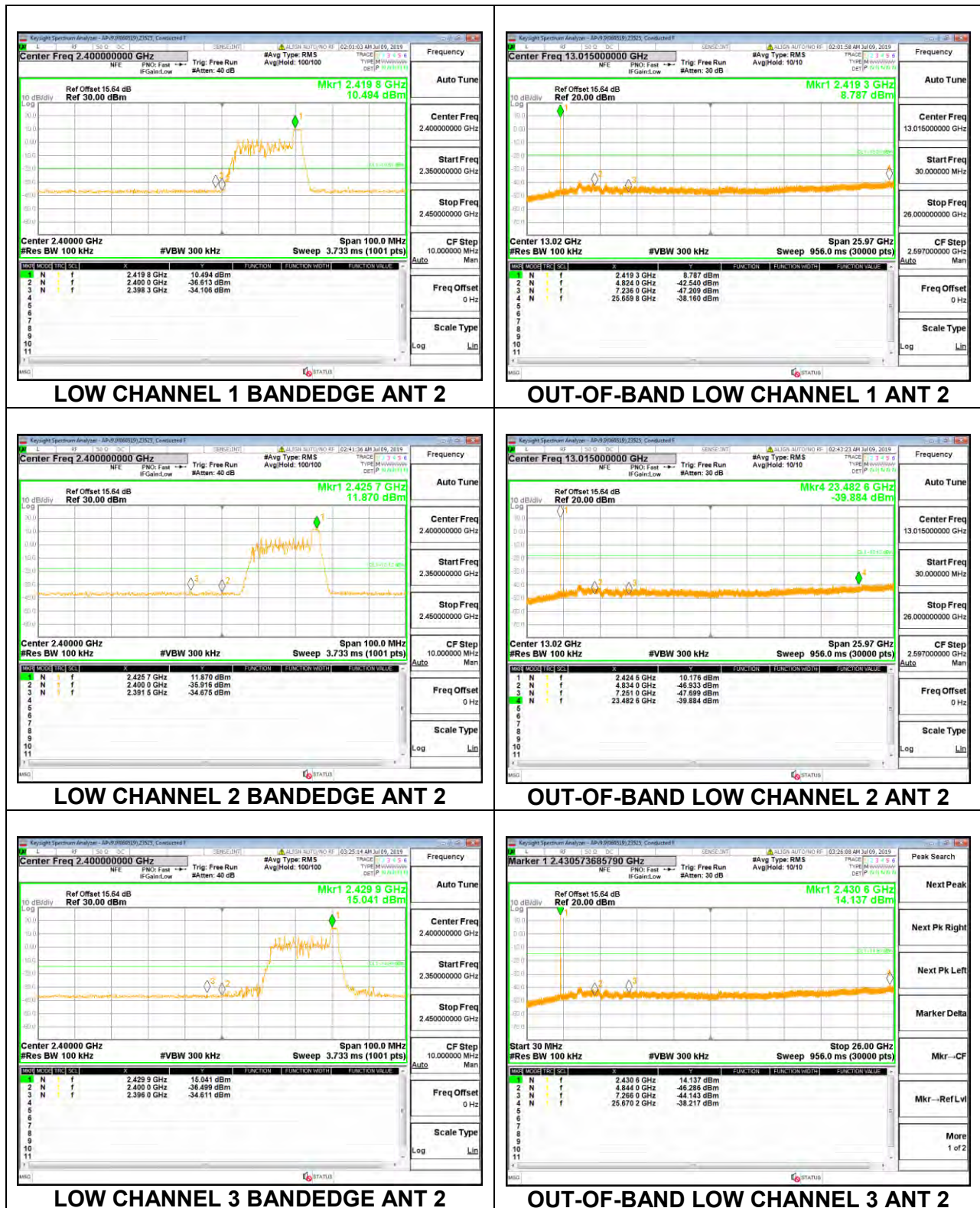
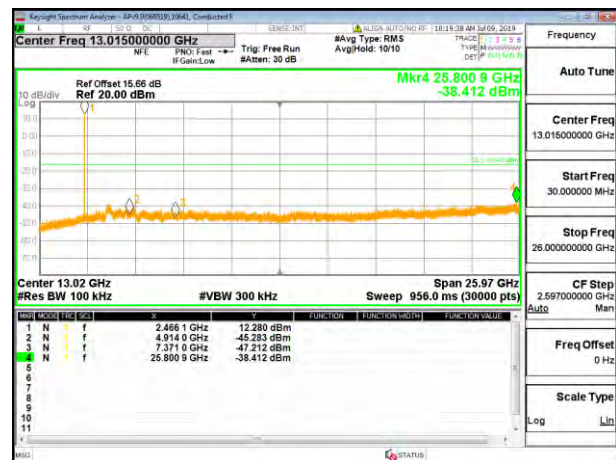
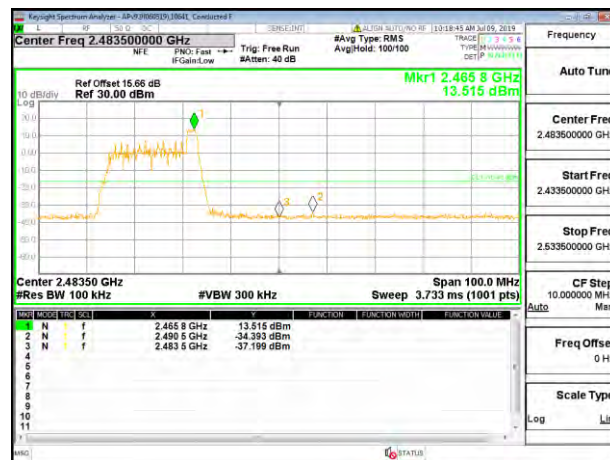
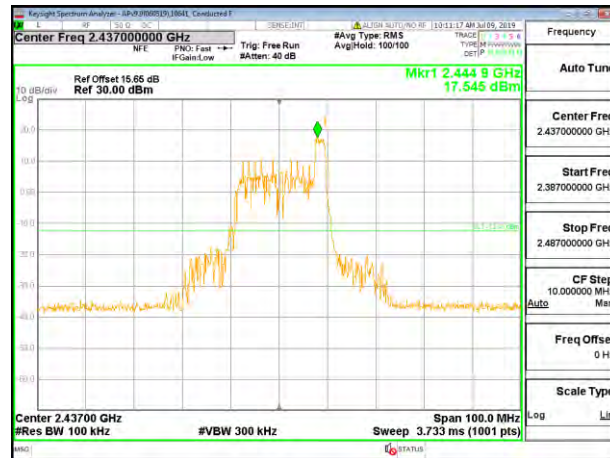
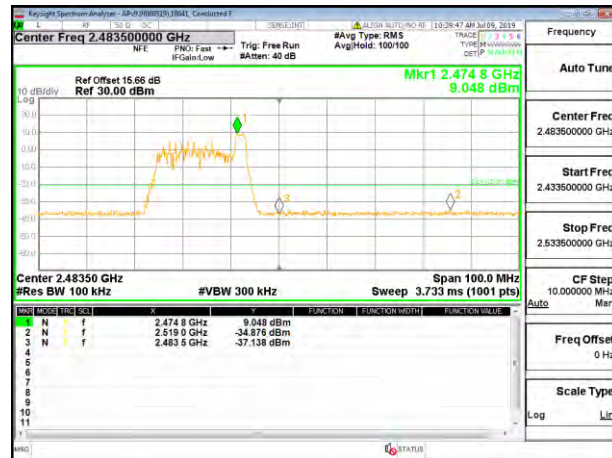


Antenna 2 + Antenna 5 2TX MODE: 26-Tones, RU Index 8





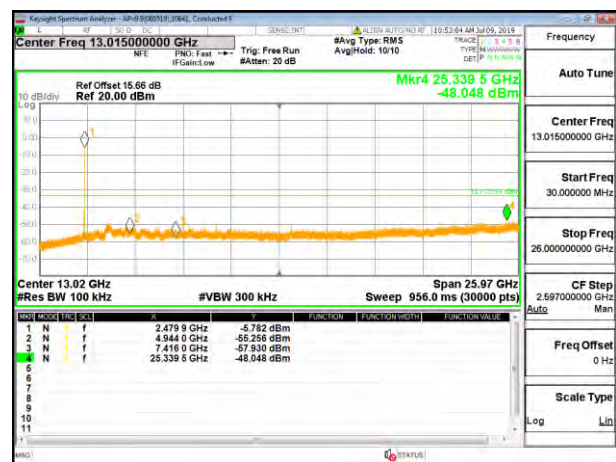
HIGH CHANNEL 12 BANDEDGE ANT 2



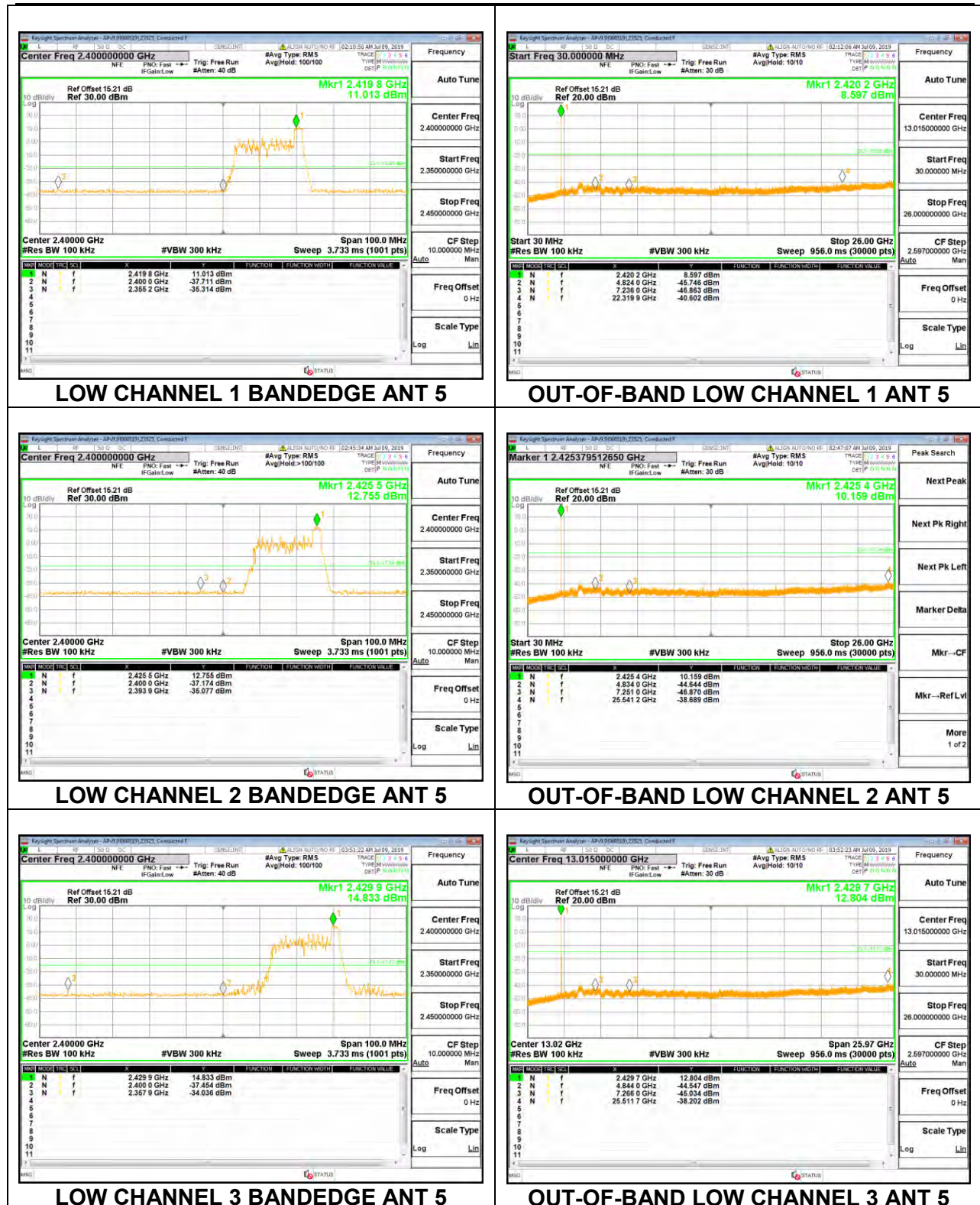
OUT-OF-BAND HIGH CHANNEL 12 ANT 2

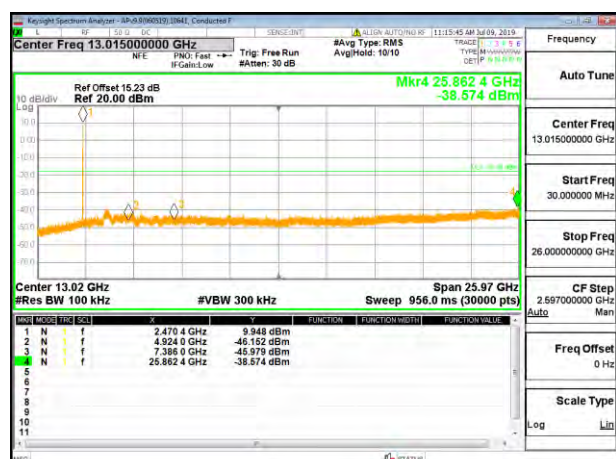
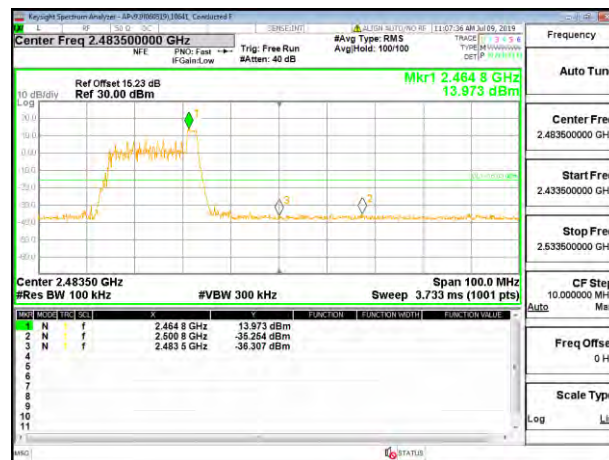


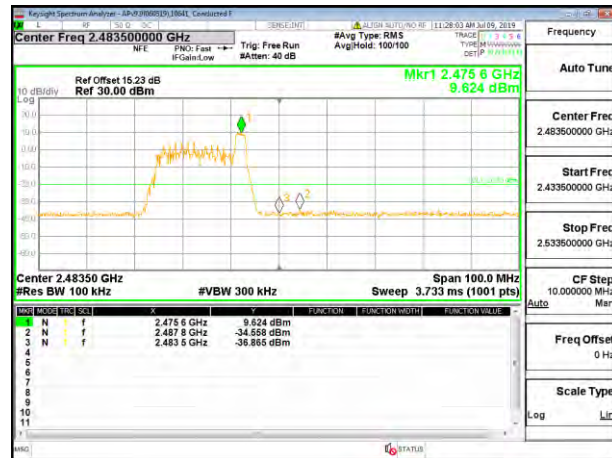
HIGH CHANNEL 13 BANDEDGE ANT 2



OUT-OF-BAND HIGH CHANNEL 13 ANT 2



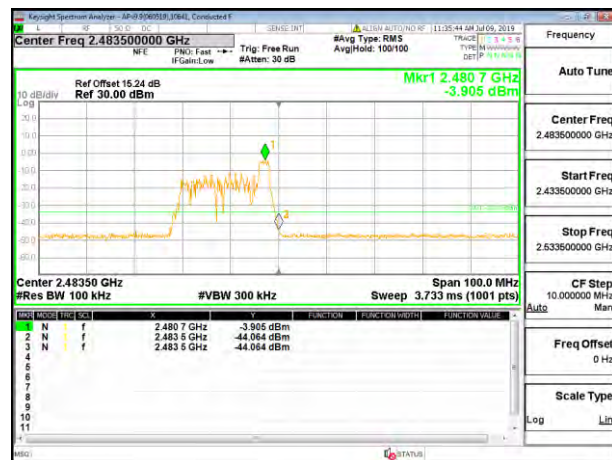




HIGH CHANNEL 12 BANDEDGE ANT 5



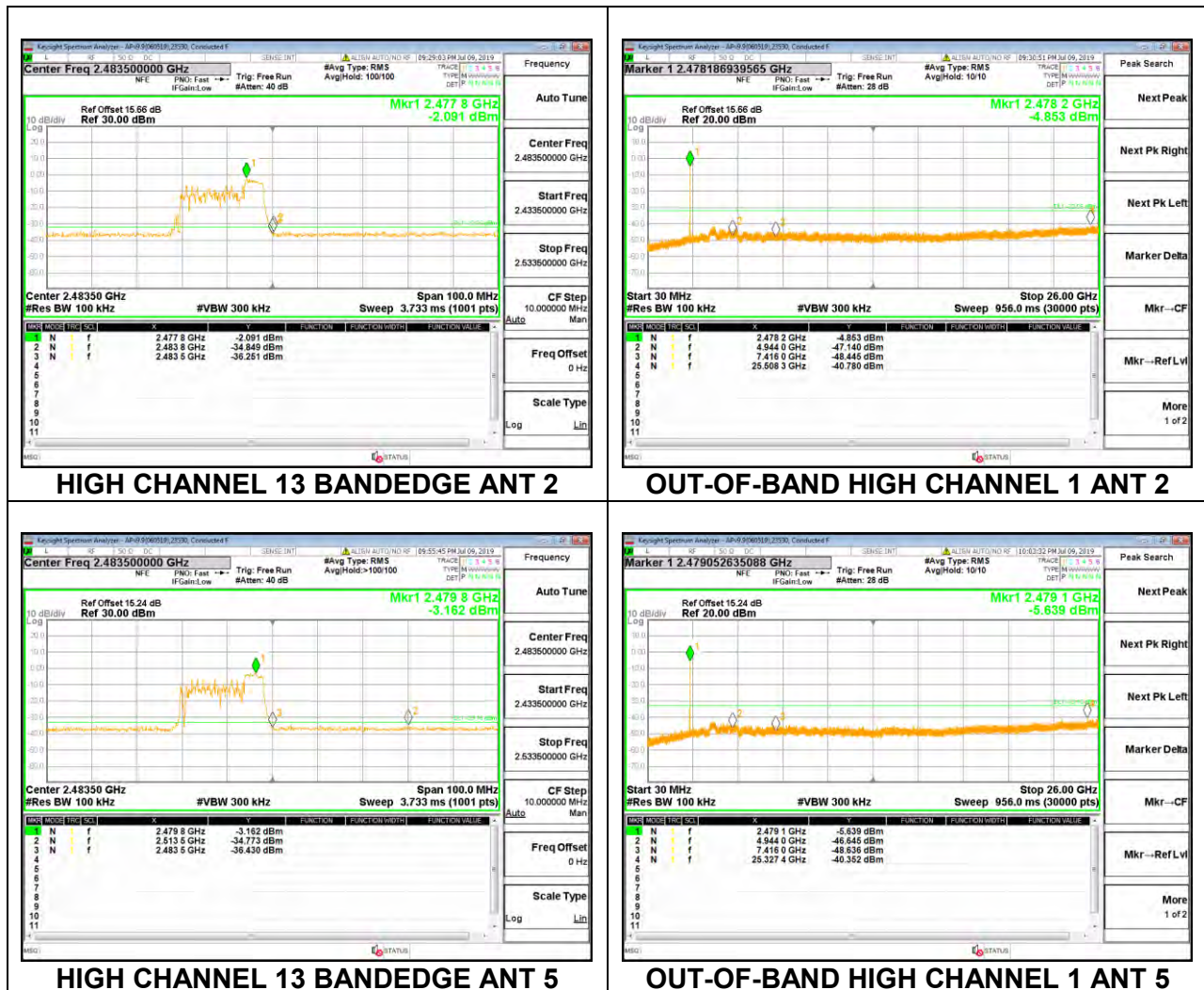
OUT-OF-BAND HIGH CHANNEL 12 ANT 5

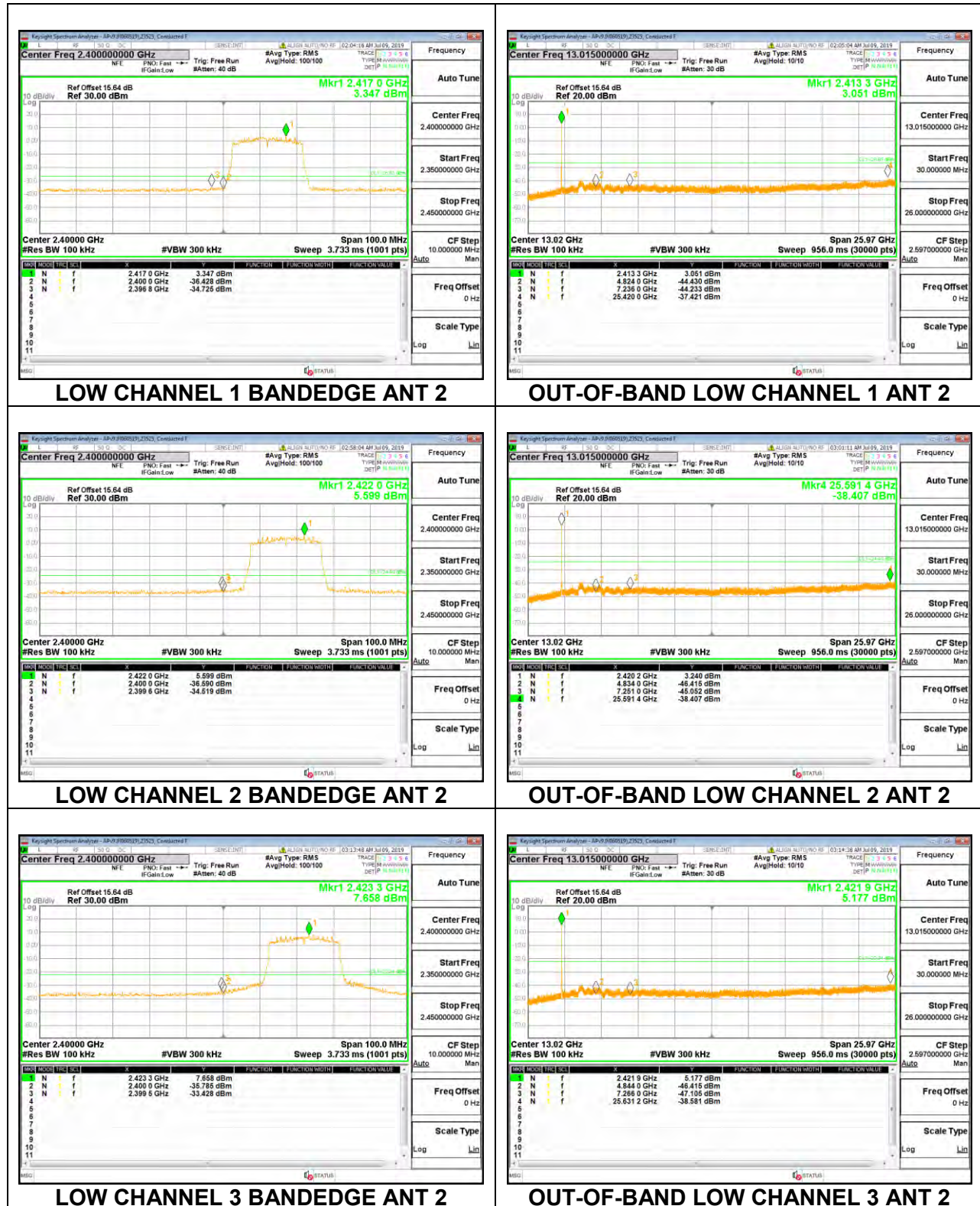


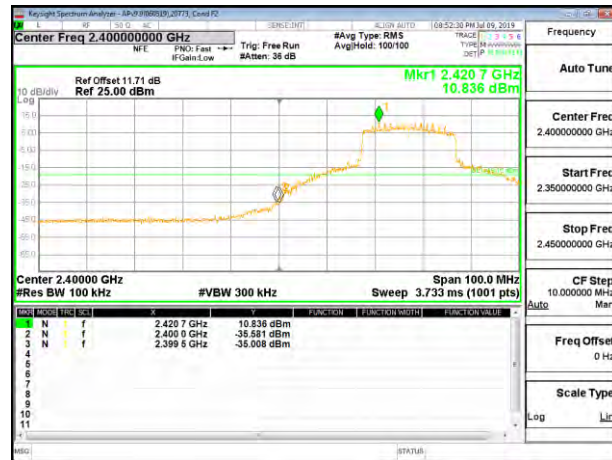
HIGH CHANNEL 13 BANDEDGE ANT 5



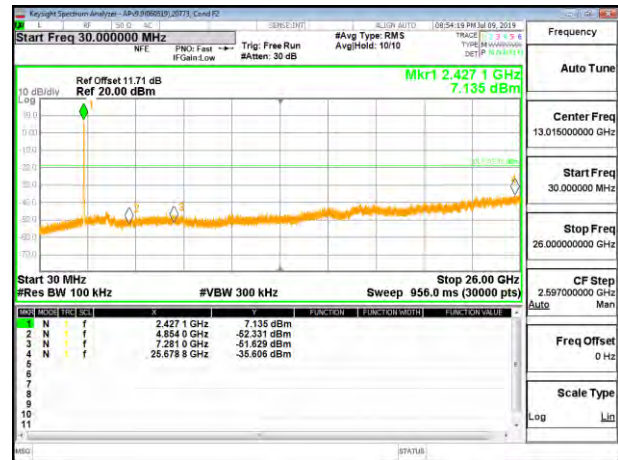
OUT-OF-BAND HIGH CHANNEL 13 ANT 5

Antenna 2 + Antenna 5 2TX MODE: 52-Tones, RU Index 40

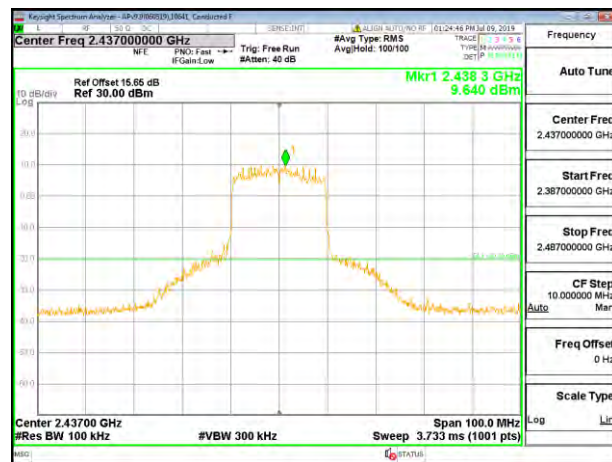
Antenna 2 + Antenna 5 2TX MODE: 242-Tones, RU Index 61



