

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

8.5.1. 6 dB BANDWIDTH

LIMITS

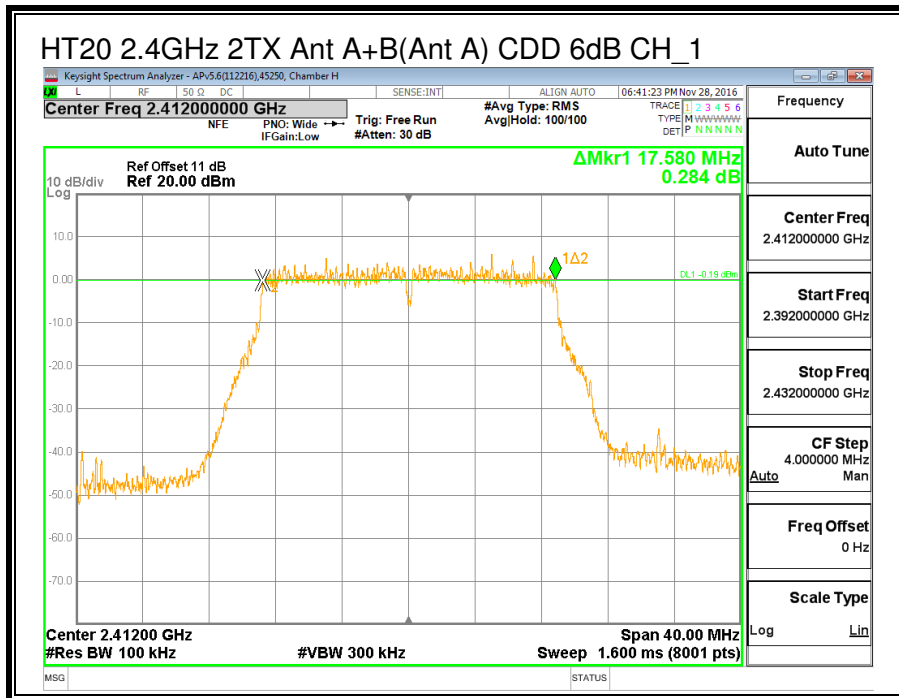
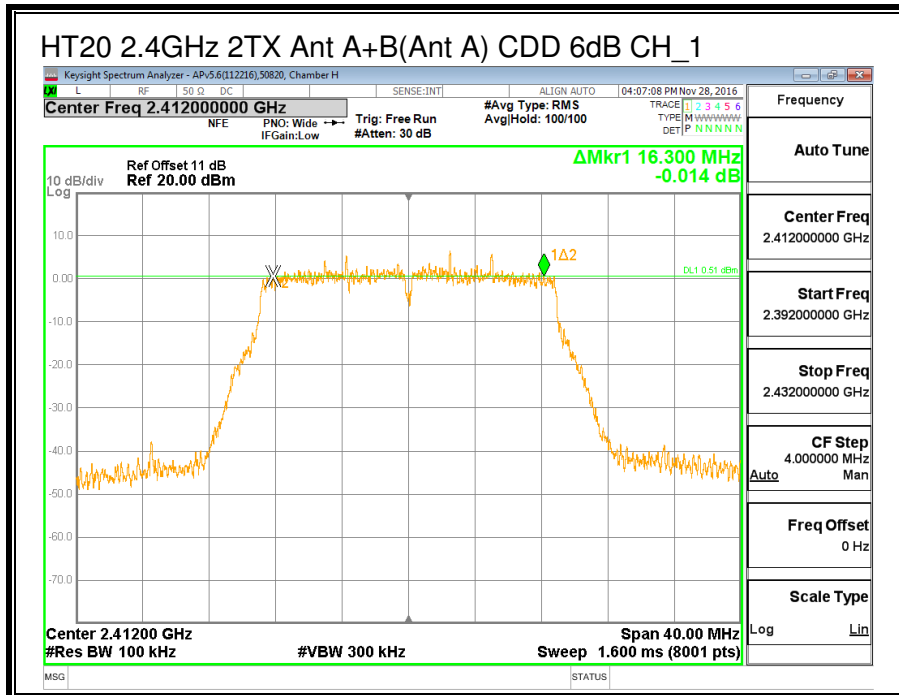
FCC §15.247 (a) (2)

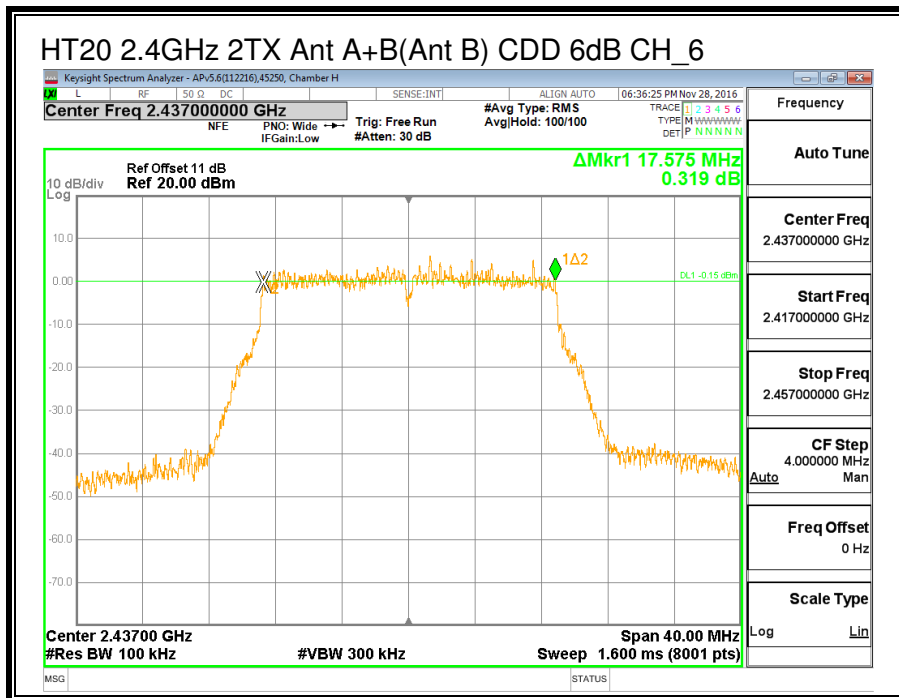
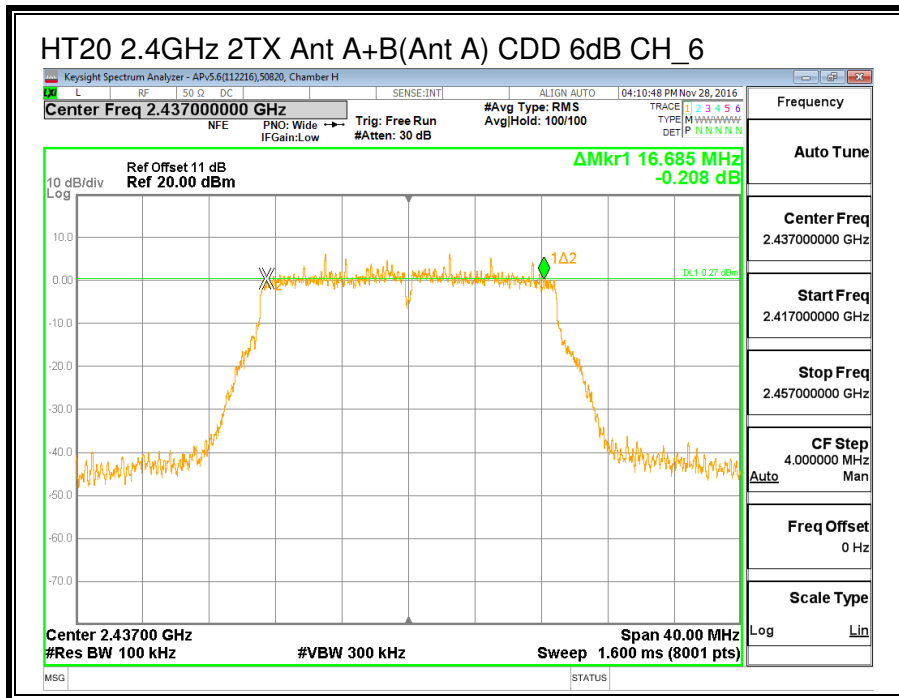
IC RSS-247 (5.2) (1)

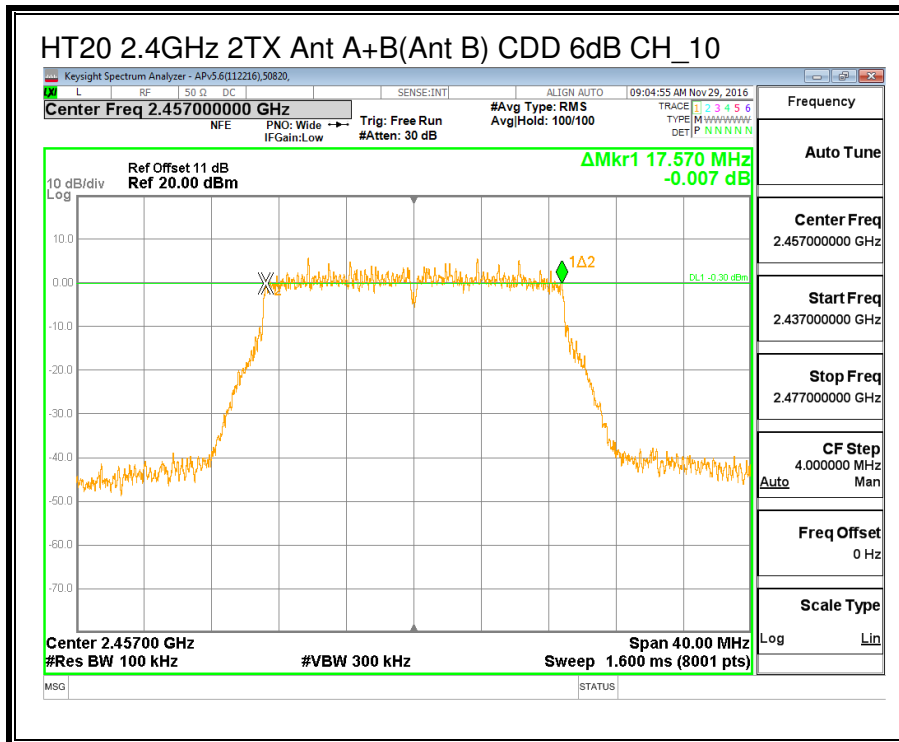
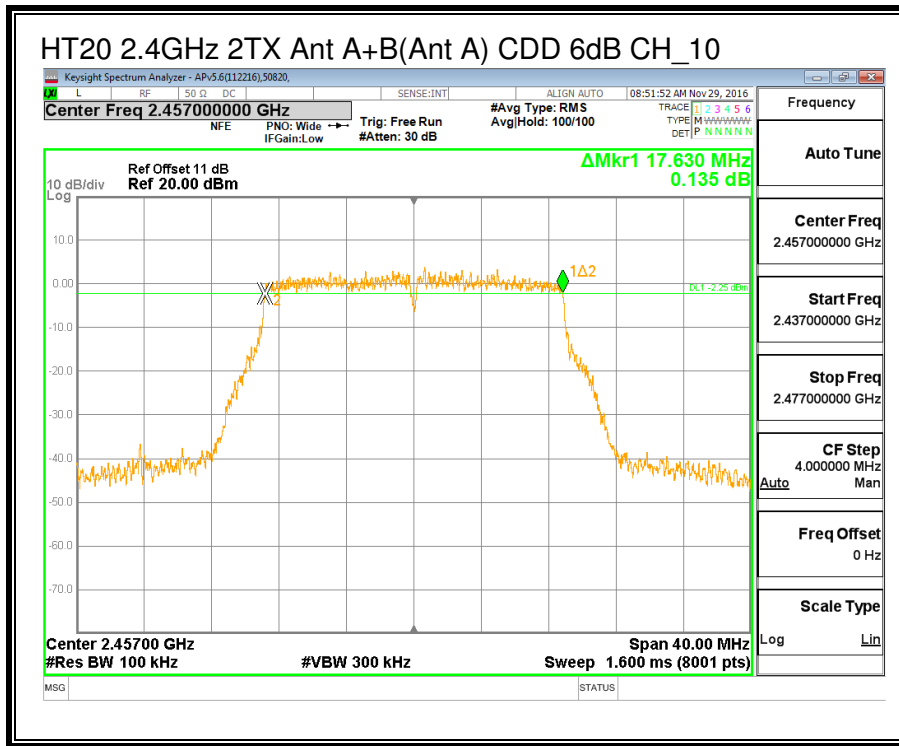
The minimum 6 dB bandwidth shall be at least 500 kHz.

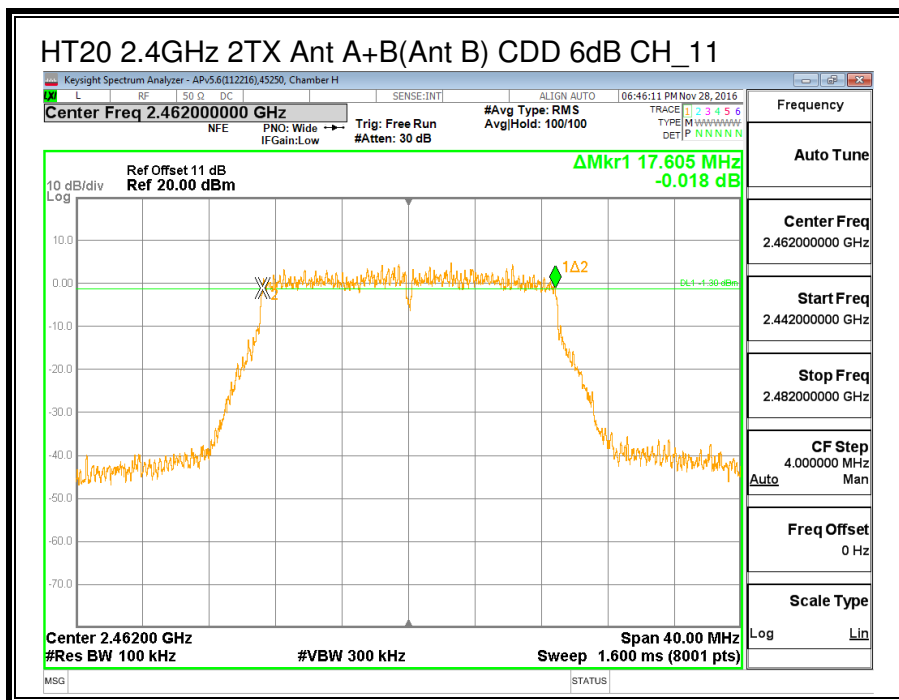
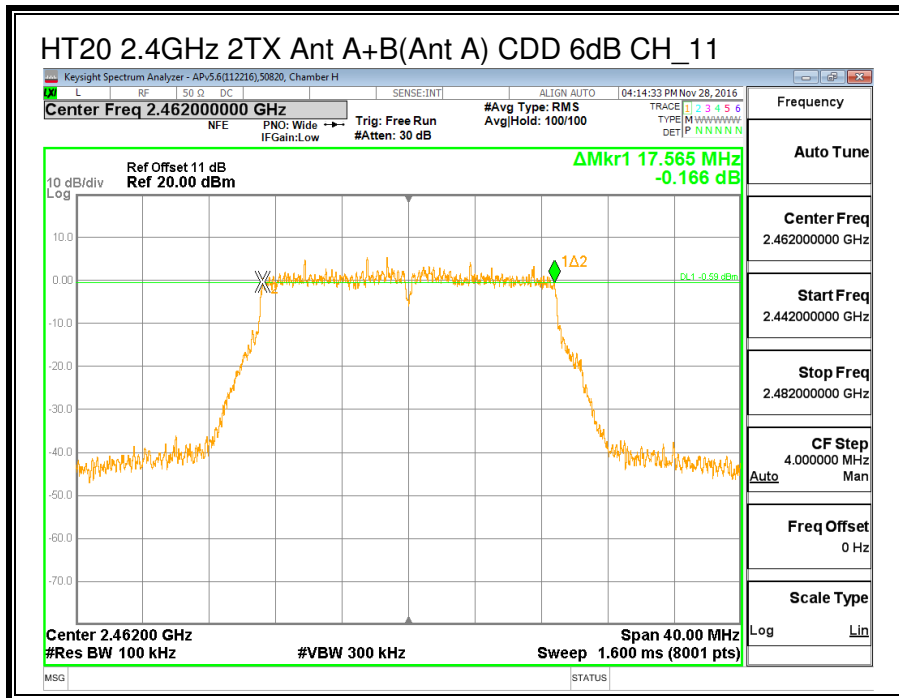
RESULTS

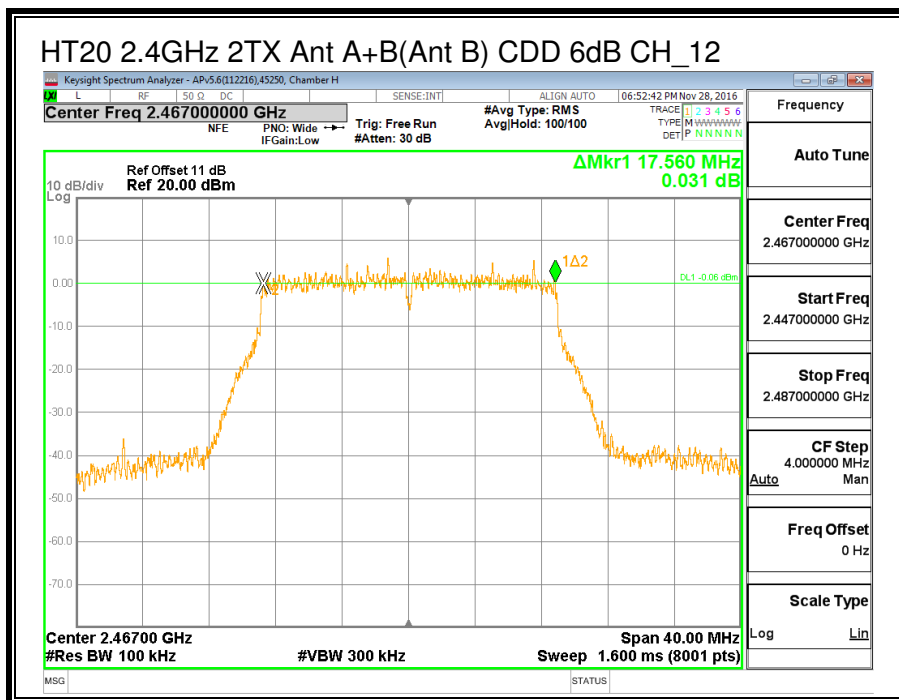
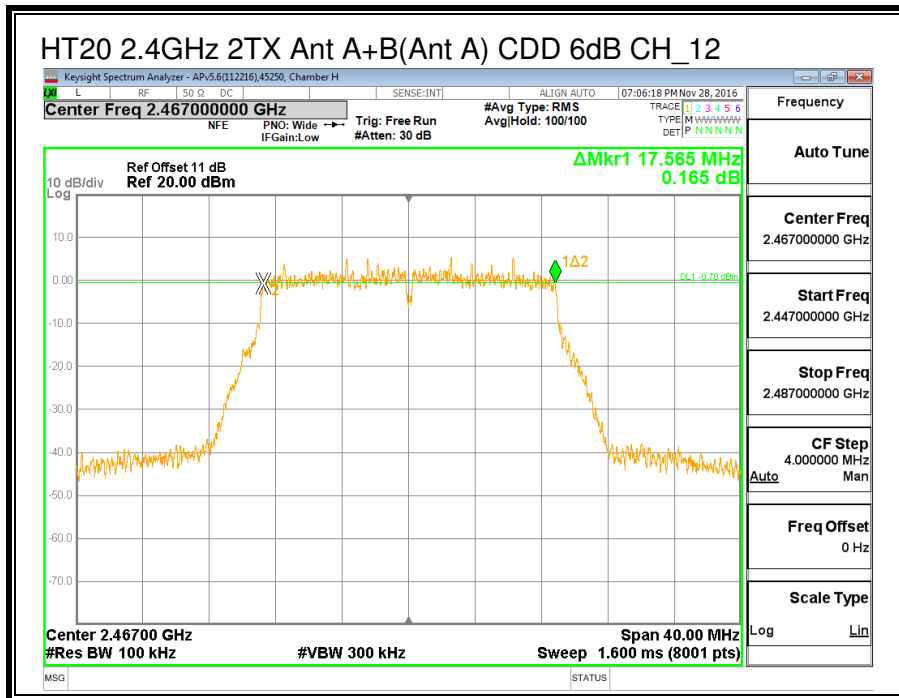
Channel	Frequency	6 dB BW Ant A (MHz)	6 dB BW Ant B (MHz)	Minimum Limit (MHz)
Low_1	2412	16.300	17.580	0.5
Middle_6	2437	16.685	17.575	0.5
High_10	2457	17.630	17.570	0.5
High_11	2462	17.565	17.605	0.5
High_12	2467	17.565	17.560	0.5
High_13	2472	17.055	17.555	0.5

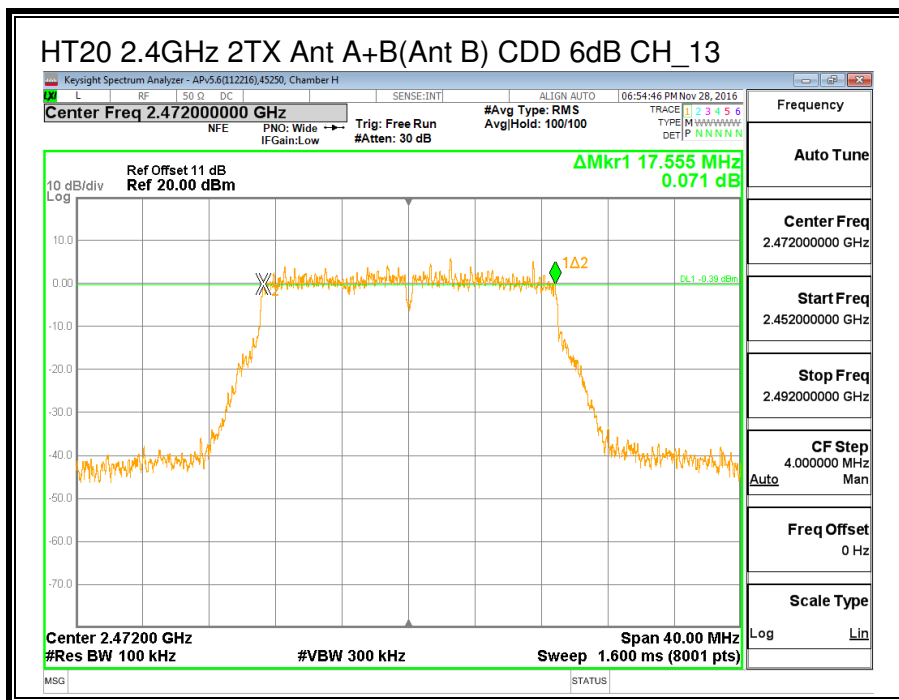
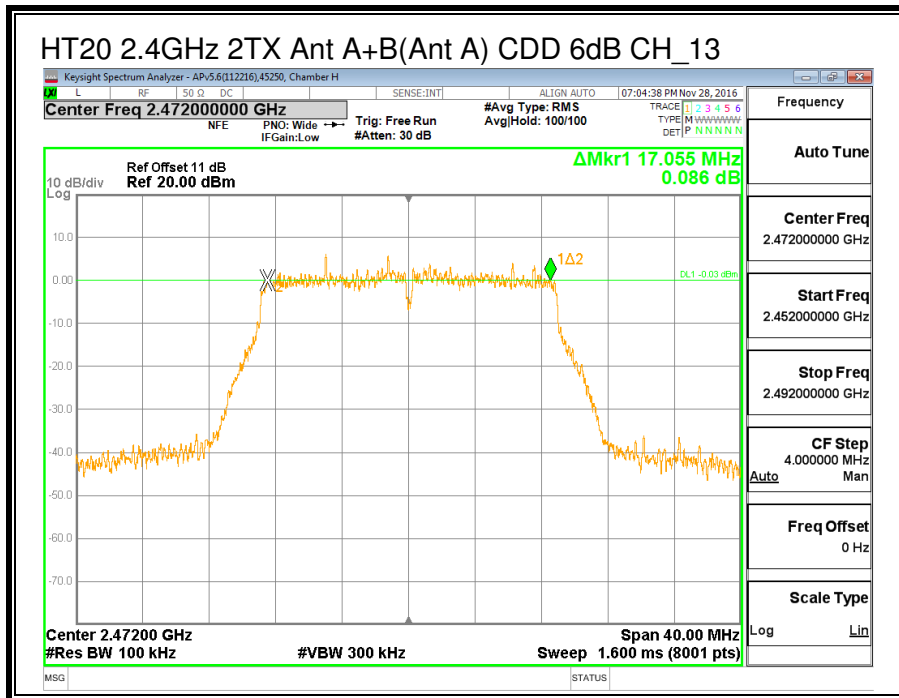












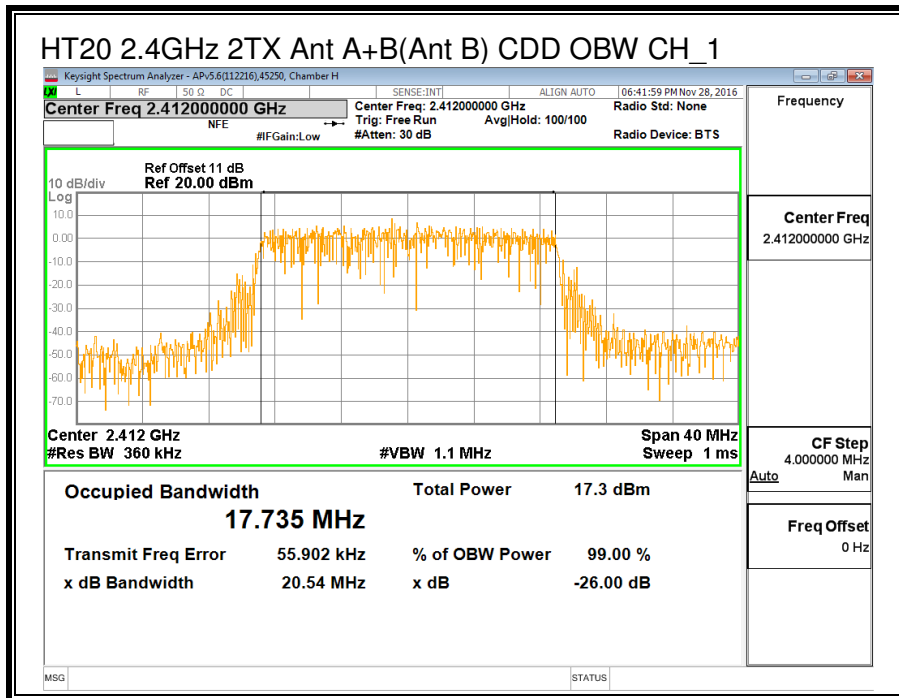
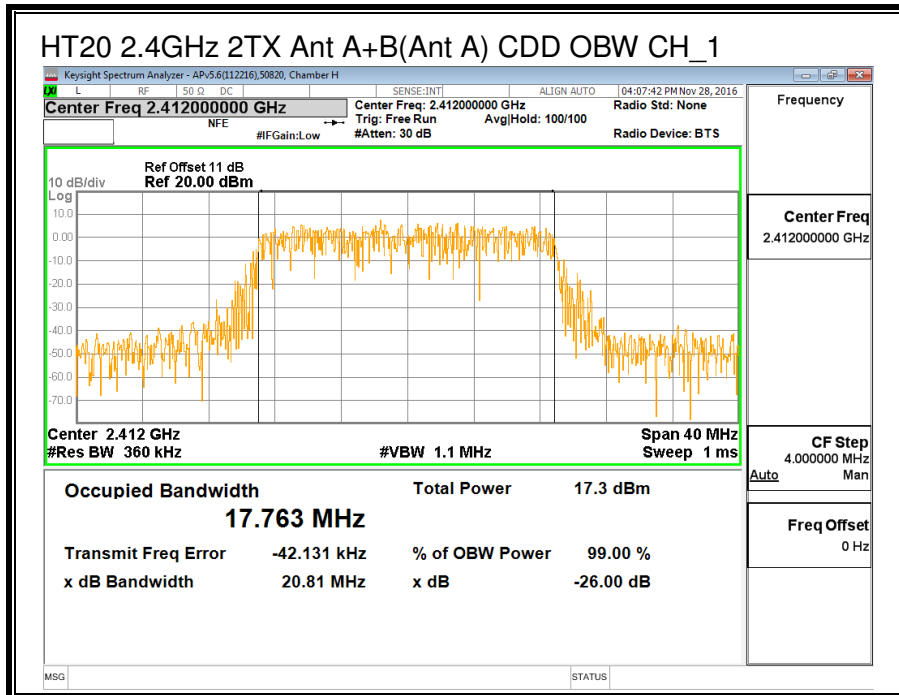
8.5.2. 99% BANDWIDTH

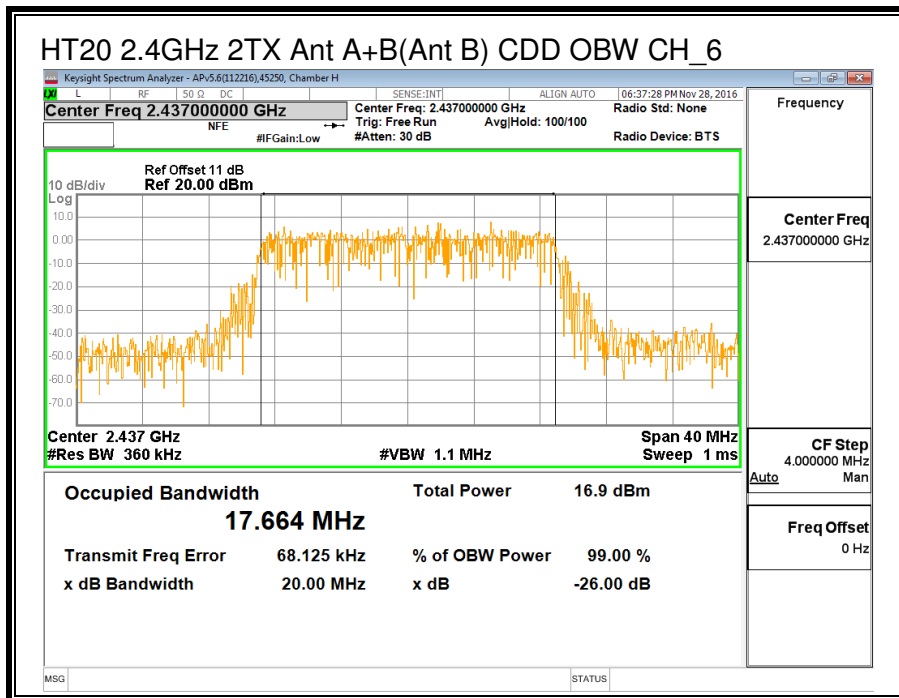
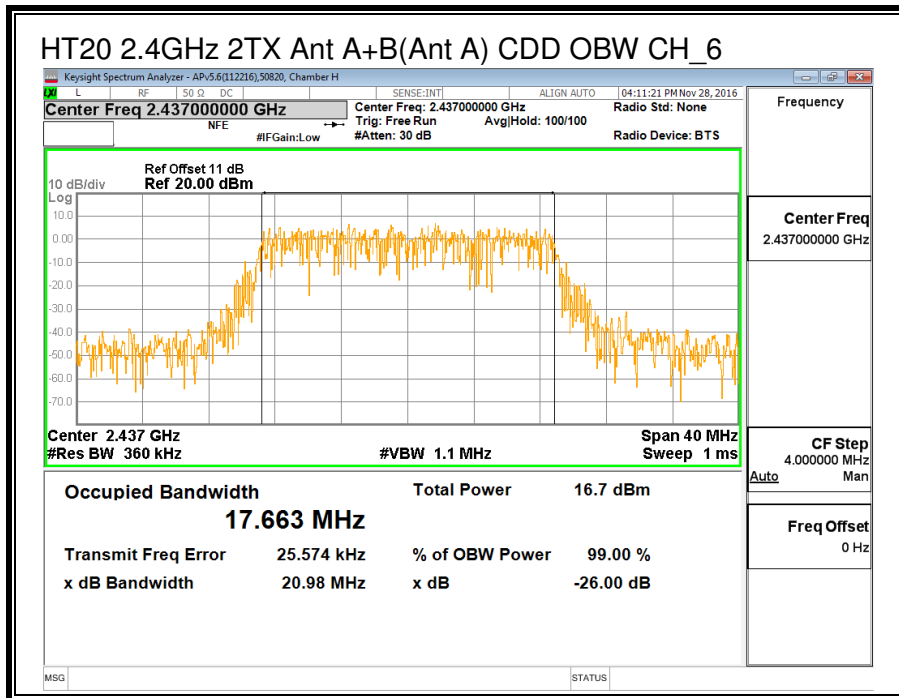
LIMITS

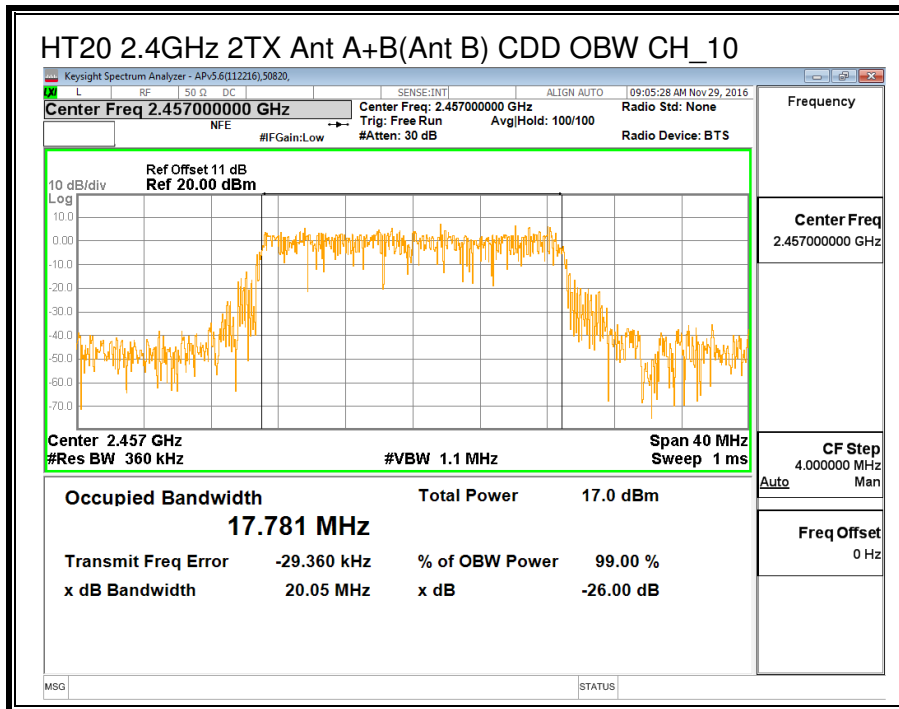
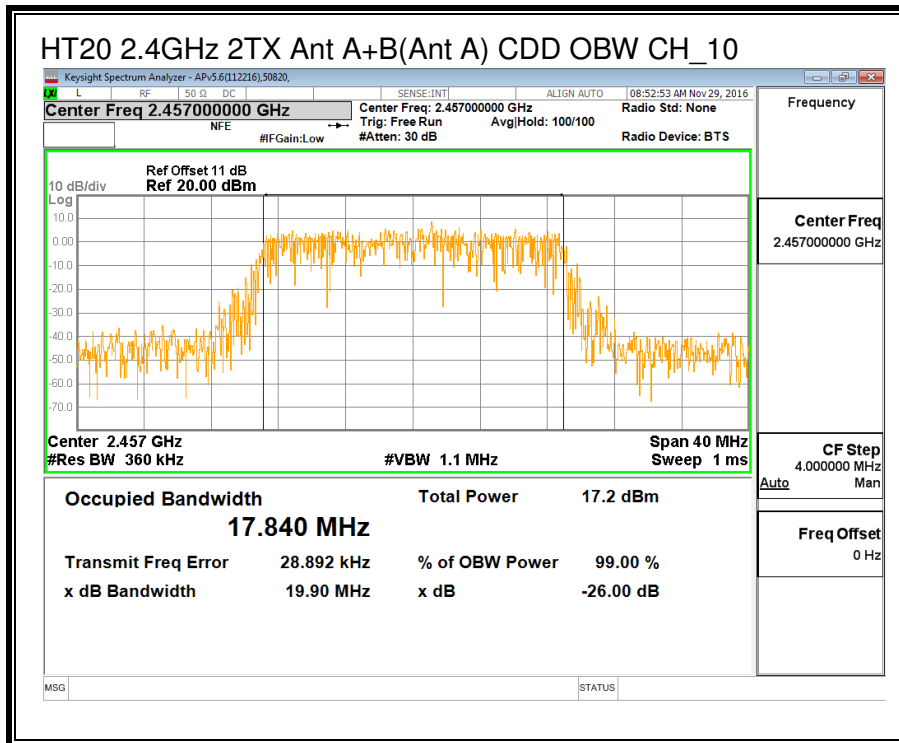
None; for reporting purposes only.

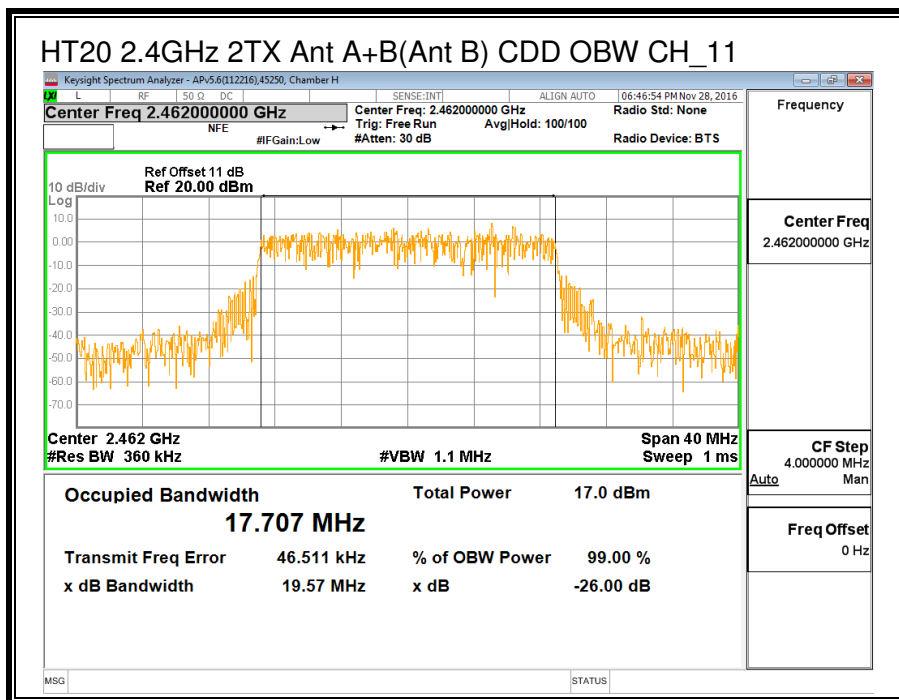
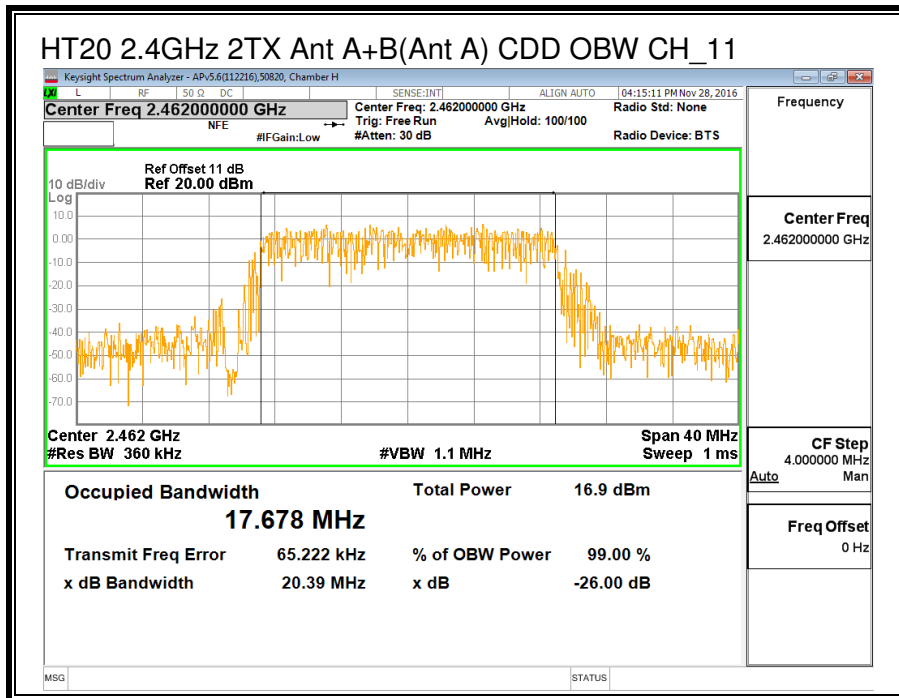
RESULTS

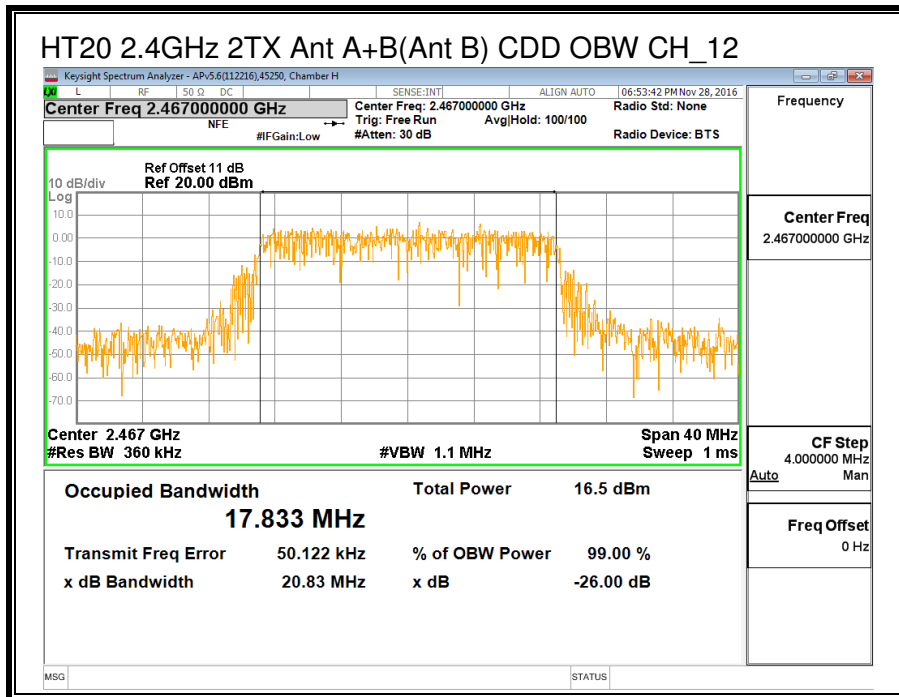
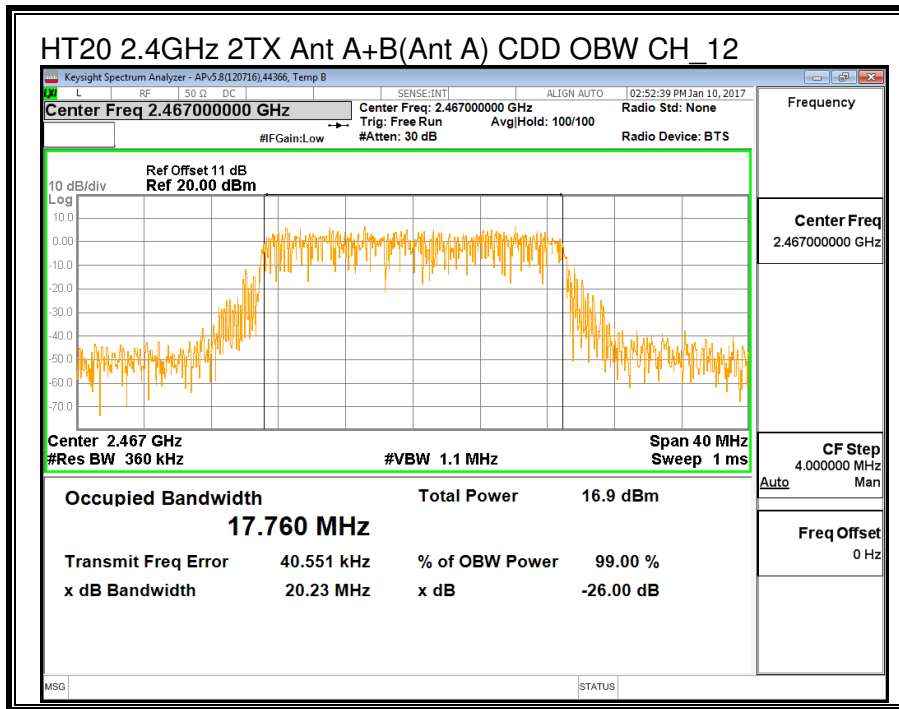
Channel	Frequency (MHz)	99% Bandwidth Ant A (MHz)	99% Bandwidth Ant B (MHz)
Low_1	2412	17.763	17.735
Middle_6	2437	17.663	17.664
High_10	2457	17.840	17.781
High_11	2462	17.678	17.707
High_12	2467	17.760	17.833
High_13	2472	17.783	17.752

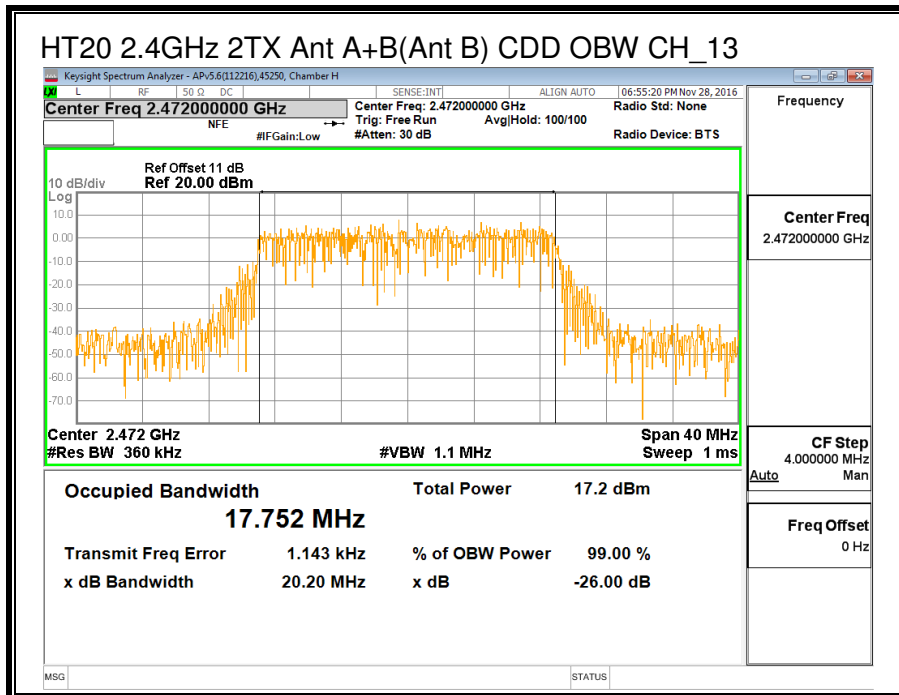
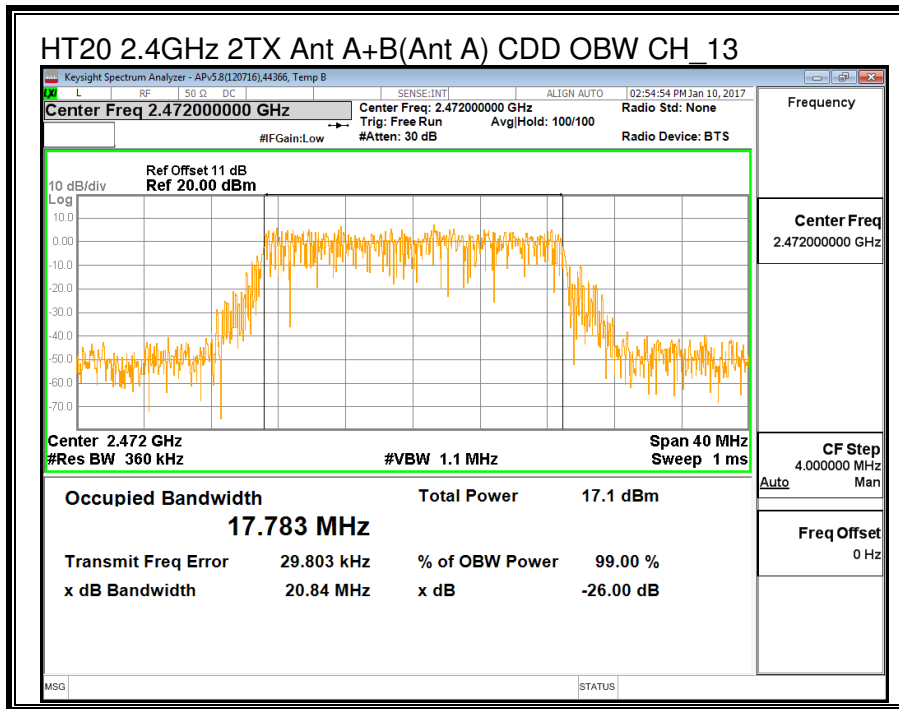












8.5.3. AVERAGE POWER

ID:	39472	Date:	2/7/17
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LIMITS

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a broadband Peak/average RF power meter

The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

RESULTS

Channel	Frequency (MHz)	Power Ant A (MHz)	Power Ant B (dBm)
Low_1	2412	13.90	13.88
Middle_6	2437	15.99	15.92
High_10	2457	15.79	15.87
High_11	2462	12.47	12.49
High_12	2467	9.97	9.89
High_13	2472	-0.12	-0.07

8.5.4. OUTPUT POWER

ID:	39472	Date:	2/7/17
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LIMITS

FCC §15.247

IC RSS-247 (5.4) (4)

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

TEST PROCEDURE

The transmitter output is connected to a broadband Peak/average RF power meter

The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

DIRECTIONAL ANTENNA GAIN

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

Ant A	Ant B	Uncorrelated Chains
Gain	Gain	Directional
(dBi)	(dBi)	Gain
		(dBi)
-0.48	-0.99	-0.73

RESULTS

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
Low_1	2412	-0.73	30.00	30	36	30.00
Mid_6	2437	-0.73	30.00	30	36	30.00
High_10	2457	-0.73	30.00	30	36	30.00
High_11	2462	-0.73	30.00	30	36	30.00
High_12	2467	-0.73	30.00	30	36	30.00
High_13	2472	-0.73	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)	Ant A Meas Power (dBm)	Ant B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margi (dB)
Low_1	2412	20.41	20.28	23.36	30.00	-6.64
Mid_6	2437	22.35	22.67	25.52	30.00	-4.48
High_10	2457	22.60	22.32	25.47	30.00	-4.53
High_11	2462	19.02	18.99	22.02	30.00	-7.98
High_12	2467	16.61	16.55	19.59	30.00	-10.41
High_13	2472	6.98	7.21	10.11	30.00	-19.89

8.5.5. POWER SPECTRAL DENSITY

LIMITS

FCC §15.247

IC RSS-247 (5.2) (2)

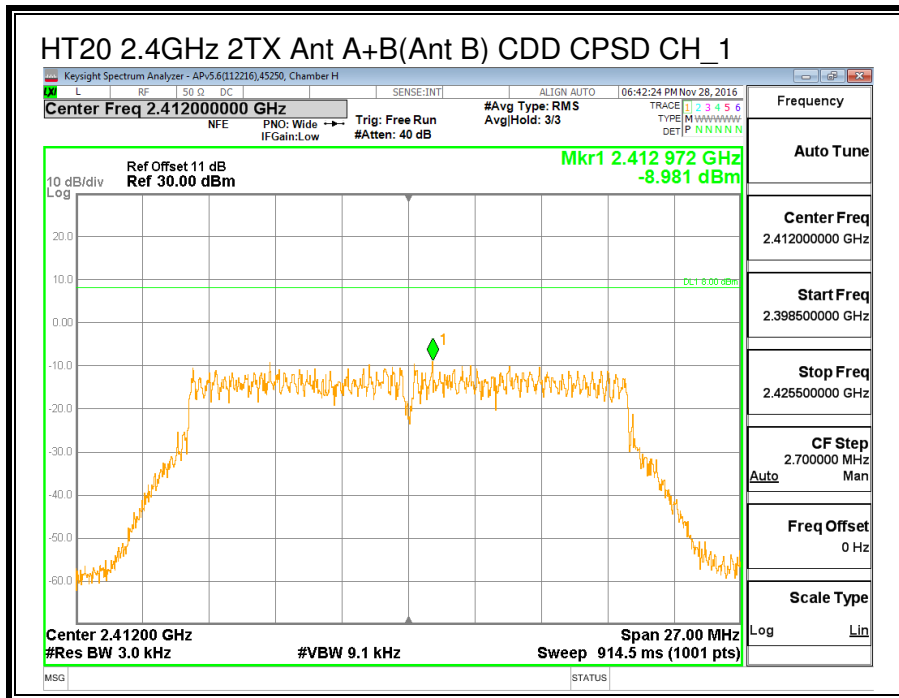
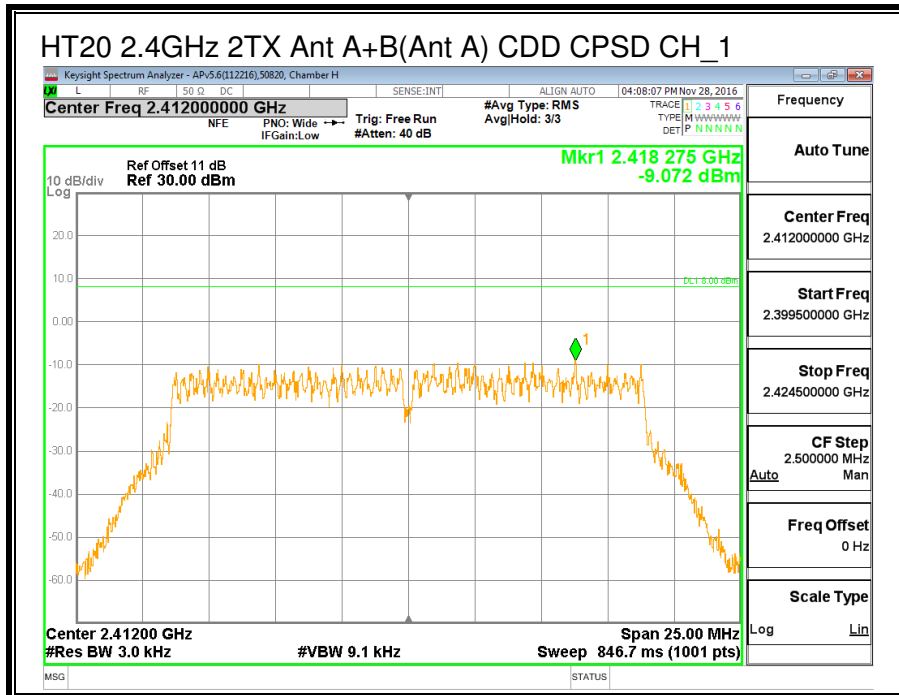
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 KHz band during any time interval of continuous transmissions.

