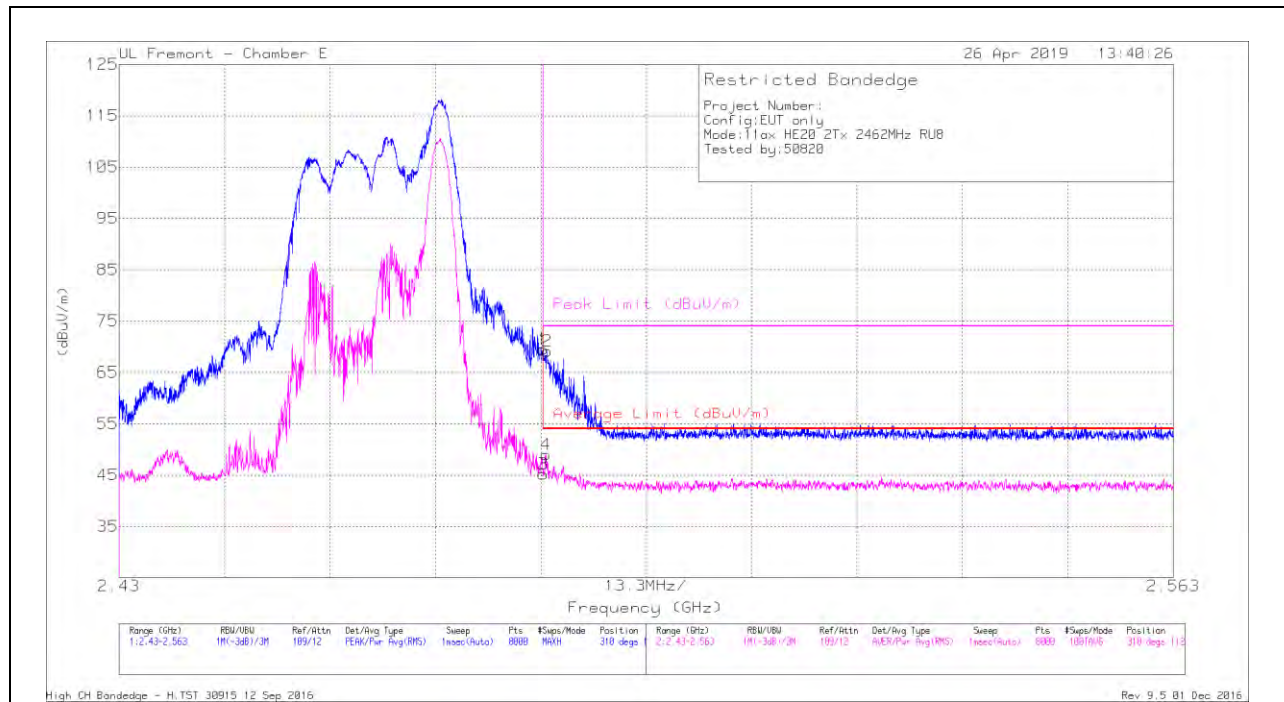


BANDEDGE (HIGH CHANNEL, CH 11)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	54.78	Pk	32.8	-18.1	69.48	-	-	74	-4.52	310	112	H
2	* 2.484	54.44	Pk	32.8	-18.1	69.14	-	-	74	-4.86	310	112	H
3	* 2.484	30.48	RMS	32.8	-18.1	45.18	54	-8.82	-	-	310	112	H
4	* 2.484	34.29	RMS	32.8	-18.1	48.99	54	-5.01	-	-	310	112	H

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

Pk - Peak detector

RMS - RMS detection

UL Fremont - Chamber E

26 Apr 2019 13:47:33

Restricted Bandedge

Project Number:
Config: EUT only
Mode: T1a: HE20 2T x 2462MHz RUB
Tested by: 50820

(dBuV/m)

Peak Limit (dBuV/m)

Average Limit (dBuV/m)

13.3MHz/

Frequency (GHz)

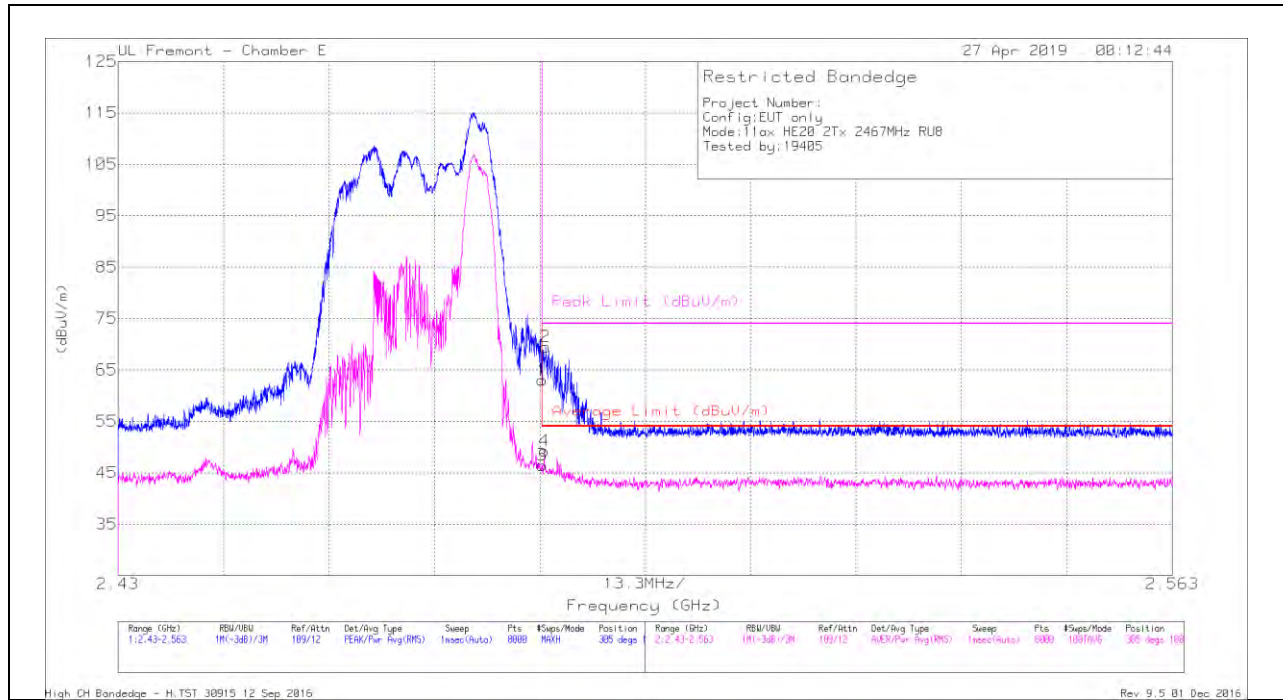
Range (GHz)	RBU/RBU	Ref/Att	Det/Avg Type	Sweep	Pts	#Spts/Mode	Position	Range (GHz)	RBU/RBU	Ref/Att	Det/Avg Type	Sweep	Pts	#Spts/Mode	Position
1.2-4.3 2.563	100-30000	100/12	PEAK/Avg	10000	8000	10000	270 degs	2.2-4.3 2.563	100-30000	100/12	PEAK/Avg	10000	8000	10000	270 degs

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	51.68	Pk	32.8	-18.1	66.38	-	-	74	-7.62	270	373	V
2	* 2.484	52.18	Pk	32.8	-18.1	66.88	-	-	74	-7.12	270	373	V
3	* 2.484	30.76	RMS	32.8	-18.1	45.46	54	-8.54	-	-	270	373	V
4	* 2.484	33.16	RMS	32.8	-18.1	47.86	54	-6.14	-	-	270	373	V

RMS - RMS detection

BANEDGE (HIGH CHANNEL, CH 12)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	48.31	Pk	32.8	-18.1	63.01	-	-	74	-10.99	305	108	H
2	* 2.484	54.76	Pk	32.8	-18.1	69.46	-	-	74	-4.54	305	108	H
3	* 2.484	31.78	RMS	32.8	-18.1	46.48	54	-7.52	-	-	305	108	H
4	* 2.484	34.51	RMS	32.8	-18.1	49.21	54	-4.79	-	-	305	108	H

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

Pk - Peak detector

RMS - RMS detection

UL Fremont - Chamber E

27 Apr 2019 08:19:15

Restricted Bandedge

Project Number:
Config: EUT only
Mode: T1a: HE20 2T x 2467MHz RUB
Tested by: 19405

Peak Limit (dBUV/m)

Average Limit (dBUV/m)

Frequency (GHz)

Range (GHz)	RSL/UBU	Ref/AttN	Det/Avg Type	Sweep	Pts	#Sps/Mode	Position	Range (GHz)	RSL/UBU	Ref/AttN	Det/Avg Type	Sweep	Pts	#Sps/Mode	Position
1.243 - 2.563	100 - 300 / 30	100 / 12	Peak / Avg (RMS)	Max (Auto)	8000	8000	20 deg	2.243 - 2.563	100 - 300 / 30	100 / 12	Peak / Avg (RMS)	Max (Auto)	8000	8000	20 deg 10

High CH Bandedge - U.TST 30915 12 Sep 2016

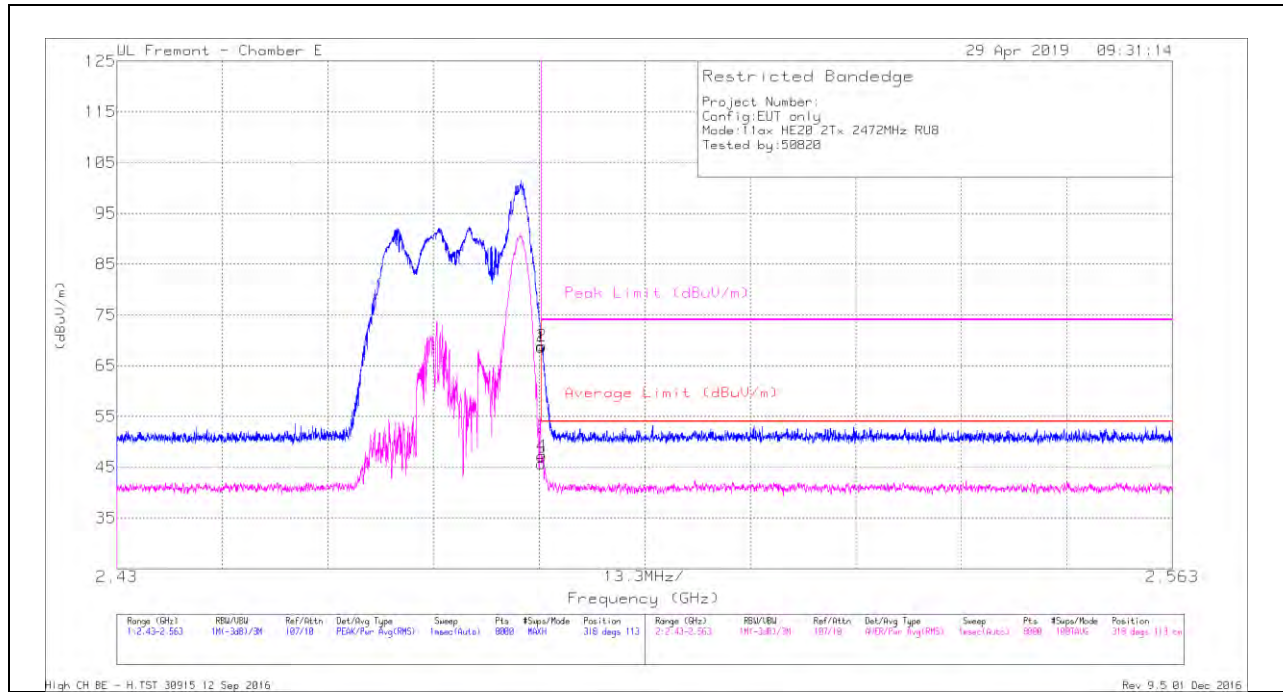
Rev 9.5 01 Dec 2016

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	50.43	Pk	32.8	-18.1	65.13	-	-	74	-8.87	295	376	V
2	* 2.484	49.15	Pk	32.8	-18.1	63.85	-	-	74	-10.15	295	376	V
3	* 2.484	29.55	RMS	32.8	-18.1	44.25	54	-9.75	-	-	295	376	V
4	* 2.485	30.2	RMS	32.8	-18.2	44.8	54	-9.2	-	-	295	376	V

Pk - Peak detector
RMS - RMS detection

BANEDGE (HIGH CHANNEL, CH 13)

HORIZONTAL RESULT



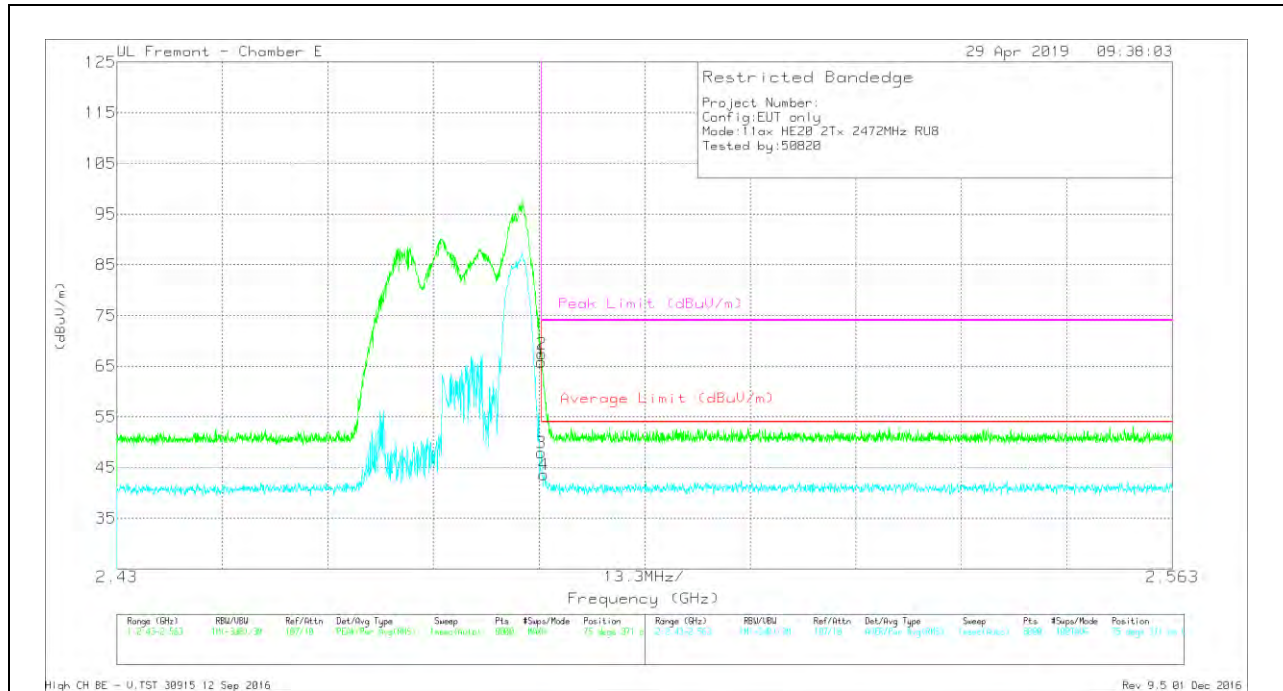
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	62.22	Pk	32.8	-26.3	68.72	-	-	74	-5.28	318	113	H
2	* 2.484	62.44	Pk	32.8	-26.3	68.94	-	-	74	-5.06	318	113	H
3	* 2.484	39.18	RMS	32.8	-26.3	45.68	54	-8.32	-	-	318	113	H
4	* 2.484	40.7	RMS	32.8	-26.3	47.2	54	-6.8	-	-	318	113	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/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	59.34	Pk	32.8	-26.3	65.84	-	-	74	-8.16	75	371	V
2	* 2.484	60.98	Pk	32.8	-26.3	67.48	-	-	74	-6.52	75	371	V
3	* 2.484	41.41	RMS	32.8	-26.3	47.91	54	-6.09	-	-	75	371	V
4	* 2.484	37.04	RMS	32.8	-26.3	43.54	54	-10.46	-	-	75	371	V

