

8.5. 11n HT20 2TX CDD MIMO MODE IN THE 2.4GHz BAND

8.5.1. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

IC RSS-247 (5.2) (a)

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

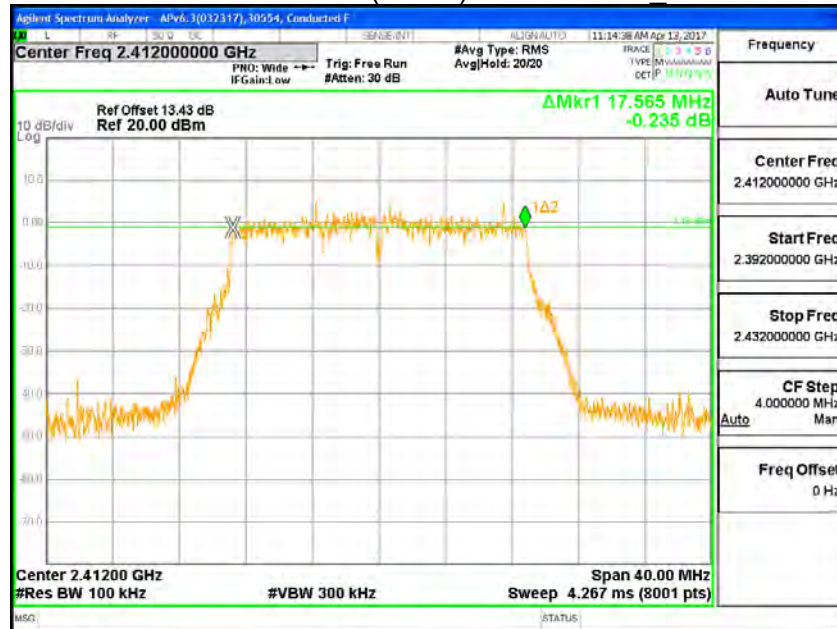
RESULTS

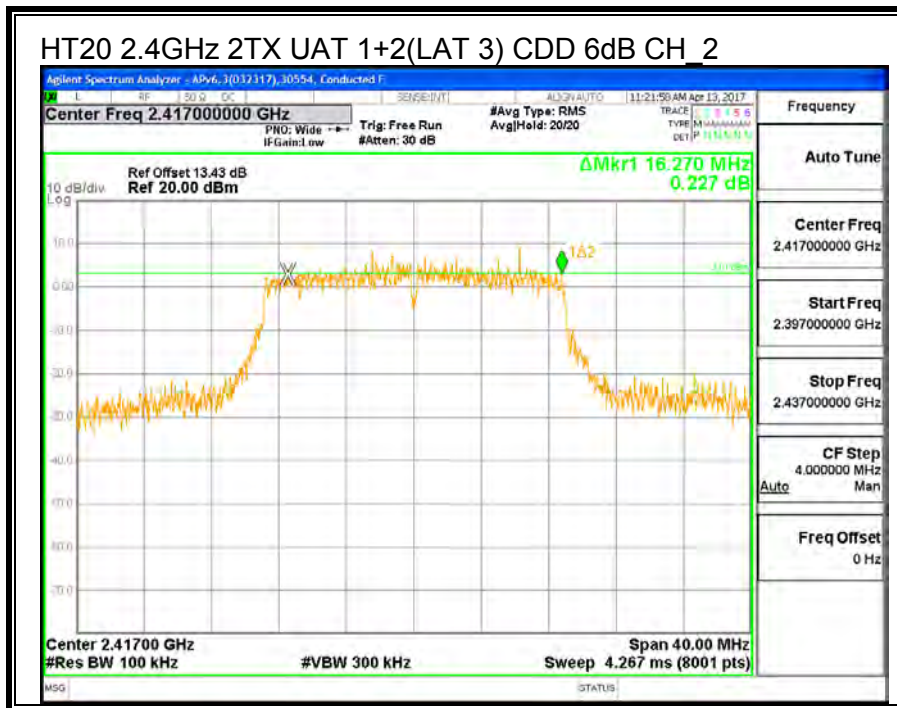
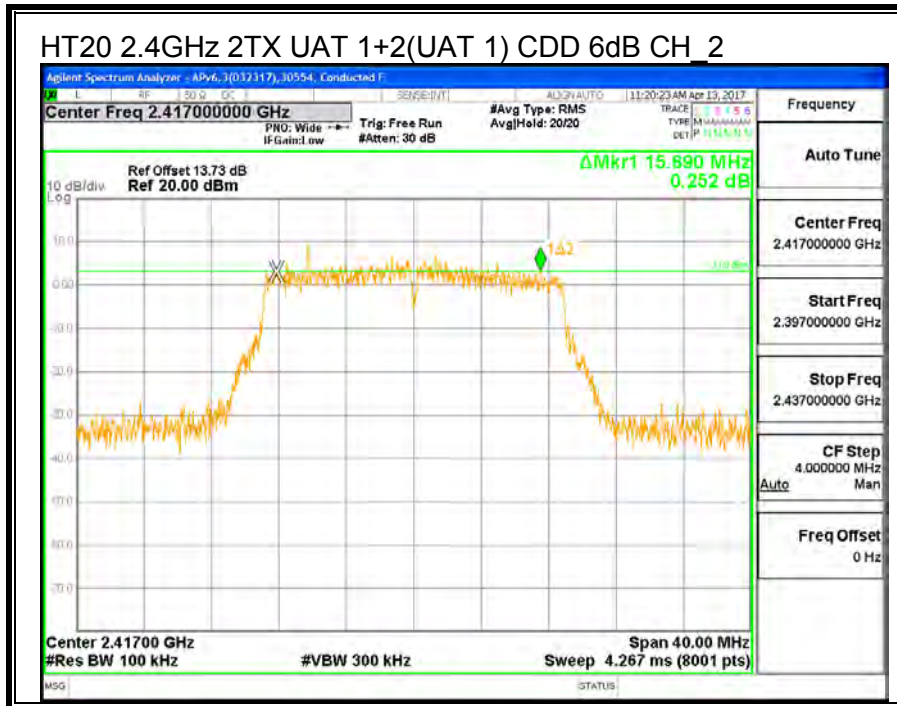
Channel	Frequen cy	6 dB BW UAT 1 (MHz)	6 dB BW LAT 3 (MHz)	Minimum Limit (MHz)
Low_1	2412	16.085	17.565	0.5
Low_2	2417	15.690	16.270	0.5
Middle_6	2437	17.610	17.275	0.5
High_9	2452	17.325	17.565	0.5
High_10	2457	15.540	17.565	0.5
High_11	2462	15.105	16.915	0.5
High_12	2467	17.615	17.600	0.5
High_13	2472	17.250	16.315	0.5

HT20 2.4GHz 2TX UAT 1+2(UAT 1) CDD 6dB CH 1

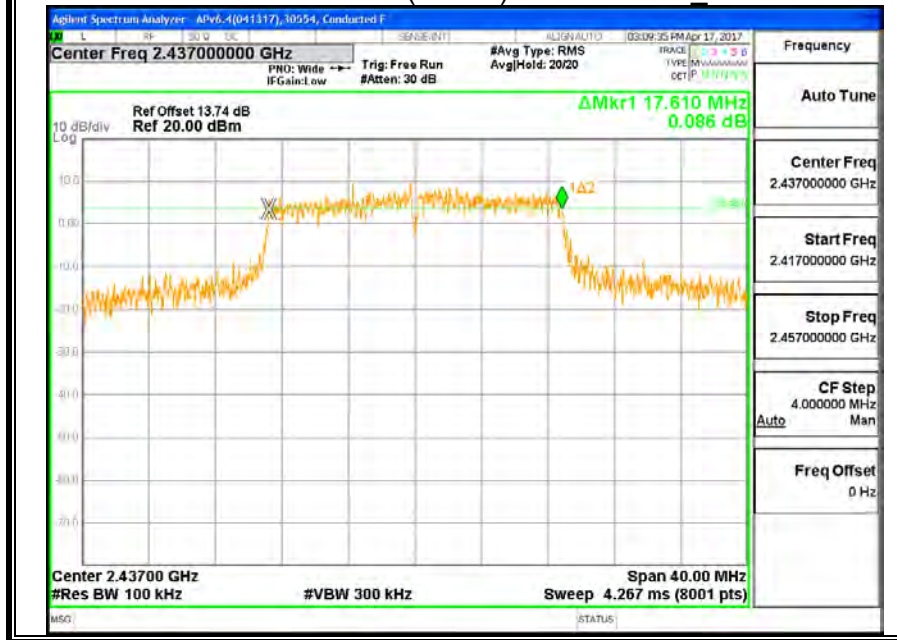


HT20 2.4GHz 2TX UAT 1+2(LAT 3) CDD 6dB CH 1

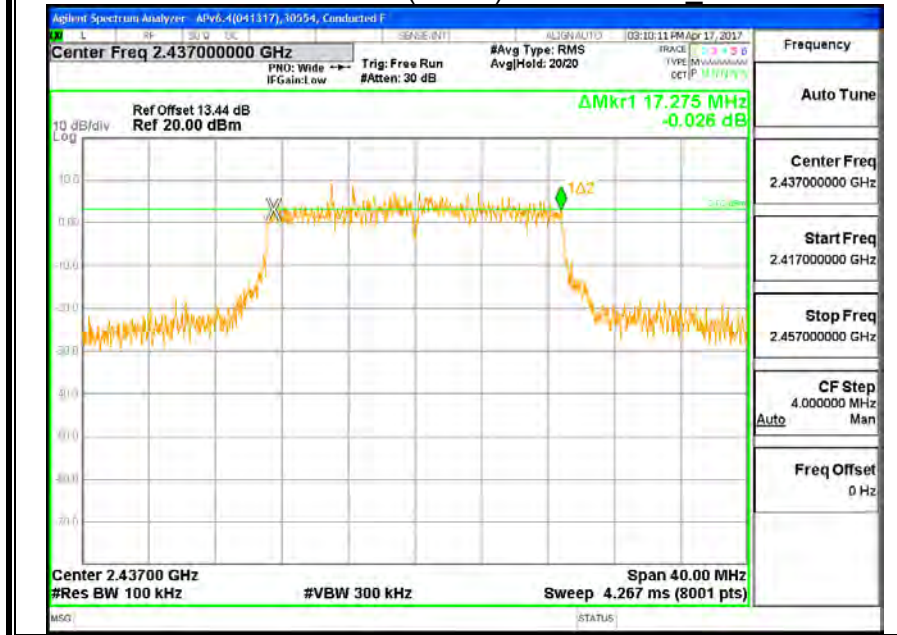


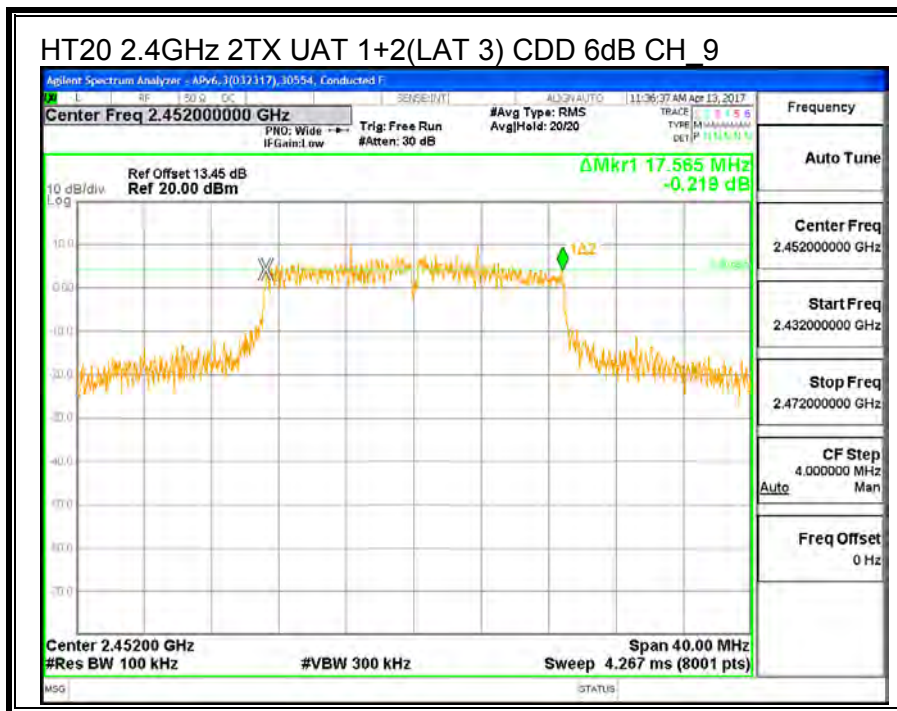
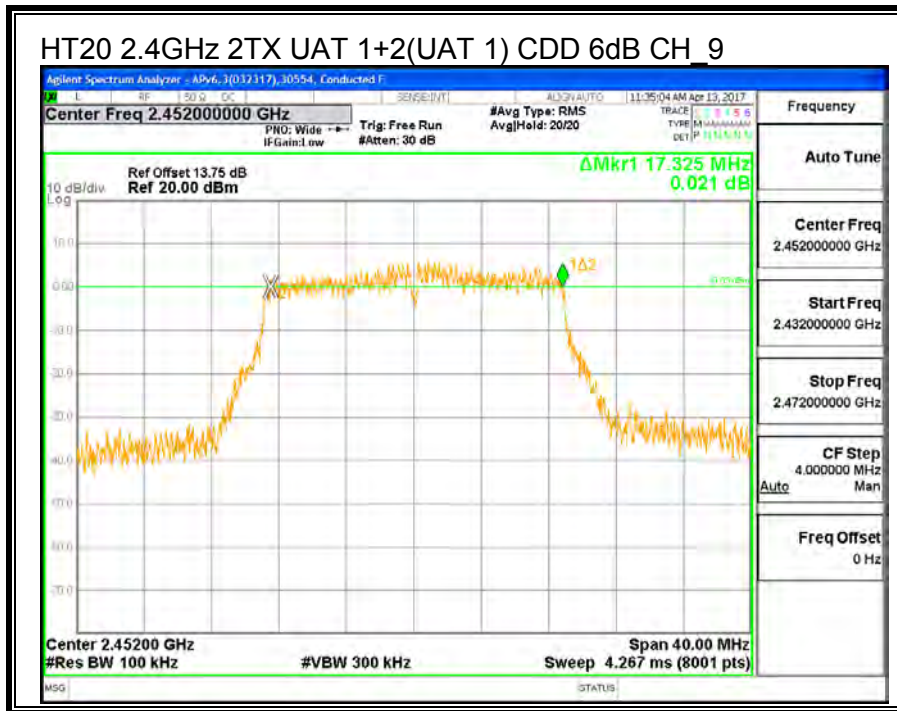


HT20 2.4GHz 2TX UAT 1+2(UAT 1) CDD 6dB CH 6

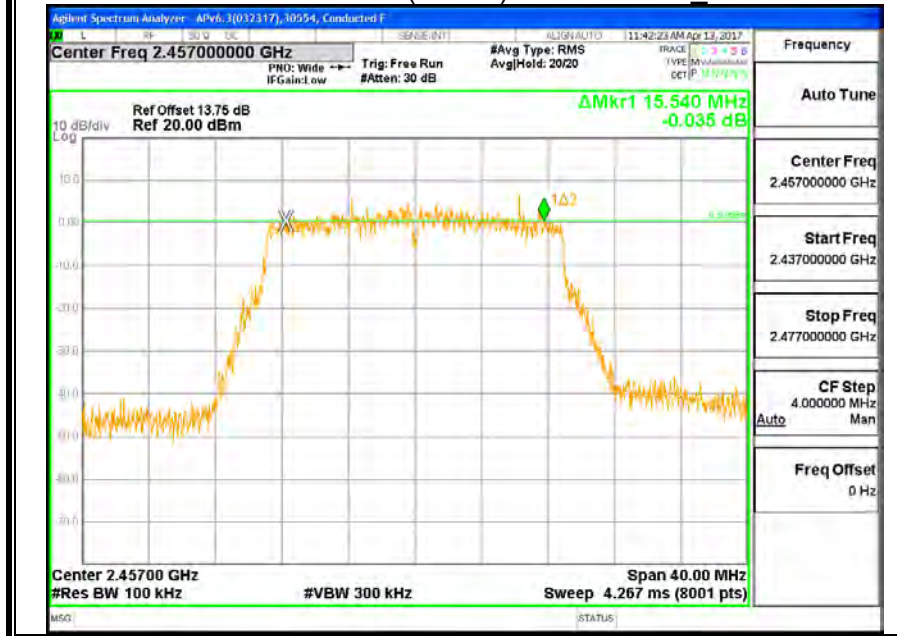


HT20 2.4GHz 2TX UAT 1+2(LAT 3) CDD 6dB CH 6

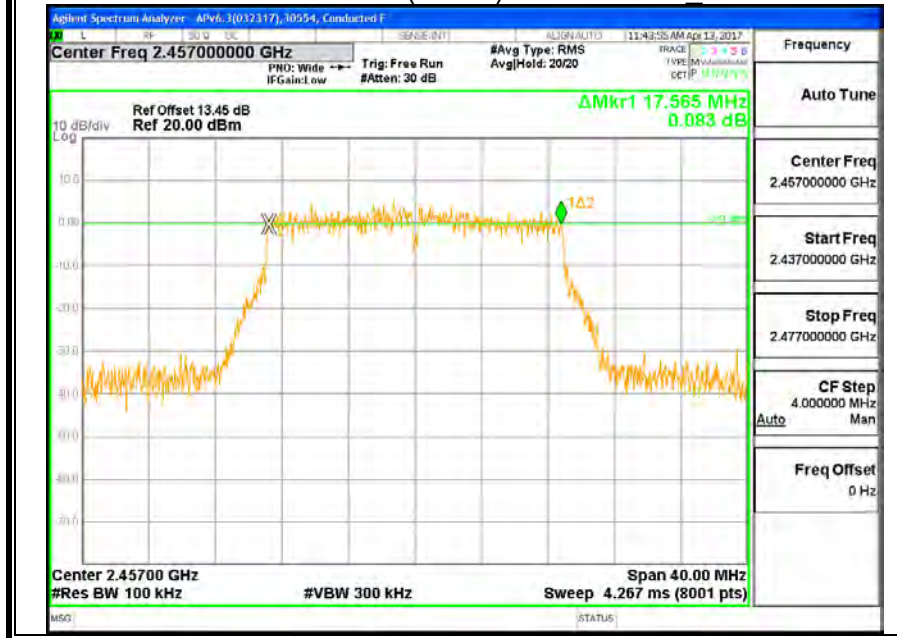




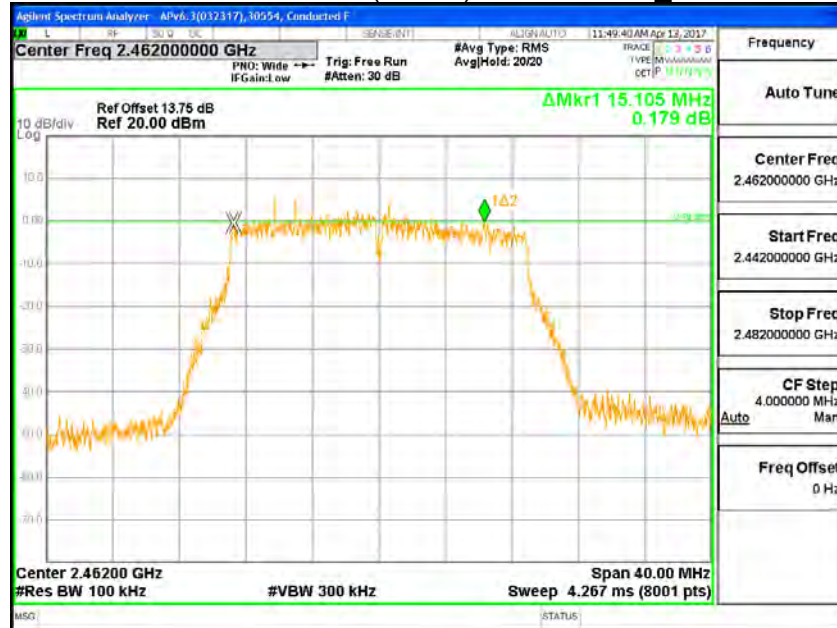
HT20 2.4GHz 2TX UAT 1+2(UAT 1) CDD 6dB CH_10



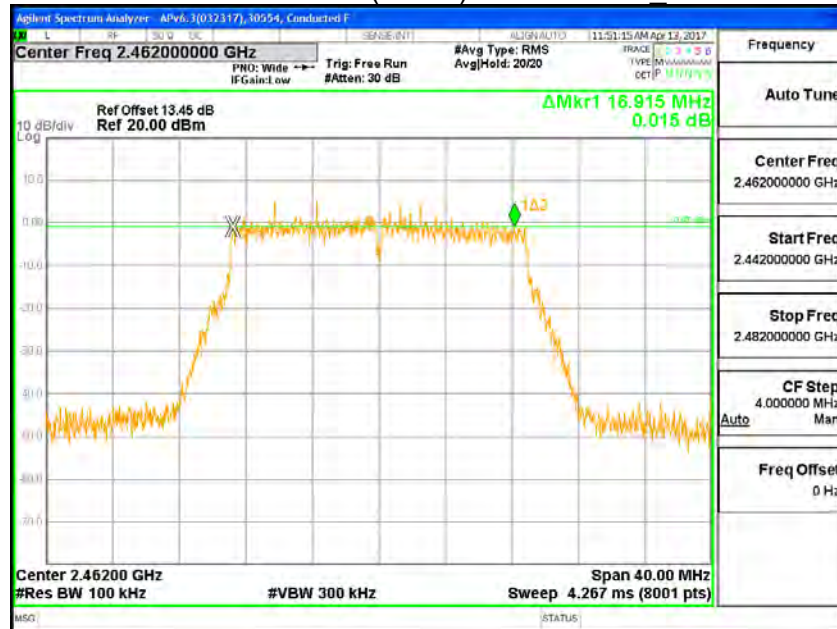
HT20 2.4GHz 2TX UAT 1+2(LAT 3) CDD 6dB CH_10

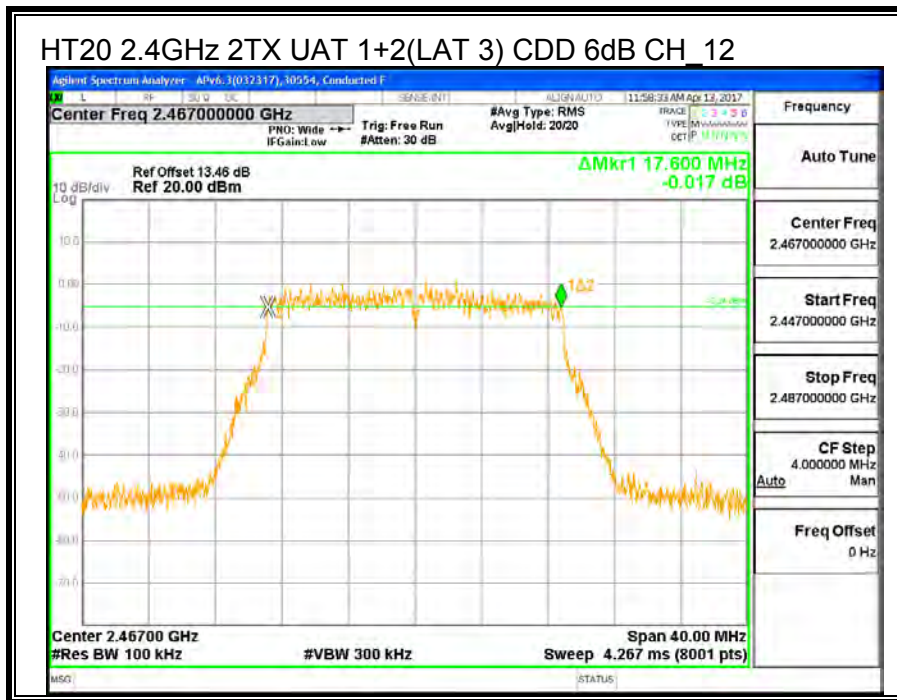
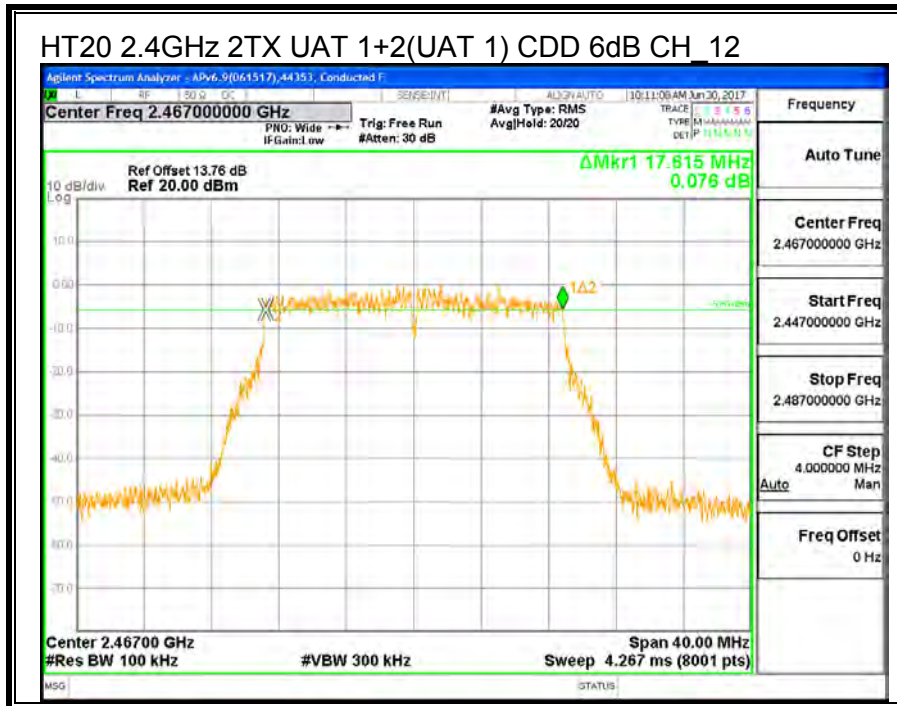


HT20 2.4GHz 2TX UAT 1+2(UAT 1) CDD 6dB CH_11

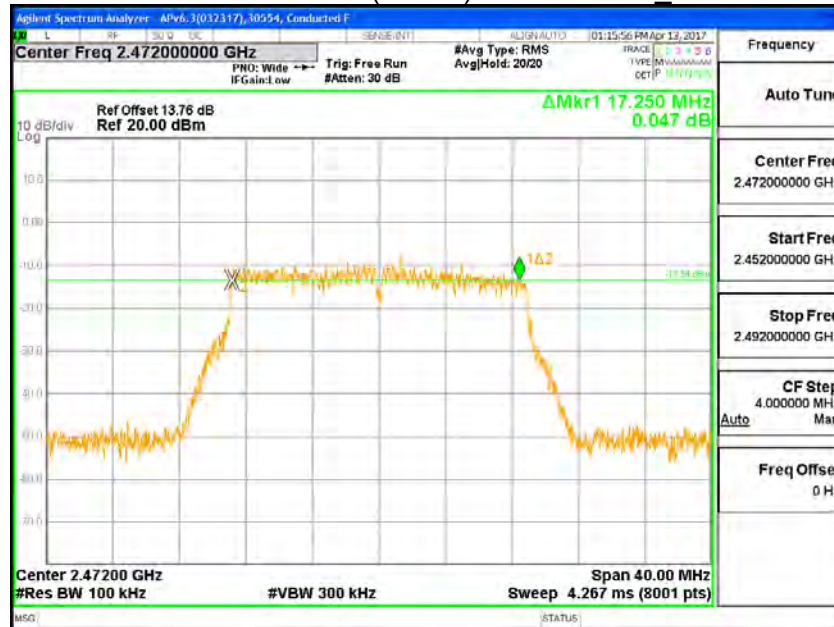


HT20 2.4GHz 2TX UAT 1+2(LAT 3) CDD 6dB CH_11

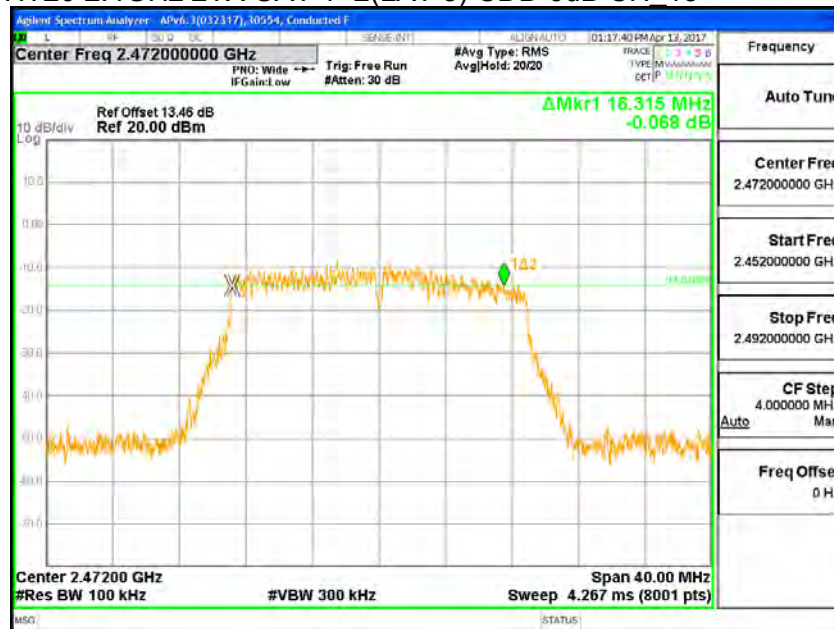




HT20 2.4GHz 2TX UAT 1+2(UAT 1) CDD 6dB CH_13



HT20 2.4GHz 2TX UAT 1+2(LAT 3) CDD 6dB CH_13



8.5.2. 99% BANDWIDTH

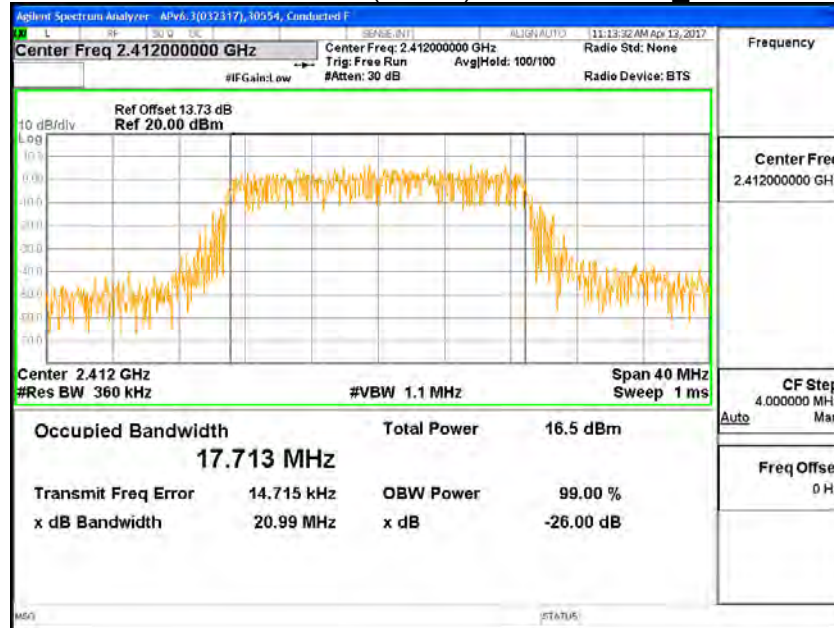
LIMITS

None; for reporting purposes only.

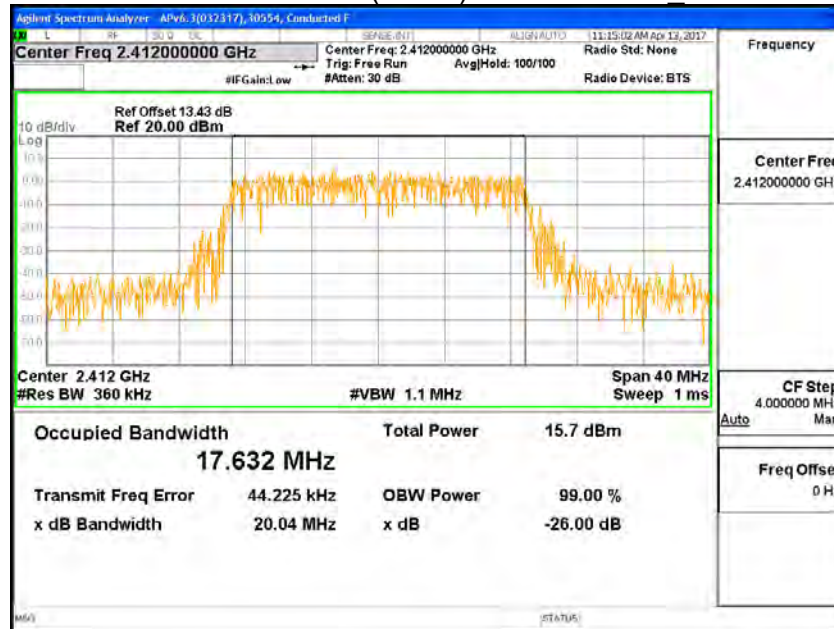
RESULTS

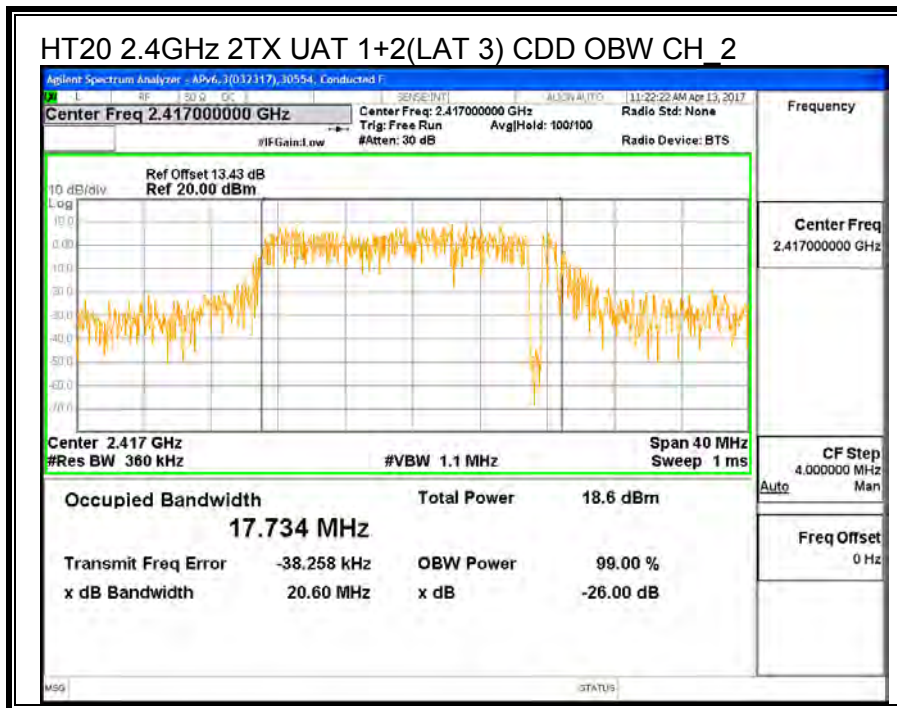
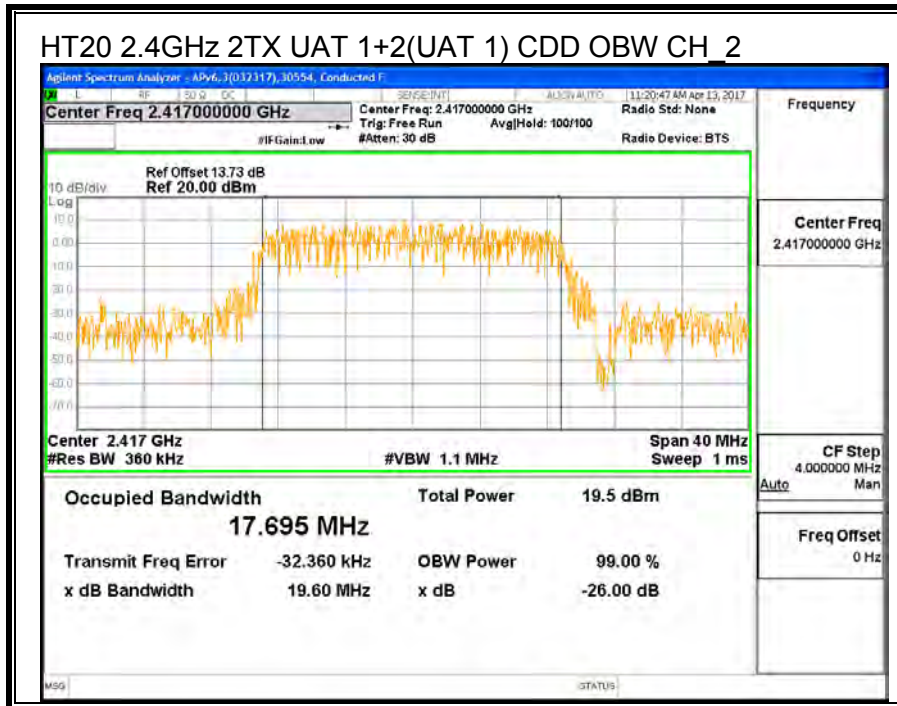
Channel	Frequency (MHz)	99% Bandwidth UAT 1 (MHz)	99% Bandwidth LAT 3 (MHz)
Low_1	2412	17.713	17.632
Low_2	2417	17.695	17.734
Middle_6	2437	17.841	17.972
High_9	2452	17.685	18.251
High_10	2457	17.076	17.659
High_11	2462	17.686	17.793
High_12	2467	17.707	17.663
High_13	2472	17.780	17.688

HT20 2.4GHz 2TX UAT 1+2(UAT 1) CDD OBW CH_1



HT20 2.4GHz 2TX UAT 1+2(LAT 3) CDD OBW CH_1

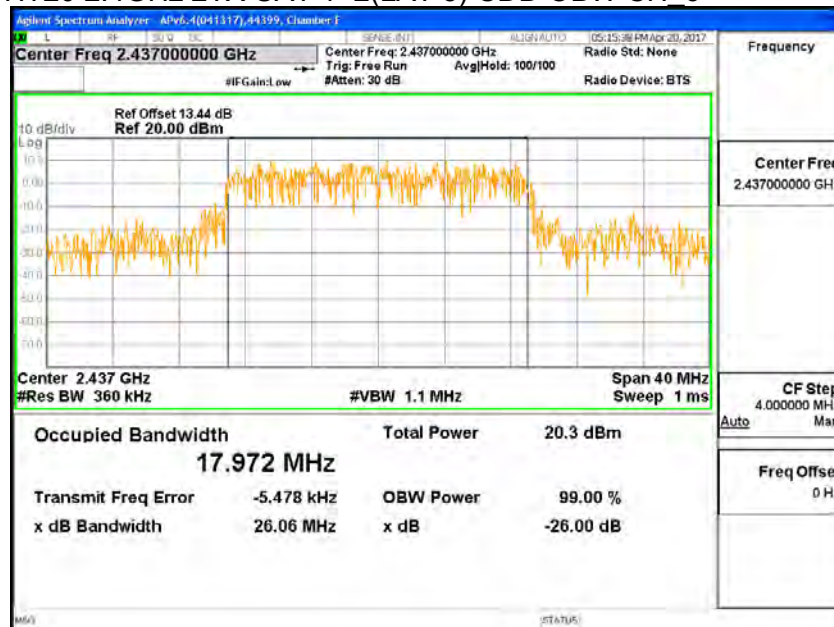




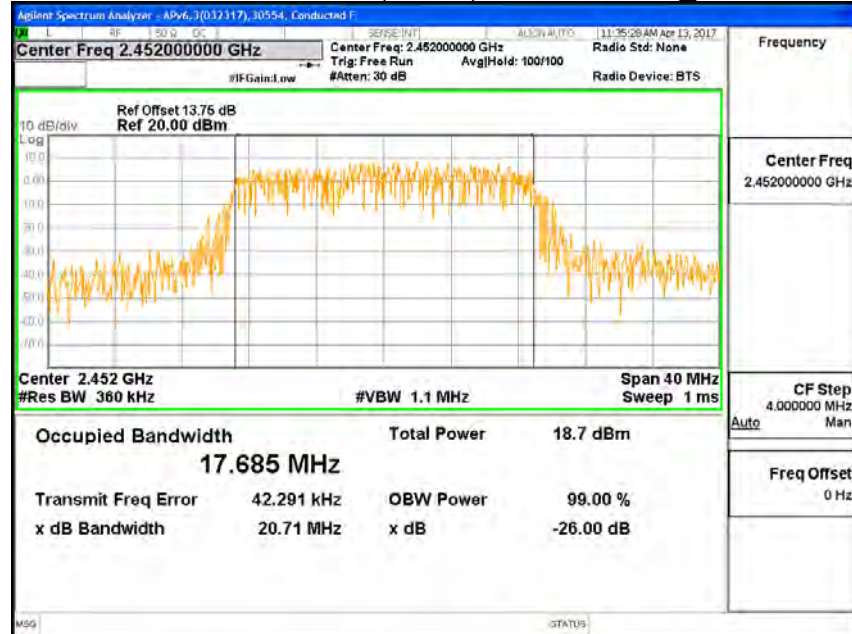
HT20 2.4GHz 2TX UAT 1+2(UAT 1) CDD OBW CH_6



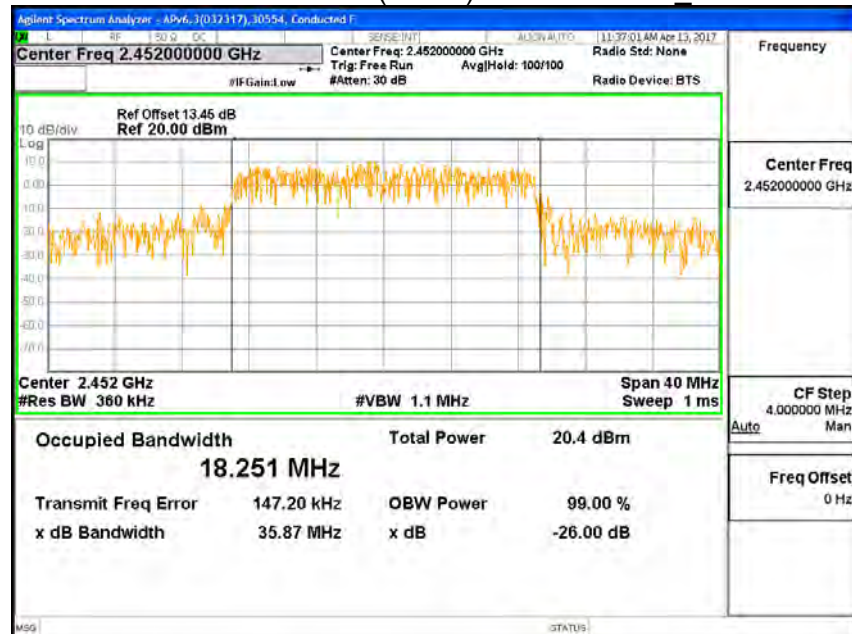
HT20 2.4GHz 2TX UAT 1+2(LAT 3) CDD OBW CH_6



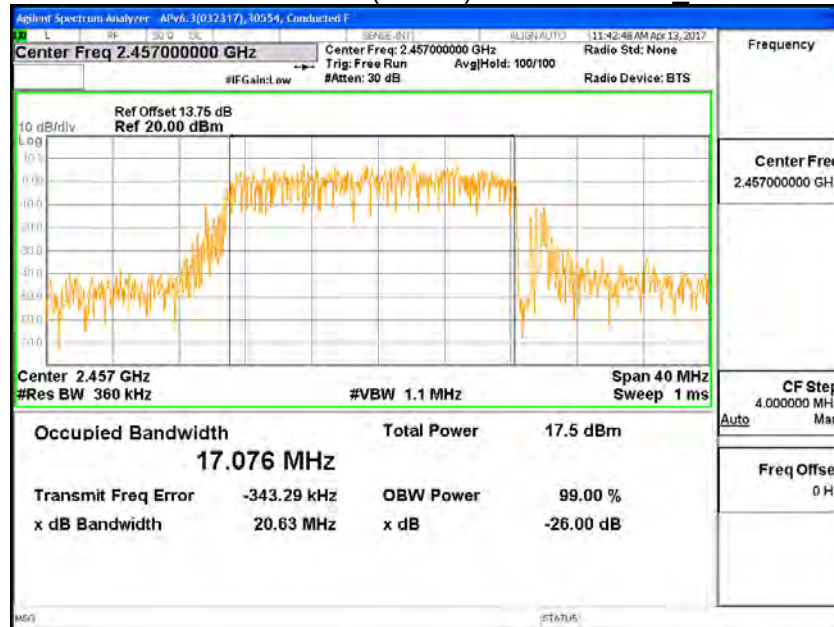
HT20 2.4GHz 2TX UAT 1+2(UAT 1) CDD OBW CH_9



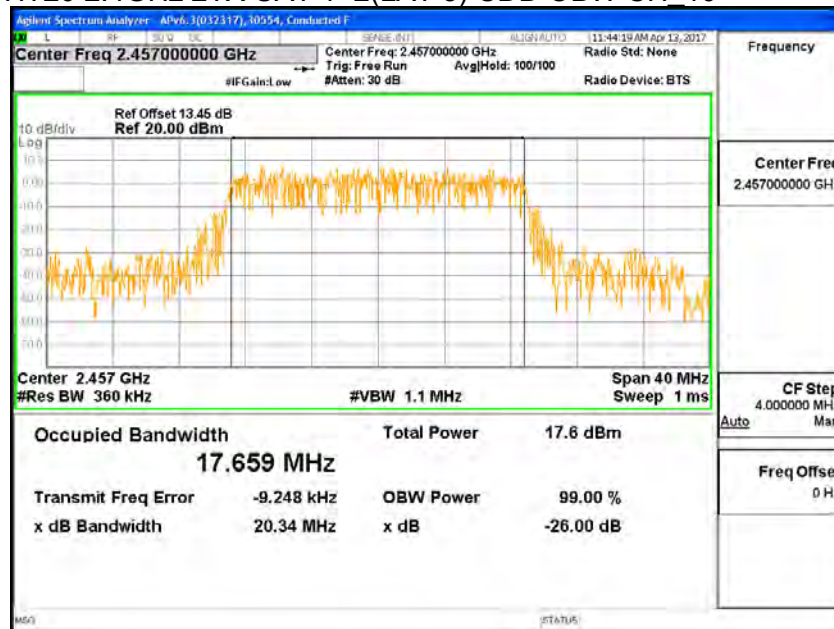
HT20 2.4GHz 2TX UAT 1+2(LAT 3) CDD OBW CH_9



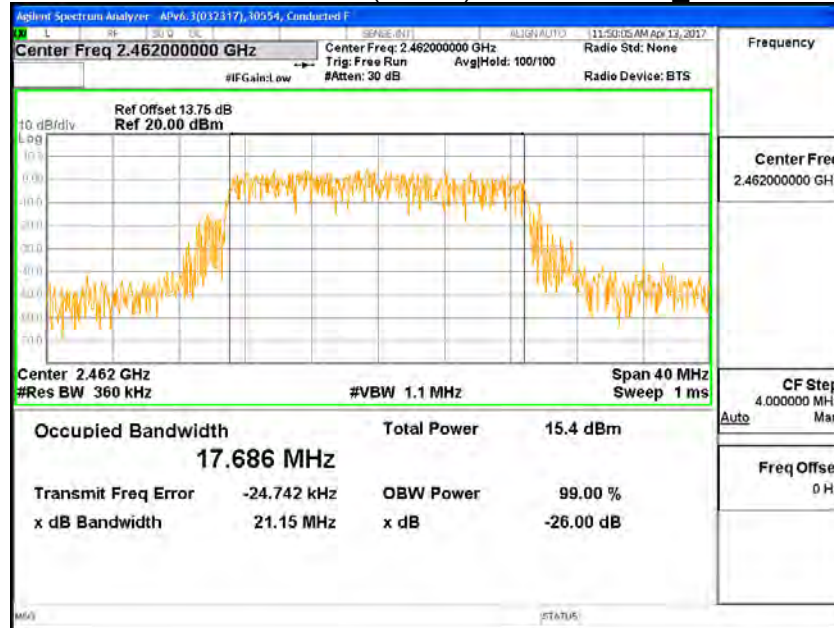
HT20 2.4GHz 2TX UAT 1+2(UAT 1) CDD OBW CH_10



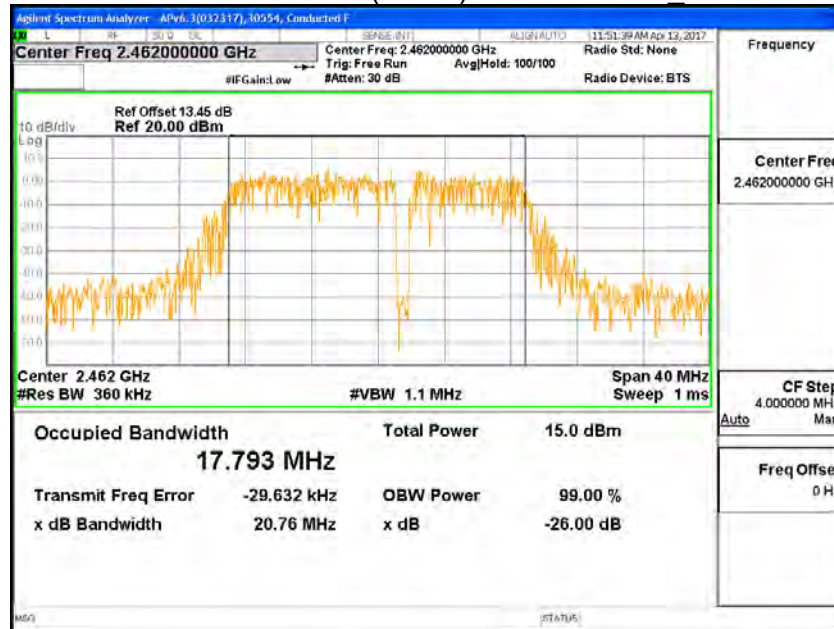
HT20 2.4GHz 2TX UAT 1+2(LAT 3) CDD OBW CH_10



HT20 2.4GHz 2TX UAT 1+2(UAT 1) CDD OBW CH_11



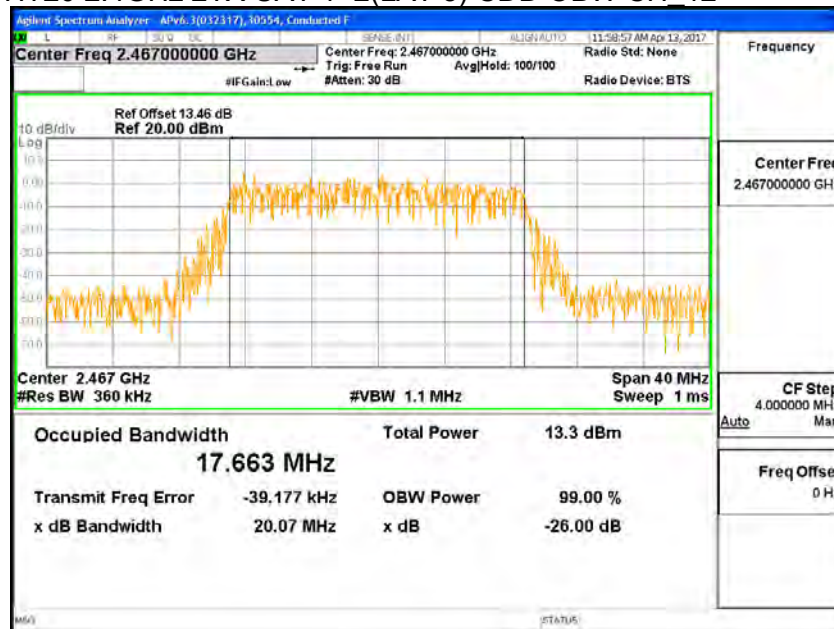
HT20 2.4GHz 2TX UAT 1+2(LAT 3) CDD OBW CH_11



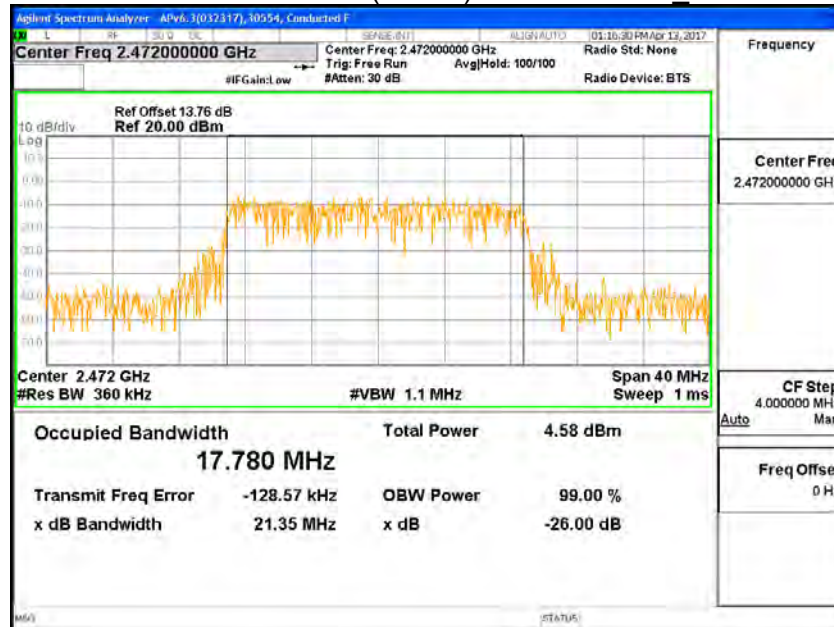
HT20 2.4GHz 2TX UAT 1+2(UAT 1) CDD OBW CH_12



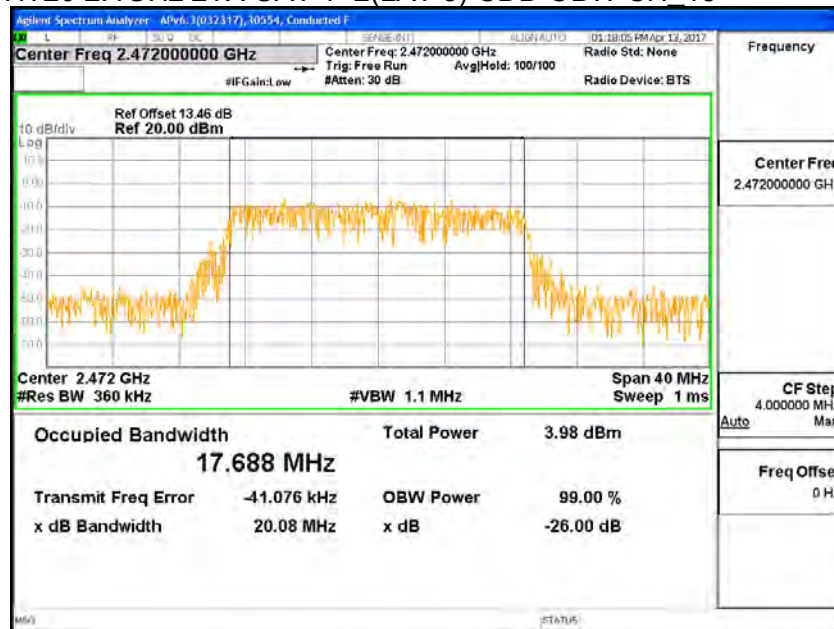
HT20 2.4GHz 2TX UAT 1+2(LAT 3) CDD OBW CH_12



HT20 2.4GHz 2TX UAT 1+2(UAT 1) CDD OBW CH_13



HT20 2.4GHz 2TX UAT 1+2(LAT 3) CDD OBW CH_13



8.5.3. AVERAGE POWER

ID:	39472	Date:	7/10/17
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LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	Power UAT 1 (MHz)	Power LAT 3 (MHz)
Low_1	2412	15.44	15.49
Low_2	2417	17.87	17.92
Middle_6	2437	20.72	20.83
High_9	2452	19.41	19.45
High_10	2457	17.77	17.86
High_11	2462	15.41	15.45
High_12	2467	12.80	12.89
High_13	2472	4.89	4.99

8.5.4. OUTPUT POWER

ID:	39472	Date:	7/10/17
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LIMITS

FCC §15.247

IC RSS-247 (5.4) (d)

For systems using digital modulation in the 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

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

UAT 1	LAT 3	Uncorrelated Chains
Gain (dBi)	Gain (dBi)	Directional Gain (dBi)
-2.54	-1.30	-1.88