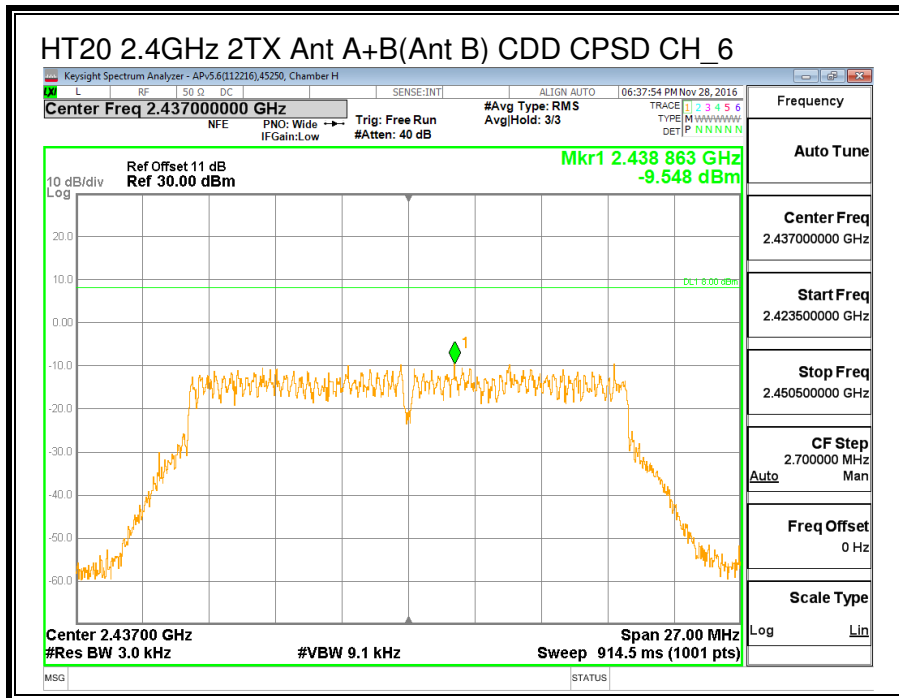
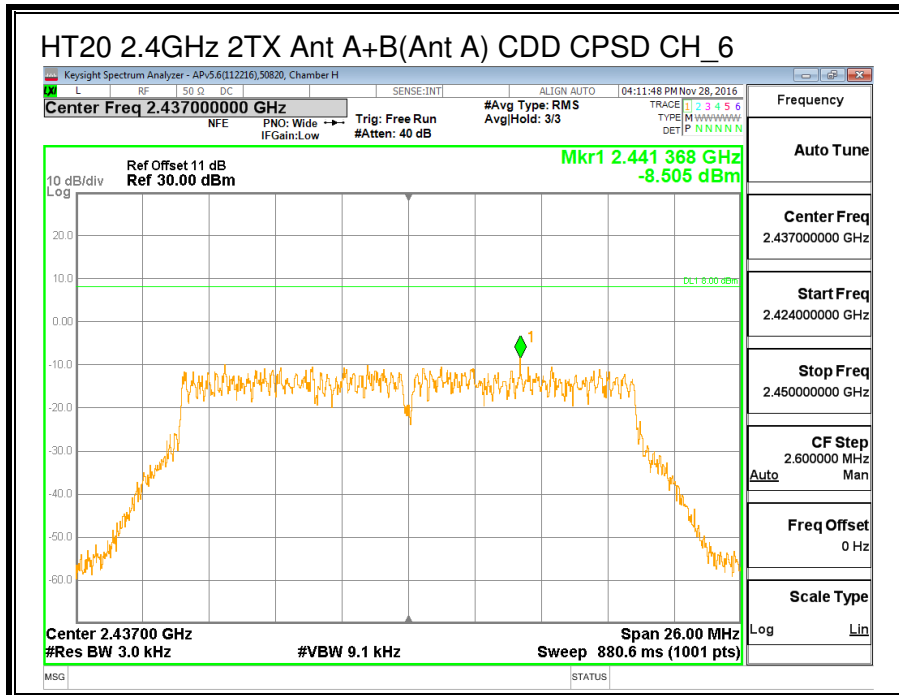
RESULTS

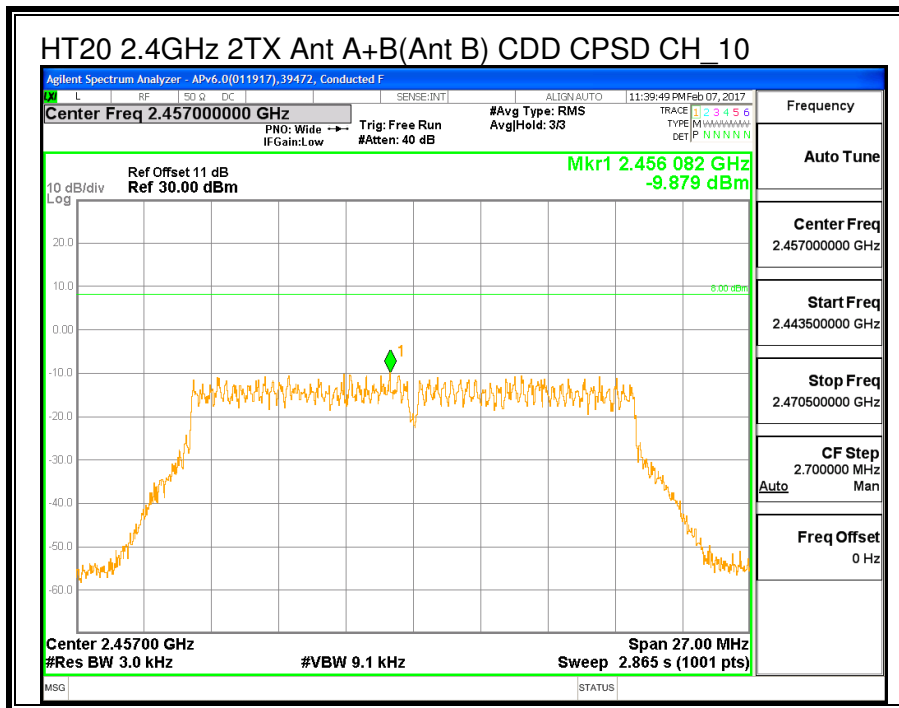
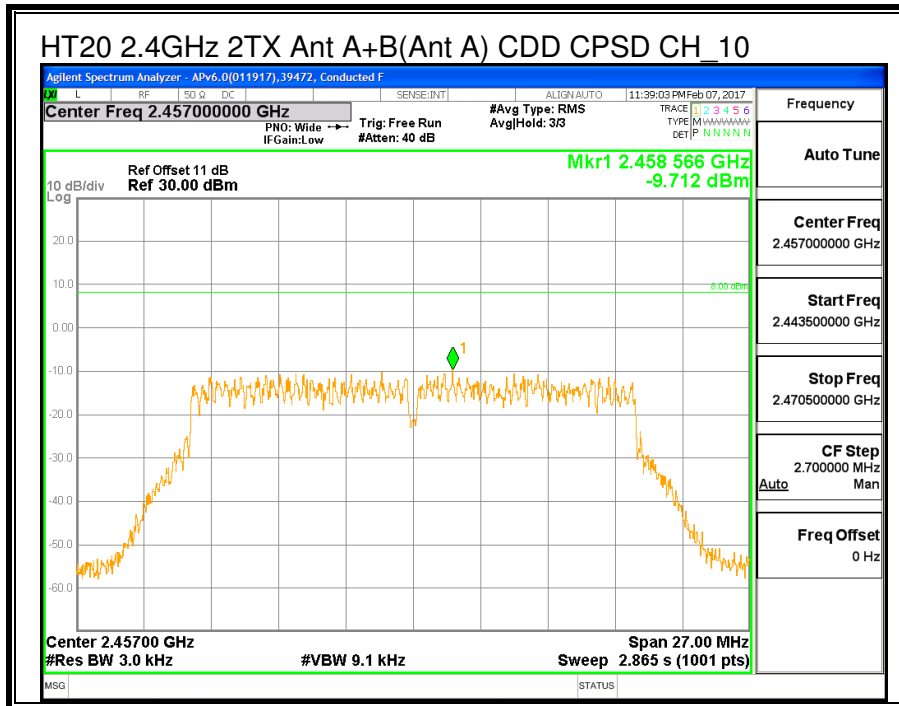
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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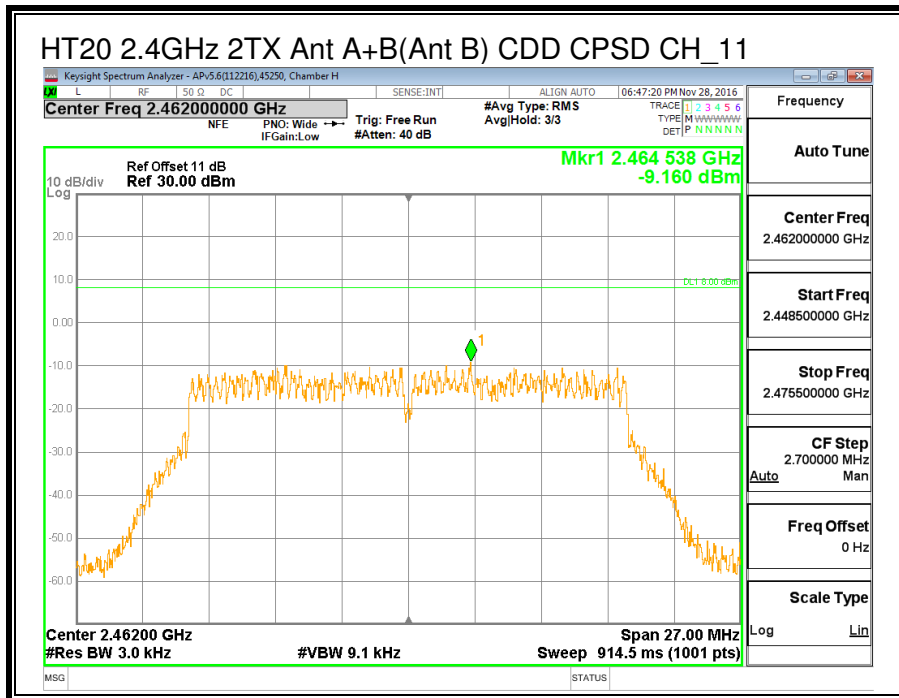
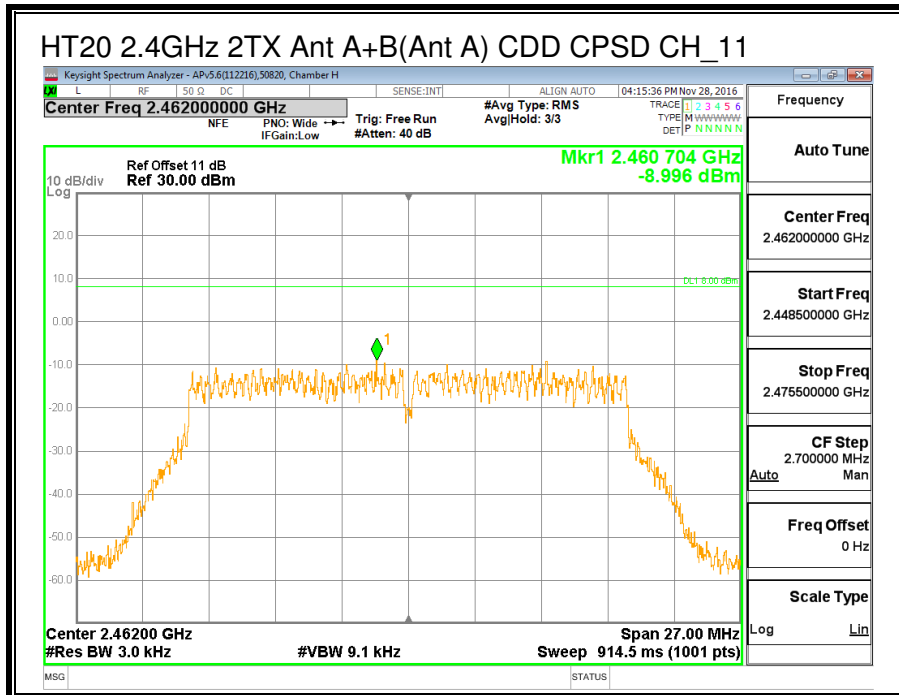
PSD Results

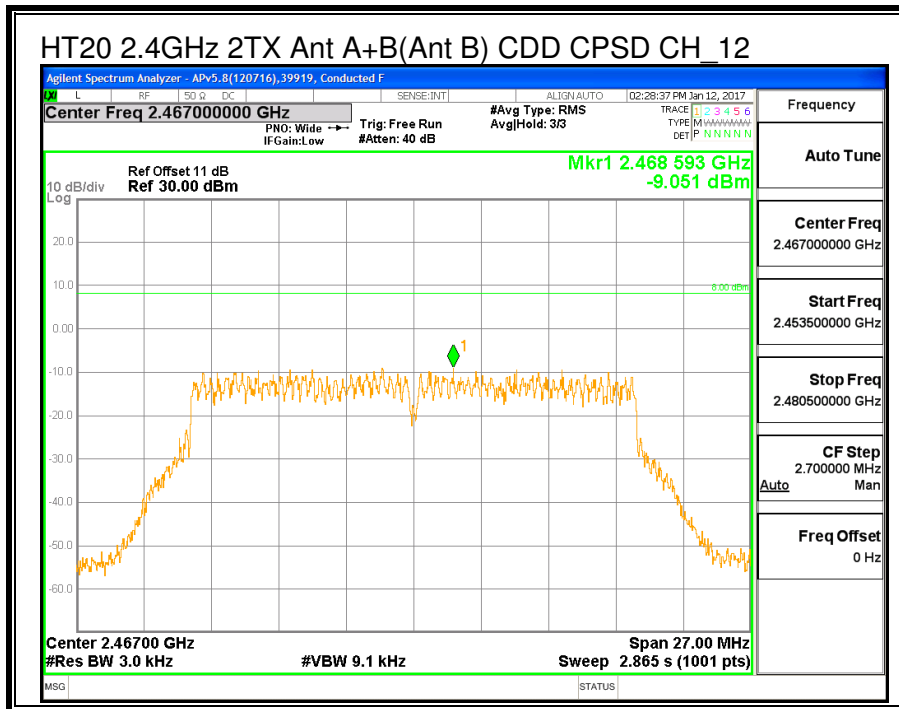
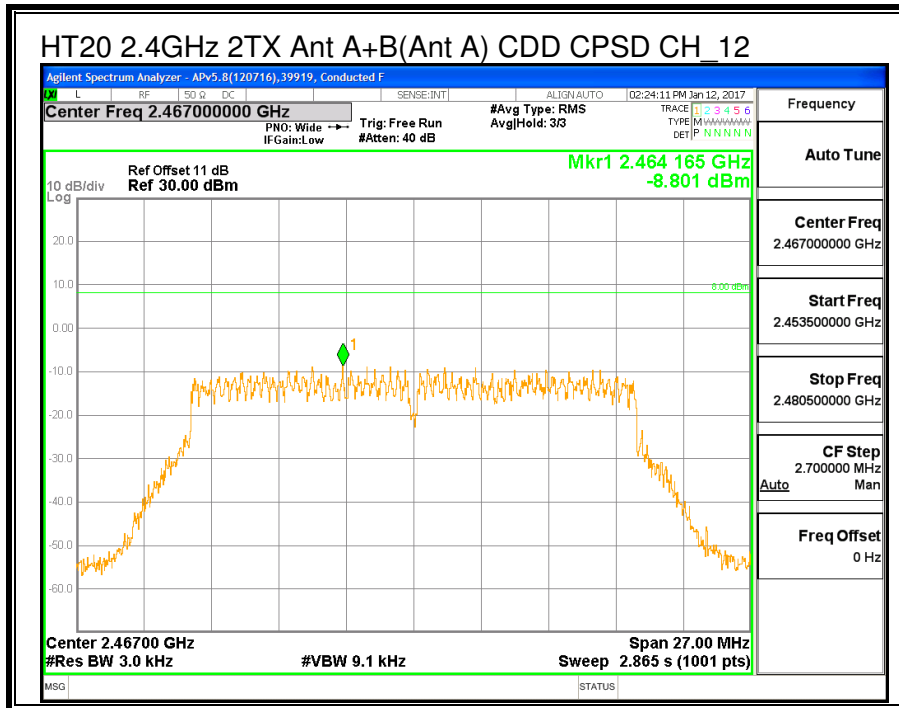
Channel	Frequency (MHz)	Ant A Meas (dBm)	Ant B Meas (dBm)	Total Corr'd PSD (dBm)	Limit (dBm)	Margin (dB)
Low_1	2412	-9.07	-8.98	-6.02	8.0	-14.0
Mid	2437	-8.51	-9.55	-5.98	8.0	-14.0
High_10	2457	-9.71	-9.88	-6.78	8.0	-14.8
High_11	2462	-9.00	-9.16	-6.07	8.0	-14.1
High_12	2467	-8.80	-9.05	-5.91	8.0	-13.9
High_13	2472	-9.31	-9.18	-6.23	8.0	-14.2

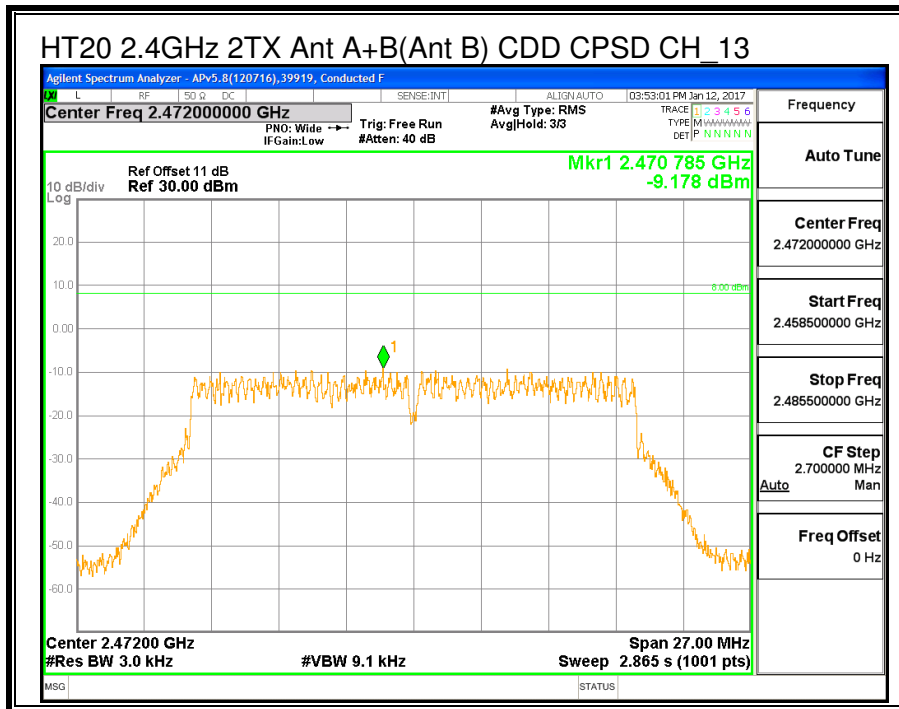
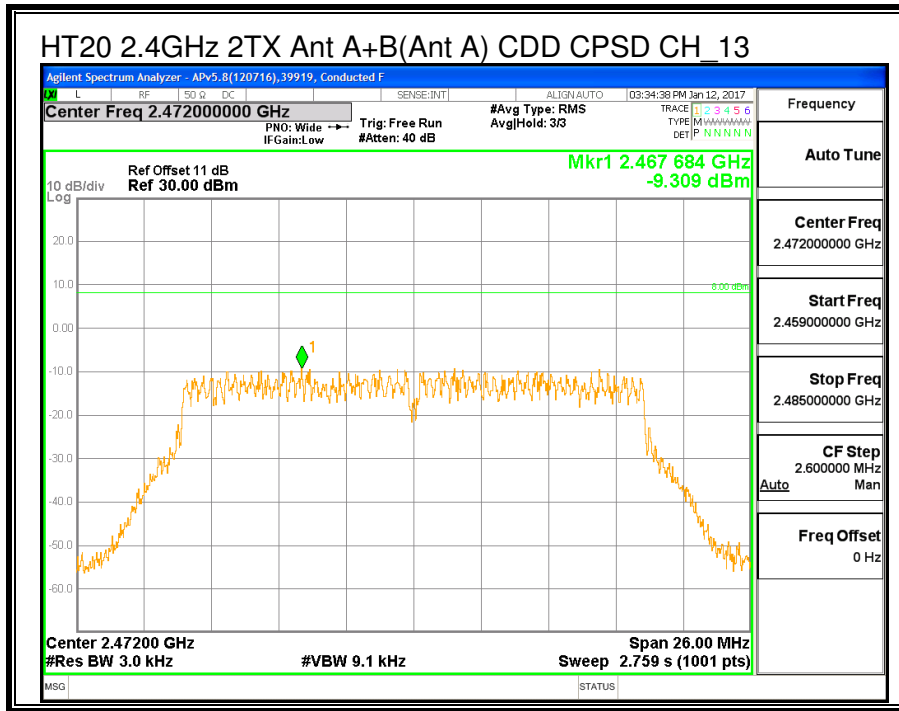










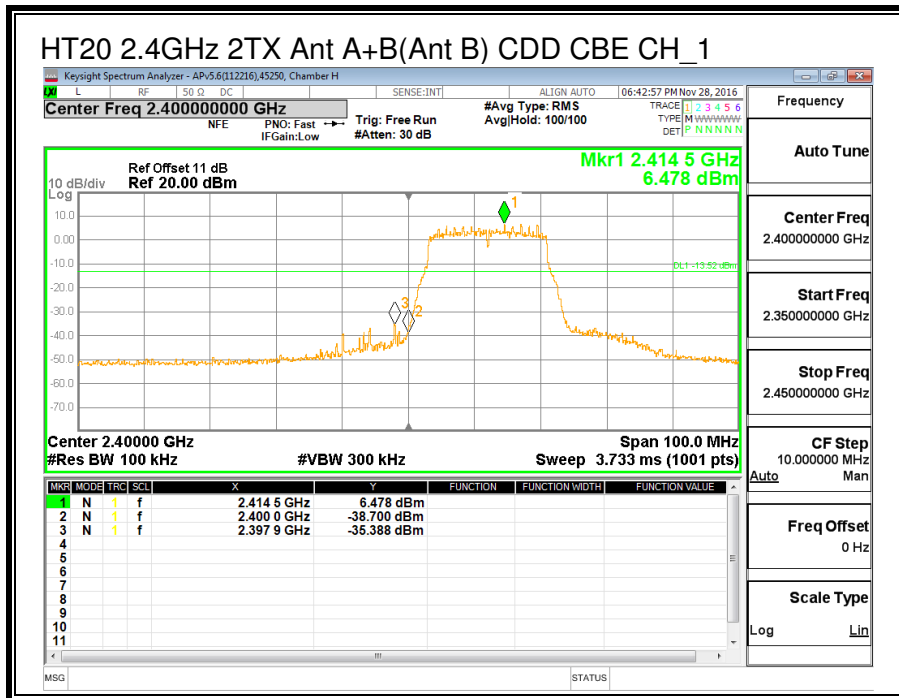
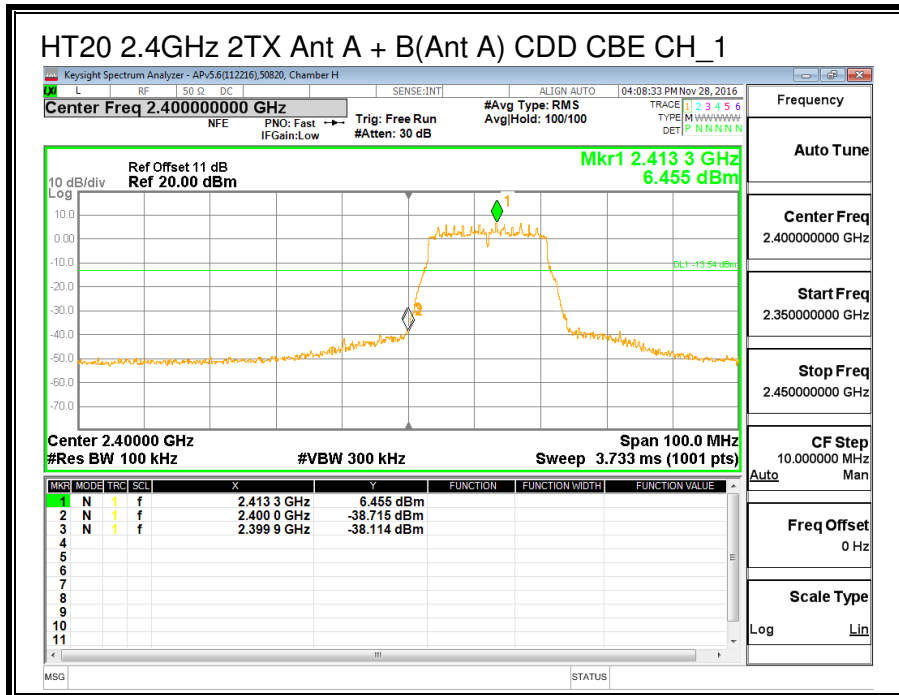


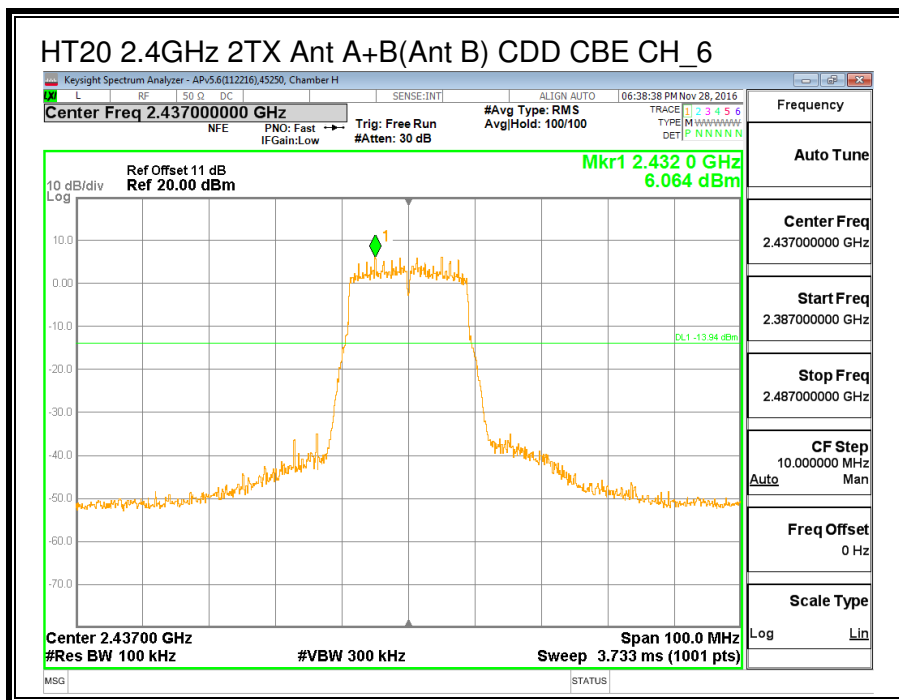
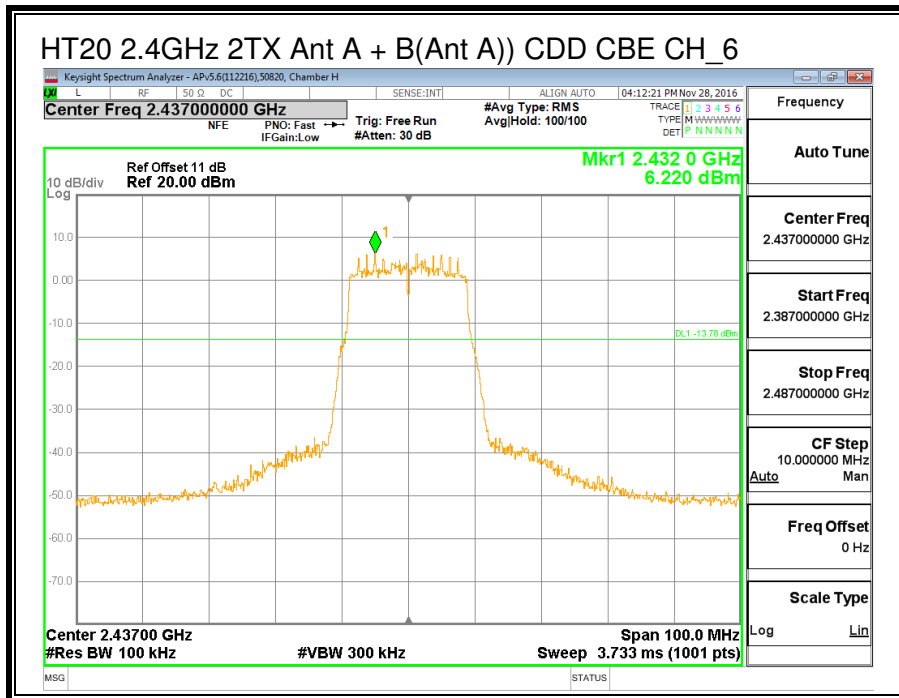
8.5.6. CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS

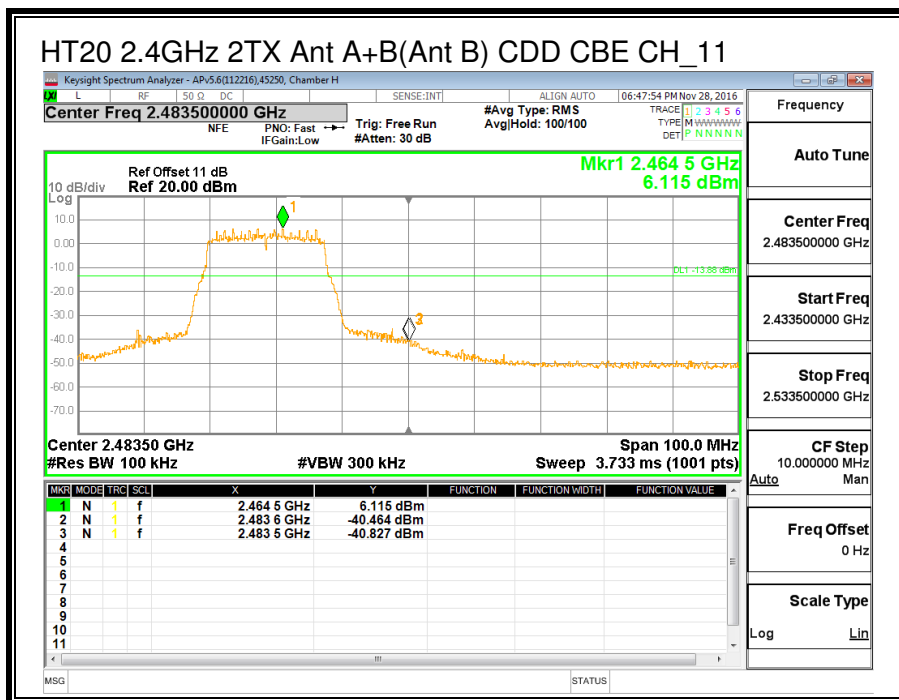
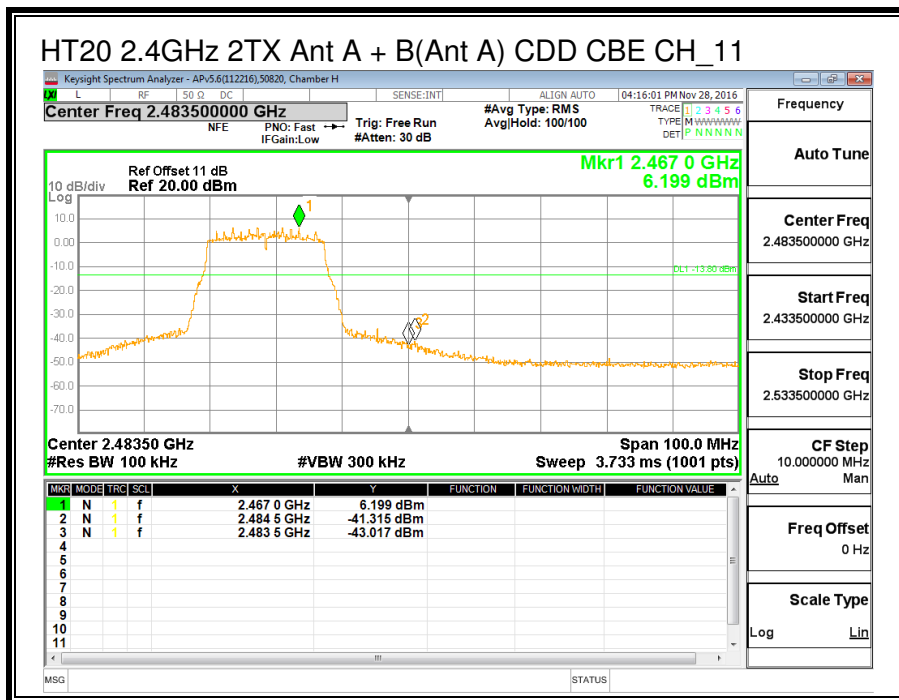
FCC §15.247 (d)

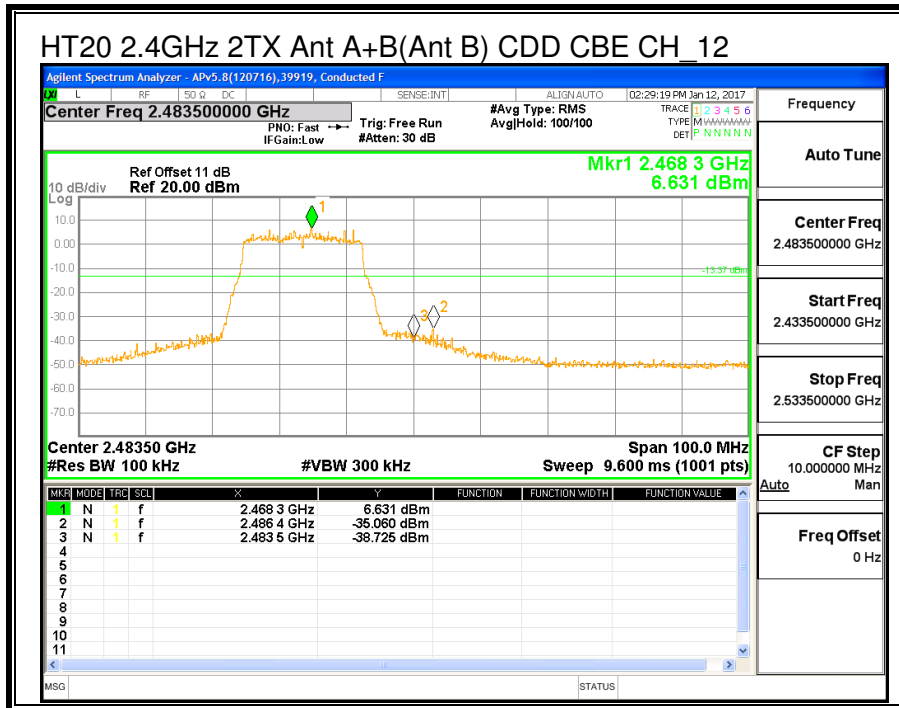
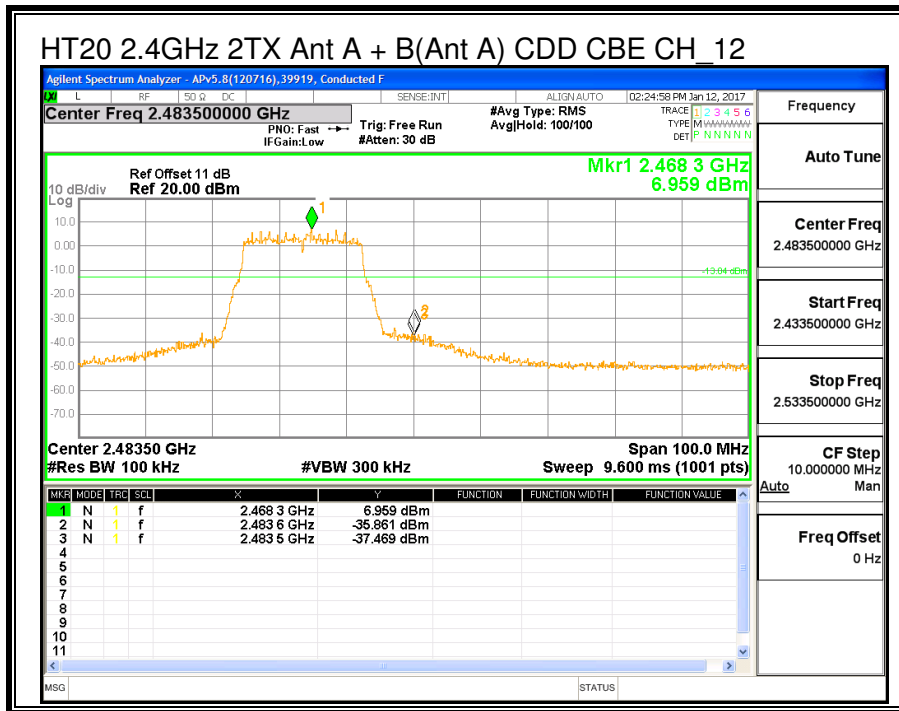
IC RSS-247 (5.5)

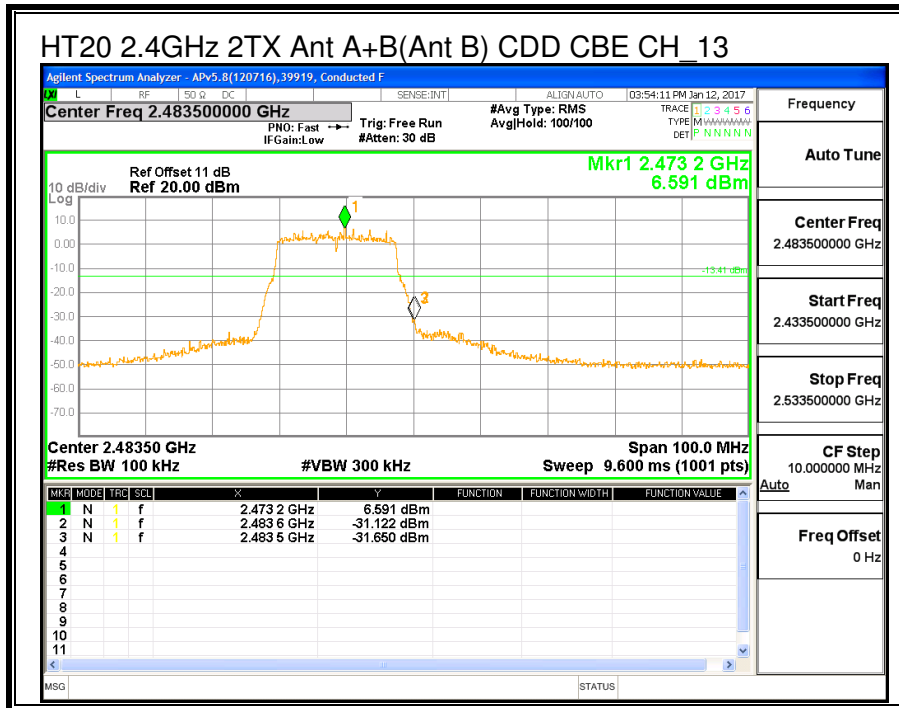
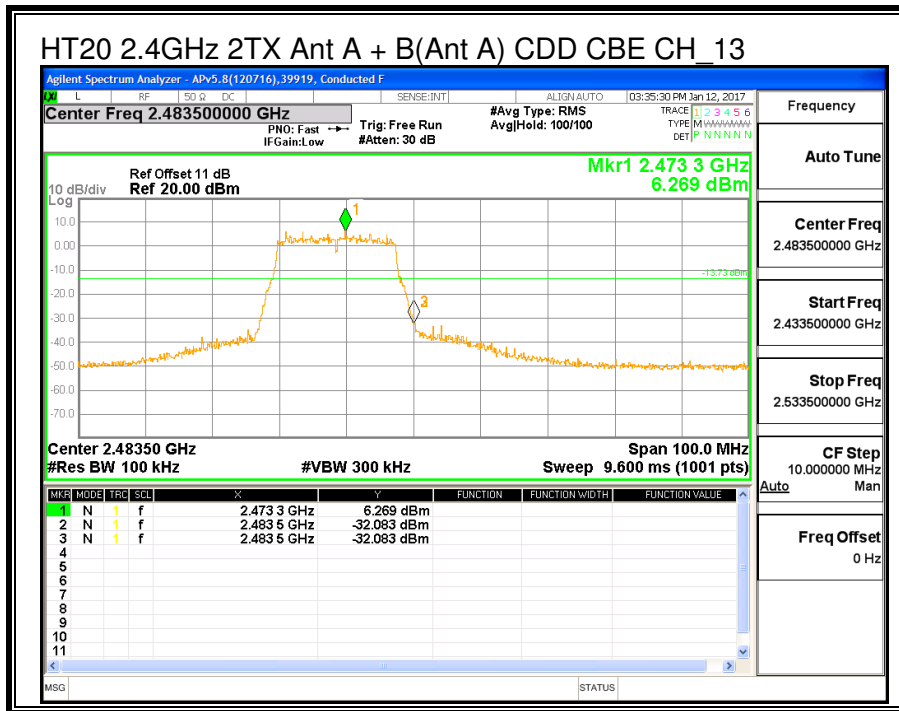
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the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

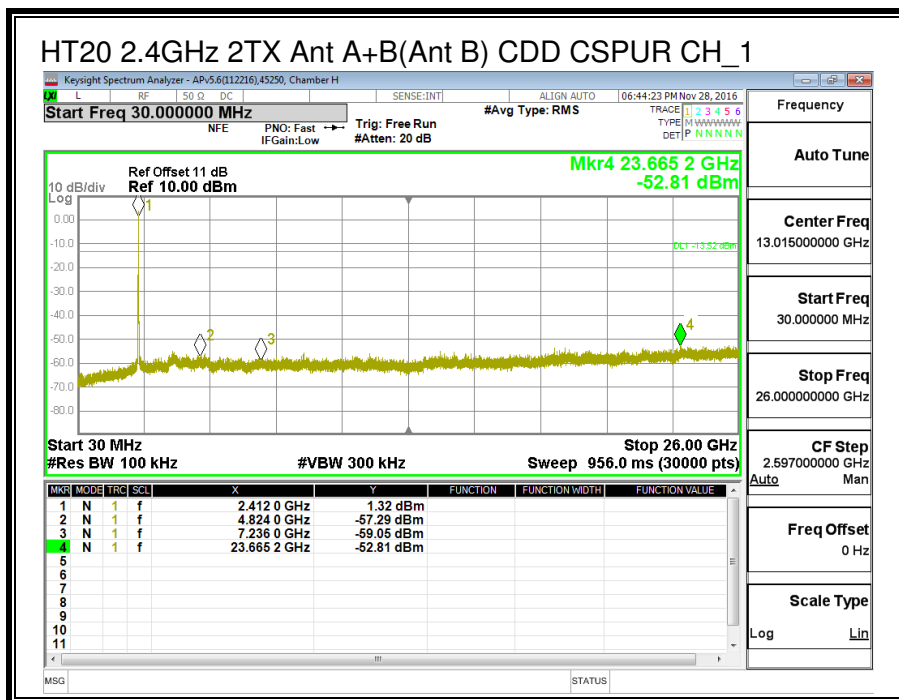
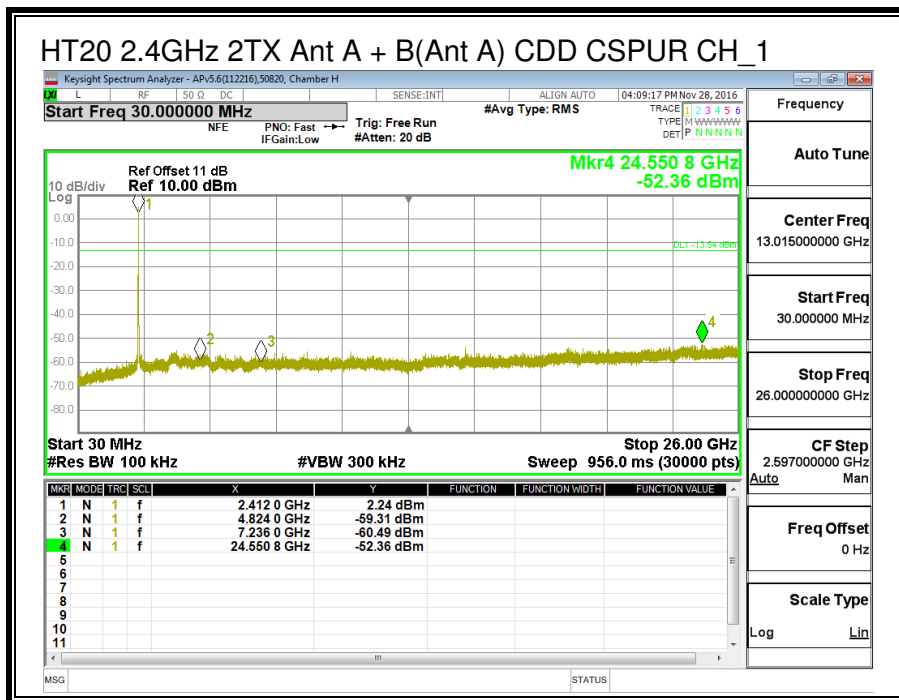


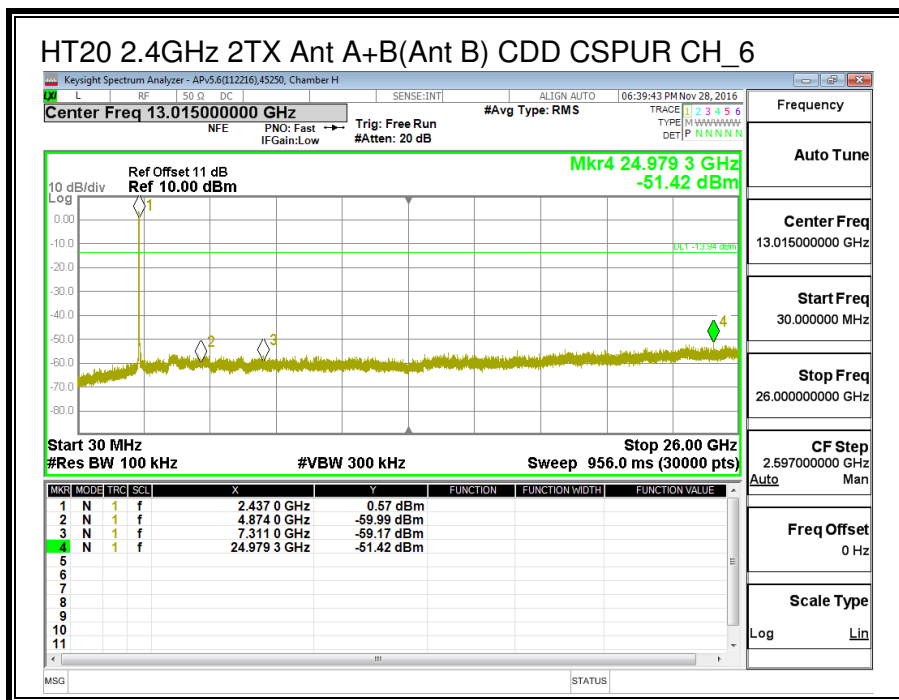
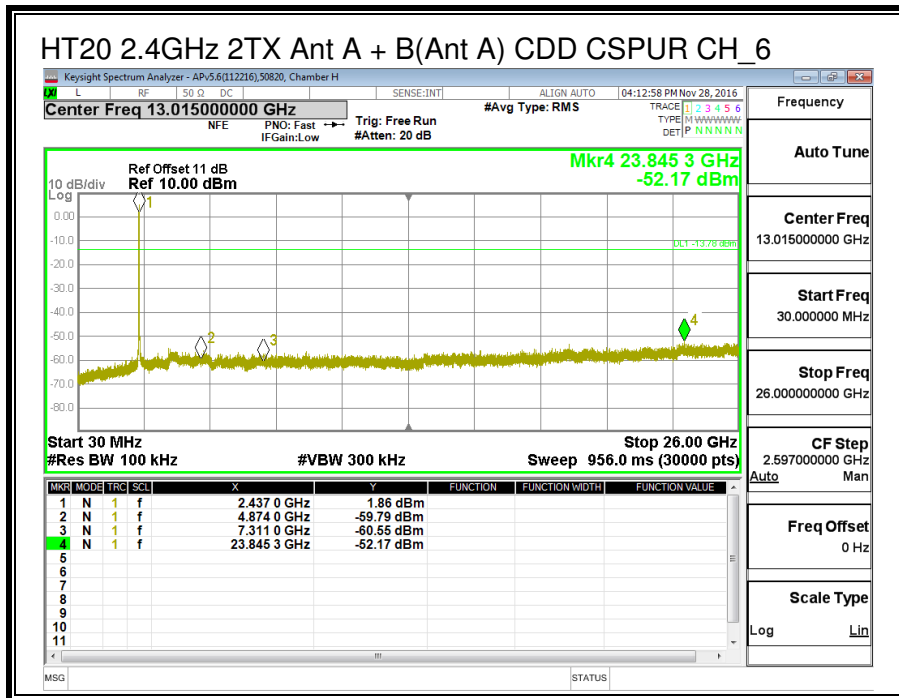