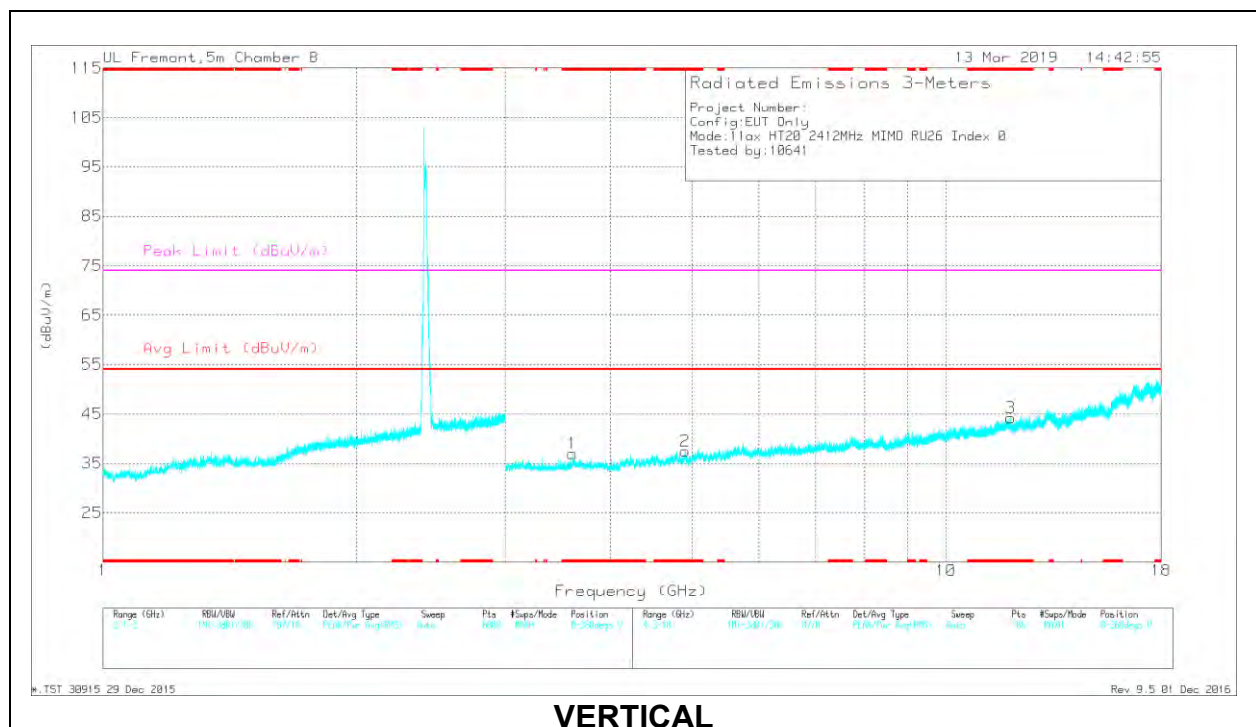
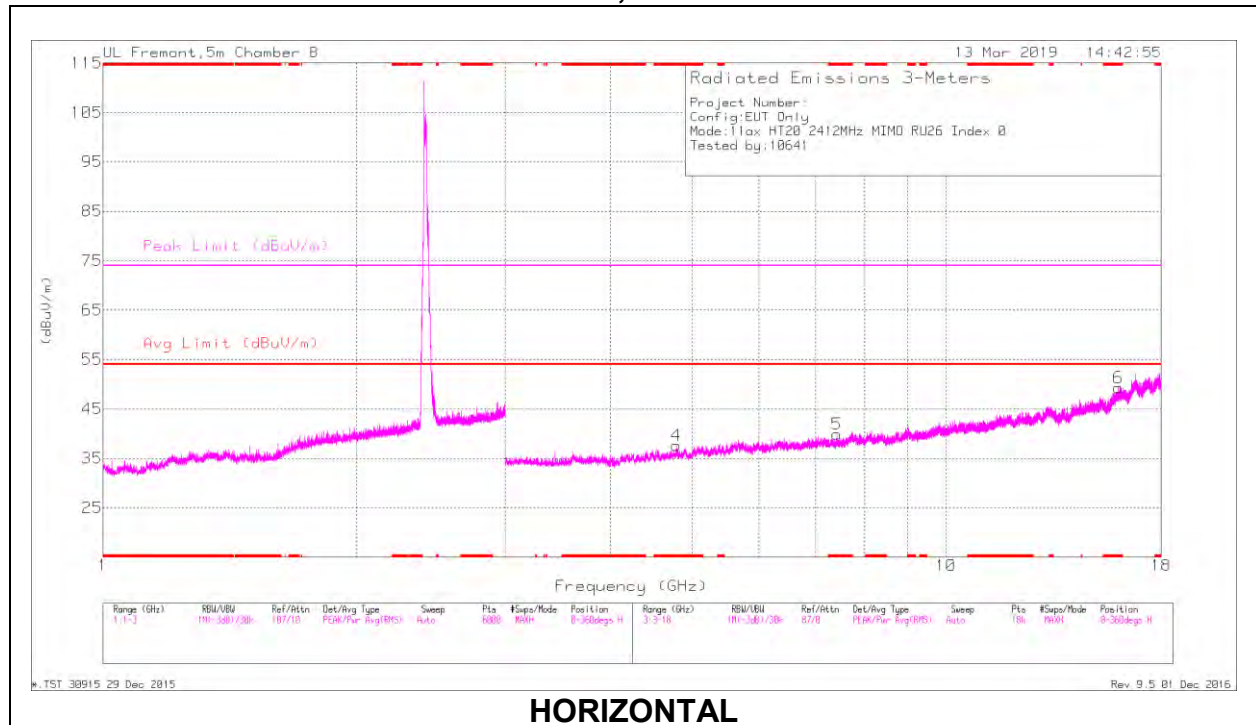
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, CH 1 RESULTS



RADIATED EMISSIONS

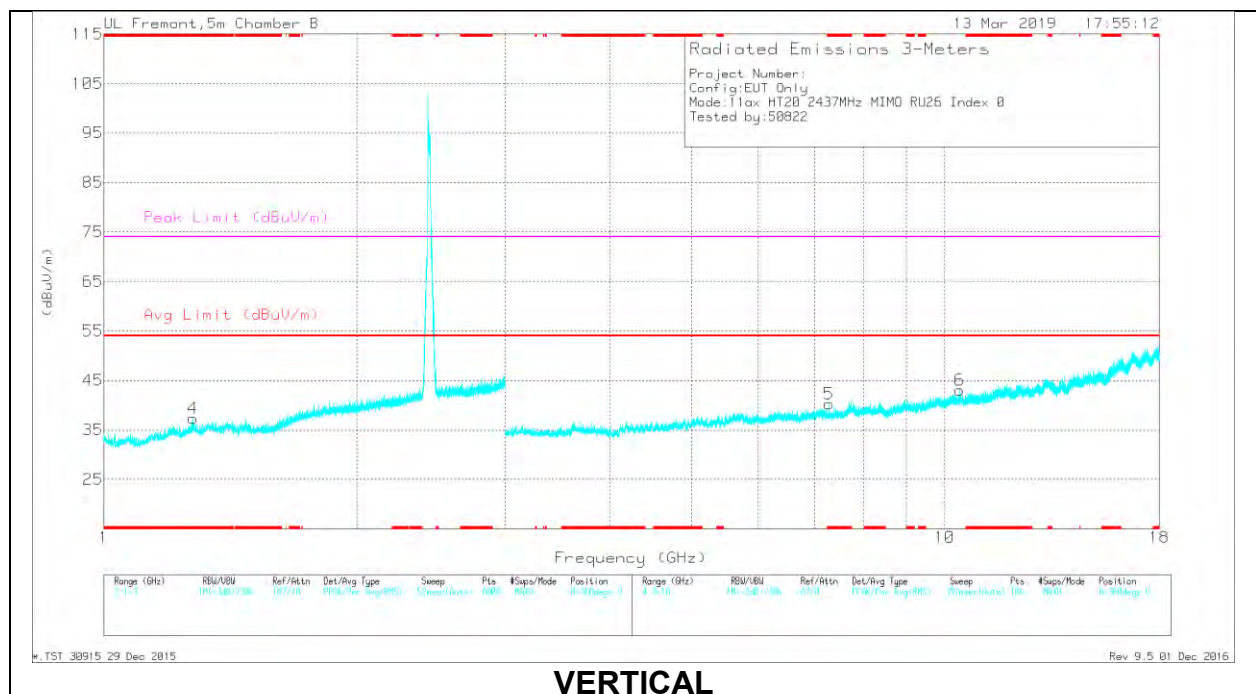
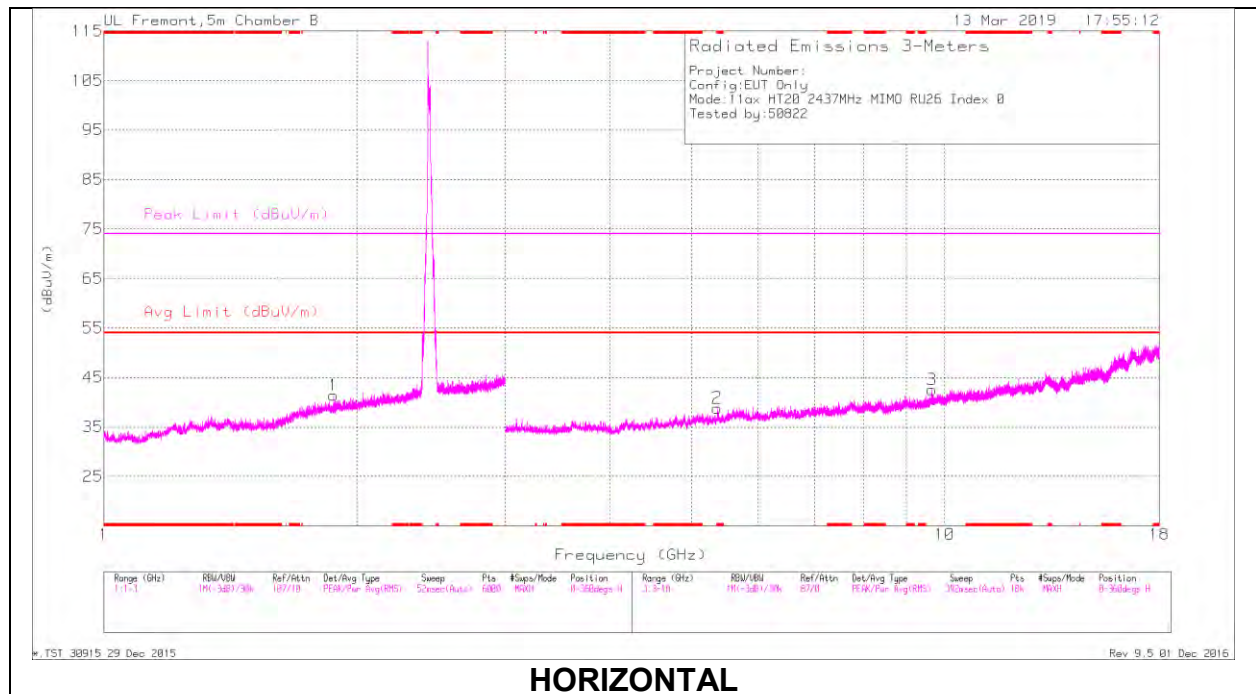
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 4.789	37.82	PK2	34	-27	44.82	-	-	74	-29.18	274	281	H
	* 4.788	25.15	MAv1	34	-27	32.15	54	-21.85	-	-	274	281	H
5	* 7.427	35.83	PK2	36.2	-25.4	46.63	-	-	74	-27.37	330	164	H
	* 7.426	24.04	MAv1	36.2	-25.5	34.74	54	-19.26	-	-	330	164	H
6	* 16.022	32.38	PK2	42.6	-18.1	56.88	-	-	74	-17.12	293	199	H
	* 16.023	18.33	MAv1	42.6	-18.1	42.83	54	-11.17	-	-	293	199	H
1	* 3.606	39.22	PK2	33.3	-29.1	43.42	-	-	74	-30.58	156	186	V
	* 3.606	26.7	MAv1	33.3	-29.1	30.9	54	-23.1	-	-	156	186	V
2	* 4.9	38.7	PK2	34.4	-28.9	44.2	-	-	74	-29.8	180	134	V
	* 4.902	27.64	MAv1	34.4	-28.9	33.14	54	-20.86	-	-	180	134	V
3	* 11.925	32.98	PK2	38.8	-20	51.78	-	-	74	-22.22	323	353	V
	* 11.927	18.77	MAv1	38.8	-20	37.57	54	-16.43	-	-	323	353	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL, CH 6 RESULTS



RADIATED EMISSIONS

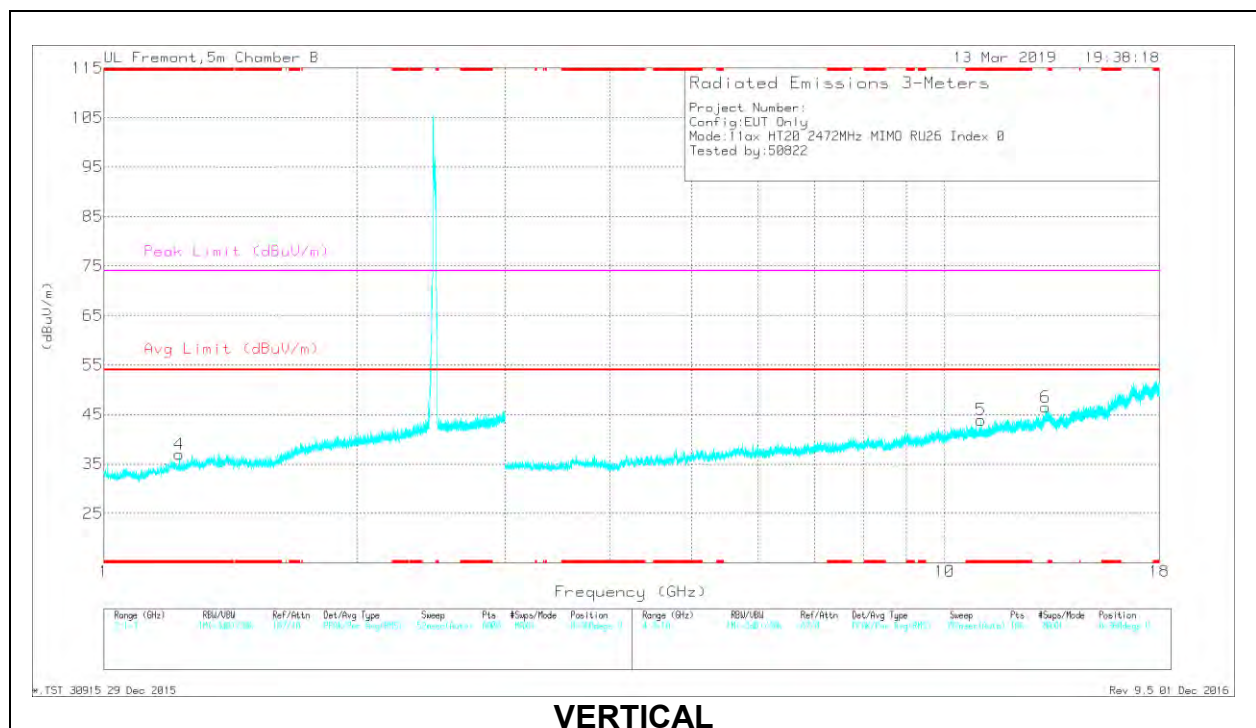
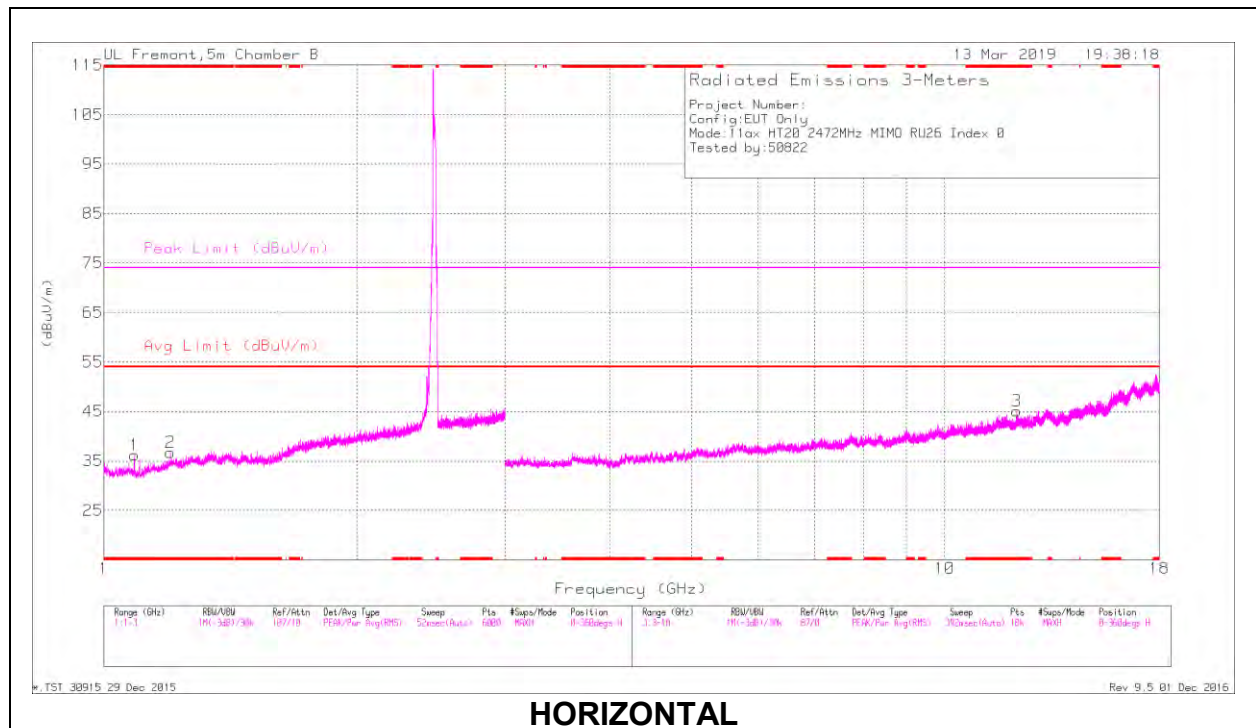
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cb/Ftr/P ad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.274	36.56	PK2	28.4	-20.5	0	44.46	-	-	74	-29.54	207	167	V
	* 1.276	18.92	MAv1	28.4	-20.5	0	26.82	54	-27.18	-	-	207	167	V
2	* 5.368	37.53	PK2	35.1	-27.4	0	45.23	-	-	74	-28.77	97	261	H
	* 5.367	24.97	MAv1	35.1	-27.3	0	32.77	54	-21.23	-	-	97	261	H
5	* 7.286	37.84	PK2	35.9	-26.2	0	47.54	-	-	74	-26.46	247	272	V
	* 7.286	25.58	MAv1	35.9	-26.2	0	35.28	54	-18.72	-	-	247	272	V
1	1.877	36.32	PK2	31	-19.7	0	47.62	-	-	-	-	312	278	H
3	9.662	34.04	PK2	37.2	-22.3	0	48.94	-	-	-	-	289	104	H
6	10.411	33	PK2	37.9	-21.4	0	49.5	-	-	-	-	351	219	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL, CH 13 RESULTS