LOW CHANNEL 4 BANDEDGE ANT 2



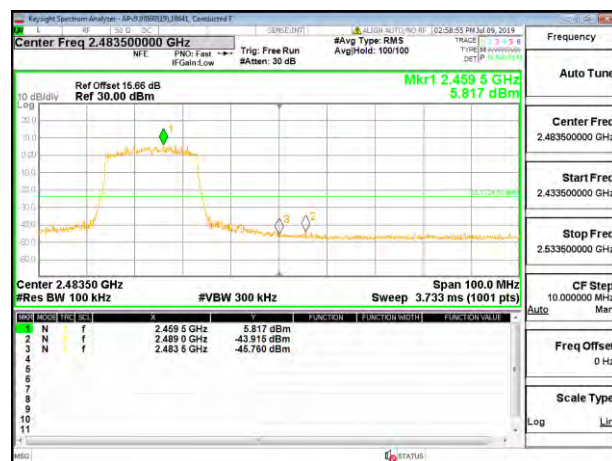
OUT-OF-BAND LOW CHANNEL 4 ANT 2



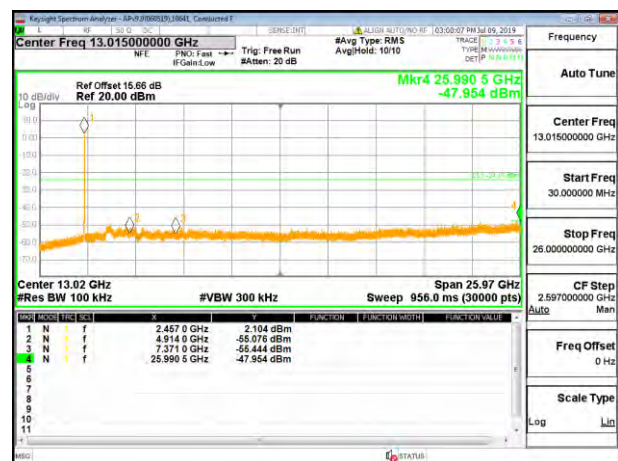
IN-BAND REFERENCE LEVEL ANT 2



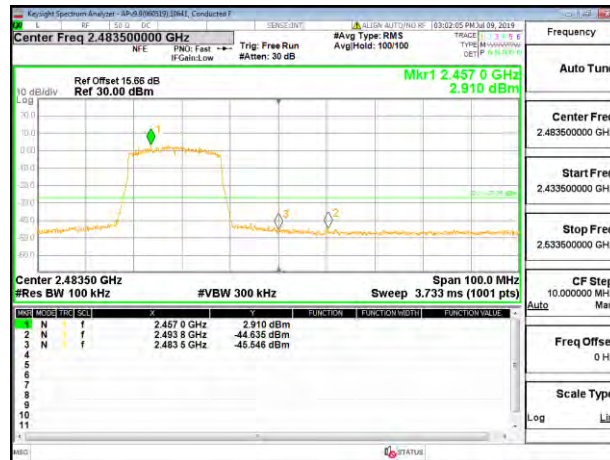
OUT-OF-BAND MID CHANNEL ANT 2



HIGH CHANNEL 10 BANDEDGE ANT 2



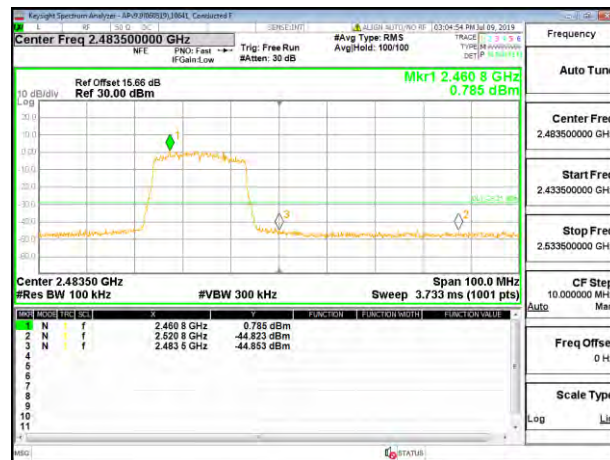
OUT-OF-BAND HIGH CHANNEL 10 ANT 2



HIGH CHANNEL 11 BANDEDGE ANT 2



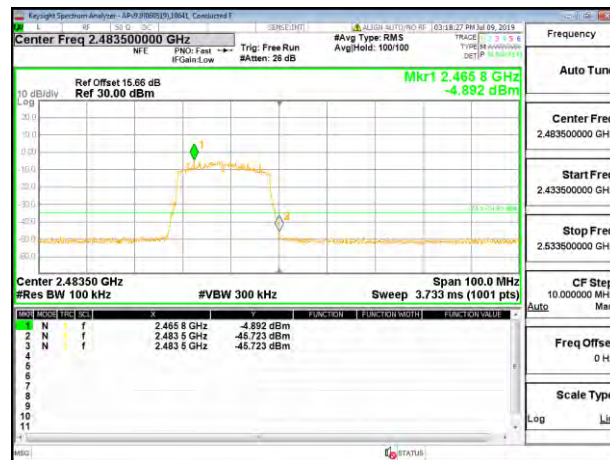
OUT-OF-BAND HIGH CHANNEL 11 ANT 2



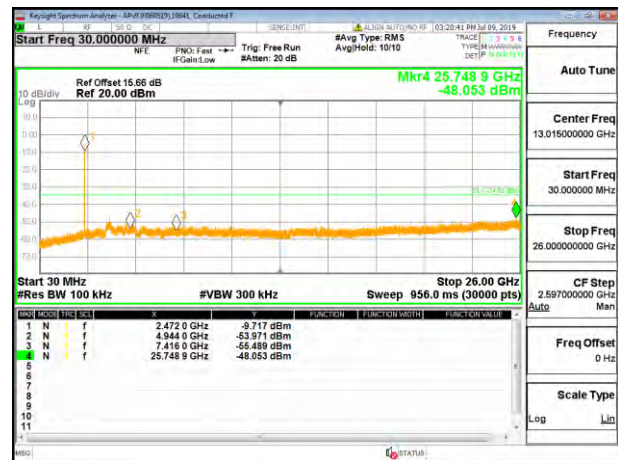
HIGH CHANNEL 12 BANDEDGE ANT 2



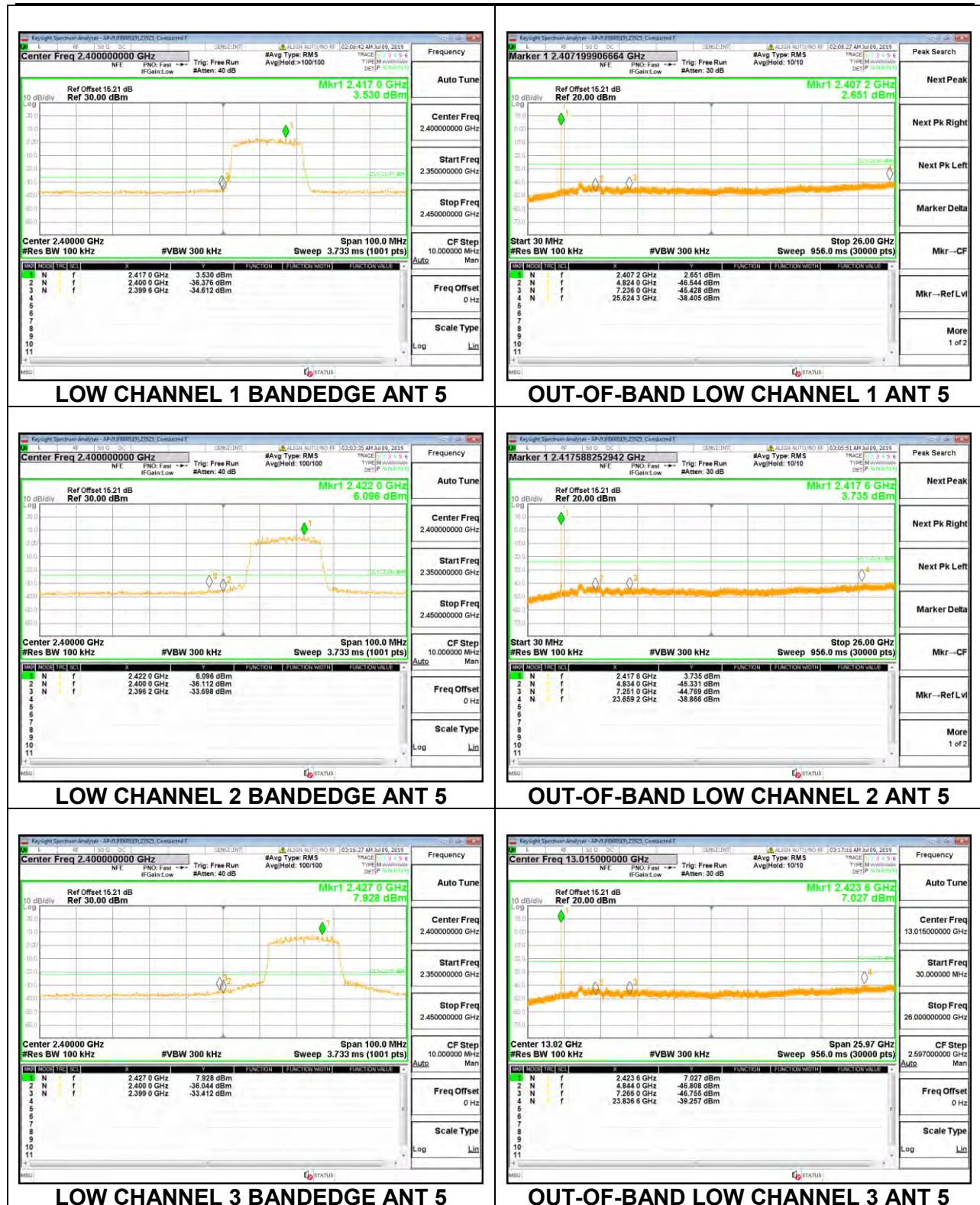
OUT-OF-BAND HIGH CHANNEL 12 ANT 2

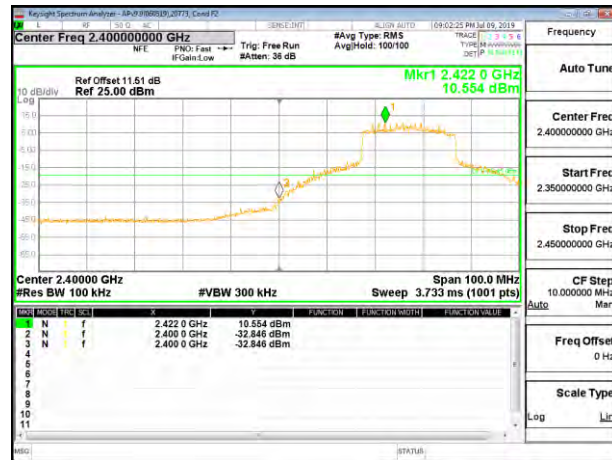


HIGH CHANNEL 13 BANDEDGE ANT 2

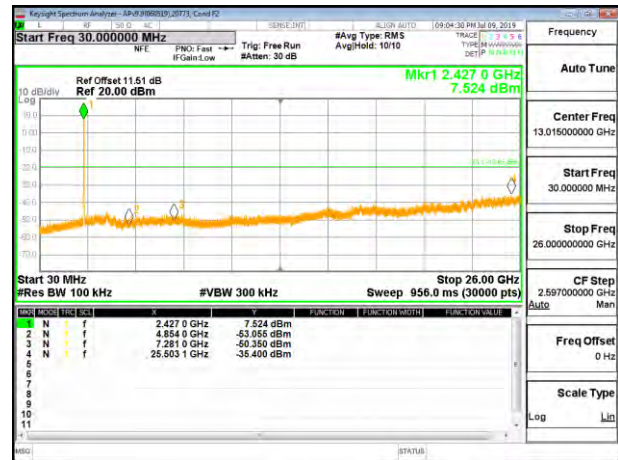


OUT-OF-BAND HIGH CHANNEL 13 ANT 2

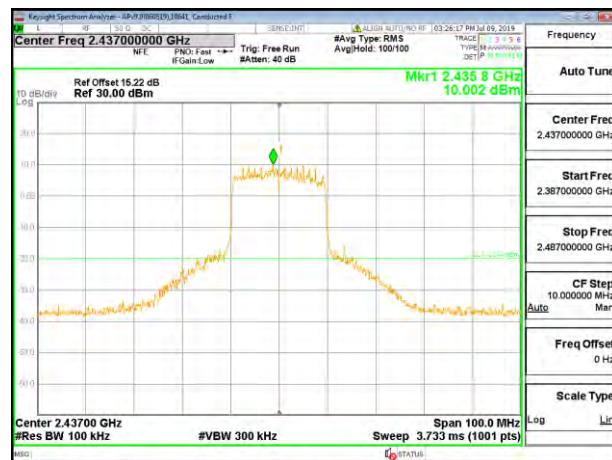




LOW CHANNEL 4 BANDEDGE ANT 5



OUT-OF-BAND LOW CHANNEL 4 ANT 5



IN-BAND REFERENCE LEVEL ANT 5



OUT-OF-BAND MID CHANNEL ANT 5



HIGH CHANNEL 10 BANDEDGE ANT 5



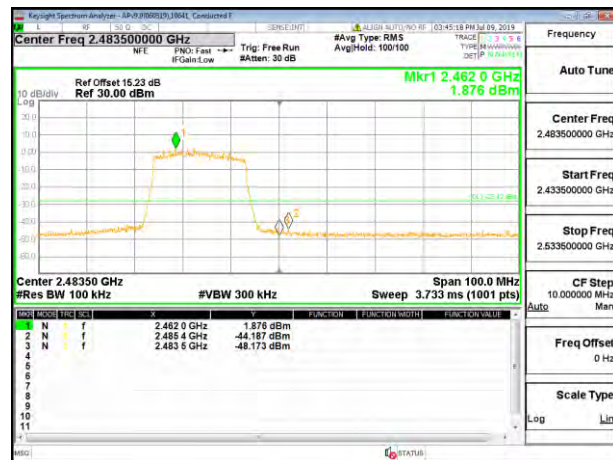
OUT-OF-BAND HIGH CHANNEL 10 ANT 5



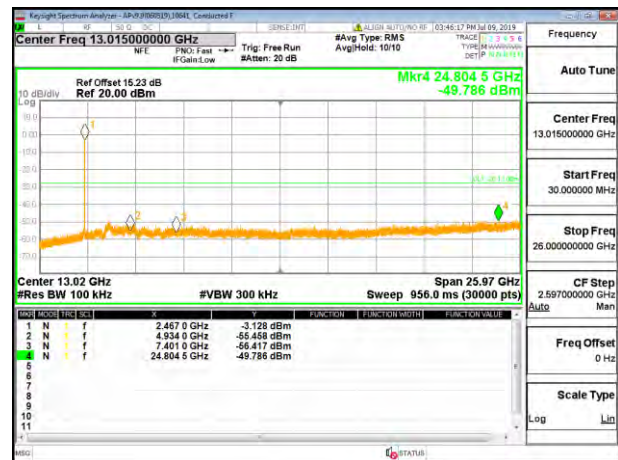
HIGH CHANNEL 11 BANDEDGE ANT 5



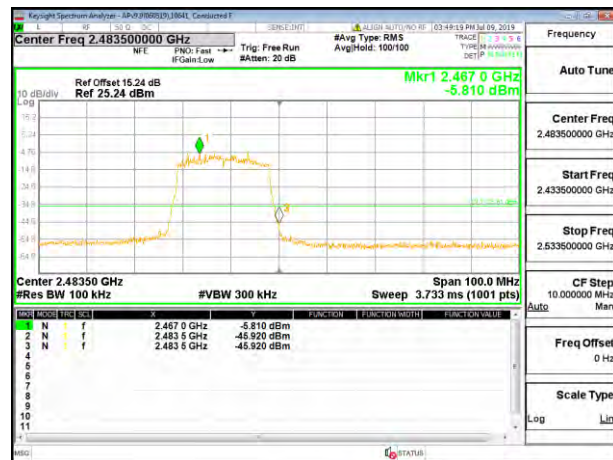
OUT-OF-BAND HIGH CHANNEL 11 ANT 5



HIGH CHANNEL 12 BANDEDGE ANT 5



OUT-OF-BAND HIGH CHANNEL 12 ANT 5



HIGH CHANNEL 13 BANDEDGE ANT 5



OUT-OF-BAND HIGH CHANNEL 13 ANT 5

9. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209

RSS-GEN, Section 8.9 and 8.10

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	2400/F(kHz) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

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

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

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

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

The spectrum from 1 GHz to 18 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band. Below 1GHz and above 18GHz emissions, the channel with the highest output power was tested.

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

KDB 414788 Open Field Site(OFS) and Chamber Correlation Justification

Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

OFS and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

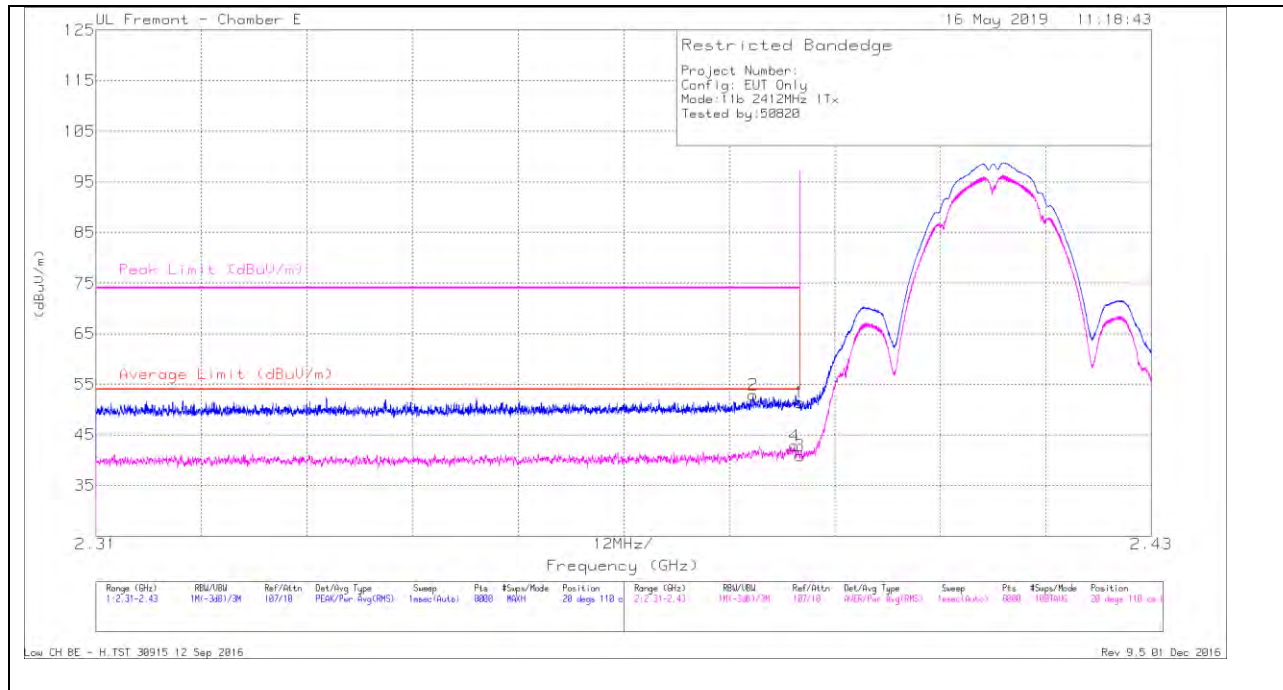
9.1. TRANSMITTER ABOVE 1 GHz

9.1.1. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND

1TX Antenna 2 MODE

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	45.29	Pk	32.3	-26.2	51.39	-	-	74	-22.61	20	110	H
2	* 2.385	46.9	Pk	32.3	-26.3	52.9	-	-	74	-21.1	20	110	H
3	* 2.39	34.8	RMS	32.3	-26.2	40.9	54	-13.1	-	-	20	110	H
4	* 2.389	36.79	RMS	32.3	-26.2	42.89	54	-11.11	-	-	20	110	H

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

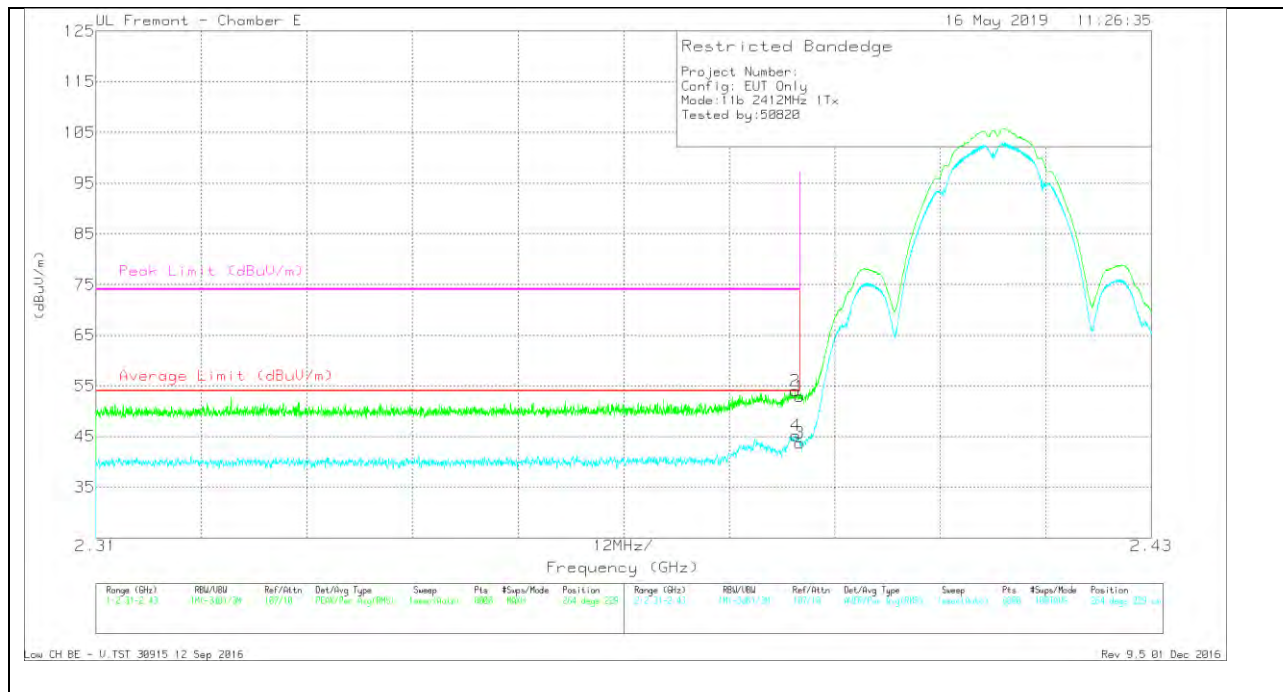
Pk - Peak detector

RMS - RMS detection

Low CH BE - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	46.75	Pk	32.3	-26.2	52.85	-	-	74	-21.15	264	229	V
2	* 2.39	47.9	Pk	32.3	-26.2	54	-	-	74	-20	264	229	V
3	* 2.39	37.63	RMS	32.3	-26.2	43.73	54	-10.27	-	-	264	229	V
4	* 2.39	39.14	RMS	32.3	-26.2	45.24	54	-8.76	-	-	264	229	V

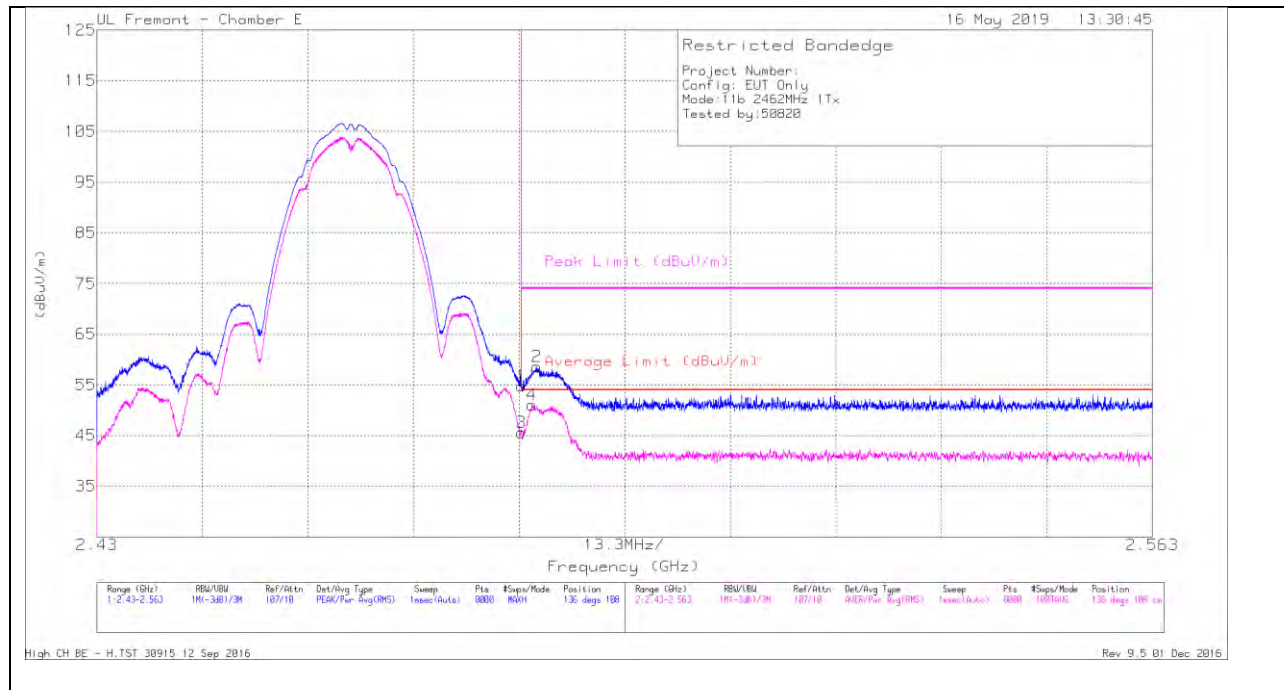
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

Low CH BE - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

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

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	48.22	Pk	32.8	-26.3	54.72	-	-	74	-19.28	136	108	H
2	* 2.485	52.13	Pk	32.8	-26.3	58.63	-	-	74	-15.37	136	108	H
3	* 2.484	39.07	RMS	32.8	-26.3	45.57	54	-8.43	-	-	136	108	H
4	* 2.485	44.48	RMS	32.8	-26.3	50.98	54	-3.02	-	-	136	108	H

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

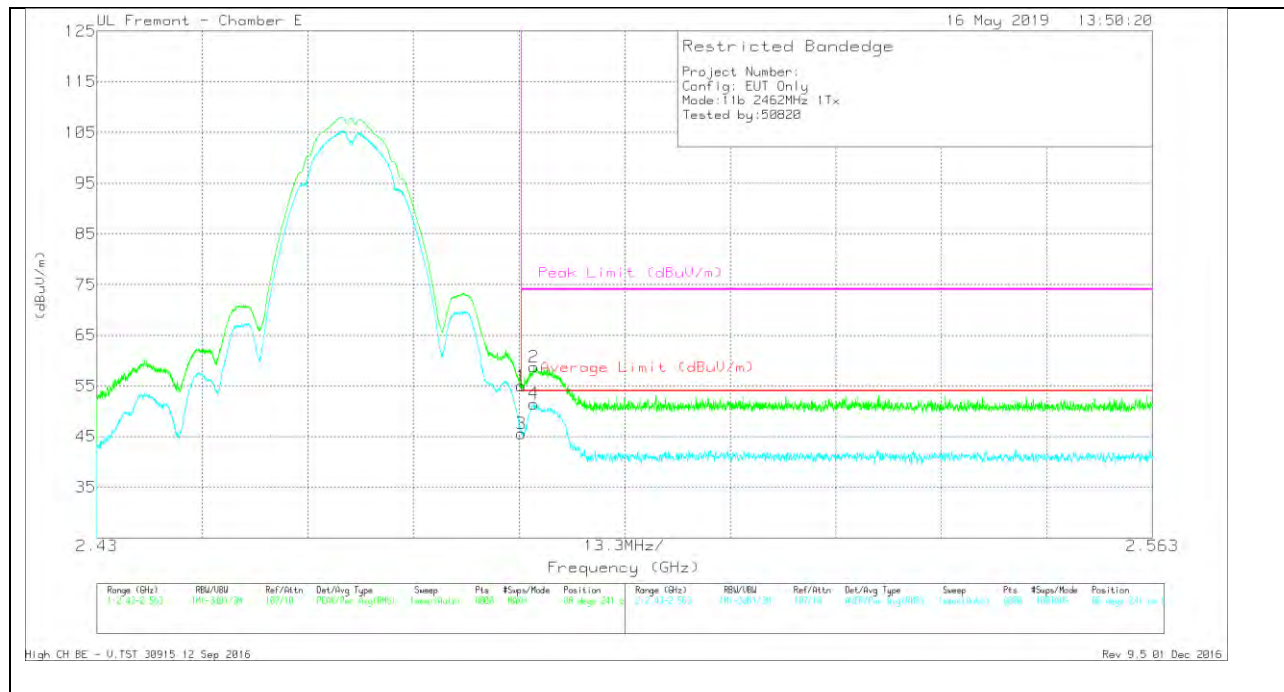
Pk - Peak detector

RMS - RMS detection

High CH BE - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	48.49	Pk	32.8	-26.3	54.99	-	-	74	-19.01	88	241	V
2	* 2.485	52.2	Pk	32.8	-26.3	58.7	-	-	74	-15.3	88	241	V
3	* 2.484	39.09	RMS	32.8	-26.3	45.59	54	-8.41	-	-	88	241	V
4	* 2.485	44.97	RMS	32.8	-26.3	51.47	54	-2.53	-	-	88	241	V

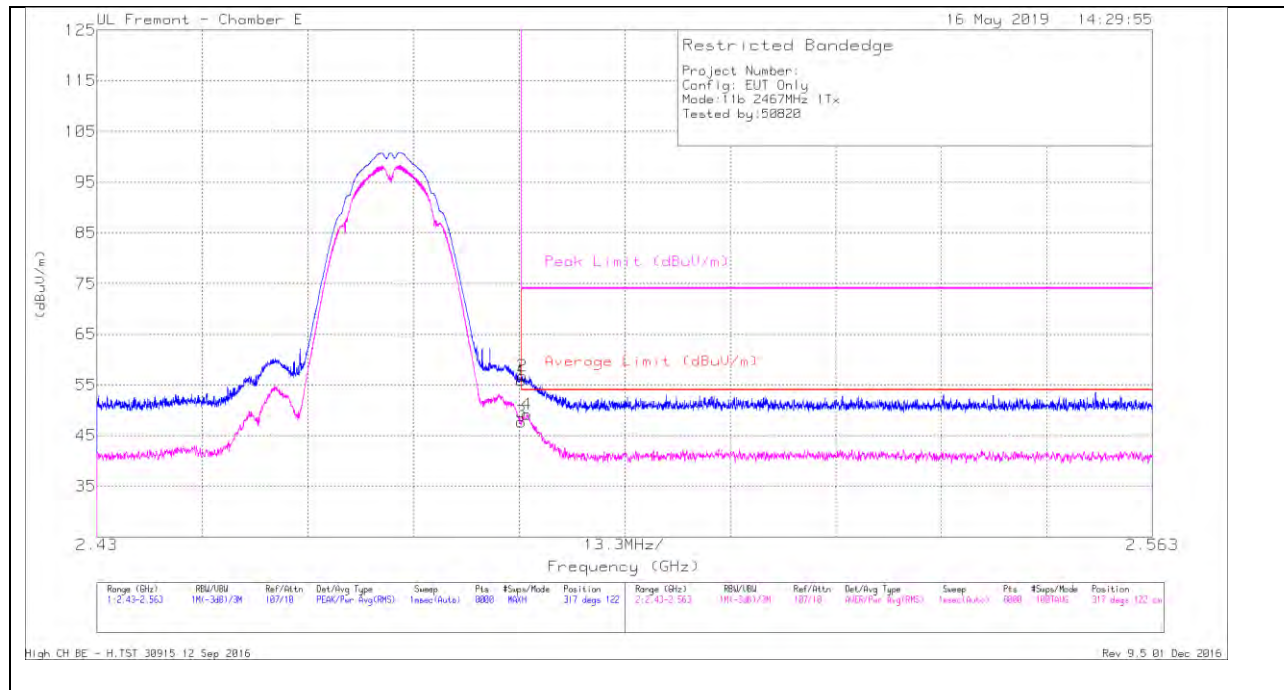
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