RESULTS

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
Low_1	2412	1.88	30.00	30	36	30.00
Low_2	2417	1.88	30.00	30	36	30.00
Mid	2437	1.88	30.00	30	36	30.00
High_9	2452	1.88	30.00	30	36	30.00
High_10	2457	1.88	30.00	30	36	30.00
High_11	2462	1.88	30.00	30	36	30.00
High_12	2467	1.88	30.00	30	36	30.00
High_13	2472	1.88	30.00	30	36	30.00

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

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low_1	2412	22.04	22.09	25.08	30.00	-4.92
Low_2	2417	24.27	24.32	27.31	30.00	-2.69
Mid	2437	26.92	26.97	29.96	30.00	-0.04
High_9	2452	25.97	26.04	29.02	30.00	-0.98
High_10	2457	24.87	23.95	27.44	30.00	-2.56
High_11	2462	21.76	22.22	25.01	30.00	-4.99
High_12	2467	19.50	19.65	22.59	30.00	-7.41
High_13	2472	11.57	11.73	14.66	30.00	-15.34

8.5.5. POWER SPECTRAL DENSITY

LIMITS

FCC §15.247

IC RSS-247 (5.2) (b)

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

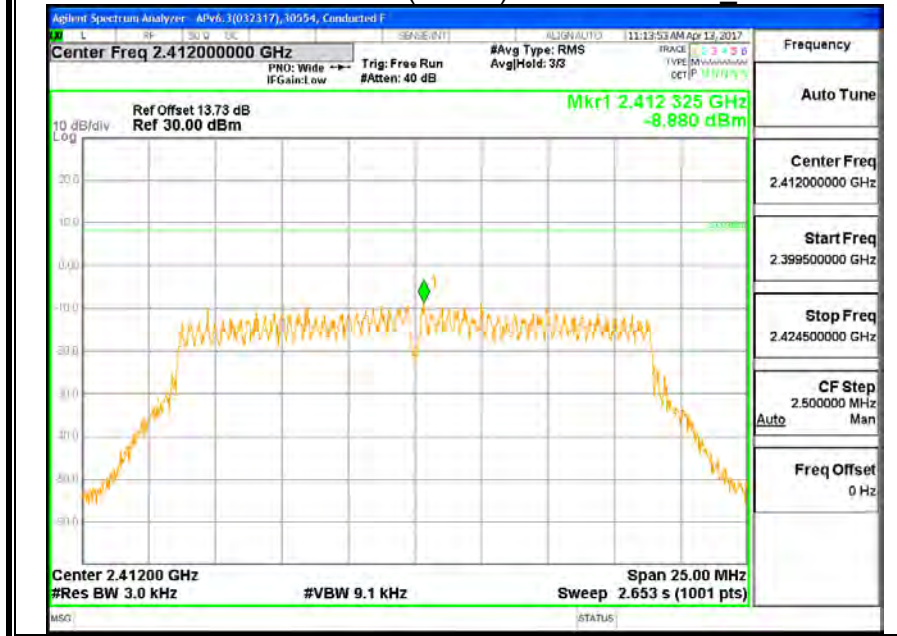
RESULTS

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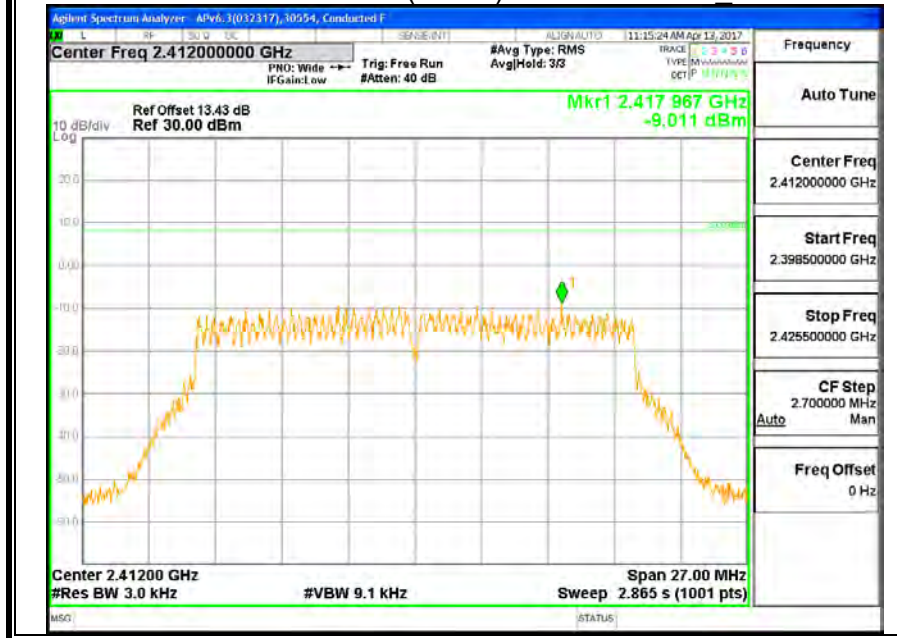
PSD Results

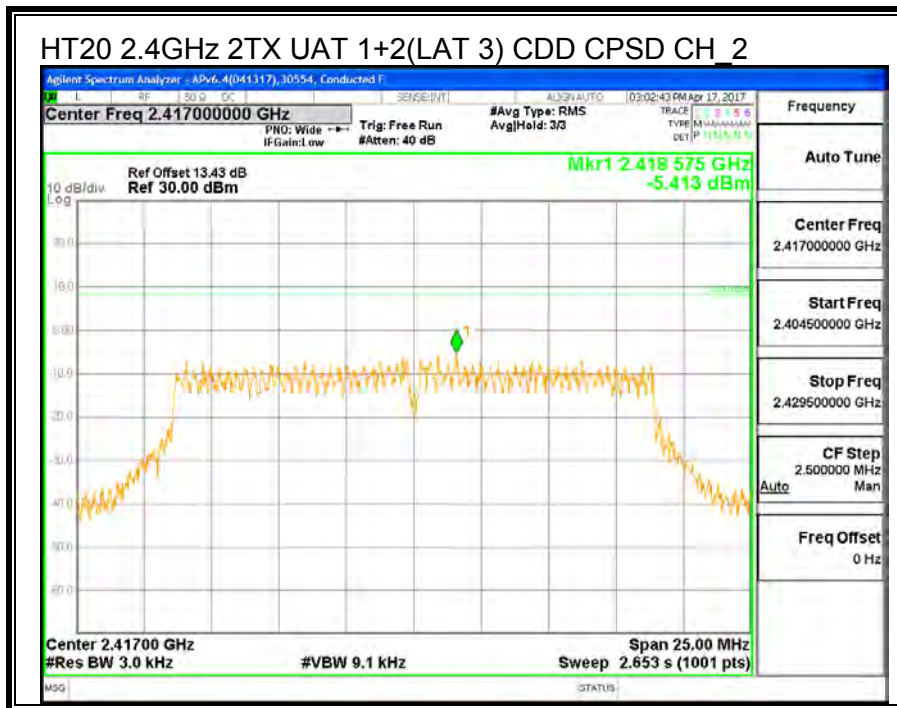
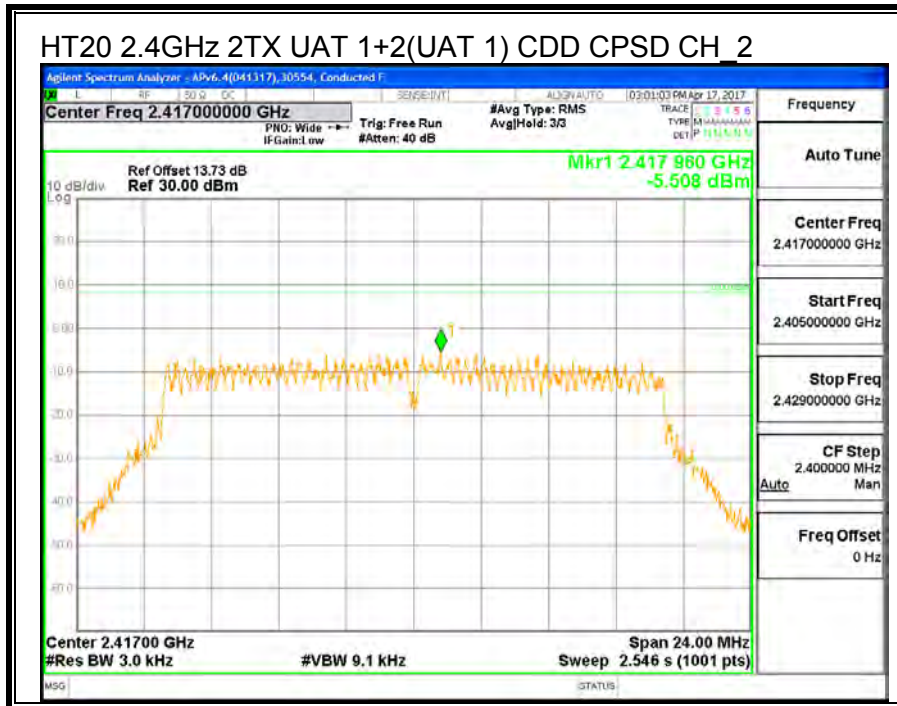
Channel	Frequency (MHz)	UAT 1 Meas (dBm)	LAT 3 Meas (dBm)	Total Corr'd PSD (dBm)	Limit (dBm)	Margin (dB)
Low_1	2412	-8.88	-9.01	-5.93	8.0	-13.9
Low_2	2417	-5.51	-5.41	-2.45	8.0	-10.4
Mid	2437	-3.36	-4.68	-0.96	8.0	-9.0
High_9	2452	-5.79	-5.89	-2.82	8.0	-10.8
High_10	2457	-9.48	-7.80	-5.55	8.0	-13.5
High_11	2462	-8.01	-9.71	-5.77	8.0	-13.8
High_12	2467	-12.46	-11.99	-9.21	8.0	-17.2
High_13	2472	-21.18	-20.10	-17.59	8.0	-25.6

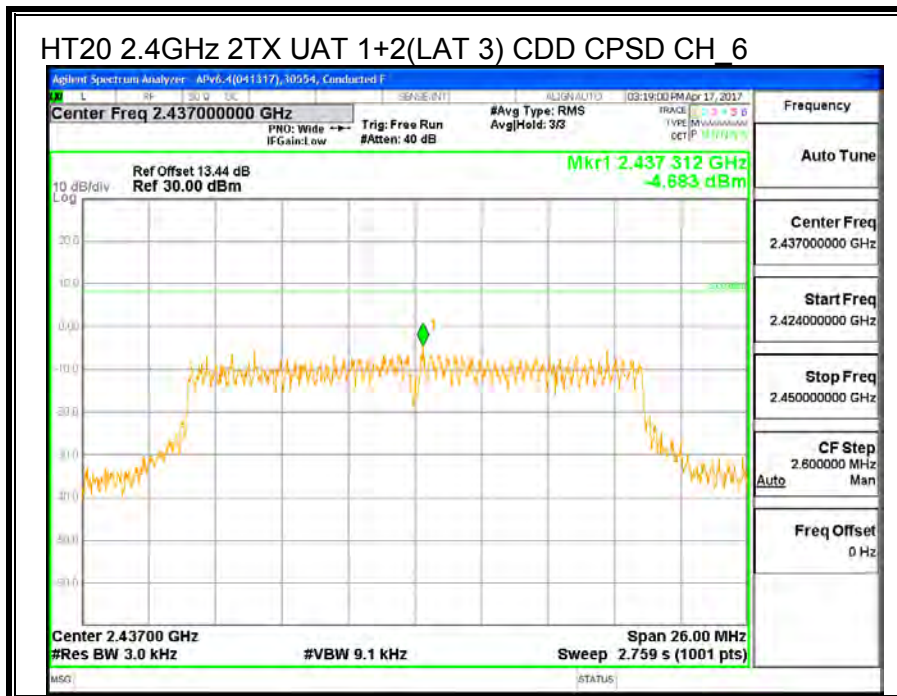
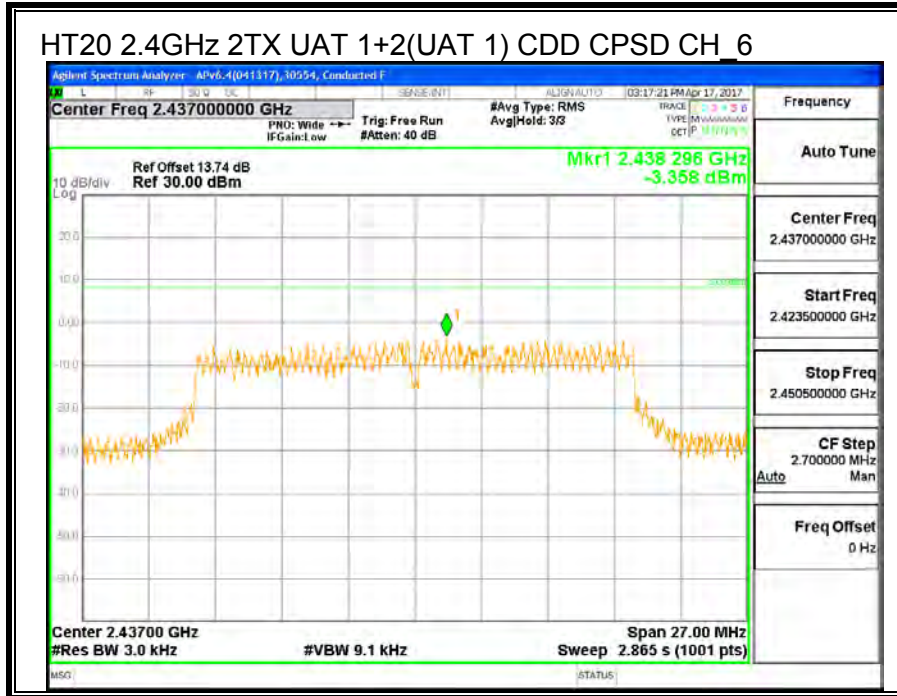
HT20 2.4GHz 2TX UAT 1+2(UAT 1) CDD CPD CH 1

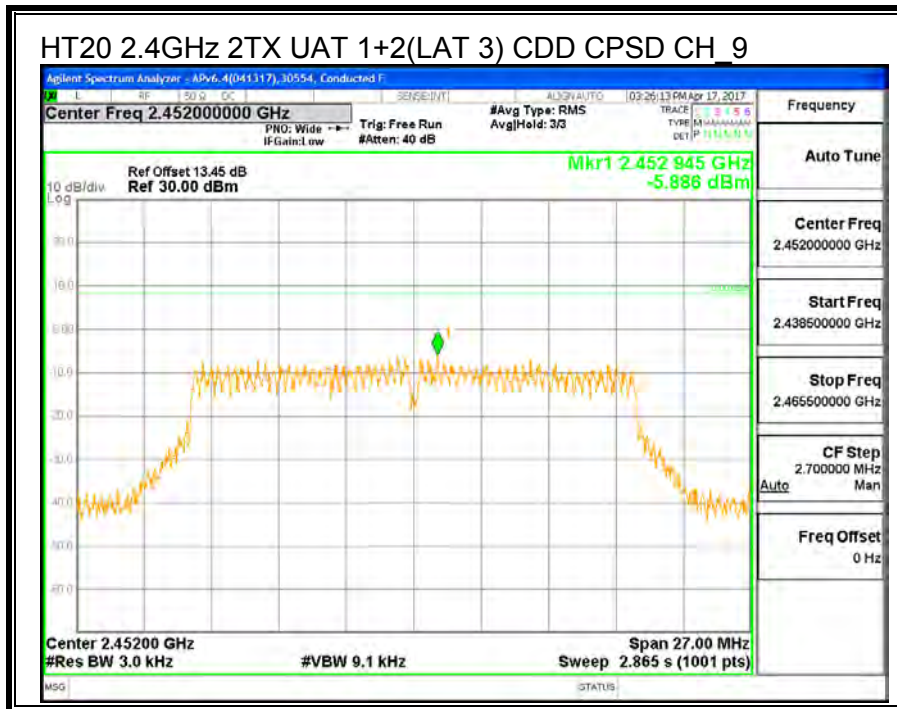
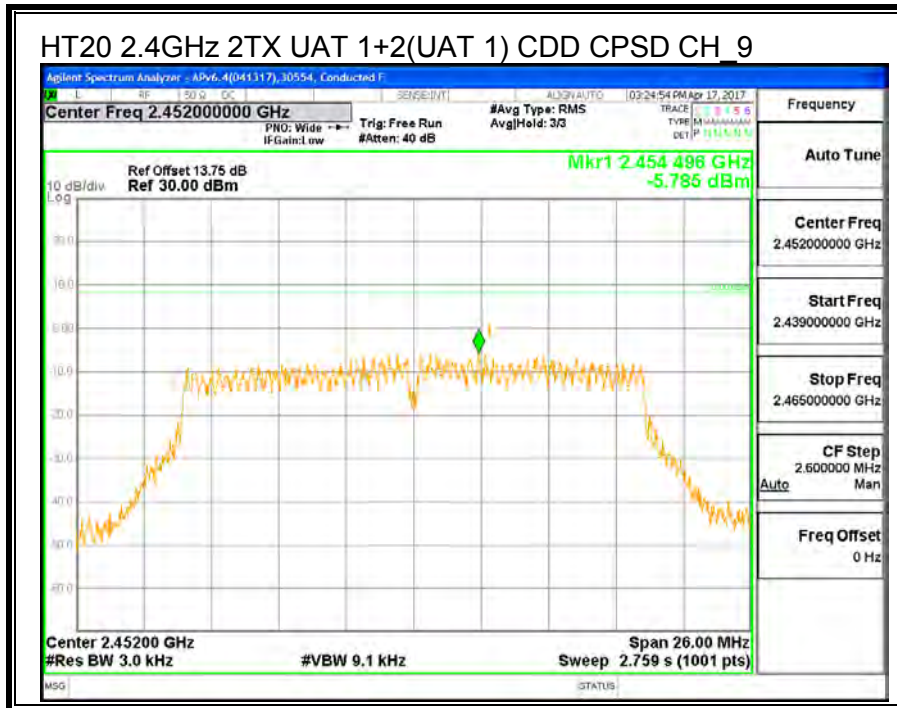


HT20 2.4GHz 2TX UAT 1+2(LAT 3) CDD CPD CH 1





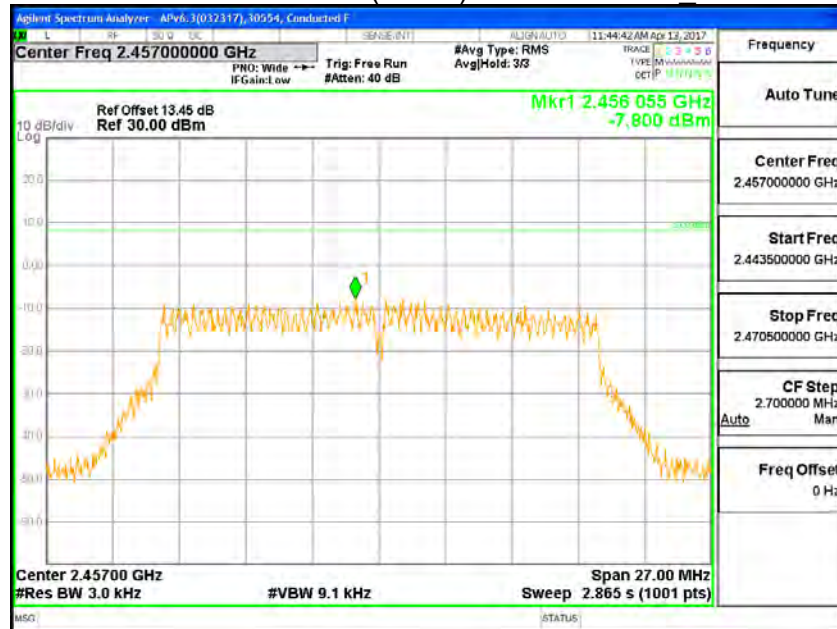


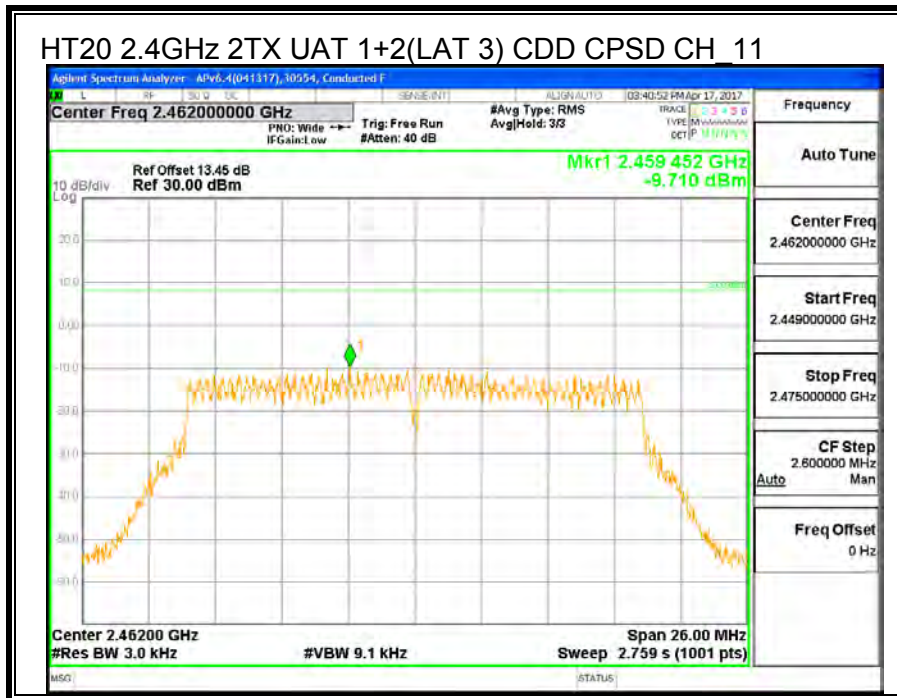
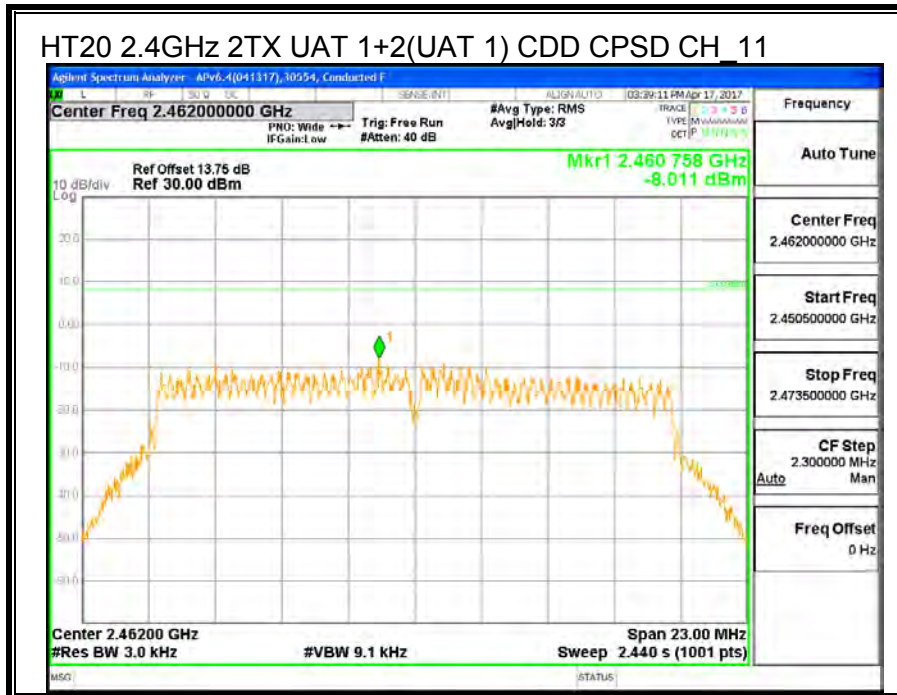


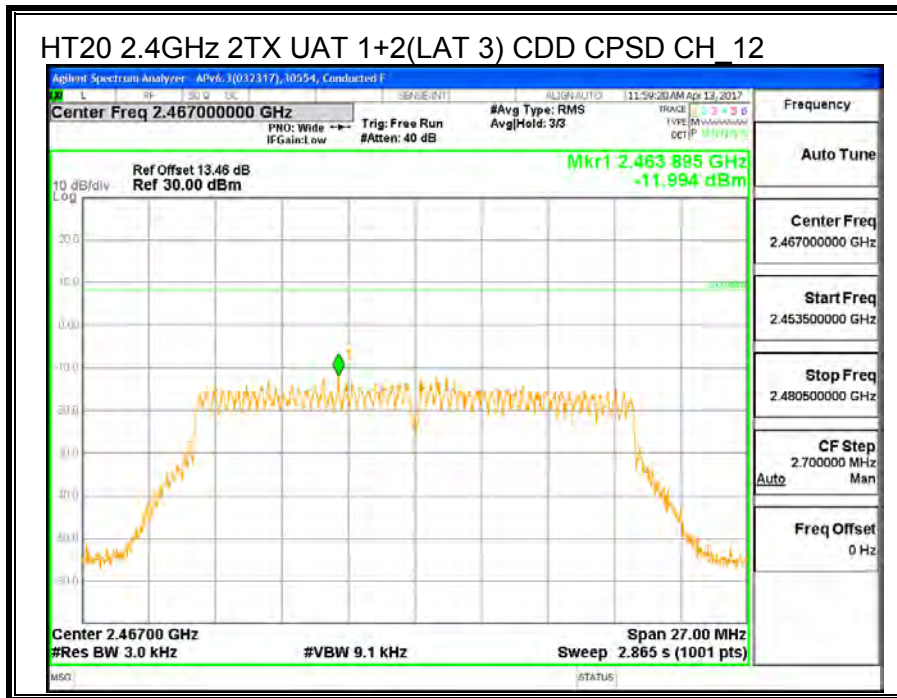
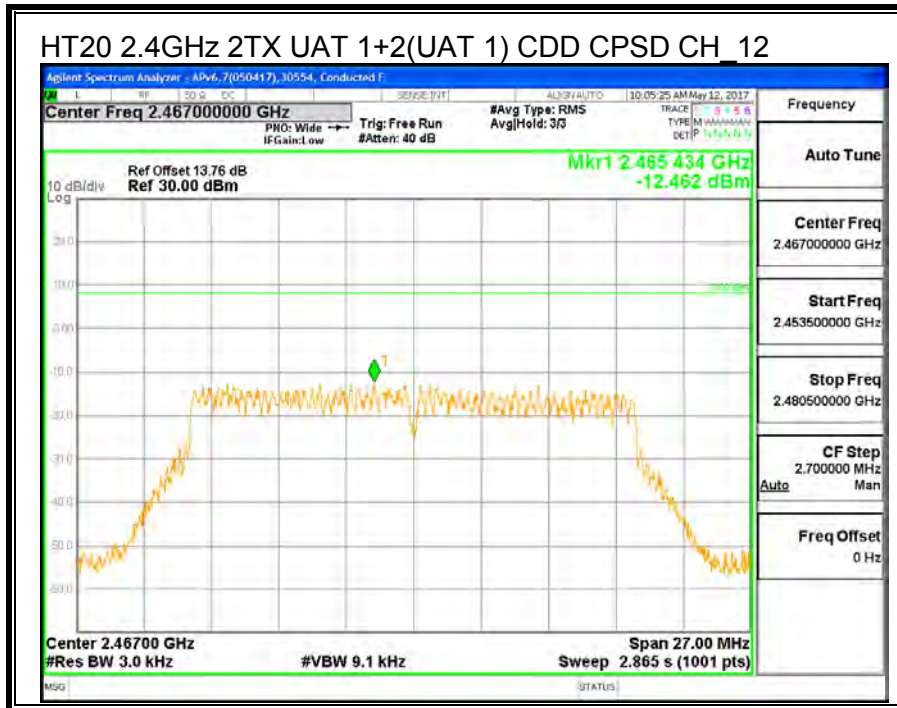
HT20 2.4GHz 2TX UAT 1+2(UAT 1) CDD CPD CH_10



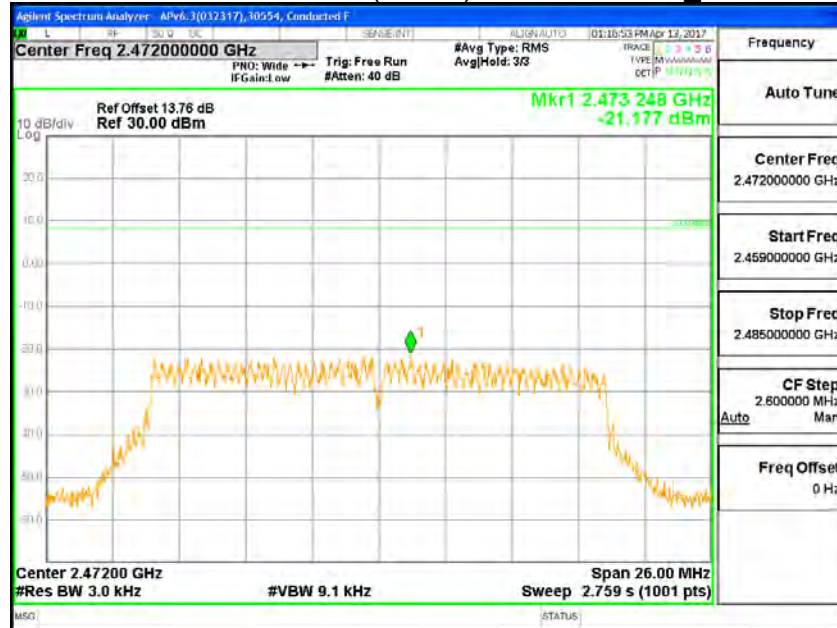
HT20 2.4GHz 2TX UAT 1+2(LAT 3) CDD CPD CH_10



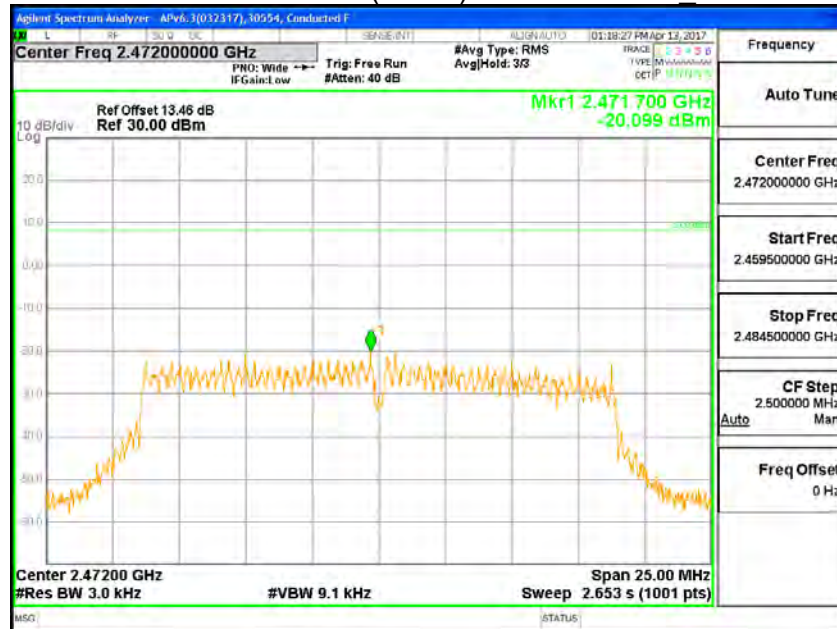




HT20 2.4GHz 2TX UAT 1+2(UAT 1) CDD CPD CH_13



HT20 2.4GHz 2TX UAT 1+2(LAT 3) CDD CPD CH_13



8.5.6. CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS

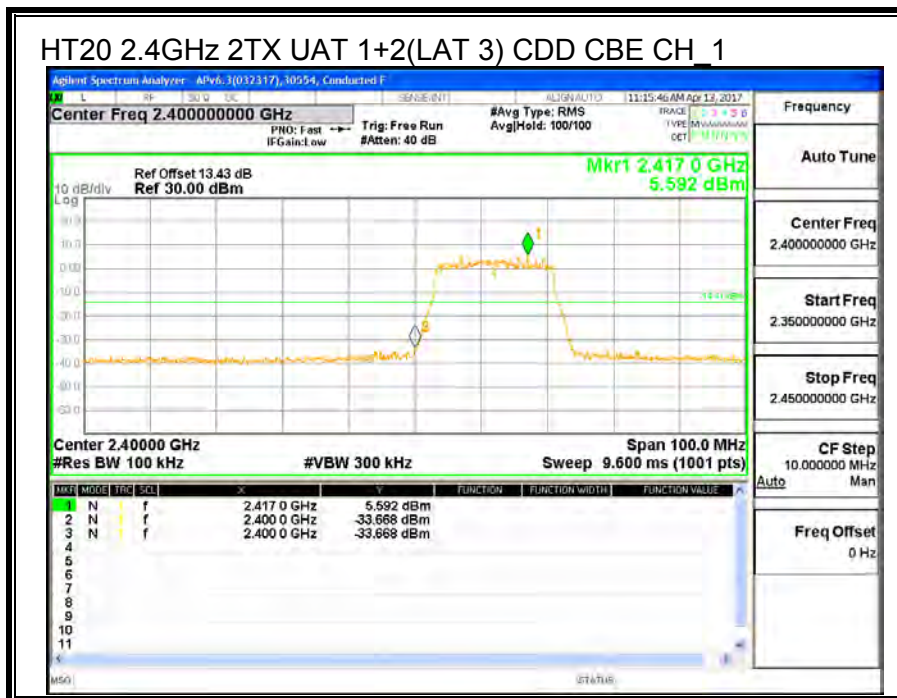
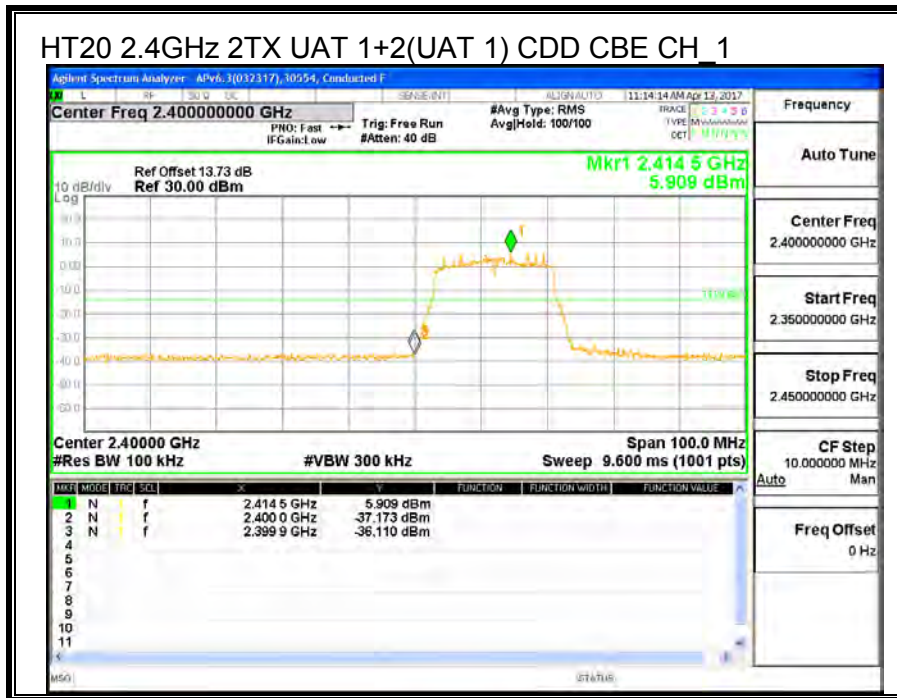
LIMITS

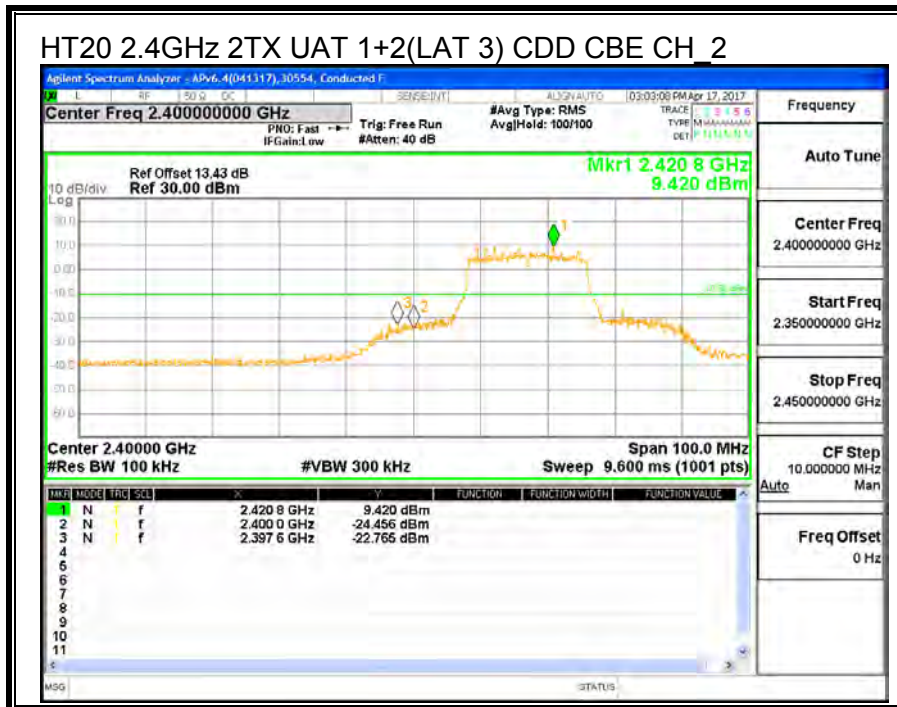
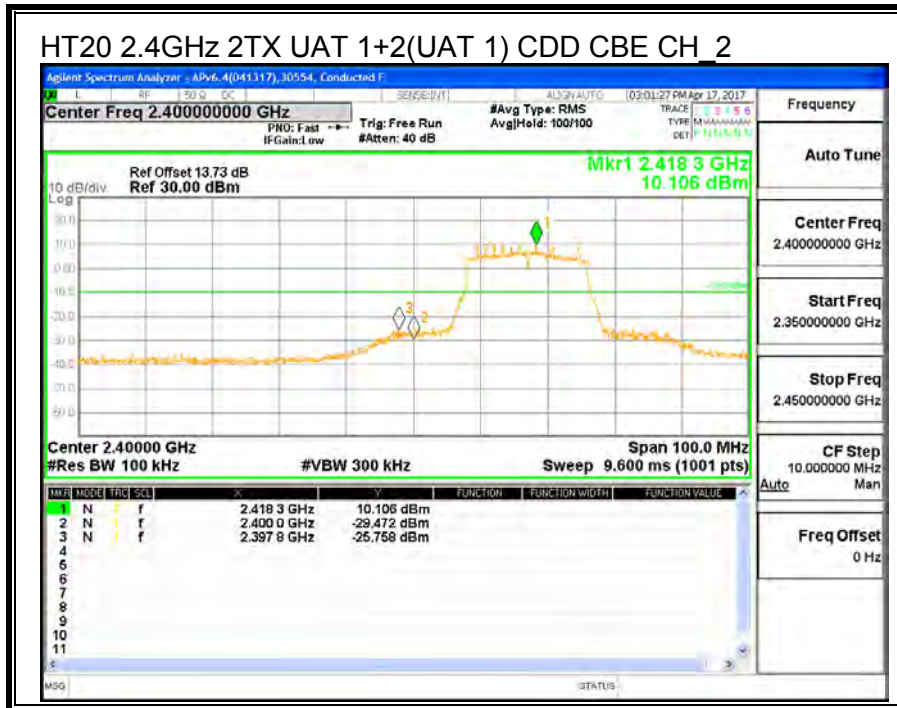
FCC §15.247 (d)

IC RSS-247 (5.5)

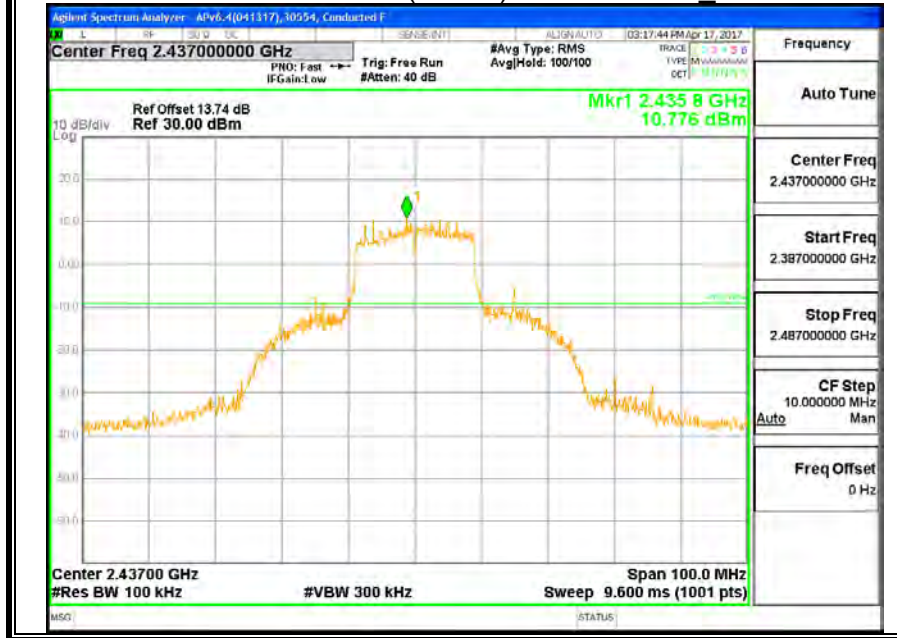
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS

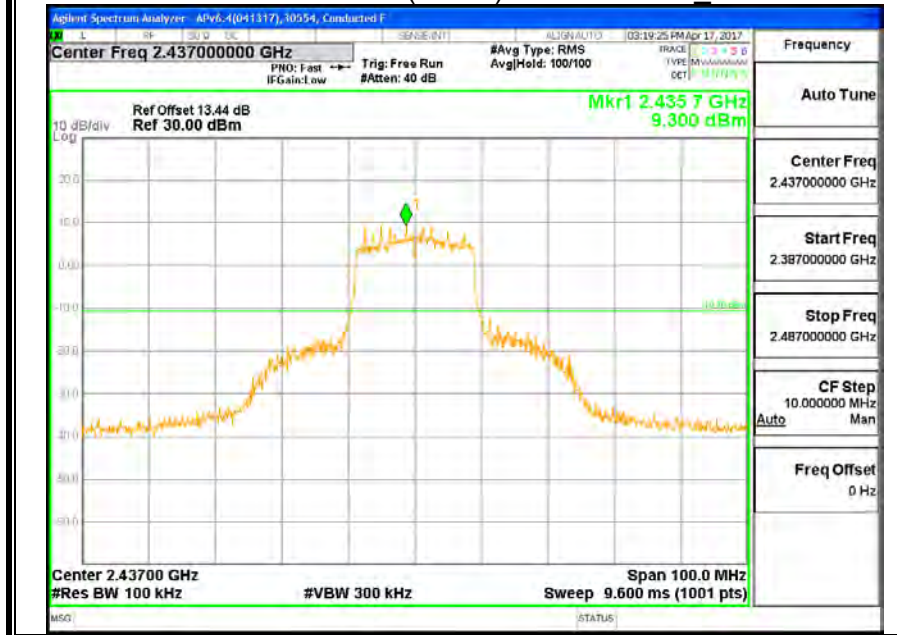


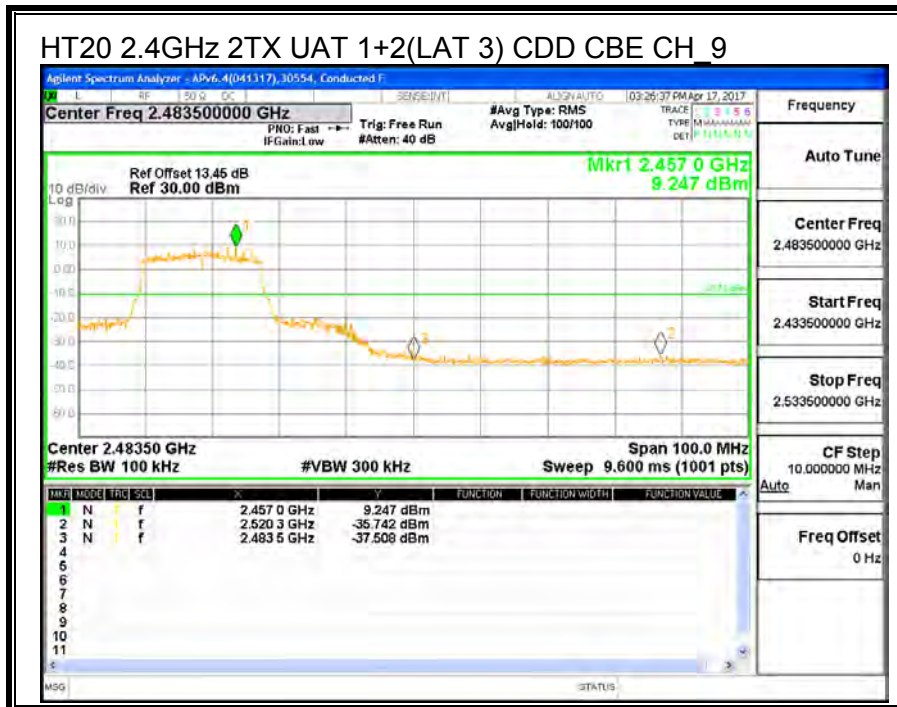
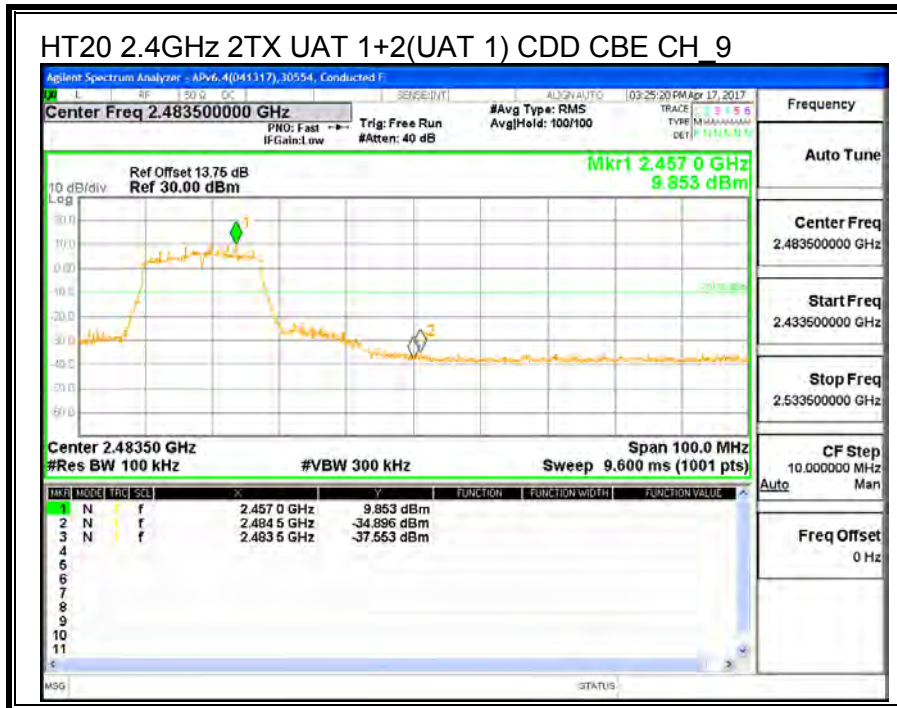


HT20 2.4GHz 2TX UAT 1+2(UAT 1) CDD CBE CH 6

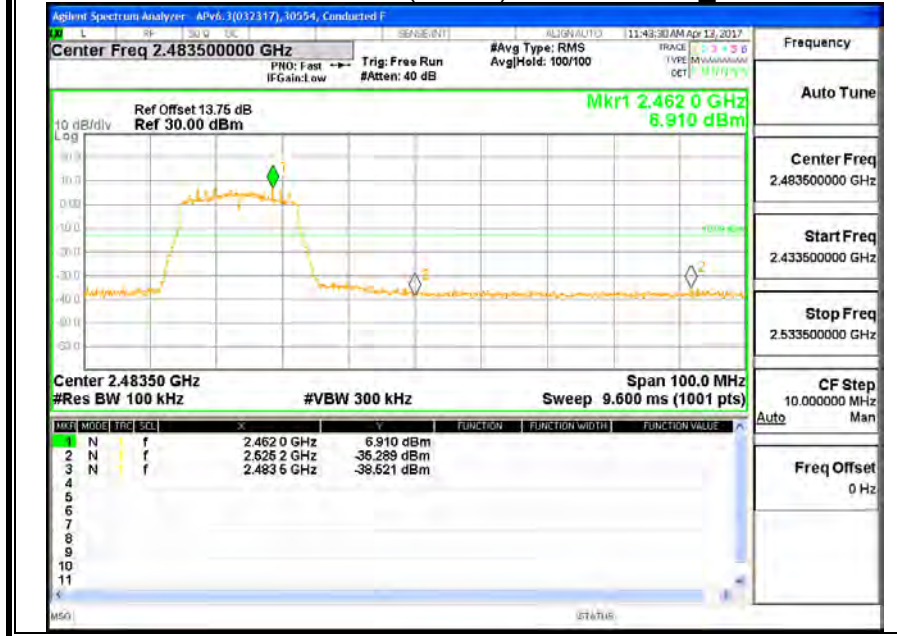


HT20 2.4GHz 2TX UAT 1+2(LAT 3) CDD CBE CH 6

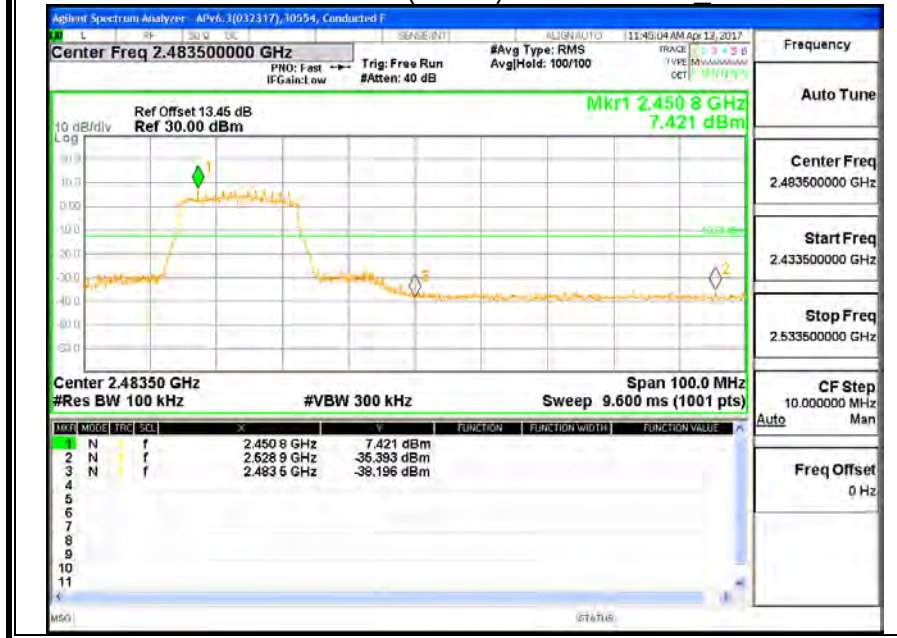




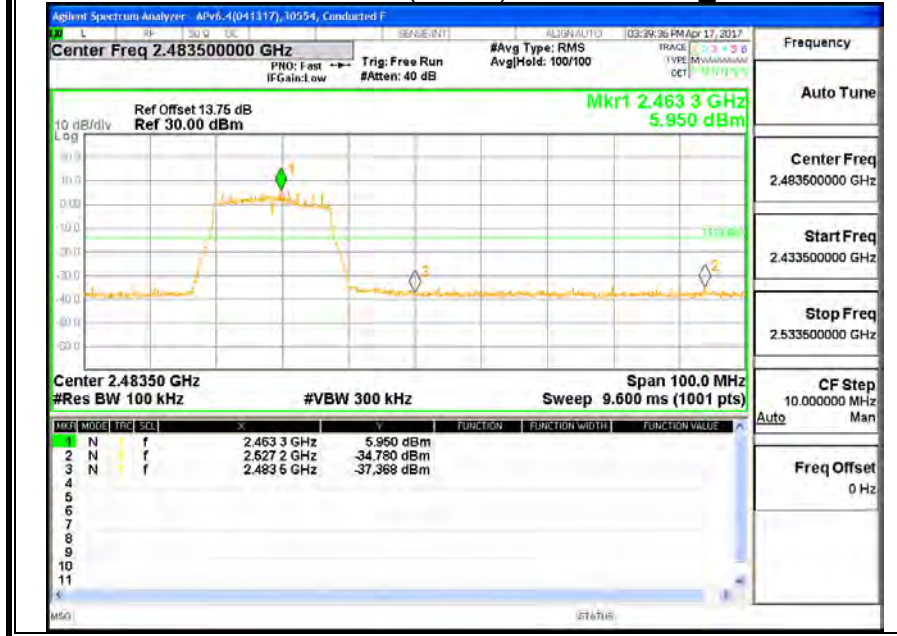
HT20 2.4GHz 2TX UAT 1+2(UAT 1) CDD CBE CH 10



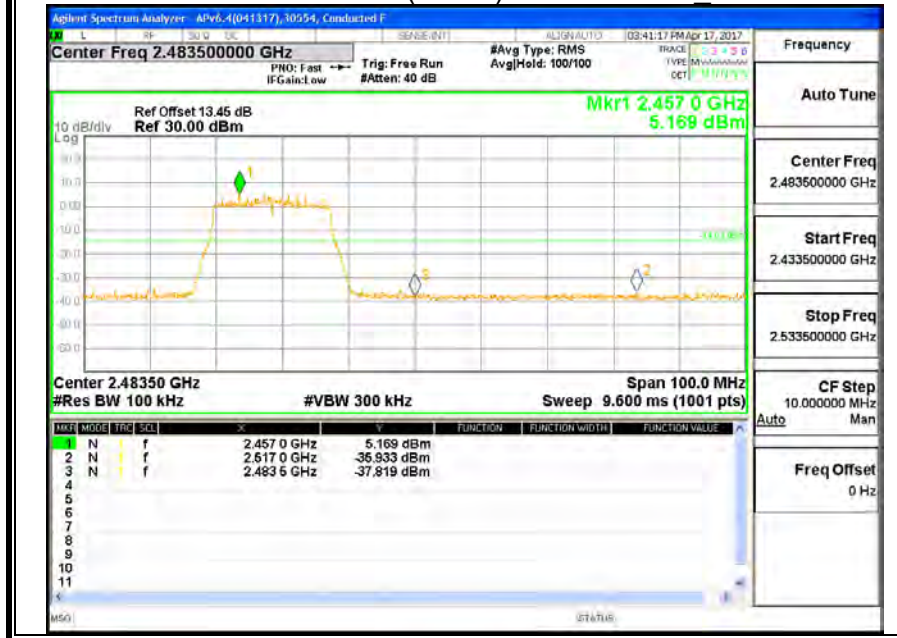
HT20 2.4GHz 2TX UAT 1+2(LAT 3) CDD CBE CH 10



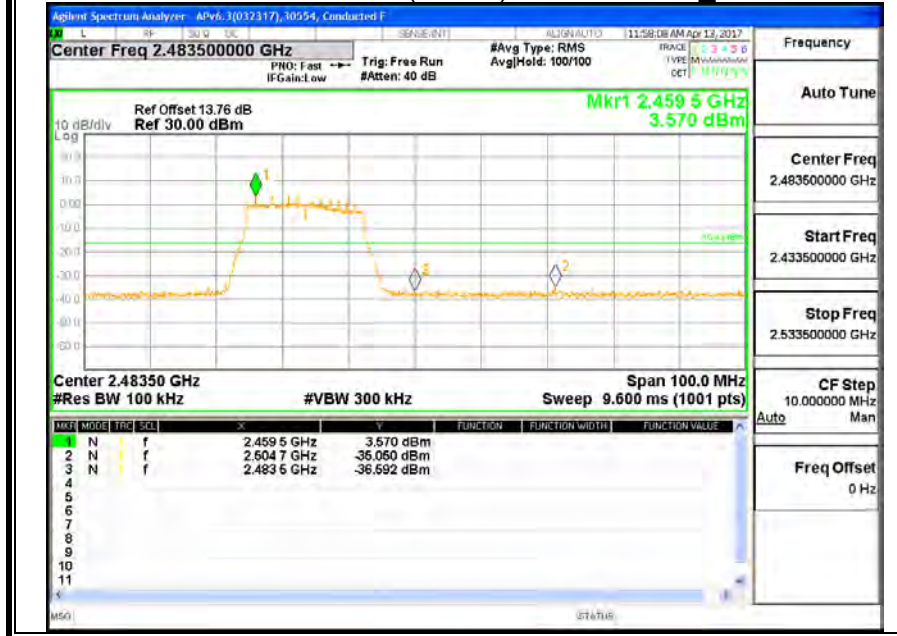
HT20 2.4GHz 2TX UAT 1+2(UAT 1) CDD CBE CH 11



