

9. RADIATED TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

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
0.009-0.490	2400/F(kHz) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
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 spectrum from 1 GHz to 18 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band. Below 1GHz and above 18GHz emissions, the channel with the highest output power was tested.

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.

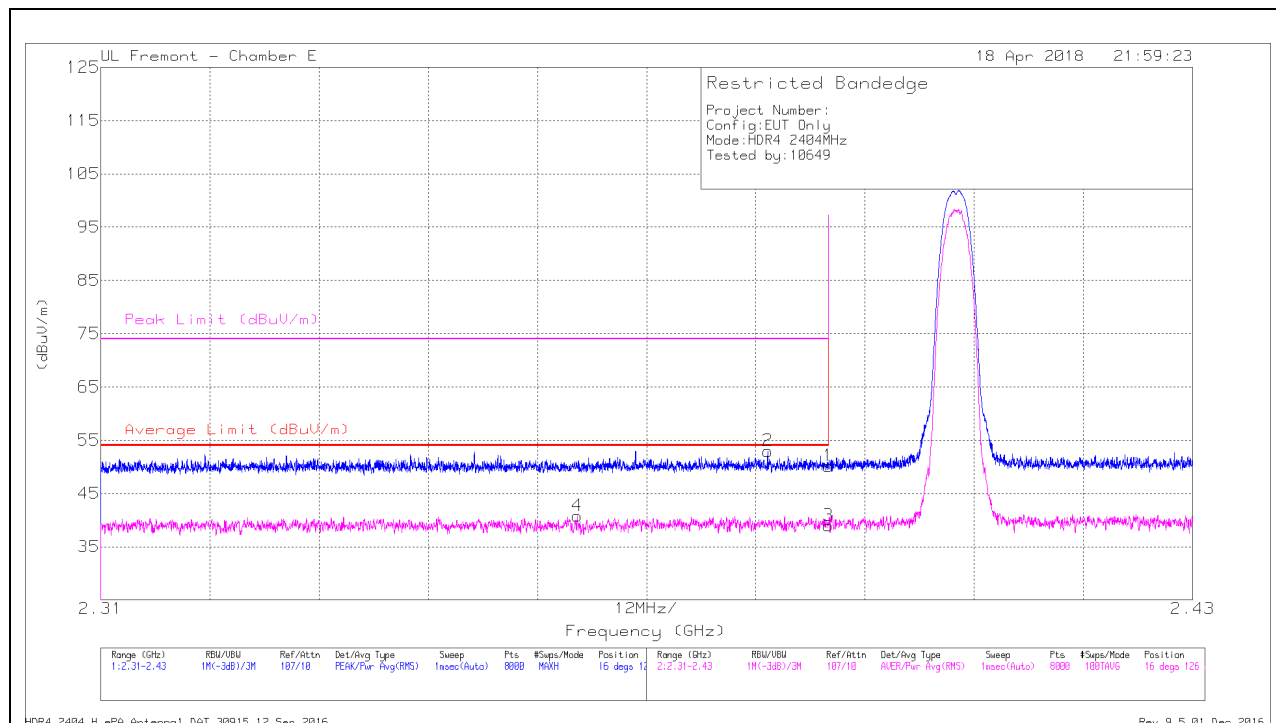
9.2. TRANSMITTER ABOVE 1 GHz

9.2.1. HIGH POWER HDR4

Antenna 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Ampl/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
4	* 2.362	31.61	RMS	31.9	-22.7	40.81	54	-13.19	-	-	16	126	H
2	* 2.383	43.66	Pk	31.9	-22.6	52.96	-	-	74	-21.04	16	126	H
1	* 2.39	40.75	Pk	32	-22.6	50.15	-	-	74	-23.85	16	126	H
3	* 2.39	29.54	RMS	32	-22.6	38.94	54	-15.06	-	-	16	126	H

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

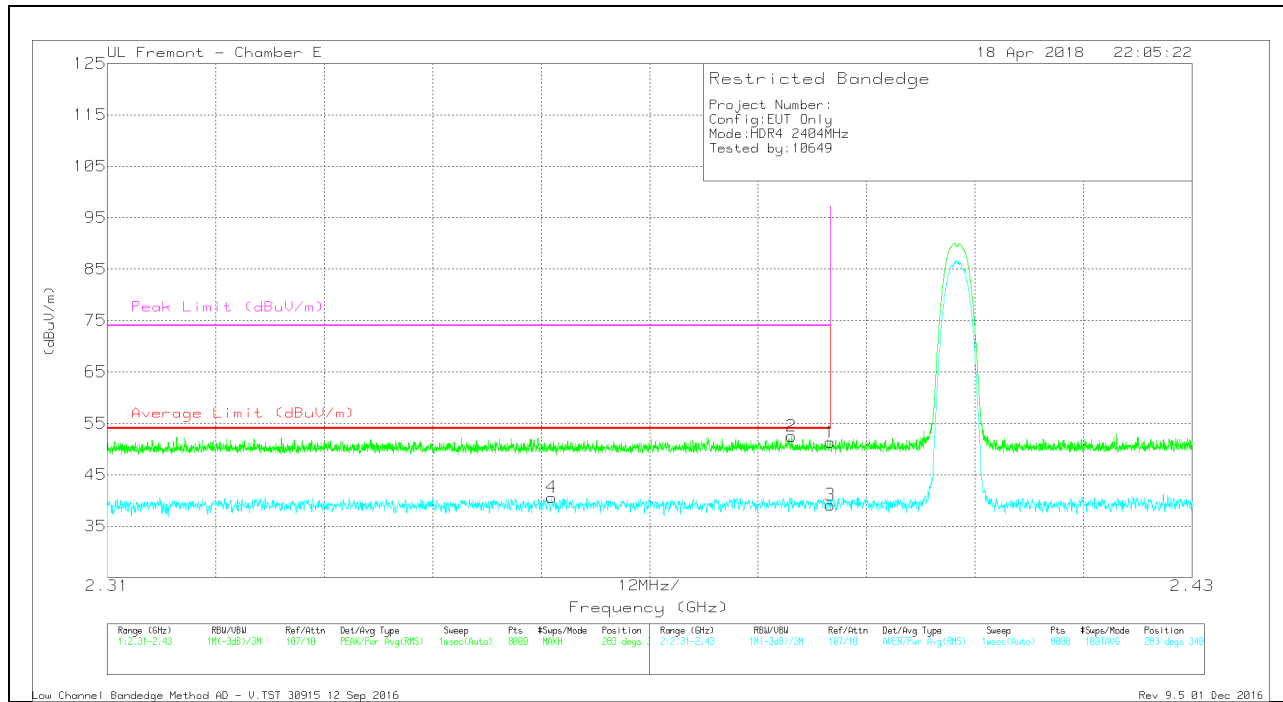
Pk - Peak detector

RMS - RMS detection

HDR4_2404_H_ePA Antenna1.DAT 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Par 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	* 2.39	41.9	Pk	32	-22.6	51.3	-	-	74	-22.7	283	340	V
2	* 2.386	43.19	Pk	31.9	-22.6	52.49	-	-	74	-21.51	283	340	V
3	* 2.39	29.71	RMS	32	-22.6	39.11	54	-14.89	-	-	283	340	V
4	* 2.359	31.4	RMS	31.9	-22.7	40.6	54	-13.4	-	-	283	340	V

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

Pk - Peak detector

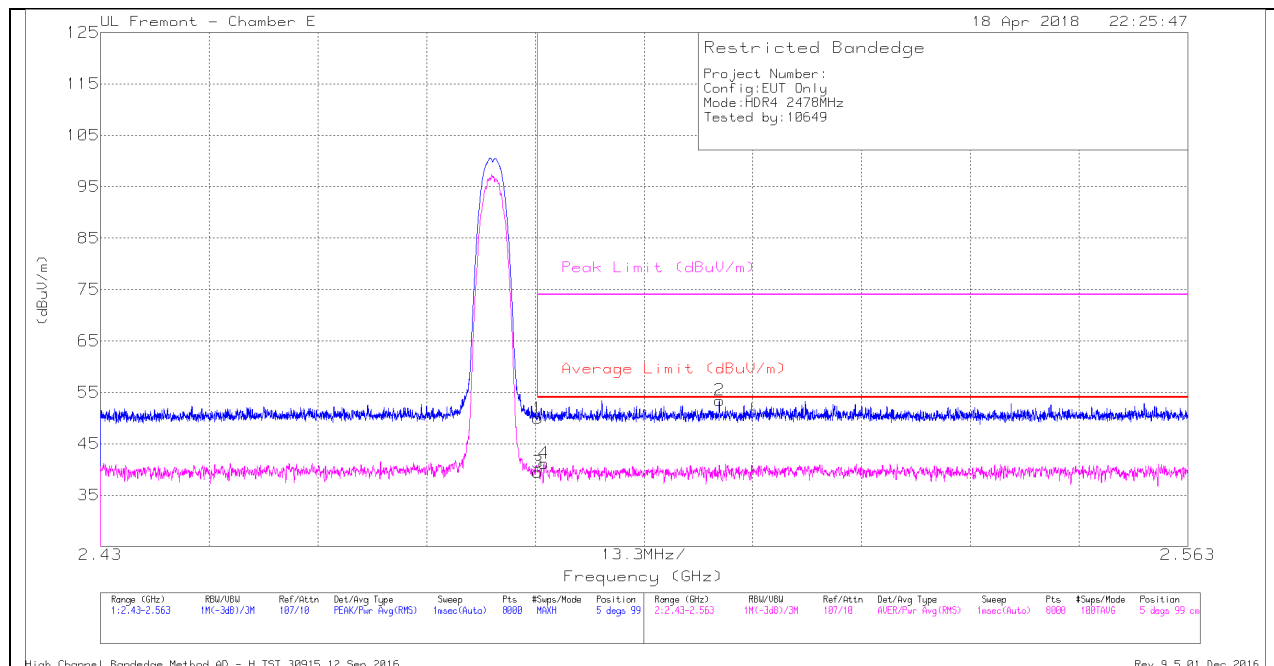
RMS - RMS detection

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

Rev 9.5 01 Dec 2016

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	40.16	Pk	32.1	-22.3	49.96	-	-	74	-24.04	5	99	H
3	* 2.484	29.69	RMS	32.1	-22.3	39.49	54	-14.51	-	-	5	99	H
4	* 2.484	31.39	RMS	32.1	-22.3	41.19	54	-12.81	-	-	5	99	H
2	2.506	43.64	Pk	32.1	-22.3	53.44	-	-	74	-20.56	5	99	H

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

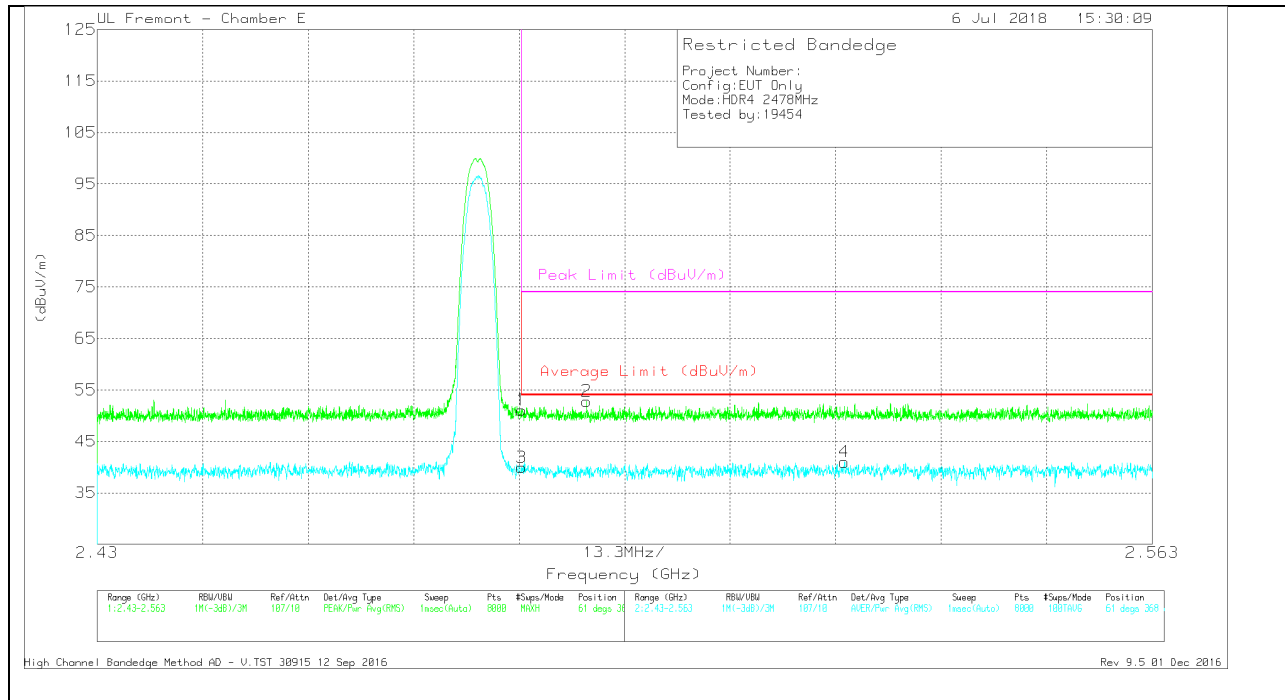
Pk - Peak detector

RMS - RMS detection

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

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtz/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	41.29	Pk	32.1	-22.3	51.09	-	-	74	-22.91	61	368	V
2	* 2.492	43.1	Pk	32.1	-22.4	52.8	-	-	74	-21.2	61	368	V
3	* 2.484	30.11	RMS	32.1	-22.3	39.91	54	-14.09	-	-	61	368	V
4	2.524	31.19	RMS	32.1	-22.3	40.99	54	-13.01	-	-	61	368	V

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

Pk - Peak detector

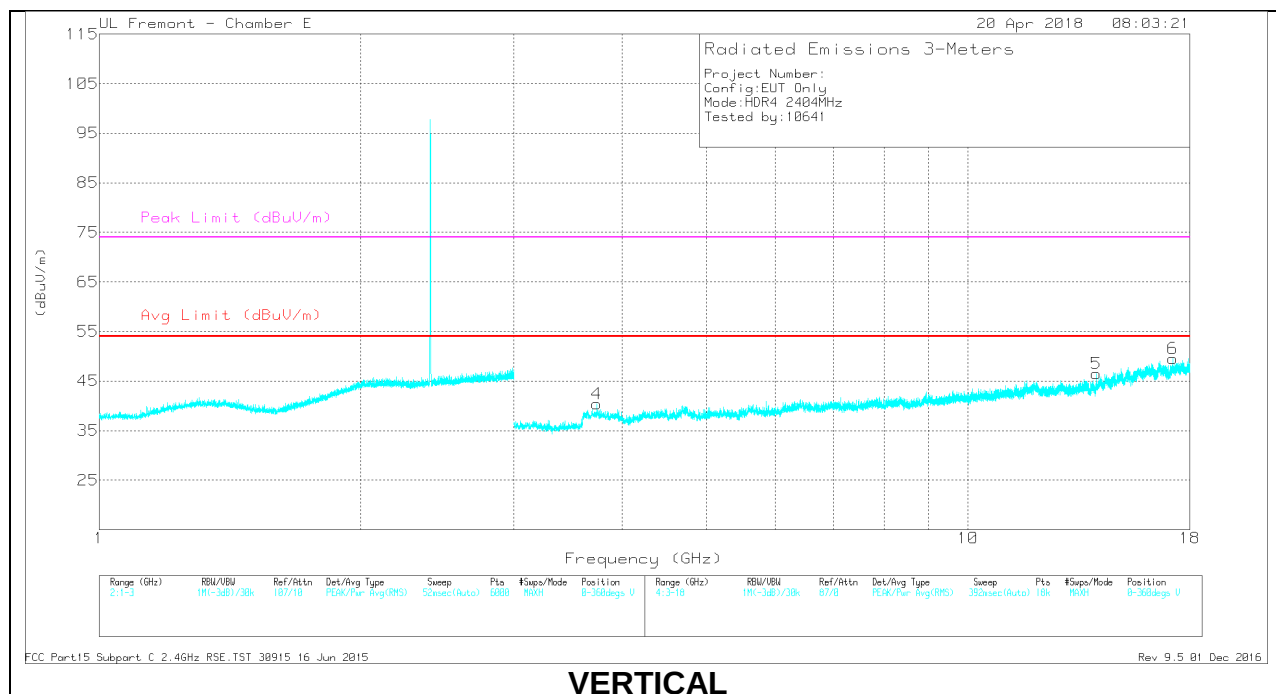
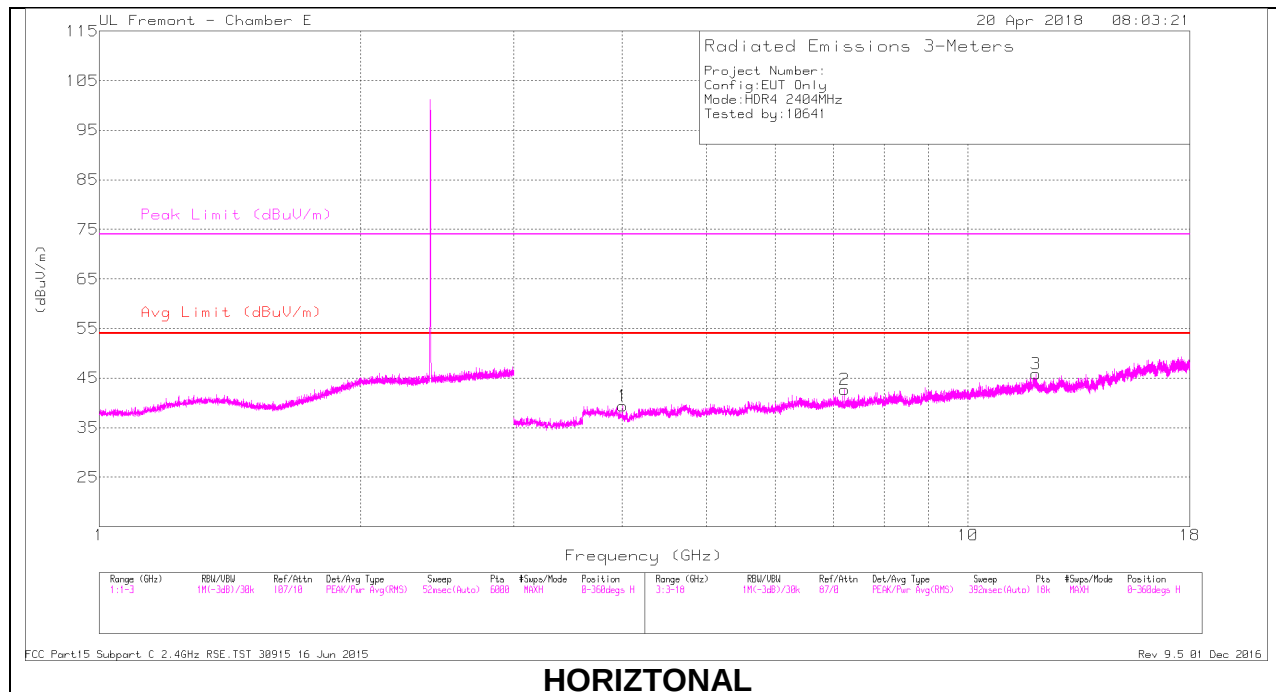
RMS - RMS detection

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HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 4.004	41.29	PK2	33.7	-29.4	45.59	-	-	74	-28.41	287	333	H
	* 4.002	29.04	MAv1	33.7	-29.4	33.34	54	-20.66	-	-	287	333	H
3	* 11.973	36.04	PK2	39.7	-22.5	53.24	-	-	74	-20.76	360	182	H
	* 11.988	23.17	MAv1	39.8	-22.8	40.17	54	-13.83	-	-	360	182	H
4	* 3.737	41.68	PK2	33.6	-29.7	45.58	-	-	74	-28.42	159	394	V
	* 3.73	29.44	MAv1	33.6	-29.7	33.34	54	-20.66	-	-	159	394	V
2	7.213	40.81	PK2	36.1	-26.8	50.11	-	-	-	-	152	131	H
5	14.034	37.77	PK2	39.1	-24	52.87	-	-	-	-	254	166	V
6	17.194	35.41	PK2	41.8	-21.3	55.91	-	-	-	-	19	346	V

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

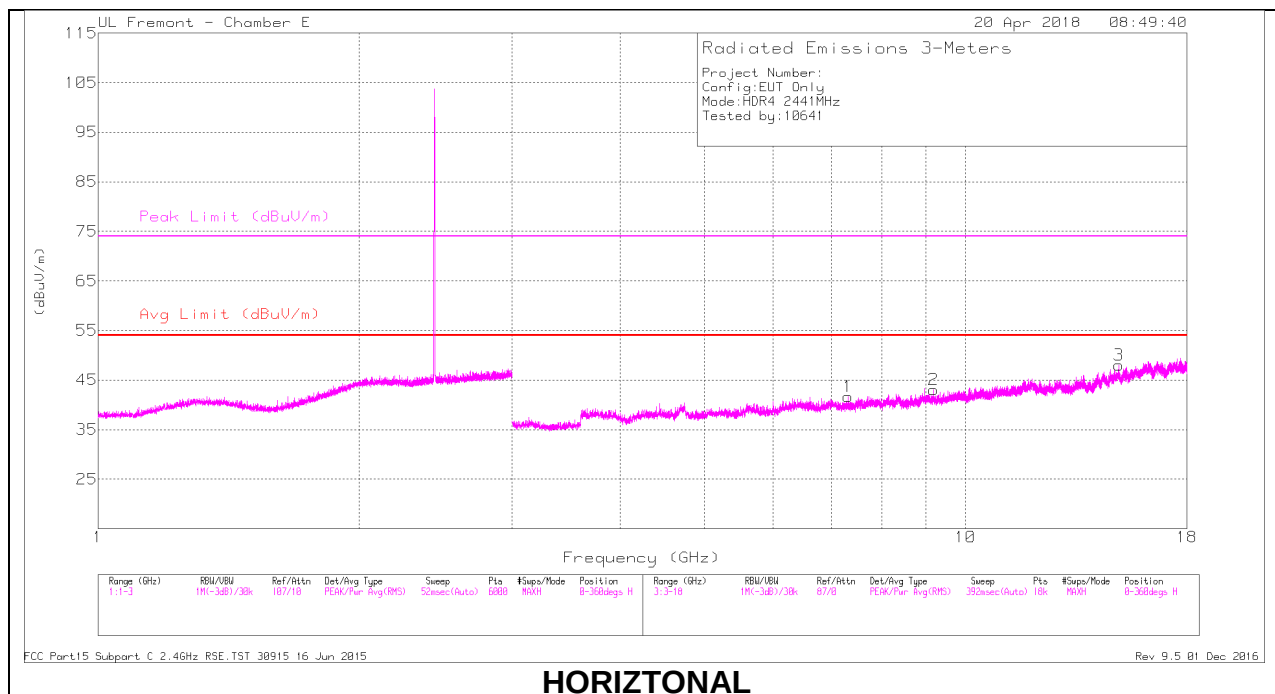
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

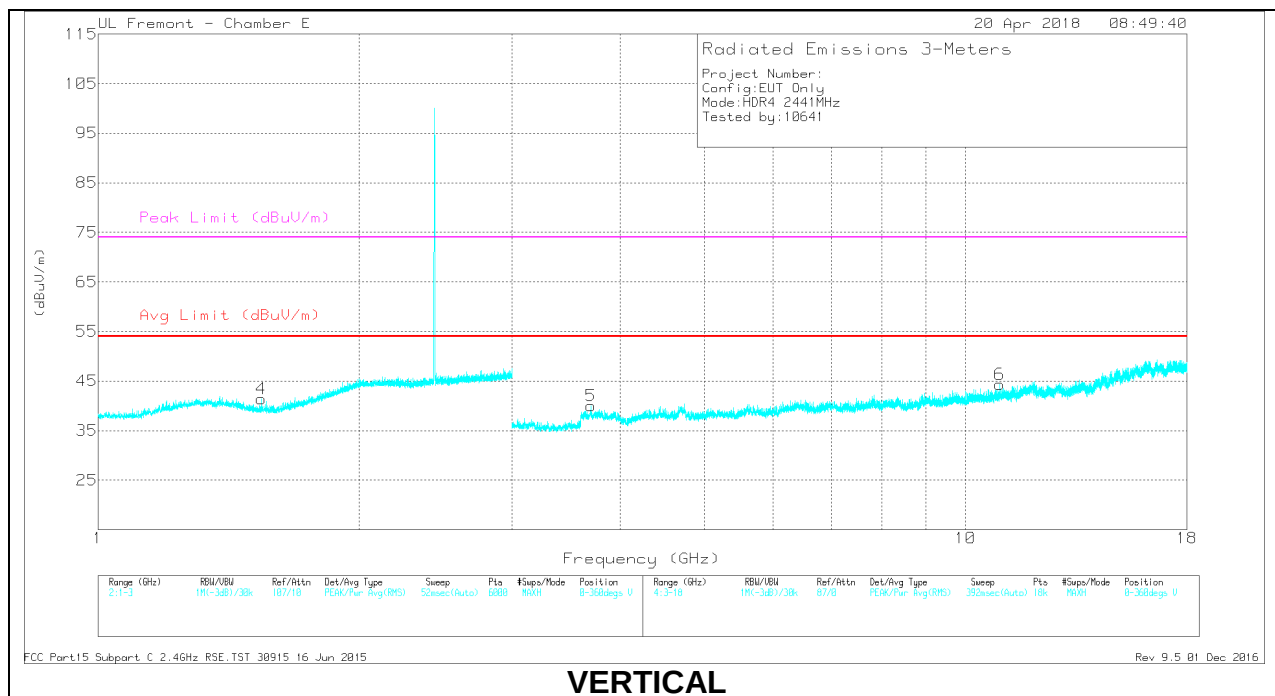
FCC Part15 Subpart C 2.4GHz RSE.TST 30915 16 Jun 2015

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MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 1.544	44.85	PK2	27.4	-24.6	47.65	-	-	74	-26.35	210	107	V
	* 1.548	31.87	MAv1	27.4	-24.6	34.67	54	-19.33	-	-	210	107	V
1	* 7.322	39.11	PK2	36	-26.2	48.91	-	-	74	-25.09	11	114	H
	* 7.323	27.6	MAv1	36	-26.2	37.4	54	-16.6	-	-	11	114	H
2	* 9.197	36.28	PK2	37.1	-24.4	48.98	-	-	74	-25.02	173	315	H
	* 9.18	24.1	MAv1	37.1	-24.4	36.8	54	-17.2	-	-	173	315	H
5	* 3.707	41.85	PK2	33.5	-29.9	45.45	-	-	74	-28.55	224	314	V
	* 3.705	29.6	MAv1	33.5	-29.9	33.2	54	-20.8	-	-	224	314	V
6	* 10.951	35.48	PK2	38.3	-22.8	50.98	-	-	74	-23.02	75	162	V
	* 10.959	22.23	MAv1	38.4	-22.7	37.93	54	-16.07	-	-	75	162	V
3	15.014	35.42	PK2	41.4	-22.7	54.12	-	-	-	-	353	229	H

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

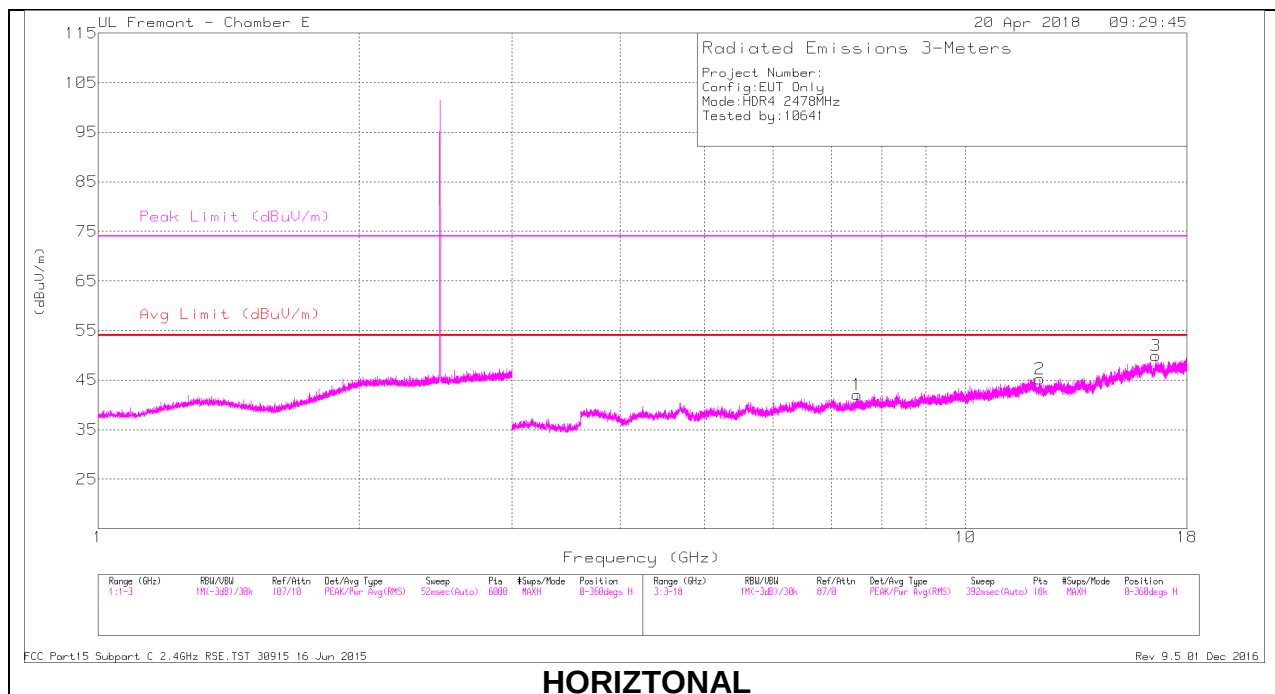
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

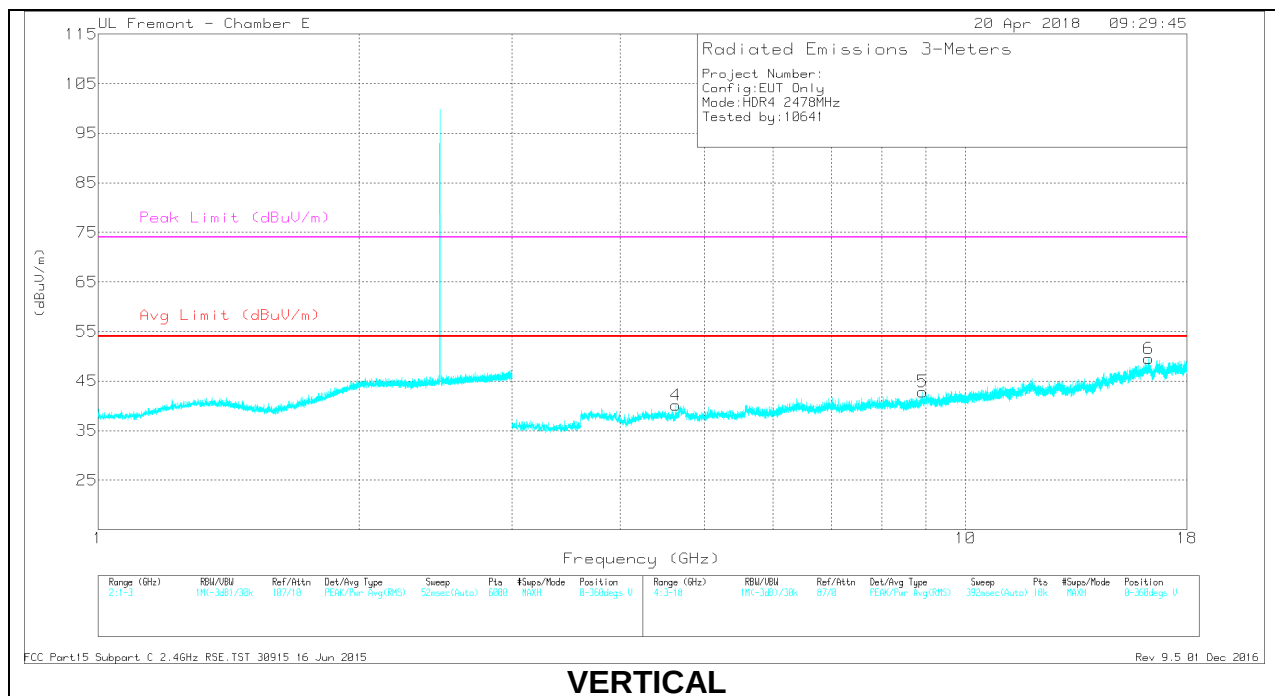
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HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 7.499	37.4	PK2	36.1	-25.7	47.8	-	-	74	-26.2	213	139	H
	* 7.513	25.02	MAv1	36.2	-25.8	35.42	54	-18.58	-	-	213	139	H
2	* 12.189	34.57	PK2	39.1	-22.7	50.97	-	-	74	-23.03	285	258	H
	* 12.17	22.31	MAv1	39.1	-23	38.41	54	-15.59	-	-	285	258	H
4	* 4.644	41.53	PK2	34.4	-30	45.93	-	-	74	-28.07	46	102	V
	* 4.643	29.18	MAv1	34.4	-30	33.58	54	-20.42	-	-	46	102	V
5	8.915	36.86	PK2	36.9	-24.3	49.46	-	-	-	-	146	333	V
6	16.245	35.73	PK2	41	-20.6	56.13	-	-	-	-	297	164	V
3	16.558	35.47	PK2	41.6	-20.7	56.37	-	-	-	-	294	182	H

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

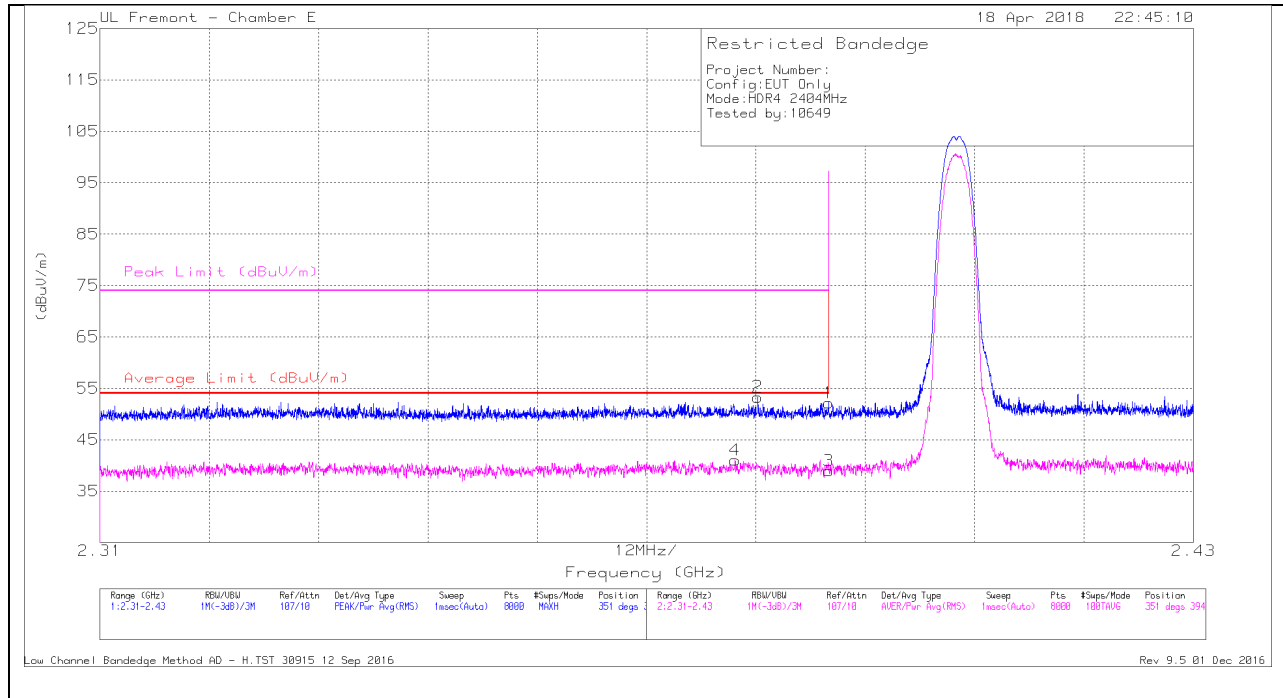
FCC Part15 Subpart C 2.4GHz RSE.TST 30915 16 Jun 2015

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Antenna 3

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 2.39	42.76	Pk	32	-22.6	52.16	-	-	74	-21.84	351	394	H
2	* 2.382	43.98	Pk	31.9	-22.6	53.28	-	-	74	-20.72	351	394	H
3	* 2.39	29.53	RMS	32	-22.6	38.93	54	-15.07	-	-	351	394	H
4	* 2.38	31.71	RMS	31.9	-22.6	41.01	54	-12.99	-	-	351	394	H

