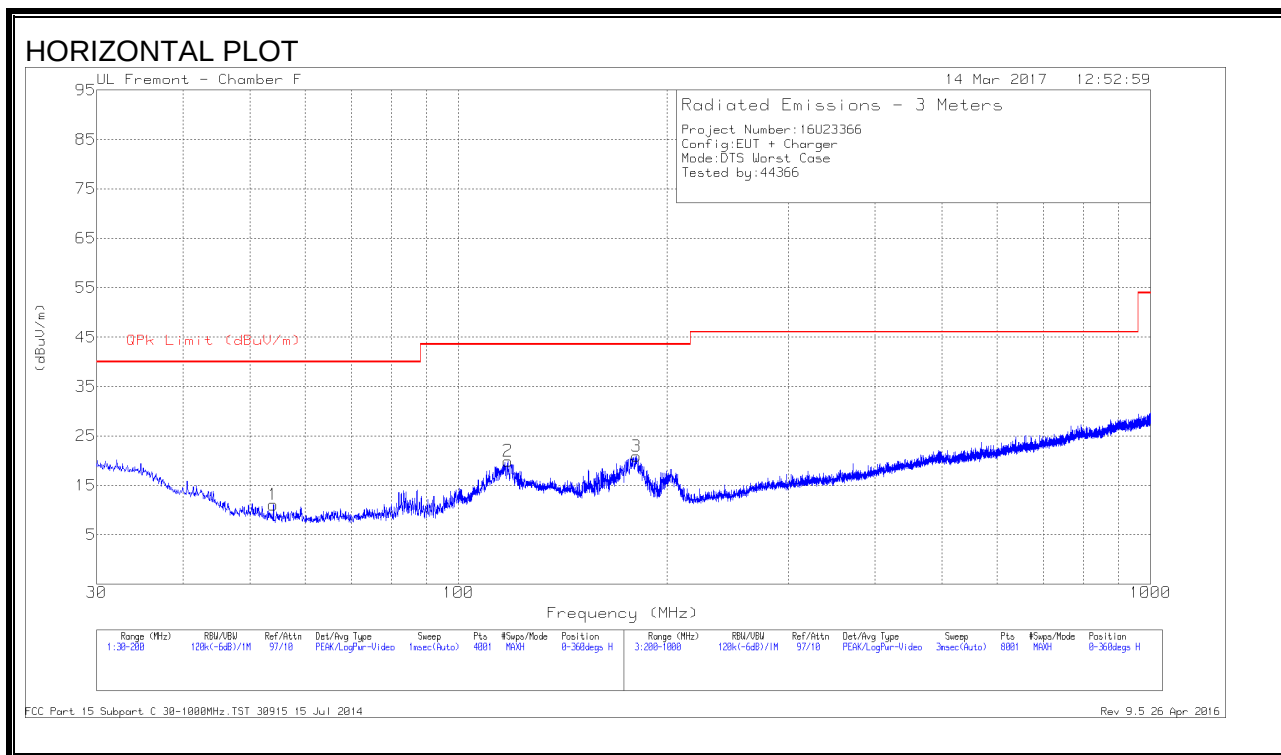
MAv1 - KDB558074 Option 1 Maximum RMS Average

DTS_2.4_HARM_11n_HT20_2472 out of power q88.DAT 30915 29 Dec 2015

Rev 9.5 26 Apr 2016

9.3. WORST-CASE BELOW 1 GHz

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



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T122 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	54.0125	30.67	Pk	12	-31.6	11.07	40	-28.93	0-360	399	H
2	* 117.805	33.35	Pk	17.6	-31	19.95	43.52	-23.57	0-360	299	H
3	180.7475	36.16	Pk	15.3	-30.6	20.86	43.52	-22.66	0-360	199	H
4	57.03	35.25	Pk	11.8	-31.6	15.45	40	-24.55	0-360	100	V
5	83.2525	33.67	Pk	11.7	-31.4	13.97	40	-26.03	0-360	100	V
6	159.37	30.94	Pk	16.4	-30.8	16.54	43.52	-26.98	0-360	100	V

