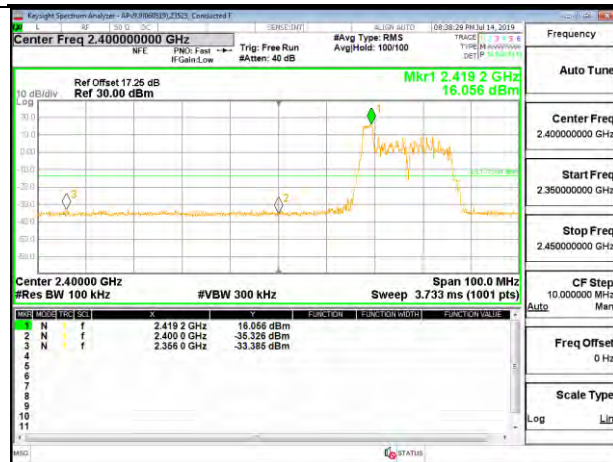
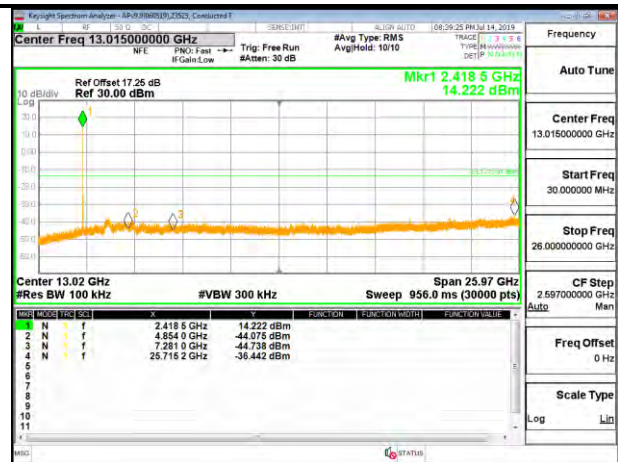
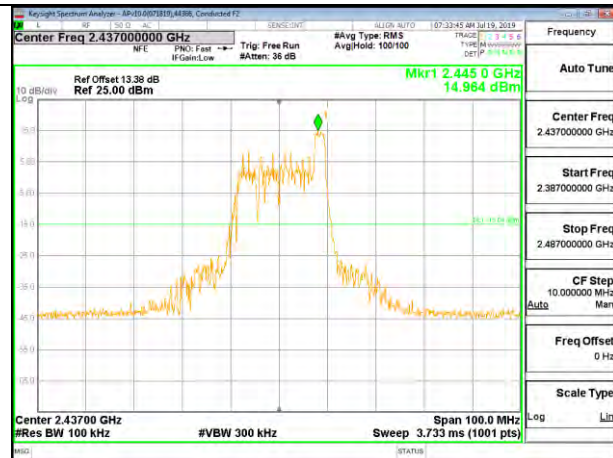




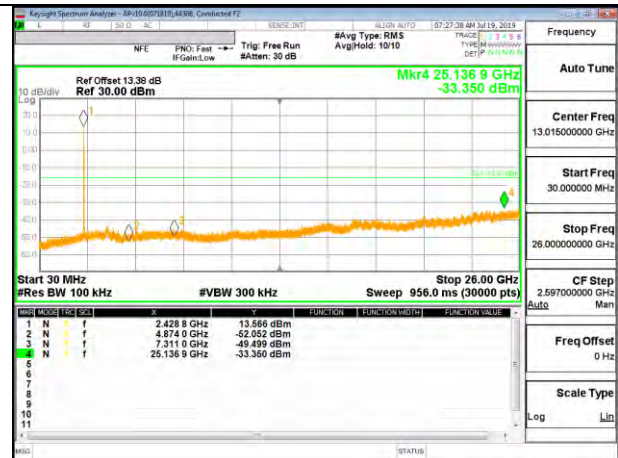
LOW CHANNEL 4 BANDEDGE ANT 4



OUT-OF-BAND LOW CHANNEL 4 ANT 4



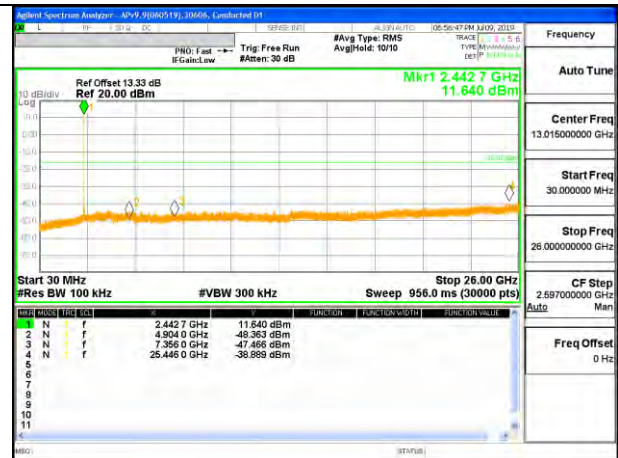
IN-BAND REFERENCE LEVEL ANT 4



OUT-OF-BAND MID CHANNEL ANT 4



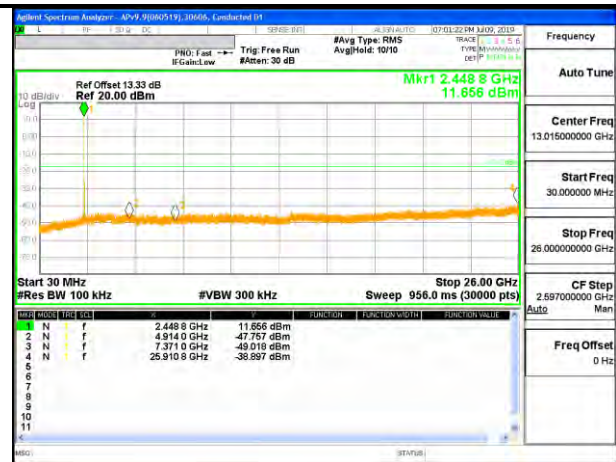
HIGH CHANNEL 9 BANDEDGE ANT 4



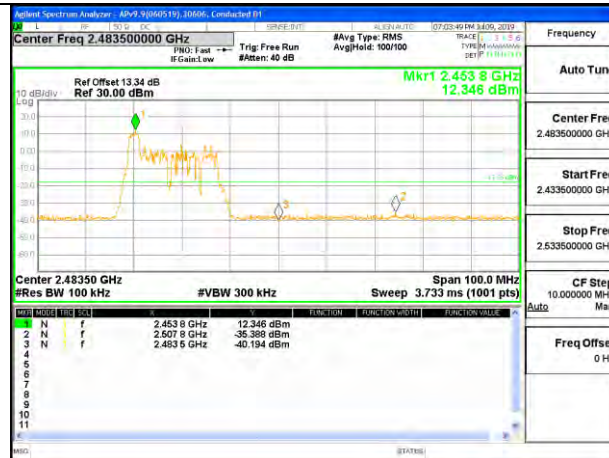
OUT-OF-BAND HIGH CHANNEL 9 ANT 4



HIGH CHANNEL 10 BANDEDGE ANT 4



OUT-OF-BAND HIGH CHANNEL 10 ANT 4



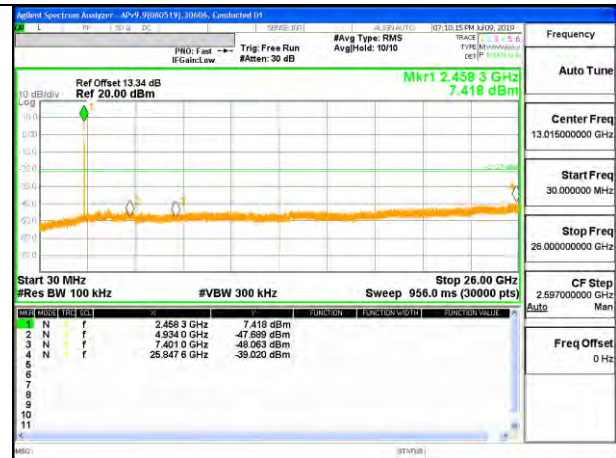
HIGH CHANNEL 11 BANDEDGE ANT 4



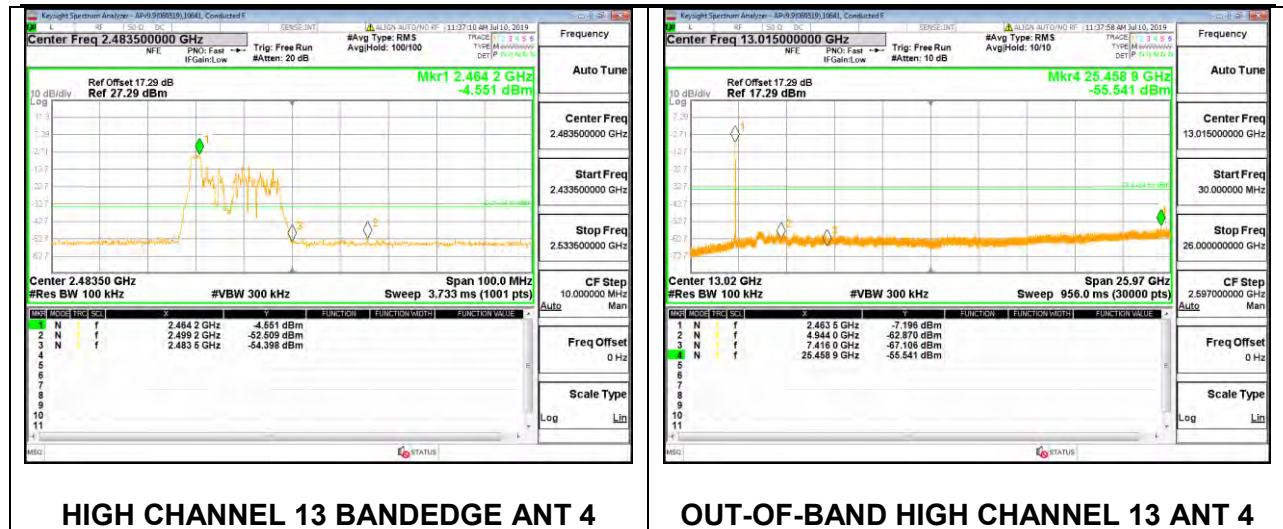
OUT-OF-BAND HIGH CHANNEL 11 ANT 4

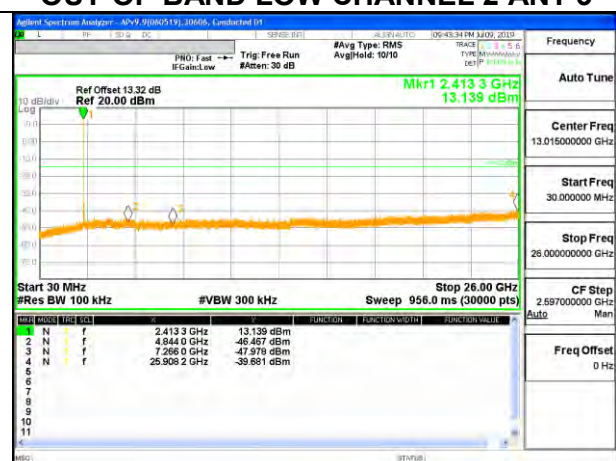
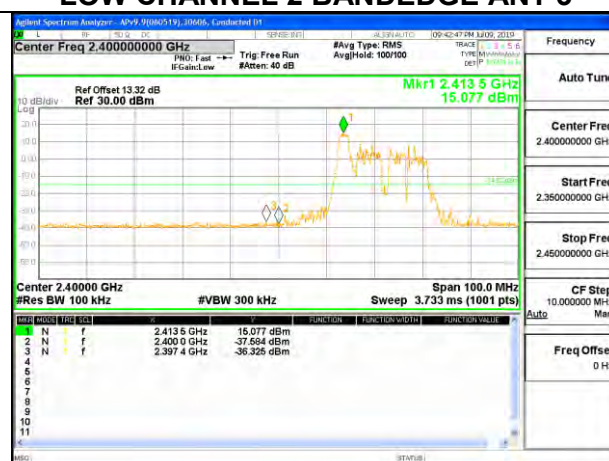
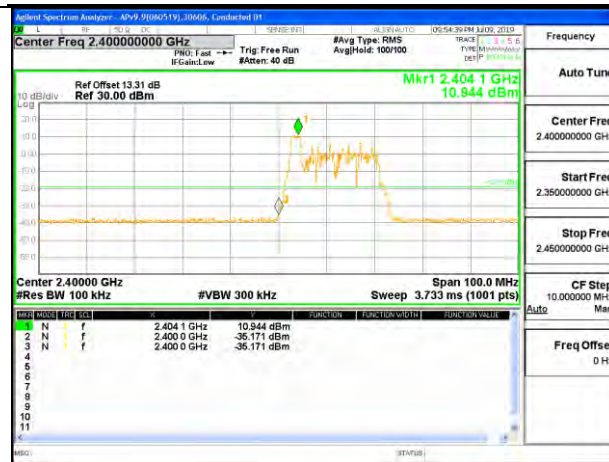


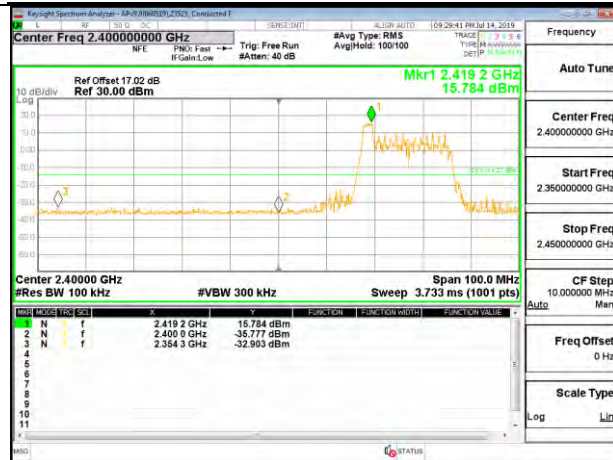
HIGH CHANNEL 12 BANDEDGE ANT 4



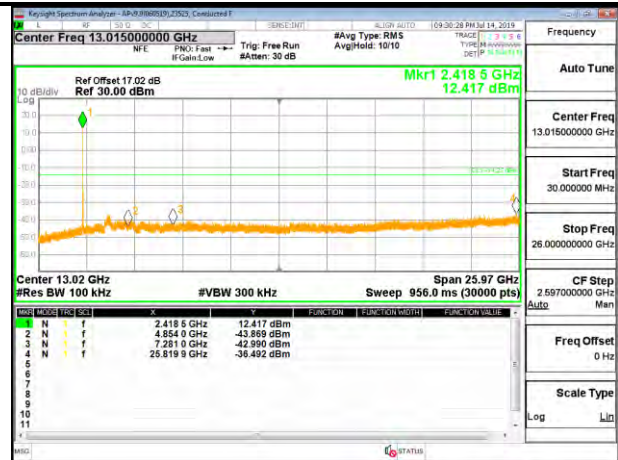
OUT-OF-BAND HIGH CHANNEL 12 ANT 4



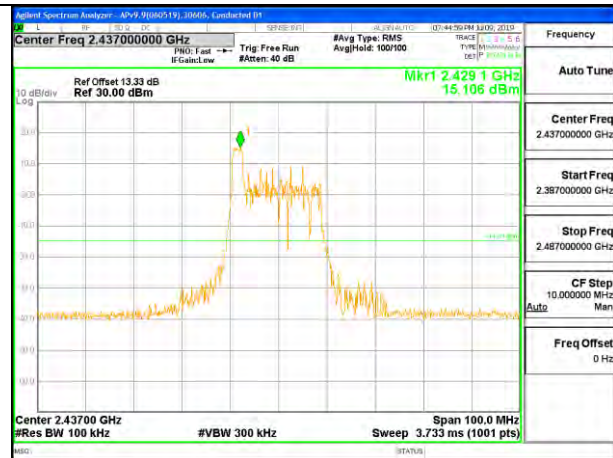




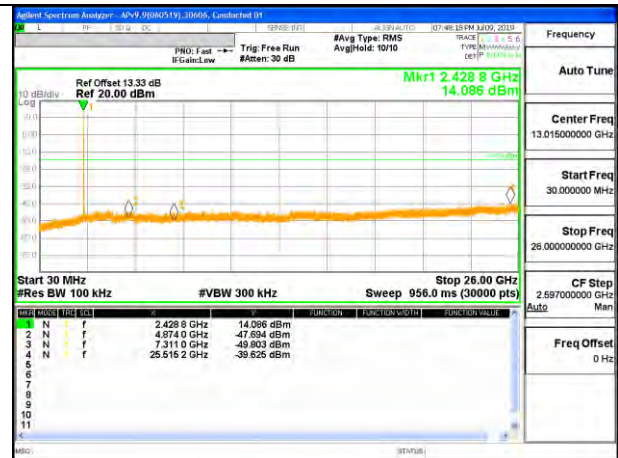
LOW CHANNEL 4 BANDEDGE ANT 3



OUT-OF-BAND LOW CHANNEL 4 ANT 3



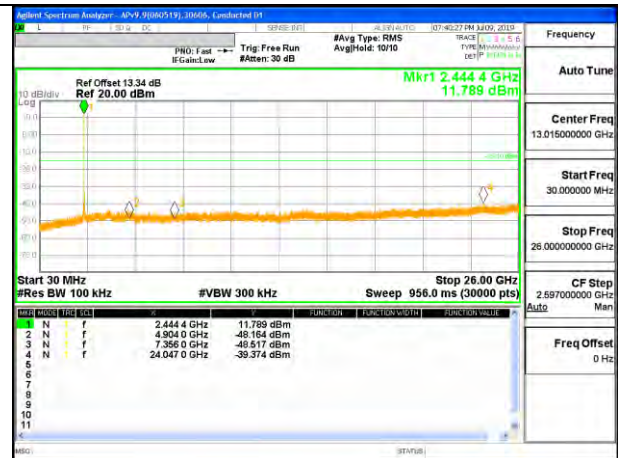
IN-BAND REFERENCE LEVEL ANT 3



OUT-OF-BAND MID CHANNEL ANT 3



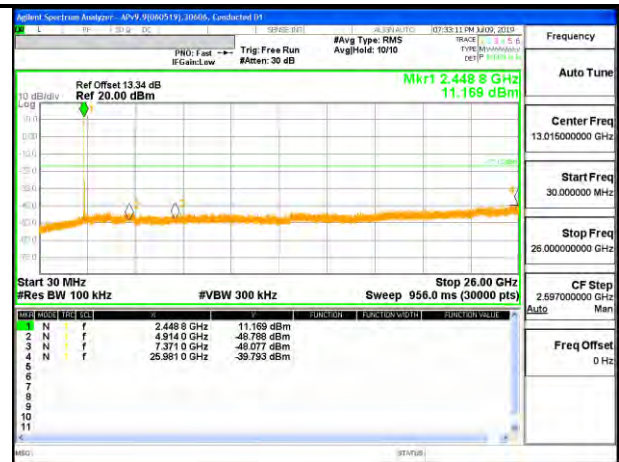
HIGH CHANNEL 9 BANDEDGE ANT 3



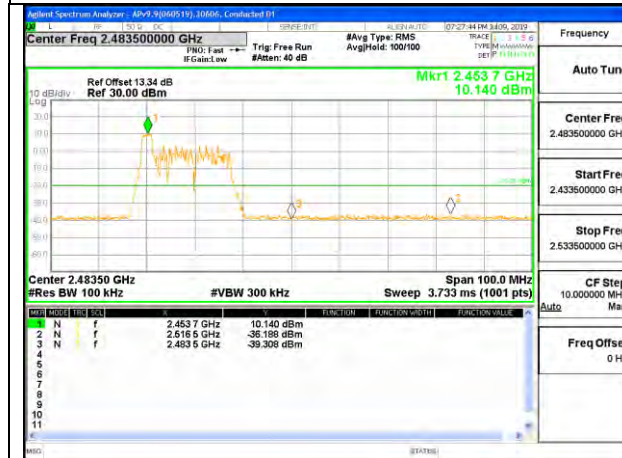
OUT-OF-BAND HIGH CHANNEL 9 ANT 3



HIGH CHANNEL 10 BANDEDGE ANT 3



OUT-OF-BAND HIGH CHANNEL 10 ANT 3



HIGH CHANNEL 11 BANDEDGE ANT 3



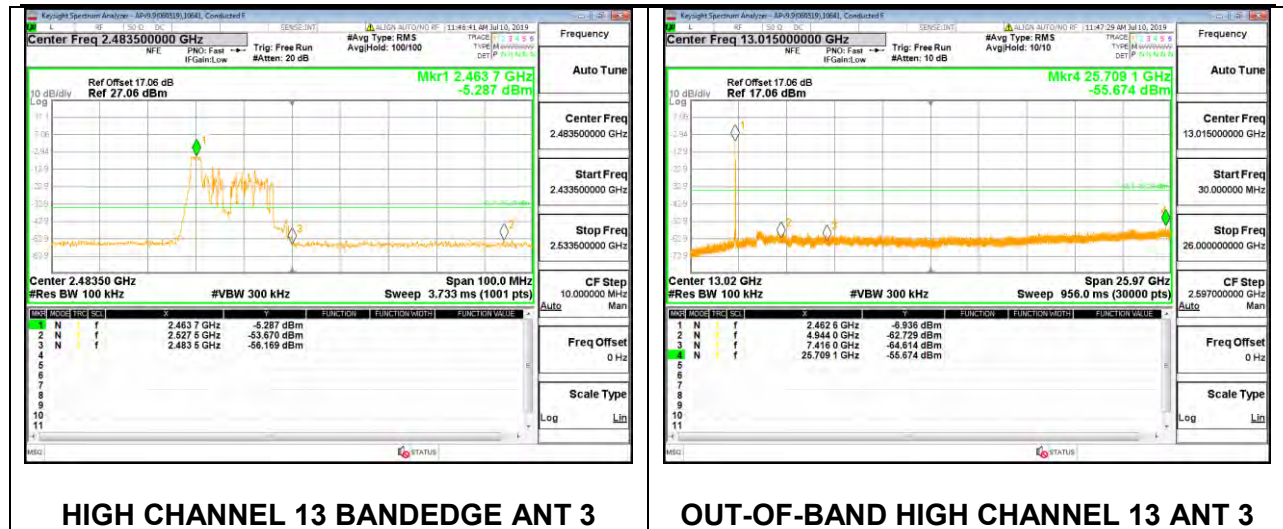
OUT-OF-BAND HIGH CHANNEL 11 ANT 3



HIGH CHANNEL 12 BANDEDGE ANT 3



OUT-OF-BAND HIGH CHANNEL 12 ANT 3



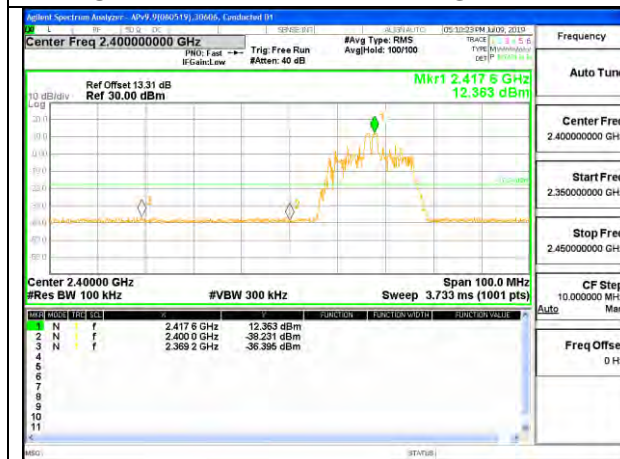
Antenna 4 + Antenna 3 2TX MODE: 26-Tones, RU Index 4