HT20 2.4GHz 2TX UAT 1+2(LAT 3) CDD CBE CH 11



HT20 2.4GHz 2TX UAT 1+2(UAT 1) CDD CBE CH 12



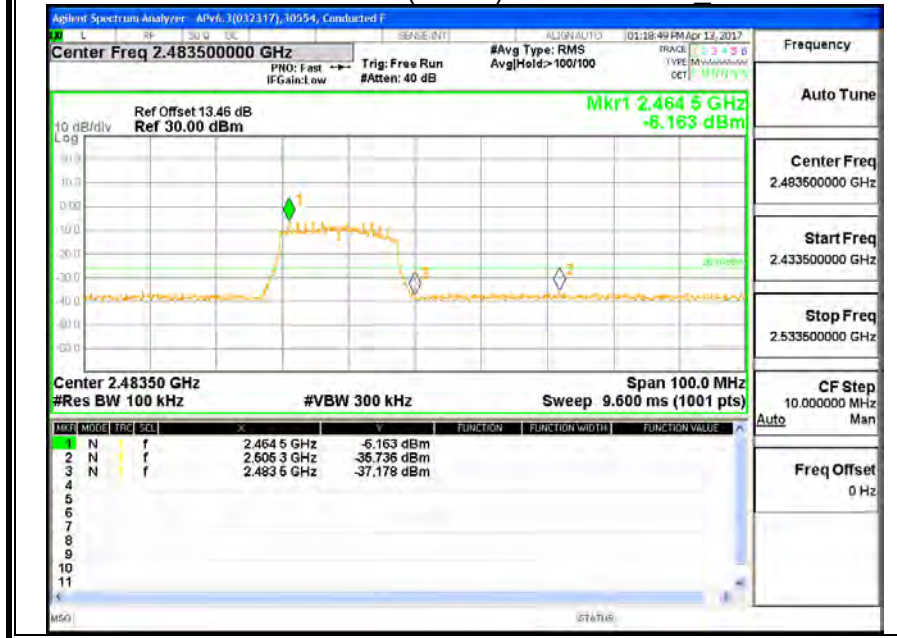
HT20 2.4GHz 2TX UAT 1+2(LAT 3) CDD CBE CH 12



HT20 2.4GHz 2TX UAT 1+2(UAT 1) CDD CBE CH 13



HT20 2.4GHz 2TX UAT 1+2(LAT 3) CDD CBE CH 13

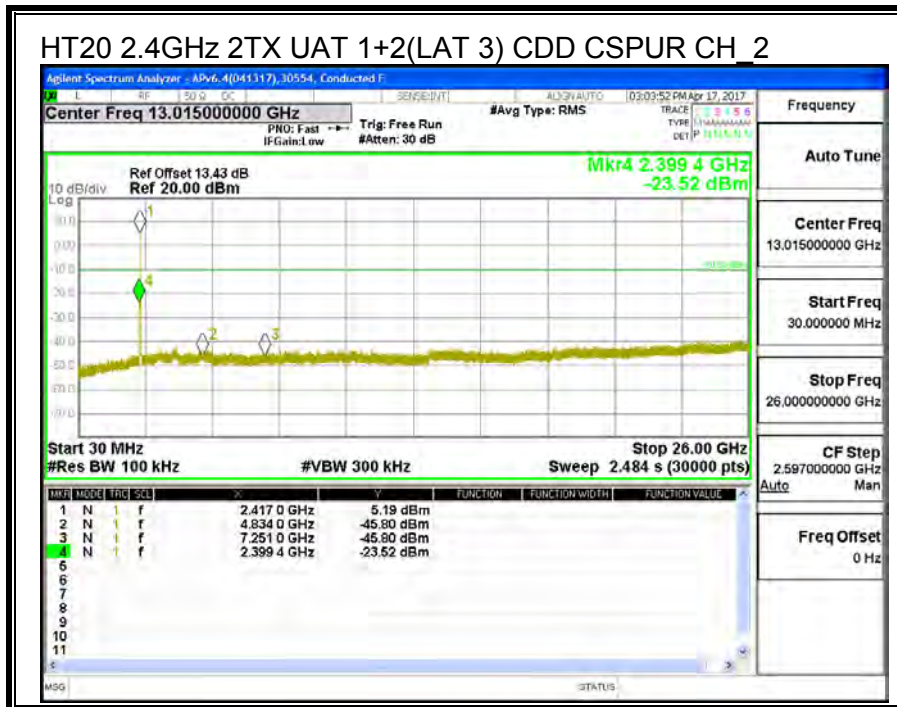
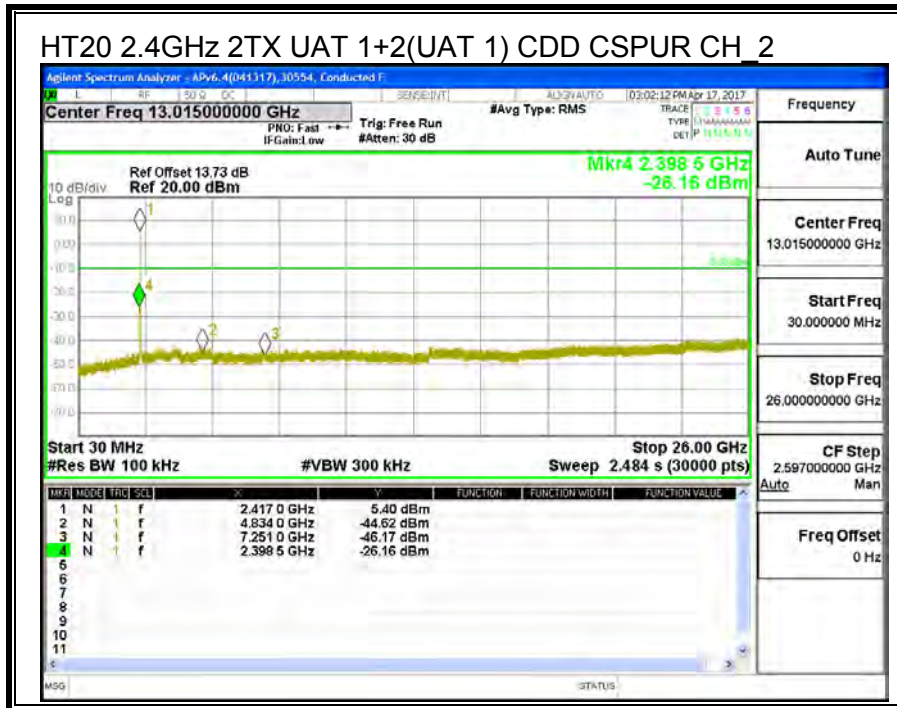


HT20 2.4GHz 2TX UAT 1+2(UAT 1) CDD CSPUR CH_1

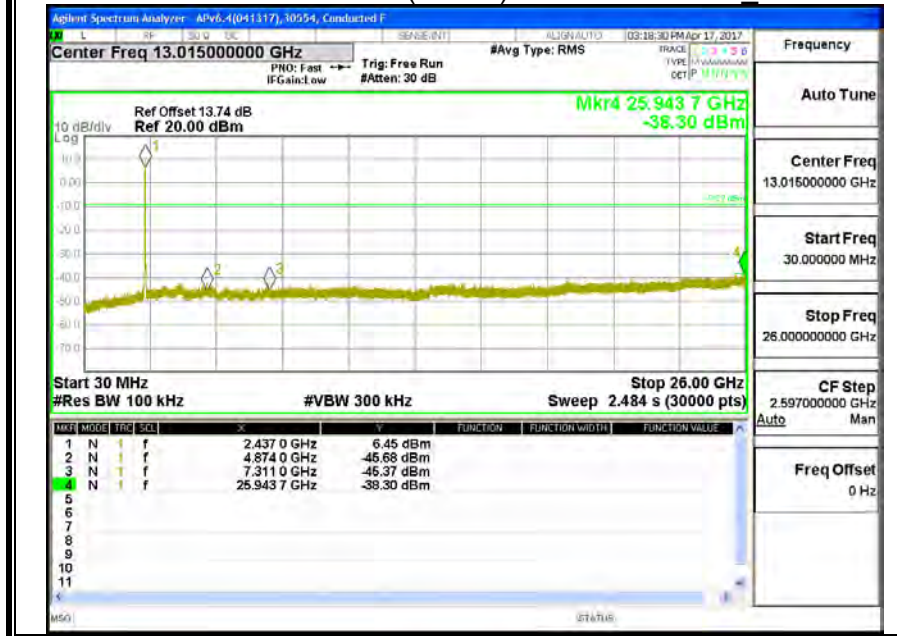


HT20 2.4GHz 2TX UAT 1+2(LAT 3) CDD CSPUR CH_1

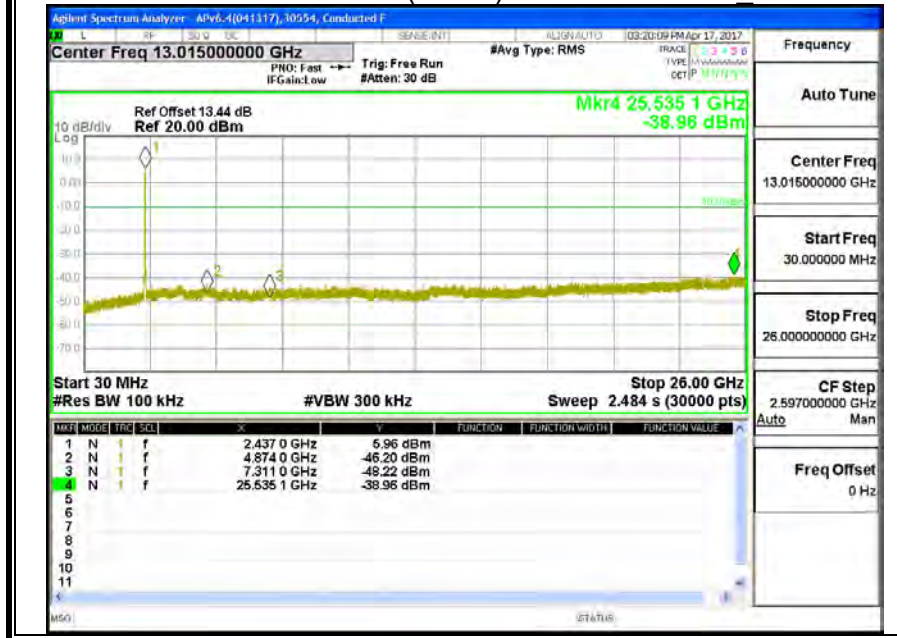


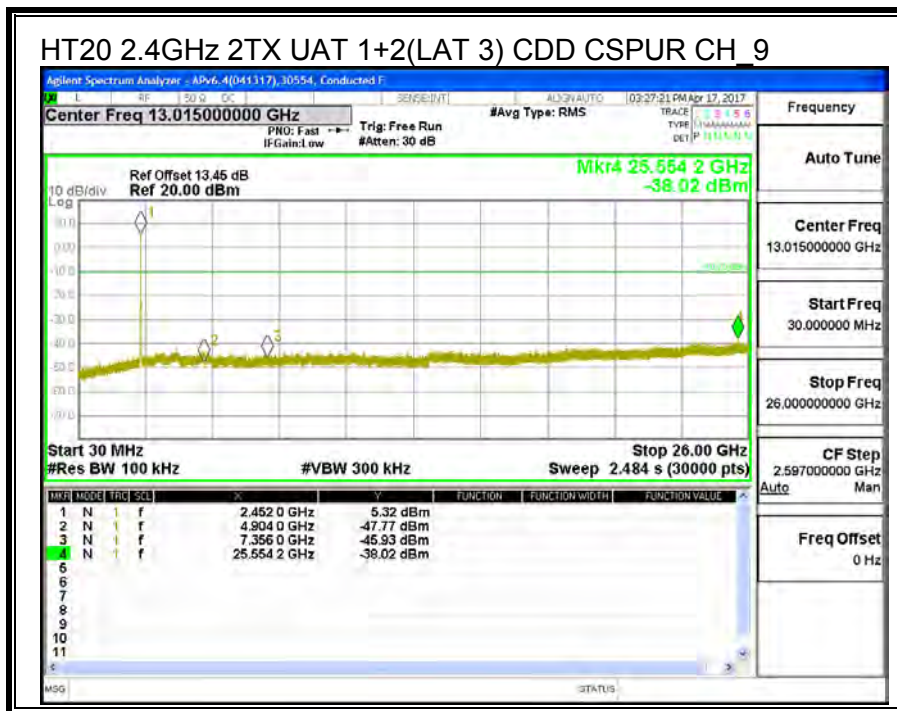
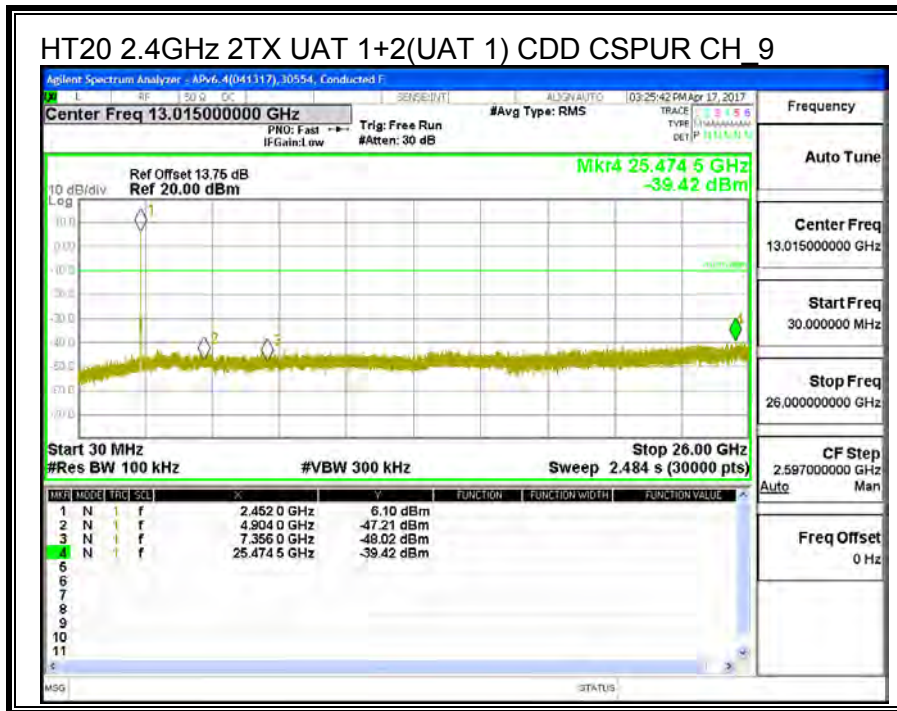


HT20 2.4GHz 2TX UAT 1+2(UAT 1) CDD CSPUR CH_6

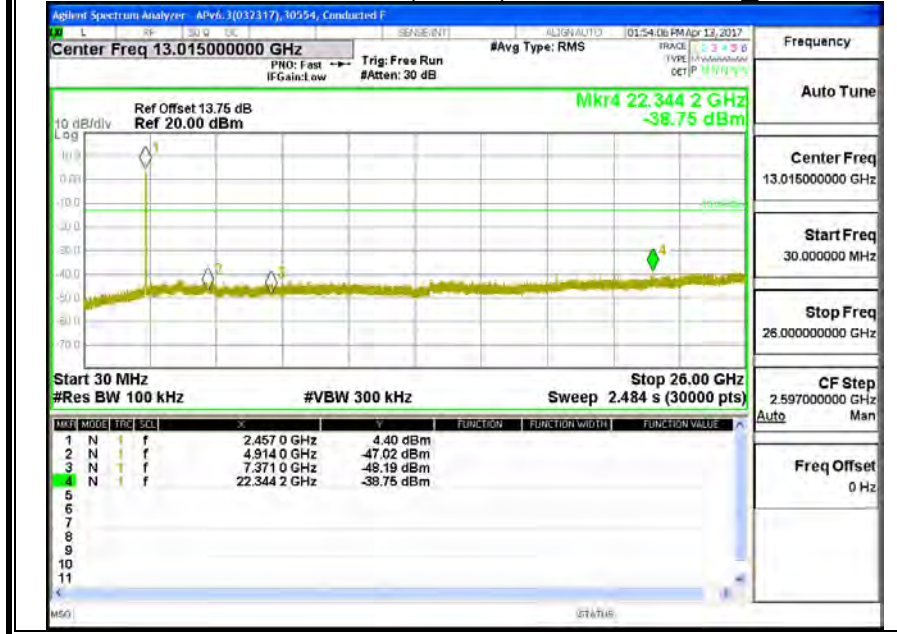


HT20 2.4GHz 2TX UAT 1+2(LAT 3) CDD CSPUR CH_6



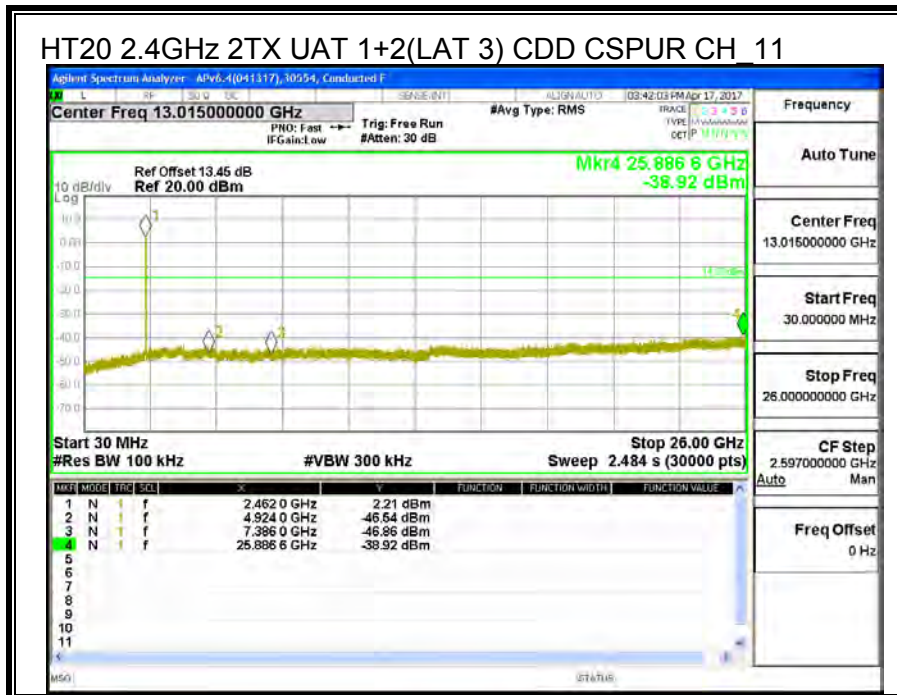
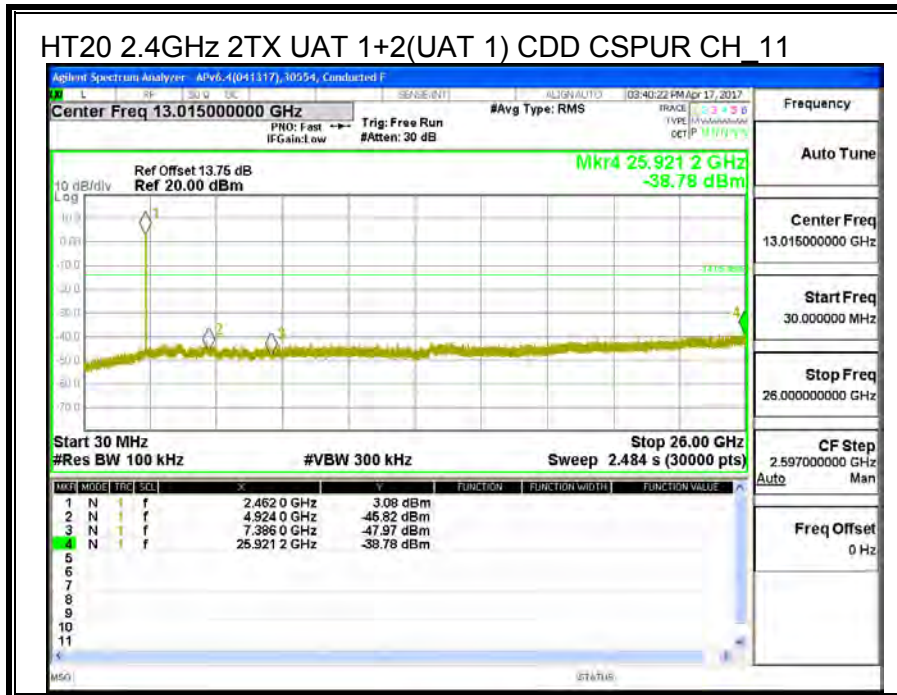


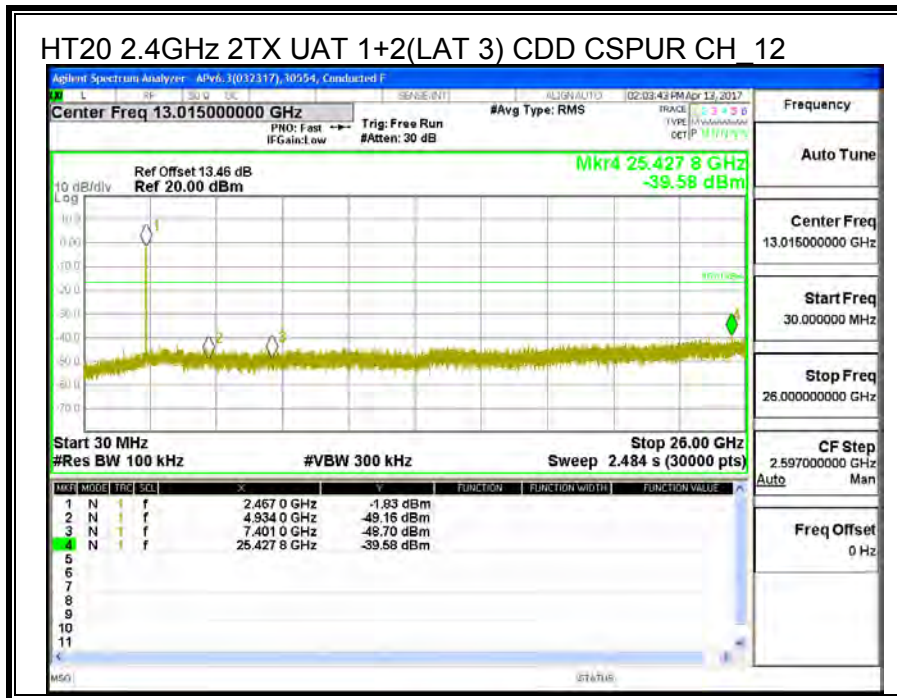
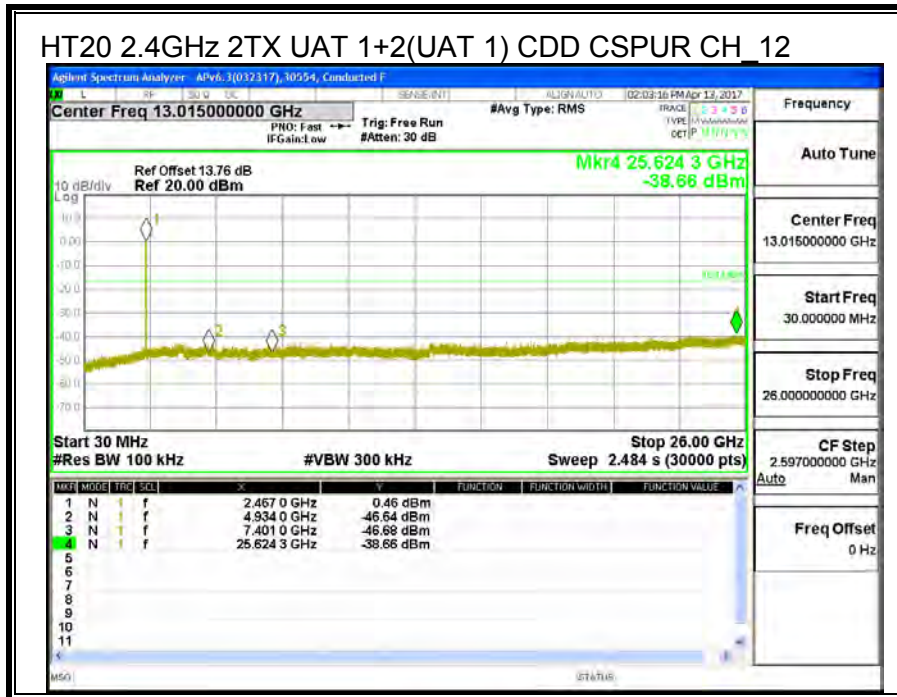
HT20 2.4GHz 2TX UAT 1+2(UAT 1) CDD CSPUR CH_10



HT20 2.4GHz 2TX UAT 1+2(LAT 3) CDD CSPUR CH_10







HT20 2.4GHz 2TX UAT 1+2(UAT 1) CDD CSPUR CH_13



HT20 2.4GHz 2TX UAT 1+2(LAT 3) CDD CSPUR CH_13



9. RADIATED TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-GEN, Section 8.8

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.

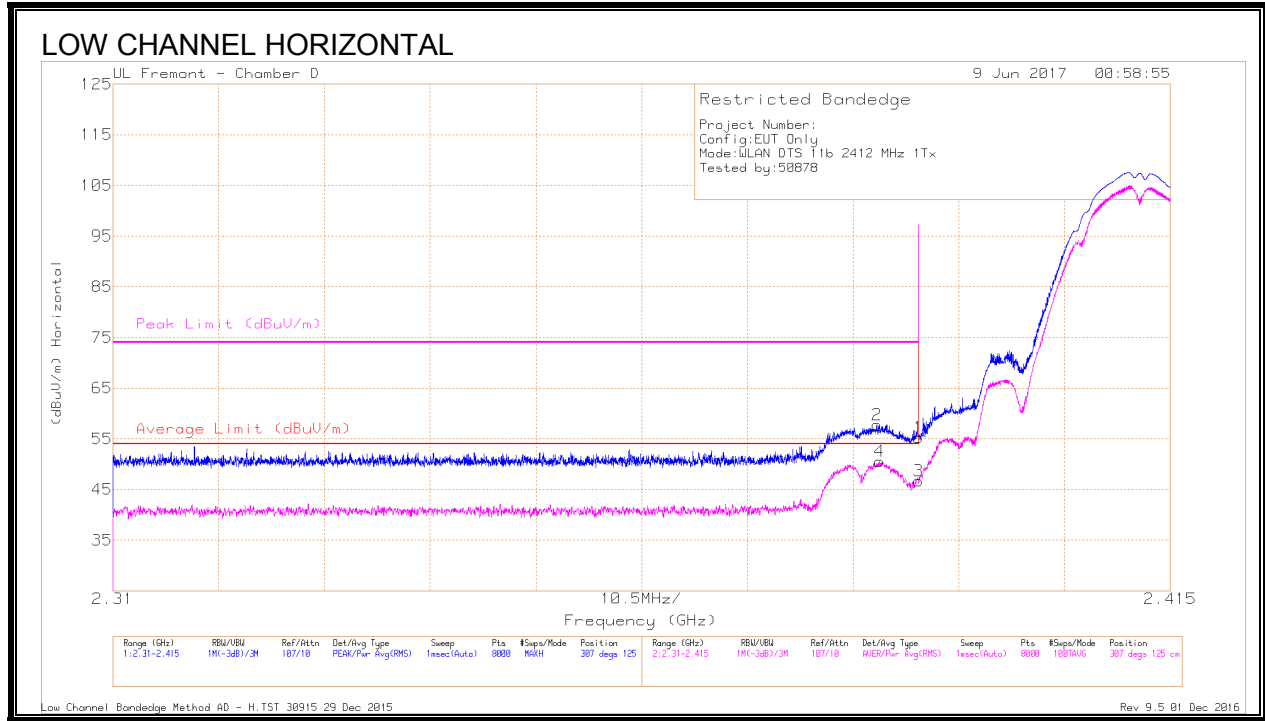
For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

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)

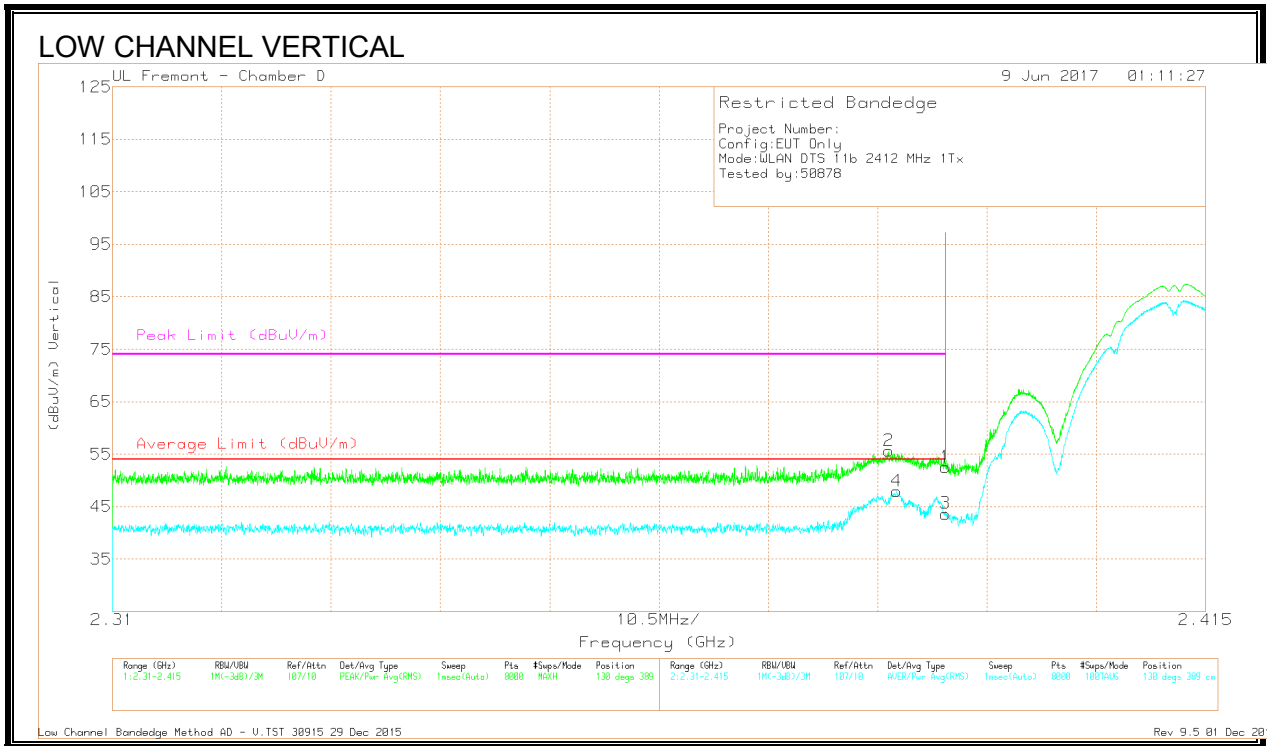


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.386	46.45	Pk	32.1	-20.8	57.75	-	-	74	-16.25	307	125	H
4	* 2.386	39.24	RMS	32.1	-20.8	50.54	54	-3.46	-	-	307	125	H
1	* 2.39	43.88	Pk	32.1	-20.7	55.28	-	-	74	-18.72	307	125	H
3	* 2.39	35.27	RMS	32.1	-20.7	46.67	54	-7.33	-	-	307	125	H

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

Pk - Peak detector

RMS - RMS detection



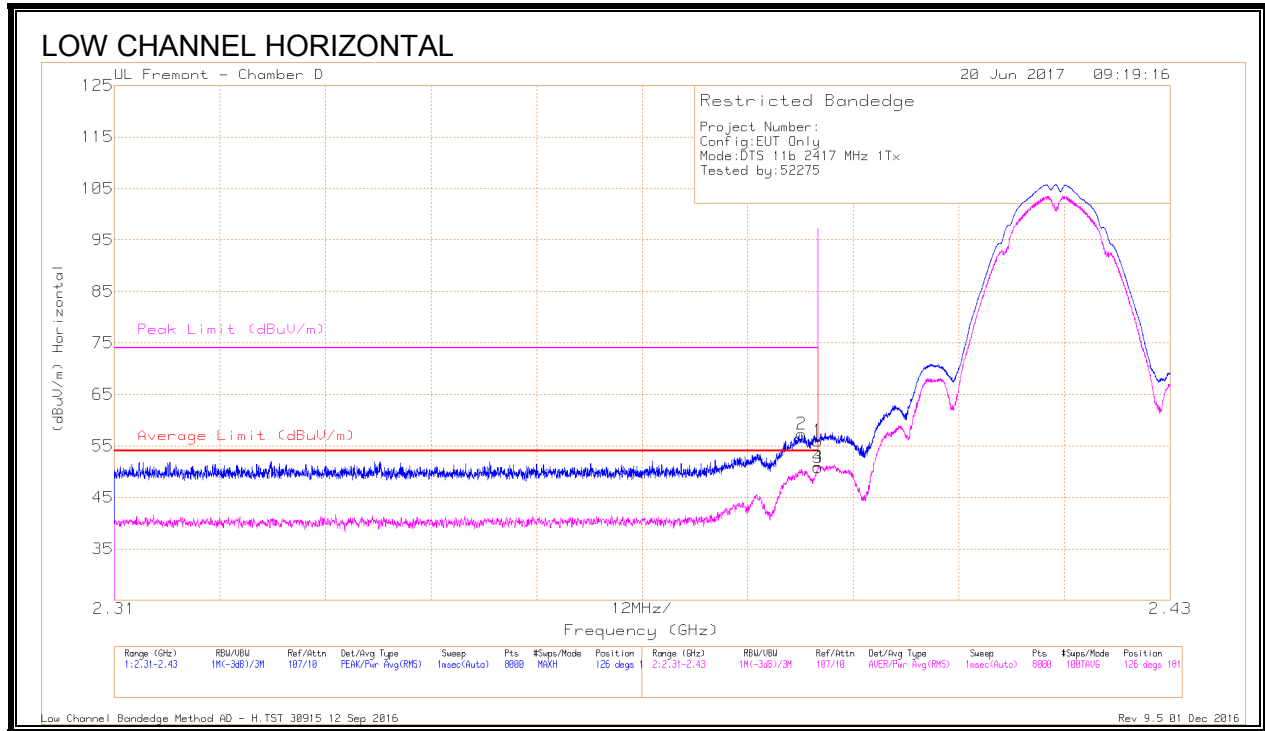
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.385	44.28	Pk	32.1	-20.8	55.58	-	-	74	-18.42	130	389	V
4	* 2.385	36.63	RMS	32.1	-20.8	47.93	54	-6.07	-	-	130	389	V
1	* 2.39	41.16	Pk	32.1	-20.7	52.56	-	-	74	-21.44	130	389	V
3	* 2.39	32.25	RMS	32.1	-20.7	43.65	54	-10.35	-	-	130	389	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (LOW CHANNEL, CH 2)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (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	* 2.39	44.89	Pk	31.8	-20.7	55.99	-	-	74	-18.01	126	181	H
2	* 2.388	46.34	Pk	31.8	-20.8	57.34	-	-	74	-16.66	126	181	H
3	* 2.39	39.76	RMS	31.8	-20.7	50.86	54	-3.14	-	-	126	181	H
4	* 2.39	39.79	RMS	31.8	-20.7	50.89	54	-3.11	-	-	126	181	H

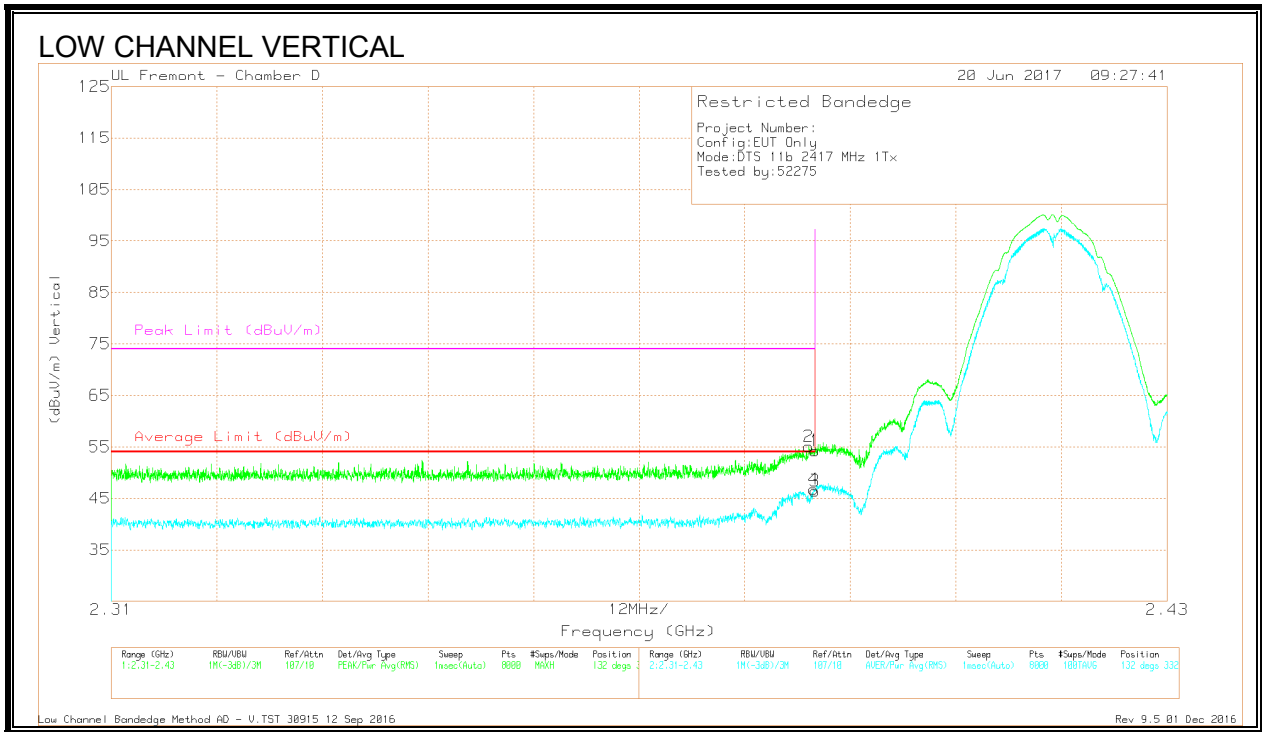
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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 T862 (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	* 2.39	43.15	Pk	31.8	-20.7	54.25	-	-	74	-19.75	132	332	V
2	* 2.389	44.1	Pk	31.8	-20.8	55.1	-	-	74	-18.9	132	332	V
3	* 2.39	35.34	RMS	31.8	-20.7	46.44	54	-7.56	-	-	132	332	V
4	* 2.39	35.67	RMS	31.8	-20.7	46.77	54	-7.23	-	-	132	332	V

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

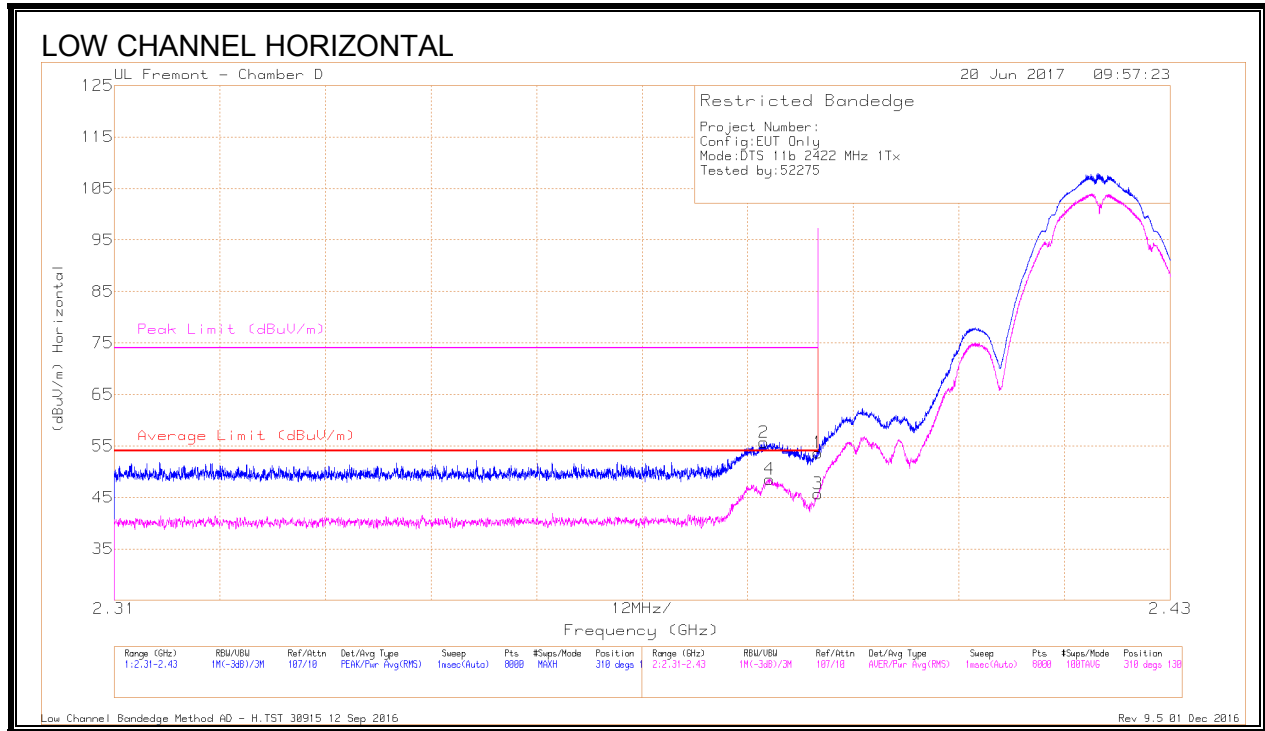
Pk - Peak detector

RMS - RMS detection

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

Rev 9.5 01 Dec 2016

AUTHORIZED BANDEDGE (LOW CHANNEL, CH 3)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
1	* 2.39	42.57	Pk	31.8	-20.7	53.67	-	-	74	-20.33	310	130	H
2	* 2.384	44.71	Pk	31.8	-20.8	55.71	-	-	74	-18.29	310	130	H
3	* 2.39	34.63	RMS	31.8	-20.7	45.73	54	-8.27	-	-	310	130	H
4	* 2.384	37.54	RMS	31.8	-20.8	48.54	54	-5.46	-	-	310	130	H

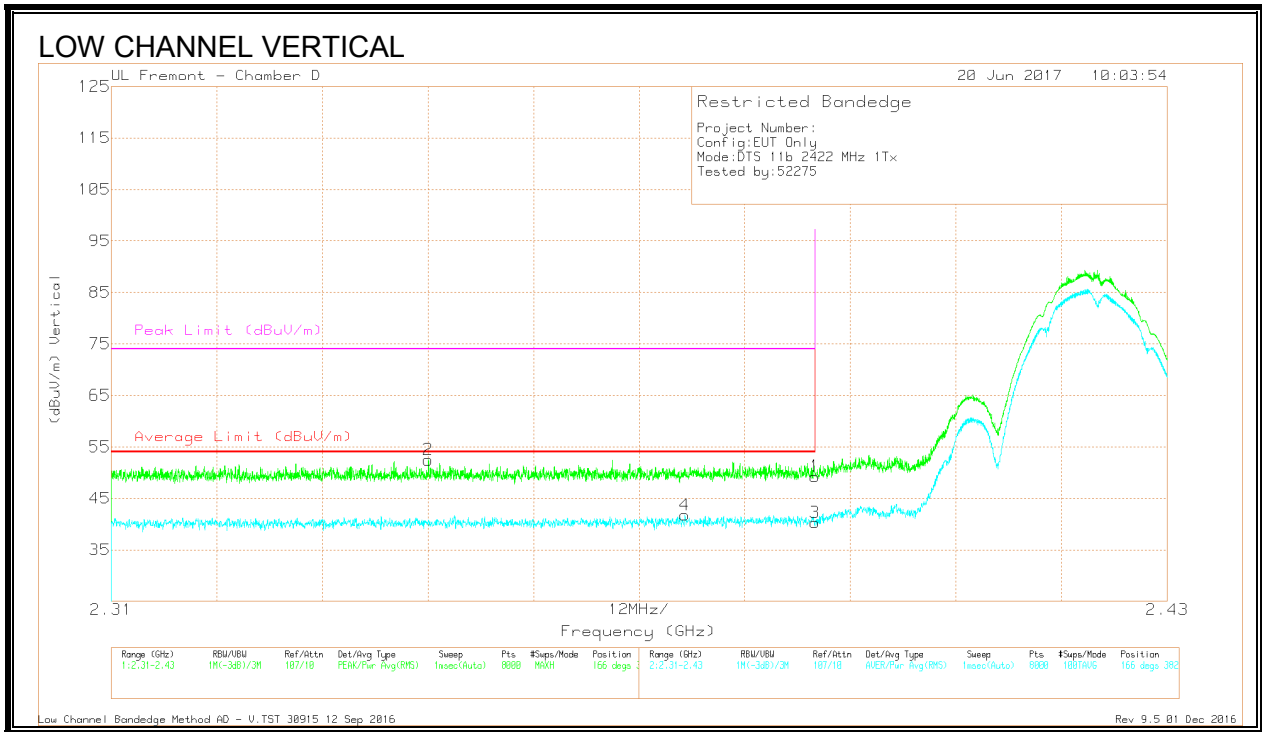
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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 T862 (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	38.17	Pk	31.8	-20.7	49.27	-	-	74	-24.73	166	382	V
2	* 2.346	41.79	Pk	31.6	-20.9	52.49	-	-	74	-21.51	166	382	V
3	* 2.39	29.21	RMS	31.8	-20.7	40.31	54	-13.69	-	-	166	382	V
4	* 2.375	30.85	RMS	31.7	-20.8	41.75	54	-12.25	-	-	166	382	V

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

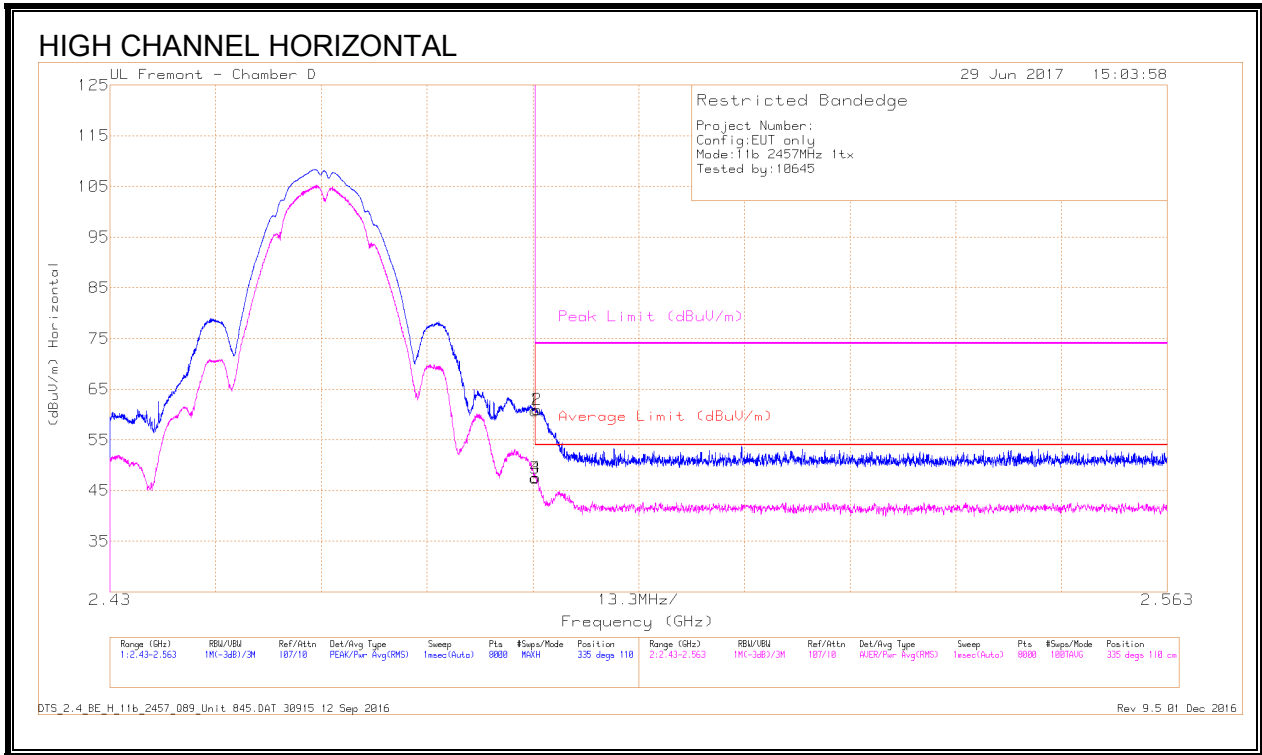
Pk - Peak detector

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 10)

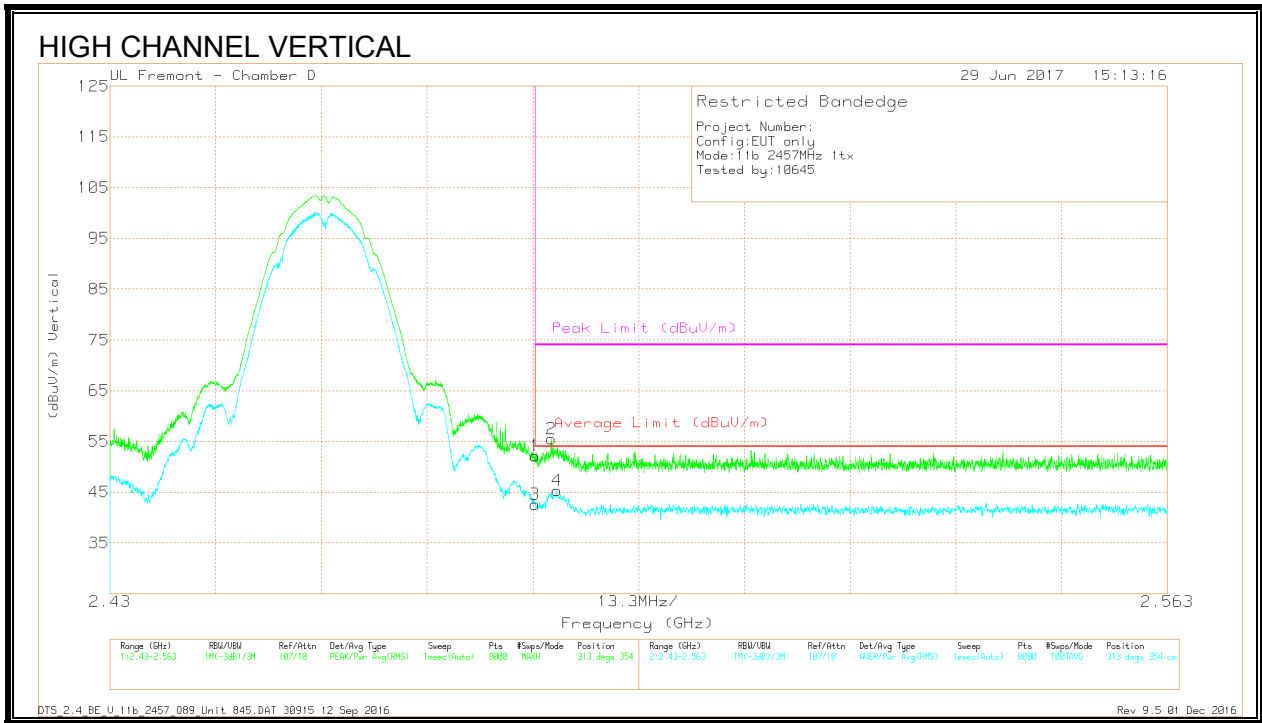


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	49.08	Pk	32.5	-20.8	60.78	-	-	74	-13.22	335	110	H
2	* 2.484	49.32	Pk	32.5	-20.8	61.02	-	-	74	-12.98	335	110	H
3	* 2.484	35.79	RMS	32.5	-20.8	47.49	54	-6.51	-	-	335	110	H
4	* 2.484	35.9	RMS	32.5	-20.8	47.6	54	-6.4	-	-	335	110	H

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

Pk - Peak detector

RMS - RMS detection



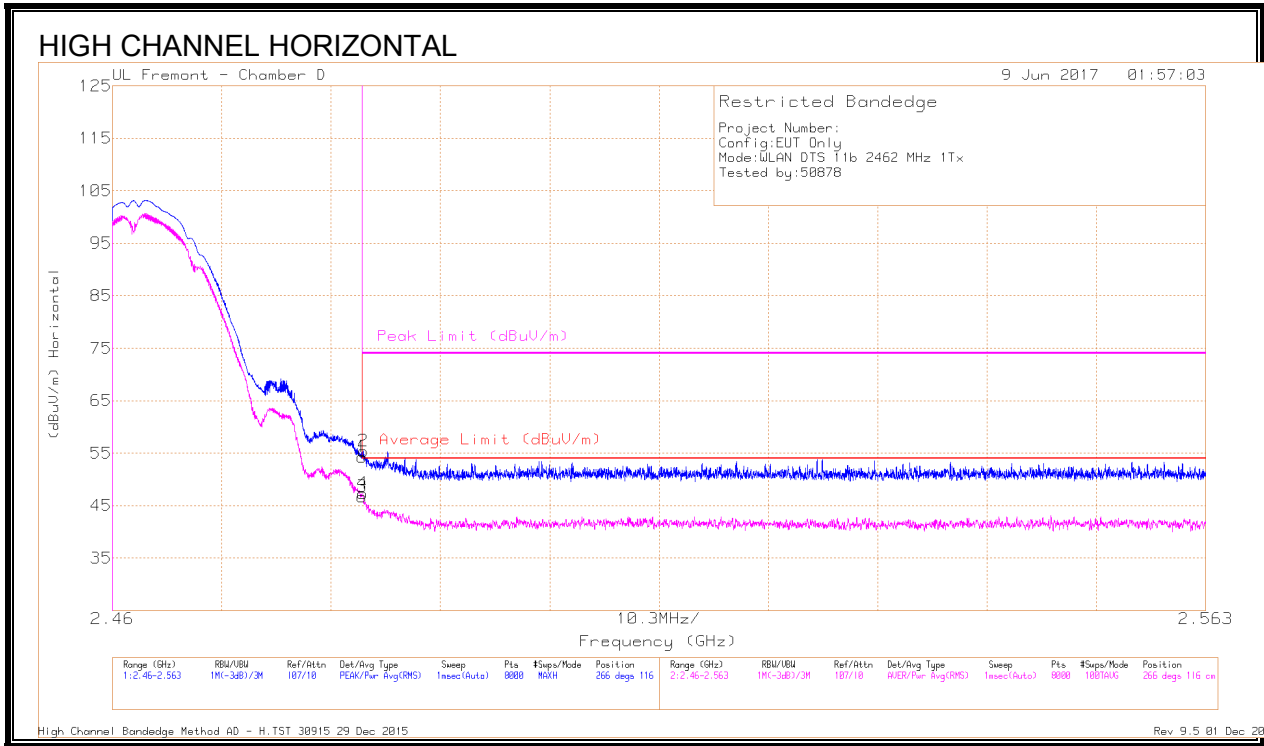
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
1	* 2.484	40.44	Pk	32.5	-20.8	52.14	-	-	74	-21.86	313	354	V
2	* 2.486	43.69	Pk	32.6	-20.8	55.49	-	-	74	-18.51	313	354	V
3	* 2.484	30.95	RMS	32.5	-20.8	42.65	54	-11.35	-	-	313	354	V
4	* 2.486	33.47	RMS	32.6	-20.8	45.27	54	-8.73	-	-	313	354	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 11)

