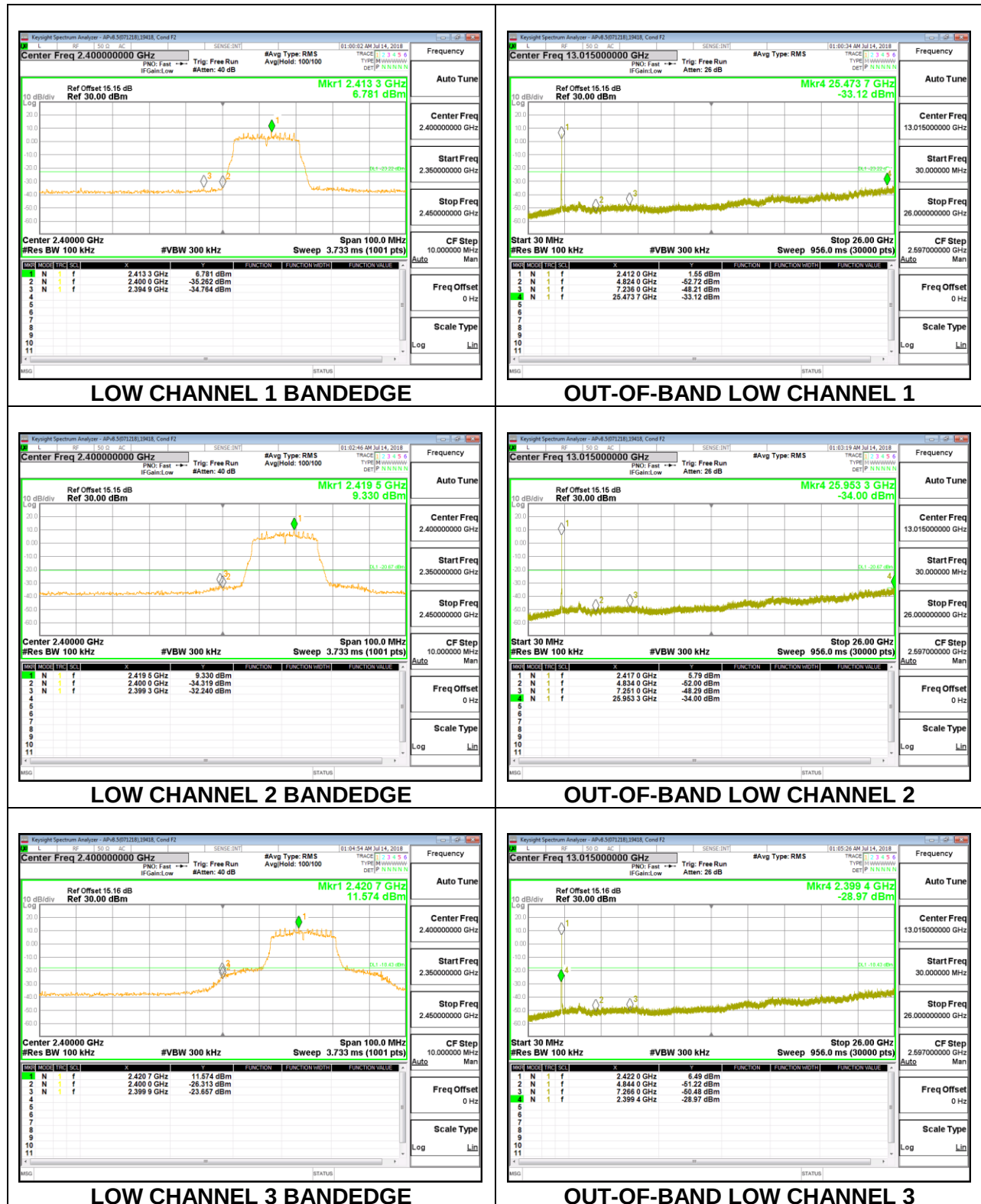
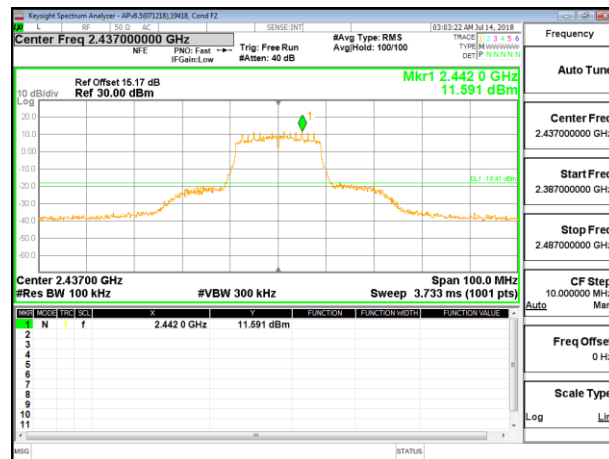
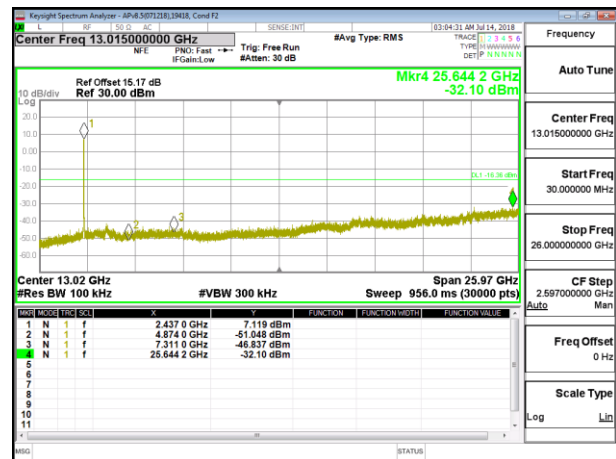