High CH BE - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

BANDEDGE (HIGH CHANNEL, CH 12)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	49.43	Pk	32.8	-26.3	55.93	-	-	74	-18.07	317	122	H
2	* 2.484	50.27	Pk	32.8	-26.3	56.77	-	-	74	-17.23	317	122	H
3	* 2.484	41.24	RMS	32.8	-26.3	47.74	54	-6.26	-	-	317	122	H
4	* 2.484	42.63	RMS	32.8	-26.3	49.13	54	-4.87	-	-	317	122	H

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

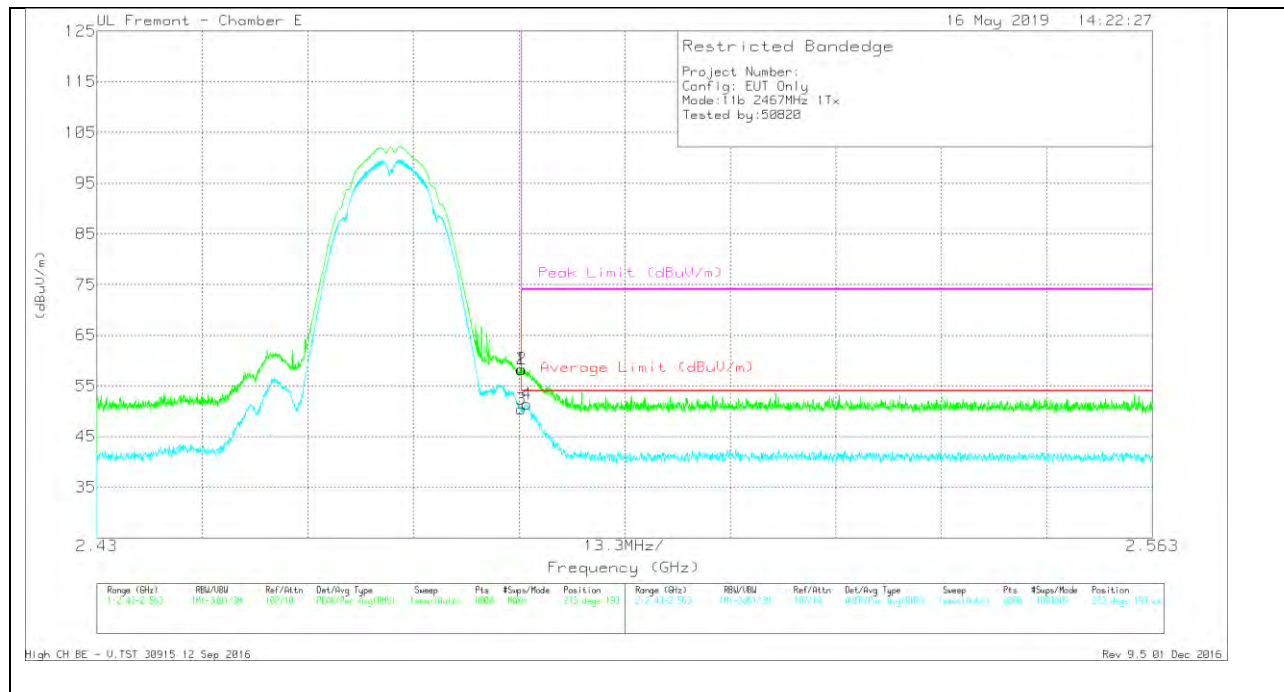
Pk - Peak detector

RMS - RMS detection

High CH BE - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	51.78	Pk	32.8	-26.3	58.28	-	-	74	-15.72	273	193	V
2	* 2.484	51.8	Pk	32.8	-26.3	58.3	-	-	74	-15.7	273	193	V
3	* 2.484	43.97	RMS	32.8	-26.3	50.47	54	-3.53	-	-	273	193	V
4	* 2.484	44.91	RMS	32.8	-26.3	51.41	54	-2.59	-	-	273	193	V

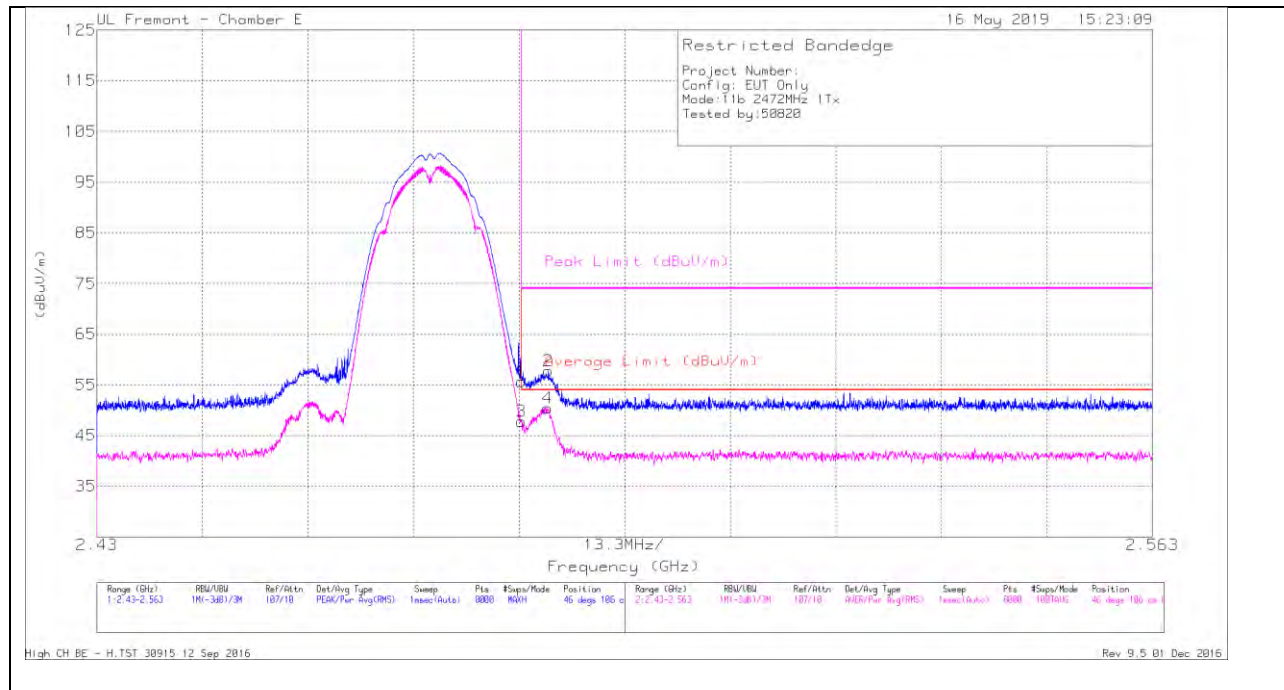
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

High CH BE - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

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

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	49.18	Pk	32.8	-26.3	55.68	-	-	74	-18.32	46	106	H
3	* 2.484	41.32	RMS	32.8	-26.3	47.82	54	-6.18	-	-	46	106	H
2	* 2.487	51.23	Pk	32.8	-26.3	57.73	-	-	74	-16.27	46	106	H
4	* 2.487	43.95	RMS	32.8	-26.3	50.45	54	-3.55	-	-	46	106	H

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

Pk - Peak detector

RMS - RMS detection

High CH BE - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

UL Fremont - Chamber E

16 May 2019 15:32:23

Restricted Bandedge

Project Number:
Config: EUT Only
Made: 11b 2472MHz 1Tx
Tested by: 58828

(dBuV/m)

Peak Limit (dBuV/m)

Average Limit (dBuV/m)

13.3MHz/
Frequency (GHz)

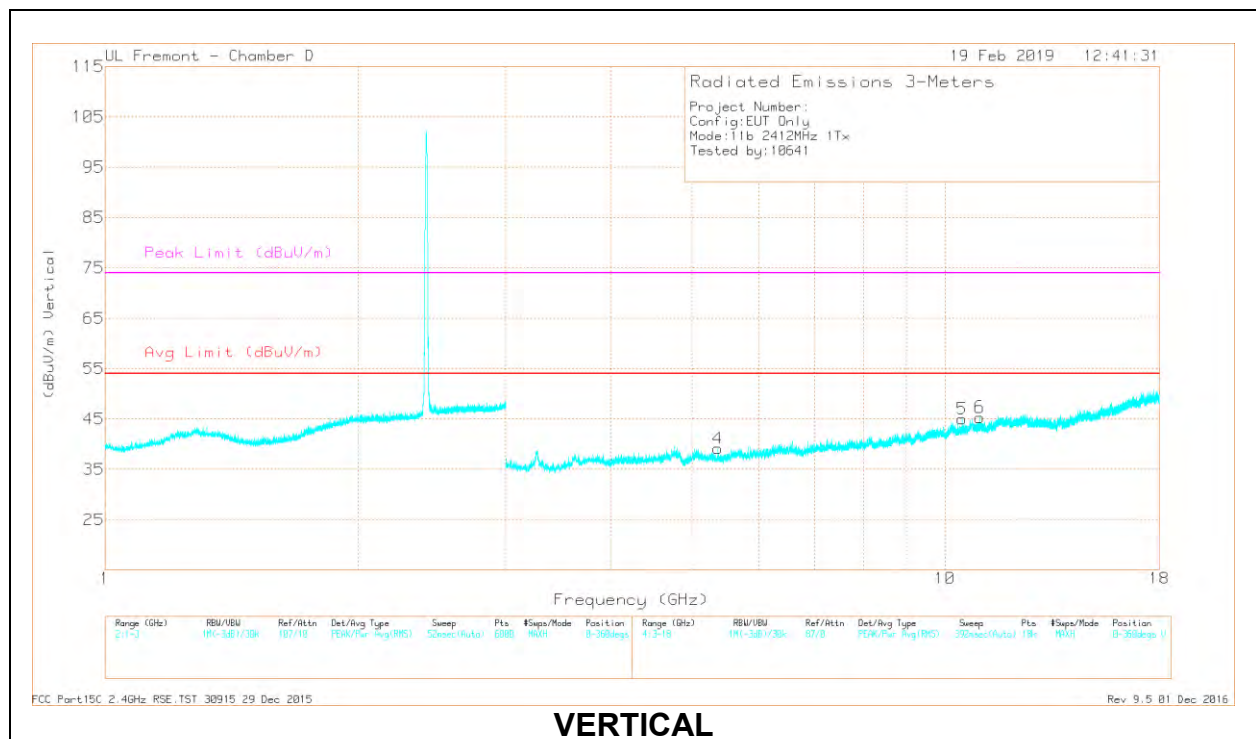
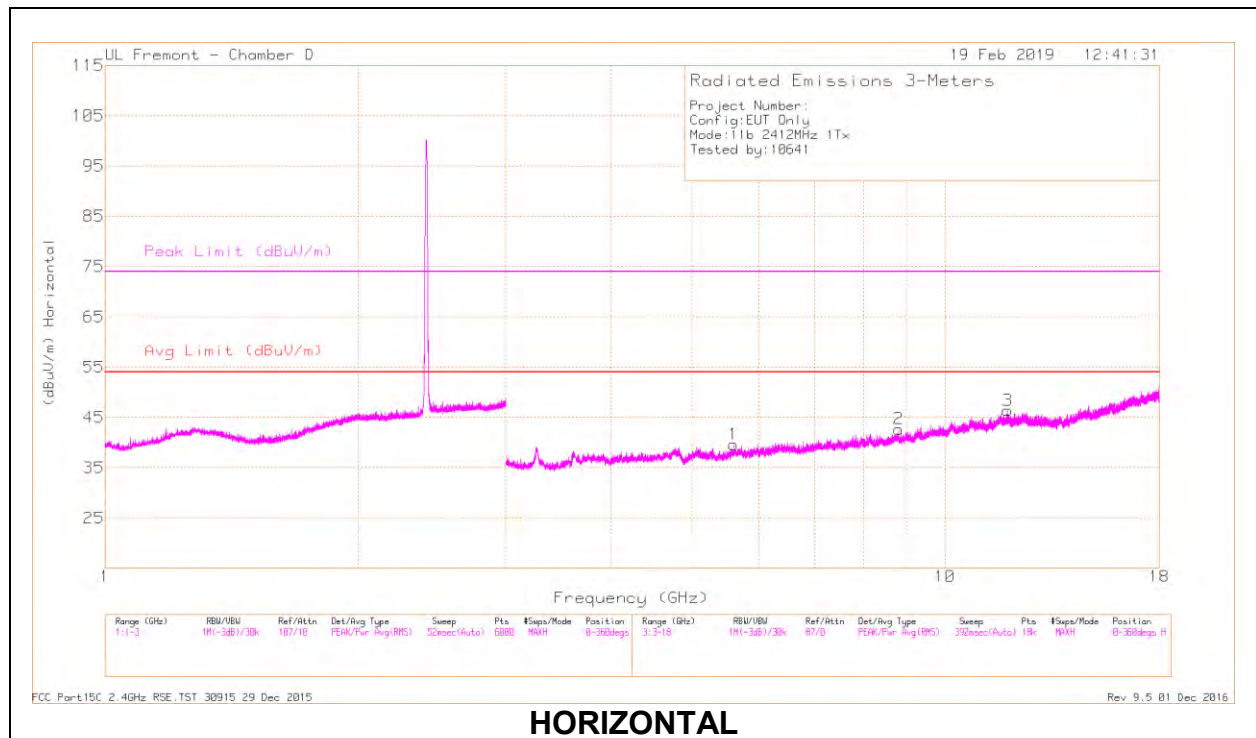
Range (GHz)	RBW/BBW	Ref/Att'n	Det/Av Type	Sweep	Pls	#Seps/Mode	Position	Range (GHz)	RBW/BBW	Ref/Att'n	Det/Av Type	Sweep	Pls	#Seps/Mode	Position
1.241-2.563	100-300/30	10/10	PCBW/Res Avg (RMS)	Fast/Normal	0000	64	4 deg 230 c	1.241-2.563	100-300/30	10/10	PCBW/Res Avg (RMS)	Fast/Normal	0000	64	4 deg 230 c

High CH BE - 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/Fitr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Dogs)	Height (cm)	Polarity
1	* 2.484	49.64	Pk	32.8	-26.3	56.14	-	-	74	-17.86	94	239	V
2	* 2.484	52.82	Pk	32.8	-26.3	59.32	-	-	74	-14.68	94	239	V
3	* 2.484	40.11	RMS	32.8	-26.3	46.61	54	-7.39	-	-	94	239	V
4	* 2.487	41.9	RMS	32.8	-26.3	48.4	54	-5.6	-	-	94	239	V

Rev 9.5 01 Dec 2016

HARMONICS AND SPURIOUS EMISSIONS**LOW CHANNEL, CH 1 RESULTS**

RADIATED EMISSIONS

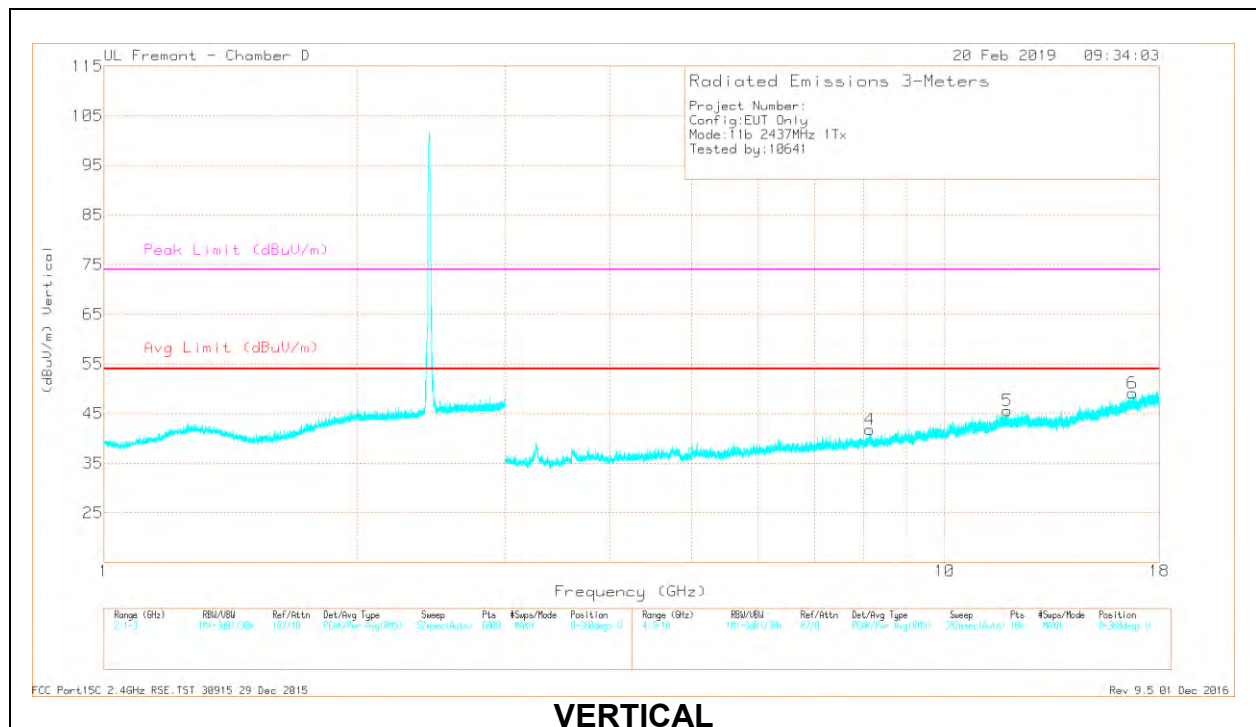
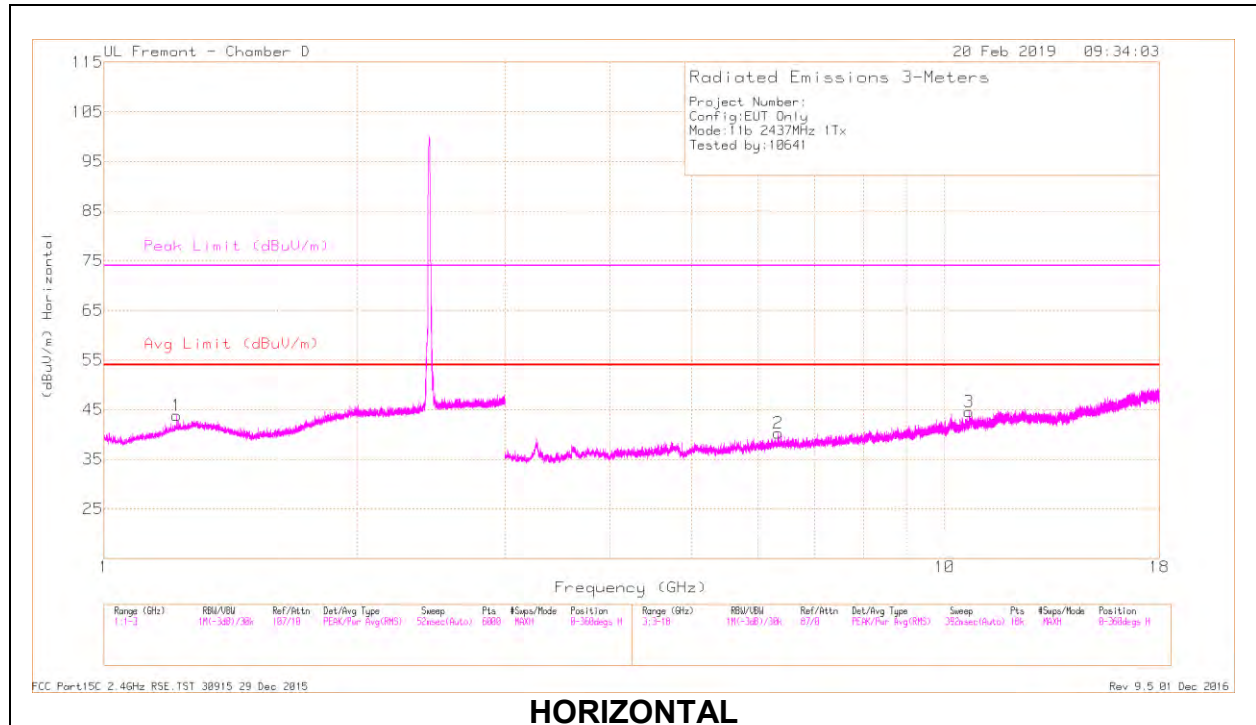
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.605	37.79	PK2	34.7	-26.6	45.89	-	-	-	-	285	115	H
2	8.808	35.03	PK2	36	-22.7	48.33	-	-	-	-	340	229	H
3	* 11.875	34.37	PK2	38.9	-21.3	51.97	-	-	74	-22.03	323	227	H
	* 11.873	22.91	MAv1	39	-21.3	40.61	54	-13.39	-	-	323	227	H
4	* 5.37	38.23	PK2	34.6	-27.5	45.33	-	-	74	-28.67	322	294	V
	* 5.368	26.25	MAv1	34.6	-27.5	33.35	54	-20.65	-	-	322	294	V
5	10.477	34.12	PK2	37.7	-21.6	50.22	-	-	-	-	241	154	V
6	* 10.998	35.69	PK2	38	-21.3	52.39	-	-	74	-21.61	180	357	V
	* 10.999	22.94	MAv1	38	-21.3	39.64	54	-14.36	-	-	180	357	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

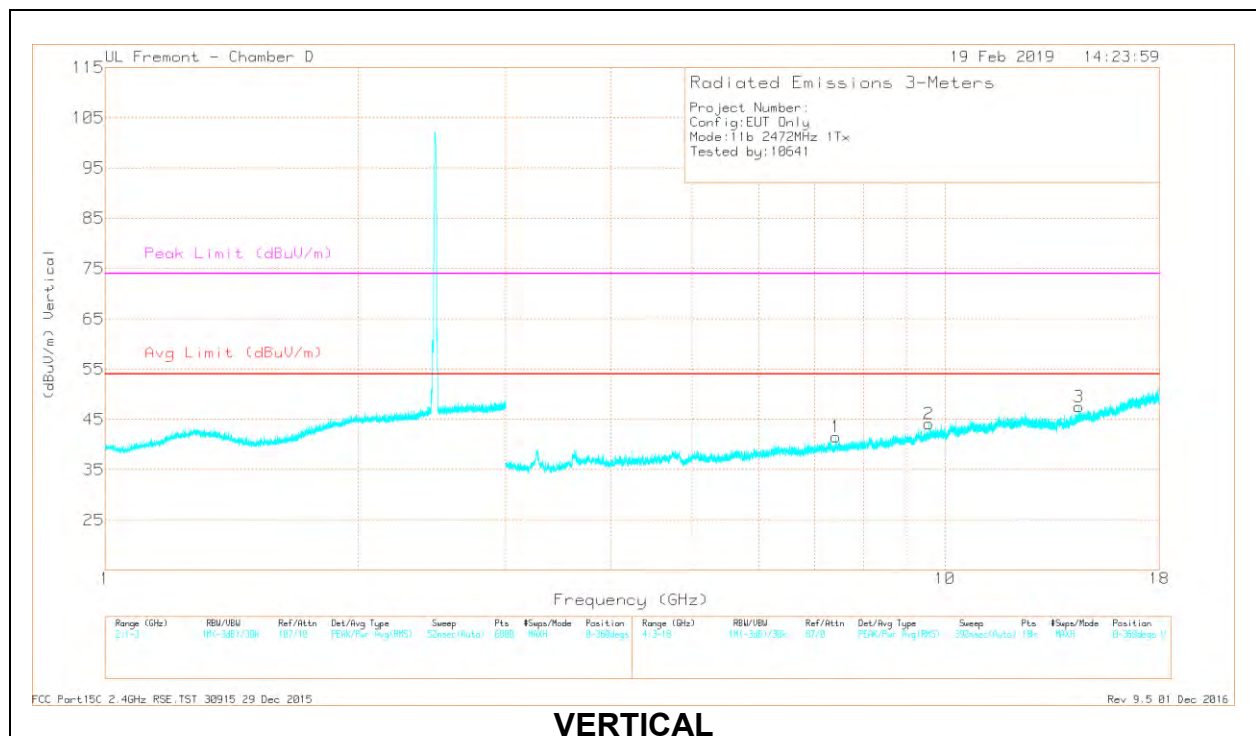
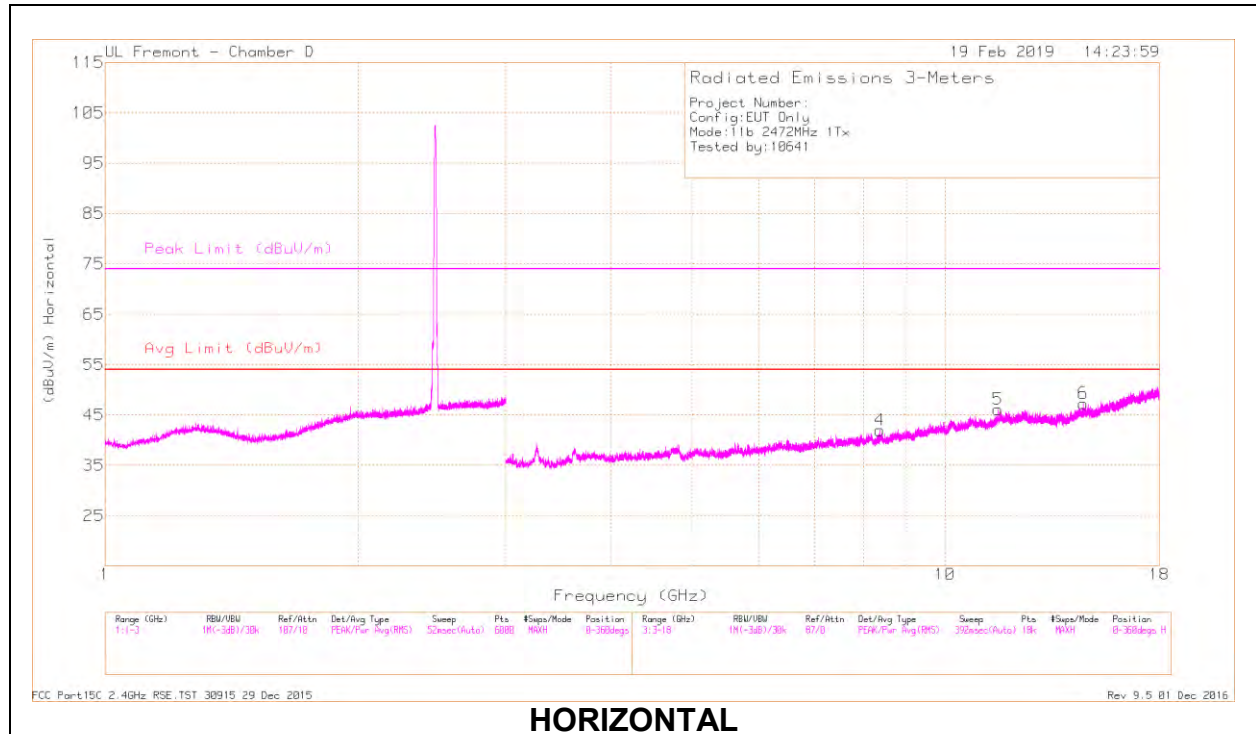
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.223	42.36	PK2	29.7	-22.2	49.86	-	-	74	-24.14	71	192	H
	* 1.222	28.92	MAv1	29.7	-22.2	36.42	54	-17.58	-	-	71	192	H
2	6.342	37.2	PK2	35.5	-25.9	46.8	-	-	-	-	0	270	H
3	* 10.695	34.08	PK2	38	-21.8	50.28	-	-	74	-23.72	84	253	H
	* 10.694	20.5	MAv1	38	-21.8	36.7	54	-17.3	-	-	84	253	H
4	* 8.144	35.59	PK2	35.8	-23.1	48.29	-	-	74	-25.71	148	203	V
	* 8.143	22.18	MAv1	35.8	-23.1	34.88	54	-19.12	-	-	148	203	V
5	* 11.875	34.64	PK2	38.9	-21.3	52.24	-	-	74	-21.76	310	259	V
	* 11.875	20.93	MAv1	39	-21.3	38.63	54	-15.37	-	-	310	259	V
6	16.727	34.48	PK2	41.4	-20	55.88	-	-	-	-	344	124	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