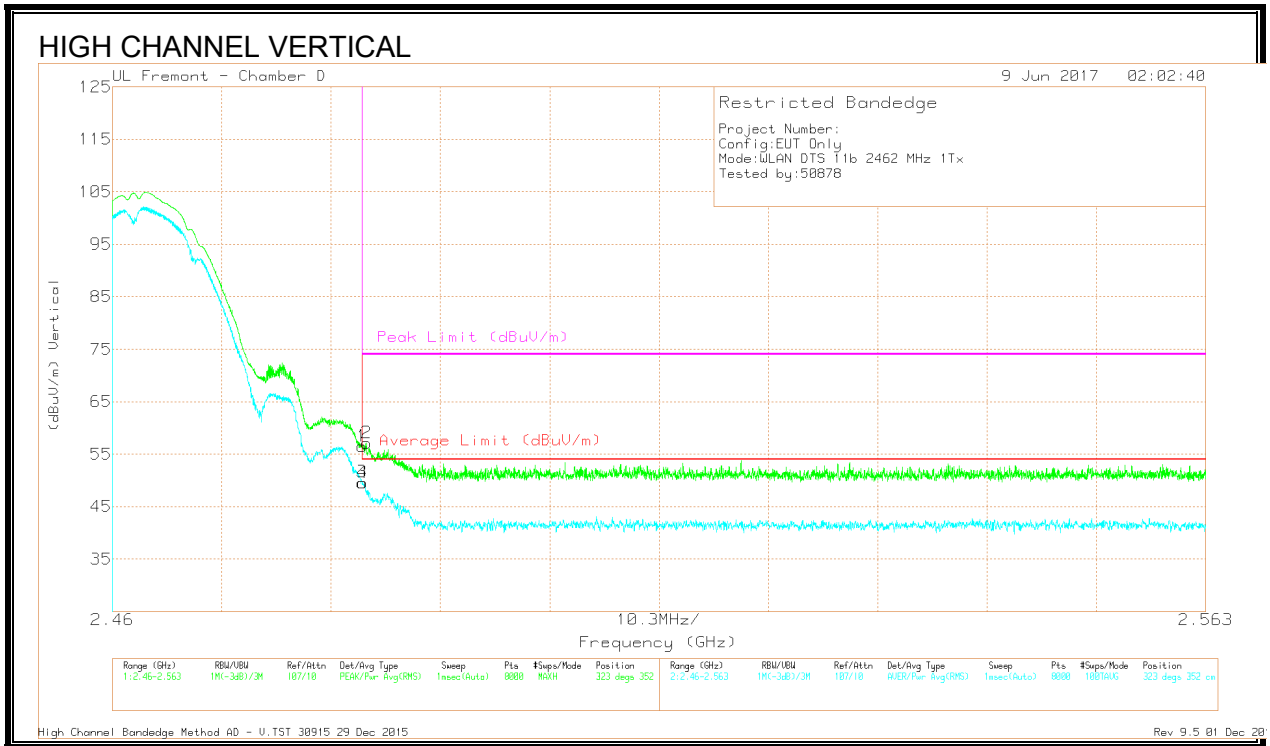


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.57	Pk	32.5	-20.8	54.27	-	-	74	-19.73	266	116	H
2	* 2.484	43.63	Pk	32.5	-20.8	55.33	-	-	74	-18.67	266	116	H
3	* 2.484	35	RMS	32.5	-20.8	46.7	54	-7.3	-	-	266	116	H
4	* 2.484	35.6	RMS	32.5	-20.8	47.3	54	-6.7	-	-	266	116	H

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

Pk - Peak detector

RMS - RMS detection



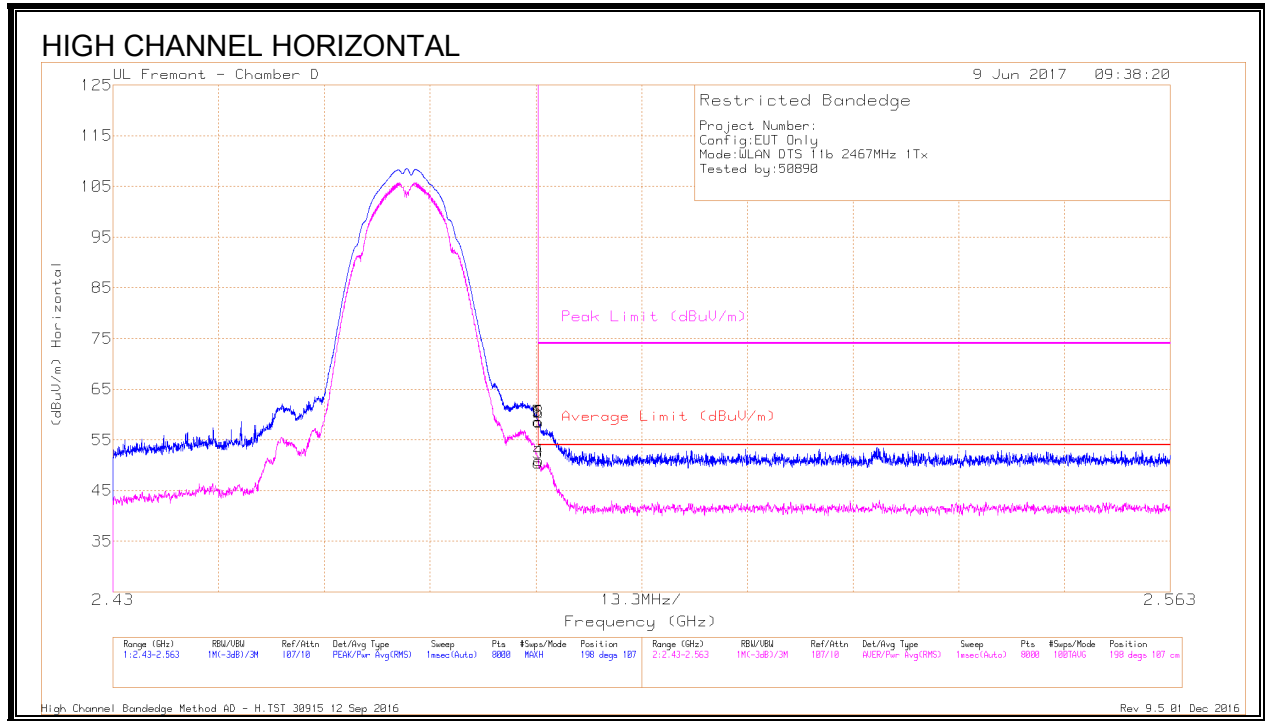
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	44.78	Pk	32.5	-20.8	56.48	-	-	74	-17.52	323	352	V
2	* 2.484	45.42	Pk	32.5	-20.8	57.12	-	-	74	-16.88	323	352	V
3	* 2.484	37.91	RMS	32.5	-20.8	49.61	54	-4.39	-	-	323	352	V
4	* 2.484	37.84	RMS	32.5	-20.8	49.54	54	-4.46	-	-	323	352	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 12)

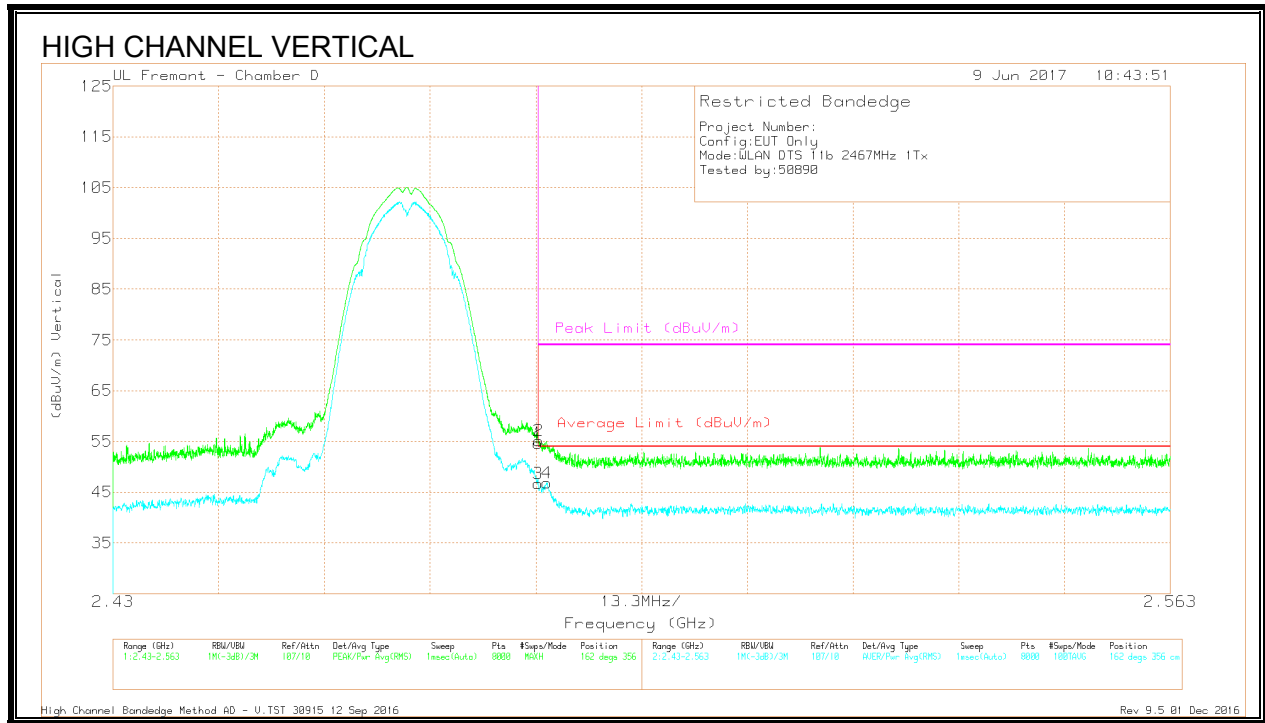


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
1	* 2.484	46.94	Pk	32.5	-20.8	58.64	-	-	74	-15.36	198	107	H
2	* 2.484	46.77	Pk	32.5	-20.8	58.47	-	-	74	-15.53	198	107	H
3	* 2.484	38.72	RMS	32.5	-20.8	50.42	54	-3.58	-	-	198	107	H
4	* 2.484	39.17	RMS	32.5	-20.8	50.87	54	-3.13	-	-	198	107	H

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

Pk - Peak detector

RMS - RMS detection



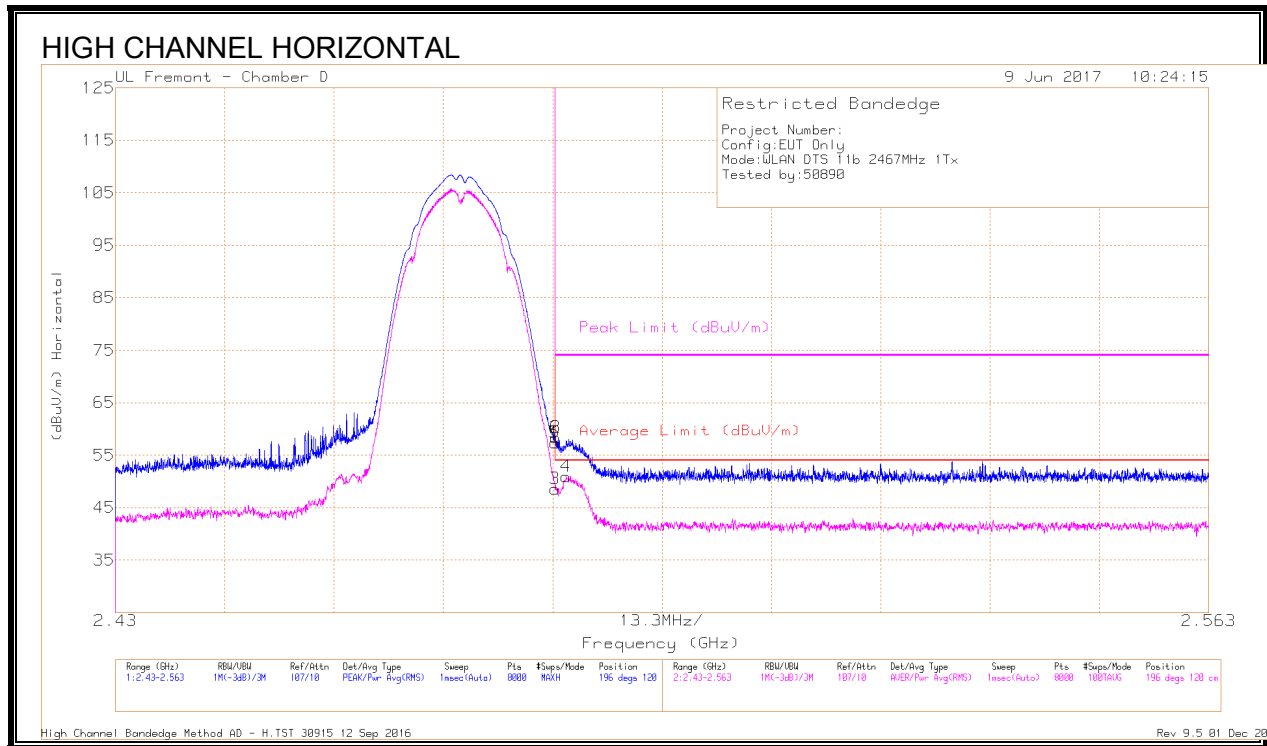
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.98	Pk	32.5	-20.8	54.68	-	-	74	-19.32	162	356	V
2	* 2.484	43.49	Pk	32.5	-20.8	55.19	-	-	74	-18.81	162	356	V
3	* 2.484	35.04	RMS	32.5	-20.8	46.74	54	-7.26	-	-	162	356	V
4	* 2.485	35.15	RMS	32.5	-20.8	46.85	54	-7.15	-	-	162	356	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 13)

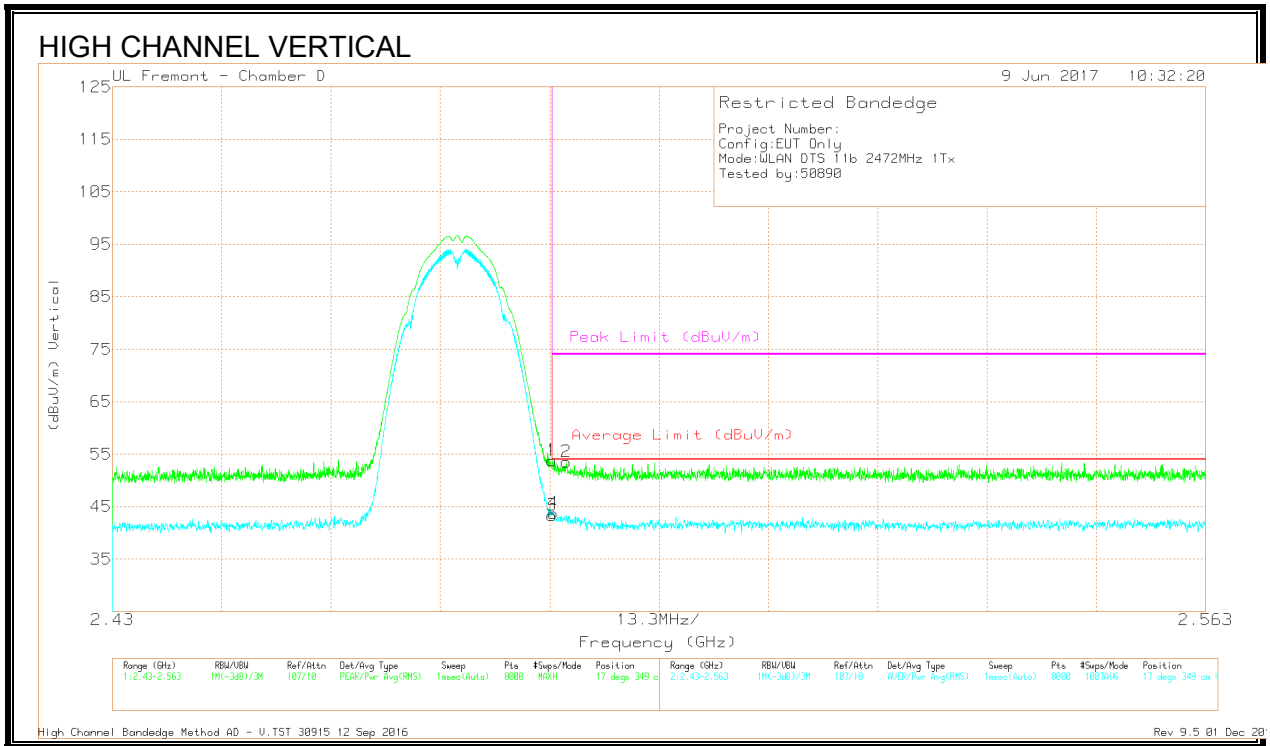


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	45.65	Pk	32.5	-20.8	57.35	-	-	74	-16.65	196	120	H
2	* 2.484	46.62	Pk	32.5	-20.8	58.32	-	-	74	-15.68	196	120	H
3	* 2.484	36.9	RMS	32.5	-20.8	48.6	54	-5.4	-	-	196	120	H
4	* 2.485	39.21	RMS	32.5	-20.8	50.91	54	-3.09	-	-	196	120	H

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

Pk - Peak detector

RMS - RMS detection



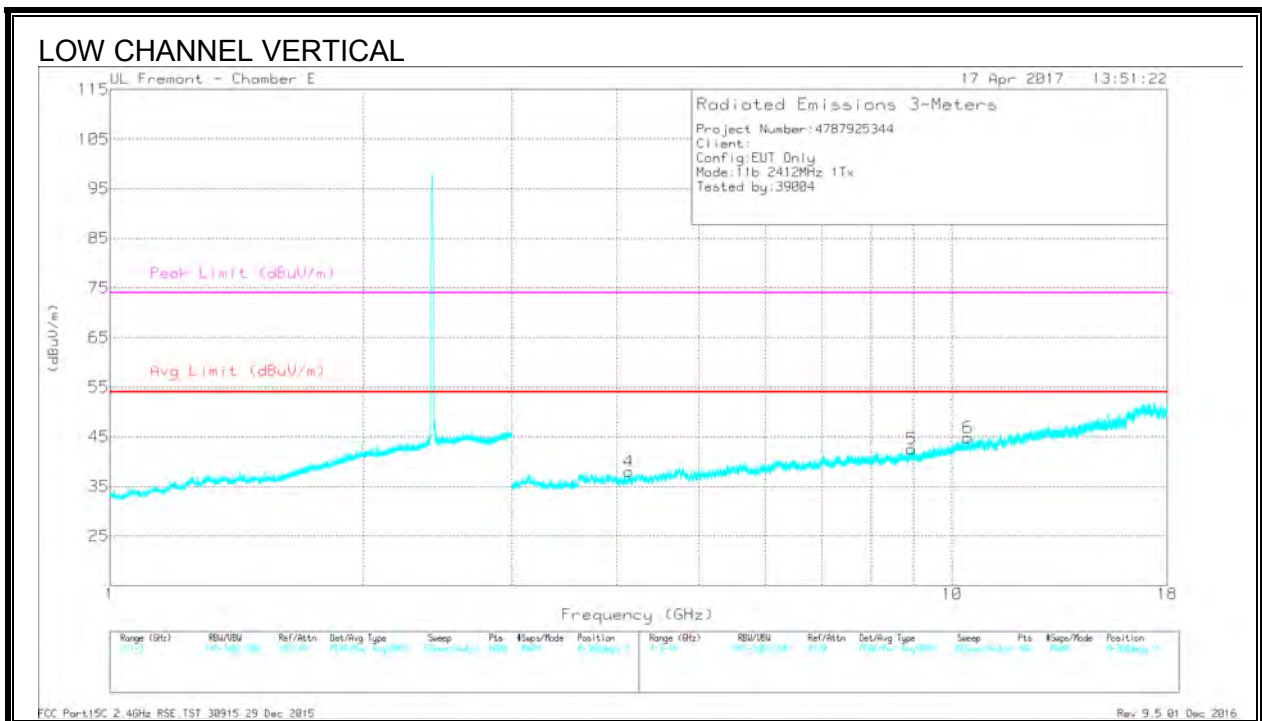
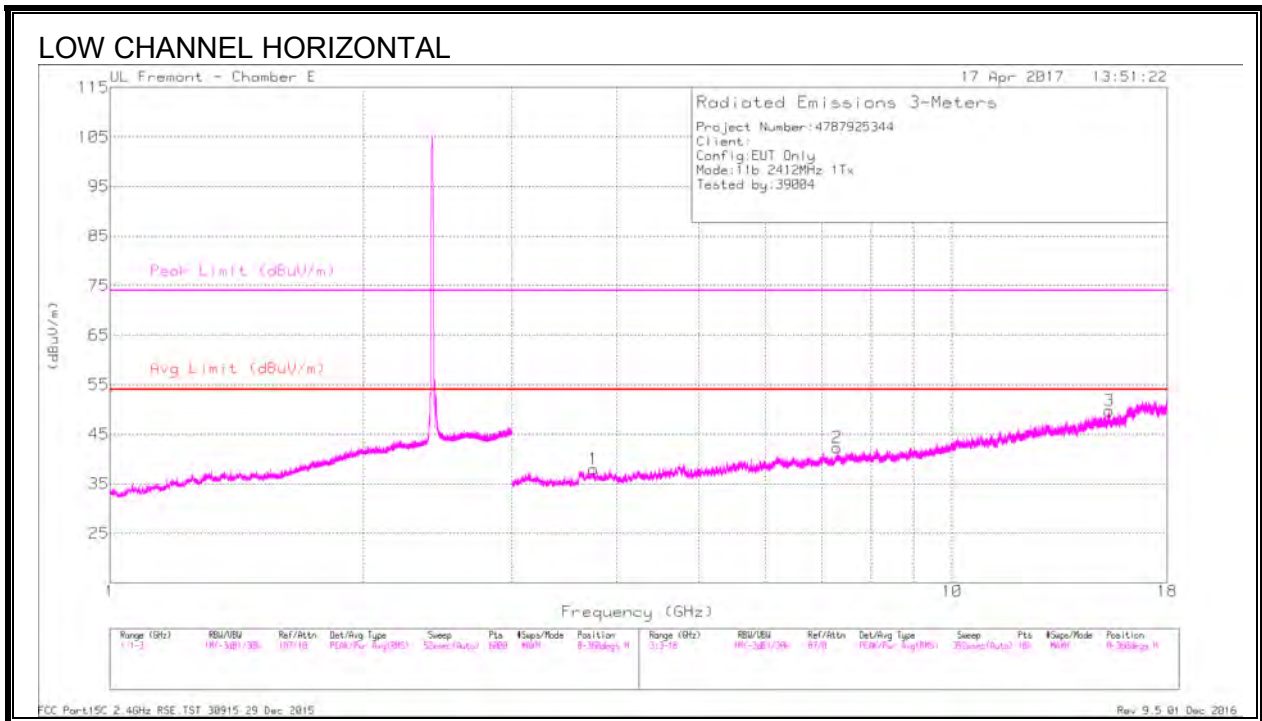
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.02	Pk	32.5	-20.8	53.72	-	-	74	-20.28	17	349	V
3	* 2.484	31.69	RMS	32.5	-20.8	43.39	54	-10.61	-	-	17	349	V
4	* 2.484	32.06	RMS	32.5	-20.8	43.76	54	-10.24	-	-	17	349	V
2	* 2.485	41.87	Pk	32.5	-20.8	53.57	-	-	74	-20.43	17	349	V

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

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL, CH 1)



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 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	* 3.748	41.17	PK2	33.4	-29.8	44.77	-	-	74	-29.23	10	210	H
	* 3.75	29.53	MAv1	33.4	-29.8	33.13	54	-20.87	-	-	10	210	H
2	* 7.295	39.01	PK2	35.9	-26.2	48.71	-	-	74	-25.29	76	235	H
	* 7.294	27.52	MAv1	35.9	-26.2	37.22	54	-16.78	-	-	76	235	H
3	* 15.369	37.1	PK2	40.6	-21.8	55.9	-	-	74	-18.1	289	340	H
	* 15.368	25.32	MAv1	40.6	-21.8	44.12	54	-9.88	-	-	289	340	H
4	* 4.134	41.87	PK2	33.5	-30.6	44.77	-	-	74	-29.23	260	127	V
	* 4.132	30.04	MAv1	33.5	-30.6	32.94	54	-21.06	-	-	260	127	V
5	8.954	38.99	PK2	36.2	-25.4	49.79	-	-	-	-	245	117	V
6	10.443	36.93	PK2	37.4	-23.6	50.73	-	-	-	-	80	217	V

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

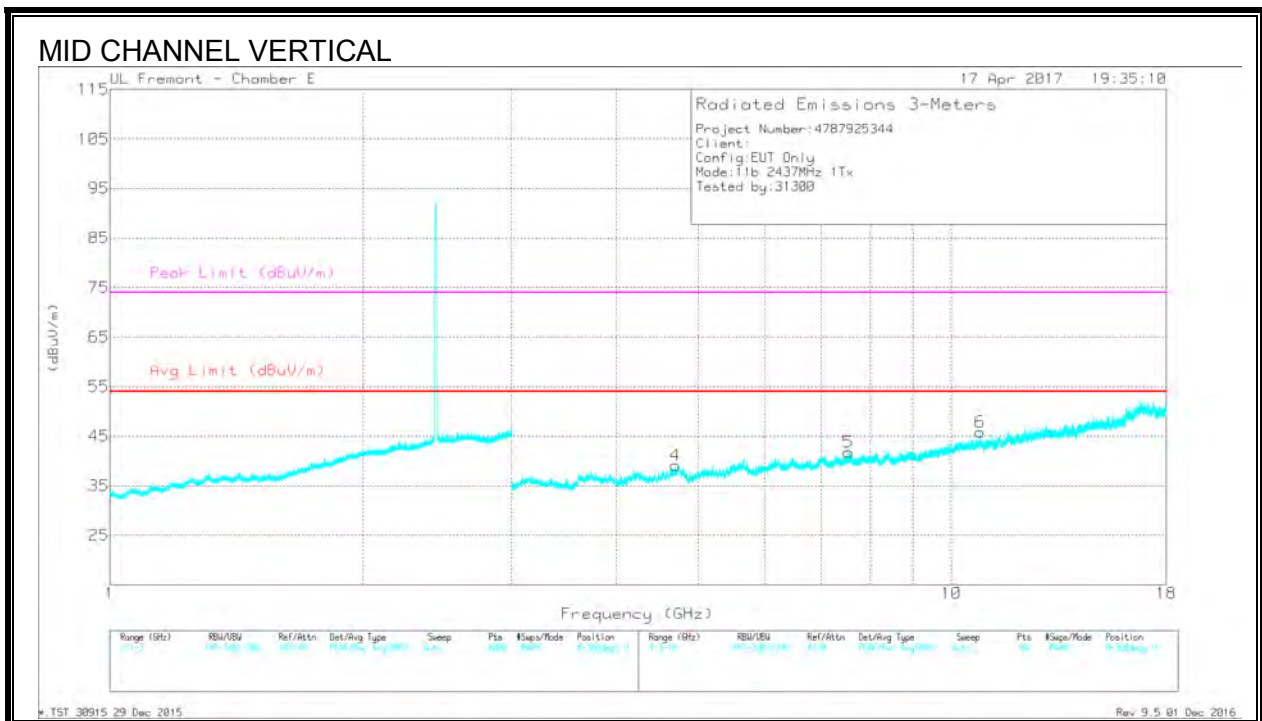
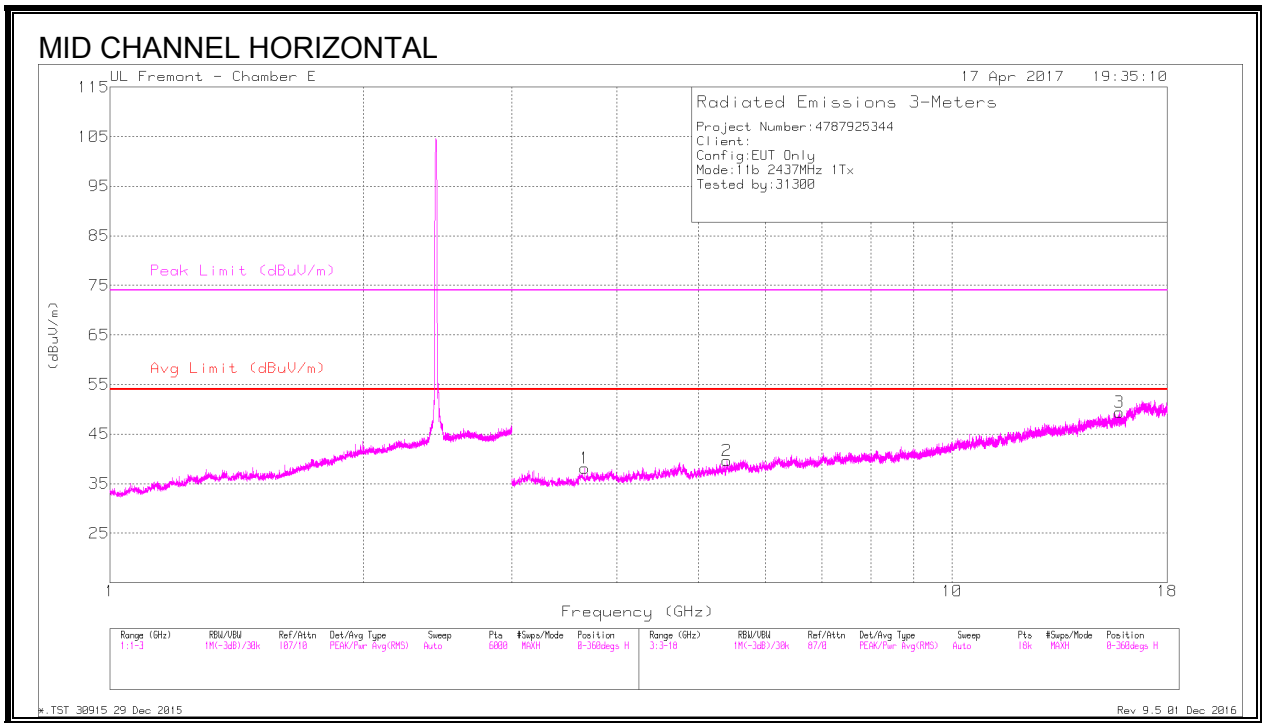
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015

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HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL, CH 6)



DATA

Markers	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	* 3.662	41.29	PK2	33.2	-30.6	43.89	-	-	74	-30.11	50	374	H
	* 3.663	29.7	MAv1	33.2	-30.6	32.3	54	-21.7	-	-	50	374	H
2	* 5.402	40.75	PK2	34.9	-29.3	46.35	-	-	74	-27.65	187	150	H
	* 5.403	28.73	MAv1	35	-29.3	34.43	54	-19.57	-	-	187	150	H
3	* 15.796	37.38	PK2	40.9	-22.7	55.58	-	-	74	-18.42	22	391	H
	* 15.799	25.69	MAv1	40.9	-22.6	43.99	54	-10.01	-	-	22	391	H
4	* 4.695	40.77	PK2	34.3	-29.3	45.77	-	-	74	-28.23	14	232	V
	* 4.697	29.26	MAv1	34.3	-29.2	34.36	54	-19.64	-	-	14	232	V
5	* 7.547	38.22	PK2	36.1	-26	48.32	-	-	74	-25.68	242	288	V
	* 7.545	26.36	MAv1	36.1	-25.9	36.56	54	-17.44	-	-	242	288	V
6	* 10.82	36.4	PK2	37.6	-22.5	51.5	-	-	74	-22.5	3	314	V
	* 10.82	24.81	MAv1	37.6	-22.5	39.91	54	-14.09	-	-	3	314	V

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

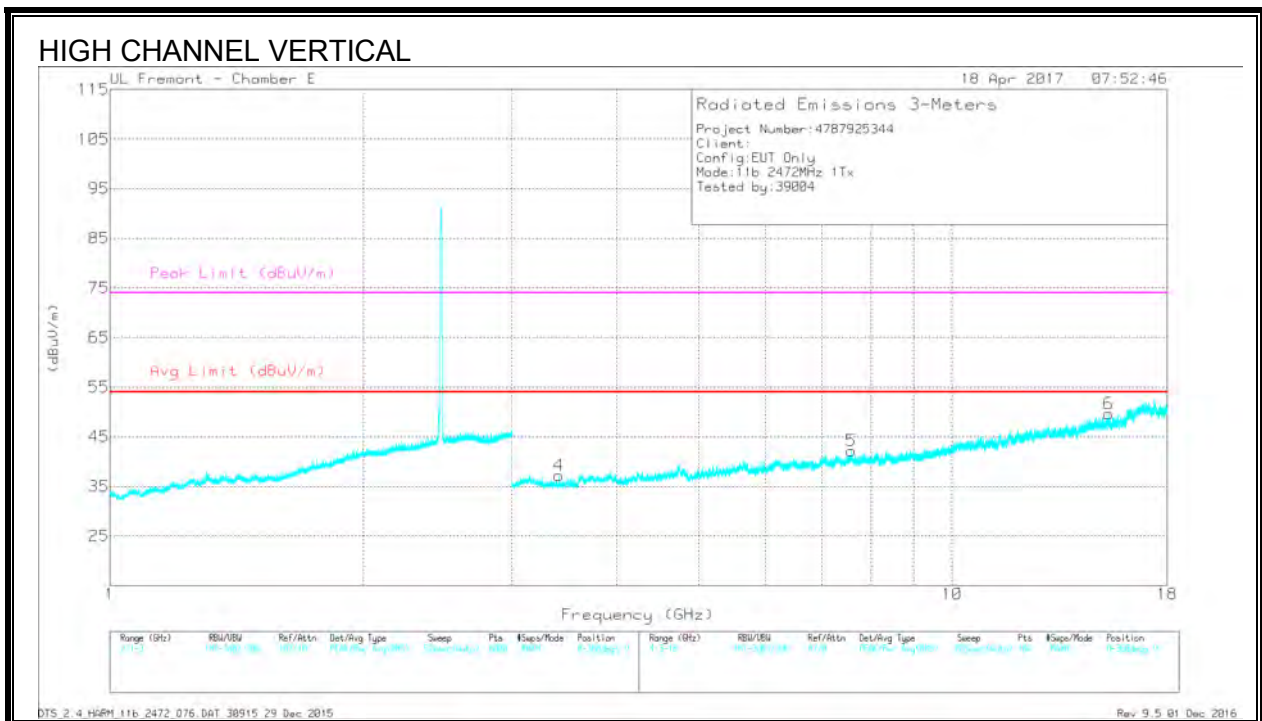
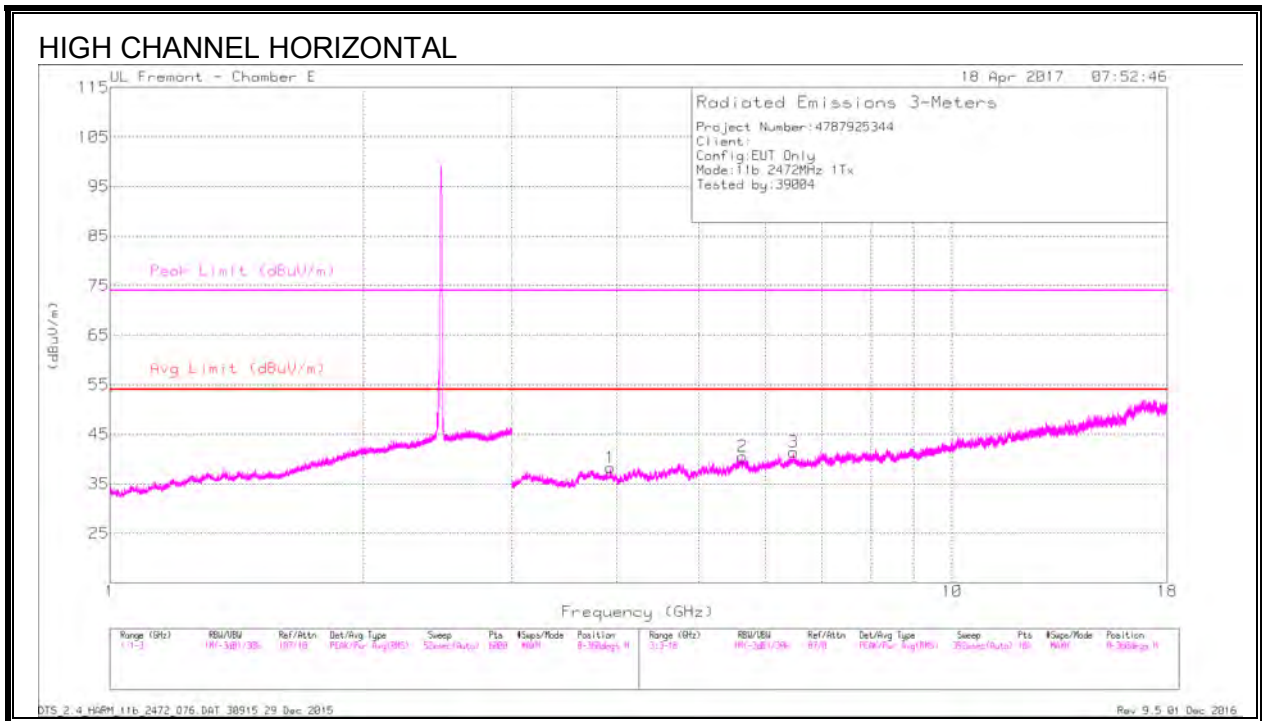
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

*.TST 30915 29 Dec 2015

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HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL, CH 13)



DATA

Marker	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	* 3.93	41.74	PK2	33.4	-29.4	45.74	-	-	74	-28.26	4	208	H
	* 3.933	29.51	MAv1	33.4	-29.2	33.71	54	-20.29	-	-	4	208	H
5	* 7.586	37.32	PK2	36.1	-25.7	47.72	-	-	74	-26.28	235	260	V
	* 7.589	25.85	MAv1	36.1	-25.7	36.25	54	-17.75	-	-	235	260	V
4	3.414	41.06	PK2	32.8	-30.9	42.96	-	-	-	-	262	152	V
3	5.642	40.4	PK2	35.2	-28.7	46.9	-	-	-	-	250	112	H
2	6.475	39.4	PK2	35.7	-27.2	47.9	-	-	-	-	212	175	H
6	15.324	36.13	PK2	40.6	-21.1	55.63	-	-	-	-	278	140	V

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

PK2 - KDB558074 Method: Maximum Peak

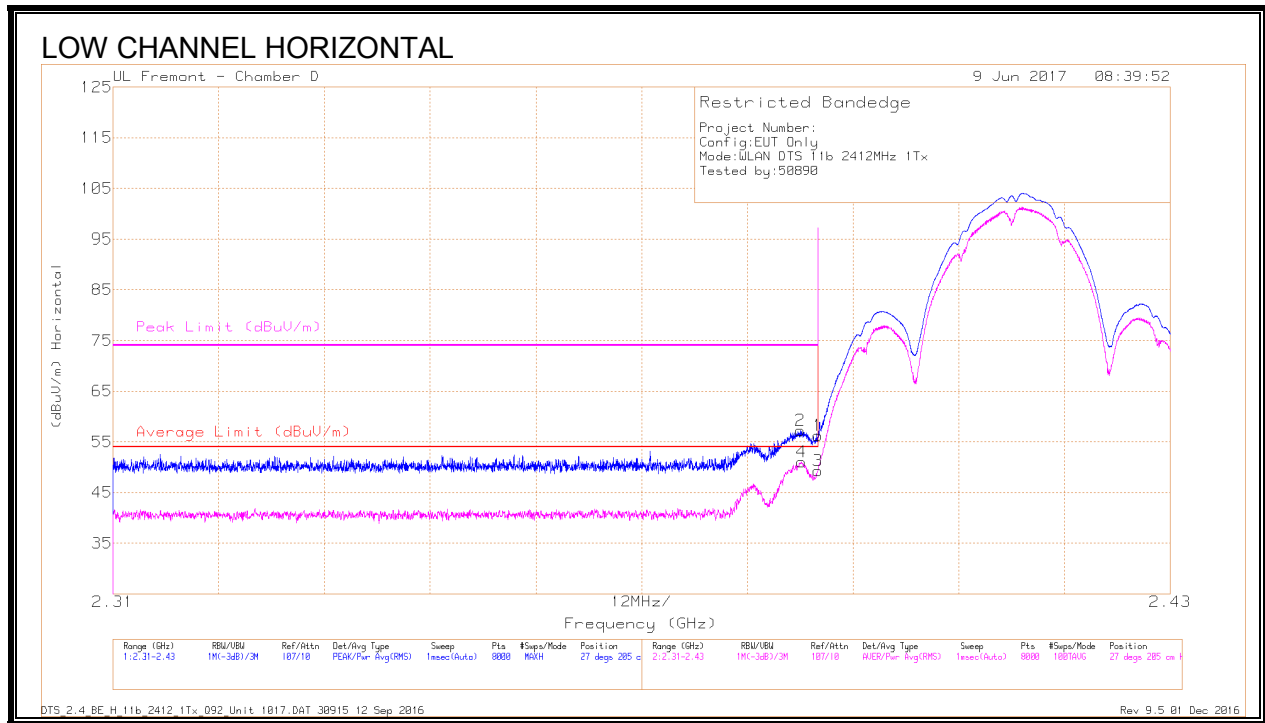
MAv1 - KDB558074 Option 1 Maximum RMS Average

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

AUTHORIZED BANDEDGE (LOW CHANNEL, CH 1)

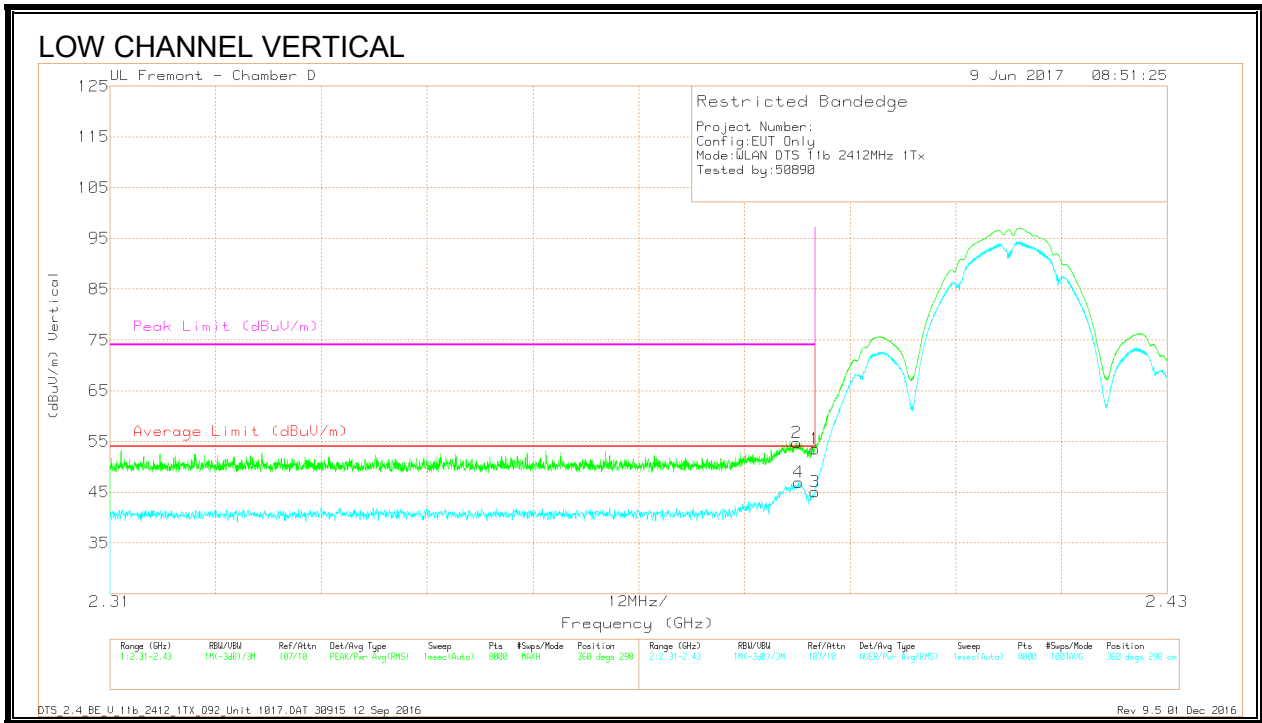


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	44.82	Pk	32.1	-20.7	56.22	-	-	74	-17.78	27	205	H
2	* 2.388	46	Pk	32.1	-20.8	57.3	-	-	74	-16.7	27	205	H
3	* 2.39	37.89	RMS	32.1	-20.7	49.29	54	-4.71	-	-	27	205	H
4	* 2.388	39.75	RMS	32.1	-20.8	51.05	54	-2.95	-	-	27	205	H

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

Pk - Peak detector

RMS - RMS detection



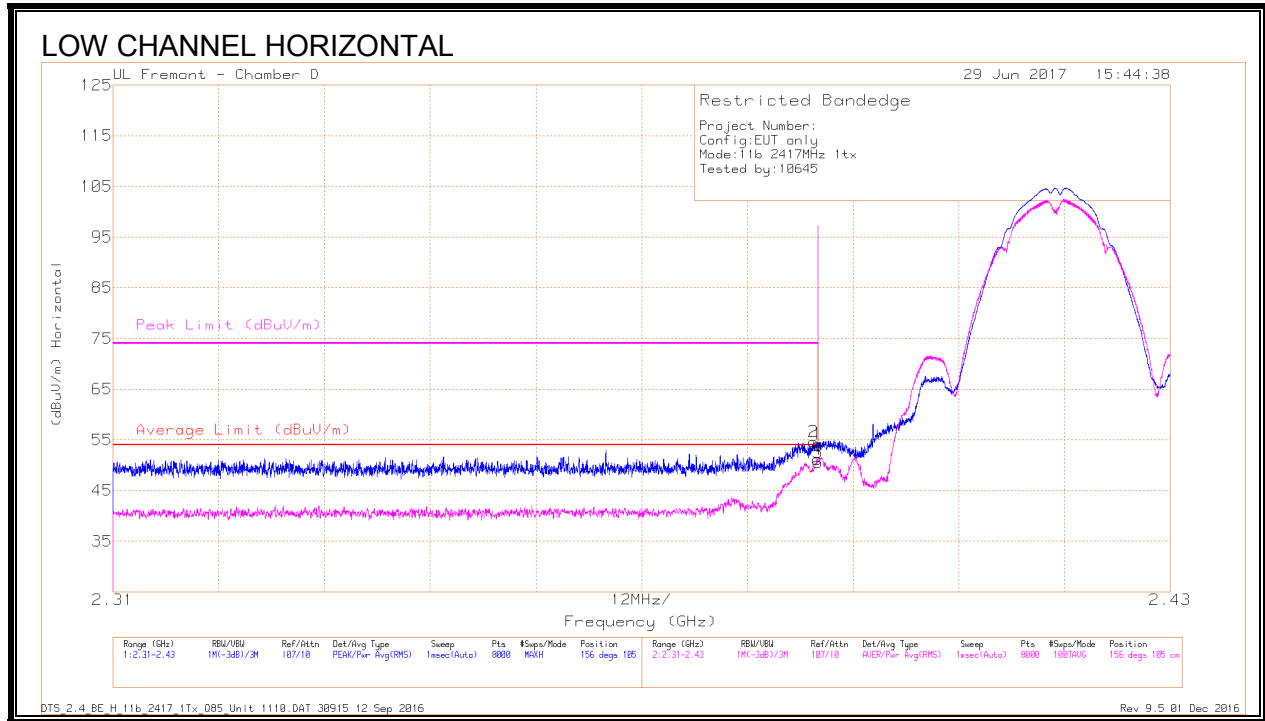
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	42.1	Pk	32.1	-20.7	53.5	-	-	74	-20.5	360	298	V
2	* 2.388	43.46	Pk	32.1	-20.8	54.76	-	-	74	-19.24	360	298	V
3	* 2.39	33.63	RMS	32.1	-20.7	45.03	54	-8.97	-	-	360	298	V
4	* 2.388	35.6	RMS	32.1	-20.8	46.9	54	-7.1	-	-	360	298	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (LOW CHANNEL, CH 2)

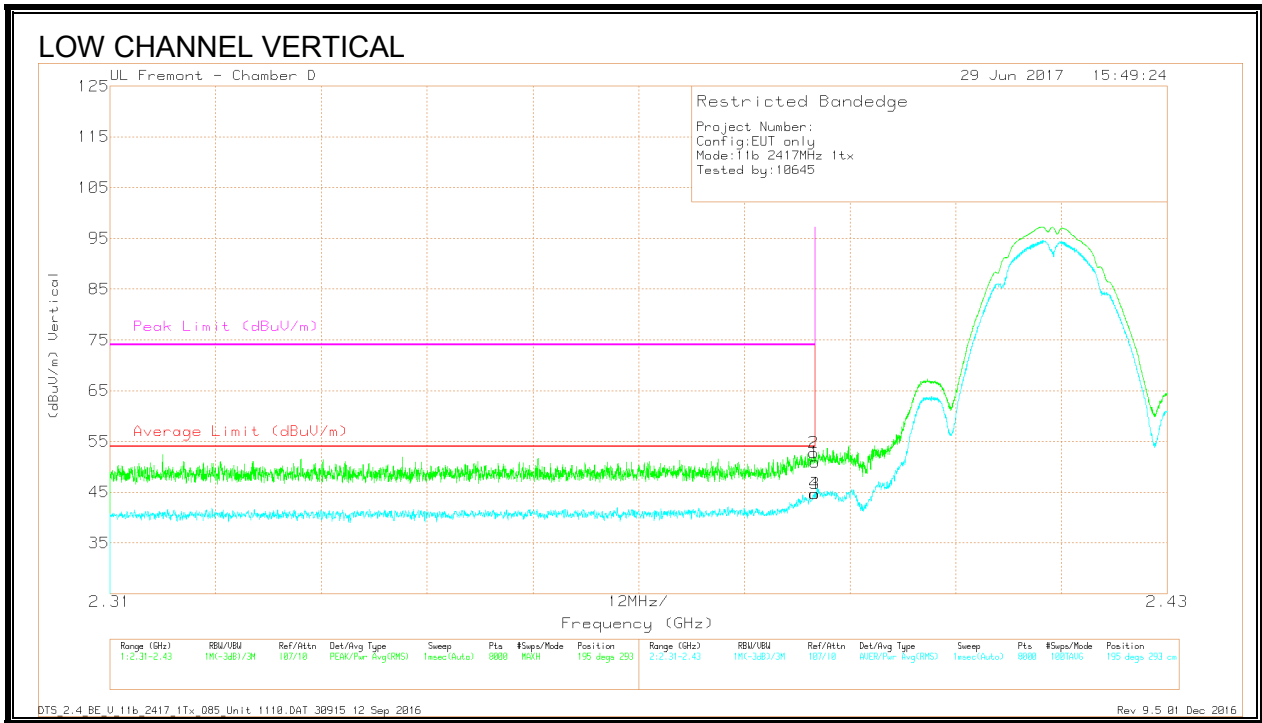


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	42.71	Pk	32.1	-20.7	54.11	-	-	74	-19.89	156	105	H
2	* 2.39	43.38	Pk	32.1	-20.8	54.68	-	-	74	-19.32	156	105	H
3	* 2.39	39.16	RMS	32.1	-20.7	50.56	54	-3.44	-	-	156	105	H
4	* 2.39	39.81	RMS	32.1	-20.7	51.21	54	-2.79	-	-	156	105	H

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

Pk - Peak detector

RMS - RMS detection



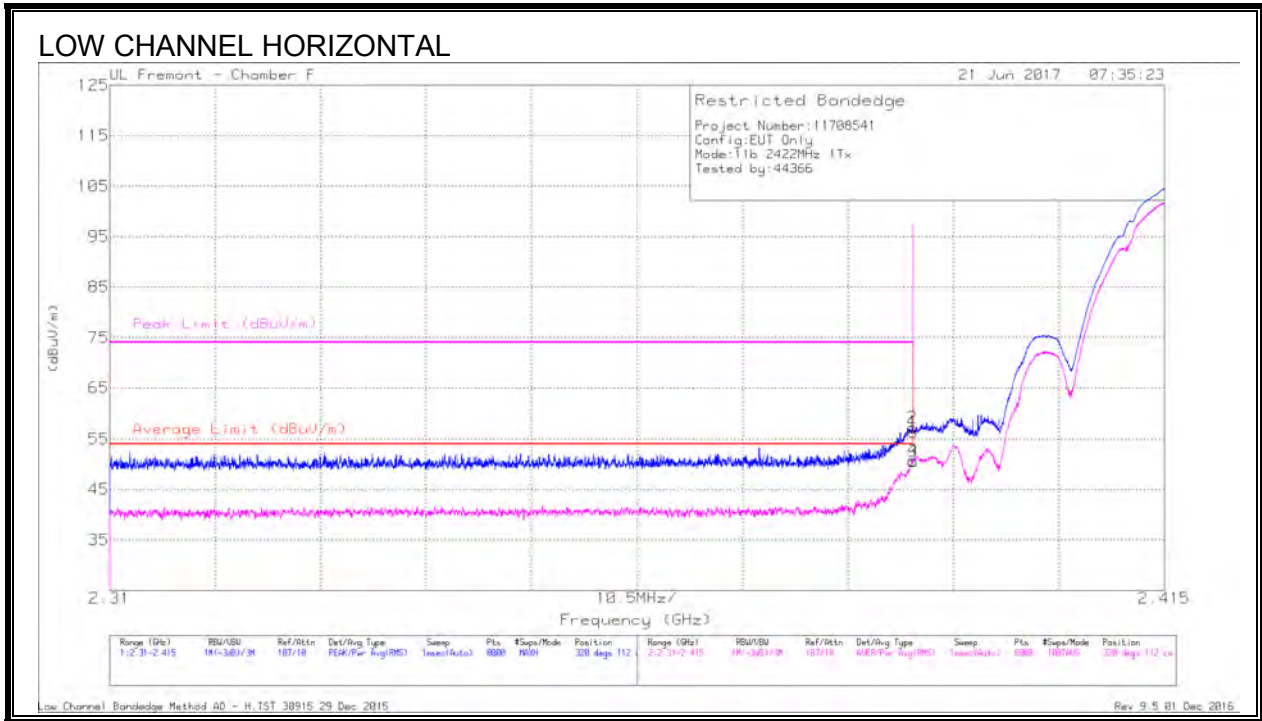
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cb/Filt/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.54	Pk	32.1	-20.7	50.94	-	-	74	-23.06	195	293	V
2	* 2.39	41.38	Pk	32.1	-20.7	52.78	-	-	74	-21.22	195	293	V
3	* 2.39	33.33	RMS	32.1	-20.7	44.73	54	-9.27	-	-	195	293	V
4	* 2.39	33.36	RMS	32.1	-20.7	44.76	54	-9.24	-	-	195	293	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (LOW CHANNEL, CH 3)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	45.43	Pk	31.9	-21	56.33	-	-	74	-17.67	320	112	H
2	* 2.39	46.39	Pk	31.9	-21	57.29	-	-	74	-16.71	320	112	H
3	* 2.39	39.68	RMS	31.9	-21	50.58	54	-3.42	-	-	320	112	H
4	* 2.39	39.83	RMS	31.9	-21	50.73	54	-3.27	-	-	320	112	H

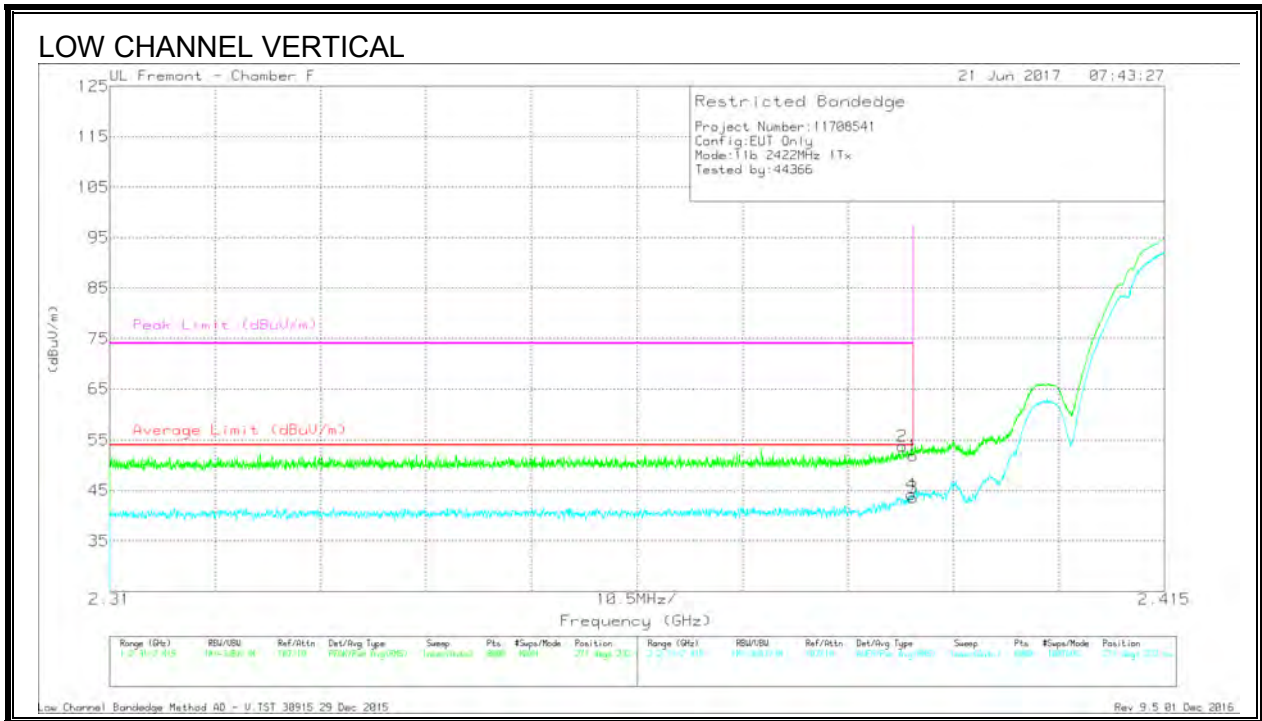
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.01	Pk	31.9	-21	51.91	-	-	74	-22.09	271	232	V
2	* 2.389	42.79	Pk	31.9	-20.9	53.79	-	-	74	-20.21	271	232	V
3	* 2.39	32.64	RMS	31.9	-21	43.54	54	-10.46	-	-	271	232	V
4	* 2.39	33.27	RMS	31.9	-21	44.17	54	-9.83	-	-	271	232	V