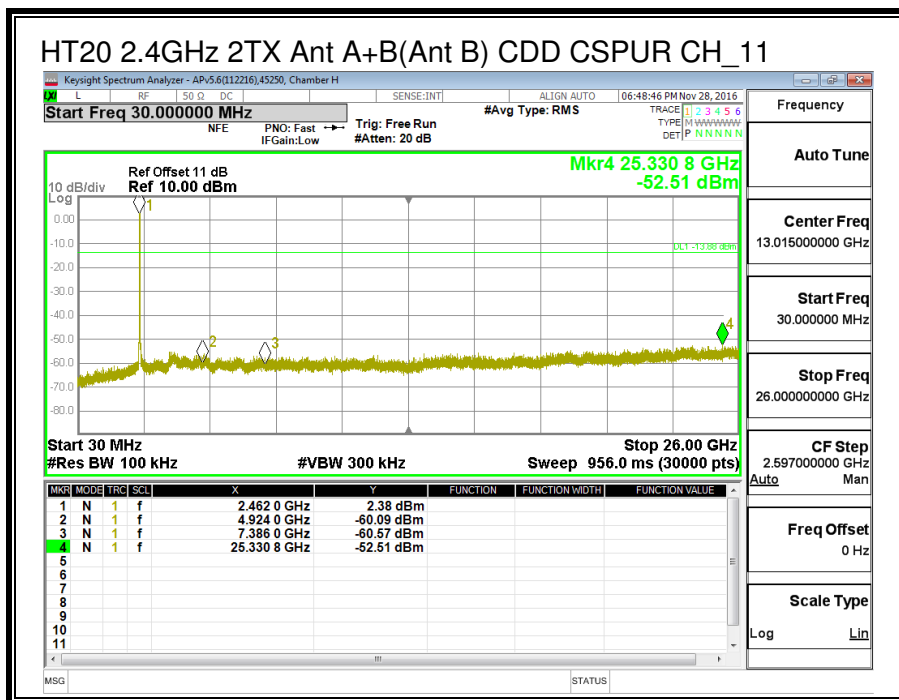
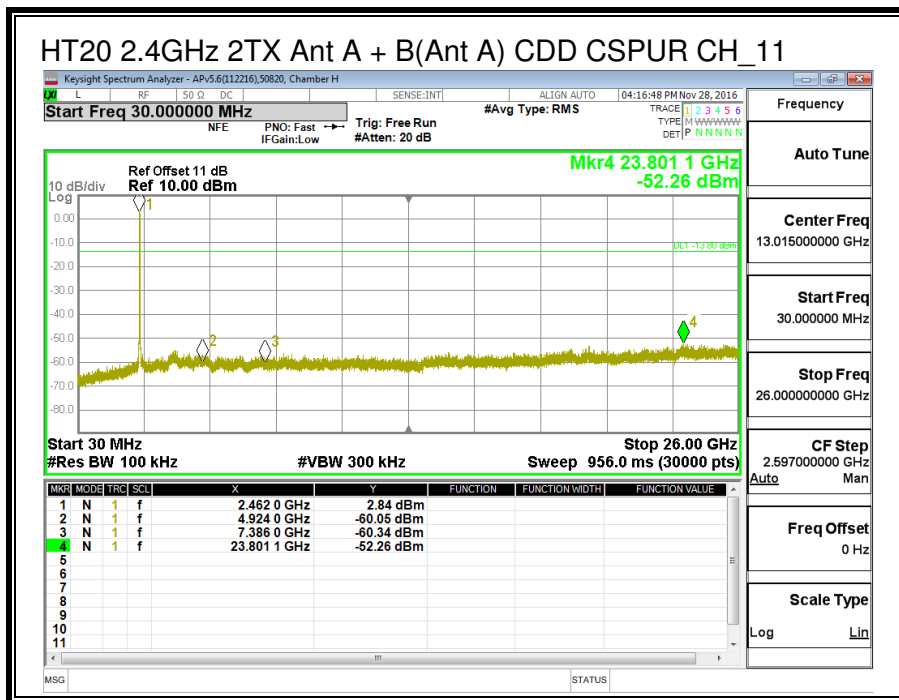


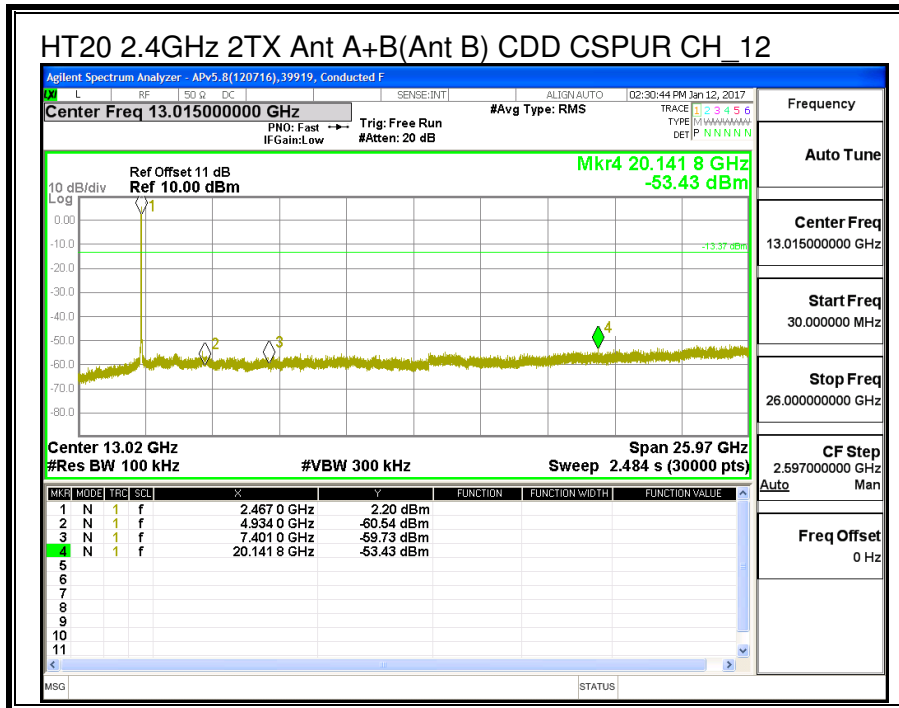
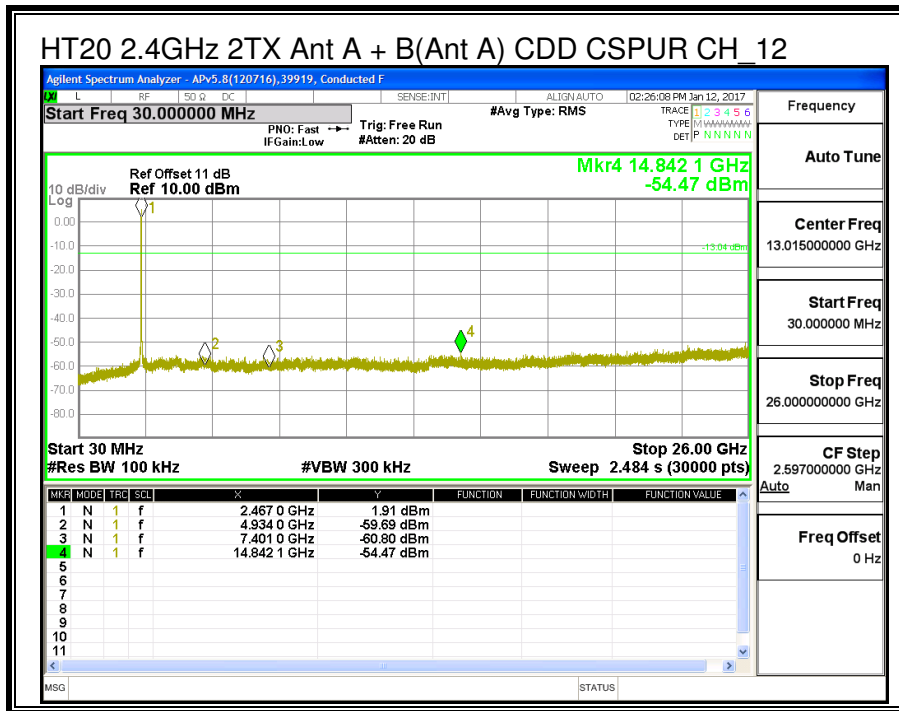


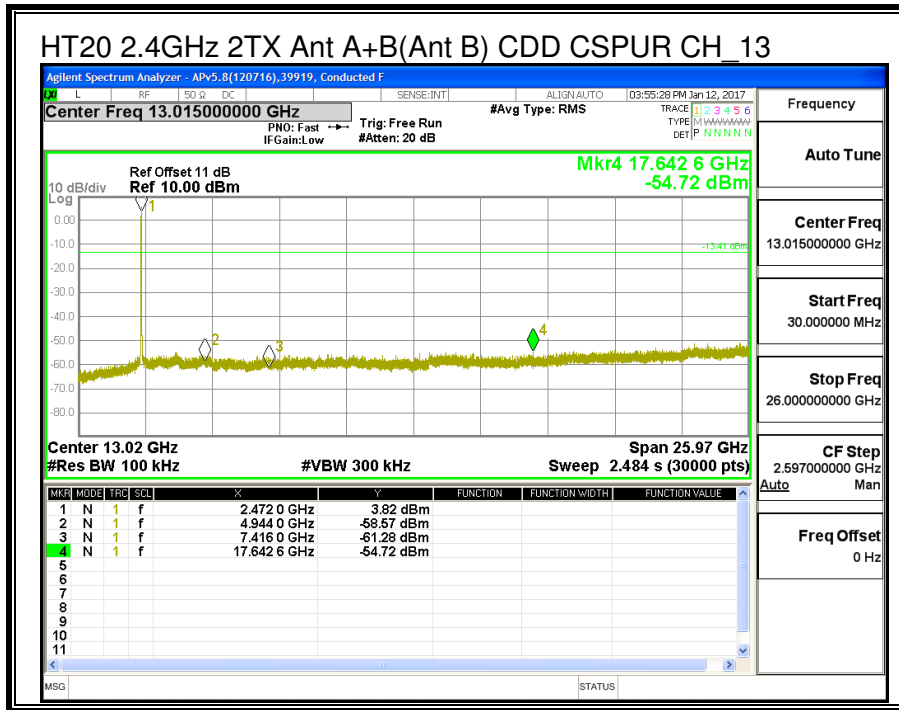
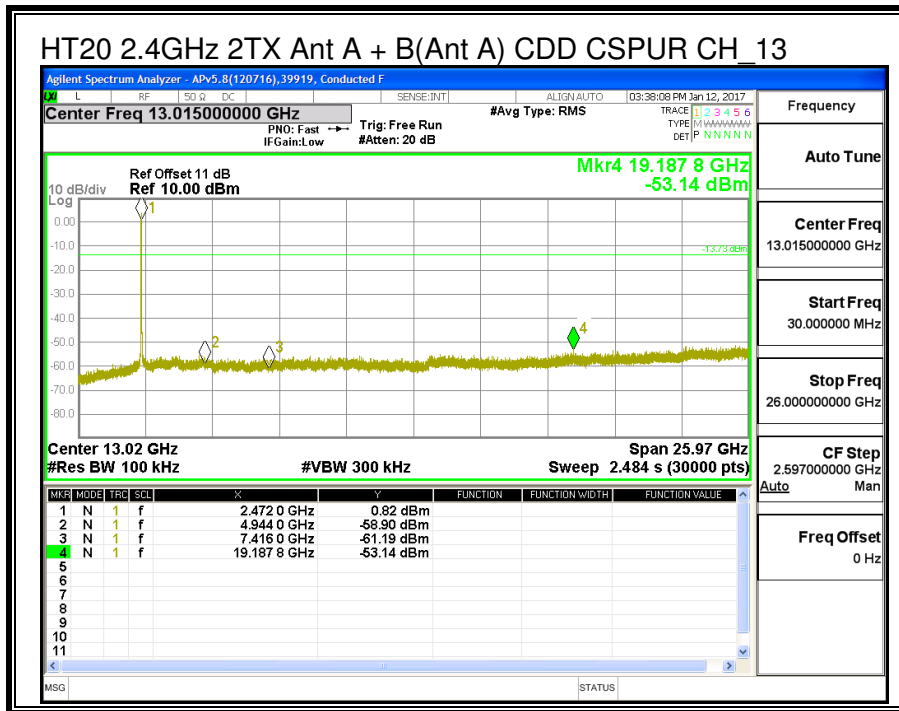












9. RADIATED TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-GEN, Section 8.9 and 8.10.

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

TEST PROCEDURE

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

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

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

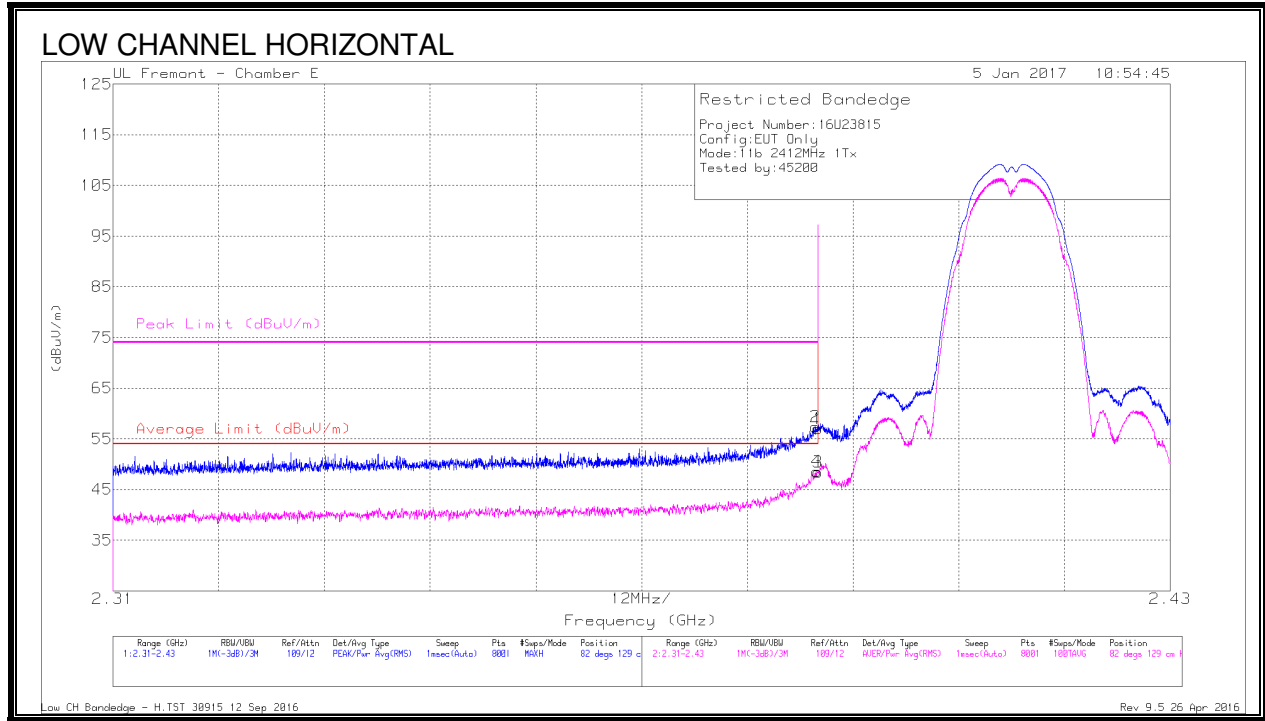
For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions

9.2. TRANSMITTER ABOVE 1 GHz

9.2.1. 11b ANTENNA A SISO MODE IN THE 2.4GHz BAND

AUTHORIZED BANDEDGE (LOW CHANNEL, CH 1)

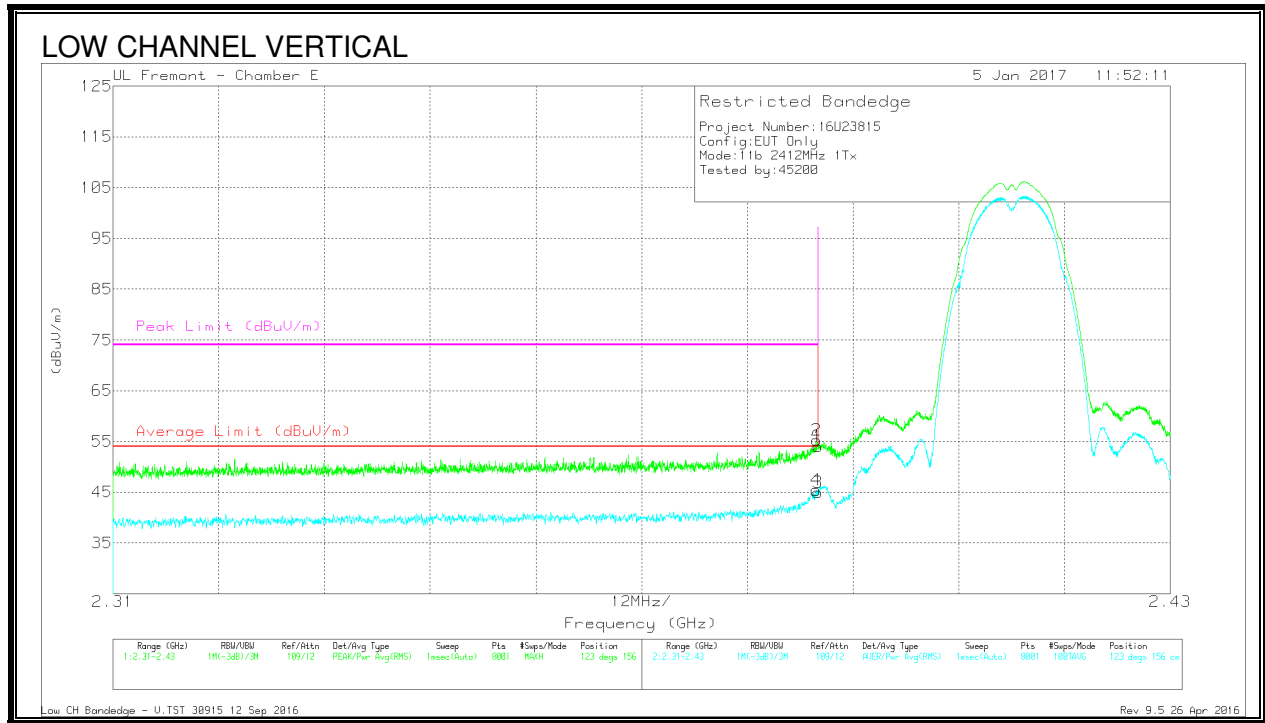


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	44.59	Pk	32.1	-19.7	56.99	-	-	74	-17.01	82	129	H
2	* 2.39	45.01	Pk	32.1	-19.7	57.41	-	-	74	-16.59	82	129	H
3	* 2.39	36	RMS	32.1	-19.7	48.4	54	-5.6	-	-	82	129	H
4	* 2.39	36.14	RMS	32.1	-19.7	48.54	54	-5.46	-	-	82	129	H

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

Pk - Peak detector

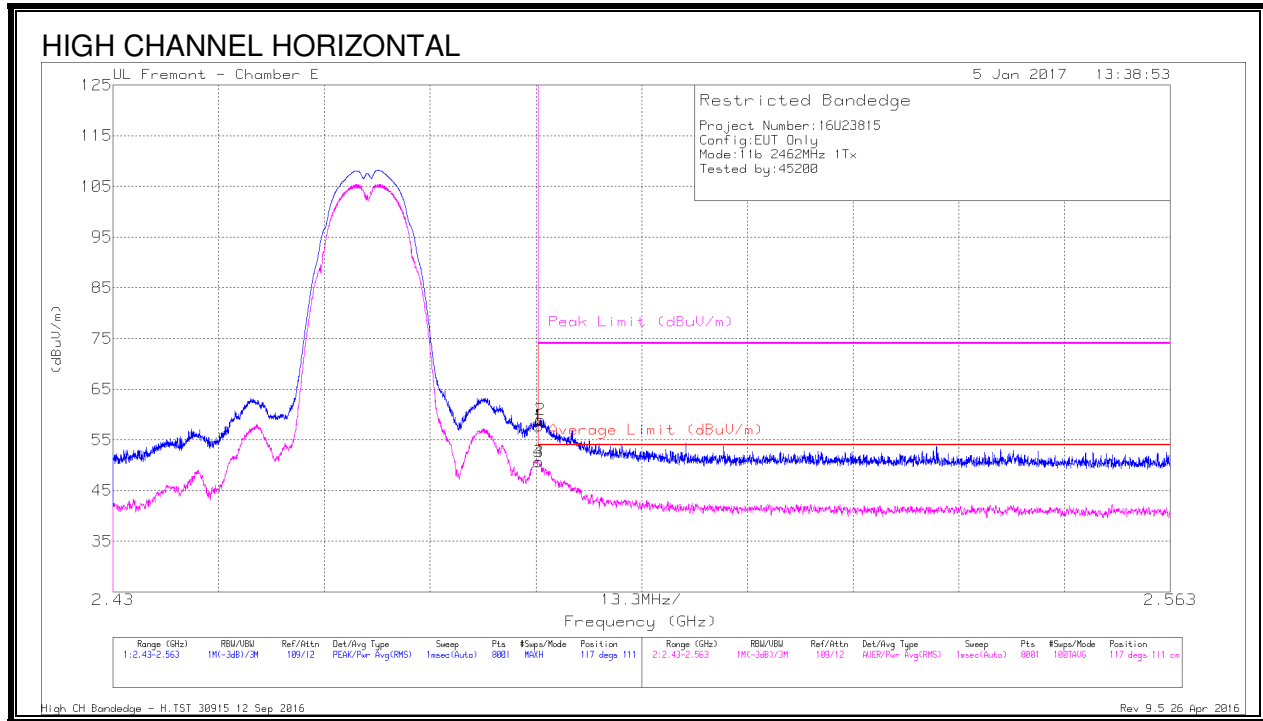
RMS - RMS detection



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl /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	41.59	Pk	32.1	-19.7	53.99	-	-	74	-20.01	123	156	V
2	* 2.39	42.81	Pk	32.1	-19.7	55.21	-	-	74	-18.79	123	156	V
3	* 2.39	32.53	RMS	32.1	-19.7	44.93	54	-9.07	-	-	123	156	V
4	* 2.39	32.99	RMS	32.1	-19.7	45.39	54	-8.61	-	-	123	156	V

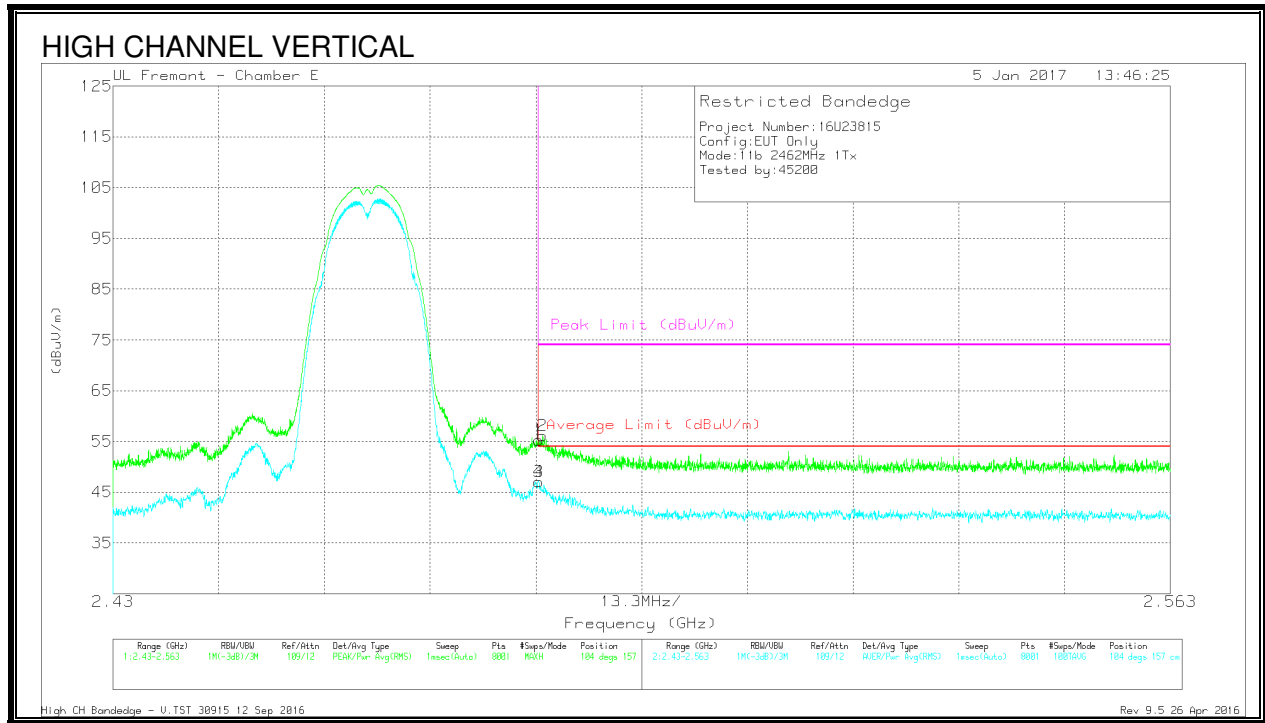
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 11)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 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	45.2	Pk	32.3	-19.7	57.8	-	-	74	-16.2	117	111	H
2	* 2.484	46.33	Pk	32.3	-19.7	58.93	-	-	74	-15.07	117	111	H
3	* 2.484	38.03	RMS	32.3	-19.7	50.63	54	-3.37	-	-	117	111	H
4	* 2.484	38.09	RMS	32.3	-19.7	50.69	54	-3.31	-	-	117	111	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection



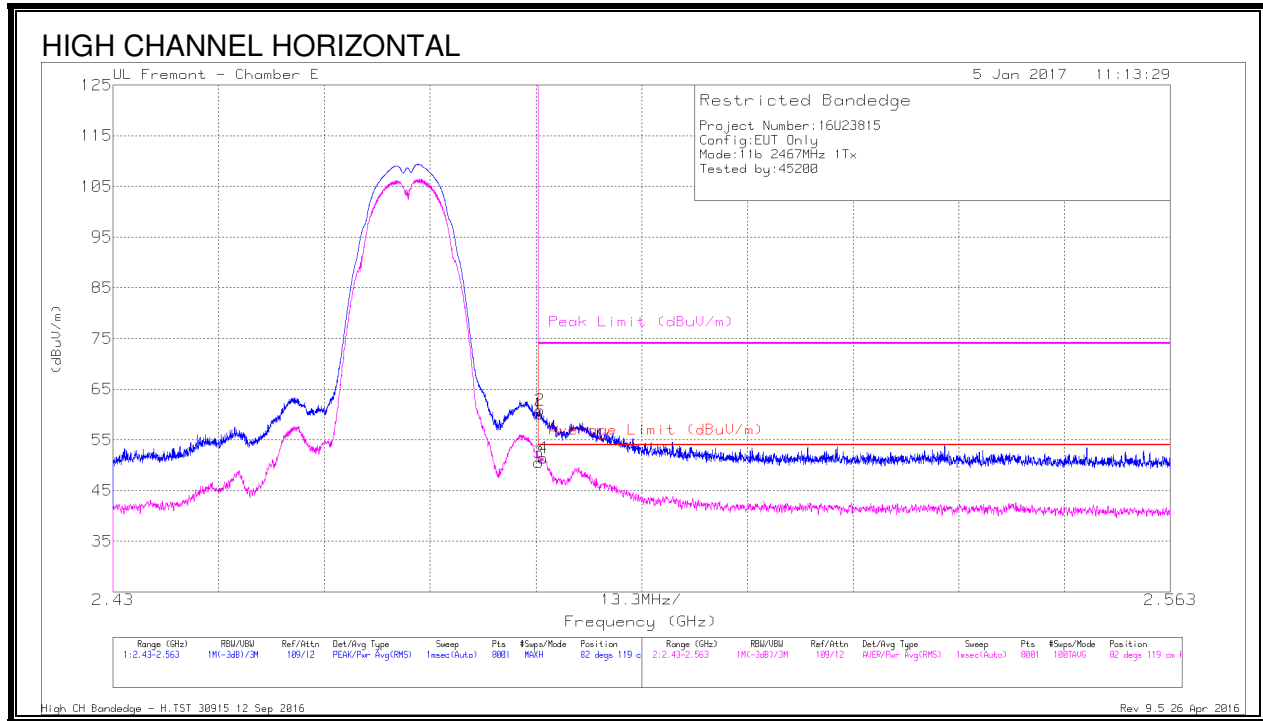
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT711 (dB/m)	Amp/Cbl /Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.67	Pk	32.3	-19.7	55.27	-	-	74	-18.73	104	157	V
2	* 2.484	43.49	Pk	32.3	-19.7	56.09	-	-	74	-17.91	104	157	V
3	* 2.484	34.42	RMS	32.3	-19.7	47.02	54	-6.98	-	-	104	157	V
4	* 2.484	34.47	RMS	32.3	-19.7	47.07	54	-6.93	-	-	104	157	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 12)

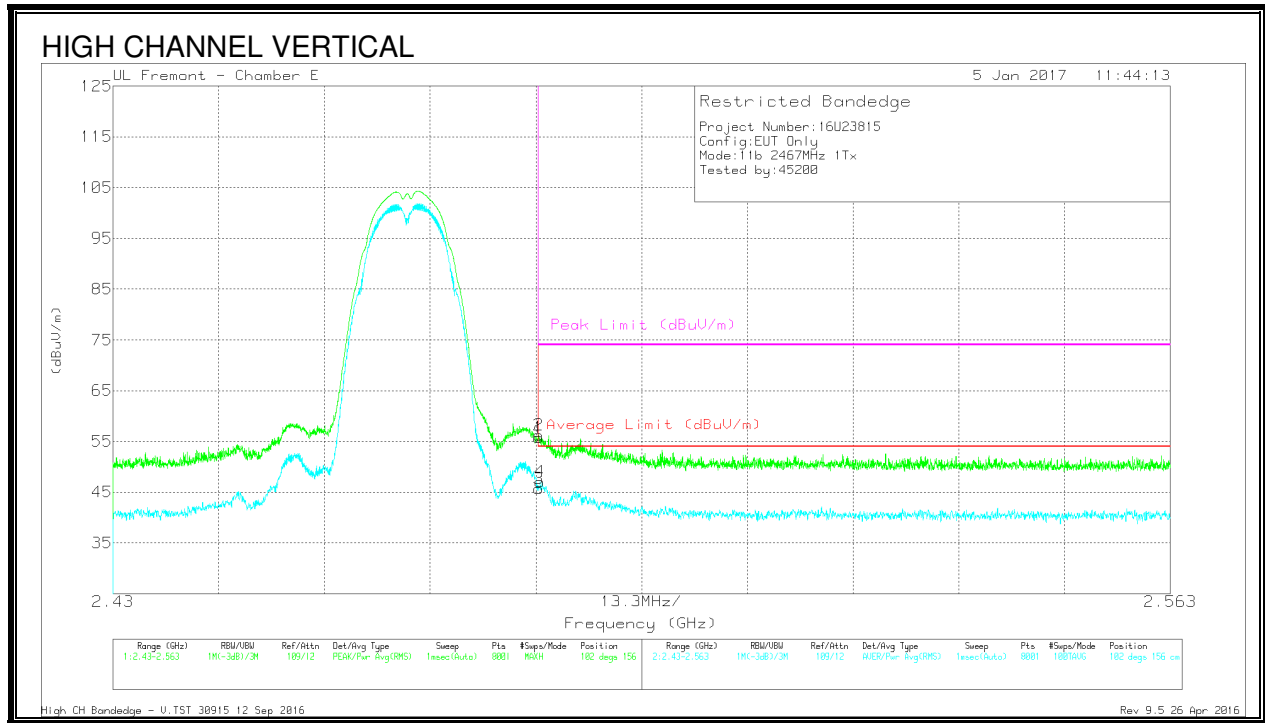


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl /Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	47.49	Pk	32.3	-19.7	60.09	-	-	74	-13.91	82	119	H
2	* 2.484	48.26	Pk	32.3	-19.7	60.86	-	-	74	-13.14	82	119	H
3	* 2.484	37.91	RMS	32.3	-19.7	50.51	54	-3.49	-	-	82	119	H
4	* 2.484	38.85	RMS	32.3	-19.7	51.45	54	-2.55	-	-	82	119	H

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

Pk - Peak detector

RMS - RMS detection



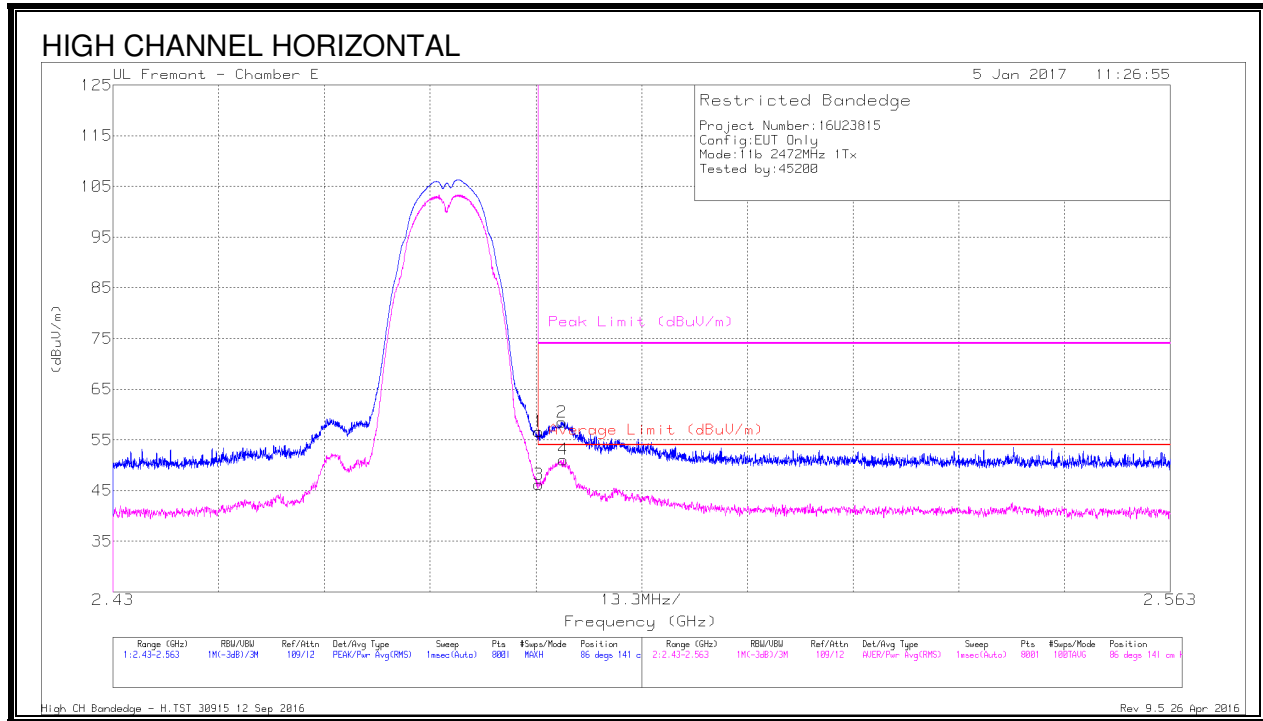
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	43.17	Pk	32.3	-19.7	55.77	-	-	74	-18.23	102	156	V
2	* 2.484	43.63	Pk	32.3	-19.7	56.23	-	-	74	-17.77	102	156	V
3	* 2.484	33.1	RMS	32.3	-19.7	45.7	54	-8.3	-	-	102	156	V
4	* 2.484	34.51	RMS	32.3	-19.7	47.11	54	-6.89	-	-	102	156	V

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

Pk - Peak detector

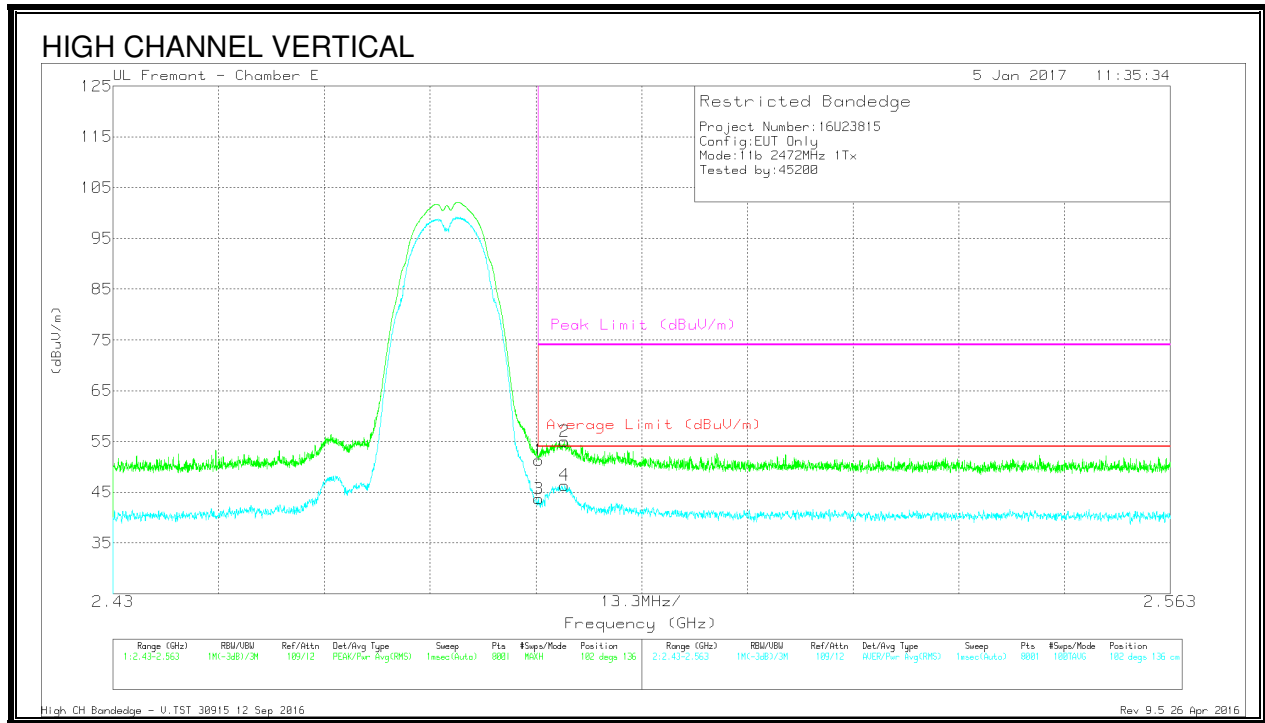
RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 13)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	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	* 2.484	44	Pk	32.3	-19.7	56.6	-	-	74	-17.4	86	141	H
2	* 2.486	46.02	Pk	32.3	-19.8	58.52	-	-	74	-15.48	86	141	H
3	* 2.484	33.59	RMS	32.3	-19.7	46.19	54	-7.81	-	-	86	141	H
4	* 2.487	38.6	RMS	32.3	-19.8	51.1	54	-2.9	-	-	86	141	H

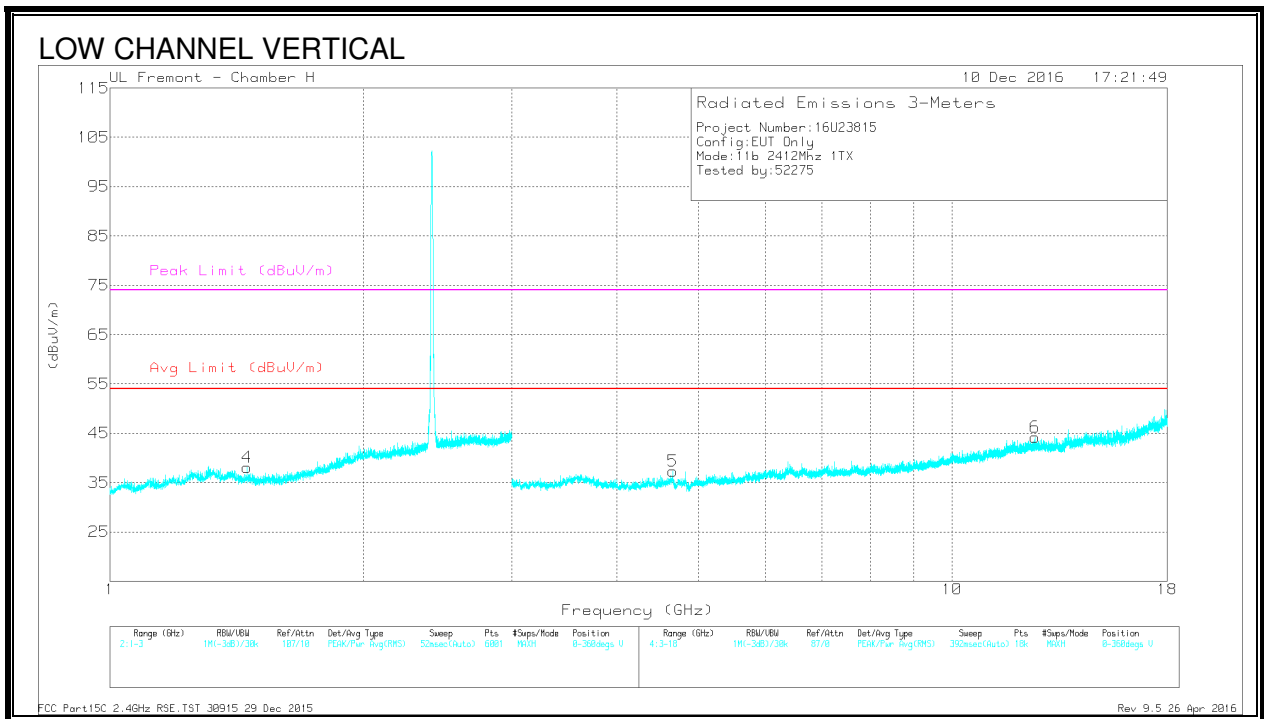
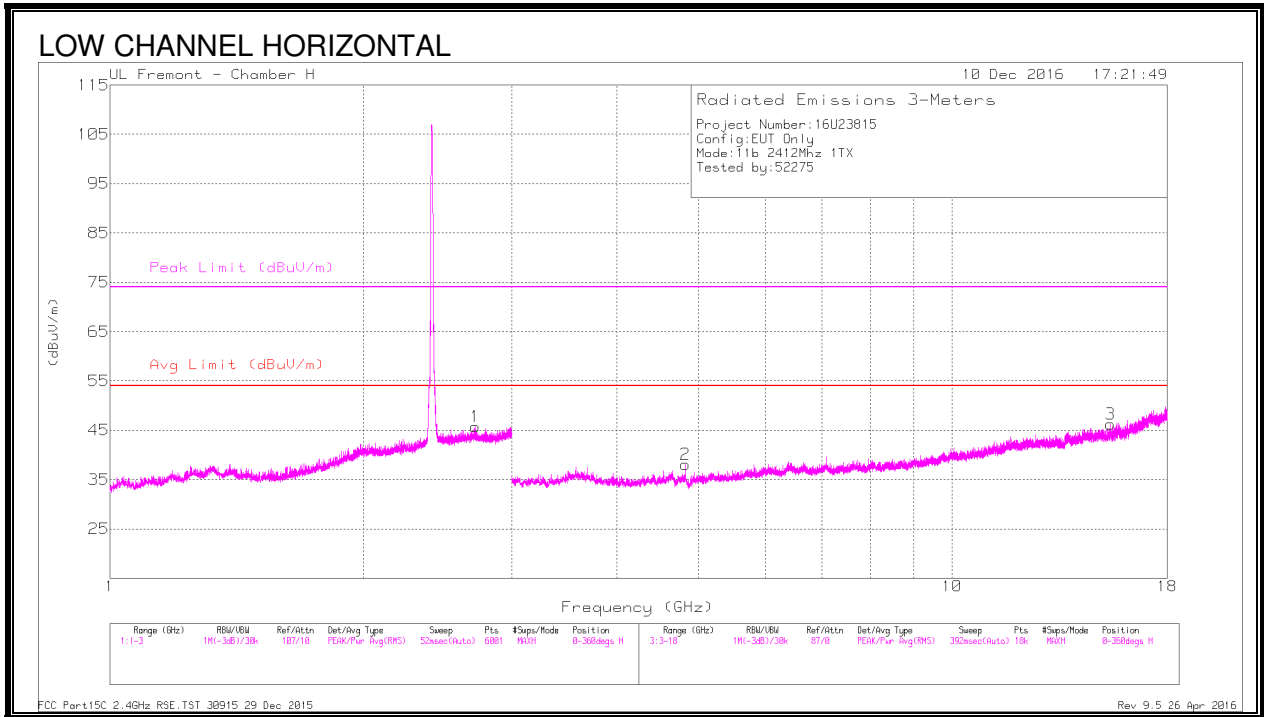
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection



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)	Polarity
1	* 2.484	38.73	Pk	32.3	-19.7	51.33	-	-	74	-22.67	102	136	V
2	* 2.487	42.47	Pk	32.3	-19.8	54.97	-	-	74	-19.03	102	136	V
3	* 2.484	31.11	RMS	32.3	-19.7	43.71	54	-10.29	-	-	102	136	V
4	* 2.487	33.88	RMS	32.3	-19.8	46.38	54	-7.62	-	-	102	136	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)



Radiated Emissions

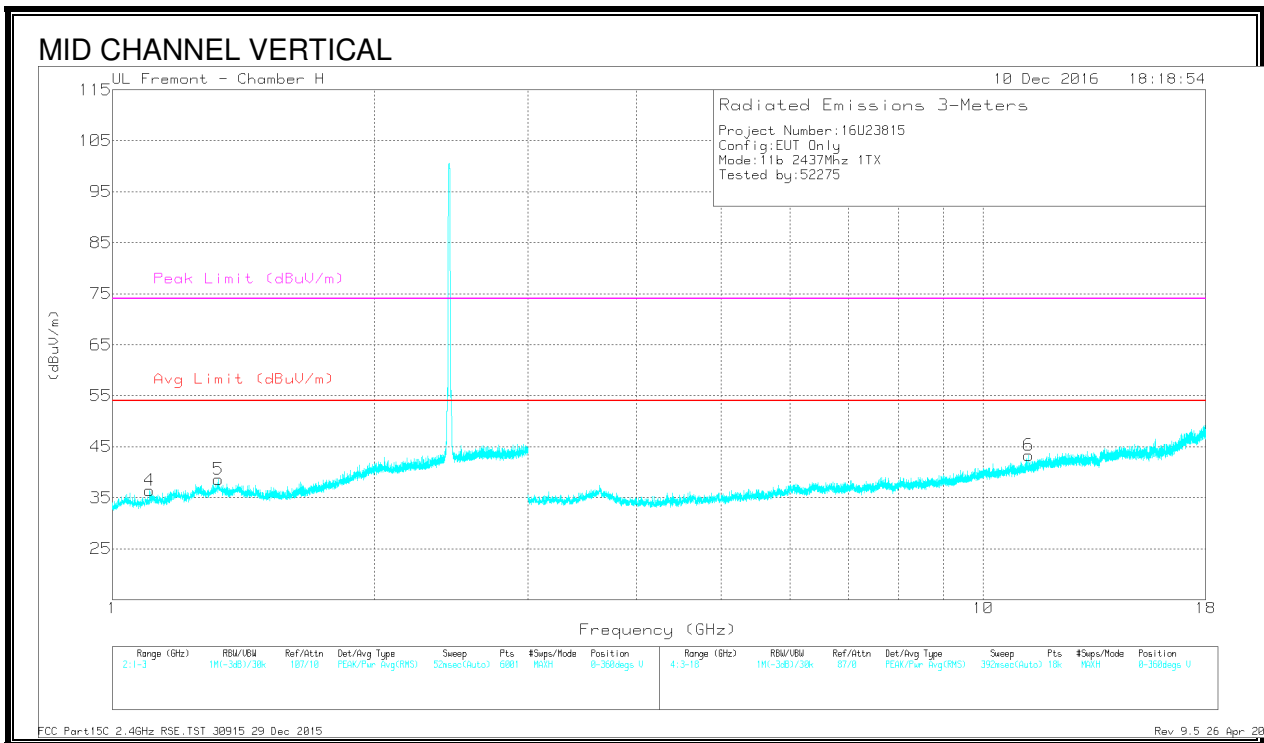
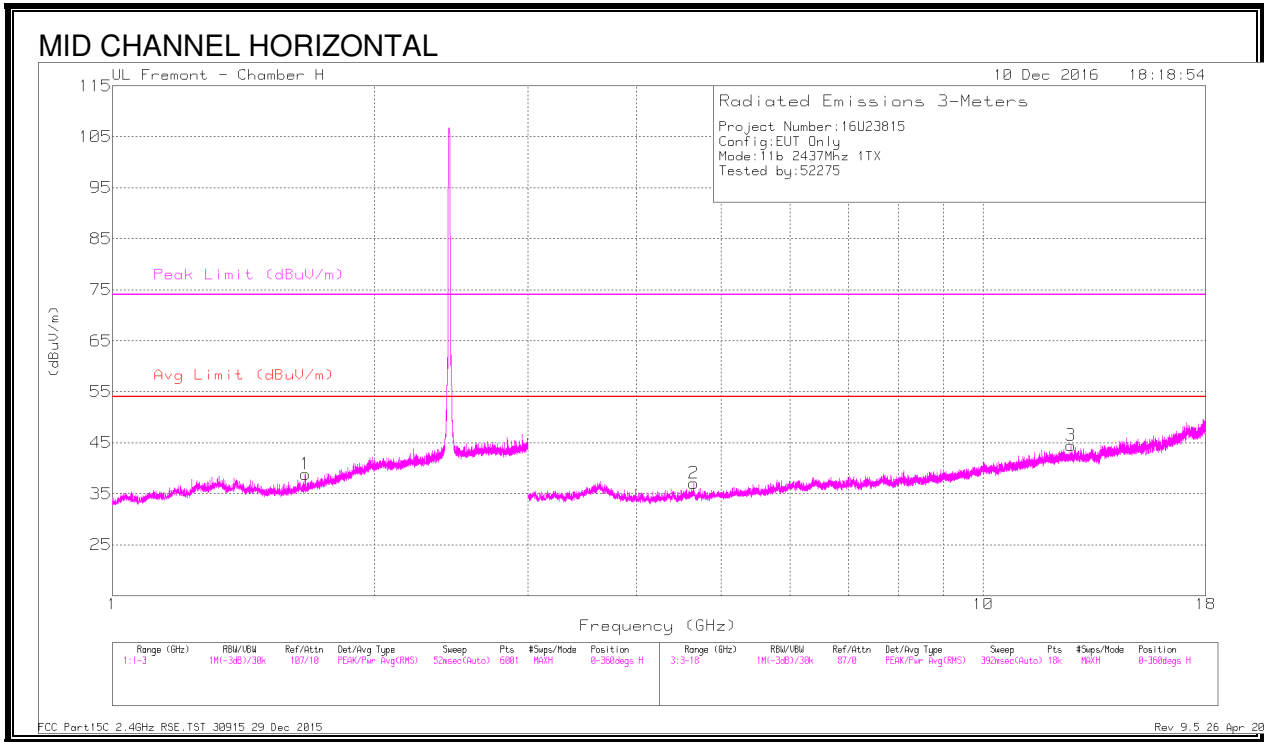
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.718	38.89	PK2	32.6	-19.3	52.19	-	-	74	-21.81	42	165	H
	* 2.717	22.46	MAv1	32.6	-19.3	35.76	54	-18.24	-	-	42	165	H
2	* 4.824	45.19	PK2	34	-35	44.19	-	-	74	-29.81	112	288	H
	* 4.824	36	MAv1	34	-35	35	54	-19	-	-	112	288	H
3	* 15.412	36.65	PK2	40.2	-24.5	52.35	-	-	74	-21.65	111	281	H
	* 15.411	24.98	MAv1	40.2	-24.5	40.68	54	-13.32	-	-	111	281	H
4	* 1.458	37.73	PK2	28.6	-21.8	44.53	-	-	74	-29.47	313	249	V
	* 1.454	23.14	MAv1	28.6	-21.7	30.04	54	-23.96	-	-	313	249	V
5	* 4.658	42.85	PK2	34	-34.3	42.55	-	-	74	-31.45	168	301	V
	* 4.658	32.14	MAv1	34	-34.3	31.84	54	-22.16	-	-	168	301	V
6	* 12.546	36.86	PK2	39.5	-26.2	50.16	-	-	74	-23.84	149	201	V
	* 12.545	25.42	MAv1	39.5	-26.2	38.72	54	-15.28	-	-	149	201	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, CH 6)