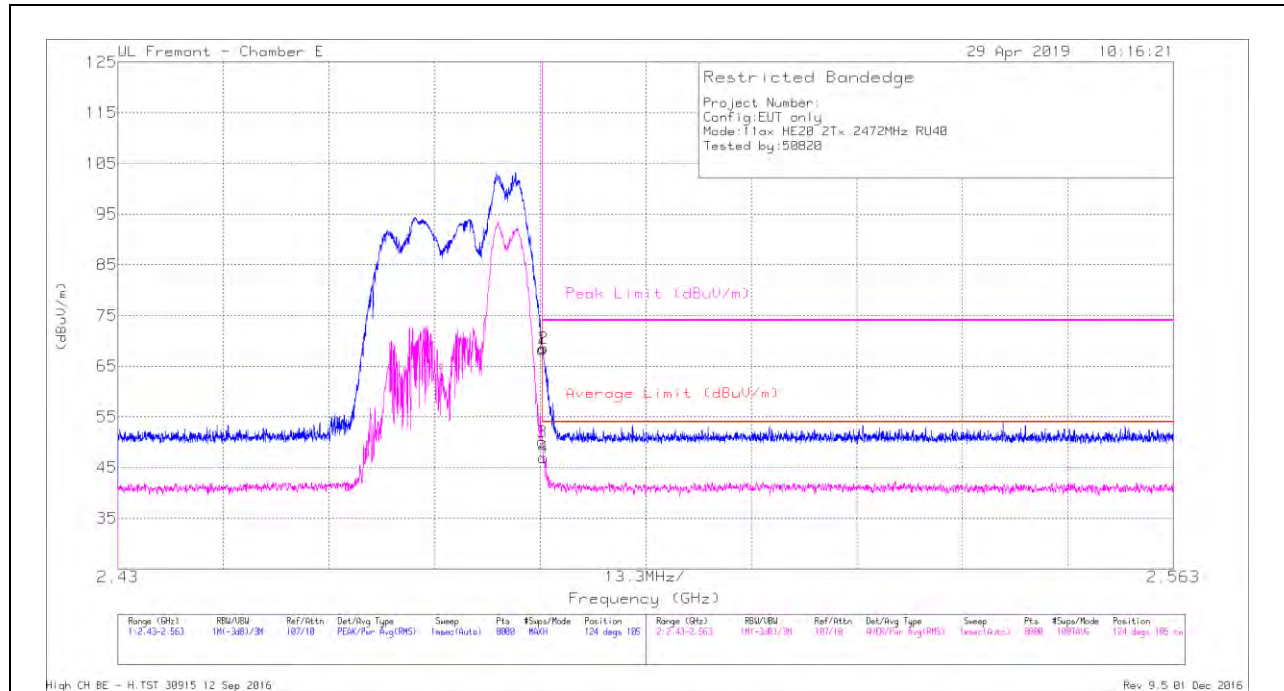
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Ftr/P ad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.088	36.92	PK2	27.3	-21.6	0	42.62	-	-	74	-31.38	157	158	H
	* 1.086	18.71	MAv1	27.3	-21.7	0	24.31	54	-29.69	-	-	157	158	H
2	* 1.202	36.17	PK2	28.2	-20.8	0	43.57	-	-	74	-30.43	355	223	H
	* 1.201	18.77	MAv1	28.2	-20.8	0	26.17	54	-27.83	-	-	355	223	H
4	* 1.229	35.71	PK2	28.3	-20.8	0	43.21	-	-	74	-30.79	49	183	V
	* 1.228	17.41	MAv1	28.3	-20.8	0	24.91	54	-29.09	-	-	49	183	V
3	* 12.174	32.97	PK2	39.2	-20.5	0	51.67	-	-	74	-22.33	9	252	H
	* 12.173	18.97	MAv1	39.2	-20.5	0	37.67	54	-16.33	-	-	9	252	H
5	* 11.049	32.91	PK2	37.9	-21	0	49.81	-	-	74	-24.19	12	278	V
	* 11.045	19.24	MAv1	37.9	-21.1	0	36.04	54	-17.96	-	-	12	278	V
6	13.18	32.58	PK2	40.3	-19.7	0	53.18	-	-	-	-	5	253	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

BANDEDGE (HIGH CHANNEL, CH 13)**HORIZONTAL RESULT**

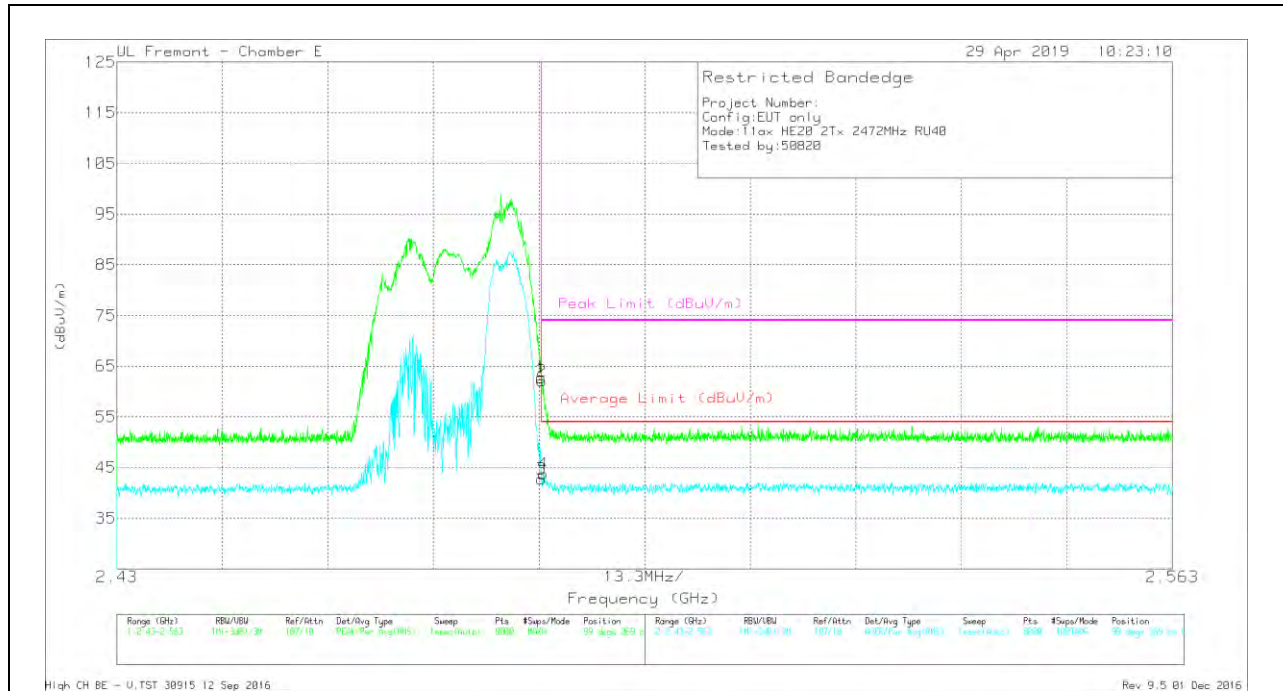
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	61.82	Pk	32.8	-26.3	68.32	-	-	74	-5.68	124	105	H
2	* 2.484	62.04	Pk	32.8	-26.3	68.54	-	-	74	-5.46	124	105	H
3	* 2.484	43.53	RMS	32.8	-26.3	50.03	54	-3.97	-	-	124	105	H
4	* 2.484	40.39	RMS	32.8	-26.3	46.89	54	-7.11	-	-	124	105	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

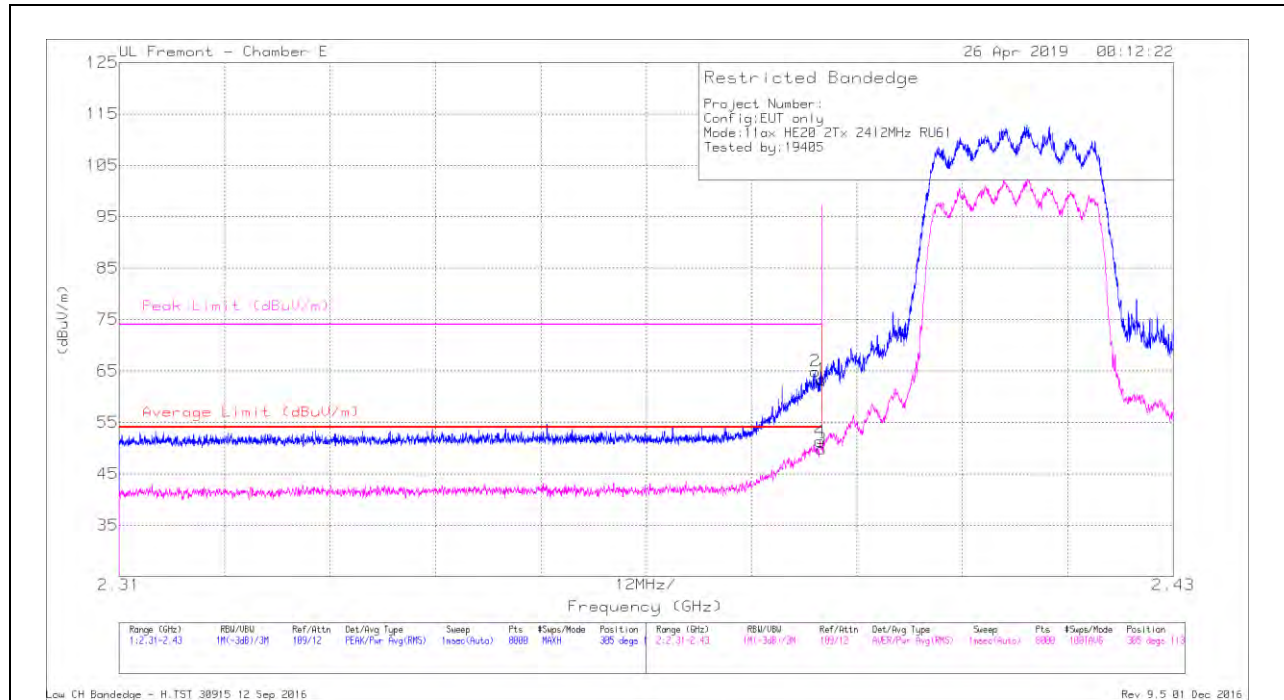


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	56.25	Pk	32.8	-26.3	62.75	-	-	74	-11.25	99	369	V
2	* 2.484	55.53	Pk	32.8	-26.3	62.03	-	-	74	-11.97	99	369	V
3	* 2.484	36.18	RMS	32.8	-26.3	42.68	54	-11.32	-	-	99	369	V
4	* 2.484	37.16	RMS	32.8	-26.3	43.66	54	-10.34	-	-	99	369	V

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

Pk - Peak detector

RMS - RMS detection

BANDEDGE (LOW CHANNEL, CH 1)**HORIZONTAL RESULT**

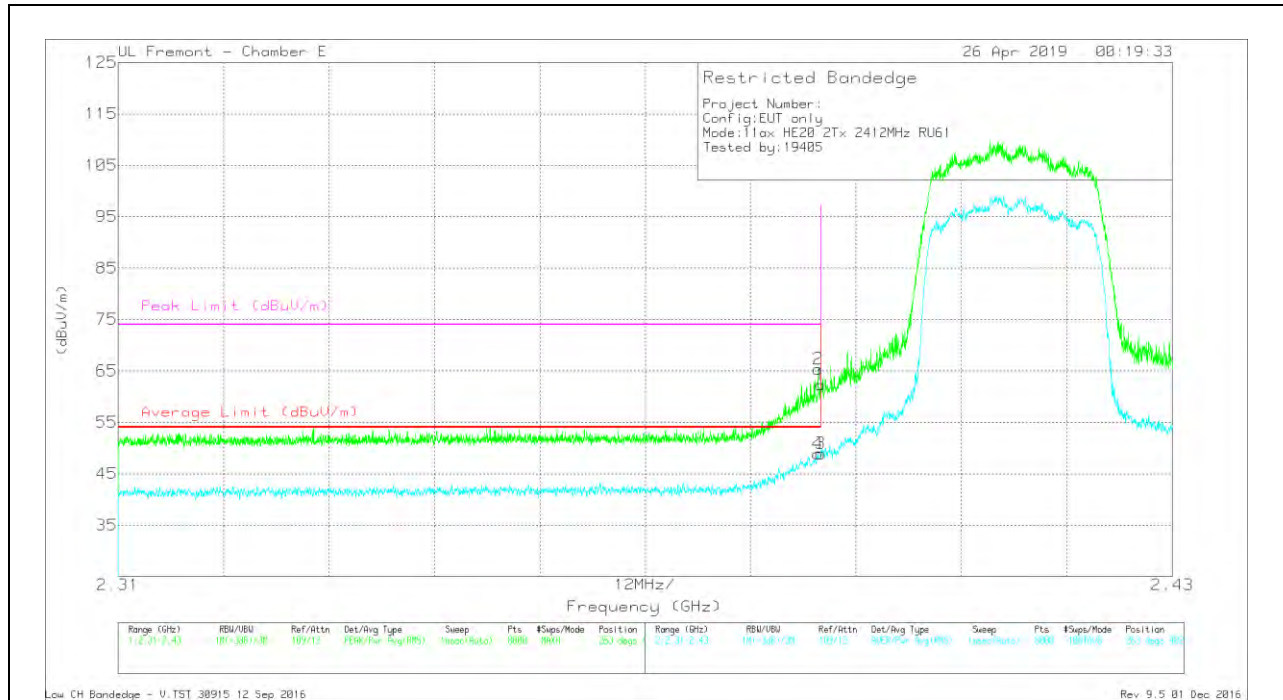
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT T119 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	49.33	Pk	32.3	-18.3	63.33	-	-	74	-10.67	305	113	H
2	* 2.389	50.92	Pk	32.3	-18.3	64.92	-	-	74	-9.08	305	113	H
3	* 2.39	35.82	RMS	32.3	-18.3	49.82	54	-4.18	-	-	305	113	H
4	* 2.39	37.31	RMS	32.3	-18.3	51.31	54	-2.69	-	-	305	113	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

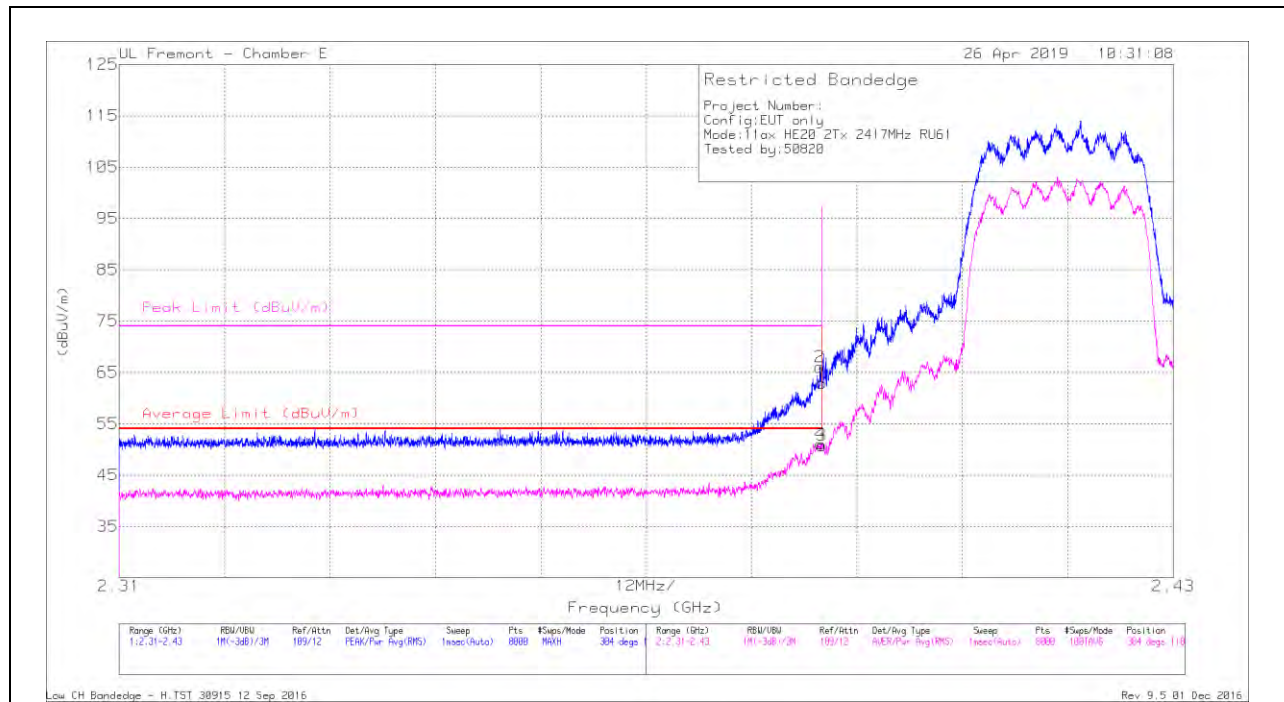


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	48.29	Pk	32.3	-18.3	62.29	-	-	74	-11.71	263	402	V
2	* 2.39	51.37	Pk	32.3	-18.3	65.37	-	-	74	-8.63	263	402	V
3	* 2.39	34.94	RMS	32.3	-18.3	48.94	54	-5.06	-	-	263	402	V
4	* 2.39	34.84	RMS	32.3	-18.3	48.84	54	-5.16	-	-	263	402	V

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

Pk - Peak detector

RMS - RMS detection

BANDEDGE (LOW CHANNEL, CH 2)**HORIZONTAL RESULT**

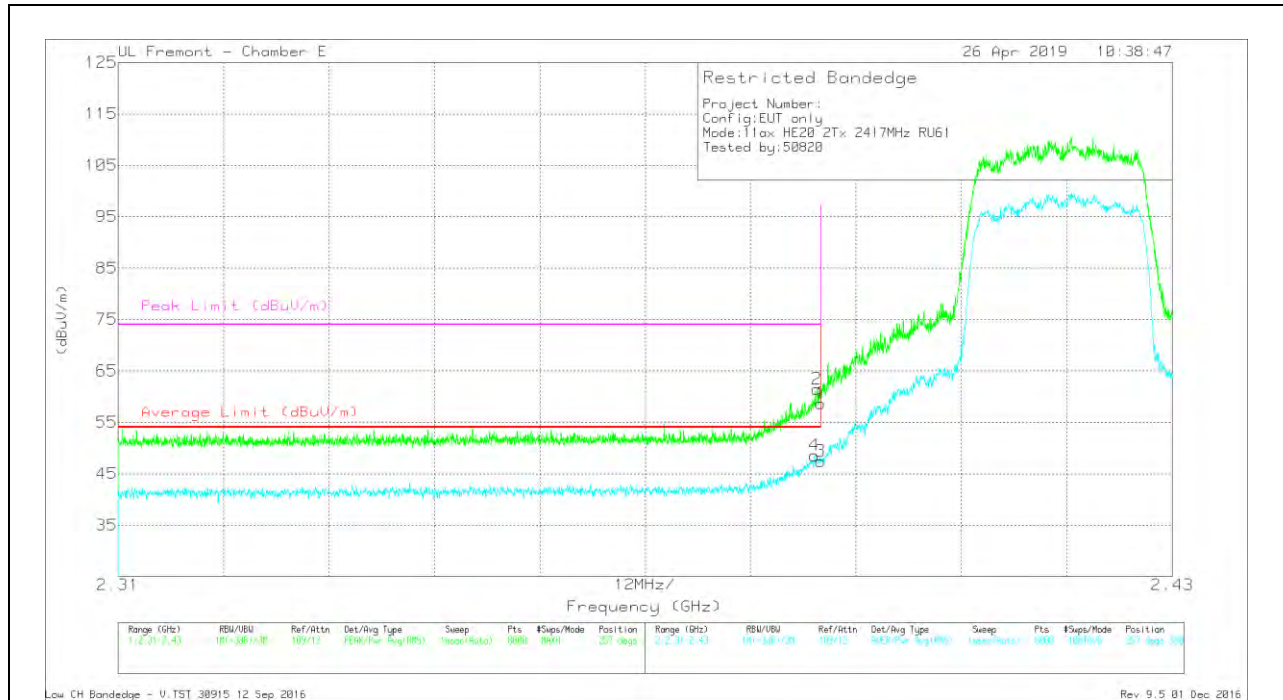
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	48.92	Pk	32.3	-18.3	62.92	-	-	74	-11.08	304	110	H
2	* 2.39	52.04	Pk	32.3	-18.3	66.04	-	-	74	-7.96	304	110	H
3	* 2.39	36.77	RMS	32.3	-18.3	50.77	54	-3.23	-	-	304	110	H
4	* 2.39	37.03	RMS	32.3	-18.3	51.03	54	-2.97	-	-	304	110	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