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

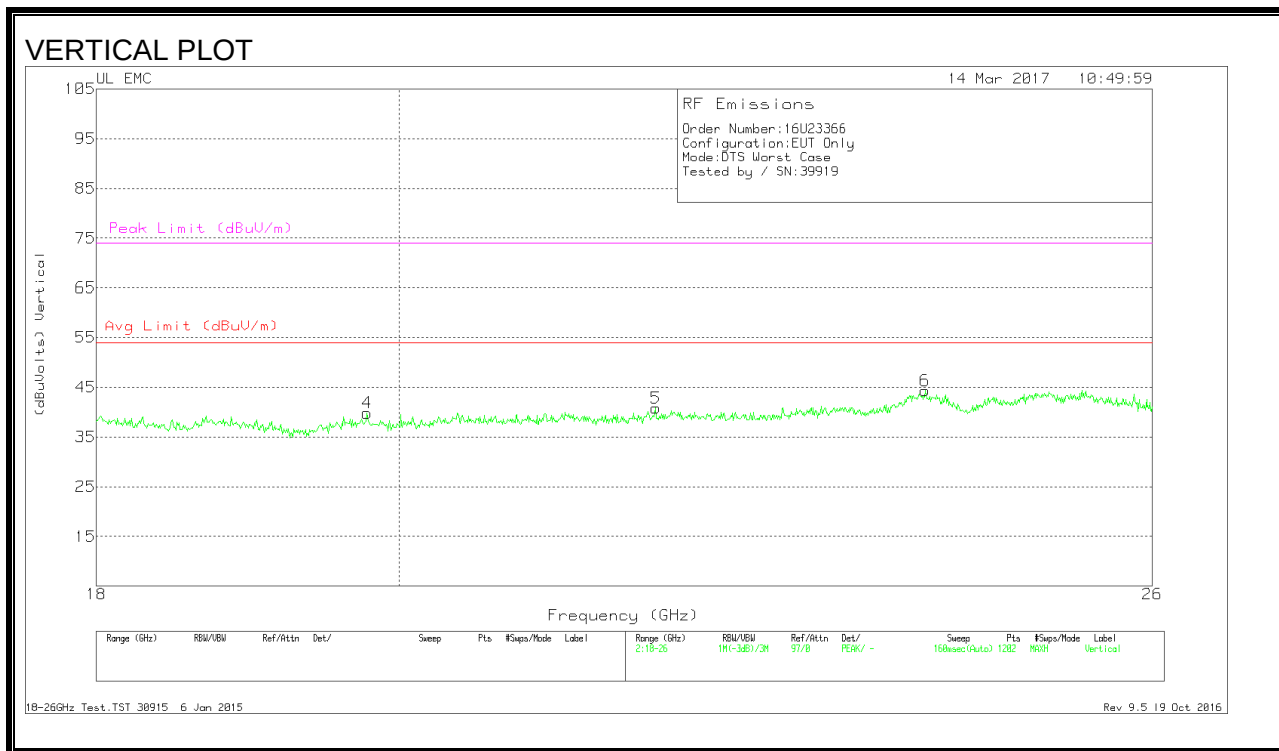
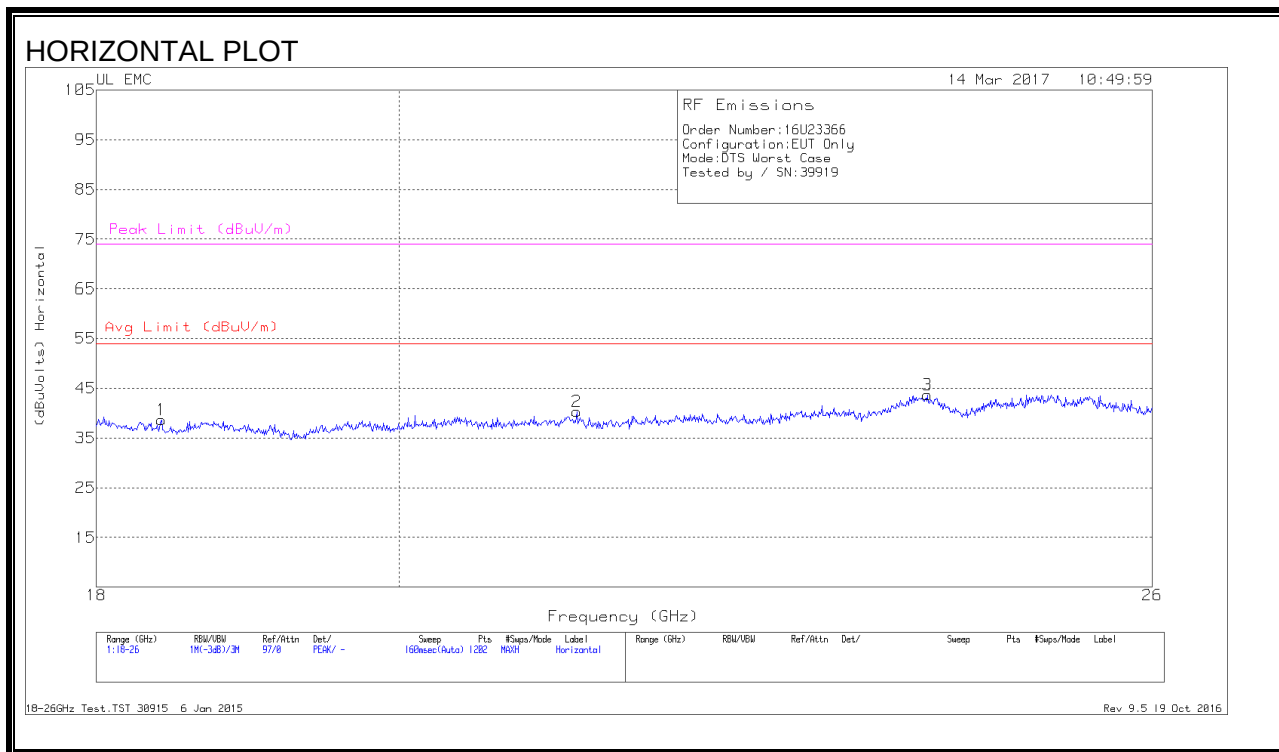
Pk - Peak detector