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

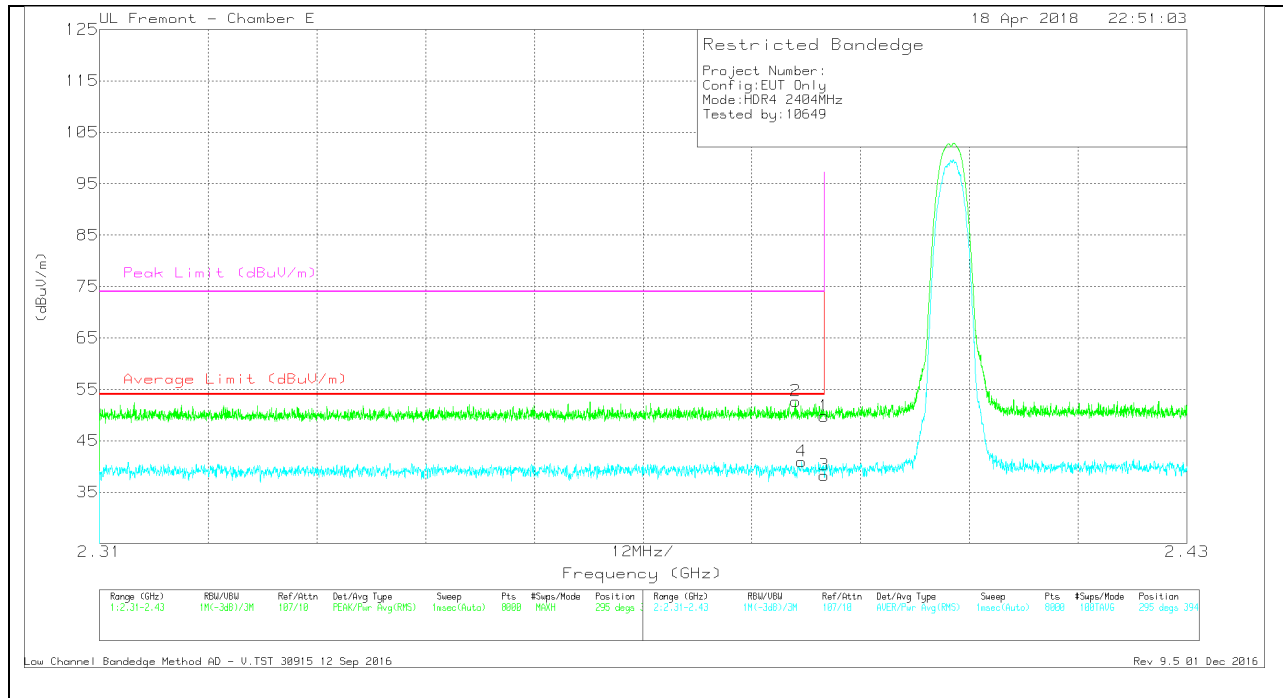
Pk - Peak detector

RMS - RMS detection

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

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Ampl/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.39	Pk	32	-22.6	49.79	-	-	74	-24.21	295	394	V
2	* 2.387	43.41	Pk	31.9	-22.6	52.71	-	-	74	-21.29	295	394	V
3	* 2.39	28.89	RMS	32	-22.6	38.29	54	-15.71	-	-	295	394	V
4	* 2.387	31.68	RMS	31.9	-22.6	40.98	54	-13.02	-	-	295	394	V

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

Pk - Peak detector

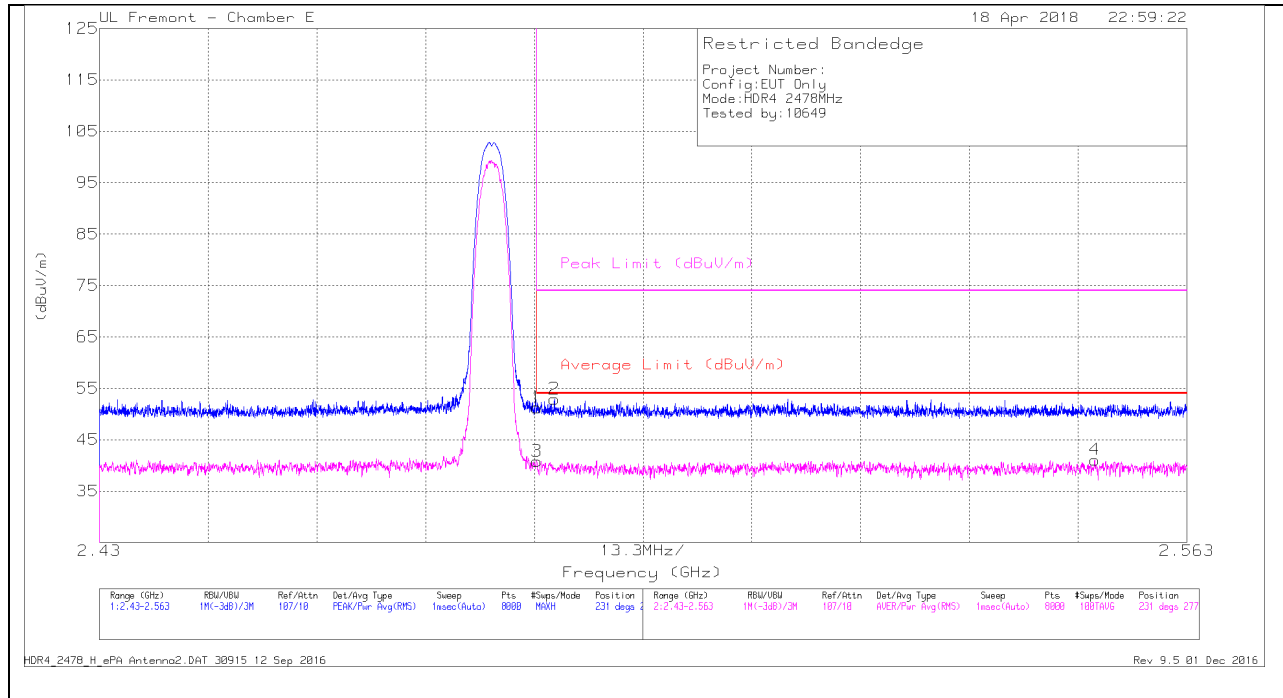
RMS - RMS detection

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

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BANEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fitr/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	41.45	Pk	32.1	-22.3	51.25	-	-	74	-22.75	231	277	H
2	* 2.486	43.22	Pk	32.1	-22.4	52.92	-	-	74	-21.08	231	277	H
3	* 2.484	31.03	RMS	32.1	-22.3	40.83	54	-13.17	-	-	231	277	H
4	2.552	31.3	RMS	32.1	-22.3	41.1	54	-12.9	-	-	231	277	H

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

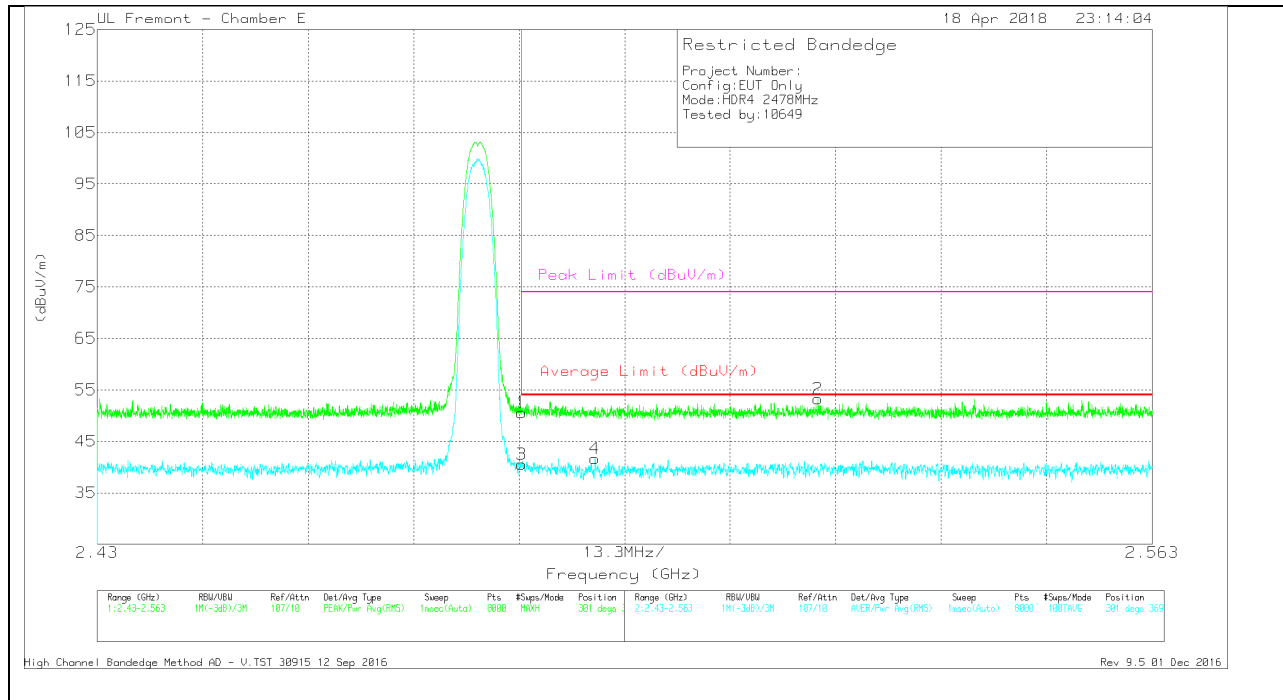
Pk - Peak detector

RMS - RMS detection

HDR4_2478_H_ePA Antenna2.DAT 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dBm)	Amp/Cbl/Filtr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.79	Pk	32.1	-22.3	50.59	-	-	74	-23.41	301	369	V
3	* 2.484	30.72	RMS	32.1	-22.3	40.52	54	-13.48	-	-	301	369	V
4	* 2.493	32.02	RMS	32.1	-22.5	41.62	54	-12.38	-	-	301	369	V
2	2.521	43.44	Pk	32.1	-22.3	53.24	-	-	74	-20.76	301	369	V

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

Pk - Peak detector

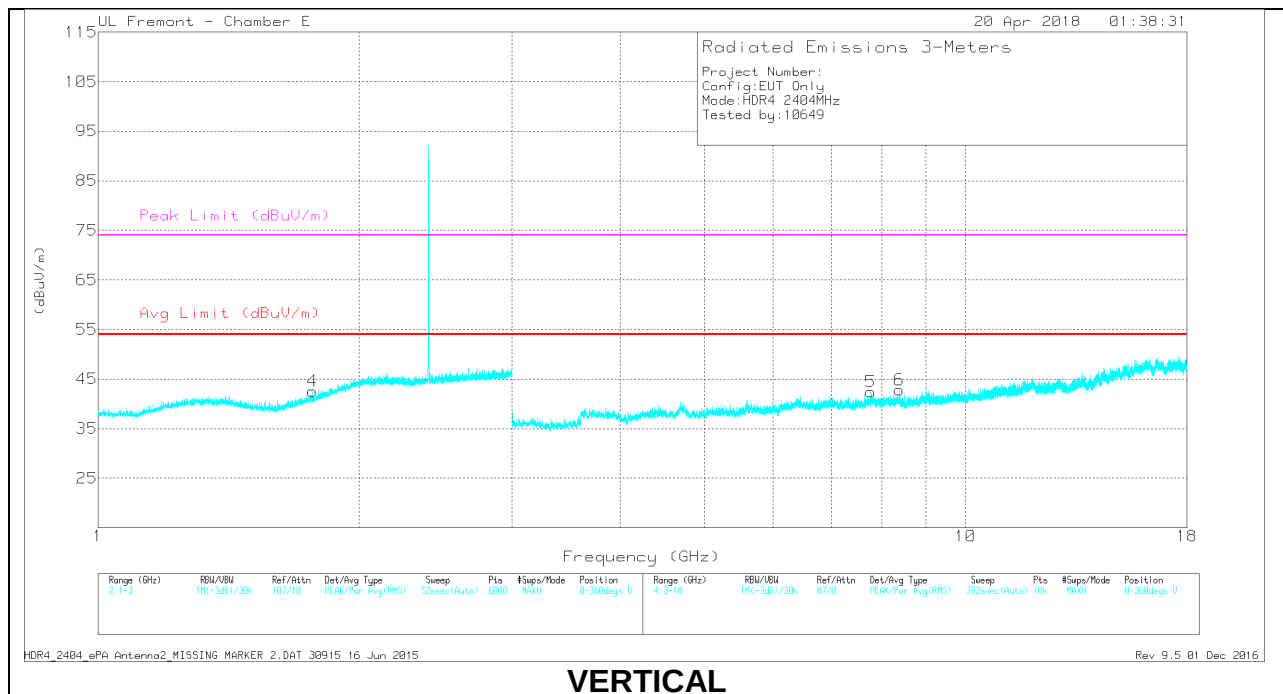
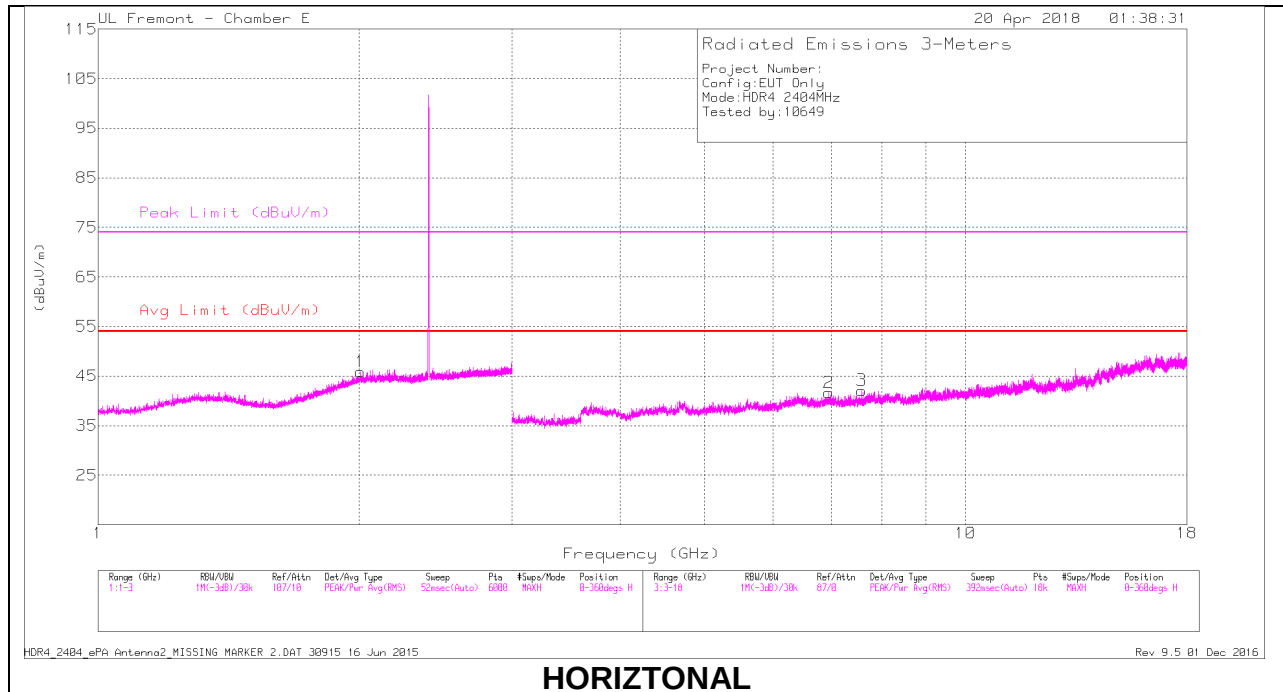
RMS - RMS detection

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

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HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 7.596	37.8	PK2	36.3	-25.7	48.4	-	-	74	-25.6	54	273	H
	* 7.594	25.86	MAv1	36.3	-25.7	36.46	54	-17.54	-	-	54	273	H
6	* 8.384	37.44	PK2	36.5	-24.7	49.24	-	-	74	-24.76	134	216	V
	* 8.386	25.42	MAv1	36.5	-24.8	37.12	54	-16.88	-	-	134	216	V
4	1.767	44.72	PK2	29.1	-24.1	49.72	-	-	-	-	108	313	V
1	2.007	43.81	PK2	32.1	-23.4	52.51	-	-	-	-	75	348	H
2	6.951	38.7	PK2	36.1	-26.7	48.1	-	-	-	-	122	196	H
5	7.782	38.6	PK2	36.5	-26.1	49	-	-	-	-	111	298	V

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

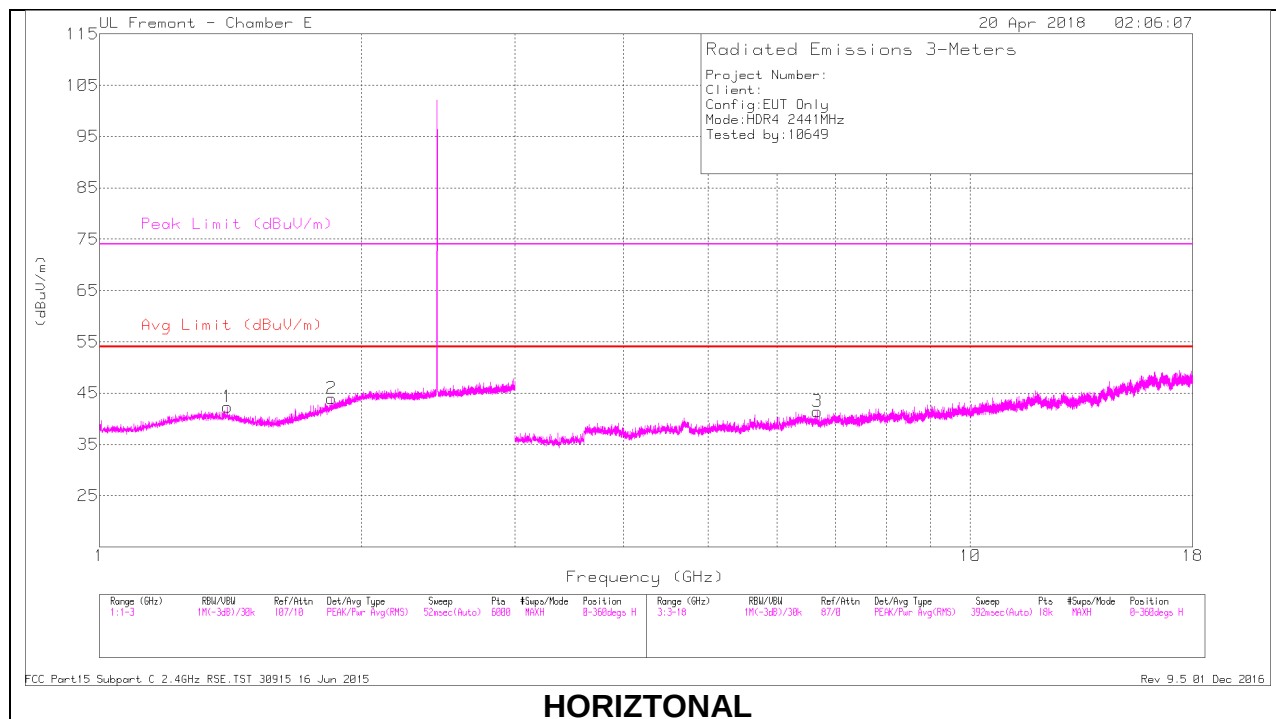
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

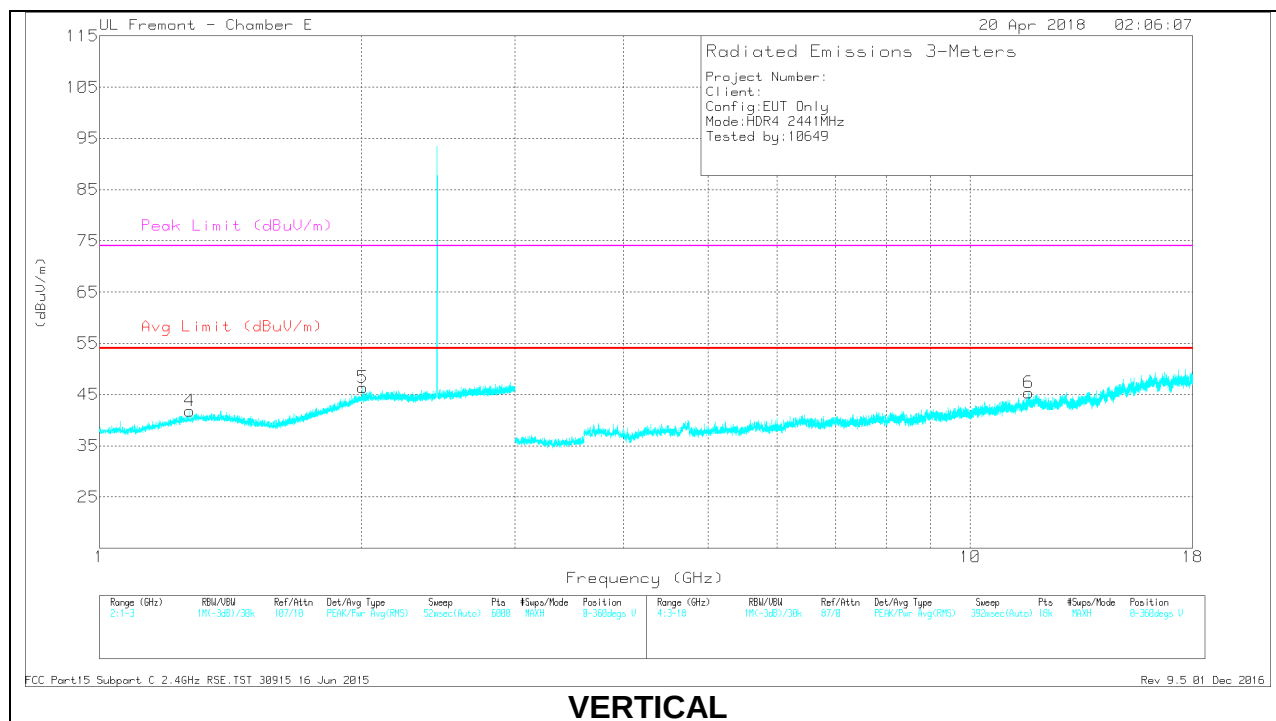
HDR4_2404_ePA Antenna2_MISSING MARKER 2.DAT 30915 16 Jun 2015

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MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Markers	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.402	45.14	PK2	28.7	-25	48.84	-	-	74	-25.16	316	182	H
	* 1.403	32.35	MAv1	28.7	-25	36.05	54	-17.95	-	-	316	182	H
4	* 1.271	45.11	PK2	28.6	-25.3	48.41	-	-	74	-25.59	287	192	V
	* 1.27	32.83	MAv1	28.6	-25.3	36.13	54	-17.87	-	-	287	192	V
6	* 11.672	35.33	PK2	39	-22.1	52.23	-	-	74	-21.77	343	113	V
	* 11.671	22.78	MAv1	39	-22.1	39.68	54	-14.32	-	-	343	113	V
2	1.846	43.94	PK2	30.2	-23.9	50.24	-	-	-	-	334	147	H
5	2.006	43.9	PK2	32.1	-23.4	52.6	-	-	-	-	313	167	V
3	6.669	39.08	PK2	35.9	-26.9	48.08	-	-	-	-	278	223	H

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

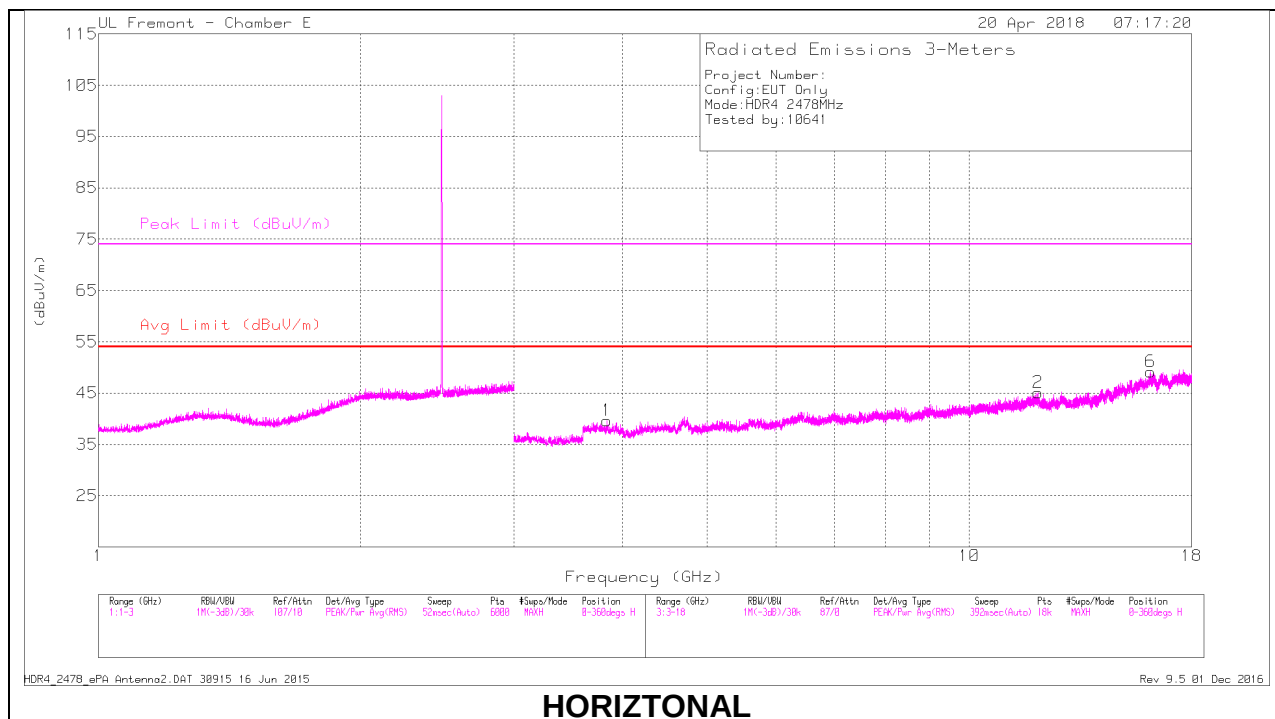
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

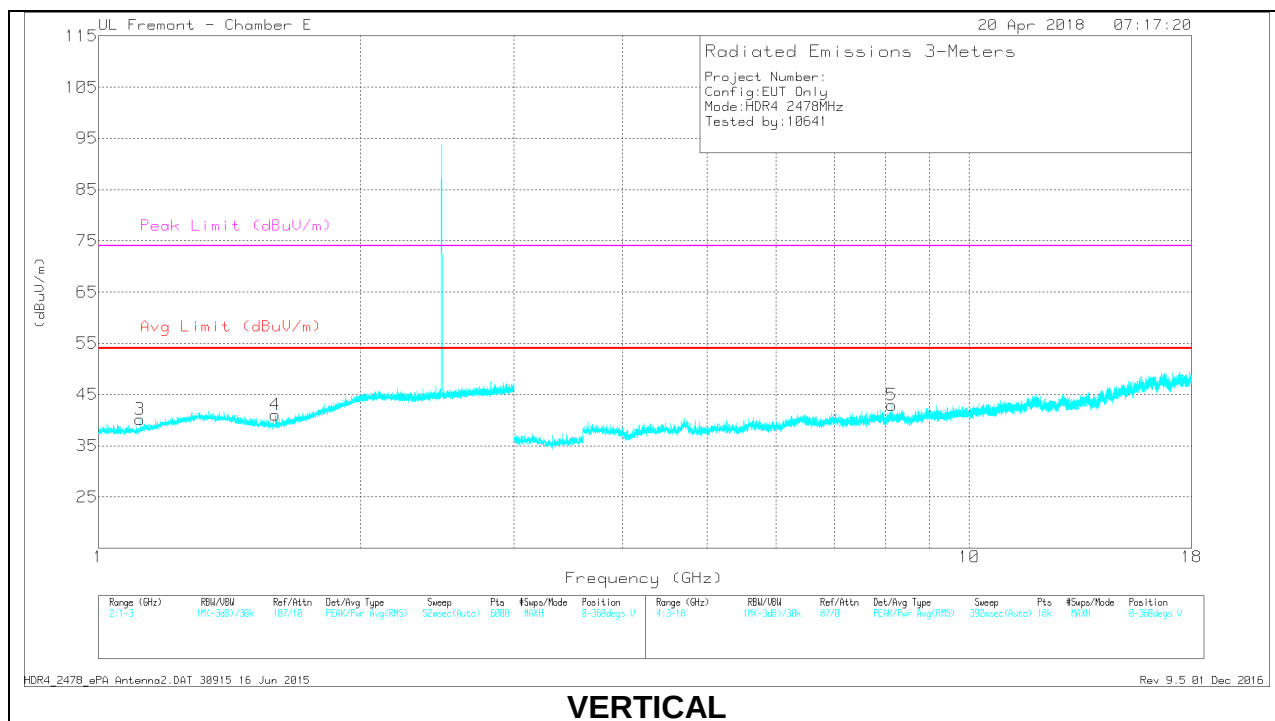
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HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 1.11	45.42	PK2	26.5	-25.7	46.22	-	-	74	-27.78	185	333	V
	* 1.124	32.81	MAv1	26.7	-25.6	33.91	54	-20.09	-	-	185	333	V
4	* 1.605	44.9	PK2	27.2	-24.4	47.7	-	-	74	-26.3	228	137	V
	* 1.59	31.86	MAv1	27.2	-24.5	34.56	54	-19.44	-	-	228	137	V
1	* 3.836	43.02	PK2	33.7	-30.6	46.12	-	-	74	-27.88	6	358	H
	* 3.84	30.56	MAv1	33.7	-30.6	33.66	54	-20.34	-	-	6	358	H
2	* 11.98	35.47	PK2	39.7	-22.6	52.57	-	-	74	-21.43	83	264	H
	* 11.993	22.15	MAv1	39.8	-22.9	39.05	54	-14.95	-	-	83	264	H
6	* 16.142	35.93	PK2	41.2	-20.4	56.73	-	-	74	-17.27	353	145	H
	* 16.152	22.7	MAv1	41.1	-20.6	43.2	54	-10.8	-	-	353	145	H
5	* 8.148	38.27	PK2	36.5	-25.2	49.57	-	-	74	-24.43	151	120	V
	* 8.155	24.96	MAv1	36.5	-25.3	36.16	54	-17.84	-	-	151	120	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HDR4_2478_ePA Antenna2.DAT 30915 16 Jun 2015

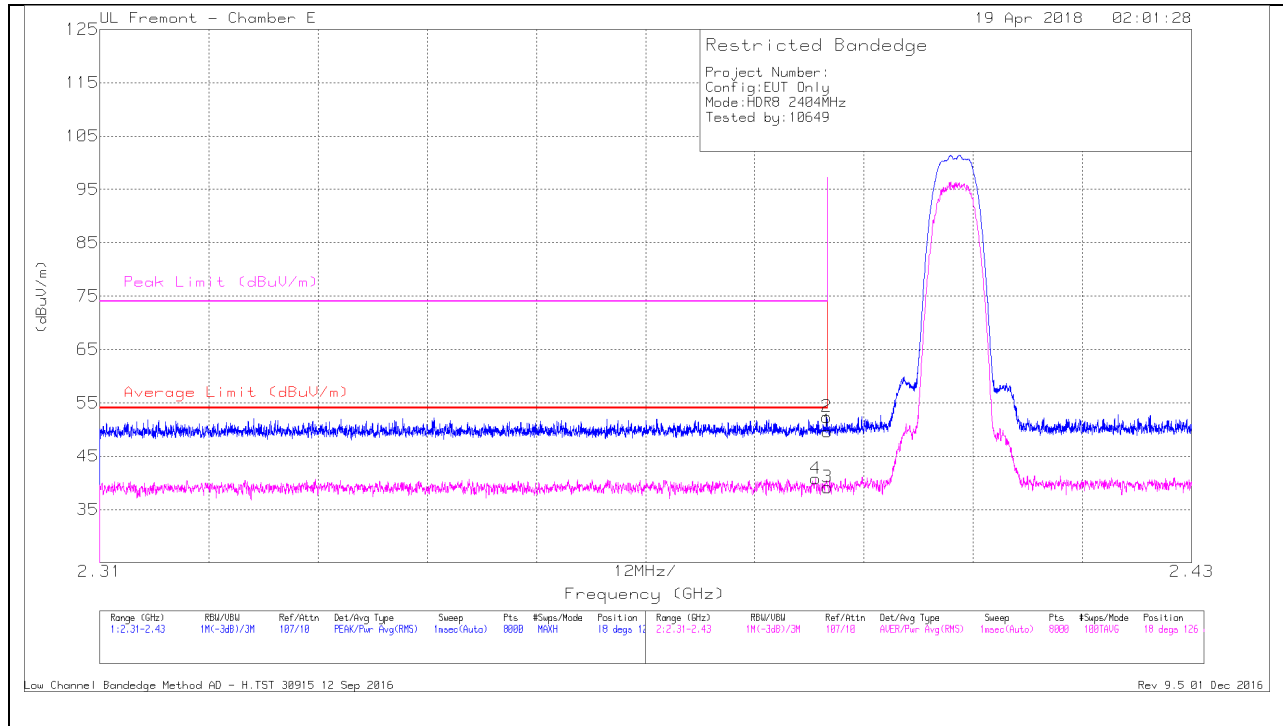
Rev 9.5 01 Dec 2016

9.2.2. HIGH POWER HDR8

Antenna 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Ampl/Chl/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
4	* 2.389	31.51	RMS	31.9	-22.6	40.81	54	-13.19	-	-	18	126	H
1	* 2.39	40.24	Pk	32	-22.6	49.64	-	-	74	-24.36	18	126	H
2	* 2.39	42.95	Pk	32	-22.6	52.35	-	-	74	-21.65	18	126	H
3	* 2.39	29.77	RMS	32	-22.6	39.17	54	-14.83	-	-	18	126	H

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

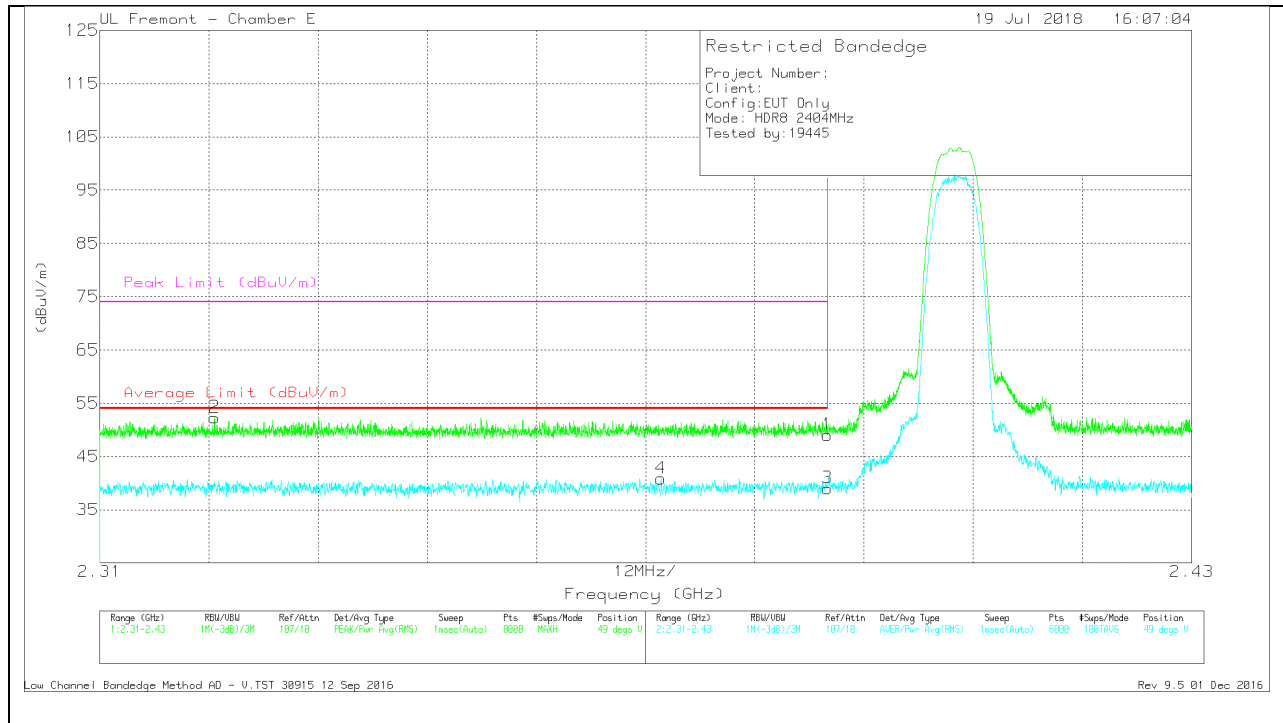
Pk - Peak detector

RMS - RMS detection

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

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filt/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	* 2.39	39.65	Pk	32	-22.6	49.05	-	-	74	-24.95	49	264	V
2	* 2.323	43.2	Pk	31.8	-22.7	52.3	-	-	74	-21.7	49	264	V
3	* 2.39	29.62	RMS	32	-22.6	39.02	54	-14.98	-	-	49	264	V
4	* 2.372	31.67	RMS	31.9	-22.7	40.87	54	-13.13	-	-	49	264	V