1TX Antenna 3 MODE

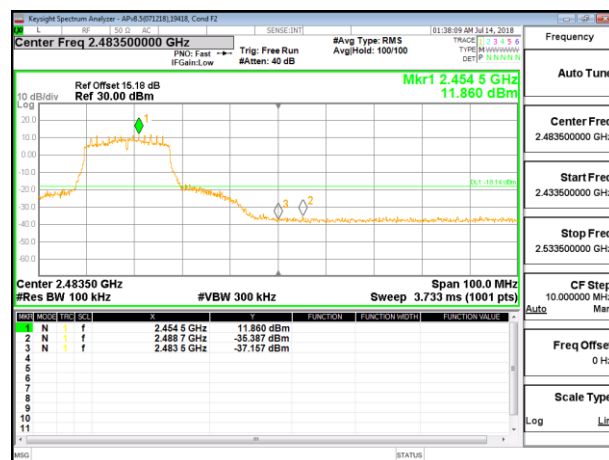




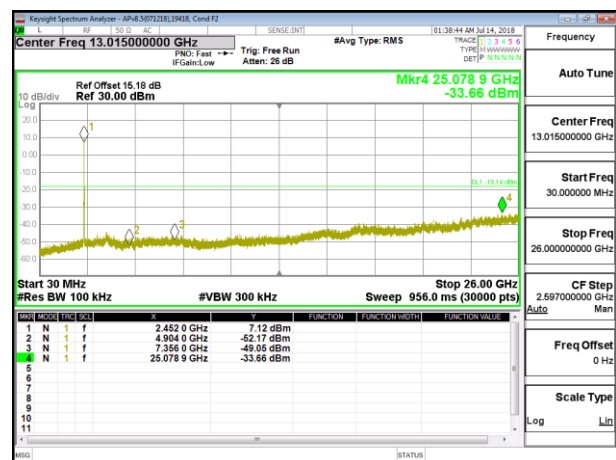
IN-BAND REFERENCE LEVEL



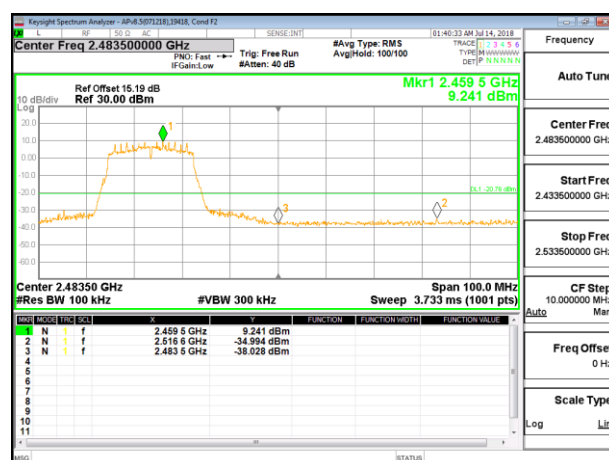
OUT-OF-BAND MID CHANNEL



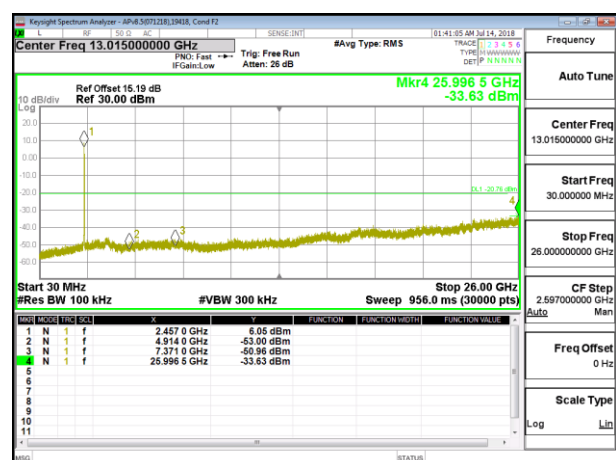
HIGH CHANNEL 9 BANDEDGE



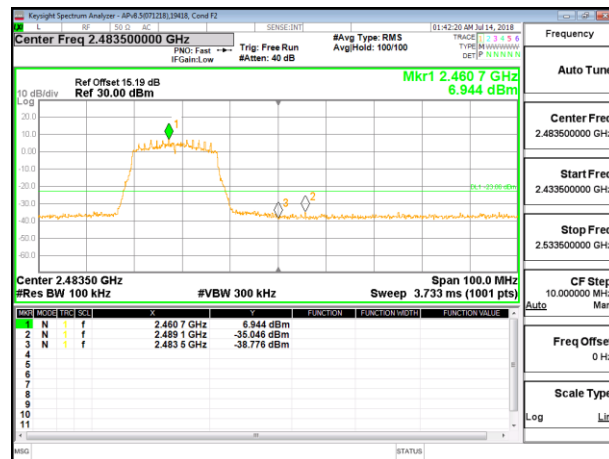
OUT-OF-BAND HIGH CHANNEL 9



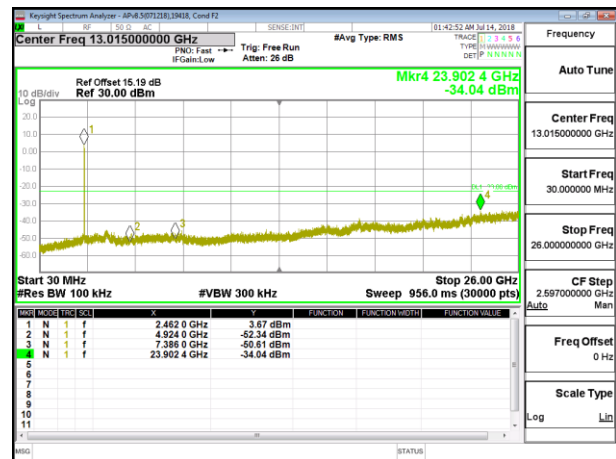
HIGH CHANNEL 10 BANDEDGE



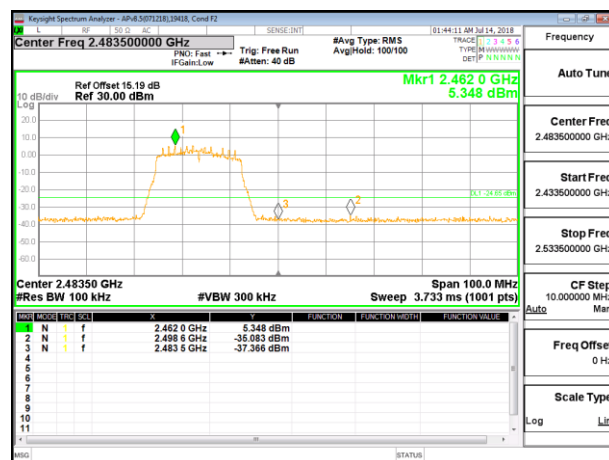
OUT-OF-BAND HIGH CHANNEL 10



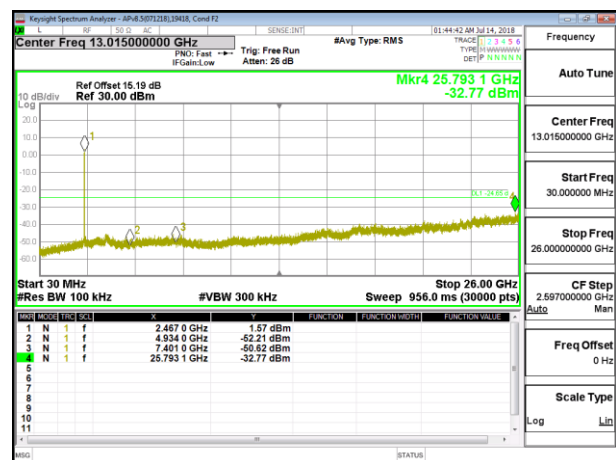
HIGH CHANNEL 11 BANDEDGE



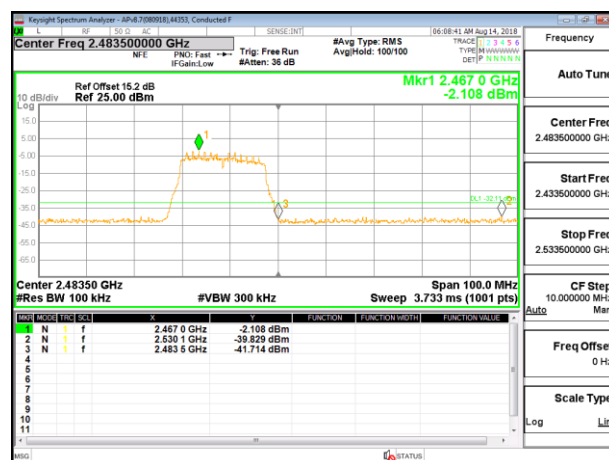
OUT-OF-BAND HIGH CHANNEL 11



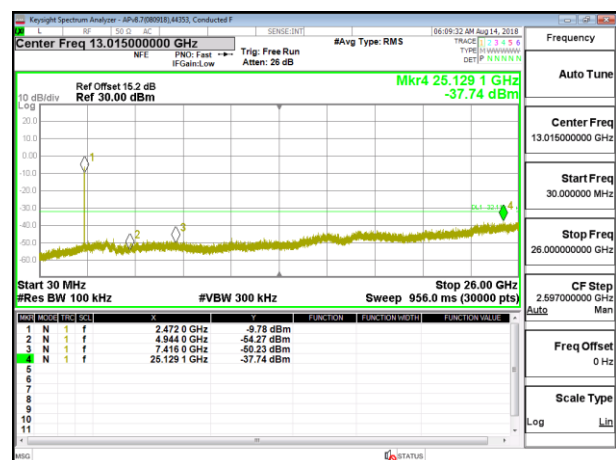
HIGH CHANNEL 12 BANDEDGE



OUT-OF-BAND HIGH CHANNEL 12

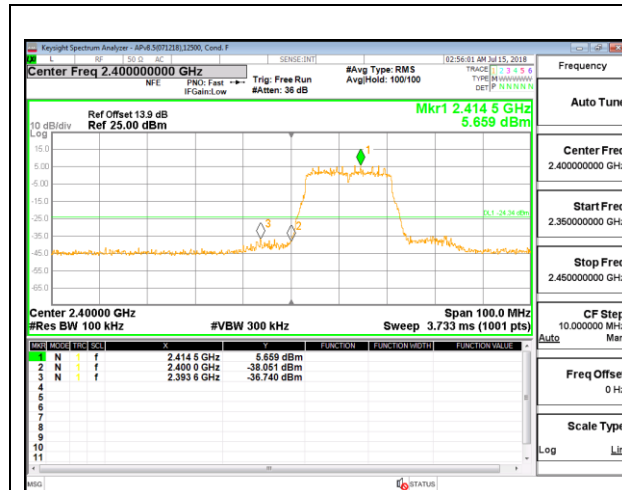


HIGH CHANNEL 13 BANDEDGE

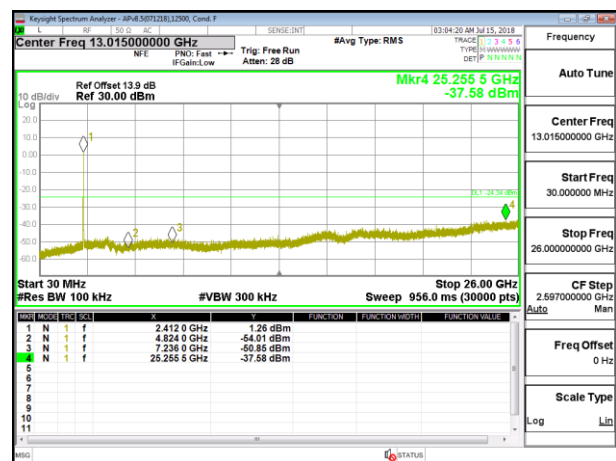


OUT-OF-BAND HIGH CHANNEL 13

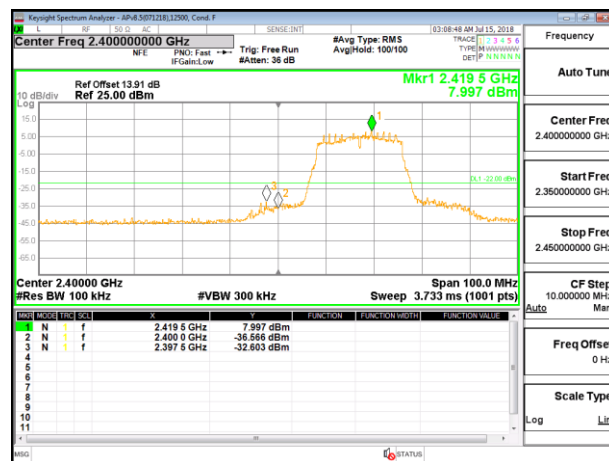
8.6.3. 2TX Antenna 4 + Antenna 3 CDD MODE