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

Rev 9.5 26 Apr 2016

9.4. WORST-CASE 18 to 26 GHz

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



DATA

Trace Markers

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	18.413	40.77	Pk	32.5	-25.1	-9.5	38.67	54	-15.33	74	-35.33
2	21.277	42.03	Pk	33.1	-25.3	-9.5	40.33	54	-13.67	74	-33.67
3	24.042	43.67	Pk	34	-24.5	-9.5	43.67	54	-10.33	74	-30.33
4	19.779	41.33	Pk	32.7	-24.7	-9.5	39.83	54	-14.17	74	-34.17
5	21.87	41.73	Pk	33.3	-24.7	-9.5	40.83	54	-13.17	74	-33.17
6	24.022	44.03	Pk	34	-24.2	-9.5	44.33	54	-9.67	74	-29.67

Pk - Peak detector

18-26GHz Test.TST 30915 6 Jan 2015

Rev 9.5 19 Oct 2016

10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dBμV)	
	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

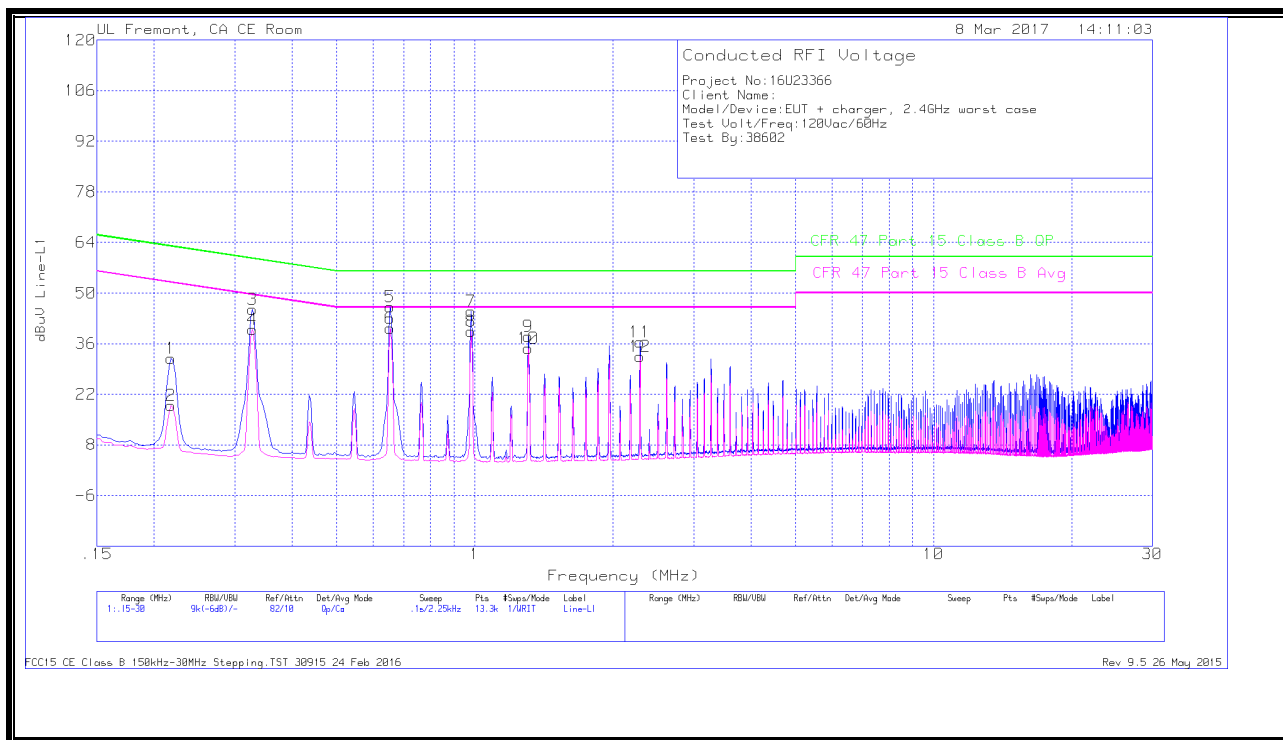
The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