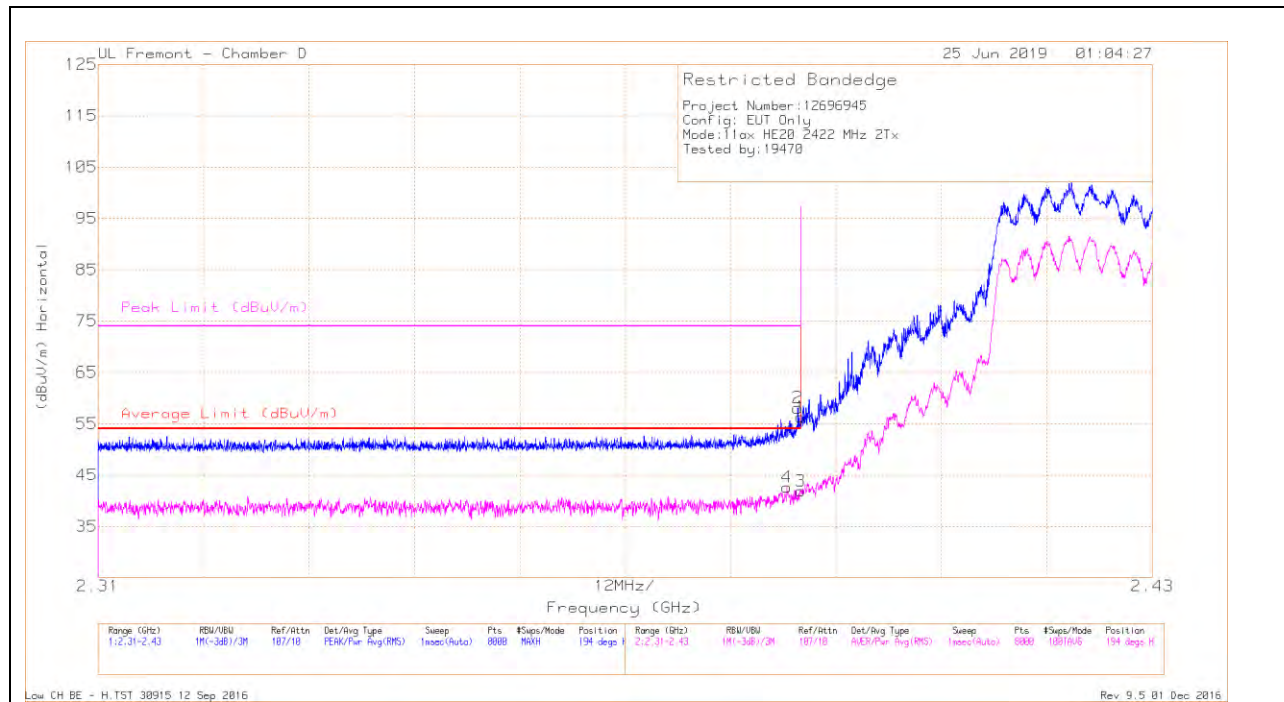


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filt/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 2.389	34.56	RMS	32.3	-18.3	48.56	54	-5.44	-	-	257	390	V
1	* 2.39	44.66	Pk	32.3	-18.3	58.66	-	-	74	-15.34	257	390	V
2	* 2.39	47.47	Pk	32.3	-18.3	61.47	-	-	74	-12.53	257	390	V
3	* 2.39	33.44	RMS	32.3	-18.3	47.44	54	-6.56	-	-	257	390	V

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

Pk - Peak detector

RMS - RMS detection

BANDEDGE (LOW CHANNEL, CH 3)**HORIZONTAL RESULT**

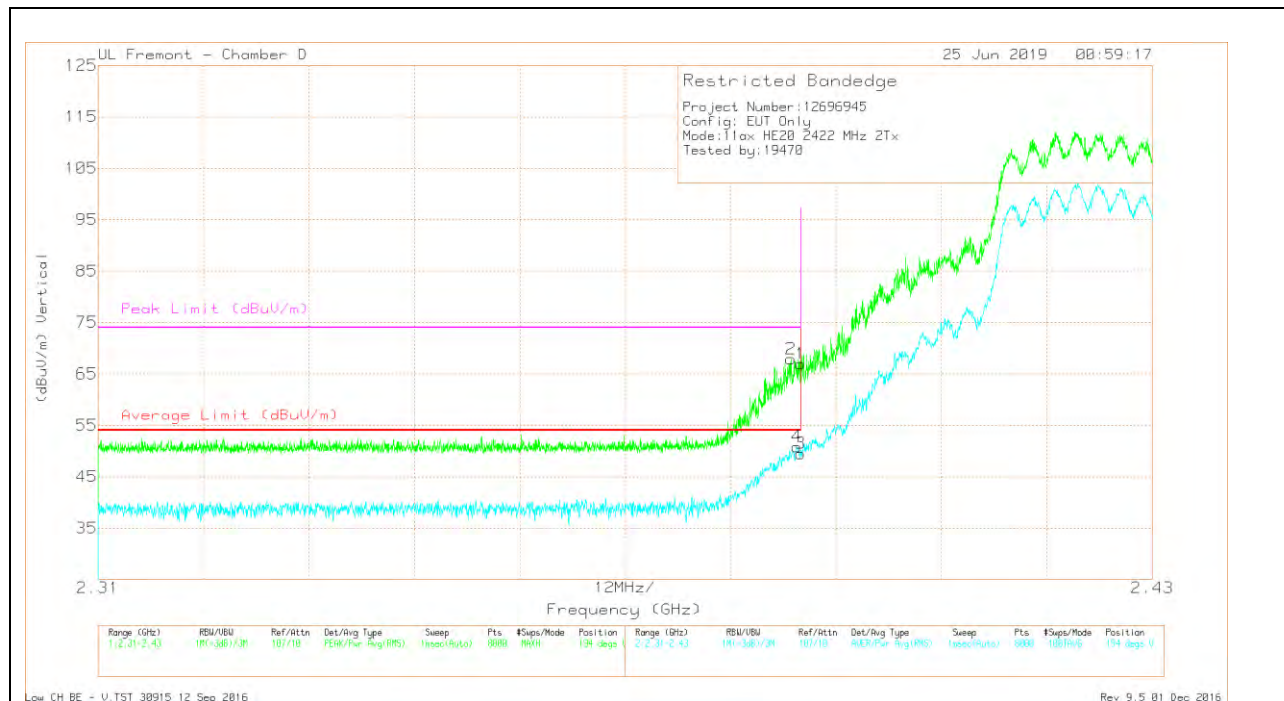
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	44.88	Pk	32	-20.6	56.28	-	-	74	-17.72	194	172	H
2	* 2.39	46.7	Pk	32	-20.6	58.1	-	-	74	-15.9	194	172	H
3	* 2.39	30.49	RMS	32	-20.6	41.89	54	-12.11	-	-	194	172	H
4	* 2.388	31.22	RMS	32	-20.6	42.62	54	-11.38	-	-	194	172	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

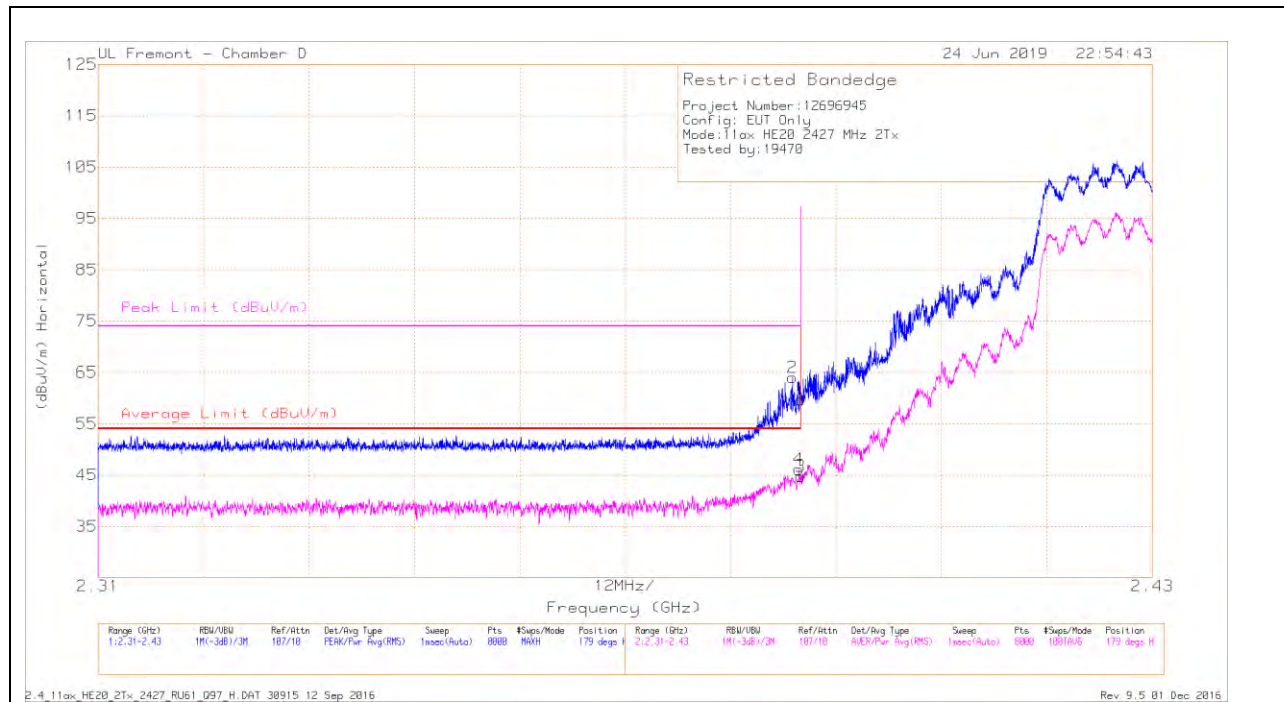


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	55.56	Pk	32	-20.6	66.96	-	-	74	-7.04	194	172	V
2	* 2.389	56.5	Pk	32	-20.6	67.9	-	-	74	-6.1	194	172	V
3	* 2.39	38.13	RMS	32	-20.6	49.53	54	-4.47	-	-	194	172	V
4	* 2.39	39.45	RMS	32	-20.6	50.85	54	-3.15	-	-	194	172	V

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

Pk - Peak detector

RMS - RMS detection

BANDEDGE (LOW CHANNEL, CH 4)**HORIZONTAL RESULT**

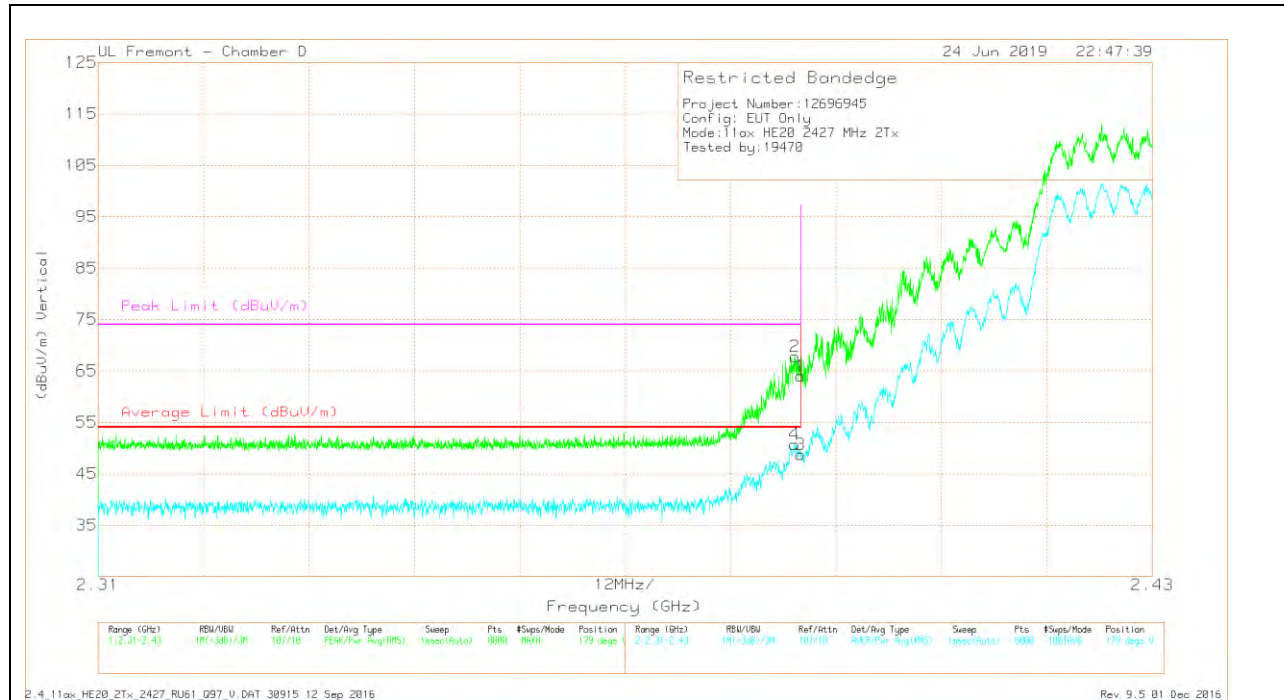
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	48.28	Pk	32	-20.6	59.68	-	-	74	-14.32	179	287	H
2	* 2.389	52.61	Pk	32	-20.6	64.01	-	-	74	-9.99	179	287	H
3	* 2.39	33.33	RMS	32	-20.6	44.73	54	-9.27	-	-	179	287	H
4	* 2.39	34.73	RMS	32	-20.6	46.13	54	-7.87	-	-	179	287	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

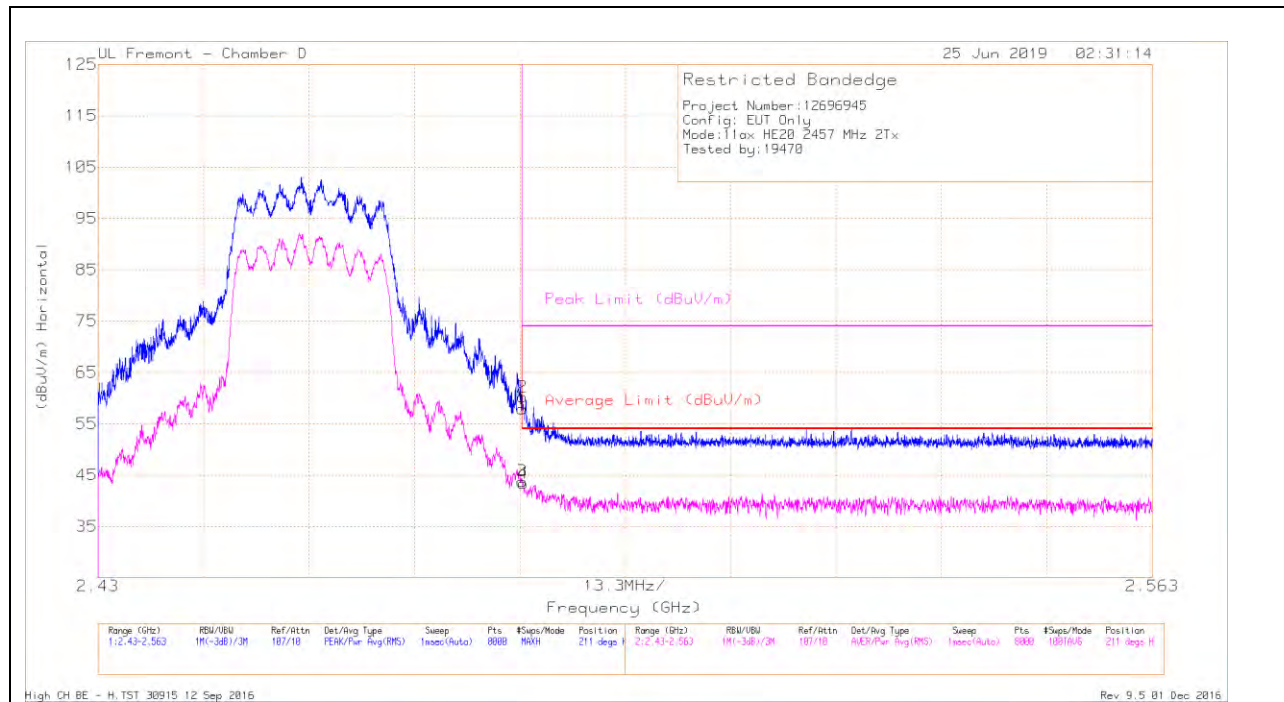


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	52.58	Pk	32	-20.6	63.98	-	-	74	-10.02	179	287	V
2	* 2.389	56.37	Pk	32	-20.6	67.77	-	-	74	-6.23	179	287	V
3	* 2.39	37.33	RMS	32	-20.6	48.73	54	-5.27	-	-	179	287	V
4	* 2.389	39.33	RMS	32	-20.6	50.73	54	-3.27	-	-	179	287	V