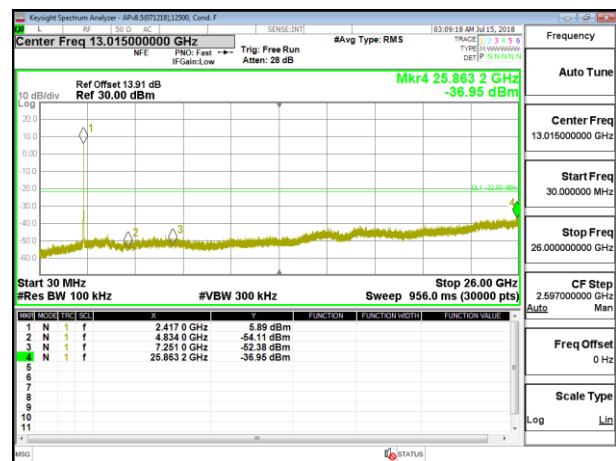
LOW CHANNEL 1 BANDEDGE ANT 4



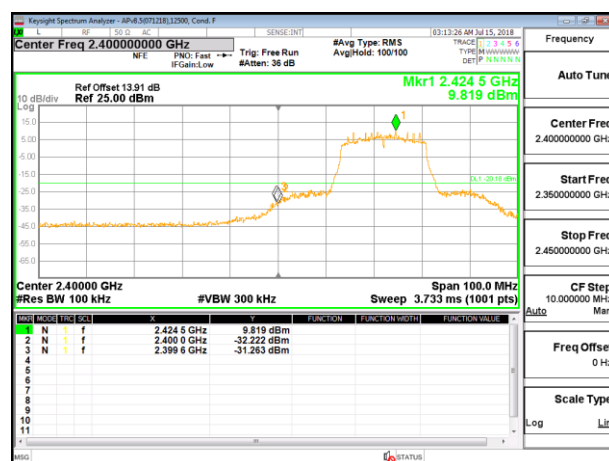
OUT-OF-BAND LOW CHANNEL 1 ANT 4



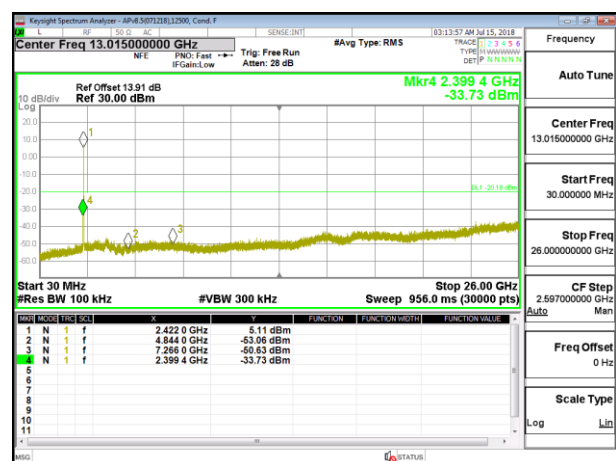
LOW CHANNEL 2 BANDEDGE ANT 4



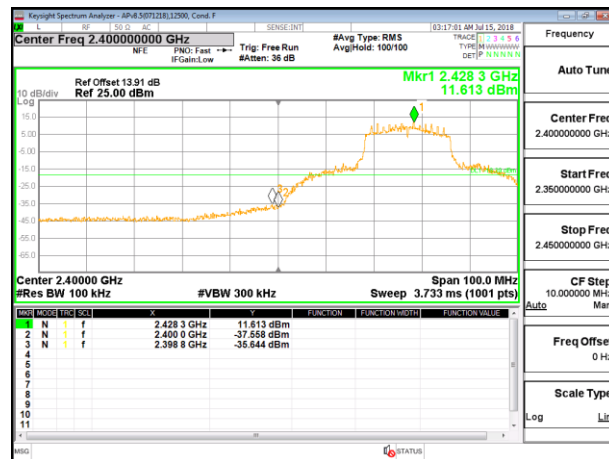
OUT-OF-BAND LOW CHANNEL 2 ANT 4



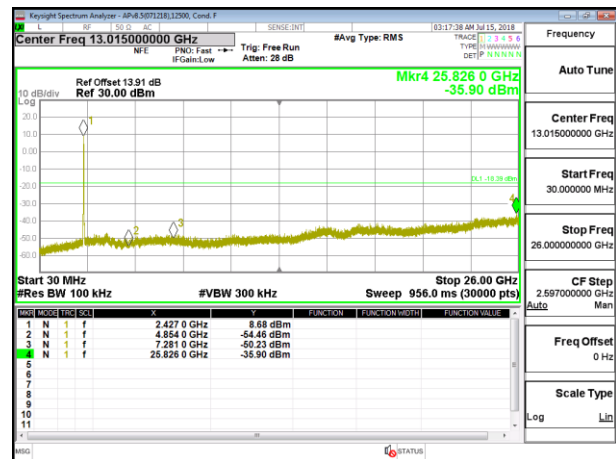
LOW CHANNEL 3 BANDEDGE ANT 4



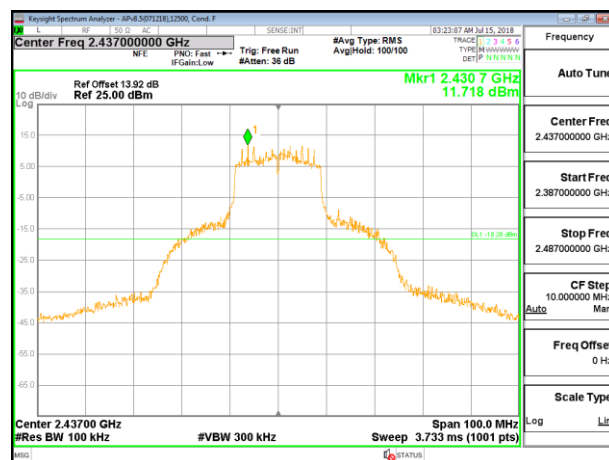
OUT-OF-BAND LOW CHANNEL 3 ANT 4



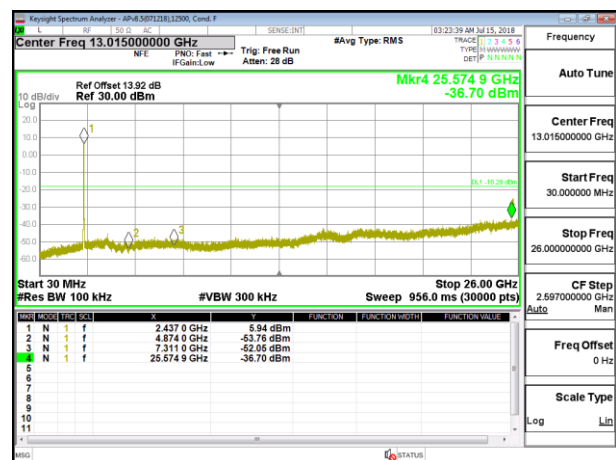
LOW CHANNEL 4 BANDEDGE ANT 4



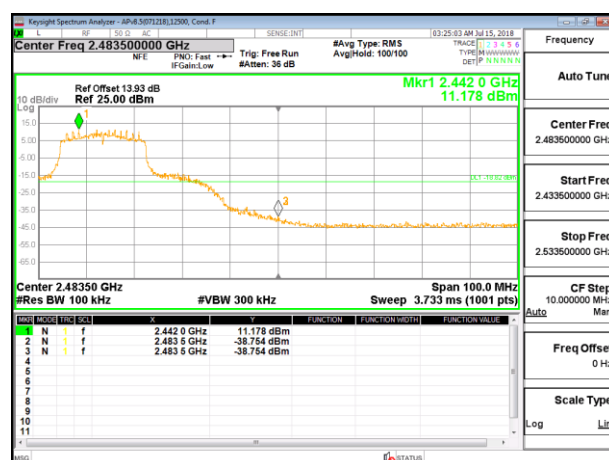
OUT-OF-BAND LOW CHANNEL 4 ANT 4



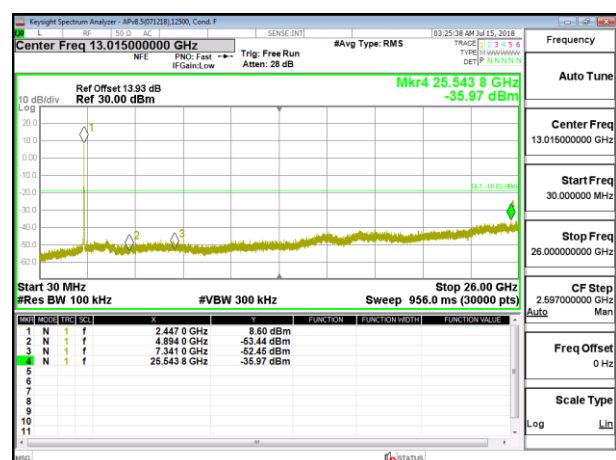
IN-BAND REFERENCE LEVEL ANT 4



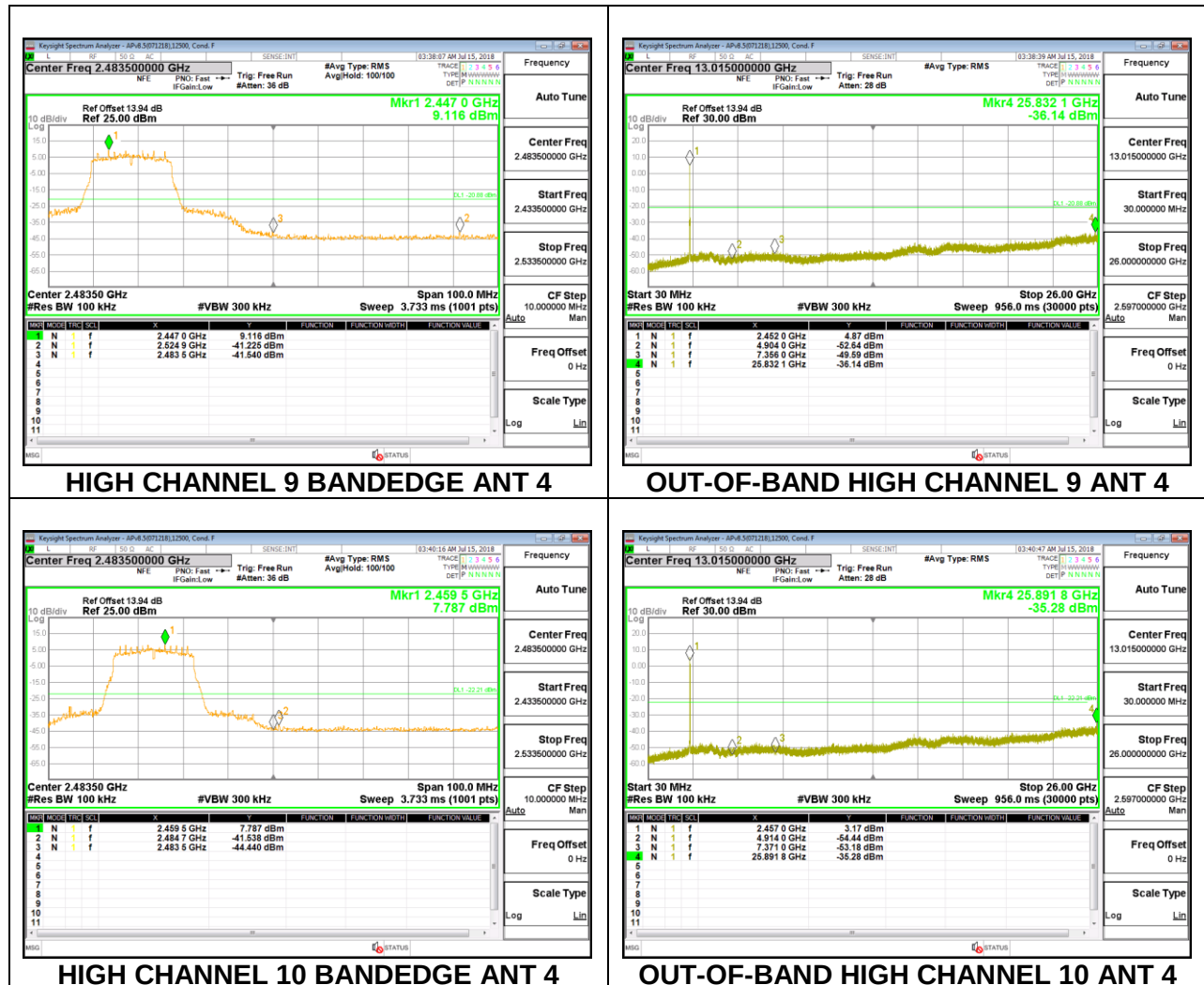
OUT-OF-BAND MID CHANNEL ANT 4

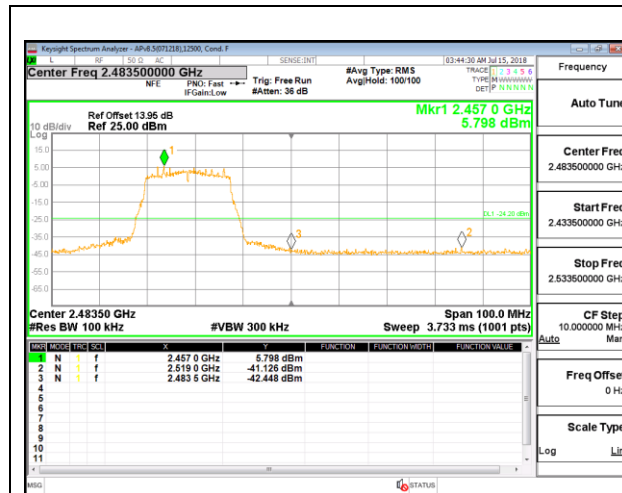


HIGH CHANNEL 8 BANDEDGE ANT 4

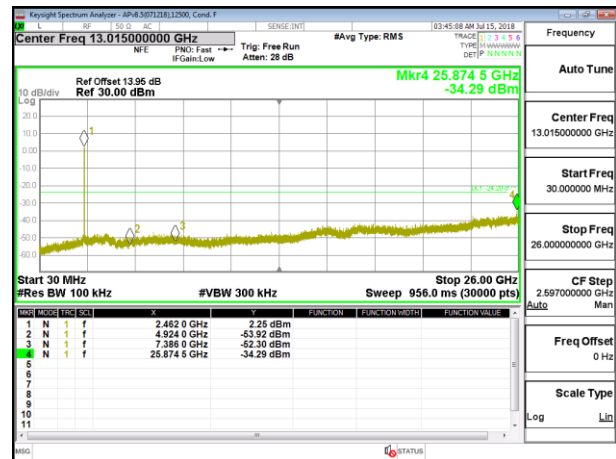


OUT-OF-BAND HIGH CHANNEL 8 ANT 4

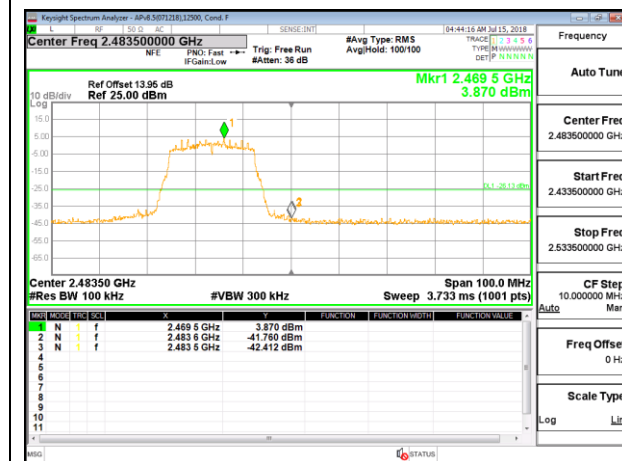




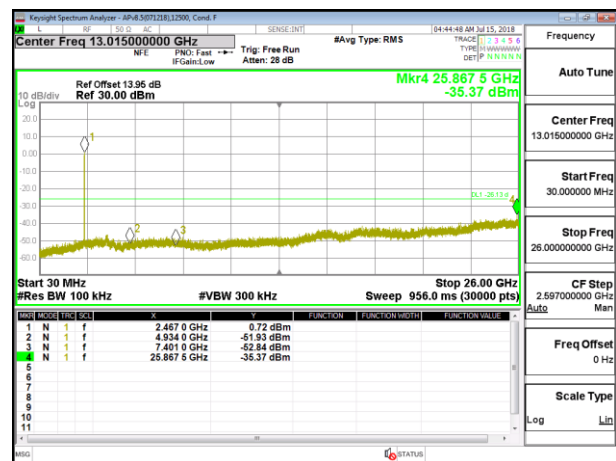
HIGH CHANNEL 11 BANDEDGE ANT 4



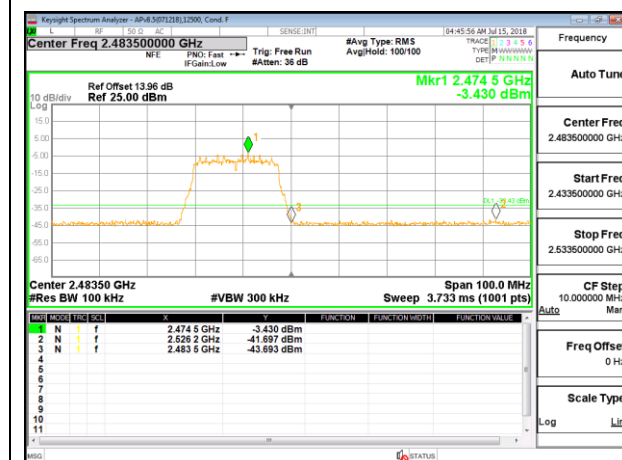
OUT-OF-BAND HIGH CHANNEL 11 ANT 4



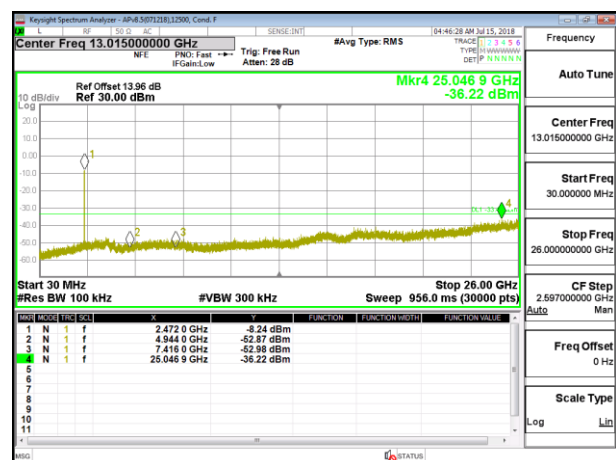
HIGH CHANNEL 12 BANDEDGE ANT 4



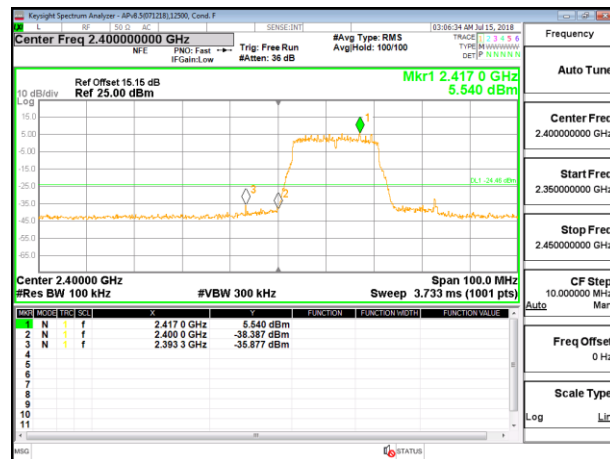
OUT-OF-BAND HIGH CHANNEL 12 ANT 4