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

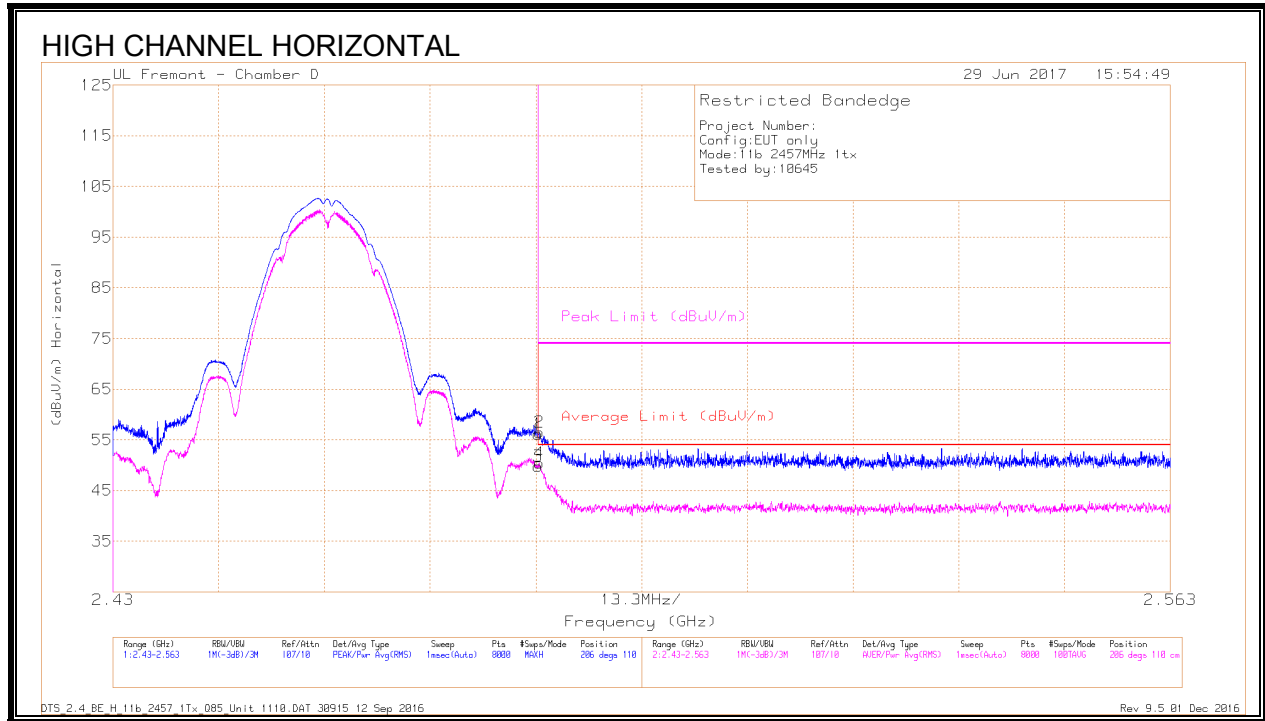
Pk - Peak detector

RMS - RMS detection

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

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AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 10)

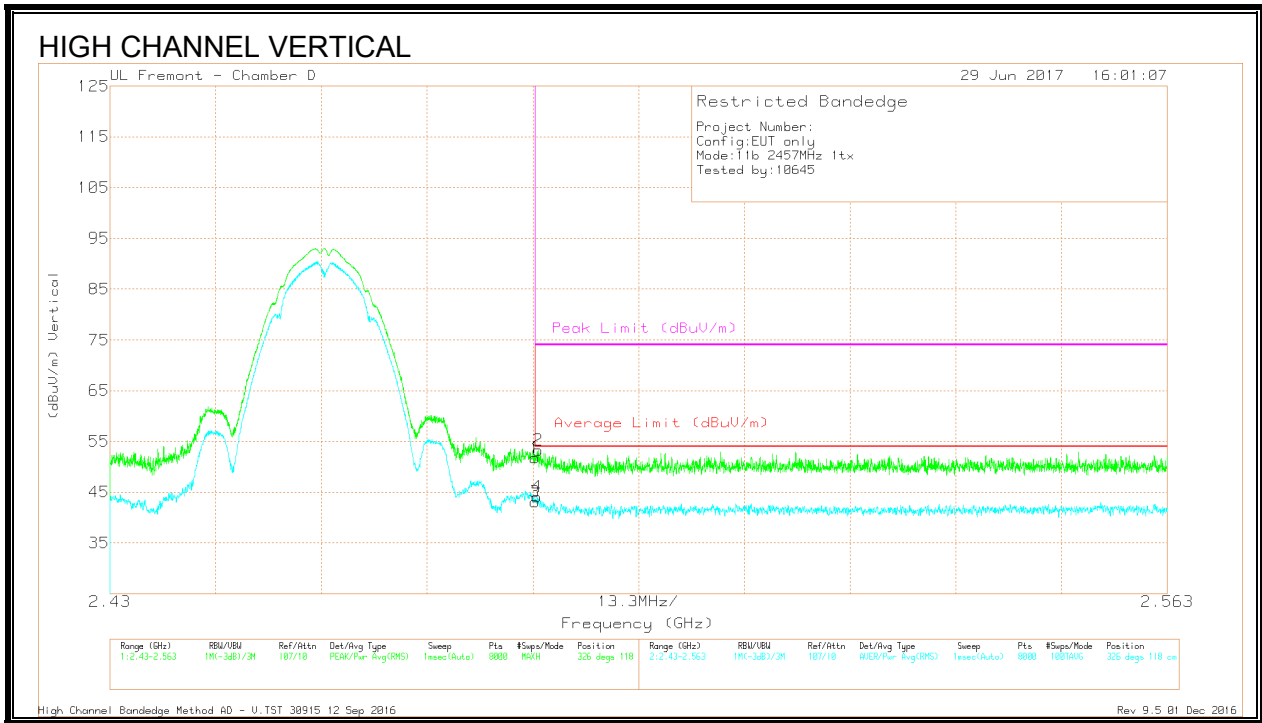


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	44.44	Pk	32.5	-20.8	56.14	-	-	74	-17.86	206	110	H
2	* 2.484	44.78	Pk	32.5	-20.8	56.48	-	-	74	-17.52	206	110	H
3	* 2.484	38.07	RMS	32.5	-20.8	49.77	54	-4.23	-	-	206	110	H
4	* 2.484	38.68	RMS	32.5	-20.8	50.38	54	-3.62	-	-	206	110	H

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

Pk - Peak detector

RMS - RMS detection



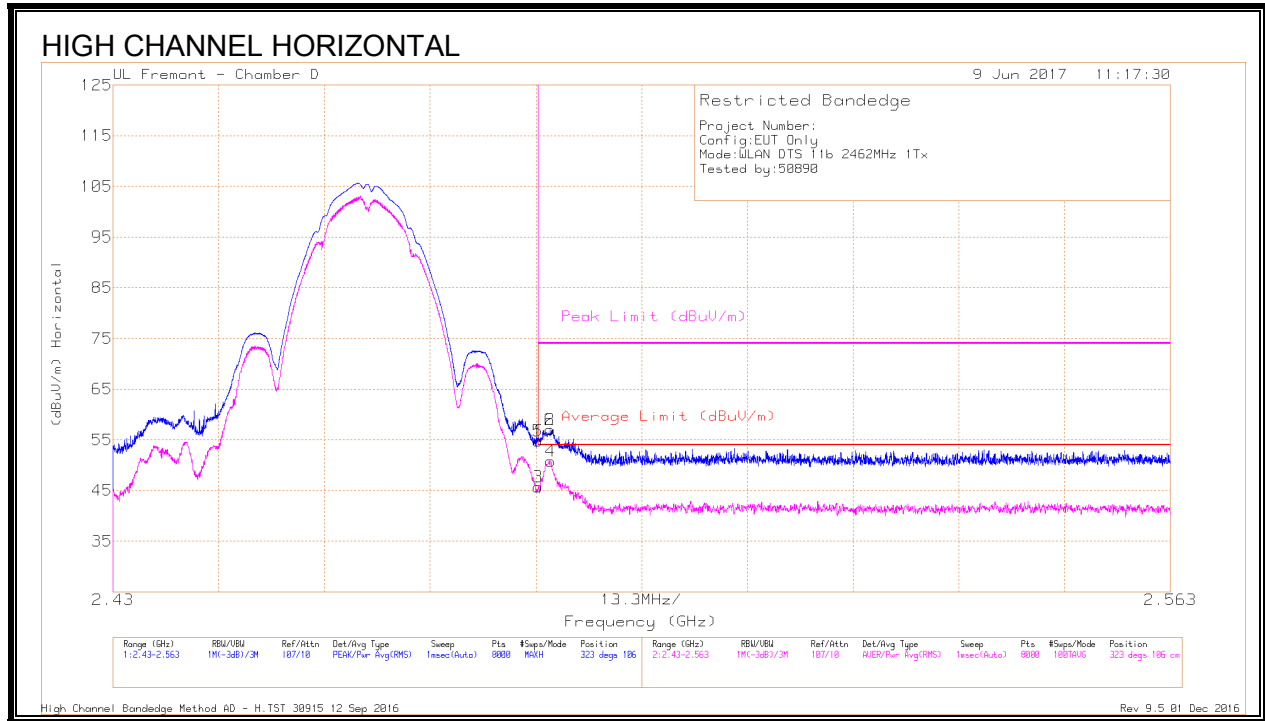
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.03	Pk	32.5	-20.8	51.73	-	-	74	-22.27	326	118	V
2	* 2.484	41.57	Pk	32.5	-20.8	53.27	-	-	74	-20.73	326	118	V
3	* 2.484	31.38	RMS	32.5	-20.8	43.08	54	-10.92	-	-	326	118	V
4	* 2.484	32.33	RMS	32.5	-20.8	44.03	54	-9.97	-	-	326	118	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 11)

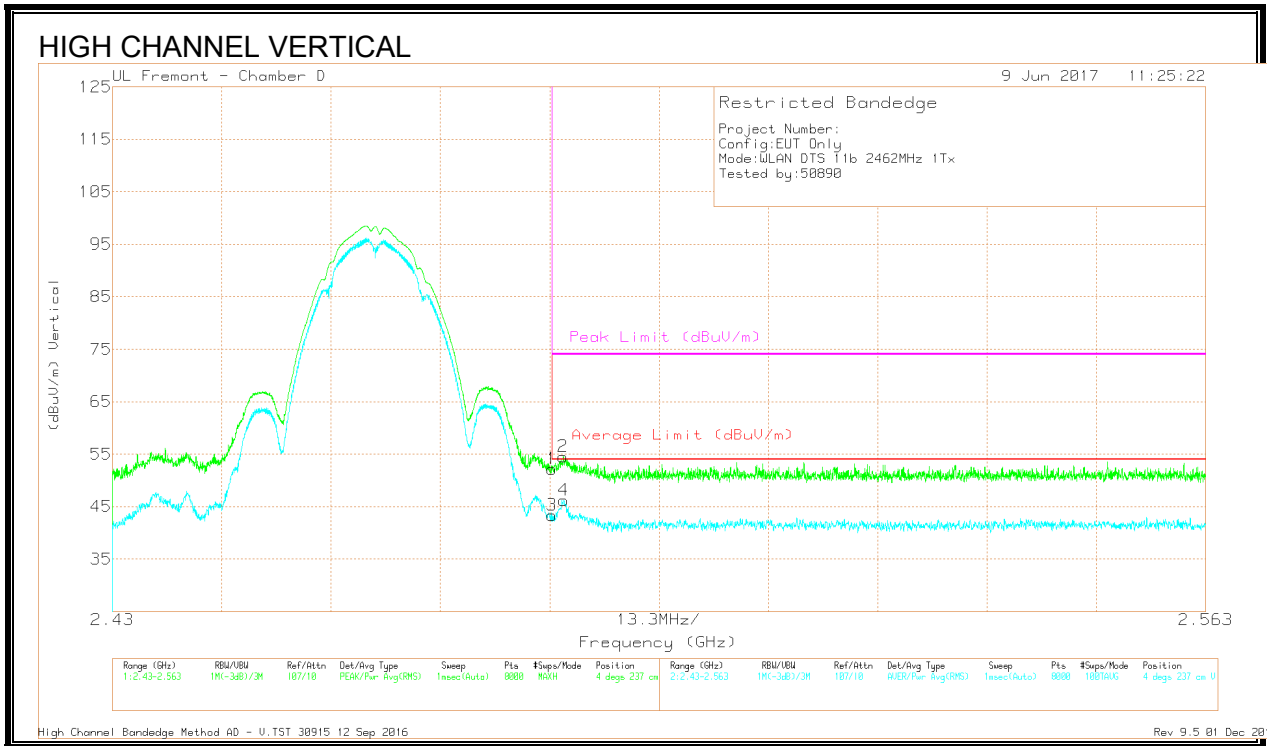


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
1	* 2.484	43.07	Pk	32.5	-20.8	54.77	-	-	74	-19.23	323	106	H
2	* 2.485	45.32	Pk	32.5	-20.8	57.02	-	-	74	-16.98	323	106	H
3	* 2.484	34.05	RMS	32.5	-20.8	45.75	54	-8.25	-	-	323	106	H
4	* 2.485	39.11	RMS	32.5	-20.8	50.81	54	-3.19	-	-	323	106	H

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

Pk - Peak detector

RMS - RMS detection



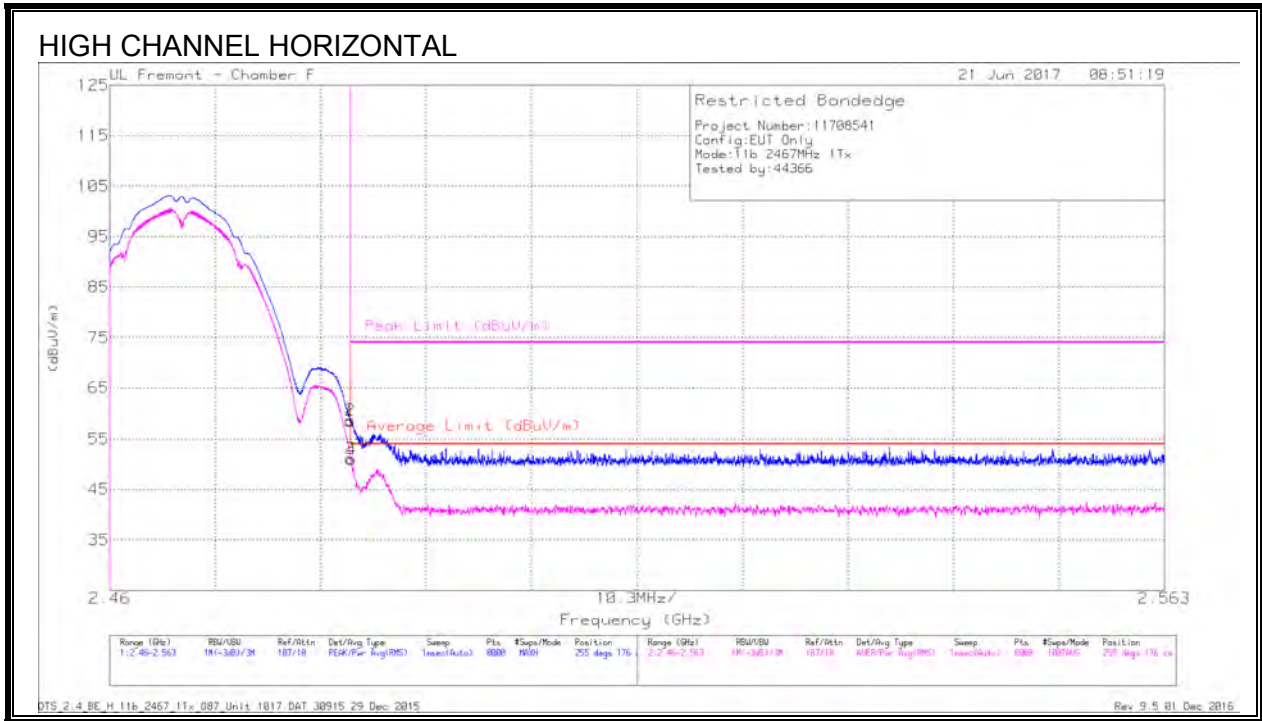
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.42	Pk	32.5	-20.8	52.12	-	-	74	-21.88	4	237	V
3	* 2.484	31.63	RMS	32.5	-20.8	43.33	54	-10.67	-	-	4	237	V
2	* 2.485	42.83	Pk	32.5	-20.8	54.53	-	-	74	-19.47	4	237	V
4	* 2.485	34.52	RMS	32.5	-20.8	46.22	54	-7.78	-	-	4	237	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 12)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	47.38	Pk	32.1	-21	58.48	-	-	74	-15.52	255	176	H
2	* 2.484	47.69	Pk	32.1	-21	58.79	-	-	74	-15.21	255	176	H
3	* 2.484	40.01	RMS	32.1	-21	51.11	54	-2.89	-	-	255	176	H
4	* 2.484	39.77	RMS	32.1	-21	50.87	54	-3.13	-	-	255	176	H

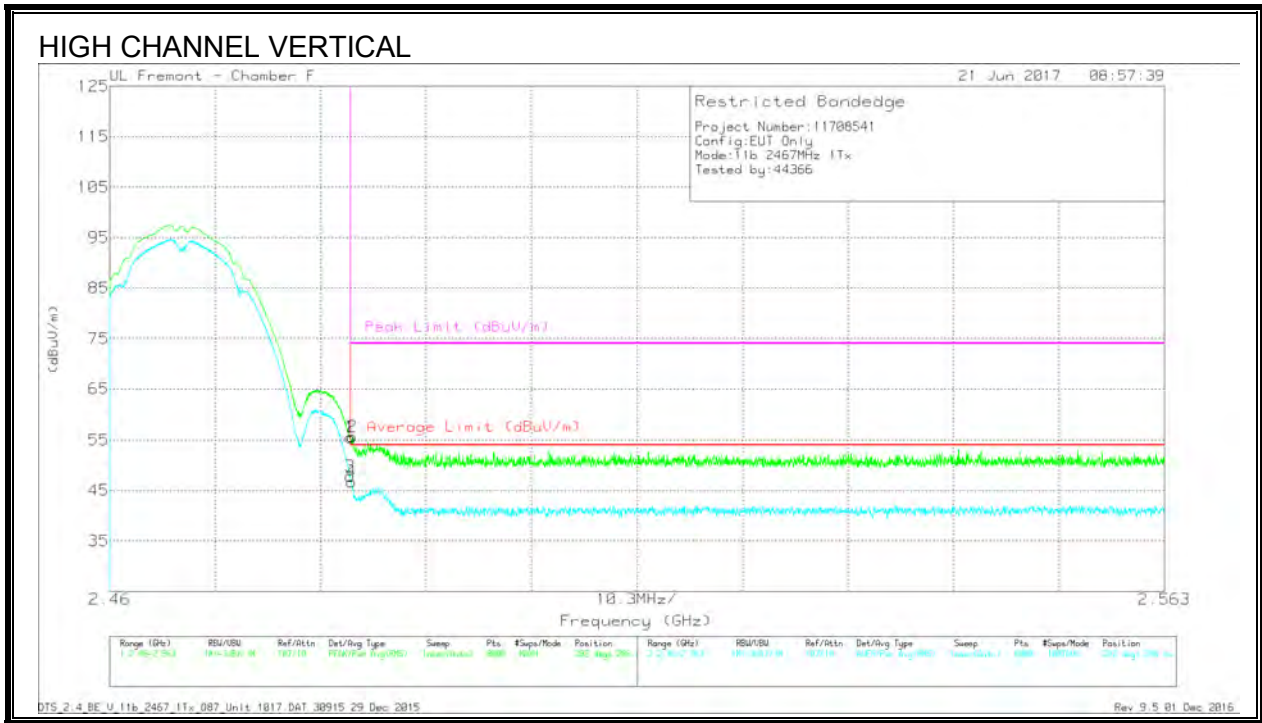
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

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Marker	Frequ ncy (GHz)	Meter Readin g (dBuV)	Det	AF T119 (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)	Azimuth (Degs)	Height (cm)	Polarit y
1	* 2.484	44.38	Pk	32.1	-21	55.48	-	-	74	-18.52	282	286	V
2	* 2.484	44.48	Pk	32.1	-21	55.58	-	-	74	-18.42	282	286	V
3	* 2.484	36.66	RMS	32.1	-21	47.76	54	-6.24	-	-	282	286	V
4	* 2.484	35.61	RMS	32.1	-21	46.71	54	-7.29	-	-	282	286	V

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

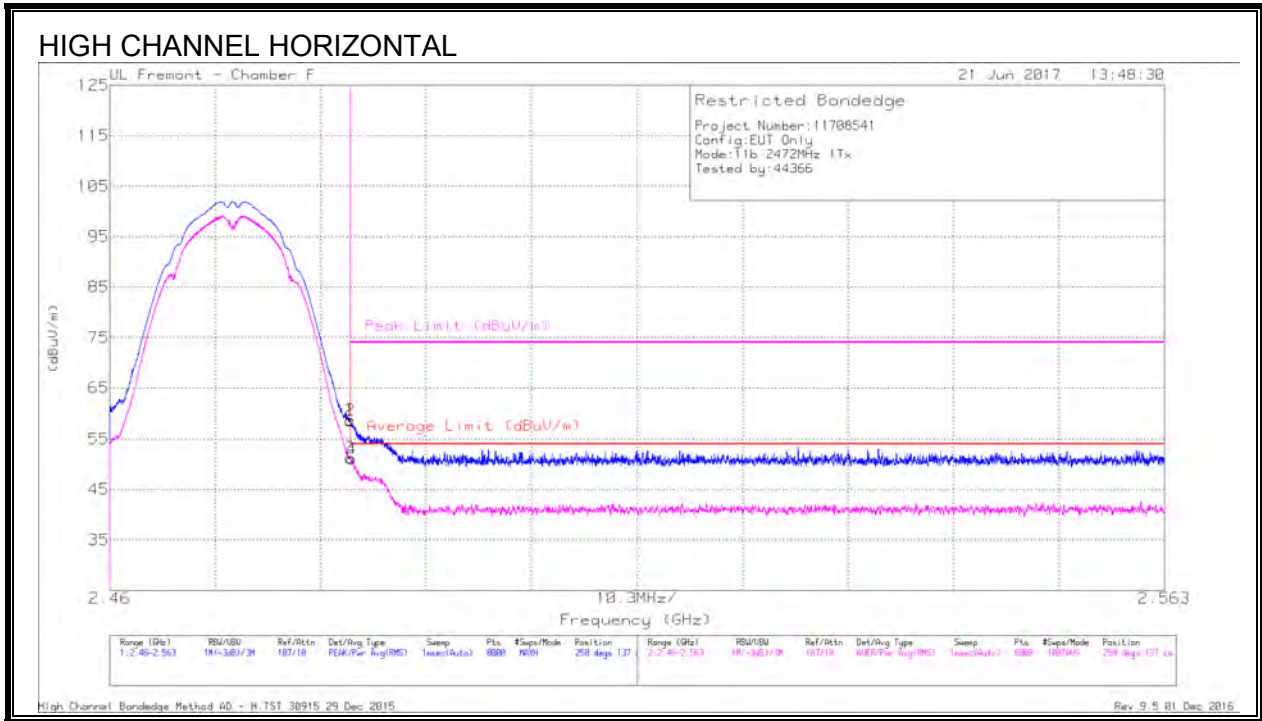
Pk - Peak detector

RMS - RMS detection

DTS_2.4_BE_V_11b_2467_1Tx_Q87_Unit 1017.DAT 30915 29 Dec 2015

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AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 13)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	47.46	Pk	32.1	-21	58.56	-	-	74	-15.44	258	137	H
2	* 2.484	47.61	Pk	32.1	-21	58.71	-	-	74	-15.29	258	137	H
3	* 2.484	40.15	RMS	32.1	-21	51.25	54	-2.75	-	-	258	137	H
4	* 2.484	39.95	RMS	32.1	-21	51.05	54	-2.95	-	-	258	137	H

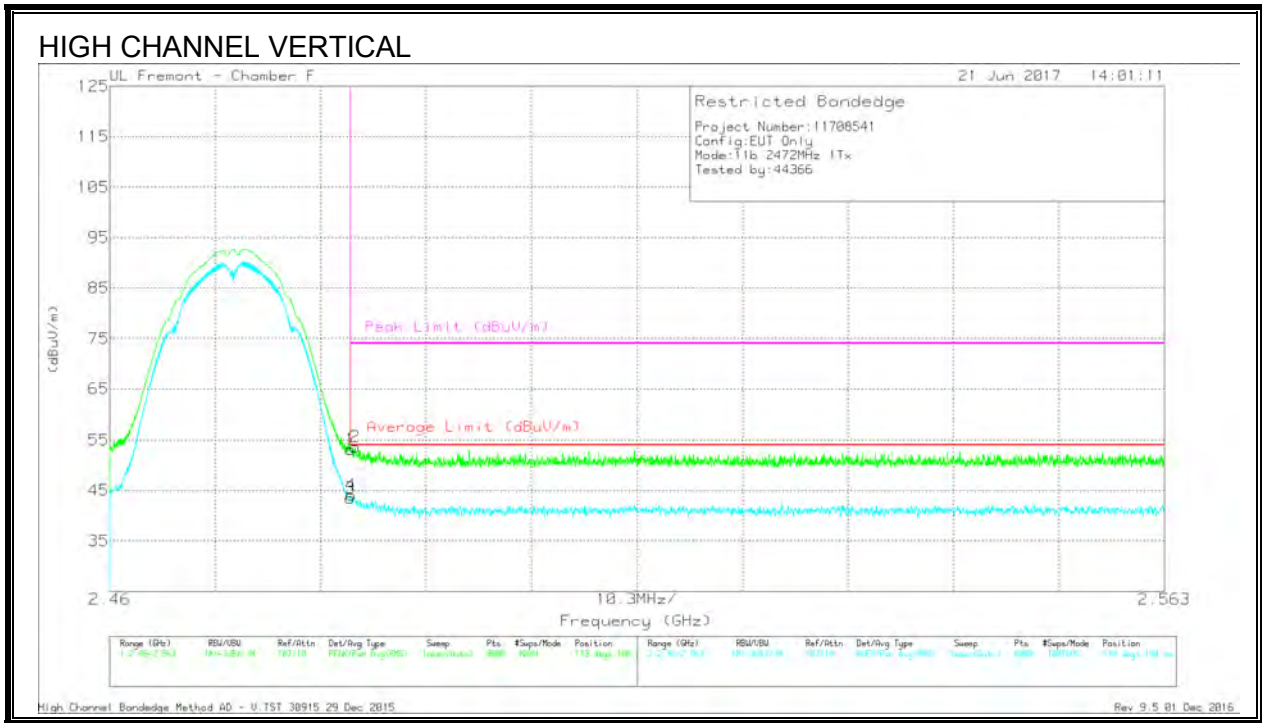
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

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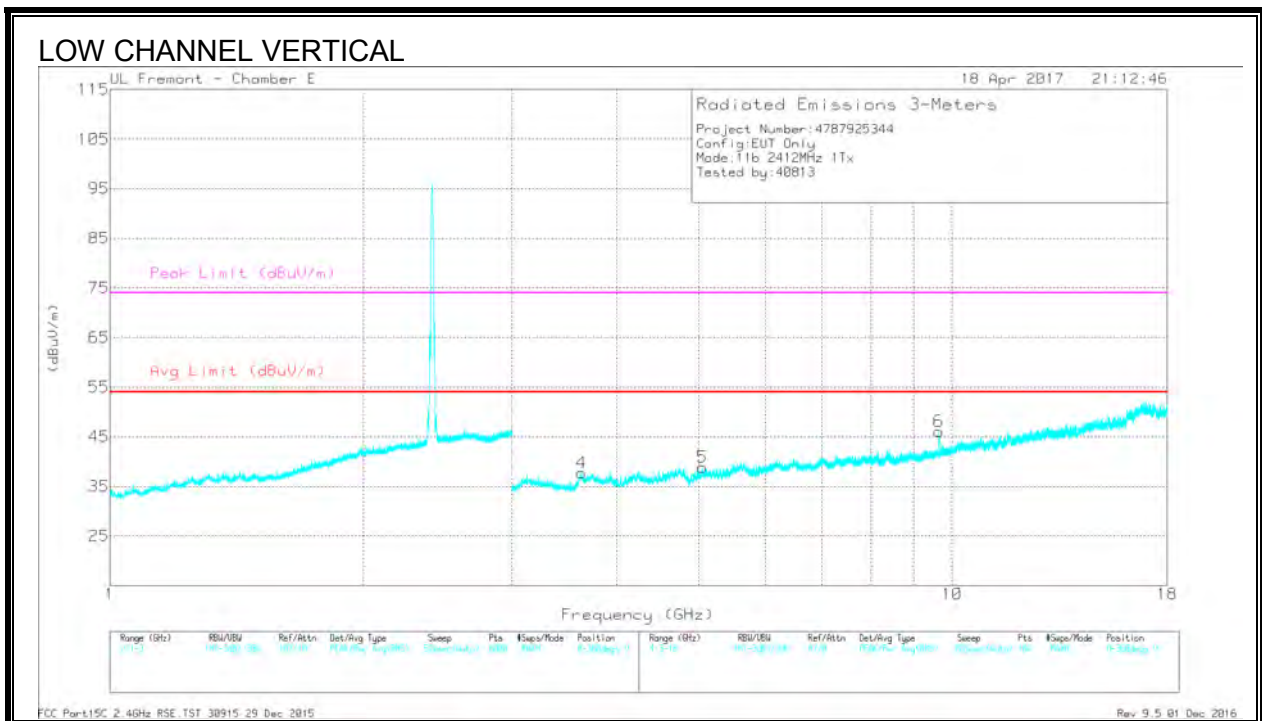
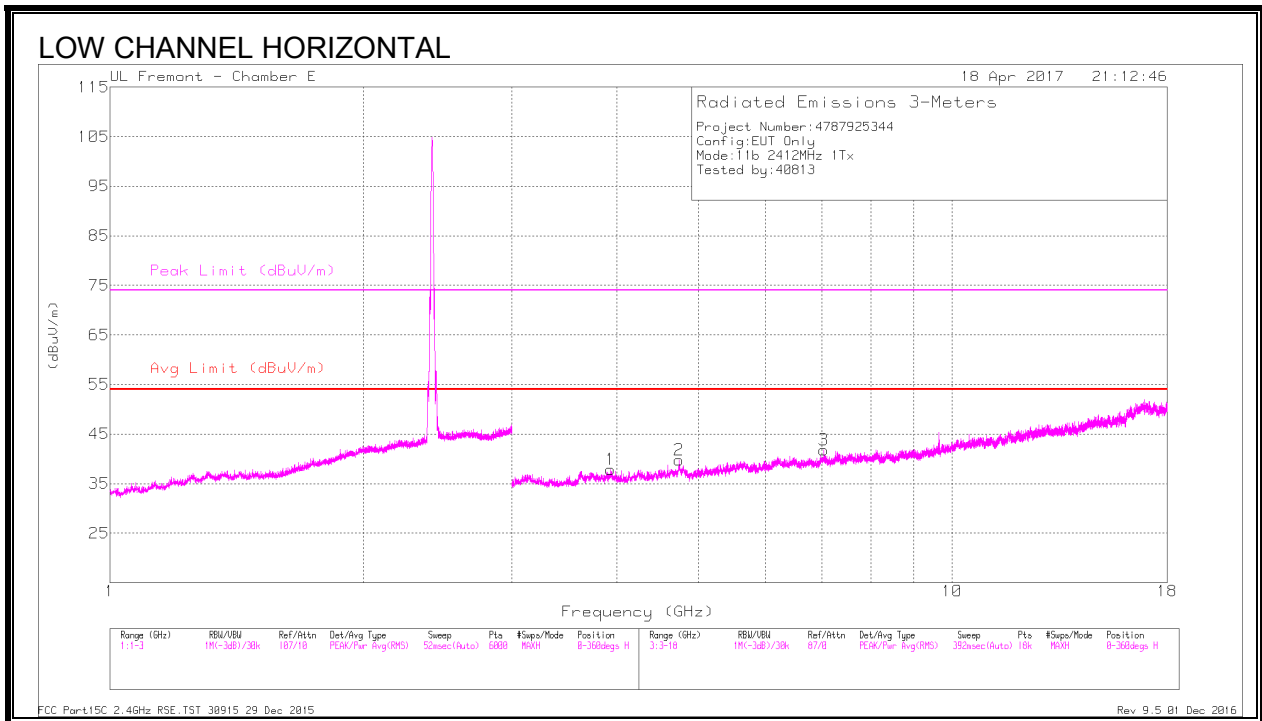
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.02	Pk	32.1	-21	53.12	-	-	74	-20.88	118	100	V
2	* 2.484	42.44	Pk	32.2	-21	53.64	-	-	74	-20.36	118	100	V
3	* 2.484	32.32	RMS	32.1	-21	43.42	54	-10.58	-	-	118	100	V
4	* 2.484	33	RMS	32.1	-21	44.1	54	-9.9	-	-	118	100	V

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

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL, CH 1)



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 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	* 3.93	41.49	PK2	33.4	-29.4	45.49	-	-	74	-28.51	360	200	H
	* 3.93	29.89	MAv1	33.4	-29.4	33.89	54	-20.11	-	-	360	200	H
2	* 4.743	40.54	PK2	34.3	-29	45.84	-	-	74	-28.16	235	193	H
	* 4.741	29.05	MAv1	34.3	-28.9	34.45	54	-19.55	-	-	235	193	H
4	* 3.627	41.44	PK2	33	-30.2	44.24	-	-	74	-29.76	358	302	V
	* 3.629	29.53	MAv1	33.1	-30.2	32.43	54	-21.57	-	-	358	302	V
5	* 5.055	41.02	PK2	34.3	-29.7	45.62	-	-	74	-28.38	154	367	V
	* 5.056	29.42	MAv1	34.3	-29.7	34.02	54	-19.98	-	-	154	367	V
3	7.043	38.44	PK2	35.7	-26.5	47.64	-	-	-	-	290	319	H
6	9.648	40.41	PK2	36.7	-25.3	51.81	-	-	-	-	63	132	V

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

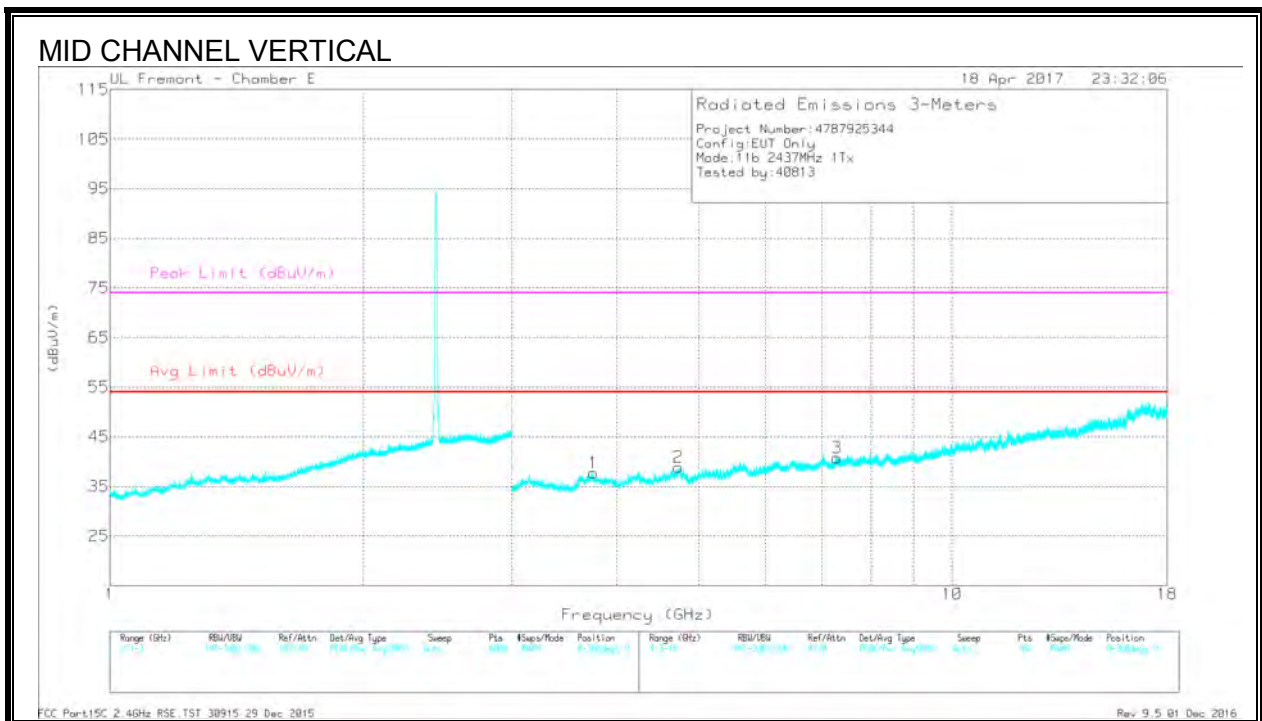
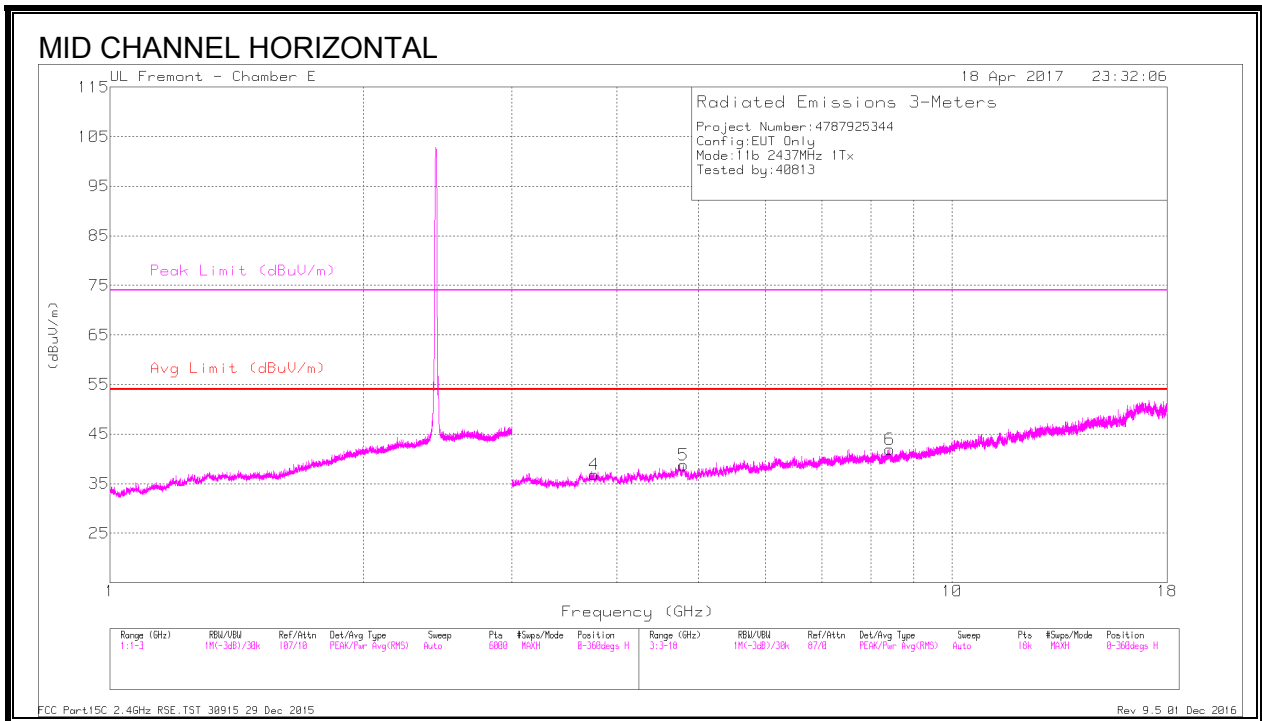
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2016

HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL, CH 6)



DATA

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cb/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 3.756	41.65	PK2	33.4	-30	45.05	-	-	74	-28.95	112	321	H
	* 3.757	29.61	MAV1	33.4	-30.1	32.91	54	-21.09	-	-	112	321	H
5	* 4.795	41.53	PK2	34.2	-29.6	46.13	-	-	74	-27.87	140	153	H
	* 4.795	30.53	MAV1	34.2	-29.6	35.13	54	-18.87	-	-	140	153	H
6	* 8.427	37.88	PK2	36	-25.6	48.28	-	-	74	-25.72	184	228	H
	* 8.426	26.81	MAV1	36	-25.5	37.31	54	-16.69	-	-	184	228	H
1	* 3.75	42	PK2	33.4	-29.8	45.6	-	-	74	-28.4	167	224	V
	* 3.749	30.08	MAV1	33.4	-29.8	33.68	54	-20.32	-	-	167	224	V
2	* 4.734	40.56	PK2	34.3	-29.1	45.76	-	-	74	-28.24	158	238	V
	* 4.733	29.41	MAV1	34.3	-29.1	34.61	54	-19.39	-	-	158	238	V
3	* 7.294	38.24	PK2	35.9	-26.2	47.94	-	-	74	-26.06	196	253	V
	* 7.295	27.56	MAV1	35.9	-26.2	37.26	54	-16.74	-	-	196	253	V

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

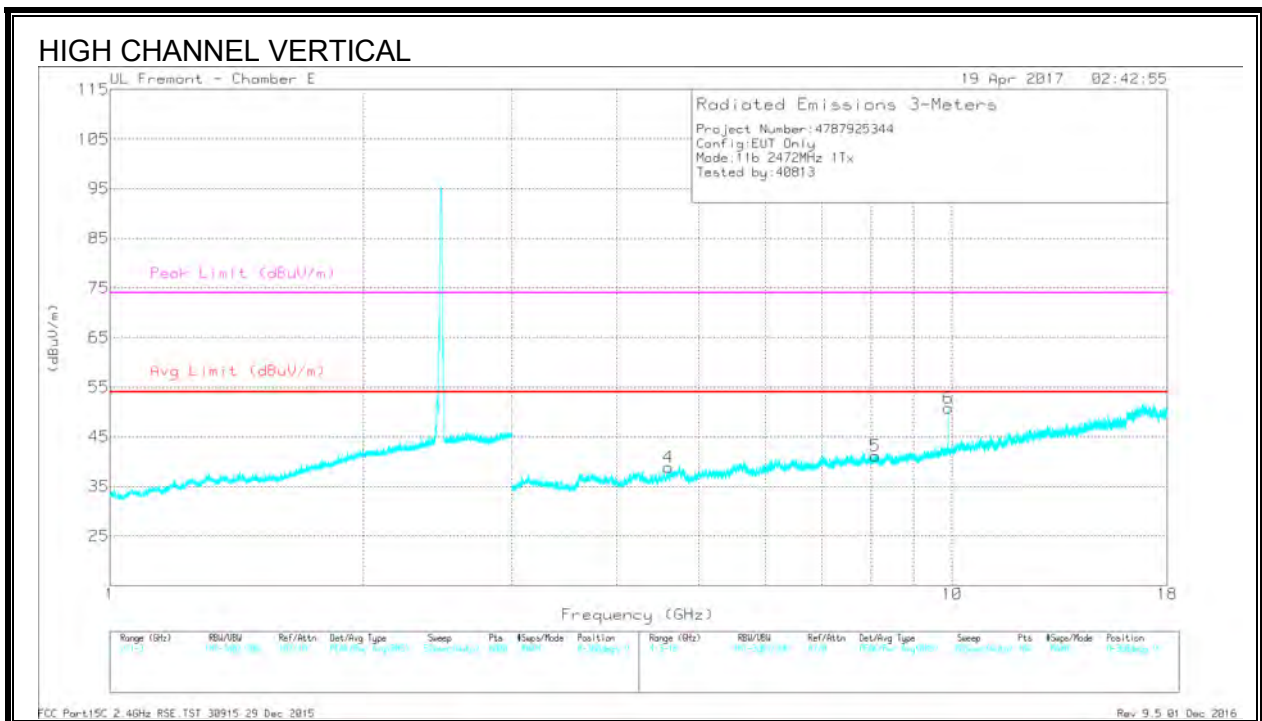
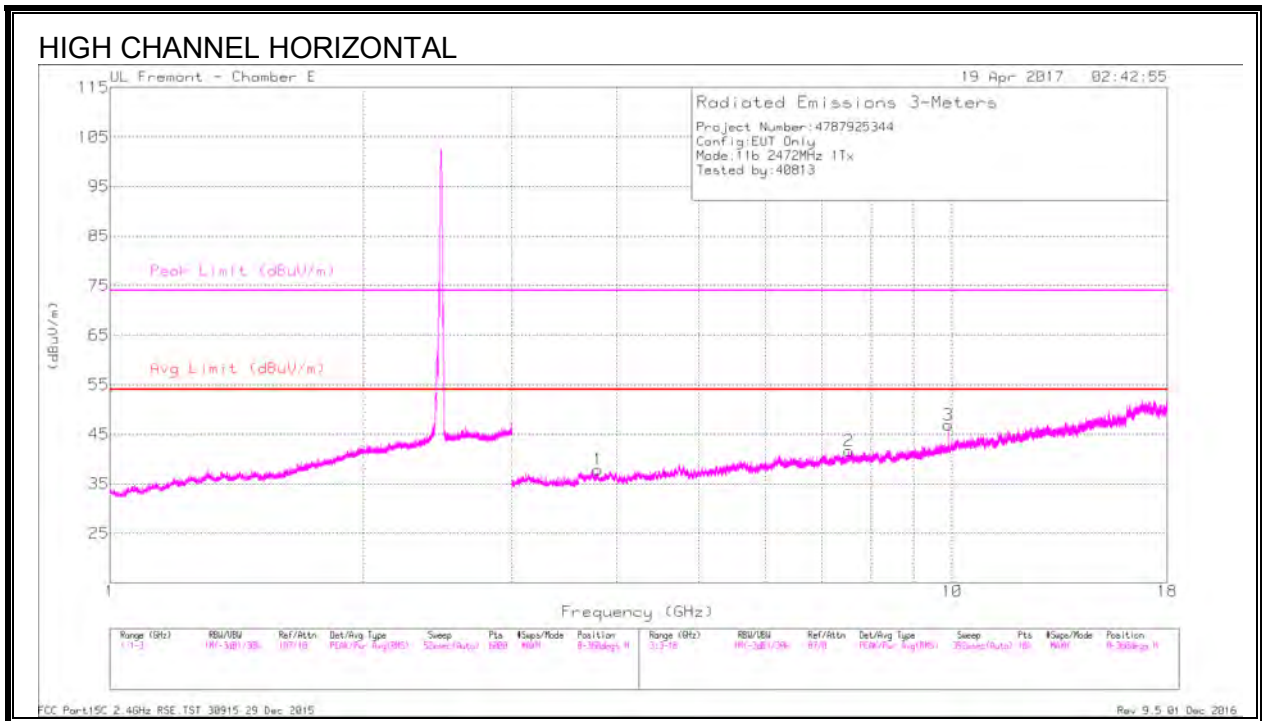
PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015

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HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL, CH 13)



DATA

Marker	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	* 3.795	41.73	PK2	33.4	-30.4	44.73	-	-	74	-29.27	149	151	H
	* 3.796	30.31	MAv1	33.4	-30.4	33.31	54	-20.69	-	-	149	151	H
2	* 7.538	38.36	PK2	36.1	-26.2	48.26	-	-	74	-25.74	116	168	H
	* 7.537	27	MAv1	36.1	-26.2	36.9	54	-17.1	-	-	116	168	H
4	* 4.6	41.67	PK2	34.2	-30.2	45.67	-	-	74	-28.33	2	239	V
	* 4.601	29.62	MAv1	34.2	-30.2	33.62	54	-20.38	-	-	2	239	V
5	* 8.104	38.15	PK2	36	-25.6	48.55	-	-	74	-25.45	20	222	V
	* 8.102	26.79	MAv1	36	-25.7	37.09	54	-16.91	-	-	20	222	V
3	9.888	39.84	PK2	37	-24.5	52.34	-	-	-	-	18	284	H
6	9.888	42.42	PK2	37	-24.5	54.92	-	-	-	-	288	241	V

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

PK2 - KDB558074 Method: Maximum Peak

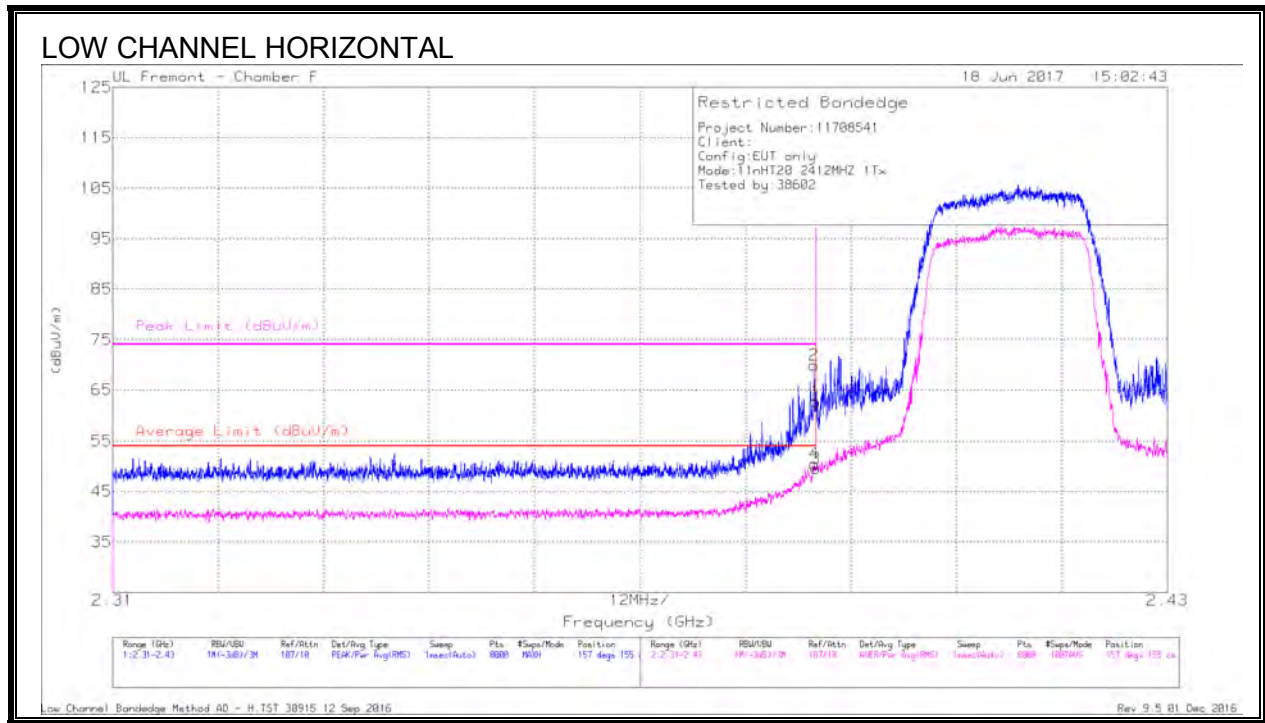
MAv1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015

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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 T119 (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	51.93	Pk	31.9	-21	62.83	-	-	74	-11.17	157	155	H
2	* 2.39	59.06	Pk	31.9	-21	69.96	-	-	74	-4.04	157	155	H
3	* 2.39	38.63	RMS	31.9	-21	49.53	54	-4.47	-	-	157	155	H
4	* 2.39	39.58	RMS	31.9	-21	50.48	54	-3.52	-	-	157	155	H

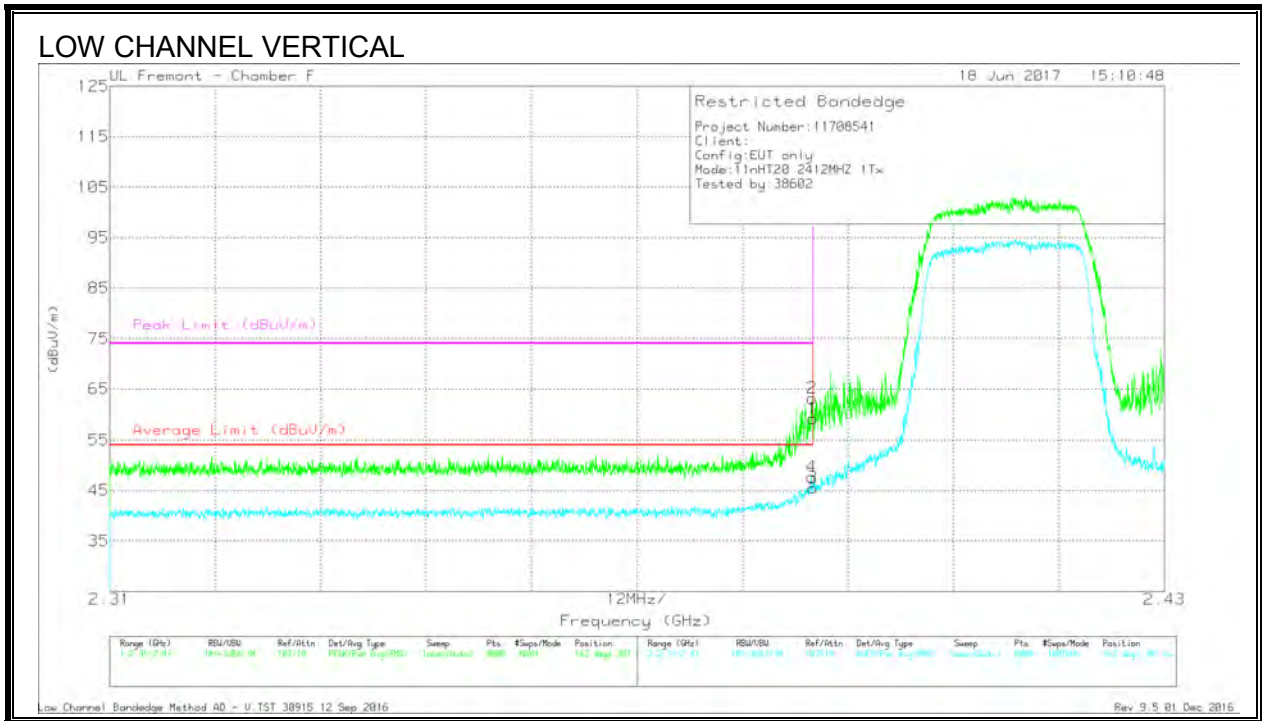
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

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

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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	48.35	Pk	31.9	-21	59.25	-	-	74	-14.75	162	387	V
2	* 2.39	52.33	Pk	31.9	-21	63.23	-	-	74	-10.77	162	387	V
3	* 2.39	34.61	RMS	31.9	-21	45.51	54	-8.49	-	-	162	387	V
4	* 2.39	36.82	RMS	31.9	-21	47.72	54	-6.28	-	-	162	387	V