LOW CHANNEL 1 BANDEDGE ANT 4



OUT-OF-BAND LOW CHANNEL 1 ANT 4



LOW CHANNEL 2 BANDEDGE ANT 4



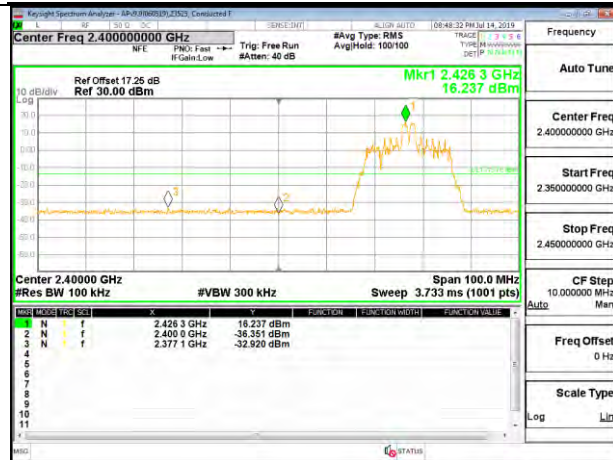
OUT-OF-BAND LOW CHANNEL 2 ANT 4



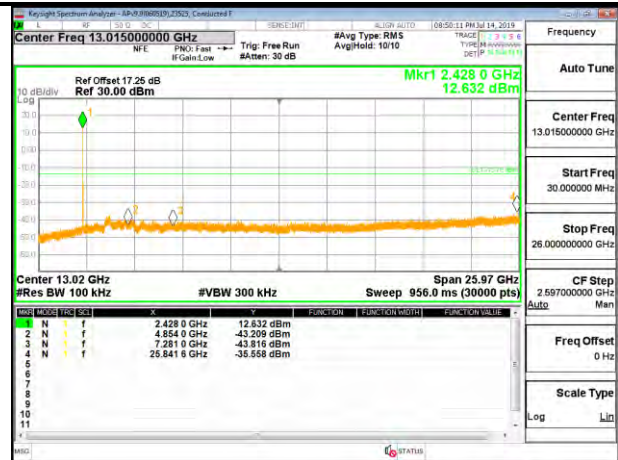
LOW CHANNEL 3 BANDEDGE ANT 4



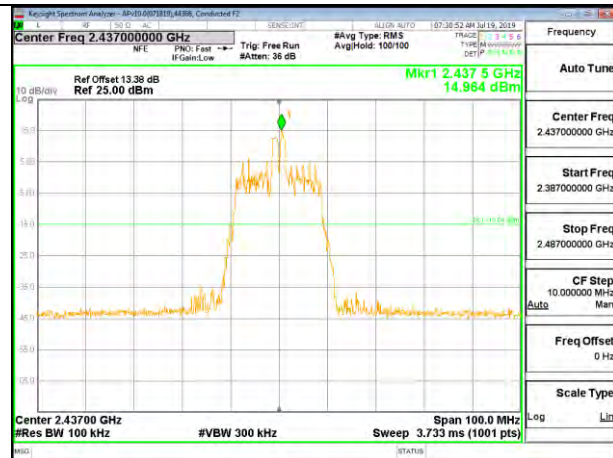
OUT-OF-BAND LOW CHANNEL 3 ANT 4



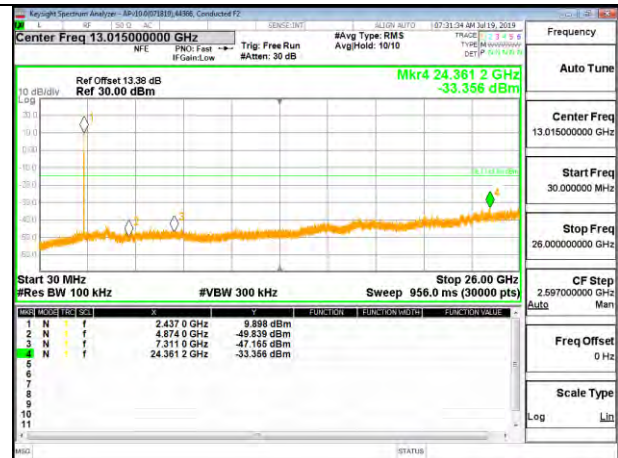
LOW CHANNEL 4 BANDEDGE ANT 4



OUT-OF-BAND LOW CHANNEL 4 ANT 4



IN-BAND REFERENCE LEVEL ANT 4



OUT-OF-BAND MID CHANNEL ANT 4



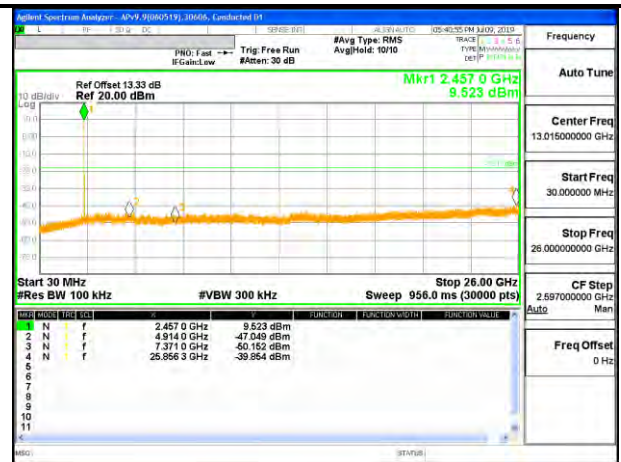
HIGH CHANNEL 9 BANDEDGE ANT 4



OUT-OF-BAND HIGH CHANNEL 9 ANT 4



HIGH CHANNEL 10 BANDEDGE ANT 4



OUT-OF-BAND HIGH CHANNEL 10 ANT 4



HIGH CHANNEL 11 BANDEDGE ANT 4



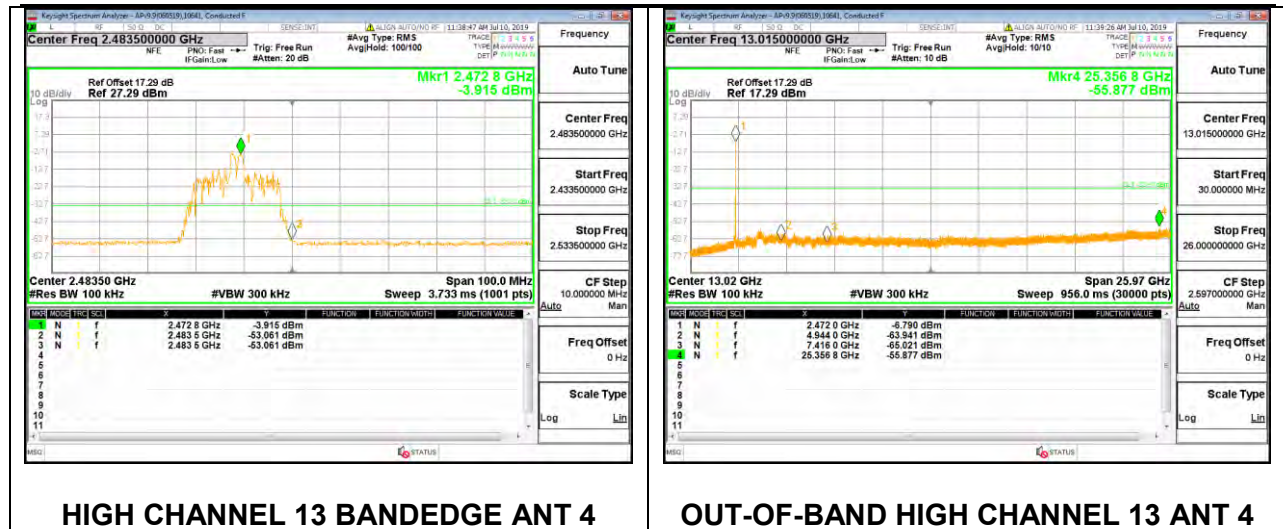
OUT-OF-BAND HIGH CHANNEL 11 ANT 4

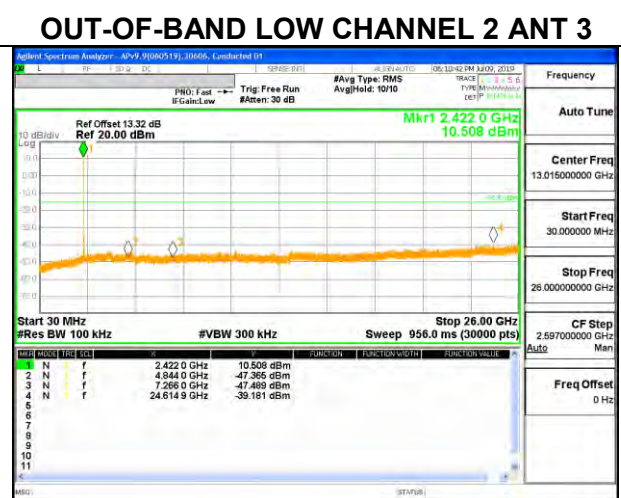
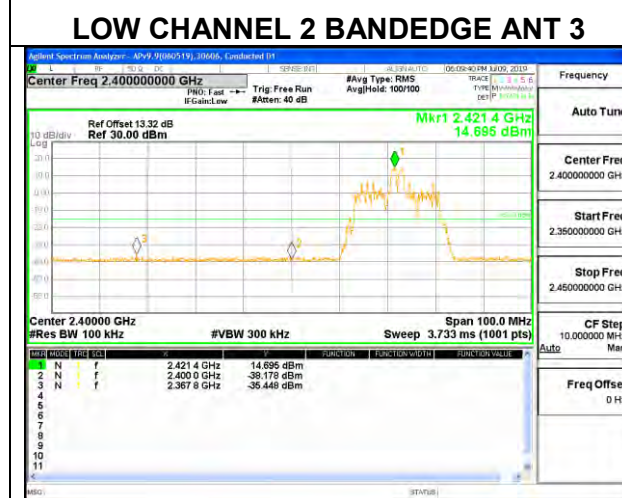
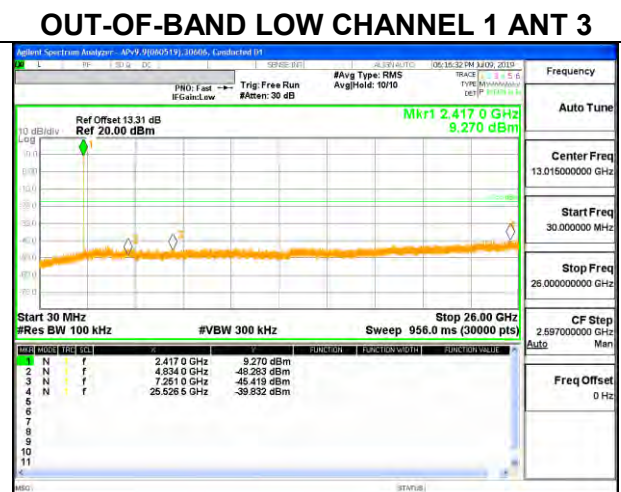
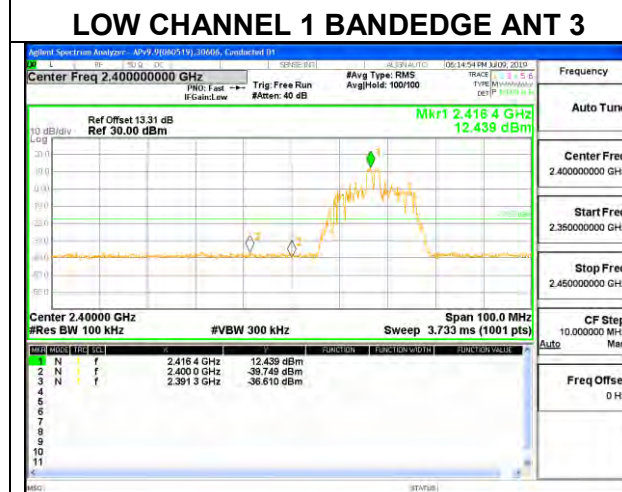