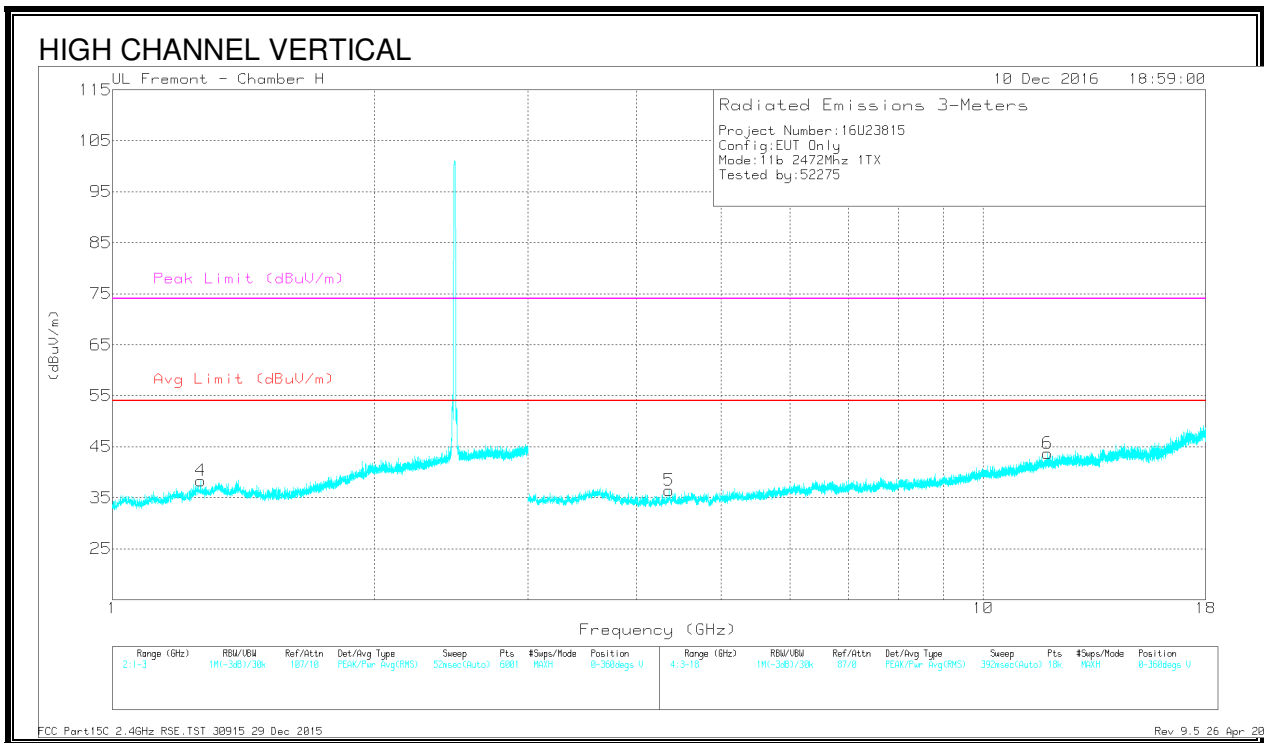
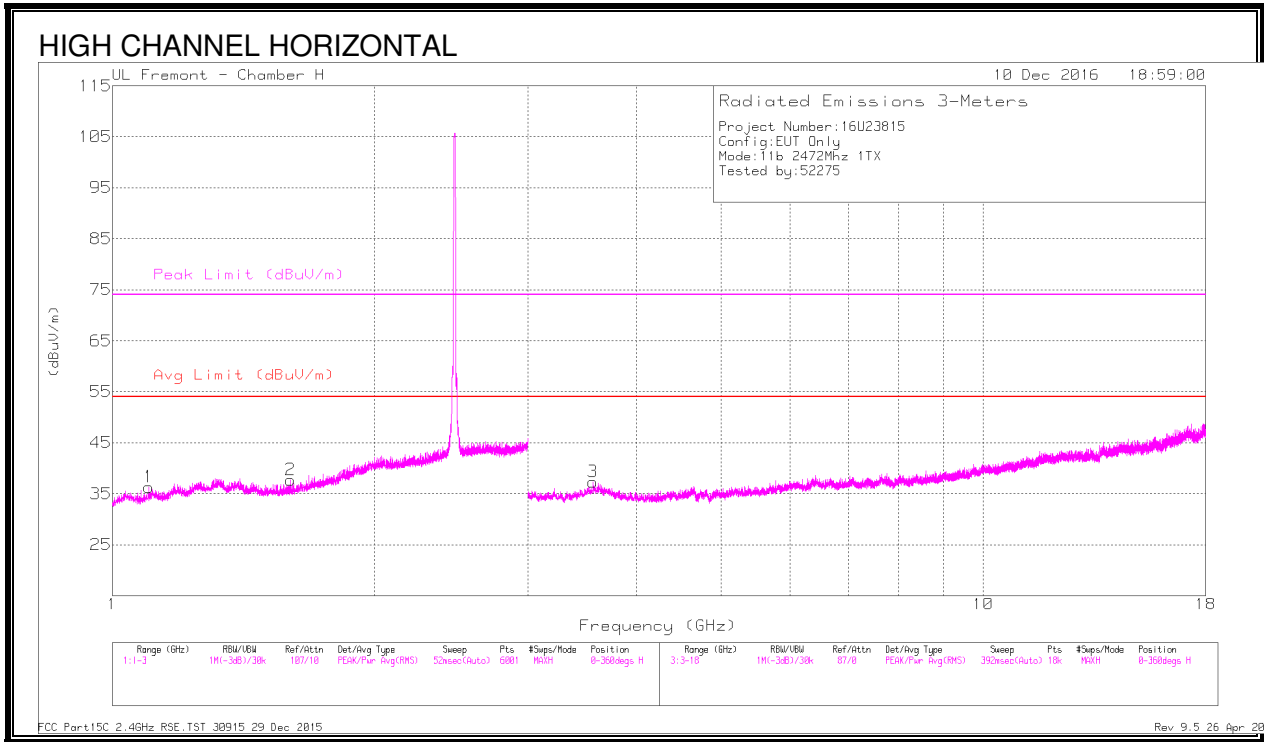


Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.667	37.46	PK2	28.4	-21.1	44.76	-	-	74	-29.24	159	212	H
	* 1.667	22.4	MAv1	28.4	-21.1	29.7	54	-24.3	-	-	159	212	H
2	* 4.651	43.41	PK2	34	-34.4	43.01	-	-	74	-30.99	353	319	H
	* 4.653	32.24	MAv1	34	-34.3	31.94	54	-22.06	-	-	353	319	H
3	* 12.6	36.65	PK2	39.5	-26.3	49.85	-	-	74	-24.15	142	291	H
	* 12.601	25.32	MAv1	39.5	-26.2	38.62	54	-15.38	-	-	142	291	H
4	* 1.105	37.9	PK2	27.9	-22.4	43.4	-	-	74	-30.6	231	391	V
	* 1.102	23.68	MAv1	27.9	-22.4	29.18	54	-24.82	-	-	231	391	V
5	* 1.325	38.15	PK2	29.7	-22	45.85	-	-	74	-28.15	247	253	V
	* 1.323	24.04	MAv1	29.7	-22.1	31.64	54	-22.36	-	-	247	253	V
6	* 11.284	37.41	PK2	38.6	-26.7	49.31	-	-	74	-24.69	221	293	V
	* 11.283	25.36	MAv1	38.6	-26.7	37.26	54	-16.74	-	-	221	293	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK2 - KDB558074 Method: Maximum Peak
 MAv1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, CH 13)



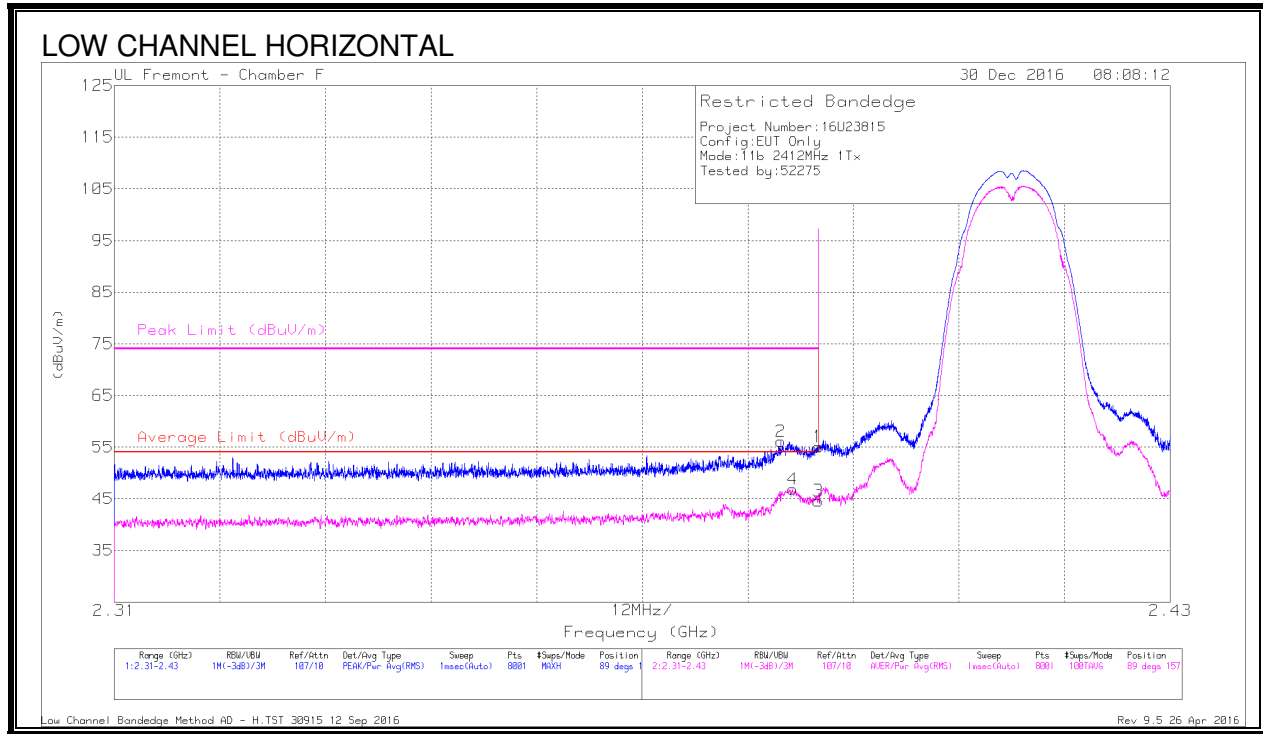
Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.101	38.16	PK2	27.9	-22.5	43.56	-	-	74	-30.44	142	277	H
	* 1.104	23.69	MAv1	27.9	-22.4	29.19	54	-24.81	-	-	142	277	H
2	* 1.603	38.05	PK2	27.9	-21.2	44.75	-	-	74	-29.25	243	173	H
	* 1.602	22.77	MAv1	27.8	-21.2	29.37	54	-24.63	-	-	243	173	H
3	* 3.567	45.25	PK2	34.7	-35.7	44.25	-	-	74	-29.75	178	355	H
	* 3.566	33.3	MAv1	34.7	-35.8	32.2	54	-21.8	-	-	178	355	H
4	* 1.265	37.96	PK2	29.4	-22.2	45.16	-	-	74	-28.84	118	225	V
	* 1.263	23.61	MAv1	29.4	-22.2	30.81	54	-23.19	-	-	118	225	V
5	* 4.357	43	PK2	33.6	-34.6	42	-	-	74	-32	47	217	V
	* 4.359	32.74	MAv1	33.6	-34.6	31.74	54	-22.26	-	-	47	217	V
6	* 11.853	36.99	PK2	39.1	-26.1	49.99	-	-	74	-24.01	104	200	V
	* 11.853	25.24	MAv1	39.1	-26.1	38.24	54	-15.76	-	-	104	200	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK2 - KDB558074 Method: Maximum Peak
 MAv1 - KDB558074 Option 1 Maximum RMS Average

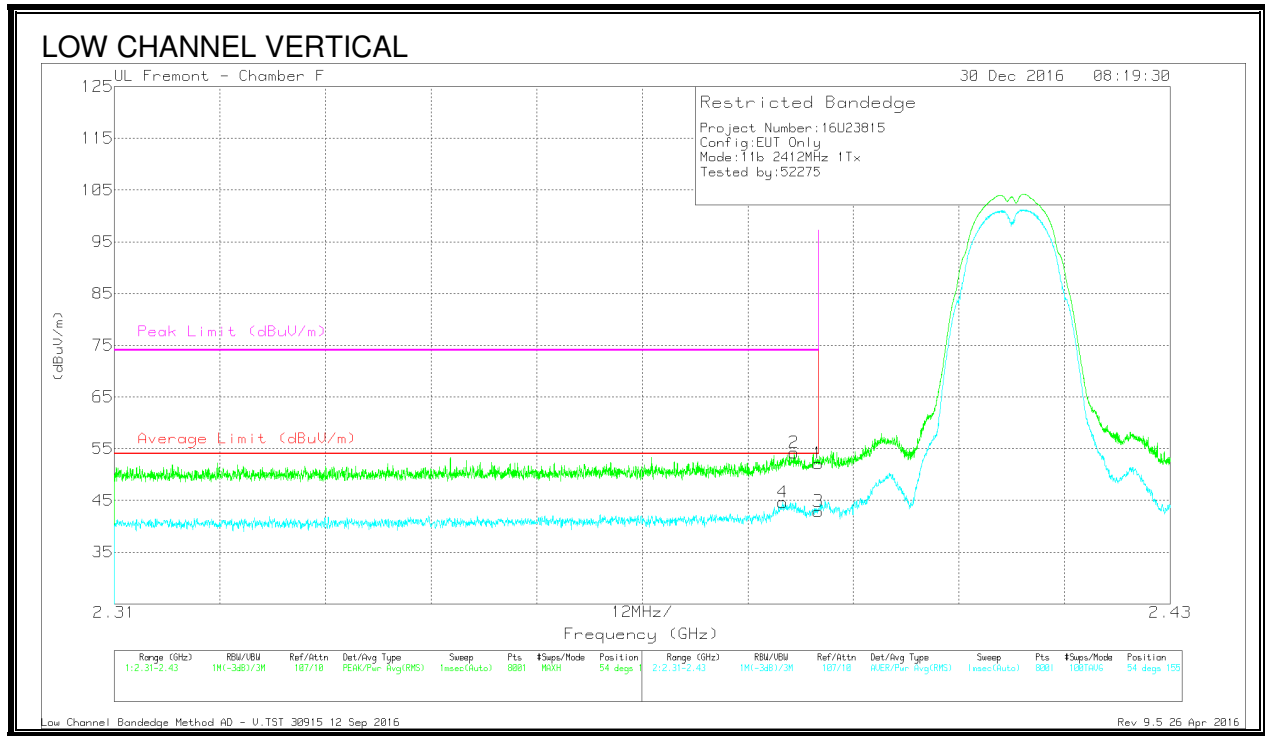
9.2.2. 11b ANTENNA B SISO MODE IN THE 2.4GHz BAND

AUTHORIZED BANDEGE (LOW CHANNEL, CH 1)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	43.84	Pk	32.1	-20.9	55.04	-	-	74	-18.96	89	157	H
2	* 2.386	44.9	Pk	32.1	-20.9	56.1	-	-	74	-17.9	89	157	H
3	* 2.39	33.36	RMS	32.1	-20.9	44.56	54	-9.44	-	-	89	157	H
4	* 2.387	35.65	RMS	32.1	-20.9	46.85	54	-7.15	-	-	89	157	H

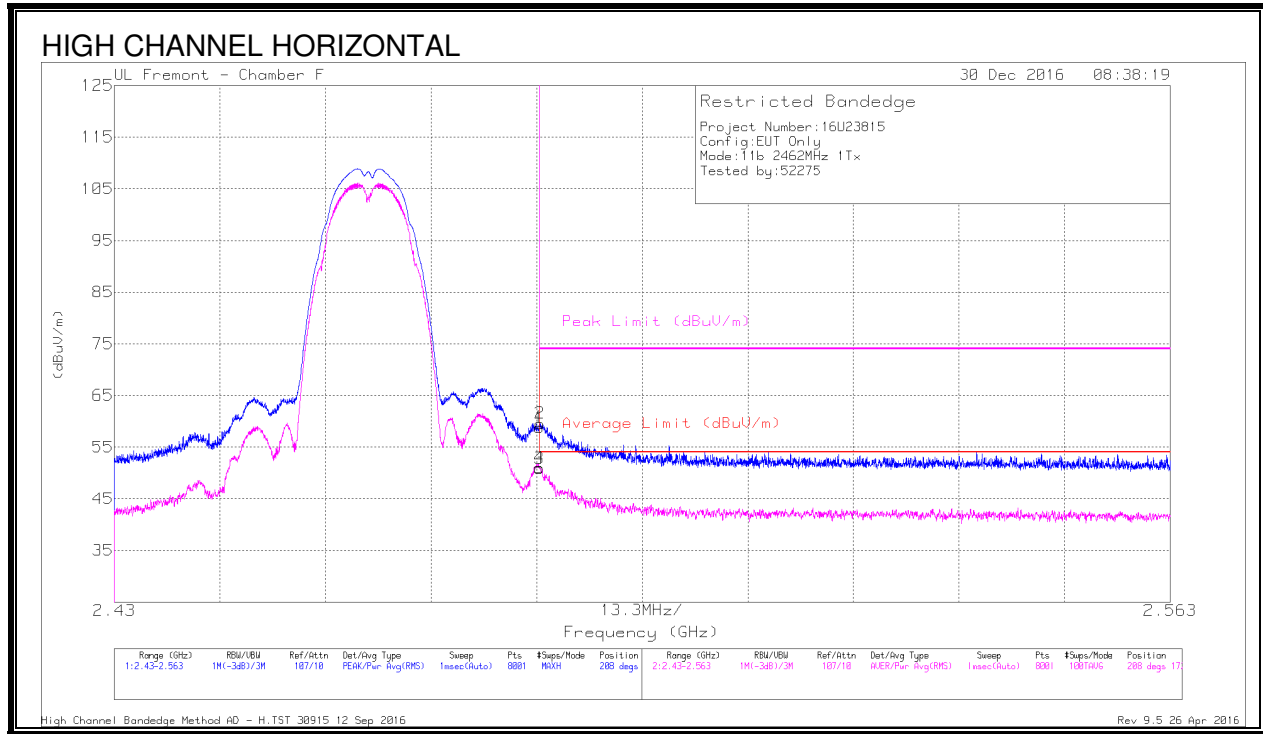
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection



Marker	Frequen- cy (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl /Fitr/Pad (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.96	Pk	32.1	-20.9	52.16	-	-	74	-21.84	54	155	V
2	* 2.387	43.04	Pk	32.1	-20.9	54.24	-	-	74	-19.76	54	155	V
3	* 2.39	31.67	RMS	32.1	-20.9	42.87	54	-11.13	-	-	54	155	V
4	* 2.386	33.44	RMS	32.1	-20.9	44.64	54	-9.36	-	-	54	155	V

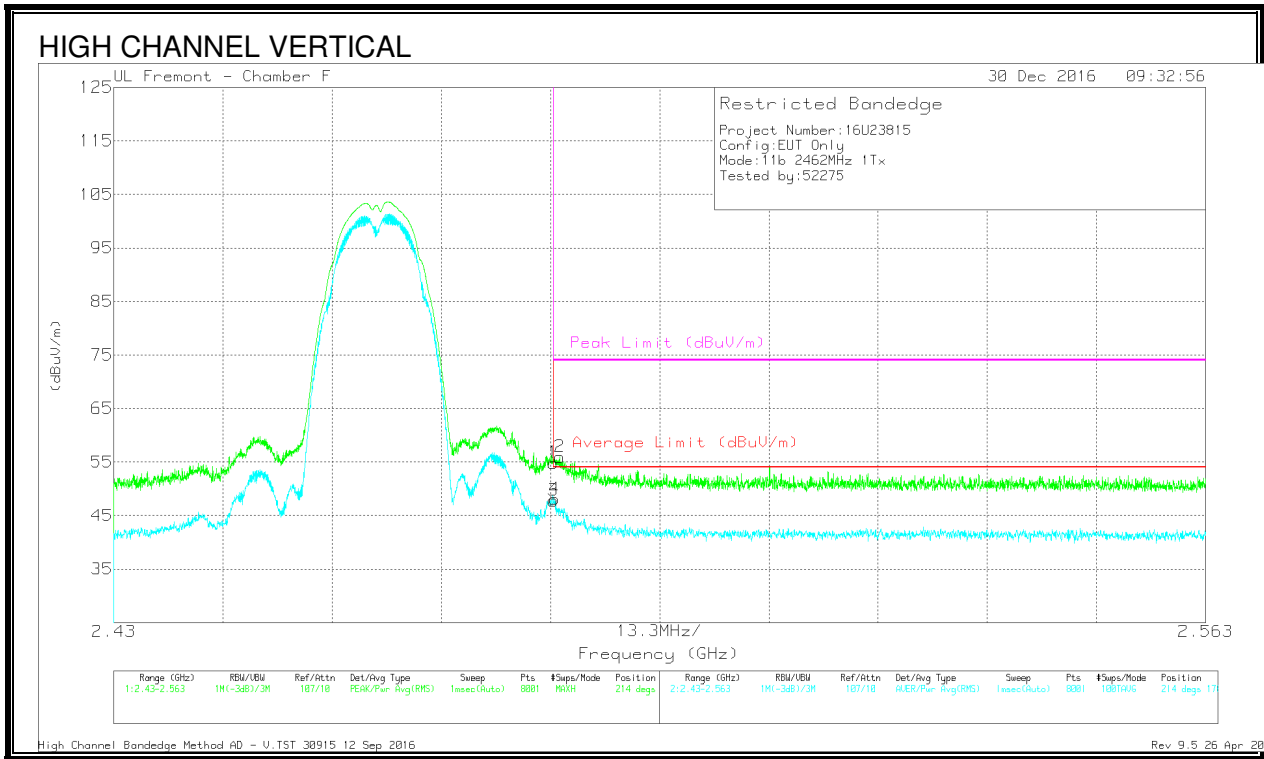
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 11)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	47.5	Pk	32.3	-21	58.8	-	-	74	-15.2	208	172	H
2	* 2.484	48.28	Pk	32.3	-21	59.58	-	-	74	-14.42	208	172	H
3	* 2.484	39.58	RMS	32.3	-21	50.88	54	-3.12	-	-	208	172	H
4	* 2.484	39.7	RMS	32.3	-21	51	54	-3	-	-	208	172	H

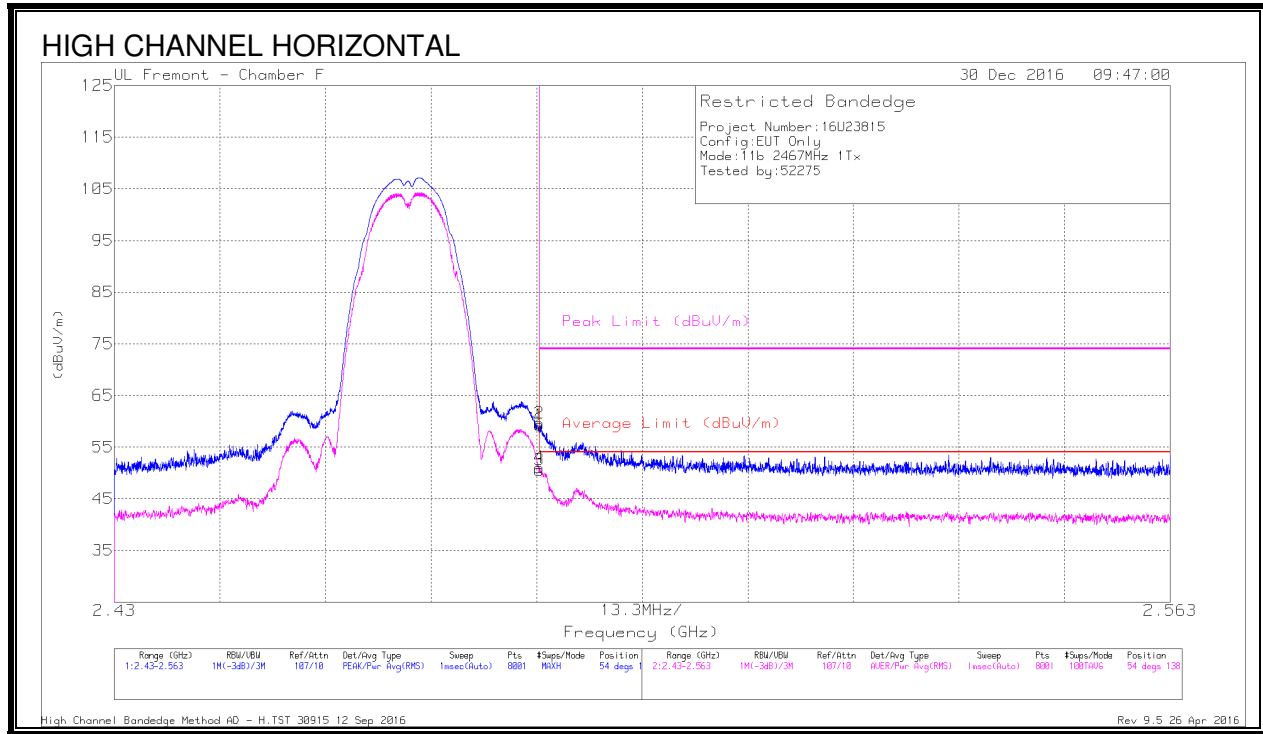
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	43.53	Pk	32.3	-21	54.83	-	-	74	-19.17	214	176	V
2	* 2.484	44.65	Pk	32.3	-21	55.95	-	-	74	-18.05	214	176	V
3	* 2.484	36.5	RMS	32.3	-21	47.8	54	-6.2	-	-	214	176	V
4	* 2.484	36.77	RMS	32.3	-21	48.07	54	-5.93	-	-	214	176	V

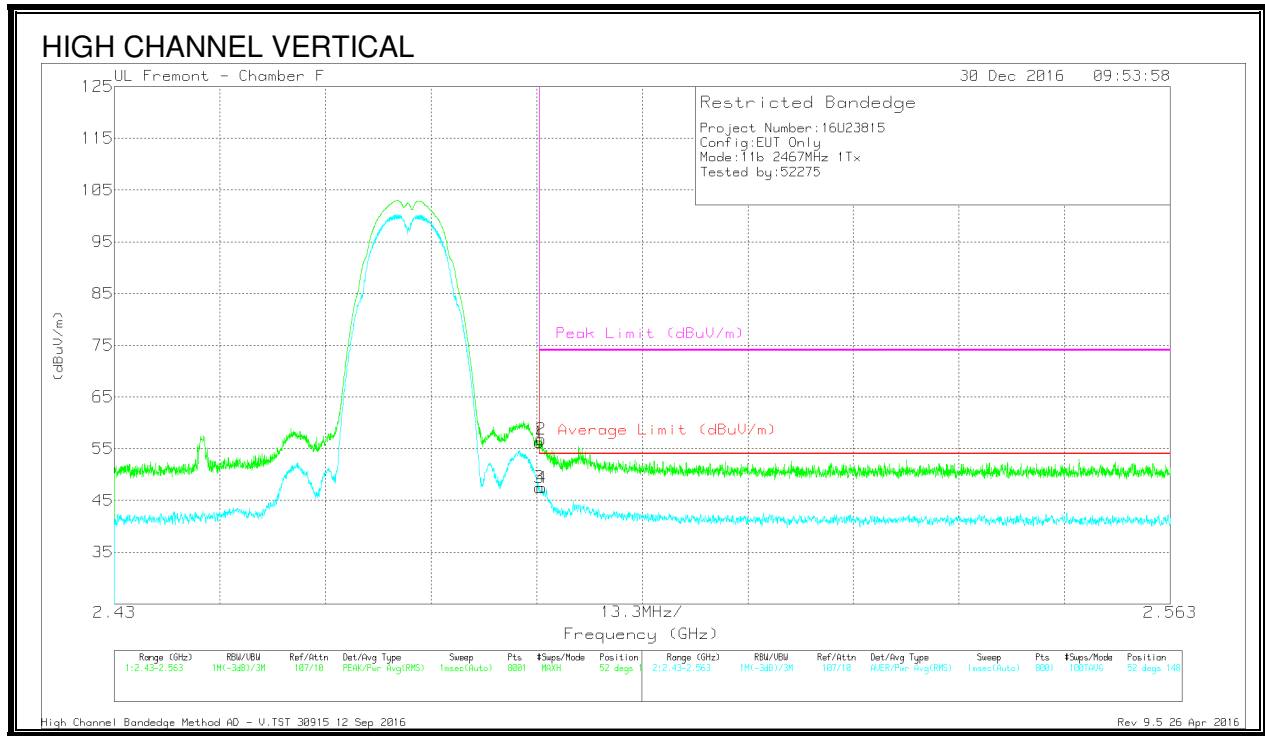
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 12)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	47.97	Pk	32.3	-21	59.27	-	-	74	-14.73	54	138	H
2	* 2.484	48.32	Pk	32.3	-21	59.62	-	-	74	-14.38	54	138	H
3	* 2.484	39.29	RMS	32.3	-21	50.59	54	-3.41	-	-	54	138	H
4	* 2.484	39.73	RMS	32.3	-21	51.03	54	-2.97	-	-	54	138	H

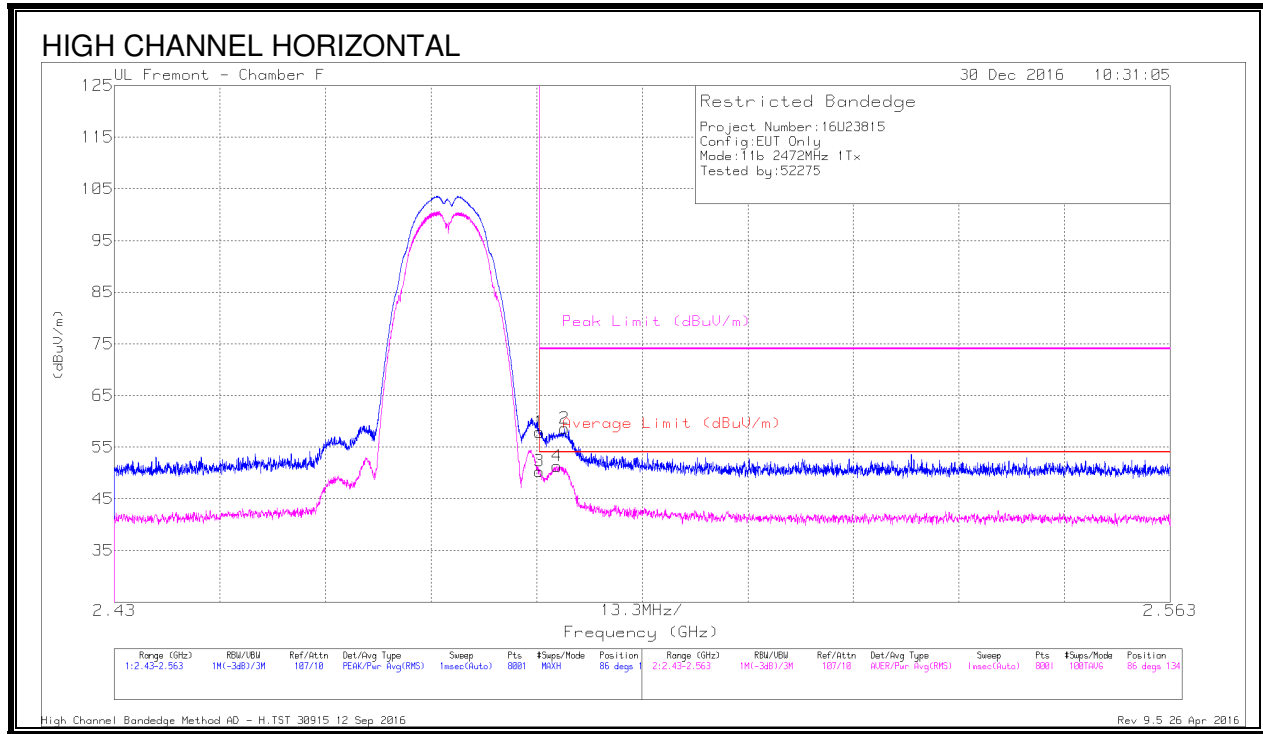
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection



Marker	Frequen- cy (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	44.92	Pk	32.3	-21	56.22	-	-	74	-17.78	52	148	V
2	* 2.484	45.51	Pk	32.3	-21	56.81	-	-	74	-17.19	52	148	V
3	* 2.484	36.2	RMS	32.3	-21	47.5	54	-6.5	-	-	52	148	V
4	* 2.484	36.15	RMS	32.3	-21	47.45	54	-6.55	-	-	52	148	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 13)

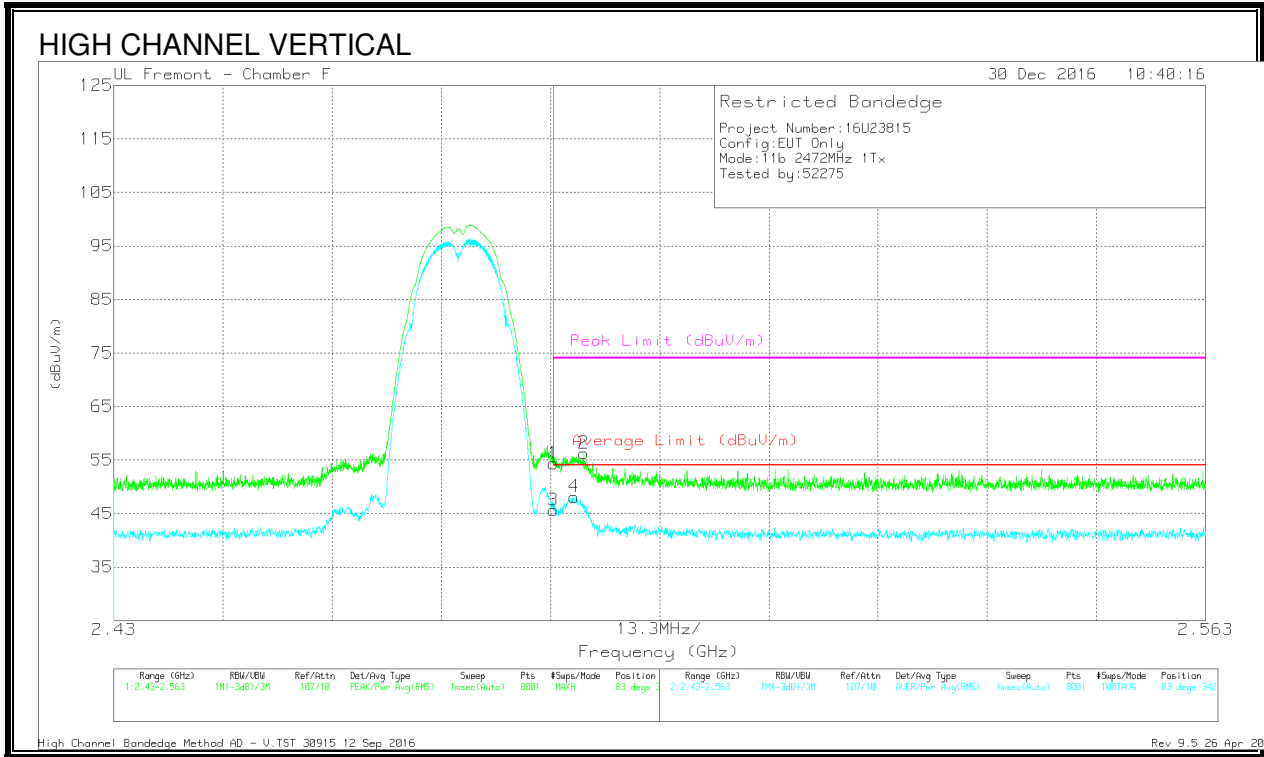


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	46.61	Pk	32.3	-21	57.91	-	-	74	-16.09	86	134	H
2	* 2.487	47.22	Pk	32.3	-20.9	58.62	-	-	74	-15.38	86	134	H
3	* 2.484	39.04	RMS	32.3	-21	50.34	54	-3.66	-	-	86	134	H
4	* 2.486	39.93	RMS	32.3	-20.9	51.33	54	-2.67	-	-	86	134	H

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

Pk - Peak detector

RMS - RMS detection



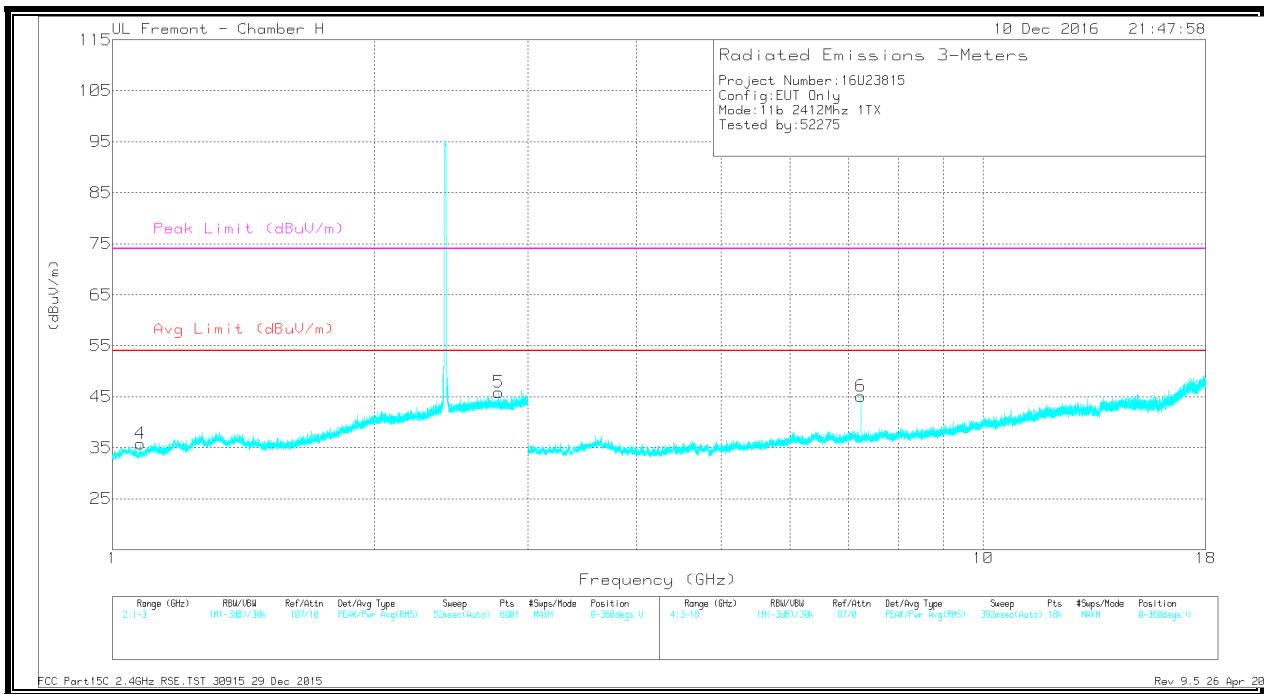
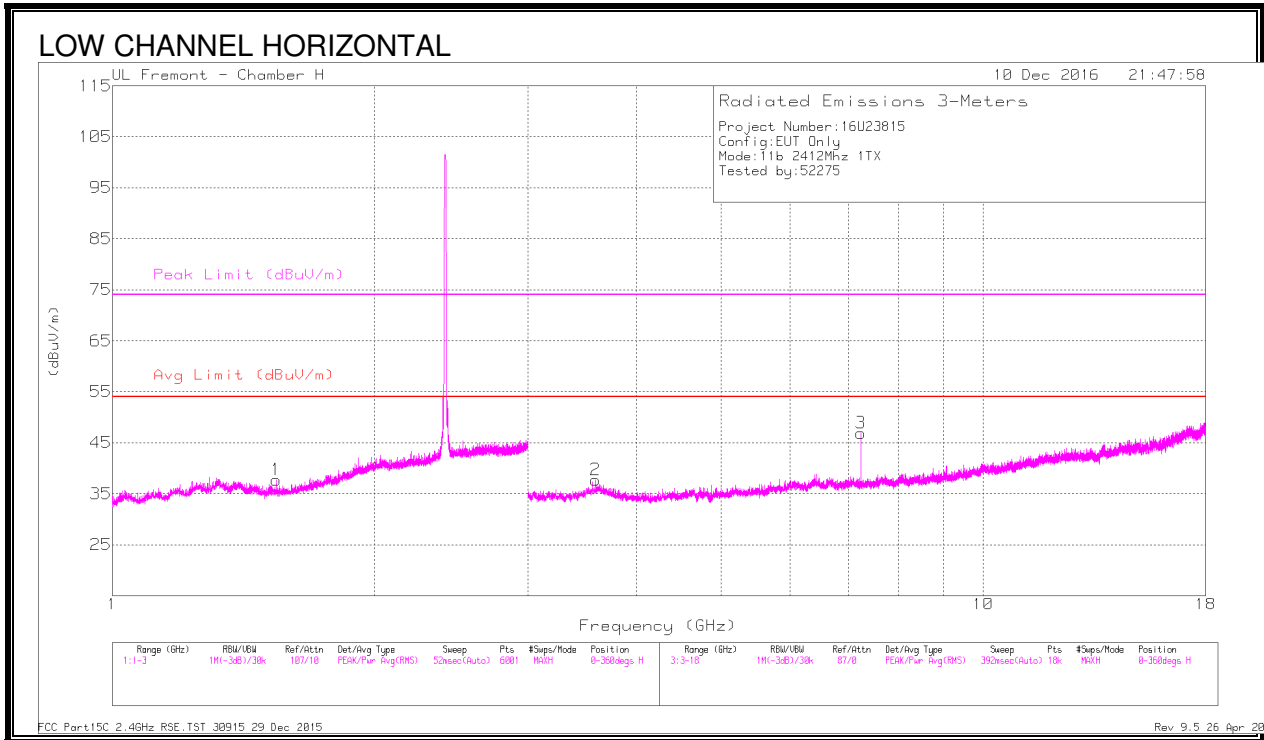
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl /Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	43.06	Pk	32.3	-21	54.36	-	-	74	-19.64	83	342	V
2	* 2.487	44.88	Pk	32.3	-20.9	56.28	-	-	74	-17.72	83	342	V
3	* 2.484	34.35	RMS	32.3	-21	45.65	54	-8.35	-	-	83	342	V
4	* 2.486	36.73	RMS	32.3	-20.9	48.13	54	-5.87	-	-	83	342	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)



Radiated Emissions

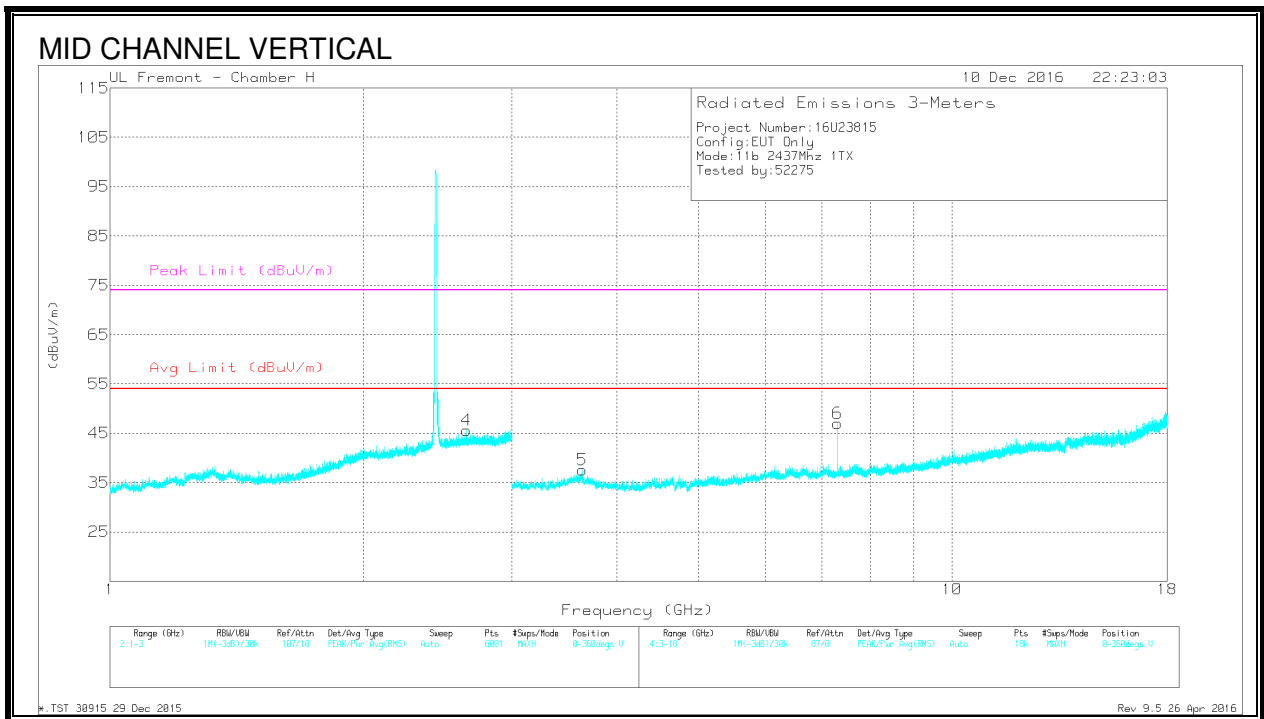
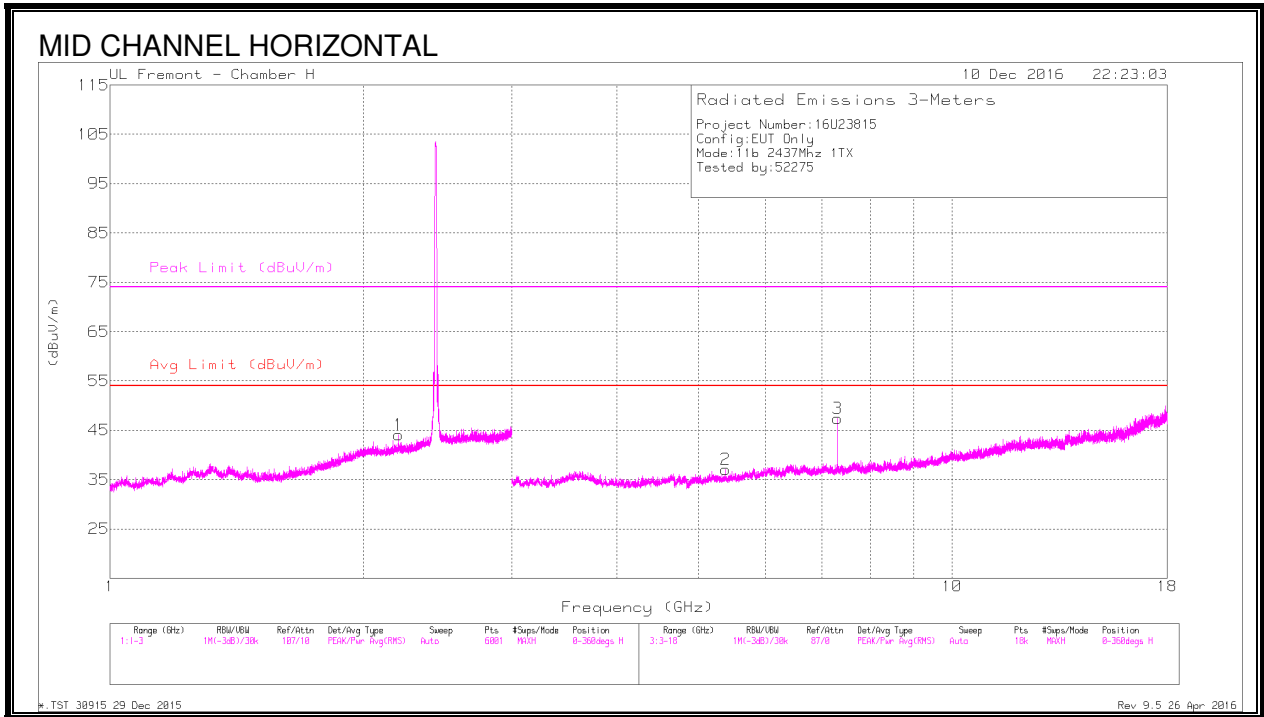
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.543	37.48	PK2	27.9	-21.3	44.08	-	-	74	-29.92	96	126	H
	* 1.541	22.62	MAv1	27.9	-21.3	29.22	54	-24.78	-	-	96	126	H
2	* 3.591	44.32	PK2	34.9	-35.4	43.82	-	-	74	-30.18	132	288	H
	* 3.591	33.19	MAv1	34.9	-35.4	32.69	54	-21.31	-	-	132	288	H
3	7.235	47.26	PK2	35.7	-31.7	51.26	-	-	-	-	96	182	H
4	* 1.077	37.2	PK2	27.8	-22.4	42.6	-	-	74	-31.4	21	300	V
	* 1.075	22.61	MAv1	27.8	-22.4	28.01	54	-25.99	-	-	21	300	V
5	* 2.778	39.01	PK2	32.6	-19.4	52.21	-	-	74	-21.79	78	328	V
	* 2.777	22.47	MAv1	32.6	-19.4	35.67	54	-18.33	-	-	78	328	V
6	7.237	46.69	PK2	35.7	-31.7	50.69	-	-	-	-	157	201	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, CH 6)