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

Pk - Peak detector

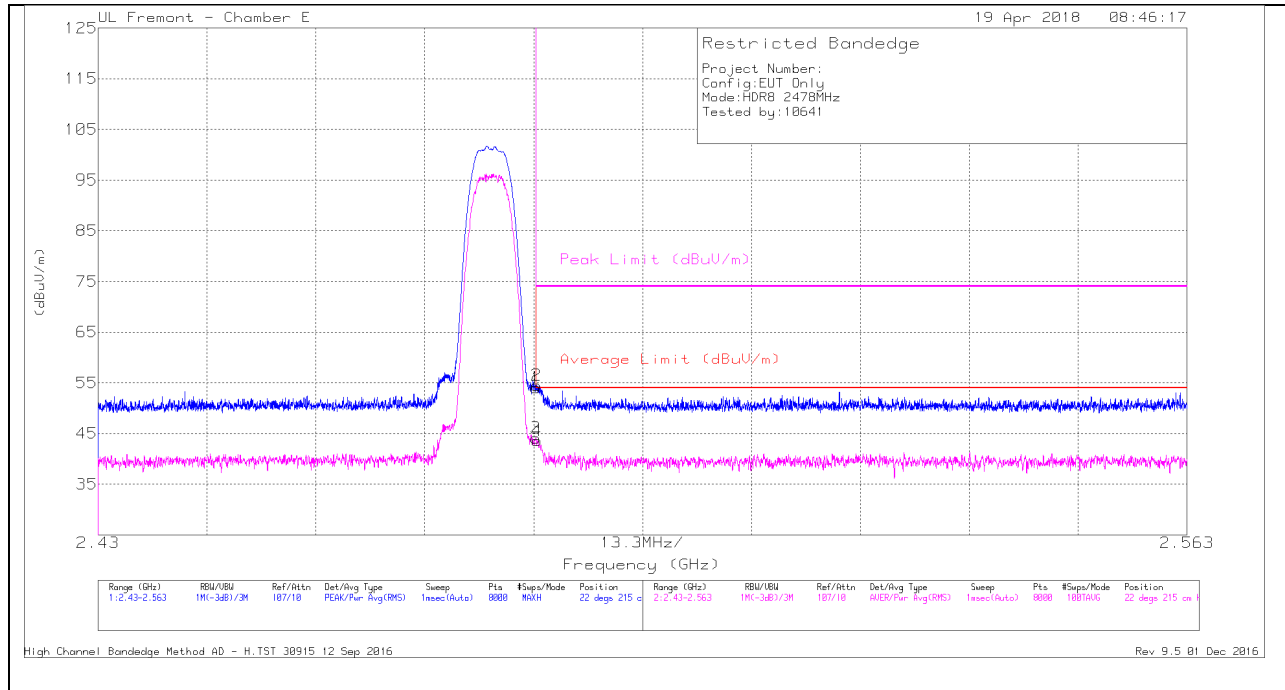
RMS - RMS detection

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

Rev 9.5 01 Dec 2016

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/P ad (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	44.19	Pk	32.1	-22.3	53.99	-	-	74	-20.01	22	215	H
2	* 2.484	44.71	Pk	32.1	-22.3	54.51	-	-	74	-19.49	22	215	H
3	* 2.484	34.3	RMS	32.1	-22.3	44.1	54	-9.9	-	-	22	215	H
4	* 2.484	33.75	RMS	32.1	-22.3	43.55	54	-10.45	-	-	22	215	H

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

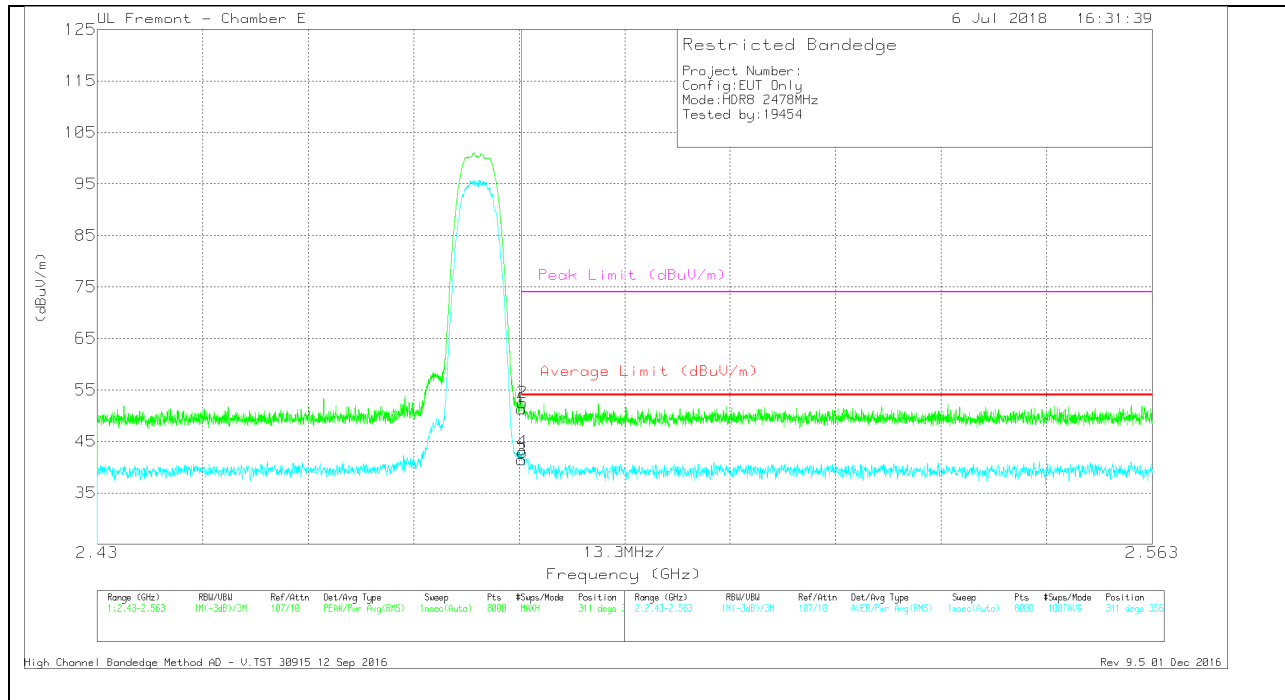
Pk - Peak detector

RMS - RMS detection

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

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cb/Fltr/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	41.5	Pk	32.1	-22.3	51.3	-	-	74	-22.7	311	356	V
2	* 2.484	42.7	Pk	32.1	-22.3	52.5	-	-	74	-21.5	311	356	V
3	* 2.484	31.62	RMS	32.1	-22.3	41.42	54	-12.58	-	-	311	356	V
4	* 2.484	33.14	RMS	32.1	-22.3	42.94	54	-11.06	-	-	311	356	V

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

Pk - Peak detector

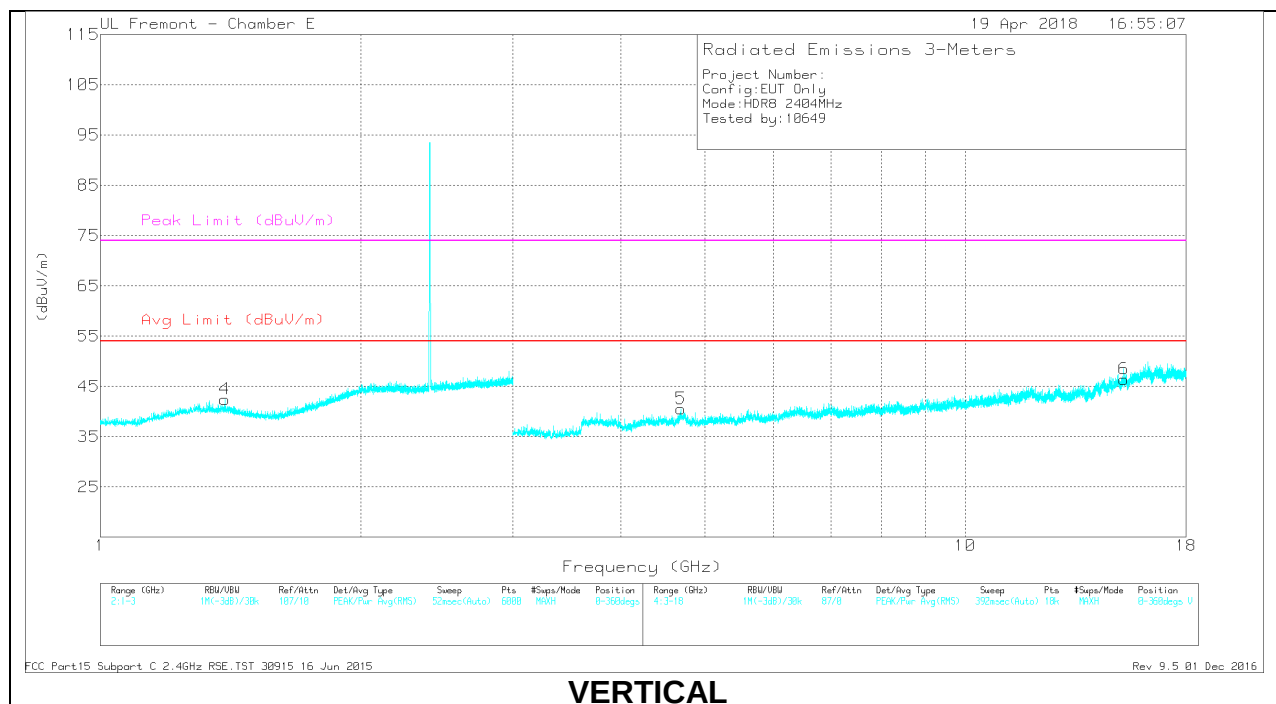
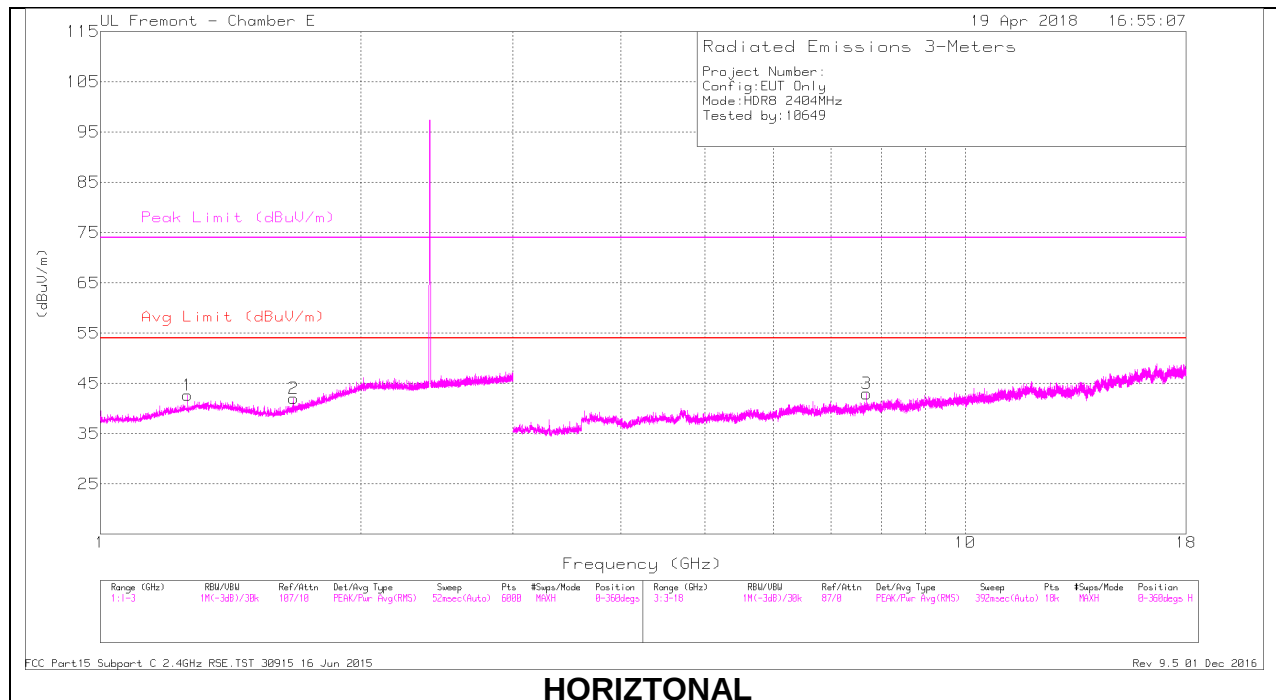
RMS - RMS detection

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

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HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 1.263	45.02	PK2	28.6	-25.3	48.32	-	-	74	-25.68	170	108	H
	* 1.262	32.34	MAv1	28.6	-25.3	35.64	54	-18.36	-	-	170	108	H
2	* 1.674	44.37	PK2	28	-24.2	48.17	-	-	74	-25.83	87	396	H
	* 1.673	31.45	MAv1	28	-24.2	35.25	54	-18.75	-	-	87	396	H
4	* 1.395	44.67	PK2	28.8	-25.1	48.37	-	-	74	-25.63	296	316	V
	* 1.393	32.14	MAv1	28.8	-25.1	35.84	54	-18.16	-	-	296	316	V
3	* 7.692	38.67	PK2	36.5	-26.6	48.57	-	-	74	-25.43	176	117	H
	* 7.688	26.15	MAv1	36.5	-26.7	35.95	54	-18.05	-	-	176	117	H
5	* 4.695	41.91	PK2	34.4	-29	47.31	-	-	74	-26.69	194	132	V
	* 4.693	29.58	MAv1	34.4	-29.1	34.88	54	-19.12	-	-	194	132	V
6	15.256	34.85	PK2	41.4	-22.1	54.15	-	-	-	-	115	339	V

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

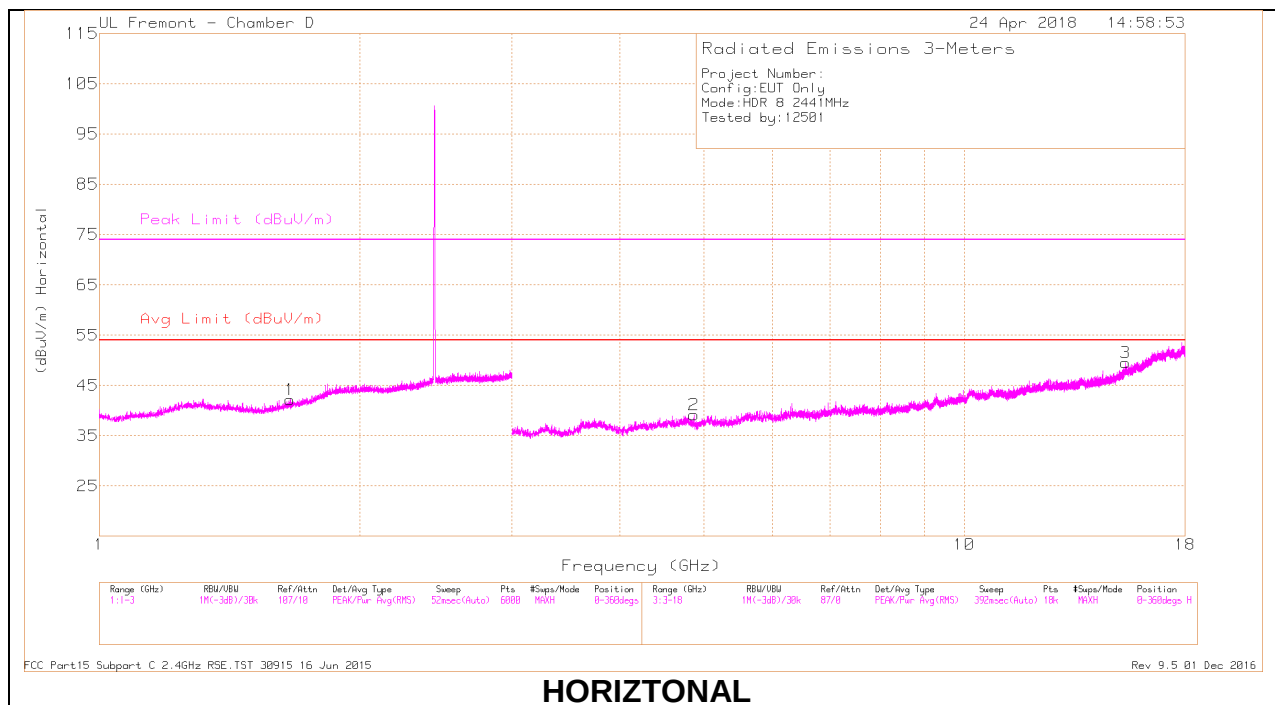
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

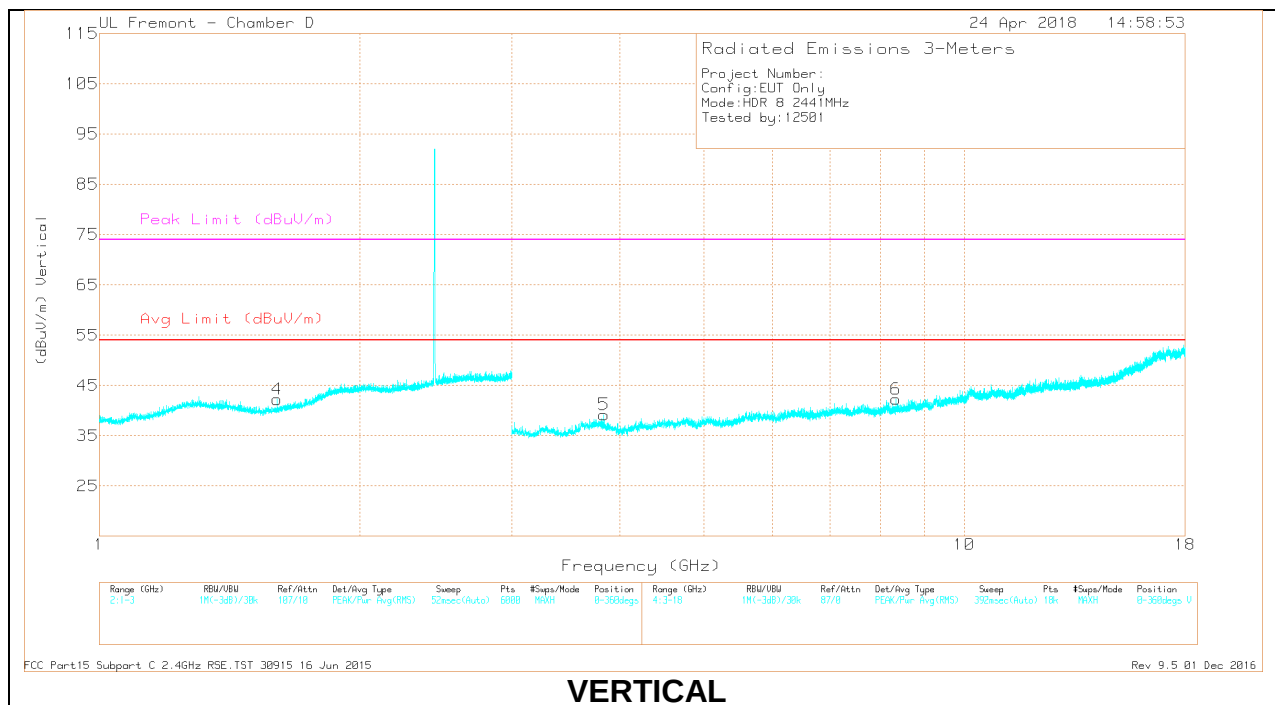
FCC Part15 Subpart C 2.4GHz RSE.TST 30915 16 Jun 2015

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MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

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	* 1.661	42.08	PK2	28.9	-21.4	49.58	-	-	74	-24.42	4	225	H
	* 1.661	29.69	MAv1	28.9	-21.4	37.19	54	-16.81	-	-	4	225	H
4	* 1.606	41.64	PK2	28.4	-21.5	48.54	-	-	74	-25.46	153	365	V
	* 1.607	29.64	MAv1	28.4	-21.5	36.54	54	-17.46	-	-	153	365	V
2	* 4.87	37.46	PK2	34.4	-27.7	44.16	-	-	74	-29.84	53	135	H
	* 4.869	25.83	MAv1	34.4	-27.7	32.53	54	-21.47	-	-	53	135	H
3	* 15.371	33.9	PK2	40.6	-19.4	55.1	-	-	74	-18.9	78	297	H
	* 15.371	22.58	MAv1	40.6	-19.4	43.78	54	-10.22	-	-	78	297	H
5	* 3.834	38.36	PK2	33.6	-28.3	43.66	-	-	74	-30.34	94	201	V
	* 3.835	26.85	MAv1	33.6	-28.3	32.15	54	-21.85	-	-	94	201	V
6	* 8.341	34.49	PK2	35.8	-22.7	47.59	-	-	74	-26.41	345	170	V
	* 8.341	23.17	MAv1	35.8	-22.7	36.27	54	-17.73	-	-	345	170	V

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

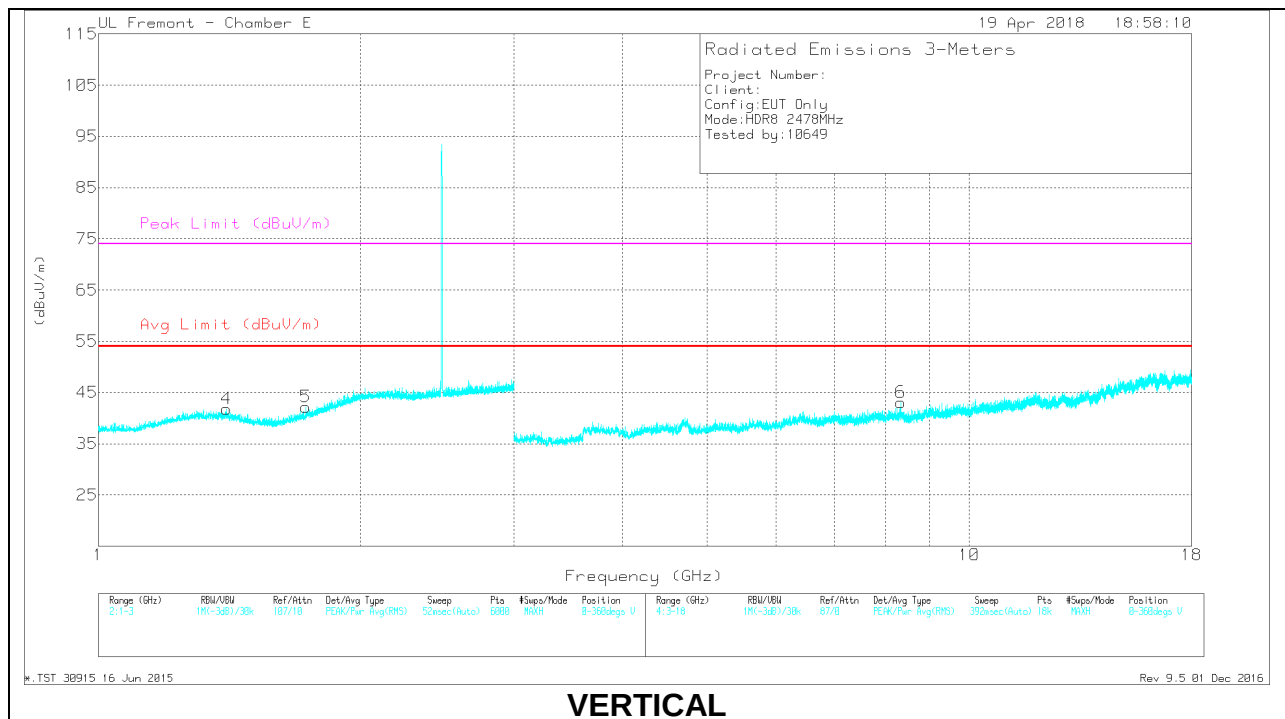
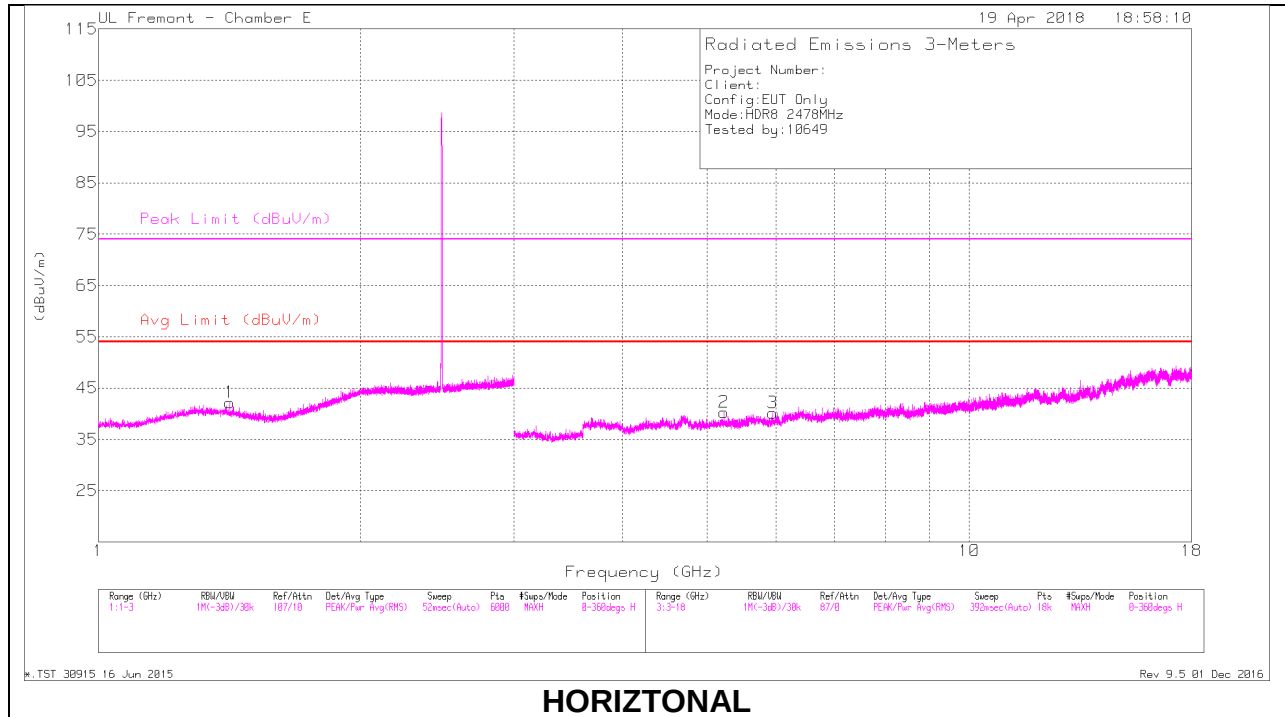
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Markers	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.415	44.74	PK2	28.6	-25	48.34	-	-	74	-25.66	240	372	H
	* 1.415	31.98	MAv1	28.6	-25	35.58	54	-18.42	-	-	251	330	H
4	* 1.403	44.75	PK2	28.7	-25	48.45	-	-	74	-25.55	260	281	V
	* 1.404	32.68	MAv1	28.7	-25	36.38	54	-17.62	-	-	260	281	V
6	* 8.342	37.99	PK2	36.5	-25.4	49.09	-	-	74	-24.91	250	300	V
	* 8.339	25.99	MAv1	36.5	-25.4	37.09	54	-16.91	-	-	250	300	V
5	1.73	44.65	PK2	28.7	-24.2	49.15	-	-	-	-	245	277	V
2	5.229	40.73	PK2	34.9	-29.2	46.43	-	-	-	-	280	326	H
3	5.944	40.7	PK2	35.3	-28.6	47.4	-	-	-	-	265	340	H

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

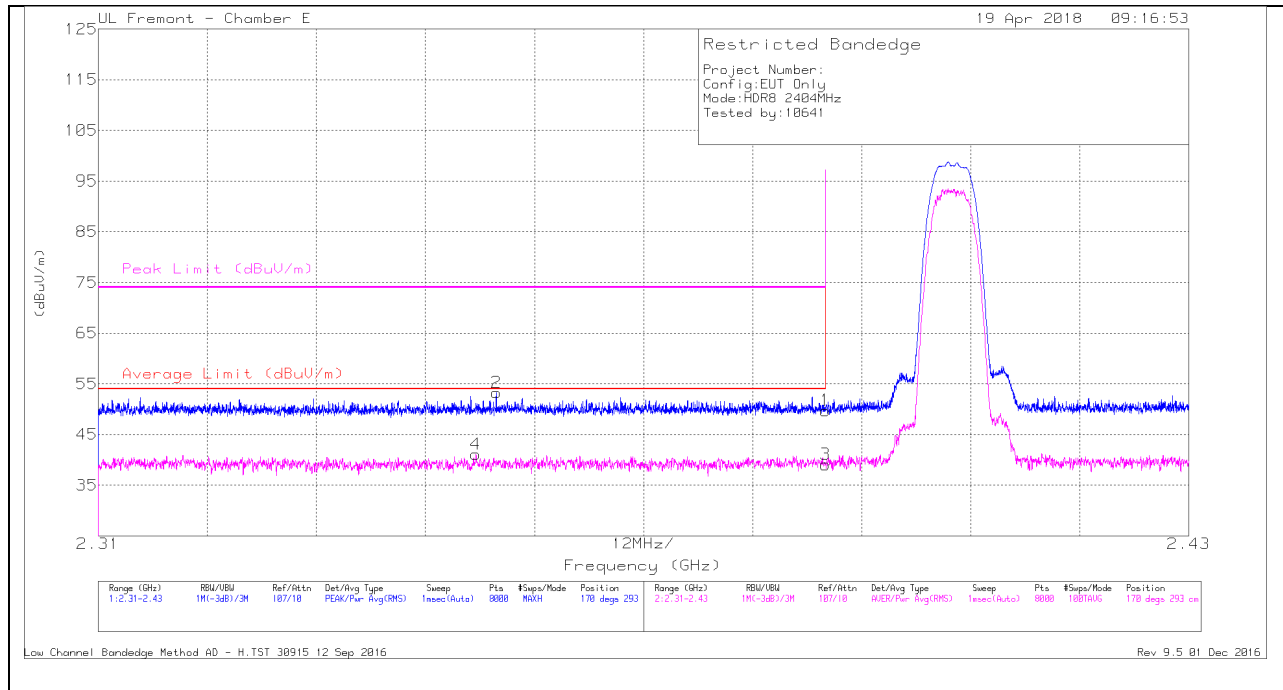
*.TST 30915 16 Jun 2015

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Antenna 3

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 2.39	40.33	Pk	32	-22.6	49.73	-	-	74	-24.27	170	293	H
2	* 2.354	44.03	Pk	31.9	-22.7	53.23	-	-	74	-20.77	170	293	H
3	* 2.39	29.66	RMS	32	-22.6	39.06	54	-14.94	-	-	170	293	H
4	* 2.352	32	RMS	31.8	-22.7	41.1	54	-12.9	-	-	170	293	H

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

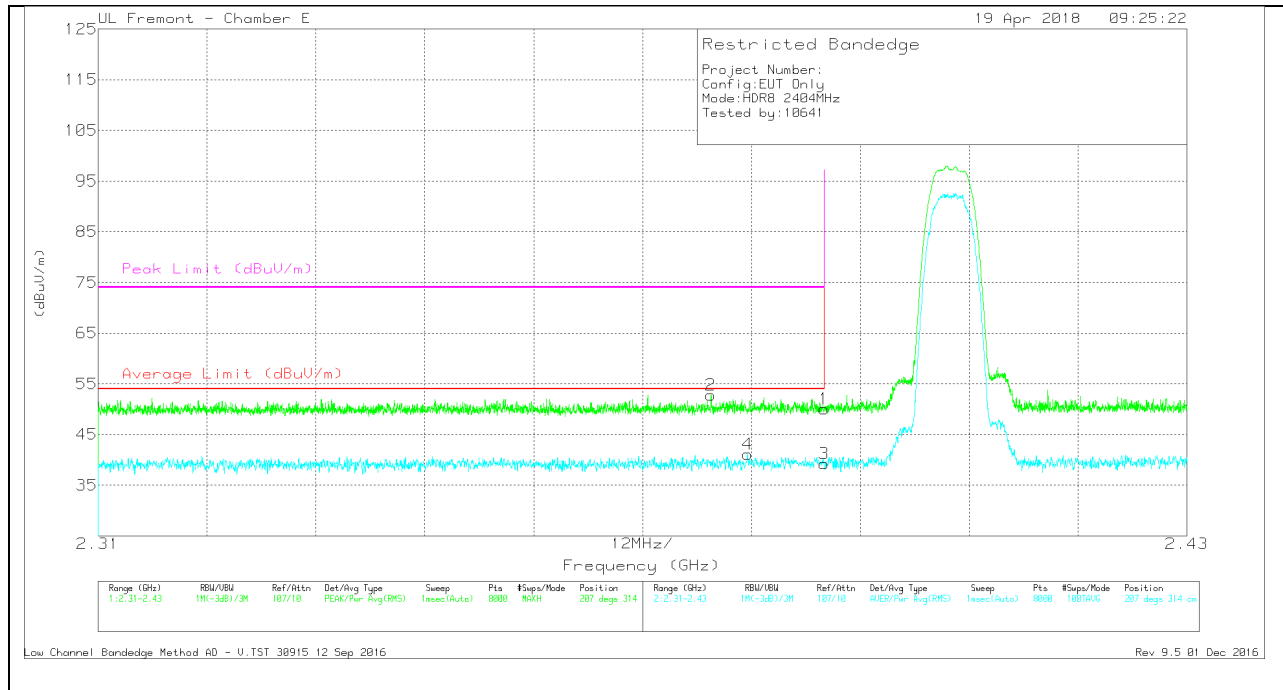
Pk - Peak detector

RMS - RMS detection

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

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dBm)	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	40.63	Pk	32	-22.6	50.03	-	-	74	-23.97	207	314	V
2	* 2.378	43.42	Pk	31.9	-22.6	52.72	-	-	74	-21.28	207	314	V
3	* 2.39	29.89	RMS	32	-22.6	39.29	54	-14.71	-	-	207	314	V
4	* 2.382	31.79	RMS	31.9	-22.6	41.09	54	-12.91	-	-	207	314	V

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

Pk - Peak detector

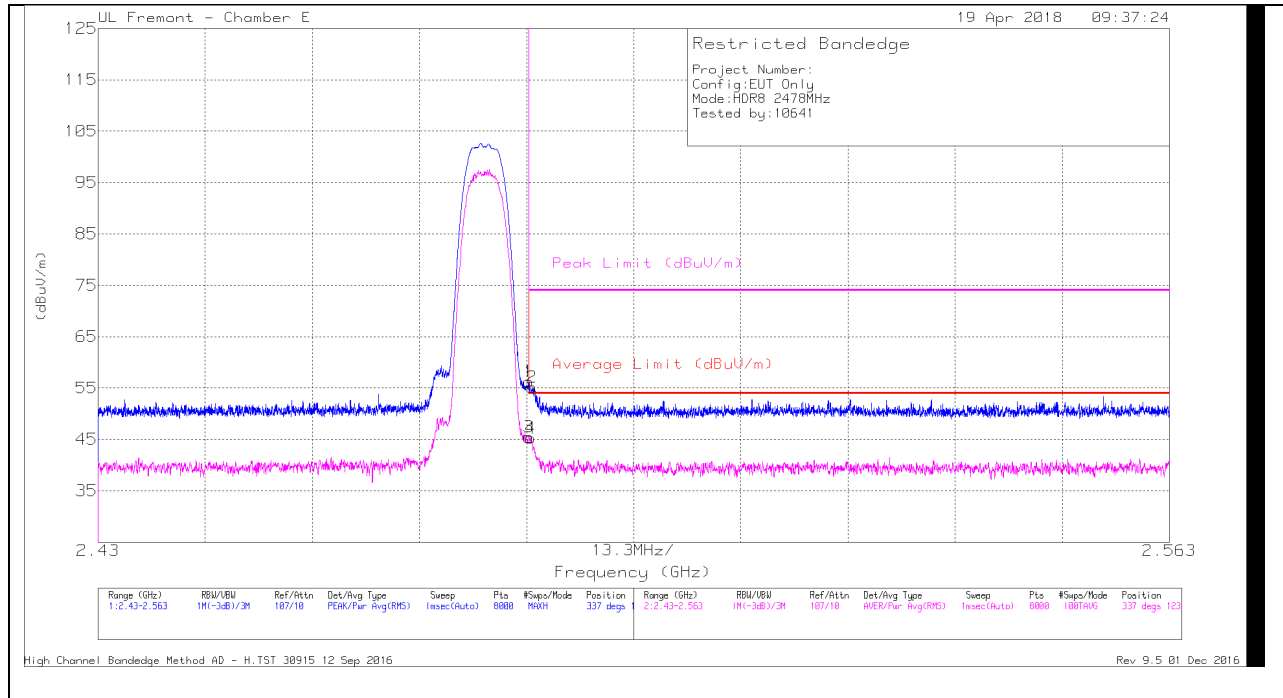
RMS - RMS detection

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BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	46.44	Pk	32.1	-22.3	56.24	-	-	74	-17.76	337	123	H
2	* 2.484	45.31	Pk	32.1	-22.3	55.11	-	-	74	-18.89	337	123	H
3	* 2.484	35.65	RMS	32.1	-22.3	45.45	54	-8.55	-	-	337	123	H
4	* 2.484	35.42	RMS	32.1	-22.3	45.22	54	-8.78	-	-	337	123	H