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

Pk - Peak detector

RMS - RMS detection

BANEDGE (HIGH CHANNEL, CH 10)**HORIZONTAL RESULT**

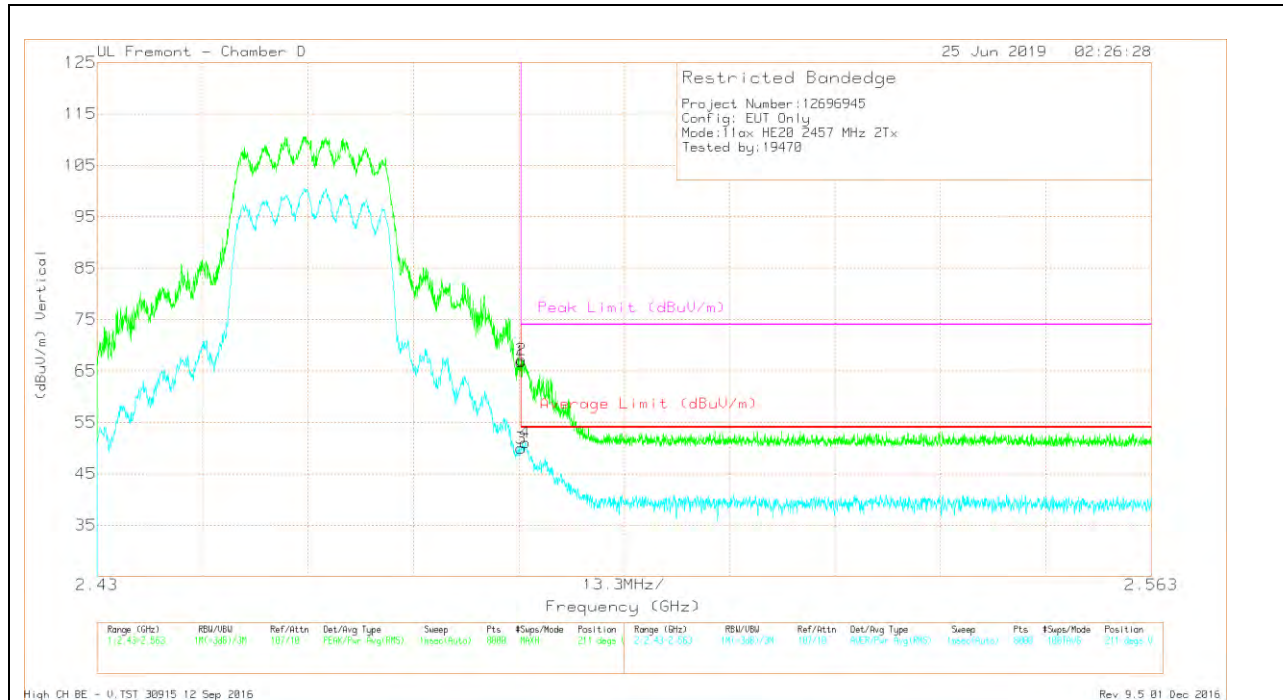
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cb/Fltr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	46.09	Pk	32.4	-20.6	57.89	-	-	74	-16.11	211	234	H
2	* 2.484	48.4	Pk	32.4	-20.6	60.2	-	-	74	-13.8	211	234	H
3	* 2.484	31.99	RMS	32.4	-20.6	43.79	54	-10.21	-	-	211	234	H
4	* 2.484	31.55	RMS	32.4	-20.6	43.35	54	-10.65	-	-	211	234	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	54.99	Pk	32.4	-20.6	66.79	-	-	74	-7.21	211	234	V
2	* 2.484	55.35	Pk	32.4	-20.6	67.15	-	-	74	-6.85	211	234	V
3	* 2.484	38.16	RMS	32.4	-20.6	49.96	54	-4.04	-	-	211	234	V
4	* 2.484	39.37	RMS	32.3	-20.6	51.07	54	-2.93	-	-	211	234	V

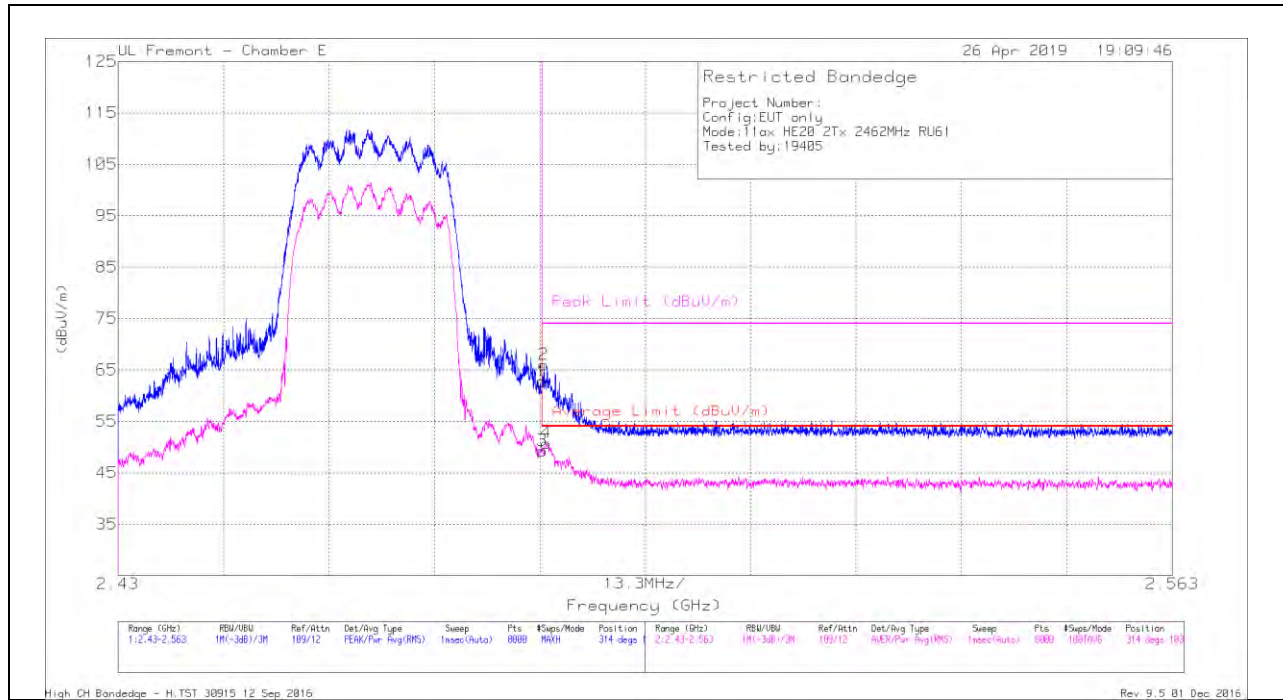
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANEDGE (HIGH CHANNEL, CH 11)

HORIZONTAL RESULT



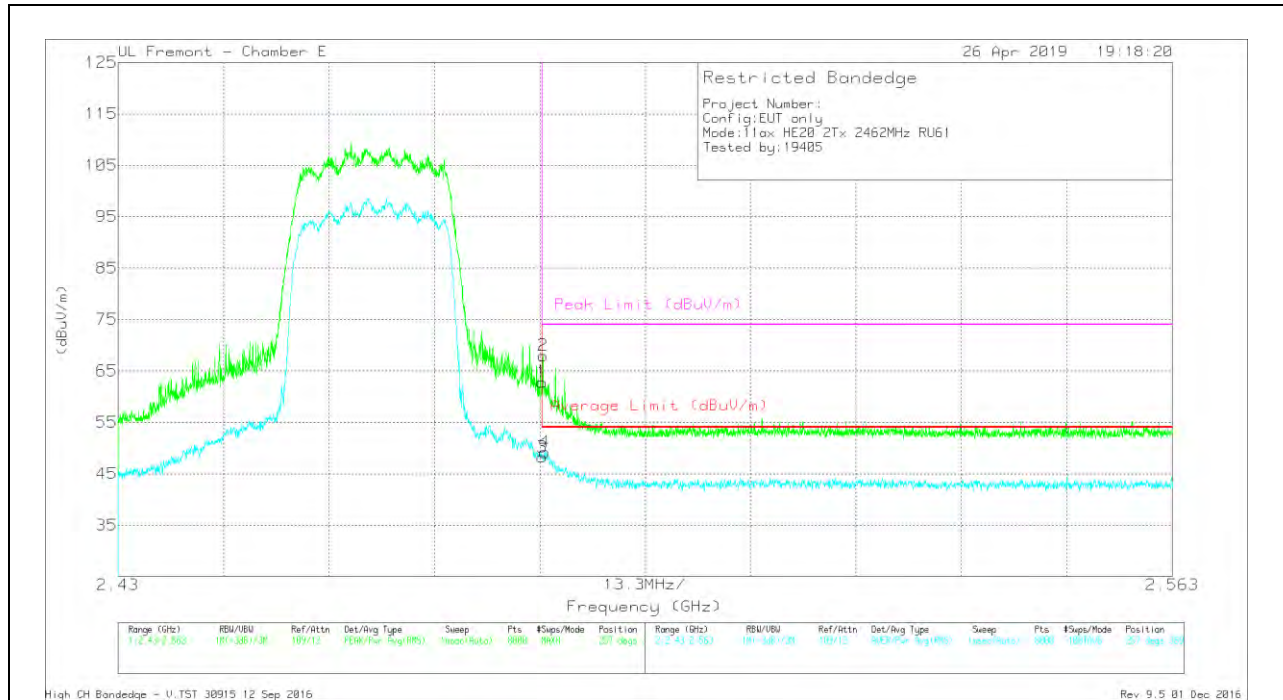
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	48.05	Pk	32.8	-18.1	62.75	-	-	74	-11.25	314	103	H
2	* 2.484	51.33	Pk	32.8	-18.1	66.03	-	-	74	-7.97	314	103	H
3	* 2.484	34.59	RMS	32.8	-18.1	49.29	54	-4.71	-	-	314	103	H
4	* 2.484	36.05	RMS	32.8	-18.1	50.75	54	-3.25	-	-	314	103	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	48.12	Pk	32.8	-18.1	62.82	-	-	74	-11.18	257	369	V
2	* 2.484	53.28	Pk	32.8	-18.1	67.98	-	-	74	-6.02	257	369	V
3	* 2.484	33.56	RMS	32.8	-18.1	48.26	54	-5.74	-	-	257	369	V
4	* 2.484	34.48	RMS	32.8	-18.1	49.18	54	-4.82	-	-	257	369	V

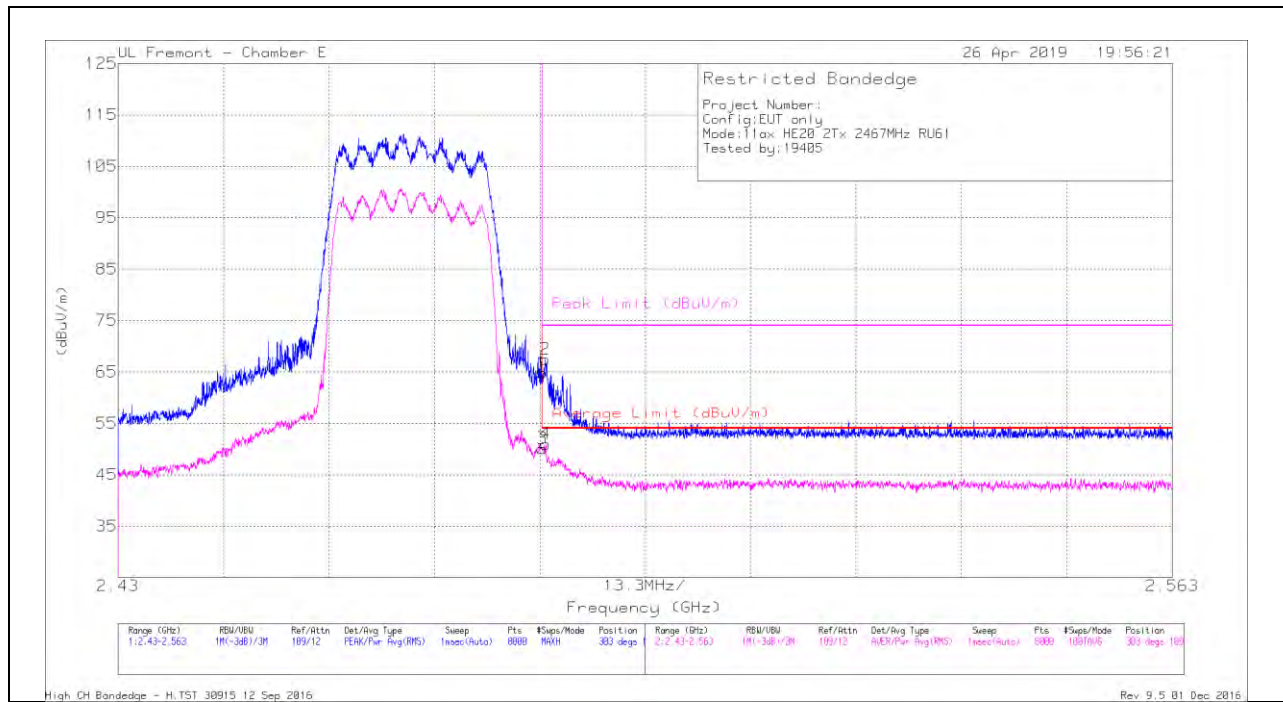
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 12)

HORIZONTAL RESULT



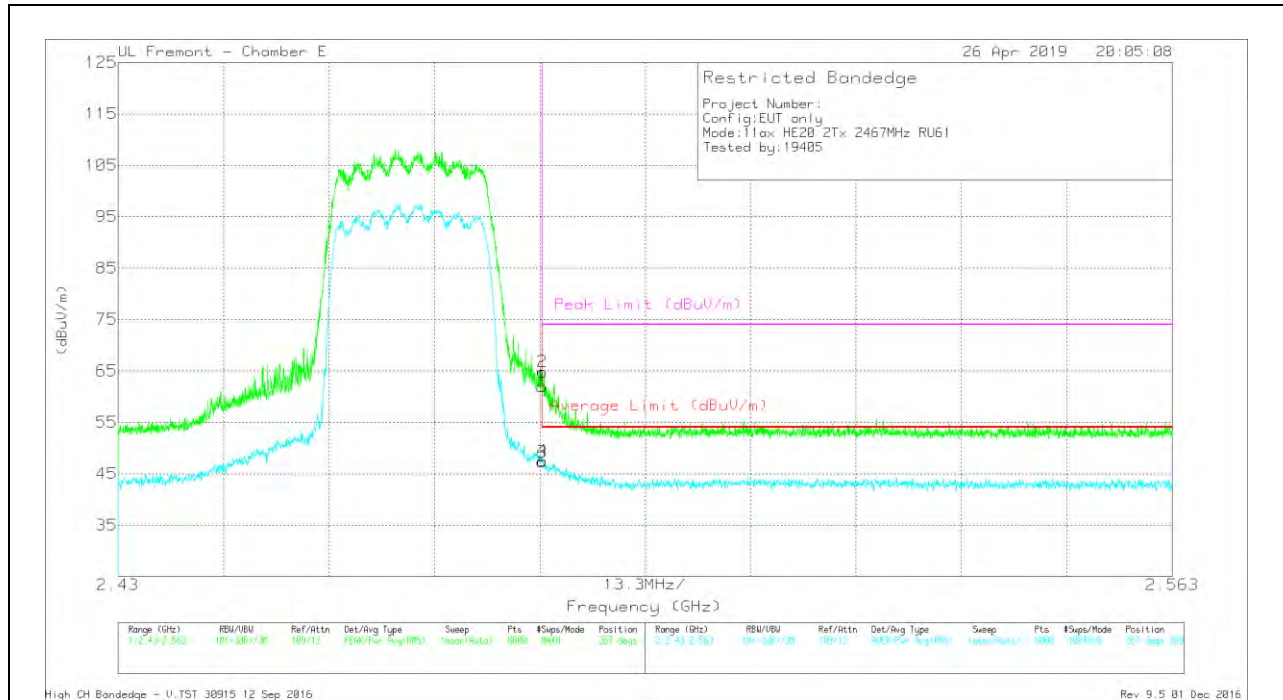
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	50.18	Pk	32.8	-18.1	64.88	-	-	74	-9.12	303	109	H
2	* 2.484	52.76	Pk	32.8	-18.1	67.46	-	-	74	-6.54	303	109	H
3	* 2.484	35.43	RMS	32.8	-18.1	50.13	54	-3.87	-	-	303	109	H
4	* 2.484	36.29	RMS	32.8	-18.1	50.99	54	-3.01	-	-	303	109	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	47.26	Pk	32.8	-18.1	61.96	-	-	74	-12.04	267	369	V
2	* 2.484	50.12	Pk	32.8	-18.1	64.82	-	-	74	-9.18	267	369	V
3	* 2.484	32.55	RMS	32.8	-18.1	47.25	54	-6.75	-	-	267	369	V
4	* 2.484	32.82	RMS	32.8	-18.1	47.52	54	-6.48	-	-	267	369	V

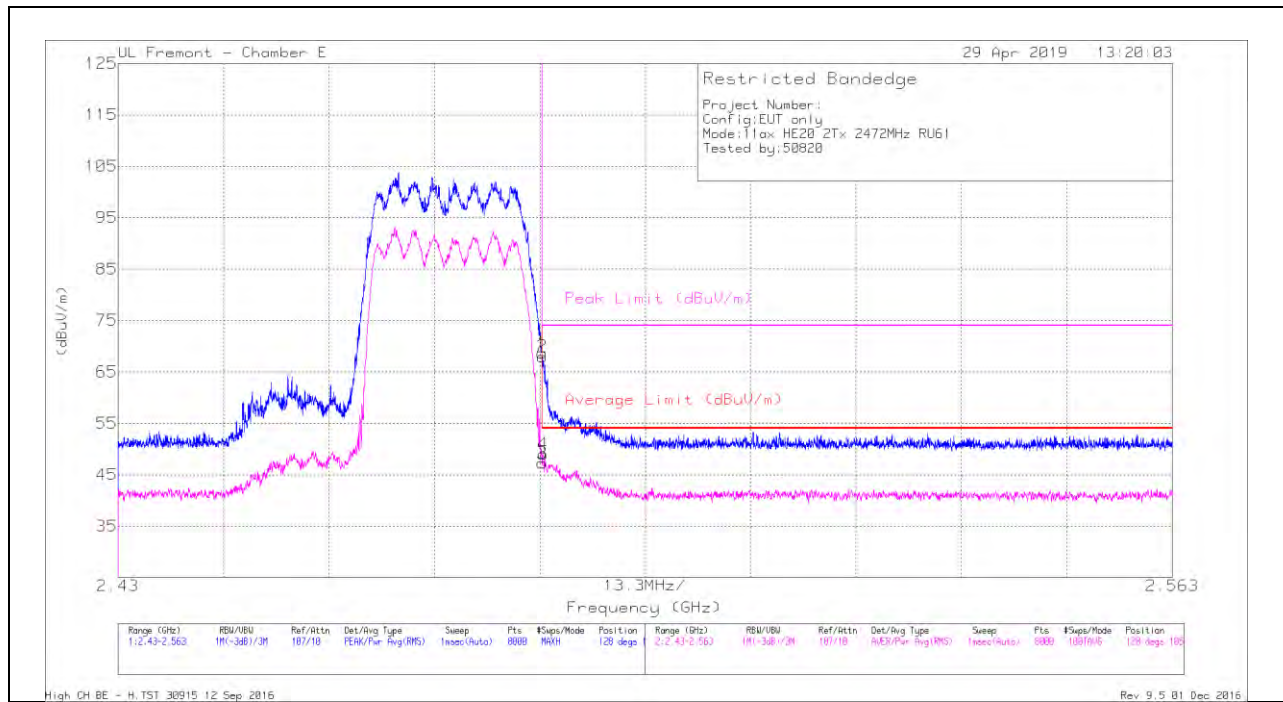
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANEDGE (HIGH CHANNEL, CH 13)