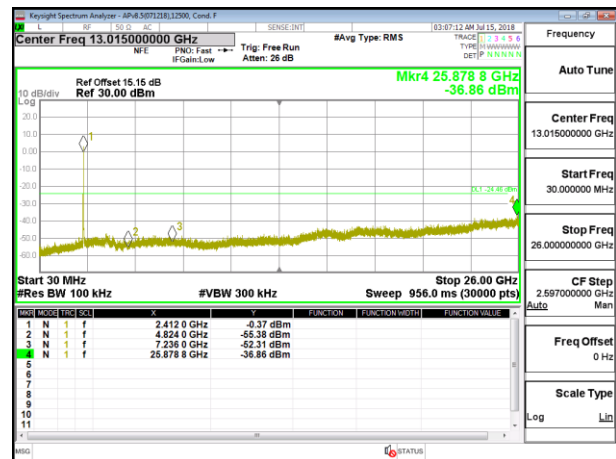
HIGH CHANNEL 13 BANDEDGE ANT 4



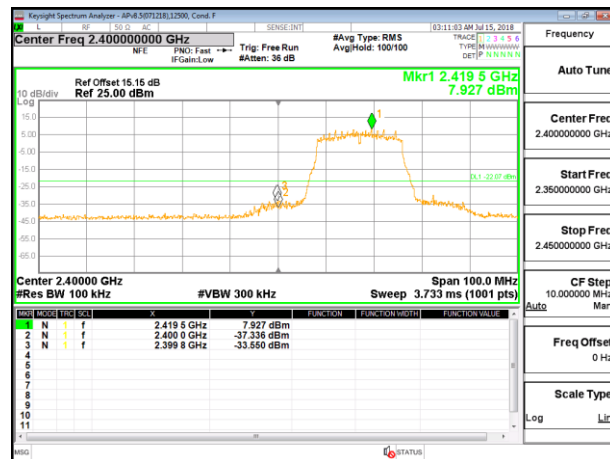
OUT-OF-BAND HIGH CHANNEL 13 ANT 4



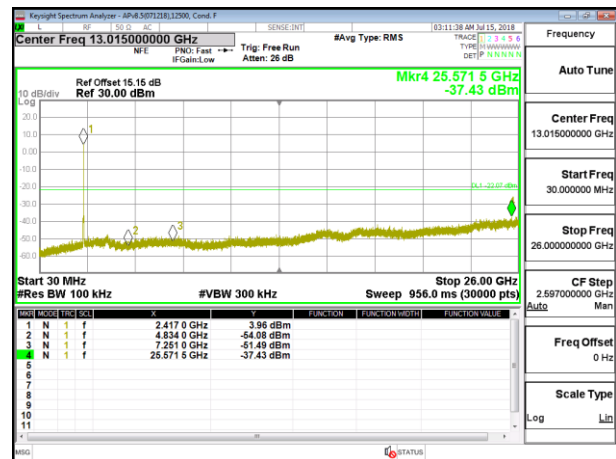
LOW CHANNEL 1 BANDEDGE ANT 3



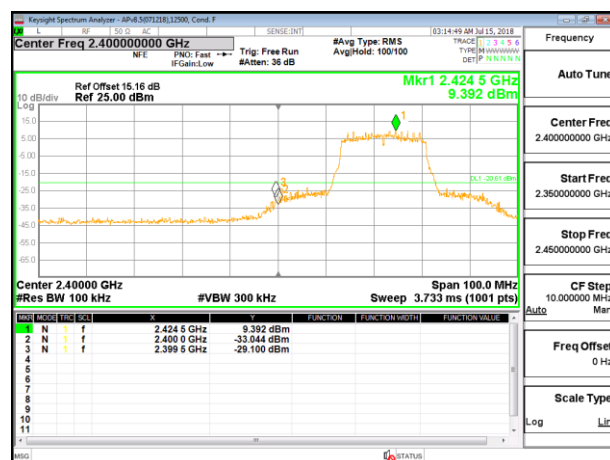
OUT-OF-BAND LOW CHANNEL 1 ANT 3



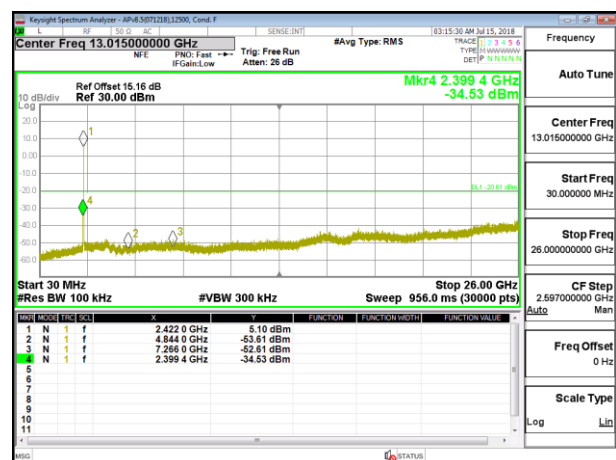
LOW CHANNEL 2 BANDEDGE ANT 3



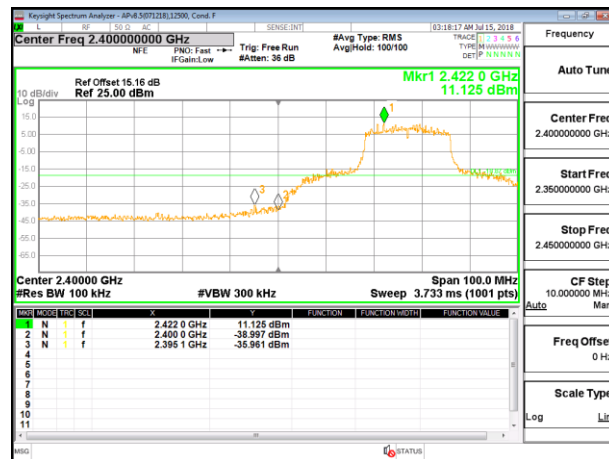
OUT-OF-BAND LOW CHANNEL 2 ANT 3



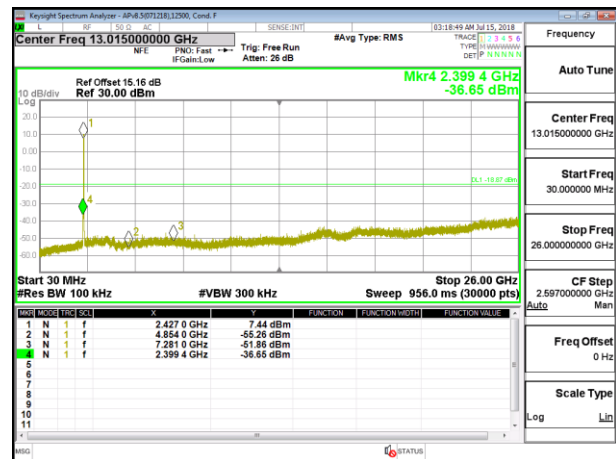
LOW CHANNEL 3 BANDEDGE ANT 3



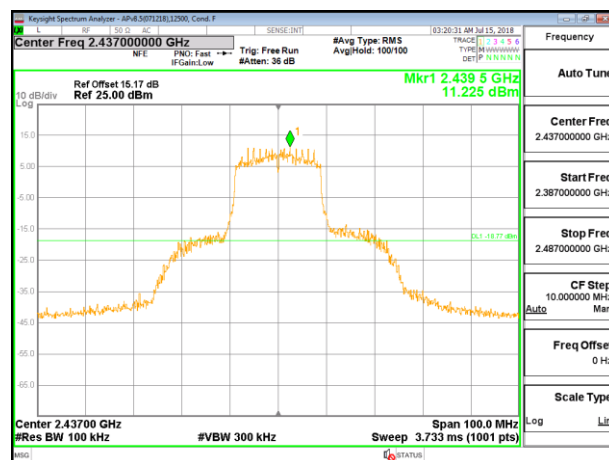
OUT-OF-BAND LOW CHANNEL 3 ANT 3



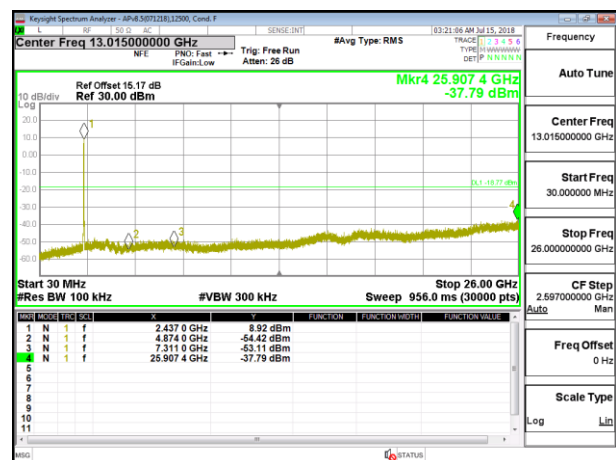
LOW CHANNEL 4 BANDEDGE ANT 3



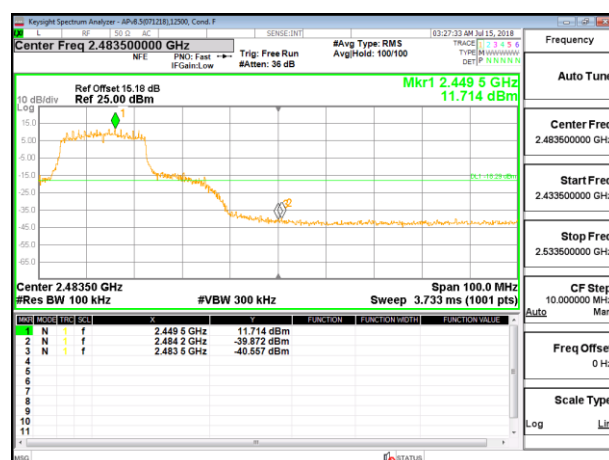
OUT-OF-BAND LOW CHANNEL 4 ANT 3



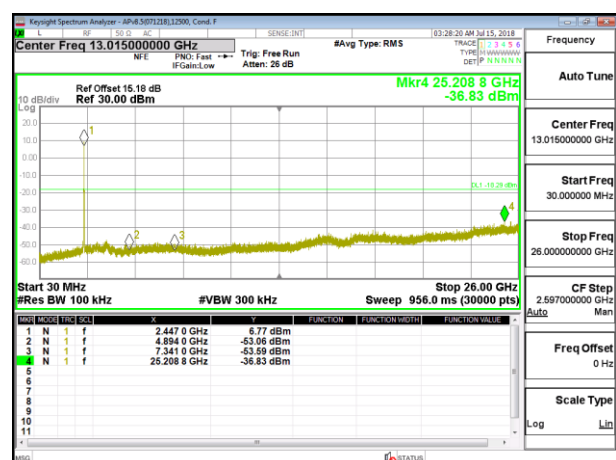
IN-BAND REFERENCE LEVEL ANT 3



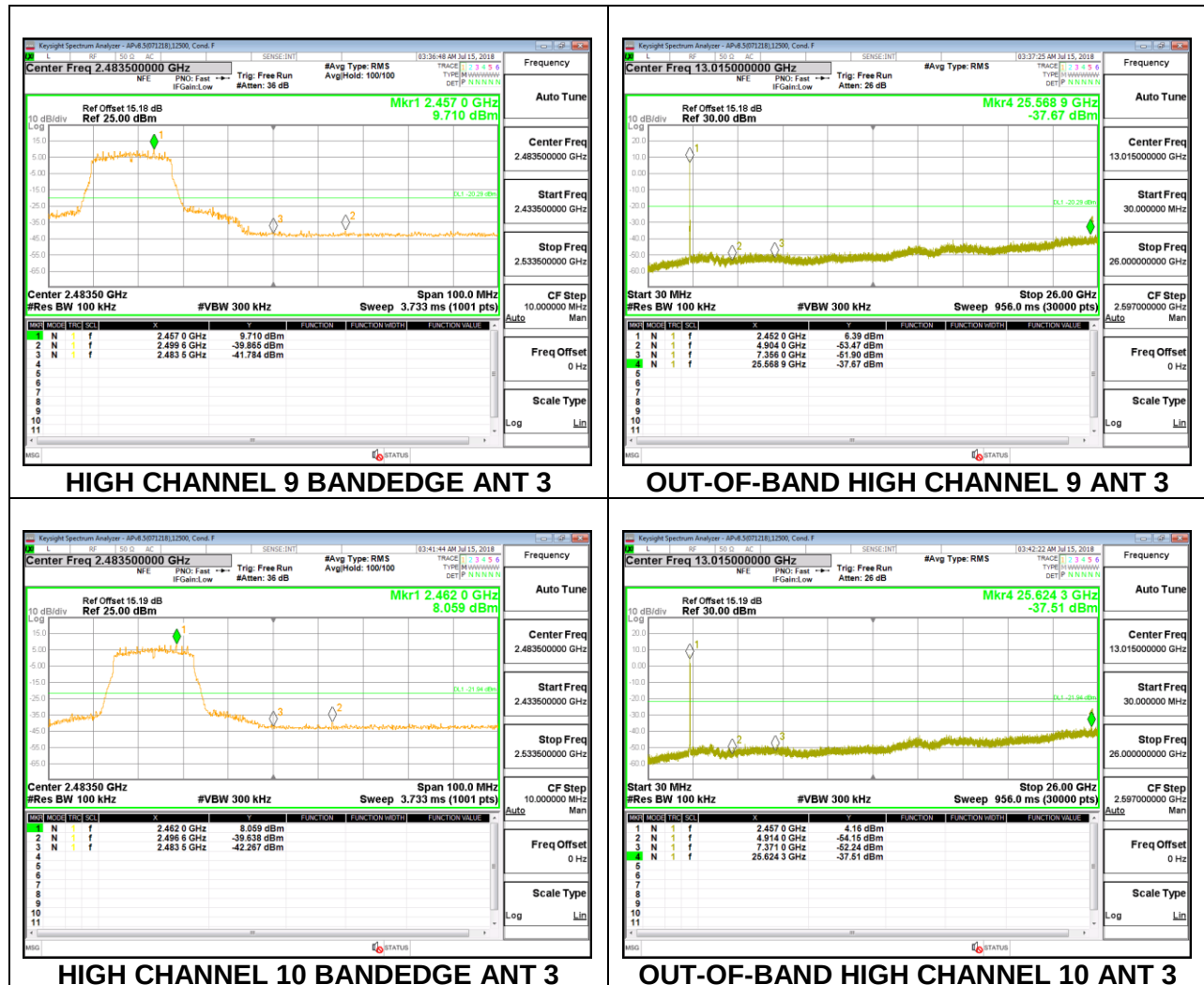
OUT-OF-BAND MID CHANNEL ANT 3

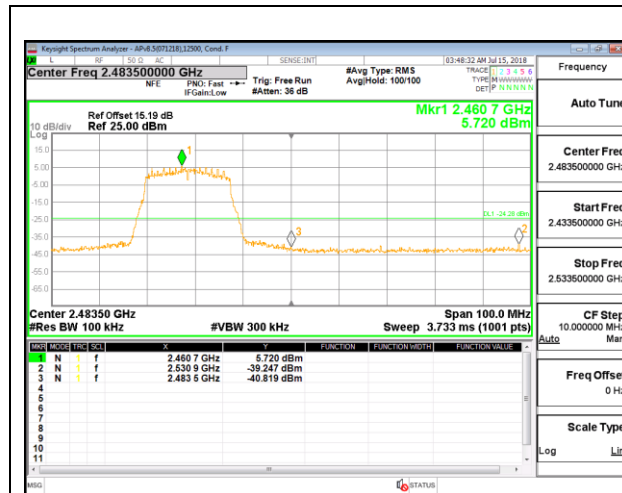


HIGH CHANNEL 8 BANDEDGE ANT 3

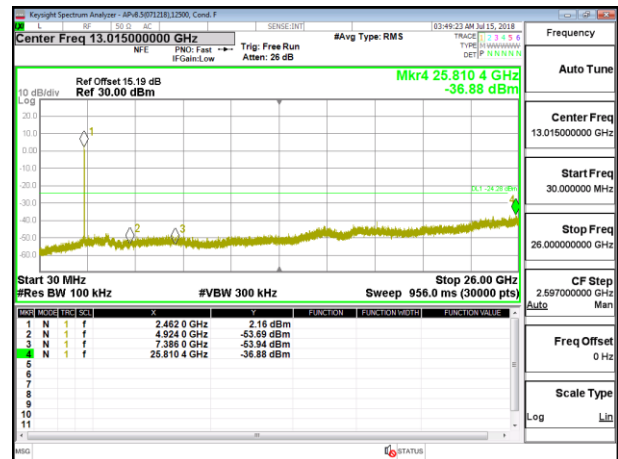


OUT-OF-BAND HIGH CHANNEL 8 ANT 3

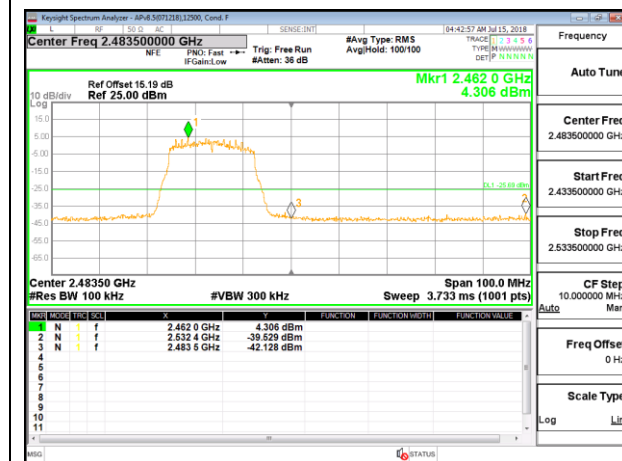




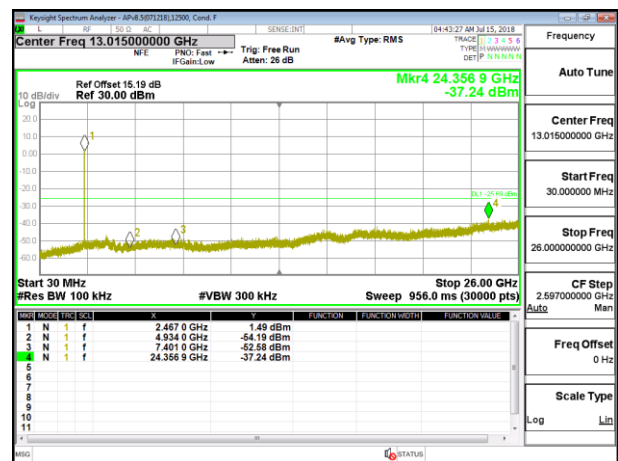
HIGH CHANNEL 11 BANDEDGE ANT 3



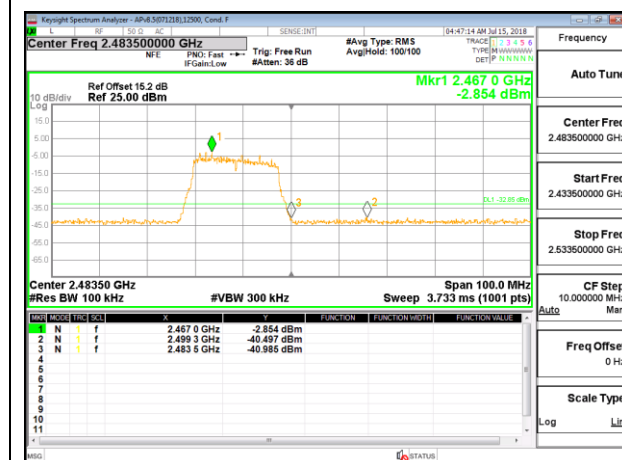