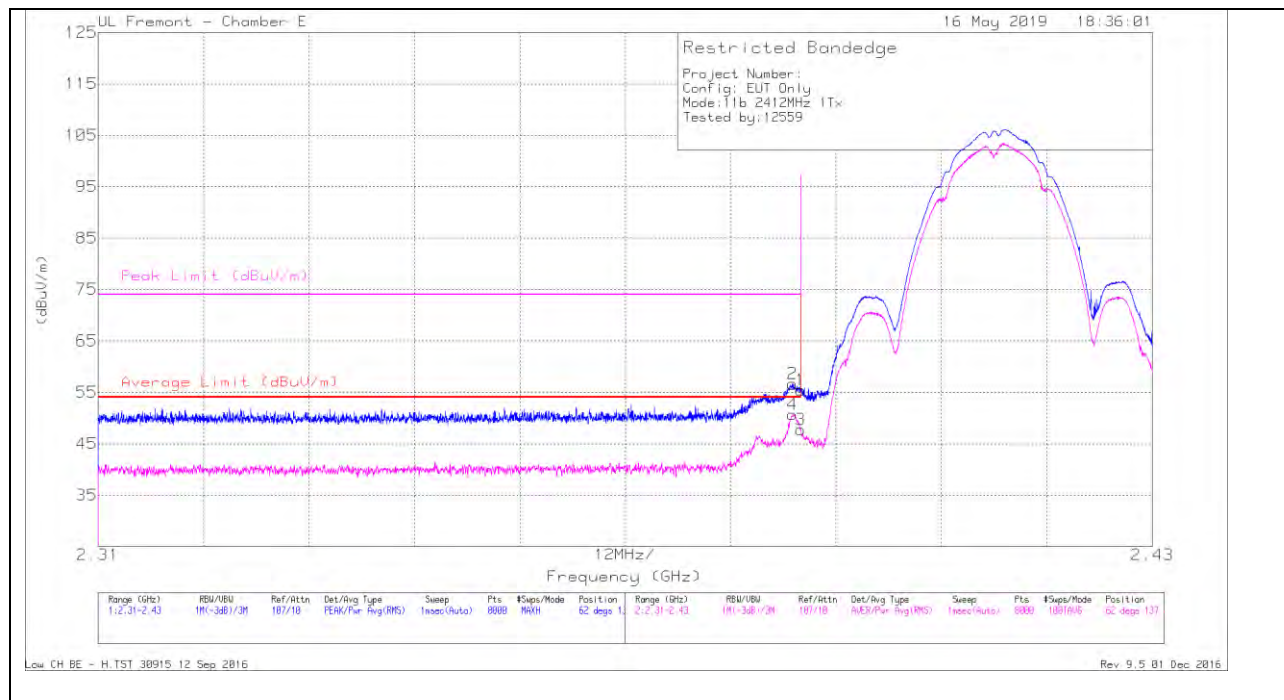
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 7.416	37.91	PK2	35.8	-25.2	48.51	-	-	74	-25.49	332	201	V
	* 7.417	27.15	MAv1	35.9	-25.2	37.85	54	-16.15	-	-	332	201	V
2	9.573	34.33	PK2	36.8	-21.8	49.33	-	-	-	-	286	301	V
3	14.439	36.58	PK2	39.8	-23	53.38	-	-	-	-	191	185	V
4	* 8.364	35.5	PK2	35.8	-23.3	48	-	-	74	-26	360	101	H
	* 8.371	23.8	MAv1	35.7	-23.2	36.3	54	-17.7	-	-	360	101	H
5	* 11.566	34.63	PK2	38.7	-21.2	52.13	-	-	74	-21.87	120	327	H
	* 11.565	22.94	MAv1	38.7	-21.3	40.34	54	-13.66	-	-	120	327	H
6	14.609	36.15	PK2	40	-23.5	52.65	-	-	-	-	300	128	H

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

1TX Antenna 5 MODE**BANDEDGE (LOW CHANNEL, CH 1)****HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtri/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	50.53	Pk	32.3	-26.2	56.63	-	-	74	-17.37	62	137	H
4	* 2.389	44.6	RMS	32.3	-26.2	50.7	54	-3.3	-	-	62	137	H
1	* 2.39	49.35	Pk	32.3	-26.2	55.45	-	-	74	-18.55	62	137	H
3	* 2.39	41.66	RMS	32.3	-26.2	47.76	54	-6.24	-	-	62	137	H

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

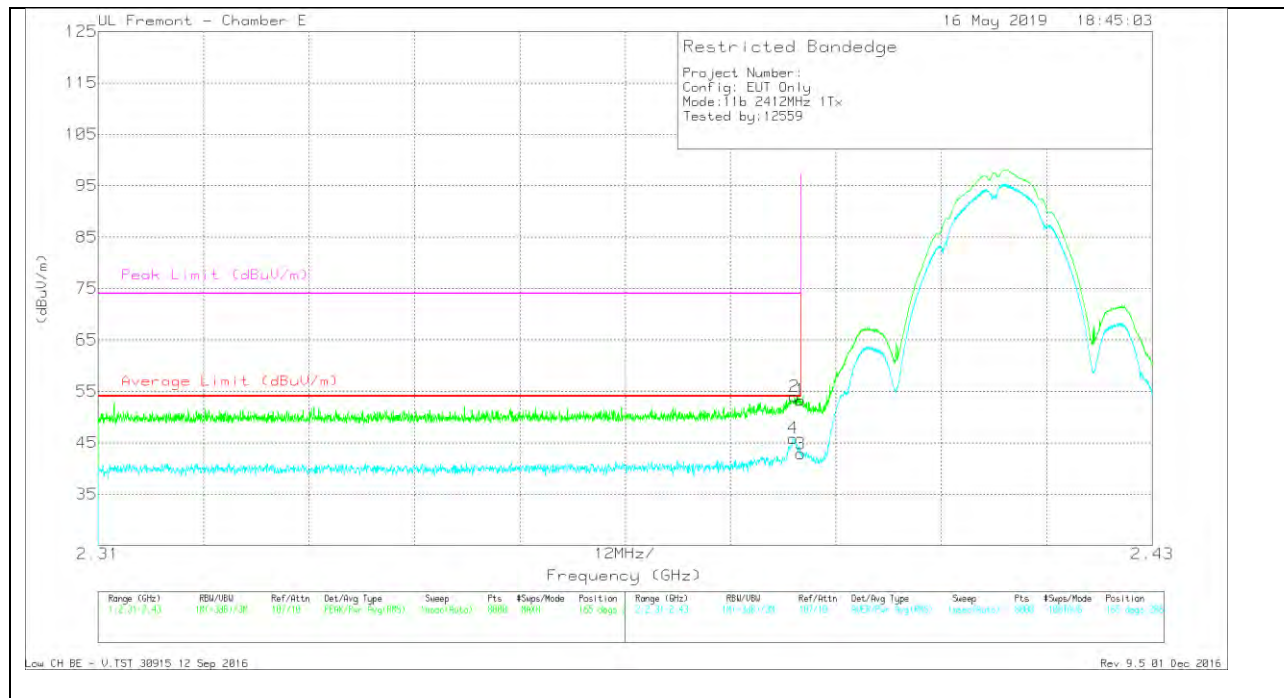
Pk - Peak detector

RMS - RMS detection

Low CH BE - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dBm)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.389	47.86	Pk	32.3	-26.2	53.96	-	-	74	-20.04	165	286	V
4	* 2.389	39.77	RMS	32.3	-26.2	45.87	54	-8.13	-	-	165	286	V
1	* 2.39	47.22	Pk	32.3	-26.2	53.32	-	-	74	-20.68	165	286	V
3	* 2.39	36.75	RMS	32.3	-26.2	42.85	54	-11.15	-	-	165	286	V

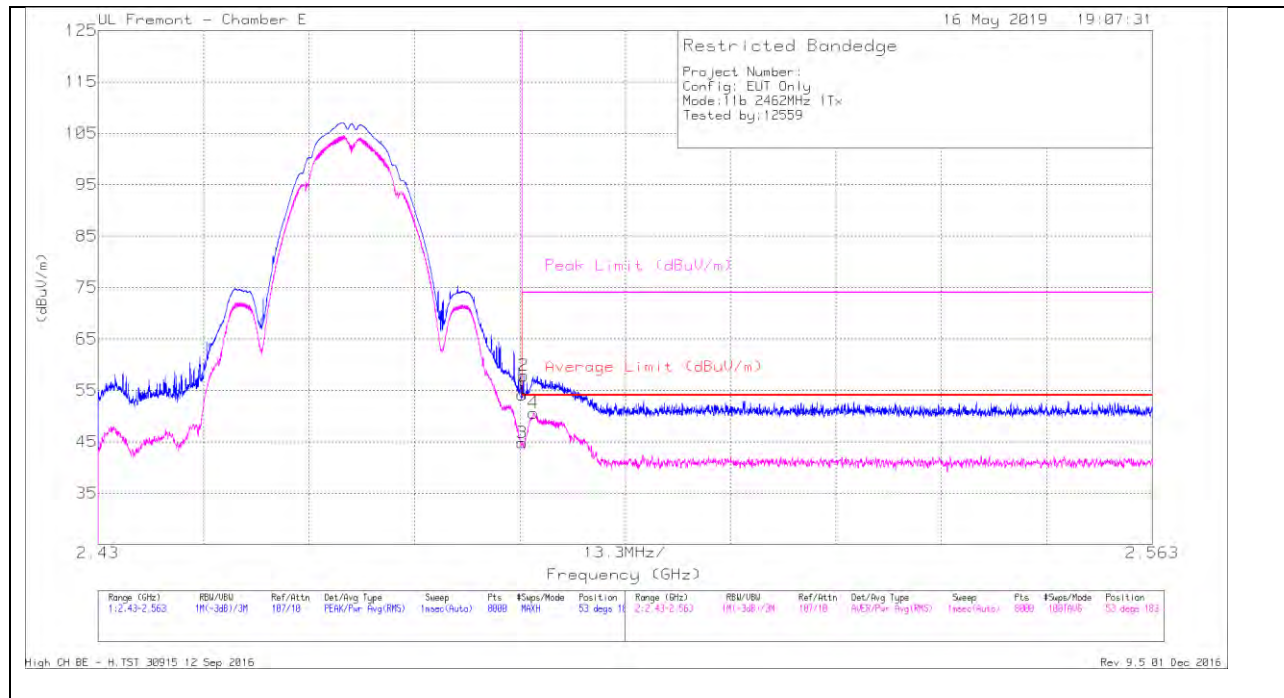
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

Low CH BE - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

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

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	47.69	Pk	32.8	-26.3	54.19	-	-	74	-19.81	53	183	H
2	* 2.484	51.36	Pk	32.8	-26.3	57.86	-	-	74	-16.14	53	183	H
3	* 2.484	38.31	RMS	32.8	-26.3	44.81	54	-9.19	-	-	53	183	H
4	* 2.485	44.09	RMS	32.8	-26.3	50.59	54	-3.41	-	-	53	183	H

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

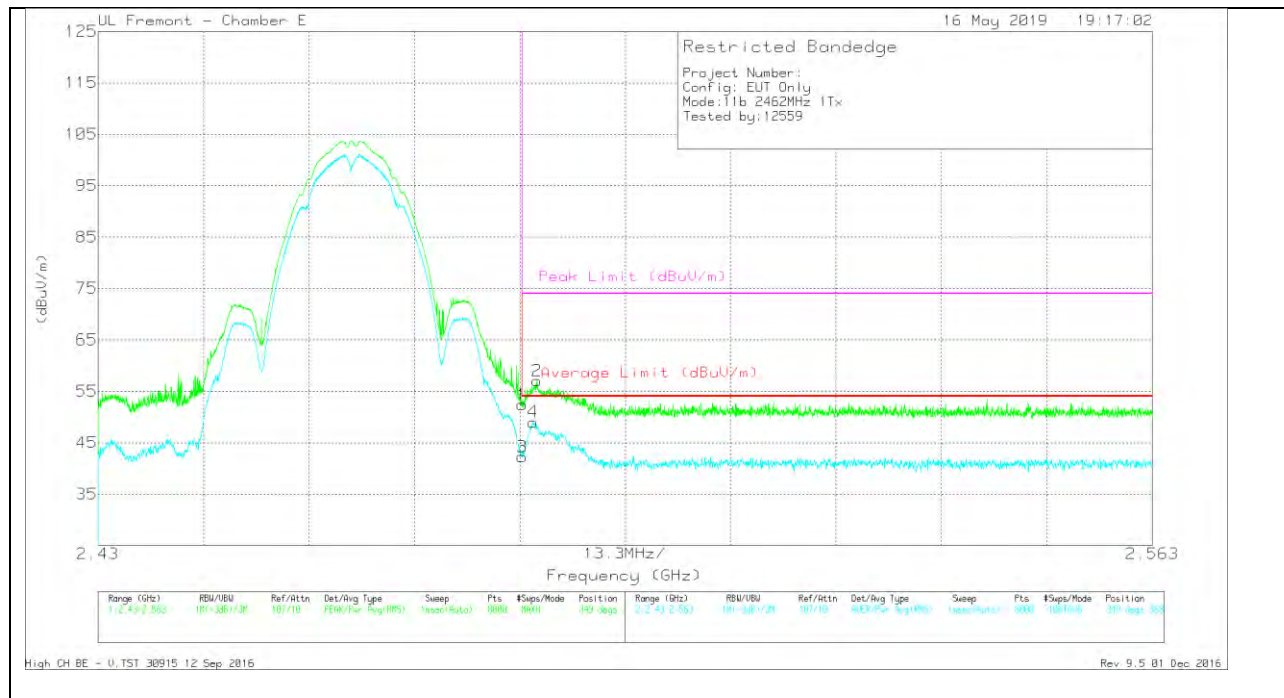
Pk - Peak detector

RMS - RMS detection

High CH BE - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dBm)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	45.87	Pk	32.8	-26.3	52.37	-	-	74	-21.63	349	368	V
3	* 2.484	35.75	RMS	32.8	-26.3	42.25	54	-11.75	-	-	349	368	V
2	* 2.485	50.52	Pk	32.8	-26.3	57.02	-	-	74	-16.98	349	368	V
4	* 2.485	42.52	RMS	32.8	-26.3	49.02	54	-4.98	-	-	349	368	V

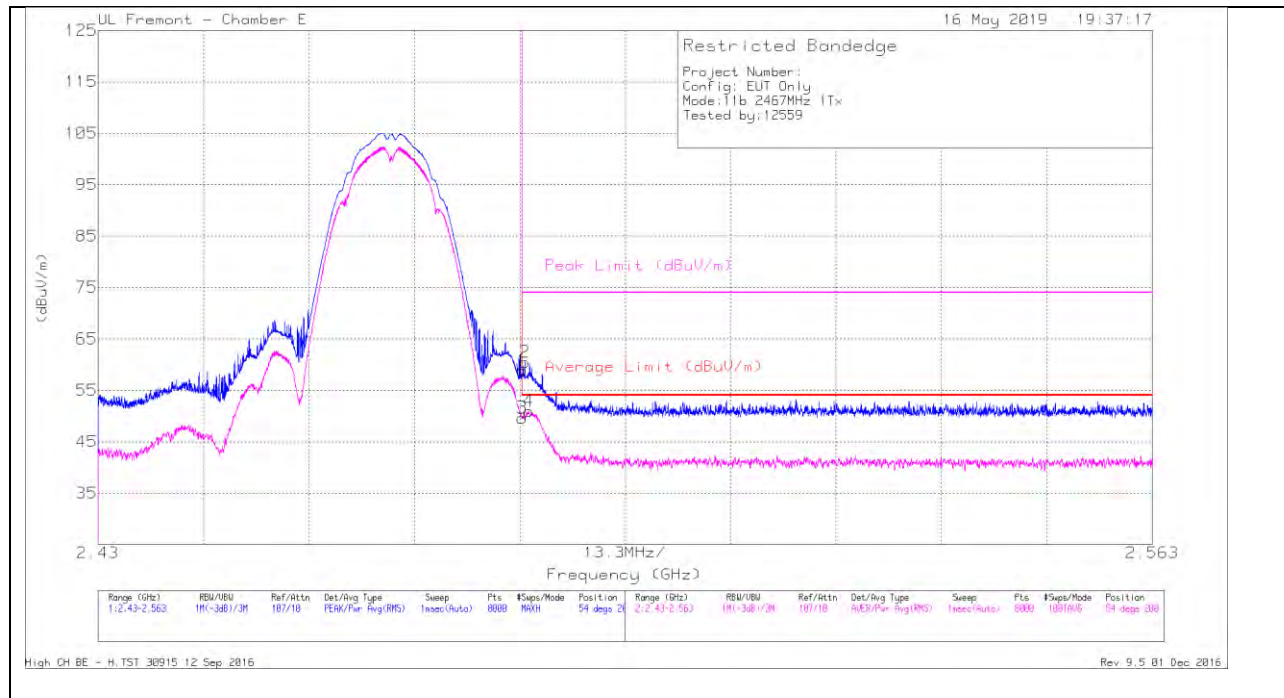
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

High CH BE - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

BANDEDGE (HIGH CHANNEL, CH 12)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	52.39	Pk	32.8	-26.3	58.89	-	-	74	-15.11	54	200	H
2	* 2.484	53.99	Pk	32.8	-26.3	60.49	-	-	74	-13.51	54	200	H
3	* 2.484	43.13	RMS	32.8	-26.3	49.63	54	-4.37	-	-	54	200	H
4	* 2.484	44.47	RMS	32.8	-26.3	50.97	54	-3.03	-	-	54	200	H

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

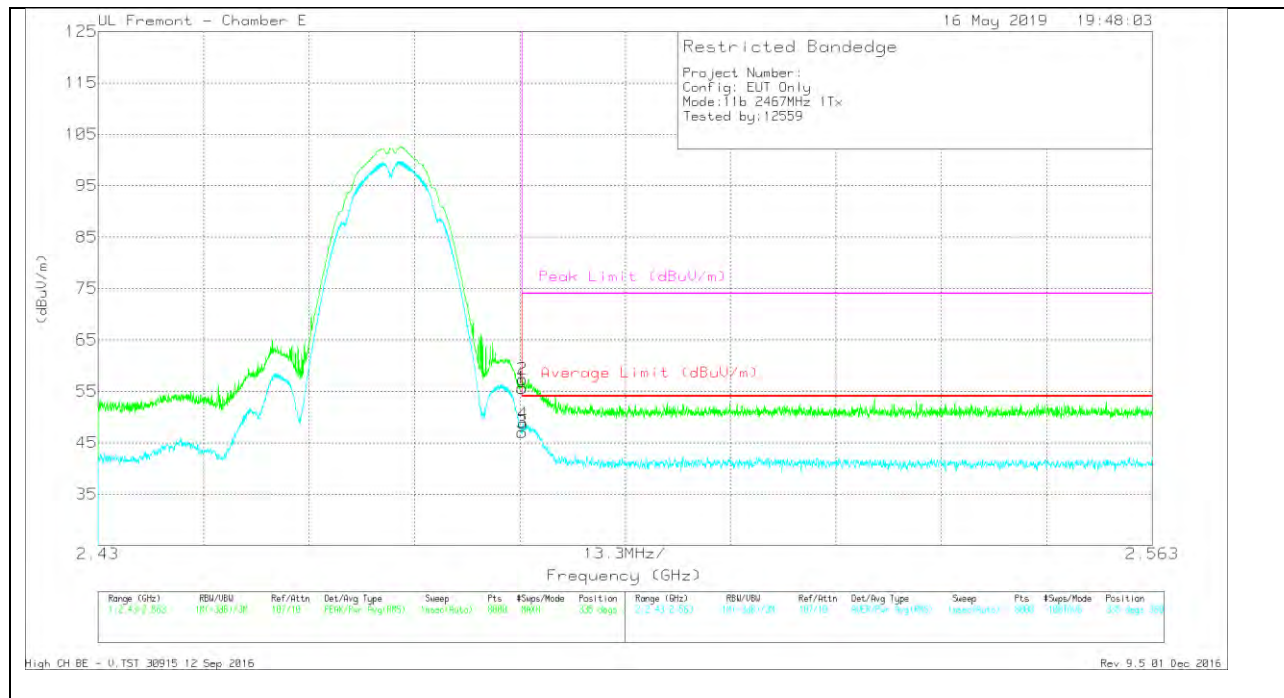
Pk - Peak detector

RMS - RMS detection

High CH BE - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/FiltriP ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	49.16	Pk	32.8	-26.3	55.66	-	-	74	-18.34	335	360	V
2	* 2.484	50.86	Pk	32.8	-26.3	57.36	-	-	74	-16.64	335	360	V
3	* 2.484	40.57	RMS	32.8	-26.3	47.07	54	-6.93	-	-	335	360	V
4	* 2.484	42.24	RMS	32.8	-26.3	48.74	54	-5.26	-	-	335	360	V

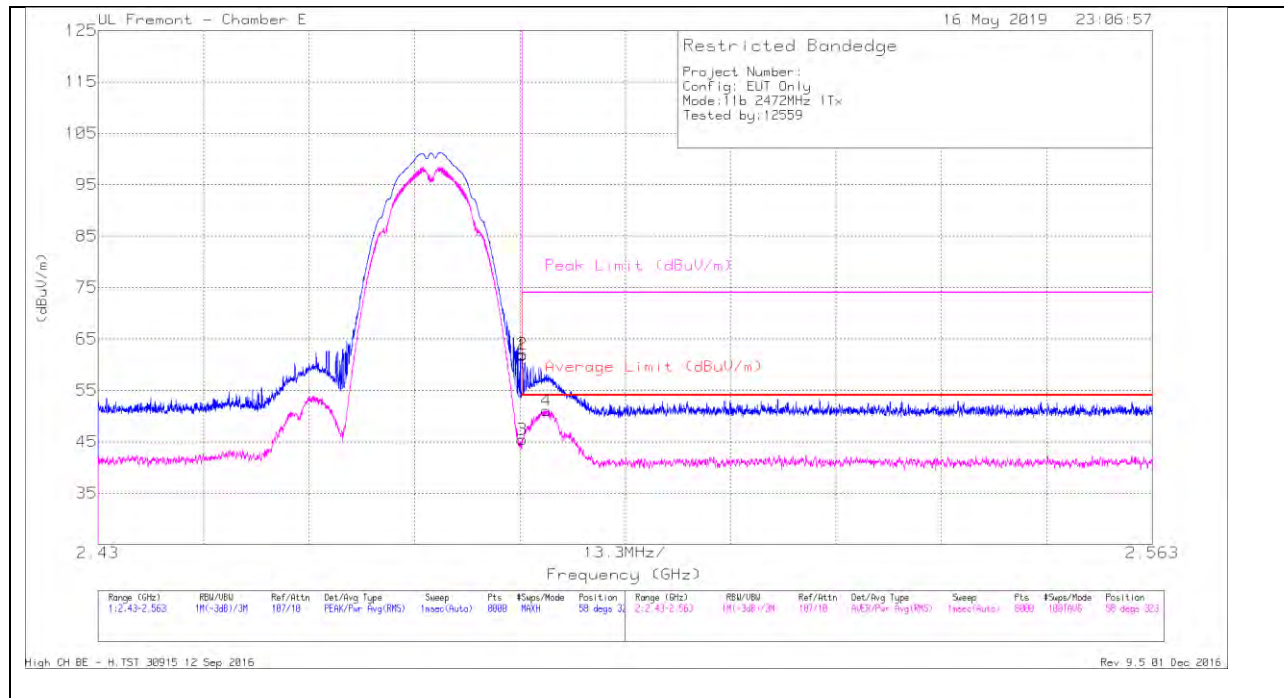
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

High CH BE - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

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

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	55.31	Pk	32.8	-26.3	61.81	-	-	74	-12.19	58	323	H
2	* 2.484	55.52	Pk	32.8	-26.3	62.02	-	-	74	-11.98	58	323	H
3	* 2.484	38.95	RMS	32.8	-26.3	45.45	54	-8.55	-	-	58	323	H
4	* 2.487	44.54	RMS	32.8	-26.3	51.04	54	-2.96	-	-	58	323	H

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

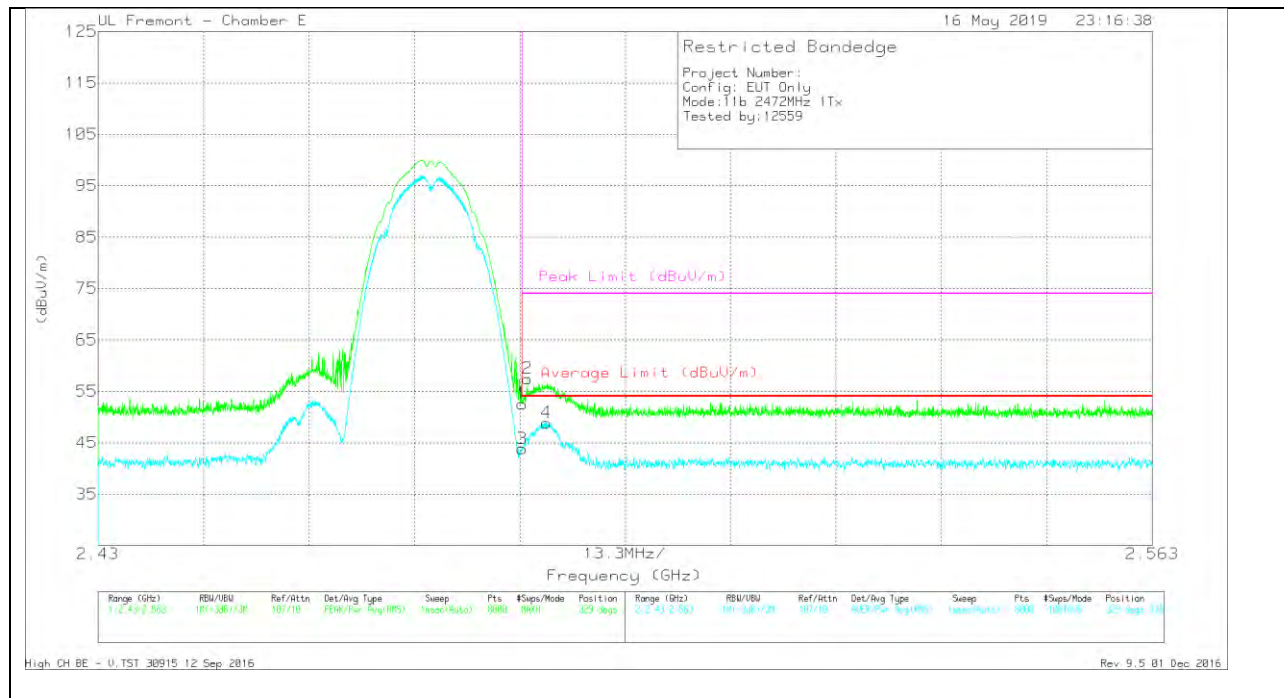
Pk - Peak detector

RMS - RMS detection

High CH BE - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dBm)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	46.09	Pk	32.8	-26.3	52.59	-	-	74	-21.41	329	376	V
2	* 2.484	50.97	Pk	32.8	-26.3	57.47	-	-	74	-16.53	329	376	V
3	* 2.484	37.32	RMS	32.8	-26.3	43.82	54	-10.18	-	-	329	376	V
4	* 2.487	42.39	RMS	32.8	-26.3	48.89	54	-5.11	-	-	329	376	V

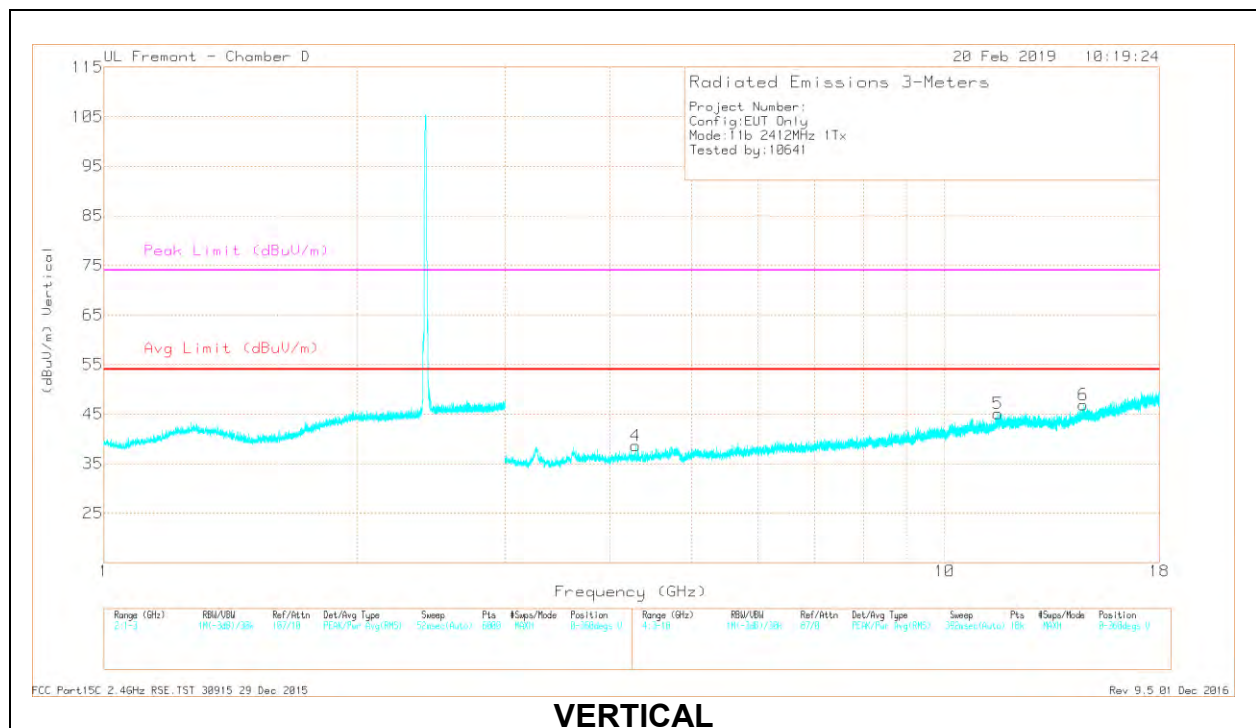
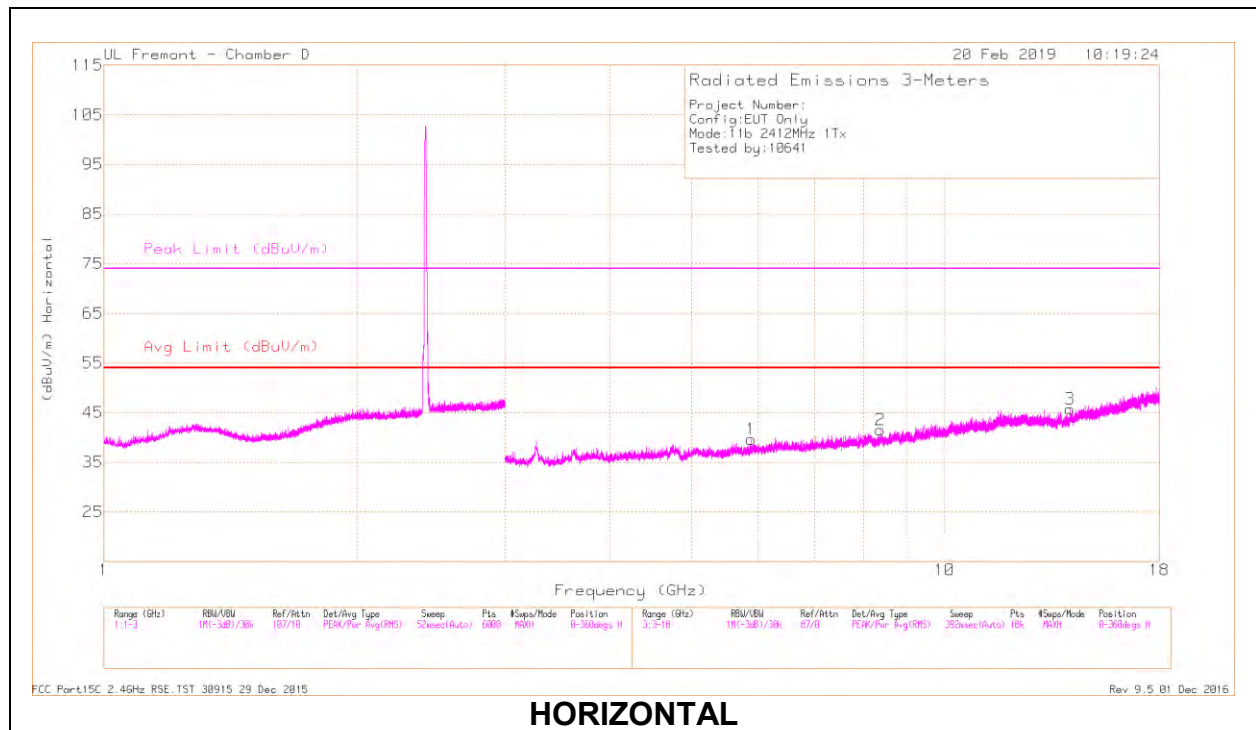
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