Radiated Emissions

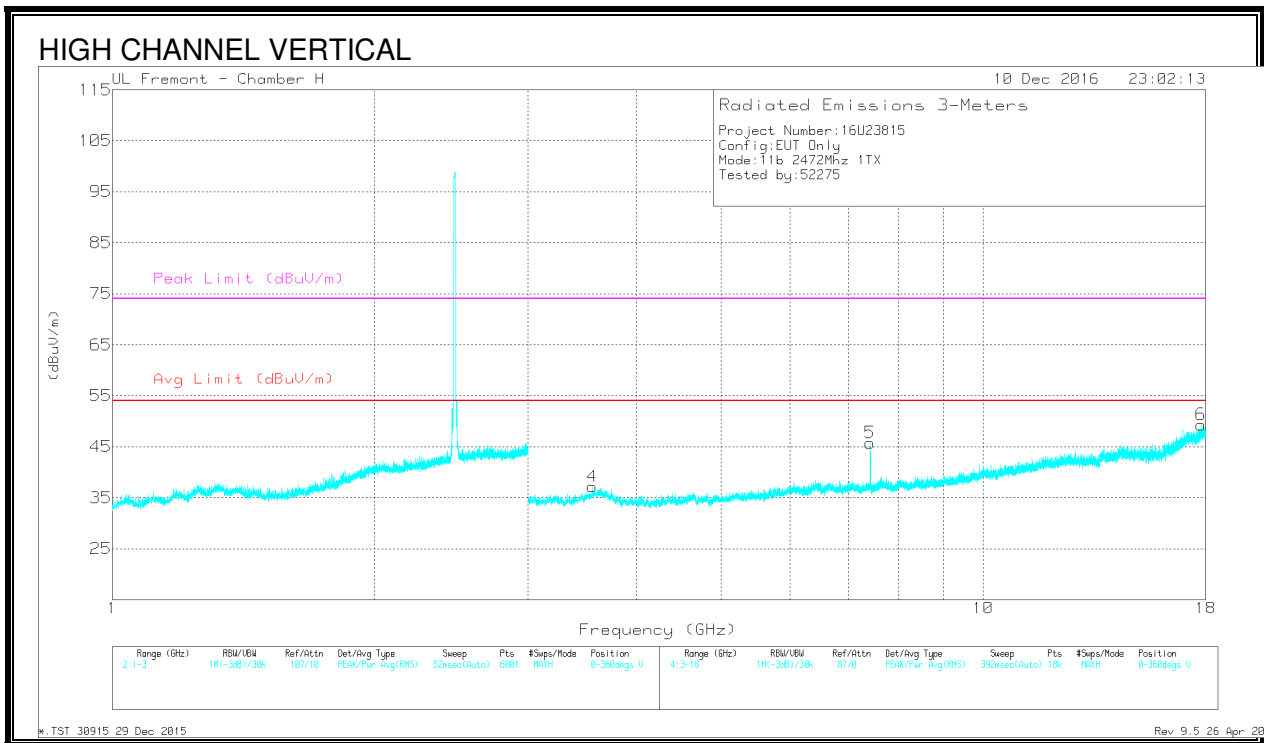
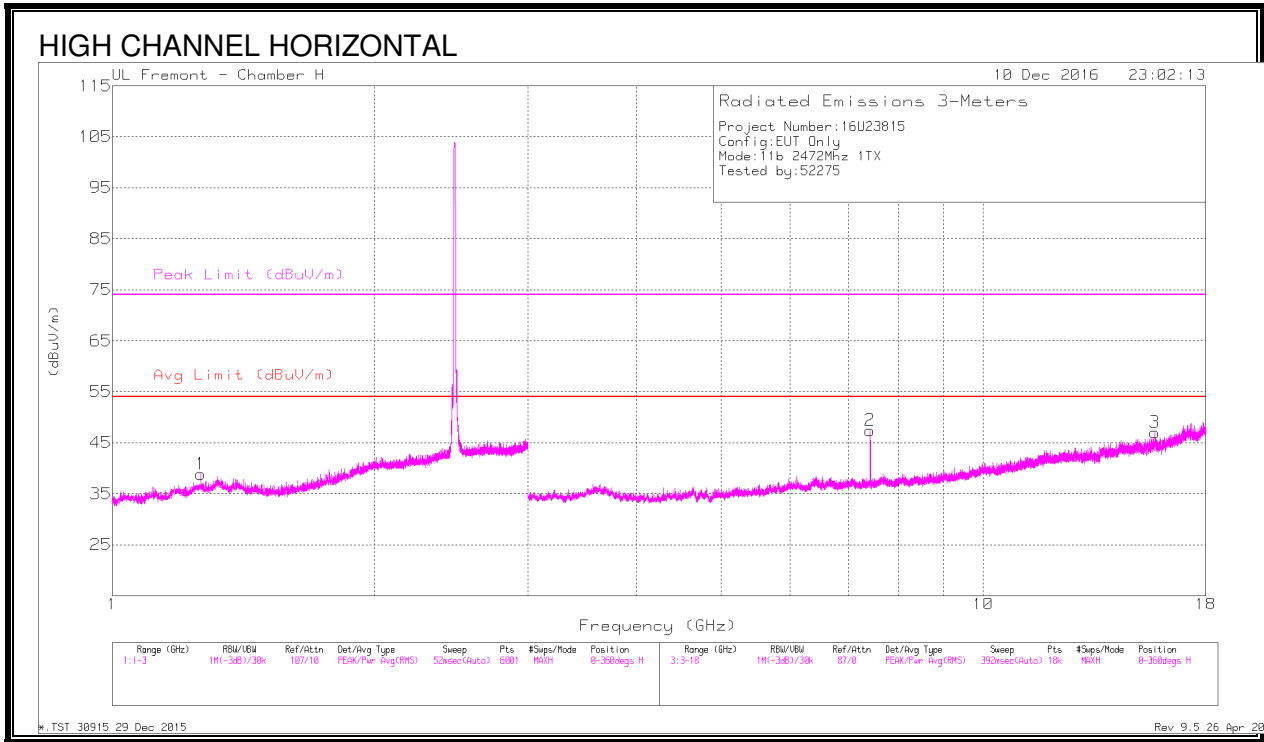
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.205	38.21	PK2	31.7	-20.1	49.81	-	-	74	-24.19	61	386	H
	* 2.202	22.96	MAv1	31.7	-20.2	34.46	54	-19.54	-	-	61	386	H
2	* 5.383	41.99	PK2	34.6	-34.1	42.49	-	-	74	-31.51	353	171	H
	* 5.384	31.36	MAv1	34.6	-34.1	31.86	54	-22.14	-	-	353	171	H
3	* 7.309	47.61	PK2	35.7	-31.4	51.91	-	-	74	-22.09	260	144	H
	* 7.31	41.38	MAv1	35.7	-31.4	45.68	54	-8.32	-	-	260	144	H
4	2.651	38.75	PK2	32.4	-19.3	51.85	-	-	-	-	304	198	V
5	* 3.637	43.33	PK2	34.9	-35.8	42.43	-	-	74	-31.57	249	124	V
	* 3.637	32.88	MAv1	34.9	-35.8	31.98	54	-22.02	-	-	249	124	V
6	* 7.312	47.84	PK2	35.7	-31.4	52.14	-	-	74	-21.86	333	217	V
	* 7.31	42.13	MAv1	35.7	-31.4	46.43	54	-7.57	-	-	333	217	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, CH 13)



Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.265	37.68	PK2	29.4	-22.2	44.88	-	-	74	-29.12	291	247	H
	* 1.263	23.55	MAv1	29.4	-22.2	30.75	54	-23.25	-	-	291	247	H
2	* 7.416	47.97	PK2	35.7	-31.2	52.47	-	-	74	-21.53	98	136	H
	* 7.415	42.37	MAv1	35.7	-31.1	46.97	54	-7.03	-	-	98	136	H
3	* 15.742	36.8	PK2	40.3	-23.9	53.2	-	-	74	-20.8	43	377	H
	* 15.74	25.07	MAv1	40.3	-23.8	41.57	54	-12.43	-	-	43	377	H
4	* 3.557	44.81	PK2	34.6	-35.7	43.71	-	-	74	-30.29	220	240	V
	* 3.558	33.12	MAv1	34.6	-35.7	32.02	54	-21.98	-	-	220	240	V
5	* 7.415	47.26	PK2	35.7	-31.1	51.86	-	-	74	-22.14	151	219	V
	* 7.415	40.92	MAv1	35.7	-31.1	45.52	54	-8.48	-	-	151	219	V
6	* 17.767	36.05	PK2	41.5	-21.3	56.25	-	-	74	-17.75	132	378	V
	* 17.767	23.8	MAv1	41.5	-21.3	44	54	-10	-	-	132	378	V

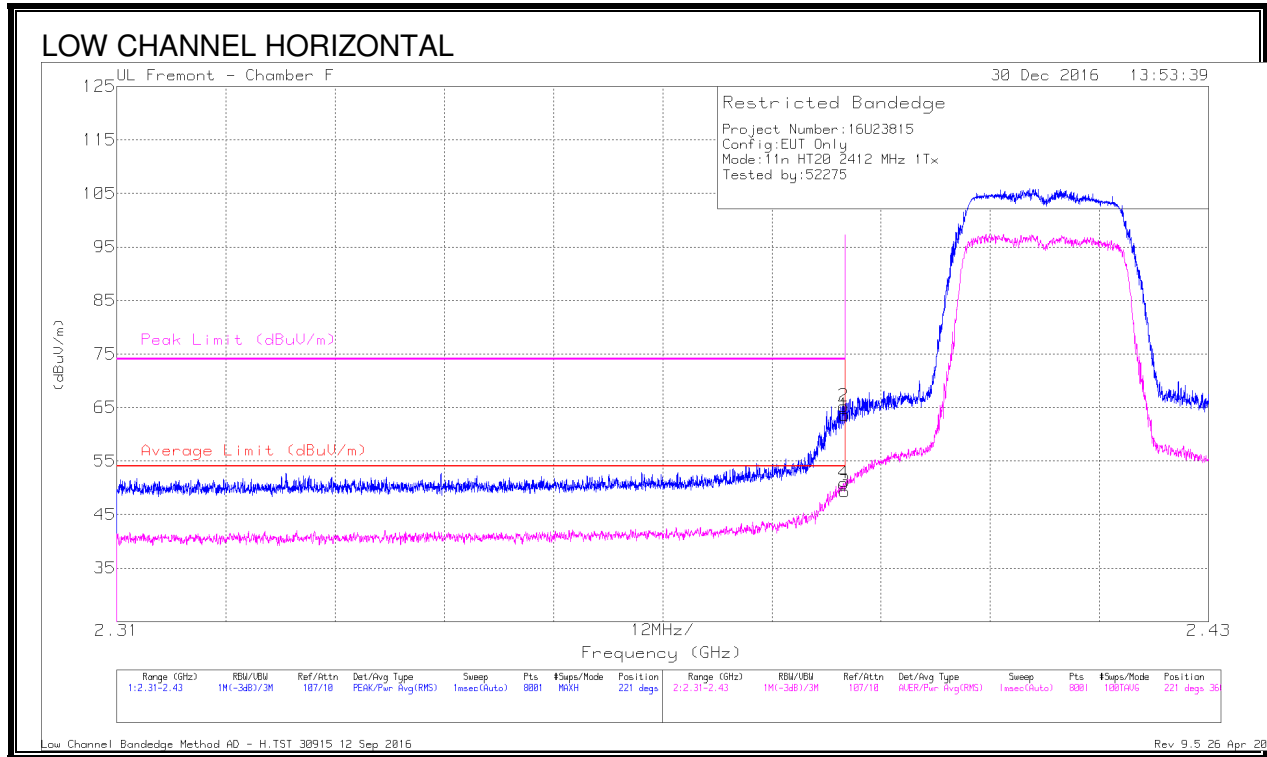
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

9.2.3. 11n HT20 ANTENNA A SISO MODE IN THE 2.4GHZ BAND

AUTHORIZED BANDEGE (LOW CHANNEL, CH 1)

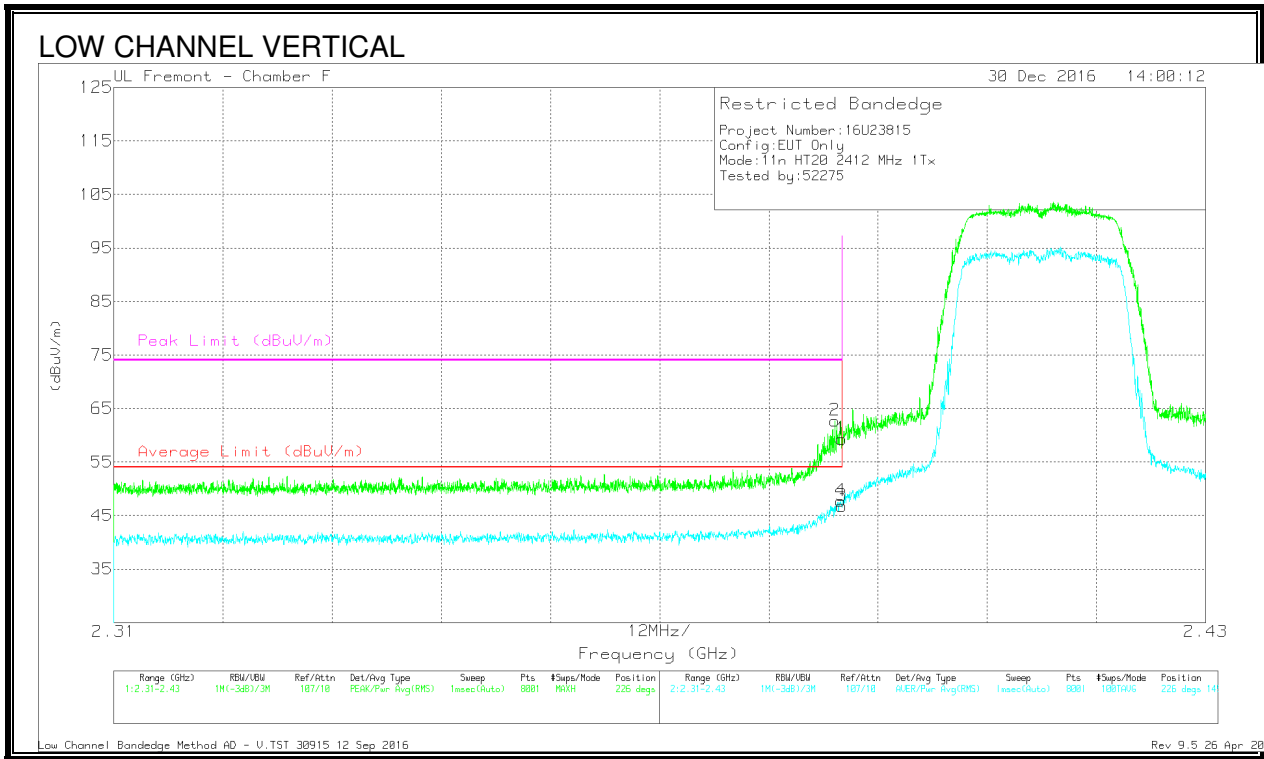


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	52.43	Pk	32.1	-20.9	63.63	-	-	74	-10.37	221	360	H
2	* 2.39	54.07	Pk	32.1	-20.9	65.27	-	-	74	-8.73	221	360	H
3	* 2.39	38.08	RMS	32.1	-20.9	49.28	54	-4.72	-	-	221	360	H
4	* 2.39	39.63	RMS	32.1	-20.9	50.83	54	-3.17	-	-	221	360	H

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

Pk - Peak detector

RMS - RMS detection



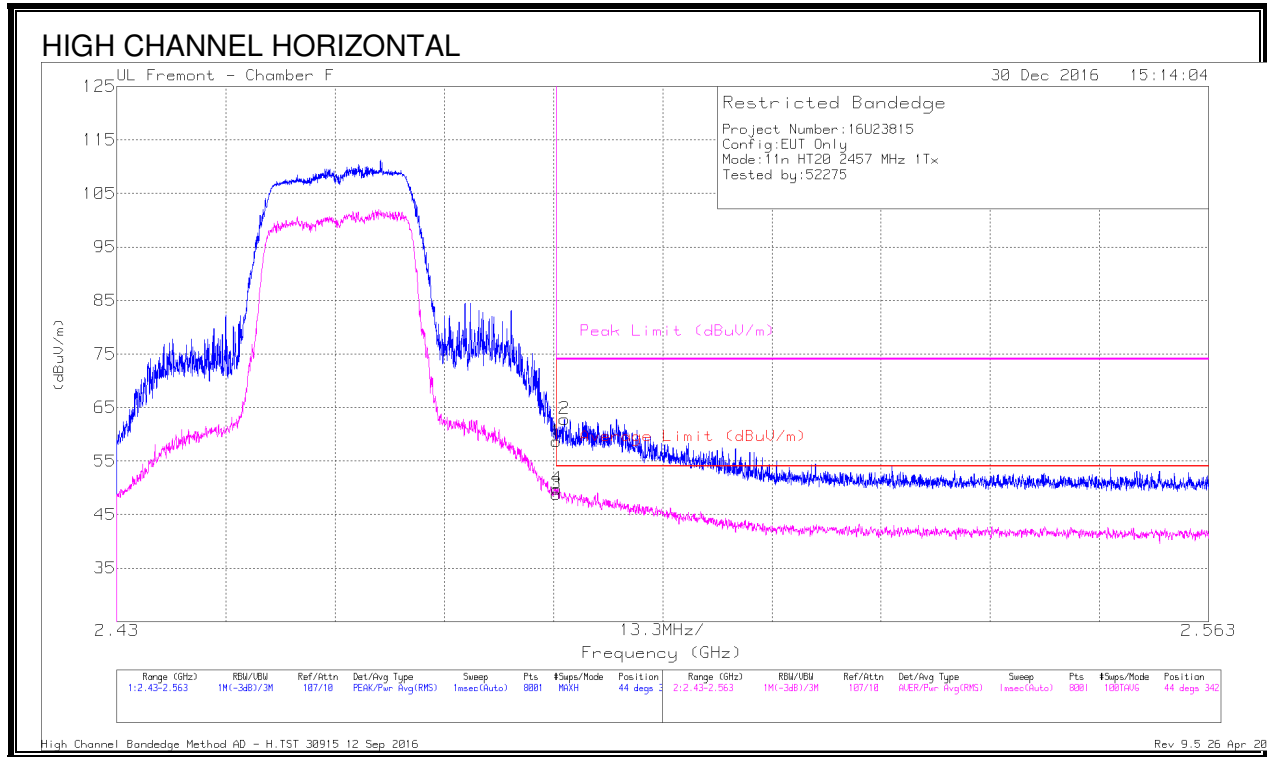
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	48.12	Pk	32.1	-20.9	59.32	-	-	74	-14.68	226	145	V
2	* 2.389	51.54	Pk	32.1	-20.9	62.74	-	-	74	-11.26	226	145	V
3	* 2.39	35.63	RMS	32.1	-20.9	46.83	54	-7.17	-	-	226	145	V
4	* 2.39	36.55	RMS	32.1	-20.9	47.75	54	-6.25	-	-	226	145	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 10)

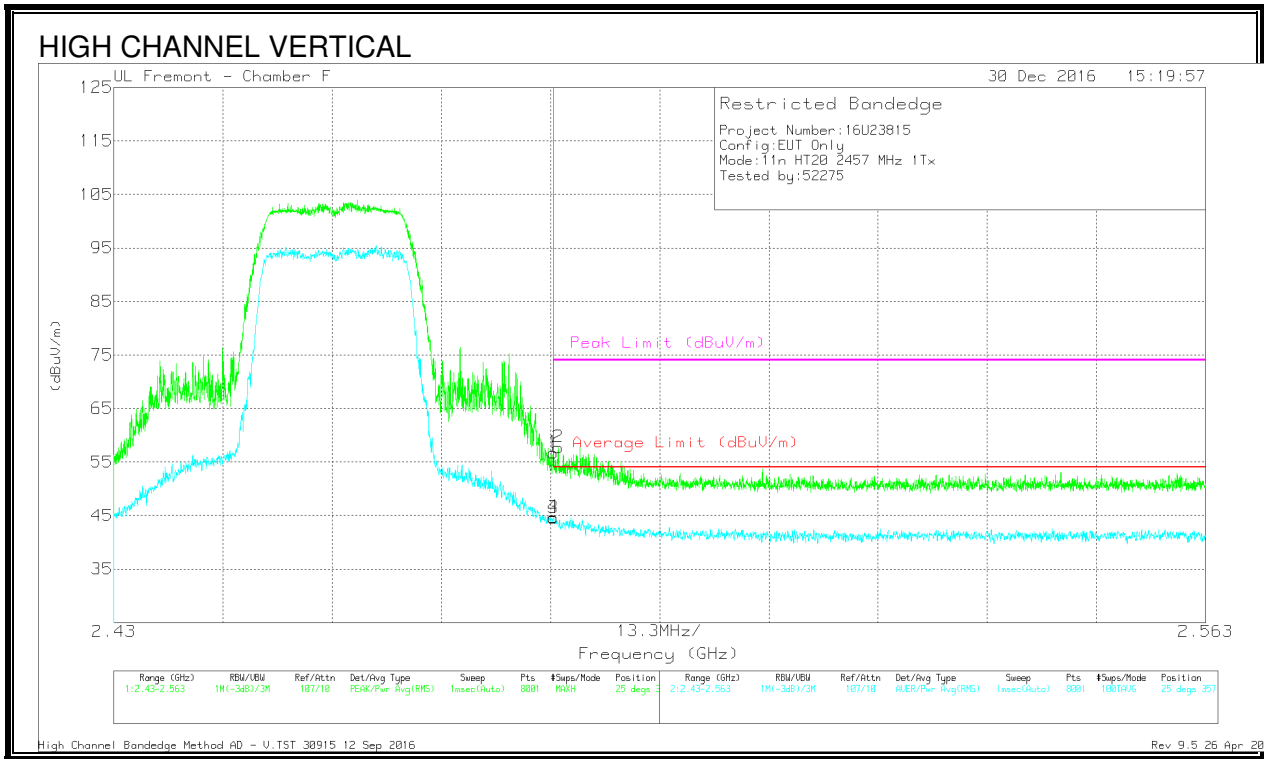


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl /Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	47.37	Pk	32.3	-21	58.67	-	-	74	-15.33	44	342	H
2	* 2.485	51.46	Pk	32.3	-20.9	62.86	-	-	74	-11.14	44	342	H
3	* 2.484	37.58	RMS	32.3	-21	48.88	54	-5.12	-	-	44	342	H
4	* 2.484	38.54	RMS	32.3	-21	49.84	54	-4.16	-	-	44	342	H

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

Pk - Peak detector

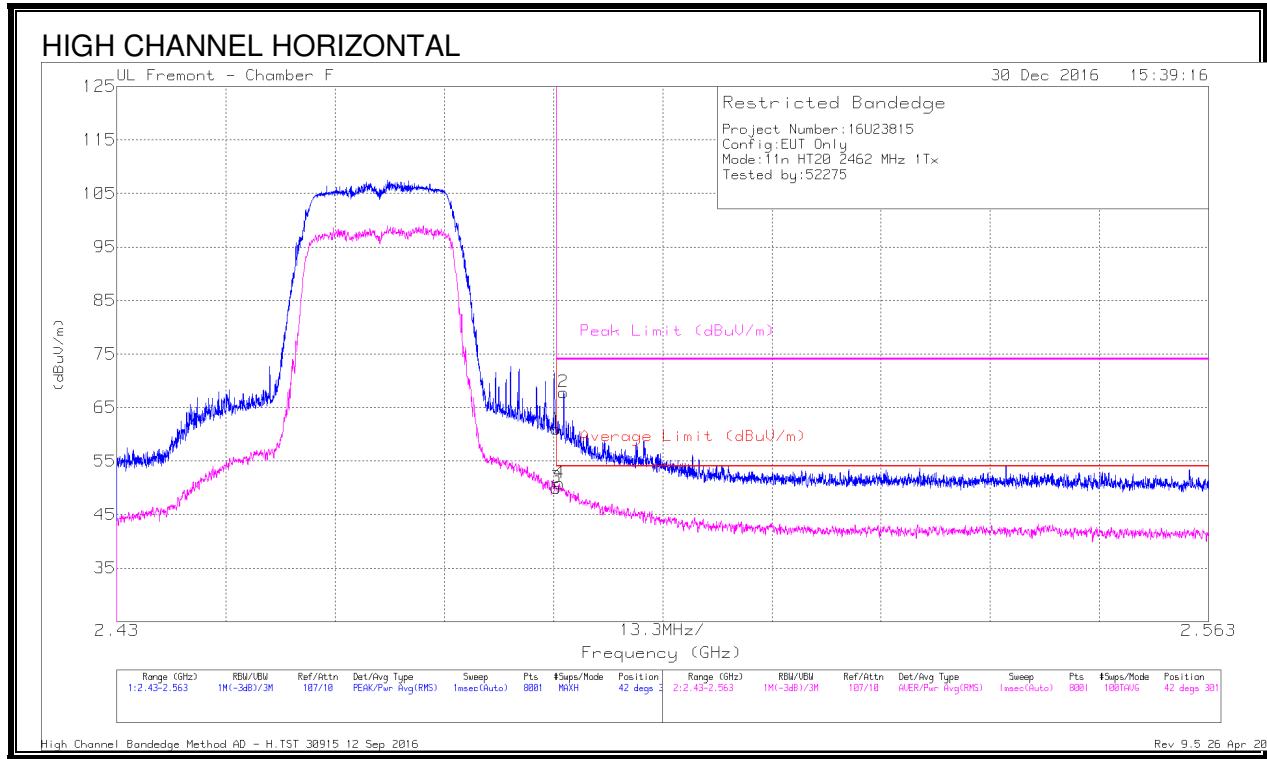
RMS - RMS detection



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	45.45	Pk	32.3	-21	56.75	-	-	74	-17.25	25	357	V
2	* 2.484	46.46	Pk	32.3	-21	57.76	-	-	74	-16.24	25	357	V
3	* 2.484	33.27	RMS	32.3	-21	44.57	54	-9.43	-	-	25	357	V
4	* 2.484	33.41	RMS	32.3	-21	44.71	54	-9.29	-	-	25	357	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 11)

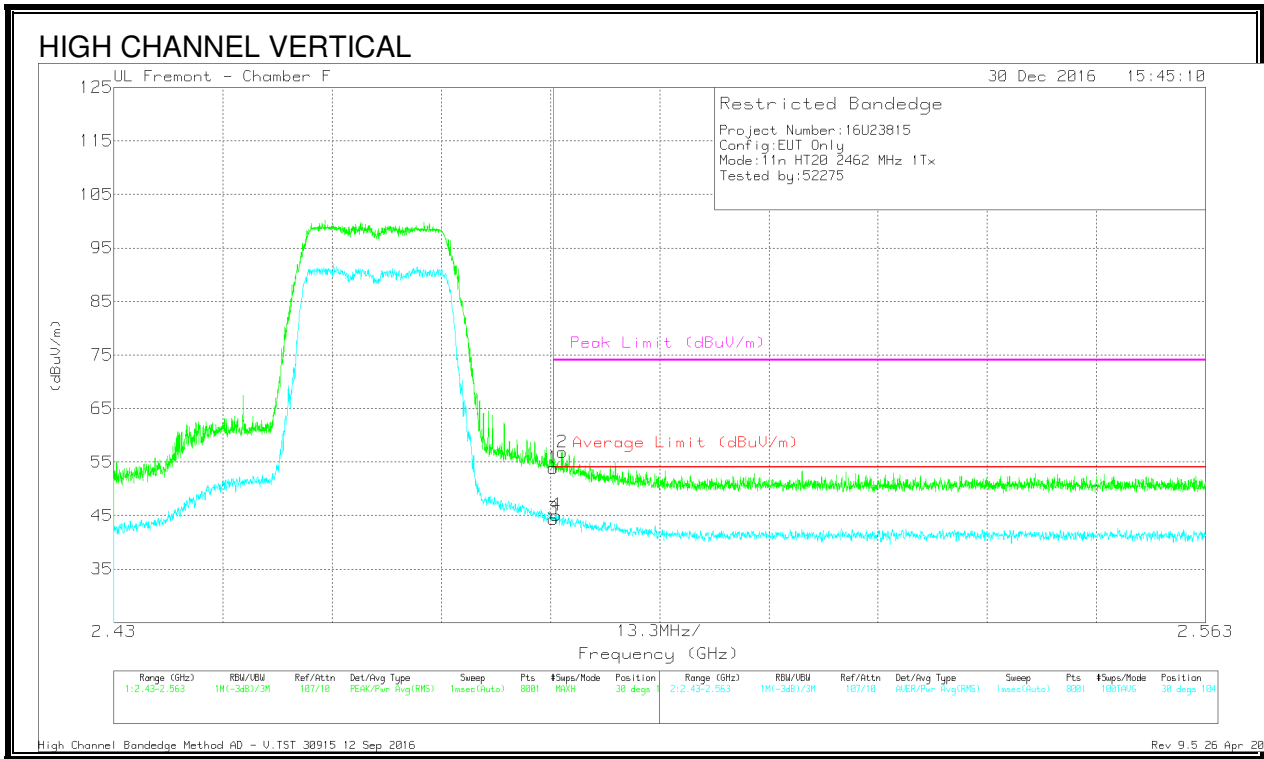


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl /Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	49.68	Pk	32.3	-21	60.98	-	-	74	-13.02	42	301	H
2	* 2.484	56.55	Pk	32.3	-21	67.85	-	-	74	-6.15	42	301	H
3	* 2.484	38.7	RMS	32.3	-21	50	54	-4	-	-	42	301	H
4	* 2.484	39.53	RMS	32.3	-21	50.83	54	-3.17	-	-	42	301	H

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

Pk - Peak detector

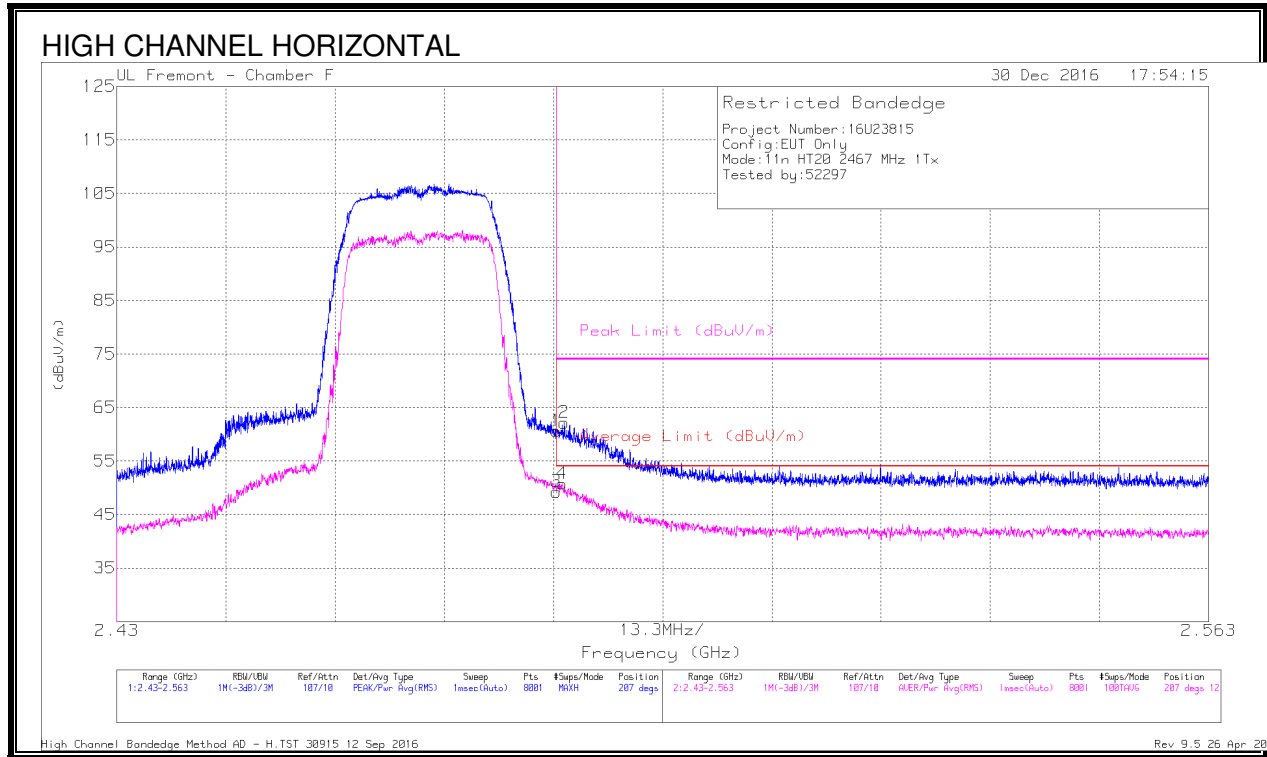
RMS - RMS detection



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.59	Pk	32.3	-21	53.89	-	-	74	-20.11	30	104	V
2	* 2.485	45.44	Pk	32.3	-20.9	56.84	-	-	74	-17.16	30	104	V
3	* 2.484	33.05	RMS	32.3	-21	44.35	54	-9.65	-	-	30	104	V
4	* 2.484	33.78	RMS	32.3	-21	45.08	54	-8.92	-	-	30	104	V

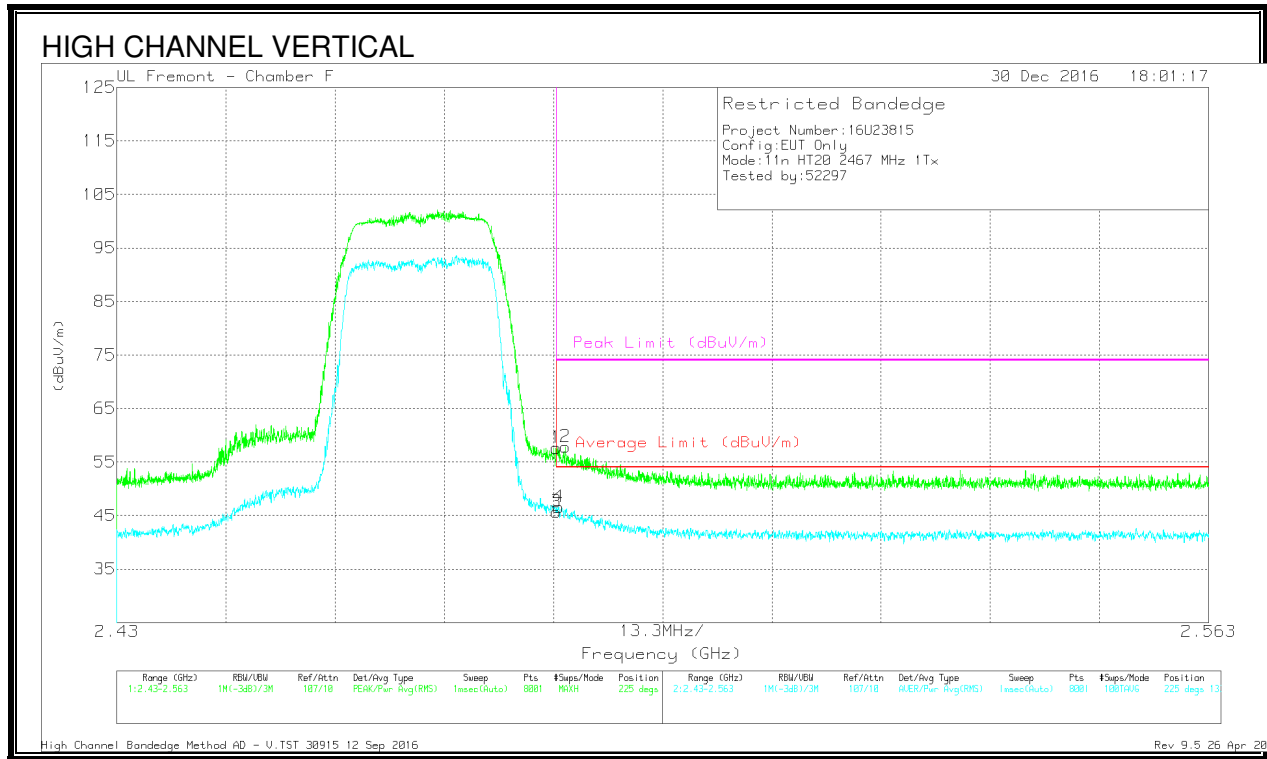
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 12)



Marker	Frequen- cy (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl /Fitr/Pad (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	49.3	Pk	32.3	-21	60.6	-	-	74	-13.4	207	121	H
2	* 2.484	50.76	Pk	32.3	-20.9	62.16	-	-	74	-11.84	207	121	H
3	* 2.484	37.97	RMS	32.3	-21	49.27	54	-4.73	-	-	207	121	H
4	* 2.484	39.45	RMS	32.3	-21	50.75	54	-3.25	-	-	207	121	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection



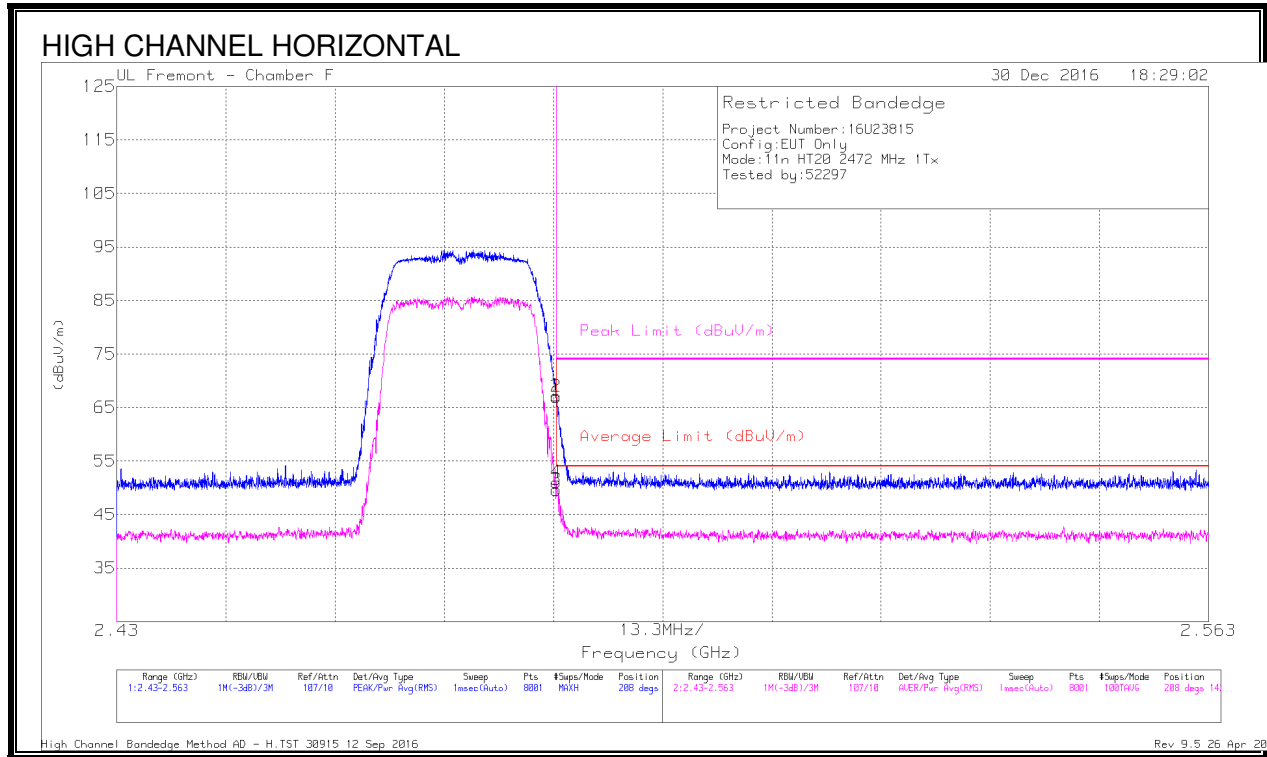
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl /Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	46.36	Pk	32.3	-21	57.66	-	-	74	-16.34	225	133	V
2	* 2.485	46.43	Pk	32.3	-20.9	57.83	-	-	74	-16.17	225	133	V
3	* 2.484	34.37	RMS	32.3	-21	45.67	54	-8.33	-	-	225	133	V
4	* 2.484	35.28	RMS	32.3	-21	46.58	54	-7.42	-	-	225	133	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 13)

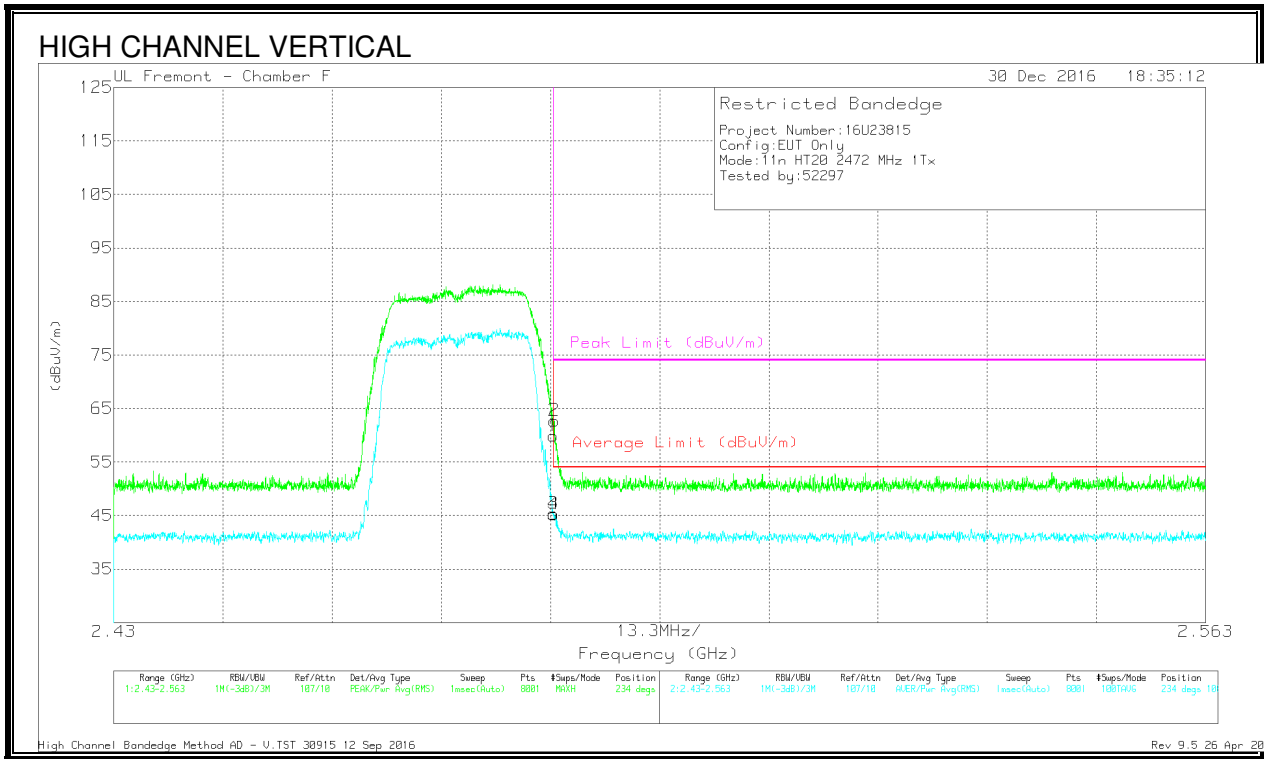


Marker	Frequen- cy (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl /Fitr/Pad (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	55.95	Pk	32.3	-21	67.25	-	-	74	-6.75	208	142	H
2	* 2.484	55.71	Pk	32.3	-21	67.01	-	-	74	-6.99	208	142	H
3	* 2.484	38.32	RMS	32.3	-21	49.62	54	-4.38	-	-	208	142	H
4	* 2.484	39.73	RMS	32.3	-21	51.03	54	-2.97	-	-	208	142	H

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

Pk - Peak detector

RMS - RMS detection



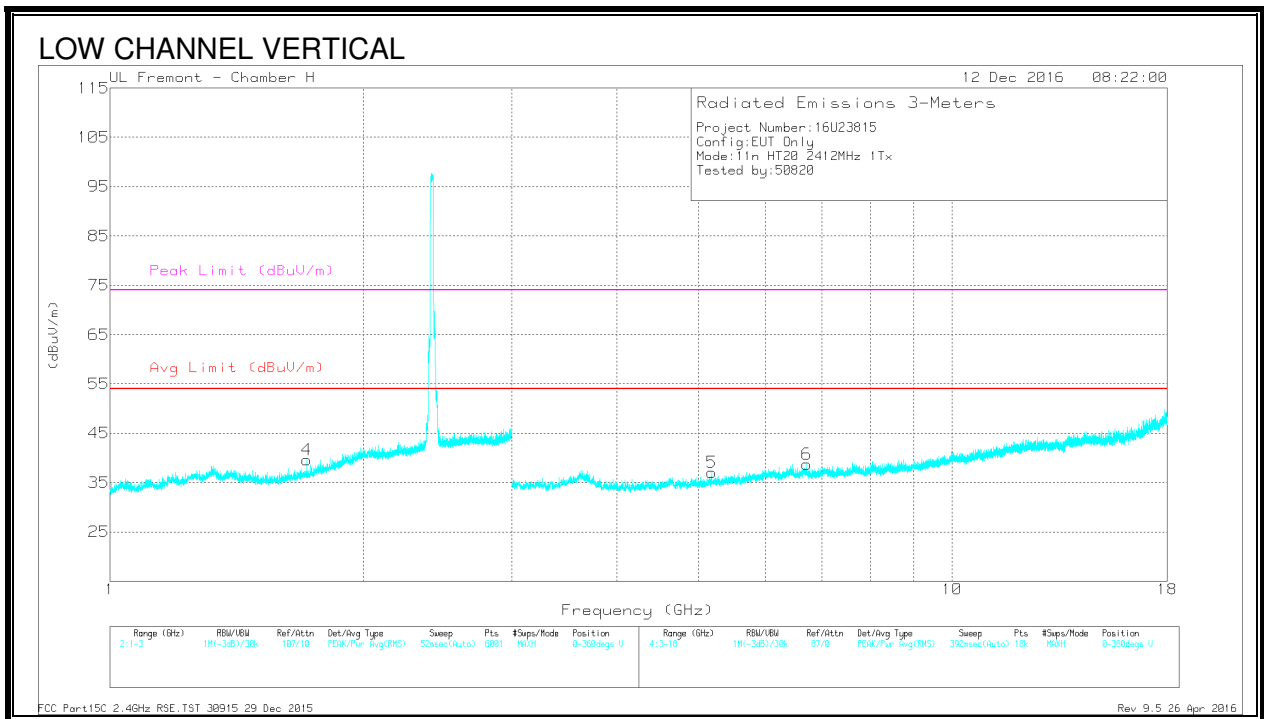
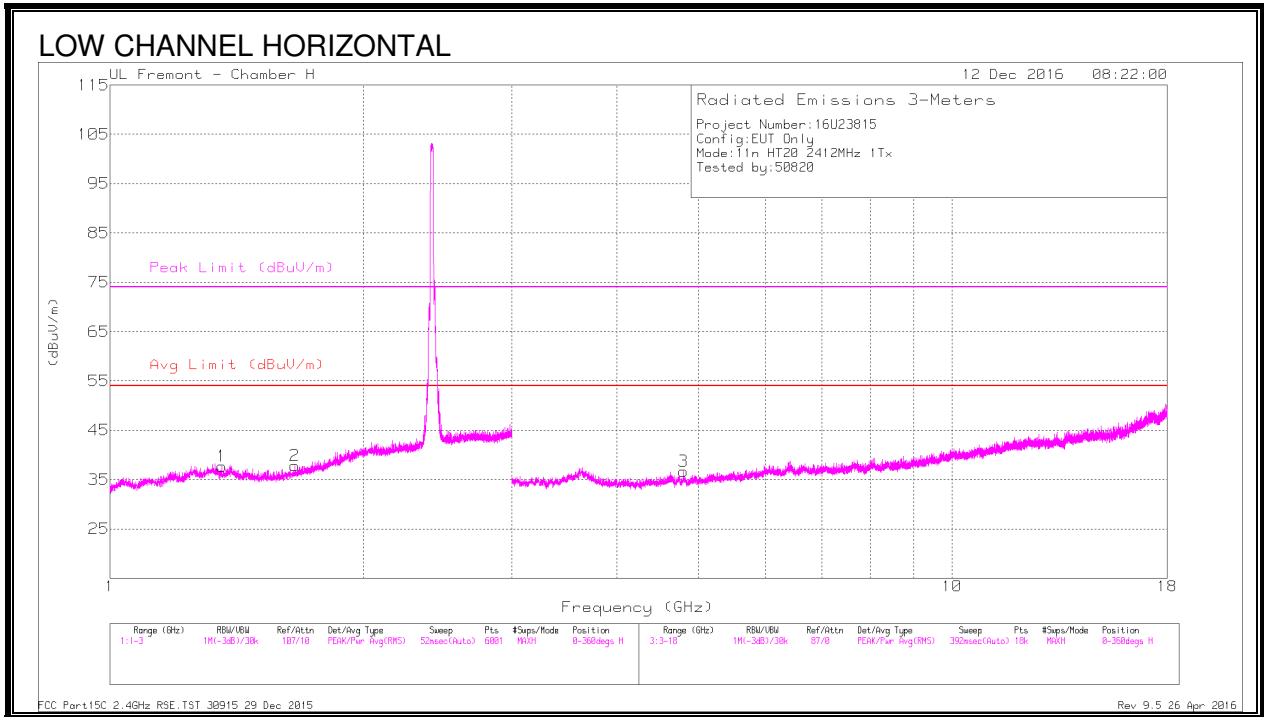
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	48.59	Pk	32.3	-21	59.89	-	-	74	-14.11	234	106	V
2	* 2.484	51.41	Pk	32.3	-21	62.71	-	-	74	-11.29	234	106	V
3	* 2.484	34.06	RMS	32.3	-21	45.36	54	-8.64	-	-	234	106	V
4	* 2.484	33.94	RMS	32.3	-21	45.24	54	-8.76	-	-	234	106	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)

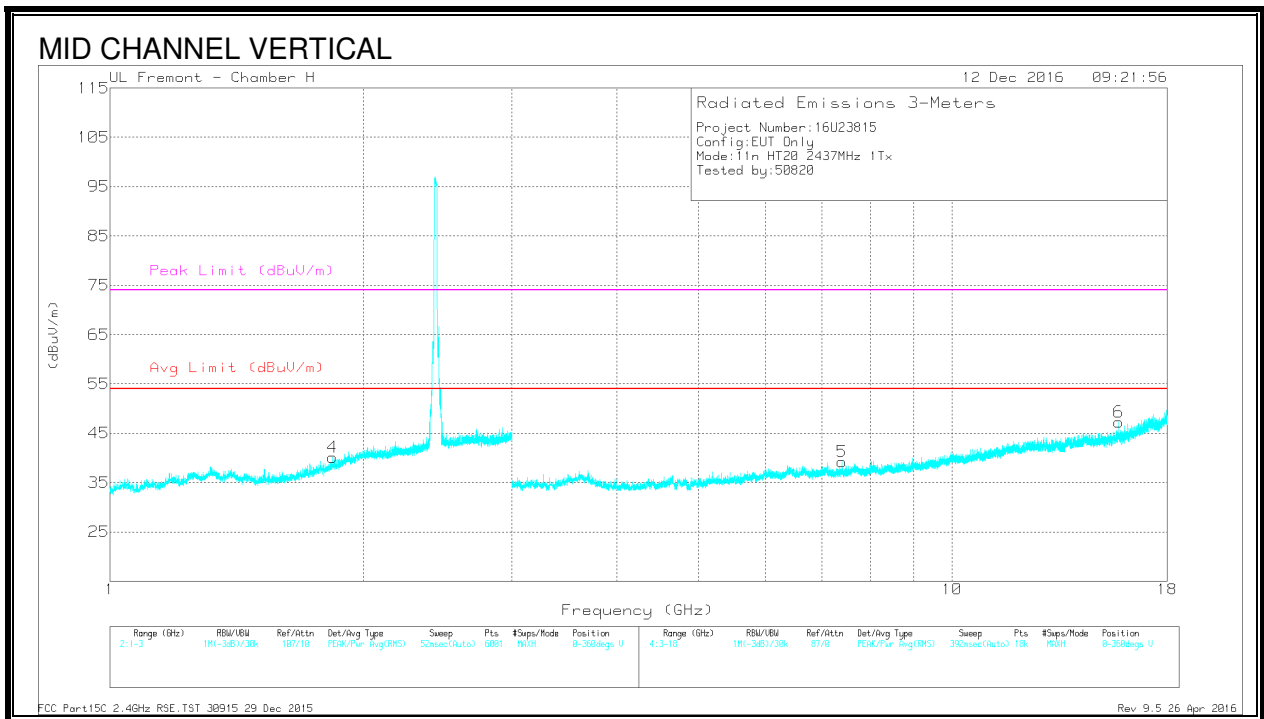
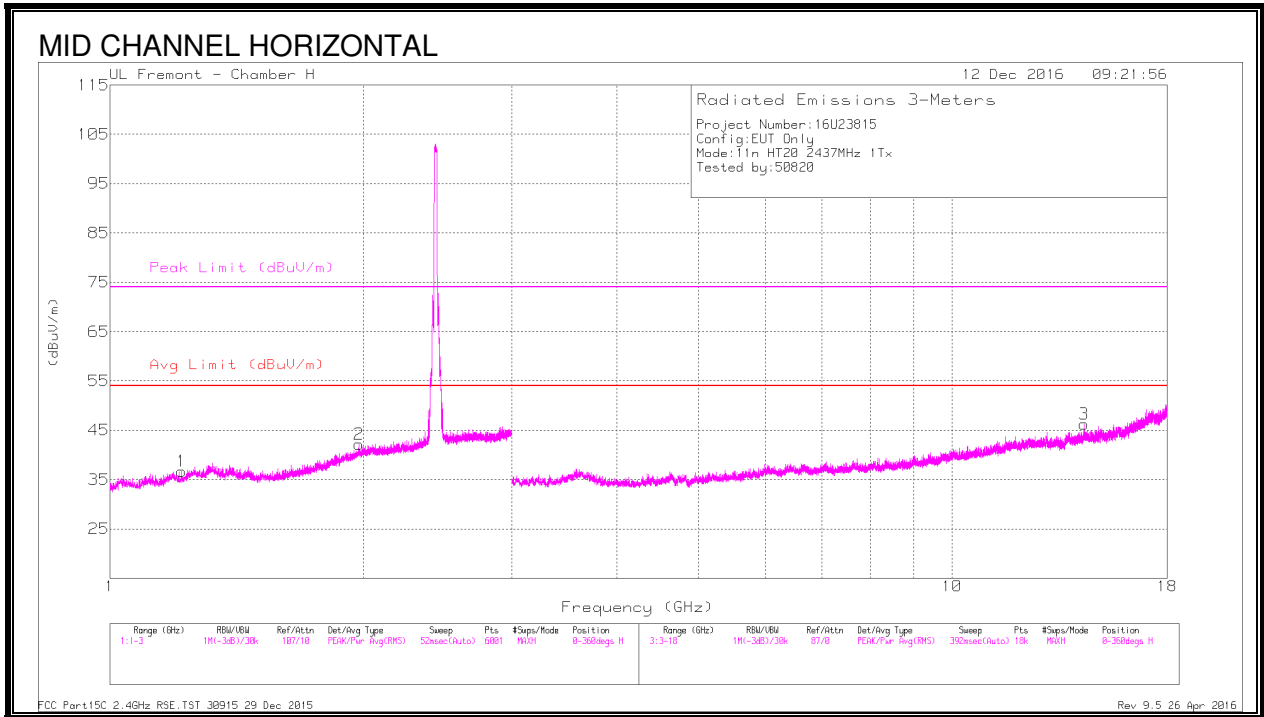


Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.357	37.42	PK2	29.5	-22	44.92	-	-	74	-29.08	0	196	H
	* 1.357	22.21	MAv1	29.5	-21.9	29.81	54	-24.19	-	-	0	196	H
3	* 4.798	44.04	PK2	34	-35.1	42.94	-	-	74	-31.06	18	397	H
	* 4.804	32.83	MAv1	34	-35	31.83	54	-22.17	-	-	18	397	H
2	1.659	37.82	PK2	28.4	-21	45.22	-	-	-	-	186	362	H
	1.659	22.75	MAv1	28.4	-21	30.15	-	-	-	-	186	362	H
4	1.714	37.87	PK2	28.9	-21	45.77	-	-	-	-	196	341	V
	1.714	23.08	MAv1	28.9	-21	30.98	-	-	-	-	196	341	V
5	5.186	31.56	MAv1	34.4	-34.1	31.86	-	-	-	-	10	334	V
	5.188	42.37	PK2	34.4	-34.1	42.67	-	-	-	-	10	334	V
6	6.719	39.95	PK2	35.7	-31.3	44.35	-	-	-	-	6	128	V
	6.721	29	MAv1	35.7	-31.3	33.4	-	-	-	-	6	128	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK2 - KDB558074 Method: Maximum Peak
 MAv1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, CH 6)



Radiated Emissions

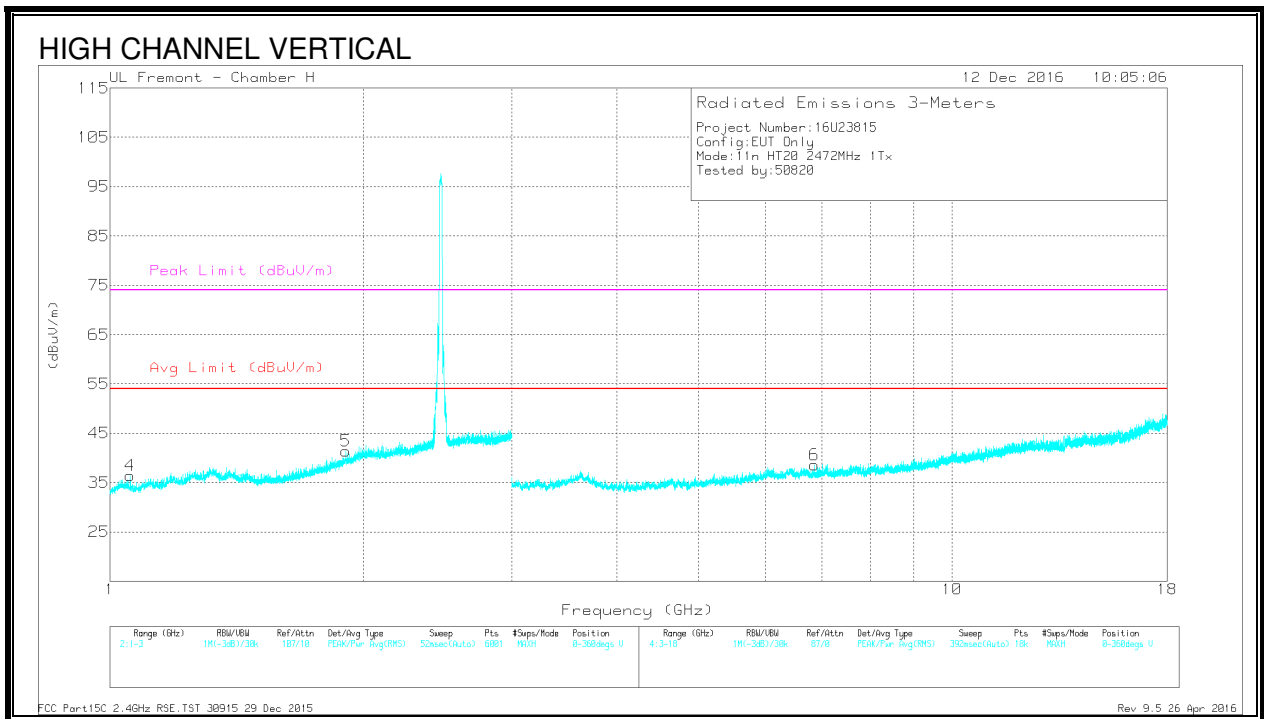
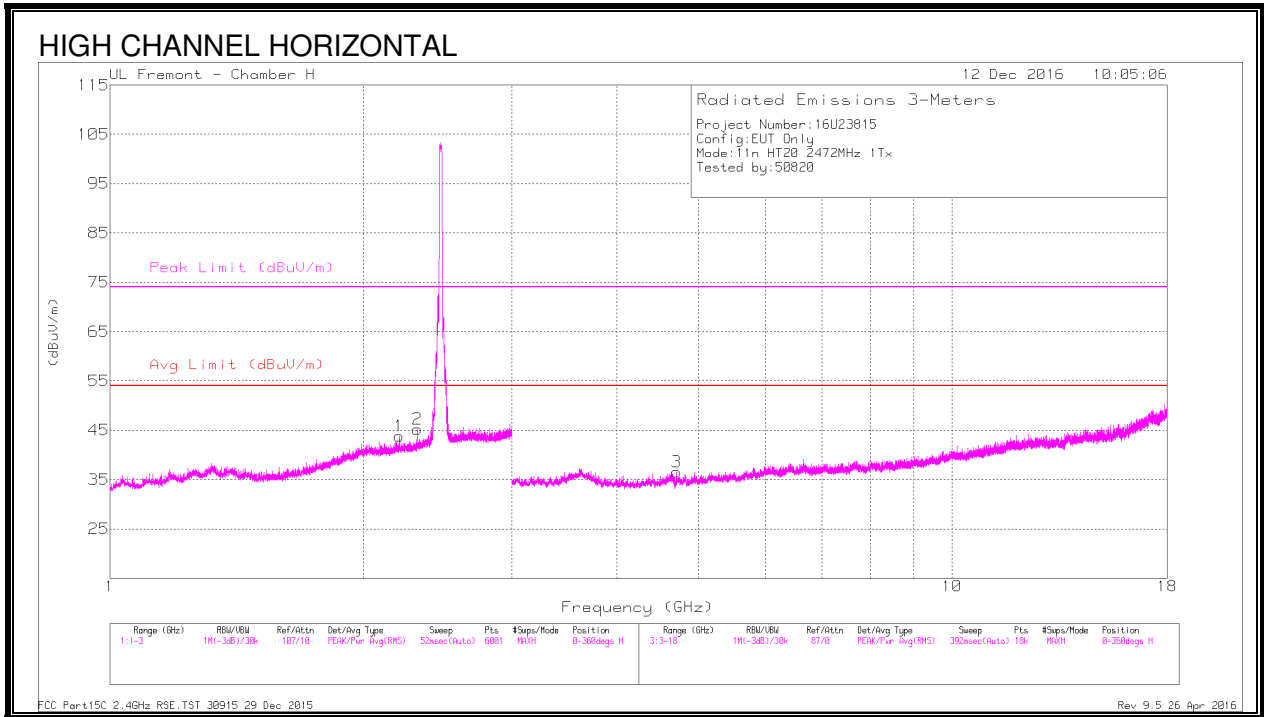
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.218	37.61	PK2	28.8	-22.2	44.21	-	-	74	-29.79	337	147	H
	* 1.216	22.53	MAv1	28.8	-22.2	29.13	54	-24.87	-	-	337	147	H
5	* 7.395	39.91	PK2	35.7	-31	44.61	-	-	74	-29.39	43	105	V
	* 7.395	28.77	MAv1	35.7	-31	33.47	54	-20.53	-	-	43	105	V
6	* 15.765	35.9	PK2	40.3	-24.1	52.1	-	-	74	-21.9	237	311	V
	* 15.768	24.27	MAv1	40.3	-24.1	40.47	54	-13.53	-	-	237	311	V
4	1.837	37.8	PK2	30.3	-21.1	47	-	-	-	-	42	303	V
	1.839	23.04	MAv1	30.4	-21.1	32.34	-	-	-	-	42	303	V
2	1.976	38.4	PK2	31.7	-20.7	49.4	-	-	-	-	351	260	H
	1.976	23.24	MAv1	31.7	-20.7	34.24	-	-	-	-	351	260	H
3	14.349	24.69	MAv1	39.7	-24.3	40.09	-	-	-	-	244	336	H
	14.35	37.14	PK2	39.7	-24.3	52.54	-	-	-	-	244	336	H

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL, CH 13



Radiated Emissions

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.206	38.91	PK2	31.7	-20.1	50.51	-	-	74	-23.49	259	115	H
	* 2.204	22.65	MAv1	31.7	-20.1	34.25	54	-19.75	-	-	259	115	H
2	* 2.32	38.68	PK2	31.6	-19.8	50.48	-	-	74	-23.52	360	204	H
	* 2.318	22.76	MAv1	31.6	-19.8	34.56	54	-19.44	-	-	360	204	H
4	* 1.056	37.26	PK2	27.8	-22.5	42.56	-	-	74	-31.44	26	102	V
	* 1.057	23.13	MAv1	27.8	-22.5	28.43	54	-25.57	-	-	26	102	V
3	* 4.712	42.88	PK2	34	-34.2	42.68	-	-	74	-31.32	73	367	H
	* 4.711	31.32	MAv1	34	-34.2	31.12	54	-22.88	-	-	73	367	H
5	1.907	38.1	PK2	31.1	-20.9	48.3	-	-	-	-	80	266	V
	1.908	23.22	MAv1	31.1	-20.9	33.42	-	-	-	-	80	266	V
5	6.864	29.28	MAv1	35.7	-31.8	33.18	-	-	-	-	275	359	V
	6.867	40.07	PK2	35.7	-31.8	43.97	-	-	-	-	275	359	V

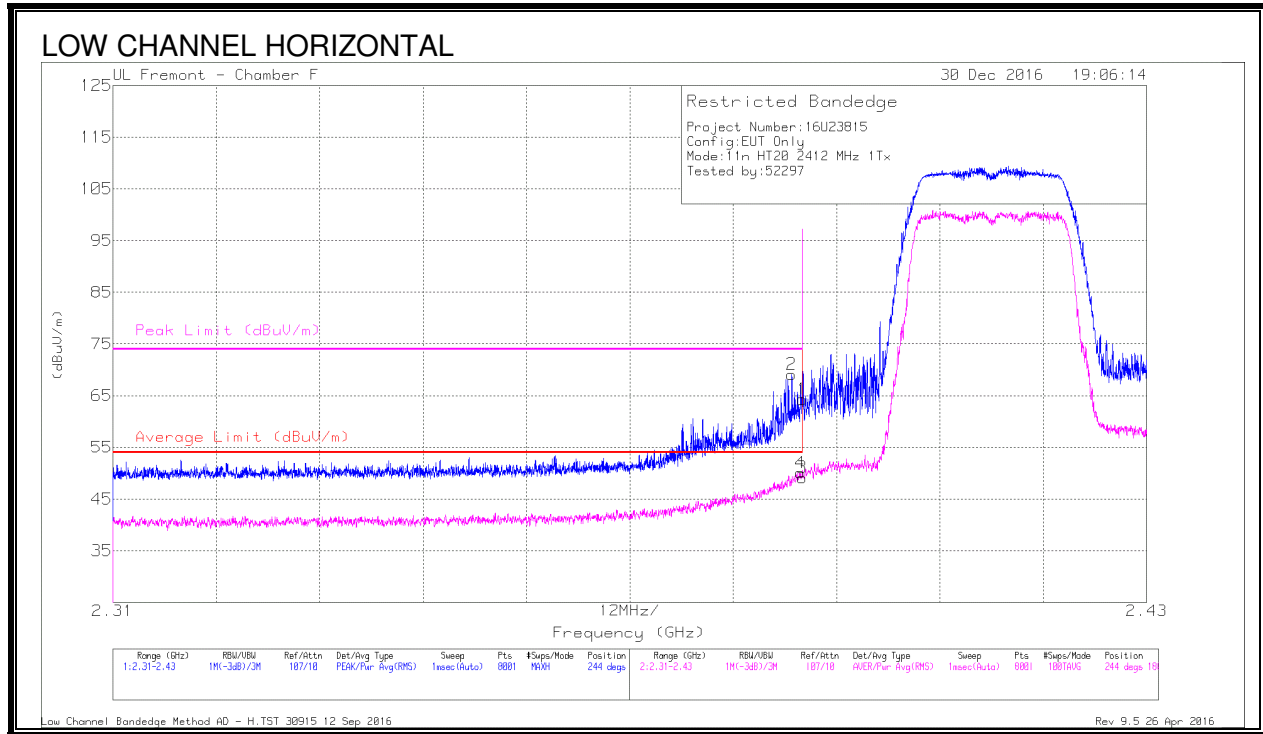
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

9.2.4. 11n HT20 ANTENNA B SISO MODE IN THE 2.4GHZ BAND

AUTHORIZED BANDEGE (LOW CHANNEL, CH 1)

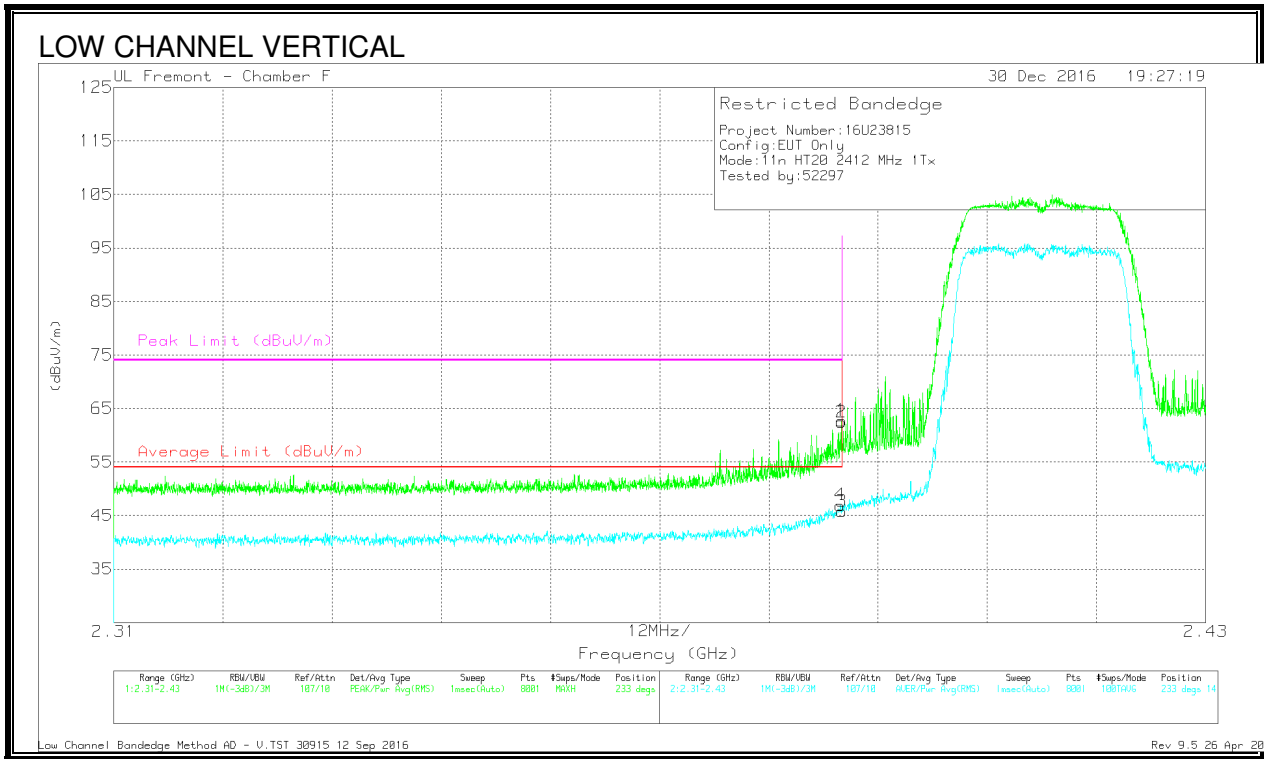


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Filtr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	53.09	Pk	32.1	-20.9	64.29	-	-	74	-9.71	244	180	H
2	* 2.389	57.89	Pk	32.1	-20.9	69.09	-	-	74	-4.91	244	180	H
3	* 2.39	37.93	RMS	32.1	-20.9	49.13	54	-4.87	-	-	244	180	H
4	* 2.39	38.87	RMS	32.1	-20.9	50.07	54	-3.93	-	-	244	180	H

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

Pk - Peak detector

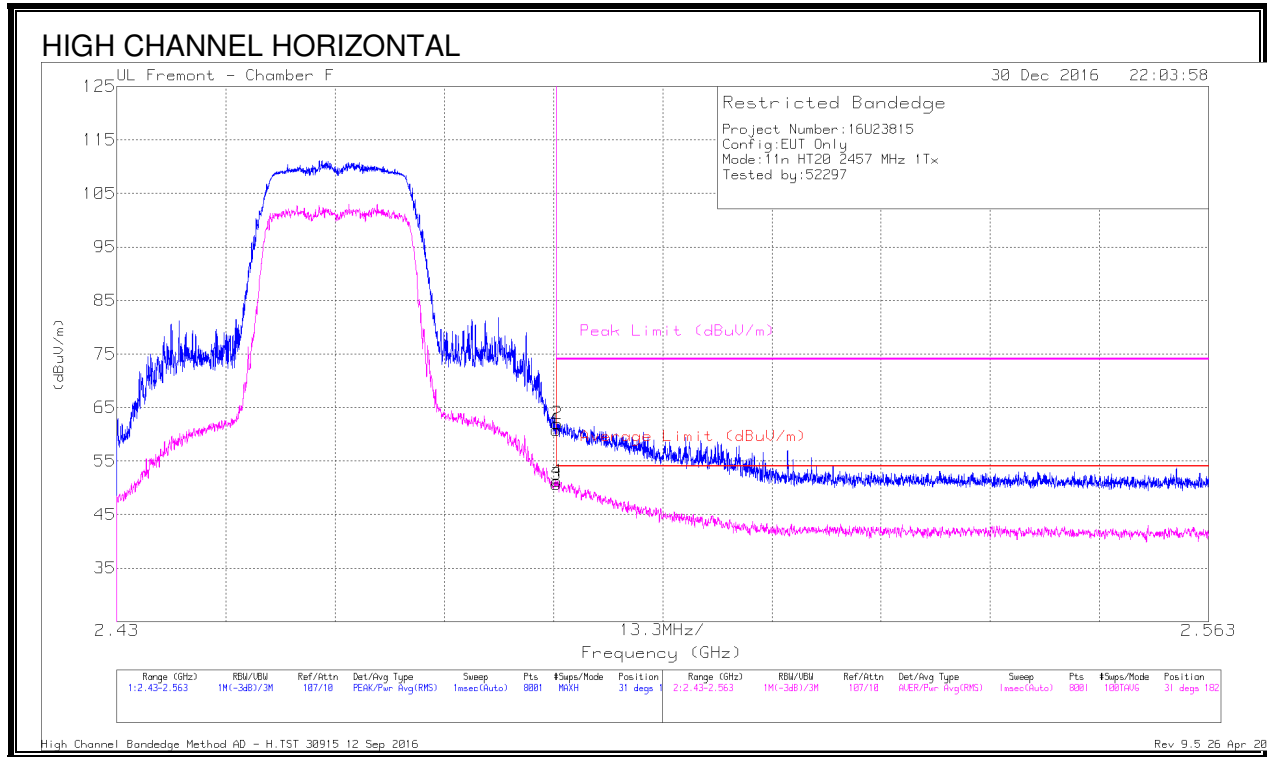
RMS - RMS detection



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	51.49	Pk	32.1	-20.9	62.69	-	-	74	-11.31	233	141	V
2	* 2.39	51.24	Pk	32.1	-20.9	62.44	-	-	74	-11.56	233	141	V
3	* 2.39	34.55	RMS	32.1	-20.9	45.75	54	-8.25	-	-	233	141	V
4	* 2.39	35.73	RMS	32.1	-20.9	46.93	54	-7.07	-	-	233	141	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 10)

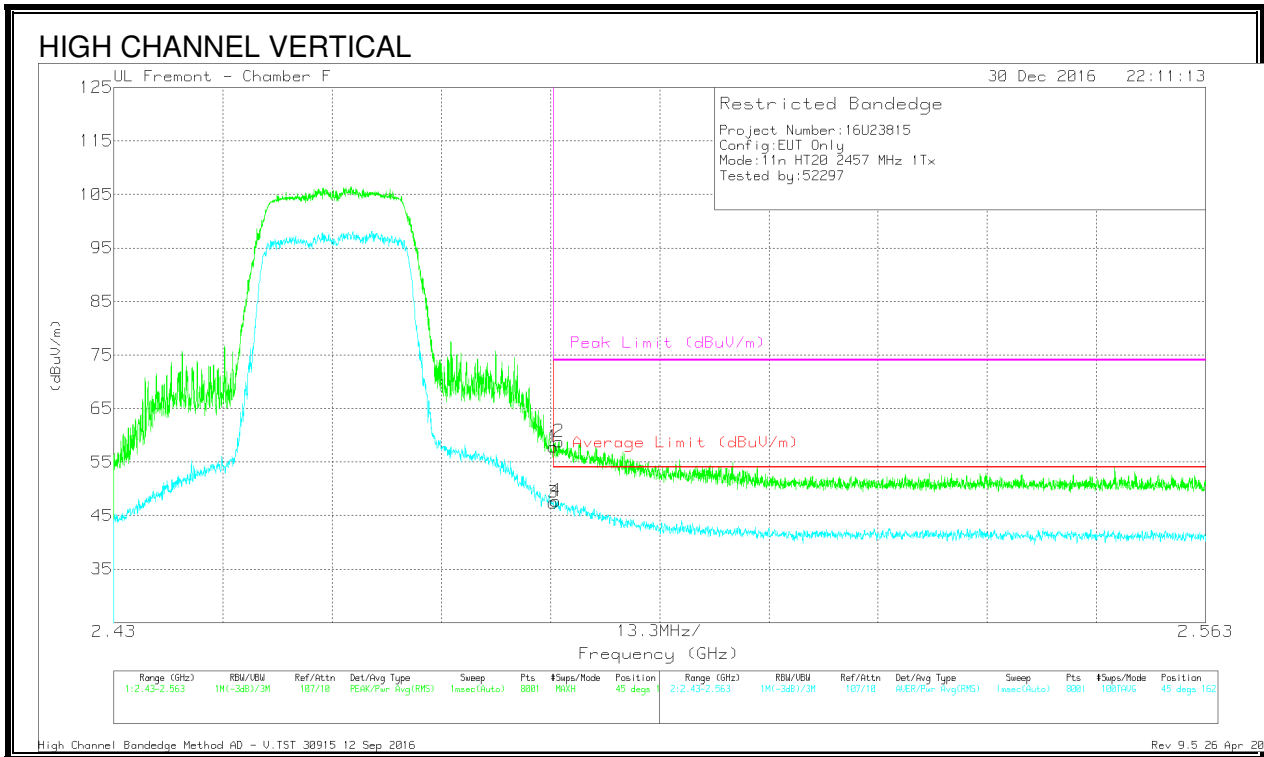


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	49.52	Pk	32.3	-21	60.82	-	-	74	-13.18	31	182	H
2	* 2.484	50.66	Pk	32.3	-21	61.96	-	-	74	-12.04	31	182	H
3	* 2.484	39.32	RMS	32.3	-21	50.62	54	-3.38	-	-	31	182	H
4	* 2.484	39.93	RMS	32.3	-21	51.23	54	-2.77	-	-	31	182	H

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

Pk - Peak detector

RMS - RMS detection



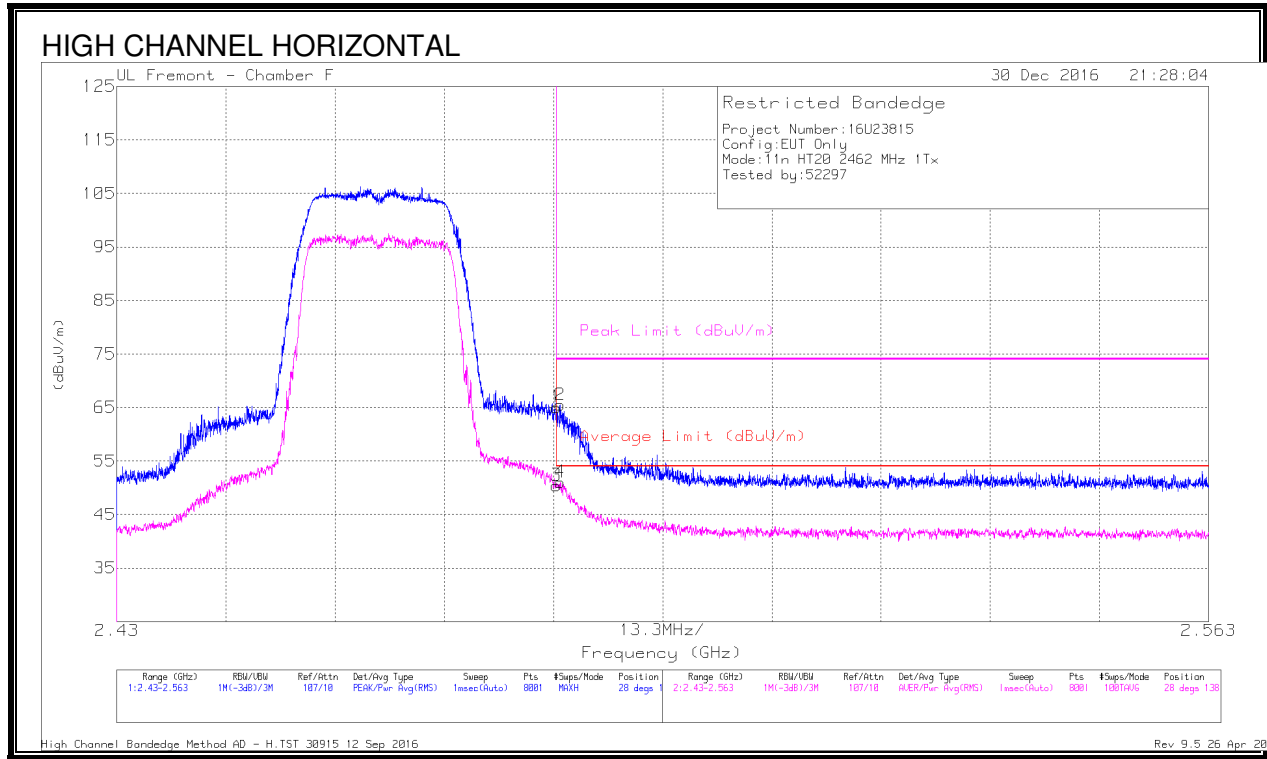
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	46.53	Pk	32.3	-21	57.83	-	-	74	-16.17	45	162	V
2	* 2.484	47.52	Pk	32.3	-21	58.82	-	-	74	-15.18	45	162	V
3	* 2.484	36.12	RMS	32.3	-21	47.42	54	-6.58	-	-	45	162	V
4	* 2.484	36.46	RMS	32.3	-21	47.76	54	-6.24	-	-	45	162	V

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

Pk - Peak detector

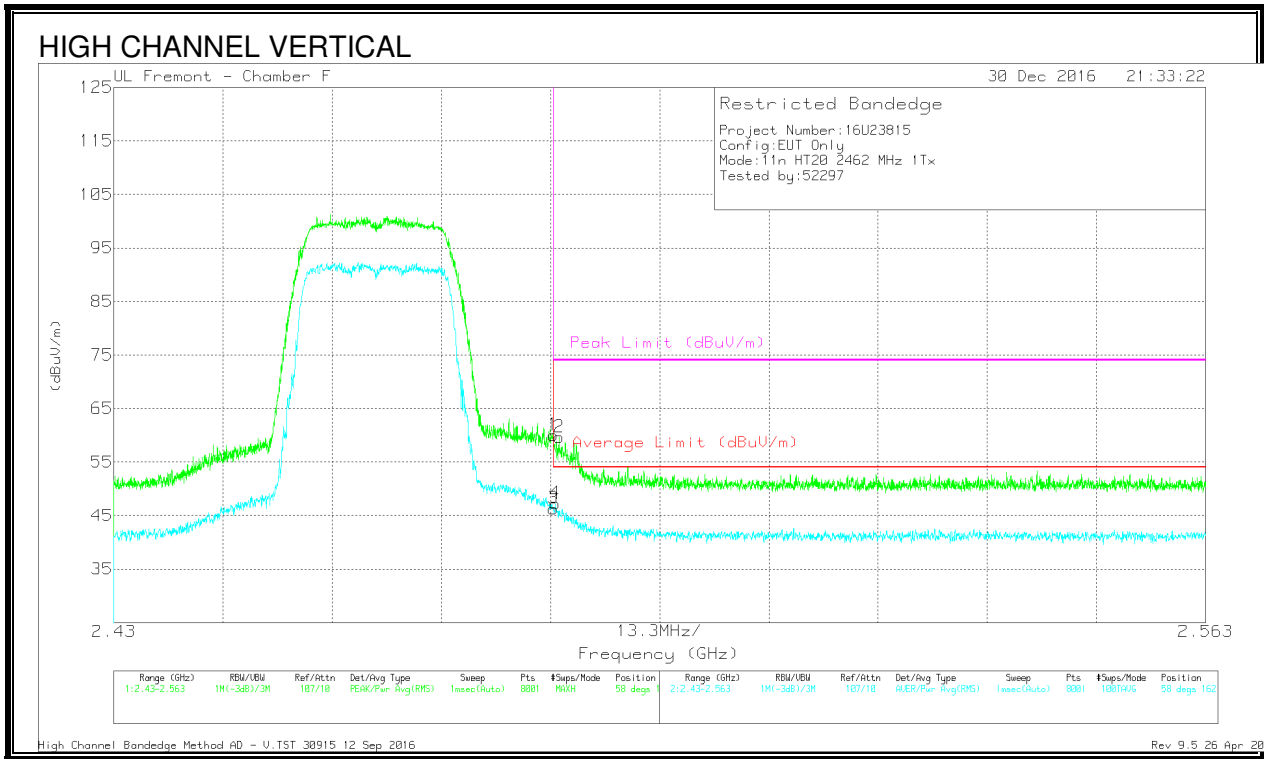
RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 11)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	53.75	Pk	32.3	-21	65.05	-	-	74	-8.95	28	138	H
2	* 2.484	54.16	Pk	32.3	-21	65.46	-	-	74	-8.54	28	138	H
3	* 2.484	39.11	RMS	32.3	-21	50.41	54	-3.59	-	-	28	138	H
4	* 2.484	39.75	RMS	32.3	-21	51.05	54	-2.95	-	-	28	138	H

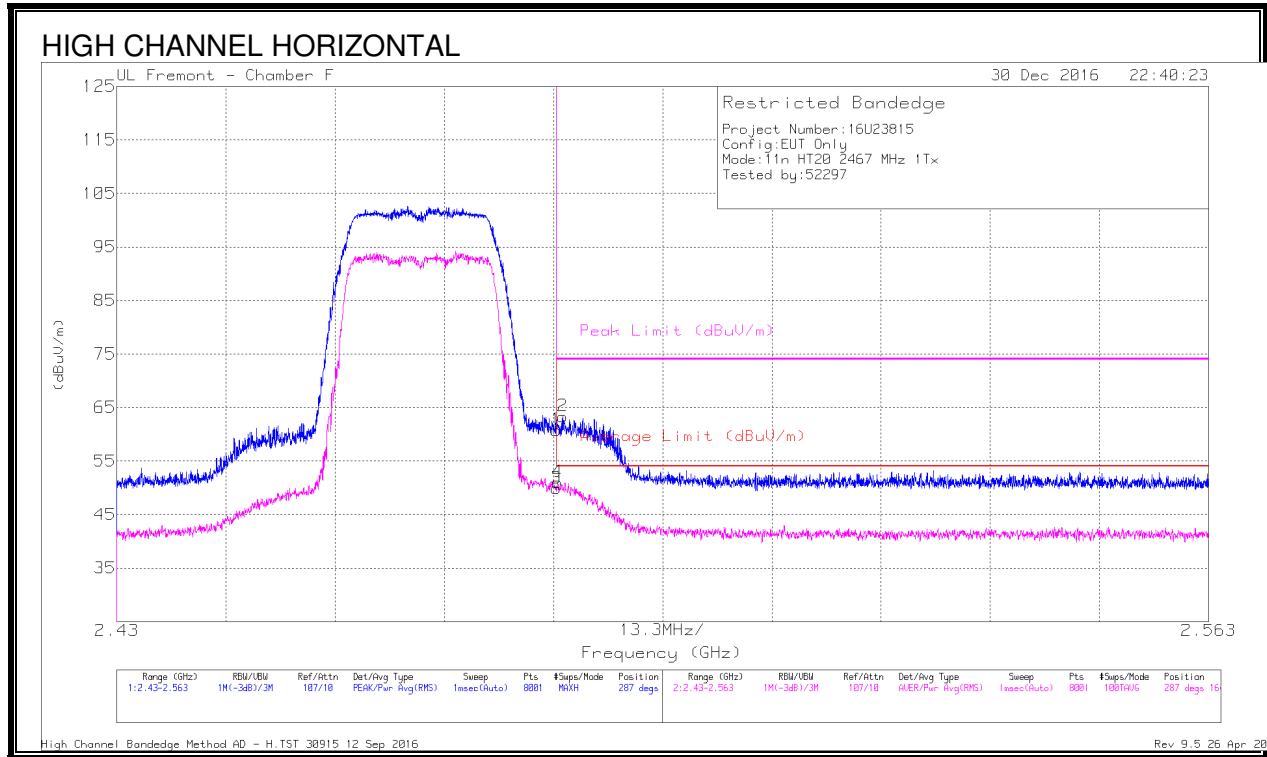
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection



Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	48.73	Pk	32.3	-21	60.03	-	-	74	-13.97	58	162	V
2	* 2.484	48.35	Pk	32.3	-21	59.65	-	-	74	-14.35	58	162	V
3	* 2.484	35.01	RMS	32.3	-21	46.31	54	-7.69	-	-	58	162	V
4	* 2.484	35.97	RMS	32.3	-21	47.27	54	-6.73	-	-	58	162	V

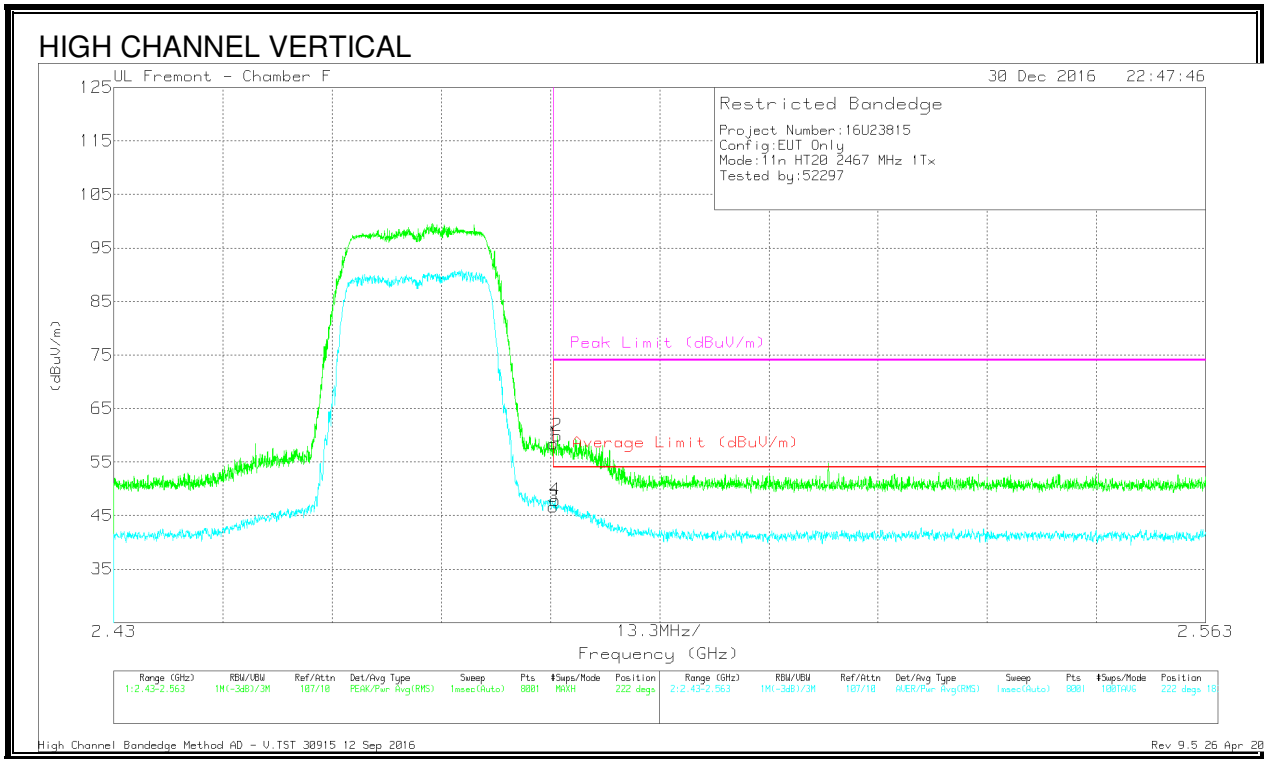
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 12)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl /Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	49.47	Pk	32.3	-21	60.77	-	-	74	-13.23	287	164	H
2	* 2.484	52.05	Pk	32.3	-21	63.35	-	-	74	-10.65	287	164	H
3	* 2.484	38.58	RMS	32.3	-21	49.88	54	-4.12	-	-	287	164	H
4	* 2.484	39.73	RMS	32.3	-21	51.03	54	-2.97	-	-	287	164	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection



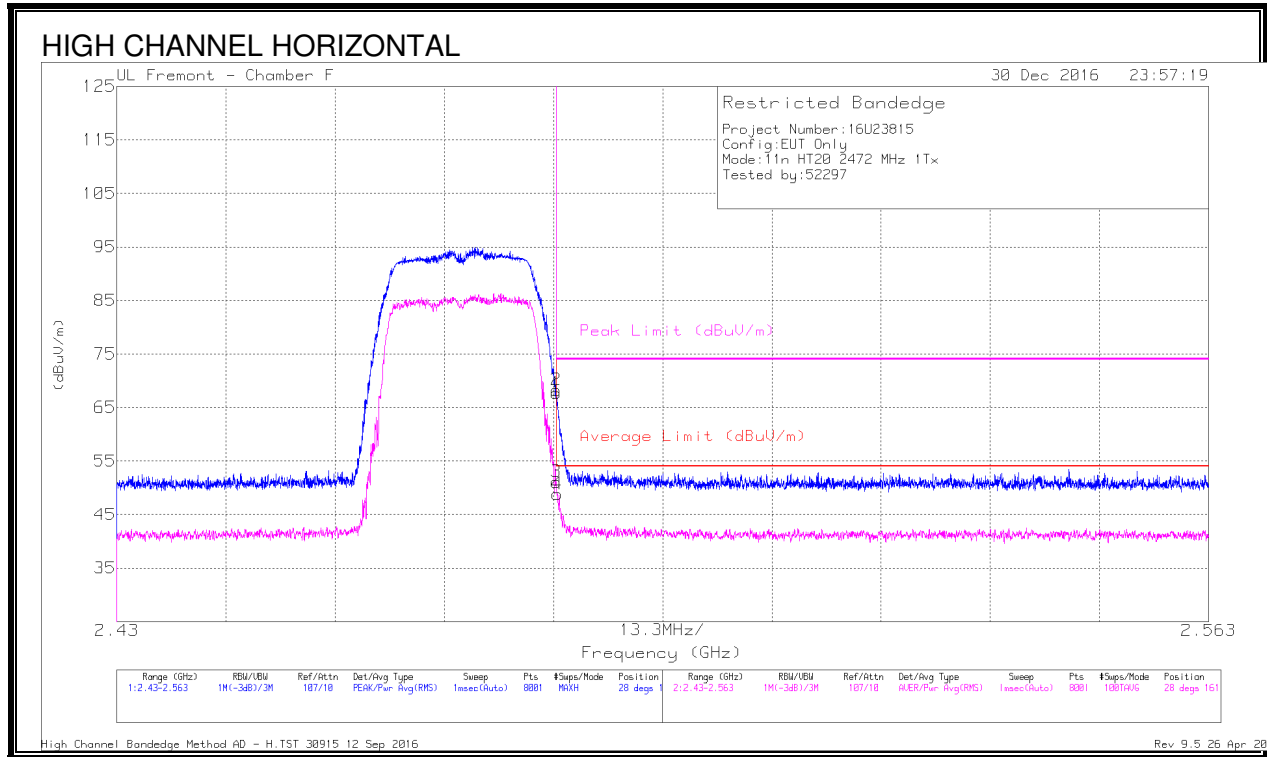
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	47.13	Pk	32.3	-21	58.43	-	-	74	-15.57	222	183	V
2	* 2.484	48.61	Pk	32.3	-21	59.91	-	-	74	-14.09	222	183	V
3	* 2.484	35.33	RMS	32.3	-21	46.63	54	-7.37	-	-	222	183	V
4	* 2.484	36.61	RMS	32.3	-21	47.91	54	-6.09	-	-	222	183	V

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

Pk - Peak detector

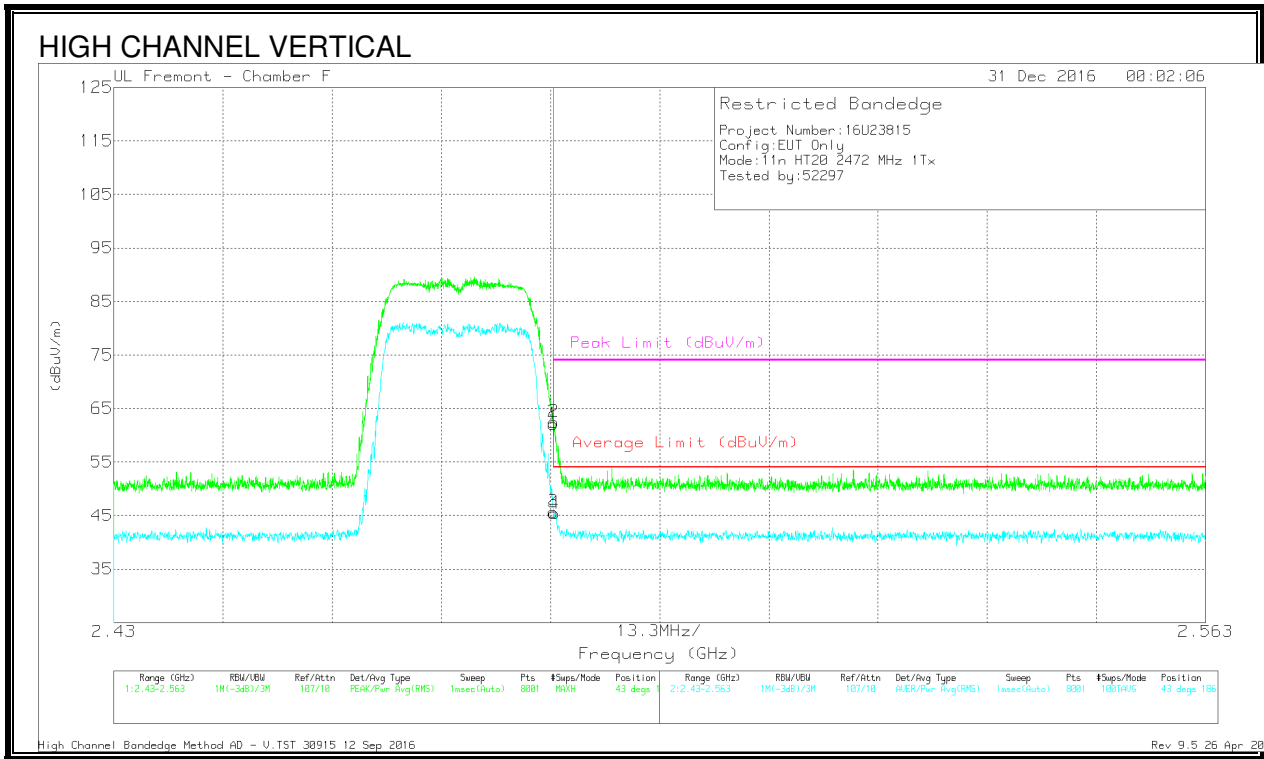
RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 13)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl /Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	56.37	Pk	32.3	-21	67.67	-	-	74	-6.33	28	161	H
2	* 2.484	56.93	Pk	32.3	-21	68.23	-	-	74	-5.77	28	161	H
3	* 2.484	39.79	RMS	32.3	-21	51.09	54	-2.91	-	-	28	161	H
4	* 2.484	37.52	RMS	32.3	-21	48.82	54	-5.18	-	-	28	161	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection



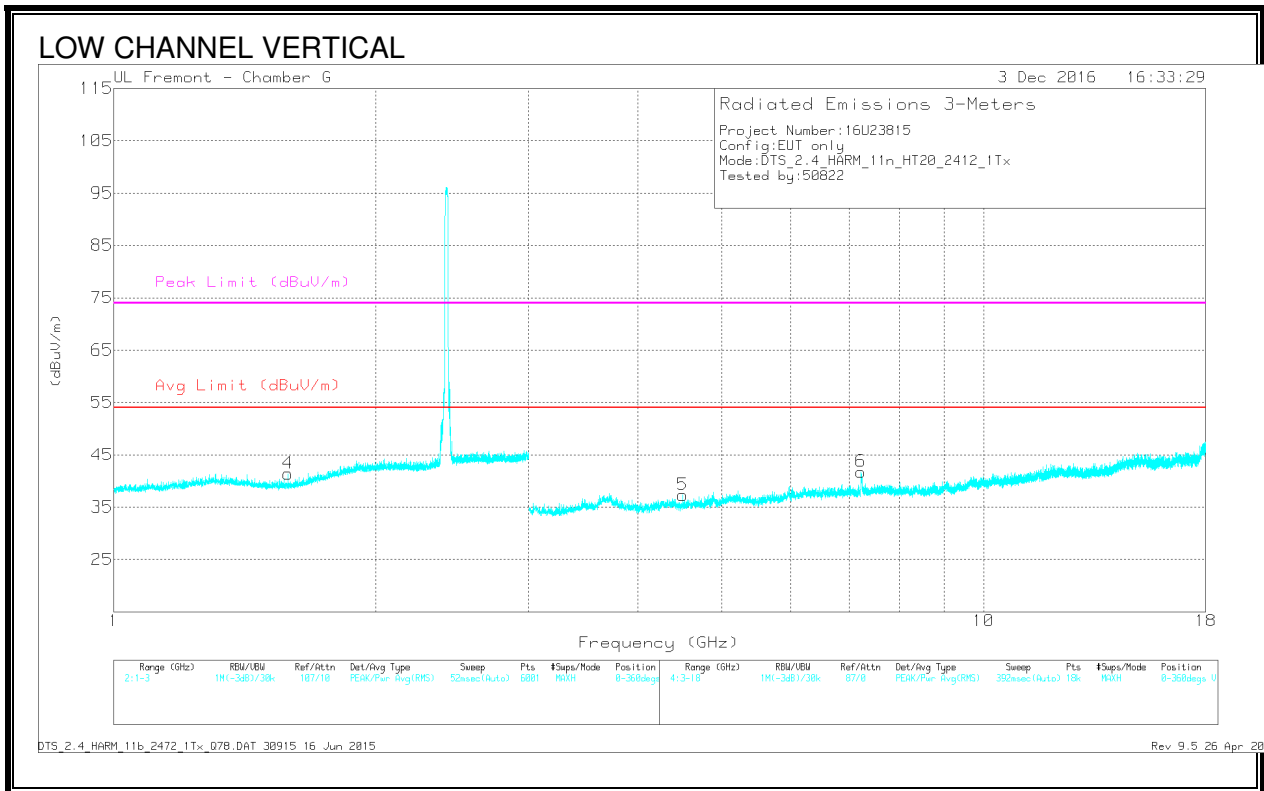
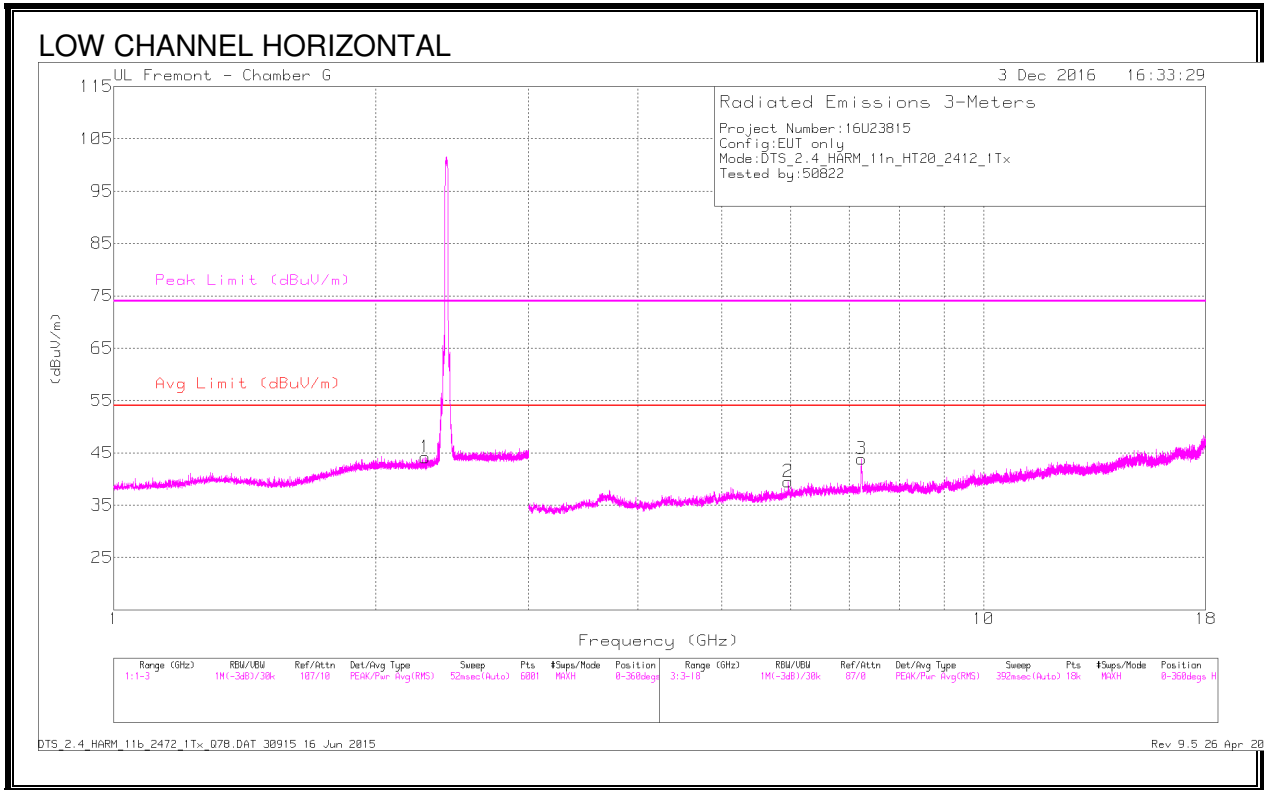
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl /Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	50.75	Pk	32.3	-21	62.05	-	-	74	-11.95	43	186	V
2	* 2.484	51.2	Pk	32.3	-21	62.5	-	-	74	-11.5	43	186	V
3	* 2.484	34.39	RMS	32.3	-21	45.69	54	-8.31	-	-	43	186	V
4	* 2.484	34.14	RMS	32.3	-21	45.44	54	-8.56	-	-	43	186	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)