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

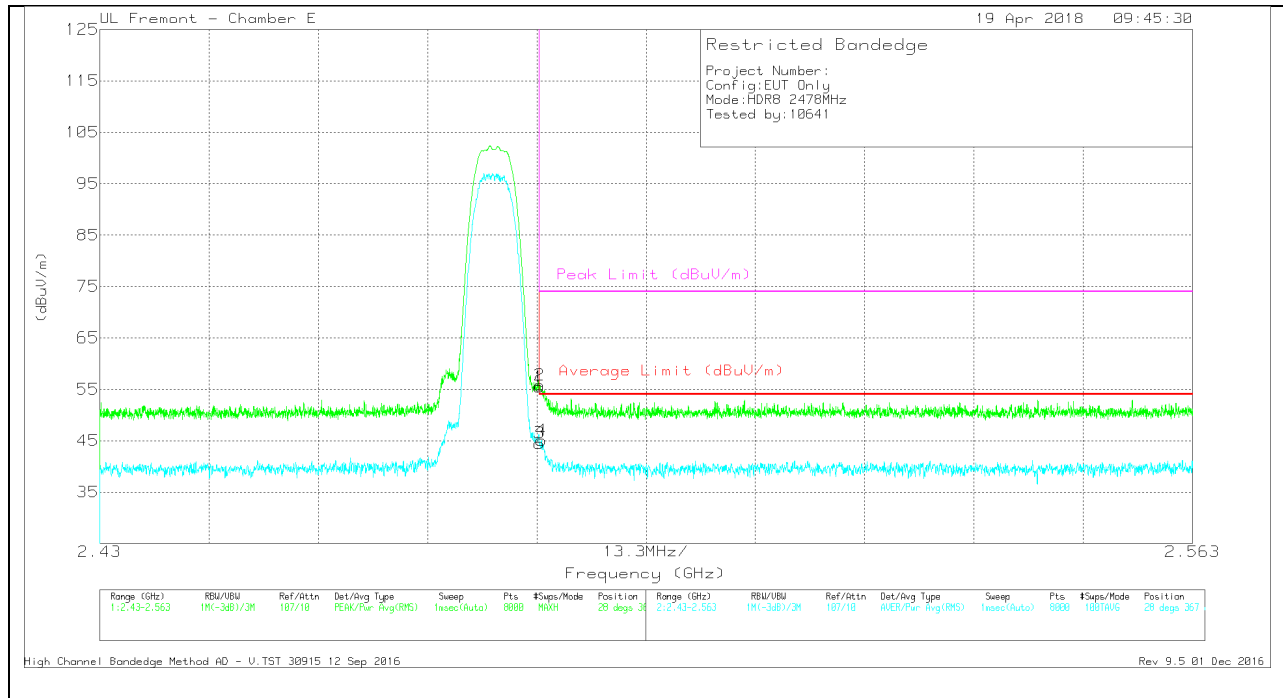
Pk - Peak detector

RMS - RMS detection

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AF T346 (dB/m)	Amp/Cbl/Fitr/Par d (dB)	Corrected Reading (dBUV/m)	Average Limit (dBUV/m)	Margin (dB)	Peak Limit (dBUV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	45.63	Pk	32.1	-22.3	55.43	-	-	74	-18.57	28	367	V
2	* 2.484	46	Pk	32.1	-22.3	55.8	-	-	74	-18.2	28	367	V
3	* 2.484	34.72	RMS	32.1	-22.3	44.52	54	-9.48	-	-	28	367	V
4	* 2.484	35.24	RMS	32.1	-22.3	45.04	54	-8.96	-	-	28	367	V

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

Pk - Peak detector

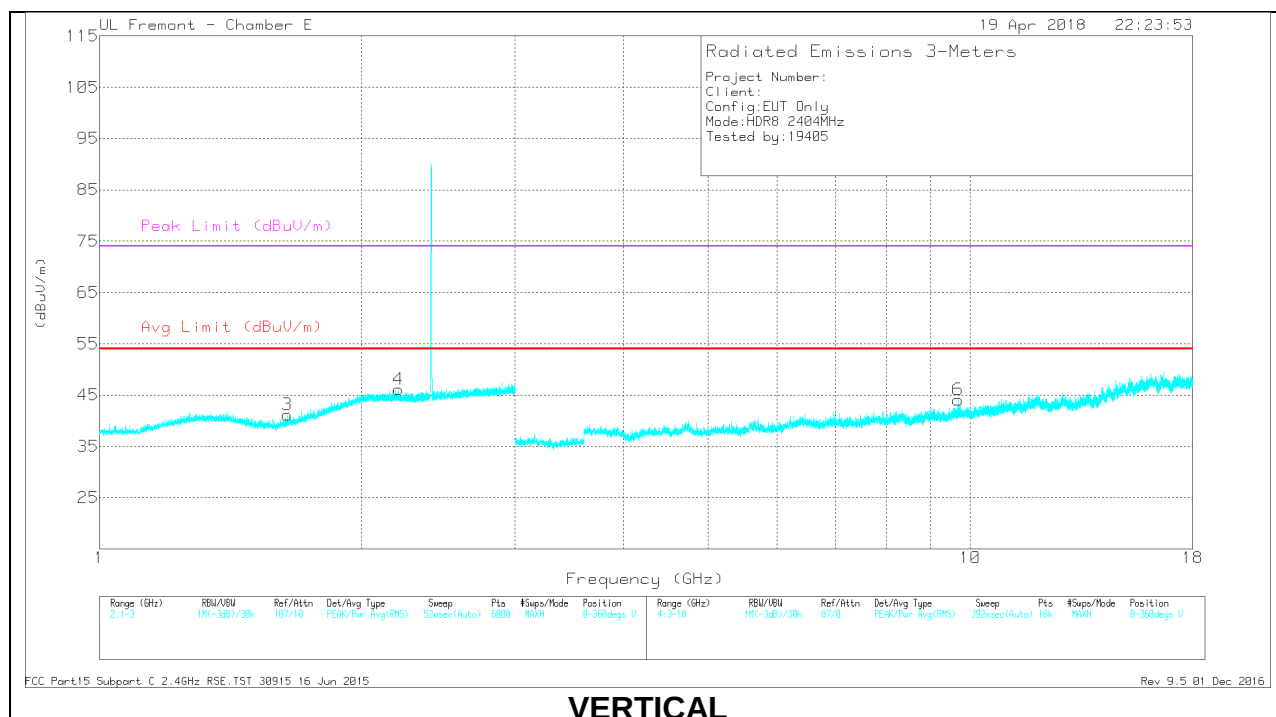
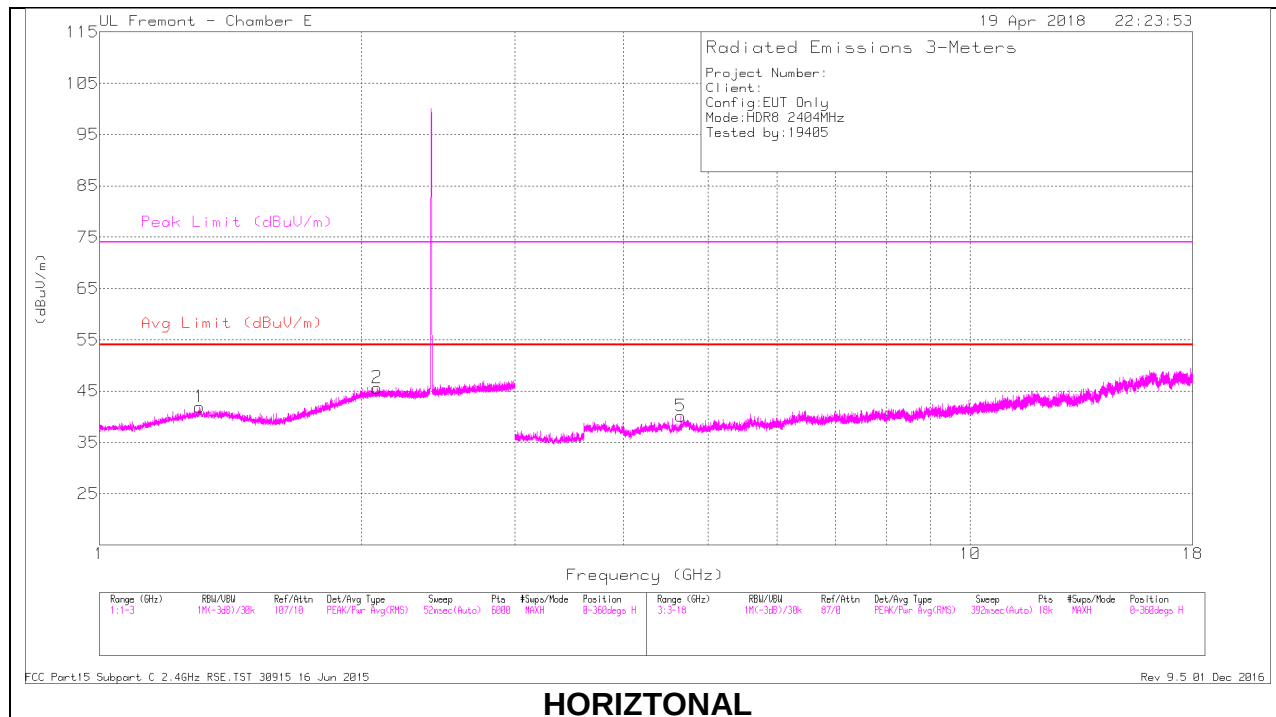
RMS - RMS detection

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HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Markers	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.301	46.7	PK2	28.9	-25.3	50.3	-	-	74	-23.7	290	142	H
	* 1.3	32.77	MAv1	28.9	-25.3	36.37	54	-17.63	-	-	290	142	H
4	* 2.204	43.51	PK2	32.1	-23	52.61	-	-	74	-21.39	198	194	V
	* 2.205	31.06	MAv1	32.1	-23	40.16	54	-13.84	-	-	198	194	V
5	* 4.653	42.32	PK2	34.4	-29.7	47.02	-	-	74	-26.98	267	174	H
	* 4.654	30.21	MAv1	34.4	-29.7	34.91	54	-19.09	-	-	267	174	H
3	1.644	44.59	PK2	27.7	-24.3	47.99	-	-	-	-	311	120	V
2	2.084	43.63	PK2	32.1	-23.3	52.43	-	-	-	-	290	172	H
6	9.68	36.76	PK2	37.3	-24.7	49.36	-	-	-	-	271	126	V

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

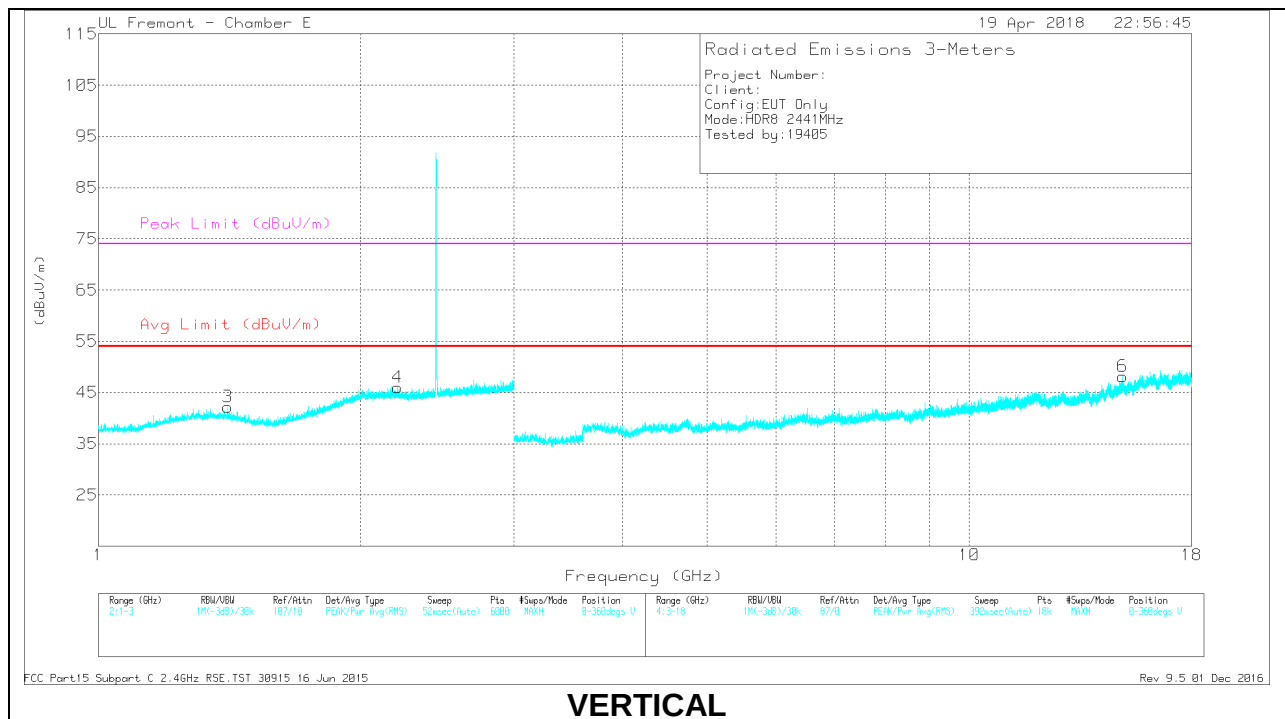
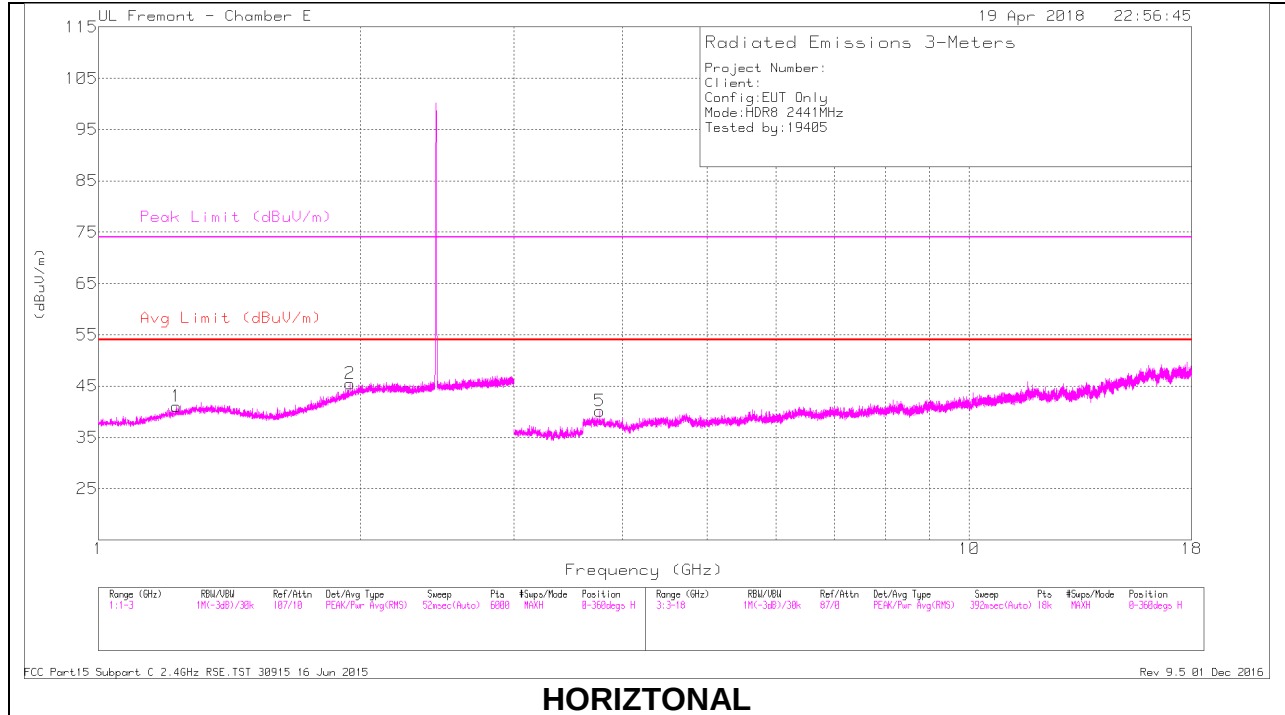
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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MID CHANNEL RESULTS



RADIATED EMISSIONS

Markers	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.229	44.92	PK2	28.2	-25.4	47.72	-	-	74	-26.28	336	149	H
	* 1.228	33.01	MAv1	28.2	-25.4	35.81	54	-18.19	-	-	336	149	H
3	* 1.406	44.91	PK2	28.7	-25	48.61	-	-	74	-25.39	261	188	V
	* 1.405	32.69	MAv1	28.7	-25	36.39	54	-17.61	-	-	261	188	V
4	* 2.206	43.57	PK2	32.1	-23	52.67	-	-	74	-21.33	213	141	V
	* 2.205	31.16	MAv1	32.1	-23	40.26	54	-13.74	-	-	213	141	V
5	* 3.767	40.71	PK2	33.6	-29.4	44.91	-	-	74	-29.09	183	130	H
	* 3.767	29.31	MAv1	33.6	-29.4	33.51	54	-20.49	-	-	183	130	H
2	1.947	43.57	PK2	31.4	-23.6	51.37	-	-	-	-	294	172	H
6	15.005	36.3	PK2	41.4	-22.6	55.1	-	-	-	-	167	113	V

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

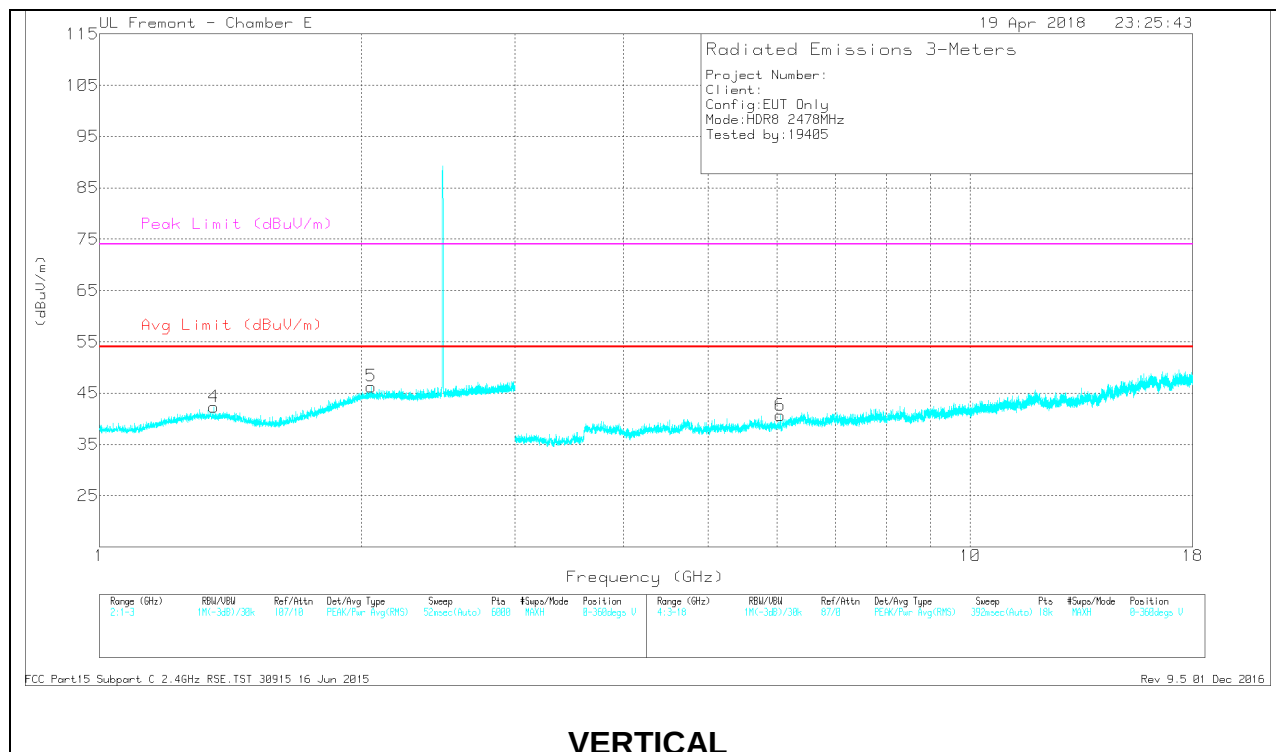
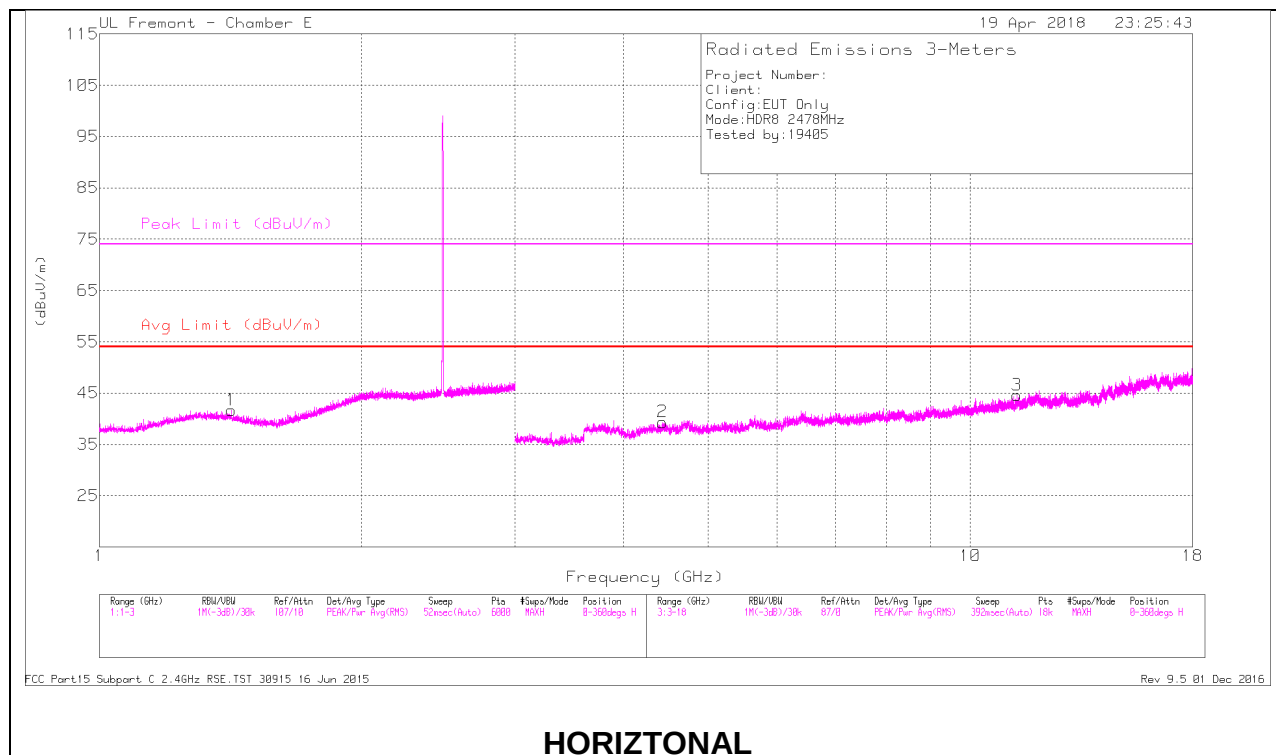
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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

Rev 9.5 01 Dec 2016

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Markers	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.42	45.48	PK2	28.5	-25	48.98	-	-	74	-25.02	122	180	H
	* 1.419	32.44	MAv1	28.6	-25	36.04	54	-17.96	-	-	122	180	H
4	* 1.351	44.84	PK2	28.8	-25.2	48.44	-	-	74	-25.56	213	149	V
	* 1.353	32.79	MAv1	28.8	-25.2	36.39	54	-17.61	-	-	213	149	V
3	* 11.307	35.45	PK2	38.7	-23.2	50.95	-	-	74	-23.05	180	182	H
	* 11.306	23.34	MAv1	38.7	-23.2	38.84	54	-15.16	-	-	180	182	H
5	2.052	43.53	PK2	32.1	-23.2	52.43	-	-	-	-	184	140	V
2	4.433	41.36	PK2	34.2	-29.3	46.26	-	-	-	-	172	126	H
6	6.048	40.82	PK2	35.4	-29	47.22	-	-	-	-	143	100	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

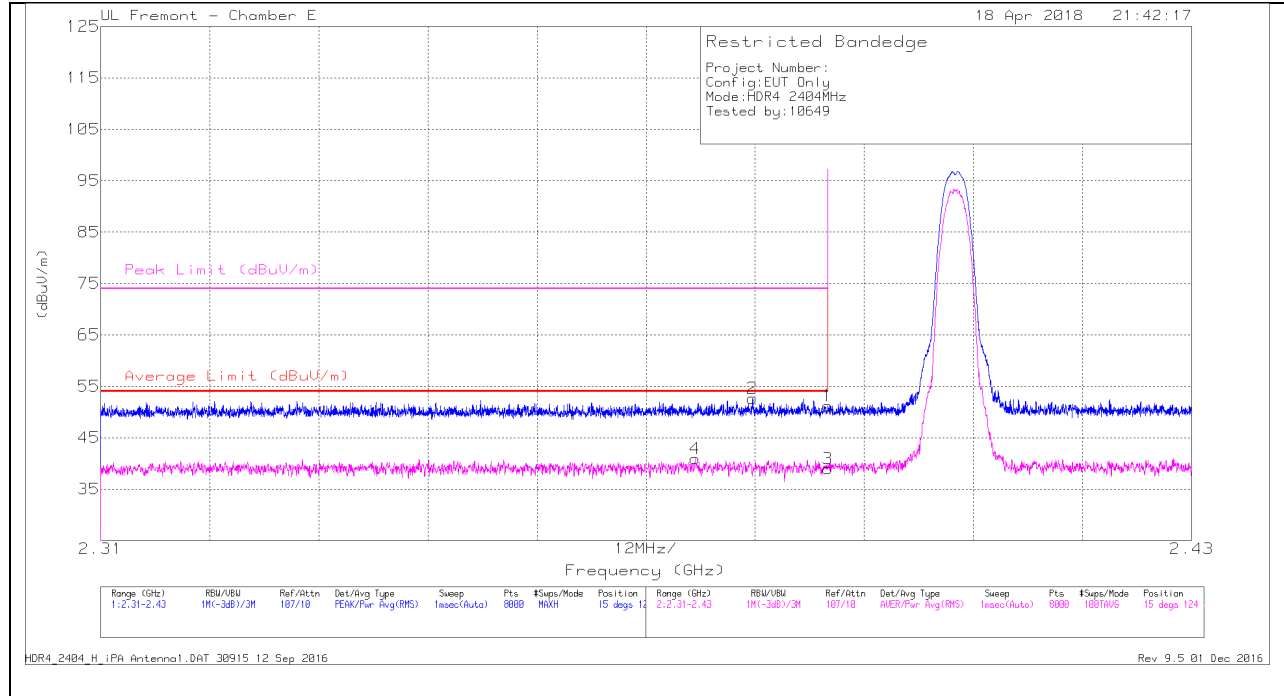
Rev 9.5 01 Dec 2016

9.2.3. LOW POWER HDR4

Antenna 4

BANDEGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Par 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	* 2.39	41.8	Pk	32	-22.6	51.2	-	-	74	-22.8	15	124	H
2	* 2.382	43.32	Pk	31.9	-22.6	52.62	-	-	74	-21.38	15	124	H
3	* 2.39	29.54	RMS	32	-22.6	38.94	54	-15.06	-	-	15	124	H
4	* 2.375	31.7	RMS	31.9	-22.7	40.9	54	-13.1	-	-	15	124	H

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

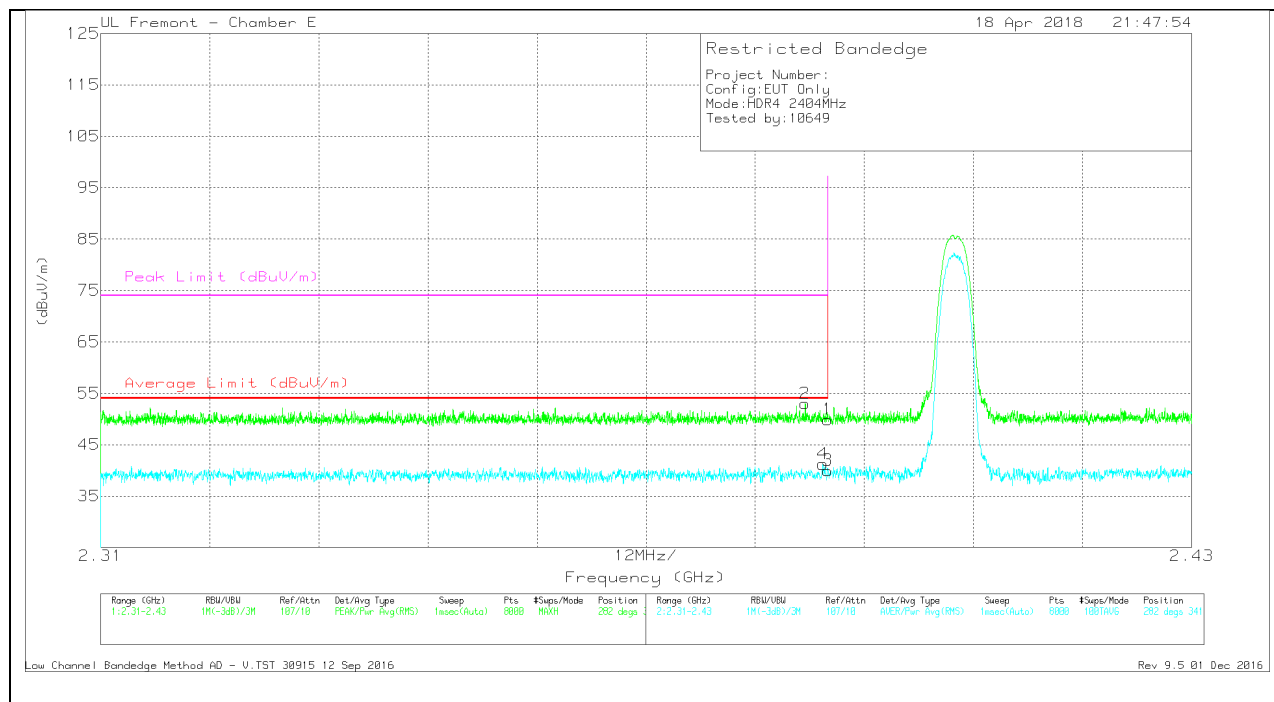
Pk - Peak detector

RMS - RMS detection

HDR4_2404_H_iPA Antenna1.DAT 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Ampl/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	40.5	Pk	32	-22.6	49.9	-	-	74	-24.1	282	341	V
2	* 2.388	43.68	Pk	31.9	-22.6	52.98	-	-	74	-21.02	282	341	V
3	* 2.39	30.59	RMS	32	-22.6	39.99	54	-14.01	-	-	282	341	V
4	* 2.389	31.85	RMS	32	-22.6	41.25	54	-12.75	-	-	282	341	V

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

Pk - Peak detector

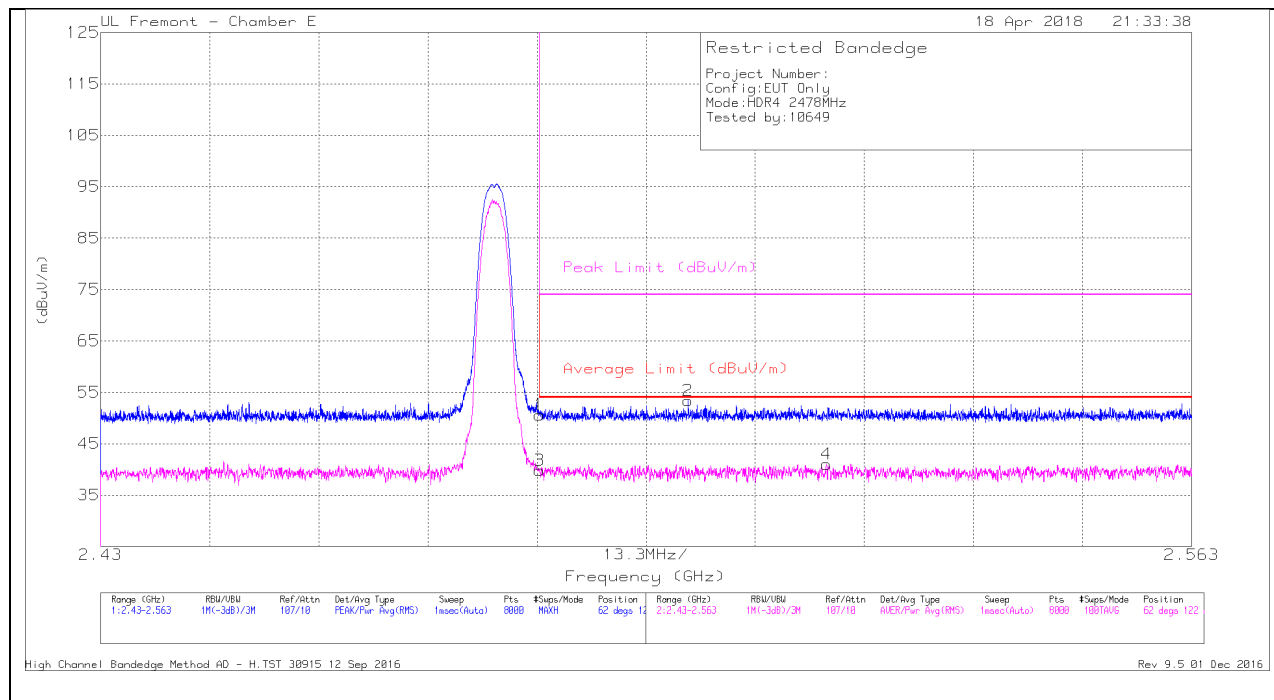
RMS - RMS detection

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

Rev 9.5 01 Dec 2016

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	40.82	Pk	32.1	-22.3	50.62	-	-	74	-23.38	62	122	H
3	* 2.484	30	RMS	32.1	-22.3	39.8	54	-14.2	-	-	62	122	H
2	2.502	43.66	Pk	32.1	-22.4	53.36	-	-	74	-20.64	62	122	H
4	2.518	31.1	RMS	32.1	-22.2	41	54	-13	-	-	62	122	H

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

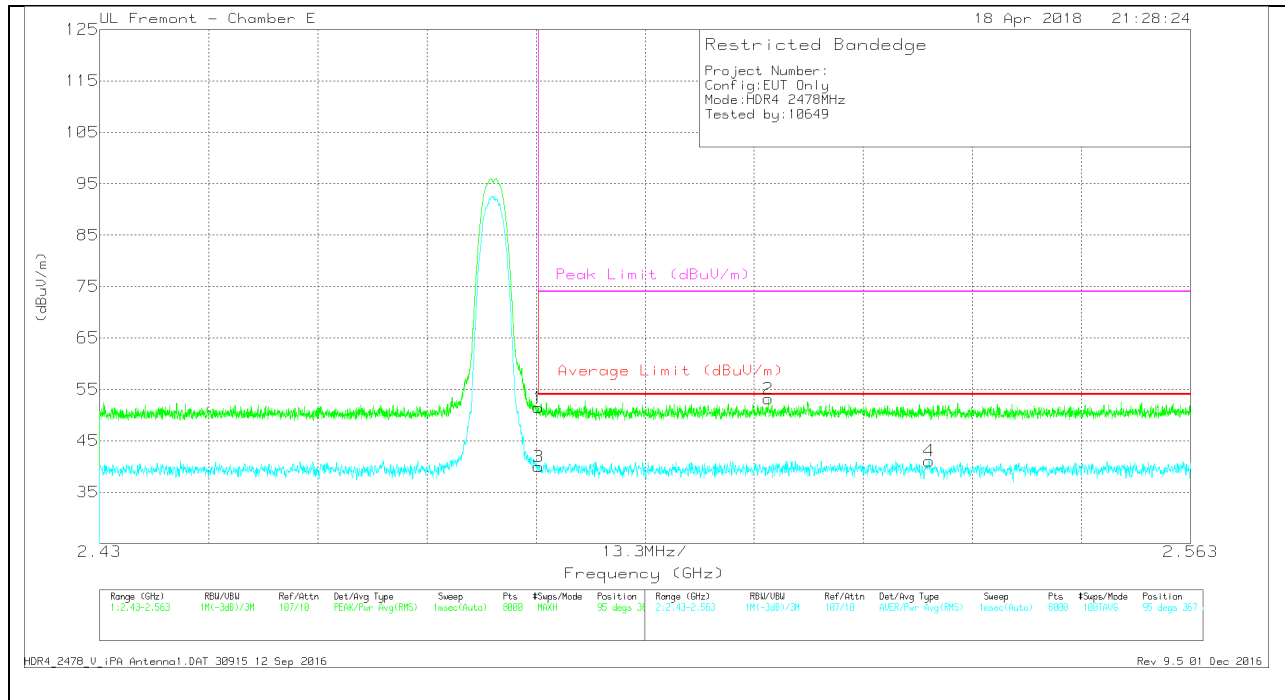
Pk - Peak detector

RMS - RMS detection

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

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fitr/Par 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	41.62	Pk	32.1	-22.3	51.42	-	-	74	-22.58	95	367	V
3	* 2.484	30.13	RMS	32.1	-22.3	39.93	54	-14.07	-	-	95	367	V
2	2.512	43.23	Pk	32.1	-22.2	53.13	-	-	74	-20.87	95	367	V
4	2.531	31.27	RMS	32.1	-22.3	41.07	54	-12.93	-	-	95	367	V