High CH BE - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

HARMONICS AND SPURIOUS EMISSIONS**LOW CHANNEL, CH 1 RESULTS**

RADIATED EMISSIONS

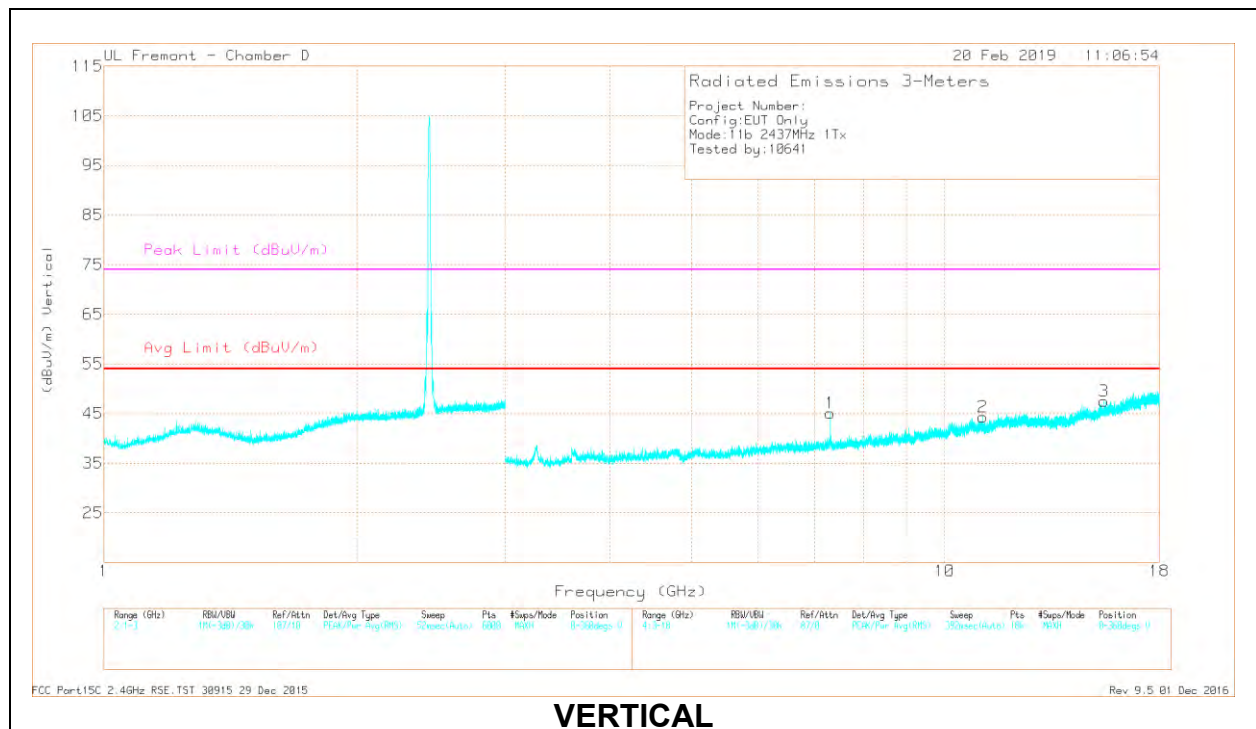
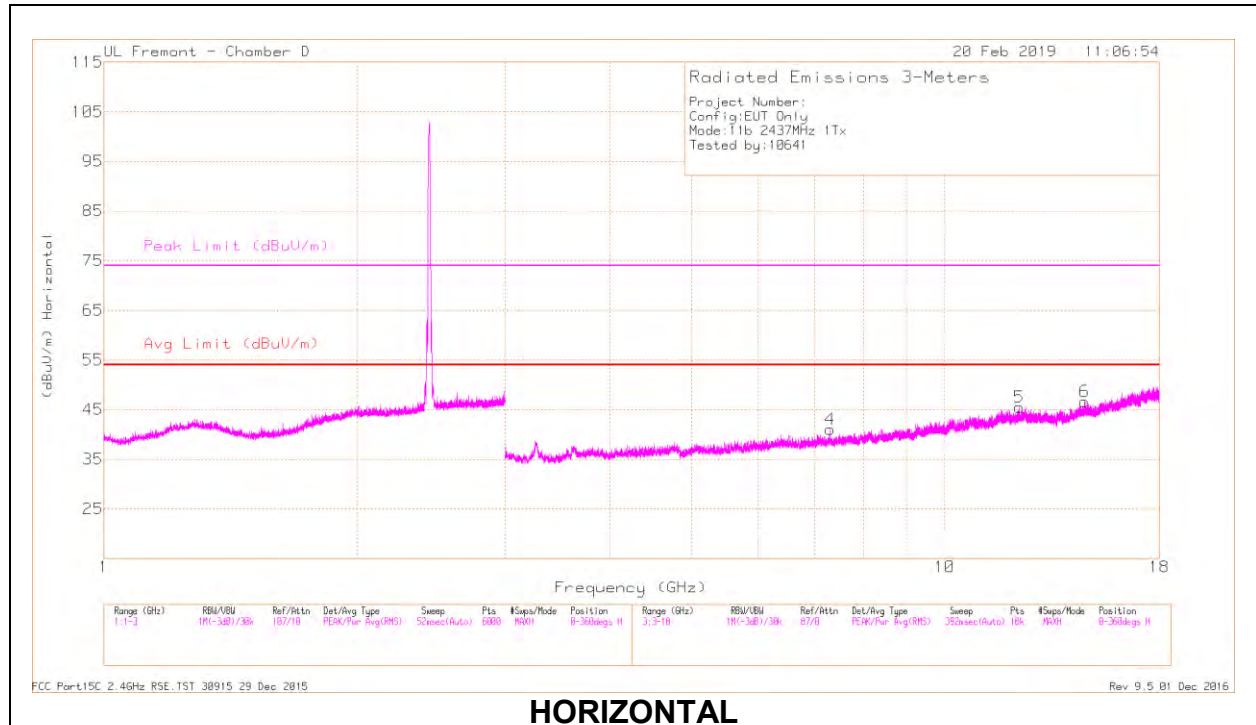
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.887	37.5	PK2	35.1	-26.7	45.9	-	-	-	-	57	280	H
2	* 8.384	36.4	PK2	35.8	-22.9	49.3	-	-	74	-24.7	318	242	H
	* 8.382	22.17	MAv1	35.8	-22.9	35.07	54	-18.93	-	-	318	242	H
3	14.095	36.02	PK2	39	-23	52.02	-	-	-	-	165	253	H
4	* 4.29	39.14	PK2	34.1	-27.9	45.34	-	-	74	-28.66	157	396	V
	* 4.289	26.24	MAv1	34.1	-27.8	32.54	54	-21.46	-	-	157	396	V
5	* 11.561	34.77	PK2	38.7	-21.3	52.17	-	-	74	-21.83	93	146	V
	* 11.565	20.87	MAv1	38.7	-21.2	38.37	54	-15.63	-	-	93	146	V
6	14.613	36.58	PK2	40	-23.4	53.18	-	-	-	-	294	129	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

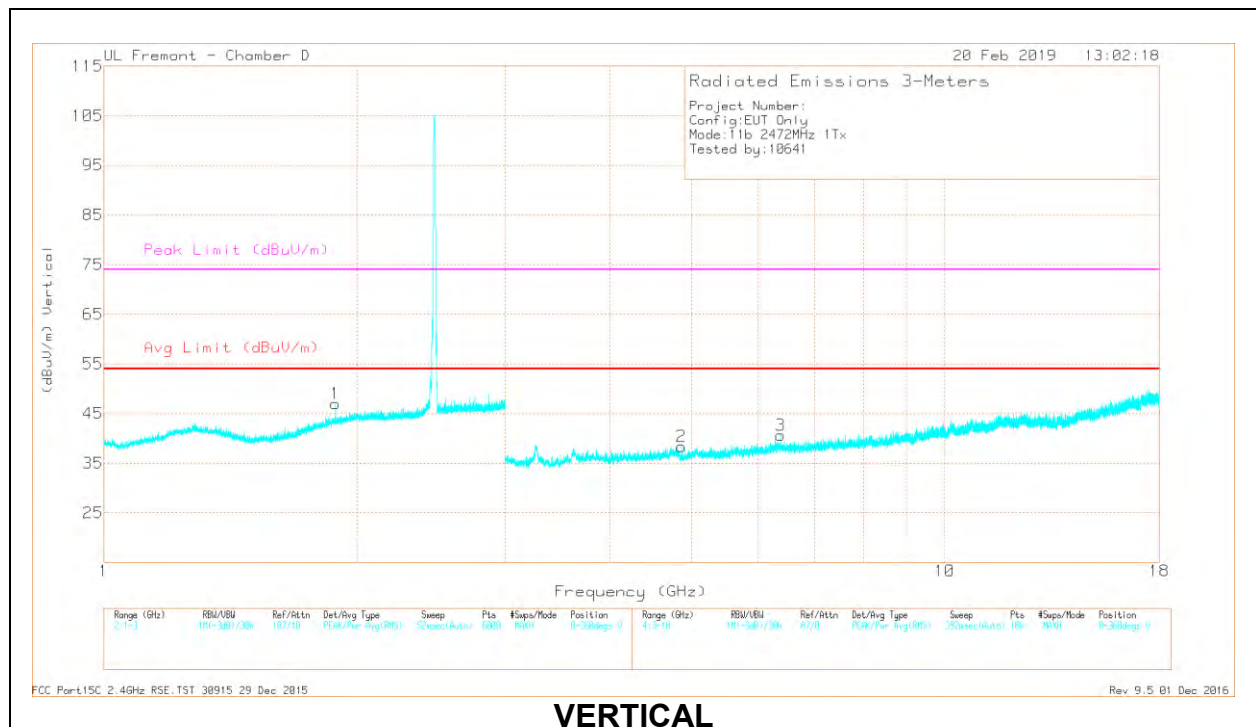
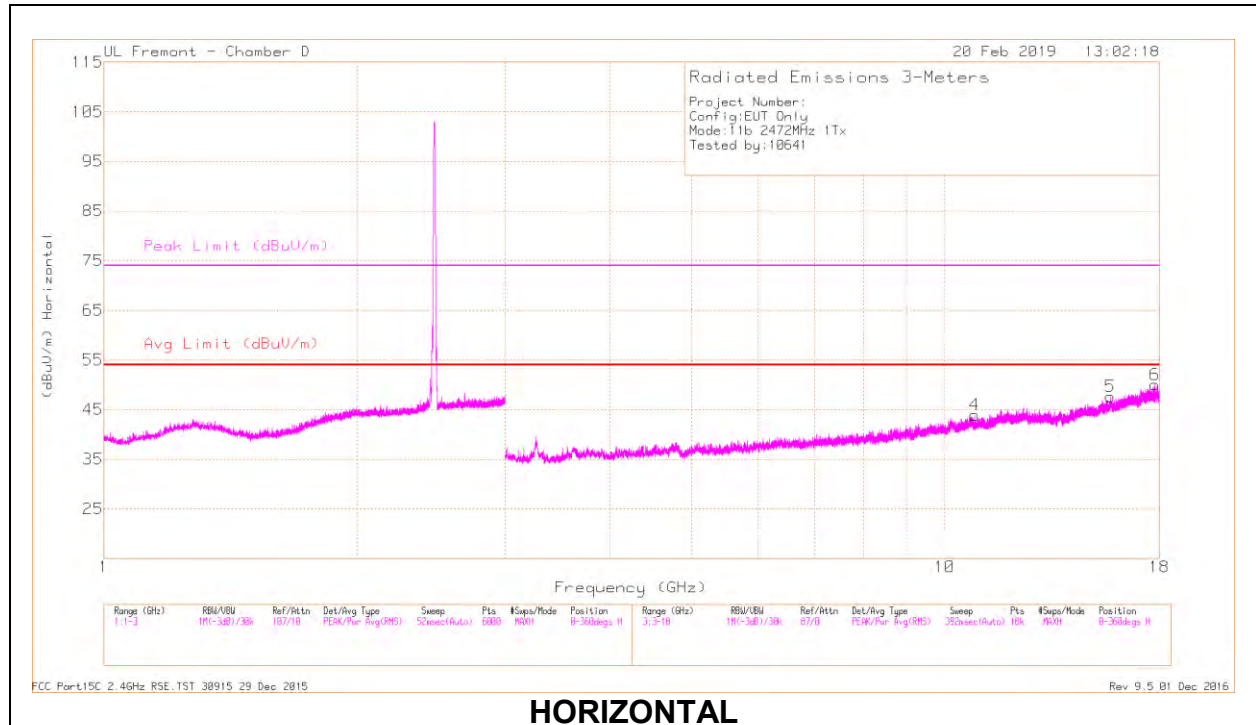
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 7.311	39.61	PK2	35.7	-25.1	50.21	-	-	74	-23.79	181	207	V
	* 7.31	30.07	MAv1	35.7	-25	40.77	54	-13.23	-	-	181	207	V
2	* 11.092	34.61	PK2	38.1	-21.4	51.31	-	-	74	-22.69	225	205	V
	* 11.094	21.67	MAv1	38	-21.4	38.27	54	-15.73	-	-	225	205	V
3	* 15.475	35.44	PK2	40.3	-21.7	54.04	-	-	74	-19.96	231	215	V
	* 15.477	22.77	MAv1	40.3	-21.8	41.27	54	-12.73	-	-	231	215	V
4	* 7.313	36.89	PK2	35.7	-25.2	47.39	-	-	74	-26.61	331	327	H
	* 7.312	23.97	MAv1	35.7	-25.1	34.57	54	-19.43	-	-	331	327	H
5	* 12.265	35.08	PK2	39.1	-21.8	52.38	-	-	74	-21.62	142	135	H
	* 12.264	22.17	MAv1	39.1	-21.8	39.47	54	-14.53	-	-	142	135	H
6	14.655	35.93	PK2	40.1	-23.1	52.93	-	-	-	-	212	196	H

* - 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	AFT119 (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	1.893	42.26	PK2	31.2	-21.2	52.26	-	-	-	-	172	287	V
2	* 4.865	38.6	PK2	34.2	-27.9	44.9	-	-	74	-29.1	177	306	V
	* 4.868	26.9	MAv1	34.2	-28	33.1	54	-20.9	-	-	177	306	V
3	6.38	38.38	PK2	35.5	-25.9	47.98	-	-	-	-	184	316	V
4	* 10.857	34.57	PK2	38.1	-21.8	50.87	-	-	74	-23.13	165	310	H
	* 10.856	21.15	MAv1	38.1	-21.8	37.45	54	-16.55	-	-	165	310	H
5	* 15.749	34.39	PK2	40.3	-20.4	54.29	-	-	74	-19.71	158	310	H
	* 15.747	21.87	MAv1	40.3	-20.5	41.67	54	-12.33	-	-	158	310	H
6	* 17.776	33.85	PK2	41.6	-19.3	56.15	-	-	74	-17.85	157	257	H
	* 17.774	20.68	MAv1	41.6	-19.3	42.98	54	-11.02	-	-	157	257	H

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

PK2 - KDB558074 Method: Maximum Peak

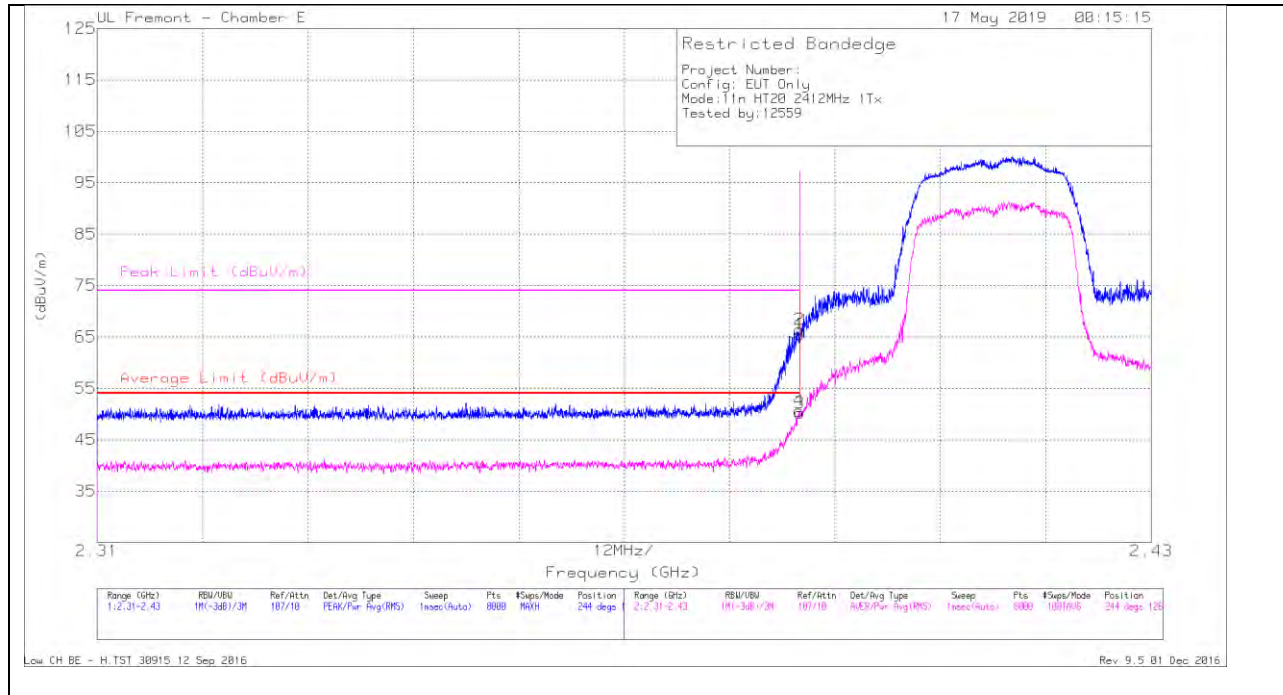
MAv1 - KDB558074 Option 1 Maximum RMS Average

9.1.2. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 2.4 GHz BAND

1TX Antenna 2 MODE

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	59.36	Pk	32.3	-26.2	65.46	-	-	74	-8.54	244	126	H
2	* 2.39	60.3	Pk	32.3	-26.2	66.4	-	-	74	-7.6	244	126	H
3	* 2.39	44.08	RMS	32.3	-26.2	50.18	54	-3.82	-	-	244	126	H
4	* 2.39	44.54	RMS	32.3	-26.2	50.64	54	-3.36	-	-	244	126	H

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

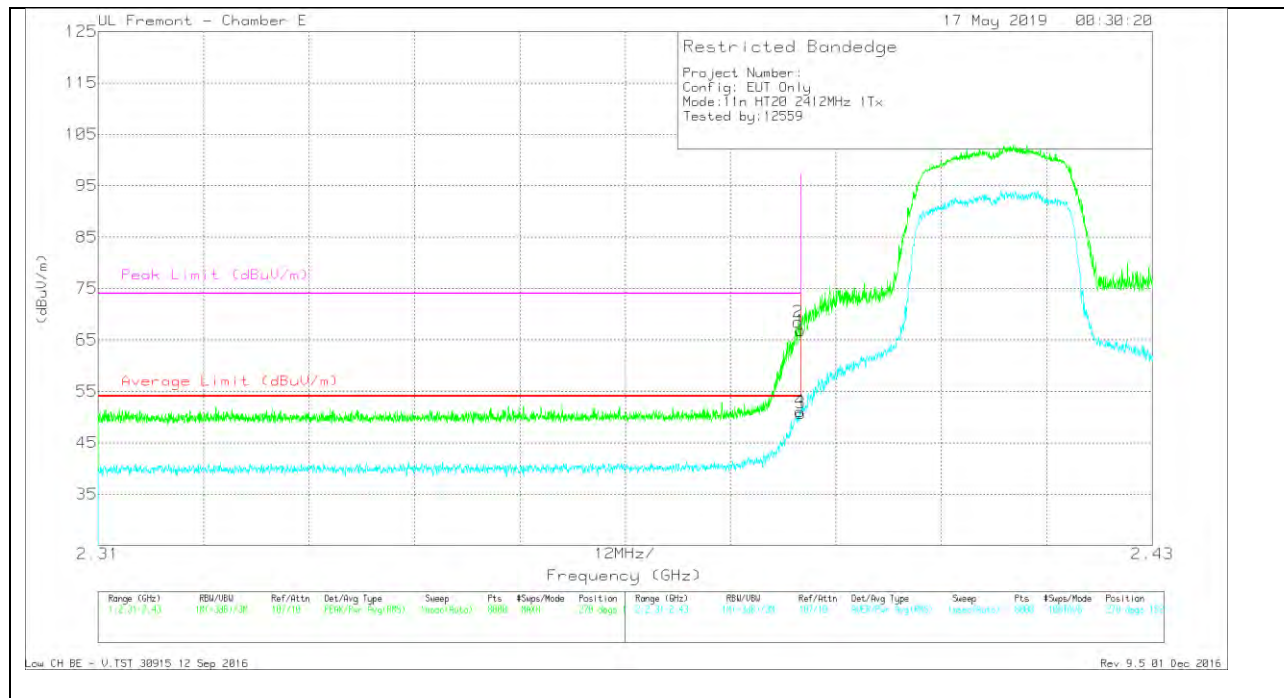
Pk - Peak detector

RMS - RMS detection

Low CH BE - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.69	Pk	32.3	-26.2	66.79	-	-	74	-7.21	270	152	V
2	* 2.39	62.39	Pk	32.3	-26.2	68.49	-	-	74	-5.51	270	152	V
3	* 2.39	44.65	RMS	32.3	-26.2	50.75	54	-3.25	-	-	270	152	V
4	* 2.39	45	RMS	32.3	-26.2	51.1	54	-2.9	-	-	270	152	V

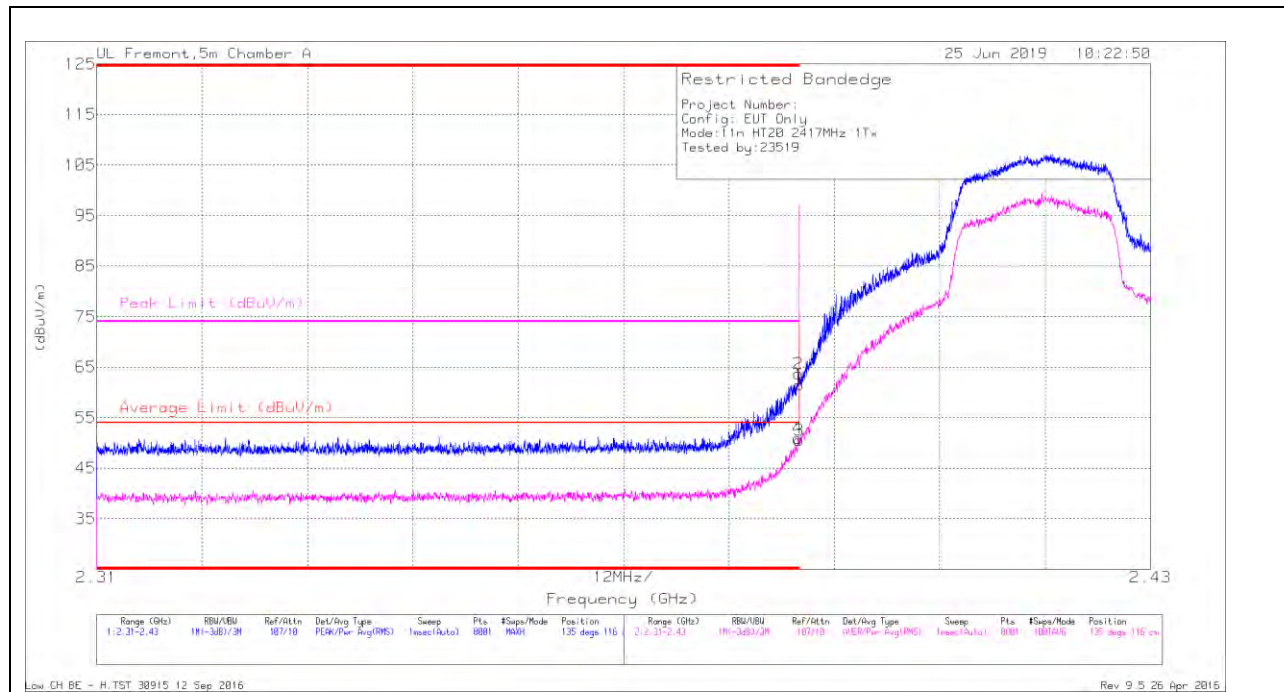
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

Low CH BE - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

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

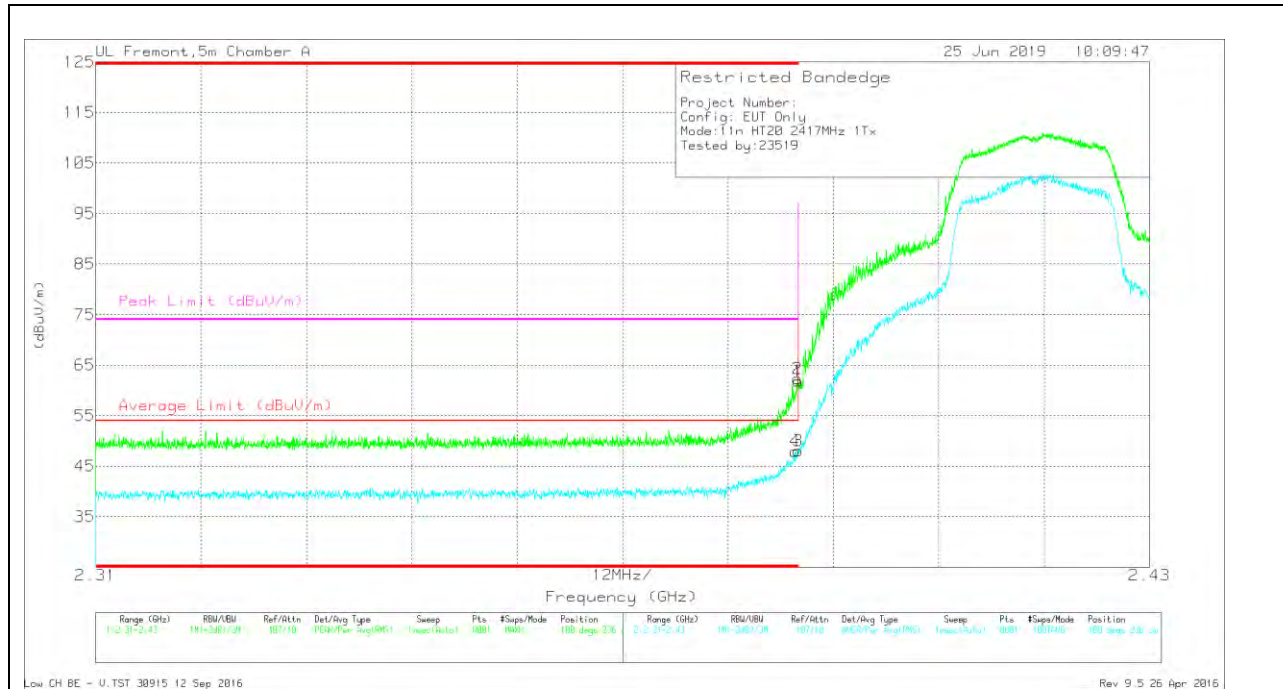
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	51.53	Pk	32.2	-22.3	61.43	-	-	74	-12.57	135	116	H
2	* 2.39	53.82	Pk	32.2	-22.3	63.72	-	-	74	-10.28	135	116	H
3	* 2.39	40.67	RMS	32.2	-22.3	50.57	54	-3.43	-	-	135	116	H
4	* 2.39	41.07	RMS	32.2	-22.3	50.97	54	-3.03	-	-	135	116	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