HORIZONTAL RESULT



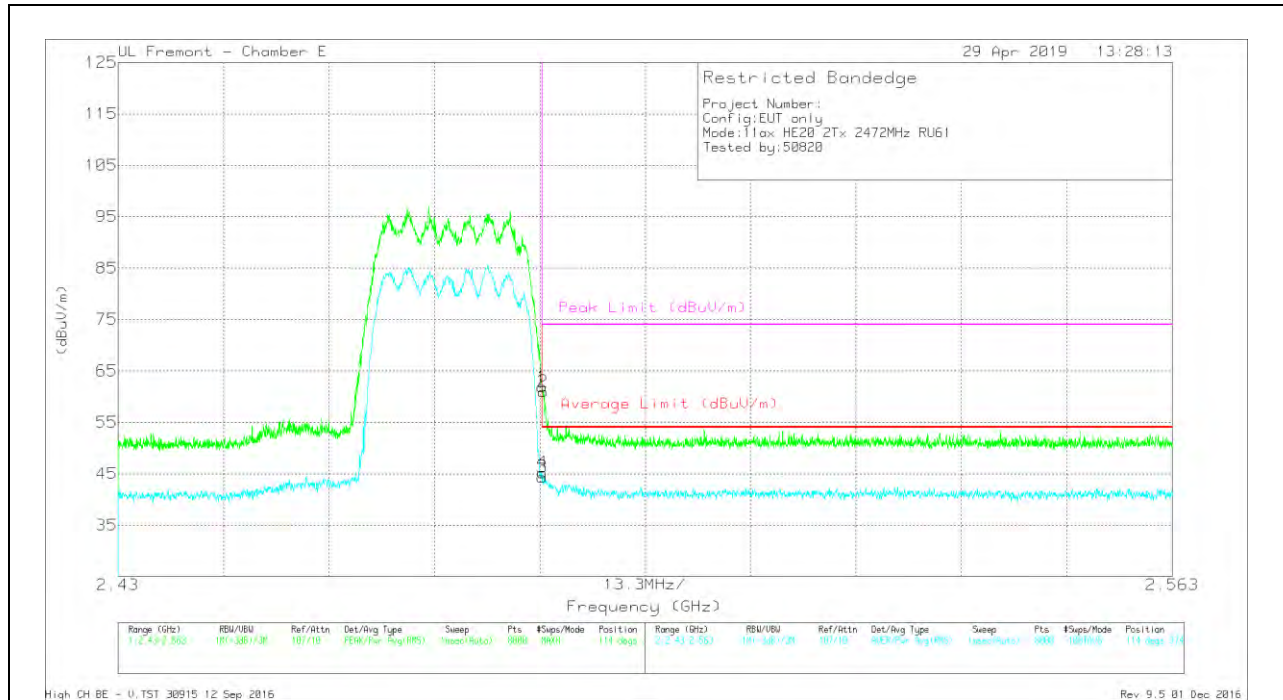
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	62.19	Pk	32.8	-26.3	68.69	-	-	74	-5.31	128	105	H
2	* 2.484	61.46	Pk	32.8	-26.3	67.96	-	-	74	-6.04	128	105	H
3	* 2.484	40.77	RMS	32.8	-26.3	47.27	54	-6.73	-	-	128	105	H
4	* 2.484	42.52	RMS	32.8	-26.3	49.02	54	-4.98	-	-	128	105	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	55.41	Pk	32.8	-26.3	61.91	-	-	74	-12.09	114	374	V
2	* 2.484	54.47	Pk	32.8	-26.3	60.97	-	-	74	-13.03	114	374	V
3	* 2.484	37.88	RMS	32.8	-26.3	44.38	54	-9.62	-	-	114	374	V
4	* 2.484	38.76	RMS	32.8	-26.3	45.26	54	-8.74	-	-	114	374	V

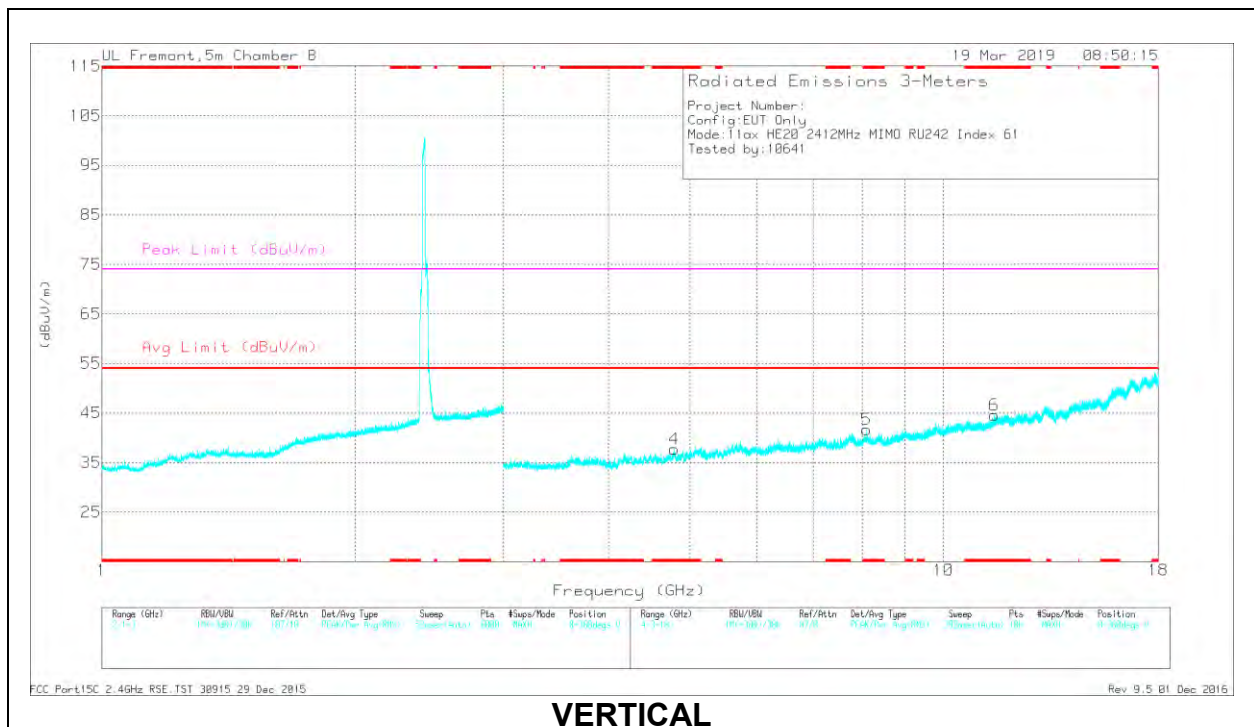
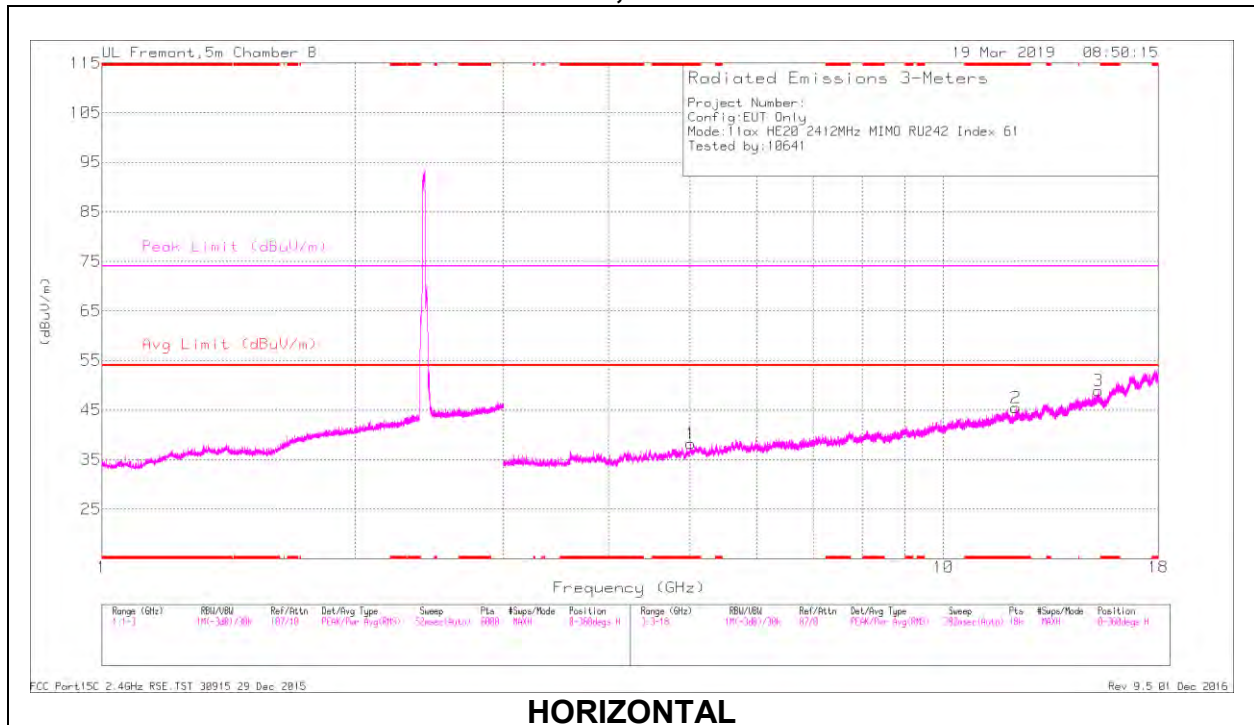
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, CH 1 RESULTS



RADIATED EMISSIONS

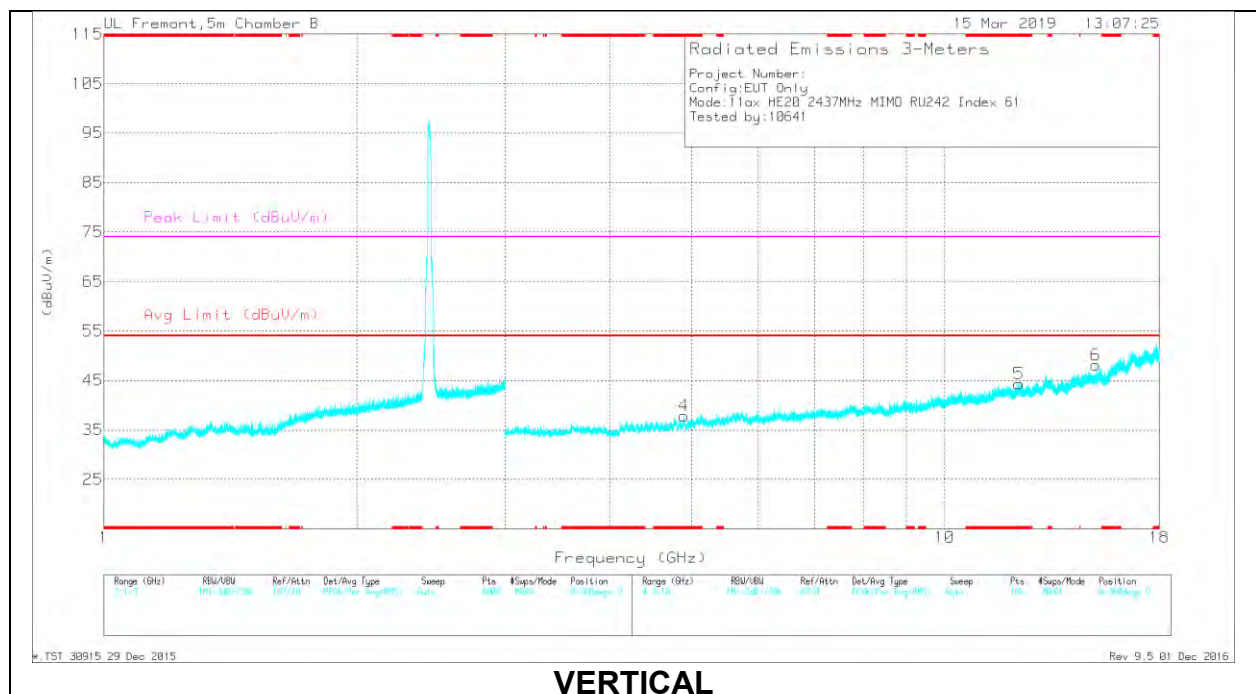
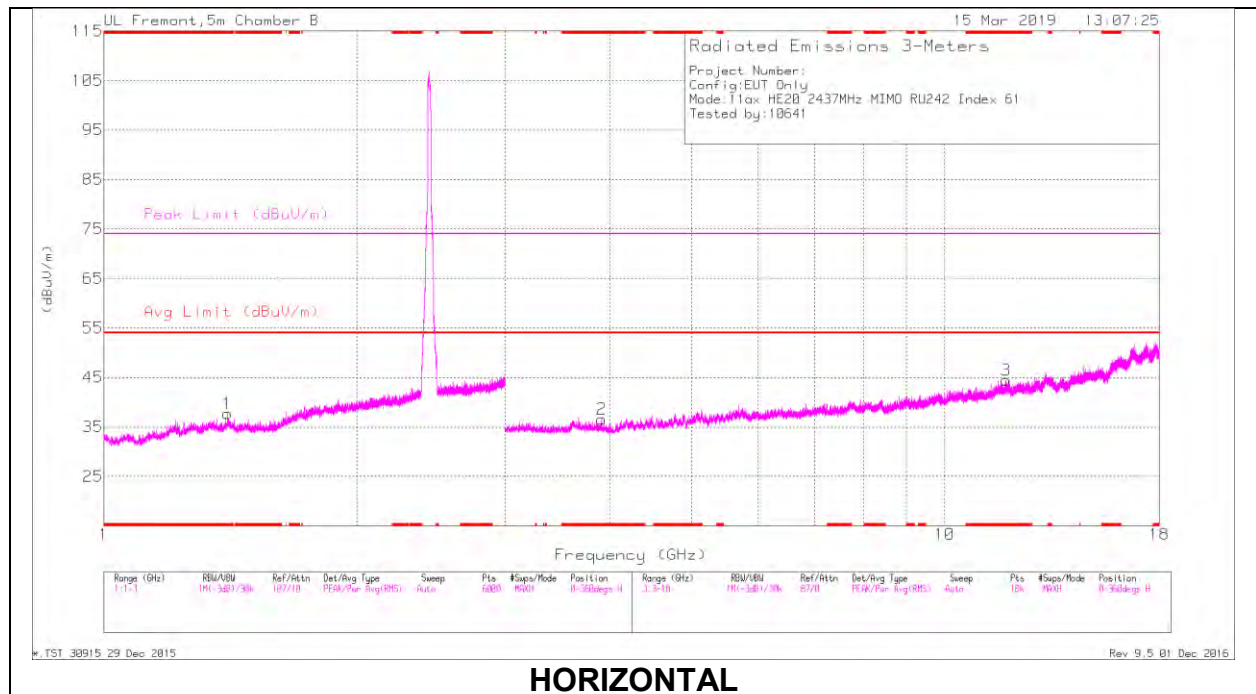
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.007	38.56	PK2	34.6	-28.1	45.06	-	-	74	-28.94	169	280	H
	* 5.007	26.13	MAv1	34.6	-28.1	32.63	54	-21.37	-	-	169	280	H
2	* 12.191	33.07	PK2	39.2	-20.4	51.87	-	-	74	-22.13	183	309	H
	* 12.191	21.66	MAv1	39.2	-20.5	40.36	54	-13.64	-	-	183	309	H
4	* 4.787	37.21	PK2	34	-27	44.21	-	-	74	-29.79	331	260	V
	* 4.787	26.46	MAv1	34	-27	33.46	54	-20.54	-	-	331	260	V
5	* 8.104	35.6	PK2	36.5	-24.3	47.8	-	-	74	-26.2	322	280	V
	* 8.104	24.11	MAv1	36.5	-24.3	36.31	54	-17.69	-	-	322	280	V
6	* 11.499	32.84	PK2	38.4	-20.8	50.44	-	-	74	-23.56	312	299	V
	* 11.496	22.16	MAv1	38.4	-20.8	39.76	54	-14.24	-	-	312	299	V
3	15.297	32.07	PK2	41.1	-18.5	54.67	-	-	-	-	163	285	H