OUT-OF-BAND HIGH CHANNEL 11 ANT 3



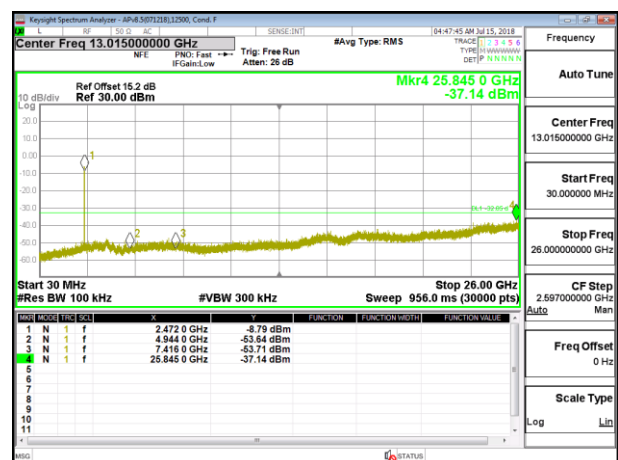
HIGH CHANNEL 12 BANDEDGE ANT 3



OUT-OF-BAND HIGH CHANNEL 12 ANT 3



HIGH CHANNEL 13 BANDEDGE ANT 3



OUT-OF-BAND HIGH CHANNEL 13 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.

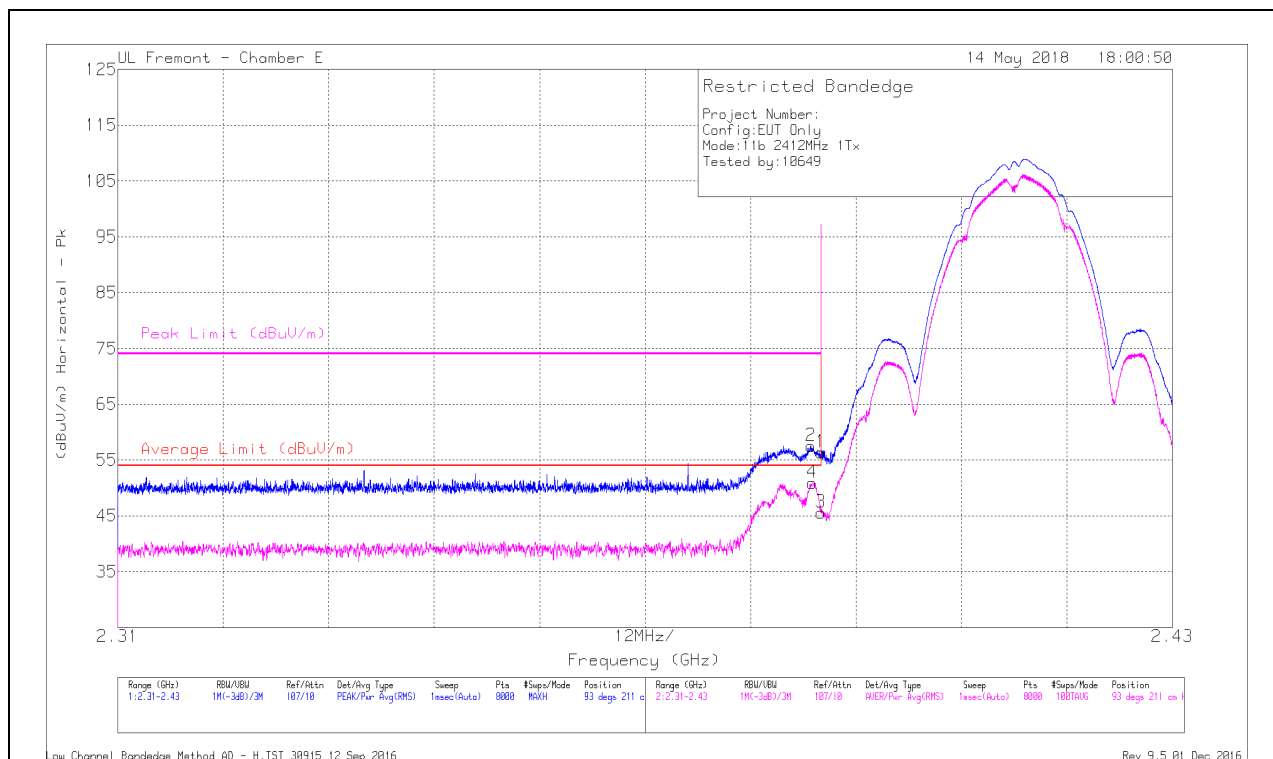
9.1. TRANSMITTER ABOVE 1 GHz

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

1TX Antenna 4

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



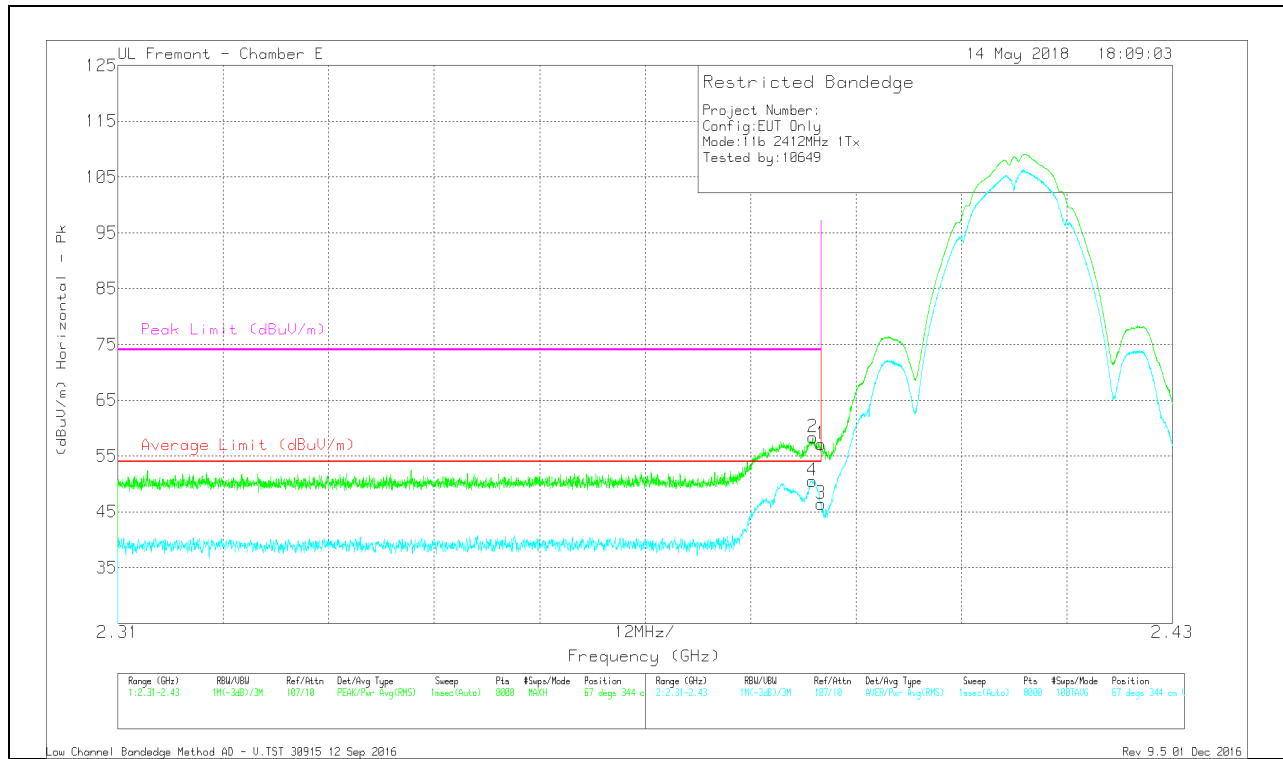
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.389	48.2	Pk	31.9	-22.6	57.5	-	-	74	-16.5	93	211	H
4	* 2.389	41.63	RMS	31.9	-22.6	50.93	54	-3.07	-	-	93	211	H
1	* 2.39	47.02	Pk	32	-22.6	56.42	-	-	74	-17.58	93	211	H
3	* 2.39	36.12	RMS	32	-22.6	45.52	54	-8.48	-	-	93	211	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/Flo/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.389	49.03	Pk	31.9	-22.6	58.33	-	-	74	-15.67	67	344	V
4	* 2.389	41.28	RMS	31.9	-22.6	50.58	54	-3.42	-	-	67	344	V
1	* 2.39	47.7	Pk	32	-22.6	57.1	-	-	74	-16.9	67	344	V
3	* 2.39	37.06	RMS	32	-22.6	46.46	54	-7.54	-	-	67	344	V

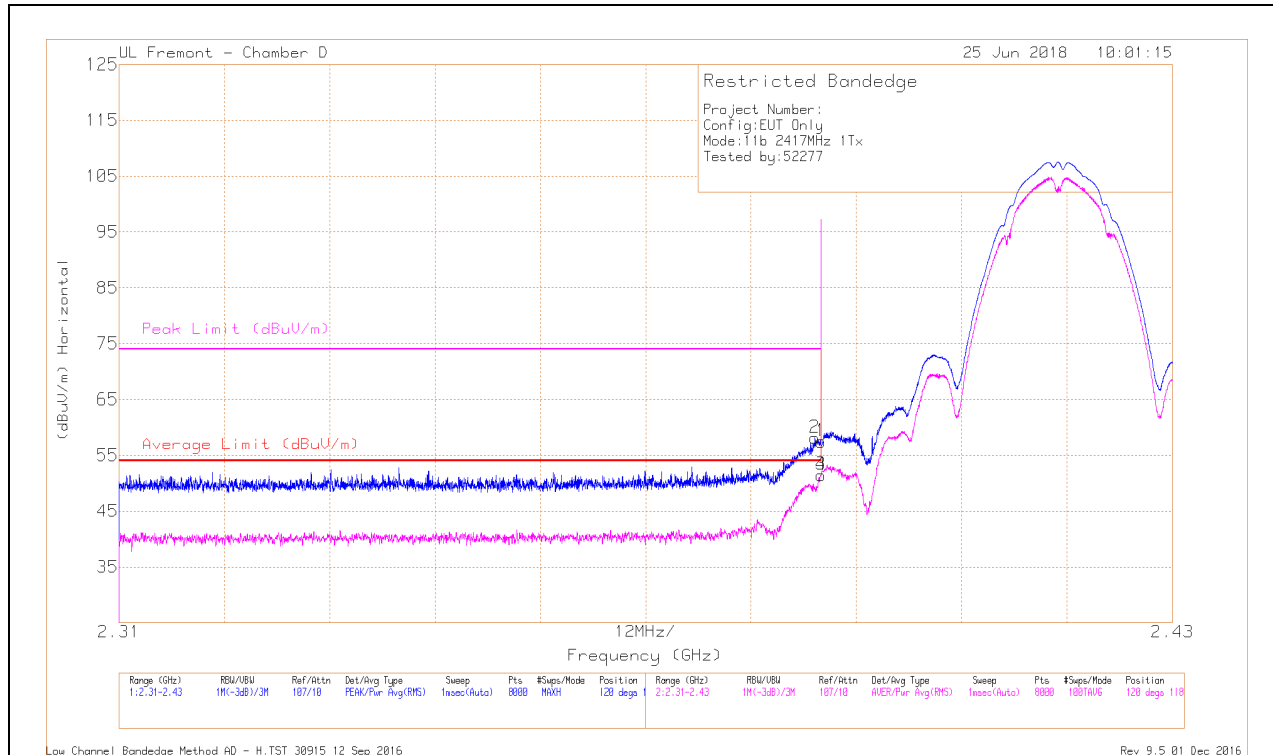
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (LOW CHANNEL, CH 2)