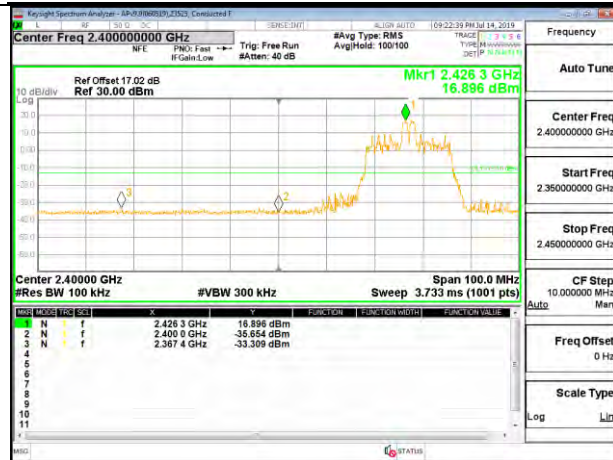
HIGH CHANNEL 12 BANDEDGE ANT 4



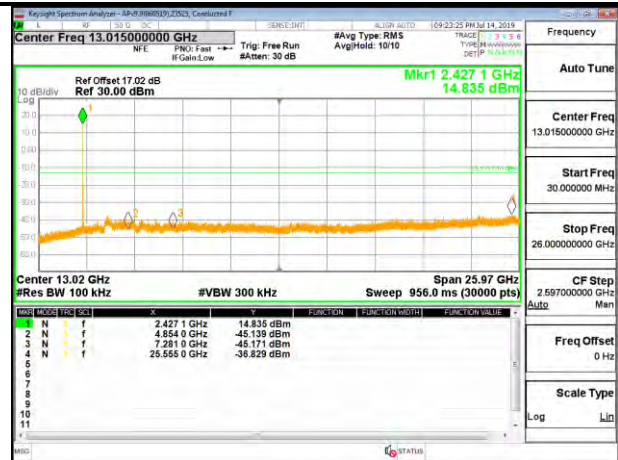
OUT-OF-BAND HIGH CHANNEL 12 ANT 4



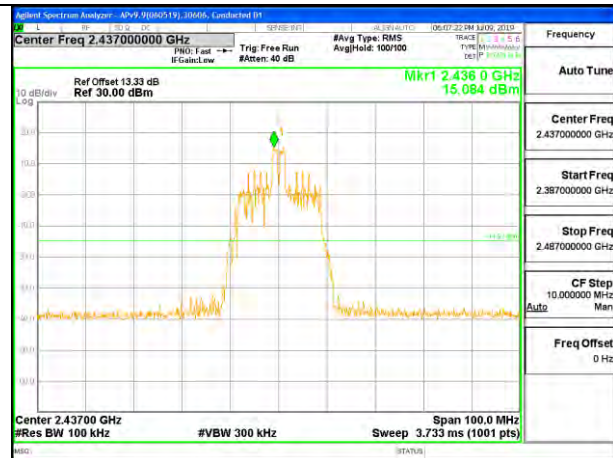




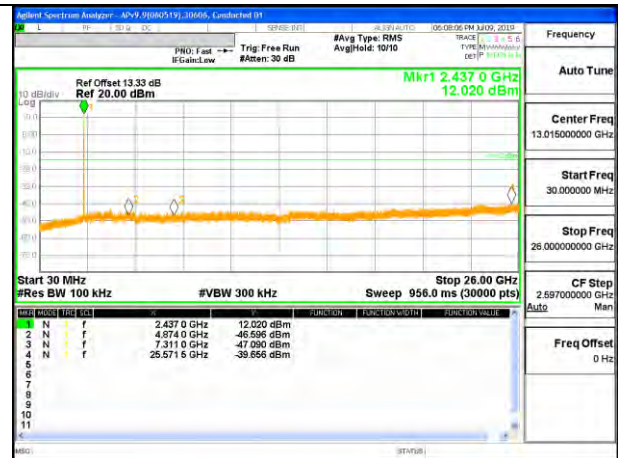
LOW CHANNEL 4 BANDEDGE ANT 3



OUT-OF-BAND LOW CHANNEL 4 ANT 3



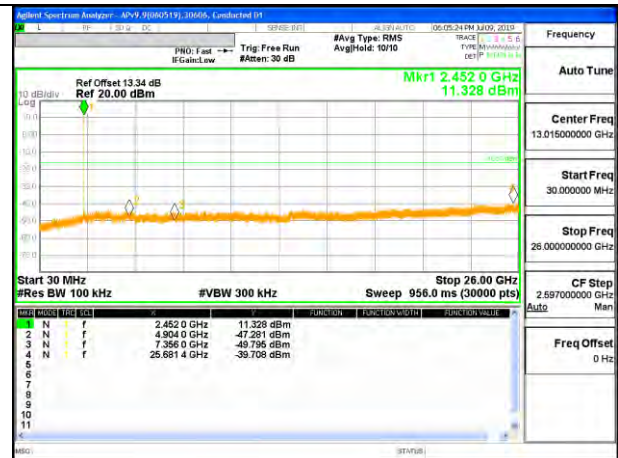
IN-BAND REFERENCE LEVEL ANT 3



OUT-OF-BAND MID CHANNEL ANT 3



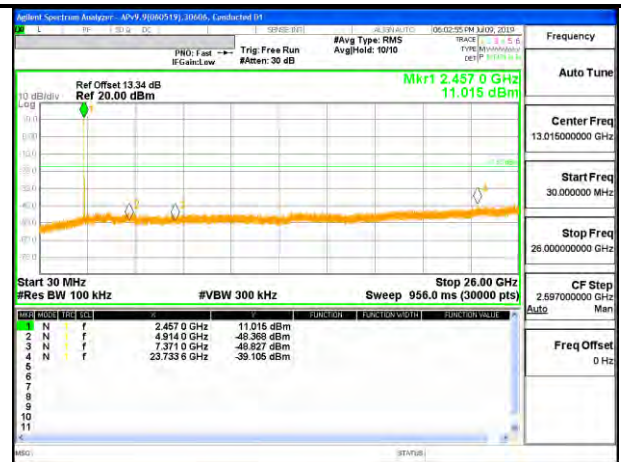
HIGH CHANNEL 9 BANDEDGE ANT 3



OUT-OF-BAND HIGH CHANNEL 9 ANT 3



HIGH CHANNEL 10 BANDEDGE ANT 3



OUT-OF-BAND HIGH CHANNEL 10 ANT 3



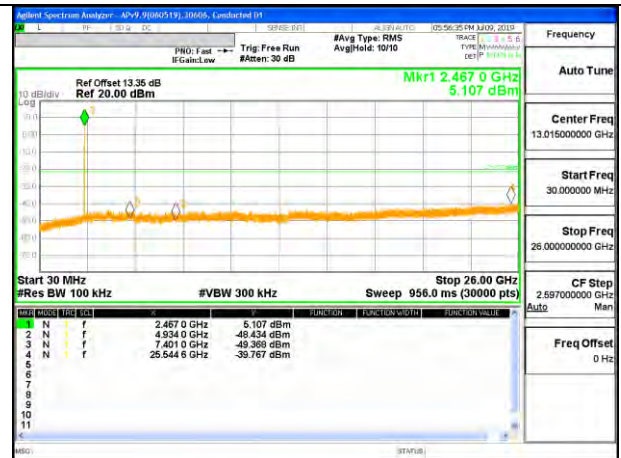
HIGH CHANNEL 11 BANDEDGE ANT 3



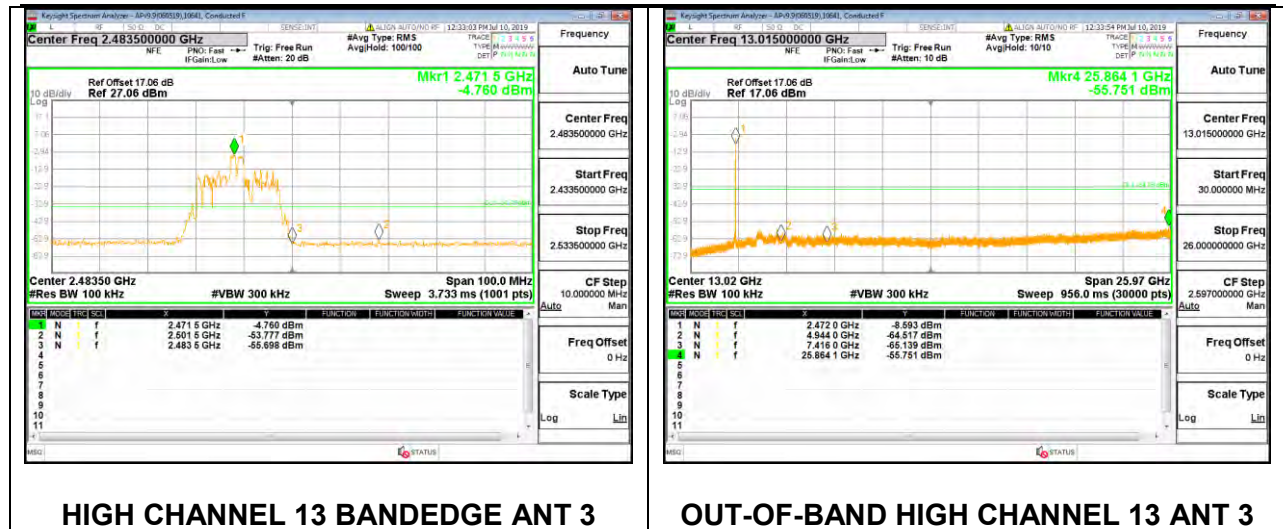
OUT-OF-BAND HIGH CHANNEL 11 ANT 3



HIGH CHANNEL 12 BANDEDGE ANT 3



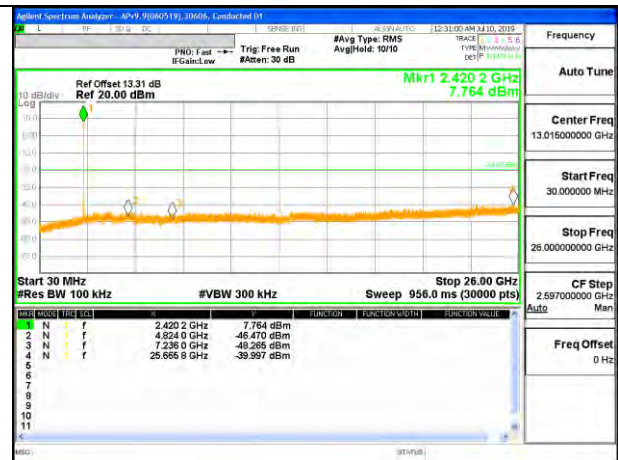
OUT-OF-BAND HIGH CHANNEL 12 ANT 3



Antenna 4 + Antenna 3 2TX MODE: 26-Tones, RU Index 8



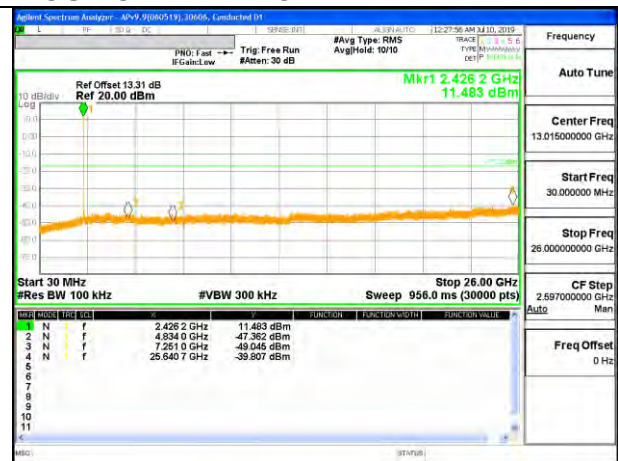
LOW CHANNEL 1 BANDEDGE ANT 4



OUT-OF-BAND LOW CHANNEL 1 ANT 4



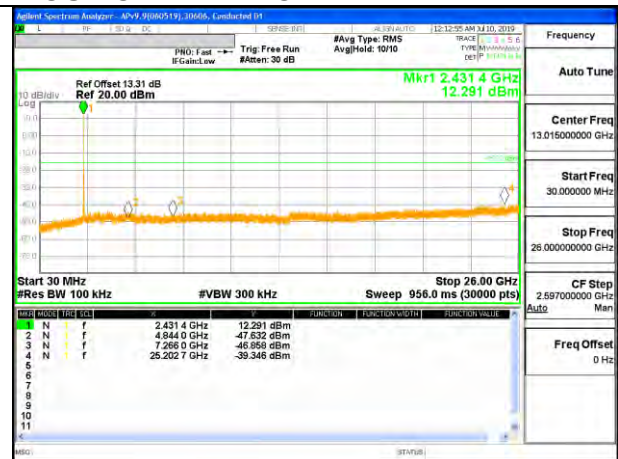
LOW CHANNEL 2 BANDEDGE ANT 4



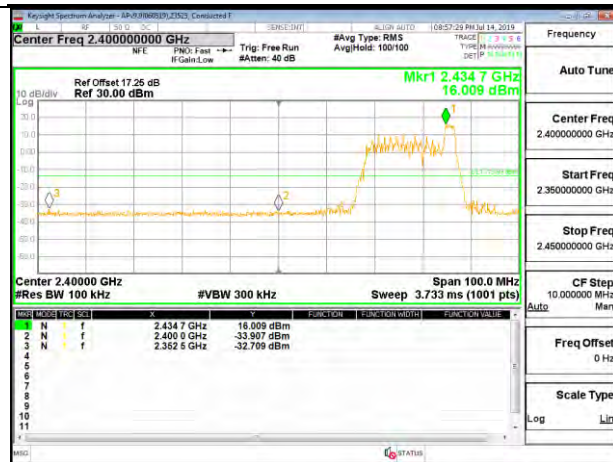
OUT-OF-BAND LOW CHANNEL 2 ANT 4



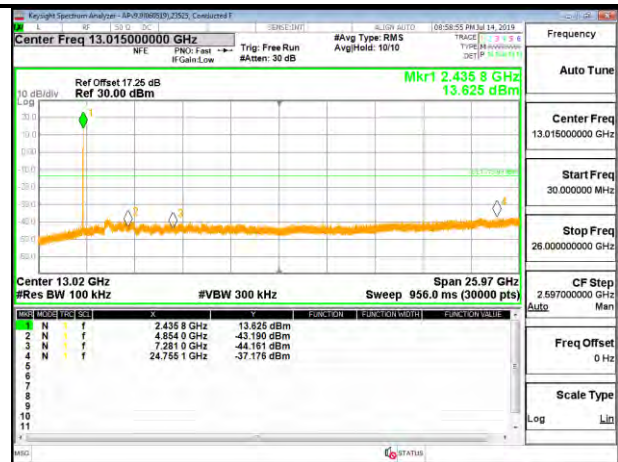
LOW CHANNEL 3 BANDEDGE ANT 4



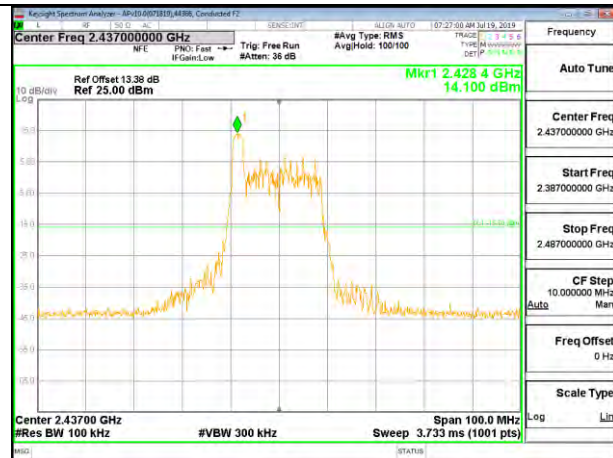
OUT-OF-BAND LOW CHANNEL 3 ANT 4



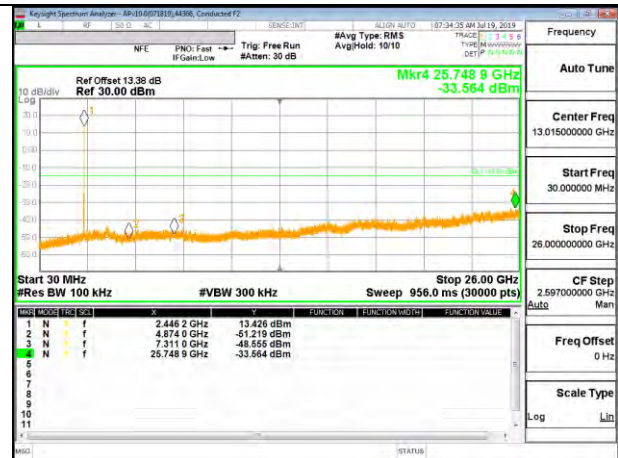
LOW CHANNEL 4 BANDEDGE ANT 4



OUT-OF-BAND LOW CHANNEL 4 ANT 4



IN-BAND REFERENCE LEVEL ANT 4



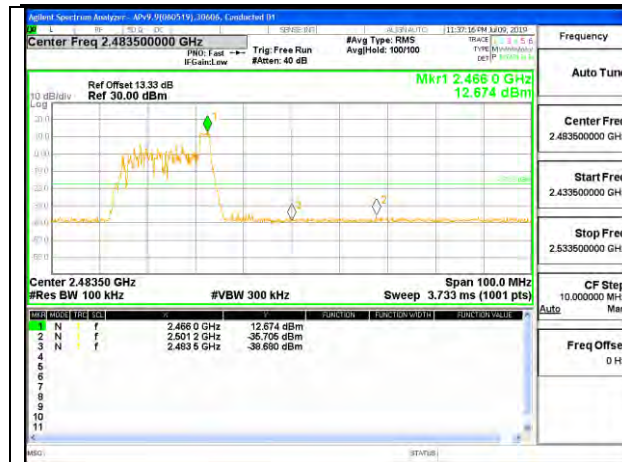
OUT-OF-BAND MID CHANNEL ANT 4



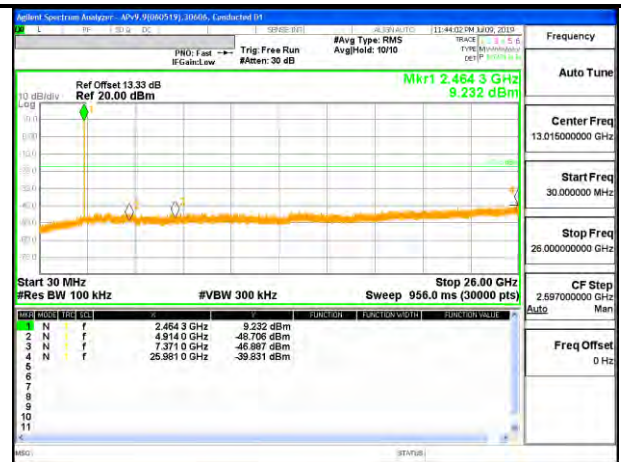
HIGH CHANNEL 9 BANDEDGE ANT 4



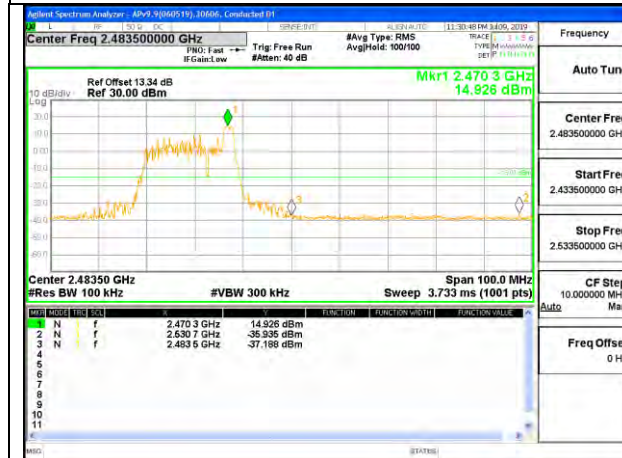
OUT-OF-BAND HIGH CHANNEL 9 ANT 4



HIGH CHANNEL 10 BANDEDGE ANT 4



OUT-OF-BAND HIGH CHANNEL 10 ANT 4



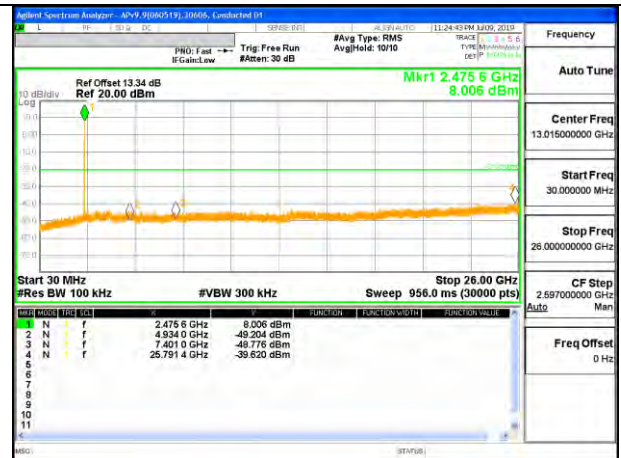
HIGH CHANNEL 11 BANDEDGE ANT 4



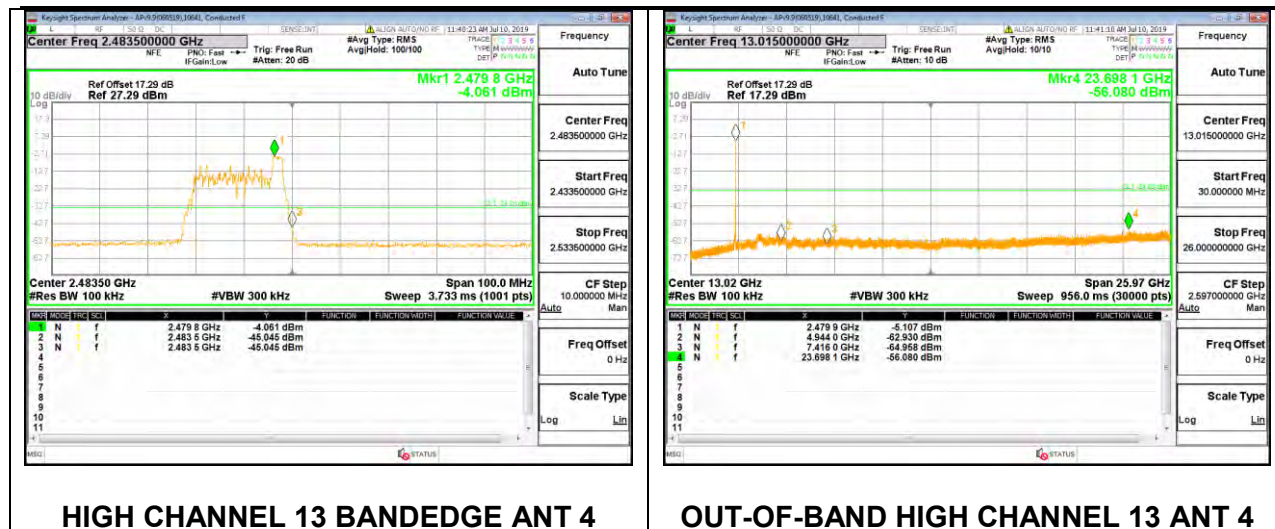
OUT-OF-BAND HIGH CHANNEL 11 ANT 4

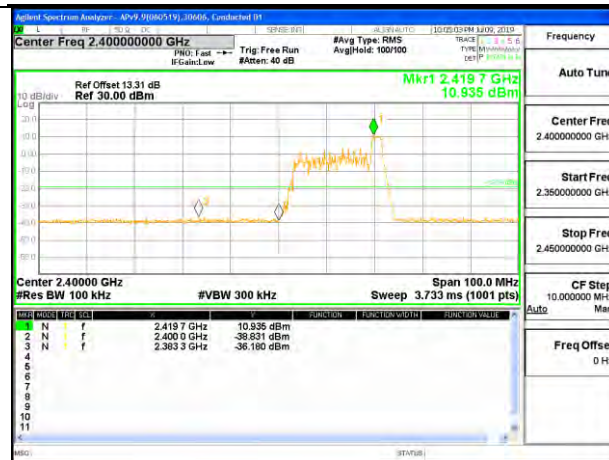


HIGH CHANNEL 12 BANDEDGE ANT 4

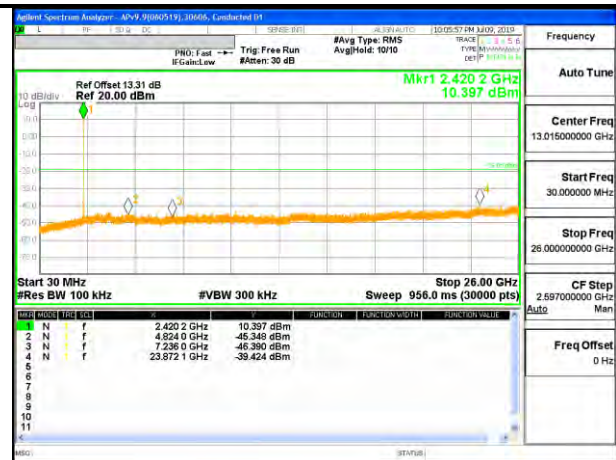


OUT-OF-BAND HIGH CHANNEL 12 ANT 4





LOW CHANNEL 1 BANDEDGE ANT 3



OUT-OF-BAND LOW CHANNEL 1 ANT 3



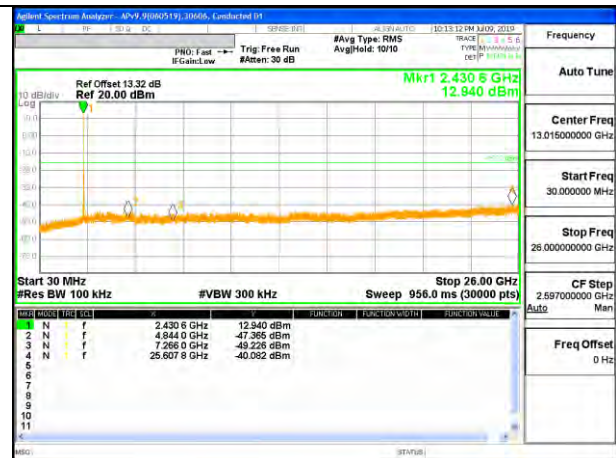
LOW CHANNEL 2 BANDEDGE ANT 3



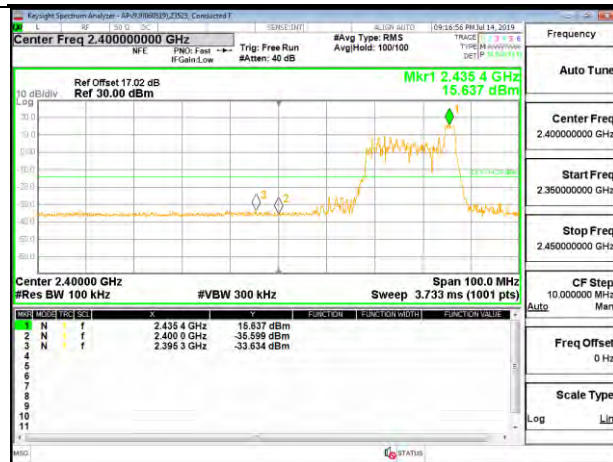
OUT-OF-BAND LOW CHANNEL 2 ANT 3



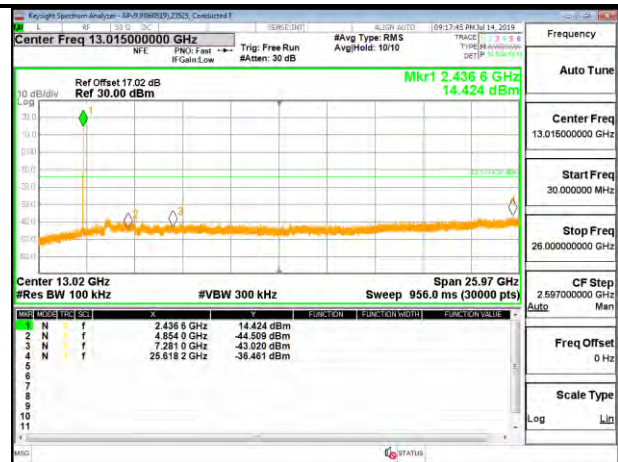
LOW CHANNEL 3 BANDEDGE ANT 3



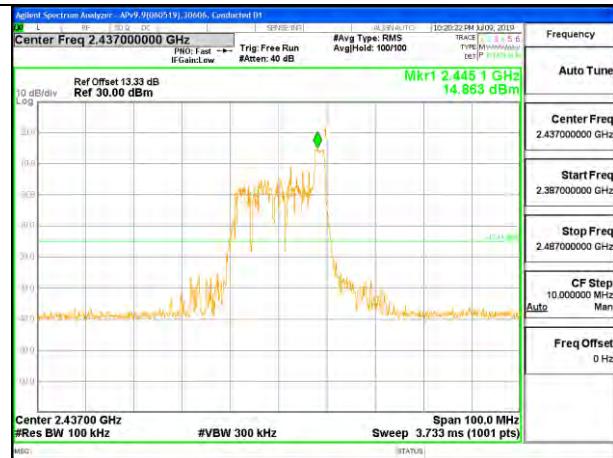
OUT-OF-BAND LOW CHANNEL 3 ANT 3



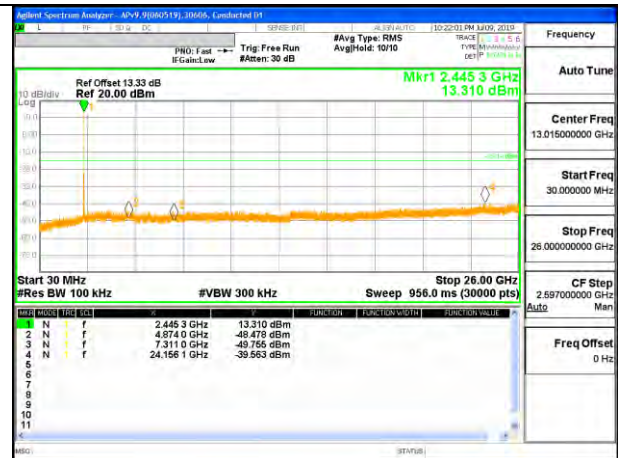
LOW CHANNEL 4 BANDEDGE ANT 3



OUT-OF-BAND LOW CHANNEL 4 ANT 3



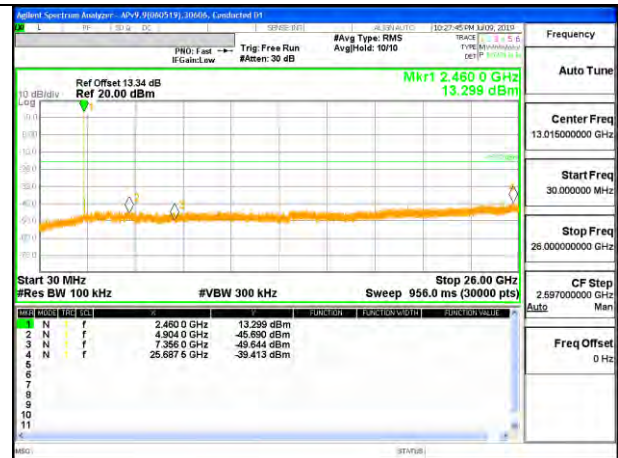
IN-BAND REFERENCE LEVEL ANT 3



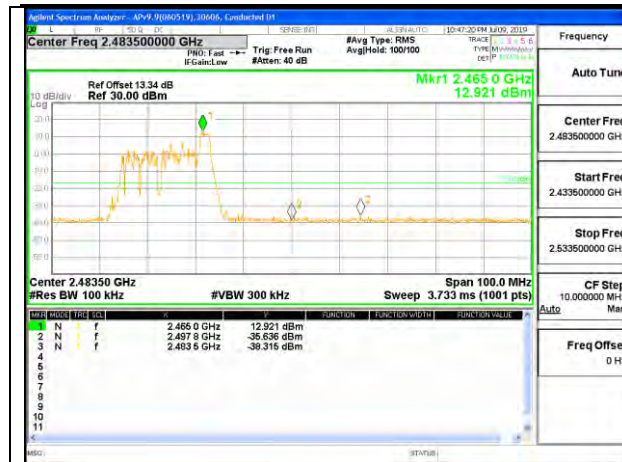
OUT-OF-BAND MID CHANNEL ANT 3



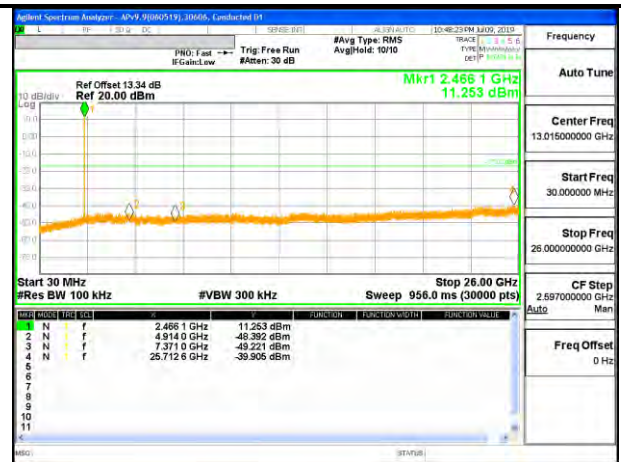
HIGH CHANNEL 9 BANDEDGE ANT 3



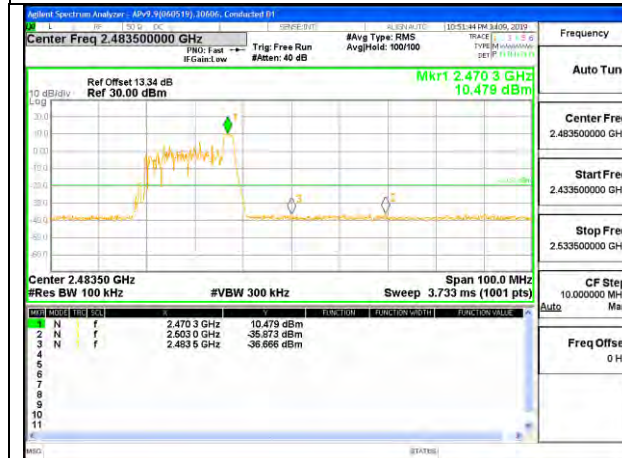
OUT-OF-BAND HIGH CHANNEL 9 ANT 3



HIGH CHANNEL 10 BANDEDGE ANT 3



OUT-OF-BAND HIGH CHANNEL 10 ANT 3



HIGH CHANNEL 11 BANDEDGE ANT 3



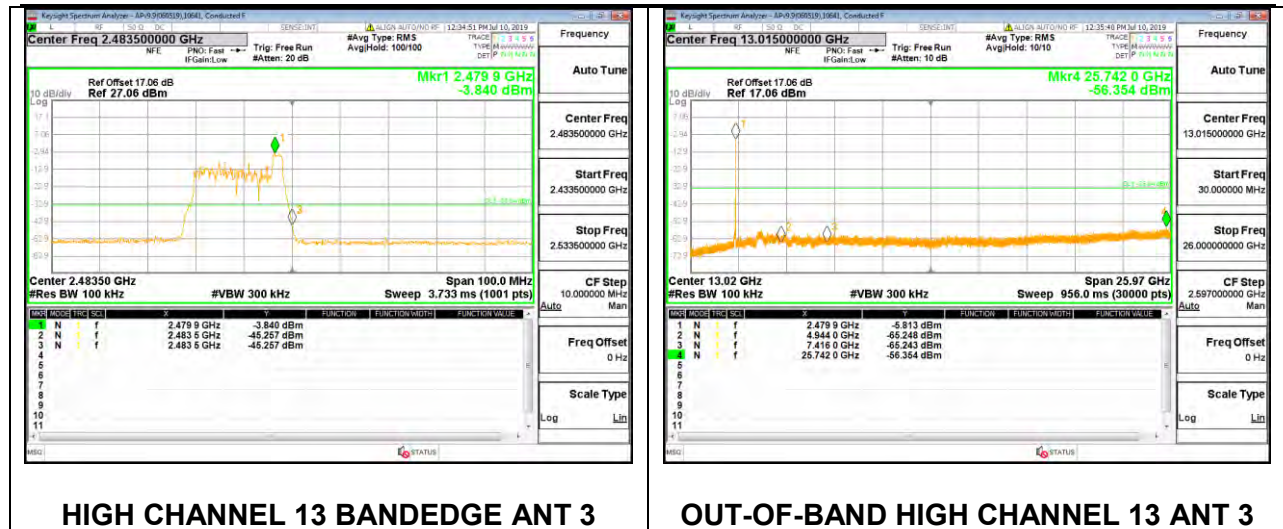
OUT-OF-BAND HIGH CHANNEL 11 ANT 3



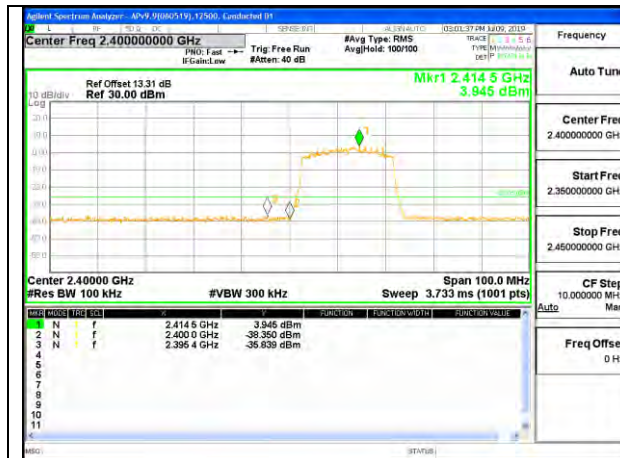
HIGH CHANNEL 12 BANDEDGE ANT 3



OUT-OF-BAND HIGH CHANNEL 12 ANT 3



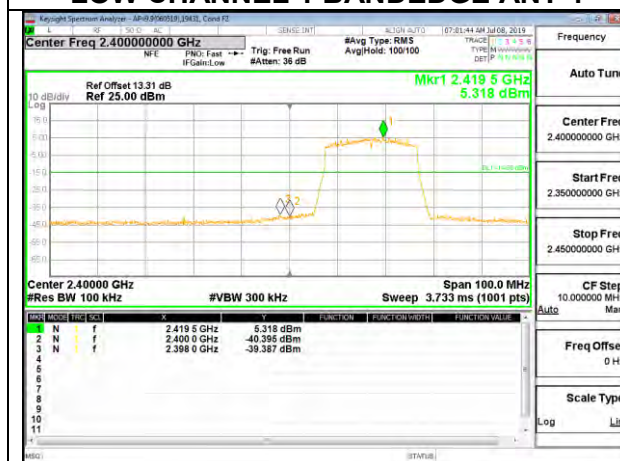
Antenna 4 + Antenna 3 2TX MODE: 242-Tones, RU Index 61