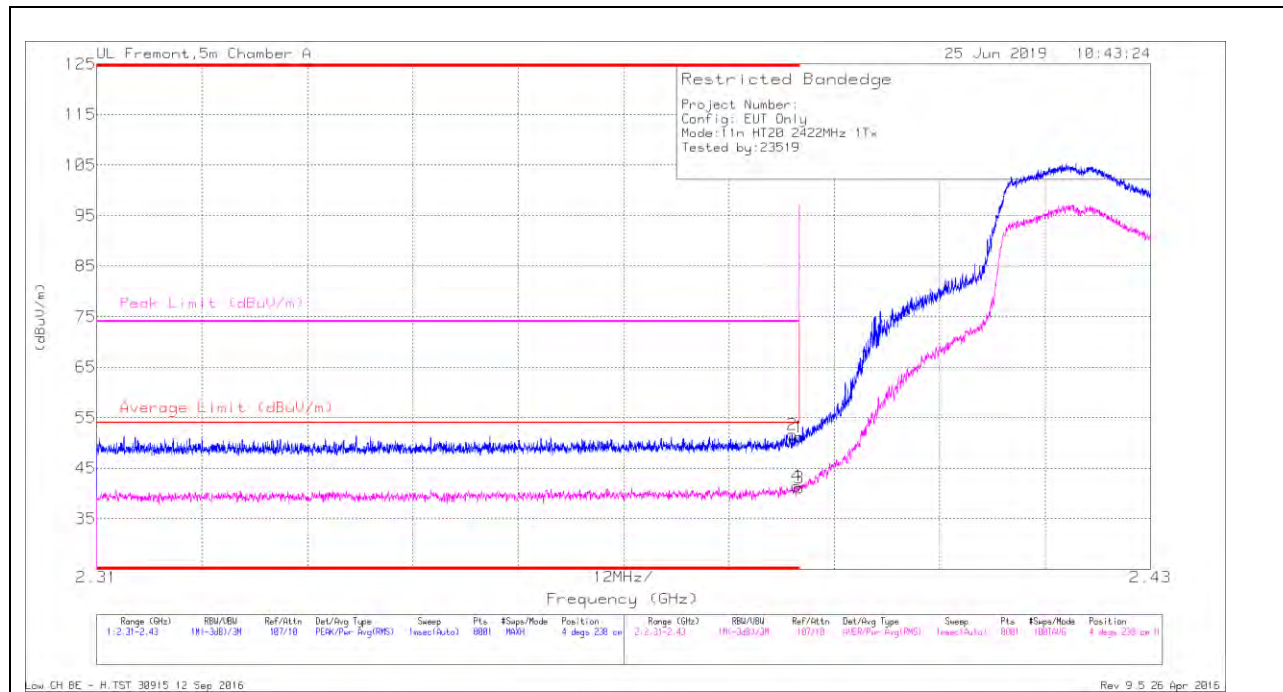


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	51.9	Pk	32.2	-22.3	61.8	-	-	74	-12.2	100	236	V
2	* 2.39	52.44	Pk	32.2	-22.3	62.34	-	-	74	-11.66	100	236	V
3	* 2.39	38.17	RMS	32.2	-22.3	48.07	54	-5.93	-	-	100	236	V
4	* 2.39	38.08	RMS	32.2	-22.3	47.98	54	-6.02	-	-	100	236	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 T346 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.25	Pk	32.2	-22.3	51.15	-	-	74	-22.85	4	238	H
2	* 2.389	41.73	Pk	32.2	-22.3	51.63	-	-	74	-22.37	4	238	H
3	* 2.39	31.25	RMS	32.2	-22.3	41.15	54	-12.85	-	-	4	238	H
4	* 2.39	31.52	RMS	32.2	-22.3	41.42	54	-12.58	-	-	4	238	H

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

Pk - Peak detector

RMS - RMS detection

UL Fremont, 5m Chamber A

25 Jun 2019 10:34:08

Restricted Bandedge

Project Number:
Config: EUT Only
Mode: 11n HT20 2422MHz 1Tx
Tested by: 23519

Peak Limit (dBuV/m)

Average Limit (dBuV/m)

12MHz/

Frequency (GHz)

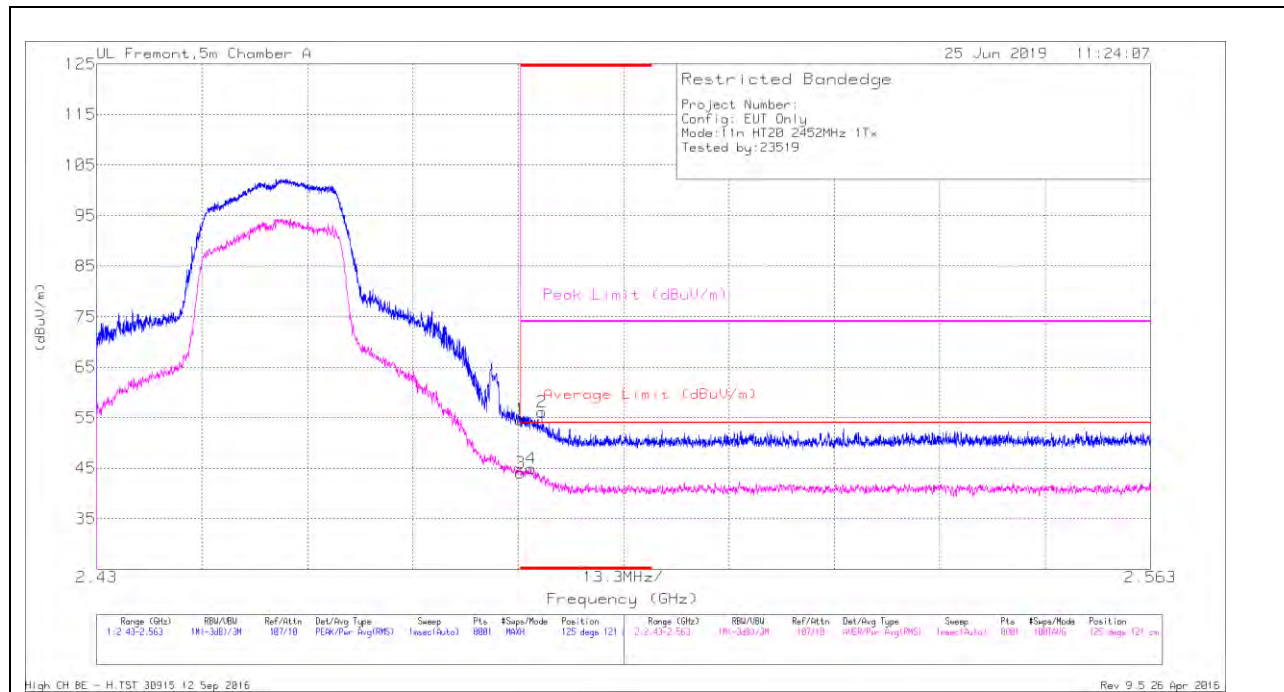
Range (GHz)	RBW/ABW	Ref/Alt n	Det/Avg Type	Sweep	Pls	#Seps/Mode	Position	Range (GHz)	RBW/ABW	Ref/Alt n	Det/Avg Type	Sweep	Pls	#Seps/Mode	Position
1.2-2.43	1M-3dB/20	107/10	PGM/Pwr Avg(MS)	TraceAuto	1001	1001	100 steps 230 up	2.3-2.43	1M-3dB/20	107/10	PGM/Pwr Avg(MS)	TraceAuto	1001	1001	100 steps 230 up

Low CH BE - U.TST 30915 12 Sep 2016

Rev 9.5 26 Apr 2015

Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBUV/m)	Average Limit (dBUV/m)	Margin (dB)	Peak Limit (dBUV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	44.09	Pk	32.2	-22.3	53.99	-	-	74	-20.01	100	238	V
2	* 2.39	44.79	Pk	32.2	-22.3	54.69	-	-	74	-19.31	100	238	V
3	* 2.39	33.74	RMS	32.2	-22.3	43.64	54	-10.36	-	-	100	238	V
4	* 2.39	33.97	RMS	32.2	-22.3	43.87	54	-10.13	-	-	100	238	V

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 9)**HORIZONTAL RESULT**

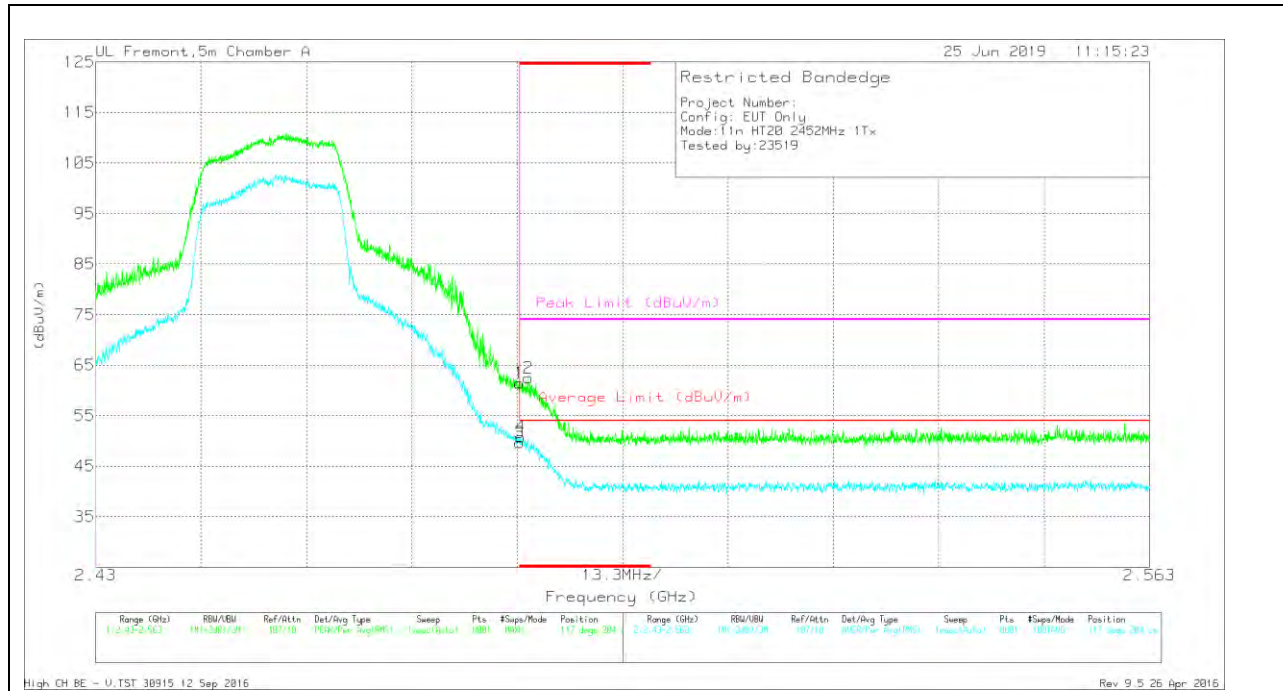
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	44.11	Pk	32.6	-22.1	54.61	-	-	74	-19.39	125	121	H
3	* 2.484	33.55	RMS	32.6	-22.1	44.05	54	-9.95	-	-	125	121	H
4	* 2.485	34.43	RMS	32.6	-22.1	44.93	54	-9.07	-	-	125	121	H
2	* 2.486	45.65	Pk	32.6	-22.1	56.15	-	-	74	-17.85	125	121	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

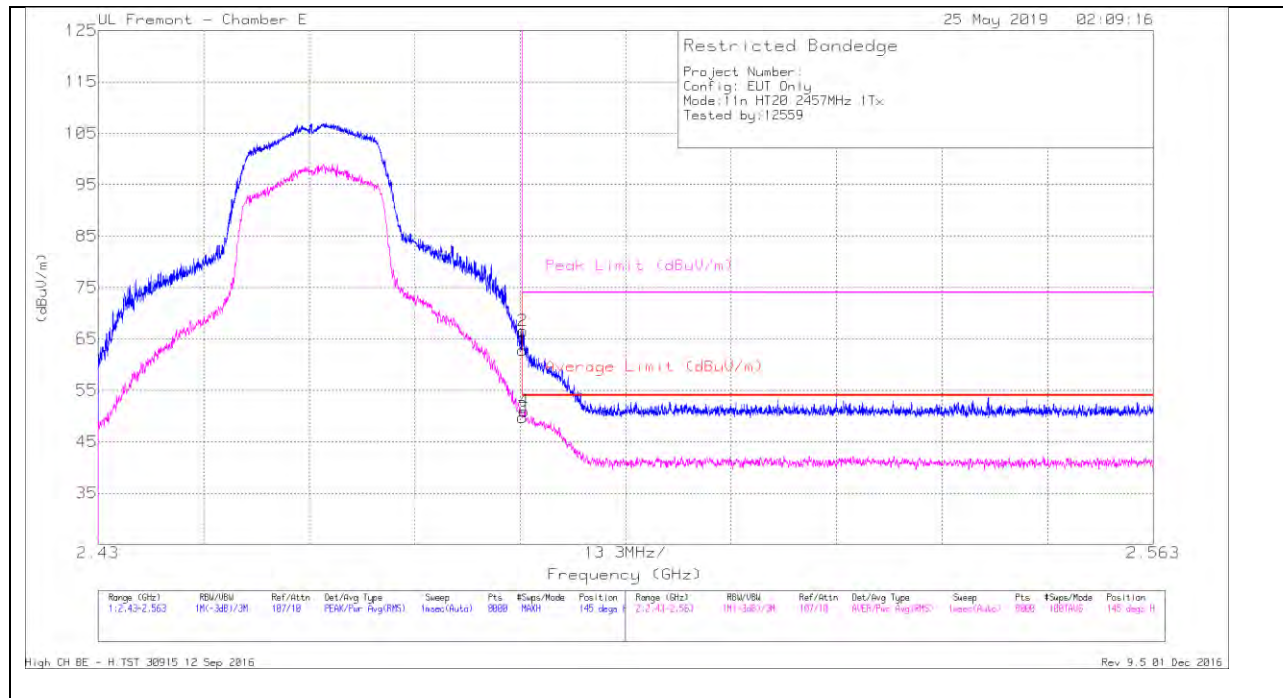


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	50.95	Pk	32.6	-22.1	61.45	-	-	74	-12.55	117	204	V
2	* 2.485	51.93	Pk	32.6	-22.1	62.43	-	-	74	-11.57	117	204	V
3	* 2.484	39.12	RMS	32.6	-22.1	49.62	54	-4.38	-	-	117	204	V
4	* 2.484	40.33	RMS	32.6	-22.1	50.83	54	-3.17	-	-	117	204	V

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

Pk - Peak detector

RMS - RMS detection

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

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	56.26	Pk	32.8	-26.3	62.76	-	-	74	-11.24	145	225	H
2	* 2.484	60.03	Pk	32.8	-26.3	66.53	-	-	74	-7.47	145	225	H
3	* 2.484	43.24	RMS	32.8	-26.3	49.74	54	-4.26	-	-	145	225	H
4	* 2.484	44.47	RMS	32.8	-26.3	50.97	54	-3.03	-	-	145	225	H

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

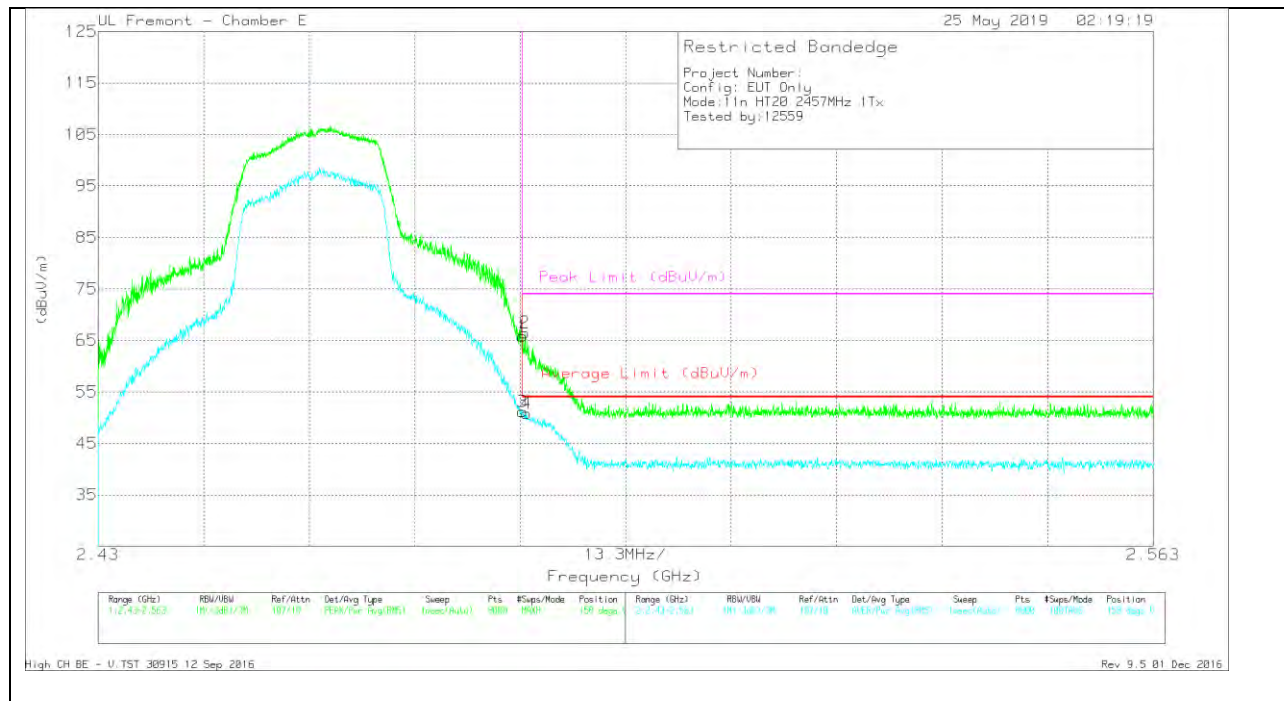
Pk - Peak detector

RMS - RMS detection

High CH BE - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	59.31	Pk	32.8	-26.3	65.81	-	-	74	-8.19	158	321	V
2	* 2.484	59.97	Pk	32.8	-26.3	66.47	-	-	74	-7.53	158	321	V
3	* 2.484	44.69	RMS	32.8	-26.3	51.19	54	-2.81	-	-	158	321	V
4	* 2.484	44.31	RMS	32.8	-26.3	50.81	54	-3.19	-	-	158	321	V

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

Pk - Peak detector

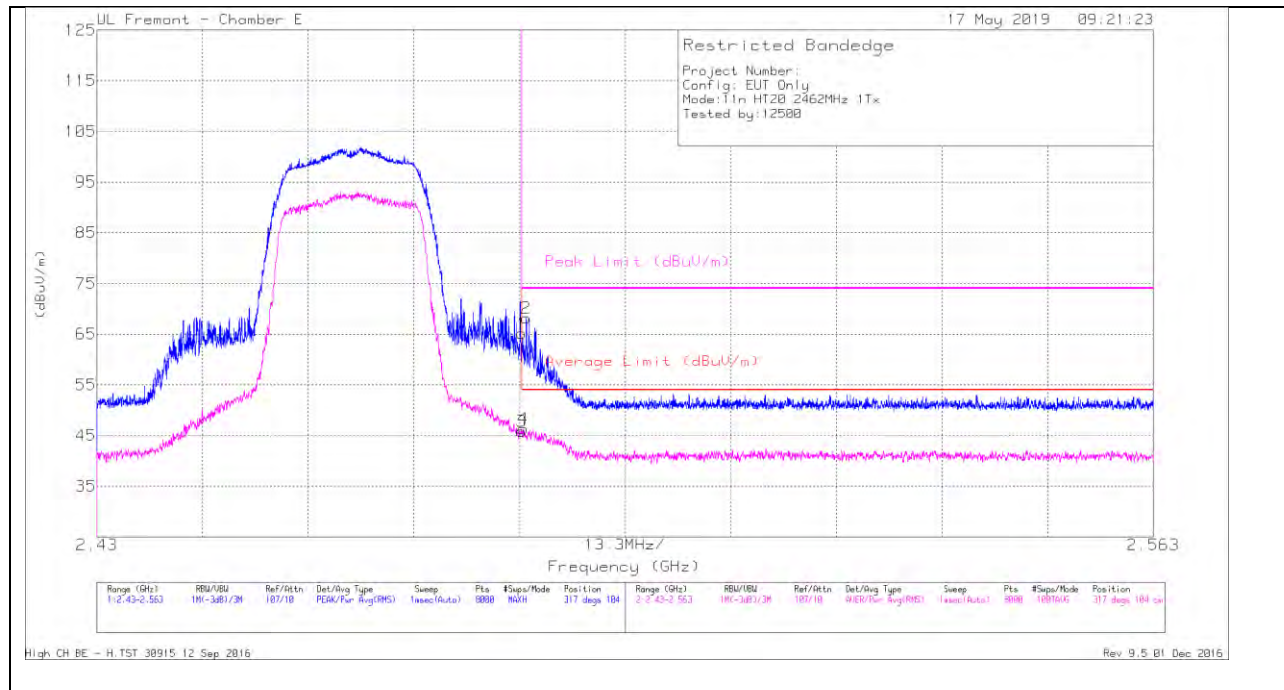
RMS - RMS detection

High CH BE - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

BANDEDGE (HIGH CHANNEL, CH 11)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degr)	Height (cm)	Polarity
1	* 2.484	58.73	Pk	32.8	-26.3	65.23	-	-	74	-8.77	317	104	H
2	* 2.484	61.71	Pk	32.8	-26.3	68.21	-	-	74	-5.79	317	104	H
3	* 2.484	39.36	RMS	32.8	-26.3	45.86	54	-8.14	-	-	317	104	H
4	* 2.484	39.85	RMS	32.8	-26.3	46.35	54	-7.65	-	-	317	104	H

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

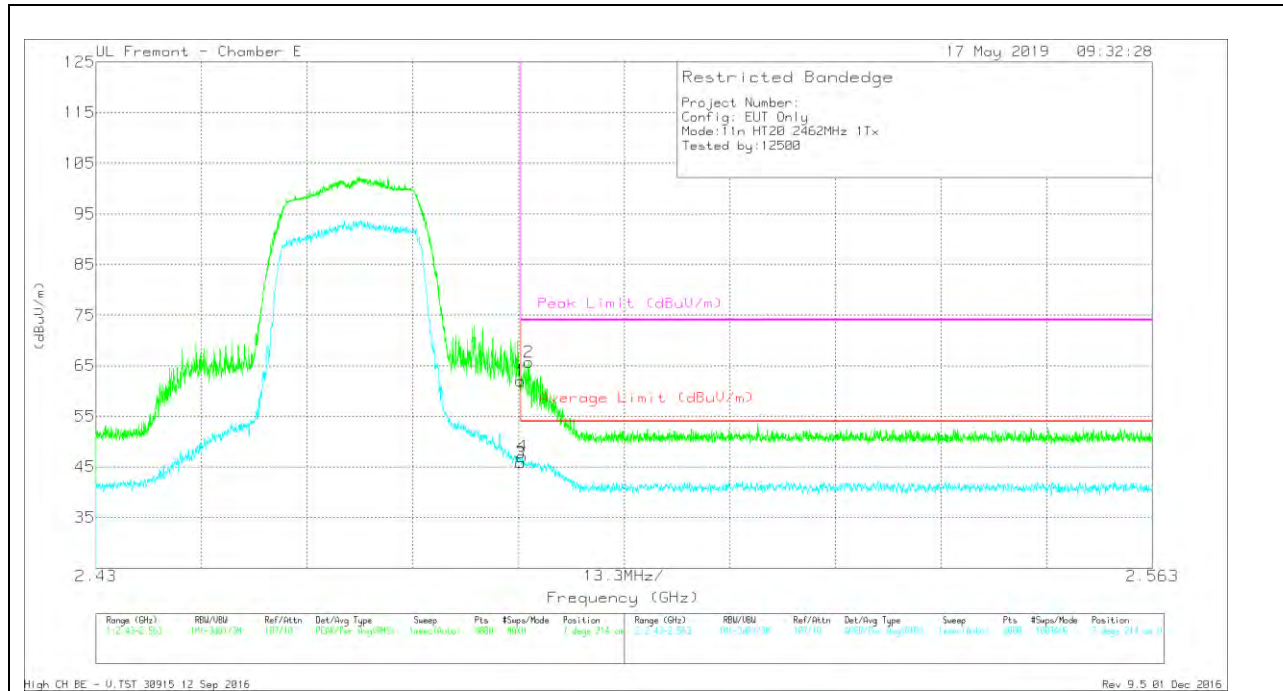
Pk - Peak detector

RMS - RMS detection

High CH BE - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	55.52	Pk	32.8	-26.3	62.02	-	-	74	-11.98	7	214	V
2	* 2.484	59.19	Pk	32.8	-26.3	65.69	-	-	74	-8.31	7	214	V
3	* 2.484	39.3	RMS	32.8	-26.3	45.8	54	-8.2	-	-	7	214	V
4	* 2.484	40.56	RMS	32.8	-26.3	47.06	54	-6.94	-	-	7	214	V

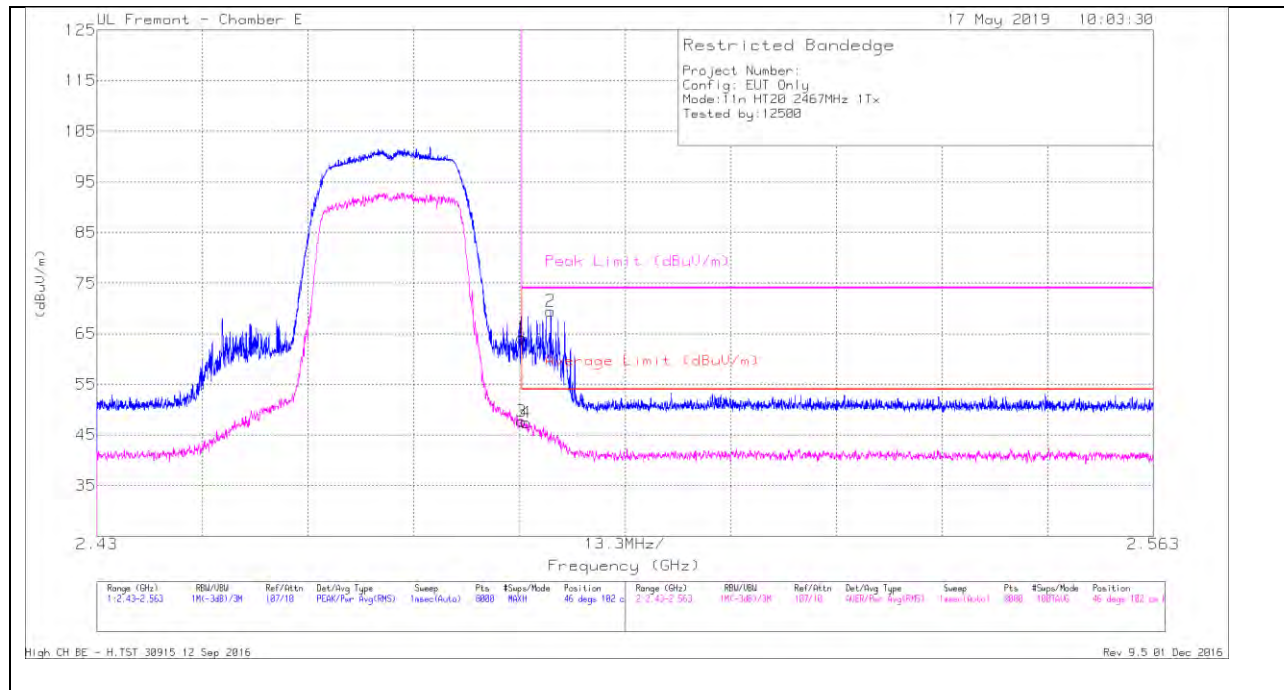
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

High CH BE - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

BANDEDGE (HIGH CHANNEL, CH 12)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	57.74	Pk	32.8	-26.3	64.24	-	-	74	-9.76	46	102	H
2	* 2.487	62.97	Pk	32.8	-26.3	69.47	-	-	74	-4.53	46	102	H
3	* 2.484	41.13	RMS	32.8	-26.3	47.63	54	-6.37	-	-	46	102	H
4	* 2.484	40.9	RMS	32.8	-26.3	47.4	54	-6.6	-	-	46	102	H