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

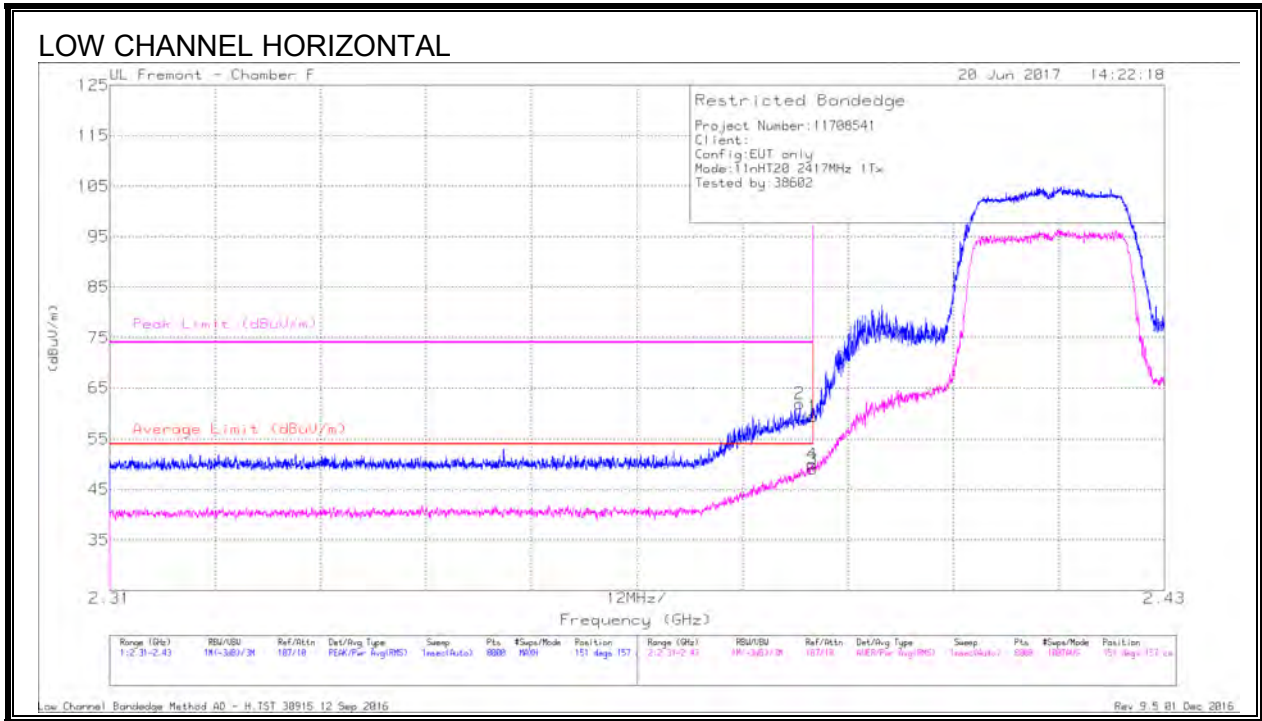
Pk - Peak detector

RMS - RMS detection

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

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AUTHORIZED BANDEDGE (LOW CHANNEL, CH 2)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	* 2.39	48.62	Pk	31.9	-21	59.52	-	-	74	-14.48	151	157	H
2	* 2.389	51.01	Pk	31.9	-20.9	62.01	-	-	74	-11.99	151	157	H
3	* 2.39	38.2	RMS	31.9	-21	49.1	54	-4.9	-	-	151	157	H
4	* 2.39	39.04	RMS	31.9	-21	50.14	54	-3.86	-	-	151	157	H

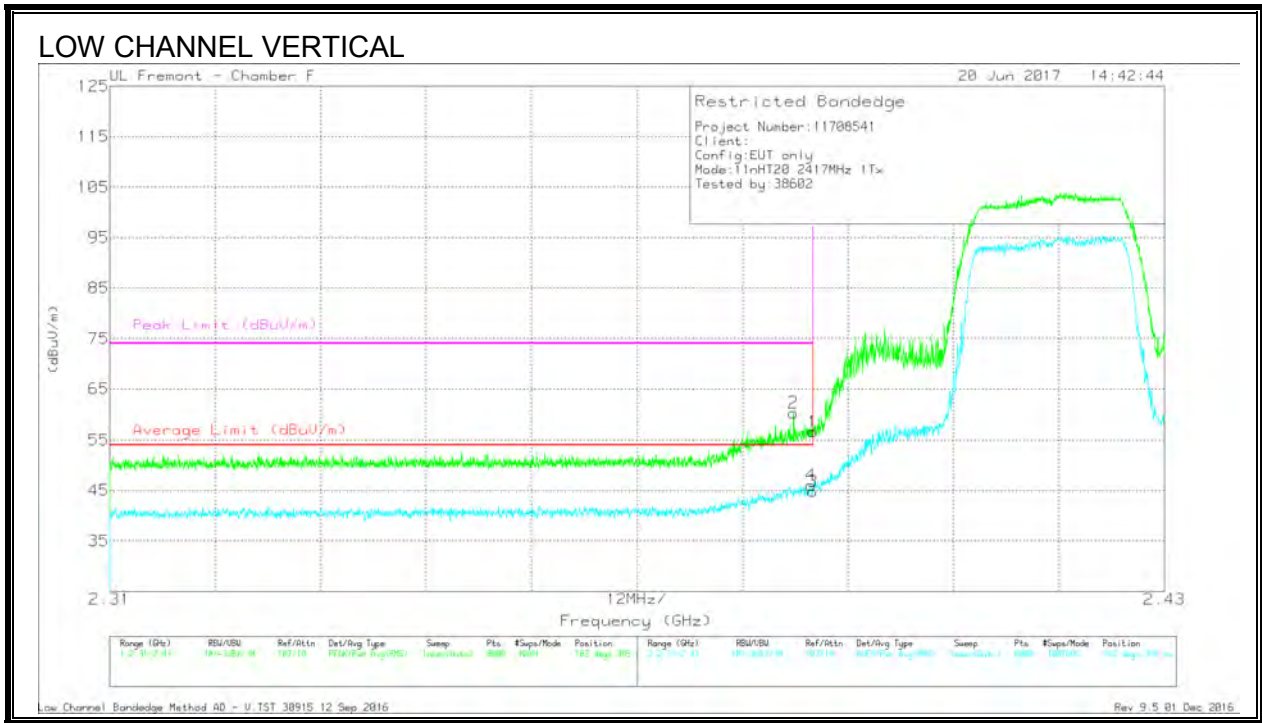
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	45.77	Pk	31.9	-21	56.67	-	-	74	-17.33	182	395	V
2	* 2.388	49.35	Pk	31.9	-20.9	60.35	-	-	74	-13.65	182	395	V
3	* 2.39	33.91	RMS	31.9	-21	44.81	54	-9.19	-	-	182	395	V
4	* 2.39	35.17	RMS	31.9	-21	46.07	54	-7.93	-	-	182	395	V

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

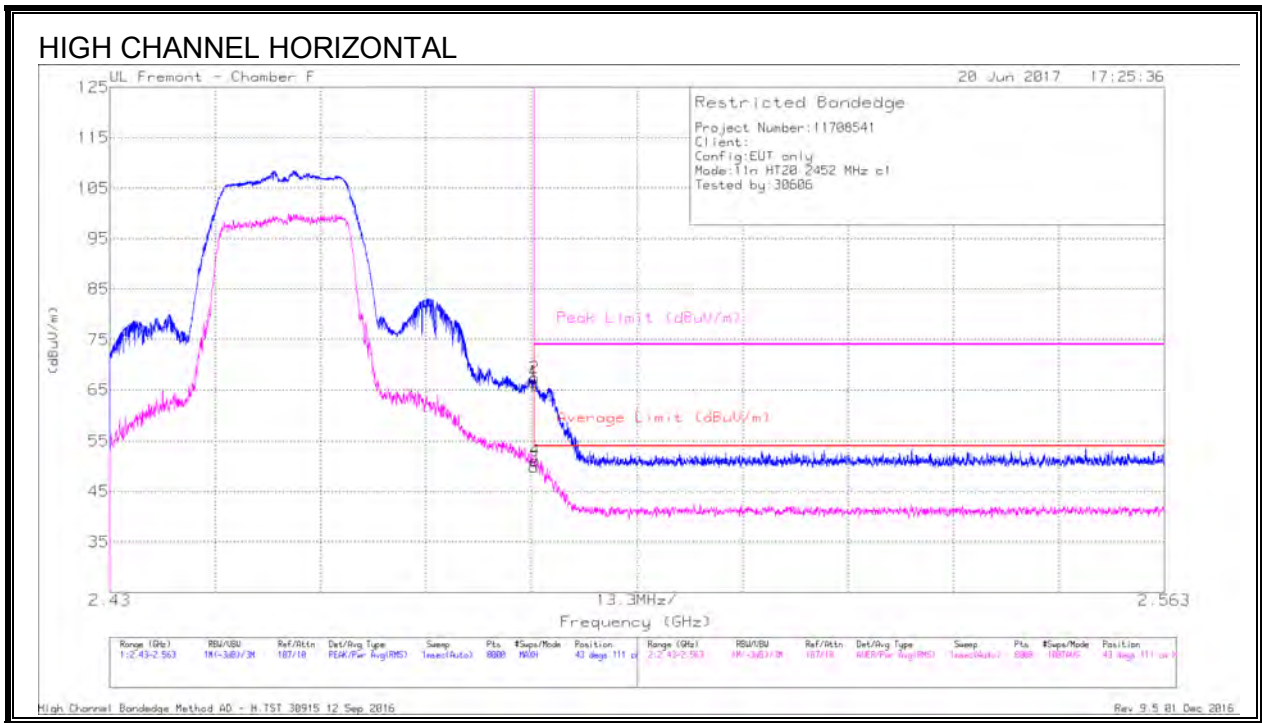
Pk - Peak detector

RMS - RMS detection

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

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AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 9)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	55.52	Pk	32.1	-21	66.62	-	-	74	-7.38	43	111	H
2	* 2.484	56.3	Pk	32.1	-21	67.4	-	-	74	-6.6	43	111	H
3	* 2.484	38.65	RMS	32.1	-21	49.75	54	-4.25	-	-	43	111	H
4	* 2.484	40.1	RMS	32.1	-21	51.2	54	-2.8	-	-	43	111	H

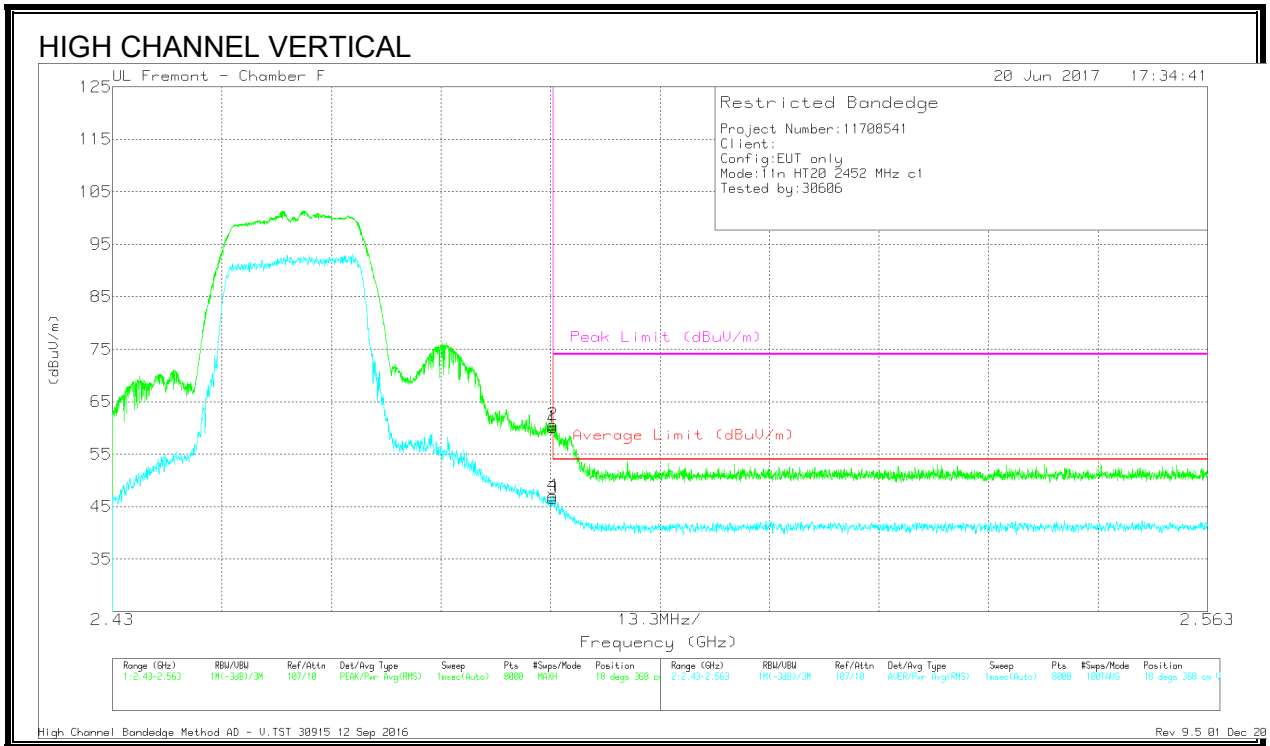
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

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

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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	49.05	Pk	32.1	-21	60.15	-	-	74	-13.85	18	368	V
2	* 2.484	49.51	Pk	32.1	-21	60.61	-	-	74	-13.39	18	368	V
3	* 2.484	35.43	RMS	32.1	-21	46.53	54	-7.47	-	-	18	368	V
4	* 2.484	35.91	RMS	32.1	-21	47.01	54	-6.99	-	-	18	368	V

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

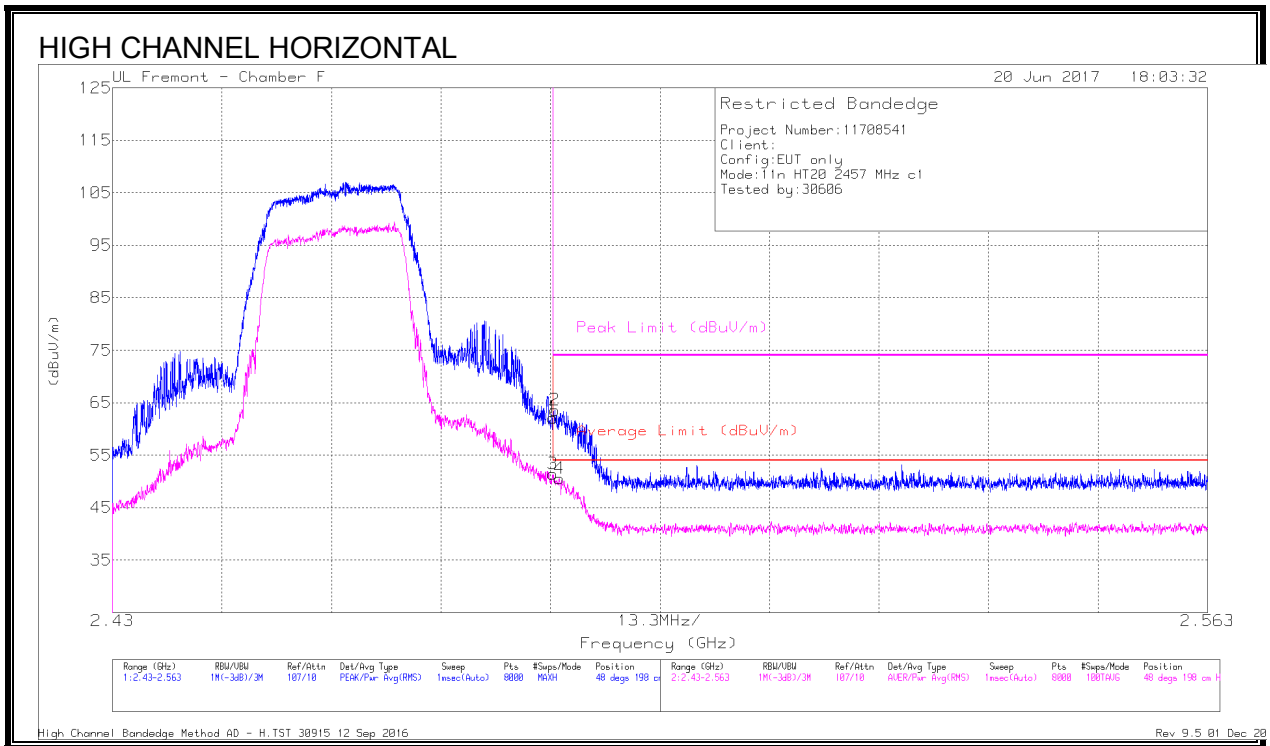
Pk - Peak detector

RMS - RMS detection

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

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AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 10)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	50.97	Pk	32.1	-21	62.07	-	-	74	-11.93	48	198	H
2	* 2.484	52.44	Pk	32.1	-21	63.54	-	-	74	-10.46	48	198	H
3	* 2.484	40.33	RMS	32.1	-21	51.43	54	-2.57	-	-	48	198	H
4	* 2.484	39.33	RMS	32.2	-21	50.53	54	-3.47	-	-	48	198	H

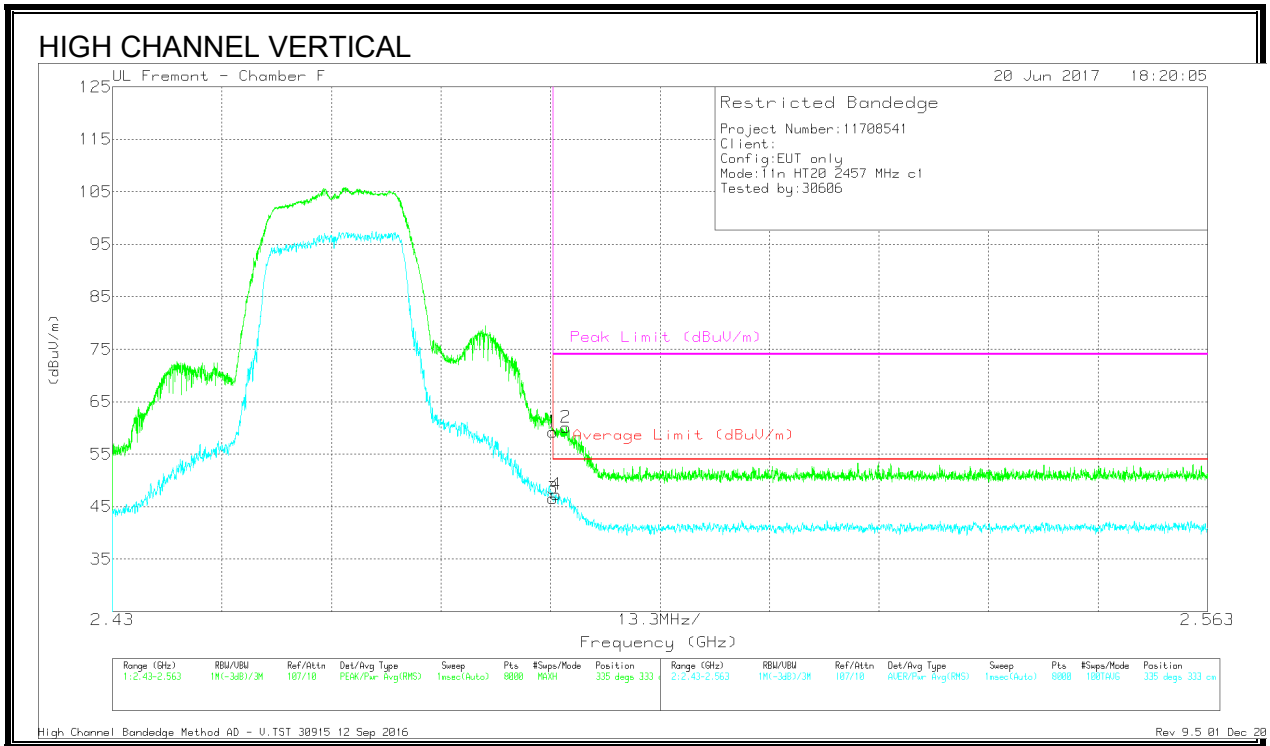
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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 T119 (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	48.11	Pk	32.1	-21	59.21	-	-	74	-14.79	335	333	V
2	* 2.485	48.92	Pk	32.2	-21	60.12	-	-	74	-13.88	335	333	V
3	* 2.484	35.42	RMS	32.1	-21	46.52	54	-7.48	-	-	335	333	V
4	* 2.484	36.16	RMS	32.2	-21	47.36	54	-6.64	-	-	335	333	V

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

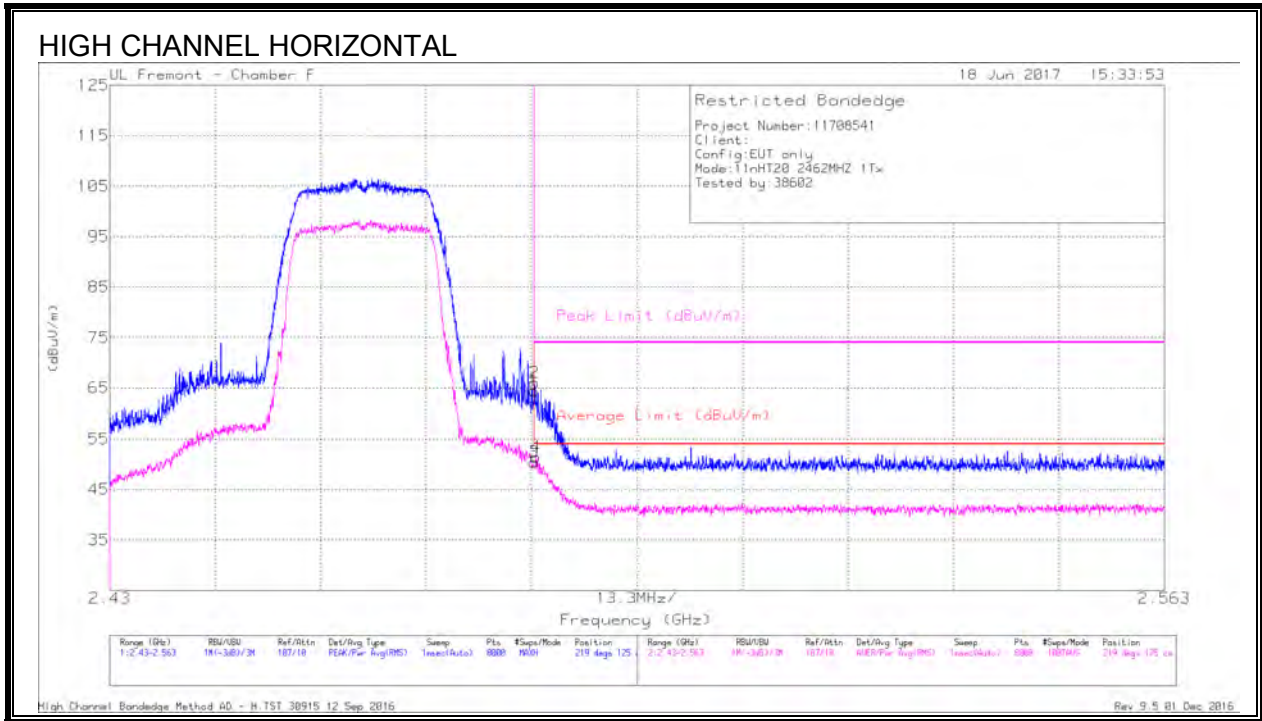
Pk - Peak detector

RMS - RMS detection

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

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AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 11)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	53.34	Pk	32.1	-21	64.44	-	-	74	-9.56	219	125	H
2	* 2.484	54.9	Pk	32.1	-21	66	-	-	74	-8	219	125	H
3	* 2.484	39.28	RMS	32.1	-21	50.38	54	-3.62	-	-	219	125	H
4	* 2.484	40.3	RMS	32.1	-21	51.4	54	-2.6	-	-	219	125	H

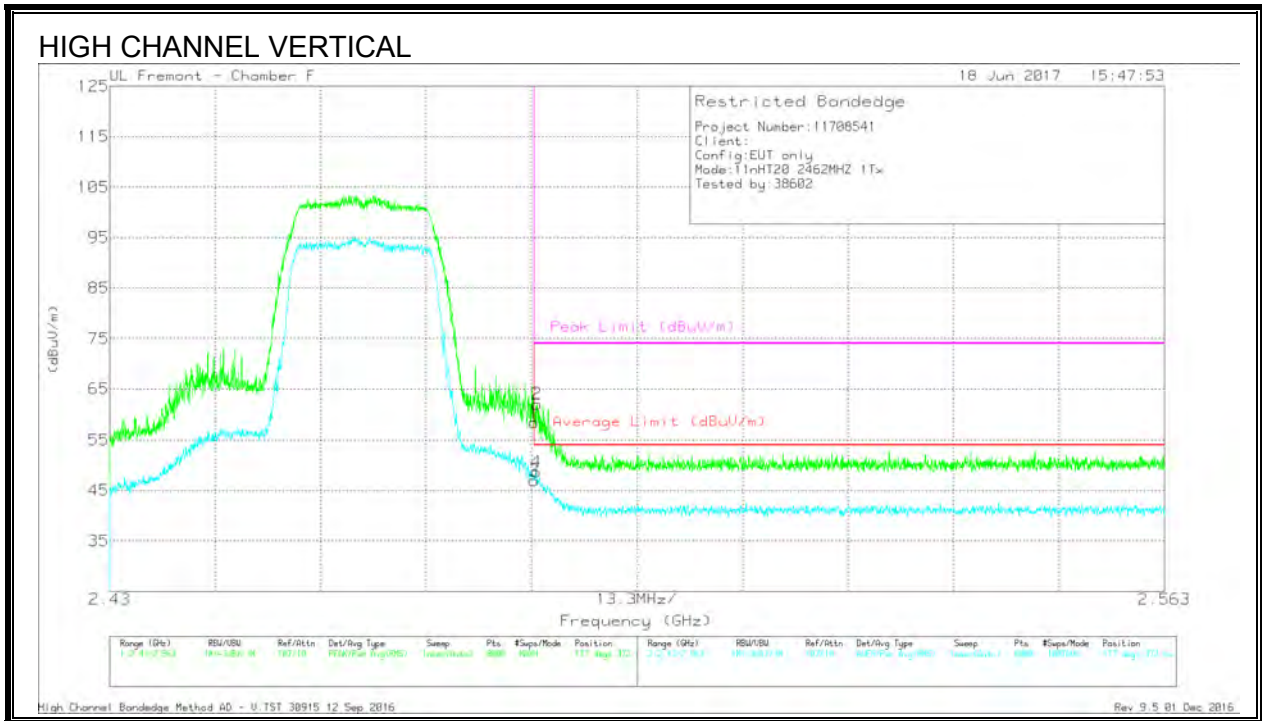
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

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

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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	47.42	Pk	32.1	-21	58.52	-	-	74	-15.48	177	372	V
2	* 2.484	50.88	Pk	32.2	-21	62.08	-	-	74	-11.92	177	372	V
3	* 2.484	35.85	RMS	32.1	-21	46.95	54	-7.05	-	-	177	372	V
4	* 2.484	37.54	RMS	32.1	-21	48.64	54	-5.36	-	-	177	372	V

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

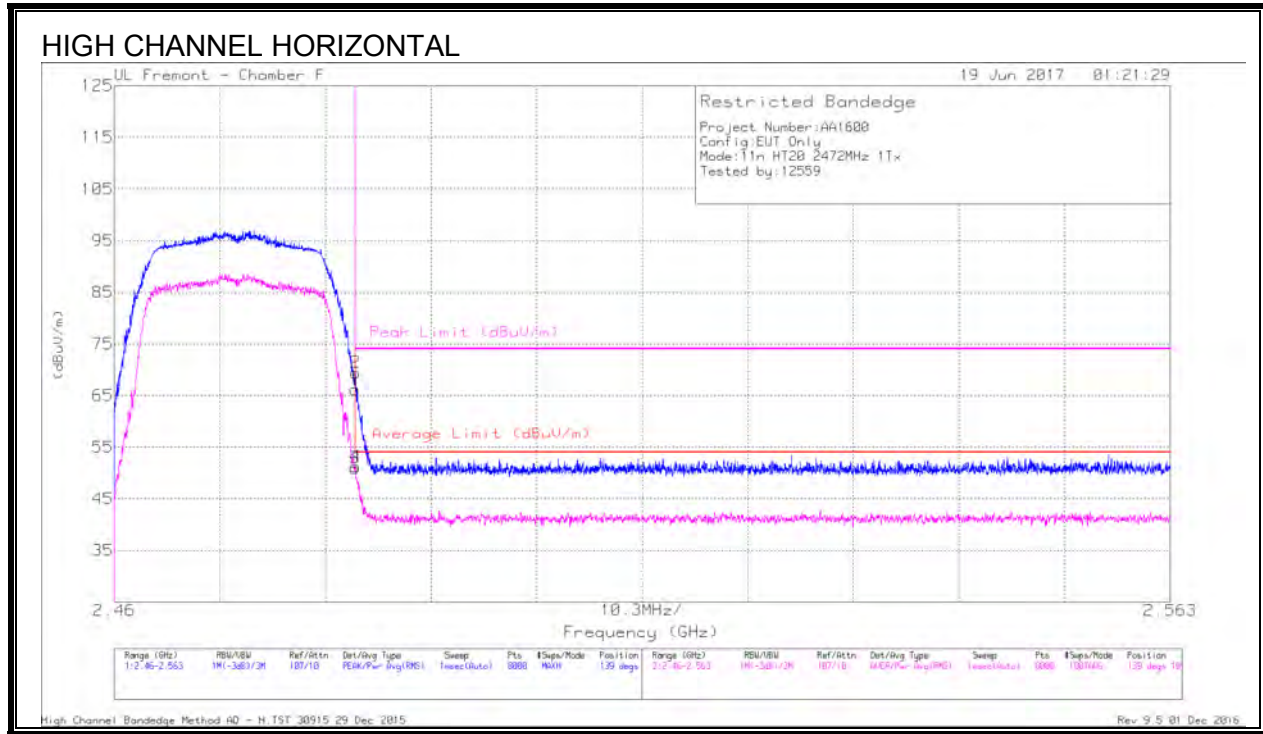
Pk - Peak detector

RMS - RMS detection

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

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AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 13)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	55.08	Pk	32.1	-21	66.18	-	-	74	-7.82	139	109	H
2	* 2.484	58.33	Pk	32.1	-21	69.43	-	-	74	-4.57	139	109	H
3	* 2.484	39.84	RMS	32.1	-21	50.94	54	-3.06	-	-	139	109	H
4	* 2.484	40.12	RMS	32.1	-21	51.22	54	-2.78	-	-	139	109	H

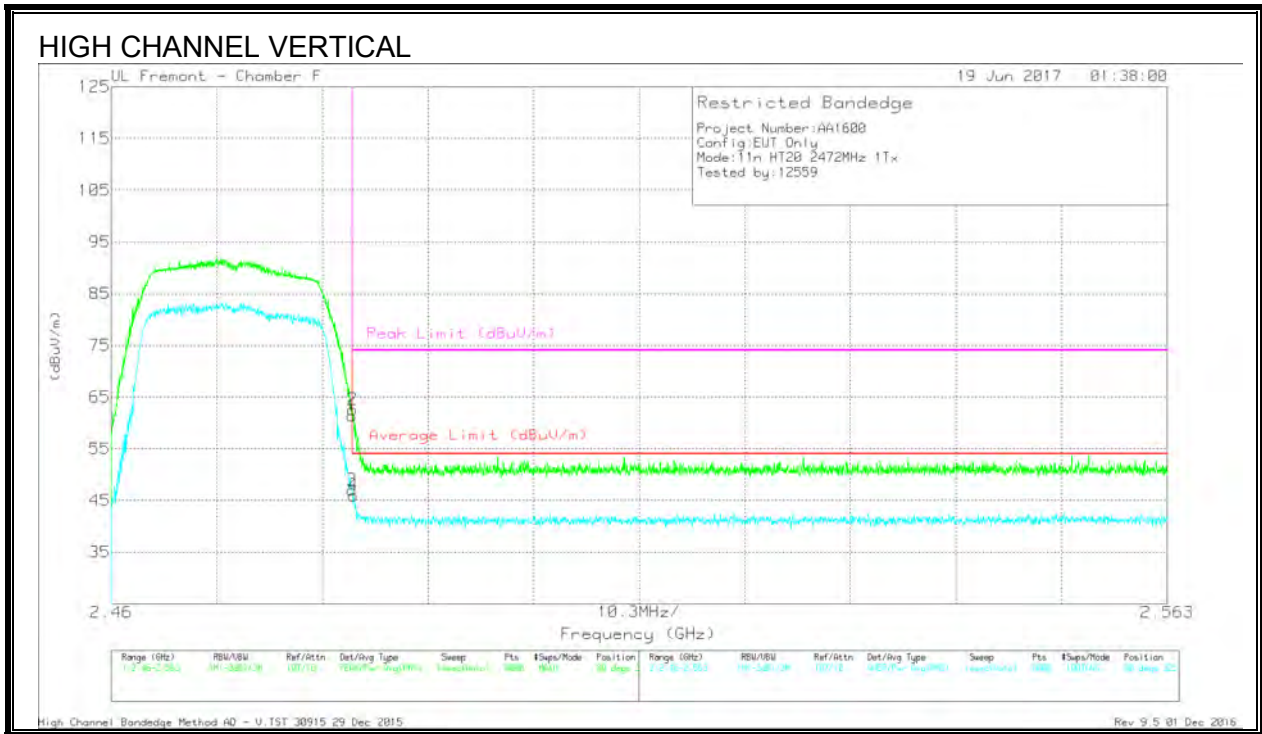
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

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

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Marker	Frequ ncy (GHz)	Meter Readin g (dBuV)	Det	AF T119 (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)	Polarit y
1	* 2.484	50.24	Pk	32.1	-21	61.34	-	-	74	-12.66	80	325	V
2	* 2.484	51.49	Pk	32.1	-21	62.59	-	-	74	-11.41	80	325	V
3	* 2.484	35.92	RMS	32.1	-21	47.02	54	-6.98	-	-	80	325	V
4	* 2.484	34.86	RMS	32.1	-21	45.96	54	-8.04	-	-	80	325	V

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

Pk - Peak detector

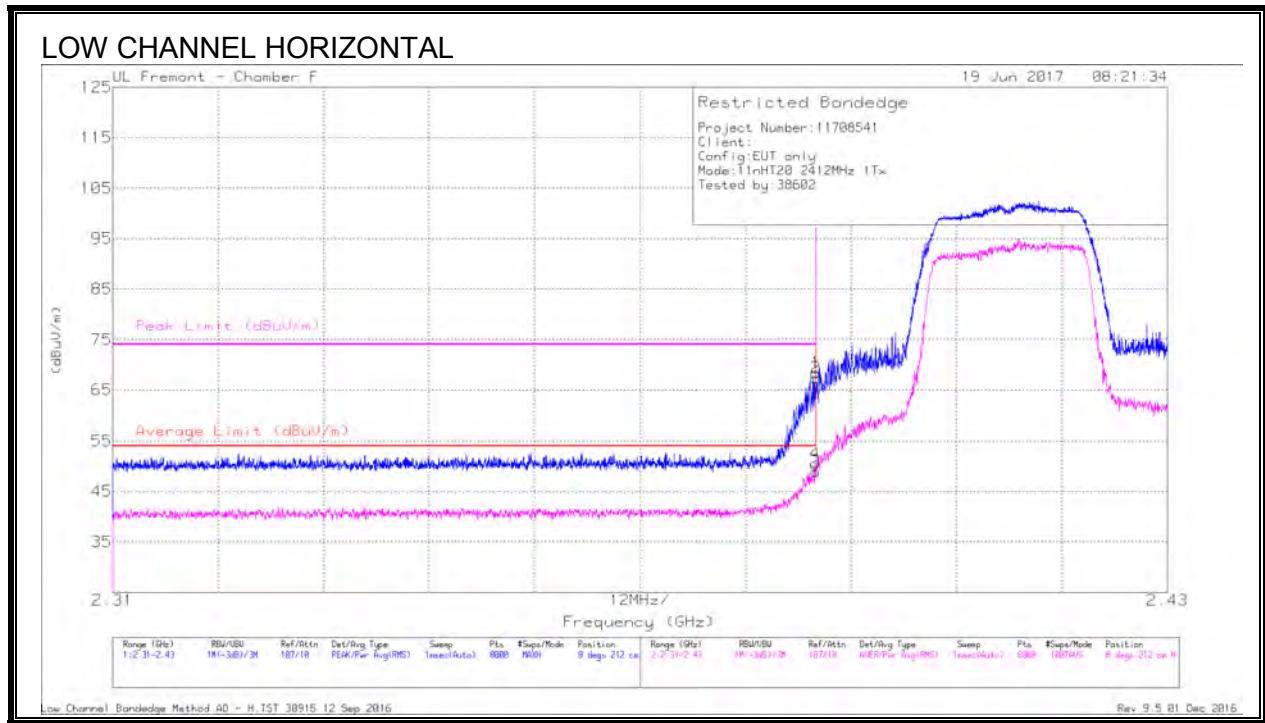
RMS - RMS detection

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

Rev 9.5 01 Dec 2016

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

AUTHORIZED BANDEDGE (LOW CHANNEL, CH 1)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	57.47	Pk	31.9	-21	68.37	-	-	74	-5.63	8	212	H
2	* 2.39	56.55	Pk	31.9	-21	67.45	-	-	74	-6.55	8	212	H
3	* 2.39	38.02	RMS	31.9	-21	48.92	54	-5.08	-	-	8	212	H
4	* 2.39	39.69	RMS	31.9	-21	50.59	54	-3.41	-	-	8	212	H

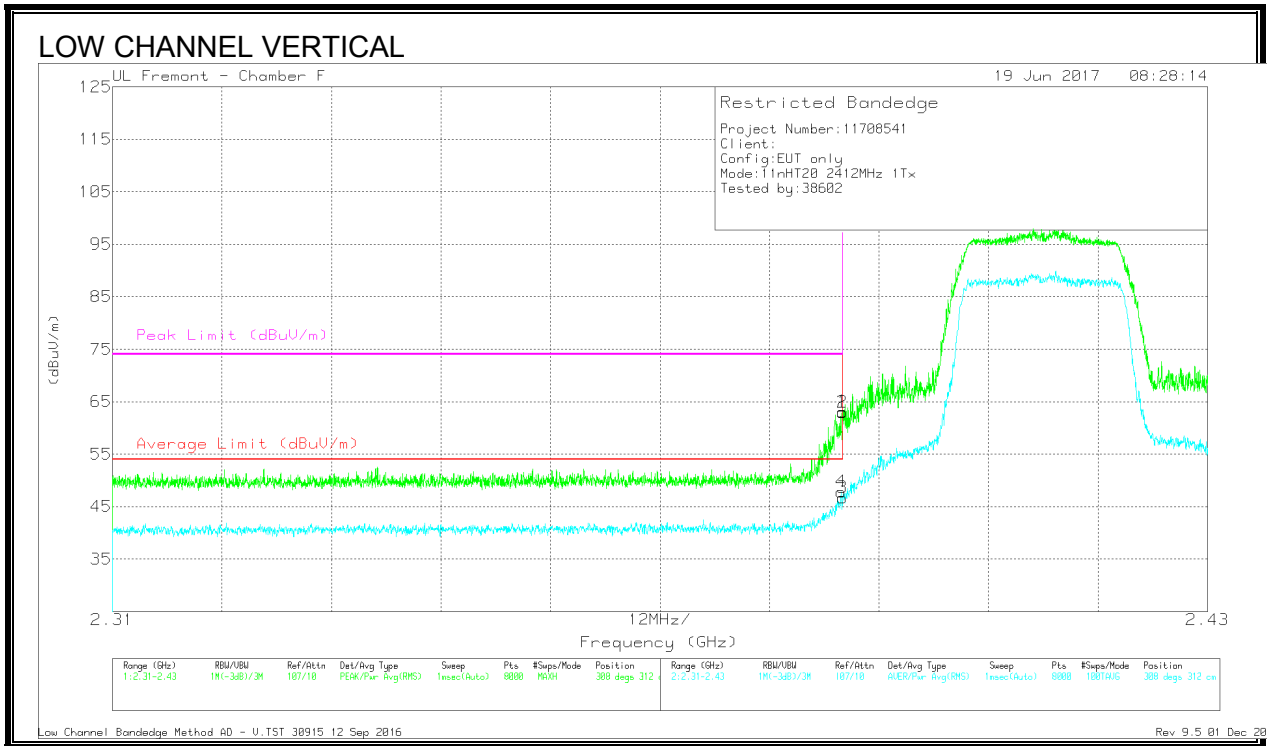
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

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

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Marker	Frequ ncy (GHz)	Meter Readin g (dBuV)	Det	AF T119 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Correct ed Readin g (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimet h (Degs)	Height (cm)	Polarity
1	* 2.39	52.17	Pk	31.9	-21	63.07	-	-	74	-10.93	308	312	V
2	* 2.39	52.03	Pk	31.9	-21	62.93	-	-	74	-11.07	308	312	V
3	* 2.39	35.81	RMS	31.9	-21	46.71	54	-7.29	-	-	308	312	V
4	* 2.39	36.88	RMS	31.9	-21	47.78	54	-6.22	-	-	308	312	V

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

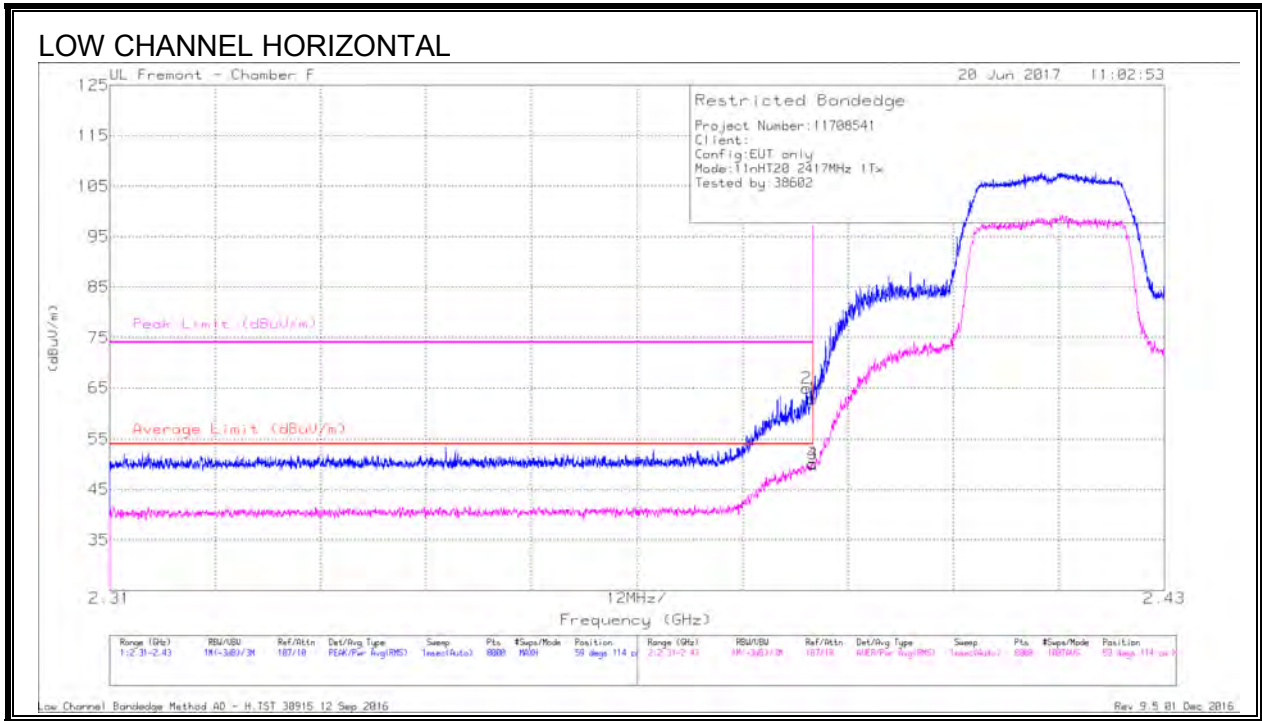
Pk - Peak detector

RMS - RMS detection

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

Rev 9.5 01 Dec 2016

AUTHORIZED BANDEDGE (LOW CHANNEL, CH 2)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	* 2.39	52.04	Pk	31.9	-21	62.94	-	-	74	-11.06	59	114	H
2	* 2.389	53.95	Pk	31.9	-20.9	64.95	-	-	74	-9.05	59	114	H
3	* 2.39	39.2	RMS	31.9	-21	50.1	54	-3.9	-	-	59	114	H
4	* 2.39	39.49	RMS	31.9	-21	50.39	54	-3.61	-	-	59	114	H

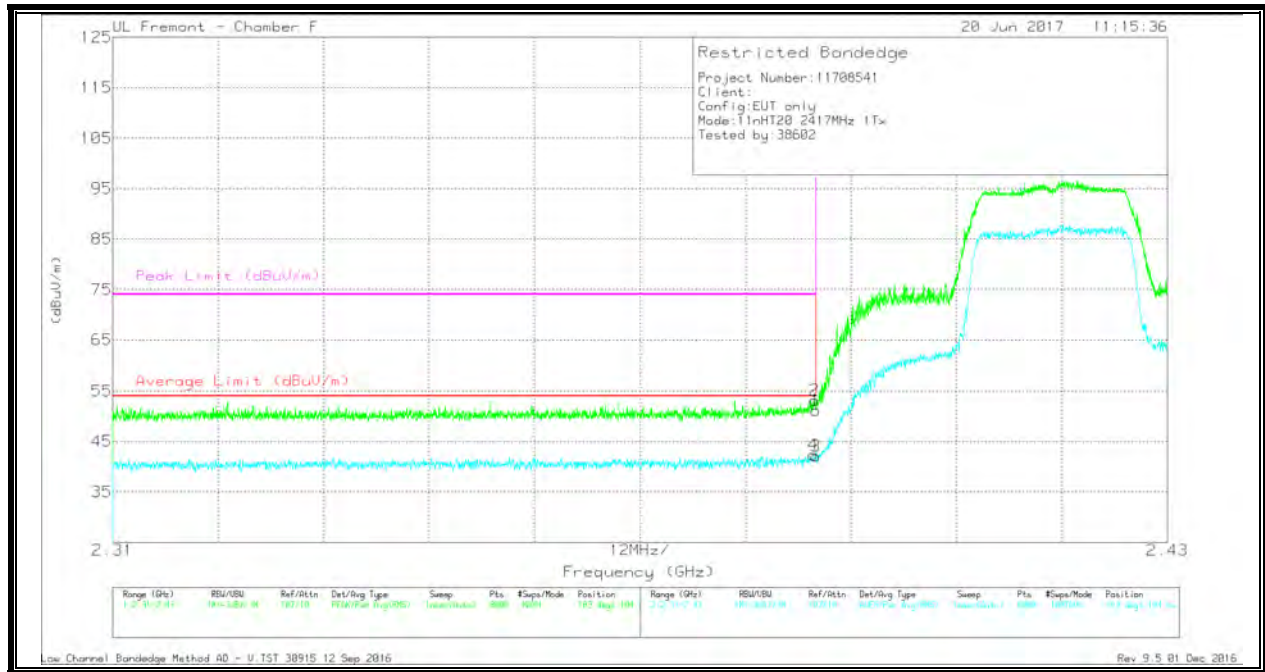
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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 T119 (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	* 2.39	40.22	Pk	31.9	-21	51.12	-	-	74	-22.88	183	104	V
2	* 2.39	42.21	Pk	31.9	-21	53.11	-	-	74	-20.89	183	104	V
3	* 2.39	31.16	RMS	31.9	-21	42.06	54	-11.94	-	-	183	104	V
4	* 2.39	31.46	RMS	31.9	-21	42.36	54	-11.64	-	-	183	104	V

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

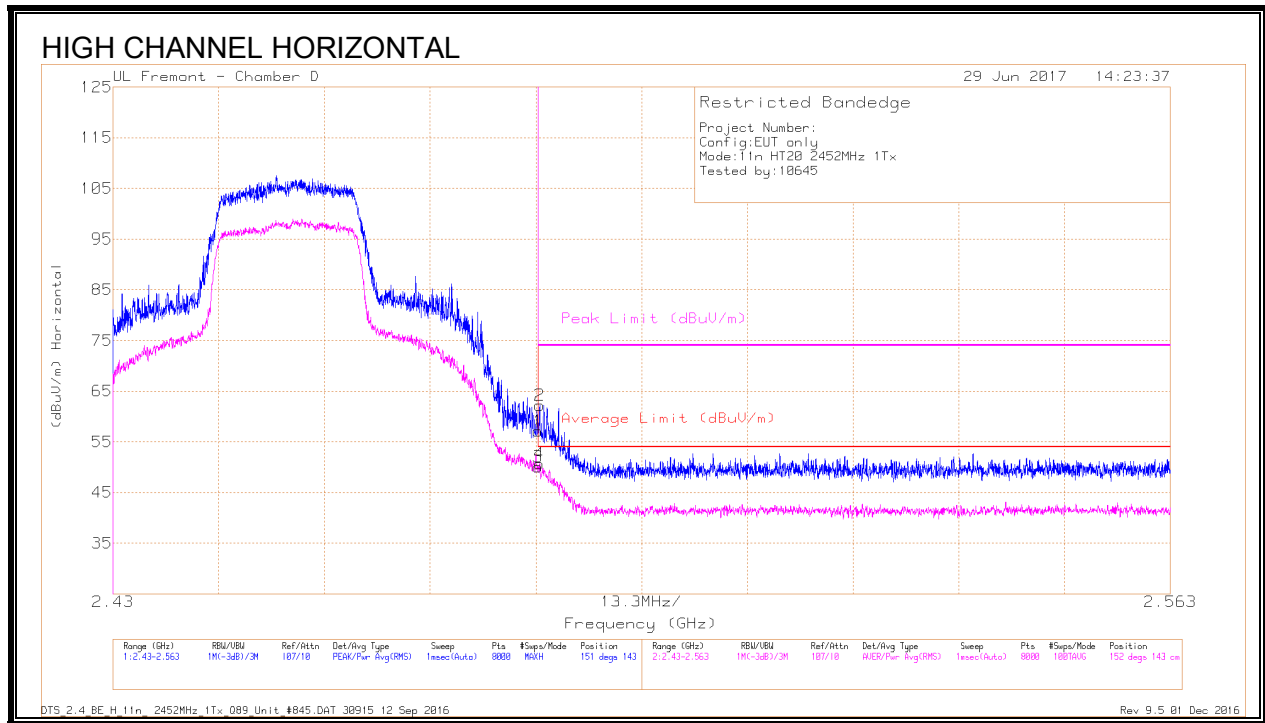
Pk - Peak detector

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)

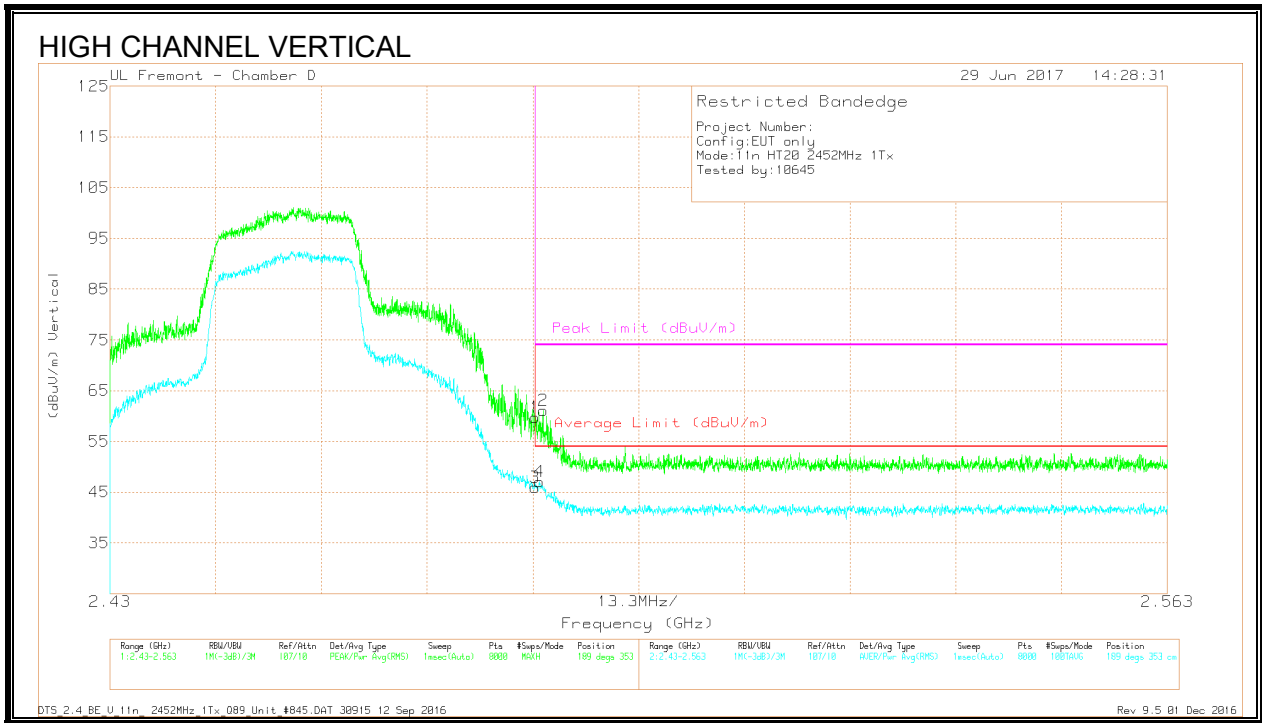


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
1	* 2.484	45.38	Pk	32.5	-20.8	57.08	-	-	74	-16.92	151	143	H
2	* 2.484	50.52	Pk	32.5	-20.8	62.22	-	-	74	-11.78	151	143	H
3	* 2.484	38.34	RMS	32.5	-20.8	50.04	54	-3.96	-	-	152	143	H
4	* 2.484	39.02	RMS	32.5	-20.8	50.72	54	-3.28	-	-	152	143	H

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

Pk - Peak detector

RMS - RMS detection



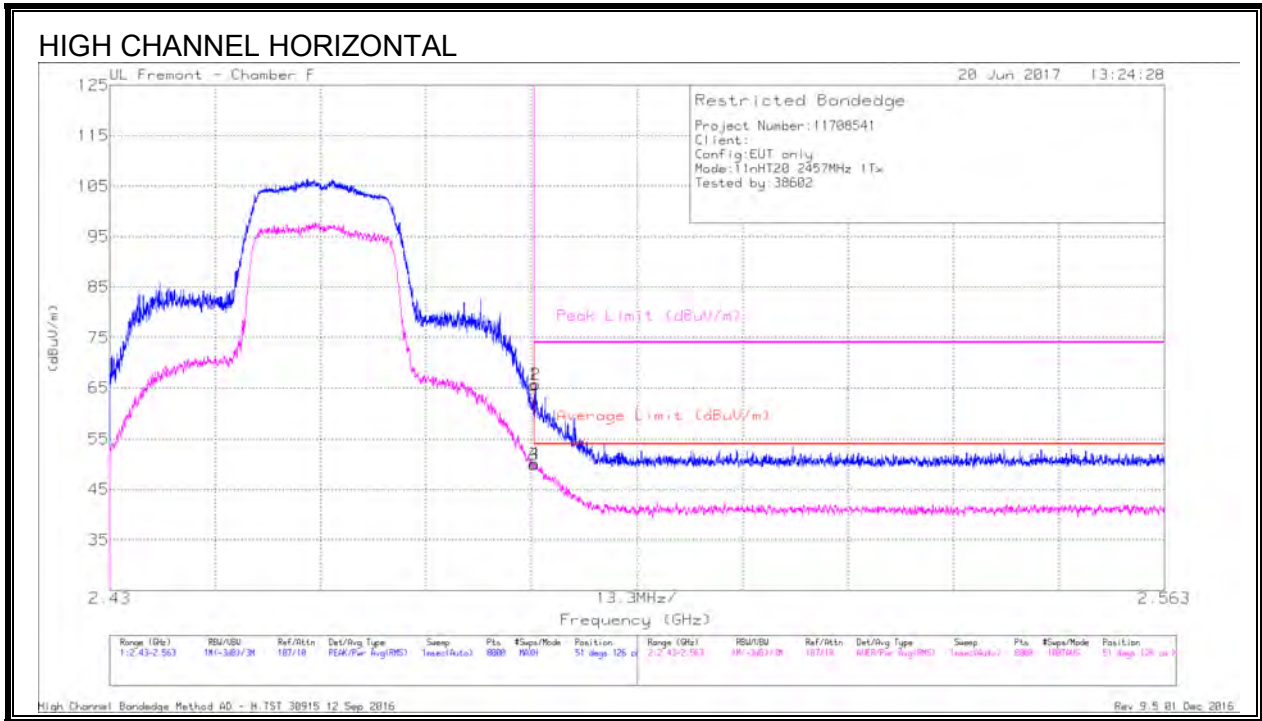
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
1	* 2.484	48.04	Pk	32.5	-20.8	59.74	-	-	74	-14.26	189	353	V
2	* 2.484	49.27	Pk	32.6	-20.8	61.07	-	-	74	-12.93	189	353	V
3	* 2.484	34.25	RMS	32.5	-20.8	45.95	54	-8.05	-	-	189	353	V
4	* 2.484	35.39	RMS	32.5	-20.8	47.09	54	-6.91	-	-	189	353	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 10)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	54.42	Pk	32.1	-21	65.52	-	-	74	-8.48	51	126	H
2	* 2.484	54.59	Pk	32.1	-21	65.69	-	-	74	-8.31	51	126	H
3	* 2.484	38.81	RMS	32.1	-21	49.91	54	-4.09	-	-	51	126	H
4	* 2.484	39.29	RMS	32.1	-21	50.39	54	-3.61	-	-	51	126	H