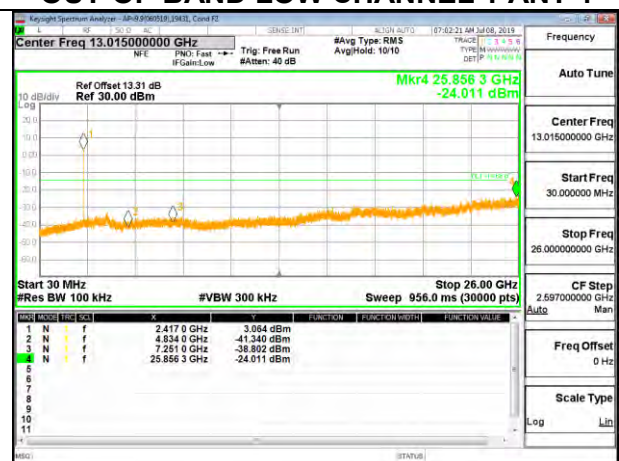
LOW CHANNEL 1 BANDEDGE ANT 4



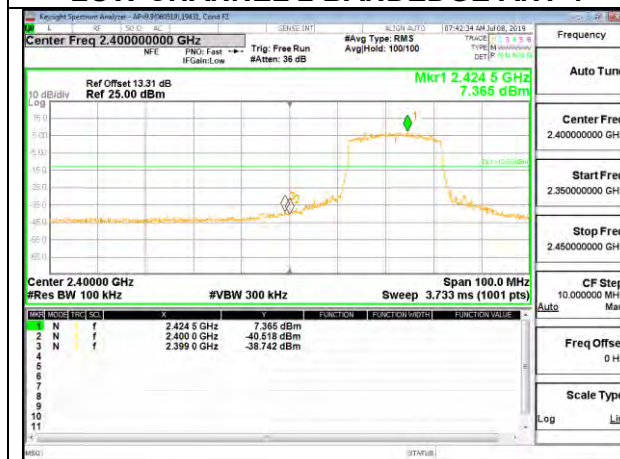
OUT-OF-BAND LOW CHANNEL 1 ANT 4



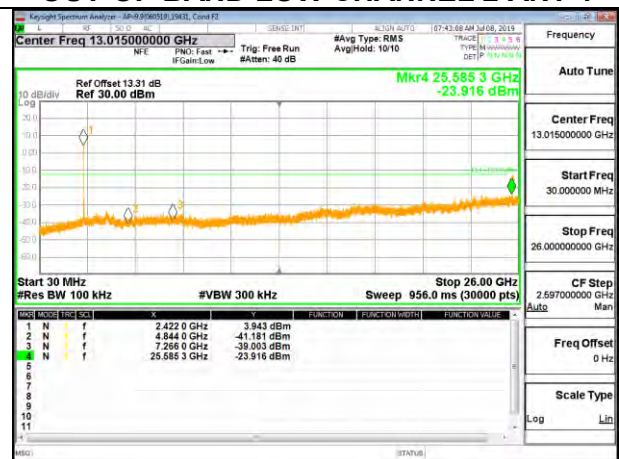
LOW CHANNEL 2 BANDEDGE ANT 4



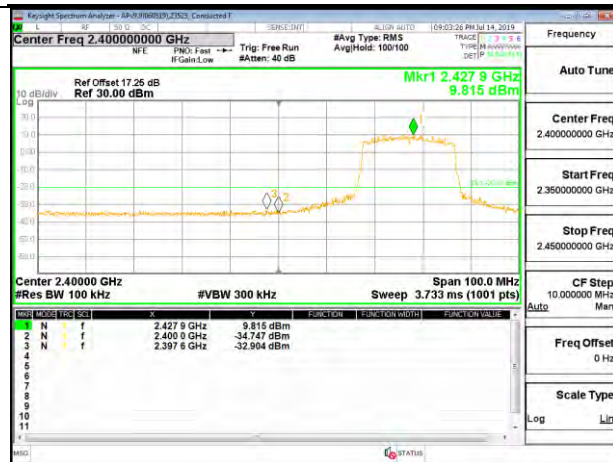
OUT-OF-BAND LOW CHANNEL 2 ANT 4



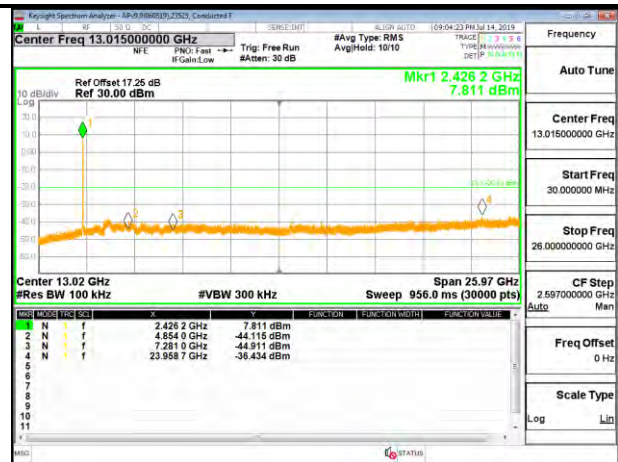
LOW CHANNEL 3 BANDEDGE ANT 4



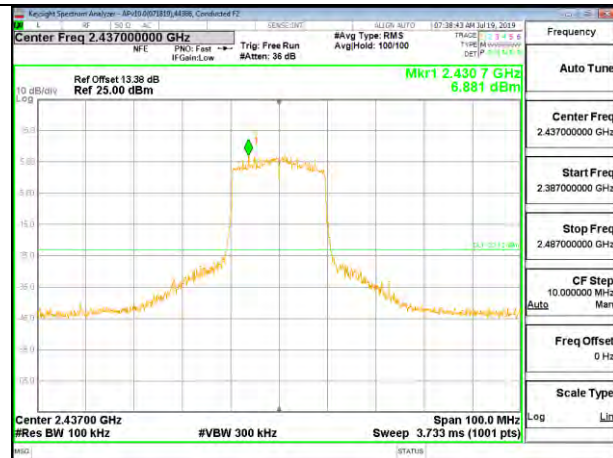
OUT-OF-BAND LOW CHANNEL 3 ANT 4



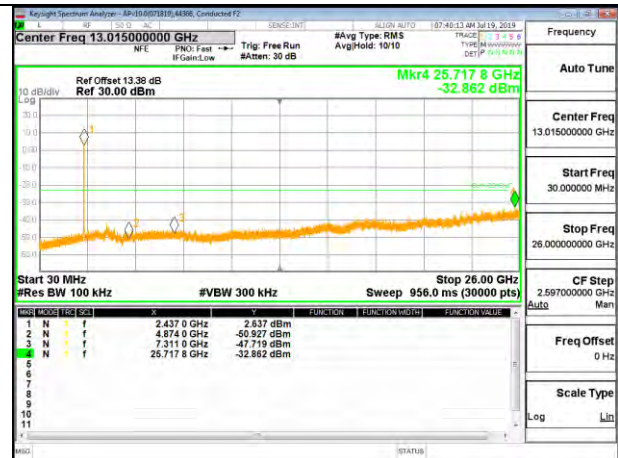
LOW CHANNEL 4 BANDEDGE ANT 4



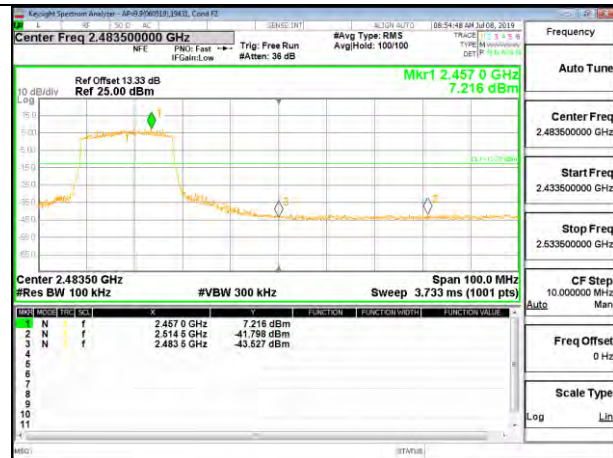
OUT-OF-BAND LOW CHANNEL 4 ANT 4



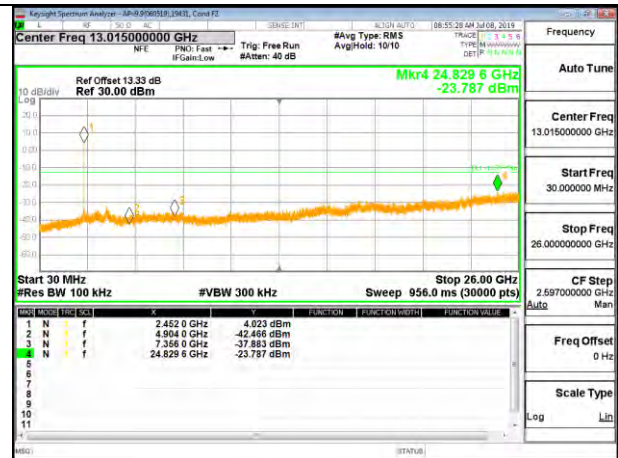
IN-BAND REFERENCE LEVEL ANT 4



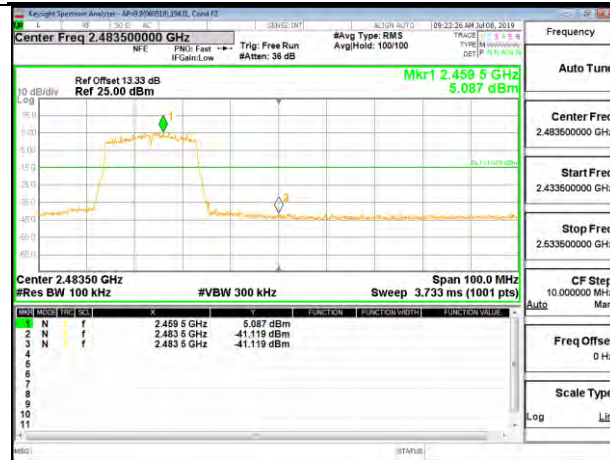
OUT-OF-BAND MID CHANNEL 4 ANT 4



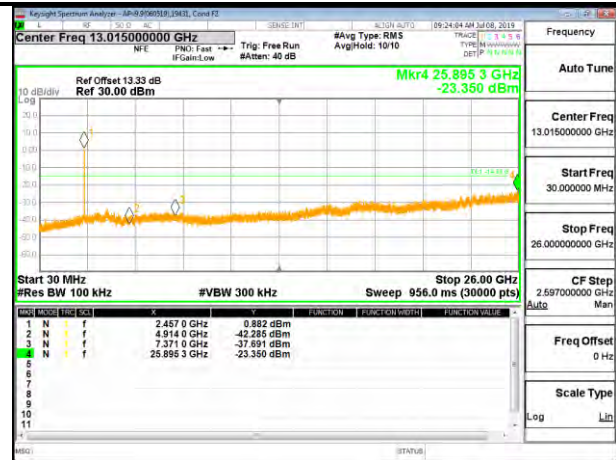
HIGH CHANNEL 9 BANDEDGE ANT 4



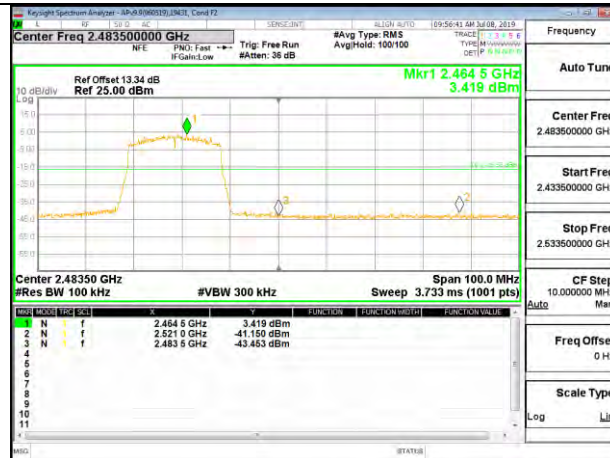
OUT-OF-BAND HIGH CHANNEL 9 ANT 4



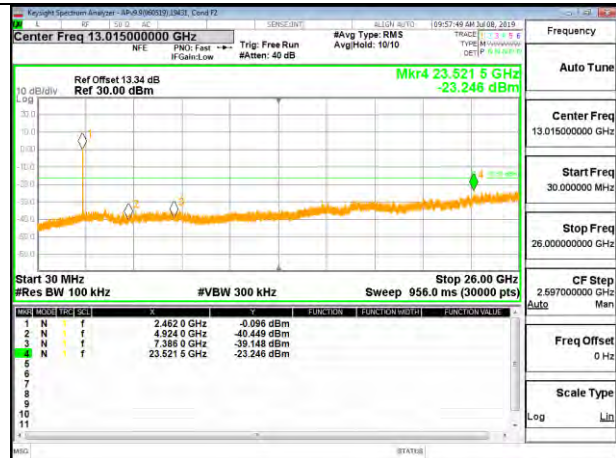
HIGH CHANNEL 10 BANDEDGE ANT 4



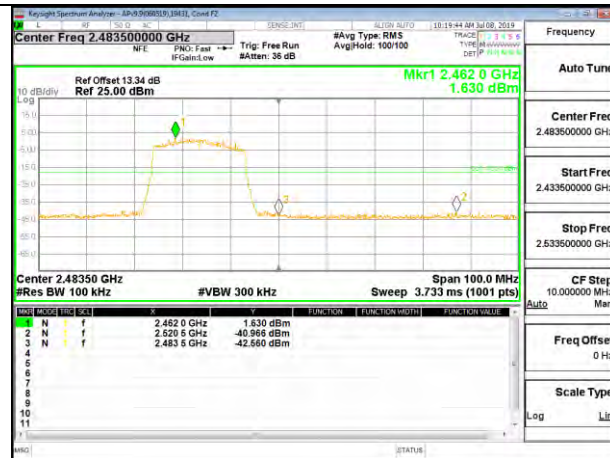
OUT-OF-BAND HIGH CHANNEL 10 ANT 4



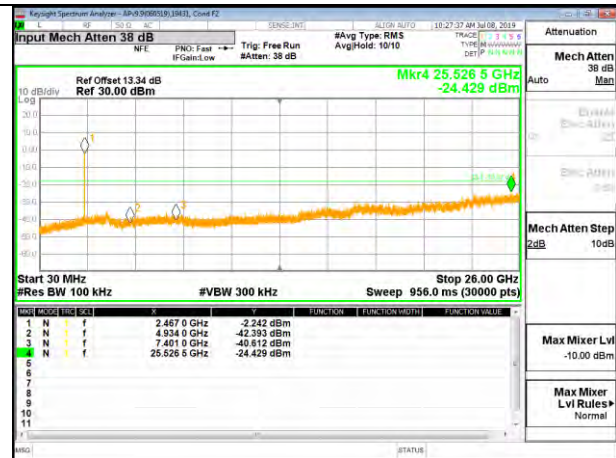
HIGH CHANNEL 11 BANDEDGE ANT 4



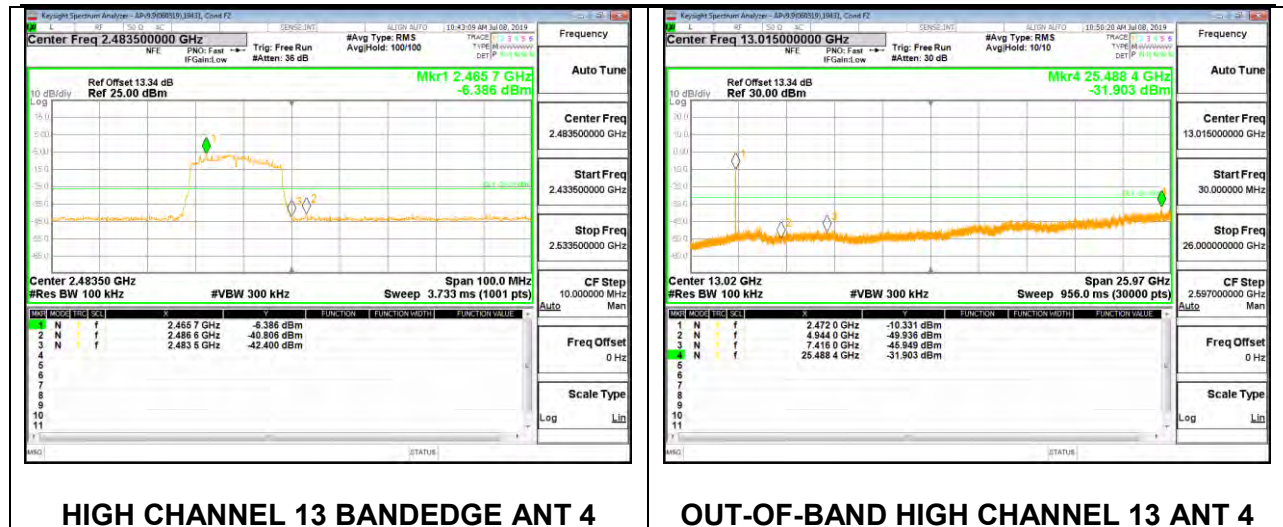
OUT-OF-BAND HIGH CHANNEL 11 ANT 4

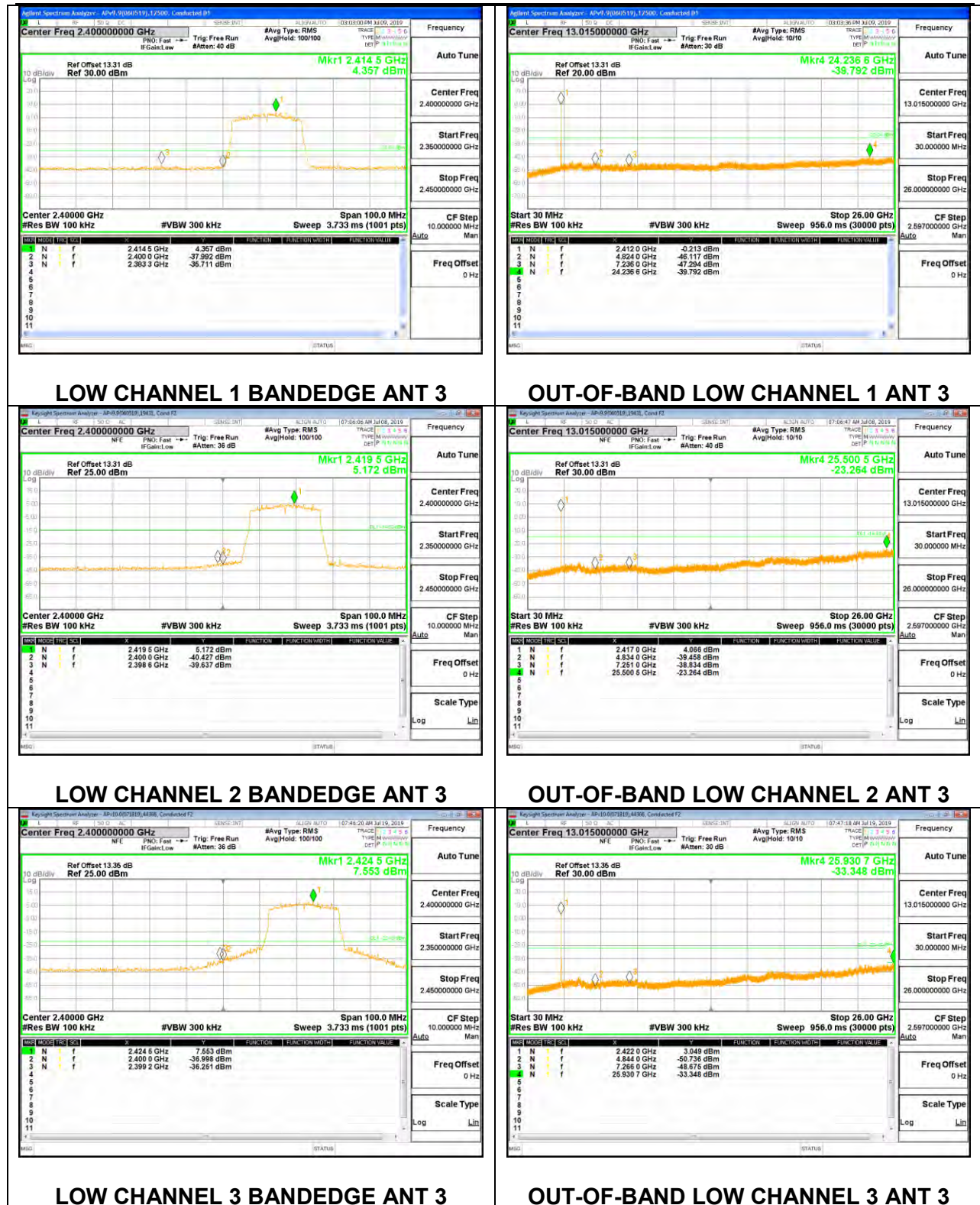


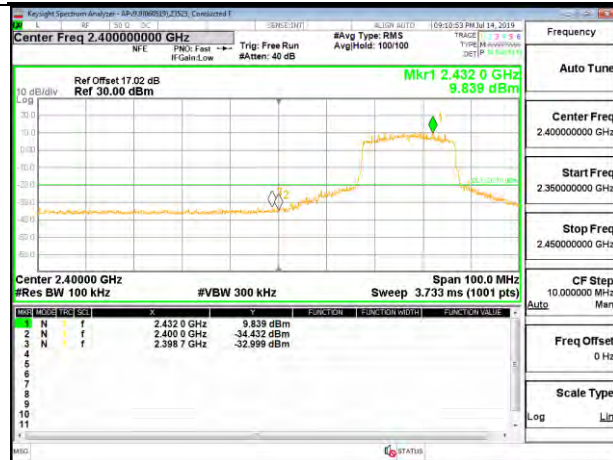
HIGH CHANNEL 12 BANDEDGE ANT 4



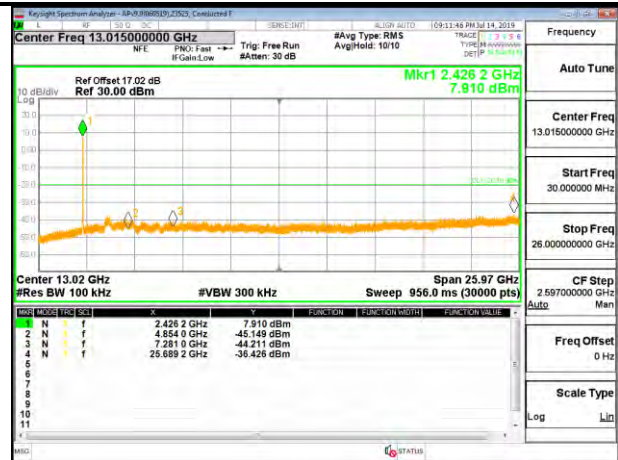
OUT-OF-BAND HIGH CHANNEL 12 ANT 4



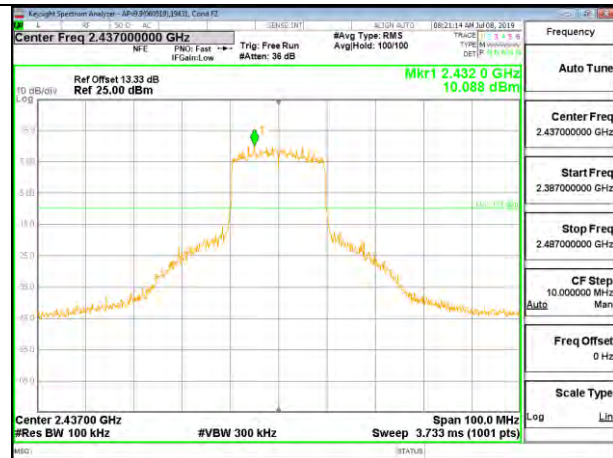




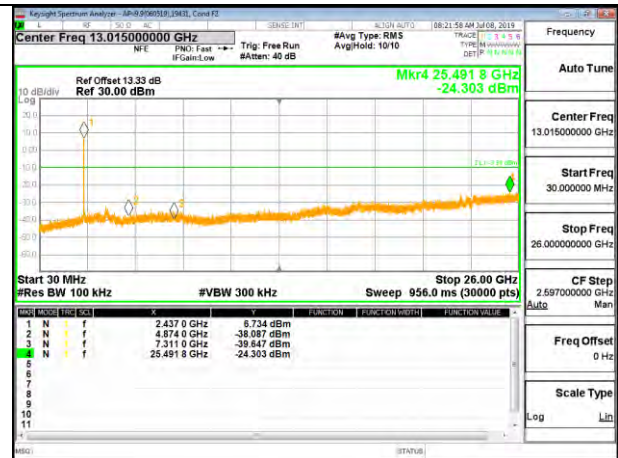
LOW CHANNEL 4 BANDEDGE ANT 3



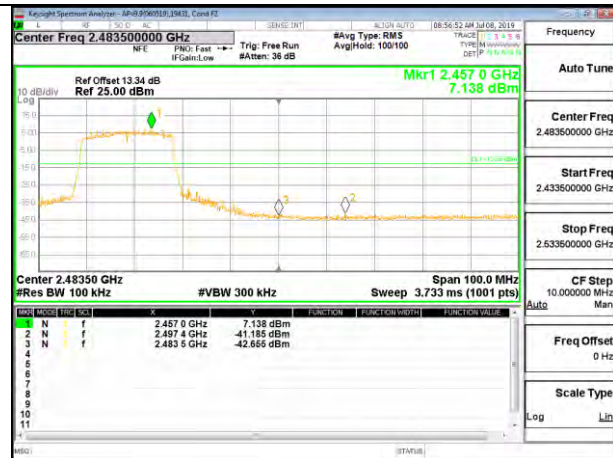
OUT-OF-BAND LOW CHANNEL 4 ANT 3