HORIZONTAL RESULT



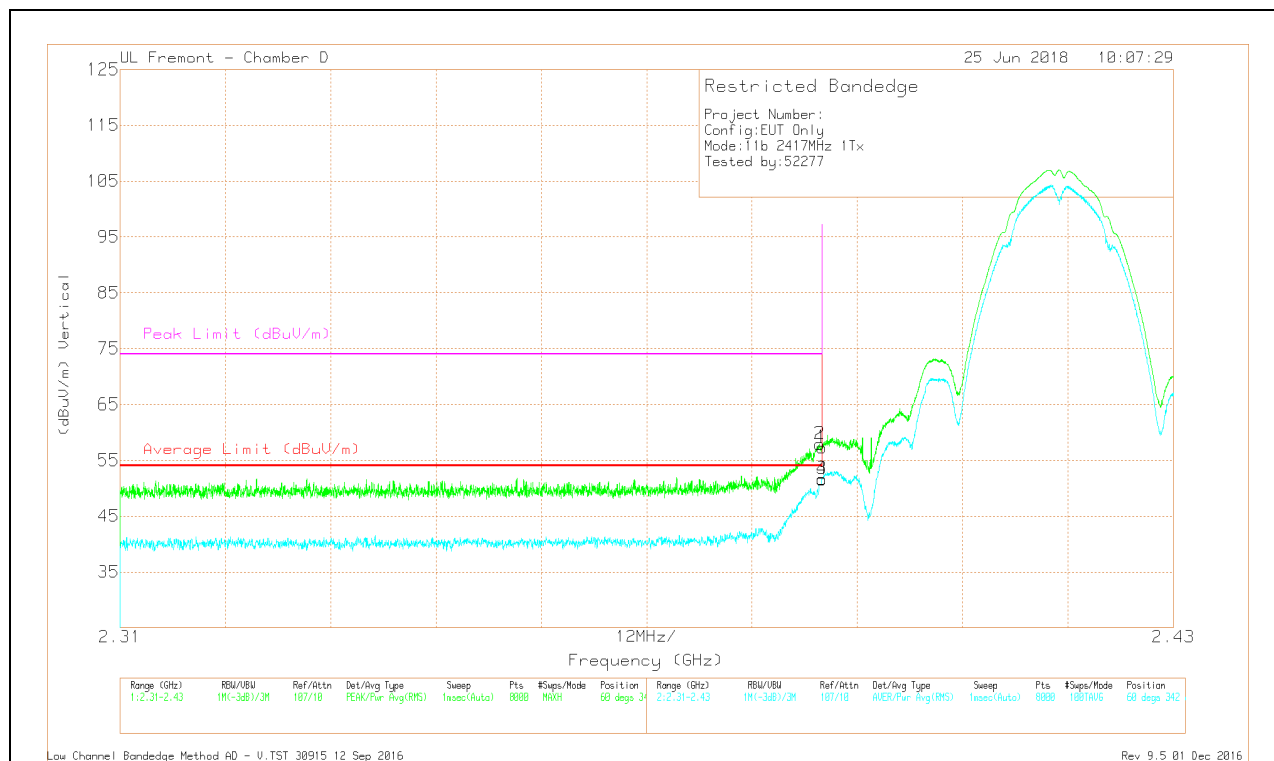
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.389	46.73	Pk	31.9	-20.5	58.13	-	-	74	-15.87	120	118	H
1	* 2.39	46.08	Pk	31.9	-20.5	57.48	-	-	74	-16.52	120	118	H
3	* 2.39	40.08	RMS	31.9	-20.5	51.48	54	-2.52	-	-	120	118	H
4	* 2.39	40.04	RMS	31.9	-20.5	51.44	54	-2.56	-	-	120	118	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 T136 (dBm)	Ampl/Cbl/F Itr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	45.86	Pk	31.9	-20.5	57.26	-	-	74	-16.74	60	342	V
2	* 2.39	46.5	Pk	31.9	-20.5	57.9	-	-	74	-16.1	60	342	V
3	* 2.39	40.25	RMS	31.9	-20.5	51.65	54	-2.35	-	-	60	342	V
4	* 2.39	40.17	RMS	31.9	-20.5	51.57	54	-2.43	-	-	60	342	V

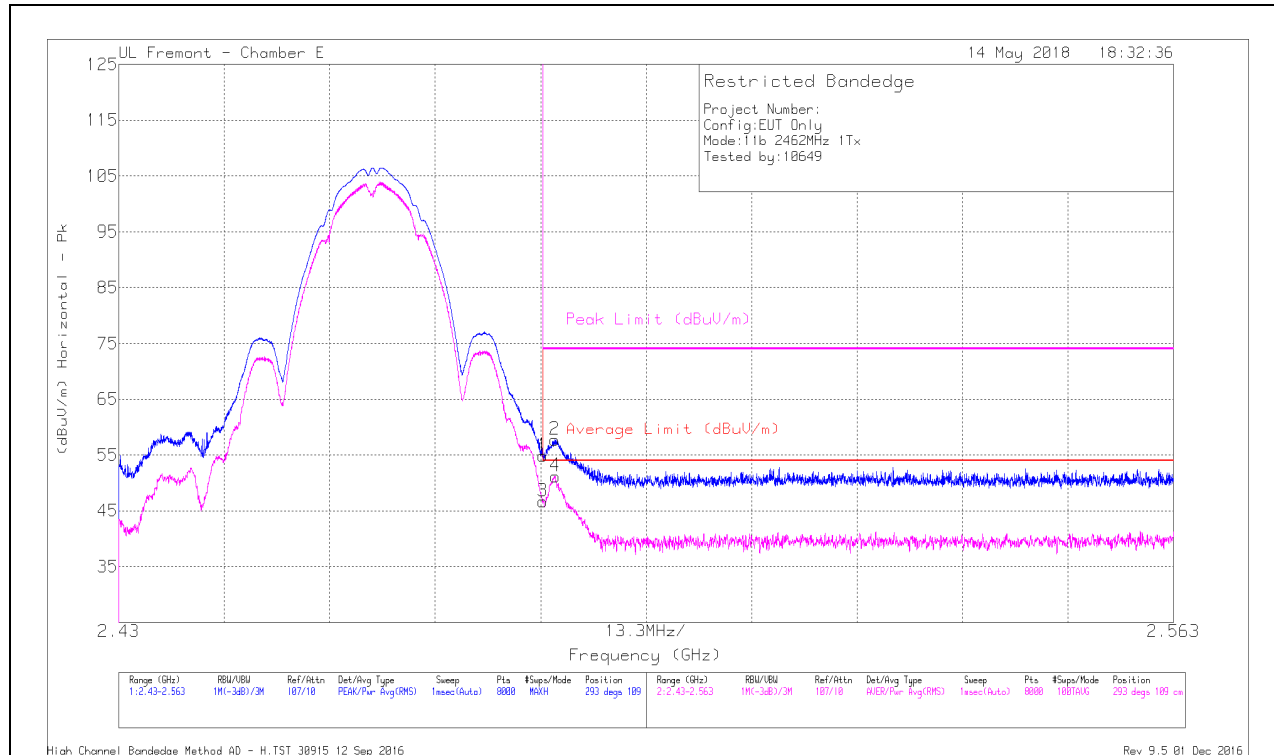
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 11)

HORIZONTAL RESULT



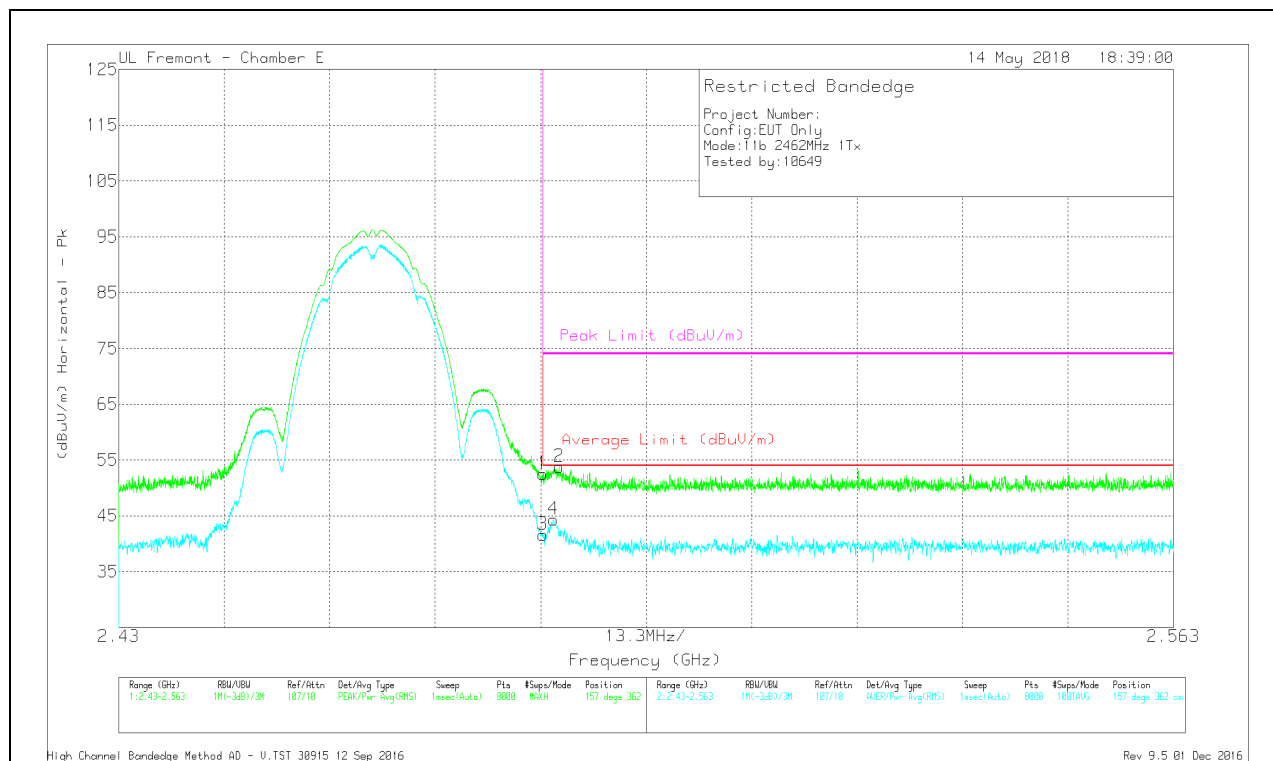
Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AF T346 (dB/m)	Ampl/Cbl/F Itr/Pad (dB)	Corrected Reading (dBUV/m)	Average Limit (dBUV/m)	Margin (dB)	Peak Limit (dBUV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	45.07	Pk	32.1	-22.3	54.87	-	-	74	-19.13	293	109	H
3	* 2.484	36.86	RMS	32.1	-22.3	46.66	54	-7.34	-	-	293	109	H
2	* 2.485	48.02	Pk	32.1	-22.4	57.72	-	-	74	-16.28	293	109	H
4	* 2.485	41.52	RMS	32.1	-22.4	51.22	54	-2.78	-	-	293	109	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	42.72	Pk	32.1	-22.3	52.52	-	-	74	-21.48	157	362	V
3	* 2.484	31.79	RMS	32.1	-22.3	41.59	54	-12.41	-	-	157	362	V
4	* 2.485	34.59	RMS	32.1	-22.4	44.29	54	-9.71	-	-	157	362	V
2	* 2.486	44.08	Pk	32.1	-22.4	53.78	-	-	74	-20.22	157	362	V