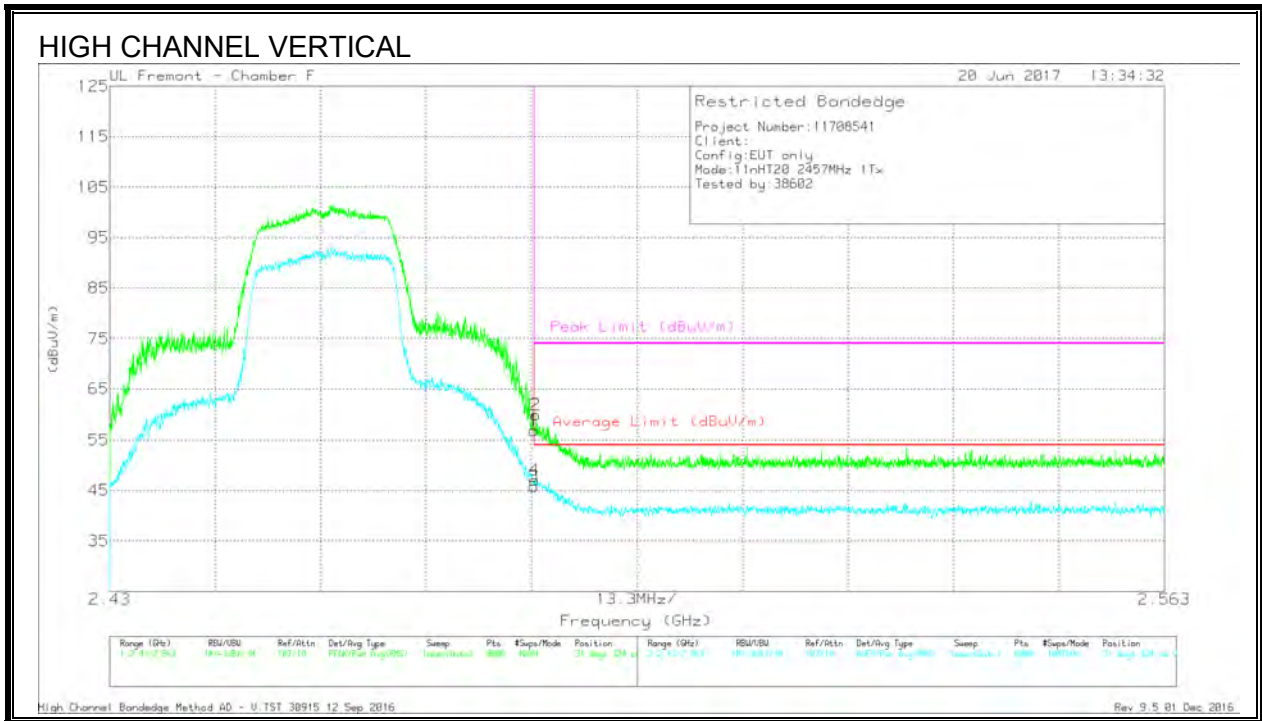
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	45.74	Pk	32.1	-21	56.84	-	-	74	-17.16	31	324	V
2	* 2.484	48.91	Pk	32.1	-21	60.01	-	-	74	-13.99	31	324	V
3	* 2.484	34.73	RMS	32.1	-21	45.83	54	-8.17	-	-	31	324	V
4	* 2.484	35.93	RMS	32.1	-21	47.03	54	-6.97	-	-	31	324	V

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

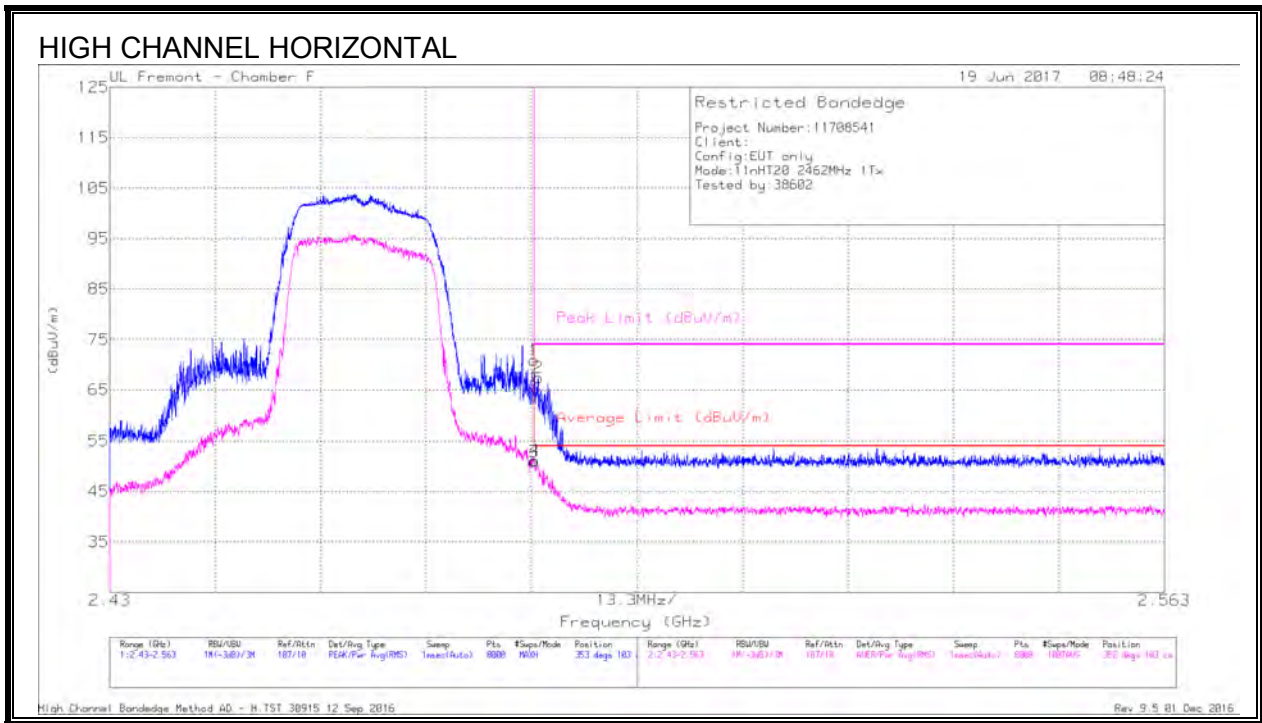
Pk - Peak detector

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 T119 (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	59.81	Pk	32.1	-21	70.91	-	-	74	-3.09	353	103	H
2	* 2.484	56.17	Pk	32.2	-21	67.37	-	-	74	-6.63	353	103	H
3	* 2.484	39.84	RMS	32.1	-21	50.94	54	-3.06	-	-	352	103	H
4	* 2.484	40.07	RMS	32.1	-21	51.17	54	-2.83	-	-	352	103	H

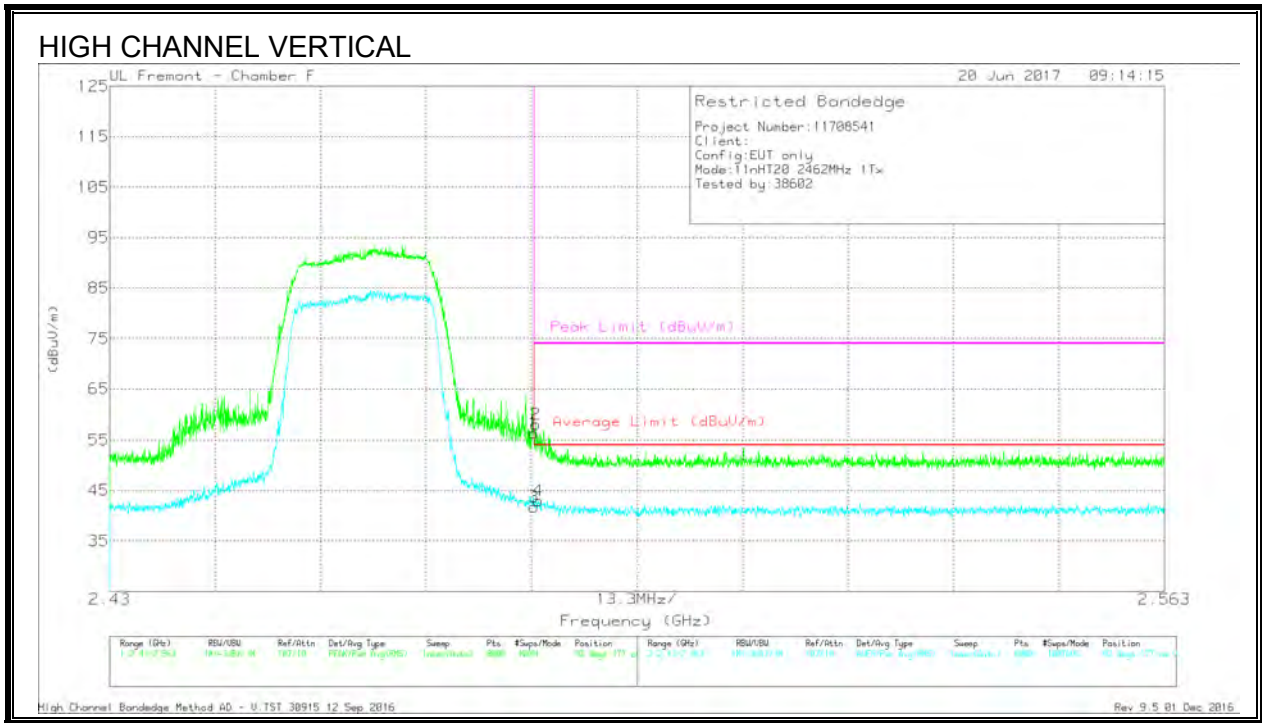
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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 T119 (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	45.33	Pk	32.1	-21	56.43	-	-	74	-17.57	92	177	V
2	* 2.484	46.99	Pk	32.1	-21	58.09	-	-	74	-15.91	92	177	V
3	* 2.484	30.58	RMS	32.1	-21	41.68	54	-12.32	-	-	92	177	V
4	* 2.484	31.75	RMS	32.2	-21	42.95	54	-11.05	-	-	92	177	V

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

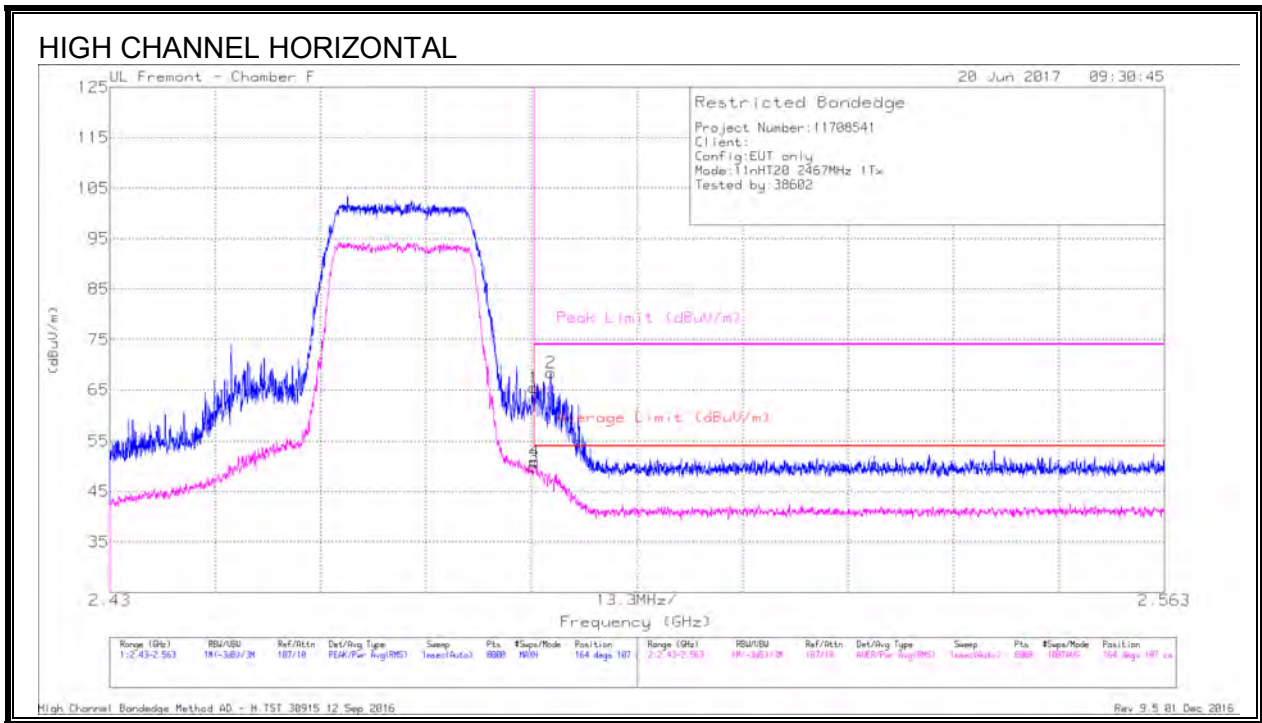
Pk - Peak detector

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	AF T119 (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	54.31	Pk	32.1	-21	65.41	-	-	74	-8.59	164	107	H
2	* 2.486	57.25	Pk	32.2	-21	68.45	-	-	74	-5.55	164	107	H
3	* 2.484	38.8	RMS	32.1	-21	49.9	54	-4.1	-	-	164	107	H
4	* 2.484	39.83	RMS	32.1	-21	50.93	54	-3.07	-	-	164	107	H

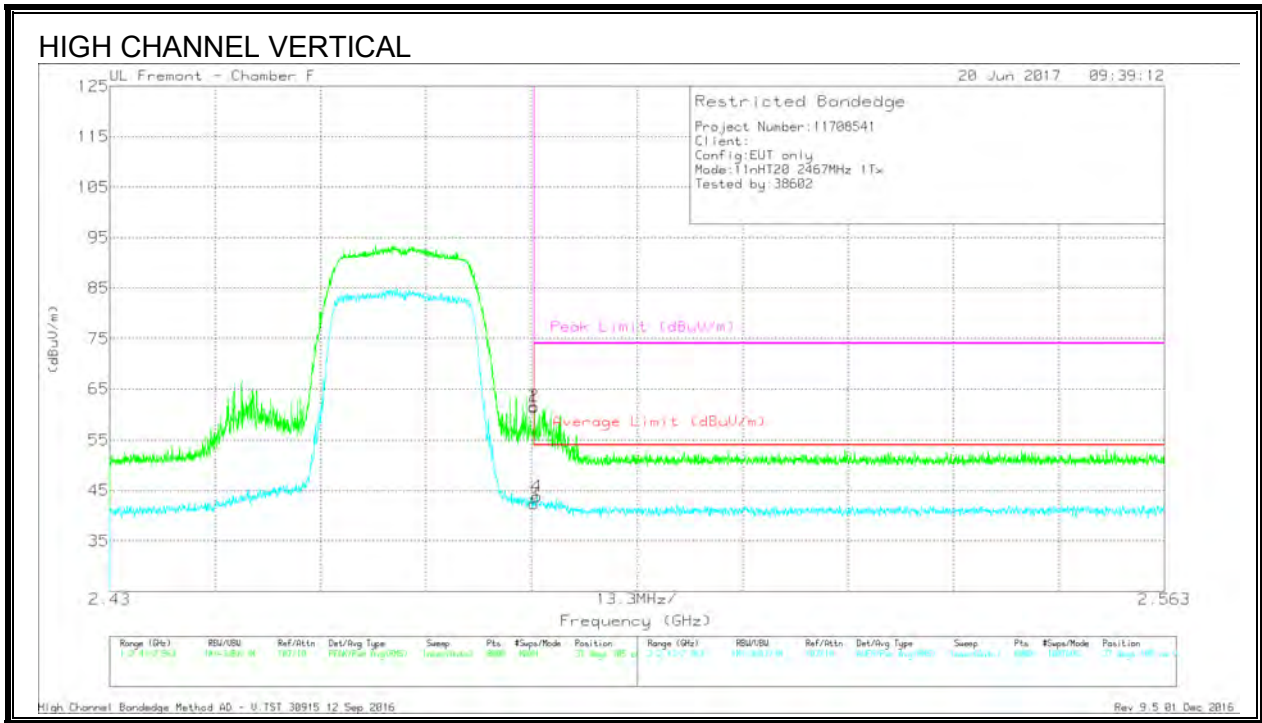
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

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

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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	50.35	Pk	32.1	-21	61.45	-	-	74	-12.55	37	105	V
2	* 2.484	50.64	Pk	32.1	-21	61.74	-	-	74	-12.26	37	105	V
3	* 2.484	31.29	RMS	32.1	-21	42.39	54	-11.61	-	-	37	105	V
4	* 2.484	32.64	RMS	32.2	-21	43.84	54	-10.16	-	-	37	105	V

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

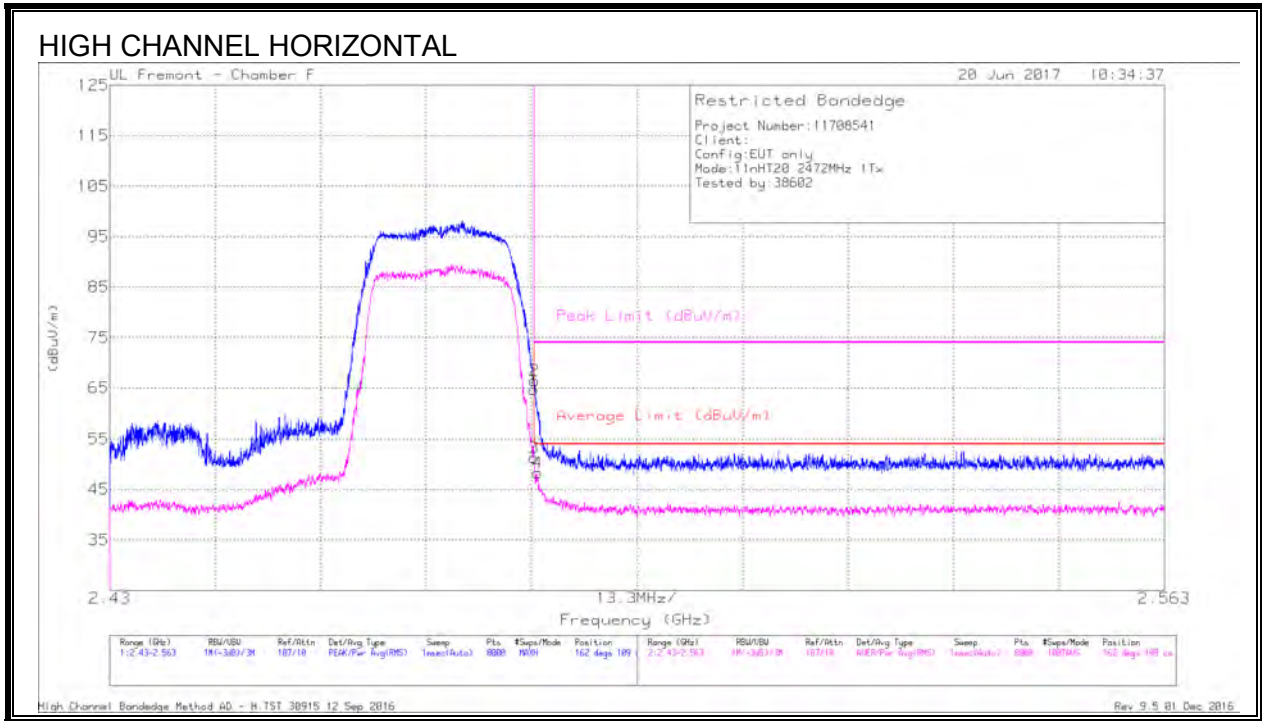
Pk - Peak detector

RMS - RMS detection

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

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AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 13)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	53.57	Pk	32.1	-21	64.67	-	-	74	-9.33	162	109	H
2	* 2.484	55.32	Pk	32.1	-21	66.42	-	-	74	-7.58	162	109	H
3	* 2.484	40.21	RMS	32.1	-21	51.31	54	-2.69	-	-	162	109	H
4	* 2.484	37.08	RMS	32.2	-21	48.28	54	-5.72	-	-	162	109	H

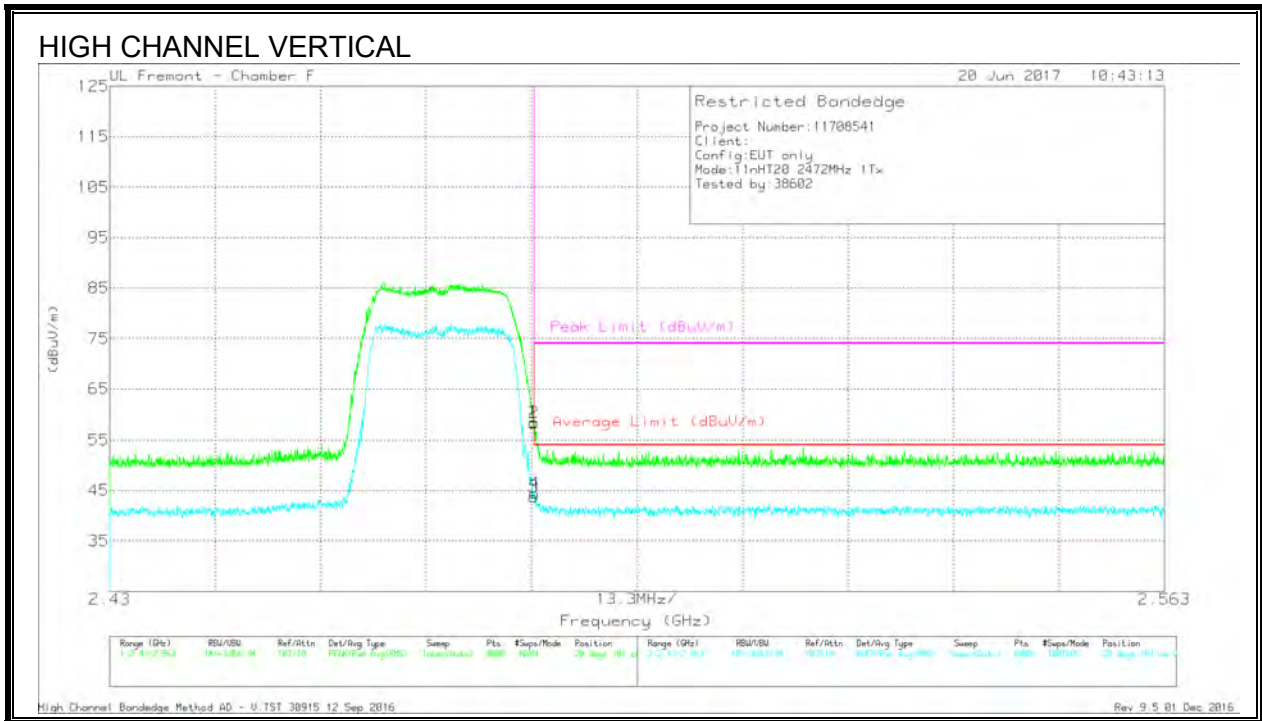
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

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

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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	47.23	Pk	32.1	-21	58.33	-	-	74	-15.67	20	101	V
2	* 2.484	47.39	Pk	32.1	-21	58.49	-	-	74	-15.51	20	101	V
3	* 2.484	32.67	RMS	32.1	-21	43.77	54	-10.23	-	-	20	101	V
4	* 2.484	33.34	RMS	32.1	-21	44.44	54	-9.56	-	-	20	101	V

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

Pk - Peak detector

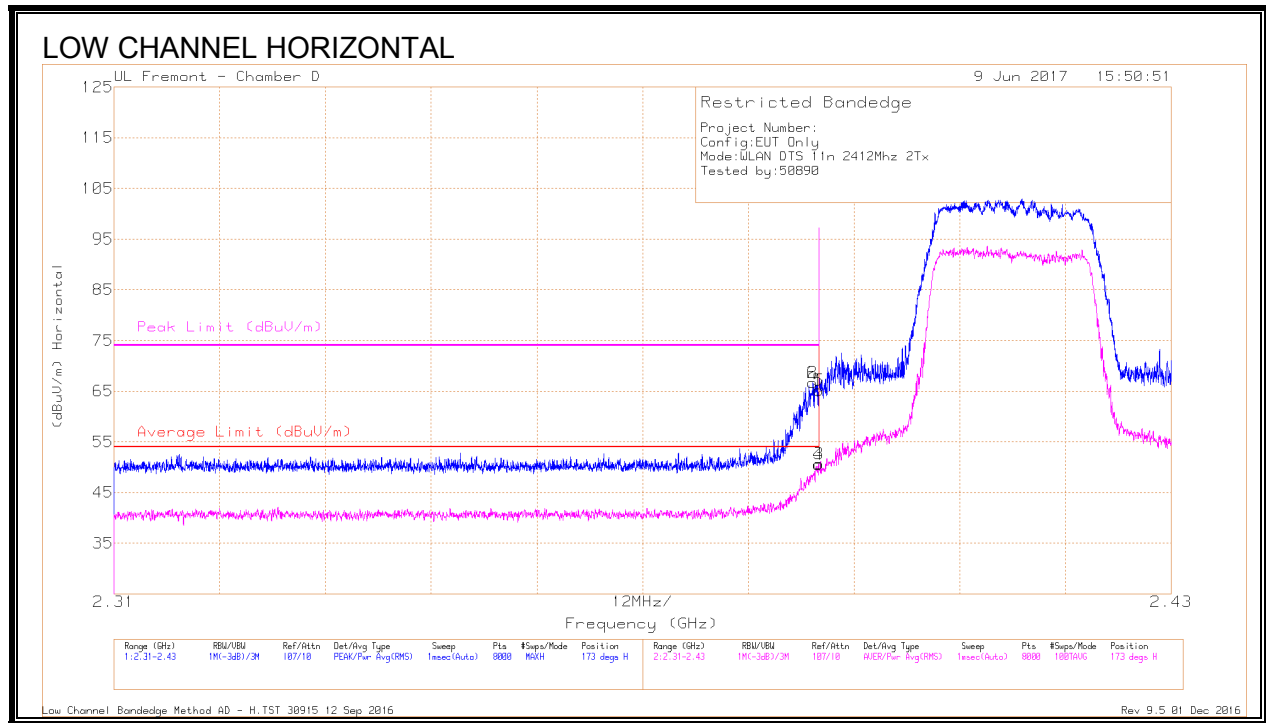
RMS - RMS detection

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)

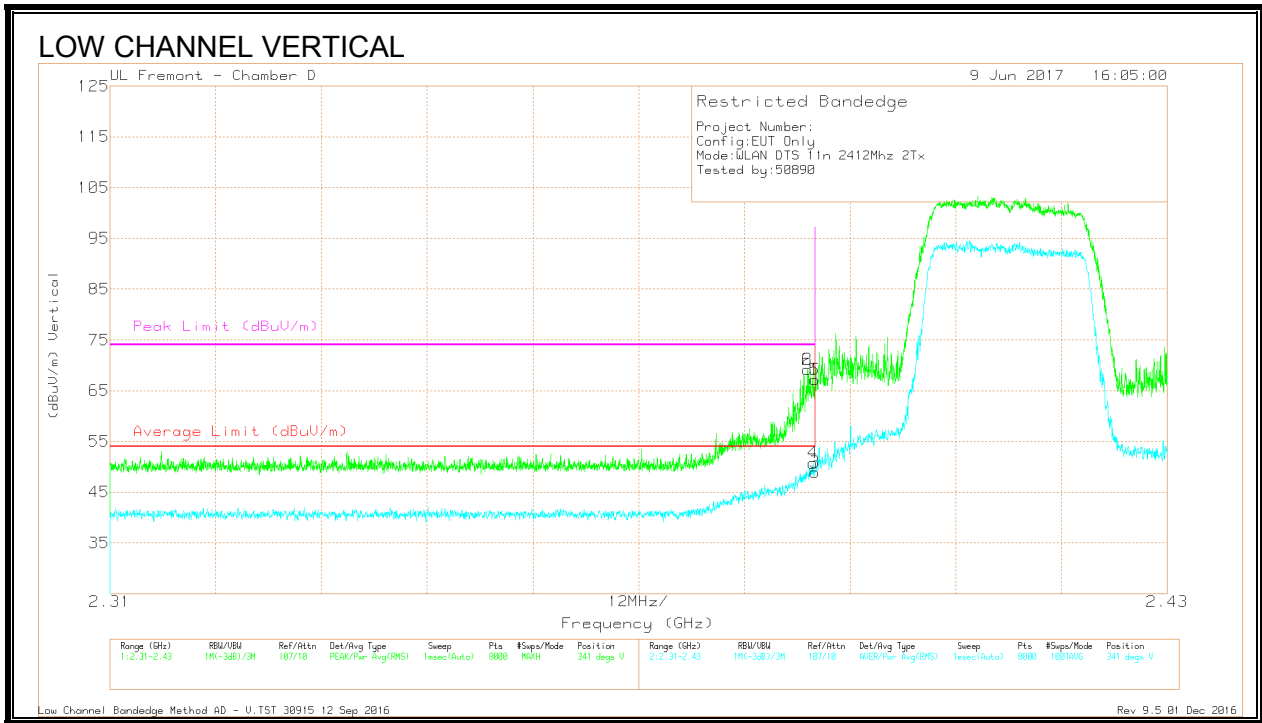


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
1	* 2.39	53.8	Pk	32.1	-20.7	65.2	-	-	74	-8.8	173	110	H
2	* 2.389	55.38	Pk	32.1	-20.8	66.68	-	-	74	-7.32	173	110	H
3	* 2.39	39.21	RMS	32.1	-20.7	50.61	54	-3.39	-	-	173	110	H
4	* 2.39	39.14	RMS	32.1	-20.7	50.54	54	-3.46	-	-	173	110	H

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

Pk - Peak detector

RMS - RMS detection



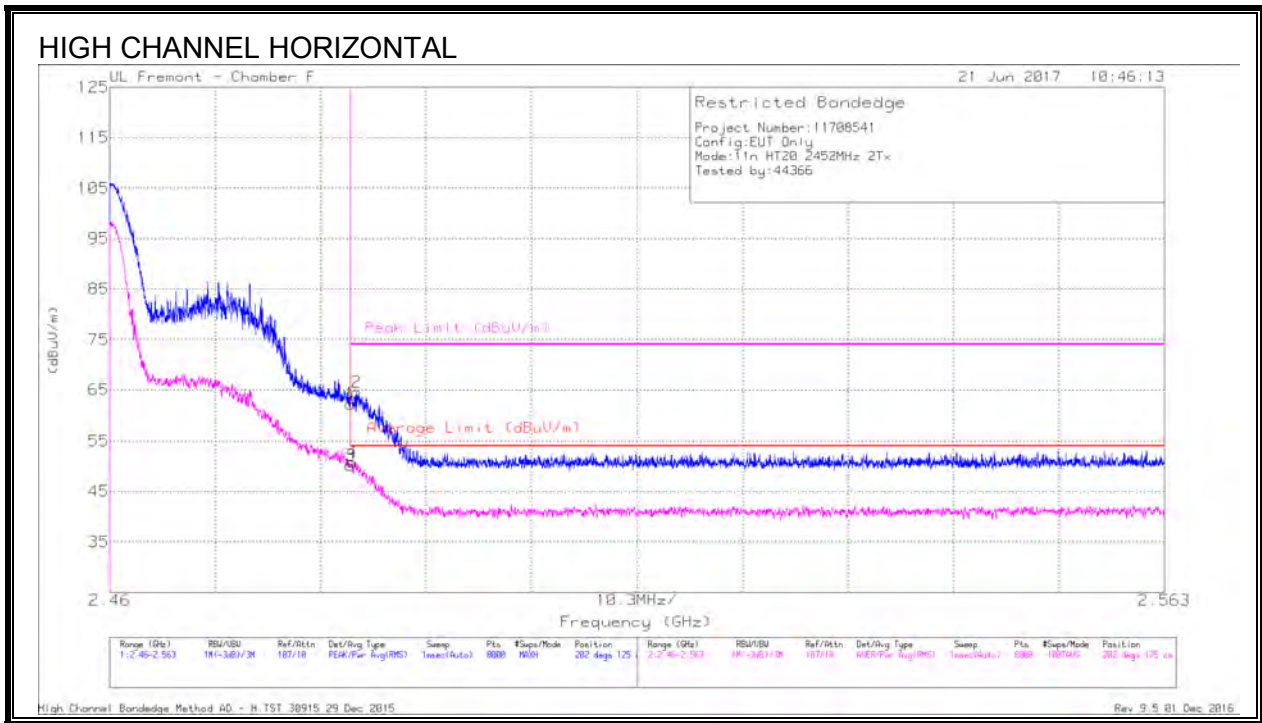
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	55.72	Pk	32.1	-20.7	67.12	-	-	74	-6.88	341	389	V
2	* 2.389	57.91	Pk	32.1	-20.8	69.21	-	-	74	-4.79	341	389	V
3	* 2.39	37.48	RMS	32.1	-20.7	48.88	54	-5.12	-	-	341	389	V
4	* 2.39	39.43	RMS	32.1	-20.8	50.73	54	-3.27	-	-	341	389	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 9)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	51.24	Pk	32.1	-21	62.34	-	-	74	-11.66	202	125	H
2	* 2.484	53.39	Pk	32.2	-21	64.59	-	-	74	-9.41	202	125	H
3	* 2.484	39.04	RMS	32.1	-21	50.14	54	-3.86	-	-	202	125	H
4	* 2.484	39.66	RMS	32.1	-21	50.76	54	-3.24	-	-	202	125	H

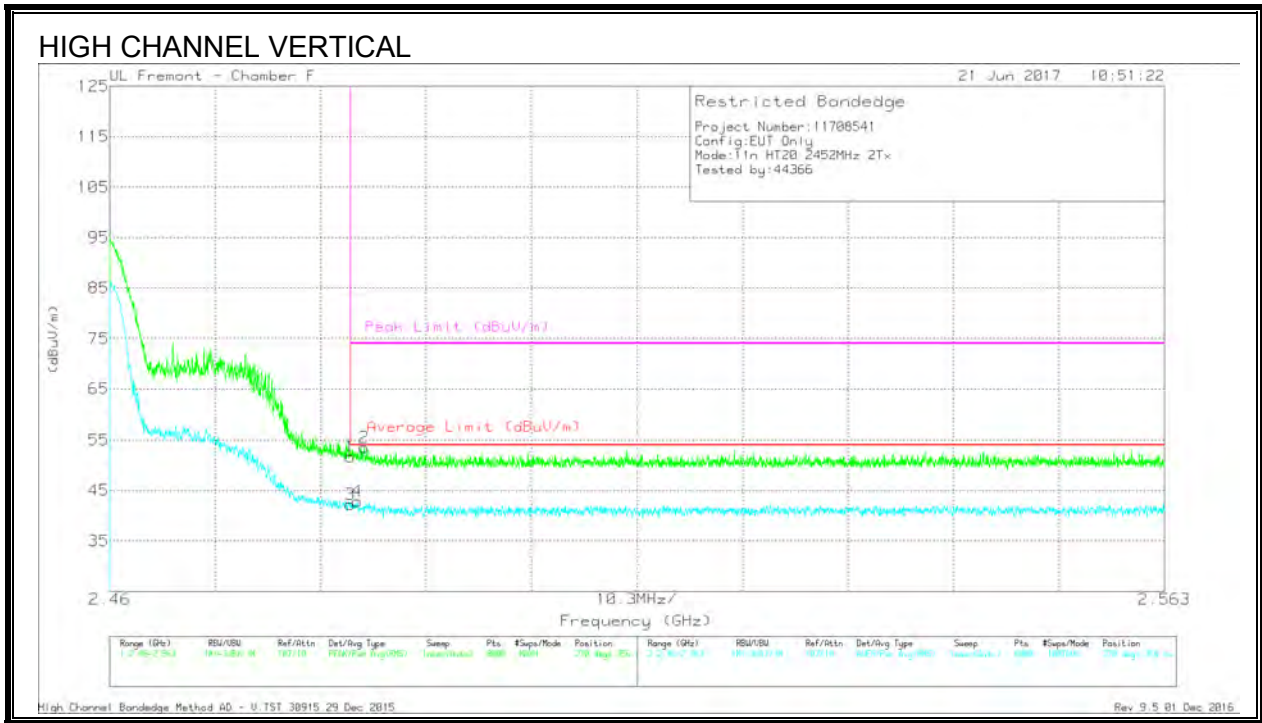
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

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

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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	40.54	Pk	32.1	-21	51.64	-	-	74	-22.36	270	356	V
2	* 2.485	42.33	Pk	32.2	-21	53.53	-	-	74	-20.47	270	356	V
3	* 2.484	31.08	RMS	32.1	-21	42.18	54	-11.82	-	-	270	356	V
4	* 2.484	31.62	RMS	32.2	-21	42.82	54	-11.18	-	-	270	356	V

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

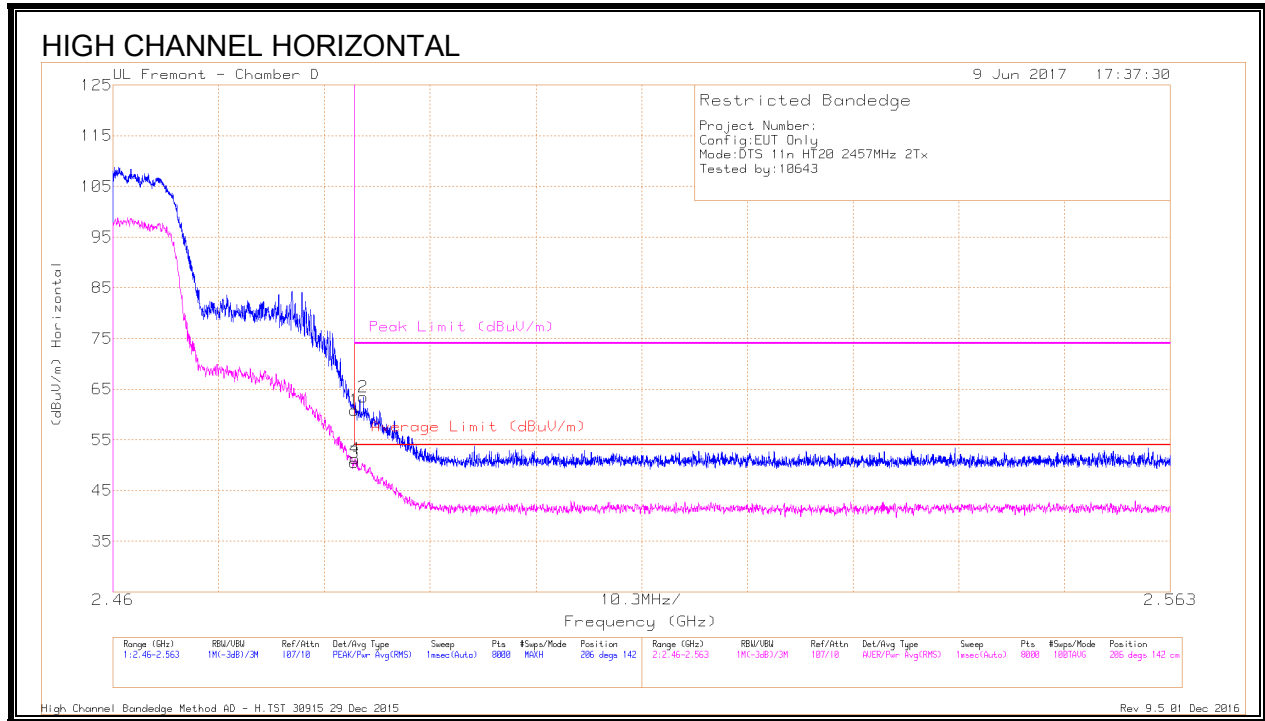
Pk - Peak detector

RMS - RMS detection

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

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AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 10)

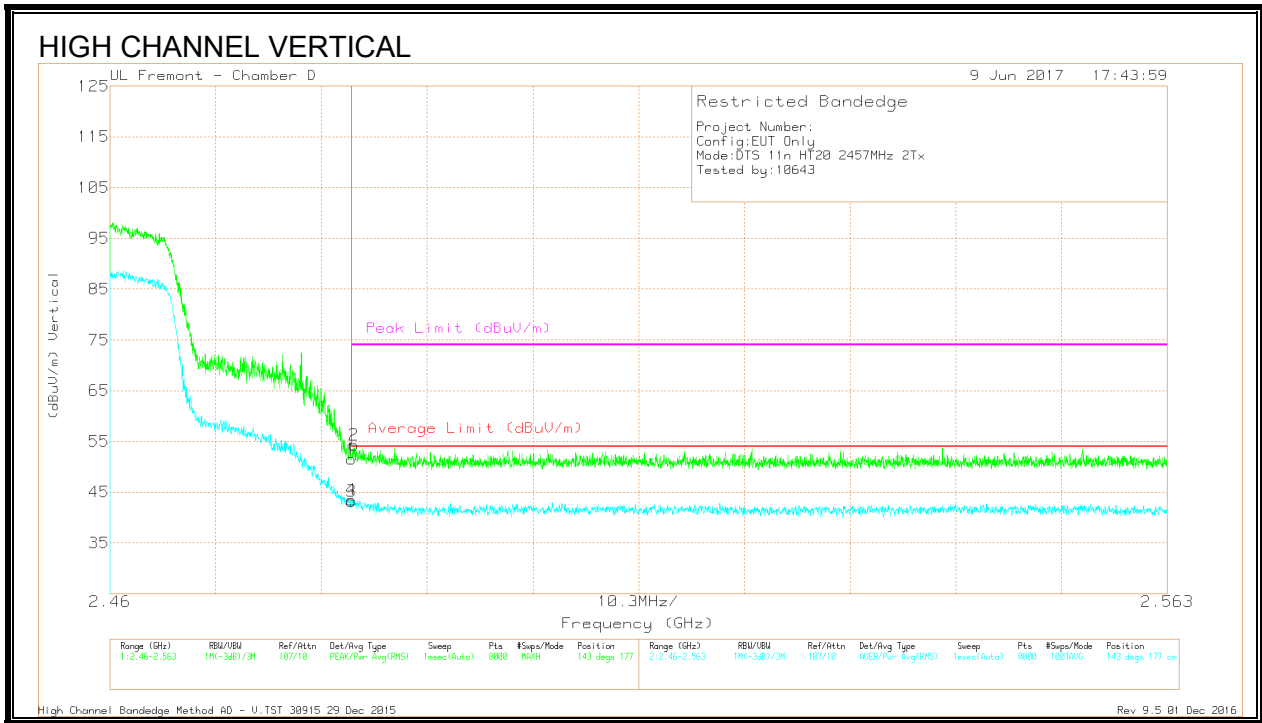


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
1	* 2.484	49.11	Pk	32.5	-20.8	60.81	-	-	74	-13.19	206	142	H
2	* 2.484	51.7	Pk	32.5	-20.8	63.4	-	-	74	-10.6	206	142	H
3	* 2.484	38.82	RMS	32.5	-20.8	50.52	54	-3.48	-	-	206	142	H
4	* 2.484	39.57	RMS	32.5	-20.8	51.27	54	-2.73	-	-	206	142	H

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

Pk - Peak detector

RMS - RMS detection



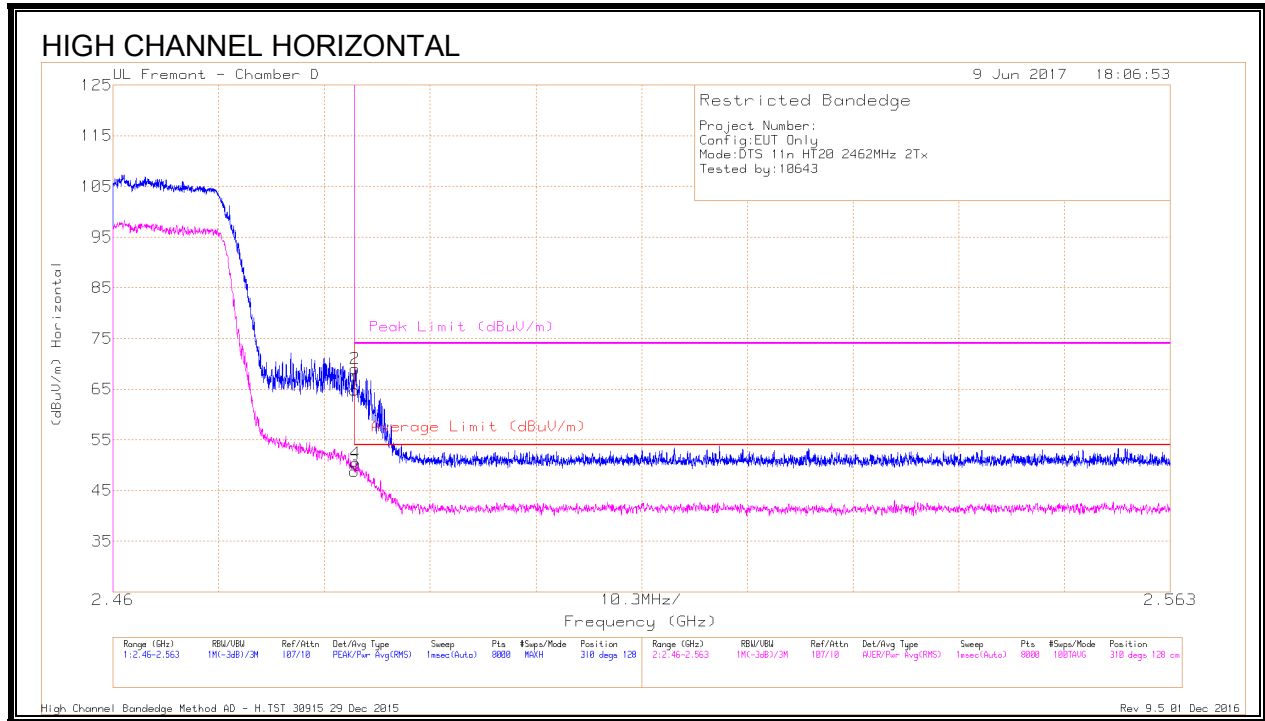
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
1	* 2.484	39.85	Pk	32.5	-20.8	51.55	-	-	74	-22.45	143	177	V
2	* 2.484	42.57	Pk	32.5	-20.8	54.27	-	-	74	-19.73	143	177	V
3	* 2.484	31.57	RMS	32.5	-20.8	43.27	54	-10.73	-	-	143	177	V
4	* 2.484	31.75	RMS	32.5	-20.8	43.45	54	-10.55	-	-	143	177	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 11)

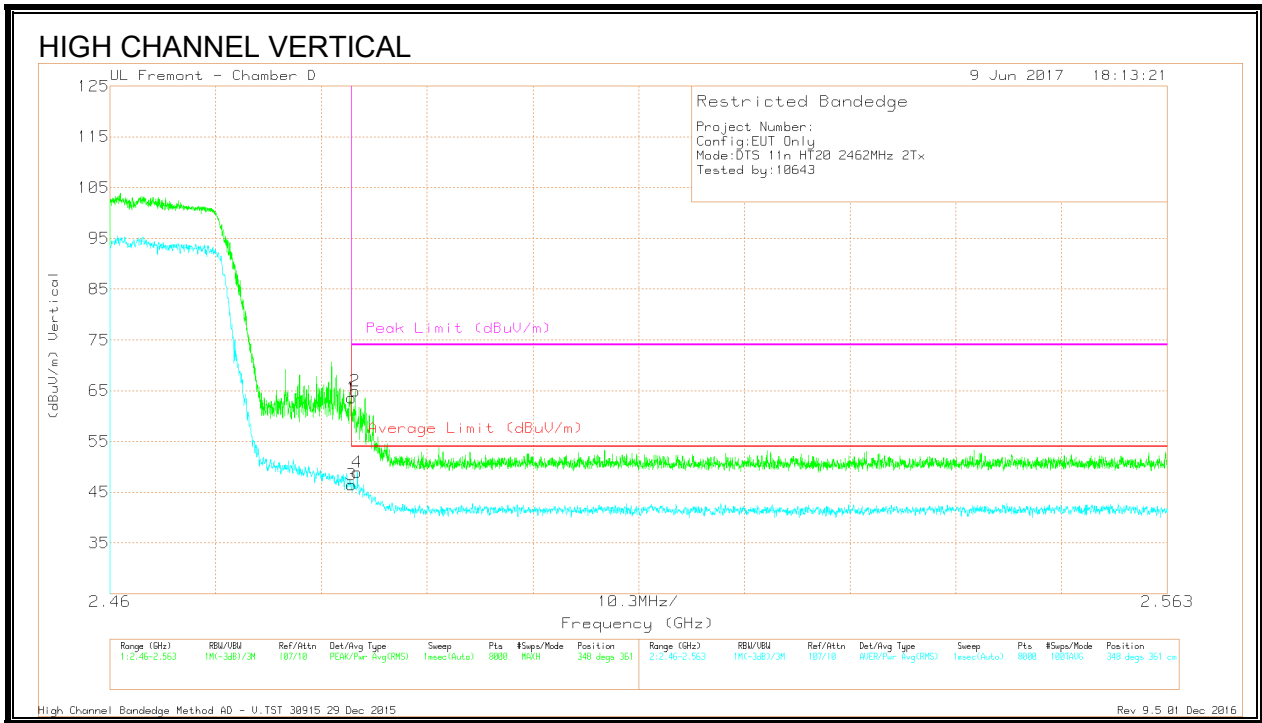


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
1	* 2.484	53.1	Pk	32.5	-20.8	64.8	-	-	74	-9.2	310	128	H
2	* 2.484	57.32	Pk	32.5	-20.8	69.02	-	-	74	-4.98	310	128	H
3	* 2.484	37.15	RMS	32.5	-20.8	48.85	54	-5.15	-	-	310	128	H
4	* 2.484	38.73	RMS	32.5	-20.8	50.43	54	-3.57	-	-	310	128	H

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

Pk - Peak detector

RMS - RMS detection



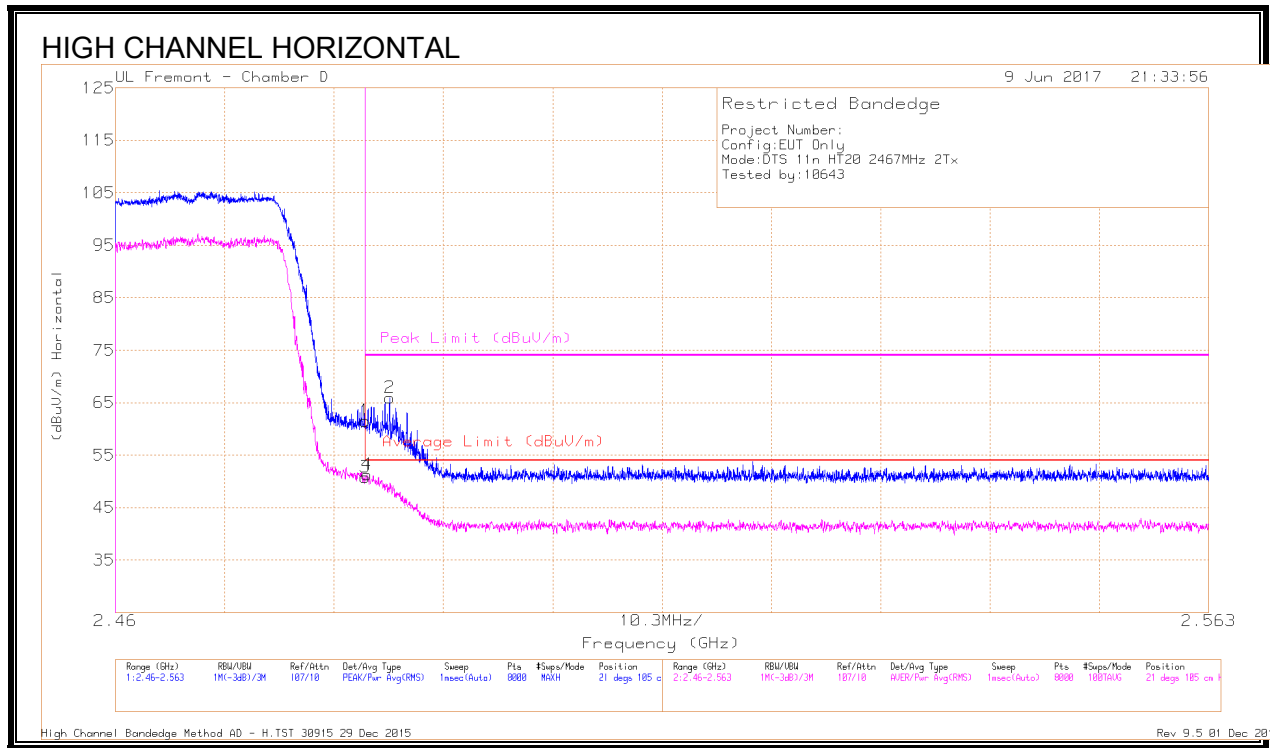
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	51.88	Pk	32.5	-20.8	63.58	-	-	74	-10.42	348	361	V
2	* 2.484	53.29	Pk	32.5	-20.8	64.99	-	-	74	-9.01	348	361	V
3	* 2.484	34.76	RMS	32.5	-20.8	46.46	54	-7.54	-	-	348	361	V
4	* 2.484	37.2	RMS	32.5	-20.8	48.9	54	-5.1	-	-	348	361	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 12)

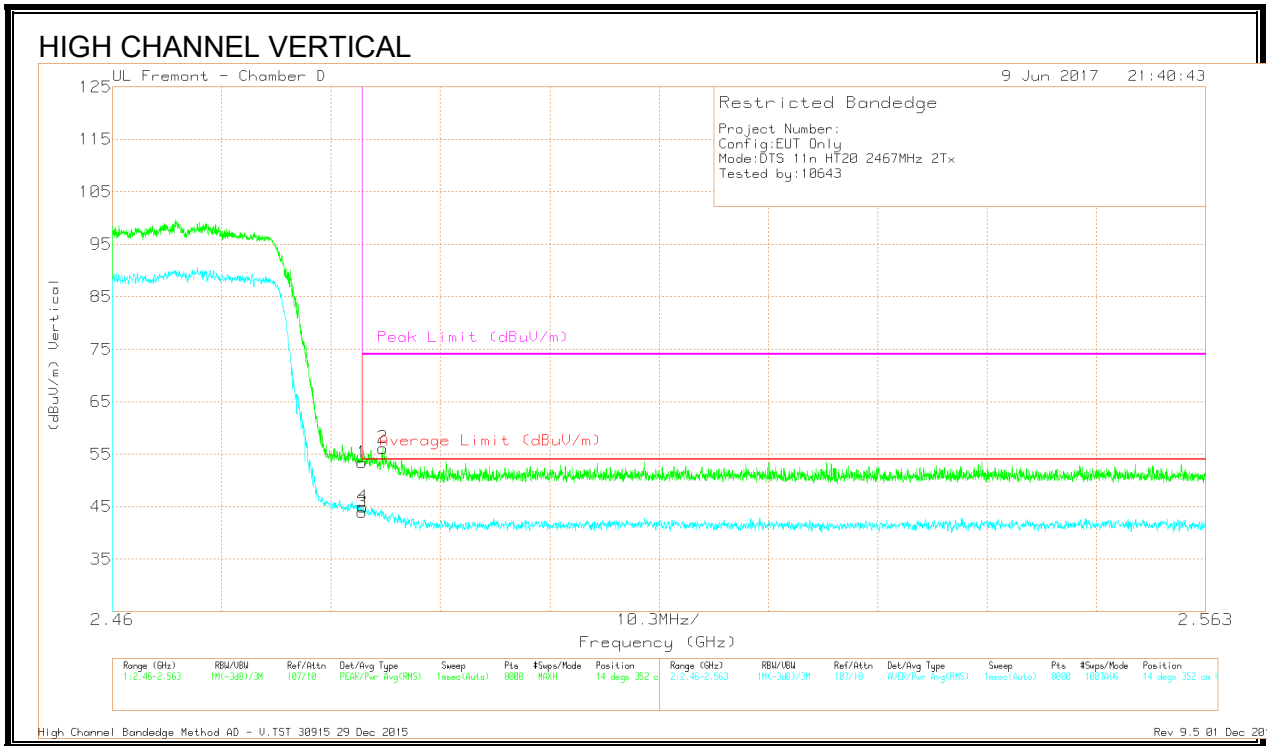


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	49.83	Pk	32.5	-20.8	61.53	-	-	74	-12.47	21	105	H
3	* 2.484	39.07	RMS	32.5	-20.8	50.77	54	-3.23	-	-	21	105	H
4	* 2.484	39.53	RMS	32.5	-20.8	51.23	54	-2.77	-	-	21	105	H
2	* 2.486	54.19	Pk	32.6	-20.8	65.99	-	-	74	-8.01	21	105	H