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL, CH 6 RESULTS



RADIATED EMISSIONS

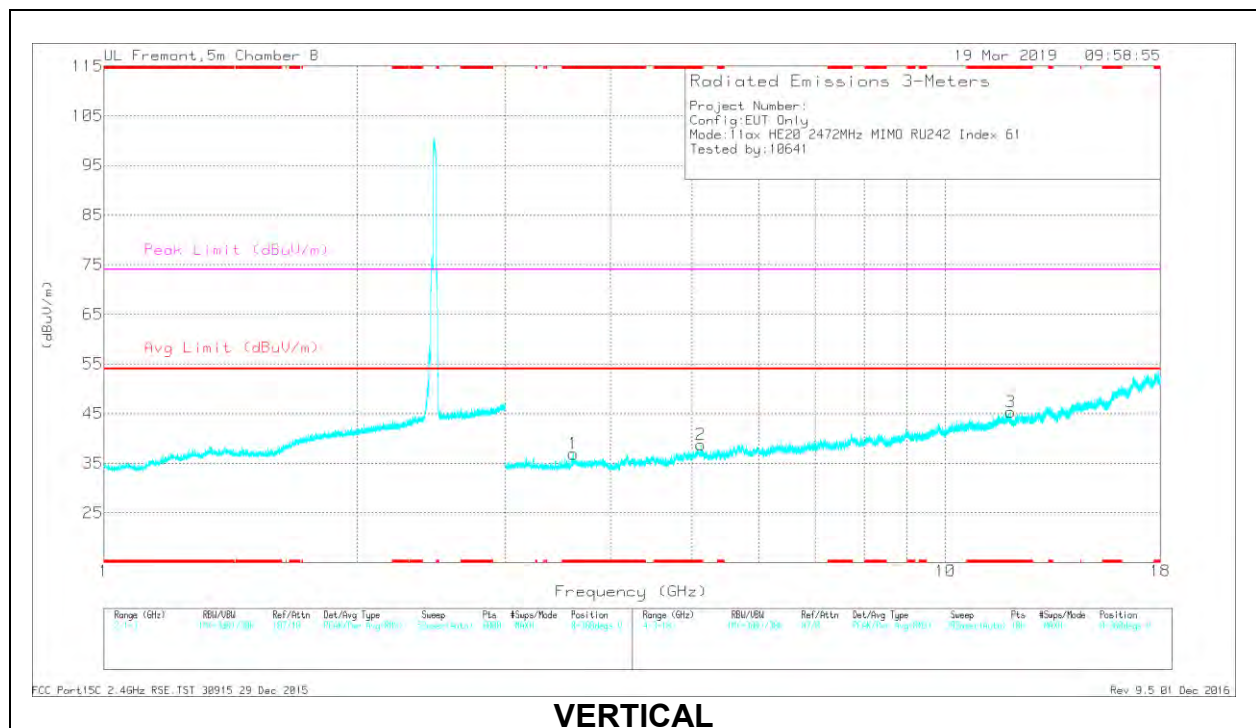
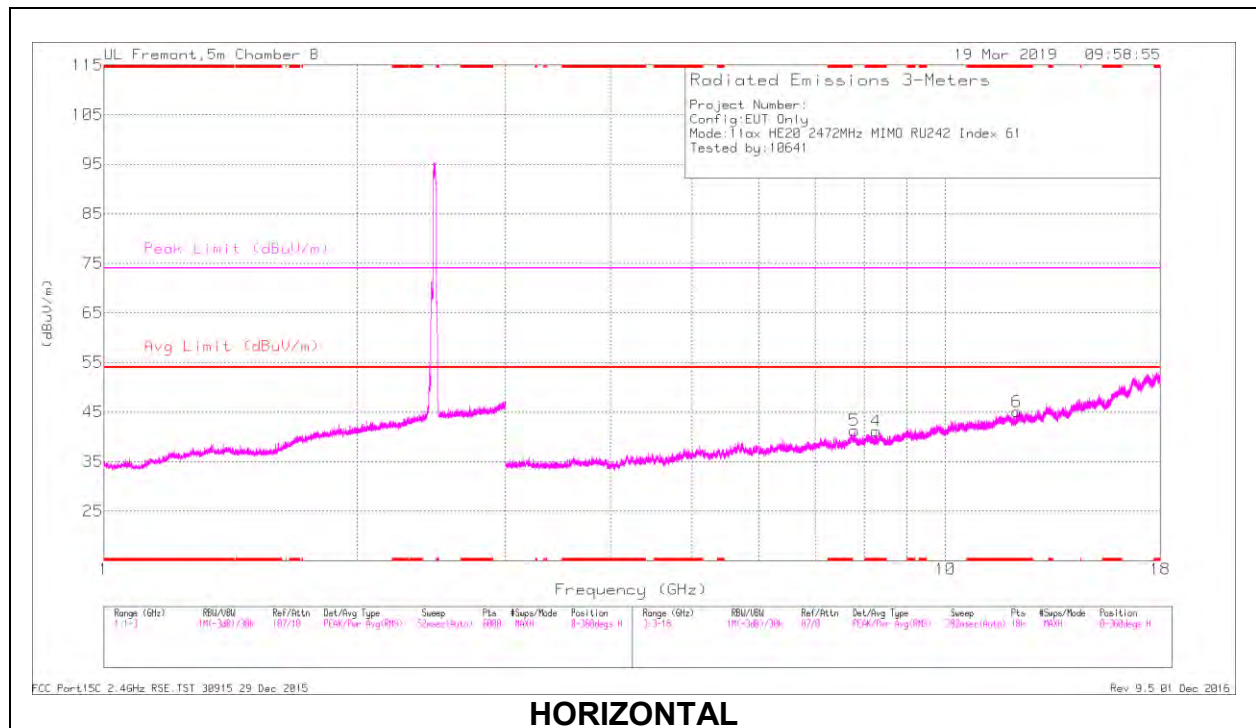
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.403	36.97	PK2	28.5	-20	45.47	-	-	74	-28.53	328	196	H
	* 1.405	20.3	MAv1	28.5	-20	28.8	54	-25.2	-	-	328	196	H
2	* 3.905	39.5	PK2	33.4	-28.9	44	-	-	74	-30	299	239	H
	* 3.905	27.25	MAv1	33.4	-28.9	31.75	54	-22.25	-	-	299	239	H
3	* 11.826	33.25	PK2	39.1	-20.6	51.75	-	-	74	-22.25	251	274	H
	* 11.826	19.92	MAv1	39.1	-20.6	38.42	54	-15.58	-	-	251	274	H
4	* 4.897	39.23	PK2	34.4	-28.8	44.83	-	-	74	-29.17	237	317	V
	* 4.898	27.43	MAv1	34.4	-28.9	32.93	54	-21.07	-	-	237	317	V
5	* 12.254	32.74	PK2	39.2	-20.2	51.74	-	-	74	-22.26	221	281	V
	* 12.255	19.85	MAv1	39.2	-20.2	38.85	54	-15.15	-	-	221	281	V
6	15.13	18.71	MAv1	40.6	-18.7	40.61	54	-13.39	-	-	232	322	V
	15.132	32.43	PK2	40.6	-18.7	54.33	-	-	74	-19.67	232	322	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL, CH 13 RESULTS



RADIATED EMISSIONS

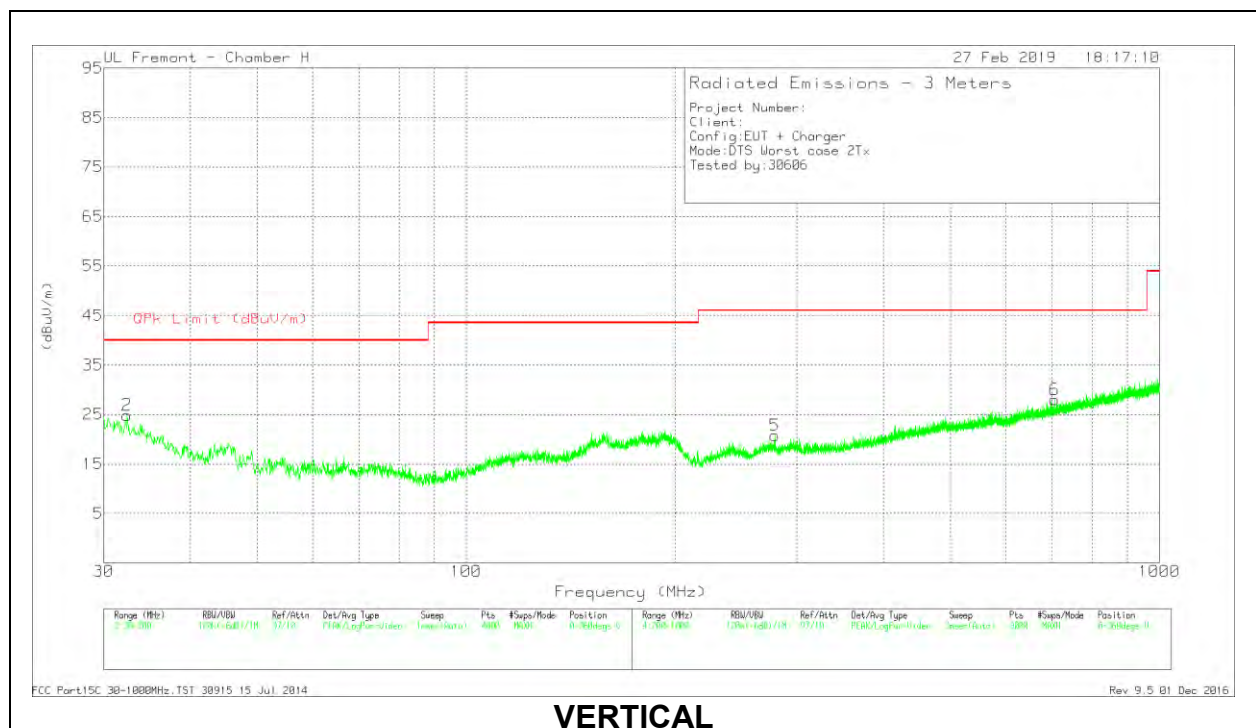
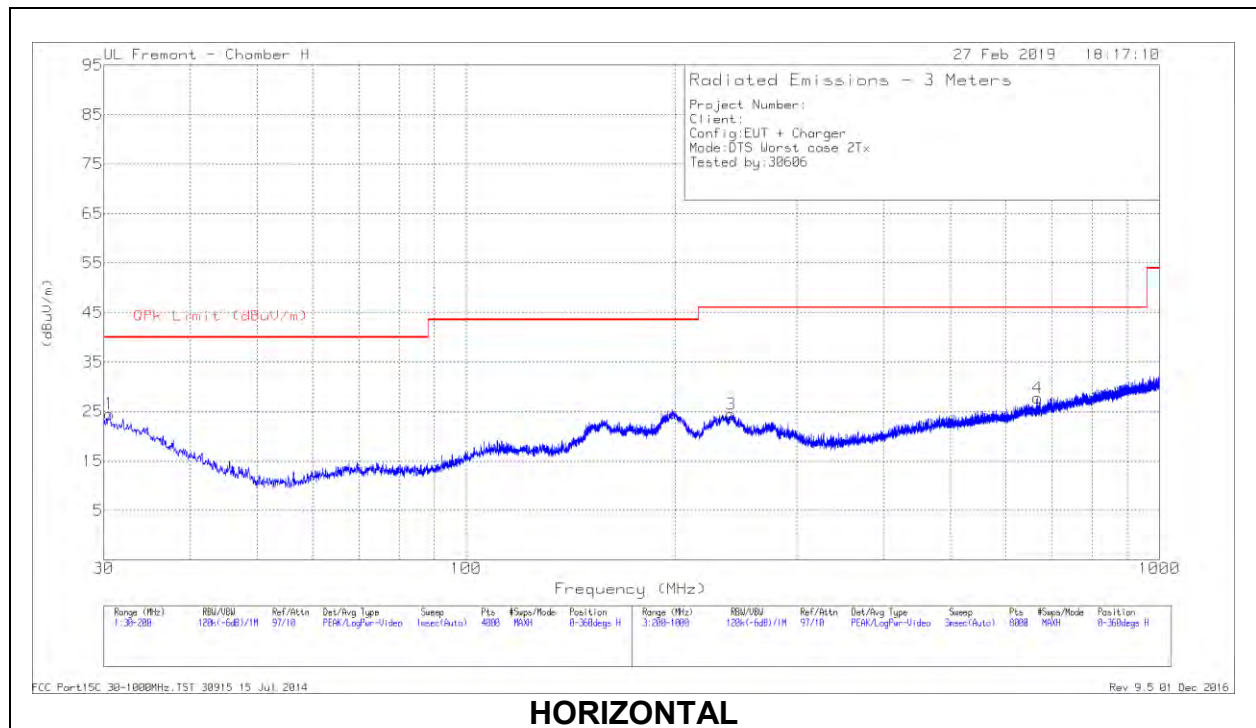
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 8.272	36.08	PK2	36.4	-25	47.48	-	-	74	-26.52	332	148	H
	* 8.269	24.42	MAv1	36.4	-25	35.82	54	-18.18	-	-	332	148	H
6	* 12.15	32.73	PK2	39.1	-20.7	51.13	-	-	74	-22.87	289	198	H
	* 12.151	21.72	MAv1	39.1	-20.7	40.12	54	-13.88	-	-	289	198	H
1	* 3.609	39.1	PK2	33.3	-29	43.4	-	-	74	-30.6	219	218	V
	* 3.61	27.85	MAv1	33.3	-29.1	32.05	54	-21.95	-	-	219	218	V
2	* 5.121	37.82	PK2	34.6	-27	45.42	-	-	74	-28.58	254	166	V
	* 5.123	26.36	MAv1	34.6	-27	33.96	54	-20.04	-	-	254	166	V
3	* 11.952	33.54	PK2	38.8	-20.4	51.94	-	-	74	-22.06	305	157	V
	* 11.95	21.88	MAv1	38.8	-20.4	40.28	54	-13.72	-	-	305	157	V
5	7.795	34.74	PK2	36.4	-24.1	47.04	-	-	-	-	295	175	H

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

9.2. WORST CASE BELOW 1 GHz



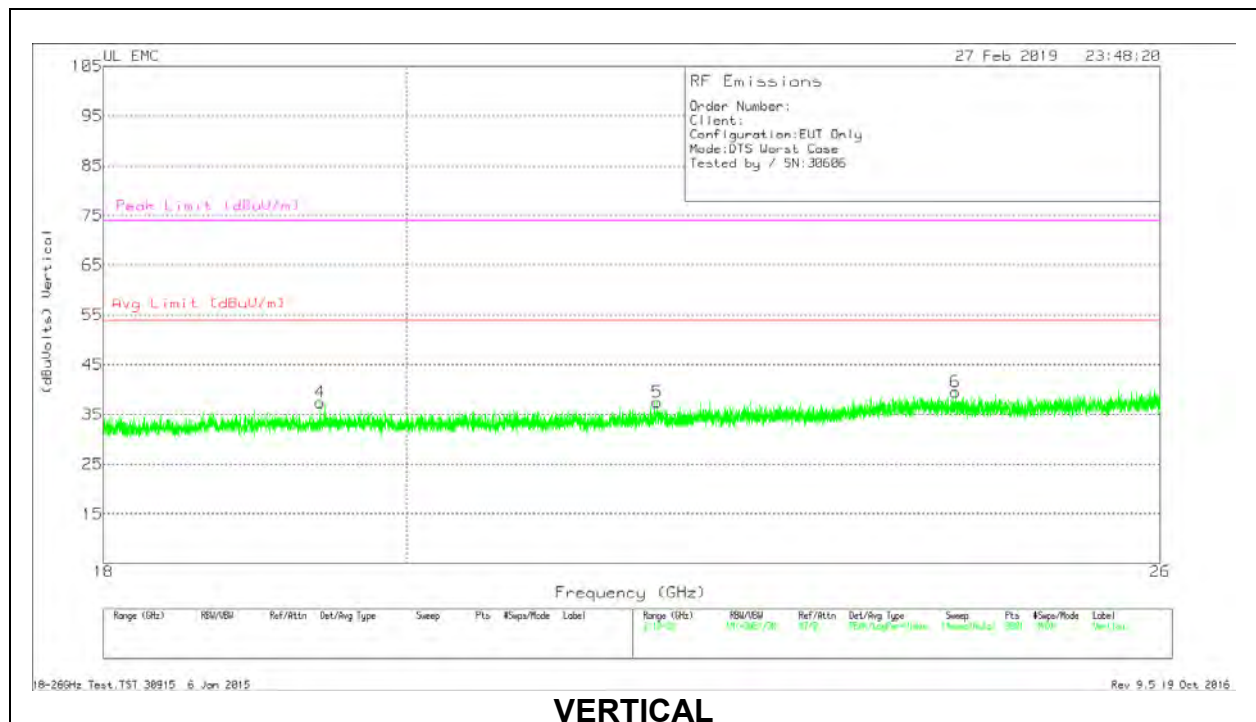
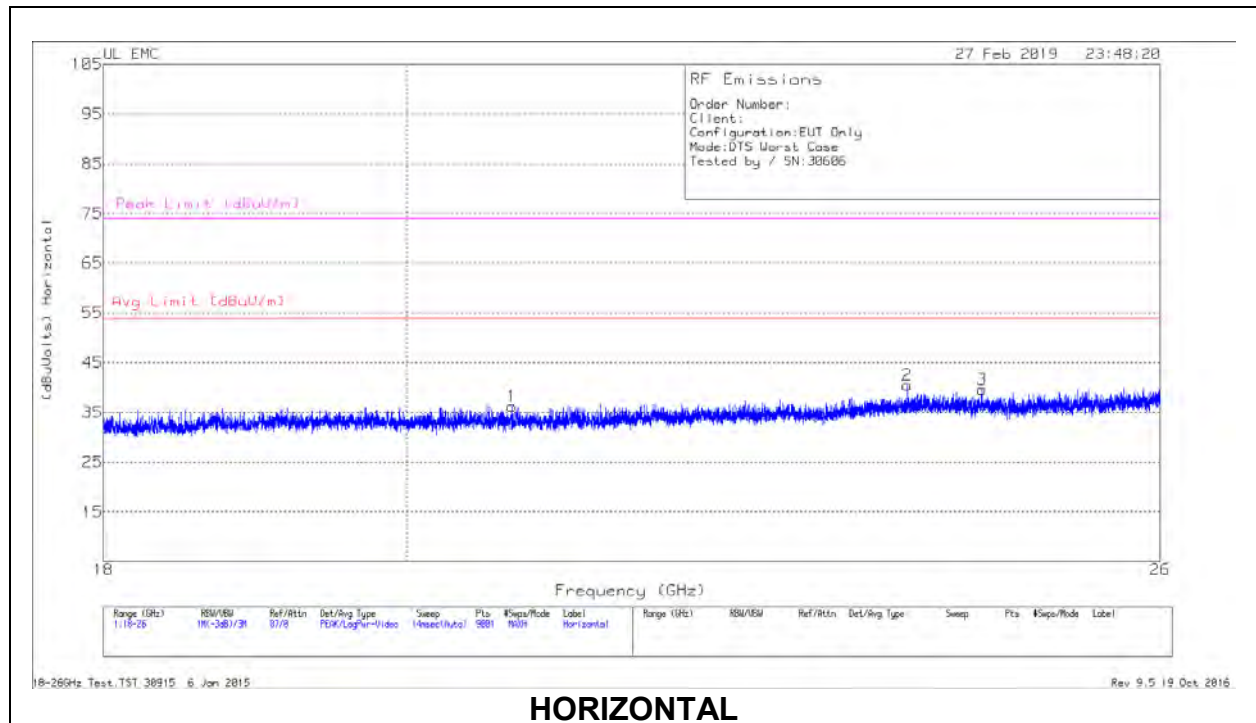
Below 1GHz DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T122 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 241.0053	36.32	Pk	17.5	-29.4	24.42	46.02	-21.6	0-360	101	H
5	* 279.0103	30.78	Pk	19.2	-29.2	20.78	46.02	-25.24	0-360	199	V
1	30.5526	29.22	Pk	26.6	-31.3	24.52	40	-15.48	0-360	399	H
2	32.4231	30.8	Pk	25.4	-31.3	24.9	40	-15.1	0-360	100	V
4	667.6608	30.1	Pk	25.6	-27.9	27.8	46.02	-18.22	0-360	399	H
6	706.5658	29.6	Pk	26.1	-27.7	28	46.02	-18.02	0-360	299	V

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

Pk - Peak detector

9.3. WORST CASE 18-26 GHz



18 – 26GHz DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T447 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	20.75	38.02	Pk	33	-25.3	-9.5	36.22	54	-17.78	74	-37.78
2	23.808	39.8	Pk	34.2	-24	-9.5	40.5	54	-13.5	74	-33.5
3	24.437	39.09	Pk	34.3	-24.3	-9.5	39.59	54	-14.41	74	-34.41
4	19.411	39.1	Pk	32.8	-25	-9.5	37.4	54	-16.6	74	-36.6
5	21.824	38.36	Pk	33.2	-24.6	-9.5	37.46	54	-16.54	74	-36.54
6	24.211	38.92	Pk	34.2	-24.1	-9.5	39.52	54	-14.48	74	-34.48

Pk - Peak detector

10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

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

* Decreases with the logarithm of the frequency.