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

Pk - Peak detector

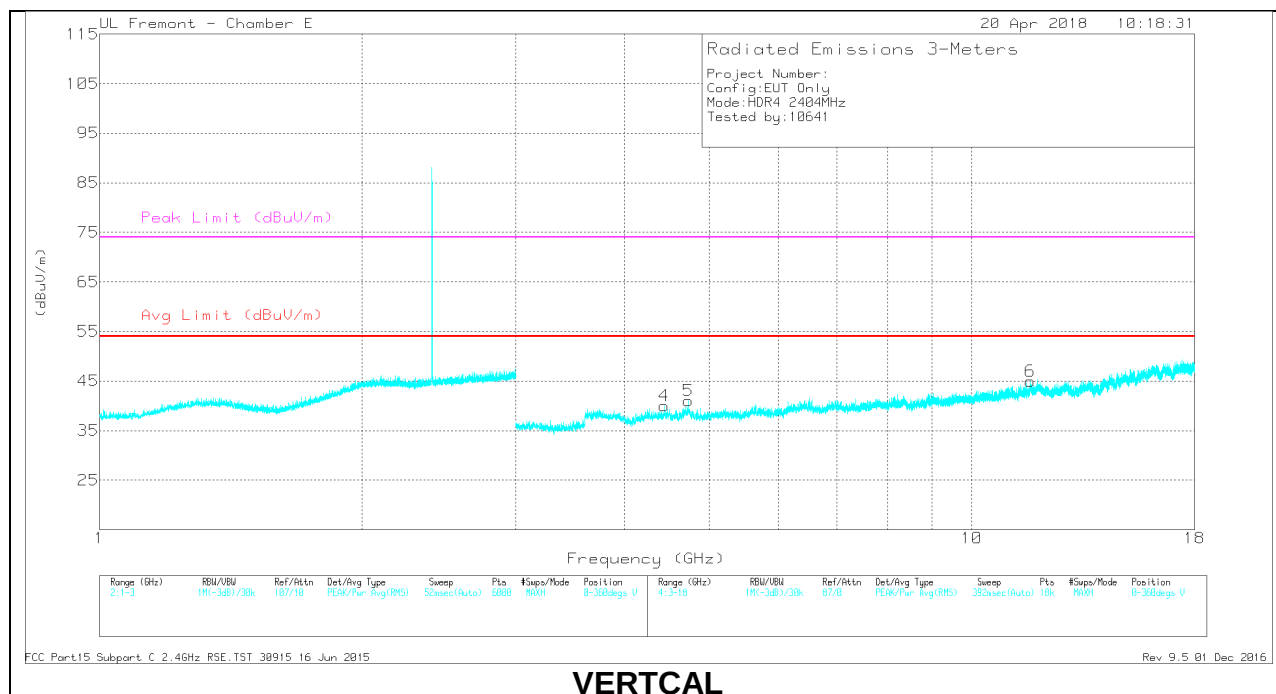
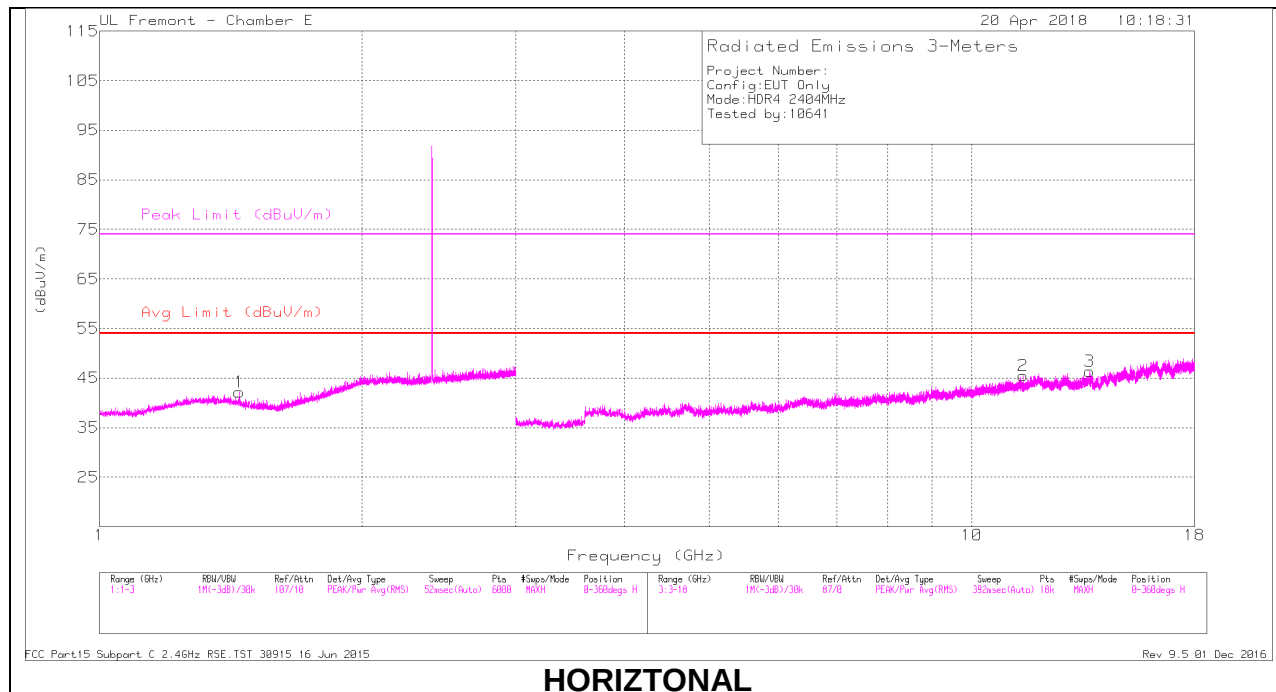
RMS - RMS detection

HDR4_2478_V_iPA Antenna1.DAT 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 1.439	45	PK2	28.3	-24.9	48.4	-	-	74	-25.6	298	360	H
	* 1.444	32.23	MAv1	28.3	-24.9	35.63	54	-18.37	-	-	298	360	H
2	* 11.449	35.84	PK2	38.6	-22.9	51.54	-	-	74	-22.46	349	157	H
	* 11.45	22.92	MAv1	38.6	-22.9	38.62	54	-15.38	-	-	349	157	H
5	* 4.731	41.56	PK2	34.4	-28.2	47.76	-	-	74	-26.24	153	332	V
	* 4.731	29.22	MAv1	34.4	-28.3	35.32	54	-18.68	-	-	153	332	V
6	* 11.667	35.1	PK2	39	-22.1	52	-	-	74	-22	71	159	V
	* 11.669	21.95	MAv1	39	-22.1	38.85	54	-15.15	-	-	71	159	V
4	4.437	41.6	PK2	34.2	-29.4	46.4	-	-	-	-	87	230	V
3	13.641	36.35	PK2	39.6	-23.6	52.35	-	-	-	-	5	263	H

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

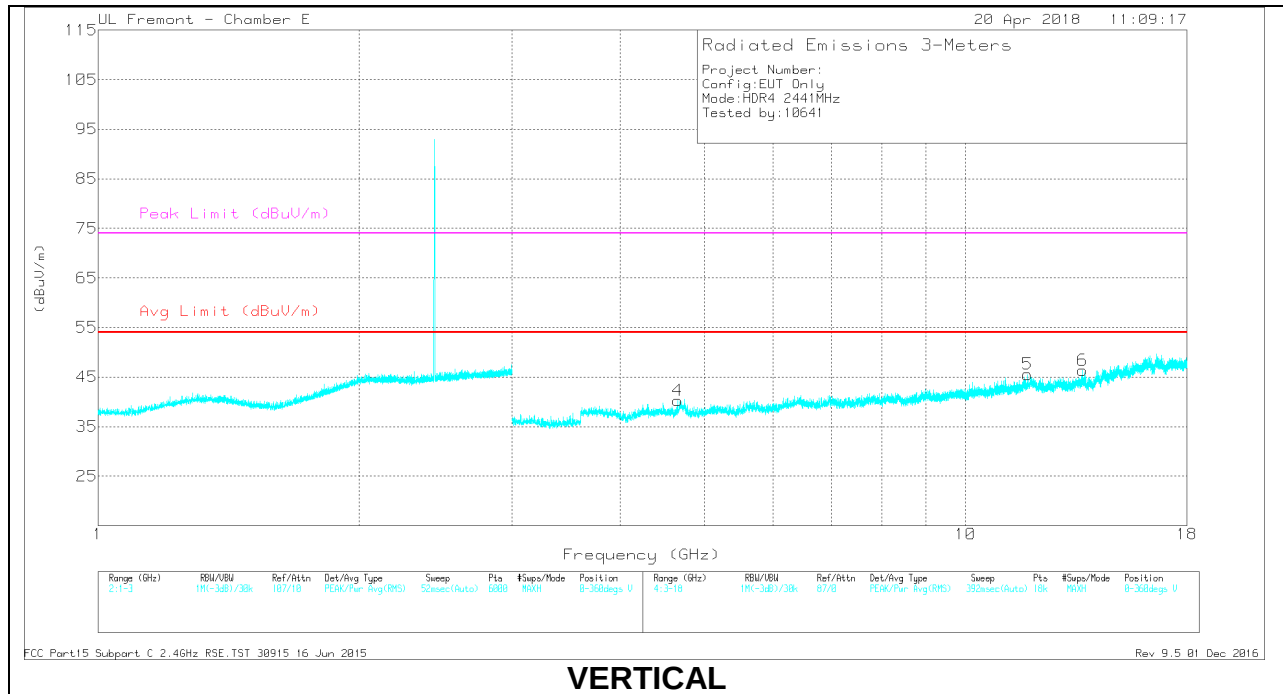
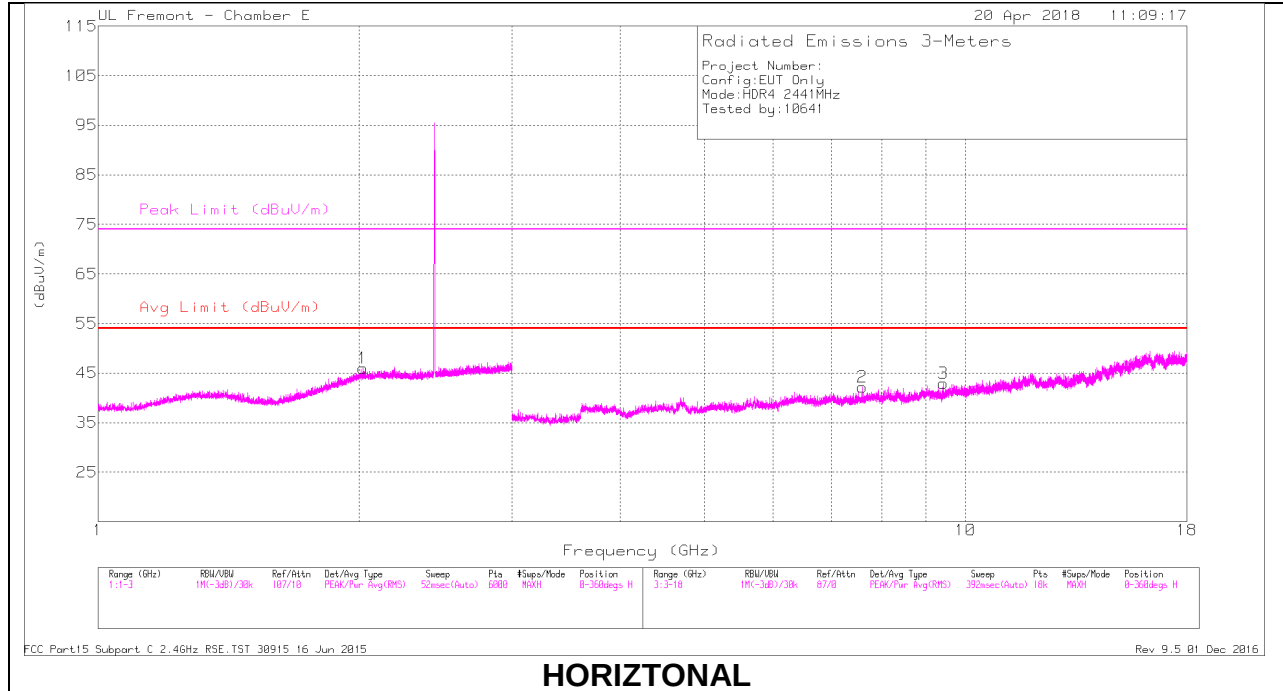
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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

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MID CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 7.607	37.72	PK2	36.3	-25.8	48.22	-	-	74	-25.78	299	378	H
	* 7.604	24.93	MAv1	36.3	-25.7	35.53	54	-18.47	-	-	299	378	H
3	* 9.43	37.08	PK2	37.2	-24.5	49.78	-	-	74	-24.22	257	138	H
	* 9.428	23.9	MAv1	37.2	-24.6	36.5	54	-17.5	-	-	257	138	H
4	* 4.655	42.29	PK2	34.4	-29.6	47.09	-	-	74	-26.91	67	172	V
	* 4.655	29.57	MAv1	34.4	-29.6	34.37	54	-19.63	-	-	67	172	V
5	* 11.787	35.91	PK2	39.4	-23.4	51.91	-	-	74	-22.09	159	165	V
	* 11.787	22.59	MAv1	39.4	-23.4	38.59	54	-15.41	-	-	159	165	V
1	2.019	44.27	PK2	32.1	-23.4	52.97	-	-	-	-	27	252	H
6	13.641	36.99	PK2	39.6	-23.6	52.99	-	-	-	-	56	100	V

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

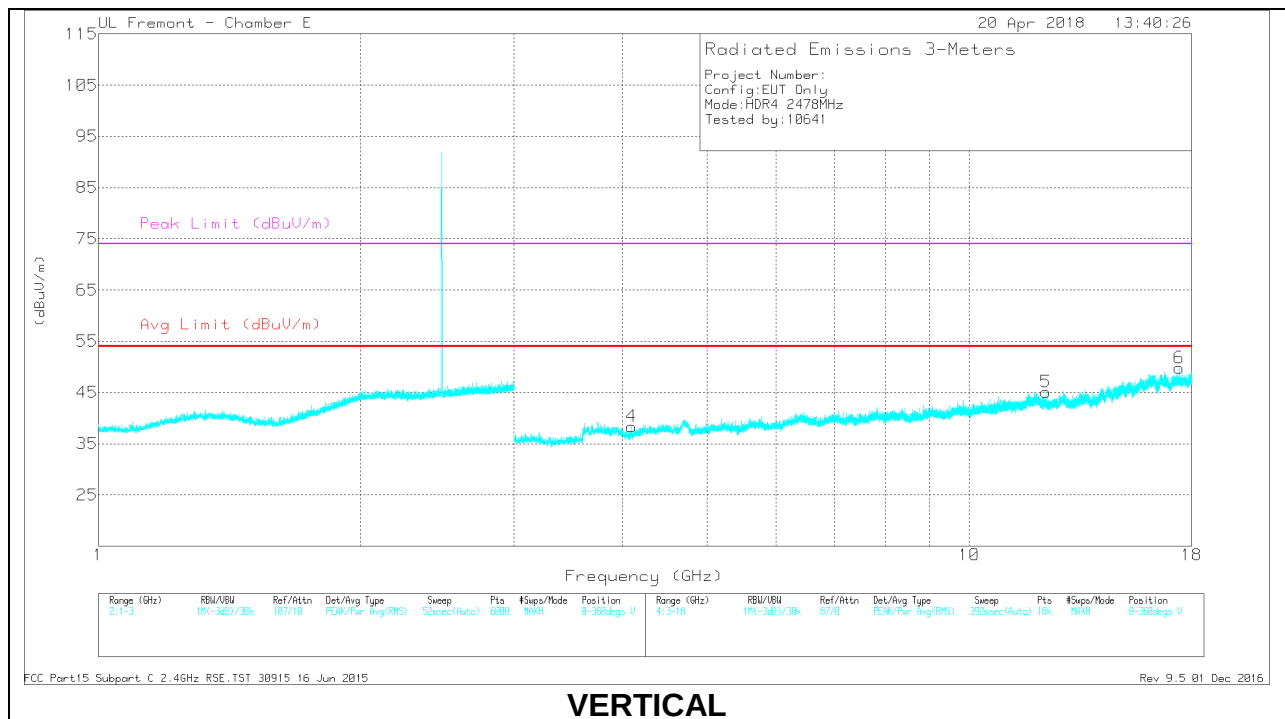
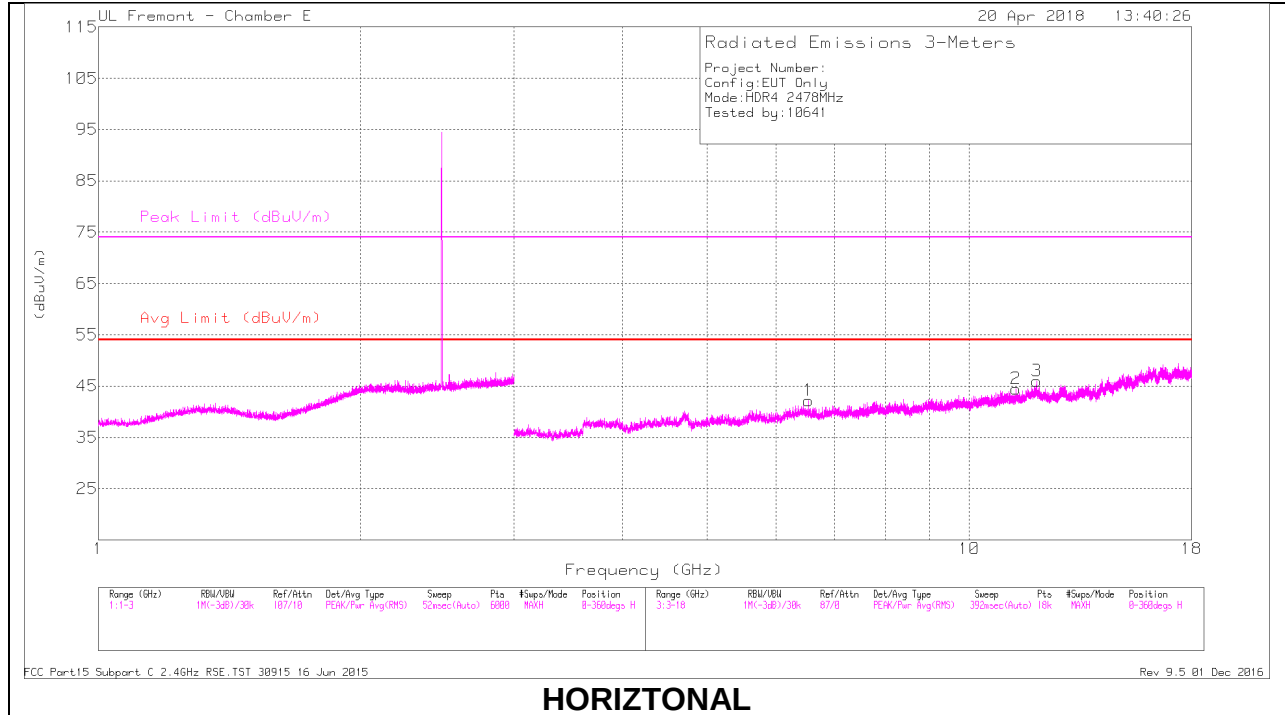
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 11.302	35.89	PK2	38.7	-23.2	51.39	-	-	74	-22.61	2	175	H
	* 11.302	22.77	MAv1	38.7	-23.2	38.27	54	-15.73	-	-	2	175	H
3	* 11.946	34.76	PK2	39.6	-22.3	52.06	-	-	74	-21.94	189	109	H
	* 11.949	21.75	MAv1	39.6	-22.3	39.05	54	-14.95	-	-	189	109	H
4	* 4.093	41.63	PK2	33.6	-30.2	45.03	-	-	74	-28.97	64	151	V
	* 4.096	29.63	MAv1	33.6	-30.2	33.03	54	-20.97	-	-	64	151	V
5	* 12.246	35.42	PK2	39	-23.1	51.32	-	-	74	-22.68	356	176	V
	* 12.244	22.4	MAv1	39	-23.1	38.3	54	-15.7	-	-	356	176	V
1	6.532	39.21	PK2	36	-27.6	47.61	-	-	-	-	92	147	H
6	17.409	36.46	PK2	41.6	-20.1	57.96	-	-	-	-	256	118	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

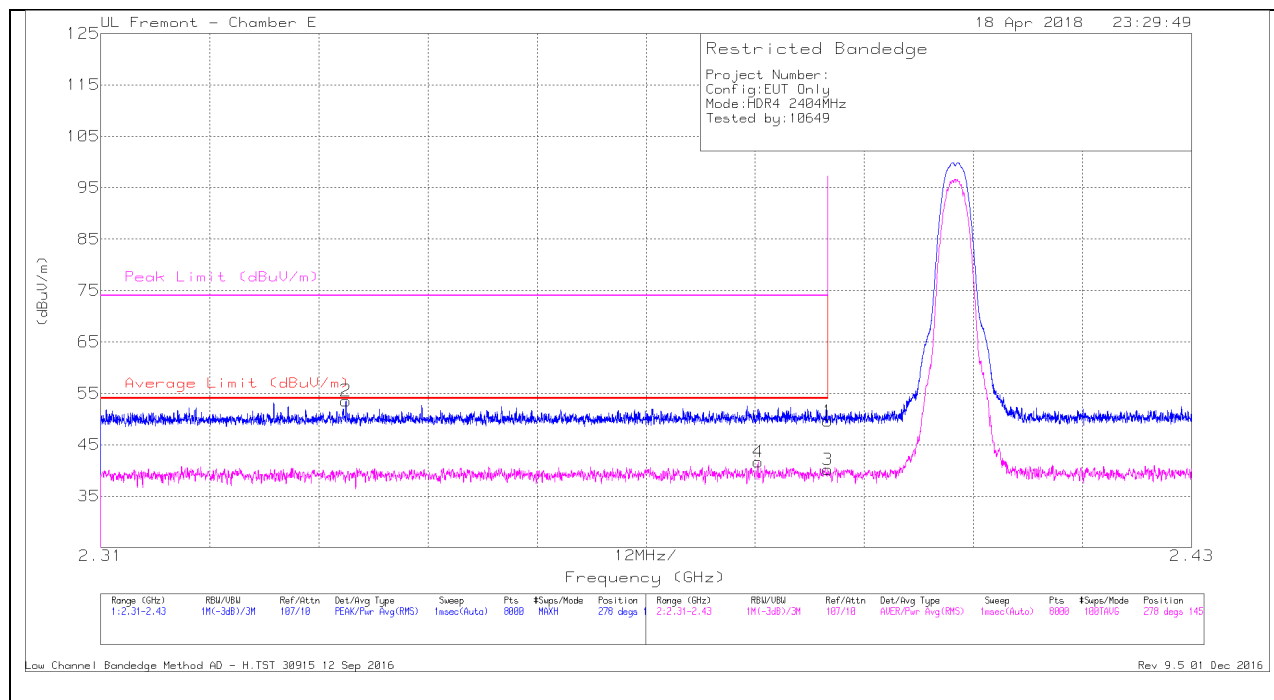
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Antenna 3

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Par 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	* 2.39	40.2	Pk	32	-22.6	49.6	-	-	74	-24.4	278	145	H
2	* 2.337	44.43	Pk	31.8	-22.7	53.53	-	-	74	-20.47	278	145	H
3	* 2.39	30.76	RMS	32	-22.6	40.16	54	-13.84	-	-	278	145	H
4	* 2.382	32.35	RMS	31.9	-22.6	41.65	54	-12.35	-	-	278	145	H

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

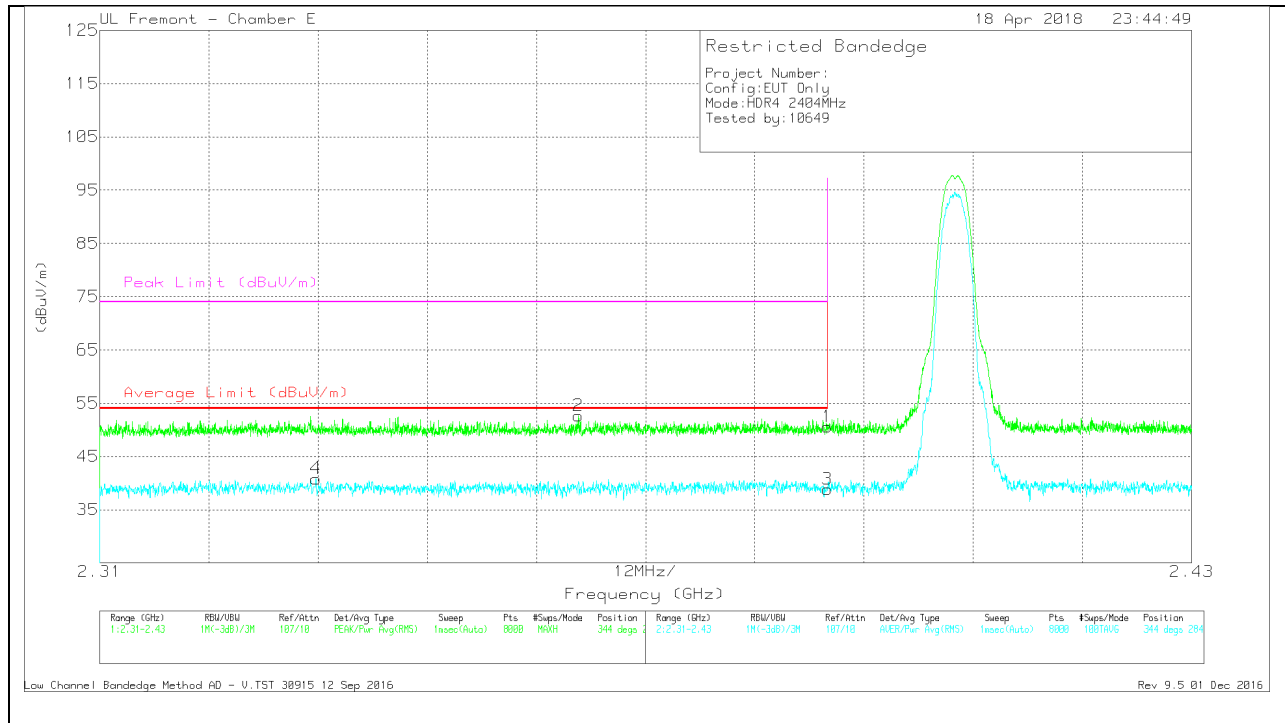
Pk - Peak detector

RMS - RMS detection

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

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dBm)	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
4	* 2.334	31.72	RMS	31.8	-22.7	40.82	54	-13.18	-	-	344	284	V
2	* 2.363	43.43	Pk	31.9	-22.7	52.63	-	-	74	-21.37	344	284	V
1	* 2.39	41.18	Pk	32	-22.6	50.58	-	-	74	-23.42	344	284	V
3	* 2.39	29.41	RMS	32	-22.6	38.81	54	-15.19	-	-	344	284	V

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

Pk - Peak detector

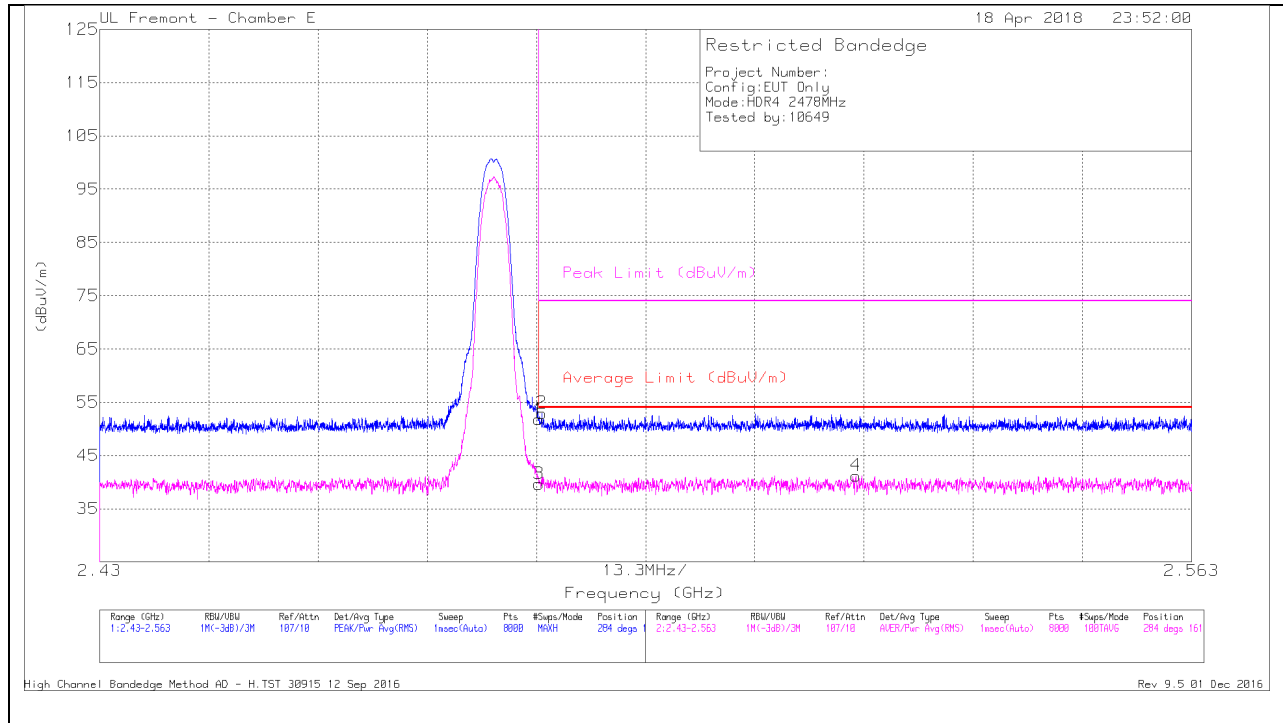
RMS - RMS detection

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

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BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fitr/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	* 2.484	41.98	Pk	32.1	-22.3	51.78	-	-	74	-22.22	284	161	H
2	* 2.484	43.14	PK	32.1	-22.3	52.94	-	-	74	-21.06	284	161	H
3	* 2.484	29.86	RMS	32.1	-22.3	39.66	54	-14.34	-	-	284	161	H
4	2.522	31.41	RMS	32.1	-22.3	41.21	54	-12.79	-	-	284	161	H

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

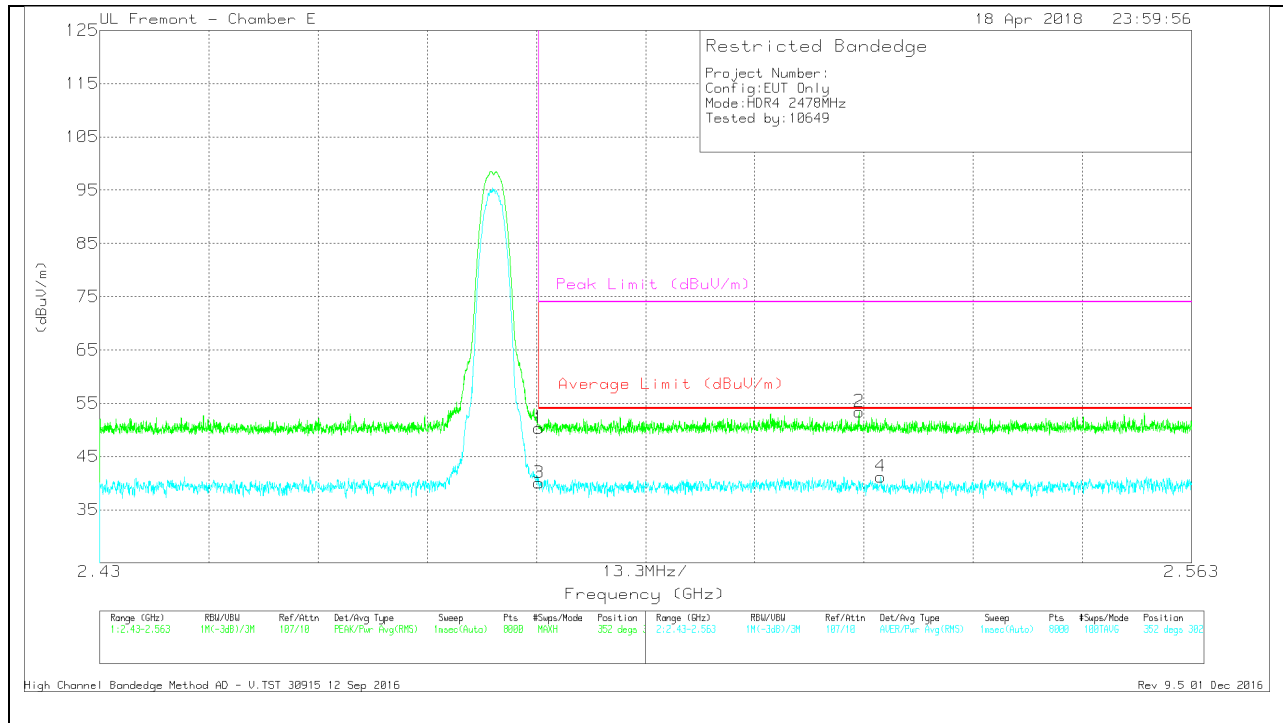
Pk - Peak detector

RMS - RMS detection

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

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AF T346 (dBm)	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	40.54	Pk	32.1	-22.3	50.34	-	-	74	-23.66	352	302	V
3	* 2.484	30.26	RMS	32.1	-22.3	40.06	54	-13.94	-	-	352	302	V
2	2.522	43.6	Pk	32.1	-22.3	53.4	-	-	74	-20.6	352	302	V
4	2.525	31.42	RMS	32.1	-22.3	41.22	54	-12.78	-	-	352	302	V

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

Pk - Peak detector

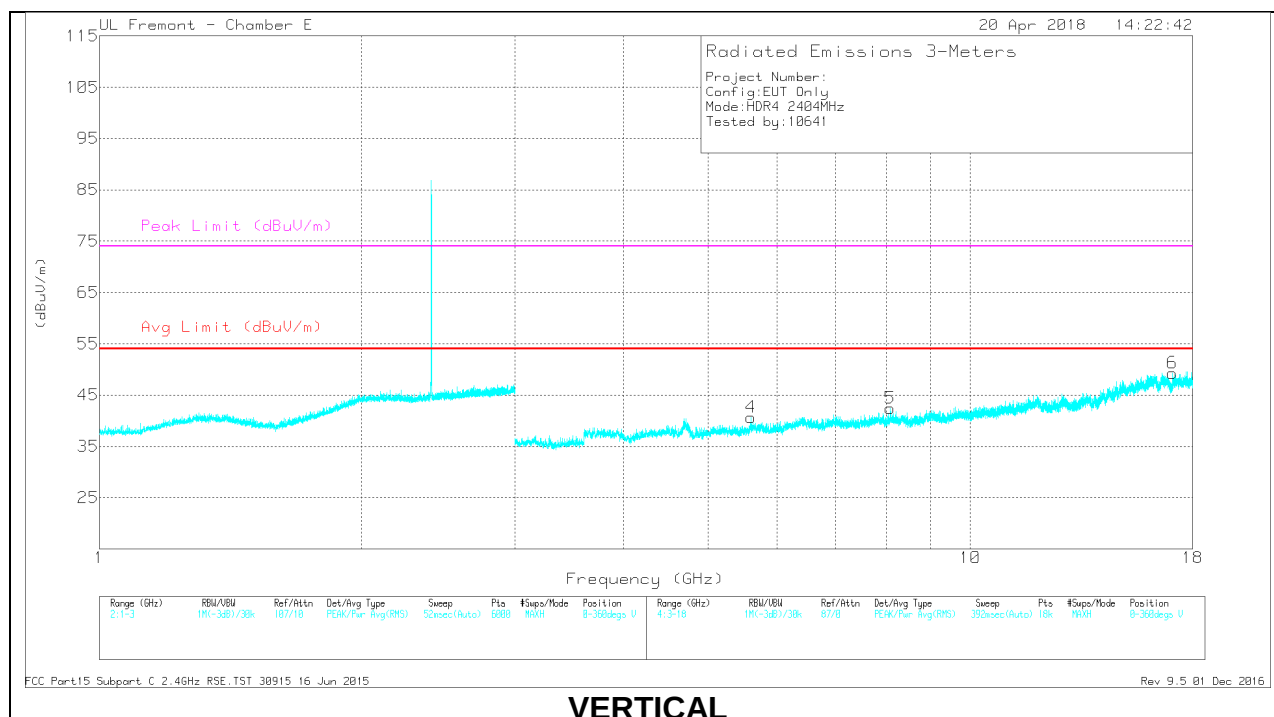
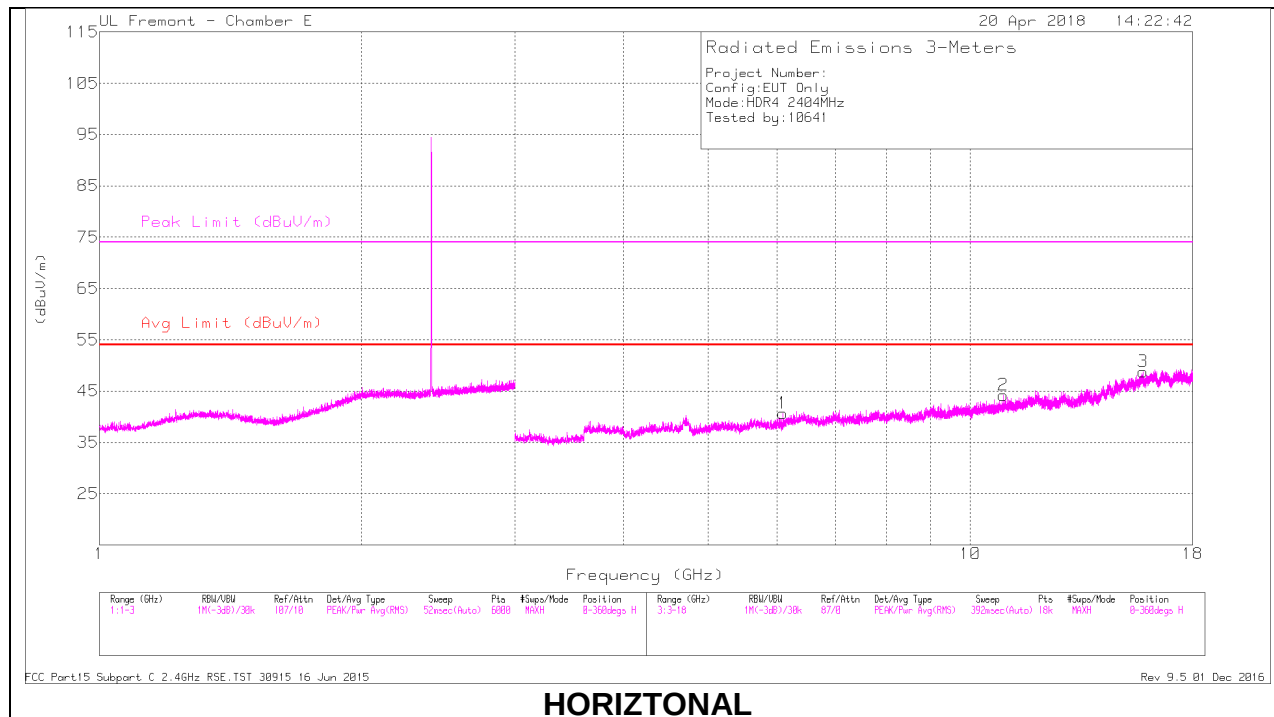
RMS - RMS detection