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

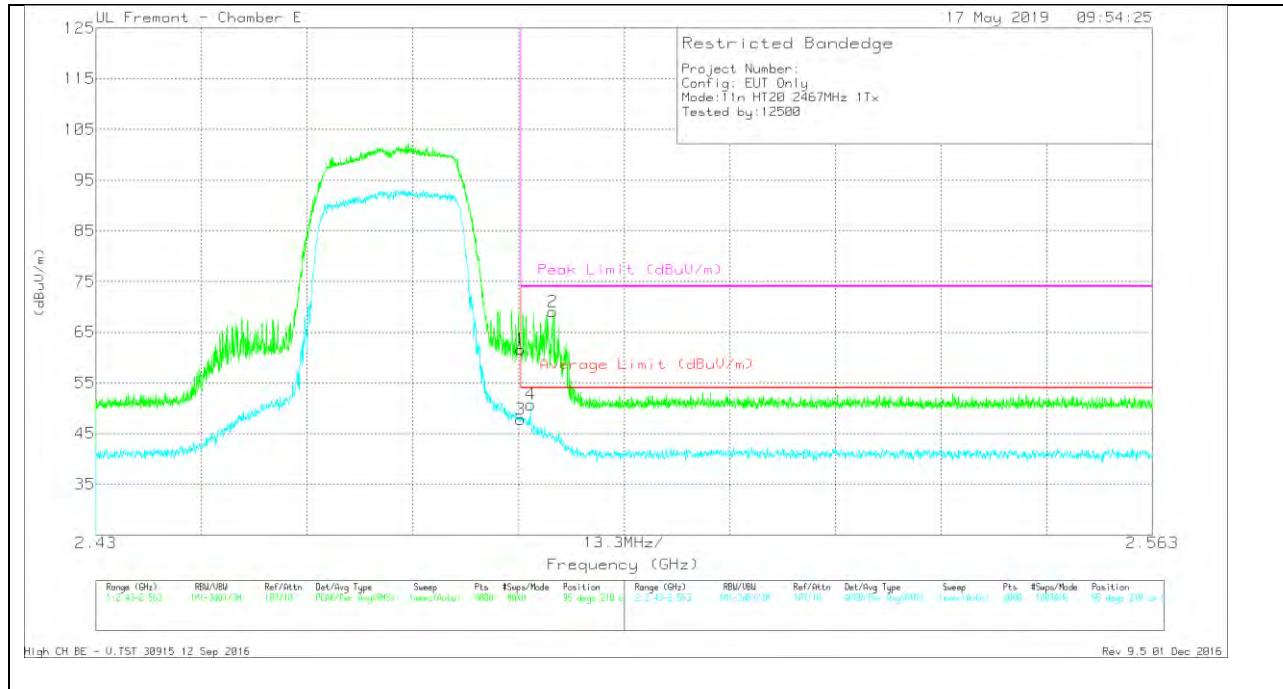
Pk - Peak detector

RMS - RMS detection

High CH BE - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	55.11	Pk	32.8	-26.3	61.61	-	-	74	-12.39	95	210	V
2	* 2.487	62.58	Pk	32.8	-26.3	69.08	-	-	74	-4.92	95	210	V
3	* 2.484	41.33	RMS	32.8	-26.3	47.83	54	-6.17	-	-	95	210	V
4	* 2.485	44.23	RMS	32.8	-26.3	50.73	54	-3.27	-	-	95	210	V

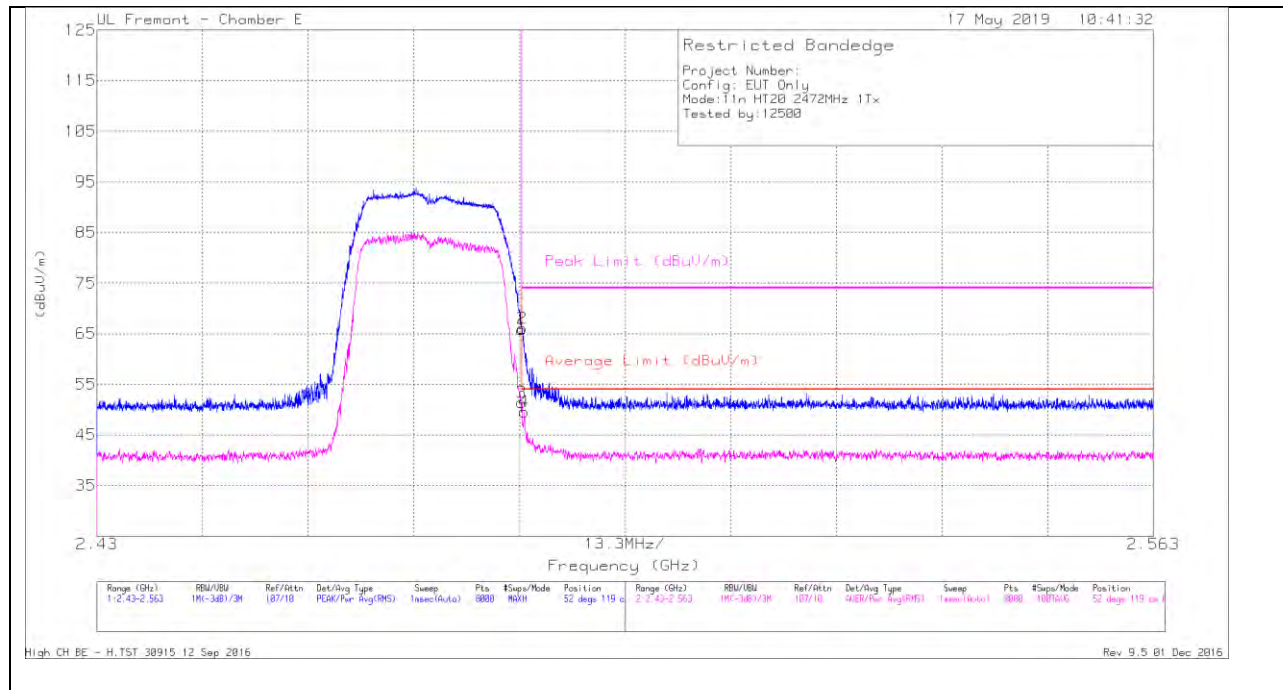
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

High CH BE - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

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

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	59.36	Pk	32.8	-26.3	65.86	-	-	74	-8.14	52	119	H
2	* 2.484	59.57	Pk	32.8	-26.3	66.07	-	-	74	-7.93	52	119	H
3	* 2.484	44.9	RMS	32.8	-26.3	51.4	54	-2.6	-	-	52	119	H
4	* 2.484	43.03	RMS	32.8	-26.3	49.53	54	-4.47	-	-	52	119	H

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

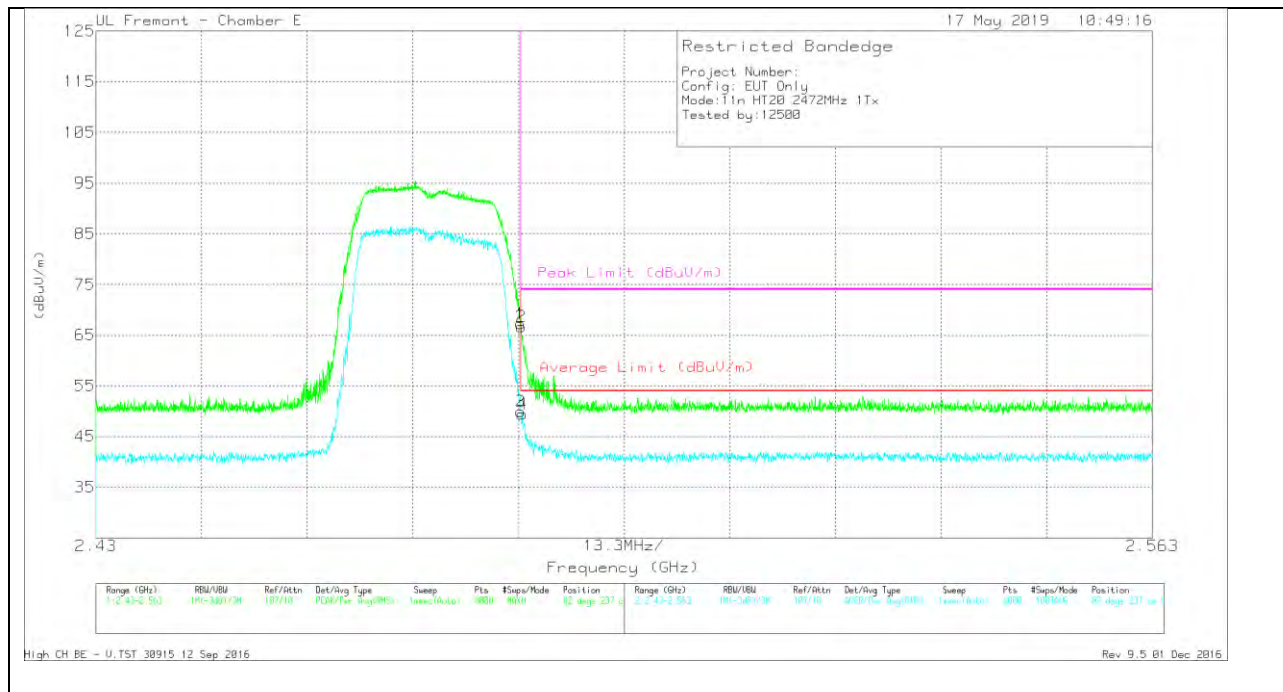
Pk - Peak detector

RMS - RMS detection

High CH BE - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	60.78	Pk	32.8	-26.3	67.28	-	-	74	-6.72	82	237	V
2	* 2.484	60.16	Pk	32.8	-26.3	66.66	-	-	74	-7.34	82	237	V
3	* 2.484	43.46	RMS	32.8	-26.3	49.96	54	-4.04	-	-	82	237	V
4	* 2.484	42.88	RMS	32.8	-26.3	49.38	54	-4.62	-	-	82	237	V

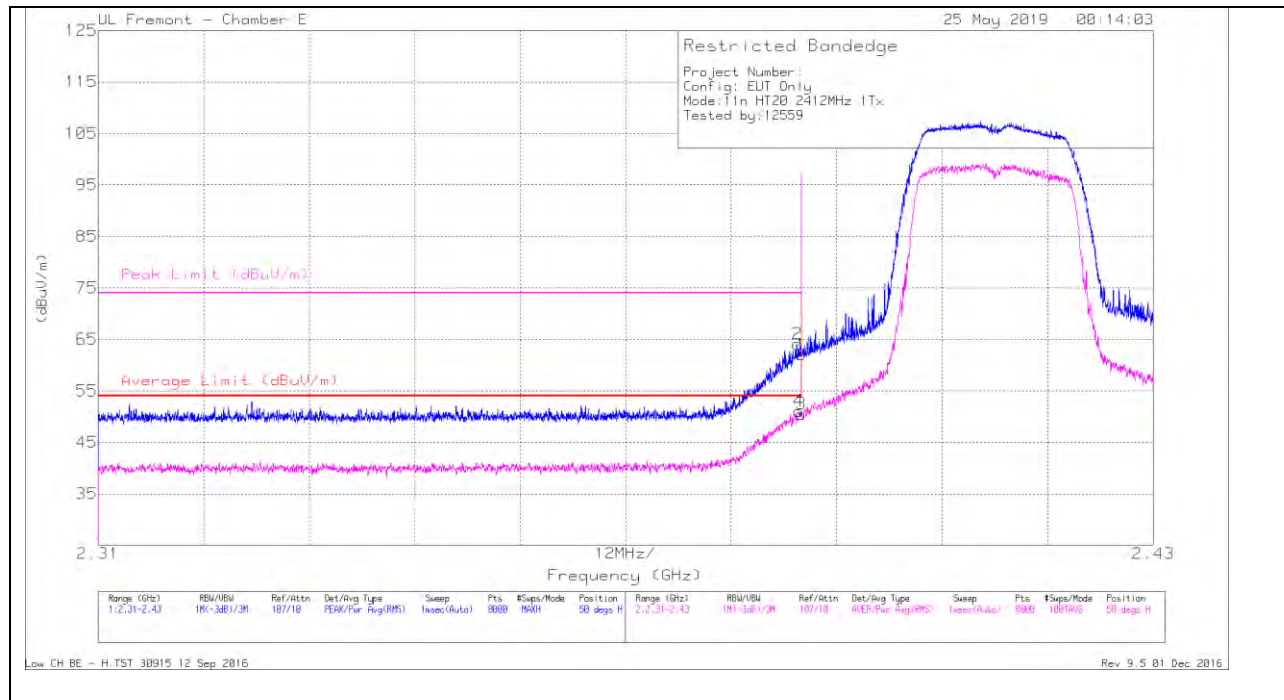
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

High CH BE - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

1TX Antenna 5 MODE**BANDEDGE (LOW CHANNEL, CH 1)****HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/FiltriP ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	55.96	Pk	32.3	-26.2	62.06	-	-	74	-11.94	50	128	H
2	* 2.39	57.99	Pk	32.3	-26.2	64.09	-	-	74	-9.91	50	128	H
3	* 2.39	44.41	RMS	32.3	-26.2	50.51	54	-3.49	-	-	50	128	H
4	* 2.39	44.99	RMS	32.3	-26.2	51.09	54	-2.91	-	-	50	128	H

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

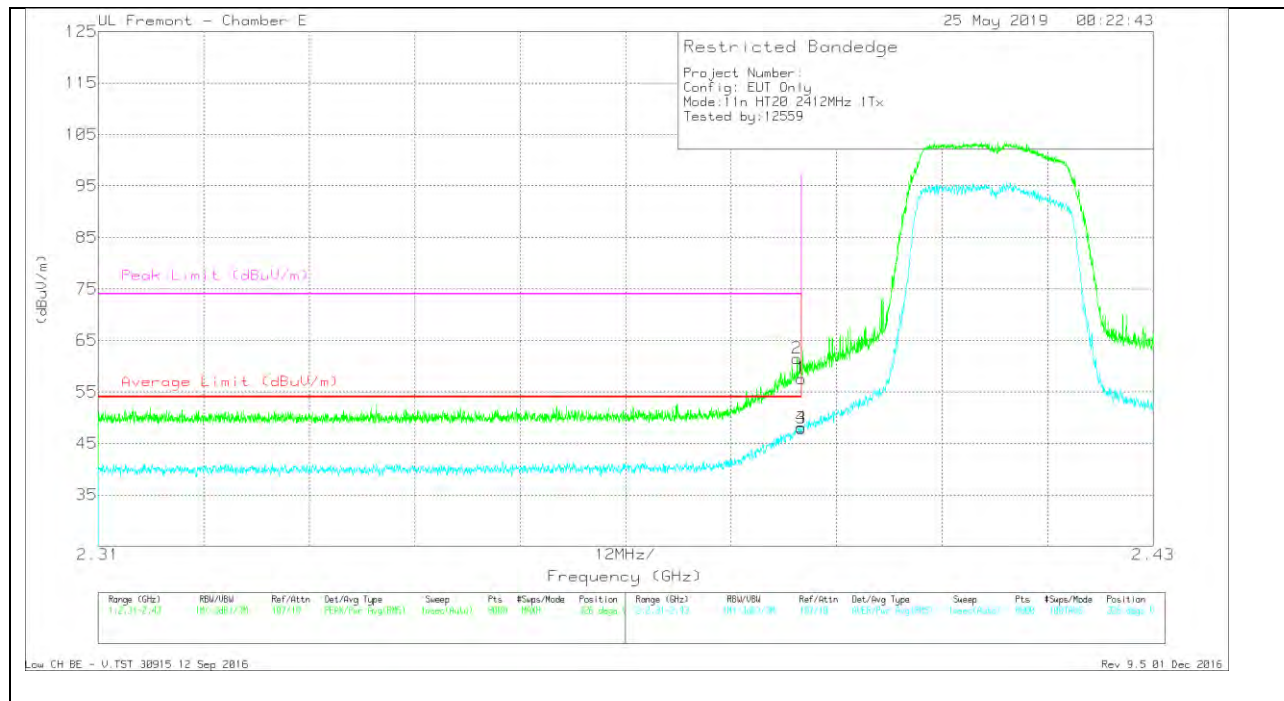
Pk - Peak detector

RMS - RMS detection

Low CH BE - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Filter/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.389	55.4	Pk	32.3	-26.2	61.5	-	-	74	-12.5	326	355	V
1	* 2.39	51.5	Pk	32.3	-26.2	57.6	-	-	74	-16.4	326	355	V
3	* 2.39	41.87	RMS	32.3	-26.2	47.97	54	-6.03	-	-	326	355	V
4	* 2.39	42.04	RMS	32.3	-26.2	48.14	54	-5.86	-	-	326	355	V

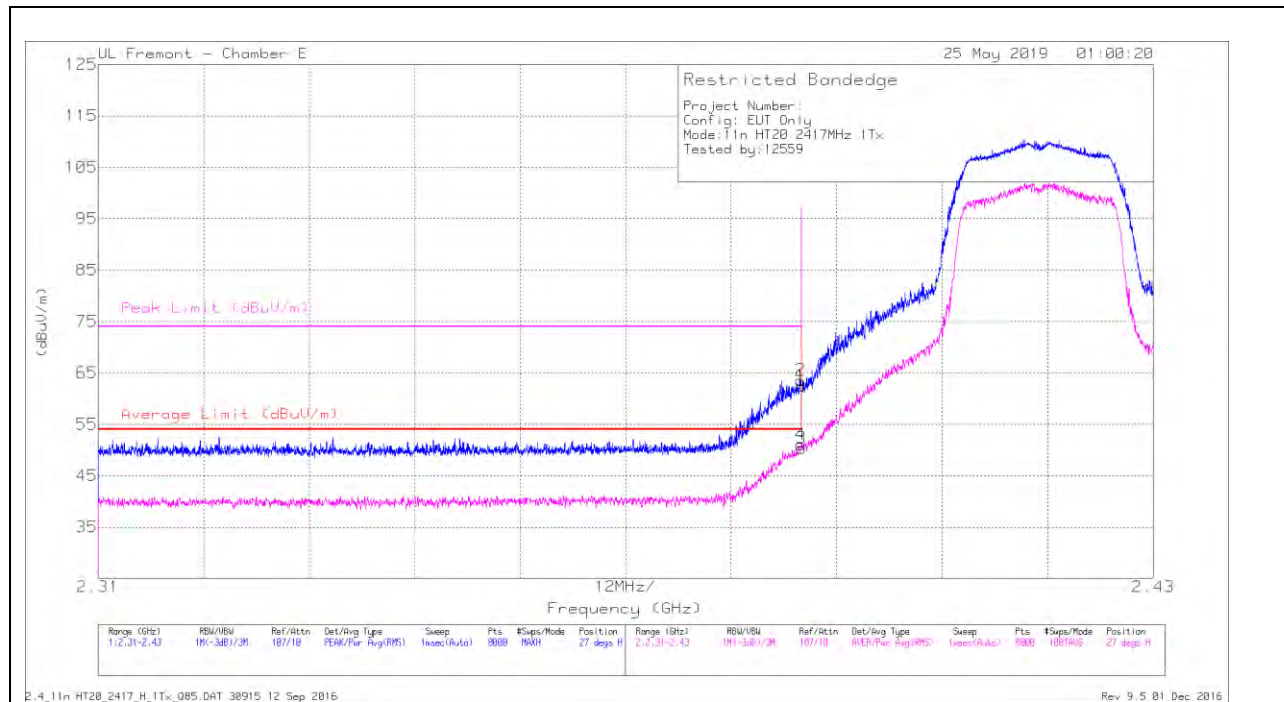
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

Low CH BE - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

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

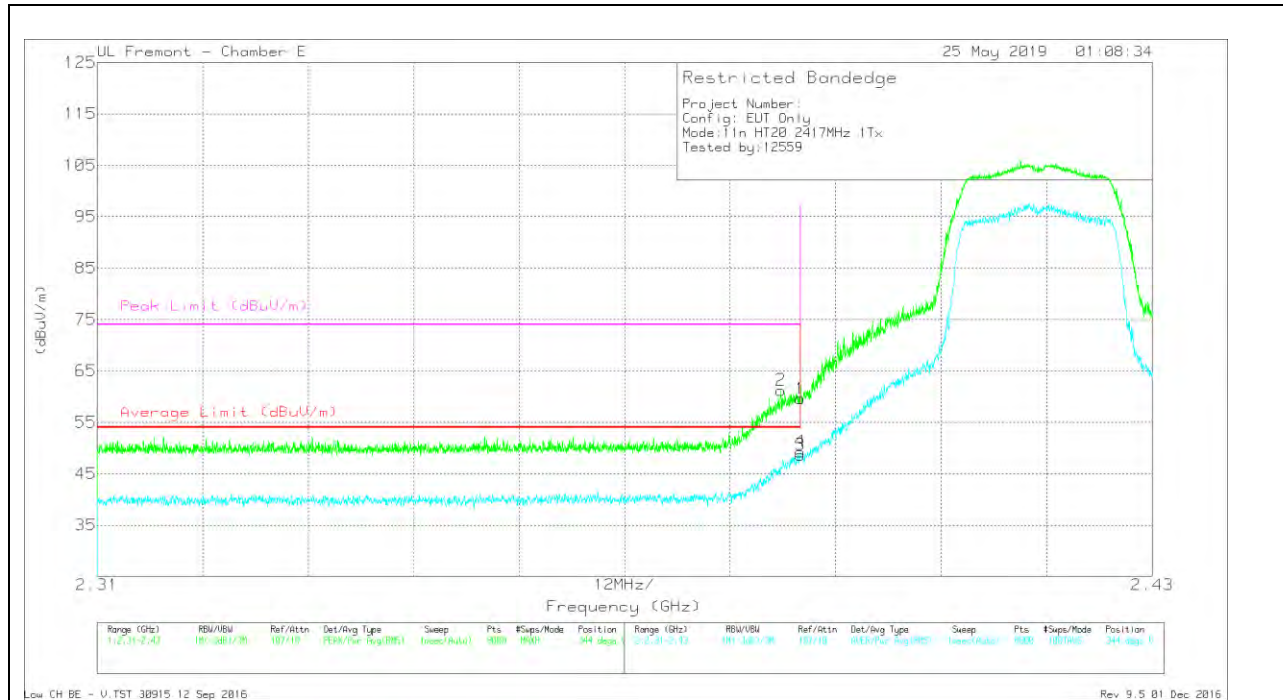
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	56.37	Pk	32.3	-26.2	62.47	-	-	74	-11.53	27	115	H
2	* 2.39	57.47	Pk	32.3	-26.2	63.57	-	-	74	-10.43	27	115	H
3	* 2.39	44.29	RMS	32.3	-26.2	50.39	54	-3.61	-	-	27	115	H
4	* 2.39	44.96	RMS	32.3	-26.2	51.06	54	-2.94	-	-	27	115	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

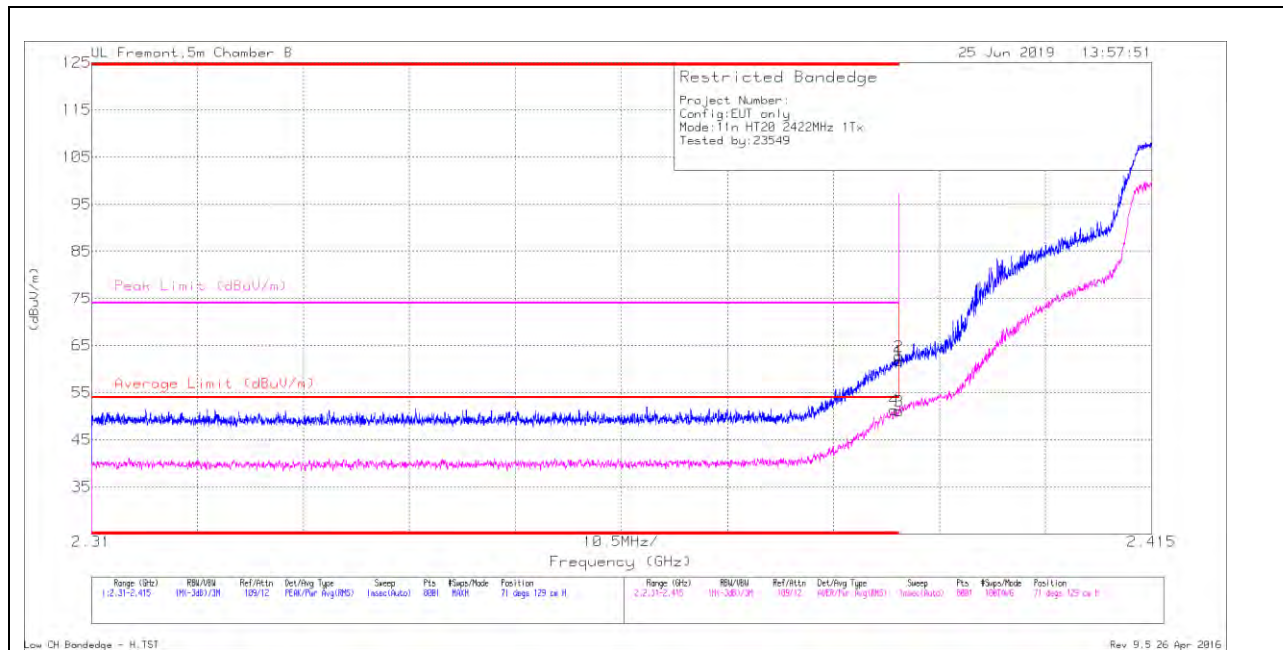


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	53.5	Pk	32.3	-26.2	59.6	-	-	74	-14.4	344	360	V
2	* 2.388	55.13	Pk	32.3	-26.2	61.23	-	-	74	-12.77	344	360	V
3	* 2.39	42.58	RMS	32.3	-26.2	48.68	54	-5.32	-	-	344	360	V
4	* 2.39	43.18	RMS	32.3	-26.2	49.28	54	-4.72	-	-	344	360	V

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

Pk - Peak detector

RMS - RMS detection

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

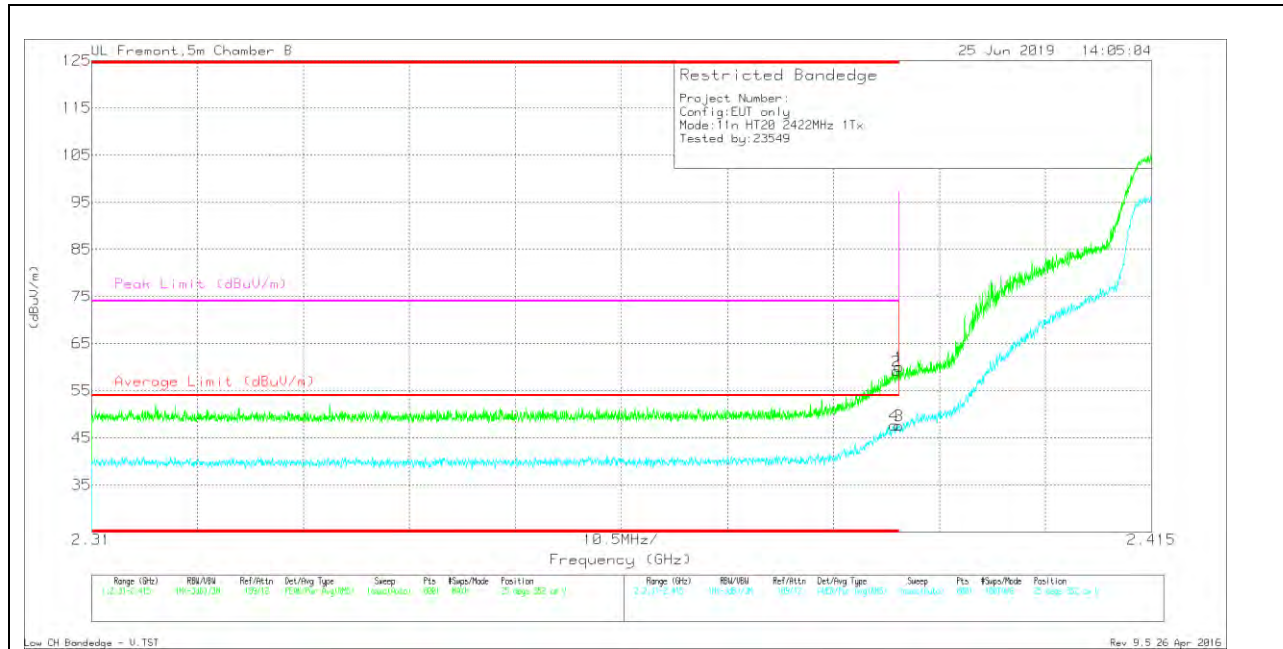
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	48.75	Pk	31.9	-18.9	61.75	-	-	74	-12.25	71	129	H
2	* 2.39	49.73	Pk	31.9	-18.9	62.73	-	-	74	-11.27	71	129	H
3	* 2.39	38.09	RMS	31.9	-18.9	51.09	54	-2.91	-	-	71	129	H
4	* 2.39	38.36	RMS	31.9	-18.9	51.36	54	-2.64	-	-	71	129	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

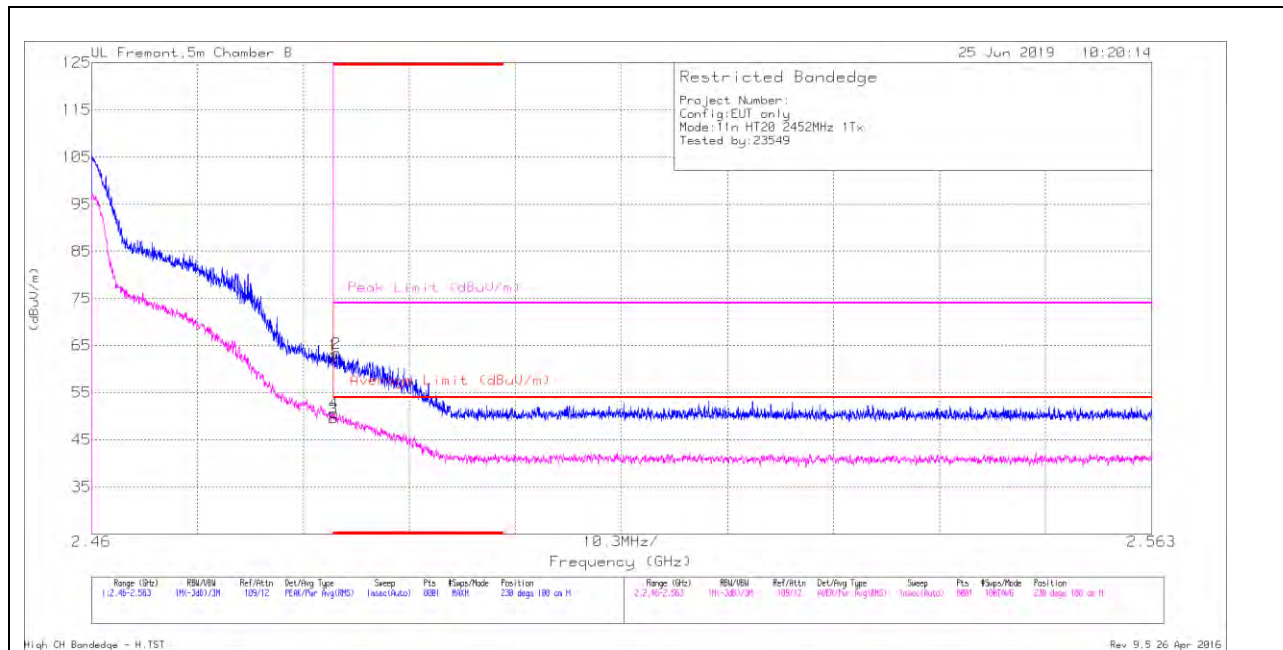


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT344 (dB/m)	Amp/Cbl/Filt/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	47.06	Pk	31.9	-18.9	60.06	-	-	74	-13.94	25	352	V
2	* 2.39	46.17	Pk	31.9	-18.9	59.17	-	-	74	-14.83	25	352	V
3	* 2.39	34.57	RMS	31.9	-18.9	47.57	54	-6.43	-	-	25	352	V
4	* 2.39	34.66	RMS	31.9	-18.9	47.66	54	-6.34	-	-	25	352	V