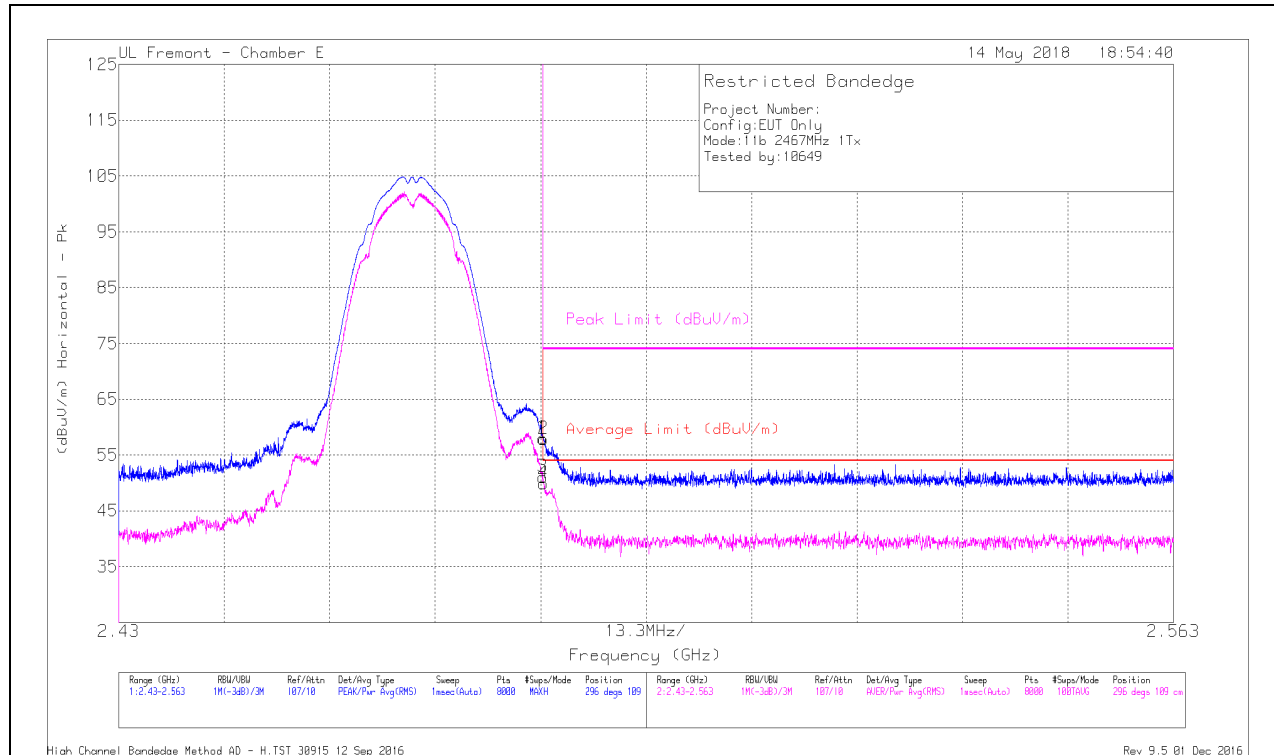
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 12)

HORIZONTAL RESULT



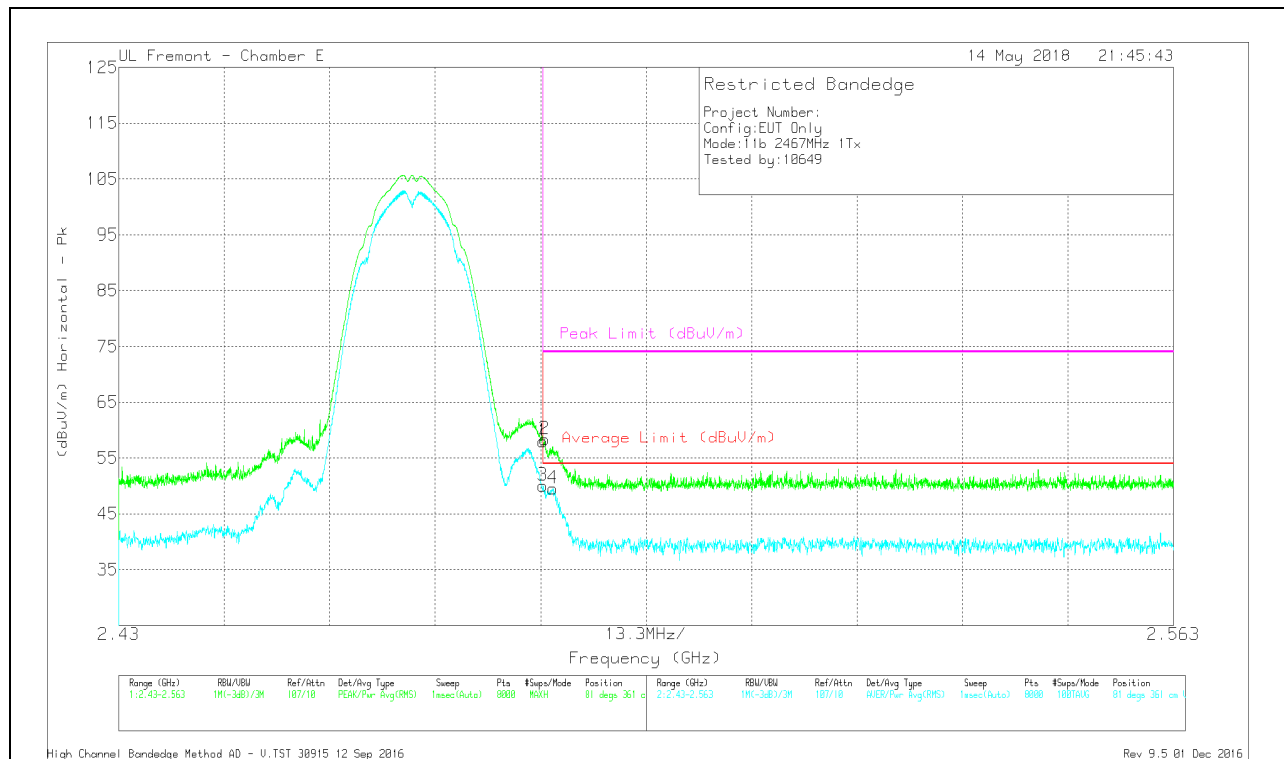
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Ampl/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	48.23	Pk	32.1	-22.3	58.03	-	-	74	-15.97	296	109	H
2	* 2.484	48.02	Pk	32.1	-22.3	57.82	-	-	74	-16.18	296	109	H
3	* 2.484	41.2	RMS	32.1	-22.3	51	54	-3	-	-	296	109	H
4	* 2.484	40.12	RMS	32.1	-22.3	49.92	54	-4.08	-	-	296	109	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Ampl/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	48.17	Pk	32.1	-22.3	57.97	-	-	74	-16.03	81	361	V
2	* 2.484	48.53	Pk	32.1	-22.3	58.33	-	-	74	-15.67	81	361	V
3	* 2.484	40.25	RMS	32.1	-22.3	50.05	54	-3.95	-	-	81	361	V
4	* 2.485	39.82	RMS	32.1	-22.4	49.52	54	-4.48	-	-	81	361	V

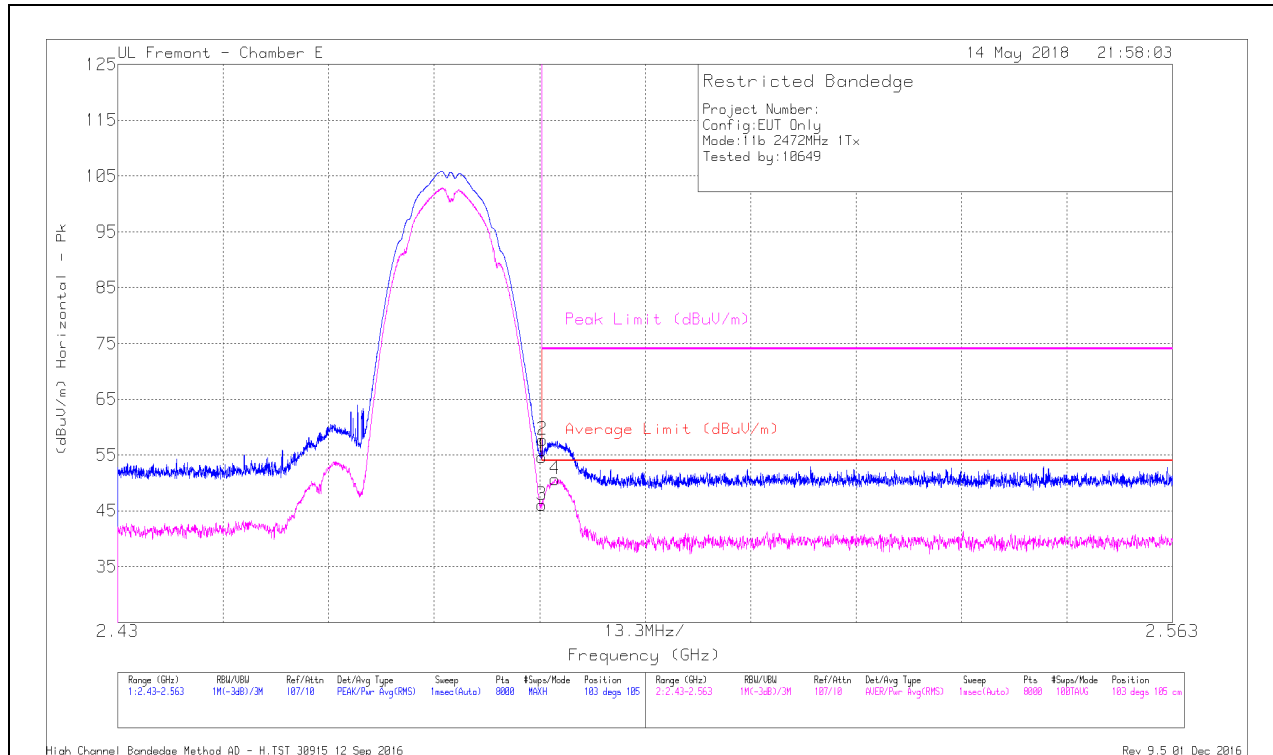
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 13)

HORIZONTAL RESULT



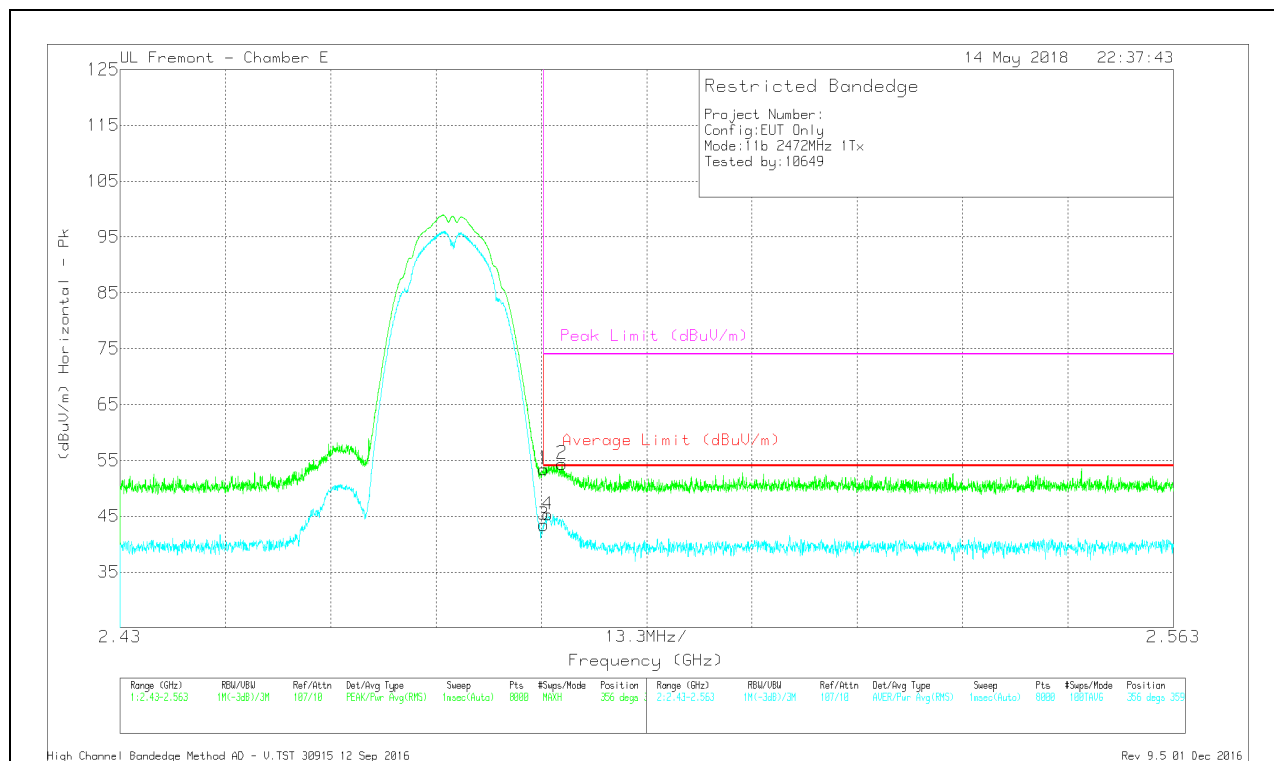
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Ampl/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	44.79	Pk	32.1	-22.3	54.59	-	-	74	-19.41	103	105	H
2	* 2.484	47.99	Pk	32.1	-22.3	57.79	-	-	74	-16.21	103	105	H
3	* 2.484	36.26	RMS	32.1	-22.3	46.06	54	-7.94	-	-	103	105	H
4	* 2.485	40.97	RMS	32.1	-22.4	50.67	54	-3.33	-	-	103	105	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	43.61	Pk	32.1	-22.3	53.41	-	-	74	-20.59	356	359	V
3	* 2.484	33.65	RMS	32.1	-22.3	43.45	54	-10.55	-	-	356	359	V
4	* 2.484	35.52	RMS	32.1	-22.3	45.32	54	-8.68	-	-	356	359	V
2	* 2.486	44.71	Pk	32.1	-22.4	54.41	-	-	74	-19.59	356	359	V