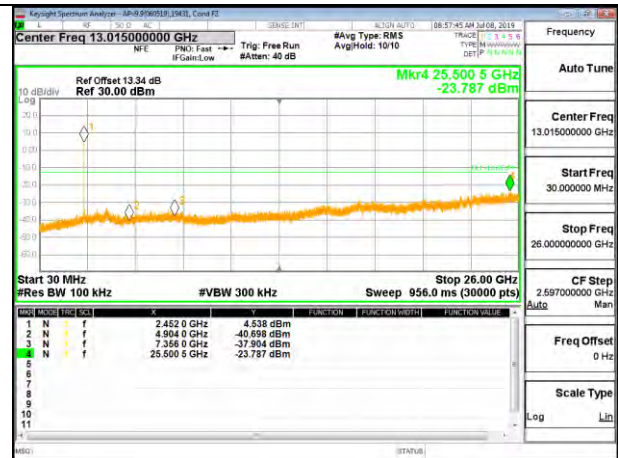
IN-BAND REFERENCE LEVEL ANT 3



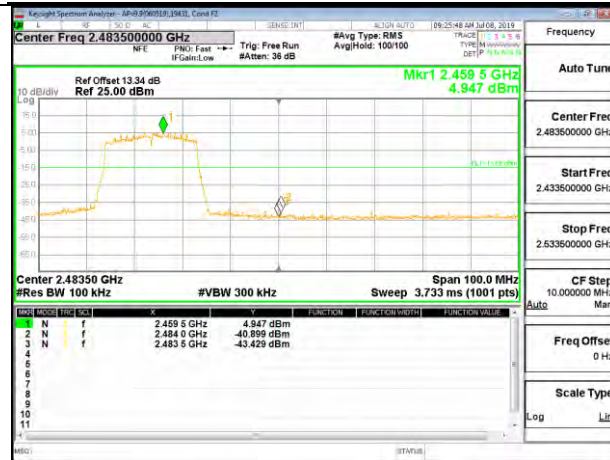
OUT-OF-BAND MID CHANNEL ANT 3



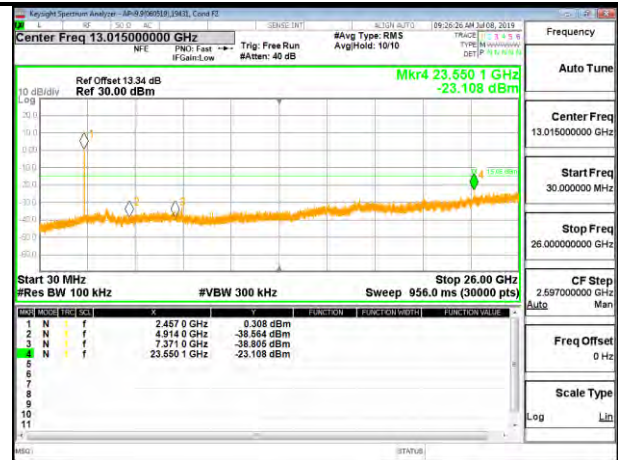
HIGH CHANNEL 9 BANDEDGE ANT 3



OUT-OF-BAND HIGH CHANNEL 9 ANT 3



HIGH CHANNEL 10 BANDEDGE ANT 3



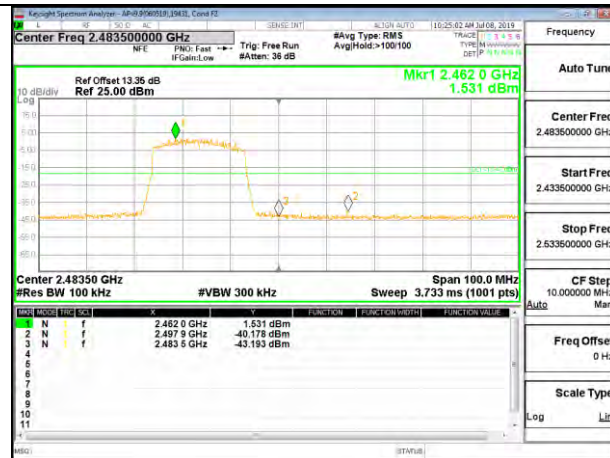
OUT-OF-BAND HIGH CHANNEL 10 ANT 3



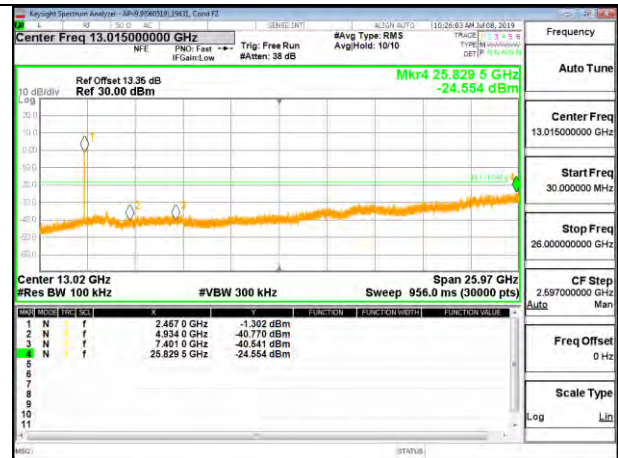
HIGH CHANNEL 11 BANDEDGE ANT 3



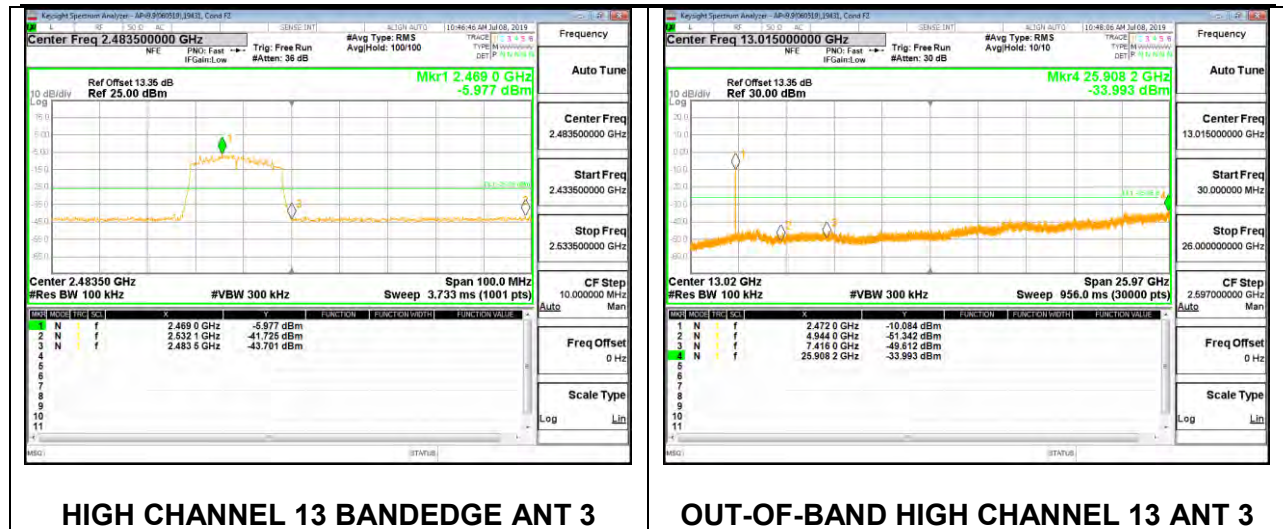
OUT-OF-BAND HIGH CHANNEL 11 ANT 3



HIGH CHANNEL 12 BANDEDGE ANT 3



OUT-OF-BAND HIGH CHANNEL 12 ANT 3



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.

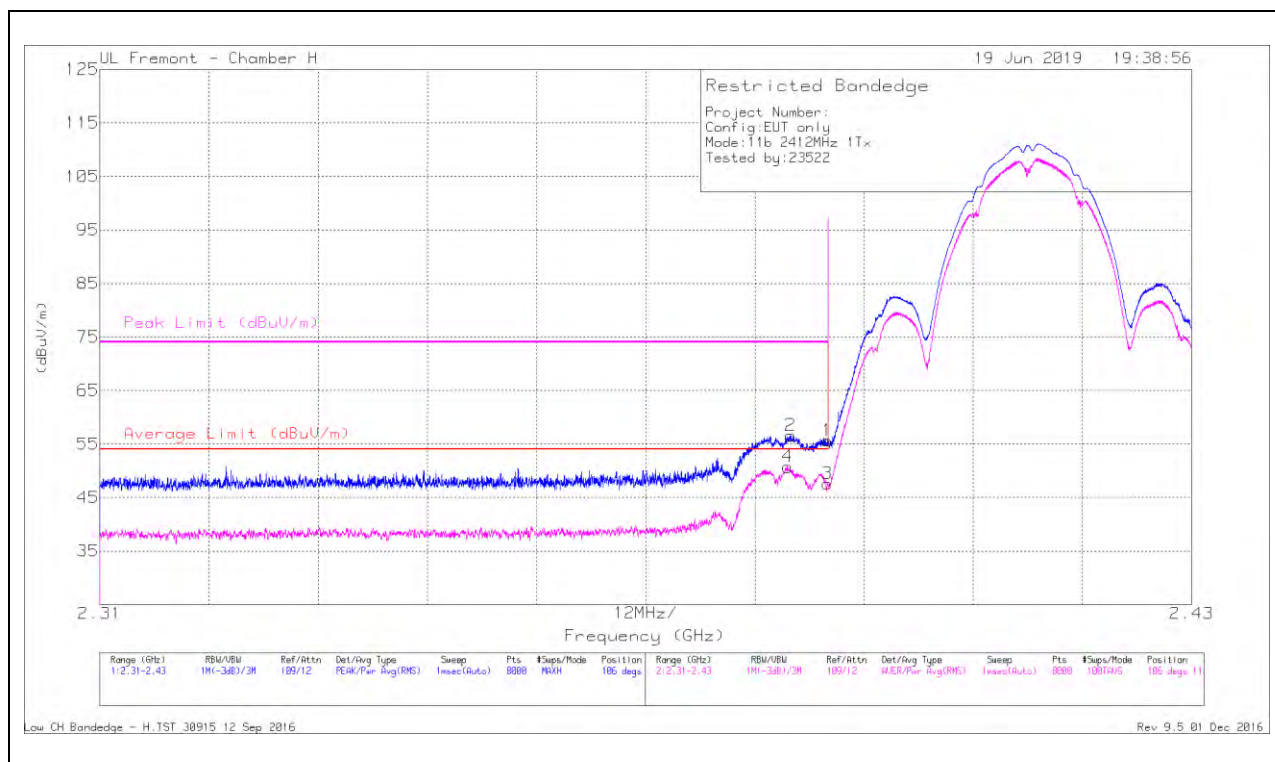
9.1. TRANSMITTER ABOVE 1 GHz

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

1TX Antenna 4 MODE

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



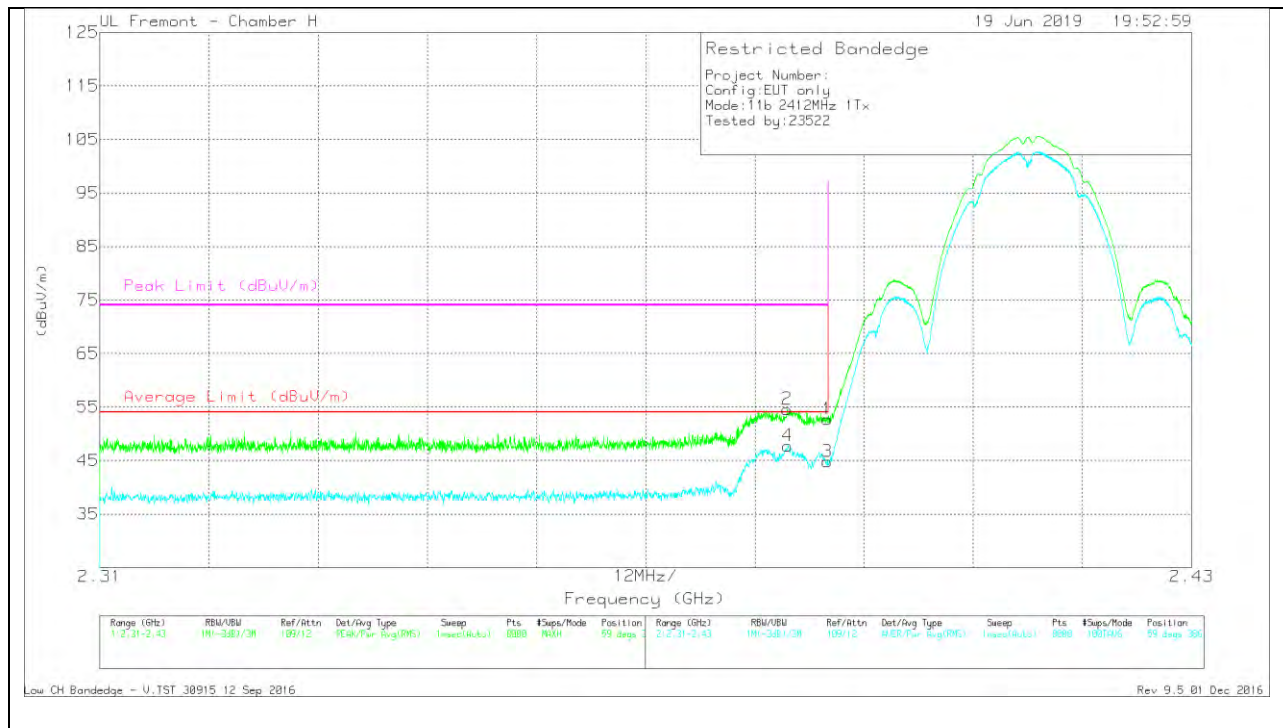
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dBm)	Amp/Cbl/Fitr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	44.93	Pk	32.1	-21.4	55.63	-	-	74	-18.37	106	113	H
2	* 2.386	45.87	Pk	32.1	-21.4	56.57	-	-	74	-17.43	106	113	H
3	* 2.39	36.88	RMS	32.1	-21.4	47.58	54	-6.42	-	-	106	113	H
4	* 2.386	40.03	RMS	32.1	-21.4	50.73	54	-3.27	-	-	106	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 T863 (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	42.02	Pk	32.1	-21.4	52.72	-	-	74	-21.28	59	386	V
2	* 2.386	43.87	Pk	32.1	-21.4	54.57	-	-	74	-19.43	59	386	V
3	* 2.39	34.09	RMS	32.1	-21.4	44.79	54	-9.21	-	-	59	386	V
4	* 2.386	37.03	RMS	32.1	-21.4	47.73	54	-6.27	-	-	59	386	V