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

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 9)**HORIZONTAL RESULT**

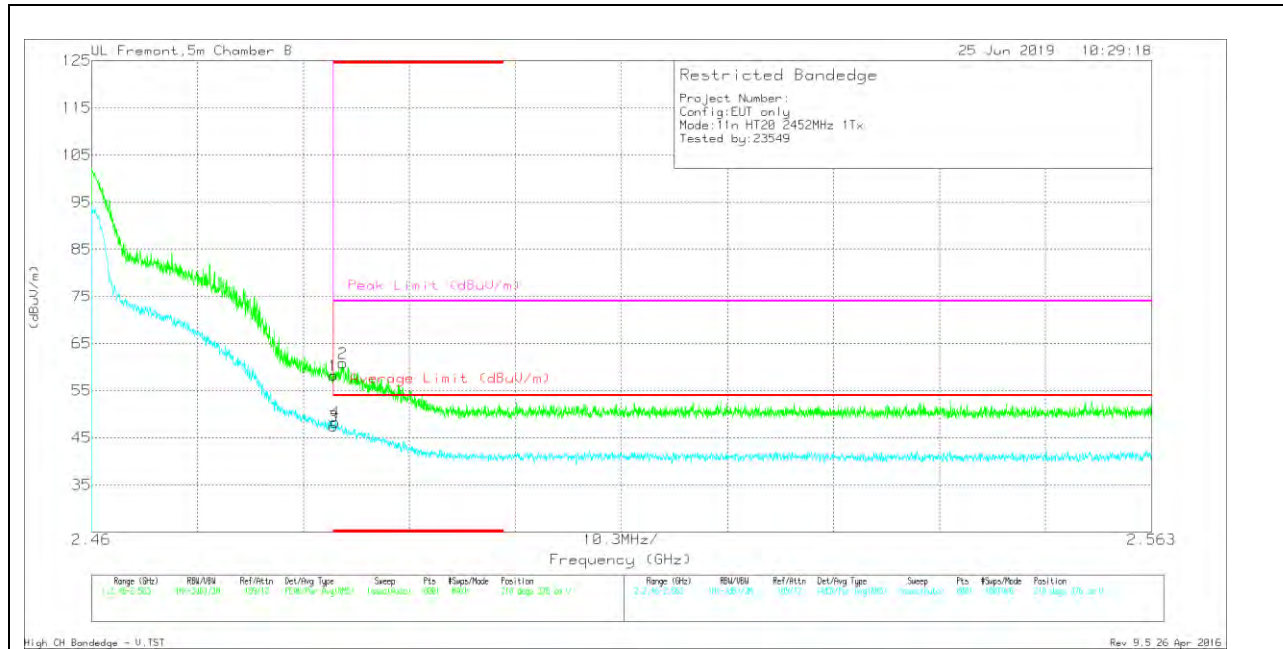
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	49.63	Pk	32.3	-18.9	63.03	-	-	74	-10.97	230	108	H
2	* 2.484	50	Pk	32.3	-18.9	63.4	-	-	74	-10.6	230	108	H
3	* 2.484	36.16	RMS	32.3	-18.9	49.56	54	-4.44	-	-	230	108	H
4	* 2.484	37.27	RMS	32.3	-18.9	50.67	54	-3.33	-	-	230	108	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

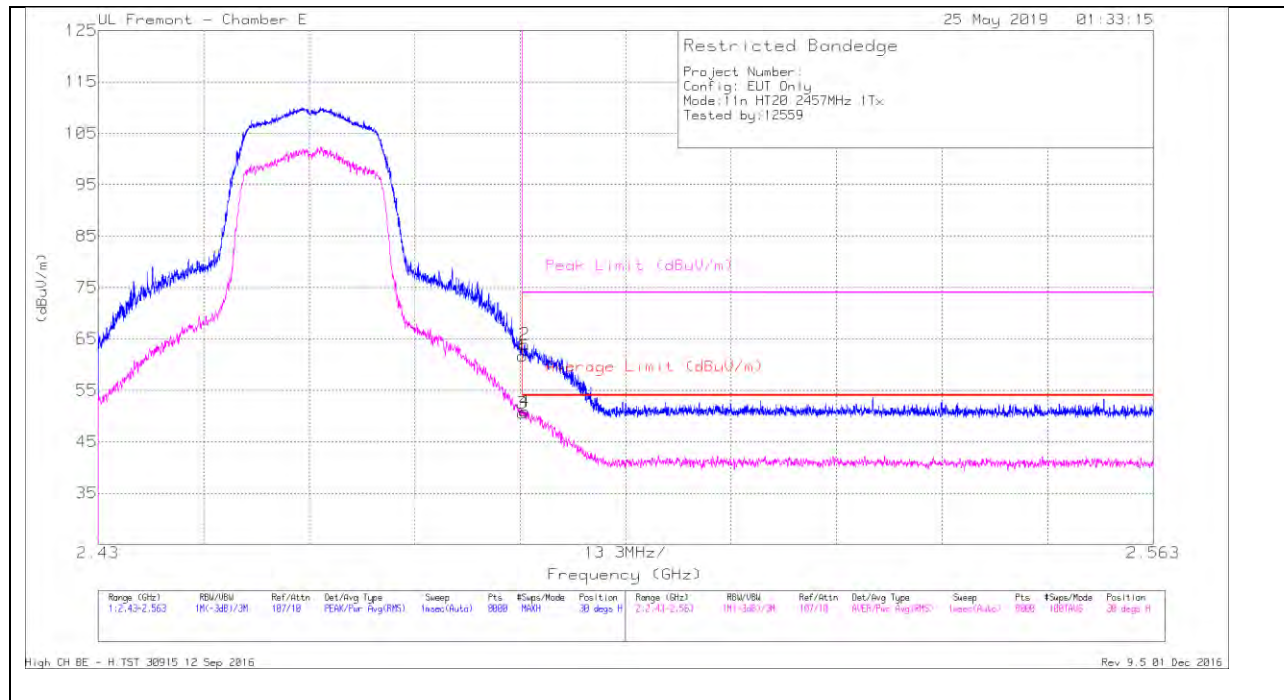


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	44.83	Pk	32.3	-18.9	58.23	-	-	74	-15.77	218	376	V
2	* 2.484	47.46	Pk	32.3	-18.9	60.86	-	-	74	-13.14	218	376	V
3	* 2.484	34.07	RMS	32.3	-18.9	47.47	54	-6.53	-	-	218	376	V
4	* 2.484	34.94	RMS	32.3	-18.9	48.34	54	-5.66	-	-	218	376	V

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

Pk - Peak detector

RMS - RMS detection

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

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	55.24	Pk	32.8	-26.3	61.74	-	-	74	-12.26	30	116	H
2	* 2.484	57.41	Pk	32.8	-26.3	63.91	-	-	74	-10.09	30	116	H
3	* 2.484	44.08	RMS	32.8	-26.3	50.58	54	-3.42	-	-	30	116	H
4	* 2.484	44.45	RMS	32.8	-26.3	50.95	54	-3.05	-	-	30	116	H

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

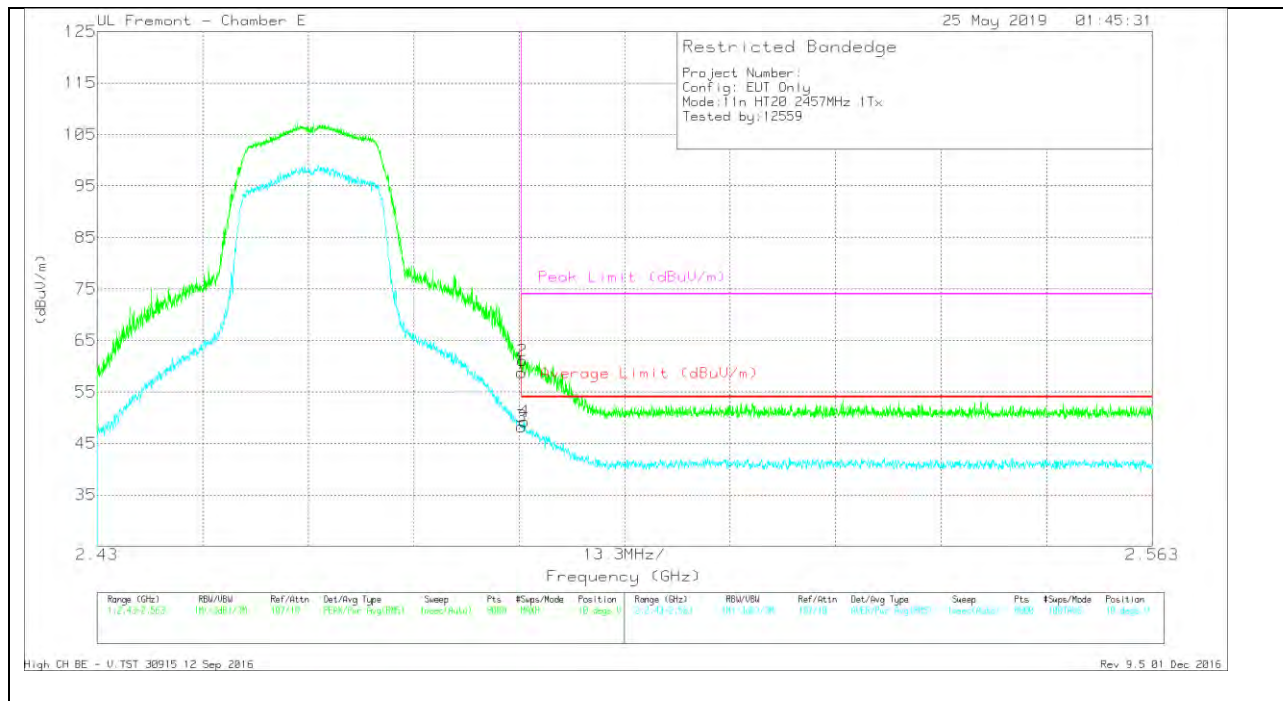
Pk - Peak detector

RMS - RMS detection

High CH BE - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Filt/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	52.32	Pk	32.8	-26.3	58.82	-	-	74	-15.18	10	374	V
2	* 2.484	54.58	Pk	32.8	-26.3	61.08	-	-	74	-12.92	10	374	V
3	* 2.484	41.77	RMS	32.8	-26.3	48.27	54	-5.73	-	-	10	374	V
4	* 2.484	42.74	RMS	32.8	-26.3	49.24	54	-4.76	-	-	10	374	V

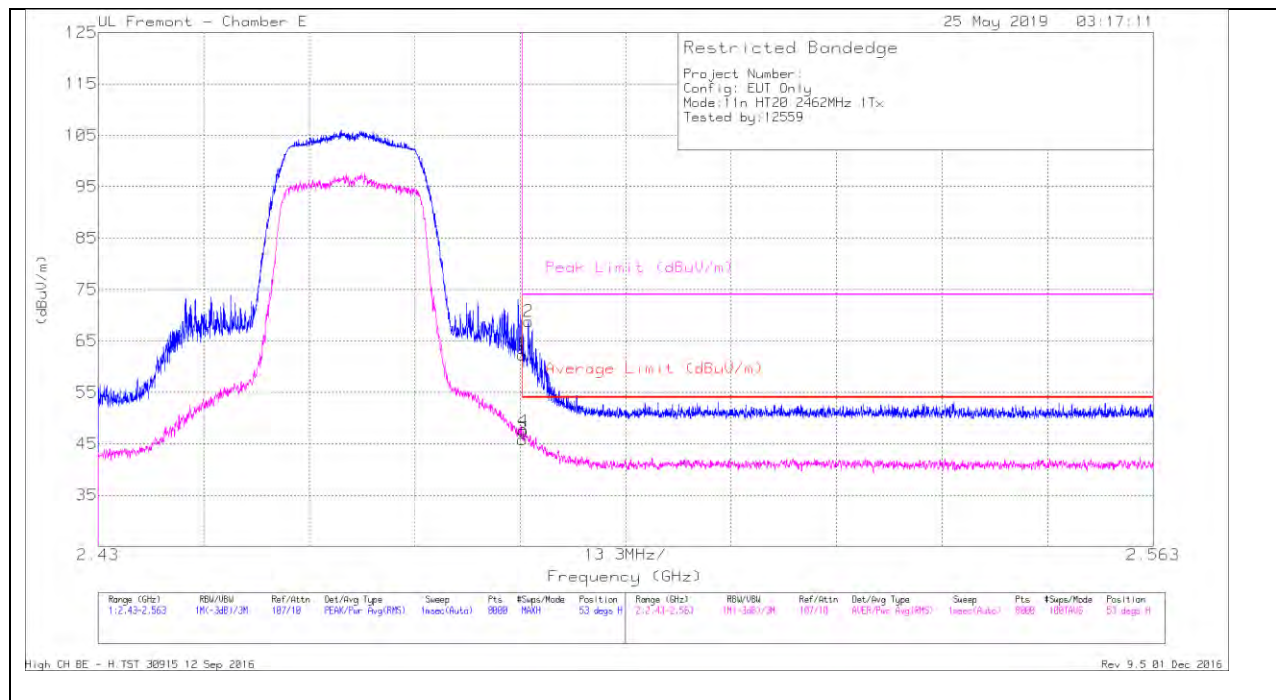
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

High CH BE - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

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

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filt/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	55.86	Pk	32.8	-26.3	62.36	-	-	74	-11.64	53	111	H
2	* 2.484	62.29	Pk	32.8	-26.3	68.79	-	-	74	-5.21	53	111	H
3	* 2.484	39.35	RMS	32.8	-26.3	45.85	54	-8.15	-	-	53	111	H
4	* 2.484	41	RMS	32.8	-26.3	47.5	54	-6.5	-	-	53	111	H

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

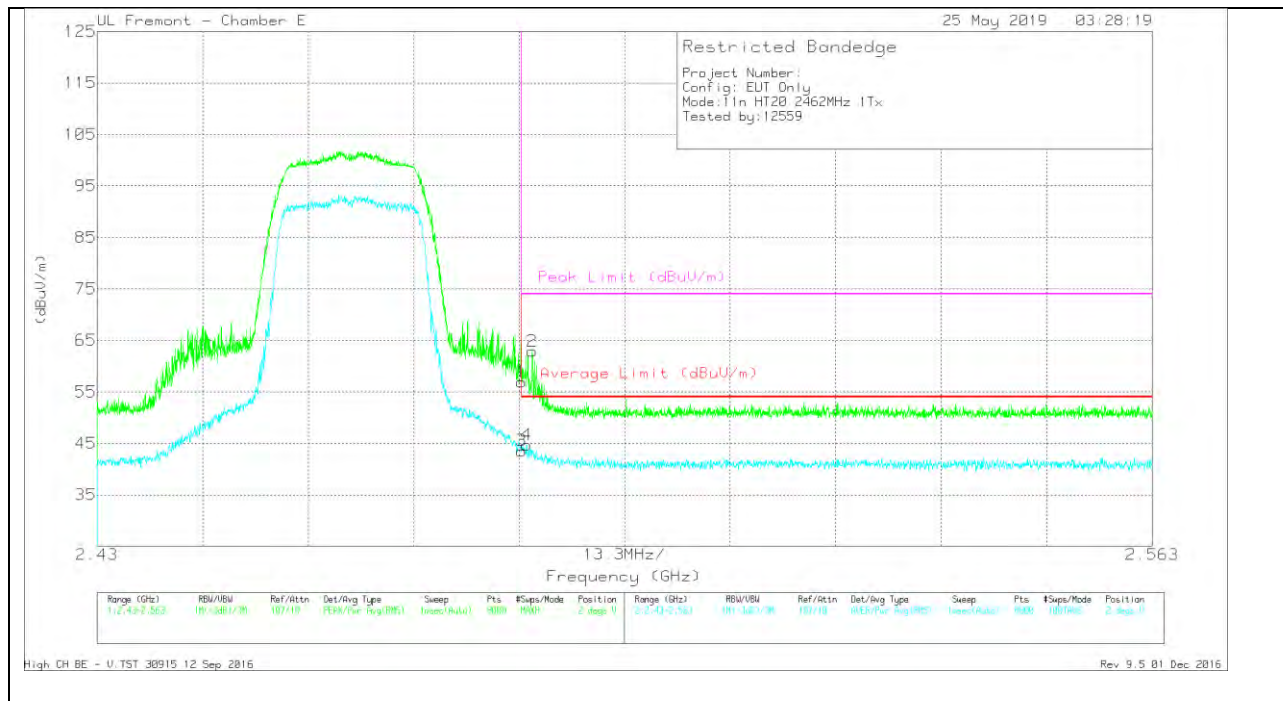
Pk - Peak detector

RMS - RMS detection

High CH BE - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AF T119 (dBm)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBUV/m)	Average Limit (dBUV/m)	Margin (dB)	Peak Limit (dBUV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	50.41	Pk	32.8	-26.3	56.91	-	-	74	-17.09	2	374	V
3	* 2.484	37.04	RMS	32.8	-26.3	43.54	54	-10.46	-	-	2	374	V
4	* 2.484	38.18	RMS	32.8	-26.3	44.68	54	-9.32	-	-	2	374	V
2	* 2.485	56.39	Pk	32.8	-26.3	62.89	-	-	74	-11.11	2	374	V

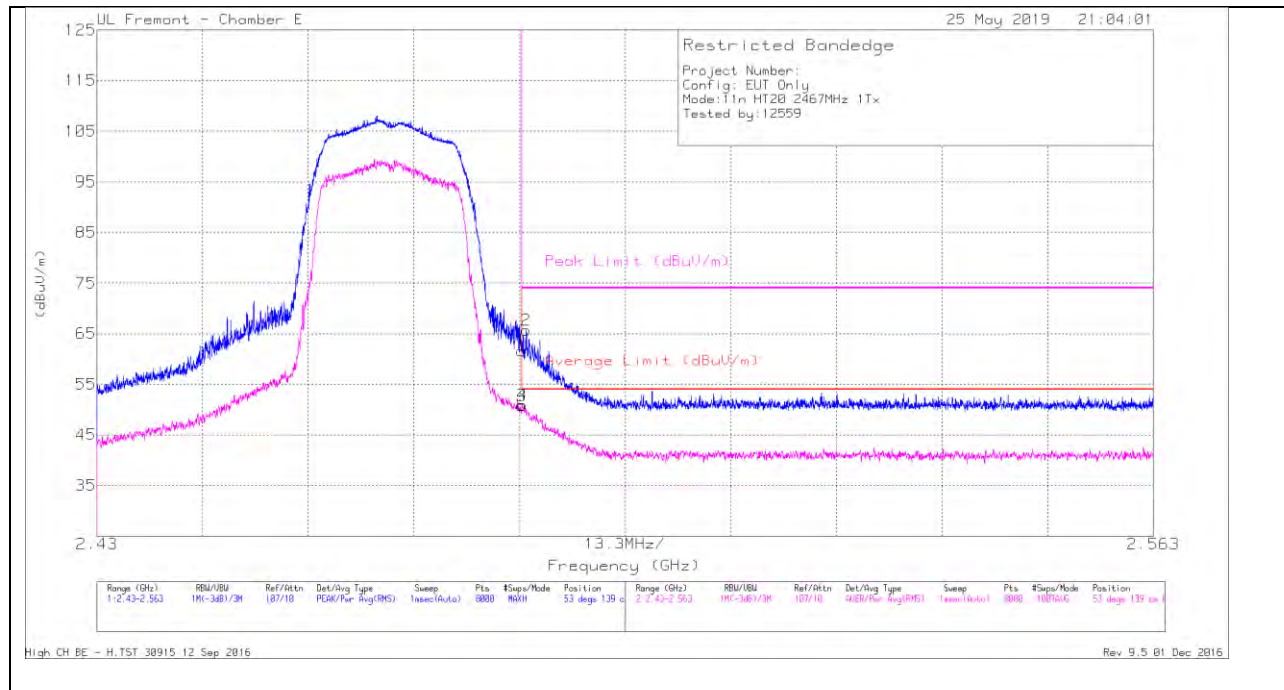
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

High CH BE - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

BANDEDGE (HIGH CHANNEL, CH 12)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	55.13	Pk	32.8	-26.3	61.63	-	-	74	-12.37	53	139	H
2	* 2.484	59.2	Pk	32.8	-26.3	65.7	-	-	74	-8.3	53	139	H
3	* 2.484	44.26	RMS	32.8	-26.3	50.76	54	-3.24	-	-	53	139	H
4	* 2.484	44.36	RMS	32.8	-26.3	50.86	54	-3.14	-	-	53	139	H

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

Pk - Peak detector

RMS - RMS detection

High CH BE - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

UL Fremont - Chamber E

25 May 2019 21:11:32

Restricted Bandedge

Project Number:
Config: EUT Only
Mode: 11n HT20 2467MHz 1Tx
Tested by: 12559

(dBuV/m)

Peak Limit (dBuV/m)

Average Limit (dBuV/m)

13.3MHz/

Frequency (GHz)

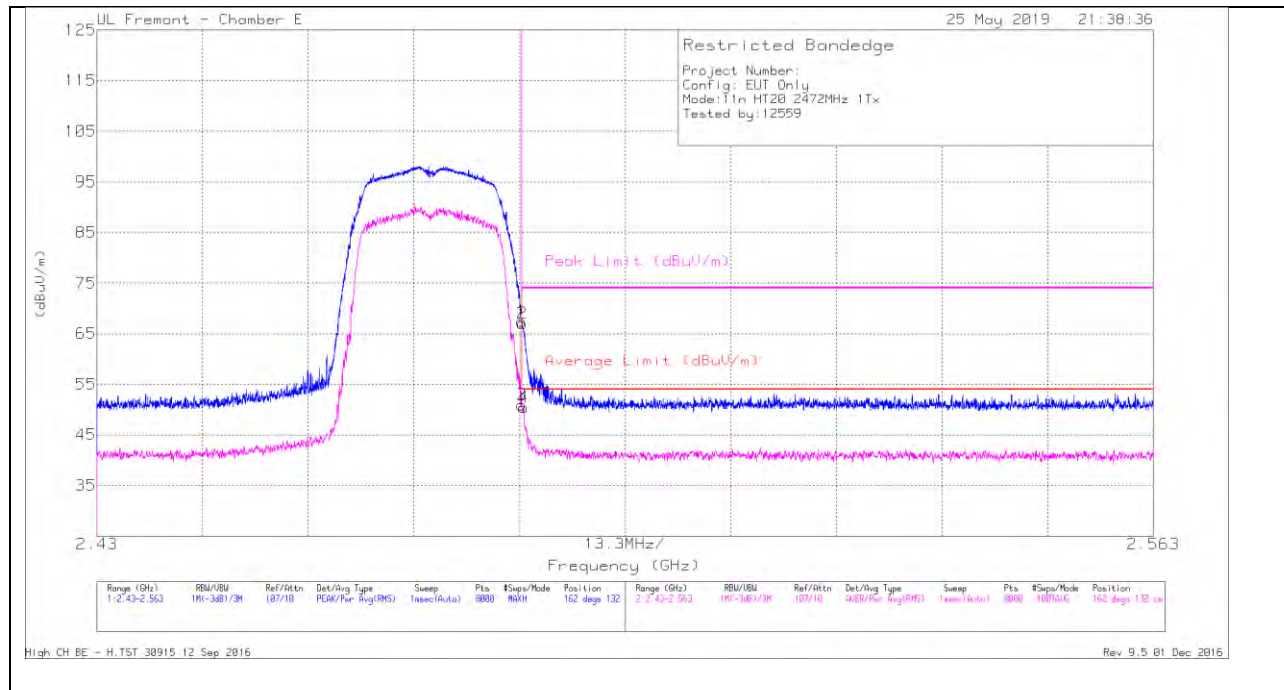
Range (GHz)	RBW/VBW	Ref/AltIn	Det/Agg Type	Sweep	Pts	#Samps/Mode	Position	Range (GHz)	RBW/VBW	Ref/AltIn	Det/Agg Type	Sweep	Pts	#Samps/Mode	Position
1.2-4.2-5.63	100-3000/30	107/10	PCAW/Twr Avgg(WPS)	1ms/Sec (Auto)	10000	10000	0 degs 305 on	2.4-2.563	100-3000/30	107/10	PCAW/Twr Avgg(WPS)	1ms/Sec (Auto)	10000	10000	0 degs 305 on

High CH BE - 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/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degr)	Height (cm)	Polarity
1	* 2.484	56.37	Pk	32.8	-26.3	62.87	-	-	74	-11.13	0	365	V
3	* 2.484	42.57	RMS	32.8	-26.3	49.07	54	-4.93	-	-	0	365	V
4	* 2.484	42.31	RMS	32.8	-26.3	48.81	54	-5.19	-	-	0	365	V
2	* 2.485	57.8	Pk	32.8	-26.3	64.3	-	-	74	-9.7	0	365	V

Rev 9.5 01 Dec 2016

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

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	60.91	Pk	32.8	-26.3	67.41	-	-	74	-6.59	162	132	H
2	* 2.484	60.54	Pk	32.8	-26.3	67.04	-	-	74	-6.96	162	132	H
3	* 2.484	44.45	RMS	32.8	-26.3	50.95	54	-3.05	-	-	162	132	H
4	* 2.484	43.87	RMS	32.8	-26.3	50.37	54	-3.63	-	-	162	132	H

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

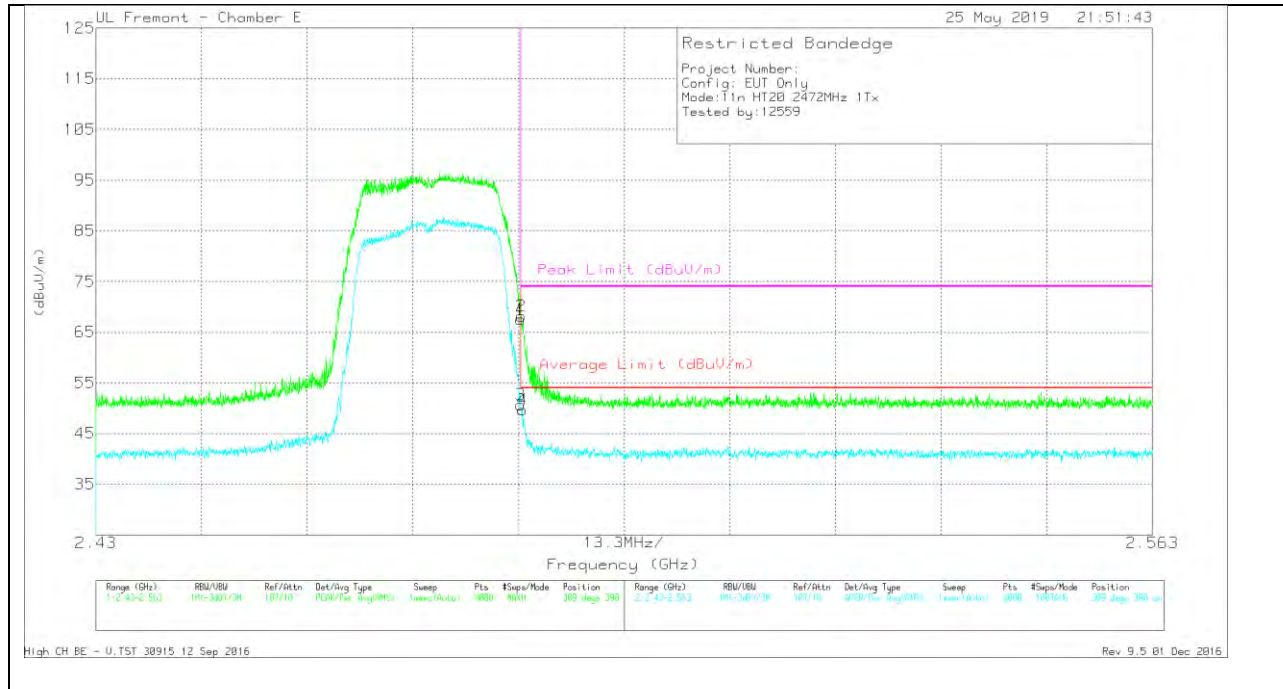
Pk - Peak detector

RMS - RMS detection

High CH BE - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	61.06	Pk	32.8	-26.3	67.56	-	-	74	-6.44	309	390	V
2	* 2.484	61.68	Pk	32.8	-26.3	68.18	-	-	74	-5.82	309	390	V
3	* 2.484	44.19	RMS	32.8	-26.3	50.69	54	-3.31	-	-	309	390	V
4	* 2.484	43.19	RMS	32.8	-26.3	49.69	54	-4.31	-	-	309	390	V

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

Pk - Peak detector

RMS - RMS detection

High CH BE - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016