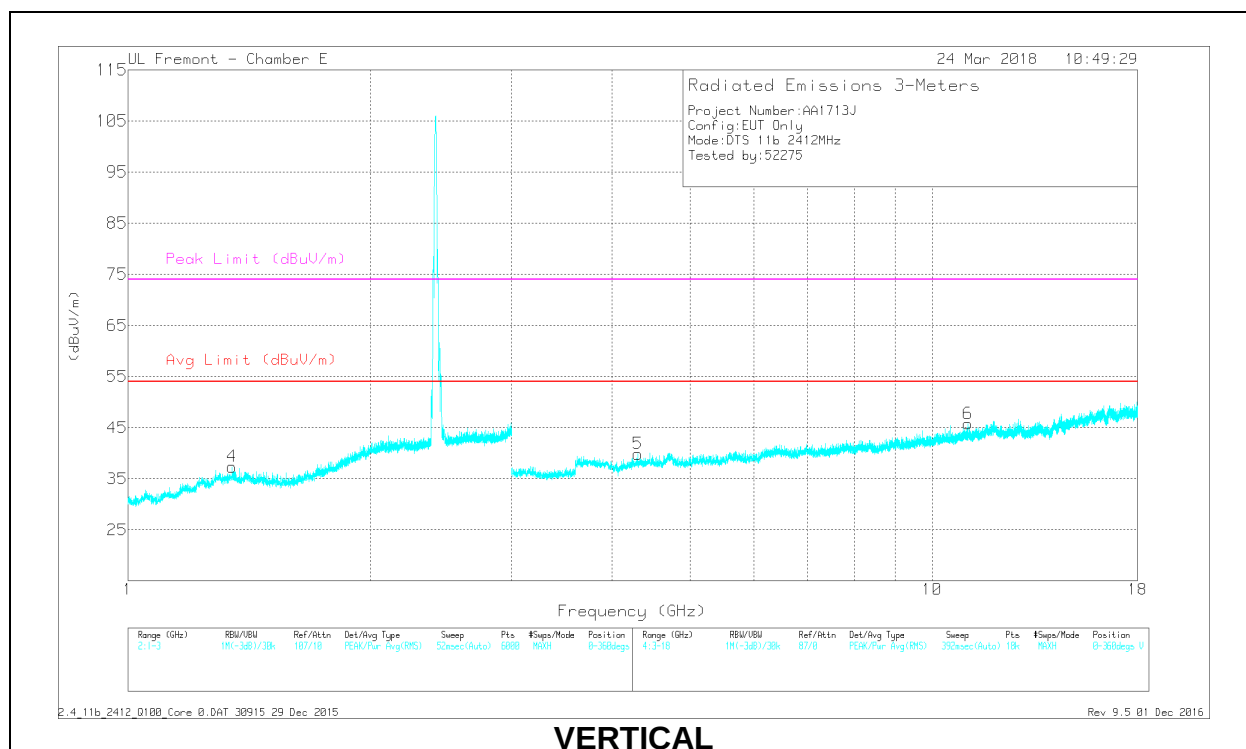
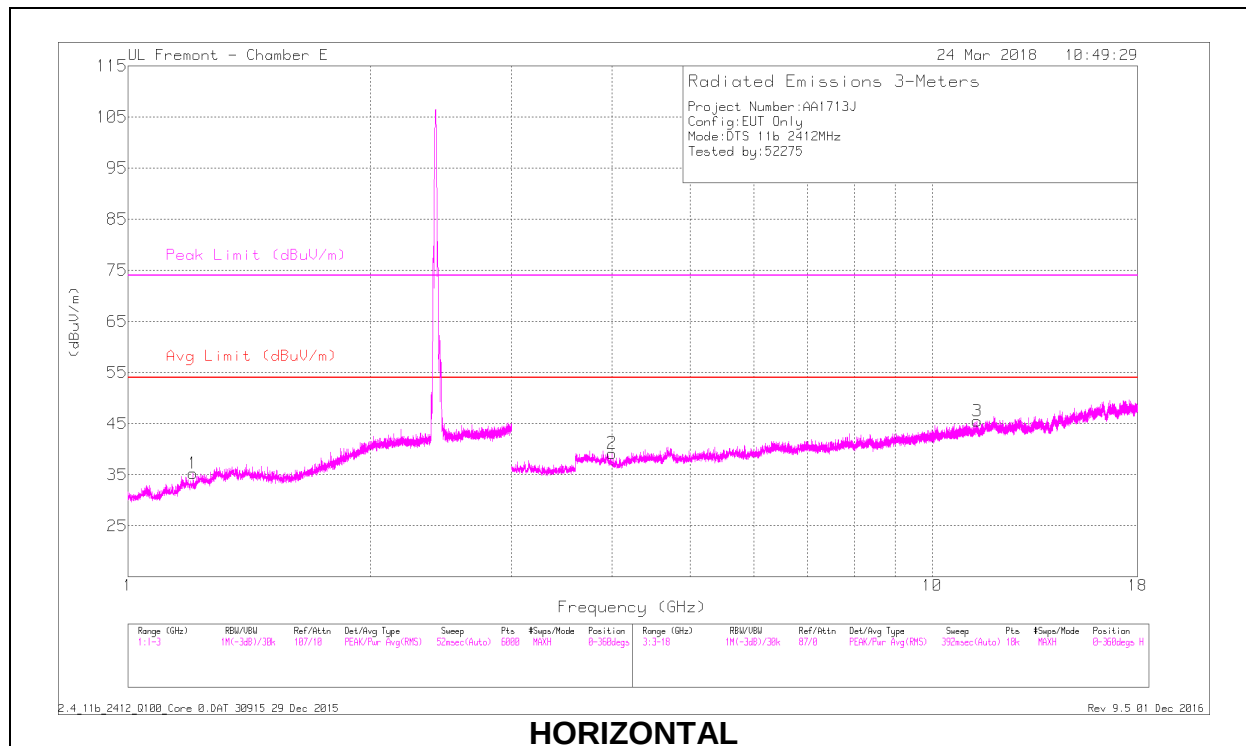
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, CH 1 RESULTS



RADIATED EMISSIONS

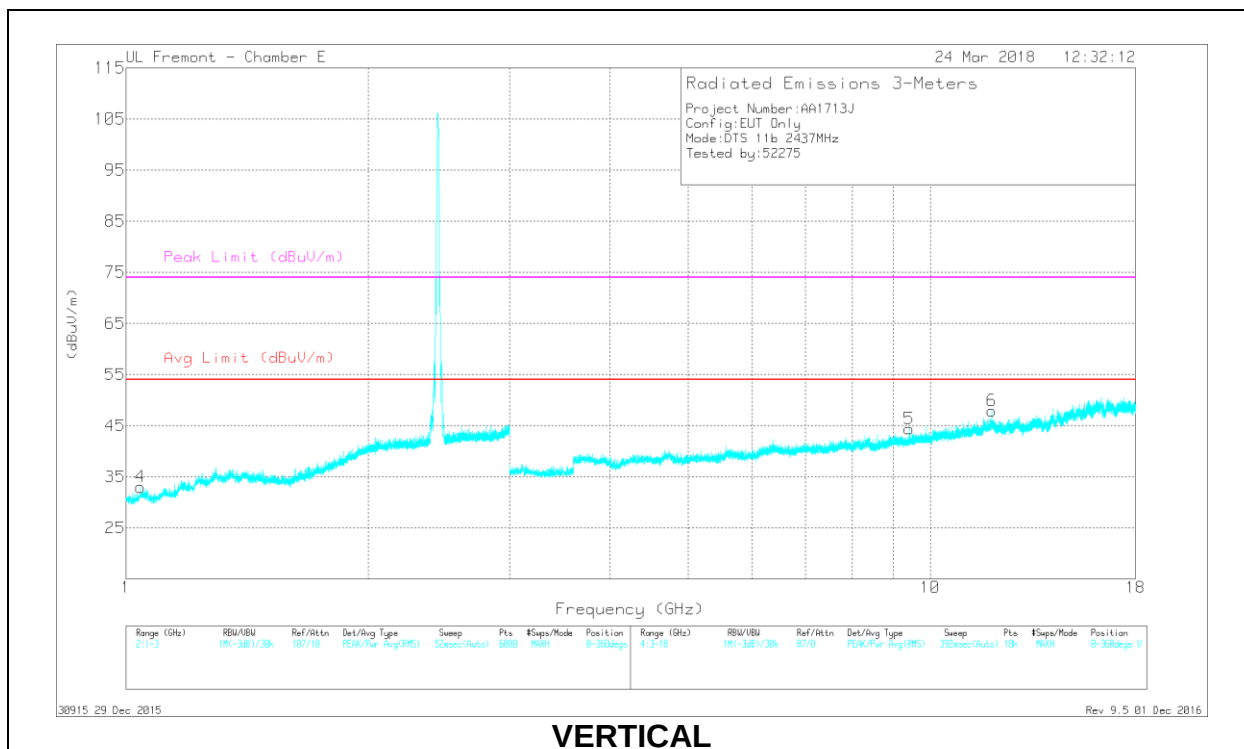
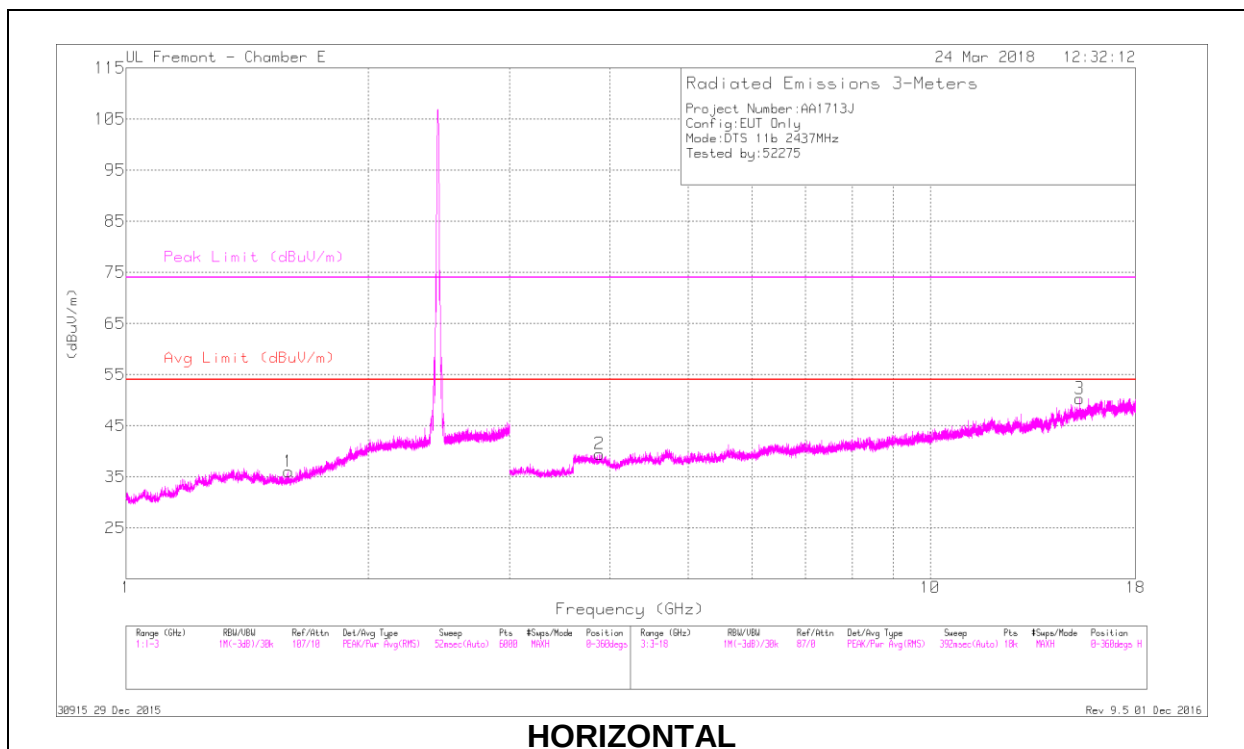
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.206	36.46	PK2	28	-22.2	42.26	-	-	74	-31.74	138	293	H
	* 1.203	19.05	MAv1	28	-22.2	24.85	54	-29.15	-	-	138	293	H
4	* 1.348	36.96	PK2	28.8	-21.3	44.46	-	-	74	-29.54	43	215	V
	* 1.349	19.93	MAv1	28.8	-21.4	27.33	54	-26.67	-	-	43	215	V
2	* 3.998	41.64	PK2	33.7	-29.3	46.04	-	-	74	-27.96	138	122	H
	* 3.999	29.18	MAv1	33.7	-29.3	33.58	54	-20.42	-	-	138	122	H
3	* 11.373	34.96	PK2	38.5	-22.2	51.26	-	-	74	-22.74	81	317	H
	* 11.372	21.74	MAv1	38.5	-22.1	38.14	54	-15.86	-	-	81	317	H
5	* 4.305	41.54	PK2	33.9	-29.5	45.94	-	-	74	-28.06	356	251	V
	* 4.306	29.21	MAv1	33.9	-29.5	33.61	54	-20.39	-	-	356	251	V
6	* 11.069	37.05	PK2	38.5	-23.1	52.45	-	-	74	-21.55	99	114	V
	* 11.069	24.27	MAv1	38.5	-23.1	39.67	54	-14.33	-	-	99	114	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 T346 (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	* 1.595	36.94	PK2	27.2	-20.6	43.54	-	-	74	-30.46	201	255	H
	* 1.593	18.65	MAv1	27.2	-20.7	25.15	54	-28.85	-	-	201	255	H
4	* 1.044	37.38	PK2	26.4	-23.2	40.58	-	-	74	-33.42	353	276	V
	* 1.043	20.88	MAv1	26.4	-23.2	24.08	54	-29.92	-	-	353	276	V
2	* 3.88	42.13	PK2	33.7	-29.9	45.93	-	-	74	-28.07	343	293	H
	* 3.879	29.69	MAv1	33.7	-29.9	33.49	54	-20.51	-	-	343	293	H
5	* 9.414	37.96	PK2	37.2	-24.9	50.26	-	-	74	-23.74	210	185	V
	* 9.413	24.93	MAv1	37.2	-25	37.13	54	-16.87	-	-	210	185	V
6	* 11.928	36.44	PK2	39.5	-21.9	54.04	-	-	74	-19.96	221	118	V
	* 11.93	23.78	MAv1	39.5	-21.9	41.38	54	-12.62	-	-	221	118	V
3	15.337	33.2	PK2	40.8	-20.7	53.3	-	-	-	-	327	130	H

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average