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

Rev 9.5 01 Dec 2016

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Maeker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 10.899	35.96	PK2	38.2	-22.7	51.46	-	-	74	-22.54	20	200	H
	* 10.905	22.34	MAv1	38.2	-22.5	38.04	54	-15.96	-	-	20	200	H
3	* 15.809	35.7	PK2	41.7	-22.2	55.2	-	-	74	-18.8	130	197	H
	* 15.79	22.94	MAv1	41.7	-22.6	42.04	54	-11.96	-	-	130	197	H
5	* 8.105	37.42	PK2	36.5	-25.1	48.82	-	-	74	-25.18	113	163	V
	* 8.096	24.89	MAv1	36.5	-25.2	36.19	54	-17.81	-	-	113	163	V
4	5.599	40.39	PK2	35	-28.4	46.99	-	-	-	-	174	256	V
1	6.092	39.76	PK2	35.5	-28.6	46.66	-	-	-	-	118	339	H
6	17.058	34.98	PK2	41.4	-21.4	54.98	-	-	-	-	130	124	V

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

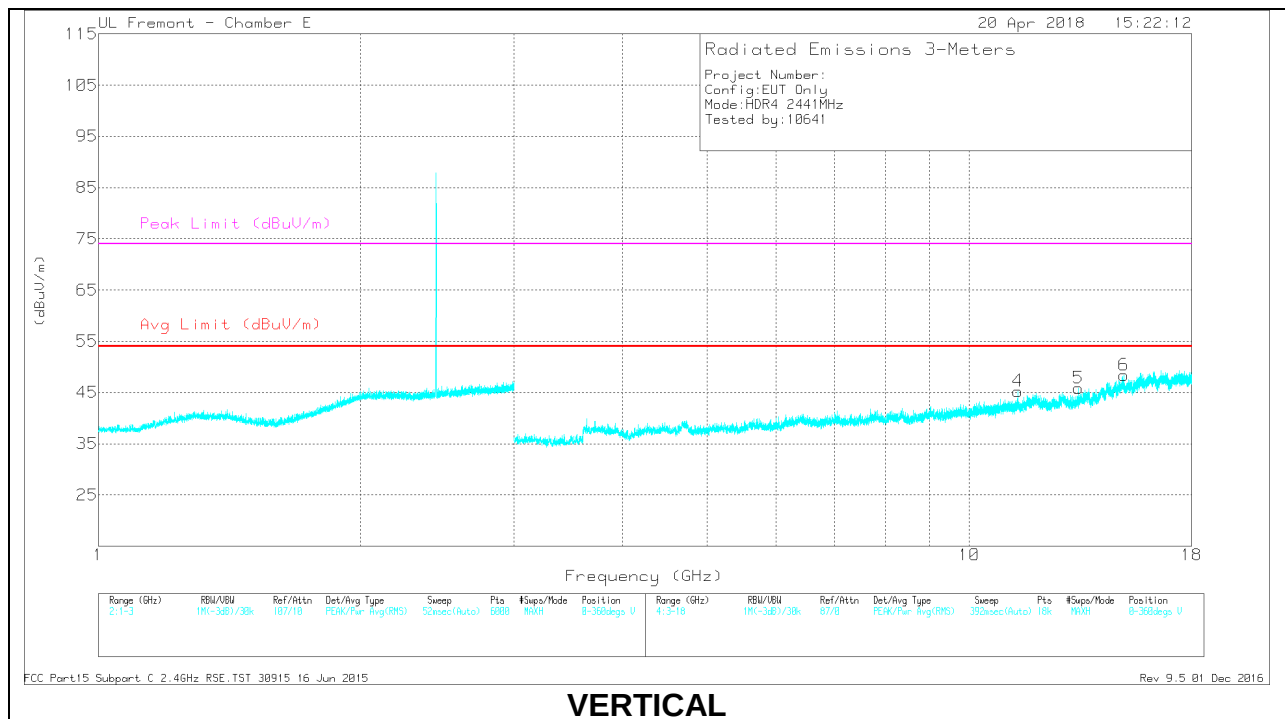
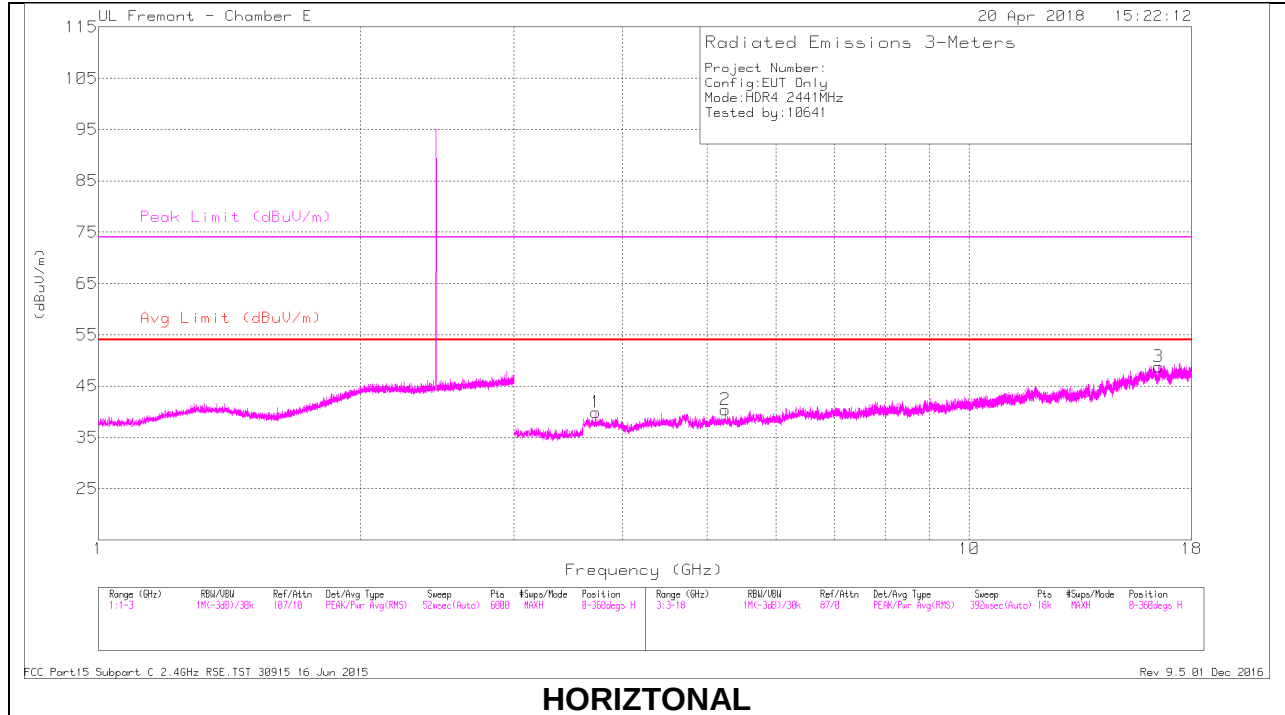
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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MID CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.719	41.82	PK2	33.5	-29.8	45.52	-	-	74	-28.48	252	329	H
	* 3.735	29.03	MAv1	33.6	-29.7	32.93	54	-21.07	-	-	252	329	H
4	* 11.36	35.86	PK2	38.6	-22.2	52.26	-	-	74	-21.74	74	192	V
	* 11.359	22.94	MAv1	38.6	-22.3	39.24	54	-14.76	-	-	74	192	V
5	* 13.347	36.39	PK2	39.5	-24.1	51.79	-	-	74	-22.21	202	146	V
	* 13.356	23.88	MAv1	39.6	-24.3	39.18	54	-14.82	-	-	202	146	V
2	5.241	41.04	PK2	34.9	-29	46.94	-	-	-	-	272	351	H
6	15.044	35.3	PK2	41.3	-22.7	53.9	-	-	-	-	245	143	V
3	16.492	35.32	PK2	41.1	-21.2	55.22	-	-	-	-	146	189	H

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

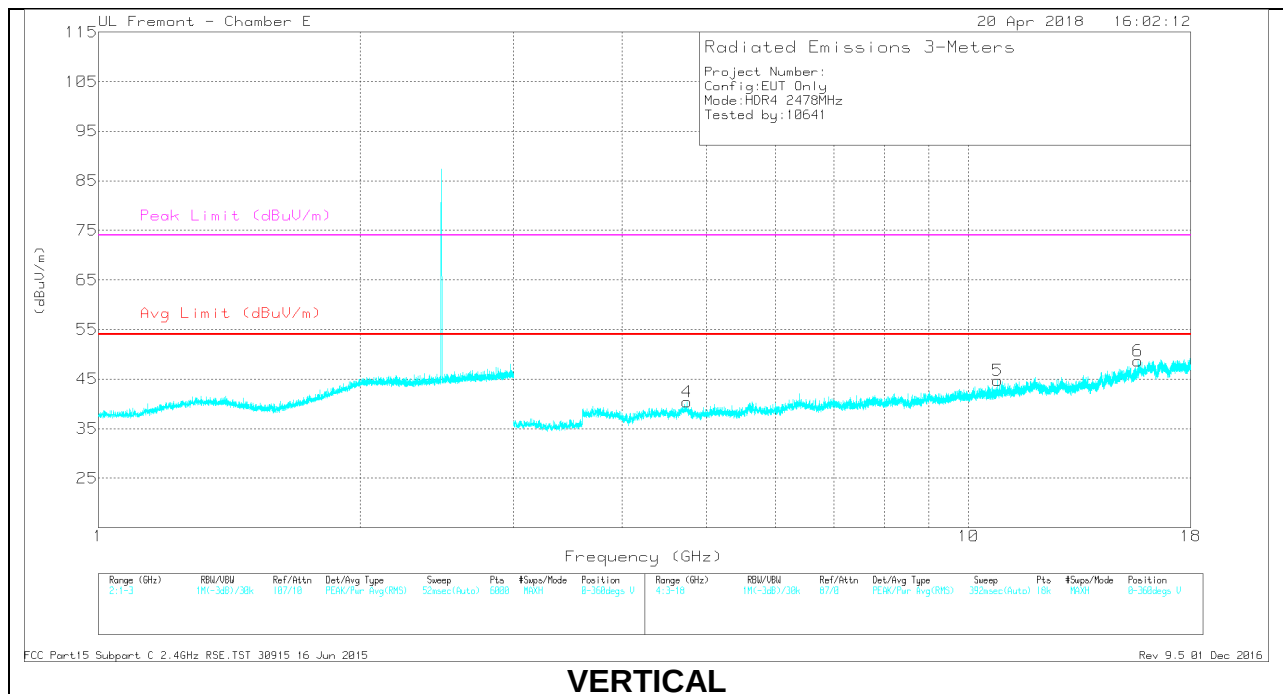
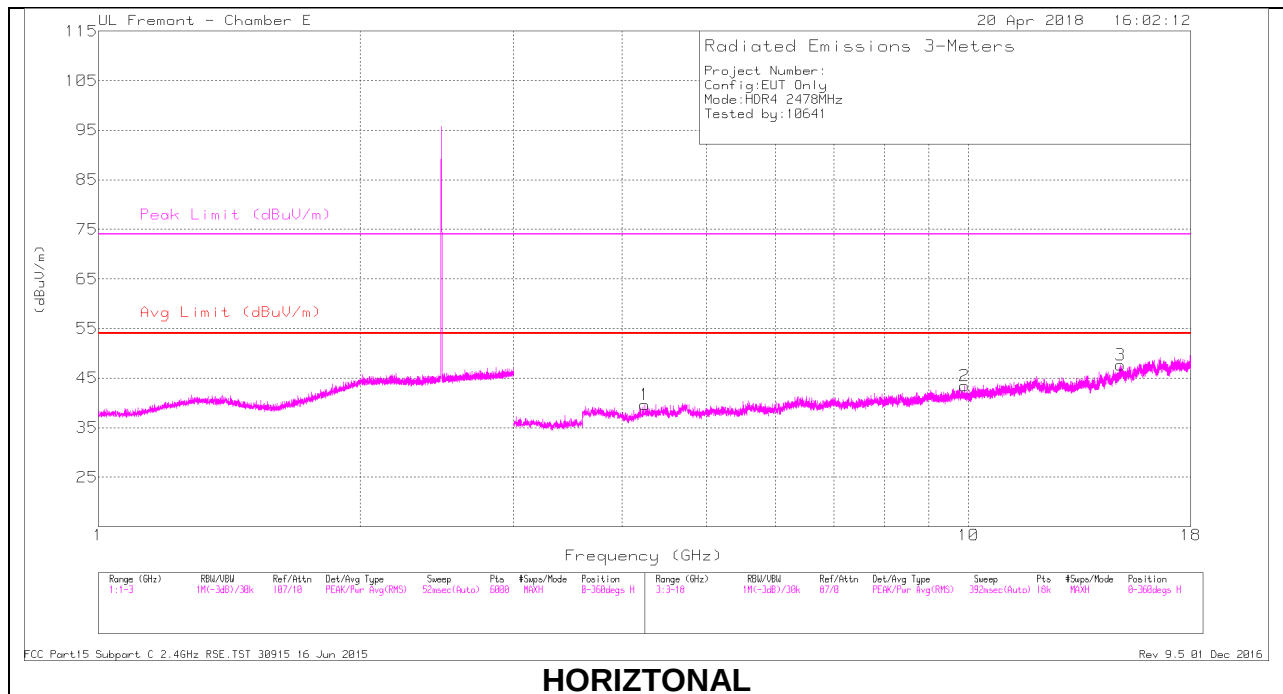
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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

Rev 9.5 01 Dec 2016

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 4.249	40.74	PK2	33.8	-28.5	46.04	-	-	74	-27.96	271	385	H
	* 4.242	28.3	MAv1	33.8	-28.6	33.5	54	-20.5	-	-	271	385	H
5	* 10.794	35.9	PK2	38.1	-23	51	-	-	74	-23	316	157	V
	* 10.791	22.49	MAv1	38.1	-23	37.59	54	-16.41	-	-	316	157	V
6	* 15.655	34.59	PK2	41.2	-21.5	54.29	-	-	74	-19.71	96	137	V
	* 15.655	21.7	MAv1	41.2	-21.5	41.4	54	-12.6	-	-	96	137	V
4	* 4.747	41.6	PK2	34.4	-28.6	47.4	-	-	74	-26.6	65	129	V
	* 4.745	30.01	MAv1	34.4	-28.6	35.81	54	-18.19	-	-	65	129	V
2	9.895	37.12	PK2	37.7	-24.1	50.72	-	-	-	-	318	104	H
3	14.927	35.86	PK2	40.9	-23	53.76	-	-	-	-	65	129	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

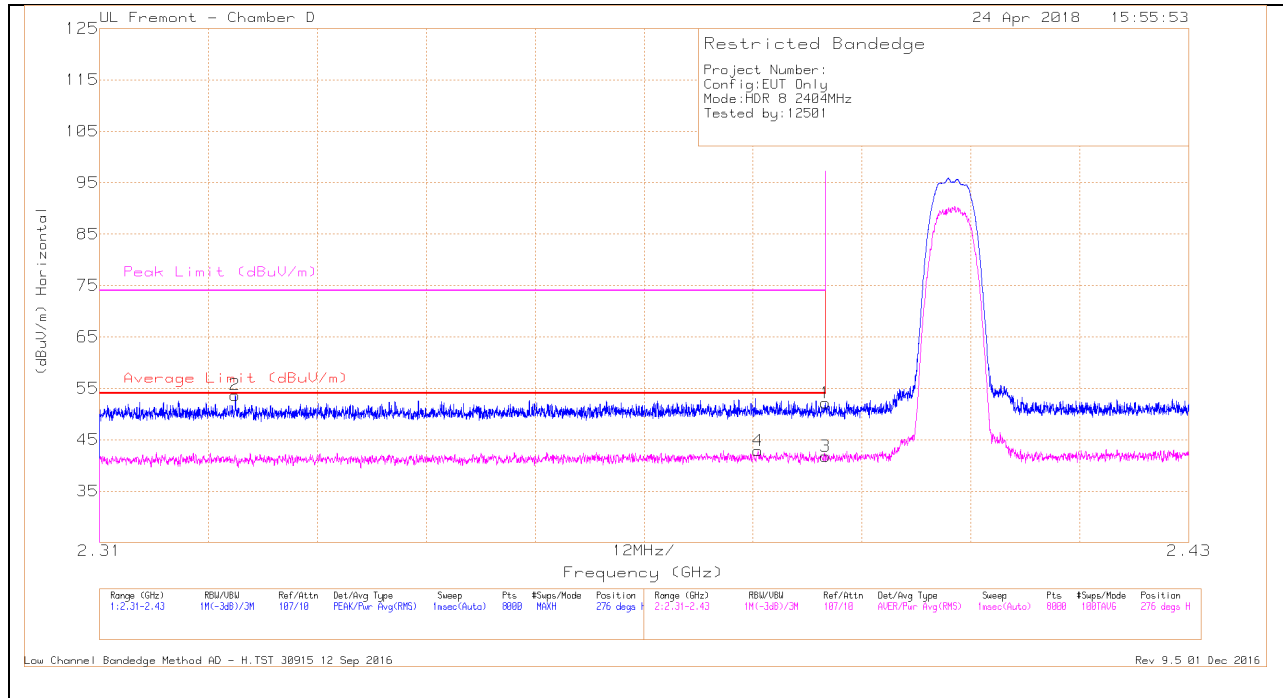
Rev 9.5 01 Dec 2016

9.2.4. LOW POWER HDR8

Antenna 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.73	Pk	31.9	-20.5	52.13	-	-	74	-21.87	276	107	H
2	* 2.325	42.78	Pk	31.5	-20.6	53.68	-	-	74	-20.32	276	107	H
3	* 2.39	30.38	RMS	31.9	-20.5	41.78	54	-12.22	-	-	276	107	H
4	* 2.383	31.55	RMS	31.8	-20.5	42.85	54	-11.15	-	-	276	107	H

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

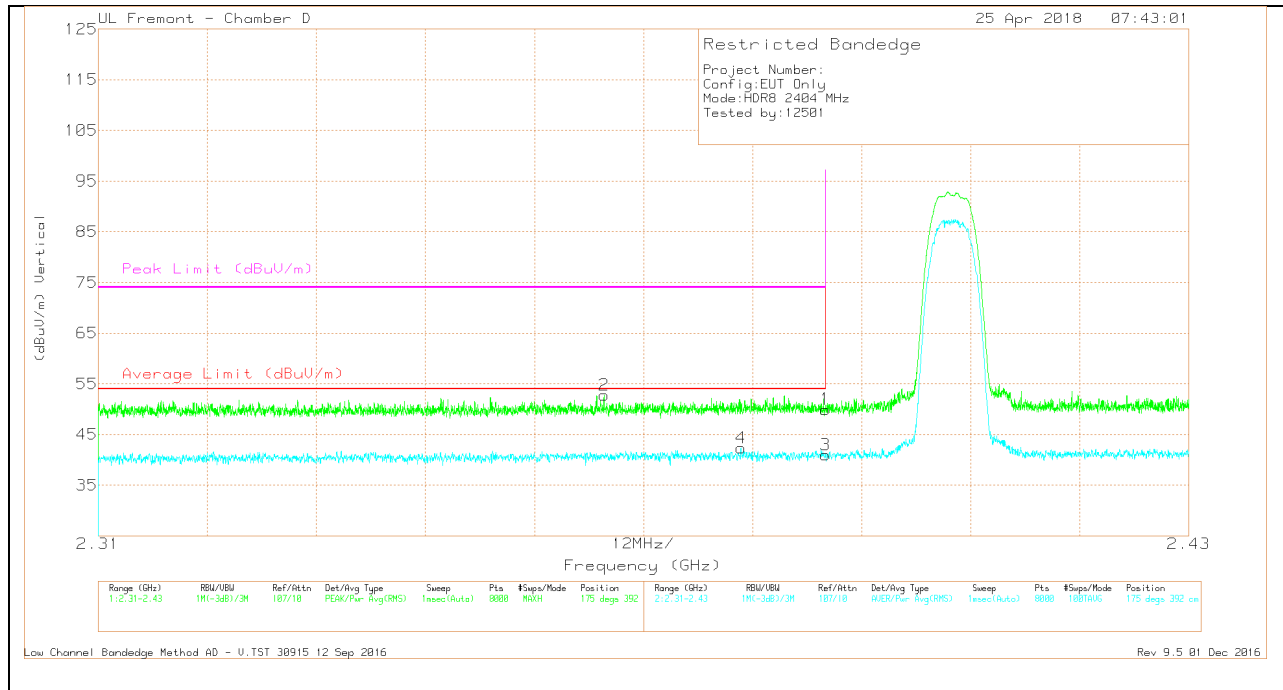
Pk - Peak detector

RMS - RMS detection

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

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr/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	* 2.39	38.58	Pk	31.9	-20.5	49.98	-	-	74	-24.02	175	392	V
2	* 2.366	41.55	Pk	31.7	-20.5	52.75	-	-	74	-21.25	175	392	V
3	* 2.39	29.62	RMS	31.9	-20.5	41.02	54	-12.98	-	-	175	392	V
4	* 2.381	30.93	RMS	31.8	-20.4	42.33	54	-11.67	-	-	175	392	V

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

Pk - Peak detector

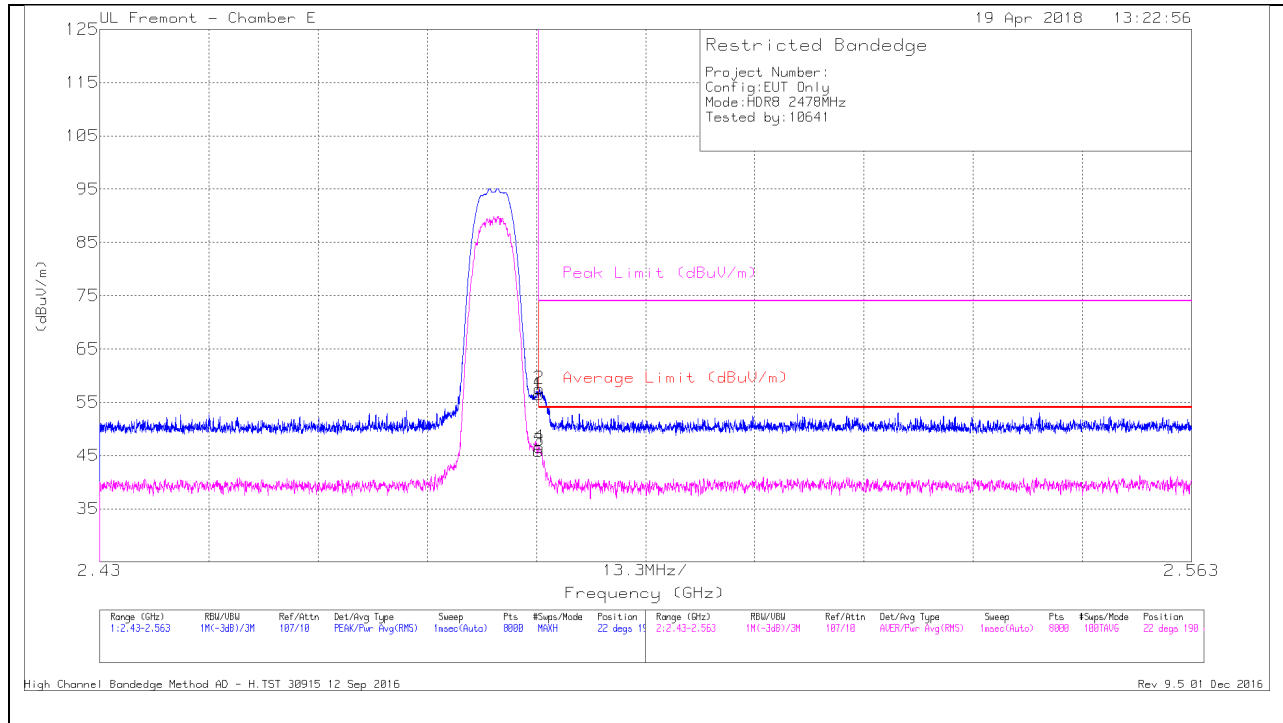
RMS - RMS detection

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

Rev 9.5 01 Dec 2016

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Ampl/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	46.62	Pk	32.1	-22.3	56.42	-	-	74	-17.58	22	190	H
2	* 2.484	47.78	PK	32.1	-22.3	57.58	-	-	74	-16.42	22	190	H
3	* 2.484	36.08	RMS	32.1	-22.3	45.88	54	-8.12	-	-	22	190	H
4	* 2.484	36.79	RMS	32.1	-22.3	46.59	54	-7.41	-	-	22	190	H

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

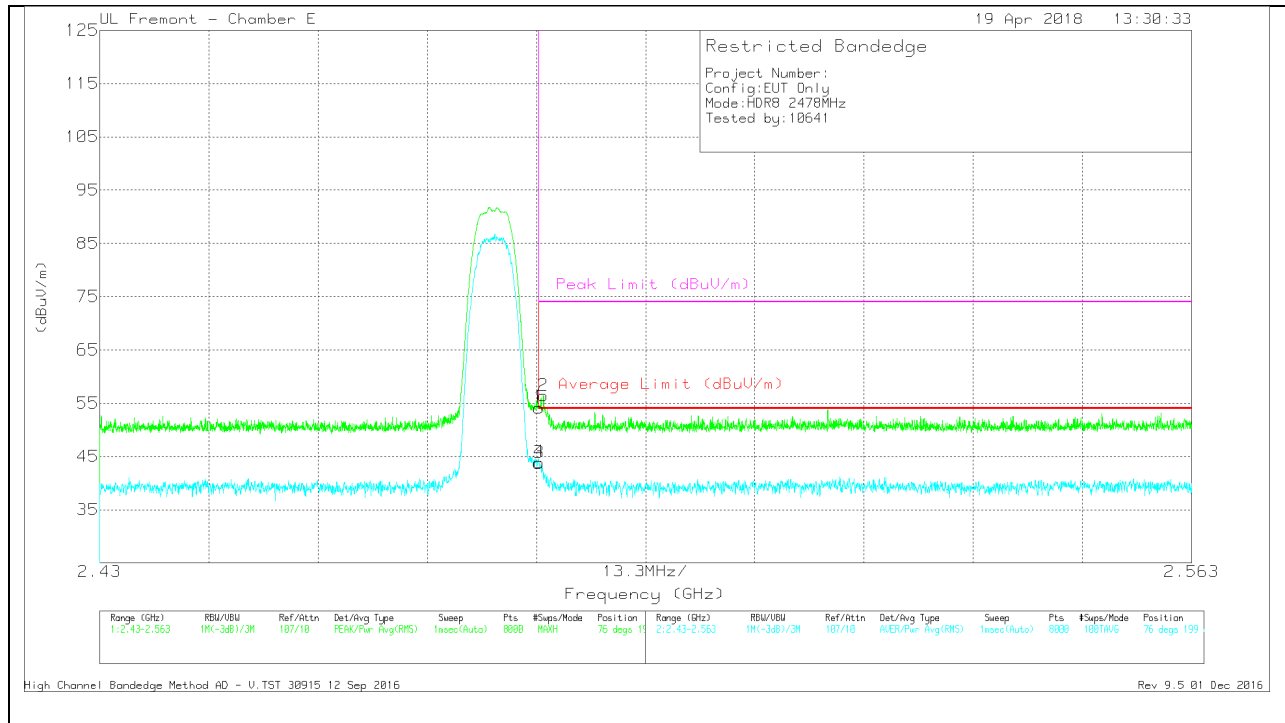
Pk - Peak detector

RMS - RMS detection

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

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dBm)	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	44.34	Pk	32.1	-22.3	54.14	-	-	74	-19.86	76	199	V
2	* 2.484	46.63	Pk	32.1	-22.3	56.43	-	-	74	-17.57	76	199	V
3	* 2.484	34.01	RMS	32.1	-22.3	43.81	54	-10.19	-	-	76	199	V
4	* 2.484	34.11	RMS	32.1	-22.3	43.91	54	-10.09	-	-	76	199	V

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

Pk - Peak detector

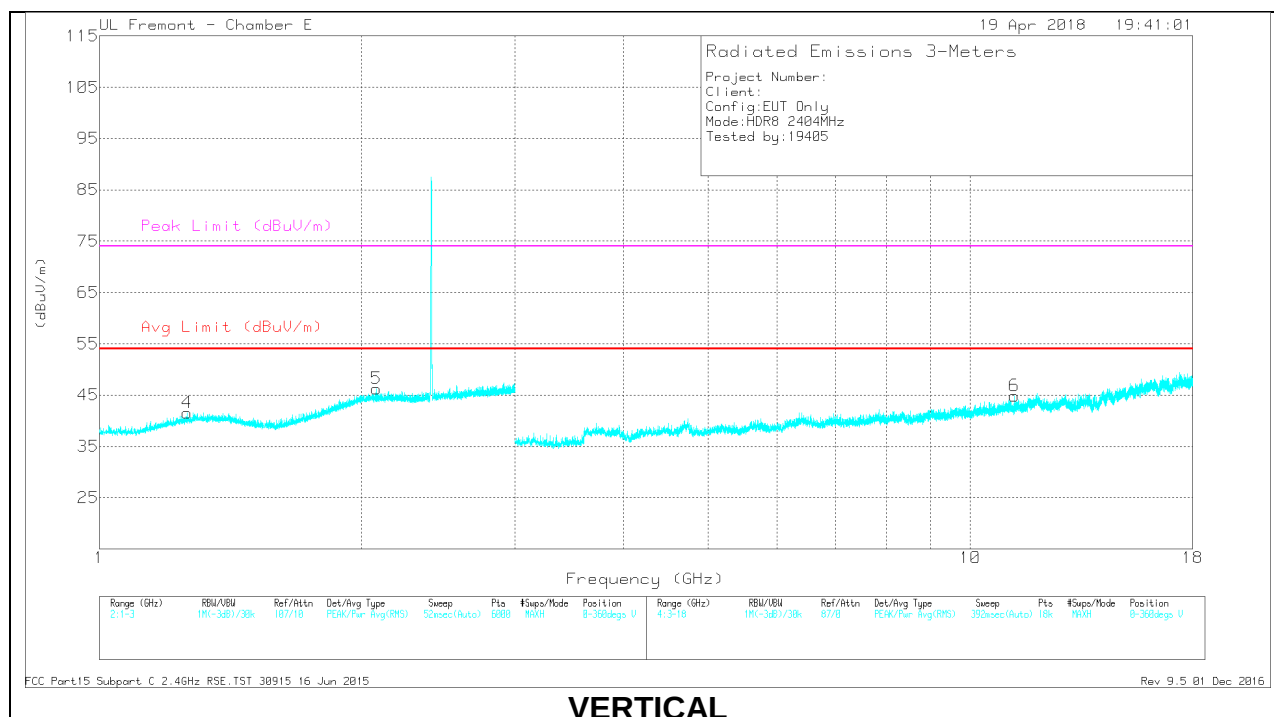
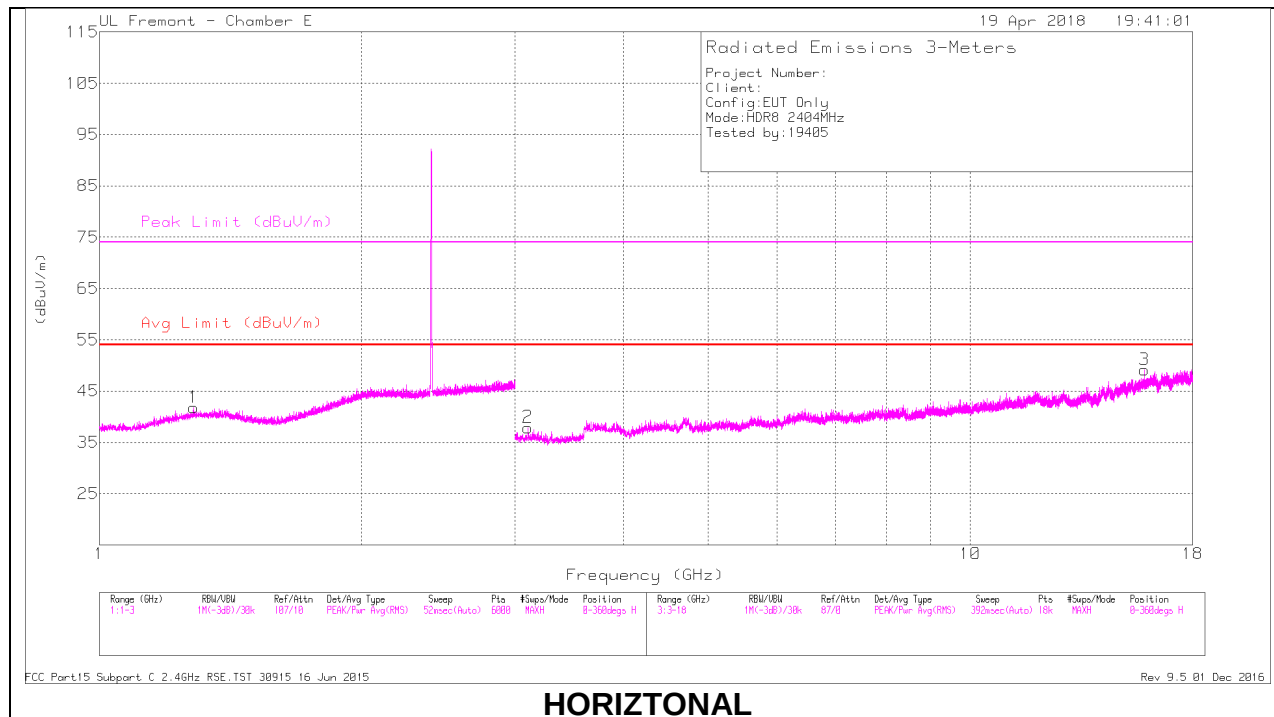
RMS - RMS detection

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

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HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 1.283	44.93	PK2	28.8	-25.3	48.43	-	-	74	-25.57	266	275	H
	* 1.285	32.85	MAv1	28.8	-25.3	36.35	54	-17.65	-	-	266	275	H
4	* 1.26	45.19	PK2	28.5	-25.3	48.39	-	-	74	-25.61	284	216	V
	* 1.261	32.78	MAv1	28.5	-25.3	35.98	54	-18.02	-	-	284	216	V
3	* 15.851	35.33	PK2	41.6	-21.9	55.03	-	-	74	-18.97	300	221	H
	* 15.851	22.44	MAv1	41.6	-21.9	42.14	54	-11.86	-	-	300	221	H
6	* 11.237	35.2	PK2	38.6	-23.3	50.5	-	-	74	-23.5	183	249	V
	* 11.238	23.04	MAv1	38.6	-23.3	38.34	54	-15.66	-	-	183	249	V
5	2.08	43.68	PK2	32.1	-23.3	52.48	-	-	-	-	360	178	V
2	3.103	41.08	PK2	33.1	-30	44.18	-	-	-	-	251	245	H

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

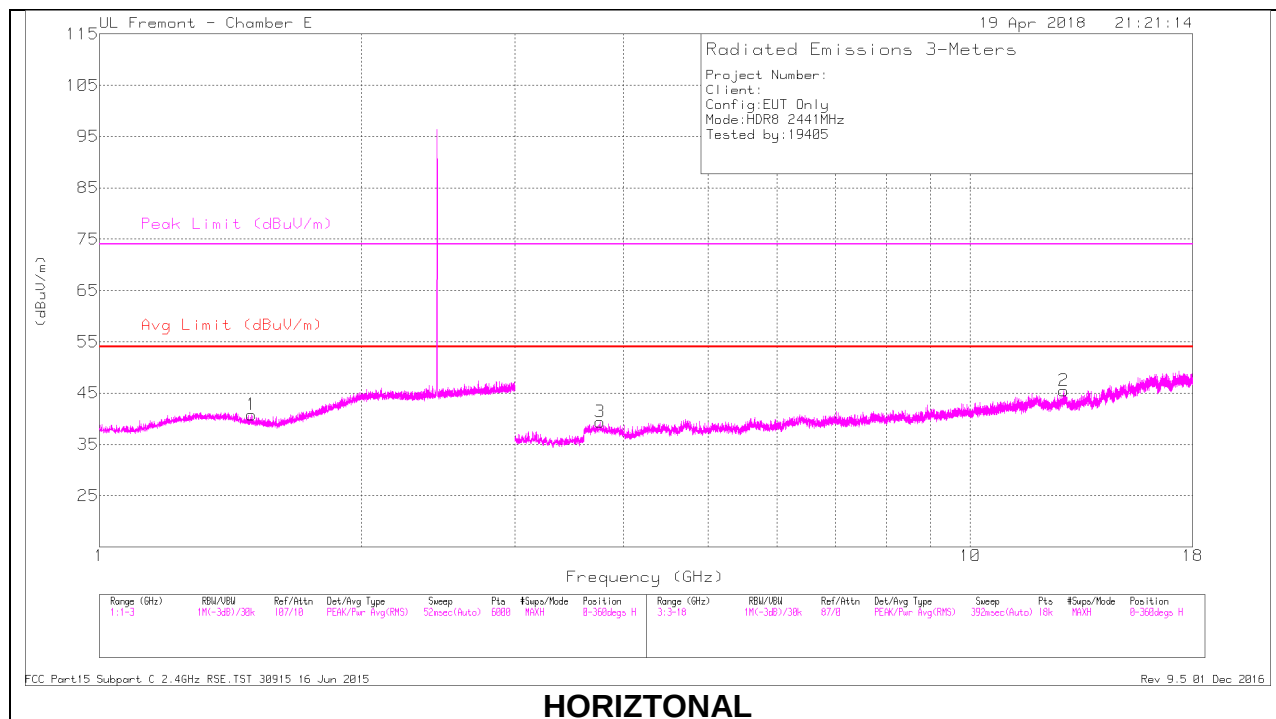
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