TEST PROCEDURE

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

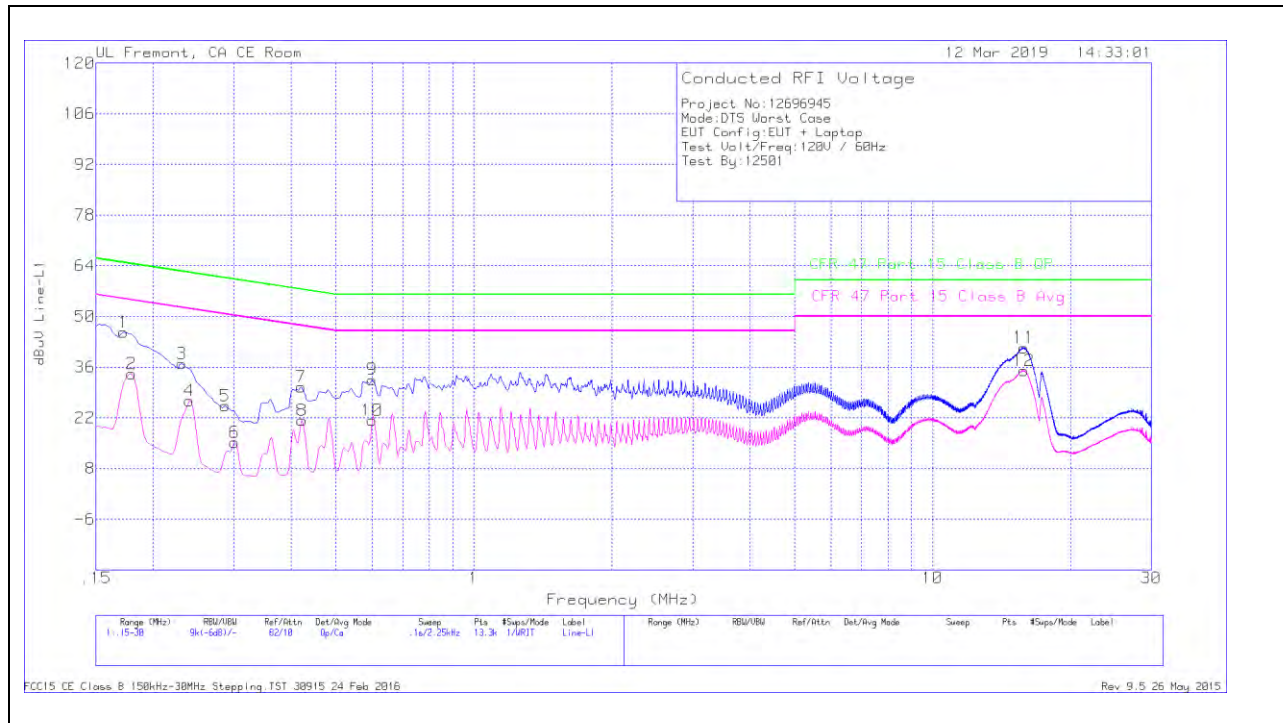
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

10.1.1. AC Power Line Host

LINE 1 RESULTS



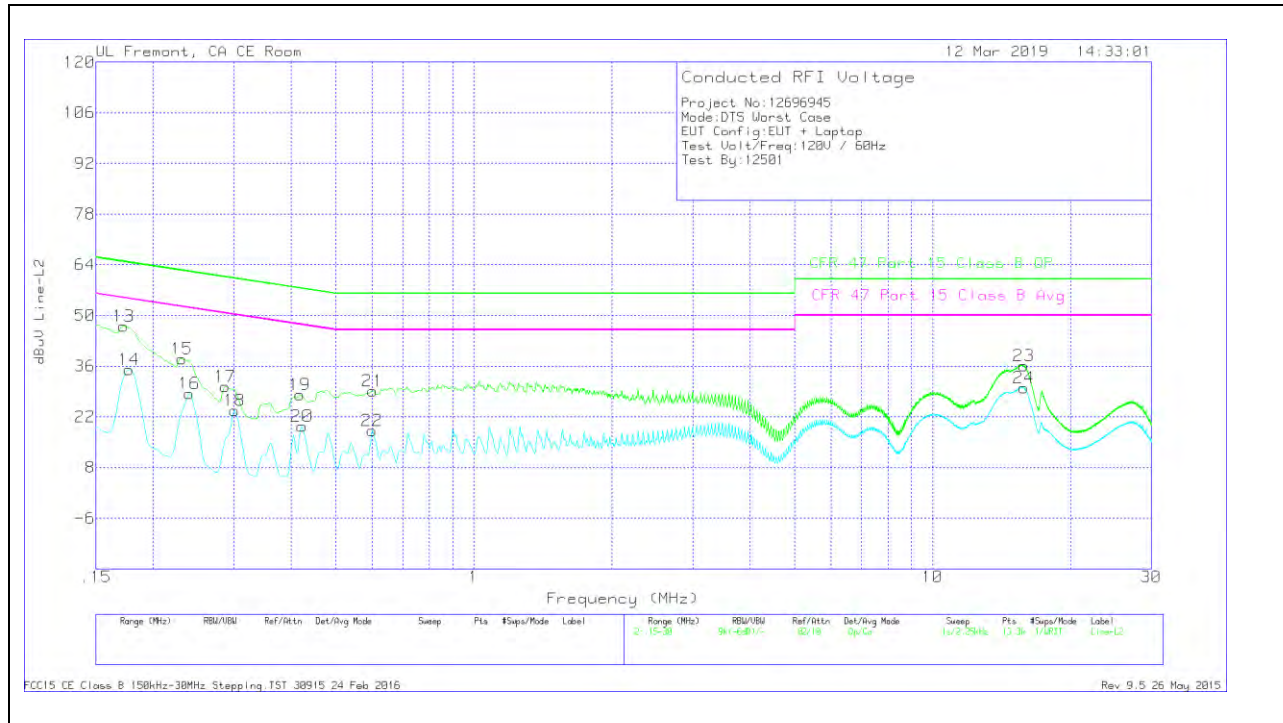
Range 1: Line-L1 15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.1725	35.6	Qp	0	0	10.1	45.7	64.84	-19.14	-	-
2	.17925	24.02	Ca	0	0	10.1	34.12	-	-	54.52	-20.4
3	.231	26.91	Qp	0	0	10.1	37.01	62.41	-25.4	-	-
4	.24	16.63	Ca	0	0	10.1	26.73	-	-	52.1	-25.37
5	.28725	15.15	Qp	0	0	10.1	25.25	60.6	-35.35	-	-
6	.30075	5.09	Ca	0	0	10.1	15.19	-	-	50.22	-35.03
7	.42	20.41	Qp	0	0	10.1	30.51	57.45	-26.94	-	-
8	.42225	11.29	Ca	0	0	10.1	21.39	-	-	47.4	-26.01
9	.6	22.43	Qp	0	0	10.1	32.53	56	-23.47	-	-
10	.6	11.19	Ca	0	0	10.1	21.29	-	-	46	-24.71
11	15.8122	30.69	Qp	.1	.3	10.3	41.39	60	-18.61	-	-
12	15.81	24.42	Ca	.1	.3	10.3	35.12	-	-	50	-14.88

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz

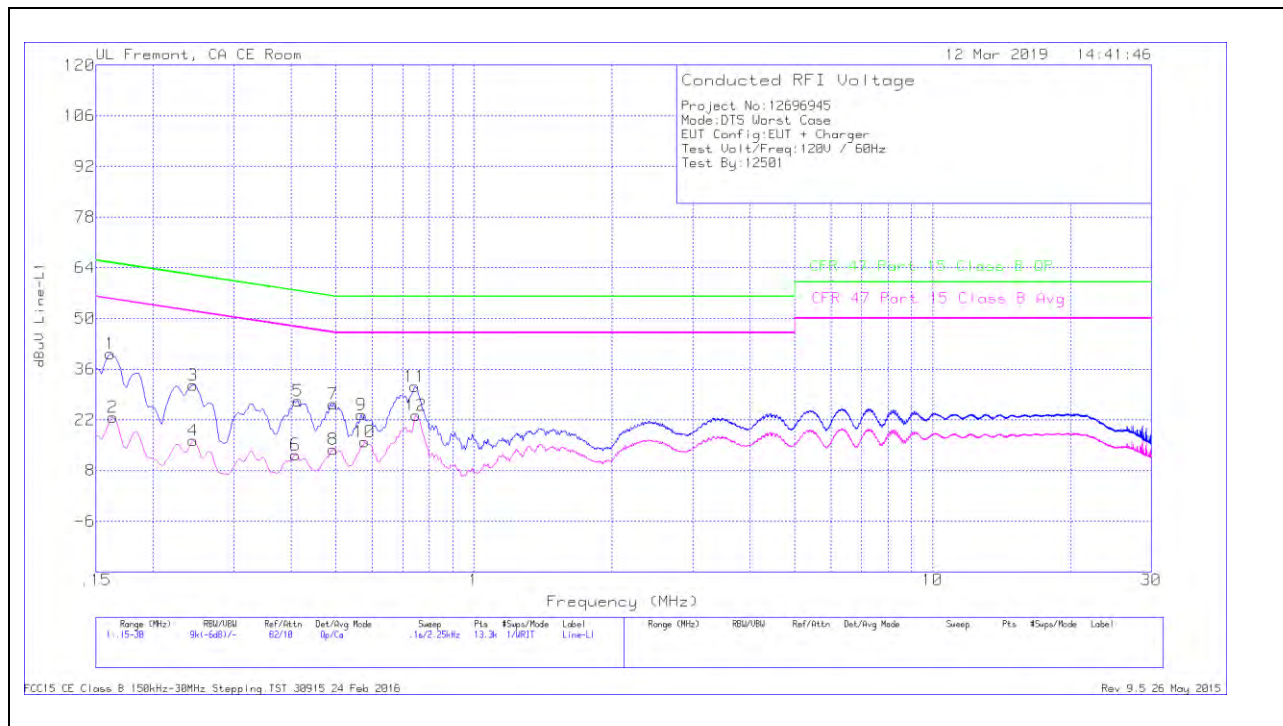
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
13	.1725	36.93	Qp	0	0	10.1	47.03	64.84	-17.81	-	-
14	.177	24.96	Ca	0	0	10.1	35.06	-	-	54.63	-19.57
15	.231	27.98	Qp	0	0	10.1	38.08	62.41	-24.33	-	-
16	.24	18.37	Ca	0	0	10.1	28.47	-	-	52.1	-23.63
17	.28725	20.22	Qp	0	0	10.1	30.32	60.6	-30.28	-	-
18	.30075	13.67	Ca	0	0	10.1	23.77	-	-	50.22	-26.45
19	.41775	18	Qp	0	0	10.1	28.1	57.49	-29.39	-	-
20	.42225	9.34	Ca	0	0	10.1	19.44	-	-	47.4	-27.96
21	.60225	19.11	Qp	0	0	10.1	29.21	56	-26.79	-	-
22	.6	8.1	Ca	0	0	10.1	18.2	-	-	46	-27.8
23	15.8032	25.45	Qp	.1	.3	10.3	36.15	60	-23.85	-	-
24	15.8077	19.36	Ca	.1	.3	10.3	30.06	-	-	50	-19.94

Qp - Quasi-Peak detector

Ca - CISPR average detection

10.1.2. AC Power Line Norm

LINE 1 RESULTS



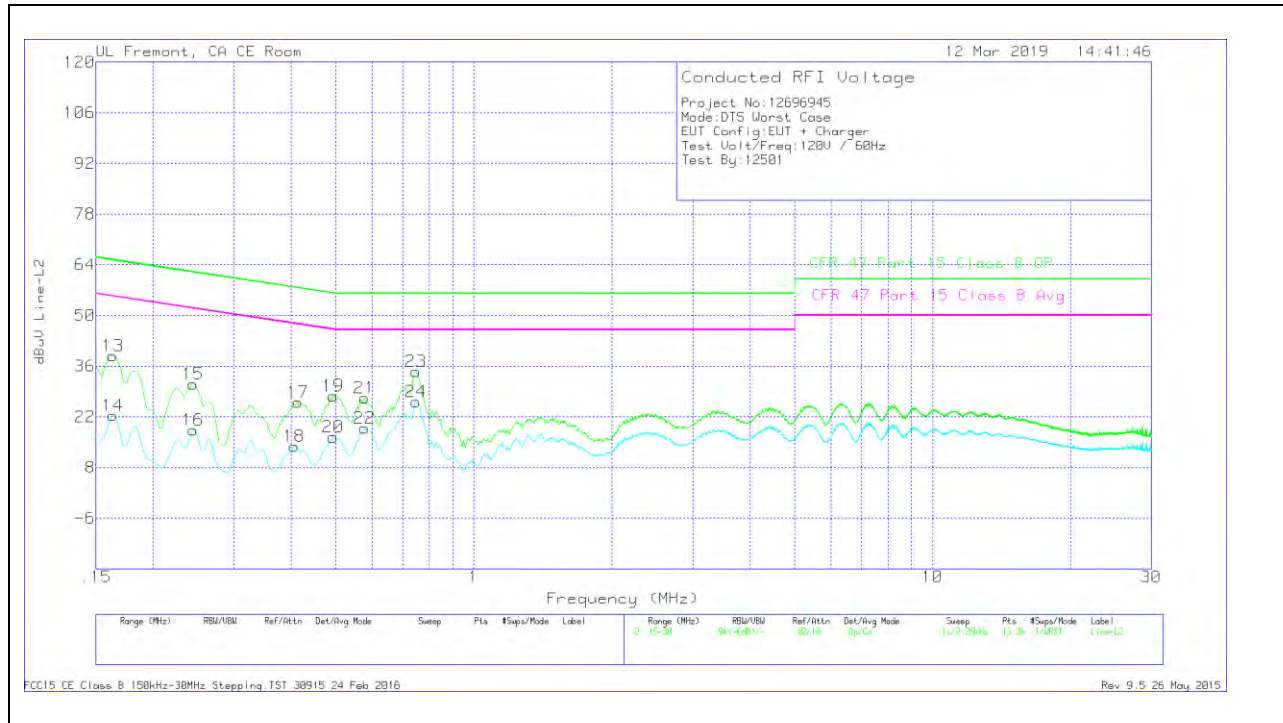
Range 1: Line-L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.16125	30.08	Qp	.1	0	10.1	40.28	65.4	-25.12	-	-
2	.1635	12.46	Ca	.1	0	10.1	22.66	-	-	55.28	-32.62
3	.2445	21.55	Qp	0	0	10.1	31.65	61.94	-30.29	-	-
4	.2445	6.18	Ca	0	0	10.1	16.28	-	-	51.94	-35.66
5	.41325	17.13	Qp	0	0	10.1	27.23	57.58	-30.35	-	-
6	.40875	2.26	Ca	0	0	10.1	12.36	-	-	47.67	-35.31
7	.49425	16.25	Qp	0	0	10.1	26.35	56.1	-29.75	-	-
8	.49425	3.74	Ca	0	0	10.1	13.84	-	-	46.1	-32.26
9	.5685	13.26	Qp	0	0	10.1	23.36	56	-32.64	-	-
10	.5775	5.77	Ca	0	0	10.1	15.87	-	-	46	-30.13
11	.744	21.07	Qp	0	0	10.1	31.17	56	-24.83	-	-
12	.7485	13.12	Ca	0	0	10.1	23.22	-	-	46	-22.78

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
13	.1635	28.71	Qp	.1	0	10.1	38.91	65.28	-26.37	-	-
14	.1635	12.24	Ca	.1	0	10.1	22.44	-	-	55.28	-32.84
15	.2445	20.96	Qp	0	0	10.1	31.06	61.94	-30.88	-	-
16	.2445	8.27	Ca	0	0	10.1	18.37	-	-	51.94	-33.57
17	.41325	15.84	Qp	0	0	10.1	25.94	57.58	-31.64	-	-
18	.4065	3.76	Ca	0	0	10.1	13.86	-	-	47.72	-33.86
19	.49425	17.73	Qp	0	0	10.1	27.83	56.1	-28.27	-	-
20	.49425	6.27	Ca	0	0	10.1	16.37	-	-	46.1	-29.73
21	.5775	17.08	Qp	0	0	10.1	27.18	56	-28.82	-	-
22	.5775	8.86	Ca	0	0	10.1	18.96	-	-	46	-27.04
23	.7485	24.43	Qp	0	0	10.1	34.53	56	-21.47	-	-
24	.7485	16.12	Ca	0	0	10.1	26.22	-	-	46	-19.78

Qp - Quasi-Peak detector

Ca - CISPR average detection

11. SETUP PHOTOS

Please refer to 12696945-EP1V1 for setup photos

END OF TEST REPORT