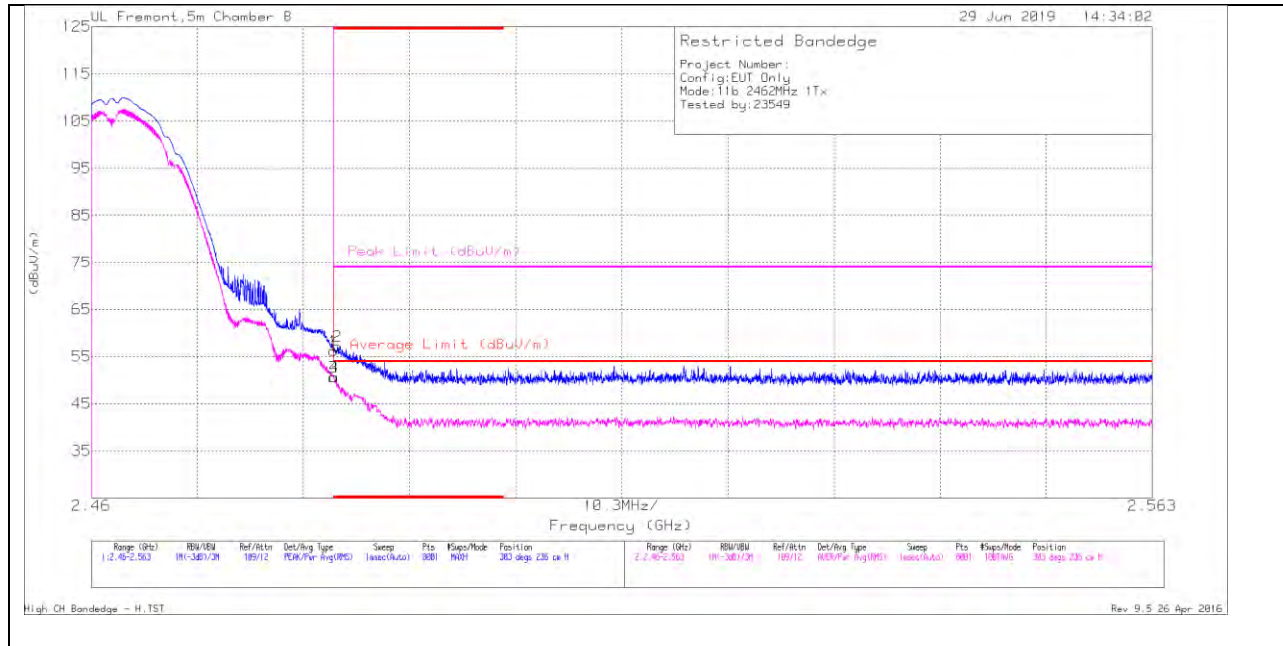
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 11)

HORIZONTAL RESULT



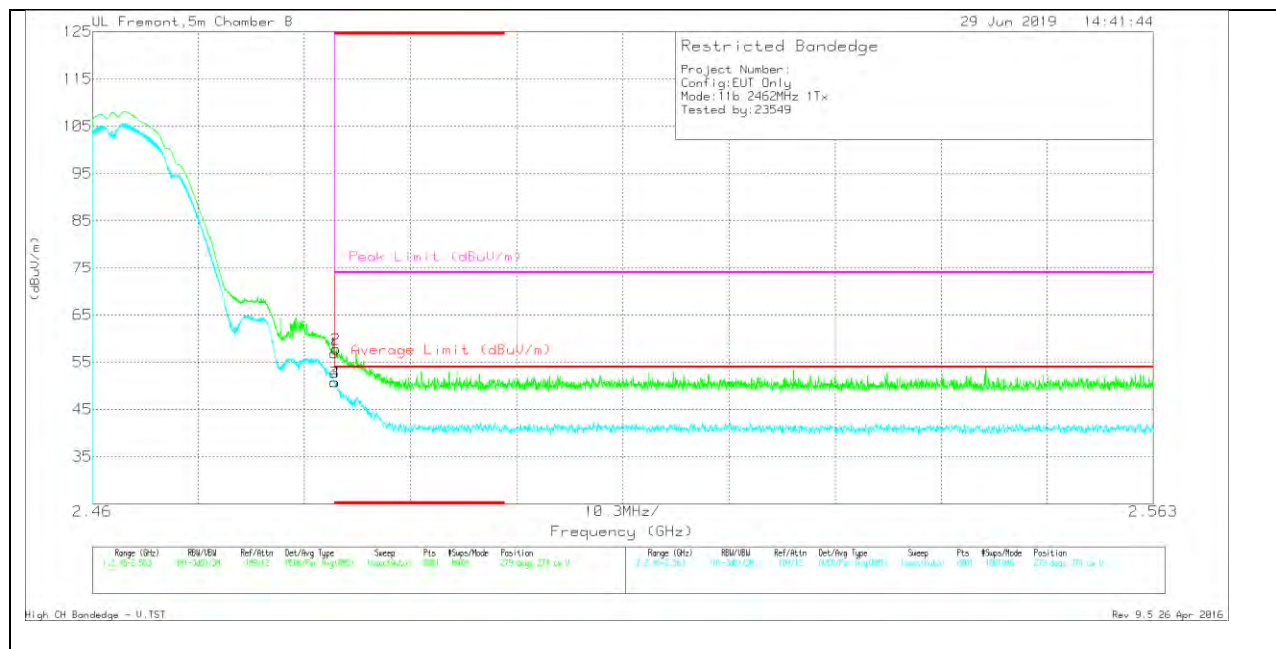
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Filt/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.9	Pk	32.3	-18.9	56.3	-	-	74	-17.7	303	236	H
2	* 2.484	43.8	Pk	32.3	-18.9	57.2	-	-	74	-16.8	303	236	H
3	* 2.484	37.28	RMS	32.3	-18.9	50.68	54	-3.32	-	-	303	236	H
4	* 2.484	37.3	RMS	32.3	-18.9	50.7	54	-3.3	-	-	303	236	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/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	43.57	Pk	32.3	-18.9	56.97	-	-	74	-17.03	279	374	V
2	* 2.484	44.41	Pk	32.3	-18.9	57.81	-	-	74	-16.19	279	374	V
3	* 2.484	37.37	RMS	32.3	-18.9	50.77	54	-3.23	-	-	279	374	V
4	* 2.484	37.37	RMS	32.3	-18.9	50.77	54	-3.23	-	-	279	374	V

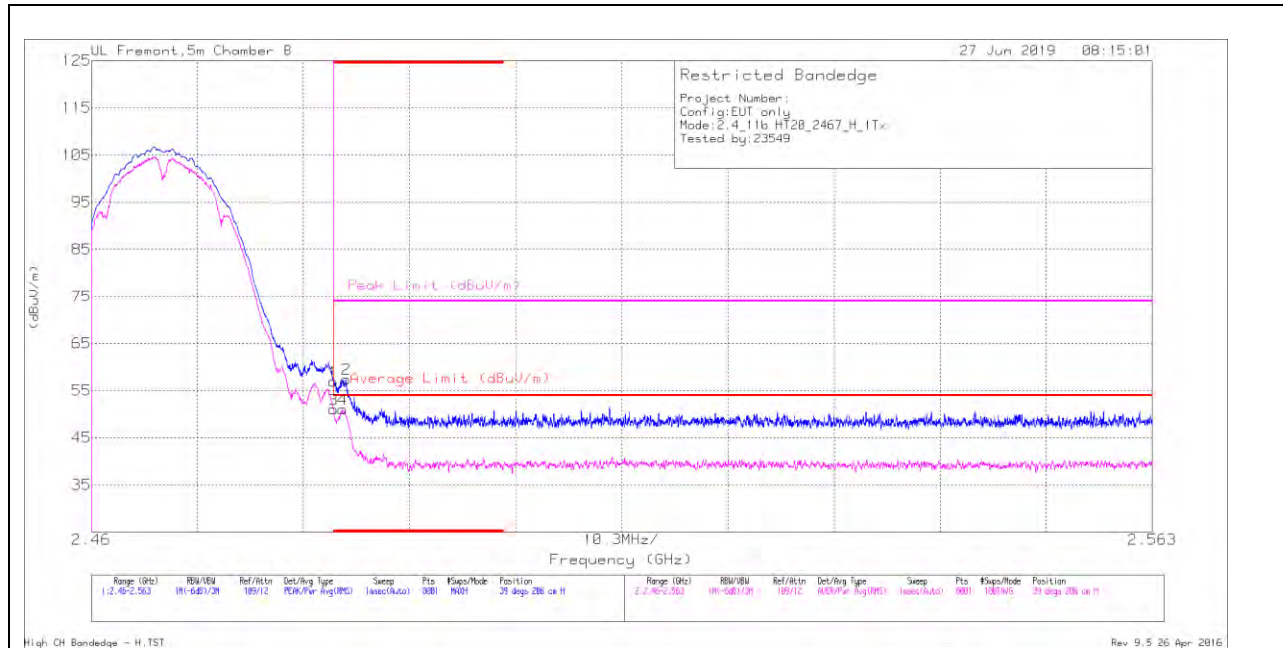
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 12)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (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	43.5	Pk	32.3	-18.9	56.9	-	-	74	-17.1	39	206	H
2	* 2.485	44.04	Pk	32.3	-18.9	57.44	-	-	74	-16.56	39	206	H
3	* 2.484	37.63	RMS	32.3	-18.9	51.03	54	-2.97	-	-	39	206	H
4	* 2.484	37.63	RMS	32.3	-18.9	51.03	54	-2.97	-	-	39	206	H

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

Pk - Peak detector

RMS - RMS detection

UL Fremont, 5m Chamber B

27 Jun 2019 08:28:40

Restricted Bandedge

Project Number:
Config: EUT only
Mode: 2.4.11b_HT20_V_1Tx
Tested by: 23549

(dBuV/m)

Peak Limit (dBuV/m)

Average Limit (dBuV/m)

10.3MHz/
Frequency (GHz)

Range (Hz)	RBW/VBW	Ref/Att	Det/Res Type	Sweep	Pis	Flags/Mode	Position
1.0E+5-500	100/500	0dB/12	ENR/100	1000/500	0dB	0dB/0.000	0.000/0.000

High CH Bandedge - U_TST

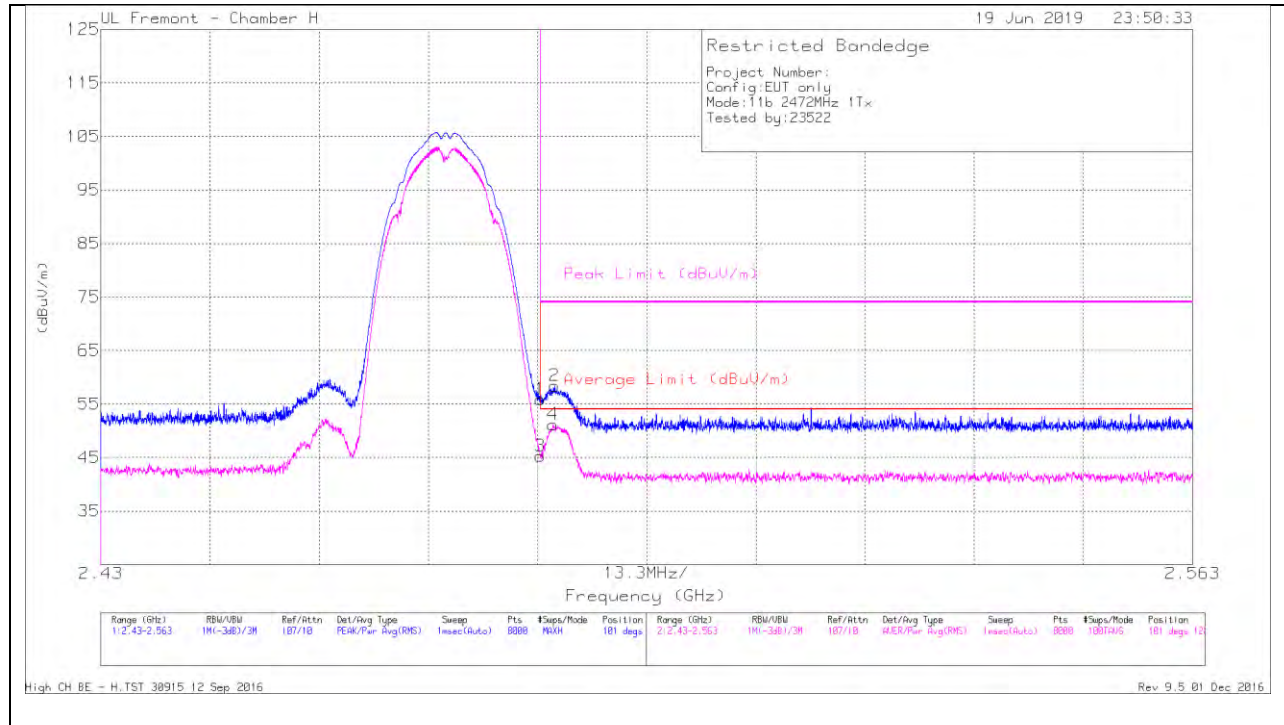
Rev 9.5 26 Apr 2016

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (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	42.28	Pk	32.3	-18.9	55.68	-	-	74	-18.32	8	371	V
2	* 2.485	42.61	Pk	32.3	-18.9	56.01	-	-	74	-17.99	8	371	V
3	* 2.484	35.97	RMS	32.3	-18.9	49.37	54	-4.63	-	-	8	371	V
4	* 2.484	35.79	RMS	32.3	-18.9	49.19	54	-4.81	-	-	8	371	V

Pk - Peak detector
RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 13)

HORIZONTAL RESULT



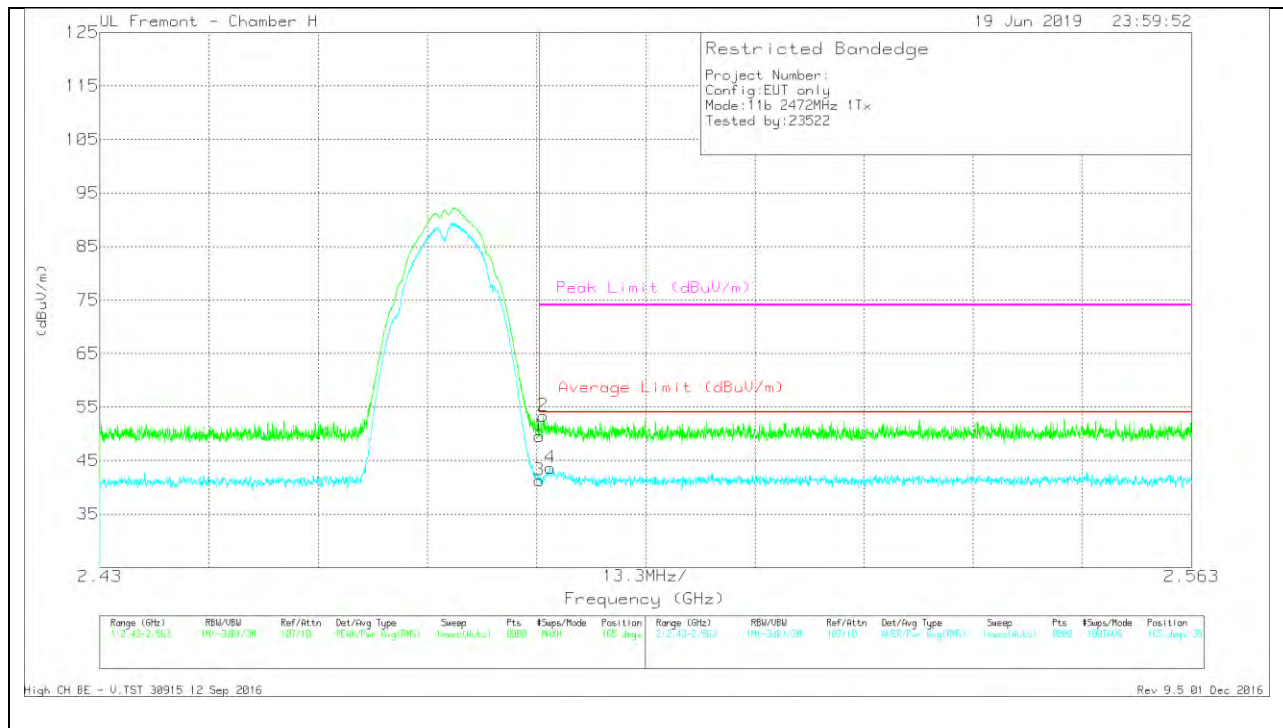
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T663 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	46.66	Pk	32.5	-23.3	55.86	-	-	74	-18.14	101	128	H
2	* 2.485	49.19	Pk	32.5	-23.3	58.39	-	-	74	-15.61	101	128	H
3	* 2.484	36.06	RMS	32.5	-23.3	45.26	54	-8.74	-	-	101	128	H
4	* 2.485	41.93	RMS	32.5	-23.3	51.13	54	-2.87	-	-	101	128	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 T863 (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	40.36	PK	32.5	-23.3	49.56	-	-	74	-24.44	165	357	V
2	* 2.484	44.14	PK	32.5	-23.3	53.34	-	-	74	-20.66	165	357	V
3	* 2.484	32.12	RMS	32.5	-23.3	41.32	54	-12.68	-	-	165	357	V
4	* 2.485	34.44	RMS	32.5	-23.3	43.64	54	-10.36	-	-	165	357	V

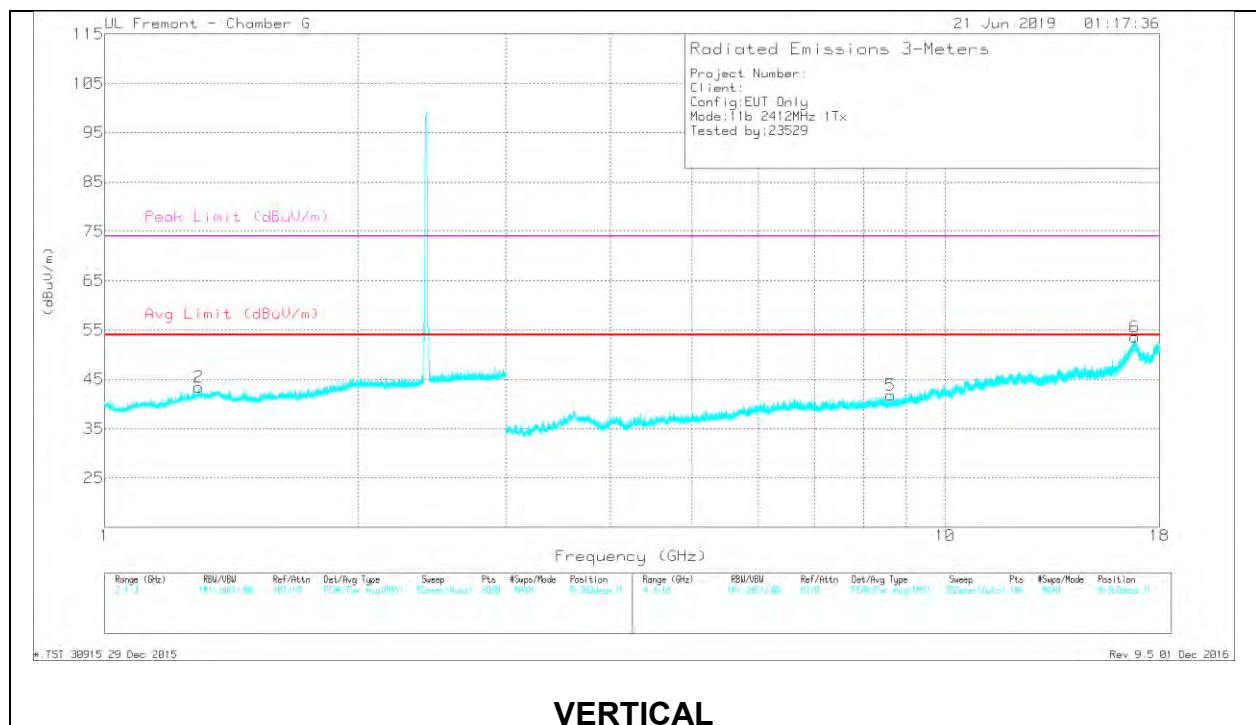
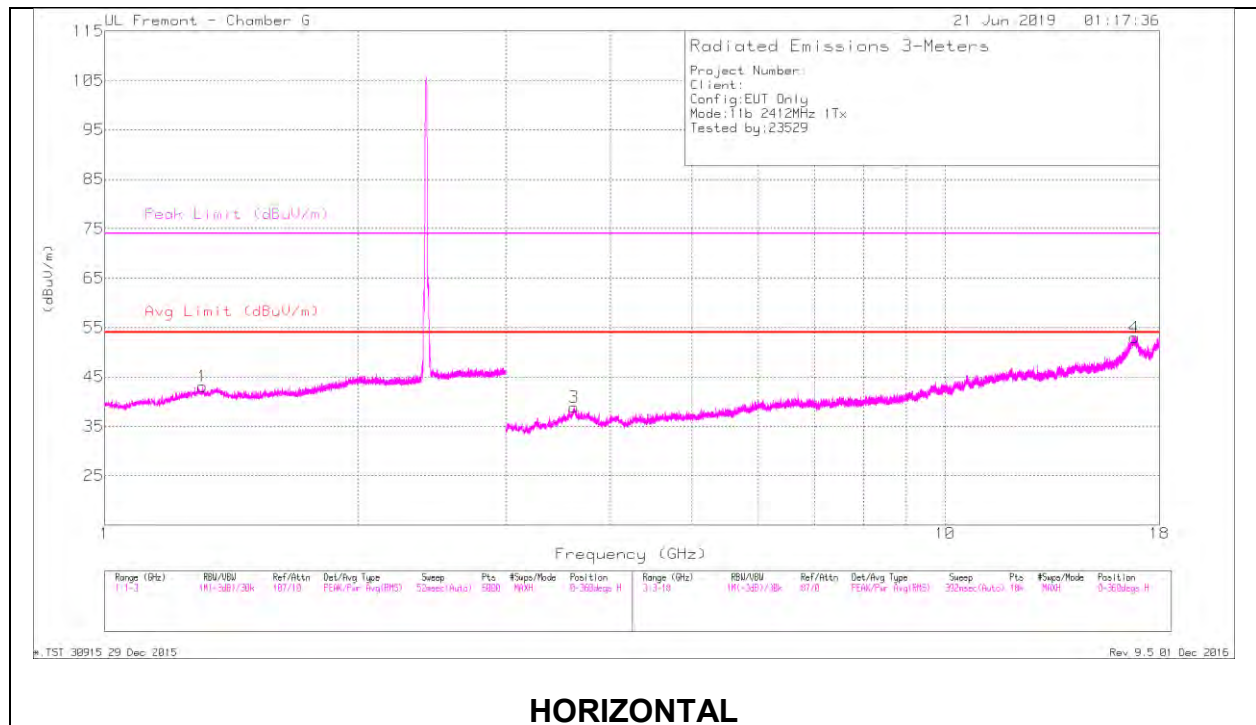
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, CH 1 RESULTS