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.

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

LINE 1 RESULTS



WORST EMISSIONS

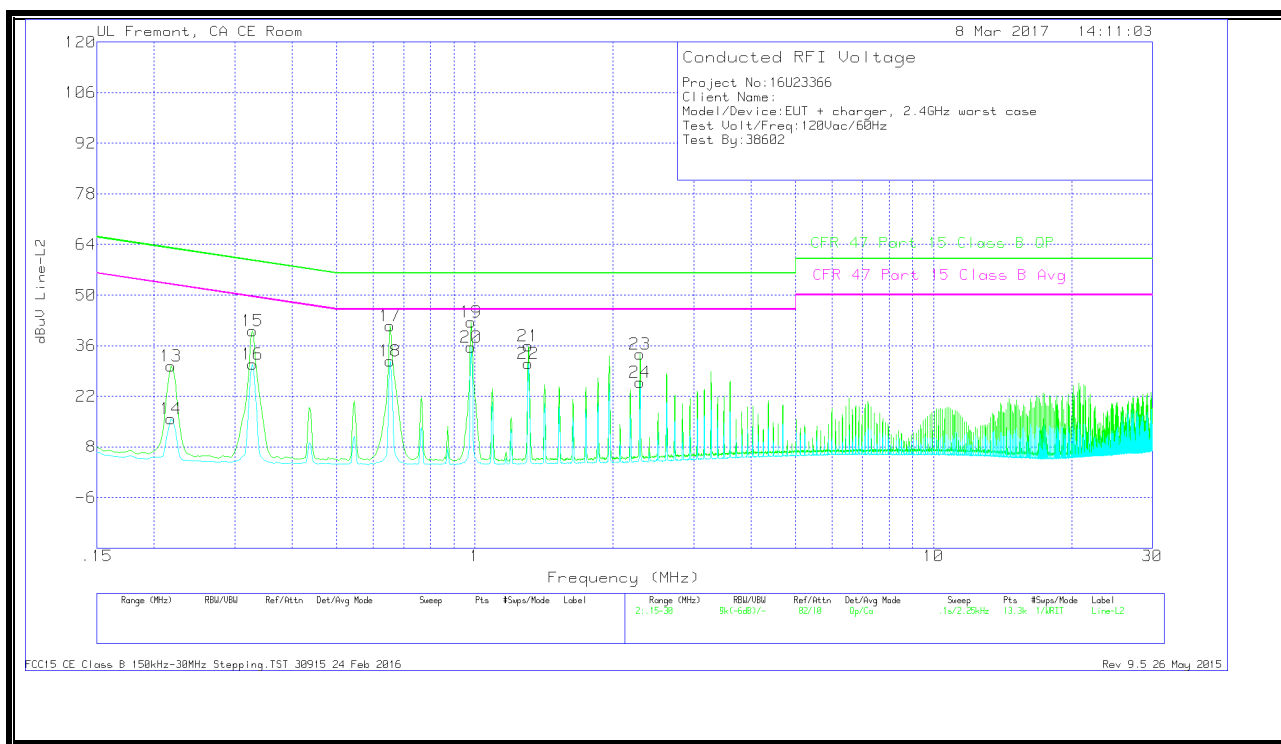
Range 1: Line-L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	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	.2175	21.81	Qp	0	0	10.1	31.91	62.91	-31	-	-
2	.2175	8.77	Ca	0	0	10.1	18.87	-	-	52.91	-34.04
3	.32775	35.24	Qp	0	.1	10.1	45.44	59.51	-14.07	-	-
4	.32775	29.79	Ca	0	.1	10.1	39.99	-	-	49.51	-9.52
5	.654	35.94	Qp	0	.1	10.1	46.14	56	-9.86	-	-
6	.654	30.11	Ca	0	.1	10.1	40.31	-	-	46	-5.69
7	.9825	34.76	Qp	0	.1	10.1	44.96	56	-11.04	-	-
8	.9825	29.12	Ca	0	.1	10.1	39.32	-	-	46	-6.68
9	1.30875	27.76	Qp	0	.1	10.1	37.96	56	-18.04	-	-
10	1.30875	24.5	Ca	0	.1	10.1	34.7	-	-	46	-11.3
11	2.292	26.27	Qp	0	.1	10.1	36.47	56	-19.53	-	-
12	2.292	22.24	Ca	0	.1	10.1	32.44	-	-	46	-13.56