Radiated Emissions

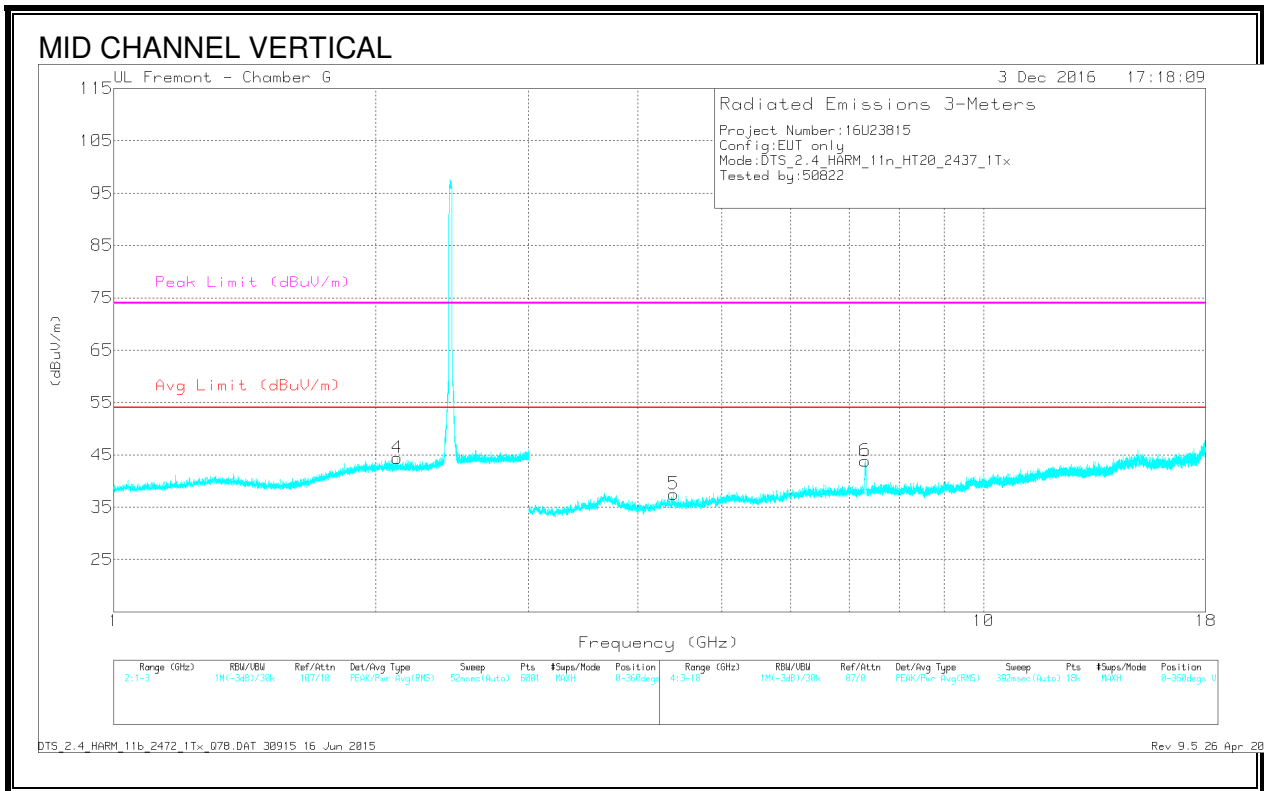
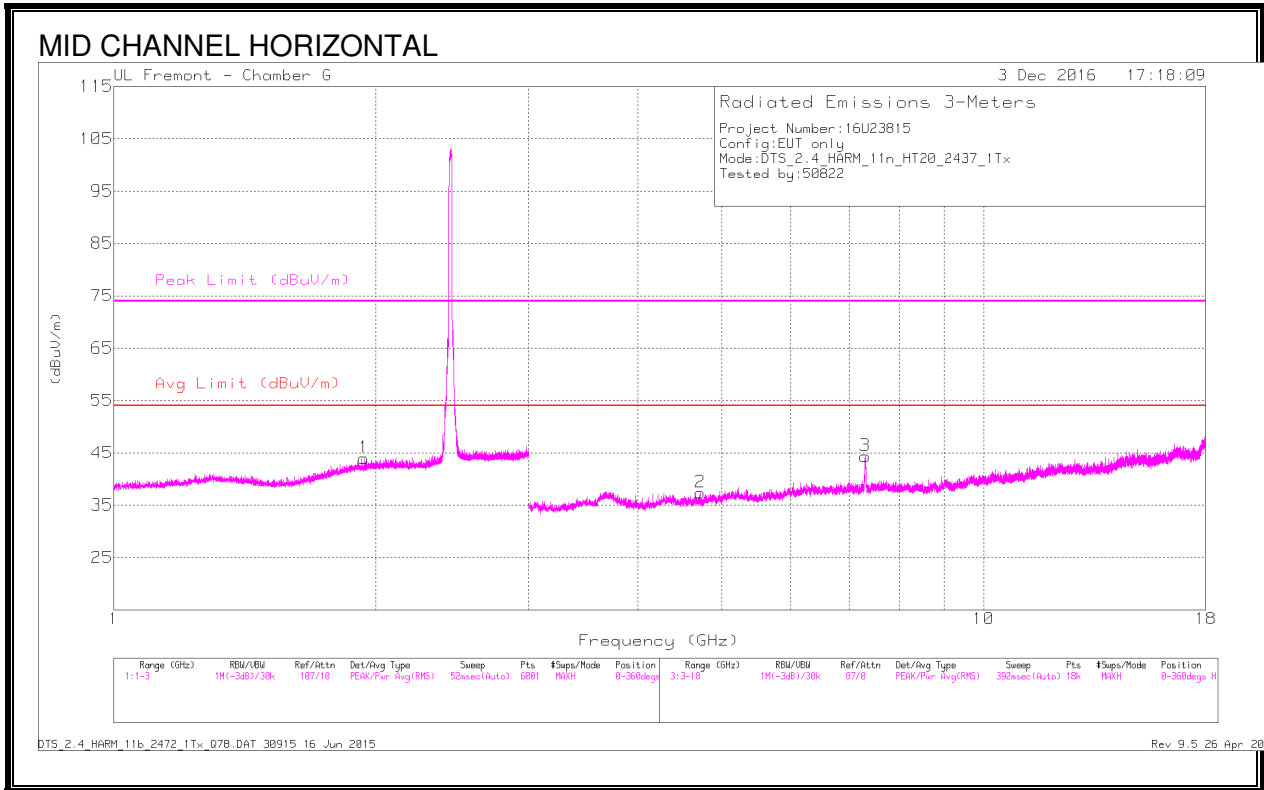
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.28	44.02	PK2	31.5	-23.9	51.62	-	-	74	-22.38	7	400	H
	* 2.28	31.5	MAv1	31.5	-23.9	39.1	54	-14.9	-	-	7	400	H
4	* 1.585	44.01	PK2	28.1	-24.5	47.61	-	-	74	-26.39	35	392	V
	* 1.586	32.11	MAv1	28.1	-24.5	35.71	54	-18.29	-	-	35	392	V
5	* 4.511	42.23	PK2	34.1	-32.1	44.23	-	-	74	-29.77	126	301	V
	* 4.51	30.2	MAv1	34.1	-32.1	32.2	54	-21.8	-	-	126	301	V
2	5.961	40.78	PK2	35.3	-30.7	45.38	-	-	-	-	210	309	H
	5.961	29.76	MAv1	35.3	-30.7	34.36	-	-	-	-	210	309	H
6	7.23	30.98	MAv1	35.8	-29.9	36.88	-	-	-	-	221	267	V
	7.231	42.15	PK2	35.8	-29.9	48.05	-	-	-	-	221	267	V
3	7.238	46.31	PK2	35.8	-29.9	52.21	-	-	-	-	168	157	H
	7.239	35.28	MAv1	35.8	-29.8	41.28	-	-	-	-	168	157	H

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL, CH 6)

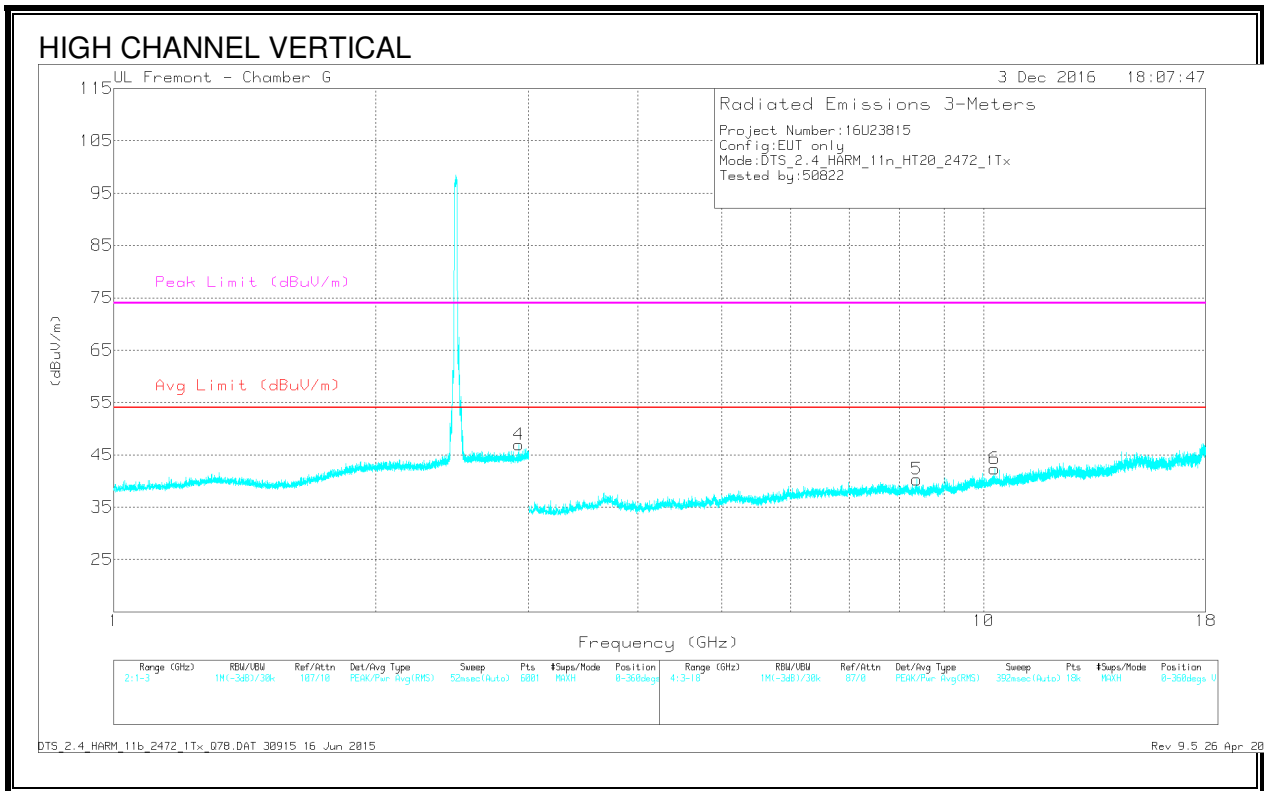
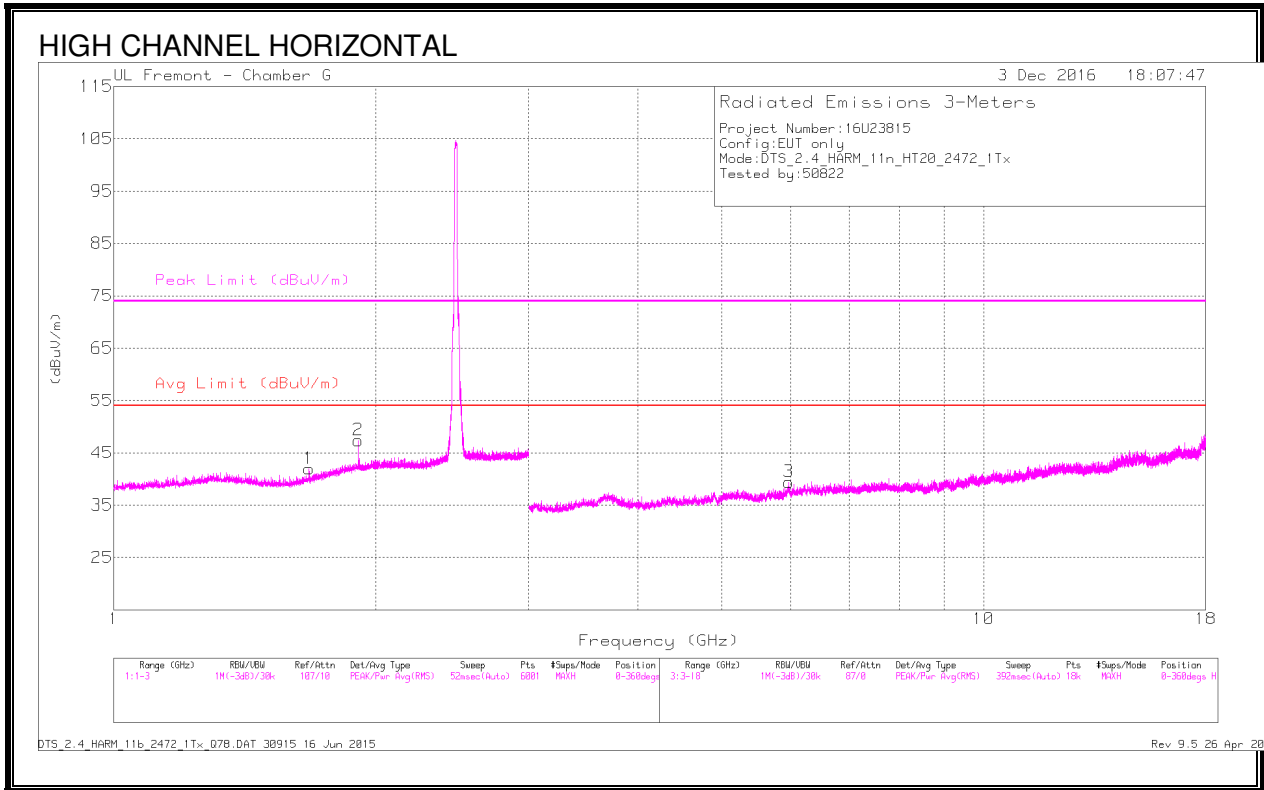


Radiated Emissions

Marker	Frequen- cy (GHz)	Meter Readin g (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimet h (Degs)	Heigh t (cm)	Polarit y
2	* 4.725	40.43	PK2	34.4	-31.7	43.13	-	-	74	-30.87	278	122	H
	* 4.723	29.44	MAv1	34.4	-31.7	32.14	54	-21.86	-	-	278	122	H
3	* 7.309	47.18	PK2	35.8	-29.7	53.28	-	-	74	-20.72	242	182	H
	* 7.308	36.12	MAv1	35.8	-29.7	42.22	54	-11.78	-	-	242	182	H
6	* 7.308	46.79	PK2	35.8	-29.7	52.89	-	-	74	-21.11	187	143	V
	* 7.31	36	MAv1	35.8	-29.7	42.1	54	-11.9	-	-	187	143	V
1	1.937	42.55	PK2	31.5	-24.3	49.75	-	-	-	-	166	277	H
	1.939	30.32	MAv1	31.5	-24.3	37.52	-	-	-	-	166	277	H
4	2.119	43.43	PK2	31.6	-24	51.03	-	-	-	-	73	374	V
	2.12	31.83	MAv1	31.6	-24	39.43	-	-	-	-	73	374	V
5	4.404	41.16	PK2	34.1	-31.8	43.46	-	-	-	-	120	314	V
	4.404	29.96	MAv1	34.1	-31.8	32.26	-	-	-	-	120	314	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK2 - KDB558074 Method: Maximum Peak
 MAv1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL, CH 13)



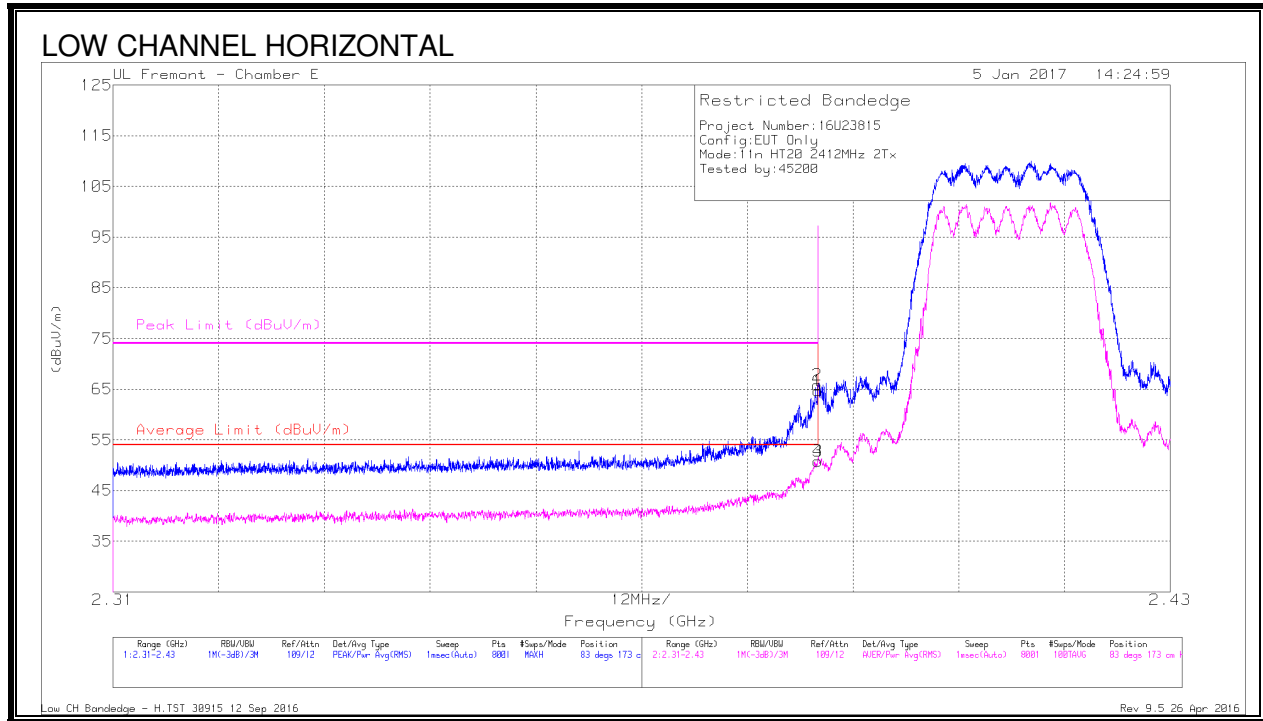
Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.678	42.94	PK2	29	-24.3	47.64	-	-	74	-26.36	78	105	H
	* 1.677	31.11	MAv1	29	-24.3	35.81	54	-18.19	-	-	78	105	H
5	* 8.379	39.13	PK2	35.8	-28.7	46.23	-	-	74	-27.77	40	173	V
	* 8.382	27.56	MAv1	35.8	-28.7	34.66	54	-19.34	-	-	40	173	V
2	1.908	44.33	PK2	31.4	-24.3	51.43	-	-	-	-	217	396	H
	1.911	32.09	MAv1	31.4	-24.3	39.19	-	-	-	-	217	396	H
4	2.921	30.62	MAv1	32.6	-23.3	39.92	-	-	-	-	276	163	V
	2.924	43.14	PK2	32.6	-23.3	52.44	-	-	-	-	276	163	V
3	5.971	29.7	MAv1	35.3	-30.6	34.4	-	-	-	-	156	207	H
	5.972	41.29	PK2	35.3	-30.5	46.09	-	-	-	-	156	207	H
6	10.295	25.66	MAv1	37.3	-26.5	36.46	-	-	-	-	4	208	V
	10.296	36.73	PK2	37.3	-26.4	47.63	-	-	-	-	4	208	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK2 - KDB558074 Method: Maximum Peak
 MAv1 - KDB558074 Option 1 Maximum RMS Average

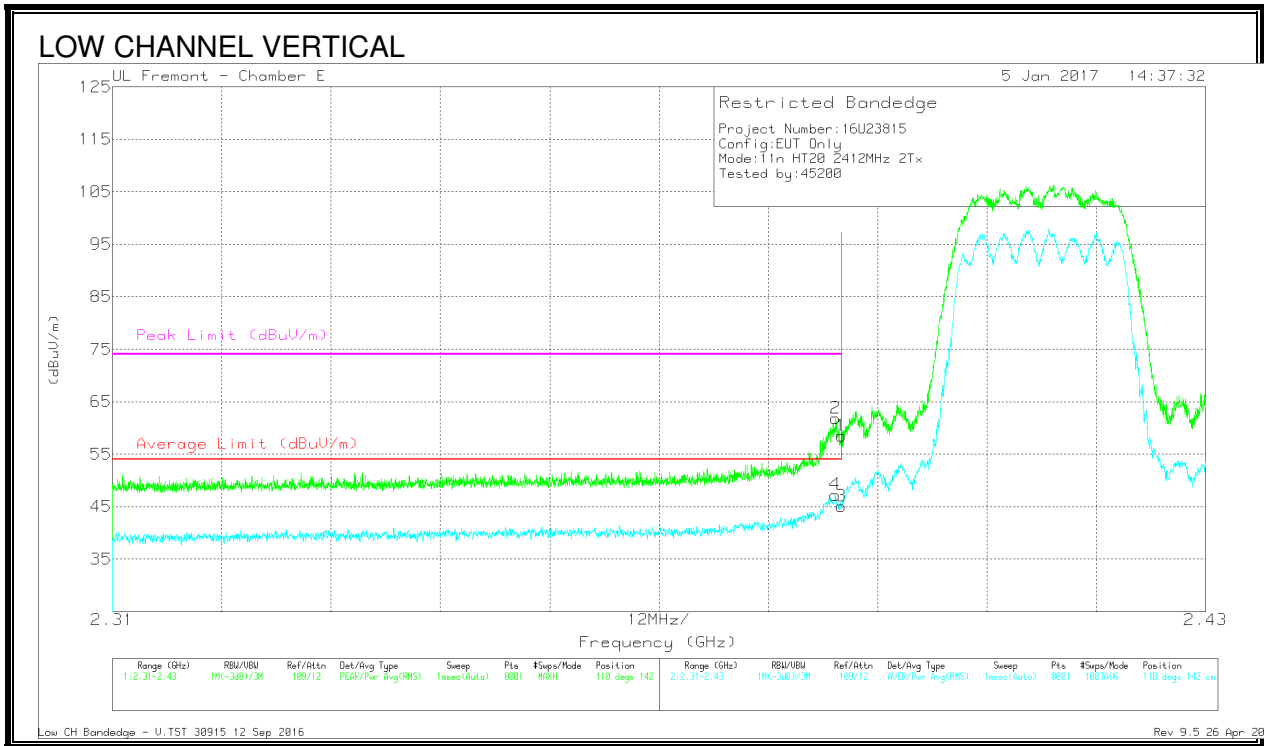
9.2.5. 11n HT20 2TX CDD MIMO MODE IN THE 2.4GHZ BAND

AUTHORIZED BANDEGE (LOW CHANNEL, CH 1)



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	* 2.39	52.26	Pk	32.1	-19.7	64.66	-	-	74	-9.34	83	173	H
2	* 2.39	53.46	Pk	32.1	-19.7	65.86	-	-	74	-8.14	83	173	H
3	* 2.39	38.43	RMS	32.1	-19.7	50.83	54	-3.17	-	-	83	173	H
4	* 2.39	38.39	RMS	32.1	-19.7	50.79	54	-3.21	-	-	83	173	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection



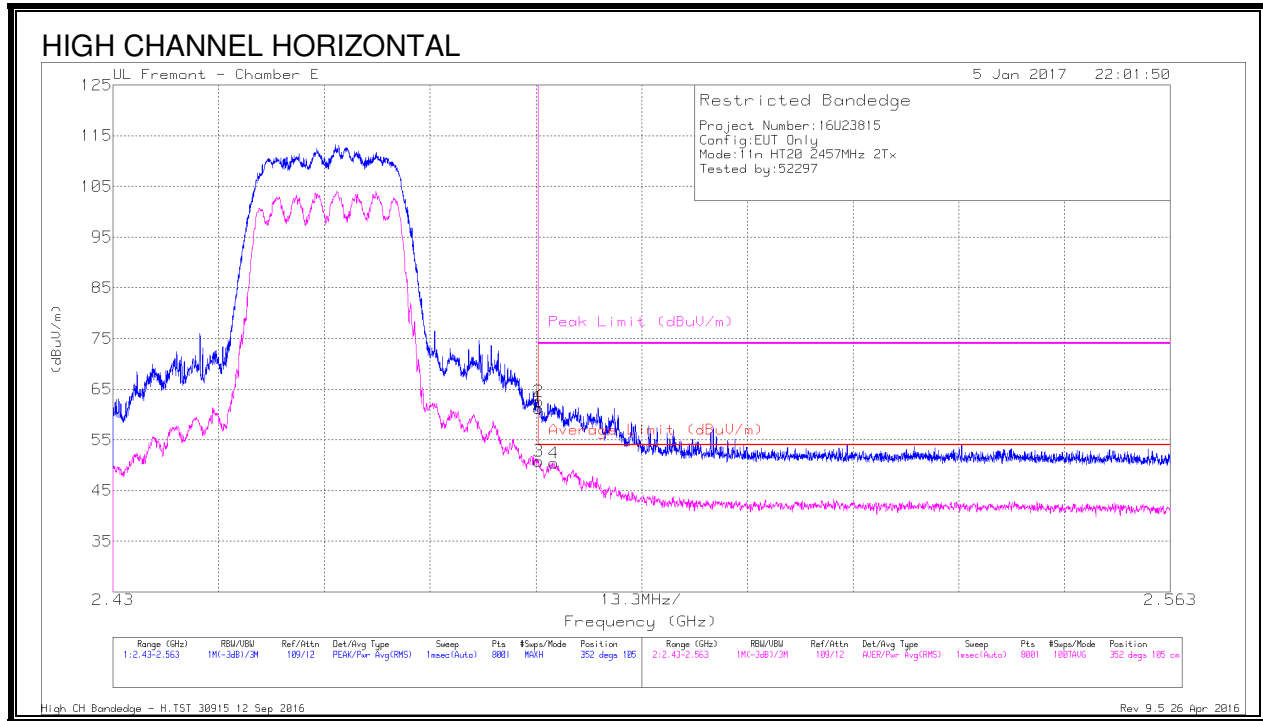
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cb/r/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.389	49.4	Pk	32.1	-19.7	61.8	-	-	74	-12.2	110	142	V
4	* 2.389	34.85	RMS	32.1	-19.7	47.25	54	-6.75	-	-	110	142	V
1	* 2.39	46.04	Pk	32.1	-19.7	58.44	-	-	74	-15.56	110	142	V
3	* 2.39	32.69	RMS	32.1	-19.7	45.09	54	-8.91	-	-	110	142	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 10)

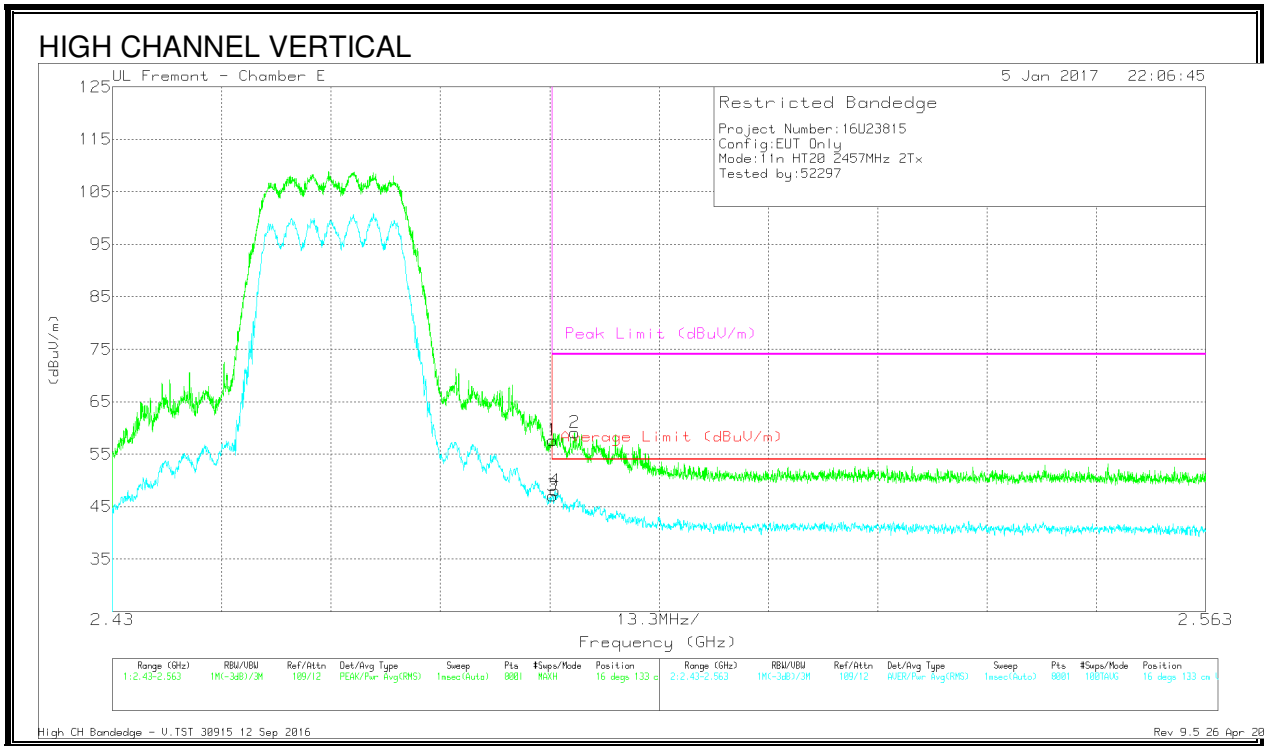


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	48.63	Pk	32.3	-19.7	61.23	-	-	74	-12.77	352	105	H
2	* 2.484	49.98	Pk	32.3	-19.7	62.58	-	-	74	-11.42	352	105	H
3	* 2.484	38.22	RMS	32.3	-19.7	50.82	54	-3.18	-	-	352	105	H
4	* 2.485	37.87	RMS	32.3	-19.7	50.47	54	-3.53	-	-	352	105	H

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

Pk - Peak detector

RMS - RMS detection



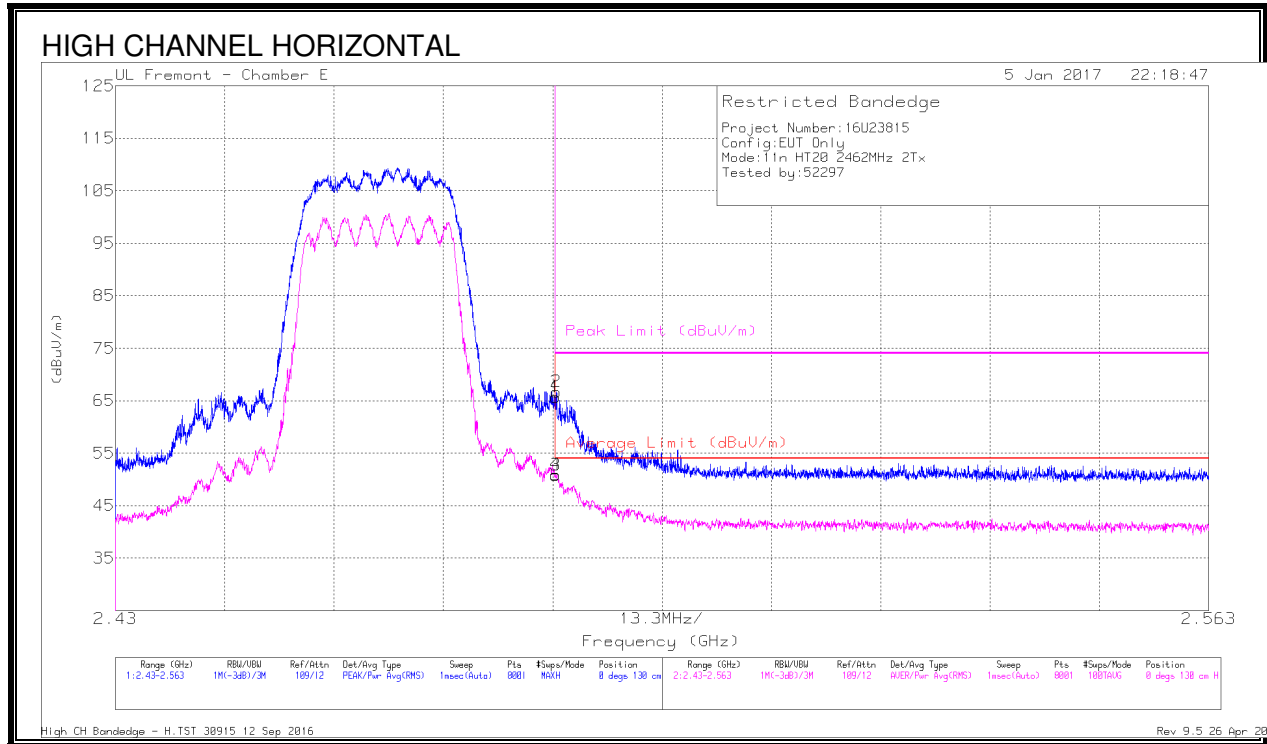
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cb/r/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	45.05	Pk	32.3	-19.7	57.65	-	-	74	-16.35	16	133	V
3	* 2.484	34.5	RMS	32.3	-19.7	47.1	54	-6.9	-	-	16	133	V
4	* 2.484	35.4	RMS	32.3	-19.7	48	54	-6	-	-	16	133	V
2	* 2.486	46.57	Pk	32.3	-19.8	59.07	-	-	74	-14.93	16	133	V

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

Pk - Peak detector

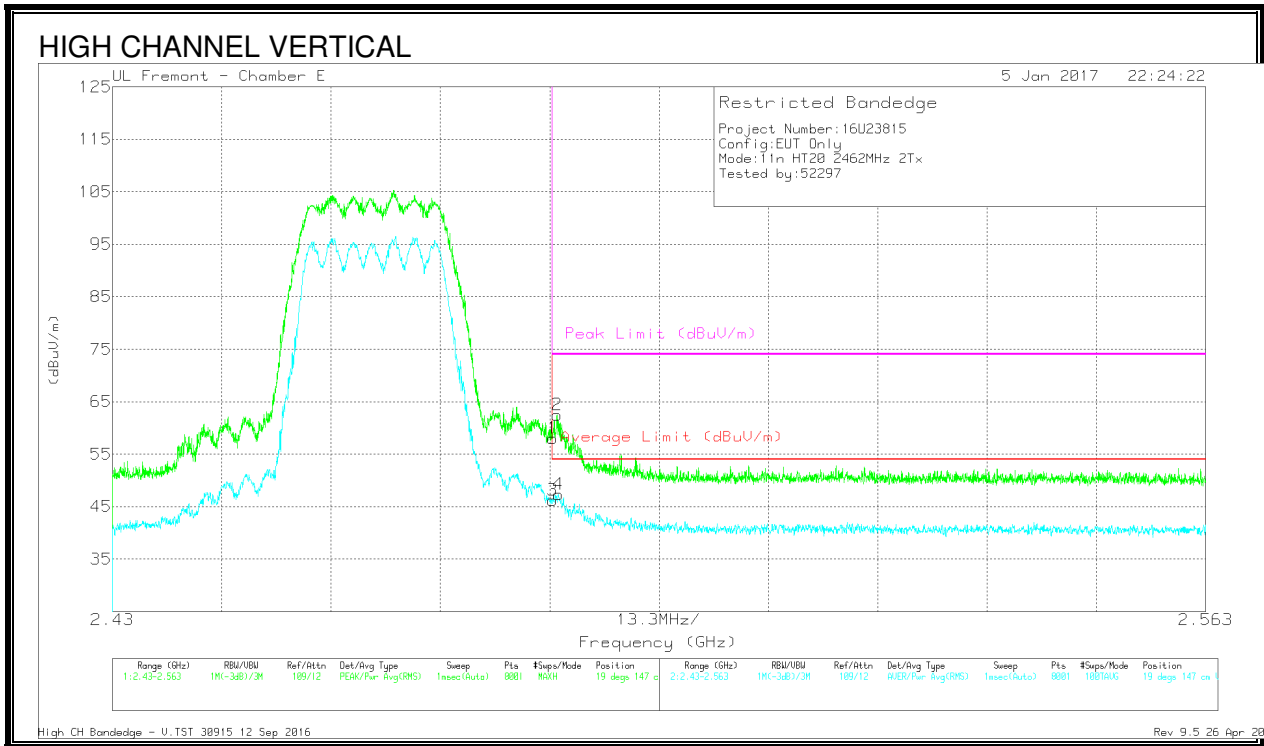
RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 11)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Fit r/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	53.11	Pk	32.3	-19.7	65.71	-	-	74	-8.29	0	130	H
2	* 2.484	54.12	Pk	32.3	-19.7	66.72	-	-	74	-7.28	0	130	H
3	* 2.484	38.19	RMS	32.3	-19.7	50.79	54	-3.21	-	-	0	130	H
4	* 2.484	38.35	RMS	32.3	-19.7	50.95	54	-3.05	-	-	0	130	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection



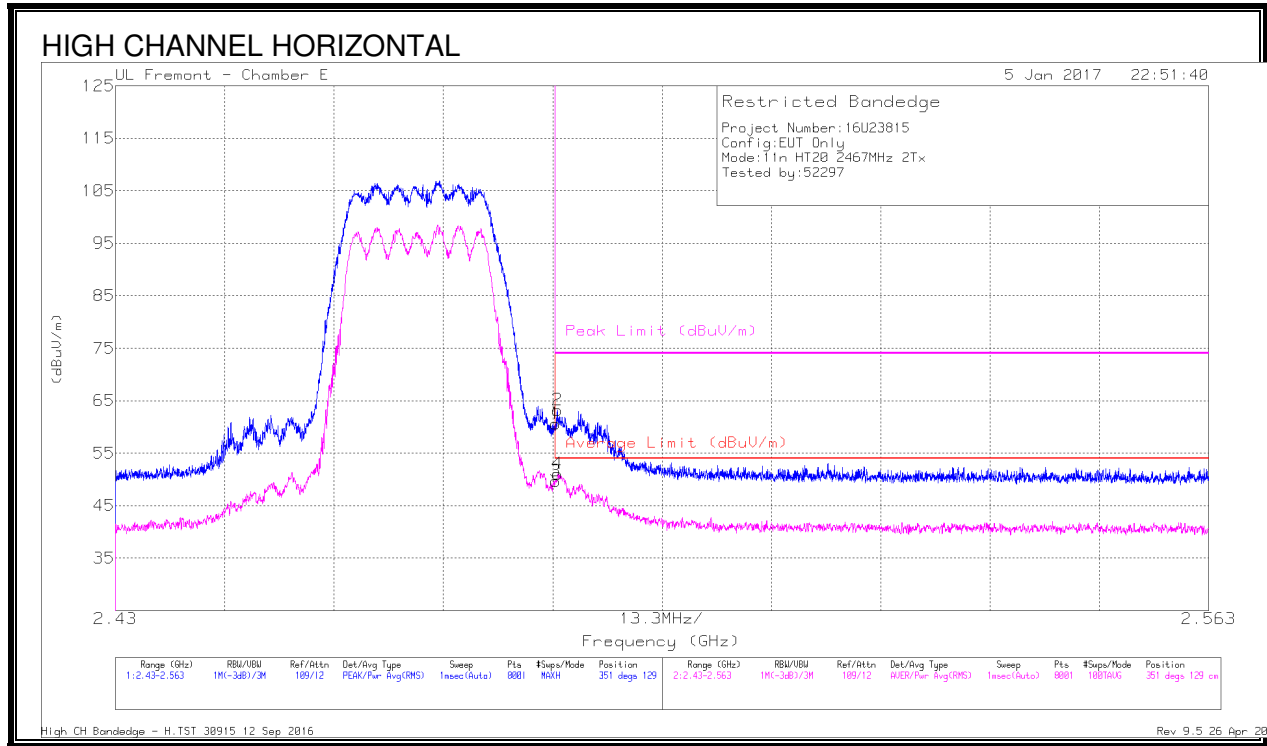
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cb/r/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	45.38	Pk	32.3	-19.7	57.98	-	-	74	-16.02	19	147	V
2	* 2.484	49.82	Pk	32.3	-19.7	62.42	-	-	74	-11.58	19	147	V
3	* 2.484	33.65	RMS	32.3	-19.7	46.25	54	-7.75	-	-	19	147	V
4	* 2.484	34.74	RMS	32.3	-19.7	47.34	54	-6.66	-	-	19	147	V

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

Pk - Peak detector

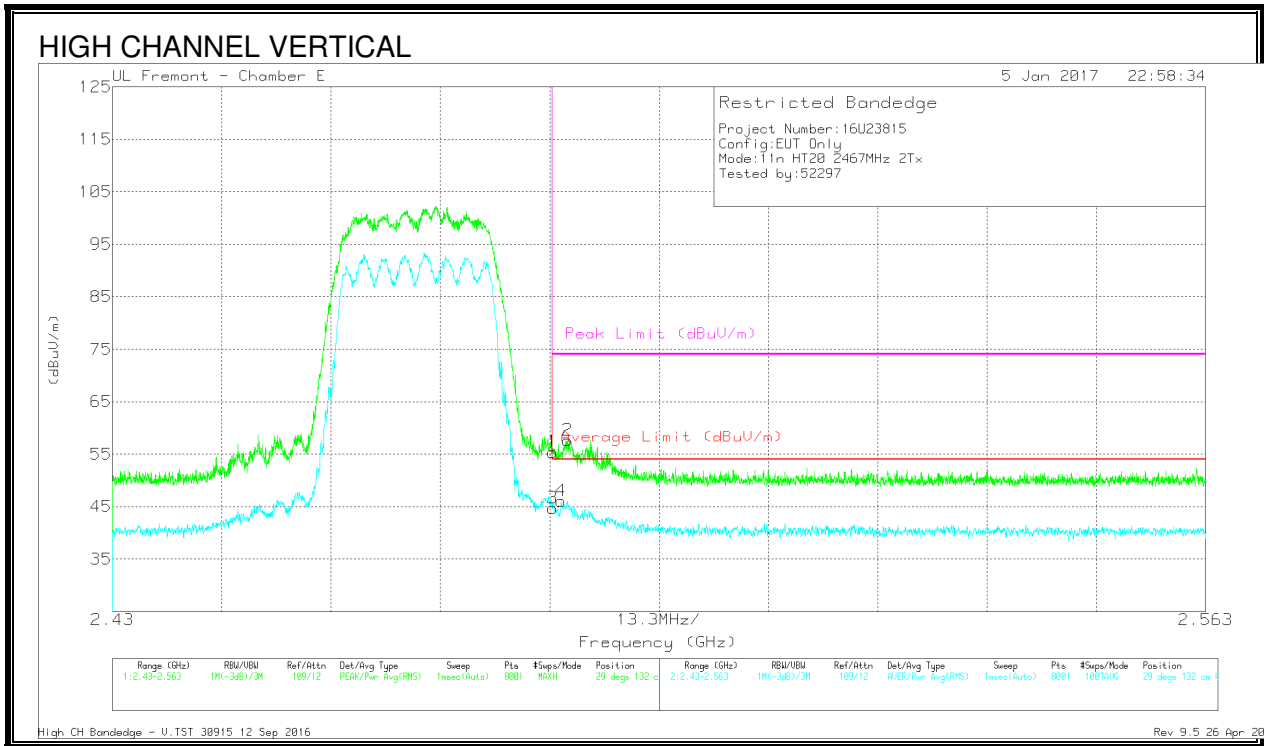
RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 12)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Fit r/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	47.95	Pk	32.3	-19.7	60.55	-	-	74	-13.45	351	129	H
2	* 2.484	50.58	Pk	32.3	-19.7	63.18	-	-	74	-10.82	351	129	H
3	* 2.484	37.09	RMS	32.3	-19.7	49.69	54	-4.31	-	-	351	129	H
4	* 2.484	38.38	RMS	32.3	-19.7	50.98	54	-3.02	-	-	351	129	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection



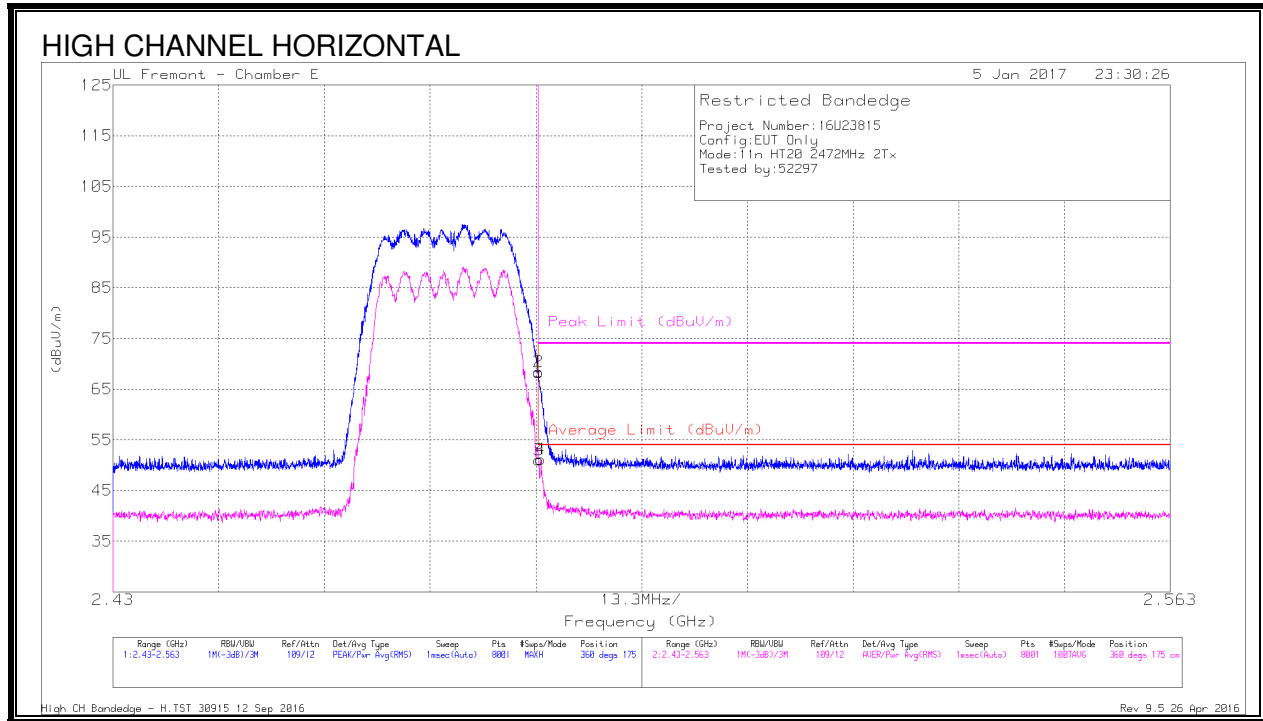
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cb/Filter/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.81	Pk	32.3	-19.7	55.41	-	-	74	-18.59	29	132	V
3	* 2.484	32.09	RMS	32.3	-19.7	44.69	54	-9.31	-	-	29	132	V
2	* 2.485	45.06	Pk	32.3	-19.7	57.66	-	-	74	-16.34	29	132	V
4	* 2.485	33.51	RMS	32.3	-19.7	46.11	54	-7.89	-	-	29	132	V

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

Pk - Peak detector

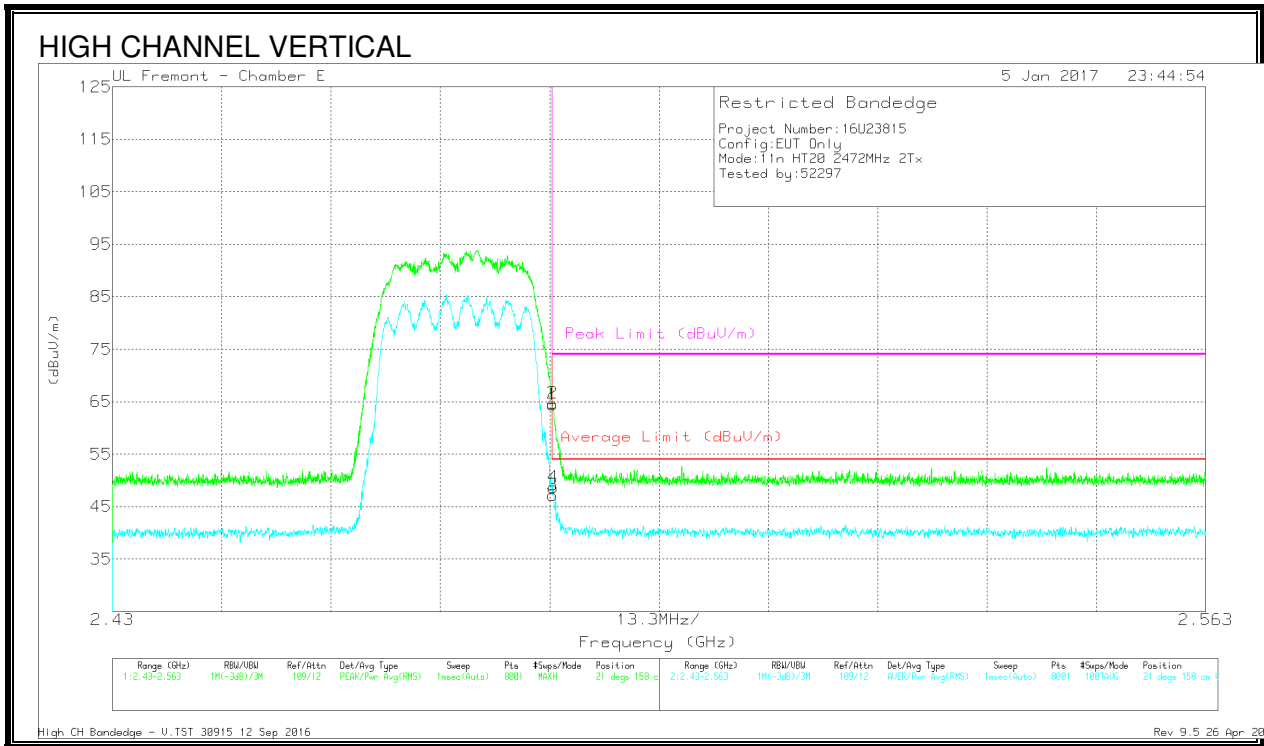
RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 13)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/FI tr/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	55.73	Pk	32.3	-19.7	68.33	-	-	74	-5.67	360	175	H
2	* 2.484	55.85	Pk	32.3	-19.7	68.45	-	-	74	-5.55	360	175	H
3	* 2.484	38.46	RMS	32.3	-19.7	51.06	54	-2.94	-	-	360	175	H
4	* 2.484	38.57	RMS	32.3	-19.7	51.17	54	-2.83	-	-	360	175	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection