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

Pk - Peak detector

RMS - RMS detection



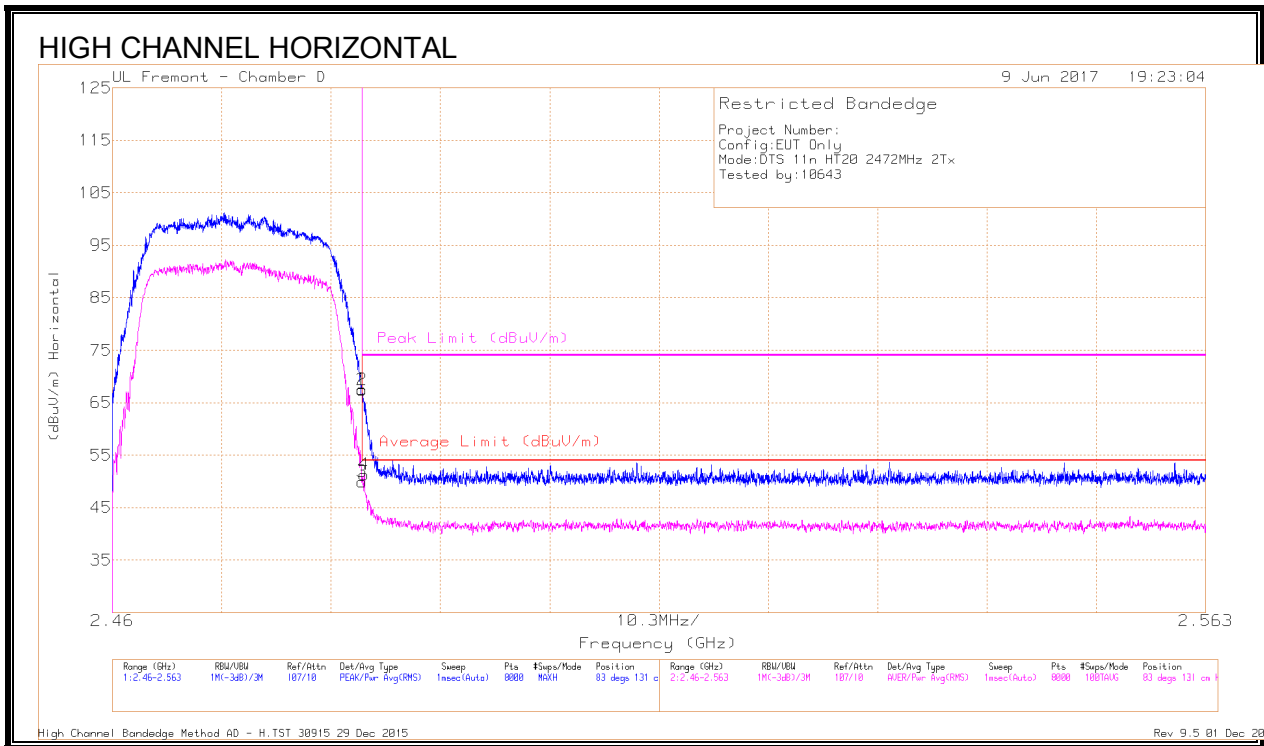
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.67	Pk	32.5	-20.8	53.37	-	-	74	-20.63	14	352	V
3	* 2.484	32.22	RMS	32.5	-20.8	43.92	54	-10.08	-	-	14	352	V
4	* 2.484	33.26	RMS	32.5	-20.8	44.96	54	-9.04	-	-	14	352	V
2	* 2.485	44.39	Pk	32.6	-20.8	56.19	-	-	74	-17.81	14	352	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 13)

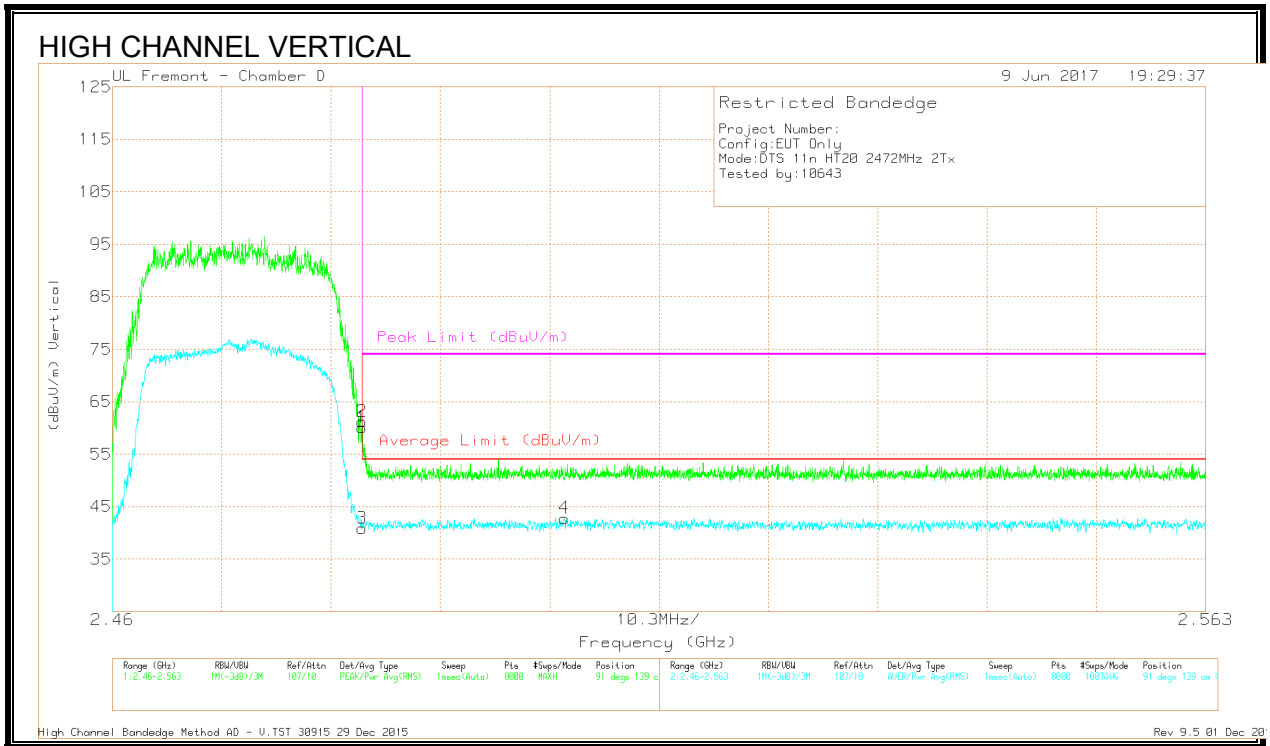


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	55.9	Pk	32.5	-20.8	67.6	-	-	74	-6.4	83	131	H
2	* 2.484	55.78	Pk	32.5	-20.8	67.48	-	-	74	-6.52	83	131	H
3	* 2.484	38.2	RMS	32.5	-20.8	49.9	54	-4.1	-	-	83	131	H
4	* 2.484	39.63	RMS	32.5	-20.8	51.33	54	-2.67	-	-	83	131	H

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

Pk - Peak detector

RMS - RMS detection



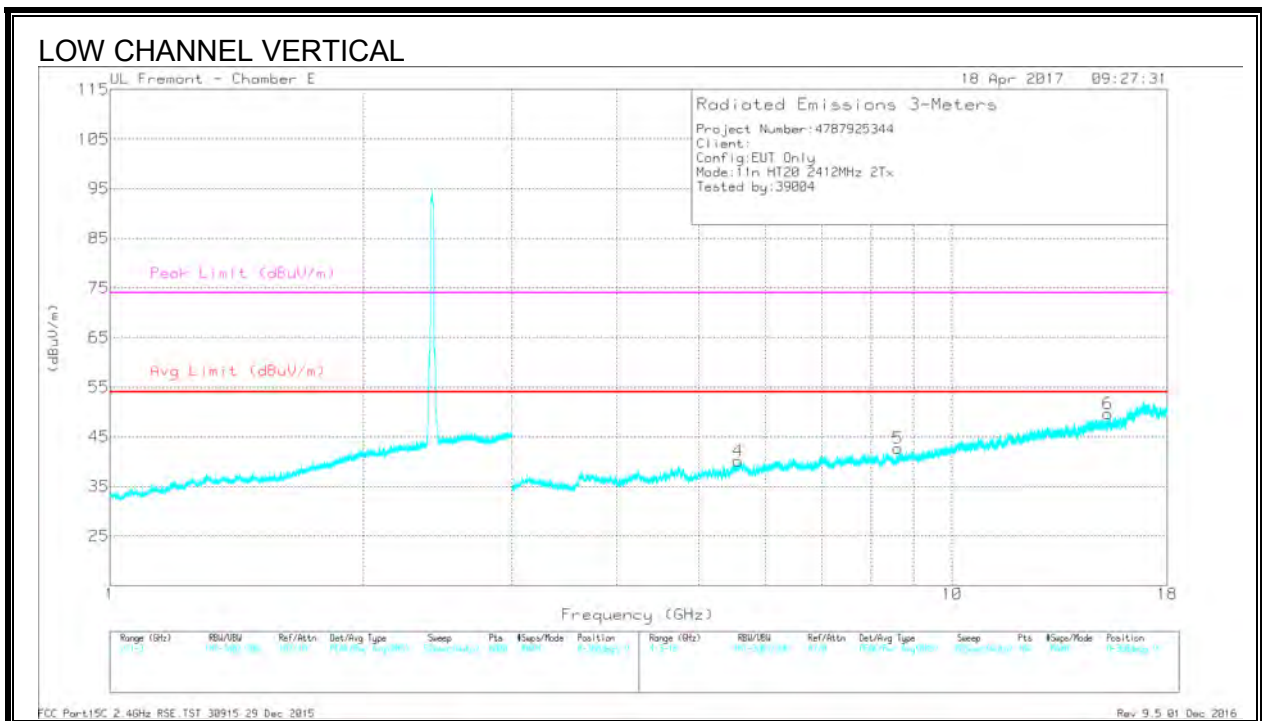
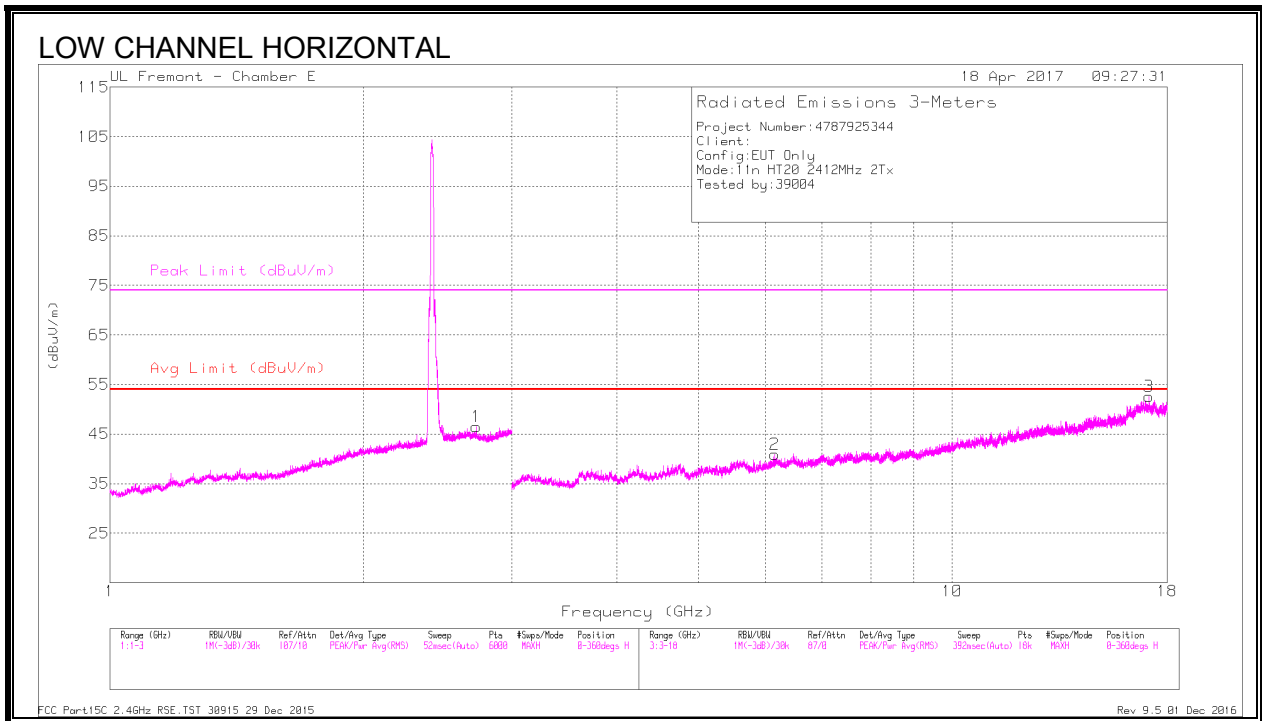
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	48.37	Pk	32.5	-20.8	60.07	-	-	74	-13.93	91	139	V
2	* 2.484	49.5	Pk	32.5	-20.8	61.2	-	-	74	-12.8	91	139	V
3	* 2.484	29.17	RMS	32.5	-20.8	40.87	54	-13.13	-	-	91	139	V
4	2.503	30.88	RMS	32.6	-20.7	42.78	54	-11.22	-	-	91	139	V

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

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL, CH 1)



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 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	* 2.724	38.67	PK2	32.3	-19.3	51.67	-	-	74	-22.33	227	247	H
	* 2.723	26.74	MAv1	32.3	-19.3	39.74	54	-14.26	-	-	227	247	H
4	5.575	41.11	PK2	35.4	-29.7	46.81	-	-	-	-	155	240	V
2	6.16	40.13	PK2	35.6	-28.1	47.63	-	-	-	-	220	220	H
5	8.616	37.84	PK2	36	-26.1	47.74	-	-	-	-	201	155	V
6	15.314	36.31	PK2	40.6	-21.3	55.61	-	-	-	-	235	174	V
3	17.12	37.09	PK2	42.1	-20.3	58.89	-	-	-	-	184	135	H

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

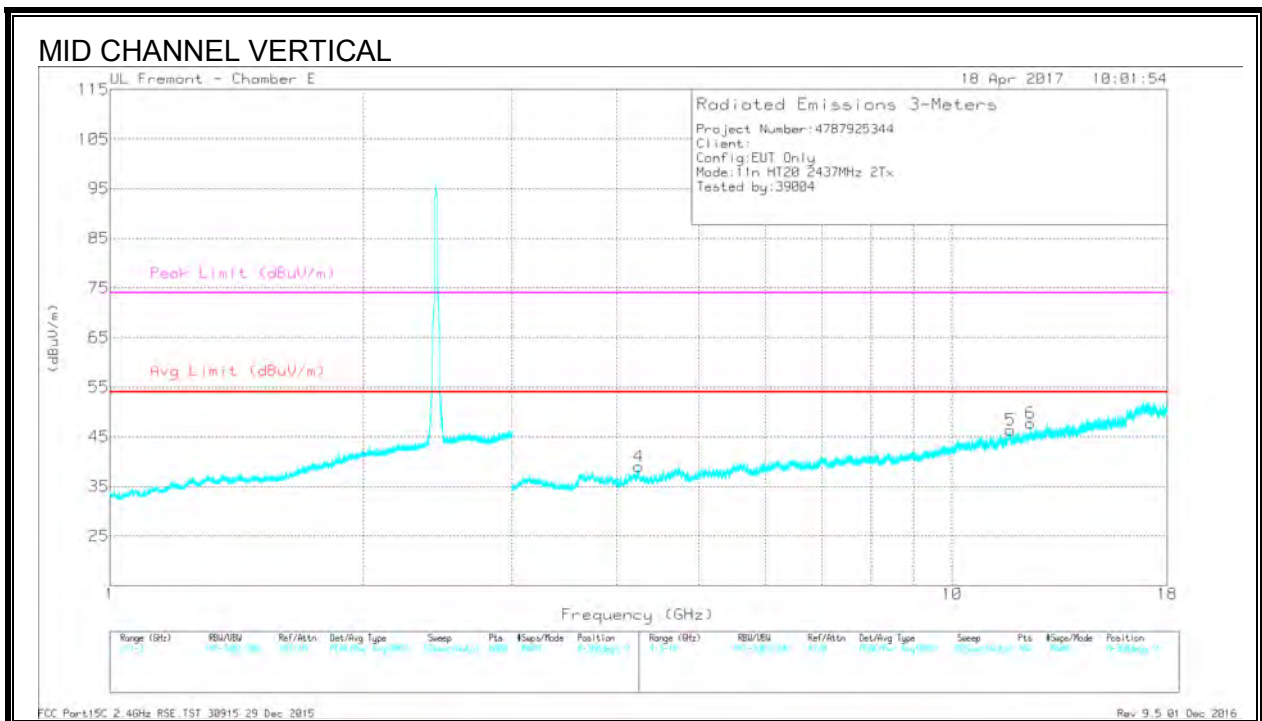
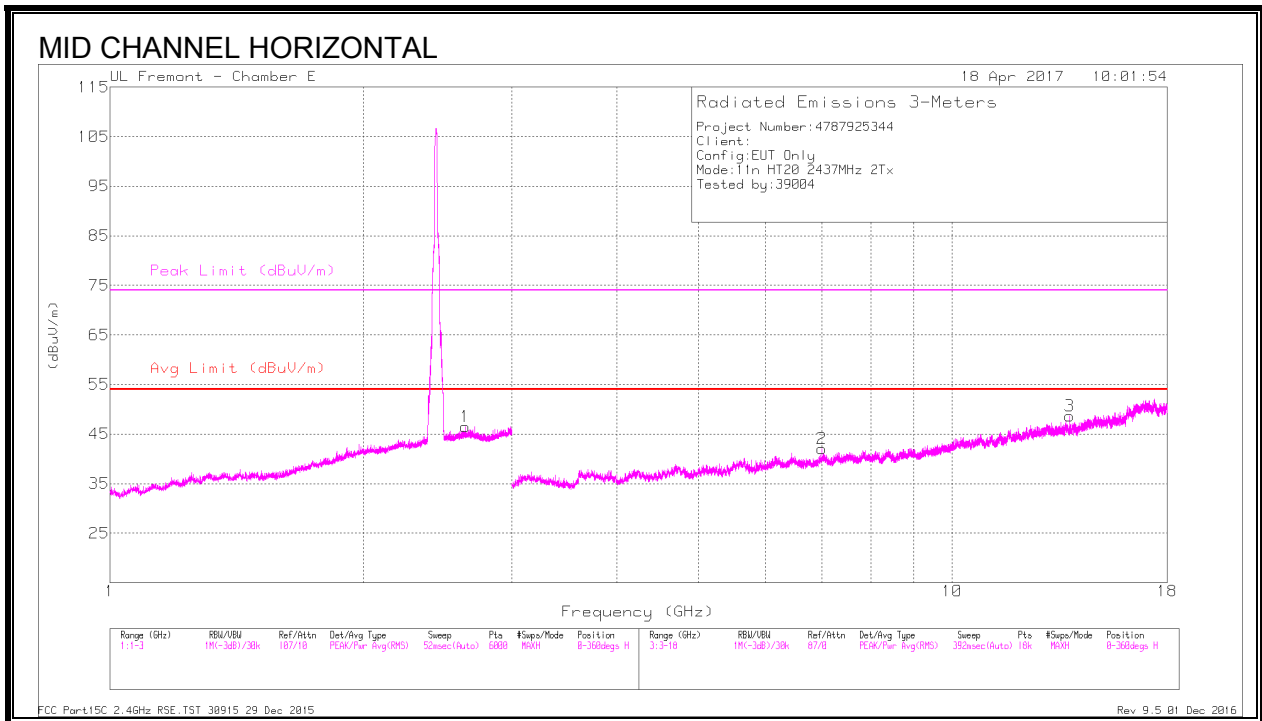
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2016

HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL, CH 6)



DATA

Marker	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
4	* 4.246	40.8	PK2	33.5	-28.6	45.7	-	-	74	-28.3	204	119	V
	* 4.245	29.18	MAv1	33.5	-28.6	34.08	54	-19.92	-	-	204	119	V
5	* 11.728	36.68	PK2	38.4	-22.5	52.58	-	-	74	-21.42	73	156	V
	* 11.727	25.2	MAv1	38.4	-22.4	41.2	54	-12.8	-	-	73	156	V
6	* 12.387	38.16	PK2	39.2	-23.2	54.16	-	-	74	-19.84	62	166	V
	* 12.387	25.9	MAv1	39.2	-23.3	41.8	54	-12.2	-	-	62	166	V
1	2.641	38.75	PK2	32.4	-19.3	51.85	-	-	-	-	77	125	H
2	6.999	39.86	PK2	35.7	-26.6	48.96	-	-	-	-	43	156	H
3	13.781	37.49	PK2	39.3	-23.9	52.89	-	-	-	-	115	230	H

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

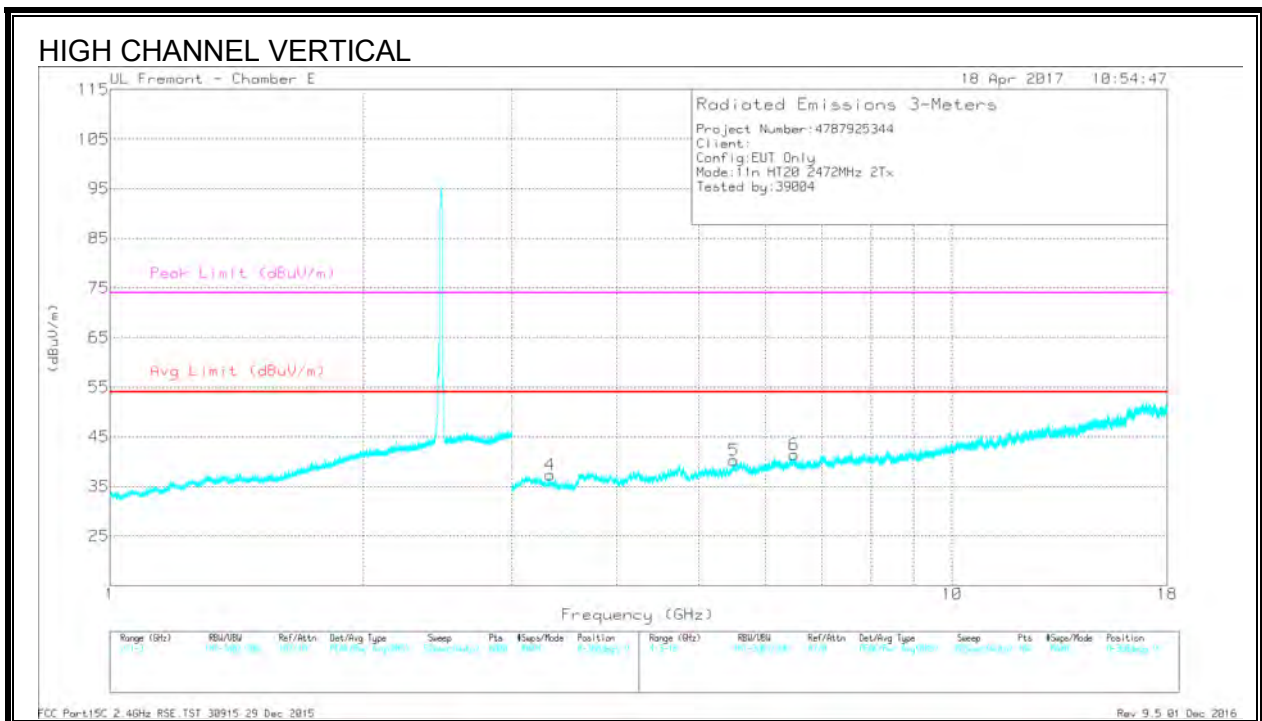
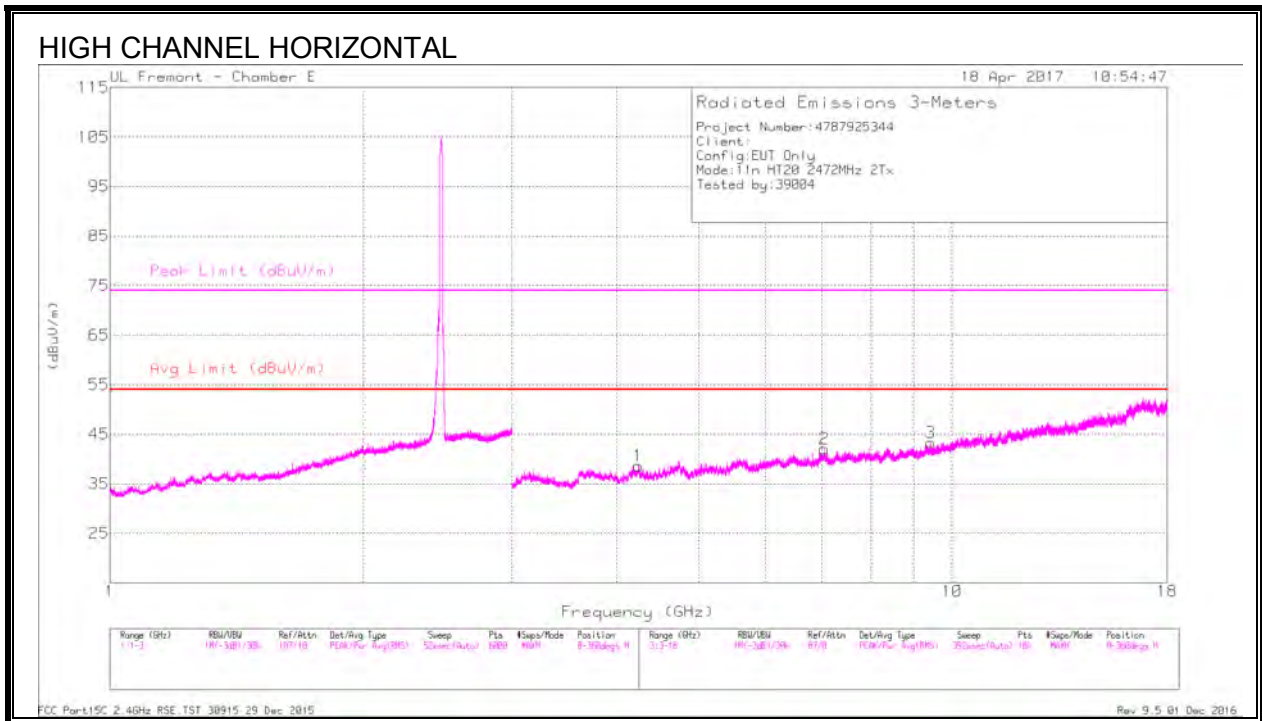
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2016

HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL, CH 13)



DATA

Marker	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	* 4.24	40.85	PK2	33.5	-28.7	45.65	-	-	74	-28.35	167	313	H
	* 4.238	29.39	MAV1	33.5	-28.7	34.19	54	-19.81	-	-	167	313	H
3	* 9.43	37.66	PK2	36.6	-25.4	48.86	-	-	74	-25.14	243	237	H
	* 9.43	25.97	MAV1	36.6	-25.4	37.17	54	-16.83	-	-	243	237	H
4	3.33	41.45	PK2	32.8	-30.6	43.65	-	-	-	-	113	175	V
5	5.505	40.82	PK2	35.5	-29.8	46.52	-	-	-	-	207	400	V
6	6.494	39.38	PK2	35.7	-27.2	47.88	-	-	-	-	105	102	V
2	7.049	39.14	PK2	35.7	-26.5	48.34	-	-	-	-	0	317	H

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

PK2 - KDB558074 Method: Maximum Peak

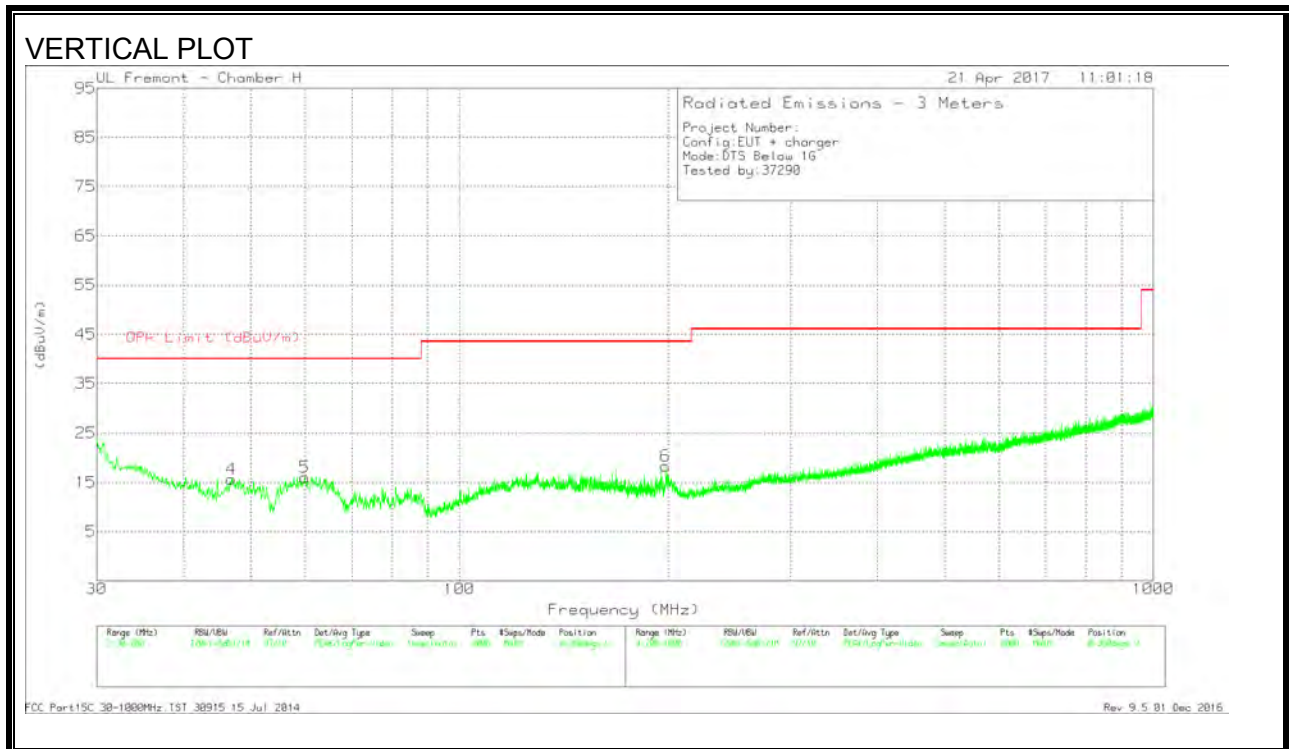
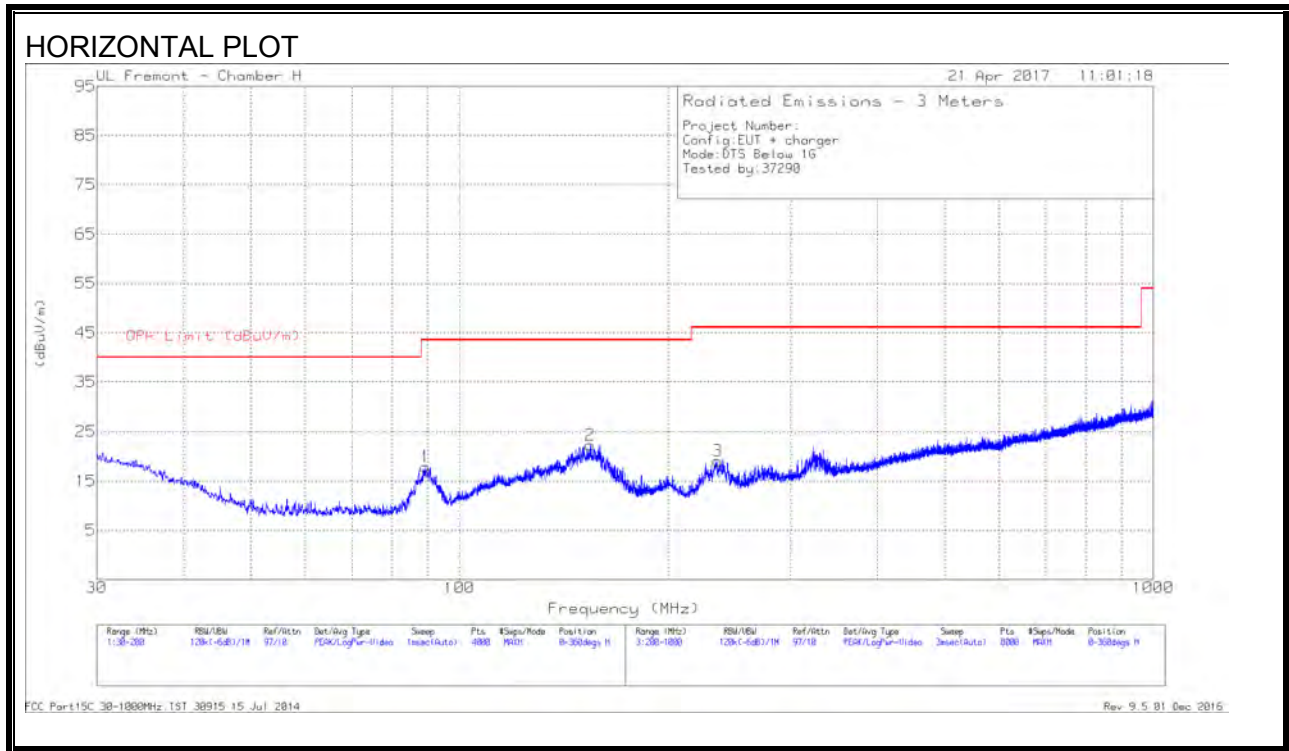
MAV1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015

Rev 9.5 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 T185 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	46.9619	32.97	Pk	13.7	-31	15.67	40	-24.33	0-360	100	V
5	59.864	35.63	Pk	11.3	-30.9	16.03	40	-23.97	0-360	100	V
1	89.3879	36.8	Pk	11.6	-30.6	17.8	43.52	-25.72	0-360	199	H
2	154.3022	36.24	Pk	16.1	-30.1	22.24	43.52	-21.28	0-360	199	H
6	198.2585	31.81	Pk	16.3	-29.8	18.31	43.52	-25.21	0-360	100	V
3	235.7046	33.34	Pk	15.3	-29.5	19.14	46.02	-26.88	0-360	101	H

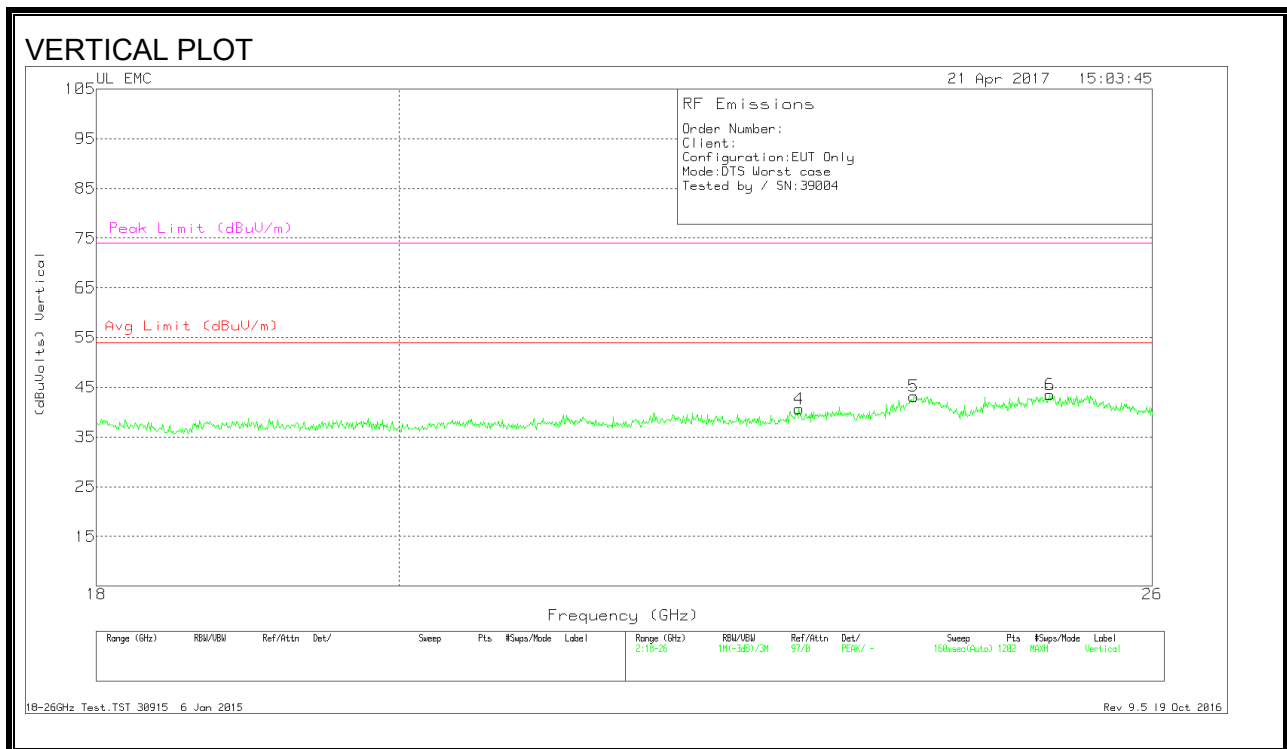
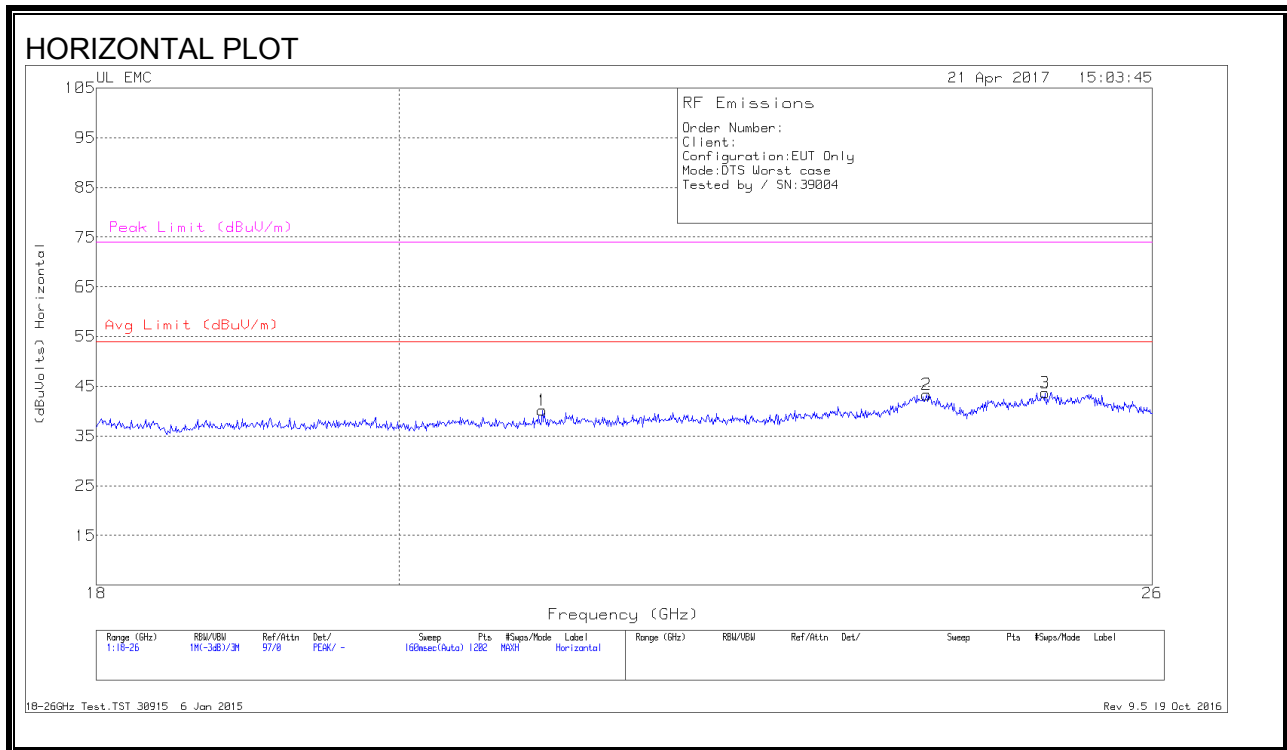
Pk - Peak detector

FCC Part15C 30-1000MHz.TST 30915 15 Jul 2014

Rev 9.5 01 Dec 2016

9.4. WORST-CASE 18 to 26 GHz

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



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T449 (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	21.024	41.87	Pk	33.2	-25.4	-9.5	40.16	54	-13.83	74	-33.83
2	24.035	43.13	Pk	34	-24.3	-9.5	43.33	54	-10.66	74	-30.66
3	25.047	43.57	Pk	34.3	-24.7	-9.5	43.66	54	-10.33	74	-30.33
4	22.989	41.67	Pk	33.4	-24.9	-9.5	40.66	54	-13.33	74	-33.33
5	23.928	42.67	Pk	34	-24	-9.5	43.16	54	-10.83	74	-30.83
6	25.087	43.2	Pk	34.3	-24.5	-9.5	43.5	54	-10.5	74	-30.5

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 (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

TEST PROCEDURE

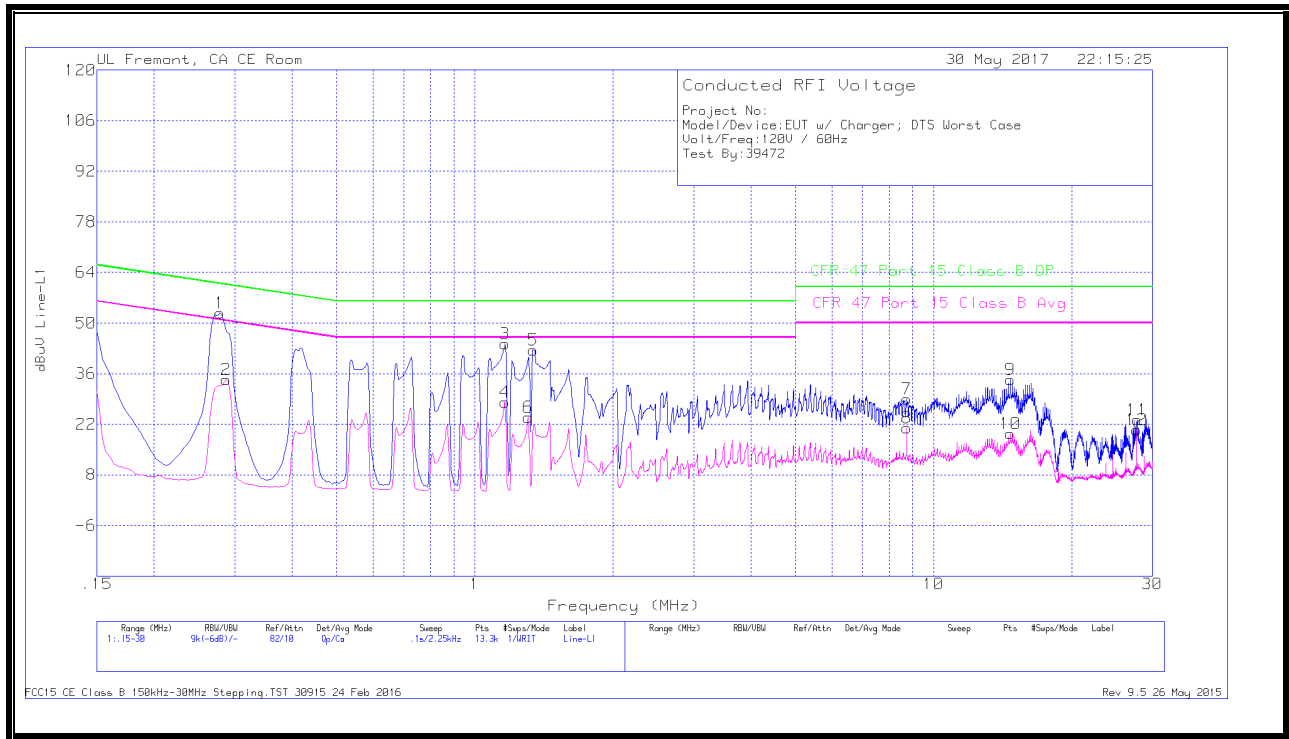
The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

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

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

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

LINE 1 RESULTS



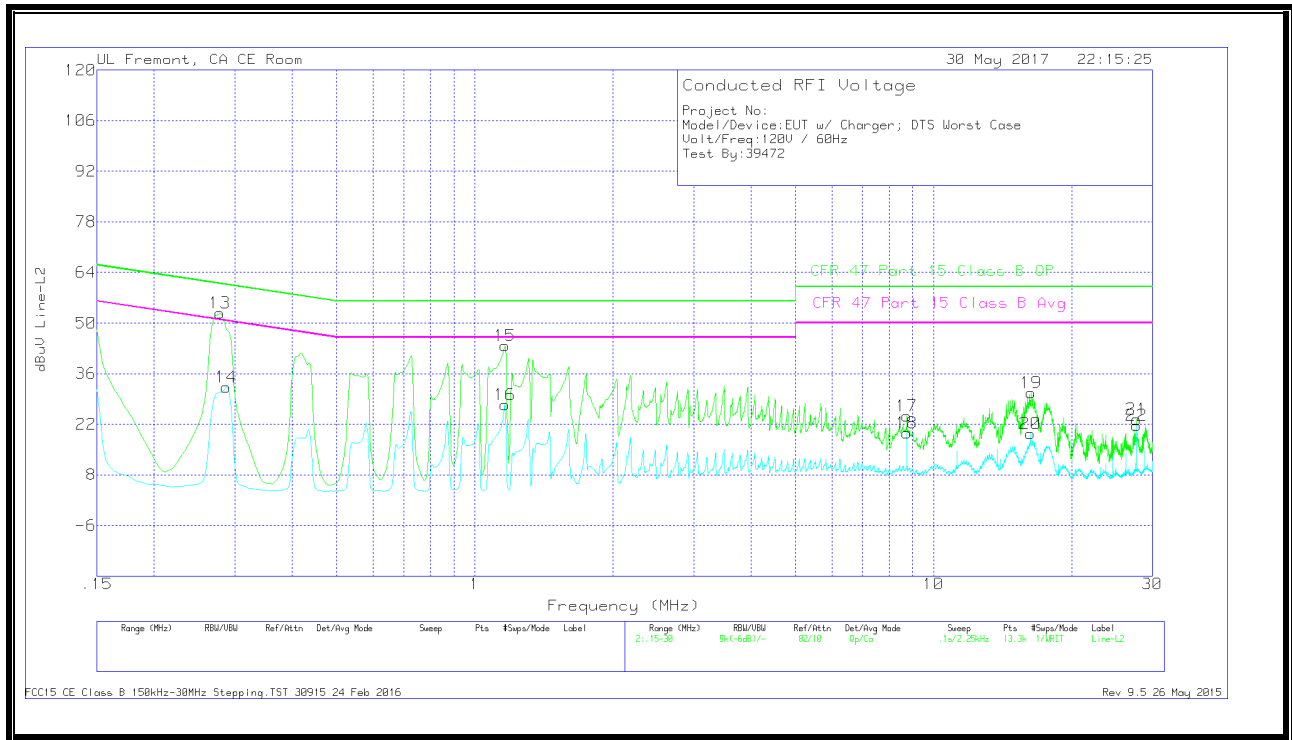
WORST EMISSIONS

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	.27825	42.55	Qp	0	.1	10.1	52.75	60.87	-8.12	-	-
2	.28725	24.09	Ca	0	.1	10.1	34.29	-	-	50.6	-16.31
3	1.16475	34.01	Qp	0	.1	10.1	44.21	56	-11.79	-	-
4	1.1625	17.84	Ca	0	.1	10.1	28.04	-	-	46	-17.96
5	1.34025	32.38	Qp	0	.1	10.1	42.58	56	-13.42	-	-
6	1.30875	13.77	Ca	0	.1	10.1	23.97	-	-	46	-22.03
7	8.7495	18.49	Qp	0	.2	10.2	28.89	60	-31.11	-	-
8	8.7495	10.5	Ca	0	.2	10.2	20.9	-	-	50	-29.1
9	14.712	23.93	Qp	0	.2	10.2	34.33	60	-25.67	-	-
10	14.712	9.01	Ca	0	.2	10.2	19.41	-	-	50	-30.59
11	27.8228	12.27	Qp	.1	.3	10.5	23.17	60	-36.83	-	-
12	27.6923	9.58	Ca	.1	.3	10.5	20.48	-	-	50	-29.52

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



WORST EMISSIONS

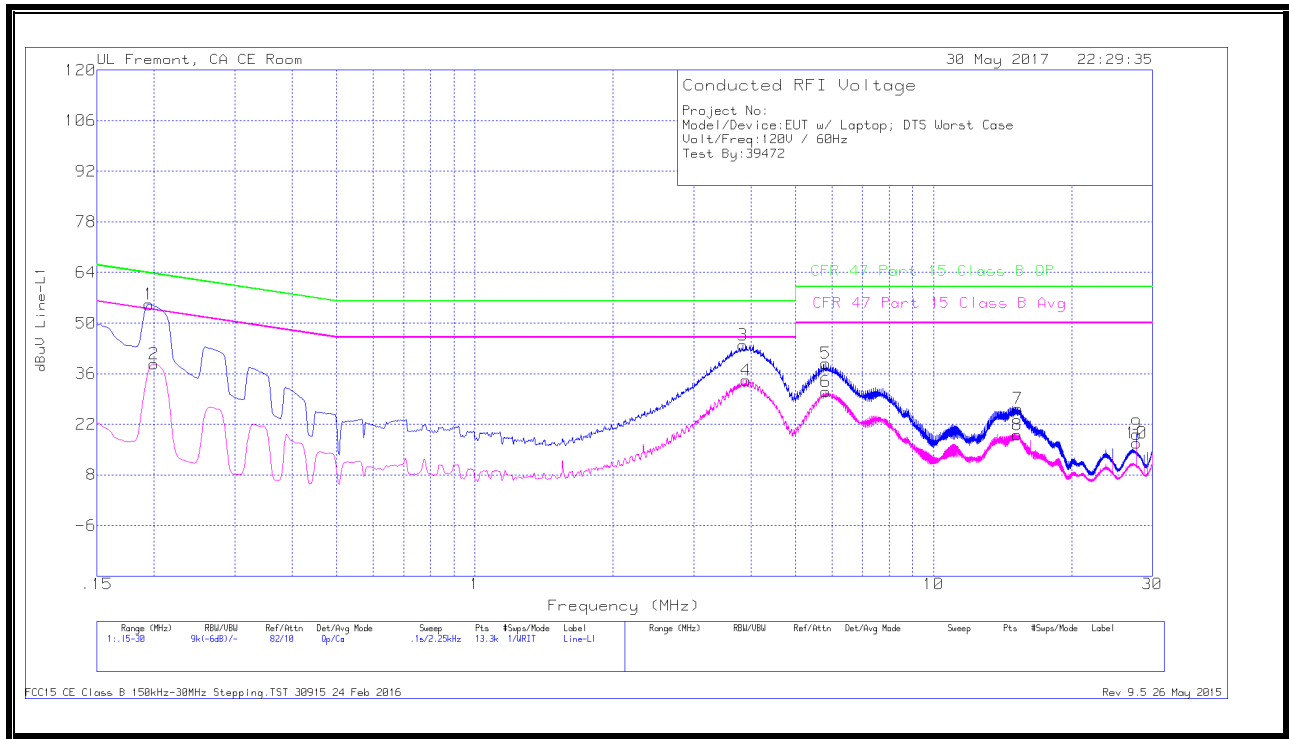
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
13	.27825	42.56	Qp	0	.1	10.1	52.76	60.87	-8.11	-	-
14	.28725	22.13	Ca	0	.1	10.1	32.33	-	-	50.6	-18.27
15	1.16475	33.54	Qp	0	.1	10.1	43.74	56	-12.26	-	-
16	1.1625	17.19	Ca	0	.1	10.1	27.39	-	-	46	-18.61
17	8.7495	13.8	Qp	0	.2	10.2	24.2	60	-35.8	-	-
18	8.7495	9.17	Ca	0	.2	10.2	19.57	-	-	50	-30.43
19	16.3208	20.23	Qp	0	.2	10.3	30.73	60	-29.27	-	-
20	16.251	8.98	Ca	0	.2	10.3	19.48	-	-	50	-30.52
21	27.6923	12.42	Qp	.1	.3	10.5	23.32	60	-36.68	-	-
22	27.6923	10.81	Ca	.1	.3	10.5	21.71	-	-	50	-28.29

Qp - Quasi-Peak detector

Ca - CISPR average detection

10.2. EUT POWERED BY HOST PC VIA USB CABLE

LINE 1 RESULTS



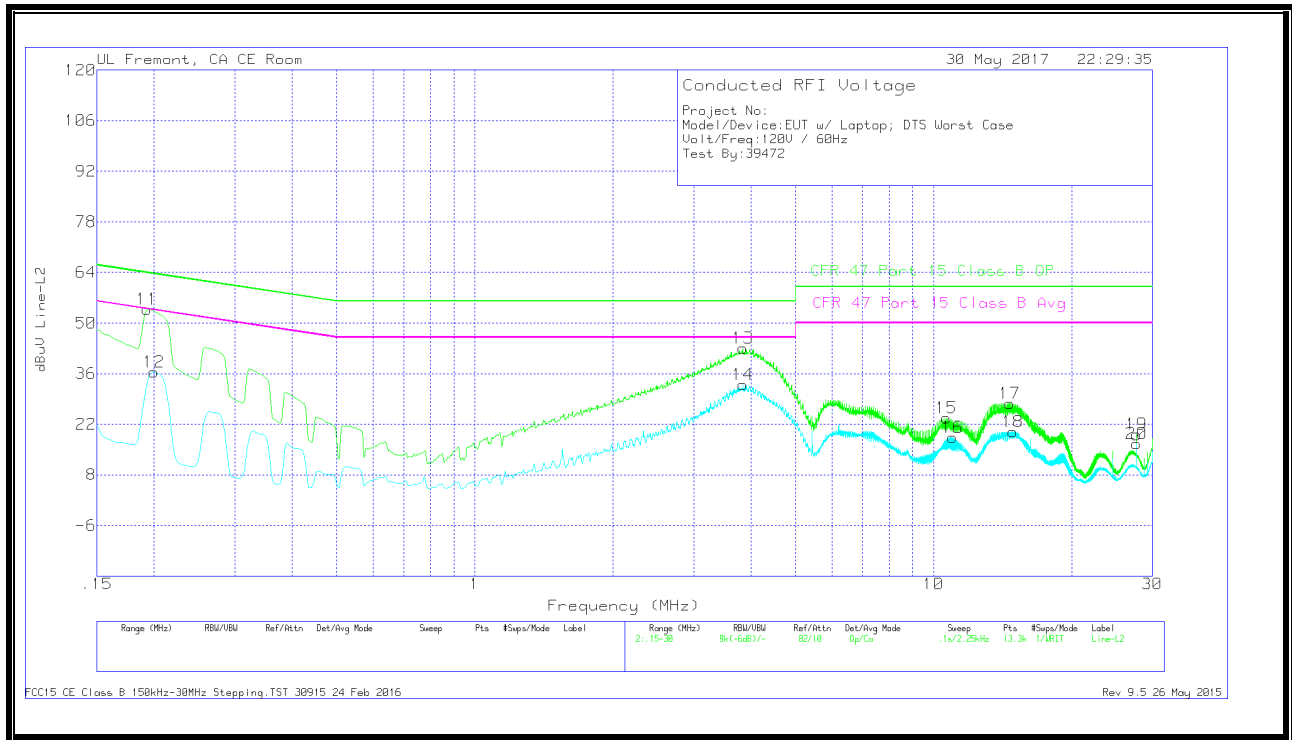
WORST EMISSIONS

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	.195	44.93	Qp	0	.1	10.1	55.13	63.82	-8.69	-	-
2	.1995	28.43	Ca	0	.1	10.1	38.63	-	-	53.63	-15
3	3.83775	33.72	Qp	0	.1	10.1	43.92	56	-12.08	-	-
4	3.9075	23.94	Ca	0	.1	10.1	34.14	-	-	46	-11.86
5	5.829	28.58	Qp	0	.1	10.2	38.88	60	-21.12	-	-
6	5.829	20.74	Ca	0	.1	10.2	31.04	-	-	50	-18.96
7	15.2858	16.01	Qp	0	.2	10.2	26.41	60	-33.59	-	-
8	15.2363	8.67	Ca	0	.2	10.2	19.07	-	-	50	-30.93
9	27.6923	8.37	Qp	.1	.3	10.5	19.27	60	-40.73	-	-
10	27.6923	5.89	Ca	.1	.3	10.5	16.79	-	-	50	-33.21

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



WORST EMISSIONS

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)
11	.19275	43.65	Qp	0	.1	10.1	53.85	63.92	-10.07	-	-
12	.1995	26.24	Ca	0	.1	10.1	36.44	-	-	53.63	-17.19
13	3.83775	32.79	Qp	0	.1	10.1	42.99	56	-13.01	-	-
14	3.84	22.7	Ca	0	.1	10.1	32.9	-	-	46	-13.1
15	10.6598	13.42	Qp	0	.2	10.2	23.82	60	-36.18	-	-
16	11.0198	8.01	Ca	0	.2	10.2	18.41	-	-	50	-31.59
17	14.64	17.32	Qp	.1	.2	10.2	27.82	60	-32.18	-	-
18	14.9033	9.45	Ca	.1	.2	10.2	19.95	-	-	50	-30.05
19	27.6923	8.25	Qp	.1	.3	10.5	19.15	60	-40.85	-	-
20	27.6923	5.71	Ca	.1	.3	10.5	16.61	-	-	50	-33.39

Qp - Quasi-Peak detector

Ca - CISPR average detection