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



WORST EMISSIONS

Range 2: Line-L2 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	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	.2175	20.2	Qp	0	0	10.1	30.3	62.91	-32.61	-	-
14	.2175	5.58	Ca	0	0	10.1	15.68	-	-	52.91	-37.23
15	.32775	29.95	Qp	0	.1	10.1	40.15	59.51	-19.36	-	-
16	.32775	20.6	Ca	0	.1	10.1	30.8	-	-	49.51	-18.71
17	.654	31.24	Qp	0	.1	10.1	41.44	56	-14.56	-	-
18	.654	21.57	Ca	0	.1	10.1	31.77	-	-	46	-14.23
19	.9825	32.29	Qp	0	.1	10.1	42.49	56	-13.51	-	-
20	.9825	25.36	Ca	0	.1	10.1	35.56	-	-	46	-10.44
21	1.30875	25.79	Qp	0	.1	10.1	35.99	56	-20.01	-	-
22	1.30875	20.88	Ca	0	.1	10.1	31.08	-	-	46	-14.92
23	2.292	23.38	Qp	0	.1	10.1	33.58	56	-22.42	-	-
24	2.292	15.7	Ca	0	.1	10.1	25.9	-	-	46	-20.1

Qp - Quasi-Peak detector

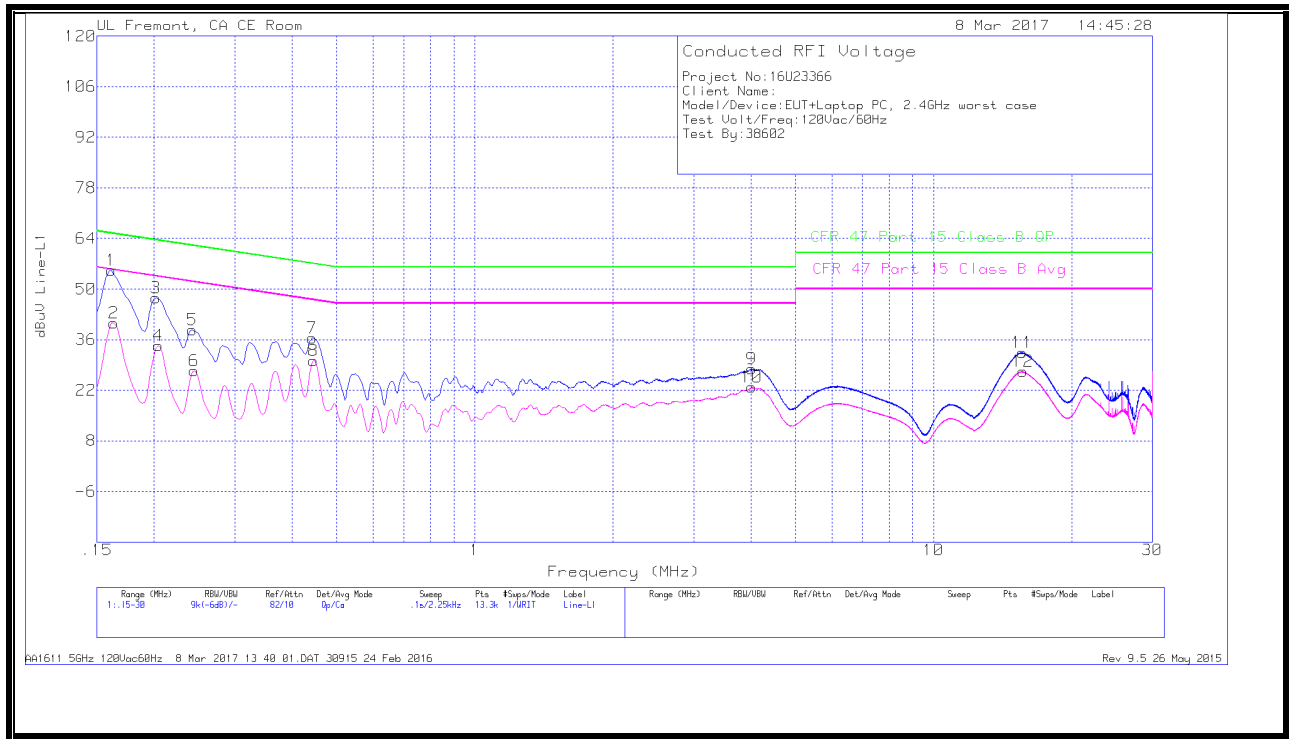
Ca - CISPR average detection

FCC15 CE Class B 150kHz-30MHz Stepping.TST 30915 24 Feb 2016