RADIATED EMISSIONS

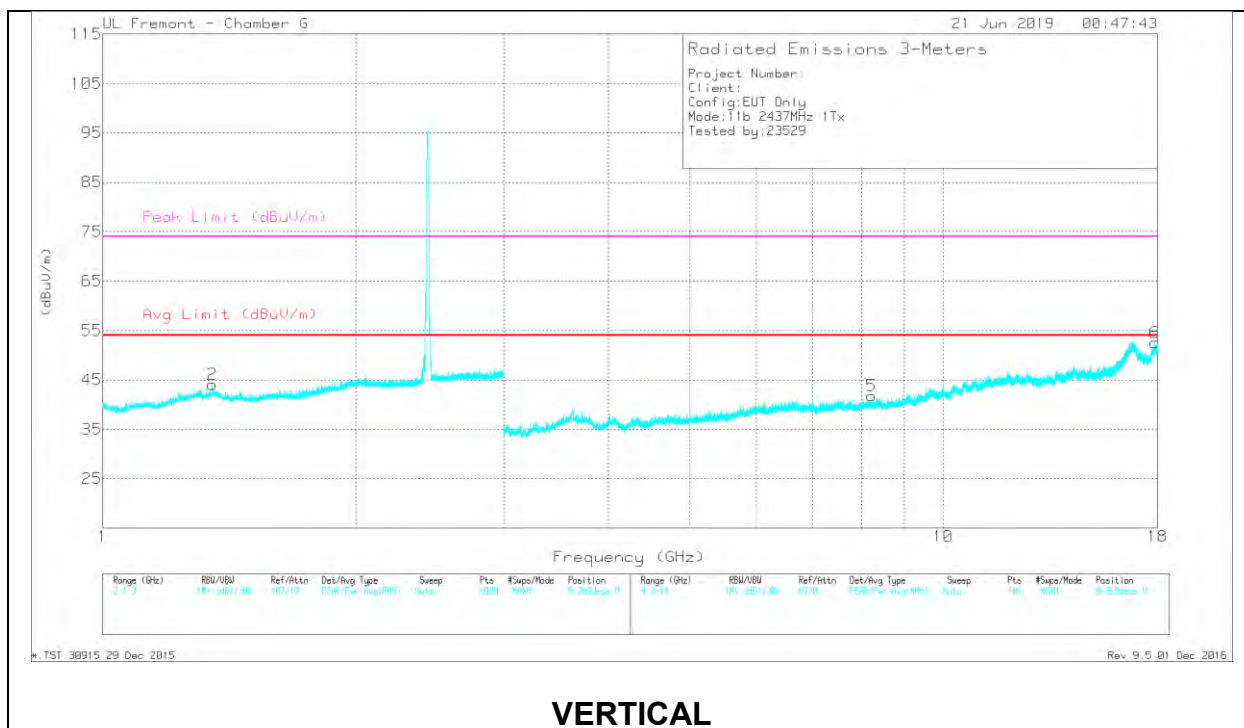
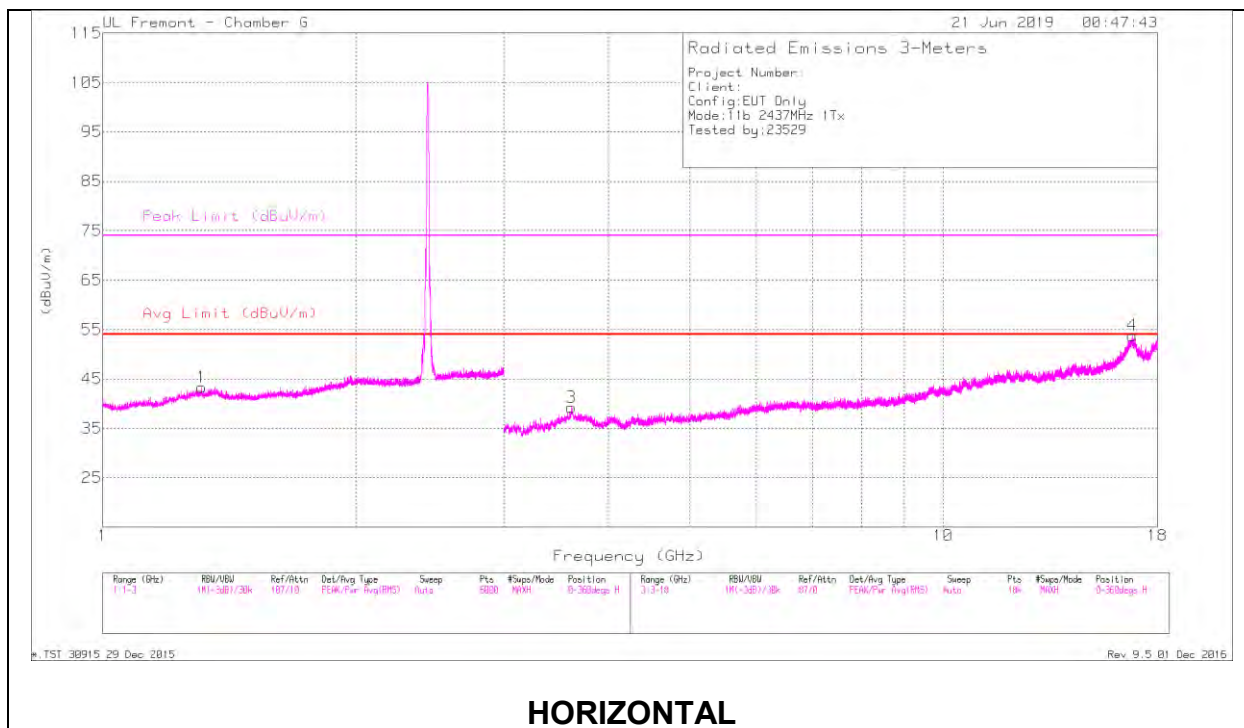
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.306	43.16	PK2	29.8	-23.5	49.46	-	-	74	-24.54	351	176	H
	* 1.308	31.99	MAv1	29.9	-23.5	38.39	54	-15.61	-	-	351	176	H
2	* 1.292	43.86	PK2	29.9	-23.5	50.26	-	-	74	-23.74	255	153	V
	* 1.292	32.19	MAv1	29.9	-23.5	38.59	54	-15.41	-	-	255	153	V
3	* 3.62	40.95	PK2	35.7	-30	46.65	-	-	74	-27.35	85	213	H
	* 3.619	29.92	MAv1	35.7	-30.1	35.52	54	-18.48	-	-	85	213	H
5	8.612	39.04	PK2	36.2	-26.8	48.44	-	-	74	-25.56	108	202	V
4	16.793	36.27	PK2	41.7	-17.4	60.57	-	-	74	-13.43	147	270	H
6	16.843	36.06	PK2	41.7	-17.6	60.16	-	-	74	-13.84	216	181	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

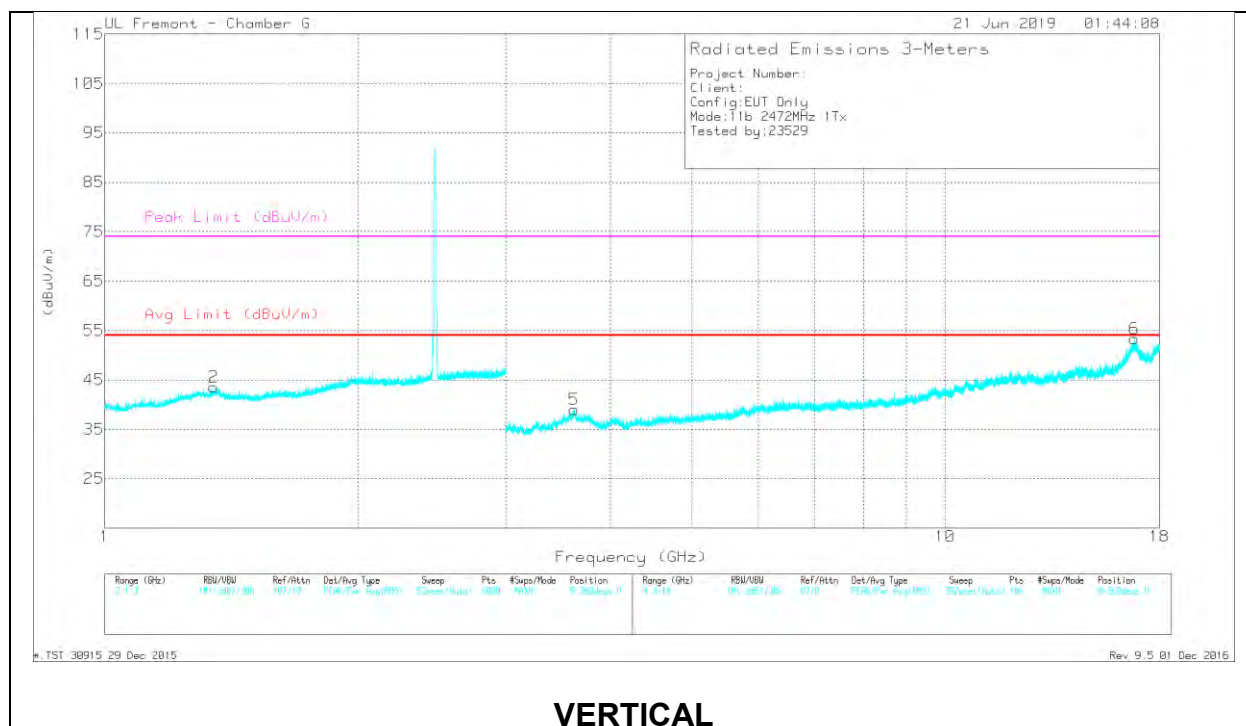
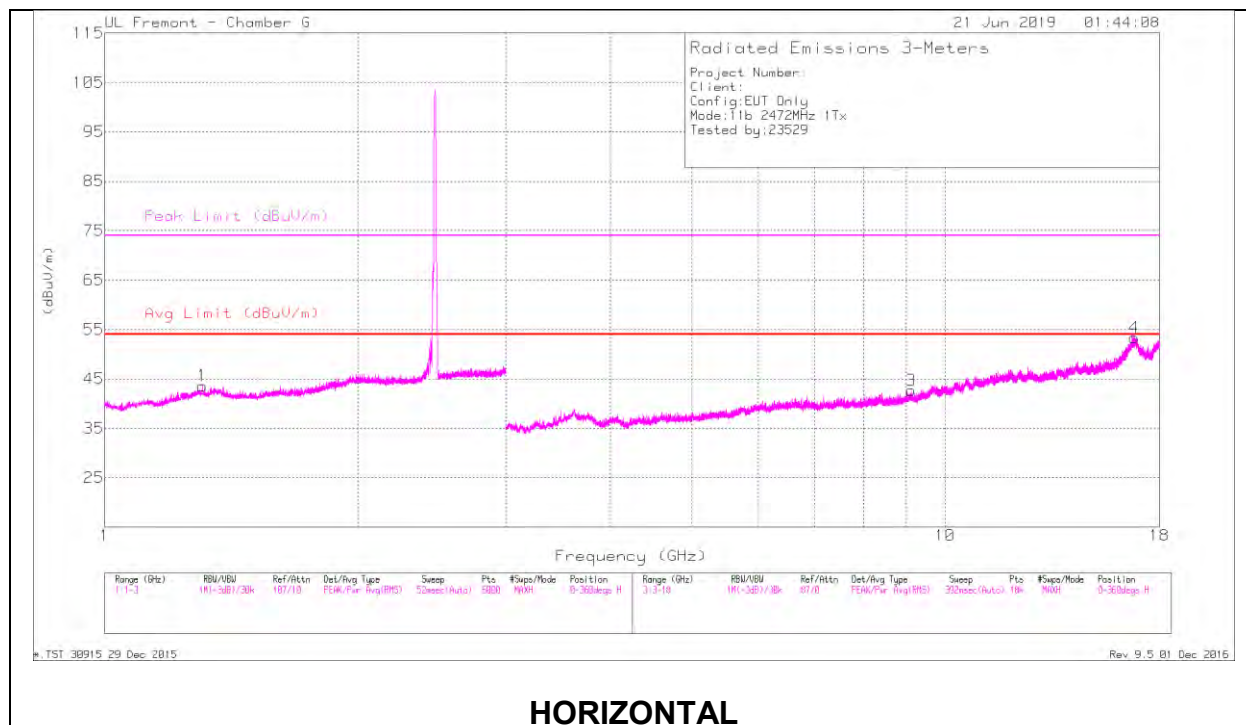


RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.309	44.02	PK2	29.8	-23.5	50.32	-	-	74	-23.68	278	228	H
	* 1.311	32.16	MAv1	29.8	-23.5	38.46	54	-15.54	-	-	278	228	H
2	* 1.348	43.5	PK2	29.9	-23.3	50.1	-	-	74	-23.9	131	196	V
	* 1.351	31.96	MAv1	30	-23.3	38.66	54	-15.34	-	-	131	196	V
3	* 3.617	42.08	PK2	35.7	-30.1	47.68	-	-	74	-26.32	95	154	H
	* 3.614	30.46	MAv1	35.5	-30.2	35.76	54	-18.24	-	-	95	154	H
5	* 8.219	37.97	PK2	36.2	-26.6	47.57	-	-	74	-26.43	194	187	V
	* 8.22	27.37	MAv1	36.2	-26.6	36.97	54	-17.03	-	-	194	187	V
6	* 17.878	35.12	PK2	42.4	-18.1	59.42	-	-	74	-14.58	201	277	V
	* 17.879	23.75	MAv1	42.4	-18.1	48.05	54	-5.95	-	-	201	277	V
4	16.8	36.08	PK2	41.8	-17.5	60.38	-	-	74	-13.62	323	265	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	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	* 1.306	43.46	PK2	29.8	-23.5	49.76	-	-	74	-24.24	252	164	H
	* 1.307	32.18	MAv1	29.9	-23.5	38.58	54	-15.42	-	-	252	165	H
2	* 1.347	31.94	MAv1	29.8	-23.3	38.44	54	-15.56	-	-	252	202	V
	* 1.348	44.92	PK2	29.8	-23.3	51.42	-	-	74	-22.58	252	202	V
3	* 9.123	26.87	MAv1	36.5	-25.6	37.77	54	-16.23	-	-	252	201	H
	* 9.123	37.98	PK2	36.5	-25.6	48.88	-	-	74	-25.12	252	201	H
5	* 3.618	40.89	PK2	35.7	-30.1	46.49	-	-	74	-27.51	252	201	V
	* 3.618	30	MAv1	35.7	-30.1	35.6	54	-18.4	-	-	252	201	V
6	16.795	35.17	PK2	41.8	-17.4	59.57	-	-	74	-14.43	252	201	V
4	16.797	36.06	PK2	41.8	-17.5	60.36	-	-	74	-13.64	252	201	H

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

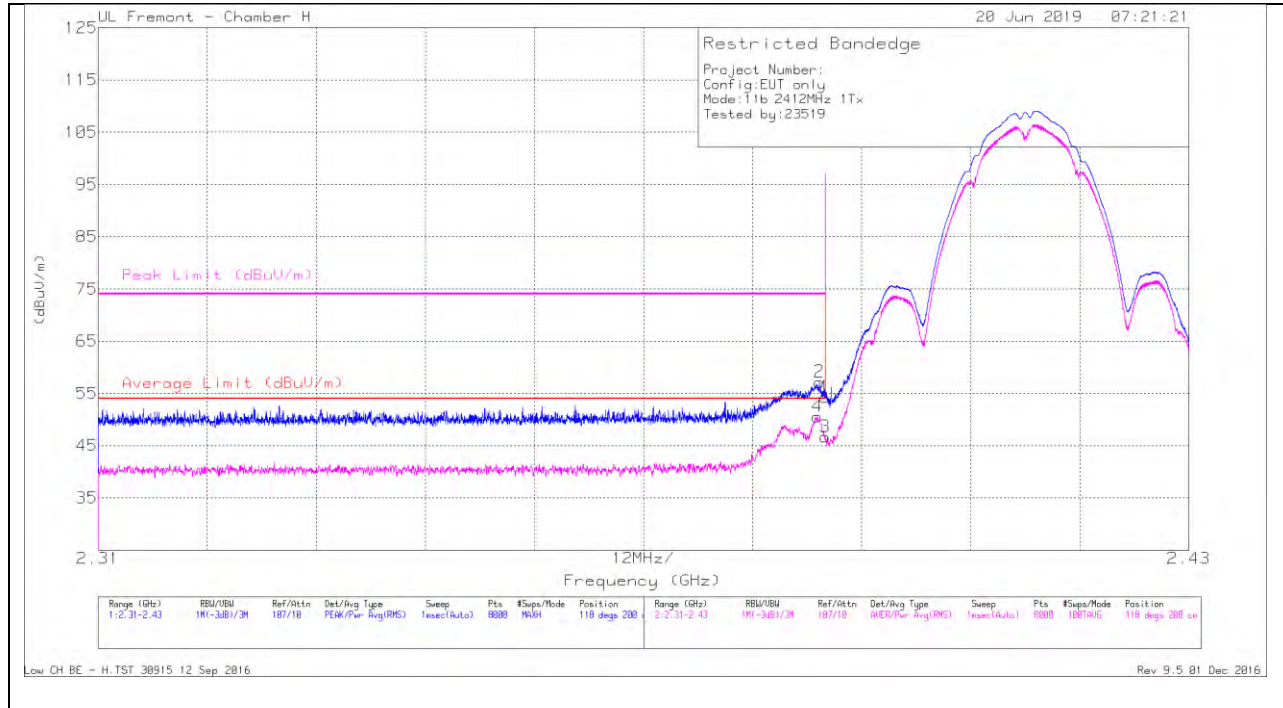
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

1TX Antenna 3 MODE

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



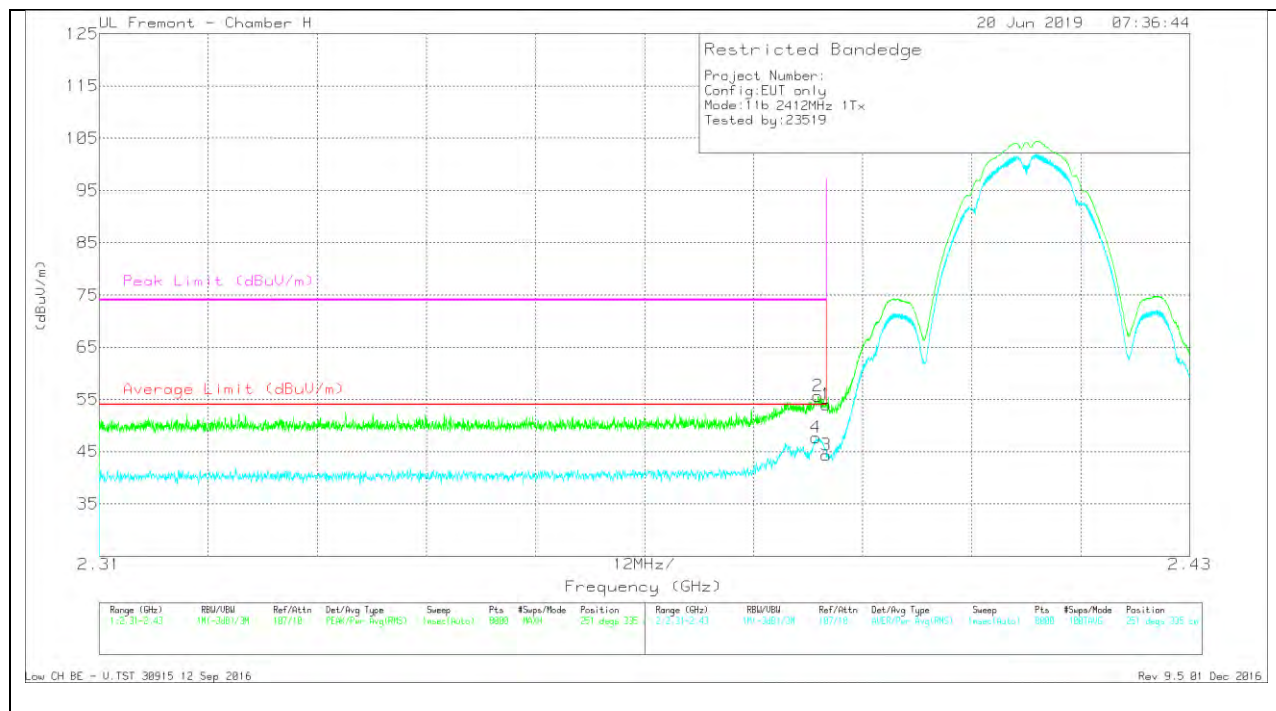
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filt/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	45.64	Pk	32.1	-23.5	54.24	-	-	74	-19.76	118	200	H
2	* 2.389	48.58	Pk	32.1	-23.5	57.18	-	-	74	-16.82	118	200	H
3	* 2.39	38.14	RMS	32.1	-23.5	46.74	54	-7.26	-	-	118	200	H
4	* 2.389	41.89	RMS	32.1	-23.5	50.49	54	-3.51	-	-	118	200	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 T863 (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	47.08	Pk	32.1	-23.5	55.68	-	-	74	-18.32	251	335	V
4	* 2.389	39.11	RMS	32.1	-23.5	47.71	54	-6.29	-	-	251	335	V
1	* 2.39	45.38	Pk	32.1	-23.5	53.98	-	-	74	-20.02	251	335	V
3	* 2.39	35.69	RMS	32.1	-23.5	44.29	54	-9.71	-	-	251	335	V

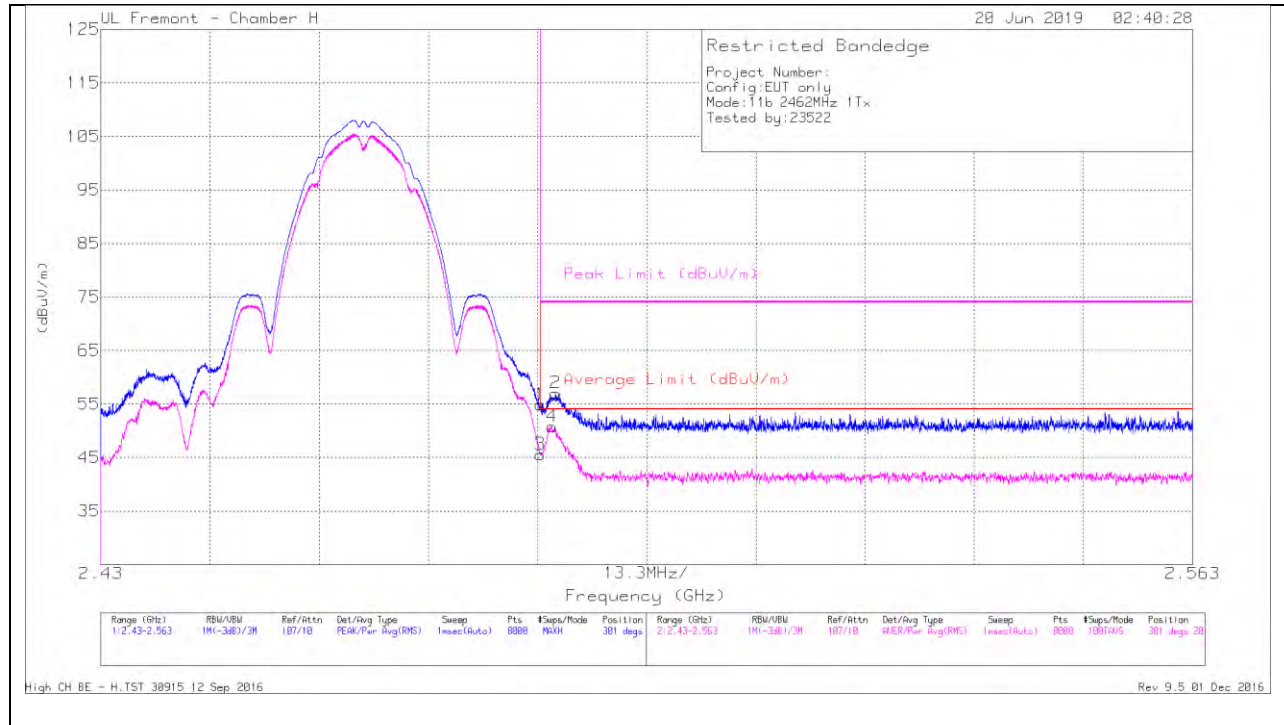
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 11)