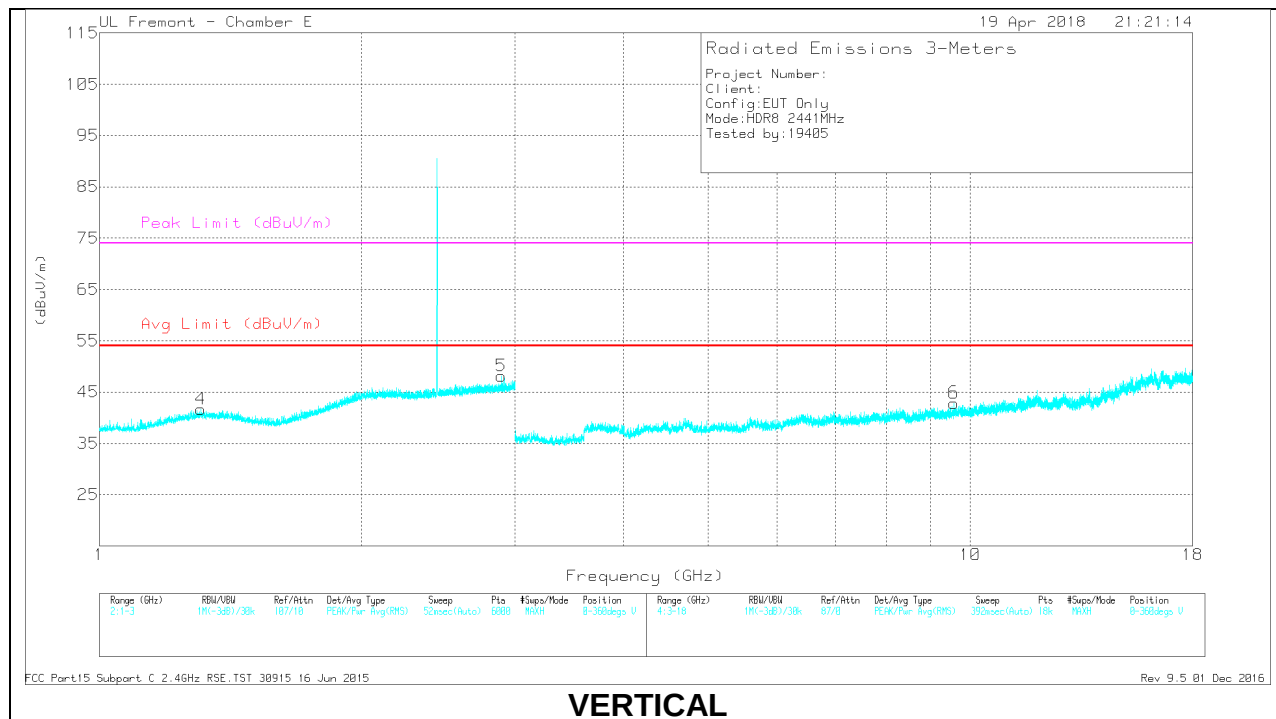
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MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Markers	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.497	44.57	PK2	27.6	-24.8	47.37	-	-	74	-26.63	251	138	H
	* 1.496	32.57	MAv1	27.7	-24.8	35.47	54	-18.53	-	-	251	138	H
4	* 1.306	44.82	PK2	28.9	-25.2	48.52	-	-	74	-25.48	294	173	V
	* 1.305	32.75	MAv1	28.9	-25.2	36.45	54	-17.55	-	-	294	173	V
5	* 2.892	42.85	PK2	32.8	-21.8	53.85	-	-	74	-20.15	149	127	V
	* 2.892	29.94	MAv1	32.8	-21.8	40.94	54	-13.06	-	-	149	127	V
3	* 3.758	40.58	PK2	33.6	-29.6	44.58	-	-	74	-29.42	176	139	H
	* 3.756	29.35	MAv1	33.6	-29.6	33.35	54	-20.65	-	-	176	139	H
6	9.58	35.98	PK2	37.3	-23.6	49.68	-	-	-	-	162	183	V
2	12.796	36.55	PK2	39.9	-23.7	52.75	-	-	-	-	255	148	H

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

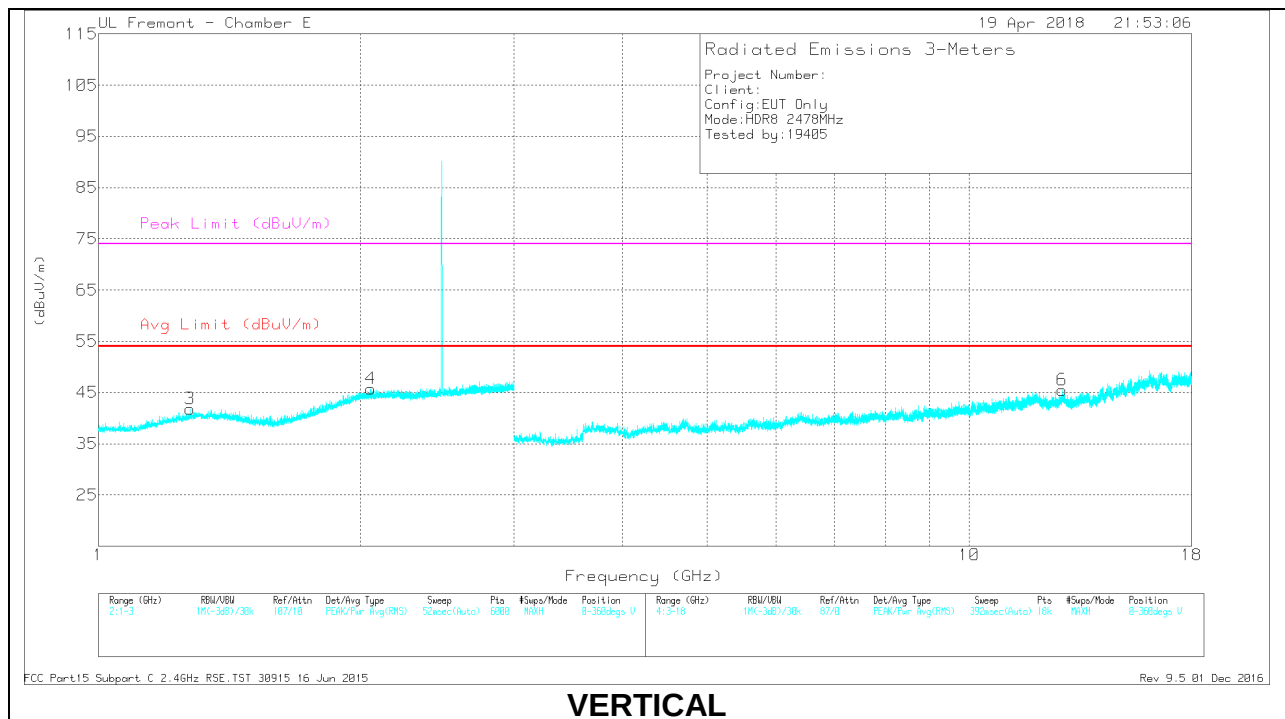
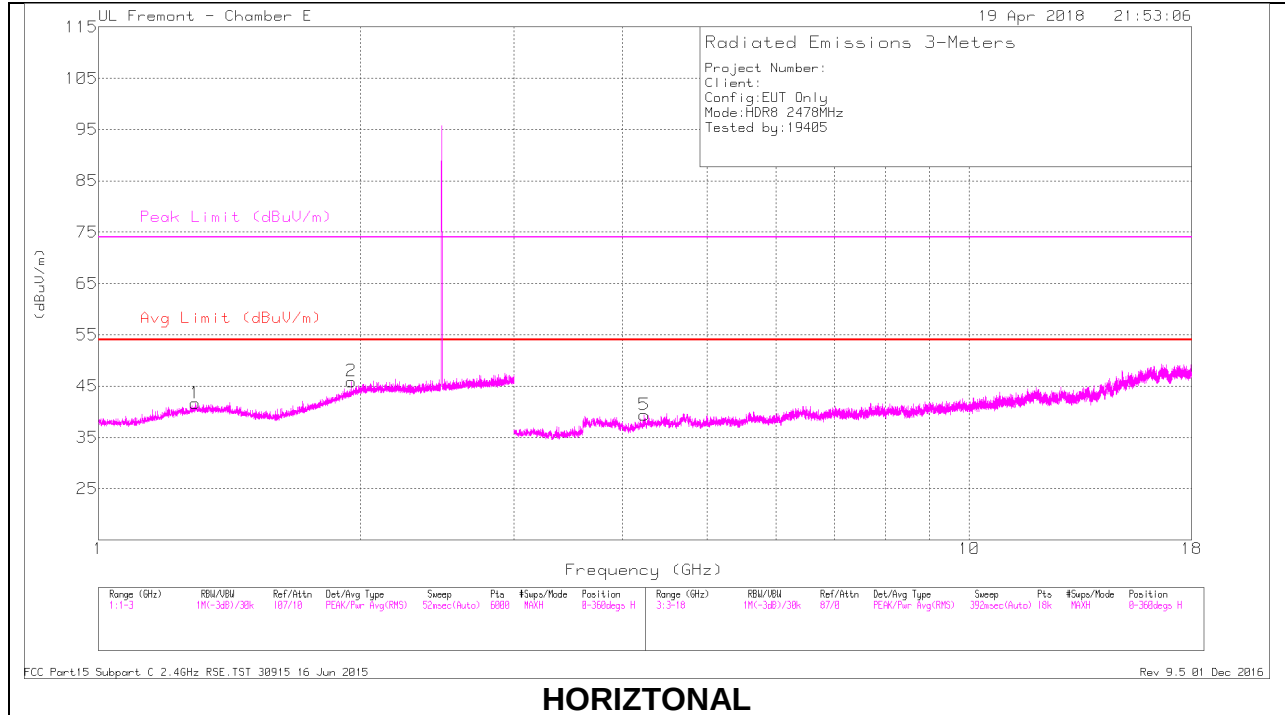
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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

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HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Markers	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.294	44.86	PK2	28.9	-25.3	48.46	-	-	74	-25.54	244	176	H
	* 1.29	32.86	MAv1	28.8	-25.3	36.36	54	-17.64	-	-	244	176	H
3	* 1.273	44.7	PK2	28.7	-25.3	48.1	-	-	74	-25.9	221	179	V
	* 1.273	32.83	MAv1	28.7	-25.3	36.23	54	-17.77	-	-	221	179	V
5	* 4.233	40.72	PK2	33.8	-28.6	45.92	-	-	74	-28.08	206	117	H
	* 4.236	28.8	MAv1	33.8	-28.6	34	54	-20	-	-	206	117	H
2	1.952	44.2	PK2	31.5	-23.6	52.1	-	-	-	-	298	142	H
4	2.053	43.97	PK2	32.1	-23.2	52.87	-	-	-	-	214	159	V
6	12.779	35.65	PK2	39.8	-23.6	51.85	-	-	-	-	164	193	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

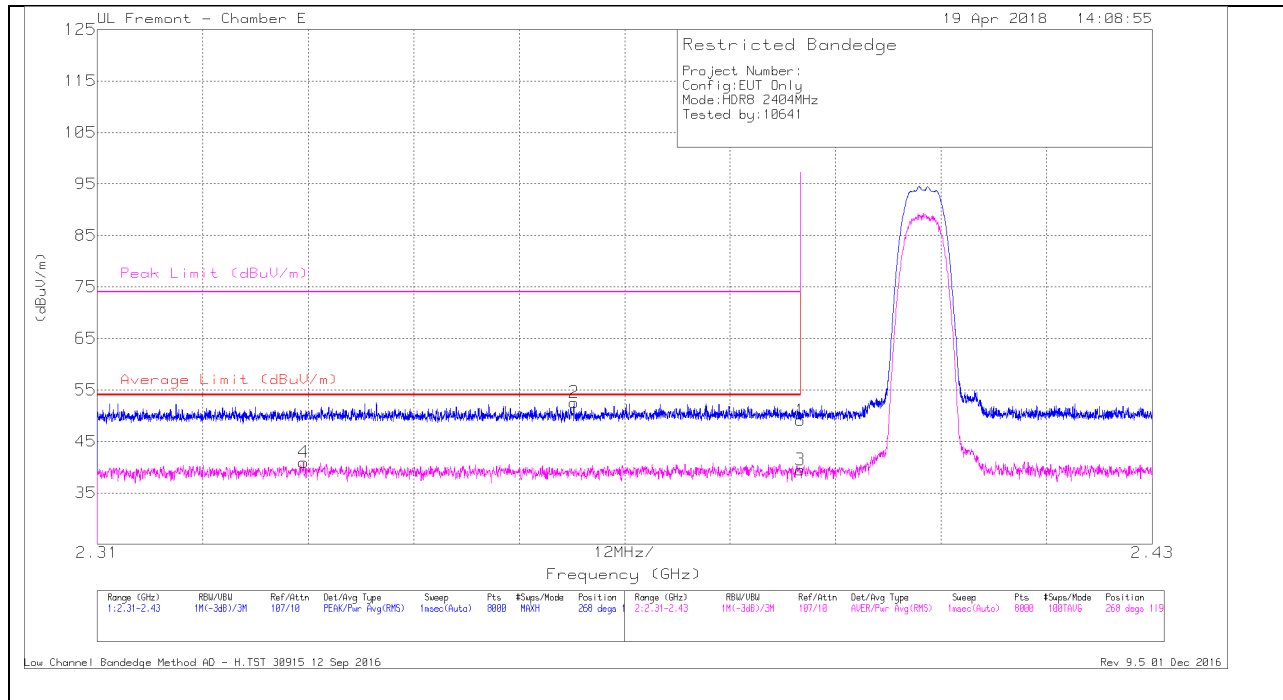
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Antenna 3

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dBm)	Amp/Cbl/FiltriPa 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	* 2.39	39.7	Pk	32	-22.6	49.1	-	-	74	-24.9	268	119	H
2	* 2.364	43.35	Pk	31.9	-22.7	52.55	-	-	74	-21.45	268	119	H
3	* 2.39	30.1	RMS	32	-22.6	39.5	54	-14.5	-	-	268	119	H
4	* 2.333	31.84	RMS	31.8	-22.7	40.94	54	-13.06	-	-	268	119	H

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

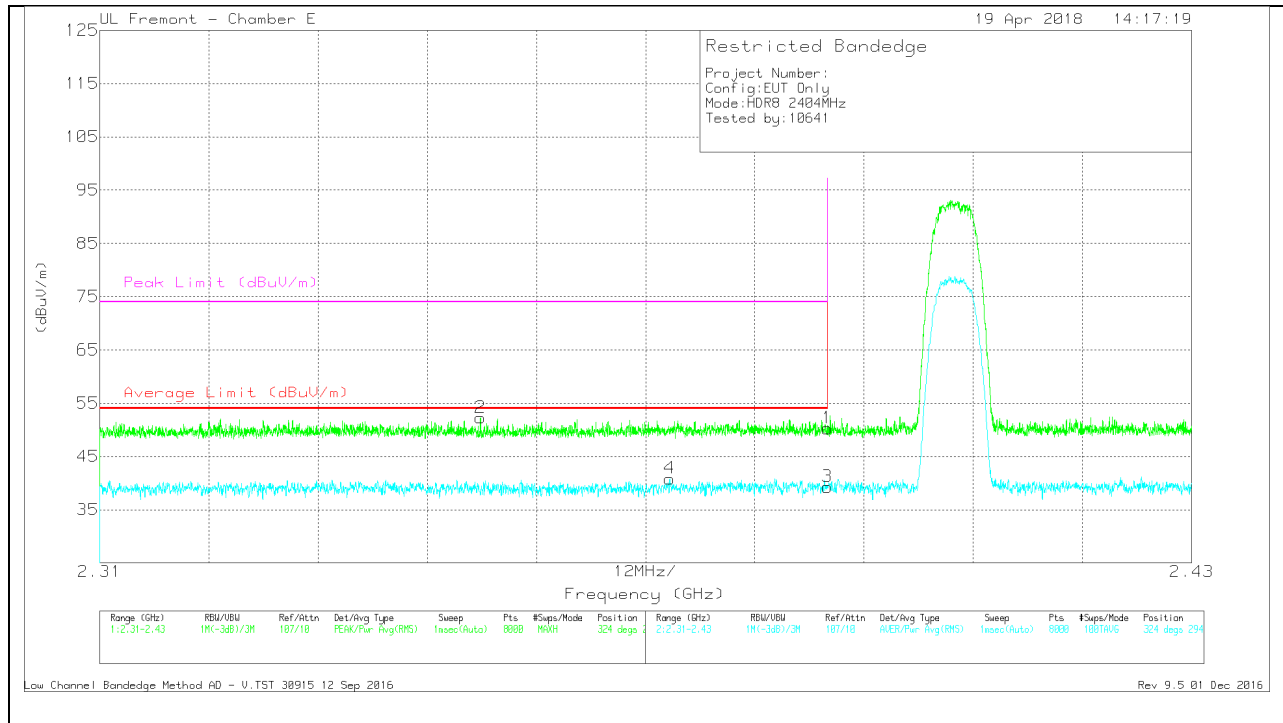
Pk - Peak detector

RMS - RMS detection

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

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dBm)	Ampl/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	* 2.352	43.17	Pk	31.8	-22.7	52.27	-	-	74	-21.73	324	294	V
4	* 2.373	31.66	RMS	31.9	-22.7	40.86	54	-13.14	-	-	324	294	V
1	* 2.39	40.88	Pk	32	-22.6	50.28	-	-	74	-23.72	324	294	V
3	* 2.39	29.88	RMS	32	-22.6	39.28	54	-14.72	-	-	324	294	V

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

Pk - Peak detector

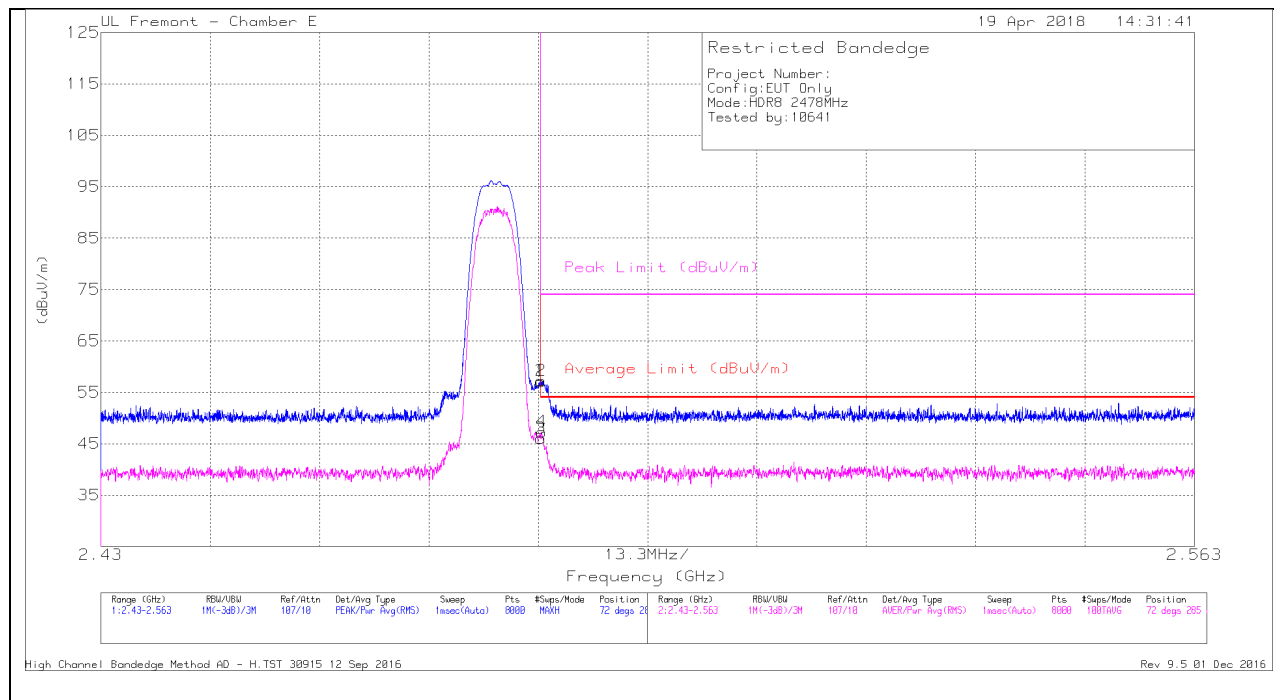
RMS - RMS detection

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

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BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/CbI/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	47.3	Pk	32.1	-22.3	57.1	-	-	74	-16.9	72	285	H
2	* 2.484	47.47	Pk	32.1	-22.3	57.27	-	-	74	-16.73	72	285	H
3	* 2.484	36.25	RMS	32.1	-22.3	46.05	54	-7.95	-	-	72	285	H
4	* 2.484	37.51	RMS	32.1	-22.3	47.31	54	-6.69	-	-	72	285	H

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

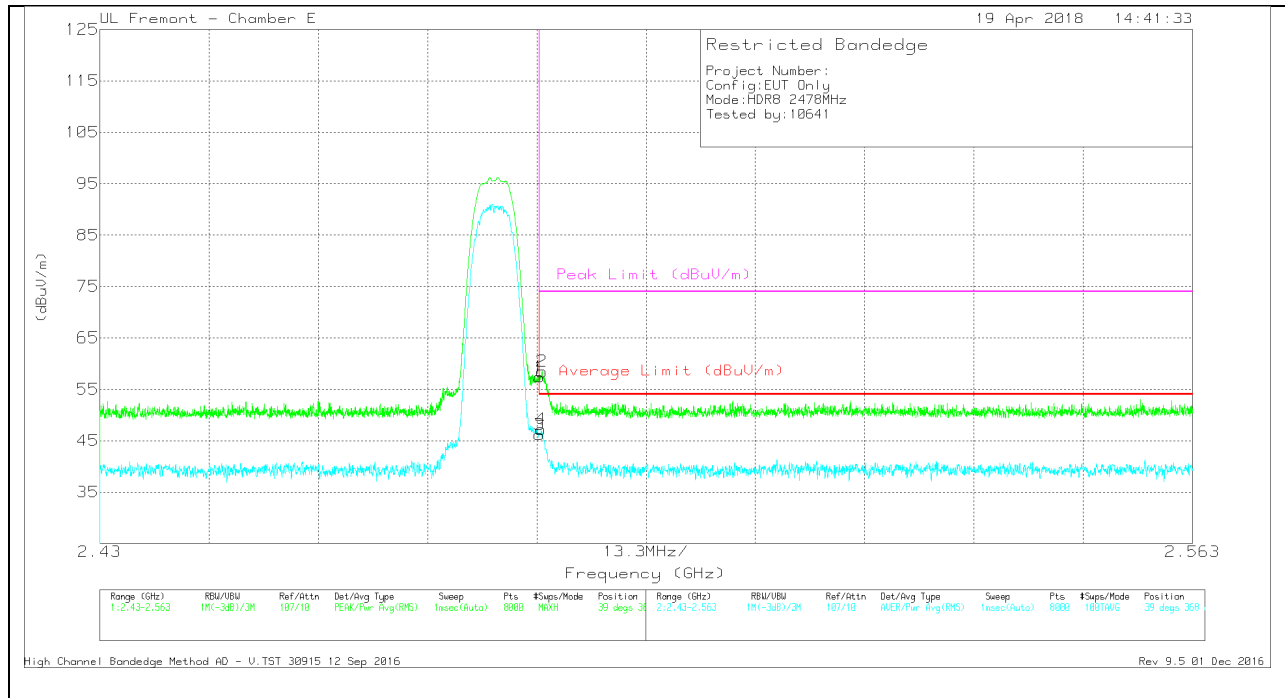
Pk - Peak detector

RMS - RMS detection

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

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	47.6	Pk	32.1	-22.3	57.4	-	-	74	-16.6	39	368	V
2	* 2.484	48.67	Pk	32.1	-22.3	58.47	-	-	74	-15.53	39	368	V
3	* 2.484	36.34	RMS	32.1	-22.3	46.14	54	-7.86	-	-	39	368	V
4	* 2.484	37.43	RMS	32.1	-22.3	47.23	54	-6.77	-	-	39	368	V

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

Pk - Peak detector

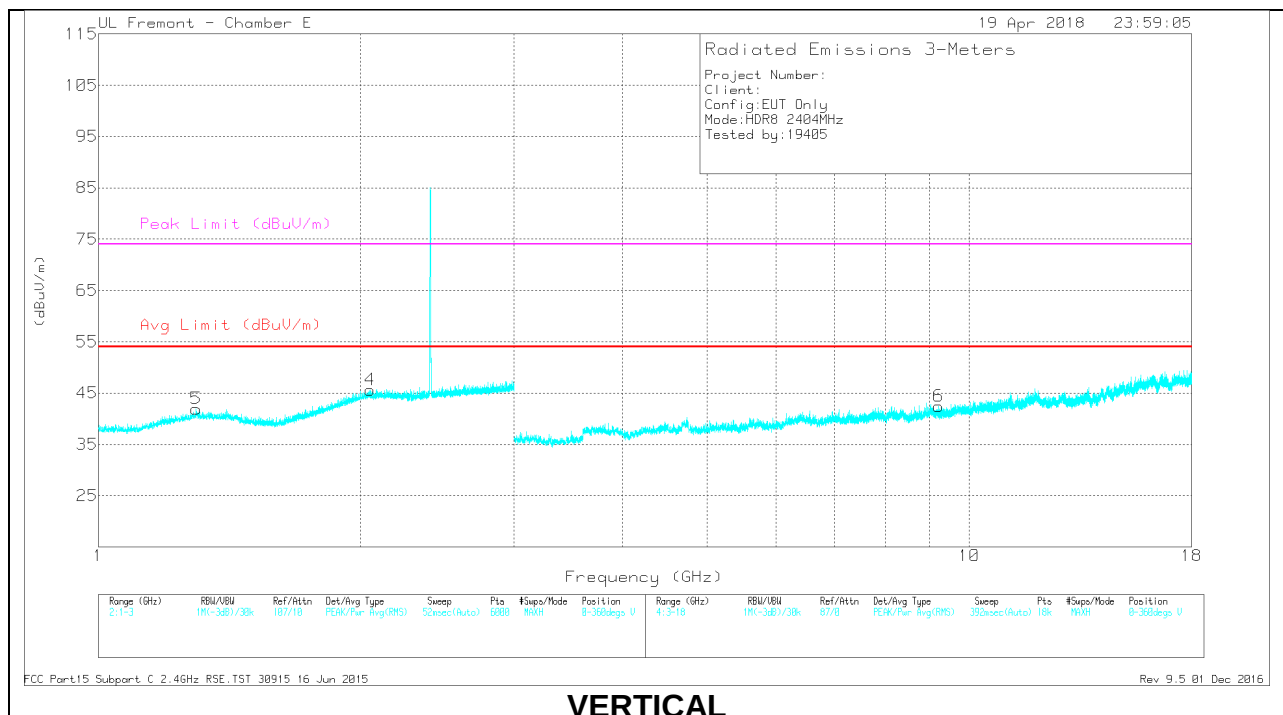
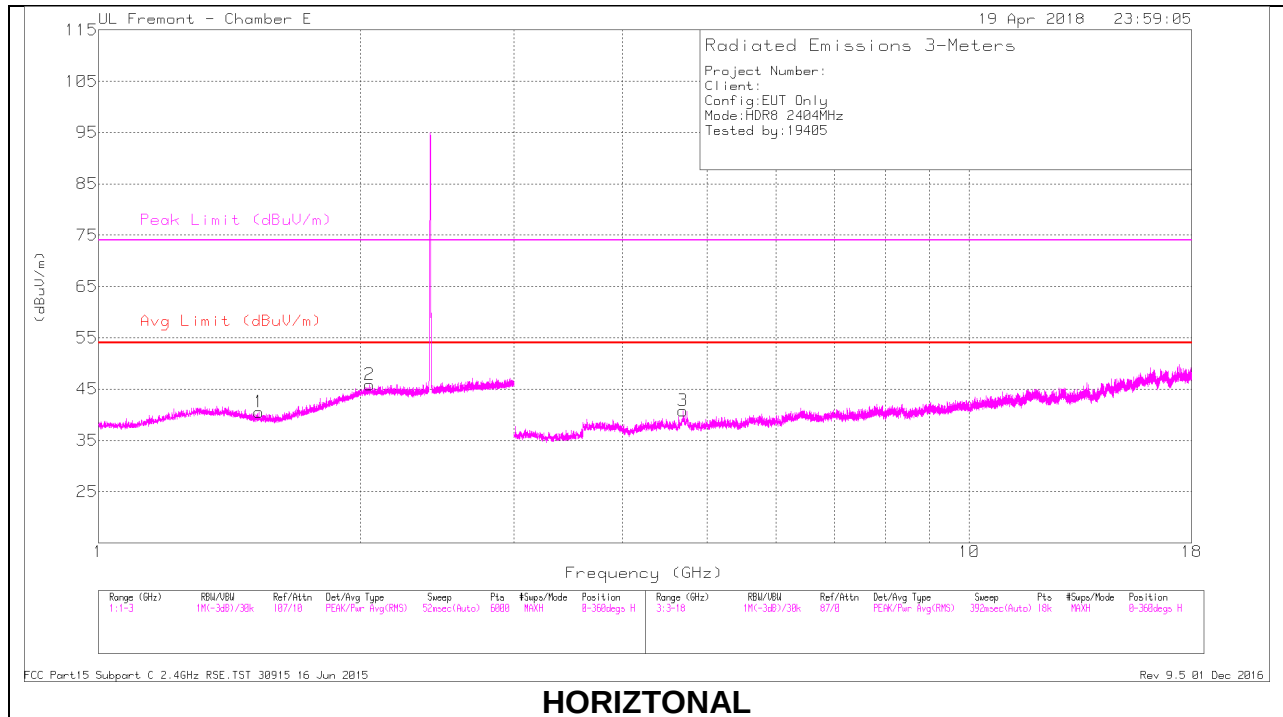
RMS - RMS detection

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

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HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 1.53	44.36	PK2	27.5	-24.7	47.16	-	-	74	-26.84	341	131	H
	* 1.528	32.43	MAv1	27.5	-24.7	35.23	54	-18.77	-	-	341	131	H
5	* 1.294	45.26	PK2	28.9	-25.3	48.86	-	-	74	-25.14	277	217	V
	* 1.295	32.83	MAv1	28.9	-25.3	36.43	54	-17.57	-	-	277	217	V
3	* 4.688	42.1	PK2	34.4	-29.1	47.4	-	-	74	-26.6	269	234	H
	* 4.689	30.45	MAv1	34.4	-29.1	35.75	54	-18.25	-	-	269	234	H
2	2.048	44.42	PK2	32.1	-23.3	53.22	-	-	-	-	322	159	H
4	2.054	43.9	PK2	32.1	-23.3	52.7	-	-	-	-	283	186	V
6	9.223	36.43	PK2	37.1	-24	49.53	-	-	-	-	180	315	V

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

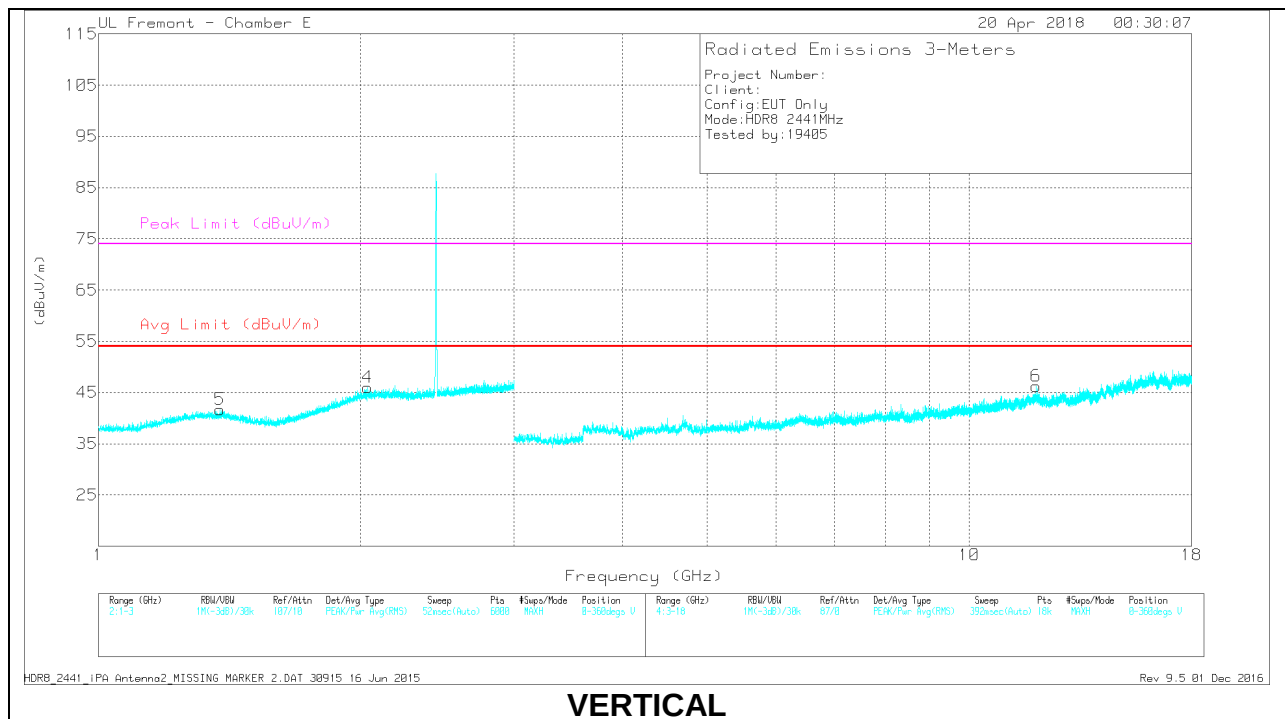
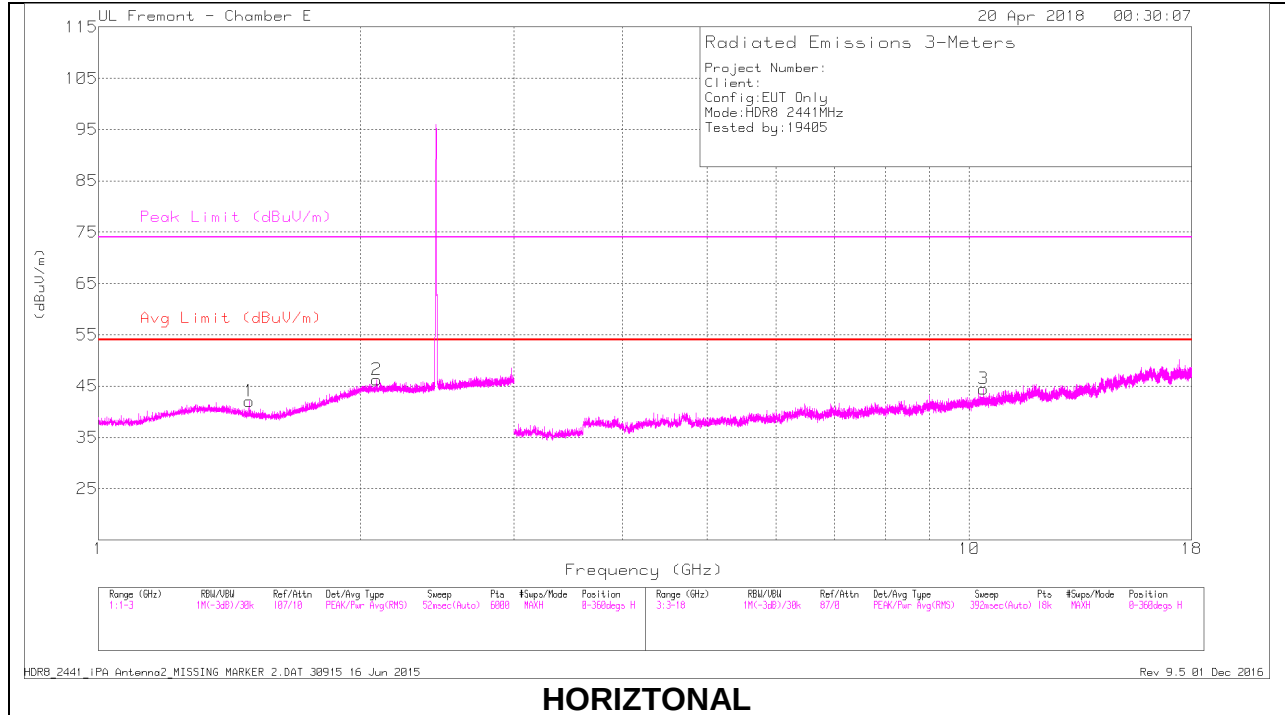
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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MID CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.488	44.52	PK2	27.8	-24.8	47.52	-	-	74	-26.48	184	231	H
	* 1.487	32.33	MAv1	27.8	-24.8	35.33	54	-18.67	-	-	184	231	H
5	* 1.376	44.99	PK2	28.8	-25.1	48.69	-	-	74	-25.31	208	176	V
	* 1.378	32.68	MAv1	28.8	-25.1	36.38	54	-17.62	-	-	208	176	V
6	* 11.94	35.15	PK2	39.5	-22.2	52.45	-	-	74	-21.55	190	164	V
	* 11.94	22.33	MAv1	39.5	-22.2	39.63	54	-14.37	-	-	190	164	V
4	2.036	43.56	PK2	32.1	-23.2	52.46	-	-	-	-	200	367	V
2	2.088	43.46	PK2	32.1	-23.3	52.26	-	-	-	-	139	318	H
3	10.383	35.04	PK2	37.7	-22.7	50.04	-	-	-	-	283	220	H