Rev 9.5 26 May 2015

10.2. EUT POWERED BY HOST PC VIA USB CABLE

LINE 1 RESULTS



WORST EMISSIONS

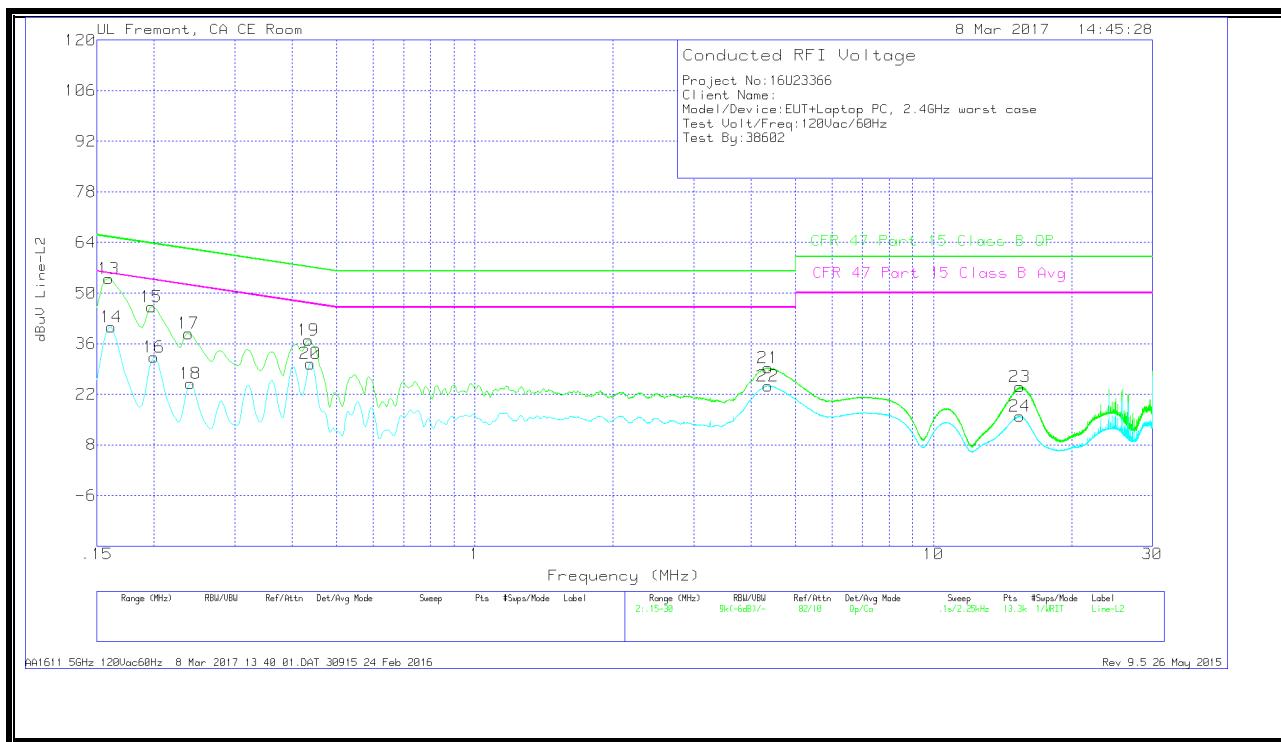
Range 1: Line-L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	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	44.99	Qp	0	.1	10.1	55.19	65.4	-10.21	-	-
2	.1635	30.42	Ca	0	.1	10.1	40.62	-	-	55.28	-14.66
3	.20175	37.39	Qp	0	.1	10.1	47.59	63.54	-15.95	-	-
4	.204	24.19	Ca	0	.1	10.1	34.39	-	-	53.45	-19.06
5	.24225	28.5	Qp	0	.1	10.1	38.7	62.02	-23.32	-	-
6	.2445	17.22	Ca	0	.1	10.1	27.42	-	-	51.94	-24.52
7	.4425	26.24	Qp	0	.1	10.1	36.44	57.01	-20.57	-	-
8	.44475	20	Ca	0	.1	10.1	30.2	-	-	46.97	-16.77
9	4.0155	17.73	Qp	0	.1	10.1	27.93	56	-28.07	-	-
10	4.02	12.61	Ca	0	.1	10.1	22.81	-	-	46	-23.19
11	15.5985	22.02	Qp	0	.2	10.2	32.42	60	-27.58	-	-
12	15.6638	16.66	Ca	0	.2	10.3	27.16	-	-	50	-22.84

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