HORIZONTAL RESULT



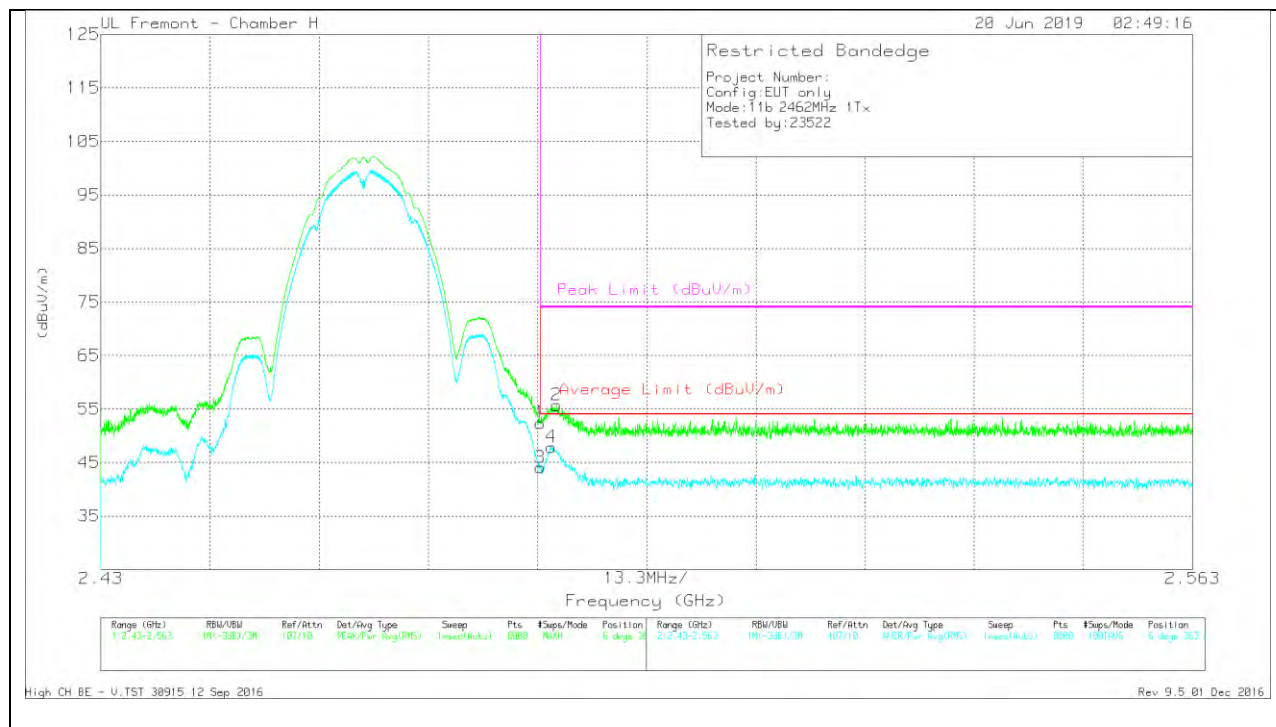
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T663 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	45.69	Pk	32.5	-23.3	54.89	-	-	74	-19.11	301	201	H
2	* 2.485	47.83	Pk	32.5	-23.3	57.03	-	-	74	-16.97	301	201	H
3	* 2.484	36.37	RMS	32.5	-23.3	45.57	54	-8.43	-	-	301	201	H
4	* 2.485	41.56	RMS	32.5	-23.3	50.76	54	-3.24	-	-	301	201	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 T863 (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	43.2	Pk	32.5	-23.3	52.4	-	-	74	-21.6	6	363	V
2	* 2.486	46.51	Pk	32.5	-23.3	55.71	-	-	74	-18.29	6	363	V
3	* 2.484	34.87	RMS	32.5	-23.3	44.07	54	-9.93	-	-	6	363	V
4	* 2.485	38.68	RMS	32.5	-23.3	47.88	54	-6.12	-	-	6	363	V

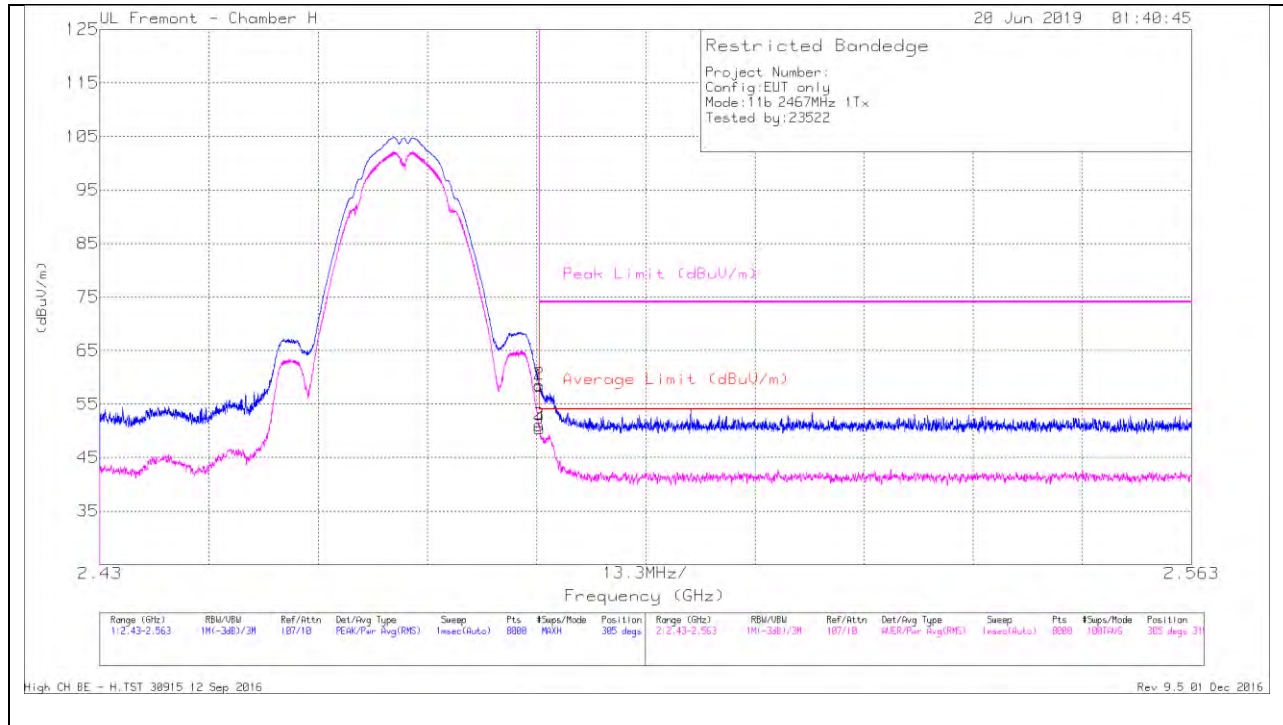
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 12)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T663 (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	49.13	Pk	32.5	-23.3	58.33	-	-	74	-15.67	305	315	H
2	* 2.484	49.4	Pk	32.5	-23.3	58.6	-	-	74	-15.4	305	315	H
3	* 2.484	41.89	RMS	32.5	-23.3	51.09	54	-2.91	-	-	305	315	H
4	* 2.484	41.28	RMS	32.5	-23.3	50.48	54	-3.52	-	-	305	315	H

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

Pk - Peak detector

RMS - RMS detection

UL Fremont - Chamber H

28 Jun 2019 01:49:58

Restricted Bandedge

Project Number:
Config:EUT only
Mode:11b 2467MHz 1Tx
Tested by:23522

(dBuV/m)

Peak Limit (dBuV/m)

Average Limit (dBuV/m)

13.3MHz/

Frequency (GHz)

Range (GHz)	RBW/VBW	Ref/Att	Det/Avg Type	Sweep	Pts	#Sps/Mode	Position	Range (GHz)	RBW/VBW	Ref/Att	Det/Avg Type	Sweep	Pts	#Sps/Mode	Position
1.243-2.563	1M-3dB/3M	107/10	PKR/Pwr Avg(RMS)	Linear(Video)	8000	1600	5 degs 30	1.243-2.563	1M-3dB/3M	107/10	PKR/Pwr Avg(RMS)	Linear(Video)	8000	1600	5 degs 30

High CH BE - U-TST 30915.12 Sep. 2016

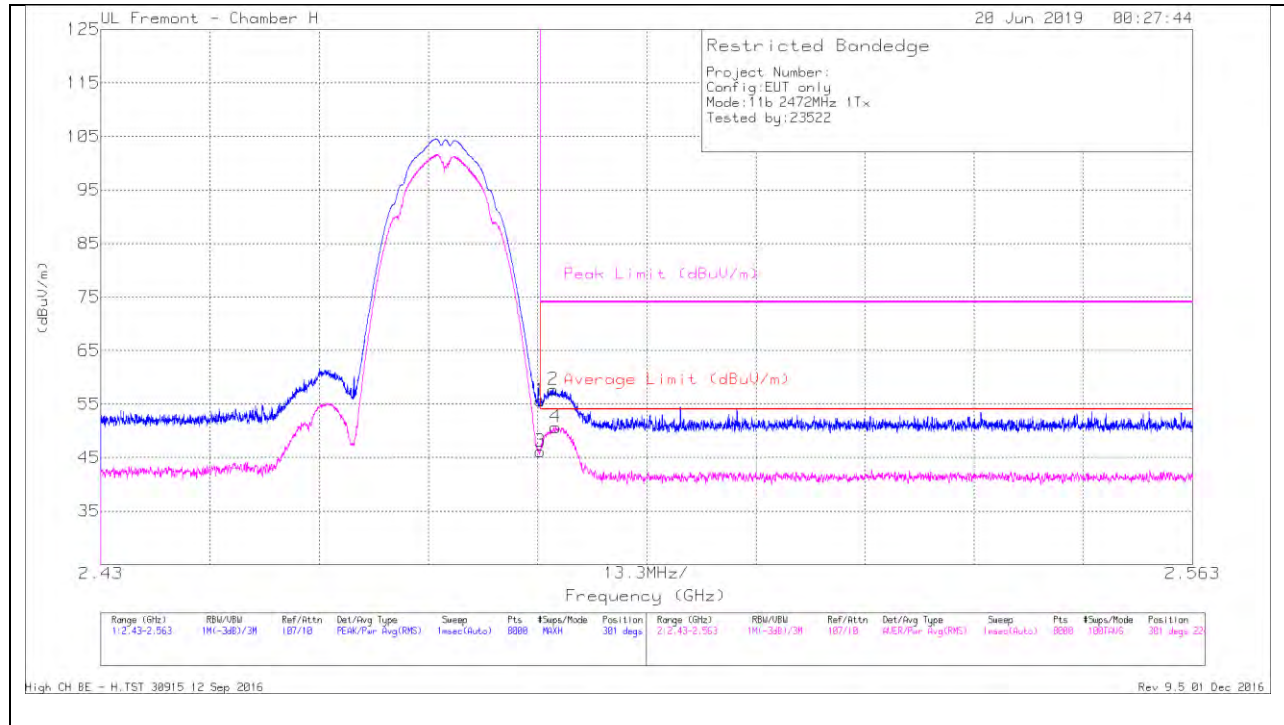
Rev 9.5 01 Dec 2016

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (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 (Degs)	Height (cm)	Polarity
1	* 2.484	46.9	Pk	32.5	-23.3	56.1	-	-	74	-17.9	6	366	V
2	* 2.484	47.3	Pk	32.5	-23.3	56.5	-	-	74	-17.5	6	366	V
3	* 2.484	38.8	RMS	32.5	-23.3	48	54	-6	-	-	6	366	V
4	* 2.484	38.32	RMS	32.5	-23.3	47.52	54	-6.48	-	-	6	366	V

Pk - Peak detector
RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 13)

HORIZONTAL RESULT



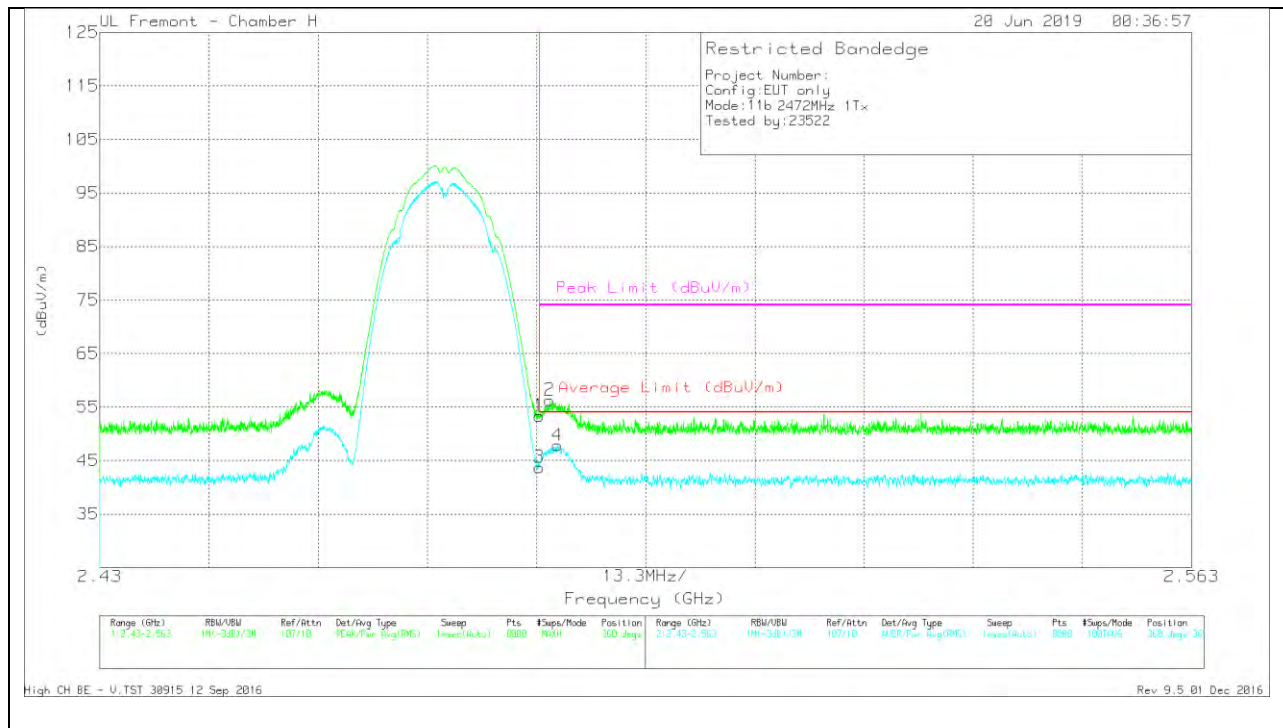
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T663 (dB/m)	Amp/Cb/Filt/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	46.46	Pk	32.5	-23.3	55.66	-	-	74	-18.34	301	224	H
2	* 2.485	48.53	Pk	32.5	-23.3	57.73	-	-	74	-16.27	301	224	H
3	* 2.484	36.97	RMS	32.5	-23.3	46.17	54	-7.83	-	-	301	224	H
4	* 2.485	41.48	RMS	32.5	-23.3	50.68	54	-3.32	-	-	301	224	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 T863 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	44.14	Pk	32.5	-23.3	53.34	-	-	74	-20.66	360	365	V
3	* 2.484	34.53	RMS	32.5	-23.3	43.73	54	-10.27	-	-	360	365	V
2	* 2.485	47.08	Pk	32.5	-23.3	56.28	-	-	74	-17.72	360	365	V
4	* 2.486	38.64	RMS	32.5	-23.3	47.84	54	-6.16	-	-	360	365	V

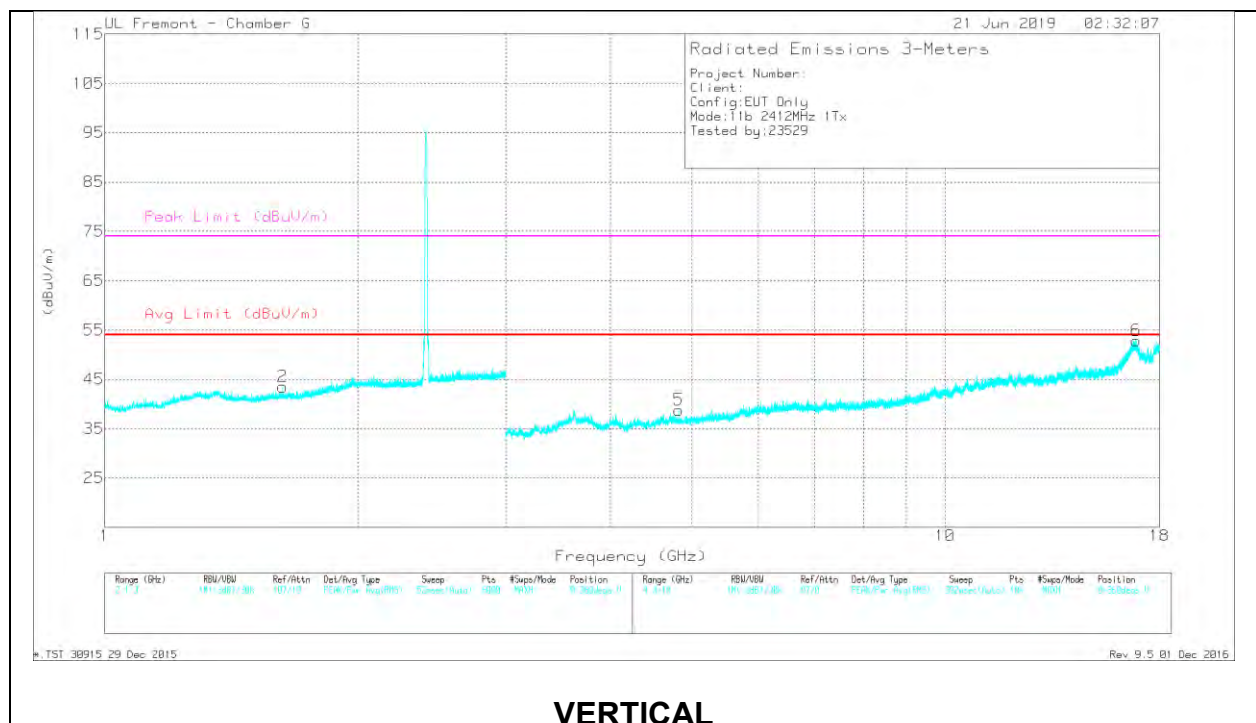
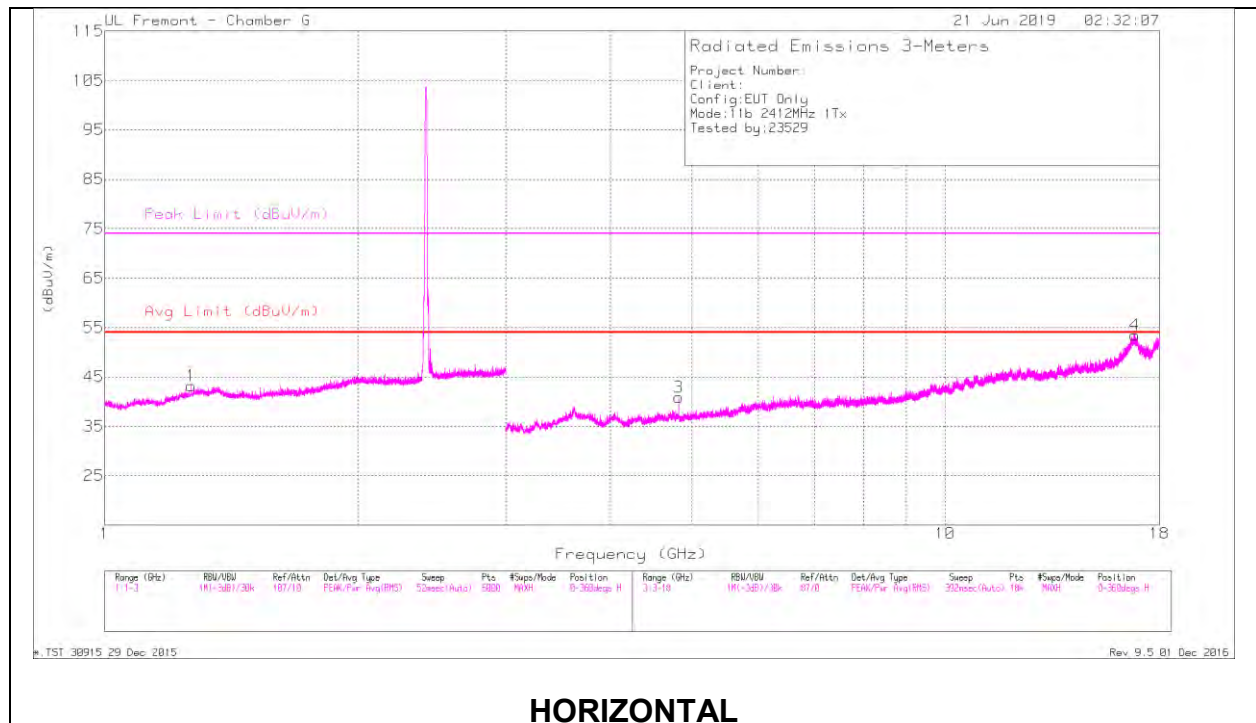
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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 T120 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin(dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.268	44.52	PK2	29.4	-23.6	50.32	-	-	74	-23.68	360	101	H
	* 1.267	32.1	MAv1	29.4	-23.6	37.9	54	-16.1	-	-	360	101	H
3	* 4.824	40.32	PK2	34.3	-29.8	44.82	-	-	74	-29.18	211	137	H
	* 4.824	30.09	MAv1	34.3	-29.8	34.59	54	-19.41	-	-	211	137	H
5	* 4.824	41.44	PK2	34.3	-29.8	45.94	-	-	74	-28.06	99	211	V
	* 4.824	30.65	MAv1	34.3	-29.8	35.15	54	-18.85	-	-	99	211	V
2	1.629	42.62	PK2	28.1	-21.2	49.52	-	-	74	-24.48	99	202	V
4	16.835	36.35	PK2	41.7	-17.8	60.25	-	-	74	-13.75	99	202	H
6	16.89	36.17	PK2	41.6	-18.3	59.47	-	-	74	-14.53	99	202	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average