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

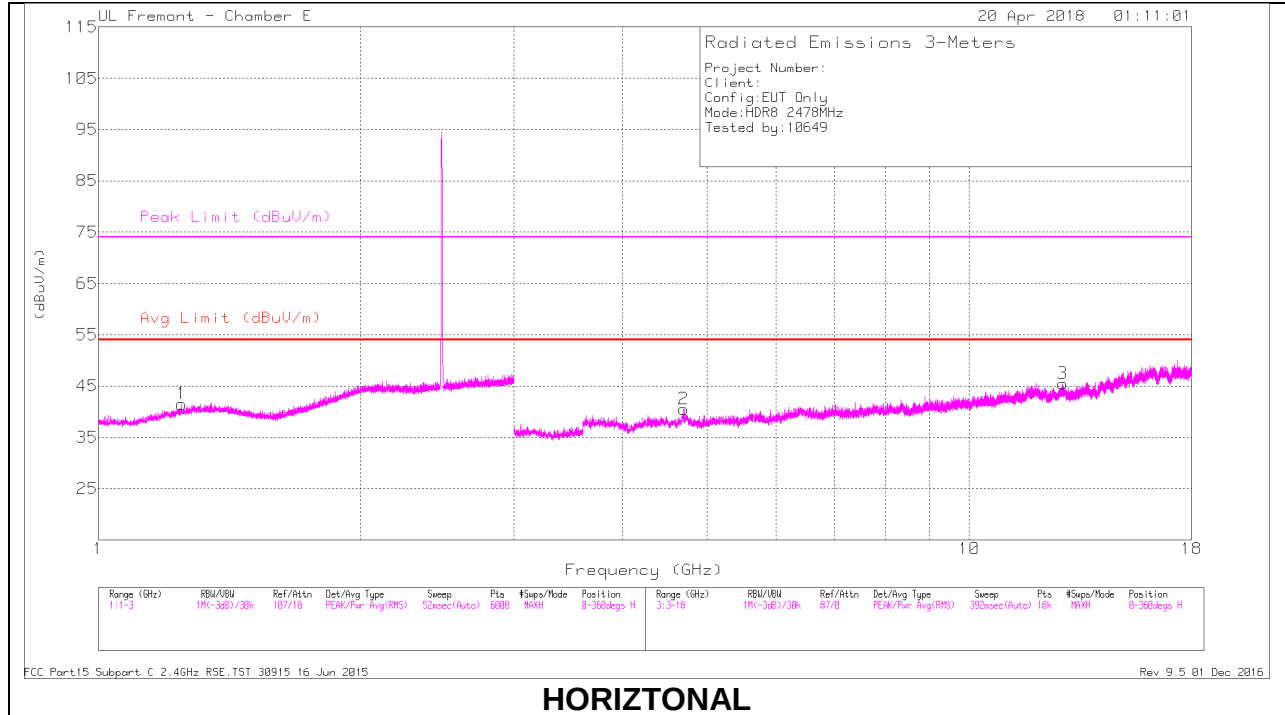
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

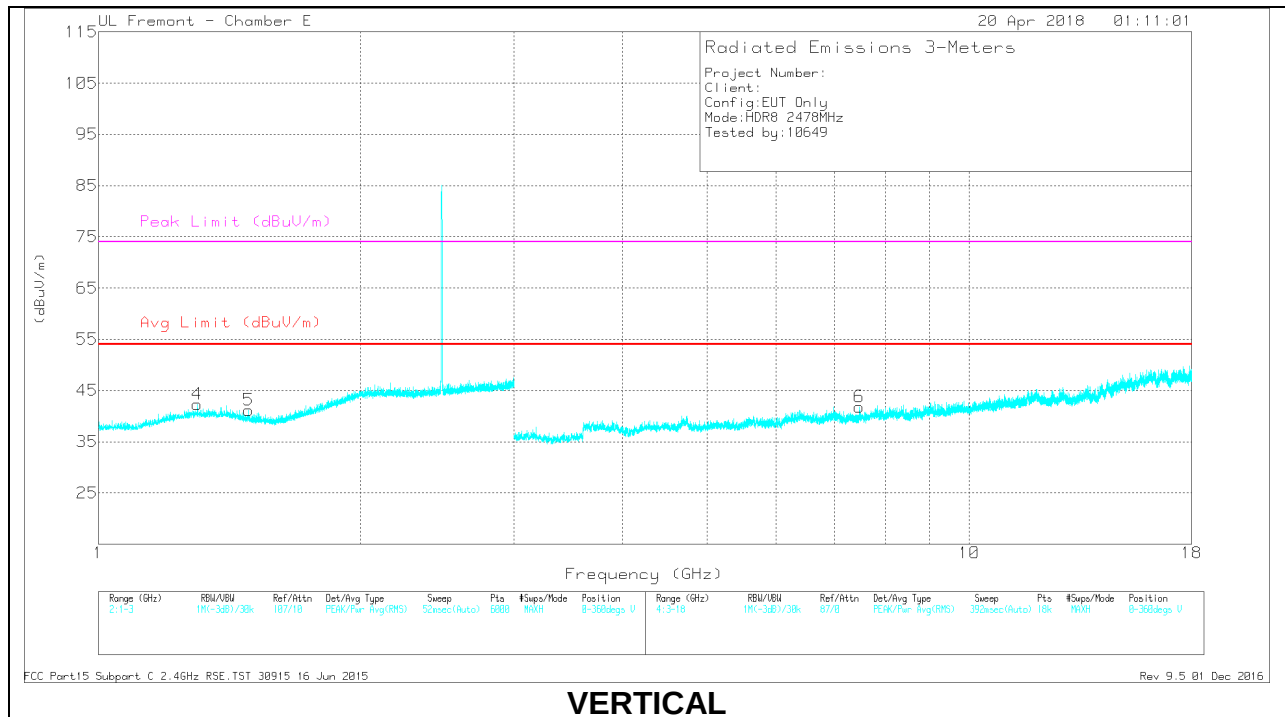
HDR8_2441_iPA Antenna2_MISSING MARKER 2.DAT 30915 16 Jun 2015

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HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 1.247	44.87	PK2	28.4	-25.4	47.87	-	-	74	-26.13	177	164	H
	* 1.246	33.03	MAv1	28.4	-25.4	36.03	54	-17.97	-	-	177	164	H
4	* 1.3	45.09	PK2	28.9	-25.3	48.69	-	-	74	-25.31	157	149	V
	* 1.3	32.97	MAv1	28.9	-25.3	36.57	54	-17.43	-	-	157	149	V
5	* 1.489	45.01	PK2	27.7	-24.8	47.91	-	-	74	-26.09	104	199	V
	* 1.487	32.49	MAv1	27.8	-24.8	35.49	54	-18.51	-	-	104	199	V
2	* 4.704	41	PK2	34.4	-28.7	46.7	-	-	74	-27.3	71	157	H
	* 4.701	29.88	MAv1	34.4	-28.9	35.38	54	-18.62	-	-	71	157	H
6	* 7.48	37.92	PK2	36.1	-26	48.02	-	-	74	-25.98	203	217	V
	* 7.481	26.24	MAv1	36.1	-25.9	36.44	54	-17.56	-	-	203	217	V
3	12.798	36.16	PK2	39.9	-23.7	52.36	-	-	-	-	144	135	H

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

PK2 - KDB558074 Method: Maximum Peak

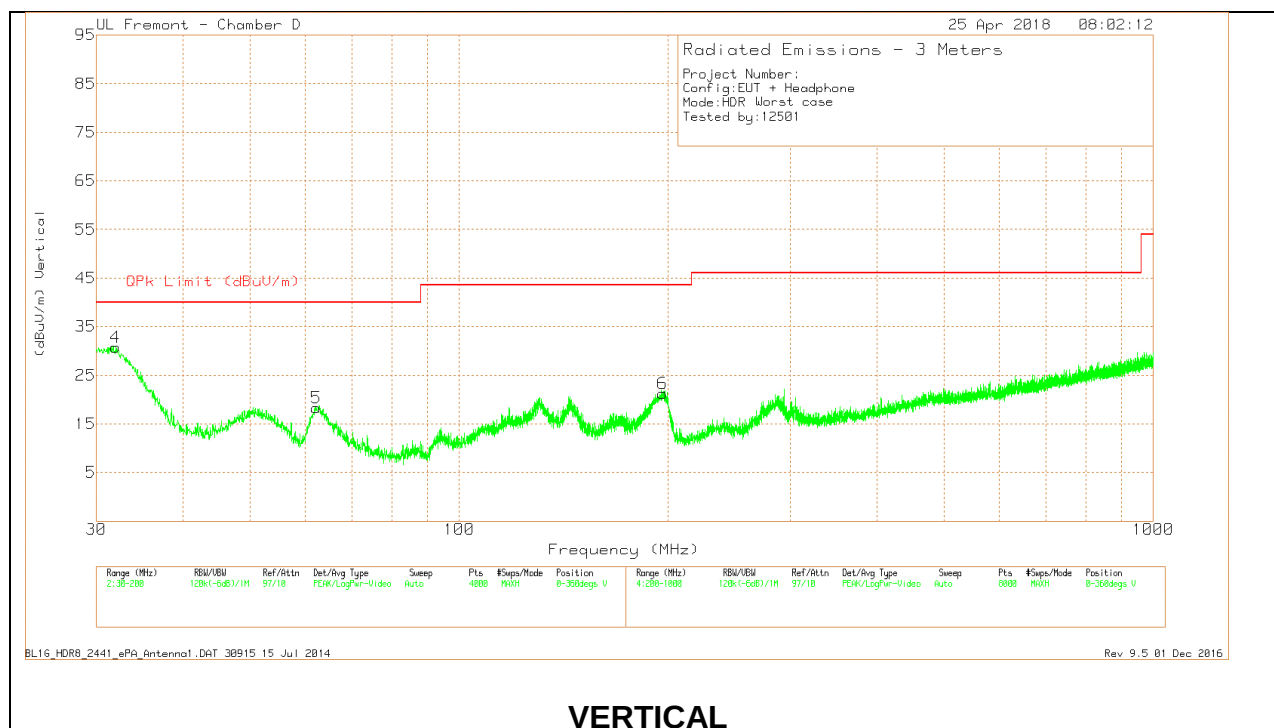
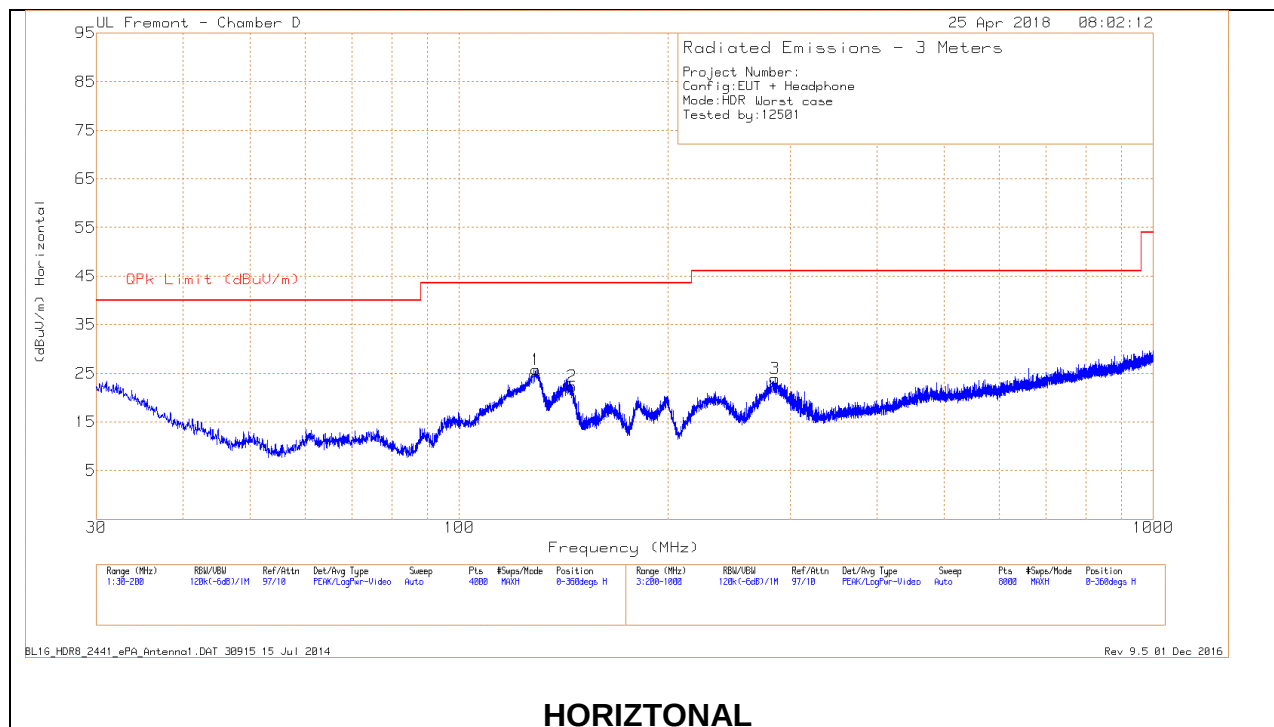
MAv1 - KDB558074 Option 1 Maximum RMS Average

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

Rev 9.5 01 Dec 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 T477 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 129.0081	38.64	Pk	18.2	-31.1	25.74	43.52	-17.78	0-360	199	H
4	31.9555	37.78	Pk	24.9	-31.9	30.78	40	-9.22	0-360	100	V
5	62.1808	37.52	Pk	12.4	-31.6	18.32	40	-21.68	0-360	100	V
2	145.3961	36.42	Pk	17	-31.1	22.32	43.52	-21.2	0-360	199	H
6	196.303	35.47	Pk	16.6	-30.8	21.27	43.52	-22.25	0-360	100	V
3	285.0111	36.56	Pk	17.8	-30.4	23.96	46.02	-22.06	0-360	99	H

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

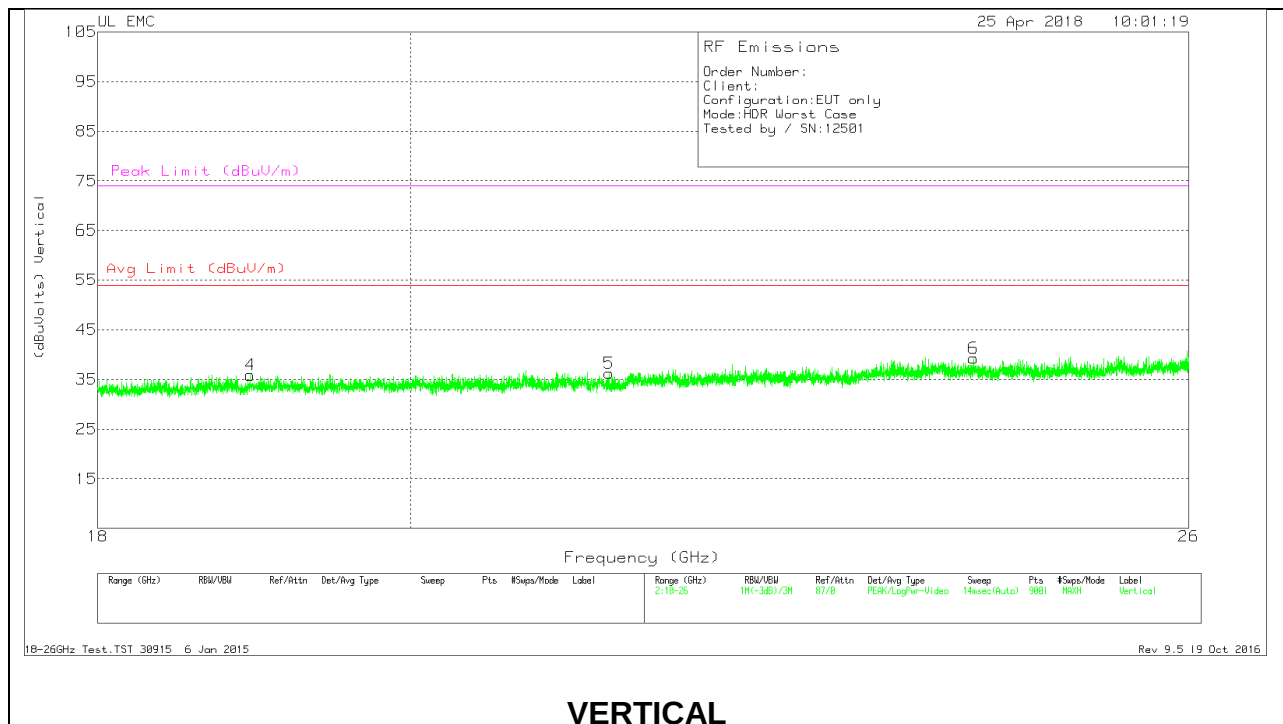
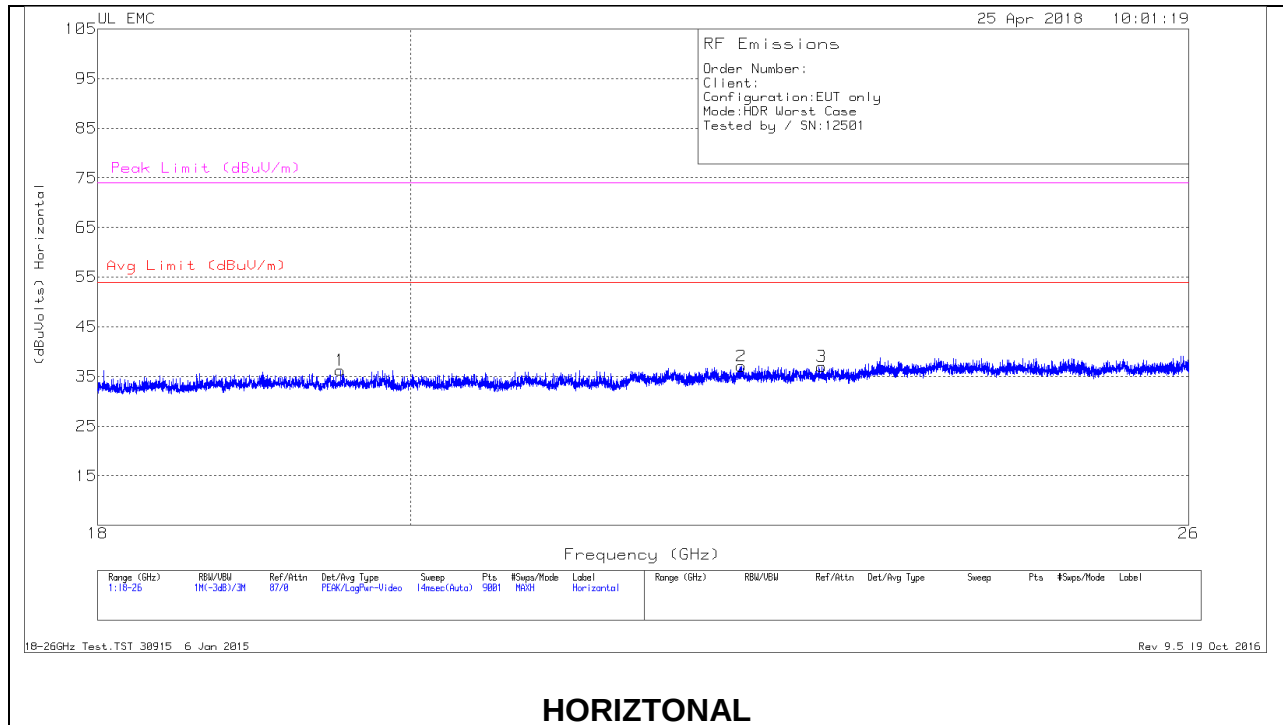
Pk - Peak detector

BL1G_HDR8_2441_ePA_Antenna1.DAT 30915 15 Jul 2014

Rev 9.5 01 Dec 2016

9.4. Worst Case 18-26 GHz

SPURIOUS EMISSIONS 18-26 GHz (WORST-CASE CONFIGURATION)



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T449 AF (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	19.533	38.24	Pk	32.7	-25.2	-9.5	36.24	54	-17.76	74	-37.76
2	22.359	37.77	Pk	33.5	-24.7	-9.5	37.07	54	-16.93	74	-36.93
3	22.974	38	Pk	33.6	-25.1	-9.5	37	54	-17	74	-37
4	18.949	37.89	Pk	32.4	-24.9	-9.5	35.89	54	-18.11	74	-38.11
5	21.386	38.25	Pk	33.1	-25.6	-9.5	36.25	54	-17.75	74	-37.75
6	24.18	39.16	Pk	33.9	-24.3	-9.5	39.26	54	-14.74	74	-34.74

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 (dBuV)	
	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.

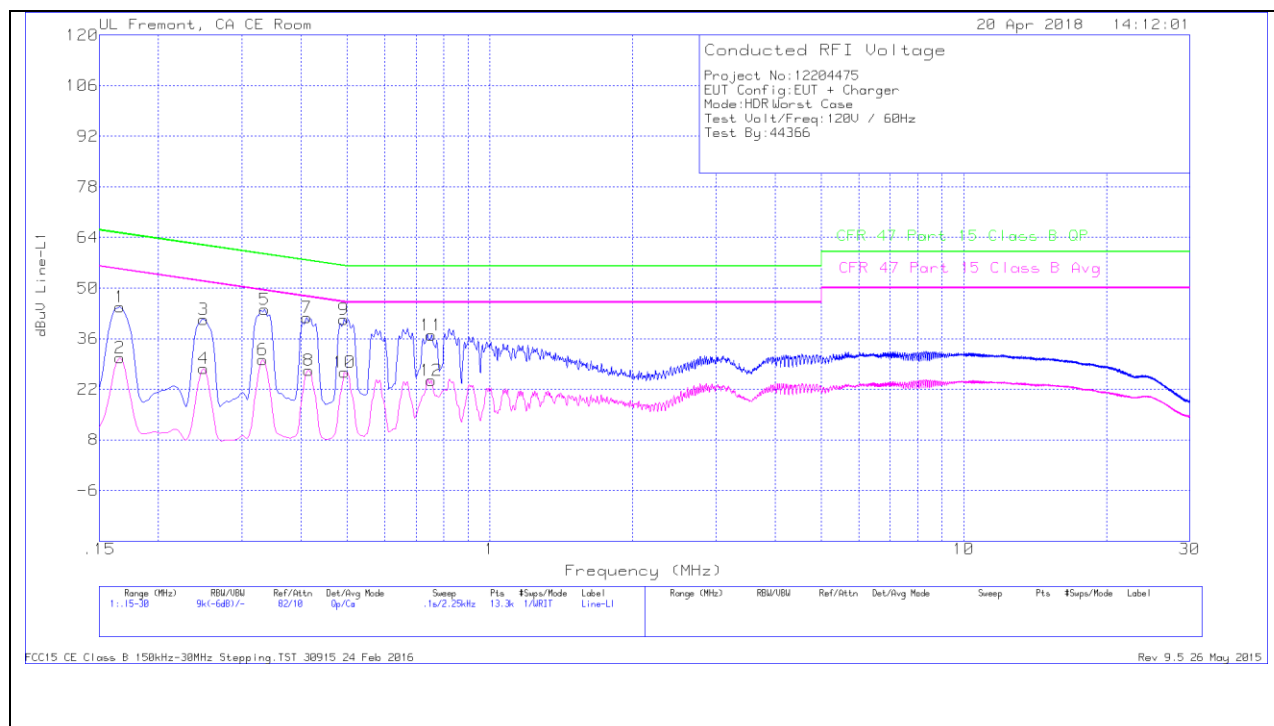
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

10.1.1. AC Power Line with AC Charger

LINE 1 RESULTS



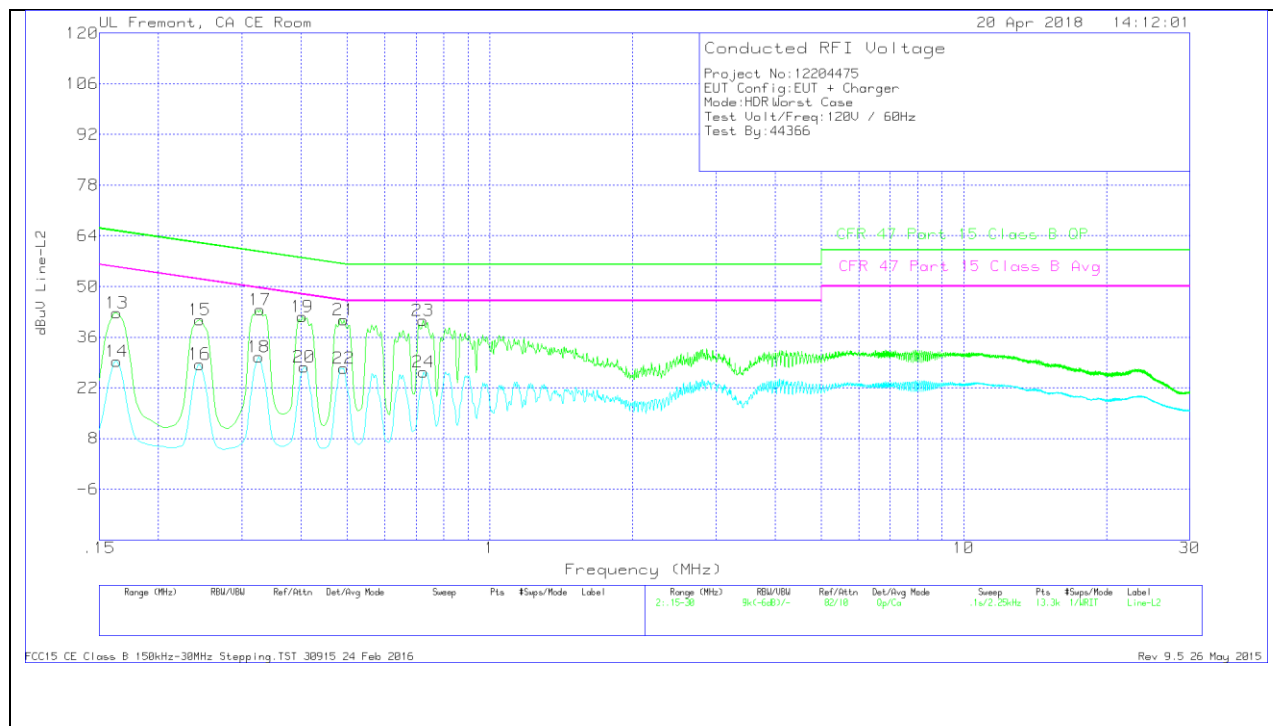
DATA

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	.16575	34.59	Qp	.1	0	10.1	44.79	65.17	-20.38	-	-
2	.16575	20.43	Ca	.1	0	10.1	30.63	-	-	55.17	-24.54
3	.249	31.21	Qp	0	0	10.1	41.31	61.79	-20.48	-	-
4	.249	17.61	Ca	0	0	10.1	27.71	-	-	51.79	-24.08
5	.3345	33.91	Qp	0	0	10.1	44.01	59.34	-15.33	-	-
6	.33225	20.11	Ca	0	0	10.1	30.21	-	-	49.39	-19.18
7	.411	31.74	Qp	0	0	10.1	41.84	57.63	-15.79	-	-
8	.4155	17.2	Ca	0	0	10.1	27.3	-	-	47.54	-20.24
9	.492	31.22	Qp	0	0	10.1	41.32	56.13	-14.81	-	-
10	.49425	16.6	Ca	0	0	10.1	26.7	-	-	46.1	-19.4
11	.753	26.84	Qp	0	0	10.1	36.94	56	-19.06	-	-
12	.753	14.35	Ca	0	0	10.1	24.45	-	-	46	-21.55

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



DATA

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	.1635	32.64	Qp	0	0	10.1	42.74	65.28	-22.54	-	-
14	.1635	19.21	Ca	0	0	10.1	29.31	-	-	55.28	-25.97
15	.2445	30.62	Qp	0	0	10.1	40.72	61.94	-21.22	-	-
16	.2445	18.43	Ca	0	0	10.1	28.53	-	-	51.94	-23.41
17	.32775	33.4	Qp	0	0	10.1	43.5	59.51	-16.01	-	-
18	.3255	20.36	Ca	0	0	10.1	30.46	-	-	49.57	-19.11
19	.402	31.52	Qp	0	0	10.1	41.62	57.81	-16.19	-	-
20	.4065	17.69	Ca	0	0	10.1	27.79	-	-	47.72	-19.93
21	.492	30.73	Qp	0	0	10.1	40.83	56.13	-15.3	-	-
22	.492	17.24	Ca	0	0	10.1	27.34	-	-	46.13	-18.79
23	.72375	30.47	Qp	0	0	10.1	40.57	56	-15.43	-	-
24	.726	16.24	Ca	0	0	10.1	26.34	-	-	46	-19.66

Qp - Quasi-Peak detector

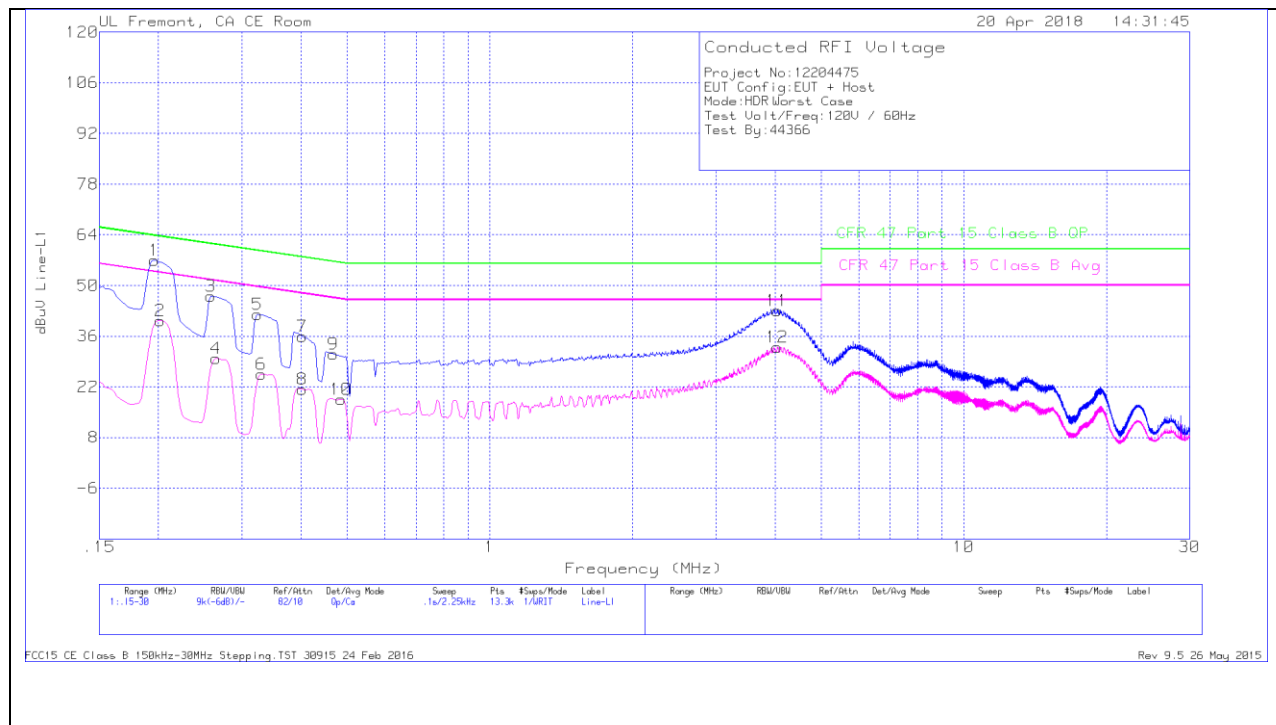
Ca - CISPR average detection

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

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10.1.2. AC Power Line With Host

LINE 1 RESULTS

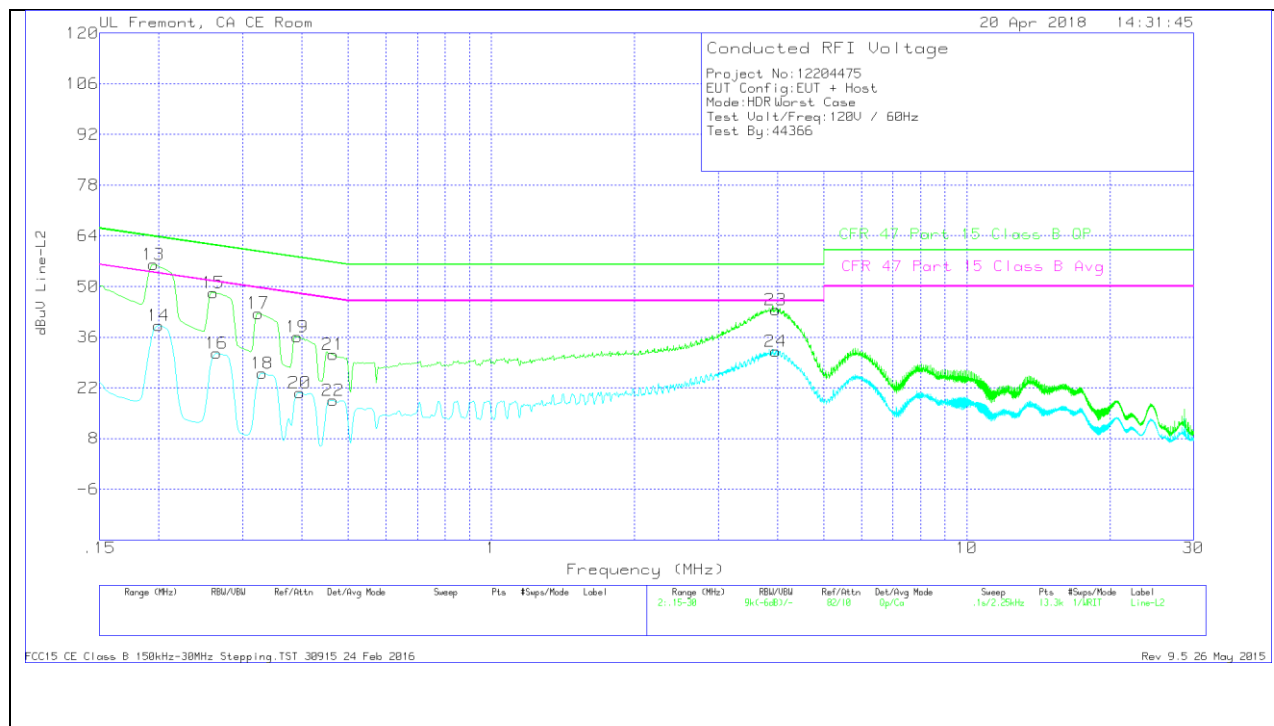


DATA

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	.19613	46.8	Qp	0	0	10.1	56.9	63.77	-6.87	-	-
2	.20175	30.2	Ca	0	0	10.1	40.3	-	-	53.54	-13.24
3	.258	36.97	Qp	0	0	10.1	47.07	61.5	-14.43	-	-
4	.26475	19.73	Ca	0	0	10.1	29.83	-	-	51.28	-21.45
5	.32325	31.88	Qp	0	0	10.1	41.98	59.62	-17.64	-	-
6	.33	15.42	Ca	0	0	10.1	25.52	-	-	49.45	-23.93
7	.402	25.84	Qp	0	0	10.1	35.94	57.81	-21.87	-	-
8	.402	11.23	Ca	0	0	10.1	21.33	-	-	47.81	-26.48
9	.46725	20.93	Qp	0	0	10.1	31.03	56.56	-25.53	-	-
10	.48525	8.5	Ca	0	0	10.1	18.6	-	-	46.25	-27.65
11	4.038	32.85	Qp	0	.1	10.1	43.05	56	-12.95	-	-
12	4.038	22.81	Ca	0	.1	10.1	33.01	-	-	46	-12.99

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



DATA

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	.195	45.92	Qp	0	0	10.1	56.02	63.82	-7.8	-	-
14	.1995	29.09	Ca	0	0	10.1	39.19	-	-	53.63	-14.44
15	.26025	38.22	Qp	0	0	10.1	48.32	61.42	-13.1	-	-
16	.26475	21.43	Ca	0	0	10.1	31.53	-	-	51.28	-19.75
17	.32325	32.51	Qp	0	0	10.1	42.61	59.62	-17.01	-	-
18	.33	15.94	Ca	0	0	10.1	26.04	-	-	49.45	-23.41
19	.39075	25.94	Qp	0	0	10.1	36.04	58.05	-22.01	-	-
20	.39525	10.52	Ca	0	0	10.1	20.62	-	-	47.95	-27.33
21	.465	21.05	Qp	0	0	10.1	31.15	56.6	-25.45	-	-
22	.465	8.36	Ca	0	0	10.1	18.46	-	-	46.6	-28.14
23	3.96375	33.4	Qp	0	.1	10.1	43.6	56	-12.4	-	-
24	3.96375	21.87	Ca	0	.1	10.1	32.07	-	-	46	-13.93

Qp - Quasi-Peak detector
Ca - CISPR average detection

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END OF REPORT

11. SETUP PHOTOS

Please refer to 12204475-EP1V1 for setup photos