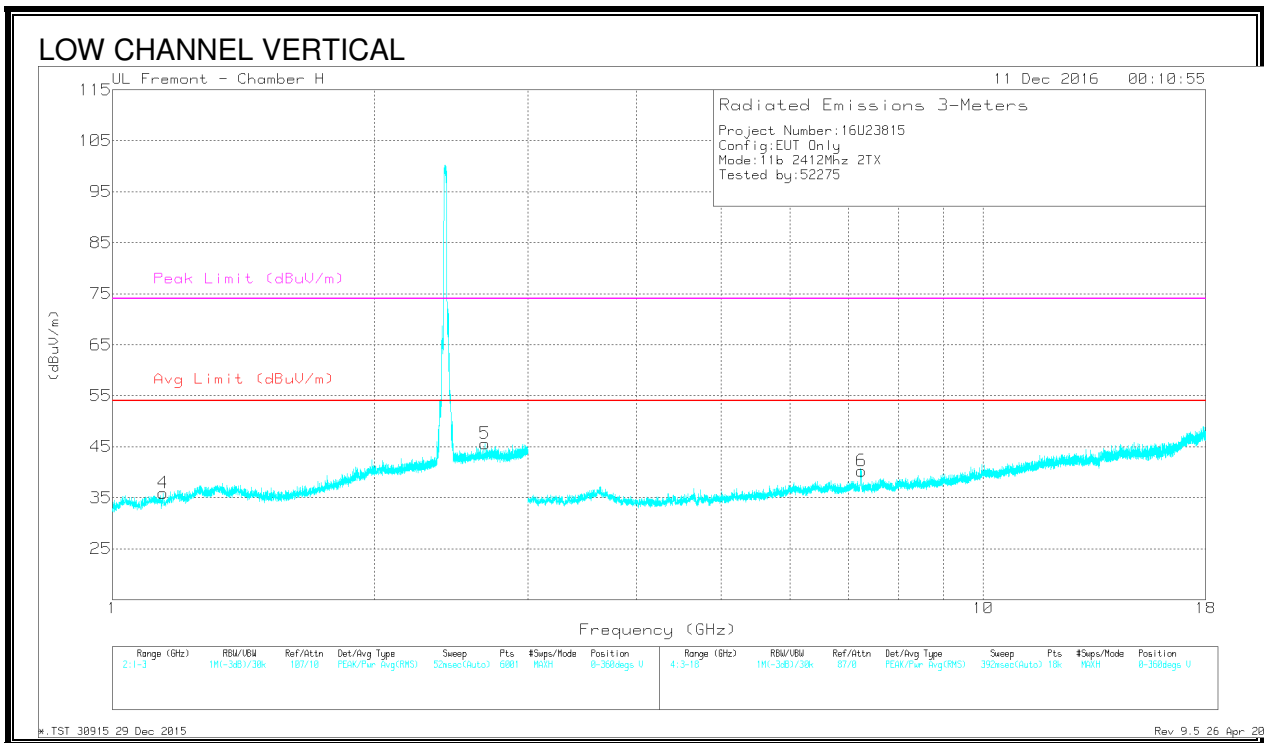
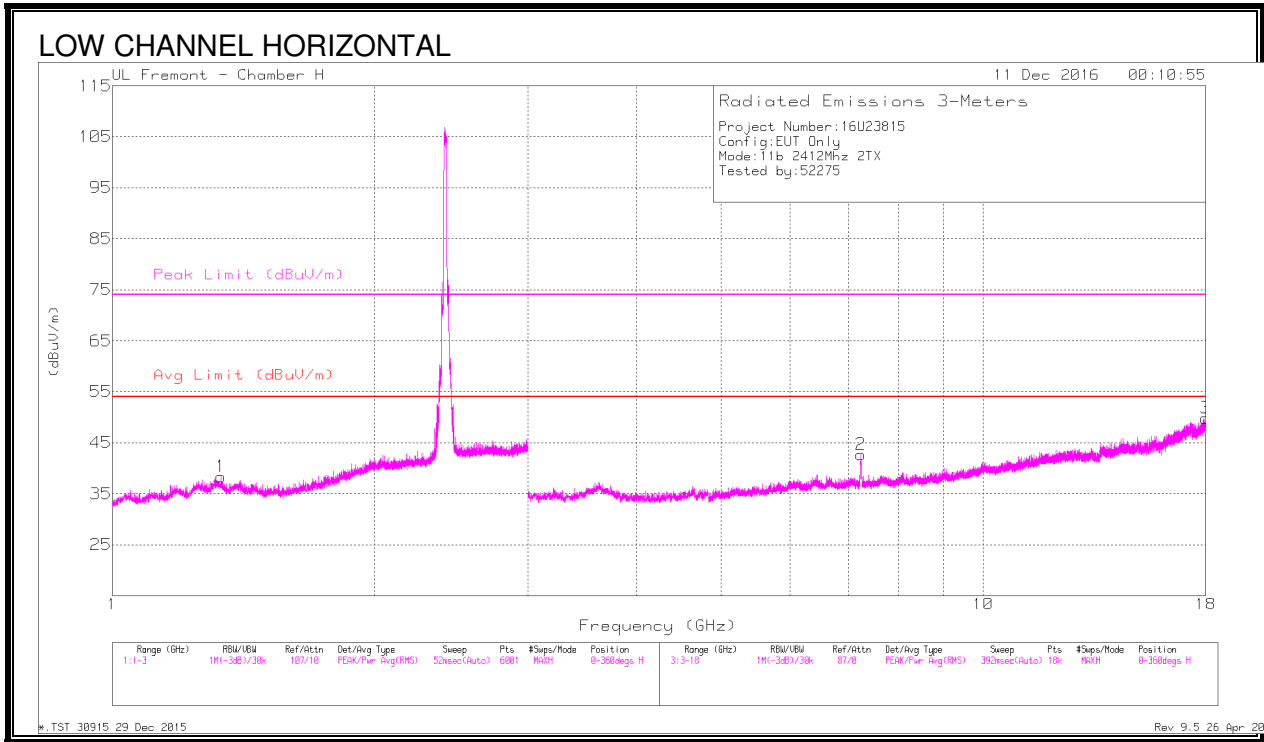
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cb/r/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	51.9	Pk	32.3	-19.7	64.5	-	-	74	-9.5	21	158	V
2	* 2.484	52.13	Pk	32.3	-19.7	64.73	-	-	74	-9.27	21	158	V
3	* 2.484	34.54	RMS	32.3	-19.7	47.14	54	-6.86	-	-	21	158	V
4	* 2.484	36.03	RMS	32.3	-19.7	48.63	54	-5.37	-	-	21	158	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)



Radiated Emissions

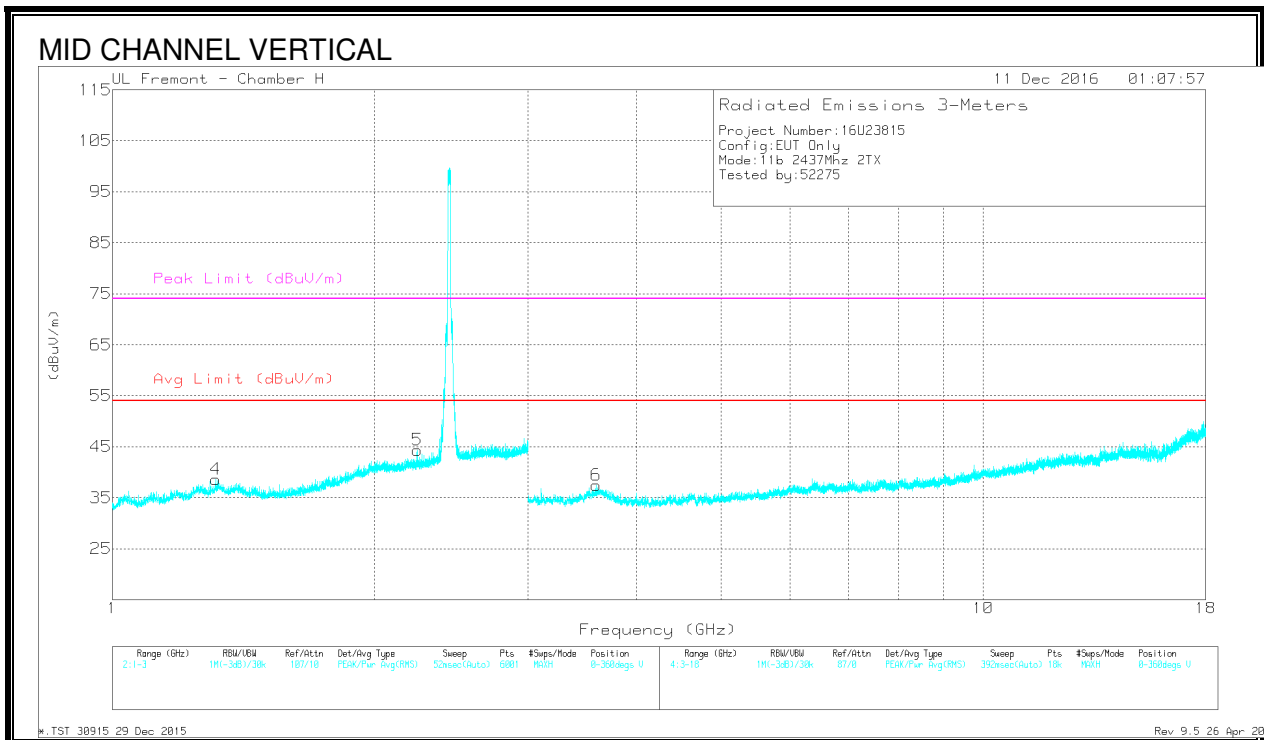
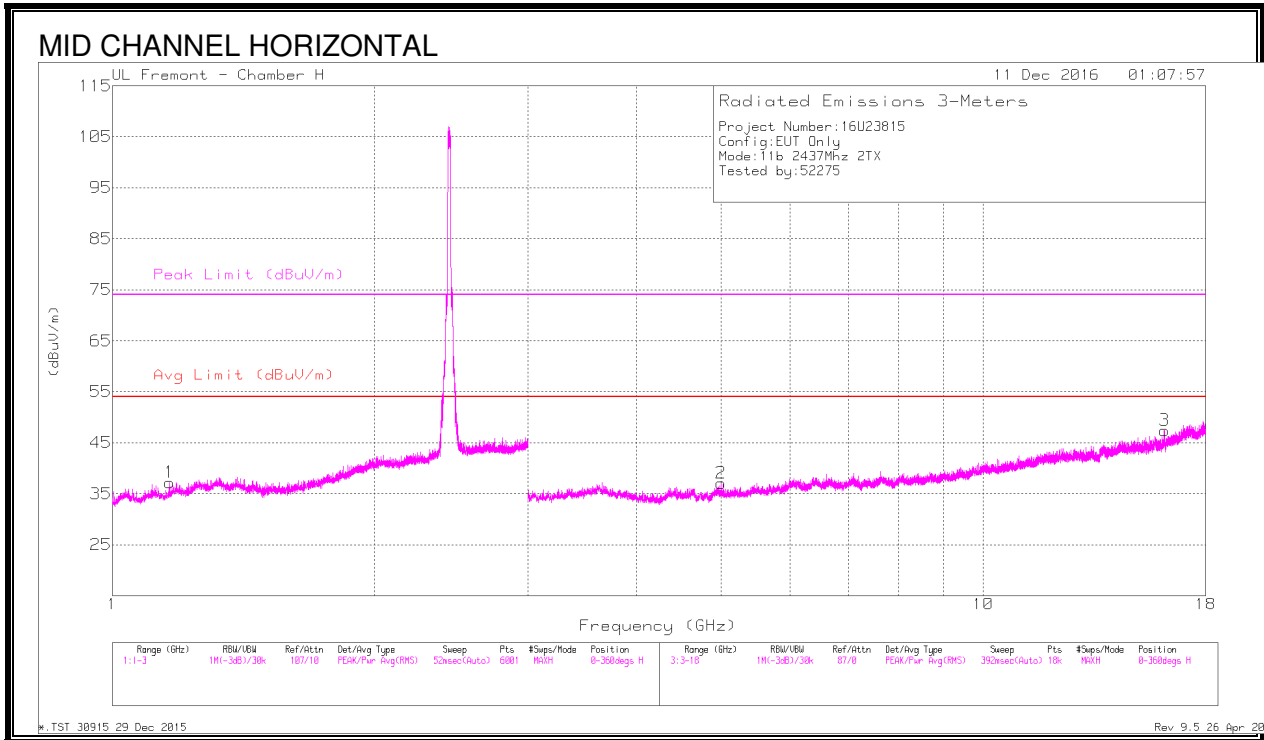
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.334	37.83	PK2	29.6	-22	45.43	-	-	74	-28.57	317	307	H
	* 1.332	23.82	MAv1	29.6	-22.1	31.32	54	-22.68	-	-	317	307	H
2	7.238	46.61	PK2	35.7	-31.7	50.61	-	-	-	-	273	193	H
3	* 17.974	35.39	PK2	41.9	-21.3	55.99	-	-	74	-18.01	262	367	H
	* 17.978	23.81	MAv1	41.9	-21.4	44.31	54	-9.69	-	-	262	367	H
4	* 1.144	37.07	PK2	28.2	-22.2	43.07	-	-	74	-30.93	278	164	V
	* 1.145	22.47	MAv1	28.2	-22.2	28.47	54	-25.53	-	-	278	164	V
5	* 2.68	39.23	PK2	32.5	-19.3	52.43	-	-	74	-21.57	258	260	V
	* 2.681	22.89	MAv1	32.5	-19.3	36.09	54	-17.91	-	-	258	260	V
6	7.247	43.37	PK2	35.7	-31.6	47.47	-	-	-	-	272	208	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL, CH 6)

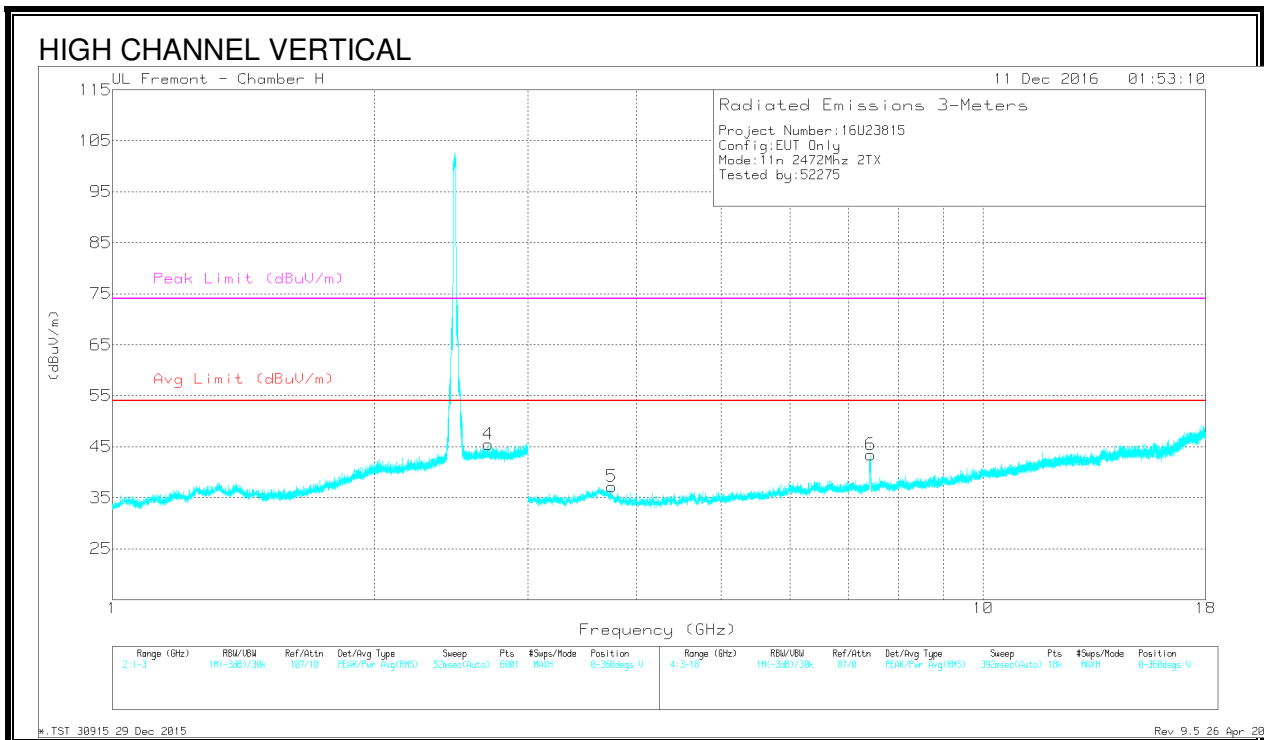
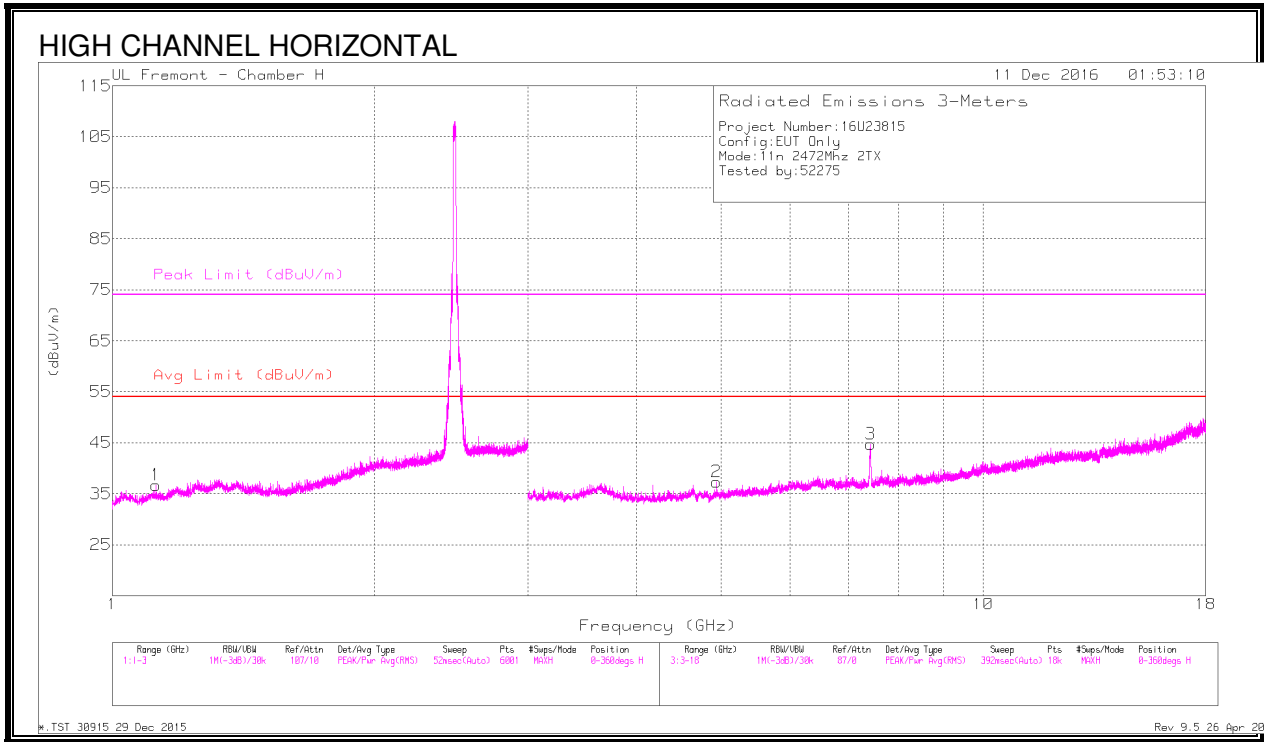


Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.165	38	PK2	28.4	-22.2	44.2	-	-	74	-29.8	179	172	H
	* 1.164	23.15	MAv1	28.4	-22.2	29.35	54	-24.65	-	-	179	172	H
2	* 5.002	43.65	PK2	34.1	-34.1	43.65	-	-	74	-30.35	107	146	H
	* 5.002	31.91	MAv1	34.1	-34.1	31.91	54	-22.09	-	-	107	146	H
3	* 16.133	36.64	PK2	40.5	-23.6	53.54	-	-	74	-20.46	15	299	H
	* 16.134	24.36	MAv1	40.5	-23.6	41.26	54	-12.74	-	-	15	299	H
4	* 1.317	38.44	PK2	29.7	-22.1	46.04	-	-	74	-27.96	179	204	V
	* 1.317	23.55	MAv1	29.7	-22.1	31.15	54	-22.85	-	-	179	204	V
5	* 2.237	38.08	PK2	31.6	-19.9	49.78	-	-	74	-24.22	219	170	V
	* 2.24	22.83	MAv1	31.6	-19.8	34.63	54	-19.37	-	-	219	170	V
6	* 3.592	44.17	PK2	34.9	-35.4	43.67	-	-	74	-30.33	64	109	V
	* 3.593	32.94	MAv1	34.9	-35.4	32.44	54	-21.56	-	-	64	109	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK2 - KDB558074 Method: Maximum Peak
 MAv1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL, CH 13)



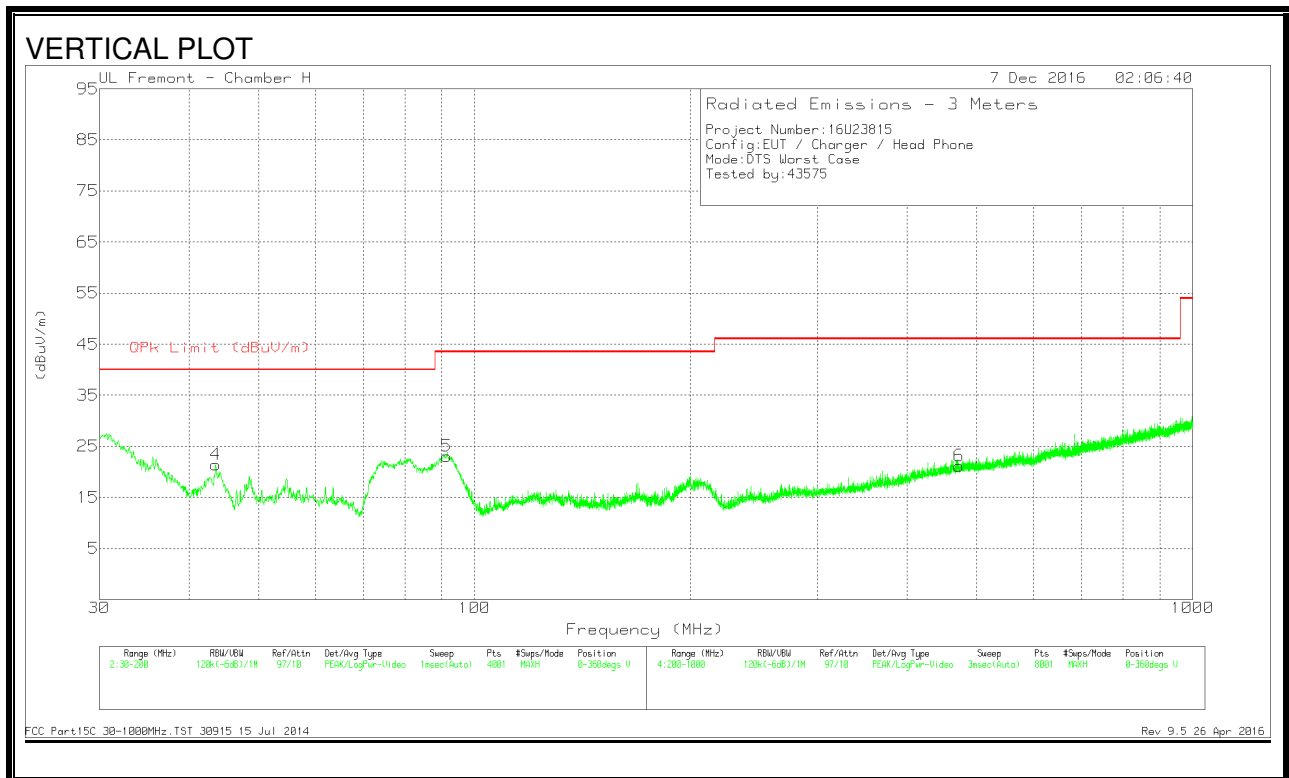
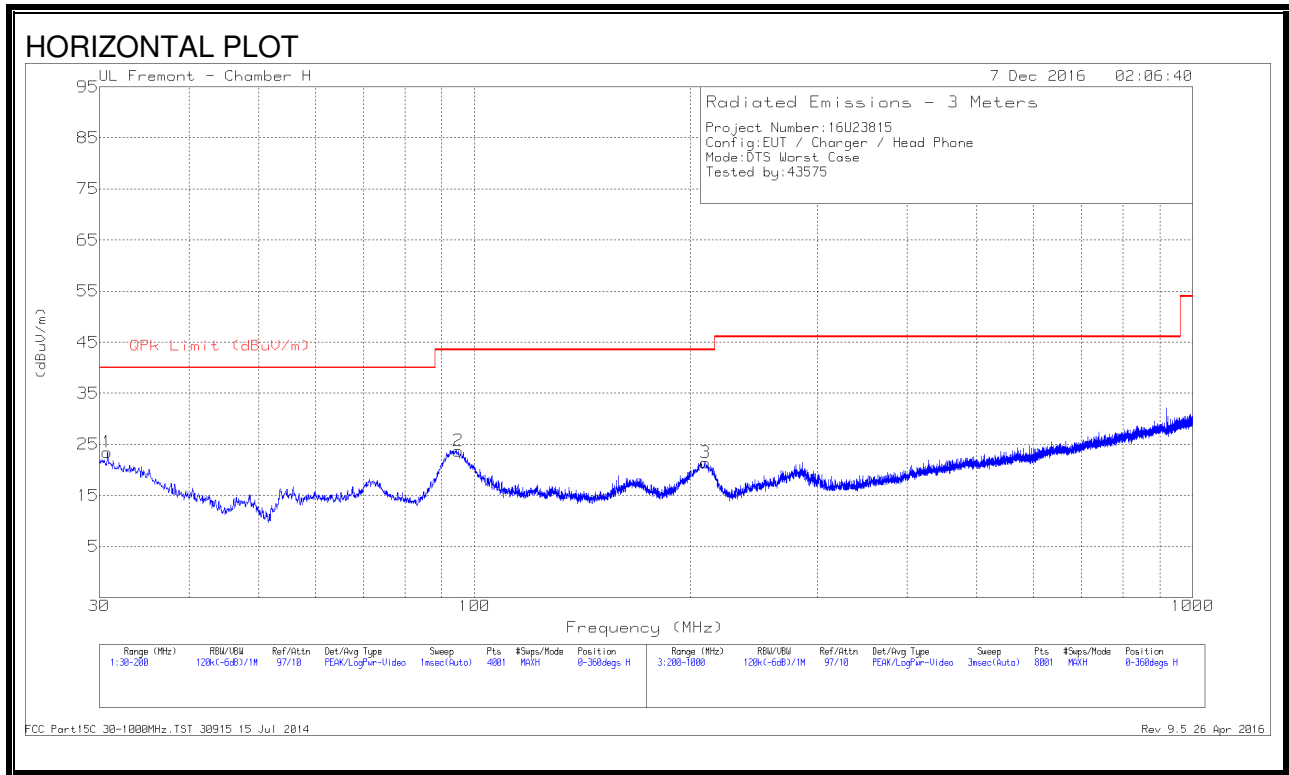
Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.123	37.3	PK2	28.1	-22.4	43	-	-	74	-31	128	235	H
	* 1.123	23.59	MAv1	28.1	-22.4	29.29	54	-24.71	-	-	128	235	H
2	* 4.946	42.86	PK2	34	-34.4	42.46	-	-	74	-31.54	270	207	H
	* 4.943	31.68	MAv1	34	-34.3	31.38	54	-22.62	-	-	270	207	H
3	* 7.422	46.75	PK2	35.7	-31.2	51.25	-	-	74	-22.75	276	204	H
	* 7.422	34.64	MAv1	35.7	-31.2	39.14	54	-14.86	-	-	276	204	H
4	* 2.706	38.82	PK2	32.6	-19.4	52.02	-	-	74	-21.98	165	311	V
	* 2.703	22.67	MAv1	32.6	-19.3	35.97	54	-18.03	-	-	165	311	V
5	* 3.745	44.13	PK2	34.5	-35.7	42.93	-	-	74	-31.07	140	260	V
	* 3.746	32.85	MAv1	34.5	-35.7	31.65	54	-22.35	-	-	140	260	V
6	* 7.42	47.86	PK2	35.7	-31.2	52.36	-	-	74	-21.64	327	398	V
	* 7.421	34.58	MAv1	35.7	-31.2	39.08	54	-14.92	-	-	327	398	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK2 - KDB558074 Method: Maximum Peak
 MAv1 - KDB558074 Option 1 Maximum RMS Average

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 T407 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.8075	29.99	Pk	24.7	-31.3	23.39	40	-16.61	0-360	98	H
4	43.6	37.33	Pk	15.2	-31.1	21.43	40	-18.57	0-360	100	V
5	91.455	41.66	Pk	12	-30.6	23.06	43.52	-20.46	0-360	100	V
2	94.94	41.54	Pk	12.8	-30.6	23.74	43.52	-19.78	0-360	299	H
3	209.5	36.84	Pk	14.3	-29.7	21.44	43.52	-22.08	0-360	199	H
6	472.5	28.14	Pk	21.3	-28.3	21.14	46.02	-24.88	0-360	301	V

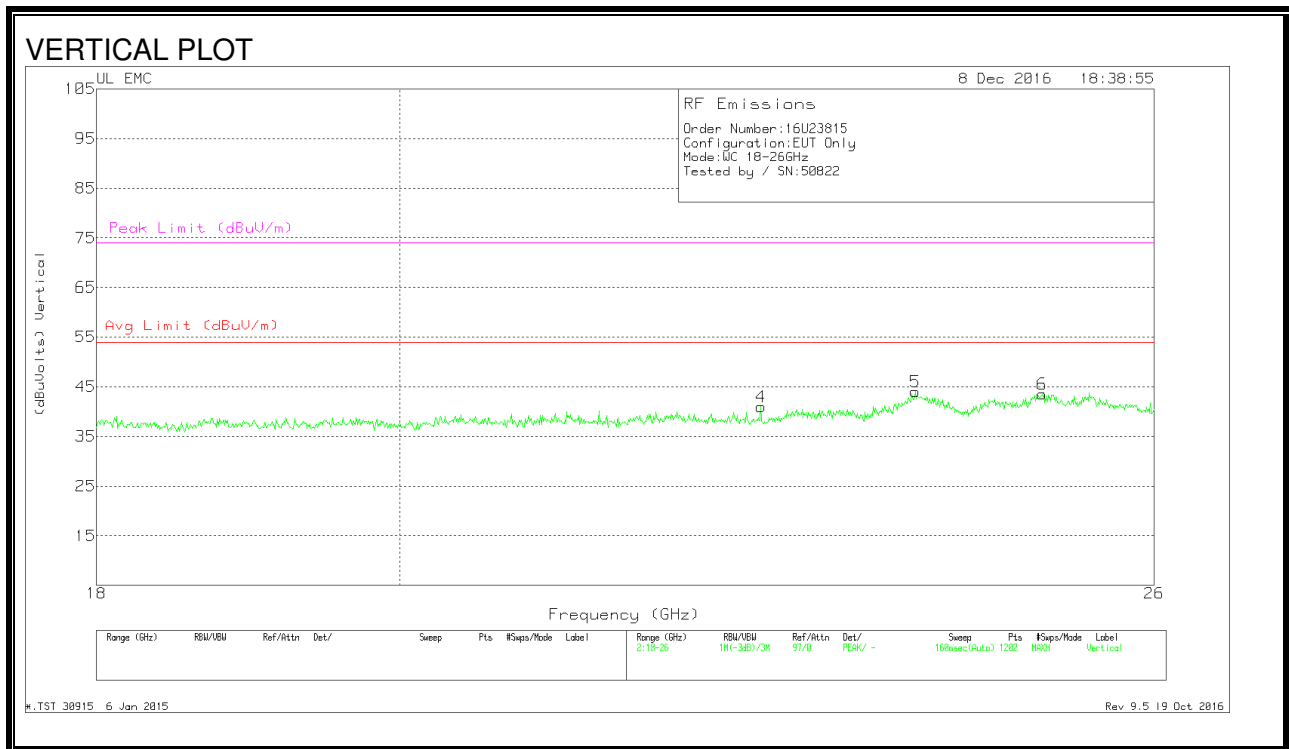
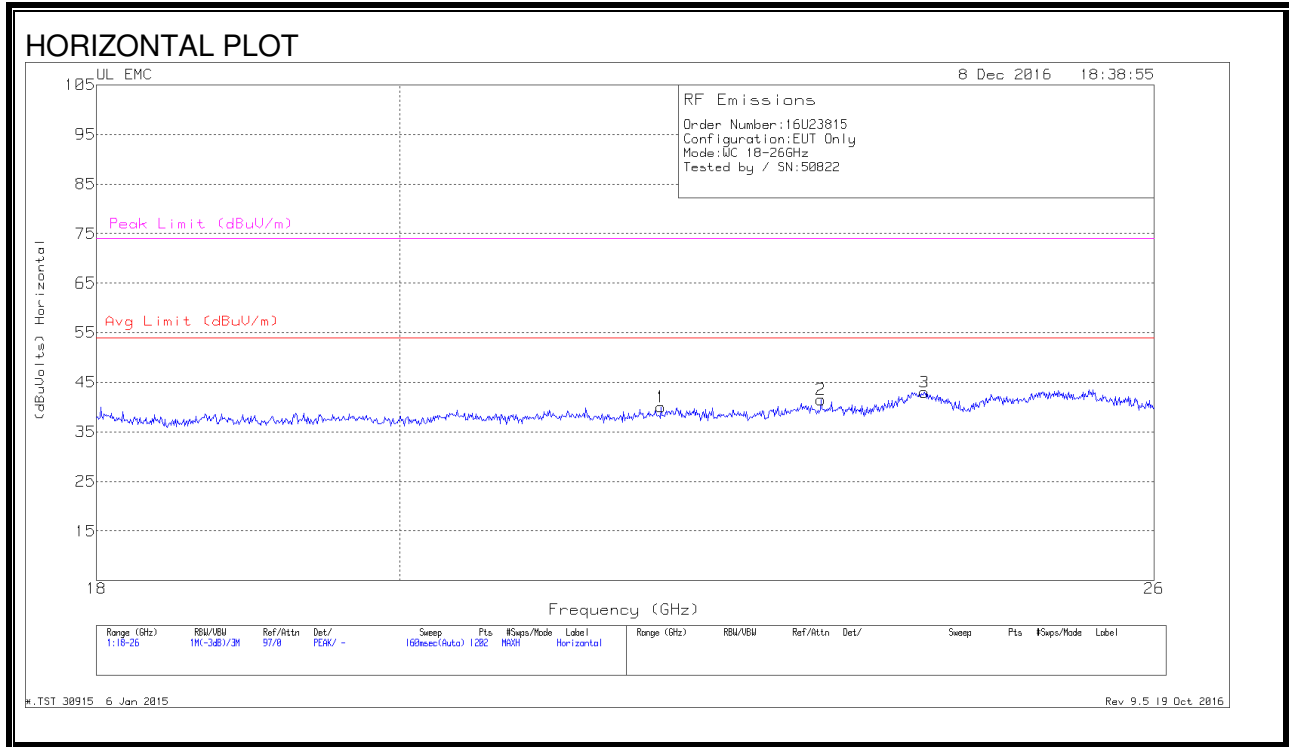
Pk - Peak detector

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

Rev 9.5 26 Apr 2016

9.4. WORST-CASE 18 to 26 GHz

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



DATA

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	21.903	41.4	Pk	33.4	-25.3	-9.5	40	54	-14	74	-34
2	23.156	42.4	Pk	33.5	-24.9	-9.5	41.5	54	-12.5	74	-32.5
3	24.002	42.9	Pk	34	-24.4	-9.5	43	54	-11	74	-31
4	22.676	42.2	Pk	33.4	-25.1	-9.5	41	54	-13	74	-33
5	23.928	43.5	Pk	34	-24	-9.5	44	54	-10	74	-30
6	25.007	43.4	Pk	34.2	-24.6	-9.5	43.5	54	-10.5	74	-30.5

Pk - Peak detector

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

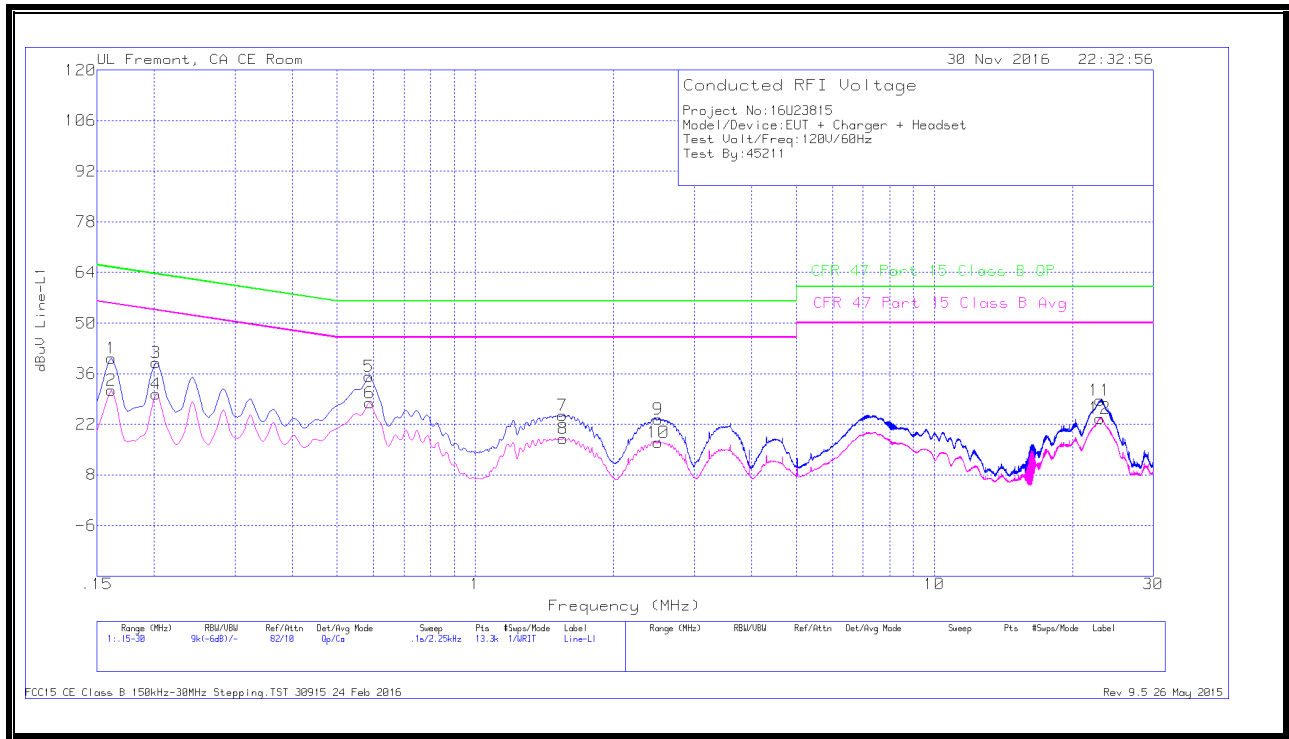
The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

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

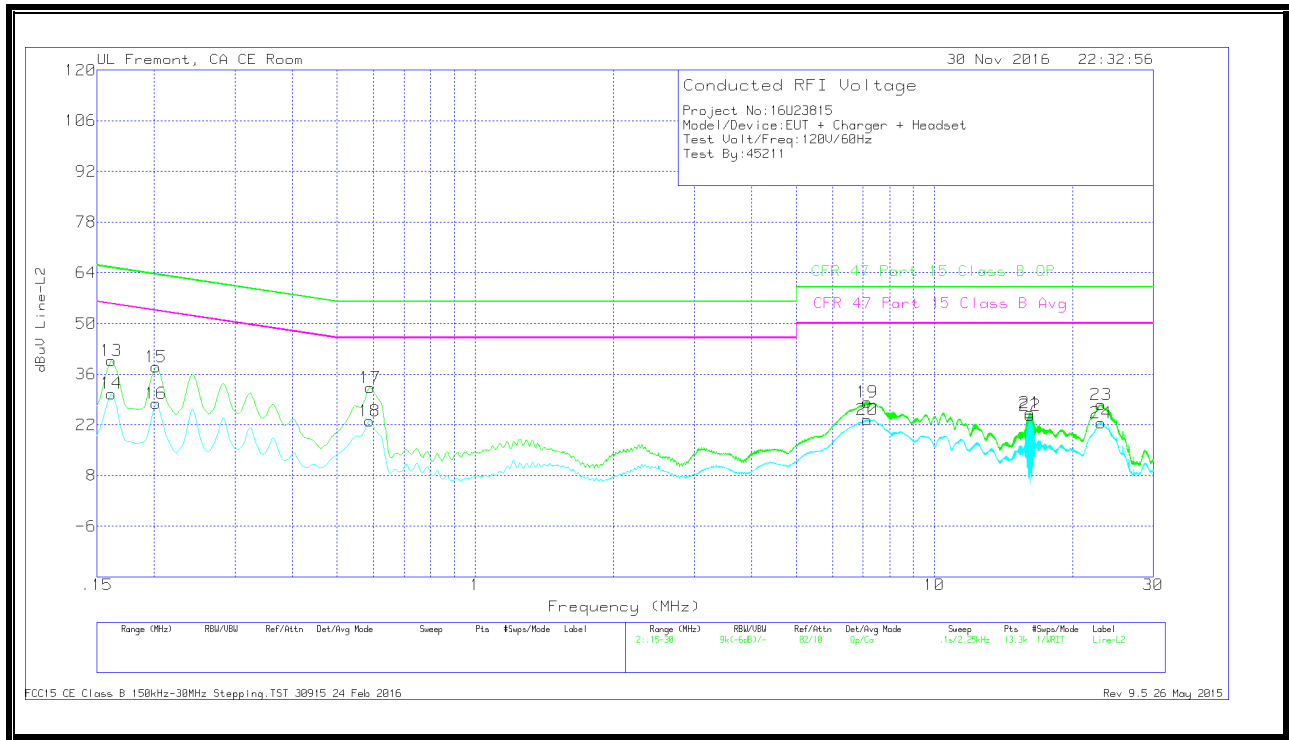


WORST EMISSIONS

Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables 1&3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.16125	30.23	Qp	0	0	10.1	40.33	65.4	-25.07	-	-
2	.16125	21.29	Ca	0	0	10.1	31.39	-	-	55.4	-24.01
3	.20175	28.99	Qp	0	0	10.1	39.09	63.54	-24.45	-	-
4	.20175	20.3	Ca	0	0	10.1	30.4	-	-	53.54	-23.14
5	.5865	25.15	Qp	0	0	10.1	35.25	56	-20.75	-	-
6	.58875	17.88	Ca	0	0	10.1	27.98	-	-	46	-18.02
7	1.5495	14.27	Qp	0	.1	10.1	24.47	56	-31.53	-	-
8	1.55625	7.79	Ca	0	.1	10.1	17.99	-	-	46	-28.01
9	2.499	13.22	Qp	0	.1	10.1	23.42	56	-32.58	-	-
10	2.50575	6.81	Ca	0	.1	10.1	17.01	-	-	46	-28.99
11	22.9448	17.86	Qp	.1	.2	10.4	28.56	60	-31.44	-	-
12	22.938	12.96	Ca	.1	.2	10.4	23.66	-	-	50	-26.34

Qp - Quasi-Peak detector
 Ca - CISPR average detection

LINE 2 RESULTS



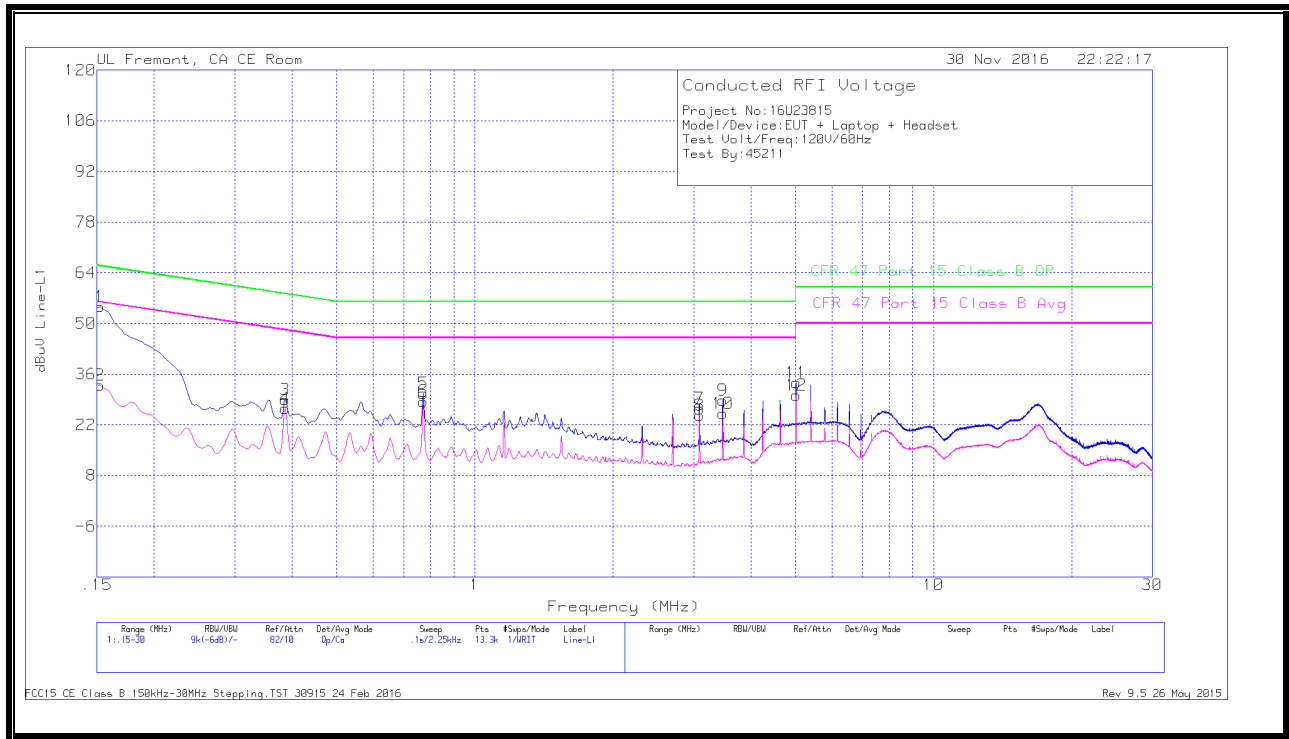
WORST EMISSIONS

Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables 2&3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
13	.16125	29.61	Qp	0	0	10.1	39.71	65.4	-25.69	-	-
14	.16125	20.52	Ca	0	0	10.1	30.62	-	-	55.4	-24.78
15	.20175	27.95	Qp	0	0	10.1	38.05	63.54	-25.49	-	-
16	.20175	17.82	Ca	0	0	10.1	27.92	-	-	53.54	-25.62
17	.591	22.21	Qp	0	0	10.1	32.31	56	-23.69	-	-
18	.58875	13	Ca	0	0	10.1	23.1	-	-	46	-22.9
19	7.1385	18.02	Qp	0	.1	10.2	28.32	60	-31.68	-	-
20	7.14525	13.15	Ca	0	.1	10.2	23.45	-	-	50	-26.55
21	16.1633	14.78	Qp	0	.2	10.3	25.28	60	-34.72	-	-
22	16.1633	14.05	Ca	0	.2	10.3	24.55	-	-	50	-25.45
23	23.073	16.88	Qp	.1	.2	10.4	27.58	60	-32.42	-	-
24	23.0933	11.8	Ca	.1	.2	10.4	22.5	-	-	50	-27.5

Qp - Quasi-Peak detector
 Ca - CISPR average detection

10.2. EUT POWERED BY HOST PC VIA USB CABLE

LINE 1 RESULTS

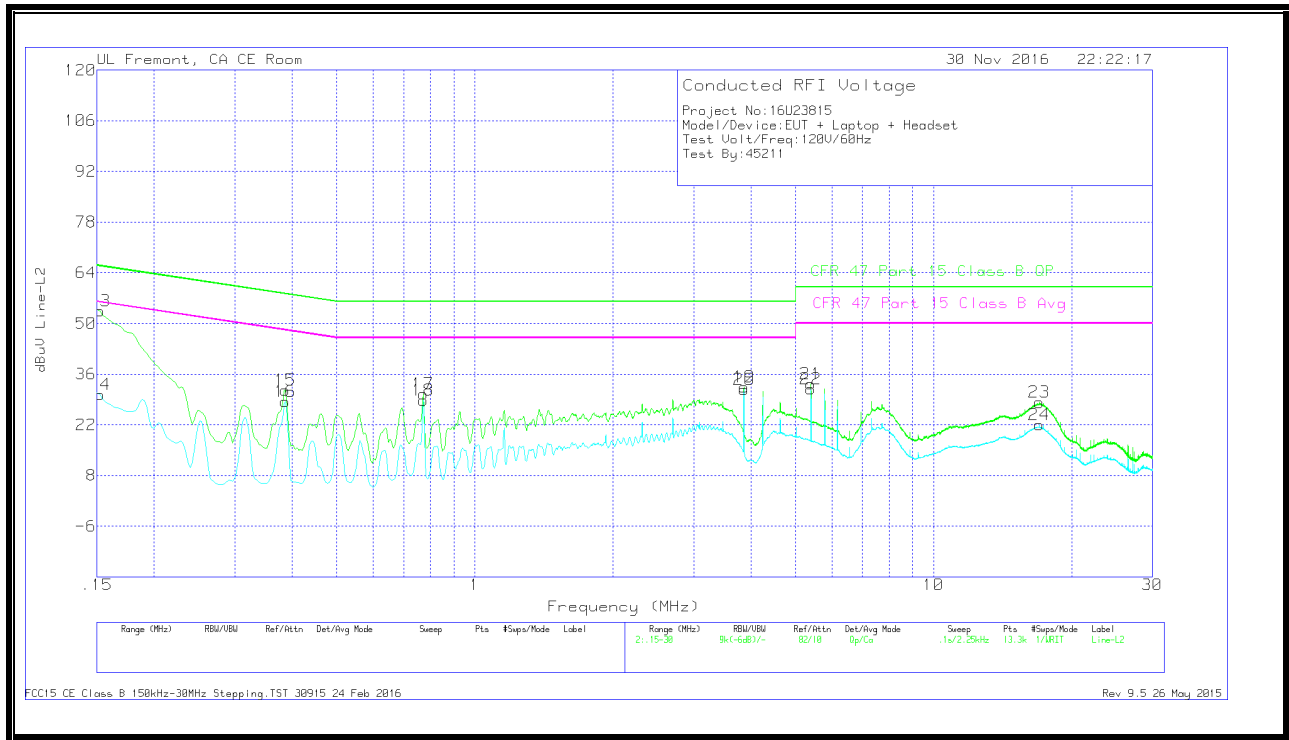


WORST EMISSIONS

Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables 1&3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.15225	44.49	Qp	.1	0	10.1	54.69	65.88	-11.19	-	-
2	.15225	22.78	Ca	.1	0	10.1	32.98	-	-	55.88	-22.9
3	.38625	18.86	Qp	0	0	10.1	28.96	58.14	-29.18	-	-
4	.38625	16.37	Ca	0	0	10.1	26.47	-	-	48.14	-21.67
5	.771	20.6	Qp	0	0	10.1	30.7	56	-25.3	-	-
6	.771	18.43	Ca	0	0	10.1	28.53	-	-	46	-17.47
7	3.0885	16.25	Qp	0	.1	10.1	26.45	56	-29.55	-	-
8	3.0885	14.49	Ca	0	.1	10.1	24.69	-	-	46	-21.31
9	3.471	18.56	Qp	0	.1	10.1	28.76	56	-27.24	-	-
10	3.471	14.94	Ca	0	.1	10.1	25.14	-	-	46	-20.86
11	5.0145	23.52	Qp	0	.1	10.1	33.72	60	-26.28	-	-
12	5.0145	20.06	Ca	0	.1	10.1	30.26	-	-	50	-19.74

Qp - Quasi-Peak detector
 Ca - CISPR average detection

LINE 2 RESULTS



WORST EMISSIONS

Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables 2&3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
13	.15225	43.33	Qp	0	0	10.1	53.43	65.88	-12.45	-	-
14	.15225	20.26	Ca	0	0	10.1	30.36	-	-	55.88	-25.52
15	.38625	21.42	Qp	0	0	10.1	31.52	58.14	-26.62	-	-
16	.38625	18.37	Ca	0	0	10.1	28.47	-	-	48.14	-19.67
17	.771	20.41	Qp	0	0	10.1	30.51	56	-25.49	-	-
18	.771	18.64	Ca	0	0	10.1	28.74	-	-	46	-17.26
19	3.86025	22.31	Qp	0	.1	10.1	32.51	56	-23.49	-	-
20	3.86025	21.57	Ca	0	.1	10.1	31.77	-	-	46	-14.23
21	5.40375	23.07	Qp	0	.1	10.1	33.27	60	-26.73	-	-
22	5.40375	21.75	Ca	0	.1	10.1	31.95	-	-	50	-18.05
23	16.9845	17.69	Qp	0	.2	10.3	28.19	60	-31.81	-	-
24	16.9845	11.48	Ca	0	.2	10.3	21.98	-	-	50	-28.02

Qp - Quasi-Peak detector
 Ca - CISPR average detection