WORST EMISSIONS

Range 2: Line-L2 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	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	.159	43.87	Qp	0	.1	10.1	54.07	65.52	-11.45	-	-
14	.16125	30.45	Ca	0	.1	10.1	40.65	-	-	55.4	-14.75
15	.19725	36.02	Qp	0	.1	10.1	46.22	63.73	-17.51	-	-
16	.1995	22.11	Ca	0	.1	10.1	32.31	-	-	53.63	-21.32
17	.23775	28.59	Qp	0	.1	10.1	38.79	62.17	-23.38	-	-
18	.24	14.82	Ca	0	.1	10.1	25.02	-	-	52.1	-27.08
19	.4335	26.69	Qp	0	.1	10.1	36.89	57.19	-20.3	-	-
20	.438	20.25	Ca	0	.1	10.1	30.45	-	-	47.1	-16.65
21	4.362	19.16	Qp	0	.1	10.1	29.36	56	-26.64	-	-
22	4.35075	14.12	Ca	0	.1	10.1	24.32	-	-	46	-21.68
23	15.4388	13.77	Qp	0	.2	10.2	24.17	60	-35.83	-	-
24	15.405	5.56	Ca	0	.2	10.2	15.96	-	-	50	-34.04

Qp - Quasi-Peak detector

Ca - CISPR average detection

AA1611 5GHz 120Vac60Hz 8 Mar 2017 13 40 01.DAT 30915 24 Feb 2016

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